

**LONG-TERM LEASE AND CONCESSION AGREEMENT FOR
THE UNIVERSITY OF IOWA UTILITY SYSTEM**

dated as of

December __, 2019

by and among

BOARD OF REGENTS, STATE OF IOWA,

UNIVERSITY OF IOWA

and

UNIVERSITY OF IOWA ENERGY COLLABORATIVE LLC

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LONG-TERM LEASE AND CONCESSION AGREEMENT FOR THE UNIVERSITY OF IOWA UTILITY SYSTEM

THIS LONG-TERM LEASE AND CONCESSION AGREEMENT FOR THE UNIVERSITY OF IOWA UTILITY SYSTEM (this “Agreement”) is made and entered into as of this ____ day of December, 2019 by and among the Board of Regents, State of Iowa (the “BOR”), the University of Iowa (the “University”) and University of Iowa Energy Collaborative LLC, a Delaware limited liability company (the “Concessionaire”).

RECITALS

WHEREAS, the University has an ongoing commitment to sustainable operations and pursuing creative solutions to reduce its impact on the environment, and has articulated this commitment in its 2020 Vision, and the University views the Transaction (as defined herein) as an opportunity to further this commitment; and

WHEREAS, the University and the BOR, as applicable, have established a Utility System (as defined herein) and owns or leases (as applicable) the Utility Facilities and the Utility System Assets (both, as defined herein); and

WHEREAS, the University, as part of the procurement process described in the University of Iowa P3 Utility System Transaction – Second Amended and Restated Request for Proposal Submission Process Letter dated October 4, 2019 (as amended or modified, the “Request for Proposals”) has selected the Concessionaire as the winning bidder for the long-term lease and concession of the Utility System as described herein in part because of the Concessionaire’s commitments with respect to the existing University Utility System Employees (as defined herein) and to being capable of operating the Utility System without coal after January 1, 2025, as described in more detail herein and in the Concessionaire’s response to the Request for Proposals;

WHEREAS, the Concessionaire desires to lease (or sublease, as applicable) the Utility Facilities from the University and the BOR, as applicable, and receive an exclusive grant from the University to operate, maintain, possess, control and improve the Utility System for the Term (as defined herein) of this Agreement, all as hereinafter provided; and

WHEREAS, the University has determined that the engagement of the Concessionaire under this Agreement will, among other things, further its sustainability goals, and permit for the more efficient operation of the Utility System, and therefore, along with the BOR, as applicable, desires to lease (or sublease, as applicable) the Utility Facilities to the Concessionaire and provide the Concessionaire the exclusive right to operate, maintain, possess, control and improve the Utility System for the Term of this Agreement, all as hereinafter provided; and

WHEREAS, the Concessionaire agrees to lease (or sublease, as applicable) the Utility Facilities and to operate, maintain, possess, control and improve the Utility System in accordance with the provisions of this Agreement, including the Performance Standards (as defined herein); and

WHEREAS, the Concessionaire agrees to provide the Utility Services (as defined herein) to the University and to engage in the Utility System Operations pursuant to the terms and conditions of this Agreement;

NOW THEREFORE, for and in consideration of the promises, the mutual covenants, representations, warranties and agreements contained herein and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties (as defined herein) covenant and agree as follows:

ARTICLE 1 DEFINITIONS AND INTERPRETATION

Section 1.1. Definitions. Unless otherwise specified or the context otherwise requires, for the purposes of this Agreement the following terms have the following meanings:

“AA-Compensation” has the meaning ascribed thereto in Section 14.1(b).

“AA-Dispute Notice” has the meaning ascribed thereto in Section 14.1(c).

“AA-Notice” has the meaning ascribed thereto in Section 14.1(c).

“AA-Preliminary Notice” has the meaning ascribed thereto in Section 14.1(c).

“AAA” means the American Arbitration Association.

“Actual Knowledge of the University” means the actual, current knowledge of the University’s Senior Vice President for Finance and Operations, the University’s Chief Financial Officer, the University’s Assistant Vice President of Facilities Management or the University’s Director of Utilities on any date which a relevant representation or warranty is made, with the duty for each of the foregoing to inquire of his or her direct reports within 5 Business Days prior to the date of such representation or warranty regarding the relevant matter, but without any other duty of inquiry or investigation.

“Additional Coverages” has the meaning ascribed thereto in Section 13.3(m).

“Adjusted for Inflation” means adjusted by the arithmetic average of the percentage increases, if any, or decreases, if any, in the CPI Index during the most recent adjustment period as specified herein.

“Adverse Action” has the meaning ascribed thereto in Section 14.1(a).

“Affiliate”, when used to indicate a relationship with a specified Person, means a Person that, directly or indirectly, through one or more intermediaries (i) has a 50% or more voting or economic interest in such specified Person or (ii) controls, is controlled by or is under common control with (which shall include, with respect to a managed fund or trust, the right to direct or cause the direction of the management and policies of such managed fund or trust as manager, advisor, supervisor, sponsor or trustee pursuant to relevant contractual arrangements) such specified Person, provided that a Person shall be deemed to be controlled by another Person if

controlled in any manner whatsoever that results in control in fact by that other Person (or that other Person and any Person or Persons with whom that other Person is acting jointly or in concert), whether directly or indirectly and whether through share ownership, a trust, a contract or otherwise (for purposes of this definition, a managed fund or trust shall be deemed to be an Affiliate of the Person managing, supervising, sponsoring or advising such fund or trust and a limited partner in a managed fund or trust shall be deemed to be an Affiliate of such fund or trust and of the Person managing, supervising, sponsoring or advising such fund or trust).

“Agreement” has the meaning ascribed thereto in the preamble hereto (including all Schedules referred to herein), as amended from time to time in accordance with the terms hereof.

“Approved Five-Year Plan” means the Five-Year Plan then in effect pursuant to Section 7.2.

“Approval”, “Approved”, “Approves”, “Approved by the University” and similar expressions mean approved or consented to by the University in accordance with the provisions of Section 1.15.

“Assignment and Assumption Agreement” has the meaning ascribed thereto in Section 19.8(c).

“Assumed Liabilities” has the meaning ascribed thereto in Section 3.2(d).

“Audit and Review” and similar expressions mean, with respect to any matter or thing relating to the Utility System, the Utility System Operations or this Agreement, the performance by or on behalf of the University of such reviews, investigations, inspections and audits relating to such matter or thing as the University may reasonably determine to be necessary in the circumstances, conducted in each case in accordance with Prudent Industry Practices, if any, or as required by Law, but in accordance with the provisions of this Agreement.

“Authorization” means any approval, certificate of approval, certification, authorization, consent, waiver, variance, exemption, declaratory order, exception, license, filing, registration, permit, franchise, notarization or other requirement of any Person that applies to the Utility System or is reasonably required from time to time for the Utility System Operations, including any of the foregoing issued, granted, given or otherwise made available by or under the authority of any Governmental Authority or pursuant to any applicable Law.

“Bank Rate” means SOFR (or any successor rate thereto) as reported in the *Wall Street Journal* (or any successor thereof).

“Benchmark Amount” has the meaning ascribed thereto in Schedule 5.

“Bid Date” means November 5, 2019.

“Boiler MACT Authorizations” has the meaning ascribed thereto in Section 11.13.

“BOR” has the meaning ascribed thereto in the preamble to this Agreement.

“Breakage Costs” means any breakage costs, make-whole premium payments, termination payments or other prepayment amounts (including debt premiums and interest rate hedge termination costs) that are required to be paid by the Concessionaire with respect to Leasehold Mortgage Debt as a result of the early repayment (including, following acceleration) of such Leasehold Mortgage Debt prior to its scheduled maturity date.

“Business Day” means any Day that is neither a Saturday, a Sunday nor a Day observed as a holiday by the University; provided, that solely with respect to the timing of any payment obligation under this Agreement, a Business Day shall also not be a Day on which banks that are members of the United States federal reserve system are permitted or required to be closed.

“Campus-Wide Permits” has the meaning ascribed thereto in Section 11.13.

“Capital Improvement” means any improvement to or replacement or expansion of the components of the Utility Facilities or Tunnels that is capital in nature, as determined in accordance with GAAP.

“Capital Recovery Amount” has the meaning ascribed thereto in Schedule 5.

“Capped O&M Ceiling” has the meaning ascribed thereto in Schedule 5.

“Capped O&M Costs” means the following specifically identified out-of-pocket operating and maintenance costs and expenses incurred by the Concessionaire (which costs and expenses shall include payments due and payable by the Concessionaire to the Operator or other Contractors pursuant to an Operating Agreement or similar agreement) or the Operator in operating the Utility System and complying with their respective obligations under this Agreement, without duplication: (i) the charges as described in Section 3.9(a); (ii) the professional expenses, salaries, employee benefits and bonuses paid or granted to employees and contractors of the Concessionaire or the Operator to perform any of the Utility System Operations and including the costs of issuing and administering requests for proposals in connection with the procurement of subcontractors; (iii) the cost of the supplies (other than Supplies) reasonably necessary to operate and manage the Utility System and used exclusively in connection therewith, specifically, (1) office supplies, (2) motor vehicle supplies, (3) safety supplies, (4) uniforms, (5) computer supplies, (6) telecommunication equipment, (7) measuring and testing equipment and instruments, (8) radios, pagers, cell phones and similar communication equipment, (9) gas containers and (10) hand tools; (iv) postage and delivery charges; (v) long-distance and local telephone call charges; (vi) internet access charges; (vii) repair and maintenance of any of the Utility System Assets or Utility Facilities to the extent incurred in accordance with Prudent Industry Practices, including the cost to dispose of ash and other waste products generated by the Utility System Operations and the cost to operate and maintain the Utility System Light Fixtures; (viii) legal fees directly related to the operation of the Utility System and specifically excluding legal fees associated with the negotiation of this Agreement, the Main Campus Water Treatment Plant Sublease or the Trademark License Agreement, any amendment or modification thereto or any dispute with the University in connection with this Agreement, the Main Campus Water Treatment Plant Sublease, the Trademark License Agreement, the Utility System Operations or the Transaction; (ix) design, energy auditing and engineering services (other than in connection with any University

Directive); (x) janitorial services for the Utility Facilities; (xi) seminar and training costs for employees of the Concessionaire or the Operator; (xii) service vehicles exclusively used in the performance of Utility System Operations; (xiii) insurance charges for the insurance that the Concessionaire is required to carry pursuant to Article 13; (xiv) lease and rental charges other than any payments paid by the Concessionaire to the University for the lease of the Utility System, but Capped O&M Costs may include the rental charges, including additional rental charges for common area maintenance expenses, real estate taxes and other items, for which the Concessionaire is obligated under Section 3.30(c); (xv) the costs of performing inspections required by the Performance Standards; (xvi) the costs incurred in connection with utility coordination pursuant to Section 3.9(b); (xvii) the costs of compliance with the Campus-Wide Permits to the extent applicable to the Utility System; (xviii) other selling, general and administrative expenses but only to the extent that such expenses would be properly included in a cost of service rate regulated by the Federal Energy Regulatory Commission and are not Uncapped O&M Costs; (xix) payments to the Operator pursuant to the agreement between the Concessionaire and the Operator to operate the Utility System pursuant to this Agreement; (xx) the costs for the Operator to be a member of any regulatory program, to the extent required by Law or this Agreement; (xxi) the costs for any Authorizations for the Concessionaire or Operator to perform the Utility System Operations, to the extent required by Law including those costs paid to the University for an Authorization that the University uses to pay the applicable Governmental Authority; (xxii) the professional fees and expenses relating to the preparation of audited financial statements of the Concessionaire for purposes of Section 8.1(c) (provided that, for the first 3 Fiscal Years after Closing, this cost shall not be included in the calculation of the Capped O&M Index but will instead be added to the Capped O&M Index in accordance with Section 3.6); and (xxiii) the cost and expense of maintaining the credit rating required by Section 3.6 (provided that, for the first 3 Fiscal Years after Closing, this cost shall not be included in the calculation of the Capped O&M Index but will instead be added to the Capped O&M Index in accordance with Section 3.6); provided that, in no event, shall Capped O&M Costs include any costs or expenses incurred by the Concessionaire or the Operator that result from the negligence, violation of Law or willful misconduct of the Concessionaire or the Operator.

“Capped O&M Index” has the meaning ascribed thereto in Schedule 5.

“Cash Deposit” has the meaning ascribed thereto in Section 2.3(a).

“Casualty Cost” has the meaning ascribed thereto in Section 13.4(a)(ii).

“Change in Control” means, with respect to any Person, whether accomplished through a single transaction or a series of related or unrelated transactions and whether accomplished directly or indirectly, any of (i) a change in ownership so that 50% or more of the direct or indirect voting or economic interests in such Person is transferred to a Person or group of Persons acting in concert, (ii) the power directly or indirectly to direct or cause the direction of management and policy of such Person, whether through ownership of voting securities, by contract, management agreement, or common directors, officers or trustees or otherwise, is transferred to a Person or group of Persons acting in concert or (iii) the merger, consolidation, amalgamation, business combination or sale of substantially all of the assets of such Person;

provided, however, that notwithstanding anything to the contrary set forth in this definition, none of the following shall constitute a Change in Control for the purposes of this Agreement:

- (a) Transfers of direct or indirect ownership interests in the Concessionaire between or among Persons that are majority-owned Affiliates of each other or Persons who are under common control, whether directly or indirectly and whether through share ownership, a trust, a contract or otherwise;
- (b) Transfers of equity of the Concessionaire or of the direct or indirect owners of the Concessionaire pursuant to bona fide open market transactions on the New York Stock Exchange, NASDAQ, London Stock Exchange, Toronto Stock Exchange or comparable U.S. or foreign securities exchange, including any such transactions involving an initial or “follow on” public offering of direct or indirect equity holders of the Concessionaire; provided that no Person (that is not an Equity Participant or its beneficial owner having ownership interests in the Concessionaire as of the date hereof) or group of Persons acting in concert (that is not an Equity Participant or its beneficial owner having ownership interests in the Concessionaire as of the date hereof) acquires securities such that such Person or group of Persons beneficially owns more than 50% of the publicly traded securities of the Concessionaire;
- (c) Transfers of direct or indirect ownership interests in the Concessionaire by any Equity Participant or its beneficial owners to any Person so long as the Equity Participants or their respective beneficial owners having ownership interests in the Concessionaire as of the date hereof together retain, in the aggregate, (1) 50% or more of the direct or indirect voting or economic interests in the Concessionaire or (2) the power to directly or indirectly direct or cause the direction of management and policy of the Concessionaire, whether through ownership of voting securities, contract or management agreement or common directors, officers or trustees or otherwise;
- (d) Any change of ownership that is attributable to a lease, sublease, concession, management agreement, operating agreement or other similar arrangement that is subject and subordinate in all respects to the rights of the University under this Agreement so long as (1) no Change in Control occurs with respect to the Concessionaire, and (2) the Concessionaire remains obligated under this Agreement;
- (e) The creation of a trust or any other transaction or arrangement that is solely a transfer of all or part of the Concessionaire’s economic interest under this Agreement to another entity so long as (1) no Change in Control occurs with respect to the Concessionaire, and (2) the Concessionaire remains obligated under this Agreement;
- (f) Transfers of direct or indirect ownership interests in the Concessionaire (1) between or among investment funds, including funds that invest in infrastructure, and investors therein; provided that, following such Transfer, such

direct or indirect ownership interests remain under the same common ownership, management or control as existed prior to such Transfer, or (2) from investment funds, including infrastructure funds, or investors therein, to any Person; provided that such direct or indirect ownership interests, following the consummation of such Transfer, remain under the same management or control that existed prior to such Transfer, it being understood that ownership interests shall be deemed to be controlled by a Person if controlled in any manner whatsoever that results in control in fact, whether directly or indirectly, and whether through share ownership, a trust, a contract or otherwise; and

- (g) Mergers between an Equity Participant and a third party, provided that, immediately prior to such merger, the equity interests of both parties are publicly traded in open market transactions on the New York Stock Exchange, NASDAQ, London Stock Exchange, Toronto Stock Exchange or comparable U.S. or foreign securities exchange.

“Chilled Water Plant 1” means the building identified on Part 1 of Schedule 3 and associated improvements installed therein.

“Chilled Water Plant 2” means the building identified on Part 2 of Schedule 3 and associated improvements installed therein.

“Claim” means any demand, action, cause of action, suit, proceeding, arbitration, claim, judgment or settlement or compromise relating thereto which may give rise to a right to a payment obligation under Section 12.1 or Section 12.2.

“Closing” has the meaning ascribed thereto in Section 2.2(a).

“Closing Consideration” has the meaning ascribed thereto in Section 2.1.

“Closing Date” has the meaning ascribed thereto in Section 2.2(a).

“Closing Deposit” has the meaning ascribed thereto in Section 2.3(a).

“Closing Period” means the period between the date hereof up to the Time of Closing.

“Code” means the Internal Revenue Code of 1986, as amended from time to time. Any reference in this Agreement to a particular provision of the Code shall be interpreted to include a reference to any corresponding provision of any successor statutes.

“Comparable Utility Systems” means with respect to any component of the Utility System, a utility system producing and/or delivering any of the Utilities (whether privately or publicly owned) that is located at a large university, is used in connection with providing such utility services to such university, its employees, customers and visitors and is reasonably comparable to the relevant component of the Utility System in terms of physical structure, capacity, utilization and the nature of the services provided, provided that the University and the Concessionaire may designate by written agreement one or more utility systems as “Comparable Utility Systems”.

“Compensation Calculation Date” means (i) every 3rd June 30 during the Term, commencing as of June 30, 2023, (ii) the date of removal of the Operator pursuant to Section 3.3(c)(ii), (iii) the first June 30 after any date on which one Party notifies the other Party that it, in good faith, believes that the Concession and KPI Compensation Balance would exceed \$5,000,000 if calculated on the date of such notice and (iv) the End Date.

“Compensation Calculation Measuring Period” means (i) with respect to the first Compensation Calculation Date, the period commencing on (a) the Closing Date, for Concession Compensation and (b) the Day immediately following the Post-Closing Transition Period, for KPI Compensation, and, in each case expiring on such Compensation Calculation Date, and (ii) with respect to each subsequent Compensation Calculation Date, the period between such Compensation Calculation Date and the immediately preceding Compensation Calculation Date.

“Compensation Event” means (i) subject to Article 5, the Concessionaire’s compliance with or the implementation of any University Directive or any modified or changed Performance Standard subject to Section 6.3(b), provided that it shall not be a Compensation Event if the costs or reduction in revenue incurred in connection therewith will be recovered by the Concessionaire pursuant to the calculation and payment of the Utility Fee; (ii) the occurrence of an Adverse Action; (iii) the occurrence of an event causing a delay described in the definition of “Delay Event” but only to the extent that the Utility Fee is reduced by a Delay Event caused by such event pursuant to Section 15.1(c); (iv) the occurrence of those certain events described under Section 3.7(a) and Section 3.7(e) which are expressly identified as requiring the payment of Concession Compensation; (v) the University distributing or permitting any third party to distribute on the University Campus, any Utility, except as permitted by Section 3.21; (vi) the Concessionaire incurring any Losses as a result of failing to obtain, or being unreasonably delayed in obtaining, or failing to promptly renew or maintain in good standing, an Authorization from the University that is necessary to comply with Law, despite the Concessionaire’s use of its reasonable best efforts to obtain, promptly renew or maintain in good standing such Authorization, and such failure or delay could not have been reasonably prevented by commercially reasonable technical, scheduling or other measures of the Concessionaire; (vii) any action of the Iowa Utilities Board or the Federal Energy Regulatory Commission or their successors, that subjects the Concessionaire to such agency’s regulatory jurisdiction due solely to the Utility System Operations performed in accordance with this Agreement and has a material adverse effect on the fair market value of the Concessionaire Interest (whether as a result of a decrease in the Utility Fee or other revenues or increased expenses that cannot be recovered pursuant to this Agreement or both), except where such action is in response to any act or omission on the part of the Concessionaire that is illegal (other than an act or omission rendered illegal by virtue of the agency’s action) or such action is otherwise permitted under this Agreement and such designation as a Compensation Event shall be the Concessionaire’s sole right and remedy with respect to any action by the Iowa Utilities Board or the Federal Energy Regulatory Commission (or their successors) subjecting a Person to its jurisdiction in connection with the Utility System; or (viii) the occurrence of any other event that under the terms of this Agreement expressly requires the payment of Concession Compensation.

“Concession Compensation” means any compensation payable by the University to the Concessionaire in order to restore the Concessionaire to the same economic position the Concessionaire would have enjoyed if the applicable Compensation Event had not occurred,

which Concession Compensation for any Compensation Calculation Date shall be equal to the sum of (i) all Losses for the applicable Compensation Calculation Measuring Period (including increased O&M Costs (which, for the avoidance of doubt, shall be regardless of the Capped O&M Ceiling) and financing costs but excluding any costs and expenses (including O&M Costs) that the Concessionaire is able to recover through the payment of the Utility Fee) plus (ii) the actual and estimated net losses of the Utility Fee for the applicable Compensation Calculation Measuring Period that is reasonably attributable to such Compensation Event; provided, however, that with respect to clause (ii), the amount of such actual and estimated net losses that may be claimed at any Compensation Calculation Date shall not exceed the amount of actual and estimated net losses of the Utility Fee suffered during, and attributable only to, such Compensation Calculation Measuring Period (including the inability to make Capital Improvements that the University had Approved); provided, further, that with respect to clause (ii), the amount of such actual and estimated net losses reasonably attributable to such Compensation Event and suffered during, and attributable only to, a future Compensation Calculation Measuring Period may be claimed as Concession Compensation for such future Compensation Calculation Measuring Period only during such future Compensation Calculation Measuring Period in accordance with Article 15. Concession Compensation, if any, shall be paid in accordance with Article 15 and shall not be subject to any limitations on the amount of the Utility Fee including the Capped O&M Ceiling. If the Concessionaire elects to provide its own capital for a Capital Improvement with respect to compliance with any Compensation Event that is not recoverable by the Concessionaire pursuant to the Utility Fee, then the Concession Compensation, shall, in addition to the components described above, take into account a return on such capital equal to the Return on Equity Factor.

“Concession and KPI Compensation Balance” means, at each Compensation Calculation Date, (i) Concession Compensation due and payable with respect to such Compensation Calculation Measuring Period pursuant to the terms of this Agreement less (ii) the sum of all KPI Compensation due and payable with respect to such Compensation Calculation Measuring Period pursuant to the terms of this Agreement (other than any KPI Compensation due and payable with respect to the Safety KPI), plus (iii) the Concession and KPI Compensation Balance (which may be negative) for the preceding Compensation Calculation Measuring Period if carried forward pursuant to Section 15.3(e).

“Concessionaire” has the meaning ascribed thereto in the preamble to this Agreement.

“Concessionaire Default” has the meaning ascribed thereto in Section 16.1(a).

“Concessionaire Interest” means the interest of the Concessionaire in the Utility System created by this Agreement and the rights and obligations of the Concessionaire under this Agreement.

“Concessionaire Required Coverages” has the meaning ascribed thereto in Section 13.1.

“Concessionaire’s Parent” shall mean the Person, if any, that directly owns, and only owns, 100% of the shares of capital stock, units, partnership or membership interests, other equity interests and equity securities, to the extent applicable, of the Concessionaire.

“Consent” means any approval, consent, ratification, waiver, exemption, franchise, license, permit, novation, certificate of occupancy or other authorization of any Person, including any Consent issued, granted, given or otherwise made available by or under the authority of any Governmental Authority or pursuant to any applicable Law.

“Contractor” means, with respect to a Person, any contractor with whom such Person contracts to perform work or supply materials or labor in relation to the Utility System, including any subcontractor of any tier, supplier or materialman directly or indirectly employed pursuant to a subcontract with a Contractor. For the avoidance of doubt, the Operator (if other than the Concessionaire) shall be a Contractor of the Concessionaire.

“Control Room” means that certain space located in the University Services Building identified and depicted on Schedule 23.

“CPI Index” means the “Consumer Price Index – Midwest Urban, All Items” (not seasonally adjusted) as published by the U.S. Department of Labor, Bureau of Labor Statistics; provided, however, that if the CPI Index is changed so that the base year of the CPI Index changes, the CPI Index shall be converted in accordance with the conversion factor published by the U.S. Department of Labor, Bureau of Labor Statistics; provided further, that if the CPI Index is discontinued or revised during the Term, such other index or computation with which it is replaced shall be used in order to obtain substantially the same result as would be obtained if the CPI Index had not been discontinued or revised.

“Credit Rating Agencies” means Standard & Poor’s Rating Services, Fitch Investors Service, Inc., Moody’s Investor Services and Kroll Bond Rating Agency, Inc., or their successors or Affiliates, provided that if any of the foregoing and any of their successors cease to exist, the University shall, by written notice to the Concessionaire, identify other credit rating agencies as the “Credit Rating Agencies” that, at such time, are Nationally Recognized Statistical Rating Organizations as determined and defined by the United States Securities and Exchange Commission or their equivalents.

“Day” means a calendar day, beginning at midnight in the central time zone of the United States coinciding with the calendar day.

“Defending Party” has the meaning ascribed thereto in Section 12.4(c).

“Delay Event” means (i) an event of Force Majeure that interrupts, limits or otherwise adversely affects the performance of the Concessionaire’s obligations hereunder or the Concessionaire’s use of all or any material part of the Utility System; (ii) a failure to obtain, or delay in obtaining, any Authorization from a Governmental Authority (provided that such failure or delay could not have been reasonably prevented by technical and scheduling measures or other reasonable measures of the Concessionaire); (iii) the enactment of a new Law or the modification, amendment or change in enforcement or interpretation of a Law (including a change in the application or implementation thereof by any Governmental Authority) arising after the Setting Date; (iv) a delay caused by the performance of works (including the activities authorized by Section 3.7) carried out by the University or at its direction or, for purposes of Delay Events only (and not Compensation Events), by any other Person not acting under the

authority or direction of the Concessionaire or the Operator; (v) a delay caused by a failure by the University to perform or observe any of its covenants or obligations under this Agreement; (vi) a delay caused by the presence in, on, under, over or around the Utility System of Hazardous Substances, which, in each case, results in or would result in a delay or interruption in the performance by the Concessionaire of any obligation under this Agreement and which was not caused by the Concessionaire, the Operator or any of their respective Representatives; (vii) a delay in providing the Utility Services caused by the failure of a third party or the University to provide any of the inputs into the Utility System that would be included in the definition of “Supplies”; (viii) subject to Section 9.4(a), a delay caused by a breach by the University of its representations and warranties set forth herein; (ix) a writ, decree or injunction that precludes or prevents the performance of the Concessionaire’s obligations hereunder or the Concessionaire’s use of all or any material part of the Utility System; (x) the discovery at or about the site of construction required or permitted to be undertaken pursuant to this Agreement of legally protected plant or animal species or archaeological, paleontological or cultural resources; (xi) the failure of the University to enforce an obligation under an Unassigned Contract; or (xii) a written notice or direction from a Governmental Authority specifically requiring the Concessionaire to cease all or a material part of the Utility System Operations due to a failure to comply with applicable Law and such failure is because the Utility System Operations are not in compliance with Law due directly and primarily to the fact that the University unreasonably withheld its Approval to a Capital Improvement or Material Change that, if Approved, would have caused Utility System Operations to comply with the relevant Law to which such notice or direction from a Governmental Authority relates. For the avoidance of doubt, a Delay Event shall not include any event of which the consequence is otherwise specifically dealt with in this Agreement or arises by reason of (A) the negligence or intentional misconduct of the Concessionaire, the Operator or any of their respective Representatives, (B) any act or omission by the Concessionaire or its Representatives in breach of the provisions of this Agreement, (C) any strike, labor dispute or other labor protest involving any Person retained, employed or hired by the Concessionaire or its Representatives to supply materials or services for or in connection with the Utility System Operations or any strike, labor dispute or labor protest pertaining to the Concessionaire, in all cases to the extent that such strike, dispute or protest (1) is not of general application and (2) is caused by or attributable to any act (including any pricing or other practice or method of operation) or omission of the Concessionaire or its Representatives or (D) lack or insufficiency of funds or failure to make payment of monies or provide required security on the part of the Concessionaire, unless such lack or insufficiency of funds or such failure is caused by another relevant Delay Event.

“Delay Event Remedy” has the meaning ascribed thereto in Section 15.1(d).

“Delay Event Remedy Dispute Notice” has the meaning ascribed thereto in Section 15.1(e).

“Delay Event Remedy Notice” has the meaning ascribed thereto in Section 15.1(e).

“Depository” means a savings bank, a savings and loan association or a commercial bank or trust company which would qualify as an Institutional Lender, designated by the Concessionaire, that enters into an agreement with the Concessionaire to serve as depository pursuant to this Agreement, provided that such Depository shall have an office, branch, agency

or representative located in at least one of the City of Iowa City, Iowa; the City of Des Moines, Iowa; the City of Chicago, Illinois; the City of Minneapolis, Minnesota; or the City of St. Paul, Minnesota; provided, however, that so long as a Leasehold Mortgage is in effect, the Depositary under Section 13.4 shall be the institution acting as the collateral agent or depositary under the financing secured by such Leasehold Mortgage, whether or not it has an office, branch, agency or representative located in the City of Iowa City, Iowa.

“Designated Senior Person” means such individual who is designated as such from time to time by each Party for the purposes of Article 18 by written notice to the other Party, which may be changed at any time by written notice from such Party to the other Party. Initially, the Designated Senior Person for the University will be the University’s Senior Vice President for Finance and Operations, and the Designated Senior Person for the Concessionaire will be André Canguçu.

“Direct Claim” means any Claim by an Obligee against an Obligor that does not result from a Third Party Claim.

“Disclosure Schedules” means the following Schedules: Schedule 3, Schedule 4, Schedule 6, Schedule 9, Schedule 10, Schedule 11, Schedule 12, Schedule 14, Schedule 16, Schedule 17, Schedule 18 and Schedule 19.

“Dispute Notice” has the meaning ascribed thereto in Section 15.3(b).

“Document” has the meaning ascribed thereto in Section 1.15(b).

“EAC” means the Energy Advisory Committee to be formed by the University to provide input to the University with respect to the operation and use of the Utility Facilities. The membership and voting procedures of the EAC shall be determined by the University, in its discretion, provided that at least one member shall be a Representative of the Concessionaire.

“Eligible Investments” means any one or more of the following obligations or securities: (i) direct obligations of, and obligations fully guaranteed by, the United States of America or any agency or instrumentality of the United States of America, the obligations of which are backed by the full faith and credit of the United States of America; (ii) demand or time deposits, federal funds or bankers’ acceptances issued by any Institutional Lender (provided that the commercial paper or the short-term deposit rating or the long-term unsecured debt obligations or deposits of such Institutional Lender at the time of such investment or contractual commitment providing for such investment have been rated “A” (or the equivalent) or higher by a Credit Rating Agency or any other demand or time deposit or certificate of deposit fully insured by the Federal Deposit Insurance Corporation); (iii) commercial paper (including both non-interest-bearing discount obligations and interest-bearing obligations payable on demand or on a specified date not more than one Year after the date of issuance thereof) which has been rated “A” (or the equivalent) or higher by a Credit Rating Agency at the time of such investment; (iv) any money market funds, the investments of which consist of cash and obligations fully guaranteed by the United States of America or any agency or instrumentality of the United States of America, the obligations of which are backed by the full faith and credit of the United States of America and which have been rated “A” (or the equivalent) or higher by a Credit Rating Agency; and (v) other

investments then customarily accepted by the University in similar circumstances; provided, however, that no instrument or security shall be an Eligible Investment if such instrument or security evidences a right to receive only interest payments with respect to the obligations underlying such instrument or if such instrument or security provides for payment of both principal and interest with a yield to maturity in excess of 120% of the yield to maturity at par.

“Emergency” means (i) an Unplanned Outage or (ii) a situation that is urgent and calls for immediate action, which, if such action is not taken, is reasonably likely to result in imminent harm or physical damage to any or all of the Utility System or any Person, including the University or the Concessionaire.

“Encumbrance” means any mortgage, lien, judgment, execution, pledge, charge, security interest, restriction, easement, servitude, option, reservation, lease, claim, trust, deemed trust or encumbrance of any nature whatsoever, whether arising by operation of Law, judicial process, contract, agreement or otherwise created.

“End Date” means the date on which this Agreement expires or is terminated.

“Environment” means soil, surface waters, ground waters, land, stream sediments, surface or subsurface strata and ambient air.

“Environmental Laws” means any Laws applicable to the Utility System or Utility System Operations regulating or imposing liability or standards of conduct concerning or relating to (i) the regulation, use or protection of human health or the Environment or (ii) the presence of or regulation, use or exposure to Hazardous Substances.

“Equity Participant” means any Person who holds directly any shares of capital stock, units, partnership or membership interests, other equity interests or equity securities of the Concessionaire.

“Escrow Agent” means a bank, trust company or national banking association selected by the University to hold the Cash Deposit.

“Excluded Liabilities” has the meaning ascribed thereto in Section 3.2(d).

“Fiscal Year” means the period from July 1 to June 30, provided that if the University adjusts its fiscal year during the Term, the Fiscal Year shall be adjusted to be the same as the University’s fiscal year.

“Five-Year Plan” means the budget and plan prepared by the Concessionaire in accordance with Section 7.2 for the operation of the Utility System and performance of its obligations under this Agreement in respect of (i) the period consisting of the first partial Fiscal Year of the Term and the first 5 full Fiscal Years of the Term, (ii) any given period of exactly 5 full Fiscal Years during the Term or (iii) if fewer than 5 full Fiscal Years remain in the Term, the remaining full and partial Fiscal Years of the Term.

“Fixed Fee” has the meaning ascribed thereto in Schedule 5.

“Force Majeure” means any event beyond the reasonable control of a Party that delays, interrupts or limits the performance of the affected Party’s obligations hereunder, including an intervening act of God or public enemy, war, invasion, armed conflict, act of foreign enemy, blockade, revolution, act of terror, sabotage, civil commotions, interference by civil or military authorities, condemnation or confiscation of property or equipment by any Governmental Authority, nuclear or other explosion, radioactive or chemical contamination or ionizing radiation, fire, tornado, flooding, earthquake or other natural disaster, riot or other public disorder, vandalism, epidemic, quarantine restriction, strike, labor dispute or other labor protest, stop-work order or injunction issued by a Governmental Authority, a governmental embargo or general unavailability or interruption of supplies or products for the construction, operation, maintenance, repair, replacement and renovation of the Utility System.

“Forecast Utility Fee” has the meaning ascribed thereto in Section 7.1(a).

“GAAP” means U.S. generally accepted accounting principles, consistently applied.

“Governmental Authority” means any court, federal, state, local or foreign government, department, commission, board, bureau, agency or other regulatory, administrative, governmental or quasi-governmental authority, which shall not include the University.

“Hazardous Substance” means any solid, liquid, gas, odor, heat, sound, vibration, radiation or other substance or emission which is a contaminant, pollutant, dangerous substance, toxic substance, hazardous waste, subject waste, hazardous material or hazardous substance that is or becomes regulated by applicable Environmental Laws or which is classified as hazardous or toxic under applicable Environmental Laws (including gasoline, diesel fuel or other petroleum hydrocarbons, polychlorinated biphenyls, asbestos, lead-based paint and urea formaldehyde foam insulation).

“Hospital Plant” means the building identified on Part 3 of Schedule 3 and associated improvements installed therein.

“Hospital Water Tower” means the building identified on Part 4 of Schedule 3 and associated improvements installed therein.

“IFRS” means the International Financial Reporting Standards, consistently applied.

“Independence Road Annex Lease” means the Amended and Restated Lease Agreement dated December 9, 2015, by and between KGRD Green Bay, LLC, as landlord, and the Board of Regents, State of Iowa, for the Use and Benefit of the University of Iowa, as tenant, as amended by that certain Amendment to Amended and Restated Lease Agreement dated September 24, 2016 and that certain Second Amendment to Amended and Restated Lease Agreement dated March 1, 2016, which is attached hereto as Schedule 24, and as may be further amended, modified or restated, with respect to the building of which the Independence Road Annex Space is a part.

“Independence Road Annex Space” means the portion of the building leased pursuant to the Independence Road Annex Lease identified on Part 5 of Schedule 3 and associated improvements installed therein.

“Initial Five-Year Plan” means the Five-Year Plan in respect of the period set forth in clause (i) of the definition of “Five-Year Plan”.

“Institutional Lender” means (i) the United States of America, any state thereof or any agency or instrumentality of either of them, any municipal agency, public benefit corporation or public authority, advancing or insuring mortgage loans or making payments which, in any manner, assist in the financing, development, operation and maintenance of projects, (ii) any (a) savings bank, savings and loan association, commercial bank, trust company (whether acting individually or in a fiduciary capacity) or insurance company organized and existing under the laws of the United States of America or any state thereof, (b) foreign insurance company or commercial bank qualified to do business as an insurer or commercial bank as applicable under the laws of the United States of America, (c) pension fund, foundation or university or college or other endowment fund or (d) investment bank, pension advisory firm, mutual fund, investment company or money management firm, (iii) any “qualified institutional buyer” under Rule 144(A) under the Securities Act or any other similar Law hereinafter enacted that defines a similar category of investors by substantially similar terms or (iv) any other financial institution or entity designated by the Concessionaire and Approved by the University (provided that such institution or entity, in its activity under this Agreement, shall be acceptable under then current guidelines and practices of the University); provided, however, that each such entity (other than entities described in clause (iii) of this definition) or combination of such entities if the Institutional Lender shall be a combination of such entities shall have individual or combined assets, as the case may be, of not less than \$500,000,000, which shall include, in the case of an investment or advisory firm, assets controlled by it or under management.

“Key Performance Indicators” means those requirements and standards for the operation of the Utility System as set forth on Schedule 15.

“KPI Compensation” means the amount of compensation due from the Concessionaire to the University for a KPI Event, which amount for each KPI Event is set forth in Schedule 15.

“KPI Event” has the meaning set forth in Schedule 15, unless such KPI Event is due to a Delay Event, a Compensation Event, a breach of this Agreement by the University, the negligence or willful misconduct of the University or its Representatives, grantees, tenants, contractors, mortgagees, licensees, concessionaires and others claiming by, through, or under the University, or otherwise excused pursuant to this Agreement.

“Law” means any order, writ, injunction, decree, judgment, law, ordinance, decision, opinion, ruling, policy, statute, code, rule or regulation of any Governmental Authority.

“Leasehold Mortgage” means any lease, indenture, mortgage, deed of trust, pledge or other security agreement or arrangement, including a securitization transaction with respect to the Utility Fee or any part thereof, encumbering any or all of the Concessionaire Interest or the shares or equity interests in the capital of the Concessionaire and any of its subsidiaries or any cash reserves or deposits held in the name of the Concessionaire, in each case that satisfies all of the conditions in Section 3.6 and Section 19.1.

“Leasehold Mortgage Debt” means any bona fide debt (including principal, accrued interest, original issue discount and customary lender or financial insurer, agent and trustee fees, costs, premiums, expenses, indemnities and reimbursement obligations (whether liquidated or contingent) with respect thereto, and including all payment obligations under interest rate hedging agreements with respect thereto and reimbursement obligations with respect thereto to any financial insurer) and/or an assignment in connection with a securitization transaction secured by a Leasehold Mortgage relating to the Utility System and granted to a Person pursuant to an agreement entered into prior to the occurrence of any Adverse Action, University Default or any event of termination, cancellation, rescinding or voiding referred to in Section 16.4 giving rise to the payment of amounts for or in respect of termination under this Agreement. For the purposes of determining the Utility System Concession Value, Leasehold Mortgage Debt shall not include (i) debt from an Affiliate of the Concessionaire or the Operator, unless such debt is on terms consistent with terms that would reasonably be expected from a non-Affiliate lender acting in good faith; (ii) any increase in debt to the extent such increase is the result of an agreement or other arrangement entered into after the Concessionaire was aware (or should have been aware, using reasonable due diligence) of the prospective occurrence of an event giving rise to the payment of the Utility System Concession Value; or (iii) any debt with respect to which the Leasehold Mortgagee did not provide the University with notice of its Leasehold Mortgage in accordance, in all material respects, with the Leasehold Mortgage Notice Requirements.

“Leasehold Mortgagee” means the holder or beneficiary of a Leasehold Mortgage or a trustee or agent acting on behalf of such holder or beneficiary, including the Lessor in a lease or Leveraged Lease.

“Leasehold Mortgage Notice Requirements” means the delivery by a holder or beneficiary of a Leasehold Mortgage to the University, not later than 10 Days after the execution and delivery of such Leasehold Mortgage by the Concessionaire, of a true and complete copy of the executed original of such Leasehold Mortgage, together with a notice containing the name and post office address of the holder of such Leasehold Mortgage, which may be an agent on behalf of the provider of the Leasehold Mortgage Debt.

“Leasehold Mortgagee’s Notice” has the meaning ascribed thereto in Section 19.7(a).

“Lessor” means a Leasehold Mortgagee that has purchased all or a portion of the Concessionaire Interest and leased that interest in the Concessionaire Interest to the Concessionaire.

“Letter of Credit” means a committed, irrevocable, unconditional, commercial letter of credit, in favor of the University, in form and content reasonably acceptable to the University, payable in U.S. dollars upon presentation of a sight draft and a certificate confirming that the University has the right to draw under such letter of credit in the amount of such sight draft, without presentation of any other Document, which letter of credit (i) is issued by a commercial bank or trust company that is a member of the New York Clearing House Association or the Clearing House Interbank Payments System and that has a current credit rating of A-2 or better by Standard & Poor’s Ratings Services and an equivalent credit rating by another Credit Rating Agency (or such other commercial bank or trust company reasonably acceptable to the University and Approved by the University prior to the submission of the letter of credit) or such

other commercial bank or trust company that is Approved by the University, and (ii) provides for the continuance of such letter of credit for a period of at least one Year or as otherwise provided in this Agreement. The office for presentment of sight drafts specified in the Letter of Credit shall be located (a) at a specified street address within at least one of the City of Iowa City, Iowa; the City of Des Moines, Iowa; the City of Chicago, Illinois; the City of Minneapolis, Minnesota; or the City of St. Paul, Minnesota or other location acceptable to the University or (b) at a facsimile number located within the United States.

“Leveraged Lease” means a lease, sublease, concession, management agreement, operating agreement or other similar arrangement in which the Lessor has borrowed a portion of the purchase price of the interest in the Concessionaire Interest acquired by the Lessor and granted to the lenders of those funds a security interest in that interest.

“Loss” means, with respect to any Person, any loss, claim, liability, damage, penalty, amount paid pursuant to a settlement, charge or out-of-pocket and documented cost or expense (including fees and expenses of counsel and any Tax losses) actually suffered or incurred by such Person but excluding any punitive, special, exemplary, indirect and consequential damages and any contingent liability until such liability becomes actual (provided that, for the avoidance of doubt, an actual loss, claim, liability, damage of any Contractor or Representative of the Concessionaire and for which the Concessionaire is liable subject only to receiving payment in respect thereof from the University, shall not be treated as a contingent liability for this purpose).

“Madison Street Replacement Building” has the meaning ascribed thereto in Section 3.30(d).

“Madison Street Replacement Notice” has the meaning ascribed thereto in Section 3.30(d).

“Madison Street Services Space” means the portion of the building identified on Part 6 of Schedule 3 and associated improvements installed therein.

“Madison Street Water Storage Tank” means the building identified on Part 7 of Schedule 3 and associated improvements installed therein.

“Main Campus” means the real property and improvements located thereon that are owned and/or leased by the University or the BOR, as applicable, which real property is shown on Appendices 1 through 7 of Schedule 16, which shall depict the real property that comprise the “Main Campus” for the applicable Utility, which the Parties acknowledge and agree may differ among Utilities, such that when reference is made herein to the “Main Campus”, it shall be the Main Campus for the relevant Utility.

“Main Campus Power Plant” means the building identified on Part 8 of Schedule 3 and associated improvements installed therein.

“Main Campus Water Treatment Plant” means the building identified on Part 9 of Schedule 3 and associated improvements installed therein.

“Main Campus Water Treatment Plant Sublease” means the sublease of certain space within the Main Campus Water Treatment Plant for research and certain ancillary uses related and unrelated to the Utility System or Utility System Operations by the University in substantially the form attached hereto as Schedule 22.

“Major KPI Event” means a KPI Event which obligates the Concessionaire to pay KPI Compensation to the University, with respect to that KPI Event only, in an amount equal to the greater of (i) \$10,000,000 and (ii) 10% of the Utility Fee.

“Material Adverse Effect” means a material adverse effect (after taking into account contemporaneous material positive effects) on the business, operations, financial condition or results of operations of the Utility System taken as a whole or on the ability of the University to consummate the Transaction or perform any material obligation hereunder; provided, however, that no effect arising out of or in connection with or resulting from any of the following shall be deemed, either alone or in combination, to constitute or contribute to a Material Adverse Effect: (i) general economic conditions or changes therein; (ii) financial, banking, currency or capital markets fluctuations or conditions (either in the United States of America or any international market and including changes in interest rates); (iii) conditions affecting the financial services or utility industries generally; (iv) any existing event or occurrence of which the Concessionaire has actual knowledge as of the Setting Date; (v) any action, omission, change, effect, circumstance or condition contemplated by this Agreement or attributable to the execution, performance or announcement of this Agreement or the Transaction (except for any litigation relating thereto or to this Agreement (or the matters contemplated herein)); and (vi) negligence, intentional misconduct or bad faith of the Concessionaire or its Representatives.

“Material Change” means any material change in the dimensions, character, quality or location of any part of the Utility System that would not be considered Capital Improvements.

“Memorandum of Lease” has the meaning ascribed thereto in Section 2.8.

“MS4 Permit” has the meaning ascribed thereto in Section 11.13.

“New Agreement” has the meaning ascribed thereto in Section 19.5(a).

“New Approved Capital Improvement” has the meaning ascribed thereto in Schedule 5.

“New Approved Capital Improvement Cost” has the meaning ascribed thereto in Schedule 5.

“Newton Road Chilled Water Plant” means the building identified on Part 10 of Schedule 3 and associated improvements installed therein.

“North Campus Chilled Water Plant” means the building identified on Part 11 of Schedule 3 and associated improvements installed therein.

“Notice Period” has the meaning ascribed thereto in Section 12.4(b).

“Oakdale 69kV Substation” means the building identified on Part 12 of Schedule 3 and associated improvements installed therein.

“Oakdale Campus” means the real property and improvements located thereon that are owned and/or leased by the University or the BOR, as applicable, which real property is shown on Appendices 1 through 7 of Schedule 17, which shall depict the real property that comprise the “Oakdale Campus” for the applicable Utility, which the Parties acknowledge and agree may differ among Utilities, such that when reference is made herein to the “Oakdale Campus”, it shall be the Oakdale Campus for the relevant Utility.

“Oakdale Chilled Water Plant” means the building identified on Part 13 of Schedule 3 and associated improvements installed therein.

“Oakdale Hygienic Lab Chiller Space” means that certain space on the Oakdale Campus, in which certain Utility System Assets and Utility Facility Assets are located, as identified on Part 14 of Schedule 3.

“Oakdale Power Plant Substation” means the building identified on Part 15 of Schedule 3 and associated improvements installed therein.

“Oakdale Utility Power Plant” means the building identified on Part 16 of Schedule 3 and associated improvements installed therein.

“Oakdale Water Tower” means the building identified on Part 17 of Schedule 3 and associated improvements installed therein.

“Oakdale Well House” means the building identified on Part 18 of Schedule 3 and associated improvements installed therein.

“O&M Costs” means, in the aggregate, the Capped O&M Costs and the Uncapped O&M Costs.

“Obligation Payment” has the meaning ascribed thereto in Section 12.7.

“Obligee” means any Person entitled to the benefit of a payment obligation under Article 12.

“Obligor” means any Person obligated to meet a payment obligation under Article 12.

“Offsets” has the meaning ascribed thereto in Section 12.11(a).

“Ongoing Utility System Projects” means those projects that the University is undertaking with respect to the Utility System that are listed on Schedule 11, provided that the University may, if it completes any such projects prior to the Time of Closing, provide the Concessionaire notice thereof and amend Schedule 11 accordingly.

“Operating Agreement” means any material agreement, contract or commitment to which the Concessionaire is a party or otherwise relating to the Utility System Operations as in force

from time to time (including any warranties or guaranties), but excluding any Leasehold Mortgage and financing documents related thereto.

“Operating Agreements and Plans” has the meaning ascribed thereto in Section 3.11(a).

“Operations Plan” has the meaning ascribed thereto in Schedule 2.

“Operator” has the meaning ascribed thereto in Section 3.3(a).

“Operator Evaluation Period” means, as applicable, (i) the period commencing on the Day immediately following the Post-Closing Transition Period and ending on the 5-year anniversary thereof or (ii) each subsequent 5-year period after the period described in clause (i). For the avoidance of doubt, such 5-year periods are fixed periods, rather than rolling periods.

“PAL Permit” has the meaning ascribed thereto in Section 11.13.

“Party” means a party to this Agreement and “Parties” means both of them.

“Performance Standards” means the standards, specifications, policies, procedures and processes that apply to the operation of, maintenance of, rehabilitation of and Capital Improvements to the Utility System set forth in Schedule 2 and its appendices (as may be modified pursuant to the terms hereof), including any plans submitted by the Concessionaire to the University as required therein. To the extent that any term or provision set forth in Schedule 2 or incorporated by reference in Schedule 2 conflicts with any term or provision specified in this Agreement, then such term or provision of this Agreement shall govern and shall supersede any such conflicting term or provision.

“Permitted Concessionaire Encumbrance” means, with respect to the Concessionaire Interest: (i) any Encumbrance that is being contested in accordance with Section 3.5(a) (but only for so long as such contest effectively postpones enforcement of any such Encumbrance); (ii) any (A) lien or security interest for obligations not yet due and payable to a Contractor or other Person, (B) statutory lien, deposit or other non-service lien or (C) lien, deposit or pledge to secure mandatory statutory obligations or performance of bids, tenders, contracts (other than for the repayment of borrowed money) or leases, or for purposes of like general nature, any of which are incurred in the ordinary course of business of all or any part of the Utility System Operations and are either (x) not delinquent or (y) which are being contested by the Concessionaire in accordance with Section 3.5(a) (but only for so long as such contest effectively postpones enforcement of any such Encumbrance); (iii) inchoate materialmen’s, mechanics’, workmen’s, repairmen’s, employees’, carriers’ or warehousemen’s liens or other like Encumbrances arising in the ordinary course of business of all or any part of the Utility System or the Concessionaire’s performance of any of its rights or obligations hereunder, and either (A) are not delinquent or (B) are being contested by the Concessionaire in accordance with Section 3.5(a) (but only for so long as such contest effectively postpones enforcement of any such Encumbrance); (iv) any right reserved to or vested in any Governmental Authority or the University by any statutory provision or under common law (it being understood and agreed that nothing in this clause (iv) shall limit or otherwise affect the University’s obligations or the Concessionaire’s rights hereunder); (v) any other Encumbrance permitted hereunder (including any Leasehold Mortgage (and financing statements or other means of perfection relating thereto)); (vi) liens incurred in the ordinary

course of business in connection with workers' compensation, unemployment insurance, social security and other governmental rules and that do not in the aggregate materially impair the use, value or operation of the Utility System; (vii) any Encumbrances created, incurred, assumed or suffered to exist by the University or any Person claiming through the University; (viii) any Encumbrance, security interest or pledge imposed upon the Concessionaire and any Affiliate as to the Concessionaire's and any Affiliate's assets arising from borrowings, financings, leases or similar transactions in the ordinary course of business; (ix) any Encumbrances in existence as of the Closing not caused by the Concessionaire, the Operator or any of their respective Representatives; and (x) any amendment, extension, renewal or replacement of any of the foregoing.

"Permitted University Encumbrance" means: (i) the Concessionaire Interest; (ii) any Encumbrance that is being contested, or being caused to be contested, by the University in accordance with Section 3.5(b) (but only for so long as such contest effectively postpones enforcement of any such Encumbrance); (iii) inchoate materialmen's, mechanics', workmen's, repairmen's, employees', carriers' or warehousemen's liens or other like Encumbrances arising in the University's performance of any of its rights or obligations hereunder, and either (A) are not delinquent or (B) are being contested, or are being caused to be contested, by the University in accordance with Section 3.5(b) (but only for so long as such contest effectively postpones enforcement of any such Encumbrance); (iv) any easement, covenant, condition, right-of-way or servitude (or other similar reservation, right and restriction) or other defects and irregularities in the title to the applicable assets that do not materially interfere with the Utility System Operations or the rights and benefits of the Concessionaire under this Agreement or materially impair the value of the Concessionaire Interest from and after the Closing Date; (v) any zoning, building, environmental, health, safety or other Law; (vi) the police and regulatory powers of the State of Iowa, City of Iowa City, Iowa and Johnson County, Iowa with respect to the Utility System, and the regulation of the use of the Public Way (it being understood and agreed that nothing in this clause (vi) shall prevent any exercise of such powers being an Adverse Action if it meets the definition thereof); (vii) any right reserved to or vested in any Governmental Authority by any statutory provision or under common law (it being understood and agreed that nothing in this clause (vii) shall prevent any exercise of such right being an Adverse Action if it meets the definition thereof); (viii) any other Encumbrance permitted hereunder; (ix) any Encumbrances created, incurred, assumed or suffered to exist by the Concessionaire or any Person claiming through it; (x) any rights reserved to or vested in the University by any statutory provision (it being understood and agreed that nothing in this definition shall limit or otherwise affect the University's obligations or the Concessionaire's rights hereunder); (xi) any of the Encumbrances set forth on Schedule 10; and (xii) any amendment, extension, renewal or replacement of any of the foregoing.

"Person" means any individual (including, the heirs, beneficiaries, executors, legal representatives or administrators thereof), corporation, partnership, joint venture, trust, limited liability company, limited partnership, joint stock company, unincorporated association or other entity or a Governmental Authority, including the University.

"Post-Closing Transition Period" means the period from the Closing Date to the date that is 9 months after the Closing Date, provided that the Concessionaire may terminate the Post-Closing Transition Period earlier on written notice to the University.

“Project Intellectual Property” has the meaning ascribed thereto in Section 3.11(b).

“Property Taxes” means any ad valorem property Tax attributable to the Utility System or the Concessionaire Interest, including an ad valorem tax on real property and improvements, buildings, structures, fixtures and all tangible personal property.

“Prorated Items” means all revenues, charges, costs and expenses with respect to Assumed Liabilities.

“Prudent Industry Practices” means, at a particular time, those practices, methods, standards and acts which are engaged in and generally accepted by prudent providers of services of the kind contemplated by this Agreement in the United States, taking into account practices, methods and acts in use at Comparable Utility Systems or individual utility facilities forming part of Comparable Utility Systems, life-cycle maintenance costs and considerations, and the design, engineering, construction, testing, operation and maintenance requirements set out in this Agreement, and which, in the exercise of reasonable judgment at the time the decision was made, could reasonably have been expected to achieve the desired result consistent with applicable Law, safety, reliability, efficiency and expedition. “Prudent Industry Practices” is not intended to be limited to the optimum practice or method to the exclusion of all others, but rather to be a spectrum of reasonable practices, methods, standards and acts; provided, however, when taking into account Prudent Industry Practices, the Concessionaire shall also take into account commercially reasonable sustainability practices, as determined in accordance with Section 3.29, then being utilized by providers of similar services.

“Public Way” means the streets, alleys, driveways and sidewalks owned by (or for the benefit of) the University.

“Quarter” means each calendar quarter of each Fiscal Year of the Term.

“Reconciliation Statement” has the meaning ascribed thereto in Section 7.1(b).

“Record Retention Policy” has the meaning ascribed thereto in Section 3.12(a).

“Recovery Period” means a period for each New Approved Capital Improvement, commencing at the beginning the Fiscal Year following the Fiscal Year in which the applicable New Approved Capital Improvement Costs are incurred and expiring on the earlier to occur of (i) the expiration of the 20th Fiscal Year following the commencement of such period and (ii) the expiration of the Term, over which the Concessionaire shall recover the cost of that New Approved Capital Improvement in the Utility Fee pursuant to Schedule 5, as such period may be adjusted pursuant to Section 4.3.

“Release” means depositing, spilling, leaking, pumping, pouring, emitting, discarding, abandoning, emptying, discharging, injecting, escaping, leaching, dumping or disposing of any Hazardous Substances into the Environment.

“Repetitive Failure” means a Repetitive Non-Major KPI Event or a Repetitive Performance Standards Failure.

“Repetitive Non-Major KPI Event” means, during any given Operator Evaluation Period, the occurrence of a KPI Event for a particular Key Performance Indicator 3 or more times during such Operator Evaluation Period.

“Repetitive Performance Standards Failure” means, during any given Operator Evaluation Period, the failure to comply with or to meet a distinct requirement of the Performance Standards (provided that the University shall have provided separate written notices for each such failure) 3 or more times during such Operator Evaluation Period.

“Representative” means, with respect to any Person, any director, officer, employee, official, partner, member, owner, agent, lawyer, accountant, auditor, professional advisor, consultant, engineer, Contractor, other Person for whom such Person is at law responsible or other representative of such Person and any professional advisor, consultant or engineer designated by such Person as its “Representative”. For the avoidance of doubt, the Operator (if other than the Concessionaire) shall be deemed a Representative of the Concessionaire.

“Request for Proposals” has the meaning ascribed thereto in the recitals to this Agreement.

“Required Coverages” has the meaning ascribed thereto in Section 13.2.

“Restoration” has the meaning ascribed thereto in Section 13.4(a)(ii).

“Restoration Funds” has the meaning ascribed thereto in Section 13.4(a)(iii).

“Restoration Shortfall Amount” has the meaning ascribed thereto in Section 13.4(a)(iii).

“Reversion Date” means the Business Day immediately following the End Date.

“Revised Proration Statement” has the meaning ascribed thereto in Section 2.2(b)(ii).

“Safety KPI” has the meaning set forth in Schedule 15.

“Sand Road Space” means the portion of the building identified on Part 19 of Schedule 3 and associated improvements installed therein.

“Schedule” means a schedule attached hereto and incorporated in this Agreement, unless otherwise expressly indicated by the terms of this Agreement.

“Securities Act” means the United States Securities Act of 1933, as amended.

“Senior Officials” has the meaning ascribed thereto in Section 3.3(c)(i)(A).

“Setting Date” means the Day that is 5 Business Days prior to the Bid Date.

“SOFR” means, with respect to any day, the secured overnight financing rate published for such day by the Federal Reserve Bank of New York, as the administrator of the benchmark, (or a successor administrator) on the Federal Reserve Bank of New York’s Website.

“Substation L” means the building identified on Part 20 of Schedule 3 and associated improvements installed therein.

“Substation U” means the building identified on Part 21 of Schedule 3 and associated improvements installed therein.

“Substations” means, collectively, Substation L, Substation U, Oakdale Power Plant Substation and the Oakdale 69kV Substation.

“Supplies” has the meaning ascribed thereto in Section 7.3(a).

“Supply Contract” has the meaning ascribed thereto in Section 7.3(a).

“Supply Costs” means all out-of-pocket costs incurred in the procurement of Supplies (including any transmission costs, riders or other similar costs reasonably necessary to procure Supplies).

“Target” has the meaning ascribed thereto in Schedule 15.

“Tax” means any federal, state, local or foreign income, gross receipts, commercial activity, license, payroll, employment, excise, severance, stamp, occupation, premium, windfall profits, environmental, customs duties, permit fees, capital stock, franchise, profits, withholding, social security, unemployment, disability, real property, personal property, parking, sales, use, transfer, registration, value added, alternative or add-on minimum, estimated or other tax, levy, impost, stamp tax, duty, fee, withholding or similar imposition of any kind payable, levied, collected, withheld or assessed at any time, including any interest, penalty or addition thereto, whether disputed or not.

“Tax-Advantaged Bond” means any bond that is (i) a bond the interest on which is excluded from gross income for purposes of the Code, (ii) a “Build America Bond” as defined in Section 54AA of the Code, or (iii) a “qualified tax credit bond” as defined in Section 54A of the Code.

“Term” has the meaning ascribed thereto in Section 2.1.

“Termination Damages” has the meaning ascribed thereto in Section 14.2(a).

“Third Party Agreement” has the meaning ascribed thereto in Section 3.18.

“Third Party Claim” means any Claim asserted against an Obligee by any Person who is not a Party or an Affiliate of such a Party.

“Third Party Customer Contracts” has the meaning given thereto in Section 2.5(e).

“Third Party Customers” means each of the following parties for the following Utilities: (i) City of Iowa City for water at the Hawkeye Lift Station; (ii) Rainbow Child Care for water and sewer; (iii) Brookland Woods for water and sewer; (iv) Hope Lodge for water and sewer; (v) Sprout House for water and sewer; (vi) Ronald McDonald for water and sewer; (vii) 401 Melrose

Ave for water and sewer; (viii) 321 Melrose Ave for water and sewer; (ix) State Historical Building for steam, water and sewer and (x) Levitt Center for University Advancement for water and sewer.

“Time of Closing” means 10:00 a.m. Central Time on the Closing Date or such other time on that date as that the University and the Concessionaire agree in writing that the Closing shall take place.

“Title Commitment” has the meaning ascribed thereto in Section 2.4(a)(iii).

“Title Company” means Chicago Title Insurance Company.

“Title V Permit” has the meaning ascribed thereto in Section 11.13.

“Transaction” has the meaning ascribed thereto in Section 2.1.

“Transfer” means to sell, convey, assign, lease, sublease, mortgage, encumber, transfer or otherwise dispose of.

“Transferee” means any Person who obtains the Concessionaire Interest pursuant to a Transfer.

“Tunnels” means the tunnels and other underground passageways where Utility System Assets or Utility Facilities are located as identified on Schedule 18, which Tunnels, for the avoidance of doubt, are part of the Utility System but are not Utility System Land. To the extent that additional tunnels where Utility System Assets or Utility Facilities are located are identified by the Concessionaire or the University after the date hereof, the definition of “Tunnels” shall include those later-identified tunnels. For the avoidance of doubt, all vaults and trench-boxes not exclusively used in connection with the Utility System shall be treated as Tunnels.

“Unassigned Contracts” has the meaning ascribed thereto in Section 2.5(e).

“Uncapped O&M Costs” means the sum of the following: (1) specifically identified out-of-pocket operating and maintenance costs and expenses incurred by the Concessionaire (which costs and expenses shall include payments due and payable by the Concessionaire to the Operator or other Contractors pursuant to an Operating Agreement or similar agreement) or the Operator in operating the Utility System and complying with their respective obligations under this Agreement: (a) costs incurred due to a Delay Event, provided that for events described in clause (iii) of the definition of “Delay Event”, Uncapped O&M Costs shall only include those costs (which are not Capital Improvements) necessary to bring the Utility System into compliance with the applicable Law and not the ongoing costs associated therewith, (b) costs incurred to modify the location or configuration of the Utility System as directed by the University pursuant to Section 3.23 (but only to the extent such costs are not costs incurred to make a Capital Improvement), (c) costs incurred by the Concessionaire pursuant to Section 4.3(c)(ii) if the relevant proposed Capital Improvement or Material Change is not Approved by the University, (d) costs incurred to disconnect real property from the Utility System if required pursuant to Section 5.3(a), (e) costs incurred in connection with a modification to the Performance Standards pursuant to Section 6.3(a), (f) costs incurred to

perform the obligations set forth in Section 7.4, but only to the extent such costs were Approved by the University prior to being incurred, (g) costs incurred to pay Property Taxes, if such costs are included in Uncapped O&M Costs pursuant to Section 3.8, (h) costs incurred to make time-sensitive repairs or improvements to (A) the Utility System or (B) University-owned property related to, but not a part of, the Utility System, in each case to the extent such repairs or improvements (1) are not Capital Improvements, (2) were not contemplated in the most recently approved Five-Year Plan, (3) were either (x) made in the Concessionaire's good-faith belief that they were being made to the Utility System or (y) made in the Concessionaire's good-faith belief that the repair was the best first response to an Emergency, and (4) have been Approved by the University in its discretion, (i) stormwater charges assessed by the City of Iowa City, Iowa, except to the extent that such stormwater charges increase as a result of an action or inaction of the Concessionaire (other than the actions or inactions that the Concessionaire is directed or obligated to take or omit pursuant to this Agreement, including in order to comply with the Performance Standards), (j) an Approved Capital Improvement or Material Change that is classified as Uncapped O&M Costs pursuant to Section 4.3(h), (k) costs incurred in connection with Supply procurement assistance under Section 7.3(a) or Section 7.3(b), but only to the extent such costs were Approved by the University prior to being incurred, (l) costs (including KPI Compensation) incurred as a direct result of the Concessionaire's failure to comply with Law or this Agreement if the sole reason for such failure is that the University failed to be reasonable in its Approval of all possible Capital Improvements or Material Changes that would cure or prevent such failure to comply with such Law or this Agreement, (m) costs associated with a University Directive that is not the construction of a Capital Improvement in accordance with Section 5.1, (n) legal fees arising out of any Excluded Liabilities, (o) the costs of any premium or deductible for professional liability insurance coverage procured by the Concessionaire in accordance with Section 13.1(e) for a particular Approved Capital Improvement or Material Change provided that such coverage and the cost thereof is expressly included in the request for Approval of such Capital Improvement or Material Change and the University Approves such cost, (p) the cost of the deductible for the University's All Risk Property Insurance described in Section 13.2(c) for any claim made on such insurance with respect to the Utility System in excess of \$250,000 (Adjusted for Inflation) per claim, (q) those costs identified as "Uncapped O&M Costs" in Section 3.30, (r) all costs identified in the definition of "Capped O&M Costs" related to any Ongoing Utility System Project or New Approved Capital Improvement incurred during the first 3 Years after such Ongoing Utility System Project or New Approved Capital Improvement becomes part of the Utility System or is brought into service, as applicable (s) the operations and maintenance costs that are reasonably necessary to cause the Utility System or Utility System Operations to comply with the enactment of a new Law or the modification, amendment or change in enforcement or interpretation of a Law (including a change in the application or implementation thereof by any Governmental Authority) arising after the Setting Date for the first 3 Years after the occurrence of such enactment, modification, amendment or change (but not, for the avoidance of doubt, those costs that are included in any other clause of this definition), and (t) the reasonable costs of any other adjustments to the Capped O&M Index made pursuant to this Agreement for the first 3 Years after such adjustment is first made, provided that, for the avoidance of doubt, in no event, shall Uncapped O&M Costs include any costs or expenses incurred by the Concessionaire that result from the negligence, violation of Law or willful misconduct of the Concessionaire or the Operator; and (2) amount equal to the sum of (a) the federal income Taxes that the Concessionaire would pay on the income generated

solely by the equity portion of the Variable Fee Component (which for the avoidance of doubt is the amount equal to sub-part (ii) only in the calculation of the Utility Fee as set forth on Schedule 5 of the Concession Agreement) assuming the highest corporate income tax rate and (b) the Taxes that the Concessionaire would pay on the income solely generated by the equity portion of the Variable Fee Component (which for the avoidance of doubt is the amount equal to sub-part (ii) only in the calculation of the Utility Fee as set forth on Schedule 5 of the Concession Agreement) to the State of Iowa for the highest corporate income tax imposed by the State of Iowa, in each case regardless of the amount of such Taxes actually paid by the Concessionaire, provided, that the sum of subparts (2)(a) and (2)(b) shall be calculated according to the following formula: $((\text{Benchmark Amount} \times 0.5 \times \text{Variable Fee Component}) * [X]) / (1 - [X])$, where “[X]” is defined as the then-current blended tax rate using the then-highest federal corporate income tax rate expressed as a decimal (e.g., currently 0.21) (the “Federal Tax Rate”) and the then-highest Iowa corporate income tax rate expressed as a decimal (e.g., currently 0.12) (the “State Tax Rate”). For the avoidance of doubt, such blended tax rate will be calculated such that $[X] = \text{State Tax Rate} + (1 - \text{State Tax Rate}) * \text{Federal Tax Rate}$.

“University” has the meaning ascribed thereto in the preamble to this Agreement.

“University Campus” means, collectively, the Main Campus and the Oakdale Campus.

“University Default” has the meaning ascribed thereto in Section 16.2(a).

“University Directive” means a written order or directive prepared by or on behalf of the University in conformity with the requirements and limitations of this Agreement directing the Concessionaire, to the extent permitted hereby, other than pursuant to Section 3.23, to (i) add to, or perform work in respect of, the Utility System in addition to that provided for in this Agreement (including (a) work within the University Campus on utility facilities or energy equipment that are not and will not be considered part of the Utility System in accordance with the definition thereof; (b) taking control of the internal University billing system for Utilities; and (c) causing the Concessionaire to engage in sustainability practices in excess of those reasonably required by Prudent Industry Practices) or (ii) change the dimensions, character, quantity, quality, description, location or position of any part of the Utility System or make other changes to the Utility System; provided that, notwithstanding the foregoing, (1) as part of any such order or directive or as a separate order or directive, the University may cause certain personal property to be deemed Utility System Assets and part of the Utility System even if such personal property is beyond the line of demarcation for the applicable Utility as set forth in the Performance Standards and may cause the Concessionaire to purchase and/or install such personal property, provided that if any such personal property would be beyond the line of demarcation for the applicable Utility as set forth in the Performance Standards, such order or directive may only be issued with the approval of the Concessionaire, acting reasonably, (2) any such order or directive can include the design, demolition, project management, construction, repair, replacement, remodeling, renovation, reconstruction, enlargement, addition, alteration, painting, or structural or other improvements not included in the Utility Facilities but related thereto, provided that such work must be part of a larger project (as determined by the University in its reasonable discretion) for which the Utility System is the primary driver of such project (as determined by the University in its reasonable discretion), (3) the University may, in any such order or directive, direct the manner and means by which the Concessionaire performs a

University Directive, and (4) no such order or directive may in any event order or direct the Concessionaire to do any act that (x) is not technically feasible or could reasonably be expected to violate any applicable Law, contravene any Consent or Authorization issued by a Governmental Authority, cause a material insured risk to become uninsurable or cause the Concessionaire to fail to be in compliance with this Agreement or (y) result in additional expenditure by the Concessionaire of an amount in excess of \$100,000,000 in any given Fiscal Year or in excess of \$200,000,000 over any given period of five Fiscal Years (in each case Adjusted for Inflation).

“University Liaison” means Associate Director, Utility Operations, or such other Person as may be identified by the University to the Concessionaire in writing.

“University Required Coverages” has the meaning ascribed thereto in Section 13.2.

“University Responsible Parties” has the meaning ascribed thereto in Section 12.2.

“University Utility System Employees” means those Persons employed by the University immediately prior to the Closing whose duties directly relate to the operation or maintenance of the Utility System.

“University’s Option” has the meaning ascribed thereto in Section 19.7(a).

“Unplanned Outage” has the meaning ascribed thereto in Schedule 2.

“Unrecovered Balance” has the meaning ascribed thereto in Schedule 5.

“Utility” means any of the following specific individual utility services: (i) electricity, (ii) steam and condensate, (iii) domestic water, (iv) chilled water, (v) sanitary sewage, (vi) storm water and (vii) compressed air, and “Utilities” means each of them.

“Utility Facilities” means the improvements and equipment (a) constituting part of or located on the University Campus, including those identified in Schedule 3, that are directly and exclusively involved in the generation, distribution and return of the Utilities and the operation and maintenance of the Utility System and that are not beyond the line of demarcation for each Utility as set forth in the Performance Standards, including (1) the distribution pipes carrying the Utilities (including pipes conveying sanitary sewage and storm water), (2) the trench-boxes and vaults exclusively used in connection with the Utilities, (3) the Main Campus Power Plant, (4) Substation L, (5) Substation U, (6) the Oakdale Utility Power Plant, (7) the Oakdale 69kV Substation, (8) the Oakdale Power Plant Substation (9) the Main Campus Water Treatment Plant, (10) the Oakdale Water Tower, (11) the Oakdale Well House, (12) the North Campus Chilled Water Plant, (13) the Newton Road Chilled Water Plant, (14) Chilled Water Plant 1, (15) Chilled Water Plant 2, (16) the Oakdale Chilled Water Plant, (17) the Oakdale Hygienic Lab Chiller Space, (18) the Hospital Plant, (19) the Hospital Water Tower, (20) West Campus Steam Plant, (21) the Independence Road Annex Space (until such time as such the Independence Road Annex Lease is terminated or expires), (22) the Sand Road Space, (23) the Madison Street Services Space, (24) the Madison Street Water Storage Tank and (25) electric distribution wires or (b) located on Utility System Land; provided that the definition of “Utility Facilities” does not include (i) any improvements or equipment that are beyond the line of demarcation for each

Utility as set forth in the Performance Standards, except for those areas (I) expressly set forth in the Performance Standards as being within said line of demarcation or (II) which the University directs to be part of the Utility System as part of a University Directive in accordance with the definition thereof or (ii) any cameras or other public safety equipment installed, maintained or used by the University's Department of Public Safety or any successor department.

"Utility Fee" means the fee established as compensation for the Utility Services, as set forth on Schedule 5 and as may be adjusted pursuant to the terms of this Agreement.

"Utility Services" means the services to be provided by the Concessionaire as grantee of the concession under this Agreement.

"Utility System" means (A) the personal property, real property, improvements, fixtures and equipment owned and operated by the University prior to the Time of Closing to provide the Utilities on the University Campus, specifically limited to (i) the Utility System Assets, (ii) the computer systems and software set forth on Schedule 12, (iii) the Utility Facilities, (iv) the Utility System Land, (v) the Tunnels and (vi) Utility System Light Fixtures; provided, however, that the "Utility System" shall not include, other than expressly referred to above, (x) any utility distribution facilities or other equipment that is beyond the line of demarcation for each Utility, as set forth in the Performance Standards, except to the extent incorporated into the Utility System by a University Directive, (y) any interest in the Public Way or similar real property or (z) any utility facilities in a building that is not a building leased by the Concessionaire, up to the Utility System line of demarcation for such building, as described in the Performance Standards, except to the extent incorporated into the Utility System by a University Directive; and (B) from and after the Time of Closing, such Utility System as it is reconfigured, replaced, improved or relocated by the Concessionaire or the Operator pursuant to the terms of this Agreement.

"Utility System Assets" means (i) as of the time immediately prior to the Time of Closing, the personal property of the University used in connection with operations of the Utility System and identified on Part 23 of Schedule 3 as "Personal Property" and (ii) from and after the Time of Closing, the personal property of the Concessionaire or the Operator used in connection with the operations of the Utility System.

"Utility System Concession Value" means, at any given date, the fair market value of the Concessionaire Interest at the time of the occurrence of the relevant Adverse Action or University Default or any event of termination, cancellation, rescinding or voiding referred to in Section 16.4 (but excluding the effect of such Adverse Action, University Default or event described in Section 16.4), as determined pursuant to a written appraisal prepared in conformity with the Uniform Standards of Professional Appraisal Practice as set forth by the Appraisal Standards Board, or its successor organization, by an independent third party appraiser that is nationally recognized in appraising similar assets and that is acceptable to the University and the Concessionaire; provided, however, that the Utility System Concession Value shall in no event be less than the amount of all Leasehold Mortgage Debt (including Breakage Costs) on the End Date. If the Parties fail to agree upon such a single appraiser within 30 Days after a Party requests the appointment thereof, then the University and the Concessionaire shall each appoint an independent third party appraiser and both such appraisers shall be instructed jointly to select

a third independent third party appraiser to make the appraisal referred to above. The University shall pay the reasonable costs and expenses of any appraisal.

“Utility System Contracts” means the agreements to which the University is a party relating to the operations of the Utility System that are set forth on Schedule 4 and that will be assigned to the Concessionaire at the Time of Closing or thereafter.

“Utility System Electrical Lighting Map” means the map set forth on Schedule 26.

“Utility System Land” means those parcels of real property described in Schedule 3 for the Main Campus Power Plant, Substation L, Substation U, the Oakdale Utility Power Plant, the Oakdale 69kV Substation, the Oakdale Power Plant Substation, the Main Campus Water Treatment Plant, the Oakdale Water Tower, the Oakdale Well House, the Chilled Water Plant 2, the Oakdale Chilled Water Plant, the Hospital Water Tower, the Madison Street Water Storage Tank and the West Campus Steam Plant, and certain other land as identified on Schedule 3 and further described in the Memorandum of Lease.

“Utility System Light Fixtures” means those stand-alone exterior light poles located within the boundaries of the Utility System Electrical Lighting Map that are owned by the University but not (i) located on property that is part of the University of Iowa Hospital Center, (ii) located in parking lots or parking facilities, (iii) located along roads maintained by the University’s parking and transportation department, (iv) attached to or affixed to any building (other than a Utility Facility) or (v) attached to bollards or hand rails.

“Utility System Operations” means the operation, management and maintenance of the Utility System and all other actions relating to the Utility System that are performed by or on behalf of the Concessionaire pursuant to this Agreement.

“Utility System Purposes” means the use of the Utility System to provide Utility Services in support of the University by providing utility services to University facilities on the University Campus, including to students, faculty, administrators, employees and invitees of the University thereon and others providing services to the University.

“Variable Fee Component” has the meaning ascribed thereto in Schedule 5.

“Wells Fargo” has the meaning ascribed thereto in Section 9.1(k).

“West Campus Steam Plant” means the building identified on Part 22 of Schedule 3 and associated improvements installed therein.

“Year” means the calendar year.

Section 1.2. Number and Gender. In this Agreement, words in the singular include the plural and vice versa and words in one gender include all genders.

Section 1.3. Headings. The division of this Agreement into articles, sections and other subdivisions is for convenience of reference only and shall not affect the construction or interpretation of this Agreement. The headings in this Agreement are not intended to be full or

precise descriptions of the text to which they refer and shall not be considered part of this Agreement.

Section 1.4. References to this Agreement. The words “herein”, “hereby”, “hereof”, “hereto” and “hereunder” and words of similar import refer to this Agreement as a whole, including the Schedules, and not to any particular portion of it. The words “Article”, “Section”, “paragraph”, “sentence”, “clause” and “Schedule” mean and refer to the specified article, section, paragraph, sentence, clause or schedule of or to this Agreement.

Section 1.5. References to Any Person. A reference in this Agreement to any Person at any time refers to such Person’s permitted successors and assignees.

Section 1.6. Meaning of Including. In this Agreement, the words “include”, “includes” or “including” mean “include without limitation”, “includes without limitation” and “including without limitation”, respectively, and the words following “include”, “includes” or “including” shall not be considered to set forth an exhaustive list.

Section 1.7. Meaning of Discretion. In this Agreement, unless otherwise modified, the word “discretion” with respect to any Person means the sole and absolute discretion of such Person.

Section 1.8. Meaning of Notice. In this Agreement, the word “notice” means “written notice”, unless specified otherwise.

Section 1.9. Consents and Approvals. Unless specified otherwise, wherever the provisions of this Agreement require or provide for or permit an approval or consent by either Party, such approval or consent, and any request therefor, must be in writing (unless waived in writing by the other Party).

Section 1.10. Trade Meanings. Unless otherwise defined herein, words or abbreviations that have well-known trade meanings are used herein in accordance with those meanings.

Section 1.11. Laws. Unless specified otherwise, references to a Law are considered to be a reference to (i) such Law as it may be amended from time to time, (ii) all regulations and rules pertaining to or promulgated pursuant to such Law, (iii) the successor to the Law resulting from recodification or similar reorganizing of Laws and (iv) all future Laws pertaining to the same or similar subject matter.

Section 1.12. Currency. Unless specified otherwise, all statements of or references to dollar amounts or money in this Agreement are to the lawful currency of the United States of America.

Section 1.13. Generally Accepted Accounting Principles. All accounting and financial terms used herein, unless specifically provided to the contrary, shall be interpreted and applied in accordance with GAAP.

Section 1.14. Calculation of Time. For purposes of this Agreement, a period of Days shall be deemed to begin on the first Day after the event that began the period and to end at 5:00 p.m., which time shall be determined by the time in the City of Iowa City, Iowa on the last Day of the period. If, however, the last Day of the period does not fall on a Business Day, the period shall be deemed to end at 5:00 p.m., which time shall be determined by the time in the City of Iowa City, Iowa on the next Business Day.

Section 1.15. Approvals, Consents and Performance by the University.

- (a) *Procedures.* Wherever the provisions of this Agreement require or provide for or permit an approval or consent by the University of or to any action, Person, Document, or other matter contemplated by this Agreement, the following provisions shall apply: (i) such request for approval or consent must (1) contain or be accompanied by any documentation or information required for such approval or consent in reasonably sufficient detail, as reasonably determined by the University, (2) clearly set forth the matter in respect of which such approval or consent is being sought, (3) form the sole subject matter of the correspondence containing such request for approval or consent, and (4) state clearly that such approval or consent is being sought; (ii) such approval or consent shall not be unreasonably withheld, conditioned or delayed (unless such provision provides that such approval or consent may be unreasonably withheld, conditioned or delayed or is subject to the discretion of the University); (iii) the University shall advise the Concessionaire by written notice either that it consents or approves or that it withholds its consent or approval, in which latter case it shall set forth, in reasonable detail, its reasons for withholding its consent or approval, which reasons may include the insufficiency, as determined by the University acting reasonably, of the information or documentation provided; (iv) unless a time period is specifically set forth elsewhere herein, the University shall, within 10 Business Days after receipt of the Concessionaire's request, (1) provide the responding notice mentioned in clause (iii) of this Section 1.15(a) or (2) if the University determines in its discretion that additional time to consider such request would be appropriate due to the request's complexity or interrelationship with larger University issues, advise the Concessionaire by written notice of a reasonable timeframe (not to exceed 91 Days) in which the University will provide the responding notice mentioned in clause (iii) of this Section 1.15(a), which written notice shall extend the timeframe for Approval of the request to the timeframe set forth in such notice; (v) if the responding notice mentioned in clause (iii) of this Section 1.15(a) indicates that the University does not approve or consent, the Concessionaire may take whatever steps may be necessary to satisfy the objections of the University set out in the responding notice and, thereupon, may resubmit such request for approval or consent from time to time and the provisions of this Section 1.15 shall again apply; (vi) if the disapproval or withholding of consent mentioned in clause (iii) of this Section 1.15(a) is subsequently determined pursuant to Article 18 to have been improperly withheld or conditioned by the University, such approval or consent shall be deemed to have been given on the date by which such approval or consent should have been provided; provided that, to the extent any deadlines for performing

work are determined by reference to the date of consent or approval, such consent or approval shall be deemed to have been given on the date of determination rather than the date such consent or approval should have been provided; and (vii) for the avoidance of doubt, any dispute as to whether or not a consent or approval has been unreasonably withheld, conditioned or delayed shall be resolved in accordance with the provisions of Article 18. The Concessionaire shall submit any request for approval or consent to the University Liaison, who will direct such request to the appropriate committee, Person or group within the University.

- (b) *Approved Documents.* Subject to the other provisions hereof, wherever in this Agreement an approval or consent by the University is required with respect to any document, proposal, certificate, plan, drawing, specification, contract, agreement, budget, schedule, report or other written instrument whatsoever (a “Document”), following such Approval such Document shall not be amended, supplemented, replaced, revised, modified, altered or changed in any manner whatsoever without obtaining a further Approval in accordance with the provisions of this Section 1.15.

Section 1.16. Incorporation of Schedules. The Schedules are integral to, and are made a part of, this Agreement. In the event of any conflict between the terms of this Agreement and the terms of the Schedules, the terms of this Agreement shall control.

Section 1.17. References to Agreements Generally. References to agreements (including this Agreement) and other contractual instruments shall be deemed to include all amendments, restatements, extensions and other modifications to such instruments.

Section 1.18. Cost Responsibilities. In this Agreement, the phrases “at Concessionaire’s sole cost and expense”, “at Concessionaire’s cost and expense”, “the Concessionaire shall be responsible for providing”, “the Concessionaire shall pay” and similar phrases and provisions that require the Concessionaire to take certain actions or perform certain services, shall not mean that such costs or expenses, or the costs and expenses associated with such actions or activities, are necessarily subject to recovery as part of the Utility Fee or otherwise in accordance with this Agreement. The inclusion of such costs and expenses in the Utility Fee shall be determined in accordance with Schedule 5.

Section 1.19. Out-of-Pocket Costs. In this Agreement, any reference to “out-of-pocket” or “out of pocket” costs or expenses of the Concessionaire or Operator and similar phrases and provisions shall mean the reasonable, incremental actual costs paid by the Concessionaire or Operator to a third party that (i) is not an Affiliate of the Concessionaire, the Operator or any Equity Participant or (ii) is an Affiliate of the Concessionaire, the Operator or any Equity Participant, provided that the payments to such Affiliate are on arms’ length terms consistent with those terms offered by unaffiliated third parties for similar goods or services.

ARTICLE 2

THE TRANSACTION; CLOSING; CONDITIONS PRECEDENT; COVENANTS

Section 2.1. Grant of Concession. Upon the terms and subject to the conditions of this Agreement, effective at the Time of Closing, (a) the Concessionaire shall pay the University the exact amount of \$1,165,000,000 in cash (the “Closing Consideration”) in accordance with Section 2.2(a), (b) the University and the BOR shall demise and lease the Utility System Land and the Utility Facilities (other than the Independence Road Annex Space) and sublease the Independence Road Annex Space to the Concessionaire free and clear of Encumbrances other than Permitted University Encumbrances and on an exclusive basis, other than as expressly provided in this Agreement, for and during the term (the “Term”) commencing on the Closing Date and expiring on the 50th anniversary of the Closing Date (or such later date as may be required to effect a Delay Event Remedy but subject to earlier termination as provided in this Agreement), provided that such demise, lease and sublease (as applicable) of the Utility Facilities other than those located on the Utility System Land shall not prevent the University from using, occupying, developing, leasing or otherwise enjoying the real property and the improvements other than the Utility Facilities on which the Utility Facilities are located without the payment of any fee, charge or rent to the Concessionaire, (c) the University shall (i) grant the Concessionaire a non-exclusive license during the Term, appurtenant to the leasehold interest described in clause (i) above, to access the Public Way, solely in order to operate, maintain, repair, replace, improve and service the Utility Facilities located therein to the extent permitted or required under this Agreement, (ii) grant the Concessionaire, free and clear of any Encumbrances (other than Permitted University Encumbrances) an exclusive right for and during the Term to operate the Utility System (and any expansions, improvements or replacements thereto) and to provide Utility Services on the University Campus (except as expressly provided herein), and in connection therewith (A) to use, possess, control, operate, manage, modify, maintain and rehabilitate the Utility System; and (B) to charge the Utility Fee; and (iv) assign, transfer and otherwise convey to the Concessionaire by bill of sale each of the Utility System Assets identified on Schedule 3, free and clear of any Encumbrances (other than Permitted University Encumbrances) and the Concessionaire shall accept each such demise, lease, grant, assignment, transfer and conveyance and (d) the University and the Concessionaire shall execute the Main Campus Water Treatment Plant Sublease (collectively, the “Transaction”).

Section 2.2. Closing.

- (a) The closing of the Transaction (the “Closing”) shall take place on the date that is 90 Days after the date hereof, of which date the Concessionaire shall provide written notice to the University at least 20 Business Days prior thereto, or such other date as agreed in writing by the Concessionaire and the University (the “Closing Date”). The Closing shall be held at 2390 University Capitol Centre, 200 South Capitol Street, Iowa City, IA 52240 or such other place agreed to in writing by the University and the Concessionaire. At the Time of Closing, the Concessionaire shall deliver or cause to be delivered to the University same-day funds by wire transfer in the amount of the Closing Consideration (plus or minus, as appropriate, any adjustment in accordance with Section 2.2(b)), and upon receipt of such payment the Transaction shall be effective. The Concessionaire shall wire the Closing Consideration to bank account(s) and in increments

designated by the University. Upon receipt of the funds described in the preceding sentences in this Section 2.2(a), the University shall immediately cancel and return the Closing Deposit and the Cash Deposit (unless such Closing Deposit or Cash Deposit is applied against the Closing Consideration by the University in accordance with Section 2.3(c)), in accordance with the Concessionaire's instructions).

- (b) All Prorated Items shall be prorated between the University and the Concessionaire as of 11:59 p.m. on the Day immediately preceding the Closing Date based upon the actual number of Days in the month and a 365-Day year and the required payment resulting from such proration shall be added to or subtracted from the Closing Consideration as follows:
 - (i) At least 5 Days prior to the Closing, the University will provide to the Concessionaire an itemized statement of such Prorated Items, estimated in good faith as of the Closing and reasonably based on relevant billing information from third parties or (in the absence of such information) the University's financial statements as of June 30, 2019, and such statement shall be the basis of proration of any Prorated Items at the Closing and any resulting adjustment to the Closing Consideration in accordance with this Section 2.2(b);
 - (ii) Within 45 Business Days after the Closing, the University will provide to the Concessionaire a revised good-faith accounting of such Prorated Items as of the Closing in the form of an itemized statement of such Prorated Items (the "Revised Proration Statement");
 - (iii) Within 15 Business Days after the Concessionaire's receipt of the Revised Proration Statement, the Concessionaire will review the Revised Proration Statement and will notify the University of any adjustments made by the Concessionaire to the Revised Proration Statement in good faith;
 - (iv) To the extent the University disagrees with any of the Concessionaire's adjustments to the Revised Proration Statement, the University shall provide notice to the Concessionaire within 15 Business Days after the University's receipt of the Concessionaire's adjustments, and any disagreement shall be resolved in accordance with Article 18; and
 - (v) Upon final resolution with respect to the proration of each such Prorated Item (whether by agreement of the Parties or in accordance with Article 18), the Party that is determined to owe money pursuant to the proration of that Prorated Item shall pay to the other party the amount owed within 10 Business Days of such determination.

Section 2.3. Deposit.

- (a) The University acknowledges receipt from the Concessionaire of cash (the "Cash Deposit") and/or one or more Letters of Credit with a term of at least 210 Days

from the date hereof (the “Closing Deposit”), in an aggregate amount equal to \$100,000,000, to be held by the University for the sole purpose described in Section 2.3(b). The University shall deposit any Cash Deposit with the Escrow Agent, which shall invest such amount in Eligible Investments pending the Closing.

- (b) If the University terminates this Agreement pursuant to Section 2.4(d)(iv) (including as a result of the failure of the Concessionaire to pay the Closing Consideration at the Closing in accordance with the terms hereof so long as said failure is not the result of the University’s actions or omissions), then the University shall be entitled to (i) retain the Cash Deposit and all interest accrued thereon and, (ii) without notice to the Concessionaire, immediately draw the full amount of the Closing Deposit upon presentation of a sight draft and a certificate confirming that the University has the right to draw under the Closing Deposit in the amount of such sight draft, and the University shall be entitled to retain the Cash Deposit and all of the proceeds of the Closing Deposit, in each case as the sole remedy or right of the University against the Concessionaire hereunder (provided that this limitation shall not apply in the event of fraud or intentional misrepresentation of the Concessionaire); provided, however, that if this Agreement is terminated for any other reason prior to Closing, the University shall return any Cash Deposit and the interest earned thereon in accordance with the Concessionaire’s reasonable instructions, and deliver, in accordance with the Concessionaire’s reasonable instructions, the Closing Deposit and agree to cancel the Closing Deposit, in each case, immediately following any such termination. The Concessionaire acknowledges that the loss the University will incur in the event of a termination under Section 2.4(d)(iv) is difficult to ascertain, and that the University’s right to retain the Cash Deposit and to draw the Closing Deposit as set forth above is based on the Parties’ reasonable estimate, taking into account the magnitude of the Transaction and the other relevant considerations, as to such loss and is not intended as, and does not constitute, a penalty. Except in cases involving fraud or willful breach by the Concessionaire, the right of the University to retain the Cash Deposit or to draw the Closing Deposit is intended to be, and shall constitute, liquidated damages, and any payment thereof to the University shall terminate the University’s rights and remedies in all respects.
- (c) At the Closing, upon the satisfaction of the conditions set forth in Section 2.4(a), Section 2.4(b) and Section 2.4(c), the Concessionaire shall be entitled to, as applicable, (i) with respect to the Cash Deposit, (1) a full return of the Cash Deposit, if any, and all investment earnings accrued thereupon or (2) apply the Cash Deposit (including any accrued interest) as a credit against the Closing Consideration and (ii) with respect to the Closing Deposit, (1) a return of the Closing Deposit, (2) its cancellation or (3) its application as a credit against the Closing Consideration, in any case as directed by the Concessionaire prior to Closing.

Section 2.4. Conditions Precedent; Termination.

- (a) *Conditions for the Benefit of the Concessionaire.* The Concessionaire shall be obligated to complete the Closing only if each of the following conditions has been satisfied in full at or before the Time of Closing, unless waived by the Concessionaire:
- (i) the representations and warranties of the University set forth in Section 9.1 shall be true and correct in all material respects on and as of the date hereof and at and as of the Time of Closing with the same force and effect as if made at and as of such time and date except that (A) representations and warranties that by their terms speak only as of the date hereof or some other date need to be true and correct only as of such date and (B) those representations and warranties which are subject to a materiality or a Material Adverse Effect qualifier in Section 9.1 shall be true and correct in all respects on and as of the date hereof and at and as of the Time of Closing with the same force and effect as if made at and as of such time and date;
 - (ii) the University shall not be in material breach of any material covenant on its part contained in this Agreement which is to be performed or complied with by the University at or prior to the Time of Closing;
 - (iii) the University shall have obtained and delivered to the Concessionaire, at the expense of the Concessionaire, a commitment effective at the Time of Closing for a leasehold title policy or policies, in form and substance reasonably acceptable to the Concessionaire (which will include an endorsement with the terms of the leasehold coverage), proposing to insure the leasehold interest of the Concessionaire in the Utility System Land, to the extent of such leasehold interest, subject only to (A) Permitted University Encumbrances, (B) Permitted Concessionaire Encumbrances (other than the Permitted Concessionaire Encumbrances specified in clause (iv), clause (vii) and clause (ix) of the definition of “Permitted Concessionaire Encumbrances” as it pertains to clause (iii) of this Section 2.4(a)) and (C) any Encumbrances the Concessionaire is required to remove pursuant to Section 3.5(a) (the “Title Commitment”) from the Title Company, from which Title Company the Concessionaire shall purchase any leasehold or other title insurance that it elects to purchase in connection with the Transaction;
 - (iv) the University shall have delivered to the Concessionaire a legal opinion from the Office of the General Counsel of the University, in substantially the form attached hereto as Schedule 7;
 - (v) the University shall have executed and delivered to the Concessionaire (A) the assignments, transfers and conveyances contemplated by

Section 2.1, and (B) the consents and estoppel certificates contemplated by Section 10.2 and the consent agreement contemplated by Section 19.1(i);

- (vi) there shall not have occurred a material casualty loss, destruction or damage to, or condemnation of, the Utility System; provided, however, that as used in this Section 2.4(a)(vi), a material casualty loss, destruction or damage to, or condemnation of, the Utility System means the casualty, loss, damage, destruction or condemnation of the Utility System such that its annualized aggregated delivery capacity (calculated in British Thermal Units) for the electricity, steam, domestic water and chilled water portions of the Utility System has been reduced by at least 10% since the Setting Date;
 - (vii) from the Setting Date through and including the Time of Closing, no action or event has transpired that would have constituted an Adverse Action had it occurred during the Term;
 - (viii) all Authorizations set forth on Schedule 19 are in full force and effect and shall be transferred to the Concessionaire as of the Time of Closing;
 - (ix) the landlord under the Independence Road Annex Lease has consented to the sublease of the Independence Road Annex Lease to the Concessionaire; and
 - (x) there are no outstanding Tax-Advantaged Bonds of the University which are encumbered by, or are otherwise secured by, the revenues or other assets of any portion of the Utility System; and
 - (xi) the University shall have delivered to the Concessionaire a certificate confirming that each of the conditions set forth in Section 2.4(a)(i) through Section 2.4(a)(x) has been satisfied in full by the University (except for any condition that has been waived by the Concessionaire) at or before the Time of Closing.
- (b) *Conditions for the Benefit of the University.* The University shall be obligated to complete the Closing only if each of the following conditions precedent has been satisfied in full at or before the Time of Closing, unless waived by the University:
- (i) the representations and warranties of the Concessionaire set forth in Section 9.2 shall be true and correct in all material respects on and as of the date hereof and at and as of the Time of Closing with the same force and effect as if made at and as of such time and date except that (A) representations and warranties that by their terms speak only as of the date hereof or some other date need to be true and correct only as of such date and (B) those representations and warranties which are subject to a materiality or a Material Adverse Effect qualifier in Section 9.2 shall be true and correct in all respects on and as of the date hereof and at and as of

the Time of Closing with the same force and effect as if made at and as of such time and date;

- (ii) the Concessionaire shall not be in material breach of any material covenant on its part contained in this Agreement which is to be performed or complied with by the Concessionaire at or prior to the Time of Closing (including the obligation of the Concessionaire to pay the Closing Consideration at the Closing in accordance with the terms hereof);
 - (iii) the Concessionaire shall have delivered to the University a legal opinion of outside counsel to the Concessionaire, substantially in the form attached hereto as Schedule 8;
 - (iv) all Leasehold Mortgage Debt issued by the Concessionaire on or before Closing shall have a credit rating of at least investment grade as determined by at least one of the Credit Rating Agencies, except that some (but not all) of such Leasehold Mortgage Debt issued on or before Closing need not have a credit rating of at least investment grade as determined by at least one of the Credit Rating Agencies if such Leasehold Mortgage Debt is, within 6 months after Closing, either (i) completely repaid and retired or (ii) given a credit rating of at least investment grade as determined by at least one of the Credit Rating Agencies and, in either case, the Concessionaire has provided the University with Notice and reasonable proof thereof; and
 - (v) the Concessionaire shall have delivered to the University a certificate confirming that each of the conditions set forth in Section 2.4(b)(i) through Section 2.4(b)(iv) has been satisfied in full by the Concessionaire (except for any condition that has been waived by the University) at or before the Time of Closing.
- (c) *Mutual Conditions.* In addition, the University and the Concessionaire shall be obligated to complete the Closing only if each of the following conditions precedent has been satisfied in full at or before the Time of Closing, unless waived by both the University and the Concessionaire:
- (i) there shall be no preliminary or permanent injunction or temporary restraining order or other order issued by a Governmental Authority of competent jurisdiction or other legal restraint or prohibition enjoining or preventing the consummation of the Transaction; and
 - (ii) there shall be no action taken, or any Law enacted, entered, enforced or deemed applicable to the Transaction by any Governmental Authority of competent jurisdiction that, in any such case, has resulted or (in the case of any pending review or proceeding, if adversely determined) could reasonably be expected to result in such Governmental Authority conditioning or restricting the consummation of the Transaction in a

manner that would impose a material impairment on the Transaction or make the consummation of the Transaction illegal.

- (d) *Termination.* This Agreement may be terminated at any time prior to the Closing:
- (i) by mutual consent of the University and the Concessionaire in a written instrument;
 - (ii) by either the University or the Concessionaire, upon notice to the other Party, if any Governmental Authority of competent jurisdiction shall have issued an order, decree or ruling or taken any other action permanently restraining, enjoining or otherwise prohibiting the Transaction, and such order, decree, ruling or other action has become final and nonappealable; provided, however, that the right to terminate this Agreement under this Section 2.4(d)(ii) shall not be available to any Party whose failure to comply with any provision of this Agreement or other conduct has been the cause of, or results in such action;
 - (iii) by the Concessionaire, upon written notice to the University, if any condition set forth in Section 2.4(a) is not satisfied at the Time of Closing; provided, however, that the Concessionaire shall not have the right to terminate this Agreement under this Section 2.4(d)(iii) if (A) the Concessionaire shall have theretofore waived such condition, (B) the Concessionaire's failure to comply with any provision of this Agreement or other conduct has been the cause of, or resulted in, the failure of such condition or conditions to be satisfied or (C) any condition set forth in Section 2.4(b) is not satisfied at the Time of Closing;
 - (iv) by the University, upon written notice to the Concessionaire, if any condition set forth in Section 2.4(b) is not satisfied at the Time of Closing; provided, however, that the University shall not have the right to terminate this Agreement under this Section 2.4(d)(iv) if (A) the University shall have theretofore waived such condition, (B) the University's failure to comply with any provision of this Agreement or other conduct has been the cause of, or resulted in, the failure of such condition or conditions to be satisfied or (C) any condition set forth in Section 2.4(a) is not satisfied at the Time of Closing; or
 - (v) by either the University or the Concessionaire upon notice to the other Party if the Closing has not occurred within 20 Business Days after the Closing Date or such later date agreed to in writing by the Parties, provided that if the Closing has not occurred due to a Party's failure to satisfy the conditions precedent for the Closing for which such Party is responsible pursuant to this Section 2.4, that Party may not terminate this Agreement pursuant to this Section 2.4(d)(v).

- (e) *Effect of Termination.* In the event of termination of this Agreement by either the University or the Concessionaire as provided in Section 2.4(d), this Agreement shall forthwith become void and there shall be no liability or obligation on the part of the University or the Concessionaire or their respective Representatives, except as set forth in Section 2.3(b), this Section 2.4(e), Article 12, Article 18 and Article 19. In the event that the Concessionaire terminates this Agreement pursuant to Section 2.4(d)(iii) as a result of the failure of the University to satisfy any condition set forth in Section 2.4(a) (excluding Section 2.4(a)(vi) and Section 2.4(a)(vii), but, with respect to the exclusion of Section 2.4(a)(vii), only to the extent the event described in Section 2.4(a)(vii) was not an action taken by the University), the University will compensate the Concessionaire for up to \$2,000,000 of reasonable and documented out-of-pocket costs as well as reasonable internal costs (calculated based on the market rate for such costs) incurred by the Concessionaire or the Operator in connection with the Transaction, including the reasonable and documented out-of-pocket costs incurred by the Concessionaire to hedge interest rate costs between execution of this Agreement and Closing. In the event of any termination pursuant to Section 2.4(d)(i), Section 2.4(d)(ii), Section 2.4(d)(iii) or Section 2.4(d)(v), the Cash Deposit and all investment earnings accrued thereon shall be paid to the Concessionaire, and the Closing Deposit shall be returned undrawn to the Concessionaire marked canceled, as applicable.

Section 2.5. Covenants.

- (a) *Cooperation.* During the Closing Period, the Parties shall cooperate with each other in order to permit the Closing to be consummated on the Closing Date.
- (b) *Reasonable Efforts.* During the Closing Period, each Party shall use all reasonable efforts (i) to take, or cause to be taken, all actions necessary to comply promptly with all requirements under this Agreement and all legal requirements which may be imposed on such Party to consummate the Transaction as promptly as practicable, including making any necessary filings, and (ii) to obtain (and to cooperate with the other Party to obtain) any Consent of any Governmental Authority or any other public or private third party which is required to be obtained or made by such Party in connection with the consummation of the Transaction. Each Party shall promptly cooperate with and promptly furnish information to the other Party at such other Party's reasonable request in connection with any such efforts by, or requirement imposed upon, any of them in connection with the foregoing.
- (c) *Injunctions.* If any Governmental Authority of competent jurisdiction issues a preliminary or permanent injunction or temporary restraining order or other order before the Time of Closing which would prohibit or materially restrict or hinder the Closing, each Party shall use all reasonable efforts to have such injunction, decree or order dissolved or otherwise eliminated or to eliminate the condition that formed the basis for such injunction or order, in each case as promptly as possible and, in any event, prior to the Time of Closing.

- (d) *Operation of the Utility System.* During the Closing Period, the University shall operate the Utility System in the ordinary course in a manner consistent with past practice, which shall include using all reasonable efforts to preserve the goodwill of the Utility System and to maintain good business relationships with Persons having business dealings with respect to the Utility System, to maintain the Utility System in its existing operating condition and repair in accordance with past practice (ordinary wear and tear excepted), to perform (or cause to be performed) in all material respects all of the University's obligations under the Utility System Contracts, not to incur any Encumbrances on the Utility System (other than Permitted University Encumbrances) that are not satisfied by the Closing Date, and to cause the Utility System to be operated in all material respects in accordance with all applicable Laws (except to the extent any non-compliance is being contested in good faith by appropriate proceedings), all to the end that the Utility System as a going concern shall be unimpaired and delivered to the Concessionaire at the Time of Closing in a condition not materially worse than the condition as of the Setting Date, except for any damage by casualty or condemnation. The University, shall, up to and including the Time of Closing, be entitled to all of the cash or cash equivalents in or generated by the Utility System. The Concessionaire acknowledges that all receivables related to the Utility System in existence at the Time of Closing shall remain the property of the University and the Concessionaire shall transfer to the University any such receivables, existing up to and including the Time of Closing, received after the Closing Date within 30 Days after the Concessionaire's receipt of such receivables. Without limiting the foregoing, the University shall not, without the Concessionaire's approval, which shall not be unreasonably withheld, conditioned or delayed, (i) terminate, amend, modify or agree to a waiver of the terms of any Authorization related to the Utility System after the date hereof and before the Time of Closing, (ii) amend, modify, terminate or execute any Utility System Contracts or (iii) commence any Material Changes or Capital Improvements to the Utility System that are not (1) Ongoing Utility System Projects or (2) reasonably necessary to address an Emergency; provided, the Capped O&M Index for the Fiscal Year in which such Capital Improvements are made shall be increased by any amounts the Concessionaire can reasonably prove caused an increase in the Capped O&M Costs as a direct result of such Capital Improvement or Material Change made to address an Emergency without the Concessionaire's approval. Notwithstanding anything to the contrary in this Agreement, the University shall, on behalf of the Concessionaire, operate and maintain the Utility System through 11:59 p.m. on the Closing Date, so as to facilitate the transition of the operation of the Utility System in a timely and orderly manner. The Concessionaire shall be fully liable under this Agreement to perform the Utility Services after the Time of Closing.
- (e) *Utility System Contracts.* Except as set forth herein, the Utility System Contracts shall be assigned by the University to, and assumed by, the Concessionaire at the Time of Closing. All other contracts related to the operation of the Utility System shall either be retained by the University following the Closing Date (so long as such retained contracts do not interfere with the operation of the Utility

System) or be terminated by the University, effective at the Time of Closing; provided, however, that any liability under or related to any contract related to the Utility System (other than the Utility System Contracts) that is retained by the University following the Closing Date or terminated by the University on the Closing Date (including any liability resulting from the termination thereof), and any liability under or related to any Utility System Contract attributable to periods prior to the effectiveness of the assignment thereof to the Concessionaire, shall be solely for the account of the University. The Parties hereby acknowledge and agree that consents to the assignment of certain Utility System Contracts may not be received on or before the Time of Closing (the “Unassigned Contracts”). The Parties agree that each Unassigned Contract shall not be deemed assigned to the Concessionaire (and the Concessionaire shall not be liable under such Unassigned Contracts) until such time as the consent to the assignment has been obtained from the counterparty to such Unassigned Contract, at which time the Unassigned Contract will be automatically assigned by the University to the Concessionaire pursuant to the Assignment and Assumption Agreement, provided that the University shall remain liable for any obligations with respect to such Unassigned Contracts incurred prior to such assignment. The University shall use diligent efforts to cause the consents to the Unassigned Contracts to be obtained promptly following Closing through the end of the Post-Closing Transition Period. If any consent has not been obtained by the end of the Post-Closing Transition Period, despite the University’s diligent efforts, the University shall not be obligated to continue to seek such consent. For so long as such Unassigned Contracts are not assigned to the Concessionaire (including, to the extent that the University is permitted to no longer seek such consent in accordance with the preceding sentence, for a period up to the full term of such Unassigned Contracts), the University and the Concessionaire shall reasonably cooperate (i) to provide the Concessionaire the benefit of such Unassigned Contracts, including by delivering an amount equal to all revenue generated therefrom to the Concessionaire, and (ii) to exercise any rights relating to the counterparty’s failure to comply with the terms of its obligations to which the University may be entitled pursuant to the terms of such Unassigned Contracts. The University shall use reasonable efforts to document utility supply arrangements between the University and Third Party Customers for the utilities identified in the definition therefor (the “Third Party Customer Contracts”), in form and substance reasonably satisfactory to the Concessionaire and the University, with each Third Party Customer on or before the Time of Closing (to the extent that, as at the date of this Agreement, such Third Party Customer Contracts are not already documented in a form that is capable of being assigned to the Concessionaire). The Third Party Customer Contracts, if documented by the Time of Closing, shall be assigned by the University to, and assumed by, the Concessionaire at the Time of Closing. If, as part of the documentation of the Third Party Customer Contracts, the Third Party Customers are obligated to pay for services that the Concessionaire is already being compensated for pursuant to this Agreement, including by means of payment of the Utility Fee, then the University and the Concessionaire shall, in good faith, use commercially

reasonable efforts to modify the Utility Fee to account for such compensation so that the Concessionaire is not compensated twice for the same services. The Concessionaire acknowledges and agrees that it shall (I) perform all of its obligations under each Third Party Customer Contract, and (II) not make any material amendments to any third Party Customer Contract without the University's prior written consent, which shall not be unreasonably withheld, conditioned or delayed.

(f) *Disclosure of Changes.*

- (i) During the Closing Period, each Party shall immediately disclose in writing to the other Party any matter which becomes known to it which is inconsistent in any material respect with any of the representations or warranties contained in Article 9. No such disclosure, however, shall cure any misrepresentation or breach of warranty for the purposes of Section 2.4 or Article 12; and
- (ii) During the Closing Period, the University may supplement or amend the Disclosure Schedules hereto, including one or more supplements or amendments to correct any matter which would constitute a breach of any representation, warranty, covenant or obligation contained herein. No such supplement or amendment shall be deemed to cure any breach for purposes of Section 2.4(a) or, subject to the following sentence, for any other purpose. Notwithstanding the previous sentence, if the Closing occurs, then, subsequent to the Closing, any such supplement or amendment provided to the Concessionaire at least 10 Business Days prior to the Closing with respect to any representation or warranty contained in Section 9.1(d), Section 9.1(i), or Section 9.1(j) relating to a matter arising after the date hereof but before the Closing will be effective to cure and correct for all purposes any inaccuracy in, or breach of, such representation or warranty which would exist if the University had not made such supplement or amendment, and all references to any Disclosure Schedule hereto which is supplemented or amended as provided in this Section 2.5(f)(ii) shall (subject to the foregoing limitation) for all purposes after the Closing be deemed to be a reference to such Disclosure Schedule as so supplemented or amended.

- (g) *Access to Information and Pre-Closing Inspections.* During the Closing Period, but subject to confidentiality obligations binding on the University with respect to any Person (provided that the University has disclosed to the Concessionaire the existence of the applicable Document that is subject to such confidentiality limitation in order to enable the Concessionaire to evaluate the materiality and significance of the lack of disclosure based on such limitations), the University shall (i) give the Concessionaire and its Representatives reasonable access during normal business hours and on reasonable notice to the Utility System to perform inspections on the Utility System, subject to the University's policies and regulations regarding safety and security and any other reasonable conditions

imposed by the University, (ii) permit the Concessionaire and its Representatives to make such inspections as they may reasonably request in order to facilitate the transition of the use, operation, possession and control of the Utility System to the Concessionaire and (iii) furnish the Concessionaire and its Representatives with such financial and operating data and other information that is available with respect to the Utility System as they may from time to time reasonably request; provided that no inspections or the results thereof shall permit the Concessionaire to terminate this Agreement solely as a result thereof but shall not serve as a waiver of any of the Concessionaire's rights hereunder. The Concessionaire shall hold and shall cause its Representatives to hold in strict confidence all Documents and information concerning the Utility System to the extent and in accordance with the terms and conditions of the confidentiality agreement between the University and the Concessionaire in connection with the Transaction. After the Closing Date, the Concessionaire shall, at the request of the University, in connection with claims or actions brought by or against third parties based upon events or circumstances concerning the Utility System, (A) provide reasonable assistance in the collection of information or Documents and (B) make the Concessionaire's employees available when reasonably requested by the University; provided, however, that the University shall reimburse the Concessionaire for all out-of-pocket and documented costs and expenses incurred by the Concessionaire in providing said assistance and will not unduly interfere with the Concessionaire's operations.

(h) *Transition.*

- (i) During the Closing Period, the Parties shall cooperate with each other to ensure the orderly transition of control, possession, custody, operation, management and maintenance of the Utility System at the Time of Closing and to provide the services required to be performed under this Agreement. Such cooperation shall include the University making its employees reasonably available to the Concessionaire to assist in such transition at no out-of-pocket cost to the University. In order to assure such orderly transition and to provide information and Documents related to the Utility System Operations to the Concessionaire, the University shall use commercially reasonable efforts to exercise its rights under existing service agreements with service providers. After the Closing, the Parties shall continue to cooperate to ensure the orderly transition of control, custody, operation, management and maintenance of the Utility System, provided that no University employees shall work to operate the Utility System after the Closing, except to the extent expressly agreed by the University and the Concessionaire or as provided in Section 2.5(h)(ii).
- (ii) At the request of the Concessionaire, the University will use commercially reasonable efforts to provide to the Concessionaire, for up to 12 months after the Closing Date, the services of any University Utility System Employees and other employees of the University (who for the avoidance of doubt remain employees of the University at the time of such request).

The Concessionaire and the University agree that during the period of time that any services are performed by any University Utility System Employee or other employee of the University pursuant to this Section 2.5(h)(ii), the University Utility System Employees or such other employees shall continue to be employees of the University and not be employees of the Concessionaire. All such services shall be provided for an amount equal to the actual cost to the University (including employment costs and related overhead expenses allocable to such employees, as reasonably determined by the University), which amount shall be billed to the Concessionaire as soon as reasonably practicable following the end of each month and shall be payable by the Concessionaire within 30 Days of receipt of any such statement, and upon such other reasonable terms and conditions as the University and the Concessionaire may agree; provided, however, that such statement shall show in reasonable detail the hours worked and hourly rate of each such University Utility System Employee or other employee by the University and the amount of overhead expenses allocated to each such University Utility System Employee or other employee by the University.

- (i) *Casualty Loss Prior to Closing.* If between the Setting Date and the Time of Closing, a casualty loss, destruction or damage to, or a condemnation of, the Utility System or a portion thereof has occurred, unless this Agreement has been terminated under Section 2.4(d), then the University shall, at its option, either (i) promptly and diligently repair and rebuild the affected parts of the Utility System to restore them to at least the same condition in which they were before the occurrence of such casualty loss, destruction, damage or condemnation to the extent reasonably practicable, provided that if the affected parts of the Utility System cannot prior to the Closing Date be repaired or rebuilt to restore them to at least the same condition in which they were before the occurrence of such casualty loss, destruction, damage or condemnation, the University shall make such repairs or restoration as can reasonably be completed prior to the Closing Date and shall provide to the Concessionaire a plan for the completion of such remaining repairs or restoration following the Time of Closing at the University's expense and shall then complete such repairs or restoration (to the extent reasonably practicable) in accordance with such plan, or (ii) authorize the Concessionaire to repair the Utility System and assign to the Concessionaire all insurance, condemnation and other proceeds (if any) payable by third-party insurers or other third parties in respect of such casualty loss, destruction, damage or condemnation and enforce (with the cooperation of the Concessionaire) all of its rights, remedies and privileges under any applicable insurance policies with third-party insurers, the costs of which shall not be included in the Variable Fee Component or the Utility Fee; provided that if no insurance exists or such insurance or condemnation proceeds are not sufficient to repair and rebuild the affected parts of the Utility System to its prior condition, then the University shall reimburse the Concessionaire for that amount representing the difference between the out-of-pocket cost to repair and the amount of any insurance or condemnation proceeds received by the

Concessionaire. It shall not be a Concessionaire Default for the inability of the Concessionaire to meet any obligation hereunder as a direct result of such casualty loss, destruction, damage or condemnation unless the University has elected to authorize the Concessionaire to repair the Utility System pursuant to clause (ii) of this Section 2.5(i) and the Concessionaire is not diligently repairing or restoring the Utility System and any work performed by the University or by the Concessionaire after the Closing Date in order to repair or rebuild the Utility System to at least the same condition in which they were before the occurrence of such casualty loss, destruction, damage or condemnation shall constitute a Delay Event, provided if the Concessionaire is undertaking such work, it shall do so diligently to be completed as soon as reasonably practicable.

- (j) *Policies of Insurance.* During the Closing Period, the University shall continue in force all applicable policies of insurance maintained by the University in respect of the Utility System. Except to the extent the University is required to maintain such policies of insurance in accordance with Article 13, at the Time of Closing, all such policies of insurance shall terminate and the Concessionaire shall be responsible for obtaining insurance for the Utility System in accordance with the terms hereof.
- (k) *Employees.* Prior to the Time of Closing, the Concessionaire shall use its best efforts to or cause the Operator to interview all University Utility System Employees who apply for a position with the Concessionaire or the Operator, as the case may be. If either the Concessionaire or the Operator makes any offer of employment to any such individual, such offer shall contain only the terms and conditions of employment that the Concessionaire or the Operator, as the case may be, deems to be appropriate in its discretion, except that the Concessionaire or the Operator, as the case may be, shall include wages, benefits and other terms and conditions of employment that are at a minimum, comparable, in the aggregate, to the wages, benefits and other terms and conditions of employment such University Utility System Employee received as an employee of the University immediately prior to the Closing, it being acknowledged that there are certain benefits that the University currently provides that the Concessionaire cannot provide. Any and all employees of the Concessionaire and the Operator shall have met all reasonable background inspection and security requirements of the University, as promulgated from time to time. The Concessionaire shall be obligated to permit each University Utility System Employee who accepts any offer of employment from the Concessionaire or the Operator to transfer to his or her employment with the Concessionaire or the Operator up to 320 hours of accrued vacation or personal time off that such University Utility System Employee accrued and had not used while employed by the University. Any such accrued vacation or personal time off beyond 320 hours for a University Utility System Employee will be paid out to the University Utility System Employee by the Concessionaire or the Operator at the commencement of their employment with the Concessionaire or the Operator. All accrued and unused sick time for any University Utility System Employee (who is hired by the Concessionaire or the Operator) that accrued during his or her employment with

the University will be transferred to such University Utility System Employee's employment with the Concessionaire or the Operator. Further, the Concessionaire and the Operator will honor seniority amongst the University Utility System Employees as it relates to accrual rates for vacation and personal time off, providing at least 3 weeks per annum to employees with 0-4 years of service, at least 4 weeks per annum for employees with 5-19 years of service and 5 weeks to employees with 20 or more years of service, in each case taking into account any service time with the University. Nothing in this Agreement shall be construed or is otherwise intended to create joint employment by the University and the Concessionaire and/or the Operator, as the case may be, of the employees of the Concessionaire or the Operator; the Concessionaire or the Operator, as the case may be, shall have the right and obligation to supervise and direct the work of its employees.

- (l) *Office / Storage Space.* To the extent requested by the Concessionaire in writing prior to the Closing Date, the Parties shall use reasonable efforts to enter into a commercially reasonable lease agreement prior to the Closing Date with respect to the lease of office and/or storage space by the University to the Concessionaire within a location on the University Campus at the then applicable University rental rates as established by the University from time to time, subject to availability of such space as determined by the University in its discretion; provided, however, that the execution and delivery of such lease agreement shall not be a condition precedent to Closing.
- (m) *Ongoing Utility System Projects.* The University shall continue the construction of the Ongoing Utility System Projects, in accordance with applicable Law, until they have been completed in substantial accordance with the plans for such Ongoing Utility System Projects as of the Setting Date, provided that the University may, upon written notice to the Concessionaire, abandon or modify any or all Ongoing Utility System Projects. To the extent that the construction or completion of any Ongoing Utility System Project requires access to the Utility System, the Concessionaire hereby grants a non-exclusive license to the University to so access the Utility System as necessary to complete such Ongoing Utility System Projects and shall reasonably cooperate with the University with respect to the completion of the Ongoing Utility System Projects, which cooperation shall include (i) providing the University with notice if the Concessionaire becomes aware of any deviation from the University's approved plans and specifications for the applicable Ongoing Utility System Project and (ii) directing the University's Contractors to stop any work on the Ongoing Utility System Project if the Concessionaire reasonably believes that continuing such work would constitute an Emergency. Upon completion of an Ongoing Utility System Project, the University shall (i) deliver the Concessionaire written notice thereof, and, at such time, that Ongoing Utility System Project shall become part of the Utility System and the Concessionaire shall be granted a leasehold interest therein and (ii) either (A) assign the Concessionaire (or one or more third parties at the Concessionaire's direction,) all contractors' warranties held by the University with respect to such Ongoing

Utility System Project or (B) to the extent the University chooses not to so assign such warranties or such warranties are not so assignable, cooperate with the Concessionaire to provide the benefit of such warranties to the Concessionaire (or one or more third parties at the Concessionaire's direction). The University shall name the Concessionaire as an additional insured on its insurance policies with respect to those Ongoing Utility System Projects. For the avoidance of doubt, Ongoing Utility System Projects shall not be considered New Approved Capital Improvements. If the University elects to abandon an Ongoing Utility System Project, the Capped O&M Index shall be increased for the Fiscal Year in which such Capital Improvement is abandoned by the additional annual O&M Costs that the Concessionaire is required to incur due to the abandonment of such Ongoing Utility System Project, provided the Concessionaire provides reasonable proof of such additional O&M Costs and that such O&M Costs were unavoidable. If the University does not complete the construction and installation of the boiler described as Project #0647205 in Schedule 11 by the Closing Date, then the University shall continue to rent the existing temporary boiler that is being used in lieu of the boiler described as Project #0647205 in Schedule 11, at the University's sole cost and expense, and shall license to the Concessionaire the right to use, access and maintain such temporary boiler as part of the Utility System until such time as Project #0647205 in Schedule 11 is completed, at which time the University may disconnect and remove such temporary boiler at its cost and expense.

Section 2.6. Intended Treatment for Federal and State Income Tax Purposes.

(a) *Tax Treatment.*

- (i) The Parties intend for United States federal and state income Tax purposes that (A) the Closing Consideration will be treated as a payment and consideration for (I) the sale of the Utility System Assets and Utility Facilities, (II) a lease of the Utility System Land to the Concessionaire and (III) the grant to the Concessionaire of the exclusive right to provide the Utility Services to the University Campus in accordance with this Agreement; and (B) the Utility Fee is a separate fee and payment from the Closing Consideration and is not a payment for the sale of assets and lease described in Section 2.6(a)(i)(A) or otherwise but is in consideration of the services provided hereunder by the Concessionaire to the University.
- (ii) Notwithstanding Section 2.6(a)(i), this Section 2.6 only sets forth the intentions and agreements of the Parties with respect to United States federal and state income Tax purposes, and no provision of this Agreement is intended to, or shall in any way, transfer any fee interest in real property or improvements comprising the Utility System to the Concessionaire for purposes of the provisions of the Iowa Code governing legal title to real property or the common law of Iowa or any other purpose whatsoever other than for United States federal and state income Tax purposes as described above.

- (iii) The Parties believe that the Closing Consideration is a reasonable payment for the sale and lease of the assets and the grant of the right referred to in Section 2.6(a)(i)(A) based on the fair market value of those assets and such right and that the Utility Fee is a reasonable fee based upon the fair market value of the services provided hereunder by the Concessionaire to the University with respect to providing the services hereunder to the University and is in consideration thereof.
 - (iv) Subject to and consistent with Section 2.6(b) and Section 2.6(c), the University and the Concessionaire agree that the Closing Consideration will be allocated among the assets and rights that the Concessionaire is obtaining the use of pursuant to this Agreement using the residual allocation provisions of Section 1060 of the Code as provided therein and otherwise consistent in all respects with Schedule 20.
 - (v) Any Concession Compensation paid to the Concessionaire hereunder shall be deemed an adjustment to the Utility Fee for tax purposes and shall not be deemed to be an adjustment to the Closing Consideration related to the sale and lease of the assets described in Section 2.6(a)(i)(A).
 - (vi) The Parties intend that this Agreement will be treated as a service contract pursuant to Section 7701 of the Code with respect to the services provided hereunder by the Concessionaire to the University with respect to the Utility System, and the Parties shall use commercially reasonable efforts to cause such treatment under Section 7701 of the Code and shall not file any tax returns inconsistent with such treatment, except as required by Law.
 - (vii) The Parties intend that the University shall be considered the owner of all Capital Improvements made pursuant to this Agreement for GAAP accounting purposes, provided that the Parties intend that the Concessionaire shall be treated as having a depreciable interest in all such Capital Improvements made by the Concessionaire during the Term for federal and state income Tax purposes.
 - (viii) Notwithstanding the foregoing, if a Governmental Authority treats the Transaction, or any portion thereof, differently for state or federal Tax purposes, that shall not impact, affect, modify or alter either Party's obligations hereunder.
- (b) *Payment.* For purposes of Section 467 of the Code, and the Treasury Regulations promulgated thereunder, on the Bid Date the Concessionaire has provided to the University a schedule, (i) allocating the Closing Consideration attributable to the lease of the Utility System Land and the Utility Facilities described in Section 2.6(a)(i)(A)(II) in equal amounts for each annual rental period; and (ii) demonstrating that such amounts bear "adequate interest" within the meaning of Treasury Regulation Section 1.467-2(b)(1)(ii) for each rental

period, and prior to the execution of this Agreement, the University and the Concessionaire have agreed on such schedule, which shall not thereafter be modified or altered by the Concessionaire without the Approval of the University. Such schedule shall constitute a specific allocation of such amounts for purposes of Section 467 of the Code. The University and the Concessionaire hereby agree to reasonably cooperate to modify the schedule referred to above if the amount of rental payments on which such schedule is based changes after the date such schedule is Approved or there is any other modification to the lease after the date thereof for which it would be advisable in the Concessionaire's reasonable discretion (after good faith consultation and discussion with the University) to modify such schedule. Notwithstanding the foregoing allocation, except as set forth above, all such rental payments shall constitute a rental paid under a triple net lease which is non-refundable. If the University files a tax return for federal income tax purposes, the University shall, in such return, treat the Closing Consideration in a manner consistent with the allocation set forth in this Section 2.6(b).

- (c) *Allocation.* The Concessionaire has provided to the University, on the Bid Date, a schedule reflecting a reasonable allocation of the Closing Consideration (and all other capitalized costs) among the acquired assets in accordance with Section 1060 of the Code and the applicable Treasury Regulations for the University's Approval, and the University and the Concessionaire have agreed on such schedule, which is attached hereto as Schedule 20, which shall not thereafter be modified or altered by the Concessionaire without the Approval of the University. The University shall file all federal and state income tax returns in a manner consistent with the allocation set forth on Schedule 20. Each of the Concessionaire and the University acknowledges that the leasing of certain assets included in the Utility System as provided under this Agreement may result in the transfer of the tax ownership of such assets from the University to the Concessionaire.

Section 2.7. Closing Deliveries. At the Time of Closing, each Party shall execute and deliver all assets, agreements, bills of sale, assignments, endorsements, instruments and Documents as are reasonably necessary in the opinion of the other Party to effect the Transaction (and in form and substance that are reasonably satisfactory to such other Party).

Section 2.8. Memorandum of Lease. At the Time of Closing, the Parties shall execute and deliver a memorandum of lease (the "Memorandum of Lease") in the form attached hereto as Schedule 13, which shall be recorded in the Johnson County Recorder's Office. To the extent that changes are made to this Agreement with respect to the Term, leased property or other material matters set forth in the recorded Memorandum of Lease, including the removal of property from service by the Utility System in accordance with Section 5.3, the Parties shall timely (and in no event longer than 10 Days after a request therefor) execute, deliver and record an amendment to the recorded Memorandum of Lease reflecting such changes. The Parties acknowledge that for purposes of recordation, a description of certain portions of the Utility System constituting Utility Facilities that are a real property interest, are depicted specifically but are recorded generally against the plat in which such Utility Facility is located. Each party shall

have the right, from time to time, at its cost and expense to further refine by a metes and bounds legal description the specific location of the applicable Utility Facility, and subject to the other Parties' reasonable approval, may modify the Memorandum of Lease by recording an amendment thereto that shows the refined location description. In such instance, the modification to the Memorandum of Lease, is subject to the other Party's reasonable approval, and both Parties shall sign consent to the recording of the Memorandum of Lease upon its approval. The Parties agree not to record this Agreement itself.

Section 2.9. No Return of Closing Consideration. The Concessionaire shall have no right to have the Closing Consideration returned to it or refunded at any time after Closing, provided that, for the avoidance of doubt, this Section 2.9 shall not prohibit, preclude or adversely affect the Concessionaire's rights to compensation expressly set forth herein, including the right to receive the full Utility System Concession Value in those instances expressly set forth herein.

ARTICLE 3 TERMS OF THE CONCESSION

Section 3.1. Quiet Enjoyment and Present Condition.

- (a) *Quiet Enjoyment.* Each of the University and the BOR (as applicable) agrees that, subject to the University's or the BOR's remedies (as applicable) upon a Concessionaire Default, the Concessionaire shall, at all times during the Term, be entitled to and shall have quiet enjoyment of the Utility System and the rights and privileges granted to the Concessionaire hereunder, subject to the provisions contained in this Agreement and the rights of other parties to use the Tunnels. The University, the BOR and the Concessionaire acknowledge that the Concessionaire's rights to use, control and possess the Utility System and to collect and retain the Utility Fee are subject to the right of the University, in accordance with the terms of this Agreement, to monitor compliance with this Agreement to ensure that the Utility System is used and operated as required by this Agreement. Any entry by the University, the BOR or their Representatives onto the Utility System required or permitted under this Agreement shall not constitute a reentry, trespass or a breach of the covenant for quiet enjoyment contained in this Agreement. The University and the BOR shall, at all times during the Term, defend its respective fee or leasehold interest title, as the case may be, to the Utility System, the Concessionaire's leasehold interest in and to the Utility System and the rights granted to the Concessionaire hereunder, or any portion thereof, against any Person claiming any interest adverse to the University, the BOR or the Concessionaire in the Utility System, or any portion thereof, except where such adverse interest arises as a result of the act, omission, negligence, misconduct or violation of Law of the Concessionaire, its Affiliates or their respective Representatives.
- (b) *Present Condition.* Subject to Section 2.5(i) and except as specifically set forth herein, the Concessionaire understands, agrees and acknowledges that the Concessionaire (i) by the execution of this Agreement, agrees to accept the

Utility System “AS IS” at the Time of Closing and (ii) has inspected the Utility System and is aware of its condition and acknowledges that the University neither has made nor is making any representation or warranty, other than as expressly set forth herein, express or implied, regarding the condition of the Utility System (or any part thereof) or its suitability for the Concessionaire’s proposed use, provided that nothing in this Section 3.1(b) shall preclude the Concessionaire from making repairs or replacements or Capital Improvements to the Utility System in accordance with the terms of this Agreement (including, for the avoidance of doubt, the provisions regarding Approval of Capital Improvements set forth in Section 4.3 and the provisions regarding inclusion of New Approved Capital Improvements and O&M Costs in the calculation of the Utility Fee in accordance with Schedule 5) as a result of the Utility System’s condition at the Time of Closing.

- (c) *Legal Title to Real Property and Improvements.* For the avoidance of doubt, and notwithstanding anything to the contrary contained in Section 2.6, all real estate and improvements now or hereafter forming part of the Utility System shall be the fee-owned property of the State of Iowa, owned for the benefit of the University for GAAP and state law purposes, and are subject to the terms and conditions of this Agreement.

Section 3.2. Utility System Operations.

- (a) *Use.* Except as otherwise specifically provided herein, the Concessionaire shall, at all times during the Term, (i) be responsible for all aspects of the Utility System Operations, including providing the Utilities from temporary sources for construction projects and special events as identified by the University and (ii) maintain and operate the Utility System and cause the Utility System Operations to be performed in accordance with the provisions of this Agreement, including the Performance Standards, Prudent Industry Practices and applicable Law. In connection with such maintenance, the Concessionaire may contract with a third party for certain tasks, such as janitorial services. Except for such additional purposes permitted pursuant to Section 3.15(c), the Concessionaire shall, at all times during the Term, cause the Utility System to be used exclusively for the Utility System Purposes and continuously open and operational for the Utility System Purposes in accordance with the Performance Standards. Notwithstanding the foregoing, the Concessionaire may cease keeping the Utility System or a portion thereof continuously open and operational for the Utility System Purposes (A) as specifically permitted under this Agreement, (B) as required by applicable Law, (C) as necessary to comply with any other requirement of this Agreement (including closures related to the performance of Capital Improvements or maintenance or repair activities as required by the Performance Standards), (D) as necessary for a Delay Event or (E) as necessary for temporary closures required to address Emergencies or public safety; provided, however, that in the event of any temporary suspension of Utility System Operations pursuant to any of clauses (A) through (E) of this

Section 3.2(a), such suspension shall be limited as much as practicable so as to allow all other Utility System Operations to continue.

- (b) *University Campus.* Notwithstanding anything to the contrary contained herein, the Concessionaire shall operate the Utility System and provide the Utility Services in a manner that does not interfere with or impair the operation of the University Campus or any other real property owned by or for the benefit of the University, including any special events conducted on the University Campus. Except in the case of an Emergency, if the Concessionaire, in performing the Utility System Operations, determines it is reasonably necessary to disturb any portion of the University Campus or any other real property owned by or for the benefit of the University, including the Tunnels but excluding the Utility System Land, it shall, to the extent possible given the circumstances, provide the University at least 10 Business Days' prior written notice and the Concessionaire shall comply with any reasonable requirements or restrictions on such disturbance imposed by the University, including limiting the time in which the Concessionaire can so disturb the portion of the University Campus or any other real property owned by or for the benefit of the University to specific hours. In accessing any portion of the University Campus or any other real property owned by or for the benefit of the University pursuant to its rights hereunder, the Concessionaire shall also abide by any restrictions and requirements generally imposed by the University on such access, as communicated to the Concessionaire from time to time. To the extent that, in operating and maintaining the Utility System, the Concessionaire damages any portion of the University's real or personal property, including the landscape of the University Campus or any other real property owned by or for the benefit of the University, the University's outdoor lighting, traffic signals, irrigation equipment and communications equipment and such damage was not (i) Approved by the University in accordance with this Agreement or (ii) included as part of the scope of work Approved by the University related to such operations and maintenance, the Concessionaire shall promptly cause such property to be repaired to substantially the same or, solely at the Concessionaire's election, better condition that existed prior to such damage, and the cost incurred therewith shall not be included in O&M Costs or otherwise recovered as a part of the Utility Fee provided, however, that the Concessionaire shall be entitled to make a claim on any applicable Concessionaire Required Coverage.
- (c) *Costs and Expenses.* Except as otherwise specifically provided herein, the Concessionaire shall, at all times during the Term, pay or cause to be paid all costs and expenses of the Utility System Operations as and when the same are due and payable.
- (d) *Assumed Liabilities and Excluded Liabilities.* The Concessionaire agrees to assume and discharge or perform when due all debts, liabilities and obligations whatsoever relating to the Utility System or the Utility System Operations that occur, arise out of or relate to, or are based on facts or actions occurring during the Term but only to the extent such debts, liabilities or obligations do not arise

from or relate to any breach by the University of any covenant, representation or warranty set forth in this Agreement (collectively, the “Assumed Liabilities”); provided, however, that the Assumed Liabilities shall not include, and the University or the BOR (as applicable) shall perform or cause to be performed and discharge or cause to be discharged as and when due, any debts, liabilities and obligations (i) with respect to the University’s or the BOR’s respective obligations under this Agreement, (ii) arising out of the Utility System or any Utility System Operations (including with respect to any Utility System Contracts or University Utility System Employee) prior to the Time of Closing (or with regards to Unassigned Contracts, prior to the time of assignment), (iii) arising under any Environmental Law and related to (1) the ownership, operation or condition of the Utility System prior to the Time of Closing or (2) the Release on or from, presence on or in, or other existence on the Utility System or its subsurface of any Hazardous Substance at any time prior to the Time of Closing and including (A) the abatement, handling, disposal or removal of any asbestos present at the Time of Closing in the Utility System as required by any Environmental Law in connection with the repair, maintenance, operation or construction activities permitted or required to be performed under this Agreement and (B) any known or unknown environmental conditions relating to the Utility System or its subsurface that existed prior to the Time of Closing the manifestation of which occurs following the Time of Closing, which environmental obligations the University or the BOR (as applicable) shall perform and discharge when due, except in any case to the extent exacerbated by the Concessionaire or its Representatives or caused by any action of the Concessionaire or its Representatives, (iv) arising out of the University’s rights under this Agreement to test, inspect, audit, repair, maintain or operate the Utility System without impairment of the University’s remedies for a Concessionaire Default and (v) with respect to the Ongoing Utility System Projects that have not yet become a part of the Utility System in accordance herewith (collectively, the “Excluded Liabilities”).

- (e) *Right of Entry and Access to the Public Way.* Subject to Section 3.19, the University and the BOR (where applicable) hereby grants to the Concessionaire and its Representatives a non-exclusive license to enter upon, in, under, over and across the Public Way to such extent and at such times as shall be necessary or desirable for the Concessionaire to access the Utility System in order to conduct Utility System Operations, including operating, maintaining, inspecting, repairing and managing Utility System properties, including the Utility System Assets and all supporting structures and appurtenances thereto, and installing monitoring or observation technology or equipment reasonably necessary for Utility System Operations. The rights granted pursuant to this Section 3.2(e) do not include the right to block, impede or otherwise obstruct traffic on the Public Way, and the Concessionaire shall, enter, access and perform work in, on or over the Public Way in accordance with the Performance Standards. The rights granted to the Concessionaire under this Section 3.2(e) neither create an interest in real property nor do they create a priority in favor of the Concessionaire over any other user of such areas and are subject to the Performance Standards and all

provisions of Law relating to the conduct of a private business or franchise in the Public Way.

- (f) *Mapping and Marking.* The Concessionaire shall be responsible for marking and mapping all portions of the Utility System in accordance with the Performance Standards.
- (g) *Deemed Planned Outage.* The Concessionaire shall have the right to propose to shut down a portion of the Utility System such that such portion shall not transmit Utilities provided by that portion of the Utility System if the Concessionaire reasonably believes that such a shutdown will avoid additional costs in excess of the costs of such shutdown or lengthier shutdowns of the Utility System or a portion thereof later. If the University Liaison agrees to such shut down (which agreement must be in writing or by e-mail from the University Liaison), then it shall be treated as a Planned Outage. The University Liaison may make this determination in its sole discretion. If the University Liaison does not Approve such shutdown, then it will be considered an Unplanned Outage if the Concessionaire elects to proceed with such shutdown.
- (h) *Emergency Shutdown.* If there is a circumstance where the continued operation of a portion of the Utility System creates an Emergency (other than an Unplanned Outage), then the Concessionaire shall have the right, directly or through its automatic protection system or the Operator, to shut down the applicable portion of the Utility System to address such circumstance, provided that the Concessionaire shall comply with the provisions of Section 8.1 and the relevant portion of the Performance Standards, as if such shutdown were an Unplanned Outage. The Concessionaire shall perform the corrective action to address such circumstance as soon as reasonably practicable. Within 10 Business Days after the shutdown and repair of the applicable portion of the Utility System, the Concessionaire shall provide the University with pertinent information on such circumstance and such other relevant information within the Concessionaire's possession or control that is requested by the University, and the University shall determine, in its reasonable judgment, whether such shutdown shall constitute an Unplanned Outage for purposes of determining the applicable Key Performance Indicator. For the avoidance of doubt, such determination shall not affect the Concessionaire's obligation to treat such shutdown as an Unplanned Outage for purposes of compliance with the Performance Standards.

Section 3.3. Operator.

- (a) *Engagement.* The Utility System Operations shall, at all times during the Term, be under the direction and supervision of an active operator with the expertise, qualifications, experience, competence, skills and know-how to perform the Utility System Operations in accordance with this Agreement and Prudent Industry Practices (an "Operator") who may be (but is not required to be) the Concessionaire itself. The Operator on the first Day of the Term shall be the

Concessionaire unless the Concessionaire has designated another Person to be the Operator and such Person has been Approved in accordance with Section 3.3(b). The Concessionaire shall not engage or appoint a replacement Operator unless the University has Approved such Operator; provided, however, that a Change in Control of an Operator shall be deemed to be the appointment of a replacement Operator subject to the University's Approval; provided, further, that for purposes of this Section 3.3(a), the definition of "Equity Participant" and clauses (a) through (g) of the definition of "Change in Control" shall be read and apply as though "Operator" were substituted for "Concessionaire"; provided, further, that if the University does not provide the Concessionaire with the relevant Approval, the Concessionaire shall be entitled to appoint an interim Operator for a period of up to 180 Days from the date of appointment of such interim Operator. This interim Operator may be selected without Approval by the University so long as the Concessionaire reasonably determines that the interim Operator meets the following criteria: (A) the interim Operator has experience in operating Comparable Utility Systems and (B) the interim Operator (or any guarantor of its obligations) has a tangible net worth reasonably sufficient to carry out its obligations and responsibilities as Operator. The Concessionaire shall not extend the term of any interim Operator beyond 180 consecutive Days or appoint a successor interim Operator after such 180-Day period. The Operator shall at all times be subject to the direction, supervision and control (by ownership, contract or otherwise) of the Concessionaire, and any delegation to an Operator shall not relieve the Concessionaire of any obligations, duties or liability hereunder. The Concessionaire shall immediately notify the University upon the termination or resignation of an Operator. The rights of the Operator regarding the continued operation of the Utility System shall terminate without penalty at the election of the University or the Operator upon 5 Business Days' notice to such Operator or the University, as applicable, upon the termination of this Agreement. Except as otherwise expressly set forth herein, the Operator shall have no interest in, or rights under, this Agreement or the Utility System unless the Operator is the Concessionaire itself.

- (b) *Approval.* The University's Approval of a proposed replacement Operator may be withheld only if the University reasonably determines that the engagement of such proposed Operator is prohibited by applicable Law or such proposed Operator is not capable of performing the Utility System Operations in accordance with this Agreement and Prudent Industry Practices, which determination shall be based solely upon one or more of the following factors: (i) the ability of the Operator to operate the Utility System in a manner that complies with the Performance Standards; (ii) the financial strength, capitalization and integrity of the proposed Operator, its direct or indirect beneficial owners and some or all of their respective Affiliates providing a guaranty of the Operator's obligations; (iii) the experience of the proposed Operator in operating Comparable Utility Systems; (iv) the background and reputation of the proposed Operator, its direct or indirect beneficial owners, each of their respective officers, directors and employees and each of their respective

Affiliates (including the absence of criminal, civil or regulatory claims or actions against any such Person and the quality of any such Person's past or present performance on other projects); and (v) the proposed terms of the engagement of the Operator.

(c) *Removal.*

- (i) If the Operator fails to operate the Utility System in compliance with the Performance Standards or fails to meet the Target for any Key Performance Indicator, and
 - (A) such failure is the material breach of a material requirement of the Performance Standards other than a requirement that is also a Key Performance Indicator, the University may provide written notice to the Operator and the Concessionaire setting forth such failure. If the Operator does not cure such failure within 30 Days of said written notice (or, if such cure or correction cannot reasonably be accomplished during such 30-Day period, within such longer period as is reasonably required to accomplish such cure or correction, provided the Concessionaire has commenced such cure or correction within 30 Days of said written notice and diligently prosecutes the same to completion), then (i) the University may, upon notice to the Concessionaire, (A) cure any such failure and (B) the Concessionaire shall reimburse the University any and all costs related to such cure and/or correction; and (ii) the University may direct that the Concessionaire remove the Operator pursuant to the written order of senior University officials designated by Board of Regents of the University in writing for such purpose or otherwise with respect to assessing the performance of the Operator (the "Senior Officials"); or
 - (B) such failure results in an Emergency, then the University may, upon notice to the Concessionaire, (i) immediately cure any such failure after endeavoring to provide the Concessionaire notice appropriate under the circumstances (which may include telephone notice) and (ii) the Concessionaire shall reimburse the University any and all costs related to such cure and/or correction.
- (ii) Notwithstanding the foregoing, if (A) within any Operator Evaluation Period, at least 3 Repetitive Failures occur, (B) a Major KPI Event for the same Key Performance Indicator occurs for 3 consecutive Fiscal Years or (C) 3 Major KPI Events occur in any given Fiscal Year, then the University, in addition to its right to KPI Compensation, may direct that the Concessionaire remove the Operator pursuant to the written order of the Senior Officials.

- (iii) The University shall provide the Concessionaire and the Operator with no less than 30 Days' prior written notice of the time, date, place and subject matter of any meeting of the Senior Officials at which a resolution to remove the Operator will be considered, and both the Concessionaire and the Operator shall be afforded a reasonable opportunity to present testimony and evidence at such meeting and to present to the Senior Officials written objections to any proposed removal determination. Any written order of the Senior Officials removing the Operator shall contain written determinations as to the reasons for removal of the Operator. Within 45 Days following the effective date of such resolution, the Concessionaire shall remove the then current Operator and replace such Operator with either (A) a new Operator that is Approved by the University pursuant to Section 3.3(b) or (B) to the extent the Concessionaire was not the removed Operator, the Concessionaire.
- (iv) For the avoidance of doubt, if there is a dispute as to whether there has been a failure to meet the Performance Standards or the Target for any Key Performance Indicator, such dispute shall be subject to resolution in accordance with Article 18.
- (d) *Sole Remedy.* Other than the University's right to KPI Compensation pursuant to Article 15, notwithstanding anything to the contrary contained herein, the University's right to remove the Operator pursuant to Section 3.3(c) shall constitute the Concessionaire's sole and exclusive liability and the University's sole and exclusive remedy relating to a failure to meet a requirement of the Performances Standards or a KPI Event.

Section 3.4. Authorizations; Qualifications.

- (a) *Compliance.* The Concessionaire shall obtain, comply with, promptly renew and maintain in good standing all Authorizations, and the University shall use commercially reasonable efforts to assist the Concessionaire in obtaining, complying with, renewing and maintaining in good standing all such Authorizations, including those that the University was not required to obtain in connection with its operation of the Utility System prior to the Time of Closing. If the University reasonably expects to incur any out-of-pocket costs in connection with providing assistance to the Concessionaire as provided in the preceding sentence, it shall have no obligation to provide such assistance until the Concessionaire commits to the prompt reimbursement of such out-of-pocket costs in writing. Nothing in this Agreement, including Section 2.1, shall be deemed to waive or modify any Authorization required to be obtained by the Concessionaire or any other Person in connection with the Utility System, the Utility System Operations or any activities generating the Utility Fee.
- (b) *Qualifications.* The Concessionaire shall, at all times during the Term, maintain in full force and effect its existence and all qualifications necessary to carry on its business pertaining to the Utility System Operations, including all rights,

franchises, licenses, privileges and qualifications required in connection with the Utility System Operations.

Section 3.5. No Encumbrances.

- (a) *By the Concessionaire.* The Concessionaire shall not do any act or thing that will create any Encumbrance (other than a Permitted Concessionaire Encumbrance) against the Utility System and shall promptly remove any Encumbrance (other than a Permitted Concessionaire Encumbrance) against the Utility System, unless the Encumbrance came into existence as a result of an act of or omission by the University or a Person claiming through it which in turn was not caused by an act or omission of the Concessionaire. The Concessionaire shall not be deemed to be in default hereunder if the Concessionaire continuously, diligently and in good faith contests any such Encumbrance, or the validity thereof (or causes such contest), by appropriate legal proceedings that shall operate to prevent the foreclosure of any such Encumbrance; provided that the Concessionaire has (i) given advance notification to the University that it is the intent of the Concessionaire to contest the validity or collection thereof or cause such contest and (ii) unless a bond or other security is provided in connection with such proceedings, given a satisfactory indemnity to the University or deposited with the University a Letter of Credit, indemnity bond, surety bond, cash or Eligible Investment reasonably satisfactory to the University in an amount equal to the amount of the claim or Encumbrance, plus such interest and penalties, court costs, or other charges as the University may reasonably estimate to be payable by the Concessionaire at the conclusion of such contest or as is required to provide insurance over any potential Encumbrance; provided, however, that unless the Concessionaire is required by GAAP to maintain any security in favor of a purported beneficiary of such Encumbrance, in the event such Letter of Credit bond, cash or Eligible Investment shall be so deposited, the same shall be held by the University until such claim or other imposition shall have been released and discharged and shall thereupon be promptly returned to the Concessionaire, less any amounts reasonably expended by the University to procure such release or discharge or any loss, cost, damage, reasonable attorneys' fees or expense incurred by the University by virtue of the contest of such Encumbrance.
- (b) *By the University.* The University shall not do any act or thing that will create any Encumbrance (other than a Permitted University Encumbrance) against the Utility System and shall promptly remove any Encumbrance (other than a Permitted University Encumbrance) against the Utility System that came into existence as a result of an act of or omission by the University or a Person claiming through the University. The University shall not be deemed to be in default hereunder if the University continuously, diligently and in good faith contests any such Encumbrance, or the validity thereof (or causes such contest), by appropriate legal proceedings that shall operate to prevent the foreclosure of any such Encumbrance; provided that the University has given advance

notification to the Concessionaire that it is the intent of the University to contest the validity or collection thereof or cause such contest.

- (c) *Removal.* Each Party, if requested by the other Party and at such other Party's costs and expense, shall use its reasonable efforts to assist such other Party in attempting to remove any Encumbrance that has come into existence as a result of an act of or omission by such other Party (other than a Permitted University Encumbrance or a Permitted Concessionaire Encumbrance); provided that nothing herein shall obligate the University to waive, modify or otherwise limit or affect the enforcement by the University of any applicable rule, procedure or policy of the University whether or not with respect to the Utility System.

Section 3.6. Single Purpose Covenants; Credit Rating. Subject to Section 3.15(c), the Concessionaire shall, at all times during the Term, (i) be formed and organized solely for the purpose of (A) owning the Concessionaire Interest, (B) owning, operating, improving, using, possessing and otherwise dealing with the Utility System, (C) collecting from the University the Utility Fee in consideration of providing the services hereunder to the University and any fees from third parties to which it provides services to the extent permitted by Section 3.15(c), (D) financing its interest in the Utility System, and (E) carrying out the Utility Services and other activities permitted pursuant to this Agreement (and any activities reasonably incidental thereto), (ii) not engage in any business unrelated to clause (i) above, (iii) not have any assets other than those related to its activities in accordance with clauses (i) and (ii) above, (iv) except as appropriate for Tax reporting purposes, maintain its own separate books and records and its own accounts, (v) observe all corporate, limited partnership or limited liability company, as applicable, formalities and do all things necessary to preserve its existence, (vi) not guarantee or otherwise obligate itself with respect to the debts of any other Person, (vii) except as expressly permitted hereby or by any Leasehold Mortgage, or in connection in the ordinary course of business of the Utility System, not pledge its assets for the benefit of any other Person, and (viii) maintain adequate capital in light of its contemplated business operations. In addition, if the Concessionaire issues or refinances any Leasehold Mortgage Debt after the Closing Date, at the time of such issuance, refinancing or entry, such Leasehold Mortgage Debt shall have an investment grade credit rating, as determined by at least one of the Credit Rating Agencies, and shall provide written evidence of such rating to the University at the same time as such issuance, refinance or entry. The annual reasonable, actual-out-pocket cost of maintaining the credit rating of the Leasehold Mortgage Debt with a Credit Rating Agency shall, for the first three Fiscal Years after the Closing be added to the Capped O&M Index, and shall not be included in the calculation of the Capped O&M Index.

Section 3.7. Rights of the University to Access and Perform Work on the Utility System and Utilize Space for Energy Resources and Research Purposes.

- (a) *Reservation of Rights.* The University reserves (for itself and any of its Representatives, grantees, tenants, contractors, mortgagees, licensees, concessionaires and others claiming by, through or under the University) and shall, at all times during the Term, have the right to enter the Utility Facilities and have access to the Utility System in response to any of the following events or circumstances or for any of the following purposes, provided that (x) with

respect to Section 3.7(a)(i) and Section 3.7(a)(ii), such right is to be exercised at all reasonable times upon reasonable prior notice to the Concessionaire, (y) with respect to Section 3.7(a)(iii), such right is to be exercised at all reasonable times upon reasonable prior notice to the Concessionaire if practicable under the circumstances, and (z) with respect to Section 3.7(a)(iv), Section 3.7(a)(v) and Section 3.7(a)(vi), such right is to be exercised at all reasonable times with the University to request, with reasonable prior notice, the Concessionaire's consent to the exercise of such right, which consent shall not be unreasonably withheld, conditioned or delayed, provided that if the Concessionaire has not responded to such request within 5 Business Days, it shall be deemed to have consented to such exercise:

- (i) to inspect the Utility System, including performance of an assessment of the condition of the Utility System or any component thereof, or determine whether or not the Concessionaire is in compliance with its obligations under this Agreement or applicable Law pursuant to Section 8.3;
- (ii) if a Concessionaire Default then exists, subject to the cure rights of any Leasehold Mortgagee under Section 19.3, to make any necessary repairs to the Utility System and perform any work therein pursuant to Section 16.1(b)(iii) in accordance with Prudent Industry Practices;
- (iii) in the event of an Emergency or danger that threatens to cause injury to individuals (or damage to property) or to materially impair the continuous operation of the Utility System and if the Concessionaire is not then taking all necessary steps to rectify or deal with said Emergency or danger, to take actions as may be reasonably necessary to rectify such Emergency or danger in accordance with Prudent Industry Practices, in which event the University shall promptly give the Concessionaire written notice of such measures taken by the University;
- (iv) at its own cost and expense, to (A) install, design, manage, maintain, repair and rehabilitate any existing or future safety measures for the University Campus (whether provided by the University or third parties at the University's instruction) in, on, under, across, over or through the Utility System (including surveillance equipment and other safety equipment), (B) grant easements and rights on, over, under or within the Utility System for the benefit of suppliers or owners of any such measures and (C) use the Utility System in connection with any such installation, design, management, maintenance, repair or rehabilitation (provided that notwithstanding the foregoing clauses (A), (B) and (C), the Concessionaire shall have the right, at all times during the Term, to install, design, manage, maintain, repair and rehabilitate safety measures for its own account (and not for lease, resale or service to third parties) to the extent that the said safety measures are necessary for the Utility System Operations or as otherwise permitted under this Agreement);

- (v) at its own cost and expense, to (A) install, design, manage, maintain, repair and rehabilitate any existing or future utilities or similar services (whether provided by the University or third parties at the University's instruction) that are not part of the Utility System and do not provide Utilities in, on, under, across, over or through the Utility System (including water lines, sewer lines, fiber optic cable, other communications and other equipment), and (B) grant easements and rights on, over, under or within the Utility System for the benefit of suppliers or owners of any such utilities or services that are not part of the Utility System (provided that notwithstanding the foregoing clauses (A) and (B), the Concessionaire shall have the right, at all times during the Term, to install, design, manage, maintain, repair and rehabilitate utilities or other services for its own account (and not for lease, resale or service to third parties) to the extent that the said utilities or services are necessary for the Utility System Operations), provided that, notwithstanding Section 3.7(a)(z), no notice shall be required for the utility companies providing electricity to the Substations to access the property on which the Substations are located in order to operate, maintain, repair and replace their property and equipment thereon; and
- (vi) at its own cost and expense (except as otherwise expressly provided in this Agreement) and solely in accordance with the terms hereof, to do any other act or thing that the University may be obligated to do or have a right to do under this Agreement;

provided, however, that the University shall (A) not be obligated to make any payments to the Concessionaire for such access (other than Concession Compensation to the extent required hereunder) and the University shall use reasonable efforts to minimize interference with the Utility System Operations in connection with any entry on the Utility System pursuant to this Section 3.7(a), (B) not have access to any software or other intangibles of the Concessionaire and (C) comply with the Concessionaire's reasonable safety protocols and requirements to the extent provided in writing in advance to the University. Any entry to or action on the Utility System pursuant to clauses (iv), (v) and (vi) of this Section 3.7(a) shall be a Compensation Event.

- (b) *Access Rights.* The University and any of its Representatives, grantees, tenants, contractors, mortgagees, licensees, concessionaires and others claiming by, through or under the University, during the progress of any work referred to in this Section 3.7 shall have all necessary easement and access rights to the Utility System. To the extent that the University undertakes work or repairs in the Utility System under this Section 3.7 or any other provision of this Agreement, such work or repairs shall be commenced and diligently completed in a good and professional manner, in accordance with any applicable Performance Standards and in such a manner as not to unreasonably interfere with the Concessionaire's conduct of business in or use of such space.

- (c) *Renewable and Other Energy Resources.* The Concessionaire and the University recognize the value of exploring the use of renewable energy, energy storage and other energy resources, and, consistent therewith, the University reserves the right to use portions of the Utility System for the installation, operation, replacement and repair of energy apparatus, equipment, or improvements, including solar panels as well as collection and distribution facilities in accordance with Prudent Industry Practices and applicable Law. The University shall have the right to install or replace such energy apparatus, equipment, or improvement. Prior to any such installation, the University shall provide the Concessionaire written notice that includes the plans and schedule for completing such installation or replacement or, alternatively, the University may provide the Concessionaire a written notice requiring it to complete such installation or replacement as part of a University Directive, which notice shall include the plans, specifications, schedule (including the liquidated damages for failure to meet such schedule) and cost therefor. If the Concessionaire is directed to install or replace such energy apparatus, equipment, or improvement, (i) it shall do so in accordance with the terms and conditions of the University's notice and (ii) to the extent such energy apparatus, equipment, or improvement is a Capital Improvement, it shall, to the extent the costs therefor are incurred by the Concessionaire, be deemed to be a Capital Improvement Approved in accordance with Section 4.3(c)(i) (including the budgeted costs and liquidated damages set forth in such notice), and, once installed, shall be deemed part of the Utility System. Any such access contemplated by this Section 3.7(c) shall comply with the access right requirements set forth above in Section 3.7(b). In connection therewith, upon the request of the University, the Concessionaire agrees that it shall cause any such energy apparatus, equipment, or improvement to be connected to, or become part of, the Utility System in a manner that complies with the Concessionaire's reasonable interconnection and generation standards and is in accordance with Prudent Industry Practices and applicable Law, and that the Concessionaire will use any energy resources generated or stored by such apparatus, equipment, or improvement in the operation of the Utility System to the extent such energy is made available for use in the Utility System. To the extent the costs incurred for such interconnection (including any costs of installation, operation, replacement and repair) do not qualify as O&M Costs, such costs shall be reimbursed to the Concessionaire as Concession Compensation.
- (d) *Effect of Reservation.* Any reservation of a right by the University and any of its Representatives, grantees, tenants, contractors, mortgagees, licensees, concessionaires and others claiming by, through or under the University to enter the Utility System and to make or perform any repairs, alterations, Restoration or other work in, to, above, or about the Utility System which is the Concessionaire's obligation pursuant to this Agreement, shall not be deemed to (i) impose any obligation on the University to do so, (ii) render the University liable to the Concessionaire or any other Person for the failure to do so or (iii) relieve the Concessionaire from any obligation to indemnify the University as otherwise provided in this Agreement. Nothing in this Agreement shall impose

any duty upon the part of the University to do any work required to be performed by the Concessionaire hereunder and performance of any such work by the University and any of its Representatives, grantees, tenants, contractors, mortgagees, licensees, concessionaires and others claiming by, through or under the University shall not constitute a waiver of the Concessionaire's default in failing to perform the same. For the avoidance of doubt and notwithstanding any other provision of this Agreement, access to the Utility System by the University and its staff, students and Representatives shall be subject to and in accordance with the Concessionaire's reasonable access and safety protocols to the extent provided in writing in advance to the University and consistent with those protocols set forth in Schedule 28.

- (e) *Energy Research and Education.* The Concessionaire acknowledges that energy research and education is a significant focus of the University. The University and its energy industry research partners recognize the value of conducting applied energy research in real-world settings, and, consistent therewith, the University reserves the right to use portions of the Utility Facilities for the installation, evaluation, testing, operation, and replacement of energy apparatus, equipment, or improvements to serve research and academic purposes. Any such access contemplated by this Section 3.7(e) shall (i) comply with the access right requirements set forth above in Section 3.7(b), (ii) be in accordance with Prudent Industry Practices and applicable Law and (iii) comply with the Concessionaire's reasonable safety protocols and procedures to the extent provided in writing in advance to the University. In connection therewith, upon the request of the University, the Concessionaire agrees that it shall cooperate and take all reasonable actions to cause any such energy research apparatus, equipment, or improvement to be connected to the Utility Systems, including associated data collection apparatus, equipment, or improvement, in a manner that complies with the Concessionaire's reasonable interconnection standards, provided that, unless disclosure is required by applicable Law, the University shall maintain any information received by the University in connection therewith confidential in accordance with Section 8.2(b) if the Concessionaire has identified such information as a trade secret. The Concessionaire agrees that any intellectual property, including copyrights, patents, trade secrets and trademarks, created or generated by or related to any of the University's actions under this Section 3.7(e) shall not be considered owned or created by the Concessionaire, notwithstanding that the University or its energy industry research partners may access or use the Utility System with respect thereto, and the Concessionaire shall have no rights with respect thereto unless the University enters into a separate agreement with the Concessionaire granting such rights. To the extent the costs incurred for such connections do not qualify as O&M Costs, such costs shall be reimbursed to the Concessionaire as Concession Compensation. The Concessionaire also acknowledges that as part of the University's research, the University may request information regarding the Utility System, which information shall be provided pursuant to Section 3.12(a).

Section 3.8. Payment of Taxes. The Concessionaire shall pay when due all Taxes payable during the Term in respect of the use of, operations at, occupancy of or conduct of business in or from the Utility System, including any Property Taxes in respect of the Utility System, subject to this Section 3.8. The Parties acknowledge that, as of the Bid Date, the Utility System is exempt from Property Taxes. To the extent the Utility System or any portion thereof becomes not exempt from any Property Taxes due to any cause other than acts or omissions of the Concessionaire or its Representatives (other than those actions or inactions that the Concessionaire is directed or obligated to take pursuant to this Agreement, including in order to comply with the Performance Standards, and the execution of this Agreement), the actual costs of any resulting Property Taxes payable during the Term shall be included in Uncapped O&M Costs. The Concessionaire shall use commercially reasonable efforts to reduce the amount of Taxes required to be paid by it or the University. The University reserves the right, without being obligated to do so, to pay the amount of any such Taxes not timely paid by the Concessionaire and which are not being contested by the Concessionaire, and the amount so paid by the University shall be deemed additional consideration hereunder, due and payable by the Concessionaire within 20 Business Days after written demand by the University. The Concessionaire may contest any Taxes for which it is responsible pursuant to this Section 3.8 provided that (i) no such contest may involve a reasonable possibility of forfeiture or sale of the Utility System, and (ii) upon the final determination of any such contest, if the Concessionaire has not already done so, the Concessionaire shall pay any amount found to be due, together with any costs, penalties and interest. The University shall, at no out-of-pocket cost to the University, reasonably cooperate with the Concessionaire in any reasonable attempt by the Concessionaire to reduce or eliminate the Concessionaire's Tax liability.

Section 3.9. Utilities.

- (a) *Charges.* Unless otherwise directed by the University in writing, the Concessionaire shall ensure that contracts for utilities (other than those utilities subject to a Supply Contract and water, which is addressed in Section 7.3(d)) provide that invoices for all charges (including all applicable Taxes and fees) for such utilities and services used in the Utility System Operations during the Term are remitted to the Concessionaire, which the Concessionaire shall pay and shall be included as Capped O&M Costs. Upon request of the University, the Concessionaire shall forward to the University, within 15 Days following the respective due dates, official receipts, photocopies thereof or other evidence satisfactory to the University, of the payment required to be made by the Concessionaire in accordance with this Section 3.9. The University does not warrant that any utility services will be free from interruptions caused by war, insurrection, civil commotion, riots, acts of God, government action, terrorism, repairs, renewals, improvements, alterations, strikes, lockouts, picketing, whether legal or illegal, accidents, inability to obtain fuel or supplies or any other causes, and any such interruption of utility services in and of itself shall never be deemed an Adverse Action or an eviction or disturbance of the Concessionaire's use of the Utility System or any part thereof, or render the University liable to the Concessionaire for damages or, unless the same constitutes a Delay Event, relieve the Concessionaire from performance of the Concessionaire's obligations under this Agreement.

- (b) *Utility Coordination.* Subject to Section 7.3, the Concessionaire shall coordinate all Utility System Operations with utilities and Persons having service lines, pipelines, transmission lines and other equipment, cables, systems and other apparatus in, on, under, over, adjacent to or otherwise interconnecting with the Utility System. The Concessionaire shall notify the University in writing prior to communicating with any such utilities or Persons and shall take the University's direction in connection therewith, provided such direction is in accordance with Prudent Industry Practices and applicable Law. If the Concessionaire follows the direction of the University pursuant to the immediately preceding sentence, it shall be deemed to have satisfied its obligations with respect to this Section 3.9(b) solely with respect to the matter to which such direction by the University relates. In connection with its obligations under this Section 3.9(b), the Concessionaire shall cause provision to be made for the removal or temporary or permanent relocation and restoration of utilities and other services and any lines, equipment, cables, systems and other apparatus not used in connection with Utility System Operations that intersect, interfere with, interface with or otherwise affect the Utility System Operations and shall arrange for temporary rights of entry and access to utilities and other services to be made available that are necessary in connection with the Utility System Operations or as may exist under this Agreement or applicable Law; provided that the University shall cooperate with the Concessionaire with respect to the Concessionaire's obligations under this Section 3.9(b).
- (c) *No Interference.* The Parties understand and agree that nothing in Section 3.9(b) is in any way intended to interfere with the Utility System Operations by the Concessionaire, and the University shall cooperate with the Concessionaire in minimizing any effect that the obligations of the Concessionaire under Section 3.9(b) and this Section 3.9(c) may have on the Utility System Operations, including reasonable efforts to schedule any such works outside of the academic term or on weekends.
- (d) *Communications Systems.* To the extent that the Concessionaire utilizes or connects with the University's communications systems, the Concessionaire shall be responsible for the operation and maintenance of its telecommunications systems up until the point of connection with the University's system in accordance with the Performance Standards.

Section 3.10. Notices of Defaults and Claims.

- (a) *Notice by the Concessionaire.* The Concessionaire shall promptly give notice to the University (i) if the Concessionaire becomes aware that a Concessionaire Default has occurred under this Agreement (provided, however, that the failure to give such notice shall not constitute an independent Concessionaire Default) and (ii) of all material claims, proceedings, disputes (including labor disputes) or litigation in respect of the Concessionaire pertaining to the Utility System, the Utility System Operations or the University (whether or not such claim, proceeding or litigation is covered by insurance) of which the Concessionaire is

aware (other than as a result of a notice to the Concessionaire from the University). The Concessionaire shall provide the University with all reasonable information requested by it from time to time concerning the status of such claims, proceedings or litigation.

- (b) *Notice by the University.* The University shall promptly give notice to the Concessionaire (i) if the University becomes aware that a University Default has occurred under this Agreement (provided, however, that the failure to give such notice shall not constitute an independent University Default) and (ii) of all material claims, proceedings, disputes (including labor disputes) or litigation in respect of the University pertaining to the Utility System, the Utility System Operations or the Concessionaire (whether or not such claim, proceeding or litigation is covered by insurance) of which the University is aware (other than as a result of a notice to the University from the Concessionaire). The University shall provide the Concessionaire with all reasonable information requested by it from time to time concerning the status of such claims, proceedings or litigation.

Section 3.11. Assignment of Operating Agreements and Plans; Project Intellectual Property.

- (a) *Operating Agreements and Plans.* At the request of the University, the Concessionaire shall collaterally assign, to the extent reasonably practicable and subject to the terms and conditions herein, to the University, in form and substance satisfactory to the University, all of the right, title and interest of the Concessionaire in, to and under all or any of the Operating Agreements and all present and future specifications, plans, drawings, information and any other documentation (except Project Intellectual Property) in relation to the Utility System Operations regardless as to whether any of the foregoing involve proprietary information (collectively, the “Operating Agreements and Plans”) as collateral security to the University for the observance and performance by the Concessionaire of its covenants and obligations under this Agreement. The Concessionaire covenants that it shall cause all of the right, title and interest of the Concessionaire in, to and under all Operating Agreements and Plans entered into or created after the Time of Closing to be collaterally assignable and transferable to the University as provided in this Section 3.11(a). The University acknowledges and agrees that the Operating Agreements and Plans may also be assigned as security to a Leasehold Mortgagee and that each of the University and such Leasehold Mortgagee shall be entitled to use the Operating Agreements and Plans in enforcing their respective security interests as hereinafter provided. Without limiting the generality of the foregoing, the University shall be entitled to use the Operating Agreements and Plans in the event of, and as necessary to, remedy a Concessionaire Default under this Agreement for so long as such Concessionaire Default is continuing and has not been cured. Notwithstanding the foregoing, in the event that any such Leasehold Mortgagee has entered into possession or is diligently enforcing and continues to diligently enforce its security, whether by way of appointment of a receiver or manager, foreclosure or power of sale in accordance with Article 19 or otherwise, or has entered (or is in

process to enter) into a New Agreement under Section 19.5 and is using the Operating Agreements and Plans in respect of the Utility System Operations, the University shall not be entitled to use the Operating Agreements and Plans in enforcing its security, it being acknowledged that any assignment of the Operating Agreements and Plans to a Leasehold Mortgagee shall have priority at all times (other than if the University is enforcing its rights to cure under Section 3.3(c)(i)(B) or, if the Leasehold Mortgagee's extended cure period under Section 19.3, if any, has expired and the Leasehold Mortgagee has not commenced any action to effect a cure in accordance therewith, Section 16.1(b)(iii)) over any assignment of the Operating Agreements and Plans to the University. The Concessionaire shall promptly deliver to the University, at the sole cost and expense of the Concessionaire, forthwith after completion or execution and delivery, a copy of each item of the Operating Agreements and Plans. The University agrees that (i) it shall bear all risks associated with the use of the Operating Agreements and Plans, (ii) it may not rely on the Operating Agreements and Plans, and (iii) under no circumstances will the Concessionaire be liable in any way with respect to the University's use of, or for any loss or damage of any kind incurred as a result of the use of, the Operating Agreements and Plans.

- (b) *Project Intellectual Property.* The University shall have and is hereby granted a nonexclusive, transferable, irrevocable, perpetual, fully paid up right and license to use, exploit, reproduce, modify, adapt, and disclose, and sublicense others to use, reproduce, modify, adapt, and disclose, the intellectual property (including business systems and patents) of the Concessionaire or the Operator solely used in connection with the Utility System (the "Project Intellectual Property"), subject to the following:
- (i) the University shall have the right to exercise such license only in connection with the Utility System and Utility System Operations;
 - (ii) the University shall have the right to exercise such license only at the following times: (A) from and after the expiration or earlier termination of the Term for any reason whatsoever; (B) during any time that the University is exercising its rights pursuant to Section 3.7(a)(ii) or Section 3.7(a)(iii); and (C) during any time that a receiver is appointed for the Concessionaire, or during any time that there is pending a voluntary or involuntary proceeding in bankruptcy in which the Concessionaire is the debtor;
 - (i) the University shall not at any time use, reproduce, modify, adapt and disclose, or allow any party to use, reproduce, modify, adapt and disclose, any such Project Intellectual Property for any other purpose;
 - (ii) the right to transfer the license is limited to any Person that succeeds to the power and authority of the University generally or with respect to the

Utility System, and all such transfers shall be subject to Section 3.11(b)(v);

- (iii) the right to sublicense is limited to concessionaires, contractors, subcontractors, employees, attorneys, consultants, and agents that are retained by or on behalf of the University in connection with the Utility System, and all such sublicenses shall be subject to Section 3.11(b)(v); and
- (iv) except to the extent required by Law, the University (A) shall not disclose any Project Intellectual Property to any Person other than authorized transferees and sublicensees who agree to be bound by any confidentiality obligations of the University relating thereto; (B) shall enter into a commercially reasonable confidentiality agreement if requested by the Concessionaire with respect to the licensed Project Intellectual Property; and (C) include, or where applicable require the contract with the transferee or sublicensee to include, a covenant to employ sound business practices no less diligent than those used for its own confidential information, and no less diligent than required by commercially reasonable standards of confidentiality, to protect all Project Intellectual Property of the Concessionaire and other materials provided under the license or sublicense, as the case may be, against disclosure to third parties not in receipt of a license or sublicense, as applicable, and to use the license or sublicense only for the permitted purposes.

provided that: (A) for the avoidance of doubt, the Concessionaire shall continue to have a full and complete right to use any and all duplicates or other originals of its Project Intellectual Property in any manner it chooses, and (B) the University agrees that if it uses any Project Intellectual Property: (x) it shall bear all risks associated with the use of the Project Intellectual Property, (y) it may not rely on the Project Intellectual Property, and (z) under no circumstances will the Concessionaire be liable in any way with respect to the University's use of, or for any loss or damage of any kind incurred as a result of the use of, the Project Intellectual Property.

Section 3.12. Use of Information and Records.

- (a) Unless prohibited by applicable Law and to the extent reasonably necessary, the University shall be entitled to access all reasonable records, electronic data and other information collected and retained by the Concessionaire with respect to the Utility System and the Utility System Operations, including utility usage data, consumption pattern information and other utility data, and the Concessionaire shall maintain such records, data and other information in a format that is readily accessible to the University in order to facilitate the University's efforts with respect to energy efficiency, sustainability, environmental impact and research. The University shall use commercially reasonable efforts to provide at least 2 Business Days' written notice prior to

accessing such records. At least 30 Days prior to the Closing Date, the Concessionaire shall deliver to the University for its Approval a proposed policy for the maintenance and retention of all records related to the operation and maintenance of the Utility System (once Approved, the “Record Retention Policy”). If the University does not Approve the Record Retention Policy, it shall provide the Concessionaire a reasonably detailed explanation for its disapproval, and the Concessionaire shall, promptly thereafter, submit a revised Record Retention Policy intended to address the University’s comments, and this process shall continue until the University Approves a Record Retention Policy. Following the Approval of the Record Retention Policy, the Concessionaire shall maintain all records related to the operation and maintenance of the Utility System in accordance with such Record Retention Policy. The University covenants and agrees that it will implement safeguards to protect against the disclosure or misuse of any such Concessionaire information that is in its care or custody and will promptly inform the Concessionaire if there is any breach or suspected breach of security related to such information, subject to Section 8.2(b).

- (b) Unless prohibited by applicable Law, the Concessionaire shall be entitled to access all reasonable records, electronic data and other information collected and retained by the University to the extent reasonably required for, and only for the purpose of, the Concessionaire’s performance of its obligations under this Agreement and the Performance Standards, including the maintenance of any Authorization. The University shall promptly make such records, data and information available to the Concessionaire as reasonably requested by the Concessionaire. Unless disclosure is required by applicable Law, the Concessionaire shall keep confidential any information obtained from the University or its Representatives, including any information obtained through its performance of the Utility System Operations. The Concessionaire covenants and agrees that it will implement safeguards to protect against the disclosure or misuse of any such University information that is in its care or custody and will promptly inform the University if there is any breach or suspected breach of security related to such information. If any information obtained from the University or its Representatives is provided by the Concessionaire, or the University on behalf of the Concessionaire, to any third party, including any equity member of the Concessionaire, the Operator or any Contractor, then (i) the Concessionaire shall cause such third party to comply with the provisions of this Section 3.12(b) and (ii) the Concessionaire shall be liable for the disclosure or use of such information by such third party as if the Concessionaire had disclosed or used it.

Section 3.13. Standard of Operation and Maintenance of the Utility System. At all times during the Term, the Concessionaire shall be required to maintain and operate the Utility System in accordance with the Performance Standards and Prudent Industry Practices.

Section 3.14. Payments by the University. The Concessionaire acknowledges and agrees that if the University is required under applicable Law of general application to withhold

a portion of any payment that the University is obligated to make to the Concessionaire under this Agreement and to pay such amount to a Governmental Authority, the University will be deemed to have satisfied such payment obligation to the Concessionaire to the extent of such withholding by the University and payment to the appropriate Governmental Authority. If any such withheld amounts are permitted to be paid to the Concessionaire, the University shall pay such amounts to the Concessionaire whenever permitted by Law. Any items and payment amounts that, to the Actual Knowledge of the University 10 Business Days prior to the Closing Date, it is legally required to withhold from the Concessionaire as of the Closing Date will be listed in Schedule 14 and agreed to by the Concessionaire, acting reasonably, prior to Closing as a condition of Closing, provided that regardless of whether any payment is listed on Schedule 14, the University shall always have the right to withhold payments pursuant to this Section 3.14 if required by Law and shall not be in breach of this Agreement. Prior to withholding any portion of any payment hereunder, the University shall give reasonable prior notice to the Concessionaire of the proposed withholding, and the Concessionaire shall promptly notify the University of any challenge by the Concessionaire to such proposed withholding. For the avoidance of doubt, any payment obligation of a University's department, office or center required by this Agreement is a payment obligation of the University for purposes of this Agreement, and the University shall either cause such department, officer or center to pay the payment obligation or shall satisfy the payment obligation itself.

Section 3.15. Naming and Signage Rights, Other Revenue Activities and Commercial Advertisements and Activities.

- (a) Due to the importance of having uniform signage on the University Campus for safety and aesthetic purposes, the Concessionaire shall have no right to name or modify the name of the Utility System or any portion thereof or, unless required to do so by applicable Law, to install signage of any kind thereon, without the University's Approval, which may be withheld in its discretion.
- (b) The University shall have the right, in its discretion, to install, replace, display and maintain signage (i) that relates to identification or naming of the Utility System, the Utility Facilities, portions thereof, or surrounding areas or (ii) for informational or educational purposes; provided that (A) the Concessionaire shall have no obligation under the Performance Standards to replace or maintain any signage installed by the University for advertising purposes, and (B) the University shall not install any signage that relates to naming of the Utility System, the Utility Facilities, portions thereof, or surrounding areas for a Person that competes directly with the Concessionaire or the Operator.
- (c) The Concessionaire shall be entitled to investigate opportunities and develop additional sources of revenue in connection with the Utility System, including providing utility services to customers other than the University and making market-based sales of electricity, provided that the Concessionaire shall not perform any such revenue producing activities unless and until (i) the Concessionaire provides reasonable proof to the University for the University's Approval that such activities will not adversely affect (A) the University or its students, employees or Representatives, including causing any increase in costs

to the University pursuant to Article 7, or (B) the ability of the Concessionaire and its Affiliates to comply with the terms and conditions of the Agreement; (ii) the University is granted the right to receive a mutually agreed portion of the gross revenue from such additional sources of revenue; (iii) the Concessionaire has received all relevant Authorizations from Governmental Authorities; and (iv) the Concessionaire provides reasonable proof to the University for the University's Approval that such activities will comply with Prudent Industry Practices and applicable Laws. For the avoidance of doubt, notwithstanding the foregoing, the University shall not incur any costs in connection with such additional sources of revenues unless such costs are fully reimbursed by the Concessionaire.

- (d) Notwithstanding anything to the contrary contained herein, due to the importance to the University of having uniform nutritional choices on the University Campus, the University hereby reserves the right to install and operate vending machines in any portion of the Utility System and to access the Utility System for the purposes thereof, and the University shall be entitled to the revenue generated by such vending machines.
- (e) The University and the Concessionaire agree that they shall execute on Closing a trademark license agreement in the form attached hereto as Schedule 21.

Section 3.16. Reversion of Utility System. On the Reversion Date, the Concessionaire shall surrender and deliver to the University all of its rights, title and interest in the Utility System (including all improvements to the Utility System, the Utility System Assets and all tangible and intangible personal property of the Concessionaire (including inventories) that is included in the Utility System and used in connection with the Utility System Operations) subject, however, as to any intellectual property included in the Utility System, to any restrictions or prohibitions to disclosure, transfer or sharing thereof and any other rights of third parties with respect thereto, all in accordance with the provisions of Section 16.3. With respect to any third party or proprietary software utilized by the Concessionaire in the operation of the metered Utility System at the time of the Reversion Date, the Concessionaire and the University will negotiate in good faith appropriate license rights and terms for the University's continued use of the software following reversion.

Section 3.17. Police, Fire, Emergency and Public Safety Access Rights. Notwithstanding any other provision of this Agreement, at all times during the Term and without notice or compensation to the Concessionaire (i) any police, fire and emergency services and any other security or emergency personnel retained by or on behalf of the University shall have access, as required by such services or personnel, to the Utility System; (ii) the University shall have access to the Utility System as necessary for the protection of public safety; and (iii) any Governmental Authority with jurisdiction over the Utility System shall have access to the Utility System as necessary for inspection, emergency management and homeland security purposes, including the prevention of or response to a public safety emergency (so long as any exercise of such jurisdiction, to the extent effected by the University, shall be strictly in accordance with the terms hereof).

Section 3.18. Negotiations with Third Parties. Prior to entering into any agreement with any third party, including any Governmental Authority, in connection with the Utility System Operations (a “Third Party Agreement”) that extends or could extend beyond the Term or pursuant to which the University may incur any liability whatsoever thereunder, the Concessionaire shall submit such Third Party Agreement for Approval by the University (which Approval may be withheld, conditioned, or delayed in the discretion of the University) prior to the execution and delivery thereof (except with respect to Third Party Agreements the absence of which may cause the Concessionaire or Utility System Operations to fail to be in compliance with applicable Law or this Agreement, in which case the Concessionaire may enter into such Third Party Agreement upon notice to the University provided that the Concessionaire indemnifies the University for any Losses relating thereto).

Section 3.19. Administration of the Public Way. The Concessionaire acknowledges and accepts that the University holds and administers the Public Way for the non-discriminatory benefit of all Persons and interests, including the Concessionaire and the Concessionaire Interest. The rights granted to the Concessionaire under this Agreement do not create a priority in favor of the Concessionaire over any other user of the Public Way, and such rights are subject to the Performance Standards and all provisions of Law.

Section 3.20. Rights to Adjacent Space. The University hereby reserves, and is not demising or leasing to the Concessionaire, the right or easement to construct and reconstruct and forever maintain the air rights with respect to the Utility Facilities and other property within the Utility System and the right to construct, use or occupy any of the space not directly occupied by the Utility System, including (i) any and all space located above, below or adjacent to any such property, and (ii) any and all space located above, below or adjacent to any improvements within the Utility System as of the date hereof, provided that such construction, use or occupancy does not materially impair the Utility System Operations. For the avoidance of doubt, to the extent that any Utility Facility is buried below the surface of any part of the University Campus, the University shall have the right to construct any building, structure or other improvement on that part of the University Campus, provided such construction does not damage or alter such buried Utility Facilities. The University’s exercise of its rights hereunder shall not be subject to any of the terms and conditions of Section 3.7(a).

Section 3.21. Sole Utility Provider. The University covenants that, during the Term, it will not, and it will not contract or agree with any third party to, provide any Utility or Utility Services on the University Campus, except in the following circumstances: (i) as of the Bid Date, a third party is providing the relevant Utility or Utility Services to a portion of the University Campus, in which case the University may continue to have that third party or a successor thereto or a replacement thereof provide such Utility or Utility Services during the Term on only that portion of the University Campus or (ii) as of the Bid Date, (1) any district utility systems within the University Campus which are generating or distributing Utilities beyond the lines of demarcation identified in the Performance Standards or (2) with respect to chilled water only, are not served by the Utility System for chilled water, which list is set forth in Schedule 27 or (iii) the University installs systems, equipment or materials for the distribution of Utilities beyond the lines of demarcation identified in the Performance Standards, which shall be performed by or on behalf of the University. For the avoidance of doubt, if the University does not own or lease a building, facility, other improvement or land within the University Campus,

the University shall have no obligation with respect to causing the Concessionaire to be the sole provider of Utilities or Utility Services with respect to such building, facility, other improvement or land, and there shall be no Concession Compensation payable in connection therewith, except as expressly set forth in Section 5.3.

Section 3.22. Repair and Maintenance of the Tunnels. The Concessionaire covenants that, during the Term, it shall be responsible for maintaining, repairing and replacing the Tunnels, which, for the avoidance of doubt, are part of the Utility System, including the right to include New Approved Capital Improvement Costs for Capital Improvements with respect to the Tunnels (if Approved in accordance with Article 4) in the calculation of the Variable Fee Component and the Capital Recovery Amount. The Concessionaire or the Operator shall contract with a Contractor to perform such restoration, repair or maintenance, which Contractor must either be on a list of pre-approved contractors provided by the University or otherwise Approved by the University in its discretion. If the Concessionaire fails to repair and maintain the Tunnels in accordance with Prudent Industry Practices and such failure creates an Emergency, the University shall have the right to take such action as is necessary to remedy such Emergency, and the Concessionaire shall, within 30 Days after receipt of an invoice therefor, reimburse the University for the out-of-pocket cost thereof, provided that the University shall, where practical, provide the Concessionaire advance written notice of such action. Notwithstanding the foregoing, the Concessionaire shall not interfere with, modify or alter any of the personal property, fixtures or improvements within the Tunnels that are not used in Utility System Operations, and the University shall have the right to access the Tunnels, not subject to Section 3.7, to maintain, alter, improve, repair or remove any such personal property, fixtures or improvements, provided, the University shall use commercially reasonable efforts to minimize interference with Utility System Operations.

Section 3.23. Adjustments to the Location or Configuration of the Utility System. The University shall have the right, upon notice to the Concessionaire, to cause the Concessionaire to alter the location or configuration of the Utility System or to designate alternative real property for the Utility System Land to the extent the University deems it necessary or useful in the operation and use of the University Campus, including in connection with the reconstruction of a Utility Facility following a fire or other casualty. Except as provided in Section 13.4 with respect to any modifications in connection with a casualty, to the extent such alteration or designation of alternative real property is a Capital Improvement, it shall be considered a New Approved Capital Improvement for a budgeted cost and an increase in the Capped O&M Index reasonably approved by the Concessionaire and the University, but, to the extent such alteration or designation of alternative real property is not a Capital Improvement, the costs incurred by the Concessionaire or the Operator as a result of the University's exercise of its right under this Section 3.23 shall be considered an Uncapped O&M Cost in accordance with the definition thereof. If the University directs the Concessionaire to relocate the Utility System to a location to which it does not have a right to access pursuant to this Agreement, the University shall grant occupancy rights to the Concessionaire sufficient for the Concessionaire to meet its obligations hereunder. If the University designates alternative real property for the Utility System Land, then, upon such designation, (i) such alternative real property shall be deemed Utility System Land for purposes of this Agreement, (ii) the Concessionaire shall return the prior Utility System Land and all improvements and Utility Facilities thereon to the University in the condition required under Section 16.3, at no additional cost to the University,

other than out-of-pocket costs incurred by the Concessionaire in connection with such transfer (including the cost of recording the conveyance documentation and the cost of a title policy for the alternative real property for the Utility System Land in the event that the Concessionaire received a title policy with respect to the original Utility System Land), and (iii) in accordance with the University's designation of alternative real property, the Concessionaire shall relocate the Utility Facilities then existing on the prior Utility System Land to the alternative real property. The Concessionaire shall have the right to amend the Memorandum of Lease to reflect any changes resulting from the University's exercise of its right under this Section 3.23, and the University shall reasonably cooperate in such amendment and shall pay the out-of-pocket costs incurred by the Concessionaire in connection therewith.

Section 3.24. Sales to Individual Customers on the University Campus. The Concessionaire shall not be permitted to sell any fuels or Supplies to individual customers on the University Campus. To the extent that the Concessionaire supplies fuels or Supplies to the University for distribution to individual customers, the University shall control the distribution of such fuels or Supplies. The Concessionaire shall have no interests or rights to charge or collect any payments from the University or such individual customers for the provision of such fuels or Supplies.

Section 3.25. University Business Continuity Plan. The Concessionaire shall reasonably cooperate with the University in connection with the University's business continuity plan and shall attend any University meetings regarding such plan if requested by the University.

Section 3.26. Utility System Tours. The Concessionaire shall provide tours of the Utility System or any portion thereof to the University and its Representatives upon reasonable request by the University, provided that (i) the Concessionaire shall have the right to refuse to give any tour if such tour would unreasonably interfere with the operation of the Utility System or any of the Concessionaire's other obligations hereunder and (ii) all tour participants shall be required to comply with the Concessionaire's reasonable safety protocols and requirements to the extent provided in writing to the University.

Section 3.27. Uniforms. To aid the University's provision of security and safety measures to the University Campus, Concessionaire and Operator personnel working on the University Campus shall wear a uniform that is standard across the Utility System and clearly identifies such personnel as Concessionaire and Operator personnel.

Section 3.28. EAC. The Parties acknowledge the importance of documenting and discussing best practices and Prudent Industry Practices for Comparable Utility Systems to determine whether the Parties should consider modifying the Performance Standards, Key Performance Indicators or the components of the Utility Fee or should consider providing incentives to the Concessionaire to meet certain operational targets. In connection therewith, the University shall form an EAC to liaise with the Concessionaire so that the University and the Concessionaire have an open dialogue with respect to such matters. The EAC shall meet, which meetings may be held telephonically, as reasonably necessary to address issues that arise during the Term, as determined by the University.

Section 3.29. Sustainability. The Concessionaire acknowledges that the University has a long-term commitment to operating the University Campus in a sustainable manner and that the Utility System Operations are an integral part of that commitment. As such, in addition to the Concessionaire's covenants with respect to the coal-free operation of the Utility System under Section 7.3(e), the Concessionaire covenants that it will use commercially reasonable efforts to perform the Utility System Operations in a manner that is intended to make the Utility System Operations as sustainable as reasonably possible under the circumstances (to the extent consistent with Prudent Industry Practices and subject to obtaining any required University Approvals for Capital Improvements and Material Changes), and it will use commercially reasonable efforts to implement any changes to the Utility System Operations requested by the University in the form of a University Directive to increase the sustainability of the Utility System Operations that do not materially and adversely affect the Concessionaire's ability to meet its obligations hereunder, including the obligation to meet the Performance Standards. In addition, the Concessionaire will use commercially reasonable efforts throughout the Term to propose Capital Improvements and Material Changes pursuant to Article 4 that are reasonably intended to increase the sustainability of the Utility System Operations and the University Campus, including reduction of emissions, Utility use and other impacts on the environment. Further, the Concessionaire shall attend any University meetings regarding sustainability planning on the University Campus if requested by the University. The Parties acknowledge that what constitutes "sustainability" may evolve over the Term and that the Parties intend that, for purposes of this Section 3.29, "sustainable" and "sustainability" shall have the then-current generally accepted utility industry meaning of the term, which, as of the Effective Date, includes undertaking measures to (i) reduce energy and water consumption, (ii) become a net-negative energy use, (iii) reduce the impact of operations on the environment, (iv) recycle and reuse resources, (v) purchase goods and services from sources that provide such goods and services in a sustainable manner and (vi) reduce the use of goods and services that damage the environment. For the avoidance of doubt, the Concessionaire shall not be required to incur costs that would otherwise be Capped O&M Costs or Uncapped O&M Costs to comply with this Section 3.29 unless such costs are included in an Approved Five-Year Plan.

Section 3.30. Shared Space and Temporary Space.

- (a) *Control Room and USB Space.* The University shall grant the Concessionaire and the Operator access to the Control Room upon at least 24 hours' advance written notice for purposes of carrying out the obligations set forth in this Agreement; provided, the Concessionaire shall not be obligated to provide advance notice in the event of an Emergency but shall provide notice promptly after access in such event. The University shall be entitled to have a Representative present at all times while the Concessionaire has access to the Control Room, and the Concessionaire shall be obligated to observe all reasonable University safety and security protocols in effect with respect to the Control Room and provided to the Concessionaire in advance. In addition, if requested by the Concessionaire, the University shall use reasonable efforts, at no out-of-pocket cost to the University, to provide a temporary license to the Concessionaire and its Representatives to use space within the University Services Building, or any replacement building where the University's Facilities Management group is located, which is expected to be no more than 5 offices

and/or cubicles, to facilitate cooperation in the Utility System Operations and the larger operation of the University Campus. The University shall not be required to provide such space if it determines, in its sole discretion, that it does not wish to provide such space based on its current use, and it may terminate such license at any time upon Notice to the Concessionaire and may require the Concessionaire to abide by reasonable rules and regulations, including limiting the hours of access thereto.

- (b) *Oakdale Power Plant Gasifier.* The Concessionaire shall grant the University access to that certain gasifier equipment in the Oakdale Power Plant upon at least 24 hours' advance written notice for purposes of carrying out research, operations, maintenance and other ancillary tasks; provided, the University shall not be obligated to provide advance notice in the event of an Emergency but shall provide notice promptly after access in such event. The Concessionaire shall be entitled to have a Representative present at all times while the University has access to the Oakdale Power Plant, and the University shall be obligated to observe all reasonable safety and security protocols promulgated by the Concessionaire with respect to the Oakdale Power Plant and provided to the University in advance.
- (c) *Utility System Space in Larger Buildings.* The Concessionaire acknowledges that each of the Oakdale Hygienic Lab Chiller Space, Madison Street Space, the Sand Road Space, the Hospital Plant and the Independence Road Annex Space are not separate buildings but are spaces within larger buildings that the University or the BOR (for the benefit of the University) owns or leases, as applicable. As such, the University shall retain the responsibility, either by University employees or Contractors, or at the University's direction, to maintain, repair, replace and keep in good order and condition the structural and building-system components of the Madison Street Space, the Sand Road Space, the Hospital Plant and the Independence Road Annex Space, including the roof, load-bearing walls and foundation of each of the foregoing, except to the extent any maintenance, repair or replacement is caused by the negligence or willful misconduct of the Concessionaire or its Representatives, in which case the Concessionaire shall be responsible therefor and shall perform such maintenance, repair or replacement as promptly as reasonably practicable. The Concessionaire shall abide by any reasonable rules and regulations promulgated by the University and provided to the Concessionaire in writing, and the Concessionaire shall have non-exclusive access to any common areas of the larger buildings (as identified by the University) in which those spaces are a part, provided that, in no event, shall the Concessionaire and its Representatives be entitled to use more than 16 parking spaces serving the Madison Street Space. The Concessionaire shall, in addition, have non-exclusive access to the loading dock serving the Independence Road Annex Space, provided that such access shall be subject to the University's right to schedule use and access thereof. The Concessionaire shall not be obligated to pay any rental with respect to such shared spaces, except that the Concessionaire shall pay to the University its pro rata share (based on square footage) of the rental charges, including additional rental charges for

common area maintenance expenses, real estate taxes and other items, incurred by the University with respect to the building in which the Independence Road Annex Space is located within 30 Days after receipt of notice of such rental amounts, the cost of which shall be considered a Capped O&M Cost.

- (d) *Madison Street Replacement Building.* The Parties acknowledge and agree that it is the intent of the University, at the University's sole cost and expense, to construct a building located within the area identified on Schedule 25 that will contain at least 30,000 gross square feet and that will be constructed to serve as office and storage space for the Utility System and replace the Madison Street Space (the "Madison Street Replacement Building"). The Concessionaire shall reasonably cooperate with the University, at no out-of-pocket cost to the Concessionaire, in the design and construction of the Madison Street Replacement Building, and the University shall provide design and working drawings to the Concessionaire for the Concessionaire's comment. Upon completion of the Madison Street Replacement Building and Notice from the University to the Concessionaire of such completion (the "Madison Street Replacement Notice"), at no additional cost to the Concessionaire, the Madison Street Replacement Building shall automatically become a Utility Facility (and thus part of the Utility System) and the land underneath it shall become Utility System Land. The University shall include in the Madison Street Replacement Notice a depiction of the Madison Street Replacement Building and the Utility System Land on which it is located, which shall be deemed appended to this Agreement as an additional part of Schedule 3; provided, the Parties acknowledge that the University may adjust the site for the construction of the Madison Street Replacement Building in its discretion and as necessary in accordance with its plans for the ongoing development and improvement of the University Campus and, in the event of any such relocation, shall include an updated depiction of the Madison Street Replacement Building in the Madison Street Replacement Notice. Within 60 Days after the Madison Street Replacement Notice, the Concessionaire shall surrender the Madison Street Space to the University in the condition in which it is required to surrender the Utility System in accordance with Section 16.3, and it shall automatically, without any further action, be removed as a Utility Facility and shall no longer be leased by the Concessionaire or be part of the Utility System. The cost of operation and maintenance of the Madison Street Replacement Building, to the extent materially higher than the cost to operate and maintain the Madison Street Space, shall be included in the Capped O&M Index for the Fiscal Year in which the Madison Street Replacement Notice is delivered to the Concessionaire. If the Concessionaire fails to surrender the Madison Street Space in the condition in which it is required to surrender it hereunder, the University shall have the right to restore the Madison Street Space to such condition, and the Concessionaire shall pay the University's cost with respect thereto promptly upon receipt of written Notice.
- (e) *Surrender of Sand Road Space.* On the second-year anniversary of the Closing Date, the Concessionaire shall surrender the Sand Road Space to the University

in the condition in which it is required to surrender the Utility System in accordance with Section 16.3, and it shall automatically, without any further action, be removed as a Utility Facility and shall no longer be leased by the Concessionaire or be part of the Utility System. If the Concessionaire fails to surrender the Sand Road Space in the condition in which it is required to surrender it hereunder, the University shall have the right to restore the Sand Road Space to such condition, and the Concessionaire shall pay the University's cost with respect thereto promptly upon receipt of written Notice. The Parties intend that the Concessionaire shall use the Independence Road Annex Space for the purposes currently served by the Sand Road Space, but the failure of the Concessionaire to do so shall not modify or alter its obligation to surrender the Sand Road Space in accordance herewith.

- (f) *Independence Road Annex Space Lease.* The Concessionaire agrees that its use and occupancy of the Independence Road Annex Space is subject and subordinate to the terms and conditions of the Independence Road Annex Lease and that it shall not cause the University or the BOR to be in default thereof. The Concessionaire shall have no right to deal directly with the landlord under the Independence Road Annex Space Lease and does, to the extent permitted by Law, and except for the breach of the University's or the BOR's obligations hereunder, hereby waive any cause of action and any right to bring an action against the University or the BOR by reason of any act or omission of the landlord under the Independence Road Annex Lease. Notwithstanding anything contained in this Agreement to the contrary, the Concessionaire acknowledges and agrees that: (x) neither the University nor the BOR shall be responsible for or deemed a guarantor with respect to any representations, warranties, covenants or other obligations or liabilities of the landlord under the Independence Road Annex Lease, and the Concessionaire agrees to look solely to the landlord under the Independence Road Annex Lease for performance of its obligations, (y) the University's and the BOR's sole obligation to the Concessionaire under the Independence Road Annex Lease shall be, at the Concessionaire's request and on the Concessionaire's behalf, to use commercially reasonable efforts to require the landlord under the Independence Road Annex Lease to perform its specific obligations under the Independence Road Annex Lease if necessary, and (z) neither the University nor the BOR shall have liability to the Concessionaire for any misrepresentation, warranty, default or other act or omission of the landlord under the Independence Road Annex Lease and neither the University nor the BOR shall be obligated to provide any services to the Concessionaire or otherwise to perform any obligations that the landlord under the Independence Road Annex Lease is required to perform. Whenever the approval or consent of the landlord is required under the Independence Road Annex Lease for any action that the Concessionaire proposes to undertake, the Concessionaire shall not undertake such action unless and until the landlord has approved such action, in addition to any University Approval required hereunder. The University shall use commercially reasonable efforts to request and shall diligently pursue the Independence Road Annex Lease landlord's approval if the University has Approved such action. The Concessionaire shall not be entitled to exercise any

of the University's or the BOR's rights or remedies under the Independence Road Annex Lease. If the Independence Road Annex Lease terminates or expires, the sublease of the Independence Road Annex Space shall terminate at that time and the Parties hereto shall be relieved of any further liability or obligation under this Agreement with respect to the Independence Road Annex Space only and the Independence Road Annex Space shall no longer be a Utility Facility or otherwise subject to this Agreement, except that, unless the termination of the Independence Road Annex was caused by a Concessionaire Default, the University shall reasonably cooperate, at no out-of-pocket cost to the University, to assist the Concessionaire in locating replacement space, which space shall be rented by the Concessionaire at its cost, which may be a Capped O&M Cost.

- (g) *North Campus Chilled Water Plant Walls and Roof.* The Parties acknowledge and agree that the North Campus Chilled Water Plant shares certain structural, load-bearing walls with a parking facility owned and operated by the University. In recognition of such shared walls, the Parties agree that the University shall be responsible for all structural repairs and replacements of such walls and any other capital repairs associated therewith. In exchange therefor, the Concessionaire shall pay, within 30 Days after demand, 50% of such costs, which shall be considered Capped O&M Costs except for those repairs or replacements that would be considered a capital improvement under GAAP, in which case they shall be considered Uncapped O&M Costs. In addition, the Concessionaire hereby grants the University an exclusive license to use the entirety of the roof of the North Campus Chilled Water Plant for basketball courts and other athletic uses, and the University and its students, faculty and staff shall have the right to use such basketball courts at all times during the Term, except for such times as the Concessionaire limits access thereto in order to perform Utility System Operations, including repairs and replacements of the roof, which the Concessionaire shall use reasonable efforts to minimize. The Concessionaire shall be responsible for the maintenance of the structural components of the roof and shall be responsible for repairing any leaks associated therewith, and the University shall be responsible for non-structural maintenance of the portion of the roof for which it has a license hereunder. Notwithstanding the foregoing, if any damage to the roof or the walls is caused by the negligence or willful misconduct of (i) the University or its students, faculty or staff, the cost to repair such damage shall be considered Uncapped O&M Costs or (ii) the Concessionaire or its Representatives, including the Operator, then the cost to repair such damage shall not be recovered through the Utility Fee.
- (h) *Newton Road Chilled Water Plant Walls and Roof.* The Parties acknowledge and agree that the Newton Road Chilled Water Plant shares certain structural, load-bearing walls with a parking facility owned and operated by the University and that the ceiling of the Newton Road Chilled Water Plant is also the floor of a portion of the parking facility. In recognition of such shared walls and floor, the Parties agree that the University shall be responsible for all structural repairs and

replacements of such walls and such floor and ceiling and any other capital repairs associated therewith. In exchange therefor, the Concessionaire shall pay, within 30 Days after demand, 50% of such costs, which shall be considered Capped O&M Costs except for those repairs or replacements that would be considered a capital improvement under GAAP, in which case they shall be considered Uncapped O&M Costs. Notwithstanding the foregoing, if any damage to the roof is caused by the negligence or willful misconduct of (i) the University or its students, faculty or staff, the cost to repair such damage shall be considered Uncapped O&M Costs or (ii) the Concessionaire or its Representatives, including the Operator, then the cost to repair such damage shall not be recovered through the Utility Fee.

- (i) *Chilled Water Plant 1 Walls and Roof.* The Parties acknowledge and agree that the Chilled Water Plant 1 shares certain structural, load-bearing walls, building systems and a roof with a parking facility and office owned and operated by the University. In recognition of such shared walls, building systems and roof, the Parties agree that the University shall be responsible for all structural repairs and replacements of such walls, building systems and roof and any other capital repairs associated therewith. In exchange therefor, the Concessionaire shall pay, within 30 Days after demand, 50% of such costs, which shall be considered Capped O&M Costs except for those repairs or replacements that would be considered a capital improvement under GAAP, in which case they shall be considered Uncapped O&M Costs. Notwithstanding the foregoing, if any damage to the roof is caused by the negligence or willful misconduct of (i) the University or its students, faculty or staff, the cost to repair such damage shall be considered Uncapped O&M Costs or (ii) the Concessionaire or its Representatives, including the Operator, then the cost to repair such damage shall not be recovered through the Utility Fee.

Section 3.31. University Utility System Employees.

- (a) The Concessionaire covenants that prior to the termination of employment (other than for cause and subject to any limitation, qualification or restrictions arising out of applicable Law) of any University Utility System Employee that agrees to be transferred to, and employed by, the Concessionaire or the Operator as of the Closing Date prior to the fifth anniversary of the Closing Date, the Concessionaire shall provide the University with at least 60 Days' written notice to the University prior to a decision to so terminate the employment of such individual, which decision shall be in the sole discretion of the Concessionaire or the Operator, as applicable.
- (b) During the Term, the Concessionaire shall, or shall cause the Operator to, maintain a program for the employment of students of the University in connection with the Utility System Operations, which shall be on terms and conditions determined by the Concessionaire or Operator, as applicable. Further, the Concessionaire shall, or shall cause the Operator or their Affiliates, to develop and maintain an internship program for University students to gain

hands-on, practical experience with structured educational and mentorship opportunities either with respect to the Utility System or other utility systems owned, leased, operated or maintained by the Concessionaire, the Operator or any of their Affiliates.

Section 3.32. Utility System Light Fixtures. In connection with its obligation to operate and maintain the Utility System Light Fixtures as part of the Utility System, the Concessionaire shall be responsible for ensuring that such Utility System Light Fixtures remain in compliance with the Design Standards (as defined in the Performance Standards) and otherwise shall be maintained in accordance with Prudent Industry Practices. At the University's request, the Concessionaire shall design, construct and install additional Utility System Light Fixtures, the cost of which shall be subject to the prior Approval of the University prior to installation and shall be considered a Capital Improvement, subject to being reclassified as an Uncapped O&M Cost in accordance with Section 4.3(h). If there is a dispute as to whether a light fixture is a Utility System Light Fixture, the reasonable determination of the University shall be binding on the Parties. In addition, if there are exterior light fixtures that are not Utility System Light Fixtures, at the University's request, the Concessionaire shall provide operations, maintenance, repair and replacement services with respect thereto and shall charge the University the rate for such services as set forth in the Operations Plan. For the avoidance of doubt, if a Utility System Light Fixture is not located on the University Campus for the distribution of electricity, the Concessionaire shall have no right or obligation to distribute electricity to such Utility System Light Fixture but shall be obligated to operate and maintain such Utility System Light Fixture in accordance with this Section 3.32.

ARTICLE 4

CAPITAL IMPROVEMENTS AND MATERIAL CHANGES

Section 4.1. Concessionaire Responsibility for Capital Improvements. Other than the Ongoing Utility System Projects, the Concessionaire shall be responsible for all Capital Improvements with respect to the Utility System required to be completed during the Term in accordance with the terms of this Agreement, including as required by the Performance Standards.

Section 4.2. Authorizations Related to Capital Improvements. The Concessionaire's obligation to perform Capital Improvements shall be subject to the issuance by Governmental Authorities and the University of any and all Authorizations required to be issued by such parties with respect thereto, and the University agrees (i) not to unreasonably withhold, condition or delay the issuance of any Authorization to be issued by the University for an Approved Capital Improvement and (ii) to use its reasonable efforts to assist the Concessionaire in obtaining any Authorizations required to be issued by Governmental Authorities, provided that the Concessionaire shall reimburse the University in a timely manner for any reasonable out-of-pocket costs incurred by the University in providing such assistance. Without limiting the generality of the foregoing, the University agrees that it will reasonably assist and cooperate with the Concessionaire in obtaining any and all Authorizations (including any required rights of access over real property that is owned or controlled by the University) in order for the Concessionaire to perform an Approved Capital Improvement, which assistance shall include providing the Concessionaire reasonable access to the areas of the University Campus where the

Approved Capital Improvement will be located, subject to the reasonable conditions and restrictions of the University, provided that the Concessionaire shall reimburse the University in a timely manner for any reasonable out-of-pocket costs incurred by the University in providing such assistance.

Section 4.3. Approval of Capital Improvements and Material Changes.

- (a) The Concessionaire shall not have the right to make any (i) Capital Improvements or (ii) Material Changes, except those Capital Improvements or Material Changes which are Approved pursuant to Section 4.3(c).
- (b) The Concessionaire shall have the right to request Approval of (I) a proposed Capital Improvement or Material Change or (II) a change in the scope or cost of a previously Approved Capital Improvement or Material Change at any time (and shall identify whether an item requested for Approval or any portion thereof is a Capital Improvement or Material Change or a combination thereof), but the University shall not be obligated to consider any such requests for Approval except those requests (i) (A) contained in a proposed Five-Year Plan submitted in accordance with Section 7.2 and (B) proposed to be commenced in the first full Fiscal Year in such proposed Five-Year Plan; (ii) required to address an Emergency, a change in Law or a change in a Performance Standard; (iii) required in connection with a University Directive; (iv) required due to Force Majeure, all of which the University shall consider in good faith; or (v) submitted in connection with Capital Improvements or Material Changes directed primarily at discharging the Concessionaire's obligation pursuant to Section 7.3(e).
- (c) The Concessionaire shall request Approval of one or more proposed Capital Improvements or Material Changes or Approval of a proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change by (1) submitting a request to the University, or an office or person designated by the University Liaison, containing a detailed description of each proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change or (2) submitting a proposed Five-Year Plan in accordance with Section 7.2 containing a detailed description of each proposed Capital Improvement or Material Change proposed to be commenced in the first full Fiscal Year in such proposed Five-Year Plan or each proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change, provided that, in each case, such detailed description shall include: (A) total costs for construction and installation thereof, including any applicable sales or use tax; (B) forecasted annual operations and maintenance costs therefor; (C) any proposed modification to the Recovery Period (if applicable) for such Capital Improvement; (D) an explanation of all relevant assumptions, variables, and data sources, used to develop the proposal; (E) the proposed schedules, process, and other technical and logistics details associated with the proposed Capital Improvement and/or Material Change proposal, including any liquidated

damages if the Concessionaire fails to meet the proposed schedule; (F) how such proposed Capital Improvement and/or Material Change will improve the sustainability of the Utility System Operations or the University Campus; (G) any actual or anticipated tax credits or other benefits that will accrue to the Concessionaire as a result thereof of which the Concessionaire has knowledge, and a description thereof as well as a description as to how such credits or benefits will be incorporated into the Capital Improvement Cost (if Approved); (H) any fee or charge payable to the Operator in connection with such Capital Improvement or Material Change; and (I) any proposed change to the limits on the professional liability insurance coverage for the professionals providing services with respect to such Capital Improvement or Material Change and the associated change in the premium associated therewith; provided that, (x) to the extent any of the details set out in clauses (A) through (I) above are unavailable or inapplicable, the Concessionaire shall describe the reason for such unavailability or inapplicability and (y) to the extent that the Concessionaire has explicitly requested that the University respond only pursuant to Sections 4.3(c)(ii), (iii) or (iv), the Concessionaire may include an indicative estimate or estimate range with respect to Sections 4.3(c)(A) or (B). To the extent the University elects to, or is required to, consider a request for Approval of a proposed Capital Improvement or Material Change or a change in the scope or cost of a previously Approved Capital Improvement or Material Change, the University shall review such request and, in its discretion:

- (i) Approve such request in accordance with the terms of such request after having undertaken all such necessary action and secured all authorizations, consents and approvals required to be obtained by the University with respect to such Approval at such time, unless the Concessionaire's written request submitted to the University explicitly requested that the University respond only pursuant to Sections 4.3(c)(ii), (iii) or (iv); or
- (ii) provide a written response requiring that the Concessionaire (1) perform additional work with respect to such proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change to provide further information regarding the scope, design or cost thereof and/or multiple alternative designs therefor to the University, which additional work may include procuring design services or a quotation for a guaranteed maximum price or lump sum contract from a contractor or multiple contractors for the proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change or procuring any details set out in clauses (A) through (I) of Section 4.3(c)(2) that were previously unavailable, provided that the cost of such additional work shall be subject to the University's prior Approval, and (2) after performing such additional work, submit a revised request for Approval by the University pursuant to this Section 4.3(c), which revised request, if the initial request was made in connection with the submission of a proposed Five-Year

Plan, the University shall consider with respect to the same proposed Five-Year Plan, if submitted within 15 Days before the commencement of the first Fiscal Year of such Five-Year Plan; or

- (iii) (1) provide the Concessionaire with comments on such proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change, including comments on any details provided in the Concessionaire's proposal, which may include comments from the University intended to align the proposal with the larger University Campus capital improvement plans existing at such time or disagreeing with its characterization as a Capital Improvement or Material Change, and (2) require that the Concessionaire incorporate such comments and submit a revised request for Approval pursuant to this Section 4.3(c); provided that if the University elects to exercise its rights under this Section 4.3(c)(iii), then the Concessionaire shall have the right, upon written notice to the University, to withdraw its request for Approval; or
- (iv) (1) reject such proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change and (2) if such proposed Capital Improvement or Material Change or change to the scope of a previously Approved Capital Improvement or Material Change is necessary to comply with Prudent Industry Practices, applicable Law, or the Performance Standards, provide the Concessionaire with a reasonably detailed explanation for such rejection, provided that the University shall not be permitted to reject such proposal under this Section 4.3(c)(iv) if (w) such proposal is required to cause the Utility System to comply with any new Law or change in Law existing as of the Setting Date and the Concessionaire has received written notice from the applicable Governmental Authority that the Utility System is not in compliance therewith or such proposal is required to cause the Concessionaire to comply with Section 7.3(e), (x) the Concessionaire has reasonably investigated any potential alternatives to such proposal and provided the University with reasonable evidence of such investigation, (y) the Concessionaire has discussed in good faith with the University and reasonably considered any potential viable alternatives to such proposal and (z) the University has provided no reasonable alternative that would address such new or changed Law or the requirement to comply with Section 7.3(e), as applicable, that the University has confirmed that it would Approve.

Notwithstanding anything to the contrary in the foregoing, if a single request for Approval pursuant to this Section 4.3(c) includes multiple discrete proposed Capital Improvements or Material Changes or changes in the scope or cost of a previously Approved Capital Improvement or Material Change, the University

shall have the right to provide different responses with respect to each proposal included in such request.

- (d) To the extent that the Concessionaire elects to abandon a proposed Capital Improvement or Material Change after it has been Approved by the University, which the Concessionaire may do so upon Notice to the University, unless such Capital Improvement or Material Change is the subject of a University Directive, the Concessionaire shall be obligated to promptly restore the Utility System and any other affected area of the University Campus to the condition that existed prior to the commencement of such Capital Improvement or Material Change. As a condition of its Approval of any proposed Capital Improvement or Material Change or proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change, the University may require certain payments of liquidated damages by the Concessionaire to the University if the Concessionaire does not meet the timeframe set forth in the applicable Approval regardless of the abandonment of such Capital Improvement or Material Change, but only to the extent such liquidated damages are proposed in the Concessionaire's most recent request for Approval thereof.
- (e) To the extent a proposed Capital Improvement or proposed change in a previously Approved scope or cost of a Capital Improvement is Approved, the Concessionaire shall have the right to (i) deem the cost of such Capital Improvement (up to the Approved amount) or the change in such cost (up to the Approved amount), as applicable, a New Approved Capital Improvement Cost in accordance with Schedule 5 and (ii) include the out-of-pocket costs incurred by the Concessionaire in connection with preparing and submitting a revised request for Approval of such Capital Improvement pursuant to Section 4.3(c)(ii) (if applicable) as part of such New Approved Capital Improvement Cost. The Approved out-of-pocket costs incurred by the Concessionaire pursuant to Section 4.3(c)(ii)(1) in connection with a proposed Capital Improvement or a proposed change in the scope or cost of a previously Approved Capital Improvement that is not Approved shall be included in Uncapped O&M Costs. For any proposed Material Change that is not a Capital Improvement or any proposed change in the scope or cost of a previously Approved Material Change, the out-of-pocket costs incurred by the Concessionaire pursuant to Section 4.3(c)(ii) shall be included in Uncapped O&M Costs.
- (f) After Approval of a proposed Capital Improvement or Material Change or a proposed change in the scope or cost of a previously Approved Capital Improvement or Material Change, the Concessionaire shall make such Capital Improvement or Material Change in accordance with this Agreement, but subject to Section 4.3(d).
- (g) Notwithstanding anything to the contrary contained in this Section 4.3, to the extent that the Concessionaire incurs any out-of-pocket costs as O&M Costs, it shall have the right to request that the University Approve those costs as a Capital Improvement and that those costs be considered as such, and such

request shall be considered a request for Approval of a proposed Capital Improvement.

- (h) In the event that the cost of any Approved Capital Improvement or Material Change is less than \$100,000 (Adjusted for Inflation), such costs will be classified as Uncapped O&M Costs for purposes of calculating the Utility Fee, unless otherwise indicated by the University, in its discretion, in its Approval thereof.

Section 4.4. University's Capital Plan. The Concessionaire shall reasonably cooperate with the University in the development, modification, and discussion of the University's capital plans and energy conservation initiatives, including participating with the University's capital planning and capital plan forecasting processes, attending planning meetings, and, as requested by the University, attending and participating in University meetings related to the University's capital plans.

ARTICLE 5 MODIFICATIONS

Section 5.1. University Directives. The University may, at any time during the Term, issue a University Directive to the Concessionaire, which may include (i) the construction of Capital Improvements and the addition to or removal from the Utility System of buildings or other improvements owned, leased or operated by the University or its Affiliates or (ii) the design, demolition, project management, construction, repair, replacement, remodeling, renovation, reconstruction, enlargement, addition, alteration, painting, or structural or other improvements not included in the Utility Facilities but related thereto. No University Directive shall have the effect of reducing the components of the Variable Fee Component or Fixed Fee. Subject to the Concessionaire having obtained (with the cooperation of the University) all relevant Authorizations from all relevant Governmental Authorities required for the relevant work, the Concessionaire shall perform the work required to implement such University Directive. Utility Facilities constructed as the result of a University Directive shall be (a) deemed to be part of the Utility System for purposes of this Agreement and (b) included in the Utility System to be operated by the Concessionaire under the terms of this Agreement. To the extent any University Directive requires the construction of a Capital Improvement, the cost of such Capital Improvement shall be included as a New Approved Capital Improvement Cost up to the Approved cost of such Capital Improvement set forth in the University Directive. To the extent any University Directive requires the construction of anything other than a Capital Improvement, the costs associated therewith shall be Uncapped O&M Costs in accordance with the definition thereof. In addition, with respect to any University Directive, the Concessionaire and the University shall determine in good faith the forecasted annual ongoing operations and maintenance costs associated with such University Directive, and the Capped O&M Index shall be increased by such amount. To the extent that that an order or directive would be a University Directive but for the operation of sub-paragraph (4)(y) of the definition of "University Directive", and in the event that the Concessionaire notifies the University in writing that it is not willing to carry out such order or directive for such reason: (A) the University may elect to engage a third party to perform the relevant order or directive, and (B) if the University so elects, the University and the Concessionaire shall determine in good faith any corresponding

adjustments to the Utility Fee and other provisions of the Concession Agreement that may be required to put the Parties in substantially the same economic position as they were prior to such actions being taken, provided the University shall not be required to compensate the Concessionaire for any benefit that the Concessionaire would have received if it undertook the University Directive.

Section 5.2. Performance of Modifications. Subject to the other provisions of this Article 5, the Concessionaire shall ensure that University Directives are performed in a good and professional manner and diligently complied with and implemented in accordance with Prudent Industry Practices.

Section 5.3. Addition, Removal and Lease of Property.

- (a) If, after the Closing Date, the University sells, conveys, leases for a period of time longer than the remaining Term or otherwise transfers ownership of any real property within the University Campus to a third party unaffiliated with the University, then, contemporaneously with such transfer, the Concessionaire shall disconnect such real property from the Utility System and remove or abandon in place all Utility Facilities and Utility System Assets thereon and shall not be permitted to serve such real property, except if Approved in accordance with Section 3.15(c). However, if the University elects to enter into a concession agreement with a third party to operate and maintain any real property that had been part of the University Campus, the Concessionaire shall not be required to disconnect such real property from the Utility System. If such disconnection causes a Capital Improvement that is or had been a New Approved Capital Improvement to be removed from the Utility System, the Capital Improvement shall continue to be included in the Variable Fee Component in accordance with this Agreement as if not removed from the Utility System. The Concessionaire shall reasonably cooperate with the University and the transferee of such real property in such disconnection. In connection therewith, the University and the Concessionaire shall cooperate in good faith to make any reasonably necessary adjustments to the Key Performance Indicators and the Performance Standards as a result of such sale, conveyance or lease.
- (b) Due to the fact that the Concessionaire is agreeing to service the University Campus throughout the Term, if, after the Closing Date, the University currently or thereafter leases, sub-leases, or otherwise provides a leasehold interest in real property served by the Utility System for less than or equal to the period of time remaining in the Term to a third party unaffiliated with the University, then, to the extent that it would not be prohibited by Law, the Concessionaire shall continue to provide Utilities to such real property in accordance with this Agreement, and the University shall remain obligated to pay the Utility Fee attributable to such real property. The Concessionaire is only entitled to the continued receipt of the Utility Fee attributable to such real property and shall have no interests or rights to charge or collect additional payments from the University, the lessees or sub-lessees for the provision of Utilities to such real property.

- (c) The University, at its discretion, may, pursuant to a University Directive, cause the Concessionaire to provide Utility Services to any portion of the University Campus not served by the Utility System at that time and may expand the definition of the Main Campus and/or the Oakdale Campus.

Section 5.4. Domestic Water Meters. Following the Closing Date, the Concessionaire shall complete the metering of the Domestic Water System (as defined in the Performance Standards) consistent with the University's commencement of such metering project, subject to the Approval by the University of any Capital Improvements required therefor in accordance with Section 4.3.

ARTICLE 6 PERFORMANCE STANDARDS

Section 6.1. Compliance with Performance Standards. The Concessionaire shall, at all times during the Term, cause the Utility System Operations to comply with and implement the Performance Standards in all material respects (including any changes or modifications to the Performance Standards pursuant to the terms of this Agreement); provided that the Concessionaire shall have a reasonable period of time to comply with the introduction of changes or modifications to the Performance Standards that are made from time to time in accordance with the terms of this Agreement. The Concessionaire shall have in place at all times during the Term an Operations Plan. Except as specifically set forth herein, the Concessionaire shall perform all work required to comply with and implement the Performance Standards (including the Capital Improvements described therein) as part of the Utility System Operations and at its sole cost and expense.

Section 6.2. Proposed Performance Standards. If the Concessionaire, at its cost and expense, wishes to implement and use performance standards for the operation of the Utility System other than the Performance Standards, the Concessionaire must provide notice of such proposed performance standards to the University for Approval. The Concessionaire's proposed performance standards must be accompanied by an explanation of the Concessionaire's rationale for making its proposal and all relevant supporting information, certificates, reports, studies, investigations and other materials as are necessary to demonstrate that the Concessionaire's proposed performance standards are reasonably designed to achieve or improve upon the intent of the applicable Performance Standards and are in compliance with Prudent Industry Practices and applicable Laws. The University may request any additional supporting information, certificates, reports, studies, investigations and other materials as are reasonably required by the University to determine if the Concessionaire's proposed performance standards are reasonably designed to achieve or improve upon the objectives of the applicable Performance Standards. Until the University provides its Approval for the implementation of the Concessionaire's proposed performance standards, the Concessionaire shall not implement the proposed performance standards and shall implement and comply with the Performance Standards. The Concessionaire's proposed performance standards shall be deemed incorporated into the Performance Standards upon Approval by the University in accordance with the terms hereof. It shall be unreasonable for the University to withhold its Approval if the proposed performance standards are reasonably designed to achieve or improve upon the intent of the applicable Performance Standards in a manner that does not unreasonably increase the cost to the

University. If the University refuses to Approve any proposed performance standards and the Concessionaire disagrees with such refusal, the Concessionaire's sole remedy shall be to submit such dispute to the procedures set forth in Article 18.

Section 6.3. Modified Performance Standards.

- (a) The Parties acknowledge that the services provided hereunder by the Concessionaire to the University may impact the quality of life on the University Campus. Because of the importance to the University of maintaining high standards with respect to such campus life, the University shall have the right, at any time during the Term, to modify or change the Performance Standards upon notice to the Concessionaire to (i) comply with any new Law or change in Law applicable to the Utility System Operations or (ii) conform the Performance Standards to standards or practices generally adopted with respect to Comparable Utility Systems or Prudent Industry Practices; any such modification shall not constitute a Compensation Event. In the event the University modifies the Performance Standards in accordance with the immediately preceding sentence, the Concessionaire shall promptly perform all work required to implement and shall comply with all such modifications and changes and in no event shall the Concessionaire be excused from compliance with any such modification or change, except as otherwise expressly provided in this Agreement, the cost of which shall be included in Uncapped O&M Costs (but only to the extent of the costs incurred to cause the Utility System to initially comply with such modification or change) or New Approved Capital Improvement Costs (if such modifications or changes are Capital Improvements); provided that the cost of ongoing compliance with any such modification or change may be included in Capped O&M Costs, if such costs would be included in the definition thereof. If (x) any such modification or change is a New Approved Capital Improvement, then the Concessionaire and the University shall determine in good faith the forecasted annual operations and maintenance costs for such New Approved Capital Improvement or (y) such modification or change is not a New Approved Capital Improvement but the Concessionaire and the University determine, in good faith, that it will require additional ongoing Capped O&M Costs after the completion of such modification or change, then, in each case, the Capped O&M Index shall increase by such amount. The Concessionaire shall have the right to challenge, pursuant to Article 18, any modified Performance Standard on the grounds that it does not meet the requirement of this Section 6.3(a). In connection with a change in the Performance Standard under this Section 6.3(a), the University and the Concessionaire shall cooperate in good faith to make any reasonably necessary adjustments to the Key Performance Indicators and any other Performance Standards as a result thereof.
- (b) If, during the Term, the University is of the opinion that a modification or change to the Performance Standards is necessary or desirable but such modification or change is not required by Section 6.3(a), the University may upon reasonable written notice to the Concessionaire modify or change the Performance Standards; provided, however, that any such change(s) or modification(s) in the

aggregate in a Fiscal Year shall constitute a Compensation Event only if such change(s) or modification(s) (i) are not in response to any action or omission on the part of the Concessionaire or the Operator and (ii) result in an increase, during any Fiscal Year, in operating expenses attributable to compliance with such change(s) or modification(s) (taking into account all such previous changes or modifications applicable in such Fiscal Year or any previous Fiscal Year) in excess of \$100,000 (annually Adjusted for Inflation) which cannot be charged through to the University as part of O&M Costs or recovered as a New Approved Capital Improvement Cost. At the University's request, the Concessionaire shall perform all work required to implement and shall comply with all such modifications and changes, and in no event shall the Concessionaire be excused from compliance with any such modification or change.

- (c) The University shall have the right to undertake the work necessary to ensure implementation of and compliance with any such modification or change to the Performance Standards if the Concessionaire fails to do so within a reasonable period of time; provided, however, that to the extent that such work is undertaken by the University, the Concessionaire shall pay to the University within 10 Business Days following demand therefor, or the University may offset from amounts owing to the Concessionaire in connection with such modification or change, (i) with respect to changes pursuant to Section 6.3(a) all costs to comply with such Performance Standard and (ii) with respect to Section 6.3(b), the costs of the portion of the work performed in order to comply with the Performance Standards existing immediately prior to such modification or change, and the University shall be responsible only for the incremental costs of the additional work required in order to implement such proposed modification or change to the Performance Standards and, without duplication with the foregoing, the Concession Compensation with respect to such modification or change.

Section 6.4. Post-Closing Transition Period Assessment. During the Post-Closing Transition Period, the Concessionaire shall have the right to propose to the University modifications to the Performance Standards and Key Performance Indicators based on the Concessionaire's assessment of historic Utility System Operations, including reasonable evidence to support such modification. The University shall consider any such proposals in good faith but shall not be obligated to agree to any such modifications. If the Concessionaire and the University, each acting reasonably, agree to such modifications, they shall enter into an amendment to memorialize such changes.

ARTICLE 7

UTILITY FEE, FIVE-YEAR PLAN, AND ENERGY SUPPLY

Section 7.1. Utility Fee.

- (a) As compensation for the services provided hereunder by the Concessionaire to the University in connection with the Utility System, the University shall pay to the Concessionaire the Utility Fee for each Fiscal Year or portion thereof during

the Term as determined in accordance with the formula described in Schedule 5 and in the manner set forth in this Section 7.1. At least 180 Days prior to the commencement of any Fiscal Year during the Term, the Concessionaire shall provide a forecast of the Utility Fee (as determined in accordance with Schedule 5, and subject to the limitations therein) to the University for the upcoming Fiscal Year (the “Forecast Utility Fee”), provided that the Concessionaire shall, by notice to the University (i) on or before 90 Days prior to the commencement of any Fiscal Year and (ii) again at least 10 Days and no more than 30 Days prior to the commencement of such Fiscal Year, adjust such Forecast Utility Fee as necessary, as determined by the Concessionaire in its good faith and reasonable discretion. The University shall pay the Forecast Utility Fee in 12 equal monthly installments, payable on the first Day of every month during the Fiscal Year, provided that if the Term expires on a date that is not the last day of a Fiscal Year, the Forecast Utility Fee for that last partial Fiscal Year shall be prorated based on the number of Days in that last Fiscal Year. The Forecast Utility Fee for the first Fiscal Year of the Term shall be \$55,386,489 prorated based on the number of Days remaining in the first Fiscal Year after the Closing and payable in equal monthly installments over the number of months remaining in such Fiscal Year. For purposes of providing the Forecast Utility Fee for any Fiscal Year after the first Fiscal Year, the Parties shall meet in advance and, acting in good faith, shall agree on the methodology for determining the Forecast Utility Fee, including, but not limited to, estimations of the CPI Index and the Capped O&M Costs for the current Fiscal Year.

- (b) Within 60 Days after the end of each Fiscal Year, the Concessionaire shall deliver to the University a statement (the “Reconciliation Statement”) which states the actual Utility Fee (as determined in accordance with Schedule 5, and subject to the limitations therein) for such Fiscal Year and provides a detailed accounting of each component of the Utility Fee and of the Capped O&M Costs incurred in such Fiscal Year, in each case calculated in a form and with such detail as may be reasonably requested by the University for the determination of the Utility Fee set forth in the Reconciliation Statement. If the Reconciliation Statement reveals that the Utility Fee for a Fiscal Year (as determined in accordance with Schedule 5, and subject to the limitations therein) is more than the Forecast Utility Fee for that Fiscal Year, the University agrees to pay the Concessionaire the difference in a lump sum within 30 Days after receipt of the Reconciliation Statement. If the Reconciliation Statement reveals that the Utility Fee for such Fiscal Year is less than the Forecast Utility Fee for that Fiscal Year, the Concessionaire will pay the University the difference in a lump sum within 30 Days after receipt of the Reconciliation Statement.
- (c) The records that the Concessionaire maintains with respect to the calculation of the actual Utility Fee shall be retained by the Concessionaire for a period of 5 Fiscal Years following the Fiscal Year to which such Utility Fee applied. The University shall have the right, through its Representatives, to examine, copy and audit such records at reasonable times, upon not less than 5 Business Days’ prior

notice, at such place within the City of Iowa City, Iowa as the Concessionaire shall reasonably designate from time to time for the keeping of such records. All costs of any such audit shall be borne by the University; provided, however, that if such audit establishes that the Utility Fee for the applicable Fiscal Year was lower than the final determination thereof as set forth in the Reconciliation Statement, by at least 1.0%, then the Concessionaire shall pay the cost of such audit. If, as a result of such audit, it is determined that the University has overpaid the Concessionaire on account of the Utility Fee, then the Concessionaire shall reimburse the University for any (i) undisputed amounts within 30 Days after such determination and (ii) amounts which have been determined to be due pursuant to Article 18 within 30 Days after such determination. If the Concessionaire disputes the results of an audit conducted pursuant to this Section 7.1(c), the Concessionaire's sole remedy shall be to submit such dispute to the procedures set forth in Article 18.

- (d) In addition, if an audit conducted pursuant to Section 7.1(c) establishes that the Utility Fee for the applicable Fiscal Year was lower than the final determination thereof, as set forth in the Reconciliation Statement, by at least 3.0%, then in addition to paying the cost of such audit and reimbursing the University for the payments in accordance with Section 7.1(c), the Concessionaire shall pay, as liquidated damages, 3 times the amount of the difference between the Utility Fee and the amount set forth in the Reconciliation Statement. The University and the Concessionaire agree that it would be impracticable and extremely difficult to fix the actual damage to the University if the actual Utility Fee was lower than the amount shown in the Reconciliation Statement by at least 3.0%. The University and the Concessionaire therefore agree that, in such instance, 3 times the amount of the difference between the Utility Fee and the amount set forth in the Reconciliation Statement is a reasonable estimate of the University's damages and that the University shall be entitled to said sum as liquidated damages. If the Concessionaire disputes the results of an audit conducted pursuant to Section 7.1(c), the Concessionaire's sole remedy shall be to submit such dispute to the procedures set forth in Article 18.

Section 7.2. Five-Year Plan.

- (a) The Concessionaire shall submit to the University a proposed Initial Five-Year Plan on or before 90 Days following the Closing Date and shall thereafter submit to the University a proposed Five-Year Plan at least 180 Days prior to the end of each Fiscal Year during the Term. Each proposed Five-Year Plan shall include the Capital Improvements and Material Changes (and shall identify whether an item requested for Approval is a Capital Improvement or Material Change or a combination thereof) that the Concessionaire proposes to make in each Fiscal Year in such proposed Five-Year Plan as well as anticipated O&M Costs, delineated between Capped O&M Costs and Uncapped O&M Costs, and the anticipated types of Supplies that will be used for each such Fiscal Year, including the estimated usage pattern over the course of the first Fiscal Year. The initial Five-Year Plan can include, and the University will consider in

accordance with Section 4.3, proposed Capital Improvements and Material Changes to the Utility System to address any conditions of the Utility System existing prior to the Closing Date. Each proposed Five-Year Plan shall be submitted in a format reasonably acceptable to the University as of the date of submission.

- (b) The University shall review and provide comments to the Concessionaire on the proposed Five-Year Plan, provided that to the extent pertaining to proposed Capital Improvements or Material Changes relating to the first full Fiscal Year in the proposed Five-Year Plan, such review and comments shall be conducted and provided in accordance with Section 4.3(c), and provided further that, subject to Section 7.2(c), if the University shall have previously Approved any such Capital Improvement or Material Change included in the proposed Five-Year Plan, the University shall not have the right to modify or rescind such prior Approval to the extent of such prior Approval. The Concessionaire shall promptly incorporate and use the University's comments on the proposed Five-Year Plan to prepare a revised version thereof and submit such revised version to the University. This process shall continue until the University Approves all components of the proposed Five-Year Plan, including the estimated usage of Supplies over the first Fiscal Year in such Five-Year Plan.
- (c) The proposed Five-Year Plan Approved by the University shall become the Approved Five-Year Plan as of the commencement of the first Fiscal Year in such proposed Five-Year Plan (or, in the case of a proposed Initial Five-Year Plan, as of the date of the University's Approval); provided, however, that no portion of an Approved Five-Year Plan related to the second through fifth full Fiscal Years therein shall be deemed Approved by the University, except to the extent that a Capital Improvement or Material Change is scheduled pursuant to such Approved Five-Year Plan to be started in the first full Fiscal Year and completed in the second through fifth full Fiscal Years therein. For the avoidance of doubt, the Approval of a Five-Year Plan that includes a Capital Improvement or Material Change that is not scheduled to be commenced until the second Fiscal Year therein at the earliest shall not be deemed an Approval of such Capital Improvement or Material for purposes of Article 4 or this Article 7.
- (d) If the Concessionaire does not accommodate or otherwise resolve any comment provided by the University pursuant to Section 7.2(b), the Concessionaire shall deliver to the University, within 10 Days after receipt of the University's comments, a written explanation as to why accommodation or other resolution of such comment would not allow the Concessionaire to meet the requirements of Section 3.2(a)(ii). The explanation shall include the facts, analyses and reasons that support the conclusion regarding such comment. Any dispute between the Concessionaire and the University over such comment shall be resolved pursuant to the procedures set forth in Article 18.
- (e) If a proposed Five-Year Plan or a portion thereof is not Approved by the commencement of the first Fiscal Year in such proposed Five-Year Plan, the

Approved Five-Year Plan or relevant portion thereof shall continue in effect until a new proposed Five-Year Plan is Approved, provided that in the case of the proposed Initial Five-Year Plan, no Approved Five-Year Plan shall be in effect until the proposed Initial Five-Year Plan is Approved, and provided further that nothing in this Section 7.2 shall permit the Concessionaire to make a Capital Improvement or Material Change except if it is Approved in accordance with Section 4.3(c). Until the initial Five-Year Plan is Approved following the Closing Date, the Concessionaire shall operate the Utility System in accordance with this Agreement and otherwise in substantially the same manner it had been operated immediately prior to Closing provided that nothing in this Section 7.2 shall permit the Concessionaire to make a Capital Improvement or Material Change except if it is Approved in accordance with Section 4.3(c).

- (f) For the avoidance of doubt, the Concessionaire's right to receive the Utility Fee, subject to the limitations contained herein and in Schedule 5, shall not be modified or superseded by the Approved Five-Year Plan.
- (g) Except as otherwise provided in Section 7.2(b), the contents of any Approved Five-Year Plan shall not be binding on any future Five-Year Plan.
- (h) Notwithstanding anything to the contrary in this Agreement, the Parties acknowledge and agree that all payments to the Operator pursuant to any agreement between the Concessionaire and the Operator to operate the Utility System that have been previously Approved by the University on or prior to the Closing Date, shall be deemed Approved and shall require no further Approval for any Five-Year Plan, provided that such payments do not materially differ from the payments or payment mechanics that were Approved by the University in its Approval of the Operator or otherwise.
- (i) In acknowledgement of the importance of the Utility System to the operation of the University Campus and the integrated delivery of services to students, employees, staff, faculty and visitors of the University Campus, the University Liaison and other University Representatives selected by the University will meet with a representative of the Concessionaire and the Operator on a quarterly basis in order to discuss and assess the implementation of the then-current Five-Year Plan, including any delays or failures to meet the then-current Five-Year Plan and discuss the development of the immediately subsequent Five-Year Plan.

Section 7.3. Energy and Water Supply; Coal-Free Requirement.

- (a) The Concessionaire shall assist the University with the procurement of sufficient electricity, natural gas or other energy supply inputs necessary to fully operate the Utility System as set forth in the Performance Standards (the "Supplies"). At the University's direction, assistance may include, but not be limited to, identification and development of Supply procurement opportunities, provision of market analysis and advice regarding the same, acting on behalf of the University to negotiate or assist in negotiating Supply purchases, acting on

behalf of the University or assisting the University in the operation of bidding mechanisms to procure competitive retail Supplies. The University shall be responsible for paying all Supply Costs directly to the vendor of such Supplies. The University, in connection with its commitment to sustainability, minimization of environmental impact, responsible energy procurement, and its rights and responsibilities as the energy Supply customer of record, shall enter into any contracts with a third party for providing Supplies to the Utility System (each, a “Supply Contract”); provided that the University shall have made a reasonable determination that each such Supply Contract is consistent with the then-current Approved Five-Year Plan or has issued a University Directive with respect to such Supply Contract. The University shall determine the types and sources of the Supplies and the appropriate entity (among the Concessionaire, the Operator and the University) to execute each Supply Contract, with the Concessionaire or Operator executing pursuant to a power of attorney, and the Concessionaire shall operate the Utility System consistent with the types and sources of Supplies determined by the University. In any case, regardless of which entity executes a Supply Contract, the University will be considered as the exclusive customer of the Supplies procured pursuant to this Section 7.3(a) or used for the operation of the Utility System. Notwithstanding the foregoing, the Parties acknowledge that as of the Time of Closing, there shall be in place certain Supply Contracts to provide Supplies as described in Schedule 6, and the Concessionaire’s obligations under this Section 7.3(a) with respect to the Supplies which are the subject of such Supply Contract shall be met by managing those Supply Contracts until their expiration or termination, at which time the Concessionaire shall be responsible for assisting the University with the procurement of those Supplies for the University Campus as provided herein immediately following the expiration or termination of those Supply Contracts. For the avoidance of doubt, if the third-party supplier of the Supplies fails to deliver such Supplies pursuant to the applicable Supply Contract, (i) such failure shall be a Delay Event (except with respect to any failure to deliver Supplies on University locations outside of the University Campus) and (ii) the Concessionaire acting on behalf of the University shall use commercially reasonable efforts to cause such third-party supplier to deliver such Supplies as soon as reasonably practicable, and (iii) as necessary, assist the University with the prompt replacement of such third-party supplier.

- (b) The Concessionaire shall, upon written notice from the University, be responsible for assisting the University with the procurement, billing and/or management of Supplies to the University or its Affiliates on University locations outside of the University Campus, and such assistance with the procurement, billing and/or management of Supplies shall be deemed part of the Utility System Operations. For clarification purposes, the Concessionaire shall be responsible for assisting the University with the management of Supplies under any existing Supply Contract described in Schedule 6 as provided in Section 7.3(a).

- (c) The Concessionaire shall ensure that any Supply Contracts negotiated by the Concessionaire provide that invoices are remitted to the Concessionaire, if so requested by the University in writing, or to such other entity as identified by the University. Promptly after receipt of such an invoice for Supply Costs from a third party but in no event more than 5 Business Days after receipt thereof, the Concessionaire shall forward the Supplier's invoice to the University, and the Concessionaire shall have no obligation to pay such Supply Costs.
- (d) The Concessionaire shall be responsible for procuring the water used for the Utility System from the Iowa River in accordance with the applicable Authorizations therefor or such other source as Approved by the University.
- (e) The Parties further acknowledge and agree that from and after January 1, 2025, the Utility System shall be capable without additional work or improvement to perform in a manner that satisfies all the requirements hereunder without the use of any coal in the Utility System Operations. In the event that the Concessionaire fails to comply with the restrictions on coal use set forth in this Section 7.3, unless otherwise waived by the University in writing or expressly provided in the Approved Five-Year Plan for that month, the Concessionaire shall pay to the University \$1,000,000 per month on a monthly basis for each month in which the Concessionaire fails to comply, which shall be payable within 5 Days after the end of the applicable month in which the Concessionaire fails to comply, and such failure shall be considered a Major KPI Event. The Parties agree that damages to the University as a result of the ongoing use of coal will be difficult and impracticable to ascertain and the monthly payment by the Concessionaire to the University described herein is a reasonable estimate of such damages and shall not be considered a penalty. Notwithstanding the foregoing, the Concessionaire shall not be required to make any payment to the University pursuant to this Section 7.3(e) for any periods during which the Concessionaire's failure to comply with this Section 7.3(e) is as a direct and primary result of a (i) Delay Event, (ii) University Directive or (iii) University Default.
- (f) The Concessionaire shall cause the Utility System to be operated using a mix of Supplies supported by the then-current Supply Contracts and the Approved Five-Year Plan. The Concessionaire shall consult the University with respect to any adjustments to the mix of Supplies required to operate the Utility System in accordance with this Agreement and any such adjustments shall only be made upon Approval from the University, which may be withheld in its sole discretion.

Section 7.4. Energy Use Intensity Reduction and Energy Conservation Measures.

Within 2 Years after the Closing Date, the University shall have the right to request in writing that the Concessionaire diligently prepare and provide to the University a detailed study with recommendations and proposals for opportunities to reduce the energy use intensity on the University Campus, and the Concessionaire shall in good faith discuss with the University the Concessionaire implementing such recommendations and proposals. In addition, in connection with each Five-Year Plan, the Concessionaire may propose certain measures or improvements on

the University Campus, including energy conservation measures, buying strategies in connection with Supplies, or such other improvements anticipated to achieve an energy use intensity reduction. The University may consider such proposals in its sole discretion in connection with reviewing such Five-Year Plan and any Approval of the same may include a shared savings of costs with respect thereto.

ARTICLE 8

REPORTING; AUDITS; INSPECTIONS

Section 8.1. Reports.

- (a) *Incident Management and Notifications.* The Concessionaire shall (i) provide notice to the University of all Emergencies as promptly as possible, and, in any event, not later than 6 hours after the Concessionaire or the Operator becomes aware of the Emergency, and (ii) promptly provide notice to the University of all material accidents and incidents occurring with respect to the Utility System and of all claims in excess of \$25,000 annually made by or against the Concessionaire or potential claims in excess of \$25,000 annually that the Concessionaire reasonably expects to make against, or to be made against it by, third parties.
- (b) *Environmental Incident Management and Notifications.* The Concessionaire shall provide notice to the University as promptly as possible, and, in any event, not later than 6 hours after the Concessionaire becomes aware of the Release (accidental or otherwise) of any reportable quantity, as defined under applicable Environmental Law, of Hazardous Substances occurring with respect to the Utility System or otherwise on the University Campus or any part thereof, which notice shall include the time of such Release, the agencies involved, the damage that has occurred and the remedial action taken. The Concessionaire shall be financially responsible and shall pay the costs and expenses of any remediation required as a result of any such Release of Hazardous Substances caused by the willful misconduct or negligent action of, or permitted by the negligent inaction of, the Concessionaire or any of its Representatives, which costs shall not be recoverable by the Concessionaire as part of the Utility Fee or otherwise pursuant to this Agreement, and the Concessionaire shall not be financially responsible for other Releases of Hazardous Substances from the Utility System, but shall be responsible for the remediation thereof, except to the extent such Release is an Excluded Liability. The Parties acknowledge and agree that if Hazardous Substances are Released from the Utility System but the Concessionaire was operating the applicable portion of the Utility System at the time of such Release in accordance with Prudent Industry Practices and the Performance Standards, then the Concessionaire will be conclusively deemed to have not caused such Release by its negligence or willful misconduct. The Concessionaire shall not be financially responsible for the actions or inactions of third parties except for (i) those actions or inactions with respect to which the Concessionaire or any of its Representatives shall have had prior knowledge of and could have used commercially reasonable efforts to prevent or mitigate and

- (ii) those actions or inactions consented in writing to or directed in writing by the Concessionaire or any of its Representatives.
- (c) *Financial Reports.* The Concessionaire shall deliver to the University within 120 Days after the end of each Fiscal Year a copy of the audited balance sheets of the Concessionaire at the end of each such Fiscal Year and the related audited statements of income, changes in equity and cash flows for such Fiscal Year, including, in each case, the notes thereto, together with the report thereon of the independent certified public accountants of the Concessionaire, in each case in a manner and containing information consistent with the Concessionaire's current practices and certified by the Concessionaire's chief financial officer that such financial statements fairly present the financial condition and the results of operations, changes in equity and cash flows of the Concessionaire as of the respective dates of and for the periods referred to in such financial statements, all in accordance with GAAP or IFRS, provided that if such financial statements are prepared in accordance with IFRS, such financial statements shall include a reconciliation statement setting forth any material discrepancies between IFRS and GAAP reporting with respect to the subject matter thereof. The Concessionaire's independent certified public accountants shall be subject to the University's Approval, provided the University's Approval shall not be required if the independent certified public accountants are KPMG, PriceWaterhouseCoopers, Ernst & Young, or Deloitte Touche Tohmatsu (or their respective successors-in-interest). The annual reasonable, actual-out-pocket cost of preparing these audited financial statements shall, for the first three Fiscal Years after the Closing be added to the Capped O&M Index, and shall not be included in the calculation of the Capped O&M Index.
- (d) *Regular Reports.* The Concessionaire shall deliver to the University all reports and information as set forth in the Performance Standards in the time and format described in the Performance Standards. In addition, within 30 days after the end of each quarter of each Fiscal Year, the Concessionaire shall provide the University with an allocation of the Utility Fee for such quarter by each Utility, and such other information reasonably requested by the University, so that the University can allocate costs across Utilities for internal billing purposes with respect to its buildings or departments.

Section 8.2. Information.

- (a) *Furnish Information.* At the request of the University, the Concessionaire shall, at the Concessionaire's cost and expense and at any and all reasonable times during the Term: (i) make available or cause to be made available (and, if requested by the University, furnish or cause to be furnished) to the University all information relating to the Utility System Operations, this Agreement or the Utility System as may be specified in such request and as shall be in the possession or control of the Concessionaire or its Representatives, and (ii) permit the University, after giving 10 Business Days' prior notice to the Concessionaire (which notice shall identify the Persons the University requests to be present for

an interview and describe with reasonable specificity the subject matter to be raised in the interview) to request the Concessionaire's approval, which approval shall not be unreasonably withheld, conditioned, or delayed, to discuss the obligations of the Concessionaire under this Agreement with any of the directors, officers, employees or managers of the Concessionaire, the Operator or their respective Representatives at times and places on the University Campus acceptable to all attendees (it being agreed that the Concessionaire shall have the right to be present during any such discussions with the Operator or Representatives of the Concessionaire or the Operator), for the purpose of enabling the University to determine whether the Concessionaire is in compliance with this Agreement. For the avoidance of doubt, this Section 8.2(a) does not impose a requirement to retain information not otherwise retained in the normal course of business or required to be retained by applicable Law.

- (b) *Confidentiality.* Unless disclosure is required by applicable Law, the University shall keep confidential any information obtained from the Concessionaire or its Representatives that constitutes a "trade secret" as defined by applicable Iowa Law, including Iowa Code Ann. § 550.2, as determined by the University in its reasonable discretion. In the event that the Concessionaire seeks to defend an action seeking the disclosure of information that the Concessionaire determines to be confidential pursuant to this Section 8.2(b), the University shall use commercially reasonable efforts to cooperate in such action at no out-of-pocket cost to the University, provided that the University shall not be required to institute any legal action against the requesting party. Notwithstanding anything to the contrary herein, the University and the Concessionaire may disclose the United States federal tax treatment and tax structure of the Transaction.

Section 8.3. Inspection, Audit and Review Rights of the University.

- (a) *Audit Right.* In addition to the rights set out in Section 7.1(c) and Section 8.2, the University may, at all reasonable times, upon 10 Business Days' prior notice, cause a Representative designated by it to carry out an Audit and Review of the information required to be maintained or delivered by the Concessionaire under this Agreement in connection with the performance of the Utility System Operations for the purpose of verifying the information contained therein verifying Utility System Operations and to otherwise track utility usage patterns and shall be entitled to make copies thereof and to take extracts therefrom, at the University's expense but, in any event, subject to Section 8.2(b). The Concessionaire shall, at reasonable times, make available or cause to be made available to the University or its designated Representative such information and material as may reasonably be required by the University or its designated Representative for its purposes and otherwise provide such cooperation as may be reasonably required by the University in connection with the same; provided, however, that such Audit and Review rights are limited to one Audit and Review per Fiscal Year.

- (b) *Inspection Right.* The University and its Representatives shall, at all reasonable times and upon reasonable prior notice and subject to the Concessionaire's reasonable safety requirements and protocols, have access to the Utility System and every part thereof, and the Concessionaire, at the reasonable cost and expense of the Concessionaire, shall and shall cause its Representatives to furnish the University with every reasonable assistance for inspecting the Utility System and the Utility System Operations for the purpose of Auditing and Reviewing the information relating to the Utility System Operations or ascertaining compliance with this Agreement and applicable Law subject to reasonable restrictions on access to confidential and proprietary information as determined by the Concessionaire.
- (c) *Tests.* The University and its Representatives shall, with the prior consent of the Concessionaire, which consent shall not be unreasonably withheld, conditioned or delayed, be entitled, at the sole cost and expense of the University and at any time and from time to time, to perform or cause to be performed, in accordance with Prudent Industry Practices, any test, study or investigation in connection with the Utility System or the Utility System Operations as the University may reasonably determine to be necessary in the circumstances, and the Concessionaire, at the cost and expense of the Concessionaire, shall, and shall cause its Representatives to, furnish the University or its Representatives with reasonable assistance in connection with the carrying out of such tests, procedures, studies and investigations.
- (d) *No Waiver.* Failure by the University or its Representatives to inspect, review, test or Audit and Review the Concessionaire's responsibilities under this Agreement or any part thereof, or the performance by the Concessionaire of the Utility Services, or the information relating to the Utility System Operations, shall not constitute a waiver of any of the rights of the University hereunder or any of the obligations or liabilities of the Concessionaire hereunder. Inspection, review, testing or Audit and Review not followed by a notice of Concessionaire Default shall not constitute a waiver of any Concessionaire Default or constitute an acknowledgement that there has been or will be compliance with this Agreement and applicable Law.
- (e) *No Undue Interference.* In the course of performing its inspections, reviews, tests and Audits and Reviews hereunder, the University shall minimize the effect and duration of any disruption to or impairment of the Utility System Operations or the Concessionaire's rights or responsibilities under this Agreement, having regard to the nature of the inspections, reviews, tests and Audits and Reviews being performed, except as necessary in the case of investigations of possible criminal conduct or University ordinance violations.

Section 8.4. Audits, Assistance, Inspections and Approvals. Wherever in this Agreement reference is made to the University or its Representatives providing assistance, services, Approvals or consents to or on behalf of the Concessionaire or its Representatives or to the University or its Representatives performing an Audit and Review or inspecting, testing,

reviewing or examining the Utility System, the Utility System Operations or any part thereof or the books, records, Documents, budgets, proposals, requests, procedures, certificates, plans, drawings, specifications, contracts, agreements, schedules, reports, lists or other instruments of the Concessionaire or its Representatives, such undertaking by the University or its Representatives shall not relieve or exempt the Concessionaire from, or represent a waiver of, any requirement, liability, Concessionaire Default, covenant, agreement or obligation under this Agreement or at law or in equity and shall not create or impose any requirement, liability, covenant, agreement or obligation (including an obligation to provide other assistance, services or Approvals) on the University or its Representatives not otherwise created or imposed pursuant to the express provisions of this Agreement.

ARTICLE 9 REPRESENTATIONS AND WARRANTIES

Section 9.1. Representations and Warranties of the University. The University makes the following representations and warranties to the Concessionaire and acknowledges that the Concessionaire and its Representatives are relying upon such representations and warranties in entering into this Agreement:

- (a) *Organization.* The University is an instrumentality of the State of Iowa duly organized and existing under the laws of the State of Iowa.
- (b) *Power and Authority.* The University has (i) duly authorized and approved the execution and delivery of this Agreement and (ii) duly authorized and approved the performance by the University of its obligations contained in this Agreement. The University has the power and authority to enter into this Agreement and to do all acts and things and execute and deliver all other documents as are required hereunder to be done, observed or performed by it in accordance with the terms hereof.
- (c) *Enforceability.* This Agreement has been duly authorized, executed and delivered by the University and constitutes a valid and legally binding obligation of the University, enforceable against the University in accordance with the terms hereof, subject only to applicable bankruptcy, insolvency and similar laws affecting the enforceability of the rights of creditors generally and to general principles of equity.
- (d) *Title.* At the Time of Closing, the University will have good and sufficient title (or good and sufficient title will be had for the benefit of the University by the BOR) to the Utility Facilities, the Utility System Land, the Utility System Assets and the Tunnels necessary for the Utility System Operations pursuant to this Agreement, subject only to Permitted University Encumbrances, and will be able to transfer or grant such interest to the Concessionaire as provided in this Agreement. Subject to any and all Permitted University Encumbrances existing at the Time of Closing and to the Actual Knowledge of the University, there is no recorded or unrecorded agreement, contract, option, commitment, right, privilege or other right of another binding upon, or which at any time in the

future may become binding upon, the University to sell, transfer, convey, subject to lien, charge, grant a security interest in or in any other way dispose of or materially encumber the Utility System. Subject to any and all Permitted University Encumbrances and to the Actual Knowledge of the University, the recorded or unrecorded restrictions, exceptions, easements, rights of way, reservations, limitations, interests and other matters that affect title to the Utility System (or any portion thereof) do not materially adversely affect the Concessionaire's ability to operate the Utility System in accordance with the terms hereof. No indebtedness for borrowed money of the University is or will be secured by any right or interest in the Utility System or the revenues or income therefrom, and no Person will have any claim or right to, or interest in, any income, profits, rents or revenue derived by the Concessionaire from or generated with respect to the Utility System (other than the Concessionaire and any claims, rights or interests granted by or otherwise relating to the Concessionaire); provided, however, the foregoing shall not apply to (i) revenues to which the University is or may be entitled to under this Agreement, (ii) revenues or income derived after the End Date, (iii) revenues or income received by the University from students or (iv) revenues or income received by the University from third parties as reimbursement for Utilities received by such parties.

- (e) *No Conflicts.* The execution and delivery of this Agreement by the University, the consummation of the Transaction (including the operation of the Utility System in accordance with the terms of this Agreement) and the performance by the University of the terms, conditions and provisions hereof have not and will not contravene or violate or result in a breach of (with or without the giving of notice or lapse of time, or both) or acceleration of any material obligations of the University under (i) any applicable Law, (ii) any agreement, instrument or document to which the University is a party or by which it is bound or (iii) the University's governing documents.
- (f) *Consents.* Other than the consent of the landlord under the Independence Road Annex Lease, no Consent that has not already been obtained is required to be obtained by the University from, and no notice or filing that has not already been given is required to be given by the University to or made by the University with, any Person (including any Governmental Authority) in connection with the execution, delivery and performance by the University of this Agreement or the consummation of the Transaction.
- (g) *Compliance with Law; Litigation; Environmental Matters.*
 - (i) The University has operated and is operating the Utility System in compliance, in all material respects, with all applicable Laws, and the University is not in breach of any applicable Law, in either case, that would reasonably be expected to have a Material Adverse Effect or a material adverse effect on the Concessionaire. To the Actual Knowledge of the University, (A) the University is in compliance, in all material

respects, with the terms and conditions of all Authorizations from Governmental Authorities, (B) no claim has been made by any Governmental Authority to the effect that an Authorization that the University has not obtained is necessary in respect of the operation of the Utility System, and (C) no additional Authorizations from any Governmental Authority are necessary for the operation of the Utility System as currently being operated.

- (ii) There is no action, suit or proceeding, at law or in equity, or before or by any Governmental Authority, pending nor, to the Actual Knowledge of the University, threatened against the University prior to or at the Time of Closing, which would reasonably be expected to have a Material Adverse Effect or a material adverse effect on the Concessionaire. As of the date hereof, there is no action, suit or proceeding, at Law or in equity, or before or by any Governmental Authority, pending nor, to the Actual Knowledge of the University, threatened against the University which could materially affect the validity or enforceability of this Agreement.
- (iii) There has been no Release of Hazardous Substances at, on or under the Utility Facilities that would reasonably be expected to have a Material Adverse Effect or a material adverse effect on the Concessionaire, except as cured to the satisfaction of the applicable Governmental Authority. To the Actual Knowledge of the University, (a) there is no pending investigation by a Governmental Authority concerning any Release of Hazardous Substances in connection with the Utility System or the Utility Facilities and (b) there has been no Release of Hazardous Substances in connection with the Utility System or the Utility Facilities that could reasonably result in liability to the Concessionaire.
- (h) *Financial Information.* The financial information of the University relating to the Utility System attached hereto as Schedule 9, which identifies operational costs for the periods that ended June 30, 2017 through June 30, 2019, and, fairly presents the financial information disclosed thereon in accordance with standard accounting procedures of the University with respect to the Utility System, and is adjusted for anticipated expenditures the Concessionaire will incur to operate the Utility System as it is currently operated.
- (i) *Utility System Contracts.* The University provided to the Concessionaire the true, correct and complete copies of each of the Utility System Contracts as of the Setting Date, and none of those Utility System Contracts have been terminated, amended, modified, supplemented or otherwise changed since the Setting Date. Each Utility System Contract is capable of being assigned to the Concessionaire, except as noted in Schedule 4, and is in full force and effect. The University is not in material breach of its obligations under any Utility System Contract, and no act or event has occurred which, with notice or lapse of time, or both, would constitute a material breach thereof, and, to the Actual Knowledge of the University, no other party to any Utility System Contract is in

material breach of its obligations under any Utility System Contract, and no act or event has occurred with respect to any such party, which with notice or lapse of time, or both, is or would reasonably be expected to constitute a material breach thereof.

- (j) *Absence of Changes.* Since June 30, 2019, there has not been any transaction or occurrence that has resulted or is reasonably likely to result in a Material Adverse Effect or a material adverse effect on the University. Since June 30, 2019 through the Closing, the University and the University's Contractors have operated the Utility System in a manner consistent with past practice and have not, for example, intentionally increased or decreased efforts and resources related to operations, maintenance or enforcement so as to reduce the value of the Concessionaire Interest.
- (k) *Brokers.* Except for Wells Fargo Securities, LLC ("Wells Fargo"), whose fees will be paid by the University, there is no investment banker, broker, finder or other intermediary which has been retained by or is authorized to act on behalf of the University who might be entitled to any fee or commission from the University in connection with the Transaction. There is also no investment banker, broker, finder or other intermediary which has been retained by or is authorized to act on behalf of the University who might be entitled to any fee or commission from the Concessionaire in connection with the Transaction.
- (l) *Accuracy of Information.* To the Actual Knowledge of the University, the factual and past historical information regarding the Utility System that the University provided to the Concessionaire in the virtual data room labeled "Project Hercules" hosted by IntraLinks, Inc. was accurate in all material respects at the time such information was prepared, except to the extent the University removed, revised or replaced such information prior to the Setting Date.
- (m) *Undisclosed Defects.* To the Actual Knowledge of the University, there are no material defects of the Utility System that could reasonably be expected to prevent the Utility System from being operated in accordance with the Performance Standards and Prudent Industry Practices.
- (n) *Independence Road Annex Lease.* The Independence Road Annex Lease is in full force and effect and has been made available for review by the Concessionaire.

Section 9.2. Representations and Warranties of the Concessionaire. The Concessionaire makes the following representations and warranties to the University (and acknowledges that the University is relying upon such representations and warranties in entering into this Agreement):

- (a) *Organization.* The Concessionaire is duly organized, validly existing and in good standing under the laws of the state of its organization. The capital stock,

units, partnership or membership interests and other equity interests or securities of the Concessionaire (including options, warrants and other rights to acquire any such equity interests) are owned by the Persons set forth in the written certification that the Concessionaire delivered to the University prior to the date hereof.

- (b) *Power and Authority.* The Concessionaire has the power and authority to enter into this Agreement and to do all acts and things and execute and deliver all other documents as are required hereunder to be done, observed or performed by it in accordance with the terms hereof.
- (c) *Enforceability.* This Agreement has been duly authorized, executed and delivered by the Concessionaire and constitutes a valid and legally binding obligation of the Concessionaire, enforceable against it in accordance with the terms hereof, subject only to applicable bankruptcy, insolvency and similar laws affecting the enforceability of the rights of creditors generally and to general principles of equity.
- (d) *No Conflicts.* The execution and delivery of this Agreement by the Concessionaire, the consummation of the Transaction and the performance by the Concessionaire of the terms, conditions and provisions hereof have not and will not contravene or violate or result in a material breach of (with or without the giving of notice or lapse of time, or both) or acceleration of any material obligations of the Concessionaire under (i) any applicable Law, (ii) any material agreement, instrument or document to which the Concessionaire is a party or by which it is bound or (iii) the articles, bylaws or governing documents of the Concessionaire.
- (e) *Consents.* No Consent that has not already been obtained is required to be obtained by the Concessionaire from, and no notice or filing that has not already been given is required to be given by the Concessionaire to, or made by the Concessionaire with, any Person (including any Governmental Authority) in connection with the execution, delivery and performance by the Concessionaire of this Agreement or the consummation of the Transaction, except for such consents which have been or will be obtained and notices which have been or will be given as of the Closing Date.
- (f) *Compliance with Law; Litigation.* The Concessionaire is not in breach of any applicable Law that could have a Material Adverse Effect. Neither the Concessionaire nor any Affiliate of the Concessionaire is listed on any of the following lists maintained by the Office of Foreign Assets Control of the U.S. Department of the Treasury, the Bureau of Industry and Security of the U.S. Department of Commerce or their successors or on any other list of Persons with which the University may not do business under applicable Law: the Specially Designated Nationals List, the Denied Persons List, the Unverified List, the Entity List, and solely with respect to the Concessionaire and its parent, the Debarred List. There is no action, suit or proceeding, at law or in equity, or

before or by any Governmental Authority, pending nor, to the best of the Concessionaire's knowledge, threatened against the Concessionaire prior to or at the Time of Closing, which will have a material adverse effect on (i) the Transaction or (ii) the validity or enforceability of this Agreement.

- (g) *Accuracy of Information.* To the actual knowledge of the Concessionaire, all information regarding the Concessionaire or the Operator provided to the University by or on behalf of the Concessionaire or the Operator was accurate in all material respects at the time such information was provided.
- (h) *Operator.* To the extent the Operator is not the Concessionaire, the Concessionaire represents and warrants as follows: To the best knowledge of the Concessionaire: (i) the Operator is duly organized, validly existing and in good standing under the laws of the state of its organization; (ii) the capital stock or other equity interests of the Operator (including options, warrants and other rights to acquire capital stock) is owned by the Persons set forth in the written certification that the Concessionaire delivered to the University prior to the date hereof; (iii) the Operator has the power and authority to do all acts and things and execute and deliver all other documents as are required hereunder to be done, observed or performed by it in connection with its engagement by the Concessionaire; (iv) the Operator has all necessary expertise, qualifications, experience, competence, skills and know-how to perform the Utility System Operations in accordance with this Agreement; (v) the Operator is not in breach of any applicable Law that would have a Material Adverse Effect; and (vi) is authorized to do business in the State of Iowa.
- (i) *Brokers.* Except for Barclays Capital Inc., whose fees will be paid by the Concessionaire or its Affiliates, there is no investment banker, broker, finder or other intermediary which has been retained by or is authorized to act on behalf of the Concessionaire or any of its Affiliates who might be entitled to any fee or commission in connection with the Transaction which could become a claim on, a liability of, or an Encumbrance on, the Utility System.

Section 9.3. Non-Waiver. No investigations made by or on behalf of any Party at any time shall have the effect of waiving, diminishing the scope of or otherwise affecting any representation or warranty made by the other Party in this Agreement or pursuant to this Agreement. No waiver by a Party of any condition, in whole or in part, shall operate as a waiver of any other condition.

Section 9.4. Survival.

- (a) *University's Representations and Warranties.* The representations and warranties of the University contained in Section 9.1 shall survive and continue in full force and effect for the benefit of the Concessionaire as follows: (i) as to the representations and warranties contained in Sections 9.1(a) through 9.1(g), inclusive, without time limit; and (ii) as to all other matters, for a period of 18 months following the Closing Date unless a bona fide notice of a Claim shall

have been given, in writing, in accordance with Section 20.1, prior to the expiry of that period, in which case the representation and warranty to which such notice applies shall survive in respect of that Claim until the final determination or settlement of that Claim, provided such determination or settlement is being pursued diligently and in good faith by the applicable Party.

- (b) *Concessionaire's Representations and Warranties.* The representations and warranties of the Concessionaire contained in Section 9.2 shall survive and continue in full force and effect for the benefit of the University as follows: (i) as to the representations and warranties contained in Sections 9.2(a) through 9.2(h), inclusive, without time limit; and (ii) as to all other matters, for a period of 12 months following the Closing Date unless a bona fide notice of a Claim shall have been given, in writing, in accordance with Section 20.1, before the expiry of that period, in which case the representation and warranty to which such notice applies shall survive in respect of that Claim until the final determination or settlement of that Claim, provided such determination or settlement is being pursued diligently and in good faith by the applicable party.
- (c) *Modification of Statutes of Limitations.* The survival periods set forth in this Section 9.4 shall apply with respect to all Claims notwithstanding any statute of limitations that would be applicable to such Claims under applicable Law. The Parties acknowledge and agree that they intend to modify the statutes of limitations with respect to all Claims to the extent such statutes of limitations would conflict with the provisions set forth in this Section 9.4.

ARTICLE 10

FINANCE OBLIGATIONS

Section 10.1. Concessionaire's Obligations. The Concessionaire shall be responsible for obtaining any financing for the performance of its obligations under this Agreement, which financing shall comply with all requirements of this Agreement. The Concessionaire shall be permitted to issue additional Leasehold Mortgage Debt or refinance existing Leasehold Mortgage Debt at any time during the Term provided that, as a condition thereof, the Concessionaire must comply with Section 3.6 in connection therewith.

Section 10.2. University's Obligations. The University shall, to the extent consistent with applicable Law and at the sole cost and expense of the Concessionaire, cooperate with the Concessionaire with respect to documentation reasonably necessary to obtain, maintain and replace financing for the performance of the obligations of the Concessionaire hereunder. The University's cooperation may include reviewing, Approving and executing documents which substantiate the terms of this Agreement (including any consents or agreements necessary to confirm that the debt evidenced by the relevant financing constitutes a Leasehold Mortgage Debt) and making information and material relating to the Utility System Operations available to any of the Concessionaire's lenders or proposed lenders to facilitate financing to the extent permitted by applicable Law and contractual obligations with third parties and to the extent reasonable in the circumstances, provided that such lenders and potential lenders shall hold such information in confidence (provided that such lenders and potential lenders may disclose such

information to Affiliates and their respective officers, employees, agents, advisors, stockholders, partners, members, accountants and attorneys to the extent the foregoing agree to maintain such information as confidential in accordance with this Section 10.2 or as may be compelled in a judicial, regulatory (including any self-regulatory organization) or administrative proceeding or as otherwise required by applicable Law or required by any Governmental Authority having jurisdiction over the lender) and the Concessionaire shall be liable for any disclosure by such lenders or potential lenders in breach thereof. If requested in writing to do so by the Concessionaire, the University shall, at the sole cost and expense of the Concessionaire, use its commercially reasonable efforts to cause the University's independent public accountants to reasonably cooperate in connection with the Concessionaire's public or private offering of securities, as the case may be. In addition, the University shall, promptly upon the request of the Concessionaire or any Leasehold Mortgagee, execute, acknowledge and deliver to the Concessionaire, or any of the parties specified by the Concessionaire, standard consents and estoppel certificates with respect to this Agreement which may be qualified, after reasonable diligence, to the best of the knowledge and belief of a designated Representative of the University. Nothing herein shall require the University to incur any additional obligations or liabilities (unless the University shall have received indemnification, as determined in the University's discretion, with respect thereto), to take any action or give any consent or enter into any document inconsistent with the provisions of this Agreement.

Section 10.3. Concessionaire's Obligation for Estoppel Certificates. The Concessionaire shall, promptly upon the request of the University, execute and deliver to the University, or any of the parties specified by the University, standard consents and estoppel certificates with respect to this Agreement which may be qualified to the best of the knowledge and belief of a designated Representative of the Concessionaire. Nothing herein shall require the Concessionaire to incur any additional obligations or liabilities or to take any action, give any consent or enter into any document inconsistent with the provisions of this Agreement or applicable Law.

Section 10.4. Prohibited Tax Shelter Transactions. The Concessionaire covenants and agrees that it shall not enter into any lease, sublease, concession, management agreement, operating agreement or other similar arrangement or other transaction that would cause the University to become a party to a "prohibited tax shelter transaction" within the meaning of Section 4965 of the Code (it being agreed that, for purposes of this Section 10.4, the University shall not be treated as having become a party to any such transaction solely by virtue of the execution of this Agreement or any lease, sublease, concession, management agreement, operating agreement or other similar arrangement or other transaction to which the University has consented). A violation of this Section 10.4 by the Concessionaire shall entitle the University to (a) recover from the Concessionaire, to the extent permitted by applicable Law, the amount of any Tax liability to which the University or any University official is subject and (b) require the Concessionaire, at the Concessionaire's expense, to prepare timely all statements and returns, and to maintain all lists and similar information that the University becomes obligated to disclose, file or maintain with any taxing authority or participant or otherwise as a result of such transaction.

ARTICLE 11 COMPLIANCE

Section 11.1. Compliance with Laws. The Concessionaire must at all times at its own cost and expense (but subject to the Concessionaire's express rights hereunder with respect to such costs and expenses, including its right to include the reasonable cost of compliance with any Law enacted after the Setting Date in the Uncapped O&M Costs in accordance with the definition thereof) observe and comply, in all material respects, and cause the Utility System Operations to observe and comply, in all material respects, with all applicable Laws now existing or later in effect, including those Laws expressly enumerated in this Article 11, and those that may in any manner apply with respect to the performance of the Concessionaire's obligations under this Agreement. The Concessionaire shall notify the University within 7 Days after receiving written notice from a Governmental Authority that the Concessionaire or the Operator may have violated any Laws.

Section 11.2. Non-Discrimination.

- (a) *Non-Discrimination Requirements.* The Concessionaire shall comply with, and maintain employment policies in a manner consistent with, all applicable Laws regarding equal employment opportunity and non-discrimination in employment, including: (i) the Civil Rights Act of 1964, 42 U.S.C. § 2000 *et seq.* (1981); (ii) the Civil Rights Act of 1991, P.L. 102-166; (iii) Executive Order Number 11246, 30 Fed. Reg. 12,319 (1965), reprinted in 42 U.S.C. § 2000(e) note, as amended by Executive Order Number 11375, 32 Fed. Reg. 14,303 (1967) and by Executive Order Number 12086, 43 Fed. Reg. 46,501 (1978); (iv) the Age Discrimination Act, 42 U.S.C. §§ 6101-6106 (1981); (v) the Age Discrimination in Employment Act, 29 U.S.C. §§ 621-34 (1967); (vi) the Rehabilitation Act of 1973, 29 U.S.C. §§ 793-794 (1981); (vii) the Americans with Disabilities Act, 42 U.S.C. § 12101 *et seq.* (1990); (viii) the Uniformed Services Employment and Reemployment Rights Act, 38 U.S.C. § 4301 *et seq.*; and (ix) the Iowa Civil Rights Act of 1965, Iowa Code Chapter 216.
- (b) *Contract Provisions.* The Concessionaire shall cause all Contractors to comply with each of the federal Laws and Iowa Laws referenced in this Section 11.2, and shall include a provision to such effect in each contract entered into with any Contractor.

Section 11.3. Compliance with Wage and Hour Laws. The Concessionaire shall comply with all applicable Laws governing employment and/or employee wages and hours, including (i) the Fair Labor Standards Act, 29 U.S.C. § 201 *et seq.*; (ii) the Iowa Minimum Wage Law, Iowa Code Ann. § 91D; and (iii) the Iowa Wage Payment Collection Law, Iowa Code Ann. § 91A.

Section 11.4. Safety Laws. The Concessionaire shall comply with and maintain employment policies in a manner consistent with all applicable Laws regarding workplace safety, including the Occupational Safety and Health Act of 1970, 29 U.S.C. § 651 *et seq.*

Section 11.5. Immigration Laws. The Concessionaire shall comply with and maintain employment policies in a manner consistent with all applicable Laws regarding lawful employment of U.S. citizens and non-U.S. citizens, including taking reasonable steps to verify the employment eligibility of all employees as required under such Laws.

Section 11.6. Labor Disputes. The Concessionaire shall take all reasonable steps to resolve any alleged or actual labor dispute between it or the Operator and any representative of its or the Operator's employees; further, any work stoppage or strike resulting from such labor dispute shall not excuse the Concessionaire's performance under this Agreement. The Concessionaire shall use good faith efforts and take immediate steps to effect the limitation and/or removal, by lawful means, of any pickets or picketing that are the result of an alleged or actual labor dispute between it and any representative of its employees; provided however, if such pickets or picketing results in the obstruction of ingress or egress of any Public Way or University facility, the Concessionaire shall immediately seek injunctive relief to terminate such pickets or picketing that may be available under applicable Laws.

Section 11.7. Employee Conduct and Performance. The Concessionaire shall ensure that it and the Operator have workplace conduct policies for their employees providing services under this Agreement that are at least as stringent as substantially similar policies and enforcement provisions as those of the University's general policies for conduct in the workplace and are in accordance with Prudent Industry Practices. These policies shall include policies related to workplace behavior; anti-harassment; weapons; confidentiality; security and safety; possession of alcohol; illegal drugs or weapons in the workplace; violation of criminal statutes that have a direct relationship to work performed by the employee; negligent or incompetent performance of work hereunder; gross misconduct related to work; conduct or interactions with University employees, students or visitors that impair or prejudice the University or its relationship with such persons; and unsafe practices or work performance that create a risk of harm to the employee, other persons or property.

Section 11.8. Non-Collusion. By signing this Agreement, the Concessionaire duly swears, affirms and warrants that it is the contracting party, and that it has not, nor has any other member, employee, Representative, agent or officer of the firm, company, corporation or partnership represented by it, directly or indirectly entered into or offered to enter into any combination, conspiracy, collusion or agreement to receive or pay any sum of money or other consideration for the execution of this Agreement other than that which appears upon the face of this Agreement.

Section 11.9. Conflict of Interest. The Concessionaire certifies and warrants to the University that neither it nor any of its agents, Representatives or employees who will participate in any way in the performance of Concessionaire's obligations hereunder has or, for so long as any such person continues in such capacity, will have any conflict of interest, direct or indirect, with the University during the performance of this Agreement, other than in respect of any disputes that may arise hereunder or in connection herewith.

Section 11.10. Drug-Free Workplace Certification. The Concessionaire hereby covenants and agrees to make a good faith effort to provide and maintain a drug-free workplace. The Concessionaire will give written notice to the University within 7 Days after receiving actual

notice that the Concessionaire or an employee of the Concessionaire has been convicted of a criminal drug violation occurring in the Concessionaire's workplace. The Concessionaire must at all times at its own cost and expense (but subject to its right to include the cost of compliance with any Law enacted after the Setting Date in the Uncapped O&M Costs in accordance with the definition thereof) observe and comply, in all material respects, and cause the Utility System Operations to observe and comply, in all material respects, with all applicable Laws now existing or later in effect that are applicable to it or such Utility System Operations, including those Laws expressly enumerated in this Article 11, and those that may in any manner apply with respect to the performance of the Concessionaire's obligations under this Agreement. The Concessionaire must notify the University within 7 Days after receiving notice from a Governmental Authority that the Concessionaire may have violated any Laws as described above.

Section 11.11. Minority-Owned and Women-Owned Business Enterprises. The Concessionaire shall use good faith efforts during the Term to obtain the participation of M.B.E./W.B.E. in its Utility System Operations, including requiring the Operator to participate in such programs. In order to demonstrate this good faith efforts commitment, the Concessionaire shall, and shall cause all Contractors to, complete and submit to the University such documentation and information as the University may reasonably request.

Section 11.12. University Accreditation. The Concessionaire shall ensure that the Utility System provides a sufficient quantity of Utilities in a timeframe sufficient such that the University, or any portion thereof, may maintain any third-party accreditation or other third-party standard of which the University has provided the Concessionaire notice prior to the Setting Date.

Section 11.13. Title V Permit and Other Campus-Wide Authorizations. The Concessionaire acknowledges and agrees that, in connection with (I) the Title V permit for Utility System sources issued by the Iowa Department of Natural Resources (as may be extended, renewed, modified or replaced, the "Title V Permit"), (II) Plantwide Applicability Limit Permit issued by the Iowa Department of Natural Resources (as may be extended, renewed, modified or replaced, the "PAL Permit"); (III) the storm water permit for the municipal separate storm sewer system issued by the Iowa Department of Natural Resources (as may be extended, renewed, modified or replaced, the "MS4 Permit"); and (IV) the permit issued by the U.S. Environmental Protection Agency to the University regarding its boilers' maximum achievable control technology (as may be extended, renewed, modified or replaced, the "Boiler MACT Authorization"), together with the Title V Permit, the PAL Permit and the MS4 Permit, the "Campus-Wide Permits"): (i) the University will continue to be the "owner" identified in the Campus-Wide Permits during the Term; (ii) the Concessionaire will become the "operator" of permitted emission sources from the Utility System identified in the Campus-Wide Permits during the Term; (iii) the Concessionaire shall be responsible for operating all emission sources in compliance with all permit and regulatory requirements and meeting all monitoring, recordkeeping and reporting requirements related to such permitted emission sources; (iv) the Concessionaire shall provide to the University (a) complete drafts of all required reports with respect to the Utility System portion of the Campus-Wide Permits for the University to review and Approve at least 15 Business Days prior to the deadline to submit such reports, (b) any information regarding utility operations required for Campus-wide reports by the later of (1) 10 Days after the end of the applicable reporting period and (2) (A) 30 Days prior to the applicable

submission deadline or (B) 10 Days after a University request not related to a submission deadline, (c) information to be submitted in connection with the renewal of the regulatory permits or any portion thereof within the time period reasonably established by the University and (d) applications for new permits or modifications to any Campus-Wide Permit for review and Approval at least 30 Days prior to submission to a regulatory agency; and (v) the Parties shall reasonably cooperate with each other in connection with any matters relating to the Campus-Wide Permits. The Concessionaire shall comply with all Campus-Wide Permits to the extent applicable to the Utility System or Utility System Operations, provided that the Concessionaire shall not be responsible for ensuring compliance with the MS4 Permit to the extent related to Utility System Operations performed outside of Utility Facilities or Utility System Land.

Section 11.14. Financial and Audit Standards. The Concessionaire shall comply, and its financial statements shall be prepared in accordance, with GAAP or IFRS, provided that if such financial statements are prepared in accordance with IFRS, such financial statements shall include a reconciliation statement setting forth any material discrepancies between IFRS and GAAP reporting with respect to the subject matter thereof.

Section 11.15. University Payments. All financial obligations of the University under this Agreement are payable solely from the then-current revenues of the University legally available for such purpose and the Concessionaire shall have no right to receive payment from moneys raised by taxation or state appropriations. The failure of the University to comply with its financial obligations hereunder shall not preclude the Concessionaire from bringing a claim therefor pursuant to the express provisions hereof.

ARTICLE 12 PAYMENT OBLIGATIONS

Section 12.1. Certain Payment Obligations of the Concessionaire. To the extent permitted by Law, the Concessionaire shall have a payment obligation to the University and each of its Representatives with respect to the full amount of any Losses actually suffered or incurred (as they are suffered or incurred) by the University or any such Representative, based upon, arising out of, related to, occasioned by or attributable to (i) any failure by the Concessionaire, the Operator or each of their respective Representatives to comply with, observe or perform any of the covenants, obligations, agreements, terms or conditions in this Agreement or, subject to the expiration of the survival period specified in Section 9.4(b), any breach by the Concessionaire of its representations or warranties set forth herein, (ii) any Assumed Liabilities, (iii) any Tax or recording charge attributable to any Transfer of the Concessionaire Interest or any part thereof by the Concessionaire, (iv) any increase in Property Taxes payable by the University that is not included in the definition of Uncapped O&M Costs or (v) any claim for brokerage commissions, fees or other compensation by any Person who acted on behalf of the Concessionaire or its Representatives in connection with this Agreement, any Transfer of the Concessionaire Interest or any part thereof or any other matter affecting the Utility System; provided, however, that, except with respect to Claims resulting from Third Party Claims, subject to Section 12.5 Claims shall be made in writing within a period of 3 Years following the expiration of the Term or earlier termination of this Agreement or within such shorter period as may be prescribed by the applicable statute of limitations. The Parties agree that the

Representatives of the University are intended to be third party beneficiaries of the obligations of the Concessionaire pursuant to this Article 12.

Section 12.2. Certain Payment Obligations of the University. To the extent permitted by Law, and without limiting any other remedy under this Agreement (including Concession Compensation or AA-Compensation as provided in this Agreement) the University shall have a payment obligation to the Concessionaire and each of its Representatives with respect to any Losses actually suffered or incurred by the Concessionaire or any such Representative, based upon, arising out of, related to, occasioned by or attributable to (i) any failure by the University or any of its employees, officers or agents (collectively, the “University Responsible Parties”) to comply with, observe or perform any of the covenants, obligations, agreements, terms or conditions in this Agreement or, subject to the expiration of the relevant survival period specified in Section 9.4(a), any breach by the University of its representations or warranties set forth herein, (ii) any Excluded Liabilities, (iii) any claim for brokerage commissions, fees or other compensation by any Person who acted on behalf of the University or any University Responsible Party in connection with this Agreement or any other matter affecting the Utility System or (iv) any payment of Property Taxes with respect to the Utility System that are not the result of the actions or omissions of the Concessionaire and therefore not paid to the Concessionaire as Uncapped O&M Costs; provided, however, that, except with respect to Claims resulting from Third Party Claims, subject to Section 12.5 Claims are made in writing within a period of 3 Years following the expiration of the Term or earlier termination of this Agreement or within such shorter period as may be prescribed by the applicable statute of limitations. The Parties agree that the Representatives of the Concessionaire are intended to be third party beneficiaries of the obligations of University pursuant to this Article 12.

Section 12.3. Agency for Representatives. Each of the University and the Concessionaire agrees that it accepts each payment obligation contemplated in this Article 12 in favor of any of its Representatives as agent and trustee of that Representative and agrees that each of the University and the Concessionaire may enforce a payment obligation in favor of its Representatives on behalf of that Representative. For purposes of this Section 12.3, the term “Representative”, in the case of the Concessionaire, includes the Leasehold Mortgagee.

Section 12.4. Third Party Claims.

- (a) *Notice of Third Party Claim.* If an Obligee receives notice of the commencement or assertion of any Third Party Claim, the Obligee shall give the Obligor reasonably prompt notice thereof, but in any event no later than 30 Days after receipt of such notice of such Third Party Claim. Such notice to the Obligor shall describe the Third Party Claim in reasonable detail (and include a copy of any complaint or related documents) and shall indicate, if reasonably practicable, the estimated amount of the Loss that has been or may be sustained by the Obligee.
- (b) *Defense of Third Party Claim.* The Obligor may participate in or assume the defense of any Third Party Claim by giving notice to that effect to the Obligee not later than 30 Days after receiving notice of that Third Party Claim (the “Notice Period”). The Obligor’s right to do so shall be subject to the rights of

any insurer or other Party who has potential responsibility with respect of that Third Party Claim. The Obligor agrees to pay all of its own expenses of participating in or assuming each defense. The Obligee shall cooperate in good faith in the defense of each Third Party Claim, even if the defense has been assumed by the Obligor and may participate in such defense assisted by counsel of its own choice at its own expense. If the Obligee has not received notice within the Notice Period that the Obligor has elected to assume the defense of such Third Party Claim, the Obligee may assume such defense, assisted by counsel of its own choosing and the Obligor shall be responsible for all reasonable costs and expenses paid or incurred in connection therewith and any Loss suffered or incurred by the Obligee with respect to such Third Party Claim. Notwithstanding the foregoing, to the extent that the Obligor is the Concessionaire or its Representative, the assumption of such defense shall be subject to the approval of the Iowa Attorney General.

- (c) *Assistance for Third Party Claims.* The Obligor and the Obligee will use all reasonable efforts to make available to the Party which is undertaking and controlling the defense of any Third Party Claim (the “Defending Party”), (i) those employees whose assistance, testimony and presence is necessary to assist the Defending Party in evaluating and in defending any Third Party Claim, and (ii) all Documents, records and other materials in the possession of such Party reasonably required by the Defending Party for its use in defending any Third Party Claim, and shall otherwise co-operate with the Defending Party. The Obligor shall be responsible for all reasonable expenses associated with making such Documents, records and materials available and for all expenses of any employees made available by the Obligee to the Obligor hereunder, which expense shall not exceed the actual cost to the Obligee associated with such employees.
- (d) *Settlement of Third Party Claims.* If an Obligor elects to assume the defense of any Third Party Claim in accordance with Section 12.4(b), the Obligor shall not be responsible for any legal expenses subsequently incurred by the Obligee in connection with the defense of such Third Party Claim. However, if the Obligor fails to take reasonable steps necessary to defend diligently such Third Party Claim within 30 Days after receiving notice from the Obligee that the Obligee believes on reasonable grounds that the Obligor has failed to take such steps, the Obligee may, at its option, elect to assume the defense of and to compromise or settle the Third Party Claim assisted by counsel of its own choosing and the Obligor shall be responsible for all reasonable costs and expenses paid or incurred in connection therewith. However, the Obligee shall not settle or compromise any Third Party Claim without obtaining the prior written consent of the Obligor unless such settlement or compromise is made without any responsibility to, and does not require any action on the part of, the Obligor and does not in any way affect the Obligor. In the event that the Obligee is the University, in no event may the Obligor settle or compromise any Third Party Claim without obtaining the prior written consent of the Obligee, which shall

require the consent of the State of Iowa's Attorney General or his or her designee.

Section 12.5. Direct Claims. Any Direct Claim shall be asserted by giving the Obligor reasonably prompt notice thereof, but in any event not later than 60 Days after the Obligee becomes aware of such Direct Claim. The Obligor shall then have a period of 30 Days within which to respond in writing to such Direct Claim. If the Obligor does not so respond within such 30-Day period, the Obligor shall be deemed to have rejected such Direct Claim, and in such event the Obligee may submit such Direct Claim to the dispute resolution process set forth in Article 18.

Section 12.6. Failure to Give Timely Notice. A failure to give timely notice in accordance with this Article 12 shall not affect the rights or obligations of any Party except and only to the extent that, as a result of such failure, a Party which was entitled to receive such notice was deprived of its right to recover any payment under its applicable insurance coverage or was otherwise directly and materially damaged as a result of such failure. However, this Section 12.6 shall have no effect whatsoever on the survival provisions set out in Section 9.4 and the rights of the Parties with respect thereto.

Section 12.7. Reductions and Subrogation. If the amount of any Loss incurred by an Obligee at any time subsequent to the making of a payment hereunder on account of such Losses (an "Obligation Payment") is reduced by any recovery, settlement or otherwise under or pursuant to any insurance coverage, or pursuant to any claim, recovery, settlement or payment by or against any other Person, the amount of such reduction (less any costs, expenses (including Taxes) or premiums incurred in connection therewith), together with interest thereon from the date of such recovery, settlement or reduction at the Bank Rate, shall promptly be repaid by the Obligee to the Obligor. Upon making a full Obligation Payment, the Obligor shall, to the extent of such Obligation Payment, be subrogated to all rights of the Obligee against any third party in respect of the Loss to which the Obligation Payment relates. Until the Obligee recovers full payment of its Loss, any and all claims of the Obligor against any such third party on account of such Obligation Payment shall be postponed and subordinated in right of payment to the Obligee's rights against such third party.

Section 12.8. Payment and Interest. All amounts to be paid by an Obligor hereunder, not including deductibles or self-insured retentions or insurance proceeds, shall bear interest at a rate per annum equal to the Bank Rate, calculated annually and payable monthly, both before and after judgment, from the date that the Obligee disbursed funds, suffered damages or losses or incurred a loss or expense in respect of a Loss for which the Obligor is responsible to make payment pursuant to this Article 12, to the date of payment by the Obligor to the Obligee.

Section 12.9. Limitation on Certain Claims. To the extent permitted by Law and without limiting any other remedy under this Agreement (including Concession Compensation, AA-Compensation or KPI Compensation as provided in this Agreement), the maximum aggregate liability of the University to the Concessionaire or its Representatives, in respect of Losses pursuant to this Article 12 shall not exceed 50% of the Closing Consideration; provided further that this Section 12.9 shall not apply to Claims for (i) breach of the representations or warranties in Sections 9.1(a), (b), (c), (d), (e), (f), (g), and (k); (ii) fraud, intentional

misrepresentation or intentional breach of the representations or warranties in Section 9.1; (iii) for any Excluded Liabilities referred to in Section 3.2(d)(iii)(2); (iv) payment of the Utility System Concession Value; and (v) payment of the Utility Fee. To the extent permitted by Law and without limiting any other remedy under this Agreement, the maximum aggregate liability of the Concessionaire to the University and its Representatives, in respect of Losses pursuant to this Article 12 shall not exceed 50% of the Closing Consideration; provided further that this Section 12.9 shall not apply to Claims for the breach of the representations or warranties in Section 9.2(a), (b), (c), (d), (e), (f), and (i) or Section 12.1(iv) or to Claims for fraud, intentional misrepresentation or intentional breach of the representations or warranties in Section 9.2. Neither Party shall have any liability to the other Party or its Representatives for Losses to the extent resulting from fraudulent actions or gross negligence of the other Party or its Representatives (or University Responsible Parties in the case of the University).

Section 12.10. Other Matters.

- (a) *Waiver of Limits.* With respect to claims by the Concessionaire's employees, the Concessionaire waives its immunity, if any, to which it is entitled or would be entitled, as a complying employer under the applicable worker's compensation law, but only to the extent that such immunity would bar or affect recovery under or enforcement of Concessionaire's obligations to defend, indemnify, hold harmless or contribute to any sums due under any Losses.
- (b) *Losses Net of Insurance.* For purposes of this Article 12, the amount of any Losses for which payment is provided hereunder shall be net of any amounts recovered by the Obligees under insurance policies with respect to such Losses, it being understood that the obligations of the Obligees hereunder shall not be so reduced to the extent that any such recovery results in an increase in the Obligees's insurance premiums, or results in any other additional cost or expense to any such Obligees.

Section 12.11. Offset Rights; Limitations on Certain Damages.

- (a) Each Party's obligations under this Agreement are subject to, and each Party shall have the benefit of, all defenses, counterclaims, rights of offset or recoupment or other claims and rights, including the right to deduct payments due to the other Party hereunder that are not subject to dispute (collectively, "Offsets") which such Party may have at any time against such other Party (or any of their respective successors and assigns) or any transferee or assignee of any such other Party's rights as against such Party or any part thereof or interest therein contingent or otherwise, and no transfer or assignment of this Agreement or any other obligation of such other Party, or of any rights in respect thereof, pursuant to any plan of reorganization or liquidation or otherwise shall affect or impair the availability to each Party of the Offsets.
- (b) In no event shall any Party be liable to the other Party under this Agreement for consequential, indirect, exemplary or punitive damages (except for claims for fraud or for intentional misrepresentation or intentional breach).

Section 12.12. Governmental Immunity. Notwithstanding anything herein to the contrary, the Parties acknowledge and agree that the University and its officers, employees, and agents are relying on, and do not waive or intend to waive by any provision of this Agreement, the monetary limitations or any other rights, immunities, and protections provided by the Iowa Code Ann. § 669.1 *et seq.*, or otherwise available to the University and its officers, employees, and agents.

Section 12.13. Survival. This Article 12 shall remain in full force and effect in all circumstances and shall not be terminated by any breach (fundamental, negligent or otherwise) by any Party of its representations, warranties or covenants hereunder or by any termination or rescission of this Agreement by any Party.

ARTICLE 13 INSURANCE

Section 13.1. Insurance Coverage Required – Concessionaire. The Concessionaire shall provide and maintain at the Concessionaire's own expense, or cause to be maintained, during the Term and during any time period following expiration if the Concessionaire is required to return and perform any additional work, commercially reasonable insurance coverage in accordance with Prudent Industry Practices, including, at a minimum, the insurance coverages and requirements specified below, insuring the Utility System and all Utility System Operations (the "Concessionaire Required Coverages").

- (a) *Workers' Compensation and Employer's Liability.* The Concessionaire shall provide or cause to be provided Workers' Compensation Insurance, to cover liability imposed by Federal and State statutes having jurisdiction over the Concessionaire's employees engaged in the performance of this Agreement and Employer's Liability Insurance coverage with limits of not less than \$1,000,000 each employee and \$1,000,000 for each accident. The policy shall be endorsed with the Voluntary Compensation and the Alternate Employer endorsements. The policy shall also include Federal Employers Liability Act (FELA), Longshore and Harbor Worker's Compensation Act (USL&H) and Jones Act coverage, in each case to the extent applicable to the Utility System, the Concessionaire or the transactions contemplated under this Agreement.
- (b) *Commercial General Liability.* The Concessionaire shall provide or cause to be provided Commercial General Liability Insurance or equivalent with limits of not less than \$1,000,000 per occurrence and \$2,000,000 in the annual aggregate. Coverage shall include the following: bodily injury and property damage including personal injury, coverage for contractual employees (excluding any employees of the University), all premises and operations, including blanket contractual and products/completed operations, explosion, collapse, mobile equipment not suitable for roadways, underground, separation of insureds, defense of terrorism (to the extent commercially available) and liability assumed under an insured contract and shall be written on ISO form CG 00 01 04 13 or its equivalent. Terrorism may be insured through a standalone, terrorism specific policy.

- (c) *Commercial Automobile Liability.* When any motor vehicles (owned, non-owned or hired) are used in connection with work to be performed, the Concessionaire shall provide or cause to be provided Commercial Automobile Liability Insurance with limits of not less than \$10,000,000 combined single limit each accident for bodily injury and property damage. The policy shall be endorsed with CA 99 48 and MCS 90, where required by applicable Law.
- (d) *Umbrella Liability.* The Concessionaire shall provide or cause to be provided follow form Umbrella Liability Insurance with a minimum limit of \$50,000,000 (\$25,000,000 for terrorism) per occurrence and shall apply to all underlying and primary liability coverages required above.
- (e) *Professional Liability.* When any architects, engineers, construction managers, professional services providers or any other professional consultants perform work in connection with this Agreement, the Concessionaire shall require such architects, engineers, construction managers or other professional consultants to maintain Professional Liability Insurance, with limits not less than \$15,000,000 per claim and in the aggregate or such other limit (whether lower or higher) as the University and the Concessionaire may agree (each, acting reasonably) with respect to such policy for a particular Capital Improvement or Material Change, which other limit shall be included as part of the Approval of such Capital Improvement or Material Change in accordance with Section 4.3. The policy shall include: contingent bodily injury liability, rectification and punitive damages. The faulty workmanship exclusion should be modified to cover losses arising out of professional services. Should the Concessionaire self-perform any work of the nature noted in this Section 13.1(e), evidence of Professional Liability Insurance meeting the standards for such work set forth above shall be required.
- (f) *Network Security and Privacy Insurance.* The Concessionaire shall also maintain Cyber Liability Insurance for network security and privacy with limits of not less than \$5,000,000 per claim and in the aggregate inclusive of event management. When policies are renewed or replaced, the policy retroactive date shall coincide with, or precede, start of work in connection with this Agreement.
- (g) *Railroad Protective Liability.* When any work is to be done adjacent to or on railroad or transit property and if such insurance is required, the Concessionaire shall provide, with respect to the operations that the Concessionaire or Contractors perform, Railroad Protective Liability Insurance in the name of the applicable railroad or transit entity. The policy shall have limits of not less than the requirement of the operating railroad for losses arising out of injuries to or death of all persons, and for damage to or destruction of property, including the loss of use thereof. If such work is subcontracted out to Contractors, then the Concessionaire shall not be required to maintain such insurance but may instead require its Contractors performing the work adjacent to or on railroad or transit property to carry such railroad liability insurance.

- (h) *Pollution Legal Liability.* The Concessionaire shall provide Pollution Legal Liability Insurance or Site Pollution Insurance or cause to be provided Pollution Legal Liability Insurance or Site Pollution Insurance or equivalent, in each case with limits of not less than \$10,000,000 per claim and \$15,000,000 in the aggregate over 3 years for environmental and pollution damage liability arising out of pollution events occurring after the Closing Date.
- (i) *Builder's Risk.* When the Concessionaire undertakes, pursuant to this Agreement, any construction, maintenance or repairs to the Utility System (including Capital Improvements, Material Changes and betterments), the Concessionaire shall provide or cause to be provided, All Builder's Risk Insurance at replacement cost for materials, supplies, equipment, machinery and fixtures that are or will be part of the Utility System. Coverage shall include, but not be limited to, the following: right to partial occupancy, boiler and machinery, business income, valuable papers and other consequential loss, when applicable with aggregate sublimits for catastrophic perils of earthquake, flood and named wind which are the best available on commercially reasonable terms. The Concessionaire and any Leasehold Mortgagee may be named as additional insured and as loss payees.

Section 13.2. Insurance Coverage Required – University. The University shall provide and maintain at the University's own expense, or cause to be maintained, during the Term and during any time period following expiration if the Concessionaire is required to return and perform any additional work, the following insurance coverages and requirements specified below (the "University Required Coverages" together with the Concessionaire Required Coverages, the "Required Coverages").

- (a) *Workers' Compensation and Employer's Liability.* As a Board of Regents institution, the University is a unit of the State of Iowa (State), and as such employees of the University are considered State employees and are covered for workers compensation pursuant to the Iowa Code, Chapters 85 and 19A.32.
- (b) *Commercial General Liability (Primary and Umbrella).* As a Board of Regents institution, the University is an agency of the State of Iowa (State), and as such is covered by the State's self-insurance for tort liability, which includes motor vehicle liability. Tort claims against the State are handled as provided in the Iowa Tort Claims Act (Iowa Code, Chapter 669) which also sets forth the procedures by which tort claims may be brought.
- (c) *Property.* The University shall obtain All Risk Property Insurance, covering loss, damage or destruction to the University's owned property (including the Utility System and all other property leased by the University to the Concessionaire hereunder), including improvements and betterments, which insurance may be provided on a blanket basis with reported building values, which shall include the value of the coverage for the University's owned property required hereunder; provided, however, that the limits of such

coverage may be based on the valuation clause in the University's insurance policy(ies). Coverage shall include flood insurance. The Concessionaire shall be responsible for property deductible for any loss or damage to University property that is part of the Utility System, and the Concessionaire may not include the cost therefor in any component of the Utility Fee except as expressly set forth in sub-section (p) of the definition of "Uncapped O&M Costs". The University shall name the Concessionaire, the Operator and the Leasehold Mortgagee as additional insureds under such All Risk Property Insurance with respect to the Utility System. The Concessionaire shall be responsible for all loss or damage to personal property (including materials, fixtures/contents, equipment, tools and supplies) of the Concessionaire unless caused by the negligence of the University.

Section 13.3. Additional Requirements.

- (a) *Evidence of Insurance.* The Parties shall deliver or cause to be delivered to each other's Representative designated in writing by each Party, original standard ACCORD form Certificates of Insurance, or equivalent documentation acceptable to the Parties, evidencing the Concessionaire Required Coverages or University Required Coverages, as applicable, on or before the Closing Date, and shall provide or cause to be provided, promptly following renewal and not more than 14 Business Days following renewal of the then current coverages (or such other period as is agreed to by the Parties), Renewal Certificates of Insurance, or such similar evidence, if such coverages have an expiration or renewal date occurring during the Term. The receipt of any certificate does not constitute agreement by the receiving party that the insurance requirements in this Agreement have been fully met or that the insurance policies indicated on the certificate are in compliance with all requirements of this Agreement. The failure of either Party to obtain certificates or other insurance evidence from the other Party shall not be deemed to be a waiver by such Party. Non-conforming insurance shall not relieve either Party of the obligation to provide insurance as specified herein.
- (b) *Notice of Cancellation or Violation.* The University shall notify the Concessionaire in writing 30 Days (or in the case of cancellation for non-payment of premiums, 10 Days) prior to cancellation of the University's All Risk Property Insurance described in Section 13.2(c). The Concessionaire shall notify the University in writing 30 Days (or in the case of cancellation for non-payment of premiums, 10 Days) prior to cancellation of any Concessionaire Required Coverages. The University shall be permitted (but not obligated) to pay any delinquent premiums before the cancellation date specified by the insurer in any notice of cancellation for non-payment of premium in order to maintain such coverage in full force and effect and the Concessionaire shall reimburse the University for any delinquent premiums paid by the University on demand without any Days of grace and without prejudice to any other rights and remedies of the Parties hereunder.

- (c) *Deductibles.* All deductibles or self-insured retentions for Concessionaire Required Coverages or Concessionaire Contractors shall not exceed amounts approved by the University in writing. Any and all deductibles or self-insured retentions on Required Coverages, except for the University's property and flood insurance deductibles, shall be borne by the purchasing Party or its Contractors, who shall be responsible for its own deductibles and/or self-insured retentions unless the Party is at fault for a loss to the other Party in which case the at fault party will pay the other Party's deductible or self-retention.
- (d) *Post-Termination Effectiveness.* The products/completed operations portion of the Concessionaire's Commercial General Liability Insurance shall be continued for at least 5 years following the termination of this Agreement and evidence of such insurance shall be provided to the University at least annually.
- (e) *Adjustment of Insurance Coverages.* The amounts of coverage required by Section 13.1 and Section 13.2 shall be reasonably adjusted, as agreed by the University and the Concessionaire, based on limits maintained for comparable property each succeeding fifth anniversary of the Closing Date, but in no event shall the amounts of coverage be less than specified in Section 13.1 and Section 13.2.
- (f) *Waiver of Subrogation.* Each of the Required Coverages provided by either Party shall, where legally or customarily permitted, include a waiver by the insurer of its rights of subrogation against the other, its employees, elected officials, agents or Representatives (and, in the case of the Concessionaire Required Coverages, against the State of Iowa; University of Iowa; Board of Regents, State of Iowa, their agents, officials, and employees). Concessionaire shall cause each of its Contractors to waive all their rights of subrogation against the State of Iowa; University of Iowa; Board of Regents, State of Iowa, their agents, officials, and employees.
- (g) *University's Right to Insure.* If the Concessionaire fails to obtain and maintain or cause to be obtained and maintained the Concessionaire Required Coverage in accordance with this Article 13, the University shall have the right (without any obligation to do so), upon 2 Business Days' notice to the Concessionaire in a non-emergency situation or forthwith in an emergency situation and without assuming any obligation in connection therewith, to effect such insurance and all costs and expenses in connection therewith shall be payable by the Concessionaire on demand without any Days of grace and without prejudice to any other rights and remedies of the University hereunder. Such insurance taken out by the University shall not relieve the Concessionaire of its obligations to insure hereunder and the University shall not be liable for any loss or damage suffered by the Concessionaire in connection therewith.
- (h) *No Limitation as to Concessionaire Liabilities.* The Concessionaire expressly understands and agrees that any coverages and limits furnished by the

Concessionaire shall in no way limit the Concessionaire's liabilities and responsibilities specified within this Agreement or by Law.

- (i) *No Contribution by University.* The Concessionaire expressly understands and agrees that any insurance or self-insurance programs maintained by the State of Iowa; the University; or the Board of Regents, State of Iowa shall not contribute with insurance provided by the Concessionaire under this Agreement.
- (j) *Insurance Requirements of Contractors.* The Concessionaire shall require in each contract with any Contractor that such Contractor obtain coverages reasonably comparable to the Concessionaire Required Coverages that are reasonably appropriate in their limits and other terms and conditions to the nature of the contract with the Contractor. Such coverages shall insure the interests of the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials, and employees (provided that such agents, officials or employees shall not be included if not permitted by applicable Law or commercially available), the Concessionaire and any other Contractors in respect of the applicable work being performed and shall be subject to the same (or comparable) coverage and administrative requirements as are imposed on the Concessionaire pursuant to this Agreement, specifically requiring such Contractor to name the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials and employees as additional insured and requiring such Contractor's insurance to include a waiver of subrogation as described in Section 13.3(f). When requested to do so by the University, the Concessionaire shall provide, or cause to be provided, to the University Certificates of Insurance with respect to such insurance coverages or such other evidence of insurance, as may be reasonably acceptable in form and content to the University.
- (k) *Cooperation.* The University and the Concessionaire shall do all acts, matters and things as may be reasonably necessary or required to expedite the adjustment of any loss or damage covered by insurance hereunder so as to expedite the release and dedication of proceeds of such insurance in the manner and for the purposes herein contemplated.
- (l) *Joint Venture and Limited Liability Company Policies.* If the Concessionaire or any Contractor required to obtain an insurance policy hereunder is a joint venture or limited liability company, all insurance policies required to be obtained by the Concessionaire or such Contractor shall specifically name the joint venture or limited liability company as a named insured. If the Concessionaire contracts operations to a third party, the Concessionaire will be an additional named insured on any liability policy.
- (m) *Other Insurance Obtained by Concessionaire.* If the Concessionaire or its Contractors desire coverages in addition to the Concessionaire Required Coverages, the Concessionaire and each Contractor shall be responsible for the acquisition and cost of such additional coverages. If the Concessionaire or its Contractors obtain any property, liability or other insurance coverages that will

relate to the Utility System or the Utility System Operations in addition to the Concessionaire Required Coverages (“Additional Coverages”), then the Concessionaire or its Contractors shall (i) notify the University as to such Additional Coverages at least 10 Business Days in advance of purchasing such Additional Coverages and make such modifications as the University may reasonably require so that such Additional Coverage does not conflict with the University’s insurance coverages, (ii) provide the University with any documentation relating to the Additional Coverages, including Certificates of Insurance, that the University reasonably requests and (iii) at the University’s election, acting reasonably, cause the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials and employees, to be named as additional insureds under such Additional Coverages, if that is normally allowed in accordance with good industry practice.

- (n) *University’s Right to Modify.* The University shall have the right, acting reasonably, to request to modify, delete, alter or change insurance coverage requirements set forth in Section 13.1 and this Section 13.2. Notwithstanding anything to the contrary herein, (i) any change to the types or limits of contractually required insurance coverage shall be subject to mutual agreement of the Parties, each acting reasonably, and (ii) if any insurance (including the limits or deductibles thereof) required to be maintained under this Agreement shall not be available at commercially reasonable rates, the Concessionaire’s obligation to obtain or maintain such insurance shall be waived by the University for as long as such insurance shall not be available at commercially reasonable rates, provided that during the period of such waiver, the Concessionaire maintains the maximum amount of such insurance otherwise available at commercially reasonable rates.
- (o) *Commercial Availability.* To the extent any of the Required Coverages are not available on a commercially reasonable basis or on commercially reasonable terms, the Party responsible for obtaining such Required Coverage shall obtain insurance that is available on a commercially reasonable basis or on commercially reasonable terms that best approximates the applicable Required Coverages, but said substitute coverage shall, at the other Party’s request, be subject to review of an independent insurance consultant, and such independent insurance consultant shall have delivered to the University and the Concessionaire its opinion to the effect that the substitute coverages meet the above-stated criteria.
- (p) *Endorsements.* All Concessionaire Required Coverages shall be endorsed to include the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials, and employees as additional insureds except the Professional Liability Insurance policies shall include the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials, and employees as indemnified parties, in each case to the extent permitted by Law and commercially available.

- (q) *Concessionaire Required Coverage Requirements.* All Concessionaire Required Coverages and the University's All Risk Property Insurance described in Section 13.2(c) shall be issued by reputable insurance companies duly authorized to engage in the insurance business in the State of Iowa, with an A.M. Best's rating of A-, VII or better; be primary noncontributory coverage, contain severability of interests provisions, and be governed by Iowa law.
- (r) *Defense of Coverage Outside Limits of Liability.* All Concessionaire Required Coverages shall include defense coverage outside the limits of liability, except for the Professional Liability Insurance required to be carried by the Concessionaire.
- (s) *Requirements for Concessionaire Required Coverages for Liability Policies.* All Concessionaire Required Coverages that are liability policies shall be occurrence-based, except where not commercially available, in which case they shall be on a claims-made basis, provided that such policies shall extend for a period of 10 years after the expiration or earlier termination of this Agreement, which obligation shall survive the expiration or earlier termination of this Agreement.

Section 13.4. Damage and Destruction.

- (a) *Obligations of Concessionaire.* If all or any part of any of the Utility System shall be destroyed or damaged during the Term in whole or in part by fire or other casualty of any kind or nature (including any casualty for which insurance was not obtained or obtainable), ordinary or extraordinary, foreseen or unforeseen, the Concessionaire shall:
 - (i) give the University notice thereof promptly after the Concessionaire receives actual notice of such casualty;
 - (ii) at its sole cost and expense, which for the avoidance of doubt, may not be included in the Utility Fee or any component thereof, subject to the University's obligations under Section 13.4(b), whether or not insurance proceeds, if any, shall be equal to the estimated cost of repairs, alterations, restorations, replacement and rebuilding (the "Casualty Cost"), which for the avoidance of doubt shall not be included in the Utility Fee, proceed diligently to repair, restore or rebuild the same to the condition existing prior to the happening of such fire or other casualty or with such modifications, including as to location or configuration, as directed by the University provided such modifications shall not materially and adversely affect the Concessionaire's ability to perform the Utility System Operations once completed and such cost shall be included in the Casualty Costs (any such activity being a "Restoration"); and
 - (iii) deposit all insurance proceeds received by the Concessionaire in connection with any Restoration with the Depositary selected by the

University pursuant to Section 13.4(b); provided, however, that if at any time the Casualty Cost exceeds the net insurance proceeds actually deposited with the Depositary, then the Concessionaire shall also deposit with the Depositary such cash as is sufficient to cover the difference between the Casualty Cost and the net insurance proceeds deposited pursuant to this Section 13.4(a)(iii) and Section 13.4(b) (the “Restoration Shortfall Amount”), except to the extent such difference is caused by the negligence or willful misconduct of the University or is the result of any modifications made by the University pursuant to Section 13.4(a)(ii) in which case the University shall be responsible to make such deposit (collectively, with any interest earned thereon, the “Restoration Funds”).

Any Restoration undertaken pursuant to this Section 13.4 shall be undertaken in accordance with and subject to the terms of this Agreement. Prior to the commencement of Restoration work, the Concessionaire shall submit to the University for Approval by the University the plans for the Restoration work and such work shall not be undertaken unless the plans for such work have been Approved by the University in writing. For the avoidance of doubt, and notwithstanding any direction by the University to modify the location or configuration of the Utility System pursuant to Section 13.4(a)(ii), the Restoration Shortfall Amount shall not be considered a New Approved Capital Improvement Cost.

- (b) *Rights and Obligations of University.* Promptly following receipt of notice pursuant to Section 13.4(a)(i), the University shall make such claims under its University Required Coverages with respect to the Utility System that it reasonably believes are appropriate and shall deposit all insurance proceeds received by the University with respect thereto with a Depositary selected by the University in its reasonable discretion. If (i) the Concessionaire shall fail or neglect to commence the diligent Restoration of the Utility System or the portion thereof so damaged or destroyed, (ii) having so commenced such Restoration, the Concessionaire shall fail to diligently complete the same in accordance with the terms of this Agreement or (iii) prior to the completion of any such Restoration by the Concessionaire, this Agreement shall expire or be terminated in accordance with the terms of this Agreement, the University may, but shall not be required to, complete such Restoration at the Concessionaire’s expense and shall be entitled to be paid out of the Restoration Funds, but such payment shall not limit the Concessionaire’s obligation to pay the University’s reasonable Restoration expenses, less amounts received by the University from such Restoration Funds. In any case where this Agreement shall expire or be terminated prior to the completion of the Restoration, the Concessionaire shall (x) account to the University for all amounts spent in connection with any Restoration which was undertaken, (y) pay over or cause the Depositary to pay over to the University within 30 Days after demand therefor, the remainder, if any, of the Restoration Funds received by the Concessionaire prior to such termination or cancellation and (z) pay over or cause the Depositary to pay over to the University, within 30 Days after receipt thereof, any Restoration Funds

received by the Concessionaire or the Depositary subsequent to such termination or cancellation. The Concessionaire's obligations under this Section 13.4(b) shall survive the expiration or termination of this Agreement.

- (c) *Payment of Restoration Funds to Concessionaire.* Subject to the satisfaction by the Concessionaire of all of the terms and conditions of this Section 13.4, the Depositary shall pay to the Concessionaire from time to time, any Restoration Funds, but not more than the amount actually collected by the Depositary upon the loss, together with any interest earned thereon, after reimbursing itself therefrom, as well as the University, to the extent, if any, of the reasonable expenses paid or incurred by the Depositary and the University in the collection of such monies, to be utilized by the Concessionaire solely for the Restoration, such payments to be made as follows:
- (i) prior to commencing any Restoration, the Concessionaire shall furnish the University with an estimate of the cost of such Restoration, prepared by an architect or engineer;
 - (ii) the Restoration Funds shall be paid to the Concessionaire in installments as the Restoration progresses, subject to Section 13.4(c)(iii), based upon requisitions to be submitted by the Concessionaire to the Depositary and the University in compliance with Section 13.4(d), showing the cost of labor and materials purchased for incorporation in the Restoration, or incorporated therein since the previous requisition, and due and payable or paid by the Concessionaire; provided, however, that if any lien (other than a Permitted Concessionaire Encumbrance) is filed against the Utility System or any part thereof in connection with the Restoration, the Concessionaire shall not be entitled to receive any further installment until such lien is satisfied or discharged (by bonding or otherwise); provided further that notwithstanding the foregoing, but subject to the provisions of Section 13.4(c)(iii), the existence of any such lien shall not preclude the Concessionaire from receiving any installment of Restoration Funds so long as such lien will be discharged with funds from such installment and at the time the Concessionaire receives such installment the Concessionaire delivers to the University and the Depositary a release of such lien executed by the lien or and in recordable form;
 - (iii) the amount of any installment to be paid to the Concessionaire shall be the amount of Restoration Funds incurred by the Concessionaire in connection therewith, less 10% of such amount as a retainage (which 10% retainage shall (i) be reserved without duplication of any retainage reserved by the Concessionaire under its contracts for the Restoration work and (ii) shall be released to the Concessionaire upon completion of the Restoration work), except that such retainage shall not include any amounts for architects' or engineers' fees or permitting or other governmental fees in connection with the Restoration or with respect to each Contractor upon the final completion of each such Contractor's respective work, provided

that the unapplied portion of the funds held by the Depositary are sufficient to complete the Restoration; provided, however, that all disbursements to the Concessionaire shall be made based upon an architect's or engineer's certificate for payment in accordance with industry standards, and disbursements may be made for advance deposits for material and Contractors to the extent that such disbursements are customary in the industry and provided that the unapplied portion of the funds held by the Depositary are sufficient to complete the Restoration; and

- (iv) except as provided in Section 13.4(b), upon completion of and payment for the Restoration by the Concessionaire, the Depositary shall pay the balance of the Restoration Funds, if any, to the Concessionaire; provided, however, that if the insurance proceeds are insufficient to pay for the Restoration (or if there shall be no insurance proceeds), the Concessionaire shall nevertheless be required to make the Restoration, provided the deficiency in funds necessary to complete the Restoration is provided in accordance with Section 13.4(a)(iii).

For the avoidance of doubt, the costs incurred for Capital Improvements made as part of the Restoration shall not be considered Capital Improvement Costs for purposes of Schedule 5 or otherwise included in the calculation of the Utility Fee.

- (d) *Conditions of Payment.* The following shall be conditions precedent to each payment made to the Concessionaire as provided in Section 13.4(c):
 - (i) at the time of making such payment, no Concessionaire Default exists, except if such Concessionaire Default is the result of the damage or destruction for which such payment is being made;
 - (ii) the Restoration shall be carried out under the supervision of the architect or engineer, and there shall be submitted to the Depositary and the University the certificate of the architect or engineer (or other evidence reasonably satisfactory to the University) stating that (A) the materials and other items which are the subject of the requisition have been delivered to the Utility System (except with respect to requisitions for advance deposits permitted under Section 13.4(c)(iii)), free and clear of all Encumbrances, and no unsatisfied or unbonded mechanic's liens or other Encumbrances have been claimed, except for any mechanic's lien for claims that will be discharged, by bonding or otherwise, with funds to be received pursuant to such requisition (provided that a release of such lien is delivered to the Depositary in accordance with Section 13.4(c)(ii)), or insured over by title insurance reasonably acceptable to the University, (B) the sum then requested to be withdrawn either has been paid by the Concessionaire or is due and payable to Contractors, engineers, architects or other Persons (whose names and addresses shall be stated), who have rendered or

furnished services or materials for the work and giving a brief description of such services and materials and the principal subdivisions or categories thereof and the several amounts so paid or due to each of such Persons in respect thereof, and stating in reasonable detail the progress of the work up to the date of such certificate, (C) no part of such expenditures has been made the basis, in any previous requisition (whether paid or pending), for the withdrawal of Restoration Funds or has been made out of the Restoration Funds received by the Concessionaire, (D) the sum then requested does not exceed the value of the services and materials described in the certificate, (E) the work relating to such requisition has been performed in accordance with this Agreement, (F) the balance of the Restoration Funds held by the Depositary will be sufficient upon completion of the Restoration to pay for the same in full, and stating in reasonable detail an estimate of the cost of such completion and (G) in the case of the final payment to the Concessionaire, the Restoration has been completed in accordance with this Agreement.

- (e) *Payment and Performance Bonds.* If the Concessionaire obtains payment or performance bonds related to a Restoration (which the Concessionaire may or may not obtain in its discretion), the Concessionaire shall name the State of Iowa; the University; Board of Regents, State of Iowa, their agents, officials, and employees, the Concessionaire and the Leasehold Mortgagee, as their interests may appear as additional obligees, and shall deliver copies of any such bonds to the University promptly upon obtaining them. The claims of any such additional obligee with respect to such payment of performance bonds shall rank *pari passu* in priority with the claims of all other additional obligees.
- (f) *Benefit of University.* The requirements of this Section 13.4 are for the benefit only of the University, and no Contractor or other Person shall have or acquire any claim against the University as a result of any failure of the University actually to undertake or complete any Restoration as provided in this Section 13.4 or to obtain the evidence, certifications and other documentation provided for herein.
- (g) *Investment of Restoration Funds.* Restoration Funds deposited with a Depositary shall be invested and reinvested in Eligible Investments at the direction of the Concessionaire, and all interest earned on such investments shall be added to the Restoration Funds.
- (h) *Lien of Leasehold Mortgage.* Any Restoration Funds not used for the Restoration shall be subject to the lien of the applicable Leasehold Mortgage, but only after such Restoration is complete.

Section 13.5. Additional University Requirements.

- (a) The Concessionaire shall submit, at the Concessionaire's cost and expense, all design documents for proposed Capital Improvements to the Utility System to

the standard University design and construction review process, including, but not limited to submitting documents to the University of Iowa Facilities Management Department of Design and Construction and the University's property insurance carrier for a plan review.

- (b) The Concessionaire shall cooperate and participate, at the Concessionaire's cost and expense, in any and all Utility System Land visits or site inspections by or for any University insurance carrier.
- (c) The Concessionaire shall comply with and participate in, at the Concessionaire's cost and expense and as directed by the University, the University of Iowa Flood Emergency Response Plan as it relates to the Utility System while coordinating these Utility components with other actions as outlined in the plan. This shall include, but is not limited to, emergency repair or mitigation actions, coordination, preventative actions, semi-annual training and regular testing activities.

ARTICLE 14 ADVERSE ACTIONS

Section 14.1. Adverse Action.

- (a) An "Adverse Action" shall occur if the City of Iowa City, Iowa, the County of Johnson, Iowa, the State of Iowa, or any agency, political division or unit or commission thereof, or the University, at any time during the Term, takes any action or actions and the effect of such action or actions, individually or in the aggregate, is reasonably expected (i) to be principally borne by the Concessionaire or by private sector utility concessionaires at universities and other public institutions in Iowa, including the Concessionaire, (and not by others) and (ii) to have a material adverse effect on the fair market value of the Concessionaire Interest (whether as a result of a decrease in the Utility Fee or other revenues, increased expenses that cannot be recovered pursuant to this Agreement, or both), except where such action is in response to any act or omission on the part of the Concessionaire that is illegal (other than an act or omission rendered illegal by virtue of the Adverse Action) or such action is otherwise permitted under this Agreement; provided, however, that none of the following shall be an Adverse Action: (A) the development, redevelopment, construction, modification or change in the operation of any existing or new utility facility (other than any Utility Facility) or utility (including a new source of energy or power) (other than the Utilities) whether or not it results in the reduction of the Variable Fee Component over time, (B) the imposition of a state or local Tax of general application or federal Tax or an increase in state or local Taxes of general application or federal Taxes and (C) any action of the Iowa Utilities Board or the Federal Energy Regulatory Commission, or their respective successors, that subjects the Concessionaire to such agency's regulatory jurisdiction due solely to the Utility System Operations performed in accordance with this Agreement.

- (b) If an Adverse Action occurs, the Concessionaire may elect, subject to Section 14.2 and Section 14.3, to either (i) be paid by the University the Concession Compensation with respect thereto (such Concession Compensation, the “AA-Compensation”) or (ii) terminate this Agreement and be paid by the University the Termination Damages, in either case by giving notice in the manner described in Section 14.1(c).
- (c) If an Adverse Action occurs, the Concessionaire shall give written notice (the “AA-Preliminary Notice”) to the University within 30 Days following the date on which the Concessionaire first became aware of the Adverse Action stating that an Adverse Action has occurred. Within 180 Days following the date of delivery of the AA-Preliminary Notice, the Concessionaire shall give the University another notice (the “AA-Notice”) setting forth (i) the details of the effect of the occurrence that is principally borne by the Concessionaire, (ii) details of the material adverse effect of the said occurrence on the fair market value of the Concessionaire Interest, (iii) a statement as to which right in Section 14.1(b) the Concessionaire elects to exercise, and (iv) if the Concessionaire elects to exercise the right to AA-Compensation under Section 14.1(b), the amount claimed as AA-Compensation and details of the calculation thereof. The University shall, after receipt of the AA-Notice, be entitled by notice delivered to the Concessionaire no later than 30 Days following the date of receipt of the AA-Notice, to require the Concessionaire to provide such further supporting particulars as the University may reasonably consider necessary. If the University wishes to dispute the occurrence of an Adverse Action or the amount of AA-Compensation, if any, claimed in the AA-Notice, the University shall give written notice of dispute (the “AA-Dispute Notice”) to the Concessionaire within 30 Days following the date of receipt of the AA-Notice stating in reasonable detail the grounds for such dispute. If neither the AA-Notice nor the AA-Dispute Notice has been withdrawn within 30 Days following the date of receipt of the AA-Dispute Notice by the Concessionaire, the matter shall be submitted to the dispute resolution procedure in Article 18.
- (d) If the Concessionaire has elected to exercise its right to AA-Compensation pursuant to Section 14.1(b), the University shall pay such AA-Compensation as Concession Compensation in accordance with Article 15.
- (e) Payment of the entire sum of the Termination Damages or the AA-Compensation, as the case may be, by the University to the Concessionaire, shall constitute full and final satisfaction of all amounts that may be claimed by the Concessionaire for and in respect of the occurrence of an Adverse Action, as the case may be, and, upon such payment, the University shall be released and forever discharged by the Concessionaire from any and all liability in respect of such Adverse Action, except if the Concessionaire elects to be paid AA-Compensation and the effect of the applicable Adverse Action continues to be borne after the Compensation Calculation Measuring Period in which it took place, in which case, the Concessionaire may make a claim for AA-Compensation in subsequent Compensation Calculation Measuring Periods to

the extent the Concessionaire is affected by such Adverse Action in such Compensation Calculation Measuring Period, but the Concessionaire may not change its election to receive AA-Compensation with respect to such Adverse Action.

Section 14.2. Termination.

- (a) If the Concessionaire has elected to exercise its right to terminate this Agreement in connection with an Adverse Action pursuant to Section 14.1(b), then this Agreement, subject to Section 14.3, shall terminate 60 Days following the date of receipt of the AA-Notice by the University, and the University shall pay an amount equal to the aggregate of (i) the Utility System Concession Value as of the date of such termination (which shall be determined as if no Adverse Action has occurred), *plus* (ii) without duplication, the out-of-pocket and documented costs and expenses incurred by the Concessionaire (which costs and expenses shall include reasonable payments due and payable by the Concessionaire to the Operator or other Contractors pursuant to an Operating Agreement or similar agreement) or the Operator as a result of such termination, *plus* (iii) the Concession Compensation calculated for the period between the date of the Adverse Action and the date of termination *less* (iv) any insurance or condemnation proceeds received by the Concessionaire in respect of all or any portion of the Utility System as a result of such Adverse Action (collectively, the “Termination Damages”), together with any Taxes payable by the Concessionaire on the gross amount of such Termination Damages, to the Concessionaire on the Reversion Date or, if the Termination Damages are determined on a date subsequent to the Reversion Date, then not later than 60 Days following the date of determination of the Termination Damages; provided that, subject to the right of the Concessionaire to receive interest at the Bank Rate on the payment owed by the University from the date of receipt of the AA-Dispute Notice to the date on which payment is made, the University may defer any such payment for an additional 120 Days in the University’s discretion; provided, however, that any amounts received by the Concessionaire or any Leasehold Mortgagee from any insurance policies payable as a result of damage or destruction to the Utility System that has not been remedied prior to the Reversion Date, shall, to the extent not used to remedy such effects, be deducted from the amount payable by the University to the Concessionaire, so long as the University has not received any such amounts pursuant to Section 13.4.
- (b) Any dispute arising out of the determination of the Termination Damages shall be submitted to the dispute resolution procedure in Article 18.
- (c) This Agreement shall not terminate pursuant to Section 14.2(a) unless the Concessionaire has first obtained and delivered to the University the written consent of the Leasehold Mortgagee to such termination.

Section 14.3. Right of the University to Remedy. If the University wishes to remedy the occurrence of an Adverse Action (other than an Adverse Action by the University that

constitutes a breach of this Agreement, to which this Section 14.3 shall have no application without the written consent of the Concessionaire), including by reimbursing the Concessionaire such funds as are necessary to compensate the Concessionaire for the material adverse economic effect on the Concessionaire of such Adverse Action, the University shall give written notice thereof to the Concessionaire within 30 Days following the date of receipt of the AA-Notice. If the University gives such notice it must remedy the applicable Adverse Action within 120 Days following the date of receipt of the AA-Notice or, if a AA-Dispute Notice has been given, within 120 Days following the final determination pursuant to Article 18 that an Adverse Action occurred; provided, however, that in the event of a remedy involving payment of funds to the Concessionaire, the University shall be deemed to have remedied the applicable Adverse Action as of the date that the University provides a written commitment to the Concessionaire to pay such funds from time to time as are necessary to compensate the Concessionaire as it is financially adversely affected by the applicable Adverse Action from time to time. If the University elects to remedy the occurrence of an Adverse Action within the applicable period of time, the right of the Concessionaire shall be limited to a claim for AA-Compensation with respect to such Adverse Action.

Section 14.4. Other Actions by Governmental Authorities. In the event that any Governmental Authority proposes to take any action at any time during the Term (including enacting any Law) and the effect of such action is reasonably expected (i) to be principally borne by the Concessionaire or by private sector utility concessionaires at universities and other public institutions in Iowa, including the Concessionaire (and not by others) and (ii) to have a Material Adverse Effect, except where such action is in response to any act or omission on the part of the Concessionaire that is illegal (other than an act or omission rendered illegal by virtue of an Adverse Action or such action by any such Governmental Authority), then at the request of the Concessionaire, the University shall use its reasonable efforts to oppose and challenge such action by any such Governmental Authority; provided, however, that all reasonable out-of-pocket costs and expenses incurred by the University in connection with such opposition or challenge shall be borne by the Concessionaire.

Section 14.5. Regulatory Filings. The Parties acknowledge and agree that they share a common interest in any regulatory proceedings that involve the Utility System Operations. Consistent therewith, the Parties agree that, to the extent that the Concessionaire or the University is required to make any regulatory filing or submission with respect to a tariff or rate for the Utility System or the Utility Fee, the Concessionaire and the University shall reasonably cooperate in connection with such required filing or submission and shall, collectively, only make one filing or submission with the applicable regulatory agency. Such cooperation shall include appearing at, and participating in, any regulatory proceeding at the request of the other Party. The Concessionaire and the University shall also reasonably cooperate with respect to any required regulatory filings or submissions not involving a tariff or rate for the Utility System or the Utility Fee, to the extent practicable.

ARTICLE 15
DELAY EVENTS; CONCESSION COMPENSATION AND KPI COMPENSATION

Section 15.1. Delay Events.

- (a) If the Concessionaire is affected by a Delay Event, it shall give written notice as soon as practicable but in no event later than 10 Business Days following the date on which it first became aware of the effect of such Delay Event on the Concessionaire (provided that in the case of such Delay Event being a continuing cause of delay, only one notice shall be necessary), which notice shall include (i) a statement of which Delay Event the claim is based upon, (ii) details of the circumstances from which the delay arises and (iii) an estimate of the delay in the performance of obligations under this Agreement attributable to such Delay Event and information in support thereof, if known at that time. The University shall, after receipt of any such notice, be entitled by notice to require the Concessionaire to provide such further supporting particulars as the University may reasonably consider necessary.
- (b) The Concessionaire shall notify the University within 5 Business Days following the date on which it first became aware that a Delay Event has ceased.
- (c) Subject to the Concessionaire giving the notice required in Section 15.1(a), a Delay Event shall excuse the Concessionaire from whatever performance is prevented by the Delay Event referred to in such notice and, to the extent applicable, for such appropriate number of Days as the University and the Concessionaire jointly determine, each acting reasonably. If the University and the Concessionaire cannot agree upon the period of extension, then either Party shall be entitled to refer the matter to the dispute resolution procedure in Article 18. This Section 15.1(c) shall not excuse the Concessionaire from the performance and observance under this Agreement of all obligations and covenants not affected by the Delay Event. While a Delay Event is occurring, the Utility Fee shall be reduced by an amount equal to the Utility Fee multiplied by the percentage of the Utility System that is inoperable as a result of the Delay Event, as determined by the University in its reasonable discretion (as determined by the reduction in delivery capacity as compared to the delivery capacity immediately preceding such Delay Event), provided that such Delay Event shall be deemed a Compensation Event. Notwithstanding the occurrence of a Delay Event, the Concessionaire shall continue its performance and observance under this Agreement of all of its obligations and covenants to the extent that it is reasonably able to do so and shall use its reasonable efforts to minimize the effect and duration of the Delay Event. Nothing herein shall permit or excuse noncompliance with a change to applicable Laws.
- (d) Except as provided in the immediately following sentence, (i) if a Delay Event occurs that has the effect of causing physical damage or destruction to a material part of the Utility System that results in the Utility System being substantially unavailable for the provision of Utility Services and such effect continues for a

period in excess of 120 continuous Days or 120 non-continuous Days within a 360-Day period and has a Material Adverse Effect, or (ii) if insurance policies payable (or that should have been payable but for the breach of an obligation to take out and maintain such insurance policy by the Concessionaire) or condemnation or other similar proceeds are insufficient to restore the Concessionaire to the same economic position as it would have been in the absence of such event, then, notwithstanding Section 2.1, in either case, the Concessionaire shall have the right, but not the obligation, by written notice to the University within 30 Days after the Delay Event Remedy is permitted to be elected, to extend the Term for a period that would be sufficient to compensate the Concessionaire and restore it to the same economic position as it would have been in had such Delay Event not occurred (a “Delay Event Remedy”); provided, however, in no event shall the Term be extended if such extension is prohibited by Law or if the extended Term, when taking into account such extension, would subject the Concessionaire or the University to a leasehold tax, conveyance fee or similar charge under applicable Law. If the Concessionaire elects to exercise the right to the Delay Event Remedy but such exercise is prohibited by Law or would subject the Concessionaire or the University to a leasehold tax, conveyance fee or similar charge under applicable Law, (i) the Delay Event Remedy shall be modified such that the Term is extended only for such period as would not cause exercise of the Delay Event Remedy to be prohibited by Law or to subject the Concessionaire or the University to a leasehold tax, conveyance fee or similar charge under applicable Law, and (ii) the relevant Delay Event shall be a Compensation Event to the extent necessary to compensate the Concessionaire and restore it to the same economic position as it would have been in, absent the modification to the Delay Event Remedy pursuant to clause (i) of this sentence.

- (e) If the Concessionaire elects to exercise the right to the Delay Event Remedy, within 5 Business Days following the date on which the Concessionaire first became aware of its right to the Delay Event Remedy pursuant to Section 15.1(d)(i) or Section 15.1(d)(ii), the Concessionaire shall give written notice (a “Delay Event Remedy Notice”) to the University setting forth (i) the details of the relevant Delay Event and its effect on either causing physical damage or destruction to the Utility System that results in the Utility System being substantially unavailable for the provision of Utility Services, (ii) the amount claimed to be required to restore the Concessionaire to the same economic position as it would have been in had such Delay Event not occurred (including the details of the calculation thereof) and (iii) the details of the relationship between such amount and the Concessionaire’s proposed extension of the Term. The University shall, after receipt of the Delay Event Remedy Notice, be entitled by notice to require the Concessionaire to provide such further supporting particulars as the University may reasonably consider necessary. If the University wishes to dispute the occurrence of a Delay Event or the Delay Event Remedy claimed in the Delay Event Remedy Notice, the University shall give written notice to dispute (the “Delay Event Remedy Dispute Notice”) to the Concessionaire within 30 Days following the date of receipt of the Delay Event

Remedy Notice stating the grounds for such dispute, and if neither the Delay Event Remedy Notice nor the Delay Event Remedy Dispute Notice has been withdrawn within 30 Days following the date of receipt of the Delay Event Remedy Dispute Notice by the Concessionaire, the matter shall be submitted to the dispute resolution procedure in Article 18. For the avoidance of doubt, if the conditions set forth in Section 15.1(d)(i) and Section 15.1(d)(ii) occur with respect to the same Delay Event, the Concessionaire may have 2 opportunities to provide a Delay Event Remedy Notice.

Section 15.2. Notice of Compensation Events and KPI Events. Except as provided elsewhere in this Agreement, if a Compensation Event occurs, the Concessionaire shall give written notice to the University within 30 Days following the date on which the Concessionaire first became aware of the Compensation Event stating that a Compensation Event has occurred. Except as provided elsewhere in this Agreement, if a KPI Event occurs, the University shall give written notice to the Concessionaire within 30 Days following the date on which the University first became aware of the KPI Event stating that a KPI Event has occurred.

Section 15.3. Payments of Concession Compensation and KPI Compensation.

- (a) Within 30 Days after each Compensation Calculation Date, the Concessionaire shall send the University notice setting forth all Concession Compensation due for the immediately preceding Compensation Calculation Measuring Period, and the University shall send the Concessionaire notice setting forth all KPI Compensation due for the immediately preceding Compensation Calculation Measuring Period. Each such notice shall set forth (i) the amount claimed and details of the calculation thereof; (ii) details of the Compensation Event(s), Adverse Action(s) and KPI Event(s), as applicable, as a result of which Concession Compensation and KPI Compensation, as applicable, is claimed therein, including an explanation of the reasons that such event(s) constitute Compensation Event(s), Adverse Action(s) and KPI Event(s), as applicable, under the terms of this Agreement; and (iii) the amount claimed as Concession Compensation and KPI Compensation, as applicable, with respect to each such Compensation Event, Adverse Action and KPI Event, as applicable, and details of the calculation thereof.
- (b) If either Party wishes to dispute the occurrence of any Compensation Event(s), Adverse Action(s) or KPI Event(s) set forth in the notices described in Section 15.3(a) or the amounts claimed thereunder, then such Party shall give written notice of dispute (the “Dispute Notice”) to the other Party within 30 Days following the date of receipt of the relevant notice stating the grounds for such dispute. If the Dispute Notice has not been withdrawn or the dispute otherwise resolved by the Parties within 30 Days following the date of receipt of the Dispute Notice, the matter shall be submitted to the dispute resolution procedure set forth in Article 18.
- (c) The University and the Concessionaire shall cooperate and assist in good faith in the determination of the Concession Compensation and KPI Compensation in

accordance with this Section 15.3, including making available, to the extent reasonably necessary, books, records, work papers and personnel at such reasonable times as any Party shall request and permitting (at the expense of the requesting Party) the copying of any records or extracts thereof reasonably requested, subject to Section 3.12.

- (d) The University shall have the right, prior to any payment of the Concession and KPI Compensation Balance, to include any Concession Compensation in the applicable Utility Fee as (i) a New Approved Capital Improvement if the Concession Compensation was incurred in connection with the construction of a Capital Improvement or (ii) an Uncapped O&M Cost payable over the next Fiscal Year in equal monthly installments.
- (e) If, following the final determination of the Concession Compensation and KPI Compensation for any Compensation Calculation Date other than the End Date, the Concession and KPI Compensation Balance for such Compensation Calculation Measuring Period is finally determined in accordance with this Section 15.3, to be less than \$1,000,000 (whether owed to the University or the Concessionaire), neither Party shall make a payment pursuant to this Section 15.3, and, instead, such amount shall be carried forward to the succeeding determination of the Concession and KPI Compensation Balance in accordance with the definition thereof.
- (f) If, following the final determination of the Concession Compensation and KPI Compensation, the Concession and KPI Compensation Balance for such Compensation Calculation Measuring Period as finally determined in accordance with this Section 15.3, exceeds \$1,000,000 (whether owed to the University or to the Concessionaire) or if the relevant Compensation Calculation Date is the End Date, then, (i) if the Concession and KPI Compensation Balance is positive, then the University shall pay, within 15 Business Days of such final determination, to the Concessionaire, the Concession and KPI Compensation Balance or add such amount to the immediately succeeding payment of the Utility Fee in accordance with Section 15.3(d), if applicable or (ii) if the Concession and KPI Compensation Balance is negative, then the Concessionaire shall pay, within 15 Business Days of such final determination, to the University, the absolute amount of the Concession and KPI Compensation Balance or, with the University's consent, offset such amount against the immediately succeeding payment of the Utility Fee, if applicable.
- (g) For the determination of the Concession and KPI Compensation Balance for the Compensation Calculation Date that is the End Date, the Concession Compensation shall also include the Unrecovered Balances as of the End Date, unless this Agreement is terminated as a result of a Concessionaire Default, in which case no Unrecovered Balances shall be included in the Concession and KPI Compensation Balance.

- (h) Notwithstanding anything to the contrary contained in this Section 15.3, if there is KPI Compensation that is determined to be due and payable with respect to the Safety KPI at the end of any Compensation Calculation Measuring Period, such KPI Compensation shall not be included in the Concession and KPI Compensation Balance but will instead be paid into a separate account held by the University at the same time as the payment of any Concession and KPI Compensation Balance. Within 30 Days after such payment, the Concessionaire shall propose a Capital Improvement, Material Change or other initiative designed to increase the safety of Utility System Operations that is reasonably expected to cost the amount of such KPI Compensation that had been paid for the University's Approval in the same manner as a Capital Improvement or Material Change in accordance with Section 4.3. If the University does not Approve such proposal, then the Concessionaire shall, promptly thereafter, submit another proposal that meets the criteria hereunder for the University's Approval, and this process shall continue until the University Approves a proposal. Promptly after University Approval of such proposal, the Concessionaire shall construct, perform or otherwise implement such proposal using the funds paid as KPI Compensation for a Safety KPI, which payment shall be subject to receipt of evidence, reasonably acceptable, that such funds had been spent and that the Concessionaire has completed such proposal. For the avoidance of doubt, such amounts shall not be included in the Utility Fee, and the Concessionaire shall earn no return thereon.

Section 15.4. KPI Compensation. Other than the University's right to cause the Concessionaire to remove the Operator pursuant to Section 3.3(c), the payment of KPI Compensation by the Concessionaire shall constitute the Concessionaire's sole and exclusive liability and the University's sole and exclusive remedy for any KPI Event.

Section 15.5. Maximum Annual Amount of KPI Compensation. Notwithstanding anything to the contrary contained herein, the maximum amount of KPI Compensation for which the Concessionaire may be liable in any given Fiscal Year shall be the greater of (i) \$20,000,000 and (ii) 30% of the Utility Fee for that Fiscal Year. For the avoidance of doubt, the limitation on the maximum amount of KPI Compensation shall not limit the number of KPI Events that have occurred, including the determination of the number of KPI Events in a Fiscal Year for purposes of Section 3.3 or the determination of future KPI Compensation.

ARTICLE 16 DEFAULTS

Section 16.1. Default by the Concessionaire.

- (a) *Events of Default.* The occurrence of any one or more of the following events during the Term shall constitute a "Concessionaire Default" under this Agreement:
- (i) if the Concessionaire fails to comply with, perform or observe any material obligation, covenant, agreement, term or condition in this

Agreement other than a breach of the Performance Standards or a KPI Event, and such failure continues unremedied for a period of 90 Days following notice thereof (giving particulars of the failure in reasonable detail) from the University to the Concessionaire or for such longer period as may be reasonably necessary to cure such failure, provided, in the latter case, that the Concessionaire has demonstrated to the satisfaction of the University, that (A) it is proceeding, and will proceed, with all due diligence to cure or cause to be cured such failure, (B) its actions can be reasonably expected to cure or cause to be cured such failure within a reasonable period of time acceptable to the University, and (C) such failure is, in fact, cured within such period of time;

- (ii) if this Agreement or all or any portion of the Concessionaire Interest is Transferred in contravention of Article 17 and such Transfer or action continues unremedied for a period of 10 Business Days following notice thereof from the University to the Concessionaire;
- (iii) if the Concessionaire fails to comply with the requirements or directives of a final award in a matter submitted to dispute resolution in accordance with Article 18, and such failure continues unremedied for a period of 30 Days following notice thereof from the University to the Concessionaire, or for such longer period as may be reasonably necessary to cure such failure, provided, in the latter case, that the Concessionaire has demonstrated to the satisfaction of the University, that (A) it is proceeding, and will proceed, with all due diligence to cure or cause to be cured such failure, (B) its actions can be reasonably expected to cure or cause to be cured such failure within a reasonable period of time acceptable to the University, and (C) such failure is, in fact, cured within such period of time;
- (iv) if the Concessionaire (A) admits, in writing, that it is unable to pay its debts as such become due, (B) makes an assignment for the benefit of creditors, (C) files a voluntary petition under Title 11 of the United States Code, or if such petition is filed against it and an order for relief is entered, or if the Concessionaire files any petition or answer seeking, consenting to or acquiescing in any reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under the present or any future United States Bankruptcy Code or any other present or future applicable Law, or shall seek or consent to or acquiesce in or suffer the appointment of any trustee, receiver, custodian, assignee, sequestrator, liquidator or other similar official of the Concessionaire or of all or any substantial part of its properties or of the Utility System or any interest therein, or (D) takes any corporate action in furtherance of any action described in this Section 16.1(a)(iv);
- (v) if within 90 Days after the commencement of any proceeding against the Concessionaire seeking any reorganization, arrangement, composition,

readjustment, liquidation, dissolution or similar relief under the present or any future United States Bankruptcy Code or any other present or future applicable Law, such proceeding has not been dismissed, or if, within 90 Days after the appointment, without the consent or acquiescence of the Concessionaire, of any trustee, receiver, custodian, assignee, sequestrator, liquidator or other similar official of the Concessionaire or of all or any substantial part of its properties or of the Utility System or any interest therein, such appointment has not been vacated or stayed on appeal or otherwise, or if, within 90 Days after the expiration of any such stay, such appointment has not been vacated;

- (vi) if a levy under execution or attachment has been made against all or any part of the Utility System or any interest therein as a result of any Encumbrance (other than a Permitted Concessionaire Encumbrance) created, incurred, assumed or suffered to exist by the Concessionaire or any Person claiming through it, and such execution or attachment has not been vacated, removed or stayed by court order, bonding or otherwise within 60 Days after the Concessionaire becomes aware of such levy, unless such levy resulted from actions or omissions of the University or its Representatives; or
- (vii) the Concessionaire repudiates in writing any of its material obligations under this Agreement.

Notwithstanding the foregoing, a Concessionaire Default shall not include any failure by the Concessionaire to perform its obligations under this Agreement (other than payment obligations) to the extent such failure is the result of Force Majeure.

- (b) *Remedies of the University upon Concessionaire Default.* Upon the occurrence, and during the continuance, of a Concessionaire Default, the University may, by notice to the Concessionaire, declare the Concessionaire to be in default and may, subject to the provisions of Article 18 and Article 19, do any or all of the following as the University, in its discretion, shall determine:
 - (i) subject to the cure rights of the Leasehold Mortgagee set forth in Section 19.3, the University may terminate this Agreement by giving 30 Days' prior notice to the Concessionaire upon the occurrence of any Concessionaire Default; provided, however, that the Concessionaire shall be entitled to cure a Concessionaire Default pursuant to Section 16.1(a)(i) by (i) agreeing within such 30-Day period to pay any Losses sustained as a result of such Concessionaire Default and (ii) providing the University with a written work plan within such 30-Day period outlining the actions by which the Concessionaire will ensure future compliance with either (x) the obligation, covenant, agreement, term or condition in this Agreement or (y) the requirements or directives of the issued final award in accordance with Article 18 that the Concessionaire failed to perform or observe, which work plan is Approved by the University, but any failure

of the Concessionaire to comply in any material respect with such Approved work plan (other than as a result of a Delay Event) following 30 Days' notice of such failure from the University to the Concessionaire shall be deemed to be a Concessionaire Default described in Section 16.1(a)(i) and the entitlement of the Concessionaire to cure such Concessionaire Default by the delivery of an Approved work plan shall not apply thereto;

- (ii) if the Concessionaire Default is by reason of the failure to pay any monies to another Person, the University may (without obligation to do so) make payment on behalf of the Concessionaire of such monies unless such non-payment is due to a bona fide dispute, and any amount so paid by the University shall be payable by the Concessionaire to the University within 3 Business Days after demand therefor;
- (iii) subject to the cure rights of the Leasehold Mortgagee set forth in Section 19.3, the University may cure the Concessionaire Default (but this shall not obligate the University to cure or attempt to cure a Concessionaire Default or, after having commenced to cure or attempted to cure a Concessionaire Default, to continue to do so), and all costs and expenses reasonably incurred by the University in curing or attempting to cure the Concessionaire Default, shall be payable by the Concessionaire to the University within 3 Business Days after written demand therefor; provided, however, that (A) the University shall not incur any liability to the Concessionaire for any act or omission of the University or any other Person in the course of remedying or attempting to remedy any Concessionaire Default unless resulting from the University's recklessness, gross negligence or willful misconduct; (B) the University's cure of any Concessionaire Default shall not affect the University's rights against the Concessionaire by reason of the Concessionaire Default; and (C) the University may seek specific performance, injunction or other equitable remedies, it being acknowledged that damages are an inadequate remedy for a Concessionaire Default;
- (iv) the University may seek to recover its Losses arising from such Concessionaire Default and any amounts due and payable under this Agreement and, in connection therewith, exercise any recourse available to any Person who is owed damages or a debt;
- (v) with respect to those Concessionaire Defaults that entitle the University to terminate this Agreement pursuant to Section 16.1(b)(i), the University may terminate the Concessionaire's right to use, operate, maintain, possess, and rehabilitate the Utility System and the Concessionaire's right to collect from the University and retain the Utility Fee, and in such event, the University or the University's agents and servants may immediately or at any time thereafter take possession and control of the Utility System, by any available action under Law or proceeding at law or in equity, and with

or without terminating this Agreement, and undertake any and all of the Utility System Operations; provided, however, that no such action by the University shall be construed as an election on its part to terminate this Agreement unless a notice of such intention is given to the Concessionaire; and

- (vi) the University may exercise any of its other rights and remedies provided for hereunder or at law or equity.

Section 16.2. Default by the University.

- (a) *Events of Default.* The occurrence of any one or more of the following events during the Term shall constitute a “University Default” under this Agreement:
 - (i) if the University fails to pay the Utility Fee, the Forecast Utility Fee or the Concession and KPI Compensation Balance to the extent the University is required to do so pursuant to Section 15.3(f), each in accordance herewith and such failure continues unremedied for a period of 5 Business Days following notice thereof (giving particulars of the failure in reasonable detail) from the Concessionaire to the University;
 - (ii) if the University fails to comply with or observe any material obligation, covenant, agreement, term or condition in this Agreement (other than an Adverse Action or the payment of the Utility Fee, the Forecast Utility Fee or the Concession and KPI Compensation Balance to the extent the University is required to do so pursuant to Section 15.3(f)) and such failure continues unremedied for a period of 90 Days following notice thereof (giving particulars of the failure in reasonable detail) from the Concessionaire to the University or for such longer period as may be reasonably necessary to cure such failure, provided, in the latter case, that the University has demonstrated to the satisfaction of the Concessionaire, that (A) it is proceeding with all due diligence to cure or cause to be cured such failure, (B) its actions can be reasonably expected to cure or cause to be cured such failure within a reasonable period of time acceptable to the Concessionaire, and (C) such failure is, in fact, cured within such period of time;
 - (iii) if the University fails to comply with the requirements or directives of a final award in a matter submitted to dispute resolution in accordance with Article 18 and such default continues unremedied for a period of 30 Days following notice thereof from the Concessionaire to the University, or for such longer period as may be reasonably necessary to cure such failure, provided, in the latter case, that the University has demonstrated to the satisfaction of the Concessionaire, acting reasonably, that (A) it is proceeding, and will proceed, with all due diligence to cure or cause to be cured such failure, (B) its actions can be reasonably expected to cure or cause to be cured such failure within a reasonable period of time

acceptable to the Concessionaire, acting reasonably and (C) such failure is, in fact, cured within such period of time;

- (iv) if a levy under execution or attachment has been made against all or any part of the Utility System or the Concessionaire Interest as a result of any Encumbrance (other than a Permitted University Encumbrance) created, incurred, assumed or suffered to exist by the University or any Person claiming through it, and such execution or attachment has not been vacated, removed or stayed by court order, bonding or otherwise within a period of 60 Days, unless such levy resulted from actions or omissions of the Concessionaire or its Representatives or if all or a material part of the Utility System shall be subject to a condemnation or similar taking by the University or any agency thereof;
- (v) if the University (A) admits, in writing, that it is unable to pay its debts as such become due, (B) makes an assignment for the benefit of creditors, (C) files a voluntary petition under Title 9 of the United States Code, or if such petition is filed against it and an order for relief is entered, or if the University files any petition or answer seeking, consenting to or acquiescing in any reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under the present or any future United States Bankruptcy Code or any other present or future applicable Law, or shall seek or consent to or acquiesce in or suffer the appointment of any trustee, receiver, custodian, assignee, sequestrator, liquidator or other similar official of the University, or of all or any substantial part of its properties (in each case, to the extent applicable to a municipality), or (D) takes any action in furtherance of any action described in this Section 16.2(a)(v); or if within 90 Days after the commencement of any proceeding against the University seeking any reorganization, arrangement, composition, readjustment, liquidation, dissolution or similar relief under the present or any future United States Bankruptcy Code or any other present or future applicable Law, such proceeding has not been dismissed, or if, within 90 Days after the appointment, without the consent or acquiescence of the University, of any trustee, receiver, custodian, assignee, sequestrator, liquidator or other similar official of the University or of all or any substantial part of its properties (in each case, to the extent applicable to a municipality), such appointment has not been vacated or stayed on appeal or otherwise, or if, within 90 Days after the expiration of any such stay, such appointment has not been vacated; or
- (vi) the University repudiates in writing any of its material obligations under this Agreement.

Notwithstanding the foregoing, a University Default shall not include any failure to perform its obligations under this Agreement (other than payment obligations) to the extent such failure is the result of Force Majeure.

- (b) *Remedies of Concessionaire Upon University Default.* Upon the occurrence, and during the continuance, of a University Default, the Concessionaire may by notice to the University declare the University to be in default and may, subject to the provisions of Article 18, do any or all of the following as the Concessionaire, in its discretion, shall determine:
- (i) terminate this Agreement by giving 60 Days' prior notice to the University; provided, however, that the University shall be entitled to cure a University Default pursuant to Section 16.2(a)(ii) or Section 16.2(a)(iii) by (i) agreeing within such 60-Day period to pay any Losses sustained as a result of such University Default or (ii) providing the Concessionaire with a written work plan within such 60-Day period outlining the actions by which the University will ensure future compliance with either (x) the obligation, covenant, agreement, term or condition in this Agreement that the University failed to perform or observe or (y) the requirements or directives of the final award issued in accordance with Article 18 that the University failed to perform or observe, which work plan is approved by the Concessionaire, but any failure of the University to comply in any material respect with such approved work plan following 30 Days' notice of such failure from the Concessionaire to the University shall be deemed to be a University Default described in Section 16.2(a)(ii) and the entitlement of the University to cure such University Default by the delivery of an approved work plan shall not apply thereto; and upon such termination, the University shall be obligated to pay to the Concessionaire the Utility System Concession Value plus, without duplication, the unpaid Concession and KPI Compensation Balance and the out-of-pocket and documented costs and expenses incurred by the Concessionaire as a result of such termination;
 - (ii) exercise any of its rights or remedies at law or in equity;
 - (iii) seek to recover its Losses and any amounts due and payable under this Agreement and, in connection therewith, exercise any recourse available to any Person who is owed damages or a debt; and
 - (iv) seek specific performance, injunction or other equitable remedies, it being acknowledged that damages are an inadequate remedy for a University Default.

Section 16.3. Consequences of Termination or Reversion. Upon the termination or expiration of this Agreement, notwithstanding any claims the Parties may have against each other and subject to Section 16.2(b)(iii), the following provisions shall apply:

- (a) the Concessionaire shall, without action whatsoever being necessary on the part of the University (other than any payment obligations of the University with respect to such termination, if any, and the payment obligation set forth in this Section 16.3(a)), surrender, transfer and deliver to the University the Utility

System (including all improvements to the Utility System), the Utility System Assets (to the extent they have not been disposed of in the ordinary course of business) and all tangible and intangible personal property of the Concessionaire (including inventories) that is included in the Utility System or used in connection with the Utility System Operations, in good order, condition and repair (reasonable wear and tear excepted), determined reasonably in accordance with the then applicable Performance Standards, free and clear of all Encumbrances other than (w) Permitted Concessionaire Encumbrances set forth in clauses (iv) and (vii) of the definition of that term, (x) Permitted University Encumbrances, (y) those created by or suffered to exist or consented to by the University or any Person claiming through it, and (z) with respect to any property added to the Utility System after the Time of Closing, title defects affecting such property in existence on the date such property is added to the Utility System, all in exchange for \$1 paid by the University on the Reversion Date;

- (b) the Concessionaire hereby waives any notice now or hereafter required by Law with respect to transfer of the Utility System on the Reversion Date;
- (c) the University shall, as of the Reversion Date, assume full responsibility for the Utility System Operations, and as of such date, the Concessionaire shall have no liability or responsibility for Utility System Operations occurring after such date;
- (d) the Concessionaire shall be liable for all costs, expenses and other amounts for which it is liable or responsible hereunder incurred up to but not including the Reversion Date, and the University shall be liable for all costs, expenses and amounts incurred in connection with the Utility System Operations on and after the Reversion Date;
- (e) the University shall have the option, subject to the rights of any Leasehold Mortgagee, or its designee or nominee, to enter into a New Agreement with a third party, by providing notice to the Concessionaire requiring that the Concessionaire assign, without warranty or recourse to the Concessionaire, to the fullest extent permitted by Authorizations and applicable Law, all of its right, title and interest in, to and under (in each of the following cases, to the extent assignable) all or any of the Operating Agreements then in effect and all Authorizations to the University or its nominee for the remainder of their respective terms; provided, however, that if the University exercises such option, the right, title and interest of the Concessionaire in, to and under such Operating Agreements and Authorizations shall be assigned to the University or its nominee as of the Reversion Date and the Concessionaire shall surrender the Utility System to the University and shall cause all Persons claiming under or through the Concessionaire to do likewise, and the University shall assume in writing, pursuant to an assumption agreement satisfactory to the Concessionaire, the Concessionaire's obligations under the Operating Agreements that arise in respect of, or relate to, any period of time falling on and after the Reversion Date; provided further, that if the University does not exercise such option, the

Concessionaire shall take such steps as are necessary to terminate the Operating Agreements to the extent permitted thereunder and in accordance with the terms thereof;

- (f) the Concessionaire, at its sole cost and expense, shall promptly deliver to the University copies of all records and other documents relating to the Utility Fee that are in the possession of the Concessionaire or its Representatives and all other then-existing records and information relating to the Utility System as the University, acting reasonably, may request;
- (g) the Concessionaire shall execute and deliver to the University transfer of title documents and other instruments reasonably required by the University to evidence such termination;
- (h) the Concessionaire shall assist the University in such manner as the University may require to ensure the orderly transition of control, operation, management, maintenance and rehabilitation of the Utility System, and shall, if appropriate and if requested by the University, take all steps as may be necessary to enforce the provisions of the Operating Agreements pertaining to the surrender of the Utility System;
- (i) the University and the Concessionaire shall make appropriate adjustments, including adjustments relating to any Operating Agreements assigned to the University, Utility Fee and other similar charges collected on and after the Reversion Date that are incurred prior to the Reversion Date, and utilities, and any adjustments and payment therefor shall be made by the appropriate Party on the Reversion Date, but shall be subject to readjustment if necessary because of error in matters such as information, calculation, payments and omissions that are identified within the period of 180 Days following the Reversion Date; provided, however, that the University and the Concessionaire acknowledge that certain adjustments or readjustments may have to be made when a third party provides to the University or the Concessionaire a final adjustment amount in respect of a matter, and for such matters the adjustment and readjustment date shall each be correspondingly extended;
- (j) if this Agreement is terminated as a result of an Adverse Action, the payment by the University to the Concessionaire of the amounts required under Article 14 or Article 18 shall constitute full and final settlement of any and all Claims the Concessionaire may have against the University for and in respect of the termination of this Agreement and upon such payment, the Concessionaire shall execute and deliver all such releases and discharges as the University may reasonably require to give effect to the foregoing; and
- (k) all plans, drawings, specifications and models prepared in connection with construction at the Utility System and in the Concessionaire's possession and all "as-built" drawings shall become the sole and absolute property of the University, and the Concessionaire shall promptly deliver to the University all

such plans, drawings, specifications and models and all such as-built drawings (but may keep copies of those plans, drawings, specifications and models that were developed by the Concessionaire or its Representatives).

This Section 16.3 shall survive the expiration or any earlier termination of this Agreement.

Section 16.4. Termination Other than Pursuant to Agreement. If this Agreement is terminated by the University other than pursuant to Section 16.1, or is canceled, rescinded or voided during the Term for any reason over the objection and without action by the Concessionaire, the University shall pay to the Concessionaire the Utility System Concession Value as of the date of such termination, cancellation, rescinding or voiding, plus, without duplication, the out-of-pocket and documented costs and expenses incurred by the Concessionaire or the Operator as a direct result of such termination, cancellation, rescinding or voiding. The University hereby acknowledges and agrees that it may only terminate this Agreement in accordance with the express terms hereof and shall not, in any event, have the right to terminate this Agreement for convenience. The Concessionaire hereby acknowledges and agrees that it may only terminate this Agreement in accordance with the express terms hereof and shall not, in any event, have the right to terminate this Agreement for convenience or to challenge the validity or enforceability of this Agreement.

ARTICLE 17

RESTRICTIONS ON TRANSFERS

Section 17.1. Transfers by the Concessionaire.

- (a) Subject in all respects to the collateral assignment of the Concessionaire Interest to the Leasehold Mortgagee, and exercise by the Leasehold Mortgagee of its rights pursuant to such assignment, including by foreclosure, as set forth in Article 19, the Concessionaire shall not Transfer, or otherwise permit the Transfer, of any part of the Concessionaire Interest to or in favor of a Transferee (other than a Transferee that is an Affiliate or a Leasehold Mortgagee under or nominee/designee of a Leasehold Mortgagee under Article 19) that would result in the Concessionaire directly owning 50% or less of the Concessionaire Interest granted to the Concessionaire as of the date hereof unless (i) the University has Approved (based upon a determination in accordance with Section 17.1(b)) such proposed Transferee and (ii) the proposed Transferee (other than a Transferee that is an Affiliate or a Leasehold Mortgagee under Article 19) enters into an agreement with the University in form and substance satisfactory to the University, acting reasonably, wherein the Transferee acquires the rights and assumes the obligations of the Concessionaire and agrees to perform and observe all of the obligations and covenants of the Concessionaire under this Agreement. Any Transfer made in violation of the foregoing provision shall be null and void ab initio and of no force and effect.
- (b) Approval of a proposed Transfer may be withheld if the University reasonably determines that (i) such proposed Transfer is prohibited by applicable Law,

(ii) such proposed Transferee's entering into this Agreement with the University is prohibited by Law, (iii) such proposed Transfer would result in a violation of Law, (iv) such proposed Transfer would result in a Tax liability to the University (unless the University shall have received indemnification, as determined in the University's discretion, with respect thereto) or (v) such proposed Transferee is not capable of performing the obligations and covenants of the Concessionaire under this Agreement. Such determination shall be based upon and take into account the following factors, in each case assessed as of the date of such determination but after giving effect to the proposed Transfer together with any related transactions (including the proposed transfer of employees and other resources to such Transferee in connection with such proposed Transfer and related transactions): (a) the financial strength and integrity of the proposed Transferee, its direct or indirect beneficial owners, any proposed managers or operating partners and each of their respective Affiliates; (b) the experience of the proposed Transferee or the Operator to be engaged by the proposed Transferee in operating a utility system and performing other relevant projects; (c) the background and reputation of the proposed Transferee, its direct or indirect beneficial owners, any proposed managers or operating partners, each of their respective officers, directors and employees and each of their respective Affiliates (including the absence of criminal, civil or regulatory claims or actions against any such Person and the quality of any such Person's past or present performance on other projects); and (d) the Operator engaged by the proposed Transferee, including the ability of the Operator to meet the Performance Standards. If the Concessionaire disputes the University's determination under this Section 17.1(b), such dispute shall be resolved in accordance with Article 18.

- (c) If requested by the Concessionaire, the University shall, on a confidential basis (unless disclosure is required by applicable Law) and at the Concessionaire's sole cost and expense, evaluate one or more proposed Transferees as provided in Section 17.1(b) and notify the Concessionaire within 30 Business Days of its Approval or withholding of Approval with respect to such proposed Transferee(s).
- (d) No Transfer of all or any of the Concessionaire Interest (except for a Transfer to a Leasehold Mortgagee or its nominee upon its exercise of remedies under the Leasehold Mortgage and any subsequent transfer to the transferee of the Leasehold Mortgage that has been Approved under Section 17.1(b)) shall be made or have any force or effect if, at the time of such Transfer there has occurred a Concessionaire Default that has not been remedied or an event that with the lapse of time, the giving of notice or otherwise would constitute a Concessionaire Default.
- (e) A Change in Control of the Concessionaire (other than a Change in Control occasioned by the exercise by any Leasehold Mortgagee of its remedies under any pledge of shares, limited liability company interest or partnership interest) shall be deemed to be a Transfer of the Concessionaire Interest for purposes of

the foregoing provisions (thus requiring the University's Approval) and shall be evaluated by the University as provided in Section 17.1(b) and Section 17.1(c).

- (f) Nothing contained in the foregoing shall be deemed to prohibit or limit the Concessionaire from changing its name, organizational form or status (including a change from a limited liability company to a corporation or limited partnership), provided that such change in name, organizational form or status does not result in a Change in Control of the Concessionaire.
- (g) Neither (i) a change of ownership that is attributable to a lease, sublease, concession, management agreement, operating agreement or other similar arrangement that is subject and subordinate in all respects to the rights of the University under this Agreement so long as (A) no "Change in Control" occurs with respect to the Concessionaire and (B) the Concessionaire remains obligated under this Agreement, nor (ii) the creation of a trust or any other transaction or arrangement that is solely a transfer of all or part of the Concessionaire's economic interest under this Agreement to another entity shall be deemed to be a Transfer of the Concessionaire Interest for purposes of Section 17.1(a).

Section 17.2. Assignment by the University or the BOR. The University and the BOR shall each have the right to Transfer any or all of its respective interest in the Utility System and this Agreement, provided that it shall be jointly and severally liable with the Transferee for the performance and observance of the obligations and covenants of the University or the BOR, as applicable, under this Agreement, and any agreement entered into by the University or the BOR, as applicable, under this Agreement (including agreeing directly with any Leasehold Mortgagee to be bound by the agreement entered into in accordance with Section 19.3) and that any such Transfer by the University or the BOR shall not materially limit or reduce any of the Concessionaire's other rights, benefits, remedies or privileges under this Agreement nor shall it materially impair the University's ability to meet its obligations under this Agreement and, provided further, any such Transfer shall be subject to the rights and Encumbrances of the Concessionaire and of the Leasehold Mortgagee under any Leasehold Mortgagee.

ARTICLE 18 DISPUTE RESOLUTION

Section 18.1. Scope. Any dispute arising out of, relating to, or in connection with this Agreement shall be resolved as set forth in this Article 18.

Section 18.2. Informal Dispute Resolution Procedures. The Parties shall attempt in good faith to resolve such dispute within 15 Business Days following receipt by one Party of notice of such dispute from the other Party. If the Parties are unable to resolve the dispute within such period of 15 Business Days, and upon notice by either Party to the other, the dispute shall be referred to the Designated Senior Person of each Party. The Designated Senior Persons shall negotiate in good faith to resolve the dispute, conferring as often as they deem reasonably necessary. Statements made by Representatives of the Parties during the dispute resolution procedures set forth in this Section 18.2 and in Section 18.3 and documents specifically prepared

for such dispute resolution procedures shall be considered part of settlement negotiations and shall not be admissible as evidence in any litigation proceeding between the Parties without the mutual consent of the Parties.

Section 18.3. Mediation. Mediation of a dispute under this Agreement may not be commenced until the earlier of: (i) such time as both of the Designated Senior Persons, after following the procedures set forth in Section 18.2, conclude in good faith that amicable resolution through continued negotiation of the matter does not appear likely; or (ii) 15 Business Days after the notice referring the dispute to the Designated Senior Persons, pursuant to Section 18.2. If, after such time period, the dispute remains unresolved, the Parties shall attempt to resolve the dispute through mediation administered by the AAA under its Commercial Mediation Procedures before resorting to litigation, as provided by Section 18.4. The Parties agree that any period of limitation applicable to the assertion of a claim shall be deemed tolled during the conduct of informal dispute resolution under Section 18.2 and mediation under this Section 18.3, and that any claim of any Party shall be deemed not to have accrued until the mediation is terminated.

Section 18.4. Litigation. Unless the Parties otherwise agree, if mediation as set forth in Section 18.3 does not resolve the dispute within 30 Business Days following a reference to mediation or such longer period as the Parties may mutually agree, then the Parties shall present the dispute to such court of competent jurisdiction as set forth in Section 20.7.

Section 18.5. Provisional Remedies. No Party shall be precluded from initiating a proceeding in a court of competent jurisdiction for the purpose of obtaining any emergency or provisional remedy to protect its rights that may be necessary and that is not otherwise available under this Agreement or to enforce or execute upon a judgment entered in accordance with this Agreement, including temporary, preliminary and permanent injunctive relief and restraining orders, writs of mandamus, and the appointment of a receiver or receiver and manager in connection with the collection and retention of the Utility Fee.

Section 18.6. Tolling. If a Party receiving a notice of default under this Agreement contests, disputes or challenges the propriety of such notice by making application to the dispute resolution procedure in this Article 18, any cure period that applies to such default shall be tolled for the time period between such application and the issuance of a final award or determination.

ARTICLE 19 LENDERS

Section 19.1. Leasehold Mortgages. The Concessionaire shall have the right, at its sole cost and expense, to grant one or more Leasehold Mortgages, secured by the Concessionaire Interest or the Utility Fee if at the time any such Leasehold Mortgage is executed and delivered to the Leasehold Mortgagee, no Concessionaire Default exists and upon and subject to the following terms and conditions:

- (a) a Leasehold Mortgage may not cover any property of, or secure any debt issued or guaranteed by, any Person other than the Concessionaire or the Concessionaire's Parent, but may cover shares or equity interests in the capital of

the Concessionaire and any cash reserves or deposits held in the name of the Concessionaire;

- (b) no Person other than an Institutional Lender shall be entitled to the benefits and protections accorded to a Leasehold Mortgagee in this Agreement; provided, however, that lessors and lenders to the Concessionaire (and lenders to a Leasehold Mortgagee that is a Lessor) may be Persons other than Institutional Lenders so long as any Leasehold Mortgage securing the loans made by such Persons is held by an Institutional Lender acting as collateral agent or trustee;
- (c) no Leasehold Mortgage or other instrument purporting to mortgage, pledge, encumber, or create a lien, charge or security interest on or against any or all of the Concessionaire Interest shall extend to or affect the fee simple interest in the Utility System, the University's interest hereunder or the University's reversionary interests and estates in and to the Utility System or any part thereof; in addition, any termination of this Agreement, following the expiration of the Leasehold Mortgagee's cure period in Section 19.3, if any, without a cure, by the University shall simultaneously terminate the Leasehold Mortgage, provided that such termination shall not affect, modify or terminate the Concessionaire's obligations to the Leasehold Mortgagee with respect to the Leasehold Mortgage Debt;
- (d) the University shall have no liability whatsoever for payment of the principal sum secured by any Leasehold Mortgage, or any interest accrued thereon or any other sum secured thereby or accruing thereunder, and, except for violation by the University of express obligations set forth herein or in any other agreement with the Leasehold Mortgagee, the Leasehold Mortgagee shall not be entitled to seek any damages or other amounts against the University for any or all of the same;
- (e) the University shall have no obligation to any Leasehold Mortgagee in the enforcement of the rights and remedies of the University under this Agreement or by Law, except as expressly set forth in this Agreement or in any agreement with the Leasehold Mortgagee and unless such Leasehold Mortgagee has provided the University with notice of its Leasehold Mortgage in accordance with the Leasehold Mortgagee Notice Requirements;
- (f) each Leasehold Mortgage shall provide that if the Concessionaire is in default under the Leasehold Mortgage and the Leasehold Mortgagee gives notice of such default to the Concessionaire, then the Leasehold Mortgagee shall give written notice of such default to the University;
- (g) subject to the terms of this Agreement and the terms of any direct consent agreement executed by and between the University and Leasehold Mortgagee, all rights acquired by a Leasehold Mortgagee under any Leasehold Mortgage shall be subject and subordinate to all of the provisions of this Agreement and to all of the rights of the University hereunder and the Leasehold Mortgagee shall agree

to be bound by the terms of this Agreement to the extent applicable to the Leasehold Mortgagee;

- (h) notwithstanding any enforcement of the security of any Leasehold Mortgage, the Concessionaire shall remain liable to the University for the payment of all sums owing to the University under this Agreement and the performance and observance of all of the Concessionaire's covenants and obligations under this Agreement;
- (i) a Leasehold Mortgagee shall not, by virtue of its Leasehold Mortgage, acquire any greater rights or interest in the Utility System than the Concessionaire has at any applicable time under this Agreement, other than such rights granted expressly to such Leasehold Mortgagee pursuant to this Article 19, and each Leasehold Mortgagee, the University and the Concessionaire shall enter into a consent agreement in a form acceptable to all parties; provided that such consent agreement shall be in a customary form and shall include the rights and protections provided to the Leasehold Mortgagees in this Agreement;
- (j) a Leasehold Mortgagee shall, within ten (10) days after receipt of written request from the University or the BOR, execute an amendment to its recorded Leasehold Mortgage to conform the legal description of the real property encumbered by such Leasehold Mortgage to conform to the legal description in the Memorandum of Lease to the extent properly modified pursuant to Section 2.8; and
- (k) a Leasehold Mortgagee shall, within ten (10) days after receipt of written request from the University or the BOR, execute documentation reasonably acceptable to the University and the BOR releasing any land or other real property owned by the University or the BOR from the lien of any Leasehold Mortgage such that such land or real property may be conveyed to a third party without being subject to this Agreement or the Leasehold Mortgage, provided such request is accompanied by an affidavit from the University that such land or other real property does not contain any Utility Facilities or Utility System Assets.

While any Leasehold Mortgage is outstanding, the University shall not agree to any amendment or modification of this Agreement that could reasonably be expected to have a material adverse effect on the rights or interests of the Leasehold Mortgagee or agree to a voluntary surrender or termination of this Agreement by the Concessionaire without the consent of the Leasehold Mortgagee.

Section 19.2. Notices and Payments to Leasehold Mortgagees. Whenever a Leasehold Mortgage exists as to which the University has been provided notice by the holder thereof in accordance with the Leasehold Mortgagee Notice Requirements, the University shall, simultaneously with providing the Concessionaire any required notice under this Agreement, provide a copy of such notice to such Leasehold Mortgagee, and no such notice to the Concessionaire shall be effective against the Leasehold Mortgagee until a copy thereof is duly provided to such Leasehold Mortgagee at its address specified in its notice given to the

University in accordance with the Leasehold Mortgagee Notice Requirements (or any subsequent change of address notice given to the University pursuant to the requirements of Section 20.1). With respect to a Leasehold Mortgage regarding which the University has been provided notice in accordance with the Leasehold Mortgagee Notice Requirements, unless the Leasehold Mortgagee has otherwise advised the University in writing, all payments to the Concessionaire to be made by the University under this Agreement shall be made to the institution acting as the collateral agent or depository under the financing secured by such Leasehold Mortgage to the extent the University has been provided the name and mailing address of such institution.

Section 19.3. Leasehold Mortgagee's Right to Cure. The Leasehold Mortgagee shall have a period of 90 Days with respect to any Concessionaire Default beyond any cure period expressly provided to the Concessionaire herein, in which to cure or cause to be cured any such Concessionaire Default; provided, however, that such 90-Day period shall be extended if the Concessionaire Default may be cured but cannot reasonably be cured within such period of 90 Days, and the Leasehold Mortgagee begins to cure such default within such 90-Day period (or if possession is necessary in order to effect such cure, the Leasehold Mortgagee files the appropriate legal action to commence foreclosure on the liens of the Leasehold Mortgage (or takes other appropriate action to effect a transfer of title to the property subject to such liens) and take possession of the Utility System within such period) and thereafter proceeds with all due diligence to cure such Concessionaire Default (including by proceeding with all due diligence to effect such foreclosure and during such foreclosure action (to the extent practicable) and thereafter to effect such a cure) within a reasonable period of time acceptable to the University, acting reasonably; provided further that if a Leasehold Mortgagee's right to cure a Concessionaire Default has not expired, and the Leasehold Mortgagee is acting to cure such Concessionaire Default in accordance with this Section 19.3, then the University shall not exercise its right to terminate this Agreement by reason of such Concessionaire Default. In furtherance of the foregoing, the University shall permit the Leasehold Mortgagee and its Representatives the same access to the Utility System as is permitted to the Concessionaire hereunder. The University shall accept any such performance by a Leasehold Mortgagee as though the same had been done or performed by the Concessionaire. Any payment to be made or action to be taken by a Leasehold Mortgagee hereunder as a prerequisite to keeping this Agreement in effect shall be deemed properly to have been made or taken by the Leasehold Mortgagee if such payment is made or action is taken by a nominee, agent or assignee of the rights of such Leasehold Mortgagee. Any exercise of the Leasehold Mortgagee's rights to cure hereunder shall not result in the assumption by such Leasehold Mortgagee of the Concessionaire's obligations hereunder.

Section 19.4. Rights of the Leasehold Mortgagee.

- (a) Subject to the provisions of this Agreement, a Leasehold Mortgagee may (i) enforce its Leasehold Mortgage in any lawful way, (ii) acquire the Concessionaire Interest in any lawful way or (iii) take possession of in any lawful way and manage the Utility System in accordance with the terms of this Agreement. Upon foreclosure of (or without foreclosure upon exercise of any contractual or statutory power of sale under such Leasehold Mortgage or a deed in lieu) and subject to the provisions of Article 17 (applied to the Leasehold Mortgagee as if it were the Concessionaire, except that Section 17.1(c) will not

apply), a Leasehold Mortgagee may Transfer the Concessionaire Interest; provided, however, that no Transfer by a Leasehold Mortgagee shall be effective unless the Transfer is made in accordance with Section 17.1. Any Person to whom the Leasehold Mortgagee Transfers the Concessionaire Interest (including such Leasehold Mortgagee) shall take the Concessionaire Interest subject to any of the Concessionaire's obligations under this Agreement.

- (b) Except as provided in Section 19.3, unless and until a Leasehold Mortgagee (i) forecloses or has otherwise taken ownership of the Concessionaire Interest or (ii) has taken possession or control of the Concessionaire Interest, whether directly or by an agent as a mortgagee in possession or a receiver or receiver and manager has taken possession or control of the Concessionaire Interest by reference to the Leasehold Mortgage, the Leasehold Mortgagee shall not be liable for any of the Concessionaire's obligations under this Agreement or be entitled to any of the Concessionaire's rights and benefits contained in this Agreement, except by way of security; provided, however, that the Leasehold Mortgagee shall be entitled to cure any Concessionaire Default that requires payment of money by paying such money on the Concessionaire's behalf, prior to the Leasehold Mortgagee taking possession, control or ownership of the Concessionaire Interest. If the Leasehold Mortgagee itself or by an agent or a receiver or a receiver and manager is the owner, or is in control or possession of, the Concessionaire Interest, it shall be bound by all liabilities and obligations of the Concessionaire under this Agreement (including the obligation to engage an Operator). Once the Leasehold Mortgagee goes out of possession or control of the Concessionaire Interest or Transfers the Concessionaire Interest to another Person in accordance with the provisions of this Agreement, the Leasehold Mortgagee shall cease to be liable for any of the Concessionaire's obligations under this Agreement accruing thereafter and shall cease to be entitled to any of the Concessionaire's rights and benefits contained in this Agreement, except, if the Leasehold Mortgage remains outstanding, by way of security.

Section 19.5. Termination of this Agreement; New Agreement.

- (a) Without prejudice to the rights of a Leasehold Mortgagee under Section 19.3, if this Agreement is terminated prior to the expiration of the Term due to a Concessionaire Default (in which case the University shall notify the Leasehold Mortgagee of such termination) or if this Agreement is rejected or disaffirmed pursuant to any bankruptcy Law or proceeding or other similar Law or proceedings affecting creditors' rights generally with respect to a bankruptcy proceeding relating to the Concessionaire or otherwise, the University agrees to enter into a new concession and lease agreement of the Utility System with the Leasehold Mortgagee (or its designee or nominee, provided that such designee or nominee either is controlled by the Leasehold Mortgagee (or by the holders of the Leasehold Mortgage Debt)) or is Approved by the University as Transferee under Section 17.1) for the remainder of the original stated Term upon all of the covenants, agreements, terms, provisions and limitations of this Agreement, without any charge, penalty, assessment or consideration not specifically

provided for in this Section 19.5 (the “New Agreement”), effective as of the date of such termination, but only on and subject to the satisfaction of all of the following requirements and conditions: (i) such Leasehold Mortgagee commits in writing to the University, in a notice delivered to the University, within 30 Days after the University delivers the termination notice to Leasehold Mortgagee (or, if later, upon the termination of any cure period granted to the Leasehold Mortgagee pursuant to Section 19.3) or within 30 Days after the effective date of such rejection or disaffirmance, as the case may be, that the Leasehold Mortgagee (or its designee or nominee) will enter into the New Agreement, which notice is accompanied by a copy of such New Agreement, duly executed and acknowledged by the Leasehold Mortgagee (or its designee or nominee); (ii) the Leasehold Mortgagee (or its designee or nominee) pays or causes to be paid to the University, at the time of the execution and delivery of the New Agreement, all amounts which, at the time of the execution and delivery thereof, would have been past-due or due and payable in accordance with the provisions of this Agreement but for such termination; (iii) provided the University furnishes a statement or invoice for such costs the Leasehold Mortgagee pays or causes to be paid to the University all reasonable costs and expenses (including legal fees), Taxes, fees, charges and disbursements paid or incurred by the University in connection with such Concessionaire Defaults and termination, the recovery of possession from the Concessionaire, and in connection with the preparation, execution and delivery of the New Agreement and related agreements and documents specified in such statement or invoice; and (iv) such Leasehold Mortgagee (or its designee or nominee), at the time of such written request, cures all Concessionaire Defaults under this Agreement (curable by the payment of money) existing immediately prior to the termination of this Agreement, or, if such Concessionaire Defaults cannot be cured by the payment of money, such Leasehold Mortgagee (or its designee or nominee) commits to the University in the New Agreement to proceed both promptly and diligently, upon the execution of the New Agreement, to cure all such other Concessionaire Defaults to the extent such Concessionaire Defaults are capable of cure by a Person other than the original Concessionaire and, if possession is necessary in order to cure such other Concessionaire Defaults, to proceed both promptly and diligently to obtain the possession required to cure any such other Concessionaire Defaults (and such cure shall be a covenant in the New Agreement).

- (b) Nothing contained in this Section 19.5 shall be deemed to limit or affect the University’s interests in and to such Utility System upon the expiration of the Term of the New Agreement. The provisions of this Section 19.5 shall survive the termination of this Agreement and shall continue in full force and effect thereafter to the same extent as if this Section 19.5 were a separate and independent contract made by the University, the Concessionaire and the Leasehold Mortgagee and, if the Leasehold Mortgagee satisfies the conditions to execute a New Agreement, from the effective date of such termination of this Agreement to the date of execution and delivery of the New Agreement, the Leasehold Mortgagee may use and enjoy the leasehold estate created by this

Agreement without hindrance by the University, but only on and subject to the terms and provisions of this Agreement.

- (c) If the circumstances described in Section 19.5(a) occur, and the University determines, based on the written legal advice of counsel, that termination of this Agreement and the entry into a New Agreement by and among the University and the Leasehold Mortgagee could violate applicable provisions of the Laws of the State of Iowa governing procurement by the University then, in lieu of entering in a New Agreement and in satisfaction of its obligations under this Section 19.5, the University agrees to enter into an Assignment and Assumption Agreement pursuant to Section 19.8.

Section 19.6. Recognition of Leasehold Mortgagee. If there is more than one Leasehold Mortgagee, only that Leasehold Mortgagee (who, for the avoidance of doubt, may act on behalf of one or more lender groups as contemplated by Section 19.1), to the exclusion of all other Leasehold Mortgagees, whose notice was earliest received by the University pursuant to the Leasehold Mortgagee Notice Requirements, shall have the right to exercise the rights as a Leasehold Mortgagee under this Article 19 vis-à-vis the University, unless such Leasehold Mortgagee has designated in writing another Leasehold Mortgagee to exercise such rights in which case the other Leasehold Mortgagee may exercise such rights, provided that such requirement shall not limit such additional Leasehold Mortgagees' rights hereunder. Such Leasehold Mortgagee may act as agent for a group or syndicate of one or more Institutional Lenders and such Leasehold Mortgagee and Institutional Lenders may freely assign or sell interests and/or participations in the loans to any other Institutional Lender.

Section 19.7. University's Right to Purchase Leasehold Mortgages.

- (a) If any default by the Concessionaire has occurred under a Leasehold Mortgage and has not been cured within applicable cure periods, or any act, condition or event has occurred which would permit a Leasehold Mortgagee to declare all or part of the indebtedness secured by a Leasehold Mortgage to be immediately due and payable (or, in the case of a Leasehold Mortgage that is a lease, to terminate the lease), then the University shall have 30 Days after the date on which such Leasehold Mortgagee shall serve notice upon the University in writing ("Leasehold Mortgagee's Notice") that such Leasehold Mortgagee intends to commence proceedings to foreclose the Leasehold Mortgage or, in the case of a Leasehold Mortgage that is a Lessor to terminate the lease with the Concessionaire (stating the calculation of the purchase price pursuant to Section 19.7(c)), during which 30-Day period the University shall have the right and option (the "University's Option") to purchase from all Leasehold Mortgagees their Leasehold Mortgages, upon the terms and subject to the conditions contained in this Section 19.7.
- (b) The University's Option shall be exercised by notice served upon the Concessionaire and all Leasehold Mortgagees within such 30-Day period. If the University's Option is duly and timely exercised, the University shall purchase and all Leasehold Mortgagees shall assign their Leasehold Mortgages to the

University (or its designee) on the date which is 60 Days after the date on which a Leasehold Mortgagee's Notice is served upon the University. The closing shall take place at a mutually convenient time and place.

- (c) The purchase price payable by the University shall be equal to the aggregate amounts secured by such Leasehold Mortgages (including principal, interest, fees, premiums, Breakage Costs and other costs, expenses (including attorneys' fees) and any other amounts secured thereby) as of the closing date of the purchase. The purchase price shall be paid in full in cash at closing by wire transfer or other immediately available funds. The purchase price shall be paid by the University to each respective Leasehold Mortgagee, to be applied by the Leasehold Mortgagee to the amounts secured by the Leasehold Mortgage owed to such Leasehold Mortgagee, subject to the priorities of lien of such Leasehold Mortgages.
- (d) At the closing and upon payment in full of the purchase price each Leasehold Mortgagee shall assign its Leasehold Mortgage to the University, together with any security interest held by it in the Concessionaire Interest, without recourse, representations, covenants or warranties of any kind, provided that such Leasehold Mortgages and security interests shall be deemed modified to secure the amount of the aggregate purchase price paid by the University to all Leasehold Mortgagees (rather than the indebtedness theretofore secured thereby) payable on demand, with interest and upon the other items referred to in this Section 19.7(d). Each such assignment shall be in form for recordation or filing, as the case may be. The University shall be responsible for paying any Taxes payable to any Governmental Authority upon such assignment. Such assignment shall be made subject to such state of title of the Utility System as shall exist at the date of exercise of the University's Option.
- (e) Any Leasehold Mortgage shall contain an agreement of the Leasehold Mortgagee to be bound by the provisions of this Section 19.7, and the University shall have the right to receive all notices of default under any Leasehold Mortgage.

Section 19.8. Assignment and Assumption Agreement.

- (a) The provisions of this Section 19.8 shall be in effect whenever either (i) the University has made the determination contemplated by Section 19.5(c) or (ii) the University, with the written consent of the Leasehold Mortgagee, has determined to proceed under this Section 19.8 in lieu of under Section 19.5.
- (b) Without prejudice to the rights of a Leasehold Mortgagee under Section 19.3, if either (i) the University has given a notice of termination of this Agreement due to Concessionaire Default pursuant to Section 16.1(b), or (ii) this Agreement is rejected or disaffirmed pursuant to any bankruptcy Law or proceeding or other similar Law or proceedings affecting creditors' rights generally with respect to a bankruptcy proceeding relating to the Concessionaire or otherwise, the

University agrees to cooperate with a Leasehold Mortgagee in order to effectuate such Leasehold Mortgagee's rights under the Leasehold Mortgage to step-in, assume or assign this Agreement, in accordance with the procedures, terms and conditions of this Section 19.8 without any charge, penalty, assessment or consideration not specifically provided for in this Section 19.8.

- (c) Upon notification and satisfaction of all of the conditions and requirements in Section 19.8(d), the University agrees that this Agreement shall not be deemed terminated, but may be assumed by a Leasehold Mortgagee or by a designee or nominee of such Leasehold Mortgagee who is either controlled by the Leasehold Mortgagee (or by the holders of the Leasehold Mortgage Debt) or is Approved by the University as a Transferee under Section 17.1, for the remainder of the original stated Term of this Agreement, and as evidence of such assignment and assumption the University agrees to execute an amended and restated concession and lease agreement for the Utility System upon all of the covenants, agreements, terms, provisions and limitations of this Agreement (the "Assignment and Assumption Agreement").
- (d) This Agreement may be so assigned and assumed pursuant to an Assignment and Assumption Agreement upon and subject to satisfaction of all of the following requirements and conditions:
 - (i) Such Leasehold Mortgagee must commit in writing to the University, in a notice delivered to the University within the later of 30 Days after the University delivers the termination notice to Leasehold Mortgagee or upon the termination of any cure period granted to such Leasehold Mortgagee pursuant to Section 19.3, or within 30 Days after the effective date of any rejection or disaffirmance of this Agreement in a bankruptcy proceeding, as the case may be, that such Leasehold Mortgagee (or its designee or nominee) will assume this Agreement and enter into the Assignment and Assumption Agreement, which notice is accompanied by a copy of such Assignment and Assumption Agreement duly executed and acknowledged by such Leasehold Mortgagee (or its designee or nominee).
 - (ii) Such Leasehold Mortgagee (or its designee or nominee) shall pay or cause to be paid to the University, at the time that the Assignment and Assumption Agreement is fully executed, all amounts which, at the time of the execution and delivery thereof, would have been past-due or due and payable in accordance with the provisions of this Agreement.
 - (iii) Such Leasehold Mortgagee (or its designee or nominee) shall pay or cause to be paid to the University all reasonable costs and expenses (including legal fees), Taxes, fees, charges and disbursements paid or incurred by the University in connection with such defaults and notice of termination, the recovery of possession from the Concessionaire, and in connection with the preparation, execution and delivery of the Assignment and Assumption Agreement and related agreements and documents. The University shall

provide an invoice to such Leasehold Mortgagee of such costs, and the Leasehold Mortgagee or its designee or nominee shall pay such invoiced costs within 5 Days of the receipt of such invoice.

- (iv) Such Leasehold Mortgagee (or its designee or nominee), at the time of the notice provided under Section 19.8(d)(i), shall cure all Concessionaire Defaults under this Agreement (including all such Concessionaire Defaults curable by the payment of money) existing immediately prior to the notice of termination issued pursuant to Section 16.1(b), or, if such Concessionaire Defaults cannot be cured by the payment of money, such Leasehold Mortgagee (or its designee or nominee) shall commit to the University in the Assignment and Assumption Agreement to proceed both promptly and diligently, upon the execution of the Assignment and Assumption Agreement, to cure all such other defaults to the extent such defaults are capable of cure by a Person other than the original Concessionaire and, if possession is necessary in order to cure such other Concessionaire Defaults, to proceed both promptly and diligently to obtain the possession required to cure any such other defaults (and such obligation to cure shall be a covenant in the Assignment and Assumption Agreement).
- (e) If a Leasehold Mortgagee gives the University a notice as provided in Section 19.8(d)(i), the University and Leasehold Mortgagee agree to cooperate with respect to taking any appropriate actions required to regain and transfer possession of the Utility System and the Utility System Assets, including (i) seeking surrender of possession in any bankruptcy proceedings; (ii) seeking relief from any automatic stay in bankruptcy provisions and pursuit of state law remedies to obtain possession and to foreclose on the Leasehold Mortgage interest and assume the Concessionaire's position as provided in Section 19.4 of this Agreement; provided that any costs incurred by the University under this provision shall be reimbursed by the Leasehold Mortgagee (or its designee or nominee) as provided in Section 19.8(d)(iii).

Section 19.9. Right to Dispute Resolution. In each case specified in this Agreement in which resort to dispute resolution is authorized, a Leasehold Mortgagee shall have the right and privilege if an event of default under the Leasehold Mortgage then exists and notice has been given to the University as contemplated by Section 19.1(f), in the Concessionaire's name, place and stead, to obtain and participate in such dispute resolution upon notice to the University in accordance with Article 18; provided that the Leasehold Mortgagee agrees to be bound by the outcome of the dispute resolution process.

ARTICLE 20 MISCELLANEOUS

Section 20.1. Notice. All notices by the Concessionaire or the University, approvals or consents by the Concessionaire, and Approvals by the University (each, a "Notice") required or permitted by this Agreement shall be in writing, shall state specifically that they are being given

pursuant to this Agreement and shall be delivered by facsimile (with hard copy sent via mail), email, nationally recognized overnight courier service, or certified or registered mail (return receipt requested and postage prepaid) for the attention of the persons and to the addresses, fax numbers or email addresses shown below (or such other persons, address, fax numbers or email addresses as either Party may from time to time designate by a Notice to the other):

(a) in the case of the University:

(i) for delivery by mail or fax:

University of Iowa
Office of the Senior Vice President for Finance and Operations
105 Jessup Hall
Iowa City, Iowa 52242-1316
Attention: Rod Lehnertz
Fax: (319) 353-2069

With a copy to:

University of Iowa
Office of the General Counsel
120 Jessup Hall
Iowa City, Iowa 52242-1316
Fax: (319) 335-2830

(ii) for delivery by email:

Rod Lehnertz
Email: rodney-lehnertz@uiowa.edu

With a copy to:

Office of the General Counsel
Email: general-counsel@uiowa.edu

(b) in the case of the Concessionaire:

(i) for delivery by mail or fax:

University of Iowa Energy Collaborative LLC
c/o ENGIE Hawkeye Holdings LLC
1990 Post Oak Blvd., Suite 1900
Houston, Texas 77056
Attention: André Canguçu
Fax: (713) 636-1364

With a copy to:

University of Iowa Collaborative LLC
c/o Meridiam Hawkeye, LLC
605 Third Avenue, 36th Floor, New York, NY, 10158
Attention: John Dionisio
Fax: (212) 798-8690

With a copy to:

Allen & Overy LLP
1221 Avenue of the Americas
New York, New York 10020
Attention: Kent Rowey
Fax: (212) 610-6399

(ii) for delivery by email:

André Canguçu
Email: andre.cangucu@engie.com

With a copy to:

John Dionisio
Email: hawkeye@meridiam.com

A Notice shall be deemed to have been sent and received (i) on the Day it is delivered, or if such Day is not a Business Day or if the Notice is received after ordinary office hours (time of place of receipt), the Notice shall be deemed to have been sent and received on the next Business Day, or (ii) on the 4th Business Day after mailing if sent by U.S. registered or certified mail. Each Party shall use commercially reasonable efforts to deliver an electronic copy of each Notice provided by mail or fax in accordance with the foregoing via email to the persons and email addresses designated pursuant to the foregoing to receive Notices provided by email.

All communications other than Notices that are required or permitted by this Agreement shall be in writing, shall state specifically that they are being given pursuant to this Agreement and shall be delivered by email to the persons and email addresses shown below (or such other persons or email addresses as either Party may from time to time designate by a Notice to the other):

(x) in the case of the University:

Rod Lehnertz
Email: rodney-lehnertz@uiowa.edu

(y) in the case of the Concessionaire:

André Canguçu
Email: andre.cangucu@engie.com

With a copy to:

John Dionisio

Email: hawkeye@meridiam.com

Section 20.2. Entire Agreement. This Agreement constitutes the entire agreement between the Parties pertaining to the subject matter hereof and supersedes all prior agreements, negotiations, discussions and understandings, written or oral, between the Parties. There are no representations, warranties, conditions or other agreements, whether direct or collateral, or express or implied, that form part of or affect this Agreement, or that induced any Party to enter into this Agreement or on which reliance is placed by any Party, except as specifically set forth in this Agreement. The Parties acknowledge and agree that (i) each has substantial business experience and is fully acquainted with the provisions of this Agreement, (ii) the provisions and language of this Agreement have been fully negotiated and (iii) no provision of this Agreement shall be construed in favor of any Party or against any Party by reason of such provision of this Agreement having been drafted on behalf of one Party rather than the other.

Section 20.3. Amendment. This Agreement may be amended, changed or supplemented only by a written agreement signed by the Parties.

Section 20.4. Waiver of Rights. Any waiver of, or consent to depart from, the requirements of any provision of this Agreement shall be effective only if it is in writing and signed by the Party giving it, and only in the specific instance and for the specific purpose for which it has been given. No failure on the part of any Party to exercise, and no delay in exercising, any right under this Agreement shall operate as a waiver of such right. No single or partial exercise of any such right shall preclude any other or further exercise of such right or the exercise of any other right.

Section 20.5. Severability. Each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by applicable Law. The invalidity of any one or more phrases, sentences, clauses or sections contained in this Agreement shall not affect the remaining portions of this Agreement or any part thereof. If any provision of this Agreement or the application thereof to any Person or circumstance is held or deemed to be or determined to be invalid, inoperative or unenforceable in any particular case in any particular jurisdiction or jurisdictions because it conflicts with any other provision or provisions hereof or of any applicable Law, or public policy, or for any other reason, (i) such circumstance shall not have the effect of rendering the provision in question inoperative or unenforceable in any other case or circumstance, or rendering any other provision or provisions herein contained invalid, inoperative or unenforceable to any extent whatever, and (ii) the Parties shall negotiate in good faith to amend this Agreement to implement the provisions set forth herein. If the Parties cannot agree on an appropriate amendment, either Party may refer the matter for determination pursuant to the dispute resolution procedure in Article 18. If, by means of the dispute resolution procedure, the Parties are unable, as a result of applicable Law, to resolve the matter in a manner that effectively entitles the University to have the same rights after the aforesaid determination of invalidity or unenforceability as before, the University shall have the right to enact, and cause to come into force, any Law to provide for the same or substantially the same rights as were determined to be invalid or unenforceable.

Section 20.6. Governing Law; Waiver of Jury Trial. This Agreement shall be governed by, and interpreted and enforced in accordance with, the Laws in force in the State of Iowa (excluding any conflict of laws rule or principle which might refer such interpretation to the Laws of another jurisdiction). **EACH OF THE PARTIES HEREBY IRREVOCABLY WAIVES ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATED TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY.**

Section 20.7. Submission to Jurisdiction. Subject to Article 18, any action or proceeding against any Party relating in any way to this Agreement may be brought and enforced in the state courts in the State of Iowa in Johnson County, and each of the Concessionaire and the University hereby irrevocably submits to the jurisdiction of such courts with regard to any such action or proceeding, and irrevocably waives, to the fullest extent permitted by applicable Law, any objection it may have now or hereafter have to the laying of venue of any such action or proceeding in such courts and any claim that any such action or proceeding brought in any such court has been brought in an inconvenient forum. Service of process on the University may be made, either by registered or certified mail addressed as provided for in Section 20.1. Service of process on the Concessionaire may be made either by registered or certified mail addressed as provided for in Section 20.1 or by delivery to the Concessionaire's registered agent for service of process in the State of Iowa. If the Concessionaire is presented with a request for Documents by any administrative agency or with a subpoena duces tecum regarding any Documents which may be in its possession by reason of this Agreement, the Concessionaire, unless prohibited by Law, shall give prompt notice to the University. The University may contest such process by any means available to it before such Documents are submitted to a court or other third party; provided, however, that the Concessionaire shall not be obligated to withhold such delivery beyond that time as may be ordered by the court or administrative agency or required by Law, unless the subpoena or request is quashed or the time to produce is otherwise extended.

Section 20.8. Further Acts. The Parties shall do or cause to be done all such further acts and things as may be reasonably necessary or desirable to give full effect to this Agreement. Without limiting the foregoing, each Party will, at any time and from time to time, execute and deliver or cause to be executed and delivered such further instruments and assurances and take such further actions as may be reasonably requested by the other Party in order to cure any defect in the execution and/or delivery of this Agreement.

Section 20.9. Costs. Except as otherwise provided in this Agreement, each Party shall be responsible for its own costs and expenses incurred in connection with performing and observing its obligations and covenants under this Agreement.

Section 20.10. Interest. Any amount payable under this Agreement and not paid when due shall bear interest at a variable nominal rate per annum equal on each Day to the Bank Rate then in effect, from the date such payment is due until payment and both before and after judgment.

Section 20.11. Inurement and Binding Effect. This Agreement shall inure to the benefit of the Parties and their respective permitted successors and assigns and is binding upon the Parties and their respective successors and assigns.

Section 20.12. No Partnership or Third Party Beneficiaries. Except as expressly provided herein to the contrary, nothing contained in this Agreement shall constitute or be deemed to create a partnership, joint venture or principal and agent relationship between the University and the Concessionaire, nor shall any term or provision hereof be construed in any way to grant, convey or create any rights or interests to any Person not a party to this Agreement, other than, in the case of Section 3.11, Section 10.2, Section 12.3, Section 13.4, Section 14.2, Section 16.3, Section 17.1, Section 17.2 and Article 19, any Leasehold Mortgagee.

Section 20.13. Cumulative Remedies. The rights, remedies, powers and privileges herein provided are cumulative and not exclusive of any rights, remedies, powers and privileges provided by Law, except for the remedies available to the University for a breach of the Performance Standards or a KPI Event, which shall be limited to those expressly set forth herein. Notwithstanding the foregoing, where this Agreement provides for liquidated damages, such liquidated damages shall be the sole exclusive remedy of the University or the Concessionaire, as applicable, and the University and the Concessionaire hereby irrevocably waive any right to assert a claim against the other party based on a legal theory that a remedy provided herein for such breach or act triggering the liquidated damages fails of its essential purpose.

Section 20.14. Counterparts; Facsimile Execution. This Agreement may be executed in any number of counterparts which, taken together, shall constitute one and the same agreement. This Agreement shall be effective when it has been executed by each Party and delivered to both Parties. To evidence the fact that it has executed this Agreement, a Party may send a copy of its executed counterpart to the other Party by facsimile transmission. Such Party shall be deemed to have executed and delivered this Agreement on the date it sent such facsimile transmission. In such event, such Party shall forthwith deliver to the other Party an original counterpart of this Agreement executed by such Party.

Section 20.15. Time of the Essence. Time is of the essence for this Agreement.

(Intentionally Left Blank)

IN WITNESS WHEREOF, the University, the BOR and the Concessionaire have caused this Agreement to be signed by their respective officers thereunto duly authorized as of the date first written above.

UNIVERSITY OF IOWA

BY: _____

PRINTED: J. Bruce Harreld

ITS: President

BOARD OF REGENTS, STATE OF IOWA

BY: _____
PRINTED: Dr. Michael Richards
ITS: President, Board of Regents, State of Iowa

UNIVERSITY OF IOWA ENERGY
COLLABORATIVE LLC, a Delaware limited
liability company

BY: _____
PRINTED: André Canguçu
ITS: Authorized Agent A

BY: _____
PRINTED: Romain Limouzin
ITS: Authorized Agent B

SCHEDULE 1

FORM OF BOARD RESOLUTION

AUTHORIZATION OF THE LONG-TERM LEASE AND CONCESSION AGREEMENT FOR THE UNIVERSITY OF IOWA UTILITY SYSTEM

Synopsis: Authorization of that certain Long-Term Lease and Concession Agreement for the University of Iowa Utility System, including authorization of the lessee and concessionaire thereunder, performance of all obligations thereunder and execution and delivery of documents in connection therewith, is proposed.

WHEREAS, the University of Iowa (the “University”) has a long-term commitment to sustainability and the reduction of its impact on the environment, and the State of Iowa Board of Regents (the “Board”) and the President of the University (the “President”) believe the Concession Agreement (as defined below), which imposes certain sustainability obligations on the lessee and concessionaire thereunder, is a critical component of that commitment and will enable the University to improve its utility infrastructure for the benefit of all community stakeholders while realizing value to support the University’s mission through a substantial up-front payment by the Concessionaire (as defined below) and academic collaboration between the Concessionaire and the University; and

WHEREAS, the University intends to place the up-front payment, less the costs of the transaction, including defeasance of the utility system bonds, into an endowment that will create substantial academic benefits for its students, faculty and staff; and

WHEREAS, the University intends to create a three-member board that will provide oversight for the newly created fund; and

WHEREAS, (a) a bidding process with respect to the Concession Agreement was established pursuant to a Third Amended and Restated Request for Proposal Submission Process Letter dated as of October 23, 2019 (as amended and supplemented by the University, the “RFP”), and conducted by the University (such process, the “Bidding Process”) and (b) four (4) bids from such Bidding Process were received for consideration; and

WHEREAS, University of Iowa Energy Collaborative LLC the “Concessionaire”), which is ultimately owned by ENGIE Hawkeye Holdings, LLC and Meridiam Hawkeye Energy, LLC submitted a bid in response to the RFP with an upfront payment amount of \$1,165,000,000 on Schedule 2 of the RFP in accordance with the terms thereof, in a form satisfactory to the University; and

WHEREAS, the President established a project team with shared governance representatives to investigate the benefits of engaging in a P3, the team worked throughout the past year with consultants, reviewed the responses to the RFP and made a recommendation to the President, the Senior Vice President of the University (the “SVPFO”) and the Chief Financial Officer of the University (the “CFO”) that the Concessionaire was the preferred bidder; and

WHEREAS, it is proposed that the University and the Board enter into a Long-Term Lease and Concession Agreement for the University of Iowa Utility System (the “Concession Agreement”) with the Concessionaire, on substantially the same terms and conditions described in the docket memorandum provided to the Board in connection with the request for authorization of the Concession Agreement (the “Concession Agreement Docket Summary”); and

NOW THEREFORE, BE IT RESOLVED, that the Board hereby determines that it is in the best interests of the Board and the University to each enter into the Concession Agreement with the Concessionaire and the Related Documents (as defined below), to perform each of its respective obligations arising under, or in connection with, the Concession Agreement and the Related Documents, including, but not limited to, the University’s obligation to make the payment of the Utility Fee (as defined in the Concession Agreement) on a monthly basis (collectively, the “Transaction Obligations”), and to otherwise consummate the transactions contemplated thereby (the “Transaction”); and

BE IT FURTHER RESOLVED, that the Board has reviewed the Bidding Process and accepts the recommendation of the President to select the Concessionaire as the concessionaire under the Concession Agreement; and

BE IT FURTHER RESOLVED, that the Board hereby authorizes the University (1) to enter into the Concession Agreement with the Board and the Concessionaire and into any other documents and agreements that the President and CFO (“University Authorized Officers”), or either of them, deem necessary, advisable or appropriate in connection with the Concession Agreement (including, without limitation, the Memorandum of Lease (as defined in the Concession Agreement)), and one or more consent agreements and estoppel certificates contemplated by the Concession Agreement for the benefit of the Leasehold Mortgagee (as defined in the Concession Agreement)) (collectively, the “Related Documents”), such University Authorized Officer’s execution thereof to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof, and (2) to take such actions as any University Authorized Officer deems necessary, advisable or appropriate to perform the University’s Transaction Obligations and to otherwise consummate the Transaction, such actions not to be materially inconsistent with the terms of the Concession Agreement Docket Summary, such University Authorized Officer’s taking of such action to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof; and

BE IT FURTHER RESOLVED, that the Board hereby authorizes and directs the University Authorized Officers, or either of them, upon consultation with the President of the Board, the University’s Vice President for Legal Affairs and General Counsel, any outside counsel or advisors retained for this purpose and such other members of the senior leadership of the University that any University Authorized Officer deems necessary, advisable or appropriate, subject to the terms, limitations and conditions prescribed in this resolution, (1) to negotiate, execute, acknowledge and deliver the Concession Agreement and any Related Document on such terms as any University Authorized Officer deems necessary, advisable or appropriate, such terms not to be materially inconsistent with the Concession Agreement Docket Summary, with such University Authorized Officer’s execution thereof to be conclusive evidence of such

approval and determination of the necessity, advisability or appropriateness thereof, and (2) to take such actions as any University Authorized Officer deems necessary, advisable or appropriate to perform the University's Transaction Obligations and to otherwise consummate the Transaction, such action not to be materially inconsistent with the terms of the Concession Agreement Docket Summary, with such University Authorized Officer's taking of such action to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof; and

BE IT FURTHER RESOLVED, that the Board hereby authorizes (1) its entry into the Concession Agreement with the Concessionaire and into any other documents and agreements that the President, Board of Regents, State of Iowa ("BOR Authorized Officer"), deems necessary, advisable or appropriate in connection with the Concession Agreement (including, without limitation, the Related Documents), such BOR Authorized Officer's execution thereof to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof, and (2) taking such actions as any BOR Authorized Officer deems necessary, advisable or appropriate to perform the BOR's Transaction Obligations and to otherwise consummate the Transaction, such actions not to be materially inconsistent with the terms of the Concession Agreement Docket Summary, the BOR Authorized Officer's taking of such action to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof; and

BE IT FURTHER RESOLVED, that the Board hereby authorizes and directs the BOR Authorized Officer, upon consultation with the Board's Counsel, any outside counsel or advisors retained for this purpose and such other members of the senior leadership of the University that the BOR Authorized Officer deems necessary, advisable or appropriate, subject to the terms, limitations and conditions prescribed in this resolution, (1) to negotiate, execute, acknowledge and deliver the Concession Agreement and any Related Document on such terms as the BOR Authorized Officer deems necessary, advisable or appropriate, such terms not to be materially inconsistent with the Concession Agreement Docket Summary, with the BOR Authorized Officer's execution thereof to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof, and (2) to take such actions as the BOR Authorized Officer deems necessary, advisable or appropriate to perform the BOR's Transaction Obligations and to otherwise consummate the Transaction, such action not to be materially inconsistent with the terms of the Concession Agreement Docket Summary, with the BOR Authorized Officer's taking of such action to be conclusive evidence of such approval and determination of the necessity, advisability or appropriateness thereof; and

BE IT FURTHER RESOLVED, that the Board hereby authorizes the CFO to serve as the Senior Official (as defined in the Concession Agreement); and

BE IT FURTHER RESOLVED, that this resolution shall take effect and be in force immediately upon its adoption.

SCHEDULE 2
PERFORMANCE STANDARDS

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Part I - GENERAL

Introduction and Purpose of Performance Standards

These Performance Standards and any Appendices thereto, are provided pursuant to Article 6 of the Long-Term Lease and Concession Agreement for the University of Iowa Utility System (as modified, amended or restated, the “Concession Agreement”) to which they are attached. The Performance Standards and Appendices are incorporated and made part of the obligations under the Concession Agreement.

The Utility System is comprised of 7 individual Utilities, specifically the: (i) the portion of the Utility System that generates, distributes and returns chilled water (the “Chilled Water System”); (ii) the portion of the Utility System that generates, distributes and returns steam, hot water, and condensate (the “Steam and Condensate System”); (iii) the portion of the Utility System that distributes domestic water and operates under the following system identification numbers with the Iowa Department of Natural Resources: IA5200982 and IA5225101 (the “Domestic Water System”); (iv) the portion of the Utility System that produces and distributes electricity (the “Electric System”); (v) the portion of the Utility System that removes storm water (the “Storm Water System”); (vi) the portion of the Utility System that removes sanitary sewage (the “Sanitary Sewer System”); and (vii) the portion of the Utility System that produces and distributes compressed air (the “Compressed Air System”). The purpose of the Performance Standards is to: (A) provide the minimum general requirements for the operations and maintenance of the University’s Utility System and provide standards governing Utility System Operations as required by the Concession Agreement and are not inclusive of all of the Concessionaire’s responsibilities; (B) aid in the development of an Operations Plan (as defined herein) to be developed annually by the Concessionaire for the Utility System; (C) incentivize the Concessionaire to minimize the time during which the Utility System experiences outages and (D) ensure that the Utility System is operated and maintained in accordance with Prudent Industry Practices.

Terms used and not otherwise defined in these Performance Standards shall have the meanings ascribed to them in the Concession Agreement (and any other schedules attached thereto). Any approvals or consent required under these Performance Standards shall be governed by the procedure outlined in Section 1.15 of the Concession Agreement. Unless otherwise stated herein or in the Concession Agreement, any modification or change to the requirements set forth in these Performance Standards or Appendices thereto, shall be governed by Section 6.3 of the Concession Agreement. Any references to a governmental entity, industry standard organization or University department shall include any successor to such entity, organization or department. Any references to “degrees” shall, unless otherwise specified herein, mean “degrees Fahrenheit.” To the extent that any term or provision specified herein conflicts with any term or provision of the Concession Agreement, the Concession Agreement shall govern.

The Concessionaire shall perform all duties and tasks and all other responsibilities required by these Performance Standards in conformance with Prudent Industry Practices, and the Concessionaire shall keep the Utility System in good condition and repair throughout the Term of the Concession Agreement. If the Concessionaire fails to meet these Performance Standards, it shall be subject to the procedures in the Concession Agreement for addressing such failures.

If deficiencies or situations affecting minimum standards for performance develop during the Term that are not specifically noted herein, it is the Concessionaire's responsibility to correct the deficiencies and manage such situations such that the Utility System will be maintained in the condition required by these Performance Standards.

Part II - PERFORMANCE STANDARDS – GENERAL OPERATIONS

1) General

- a) The Concessionaire shall propose a plan with respect to the Utility System in accordance with these Performance Standards and the Concession Agreement (the “Operations Plan”). The Operations Plan shall include and satisfy at a minimum, all requirements and all components of the Performance Standards and Prudent Industry Practices and shall include, in addition to the specific requirements set forth herein, the following: (1) operation, repair, maintenance and replacement of the Utility Facilities and Utility System Assets; (2) any proposed or expected changes to the environmental permitting requirements or classifications of any portion of the Utility System for the upcoming 5 years, of which the Concessionaire has knowledge, (3) any proposed or expected requirements related to regulatory changes affecting the Utility System, of which the Concessionaire has knowledge; (4) the 1 year short term list of goals and expectations for the Utility System operations and 5 year list of strategic goals therefor as described in Section 1(d); (5) a detailed staffing plan, as described in Section 9(b); (6) the Building Emergency Action Plan; (7) the Continuity Management Plan; (8) a maintenance management program, as described in Section 1(e); and (9) the Operator’s standard hourly and fixed rates for performing services for the University and its Representatives that are not part of Utility System Operations, which shall be reasonable and consistent with the University’s past practice, taking into account changes in the cost of supplies, materials and labor (the “**Concessionaire Charge Rates**”). The Concessionaire shall submit such Operations Plan to the University for its review within 180 days after Closing and as further required herein. The University will review the Operations Plan and where appropriate, will provide comments for Concessionaire’s consideration. The Concessionaire shall perform all components of the Operations Plan. The Operations Plan shall cover each Fiscal Year. The Utility System must have an appropriate maintenance and repair program/plan to provide a safe and satisfactory level of service and to maximize Utility System service life in accordance with these Performance Standards. To the extent that any term or provision of the Operations Plan conflicts with any term or provision of these Performance Standards, the Performance Standards shall govern.
- b) All operations, repairs, replacement and maintenance activities shall be carried out in a good and workmanlike manner so as to ensure continuous safety for users of the Utility System and to sustain the value of the Utility System as an asset. Condition assessments and inspections shall follow Prudent Industry Practices and recognized national standards as set forth herein. If the University elects, at its sole cost and expense, to perform, or cause to be performed by a qualified engineering firm, any such assessment or inspection, then the Concessionaire covenants to address any failures to operate, repair or maintain the Utility System in accordance with these Performance Standards and the Concession Agreement, noted therein as promptly as reasonably practicable, and the Concessionaire shall

reasonably cooperate with the University and any qualified engineering firm engaged by the University.

- c) The Concessionaire must update and submit its Operations Plan for the upcoming Fiscal Year to the University no later than 90 days prior to the beginning of each Fiscal Year. The University will review and if necessary, comment on the Operations Plan. The Concessionaire shall submit an updated Operations Plan for the start of each Fiscal Year, which may be based on the prior Fiscal Year's Operations Plan. If the Concessionaire fails in its obligation to submit an Operations Plan by the commencement of such Fiscal Year, the Operations Plan for the preceding Fiscal Year shall remain in place until an updated Operations Plan is submitted. Notwithstanding the above, any proposals subject to University Approval as part of the Concessionaire's Five Year Plan, must comply with Articles 4 and 7 of the Concession Agreement.
- d) The Operations Plan shall specify how the Concessionaire has considered, trained, addressed, and planned for all operational, repair, maintenance and replacement activities in connection with the Utility System and has established protocols, procedures, responsibilities, and minimum requirements to operate, repair, maintain and replace the Utility System in accordance with these Performance Standards and the Concession Agreement and Prudent Industry Practices. The Concessionaire shall provide a list of goals for the Fiscal Year as part of the Operations Plan to indicate focus areas aligned with the above.
- e) As part of the Operations Plan, the Concessionaire shall include a maintenance management program for the Utility System. The maintenance management program shall, at a minimum, meet Prudent Industry Practices and shall include procedures and records for asset management that include equipment criticality identification/documentation, inspection and testing plans, PM and PdM (each as defined herein), maintenance workflow including work prioritization based on equipment criticality, planned outages, continuous improvement teams, and records management. Generally, the asset management program will be implemented in the AiM CMMS system for the Utility System or utilize a maintenance management system of its own choosing if the cost of such system is Approved by the University as part of the Five-Year Plan. The Concessionaire shall indicate any major changes to the maintenance workflow in the prior Fiscal Year as well as planned improvements and/or changes aligned with provided goals in the Operations Plan.
- f) The Concessionaire shall maintain records related to its maintenance and operation of the Utility System in accordance with Section 3.12 of the Concession Agreement. The records regarding maintenance of the Utility System required to be retained by the Concessionaire shall include the following:
 - i. Status of Utility System Assets with disposition of breakdowns, deteriorating conditions, failure to start, significant decrease in capacity or performance (> 5%);

- ii. Total maintenance spend for the Fiscal Year for the repair costs and labor hours for each individual Utility and the individual work orders associated therewith;
 - iii. Usage of each Supply by commodity and Supply spend corresponding to each commodity, reported monthly compared to the expected usage and spend for the current Fiscal Year in the current Five-Year Plan and including a reasonably detailed explanation for any variation therefrom;
 - iv. Changes in staffing levels and the reasons therefor;
 - v. Any changes to the Utility System or Utility System Operations required or made due to environmental and regulatory changes required by Law or applicable Governmental Agency;
 - vi. One, three and five-year projection of life expectancies of equipment that would be considered Capital Improvements based upon maintenance performed and manufacturer's recommendations;
 - vii. Boiler inspection plans;
 - viii. State of Iowa Certificate(s) for boilers;
 - ix. Annual inspections required by the Occupational Safety and Health Administration ("OSHA") for all cranes and hoists; and
 - x. The Preventive Maintenance data specified in Section II.1.(k) of these Performance Standards.
- g) The Concessionaire shall include in its Operations Plan a proposed plan for its expenditures to extend the useful life of any and all components of the Utility System, including planned replacements or any additions thereto. The proposed plan shall include any major system or specific equipment improvements planned for the next Fiscal Year, as well as indicate changes to existing environmental permitting requirements that may be needed to implement the improvements.
- h) Currently, maintenance activities are managed through AiM CMMS (by Asset Works). The Concessionaire shall either continue to use the AiM CMMS system for the Utility System and for any requests made pursuant to Section 1(k) by the University or utilize a maintenance management system of its own choosing if the cost of such system is Approved by the University as part of the Five-Year Plan (a "CMMS").
- i) Maintenance Workflow
- i. The Concessionaire shall establish a new, or utilize the existing, maintenance workflow process to identify, prioritize, approve, execute,

and document completion for all work. The maintenance workflow process shall align with the CMMS.

- ii. The Concessionaire shall maintain an asset list with documented criticality in the CMMS.
- iii. The Concessionaire shall train all personnel on utilization of the maintenance workflow described herein including work order generation, backlog reviews, work prioritization, outage management, schedule development, and work completion. The following defines the type of work orders:
 - 1. “Corrective Maintenance” is defined as the specific maintenance actions performed on Utility System Assets or Utility Facilities (or a portion thereof), in the event that a Utility System Asset’s or a Utility Facility’s current condition is below the required standards as identified by a Preventive Maintenance, Predictive Maintenance, or technician observation. The Concessionaire shall provide the Corrective Maintenance necessary to maintain the Utility System in good condition and repair and otherwise in accordance with Prudent Industry Practices.
 - 2. “Emergency Maintenance” is defined as the maintenance necessary to restore operation to equipment, systems, or components in the Utility System that have failed to operate as required.
 - 3. The Concessionaire shall perform all Emergency Maintenance as promptly as possible within time limits agreed to by the Parties and if applicable, adhere to the Unplanned Outage (as defined herein) requirements set forth herein.
- iv. The Concessionaire shall develop or maintain Preventive Maintenance and Predictive Maintenance (each as defined herein) plans based on equipment criticality, in accordance with Prudent Industry Practices, including applicable operations and maintenance best practices industry manuals and shall include those plans in the Operations Plan.
 - 1. “Preventive Maintenance” or “PM” is defined as maintenance and/or inspections on a Utility System Asset or a Utility Facility or a portion thereof based on a pre-determined schedule or run time to reduce the probability of failure. A Corrective Maintenance work order shall be written to address any findings from a Preventive Maintenance task.
 - 2. “Predictive Maintenance” or “PdM” is defined as the tests performed on a Utility System Asset or a Utility Facility or a portion thereof to determine current condition and remaining life to

reduce the probability of failure. A Corrective Maintenance work order shall be written to address any findings from a Predictive Maintenance task.

- v. The Concessionaire shall perform PM and PdM in accordance with the plans included in the Operations Plan. The Concessionaire shall keep records and track PM and PdM completion against planned schedules. The Concessionaire shall develop a process for the Concessionaire to internally approve any delay of any PM and PdM plans for a Fiscal Year as soon as reasonably practicable after execution of the Concession Agreement and shall include a plan to address operational risks. The process for approving any such delay, the approval of any such delay and the results of each such test shall be recorded in accordance with the Record Retention Policy. The Concessionaire shall promptly provide the University with Notice of any critical equipment PM and PdM plans that are incomplete in accordance with the terms of such plans.
- j) In order to properly assist the University in the comprehensive planning for, efficient management of, effective repair of, and controlled access to, the public ways on the University Campus and to lessen the public inconvenience of uncoordinated work in the Public Way while promoting the general public health, safety, and welfare, the Concessionaire shall adhere to any University or municipality policies, including the Safety, Health and Environment Policy attached as Appendix T, provided that, with respect to other University policies, the University has provided the Concessionaire with written notice thereof.
- k) Upon request of the University, the Concessionaire shall perform such services for which the Concessionaire has a Concessionaire Charge Rate as requested by the University that are outside of the Utility Services and the Utility System Operations, in which case the University shall pay to the Concessionaire the cost therefor by payment of the applicable Concessionaire Charge Rate within 30 Days after receipt of an invoice therefor. Consistent with Iowa Code, Section 8A.514 (3), unpaid invoices may be charged interest at the statutory rate of no more than 1% per month on unpaid amounts beginning sixty (60) days from the applicable invoice due date.
- l) The Concessionaire shall cause the Utility System to consume Supplies in a manner consistent with the Approved Five-Year Plan, and the University may direct the Concessionaire to consume Supplies in a particular manner upon Notice to the Concessionaire provided that if such direction (i) is materially inconsistent with the Approved Five-Year Plan, (ii) materially and adversely affects Utility System Operations (including the Concessionaire's ability to comply with Prudent Industry Practices or its other obligations under the Concession Agreement) or (iii) causes the Concessionaire to incur materially more Capped O&M Costs, which could not be reasonably avoided, then such direction shall be considered a University Directive if the Concessionaire provides the University with notice as soon as reasonably practicable after receipt of the University's direction.

2) Exterior Appearance of Utility Facilities

- a) The Concessionaire shall maintain the exterior appearance of Utility Facilities in accordance with the University's design standards applicable to the University of Iowa, provided in Appendix F, as may be updated from time to time (the "Design Standards"). Changes to the exterior appearances of Utility Facilities, including but not limited to the color and lighting of such Utility Facilities and any signage thereon, shall require prior Approval of the University.

3) Utility Marking, GIS Mapping and Asset Management

- a) The Concessionaire shall provide utility marking of the Utility System in accordance with applicable Law and Prudent Industry Practices. The utility marking process shall include:
 - i. Support design activities during project planning and development;
 - ii. Provide pre-excavation marking for all construction and maintenance projects;
 - iii. Provide line locating and elevation during installation of new equipment; and
 - iv. Contact "Iowa One Call" for marking of buried Utility System distribution assets before commencing digging activity.
- b) The Concessionaire shall provide mapping updates to reflect modifications to the existing Geographic Information System ("GIS") for the Utility System including mapping of all Utility System Assets that are abandoned and not removed during the Term. Such information and updates shall be provided in a format and include details as requested by the University.
 - i. The Concessionaire shall reasonably cooperate with the University in connection with the GIS, which contains information regarding both Utility Facilities as well as other facilities which are not part of the Utility System, in connection with any changes, updates or modifications to the Utility System.
- c) The Concessionaire shall be responsible for providing updates for the GIS to the University in a timely manner to accurately depict the state of the existing Utility System. Within 10 Business Days after any change to the state of the existing Utility System, the Concessionaire shall provide to the University the information necessary for the University to update the GIS for the Utility System due to any material change including addition, modification, repair, or abandonment of any portion of the Utility System. For purposes of providing updates for changes to the Utility System due to construction activities, a 'change' shall be deemed to occur when the improvement being constructed is deemed 'substantially complete' and or becomes actively employed in delivering Utility Services.

- d) The Concessionaire shall provide regular mapping update information to the University's team for the Utility System GIS (as designated by the University to the Concessionaire), to include surface feature updates and repairs and non-material changes, every 6 months.

4) Safety

- a) The Concessionaire shall develop and adhere to safety and security standards in performing Utility System Operations which standards, at a minimum, meet Prudent Industry Practices. The Concessionaire shall develop and document policies and procedures to ensure the security and safety of the Utility System that, at a minimum, shall be consistent with Prudent Industry Practices and, with respect to the Utility Network, current policies or procedures provided in Appendix C (See also Part II, Section 5(a)). Such policies and procedures shall be included or referenced in the Operations Plan.
 - i. In addition, the electrical safety program shall be in compliance with all applicable Laws, including standards established by OSHA as well as the National Fire Protection Association ("NFPA") (NFPA 70E), including applicable training and qualifications programs.
- b) The Concessionaire shall maintain the security of the Tunnels in compliance with the requirements listed in Appendix U. In addition, the Concessionaire shall coordinate with the University's Department of Public Safety and local law enforcement, as appropriate. Where Tunnel access occurs through a University building, management of security must be coordinated with appropriate University departments, including University of Iowa Hospitals and Clinics ("UIHC"), Key and Access Services, Facilities Management, Athletics, Housing and Dining and Parking & Transportation, and must otherwise be in accordance with the Concession Agreement.
- c) The Concessionaire shall secure the industrial control systems within the Utility System in accordance with Prudent Industry Practices and University policy then in effect.
- d) The Concessionaire shall promptly notify the University's Department of Public Safety and local law enforcement upon learning of suspected or alleged criminal activity concerning the Utility System.
- e) The Concessionaire shall abide by all regulations of the University's Department of Public Safety.
- f) The University's Department of Public Safety shall have access at all times (24-hours a day, seven days a week) to all plants, buildings and any other Utility Facilities on the University Campus which are required to be maintained by the Concessionaire.

- g) The Concessionaire shall be responsible for ensuring that safety security alarms, including fire alarms which are part of the Utility System, are directly tied to the life and safety systems of the University.
- h) Except as otherwise provided in Concession Agreement, Concessionaire shall ensure that any and all cameras installed by Concessionaire in Utility Facilities shall provide a direct feed to the University's security office, use the University's network and meet the University's specifications for video surveillance as described in Appendix A.
- i) All Utility Facilities on the University Campus shall be subject to inspection by University Fire Protection and the Department of Public Safety, provided that, except in the case of an Emergency, the University Fire Protection and the Department of Public Safety shall provide prior written notice of such inspection.
- j) The Concessionaire shall adhere to any and all applicable policies, practices and procedures set forth by the University, including the University's Safety, Health and Environment Policies attached at Appendix T.
- k) As part of the Concessionaire's obligation to comply with all Laws, the Concessionaire shall comply with all OSHA requirements including but not limited to, safety training programs and injury reporting and logs.

5) Emergency Response and Unplanned Outages

- a) The Concessionaire shall follow all current Utility Outage Procedures and Emergency Response Plans with respect to the Utility Network referenced in Appendix C.
- b) The Concessionaire shall provide personnel to support all procedures and activities required by the University during an Emergency and or failure of the Utility System or any portion thereof which failure had not previously been approved by the University (each, an "Unplanned Outage"), as described in more detail for each Utility as set forth in Parts III through X hereof, in order to provide the required Utility Services.
- c) During an Unplanned Outage, the Concessionaire shall work cooperatively with the University until Utility Services are restored. During any Unplanned Outage, the Concessionaire shall follow all communication procedures for an Emergency and all applicable Emergency response plans provided by the University, including working with a representative contact designated by the Assistant Vice President for External Relations (hereinafter referred to as the "Communications Contact"). The Concessionaire shall provide status updates as soon as possible after any Emergency or Unplanned Outage to designated University contacts using the communication medium designated by the University.

- d) The Concessionaire shall adhere to the procedures and requirements for an Unplanned Outage set forth in these Performance Standards for each individual component of the Utility System.
- e) The Concessionaire shall designate a representative to participate in the University's Critical Incident Management Team (the "CIMT"), which representative shall:
 - i. Attend meetings at the reasonable request of the University;
 - ii. Obtain training required by the University; and
 - iii. Assist in coordination with the University to respond during Emergencies.
- f) The Concessionaire shall adhere to a priority list as established by the University for restoration of the Utility System following an Unplanned Outage. Any such update shall not be considered a modification to these Performance Standards subject to Section 6.3 of the Concession Agreement.
- g) During any Unplanned Outage, the Concessionaire shall send prompt updates to the CIMT and the designated Communications Contact, if activated, in addition to the procedures and requirements for an Unplanned Outage set forth in these Performance Standards for each individual component of the Utility System.
- h) At least 48 hours before (i) any visit by a head of state or political dignitary, (ii) any significant political event, (iii) any home football game, (iv) move-in week for fall semester on the Main Campus, (v) finals week for fall semester and spring semester for the Main Campus (the exact dates of which shall be available on the University's website), (vi) graduation ceremonies or (vii) any other event which the University provides advance written notice of to the Concessionaire (each, a "Major Event"), the Concessionaire shall:
 - i. Prepare a response plan for an Unplanned Outage, in accordance with the University's then-existing mechanical and Electric System access and response practices and the procedures described in Appendix C (the "Utility Outage Procedures") and promptly implement such plan as necessary; and
 - ii. Provide a subject matter expert as a resource to the University's Strategic Communications Department and the CIMT before and during such Major Event.
- i) If Concessionaire is not provided with advance notice of a Major Event sufficient to comply with the deadline set forth in Section 5(h), above, Concessionaire shall provide the listed information as soon as practicable following notification of any Major Event. If a Major Event recurs during a Fiscal Year, e.g., home football games, then the Concessionaire's responsibility shall be to provide Utility Outage Procedures and the subject matter expert for those Major Events, as a group, and

the Concessionaire shall not be responsible for submitting separate information for each such Major Event within that group, unless the University so requests.

- j) In the event an Unplanned Outage impacts the University Campus, the Concessionaire shall, at the University's request, provide a subject matter expert as a resource to the University's Strategic Communications Department for the duration of the need arising from the Unplanned Outage.
- k) Promptly following any Unplanned Outage, and in any event within 15 Business Days thereafter, the Concessionaire shall provide to the University a report on such Unplanned Outage, which shall include a reasonably detailed summary of the Unplanned Outage, including the apparent cause, and the corrective actions taken with respect thereto. As soon as reasonably practical thereafter, but in any event within 60 Days after the Unplanned Outage, the Concessionaire shall provide the University with a root cause analysis of the Unplanned Outage and any recommended changes in operations or Capital Improvements that the Concessionaire recommends to prevent future, similar Unplanned Outages.
- l) Appendix H is a list of all facilities and buildings on the University Campus and identifies if one or more of the following departments would be affected by an Unplanned Outage at that facility or building: UIHC; University Housing and Dining Department; University Athletics Department; University Parking & Transportation Department; and Carver College of Medicine, which list the Concessionaire shall use in determining which department, if any, needs to be called as part of an Unplanned Outage. The University may, by written notice to the Concessionaire, update Appendix H, and such change shall not be considered a modification of these Performance Standards for purposes of Section 6.3 of the Concession Agreement.

6) Procedures for Planned Outages

- a) The Concessionaire shall follow the Utility Outage Procedures for requirements for communicating a planned outage of the Utility System (a "Planned Outage") to the parties identified in Appendix C. Failure to adhere to such requirements shall cause any outage of any part of the Utility System to be deemed an Unplanned Outage. In addition to the requirements set forth in the Utility Outage Procedures, the Concessionaire shall provide notice of such Planned Outage at least 10 Business Days before the Planned Outage.
- b) Prior to a Planned Outage, the Concessionaire shall consult with the University to determine when temporary utility sources (such as electrical generators, boilers or chillers) are necessary to maintain building operations, and the Concessionaire shall provide such temporary utility sources as agreed with the University.
- c) The Concessionaire shall coordinate the restoration of Utility Services following a Planned Outage with the University.

7) Design Standards

- a) The Concessionaire shall follow the Design Standards for all portions of the Utility System, unless (i) otherwise provided for herein, (ii) the Utility System does not, as of the Closing Date, comply with the Design Standards and then only with respect to such non-compliance or (iii) Approved by the University, provided that the University shall be reasonable in granting its Approval to a deviation from the Design Standards that is consistent with other deviations to the Design Standards already existing with respect to the Utility System. The Concessionaire shall develop and document design standards for the Utility System or deviations from the existing Design Standards, which shall include proposed pipe velocity standards for the Chilled Water System, and shall submit them for Approval to the University within 1 Year after the Closing Date. The University shall review such proposal and respond, either approving or disapproving such submission within 60 Days after receipt thereof. If the University so disapproves, it shall provide a reasonably detailed explanation as to the reasons therefor, and the Concessionaire shall resubmit a revised submission addressing such reasons. Once such submission (or re-submission) is Approved by the University, it shall be included in the Design Standards and apply to the Utility System. Future changes to those Design Standards for the Utility System shall be Approved by the University before adoption.
- b) The University retains the right to modify or update the Design Standards or (to the extent that such Design Standards relate to the Utility System) direct the Concessionaire to do so, which modification or update shall be deemed a modification of these Performance Standards under Section 6.3(a) of the Concession Agreement. The Concessionaire shall participate in and provide input on periodic updates to the Design Standards and shall provide proposed changes if requested by the University.

8) Material and Equipment Management

- a) The Concessionaire shall procure all necessary equipment and materials to properly operate the Utility System. Such equipment and material shall be appropriate for its use and, at a minimum, meet Prudent Industry Practices.
- b) The Concessionaire shall include in its Operations Plan its plan for materials management; which shall include:
 - i. A process for procuring materials for the operation of the Utility System;
 - ii. A process for maintaining adequate inventory levels to account for Planned Outages and Unplanned Outages;
 - iii. A plan for maintenance of Concessionaire's storage facilities;
 - iv. A method for staging materials; and

- v. Minimum levels of certain materials identified as critical by the Concessionaire, below which the Concessionaire shall reorder such materials.
- c) In all events, the Concessionaire shall purchase materials and equipment for use in the Utility System that are:
 - i. Fit and serviceable for the intended purpose and free of defects;
 - ii. UL-listed, if applicable at the time of purchase;
 - iii. Of the type and quality typically used in Comparable Utility Systems.

9) Personnel, Operations and Reporting

- a) Whenever the Concessionaire is required to utilize a qualified engineer, such engineer shall be subject to the University's prior Approval. The Concessionaire shall have the right to provide a list of qualified engineers to the University on an annual basis for the University's approval. The Concessionaire shall then be permitted to utilize any engineer on such list.
- b) As part of its Operations Plan, the Concessionaire shall provide a high-level staffing plan, which shall include, at a minimum:
 - i. Organizational chart(s);
 - ii. Any changes to shift planning for normal operations;
 - iii. Emergency response staffing and communications contact who is designated to work with the University "Concessionaire Communications Contact;"
 - iv. New position descriptions;
 - v. Screenings / testing, which the Concessionaire shall provide to the University promptly after receipt thereof;
 - vi. High-level training and employee development plan;
 - vii. Employee credentials, licenses and other certifications;
 - viii. Diversity and inclusion;
 - ix. Rates of pay;
 - x. Overtime policies and practices for all employees; and

- xi. One year and five-year plans for staffing level increases or decreases, including organizational charts indicating the areas of staff addition or reduction.
- c) As part of its Operations Plan, the Concessionaire shall include a plan for providing personnel coverage during an Emergency, for both a short-term and long-term closure of the University. Such plan shall include a list of employees designated as serving in “essential,” “alternate,” or “standby” status during an Emergency, and identify the Concessionaire Communications Contact, for both short-term and long-term closures. The Concessionaire’s Emergency staffing and designations shall conform with then-current University policies for Emergency preparedness and for short-term and long-term closures.
- d) Within 10 days after the end of each month, the Concessionaire shall provide the Utility System operating efficiency metrics as outlined in Appendix G.
- e) Unless information is required earlier for meeting required compliance reporting and the University has provided the Concessionaire with prior notice thereof, within 60 Days after the end of a Fiscal Year, the Concessionaire shall provide information to the University regarding the operations of the Utility System, including:
 - i. Supply mix and average cost of each Supply over the past Fiscal Year;
 - ii. The results of the chemical, water treatment, and pre-treatment plans;
 - iii. Environmental and regulatory compliance;
 - iv. The implementation of safety programs;
 - v. The effectiveness of utility data systems and IT network security;
 - vi. Plant operating procedures;
 - vii. Peak Utility System loads and percentage of installed capacity; and
 - viii. Utility System operating efficiency metrics as outlined in Appendix G.
- f) The Concessionaire shall support project design reviews for campus projects requiring utility services support and new utility connection planning, design and construction inspections.
- g) The Concessionaire shall plan and execute hot work and energized electrical equipment testing with respect to the Electric System per applicable safety standards including NFPA 70E.
- h) The Concessionaire shall develop and conduct electrical power system studies including load demand, short circuit, electrical coordination, and OSHA arc flash

utilizing SKM software (or equivalent) and in compliance with all applicable IEEE standards. The Concessionaire will maintain University Campus SKM (or equivalent) arc flash modeling, incorporating facility and building studies as they are conducted and made available by the University. The Concessionaire will provide utility point of interconnection fault current data to the University promptly after receipt of written notice from the University.

- i) The Concessionaire shall maintain Pipe-Flo and load models at or above the level existing as of the Closing Date or develop mutually acceptable alternative models for the steam portion of the Main Campus Steam and Condensate System that is designed for pressures of at least 120 psi and the Chilled Water System. The Concessionaire shall maintain Bentley's WaterGEMS CONNECT Edition Update 1 models at or above the level existing as of the Closing Date or develop mutually acceptable alternative models for the Domestic Water System.
- j) The Concessionaire shall comply with the Utility Service Connection and Inspection Standards provided in the Design Standards.

10) Environmental

- a) In operating the Utility System, the Concessionaire shall comply with applicable Environmental Laws, all Authorizations related thereto (including all Campus-Wide Permits) and any and all environmental or sustainability standards, policies or procedures adopted by the University and communicated to the Concessionaire.
- b) The Concessionaire shall instruct its employees and employees of the Operator to conduct all operation, repair, maintenance and replacement work in a manner so as to minimize exposure to Hazardous Substances. The Concessionaire shall notify the University of any planned activity that may disturb building materials containing Hazardous Substances and may require special handling pursuant to applicable Environmental Laws. If advance notice is not practicable, the Concessionaire shall notify the University as soon possible after encountering building materials containing Hazardous Substances on or in the vicinity of the Utility System, and shall cease any activity which would disturb or further disturb hazardous building materials until after Concessionaire has notified and consulted with the University regarding proper handling of such material. If the Concessionaire, in the course of its operation, repair, maintenance or replacement activities, creates a hazardous condition by disturbing or otherwise altering building materials containing Hazardous Substances, the Concessionaire shall manage such Hazardous Substance in accordance with all applicable Environmental Laws and in compliance with University policies and programs including the Asbestos Management Program set forth in Appendix D.
- c) If the Concessionaire encounters or disturbs any Hazardous Substances in the course of its operations for which the University has retained liability pursuant to Section 3.2(d) of the Concession Agreement, the Concessionaire shall notify the

University and shall work with the University to facilitate any University action deemed necessary to comply with applicable Environmental Laws. In any case, Concessionaire shall take measures to avoid causing, exacerbating, or contributing to any hazardous condition or any Release of a Hazardous Substance encountered in the course of its operations. Further, whenever the Concessionaire becomes aware of any Release of a reportable quantity of a Hazardous Substance, the Concessionaire must comply with the notice requirements set forth in Section 8.1(b) of the Concession Agreement.

- d) The Concessionaire shall be responsible for managing and remediating Hazardous Substances Released or encountered in the course of operations of the Utility System, including those in the Storm Water System, in accordance with all applicable Environmental Laws but only to the extent that such Hazardous Substances are associated with environmental conditions created or caused by Concessionaire after the Time of Closing or such obligations are not otherwise considered to be excluded from liabilities and obligations of Concessionaire pursuant to Section 3.1(d) of the Concession Agreement. In such case, Concessionaire shall notify and coordinate with the University before taking any non-emergency action to address a Release of a Hazardous Substance and shall include the University in any correspondence with regulatory officials regarding the management and remediation of the Hazardous Substance. If the University becomes aware of any Release or presence of Hazardous Substances in the Storm Water System, it shall promptly notify the Concessionaire, and the Concessionaire shall remediate such Hazardous Substances in accordance herewith.
- e) In addition to the obligations set forth in Section 11.13 of the Concession Agreement pertaining to the Campus-Wide Permits, the Concessionaire shall be responsible for completing and filing with the University all environmental reports and for environmental recordkeeping and monitoring pertaining to the operation of the Utility System as required by the University or as may be required under applicable Environmental Laws. In connection therewith, the Concessionaire shall provide a courtesy copy of any report or filing submitted to a Governmental Authority by the Concessionaire or the Operator with respect to the Utility System related to Hazardous Substances or Environmental Laws within 10 Business Days after such report or filing is submitted.
- f) As part of its obligations under Section 3.12(a) of the Concession Agreement, the Concessionaire shall provide all necessary related operational and environmental data to the University for inclusion in campus-wide regulatory environmental reports and required records.
- g) The Concessionaire shall develop and implement the following plans/programs as required by applicable Environmental Laws:
 - i. Spill Prevention Control, and Countermeasure Plan (“SPCC Plan”);

- ii. Storm water management plan which complies with applicable National Pollutant Discharge Elimination System rules and University requirements, including the University's Municipal Separate Storm Sewer System (MS4) permit;
 - iii. Petroleum storage and tank management program including inspections; and
 - iv. Refrigerant leak monitoring, reporting, and corrective action.
- h) Hazardous Substances
 - i. The Concessionaire shall not be allowed to use, dispose, treat or store any Hazardous Substances, other than those used in its ordinary course of operations, without written consent by the University.
 - ii. The Concessionaire shall manage all wastes resulting from its operations in accordance with applicable Environmental Laws. All applications, certifications and notifications required for the generation, storage and disposal of Hazardous Substances are the responsibility of the Concessionaire.
- i) Wastewater
 - i. Industrial discharge from operation of the Utility System shall meet the requirements of all Laws, including Environmental Laws and any directives provided by a Governmental Authority.
 - ii. Wastewater discharge permits and wastewater discharge operating requirements shall be the responsibility of the Concessionaire.
 - iii. Preapproval from the applicable Governmental Agency for any discharges from the Sanitary Sewer System to the applicable municipal sewer system shall be the responsibility of the Concessionaire.
- j) The Concessionaire shall be responsible for evaluation, recycling and/or disposing of waste generated in the course of Utility System Operations, in compliance with applicable Environmental Laws and in alignment with University policies.
- k) Environmental Emergency
 - i. In the event that the Concessionaire has become aware of a Release of Hazardous Substances into the environment due to Utility System Operations, the Concessionaire shall immediately notify the University and the appropriate Governmental Authority in accordance with applicable Laws and applicable University policy.

- ii. The Concessionaire shall also take immediate steps to remediate any release of Hazardous Substances and to minimize further Release of Hazardous Substances into the environment.
- l) Construction in Flood Plain. Concessionaire shall be responsible for obtaining (on its own behalf or on behalf of the University, as applicable) any required Flood Plain Permits from the US Army Corps of Engineers and Iowa Department of Natural Resources via the Joint Application process for the Utility System (including any Capital Improvements or Material Changes) and the Utility Facilities, and shall adhere to all requirements from permits issued by those authorities. The Concessionaire shall reasonably cooperate with the University for obtaining any required Flood Plain Permits from the US Army Corps of Engineers and Iowa Department of Natural Resources via the Joint Application process for property outside of the Utility System and the Utility Facilities (or involving a combination of property within and outside the Utility System and the Utility Facilities).
- m) Chemical Inventory. The Concessionaire shall be responsible for complying with the Emergency Planning and Community Right-to-Know Act (EPCRA) with respect to the Utility System Operations and the Utility System including all relevant chemical inventories and reporting requirements.
- n) Air Construction Permits. If the Concessionaire undertakes any work that requires an air construction permit from the Iowa Department of Natural Resources, it shall provide the University all required materials to be submitted with respect thereto, including any application fees (the cost of which are Capped O&M Costs), and the University shall have the right to review and Approve or disapprove such application within 10 Business Days. If Approved, the University shall submit such application.
- o) If in connection with any Authorizations, including the Campus-Wide Permits, any fees or charges are incurred with respect to the Utility System or the Utility System Operations, the Concessionaire shall pay such amounts to the University within 10 Business Days after request, and the cost thereof may be considered a Capped O&M Cost. With respect to the Title V Permit, the Concessionaire shall pay a pro-rated amount based on the emissions from the Utility System compared to the emissions made by the University, as determined by the University acting reasonably. Notwithstanding the foregoing, to the extent that any fee, charge, penalty or other amount is payable in connection with any Authorization due to a failure to comply with a specified limit or other condition of such Authorization, the Concessionaire shall only be liable to pay a portion of such amount to the extent that its actions contributed to such failure.
- p) Underground Storage Tanks. Neither the Concessionaire nor the Operator will install any underground storage tanks on the Utility System Land or anywhere on the University Campus without the Approval of the University, which may be withheld in its sole discretion.

11) Utility Office Functions

The Concessionaire shall establish an office of the Utility System (the “Utility Office”), which shall be staffed by the Utility System Operator personnel and shall have a head of the Utility Office which shall serve as the lead of the Utility Office.

- a) The Utility Office is the primary point of contact for the University regarding information on the Utility System and Utility System Operations, including Planned Outages, Unplanned Outages, general campus information and event-specific information related to the Utility Facilities and Utility Services.

12) Interagency Coordination

- a) The Concessionaire is required to cooperate with any and all local, state and federal governmental, regulatory and law enforcement agencies.
- b) The Concessionaire’s required cooperation may include, but not be limited to:
 - i. Providing access to the Utility Facilities;
 - ii. Closing Utility Facilities for public safety purposes;
 - iii. Disconnecting Utility Services or a portion thereof due to an Emergency or law enforcement situation;
 - iv. Providing access to information contained in any surveillance system;
 - v. Attending planning and operational meetings;
 - vi. Providing a representative in the CIMT in the event of a large-scale or critical situation that involves any aspect of the Utility Facilities or the Concessionaire’s responsibilities; or
 - vii. Any other action that is deemed necessary to ensure public safety.

13) University Department Office Cooperation

- a) The Concessionaire will work collaboratively with departments, offices or other entities of the University for efficient, safe and effective Utility System Operations pursuant to the Concession Agreement and these Performance Standards or as may reasonably requested from time to time by the University.
- b) The Concessionaire’s involvement with these departments as it relates to the Utility System may include, but not be limited to:
 - i. Participation in appropriate campus planning meetings including working with the University to coordinate responses to media or other inquiries;

- ii. Coordination of information and logistical activities to ensure customer utility needs are met;
- iii. Coordination between Concessionaire construction projects and other construction activities being conducted by the University;
- iv. Participation on work teams to plan impacts under numerous scenarios related to planned and unplanned events;
- v. Campus Emergency coordination;
- vi. On- and off-campus construction; and
- vii. Working with University stakeholders to execute plans.

14) Public Relations and Media Interactions

- a) The Concessionaire shall have procedures in place for working with the University and also for interacting with the University community, to the extent requested by the University. All communications about the Utility System directed to the University Campus constituents, or other University stakeholders must be coordinated with and Approved by the University. The Concessionaire shall work with the designated University Communications Contact.
- b) The Concessionaire shall work with the University administration to engage the University community and media before, during and after any material event impacting or involving the Utility System or Utility Service, which plan shall be implemented following Approval by the University.
- c) The Concessionaire may be contacted by members of the University community and media regarding information pertaining to the Utility System or Utility Service, and the Concessionaire shall, at the University's option, either provide a referral to the appropriate entity (which may include a designated University representative) or a knowledgeable individual to respond directly to the University community and media. The University reserves the right to take any and all action necessary to ensure effective communication.

15) Service Vehicle Use and Operation

The Concessionaire will be permitted to utilize service vehicles to facilitate the operations of the Utility System. Because the Concessionaire's service vehicles will also represent the image and character of the University, the following guidelines must be followed for the use of service vehicles:

- a) The Concessionaire must ensure such service vehicles are in good operating condition and must maintain a sufficient inventory of service vehicles to meet the obligations of the Concessionaire at all times.

- b) The Concessionaire shall be responsible for ensuring the safe operation of all service vehicles.
- c) Insurance must be secured and maintained in accordance with the Concession Agreement.
- d) All service vehicles utilized by the Concessionaire must be clean, safe and regularly maintained to ensure safe operation.
- e) The vehicle body must be relatively free from damage. If damage occurs, it must be repaired within a reasonable period of time.
- f) Annual safety inspections must be performed.
- g) All vehicles in use must have a cumulative fleet MPG average which meets applicable Federal fuel-efficiency standards, and must otherwise comply with all Laws and applicable University sustainability standards.
- h) All service vehicles will be clearly identified and bear uniform markings on both sides of the vehicle. These include, but are not limited to:
 - i. Company name; and
 - ii. Vehicle (fleet) number located on the rear of each vehicle.
- i) The Concessionaire shall develop and implement service vehicle user requirements and procedures including, but not limited to, the following:
 - i. Employees must be properly trained on proper and safe use of service vehicles;
 - ii. The Concessionaire must provide standards and procedures for screening service vehicle drivers and maintaining driver records;
 - iii. Service vehicle operators shall not permit unauthorized passengers to utilize the service vehicles at any time; and
 - iv. The Concessionaire shall report all service vehicle accidents on University property to the University within one (1) Business Day following any accident.
- j) Service vehicles are subject to all University parking regulations and procedures.
- k) Service vehicles shall be licensed and authorized to use public roads.

16) Utility Service Inquiries

- a) The Concessionaire shall establish and implement a process for recording in the existing CMMS any University questions and comments about Utility System

Operations and Utility Services (“Service Inquiries”). Service Inquiries shall be recorded as they are received. The Concessionaire shall maintain a record of Service Inquiries which shall include:

- i. Specific Utility Service referred to in each Service Inquiry;
 - ii. Details of the Service Inquiry;
 - iii. A description of actions taken by the Concessionaire in response to the Service Inquiry, including corresponding date of actions taken; and
 - iv. Details of how the Service Inquiry was resolved.
- b) The database of Service Inquiries shall be provided to the University upon request.
 - c) The Concessionaire shall respond to all non-outage related Service Inquiries within one (1) Business Day of receipt thereof and shall resolve all Service Inquiries in a timely manner.
 - d) The Concessionaire must accept and respond to University Service Inquiries and outage reports on a 24-hour basis.

17) Building Emergency Action Plan

- a) As part of its Operations Plan, the Concessionaire shall include a Building Emergency Action Plan (“BEAP”) for the emergency response for Utility Facilities in the event of an Emergency that permits staff to quickly and safely evacuate each Utility Facility or take other applicable emergency measures to protect life and property. The BEAP must be in the same format as all other University building emergency action plans and include, at a minimum, the following:
 - i. Evacuation procedures and roles;
 - ii. Evacuation routes;
 - iii. Shelter-in-place location(s);
 - iv. Emergency communications;
 - v. Training and drill schedules; and
 - vi. Emergency Utility Facility contact.
- b) The BEAP will be created in conjunction with the CM Plan, as defined below. The BEAP shall be submitted to the University office of Emergency Management, as necessary. This plan must be evaluated on an annual basis and updated as needed. The Concessionaire shall make personnel and other resources

available to conduct Emergency drills or Emergency planning required by the University as requested.

- c) The personnel training program shall include training on all Emergency activities and procedures required by Law. Documentation of enrollment and satisfactory completion shall be supplied to the University and updated at least annually.

18) Continuity Management Plan

- a) As part of the Operations Plan, the Concessionaire shall include a Continuity Management Plan (“CM Plan”) to establish procedures and protocols in relation to continuing or recovering services following an Emergency. This CM Plan must include, at a minimum, the following:
 - i. Plan overview, scope, and assumptions document;
 - ii. Response teams with named individuals assigned to each team;
 - iii. An initial call tree;
 - iv. Contact information for key team members, vendors, departments, agencies, and university stakeholders;
 - v. Initial response activities in the following categories: command/leadership, communications, HR/employee care, financials, IT, and assessment;
 - vi. A list of all Utility Services, prioritized in order of recovery, with recovery time objectives assigned to each;
 - vii. One named individual as the contact in charge of recovery and one as an alternate contact for each service;
 - viii. A description of how each service will be continued or recovered in each of the following three scenarios:
 - 1. Unavailability of majority of staff;
 - 2. Unavailability of key applications and/or equipment;
 - 3. Unavailability of the building/Utility Facility;
 - ix. List of minimally-required resources for recovery;
- b) This CM Plan will be created in conjunction with the BEAP. The Concessionaire must evaluate the CM Plan on at least an annual basis and update the CM Plan as needed.

19) Information Technology, Communications and Connectivity

- a) The Concessionaire shall work with the Office of Chief Information Officer (“OCIO”) to develop and implement appropriate interconnection protocols and security measures whenever the Concessionaire is connecting to any electronic network, communications system or other electronic media owned, operated or managed by the University or its agents.
- b) Prior to connecting to or using the University’s electronic network, communications system or other electronic media, Concessionaire shall submit to the OCIO for review, and approval all of Concessionaire’s electronic network security protocols, application security protocols, data storage protocols, access management procedures, and any other information that the OCIO determines necessary to protect the integrity and security of the University’s electronic systems and communications networks. In addition, any use of the University’s electronic network or other information systems shall be subject to the policies and requirements contained in Appendix X.
- c) The Concessionaire shall retain responsibility for installing and maintaining the separate Utilities fiber network, except the fiber connections set forth in Appendix E. The Concessionaire may lease fiber(s) or wired communications from the University, subject to agreement by the University. Any costs charged by the University for communications equipment may be included as O&M Costs or Capital Improvement costs pursuant to the terms of the Concession Agreement. The University shall provide such optical fiber and/or wired communications to the Concessionaire at the cost normally charged by the OCIO to internal University customers, but in no event will that cost be in excess of a then-current average market rate charged by local providers of materially similar services.
- d) Subject to the terms of the Concession Agreement and except as caused by the University’s negligence or willful misconduct, Concessionaire assumes all risk and agrees to indemnify, defend and hold harmless the University from any and all actions, claims, costs, demands, or suits arising out of or resulting from the Concessionaire’s connection to or use of any electronic network, communications system or other electronic media owned, operated or managed by the University or its agents.
- e) Prior to deploying or using any wireless communications within the geographic boundaries of the University, Concessionaire shall submit to the OCIO for review, approval and acceptance, a detailed description of Concessionaire’s proposed wireless communications technology and any other information that the OCIO determines necessary. If required by the OCIO, the Concessionaire will implement all reasonable measures necessary (including abatement) to protect the integrity and security of current wireless communications networks and other equipment operating at the University.

- f) Conditions and requirements for Concessionaire's use for all wired network (IP), dark fiber, cellular data, analog telephone, or 802.11 WiFi communications systems on the University Campus, including service-level agreements, security protocols and operating standards for such use are set forth in Appendix W.

Part III - PERFORMANCE STANDARDS – CHILLED WATER SYSTEM

1) Temperature Requirements

- a) The Concessionaire shall ensure that the water being supplied by the Newton Road Chilled Water Plant, the Chilled Water Plant 1, the Chilled Water Plant 2 and the Oakdale Chilled Water Plant (collectively, the “Chilled Water Plants”) is maintained (i) on the Main Campus, at a nominal temperature at or below 42 degrees year round when a Chilled Water Plant is in service, and the Concessionaire shall ensure the water being supplied by the North Chilled Water Plant is maintained between 42 and 46 degrees, at each of the monitoring points in the Utility System for the North Chilled Water Plant as identified on Appendix O, until such time as the equipment in the North Chilled Water Plant is replaced (which equipment, for the avoidance of doubt, shall be subject to the Approval of the University), at which time the water being supplied by the North Chilled Water Plant shall be maintained at the design temperature of the new equipment, as Approved by the University and (ii) on the Oakdale Campus, at a nominal temperature between 42 degrees and 46 degrees between May 1 and September 30 of each Year and between 42 degrees and 52 degrees between October 1 and April 30, in all cases, at each of the monitoring points in the Utility System for the Chilled Water Plants as identified on Appendix O.
- b) The Concessionaire shall ensure that the documented mix temperature is supplied to each Facility after the applicable interface valve for Main Campus Facilities. The appropriate temperature range shall be between 43 degrees and 48 degrees as agreed upon with the applicable University customer.

2) Pressure Requirements

- a) The Concessionaire shall ensure that the water being distributed by the Chilled Water System maintains pressure as required to maintain building chilled water interface valves in a general range between 20% and 90% open for normal operations that allows for flow control (provided that for any building on the Main Campus that operates directly from Chilled Water System pressure, building chilled water interface valves may be up to 100% open).
- b) The Concessionaire shall maintain a minimum of (i) for the Main Campus, 14 psi differential between the supply and return pressures and minimum of 60 psi supply pressure and (ii) for the Oakdale Campus, 20 psi differential between the supply and return pressures and a range of 60 to 64 psi supply pressure. For the Main Campus, a maximum of 50 psi differential shall be maintained except for periods less than 2 consecutive hours when 55 psi differential is acceptable. Each monitoring point in the Utility System for the Chilled Water Plants and the North Chilled Water is identified on Appendix O.

3) Line of Demarcation between Concessionaire and University

- a) Except as otherwise described herein, the line of demarcation for the Chilled Water System is depicted in Appendix L3. Appendix L3 serves as a representative diagram of the Chilled Water System. See also Appendix K3 for a map of the Chilled Water System.
 - i. For the Main Campus, all neutral bridge piping, interface control valves, interface meters and interface programmable logic controllers (“PLCs”) shall be considered part of the Chilled Water System; and
 - ii. For the Main Campus, any building/secondary pump, building piping, heat exchange equipment and valves downstream of the interface equipment shall not be considered part of the Chilled Water System.
 - iii. For the Oakdale Campus, anything beyond the first shut-off valve inside a building, shall not be considered part of the Chilled Water System.

4) Metering

- a) The Concessionaire shall maintain, operate and replace Chilled Water meters in accordance with the requirements outlined herein.
 - i. The Concessionaire shall ensure the meters are accurate and calibrated to the manufacturer’s recommendations.
- b) As part of the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv), the Concessionaire shall include a plan to ensure metering accuracy and a metering accountability metric for such meters that are part of the Chilled Water System. For the avoidance of doubt, the Concessionaire shall adhere to all applicable requirements with respect to meters set forth in the Design Standards attached as Appendix F.
- c) The Concessionaire shall either continue to use the existing GE Global Care, Software Toolbox (OPC) and PI OsiSoft licensed software programs that the University uses to acquire, monitor and maintain Utility consumption data within the Utility System or use metering software of its choosing, subject to the Approval of such change in the Five-Year Plan by the University. In either case, the Concessionaire shall provide the University access to view and use for billing purposes the real-time meter data at any time.
- d) The Concessionaire shall ensure electronic metering occurs at a minimum of 60 second intervals.
- e) The Concessionaire shall maintain accurate software, monthly meter data, and provide that data to the necessary University servers for use by the University for campus billing.

- f) The Concessionaire shall collaborate with construction teams for new buildings being added to the University Campus to ensure timely installation of all metering and interface equipment at the time of connection. Additionally, appropriate start-up procedures shall be followed and monitored by the Concessionaire to ensure no impact to the Chilled Water System.
- g) Plant production meters
 - i. Production meters for the Chilled Water System must be in service when equipment is operating, functioning properly and reporting to a data system readily accessible by the University. If a primary production meter fails, the associated equipment shall be shut off until the failure is resolved if the loss of meter data cannot be adequately estimated throughout the outage, and the Concessionaire shall cause such meter to be replaced or repaired as soon as reasonably practicable.
 - ii. Historical data on plant production meters shall be maintained at a minimum of 1-minute intervals and readily accessible for the University's review through the PI OsiSoft system. Data will be time stamped with the date, hour (in 24 hr. format) and minute.
 - iii. Meters shall be calibrated and maintained in accordance with the manufacturer's recommendations. The schedule for such calibration shall follow the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv).

5) Efficiency

- a) The Concessionaire shall operate the Chilled Water System plants in a manner to ensure reliability as well as optimization of energy and conservation of natural resources. The Concessionaire shall use commercially reasonable efforts to continuously improve the operating efficiency and use of resources including water for the Chilled Water System.

6) Design Standards

- a) The Concessionaire shall maintain and keep up to date an accurate Chilled Water System hydraulic model, which may be Pipe-Flo or other similar modeling software, in order to:
 - i. Inform new buildings being connected to the Chilled Water System of the design pressure drop requirements based on system hydraulic models; and
 - ii. Verify and maintain system flow velocities according to design standards.

- b) The Concessionaire shall cause the Chilled Water System to adhere to chilled water pipe velocity limits as set forth in the Design Standards, once Approved by the University in accordance with Part II, Section 7(a) hereof.
- c) Chilled Water System distribution piping installed after the Closing Date shall be direct buried.
- d) The Concessionaire shall follow the Design Standards in Appendix F.

7) **Unplanned Outage**

- a) An Unplanned Outage for the Chilled Water System shall mean the occurrence of one of the following:
 - i. For the Main Campus, chilled water supply temperature exceeds 50 degrees at any building interface supply point for 30 continuous minutes or more or supply pressure at any building interface falls below 20 psi for 30 continuous minutes as measured by the chilled water interface temperature and pressure transmitters identified on Appendix O for Chilled Water System Unplanned Outages as monitoring points, provided that it shall not be an Unplanned Outage if the supply temperature or the pressure is below those levels if the applicable University building's automation system is not requesting chilled water at that time.
 - ii. For the Oakdale Campus, chilled water supply temperature exceeds 50 degrees between May 1 and September 30 or exceeds 62 degrees between October 1 and April 30 at any building supply point for 30 continuous minutes or more or supply pressure at any building falls below 20 psi for 30 continuous minutes as measured by the chilled water temperature and pressure transmitters identified on Appendix O for Chilled Water System Unplanned Outages as monitoring points.
 - iii. Chilled water supply is interrupted to a building due to a closed or inoperable distribution valve, leakage, pipe failure, or other system failure on the chilled water distribution system; except in the case where the valve has been closed upon the request of the University.
 - iv. The Concessionaire fails to provide sufficient notice for such outage to be a Planned Outage.
- b) The Concessionaire shall notify the University by calling the FM@YourService Facilities Management Work Control phone number (which is currently (319) 335-5071 and may be updated by notice from the University to the Concessionaire (the "University Facilities Management Work Control Number") and the UIHC Director of Physical Plant by calling the phone number identified by the University (which is currently 319-356-4081 and which may be updated from time to time by notice from the University to the Concessionaire) (the "UIHC Physical Plant Number") if there is excessive chilled water loop makeup

of more than 25 gallons per minute for 5 continuous minutes or an average of 10 gallons per minute or more over a 24 hour period.

- c) If an Unplanned Outage for the Chilled Water System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Chilled Water System Unplanned Outage and restore service; unless otherwise approved by the University in its sole discretion.
- d) If operational issues occur that result in a high loop temperature event (greater than 50 degrees for 30 minutes) for the Chilled Water System, the Concessionaire shall:
 - i. Notify the University by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;
 - iii. Notify the University Housing and Dining Department by calling the phone number identified therefor by the University (which is currently 319-631-2497 and which may be updated from time to time by notice from the University to the Concessionaire) (the “UIHD Maintenance Plant Number”) if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the phone number identified therefor by the University (which is currently 319-551-9477 and which may be updated from time to time by notice from the University to the Concessionaire) (the “UI Athletics Maintenance Plant Number”) if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the phone number identified therefor by the University (which is currently 319-551-0556 and which may be updated from time to time by notice from the University to the Concessionaire) (the “UI PT Maintenance Plant Number”) if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the phone number identified therefor by the University (which is currently 319-335-8290 and which may be updated from time to time by notice from the University to the Concessionaire) (the “Carver Maintenance Plant Number”) if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action;
 - viii. Provide updates as needed based on changes in the status of the Chilled Water System (and at least daily) and as more frequently as reasonably

requested by the University to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 60 minutes or more;

- ix. If the incident is expected to exceed 60 minutes and have an impact on Critical Facilities, communicate with UI Facilities Management staff by calling the University Facilities Management Work Control Number to determine whether parameters have been met to enact the “Chilled Water Business Continuity Plan” as identified as part of the Business Continuity Plans on Appendix J (the “Chilled Water Business Continuity Plan”). If such conditions are met, as determined by the University, the Concessionaire shall enact the procedures in the Chilled Water Business Continuity Plan until it receives notice from the University.

8) Redundancy

- a) Where possible, the Concessionaire shall maintain an N+1 level of redundancy for the Utility System Assets that make up the Chilled Water System. “N+1” is defined as the ability to meet seasonal peak load assuming the largest capacity Utility System Asset of the Chilled Water System is non-functional.
- b) If the Chilled Water System is below an N+1 level of redundancy, the Concessionaire shall promptly and diligently commence active work to correct the loss of system reliability within 48 hours.
- c) The Concessionaire shall maintain existing standby generators for the Chilled Water System in accordance with manufacturers’ recommendations and Prudent Industry Practices with the rated capacity of at least the capacity in existence as of the Closing. The University has the right to increase such requirement in its reasonable discretion, which shall be deemed a modification of these Performance Standards under Section 6.3(a) of the Concession Agreement.
- d) The Concessionaire shall perform standby generator testing for existing standby generators per manufacturers’ recommendations.
- e) The Chilled Water Business Continuity Plan shall be tested annually in coordination with University Facilities Management staff. The date and time of each test shall be discussed with the University and agreed upon no less than 15 days in advance of such test.

9) Water Quality

- a) The Concessionaire shall prepare a chemical and water treatment plan, as part of the Operations Plan, which shall cover the Chilled Water System. Such plan shall cover frequency and validation of measurement and testing as well as the following items at a minimum:
 - i. Scale and corrosion;

- ii. Excessive reversion of polyphosphate to orthophosphate;
 - iii. Microbiological control;
 - iv. Copper corrosion;
 - v. Maintaining closed loop water chemistry;
 - vi. Cooling tower and condenser water:
 - 1. Scale and corrosion inhibitor;
 - 2. Bleach or other biocide;
 - 3. For the Main Campus, monitor and maintain cooling tower cycles in the range of 3 to 5 cycles as necessary to keep heat transfer services clean while minimizing water usage and for the Oakdale Campus, monitor and maintain cooling tower cycles in the range of 2 to 3 cycles as necessary to keep heat transfer services clean while minimizing water usage; and
 - 4. Legionella testing twice per Fiscal Year on six cooling tower systems, and a cooling tower in each plant must be part of such test.
- b) The Concessionaire shall comply with the Legionella Exposure Control Plan provided in Appendix I as well as risk analysis required by ASHRAE 188.
- c) The Concessionaire shall require the chilled water systems in a new building that is to be connected to the Chilled Water System to be flushed and treated to central plant standards by the building owner or construction team before connecting to the Chilled Water System.

**Part IV - PERFORMANCE STANDARDS
STEAM AND CONDENSATE SYSTEM**

1) Temperature Requirements

- a) The Concessionaire shall operate steam boilers to produce (i) for Main Campus, superheated steam between 675 and 750 degrees and (ii) for Oakdale Campus, saturated steam at 350 degrees, each as measured at each of the monitoring points in the Utility System for the Steam and Condensate System as identified on Appendix O.
- b) The Concessionaire must ensure that every building connected to the Steam and Condensate System shall receive steam with no more than 40 degrees of superheat at the building usage point temperature transmitter.
- c) The Concessionaire shall ensure that the portion of the Steam and Condensate System serving heating hot water to the Oakdale Campus shall provide heating hot water: (i) between May 1 and September 30 of each Year, at a minimum of 204 degrees supply temperature, and (ii) at all other times of the Year, at a minimum of 210 degrees supply temperature, each as measured at each of the monitoring points in the Utility System for the Steam and Condensate System as identified on Appendix O.

2) Pressure Requirements

- a) The Concessionaire shall ensure that steam (i) in the Main Campus Power Plant main headers is maintained at 500 psig measured at the appropriate header pressure transmitter and (ii) in the Oakdale Power Plant main header is maintained at 120 psig each as measured at the monitoring points in the Utility System for the Steam and Condensate System as identified on Appendix O, except in each case for such times as a lower psig would result in the same or better thermal efficiency of the steam plant.
- b) The Concessionaire shall ensure that steam pressure distributed from the Main Campus Power Plant is maintained at 155 psi and 20 psi and that steam distributed from the Oakdale Power Plant is maintained at 120 psi at the Oakdale Power Plant steam header each as measured at the monitoring points in the Utility System for the Steam and Condensate System as identified on Appendix O.
- c) The Concessionaire shall maintain the portion of the Steam and Condensate System serving heating hot water to the Oakdale Campus at a minimum of 50 psi supply pressure each as measured at the monitoring points in the Utility System for the Steam and Condensate System as identified on Appendix O.
- d) The Concessionaire shall track condensate return monthly and propose plans to return the overall condensate return for the Steam and Condensate System to 3-year historic averages if the amount of condensate return drops more than 3% below the average annual return percent for the preceding 3 years.

3) Line of Demarcation between Concessionaire and University

- a) Except as otherwise described herein, the line of demarcation for the Steam and Condensate System is depicted in Appendix L4. Appendix L4 serves as a representative diagram of the Steam and Condensate System. See also Appendix K4 for a map of the Steam and Condensate System.
 - i. All steam piping up to the pressure reducing valve within a building, including steam metering equipment and PLCs shall be considered part of the Steam and Condensate System.
 - ii. All condensate piping up to the first isolation valve within a building, including condensate metering equipment, if any, and PLCs shall be considered part of the Steam and Condensate System.
 - iii. Any building piping, heat exchange equipment and valves downstream of the first steam isolation valve within the building shall not be considered part of the Steam and Condensate System, with the exception of the UIHC complex, whose line of demarcation shall be as shown on Appendix L4.
- b) The Concessionaire shall be responsible for chemical treatment in the Utility Facilities.

4) Metering

- a) The Concessionaire shall maintain, operate and repair steam meters in accordance with the requirements set forth herein.
 - i. The Concessionaire shall ensure the meters are accurate and calibrated to the manufacturer's recommendations.
- b) As part of the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv), the Concessionaire shall include a plan to ensure metering accuracy and a metering accountability metric for such meters that are part of the Steam and Condensate System. For the avoidance of doubt, the Concessionaire shall adhere to all applicable requirements with respect to meters set forth in the Design Standards attached as Appendix F.
- c) The Concessionaire shall either continue to use the existing GE Global Care, Software Toolbox (OPC) and PI OsiSoft licensed software programs that the University uses to acquire, monitor and maintain Utility consumption data within the Utility System or use metering software of its choosing, subject to the Approval of such change in the Five-Year Plan by the University. In either case, the Concessionaire shall provide the University access to view the real-time meter data.
- d) The Concessionaire shall ensure electronic metering occurs at a minimum of 60 second intervals.

- e) The Concessionaire shall maintain accurate software, monthly meter data, and provide that data to the necessary University servers for use by the University for campus billing.
- f) The Concessionaire shall ensure that all new building connections to the Steam and Condensate System are metered at the time of connection and that those meters are networked to the Utility Network as soon as reasonably practicable in order to meet the specifications set forth herein.
- g) Plant production meters
 - i. Production meters for the Steam and Condensate System must be in service when equipment is operating, functioning properly and reporting to a data system readily accessible by the University. If a primary production meter fails, causing the Steam and Condensate System (or any portion thereof) to be unable to be operated under control, safely and effectively, the associated equipment shall be shut off until the failure is resolved, and the Concessionaire shall cause such meter to be replaced or repaired as soon as reasonably practicable.
 - ii. Historical data on plant production meters shall be maintained and readily accessible for the University's review. Raw data shall be provided to the University in a format that cannot be edited by the Concessionaire. Data will be time stamped with the date, hour (in 24 hr. format) and minute.
 - iii. Meters shall be calibrated and maintained in accordance with the manufacturer's recommendations. The schedule for such calibration shall follow the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv).

5) Efficiency

- a) The Concessionaire shall ensure that each boiler (i) on the Main Campus, maintain a boiler fuel efficiency of 77% or greater and (ii) on the Oakdale Campus, maintain a boiler fuel efficiency of 75% or greater, each based on fuel consumption and steam output measurements.
- b) The Concessionaire shall ensure that the water recovery rate from the reverse osmosis treatment system is 75% or greater.
- c) The Concessionaire shall operate the Steam and Condensate System in a manner to ensure reliability as well as optimization of energy and conservation of natural resources. The Concessionaire shall use commercially reasonable efforts to continuously improve the operating efficiency and use of resources including water for the Steam and Condensate System.

6) Design Standards

- a) The Concessionaire shall maintain and keep up to date accurate Steam and Condensate System hydraulic models for the Main Campus only, which may be Pipe-Flo or other similar modeling software, in order to:
 - i. Inform new buildings being connected to the Steam and Condensate System of the design pressure drop requirements based on system hydraulic models; and
 - ii. Verify and maintain system flow velocities.
- b) The Concessionaire shall adhere to the following pipe velocity limits for the Steam and Condensate System:
 - i. New piping for the steam portion of the Steam and Condensate System to be installed at 120 fps respectively at peak flow; and
 - ii. Existing piping that exceeds 120 feet per second (“fps”) shall require University approval prior to replacement of the piping causing the velocity that exceeds 120 fps.
- c) Steam distribution lines shall be located in a walkable Tunnel or direct buried.
- d) The Concessionaire shall follow the Utility Service Connection and Inspection Standard set forth in the Design Standards.

7) Unplanned Outage

- a) An Unplanned Outage for the Steam and Condensate System shall mean the occurrence of one of the following at the monitoring point identified on Appendix O for Steam and Condensate System Unplanned Outages:
 - i. Steam pressure at a building supply pressure transmitter is less than 5 psi for 30 consecutive minutes or more;
 - ii. Steam supply is interrupted to a building due to loss of compressed air for the building pressure reducing valve, a closed or inoperable distribution valve, leakage, pipe failure, or other system failure; except in the case where the valve has been closed upon the request of the University; or
 - iii. The Concessionaire fails to provide sufficient notice for such outage to be a Planned Outage.
- b) If an Unplanned Outage of the Steam and Condensate System occurs, which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day work, commence active work,

regardless of potential delay by others, to correct the Unplanned Outage and restore service; unless otherwise approved by the University in its sole discretion.

- c) If operational issues occur that result in a low steam pressure or high steam temperature event for the Steam and Condensate System, defined as an instance (i) where the Steam and Condensate System is providing steam at less than 5 psi for 30 minutes at a building pressure transmitter or (ii) any building connected to the Steam and Condensate System receives steam at more than 40 degrees of superheat at the building usage point temperature transmitter, the Concessionaire shall:
- i. Notify the University by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;
 - iii. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action; and
 - viii. Provide updates every 60 minutes if outdoor temperatures are below 32 degrees, and every 24 hours otherwise, to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 60 minutes or 24 hours, as applicable, based on the appropriate notification timeline or more;

8) Redundancy

- a) Where possible, the Concessionaire shall maintain an N+1 level of redundancy for the Utility System Assets that make up the Steam and Condensate System. "N+1" is defined as the ability to meet seasonal peak load assuming the largest capacity Utility System Asset of the Steam and Condensate System is non-functional.

- b) If the Steam and Condensate System is below an N+1 level of redundancy, the Concessionaire shall promptly and diligently commence active work to correct the loss of system reliability within 48 hours.
- c) The Concessionaire shall ensure that at least two out of the three steam lines to the portion of the Main Campus west of the Iowa River are always in service.
- d) Concessionaire shall include a chemical treatment plan for the Steam and Condensate System, as part of the Operations Plan. Such plan shall cover frequency and validation of measurement and shall adhere to ASME boiler water quality standards.
- e) The Concessionaire shall maintain standby generators for the Steam and Condensate System in accordance with manufacturers' recommendations and Prudent Industry Practices with the rated capacity of at least the capacity in existence as of the Closing. The University has the right to increase such requirement in its reasonable discretion, which shall be deemed a modification of these Performance Standards under Section 6.3(a) of the Concession Agreement.
- f) The Concessionaire shall perform standby generator testing per manufacturer's recommendations.
- g) Concessionaire shall also include pretreatment standards as part of the Operations Plan, which shall include standards for:
 - i. Conductivity and hardness limits from water treatment plan; and
 - ii. Oxygen removal de-aerators.
- h) Concessionaire shall adhere to American Society of Mechanical Engineers boiler water quality standards.

9) Fuel Procurement, Operations and Storage

- a) For the Main Campus only, the Concessionaire shall maintain local solid fuel Supply inventory sufficient to continue 5 days of operation at the required standards on solid Supplies, provided that if the University's then-current Supply Contracts prevent retaining such inventory, the Concessionaire shall not be in breach of this standard as a result thereof, provided it notifies the University as soon as reasonably practicable.

10) Boiler water storage

- a) The Concessionaire shall maintain a minimum of (i) 2 water storage tanks in service at any time for the Main Campus and (ii) 1 water storage tank in service at any time for the Oakdale Campus and shall maximize the amount of storage tanks in service to meet reliability requirements.

Part V - PERFORMANCE STANDARDS – ELECTRIC SYSTEM

1) Power Requirements

- a) Concessionaire shall ensure that the Electric System maintains the following at the monitoring points identified on Appendix O for the Electric System:
 - i. Substation O transformer tap changers to deliver voltage consistent with the voltage then being delivered on the Closing Date with such changes as the University may require and +6%/- 5% of nominal per current version of American National Standards Institute (“ANSI”) C84.1, or equivalent; and
 - ii. 0.95 minimum power factor at the substation buses.
- b) The Concessionaire shall design, procure, install, operate and maintain the Electric System such that it is configured for customer determined building load and requirements for reliability and redundancy.
- c) The Concessionaire shall operate and maintain the Electric System such that it meets the following power quality requirements:
 - i. For harmonic distortion, comply with University Design Standards specifying maximum distortion allowable on the Electric System from connected loads, provided that the University shall cooperate with the Concessionaire to address distortion in excess of the maximum distortion allowable on the Electric System, to the extent such distortion is introduced by a connected load; and
 - ii. For voltage sag or swell events, investigate any such event and minimize internal system disruption and take affirmative measures to reduce sensitivity of key utility components to reduce trips from minor sag and/or swell events.
- d) Notwithstanding anything to the contrary contained herein, the Concessionaire shall operate the Utility System to participate in a Main Campus curtailment program as directed by the University, and the Concessionaire shall not be in breach of any of the requirements of these Performance Standards if it operates in accordance with such curtailment.
- e) The research building power restoration plan utilizing the Main Campus Power Plant back-up engine plant shall be implemented to re-store power to Pappajohn Biomedical Discovery Building if the electrical system for that building provided by the Electrical System is out of service for more than 1 hour.

2) Line of Demarcation; Concessionaire, University, MEC, Alliant, and ITC Midwest

- a) Except as depicted in Appendix L1, the line of demarcation for the Electric System as between the University and the Concessionaire shall be at the cable connections on the feeder breakers of the utility secondary service protector, feeding the main breaker(s) of the building main distribution panel(s).
- b) Except as depicted in Appendix L1, The line of demarcation for the Electric System as between the Concessionaire and any third-party electricity providers (“External Electric Utilities”) shall be: (i) for the Main Campus, up to the MidAmerican Energy Corporation (“MEC”) External Utility substation transformers low-side cable terminations; and (ii) for the Oakdale Campus, up to the 69kV transformer high side disconnect switch JB for ITC Midwest, LLC and Alliant Energy Corporation – Interstate Light and Power Company.
- c) All cabling, switchgear, transformers, duct banks, manholes, and vaults and substation buildings and associated infrastructure between the External Electric Utilities and building lines of demarcation (as described herein) shall constitute the Electric System.
 - i. MEC operates under an easement from the University and maintains its own equipment and the substation grounding mat.
 - ii. Sight perimeter walls chain link fence, access and drainage systems and the SPCC Plan shall be included as part of the Electric System.
- d) The Concessionaire shall review and assume the current University role in complying with the access, operating, interlocking, and station service arrangements between the University and External Electric Utility systems.
- e) Where the physical line of demarcation within the Electric System is not set forth herein, or is not otherwise apparent, the line of demarcation shall be located on the low voltage side of the relevant building or structure transformer.

3) Metering

- a) The Concessionaire shall maintain, operate and replace Electric meters in accordance with the requirements set forth herein.
 - i. The Concessionaire shall ensure the revenue grade meters are accurate and calibrated to the manufacturer’s recommendations.
 - ii. Concessionaire shall provide the University with all information from the meter readings, in a format prescribed by the University and in a manner that allows the University to maintain, without interruption, the University’s then-current internal system for usage recording and billing.

- b) As part of the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv), the Concessionaire shall include a plan to ensure metering accuracy and a metering accountability metric for such meters that are part of the Electric System. For the avoidance of doubt, the Concessionaire shall adhere to all applicable requirements with respect to meters set forth in the Design Standards attached as Appendix F. Electric meters to be maintained per requirements of electric metering codes and guidelines.
- c) The Concessionaire shall either continue to use the existing GE Global Care, Software Toolbox (OPC) and PI OsiSoft licensed software programs that the University uses to acquire, monitor and maintain Utility consumption data within the Utility System or use metering software of its choosing, subject to the Approval of such change in the Five-Year Plan by the University. In either case, the Concessionaire shall provide the University reasonable access to view the real-time meter data.
- d) The Concessionaire shall ensure electronic metering occurs at a minimum of 60 second intervals.
- e) The Concessionaire shall maintain accurate software, monthly meter data, and provide that data to the necessary University servers for use by the University for campus billing.
- f) The Concessionaire shall ensure that all new building connections to the Electric System are metered in accordance with the Design Standards. Temporary construction power shall be metered and read via manual reads. For new installations coming on-line, at the time permanent power is connected metering shall be in place for manual reads and shall be networked as soon as reasonably practicable meeting the specifications set forth herein.
- g) Substation and campus feeder meters.
 - i. Main substation and customer meters that are part of the Electric System must be in service when equipment is operating, functioning properly and reporting to a data system accessible by the University. If a meter or its network communications fails, it shall be repaired as expeditiously as possible
 - ii. Main substation meters shall have event capture capability and store wave form level detail during periods of electrical disturbance.
- h) The Concessionaire shall maintain Schweitzer Engineering Laboratories (SEL)-734 revenue meters (or an equivalent Approved by the University in its discretion) on all of the substation transformers and can also compare meter readings to the KV2C+ Meters where applicable and SEL relays (or an equivalent, in each case, Approved by the University in its discretion). The Concessionaire shall then compare internal meters monthly to billed consumption from the serving utility promptly and shall report such result to the University.

4) Efficiency

- a) The Concessionaire shall operate the Electric System plants in a manner to ensure reliability as well as optimization of energy and conservation of natural resources. The Concessionaire shall use commercially reasonable efforts to continuously improve the operating efficiency and use of resources for the Electric System.

5) Design Standards

- a) The Concessionaire shall adhere to the University's Design Standards and all legal requirements for the Electric System including but not limited to IEEE and NFPA.
- b) The Concessionaire is prohibited from installing, constructing or using above grade transmission and distribution lines, except as Approved by the University at the Oakdale Campus on a case by case basis.

6) Unplanned Outage

- a) An Unplanned Outage for the Electric System shall mean the occurrence of one of the following at the monitoring points identified on Appendix O for Electric System Unplanned Outages:
 - i. A distribution feeder breaker, building transformer failure, primary fuse or primary switch opens, secondary service protector main or feeder breaker opens, or any other cause determined by the University (acting reasonably) to originate within the Utility System which interrupts service to a building connected to the Electric System (in each case, except where such event is caused by a fault within a building, or other campus infrastructure, beyond the line of demarcation for the Utility System); or
 - ii. The Concessionaire fails to provide sufficient notice for such outage to be a Planned Outage.
- b) If an Unplanned Outage of the Electric System occurs which causes a loss of service, the Concessionaire shall promptly and diligently, including 24-hour a day work, commence active work to correct the Unplanned Outage and restore service, regardless of potential delay by others. Such updates shall be deemed a modification under Section 6.3(a) of the Concession Agreement.
- c) If there is an Unplanned Outage of the Electric System, the Concessionaire shall:
 - i. Notify the University by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;

- iii. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action; and
 - viii. Provide updates every 24 hours to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 24 hours or more;
- d) The Concessionaire shall communicate with the University when it becomes aware of an External Electric Utility line or service feed that is out of service and is impacting any University Facilities, or plans to perform such work that could impact reliability for the University.

7) **Redundancy**

- a) Where possible, the Concessionaire shall maintain an N+1 level of redundancy for the Utility System Assets that make up the Electric System. “N+1” is defined as the ability to meet seasonal peak load assuming the largest capacity Utility System Asset of the Electric System is non-functional.
- b) If the Electric System is below an N+1 level of redundancy, the Concessionaire shall promptly and diligently commence active work to correct the loss of system reliability within 48 hours.
- c) Each component of the Electric System shall have at least one independent backup.
 - i. For each substation in the Electric System, maximum capacity shall be met with the loss of a single transformer or bus.
 - ii. For distribution feeders in the Electric System:
 - 1. Buildings must be assigned a normal and alternate feed (except for those facilities radially fed); and

- 2. Feeder loading shall be maintained prudently below protective relay settings in accordance with Prudent Industry Practices.
- iii. For building service substations in the Electric System, they shall be in a main-tie-main configuration for critical facilities such as hospitals, research facilities and larger stadiums and may be single-ended for non-critical facilities.
- d) The Concessionaire shall operate, maintain and replace, as necessary, the gas engines at the Oakdale Power Plant that provide emergency back-up power to certain buildings on the Oakdale Campus, such that they shall provide at least the quality and quantity of backup service as exists on the Setting Date.
- e) The Concessionaire shall participate in annual power-loss testing on the Oakdale Campus at such times and in such frequency as reasonably requested by the University.
- f) The Concessionaire shall operate, maintain and replace, as necessary, the gas engines at the Main Power Plant that provide emergency back-up power to certain buildings on the University Campus in the same manner that it is required to operate, maintain and replace the rest of the Utility System, such that they shall provide at least the quality and quantity of backup service as exists on the Effective Date.

8) Distribution System Switching

- a) The Concessionaire shall maintain a table of relay settings on feeders and substation transformers for the Electric System in accordance with Prudent Industry Practices.
- b) The Concessionaire shall provide switching for planned maintenance, curtailment or construction outages for the Electric System. Switching shall result in no unplanned interruption to the University.
- c) Switch loading for the Electric System shall be done as required to comply with the following load limits:
 - i. Bus limits;
 - ii. Transformer load limits; and
 - iii. Feeder loading limits.
- d) The Concessionaire shall provide low voltage switching and support for building outages.

- e) As requested by the University for planning/design, for the duration of construction of new facilities on the University Campus, the Concessionaire shall provide construction power and support which shall include metering.

Part VI - PERFORMANCE STANDARDS – DOMESTIC WATER SYSTEM

1) Regulatory Requirements

- a) The Concessionaire shall ensure that the water being distributed by the Domestic Water System is compliant with all current United States Safe Drinking Water Act (42 U.S.C. §300f et seq.) (the “Safe Drinking Water Act”) requirements and the Water Treatment Plant operating permit requirements.
- b) For any capital improvements or upgrades or additions to the Domestic Water System made after the Closing Date, the Concessionaire shall ensure that those capital improvements or upgrades or additions to the Domestic Water System meet the current applicable Recommended Standards for Water Works published by the Great Lakes – Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers (the “Ten States Standards”).

2) Pressure Requirements

- a) The Concessionaire shall ensure that the water being distributed by the Domestic Water System maintains pressure of at least 60 psi as measured at the pressure transmitter at the campus water towers (on both the Main Campus and the Oakdale Campus) as shown on Appendix O.

3) Line of Demarcation between Concessionaire and University

- a) Except as otherwise described herein, the line of demarcation for the Domestic Water System, including for firefighting water, is depicted in Appendix L2.
- b) All building/secondary pumps, heat exchangers, back flow preventers, and associated building piping shall not be considered part of the Domestic Water System.

4) Metering

- a) The Concessionaire shall maintain and operate Domestic Water System meters in accordance with the requirements set forth herein and in the Concession Agreement.
 - i. The Concessionaire shall ensure the meters are accurate and calibrated to the manufacturer’s recommendations.
 - ii. Concessionaire shall provide the University with all information from the meter readings, in a format prescribed by the University and in a manner that allows the University to maintain, without interruption, the University’s then-current internal system for usage recording and billing. The Concessionaire-installed smart meters must be read at consistent intervals as described in paragraph (d) of this Section 4.

- iii. The Concessionaire shall complete the full metering of the Domestic Water System as provided in the Concession Agreement.
- b) As part of the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv), the Concessionaire shall include a plan to ensure metering accuracy and a metering accountability metric for such meters that are part of the Domestic Water System. For the avoidance of doubt, the Concessionaire shall adhere to all applicable requirements with respect to meters set forth in the Design Standards attached as Appendix F.
- c) The Concessionaire shall either continue to use the existing GE Global Care, Software Toolbox (OPC) and PI OsiSoft licensed software programs that the University uses to acquire, monitor and maintain Utility consumption data within the Utility System or use metering software of its choosing, subject to the Approval of such change in the Five-Year Plan by the University. In either case, the Concessionaire shall provide the University reasonable access to view the real-time meter data.
- d) The Concessionaire shall ensure electronic metering occurs at a minimum of 60 second intervals. Metering read via radio transmitter or other means shall occur on the first of each month for billing purposes.
- e) The Concessionaire shall maintain accurate software, monthly meter data, and provide that data to the necessary University servers for use by the University for campus billing.
- f) The Concessionaire shall ensure that all new building connections to the Domestic Water System are metered at the time of connection and that those meters are networked to the Utility Network as soon as reasonably practicable in order to meet the specifications set forth herein.
- g) Plant production meters
 - i. Production meters for the Domestic Water System must be in service when equipment is operating, functioning properly and reporting to a data system readily accessible by the University. If a primary production meter fails, causing the Domestic Water System (or any portion thereof) to be unable to be operated under control, safely and effectively, the associated equipment shall be shut off until the failure is resolved, and the Concessionaire shall cause such meter to be replaced or repaired as soon as reasonably practicable.
 - ii. Historical data on plant production meters shall be maintained and readily accessible for the University's review. Raw data shall be provided to the University in a format that cannot be edited by the Concessionaire. Data will be time stamped with the date, hour (in 24 hr. format) and minute.

- iii. Meters shall be calibrated and maintained in accordance with the manufacturer's recommendations. The schedule for such calibration shall follow the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv).

5) Efficiency

- a) The Concessionaire shall operate the Domestic Water System plants in a manner to ensure reliability as well as optimization of energy and conservation of natural resources. The Concessionaire shall use commercially reasonable efforts to continuously improve the operating efficiency and use of resources, including reduction in water loss from the Domestic Water System.

6) Design Standards

- a) The Concessionaire shall maintain and keep up to date an accurate Domestic Water System hydraulic model, which may be Bentley WaterGEMS CONNECT Addition Update Number 1 or other similar modeling software, in order to:
 - i. Inform new buildings being connected to the Domestic Water System of the design pressure drop requirements based on system hydraulic models; and
 - ii. Verify and maintain system flow velocities according to design standards.
- b) The Concessionaire shall cause the Domestic Water System to adhere to the following pipe velocity limits:
 - i. New piping to be limited to 10 feet per second ("fps") at peak flow; and
 - ii. New and existing HDPE piping velocity at peak flow shall not exceed manufacturer's burst pressure in the event of sudden velocity changes.
- c) Domestic Water System distribution piping shall be direct buried unless no other practicable option exists other than to place Domestic Water System piping in a Tunnel, provided that the University must Approve that there is no practicable option to direct bury such piping.
- d) The Concessionaire shall follow the Utility Service Connection and Inspection Standard in the Design Standards.

7) Unplanned Outage

- a) An Unplanned Outage for the Domestic Water System shall mean the occurrence of one of the following:
 - i. Domestic water supply to a building served by the Domestic Water System has no water pressure in any area of the building as reported and

reasonably verified by the University due to a closed or inoperable distribution valve, leakage, pipe failure, or other system failure on the Domestic Water System for distribution; except in the case where the valve has been closed upon the request of the University; or

- ii. The Concessionaire fails to provide sufficient notice for such outage to be a Planned Outage.
- b) The Concessionaire shall notify the University Facilities Management Work Control Number if there is excessive Domestic Water System water losses.
- c) If an Unplanned Outage for the Domestic Water System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Domestic Water System Unplanned Outage and restore service; unless otherwise Approved by the University in its sole discretion.
- d) If operational issues occur that result in a low water pressure event (lower than 40 psi at the west campus water tower or the Oakdale Campus water tower for 30 minutes) for the Domestic Water System, the Concessionaire shall:
 - i. Notify UI Facilities Management by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;
 - iii. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action; and
 - viii. Provide updates every 24 hours to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 24 hours or more.

8) Redundancy

- a) Where possible, the Concessionaire shall maintain an N+1 level of redundancy for the Utility System Assets that make up the Domestic Water System. “N+1” is defined as the ability to meet seasonal peak load assuming the largest capacity Utility System Asset of the Domestic Water System is non-functional.
- b) If the Domestic Water System is below an N+1 level of redundancy, the Concessionaire shall promptly and diligently commence active work to correct the loss of system reliability within 48 hours.
- c) The Concessionaire shall maintain the Water Treatment Plant standby generator in accordance with manufacturers’ recommendations and Prudent Industry Practices with the rated capacity of at least the capacity in existence as of the Closing.

9) Water Quality

- a) The Concessionaire shall ensure compliance by the Domestic Water System with the Safe Drinking Water Act and the Domestic Water Plant operating permit requirements.
- b) The Concessionaire shall ensure compliance by any capital improvements or upgrades or additions to the Domestic Water System made after the Closing Date with the Ten States Standards.
- c) The Concessionaire shall comply with the Legionella Exposure Control Plan provided in Appendix I.
- d) The Concessionaire shall require the domestic water systems in a new building that is to be connected to the Domestic Water System to be flushed and treated to central plant standards by the building owner or construction team before connecting to the Domestic Water System.

Part VII - PERFORMANCE STANDARDS – COMPRESSED AIR SYSTEM

1) Temperature Requirements

- a) The Concessionaire shall ensure that the compressed air being distributed by the Compressed Air System maintains a dew point of -25 degrees or lower at each of the monitoring points in the Utility System for the Compressed Air System as identified on Appendix O when the associated Utility Facility is in service.

2) Pressure Requirements

- a) The Concessionaire shall ensure that the compressed air being distributed by the Compressed Air System is maintained at a pressure greater than 80 psi at the main pressure control transmitter for the air system as identified on Appendix O, located in the Main Campus Power Plant and the Oakdale Power Plant.

3) Line of Demarcation between Concessionaire and University

- a) The line of demarcation for the Compressed Air System (comprised of the air generators located in the Main Campus Power Plant and Oakdale Power Plant and distribution system attached thereto) is depicted on Appendix L5. See also Appendix K5 for a map of the Compressed Air System.
- b) All building piping, valves, and associated equipment shall not be considered part of the Compressed Air System.

4) Metering

- a) Production meters for the Compressed Air System must be in service when equipment is operating, functioning properly and reporting to a data system readily accessible by the University. If a primary production meter fails, causing the Compressed Air System (or any portion thereof) to be unable to be operated under control, safely and effectively, the associated equipment shall be shut off until the failure is resolved, and the Concessionaire shall cause such meter to be replaced or repaired as soon as reasonably practicable.
- b) Historical data on plant production meters shall be maintained and readily accessible for the University's review. Raw data shall be provided to the University in a format that cannot be edited by the Concessionaire. Data will be time stamped with the date, hour (in 24 hr. format) and minute.
- c) Meters shall be calibrated and maintained in accordance with the manufacturer's recommendations. The schedule for such calibration shall follow the Preventive and Predictive Maintenance Plans developed in Section 1(i)(iv).

5) Efficiency

- a) The Concessionaire shall operate the Compressed Air System plants in a manner to ensure reliability as well as optimization of energy and conservation of natural resources. The Concessionaire shall use commercially reasonable efforts to continuously improve the operating efficiency and use of resources for the Compressed Air System.

6) Design Standards

- a) The Concessionaire shall design and install all Compressed Air System piping in accordance with ASTM standards and University design standards.
- b) The Concessionaire shall follow the Utility Service Connection and Inspection Standard in Design Standards.

7) Unplanned Outage

- a) An Unplanned Outage for the Compressed Air System shall mean the occurrence of one of the following:
 - i. Compressed air supply is interrupted to a building due to a closed or inoperable distribution valve, leakage, pipe failure, or other system failure on the Compressed Air System; except in the case where the valve has been closed upon the request of University; or
 - ii. The Concessionaire fails to provide sufficient notice for such outage to be a Planned Outage.
- b) The Concessionaire shall notify the University by calling the University Facilities Management Work Control Number if the Compressed Air System is running more air compressors than normal to keep up with demand over a 24 hour period.
- c) If an Unplanned Outage for the Compressed Air System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Compressed Air System Unplanned Outage and restore service; unless otherwise approved by the University in its sole discretion.
- d) If operational issues occur that result in an outage of the Compressed Air System, the Concessionaire shall:
 - i. Notify UI Facilities Management by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;

- iii. Notify the University Pharmaceuticals Department by calling the phone number identified by the University, which may be updated from time to time by notice from the University to the Concessionaire;
 - iv. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - v. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - vi. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vii. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - viii. Begin necessary corrective action; and
 - ix. Provide updates every 24 hours to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 24 hours or more.
- e) An Unplanned Outage of the Compressed Air System shall not be a KPI Event; however, for purposes of the definition of Repetitive Performance Standards Failure, either (i) more than 4 Unplanned Outages of the Compressed Air System or (ii) if there are more than 36 Outage Hours (as defined in Schedule 15) in any given Fiscal Year shall be considered a breach of the Performance Standards.

8) Redundancy

- a) Where possible, the Concessionaire shall maintain an N+1 level of redundancy for the Utility System Assets that make up the Compressed Air System. "N+1" is defined as the ability to meet seasonal peak load assuming the largest capacity Utility System Asset of the Compressed air System is non-functional.
- b) If the Compressed Air System is below an N+1 level of redundancy, the Concessionaire shall promptly and diligently commence active work to correct the loss of system reliability within 48 hours.

Part VIII - PERFORMANCE STANDARDS – UTILITY NETWORK SYSTEM

1) Availability Requirements

- a) The Concessionaire shall ensure that the data infrastructure and network assets for the Utility System that transmits all data gathered by the network devices for the Utility System and transmits all other data and electronic information within the Utility System and all Utility Facilities to the data historians (the “Utility Network”) is maintained in accordance with Prudent Industry Practices and is maintained in a manner that it has available all data information reasonably necessary for safe plant and distribution system operation as well as commodity billing and that it stores all such data and information gathered by the Utility Network.

2) Line of Demarcation between Concessionaire and University

- a) The Utility Network is separated from the University Campus network by a physical Fortinet firewall which will be operated and maintained by the Concessionaire. Data shall be made available outside the Utility Network via an OsiSoft PI Server (or any successor server Approved by the University in its discretion). This OsiSoft PI Server (or its successor) shall exist behind the physical firewall and shall maintain the capability to pass data to a University-owned PI Server, which resides on the University’s network, via PI-to-PI protocol, PI-Connector, or other University-Approved secure connection. The Concessionaire shall have the option to maintain for its own use any other PI system elements, such as a PI AF Server and/or PI Vision capabilities behind the firewall. The University will have the right to determine which PI assets it will utilize on its side, as shown in Appendix P. For clarity, Appendix P illustrates the PI configuration that the Concessionaire will be required to adhere to on the Closing Date. All assets used to manage data on the Utility Network, including the firewall, a PI Server (or any approved successor server) shall be included in the Utility Network System as shown on Appendix P.
- b) Additionally, the Utility Network System extends into University Buildings to collect metering data from Utility System Meters. The demarcation of the Utility Network System components within the buildings is also provided in Appendix P.

3) Utility Network Components

- a) The Concessionaire shall monitor, maintain and operate the Utility Network system components in accordance with the requirements set forth herein.
- b) The Concessionaire shall provide annually, as part of the Operations Plan, a plan to keep Utility Network components updated with a replacement plan for any outdated equipment. If network equipment ages to the point that it no longer will take updates in security, operating system, or process software provided by the developer of such equipment, then the equipment shall be replaced within 6 months after such point.

- c) The Concessionaire shall either continue to use the existing GE Global Care, Software Toolbox (OPC) and PI OsiSoft licensed software programs that the University uses to acquire, monitor and maintain Utility consumption data within the Utility System or use software of its choosing, subject to the Approval of such change in the Five-Year Plan by the University. In either case, the Concessionaire shall provide the University reasonable access to view the real-time data.
- d) The Concessionaire shall ensure control and data reliability appropriate for the criticality of the monitored devices.
- e) All metering shall be revenue grade where applicable, and will be connected to the Utility Network using a network interface or University-Approved telemetry.

4) Unplanned Outage

- a) An Unplanned Outage for the Utility Network shall mean the occurrence of one of the following:
 - i. Loss of a key component of the Utility Network system that creates immediate operability issues;
 - ii. Loss of a key component of the Utility Network system that causes a loss of redundancy in key systems; or
 - iii. An unrecoverable loss of utility billing data for a period of more than 24 hours.
- b) If an Unplanned Outage for the Utility Network System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Utility Network Unplanned Outage and restore service; unless otherwise Approved by the University in its sole discretion.
- c) If operational issues occur that result in an outage for the Utility Network System, the Concessionaire shall:
 - i. Begin necessary corrective action within two (2) hours for Emergency Situations (as defined below), and as soon as reasonably practicable for Urgent Situations (as defined below):
- d) An “Emergency Situation” occurs with respect to the Utility Network if there is a (i) loss of network; (ii) loss of server; (iii) loss of PLC (CW interface); (iv) loss of network switch or router; (v) failure of substation relay; or (vi) a water plant issue endangering production.

- e) An “Urgent Situation” occurs with respect to the Utility Network if there is: (i) redundancy lost in any network system; (ii) a Utility System meter offline; or (iii) a Cimplicity client offline.
- f) An Unplanned Outage of the Utility Network shall not be a KPI Event; however, for purposes of the definition of Repetitive Performance Standards Failure, either (i) more than 3 Unplanned Outages of the Utility Network or (ii) if there are more than 8 Outage Hours (as defined in Schedule 15) in any given Fiscal Year shall be considered a breach of the Performance Standards.

5) Redundancy

- a) Where possible, the Concessionaire shall maintain appropriate levels of redundancy for the Utility System Assets that make up the Utility Network System, so that secure and continuous operation can be maintained at all times. As part of such redundancy, the Concessionaire shall adhere to the following backup policy:
 - i. Full and incremental backups protect and preserve corporate network information and should be performed on a regular basis for system logs and technical documents that are not easily replaced, have a high replacement cost or are considered critical, consistent with the University’s Institutional Data Backup Policy, attached hereto as Appendix B. Backup systems should be housed in a secure and geographically separate location from the original and isolated from environmental hazards. Backup network components, cabling and connectors, power supplies, spare parts and relevant documentation should be stored in a secure area on-site as well as at other corporate locations. For the avoidance of doubt, backup media, data and other information may be stored on non-physical offsite data storage solutions.
 - ii. System databases
 - 1. A copy of the most current network and system databases must be made at least twice per month or based on frequency of changes made.
 - 2. The lead network administrator is responsible for this activity.
 - iii. Access to backup databases and other data are tested annually.

Part IX - PERFORMANCE STANDARDS – STORM WATER SYSTEM

1) Pressure Requirements

- a) The Concessionaire shall ensure that the water being removed by the Storm Water System maintains pressure as required to maintain flow such that water does not back up and pool at Storm Water System entry points as identified on Appendix K6.

2) Line of Demarcation between Concessionaire and University

- a) The Storm Water System shall include all piping, valves, manholes, access points and outfalls used to move storm water from the University Campus grounds to the appropriate discharge point as identified on Appendix L6. Appendix L6 serves as a representative diagram of the Storm Water System. See also Appendix K6 for a map of the Storm Water System.

3) Design Standards

- a) The Concessionaire shall maintain and update on an annual basis an accurate Storm Water System asset condition report which will indicate any deficiencies in the capacity or design of the Storm Water System. This Storm Water System report will also be used to:
 - i. Inform new buildings being constructed adjacent to the Storm Water System; and
 - ii. Verify and maintain Storm Water System capacities according to design standards.
- b) The Concessionaire shall cause the Storm Water System to adhere to the following Storm Water pipe velocity limits:
 - i. Storm Water System shall be capable of removing the water from a 10 year rain event without any failures or pooling.
- c) Storm Water System distribution piping shall be direct buried.

4) Unplanned Outage

- a) An Unplanned Outage for the Storm Water System shall mean the occurrence of one of the following:
 - i. Storm Water System fails to remove the storm water from any portion of the University Campus such that the water causes damage to any property or facility during a 10-year rain event (or less) (provided that the foregoing shall not constitute an Unplanned Outage to the extent that such damage results from damage resulting from a deficiency existing at the Closing

Date (which is proven by the Concessionaire to the University's reasonable satisfaction) to the extent that the Concessionaire has included the remediation of such deficiency in its initial Five-Year Plan and is diligently pursuing the remediation steps on the timetable set out in such initial Five-Year Plan).

- ii. Storm water flow is interrupted and is not removed from the University Campus such that the water causes damage to any property or facility due to a closed or inoperable distribution valve, leakage, pipe failure, or other system failure on the Storm Water System; except in the case where the valve has been closed upon the request of the University.
- b) The Concessionaire shall notify the University by calling the University Facilities Management Work Control Number if there is a reasonable possibility that the Storm Water System capacity is not sufficient to meet these Performance Standards.
 - c) If an Unplanned Outage for the Storm Water System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Storm Water System Unplanned Outage and restore service; unless otherwise approved by the University in its sole discretion.
 - d) If operational issues occur that result in a reduced Storm Water System capacity event, the Concessionaire shall:
 - i. Notify UI Facilities Management by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;
 - iii. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action; and

- viii. Provide updates every 24 hours to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 24 hours or more.

Part X - PERFORMANCE STANDARDS – SANITARY SEWER SYSTEM

1) Pressure Requirements

- a) The Concessionaire shall ensure that the water and other materials being distributed by the Sanitary Sewer System maintains pressure as required to maintain flow such that sanitary sewer water does not back up into any connected facilities.

2) Line of Demarcation between Concessionaire and University

- a) The Sanitary Sewer System shall include all piping, valves, manholes and access points used to move waste water from the University Campus buildings to the appropriate discharge point as identified on Appendix L7. Appendix L7 serves as a representative diagram of the Sanitary Sewer System. See also Appendix K7 for a map of the Sanitary Sewer System.

3) Design Standards

- a) The Concessionaire shall cause the Sanitary Sewer System to adhere to the current International Plumbing Code and any other applicable codes in the state of Iowa.
- b) Sanitary Sewer System distribution piping shall be direct buried.

4) Unplanned Outage

- a) An Unplanned Outage for the Sanitary Sewer System shall mean the occurrence of one of the following:
 - i. Sanitary Sewer System fails to remove the sanitary sewage from any portion of the University Campus such that the sanitary sewage causes damage to any property or facility;
 - ii. Sanitary Sewer System flow is interrupted and fails to remove the sanitary sewage water from a facility such that the sanitary sewage causes damage to any property or facility or creates a situation such that the facility may not be used normally due to a closed or inoperable distribution valve, leakage, pipe failure, or other system failure on the Sanitary Sewer System; except in the case where the valve has been closed upon the request of the University.
 - iii. A portion of the University's property served by the Sanitary Sewer System is unable to be operated because the Concessionaire failed to obtain proper discharge permits from the City of Iowa City or City of Coralville.

- b) For the avoidance of doubt, it shall not be an Unplanned Outage of the Sanitary Sewer System if an Unplanned Outage is caused by a user of the Sanitary Sewer System (other than the Concessionaire, the Operator or their Representatives) disrupting the Sanitary Sewer System by disposing of items in the Sanitary Sewer System for which it was not intended to be used.
- c) The Concessionaire shall notify the University by calling the University Facilities Management Work Control Number if there is a reasonable possibility that the Sanitary Sewer System capacity is not sufficient to meet these Performance Standards.
- d) If an Unplanned Outage for the Sanitary Sewer System occurs which causes a loss of service to a portion of the Utility System, the Concessionaire shall promptly and diligently, including 24-hour a day service, commence active work, regardless of potential delay by others, to correct the Sanitary Sewer System Unplanned Outage and restore service; unless otherwise approved by the University in its sole discretion.
- e) If operational issues occur that result in a reduced Sanitary Sewer System capacity event , the Concessionaire shall:
 - i. Notify UI Facilities Management by calling the University Facilities Management Work Control Number;
 - ii. Notify the UIHC Director of Physical Plant by calling the UIHC Physical Plant Number if any portion of the UIHC is impacted;
 - iii. Notify the University Housing and Dining Department by calling the UIHD Maintenance Plant Number if University Housing and Dining facilities are impacted;
 - iv. Notify the University Athletics Department by calling the UI Athletics Maintenance Plant Number if University Athletics facilities are impacted;
 - v. Notify the University Parking & Transportation Department by calling the UI PT Maintenance Plant Number if University Parking & Transportation facilities are impacted;
 - vi. Notify the Carver College of Medicine by calling the Carver Maintenance Plant Number if Carver College of Medicine facilities are impacted;
 - vii. Begin necessary corrective action; and
 - viii. Provide updates every 24 hours to UI Facilities Management by calling the University Facilities Management Work Control Number if an incident exceeds 24 hours or more.

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APPENDIX A

Surveillance Procedures

The University's then existing Video Surveillance Policy, as may be updated from time to time, and is available at <https://opsmanual.uiowa.edu/administrative-financial-and-facilities-policies/video-surveillance> or such other location as the University provides written notice thereof.

The text of such protocol as of the Bid Date is

45.1 Scope of Policy

This policy applies to all University of Iowa students, faculty, staff, and visitors to campus in their use of video equipment for the purpose of surveillance on or in any University property, facilities, and spaces and/or during the course of University-sponsored activities. Employing units of the University may establish more specific expectations in addition to this policy or elaborate on this policy in greater detail.

45.2 Exclusions

This policy does not apply to video used by or for:

- a. Non-surveillance purposes. Examples of non-surveillance video recordings include, but are not limited to, video recordings made for:
 - a. instructional, academic, or artistic purposes,
 - b. capturing public events and performances,
 - c. recording promotional or news events,
 - d. convenience such as weather or construction site viewing,
 - e. video conferencing,
 - f. University research purposes, or
 - g. patient care or medical treatment.

- b. The University of Iowa Department of Public Safety (DPS). DPS is authorized to utilize video surveillance as necessary to fulfill their mission and responsibilities as a law enforcement agency.
- c. Cameras installed in University space leased to an external party. The external party will provide the location of all video surveillance equipment in University space to DPS.

This policy also does not apply to audio recordings as they are addressed by *Iowa Code* [727.8](#), including the audio portion of a video recording.

45.3 Principles and Rationale

- a. The University of Iowa is committed to protecting the safety and property of our community by promoting a secure campus environment while avoiding unnecessary intrusions. This policy is intended to assure the appropriate use of video surveillance for reasons of safety, security, and stewardship of people and resources and provide transparency in the use of that technology/equipment.
- b. Video surveillance of individuals is prohibited if the use of such surveillance is based upon considerations that violate the University's Policy on Human Rights (see [II-3](#)).
- c. Video surveillance will be used in a professional and ethical manner in accordance with University policy and local, state, and federal laws and regulations, as well as any other relevant standards, such as those specific to health care organizations.
- d. The use of personal "webcam" technology that records video using portable electronic devices for surveillance purposes is prohibited.
- e. Virtual or "fake" surveillance cameras are prohibited.

45.4 Procedures

- a. An administrative committee will be formed to monitor the application of this policy to new and existing uses of video surveillance; to create operational procedures related to the approval of requests, retention of and access to video surveillance footage, use of signage; and to provide for timely reviews of this policy.

- b. Process for approval. Prior to design, purchase, installation, and/or any use, all video surveillance equipment and systems must be approved in writing as consistent with this policy.
 - a. For all University organizations other than University of Iowa Hospitals & Clinics:
 - a. Requests for design, purchase, installation, and/or use must be made to one of the following University officials:
 - a. The vice president, or a designee, for the requesting unit;
 - b. Assistant Vice President and Director of Public Safety, or a designee; or
 - c. Chief Human Resources Officer, or a designee.
 - b. Upon receiving a request, the University official will consult with the other University officials listed above and the Information Security and Policy Officer or a designee, prior to approval. Upon approval, these same individuals shall be notified of the written response by the approving University official.
 - b. For University of Iowa Hospitals & Clinics (and the operations of other health care units under the authority of the hospital):
 - a. The Vice President for Medical Affairs or a designee will be responsible for all requests for the design, purchase, installation, or use of video surveillance equipment and systems within the hospital. This person will also be responsible to assure appropriate consultation with other hospital and/or University officials, such as the Associate Vice President for Human Resources for UI Health Care, regarding the application of this policy.
 - b. UIHC's Department of Safety and Security is responsible for notifying the Department of Public Safety of the locations of surveillance cameras and for the retention of recordings.
 - c. Confidentiality statements. All University faculty, staff, and students with access to video surveillance systems are required to sign a confidentiality statement approved by the [Office of the General Counsel](#).
 - d. External releases of footage.

- a. Public records requests. All public records requests, including requests for the release of video surveillance footage, should be submitted to the UI [Transparency Officer](#), 101 Jessup Hall, according to normal University practice.
- b. Other external release. Prior written authorization from the Office of the General Counsel, or a designee, is required for any other release of video surveillance footage to any party external to the University.
- e. If video surveillance is installed where identification of individuals is possible, signage should be used when appropriate for the context. The following language is suggested: "This area is subject to video surveillance and may or may not be actively monitored."

45.5 Responsibility/Authority for Control

- a. The University officials in [V-45.4](#) above are responsible for and will maintain oversight for the appropriate use of video surveillance consistent with this policy.
- b. DPS shall be given access to video surveillance equipment and footage upon demand when necessary to fulfill their mission and responsibilities as a law enforcement agency.
- c. Distribution of video surveillance footage to University personnel other than those originally approved at the time the request was made or for a specific use other than the original purpose must be approved in writing following the process established in [V-45.4](#) above, by the University official, or a designee, that approved the original request. Any such distribution will be for legitimate University purposes and subject to applicable regulations and/or University policy.
- d. The location of all existing video surveillance equipment must be provided to DPS by December 31, 2012, and may be subject to review by the administrative committee in [V-45.4a](#) above.

45.6 Compliance

Violations of this policy may result in the following:

- a. Immediate removal of equipment and/or violators from University facilities;
- b. Resolution in accordance with applicable University policies and procedures, which may include disciplinary action up to and including expulsion or termination from the University; and/or

- c. Being reported to DPS for possible criminal investigation.

45.7 Standards

All video surveillance equipment located outside of the UI Hospitals & Clinics (or the operations of other health care units under the authority of the hospital) must be brought into compliance with the following technical, financial, and installation standards no later than June 30, 2017:

- a. Information Technology Standards available from the ITS service description located at: <https://its.uiowa.edu/video-surveillance>
- b. Design and Construction Standards located at: www.facilities.uiowa.edu/pdc/designstandards/index.html
- c. Security and Access Control Standards available from Facilities Management, 200 University Services Building.

APPENDIX B

Institutional Data Backup Policy

The University's then existing Institutional Data Backup Policy, as may be updated from time to time, and is available at <https://itsecurity.uiowa.edu/institutional-data> or such other location as the University provides written notice thereof.

The text of such protocol as of the Bid Date is

All electronic information that constitutes an official record, or has institutional value as defined in the University Operations Manual (Chapter 17.3 Records Management Program) shall be managed responsibly with regard to data access, backup, and disposal. This policy describes the requirements for proper management of institutional data records.

Institutional data is information that supports the mission and operation of The University of Iowa. It is a vital asset and considered essential to the University. The confidentiality, integrity and availability of institutional data must be ensured to comply with legal, regulatory, and administrative requirements.

Classifying Institutional Data

The overall *sensitivity* of institutional data encompasses not only its confidentiality, but also its integrity and availability. Many confidentiality obligations exist, such as those required for personal information and to meet contractual or regulatory requirements. Integrity, or trustworthiness, of institutional data must also be considered and aligned with institutional risk; that is, the impact on the institution should the data not be accurate. Availability relates to the impact on the institution's ability to function if the institutional data is not reliably accessible to authorized users.

Four levels of sensitivity apply to institutional data:

Classification Level	Description	Institutional Data Examples
Critical	<ul style="list-style-type: none">• Inappropriate handling or disclosure of this data could cause severe harm to individuals and the university, including exposure to criminal and civil penalties, identity theft, personal financial loss, or invasion of privacy.• Only selective access (on a need-to-know basis) may be granted.	<ul style="list-style-type: none">• Patient health, payment/insurance, and treatment data• Social Security Number• Credit card information• Personal identifiers (e.g., passport, driver's license)• ITAR data

	<ul style="list-style-type: none"> Has the most stringent legal or regulatory requirements and requires the most prescriptive security controls. 	<ul style="list-style-type: none"> Investigative reports
Restricted	<ul style="list-style-type: none"> Disclosure could cause significant harm to individuals and the university, including exposure to civil liability. Because of legal, ethical, or other constraints, this data may not be accessed without specific authorization. Only selective access (on a need-to-know basis) may be granted. Usually subject to legal and regulatory requirements due to data that are individually identifiable, highly sensitive and/or confidential. 	<ul style="list-style-type: none"> Financial aid data Student transcripts Identifiable human subject research data
University-Internal	<ul style="list-style-type: none"> Disclosure could cause limited harm to individuals and the university with some risk of civil liability. This data may be accessed by eligible employees and designated appointees of the University for the purpose of university business. Access restrictions should be applied accordingly. Either subject to contractual agreements or regulatory compliance or is individually identifiable, confidential, and/or proprietary. 	<ul style="list-style-type: none"> Financial reports Departmental memos Committee meeting minutes De-identified human subject research data
Public	<ul style="list-style-type: none"> Encompasses information for which disclosure poses little to no risk to individuals or the university. Few restrictions are placed on this data, as it is generally releasable to a member of the public upon request, or is published. Anyone regardless of institutional affiliation can access without limitation. 	<ul style="list-style-type: none"> Collegiate and departmental websites News releases Information subject to open records requests (email, financial, etc)

Policy Statements

1. The Information Security and Policy Office (ISPO) will maintain a web resource that explains the process for determining the correct classification level for any data.
(<https://itsecurity.uiowa.edu/classifying-institutional-data>)
2. Data Trustees will assess institutional risks and threats to the data for which they are responsible.
3. Data Trustees will classify the data as Public (low sensitivity), University-Internal (moderate sensitivity), Restricted (high sensitivity), or Critical (very high sensitivity).
4. *Unless otherwise classified, institutional data is University-Internal.*
5. Institutional Data that is moved, copied, extended or propagated is still considered Institutional Data and all Institutional Data Policies still apply.
6. No individual is authorized to change the classification level of institutional data without authorization from the Data Trustee.
7. Data Trustees must ensure that all decisions regarding the collection and use of institutional data are in compliance with applicable laws and regulations, and with University policy and procedure.
8. Users must report to their immediate supervisor or the Information Security & Policy Office, instances in which institutional data is at risk of unauthorized modification, disclosure, and/or destruction.

Access to Institutional Data

Authorization to access institutional data varies according to the need for care or caution in handling. For each classification, data handling requirements are defined to appropriately safeguard the information.

University personnel shall not change the classification level of institutional data (if moved, copied, extended, or propagated) without authorization from the Data Trustee.

Secondary Use

An Authorized User of Public or University-Internal data may repurpose the information for another reason or a new application when it is authorized by the Data Trustee. Secondary use or repurposing of Restricted or Critical data is strictly prohibited.

Policy Statements

1. Authorization to access restricted and critical institutional data is approved by the Data Steward, and is typically made in conjunction with the requestor's department head, supervisor, or other authority.

2. Where access to non-public institutional data has been authorized, use of such data shall be limited to the purpose for which access was granted.
3. Data Stewards must ensure that appropriate security practices, consistent with the data handling requirements in this policy, are used to protect institutional data. These requirements also apply to copies of the data.
4. University faculty and staff must affirmatively accept the University's institutional data confidentiality agreement in Employee Self Service on an annual basis as a prerequisite for obtaining access to non-public data.
5. Legal counsel must review external data sharing agreements to ensure appropriate enforcement of confidentiality.
6. In addition to providing classification of the data, Data Trustees may offer guidance on appropriate use of data.

Institutional Data Backup

All institutional data must be copied onto a secure storage media on a regular basis (i.e., backed up), for disaster recovery and business continuity purposes. This section outlines the *minimum requirements* for the creation and retention of backups. Special backup needs that exceed these minimum requirements should be implemented on an individual, as-needed basis.

Data backup solutions by Enterprise Services at the university are provided in order to meet or exceed minimum backup requirements for typical applications, however, Data Custodians must verify that backups meet the requirements of the data collections for which they are responsible. Services contracted from an outside vendor should be assessed to determine responsibility for backups, and ability to meet University of Iowa requirements.

Federal and state regulations pertaining to the long-term retention of information (e.g., financial records, research data) must be met using retention policies as described in the University of Iowa Records Management Program, or as described in research Data Management Plans. Long-term archive requirements are beyond the scope of this policy.

Policy statement

Data Custodians will document backup and recovery procedures for each collection of institutional data that they maintain, which address:

1. Individuals (with contact information) responsible for performing backup and recovery operations.
2. Individuals (with contact information) to be notified in the event recovery operations are required.
3. Locations of backups, including requirements (if needed) for off-site storage.
4. Rules governing who may access backups.
5. Backup and retention schedules.

6. Special requirements (e.g., data encryption, unique hardware, external regulations, etc.)
7. Step by step instructions on how to perform backup and recovery functions.
8. Minimum backup requirements for all University of Iowa institutional data. It is the responsibility of the Data Trustee and Data Steward to determine whether additional requirements, such as retaining multiple backup copies, are necessary.
 - Two individuals identified who can perform backup and recovery procedures.
 - A physically separated (remote/off-site) backup must be maintained. Taking backup media to a personal residence is not permitted.
 - At least one current, complete backup will be retained at all times. If the data is volatile, incremental backups may be used in conjunction with complete backups for efficiency. Other techniques, such as data replication or mirroring may also be acceptable.
 - Backup and recovery procedures will be tested at least once per year, and also when changes to the procedures are made (e.g., change of backup hardware).
 - Backup and recovery requirements and documentation will be reviewed at least once per year.
 - In the case of derived data or data obtained from outside sources, backups are not required if reobtaining or recreating the data is more efficient than performing backups.

Equipment Disposal

Digital storage devices that contain licensed software programs and/or institutional data must be reliably erased and/or destroyed before the device is transferred out of University control, or erased before being transferred from one University department or individual to another. This does not preclude the use of physical media intended specifically for the purpose of data transfer. The University of Iowa is committed to compliance with applicable laws and regulations associated with the protection of confidential information as well as ensuring compliance with software licensing agreements.

All computers and digital storage devices including, but not limited to desktop workstation, laptop, server, notebook, handheld computer, and hard drives; and all external data storage devices such as disks, SANs, optical media (e.g., DVD, CD), magnetic media (e.g., tapes, diskettes), and non-volatile electronic media (e.g., memory sticks), are covered under these requirements for disposal.

Policy Statements

University-owned assets must have all institutional data and licensed software reliably erased from the device prior to its transfer out of University control, and/or the media must be destroyed, using current best practices for the type of media.

1. All computer and digital storage media leaving the University's possession and/or control while still intact must be transferred in accordance with the University of Iowa Equipment policy (Operations Manual Part V, Chapter 12), which covers both tagged and non-tagged equipment. University Surplus is ultimately responsible to perform the erasure of data using approved procedures prior to release, or they will destroy the media.
2. Departmental IT support staff are recommended to erase computer and digital storage media prior to transfer within the University (to Surplus), or destroy/replace storage media, before equipment transfers take place.
3. An organizational IT Director must review all computer and electronic storage equipment identified for title transfer. Licensed software and institutional data deemed to be the property of the University of Iowa must be removed prior to title transfer of equipment from the University. Units without an organizational IT Director should assign review to the senior administrative officer of the unit.
4. Computer and digital storage media which are included as part of a trade-in purchase must be identified on the purchase order for new equipment. Documentation attesting to the erasure of licensed software and institutional data by an approved IT service provider will be required to complete the purchase.
5. The University must have a confidentiality agreement in place with any vendor receiving devices for trade-in, or that must be replaced as part of a warranty or repair contract but which cannot be erased for technical reasons.

Appendix A: Related Policies, References and Attachments

The collection of University of Iowa Information Technology policies and procedures contain acceptable use, security, networking, administrative, and academic policies that have been developed to supplement and clarify University of Iowa policy.

Information technology policies are incorporated into the University of Iowa Operations Manual (available online at <https://opsmanual.uiowa.edu>), through the Policy on Acceptable Use of Information Technology Resources (see <http://opsmanual.uiowa.edu/community-policies/acceptable-use-information-technology-resources>).

All Information technology policies are available at <https://itsecurity.uiowa.edu/university-it-policy>. Best practices documents are available at <https://itsecurity.uiowa.edu/resources>

APPENDIX C

Utility Network Outage Procedures

Utilities Network Disaster Recovery Plan

By John Paul

University of Iowa Utilities
Meters and Controls

Emergency notification contacts (Network Team)

Name	Address	Home Phone	Mobile/Cell Phone
John Paul	165 MSSB	563-946-2050	319-321-9560
Marc Mohn	165 MSSB	319-350-3017	319-631-2021
Don Bream	165 MSSB		319-631-4380
Dean March	165 MSSB		319-631-2020
Matt Heffernan	165 MSSB		319-631-1938
Mike Craig	165 MSSB		319-631-2023
Mike Mullink	165 MSSB		319-631-2025
Procom Systems			563-940-1592

Emergency response activities

	Action	Who Performs
1.	Identify and assess network outage	Network Team
2.	Review with management	John Paul
3.	Evacuate area if necessary	Network Team
4.	Initiate remedial actions to recover network assets	John Paul
5.	Decision to invoke network DR plan	Network Team
6.	Initiate DR plan activities	Network Team
7.	Contact appropriate vendors	John Paul
8.	Follow through on recovery procedures	Network Team
9.	Report to management	John Paul

1. Purpose

The purpose of this network disaster recovery (DR) plan is to prepare Meters and Controls for response in the event of disruptions affecting the Utilities Network. This plan will also guide restoration of network integrity and normal operations to the widest extent possible in a minimum time frame. All U of I locations that are connected to the Utility Network are expected to implement preventive measures whenever possible to minimize operational disruptions and to recover as rapidly as possible when an incident occurs.

This plan identifies vulnerabilities and recommends necessary measures to prevent extended network outages. It is a plan that encompasses all U of I Utilities Network operations in all locations.

Scope

The scope of this plan is limited to Utilities Network. This is a disaster recovery (DR) plan, not a daily problem resolution procedures document.

Plan Objectives

- Serves as a guide for Meters and Controls personnel
- References and points to the location of network operational data outside this document
- Provides procedures and resources needed to assist in network recovery
- Identifies vendors and customers that must be notified in the event of a network outage
- Assists in avoiding confusion experienced during a network disruption by documenting, testing and reviewing recovery procedures
- Identifies alternate sources for network equipment, network services, power supplies and other resources
- Documents storage, safeguarding and retrieval procedures for vital network records and other relevant data

Assumptions

- Key network people (administrators, team leaders, technicians and alternates) will be available following a disaster
- This plan and critical network documents are stored in a secure off-site location and not only survived the disaster but are accessible immediately following a disaster
- Other IT departments and support organizations will have their own DR plans

Disaster definition

Any loss of services (such as local access, routers or switches), or natural or man-made disaster that causes an interruption in network connectivity relating to technologies provided by Utilities Network IT operations. This plan identifies vulnerabilities and recommends measures to prevent extended network outages.

Recovery teams

- Disaster Recovery Team (DRT)
- Technical Support (TS) for Networking (Meters and Controls Personnel)

See Appendix A for details on the roles and responsibilities of each team.

Team member responsibilities

- Each team member will designate an alternate/backup.
- All team members should keep an updated calling list of team members' work, home and cell phone numbers both at home and at work.
- All team members should keep this plan for reference at home in case a network disaster happens after normal work hours. All team members should familiarize themselves with the contents of this plan.

2. Instructions for using the plan

Invoking the plan

If an initial assessment of the network disruption indicates a potentially prolonged outage (e.g., longer than 8 Hrs.), this plan becomes effective when approved by management. The plan will remain in effect until network operations are resumed at all affected locations.

Disaster declaration

The Disaster Recovery Team and Technical Support, is responsible for declaring a disaster and activating network recovery teams as outlined in this plan.

Notification

Regardless of the network disruption circumstances, or the identity of the person(s) first made aware of the disaster, the (DRT) must be activated immediately in the following cases:

- Two or more systems and/or sites are down concurrently for three (3) or more hours.
- Five or more systems and/or sites are down concurrently for three (3) or more hours.
- Any problem involving the Utility Network facility that would cause either of the above conditions to be present or there is certain indication that either of the conditions is about to occur.

3. Emergency management standards

Backup policy

Full and incremental backups protect and preserve corporate network information and should be performed on a regular basis for system logs and technical documents that are not easily replaced, have a high replacement cost or are considered critical. Backup media should be stored in a secure and

geographically separate location from the original and isolated from environmental hazards. Backup network components, cabling and connectors, power supplies, spare parts and relevant documentation should be stored in a secure area on-site as well as at other corporate locations.

Network-specific data and document retention policies specify what records must be retained and for how long. Utilities personnel are accountable for carrying out instructions for records management in their organization.

Technical Support follows these standards for data backup and archiving, particularly for networks:

Backup retention policy

Backup media is stored at locations that are secure, isolated from environmental hazards, and geographically separate from the location housing network components.

System databases

- A copy of the most current network and system databases must be made at least twice per month or based on frequency of changes made.
- The lead network administrator is responsible for this activity.

Offsite storage procedures

- Tapes, disks and other suitable media are stored in environmentally secure facilities.
- Tape or disk rotation occurs on a regular schedule coordinated with the storage vendor.
- Access to backup databases and other data are tested annually.

4. Emergency management procedures

The following procedures are to be followed by network administration and operations personnel and other designated Utilities Network employees in the event of a network disruption or related outage. Where uncertainty exists, the more reactive action should be followed to provide maximum protection and personnel safety.

These procedures are furnished to the U of I Utilities management personnel to take home for reference. Several pages have been included to supply emergency contacts.

In the event of any situation where access to a building housing network infrastructure equipment is denied, personnel should report to alternate locations or contact security for access if the location is not damaged or quarantined. Primary and secondary locations:

Note: See Appendix D for locations.

In the event of a natural disaster

In the event of a major catastrophe affecting University of Iowa Utilities Network operations, immediately notify John Paul or designated backup.

Procedure

STEP	ACTION
1	Notify DRT of impending event as time permits.
2	If impending natural disaster can be tracked, begin launching network DR plans within 48 hours as follows: <ul style="list-style-type: none">• Deploy network technical and admin personnel on standby.• Facilities department on standby for replacement equipment
3	24 hours prior to event: <ul style="list-style-type: none">• Create an image of network and system databases and other relevant files.• Back up critical network and system elements.• Notify senior management.

Plan review and maintenance

This network disaster recovery plan must be reviewed semi-annually and exercised on at least an annual basis. The test may be in the form of a walk-through, mock disaster, or component testing.

The hard-copy version of the network DR plan will be stored in a common location where it can be viewed by site personnel and the DRT. Electronic versions will be available via U of I Utilities Network resources. Each recovery team will have its own directory with change management limited to the recovery plan coordinator.

Alert/verification/declaration phase

Plan checklists

Network response and recovery plans and forms located in Appendix F. The forms may be used by Technical Support members as "quick references" when implementing the network DR plan or for training purposes.

Initials	Task to be completed
	Assess physical damage WP – WCWP Server Rooms
	Check Utilities Routers for online status
	Check Firewall - Utilities-FW-P and Utilities-FW-B
	Check for Primary equipment online (see appendix H)
	Check for Redundant equipment online (see appendix I)

Notification of incident affecting the site

On-duty personnel responsibilities

If in-hours:

Upon observation or notification of a potentially serious network disruption, ensure that personnel on site have enacted standard emergency and evacuation procedures, if appropriate, and notify the DRT.

If out of hours:

Technical Support personnel should contact the DRT.

Provide status to DRT

Contact the DRT and provide the following information when any of the following conditions exist: (See Appendix B for contact list)

- Network performance has sufficiently degraded to where normal operations are not possible for three or more hours.
- Any problem at any network infrastructure asset, system or location that would cause the above condition to be present or there is certain indication that the above condition is about to occur.

The DRT will:

Provide the following information to Management Team

- Location of incident.
- Type of incident (e.g., fire, tornado, flood).
- Summarize the damage (e.g., minimal, heavy, total destruction).

- Meeting location that is a safe distance from the disaster scene.
- An estimated timeframe of when a damage assessment group can enter the facility (if possible).
- The DRT will contact the respective Departments, Utilities, Plants, and FM IT to report that a disaster involving network operations has occurred.

Decide course of action

Based on the information obtained, the DRT will decide how to respond to the event: Mobilize Technical Support, repair/rebuild existing network operations with network technical and admin staff or relocate to a new facility.

Inform team members of decision

If a disaster is not declared:

The DRT will continue to address and manage the situation through its resolution.

If a disaster is declared:

The DRT will notify TS immediately for deployment of network DR plans.

Conduct detailed damage assessment (This should be performed prior to declaring a disaster)

1. Under the direction of local authorities, TS and/or DRT, assess the damage to the network and related assets. Include vendors/providers of installed network services and equipment, as needed, to ensure that their expert opinion regarding the condition of the network is determined.
 - A. Participate in a briefing on assessment requirements, with Disaster Management Team reviewing:
 - B.
 - (1) Assessment procedures
 - (2) Gather requirements
 - (3) Safety and security issues

Declare a disaster:

If the situation is not likely to be resolved within predefined timeframes. The person authorized to declare a network disaster must also have at least one (1) backup who is also authorized to declare a disaster in the event the primary person is unavailable.

Disaster declared

Mobilize incident response/technical support teams/report to command center

Once a network disaster is declared, the (DRT) is mobilized. This team will initiate and coordinate the appropriate recovery actions. Network technical and administrative employees should assemble at a designated location as soon as possible. See Appendix D for emergency locations.

NOTE: Access to the facility following a fire or potential chemical contamination will likely be denied for 24 hours or longer.

Document assessment results using Assessment and Evaluation Forms contained in Appendix E:

Building access permitting: (Dependent on physical damage and personal safety)

- Conduct an on-site inspection of affected areas to assess damage to essential network records (files, manuals, contracts, documentation, etc.) and electronic data.
 - Obtain information regarding damage to the network, e.g., environmental conditions, physical structure integrity, furniture, and fixtures) from the DRT.
2. Develop a Restoration Priority List, identifying facilities, vital records and equipment needed for resumption of network operations that could be restored and retrieved quickly.
 3. Recommendations for required resources.

Contact DRT: Decide whether to continue to business recovery phase

The DRT gathers information regarding the event; contacts senior management and provides them with detailed information on status.

Based on the information obtained, senior management decides whether to continue to the business recovery phase of this network DR plan. If the situation does not warrant this action, continue to address the situation at the affected site(s).

5. *Network recovery phase*

This section documents the steps necessary to activate network recovery plans to support full restoration of systems and network functionality at either 1) the original location or 2) an alternate/recovery site that would be used for an extended period of time. Coordinate resources to re-establish network operations at the primary site and reconstruct network operations at a temporary/permanent system location, and to deactivate recovery teams upon return to normal network operations in either scenario.

University of Iowa Utilities System and facility operation requirements

The system and facility configurations for each location are important to re-establish normal network operations. A list for each location will be included in Appendix D.

Notify technical support staff and coordinate return to primary facility/location

See Appendix B for Technical Support staff associated with recovery of network operations at the original site.

Notify technical support staff/coordinate relocation to new facility/location

See Appendix B for Technical Support staff associated with configuring network services at an alternate location (replacement for original site).

Notify DRT and business units of network recovery

Using the call list in Appendix B, notify the appropriate personnel. Inform them of any changes to processes or procedures, contact information, hours of operation, etc. (may be used for media information).

6. Operations recovered

Assuming all relevant network operations have been recovered either to the original location or to an alternate site with employees in place to support network operations, the U of I Utilities organization can declare that its network is functioning normally.

7. Appendix A: University of Iowa Utilities Network recovery teams

Disaster Recovery Team (DRT)

Note: See Appendix B for contact list.

Charter:

Responsible for overall coordination of the network disaster recovery effort, establishment of the emergency command area (if needed) and communications with senior management, and Technical Support teams.

Support activities:

- Coordinate with senior management and Technical Support
- Assist with determination of network recovery needs with Technical Support.
- Establish command center and assembly areas.
- Notify affected Utility Managers and advise them to activate their plan(s) if applicable, based upon the disaster situation.
- If no network disaster is declared, take appropriate action to return to normal network operations using regular network operations staff.
- Determine if vendors and other teams are needed to assist with detailed damage assessment.
- Prepare post-disaster debriefing report.
- Coordinate the development of revised network recovery plans and ensure they are updated semi-annually.

Technical Support (TS)

Charter

Technical Support will facilitate network recovery and restoration activities.

Support activities

Upon notification of disaster declaration, review and provide support as follows:

- Facilitate network recovery and restoration activities, providing guidance on replacement equipment, systems and network services, as required.
- Coordinate testing of network operations to ensure the network is functioning normally.

8. Appendix B: Recovery team contact lists

Disaster Recovery Team

Name	Address	Home	Mobile
John Paul			319-321-9560
Mike Craig			319-631-2023

Technical Support

Name	Address	Home	Mobile
Marc Mohn			319-631-2021
Don Bream			319-631-4380
Dean March			319-631-2020
Matt Heffernan			319-631-1938
Mike Mullink			319-631-2025
Mike Forcier			319-551-0827
Scott McKnight			563-570-2427
Dave Hahn			319-631-1944
Mitch Brandt			319-631-2463
George Paterson			319-330-4578

9. Appendix C: Emergency numbers

First responders, public utility companies and others

Name	Contact Name	Phone
Procom Systems	Frank Painter	563-940-1592
MidAmerican Energy	Customer Call Center	(888) 427-5632
Alliant Energy	Customer Call Center	(800) 255-4268
UI Power Plant	Ben Anderson	319-335-5843
UI Chilled Water Plant	Ed Stroud	319-335-8625
UI Water Plant	Scott Slee	319-335-6245
UI Public Safety	Dispatch	319-335-5022
UI Energy Control Center	George Paterson	319-335-5139

10. Appendix D: Emergency command center and alternate locations

Emergency command center

Primary:	Address:	Water Plant
	Room:	106
	City, State:	Iowa City, Iowa
	Contact:	John Paul
Alternate 1:	Address:	MSSB 640 S. Madison St.
	Room:	165
	City, State:	Iowa City, Iowa
	Contact:	John Paul
Alternate 2:	Address:	WCWP 305 Hawkins Drive
	Room:	202
	City, State:	Iowa City, Iowa
	Contact:	John Paul

11. Appendix E: Forms

Incident/disaster form

Upon notification of a network disruption the on-duty personnel in Network Operations will make the initial entries into this form. It will then be forwarded to the ECC and will be continually updated. This document will be the running log until the help desk incident/disaster has ended and “normal business” has resumed.

Utilities Network Location:

[Utilities-Srv\Net\Documents\Network\Disaster Recovery Files](#)

University of Iowa IT Network location:

[L:\Meters & Controls\Utility network\Disaster Recovery Files](#)

Network drawings and Documentation

Utilities Network Location:

[Utilities-Srv\Net\Documents\Network\Drawings\VLAN Visio Drawings](#)

University of Iowa IT Network location:

[L:\Meters & Controls\Utility network\VLAN Visio Drawings](#)

Critical network Equipment Status Form

Utilities Network Location:

[Utilities-Srv\Net\Documents\Network\Disaster Recovery Files](#)

University of Iowa IT Network location:

[L:\Meters & Controls\Utility network\Disaster Recovery Files](#)

12. Appendix F: Approved vendor list

Server and computer equipment suppliers

Company Name	Contact	Work	Mobile
Dell	FM IT (Jon Liles)	335-2705	

Communications and network services suppliers

Company Name	Contact	Work	Mobile
Hirschmann(Belden)	Tom Goodwin		708-897-7977
Crescent Electric	John Gordon		319-866-4519
Van Meter Electric	Dan Kruser		319-339-0000
GE	Adam Doiron		612-206-7046

13. Appendix G: Vendor's Proof of Insurance

Utilities Network Location:

[Utilities-Srv\Net\Documents\Network\Disaster Recovery Files](#)

University of Iowa IT Network location:

[L:\Meters & Controls\Utility network\Disaster Recovery Files](#)

APPENDIX D
Asbestos Management Program

Asbestos Management Program

The University Of Iowa
[Environmental Health & Safety](#) y
122 Grand Avenue Court
Iowa City, IA 52242-1000
Phone: 319-335-8501
Date Revised/Reviewed: 5/8/2018

1. Summary

Asbestos is the common name for a mineral fiber that was added to building materials prior to the 1980's. Damaged materials may release fibers into the air and inhaling elevated fiber concentrations increases risk of several serious chronic illnesses. Regulatory agencies have strict laws on asbestos that apply to private and public buildings to prevent hazardous exposures to workers and the public.

2. Scope

These procedures apply to employees and contracted work involving the identification, work on, removal, or repair of asbestos-containing materials. Materials not tested for the presence of asbestos must be presumed to contain asbestos (excluding glass, metal, plastic, and wood).

3. Policy and Regulation

University of Iowa Operations Manual, Part III Human Resources, Division II Standards and Ethics, Chapter 16.4.d Policy on Ethics and Responsibilities for University of Iowa Staff. Iowa Occupational Safety and Health Administration, 29 CFR 1910.1001 and 1926.1101 administered by Iowa Department of Labor. Environmental Protection Agency NESHAPS regulations administered by Iowa Department of Natural Resources.

4. Definitions

Asbestos – A common term for a naturally occurring fiber often added to building materials prior to the 1908's for the purpose of strength and resistance to heat or corrosion.

Asbestos-containing materials - have equal to or greater than 1% of asbestos fibers in the material matrix.

Asbestos Fiber Release Episode – Unplanned disturbance or accidental damage of asbestos containing materials that may release asbestos fibers into the air.

Friable asbestos – Dry asbestos containing material that can be crumbled, crushed, or pulverized to powder by hand pressure. Examples are pipe insulation and sprayed on materials.

Non-friable asbestos – Dry asbestos containing material that can not be crumbled, crushed, or pulverized to powder by hand pressure. Examples are floor tile and cementlike materials.

5. Roles and Responsibilities

Deans, Directors and Department Heads are responsible to:

- Designate and empower the department's Health and Safety Coordinator (or Program Coordinator or equivalent) and supervisors.
- Actively support these procedures within individual units.
- Ensure an environment where employees are encouraged to follow these procedures.

The Department Health and Safety Coordinator is responsible to:

- Act as an administrative liaison between the department and EHS.
- Provide administrative oversight of health and safety within the department.
- Facilitate the correction of safety problems within the department.

Supervisors are responsible to:

- Implement these procedures.
- Assure that staff is aware of this program and provided with training and the personal protective equipment.
- Maintain documentation and records as required.
- Implement awareness information and training for University employees whose activities contact asbestos-containing materials such as in housekeeping and maintenance operations.

Employees are responsible to:

- Comply with these procedures and any further safety requirements set by supervisors.

Facilities Management Environmental Services is responsible to:

- Provide administrative oversight of departments involved in asbestos-related activities or work; perform centralized University reporting to regulatory agencies; and provide remediation and repair services within their service capabilities.

EHS is responsible to:

- Provide procedural guidelines, educational offerings, administrative consultations and reviews, and select technical and field services.
- Exercise surveillance over health and safety issues at the University.

6. Procedures

See Section 6a for University employees who contact but do not disturb asbestos materials during housekeeping and maintenance activities.

See Section 6b for an unplanned disturbance of asbestos containing materials.

Contact FM Environmental Services for the identification or remediation of asbestos materials.

a. Procedures for Class IV Housekeeping and Maintenance

These procedures (Class IV) are for maintenance and custodial activities during which employees contact but do not disturb asbestos (ACM or PACM).

General Practices

- Approved initial 2-hour minimum asbestos training course required with annual refresher training. Maintain employee-training records for at least one (1) year beyond the last date of employment.
- All surfaces shall be maintained as free as practicable of ACM waste, debris, and accompanying dust.
- HEPA-filtered equipment shall be used for vacuuming asbestos containing waste and debris. The equipment shall be used and emptied in a manner, which minimizes the reentry of asbestos into the workplace.
- Wet cleaning methods must be used when HEPA vacuuming is not done.
- Waste, scrap, debris, bags, containers, equipment, and clothing contaminated with asbestos shall be collected, recycled and disposed of in sealed impermeable bags, or other closed, impermeable containers.

General Prohibitions

- Surfaces contaminated with asbestos may not be cleaned using compressed air.
- Do not drill holes, hammer nails into, hang objects from, disturb when replacing light bulbs, touch with curtains, drapes, or dividers, or move furniture that damages ACM or HEPA vacuuming is not done.
- Waste, scrap, debris, bags, containers, equipment, and clothing contaminated with asbestos shall be collected, recycled and disposed of in sealed impermeable bags, or other closed, impermeable containers. General Prohibitions
- Surfaces contaminated with asbestos may not be cleaned using compressed air.
- Do not drill holes, hammer nails into, hang objects from, disturb when replacing light bulbs, touch with curtains, drapes, or dividers, or move furniture that damages ACM or PACM.
- Waste, debris and accompanying surface dust in areas containing accessible ACM and/or PACM or visibly deteriorated ACM, shall not be dusted, swept, shoveled dry, or vacuumed without using a HEPA filter.

Non-Construction (Class IV) specific procedures

- Mist ventilation air filters with water before removal; do not shake and dispose of properly.
- Care of asbestos-containing flooring material.
- Sanding of asbestos-containing floor material is prohibited.
- Stripping finishes shall be done using low abrasion pads at speeds lower than 300 rpm and wet methods.
- Burnishing or dry buffing may be performed only on asbestos-containing flooring which has sufficient finish so that the pad cannot contact the asbestos-containing material. Construction (Class IV) specific procedures Class IV work in regulated area requires respirator and other appropriate pHEPA filter. Non-Construction (Class IV) specific procedures.
- Mist ventilation air filters with water before removal; do not shake and dispose of properly.
- Care of asbestos-containing flooring material.
- Sanding of asbestos-containing floor material is prohibited.
- Stripping finishes shall be done using low abrasion pads at speeds lower than 300 rpm and wet methods.
- Burnishing or dry buffing may be performed only on asbestos-containing flooring which has sufficient finish so that the pad cannot contact the asbestos-containing material.

Construction (Class IV) specific procedures

Class IV work in regulated area requires respirator and other appropriate personal protective equipment use when other asbestos work is being performed in area.

b. Procedures for an Unplanned Disturbance

For Individuals Discovering an Unplanned Disturbance

- Immediately evacuate the damaged area.
- Notify the appropriate University office (based on the amount of damaged area).

Major Disturbance (three square feet or more of damage)

- Environmental Services 319-335-6477 or Cell Phone 319-631-0611 (from 8:00am-4:30pm)
- Environmental Health & Safety 319-335-8501 (from 8:00am-5:00pm)

- Public Safety 319-335-5022 (24 hours a day or when other contacts not available)

Minor Disturbance (less than three square feet of damage)

- Athletics 319-335-9410
- Business Services 310-335-0082
- Facility Management 319-335-5071
- Iowa Memorial Union 319-335-3138
- UIHC 319-356-3526
- University Housing 319-335-9970

For University Personnel Responding to a Major Unplanned Disturbance Note:

University personnel responding to an unplanned disturbance or asbestos fiber release episode must be trained and equipped in compliance with state regulations.

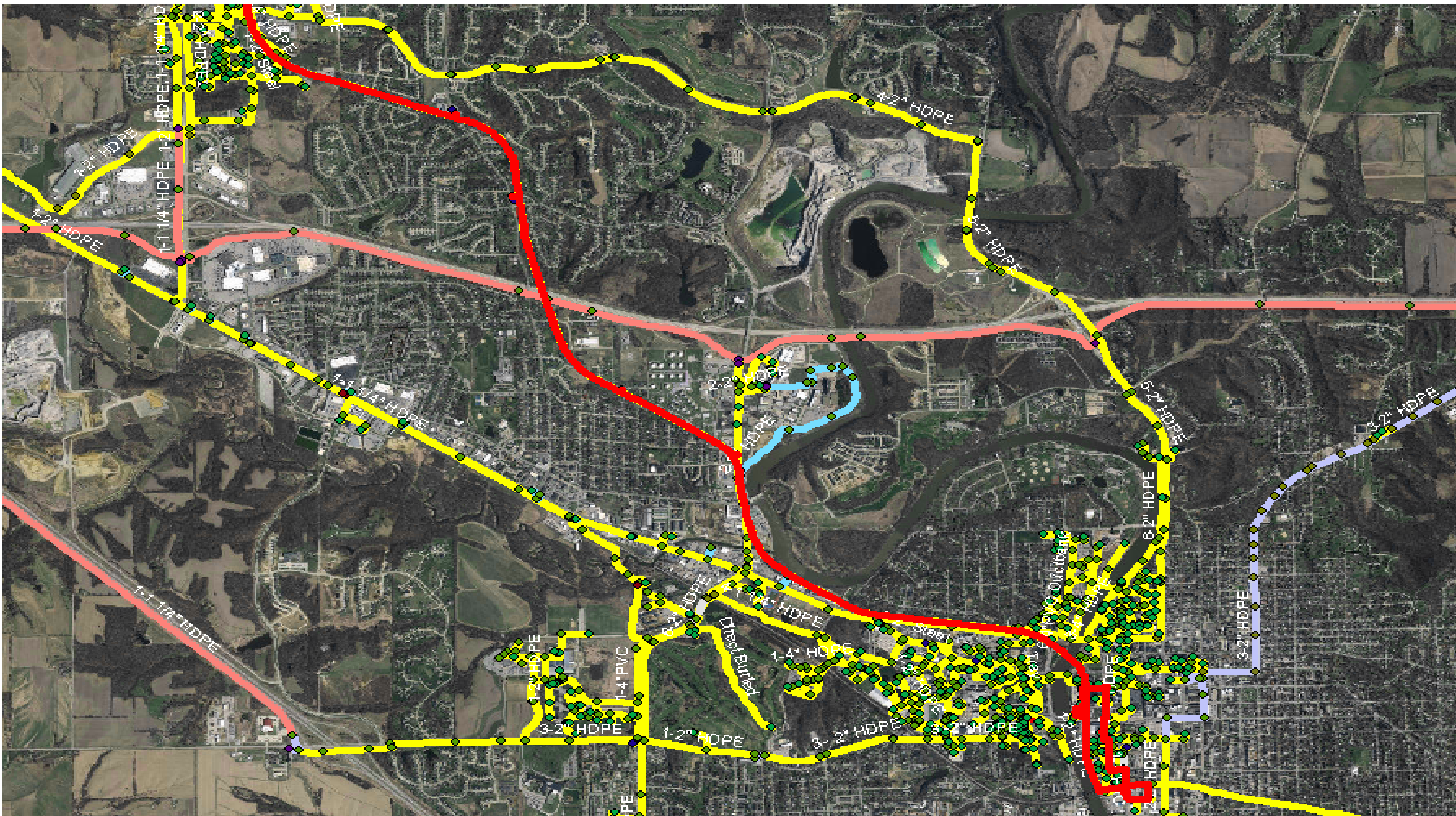
1. Confirm the presence or absence of asbestos in released material. First check the Facilities Management bulk sampling database. If the bulk sample database does not document that the material tested negative for asbestos content, or if the database is not available, report to the site to oversee initial response. As needed, conduct laboratory analysis of suspect material.
2. Evacuate and isolate a known or suspect contaminated area including any construction activity in progress.
3. Facilities Management personnel shall perform initial protective measures:
 - Shut down HVAC system using precautions to avoid exposure
 - Place site under negative pressure using a HEPA-filteredHEPA-filtered negative air machine.
 - Wet suspect material with water, without disturbing released material
 - Restrict site access until remediation is completed or until released material is confirmed as non-asbestos-containing by posting restricted access signs, using barricade tape, or locking entrances with warning signs
4. Determine remedial action needed. Collect air samples and wipe sample of settled dust as needed to determine extent of site contamination.
5. If a fiber release episode is confirmed, notify building occupants.
6. If the release involves over three square or linear feet, Facilities Management must notify the following two agencies:
 - Iowa Division of Labor Services (telephone Jeff Ellis at 515-281-5557)
 - Department of Natural Resources (telephone Tom Wuehr at 515-2817212)
7. Site remediation shall be performed by licensed asbestos abatement workers and overseen by a licensed project manager.

8. Upon remediation completion, the site may be reoccupied with project manager approval.

APPENDIX E

Retained Fiber Connections

Please see attached.



REV No:
TDP No:
UIP No:
W.O. :



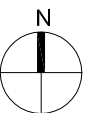
THE UNIVERSITY OF IOWA
Information Technology Services
Enterprise Infrastructure
400 North Hall

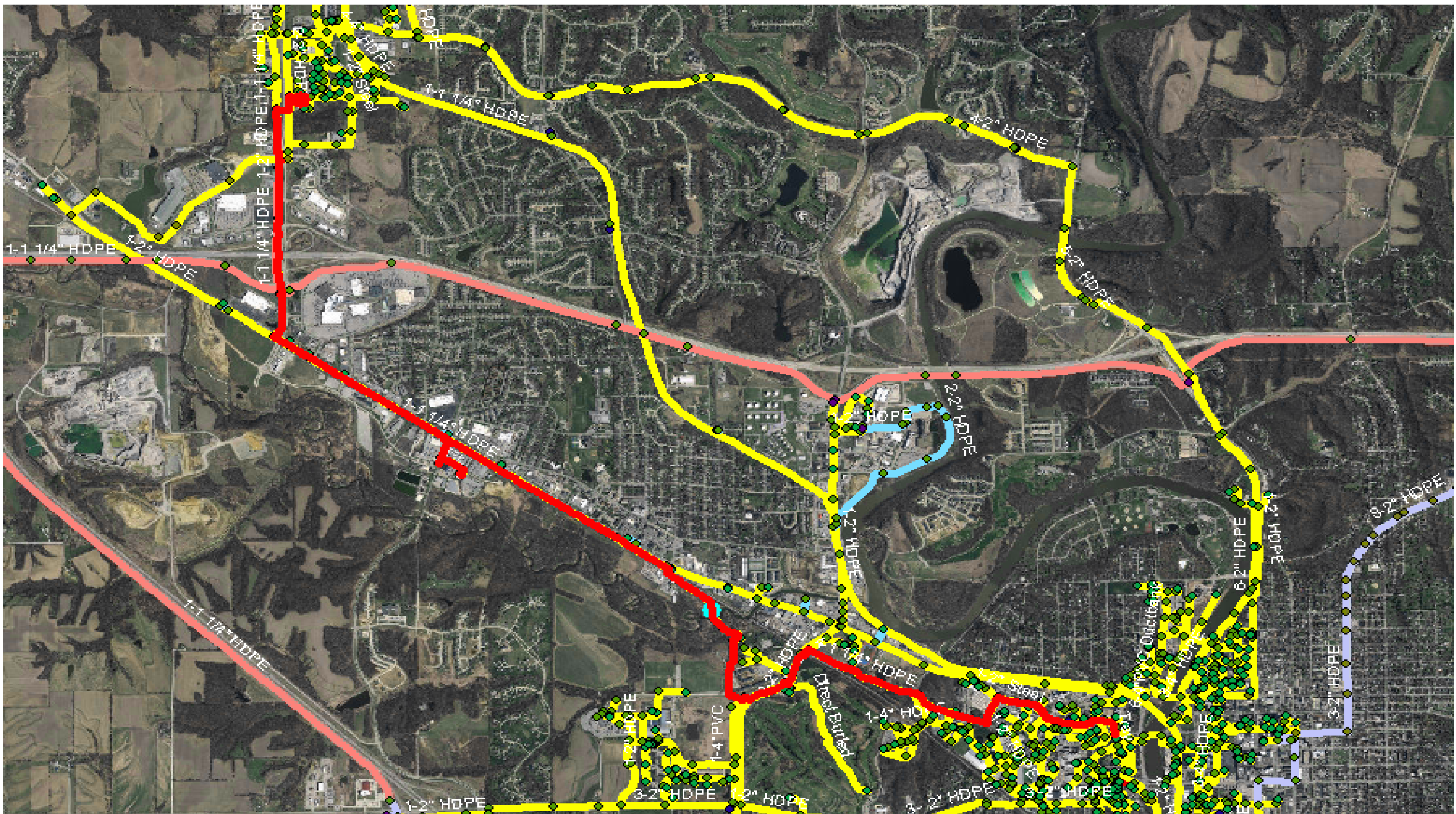


12strands Water Plant - Oakdale Power Plant

BLDG. ABBRV.	BLDG. NO.	DRAWING FILE	DATE ISSUED
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PLOT BY
Chris Hatland
SCALE:





REV No:
TDP No:
UIP No:
W.O. :



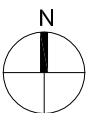
THE UNIVERSITY OF IOWA
Information Technology Services
Enterprise Infrastructure
400 North Hall

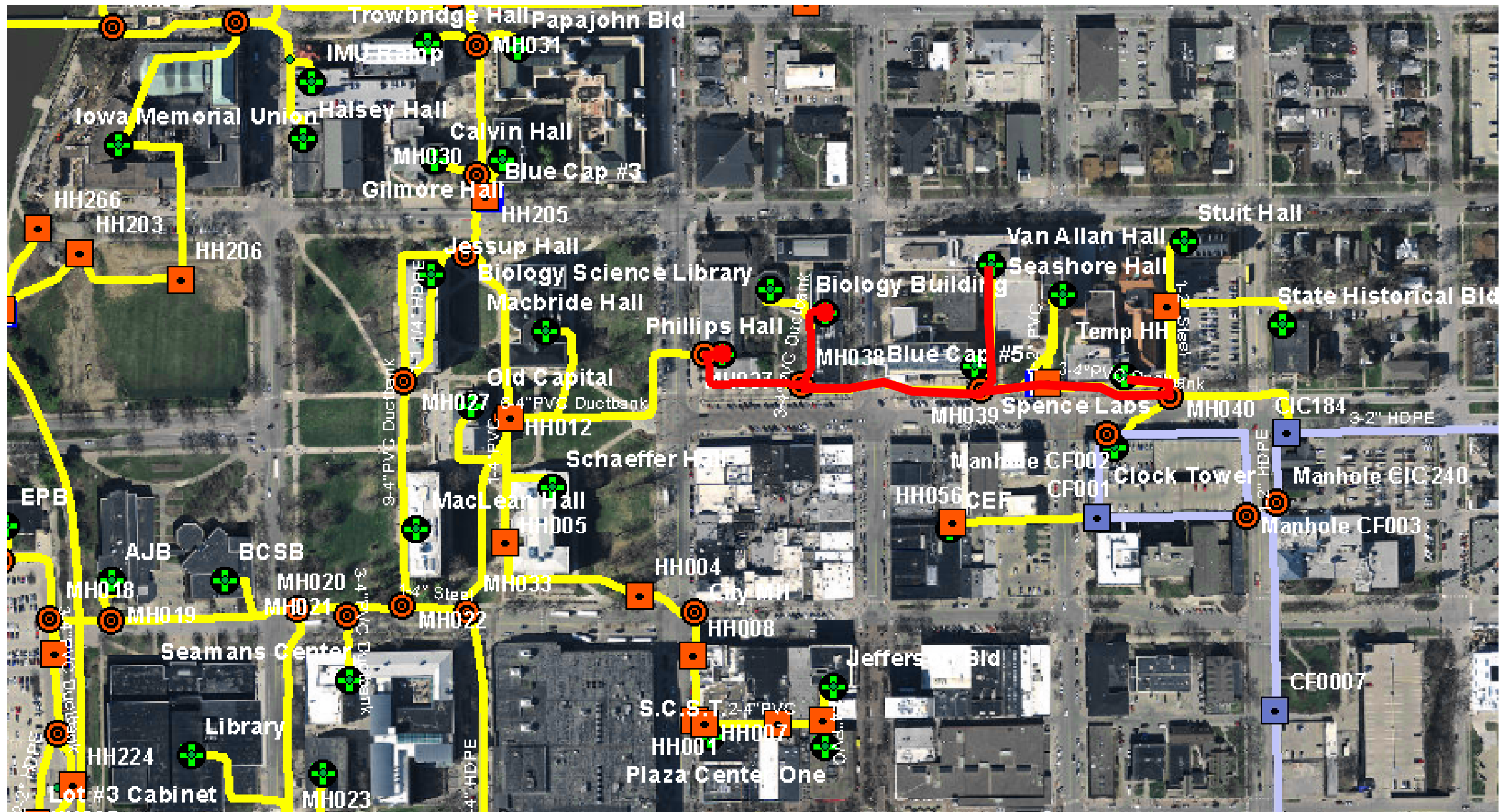


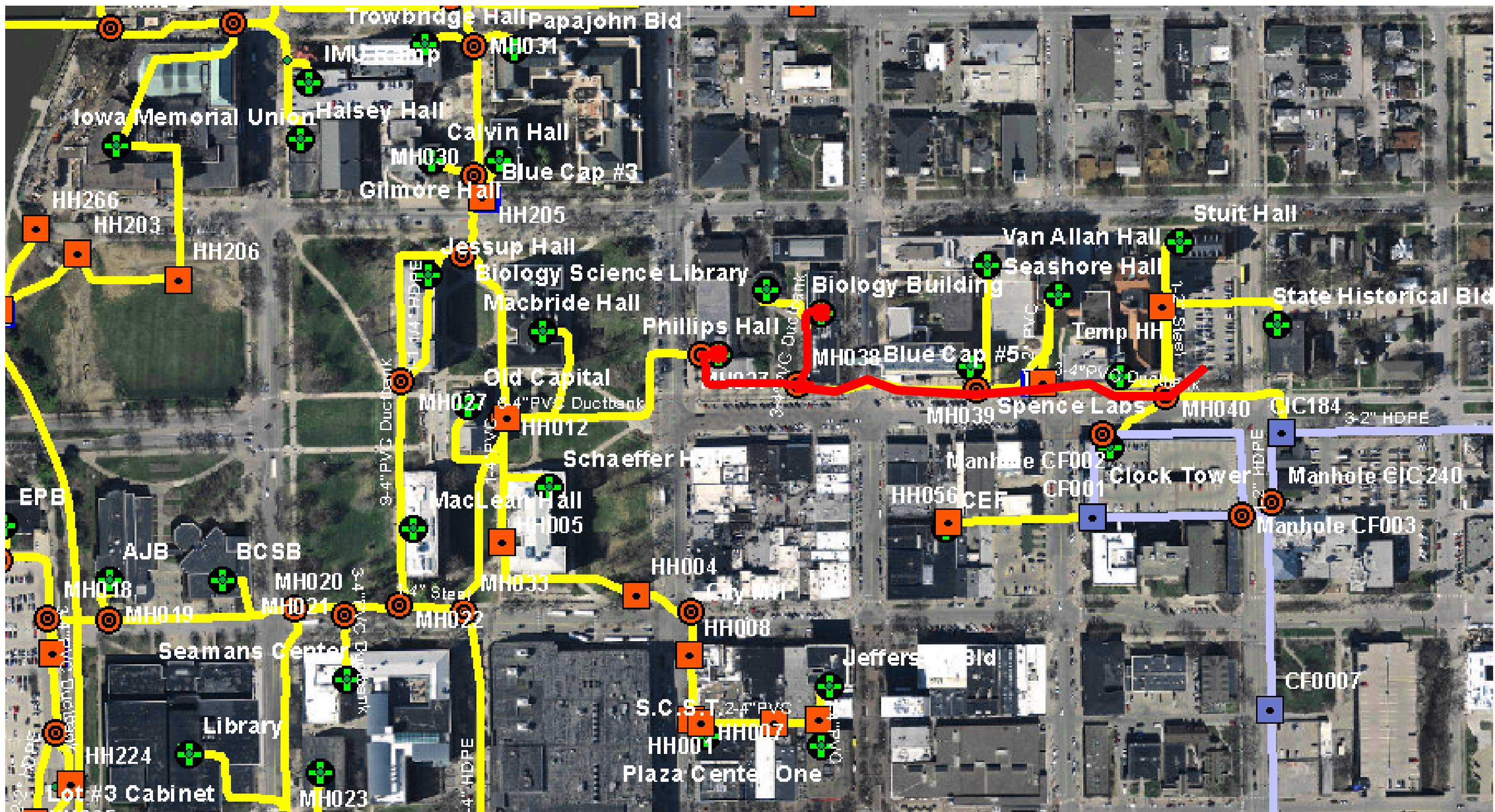
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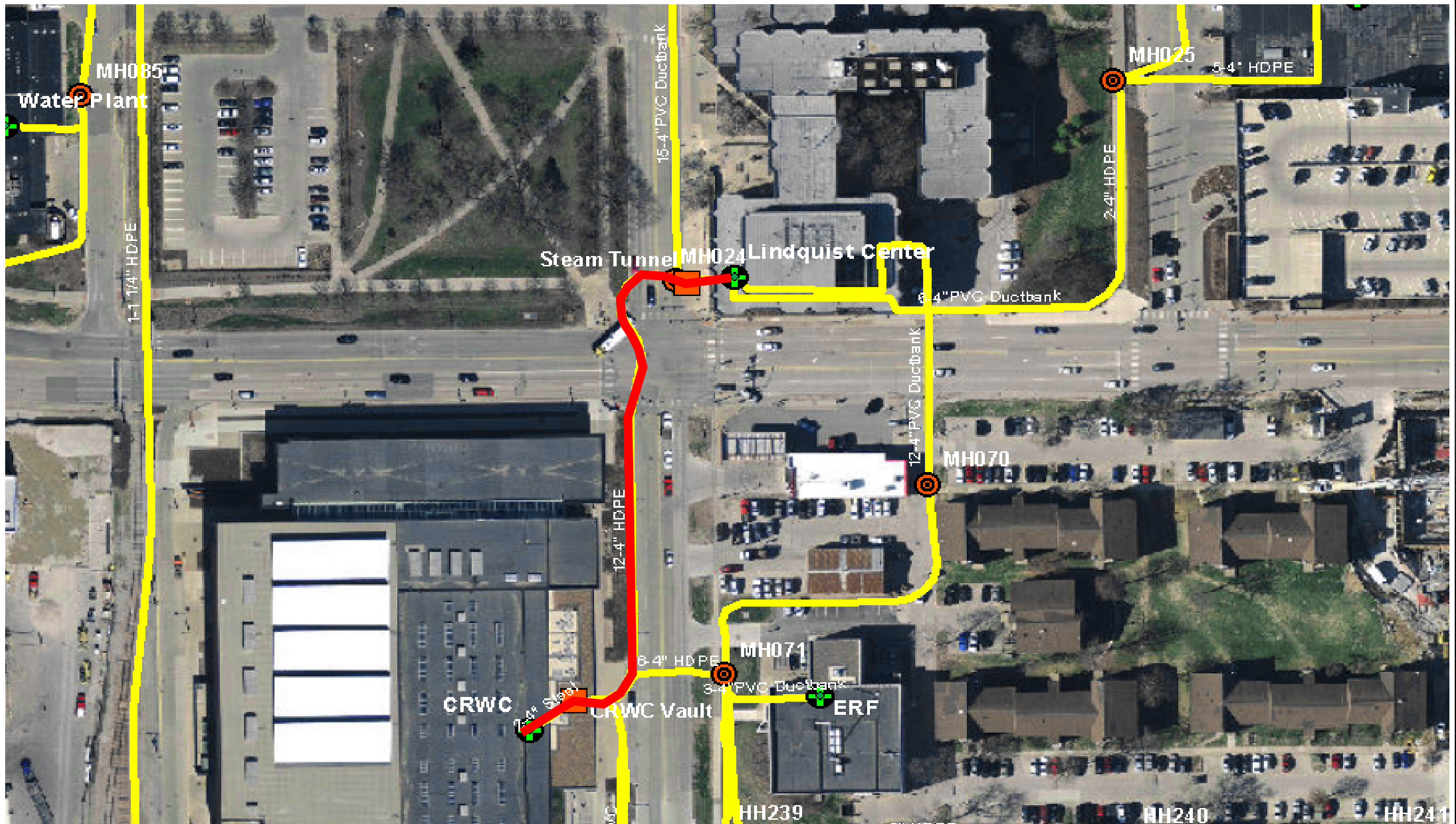
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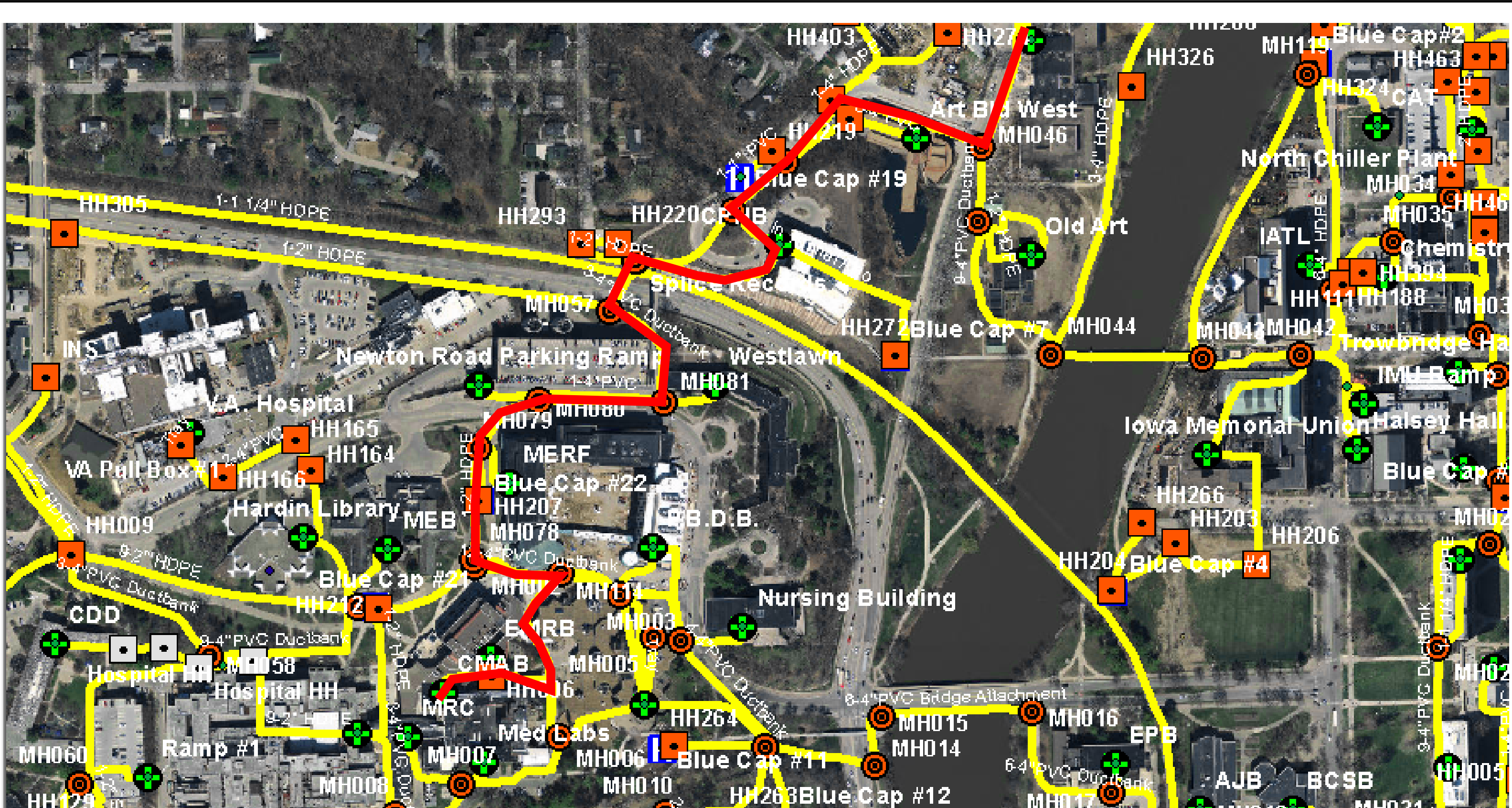
PLOT BY
Chris Hatland
SCALE:

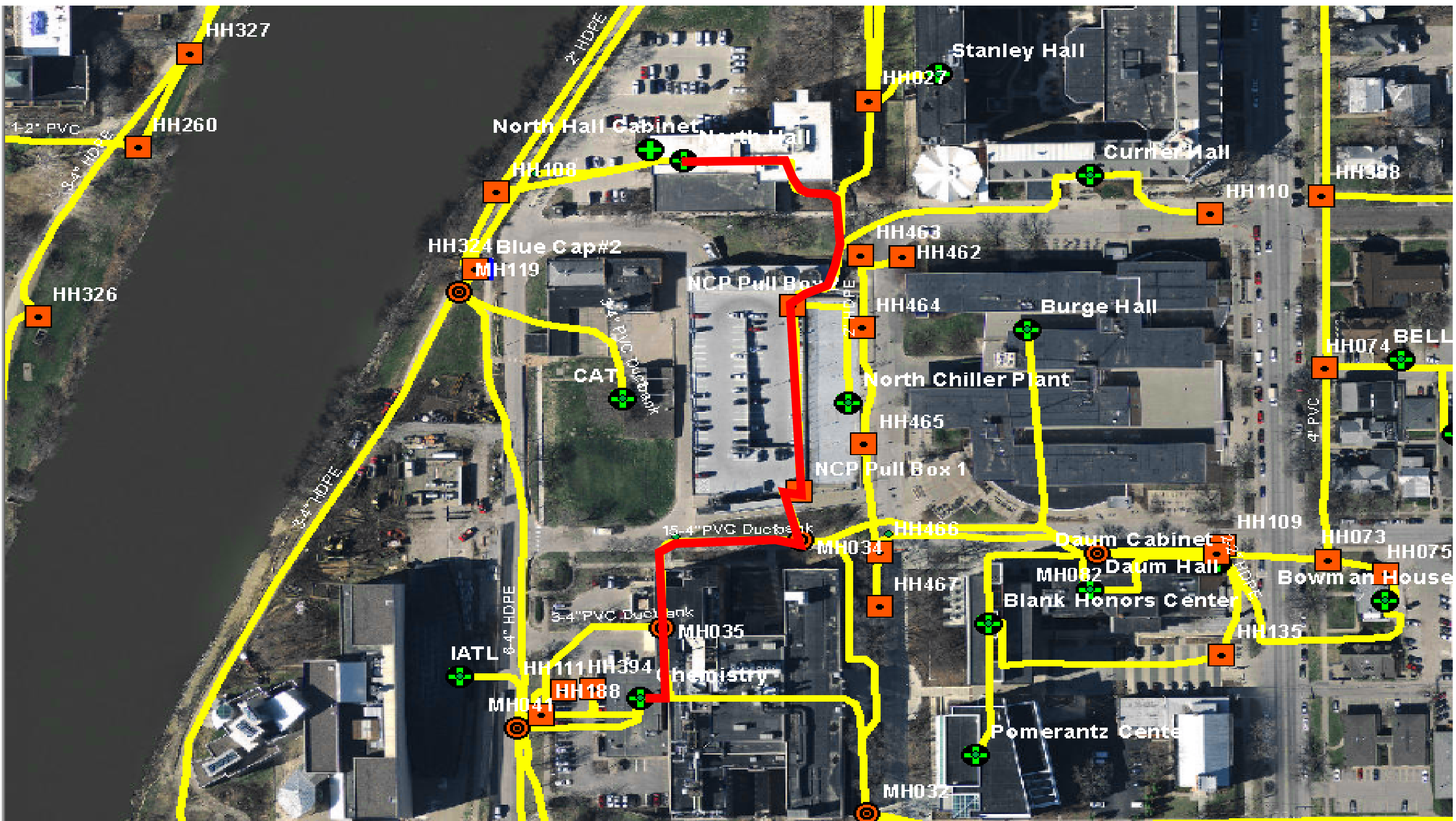












APPENDIX F
Design Standards

Please see attached.

THE UNIVERSITY OF IOWA DESIGN STANDARDS & PROCEDURES

01-31-2019 EDITION



**Facilities
Management**

Design & Construction

The University of Iowa *Design Standards & Procedures* is for use by architects, engineers, interior designers (hereafter referred to as Design Professional) and Commissioning Professionals to ensure the successful delivery of University of Iowa capital projects.

Associate Vice President and
Director, Facilities Management
Donald J. Guckert

Director, Design & Construction
Sadie A. Greiner

Send questions or suggested changes to:
Design Standards & Procedures
c/o Mary Rue
mary-rue@uiowa.edu

Facilities Management
200 University Services Building
The University of Iowa
Iowa City, IA 52242-1922

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INTRODUCTION

The University of Iowa Design Standards & Procedures is for use by Architects, Engineers and Interior Designers (hereafter referred to as Design Professional) to ensure the successful delivery of University of Iowa capital projects. The document represents the collaboration of many with a rich institutional understanding of building function, building systems, operations, landscaping, and construction. It is important that each project effectively balance the needs of the user, the institution, and the stakeholders at The University of Iowa.

Decisions made during the design period create consequences that have a profound impact on the conduct of University business, future operating budgets, and the quality of the campus environment. Because of this, the University of Iowa has developed a comprehensive facilities strategy for long-term stewardship. This approach looks at how the facility will function for the users and occupants, how the operations staff will effectively care for the facility, what resources the facility will consume over its life cycle, and how and when building systems and components will be renewed.

The focus on the total-cost-of-ownership takes on many forms at The University of Iowa and is reflected in our ambitious energy conservation plan, commissioning program, building renewal planning, and campus master planning. The Design Standards & Procedures reflect choices focused on managing cumulative operational costs, such as routine maintenance, minor repairs, preventive maintenance, custodial services, snow removal, grounds keeping, waste management, and utilities. The document is expected to be updated, and Design Professionals are encouraged to present recommendations related to new products, equipment and alternative designs that may assist in achieving the University's stewardship and accountability objectives.

Designing for facilities stewardship starts with an understanding of the institution's qualitative and quantitative priorities. The Design Standards & Procedures exists to assist the Design Professional by setting the minimum institutional requirements for the decision-making involved in projects at The University of Iowa. Additionally, the institution looks for a highly collaborative planning and design process that successfully manages the combination of standards and procedures with the engagement of users, service providers and stakeholders in the pursuit of a successful project for The University of Iowa.

The University values its partnerships with Design Professionals and looks forward to continued success in building The University of Iowa.

The University of Iowa Design Standards & Procedures manual has the following sections:

- Section I: Orientation; describes the general business relations between the Design Professional and University.
- Section II: Design Documentation and Deliverables; lists University codes, standards, and design review requirements to assist Design Professionals in planning and estimating work effort.

Section III: General Design Standards; presents general design principles to be used in the design of University facilities.

Section IV: Outline Specifications and Details; presents design standards and details to be incorporated in specifications and construction documents.

Appendices follow Section IV with additional information supporting this document.

Design Professionals should visit The University of Iowa Facilities Management website for the most current information contained in this document: <http://www.facilities.uiowa.edu>

SECTION I – ORIENTATION

I. THE UNIVERSITY OF IOWA GOVERNANCE

Procurement of architectural and engineering services is governed by the Board of Regents', State of Iowa, policy manual. Chapter 2.3 of the Board of Regents' policy manual outlines specific requirements, procedures, and thresholds regarding capital improvement projects. The University of Iowa (Owner) conforms strictly to these requirements and Design Professionals shall not work ahead of governing approvals.

1. OWNER'S REPRESENTATIVE:

- 1.1. For capital improvement projects, the Owner's Design Project Manager (DPM) is the designated Owner's Representative (OR) through the bidding phase of the project. The DPM is also the Owner's Representative for studies and non-construction services. The Owner's Construction Project Manager (CPM) replaces the DPM as the Owner's Representative during the construction phase of the project following award of the construction Contract to the Constructor.
- 1.2. All instructions and approvals come to the Design Professional from the Owner's Representative.
- 1.3. The Owner's Representative shall manage internal Owner approvals and instruct the Design Professional accordingly.

II. AGREEMENTS BETWEEN THE OWNER AND THE DESIGN PROFESSIONAL

1. GENERAL

- 1.1. The Design Professional shall designate a project manager, who shall represent the Design Professional throughout all phases of the Project, and to whom all communications pertaining to the project shall be addressed.
 - 1.1.1. The Design Professional shall provide an experienced project manager capable of effectively coordinating a multi-disciplined architectural and engineering team.
 - 1.1.2. Any change in the Design Professional's representative during the life of the Agreement between Owner and Design Professional shall be made only after written request by the Design Professional and written concurrence by the Owner's Representative.
- 1.2. The Owner uses an AGREEMENT BETWEEN OWNER AND DESIGN PROFESSIONAL (Agreement) as the contract between the Design Professional and the Owner for all Architecture and/or Engineering design services found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html>.
 - 1.2.1. The Design Professional should review this document carefully, no exceptions to this form shall be allowed.
 - 1.2.2. The Design Professional shall provide all Basic Services as stated in the Agreement.
 - 1.2.3. The Design Professional may contract with Professional Consultants for these services.
 - 1.2.3.1. The employment of Professional Consultants does not relieve the Design Professional from responsibility for the entire project and for the full coordination of services required under the agreement, whether the work is performed by the Design Professional or their Professional Consultants.

- 1.2.3.2. Any change of Professional Consultants during the term of the agreement shall be reviewed and approved by the Owner.
 - 1.2.3.3. The Owner may request the Design Professional hire a specialty consultant to support and/or supplement the services of the Design Professional. The Design Professional shall be responsible for the performance of the specialty consultant per the terms of the Agreement between Owner and Design Professional.
- 1.3. The Owner may engage quality assurance professional services such as code review professionals, commissioning agents, testing and balancing agents and others to ensure compliance with specific project goals and objectives.
- 1.4. Design Professional shall cooperate mutually with the Owner and with any other such Design Professionals that might be employed by the Owner.
- 1.5. The Design Professional shall submit to the Owner a Letter of Proposal – Exhibit A, found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html> which includes the Design Professional's perception of the Owner's project scope of work and recommended scope of services.
- 1.6. The Design Professional shall provide a proposed fee and estimate of reimbursable expenses, project schedule, and other requested information.
 - 1.6.1. Reimbursable and non-reimbursable expense guidelines are described in Exhibit B of the Agreement.
 - 1.6.1.1. Reimbursable expenses shall be approved in advance, paid at actual cost, and accompanied by itemized receipts.
 - 1.6.1.2. When invoicing for reimbursables, complete the Reimbursable Expense Worksheet found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html>.
 - 1.6.2. The Design Professional shall provide an hourly rate schedule for their firm as well as for all of their Professional Consultants. See Schedule of Hourly Fees - Exhibit C found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html>
 - 1.6.3. The Design Professional's proposal shall identify project milestones, including design review document submittals. The Owner shall provide the Design Professional with any Owner schedule requirements.
 - 1.6.4. Basic Services shall include, as a minimum:
 - 1.6.4.1. All design review meetings,
 - 1.6.4.2. A pre-bid meeting,
 - 1.6.4.3. A written bid evaluation,
 - 1.6.4.4. A pre-construction meeting,
 - 1.6.4.5. Construction progress meetings,
 - 1.6.4.6. Punch list inspection(s),

1.6.4.7. Final inspection, unless waived by the Owner.

- 1.7. Proof of insurance, as required and specified in the Agreement, shall be submitted for approval with the signed agreement, unless previously provided to the Owner. The Agreement will not be executed nor will payments be approved without proof of insurance.
- 1.8. Payments will not be processed until an executed agreement is on file.
- 1.9. If the Design Professional believes additional services are requested by the Owner that are beyond the scope of services defined by the Agreement, the Design Professional shall notify the Owner immediately and seek approval, prior to proceeding with the services. The original agreement shall be amended for any additional services agreed to by both parties.
- 1.10. The Design Professional shall submit requests for amendments to the Agreement using the Amendment Letter of Proposal found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html> for any request for additional fees, prior to proceeding with the additional services. Upon award of the construction Contract, additional fees are not allowed for services provided during the Design Phase.
- 1.11. The Design Professional's payment requests shall be submitted through Build UI. Invoices shall be submitted in the Owner's invoice format <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html>.
- 1.12. The Owner may use the STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONSULTANT (Special Services), found at <http://www.facilities.uiowa.edu/pdc/consultants/agreement-form.html>, depending on project scope and desired services.

III. GENERAL

1. STANDARD OF CARE:

- 1.1. The Design Standards document in its entirety and other written instructions from the Owner (including review comments) to the Design Professional, establish an expectation of the standard of care to be employed by the Design Professional in pursuit of the performance of their work.
- 1.2. The Design Professional shall promptly notify the Owner of any conflicts between Owner-provided instructions, documents, codes, standards, other instruments, and Owner program requirements related to the project. The Design Professional may be held financially responsible for resolving conflicts that were not brought to the Owner's attention.
- 1.3. Marked review documents and written instructions from the Owner not incorporated into the design by the Design Professional prior to bidding shall be documented by the Design Professional and approved by the Owner.
- 1.4. The Design Professional shall be financially liable for deviations from this document, marked review drawings, and written instructions, unless deviations are approved by Owner in writing.
 - 1.4.1. Requests to deviate from these Design Standards and Procedures, on a project-by-project basis, may be made to the Owner by submitting a Deviation Request Form, found at <http://www.facilities.uiowa.edu/pdc/designstandards/index.html>

2. DESIGN AND CONSTRUCTION DOCUMENT GUIDELINES:

- 2.1. Each project is given an official title which the Design Professional shall use consistently on all documents.

- 2.2. All documents submitted to the Owner shall include:
 - 2.2.1. Date
 - 2.2.2. Owner's project number (Build UI)
 - 2.2.3. Project title
- 2.3. All electronic files submitted to the Owner shall follow the following format structure: Project # - Subject – date. Subject examples include mtg. min., cost est., exhibit, memo, etc.
- 2.4. The term "Project Manual" refers to the written portion of the Construction Documents: Form of Bid, General Conditions, Institution Requirements, Project Requirements, and Technical Specifications.
- 2.5. The Project Manual shall be prepared using Microsoft Word (.docx), latest version.
- 2.6. The term "Drawings" refers to the graphic portrayal of elements included within the scope of the Construction Documents.
- 2.7. Drawings shall be prepared using Architectural Desktop or AutoCAD (.dwg), latest version, or a program 100% compatible with AutoCAD, latest version.
 - 2.7.1. All drawings submitted to the Owner shall include:
 - 2.7.1.1. Date
 - 2.7.1.2. Owner's project number (Build UI)
 - 2.7.1.3. Project title
 - 2.7.1.4. Design Professional firm name.
 - 2.7.1.5. Graphic scale and orientation of drawing (if applicable)
 - 2.7.1.6. Individual sheet title
 - 2.7.1.7. Alphanumerical number indicating discipline and sheet number
 - 2.7.2. Drawings shall be size D sheets (24 inches x 36 inches), unless otherwise directed by the Owner.
 - 2.7.3. Drawing sets shall be no more than 125 sheets per volume, unless otherwise directed by Owner.
 - 2.7.4. Drawings shall be segregated into disciplines (Architectural, Civil, Structural, Mechanical, Plumbing, Electrical, Interior, Fire Protection Systems, etc.)
 - 2.7.5. All .dwgs files shall have x-refs bound, no bubbles, and raster attachments included.
 - 2.7.5.1. Entities created with AutoCAD extensions shall be exploded or exported so they are correctly represented in AutoCAD, AutoCAD Map, or AutoCAD Architectural Desktop.
 - 2.7.5.2. Entities (trees, manholes, etc.) shall be represented with blocks, not with "Civil 3D points". The purge command shall be invoked to delete all unreferenced blocks, layers, and line types.

2.7.6. Layering Guidelines:

2.7.6.1. AutoCAD drawings shall comply with the current American Institute of Architects (AIA)/National Institute of Building Sciences (NIBS) National CAD Standard layer naming format.

2.7.6.2. Fonts supplied with current version of AutoCAD shall be used.

2.7.7. The Design Professional shall create and submit both full- and half-sized .pdfs.

2.8. If BIM is utilized on a capital improvement project, the deliverable format shall be Autodesk Revit (.RVT). The BIM authoring software shall be Autodesk Revit Architecture. MEP, Structure, and the Coordination (clash detection) software shall be Autodesk Navisworks.

2.8.1. The Design Professional shall convert all electronic documents to Adobe Portable Document Format (.pdf) and shall provide the electronic documents to Owner on CD, DVD, or encrypted flash drive, and/or publish to the Owner's web site, Build UI.

2.9. Format for all electronic documents on CD(s), DVD(s), or flash drives shall be as follows:

2.9.1. The Project Manual shall read "Construction Set" or "Record Documents" as appropriate on the front cover, shall be a multi-page .pdf, and shall have blank pages inserted.

2.9.2. Drawings shall be dated, labeled "Construction Set" or "Record Documents", as appropriate, in both the revision area of the title block and on the cover. Include both single page .pdfs and .dwgs files. Name electronic files as follows: "project number - sheet number - sheet title".

2.9.3. The CD(s) or DVD(s) shall be labeled with the project number, project title, and "Construction Set" or "Record Documents", as appropriate.

2.9.4. The .pdfs created from AutoCAD file shall be made using the plot command to ensure the .pdf files will display all information correctly. "Convert to Adobe PDF" menu option or toolbar button shall not be used.

3. SERVICE GUIDELINES:

3.1. The Design Professional shall conduct an appropriate review of existing conditions as a part of the Basic Services for all projects with work within existing facilities. The Owner shall make existing documentation available to the Design Professional, upon request.

3.2. The Design Professional shall develop economically justified designs within the prescribed budget and space allocations. The Owner manages the total project budget. The Design Professional is required to design to the construction budget.

3.2.1. Design to obtain the lowest life-cycle cost consistent with a high-quality facility.

3.2.2. The Design Professional shall work to develop a design whereby the Base Bid accounts for approximately 95% of the approved construction budget to allow for budget protection on bid day. The balance of the construction budget shall be accommodated with additive bid alternates so that an award may be made utilizing 100% of the approved construction budget.

- 3.2.3. If bid alternates are included in the design, they shall be additional to the base bid design and shall be listed in order of importance. Unless approved by the Owner, no more than four (4) additive alternates shall be allowed.
- 3.3. The Design Professional shall perform a project code analysis.
 - 3.3.1. The Design Professional shall reference applicable codes and editions and note the occupancy, construction type, egress conditions, and other information necessary.
 - 3.3.2. The code analysis shall note any potential nonconforming construction.
 - 3.3.3. Failure of design work to meet the established University basic building codes shall result in redesign at no cost to the Owner and reimbursement by the Design Professional to the Owner for non-value added modifications.
- 3.4. The Design Professional shall notify the Owner's Representative of Owner-related delays so as not to impact the design schedule.
- 3.5. In order to meet institutional design criteria, the proposed design may be periodically reviewed by the Campus Planning Committee.
- 3.6. The Design Professional shall assist the Owner in obtaining all necessary permits.
- 3.7. Building permits are not required for construction on the Owner's property.
 - 3.7.1. Work on buildings off campus (usually leased property) or new construction located in flood plain areas may require building permits or special clearance from governmental agencies.
 - 3.7.2. Building permits are required through the State Building Code Division for all state building or significant renovation projects.
- 3.8. The Design Professional shall work with the Iowa State Fire Marshal's Office. As a minimum:
 - 3.8.1. Notify State Fire Marshal of project.
 - 3.8.1.1. Submit exemption form.
 - 3.8.1.2. Submit and conduct informal preliminary review.
 - 3.8.1.3. Conduct formal final review and submit final sealed documents for approval.
 - 3.8.2. Buildings subject to state inspection shall not be occupied until a Certificate of Occupancy (partial or temporary certificates included) has been issued by the State Fire Marshal's Office.
 - 3.8.3. The Design Professional shall account for this activity in the project schedule.
- 3.9. The Design Professional shall advise the Owner if the project requires a construction activity that is outside of the University's property line. The Design Professional shall assist the Owner in the preparation of any material needed for appropriate submittals that may include permits, easements, and traffic control drawings.
 - 3.9.1. The Owner shall contact appropriate agency to discuss project needs. Agencies include, but are not limited to:

- 3.9.1.1. Iowa Department of Transportation (IDOT)
- 3.9.1.2. City of Iowa City
- 3.9.1.3. City of Coralville
- 3.9.1.4. Cedar Rapids and Iowa City (CRANDIC) Railroad
- 3.9.1.5. Iowa Interstate Railroad
- 3.9.1.6. Federal Aviation Administration
- 3.9.1.7. Corp of Engineers
- 3.9.1.8. Iowa Department of Natural Resources

3.10. The Design Professional shall provide complete and timely submittals of Design Development and Construction Documents.

3.10.1. The Design Professional shall allow a minimum of two (2) weeks for the Owner's review between submittal of review documents and the review meeting.

3.10.1.1. The Owner considers the milestone achieved only when the review is complete.

3.10.1.2. Incomplete review documents may delay the completion of a document review.

3.10.2. The Design Professional shall utilize Bluebeam to compile design development and construction document submittal comments and responses.

3.10.3. The Owner shall review the Design Professional's work for program conformance and constructability. The Owner's Representative is authorized to reject incomplete document submittals.

3.10.4. The Design Professional is responsible for the management and performance of its Professional Consultants. Delay on a Professional Consultant's part of a document submittal is considered an incomplete submittal from the Design Professional.

3.10.5. Delay of a project due to incomplete document submittals is the responsibility of the Design Professional.

3.11. Prior to the project being advertised, the Design Professional shall obtain the Owner's required Bidding Documents (specifications), found at <http://www.facilities.uiowa.edu/pdc/fmspecdocs.html>, ensuring the most current version is utilized. The DPM/CPM shall work with the Design Professional to tailor bidding documents for the project including, but not limited to, the Form of Bid and Project Requirements.

3.12. If directed by the Owner, the Design Professional shall submit Drawings and Specifications, at Schematic and subsequent phases, to the Iowa Department of Public Safety, State Building Code Division for approvals.

3.12.1. Fees associated with submittals to the Iowa Department of Public Safety are to be paid by the Design Professional and submitted to the Owner as a reimbursable expense.

3.13. Meetings and Stakeholders:

- 3.13.1. Owner projects may include academic, student, and service groups as stakeholders in a project. The Owner's Representative arranges and coordinates the Design Professional's contact with these groups.
- 3.13.2. All project meetings shall be scheduled by the Owner.
- 3.13.3. In advance of project meetings, the Design Professional shall review the meeting agenda with the Owner's Representative.
- 3.13.4. The Design Professional shall conduct effective and productive meetings. The Design Professional, and their appropriate consultants, are expected to be present at design and construction meetings.
- 3.13.5. Meeting minutes shall be kept by the Design Professional and reviewed by the Owner before issue. Following review, the Design Professional shall distribute the meeting minutes to all participants.
- 3.14. The Owner shall coordinate the advertisement for the project after the final Construction Documents have been reviewed and approved, including setting the advertisement date.
- 3.15. The Design Professional shall coordinate the printing and distribution of the Documents and Addenda with Facilities Management - Design & Construction project support, 319-335-5500, facilities-dcs@uiowa.edu, and the Owner's printing vendor.
 - 3.15.1. Owner's printing vendor will distribute the Construction Documents for bidding, including any Addenda, and maintain the plan holders list.
- 3.16. The Design Professional shall coordinate with the Owner to schedule a pre-bid meeting.
 - 3.16.1. The Design Professional shall record and clarify all contractor questions during the bidding period and shall confirm agreement by the Owner for any changes to the Construction Documents.
 - 3.16.2. The Design Professional shall issue an Addenda for any changes agreed to by the Owner.
- 3.17. The Design Professional shall review the local bidding climate prior to the issuance of the bidding documents.
 - 3.17.1. The size and composition of projects shall be considered to encourage competitive bidding.
 - 3.17.2. If it appears a conflict among projects may occur in the bidding market, the rescheduling of the bids shall be considered, if time allows, and if rescheduling will result in additional bids.
- 3.18. To determine if there is adequate interest in the project, the Design Professional shall review the plan holders list after the project has been on the market for seven (7) to ten (10) days.
 - 3.18.1. The Design Professional shall contact prospective bidders to encourage an adequate level of interest and suggest modifications that may be appropriate to achieve bidder interest.
 - 3.18.2. If little interest is shown in the project, the Design Professional shall contact potential bidders, determine the cause and shall share this information with the Owner.
- 3.19. The Design Professional of record, and all other appropriate Professional Consultants, shall place their individual information blocks, with certifications, seals, signatures, and dates, on the original title page of the Construction Documents issued for Bid (drawings, specifications, and addenda). The information block shall include the numbers of the pages or sheets which are covered by certification.

- 3.20. The Owner shall conduct a public bid opening for all projects with construction estimates exceeding \$100,000. The Design Professional shall attend the bid opening, if requested by the Design Project Manager.
- 3.21. Informal bid openings are conducted for projects with construction estimates less than \$100,000. The Design Professional is not required to be present for the bid opening.
- 3.22. The Design Professional shall evaluate bids received.
- 3.23. The Owner shall schedule a pre-construction meeting following award of the construction Contract.
- 3.24. Communications between the Design Professional and the Constructor during construction, including letters, memos, directives, etc., shall flow through the Owner's Representative, with the exception of Constructor shop drawings.
- 3.24.1. Shop drawings and submittals:
- 3.24.1.1. The Design Professional shall establish and administer the submittal process per the following requirements, unless otherwise directed by the Owner:
- 3.24.1.1.1. The following action codes shall be used when reviewing Constructor shop drawings and submittals:
- 3.24.1.1.1.1. R – Reviewed
- 3.24.1.1.1.2. RAN - Reviewed as Noted
- 3.24.1.1.1.3. R&R - Revise and Resubmit
- 3.24.1.1.1.4. NAR - No Action Required
- 3.24.1.1.1.5. F&E - Fabrication and Erection
- 3.24.1.1.2. Projects with construction estimates less than \$500,000, or without complexity, shall use email for review, approval, and tracking of required submittals.
- 3.24.1.1.2.1. Constructors shall submit shop drawings and submittals directly to the Design Professional for review:
- 3.24.1.1.2.1.1. Shop drawings and submittals shall be reviewed and returned to the Constructor with comments within two (2) weeks, unless otherwise agreed upon, in writing, by all parties.
- 3.24.1.1.2.1.2. The Design Professional shall copy the Owner's Representative on all shop drawing and submittal responses.
- 3.24.1.1.3. Projects with construction estimates greater than \$500,000, or of complexity, shall use Submittal Exchange for review, approval, and tracking of required submittals.

- 3.24.1.1.3.1. The Design Professional shall contact Shelley Gaston (shelley.gaston@oracle.com or (515) 631-6548) with Submittal Exchange to set up a project.
- 3.24.1.1.3.1.1. Subscription costs for Submittal Exchange shall be included in the Design Professional Agreement as a reimbursable expense.
- 3.24.1.1.3.2. The Design Professional shall review project specific expectations and set up of Submittal Exchange with the Construction Manager, including:
 - 3.24.1.1.3.2.1. Development of project team list and user rights.
 - 3.24.1.1.3.2.2. Customization of tabs and sections per The University of Iowa Submittal Exchange template.
- 3.24.1.1.3.3. Submittal Exchange shall be operational a maximum of seven (7) days following bid opening.
- 3.24.1.1.3.4. The Design Professional shall coordinate project team access and user rights.
- 3.24.1.1.3.5. The Design Professional shall use the following formatting and naming conventions when using Submittal Exchange:
 - 3.24.1.1.3.5.1. Consultants and subconsultants shall add their company name to the naming convention: specification section-submittal number-revision-NAME-action code (00 33 30-025-0-UI-RAN)
 - 3.24.1.1.3.5.2. Submittal electronic files shall use the following naming convention: specification section-submittal number-revision number-final-action code (00 33 30-025-0-final-RAN)
- 3.25. The Design Professional shall use the Owner's project communications web site, Build UI, for Change Order management and for payment applications, to enhance communications and storage of contract change document information.
 - 3.25.1. Change Order management includes Requests for Information (RFI), Instructions to Contractor (ITC), and Change Authorization Request (CAR).
 - 3.25.2. The Design Professional shall review all change order pricing and issue written responses within five (5) working days following receipt. Change orders exceeding \$10,000 shall require a detailed, itemized estimate to include labor, equipment and material; plus applicable overhead and profit margins.
- 3.26. The Design Professional shall visit the construction work site in accordance with the construction progress meetings.
 - 3.26.1. The Design Professional shall coordinate with the Constructor in-wall and above-ceiling inspections.

- 3.26.2. Submit site observation reports to the Owner's Representative for each site visit conducted.
- 3.27. The Design Professional shall review and make recommendations on HVAC testing and balancing reports and quality control/quality assurance test reports conducted as part of the project.
- 3.28. The Substantial Completion inspection shall be scheduled by the Owner's Representative.
 - 3.28.1. The Design Professional shall inspect the work, system-by-system and room-by-room and make a record of deficiencies or corrections (punch list) required to fully comply with the construction Contract.
 - 3.28.2. The Design Professional shall send the final punch list, organized by room, system, or area, to the Owner, who shall make it available to the Constructor.
- 3.29. The Design Professional shall update the construction documents (drawings and project manual) as necessary to track all changes from bidding through final acceptance for Record Documents.
- 3.30. The Design Professional's final payment will not be released until all services are completed, including, but limited to, turnover of final shop drawings submittals, record documents (drawings and project manual), and operation and maintenance manuals.

END OF SECTION I - ORIENTATION

SECTION II - DESIGN DOCUMENTATION AND DELIVERABLES

This section contains information to be used by Design Professionals in the planning, design and development of University facilities.

The criteria is presented to compliment the Section III - General Design Standards. The Design Professional shall familiarize themselves and shall be responsible for implementing all criteria and guidelines.

The Design Professional shall plan and design facilities with consideration given to serviceability, maintainability, and sustainability of these facilities.

The University employs a total-cost-of-ownership decision framework for project designs; considering, on a present value basis, the initial capital cost, annual operating costs, and future expected renewal costs over the life of the facility that will yield the lowest total cost.

I. DESIGN GUIDELINES

1. GENERAL

- 1.1. University facilities shall comply with all applicable codes as adopted by the State of Iowa or other governing authorities.
- 1.2. University facilities shall be designed with flood protection/mitigation up to the 500 year flood level plus 2 feet 0 inches.
- 1.3. Codes and standards required by accreditation agencies, such as the Joint Commission for Accreditation of Hospitals (JCAHO), shall also be used unless the International Code Council (ICC) requirements are more stringent.
- 1.4. In the event that special design features and/or construction systems are not covered in the ICC codes, it shall be approved by the State Building Code Bureau, a division of the State Fire Marshal Office.
- 1.5. The Design Professional shall incorporate the University of Iowa's 20/20 Vision when designing projects:
<http://sustainability.uiowa.edu/assets/Uploads/2020-Vision-UIowa-Sustainability-Targets.pdf>
- 1.6. Design shall comply with the Board of Regents, State of Iowa, Campus Sustainability – Part II requirements, including LEED Certification. Requirements found at the following link:
http://www.regents.iowa.gov/Meetings/DocketMemos/09Memos/March/0309_ITEM15.pdf
- 1.7. The Design Professional shall lead and manage the LEED design and certification process.
 - 1.7.1. Owner shall review Credit Interpretation Requests (CIR) prior to submittal.
 - 1.7.2. Upon receipt, CIR results shall be submitted to the Project Manager and Design & Construction's LEED Resource.
- 1.8. The Design Professional shall work with the Owner to incorporate any required Art in State Building work into the project as required. The procurement of the art work shall be by Owner.
- 1.9. Asbestos-containing materials shall not be used.

- 1.10. The Design Professional shall breakout the costs to bring utilities (steam, chilled water, electric, domestic water, and sanitary sewer) to within 300 feet of the building footprint when utility rates are charged to the project customer.

2. BUILDING AREAS

- 2.1. Gross Area is the sum of all areas on all floors of a building included within the outside faces of its exterior walls, including all vertical penetration areas, for circulation and shaft areas that connect one floor to another.
 - 2.1.1. Calculate Gross Area by measuring from the outside faces of exterior walls, disregarding cornices, pilasters, buttresses, etc., that extend beyond the wall faces.
 - 2.1.2. Exclude areas having less than a 3-foot clear ceiling height.
 - 2.1.3. In addition to internal floored areas, Gross Area includes:
 - 2.1.3.1. Excavated basement areas
 - 2.1.3.2. Interstitial spaces (i.e., mechanical floor or walkways)
 - 2.1.3.3. Mezzanines
 - 2.1.3.4. Penthouses
 - 2.1.3.5. Attics
 - 2.1.3.6. Garages
 - 2.1.3.7. Covered porches, whether walled or not
 - 2.1.3.8. Inner or outer balconies to the extent of a drip line from a roof or balcony immediately above, whether walled or not, if they are used for operational functions
 - 2.1.3.9. Corridors or walkways, whether walled or not, provided they are either within the outside face lines of the building to the extent of the roof drip line or, if covered, to the extent of their cover's drip line.
 - 2.1.3.10. The footprints of stairways, elevator shafts, and vertical duct shafts are counted on each floor through which they pass.
 - 2.1.3.11. The top, unroofed floor of parking structures where parking is available.
- 2.2. Net assignable area is the sum of all areas on all floors of a building assigned to, or available for assignment to, an occupants or specific use. Areas defined as building service (i.e., public rest rooms, spaces), circulation, mechanical (including electrical and telecommunications closets) and structural are not included.
 - 2.2.1. Calculate net assignable area by measuring from the inside faces of surfaces that form the boundaries of the designated areas.
 - 2.2.1.1. Exclude areas with less than a 3-foot clear ceiling height.

- 2.2.1.2. Do not make deductions for necessary building columns and projections.
- 2.3. Non-assignable area is the sum of all areas on all floors not available for assignment to an occupant for specific use, but necessary for the general operation of the building.
 - 2.3.1. Areas defined as building service (i.e., public restrooms, custodial spaces)
 - 2.3.2. Circulation areas
 - 2.3.3. Mechanical areas (including electrical and telecommunications closets).
 - 2.3.4. Measure from the inside faces of surfaces that form the boundaries of the designated areas.
 - 2.3.5. Exclude areas with less than a 3-foot clear ceiling height.

II. BUILDING CODES AND STANDARDS

1. BUILDING CODES

- 1.1. Codes that apply to University design and construction include, but are not limited to:
 - 1.1.1. ICC International Building Code and reference standards
 - 1.1.2. ICC International Fire Code
 - 1.1.3. Uniform Plumbing Code
 - 1.1.4. ICC International Mechanical Code
 - 1.1.5. ICC International Energy Conservation Code
 - 1.1.6. NFPA 70 National Electric Code (NEC)
 - 1.1.7. ADA Standards for Accessible Design
 - 1.1.8. NFPA 101 Life Safety Code, 2000 Edition, applicable to only health care providing facilities (UIHC)
 - 1.1.9. American Society of Mechanical Engineers (ASME) Safety Code of Elevators and Escalators A17.1 (1996) and other codes as adopted by The Iowa Division of Fire Safety, Elevator Safety Unit.

2. IOWA ADMINISTRATIVE CODE

- 2.1. Chapters that apply to University design and construction include, but are not limited to:
 - 2.1.1. Public Safety [661], Chapter 5, "Fire Marshal," (current edition)
 - 2.1.2. Public Safety [661], Chapter 16, "State of Iowa Building Code"
 - 2.1.3. Public Safety [661], Chapter 18, "Parking for Persons with Disabilities"
 - 2.1.4. Public Safety [661], Chapter 303, "Requirements For Energy Conservation In Construction"
 - 2.1.5. Environmental Protection Commission [567]

- 2.1.6. Labor Services [875], Chapter 72, “Conveyances Installed on or After January 1, 1975”
- 2.1.7. Chapter 89A, “Elevators” (Iowa Code)
- 3. FEDERAL REGULATION, CHAPTER 40, PART 112 “OIL POLLUTION PREVENTION”
 - 3.1. The Design Professional shall comply with the Owner’s SPCC requirements. A copy of the Owner’s SPCC plan is available on request.
- 4. CODE CHANGE ADMINISTRATION AND VARIANCES
 - 4.1. For any new editions of applicable codes adopted during the course of the design, the Design Professional shall obtain Owner direction on whether the new codes apply to the project.
 - 4.2. The Design Professionals shall list the applicable codes in the Project Manual and on code check / fire life safety drawings.
 - 4.3. Design Professional shall request approval to seek Code Variances in writing from the Owner.
 - 4.3.1. A Code Variance request must include:
 - 4.3.1.1. Explanation of the situation,
 - 4.3.1.2. Applicable codes,
 - 4.3.1.3. Reason why code compliance is not possible,
 - 4.3.1.4. Copies of:
 - 4.3.1.4.1. Referenced codes
 - 4.3.1.4.2. Informational sketches
 - 4.3.1.4.3. Drawings
 - 4.3.1.4.4. Calculations
 - 4.3.1.4.5. Supporting material
 - 4.3.1.5. Discussion and recommendation related to the impact on building use and occupant safety.
 - 4.3.1.6. Discussion and recommendation of equivalent systems available and cost implications of each.
- 5. STANDARDS
 - 5.1. Standards that apply to University design and construction include, but are not limited to:
 - 5.1.1. National Fire Protection Association (NFPA) standards including current version of 70E
 - 5.1.2. American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE)

- 5.1.3. American Concrete Institute (ACI)
- 5.1.4. American National Standards Institute (ANSI)
- 5.1.5. American Refrigeration Institute (ARI)
- 5.1.6. American Society for Testing and Materials (ASTM)
- 5.1.7. Underwriter’s Laboratories, Inc. (UL), Federal Specifications
- 5.1.8. National Electrical Manufacturers Association (NEMA)
- 5.1.9. William Steiger’s Act 1970 - The Occupational Safety and Health (OSHA) Law
- 5.1.10. FM Global Company
- 5.1.11. American Association of State Highway and Transportation Officials (AASHTO) “Green Book” — A Policy on Geometric Design of Highways and Streets, current edition
- 5.1.12. Manual on Uniform Traffic Control Devices (MUTCD), current edition
- 5.1.13. National Institute of Building Science
- 5.1.14. National Electrical Safety Code, (NESC)
- 5.1.15. Building Industry Consulting Service International’s (BICSI)
- 5.1.16. Telecommunications Design Methods Manual (TDMM)
- 5.1.17. Electronic Industries Association/Telecommunications Industry Association (EIA/TIA), Building Wiring Standards
- 5.2. Standards that apply to University design and construction, as applicable:
 - 5.2.1. LEED

III. FEASIBILITY STUDY PHASE

1. GENERAL

- 1.1. The Design Professional shall be directed by the Owner as to the specific scope of work related to a Feasibility Study.
- 1.2. Unless otherwise directed, meeting minutes shall be issued to the Owner’s Representative for review within five (5) working days of a meeting. Following review by the Owner, the Design Professional shall distribute the meeting minutes to all participants.

IV. SCHEMATIC DESIGN PHASE

1. GENERAL

- 1.1. The Design Professional shall prepare Schematic Design options illustrating the scale and relationship of project components for approval by the Owner.

- 1.2. The number of Schematic Design options prepared will vary with the complexity of the project. The Design Professional shall continue generating options until the requirements of the project are met and a Schematic Design is approved by the Owner.
- 1.3. Unless otherwise directed, meeting minutes shall be issued to the Owner's Representative for review within five (5) working days of a meeting. Following review by the Owner, the Design Professional shall distribute the meeting minutes to all participants.
- 1.4. The Design Professional shall not proceed into the Design Development Phase until the requirements of the project are met and the Schematic Design Phase is approved by the Owner.
2. DESIGN SUMMARY (BASIS OF DESIGN)
 - 2.1. The Design Professional shall provide background information on the history of the project;
 - 2.1.1. Program(s) benefiting from the project
 - 2.1.2. Problems it will solve, e.g. space shortages, obsolete facilities, future growth.
 - 2.1.3. Include plans for future modifications (flexibility) and expansion (expandability).
 - 2.1.4. Describe other parameters affecting definition of the problem, such as master planning issues, existing structural limitations, and site conditions.
 - 2.1.5. Typical subheadings might include Project Background, Space Program, Planning Issues and Design Objectives.
 - 2.1.6. For proposed projects which are part of a Master Plan or part of a multi-phase development, include a summary of the planning associated with the total project.
 - 2.2. The Design Professional shall provide a project description including a brief summary of building systems and materials proposed in the Schematic Design. It shall include the following:
 - 2.2.1. Applicable Design Standards edition and Building Code(s) edition(s). Include a list of proposed Design Standards Deviations and their approval status.
 - 2.2.2. A general description of proposed materials and building systems, i.e., structural system, wall system, roof design, waterproofing, vertical conveying system, exterior and interior finishes, etc.
 - 2.2.3. Building controls, plumbing, air conditioning, heating and ventilating systems, ducts, filtration, and piping. Include appropriate code references to be followed in design.
 - 2.2.4. Electrical services, including voltage, number of feeders, and whether feeders are overhead or underground. Provide a specific description of items to be served by emergency power and describe consideration for special areas.
 - 2.2.5. Fire detection and protection systems required for intended occupancy of the building.
 - 2.2.6. Site work issues including exterior utility connections.
 - 2.2.7. The scope of Finishes, Furnishings and Equipment.
 - 2.2.8. The scope of Communication Systems and Audio/Visual equipment.

2.2.9. The scope of Access and Security.

2.2.10. The scope of Path of Travel Accessibility recommendations.

2.3. The Design Professional shall provide general programmatic information identifying programs and activities directly benefiting the University. Include a table of assignable square footage that clearly illustrates the proposed assignments of space.

3. SCHEMATIC DESIGN REPORT

3.1. The Design Professional shall produce and may be required to present a Schematic Design Report to the Board of Regents.

3.1.1. The report is intended to be distributed to Board of Regent members, University administrators, and other officials. The report may also be used in conjunction with development activities by the University.

3.1.2. It is imperative this document be accurate and of professional quality.

3.1.3. The Schematic Design Report shall be submitted in electronic (word format) and printed copies in quantities, per Owner direction.

3.1.4. The following outline, along with any supplementary directions given by the Owner, shall be used in developing the report:

3.1.4.1. Schematic Design drawings shall include a site plan, floor plans, primary elevations, and other drawings necessary to adequately convey important features of the proposed building.

4. ENERGY ANALYSIS

4.1. The Design Professional shall provide to the Owner an Energy Analysis, to include:

4.1.1. Energy Impact Statement, per Section III

4.1.2. Calculations

4.1.3. Models (including any computer printouts)

4.1.4. Written summary of the results (clearly indicating assumptions employed)

5. ARC FLASH ANALYSIS

5.1.1. Not applicable.

6. PROJECT COST ESTIMATE

6.1. The Design Professional shall provide a project cost estimate, formatted to the Owner's guidelines, to include:

6.1.1. Written quantitative estimate of construction developed from complete Schematic drawings

- 6.1.2. Construction cost estimate broken down into the major Architectural, Civil, Structural, Mechanical, and Electrical building components, by major divisions of work
 - 6.1.3. Construction cost estimate, excluding the construction related services and procedures which are to be performed directly by the Owner
 - 6.1.4. Design Professional's design contingency, if applicable.
- 6.2. The Design Professional shall provide a life cycle cost analysis
- 7. PROJECT SCHEDULE
 - 7.1. The Design Professional shall provide an estimate for the project period (schedule) that shall include the following milestones:
 - 7.1.1. Design Professional Selection (date)
 - 7.1.2. Schematic Design Approval (date)
 - 7.1.3. Contract Award (if known) (date)
 - 7.1.4. Construction Complete (if known) (date)
 - 7.1.5. Lead time estimates for special items.
- 8. PROJECT MANUAL
 - 8.1. The Design Professional shall provide an outline of technical specifications.
- 9. DRAWINGS
 - 9.1. Site Drawings
 - 9.2. Architectural Drawings
 - 9.2.1. Floor Plans
 - 9.2.1.1. Floor plans shall have rooms identified by the Program Room Numbers and Program Room Name.
 - 9.2.1.2. Net and gross area of each floor and total gross area of the building shall be noted on the floor plan drawings.
 - 9.2.2. Path of travel accessibility scoping recommendations
 - 9.2.3. Primary elevations
 - 9.2.4. Minimum of one (1) primary building section
 - 9.2.5. Roof Plans
 - 9.2.6. Other drawings necessary to adequately convey important features of the proposed building.

V. DESIGN DEVELOPMENT PHASE

1. GENERAL

- 1.1. There should be no duplication between portions of the Construction Documents; instead, they should be complementary.
- 1.2. Structural, mechanical, electrical, communication systems, audiovisual equipment, and access and security shall be developed to a degree that illustrates the building systems, materials, final appearance and nature of the structure of the building.
- 1.3. The Design Professional shall design the entire project, (architectural, civil, mechanical, electrical, and structural) unless otherwise agreed to by the Owner. Providing performance specifications is not considered equal to design.
- 1.4. The Design Professional shall verify with the Owner the level of involvement of Facilities Management - Building & Landscape Services (BLS) will take in site design and site restoration work. It must be determined if BLS will accept the entire site design and/or site work. Facilities Management – BLS shall provide design review and assist in inspecting landscape work regardless of their involvement with site design or site work.
- 1.5. The Design Professional shall perform a project code analysis.
 - 1.5.1. Design Professional shall reference applicable codes and editions and note the occupancy, construction type, egress conditions, and other information necessary.
 - 1.5.2. The code analysis shall note any potential nonconforming construction.
 - 1.5.3. Failure of design work to meet building codes and standards shall result in redesign at no cost to the Owner and reimbursement by the Design Professional to the Owner for non-value added modifications.
- 1.6. The Design Professional shall review all project permit requirements with the Owner.
- 1.7. Unless otherwise directed, meeting minutes shall be issued to the Owner's Representative for review within five (5) working days of a meeting. Following review by the Owner, the Design Professional shall distribute the meeting minutes to all participants.
- 1.8. The Design Professional shall not proceed into the Construction Document Phase until the requirements of the project are met and the Design Development Phase is approved by the Owner.
- 1.9. Finish and Furniture Documentation
 - 1.9.1. Finishes binders, furniture binders, and color boards may be required based, on project scope.
 - 1.9.2. Refer to Article 1.8. Section VI. CONSTRUCTION DOCUMENT PHASE (below) for details.
 - 1.9.3. Review status of the Finish and Furniture Documentation with the Owner during the Design Development phase.

2. DESIGN SUMMARY (BASIS OF DESIGN)

- 2.1. The Design Professional shall provide to the Owner design summary documentation, in an indexed report format, with all assumptions and references stated. Summary shall include:
 - 2.1.1. Architectural design calculations:
 - 2.1.1.1. Occupancy classifications,
 - 2.1.1.2. Type of construction,
 - 2.1.1.3. Fire resistive ratings,
 - 2.1.1.4. Exiting calculations,
 - 2.1.1.5. Allowable building height and area,
 - 2.1.1.6. Toilet fixture calculations
 - 2.1.1.7. Any unusual provisions or exceptions applicable to the project
 - 2.1.2. Path of travel accessibility scoping recommendation, including specific elements and associated costs.
 - 2.1.3. Calculations used to determine the width and spacing of the roof control and expansion joints.
 - 2.1.4. Finish and furniture documentation (as required by the project)
 - 2.1.5. Space-by-space comparison of preliminary assignable area with program assignable areas.
 - 2.1.5.1. Tabulate by floor and include totals for the building.
 - 2.1.6. Structural design calculations shall include:
 - 2.1.6.1. Live load,
 - 2.1.6.2. Roof load,
 - 2.1.6.3. Snow load,
 - 2.1.6.4. Wind load,
 - 2.1.6.5. Lateral soils load,
 - 2.1.6.6. Seismic load calculations,
 - 2.1.6.7. Any unusual provisions, special loads or exceptions applicable to the project
 - 2.1.7. Mechanical design calculations shall include:
 - 2.1.7.1. Building loadings,
 - 2.1.7.2. Equipment sizing,
 - 2.1.7.3. Steam pipe stress analysis,

- 2.1.7.4. Annual energy usage
- 2.1.7.5. Any unusual provisions or exceptions applicable to the project
- 2.1.8. Electrical information:
 - 2.1.8.1. Electrical system equipment list:
 - 2.1.8.1.1. Owner will furnish equipment list template in *.xls format.
 - 2.1.8.1.2. Design Professional shall develop Owner AIM asset tag for existing equipment using following format when working in General Education Funded buildings:
 - 2.1.8.1.2.1. AAAA – Building number.
 - 2.1.8.1.2.2. BBBB – Room number.
 - 2.1.8.1.2.3. C – System identifier.
 - 2.1.8.1.2.4. DDDD – Equipment type.
 - 2.1.8.1.2.5. EEEE – Equipment tag, typically existing device tag.
 - 2.1.8.1.3. Design Professional shall complete equipment list including asset tag, service description, building name, floor, room name, equipment type, voltage, manufacturer, model, main breaker amperage, fuse type, fuse amperage and source location.
 - 2.1.8.2. Electrical design calculations (including fault current calculations, transformer loading, circuit sizing, building energy usage and any unusual provisions or exceptions applicable to the project).
- 2.1.9. Civil design calculations shall include:
 - 2.1.9.1. Storm drainage,
 - 2.1.9.2. Sanitary sewer,
 - 2.1.9.3. Domestic water service,
 - 2.1.9.4. Transportation
 - 2.1.9.5. Any unusual provisions or exceptions applicable to the project demonstrating systems have capacity to support the project.
- 2.1.10. List major equipment and material information in space description sheets (e.g. catalog material, charts, tables, performance curves, etc.), including:
 - 2.1.10.1. Locations of moveable furniture and equipment items.
 - 2.1.10.2. Differentiation of built-in furniture and equipment.

2.1.11. A measurement and verification (M&V) plan, using the International Performance Measurement and Verification Protocol (IPMVP) Option D – Calibrated Simulation, is required for all new buildings and building addition projects. M&V principles are outlined below:

2.1.11.1. Utility revenue metering: steam, chilled water and electricity at the building level is available for data and calculations, and shall not be duplicated.

2.1.11.2. There shall be no steam sub-metering for new buildings. Main steam feeds to building additions shall be sub-metered. Heating loads on the hot water side shall be sub-metered.

2.1.11.3. Layout of lighting and receptacle electric panels shall be done to minimize the amount of metering required.

2.1.11.4. Lighting and plug loads shall be metered separately only when justified.

2.1.11.5. Small loads (e.g., fan coils under one (1) kw load, a booster pump (fire), a piece of equipment with low run times, or condensate pumps) shall be evaluated during the design development phase to determine if a separate meter is justified.

2.1.11.6. Refer to MEASUREMENT AND VERIFICATION SCHEDULE AND DIAGRAM in Appendices.

2.1.11.6.1. The Design Professional shall lead a pre-installation meeting during Construction to review the sub-meter BACnet Communication Schedule with the electrical contractor, controls contractor, and General Contractor in attendance.

2.1.12. Clear indication of the types of utilities and utility systems to be measured and the commissioning requirements.

2.1.13. Verification of compliance with University standards, guidelines, and codes.

3. ENERGY ANALYSIS

3.1. The Design Professional shall provide to the Owner an Energy Analysis, to include:

3.1.1. Energy Impact Statement, per Section III

3.1.2. Calculations

3.1.3. Models, including computer printouts

3.1.4. Written summary of the results clearly indicating assumptions employed

4. ARC FLASH ANALYSIS

4.1. The Design Professional shall perform arc flash assessments in accordance with OSHA 29 Part 1910, IEEE 1584, and NFPA 70E, Adopted Edition. The arc flash assessment model shall be created using SKM Power Tools for Windows (PTW) software.

4.2. Analysis shall begin at the primary side of the utility transformer(s) and continue through the secondary service protectors to including normal utility power and emergency power electrical distribution.

- 4.2.1. The analysis of the electrical distribution shall consist of switchboards, distribution panels, branch panels, transformers, generators, motor control centers, facility motors with a horsepower of 5 HP or larger, and associated feeders.
- 4.2.2. The analysis will not include receptacles, outlets, switch devices, lighting contactors, control panels, and single-phase equipment.
- 4.3. Owner shall furnish equivalent short-circuit values of the primary side of the building utility transformer(s) including primary protection device ratings, transformer ratings, and impedances.
- 4.4. Perform Electrical System Selective Coordination (study and model) of the following:
 - 4.4.1. Selective coordination between separate components of the electrical distribution system including switchboards, distribution panels, branch panels, generator, transformers, and motor control centers (including emergency distribution equipment).
 - 4.4.2. All electronic trip-type circuit breakers in the existing electrical distribution system with a combination of field-adjustable long-time, short-time, instantaneous, and ground fault trip settings.
 - 4.4.3. Development of Time Current Curves (TCCs) of overcurrent protection devices as follows:
 - 4.4.3.1. Evaluate the main Overcurrent Protection Device (OCP) and the largest 3-phase branch OCP in each switchboard, distribution panel, branch panel, and motor control center.
 - 4.4.3.2. Evaluate ground fault trip settings serving 3-pole (neutral not switched) automatic transfer switches of the emergency power distribution system.
 - 4.4.3.3. Evaluate generator OCP with emergency power distribution equipment.
 - 4.4.3.4. When connecting to existing electrical systems, Design Professional shall propose revisions such as changing breakers settings or fuse types, to improve system coordination from primary protection through new electrical equipment.
- 4.5. Arc Flash Assessment shall include:
 - 4.5.1. The arc flash assessment model shall evaluate available fault currents and ampere interruption capacity for new and/or modified equipment, including existing equipment downstream of new and modified equipment.
 - 4.5.2. System short-circuit calculations and equipment evaluations to verify the existing and proposed equipment current interruption and with-stand ratings are not exceeded.
 - 4.5.3. Calculate arc flash incident energy levels for equipment.
 - 4.5.4. When NFPA 70E, Current Edition, PPE Arc Flash Category 3 or higher is discovered the DP shall review options to reduce the Arc Flash level with the Owner.
 - 4.5.5. Options for propose revisions.
 - 4.5.6. Cost estimate(s) for implementing proposed revisions.
 - 4.5.7. Identify new resulting arc flash categories resulting from proposed revisions.

- 4.6. Arc Flash Report shall document findings of field investigation, analysis, and recommendations based on the electrical system selective coordination and arc flash assessment.

- 4.6.1. The report shall include the following:

- 4.6.1.1. The edition of the NFPA 70E, IEEE 1584 and the version of SKM Systems Analysis, Inc. Power Tools for Windows (PTW) software used for this analysis.
- 4.6.1.2. An overview of the electrical system; scenarios analyzed; and other assumptions used for this analysis.
- 4.6.1.3. Relevant TCCs.
- 4.6.1.4. Equipment schedule showing all equipment having an incident energy level Category 3 (8 cal/cm^2) or greater.
- 4.6.1.5. SKM PowerTool output showing all equipment, setting, cable types, and cable lengths. Bus colors shall identify incident energy level arc flash hazard categories as follows:
 - 4.6.1.5.1. Category 1 ($\leq 4 \text{ cal/cm}^2$): Blue.
 - 4.6.1.5.2. Category 2 ($\leq 8 \text{ cal/cm}^2$): Green.
 - 4.6.1.5.3. Category 3 ($\leq 25 \text{ cal/cm}^2$): Yellow or Gold.
 - 4.6.1.5.4. Category 4 ($\leq 40 \text{ cal/cm}^2$): Orange.
 - 4.6.1.5.5. Dangerous ($> 40 \text{ cal/cm}^2$): Red.

5. PROJECT COST ESTIMATE

- 5.1. The Design Professional shall provide a project cost estimate, to include:

- 5.1.1. Written quantitative estimate of construction developed from complete Design Development drawings and specifications.
- 5.1.2. Construction cost estimate shall be broken down into the major Architectural, Civil, Structural, Mechanical, and Electrical building components by major divisions of work
- 5.1.3. Construction cost estimate shall exclude the construction related services and procedures which are to be performed directly by the Owner
- 5.1.4. Construction cost estimate shall show the Constructor overhead and profit
- 5.1.5. Design Professional's Design contingency, if applicable.

6. PROJECT SCHEDULE

- 6.1. The Design Professional shall provide an estimate for the construction period (schedule) that shall include:
 - 6.1.1. Updates regarding lead time estimates for special items.

- 6.2. Provide a construction-phasing schedule in bar chart and/or outline (narrative) form and/or a phasing floor and/or site plan, if applicable.

7. PROJECT MANUAL

- 7.1. The Design Professional shall assist the Owner in preparing the following documents:

- 7.1.1. The Design Professional shall use the Owner's Division 00 documents.

- 7.1.1.1. Cover Page

- 7.1.1.2. 00 01 07 Seals & Signatures

- 7.1.1.3. 00 01 10 Table of Contents

- 7.1.1.4. 00 11 13 Advertisement for Bids

- 7.1.1.5. 00 21 13 Instructions to Bidders

- 7.1.1.6. 00 41 13 Form of Bid

- 7.1.1.7. 00 43 13 Bid Bond

- 7.1.1.8. 00 43 25 Substitution Request Form

- 7.1.1.9. 00 43 36 Subcontractor List

- 7.1.1.10. 00 45 14 Telecommunication Qualifications Requirements, as required

- 7.1.1.11. 00 45 36 EEO Data Reporting Form

- 7.1.1.12. 00 45 37 Certificate of Reporting

- 7.1.1.13. 00 45 40 Targeted Small Business Participation Form

- 7.1.1.14. 00 72 13 Board of Regents State of Iowa General Conditions

- 7.1.1.15. 00 73 13 Institution Requirements

- 7.1.1.16. 00 74 13 Project Requirements

- 7.1.2. The Design Professional shall use the following Owner's Division 01 documents:

- 7.1.2.1. 01 33 23 Submittals

- 7.1.2.2. 01 77 19 Contract Closeout

- 7.1.2.3. 01 78 23 Operation and Maintenance Manual

- 7.1.2.4. 01 78 39 Project Record Documents

- 7.1.2.5. 01 91 13 Commissioning, as required

- 7.2. The Design Professional shall use the Owner's technical specification template for Fire Alarm and Detection Systems, as required.
- 7.3. For consistency in format, the following rules shall be observed:
- 7.3.1. The term "Design Professional", when it refers to the Architect or Engineer who prepares the Documents, shall always be capitalized, and always in the singular.
 - 7.3.2. The term "Owner" shall always be capitalized, and no other term shall be used in reference to the University as the Owner.
 - 7.3.3. Reference to the "Drawings" shall be that, and not to less inclusive term "plans". "Drawings" shall be capitalized when the reference is to those included in the Construction Documents.
 - 7.3.4. "Specifications" shall be capitalized when reference is made to those trade sections generally so designated, but the term "Specifications" shall not be used when it is intended to include other portions of the Construction Documents.
 - 7.3.5. "General Conditions," "Institution Requirements" and "Project Requirements" are conditions of the Contract and are not part of the Technical Specifications. See website for the latest versions; <http://www.facilities.uiowa.edu/pdc/fmspecdocs.html>.
 - 7.3.6. The term "Constructor" shall be capitalized when referring to the prime contractor, but not when referring to a subcontractor.
 - 7.3.7. "Contract" shall be capitalized when referencing the agreement between a Constructor and the Owner.
 - 7.3.8. The term "Construction Documents" shall be used when reference is made to all documents so identified in the FORM OF AGREEMENT BETWEEN CONSTRUCTOR AND OWNER.
- 7.4. The Design Professional shall carefully check that the Specifications include all items pertaining to the project and exclude items not incorporated in the project.
- 7.5. The Specifications shall include a complete list of extended guarantee items and list of items for which operations and maintenance data are required.
- 7.6. References to industry standards shall be checked to verify correct identification of numbers and date of issue.
- 7.7. The terms "to be," "must be," "will be" and "will" are not acceptable when referring to the Constructor. The mandatory "shall" or "shall be" are the only forms with full legal force.
- 7.8. Competitive bidding is required by State of Iowa Law.
- 7.8.1. Throughout the Specifications, the Design Professional shall use a performance-type description as far as possible, meeting certain established and recognized industry standards (e.g., ASTM).
 - 7.8.2. Where this is not feasible because such standards have not been established, specify three (3) equally acceptable manufacturers or suppliers.
 - 7.8.2.1. Name of one (1) type followed by "or equal" or "or approved equivalent" is not considered to be an adequate specification.

7.8.2.2. As a possible alternative to this procedure, the statement “equivalent to item ‘X’ as manufactured by ‘ABC Company’ “ will be acceptable as a means of establishing the quality desired.

7.9. Specific vendor contact information shall not be included, unless by reference through an Allowance.

8. DRAWINGS

8.1. Title Sheet(s) in each set of drawings shall contain the following and shall be provided for each bound set:

- 8.1.1. Project title and project number
- 8.1.2. Owner’s name: (The University of Iowa)
- 8.1.3. Design Professional Firm name
- 8.1.4. Drawing index
- 8.1.5. Site location map (including street address)
- 8.1.6. Advertisement/issue date

8.2. Site Drawings shall contain the following:

- 8.2.1. Overall dimensions of the proposed building(s) or work area, benchmark and baseline, property lines and easements.
- 8.2.2. Location and extent of existing structures on the site within 300 feet (measured from the exterior walls of the proposed building) or as directed by the Owner. Identify structures and streets by proper names.
- 8.2.3. Existing and proposed topographic contours.
- 8.2.4. Exterior elements; e.g., outdoor facilities, streets, service drives, parking areas, walks (including ADA), covered walks, landscape development, stairs, pools, retaining walls, terraces, etc., and any elements to be demolished.
- 8.2.5. Section(s) through site, explaining changes in level within the proposed building as related to the adjacent site.
- 8.2.6. Existing and proposed underground utilities and structures. Show verified capacity at points of connection to existing utilities.
- 8.2.7. Locations of any anticipated snowmelt systems.
- 8.2.8. Proposed landscape materials and location.
- 8.2.9. Existing plant material to remain; including plant material, type, variety, size and condition. Identify any significant plant material to be protected and/or remain on the site.
- 8.2.10. Existing and final site grading and identify any surface water drainage issues that shall be corrected as part of the project.

8.2.11. Method of general drainage of the site as affected by the proposed building and concepts for mitigating site runoff.

8.3. Architectural Drawings shall contain the following:

8.3.1. Floor Plans

8.3.1.1. Extent of demolition work, site access, and dust barriers.

8.3.1.2. Locations, sizes (dimensions), and space numbers of programmed spaces and other required gross areas, including:

8.3.1.2.1. Corridors (width)

8.3.1.2.2. Stairs

8.3.1.2.3. Restrooms

8.3.1.2.4. Locker Rooms

8.3.1.2.5. Custodial Spaces

8.3.1.2.6. ITS Spaces

8.3.1.2.7. Mechanical Spaces

8.3.1.2.8. Storage Rooms

8.3.1.2.9. Classrooms

8.3.1.2.10. Lecture Halls

8.3.1.2.11. Kitchens and related service areas

8.3.1.3. All floor plans and room finish schedules shall indicate room numbers.

8.3.1.4. Interior finish schedule indicating floor, wall, and ceiling finishes together with special items of finish.

8.3.1.5. Location of doors and windows. Indicate door swings.

8.3.1.6. Overall dimensions of each area of the building(s).

8.3.1.7. Location of plumbing fixtures such as lavatories, floor drains, water closets, urinals, service sinks, drinking fountains, fire hose cabinets, fire extinguishers, sprinkler systems, etc.

8.3.1.8. Principal built-in features, such as:

8.3.1.8.1. Fixed auditorium seats

8.3.1.8.2. Kitchen equipment

8.3.1.8.3. Display cases

8.3.1.8.4. Casework

8.3.1.8.5. Counters

8.3.1.8.6. Shelves

8.3.1.8.7. Lockers

8.3.2. Construction Project Signage

8.3.2.1. All projects shall include construction project signage

8.3.2.2. Based on project size and complexity, one of the following three sizes shall be used.

8.3.2.2.1. 12 inches x 20 inches

8.3.2.2.2. 18 inches x 30 inches

8.3.2.2.3. 36 inches x 60 inches

8.3.2.3. Based on project size and complexity, multiple signs and sizes may be required.

8.3.2.4. Signage shall include the Owner's standard formatting, including project title and season of completion.

8.3.2.5. Only projects receiving donor funding shall include the "Philanthropy at Work" logo.

8.3.2.6. Signage drawings shall include detail and description and location for installation (construction fencing, dust barriers, project entrance, etc.).

8.3.2.7. Signage shall be maintained in an "as-installed" state for the duration of the project and removed only by the Constructor upon project completion.

8.3.2.8. Refer to *CONSTRUCTION PROJECT SIGNAGE* in Appendices.

8.3.3. Interior Signage

8.3.3.1. Locations shown on floor plan keyed by code number.

8.3.4. Roof Plans

8.3.4.1. A roof plan and detail of existing conditions (reroof) or other components and penetrations (new).

8.3.4.2. Photographs of overall roof condition and locations of inspection openings (reroof project only).

8.3.4.3. Outline of proposed reroofing method including a narrative report discussing major design features and options (reroof).

8.3.4.4. Identification of existing components and methods of attachment.

8.3.4.5. Simple sketches showing method of detailing new system.

8.3.5. Elevations and Sections

8.3.5.1. Exterior elevations for the building shall show the following:

8.3.5.1.1. Windows

8.3.5.1.2. Doors

8.3.5.1.3. Louvers

8.3.5.1.4. Solar Screening Systems

8.3.5.1.5. Stairs

8.3.5.1.6. Platforms

8.3.5.1.7. Retaining Walls

8.3.5.1.8. Grades, Paved Areas, etc.

8.3.5.1.9. Typical configuration and integration of the air and weather barrier into adjacent building envelope materials

8.3.5.2. Indicate floor heights and window sill heights.

8.3.5.3. Include longitudinal and transverse sections for each major area, indicating:

8.3.5.3.1. Floor elevations

8.3.5.3.2. Finish exterior grades

8.3.5.3.3. ceiling heights

8.3.5.3.4. Pipe tunnels

8.3.5.3.5. Unexcavated areas

8.3.5.3.6. Basement and areaways

8.3.5.3.7. Rooflines, Parapets, etc.

8.3.5.4. Various floor and grade elevations, including those for interior and exterior stairways, walls, terraces, walk, etc.

8.4. Structural Drawings shall contain the following:

8.4.1. Design loadings (dead, live, wind, snow, seismic),

8.4.2. Material specifications

- 8.4.3. Design stresses (steel, concrete, masonry, soil bearing, etc.) assumed during the design, plus assembly stresses where applicable.
- 8.4.4. A grid reference system using alphabetic and numeric symbols for structures employing a beam-column framework.
- 8.4.5. The original reference system shall be extended, where practical, when additions are made to existing structures.
- 8.5. Mechanical Drawings shall contain the following :
 - 8.5.1. Metering schematics for each utility shall be included in the Construction Documents.
 - 8.5.2. Plumbing
 - 8.5.2.1. Demolition drawings.
 - 8.5.2.2. Locations of main wastes and vents, as well as service mains. Include water, air, gas, vacuum, etc.
 - 8.5.2.3. Pieces of equipment, showing location and required piping connections. Include pumps, tanks, backflow preventers, generators, etc.
 - 8.5.2.4. Equipment schedules for plumbing fixtures.
 - 8.5.2.5. Isometrics for water, sanitary, and gas piping.
 - 8.5.3. Heating, Ventilating, Air Conditioning and Piping
 - 8.5.3.1. Demolition drawings and associated capping of piping and duct runs.
 - 8.5.3.2. Service mains, including steam, condensate, compressed air, hot water, chilled water, condenser water, gas, etc.
 - 8.5.3.3. Air moving equipment and double line duct runs to all outlets including supply and exhaust fan systems, fume hoods, etc.
 - 8.5.3.4. Pieces of equipment, showing locations and required piping connections including pumps, tanks, converters, etc.
 - 8.5.3.5. Equipment schedules indicating sizes, capacities and operating characteristics.
 - 8.5.3.6. Provide air and water flow diagrams for supply and exhaust air and water distribution systems.
 - 8.5.3.6.1. Diagrams shall indicate flow rates in mains and branches to assist in balancing.
 - 8.5.3.7. Control schematics and sequence of operations.
 - 8.5.4. Equipment Rooms
 - 8.5.4.1. Layout of equipment to assure adequate space allowance.

- 8.5.4.2. Elevations of built-up fan units to assure proper air flow and access to component parts of the units.
 - 8.5.4.3. Pump layout and piping runs.
 - 8.5.4.4. Room section cuts showing room accessibility for maintenance personnel.
- 8.5.5. Fire Protection and Detection
 - 8.5.5.1. Pipe runs, sprinkler locations, standpipes, pumper connections, and test connections.
 - 8.5.5.2. Coverage rate of sprinklers.
 - 8.5.5.3. Special equipment.
 - 8.5.5.4. Control schematic.
 - 8.5.5.5. Fire alarm panel locations.
- 8.6. Electrical Drawings shall contain the following :
 - 8.6.1. Metering schematics for each utility
 - 8.6.2. Demolition drawings
 - 8.6.3. Location of electrical system components requiring arc flash labels.
 - 8.6.3.1. Include protection devices upstream of primary transformation device(s) through secondary service protection devices to building main(s) substations, switch gear or switchboard to distribution switchboards, motor control center, and panel boards for power and lighting.
 - 8.6.3.2. Update Owner's record documents as applicable.
 - 8.6.4. Arc Flash Analysis Documents including
 - 8.6.4.1. Electrical Equipment Plans (*.pdf).
 - 8.6.4.2. Arc Flash Report (*.pdf)
 - 8.6.4.3. SKM PowerTool TCCs (*.pdf)
 - 8.6.4.4. SKM PowerTool Model Output One-Line Diagram (*.pdf)
 - 8.6.4.5. Electronic Safety and Security Drawings:
 - 8.6.5. Power and control layouts shall be on a single set of drawings and the lighting layouts shall be on a different set of drawings, using standard symbol conventions.
 - 8.6.5.1. All conduit sizes and the size and number of conductors shall be shown.
 - 8.6.5.2. Electrical and data on one (1) sheet and electrical, data, and furniture/casework shall be on a separate sheet.

8.6.6. Electrical One-Line Diagrams

8.6.6.1. Diagrams shall schematically show the interconnections of equipment including; emergency generators, switchboards, motor control centers, transformers, disconnect switches, local motor starters, variable-frequency drives, and distribution panels.

8.6.6.2. Diagrams shall show bus ratings, breaker settings, and motor horse power.

8.6.6.3. Diagrams shall begin at the connection to utility service, including protection devices upstream of primary transformation device(s) through secondary service protection devices to building main(s) substations, switch gear or switchboard to distribution switchboards, motor control center, and panel boards for power and lighting.

8.6.7. Provide utilization schedule for each load center unit substation, motor control center, distribution and switchboards, telephone equipment rooms, and closets.

8.6.8. Provide a schedule with details of types and locations of lighting fixtures in typical offices, laboratories, corridors, examination rooms, etc.

8.6.9. Provide a photometric drawing with types and locations of all exterior lighting fixtures, for Owner review and approval.

8.6.10. Fire Alarm and Detection

8.6.10.1. Fire alarm and detection system drawings shall not be incorporated into the electrical or communications drawings.

8.6.10.2. Location of all control modules and test switches shall be shown on drawings (fan shutdown modules, damper control modules, etc.)

8.6.10.3. Location of damper indicator lights

8.6.10.4. Identify the estimated quantity of dry contacts required for the fire alarm system.

8.6.10.5. Outline of sequence of operation for auxiliary controls from fire alarm system (smoke purge, damper control, HVAC control, etc.).

VI. CONSTRUCTION DOCUMENT PHASE

1. GENERAL

1.1. All items listed under Design Development Phase, General apply to the Construction Document Phase, General requirements and shall be updated and submitted to the Owner.

1.2. Construction Documents shall be complete and ready for seals and signatures.

1.3. All corrections to drawings and specifications identified during Design Development and subsequent intermediate reviews shall be completed and incorporated prior to issuing Construction Documents for bid.

1.4. No allowances shall be included in the Construction Documents, unless approved by the Owner.

1.5. Ensure all deviation requests have been approved prior to issue of final review of Construction Documents.

1.6. Warranties

1.6.1. Prior to bidding, Design Professional shall review with Owner all product, installation, and manufacturer warranty requirements.

1.6.1.1. The General Conditions cover all one-year warranties and guarantees.

1.6.1.2. Warranties and guarantees other than one-year shall be stated in the applicable specification section(s), including 01 77 19 Contract Closeout. Do not repeat one-year warranties and guarantees in the specifications.

1.6.2. The Design Professional shall review any recommended extended warranty and/or guarantee periods with the Owner.

1.7. Training:

1.7.1. Product and system training requirements shall be reviewed with the Owner prior to final review of Construction Documents.

1.8. Finish and Furniture Documentation

1.8.1. Finishes binders, furniture binders, and color boards may be required based, on project scope. The following documents are required during Design Development when required by the Professional Services Agreement.

1.8.1.1. Finishes Binder Documents:

1.8.1.1.1. Review format, quantity of binders, and schedule expectation with Owner.

1.8.1.1.2. The binder shall include the following items, unless indicated otherwise by the Owner:

1.8.1.1.2.1. Cover; including project name, project number, date issued and Design Professional's name.

1.8.1.1.2.2. Table of Contents

1.8.1.1.2.3. Finish schedule including 11 x 17 finish plan of each floor

1.8.1.1.3. Final Finish Samples shall be:

1.8.1.1.3.1. Labeled with keyed identification of product information (manufacturer and product name).

1.8.1.1.3.2. Labeled with location of use.

1.8.1.1.3.3. Loose samples shall be provided in plastic sleeves with label.

1.8.1.1.3.4. Electronic format of samples shall include an image from the manufacturer's website or a photo of the actual sample.

1.8.1.1.3.5. 3D project renderings with selected building finishes (as required).

1.8.2. Furniture Binder Documents:

1.8.2.1. Review format, quantity of binders, and schedule expectation with Owner.

1.8.2.2. The binder shall include the following items, unless indicated otherwise by the Owner:

1.8.2.2.1. Cover; including project name, project number, date issued and Design Professional's name.

1.8.2.2.2. Table of Contents

1.8.2.3. Furniture Specifications. The final specifications are required for furniture procurement by Owner. Each furniture specification sheet shall include the following items:

1.8.2.3.1. Project name and number

1.8.2.3.2. Issue date

1.8.2.3.3. Furniture manufacturer's representative contact information

1.8.2.3.4. Furniture product number and description

1.8.2.3.5. Furniture photos

1.8.2.3.6. Furniture finish photos

1.8.2.3.7. Furniture floor plan code

1.8.2.3.8. Room number with location name and quantities

1.8.2.4. Furniture floor plans keyed to specifications.

1.8.2.5. Final furniture finish samples shall:

1.8.2.5.1. Have label with keyed identification of product information (manufacturer and product name).

1.8.2.5.2. Be labeled with location of use.

1.8.2.5.3. Be placed in plastic sleeves with label, if loose.

1.8.2.5.4. Include an image from the manufacturer's website or a photo of the actual sample when sample is electronic.

1.8.2.6. 3D rendering and plan view of typical workstation layout, as required.

2. DESIGN SUMMARY (BASIS OF DESIGN)

2.1. All items listed under Design Development Phase, Design Summary (Basis of Design) apply to the Construction Document Phase, Design Summary (Basis of Design) requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.

3. ENERGY ANALYSIS

- 3.1. All items listed under Design Development Phase, Energy Analysis apply to the Construction Document Phase, Energy Analysis requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.

4. ARC FLASH ANALYSIS

- 4.1. All items listed under Design Development Phase, Arc Flash Analysis apply to the Construction Document Phase, Arc Flash Analysis requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.
- 4.2. Submit electrical riser diagram showing preliminary breaker settings, ratings, available fault current, hazard levels within Construction Documents.

5. PROJECT COST ESTIMATE

- 5.1. All items listed under Design Development Phase, Project Cost Estimate apply to the Construction Document Phase, Project Cost Estimate requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.
- 5.2. The construction cost estimate shall become the basis for the Owner's construction estimate to be used at bid opening. The Design Professional shall provide separate estimated costs for any bid alternates included in the bid documents.

6. PROJECT SCHEDULE

- 6.1. All items listed under Design Development Phase, Project Schedule apply to the Construction Document Phase, Project Schedule requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.
- 6.2. The Design Professional shall provide a final schedule for project construction and identify the critical path. The schedule shall include purchase and delivery activities and durations for all major equipment and building components.

7. PROJECT MANUAL

- 7.1. All items listed under Design Development Phase, Project Manual apply to the Construction Document Phase, Project Manual requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.
- 7.2. The Project Manual shall use CSI Masterformat™ 2004 Edition numbering conventions.
- 7.3. The date of issue for the Project Manual shall be the same date as on the Drawings.
- 7.4. The Project Manual shall be brief and consistent. Information contained in the General Conditions, Institution Requirements, or the Project Requirements shall not be repeated in any other section. Information contained in the specifications shall not be repeated except in equipment schedules.
- 7.5. The Design Professional shall list all required submittals, shop drawings, operation and maintenance manuals, warranties and certifications required.
- 7.6. Each technical specification section shall be marked "End of Section" at the end of the last page.

7.7. The geotechnical report, if applicable, shall be included for reference only.

8. DRAWINGS

8.1. All items listed under Design Development Phase, Drawings apply to the Construction Document Phase, Drawings requirements. Changes shall be denoted, tracked, highlighted, and submitted to the Owner.

8.2. General

8.2.1. Drawings shall be carefully checked by the Design Professional to achieve coordination between architectural, structural, mechanical, electrical and fixed equipment drawings.

8.2.2. Pertinent information shall be shown only on discipline drawings applicable to that division of work. If information must be located on drawings of a different discipline, drawings shall be cross-referenced.

8.2.3. Notes and dimensions on the drawings shall be large enough to be easily read. This is especially true if drawings are to be reproduced at half size for bidding documents.

8.2.4. Schedules for mechanical equipment, electrical equipment, doors and windows, and room finishes shall be included.

8.2.5. Manufacturer and product names shall be referenced in equipment schedules.

8.2.6. Symbols and abbreviations shall be defined and shown on legends.

8.2.7. Design details, sketches and drawings shall be shown on the drawings, not in the Project Manual.

8.2.8. Sections and details shall be numbered and cross referenced.

8.2.9. Provide building code information, such as occupancy and construction type. A life safety plan indicating fire rated walls and means of egress shall be prepared for each level of the building affected by the project.

8.3. Title Sheets:

8.3.1. The title sheet or sheets in each set of drawings shall contain the following:

8.3.2. Design Professional's Seal

8.3.3. Abbreviations and symbols used on the drawings in a key or legend

8.3.4. Design Standards edition and deviations

8.3.5. Building Code edition and variances

8.4. Site Drawings:

8.4.1. Project construction limits, construction fencing, and Constructor access shall be clearly shown on the site drawings.

8.4.2. Tree protection or special requirements shall be noted on drawings.

- 8.4.3. Sections and Elevations of utility profiles.
- 8.4.4. Landscape planting schedule
- 8.4.5. Site details
- 8.5. Architectural Drawings:
 - 8.5.1. Interior Signage Drawings:
 - 8.5.1.1. Shall be to-scale
 - 8.5.1.2. Sign schedule referencing location code number, sign type designation, and sign message.
 - 8.5.1.3. Sign art shall be created in vector format to be used as mechanical art for sign fabricator.
 - 8.5.1.4. Map art shall be created full color in vector format to be used as mechanical art for sign fabricator.
 - 8.5.2. Roofing Drawings:
 - 8.5.2.1. Roof drawings shall include all features and elements of the roof, including roof slope and drainage, penetrations and mechanical equipment. The following items shall be drawn to scale on the roof plans.
 - 8.5.2.1.1. Mechanical units, exhaust fans, vents
 - 8.5.2.1.2. Piping, conduit and related supports
 - 8.5.2.1.3. Roof walkways, screens, hatches and ladders
 - 8.5.2.1.4. Roof drains, overflow drains and scuppers
 - 8.5.2.1.5. Miscellaneous penetrations
 - 8.5.2.1.6. Expansion joints and area divided curbs
 - 8.5.2.1.7. Gutters and downspouts
 - 8.5.2.1.8. Valley, ridges, saddles and crickets.
 - 8.5.2.2. Details of roof system and components including:
 - 8.5.2.2.1. Roof perimeter condition
 - 8.5.2.2.2. Penetration condition, including vent flashing
 - 8.5.2.2.3. Roof-related sheet metal fabrication
 - 8.5.2.2.4. Equipment curbs, skylight curbs, and roof hatches
 - 8.5.2.2.5. Roof expansion joints and area dividers

8.5.2.2.6. Piping and equipment supports.

8.5.2.2.7. Typical roof drain and overflow drain, including sumps and flashings

8.5.2.2.8. Scuppers.

8.5.3. Roof flashing details shall indicate, as a minimum, the following components:

8.5.3.1. Roof deck and wall substrate and other adjacent materials.

8.5.3.2. Insulation including separate layers and vapor retarders.

8.5.3.3. Roof and flashing membrane

8.5.3.4. Cant strips

8.5.3.5. Flashing attachment

8.5.3.6. Counter flashing and reglets

8.5.3.7. Sealants

8.5.3.8. Wood nailers and blocking, including adequate attachment.

8.5.3.9. Roofing system interface(s) with rest of building envelope(s), including details indicating how penetrations are to be handled.

8.6. Structural Drawings:

8.6.1. Detail junctions between floors, roof, and exterior wall assuring continuity and load path.

8.6.2. Drawings shall clearly dimension and accurately describe non-standard details and construction requirements. Including but not limited to:

8.6.2.1. Construction and expansion joints

8.6.2.2. Special jacking and lifting procedures

8.6.2.3. Protective cover (concrete)

8.6.2.4. Anchor bolt material and projection

8.6.2.5. Special connection details

8.6.2.6. Shoring requirements, including soil nails

8.6.2.7. Construction sequence

8.6.2.8. Bolt torque

8.6.2.9. Concrete reinforcing details

8.6.2.10. Connection capacity

8.6.2.11. Water stops, etc.

8.6.3. Rebar splices

8.6.3.1. Type

8.6.3.2. Placement

8.6.3.3. Location

8.7. Mechanical Drawings:

8.7.1. Ductwork drawings shall be double lined, minimum 1/4-inch scale.

8.7.1.1. All ductwork and piping 3 inches and larger shall be shown double lined.

8.7.1.2. Clearly identify locations for valves and dampers on drawings, including sections and installation details.

8.7.2. Details, cross-sectional and elevation views.

8.7.3. Equipment schedules

8.7.4. Control schematic

8.7.5. Point listing

8.7.6. Sequence of operation information

8.8. Electrical Drawings:

8.8.1. Completed equipment, lighting and power panel schedules.

8.8.2. Details, cross-sectional and elevation views.

8.8.3. Identify circuits

8.8.4. Equipment schedules.

VII. BIDDING PHASE

1. GENERAL

1.1. Seven (7) days prior to bid opening, the Design Professional shall provide to the Owner an update on Bidder interest and efforts to ensure competitive bids.

1.2. The Design Professional shall evaluate bids received:

1.2.1. After the bids have been received, the Design Professional shall provide a letter of recommendation for awarding the construction to the lowest, responsible bidder based on its review and analysis of the following, as requested by the Owner:

- 1.2.1.1. An analysis of the bidder's qualifications to determine if the low bidder is responsible [qualified].
 - 1.2.1.2. An analysis of the low bidder's breakdown of cost against the scope of work to determine if the bid is responsive.
 - 1.2.1.3. An analysis of the bid spread and its comparison to the Design Professional's pre-bid construction estimate.
 - 1.2.1.4. An analysis of variations in the bids.
 - 1.2.2. LEED (if required)
 - 1.2.2.1. The Design Professional shall submit an initial LEED Design Submittal (if required) within fourteen (14) days of the bid opening.
 - 1.2.2.1.1. Upon receipt, results shall be submitted to the DPM and Design and Construction's LEED Resource.
 - 1.2.2.1.2. Develop strategies for compliance and responses with Design and Construction.
- 2. DESIGN SUMMARY (BASIS OF DESIGN)
 - 2.1. Not applicable
- 3. ENERGY ANALYSIS
 - 3.1. Not applicable
- 4. ARC FLASH ANALYSIS
 - 4.1. Not applicable.
- 5. PROJECT COST ESTIMATE
 - 5.1. The Design Professional shall provide the latest construction estimate for base scope and any alternates to the Owner prior to the project being advertised for bid.
 - 5.2. The Design Professional shall notify the Owner if the construction estimate changes during the bidding period.
- 6. PROJECT SCHEDULE
 - 6.1. Not applicable.
- 7. PROJECT MANUAL
 - 7.1. Addenda
 - 7.1.1. The Design Professional shall prepare all required addenda and submit to the Owner for distribution.

7.1.2. Addenda items shall be approved by the Owner prior to issuance.

7.1.3. Addenda shall be issued a minimum of seven (7) calendar days prior to the bid date.

7.1.3.1. If Addenda occurs six (6) or fewer days before the bid date:

7.1.3.1.1. The bid date shall be extended or the Design Professional shall verify each plan holder has a copy of the addenda no less 48 hours prior to the bid opening.

7.2. The Design Professional shall deliver a complete set of the Construction Documents (drawings, specifications, and addenda) to the Owner within five (5) days after the project's bid opening. The set shall have individual information blocks with certifications, seals, signatures, and dates.

8. DRAWINGS

8.1. Addenda

8.1.1. The Design Professional shall prepare all required addenda and submit to the Owner for distribution.

8.1.2. Addenda items shall be approved by the Owner prior to issuance.

8.1.3. Addenda shall be issued a minimum of seven (7) calendar days prior to the bid date.

8.1.3.1. If Addenda occurs six (6) or fewer days before the bid date:

8.1.3.1.1. The bid date shall be extended or the Design Professional shall verify each plan holder has a copy of the addenda no less 48 hours prior to the bid opening.

8.2. The Design Professional shall deliver a complete set of the Construction Documents (drawings, specifications, and addenda) to the Owner within five (5) days after the project's bid opening. The set shall have individual information blocks with certifications, seals, signatures, and dates.

VIII. CONSTRUCTION ADMINISTRATION PHASE

1. GENERAL

1.1. Meeting minutes shall be issued to the Owner's Representative for review within three (3) working days of a construction progress meeting. Following review by the Owner, the Design Professional shall distribute the meeting minutes to all participants.

1.2. Shop drawings and submittals

1.2.1. The Design Professional shall copy the Owner's Representative on all shop drawing and submittal responses.

1.2.2. The Design Professional shall consolidate all reviewers' comments per submittal into one (1) file and respond to the consolidated list of comments.

1.2.3. Shop drawings and submittal archives shall be provided at Final Acceptance of the project Work.

- 1.2.4. Shop drawings and submittal archives shall be provided on CD(s), DVD(s), or flash drive and accompanied by Letter of Transmittal on Design Professional's letterhead, to Facilities Management - Design & Construction, Attn: Document Center.
 - 1.2.4.1. For shop drawings and submittals managed via email, the archive shall include:
 - 1.2.4.1.1. Full final Submittal Log
 - 1.2.4.1.2. Folders labeled with each CSI division number.
 - 1.2.4.1.3. All submittals, including those actioned R, RAN, R&R, NAR, and F&E.
 - 1.2.4.1.4. Multi page .pdf of each submittal within the division folders labeled by CSI number, description and action code. (Example: 10 51 16 Custom wood lockers RAN.pdf)
 - 1.2.4.2. For shop drawings and submittals managed via Submittal Exchange, the archive flash drive, (created from Submittal Exchange,) shall include:
 - 1.2.4.2.1. Full final submittal log
 - 1.2.4.2.2. Activity log
 - 1.2.4.2.3. Html
 - 1.2.4.2.4. Folders labeled with each CSI division number.
 - 1.2.4.2.5. All submittals, including those actioned R, RAN, R&R, NAR and F&E.
 - 1.2.4.2.6. Each tab shall be an individual folder. Each subsection under each tab shall be a subfolder with the corresponding files uploaded to each subfolder.
- 1.3. The Design Professional shall send the Owner's Representative the punch list, organized by room, system, or area.
 - 1.3.1. Upon Contractor's completion of the punch list items, the Design Professional shall provide a letter to the Owner's Representative certifying the completion of the project and recommending Final Acceptance.
- 1.4. The Design Professional shall produce Record Documents within thirty (30) days following Final Acceptance of the project and shall send them to Facilities Management – Design & Construction, Attn: Document Center.
 - 1.4.1. Record Documents shall be provided using CD(s), DVD(s), or flash drive:
 - 1.4.1.1. Drawings and Project Manual modified to include:
 - 1.4.1.1.1. Addenda
 - 1.4.1.1.2. Post-Bid changes, including changes made via the Submittal Process
 - 1.4.1.1.3. Supplemental Documents

1.4.1.1.4. Constructor's field changes, As-Built Documents.

1.5. LEED:

1.5.1. The Design Professional shall submit an initial LEED Construction Submittal (if required) within sixty (60) days of the Substantial Completion.

1.5.1.1. Upon receipt, results shall be submitted to the Owner's Representative and the Owner's LEED Resource.

1.5.1.2. Develop strategies for compliance and responses with Design and Construction.

1.5.2. The Design Professional shall submit the following upon receipt of Final LEED Certification:

1.5.2.1. LEED checklist of credits attempted.

1.5.2.2. LEED checklist of credits awarded.

1.5.2.3. Narrative of successful strategies and lessons learned.

2. DESIGN SUMMARY (BASIS OF DESIGN)

2.1. Not applicable.

3. ENERGY ANALYSIS

3.1. Not applicable.

4. ARC FLASH ANALYSIS

4.1. All items listed under Construction Document Phase, Arc Flash Analysis apply to the Construction Administration Phase. Arc Flash Analysis requirements shall be updated and submitted to the Owner including:

4.1.1. Electrical Panel Schedules (*.doc)

4.1.2. Updated Arc Flash Report (*.pdf)

4.1.3. SKM PowerTool TCCs (*.pdf)

4.1.4. SKM PowerTool Model Output One-Line Diagram (*.pdf)

4.2. Prior to Substantial Completion, provide a report detailing the coordinated breaker sizing and setting requirements for the service protector, including all downstream circuits and protective devices in the building.

4.3. Provide and install labels in compliance with NFPA 70E labeling requirements and the Owner's template.

4.3.1. Refer to ARC FLASH LABELS in Appendices.

4.3.2. Equipment labels files shall indicate AIM asset tag of equipment, source of power including equipment, and circuit number as well as differentiate by color type of power and voltage.

- 4.3.3. Arc flash label shall indicate the latest information required by NFPA 70E and as coordinated with the University. Label information shall include date, device name, arc flash boundary, and incident energy level (*.xls format).

4.4. Provide Arc Flash Record Documents showing final as-installed equipment and conditions including:

- 4.4.1. Electrical riser diagram showing final breaker settings, ratings, available fault current, and hazard levels.
- 4.4.2. Panel schedules in electronic (.doc) format.
- 4.4.3. Electrical Equipment List (*.xls).
- 4.4.4. Electrical Equipment Plans (*.dwg, *.pdf).
- 4.4.5. Final Arc Flash Report (*.pdf)
- 4.4.6. SKM PowerTool System Model (native format)
- 4.4.7. SKM PowerTool DAPPER Input file (*.pdf)
- 4.4.8. SKM PowerTool TCCs (*.pdf)
- 4.4.9. SKM PowerTool Model Output One-Line Diagrams (*.pdf)
- 4.4.10. Arc Flash Labels File (*.xls)

5. PROJECT COST ESTIMATE

- 5.1. The Design Professional shall review all change order pricing and issue written responses within five (5) working days following receipt. Change orders exceeding \$10,000 shall require a detailed and itemized estimate to include labor, equipment, material, and overhead and profit margins, if applicable.

6. PROJECT SCHEDULE

- 6.1. Not applicable.

7. PROJECT MANUAL

- 7.1. Record Documents (Project Manual and Drawings) shall be provided using CD(s), DVD(s), or flash drive to Facilities Management - Design & Construction, Attn: Document Center.
- 7.2. The Design Professional shall update the project manual for a record of final conditions. The Project Manual updates shall include:
 - 7.2.1. Addenda
 - 7.2.2. Post-Bid changes, including changes approved by Change Order
 - 7.2.3. Supplemental Documents
 - 7.2.4. Constructor's field changes, As-Built Documents.

7.3. Operations and Maintenance Manuals shall be reviewed by the Design Professional and all comments shall be sent to the Contractor prior to Final Acceptance of the project Work.

7.3.1. If approved, return the O&M manuals to the Contractor, accompanied by Letter of Transmittal on Design Professional's letterhead.

7.3.2. If not approved, return the O&M manuals to the Contractor with review comments, accompanied by Letter of Transmittal on Design Professional's letterhead.

8. DRAWINGS

8.1. Record Documents (Project Manual and Drawings) shall be provided using CD(s) or DVD(s), or flash drive to Facilities Management -Design & Construction, Attn: Document Center.

8.2. The Design Professional shall update the Drawings for a record of final conditions. The Drawings updates shall include:

8.2.1. Addenda

8.2.2. Post-Bid changes, including changes approved by Change Order

8.2.3. Supplemental Documents

8.2.4. Constructor's field changes, As-Built Documents

END SECTION II - DESIGN DOCUMENTATION AND DELIVERABLES

SECTION III - GENERAL DESIGN STANDARDS

This section contains planning information to be used by Design Professionals in the design of The University of Iowa facilities and infrastructure.

These criteria represent minimum levels of performance, quality, and/or standards, which are sometimes different than those accepted in private and commercial industry. This is in recognition that these facilities must survive longer than normal service lives, without undue cost, while still supporting academic, research, and service missions of The University of Iowa.

The individual guidelines are grouped under major headings of General, Civil, Architectural, Structural, Mechanical, and Electrical. Any conflicts between the requirements in listed reference documents shall be resolved by the Owner.

I. GENERAL

The following information is provided as a general guideline in establishing design requirements.

1. ACCESSIBILITY

1.1. The University of Iowa is committed to the design and construction of facilities which comply with State and Federal requirements for accessibility. The following, codes, standards, and laws shall be used in establishing the very minimum requirements (using the most stringent if there are any differences) for the design and construction of accessible facilities.

1.1.1. Americans with Disabilities Act (ADA)

1.1.2. Department of Justice 2010 ADA Standards for Accessible Design

1.1.3. Iowa State Building Code Chapter F302 – Accessibility of Buildings and Facilities Available to the Public

1.1.4. Iowa Administrative Code Chapter 18 – Parking for Persons with Disabilities

1.1.5. International Building Code (IBC) Chapter 11, and the 2017 ICC A117.1 – Accessible and Usable Buildings and Facilities

1.1.6. The above list shall not be construed as to limit Design Professionals from going beyond these minimal requirements and proposing a higher level of accessible design features. Any design or elements thereof that the Design Professional may question as being aligned with the University's position on universally accessible environments or the ADA's intent, including identification of potential risks associated with code / law interpretations, shall be brought to the attention of the Owner early in the Design Phase to allow for analysis and direction.

1.2. The Design Professional shall coordinate all disciplines and factors that affect the operation of a door to ensure compliance to ADA standards for accessible design.

1.3. Building design, including renovations, shall be based on "Universal Design" concepts and criteria.

1.3.1. Universal Design is defined as "A process that enables and empowers a diverse population by improving human performance, health and wellness, and social participation." (*Steinfeld & Maisel Universal Design – Creating Inclusive Environments*, p. 29) In short, Universal Design makes life easier, healthier, and friendlier for all."

- 1.4. The Design Professional shall submit path of travel accessibility scoping recommendation, including specific elements and associated costs.
 - 1.4.1. Kitchenettes serving an altered area are not required to be included within a path of travel scoping schedule, however break rooms shall be included.
- 1.5. The following limited list identifies items that have been missed or excluded on various new construction or renovation projects and clarification of interpretation and/or clarity on design direction for specific items as required by the Owner:
 - 1.5.1. In new construction, all public entrances to the building shall be designed for universal accessibility.
 - 1.5.1.1. Entrances on an accessible route, including the main entrance, shall be provided with one (1) door, or set of power operated doors.
 - 1.5.1.2. If an entrance to the building other than the main entrance is located closer to the parking designated for persons with disabilities, that entrance shall also be power operated.
 - 1.5.1.3. The main floor or centrally located Men's and Women's restroom shall include a power operated door or be designed without doors.
 - 1.5.1.4. Power operated doors that are sequentially operated shall allow for a one-second-per-foot delay.
 - 1.5.2. In existing buildings, a minimum of one (1) entrance shall provide universal accessibility. The accessible entrance shall be power operated and shall be the main entrance unless otherwise approved by the Owner. Whenever it is physically and economically feasible, all entrances shall be made accessible.
 - 1.5.3. Avoid or eliminate grates or other openings in traveling surfaces.
 - 1.5.4. Employee spaces used for purposes other than job-related tasks (break rooms, tea rooms, kitchen/kitchenettes, copy rooms, conference rooms, lounges, shower and locker rooms, etc.) are considered "common use" and are required to be fully accessible. Sinks shall be accessible with the requirements for a forward approach.
 - 1.5.5. Every public and common use restroom shall have accessibility as required by ADA Standards for Accessible Design.
 - 1.5.6. Provisions shall be made for restroom ambulatory compartments as required by ADA Standards for Accessible Design.
 - 1.5.7. Alterations which could affect the usability of a facility shall be made in an accessible manner to the maximum extent possible.
 - 1.5.8. Door and gate closer push/pull force and closing speed shall comply with the ADA Standards for Accessible Design.
 - 1.5.9. Although areas used exclusively by employees for work are not required to be fully accessible, consider designing such areas to include non-required turning spaces, providing accessible features whenever possible.

- 1.5.10. Elements located in circulation paths (such as Automated External Defibrillator devices, fire extinguishers and Digital Media Monitors) shall be within the protrusion limits as required by the ADA Standards for Accessible Design.
- 1.5.11. Reception and Service Counters are to be designed for universal accessibility and at a minimum, be accessible as required by the ADA Standards for Accessible Design.
- 1.5.12. Alterations that affect an area containing a primary function shall ensure that the path of travel to the altered area is made accessible for individuals with disabilities unless the cost and scope of such alterations is disproportionate to the cost of the overall alteration (as defined in the ADA Standards for Accessible Design). Full carpet replacement (based upon reasons other than standard maintenance practices) in rooms and/or floors containing a primary function shall be considered an alteration.
- 1.5.13. Induction hearing loop systems shall be the system installed for spaces requiring assistive listening systems.
- 1.5.14. Guardrails or permanent barriers shall be provided where the vertical clearance is less than 80 inches high in pedestrian circulation pathways. Areas located under open stairs require access by means of a self-closing gate.

2. COMMISSIONING

- 2.1. The objective of commissioning is to establish and document the Owner's criteria for system function, performance, and maintainability throughout the design, construction, and occupancy and operation phases.
- 2.2. Projects with a construction budget over \$1 million shall default to include commissioning activities.
- 2.3. Systems and components to be Commissioned:
 - 2.3.1. As design progresses, the Owner shall establish the systems to be commissioned. The final list of commissioned systems shall be included in the Bid Documents.
 - 2.3.2. Systems and component selection is based on the following guidelines:
 - 2.3.2.1. Can the facility afford a system or component malfunction without endangering safety, health or significant comfort of occupants or research?
 - 2.3.2.2. Is the system unique when compared to other installations across campus?
 - 2.3.2.3. Does the system operate interdependently with other building or campus systems?
 - 2.3.2.4. Will there be significant impact on energy consumption to operate or maintain the system?
 - 2.3.3. Building Envelope Commissioning shall concentrate on verifying continuous thermal, air and vapor barriers.
- 2.4. The Owner shall inform the Design Professional whether the University, the Design Professional, or an independent third party will act as the University's Commissioning Authority.

- 2.5. The Commissioning Authority is responsible for preparing the following documents, and providing them to the Design Professional for distribution.

- 2.5.1. Design Review Comments

- 2.5.2. Commissioning Specification – Edited copy of the Owner’s Master Commissioning Specification.

- 2.5.3. Review Comments from Constructor Submittals – The focus of this review shall be to develop the Construction Checklists and Functional Performance Tests.

- 2.5.4. Construction Checklists – Project specific pre-functional checklists completed by the Constructor.

- 2.5.5. Functional Performance Tests – Project specific functional performance criteria completed and documented by the Commissioning Agent with Constructor assistance.

- 2.5.6. LEED Documentation – Commissioning documentation as required by LEED.

3. ENERGY

- 3.1. Design Professional shall consider energy efficiency in all designs. Principal considerations are capital cost, operational cost, maintenance cost, climatic conditions, site configuration, building orientation, building functional arrangement, building envelope, and mechanical and lighting systems to minimize the use of energy. Energy efficiency criteria shall be followed by the Design Professional.

- 3.2. Energy conservation criteria shall be followed by the Design Professional to achieve a high performance building and / or system that will:

- 3.2.1. Reduce the total ownership cost of facilities.

- 3.2.2. Improve energy efficiency and water conservation.

- 3.2.3. Provide safe, healthy, and productively built environments.

- 3.2.4. Promote sustainable environmental stewardship.

- 3.2.5. Coordinate energy analysis with utility rebate opportunities.

- 3.3. Construction projects adding new gross square footage and projects enrolled in Commercial New Construction rebate program shall be designed to reduce the energy cost budget a minimum of 20 percent below ASHRAE 90.1, version adopted by the State of Iowa.

- 3.3.1 Available energy reduction strategies identified by the project team shall be presented by the Design Professional for Total Cost of Ownership evaluation by the Owner.

- 3.4. The Design Professional shall conduct an energy analysis as outlined below:

- 3.4.1. Energy impact statements shall be required for projects with estimated construction budget in excess of \$1 million.

- 3.4.2. The Design Professional shall submit energy analysis information to the Owner in electronic format.

- 3.4.3. Energy Impact Statement

3.4.3.1. The Design Professional shall *complete an Energy Impact Statement* with the following information: Refer to *ENERGY IMPACT STATEMENT* in Appendices.

3.4.3.1.1. Project/Building Narrative: Provide a brief narrative describing the operational needs of the building, including, but not limited to:

3.4.3.1.1.1. Gross square footage

3.4.3.1.1.2. Space use type(s) (office, lab, classroom, etc.)

3.4.3.1.1.3. Hours of operation

3.4.3.1.1.4. Utilities required

3.4.3.1.1.5. Mechanical systems description

3.4.3.1.1.6. Lighting systems description

3.4.3.1.1.7. Building shell description.

3.4.3.1.2. Methods and Assumptions: Describe methods and assumptions used to calculate estimated quantities for each of the following categories and discuss significant energy-consuming equipment:

3.4.3.1.2.1. Electrical

3.4.3.1.2.2. Low Pressure Steam

3.4.3.1.2.3. High Pressure Steam

3.4.3.1.2.4. Chilled Water

3.4.3.1.2.5. Domestic Cold Water

3.4.3.1.2.6. Domestic Hot Water

3.4.3.1.2.7. Natural Gas

3.4.3.1.2.8. Storm Drainage System

3.4.3.2. The Design Professional shall provide all relevant calculations including electronic copies of spreadsheets, energy models, equipment data sheets, etc., upon request.

3.4.4. ASHRAE standard 90.1 energy analysis:

3.4.4.1. New Building or Addition Projects – The Design Professional shall assist the Owner in determining if the project will be enrolled in the MidAmerican Energy or Alliant Energy New Construction Program.

3.4.4.1.1. The Design Professional shall demonstrate compliance using the energy cost budget method as described in ASHRAE 90.1 for projects enrolled in the MidAmerican Energy or Alliant Energy New Construction Program.

3.4.4.1.2. The Design Professional shall demonstrate compliance using either the energy cost budget method or the prescriptive method as described in ASHRAE 90.1 for projects not enrolled in the MidAmerican Energy or Alliant Energy New Construction Program.

3.4.4.2. Renovation Projects (construction costs \geq \$1 million) - energy analysis shall be as follows:

3.4.4.2.1. Renovation Projects (construction costs \geq \$1 million) are defined as infrastructure renovations, capital equipment replacement projects and renovations that alter mechanical and electrical systems where the construction costs are estimated to be greater or equal to \$1 million.

3.4.4.2.2. The Design Professional shall demonstrate compliance by using either the energy cost budget method or the prescriptive method as described in ASHRAE 90.1.

3.4.4.3. Renovation Projects (construction costs $<$ \$1 million) - energy analysis shall be as follows:

3.4.4.3.1. Renovation Projects (construction costs $<$ \$1 million) are defined as infrastructure renovations, capital equipment replacement projects, and renovations that alter mechanical and electrical systems where the construction costs are estimated to be less than \$1 million.

3.4.4.3.2. The Design Professional shall demonstrate compliance by using either the energy cost budget method or the prescriptive method as described in ASHRAE 90.1.

3.4.4.4. Energy analysis shall be reviewed and approved by the Owner at the conclusion of design development and construction documents.

3.4.5. Investment Payback Calculations:

3.4.5.1. New Building or Addition Projects – The Design Professional shall conduct a life cycle cost analysis of energy options in accordance with IAC 661-303.4.

3.4.5.2. Renovation Projects – The Design Professional shall conduct a life cycle cost analysis of energy options using the following 2-pronged analysis:

3.4.5.2.1. Simple Payback and Modified Life Cycle Cost.

3.4.5.2.1.1. The Simple Payback: Each investment alternative shall be calculated using: *Payback Period = Annual Energy Savings / Capital Cost of the ECM*

3.4.5.2.1.2. Modified Life Cycle Cost: Where the expected life of two (2) or more alternative systems are significantly different from each other, include the replacement cost of the shorter lived system(s) in the analysis.

3.4.5.3. The service life shall be in accordance with ASHRAE Service Life and Maintenance Cost Database found at: <http://xp20.ashrae.org/publicdatabase>.

3.4.6. Lighting Energy Analysis:

3.4.6.1. Interior Lighting:

- 3.4.6.1.1. The Design Professional shall ensure Lighting Power Densities (LPD) are 30 percent less than allowed by ASHRAE 90.1 and meet the IESNA recommendations for foot candle lighting levels.
- 3.4.6.1.2. The Design Professional shall provide photometrics for review no later than 50 percent Construction Documents.
- 3.4.6.1.3. Submit the LPD compliance form for review no later than 50 percent Construction Documents.
 - 3.4.6.1.3.1. The Design Professional shall use the Owner's LPD compliance form <http://www.facilities.uiowa.edu/pdc/designstandards/index.html> to outline the following:
 - 3.4.6.1.3.1.1. Specific space types involved on the project according to the LPD classifications for the space-by-space method per ASHRAE 90.1.
 - 3.4.6.1.3.1.2. "Typical" foot candle lighting level calculations for all of the spaces listed in the table above. Foot candle levels shall be based on current Illuminating Engineering Society (IES) recommended levels as published in the current IES handbook or the Recommended Practice (RP) associated with the building type.
 - 3.4.6.1.3.2. The Design Professional shall use lighting calculation software to complete the foot candle calculations. Photopia or other lighting simulation files may not be used.
 - 3.4.6.1.3.2.1. Calculation shall identify the room geometry including ceiling height and fixtures and room reflectance values.
 - 3.4.6.1.3.2.2. Light loss factors shall be clearly noted.
 - 3.4.6.1.3.2.3. Initial lighting levels are not acceptable.
 - 3.4.6.1.3.2.4. Manufacturer photometric data (IES file) is required.
- 3.4.6.1.4. The Design Professional shall submit a lighting controls narrative or spreadsheet showing space use, hours of occupation, specific needs (dimming, manual overrides, etc.) and stating whether the lighting controls will be integrated with the A/V or HVAC systems for all space identified on the LPD compliance form. Submit narrative no later than 50 percent Construction Documents.

4. ENVIRONMENTAL COMPLIANCE

4.1. Hazardous Materials:

- 4.1.1. Projects involving hazardous waste, universal waste, and other environmental waste shall coordinate with the Owner to ensure proper storage, handling, and disposal.

4.1.1.1. Hazardous waste includes, but is not limited to: PCBs, lead, mercury, and solvents.

4.1.1.2. Universal waste includes, but is not limited to: batteries, mercury-containing equipment, fluorescent tubes and ballasts.

4.1.1.3. Environmental waste includes, but is not limited to: household hazardous waste, electronic waste, potential for lead-based paint, oil, and hydraulic fluids.

4.2. Asbestos:

4.2.1. Projects involving demolition or renovation require an asbestos inspection. The Design Professional shall coordinate with the Owner to ensure proper inspection, handling, and disposal and to determine permitting requirements.

4.3. Contaminated Soils:

4.3.1. Design Professional shall coordinate with the Owner for proper handling and disposal of known contaminated material and reporting.

4.4. Clean Air Act Compliance:

4.4.1. All sources of emissions, permitted and non-permitted shall be documented by the Owner.

4.4.2. If project includes an air emission source Design Professional shall coordinate with the Owner to ensure exchange of required information. Permitting, monitoring, pollution control, and dispersion modeling shall be coordinated and completed with the assistance of the Owner.

4.4.3. The construction, installation or alteration of any equipment capable of emitting air contaminants requires that an air construction permit from the Iowa Department of Natural Resources be obtained prior to the initiation of construction. Exemptions from the pre-construction permit requirements are provided under Iowa Department of Natural Resources (DNR) rules. Common emissions sources requiring a construction permit include, but are not limited to:

4.4.3.1. Boilers

4.4.3.2. Emergency generators

4.4.3.3. Incinerators

4.4.3.4. Fuel burning equipment

4.4.3.5. Pollution control equipment

4.5. Spill Prevention Control and Countermeasures (SPCC) 40CFR112:

4.5.1. For projects which include installation of any oil storage container or equipment, including cooking oil, with capacity of 55 gallons or larger (including stand-alone drums):

4.5.1.1. Provide double-walled container or secondary containment.

4.5.1.2. Design Professional shall coordinate with the Owner to ensure exchange of required information prior to final review of drawings and specifications.

4.6. Underground Storage Tanks (UST):

- 4.6.1. If the project includes installation of an underground storage tank, Design Professional shall coordinate with the Owner for proper notice and registration with IDNR.
- 4.6.2. If the UST is 19,812 gallons or more, an air construction permit is required. Coordinate with Owner for proper permitting.
- 4.6.3. For removal of an underground storage tank, Design Professional shall coordinate with Owner for proper tank closure procedures and reporting.

4.7. National Pollutant Discharge Elimination System (NPDES):

4.7.1. Municipal Separate Storm Sewer System (MS4) NPDES Permit:

- 4.7.1.1. The Owner's National Pollutant Discharge Elimination System (NPDES), Phase II, Municipal Separate Storm Sewer System (MS4) (NPDES Permit No. 52-25-0-06) permit is available on request.
 - 4.7.1.2. The Owner's MS4 Permit requires implementation and enforcement of a Construction Site Runoff Control Policy Statement (Condition II-D) and a Post-Construction Runoff Control Policy Statement (Condition II-E). This Section of The University of Iowa Design Standards and Procedures constitutes the policy statements required in the MS4.
 - 4.7.1.3. For projects disturbing the land or landscape, consult with Owner to determine applicable permit requirements.
 - 4.7.1.4. Design shall minimize the post-construction storm water runoff to prevent or minimize water quality impacts and minimize the quantity of storm water runoff.
 - 4.7.1.5. The site shall be designed to manage the water quality volume of 1.25 inches, following practices approved by the Iowa Storm Water Management Manual.
 - 4.7.1.6. The site shall be designed to manage the water quantity such that post-construction peak discharge does not exceed existing site peak discharge, based on peak discharges for 2, 5, and 100-year rain events, following practices approved by the Iowa Storm Water Management Manual.
 - 4.7.1.7. Best Management Practices (BMP) include, but are not limited to, storm water detention, retention, grass swales, bio retention swales, riparian buffers, and green roofs. BMPs shall be included in the project design.
 - 4.7.1.8. Design Professional shall submit a narrative describing BMP features, including operation and maintenance requirements no later than 50 percent Construction Documents, and such BMP shall be approved and reviewed by University Environmental Services.
 - 4.7.1.9. If a BMP is not included in the project design, a Deviation Request is required to explain why, listing considerations other than, or in addition to, budgetary concerns.
- 4.7.2. NPDES General Permit No. 2 – Storm Water Discharge Associated with Industrial Activity for Construction Activities:

4.7.2.1. Comply with the requirements of NPDES General No. 2. Consult with Owner to ensure compliance with all applicable permit requirements.

4.7.2.2. Construction Site Runoff Control:

4.7.2.2.1. For construction sites of one (1) acre or more:

4.7.2.2.1.1. Owner is responsible for obtaining the Iowa NPDES General Permit No. 2 for the project.

4.7.2.2.1.2. Consultants shall use Shive-Hattery, Inc. to develop a Storm Water Pollution Prevention Plan (SWPPP) for projects of one (1) acre or more.

4.7.2.2.1.3. Design Professional shall include Owner's permitting requirements in the documents.

4.7.2.2.2. For construction sites less than one (1) acre:

4.7.2.2.2.1. Constructor shall provide sediment and erosion control measures to prevent sediment from leaving the site.

4.7.2.2.2.2. Design Professional shall include Owner's MS4 Permit requirements in the documents.

4.7.3. NPDES General Permit No. 1 – Storm Water Discharge Associated with Industrial Activity:

4.7.3.1. Comply with the requirements of NPDES General No. 1. Consult with Owner to ensure compliance with all applicable permit requirements.

4.7.4. Direct Discharge: If the project includes a direct discharge into waters of the U.S., coordinate with Owner for proper permitting and compliance with requirements.

4.8. Flood Plain Permits: For projects with any activity within a 100-year flood plain, coordinate with Owner for proper permitting.

4.9. Water Use Permits: For projects drawing water from a well or surface water (e.g., pond or river), coordinate with Owner for proper permitting.

5. DEMOLITION

5.1. Permits, hazardous materials, and salvaging of equipment or fixtures shall all be reviewed with the Owner.

5.1.1. A permit shall be required for abandonment of a well. Design Professional shall coordinate with the Owner.

5.1.2. Refer to ENVIRONMENTAL COMPLIANCE for removal of underground storage tanks.

II. CIVIL

The following information is provided as a general guideline in establishing Civil Engineering design requirements.

1. GENERAL

- 1.1. Construction documents shall show all activities contained within construction boundaries indicated on site plan. Specified excavation requirements, precautions, and protective systems shall be taken into consideration when establishing construction boundary.
- 1.2. Ensure movement of trucks and equipment on Owner's property is in accordance with Owner's instructions and depicted on construction documents.
- 1.3. Topsoil shall be stripped from the construction site when possible and stockpiled in designated area for reuse.
- 1.4. Trenches shall not be backfilled until all required tests are completed and the utility systems, as installed, conform to requirements specified by the Construction Documents.
- 1.5. Include a base bid quantity and unit price for rock removal on the Form of Bid when rock is anticipated to be encountered during construction.
- 1.6. Disposal off-site (per direction of Owner). Constructor shall remove excess suitable and unsuitable fill materials from project site and dispose of legally off the Owner's property.
- 1.7. Design Professional shall specify inspection and testing requirements and shall include procedures for evaluation of test data.
 - 1.7.1. All bearing soil and backfill shall be inspected and tested immediately prior to placement of reinforcing steel and concrete and at the discretion of the Owner and the Geotechnical Engineer.
 - 1.7.2. Owner shall retain the services of an Engineering Inspection and Testing Firm. Constructor shall be responsible for coordinating and scheduling inspections.
- 1.8. The Design Professional shall assist the Owner in obtaining all necessary permits for the project.
- 1.9. Post-Construction Storm Water Management: Refer to ENVIRONMENTAL COMPLIANCE for design requirements.

2. SUBSURFACE INVESTIGATION

- 2.1. The Owner shall be responsible for providing record information of underground utility lines and structures.
- 2.2. Constructor shall contact Iowa One-Call for location of utilities 48 hours before any excavation takes place. All locates shall be Joint Locates.
- 2.3. If investigative soils analysis is required during project design, Owner shall retain a Geotechnical Engineer.
- 2.4. The Geotechnical Engineer, in consultation with the Owner and the Design Professional, shall determine number, sizes, depth, and proposed location of borings and/or pits. In general, there shall be one (1) boring for every 10,000 square feet of building footprint, with a minimum of four (4) soil borings. To the extent possible, borings shall be located near the location of proposed footings/piers.
- 2.5. Boring information shall be shown, with dimensions, on a plot plan to be submitted in two (2) copies by the Design Professional to the Owner at least five (5) working days prior to proposed sampling.

2.6. The plan shall show:

- 2.6.1. A graphic scale, north arrow, and location of existing buildings and trees.
- 2.6.2. Above and below ground service/utility lines (both utility company and University-owned).
- 2.6.3. Pavement areas and established benchmark(s) with elevation(s) noted.
- 2.6.4. Existing site features, not specifically mentioned, impacting boring or pit locations.
- 2.6.5. The soils/geotechnical report shall be included as an informational item of the bidding documents in the general requirements, Section I.

3. SITE SURVEY

- 3.1. For new construction and major renovations, a complete and thorough site survey shall be conducted prior to Design Development to identify all existing above and below ground site and utility features on the project site. This survey shall include, but not be limited to:
 - 3.1.1. Any active or abandoned utility whether University of Iowa, City of Iowa City or private utility company services.
 - 3.1.2. Adequate topographic information and spot elevations to allow for proper design for drainage.
 - 3.1.3. Location, size and name of all plant material. This information shall be provided to Owner for evaluation of condition and determination of protective measures during construction.
 - 3.1.4. Location and type of all site lighting fixtures.
 - 3.1.5. Location of all structures, parking lots, sidewalks, roads, paths, etc.

4. LANDSCAPING

4.1. General:

- 4.1.1. Selection of landscape plant materials shall be based on USDA Hardiness Zone 5a.
- 4.1.2. Refer to Campus Urban Forest Study, available at <http://www.facilities.uiowa.edu/space/campus-planning/>, and *LANDSCAPING PROHIBITED PLANT LIST*, and *LANDSCAPING RECOMMENDED PLANT LIST* in Appendices for plant species.
- 4.1.3. Selected plant materials shall not be on the Iowa Department of Natural Resources Invasive Plant Species list at: <http://www.iowadnr.gov/Conservation/Forestry/Forest-Health/Invasive-Plants>
- 4.1.4. The Design Professional shall meet with the Owner during Design Development to evaluate project impact on existing plantings and shall clearly identify any plantings proposed for removal. Proposed removals shall be reviewed and approved in writing by the Owner.
- 4.1.5. All proposed plant material selections shall be approved by Owner. Plant selection shall be submitted no later than 50 percent Construction Documents.
- 4.1.6. Planting Schedules

4.1.6.1. A planting schedule shall be provided in the Construction Documents.

4.2. Soils:

4.2.1. Refer to Section IV for information.

4.3. Plantings:

4.3.1. Group Plantings

4.3.1.1. Group plantings are encouraged due to the benefits of trees in close proximity.

4.3.1.2. Group planting shall be considered for the following locations

4.3.1.2.1. Green streets, such as a median or traffic triangle, with the opportunity for a large planting bed.

4.3.1.2.2. Continuous tree pit, where two or more trees are planted in a single trench in the sidewalk. Minimum continuous tree pit shall be 30 feet.

4.3.1.2.3. Raised planting bed within a plazas or alongside pedestrian passageways.

4.3.2. Trees and Shrubs

4.3.2.1. Critical Root Zone Protection

4.3.2.1.1. Refer to *LANDSCAPING TREE PROTECTION DETAIL* in Appendices.

4.3.2.1.2. The critical root zone (CRZ) shall be shown for each planting to remain.

4.3.2.1.3. Plantings to remain shall be protected by fencing installed to define the limits of the CRZ. Fence shall be installed prior to Constructor beginning site work, using the following formula and criteria:

4.3.2.1.3.1. Diameter of tree trunk is measured 4 ½ feet above ground level.

4.3.2.1.3.2. The diameter in inches is multiplied by 1 ½ feet to obtain the critical root zone radius.

4.3.2.1.3.3. When the above CRZ radius cannot be met, obtain written approval from Owner for alternate method.

4.3.2.1.4. Fence shall remain intact throughout the construction period.

4.3.2.1.4.1. Fences shall be regularly inspected by the Owner. Identified deficiencies shall be immediately corrected.

4.3.2.1.4.2. If the health or welfare of the planting is determined to be at risk by the Owner, protection will be installed or augmented by the Owner at the Constructor's cost.

4.3.2.1.5. Projects with an anticipated duration of eight (8) months or longer shall have galvanized chain link fence posts and fabric, minimum height of 4 feet 0 inches.

4.3.2.1.6. No construction activities shall take place within the CRZ.

4.3.2.1.7. No equipment, materials, supplies and/or salvage shall be stored or placed within the CRZ.

4.3.2.2. The following species shall not be used along streets.

Ash	Black Locust	Box Elder
Catalpa	Conifers	Mountain Ash
Mulberry	Poplars	Russian Olive
Silver Maple	Tree of Heaven	Willows

4.3.3. Turf

4.3.3.1. Finished turf areas shall have a final grade no steeper than 1 foot vertically to 3 feet horizontally. Steeper areas shall be covered with ground covers or modified with walls or other treatments.

4.3.3.2. Providing adequate turf coverage to allow timely acceptance for National Pollutant Discharge Elimination Systems (NPDES), Phase II, Municipal Separate Storm System (MS4) storm water management permits shall be considered in selecting seed or sod.

4.3.3.3. Seed and Sod

4.3.3.3.1. Sod shall be provided at building entrances and high profile areas or when required for erosion control.

4.3.3.3.2. Seeding is preferred for long-term establishment. Selection of seed mix shall be based on site specific issues and reviewed with Owner.

4.3.3.3.3. Dormant seeding is allowable with written approval from Owner.

4.4. Landscape Furniture and Fixtures:

4.4.1. Site plans shall indicate the location of all site furniture (benches, signs, fences/barriers, bike racks, landfill and recycling receptacles, etc.).

4.4.2. Benches:

4.4.2.1. Stone and concrete benches shall not be used.

4.4.2.2. Benches shall be from Landscape Forms.

4.4.3. Custom designed site furnishings shall require written approval from Owner.

4.4.4. All metal shall be painted black.

4.4.5. All wood shall be lpe.

4.4.6. Any surface greater than 6 inches and less than 4 feet 0 inches above grade and over 4 feet 0 inches in length, adjacent to a smooth paved surface, shall be designed to deter skateboard and inline skate damage.

4.4.6.1. This shall include retaining walls, handrails, seat walls and site furniture benches, etc.

4.4.6.2. Proposed solutions shall complement and be an integral part of the overall site design.

4.4.7. Where necessary to control pedestrian traffic, the standard post and chain fence shall be used. Refer to *LANDSCAPING POST AND CHAIN FENCE DETAILS* in Appendices.

4.4.8. Bicycle Parking

4.4.8.1. Bicycle parking shall be provided per UI Parking and Transportation requirements.

4.4.8.2. Bicycle parking shall be evaluated based on the building programming, existing demand, and future growth.

4.4.8.2.1. Current guidelines are one (1) bicycle space for each ten (10) employees plus one (1) space for each ten (10) students of planned capacity or one (1) space for each 20,000 square feet of floor space, whichever is greater.

4.4.8.2.2. Minimum of two (2) spaces, as based on the Association of Pedestrian and Bicycle Professionals' Bicycle Parking Guidelines.

4.4.8.2.3. Final bicycle count shall be approved by Owner.

4.4.8.3. Bicycle racks shall be located along a major building approach line and clearly visible from the approach.

4.4.8.3.1. The rack area shall be within 50 feet of an actively used building entrance but no farther than 120 feet from an entrance.

4.4.8.3.2. A rack area shall be as close as, or closer than, the nearest car parking space.

4.4.8.3.3. Bicycle racks shall be the Bike Rib Series Linear Rack, galvanized steel, as manufactured by Function First, Inc. Finish shall be black powder coated.

4.4.8.3.4. Parallel racks shall be installed to allow pedestrian traffic between parked bikes.

5. ROADWAYS, PARKING LOTS, AND WALKWAYS

5.1. General:

5.1.1. Curbs shall be Portland cement concrete.

5.1.2. Pavements shall be designed to accommodate the design vehicle for the pavement's use.

5.1.3. The minimum lane width shall be 10 feet, excluding curb and shy distance (concrete pavements), curb and gutter (asphalt pavements), or striping. Curve radii and intersection radii shall accommodate the design vehicle's design speed and turning movements.

5.1.4. For parking lots abutting lawn areas, incorporate concrete pavement mowing strips.

5.1.4.1. Mowing strip pavement shall be minimum width of 24 inches.

5.1.4.2. Locate mowing strip pavement on the lawn side of the curb or parking bumpers to allow for mowing while parking spaces are occupied.

5.1.5. All sidewalks, ramps, and other paved, exterior walking surfaces shall be concrete. Concrete pavers may be used in limited areas as accents.

5.1.6. All materials shall be slip resistant.

5.1.7. Ramps shall be a minimum width of 7 feet clear of handrails and/or walls. Any switchback on a ramp shall be dimensioned to allow Bobcat-type snow removal equipment to navigate turns.

5.1.8. Design shall be in accordance with AASHTO "GREEN BOOK"— A Policy on Geometric Design of Highways and Streets.

5.1.9. Brick used as paving material shall be paving grade, set in a concrete base, with an asphalt leveling course.

5.2. Roadways:

5.2.1. Asphalt and Portland Cement Concrete Paving

5.2.2. The ratio of slab width to length shall not exceed 1.67 for street pavements.

5.2.3. Variance in joint spacing may be permitted to achieve desired architectural effect as approved by Owner.

5.3. Parking Lots:

5.3.1. All accessible parking spaces shall be designed per "universal accessible" criteria defined in Iowa Administrative Code Section 661-18.3 Exception.

5.3.2. Parking spaces, other than accessible shall be 8 feet 6 inches in width. No compact car spaces shall be permitted.

5.3.3. All accessible parking spaces shall be designed per "universal accessible" criteria as defined in Iowa Administrative Code Section 661-18.3.

5.3.4. Metered accessible parking spaces shall include curb-cuts and sidewalk access to the meters.

5.4. Walkways:

5.4.1. All sidewalks shall have a minimum width of 8 feet. Where a sidewalk runs parallel and is immediately adjacent to a roadway back of curb, minimum width shall be 10 feet. The first 2 feet from the back of curb shall be black concrete.

5.4.2. Walks adjacent to roads or driveways shall not have grass strips between sidewalk and road or driveway, unless a minimum 8 foot grass strip can be provided.

- 5.4.3. A medium broom finish shall be applied perpendicular to traffic flow. All brooming directions shall be shown on the drawings and described in the specifications.
- 5.4.4. All sidewalks leading up to a vehicular roadway or route shall have a detectable warning plate installed. Location of plate shall be perpendicular to path of travel and run adjacent to back of curb. Blended radius curb ramps at street intersections shall not be permitted.
- 5.4.5. Site steps are not allowed on public sidewalks when ADA requirements can be accomplished with a ramp. Design accessible exterior routes without ramps when possible and use alternatives such as sidewalks and proper grading to achieve gentler slopes.
- 5.4.6. The ratio of slab panel width to length shall not exceed 1.25.
- 5.4.7. Variance in joint spacing may be permitted to achieve desired architectural effect as approved by Owner.
- 5.4.8. Concrete color shall be specified to match surrounding walkways.

6. TEMPORARY TRAFFIC CONTROL

6.1. General:

6.1.1. Barricades

- 6.1.1.1. Construction sites in or adjacent to the pedestrian access route shall be protected with a barricade.
- 6.1.1.2. Barricades shall be installed in the following locations:
 - 6.1.1.2.1. Between the pedestrian access route and any adjacent construction site.
 - 6.1.1.2.2. Between the alternate circulation path and any adjacent construction site.
 - 6.1.1.2.3. Between the alternate circulation path and the vehicular way, if the alternate circulation path is diverted into the street.
 - 6.1.1.2.4. Between the alternate circulation path and any protruding objects, drop-offs, or other hazards to pedestrians.
 - 6.1.1.2.5. At the down curb ramp of an intersection, if the opposite up curb ramp is temporarily and completely blocked, and no adjacent alternative circulation path is provided.
- 6.1.1.3. Wooden railing, fencing, and similar systems placed immediately adjacent to motor vehicle traffic shall not be used as substitutes for crashworthy temporary traffic barriers.
- 6.1.1.4. Tape, rope or chain shall not be used as a control for pedestrian movements or as a safeguard to protect individuals from hazards.
- 6.1.1.5. Barricades are not required where the construction site or alternate-circulation path is enclosed with a solid, cane-detectable fence or wall.

- 6.1.1.6. Where protection is provided using a solid fence or wall, a painted or applied horizontal 6 inch minimum stripe in 70 percent contrast shall be provided at between 42 and 60 inches above the adjacent grade.
- 6.1.1.7. Barricade specifications:
 - 6.1.1.7.1. Shall meet or exceed ADA guidelines and MUTCD standards. Use Plastic Safety Systems Safety Wall ADA compliant pedestrian barricades or approved equal.
 - 6.1.1.7.2. Construction barricades at the alternate circulation path shall be continuous, stable and non-flexible.
 - 6.1.1.7.3. Shall have a solid toe rail with its top edge at 6 inches minimum in height and its bottom edge no higher than 1 ½ inches above the adjacent surface.
 - 6.1.1.7.4. Shall have a continuous railing mounted at a top height of 36 to 42 inches with diagonal stripes having at least 70 percent contrast.
 - 6.1.1.7.5. The top rail shall be parallel to the toe rail and be situated to allow pedestrians to use the rail as a guide for their hand(s) for way-finding purposes.
 - 6.1.1.7.6. Barricade support members shall not protrude more than 4 inches beyond the toe rail into the alternate circulation path.

6.1.2. Warnings and Signage

- 6.1.2.1. Warning signs shall be posted when an alternate circulation path or a barricade is created in the public right-of-way.
- 6.1.2.2. Warnings shall be located at both the near side and the far side of the intersection preceding a temporarily completely blocked pedestrian way.
- 6.1.2.3. Proximity actuated audible information devices or flashing beacon lights which are accompanied by an audible tone are the most desirable ways to provide information to pedestrians with visual disabilities (equivalent to visual signing for notification of sidewalk closures).
- 6.1.2.4. Maintaining a detectable, channelized pedestrian route is preferred over closing a walkway and providing audible directions to an alternate route involving additional crossings and a return to the original route.
- 6.1.2.5. Wall and/or post-mounted signs with a leading edge between 27 and 80 inches above ground shall protrude no more than 4 inches. When signs are mounted between two (2) posts spaced more than 12 inches apart, a cross bar 15 inches above the ground connecting the two (2) posts is required.
- 6.1.2.6. Adequate lighting shall be required to provide visibility of signage during non-daylight hours.
- 6.1.2.7. Visual characters shall comply with the 2010 ADA Standards for Accessible Design, Section 703.5, excluding 703.5.1. Finish and contrast shall be eggshell finish with a minimum 70 percent visual contrast.

6.1.2.8. Pedestrian control signage shall be white with black lettering, except the S1-1 and R1-6A signs.

6.2. Vehicular Traffic:

6.2.1. Temporary traffic control shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

6.2.2. Construction activity impacting any street shall have a temporary traffic control plan approved by the appropriate agency

6.2.2.1. Iowa City Engineer's Office

6.2.2.2. Coralville City Engineer's Office

6.2.2.3. Iowa Department of Transportation

6.2.2.4. The University of Iowa - Building & Landscape Services

6.2.3. Construction Documents shall include language for Constructor to provide and install temporary construction project signage, with Constructor responsible for maintaining as installed through project completion.

6.2.4. Signs may be installed on the project fencing or supported independently, depending on site conditions.

6.3. Pedestrian Traffic:

6.3.1. Pedestrian safety and planning, like traffic control planning, shall be included in bid documents and address the following, with a pedestrian safety and ADA plan that includes:

6.3.1.1. Limits of construction (staging areas, entrance to construction site / staging areas, vehicular circulation to and through site).

6.3.1.2. Pedestrian routes around construction site (accessible routes, accessible parking locations, crosswalks, curb-cuts).

6.3.1.3. Building entrances (key building entrances and service areas to be maintained, accessible building entrances).

6.3.1.4. Signage plan (proposed pedestrian signage, designated pedestrian routes, signage location).

6.3.1.5. Details of proposed pedestrian safety improvements (temporary sidewalks, ramps, etc.).

6.3.1.6. Phasing (separate plans indicating construction phasing and schedule).

6.3.2. Pedestrian control plans shall be in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) Part 6: Temporary Traffic Control

6.3.3. Alternate / Temporary Pedestrian Circulation Paths

- 6.3.3.1. An alternate circulation path shall be provided whenever the existing pedestrian access route in the public right-of-way is blocked by construction, alteration, maintenance or other temporary conditions.
- 6.3.3.2. Where the alternate circulation path is adjacent to potentially hazardous conditions, the path shall be protected with a barricade.
- 6.3.3.3. The alternate circulation path shall have no protrusions up to a height of 80 inches, including scaffolding and scaffolding braces.
- 6.3.3.4. A pedestrian route shall not be severed and/or moved for non-construction activities, such as parking for vehicles and equipment.
- 6.3.3.5. Access to transit stops shall be maintained.
- 6.3.3.6. Where possible, the alternate circulation path shall parallel the disrupted pedestrian access route, on the same side of the street.
- 6.3.3.7. The alternate circulation path shall consist of a smooth, continuous hard surface with no curbs or abrupt changes in grade or terrain that could cause tripping or be an impediment to wheelchair use.
- 6.3.4. Movement by work vehicles and equipment across pedestrian walkways shall be minimized and, when necessary, shall be controlled by flaggers.
- 6.3.5. Staging or stopping of work vehicles or equipment along the side of pedestrian paths shall be avoided.
- 6.3.6. Access to the work space by workers and equipment across pedestrian walkways shall be minimized.

7. SANITARY SEWER

7.1. General:

- 7.1.1. Sanitary sewers shall be designed in accordance with the standards and requirements of The Iowa Department of Natural Resources.
- 7.1.2. Sewer systems shall be designed to carry traffic loads in all locations.

7.2. Piping:

- 7.2.1. Refer to Section IV for information.

7.3. Accessories:

- 7.3.1. Review manhole numbering with Owner.
- 7.3.2. Pre-cast concrete manholes shall comply with ASTM C478 or ASTM C76, Class 3.
- 7.3.3. Cast-in-place manholes shall be fully detailed in the construction documents.

8. STORM SEWER

8.1. General:

- 8.1.1. Rational Formula shall be used. Runoff Coefficients shall be selected from the tables in the current version of SUDAS, Chapter 2 Storm Water.
- 8.1.2. This section applies to storm water conveyance systems outside the footprint of buildings. Refer to Mechanical Systems section for building systems.
- 8.1.3. Design Professional shall submit estimated storm water loads to Owner for evaluation with the West Campus Storm Water Study no later than Design Development Documents. Refer to Section II for information.
- 8.1.4. Trunk storm sewers are defined as the primary spine(s) of the piping system and generally carry the flow from more than one (1) site.
- 8.1.5. Storm water systems shall be designed using the actual time of concentration. The worst case of complete development, per the current Campus Master Plan, or current conditions shall be used for calculation of offsite flow.
- 8.1.6. No ponding is allowed on paved areas. Detention basins shall be labeled on the drawings.
- 8.1.7. Return Periods
 - 8.1.7.1. Return periods shall be twenty-five (25) years with actual time of concentration (duration) for all building sites, pedestrian malls, streets, quadrangles, and trunk storm sewers.
 - 8.1.7.2. Return periods shall be ten (10) years with actual time of concentration (duration) for parking lots, park space, and open areas.
 - 8.1.7.3. Owner shall establish "return periods" for all other areas. Return period shall satisfy governing municipality's regulations.
 - 8.1.7.4. Design Professional shall compare above return periods with those required by the local municipality. Coordination with municipality may be required and shall be reviewed with the Owner. Any discrepancies shall be discussed with the Owner.
- 8.1.8. Buildings and structures shall be developed so water does not enter through doors, window wells, area ways, basements, drains, etc., during a minimum hundred-year storm. Design shall maintain positive drainage away from building entrances.
 - 8.1.8.1. Connections to building drains shall be designed to prevent surcharge from the storm sewer for the hundred-year storm.
 - 8.1.8.2. Sidewalk grade shall be set to prevent surface from collecting and channeling surface drainage.

8.2. Piping:

- 8.2.1. Storm pipes shall run on a straight line and grade between structures.

- 8.2.2. Horizontal and vertical bends are permitted in roof drain connections provided a cleanout is included. The deflection shall utilize a wye with the cleanout as an upstream extension of the downstream line's alignment.

8.3. Accessories:

8.3.1. Intake Grates

- 8.3.1.1. Grates shall be placed outside of pedestrian pathways.

- 8.3.1.2. Grates placed within pedestrian pathways require written approval from Owner.

- 8.3.1.2.1. Refer to the current edition of "ADA Standards for Accessible Design, Floor or Ground Surfaces" for maximum spacing and configuration.

- 8.3.1.2.2. Consideration shall be made regarding the types of traffic, material transported in the area, and types of footwear expected.

9. DOMESTIC WATER

9.1. General:

- 9.1.1. Design Professional shall submit estimated total connected building domestic and fire protection water loads for evaluation with the Campus Hydraulic Model no later than Design Development Documents. Refer to Section II for information.

- 9.1.2. Flushing instructions shall be explicit in drawings, including source of water, outlet point, air relief vents, and final destination of water.

9.2. Piping:

- 9.2.1. Piping shall conform to AWWA standards and the requirements of the Iowa DNR.

- 9.2.2. Piping shall have an Iowa DNR permit. Permit shall be filled out by the Design Professional and signed by the Owner.

9.3. Accessories:

- 9.3.1. Water meters shall be located inside buildings. Provide a ¾ inch conduit from the meter back to a central Utility PLC location for remote meter monitoring. Refer to *UTILITY DISTRIBUTION DOMESTIC WATER METER DETAIL* in Appendices. Design Professional shall consult with Owner to coordinate meter sizing and location.

- 9.3.2. Fire hydrants shall be provided in accordance with the requirements of the local fire district or department. Hydrants shall be provided with an auxiliary valve, installed with the streamer directed toward a street or drive. Hydrants shall match existing campus hydrants. Refer to *UTILITY DISTRIBUTION HYDRANT DETAILS* in Appendices.

9.4. Testing:

- 9.4.1. Refer to Section IV for information.

9.5. Final Connections to Existing Domestic Water Main:

9.5.1. Refer to Section IV for information.

10. NATURAL GAS

10.1. Natural gas piping upstream of the meter shall be coordinated with the Natural Gas Provider.

10.2. Natural gas piping downstream of meter shall be coordinated with the Owner and shall not be buried.

11. CHILLED WATER

11.1. General:

11.1.1. Coordinate the building central chilled water interface design and anticipated usage with Owner.

11.1.2. Provide for the installation of control equipment and a communications pathway to support central chilled water interface monitoring and control, including the Utility PLC with ¾ inch conduit to all metering and control devices. The Utility PLC shall be indicated on the floor plans.

11.1.3. Condensing water systems shall be equipped with automatically controlled water treatment and blow down systems designed to control scale buildup, corrosion, and concentration of dissolved solids. Coordinate equipment requirements with Owner.

11.1.4. Provide controls for every device.

11.1.5. Three-way or on/off valves shall not be used.

11.1.6. Size control valves for the entire range of flow, considering the maximum pressure drop possible. System pressure shall not be allowed to overpower any control valve. Use the flow coefficient provided by the manufacturer to determine the maximum allowable pressure drop for each valve.

11.1.7. Verify final valve sizing with The University of Iowa Chilled Water Plant.

11.2. Piping:

11.2.1. Refer to Section IV for information.

11.3. Accessories:

11.3.1. Refer to Section IV for information.

11.4. Testing:

11.4.1. Refer to Section IV for information

12. STEAM AND CONDENSATE

12.1. General:

12.1.1. Steam lines designated as a main Campus steam service shall be installed in a utility tunnel.

12.1.2. Design steam and condensate systems to 175 psig, and 500 degrees F.

12.1.3. Condensate systems shall be equipped with automatically controlled water treatment and blow down systems designed to control scale buildup, corrosion, and concentration of dissolved solids.

12.1.4. Coordinate steam distribution system load design requirements, available steam distribution facilities and operational needs of the steam plant with Owner.

12.1.5. Provide provisions for pipe expansion.

12.1.6. Design condensate systems to account for condensate load during steam startup.

12.2. Piping:

12.2.1. The Design Professional shall furnish design pipe size and flow information to the Owner.

12.3. Accessories:

12.3.1. Meter Stations

12.3.1.1. Meter stations are required for steam system usage points at each building.

12.3.1.2. Each meter station shall consist of a V-cone steam flow meter and multi variable transmitter with Tri-Loop.

12.3.1.2.1. Project shall provide raceway from each steam flow meter to the utilities PLC cabinet.

12.3.1.2.2. Design Professional shall consult with Owner to size the V-cone steam meter and include the final design sizing on the mechanical schedules.

12.3.1.2.3. The Utility PLC shall be shown on the floor plans.

12.3.1.3. Review product specifications, sizing, manufacturer numbers and cabling with the Owner.

12.3.2. Steam Trapping Stations

12.3.2.1. Trapping stations shall be located every 250 feet and at elevation changes on steam lines.

12.3.2.2. Direct-bury steam systems shall require steam vaults to access trapping stations.

12.3.2.3. Refer to *UTILITY DISTRIBUTION STEAM TRAPPING STATION DETAIL* in Appendices.

12.3.3. Pressure Reducing Valves (PRV): Every building shall have a PRV.

12.3.4. Piping Penetrations: Through walls shall be detailed on drawings.

12.3.5. Supports and Anchors

12.3.5.1. All piping hangers and anchors shall be properly designed to avoid excessive stress in any pipe section.

12.3.5.2. Support and anchoring details shall be provided for all steam and condensate piping.

12.3.5.3. Supports and Anchors shall be detailed on the drawings. All anchor points shall be reviewed by a Structural Engineer.

12.3.6. Expansion joints: Expansion joints shall be piston type and shall be detailed on the drawings.

12.3.7. Provide pressure and temperature gauges on steam pipe in each vault and at each building takeoff in utility tunnels. Include valves to isolate gauges.

12.3.8. Equip all steam distribution pipes with drain valves.

12.3.8.1. Valves shall drain condensate collected when pipe is isolated from the system.

12.3.8.2. Valves shall remove all condensate prior to any warm-up procedures / returning pipe to service.

12.3.8.3. Locate drain valves on both sides of any distribution isolation valve and building side of any service isolation valve.

12.4. Testing:

12.4.1. Provisions for Steam-Blow shall be shown on design drawings and procedures shall be reviewed by the Owner and Engineer of Record.

13. UTILITY TUNNELS

13.1. Refer to Section IV for information.

14. ELECTRIC DISTRIBUTION

14.1. General:

14.1.1. Refer to Section IV for information.

14.2. High Voltage Equipment:

14.2.1. Refer to Section IV for information.

14.3. Ductbank:

14.3.1. Refer to Section IV for information.

15. COMMUNICATIONS DISTRIBUTION

15.1. General:

15.1.1. Refer to Section IV for information.

15.2. Underground Pathways:

15.2.1. Refer to Section IV for information.

15.3. Building Entrance Pathway:

15.3.1. Refer to Section IV for information.

15.4. Communication Manholes:

15.4.1. Refer to Section IV for information.

15.5. Termination, Splicing, and Testing:

15.5.1. Refer to Section IV for information.

15.6. Testing:

15.6.1. Refer to Section IV for information.

III. ARCHITECTURAL

The following information is provided as a guide in establishing architectural requirements and shall not be construed to limit the Design Professional from proposing more cost effective alternates.

1. GENERAL

1.1. Building Elevations:

1.1.1. Finished floor height shall be expressed on construction documents as actual elevation based on The University of Iowa's datum.

1.1.2. Floor elevations shall be continuous without height transitions between floor types.

1.2. Standard Floor and Room Numbering:

1.2.1. Space Information shall assign all building and room numbers.

1.2.2. The Design Professional shall provide the Owner with an electronic copy of the plan drawings. The renumbering of any room, group of rooms or all rooms within a building, or the initial numbering of rooms within a new building, building addition, or acquired building is subject to the approval of PSM.

1.2.3. Room Numbering Assignment and Update Process:

1.2.3.1. By the end of the Schematic Design phase, the Design Professional shall provide floor plan(s) to PSM for review. Rooms and other spaces, including exterior entries, shall be numbered in accordance with University conventions and returned.

1.2.3.2. The project shall use the room numbers provided for in the Design Development documents.

1.2.3.3. If the building/room layout changes at Design Development, or any subsequent phase, the Design Professional shall request an update to the room numbering plan from PSM.

1.2.3.4. Construction Documents shall not be issued for bid without completing steps 2 and 3.

- 1.2.3.5. Room names and numbers shall be identified on all floor plan drawings.
- 1.2.3.6. Per the Standard Form of Agreement, the Design Professional shall submit CAD drawings of the Construction Documents to PSM within ten (10) working days of the award of construction Contract.
- 1.2.3.7. Design Professional shall notify Owner of any changes during the course of construction that impact room numbering or entry doorways. Owner shall provide new room numbering designations. The Design Professional shall update the Construction Documents, including finish and door schedules, with the new room numbering designations.
- 1.2.3.8. The Design Professional shall include the final room number designations and updated schedules in the Record Documents.

2. BUILDING ENVELOPE

2.1. General:

- 2.1.1. The building envelope shall comply with ASHRAE/IES Standard 90.1.
- 2.1.2. The wall assembly shall have a minimum R-value of 24 (not averaged).
- 2.1.3. The roof assembly shall have a minimum R-value of 30 (not averaged).

2.2. Exterior Building Materials:

- 2.2.1. Exterior building materials shall be selected to maintain and/or compliment the harmonious nature of the campus. Care shall be given to provide a consistent image to the character of the campus.
- 2.2.2. Materials shall be practical, maintenance free, durable, and cost effective.
- 2.2.3. Exterior walls systems of brick or stone are preferred over metal.
- 2.2.4. Block backup is preferred over the use of steel stud backup.
- 2.2.5. Exterior insulation and finish systems (EIFS), stucco, and plaster shall not be used as the primary finish of a building or renovation.

2.3. Exterior Enclosure Performance Requirements:

- 2.3.1. Materials used for the air barrier system in the opaque envelope shall have an air permeance not to exceed 0.0002 cfm/ft² under a pressure differential of 0.3 inch water (1.57 psf) (0.02 L/s.m² @ 75 Pa), when tested in accordance with ASTM E 2178.
- 2.3.2. Materials used for the weather barrier system in the opaque envelope shall be vapor impermeable with a water vapor permeance not to exceed 0.08 perms when tested in accordance with ASTM E96 – method B. Water absorption shall not exceed 0.1 percent maximum when tested in accordance with ASTM D570.

3. ROOFING

3.1. General:

3.1.1. Roofing systems shall comply with the following:

3.1.1.1. Underwriters Laboratory (UL):

3.1.1.1.1. UL labels are required for each membrane, with top side fire rating meeting ASTM E108 Class A.

3.1.1.2. National Roofing Contractors Association (NRCA), Roofing and Waterproofing Manual.

3.1.1.3. Sheet Metal and Air Conditioning Contractors Association International (SMACNA), Architectural Sheet Metal Manual.

3.1.1.4. American Society for Testing and Materials (ASTM) standards for polymer-modified bitumen D5147, D6162, D6163, and D6164.

3.1.1.5. FM Global RoofNav:

3.1.1.5.1. Minimum 1-60 SH (severe hail) approved rating.

3.1.1.5.2. All components shall be approved for both individual and use in a listed assembly.

3.1.2. Roof Access and Safety:

3.1.2.1. OSHA-approved fall protection systems shall be included on all roof systems.

3.1.2.2. Stairs shall be provided for roof access.

3.1.2.3. Ladders and ships ladders are not acceptable.

3.1.3. Verify wind velocity requirements with the Owner.

3.1.4. All roofing materials shall be asbestos-free.

3.1.5. The Design Professional shall consider the following design parameters when selecting a roof system:

3.1.5.1. Life expectancy of building

3.1.5.2. Life of the roof system

3.1.5.3. Present and future use of building, including specific uses in the building that could affect the roof system

3.1.5.4. Aesthetics

3.1.5.5. Initial cost of the roof system and additional building costs required for recommended roof system

3.1.5.6. Maintenance costs and requirements

3.1.5.7. Energy costs associated with recommended roof system

3.1.5.8. Building height, roof slope, wind resistance requirements

- 3.1.5.9. Local environmental issues, contaminants and pollutants
- 3.1.5.10. Structural properties of roof superstructure
- 3.1.5.11. Type of roof deck
- 3.1.5.12. Vapor retarder requirements
- 3.1.5.13. Roof traffic, access and penetrations
- 3.1.5.14. Code and insurance requirements and restrictions
- 3.1.5.15. HVAC internal pressures
- 3.1.5.16. Application issues, such as staging
- 3.1.6. The Design Professional shall follow these roofing guidelines when designing the roofing system:
 - 3.1.6.1. Single-ply ballasted roofs and spray foam roofing system shall not be used.
 - 3.1.6.2. Overflows are required and shall not be piped into the primary roof drain system. Highly visible systems such as scuppers and open site drains are preferred.
 - 3.1.6.3. Locate roof drains at projected low points.
 - 3.1.6.4. Provide roof walkways to and around rooftop equipment, and other areas, as directed by the Owner. Roof mats shall be a non-slip material.
 - 3.1.6.5. Rooftop equipment /systems shall have an OSHA-approved guardrail or parapet. Roof tie-offs are not allowed.
 - 3.1.6.6. Supports for rooftop-mounted equipment shall be a minimum 14 inch height above finished roof. Use prefabricated equipment supports where possible. Equipment support frames or stands shall provide following working clearances:

<u>EQUIPMENT WIDTH</u>	<u>HEIGHT ABOVE FINISHED ROOF</u>
Up to 25 inches	14 inches
25-37 inches	18 inches
37-49 inches	24 inches
49-61 inches	30 inches
Over 61 inches	48 inches

- 3.1.6.7. Existing roof decks shall be checked by a Registered Structural Engineer, as directed by Owner.
- 3.1.6.8. Existing roof access shall be evaluated, and roof access hatches, ladders, and other components shall be installed.
- 3.1.6.9. Minimize use of pitch pans or sealant pockets. Maintain minimum 12 inch flashing height above finished roof.
- 3.1.6.10. Minimize roof penetrations. If structural penetrations are unavoidable, use round structural steel shapes to facilitate flashing.
- 3.1.6.11. Account for thermal break(s).
- 3.1.6.12. In new construction, roof shall have a minimum design slope of ¼ inch per foot.
- 3.1.6.13. In reroofing, the roof shall have a minimum slope of 1/8 inch per foot. Tapered insulation may be necessary to achieve required slope.
- 3.1.6.14. Use crickets, saddles and edge strips, tapered at 2 times slope, to direct water from penetrations and parapet walls.
- 3.1.6.15. Green roof systems and equipment located on the roof shall be a minimum of 10 feet from the roof edge (all sides) or provide a 42 inch high roof parapet or railing. Tie-offs are not allowed.

3.2. Roofing Systems:

3.2.1. Green Roof Systems:

- 3.2.1.1. Design shall include a fully-integrated roof assembly, including growth, protection, root barrier, drainage, water barrier, insulation, and associated components. System shall be complete and warrantable.
- 3.2.1.2. Vegetative roof systems shall form continuous coverage and be composed of a single-media system. Vegetation shall minimum 85 percent coverage of the growth media within 24 months from installation.
- 3.2.1.3. Systems shall be modular and non-compartmentalizing.
- 3.2.1.4. Plantings shall be Sedum mix, reviewed and approved by Owner.
- 3.2.1.5. Secure access shall be provided from a corridor, mechanical space, or other public space.
 - 3.2.1.5.1. Access through office spaces, classrooms, labs, or other non-public spaces is prohibited.
 - 3.2.1.5.2. Access shall be sized to accommodate a two-wheeled cart for maintenance activities.

3.2.2. Metal Roofing-Structural Standing Seam (SSR)

- 3.2.2.1. Structural metal roofing shall meet UL 90 uplift rating.

3.2.2.2. Minimum design slope 1 inch per foot.

3.2.3. Slate:

3.2.3.1. Slate material shall be ASTM C406, Type-S1, with ninety (90) to one hundred (110) year performance-life.

3.2.3.2. Use of artificial slate requires Owner approval.

3.2.3.3. Minimum design slope 5 inches per foot. Slopes down to 3 inches per foot are acceptable with adhered polyethylene reinforced bitumen sheet underlayment.

3.2.4. Asphalt Shingles:

3.2.4.1. Asphalt shingles shall be fiberglass seal-tab type with minimum twenty-five (25) year manufacturer's warranty.

3.2.4.2. Minimum roof slope shall be 4 inches per foot with one (1) layer of 30 pound asphalt saturated felt underlayment. Slopes down to 3 inches per foot are acceptable with two (2) layers of underlayment.

3.3. Roofing Components:

3.3.1. Membrane and Insulation Assemblies:

3.3.1.1. Refer to Section IV for information.

3.3.2. Roof Deck

3.3.2.1. Systems shall be designed by a registered Structural Engineer.

3.3.2.2. Design Professional shall determine expected wind uplift conditions and determine suitability of the recommended system.

3.3.2.3. Roof deck securement shall be per FM Global Property Loss Prevention Data Sheet 1-29.

3.3.2.4. Slope deck to drains whenever possible. For new construction, positive slope for drainage shall not be tapered insulation except at crickets and around equipment pads.

3.3.2.5. Gypsum, wood or wood fiber cement decks shall not be used.

3.3.3. Vapor Retarders: Design Professional shall determine the need for a vapor retarder. Provide calculations to Owner for record.

3.4. Accessories:

3.4.1. Refer to Section IV for information.

4. DOORS AND WINDOWS

4.1. Doors:

- 4.1.1. Design Professional shall review condition of existing doors and hardware and shall advise the Owner of necessary or recommended replacements or upgrades.
- 4.1.2. Minimum door size shall be 3 feet 0 inches in width and 7 feet 0 inches in height. Door heights shall not exceed 8 feet 0 inches.
- 4.1.3. Doors shall have an intermediate rail at the centerline of exit device.
- 4.1.4. Glass doors shall have stiles and rails
- 4.1.5. Doorframes installed in existing structures shall match the color of existing door frames.
- 4.1.6. Restroom door interior shall have waterproof finish.
- 4.1.7. All exterior doors shall have an exterior door handle.

4.2. Hardware:

- 4.2.1. Refer to LOCKSET TYPES BY BUILDING DETAILS in Appendices
- 4.2.2. All door hardware shall be heavy-duty, institutional grade.
- 4.2.3. General Assignment Classrooms shall have electronic access control.
- 4.2.4. Non-General Assignment Classrooms shall have double cylinder classroom security (intruder function) locksets.
- 4.2.5. ITS telecommunication rooms shall have electronic locks, door closers, and access control.
- 4.2.6. Hardware specifications shall be provided by a Door & Hardware Institute Certified Architectural Hardware Consultant.
- 4.2.7. Electrified hardware that is to integrate with the Owner's AMAG access control system shall be 24 volt. Electrified hardware that is to integrate with the Owner's Millennium access control system shall be 12 volt. Refer to the Electronic Access Control and Security (AMAG) section for more information.
- 4.2.8. Hinges:
 - 4.2.8.1. Hinges shall be of full mortise-type with concealed bearings. Exterior hinges shall be stainless steel.
 - 4.2.8.2. Use non-removable pins on all out-swing doors which are to be secure.
- 4.2.9. Door Closers:
 - 4.2.9.1. Floor and concealed top jamb-mounted closers are not acceptable.
 - 4.2.9.2. Cushion stops shall not be used.
 - 4.2.9.3. Delayed action may be used in animal care facilities only.
 - 4.2.9.4. Door closers shall be installed on all custodial, maintenance, and telecommunication rooms.

4.2.10. Power Operators:

4.2.10.1. Power operators shall be hard-wired, push plate operated only. Radio frequency types shall not be used.

4.2.10.2. Push-and-go function shall not be activated.

4.2.11. Protection Plates: Protection plates shall be used on all doors with door closers.

4.3. Windows:

4.3.1. Replacement windows shall be aluminum. In restoration projects, wood windows may be allowed as approved by the Owner.

4.3.2. Aluminum windows shall have thermal break construction and shall comply with American Architectural Metal Association (AAMA) standards. Framing shall be thermally broken from any interior construction.

4.3.3. Windows installed in climate-controlled buildings shall be non-operable to maintain a specific air balance and provide security.

4.3.4. Operable windows shall be capable of being cleaned from the interior of the building and be supplied with a positive locking device. Screens shall not be supplied with the windows.

4.3.5. Window frames installed in existing structures shall match the color of existing window frames.

4.3.6. Window systems requiring desiccants shall not be used.

4.4. Glass and Glazing:

4.4.1. All new construction and major renovations shall use low-E glazing.

4.4.2. Glazing on window replacement projects shall be evaluated on a life-cycle cost basis to determine viability of the low-E glazing. Evaluation shall include minimum glass performance values.

4.4.3. Exterior glass systems shall be a minimum of insulated, double-pane glass with aluminum thermal break frame construction. Polyamide thermal break is preferred over polyurethane poured and debridged type thermal breaks. Steel framing shall not be exposed to the exterior except where required by code.

4.4.4. Maintenance and replacement of broken glazing shall be considered during design. Replacement from the interior of the building is preferred. Other replacement methods require Owner approval.

4.4.5. Exterior windows and exterior glazed doors shall have ¼ inch double glazing, certified by the Insulating Glass Certification Council (IGCC).

4.5. Joint Sealants:

4.5.1. Refer to Section IV for information.

5. FINISHES

5.1. Wall Systems:

5.1.1. Follow the USG gypsum board construction manual guidelines.

5.1.2. Wall Finishes:

5.1.2.1. Finish selection shall be based on ease of cleaning and serviceability.

5.1.2.2. Wet or wash down areas (cage and cart wash areas, kitchens, etc.) shall use concrete masonry units with an FM Global approved plastic interior finish.

5.1.2.3. Public stairways and corridors shall have durable wall finishes.

5.1.2.4. Mechanical rooms shall have masonry or concrete walls.

5.1.2.5. Restrooms shall have ceramic tile wainscot minimum of 54 inches. Wet walls (sinks, urinals, water closets, etc.) shall have ceramic tile from floor-to-ceiling.

5.1.2.6. Lactation Rooms shall have painted walls.

5.1.2.7. Wallpaper is not allowable.

5.1.2.8. Chair rails shall be provided in conference rooms, classrooms or similar multi-use spaces.

5.1.2.9. Corner protectors shall be installed on drywall corners in public circulation areas. Minimum height shall be 48 inches.

5.2. Ceiling Systems:

5.2.1. List appearance as criteria requirement when including “approved equal” to allow for coordination with maintenance stock.

5.2.2. Specialty ceiling tiles/systems require Owner approval. Ceiling tiles/systems shall be removable without requiring the use of specialty tools.

5.2.3. Sound attenuation shall be used at partitions and above ceilings. Review criteria for acoustical separation with Owner.

5.2.4. Drywall ceilings shall be limited to special public areas, soffits, and consistently wet areas (cage and cart wash areas, kitchens, bio-safety Level 3 or larger facilities). Drywall ceilings shall not be used in public restrooms.

5.2.5. Ceiling systems shall use noncombustible materials.

5.3. Paint Finishes:

5.3.1. Paint shall be manufacturer’s premium product. Specify the most sustainable paints and coatings available for the particular application.

5.4. Floor Finishes:

5.4.1. Entry mats are required at all main entrances.

5.4.1.1. Entries shall have removable, roll-up “Entrap” matting installed into a mat well. Mat wells shall not have drains.

- 5.4.1.2. Laydown mats shall be minimum 12 feet long to handle foot traffic, but shall not exceed manufacturer maximum size recommendation for ease of removal and cleaning.
- 5.4.2. Hard, durable, slip resistant surfaces requiring minimum maintenance shall be used in the following areas:
 - 5.4.2.1. Entry level corridors
 - 5.4.2.2. Food preparation and service spaces
 - 5.4.2.3. Laboratories
 - 5.4.2.4. Lactation rooms
 - 5.4.2.5. Lobbies and public spaces
 - 5.4.2.6. Restrooms
 - 5.4.2.7. Stairwells
 - 5.4.2.8. Storage rooms
- 5.4.3. Carpet tiles may be used in the following areas:
 - 5.4.3.1. Auxiliary corridors
 - 5.4.3.2. Classrooms, Auditoriums, and Lecture Halls
 - 5.4.3.3. Computer labs
 - 5.4.3.4. Conference rooms
 - 5.4.3.5. Offices
- 5.4.4. Sealed concrete shall be used in the following areas:
 - 5.4.4.1. Custodial Spaces
 - 5.4.4.2. Mechanical rooms
- 5.4.5. Ceramic tile may be used in the following rooms:
 - 5.4.5.1. Lactation rooms
 - 5.4.5.2. Restrooms
- 5.4.6. Hard surface flooring such as vinyl tile (premium quality products only), sheet vinyl, rubber flooring, or linoleum may be used in the following rooms:
 - 5.4.6.1. Classrooms
 - 5.4.6.2. Lactation rooms

5.4.6.3. Telecommunication Rooms

5.4.7. Non-slip quarry tile may be used in the following rooms:

5.4.7.1. Food preparation and service areas

5.4.7.2. Restrooms

5.4.8. Epoxy coating may be used in the following rooms:

5.4.8.1. Food preparation and service areas

5.4.8.2. Laboratories

5.4.9. Mechanical rooms located above another space shall have epoxy coating with all corners, edges, cracks, etc. caulked to prevent leakage to spaces.

5.4.10. Stairwells shall have applied nosing one (1) piece full width of tread.

5.4.11. Flooring materials other than listed above require written approval from Owner.

6. FURNISHINGS

6.1. Window Treatments:

6.1.1. Window treatment shall match building standard.

6.1.2. Roller shades are preferred.

6.1.3. Shade opacity shall be reviewed with Owner.

7. SIGNAGE

7.1. General

7.1.1. Signage shall adhere to current ADA Standards for Accessible Design.

7.1.1.1. Copy shall provide appropriate contrast with background as identified by the ADA guidelines.

7.1.1.2. Braille room number shall be located directly below the tactile room number.

7.1.1.3. Braille text shall be located directly below the tactile room number.

7.1.1.4. Mounting locations shall be as identified by the ADA guidelines.

7.1.1.5. Digital displays outside rooms shall include an ADA compliant component.

7.1.1.6. Provide direction to accessible seating within auditoriums and tiered classrooms.

7.1.1.7. Rooms or spaces with an induction loop assistive listening system shall be identified with the universal symbol for hearing assistance accompanied by explanatory text and a "T," signifying an available telcoil-compatible system.

- 7.1.1.8. Based on agreements with the Fire Protection Authorities, red copy shall only be used as identified below.
- 7.1.2. Signage shall follow the International Fire Code (IFC).
 - 7.1.2.1. Rooms with one (1) or more breaker panels shall be identified as "Electrical Room."
 - 7.1.2.2. Access door to building generator shall be identified as "Generator."
 - 7.1.2.3. Door openings onto a roof shall have a sign reading "Roof Access," including within penthouses.
 - 7.1.2.4. Rooms that have a fire pump, main sprinkler valve, or fire command center shall identified as "Fire Equipment." Copy shall be red.
 - 7.1.2.5. Elevator machine rooms shall be identified as "Elevator Equipment."
 - 7.1.2.6. Mechanical rooms shall be identified as "Mechanical."
 - 7.1.2.7. Custodial spaces shall be identified as "Custodial."
 - 7.1.2.8. Per variances from Iowa City Fire Department, dated February 24, 1993, and Coralville Fire Department, dated March 31, 2009, NFPA 704 diamond signs need not be displayed. For municipalities other than Iowa City and Coralville, verify requirements with Owner.
 - 7.1.2.9. NFPA 101 inside stairwell signs shall be located in stairwells of three (3) or more landings. Exit level signage shall indicate the level or floor number and "exit this level." This copy shall be red.
 - 7.1.2.10. "In Case of Fire Use Stairs, Do Not Use Elevator" signs shall be located at elevators without message applied to call button panel.
- 7.1.3. Signage design, material, finish, size, and font are building specific and require Owner approval.
- 7.1.4. Signage detail drawings shall be submitted for review no later than 50 percent Construction Documents.
- 7.1.5. Signs shall be designed to be updateable while maintaining vandal and tamper resistance.
- 7.1.6. Every room shall be identified. The minimum signage required shall be a sign type room number.
- 7.1.7. Interior decorative or super graphic displays shall not be visible from the exterior of the building.
- 7.1.8. Departmental policies may require additional signage.
- 7.1.9. Design Professional shall provide a sign schedule and location plan.
- 7.1.10. Specifications for printed insert sign types shall include the printed inserts, the electronic template for updating the inserts, and the insert material.
- 7.1.11. Signs referencing public venues include the following rooms:
 - 7.1.11.1. Restrooms, including accessible, single user, family, and other restrooms

7.1.11.2. Lactation rooms

7.1.11.3. Classrooms

7.1.11.4. Vending rooms

7.1.11.5. Cafeterias

7.2. Interior Signage:

7.2.1. Refer to Interior Signage Details in Appendices for examples of sign types.

7.2.2. Building Directory

7.2.2.1. Directory shall be designed to hold an in-house, updatable, single changeable insert or modular inserts.

7.2.2.2. Directory to be immediately viewable upon entering the building from the primary entrance and in major circulation areas.

7.2.2.3. Directory shall permanently identify level number and may include building name. Copy shall be permanently printed.

7.2.2.4. Directory shall be used to display destination addresses. Content shall include public venue, department names and locations within the building. Directory may include administrative offices.

7.2.2.5. Destinations shall be listed alphabetically. Provide minimum capacity of 10 percent greater than the current list of destinations.

7.2.2.6. Locations shall be keyed to floor levels, room numbers or map artwork.

7.2.2.7. Map artwork shall be plan view or stacked perspective.

7.2.2.7.1. Artwork shall schematically replicate the footprint of each level.

7.2.2.7.2. Features to be shown shall be stairs, elevators, restrooms, accessible restrooms, single user restrooms, lactation rooms, classrooms, vending / cafeterias, building entrances, and department identification.

7.2.2.7.3. Room number ranges shall be identified.

7.2.2.7.4. A uniquely shaped and/or colored "YOU ARE HERE" symbol shall be placed in the plan location of the viewer.

7.2.2.7.5. Map artwork shall be oriented so that top of map is the direction the viewer is facing.

7.2.2.7.6. Map shall be sized to convey information clearly.

7.2.3. Elevator Directory:

- 7.2.3.1. Directory shall be designed to hold an in-house, updatable, single changeable insert or modular inserts.
- 7.2.3.2. Directory shall permanently identify level number. Building name may be included as directed by the Owner.
- 7.2.3.3. Directory shall be used as display of destination addresses accessible by the elevator. Content shall include building name, public venue, department names, administrative offices, and floor level locations.
- 7.2.3.4. Destinations shall be listed alphabetically. Provide capacity of 10 percent greater than the current list of destinations.
- 7.2.3.5. Sign shall be located adjacent to the entrance into an elevator cab. One (1) directory can serve two (2) adjacent elevator cabs.

7.2.4. Elevator Cab Directory:

- 7.2.4.1. Directory shall be designed to hold an in-house, updatable, single changeable insert or modular inserts.
- 7.2.4.2. Elevator Cab Directory shall be used in addition to Elevator Directory.
- 7.2.4.3. Directory shall be used as display of destination addresses accessible by the elevator. Provide capacity of 10 percent greater than the current list of destinations.

7.2.5. Overhead Directional:

- 7.2.5.1. Use of overhead directional signs shall be limited.
- 7.2.5.2. Overhead directional signs shall be used to direct to primary destinations or range of room numbers.
- 7.2.5.3. Copy on overhead directional signs shall be at a minimum of 2 inch height and comply with ADA requirements for visual character height. Copy shall be self-adhesive vinyl, silkscreened or applied cut-out lettering.

7.2.6. Wall-mount Directional:

- 7.2.6.1. Wall-mount directional shall be designed to hold an in-house, updatable, single changeable insert or modular inserts.
- 7.2.6.2. Wall-mount directional shall permanently identify level number. Building name may be included as directed by the Owner.
- 7.2.6.3. Copy shall be listed according to direction with left destinations listed first, upper destinations second and right destinations third. Destinations in like direction shall be alphabetized.
- 7.2.6.4. Signs shall be located at decision points.
- 7.2.6.5. Wall-mount directional may include map artwork.

7.2.6.6. Map artwork:

7.2.6.6.1. Artwork shall be plan view or stacked perspective.

7.2.6.6.2. Artwork shall schematically replicate the footprint of each level.

7.2.6.6.3. Features shall include stairs, elevators, restrooms, accessible restrooms, single user restrooms, lactation rooms, classrooms, vending / cafeterias, building entrances.

7.2.6.6.4. Room number ranges shall be identified.

7.2.6.6.5. A uniquely shaped and/or colored symbol labeled "You Are Here" shall be placed in the plan location of the viewer.

7.2.6.6.6. Map art shall be oriented with top of map the direction the viewer is facing.

7.2.7. Overhead Identification:

7.2.7.1. Use of overhead identification signs shall be limited.

7.2.7.2. Overhead identification signs shall be used to identify primary destinations.

7.2.7.3. Copy shall comply with ADA requirements for visual character height.

7.2.7.4. Copy shall be self-adhesive vinyl, silkscreened, or applied cut-out lettering.

7.2.7.5. Sign shall be used in conjunction with wall-mounted department identification.

7.2.8. Projecting Flag Identification:

7.2.8.1. Projecting flag identification shall be used for public areas visually hidden from direct view.

7.2.8.2. Flag shall be an acrylic blade fastened to an aluminum armature.

7.2.8.3. Copy shall comply with ADA requirements for visual character height.

7.2.8.4. Graphics shall be limited to symbol glyphs for public venues.

7.2.8.5. Glyphs shall be silkscreened or self-adhesive vinyl.

7.2.9. Department Directory:

7.2.9.1. Directory shall be designed to hold an in-house, updatable, single changeable insert or modular inserts. Changeable inserts shall be 8 ½ by 11, 8 ½ by 14, 11 by 17 or as approved by Owner.

7.2.9.2. Directory shall be used as display of destination addresses within the department. Content may include program names, faculty / staff identification and room numbers.

7.2.9.3. Destinations shall be listed alphabetically. Provide capacity of 10 percent greater than the current list of destinations.

7.2.10. Department Identification Plaque:

7.2.10.1. Department identification plaque shall be wall-mounted.

7.2.10.2. Plaque shall be scaled larger than room identification signage to provide more significance.

7.2.10.3. Plaque shall use uppercase sans-serif ADA spec tactile copy and Grade II Braille for the permanent identification component of the message. Permanent message shall be department name and/or room number.

7.2.10.4. Supporting copy shall be silk-screened.

7.2.10.5. Sign face shall be matte.

7.2.10.6. Sign location shall not be viewable from the exterior of the building.

7.2.11. Department Identification Vinyl Lettering:

7.2.11.1. Vinyl lettering shall be scaled larger than room identification signage to provide more significance.

7.2.11.2. Vinyl lettering identifying a permanent space shall include ADA compliant identification.

7.2.11.3. Vinyl lettering shall not be viewable from the exterior of the building.

7.2.12. Room Number:

7.2.12.1. Room number shall be wall-mounted.

7.2.12.2. Rooms identified by number only include general storage rooms and rooms whose purposes are to be discreet.

7.2.12.3. Sign shall use uppercase sans-serif ADA spec tactile number and Grade II Braille.

7.2.12.4. Sign face shall be matte.

7.2.13. Room Identification:

7.2.13.1. Room Identification shall be wall-mounted.

7.2.13.2. Rooms whose purpose or room information is not likely to change frequently shall be identified by room text and room number.

7.2.13.3. Lactation room sign shall identify the room by the room number, the room name, and shall include an in-house updatable insert.

7.2.13.4. Sign shall use uppercase sans-serif ADA spec tactile number and Grade II Braille for the permanent component of the message. Permanent message shall be room text and room number.

7.2.13.5. Sign face shall be matte.

7.2.14. Conference Room Identification:

7.2.14.1. Conference Room identification shall be wall-mounted.

7.2.14.2. Sign shall include "Conference" and room number.

7.2.14.3. Signs shall incorporate gripper bar paper holder. Gripper bars shall be constructed of extruded aluminum.

7.2.14.4. Sign shall use uppercase sans-serif ADA spec tactile number and Grade II Braille for the permanent component of the message. Permanent message shall be room text and room number.

7.2.14.5. Sign face shall be matte.

7.2.15. Office and Multi-purpose Room Identification:

7.2.15.1. Office and multi-purpose room Identification shall be wall-mounted.

7.2.15.2. Sign shall identify rooms by room number and in-house, updatable insert.

7.2.15.3. Typical rooms include offices and rooms whose purpose or room information may change frequently.

7.2.15.4. Sign shall use uppercase sans-serif ADA spec tactile number and Grade II Braille for the room number.

7.2.15.5. In-house, updateable insert shall be inserted into a slot between a clear window on the face and a backer panel. Face shall have thumb notch or similar means to enable updating.

7.2.15.6. Signs shall incorporate gripper bar paper holder. Gripper bars shall be constructed of extruded aluminum.

7.2.15.7. Sign face shall be matte.

7.2.16. Open Office Work Station Identification:

7.2.16.1. Each open office work station shall receive an identification sign

7.2.16.2. Open office work station signage shall not include room number.

7.2.16.3. Sign shall identify occupant or use by in-house, updateable insert.

7.2.16.4. Confirm mounting detail with Owner.

7.2.16.5. In-house, updateable insert shall be placed into a slot between a clear window on the face and a backer panel. Face shall have thumb notch or similar means for enabling updating.

7.2.16.6. Sign face shall be matte.

7.2.17. Symbol Identification:

7.2.17.1. Symbol identification shall be wall-mounted.

7.2.17.2. Information shall be organized with room number on top, symbol glyph on 6 inch area in the middle and supporting text on bottom.

7.2.17.3. Typical rooms include single user, men's, and women's restrooms, and stairwells.

7.2.17.4. Sign shall use uppercase sans-serif ADA spec tactile characters and Grade II Braille for the room number and room text.

7.2.17.5. Sign face shall be matte.

7.2.18. Large Symbol Identification:

7.2.18.1. Large symbol identification shall be wall-mounted.

7.2.18.2. Information shall be organized with room number on top, symbol glyph on 6 inch area in the middle and multiple lines of supporting text on bottom.

7.2.18.3. Typical rooms include family restrooms and locker rooms.

7.2.18.4. Sign shall use uppercase sans-serif ADA spec tactile characters and Grade II Braille for the room number and room text.

7.2.18.5. Sign face shall be matte.

7.2.19. Entrance Number Plaque:

7.2.19.1. An entrance number plaque shall be placed at each exterior door, including entrances from rooftop and balconies.

7.2.19.2. Plaque shall be an exterior grade 1/8 inch 2-ply material with contrasting color layers, Rowmark Ultra-Matte material or approved equal.

7.2.19.3. Numbers shall be assigned by Owner. "ENT" shall precede all numbers. Sign shall use uppercase sans-serif.

7.2.19.4. Plaques shall be sized to fit on doorframe, centered over door on outside of facility. Typical size plaque is 1-1/2 inch by 6 inch with 1 inch copy.

7.2.20. Loading Dock Entrance Number Plaque:

7.2.20.1. Loading Dock entrance number plaque shall be placed at each exterior dock. Plaque shall be a 1/8 inch painted aluminum panel with highly contrasting, self-adhesive, vinyl copy.

7.2.20.2. Numbers shall be assigned by Owner. "ENT" shall precede all numbers. Sign shall use uppercase sans-serif.

7.2.20.3. Typical plaque size is 12 inch by 12 inch with 4 inch copy or sized in accordance with specific building criteria.

7.2.20.4. Sign shall be placed adjacent to door and viewable from street.

7.2.21. Code Specified Information:

7.2.21.1. Code Specified Information shall be wall-mounted.

7.2.21.2. Refer to applicable code for text, symbols, size and sign layout.

7.2.21.3. Tobacco-free signage shall be placed at all building entrances.

7.2.21.4. Sign face shall be matte.

7.2.22. Architectural Lettering:

7.2.22.1. Architectural lettering may be used to identify the following:

7.2.22.1.1. Building

7.2.22.1.2. Department

7.2.22.1.3. Special venues

7.2.22.1.4. Points of sale

7.2.22.2. Letters shall be individually cut out characters from acrylic sheet, solid surface material, metal or cast from metal.

7.2.22.3. Architectural Lettering identifying a permanent space shall also include ADA compliant identification.

7.2.23. Donor Signage:

7.2.23.1. Donor recognition signage shall be designed as part of the interior signage.

7.2.23.1.1. Finished product shall complement and coordinate with building design.

7.2.23.1.2. Coordinate with The University of Iowa Foundation to design the signage types for the various donation levels.

7.2.23.1.3. Donor Signage types:

7.2.23.1.3.1. Donor Wall

7.2.23.1.3.2. Room

7.2.23.1.3.3. Departments

7.2.23.1.3.4. Building

7.2.23.1.4. Signs shall be designed to allow for the addition of future donors.

7.2.23.1.5. Signs shall be designed to be updated with little or no modification to the existing signage.

7.2.23.2. Custom Signage identifying a permanent space shall also include ADA compliant identification.

7.2.23.3. Custom Signage may be illuminated.

7.2.23.3.1. Illuminated signs shall be UL listed.

7.2.23.3.2. Lamp types shall be reviewed by Owner.

7.2.23.3.3. Signs shall be designed to prevent excessive heat build-up.

7.2.23.3.4. Electrical service shall be concealed.

7.3. Exterior Signage:

7.3.1. Refer to Exterior Signage Details in Appendices for examples of sign types.

7.3.2. New buildings shall have at least one (1) major building identification sign located within five (5) to twenty (20) feet of the building's main entrance.

7.3.3. Secondary building entrances may be signed with a smaller building identification sign if the entrance is open to general public access and has public exposure.

7.3.4. Signs shall be perpendicular to building face.

7.3.5. Tallest point of sign be nearest to the building face.

7.3.6. Final locations shall be reviewed and approved by the Owner.

7.3.7. Signs or lettering shall not be applied to an exterior building surface.

7.3.8. Design Professional shall identify signage locations on site drawings.

8. SPECIALTIES

8.1. Visual Display and Bulletin Boards:

8.1.1. Bulletin boards in public areas shall be enclosed.

8.2. Projection Screens:

8.2.1. Screen size, surface and placement shall be specified or approved by ITS EI -Physical Infrastructure.

8.2.2. Provide motorized tension projection screen when screen size is larger than 50 inches by 80 inches.

8.3. Restrooms and Restroom Accessories:

8.3.1. Restrooms:

8.3.1.1. Provide floor drains and centrally located hose bibbs. Locate hose bibb adjacent to lavatory such that it is reachable without reaching under lavatory counter, 18 inches above finished floor.

8.3.1.2. Single User Restrooms:

8.3.1.2.1. New facilities and additions shall include an accessible single user restroom.

8.3.1.2.2. Remodel projects impacting, or adjacent to, existing restroom facilities shall include an accessible single user restroom.

8.3.1.2.3. Accessible single user restrooms shall not be used as a substitute for accessible multi-user restrooms.

8.3.1.2.4. Restroom shall be located on the main floor of the facility within the main circulation path.

8.3.1.2.5. Restroom shall contain one (1) baby changing station.

8.3.1.3. Restroom entrance shall not have open sight-lines.

8.3.2. Toilet Partitions:

8.3.2.1. Partitions shall be compact laminate material, of light color tone. Fire rating must meet code requirements.

8.3.2.2. Partitions shall be wall or ceiling mounted to allow for Owner cleaning methods. Overhead braces shall have anti-grip design.

8.3.2.3. Ceiling-supported partitions shall have a flip-over latch for closure.

8.3.3. Restroom Accessories:

8.3.3.1. Locate electric hand dryers or paper towel dispensers to minimize water in walking path.

8.3.3.2. Paper towel dispensers require Owner approval.

8.3.3.3. Lavatories shall be installed in countertops and not as separate wall-hung fixtures.

8.3.3.4. Mirrors shall be the full width of the counter, without a shelf, not to exceed 7 ft above finished floor

8.3.3.5. A narrow shelf shall be located near the entrance of restroom. Coat hooks shall be included either below or near the shelf.

8.3.3.6. Provide coat hook in each restroom stall. Locate hooks on wall or partition to prevent injuries to Owner staff when cleaning or maintaining the space.

8.3.3.7. Ceramic toilet accessories shall not be used.

8.3.3.8. Built-in or metal waste receptacles shall not be used

8.3.3.9. Sanitary disposal containers shall be wall-mounted.

8.3.3.10. Sanitary napkin and tampon dispensers shall not be installed in restrooms.

8.3.3.11. All accessible toilet stalls shall have the toilet paper dispensers installed above the side wall grab bar. The outlet of the toilet paper dispenser shall be 4 feet 0 inches above finished floor and the top of the gripping surface of the grab bar shall be minimum 2 feet 9 inches and maximum 3 feet 0 inches above finished floor.

8.4. Lactation Rooms:

- 8.4.1. Minimum room size shall be 6 feet by 9 feet.
- 8.4.2. Room shall be accessed directly from the women's restroom where possible.
- 8.4.3. Door shall be keyed with storage room lock with deadbolt and occupancy indicator.
- 8.4.4. Counter shall be 6 feet by 2 feet, no lower storage, with a small sink and gooseneck faucet located at one (1) end of the counter.
- 8.4.5. One (1) electrical outlet shall be installed for pump. Locate outlet on the side wall above the counter, at opposite end of the counter from the sink.
- 8.4.6. Provide mirror, 4 foot high by 3 foot wide minimum, mounted above the non-sink side of the counter.
- 8.4.7. Provide 4 foot by 4 foot bulletin board.
- 8.4.8. Provide one (1) upholstered, non-caster chair with arms.
- 8.4.9. Provide wall-mounted clock.

8.5. Shower and Locker Rooms:

- 8.5.1. Accessible showers shall have a floor drain, located outside of the shower.

8.6. Recycle and Landfill (Trash) Receptacles:

- 8.6.1. Design Professional shall identify and account for the space for the collection, transport, and disposal of the expected waste streams from each space.
 - 8.6.1.1. Waste streams include recycling, landfill, composting, biohazardous materials (red bins), batteries, electronics, and other specialized materials.
 - 8.6.1.2. Collection points shall be identified on the floor plans.
- 8.6.2. Recycle and landfill containers shall exist in pairs.
 - 8.6.2.1. Restrooms shall contain landfill container(s) only. Use Small or Slim Jim container based on anticipated volume of waste.
 - 8.6.2.2. Printing and copy equipment stations shall have recycling container(s) and a Tiny Trash container for waste such as staples.
 - 8.6.2.3. Containers:
 - 8.6.2.3.1. Containers, other than listed below, require written approval from Owner.
 - 8.6.2.3.2. Products
 - 8.6.2.3.2.1. Tiny Trash Container: Busch Systems BC1500 (container), BC1500L (lid)

- 8.6.2.3.2.2. Small Containers: 7 gallon Rubbermaid 2956-73
- 8.6.2.3.2.3. Slim Jim Container: 23 gallon Rubbermaid 3540-75
- 8.6.2.3.2.4. 32 gallon: Rubbermaid 2632-73 (container), 2640 (casters)
- 8.6.2.3.2.5. 40 gallon: Rubbermaid 3536-73 (container), 3530 (casters)
- 8.6.2.3.2.6. 64 gallon: Toter ACC64

8.6.2.4. Color:

- 8.6.2.4.1. Recycle containers and/or signage shall be blue.
- 8.6.2.4.2. Compost containers and/or signage shall be green.
- 8.6.2.4.3. Landfill containers shall not be blue, green, or red.

8.6.2.5. Signage:

- 8.6.2.5.1. Containers shall have signage indicating "Recycle," "Landfill," or "Compost" on the container or enclosure.
- 8.6.2.5.2. Signage shall indicate the waste stream details as indicated below and be located on or above the container or enclosure.
 - 8.6.2.5.2.1. "Recycle: Plastic containers, paper, cans, cardboard"
 - 8.6.2.5.2.2. "Landfill: Plastic bags, wrappers, glass, Styrofoam"
 - 8.6.2.5.2.3. "Compost: Food scraps, coffee grounds/filters, paper towels/napkins"
- 8.6.2.5.3. Tiny Trash containers and blue Small containers with the recycle logo do not require signage

8.6.2.6. Openings:

- 8.6.2.6.1. Recycle container openings shall be Saturn-top or lidded.
 - 8.6.2.6.1.1. Diameter of opening: 5 to 6 inches
 - 8.6.2.6.1.2. Width of ring: 2 1/2 to 3 inches
 - 8.6.2.6.1.3. Length of opening: 10 to 14 inches
- 8.6.2.6.2. Compost container openings shall be rectangular or lidded.
 - 8.6.2.6.2.1. Width of opening: 5 to 8 inches
 - 8.6.2.6.2.2. Length of opening: 10 to 14 inches
- 8.6.2.6.3. Openings shall be ADA accessible.

8.6.3. The following shall apply where containers are installed in enclosure, including cabinetry or casework:

8.6.3.1. Containers shall be capable of being rolled into cabinetry. Containers shall not be lifted.

8.6.3.2. Enclosures shall accommodate standard, 40 gallon containers as listed above.

8.6.3.3. Enclosure opening shall be ADA accessible.

8.6.3.4. Signage shall be visible to public.

8.6.4. Locations:

8.6.4.1. Containers at an individual office or workstation shall consist of a Small recycle container and a Tiny Trash container. Office suites or groups of workstations may have a common set of larger containers.

8.6.4.2. Public gathering spaces, such as corridors, concourses and atria, shall be primary collection points. Corridors serving classrooms shall have containers.

8.6.4.3. Staff breakrooms and lounges shall be primary collection points.

8.6.4.4. Classrooms shall not have containers.

8.6.4.5. Conference and meeting rooms shall have containers.

8.6.4.6. Wet lab spaces shall have containers.

8.6.4.7. Mailrooms shall have containers.

8.7. Vending Spaces:

8.7.1. Vending Machines available for use on Campus by Coca-Cola (The University of Iowa approved beverage supplier). Design Professional shall account for vending space needs and utility requirements. Review with the Owner.

8.7.1.1. Royal 660

8.7.1.1.1. All can machines, non-glass front bottle machine.

8.7.1.1.2. Dimensions shall be 72 inches high by 37 inches wide by 34 inches deep.

8.7.1.1.3. Power shall be 115 volts, 12 amps.

8.7.1.2. Royal 804

8.7.1.2.1. Taller version of Royal 660.

8.7.1.2.2. Dimensions shall be 80 inches high by 37 inches wide by 34 inches deep.

8.7.1.2.3. Power shall be 115 volts, 12 amps.

8.7.1.3. RVV500

8.7.1.3.1. Smaller glass front, may hold cans or bottles.

8.7.1.3.2. Dimensions shall be 72 inches high by 37 inches wide by 35 ½ inches deep.

8.7.1.3.3. Power shall be 115 volts, 12 amps.

8.7.1.4. D5000

8.7.1.4.1. Large glass front.

8.7.1.4.2. Dimensions shall be 72 inches high by 52 inches wide by 35 inches deep.

8.7.1.4.3. Power shall be 115 volts, 12 amps.

8.7.1.5. Vendo Vue

8.7.1.5.1. Mid-size glass front.

8.7.1.5.2. Dimensions shall be 72 inches high by 41 ½ inches wide by 35 inches deep.

8.7.1.5.3. Power shall be 115 volts, 10 amps.

8.8. Custodial Spaces:

8.8.1. Custodial Work Control Center: The main gathering place for custodial and maintenance operations activities.

8.8.1.1. Locate on the ground floor near the Supplies Storage and Delivery room.

8.8.1.2. Room shall be 20 feet by 20 feet for a custodial group of four (4) and shall increase in length by 2 feet for each additional person above four (4). Minimum room width of 20 feet for any size group.

8.8.1.3. Provide the following:

8.8.1.3.1. Fire rated ceilings.

8.8.1.3.2. Lighting levels at 20 foot candles.

8.8.1.3.3. Minimum of four (4) duplex outlets above countertop and two (2) duplex outlets near the floor on each open wall, with one (1) outlet on each wall. All receptacles to be GFCI.

8.8.1.3.4. Two (2) telecom-data telephones.

8.8.1.3.5. 3 foot 0 inch door. Door shall open outwards.

8.8.1.3.6. Built-in 5 foot 0 inch kitchen unit with double sink, water supply line to ice machine in refrigerator, and storage cupboard above the sink.

8.8.2. Supply Storage and Delivery Room (the main storage room for cleaning supplies):

- 8.8.2.1. Room shall be a minimum of 10 feet by 14 feet for a four (4) person custodial group, and shall increase in length by 2 feet for each additional person above four (4).
- 8.8.2.2. Provide the following:
 - 8.8.2.2.1. Three (3) 1 foot 6 inch wall shelves on adjustable brackets and standards. One-half (1/2) of the shelving in this room shall be enclosed with doors and locks.
 - 8.8.2.2.2. HVAC to maintain 60 degree F minimum.
 - 8.8.2.2.3. Lighting levels at 20 foot candles.
 - 8.8.2.2.4. Two (2) duplex electrical outlets (GFCI) on shelving wall.
 - 8.8.2.2.5. 3 foot 6 inch door. Door shall open outwards.
- 8.8.3. Equipment Storage Room: Room is used to store large equipment including vacuums, carpet extractors, carpet drying fans, ladders, etc.
 - 8.8.3.1. Room shall be a minimum 12 feet by 18 feet for up to a four (4) person custodian group, and shall increase in length by 3 feet 0 inches for additional custodians up to eight (8). Increase in length an additional 3 feet 0 inches for any group larger than eight (8) custodians.
 - 8.8.3.2. Provide the following:
 - 8.8.3.2.1. 24 inch by 36 inch by 10 inch utility slop sink, installed in the rear corner of the room with hot and cold water blended into a single hose bibb. Maintain a clear path from door to sink even when equipment is parked.
 - 8.8.3.2.2. 2 feet 0 inch Panolam white fiberglass reinforced all panel back splash around the two (2) sides of the sink.
 - 8.8.3.2.3. Floor sink with strainer basket to empty equipment, slope floor to the drain.
 - 8.8.3.2.4. Two (2) 1 foot 0 inch wide adjustable shelves, 9 feet 0 inches in length, on brackets, at the rear of the room. Bottom shelf shall be 3 feet 4 inches above finished floor.
 - 8.8.3.2.5. Plumbing to accommodate a chemical dispensing unit located near the sink, with separate cold water hose bibb.
 - 8.8.3.2.6. Emergency eye wash station. Refer to Section IV, PLUMBING SYSTEMS for additional information.
 - 8.8.3.2.7. Minimum of three (3) wall-mounted shelves 4 feet 0 inch above finished floor to support charging units for battery-powered machinery.
 - 8.8.3.2.8. Four (4) duplex outlets (GFCI), a minimum of two (2) outlets per circuit. Outlets to be located 6-inches above shelf.
 - 8.8.3.2.9. Heating and ventilation for recharging battery-powered machinery.

8.8.3.2.10. One (1) duplex electrical outlet (GFCI) for each charger unit, located 4 feet 0 inches above finished floor on wall next to the battery charger shelves.

8.8.3.2.11. Lighting levels at 20 foot candles.

8.8.3.2.12. One (1) duplex electrical outlet (GFCI) near the floor by the door.

8.8.3.2.13. Door shall be 3 foot 6 inch and shall open outwards.

8.8.3.2.14. Enamel painted concrete walls. Gypsum board walls with 18 inch high metal plating may be used with Owner approval.

8.8.3.2.15. Washer/dryer hook-up.

8.8.4. Custodial Service Room:

8.8.4.1. Minimum of one (1) Custodial Service Room per floor or one (1) closet per 20,000 square feet. Locate within 50 feet of main traffic restrooms. Access to Custodial Service Room shall be from public hallways.

8.8.4.2. Room shall be a minimum 7 feet by 9 feet.

8.8.4.3. Utility panels, gauges, meters or pipes shall not be placed in the custodial service room.

8.8.4.4. Provide the following:

8.8.4.4.1. Three (3) white painted or laminated 3/4 inch by 12 inch deep plywood shelves mounted on adjustable brackets and standards, bottom shelf 30 inches above finished floor, top shelf 60 inches above finished floor.

8.8.4.4.2. Plumbing to accommodate a chemical dispensing unit located near the sink, with separate cold water hose bibb.

8.8.4.4.3. Emergency eye wash station. Refer to Section IV, PLUMBING SYSTEMS for additional information.

8.8.4.4.4. Wall bracket to support a 6 foot 0 inch step ladder.

8.8.4.4.5. Lighting levels at 20 foot candles.

8.8.4.4.6. One (1) duplex electrical outlet (GFCI) located on shelving wall.

8.8.4.4.7. 3 foot 6 inch door. Door shall open outwards.

8.8.4.4.8. 24 inch by 36 inch by 10 inch utility slop sink, installed in the rear corner of the room with hot and cold water blended into a single hose bibb. Maintain a clear path from door to sink even when equipment is parked.

8.8.4.4.9. 2 feet 0 inch Panolam white fiberglass reinforced all panel back splash around the two (2) sides of the sink.

8.8.5. Heavy Equipment Room (houses rider scrubbers and sweepers):

- 8.8.5.1. The approach hallways shall be wide enough to maneuver the scrubbers in and out of the storage room, and a nearby egress shall be large enough to serve the installation and removal of the machinery. Access to heavy equipment room shall be from public hallways
- 8.8.5.2. Room shall be a minimum 15 feet by 15 feet.
- 8.8.5.3. Utility panels, gauges, meters or pipes shall not be placed in the custodial service room.
- 8.8.5.4. Provide the following:
 - 8.8.5.4.1. Heating and ventilation for recharging battery-powered machinery.
 - 8.8.5.4.2. One (1) 1 foot 0 inch wide adjustable shelf, mounted on the wall 3 feet 4 inches above finished floor.
 - 8.8.5.4.3. Plumbing to accommodate a chemical dispensing unit located near the sink, with separate cold water hose bibb.
 - 8.8.5.4.4. Emergency eye wash station. Refer to Section IV, PLUMBING SYSTEMS for additional information.
 - 8.8.5.4.5. 24 inch by 36 inch by 10 inch utility slop sink, installed in the rear corner of the room with hot and cold water blended into a single hose bibb. Maintain a clear path from door to sink even when equipment is parked.
 - 8.8.5.4.6. One (1) floor drain with cleanout trap and 12 inch x 12 inch removable grate. Location to be coordinated with Owner.
 - 8.8.5.4.7. 4 feet 0 inch high Panolam white fiberglass reinforced all panel back splash around the two (2) sides of the sink.
 - 8.8.5.4.8. Wall-mounted shelf 4 feet 6 inch above finished floor to support charging units for battery-powered machinery.
 - 8.8.5.4.9. Four (4) duplex outlets (GFCI), a minimum of two (2) outlets per circuit. Outlets to be located 6-inches above shelf.
 - 8.8.5.4.10. Lighting levels at 20 foot candles.
 - 8.8.5.4.11. One (1) duplex electrical outlet (GFCI) near the floor by the door.
 - 8.8.5.4.12. Enamel painted concrete walls. Gypsum board walls with 18 inch high metal plating may be used with Owner approval.
 - 8.8.5.4.13. 7 foot double door. Door shall open outwards.
- 8.8.6. Light Bulb Storage Room (main storage room for light tubes and lamps):
 - 8.8.6.1. Room size shall be reviewed with the Owner.
 - 8.8.6.2. Provide the following:
 - 8.8.6.2.1. 3 foot 6 inch door. Door shall open outwards.

8.8.6.2.2. Three (3) 1 foot 6 inch wall shelves on adjustable brackets and standards at the back of the room. The bottom shelf shall be 2 feet 6 inches above finished floor. Shelves shall be spaced about 1 foot 8 inches apart, running the full length of the longest wall.

8.8.6.2.3. One (1) duplex GFCI receptacle located near the floor by the door.

8.8.6.2.4. HVAC is required with 60 degree F winter heat minimum.

8.8.6.2.5. Lighting levels at 20 foot candles.

8.9. Maintenance Rooms:

8.9.1. Building Maintenance Work Control Center (houses building control work station, maintenance staffing, and general computer access):

8.9.1.1. Located separately from Building Maintenance Shop and Building Maintenance Material / Equipment Storage Room.

8.9.1.2. Room shall be 20 feet by 20 feet for a maintenance group of four (4) and shall increase in length by 2 feet for each additional person above four (4). Minimum room width of 20 feet for any size group.

8.9.1.3. Provide the following:

8.9.1.3.1. 3 foot 0 inch door. Door shall open outwards.

8.9.1.3.2. Fire rated ceilings

8.9.1.3.3. Lighting levels at 20 foot candles.

8.9.1.3.4. Minimum of four (4) duplex outlets above countertop and two (2) duplex outlets near the floor on each open wall, with one (1) outlet on each wall. All receptacles to be GFCI.

8.9.1.3.5. Minimum of one (1) three-phase outlet.

8.9.1.3.6. Two (2) telecom-data telephones.

8.9.2. Building Maintenance Shop (houses work benches, tools, equipment, carts, barrels and supplies):

8.9.2.1. Room shall be minimum 200 square feet.

8.9.2.2. Located adjacent to the Building Maintenance Material / Equipment Storage Room.

8.9.2.3. Provide the following:

8.9.2.3.1. 3 foot 0 inch door. Door shall open outwards.

8.9.2.3.2. Fire rated ceilings

8.9.2.3.3. Lighting levels at 20 foot candles.

8.9.2.3.4. Minimum of four (4) duplex outlets above countertop and two (2) duplex outlets near the floor on each open wall, with one (1) outlet on each wall. All receptacles to be GFCI.

8.9.2.3.5. Two (2) telecom-data telephones.

8.9.3. Building Maintenance Material / Equipment Storage Room (main storage room for building maintenance supplies and attic stock):

8.9.3.1. Room shall be minimum 200 square feet.

8.9.3.2. Provide the following:

8.9.3.2.1. 3 foot 6 inch door. Door shall open outwards.

8.9.3.2.2. Fire rated ceilings

8.9.3.2.3. Lighting levels at 20 foot candles.

8.9.3.2.4. One-half (1/2) of the shelving in this room shall be enclosed with doors and locks. Three (3) 1 foot 6 inch wall shelves on adjustable brackets and standards at the back of the room. The bottom shelf shall be 2 feet 6 inches above finished floor. Shelves shall be spaced 1 foot 8 inches apart, running the full length of the longest wall.

8.9.3.2.5. Two (2) duplex outlets on shelving wall. All receptacles shall be GFCI.

8.9.3.2.6. HVAC is required with 60 degree F winter heat minimum.

8.10. Telecommunication Rooms (TR):

8.10.1. Room shall be a minimum of 10 feet by 15 feet. Size to be determined by quantity and type of horizontal cables served from the telecommunication room as well as future cable plant expansion expectations. ITS EI - Physical Infrastructure shall be involved in determining room sizes and locations.

8.10.2. TRs shall be aligned vertically and centrally located to meet current ANSI/EIA/TIA allowable cable lengths.

8.10.3. Room shall be dedicated to ITS use only. No other systems shall pass through room, including HVAC ducts, plumbing, conduits, etc.

8.10.4. Access to telecommunication rooms shall be coordinated with ITS EI - Physical Infrastructure.

8.10.5. Room shall not have a ceiling.

8.10.6. Provide the following:

8.10.6.1. Year-round cooling with continuous air flow to maintain.

8.10.6.1.1. 72 to 80 degrees F

8.10.6.1.2. 45 to 55 percent maximum relative humidity

- 8.10.6.1.3. Positive air pressure with a minimum of one (1) complete exchange per hour.
- 8.10.6.2. Minimum 100 amp dedicated, TVSS protected power panel tied to building generator if possible. Panel size dependent on size of area and user density being served.
- 8.10.6.3. Minimum of two (2) 20 AMP outlets per data switch.
- 8.10.6.4. Minimum if one (1) convenience receptacle per wall.
- 8.10.6.5. Grounding and bonding for communication systems.
- 8.10.6.6. Equipment racks, ladder racking, and cable management.
- 8.10.6.7. $\frac{3}{4}$ inch A/C (A side out) rated plywood on all walls, mounted from 6 inches to 8 feet 6 inches above finished floor.
- 8.10.6.8. Lighting:
 - 8.10.6.8.1. Minimum lighting levels equivalent of 50 lumens measured at 3 feet above finished floor.
 - 8.10.6.8.2. Provide manual wall switches only. Automatic lighting controls shall not be installed.
 - 8.10.6.8.3. Connect a minimum of one (1) light Fixture to emergency power.
 - 8.10.6.8.4. Bottom of fixtures shall be 8 feet 6 inches above finished floor.
 - 8.10.6.8.5. Coordinate with ITS EI - Physical Infrastructure for TR/Light Fixture Layout
 - 8.10.6.8.6. Door closer and door sweep.

8.11. Classrooms - General Assignment:

8.11.1. General Approach to Classroom Design:

- 8.11.1.1. Develop rooms with good sight lines and efficient seating layout. Design shall proceed from the "inside out."
 - 8.11.1.1.1. Determine projection screen quantity, size and location.
 - 8.11.1.1.2. Determine seat size, orientation and size of the instructor area.
 - 8.11.1.1.3. Draw viewing angles from each screen and insure that all seats fit within.
 - 8.11.1.1.4. Determine location and width of access aisles.
 - 8.11.1.1.5. After these steps, determine location of walls.
- 8.11.1.2. Classrooms shall be shaped and sized to maximize seating and occupant comfort and interaction.

8.11.1.3. Design corridors and alcoves to provide informal student spaces with flexible, comfortable furniture to encourage collaboration.

8.11.2. Classroom design details may vary to accommodate the latest best practices for teaching.

8.11.3. Classroom Design Specifics:

8.11.3.1. Classroom Location:

8.11.3.1.1. Locate general assignment classrooms as close as possible to the main building entrances to limit student travel through the building. This is most important for large capacity classrooms.

8.11.3.1.2. Group classrooms together on the common floor.

8.11.3.1.3. Locate classrooms away from noise-generating equipment and activities, including mechanical systems, elevators, vending, food service, and restrooms. Where classrooms adjoin such spaces, provide acoustic separation.

8.11.3.1.4. Locate restrooms near lecture halls. Avoid common walls between restrooms and classrooms.

8.11.3.1.5. Provide corridor seating outside lecture halls and along hallways outside classrooms.

8.11.3.2. Accessibility:

8.11.3.2.1. Specialized equipment shall be included as follows:

8.11.3.2.2. Remote Real Time Captioning - Place an Ethernet connection and an electrical outlet in the front of the room for all auditoria seating 100+.

8.11.3.2.3. Lighting for Interpreter - A separate light for a sign language interpreter in all auditoria seating 100+ shall be placed in the front of the room. This light shall not spill onto the projection screen and shall illuminate the Interpreter from the front. The light control may be located with other controls at the lectern.

8.11.3.2.4. Accessible seating in lecture halls shall be fixed table and moveable chairs and/or open space for wheelchairs.

8.11.3.2.5. Provide entrances to lecture halls that allow wheeled access to the teaching area and consider access to multiple seating levels of the classroom when under the ADA Standards for Accessible Design.

8.11.3.3. Acoustics:

8.11.3.3.1. All classrooms shall be designed with three (3) acoustic goals:

8.11.3.3.1.1. Prevent external and background noise from affecting the room.

8.11.3.3.1.2. Prevent sounds generated within the room from affecting adjacent spaces.

- 8.11.3.3.1.3. Foster effective sound transmission from the speaker and media to the audience, and allow audience comments to be easily heard.
- 8.11.3.3.2. Classroom acoustics shall meet the standards recommended in the ANSI/ASA S12.60-2010 American National Standard Acoustical Performance Criteria, Design Requirements and Guidelines for Schools.
- 8.11.3.3.3. Extend walls to structure.
- 8.11.3.3.4. Use absorptive materials, in addition to upholstered seating, to control reverberation time.
- 8.11.3.3.5. Acoustical ceiling tile may be considered part of the acoustical treatment.
- 8.11.3.3.6. Acoustical Wall Panels, as needed
- 8.11.3.3.6.1. Shall be placed beyond arm's reach where possible.
- 8.11.3.3.6.2. Placed on the rear wall when one (1) wall in conventional classroom is to be treated. Place rear wall panels on the upper half of the wall, with bottom of panels no lower than 4 feet 0 inches above finished floor.
- 8.11.3.3.6.3. Side wall treatment may be added if rear wall does not provide surface at the minimum listed below for the type of room. Place side wall panels no lower than 6 feet 0 inches above finished floor.
- 8.11.3.3.6.4. Panel configuration does not have to be continuous, panels may be spaced rather than butted against each other.
- 8.11.3.3.6.5. Specific recommended quantities are shown in the following tables:

<u>ROOM SIZE</u> <u>IN SQUARE FEET</u>	<u>RECOMMENDED ACOUSTICAL</u> <u>TREATMENT</u>
SEMINAR ROOM	
Up to 500	100 sf
500+	200 sf
SMALL CLASSROOM	
Up to 500	200 sf

501-750		300 sf
750+		450 sf
LARGE CLASSROOM		
Up to 1,000		400 sf
1,000+		800 sf
AUDITORIA AND LECTURE ROOMS		
Up to 2,500	8-12 foot	100 sf
Up to 3,500+	12-18 foot	500 sf
3,501 - 4,000	15-20 foot	800 sf
Up to 5,000+	20-40 foot	1750 sf

8.11.3.4.Ceiling:

8.11.3.4.1. Ceilings shall accommodate projection screen with bottom of screen at a minimum 3 feet 4 inches above finished floor, and screen height 1/5 the distance from front wall to last row of seats.

8.11.3.4.2. Ceiling height requirements may differ for seminar rooms, classrooms, and auditoria within the same building.

8.11.3.4.3. Provide maintenance access to equipment mounted at or above ceilings.

8.11.3.5.Wall Finishes:

8.11.3.5.1. Refer to Finishes section, above.

8.11.3.5.2. Locate chair rail on back and side walls.

8.11.3.5.3. Apply a durable, easy-to-clean surface such as epoxy paint across the entire front wall below the writing surface.

8.11.3.6.Windows:

8.11.3.6.1. Windows shall not be located at the front or back of classroom.

8.11.3.6.2. Provide light control at each window for media projection. Roller shades at 3 percent room darkening are preferred. Some locations may require dual-head with blackout roller shades. Mount tightly against frame or wall to reduce light spill.

8.11.3.7. Doors:

8.11.3.7.1. Preferred door location is at the rear of the classroom.

8.11.3.7.2. In rooms with tiered or sloped floors, place doors to allow wheeled access to the teaching area and multiple seating areas.

8.11.3.7.3. Equip new doors with sidelights maximum width of 1 foot 0 inches. In renovations where sidelights are not possible, provide clear glass panel in door, maximum 100 square inches; vision-panel base maximum 3 feet 6 inches above finished floor and top minimum 5 feet 2 inches above finished floor.

8.11.3.7.4. Doors shall operate quietly and provide acoustic separation.

8.11.3.7.5. Doors open outward and shall not block corridor traffic.

8.11.3.8. Flooring:

8.11.3.8.1. Flat floors shall be hard, durable and slip-resistant requiring minimal maintenance.

8.11.3.8.2. Seating areas in sloped and tiered floors may be sealed concrete.

8.11.3.8.2.1. Carpet may be used when a more luxurious floor finish than resilient flooring is required and operating budgets allow for proper maintenance.

8.11.3.8.2.2. Carpet shall be variegated in color, not solid, in order to hide dirt and wear.

8.11.3.8.2.3. Edge of stair risers shall be visible on carpeted stair aisles to prevent tripping.

8.11.3.9. Furnishings:

8.11.3.9.1. Furniture shall be selected for durability, ease of maintenance, and comfort.

8.11.3.9.2. General assignment classroom furniture shall have an appearance distinct from other furnishings in the building.

8.11.3.9.3. Writing surfaces shall be dark finish and resist marks.

8.11.3.9.4. Tablet arms shall be large enough to hold both an 8 ½ by 11 inch pad and electronic device.

8.11.3.9.5. In renovations, color and finish of moveable furnishings shall be consistent with overall building materials.

- 8.11.3.9.6. Furniture items shall be comfortable for people ranging in size from the 5th percentile female (4 feet 11 inches tall, 113 pounds) to the 95th percentile male (6 feet 2 inches tall, 246 pounds).
- 8.11.3.9.7. Fixed Auditoria and Lecture Room seating width shall be 23 to 24 inches on center. Riser mounted seating may be preferred for new riser construction – confirm with Owner.
- 8.11.3.9.8. Student tables shall be minimum depth of 18 inches.
- 8.11.3.9.9. Moveable tables shall be equipped with casters.
- 8.11.3.9.10. Moveable seating shall not have arm rests.
- 8.11.3.9.11. Caster or chair-glide shall match room flooring type.
- 8.11.3.9.12. Ten (10) percent of all seating shall be suited for left-handed users.
- 8.11.3.9.13. Lecture and Seminar Room seating shall be heavy-duty, stain repellant, upholstered fabrics.
- 8.11.3.9.14. Instructor table shall be 48 to 60 inches wide by 24 inches deep and include a modesty panel.
- 8.11.3.9.15. Instructor chair shall be provided.
- 8.11.3.9.16. Provide battery-operated GPS clock. Match existing campus clock system managed by the Office of the Provost.
- 8.11.3.9.17. Rooms shall have a multimedia lectern.
- 8.11.3.9.18. Rooms shall have a moveable tabletop or free-standing lectern in addition to the multimedia lectern.
- 8.11.3.9.19. Coat racks shall not be provided.
- 8.11.3.9.20. Pencil sharpeners shall not be provided.
- 8.11.3.9.21. Tack surfaces in the general assignment classrooms shall not be provided.
- 8.11.3.10. Typical Classroom Front:
 - 8.11.3.10.1. The distance from the front wall to the first row of seats shall be between one (1) to two (2) times the height of the projection screen.
 - 8.11.3.10.2. Typical screen height in a flat floor classroom is 8 feet.
 - 8.11.3.10.3. The multimedia lectern shall not obstruct students' view of the writing surface and projection screen.
 - 8.11.3.10.4. Classroom seating layout

8.11.3.10.4.1. Locate seats within the viewing angle. The viewing angle is considered 45-degrees each side of the center of the projection screen.

8.11.3.10.4.2. Classrooms shall be narrow enough to permit all seats to be within the viewing angle from the front wall.

8.11.3.10.5. Projection screen shall be placed to allow at least a 6 foot wide portion of the writing surface to remain visible when the screen is lowered.

8.11.3.10.6. Provide space for a moveable instructor's table, 48 to 60 inches wide by 24 inches deep, and instructor chair. Instructor's chair is not required in seminar classrooms.

8.11.3.11. Writing Surfaces:

8.11.3.11.1. In each classroom, provide maximum possible writing surface at the front instruction wall. Additional writing surface on side walls may be provided.

8.11.3.11.2. Writing surface shall be porcelain-covered steel, dry-erase marker board with continuous full-length tray.

8.11.3.11.3. Minimum width shall be 12 foot. Writing surface shall be a minimum 4 feet in height, mounted 86 inches above finished floor to top. Bottom of the board shall not be less than 36 inches above finished floor.

8.11.3.11.4. Provide continuous cork tack strip at top. Strip shall be equipped with map hooks at 24 inch intervals.

8.11.3.12. Projection Booth:

8.11.3.12.1. An enclosed booth is preferred in Lecture Halls and Auditoria.

8.11.3.12.2. Booth shall include projector shelf and window with access for equipment maintenance.

8.11.3.12.3. Include additional mechanical cooling for large-venue projection equipment.

8.11.3.12.4. Provide cabling raceway from the lectern or A/V rack to the booth.

8.11.3.12.5. Where an enclosed booth is not possible, a securable cabinet may be used.

8.11.3.12.6. Acoustically isolate the booth.

8.11.3.13. Mechanical Systems:

8.11.3.13.1. HVAC equipment mounted in rooms adjacent to classrooms shall be isolated for vibration and noise control.

8.11.3.13.2. HVAC diffusers and intakes shall not be placed near or directed toward projection screens.

8.11.3.14. The HVAC system shall provide for year-around service.

8.11.3.15. Electrical Systems:

8.11.3.15.1. The front teaching wall shall have minimum of one (1) duplex outlet.

8.11.3.15.2. The number and location of the outlets shall be coordinated with Owner.

8.11.3.15.3. Electrical outlets shall be provided in all fixed student tables, with outlets for each pair of seats.

8.11.3.16. Lighting:

8.11.3.16.1. Provide back-lit toggle switches at each room entrance.

8.11.3.16.2. Locate clearly labeled lighting controls on the instructor multimedia lectern and on wall nearest to the instructional area.

8.11.3.16.3. Consult ITS EI - Physical Infrastructure for any programmable/scene lighting configuration.

8.11.3.16.4. Lighting controls shall be integrated into the multimedia control panel.

8.11.3.16.5. Classrooms shall have a minimum of two (2) separately controlled occupied areas, seating area and instructional area, with the ability to dim both areas independently.

8.11.3.16.6. General classroom lighting shall provide 45 - 65 foot candles on writing surfaces.

8.11.3.16.7. Lighting in rooms with sloped or tiered floors shall take into account the slope to provide consistent foot candles across the entire seating area.

8.11.3.16.8. Lighting shall be evenly distributed for reading and writing and allow occupants to see each other's faces.

8.11.3.16.9. Seating area shall maintain lighting levels adequate for note-taking while viewing projection screens. Note-taking lighting levels may be achieved with dimming or selected switching of lamps.

8.11.3.16.10. Provide independent, adjustable lighting at projection screens.

8.11.3.16.11. Provide independent, adjustable lighting at writing surface. Writing surface shall be evenly illuminated.

8.11.3.16.12. Maintain lighting levels at the lectern adequate for reading.

8.11.3.16.13. Avoid suspending fixtures from the ceiling to prevent conflict with ceiling-mounted projectors.

8.11.3.16.14. Provide task lighting on the equipment rack or technology controls.

8.11.3.16.15. Provide LED step lights at all level changes in a classroom or auditorium. Step lights shall not be part of the room control system.

8.11.3.16.16. Mount luminaires so lamps are parallel to front wall.

8.11.3.17. Technology:

8.11.3.17.1. Provide portable media equipment storage closet, with storeroom lock, in each classroom building. Closet shall include one (1) data and one (1) electrical outlet.

8.11.3.17.2. Classrooms shall include projector, screen and multimedia equipment.

8.11.3.17.3. Consult ITS EI - Physical Infrastructure for multimedia equipment, rack, lectern, and controls requirements.

8.11.3.17.4. Multimedia lecterns shall be adjustable to allow for a variety of positions and ADA access.

8.11.3.17.5. Multimedia Lecterns:

8.11.3.17.5.1. Shall have minimum 15 RUs for A/V equipment.

8.11.3.17.5.2. Surface space for a 24 inch monitor, 7 inch control touch panel, document camera, and 24 inches of writing space.

8.11.3.17.5.3. Minimum of one (1) dedicated 20 amp circuit at the lectern.

8.11.3.17.5.4. Minimum of five (5) data outlets and one (1) phone line.

8.11.3.17.5.5. Phone for hotline calls, located at the lectern or wall nearest lectern.

8.11.3.17.5.6. Provide mock-up of the lectern for instructors review. Allow sufficient time for any modifications before production.

8.11.3.17.6. Audio/visual signal pathways, conduit size, and termination points in the general assignment classrooms shall be approved or specified by ITS EI - Physical Infrastructure.

8.11.3.17.7. Voice amplification is required for rooms seating seventy (70) or more. Rooms with voice amplification shall provide external line level outputs for assistive listening devices and/or multi-boxes.

8.11.3.17.8. Provide full wireless coverage for all classroom spaces.

8.11.3.17.9. Provide a minimum of four (4) active network drops grouped together at the instructor's lectern or nearby location as approved by ITS EI - Physical Infrastructure.

8.11.3.17.10. TILE classrooms require five (5) active network drops at the instructor's station and four (4) network drops for each student table. Additional capacity to expand data service to every seat in a TILE classroom is preferred.

8.11.4. Classroom Types:

8.11.4.1.Seminar Room:

8.11.4.1.1. Furnish with a large central table or multiple small tables that can be grouped into one (1) central table.

8.11.4.1.2. Furnish with moveable chairs.

8.11.4.1.3. Design for up to twenty-two (22) students.

8.11.4.1.4. Basis of design is 25 square foot per seat.

8.11.4.2.Small Classroom:

8.11.4.2.1. Flat floor.

8.11.4.2.2. Furnish with moveable tables and chairs.

8.11.4.2.3. Design for up to fifty (50) students.

8.11.4.2.4. Basis of design is 25 square foot per seat.

8.11.4.2.5. When tablet arm chairs are authorized, allow 18 square foot per seat.

8.11.4.3.Large Classroom:

8.11.4.3.1. Entrances may be located at the front of the room for disability access.

8.11.4.3.2. Tiered floor.

8.11.4.3.3. Furnish with fixed tables and moveable chairs.

8.11.4.3.4. Design for fifty-one (51) to ninety-nine (99) students.

8.11.4.3.5. Basis of design is 20 square foot per seat.

8.11.4.4.Lecture Hall/Auditoria:

8.11.4.4.1. Sloped or tiered floor.

8.11.4.4.2. Furnish with low maintenance, fixed tablet arm chairs. Seats shall be labeled with row and number.

8.11.4.4.3. Design for one-hundred (100) or more students.

8.11.4.4.4. Basis of design is 12 square feet per seat.

8.11.4.4.5. Design to include lobby or gathering area adjacent to space for circulation and seating.

8.11.4.5.TILE (Transform, Interact, Learn, Engage) Inquiry-Based Learning Space:

8.11.4.5.1. Flat floor.

8.11.4.5.2. Furnish with tables and moveable chairs.

8.11.4.5.3. Spaces shall be designed creatively with primary focus on student and instructor collaboration.

8.11.4.6. Shared Informal Study Space:

8.11.4.6.1. These spaces are defined as individual and collaborative study space available on an unscheduled basis.

8.11.4.6.2. Furnish with equipment and infrastructure to support individual and group work.

8.12. Offices:

8.12.1. Guidelines for office size:

8.12.1.1. Dean or Vice President: 200 to 300 square feet

8.12.1.2. Departmental Executive: 180 square feet

8.12.1.3. Faculty private office: 140 square feet

8.12.1.4. Staff private office: 120 square feet

8.13. Loading Dock Facilities:

8.13.1. Review loading dock facility requirements with Owner.

8.13.2. Potential requirements:

8.13.2.1. Landfill dumpster or compactor equipment with appropriate decking, railings and access.

8.13.2.1.1. Costs associated to procure and account for dumpsters or compactors shall be part of the project.

8.13.2.1.2. Dumpsters shall be accessible by a front-loading truck with the following minimum dimensions:

8.13.2.1.2.1. Travel access height: 13 feet 2 inches

8.13.2.1.2.2. Arm operation height: 23 feet

8.13.2.1.2.3. Overall width: 9 feet 6 inches

8.13.2.1.2.4. Overall approach length: 30 feet 8 inches

8.13.2.1.2.5. Vehicle wheelbase: 16 feet 8 inches

8.13.2.1.2.6. Turning radii, inside: 43 feet

8.13.2.1.2.7. Turning radii, outside: 60 feet 8 inches

8.13.2.1.2.8. Loading Docks shall have a minimum slope of 1.0% and a maximum slope of 5.0%.

8.13.2.1.3. Compactors and recycle roll-off containers shall be accessible by a rear hook and lift system truck.

8.13.2.1.3.1. Minimum arm operation height: 17 feet 6 inches feet

8.13.2.1.3.2. Overall approach length: 54 feet

8.13.2.1.3.3. Compactor length: 22 feet 6 inches

8.13.2.1.3.4. Compactor height: 8 feet 7 inches

8.13.2.1.3.5. Overall width: 9 feet 6 inches

8.13.2.1.3.6. Travel access height: 13 feet 2 inches

8.13.2.1.3.7. Provide with IDOT required bumper assembly.

8.13.2.1.4. Provide either hydraulic or manual lift and/or catwalks for servicing trash / recycle containers.

8.13.2.1.5. Refuse trucks shall not be expected to back up more than fifty (50) feet to access or exit dock.

8.13.2.1.6. Dock levelers shall be sealed to prevent air infiltration.

8.13.2.2. Truck dock bays at grade and/or at loading height. Bays may include a recessed lift.

8.13.2.3. Minimum of two (2) spaces for service vehicle parking.

8.13.2.4. Dedicated receiving area.

8.13.2.5. Dedicated holding area (hazardous materials, chemicals, spent lamp storage).

8.13.2.6. Keyed hose bibbs with easy access and an isolated shut-off valve.

8.13.2.7. Two (2) area drains, one (1) in open areas and one (1) near dumpster locations in enclosed areas.

8.14. Animal Rooms:

8.14.1. All animal rooms shall comply with the current edition of AAALAC standards.

8.14.2. Additional standards that shall be considered by the Design Professional are Federal Regulations, Title 9, Subchapter A, Animal Welfare 43FR56217, the Public Health Service Regulations contained in DHEW Publications number (NIH) 78-23, Guide for Care and Use of Laboratory Animals and the Biosafety in Microbiological and Biomedical Laboratories (BMBL).

9. CONVEYING SYSTEMS

9.1. General:

- 9.1.1. The hydraulic oil tank of any conveying system such as an elevator, lift, or escalator as well as piping shall comply with the SPCC requirements if the capacity of the system is 55 gallons or more. Refer to ENVIRONMENTAL COMPLIANCE.

9.2. Elevators:

- 9.2.1. Elevators shall be designed to the current ASME/ANSI A17.1, Safety Code for Elevators and Escalators.
- 9.2.2. Passenger elevators shall be high-efficiency electric traction.
- 9.2.3. Hydraulic elevators may be considered for fewer than four (4) stops or when higher load capacities are required.
- 9.2.4. Elevator machine rooms, hoist ways and lobby spaces shall be environmentally conditioned to allow for proper operation of the elevator.
- 9.2.5. Provide a minimum of one (1) elevator per each new building with inside car dimension minimum 96 inches by 70 inches and a door opening width of 48 inches. Minimum of one (1) elevator shall provide service to mechanical penthouses.
- 9.2.6. Access to basement and penthouse mechanical spaces shall be provided.
- 9.2.7. Elevator pit shall have a sump pit, a sump pump with an alarm connected to the building control system, and no floor drain.
- 9.2.8. Provide one (1) GFCI receptacle in the elevator car.
- 9.2.9. Elevator car lighting shall be LED.
- 9.2.10. Elevator finishes
 - 9.2.10.1. Freight elevators shall have textured aluminum or textured steel floors. Wall finishes shall be steel.
 - 9.2.10.2. Passenger elevator shall have entry-mat quality carpet tile floors or hard surfaces.
 - 9.2.10.2.1. Carpet tiles shall not contain animal hair.
 - 9.2.10.2.2. Hard surface options include terrazzo and VCT.
 - 9.2.10.2.3. Rolled goods shall not be used.

9.3. Lifts:

- 9.3.1. Vertical platform lifts and incline stair lifts are not allowed.
- 9.3.2. Loading dock lifts for material transportation are allowed.

9.4. Escalators:

- 9.4.1. Escalators are not allowed.

IV. STRUCTURAL

The following information is provided as a guide for designing structural support systems. All load criteria shall be in accordance with the current edition of the applicable codes.

1. GENERAL

1.1. Load Criteria:

1.1.1. Load criteria for all structural systems shall be noted on the drawings.

1.1.2. Roof Loadings:

1.1.2.1. Minimum ground snow load design is 30 psf.

1.1.2.2. Snow load design shall also account for drift-loading on lower roof surfaces.

1.1.3. Floor Loadings:

1.1.3.1. Shall account for program requirements.

1.1.4. Wind Design:

1.1.4.1. Wind load design criteria shall be 90 mph wind load, Importance Factor 1.15, Exposure B for East and West Campuses, Exposure C for Research Park, Hawkeye and Finkbine Campuses.

1.2. Separate additions from existing structures with an expansion joint.

1.3. Vertical loads shall not be transferred through horizontal expansion joints.

1.4. Expansion joint assemblies in floors shall be semi-recessed, creating a smooth floor finish, and rated for cart traffic.

1.5. Facilities shall be constructed of fire resistant materials.

2. FOUNDATIONS

2.1. Use current geotechnical investigation to establish soil profiles, design parameters, compaction requirements, and foundation design options.

3. CONCRETE

3.1. Mix Design and Material:

3.1.1. Concrete strengths shall be specified in accordance with actual requirements.

3.1.2. Concrete mix shall be specified with minimum cement content, as well as maximum water/cement ratio.

3.1.3. Lignite shall be limited to 0.07 percent, by weight of the fine aggregate in all exposed concrete. Lignite-free applications may be required by Owner.

3.1.4. Calcium chloride in concrete mixes shall not be permitted.

- 3.1.5. Substitution of up to 20% (by weight) of cement material with class C or F fly-ash complying with AASHTO M 295 is acceptable.
- 3.2. Exposed Concrete:
 - 3.2.1. Exposed concrete intended as a finish material shall be clearly identified in the drawings and specifications.
- 3.3. Precast Concrete:
 - 3.3.1. Panels shall be designed with adequate structural integrity to permit handling, transportation, storage, and erection.
 - 3.3.2. Fabricator shall comply with the following codes and standards:
 - 3.3.2.1. ACI-318 "Building Code Requirements for Reinforced Concrete"
 - 3.3.2.2. CRSI "Manual of Standard Practice"
 - 3.3.2.3. Pre-stressed Concrete Institute MNL117, "Manual for Quality Control for Plant and Production for Architectural Precast Concrete Products."
- 3.4. Placement:
 - 3.4.1. Base course and under slab drainage system for slabs shall conform to geotechnical engineer recommendations. Slabs shall be constructed on a minimum 4 inch base of $\frac{3}{4}$ to 1 inch clean rock with a plastic vapor barrier.
 - 3.4.2. Areas having floor drains shall have positive slope to the floor drain. Indicate direction of pitch on drawings.
 - 3.4.3. Slab flatness and levelness shall be within 1/8 inch in 10 feet.
 - 3.4.4. ASTM E1155 shall be used to specify flatness and levelness when a high level of accuracy is required.
 - 3.4.5. Joint spacing and detail shall be shown on the drawings.
- 3.5. Testing:
 - 3.5.1. Design Professional shall specify allowable limits for each test required.
- 4. MASONRY
 - 4.1. General:
 - 4.1.1. Stone coping shall be used for modification to existing facilities with stone coping.
 - 4.1.2. Use of stone coping for design effect shall require approval from Owner.
 - 4.1.3. Masonry units shall not be used for foundation walls below grade.
 - 4.1.4. Waterproofing materials shall not be used on new masonry or stone surfaces.

- 4.1.5. Design Professional shall indicate wall expansion joints on drawings.
- 4.1.6. Mortar and Manufacture of Masonry Units shall conform to current ASTM Standards on Masonry. ASTM C91-89 (Standard Specification for Masonry Cement) and C270-89 (Standard Specification for Mortar for Unit Masonry) shall apply.
- 4.2. Brick and Block Masonry:
 - 4.2.1. Follow Brick Institute of America (BIA) and Masonry Advisory Council (MAC) for design requirements.
 - 4.2.2. Allowances may be specified for brick only if specific selections cannot be made.
 - 4.2.3. Brick used as paving material shall be paving grade, set in a concrete base, with an asphalt leveling course.
 - 4.2.4. Testing:
 - 4.2.4.1. Brick, including that incorporated into the face of architectural precast panels, shall comply with ASTM C216 and have a rating of “no efflorescence” when tested according to ASTM C67.
 - 4.2.4.2. Lab certification of brick shall be based on samples taken from the project specific production run and shall be approved prior to delivery.
- 4.3. Stone Masonry:
 - 4.3.1. Limestone shall follow the current edition of the Indiana Limestone Handbook.
- 5. METALS
 - 5.1. Structural Steel:
 - 5.1.1. Construction Documents shall clearly assign the responsibility for the design of steel connections. The responsible party shall seal the connection designs.
 - 5.1.2. Design Professional shall use twist-off bolts and load indicator washers for field structural connections where possible.
 - 5.1.3. Pre-engineered metal building roof purlins shall be adequately braced on the compression flange to resist all design loads.
 - 5.1.4. Purlin slide clips commonly used with standing seam systems shall not be considered an effective brace for the purlin.
 - 5.1.5. Separate purlin bracing such as threaded rods or sag angles shall be provided in addition to the slide clips.
 - 5.2. Miscellaneous Metals:
 - 5.2.1. Refer to Section IV for information.
 - 5.3. Testing:
 - 5.3.1. Design Professional shall specify allowable limits for each test required

6. WOODS AND PLASTICS

6.1. Rough Carpentry:

6.1.1. Fire-retardant lumber shall be in accordance with American Wood Preservers Association standards.

6.2. Architectural Millwork and Cabinetry:

6.2.1. Architectural millwork and cabinetry shall meet Architectural Woodwork Institute standards.

V. BUILDING MECHANICAL

The following information is provided as a general guideline in establishing Mechanical Engineering design requirements.

1. GENERAL

1.1. The Design Professional shall plan access for servicing and maintenance of equipment.

1.1.1. Wall and Ceiling Access Doors:

1.1.1.1. Access doors shall be placed in a reasonable and safe location. Location points shall be noted if under carpet.

1.2. Mechanical rooms shall include ventilation and temperature management where the space may exceed 85 degrees F.

1.3. Mechanical rooms shall have ubiquitous coverage for wireless data internet.

1.4. Minimize rooftop equipment and roof penetrations by consolidating equipment in mechanical rooms.

1.5. Piping riser shall not be routed through Custodial Spaces.

1.6. Shut-off valves shall be provided at pipe branches and where required to facilitate partial system isolation. Each floor shall have a minimum of one (1) shut-off valve, located on the main branch.

1.7. Equipment, fixtures, or other appliances attached to any piping system shall have a shut off valve located at the connection to the piping system.

1.8. All valves shall be located with sufficient room for maintenance or replacement.

1.9. For existing buildings, equipment names shall be consistent with the equipment naming convention used in that building. Avoid duplicating equipment names for new equipment (e.g., a new fan in an existing building with fans shall not be named "EF-1"). Request building equipment list from Owner.

1.10. For all equipment serving a space or a zone, preference is for that equipment name to correspond to the space or zone it serves. (e.g., a VAV serving space 1001 shall be named VAV-1001).

1.11. The use of once-through cooling of any equipment is prohibited. Water-cooled systems shall use chilled water.

1.12. Additions to all new and existing supply piping shall extend off the top of the pipe, with the exception of condensate piping.

1.13. Refer to ENVIRONMENTAL COMPLIANCE, above.

2. FIRE PROTECTION AND SUPPRESSION

2.1. General:

- 2.1.1. New buildings shall be designed with automatic fire protection systems throughout the building.
- 2.1.2. Automatic fire suppression systems shall be provided as a part of major renovation projects.
- 2.1.3. Wet pipe type system is preferred.
- 2.1.4. Partially renovated buildings shall be considered for automatic wet sprinkler fire protection coverage during the design scope of the project.
- 2.1.5. Refer to UI Fire Safety Department Guide Specifications.
- 2.1.6. All projects shall be hydraulically recalculated to prevent incorrect information from old hydraulic calculations.
- 2.1.7. System shall be designed in accordance with NFPA and FM Global for the application intended.
- 2.1.8. Each individual floor shall be isolated into its own sprinkler zone.
- 2.1.9. Size exterior fire department connections according to requirements of the local authorities having jurisdiction.
- 2.1.10. Sprinkler system tamper and flow valves shall be monitored by the building's fire alarm panel.
- 2.1.11. Use dry pipe system in non-heated areas in lieu of chemical system.
- 2.1.12. Fire pump room shall have outdoor and direct interior access.

2.2. Submittals and Shop Drawings:

- 2.2.1. Refer to Section IV for information.

2.3. Piping and Pumps:

2.3.1. Piping:

- 2.3.1.1. Mains shall be run in hallways and corridors.
- 2.3.1.2. Mechanical joint piping systems may be used for fire protection systems. If mechanical joint systems are used, fittings shall rolled grooved fittings. Mechanical joint systems shall not be cut grooved. Plain-end fittings shall not be used.

2.3.2. Pumps:

- 2.3.2.1. Fire pump electrical feeder shall originate from its own dedicated outdoor transformer or from the load side of the main building transformer, ahead of all secondary disconnects.

2.3.2.2. Electric fire pump controllers shall be equipped with automatic transfer switch (emergency power). The transfer switch shall be equipped with its own listed disconnect means.

2.4. Accessories:

2.4.1. Valves:

2.4.1.1. Refer to Section IV for information.

2.4.2. Drains:

2.4.2.1. Drainage piping shall be provided for all test locations that is sufficient to carry the full flow of water that can be expected during testing of the systems.

2.4.2.2. Main drain shall be parallel with the sprinkler riser.

2.4.2.3. Floors above ground shall be designed to drain to the exterior of the building, while below grade floors shall be designed to drain to sanitary sewer or, if possible, daylight, with auxiliary drains installed to handle the remaining trapped water.

2.4.2.4. Design system to drain back to its individual floor zone valve.

2.4.2.5. If auxiliary or test drains are needed, coordinate with Fire Safety.

2.4.3. Sprinklers:

2.4.3.1. Refer to Section IV for information.

2.4.4. Fire Extinguishers:

2.4.4.1. Refer to Section IV for information.

2.4.5. Fire Extinguisher Cabinets:

2.4.5.1. Extinguishers shall be installed in a cabinet for all new construction.

2.4.5.2. Cabinets shall be used in all public areas, i.e., corridors, lounges, lobbies, gathering spaces.

2.5. Testing:

2.5.1. Refer to Section IV for information.

3. PLUMBING SYSTEMS

3.1. General:

3.1.1. Campus water distribution systems operate between 60 and 100 psig. Coordinate need for pressure reducing stations, or other application specific requirements, with Owner.

3.1.2. Domestic water heating systems shall be designed in accordance with Chapter 49 ASHRAE Handbook, HVAC System and Applications.

- 3.1.3. Desired temperature for normal faucet applications is a maximum of 110 degrees F at the point of usage.
- 3.1.4. Other applications may require varying temperatures (dishwashers, cage washers, etc.) and shall be individually evaluated. Install separate heaters or booster heaters at outlets requiring temperatures higher than 110 degrees F.
- 3.2. Insulation:
 - 3.2.1. Refer to HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) Insulation requirements, Section III D 3.
- 3.3. Instrumentation:
 - 3.3.1. Domestic Water Systems shall have ¾ inch pathway to a central location for water metering.
- 3.4. Piping and Pumps:
 - 3.4.1. General:
 - 3.4.1.1. Refer to Section IV for information.
 - 3.4.2. Domestic Water:
 - 3.4.2.1. Refer to Section IV for information.
 - 3.4.3. Sanitary Waste and Vent:
 - 3.4.3.1. Equipment requiring indirect waste (backflow preventers, ice machines, autoclaves, etc.) shall be served by a drain. More than one (1) piece of equipment may be served by a drain, provided equipment is in close proximity.
 - 3.4.3.1.1. Size drain for combined load.
 - 3.4.3.1.2. Floor drains are preferred.
 - 3.4.3.2. Drain piping shall not be routed across walkways, maintenance areas, or other traffic areas.
 - 3.4.4. Storm Sewer:
 - 3.4.4.1. All surface water shall be directed to a storm sewer system.
 - 3.4.4.2. Storm water shall not be placed in a sanitary sewer system.
 - 3.4.5. Special Systems:
 - 3.4.5.1. Refer to Section IV for information.
 - 3.4.6. Pumps:
 - 3.4.6.1. Refer to Section IV for information.

3.5. Equipment:

3.5.1. Water Heaters:

- 3.5.1.1. Water heaters and hot water storage tanks shall meet efficiencies set forth in the current edition of ASHRAE/IES Standard 90.1. Water heaters shall meet the requirements of State of Iowa Administrative Rules, Chapters 94 and 95, for state registration purposes.
- 3.5.1.2. Instantaneous, tankless water heating systems, using campus utility steam or hot water are the preferred heat source for hot water systems.
- 3.5.1.3. Shell and tube heat exchangers shall have the heat source inside the tubes.
- 3.5.1.4. If a natural gas combustion unit is selected, provide Owner with manufacturer, model, and maximum capacity information.
- 3.5.1.5. If water heater tank capacity is 120 gallons or more or if heat input capacity is 1.6 MMBtu/hr or more, then additional requirements may apply. Contact Owner for further information.

3.5.2. Expansion Tanks:

- 3.5.2.1. Dumping excess water due to expansion shall not be allowed.

3.5.3. Water Softeners:

- 3.5.3.1. Main Campus: Potable hot water systems shall have water softening. Other water systems shall be softened only in specific applications.
- 3.5.3.2. The University of Iowa Research Park (Oakdale Campus): All systems shall have water softening.
- 3.5.3.3. Design water softening systems to supply water at less than 1 grain of hardness.
- 3.5.3.4. Water supply typically has 7 to 10 grains of hardness on Main Campus and 25 grains of hardness on The University of Iowa Research Park (Oakdale Campus). Coordinate project specific hardness with Owner.
- 3.5.3.5. The Design Professional shall coordinate the sizing and specifications of water softeners with Owner.

3.5.4. Backflow Preventers:

- 3.5.4.1. Domestic water systems shall have backflow prevention devices at the point of building entry.
- 3.5.4.2. Metering devices, taps, or other fittings shall be located upstream of backflow preventers. If a common supply serves both the domestic water system and the fire protection system, the two (2) systems shall be split outside the building.

3.6. Fixtures:

3.6.1. General

3.6.1.1. Water flow control devices shall be water conserving.

3.6.1.2. Waterless urinals shall not be allowed.

3.6.1.3. Fixtures shall be wall-mounted.

3.6.2. Water Coolers:

3.6.2.1. Water coolers shall be dual-level, refrigerated type, equipped with stainless steel surround.

3.6.2.2. Provide Glass Fillers used in combination with drinking fountains in high traffic areas. Review locations with Owner.

3.6.2.3. Supplemental domestic water chillers shall not be allowed.

3.6.3. Hose Bibbs and Wall Hydrants:

3.6.3.1. Hose bibbs and wall hydrants shall comply with UPC standards listed in chapter 6, i.e., ASSE 1001 or CSAB 64.2.1.1.

3.6.3.2. A hose connection shall be installed on roofs and in each mechanical room.

3.6.3.3. Hose connections shall be located on the exterior of each building. A minimum of one (1) hose connection shall be installed on each side of the building. Spacing for hose connections is one (1) every 100 feet. Hose connections shall be installed within 15 feet of the main entrance to the building, if feasible.

3.6.4. Floor Drains:

3.6.4.1. Mechanical rooms shall have a minimum of one (1) floor drain. Additional floor drains shall be installed as required to maintain a minimum ratio of one (1) floor drain for every 500 square feet of floor area. These floor drains are in addition to drains required for equipment.

3.6.4.2. Mechanical room floor drains shall not be connected to the storm sewer system.

3.6.4.3. Flooring shall pitch toward the floor drain to eliminate standing water.

3.6.4.4. Provide floor drains in all toilet rooms. Square drains shall be used for tile floors, round drains for concrete floors.

3.6.5. Emergency Showers and Eyewash Stations:

3.6.5.1. Emergency showers and eyewashes shall be provided as required by OSHA or project program requirements. Coordinate with Owner.

3.6.5.2. Piping to emergency showers and eyewashes shall comply with ANSI Z358.1 2004.

3.6.5.3. In new construction, emergency shower shall discharge to floor surface (no floor drain), unless directed otherwise by Owner.

3.6.5.4. Emergency showers shall have a local alarm.

3.7. Testing:

3.7.1. Refer to Section IV for information.

4. HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

4.1. General:

- 4.1.1. Heating and cooling system loads for the purpose of sizing systems and equipment shall be determined in accordance with procedures described in the ASHRAE Handbook -Fundamentals.
- 4.1.2. Outdoor design conditions shall be selected from the latest edition of ASHRAE Handbook - Fundamentals, or from data obtained from the National Climate Center or similar recognized weather source.
- 4.1.3. Heating design temperature shall not be lower than the 99 percent dry-bulb (dB).
- 4.1.4. Cooling design temperature shall be 92 F dB, 76 F wb and for cooling towers 79 F wb.
- 4.1.5. Winter humidification shall not be provided for general comfort applications.
- 4.1.6. Humidification shall be provided for 100 percent outdoor air systems or special areas (e.g., labs, museums, rare books).
- 4.1.7. Ventilation systems shall be designed to provide outdoor air ventilation rates in accordance with ANSI/ASHRAE Standard 62.
- 4.1.8. Exhaust/return fans shall be included in the HVAC design. Single fan systems are prohibited.
- 4.1.9. Fresh air intakes shall be designed above grade and shall be no closer than 50 feet to parking areas.
- 4.1.10. Piping systems shall be designed in accordance with the latest edition of ASHRAE Handbook - Fundamentals.
- 4.1.11. HVAC equipment shall have a minimum efficiency at the specified rating condition, not less than the values shown in ASHRAE 90.1. Compliance with minimum efficiency requirement specified for HVAC equipment shall include compliance with Integrated Part-Load Value (IPLV) as well as standard or full-load requirements.
- 4.1.12. Centralized heating and chilled water are preferred systems, where available. For 100 percent outside air requirements, a steam heat exchanger shall be used to incorporate antifreeze protection for preheat coils. Reheat applications shall incorporate a steam-to-hot-water heat exchanger for better temperature control.
- 4.1.13. Electric heating systems shall not be used.
- 4.1.14. Vibration and sound transmission from mechanical equipment and systems shall not exceed ASHRAE sound criteria design guidelines, Table 42, ASHRAE HVAC Applications Handbook, Chapter 47.
- 4.1.15. Size each unit (heat exchanger, cooler, fan coil, or air handler) connected to the central chilled water system for a minimum inlet temperature of 44 degrees F and a minimum temperature differential of 16 degrees F.

- 4.1.16. The water velocity in piping shall not exceed 7 feet/second. Maximum design pressure drop of 4 feet/100 feet of equivalent pipe length.
- 4.1.17. Provide an off-season chilled water distribution pump for year-round chilled water loads. Provide appropriate Sequence of Operation to ensure chilled water pumps operate to maximize efficiency.
- 4.1.18. The use of once-through cooling of any equipment is prohibited. Water-cooled systems shall use chilled water.
- 4.1.19. Geothermal Systems:
 - 4.1.19.1. Geothermal systems shall not be used where central utilities are available.
 - 4.1.19.2. Open loop systems shall not be used.
- 4.1.20. Refrigerant Management
 - 4.1.20.1. Owner is required to comply with Title VI of the Clean Air Act relating to ozone depleting substances.
 - 4.1.20.2. Owner's preference is to use HFC refrigerants for comfort, commercial, and industrial process cooling. Class I refrigerants (CFCs) shall not be allowed.
 - 4.1.20.3. Design Professional shall notify Owner when project includes cooling equipment that contains over 50 pounds of refrigerant.
 - 4.1.20.4. Venting refrigerant into the atmosphere is prohibited. Provisions for proper handling and disposal of refrigerants shall be made. Design Professional shall coordinate with the Owner.

4.2. Piping:

4.2.1. General

- 4.2.1.1. Expansion tanks shall be bladder-type and located on the suction side of pumps.
- 4.2.1.2. Hydronic piping systems on either a total building, partial building, or a room basis shall utilize a reverse return piping arrangement if three (3) of the four (4) criteria below are met:
 - 4.2.1.2.1. Loads are widely-spread throughout the project scope area.
 - 4.2.1.2.2. Distribution piping can make a complete loop starting and ending in either the mechanical room, or internal source of the hydronic piping in the building, for an entire building or starting and ending at hydronic piping distribution mains for a partial portion of the building.
 - 4.2.1.2.3. The project scope area is greater than 5,000 square feet.
 - 4.2.1.2.4. The hydronic system flow rate for the project scope area is greater than 25 gpm.

- 4.2.1.3. Hydronic piping systems shall always utilize a reverse return piping arrangement in the following situations:
 - 4.2.1.3.1. Multiple identical devices require equal flow proportions from a common supply.
 - 4.2.1.3.2. Multiple devices are served by a common zone valve or circulator (e.g., several fin tube elements served by one (1) zone valve)
- 4.2.2. Hot Water Piping:
 - 4.2.2.1. Combination air/dirt separators are required on all systems and shall be coalescing-type.
- 4.2.3. Chilled Water Piping:
 - 4.2.3.1. Chilled water loops shall be two (2) pipe systems.
 - 4.2.3.2. Chilled water and/or process chilled water systems that require year-round use shall have a winter interface with chilled water pump and pump control sized for the winter load.
 - 4.2.3.3. Some applications (large temperature rise, water quality issues) may require separation of the chilled water and the medium cooling the device.
 - 4.2.3.3.1. Size the heat exchanger for an inlet chilled water temperature of 44 degrees F and a minimum chilled water temperature differential of 12 degrees F.
 - 4.2.3.3.2. Control chilled water flow to the heat exchanger according to the temperature of the departing chilled water.
- 4.3. Insulation:
 - 4.3.1. Insulation shall comply with the requirements of ASHRAE 90.1, version adopted by the State of Iowa.
 - 4.3.2. Piping insulation for chilled water, chilled potable water, and systems operating below 60 degrees F shall be flexible closed-cell elastomeric or styrofoam/polyisocyanurate.
 - 4.3.3. Heating water, domestic water, storm, and sanitary piping insulation shall be fiberglass, flexible closed-cell elastomeric, or cellular glass.
 - 4.3.4. Refrigerant piping insulation shall be flexible closed-cell elastomeric.
 - 4.3.5. Storm drain bodies shall be insulated. Horizontal storm piping immediately downstream of the drain bodies shall be insulated to the first vertical elbow.
 - 4.3.6. Exposed sanitary piping in occupied spaces shall be insulated.
 - 4.3.7. Provide insulation on equipment, pipes, and ducts where:
 - 4.3.7.1. Heat transmitted shall significantly affect ambient temperatures in temperature controlled spaces.
 - 4.3.7.2. Heating or cooling effects shall be significantly affected due to heat flow into or out of pipes or ducts.

- 4.3.7.3. Condensation will occur as surface temperature approaches dew point of the ambient air.
- 4.3.7.4. Significant energy loss would result from heat transfer.
- 4.3.7.5. External surface temperature is greater than 120 degrees F.

4.4. Air Distribution:

4.4.1. Ductwork:

- 4.4.1.1. Supply/return air systems shall be designed in accordance with the latest edition of ASHRAE Handbook - Fundamentals.
- 4.4.1.2. Return air shall be ducted.
- 4.4.1.3. Return air ceiling plenum systems shall not be permitted.

4.4.2. Accessories:

- 4.4.2.1. Refer to Section IV for information.

4.5. Equipment:

4.5.1. General:

- 4.5.1.1. Refer to Section IV for information.

4.5.2. Refrigerant Systems:

- 4.5.2.1. Mechanical room installations shall comply with ASHRAE Standard 15.
- 4.5.2.2. Air-cooled condensing units shall not be placed in conditioned spaces or machine rooms.
- 4.5.2.3. Design all roof-mounted condensing units to 115 degrees F outside air temperature.
- 4.5.2.4. Condensing units, if designed to operate at less than 55 F, shall be provided with hot gas bypass and with condenser fan cycle control operated from the head pressure.

4.5.3. Pumps: Design Professional shall evaluate the need for vibration isolation on the pump.

4.5.4. Air Handling Equipment:

- 4.5.4.1. Refer to Section IV for information.

4.5.5. Humidifiers:

- 4.5.5.1. Reverse Osmosis water shall be used for humidification.
- 4.5.5.2. Direct-steam humidification systems shall not be used.

4.5.6. Corrosion Coupon Rack:

- 4.5.6.1. Refer to Section IV for information.

4.5.7. Chemical Pot Feeders:

4.5.7.1. Refer to Section IV for information.

4.5.8. Bag Filters:

4.5.8.1. Refer to Section IV for information.

4.6. Lab Systems:

4.6.1. General

4.6.1.1. Lab HVAC system shall be designed as 100 percent outside air, Variable Air Volume (VAV) supply and exhaust system. Constant Air Volume (CAV) applications, system or zones, require a Deviation Request.

4.6.1.2. Lab exhaust systems shall be designed for continuous operation. Any component of the exhaust air system requiring maintenance access shall be accessible, without human exposure to the exhaust airstream, while the exhaust system is in operation.

4.6.1.3. Where feasible, ventilation to offices, conference rooms, corridors, and other non-lab spaces shall be provided from a different air handling system.

4.6.1.3.1. Exception: Lab office space where air is transferred to adjacent laboratory to maintain airflow direction requirements.

4.6.1.4. Serve special use lab spaces, such as animal holding, BSL-3, etc., from a dedicated supply and exhaust system.

4.6.1.5. Labs and adjacent spaces shall be designed and balanced to maintain appropriate airflow direction and/or space pressure relationships from low hazard areas to high hazard areas at all times. Airflow and/or pressure relationships shall be clearly identified in the documents.

4.6.1.6. In lab spaces where the dominant design consideration is sensible cooling load, a stand-alone cooling systems served by a year-round chilled water loop shall be evaluated for potential energy savings over a traditional all air system.

4.6.1.7. Design Professional shall determine the required ventilation rates to maintain air quality and safety of the room while minimizing overall energy use. Minimum air changes shall be as follows:

	Minimum Air Changes per Hour (ACH)	
	Occupancy Sensor Occupied	Occupancy Sensor Unoccupied
Time-of-Day Schedule		
Occupied	6	6
Unoccupied	6	4

- 4.6.1.8. Written notification shall be submitted to the owner if a space requires ventilation rated other than indicated minimums.
- 4.6.1.9. Indicate design minimum air changes on the Room Airflow Matrix. Refer to Article 6. Controls, 6.6. Air Flow Matrix, below.
- 4.6.1.10. Design Professional shall verify the HVAC system design is capable of reliable control throughout the full potential range of minimum and maximum airflows that may be required for any given space. Design Professional shall not oversize HVAC control devices.
- 4.6.1.11. Lab spaces shall have dedicated and separate exhaust air systems from non-research functions in the building.
- 4.6.1.12. Recirculated air equipment (fan coil units and induction units) shall not be used in Tissue Culture or similar rooms where the introduction of bacteria would affect research.
- 4.6.1.13. Lab HVAC systems, including fume hoods and safety cabinets, shall be fully commissioned.
- 4.6.2. Redundancy: N+1 redundancy of critical central HVAC systems shall be provided with multiple air handling units and exhaust fans to provide redundancy and improve reliability. These systems shall be designed to include manifold air-handling units and exhaust fans to achieve N+1 redundancy and maintain operation at all times. Systems utilizing a fan array design approach may also be considered to meet these requirements.
- 4.6.3. Heat Recovery:
 - 4.6.3.1. Heat recovery shall be used in all lab HVAC systems.
 - 4.6.3.2. Total (sensible and latent) energy recovery wheels shall be the default design condition. Other considerations shall include run around loops and heat pipe systems based on life cycle cost or lab-specific application.
 - 4.6.3.3. Energy recovery wheels for laboratory systems shall be evaluated based on programmatic use of the building, analysis of the hazardous materials and chemicals planned in use, and factory and field performance testing to verify allowable cross contamination limits.
 - 4.6.3.4. Energy Wheels:
 - 3.3.1.1.1. Energy recovery wheels are permitted if purge system is used to limit cross contamination to 0.04% of the exhaust air concentration by volume. The transfer media shall be coated with 3 angstrom molecular sieve desiccant.
 - 3.3.1.1.2. Silica gel desiccants allow significant cross contamination from exhaust to supply streams and are not permitted.
 - 4.6.3.5. Combination heat recovery-preheat coils shall not be used due to complications in controllability and the possibility of overheating intake air in summer time.
- 4.6.4. Temperature Controls:
 - 4.6.4.1. Occupancy sensors shall be designed to provide full coverage of the laboratory area and shall have an output to the Building Automation System (BAS) for use in the temperature and ventilation control sequences.

4.6.4.2. Space temperature deadbands shall be as follows:

	Temperature Deadband (F)	
Time-of-Day Schedule	Occupancy Sensor Occupied	Occupancy Sensor Unoccupied
Occupied	+/- 1	+/- 3
Unoccupied	+/- 1	+/- 6

4.6.5. Pressure and Airflow Control:

4.6.5.1. Supply and exhaust air shall be monitored by airflow measuring stations (AFMS) to maintain positive or negative pressure relationships. Through-the-wall room pressurization controllers shall be avoided.

4.6.5.2. Laboratories requiring positive pressure, such as genome DNA processing rooms, tissue culture laboratories, clean laboratories or sterile facilities etc., shall have personnel entry door, anteroom, or other means of maintaining pressure relationship.

4.6.6. Ductwork:

4.6.6.1. Fully duct supply, exhaust, and outside air systems for all spaces.

4.6.6.2. Special use hoods (such as radioisotope hoods), ducted Biological Safety Cabinets, or high pressure drop applications shall be separately exhausted, and not incorporated into a common exhaust plenum system, to avoid any particular application driving the static pressure requirements of the entire exhaust system.

4.6.6.3. Smoke dampers and/or fire dampers shall not be installed in laboratory exhaust ducts serving fume hoods, safety cabinets, or other containment equipment.

4.6.6.4. Duct materials shall be evaluated with vapors being exhausted. 304 stainless steel shall be used as the design basis for most solvents and potentially flammable vapors. All stainless steel duct seams and joints shall be welded.

4.6.6.5. Plastic laboratory exhaust duct shall be FM Global approved for use without automatic sprinkler protection.

4.6.7. Fume Hoods :

4.6.7.1. Fume hoods shall:

4.6.7.1.1. Be restricted air bypass-style type and set up for variable air volume (VAV) control.

4.6.7.1.2. Be designed for a minimum face velocity of 100 FPM at a sash working height of 18 inches.

4.6.7.1.3. Be provided with proximity sensors and automatic sash closures

- 4.6.7.1.4. Have a face velocity no lower than 80 FPM.
 - 4.6.7.1.5. Have been tested and certified per the latest version of ASHRAE Standard 110.
 - 4.6.7.1.6. High performance (low velocity) hoods may be considered for locations where this will result in the potential of a lower life cycle cost for the project.
- 4.6.7.2. The location of fume hoods, supply/exhaust air devices, lab equipment, casework, and walkways are to be designed to eliminate potential disruption to the airflow at the face of the fume hood opening.
- 4.6.7.3. Hoods shall not be located near doors or primary walkways.
- 4.6.7.4. Ambient air velocity, caused by supply outlets, etc., shall not exceed 30-40 FPM at the hood face.
- 4.6.7.5. Fume hoods shall be provided with a local monitor that gives a visible indication of face velocity and a visible/audible alarm when the face velocity is out of the acceptable design range. Fume hood monitor/controller and lab control system shall be integrated with the Building Automation System (BAS) with all available points mapped back to the BAS.
- 4.6.8. Biological safety cabinets (BSC):
 - 4.6.8.1. Class II, Type A1 or Type A2 (recirculated), shall not be hard-ducted to the building exhaust system.
 - 4.6.8.2. Class I, Class II-B1 (partially exhausted) and Class II-B2 (fully exhausted) shall be hard ducted to a dedicated building exhaust air system.
 - 4.6.8.3. Class II-B1 and Class II-B2 shall be factory provided with means of shutting down the internal fan whenever the static pressure in the connected building exhaust air system drops below the required set point.
 - 4.6.8.4. Exhaust systems serving BSC shall include variable frequency drive to increasing the system static pressure to compensate for loading of the HEPA filters.
- 4.6.9. Storage Cabinets:
 - 4.6.9.1. Flammable storage cabinets shall not be vented.
 - 4.6.9.2. Locate vented corrosive storage cabinets underneath fume hoods, if present.
- 4.6.10. Exhaust Fans:
 - 4.6.10.1. Exhaust discharge shall be a minimum of ten feet above the roof or highest building surface within 50 feet of the stack and discharged with a minimum velocity of 3,000 FPM.
 - 4.6.10.2. If project conditions do not allow the minimum requirements listed above, configuration exhaust dispersion modeling of the building and surrounding facilities shall be completed to assure acceptable indoor air quality of all facilities.

- 4.6.10.3. Exhaust fans shall be located to provide full access for maintenance and be as close to the exhaust stack as possible.
- 4.6.10.4. It is preferred that the fan be located exterior to the building. When the exhaust fan must be located in an interior mechanical space, provide minimum exhaust of one air change per hour in that space.

4.7. Steam Systems:

4.7.1. General

- 4.7.1.1. The campus pumped condensate return system operates with low pressure and is by gravity flow in most areas.
- 4.7.1.2. Low pressure steam is 20-25 psig. Medium pressure steam is defined as having 20 to 85 psig.
- 4.7.1.3. Building systems shall be designed for a maximum operating pressure of 15 psig.
- 4.7.1.4. Sizing of control valves, PRV, traps, etc., shall be based on a delivery pressure setting up to 30 psig.

4.7.2. Pumps, Valves, and Piping:

4.7.2.1. Pumps:

- 4.7.2.1.1. Refer to Section IV for information.

4.7.2.2. Valves:

- 4.7.2.2.1. Refer to Section IV for information.

4.7.2.3. Piping - Medium and Low Pressure Steam - Above Grade:

- 4.7.2.3.1. Refer to Section IV for information.

4.7.3. Equipment:

4.7.3.1. Heat Exchangers:

- 4.7.3.1.1. Heat exchangers shall be ASME approved and shall be installed with relief valves, rated for the service, on both steam and hot water systems.
- 4.7.3.1.2. Locate heat exchangers to allow removal of the bundle.
- 4.7.3.1.3. Refer to *HOT WATER CONVERTOR STEAM AND CONDENSATE PIPING* DETAIL in Appendices.
- 4.7.3.1.4. Pressure powered pump/receiver shall have a condensate receiver inlet reservoir of welded steel construction, mounted above the pump and sized in accordance with the manufacturer's recommendations.

- 4.7.3.2. Condensate receiving tank shall have a drain installed.

- 4.7.3.3. Install gauges and thermometers to indicate the following:
 - 4.7.3.3.1. Pressure of entering steam.
 - 4.7.3.3.2. Pressure and temperature of entering water.
 - 4.7.3.3.3. Pressure and temperature of leaving water.
- 4.7.3.4. Install expansion tanks on the water side of all heat exchangers with a sight glass and provisions for draining and venting.
- 4.7.3.5. Condensate tanks shall be sized at a minimum of three (3) times the calculated peak flow in gpm and shall have two (2) separate vents.
- 4.7.3.6. All coils shall be tube-in-tube, non-freezing type with a minimum 1 inch O.D. tubing.

4.8. Snowmelt Systems:

- 4.8.1. Snowmelt system feasibility shall be evaluated during early design for all new buildings and any building renovation involving entrance steps or ramps.
- 4.8.2. Snowmelt systems shall provide 24/7 protection from accumulation of snow and ice at major building entrances and ADA ramps.
- 4.8.3. Snowmelt systems shall circulate Dowfrost propylene glycol under low pressure through closed-loop piping embedded in concrete. Design Professional shall coordinate acceptable glycol mix ratio from owner prior to design.
- 4.8.4. Snowmelt system use shall be limited to the following:
 - 4.8.4.1. Main building entrances.
 - 4.8.4.2. Building entrances on the north and west building; faces a maximum of 10 feet from the building.
 - 4.8.4.3. Discuss the use of snowmelt on the south and east building entrances with Owner.
 - 4.8.4.4. Stairways and ramps at building entrances.
 - 4.8.4.5. Locations on the primary access route to a building entrance that are unable to be cleared with typical UI snow removal equipment (e.g., sidewalks less than 7 foot wide). Discuss instances with Owner.
 - 4.8.4.6. Truck delivery points where delivery ramp is sloped.
- 4.8.5. Snowmelt systems shall not be used in the following:
 - 4.8.5.1. On public sidewalks or roadways farther than 10 feet from building entrance.
 - 4.8.5.2. Where alternate pathways are available that would not necessitate installing snowmelt (e.g., a connecting sidewalk underneath a skywalk providing access to the same location).
- 4.8.6. System shall maintain a heating water temperature of 112 degrees F.

4.8.7. Snowmelt systems shall be controlled through the Building Automation System (BAS). Snowmelt is enabled if Outside Air Temperature \leq 50 degrees F and below; Snowmelt is disabled if OAT >50 degrees F or if the heating water temperature is \geq 130 degrees F.

4.8.8. Sequence of Operations:

4.8.8.1. The lead circulation pump shall start. If lead pump fails to start based on a current status switch, the lag pump shall start.

4.8.8.2. Once circulation pump has proven operational by the current status switch, the heat exchanger shall energize.

4.8.8.3. Heating water control valve shall be modulated in order to maintain the glycol water temperature of 112 degrees F.

4.8.9. Snowmelt system shall be manually enabled through the BAS. BAS shall provide an email notification to BLS every 24 hours that the snowmelt system is enabled.

4.8.10. Design snowmelt systems for a maximum 150 Btu-h per square foot heat input.

4.8.11. All snowmelt systems shall have a BTU meter installed to measure energy usage.

4.8.11.1. The data from the BTU meter shall be mapped back to the BAS and be included in the snowmelt graphic screen.

4.8.11.2. Points to be mapped are BTU, flow (gpm), supply and return temperatures.

4.9. Testing:

4.9.1. Refer to Section IV for information.

5. INSTRUMENTATION

5.1. Meters:

5.1.1. Domestic Water Meters: Design Professional shall coordinate sizing and location of meters with Owner.

6. CONTROLS

6.1. General:

6.1.1 All systems shall be fully compatible and integrate into the existing University building automation network and shall tie into University virtual server in lieu of a dedicated building server.

6.1.2 New buildings and major renovations shall use Direct Digital Control (DDC) system with devices reporting to a central Building Automation System (BAS) within the building, networked to the campus BAS.

6.1.3. Existing Buildings:

6.1.3.1. Control systems in existing buildings shall be an extension of the existing system. Integration of multiple control systems is not acceptable.

6.1.3.2. If the existing building controls system is a combination of pneumatic and DDC, the new work shall be DDC and the pneumatic shall be upgraded to match the rest of the building.

6.1.3.3. Minor renovations in buildings with pneumatic zone control may re-use existing components with prior approval. New components shall utilize DDC technology.

6.1.4. Field controllers shall be able to accept program uploads and downloads across the network.

6.1.5. Control networks shall be engineered to accommodate point collection, trending, and alarm points available from third-party vendor devices.

6.1.6. Control network shall be networked on a dedicated communication bus and master controller.

6.1.6.1. Size network to accommodate use of 50 percent of available third-party vendor trends, alarms, etc.

6.1.6.2. Size network to provide an additional 20 percent capacity.

6.1.7. Occupancy Sensor Zone Control:

6.1.7.1. Provide occupancy sensor HVAC zone control in areas subject to extended unoccupied periods during normal building occupied hours

6.1.7.1.1. Refer to the table in section IV-E-3-a for specific locations where HVAC integration is recommended.

6.1.7.1.2. Occupancy sensors shall be designed to provide full coverage of the area and shall have an output to the Building Automation System (BAS) for use in the temperature and ventilation control sequences.

6.1.7.2. Refer to section IV-E-3-a design guidelines on sensor locations.

6.1.7.3. Design system to allow airflow to ramp down to the supply and return fan minimum speeds.

6.1.7.4. Space temperature deadbands shall be as follows. Refer to Lab Systems for temperature deadbands in laboratory spaces.

Occupancy Mode	Description of Mode	HVAC Status	Temperature Deadband (°F)	
			Occupancy Sensor Occupied	Occupancy Sensor Unoccupied
Primary Occupancy	Standard Occupancy Hours	ON	+/- 1	+/- 3
Secondary Occupancy	Not standard occupancy hours, but the building is available to occupants	ON	+/- 1	+/- 6
Unoccupied	Building is unoccupied, HVAC is scheduled off	OFF	+/- 8	+/- 8

6.1.8. CO2 Ventilation Control:

6.1.8.1. CO2 sensor-driven Demand Control Ventilation strategies shall not be used without prior approval.

6.1.8.2. CO2 sensors shall not be installed in zones if not controlling ventilation air volumes to the space.

6.1.8.3. Locate sensors to allow for easy calibration or replacement on a regular maintenance schedule. Do not locate sensors in inaccessible shafts or above hard-lid ceilings.

6.1.8.4. Sensor Accuracy: $\pm 2\%$

6.1.8.5. Measuring Range: 0-2000 ppm

6.1.8.6. Reliability: 3 years of reliable calibration

6.1.8.7. Acceptable manufacturers: Johnson Controls, Kele, Schneider

6.1.9. Zone controls shall be determined based on one (1) room/occupied area per zone to allow the room occupancy sensor to control the occupied/unoccupied mode of each zone controller to maximize energy conservation.

6.1.10. BACnet Integration:

6.1.10.1. Design Professional shall require direct communication with the manufacturer's highest level of customer support, and may need to converse with the manufacturer's BACnet development team during project design, and implementation to make sure that the BACnet controller is capable of accomplishing 100 percent of the Sequence of Operation.

6.1.10.2. Design Professional shall be responsible to insure that third party BACnet controllers are able to adhere to the same point capabilities as the building automation system.

6.1.10.3. BACnet conformance disputes that may arise with the equipment manufacturers with BACnet devices will be resolved by the project Design Professional working directly with equipment manufacturer.

6.2. Scopes of Work:

6.2.1. Refer to Section IV for information.

6.3. User Interface:

6.3.1. Refer to Section IV for information.

6.4. Sensors and Equipment:

6.4.1. Sensors and equipment shall be standard nonproprietary components regularly manufactured for this and/or other systems and not custom-designed specifically for this project.

6.5. Installation:

6.5.1. Refer to Section IV for information.

6.6. Air Flow Matrix:

6.6.1. Design Professional shall provide an Air Flow Matrix for the Constructor using the Air Flow Matrix Detail below.

6.6.2. VAV box flow shall be selected within the readable range of the selected product. When using differential pressure style airflow stations in VAV boxes, the minimum airflows shall not be less than:

VAV Size	Min. CFM	VAV Size	Min. CFM
5 inch	53 cfm	14 inch	410 cfm
6 inch	75 cfm	16 inch	537 cfm
7 inch	102 cfm	18 inch	680 cfm
8 inch	135 cfm	20 inch	840 cfm
9 inch	170 cfm	22 inch	1016 cfm
10 inch	210 cfm	24 inch	1210 cfm
12 inch	302 cfm		

6.6.3. Air Changes Per Hour (ACPH):

6.6.3.1. For positive rooms, the ACPH shall be based on the minimum supply airflow.

6.6.3.2. For negative rooms, the ACPH shall be based on the minimum exhaust/return airflow.

AIR FLOW MATRIX

Note: The Air Flow Matrix above is intended to be displayed horizontally as a header starting with the Room Number column on the top left and ending with the Notes column on the top right. Matrix shall be located with the HVAC Mechanical Schedules.

Room Number	Room Type	Supply VAV ID	Associated AHU	Supply VAV Inlet Size	Supply VAV AREA	Inlet FPM at Lowest Min CFM	Occ Supply CLG Max CFM	Occ Supply HTG Max CFM	Occ Supply HTG/CLG Min CFM	Unoc Supply CLG Max CFM	Unoc Supply HTG Max CFM	Unoc Supply HTG/CLG Min CFM
Example # 1	Lab	LSV 1	LAHU 1	8"	0.349	400	635	635	250	525	525	140

Exhaust VAV ID	Associated EF	Exhaust VAV Inlet Size	Exhaust VAV AREA	Inlet FPM at Lowest Min CFM	Occ Exhaust Max CFM	Occ Exhaust Min CFM	Unoc Exhaust Max CFM	Unoc Exhaust Min CFM
LEV 1	LEF 1	8"	0.349	500	670	285	560	175

Fume Hood VAV ID	Associated EF	Fume Hood VAV Size	Fume Hood Area	Inlet FPM at Lowest Min CFM	Fume Hood Max CFM	Fume Hood Min CFM
FHV 1	LEF 1	8"	0.349	472	550	165

Room Bias CFM (pos/neg)	Room Pressure	Room Volume Ft 3	Occ ACPH	Unoc ACPH	Notes:
neg 200	neg 0.01"	4,500	2.20	2.20	

6.7. Testing:

6.7.1. Refer to Section IV for information.

VI. ELECTRICAL

The following information is provided as a general guideline in establishing Electrical Engineering design requirements.

1. GENERAL

1.1. General:

- 1.1.1. New building main power supplies and distribution panels shall be oversized for future requirements. A minimum of 20 percent spare capacity shall be provided within each breaker panel board. Spare capacity is defined as 20 percent space feeder capacity and 20 percent spare poles within the panel.
- 1.1.2. Only UL or equivalent approved appliances and equipment shall be specified.
- 1.1.3. When installing or changing electrical equipment, the Design Professional shall evaluate available fault currents and size the ampere interruption capacity accordingly.
- 1.1.4. Provide separate demolition and construction drawings.
- 1.1.5. Show conduit sizes, routings, number and sizes of conductors for all feeder and homerun circuits.
- 1.1.6. Show lighting and power circuits on the drawings. Identify the panel terminal point for each circuit.
- 1.1.7. Provide a schematic wiring diagram of power and lighting related control circuits on the construction drawings.
- 1.1.8. New buildings or building additions may require ground fault zone interlocking. Review options with Owner regarding project needs.
- 1.1.9. Provide a riser diagram for each system covered under Division 26.
- 1.1.10. Show electrical schedules for panel boards, distribution boards, motor control centers and related items on the drawings. Indicate connected demand load.
- 1.1.11. Electrical distribution equipment shall not be located in stairwells.
- 1.1.12. The design for buildings that house sensitive laboratory or data processing equipment shall clearly address the power quality requirements and location for the equipment. Separate neutrals, oversized neutrals and isolated grounds shall be installed where necessary.
- 1.1.13. Electrically heated snow/ice melting systems are not allowed.
- 1.1.14. The Design Professional shall evaluate anticipated building loads for potential harmonic design requirements.
- 1.1.15. Power circuits shall not share neutrals.
- 1.1.16. Provide lighting and GFCI receptacles in all accessible pipe spaces, pipe shafts, duct shafts, attic spaces, tunnels and mechanical equipment rooms.
- 1.1.17. Fire alarm and miscellaneous signals shall be in conduit.
- 1.1.18. Lighting and receptacles in electrical and generator rooms shall be on emergency power.
- 1.2. Identification:
 - 1.2.1. The Design Professional shall clearly indicate the required wording of all labels.

1.3. Arc Flash:

1.3.1. Refer to Section IV for information.

1.4. Grounding:

1.4.1. Buried loop is the preferred method for establishing grounding. In new construction, establish grounding through use of concrete reinforcing steel.

1.4.2. Driven grounds shall not be specified where soil conditions consist of rock. In such conditions, use a counterpoise system or another approved alternative.

1.4.3. Building steel shall not be used for grounding unless specifically designed and tested for this application.

1.4.4. Building columns, roof steel, and steel reinforcing shall be made electrically continuous for grounding purposes.

1.4.5. Water lines, building steel, and a grounding conductor from existing building shall be bonded together.

1.4.6. Grounding electrode shall have a resistance to ground between 2 to 5 ohms.

1.4.7. Ground systems shall be connected to the primary power system ground mat serving the facility.

1.4.8. All grounding system conductors shall be copper.

1.4.9. Provide a separate grounding conductor with all circuits.

2. MEDIUM-VOLTAGE (601 VOLTS – 69k VOLTS) ELECTRICAL DISTRIBUTION:

2.1. Refer to Section IV for information.

3. LOW-VOLTAGE ELECTRICAL DISTRIBUTION:

3.1. Equipment:

3.1.1. Design:

3.1.1.1. Load centers shall be used only when a few circuits are required for a specific purpose, such as the dedicated panel in an elevator machine room.

3.1.1.2. Service entrance switchboards shall have a main circuit breaker.

3.1.1.3. Phase, neutral and ground buss shall be copper.

3.1.1.4. The phase arrangement on 3-phase buss shall be A-B-C from left to right, top to bottom, front to back as viewed from the front of the switchboard.

3.1.1.5. Provide a minimum 20 percent spare, usable space in new switchboards, panelboards, and motor control centers.

- 3.1.1.6. In existing buildings, new switchboards, panelboards, motor control centers, enclosed switches, circuit breakers and VFD shall match existing.
- 3.1.2. Transient Voltage Surge Suppression:
 - 3.1.2.1. Locate suppression equipment in the enclosure of the equipment being served.
 - 3.1.2.2. Provide a disconnecting means to isolate the suppression equipment.
- 3.1.3. Switchboards:
 - 3.1.3.1. Provide continuous ground bus the full length of the switchboard.
 - 3.1.3.2. All switchboards shall have separate neutral and grounding busses.
- 3.1.4. Panelboards:
 - 3.1.4.1. Provide continuous ground bus the full length of the panelboard.
 - 3.1.4.2. All panelboards shall have separate neutral and grounding busses.
- 3.1.5. Motor Control Center:
 - 3.1.5.1. Starters shall have fusible disconnects rather than circuit breakers.
 - 3.1.5.2. Control circuit voltage shall be 120 volts or less.
 - 3.1.5.3. Provide a minimum of two (2) additional auxiliary contacts (1 N.O. and 1 N.C.) in magnetic starters.
 - 3.1.5.4. Design each motor control center section so starter units may be rearranged, removed or added.
- 3.1.6. Breakers, Fuses and Safety Switches:
 - 3.1.6.1. Renewable fuses shall not be used.
 - 3.1.6.2. Equipment shall be specified with fuse holders that accept fuses dimensionally the same as Class H fuses.
 - 3.1.6.3. Safety switches intended for use on circuits where current limiting fuses are required shall be specified with rejection clips designed to permit installation of Class R fuses only.
 - 3.1.6.4. Locate equipment disconnects adjacent to equipment served. If not feasible, locate per NEC.
 - 3.1.6.5. Tandem branch circuit breakers shall not be used.
- 3.1.7. Variable Frequency Drive (VFD):
 - 3.1.7.1. Provide analysis of VFD input current harmonics on the distribution system. Specify harmonic criteria and require field testing of harmonic performance. Total harmonics shall not exceed 3 percent.

3.1.7.2. Bypass shall not be provided.

3.1.7.3. Critical applications shall require a spare VFD as identified by the Owner.

3.1.7.4. A VFD shall not serve more than one (1) piece of equipment.

3.2. Devices:

3.2.1. Receptacles shall be provided on the ground floor of all stairwells and in all elevator lobbies.

3.2.2. Locate floor maintenance receptacles so that all areas are accessible with a 25 foot cord.

3.2.3. GFCI receptacles shall be used in lieu of GFCI breakers.

3.3. Raceways, Boxes, and Supports:

3.3.1. Raceway and Boxes:

3.3.1.1. All systems shall be installed in conduit. Flexible wiring systems shall not be used.

3.3.1.2. For Feeders, conduit shall be sized at least one (1) size above the NEC requirement of wire being installed or anticipated being installed, with minimum size of 1 inch.

3.3.1.3. A red plastic tracer tape shall be buried 18 inches above all underground cable or conduit installations.

3.3.1.4. PVC conduit for Blue Cap phones and parking gates shall be sized a minimum of 1 inch.

3.3.1.5. To reduce sound transmission, wall outlet boxes shall not be installed back-to-back in a partition stud space.

3.3.1.6. Maintain a 6 inch minimum from top of ceiling tile support grid to any raceway.

3.3.2. Supports:

3.3.2.1. Refer to Section IV for information.

3.4. Wire and Cable:

3.4.1. Neutral conductors shall be a minimum of full size. Neutral conductor capacity shall be increased as necessary for harmonics.

3.4.2. Conductors and buss shall be copper. Aluminum conductors or buss shall not be used.

3.4.3. Normal, emergency, life safety, 120/208, and 277/480 shall not occupy the same raceways except where normal and emergency conductors of the same voltage are in G4000 wiremold.

3.4.4. Conductors carrying more than 150v to ground shall not be installed in conduits with conductors carrying less than 150v to ground.

3.5. Metering and Switchgear:

3.5.1. Refer to Section IV for information.

4. EMERGENCY AND BACKUP POWER SYSTEMS

4.1. Life Safety Backup Power:

4.1.1. Life safety backup power shall be by an Uninterruptible Power Supply (UPS). Generators require an approved Deviation Request.

4.1.2. Uninterruptible Power Supplies (UPS):

4.1.2.1. Provide cooling, ventilation, and maintenance access space in battery rooms and battery cabinets.

4.1.2.2. Provide containment systems in battery rooms.

4.2. Non-Life Safety Backup Power:

4.2.1. Non-life safety backup power shall be served by natural gas engine generators. Diesel engine generators require an approved Deviation Request.

4.2.2. Packaged Generator Assemblies:

4.2.2.1. If a diesel engine generator is installed:

4.2.2.1.1. Fuel day tanks in generator rooms shall be 660 gallon maximum, provided with spill containment and leak detection. All fuel piping shall exit the top of the tank.

4.2.2.1.2. Total on-site fuel storage shall provide for a minimum of 8 hours of run time.

4.3. Load Shedding Generation:

4.3.1. In general, the Owner will not seek to utilize generators for load shedding purposes. If load shedding is desired, requirements shall be determined via discussion with the Owner.

4.4. Generator Environmental and Code Compliance:

4.4.1. Generators shall be in compliance with New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), and other applicable environmental regulations. Refer to ENVIRONMENTAL COMPLIANCE for general air emissions compliance requirements.

4.4.1.1. Engine shall be certified to emission standards and certificate provided to the Owner.

4.4.1.2. NSPS requires installation of a non-resettable hour meter.

4.4.1.2.1. Consult Owner with regard to type of monitor and communications requirements.

4.4.2. The generator fuel system shall be arranged to automatically shut down upon a fire or detected leak.

4.4.3. Consult with the Owner for information on generator air construction permit requirements.

4.4.3.1. Owner shall file permit and registration application and complete air dispersion modeling.

4.4.3.1.1. Engines having maximum capacity greater than or equal to 400 brake horsepower (bhp) require that an air construction permit is received prior to commencing construction of the unit.

4.4.3.1.2. Engines having maximum capacity less than 400 bhp require a registration with the Iowa Department of Natural Resources.

4.4.3.2. Generator sets shall be located to disperse exhaust fumes (vertical exhausts with flapper-style rain caps), vibration and noise without affecting the normal functions of the building and surrounding site.

4.4.3.3. Stack height requirements shall be determined by the Owner based on dispersion modeling to meet ambient air quality standards.

4.4.4. Refer to ENVIRONMENTAL COMPLIANCE for Spill Prevention Control and Countermeasures (SPCC) requirements.

4.4.4.1. SPCC requirements apply to gear boxes and fuel tanks.

4.5. Monitoring and Data Transmission:

4.5.1. UPS condition shall be monitored.

4.5.2. Generators shall be continuously monitored to provide, at a minimum:

4.5.2.1. Engine run-hours

4.5.2.2. Engine power produced (kWh)

4.5.2.3. Engine fuel consumption

4.5.3. Engines shall be connected to the Utility Network or building automation system for purposes of collecting and sharing the monitoring data. Consult with Owner to determine connections for each project.

4.6. Transfer Switches:

4.6.1. Closed transition transfer switches shall be installed for all generators.

4.6.2. Provide a minimum of two (2) sets of auxiliary form-C contacts for normal and emergency transfer switch positions.

5. LIGHTING

5.1. General:

5.1.1. Conform to IES recommended foot-candle levels.

5.1.2. All new buildings, additions, and major remodels shall utilize the services of a Professional Lighting Designer, Lighting Certified (LC) by the National Council on Qualifications for the Lighting Professions (NCQLP).

- 5.1.3. Lighting quality shall be considered in the design of all artificial and natural lighting systems. Lighting design shall conform to IES DG-18-08 Light + Design: A Guide to Designing Quality Lighting for People and Buildings.
- 5.1.4. Energy efficiency and lighting quality shall be equal and balanced considerations when designing the lighting, selecting the products, and determining the architectural and interior finishes for a project.
- 5.1.5. Arrange lighting throughout all critical areas (including egress areas, assembly occupancies, health care facilities, and public safety operations) so that failure of any single element of the system, such as a lamp, ballast, switch, circuit breaker, or conductor, does not leave any portion of a critical area in darkness or illuminated at less than the levels required by code.
- 5.1.6. Warranties:
 - 5.1.6.1. Constructor shall be capable of being onsite within 4 hours for all warranty calls during the warranty period.
 - 5.1.6.2. All LED fixtures shall carry a five (5) year manufacturer's warranty. Warranty shall include LED board/chip set, driver and all other components involved with the performance of the LED product. Warranty shall include color shift of less than three (3) Macadam Ellipses and lumen depreciation faster than the manufacturer's published L70 rating.
- 5.2. Submittals and Shop Drawings:
 - 5.2.1. Refer to Section IV for information.
- 5.3. Interior Lighting:
 - 5.3.1. Design:
 - 5.3.1.1. The lighting design shall maximize the use of recessed and volumetric 2 foot by 4 foot luminaires using linear fluorescent or LED fixtures.
 - 5.3.1.2. Interior light sources shall be fluorescent or LED, except as follows:
 - 5.3.1.2.1. When installed in high ceiling spaces (over 12 feet) in finished areas, interior light sources shall be LED fixtures.
 - 5.3.1.2.2. When installed in high ceiling spaces (over 12 feet) in unfinished areas, such as warehouses and workshops, interior light sources shall be LED or T5 fluorescent.
 - 5.3.1.2.3. Three (3) and four (4) lamp fluorescent fixtures shall not be used.
 - 5.3.1.3. Coordinate luminaire locations with architectural features and adjacent structural and mechanical elements.
 - 5.3.1.4. Wholly indirect lighting systems are not acceptable.
 - 5.3.1.5. Where the control of glare is a consideration, parabolic louvers are preferred.

- 5.3.1.6. In rooms where video display terminals are used, fixtures shall have a minimum 0.7 visual comfort probability (VCP) value.
- 5.3.1.7. Restrooms: Lighting shall be accessible from a ladder for maintenance and cleaning. Fixture covers shall not be located above or behind water closets or counters.
- 5.3.1.8. Interior lighting systems shall operate at either 277 volt or 120 volt.
- 5.3.1.9. Lighting Designer shall work with the architect and/or Interior Designer to specify high reflectivity interior finishes achieving the following minimum reflectance values:
 - 5.3.1.9.1. Ceilings: 90 percent
 - 5.3.1.9.2. Walls: 50 percent
 - 5.3.1.9.3. Floors: 20 percent
- 5.3.1.10. Efficacy:
 - 5.3.1.10.1. Non-LED type fixtures shall carry a Luminaire Efficacy Rating (LER) of 55 or greater.
 - 5.3.1.10.2. All LED products shall carry a Lighting Facts label listing the LPW for that product.
 - 5.3.1.10.3. All LPW ratings shall be at the color temperature (CCT) used on the project
 - 5.3.1.10.4. LED type fixtures shall carry a Lumens per watt (LPW) with minimum values as follows:
 - 5.3.1.10.4.1. Recessed LED troffer style: 95 LPW
 - 5.3.1.10.4.2. Recessed linear LED: 70 LPW
 - 5.3.1.10.4.3. Recessed LED downlights: 50 LPW
 - 5.3.1.10.4.4. Linear indirect or indirect/ direct LED fixtures: 80 LPW
 - 5.3.1.10.4.5. LED cove lights: 75 LPW
 - 5.3.1.10.4.6. LED step lights: 30 LPW
 - 5.3.1.10.4.7. LED under cabinet or task lighting: 60 LPW
 - 5.3.1.10.4.8. LED track lighting fixtures: 45 LPW
- 5.3.1.11. Efficiencies:
 - 5.3.1.11.1. Non LED type fixtures shall have the minimum following efficiencies:
 - 5.3.1.11.1.1. Recessed linear fluorescent – 80 percent
 - 5.3.1.11.1.2. Linear indirect/ direct – 85 percent

5.3.2. Daylighting:

- 5.3.2.1. Incorporate natural daylighting to the greatest extent possible to replace or supplement artificial lighting. Use manual and/ or automatic control devices, such as blinds, diffusers, and light shelves to control distribution, brightness, and glare.
- 5.3.2.2. Design team shall ensure that the contribution from daylighting is included in HVAC loads. One (1) system shall not be sacrificed for the benefit of another.
- 5.3.2.3. All daylighting shall be incorporated free of glare to the occupants.
- 5.3.2.4. Uplighting under skylights is prohibited. Downlights in skylight wells or adjacent spaces shall be controlled thru automatic daylight dimming or switching.
- 5.3.2.5. Arrange interior lighting systems so appropriate areas can be switched or dimmed when adequate natural light is present. Where applicable, provide control by the following means:
 - 5.3.2.5.1. Wall switches placed for occupant convenience
 - 5.3.2.5.2. Automated dimming controls, which may include multi-level stepping or switching
 - 5.3.2.5.3. Photo sensors
 - 5.3.2.5.4. Programmable central control systems

5.3.3. Ballasts:

- 5.3.3.1. Ballasts shall be high efficiency, NEMA premium, electronic-type selected to match the lamp and output of fixture.
 - 5.3.3.1.1. Programmed Rapid Start (PRS) ballasts are required in all applications where occupancy sensors may turn the lights on and off more than five (5) times per day.
 - 5.3.3.1.2. Instant Start (IS) ballasts can be used in any area where the lights are on for longer durations, 12 hours or longer, or in areas not controlled by occupancy sensors.
 - 5.3.3.1.3. Ballast factor (BF) – The ballast factor shall be specified on all lighting fixture types. Specifier shall use standard (0.88) ballast factors to greatest extent possible. Where required, high ballast factors (1.15 - 1.2) or low ballast factors (0.7), can be used to tune the lighting to achieve a higher lighting level or to save energy.
 - 5.3.3.1.4. Limit the ballast factor in each building to a maximum of one (1) ballast factor per lamp type.

5.3.4. Lamps:

- 5.3.4.1. In new construction, building shall have no more than six (6) lamp types.
- 5.3.4.2. All lamps shall be TCLP compliant (low mercury).

5.3.4.3. Energy-saving lamps shall not be used in cold temperature applications (below 50 degrees F) or where fluorescent emergency lighting or dimming systems are used.

5.3.4.4. There shall be only one (1) type of T8 or one (1) type of T5 within a building. Renovation projects shall match existing lamps.

5.3.4.5. Incandescent, compact fluorescent, halogen, or metal halide lamps are prohibited.

5.3.4.6. Refer to the following table of Campus-wide standard fluorescent lamp types.

TYPE	DESCRIPTION	RATED LIFE	MANUFACTURER
Linear fluorescent (T8)	Bi-pin, 4' tube, 4100k, 80+ CRI, 32w, 2800L	36,000+	GE, Sylvania, Philips
Linear fluorescent (T8ES)	Bi-pin, 4' 4 foot tube, 4100k, 80+ CRI, 28w, 2725L	36,000+	GE, Sylvania, Philips
Linear fluorescent (T8HL – Super T8)	Bi-pin, 4 foot tube, 4100k, 80+ CRI, 32w, 3100L	36,000+	GE, Sylvania, Philips
Linear fluorescent (T5)	Bi-pin, 4 foot tube, 4100k, 80+ CRI, 28w, 2900L	36,000+	GE, Sylvania, Philips
Linear fluorescent (T5HO)	Bi-pin, 4 foot tube, 4100k, 80+ CRI, 54w, 5000L	36,000+	GE, Sylvania, Philips

5.3.5. Lighting Fixtures (Luminaries):

5.3.5.1. Custom lighting fixtures are prohibited.

5.3.5.2. All recessed can lighting shall be LED.

5.3.5.3. Exposed fixture housing surfaces, trim frames, door frames, and lens frames shall be free of light leaks.

5.3.5.4. Lens doors shall close in a light tight manner.

5.3.5.5. Hinged door closure frames shall operate smoothly without binding. Latches shall function easily by finger action without the use of tools.

5.3.5.6. Fluorescent lamp holder contacts shall be biting edge-type or phosphorous bronze with silver flash contact surface-type, conforming to requirements of UL 542.

5.3.5.7. Contacts for recessed double-contact lamp holders and slim-line lamp holders shall be silver plated.

5.3.5.8. Lamp holders for bi-pin lamps shall be telescoping compression-type or single-slot entry-type, requiring a ¼-turn of the lamp after insertion.

5.3.5.9. Light Transmitting Components for Fluorescent Fixtures

- 5.3.5.9.1. 100 percent virgin acrylic plastic or water white, annealed, crystal glass.
- 5.3.5.9.2. Flat lens panels shall have minimum 1/8 inch average thickness.
- 5.3.5.9.3. Lighting fixture closures (lens doors, trim frame, hinged housings, etc.) shall be retained in a secure manner by captive screws, chains, captive hinges or fasteners.
- 5.3.5.9.4. Fluorescent fixtures with louvers or light transmitting panels shall have hinges, latches, and safety catches to facilitate safe, convenient cleaning and re-lamping.
- 5.3.5.9.5. Vapor tight fixtures shall have pressure clamping devices in lieu of latches.
- 5.3.5.10. Open-tube Fluorescent Fixtures:
 - 5.3.5.10.1. Provide two (2) self-locking sockets or lamp retainers, per lamp.
 - 5.3.5.10.2. Lamps shall have non-yellowing shatter-resistant coating, shall be nominal thickness of 1/8 inch and minimum 97 percent light transmission.
 - 5.3.5.10.3. Clear polycarbonate protective sleeve with end caps shall be provided over lamp, minimum 95 percent light transmission. Sleeve shall be rated to withstand the thermal profile of the lamp and ballast.
- 5.3.5.11. Metal Finishes:
 - 5.3.5.11.1. Interior light reflecting finishes shall be white with minimum 85 percent reflectance.
 - 5.3.5.11.2. Exterior finishes shall be a baked, electrostatic powder coat.
- 5.3.6. LED Lamps and Fixtures:
 - 5.3.6.1. References to SSL and/or LED sources shall include the entire solid-state lighting system, including circuitry, LED boards, chip sets, power supplies, and drivers.
 - 5.3.6.2. Interior LED fixtures shall have a minimum color rendering index (CRI) of 80. Exterior LED fixtures shall have a minimum color rendering index (CRI) of 70. Color temperature of the chip sets/light engines of both interior and exterior LED fixtures shall be 4000k.
- 5.3.7. Emergency Egress Lighting Fixtures and Exit Signs
 - 5.3.7.1. Systems shall provide a minimum of 90-minutes emergency use.
 - 5.3.7.2. Acceptable systems, in order of Owner preference
 - 5.3.7.2.1. Fixtures and signs connected to compliant building backup power system, such as a generator.
 - 5.3.7.2.2. Self-contained fixture or sign battery units.
 - 5.3.7.2.3. Central inverter based system require written approval from Owner.

5.3.8. Fixture Installation:

5.3.8.1. All light fixtures shall be accessible without scaffolding.

5.3.8.2. Lighting fixtures shall not be installed above stair treads.

5.3.8.3. Lighting fixtures at landings shall meet ADA requirements for mounting heights.

5.3.8.4. Luminaires installed in occupancies such as laboratories and workshops shall be oriented parallel to benches and centered over the edge of the working surface. Space luminaires to maintain a maximum uniformity ratio of 2:1.

5.4. Interior Lighting Controls:

5.4.1. Design:

5.4.1.1. Conform to IECC and ASHRAE 90.1 requirements for automated lighting controls.

5.4.1.2. All rooms require lighting controls. Rooms with more than one (1) entry shall have lighting controls reviewed with Owner.

5.4.1.3. Develop Sequence of Operation with the Owner.

5.4.1.4. Use daylighting strategies and occupancy sensors to control lighting in areas subject to extended unoccupied periods during normal hours of occupancy.

5.4.1.5. Provide multi-level switching or dimming capabilities in areas where variable levels of illumination are required by users or for energy conservation. Such areas can include auditoriums, lecture halls, classrooms, gymnasiums, laboratories, offices, and workshops.

5.4.2. Sensors:

5.4.2.1. Wall switch sensors shall be factory-set to vacancy mode (manual on/auto off).

5.5. Exterior Lighting:

5.5.1. Illuminance Targets:

5.5.1.1. Exterior illuminance targets shall be selected in accordance with *The Illuminating Engineering Society Lighting Handbook, 10th Edition*. All areas should be considered Lighting Zone 2 (LZ2) with a high activity level. All illuminance targets are maintained values at grade unless noted otherwise.

5.5.1.2. No adjustment to illuminance targets shall be made for mesopic adaptation.

Exterior Illuminance Levels					
	Maintained Illuminance (fc)				
AREA	Horizontal Minimum @ grade	Horizontal Uniformity Average to Minimum	Vertical Minimum (1)	Vertical Uniformity Average to Minimum	Lighting Reference IES Lighting Handbook 10 th Edition
Bike Rack	2	4:1	0.5 (2)		Table 4.1 Cat H
Building Entrance	2.0 (canopy) 1.0 (open)	2:1	1.0	4:1	Table 22.2, High Activity, LZ2
Bus Stop	2	4:1	0.5 (2)		Table 4.1 Cat H
Open Parking Lot	0.6	4:1			Table 26.2, High Activity, LZ2 Table 4.1, Category D
Roadway	0.6 (6)	4:1			Section 26.2.14 Table 4.1, Category D
Walkway	0.4	4:1			Table 26.2, High Activity, LZ2 Table 4.1, Category C
Walkway Stairs and Ramps	0.6 (3)	5:1	0.2 (2)	10:1	Section 26.2.8, Table 34.2, High Activity; LZ2
Plazas	0.4	5:1	0.2 (2)	10:1	Table 34.2, High Activity; LZ2
Facades (4)			4.0	3:1	Table 26.2, High Activity; LZ2
Drive Under Canopy (Porte-Cocheres)	4.0	2:1	2.0 (2)	4:1	Table 22.2, High Activity; LZ2

Parking Garages (5)					
Basic	3.8	4:1	0.5 (2)		Table 4.1 Cat H
Ramps (day)	Basic X 2	4:1	Basic X 2		Section 26.2.5.1
Ramps (night)	Basic	4:1	Basic		Section 26.2.5.1
Entry/Exit (day)	Basic X 10	4:1	Basic X 10		Section 26.2.5.1
Entry/Exit (night)	Basic	4:1	Basic		Section 26.2.5.1

5.5.2. Uniformity:

5.5.2.1. The illuminance uniformity levels shall be based on the ratio of the average illuminance to the minimum illuminance in the calculation area. This ratio is a maximum and should not be exceeded. Lower uniformity ratios are acceptable.

5.5.3. Special Applications:

5.5.3.1. Sports Lighting: Exterior sports lighting shall be designed to meet current IESNA recommendations based on the specific application. Coordinate design criteria with Owner.

5.5.3.2. Parking Garages: Shall be designed to meet the controllability and lighting power density requirements of *ANSI/ASHRAE 90.1-2010*. Refer to Table 1 for specific illuminance and uniformity requirements.

5.5.4. Exterior Illuminance Table Notes:

5.5.4.1. Vertical illuminance measured at 5 feet above grade.

5.5.4.2. Vertical illuminance in at least two primary directions of circulation.

5.5.4.3. Illuminance at treads and landings.

5.5.4.4. Provide lighting reduction control in accordance with ASHRAE 90.1-2010

5.5.4.5. Refer to IESNA interior recommended illumination levels for parking ramp stairways and elevator lobbies.

5.5.4.6. Select roadways may require additional illumination due to pedestrian conflict. Coordinate requirements with University project manager.

5.5.5. Light Trespass:

5.5.5.1. Projects located at the edge of the campus shall be in compliance with the published light trespass requirements of the adjoining municipality. No other portions of the municipal ordinances shall apply to University projects.

5.5.5.2. The Owner may have project specific light trespass requirements near residence halls or light sensitive areas. Coordinate requirements with Owner.

5.5.6. Exterior Lighting Calculations:

5.5.6.1. Lumen Maintenance: Base Lamp Lumen Depreciation (LLD) on the manufacturer's estimated lumen maintenance at 100,000 hours of operation. The LLD may be adjusted for an average ambient nighttime temperature of 50 degrees F (10 degree C) based on manufacturer testing. The Luminaire Dirt Depreciation (LDD) factor shall be at least 5%.

5.5.6.2. Obstructions: Lighting calculations shall model any obstructions that may have an impact on illumination levels in the project area. Obstructions include trees, fences, retaining walls and architectural elements.

5.5.6.3. Calculation Grid: Calculation grids shall be selected to provide a reasonable sampling of the project area.

5.5.7. Exterior Lighting Design Submittals:

5.5.7.1. Design Professional to submit photometric lighting calculations and results tables for each calculation area.

5.5.7.1.1. Tables shall include maximum, average, and minimum illumination levels, average to minimum uniformity ratio, and lighting power density.

5.5.7.2. Include horizontal point by point plots as well as vertical foot candle levels at the property line and 15 feet beyond the property line. Include consideration adjacent lighting.

5.5.7.3. Calculation shall identify the fixture mounting heights.

5.5.7.4. Clearly note light loss factors.

5.5.7.5. Provide manufacturer's photometric data (IES file).

5.5.7.6. Compliance shall be reviewed and approved by the Owner at the conclusion of Schematic Design, Design Development, and Construction Document phases.

5.5.7.7. Title block with project name, project number, and date (track revisions).

5.5.7.8. Color boundaries with legend defining the lighting classification applied to each area within the site boundary. Legend stating required foot candles for each classification.

5.5.7.9. Model shall include existing lighting in the area and adjacent area (site and/or building) and all proposed lighting. Provide existing lighting schedule (building and site).

5.6. Exterior Lighting Controls:

5.6.1. All exterior lighting shall be controlled in accordance with the requirement of *ANSI/ASHRAE 90.1-2010*.

5.6.2. Exception: Due to the 24 hour nature of the campus and safety concerns, illumination levels for parking lots, walkways and building entrances shall not be reduced in accordance with the requirements of *ANSI/ASHRAE 90.1-2010* 9.4.1.7(c).

6. COMMUNICATIONS

6.1. General:

6.1.1. Telephone, Wired Network, and Wireless Network hardware shall be included within the project scope. Cost and quantity estimates shall be provided by ITS.

6.1.2. Telephone, Wired Network, and Wireless Network infrastructure shall be included within the project scope. Cost and quantity estimates shall be provided by Design Professional.

6.1.3. Wireless connectivity shall not replace wired connections, but rather is a supplement.

6.1.4. There exists a Utility Network separate from the ITS network, BAS, Fire Alarm, and Access Controls systems. The Utility Network cabinet shall be shown on the floor plans.

6.2. Telecommunication Pathways:

6.2.1. Refer to Section IV for information.

6.3. Grounding and Bonding:

6.3.1. Refer to Section IV for information.

6.4. Data and Voice Horizontal Infrastructure:

6.4.1. Refer to Section IV for information.

6.5. Fiber Optic and Copper Backbone and Riser Cable:

6.5.1. Refer to Section IV for information.

6.6. Outdoor Plant Fiber Optic Cable:

6.6.1. Refer to Section IV for information.

6.7. Copper:

6.7.1. Refer to Section IV for information.

6.8. CATV Distribution and Horizontal Infrastructure:

6.8.1. Refer to Section IV for information.

6.9. Audio Visual (A/V) Systems:

6.9.1. Refer to Section IV for information.

7. ELECTRONIC SAFETY AND SECURITY

7.1. Electronic Access Control and Security (AMAG):

7.1.1. General

7.1.1.1. Owner shall be involved in the planning and design of all AMAG projects.

7.1.1.2. Renovations and additions shall use the Owner's existing software license.

7.1.1.3. Identify Stairwell Fire Re-entry Requirements in the Door Sequence of Operations in the documents.

7.1.1.3.1. Provide card reader at Fire Alarm Control Panel or as directed by the Owner and Authority Having Jurisdiction.

7.1.1.4. Design Professional shall review condition of existing doors and hardware and shall advise the Owner of necessary or recommended replacements or upgrades.

7.1.1.5. Access Control Function shall be identified on the door schedule and access controls narrative. Use Access Control Function definitions included in this section.

7.1.1.6. Design Professional shall determine the impact on cable tray and conduit capacity during the Design Development stage of the project and shall review with Owner

7.1.2. Definitions:

7.1.2.1. Monitored: Utilizes door position switch, latch bolt monitor, and/or request to exit.

7.1.2.2. Controlled: Any monitored opening that utilizes electronic locking and unlocking.

7.1.3. Access Control Function Designations and Definitions:

7.1.3.1. RDR - Single Card Reader Entrance, Acceptable Exit: Single proximity card reader, electrically unlocking door hardware, request to exit, latch bolt monitoring, door position contacts.

7.1.3.2. DRDR – Dual Card Reader Entrance: Dual card reader (card in / card out), electrically unlocking door hardware, latch bolt monitoring, door position contacts.

7.1.3.3. HRDR – Hand Geometry Reader Entrance, Acceptable Exit: Hand geometry reader, electrically unlocking door hardware, request to exit, latch bolt monitoring, door position contacts.

7.1.3.4. ERDR – Hand Geometry and Card Reader Entrance, Acceptable Exit: Hand geometry reader and single proximity card reader, electrically unlocking door hardware, request to exit, latch bolt monitoring, door position contacts. Either reader allows access.

7.1.3.5. BRDR – Hand Geometry and Companion Reader Entrance, Acceptable Exit: Hand geometry reader and single proximity card reader, electrically unlocking door hardware, request to exit, latch bolt monitoring, door position contacts. Both readers required for access.

7.1.3.6. PEAE – Programmable Entrance Acceptable Exit: Electrically unlocking door hardware, request to exit, latch bolt monitoring, door position contacts. Unlocked via programming, no reader.

7.1.3.7. AEO – Acceptable Exit Only: Request to exit, latch bolt monitoring, door position contacts. Cannot be electrically unlocked.

7.1.3.8. EES – Emergency Exit with Sounder: Latch bolt monitoring, door position contacts, locally audible piezo sounder connected to access control system.

7.1.3.9. EEO – Emergency Exit Only: Latch bolt monitoring, door position contacts.

7.1.3.10. DCO – Door Contact Only: Door position contacts.

7.1.3.11. RRDR – Stairwell reentry doors with failsafe electrically unlocking locks, single card reader entrance, acceptable exit, request to exit, latch bolt monitor, door position contacts and key switch at fire panel to unlock all stairwell doors simultaneously.

7.1.4. Building / Space Security Level Definitions:

7.1.4.1. Security level designations correspond to internal University Security processes and protocols.

7.1.4.1.1. Definitions are provided to establish minimum security requirements.

7.1.4.1.2. Individual spaces within a building may have differing Security Levels. All spaces shall be reviewed with the Owner.

7.1.4.2. Level 1: Low Risk - Spaces are accessible during normal working hours and locked after hours. Exterior doors have alarms that register in the software and self-closers. Scheduled exterior doors have electronic locks. Occupants are responsible for security of interior doors.

7.1.4.3. Level 2: Moderate Risk – Spaces are locked when unoccupied. All items in Level 1, plus self-closers on all interior public corridor doors. Alarms may be required on some interior doors.

7.1.4.4. Level 3: Substantial Risk. All items in Level 2, plus electronic locks/card readers and self-closers on selected interior doors, card access on elevators to restricted floors, emergency lock down buttons on large capacity rooms. Door alarms may also be local, audible alarms.

7.1.4.5. Level 4: High Risk – Building and spaces have restricted access. All items in Level 3, plus intrusion detection system, card reader on main door to exit, some areas require 2-factor authentication to enter.

7.1.4.6. Level 5: Extremely High Risk – Building and spaces have restricted access. All items in Level 4, plus video surveillance system (only required at entrances and exits of restricted areas) and 2-factor authentication

7.1.5. Openings, General:

7.1.5.1. When the entry door into a space has access control functionality, all other doors into that space shall be electronically monitored. If electronic access is added to a room with multiple doors, all doors shall use AMAG.

7.1.5.2. Each opening utilizing request to exit function shall be wired to an individual reader port on a central door controller.

7.1.5.3. Openings with multiple doors shall have a single card reader controlling a single opening.

7.1.5.4. Any opening with a reader shall have keyed override.

7.1.5.5. Access control readers shall control only one (1) opening.

7.1.5.6. Secure side door operator actuator shall only be active when door is electrically unlocked.

7.1.6. Openings, Exterior:

7.1.6.1. Exterior doors:

7.1.6.1.1. Shall be controlled.

7.1.6.1.2. Shall have Fail Secure unlocking lever handles, powered by the battery back-up system in the Access Control System, as required.

7.1.6.1.3. Shall be unlocked by same fire entry card reader that unlocks stair well doors for reentry onto building levels from stairwells.

7.1.6.1.3.1. Card reader shall be located next to fire alarm panel or in the fire command center.

7.1.6.1.3.2. The active credential for this card reader to be kept in the building Knox Box.

7.1.6.1.4. Overhead doors shall be monitored, less latch bolt monitor.

7.1.6.1.5. Main entrances shall be monitored.

7.1.6.1.5.1. One (1) door shall be controlled via reader(s).

7.1.6.1.5.2. Remaining doors to be exit only.

7.1.6.2. Roof and Terrace doors:

7.1.6.2.1. Unoccupied roof or terrace, or with occupancy loads less than 50, shall be mortise locks with deadbolts.

7.1.6.2.1.1. Deadbolts shall be locked / unlocked by key from either side and include deadbolt monitor switch.

7.1.6.2.1.2. Door shall include door position switch, furnished and installed by Access Control supplier.

7.1.6.2.2. Assembly occupancy roof or terraces with occupancy loads of more than 50, are to swing into the building.

7.1.6.2.2.1. Doors shall have an exit device with latch bolt monitor switch, to allow free egress from the roof or terrace.

7.1.6.2.2.2. Door shall include door position switch, furnished and installed by Access Control supplier

7.1.6.2.3. Roof and Terrace doors shall use Yale CRCN 8860-2 FL DBM or equivalent.

7.1.7. Openings, Interior:

7.1.7.1. Main entrances into general assignment classrooms and auditoriums shall be controlled by reader(s).

7.1.7.2. Document requirements:

7.1.7.2.1. The Design Professional shall develop a Sequence of Operations narrative and include sequence in documents.

7.1.7.2.2. The documents shall include an access control door schedule for all monitored and controlled doors.

7.1.7.2.2.1. Schedules shall identify the door/room served, Door Function, list of device(s) on opening, special functionality, and location.

7.1.7.2.2.2. Door function to be identified according to the Access Control Function Designations and Definitions listed above.

7.1.7.3. Openings into General Assignment Classrooms with occupancy of fifty (50) or more and auditoria with occupancy of fifty (50) or more shall have auto-lock and auto-unlock features through the access control system.

7.1.7.4. Spaces shall have emergency locking pushbutton switches located near the lectern.

7.1.7.5. A single emergency pushbutton shall operate all doors.

7.1.7.6. The Access Control Head-end equipment shall be located in the ITS Equipment Room and shall have:

7.1.7.6.1. 120 volt emergency power circuit, direct-wired into a Access Control panel. A circuit from an ITS electrical panel may be used.

7.1.7.6.2. All lock power supplies shall be direct-wired from a dedicated 120 volt circuit.

7.1.7.7. Entry door into space shall have an RDR function.

7.1.7.8. Equipment room shall have ¾ inch sanded walls, one (1) side fire-rated plywood with a painted finish. Plywood to be provided by General Contractor.

7.1.7.9. Dedicated Ethernet port shall be located on wall adjacent to the equipment.

7.2. Video Surveillance Systems:

7.2.1. Video surveillance systems require Owner approval.

7.2.2. Video surveillance shall be installed at entrances and exits to and from building / space(s) with security level designated as level 5: extremely high risk. Refer to *Electronic Security and Safety* for more information.

7.2.3. Video recording for IP cameras shall be on a server managed and maintained by ITS.

7.2.4. The video license for each camera shall be purchased as part of the project.

7.2.5. Design Professional shall indicate camera and equipment locations on Construction Documents.

7.3. Security Alarm/Intrusion Alarm Systems:

- 7.3.1. Shall be approved by Department of Public Safety.
- 7.3.2. Shall utilize AMAG or a system approved by Department of Public Safety.
- 7.3.3. If AMAG is used, the area that is protected by the security system shall be set up as its own company within the software.

7.4. Fire Alarm and Detection Systems:

7.4.1. General

- 7.4.1.1. Refer to *BUILDING FIRE ALARM SYSTEM DETAILS* in Appendices for existing building system manufacturer and model.
- 7.4.1.2. AHU shut-down circuit shall automatically reset after FACP is reset.
- 7.4.1.3. Refer to UI Fire Safety Department Guide Specifications.
- 7.4.1.4. Any proposed changes affecting the fire alarm system require Owner approval.

7.4.2. Fire Alarm Control Panel (FACP):

7.4.2.1. General

- 7.4.2.1.1. Systems shall include capacity for handling a minimum of 20 percent more circuits and alarm causing and signaling devices.
- 7.4.2.1.2. A separate Signaling Line Circuit shall be installed per floor.
- 7.4.2.1.3. FACP Bypass Switches:
 - 7.4.2.1.3.1. Access Level 3:
 - 7.4.2.1.3.1.1. City disconnect (for both alarms and troubles)
 - 7.4.2.1.3.1.2. Audio by-pass.
 - 7.4.2.1.3.1.3. Visual circuit by-pass.
 - 7.4.2.1.3.1.4. Electronic door latches / locks.
 - 7.4.2.1.3.1.5. Air handler by-pass.
 - 7.4.2.1.3.2. Access Level 1:
 - 7.4.2.1.3.2.1. Dampers by-pass.
 - 7.4.2.1.3.2.2. Elevator by-pass.
 - 7.4.2.1.3.2.3. Fire Door by-pass.

7.4.2.1.3.3. Provide separate fan shutdown switches for each air handler.

7.4.2.1.3.4. Provide smoke purge by-pass where required.

7.4.2.2. System Resets:

7.4.2.2.1. A fire alarm resets shall require a security level access level of 3.

7.4.2.2.2. Equipment that has been bypassed in software shall not change state-of-condition during a reset.

7.4.2.3. Voice Control Point Switches:

7.4.2.3.1. "All Clear" message.

7.4.2.3.2. "Weather Alert" message.

7.4.2.3.3. "All Speakers" talk switch.

7.4.2.3.4. Audio zone momentary contact switches to manually select the following individual speaker circuits:

7.4.2.3.4.1. Each Elevator Car

7.4.2.3.4.2. Each stairwell, connected to adjacent floor zone.

7.4.2.3.4.3. Each building level and approved fire zone.

7.4.2.3.4.4. Outside speakers.

7.4.2.4. LED Lights:

7.4.2.4.1. Only fire alarm zone lights and device type lights shall annunciate with a red LED.

7.4.2.4.2. Device type, address, and exact location shall annunciate on the digital readout.

7.4.2.4.3. Any bypass, disable or trouble condition shall annunciate with an amber LED, a trouble sounder and annunciate on the digital readout.

7.4.2.4.4. When speakers or phone circuits are active, green LEDs shall annunciate the appropriate speaker circuits.

7.4.2.4.5. Individual speaker circuits shall be capable of being activated without a pass code.

7.4.2.4.6. Individual speaker control shall be possible with loss of A/C power.

7.4.2.5. Communications:

7.4.2.5.1. Digital Alarm Communicating Transmitter (DACT) shall be installed within fire panels. New installations require fiber optic network connection.

7.4.2.5.2. Send the following signals to The University of Iowa Police Dispatch Office:

7.4.2.5.2.1. Alarms (Zone 1).

7.4.2.5.2.2. Troubles (Zone 3).

7.4.2.5.2.3. Supervisory (Zone 4).

7.4.2.5.3. The DACT trouble signal shall track the FACP trouble piezo.

7.4.2.5.4. Provide a ¾ inch conduit with pull string from the fire alarm control panel to designated telephone switch room.

7.4.2.5.5. Communication for FACP shall have two (2) copper lines and one (1) 6-strand fiber optic line run from the telecommunications room to the main FACP panel box.

7.4.2.5.6. Radio repeaters shall be installed as required by local fire department and AHJ.

7.4.2.6. Audio Systems:

7.4.2.6.1. Amplifiers shall be 100-watt minimum, except in dual-channel applications where the elevator channel may use 25-watt amplifiers.

7.4.2.6.2. Amplifiers shall have redundant back-up amplifier(s) that automatically transfer.

7.4.2.6.3. Amplifier sizing calculations:

7.4.2.6.3.1. One (1) watt per interior speaker (in restrooms and small rooms set taps to ¼ watt).

7.4.2.6.3.2. Two (2) watts per outside and mechanical room speaker.

7.4.2.6.3.3. Each audio amplifier shall be sized to include 20 percent spare capacity for future connection of audio speakers.

7.4.2.7. Minimum Sprinkler Systems Monitoring Points:

7.4.2.7.1. Fire pump items include pump running, fire pump power, and fire pump phase reversal.

7.4.2.7.2. Jockey pump power.

7.4.2.7.3. Water flow switches by fire zone with separate address for each device.

7.4.2.7.4. Tamper switches by fire zone with separate address for each device.

7.4.2.8. All hardware devices and software for off-line programming, complete with manuals and software files shall be required to be turned over to the Owner.

7.4.3. Releasing Panels:

7.4.3.1. The main FACP shall not be used as a releasing panel for special hazard or alternative suppression systems.

7.4.3.2. Key pad controls shall be within visual distance of releasing agent location.

7.4.3.3. The main FACP may be used for releasing sprinkler pre-action or dry systems.

7.4.4. Initiation Devices:

7.4.4.1. General

7.4.4.1.1. Comply with NFPA 80 for smoke detector location and quantity.

7.4.4.1.2. End-of-line resistors shall be located at the device that is farthest away from the panel or module.

7.4.4.1.3. Detectors shall be placed so that they can be tested directly from the floor level

7.4.4.1.4. Each device shall have a separate address.

7.4.4.1.5. Ceiling mounted applications:

7.4.4.1.5.1. Shall be mounted to have minimum 80 percent surface coverage.

7.4.4.2. Device Locations:

7.4.4.2.1. Photo Electric Smoke Detectors shall be located in the following spaces:

7.4.4.2.1.1. Corridors

7.4.4.2.1.2. Custodial Spaces

7.4.4.2.1.3. IT Spaces

7.4.4.2.1.4. Libraries

7.4.4.2.1.5. Storage rooms

7.4.4.2.1.6. Laboratories (Refer to *Heat Detectors*, below)

7.4.4.2.1.7. Mechanical rooms (except high temperature areas)

7.4.4.2.1.8. Elevator Lobbies

7.4.4.2.2. Heat Detectors shall be located in the following spaces:

7.4.4.2.2.1. Copy centers, vending rooms, kitchens

7.4.4.2.2.2. High temperature mechanical rooms

7.4.4.2.2.3. Laboratories, with written approval from Owner.

7.4.4.2.3. Duct Smoke Detectors shall be located in the following spaces:

7.4.4.2.3.1. Supply Air Handlers greater than 2,000 CFM.

7.4.4.2.3.2. Return Air Handlers greater than 15,000 CFM or when AHU serves more than one (1) floor.

7.4.4.2.4. Pull Stations shall be located in the following spaces:

7.4.4.2.4.1. At exits leading to the exterior.

7.4.4.2.4.2. At stairwell exits on each floor.

7.4.4.2.4.3. As required by NFPA and fire code official reviews.

7.4.4.2.4.4. Maximum distance between pulls shall be less than 200 feet.

7.4.4.3. Smoke Detectors:

7.4.4.3.1. Shall provide a solid red LED on the detector or base when the device is in the alarm condition.

7.4.4.3.2. Smoke detectors shall be low-profile analog.

7.4.4.4. Duct Detectors:

7.4.4.4.1. Duct detectors shall be installed when the conditions listed in NFPA 72E and NFPA 90A-14, Sec. 4-2 through 4-4 are met.

7.4.4.4.2. Duct smoke detectors shall be used only in duct larger than 12 inches in diameter.

7.4.4.5. Heat Detectors:

7.4.4.5.1. Heat detectors shall be restorable and provide a red LED on the detector or base when the device is in the alarm condition.

7.4.4.5.2. Heat detectors shall be analog addressable unless high temperature devices.

7.4.4.5.3. All detectors shall be magnet-testable.

7.4.4.6. Beam Detectors:

7.4.4.6.1. If beam detectors are proposed, design shall be reviewed by University of Iowa - Fire Safety for appropriate application, maintenance, and accessibility.

7.4.4.6.2. Provide a beam detector test switch for each detector.

7.4.4.6.3. All beam detectors shall have a transmitter and a mirror, no receiver.

7.4.4.6.4. All beam detectors shall have a key or magnet test station.

7.4.5. Annunciation Devices:

7.4.5.1. General

7.4.5.1.1. Signaling devices shall be placed so that they shall provide a sound of 15 dBA above the ambient noise level in all areas.

7.4.5.1.2. Place outside, weatherproof speakers at all major entrances.

7.4.5.1.3. Visual devices shall be a single combo unit when both devices are required.

7.4.5.1.4. Message Boards shall be used only in ADA selected areas.

7.4.5.2. Strobe Devices:

7.4.5.2.1. Strobe intensity shall be determined by ADA requirements.

7.4.5.2.2. All strobes within line of site shall be synchronized.

7.4.5.2.3. Each strobe circuit shall be capable of being individually controlled in software and shall be sized to include 20 percent spare capacity for future connection of strobes.

7.4.5.2.4. Each fire floor and fire zone shall have individual strobe circuit control.

7.4.6. Other Devices:

7.4.6.1. General

7.4.6.1.1. All devices being controlled by the fire alarm control panel (i.e., dampers, doors, etc.) shall be operated by the use of control modules and not by relay-type devices in detector bases or relay cards.

7.4.6.1.2. Auxiliary equipment shall not be directly connected to an addressable control module.

7.4.6.1.3. 24 volt DC power shall be supervised at each device. Each control module shall activate a supervised 24 volt DC relay with red LED when in the alarm condition.

7.4.6.2. Smoke Dampers:

7.4.6.2.1. Smoke damper indicator lights shall be Select-A-Switch, Model SL53413-6-BG.

7.4.6.2.2. Place damper indicator lights in corridors whenever possible. Graph displays are not allowed.

7.4.6.3. Door Hold Open:

7.4.6.3.1. Door magnets shall be powered by 24 volt power source other than the FACP.

7.4.6.3.2. Powering down the FACP shall not automatically close the fire doors. Door hold-opens shall not close on loss of power to the FACP.

7.4.6.3.3. Electronic door hold-opens shall be 24 volt DC.

7.4.6.3.4. Electronic door hold-opens with built-in smoke detectors shall not be allowed.

7.4.6.4. Building Automation Controls:

7.4.6.4.1. The fire alarm system shall provide dry contacts for Direct Digital Control (DDC) system to control HVAC or purge system during alarm.

7.4.6.5. Fire Shutters:

7.4.6.5.1. Fire shutters shall not be used without written approval from Owner. If used, shutters shall be readily-accessible and motorized, with remote push-button to re-open the shutter.

7.4.7. Raceways, Boxes, and Cables:

7.4.7.1. Each floor shall have a separate conduit feed.

7.4.7.2. All fire alarm devices, junction and pull boxes shall be easily accessible without removing light fixtures, equipment, conduits, junction boxes or other items.

7.5. Area of Refuge Phone:

7.5.1. Refer to Section IV for information

7.6. Automatic External Defibrillator (AED) and Bleeding Control Kit Station:

7.6.1. AED are optional and shall be approved by the Department.

7.6.2. UI Department of Public Safety shall be notified when an AED will be included in a project.

7.6.3. AED cabinet shall be sized to allow for storage of AED and a Bleeding Control kit.

END OF SECTION III – GENERAL DESIGN STANDARDS

SECTION IV - OUTLINE SPECIFICATIONS AND DETAILS

This section contains information to be used by Design Professionals in the preparation of project specifications.

The criteria represent minimum levels of performance, quality and/or standardization that shall be enhanced by the Design Professional and made project specific.

I. GENERAL

The following information is provided as a general guideline in establishing project specific requirements.

1. ACCESSIBILITY

- 1.1. Adequate and safe detour(s) shall be provided when sidewalks and/or building entrances are closed and blocked.
 - 1.1.1. Use audible and visual signage to give advance notification of closures ahead and inform pedestrians of alternate accessible routes.
 - 1.1.2. On signage, use terms such as “universal” and “accessible” and the International Symbol of Accessibility. The terms “ADA” or “handicap” shall not be used.
 - 1.1.3. Locate accessible parking signs where they are not obscured by parked vehicles, trees, or other obstructions and as required by Iowa Administrative Code, Chapter 18.

2. COMMISSIONING

- 2.1. For commissioning requirements, please refer to the Owner’s Document 01 91 13, Commissioning, found at the following link: <http://www.facilities.uiowa.edu/pdc/consultants/?submenuheader=2>

3. ENERGY

- 3.1. Refer to Section III for information.

4. ENVIRONMENTAL COMPLIANCE

4.1. Hazardous Materials:

4.1.1. Polychlorinated Biphenyl (PCB):

- 4.1.2.1. PCB containing ballasts shall not be discarded.
- 4.1.2.2. The Constructor shall remove PCB containing ballasts, containerize on site, and notify Owner for pickup.

4.1.2. Mercury:

- 4.1.2.1. The Constructor shall remove mercury containing lamps (including fluorescent, high intensity discharge (HID), and neon/argon), containerize on site, and notify Owner for pickup.
- 4.1.2.2. Lamps containing mercury shall not be discarded.

4.1.3. Mold:

4.1.3.1. Notify Owner if the presence of mold is discovered or suspected.

4.1.3.2. Reference EPA Publication 402-K-01-001, Mold Remediation in Schools and Commercial Buildings, September 2008.

4.1.4. Acid:

4.1.4.1. Underground acid neutralization tanks shall not be used.

5. DEMOLITION

5.1. Prior to completion of final Review Documents, Owner shall identify material removed by demolition which is to remain on property.

5.2. Demolition materials other than those required to complete the construction project and designated for return to Owner, shall become the property of the Constructor and shall be removed from the site and off Owner's property in accordance with the Owner's instructions. The material shall be disposed of in a legal manner.

5.3. All asbestos materials shall be removed prior to general demolition.

5.4. Computer-based systems with removed electronic components shall be deprogrammed / decommissioned prior to removal of electrical / IT.

II. CIVIL

The following information is provided as a general guideline in establishing Civil Engineering project specific requirements.

1. GENERAL

1.1. Utility Locates Tracer Wire:

1.1.1. All tracer wire shall have HDPE insulation intended for direct bury, color coated per APWA standard and below for the specific utility being marked.

1.1.1.1. Steam, Condensate = Yellow

1.1.1.2. Communication = Orange

1.1.1.3. Water = Blue

1.1.1.4. Chilled Water = Purple

1.1.1.5. Sewer = Green

1.1.1.6. Electric = Red

1.1.2. Tracer wire shall be #12 AWG copper wire.

1.1.3. Tracer wire splices are not allowed; all runs will be home runs.

1.2. Terminal Boxes:

1.2.1. Innerduct shall be brought up into valve box, extending twelve inches up from the bottom of the valve box.

1.2.1.1. Innerduct must be capped during installation to keep gravel and dirt out of innerduct.

1.2.2. Tracer wire shall be brought to the surface at end of pipe or at intersection of main and service line next to a manhole, valve, vault wall, or building wall in a standard East Jordan 8550 valve box.

1.2.2.1. Leave sufficient slack in wire coiled up in valve box to extend a minimum of two feet above final grade.

1.2.2.2. Clean gravel shall fill the bottom 6 inches of terminal box pipe and shall extend an additional 12 inches below the bottom of the valve box to facilitate water drainage.

1.2.2.3. Terminal box cover shall be marked 'UI Locates.'

1.3. Grounding of Tracer Wire:

1.3.1. Tracer wire shall be properly grounded at all ends.

1.3.2. Grounding shall be achieved by use of a 4-foot drive-in copper or brass grounding rod. Ground wire shall extend up through the valve box, reaching at least 24 inches above grade.

1.4. Connections:

1.4.1. Tracer wires and ground wire shall be terminated in an Erico Intersystem Bonding Termination Bar, or equivalent.

1.5. Testing:

1.5.1. All new tracer wire installations shall be located using typical low frequency (512 Hz) line tracing equipment, witnessed by the contractor, engineer and Owner prior to acceptance of ownership.

1.5.2. This verification shall be performed upon completion of rough grading and again prior to final acceptance of the project.

1.5.3. Continuity testing in lieu of actual line tracing shall not be accepted

2. SUBSURFACE INVESTIGATION

2.1. For purposes of identifying and measuring rock, which may be encountered during classified excavation, the following definitions shall be used.

2.1.1. The definitions are based on minimum equipment requirements, which shall be equaled or exceeded by the Constructor.

2.1.2. If the Constructor chooses to use equipment of lesser size, capacity, or power than specified for excavating purposes, the Constructor shall assume all responsibility for the cost and method of removal of material resembling rock, which cannot be removed with their equipment.

Therefore, contract unit prices submitted by the Constructor for rock excavation shall only be applicable if the Constructor's equipment equals or exceeds equipment requirements specified below:

2.1.3. Open Excavation:

2.1.3.1. Rock excavation in open excavations shall include removal and disposal of any sound and solid mass, layer or ledge, regardless of origin, which cannot be effectively loosened or broken down in multiple passes in opposite directions.

2.1.3.2. A late model crawler-type tractor rated with at least 170 net flywheel horsepower, equipped with a hydraulic ripper with one (1) digging point of standard design and size, and with tractor operating in low gear.

2.1.4. Pit and/or Trench Excavation:

2.1.4.1. Rock excavation in trenches and pits shall include removal and disposal of any sound and solid mass, layer or ledge, regardless of origin, which cannot be excavated and removed by a 3/4 cubic yard capacity hydraulic backhoe, rated at not less than 90 net flywheel horsepower, and 30,000 pound drawbar pull.

2.1.5. Drilled Pier Excavation:

2.1.5.1. Weathered rock/shale pier excavation is defined as any material that cannot be drilled or removed with conventional earth augers and requires the use of rock augers for drilling.

2.1.5.2. Rock excavation is defined as any sound and solid mass, layer or ledge, regardless of origin, which cannot be drilled with conventional earth augers or under reaming tools and requires alternate drilling methods for removal, such as special core barrels, air tools, and/or other methods of rock excavation. The minimum size drill rig is rated positive crowd force of 37,000 pounds and a continuous torque rating of 25,000 foot pounds.

2.2. Backfill and subgrade compaction shall conform to Geotechnical Engineer's recommendations. For projects without a geotechnical report, the following criteria shall be specified:

2.2.1. Bearing soil for spread footings, pad footings, and slabs on grade shall be compacted to a minimum of 95 percent of maximum density at optimum moisture content (-2 percent to +4 percent) standard proctor. Excavation to undisturbed soils is not considered adequate.

2.2.2. Backfill for foundations shall be compacted to a minimum of 88 percent and a maximum of 92 percent of maximum density under landscaped areas and a minimum of 95 percent of maximum density under other areas at optimum moisture content (+/-2 percent) standard proctor.

2.2.2.1. Backfill shall be installed in no more than 12 inch lifts.

2.2.2.2. Specific soils or situations may require smaller lifts.

2.2.3. Backfill for trenches shall be well graded, granular materials ¾ inch to 1 inch clean material vibrated in lifts. Provide sand envelope around pipe.

2.3. Proof rolling shall be specified for areas to be paved and shall conform to the Geotechnical Engineer's recommendations. For projects without a Geotechnical Engineer's recommendation, the following criteria shall be specified:

2.3.1. All areas to be paved (that are of sufficient size to permit the required equipment) shall be proof rolled prior to placement of the aggregate base course.

2.3.1.1. Proof rolling shall consist of passing/driving a loaded, 20-ton, tandem dump truck over the prepared subgrade soil with a maximum allowable displacement of 1 inch.

2.3.1.2. Any areas that displace more than 1 inch shall be compacted until this criterion is met, or those areas may be excavated and backfilled with compacted Type 1 Aggregate for Base.

2.3.1.3. All proof rolling shall be performed in the presence of Owner.

3. SITE SURVEY

3.1. Refer to Section III for information.

4. LANDSCAPING

4.1. General:

4.1.1. Owner shall be notified prior to grade changes during backfilling.

4.1.2. Owner shall be notified a minimum of 24-hours prior to the establishment of the "rough grade" (existing grade prior to application of top soil or growing medium for turf or other plants) to allow the opportunity for hand-holes, valve covers, manholes, and other fixtures to be located and reviewed.

4.1.3. Prior to soil arriving to site, Owner shall approve the physical soil samples and percolation test results.

4.1.4. Soil or growing medium for turf or plants shall be examined and approved by Owner.

4.1.5. Projects shall include all necessary maintenance, including water, weeding, etc. for the first sixty (60) calendar days after installation or until substantial completion, whichever is later.

4.1.6. Plant material list, including cultivar, shall be included in the Operations and Maintenance Manuals.

4.2. Soils:

4.2.1. The prevention and or alleviation of soil compaction are crucial to plant success. Constructor shall limit the use of heavy equipment to hardscape areas whenever possible. Allow wet areas to dry before tilling or grading.

4.2.2. Prior to soil delivery to project site, Owner shall approve soil medium for trees, shrubs, plant beds, and lawns. Approval to include:

4.2.2.1. Minimum sample size – 5 gallon bucket.

4.2.2.2. Test results from Iowa State University (refer to 4.2.3 Topsoil Testing)

4.2.3. Soil depth minimums shall be:

4.2.3.1. Lawn: 6 inch amended top soil.

- 4.2.3.2. Plant bed: 18 inch amended top soil.
- 4.2.3.3. Tree planting: 36 inch amended top soil.
- 4.2.3.4. Bio-Infiltration: 18 inch blended mixture of construction sand and organic compost.
- 4.2.4. Grading:
 - 4.2.4.1. Notify Owner prior to grade changes, start of backfill, and the establishment of rough grade.
 - 4.2.4.2. Final grade of planting beds and small turf areas shall be done by hand to avoid compaction and ensure all debris and clods over 1 inch are removed. Large scale seeding or sodding projects may be graded using small tractors, gills, etc.
 - 4.2.4.3. Notify Owner upon completion of final grade. Constructor shall not install planting material or turf until final grade has been approved by Owner.
- 4.2.5. Topsoil Testing:
 - 4.2.5.1. Constructor shall have a sample of all imported topsoil tested by Iowa State University. The results of the soil analysis shall be provided to Owner prior to incorporation of the topsoil.
 - 4.2.5.2. Results must fall within the Iowa State University recommended guidelines for lawns, flowerbeds, or tree and shrub beds. Submit results to Owner for review.
 - 4.2.5.3. Schedule test a minimum of 6 weeks prior to allow for processing and review by Owner.
- 4.2.6. Tilling:
 - 4.2.6.1. Excavated areas shall be backfilled with 8-12 inches of topsoil. Subsoil shall be tilled and blended with topsoil layer to avoid sharp transitions in the soil profile.
 - 4.2.6.2. Unexcavated areas to be planted or seeded shall be tilled to a depth of 4 to 6 inches before incorporating topsoil or other amendments.
 - 4.2.6.3. Do not till within the drip line of existing trees.
- 4.2.7. Erosion Control:
 - 4.2.7.1. Hydromulch with tackifier shall be applied at a minimum of 2500 pounds per acre. Application shall be in accordance to the manufacturer's guidelines.
 - 4.2.7.2. Erosion Control Matting shall contain only bio-degradable netting. Mats and matting that contain Polypropylene netting shall not be used.
- 4.2.8. Percolation Testing:
 - 4.2.8.1. Constructor to perform Percolation Test in accordance to Iowa Code, Chapter 69, Appendix B, "Percolation Test Procedure."

- 4.2.8.2. In-place infiltration tests shall be at rate of one (1) test per each plant bed, tree planting location, or as determined by Owner.
- 4.2.8.3. Owner may direct additional testing in locations subject to compaction or adverse Constructor operations.
- 4.2.8.4. Placed planting soils exhibiting non-compliant percolation values shall be removed or restored to compliant conditions.
- 4.2.8.5. Percolation rates must meet or exceed minimum 1 inch per hour, per Iowa Code, Chapter 69.
- 4.2.8.6. Owner and Design Professional will evaluate possible solutions for proper subgrade drainage should test results not meet specified standards.

4.3. Plantings:

4.3.1. Trees and Shrubs:

4.3.1.1. Tree Pit Configurations:

- 4.3.1.1.1. Tree pits should be as large as possible to allow for ample growing space for tree roots and crown.
- 4.3.1.1.2. Minimum tree pit size shall be 5 feet by 10 feet by 3 feet deep with a soil volume of 150 cubic feet.
- 4.3.1.1.3. Tree pits shall be continuous for group plantings.

4.3.2. Constructor shall stake all plant locations prior to plant installation. The Owner shall review and approve all locations prior to planting.

4.3.3. All baskets, burlap, containers, wires, twine, etc. shall be completely removed from all plant material prior to planting. Refer to *LANDSCAPING PLANTING DETAILS* in Appendices.

4.3.4. Proper planting depth requires the root flare above finished grade. Specifications shall incorporate language and details to insure proper planting depth.

4.3.5. Landscape plant materials shall be in accordance with the American Association of Nurserymen's Standards. The Owner shall review and approve all plant materials prior to installation.

4.3.6. Planting Schedule:

4.3.6.1. Trees, Shrubs, and Perennials:

- 4.3.6.1.1. Plant Materials shall not be installed in July or August.
- 4.3.6.1.2. Oak varieties shall only be planted between April 1 and May 31.

4.3.6.2. Turf shall be installed between April 15 and June 15.

4.4. Landscape Furniture and Fixtures:

4.4.1. All site furniture shall be surface-mounted on concrete.

4.4.2. Bicycles:

4.4.2.1. Bicycle racks shall be surface-mounted. Install 24 to 30 inches from surrounding wall or object.

4.4.3. Benches:

4.4.3.1. Refer to Section III for information.

4.4.4. Recycling and Landfill Receptacles:

4.4.4.1. Receptacle shall be from Landscape Forms.

5. ROADWAYS, PARKING LOTS, AND WALKWAYS

5.1. General:

5.1.1. Refer to Section III for information.

5.2. Roadways:

5.2.1. Asphalt and Portland Cement Concrete Paving:

5.2.1.1. Asphalt/Portland cement concrete pavement shall be designed according to the following guidelines:

5.2.1.1.1. Roadways, rigid and flexible shall follow AASHTO Guidelines for the Design of Pavement Structures.

5.2.1.1.2. Parking Lots

5.2.1.1.2.1. Rigid - Portland Cement Association

5.2.1.1.2.2. Flexible - The Asphalt Institute

5.2.1.1.3. Walkways shall have a minimum compressive strength of 4000 psi for twenty-eight (28) days.

5.2.1.1.4. Exposed concrete, including precast concrete, shall be air entrained.

5.2.1.2. Asphalt surfaced parking lots shall have a minimum cross section of 3 inches of asphalt surface prime coat, 6 inches of crushed stone Type 1 aggregate for base, and an underlayment of geotextile fabric.

5.2.1.3. Concrete surfaced parking lots shall have a minimum cross section of 6 inches of concrete and 4 inches of Type 1 aggregate for base. The concrete shall be Portland cement concrete with a heavy broom finish. All joints shall be shown on the plans and shall be sealed with traffic-grade caulking.

- 5.2.1.4. Concrete strengths shall be specified in accordance with actual requirements. Concrete mix shall be specified with minimum cement content, as well as maximum water/cement ratio.
- 5.2.1.5. Fibers (non-asbestos) may be used in addition to steel to control shrinkage cracking.
- 5.2.1.6. Design Professional shall specify inspection and testing requirements and shall include procedures for evaluation of test data.
 - 5.2.1.6.1. The Owner shall retain services of a Testing Firm.
 - 5.2.1.6.2. Constructor shall be responsible for scheduling the tests. Constructor shall be required to notify the Owner a minimum of 48 hours prior to all placement of concrete.
 - 5.2.1.6.3. Specifications shall require strength, air entrainment, temperature, and slump tests, and shall indicate allowable limits for each measure.
 - 5.2.1.6.3.1. Strength tests shall require 4 cylinders (three (3) shall be broken and one (1) spare).
 - 5.2.1.6.3.2. Test results shall be sent directly to the Constructor, Architect, and the Owner, as specified.
 - 5.2.1.6.4. Concrete shall be tested at the minimum rate of one (1) test for the first 25 cubic yards (CY) placed each day and one (1) test for each additional 50 CY placed.
 - 5.2.1.6.4.1. Concrete may be tested more often at the discretion of the Owner.
 - 5.2.1.6.4.2. Test data from concrete cylinder breaks shall be evaluated using procedures of the American Concrete Institute (latest edition of ACI 214) to determine if the compressive strength of the concrete tested is acceptable.
- 5.2.1.7. All concrete walks and drives shall be constructed on a minimum of 4 inches of compacted, crushed, stone base course. Gradation of the crushed stone shall be as required for Type 1 aggregate.
- 5.2.1.8. Sand shall be from local sources meeting ASTM C-144 for mortar and ASTM C-33 Size 67 for concrete.
- 5.2.1.9. Driving surface pavement patches for utility cuts shall include 8 inches of concrete with #4 transverse bars (to the patch centerline) at 18 inch maximum centers and two (2) #4 longitudinal bars.
 - 5.2.1.9.1. Patch shall extend 1 foot minimum outside the trench.
 - 5.2.1.9.2. Patch surface shall be concrete with abutting concrete paving or 2 inches of asphaltic concrete/tack coat with abutting asphalt surface.
- 5.2.1.10. Joints and Concrete Flatwork:

- 5.2.1.10.1. Expansion joints shall be installed to provide for thermal expansion of concrete pavements.
- 5.2.1.10.2. Generally expansion joints shall be provided at the PC and PT of curves (where the deflection angle is greater than 30E) and intersections.
- 5.2.1.10.3. If required for load transfers, expansion joints shall be detailed with dowel bars to allow load transfer and expansion of the concrete slabs.
- 5.2.1.10.4. Non-extruding expansion joint material shall be used with expansion joints.
- 5.2.1.10.5. Portland cement concrete flatwork shall be isolated from manholes, existing walls, etc. by use of expansion joints.
- 5.2.1.10.6. Contraction joints shall be tooled during finishing or saw cut within 18 hours of concrete placement.
- 5.2.1.10.7. Construction joints shall be located at expansion joint locations wherever possible. Construction joints at other locations shall be keyed.
- 5.2.1.10.8. All expansion joints on Institutional Roads shall be sealed with traffic grade, non-asphalt, non-extruding sealant.
- 5.2.1.10.9. Joint spacing and joint detail shall be shown on the drawings.

5.2.1.11. Parking Lot Striping:

- 5.2.2. Paint colors shall be white for general lot striping, yellow for no parking areas, and blue for accessible spaces and areas. Lead-bearing substance paints are prohibited.

5.3. Parking Lots:

- 5.3.1. Refer to Section III for information.

5.4. Walkways:

- 5.4.1. Detectable warning plate (truncated dome) shall be cast iron, factory painted "brick red."
- 5.4.2. Acceptable manufacturers:
 - 5.4.2.1. Neenah Foundry Co.
 - 5.4.2.2. East Jordan Iron Works

6. TEMPORARY TRAFFIC CONTROL

6.1. General:

- 6.1.1. Refer to Section III for information.

6.2. Vehicular Traffic:

- 6.2.1. Refer to Section III for information.

6.3. Pedestrian Traffic:

- 6.3.1. Refer to Section III for information.

7. SANITARY SEWER

7.1. General:

- 7.1.1. Piping shall have sand pipe bedding and envelope. Trench backfill shall be IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.
- 7.1.2. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.
- 7.1.3. Backfill material shall be placed in continuous layers not exceeding 8 inch in compacted depth.
- 7.1.4. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.
- 7.1.5. Install warning tape 12 inches to 18 inches above piping.

7.2. Piping:

- 7.2.1. The minimum service line size shall be 6 inches.
- 7.2.2. The minimum sewer line shall be 8 inches.
- 7.2.3. Piping shall be either
 - 7.2.3.1. PVC cement filled truss pipe (Owner preference).
 - 7.2.3.2. Ductile iron pipe with restrained joints, Class 53.

7.3. Tracer Wire:

- 7.3.1. Utility Locates Tracer Wire:
 - 7.3.1.1 HDPE pipe for tracer wire:
 - 7.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of sanitary sewer line.
 - 7.3.1.1.2. Tape HDPE innerduct to top of sanitary sewer line at spacing no greater than every 10 feet.
 - 7.3.1.1.3. Tape shall go around the full circumference of the sanitary sewer pipe if 12-inch diameter or less.
 - 7.3.1.2. Tracer wire:
 - 7.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each sanitary sewer pipe within 1-inch HDPE innerduct.

7.3.1.2.2. Bring tracer wire to the surface at sanitary sewer line intersections, valves, and ends of line.

7.3.1.2.3. Tracer wire to be installed as per item 16 of this section.

7.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

7.4. Accessories:

7.4.1. Manholes and Lids:

7.4.1.1. Manholes shall be precast concrete, minimum 4 feet inside diameter, unless otherwise noted.

7.4.1.2. Rings and lids for sanitary sewers shall be East Jordan model number 1045ZPT, bolt down assembly. The lids shall be marked, "University of Iowa, Sanitary Sewer."

7.4.1.3. Rings and lids for grated openings shall also use the 1045 ring, with the appropriate grated lid.

7.4.1.4. Lid extension ring height shall not exceed 12 inches.

7.4.1.5. Drop piping into manholes may be required.

7.4.1.6. Bases shall be poured into the bottom of manholes and a formed invert from pipe to pipe installed to create flow path.

7.4.2. Cleanouts:

7.4.2.1. Cleanouts are required on service lines outside building footprint and at horizontal or vertical bends in a service line.

7.4.2.2. The deflection shall utilize a wye with the cleanout as an upstream extension of the downstream line's alignment.

7.4.2.3. Cleanout material shall be ductile iron.

7.4.2.4. Frame and casting shall be Neenah R-1976, Deeter 1830. Casting shall be anchored by a 2 foot by 2 foot by 8 inch thick concrete pad, 6 inches below finished grade. Separate concrete from pipe with two (2) layers of building paper.

7.4.2.5. Cleanouts may be used at the end of a sewer line where the distance to the downstream manhole is 150 feet or less.

7.4.2.6. End-of-line cleanouts shall use long radius bends and include a concrete cradle under the bends.

7.4.2.7. PVC shall not extend above grade.

7.4.3. Utility Locates Tracer Wire:

7.4.3.1. HDPE pipe for tracer wire:

7.4.3.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of sanitary sewer line.

7.4.3.1.1.1. Tape HDPE innerduct to top of sanitary sewer line at spacing no greater than every 10 feet.

7.4.3.1.1.2. Tape shall go around the full circumference of the sanitary sewer pipe if 12-inch diameter or less.

7.4.3.2. Tracer wire:

7.4.3.2.1. A continuous length of tracer wire shall be installed along the entire run of each sanitary sewer pipe within 1-inch HDPE innerduct.

7.4.3.2.2. Bring tracer wire to the surface at sanitary sewer line intersections, valves, and ends of line.

7.4.3.2.3. Tracer wire to be installed as per item 16 of this section.

7.4.3.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

8. STORM SEWER

8.1. General:

8.1.1. Joints shall conform to ASTM D3212. Flexible elastomeric seals shall conform to ASTM F477 and C433.

8.1.2. Backfill material shall be crushed stone or other granular material meeting the requirements of Class-2 material as defined in ASTM D2321.

8.1.3. The drain basin body shall be cut at the time of the final grade.

8.1.3.1. No brick, stone or concrete block shall be required to set the grate to the final grade height.

8.1.3.2. For H-20 load rated installations, a concrete ring shall be poured under and around the grate and frame.

8.1.4. Piping shall have sand pipe bedding and envelope. Trench backfill shall be IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.

8.1.5. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.

8.1.6. Backfill material shall be placed in continuous layers not exceeding 8 inch in compacted depth.

8.1.7. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.

8.1.8. Install warning tape 12 inches to 18 inches above piping.

8.2. Piping:

8.2.1. Up to 12 inch:

8.2.1.1. Ductile iron conforming to ASTM A746 with cement lining conforming to ANSI/AWWA C104/A21.4, and asphaltic coating on the interior and exterior conforming to ANSI/AWWA C110/A21.10, and asbestos-free.

8.2.1.2. Polyvinyl chloride (PVC) conforming to ASTM D2241, PVC 1120, DR 21, PR 200 (SDR-21).

8.2.1.3. HDPE conforming to ASTM F2688 and F2306

8.2.2. 12 inch and larger:

8.2.2.1. Reinforced Concrete Pipe (RCP) conforming to ASTM C76 or AASHTO M170, Class 3 Minimum

8.2.2.2. HDPE conforming to ASTM F2688 or F2306.

8.2.2.3. Polypropylene pipe conforming to ASTM F2736, F2764 or F2881

8.2.3. The minimum pipe size for storm drains, except roof drains, is 15 inches.

8.2.4. Perforated pipe for subgrade drains shall be SDR-35, Schedule 40 PVC, or HDPE conforming to ASTM F2688 or F2306.

8.2.4.1. Pipe shall be installed in a geotextile envelope with clean rock.

8.2.4.2. Perforated pipe in a 'sock' shall not be allowed.

8.3. Tracer Wire:

8.3.1. Utility Locates Tracer Wire:

8.3.1.1. HDPE pipe for tracer wire:

8.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of sanitary sewer line.

8.3.1.1.2. Tape HDPE innerduct to top of sanitary sewer line at spacing no greater than every 10 feet.

8.3.1.1.3. Tape shall go around the full circumference of the sanitary sewer pipe if 12-inch diameter or less.

8.3.1.2. Tracer wire:

8.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each sanitary sewer pipe within 1-inch HDPE innerduct.

8.3.1.2.2. Bring tracer wire to the surface at sanitary sewer line intersections, valves, and ends of line.

8.3.1.2.3. Tracer wire to be installed as per article 1.1. of this section.

8.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

8.4. Accessories:

8.4.1. Ductile iron grates shall be Nyoplast for sizes 8, 10, 12, 15, 18, 24 and 30 inches. Grates for drain basins shall be capable of supporting H-20 wheel loading for traffic areas and H-10 loading for pedestrian areas. 12 and 15 inch square grates shall be hinged to the frame using pins.

8.4.2. Inlets and junction boxes may be cast-in-place or precast conforming to ASTM C478.

8.4.3. Storm manholes and junction boxes shall be East Jordan Model 1045 non-bolt down. Lid shall be lettered with the words 'University of Iowa Storm Sewer' or 'University of Iowa Storm Drain.'

8.4.4. Structures over 3 feet from lid to lowest flow line shall include steps. Steps shall be Neenah 1980-J, Deeter 1606, M.A. Industries PS2-PF.

8.4.5. Above and below-ground knife-gate valve applications shall be Sure Flow Equipment, Model KG150SSVIRC. The valves shall conform to TAPPI TIS 405.8 face-to-face and shall be tested to MSS SP-81 standards. Valve body shall be full lug style, drilled and tapped to ASME Class 150 and material shall be SA351 CG8M cast 317 stainless steel.

8.4.6. Nyoplast, PVC sub-surface drainage inlets, inline drains and catch basins may be used in landscaped areas with Owner approval.

8.4.7. Utility Locates Tracer Wire:

8.4.7.1. HDPE pipe for tracer wire

8.4.7.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of storm sewer line.

8.4.7.1.2. Tape HDPE innerduct to top of storm sewer line at spacing no greater than every 10 feet.

8.4.7.1.3. Tape shall go around the full circumference of the storm sewer pipe if 12-inch diameter or less.

8.4.7.2. Tracer wire

8.4.7.2.1. A continuous length of tracer wire shall be installed along the entire run of each storm sewer pipe within 1-inch HDPE innerduct.

8.4.7.2.2. Bring tracer wire to the surface at storm line intersections, end of line, and outfalls.

8.4.7.2.3. Tracer wire to be installed as per item 16 of this section.

- 8.4.7.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

9. DOMESTIC WATER

9.1. General:

- 9.1.1. Piping shall have sand pipe bedding and envelope. Provide 5 feet 6 inches minimum cover. Trench backfill shall be IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.
- 9.1.2. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.
- 9.1.3. Backfill material shall be placed in continuous layers not exceeding 8 inches in compacted depth.
- 9.1.4. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.
- 9.1.5. Install warning tape 12 inches to 18 inches above piping.
- 9.1.6. Underground piping systems shall have a #12 AWG copper wire attached to the pipe for tracing. Wire shall be labeled and terminated in an accessible location. No splices in wire allowed.
- 9.1.7. Provide 1 inch insulation and vapor barrier on all domestic water piping that is not direct buried.
- 9.1.8. Operation of all valves, both new and existing, shall be by the Owner.
- 9.1.9. Coordinate post indicator valve locations with Owner.

9.2. Piping:

- 9.2.1. Ductile Iron piping shall be class 53 restrained piping for all sizes.
- 9.2.2. Pipe shall be cement lined.
- 9.2.3. Plain end fittings shall not be used.
- 9.2.4. Changes in direction shall be made with 45-degree, 22 ½-degree or 11 ¼-degree fittings. 90-degree fittings shall not be used without written approval from the Owner.
- 9.2.5. Approved manufacturers: Griffin Snap Lok, US Pipe TR Flex, Clow TR Flex, and American Pipe Flex Ring.
- 9.2.6. Field cut joints shall use Mega Lug series 1100 restraint. Piping manufacturer's field kits shall not be used.
- 9.2.7. Piping shall be encased in minimum 8 mils polyethylene sheathing.
- 9.2.8. Wall and floor penetrations shall be sealed with Link-Seal.

- 9.2.9. Anchor through wall and through floor penetrations. Refer to *UTILITY DISTRIBUTION CHILLED, DOMESTIC AND FIRE PROTECTION WATER WALL PENETRATION DETAIL* and *UTILITY DISTRIBUTION CHILLED, DOMESTIC AND FIRE PROTECTION WATER FLOOR PENETRATION AND ANCHOR DETAIL* in Appendices.

9.3. Tracer Wire:

9.3.1. Utility Locates Tracer Wire:

9.3.1.1. HDPE pipe for tracer wire

- 9.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of storm sewer line.
- 9.3.1.1.2. Tape HDPE innerduct to top of storm sewer line at spacing no greater than every 10 feet.
- 9.3.1.1.3. Tape shall go around the full circumference of the storm sewer pipe if 12-inch diameter or less.

9.3.1.2. Tracer wire

- 9.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each storm sewer pipe within 1-inch HDPE innerduct.
- 9.3.1.2.2. Bring tracer wire to the surface at storm line intersections, end of line, and outfalls.
- 9.3.1.2.3. Tracer wire to be installed as per article 1.1. of this section.
- 9.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

9.4. Accessories:

- 9.4.1. Fire hydrants shall be provided in accordance with the requirements of the local fire district or department. Fire hydrants shall be Mueller Super Centurion 250, Model A-423, open right. Color shall be safety yellow.
- 9.4.2. All water meters shall be located inside buildings with a $\frac{3}{4}$ inch raceway to the Utility Ethernet connection. Refer to *UTILITY DISTRIBUTION DOMESTIC WATER METER DETAIL* in Appendices.
- 9.4.3. Valves:
- 9.4.3.1. Valves 14 inches and smaller shall be Clow F-6100 resilient wedge gate valve.
- 9.4.3.2. Valves 16 inches and larger shall be gear-operated butterfly valves.
- 9.4.3.3. Valves shall be designed, manufactured and tested in accordance with ANSI/AWWA C504. Valves shall be proof of design tested in accordance with ANSI/AWWA C504, and certified by ANSI/NSF 61 Drinking Water System Components – Health Effects. Manufacturer shall have a quality management system that is certified to ISO 9001:2000.

9.4.3.4. Connections:

9.4.3.4.1. Flanged end connections shall fully conform to ANSI B16.1 for Class 125, Class 260 Iron flanges, or AWWA C207 Class D. Both 125 and 250 flanges shall be flat faced.

9.4.3.4.2. Mechanical joint end connections shall fully conform to ANSI/AWWA C111/A21.11.

9.4.3.4.3. Wafer end connection shall be designed for installation between ANSI B16.1 Class 125 Iron flanges or ISO 7005-2 PN10 or PN16 flanges.

9.4.3.5. Design:

9.4.3.5.1. Valve shafts shall be through-type for sizes 3 to 24 inches. 30 inch and larger shall be stub-type. Shafts shall be locked to the disc by O-Ring sealed taper pins retained with stainless steel nuts.

9.4.3.5.2. Valve discs shall be solid-type without external ribs or vanes to obstruct flow. Resilient seats shall be located on the valve disc and shall provide a 360-degree, continuous, uninterrupted stainless steel body seat ring.

9.4.3.5.3. Resilient seats shall be field adjustable and replaceable and shall not require hypodermic needles or pressure vessels to replace or adjust.

9.4.3.5.4. Sleeve bearings shall be provided in the valve hubs and shall be Nylatron or woven Teflon, fiberglass backed, self-lubricating.

9.4.3.5.5. Thrust bearings shall be provided and shall be adjustable on valves 30 inches and larger.

9.4.3.5.6. Shaft seals shall be of the V-type and shall be replaceable without removal of the valve or shaft.

9.4.3.6. Materials:

9.4.3.6.1. Body

9.4.3.6.1.1. Class 150B valve bodies shall be ASTM A126, Class B gray iron or ASTM A536 Grade 65-45-12 ductile iron. Class 250B valve bodies shall be ASTM A536 Grade 65-45-12 ductile iron.

9.4.3.6.1.2. Optional body material is ASTM A536, Grade 65-45-12 ductile iron.

9.4.3.6.2. Valve disc shall be ASTM A536 Grade 65-45-12 ductile iron.

9.4.3.6.3. Shafts

9.4.3.6.3.1. Shafts shall be ASTM A276 type 304, or ASTM A564, Type 630 stainless steel.

9.4.3.6.3.2. Optional shaft material is ASTM A276, Type 316 stainless steel.

- 9.4.3.6.4. Resilient seat shall be Buna-N and mate to a Type 316 stainless steel body seat ring.
- 9.4.3.6.5. All seat-retaining hardware shall be Type 316 stainless steel.
- 9.4.3.6.6. Valve exteriors for above ground service shall be coated with a universal, alkyd primer.
- 9.4.3.6.7. Valve exteriors for buried service shall be coated with fusion bonded epoxy coating.
- 9.4.3.6.8. Valve interiors shall be coated with an ANSI/NSF 61 fusion bonded epoxy coating approved for potable water.
- 9.4.3.6.9. Provide manual, electric or cylinder actuation.
- 9.4.3.6.10. Valve boxes shall be East Jordan model number 8550. Valve box lids shall be East Jordan, labeled "University of Iowa, (with either) Domestic Water, or Fire Protection or Fire Hydrant."
- 9.4.3.6.11. T-bolts shall be fluorocarbon coated by Birmingham Fasteners.
- 9.4.3.6.12. Use manufacturer provided gasket unless the site is identified as an Iowa DNR Register UST site. Designer shall determine the appropriate gasket required for contaminants.

9.4.4. Utility Locates Tracer Wire:

9.4.4.1. HDPE pipe for tracer wire

- 9.4.4.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of direct-buried water line.
 - 9.4.4.1.1.1. Tape HDPE innerduct to top of water line at spacing no greater than every 10 feet.
 - 9.4.4.1.1.2. Tape shall go around the full circumference of the water pipe if 12-inch diameter or less.
 - 9.4.4.1.1.3. Use 1-1/4-inch SDR11 HDPE paired with bored water lines.

9.4.4.2. Tracer wire

- 9.4.4.2.1. A continuous length of tracer wire shall be installed along the entire run of each water pipe within 1-inch HDPE innerduct.
- 9.4.4.2.2. Bring tracer wire to the surface at water valves, hydrants, or at buildings.
 - 9.4.4.2.2.1. Hydrant take-offs shorter than 20 feet in length do not require a tracer wire installation.
- 9.4.4.2.3. Tracer wire to be installed as per item 16 of this section.

9.4.4.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

9.5. Testing:

9.5.1. Disinfection - Domestic Water:

9.5.1.1. Disinfections shall be performed Monday through Thursday, starting between 8:00 AM and 9:00 AM.

9.5.1.2. Pipes shall be disinfected according to AWWA standards.

9.5.1.3. Disinfection shall take place over a period of twenty-four (24) hours (no longer or shorter).

9.5.1.4. Disinfection shall be performed before hydro testing. Hydro testing shall not begin until bacteria results have been returned from the lab. Constructor shall anticipate a three (3) working day turn-around time from the time that the sample is taken until the results are returned.

9.5.2. Method of Chlorination:

9.5.2.1. Piping shall be filled with water at a rate no greater than 1 foot per second within the main. Precautions shall be taken to ensure that air pockets are eliminated.

9.5.2.2. Water shall remain in the pipe for twenty-four (24) hours. If the water temperature is below 41 degrees F, water shall remain in the pipe for forty-eight (48) hours.

9.5.2.3. Take Chlorine residue tests at each sampling point after the twenty-four (24) hour period. Report results to Owner.

9.5.2.4. Owner shall provide 5-g calcium hypochlorite required for dose of 50 mg/L.

9.5.3. Flush - Domestic Water:

9.5.3.1. Remove air relief vents after testing. Provide GPS locations for each vent.

9.5.3.2. Constructor shall supply all equipment and personnel required to perform flush.

9.5.3.3. Constructor shall contact the Owner for water source.

9.5.3.4. Flushing shall be started between 8:00 AM and 9:00 AM, Monday through Thursday.

9.5.3.5. Systems shall be flushed two (2) times, with two (2) samples per flush.

9.5.3.6. Flushing shall take place for approximately four (4) hours.

9.5.3.7. Constructor shall install a temporary hydrant at the end of the water main for flushing purposes. The temporary hydrant shall be full-sized.

9.5.3.8. It is the Constructor's responsibility to route the flushed water to the storm sewer as indicated in the documents or directed by the Owner.

9.5.4. Notify the Owner of de-chlorination plan prior to disposal of heavily chlorinated water.

- 9.5.5. Neutralizing chemical shall be applied to the waste water to neutralize thoroughly the residual chlorine.
- 9.5.6. Contact Federal, State, provincial, and local regulatory agencies to determine provisions for disposal of heavily chlorinated water.
- 9.5.7. Cleaning:
 - 9.5.7.1. Piping shall be free of all foreign materials. Joint surfaces shall be free of lumps and blisters.
 - 9.5.7.2. Piping shall be power-washed clean inside and out. Owner shall witness cleaning.
- 9.5.8. Water Sampling - Domestic Water only
 - 9.5.8.1. Water sampling shall be performed by the Owner. The Owner shall collect the sample, take the sample to the lab, and notify the Constructor of the results.
 - 9.5.8.2. The Constructor shall supply equipment and personnel required to perform the tests.
 - 9.5.8.3. Water sampling shall take place at approximately 11:30 AM.
 - 9.5.8.4. Following the sampling, the Constructor shall allow three (3) days for laboratory processing before hydro test.
 - 9.5.8.5. Testing shall be completed and passed prior to connecting to any existing lines.
- 9.5.9. Hydro Test:
 - 9.5.9.1. Hydro test all piping.
 - 9.5.9.2. Testing shall not begin until satisfactory biological test results have been received from the Owner.
 - 9.5.9.3. Tests shall be made against capped ends. Test pressure shall be 1 ½ times working pressure, and a minimum of 150 pounds. All piping shall be capped by mechanical caps and restraint joints.
 - 9.5.9.4. Owner shall witness all hydro tests.
 - 9.5.9.5. Test shall be for four (4) hours. No tests started after 12:00 PM.
 - 9.5.9.6. Test may only lose 5 psig.
 - 9.5.9.7. Gauges shall be Owner provided.

9.6. Final Connections to Existing Domestic Water Main:

- 9.6.1. Water mains and appurtenances shall be flushed, disinfected, and satisfactory bacteriological sample results received prior to permanent connection to the active distribution system.
- 9.6.2. Follow sanitary construction practices during final connection so that no foreign material or groundwater contamination enters the adjacent piping.

10. NATURAL GAS

10.1. Gas Mains and services shall have a minimum of 24 inches of cover.

10.2. A shutoff valve shall be installed immediately downstream of the utility meter. This valve is in addition to the MidAmerican Energy shutoff valve installed upstream of the meter.

10.3. Piping downstream of meter shall be above-grade.

11. CHILLED WATER

11.1. General:

11.1.1. Piping shall have sand pipe bedding and envelope. Piping shall be laid in a sand bed with a minimum 12 inch sand envelope.

11.1.2. Trench backfill shall be IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.

11.1.3. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.

11.1.4. Backfill material shall be placed in continuous layers not exceeding 8 inch in compacted depth.

11.1.5. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.

11.1.6. Install warning tape 12 inches to 18 inches above piping.

11.1.7. Operation of all valves, both new and existing, shall be by the Owner.

11.1.8. Constructor shall furnish and install a PLC cabinet for chilled water interfaces and metering. Refer to *UTILITY DISTRIBUTION PLC CABINET DETAIL* in Appendices.

11.2. Piping:

11.2.1. Ductile Iron piping shall be class 53 restrained piping for all sizes.

11.2.2. Pipe shall be cement lined.

11.2.3. Plain end fittings shall not be used.

11.2.4. Changes in direction shall be made with 45-degree, 22 ½-degree or 11 ¼-degree fittings. 90-degree fittings shall not be use without written approval from the Owner.

11.2.5. Approved manufacturers: US Pipe TR Flex, Clow TR Flex, and American Pipe Flex Ring.

11.2.6. Field cut joints shall use Mega Lug series 1100 restraint. Piping manufacturer's field kits shall not be used.

11.2.7. Piping shall be encased in minimum 8 mils polyethylene sheathing.

11.2.8. Wall and floor penetrations shall be sealed with Link-Seal.

11.2.9. Anchor through wall and through floor penetrations: Refer to *UTILITY DISTRIBUTION CHILLED, DOMESTIC AND FIRE PROTECTION WATER WALL PENETRATION DETAIL* and *UTILITY DISTRIBUTION CHILLED, DOMESTIC AND FIRE PROTECTION WATER FLOOR PENETRATION AND ANCHOR DETAIL* in Appendices.

11.3. Tracer Wire:

11.3.1. Utility Locates Tracer Wire:

11.3.1.1. HDPE pipe for tracer wire

11.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of direct-buried water line.

11.3.1.1.2. Tape HDPE innerduct to top of water line at spacing no greater than every 10 feet.

11.3.1.1.3. Tape shall go around the full circumference of the water pipe if 12-inch diameter or less.

11.3.1.1.4. Use 1-1/4-inch SDR11 HDPE paired with bored water lines.

11.3.1.2. Tracer wire

11.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each water pipe within 1-inch HDPE innerduct.

11.3.1.2.2. Bring tracer wire to the surface at water valves, hydrants, or at buildings.

11.3.1.2.2.1. Hydrant take-offs shorter than 20 feet in length do not require a tracer wire installation.

11.3.1.2.3. Tracer wire to be installed as per article 1.1. of this section.

11.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

11.4. Accessories:

11.4.1. Valves:

11.4.1.1. Valves 12- inch and smaller shall be Clow F-6100 resilient wedge gate valve or approved equal.

11.4.1.2. Valves 14- inches and larger shall be gear-operated butterfly valves.

11.4.1.3. Valve boxes shall be East Jordan model number 8550, or approved equal. Valve box lids shall be East Jordan labeled "University of Iowa, (with either) Chilled Water Supply or Chilled Water Return."

11.4.2. Elbows:

11.4.2.1. Changes in direction shall be made with 45-degree, 22 ½-degree, or 11 ¼-degree bends. 90-degree elbows are not allowed.

11.4.3. Building service piping shall have a strainer and chilled water meter installed at the point of entry into the building.

11.4.4. Utility Locates Tracer Wire:

11.4.4.1. HDPE pipe for tracer wire

11.4.4.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of direct-buried chilled water line.

11.4.4.1.1.1. Tape HDPE innerduct to top of chilled water line at spacing no greater than every 10 feet.

11.4.4.1.1.2. Tape shall go around the full circumference of the chilled water pipe if 12-inch diameter or less.

11.4.4.1.1.3. Use 1-1/4-inch SDR11 HDPE paired with bored chilled water lines.

11.4.4.2. Tracer wire

11.4.4.2.1. A continuous length of tracer wire shall be installed along the entire run of each steam pipe within 1-inch HDPE innerduct.

11.4.4.2.2. Bring tracer wire to the surface at chilled water valves, at vault walls, or at buildings.

11.4.4.2.3. Tracer wire to be installed as per item 16 of this section.

11.4.4.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

11.5. Testing:

11.5.1. All piping shall be cleaned prior to testing. Disinfection is not required. Cleaning shall be as follows:

11.5.1.1. Piping shall be free of all foreign materials. Joint surfaces shall be free of lumps and blisters.

11.5.1.2. Piping shall be power-washed clean inside and out. Owner shall witness cleaning.

11.5.2. Chilled Water piping shall be video recorded to verify cleanliness prior to being filled for hydro test. Submit video to Owner for review.

11.5.3. Hydro Test Requirements:

11.5.3.1. Hydro test all piping.

11.5.3.2. Test pressure shall be 150 pounds.

11.5.3.3. Owner shall witness all hydro tests.

11.5.3.4. Test shall be for four (4) hours.

11.5.3.5. Test may only lose 5 psig.

11.5.3.6. Gauges shall be provided by Owner.

12. STEAM AND CONDENSATE DISTRIBUTION

12.1. General:

12.1.1. Piping shall have sand pipe bedding and envelope. Trench backfill shall be IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.

12.1.2. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.

12.1.3. Backfill material shall be placed in continuous layers not exceeding 8 inch in compacted depth.

12.1.4. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.

12.1.5. Install warning tape 12 inches to 18 inches above piping.

12.1.6. Weld requirements:

12.1.6.1. Constructor shall submit welder certifications.

12.1.6.2. Each welder shall be assigned an identification number or letter. This identification shall be etched or stamped on each weld after completion of the weld. Any weld without an identification shall be rejected.

12.1.7. Pipe material requirements:

12.1.7.1. All piping shall be marked with an identification code consisting of longitudinal color stripe, painted the entire length of each piece of pipe to identify ASTM designation of material.

12.1.7.2. Provide the Owner with the identification code.

12.1.7.3. Any fabrication off the jobsite shall have the identification color coded the entire length of fabrication.

12.1.7.4. Owner shall have the right to reject any pipe which cannot be readily identified as to the material because the color coding was not installed on the piping.

12.2. Piping:

12.2.1. Carrying piping material shall be as follows:

12.2.1.1. Steam - All Locations:

12.2.1.1.1. 2 inches and Smaller Schedule 40 A106 Gr B seamless, threaded.

- 12.2.1.1.2. 2 ½ inches and Larger STW A106 Gr B seamless, butt-weld.
- 12.2.1.2. Condensate in Tunnels and Tank Rooms: carrier pipe material shall be schedule 80 carbon steel.
- 12.2.1.3. Condensate in Direct Bury Systems: carrier pipe material shall be schedule 10 stainless steel, with schedule 40 stainless steel inserted at anchor locations and extend for a minimum of 2 feet on either side of the anchor.
- 12.2.2. Piping shall be sloped ¼ inch per 10 feet of pipe to a drip leg. Pipe shall be sloped down in the direction of steam flow.
- 12.2.3. Thread tape, including Teflon or any other materials, shall not be used on distributed piping.
- 12.2.4. Welds shall be visually inspected.
- 12.2.5. Flanges on screwed piping shall be back-welded.
- 12.2.6. Unions shall be Nicholson Uniflex Steel/Stainless. Pipe unions shall have replaceable gaskets.
- 12.2.7. Elbows shall be long radius.
- 12.2.8. Pre-insulated Piping (direct-bury):
 - 12.2.8.1. Perma-Pipe Multi-Therm 750.
 - 12.2.8.2. Steam and condensate shall be installed in separate casing pipes.
 - 12.2.8.2.1. Steam is schedule 40 seamless steel piping.
 - 12.2.8.2.2. Main Campus condensate piping shall be schedule 10 stainless steel.
 - 12.2.8.2.3. The University of Iowa Research Campus condensate piping shall be schedule 80 seamless steel.
 - 12.2.8.3. Provide for pipe expansion in vaults.
 - 12.2.8.4. Casing pipe shall be air pressure tested and soaped at field joints.
 - 12.2.8.5. Trapping vaults on the system shall be no more than 250 feet apart.
 - 12.2.8.6. Engineering supervision is required during installation, as faulty installation cannot be detected by any post-construction test methods.
- 12.2.9. Piping Penetrations:
 - 12.2.9.1. Penetrations of foundation walls shall be leak proofed. Approved manufacturers include Thunderline and Link-Seal.
 - 12.2.9.2. Penetrations, except steam tunnels, shall be individual pipes or conduits. Groups of pipes or conduits in a common penetration shall not be allowed.
 - 12.2.9.3. Minimum strength of pipe penetrating foundation walls shall be equal to Schedule 40.

12.2.9.4. The point of attachment for steam tunnels shall have a concrete, cast-in-place transition, with water-stopping material cast into the concrete. The water-stopping shall be embedded into the foundation wall according to the manufacturer's recommendations.

12.2.9.5. Individual penetrations of steam and condensate lines shall be installed as follows

12.2.9.5.1. Sleeve penetration with a steel sleeve at least 6 inches beyond the penetration.

12.2.9.5.2. Weld flange to the sleeve and to the pipe on the interior side of the foundation wall with a continuous, waterproof weld. The exterior side of the penetration shall have waterproofing material applied.

12.3. Tracer Wire:

12.3.1. Utility Locates Tracer Wire:

12.3.1.1. HDPE pipe for tracer wire

12.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of direct-buried chilled water line.

12.3.1.1.2. Tape HDPE innerduct to top of chilled water line at spacing no greater than every 10 feet.

12.3.1.1.3. Tape shall go around the full circumference of the chilled water pipe if 12-inch diameter or less.

12.3.1.1.4. Use 1-1/4-inch SDR11 HDPE paired with bored chilled water lines.

12.3.1.2. Tracer wire

12.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each steam pipe within 1-inch HDPE innerduct.

12.3.1.2.2. Bring tracer wire to the surface at chilled water valves, at vault walls, or at buildings.

12.3.1.2.3. Tracer wire to be installed as per article 1.1. of this section.

12.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.

12.4. Accessories:

12.4.1. Supports and Anchors:

12.4.1.1. Portions of pipe stanchions within 12 inches of concrete shall be 304L stainless steel.

12.4.1.2. Anchoring devices shall be stainless steel.

12.4.2. Meters: Refer to *UTILITY DISTRIBUTION STEAM METER AND TAPS* in Appendices.

12.4.3. Pressure Reducing Valves (PRV):

12.4.3.1. Each individual building shall be served by a dedicated PRV.

12.4.3.2. PRVs shall be installed with isolation valves.

12.4.3.3. PRVs shall be Cashco Ranger

12.4.3.4. PRVs in the distribution system shall not contain a bypass.

12.4.3.5. Locate pressure gauges on both sides of PRV.

12.4.3.6. All PRVs shall be located and configured to allow for maintenance access. Provide a minimum clearance of 24 inches in all directions.

12.4.3.7. Mount PRV below 8 feet above finished floor.

12.4.4. Valves:

12.4.4.1. All valves on a project shall be by the same manufacturer and the same model.

12.4.4.2. Valves 2 ½ inches and larger:

12.4.4.2.1. Manufacturers shall be Powell, NEWCO, Velan, or Crane.

12.4.4.2.2. 155 psig Steam shall be 300 pound class cast steel, butt-weld.

12.4.4.2.3. 20 psig Steam shall be 150 pound class cast steel, butt weld.

12.4.4.2.4. Hard-faced seat rings.

12.4.4.2.5. Direct-operated valves are preferred over gear-operated valves.

12.4.4.2.6. All valves shall be equipped with operating devices to allow operation from the ground.

12.4.4.2.7. Valves may be butterfly, lug-style, carbon steel body, and stainless steel disk, complete with gear operator and locking device and manual hand wheel.

12.4.4.3. Valves 2 inches and smaller:

12.4.4.3.1. Manufacturer shall be NIBCO Model T-174-SS

12.4.4.3.2. 155 psig Steam shall be 300 pound class screwed bronze.

12.4.4.3.3. 20 psig Steam shall be 300 pound class screwed bronze.

12.4.4.3.4. Rolled in stainless steel seat rings.

12.4.4.4. Safety Valves:

12.4.4.4.1. Sized to State of Iowa Codes and ASME Section VIII Unfired Pressure Vessel Code, with a minimum of 10 pounds between set-point and maximum pressure.

12.4.4.4.2. Multiple valves may be used in lieu of a single, larger valve.

12.4.4.4.3. Valves 2 ½ inch outlet or smaller shall be Kunkle Figure 6010. Valves 3 inch outlet or larger shall be Kunkle Figure 300.

12.4.4.4.4. The use of PRVs in series instead of a relief valve shall not be allowed.

12.4.4.4.5. Each safety valve shall have an individual vent pipe to outside. Consult with the Owner for vent routing.

12.4.4.4.6. Safety valve shall not be hard piped to vent line.

12.4.4.4.7. Valves larger than 2 inches shall have Kunkle Figure 299 cast drip plates at the base of the vent pipe, with drain holes piped to a suitable drain.

12.4.4.4.8. Vent lines from pressure powered pumps or condensate pumps shall not be connected to a relief vent pipe.

12.4.4.5. Check Valves:

12.4.4.5.1. Check valves shall bronze or stainless steel seats and flappers.

12.4.4.5.2. Bodies shall be bronze, cast steel or forged steel. Cast iron bodies are not acceptable.

12.4.4.5.3. Valves on steam shall be 300 pound class.

12.4.5. Strainers:

12.4.5.1. Strainers shall have bronze, cast steel or forged steel bodies. Cast iron is not acceptable.

12.4.5.2. Strainers shall have 1/32 inch screens.

12.4.5.3. The blow down port of each strainer shall have a pipe nipple with a full port-sized gate valve and no cap.

12.4.5.4. Any strainer on 155 psig steam system shall be 300 pound class. Any strainer on 20 psig steam system shall be 150-pound class

12.4.5.5. Manufacturers shall be Armstrong, Spirax Sarco, or Hoffman.

12.4.5.6. Strainers shall be Y-pattern, rated for steam, with stainless steel baskets.

12.4.6. Expansion Joints:

12.4.6.1. Fitting shall be ATS Model TP2W-131-12-350H-BRZ-A, piston-type expansion joint with 12 inch traverse, for 300 pound steam at 500 degrees F, weld ends, steel body, chromium plated steel slips, with no anchor foot, installed per manufacturer's specifications. Comply with ASTM F 1007.

12.4.6.2. Joints shall have internal and external guides, integral with joint gland and body. Joints shall be equipped with limit stop.

12.4.6.3. Joint shall allow the addition of new packing while joint is in service under full line pressure. The packing ram shall be steel, with no shutoff valve.

12.4.6.4. Base joint travel on 550 degrees F operating temperature. Joints shall be pre-pressed to allow shrinkage down to 0 degrees F.

12.4.6.5. Drain plugs shall be seal welded shut.

12.4.7. Gauges:

12.4.7.1. Provide McDaniel Gauges or approved equal.

12.4.7.2. Face Style shall be 4 inches or larger.

12.4.7.3. Range Selection:

12.4.7.3.1. 20 psig system gauges shall be 0 to 30 (psig).

12.4.7.3.2. Medium pressure (20 to 90 psig) gauges shall be 0 to 100 (psig).

12.4.7.3.3. 155 psig system gauges shall be 0 to 200 (psig).

12.4.7.4. Mounting shall be standard bottom connection.

12.4.8. Equipment:

12.4.8.1. General

12.4.8.1.1. Install air vents and vacuum breakers on steam equipment.

12.4.8.2. Condensate Pumps:

12.4.8.2.1. Pumps shall be electric, duplex-type.

12.4.8.2.2. Manufacturers include Sterling, Johnson, ITT, Spirax Sarco, or Clark Reliance.

12.4.8.2.3. Pump shall be installed per manufacturer's specifications.

12.4.8.2.4. Condensate tanks shall be vented.

12.4.8.2.4.1. Condensate pumps shall have two (2) full size vents, discharge into equipment room.

12.4.8.3. Heat Exchangers:

12.4.8.3.1. Exchangers shall be ASME approved, with relief valves, rated for the service, on both steam and hot water systems.

12.4.8.3.2. Locate heat exchangers to allow removal of the bundle.

12.4.8.3.3. Install gauges and thermometers to indicate the following:

12.4.8.3.3.1. Pressure of entering steam

12.4.8.3.3.2. Pressure and temperature of entering water

12.4.8.3.3.3. Pressure and temperature of leaving water

12.4.8.3.4. Install expansion tanks on the water side of all heat exchangers.

12.4.8.4. Coils:

12.4.8.4.1. Coils shall be tube-in-tube, non-freezing type with a minimum 1 inch O.D. tubing.

12.4.8.4.2. Use integral face and bypass coils for outside air preheat coils.

12.4.8.4.3. Provide two (2) steam traps with bypass for all pre-heat coils.

12.4.8.5. Pressure Powered Pump:

12.4.8.5.1. Pump shall be a pressure powered design, using 60 psig steam to pump low pressure steam condensate.

12.4.8.5.2. Pump shall be constructed with a cast iron body, designed for maximum operating pressure of 125 psig at 450 degrees F, bronze or stainless steel check valves on the inlet and outlet, and connections for high pressure steam and vent. All internal components shall be stainless steel.

12.4.8.5.3. Pump shall contain a float operated snap acting mechanism to actuate fill and discharge cycles.

12.4.8.5.4. Connections shall be threaded or flanged.

12.4.8.5.5. Pump shall be equipped with a gauge glass with brass cocks and manufacturer-furnished insulating jacket.

12.4.8.6. Pressure Powered Pump / Receiver:

12.4.8.6.1. Provide a condensate receiver inlet reservoir of welded steel construction, mounted above the pump and sized in accordance with the manufacturer's recommendations for the pump capacity.

12.4.8.6.2. Condensate receiving tank shall have a drain installed.

12.4.9. Steam Trapping Stations:

12.4.9.1. Steam traps on mechanical distribution piping shall be Armstrong 2011 series or Spirax Sarco UIV30 Series, modular stainless steel inverted bucket traps.

12.4.9.2. Each trap shall have an upstream block valve, test valve, and strainer, a downstream swing check valve, a test valve, and a block valve.

12.4.9.3. There shall be no trap bypasses.

12.4.9.4. Trapping station piping and fittings shall be threaded. Welded fittings are not allowed.

12.4.9.5. Traps shall be piped from drip legs. Drip leg diameter shall be full-size. Length of the drip legs shall be 1 ½ times the diameter of the pipe, with a minimum of 12 inches.

12.4.9.6. Drip legs shall be equipped with blow-down valves on the bottom of the drip leg, equal to the smaller of line size or 2 inches. Blow-down valves shall be piped from the bottom of the drip leg cap where possible.

12.4.9.7. Blow down piping on drip legs and strainers shall face away from the blow-down valve hand wheel and shall not discharge onto electrical equipment.

12.4.10. Insulation:

12.4.10.1. Closed cell foam insulation shall not be used.

12.4.10.2. Insulation shall not be installed on steam traps and condensate return pumps.

12.4.10.3. All exterior piping insulation systems shall have aluminum jacket.

12.4.10.4. All piping exposed in occupied areas within 6 feet above finished floor shall have an aluminum jacket installed.

12.4.10.5. Jacket:

12.4.10.5.1. Jackets shall be 0.019 inch stainless steel or aluminum.

12.4.10.5.2. All seams shall face downward.

12.4.10.5.3. PVC shall not be used for this jacket.

12.4.10.6. Steam Tunnel Insulation:

12.4.10.6.1. Steam piping in tunnels shall have the following insulation:

12.4.10.6.1.1. 850 CertainTeed fiberglass insulation, 3 ½ inches thick on high pressure steam and 2 ½ inches thick on low pressure steam.

12.4.10.6.1.2. Insulation shall be installed in two (2) layers, using staggered joints and seams.

12.4.10.6.2. Condensate piping in tunnels shall have the following insulation:

12.4.10.6.2.1. 1 inch of 850 CertainTeed fiberglass insulation.

12.4.10.6.2.2. In addition to the fiberglass insulation with the vapor barrier jacket, the insulation shall be covered with aluminum jacket with bands.

12.4.10.6.3. Installation of insulation on steam piping shall be as per the following table:

SERVICE		SIZE	INSTALLATION METHOD	TOTAL THICKNESS
High Pressure Steam	Over 20 pounds	All Sizes	2 inches first layer, 1 ½ inches second layer	3 ½ inches
Low Pressure Steam	Under 20 pounds	All Sizes	1 ½ inches first layer, 1 inch second layer	2 ½ inches

12.4.10.6.4. Insulation shall be covered with aluminum jacket with bands.

12.4.10.6.5. Where pipe is held in place with a spider guide that does not allow at least ¾ inch clearance between the insulation and the outer ring, the following procedures shall be used:

12.4.10.6.5.1. The insulation shall neck down to a single layer approximately 6 inches before and after the guide.

12.4.10.6.5.2. The top layer of insulation shall be beveled at a 45-degree angle to allow for a smooth transition to a single layer.

12.4.10.6.5.3. The individual pieces of insulation that are placed between the legs of the spider guide shall extend past the spider legs so that they may be bound firmly into place with aluminum jacket with bands wrapped around the pipe.

12.4.10.7. Steam Vault Insulation:

12.4.10.7.1. Steam Piping in vaults shall have the following insulation:

12.4.10.7.1.1. Non-asbestos containing calcium silicate insulation.

12.4.10.7.1.2. Insulation shall be installed in two (2) layers, using staggered joints and seams.

12.4.10.7.2. All condensate lines in vaults shall have non-asbestos containing calcium silicate insulation.

12.4.10.7.3. Insulation shall be covered with aluminum jacket with bands.

12.4.10.7.4. The Non-asbestos containing insulation shall be:

12.4.10.7.4.1. Johns Manville - Kaylo T-12

12.4.10.7.4.2. Pabco-Caltemp

12.4.10.7.4.3. Manson-CALMAX

12.4.10.7.4.4. Temperlite 1200

12.4.10.7.4.5. Owens-Corning Pink

12.4.10.8. Steam Meter, Valve and Expansion Joint Insulation:

12.4.10.8.1. Meters, valves and expansion joints shall have removable/reusable insulation covers.

12.4.10.8.1.1. Covers for bodies 6 inches and below shall be one-piece.

12.4.10.8.1.2. Covers for bodies 8 inches to 12 inches shall be two-piece.

12.4.10.8.1.3. Covers for bodies 14 inches and larger shall be three-piece. Valve covers shall span 4 inches beyond welds or flanges.

12.4.10.8.1.4. Expansion joint covers shall be sized to accommodate thermal expansion.

12.4.10.8.2. Outer jacket, inner jacket, and gussets to be PTFE coated fiberglass, not less than 16.5 ounces per square yard.

12.4.10.8.3. Insulation thickness shall be:

12.4.10.8.3.1. All steam and condensate piping 6 inches and below shall be 1 inch thick type-E needled fiberglass, 6-8 pound density.

12.4.10.8.3.2. All steam and condensate piping 8 inches or larger shall be 2 inch thick type-E needled fiberglass, 9-11 pound density.

12.4.10.8.4. The sewing thread shall be 10-strand 304 stainless steel.

12.4.10.8.5. Fastener belt shall be PTFE coated fiberglass with double D-rings and Velcro closure.

12.4.10.8.6. ID tags shall be 304 stainless steel, embossed lettering, riveted to blanket. ID tag to contain the tunnel, tunnel stationing, size of pipe, identification of LPS, HPS, or condensate, and serial number.

12.4.10.8.7. All hardware shall be 304 stainless steel.

12.4.10.8.8. Hog ring or staple construction shall not be used.

12.4.10.8.9. Provisions shall be made for the packing cylinders to ensure a snug fit along the entire expansion joint.

12.4.10.8.10. Refer to *UTILITY DISTRIBUTION STEAM METER AND TAPS DETAIL* in Appendices.

12.4.11. Steam Vaults:

12.4.11.1. Design vaults to allow maintenance access.

12.4.11.2. Provide with lighting, GFCI maintenance receptacle, and 30 amp receptacle. Sump pumps shall not be connected to GFCI circuit. PVC conduit shall not be allowed.

12.4.11.3. Ventilation:

12.4.11.3.1. Vaults shall have a single speed fan with thermostat control, freeze stat, and On-Off-Auto switch. Fans shall draw air into vault.

12.4.11.3.2. All vault air ducts to louvered penthouses shall be ductile iron (push joint).

12.4.11.4. Vaults shall have Bilco spring-assisted access doors. Manhole covers are not acceptable. Doors shall be lockable with a key. Presray dead bolts are acceptable in areas where there is a potential for flooding. Consult with Owner for approval of all locking and security devices.

12.4.11.5. Vaults shall be cast-in-place concrete.

12.4.11.6. Vaults shall have a Q-door when not in drivable area.

12.4.11.7. Vaults shall have an H-20 J-door when in drivable area. No openings in roadways.

12.4.11.8. Vault doors shall be sized to allow largest equipment in and out.

12.4.11.9. All vaults shall have a painted or galvanized ladder with anti-slip, high-traction rung covers.

12.4.11.10. Drainage:

12.4.11.10.1. Vaults shall have a gravity drain wherever possible.

12.4.11.10.2. Vaults shall have a sump hole at low point. Sump hole shall be 24 inches in diameter and 24 inches deep.

12.4.11.10.3. PVC fittings shall not be allowed.

12.4.11.10.4. Surface drainage shall be routed away from all openings.

12.4.11.11. Wall piping penetrations shall be sealed with link seals.

12.4.11.12. Walls and ceilings shall be waterproofed.

12.4.11.13. Supports and anchors below 12 inches above finished floor shall be stainless steel.

12.4.11.14. Supports for process piping and equipment shall be stainless steel.

12.4.11.15. Supports for maintainable items shall be galvanized or painted.

12.5. Testing:

12.5.1. Pressure pipe welding requirements:

12.5.1.1. Pressure piping shall be examined and tested in accordance with ASME B31.1 and AWS B1.11.

12.5.1.2. Additional weld testing beyond visual inspections of welds may be performed including but not limited to radiography, ultrasonic, liquid penetrate and magnetic particle methods.

12.5.2. Piping shall be hydrostatically tested to a minimum 225 pounds of pressure. Test pressure shall be held for four (4) hours with 5-pound maximum loss. No tests shall begin after 12:00 PM (Noon).

12.5.3. Piping shall have high point vents to allow complete filling of pipe for the hydrostatic test. Remove Air relief vents after testing. Provide GPS locations for each vent.

12.5.4. Steam pipe cleaning shall be conducted using hydro-jetting.

13. UTILITY TUNNELS

13.1. Tunnel floors shall be positively sloped towards a drain and sumps with sump pumps and discharge piping installed.

13.2. Tunnels shall be ventilated with supply fan with thermostat control, freeze stat, and On-Off-Auto switch. Fans shall draw air into vault.

13.3. Tunnel entrances shall be hinged, spring-assisted Bilco doors. Tunnel entrances shall not be placed within roadways.

13.4. Doors shall be key lockable. Dead bolt locks are not acceptable. No key shall be required to open door from inside the tunnel, and an exit lever shall be easily accessible.

13.5. At tunnel locations where serviceable items are located, tunnel chambers shall be installed with surface access.

13.6. Surface access shall allow hands-free upright entrance wherever possible.

13.7. Power and Lighting:

13.7.1. Provide lighting at 40 foot intervals (maximum). Provide two (2) separate lighting circuits on alternating lighting so that failure in one (1) circuit will not leave a tunnel dark.

13.7.2. Emergency lighting is not required.

13.7.3. Provide 30 amp receptacle at 60 foot intervals. Install in separate conduit from lighting circuits.

13.8. No plastic expansion anchors shall be used in the tunnel, including conduit.

13.9. Conduit shall be RGS. PVC, plastic pipe, or conduit is prohibited in tunnels and vaults.

13.10. All tunnel entrances shall have aluminum OSHA notice signs stating "Entry into Utility Tunnels requires approval! Daytime 319-335-5156/ 319-335-6103; Nights/Weekends 319-355-5137 (page Mechanical Distribution on-call person)" mounted just inside the entrance. These signs shall be furnished by Owner.

14. ELECTRIC DISTRIBUTION

14.1. General:

- 14.1.1. Electric ductbank shall be backfilled with IDOT Gradation 11 Class A road stone compacted to 98 percent Standard Proctor Density under paving and suitable native fill compacted to 95 percent Standard Proctor Density under landscape areas.
- 14.1.2. Trench backfill shall comply with jurisdictional authority requirements when installed outside of University of Iowa property.
- 14.1.3. Backfill material shall be placed in continuous layers not exceeding 8 inches in compacted depth.
- 14.1.4. Maintain -2 percent to +4 percent optimum content for cohesive soils. Cohesionless soils shall be pre-wetted to within ± 3 percent of optimum moisture content before delivery to the project site.
- 14.1.5. Install warning tape 12 inches to 18 inches above piping.
- 14.2. High Voltage Equipment:
 - 14.2.1. Primary transformer/switchgear installations shall be designed using concrete equipment vault.
 - 14.2.2. Switchgear in a room or vault shall be installed on a 4 inch or taller concrete housekeeping pad.
 - 14.2.2.1. Minimum room height shall be 13 foot 0 inches from floor to lowest obstruction for bottom-fed equipment.
 - 14.2.2.2. Minimum room height shall be 15 foot 0 inches from floor to lowest obstruction for top-fed equipment.
- 14.3. Tracer Wire:
 - 14.3.1. Utility Locates Tracer Wire
 - 14.3.1.1. HDPE pipe for tracer wire
 - 14.3.1.1.1. Install a 1-inch diameter, SDR 13.5 HDPE pipe (innerduct) along the top of the entire length of duct bank.
 - 14.3.1.2. Tracer wire
 - 14.3.1.2.1. A continuous length of tracer wire shall be installed along the entire run of each ductbank within 1-inch HDPE innerduct.
 - 14.3.1.2.2. Bring tracer wire to the surface at vault walls, or at buildings.
 - 14.3.1.2.3. Tracer wire to be installed as per article 1.1. of this section.
 - 14.3.1.2.4. Replaced tracer wire must be a complete replacement of the full run that was damaged by the break or repair process.
- 14.4. Ductbank:
 - 14.4.1. Provide type-EB PVC 5 inch duct equal to Carlon number 68716 and EB PVC 2 inch duct equal to Carlon number 68711.
 - 14.4.2. Conduits shall terminate 2 inches inside walls with end bells equivalent to O-Z Gedney Type TNS.

- 14.4.3. Ductbanks shall contain a minimum of one (1) 2-inch conduit for telemetry.
- 14.4.4. Secondary ductbank from substation to electric room inside building shall contain a minimum 2 inch telemetry conduit.
- 14.4.5. All ductbank shall be concrete encased. Provide concrete base, minimum 4 inch, reinforced.
- 14.4.6. Steel conduits are required as follows:
 - 14.4.6.1. Within 10 feet of manholes and building.
 - 14.4.6.2. At construction joints where concrete pours are interrupted during installation.
- 14.4.7. Base and intermediate spacers shall be Carlon catalog numbers S288PL and S289PL. Spacers shall be provided on maximum 5 foot centers, minimum.
- 14.4.8. Duct and conduit couplings shall be water-tight. Duct shall be installed in such a manner to prevent accumulation of water.
- 14.4.9. Duct run shall pitch a minimum of 3 inches per 100 feet with no more than 350 feet between manholes.
- 14.4.10. Changes in direction shall be long-sweep.
- 14.4.11. All conduits shall be evenly spaced and aligned with each other.
- 14.4.12. Minimum reinforcing of the concrete shall be as follows:
 - 14.4.12.1. Minimum size # 4.
 - 14.4.12.2. Reinforcing shall be installed longitudinally, at each corner of the duct (in cross section) and along the top, bottom, and sides at a maximum of 6 inches on center.
 - 14.4.12.3. All ductbank reinforcing steel shall have a minimum concrete cover of 1½ inch and shall be increased to 2 inches when ductbanks are installed under surfaces used for motor vehicle travel. Reinforcing shall be installed latitudinal, as needed to hold the reinforcing steel in place during concrete placement.
 - 14.4.12.4. Each section of line (from manhole to manhole or from manhole to building) is intended to be poured complete in one (1) operation. Construction joints shall not be permitted between manholes.
- 14.4.13. The top of the concrete encasement shall be a minimum of 24 inches below final grade.
- 14.4.14. Concrete:
 - 14.4.14.1. Concrete shall cover the duct a minimum of 3 inches in all directions, and a maximum of 6 inches.
 - 14.4.14.2. Concrete shall be 4,000 psi and shall have the color additive “Colorcron - Tile Red” as manufactured by Masterbuilders, Solomon Grind Chemical Services number 140 Red. The color additive shall have a minimum concentration of 9 pounds per bag of cement and shall be mixed throughout all of the duct bank concrete.

14.4.14.3. Maximum aggregate size shall be $\frac{3}{4}$ inch.

14.4.14.4. Concrete shall not be placed with the aid of a mechanical vibrator.

14.4.15. After duct encasement is placed, and before backfill is installed, pull a mandrel or leather wipe through the ducts $\frac{1}{4}$ inch in diameter less than the ducts. If this test indicates that there are obstructions or water in the duct system, that section of the system shall be removed and a new section installed at no additional cost to the Owner.

14.4.16. Duct bank penetrations into manholes shall continue completely through the wall of the manhole using a single penetration. Where the concrete must stop outside the manhole, it shall be pinned to the manhole with steel pins to prevent differential settlement.

14.4.17. Install synthetic pulling / measuring tape with minimum 2500 lbs. tensile strength in all unused duct cells, for future use.

14.4.18. Duct bank penetrations of foundation wall shall comply with the following:

14.4.18.1. Concrete encased duct banks shall terminate at the exterior surface of the foundation wall. The conduit shall make individual penetrations of the foundation wall.

14.4.18.2. Duct banks shall be attached to the foundation wall in one (1) of two (2) manners.

14.4.18.2.1. In new construction, the reinforcing steel of the foundation wall may be extended into the concrete encasement of the duct bank at the time of placement.

14.4.18.2.2. In existing construction, drill and extend reinforcing using Hilti epoxy capsules.

14.4.19. The conduit shall penetrate the foundation wall in the following manner:

14.4.19.1. In new construction, install steel sleeve.

14.4.19.2. In existing construction, core drill. Sufficient space shall remain between the penetrations to maintain the structural integrity of the foundation wall.

14.4.19.3. Size sleeve or core opening per seal manufacturer's recommendations.

14.4.19.4. Provide Link-Seal near the interior surface of the foundation wall. Provide waterproofing installed on the exterior side of the rubber seal. Grouting is prohibited.

15. COMMUNICATIONS DISTRIBUTION

15.1. General:

15.1.1. Number and type of fiber shall be specified by ITS EI - Physical Infrastructure.

15.1.2. Fiber shall be installed in inner-duct within conduits.

15.1.3. Multiple fibers shall be pulled in the same inner-duct whenever possible.

15.1.4. Fiber shall be installed in one (1) continuous piece, unless prior approval is given by ITS EI - Physical Infrastructure.

15.1.5. Excess fiber shall be coiled neatly and secured to a wall above the plywood backboard out of the way of normal traffic and not subjected to unusual flexing.

15.2. Underground Pathways:

15.2.1. Exterior underground conduit shall be directional drilled.

15.2.2. HDPE conduit shall meet ASTM 3035 specifications:

15.2.2.1. 4-inch diameter to be SDR 13.5

15.2.2.2. 2-inch diameter to be SDR 11.

15.2.2.3. Telecommunications conduit shall be orange in color.

15.2.2.4. Connections shall be electro-fusion welded and witnessed by ITS EI – Physical Infrastructure.

15.2.3. Conduit shall meet American National Standards Institute (ANSI) and Federal Specifications (FS) standards HDPE conduit ASTM F2160, UL-651.

15.2.4. Install a minimum of six (6) 4 inch ducts or nine (9) 2 inch ducts between manholes.

15.2.5. Install one (1) 4 inch or a three (3) 2 inch ducts into a building.

15.2.5.1. Install conduit 30 inches (minimum) below grade to the top of the structure. Install conduit 36 inches (minimum) below grade under roadways.

15.2.5.2. Changes in direction, either vertical or horizontal, shall be accomplished with bends of the appropriate angle (90, 45, 22 ½ or 11-degrees) to provide a smooth transition and mild pulling radius. The aggregate total of bends between structures (i.e., manhole to manhole, manhole to pole, building or pad) shall not exceed 180-degrees. All bends shall have a minimum radius of 60 inches.

15.2.5.3. A pull-line, with a minimum tensile strength of 1200 to 1800 pounds and composed of a non-degradable material, shall be placed in all conduits.

15.3. Building Entrance Pathway:

15.3.1. Conduit from a manhole to a building shall consist of a one-by-three, flat configuration of three (3) 4-inch PVC conduits encased in concrete.

15.3.2. At the point of entry, into either a building or manhole wall, steel reinforcing bars shall be placed along the conduit within the concrete to extend within the foundation or manhole wall. Conduit to transition to a full 10 foot section of RGS at penetration to prevent shear.

15.3.3. The 4 inch conduits shall terminate inside the room equipped with bell-end fitting.

15.3.4. The 4 inch conduit entering the building beyond the point of penetration shall be installed in compliance with the National Electrical Code (NEC).

- 15.3.5. All conduits shall be sealed with rubber conduit plugs, Jackmoon U.S.A. Inc., part number 50D535U, Carlon Telecom Systems, part number MAEPG8, General Machine Products Co. Inc., part number 66638.

15.4. Communication Manholes:

15.4.1. Precast Manholes:

- 15.4.1.1. The standard manholes for Campus applications shall be precast concrete, minimum size shall be 5 feet wide by 8 feet long by 7 feet head room, industry standard type 38Y, available in type-A and type J, L, and T.

- 15.4.1.2. Local conditions may dictate a different size or configuration for manhole, in which case it shall be approved by ITS EI - Physical Infrastructure.

- 15.4.1.3. Manholes shall be set with a minimum 2-foot of cover to top of concrete roof and, where possible, placed off of roadways in grass plots, medial strips or lawn areas.

15.4.2. Cast-in-place Manholes:

- 15.4.2.1. All cast in place manholes shall meet the American Association of State Highway and Transportation Officials (AASHTO) specifications.

- 15.4.2.2. All conduits entering or exiting manholes shall be placed the same elevation to permit pull-through cable placement.

- 15.4.2.3. Provide one (1) 30 inch Type-B Neenah number R-1750-C1B, cast iron frame, cover, and racking as specified in the equipment section of this standard.

- 15.4.2.4. Provide a 12 inch round or 12 inch square by 8 inch deep sump hole in the floor under the lid. The floor shall slope to the sump hole.

15.4.3. Communication Manhole Equipment:

- 15.4.3.1. All manholes shall be equipped with 30-inch cast iron frames and covers. The castings shall be set in concrete collars purged to seal. Manholes shall be racked with all galvanized hardware.

- 15.4.3.2. Cast-in-place and nonstandard manholes shall have inserts cast in the walls.

- 15.4.3.3. Provide pulling in irons cast in the walls directly opposite the various duct entrances.

15.4.4. Frame and Cover Adjustments:

- 15.4.4.1. Provide extension rings to extend manhole openings to grade. Rings shall be ordered to fit the appropriate diameter (36-inch, 30-inch or 27-inch) and the appropriate rise required (1 ½-inch, 2-inch or 3-inch).

- 15.4.4.2. An epoxy-based cement be used on the contact surfaces of the extension ring.

- 15.4.4.3. ITS EI - Physical Infrastructure shall determine the use of utilizing extension rings or requiring resetting of the frame.

15.5. Termination, Splicing, and Testing:

15.5.1. Fiber shall be terminated in a Corning Closet Connector Housing (CCH) at each end to facilitate cross-connections.

15.5.2. Fiber shall be terminated with the following type connectors:

15.5.2.1. Corning CCH Pigtail Cassette CCH-CS12-59-POORE.

15.5.2.2. Single-mode fiber shall be fusion spliced to the pre-assembled pigtail within the CCH-CS12-59-POORE cassette loaded with SC connectors.

15.5.3. Constructor shall provide Owner with the following documentation:

15.5.3.1. OTDR trace from each end at 850 nm or 1300 nm 1310 nm 1550 nm.

15.5.3.2. Power meter loss measurements in both directions at a wavelength of 850 nm or 1300 nm 1310nm 1550 nm.

15.5.3.3. A printed copy of all fiber cable test results.

15.6. Testing:

15.6.1. Test all underground pathways by drawing an appropriately sized mandrel through each duct to assure the integrity. Testing to be witnessed by Owner.

III. ARCHITECTURAL

The following information is provided as a general guideline in establishing Architectural project specific requirements.

1. GENERAL

1.1. Building Elevations:

1.1.1. Refer to Section III for information.

1.2. Standard Floor and Room Numbering:

1.2.1. Refer to Section III for information.

2. BUILDING ENVELOPE

2.1. General:

2.1.1. Exterior Wall Insulation:

2.1.1.1. Semi rigid, blanket batt type, glass fiber, unfaced, complying with ASTM C665

2.1.1.2. Shall have ASTM E84 values of flame spread less than 25.

2.1.1.3. Smoke development and fuel contributed less than 50.

- 2.1.2. Use closed cell extruded polystyrene insulation below grade on exterior walls or insulate on the interior face.
- 2.1.3. All foundation walls with accessible or occupied space on one (1) side and soil on the other shall be waterproofed below grade.
- 2.1.4. Drain tiles are to be installed at footings and tied to storm sewer system as allowed by local municipalities.
- 2.1.5. Down spouts shall be tied into storm sewers (in lieu of foundation drain tiles) and shall not discharge on grade.
- 2.1.6. Crawl spaces shall have concrete floor slabs, floor drains, ventilation and lighting.
- 2.2. Exterior Building Materials:
 - 2.2.1. Refer to Section III for information.
- 2.3. Exterior Enclosure Performance Requirements:
 - 2.3.1. Refer to Section III for information.
- 3. ROOFING
 - 3.1. General:
 - 3.1.1. A Sheet Metal Constructor shall fabricate and install all roof related sheet metal flashings and trim. No roofing personnel shall be allowed to fabricate or install roof related sheet metal.
 - 3.1.2. Sealants used in conjunction with roof related sheet metal shall receive a sealant primer and the sealant color shall match that of the adjacent sheet metal.
 - 3.1.3. Abandoned or unused equipment and materials shall be removed on re-roofing projects.
 - 3.1.4. Approved Roofing Manufacturers:
 - 3.1.4.1. EPDM – Black Membrane:
 - 3.1.4.1.1. Carlisle Corporation
 - 3.1.4.1.2. Firestone Building Products Company
 - 3.1.4.2. PVC – White Membrane:
 - 3.1.4.2.1. Sarnafil Corporation
 - 3.1.4.3. KEE – White Membrane:
 - 3.1.4.3.1. Seaman Corporation
 - 3.1.4.4. Metal Roofing Systems:
 - 3.1.4.4.1. ATAS Aluminum Corporation - Monarch

3.1.4.4.2. Butler Manufacturing Company - VSR

3.1.4.4.3. Centria - SRS

3.1.4.4.4. MBCI - LokSeam

3.1.4.4.5. Steelox Systems, Inc. - CF/SD

3.1.4.4.6. Vincent Metals - System 1

3.1.5. Roof Installation:

3.1.5.1. Roofing Constructor shall have the following qualifications:

3.1.5.1.1. A minimum of five (5) years of experience in installation of the specified roofing system.

3.1.5.1.2. Roof Manufacturer Certification as installer for specified roofing systems.

3.1.5.1.3. Roof Foreman and 50 percent of installing crew are trained and certified in the installation of specified roofing system.

3.1.5.1.4. Foreman shall be full-time, at project site, through roof completion.

3.1.6. Roof Warranties and Certification:

3.1.6.1. Roof Manufacturer and roof installer shall provide the following items:

3.1.6.1.1. Roofing Manufacturer guarantee for all materials furnished and work performed under the roofing system contract against defective workmanship for a period of twenty-four (24) months after Substantial Completion. The system may include the following components:

3.1.6.1.1.1. Roofing membrane (built-up felts or single-ply), slate, shingles, or metal roofs

3.1.6.1.1.2. Flashing and counter-flashing

3.1.6.1.1.3. Insulation

3.1.6.1.1.4. Vapor barrier

3.1.6.1.1.5. Fasteners and adhesives

3.1.6.1.1.6. Sealants and caulking

3.1.6.1.1.7. Ballast and ballast stops

3.1.6.1.1.8. Walkway mats and pavers

3.1.6.1.1.9. Roof hatches, pitch pans and equipment curbs

3.1.6.1.1.10. Gutters, downspouts, and fascia panels

3.1.6.1.1.11. Roofing accessories, as required, making a complete roofing system

3.1.6.1.1.12. Coping

3.1.6.1.2. Warranted roof system components shall be identified in the Construction Documents. Roof materials and accessories shall be part of the approved system.

3.1.6.2. Roofing manufacturer shall provide a total system warranty against leaks, defective materials, and workmanship, for a minimum period of fifteen (15) years after Substantial Completion.

3.1.6.3. Warranty shall run concurrently with the roofing installer warranty.

3.1.6.4. Warranty shall cover labor and materials for the complete roofing system.

3.1.6.5. Manufacturer shall be liable for full replacement cost of the roof system, warranty shall have no-dollar limit.

3.1.6.6. Constructor shall provide the Owner with Roof Warranty.

3.1.6.7. Warranty shall not exclude coverage as a result of winds less than the velocity coordinated with the Owner.

3.2. Roofing Systems:

3.2.1. Green Roof Systems:

3.2.1.1. Basis of Design shall be LiveRoof, LLC.

3.2.1.2. Systems shall be pre-vegetated modular trays, minimum tray depth 4 inches.

3.2.1.3. Plantings shall be Sedum mix, reviewed and approved by Owner.

3.2.1.4. System shall include electric vector mapping systems beneath vegetative roof assemblies.

3.2.1.5. System shall include custom, removable housings for roof drain access

3.2.1.6. Systems shall have irrigation water sources spaced no more than 100 feet apart.

3.2.1.7. Hose bib shall be provided, 50-foot spacing minimum.

3.2.2. Metal Roofing-Structural Standing Seam (SSR):

3.2.2.1. Roofing shall be pre-engineered metal running perpendicular to purlins supports. Provide glass batt insulation directly beneath the roofing and over the purlins.

3.2.2.2. Sheets shall have a steel or aluminum core, minimum 22-gauge, and corrosion protection provided by a Kynar-coated finish.

3.2.2.3. Ice guards are required on eaves over sidewalks.

3.2.3. Slate:

3.2.3.1. Use copper nails and ridge caps.

3.2.3.2. Ice guards are required on eaves over sidewalks.

3.2.4. Asphalt Shingles:

3.2.4.1. Provide a pre-finished metal sheet steel drip edge at eaves and gable rakes.

3.2.4.2. Shingles shall be nailed, not stapled.

3.3. Roofing Components:

3.3.1. Roof Membrane and Insulation Assemblies:

3.3.1.1. SBS Type Modified Bitumen Sheet System:

3.3.1.1.1. Membranes to consist of a base sheet, interply sheet and cap sheet of SBS type sheets bonded with cold-process adhesive.

3.3.1.1.2. Fire-rated sheet may be necessary to meet Class A requirements.

3.3.1.1.3. Polyester or fiberglass reinforcement is allowable, per manufacturer's roof systems.

3.3.1.1.4. Standard test methods for sampling and testing Modified Bitumen material shall comply with ASTM D-5147, D-6162, D-6163, and D-6164.

3.3.1.1.5. Insulation shall be selected per current ASHRAE 90.1 guidelines, rigid Polyisocyanurate or extruded polystyrene, as part of roof manufacturer's approved system and included in the total system warranty.

3.3.1.1.6. The specified Insulation shall be compatible with the system and shall be included in the total system warranty.

3.3.1.1.7. It is required that insulation be installed in more than one (1) layer with staggered joints. Use of a recovery board is not considered a layer.

3.3.1.1.8. Substrate Board:

3.3.1.1.8.1. ½ inch thick siliconized gypsum factory-primed on one (1) side for exterior fire rating Class A, as part of roof manufacturer's approved system.

3.3.1.1.8.2. Substrate board shall be installed with staggered joints.

3.3.1.1.9. Surfacing shall be white, ceramic granule surfaced cap sheet.

3.3.1.1.10. Base Flashings:

3.3.1.1.10.1. SBS-type with polyester reinforcement only.

3.3.1.1.10.2.APP-type at non-nailable substrates shall not be used.

3.3.1.1.10.3.SBS-type with granule surfacing and polyester reinforcement as walkways.

3.3.1.1.11. Membrane shall be anchored with non-ferrous termination bars and stainless steel fasteners at wall and deck transition. Termination bars shall be covered with a reglet and counter-flashing.

3.3.1.2. EPDM (non-reinforced) - Fully Adhered:

3.3.1.2.1. Membrane:

3.3.1.2.1.1. Minimum 60 mil thick EPDM non-reinforced sheet.

3.3.1.2.1.2. Seam products shall be pre-manufactured as supplied and approved by manufacturer. Minimum field seam width shall be 5 ½ inches.

3.3.1.2.2. Insulation shall be selected per current ASHRAE 90.1 guidelines, and included in the total system warranty.

3.3.1.2.3. Polyisocyanurate shall have facers designed for EPDM adhesion and shall be approved or manufactured by primary membrane manufacturer.

3.3.1.2.4. Mechanical insulation fasteners, with locking caps, shall be used metal and wood decks.

3.3.1.2.5. Adhere with polyurethane adhesive over concrete substrate and vapor barriers.

3.3.1.2.6. Insulation shall be compatible with the application method required and the other materials of the roofing system and shall be included in the total system warranty.

3.3.1.2.7. Install insulation in more than one (1) layer with staggered joints. Use of a recovery board is not considered a layer.

3.3.1.2.8. Surfacing shall not be required. Use fire rated Class-A system for exterior fire resistance.

3.3.1.2.9. Base Flashings shall be 60 mil EPDM.

3.3.1.2.9.1. Continue field membrane up walls and curbs using non-penetrating attachment methods.

3.3.1.2.9.2. Use details that minimize uncured rubber.

3.3.1.2.9.3. Termination bars shall be covered with a reglet and counter flashing.

3.3.1.2.10. Substrate Board shall be ½ inch thick siliconized gypsum core panel.

3.3.1.3. PVC (reinforced) - Fully Adhered:

- 3.3.1.3.1. Membrane shall be minimum 60 mil thick fabric reinforced sheet with heat weld seaming.
- 3.3.1.3.2. Insulation shall be selected per current ASHRAE 90.1 guidelines, and included in the total system warranty.
- 3.3.1.3.3. The insulation specified shall be compatible with the application method required as well as with the other materials of the roofing system and shall be included in the total system warranty.
- 3.3.1.3.4. Install insulation in more than one (1) layer with staggered joints. Use of a recovery board is not considered a layer.
- 3.3.1.3.5. Substrate Board shall be ½ inch thick siliconized gypsum core panel.
- 3.3.1.3.6. Surfacing not required.
- 3.3.1.3.7. Base Flashings shall be membrane coated metal or reinforced sheet and accessories provided by primary manufacturer.
- 3.3.1.3.8. Anchor membrane with non-ferrous termination bars and stainless steel fasteners at wall and deck transition. Termination bars shall be covered with a reglet and counter-flashing.

3.3.2. Roof Deck:

- 3.3.2.1. Roof deck material shall be a minimum 20-gauge metal deck or a cast in place concrete deck.
- 3.3.2.2. Lightweight concrete shall not be used.
- 3.3.2.3. All wood curbs, blocking, subfascias, etc. shall be preservative-treated material.

3.3.3. Vapor Retarders:

- 3.3.3.1. Refer to Section III for information.

3.4. Accessories:

- 3.4.1. Parapet wall coping shall be constructed with metal selected from one (1) of the following materials
 - 3.4.1.1. Sheet metal, 22-or 24-gauge, galvanized, factory finished with Kynar 500.
 - 3.4.1.2. Copper, ASTM B370, 16 to 20 ounces.
 - 3.4.1.3. Aluminum, .032 inch or .040 inch, factory finished with Kynar 500.
 - 3.4.1.4. Stainless steel, .018 soft buff.
- 3.4.2. Gravel stop and fascia shall be 22-or 24-gauge, galvanized, factory finished with Kynar 500.

- 3.4.3. Installation shall be in accordance with SMACNA minimum standards. End laps and side laps shall provide for thermal expansion. Joints shall have cover and backup plates.
- 3.4.4. Sheet metal roof accessories shall be constructed with metal selected from one (1) of the following materials:
 - 3.4.4.1. Sheet metal, 20-gauge, galvanized, factory finished with Kynar 500.
 - 3.4.4.2. Copper, ASTM B370, 16 to 20 ounce.
 - 3.4.4.3. Aluminum, ASTM B209, alloy 3003, AA-C22A41 clear anodized finish, minimum 20-gauge.
 - 3.4.4.4. Solder, 50/50 ASTM B32.

4. DOORS AND WINDOWS

4.1. Doors:

4.1.1. General

- 4.1.1.1. Only door and frame types and manufactures listed in this section shall be used.
- 4.1.1.2. Doors and hardware shall be installed by the supplier furnishing the doors and frames.
- 4.1.1.3. Supplier shall have been in business at least five (5) years specializing in sales and installation of Contract Grade doors and hardware.
- 4.1.1.4. On-site supervising installer shall have at least five (5) years of experience installing doors and hardware.
- 4.1.1.5. One (1) additional member of the supplier's installation crew shall have at least two (2) years of door and hardware installation experience.
- 4.1.1.6. Installer to follow Manufacturer instructions for templating and installation.
- 4.1.1.7. Pairs of exterior doors requiring exit devices shall have a Von Duprin keyed removable center mullion.
- 4.1.1.8. All doors and frames to be mortised and prepped for all hardware, including electrical hardware furnished by the hardware supplier or the access control supplier.

4.1.2. Hollow-Metal Frames:

- 4.1.2.1. All wood and hollow-metal doors shall be installed in hollow-metal frames.
- 4.1.2.2. All Hollow-metal frames in new construction shall be welded, ground and finished smooth.
- 4.1.2.3. Frames shall be reinforced with 12-gauge steel for all surface mounted hardware.
- 4.1.2.4. Grouted and Exterior door frames shall be A60 galvanized and primed. Frames shall be factory-prime painted per ANSI/SDI A250.10-1998 (R2011).
- 4.1.2.5. Frames and anchors in interior, wash-down spaces shall be 316, #4 finish stainless steel.

- 4.1.2.6. Frames in masonry walls shall be grouted as the masonry units are laid. Use mortar, maximum 4 inch slump, hand trowel method.
- 4.1.2.7. Grouted frames shall be A60 galvanized.
- 4.1.2.8. Install polystyrene rigid insulation fillers, cut to profile, to keep grout out of bottom 6 inches of frame.
- 4.1.2.9. Frames shall be braced at bottom and mid-point prior to grouting or installation of wall board.
- 4.1.2.10. Frames in stud walls shall be filled with fiberglass insulation.
- 4.1.2.11. Materials and installation shall comply with Steel Door Institute standards ANSI/SDI-100 A250.8-2003.
- 4.1.2.12. Exterior frames shall be 12-gauge. Interior high-frequency frames shall be 14-gauge. Interior, low-frequency frames shall be 16-gauge. Prior approval from Owner is required to designate low-frequency frames.
- 4.1.2.13. Shop or field applied prime and/or paint to match color of factory applied prime and/or paint.
- 4.1.3. Hollow-Metal Doors:
 - 4.1.3.1. All doors shall be 1 ¾ inch thick.
 - 4.1.3.2. Hollow-metal doors shall have steel stiffened cores. Steel ribs shall be 22-gauge, welded at both ends.
 - 4.1.3.3. Exterior doors and doors in high moisture interior spaces shall be A60 galvanized.
 - 4.1.3.4. Doors in interior wash down spaces shall be A60 galvanized or stainless steel.
 - 4.1.3.5. The top edge of exterior doors and doors in interior, high moisture or wash down spaces shall have inverted steel channel closures, installed flush, tack welded in place, filled and finished smooth.
 - 4.1.3.6. Full lite doors shall have tubular stile and rail construction. Exterior door faces shall be 14-gauge steel and meet Level 4/Model 2 standards.
 - 4.1.3.7. Interior door faces shall be 16-gauge steel and meet Level 3/Model 2 standards.
 - 4.1.3.8. Doors shall be reinforced with 14-gauge steel for surface-mounted hardware.
 - 4.1.3.9. All door seams shall have 1 inch welds, every 6 inches on center, ground and be finished smooth. Door edges shall be fabricated utilizing beveled edges on hinge and lock stiles.
 - 4.1.3.10. Materials, storage and installation shall comply with current Steel Door Institute standards ANSI/SDI-100 A250.8-2003.
 - 4.1.3.11. Doors shall be factory prime painted per current ANSI/SDI A250.10-1998.

4.1.3.12. Doors shall be Curries 747T or Steelcraft BW.

4.1.3.13. Shop or field applied prime and/or paint to match color of factory applied prime and/or paint.

4.1.4. Wood Doors:

4.1.4.1. Exterior wood doors are not allowed.

4.1.4.2. Wood doors shall be 5-ply solid-core and comply with WDMA IS 1A-11 Window and Door Manufacturers Association standards.

4.1.4.3. Performance standard to meet WDMA IS 1A-11, Extra Heavy Duty.

4.1.4.4. Aesthetic grade to meet WDMA IS 1A-11, Custom Grade.

4.1.4.5. Face veneers shall be A-grade, plane sliced, book and running matched. Allowable veneer species are red oak, select white birch, select white maple and cherry.

4.1.4.6. Doors shall be factory prefinished, System TR-6, per WDMA IS.1A-11. Finish shall be factory standard colors.

4.1.4.7. All doors shall be factory pre-machined for all mortise hardware, including face holes and race ways, as required for specified hardware.

4.1.4.8. Crossbands shall be wood-based composites, minimum thickness of 1/16 inch and extend the full width of the door.

4.1.4.9. Crossbands and face veneers shall be laminated to the core with Type 2 interior-use glue using the Hot Press process.

4.1.4.10. Non Fire-Rated:

4.1.4.10.1. Non fire-rated wood doors shall be Custom Grade and constructed using WDMA 5-ply hot press method for laminating door materials.

4.1.4.10.2. Core-type shall be Structural Composite Lumber Core (SCLC-5).

4.1.4.10.3. Stiles and rails shall be securely bonded to the core and then abrasively planed prior to veneering.

4.1.4.10.4. Stiles shall be hardwood, one (1) piece, laminated or veneered.

4.1.4.10.5. Rails shall be solid wood, structural composite lumber meeting the minimum requirements of WDMA, or medium density fiberboard meeting requirements of ANSI 208.2 (Medium Density Fiberboard for Interior Use).

4.1.4.10.6. Constructions with laminated edges may use structural composite lumber, as an inner stile component.

4.1.4.11. Fire-Rated:

- 4.1.4.11.1. Fire-rated wood doors shall be WDMA 5-ply construction, using Hot Press method for laminating door materials.
- 4.1.4.11.2. 20 minute and 45 minute rated doors shall be Structural Composite Lumber Core (SCLC-5). 60 minute to 90 minute rated doors shall be Mineral Core.
- 4.1.4.11.3. Stiles shall consist of manufacturer's standard laminated edge construction with improved screw-holding capability and split resistance.
- 4.1.4.11.4. Inner and outer stiles shall not contain salt treating.
- 4.1.4.11.5. Rails shall be solid wood or other material contained in manufacturer's fire door approvals.
- 4.1.4.11.6. For mineral core doors, top rails shall be minimum 5 inch, bottom rails shall be minimum 5 ½ inch bottom. Minimum lock block size shall be 4 ½ inches by 10 inches.
- 4.1.4.11.7. Doors with exit devices shall also have hinge-edge blocking and top and bottom latch blocking to match specified exit devices.
- 4.1.4.11.8. Fire ratings shall comply with positive pressure requirements UL 10C/UBC7-2-97, with concealed intumescent.
- 4.1.5. Aluminum and Glass Storefront Doors and Framing:
 - 4.1.5.1. Kawneer 500 Tuffline doors shall be used as the basis of design. Kawneer 560 Insulclad framing shall be used as the basis of design.
 - 4.1.5.2. Bottom rail shall be minimum 10 inches high, top rail shall be minimum 5 inches high, intermediate rail shall be 5 inches and stiles shall be minimum 5 inches wide.
 - 4.1.5.3. Frame walls and door extrusions to be 3/16 inch thick.
 - 4.1.5.4. Top and bottom of rails shall be welded to stiles. All welds shall be concealed.
 - 4.1.5.5. Exterior doors shall have a sealed, flush top cap and weather-stripping.
 - 4.1.5.6. Exterior doors shall not have thermal break construction.
 - 4.1.5.7. Exterior aluminum storefront framing shall have thermal break construction.
 - 4.1.5.8. Storefronts shall comply with American Architectural Metal Association (AAMA) standards.
- 4.1.6. Rolling fire doors and fire shutters activated by fusible link, local smoke/fire detector or central smoke/fire alarm system.
 - 4.1.6.1. Rolling fire doors shall only be permitted to avoid atriums
 - 4.1.6.2. Doors shall automatically release only when activated by an alarm signal.
 - 4.1.6.3. Doors shall maintain an average closing speed not to exceed 9 inches (229 mm) per second during closing.

4.1.6.4. Manual push buttons shall be inoperable when automatic closure is activated.

4.1.6.5. Doors shall be connected to emergency power.

4.1.6.6. Doors shall have motor operated reset.

4.2. Hardware:

4.2.1. General

4.2.1.1. Hardware Types and Manufactures listed in this section shall be used.

4.2.1.2. Doors and hardware shall be installed by the supplier furnishing the doors and frames.

4.2.1.3. Supplier shall have been in business at least five (5) years specializing in sales and installation of Contract Grade doors and hardware.

4.2.1.4. On-site supervising installer shall have at least five (5) years of experience installing doors and hardware.

4.2.1.5. One (1) additional member of the supplier's installation crew shall have at least two (2) years of door and hardware installation experience.

4.2.1.6. Installer to follow Manufacturer instructions for templating and installation.

4.2.1.7. Installer, supplier, Constructor, Design Professional and Owner shall convene for a pre-installation meeting prior to installation of doors and hardware.

4.2.2. Submittals and Shop Drawings:

4.2.2.1. Hardware schedule submittals shall be in vertical format.

4.2.2.2. All openings with electrified hardware shall include a function narrative.

4.2.2.3. Submittal shall include a Project Keying Schedule as indicated below. Submit electronic file in Microsoft Excel.

Project Keying Schedule								
By Contractor					By Owner			
Door No.	Lock Function	Room Number	Room Description	Hardware Set No.	Super Key File	Arch. Key No.	No. of Cores	No. of Keys
L001	CR x xCN8805FL x 626	L001A	Chemical Storage	3A				

4.2.3. Exit only doors shall have hardware on the egress side only.

4.2.4. Panic devices on doors with access controls shall utilize electronic trim.

4.2.5. Doors with power operators shall have electronic latch retraction and electrified trim.

4.2.6. Exterior trim shall be fail secure.

- 4.2.7. Electronic strikes shall not be used.
- 4.2.8. Hardware finish shall be either US32D (BHMA 630) or US26D (BHMA 626 or 652).
- 4.2.9. Hinges:
 - 4.2.9.1. Manufacturers shall be Stanley or McKinney.
 - 4.2.9.2. All hinges shall be concealed ball bearing.
 - 4.2.9.3. Exterior door hinges shall be heavy weight, 5 inches by 4 ½ inches by 0.190 inches. Interior door hinges shall be 4 ½ inches by 4 ½ inches. Medium and high frequency interior doors shall be heavy weight, .180 metal thickness. Low frequency doors to have standard weight, .134 metal thickness.
 - 4.2.9.4. All exterior doors, all interior corridor doors, and all mineral core fire doors that are 6 foot 8 inches tall or taller shall be hung with four (4) hinges.
 - 4.2.9.5. All doors 3 foot 6 inches wide or wider shall be hung with four (4) hinges.
 - 4.2.9.6. Hinges in stainless steel frames shall be stainless steel.
 - 4.2.9.7. All exterior door hinges shall be stainless steel.
 - 4.2.9.8. All hinges in moist and corrosive environment areas to be stainless steel.
 - 4.2.9.9. All exit only or lockable out-swinging doors shall have non-removable pins.
- 4.2.10. Locksets and Latchsets:
 - 4.2.10.1. Locksets and latchsets shall be mortise type.
 - 4.2.10.2. Approved manufacturers for new buildings are Yale 8800 CRCN, Sargent 8200 LW1J, or Schlage L series 03N.
 - 4.2.10.3. Refer to *LOCKSET TYPES BY BUILDING DETAILS* in Appendices for manufacturer and models to match existing buildings.
 - 4.2.10.4. Electronic locksets shall have request to exit and latch bolt monitoring switches.
 - 4.2.10.5. Electromagnetic locks are not allowed.
- 4.2.11. Cylinders and Keying:
 - 4.2.11.1. Construction keying and cylinders shall be provided and installed by the Constructor and two (2) construction and control keys shall be provided to Key & Access Services.
 - 4.2.11.2. All permanent cores shall be provided by the Constructor. Keying and installation of the permanent cores and cylinders shall be provided by the Owner. Cutting of all final keys shall be by Owner.

- 4.2.11.3. Constructor shall provide ten (10) key blanks for each cylinder keyed to building user key system. Furnish one key blank for each cylinder on access controlled doors and Facilities Management doors.
- 4.2.11.4. Key system for new buildings shall be Schlage Small Format Interchangeable Core, B or R Series restricted keyway.
- 4.2.11.5. Key systems for existing buildings shall be verified with Owner.
- 4.2.11.6. Lock cylinders used in ITS telecommunication rooms, Facilities Management electrical, mechanical, elevator, and custodial spaces and doors receiving access control hardware shall accept Schlage small format interchangeable core.
- 4.2.11.7. Electronic mortise locks and panic devices shall have a keyed cylinder and be fail-secure on all exterior doors.
- 4.2.11.8. Hardware supplier to furnish cylinders and cores, as required, for key switches and specialty doors where remainder of hardware is furnished by specialty door manufacturer
- 4.2.12. Exit Devices:
 - 4.2.12.1. Exit devices shall be Von Duprin 98 series.
 - 4.2.12.2. Von Duprin 94 Series Impact device shall be used on door that is fire-rated, cross-corridor, non-locking and held open at all times.
 - 4.2.12.3. In multiple-door entries, only one (1) doorway shall be keyed from the exterior.
 - 4.2.12.4. Provide cylinder dogging on all non-rated devices except exit only doors.
 - 4.2.12.5. On interior pairs of doors, surface mounted, vertical rod, top rod only exit devices may be used with Owner approval. Device shall be through-bolted.
 - 4.2.12.6. Electronic Non-Rated Exit Devices:
 - 4.2.12.6.1. Exit devices with latch retraction shall have special center case "SD" dogging.
 - 4.2.12.6.2. Exit devices with electric trim shall have cylinder dogging.
 - 4.2.12.6.3. Entrance doors requiring a power operator, exit device, and access control shall use Von Duprin LX-RX-LC-SD-EL x XP98L-E996L-03 (FSE) exit device.
- 4.2.13. Pulls and Push Plates:
 - 4.2.13.1. Pulls shall be straight with no offset, 1 ¼ inch diameter, 2 ½ inch clearance between back of pull and face of door, fastened with 3/8 inch diameter through bolts. Rockwood RM301 shall be basis of design.
 - 4.2.13.2. Provide pull backup plates at all push/pull doors, except stainless steel or aluminum. Backup plate shall be minimum 4 inches by minimum 16 inches, 0.050 stainless steel.
 - 4.2.13.3. Push plates shall be minimum 6 inches by minimum 24 inches, 0.050 stainless steel.

4.2.14. Flushbolts:

4.2.14.1. Flushbolts shall be Ives FB51T, constant latching, top bolt only.

4.2.14.2. Where required by code, provide Ives FB31T or FB32 automatic on metal doors or Rockwood 1960 on wood doors, less fire bolt on non-rated wood doors.

4.2.15. Door Closers:

4.2.15.1. Door closers shall be LCN 4040XP.

4.2.15.2. Classrooms or auditoriums with occupancy of 50 or more shall require LCN 4410HSA, electric, motion sensor hold open closers.

4.2.15.3. Closer covers shall be plastic.

4.2.15.4. All labeled doors with LCN 4410HSA closers shall be connected to the building fire alarm system.

4.2.15.5. Closer shall be mounted on side of door for least visibility, unless required for maximum door swing or to protect closer from the environment, moisture, or carts.

4.2.15.6. Closers in moist and corrosive environment areas to have SRI primer.

4.2.15.7. All door closers shall be through bolted to door.

4.2.15.8. All closers shall be field adjusted to comply with all applicable codes and standards.

4.2.15.8.1. Adjust spring power, closing (main) speed, latch speed, back check and delayed action adjustment, if included, to comply with Department of Justice ADA Standards for Accessible Design and applicable building codes. Door Hardware Installer shall document adjustments for each door on the Door Schedule.

4.2.15.8.2. For projects that require mechanical system adjustments after hardware installation, closers shall be retested and readjusted to ensure compliance following testing and balancing procedures.

4.2.15.8.3. Interior non-fire rated doors and gates with closers shall meet the following standards:

4.2.15.8.3.1. Latch shall release with no more than 15 pounds of force on the door handle or exit devices.

4.2.15.8.3.2. Closing speed from 90-degrees to 12-degrees shall be a minimum of 5 seconds.

4.2.15.8.3.3. Closing speed for delayed action closers shall be not more than 10 seconds, unless required otherwise.

4.2.15.8.3.4. Opening force after door has had the latch released and is started in motion is to be 5 pounds as tested with ADA Accessibility Force spring gauge placed immediately above latching hardware and 2 ½" for latch edge of door.

- 4.2.15.8.3.5. Back check shall be adjusted so door does not slam into any obstructions and starts to check opening of door 15-degrees before door is to stop.
- 4.2.15.8.4. Exterior door and fire-rated doors are required to positively latch and shall be adjusted as near to 5 pounds of opening force as possible.
- 4.2.15.8.5. Closing device types include:
 - 4.2.15.8.5.1. Standard Closer
 - 4.2.15.8.5.2. Automatic Operator
 - 4.2.15.8.5.3. Electric Motion Sensor Hold Open Closer
 - 4.2.15.8.5.4. Spring Hinges
- 4.2.15.8.6. Door Hardware Installer shall prepare a schedule, including all doors with closing devices, and record the associated test results for each. Schedule shall include the following information:
 - 4.2.15.8.6.1. Door Number
 - 4.2.15.8.6.2. Door Location
 - 4.2.15.8.6.3. Door Width
 - 4.2.15.8.6.4. Closing Device Type
 - 4.2.15.8.6.5. Opening Force
 - 4.2.15.8.6.6. Closing Time
 - 4.2.15.8.6.7. Latch Release Force
 - 4.2.15.8.6.8. Notes (as applicable)
- 4.2.15.8.7. Prior to submission of Final Door Schedule by Door Hardware Installer, Owner's Representative shall witness Door Hardware Installer testing of up to 10 percent of installed doors with closing devices.
 - 4.2.15.8.7.1. Doors shall be randomly selected by Owner's Representative
 - 4.2.15.8.7.2. If doors do not comply with the previously recorded test results, additional doors shall be tested.
 - 4.2.15.8.7.3. Owner's Representative shall witness Door Hardware Installer retesting of failed doors after required adjustments are completed.
 - 4.2.15.8.7.4. Final Door Schedule shall be submitted as a closeout item after all deficiencies have been corrected.

4.2.15.9. Supplier shall furnish all drop plates and mounting brackets as required for proper installation.

4.2.16. Power Operators:

4.2.16.1. Power operators shall be Electrohydraulic LCN model #4630 / 4640, thru-bolted with concealed switch (CS) option.

4.2.16.2. Actuators shall be Wikk Industries, Inc. Ingress'r I36-3, 36 inches in height, 316 Stainless Steel 630 finish, hardwired.

4.2.16.3. Actuator shall be installed with bottom of actuator 6 inches above finished floor.

4.2.16.4. Actuator to be located a minimum of 36 inches from the leading edge of the door, in the open position.

4.2.16.5. Automatic operators on exterior doors and their corresponding vestibule door shall be wired for sequential operation.

4.2.16.6. All on/off and hold-open switches shall be concealed.

4.2.16.7. All door operator arms shall be through bolted to door.

4.2.16.8. Adjust all operators at installation. After all mechanical systems are operating, field readjust as required. For manual operation, power operators shall comply with requirements listed in article 4.2.15 Door Closers.

4.2.16.9. Supplier shall furnish all drop plates and mounting brackets as required for proper installation.

4.2.17. Coordinators:

4.2.17.1. Coordinators shall be Trimco 3092 or Rockwood 1700.

4.2.18. Protection Plates:

4.2.18.1. Bottom of protection plates shall be mounted ¼ inch from the bottom of the door.

4.2.18.2. Protection plate height shall be minimum 10 inches high by door width, less 1 ½ inch, centered horizontally on door, 0.050 stainless steel.

4.2.18.3. Custodial spaces and other rooms with cart traffic to have armor plates, minimum 34 inch high by door width, less 1 ½ inch, centered horizontally on door, 0.050 stainless steel.

4.2.18.4. Protection plates shall be fastened with countersunk, oval head, under cut screws.

4.2.18.5. All four edges shall be beveled.

4.2.18.6. Where subject to cart damage, Provide Rockwood R115LPB protection bars for lever handles and Rockwood HD2230 protection bars for exit devices.

4.2.19. Door Stops and Holders:

- 4.2.19.1. Wall bumpers shall be Rockwood 400 or Ives WS402CVZX, cast brass or bronze housing. All wall bumpers in stud walls shall have backing.
- 4.2.19.2. Overhead door stops shall only be used with prior approval from Owner. Overhead door stops shall be Glynn-Johnson 90 series, manual.
- 4.2.19.3. Overhead stops/holders shall be surface-mounted.
- 4.2.19.4. All exterior doors that have overhead stops shall have floor stops. Floor stops shall be Rockwood 466 or 467 or Ives FS18S and FS18L.
- 4.2.19.5. Floor stops shall not be used on interior doors.
- 4.2.20. Weather-Strip:
 - 4.2.20.1. Weather-strip shall be Reese 769C with TEK screws and polyurethane rubber.
 - 4.2.20.2. Install a screw maximum 1 inch from ends of weather strip.
 - 4.2.20.3. Weather strip piece at hinge jamb shall be installed on face of door to compress against stop.
- 4.2.21. Sweeps:
 - 4.2.21.1. Typical sweeps shall be Reese 772C with TEK screws and polyurethane rubber.
 - 4.2.21.2. Automatic door bottom shall be Zero 367, 368, or 369 with magnet to assist in spring-action. Color shall be clear aluminum or dark bronze to match frame.
- 4.2.22. Gasketing:
 - 4.2.22.1. Gasketing shall be Reese 797, white or black to match color of frame.
 - 4.2.22.2. Acoustical gasketing shall be Pemko 350 SPK. Color shall be clear aluminum or dark bronze to match frame.
- 4.2.23. Thresholds:
 - 4.2.23.1. Unless prohibited by sill condition, thresholds shall be Reese S471A with thermal break.
 - 4.2.23.2. Furnish threshold 4 inches longer than door opening and cope around frame face.
- 4.2.24. Power Transfers:
 - 4.2.24.1. Power transfers shall be Securitron CEPT-10.
 - 4.2.24.2. Electric hinges may only be used with existing frames or 1 inch face jambs.
 - 4.2.24.3. Power transfers and electric hinges shall have two (2) 18-gauge wires and six (6) or eight (8) 22- or 28-gauge wires.
- 4.2.25. Electronic Hold Opens:

4.2.25.1. Magnetic hold opens shall be LCN 7800 series, 24 volt, wall-mounted. Housings shall be metal. Floor mounted magnetic closure shall only be used with prior approval from Owner.

4.2.25.2. Electronic hold open/closures shall be LCN 4040SE 24 volt, Sentronic. Electronic hold open/closures shall only be used when magnetic hold opens are not feasible.

4.2.26. Power Supplies:

4.2.26.1. Power supply shall be Von Duprin PS914 900-2RS 900-BBK.

4.2.26.2. 900 KL key-lock shall be used for installations in public areas.

4.2.26.3. Power supplies for electronic latch retraction panic devices shall have battery backup and be supplied by the door hardware provider.

4.2.26.4. Power supplies for electric trim, electric locks, and electric strikes shall be provided by the Access Control Constructor.

4.3. Windows:

4.3.1. All operating mechanisms shall be heavy-duty and institutional-grade.

4.3.2. Window units shall comply with ASTM E283, E331, and E547.

4.3.3. Owner shall retain a Testing Firm to perform tests on randomly chosen installed window units. Constructor shall be responsible for retesting units that have failed.

4.4. Glass and Glazing:

4.4.1. Glazing in new windows, doors, storefronts, etc. shall carry a ten (10) year manufacturer's warranty.

4.5. Joint Sealants:

4.5.1. Exterior sealants require the use of a sealant primer.

4.5.2. Neutral Cure Silicone or Polyether sealant shall be used in the following:

4.5.2.1. Exterior and interior joints in horizontal concrete surfaces.

4.5.2.2. Between metal and concrete, mortar, stone or masonry.

4.5.3. One-Part mildew-resistant silicone shall be used at interior joints in vertical surfaces of toilet room, shower, and kitchen ceramic tile.

4.5.4. Acrylic-emulsion sealant shall be used at interior joints in field-painted vertical and overhead surfaces of elevator door frames and hollow metal door frames, gypsum drywall, plaster, concrete or concrete masonry, and other interior joints not subject to movement.

5. FINISHES

5.1. Wall Systems:

- 5.1.1. Use 5/8 inch Type X fire code drywall construction
- 5.1.2. Mold resistant drywall shall be used in intermittently wet areas (restrooms, wash rooms, custodial spaces, etc.)
- 5.1.3. 20-gauge (0.0329 inch) minimum studs shall be used. Specify both gauge and thickness. Wood studs shall not be used.
- 5.1.4. Control joints shall be installed every 30 feet and at both corners of door frames.
- 5.1.5. Four (4) coats (Level IV) of drywall finishing material, one (1) embed, two (2) fill, and one (1) finish, shall be used in exposed applications. Finish coat and sanding may be omitted in concealed applications.
- 5.1.6. Demountable panel systems require Owner approval.
- 5.1.7. Wall Finishes:
 - 5.1.7.1. Restroom tile shall be minimum height of 54 inches and extend above top of fixtures.
 - 5.1.7.2. Chair rail height shall be determined by chair selection (when required).
- 5.2. Ceiling Systems:
 - 5.2.1. Gypsum Board Ceilings:
 - 5.2.1.1. Textured finishes shall not be used on drywall ceilings.
 - 5.2.2. Acoustical Tile Ceilings:
 - 5.2.2.1. Ceiling grid shall be an intermediate duty exposed system conforming to ASTM C635 (1 inch wide grid). Basis of design shall be Chicago Metallic 200 Snap Grid.
 - 5.2.2.2. Suspend ceiling grid directly from the building structure.
 - 5.2.2.3. Ceiling tile basis of design shall be Armstrong Ultima, 2 foot by 4 foot and/or 2 foot by 2 foot.
 - 5.2.2.4. Reveal edge tiles require Owner approval.
 - 5.2.3. Concealed spline or tongue and groove ceiling systems shall not be used.
 - 5.2.4. Means of access shall be maintained to the plenum space and above ceiling devices.
- 5.3. Paint Finishes:
 - 5.3.1. Wall:
 - 5.3.1.1. Wall finish shall be washable, durable, and consist of two (2) coats, plus primer, of latex eggshell or satin paint.
 - 5.3.1.2. Flat paint shall not be used.

- 5.3.2. Semi-gloss paint shall be used in all painted public areas on veneer plaster or concrete masonry units. Ceiling finish shall be two (2) coats, plus primer, of latex flat paint.
- 5.3.3. Painted door, window, and miscellaneous trim finish shall be two (2) coats, plus primer, of latex or alkyd enamel semi-gloss paint.
- 5.3.4. Stained door, window, and miscellaneous wood trim finish shall be high sheen / gloss, oil based with a urethane topcoat.
- 5.3.5. Epoxy paints shall be 2-part systems.
- 5.4. Floor Finishes:
 - 5.4.1. Entry Mats:
 - 5.4.1.1. Basis of Design shall be linked tread, 3M Nomad floor mats.
 - 5.4.2. Vinyl composition tile shall be a minimum 1/8 inch thick.
 - 5.4.3. Slip resistant tile shall be used on slopes and inclines.
 - 5.4.4. Epoxy resin floor color shall be integral to flooring material. Surface coloring shall not be used.
 - 5.4.5. Ceramic tile grout shall be pigmented or natural gray. White or near white grout shall not be used. Joints shall be sealed with a silicone based product.
 - 5.4.6. Ceramic tile in showers and restrooms shall be:
 - 5.4.6.1. Waterproofed with impregnator sealant.
 - 5.4.6.2. Epoxy grouted.
 - 5.4.7. Select larger size tile to minimize grout lines.
 - 5.4.8. Ceramic tile base/cove shall be curved rather than a 90-degree angle.
 - 5.4.9. Carpet and Base:
 - 5.4.9.1. Submit carpet seaming diagram for Owner approval prior to ordering material.
 - 5.4.9.2. Carpet:
 - 5.4.9.2.1. Fiber: nylon type 6 or 6.6.
 - 5.4.9.2.2. Construction: Tufted loop pile.
 - 5.4.9.2.3. Color: Multi-color yarn system.
 - 5.4.9.2.4. Carpet tile face weight: minimum 16 ounces.
 - 5.4.9.2.5. Broadloom face weight: minimum 22 ounces.
 - 5.4.9.3. Resilient base shall be 1/8 inch thick vinyl or rubber.

5.4.9.4. Base joints shall be at inside corners and no closer than 24 inches to an external corner.

5.4.9.5. Continuous, rolled base shall be used.

5.4.9.6. Wood Base shall be hardwood species only.

6. FURNISHINGS

6.1. Window Treatments:

6.1.1. Basis of Design shall be MechoShade.

6.1.2. Exterior shades are not allowed.

7. SIGNAGE

7.1. General:

7.1.1. Modular inserts shall be adhered with tamper-proof fastener system.

7.1.2. Signage Installation:

7.1.2.1. Verify with Owner prior to specifying mounting systems which will permanently impact architectural finishes.

7.1.2.2. Wall Mounted Signage:

7.1.2.2.1. Typical wall-mounted sign installation shall be double-sided foam tape and silicone adhesive.

7.1.2.2.2. Signs exceeding the adhesive strength of double-sided foam tape shall have additional threaded studs attached to wall surface.

7.1.2.2.3. Projecting flag identification shall be mechanically fastened to wall.

7.1.2.3. Signs mounted to glass shall have a backer panel of matching size on the second surface of the glass.

7.1.2.4. Stone Mounted Signage:

7.1.2.4.1. Architectural lettering shall be securely mounted with vandal and tamper resistant method appropriate to wall surface.

7.1.2.4.2. Threaded studs, set in non-shrinking grout, shall be used wherever possible.

7.1.2.4.3. Signs and lettering mounted to limestone or similar natural stone surfaces shall not use silicone adhesive or double-sided tape.

7.1.2.5. Ceiling Mounted Signage:

7.1.2.5.1. Signs hanging from ceiling or projecting from wall shall be mounted away from sprinklers and shall not obscure site lines to fire exit signage.

7.1.2.5.2. Bottom of sign shall be above door swing.

7.1.2.5.3. Sign shall be attached to structure, fastened to drywall, plaster, or suspended by cable. Cable shall be stainless steel and aircraft quality or equal.

7.1.2.5.4. Signs shall not be attached to suspended ceiling grid systems.

7.1.2.5.4.1. If structure is inaccessible, review alternatives with Owner.

7.1.2.5.4.2. Hole where cable passes through ceiling tile shall match dimension of suspension system.

7.2. Interior Signage:

7.2.1. Refer to Section III for information.

7.3. Exterior Signage:

7.3.1. Refer to Section III for information.

8. SPECIALTIES

8.1. Visual Display and Bulletin Boards:

8.1.1. Refer to Section III for information.

8.2. Projection Screens:

8.2.1. Refer to Section III for information.

8.3. Restrooms and Restroom Accessories:

8.3.1. Restrooms:

8.3.1.1. Hand-operated flush controls within accessible toilet stalls shall be located on the open side of the water closet.

8.3.2. Toilet Partitions:

8.3.2.1. Wall Hung Urinal Screens shall have integral wall-mounting flange or continuous wall-mounting bracket specified as a "Government Screen."

8.3.2.2. Blocking shall be installed for all wall-mounted partitions.

8.3.2.3. Partitions shall have Trimco 3071-1 x 32D hook with through bolts and security Torx head screws.

8.3.3. Restroom Accessories:

8.3.3.1. Owner shall provide one (1) triple-roll Renown toilet tissue dispenser per water closet. Constructor to mount dispenser above the ADA handrail (if present) on the wall adjacent to the latch side of the stall door (if present).

8.3.3.2. Toilet tissue dispenser locking mechanism shall not be blocked by ADA handrails.

8.3.3.3. Provide one (1) through-bolted double-hook inside of each stall door.

8.3.3.4. Owner shall provide Renown foam soap dispensers.

8.3.3.4.1. Constructor to wall mount soap dispenser above each lavatory.

8.3.3.4.2. Allow enough space to open and fill dispenser.

8.3.3.5. Hand Dryers:

8.3.3.5.1. Constructor to provide one (1) Dyson Airblade V electric hand dryer per two (2) lavatories, and a minimum of two (2) dryers for three (3) or more lavatories.

8.3.3.5.2. Single unit installation height shall be 38 inches above finished floor to top of unit. For two (2) units, one (1) shall be at 34 inches above finished floor and the second shall be at 41 inches above finished floor.

8.3.3.5.3. Owner shall provide one (1) Sharps container for each restroom. Manufacturer shall be Bemis 3 quart translucent beige, number 125 020 with wall-safe bracket and key. Constructor shall mount in an unobstructed area, at 48 inches above finished floor to container inlet opening.

8.4. Lactation Rooms:

8.4.1. Soap dispenser and paper towel dispenser shall be wall-mounted next to the sink.

8.4.2. Minimum of three (3) single or two (2) double coat hooks shall be installed on wall.

8.4.3. Mount bulletin board and clock so visible from the seated position.

8.5. Shower and Locker Rooms:

8.5.1. Refer to Section III for information.

8.6. Recycle and Landfill (Trash) Receptacles:

8.6.1. Refer to Section III for information.

8.7. Vending Spaces:

8.7.1. Refer to Section III for information.

8.8. Custodial Spaces:

8.8.1. Custodial Work Control Center:

8.8.1.1. Light fixture(s) shall have safety guards.

8.8.1.2. Provide smooth floor transition from hall to room.

8.8.2. Supply Storage and Delivery Room:

8.8.2.1. The bottom shelf shall be 2 feet 6 inches above finished floor. Shelves shall be spaced 1 foot 8 inches apart, running the full length of long wall.

8.8.2.2. Light fixture(s) shall have safety guards.

8.8.2.3. Door shall have closer and armor plate.

8.8.2.4. Provide smooth floor transition from hall to room.

8.8.3. Equipment Storage Room:

8.8.3.1. Chemical dispensing unit shall be hard piped with cold water feed.

8.8.3.2. Protect all hose connected equipment with Watts 289 spill-proof vacuum breaker. Install minimum 6 inches above the expected point of use.

8.8.3.3. Light fixture(s) shall have safety guards.

8.8.3.4. Door shall have closer and armor plate.

8.8.3.5. Provide smooth floor transition from hall to room.

8.8.4. Custodial Service Room:

8.8.4.1. Protect all hose connected equipment with Watts 289 spill-proof vacuum breaker. Install minimum 60 inches above finished floor.

8.8.4.2. Light fixture(s) shall have safety guards.

8.8.4.3. Door shall have closer and armor plate.

8.8.4.4. Provide smooth floor transition from hall to room.

8.8.5. Heavy Equipment Room:

8.8.5.1. Light fixture(s) shall have safety guards.

8.8.5.2. Door shall have closer and armor plate.

8.8.5.3. Provide smooth floor transition from hall to room.

8.8.6. Light Bulb Storage Room:

8.8.6.1. Door shall have closer and armor plate.

8.8.6.2. Provide smooth floor transition from hall to room.

8.9. Maintenance Rooms:

8.9.1. Building Maintenance Work Control Center:

8.9.1.1. Light fixture(s) shall have safety guards.

- 8.9.1.2. Provide smooth floor transition from hall to room.
- 8.9.2. Building Maintenance Shop:
 - 8.9.2.1. Light fixture(s) shall have safety guards.
 - 8.9.2.2. Provide smooth floor transition from hall to room.
- 8.9.3. Building Maintenance Material / Equipment Storage Room:
 - 8.9.3.1. Light fixture(s) shall have safety guards.
 - 8.9.3.2. Door shall have closer and armor plate.
 - 8.9.3.3. Provide smooth floor transition from hall to room.
- 8.9.4. All receptacles shall have a dedicated neutral and a dedicated ground.
- 8.10. Telecommunication Rooms (TR):
 - 8.10.1. Walls shall extend to structure.
 - 8.10.2. Walls and plywood shall be painted extra white, Sherwin Williams B24W02651, minimum two (2) coats.
 - 8.10.3. Overhead structure to be painted Sherwin Williams B24W02651.
 - 8.10.4. Floor finish shall be vinyl composition tile, Armstrong VCT51911 Classic White.
 - 8.10.5. Secure Room door(s) with AMAG access control.
 - 8.10.6. Provide cages on all fire suppression sprinklers.
- 8.11. Classrooms - General Assignment:
 - 8.11.1. Refer to Section III for information.
- 8.12. Offices:
 - 8.12.1. Refer to Section III for information.
- 8.13. Loading Dock Facilities:
 - 8.13.1. Refer to Section III for information.
- 8.14. Animal Rooms:
 - 8.14.1. Refer to Section III for information.
- 9. CONVEYING SYSTEMS
 - 9.1. General:

9.1.1. Refer to Section III for information.

9.2. Elevators:

9.2.1. Control system shall be provided with all available diagnostic tool functions, either onboard or in a separate device.

9.2.2. Acceptable manufacturers for Controllers:

9.2.2.1. Motion Control Engineering (MCD)

9.2.2.2. GAL Manufacturing Corporation

9.2.3. Maintenance, adjustment and troubleshooting devices or systems shall provide unrestricted access to all parameters, levels of adjustment, and flags necessary for maintenance of equipment. No expiring software, degrading operation, or key shall be accepted.

9.2.4. Manufacturer shall make spare parts available for purchase by the Owner's Elevator Maintenance Constructor.

9.2.5. Manufacturer shall provide technical support to the Owner's Elevator Maintenance Constructor for installation, adjustment, maintenance or troubleshooting assistance.

9.2.6. Telephone:

9.2.6.1. Provide shielded cabling for telephone. Cabling shall be grouped with the car traveling cable.

9.2.6.2. Communication line verification devices (furnished by Owner – ITS) shall be connected to the controller using shielded wire.

9.2.6.3. GIA-TRONICS Telephone shall be provided by Owner and installed by Constructor. Constructor to contact Owner for rough-in template.

9.2.7. Elevator cars shall be provided with wall protection pads and installation hooks.

9.2.8. Constructor shall provide to Owner the Manufacturer's:

9.2.8.1. Spare Parts

9.2.8.2. Manuals

9.2.8.3. Safety and Software Upgrades

9.2.8.4. Electronic tools

9.2.8.5. Adjusting Information

9.2.8.6. Wiring Diagrams

9.2.8.7. Full List of Fault Codes with definitions

9.2.8.8. Product Data:

- 9.2.8.8.1. Signal and operating fixtures, operating panels and indicators.
 - 9.2.8.8.2. Electrical characteristics and connection requirements.
 - 9.2.8.8.3. Expected heat dissipation of elevator equipment in machine room.
- 9.2.9. Submittals and Shop Drawings. Provide the following:
 - 9.2.9.1. Buffers and other components in hoist way.
 - 9.2.9.2. Maximum rail bracket spacing.
 - 9.2.9.3. Maximum loads imposed on guide rails requiring load transfer to building structure.
 - 9.2.9.4. Loads on hoisting beams.
 - 9.2.9.5. Clearances and travel of car.
 - 9.2.9.6. Clear inside hoist way and pit dimensions.
 - 9.2.9.7. Location and sizes of access doors, hoist way entrances and frames.
 - 9.2.9.8. Rail attachment.
 - 9.2.9.9. Cab design, dimensions and layout.
 - 9.2.9.10. Hoist way-door and frame details.
- 9.2.10. Operations and Maintenance Manuals shall include:
 - 9.2.10.1. Wiring diagrams
 - 9.2.10.2. Adjusting information
 - 9.2.10.3. Fault code information
- 9.2.11. Elevators shall be installed by the manufacturer or a qualified installer licensed in the State of Iowa and able to meet the response time requirements of any warranty or service agreement.
- 9.2.12. Maintenance and Repair Service:
 - 9.2.12.1. Provide monthly examinations, adjustments, repairs and lubrication of the elevator equipment for a period of twelve (12) months after the elevator has been accepted as substantially complete.
 - 9.2.12.2. Provide 24-hour callback service, including travel time and mileage, during this period at no charge to the Owner.
 - 9.2.12.3. Service shall not cover adjustments, repairs or replacement of parts due to negligence, misuse, abuse or accidents caused by persons other than the elevator Constructor.
 - 9.2.12.4. All parts and supplies shall be same as originally used in manufacture and installation.

9.2.12.5. Call-Back Response Time:

9.2.12.5.1. Response to requests for emergency or warranty service, both during regular working hours and outside of regular working hours, shall be a maximum of fifteen (15) minutes by telephone and sixty (60) minutes to arrive on site.

9.2.12.5.2. Call-backs are defined as labor required to free trapped passengers from elevators and/or to make repairs and adjustments to return an elevator to service.

9.2.12.6. Elevator Constructor shall maintain Owner's complete, updated set of straight line wiring diagrams. Drawings shall be updated with as-built conditions and reflect any changes to circuits resulting from control modifications, parts replacement, or equipment upgrades made during the term of Service.

9.2.12.7. Coordinate removal of elevator from service with Owner.

9.2.13. Elevator shall have an electronic door screen reopening device.

9.2.14. Keys for Independent Service shall be EX513, Access Key EX514, and the light, fan, run/stop key EX511

9.2.15. Certificate frames shall be model CF34 Quality Elevator Products with a window dimension of 3-1/2" x 4-3/4."

9.2.16. Controls shall be vandal proof.

9.2.17. Perform complete elevator performance check, with Owner present, prior to final State Elevator Inspection.

9.2.18. Approved manufacturers and installers shall have been in operation for a minimum of five (5) years and able to meet the response time requirements during any warranty and free service period.

9.2.19. Spill-containment shall meet SPCC standards (40 CFR 112).

9.3. Lifts:

9.3.1. Refer to Section III for information.

9.4. Escalators:

9.4.1. Escalators are not allowed.

IV. STRUCTURAL

The following information is provided as a general guideline in establishing Structural Engineering project specific requirements.

1. GENERAL

1.1. Refer to Section III for information.

2. FOUNDATIONS

- 2.1. Concrete duct banks, tunnels, and other concrete masses shall be attached to foundation walls with steel pins in epoxy capsules.

3. CONCRETE

3.1. Mix Design and Materials:

- 3.1.1. Accessories touching the exposed surface of the concrete or in contact with soil shall be coated with plastic or epoxy to prevent rust.

3.2. Exposed Concrete:

- 3.2.1. Exposed concrete intended as a finish material shall be placed using special formwork, form liners, surface repairs and surface treatments such as sandblast, rubbing, etc.

3.3. Precast Concrete:

- 3.3.1. Fabricator shall submit design to the Design Professional for review.
- 3.3.2. Fabricator shall have a minimum of three (3) years of experience in the fabrication of similar precast units.
- 3.3.3. Erector shall have a minimum of two (2) years of experience erecting similar precast units.
- 3.3.4. Shop drawings shall be prepared by a Registered Professional Engineer licensed to practice in the State of Iowa.

3.4. Placement:

3.4.1. Joints:

- 3.4.1.1. Contraction joints shall be tooled during finishing or sawed within 18 hours of concrete placement.
- 3.4.1.2. Contraction joints shall have a minimum depth of $\frac{1}{4}$ of the pavement thickness and a minimum width of $\frac{1}{8}$ inch.
- 3.4.1.3. Transverse contraction joints shall be provided at a maximum of $2\frac{1}{2}$ times the pavement thickness for street pavements and 2 times for all other pavements.
- 3.4.1.4. Longitudinal joints shall have a maximum separation of 12 feet for streets and 9 feet for sidewalks.
- 3.4.1.5. Construction joints shall be located at expansion joint locations wherever possible. Construction joints at other locations shall be keyed.
- 3.4.1.6. Concrete flatwork shall be isolated from columns, existing walls, etc., by non-extruding expansion joint material.

3.5. Testing:

- 3.5.1. The Owner shall retain services of the testing firm. Constructor shall be responsible for scheduling tests.
- 3.5.2. Constructor shall notify the Owner a minimum of 48 hours prior to placement of concrete.
- 3.5.3. Testing Requirements:
 - 3.5.3.1. Strength, air entrainment, temperature, and slump tests.
 - 3.5.3.2. Strength tests shall require four (4) cylinders, three (3) broken and one (1) spare.
 - 3.5.3.3. Testing rate shall be a minimum of one (1) test for the first 25 CY placed each day, and one (1) test for each additional 50 CY placed. Concrete may be tested more often, at the Owner's discretion.
- 3.5.4. Test data from concrete cylinder breaks shall be evaluated using the current edition of American Concrete Institute 214.
- 3.5.5. Test results shall be sent directly to the Constructor, Design Professional, and the Owner.

4. MASONRY

4.1. General:

- 4.1.1. Refer to Section III for information.

4.2. Brick and Block Masonry:

- 4.2.1. Refer to Section III for information.

4.3. Stone Masonry:

- 4.3.1. Coping stones shall be secured with stainless steel anchors and pins.
- 4.3.2. Coping stones shall have a continuous, lead-coated copper flashing beneath the stones that extends flush to, but not past, the surface of the wall.
- 4.3.3. Head joints of coping stones shall be set with joint sealant in lieu of mortar or grout.

4.4. Accessories:

- 4.4.1. Shelf angles and other metal objects incorporated into masonry walls shall be hot dipped galvanized. Fasteners shall be stainless steel.
- 4.4.2. Flashing:
 - 4.4.2.1. Flashings shall extend ¼ inch beyond the face of wall.
 - 4.4.2.2. In-wall flashings shall be composite copper asphaltic felt.
 - 4.4.2.3. Through-wall flashings shall be stainless steel.

4.4.2.4. Weeps shall be installed above each flashing.

4.4.3. Wall ties shall be hot dipped galvanized steel, equal to Hohmann & Barnard, Inc., DW10 Box Wall Tie.

4.4.4. Mortar at load bearing joints of dissimilar material types (brick and stone, brick and concrete, etc.) shall be raked to allow the installation of backer rod and sealant.

5. METALS

5.1. Structural Steel:

5.1.1. Certified (AWS D1.1) welders shall be required on structural work.

5.2. Miscellaneous Metals:

5.2.1. Guardrails and Handrails:

5.2.1.1. Exterior guardrails and handrails shall be fully welded, hot dipped, galvanized steel pipe. Surfaces to be painted shall be prepared per ASTM D6386 *Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Products and Hardware Surfaces for Painting*.

5.2.1.2. Paint Railings black with high gloss enamel paint. Paint shall be listed for use over galvanized steel.

5.2.1.3. Infill panels shall be vertical balusters.

5.2.1.4. Support posts shall be installed in sleeves cast into walk. Size sleeve 1 inch larger than post.

5.2.1.5. Fill sleeve with non-shrink non-metallic grout around support posts. Provide type NP1 caulk bead at support post penetration. Caulk to be installed minimum ½ inch depth into sleeve. Taper caulk to pitch water away from support post.

5.2.2. All exterior fasteners shall be stainless steel.

5.2.3. Mock up panel is required for all welded railings, grilles and similar architectural metal elements.

5.2.4. Exposed, exterior stainless steel elements shall be type 316.

5.3. Testing:

5.3.1. The Owner shall retain services of the testing firm. Constructor shall be responsible for scheduling tests.

5.3.2. Constructor shall notify the Owner a minimum of 48 hours prior to erection.

5.3.3. Test results shall be sent directly to the Constructor, Design Professional, and the Owner.

6. WOOD AND PLASTICS

6.1. Rough Carpentry:

- 6.1.1. Chromated Copper Arsenate (CCA) treated lumber shall not be used.
- 6.2. Architectural Millwork and Cabinetry:
 - 6.2.1. Millwork finish shall be free of lead bearing substances.
 - 6.2.2. Durable solid surfacing materials, such as plastic laminate on solid wood or exterior grade plywood substrate, shall be used for windowsills. Standard particleboard shall not be used.
 - 6.2.3. Countertops:
 - 6.2.3.1. Seams shall be kept to a minimum.
 - 6.2.3.2. Plastic laminate countertops shall have a plywood substrate.
 - 6.2.3.3. Sprayed-on glue application for plastic laminate shall not be used.
 - 6.2.3.4. Countertops in wet areas shall not be constructed with substrate susceptible to moisture.

V. BUILDING MECHANICAL

The following information is provided as a general guideline in establishing Mechanical Engineering project specific requirements.

1. GENERAL

- 1.1. Hanger design, application, and installation shall comply with MSS SP-58 and SP-69 Standards.
- 1.2. Solder shall be lead free.
- 1.3. Dielectric unions shall not be allowed in piping systems. Use dielectric couplings or flanges to connect dissimilar piping materials.
- 1.4. Identification:
 - 1.4.1. Labeling shall conform to ANSI A13.1.
 - 1.4.2. Piping systems shall be labeled, color coded with the type of service and the direction of flow.
 - 1.4.3. Lettering shall be placed at 20 foot intervals on straight runs of piping including risers and drops, adjacent to each valve and fitting, and at each side of penetrations of structure or enclosure.
 - 1.4.4. Lettering shall be visible from the floor.
 - 1.4.5. Labeling for refrigerant piping shall indicate refrigerant type.
 - 1.4.6. For pipe $\frac{3}{4}$ inch and smaller, permanent phenolic tags shall be used.
 - 1.4.7. Valves shall be tagged with an engraved brass or plastic tag describing type of service and area controlled by the valve.
 - 1.4.7.1. Provide valve list for all valves located in the mechanical rooms.

1.5 Wall and Ceiling Access Doors:

- 1.5.1. Mechanical and architectural drawings shall identify access doors, number of doors needed, and general locations.
- 1.5.2. Size to allow maintenance access all concealed valves and equipment.

2. FIRE PROTECTION AND SUPPRESSION

2.1. General

- 2.1.1. Fire protection systems shall be installed per NFPA IFC, IBC.
- 2.1.2. Materials and equipment shall be specifically approved, listed, and labeled for fire protection service by UL or FM Global.
- 2.1.3. All installations shall follow FM Global Lockout-Tagout process and procedures. System control valves shall be clearly locked and labeled to protect downstream systems until accepted by the Owner.

2.2. Submittals and Shop Drawings:

- 2.2.1. Sprinkler submittal shall include hydraulic calculations, isometric drawings, sprinkler and drain piping, and material/product cut sheets.

2.3. Piping and Pumps:

2.3.1. Piping:

- 2.3.1.1. The fire department connection (FDC) shall be located as close as possible to a fire hydrant and the main Fire Alarm Control Panel. Locate horn/strobe directly above the FDC on the exterior of the building.
- 2.3.1.2. Minimum FM Global approved Schedule 40 steel sprinkler pipe shall be used for all water-based fire protection piping.
- 2.3.1.3. Other piping
 - 2.3.1.3.1. Wet systems – Use schedule 40 black iron piping
 - 2.3.1.3.2. Dry systems and Preaction systems – Use schedule 40 galvanized sprinkler piping
 - 2.3.1.3.3. MRI/Magnet affected areas – Use copper piping with metal fusible link heads
 - 2.3.1.3.4. Piping before backflow preventer – Use cement lined ductile

2.3.2. Pumps:

- 2.3.2.1. Fire pump controller shall be wired directly from normal power and emergency power sources. Other disconnects, including molded cases, between controller and power source(s) shall not be allowed.

2.3.2.2. Fire pumps shall be horizontal split-case with electric motor.

2.3.2.3. Pump shall be sized to eliminate the need for pressure relief valves.

2.4. Accessories:

2.4.1. Valves:

2.4.1.1. Valves shall be located to allow access without requiring additional equipment.

2.4.1.2. Zone valves shall be located in a fire protected enclosure (stairwell) at a maximum 7 feet above finished floor.

2.4.1.3. Zone valve shall be located on the floor being served. Check valves and zone main drains shall accompany zone valve.

2.4.1.4. A pressure gauge shall be installed on the main supply of each sprinkler system, upstream from the main test valve, and in each zone.

2.4.2. Drains:

2.4.2.1. Drains that are piped to floor drains shall be at minimum 6 inch floor drains that can handle full flow discharge of a fully pressurized sprinkler system.

2.4.2.2. Exterior discharge of water shall be away from building entrances or populated areas. This is particularly important at the location for testing the main drain of a system.

2.4.3. Sprinkler:

2.4.3.1. Flexible sprinkler piping or heads shall not be allowed.

2.4.3.2. Sprinkler piping containing ethylene glycol shall be drained to a sanitary sewer.

2.4.4. Fire Extinguishers:

2.4.4.1. The Constructor shall provide and install all fire extinguishers.

2.4.4.2. Fire extinguishers shall be as follows:

2.4.4.2.1. Public areas and laboratories shall be Amarex B402 – 5 pound multi-purpose (ABC) dry chemical fire extinguisher.

2.4.4.2.2. Laboratories shall be Amarex 322 – 5 pound carbon dioxide (CO2) fire extinguisher.

2.4.4.2.3. Electrical rooms (where required) shall be Amarex 330 - 10 pound carbon dioxide (CO2) fire extinguisher.

2.4.4.2.4. Mechanical rooms and high hazard rooms shall be Amarex B456 – 10 pound multi-purpose (ABC) dry chemical fire extinguisher.

2.4.4.3. Fire Extinguisher Cabinets:

- 2.4.4.3.1. Cabinet shall be Larson 2409-R2 with full acrylic view. 24 inches high by 9 inches wide by 6 inches deep to hold a 5 or 10 pound ABC extinguisher or 5 pound CO2 extinguisher.
- 2.4.4.3.2. Cabinet shall have friction-type device to keep the door closed, not a keyed-lock.
- 2.4.4.3.3. Extinguishers may be hung if renovation project in laboratories, electrical rooms, and mechanical rooms do not allow enough space for cabinet installation.

2.5. Testing:

- 2.5.1. All piping shall be hydraulically tested. Pneumatic testing shall not be allowed due to safety concerns.
- 2.5.2. Test all piping systems at a minimum of 1 ½ times the expected working pressure, or a minimum of 100 psig and a maximum of the design pressure of the pipe and fittings.
- 2.5.3. Test all systems for a minimum of four (4) hours.
- 2.5.4. When test pressure exceeds 125 psig, test pressure shall not exceed a value which produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.
- 2.5.5. Sprinkler piping shall be hydrostatically tested for a period of two (2) hours at 200 psig, or 50 psi above the maximum system pressure, whichever is greater.

3. PLUMBING SYSTEMS

3.1. General:

- 3.1.1. Refer to Section III for information.

3.2. Insulation:

- 3.2.1. The following plumbing systems shall be insulated:

- 3.2.1.1. Domestic cold and hot water supply
- 3.2.1.2. Domestic hot water return or recirculating lines
- 3.2.1.3. Horizontal storm drain lines and roof drain sumps
- 3.2.1.4. Exposed waste lines

- 3.2.2. Refer to HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) Insulation requirements, article 4.3 below.

3.3. Instrumentation:

- 3.3.1. General

- 3.3.1.1. Thermometers and gauges shall have dial faces between 2 inches and 5 inches in diameter. Thermometers installed more than 8 feet above finished floor shall have minimum dial face of 4 inches, installed to allow reading from floor level.
- 3.3.1.2. Thermometers shall be of the dry-well type and installed with thermal conductive material in the dry wells.
- 3.3.1.3. Thermometers and gauges shall be selected with expected operating conditions in the middle of the device's range.
- 3.3.1.4. Thermometers and pressure gauges shall be accurate to 1 percent of full scale.
- 3.3.1.5. Gauges shall be installed with gauge cocks.
- 3.3.2. Provide pressure gauges immediately upstream and downstream of skid mounted, domestic booster pump assemblies.
- 3.4. Piping and Pumps:
 - 3.4.1. General
 - 3.4.2. Domestic Water:
 - 3.4.2.1. Materials:
 - 3.4.2.1.1. PVC piping shall not be used for domestic water systems.
 - 3.4.2.1.2. Pipe and fittings shall be copper, Type L, hard or soft drawn for solder joint connections, ASTM B88.
 - 3.4.2.1.3. Unions 2 ½ inches and larger shall have flange joints.
 - 3.4.2.2. Valves:
 - 3.4.2.2.1. Gate valves, 4 inches to 12 inches, shall be flanged, cast iron, 125 pound, solid wedge, bolted bonnet, OS&Y, Nibco F617-0 or equal. Gate valves 4 inches and smaller shall not be used. Gate valves shall not be used inside the building.
 - 3.4.2.2.2. Check valves 2 inches and smaller shall be soldered, bronze, 125 pound, horizontal swing, Nibco S-413 or equal. Check valves 2 ½ inches to 8 inches shall be flanged, cast iron, 125 pound, bolted bonnet, horizontal swing, Nibco F-918 or equal.
 - 3.4.2.2.3. Ball valves, 3 inches and smaller, shall be soldered, bronze 125 pound, full port, Nibco S-580 or equal.
 - 3.4.2.2.4. Butterfly valves, 6 inches and larger, shall be gear operated.
 - 3.4.2.2.5. Globe valves shall be maximum 2 inches.
 - 3.4.2.2.6. Low point drain valves shall be equipped with a hose adaptor fitting.
 - 3.4.2.2.7. Valve Handle Extensions:

- 3.4.2.2.7.1. Valves on piping systems with insulation thicknesses of 1 inch or greater shall have handle extensions.
- 3.4.2.2.7.2. Moving parts shall be a minimum of 1 inch beyond the face of the insulation to allow for operation without damaging the vapor barrier.
- 3.4.2.2.7.3. Insulation vapor barrier shall be sealed to the valve handle extension cover.

3.4.2.3. Strainers:

- 3.4.2.3.1. Strainers, 2 inches and smaller, shall be threaded, bronze, 250 pound, 20 mesh stainless steel screen, Watts Model 777 or equal. Strainers 2 ½ inches to 12 inches shall be flanged, cast iron, 125 pound, 0.045 inch perforated stainless steel screen, Hoffman Model 450 or equal.
- 3.4.2.3.2. Prior to project completion, Constructor shall remove strainer construction screens. Wire removed screen to suction piping near strainer. Only the Owner shall remove screens from project site.

3.4.3. Sanitary Waste and Vent:

- 3.4.3.1. All sanitary waste systems shall be designed for a maximum of 140 degrees F material. No material shall be dumped in any sanitary waste system having a temperature of more than 140 degrees F.
- 3.4.3.2. Gate valves shall be installed upstream of strainer for backflow devices and shall be epoxy coated.
- 3.4.3.3. Cleanouts shall be located in the wall or on the floor, not above the ceilings.
- 3.4.3.4. Pipe and fittings may be cast iron, DWV copper, or DWV Schedule 40 PVC. Copper and PVC shall not be used below grade.

3.4.4. Storm Sewer Systems:

- 3.4.4.1. Pipe and fittings may be cast iron, or DWV schedule 40 PVC. Use hubbed cast iron for piping below building floor slabs to 5 feet outside the building wall.
- 3.4.4.2. Provide cast iron cleanouts at grade with a concrete pad.
- 3.4.4.3. Foam core or cell core PVC not permitted.

3.4.5. Special Systems:

3.4.5.1. Acid Waste:

- 3.4.5.1.1. Pipe and fittings may be either glass or CPVC. All materials must be rated and approved for acid waste use.
- 3.4.5.1.2. Sinks in research laboratories shall include Orion BT1, one-quart sized bottle traps in lieu of standard p-traps.

3.4.5.2. Distilled and Deionized Water:

- 3.4.5.2.1. Pipe and fittings shall be Schedule 80 PVC or other plastic piping systems designed specifically for this type of service.

3.4.5.3. Natural Gas:

- 3.4.5.3.1. Pipe and fittings shall be carbon steel, A53 Gr. B or A106 Gr. B, Schedule 40.

3.4.5.4. Valves 1 inch and smaller shall be ball valves, rated for the type of service.

3.4.5.5. Compressed Air and Vacuum:

- 3.4.5.5.1. Pipe and fittings shall be Type L.

3.4.6. Pumps:

- 3.4.6.1. Recirculating pumps in hot water systems shall be constructed of non-ferrous material.

3.5. Equipment:

3.5.1. Water Heaters:

- 3.5.1.1. Refer to Section III for information.

3.5.2. Expansion Tanks:

- 3.5.2.1. Refer to *HYDRONIC SYSTEM EXPANSION TANK DETAIL* in Appendices.

- 3.5.2.2. All expansion tanks shall be installed with provisions for draining and venting.

3.5.3. Water Softeners:

- 3.5.3.1. All water softening equipment shall be installed with a test port immediately downstream from the softening equipment.

- 3.5.3.2. Provide Neptune meter immediately downstream of the Water Softener

- 3.5.3.3. Softeners shall have twin, alternating, fiberglass tanks.

- 3.5.3.4. Top of unit control panel shall not be mounted more than 84 inches above finished floor.

- 3.5.3.5. Top of brine tank shall not be mounted more than 60 inches above finished floor.

- 3.5.3.6. Allowable Manufacturers: Culligan, Marlo, Fleck

3.5.4. Backflow Preventers:

- 3.5.4.1. Refer to *UTILITY DISTRIBUTION DUPLEX BACKFLOW PREVENTER STATION DETAIL* in Appendices.

- 3.5.4.2. Domestic water backflow prevention devices shall be epoxy coated, Watts 957 (2 ½ inches – 10 inches) with Watts strainer.

- 3.5.4.3. Provide individual isolation valve upstream of each strainer.
- 3.5.4.4. All backflow preventers shall be located and configured to allow ready accessibility for maintenance and testing. Minimum clearance is 24 inches in all directions.
- 3.5.4.5. Backflow preventers located more than 4 feet above finished floor shall have an access platform.
- 3.5.4.6. Pit installations of backflow preventers shall not be allowed.
- 3.5.4.7. Drainage from backflow preventers shall be air-gapped, gravity drain only, to a floor drain or floor.
- 3.5.4.8. Potable water systems shall have two (2) backflow preventers in parallel, each at 100 percent capacity.
- 3.5.4.9. Dedicated fire suppression water system shall have one (1) FM Global approved double-check assembly.
- 3.5.4.10. Provide ¾ inch, full port ball valve directly downstream of backflow preventer for chemical disinfectant. Maintain minimum clearance of 18 inches. Close, cap, and insulate valve after chemical treatment.

3.6. Fixtures:

3.6.1. General

- 3.6.1.1. Fixtures and related equipment shall be of commercial grade or better.
- 3.6.1.2. Fixtures (sinks, urinals, water closets, etc.) shall be white in color.
- 3.6.1.3. Fixture hardware (faucets, flush valves, etc.) shall be chrome color.
- 3.6.1.4. Strainers shall be specified for sinks. Pop-up drain stoppers shall not be used with the exception of residence halls.
- 3.6.1.5. Water closets shall have check hinges.
- 3.6.1.6. Automatic faucets shall be infrared, proximity sensor type. Basis of design for countertop lavatories shall be Rubbermaid Technical Concepts TC.
- 3.6.1.7. Water closets shall have an automatic flush valve, be wall-mounted, 500 pound minimum load with floor mounted heavy-duty rated carrier. Approved manufacturers include Sloan, Zurn and Delaney
- 3.6.1.8. Lavatory faucets shall be hands free, automatic.
- 3.6.1.9. Spring return valves on faucets shall not be used.
- 3.6.1.10. Urinal flush valves shall be side mount, automatic. Flush valves shall have a manual override function. Approved manufacturers include Sloan, Zurn and Delaney.
- 3.6.1.11. Flush valves that operate with sensory technology shall use batteries, not solar panels.

3.6.1.12. Showers shall have anti-scald mixing valves.

3.6.1.13. Note locations of electric water coolers and fixtures with automatic flush valves (battery), with courtesy flush button, on electrical and plumbing plans.

3.6.1.14. Note all plumbing fixtures on the architectural drawings.

3.6.2. Water Coolers:

3.6.2.1. Water cooler shall be located a maximum of 36 inches from cooling unit.

3.6.2.2. Glass Fillers used in combination with drinking fountains basis of design shall be Elkay LK1110.

3.6.3. Hose Bibbs and Wall Hydrants:

3.6.3.1. Provide isolation valves on interior feed to deactivate outdoor hose bibbs during winter.

3.6.3.2. Exterior hose connections shall be recessed socket type.

3.6.4. Floor Drains:

3.6.4.1. Floor drains in mechanical rooms and janitor closets shall have a minimum pipe size of 3 inches and a removable strainer, minimum size 6 ½ inches.

3.6.5. Emergency Showers and Eyewash Stations:

3.6.5.1. For mechanical and custodial spaces only, the basis of design for eyewash stations and their associated mixing valves shall be Speakman SE-505 and Leonard TA-300, respectively. The eyewash station shall be installed as close as possible to the mop sink.

3.7. Testing:

3.7.1. All piping shall be hydraulically tested. Pneumatic testing shall not be allowed due to safety concerns.

3.7.1.1. Test all piping systems at a minimum of 1 ½ times the expected working pressure, or a minimum of 100 psig and a maximum of the design pressure of the pipe and fittings.

3.7.1.2. Test all systems for a minimum of four (4) hours.

3.7.1.3. When test pressure exceeds 125 psig, test pressure shall not exceed a value which produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe.

3.7.2. Natural gas shall be tested at twice the working pressure or a minimum of 3 psig.

3.7.3. Sanitary sewer shall be tested at 10 feet of head pressure for minimum of four (4) hours.

3.7.4. Domestic Chemical Treatment, Clean, and Flush

3.7.4.1. A system pre-inspection, to identify system readiness, shall be scheduled with the Owner seven (7) days prior to beginning system chemical treatment.

3.7.4.2. The following conditions must be met prior to beginning treatment, cleaning, and flush:

- 3.7.4.2.1. All domestic plumbing fixtures installed and piped.
- 3.7.4.2.2. Emergency eyewash and showers installed and piped. Constructor to provide provisions for capturing discharge water and protecting adjacent surfaces.
- 3.7.4.2.3. Domestic pumps operating. Pumps may be operating in hand.
- 3.7.4.2.4. Domestic sub-systems, such as chillers, watercoolers, etc., installed and piped. Accessories such as filters, chemical feed systems, and U.V. lights to be bypassed or turned off.
- 3.7.4.2.5. Water softener complete and valved to bypass resin.
- 3.7.4.2.6. Water polishing, DI and RO systems disconnected at isolation valve. Constructor to provide provisions for capturing discharge water and protecting adjacent surfaces.
- 3.7.4.2.7. Water Heater valved to allow flow and isolated from energy source.
- 3.7.4.2.8. Constructor to provide access for injecting chemicals. Constructor to provide provisions for capturing discharge water and protecting adjacent surfaces.
- 3.7.4.2.9. Piping system must be flushed for three (3) days prior to the chlorination process.

4. HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

4.1. General:

- 4.1.1. Penetrations through firewalls, floor or roof decks shall have firestopping material installed at the penetrations and shall be shown on the drawings.
- 4.1.2. Install manual air vents at all high points in water systems.
- 4.1.3. Maintenance Access:
 - 4.1.3.1. Coils, energy recovery equipment, wheels, heat exchangers, motors, etc., shall be removable and replaceable without removing adjacent equipment, piping, ductwork, conduit, etc.
 - 4.1.3.2. Coils within a unit shall be removable without requiring removal of any other coil in the same unit.
 - 4.1.3.3. Piping shall be offset to allow for removal of coils without removal of piping header.
 - 4.1.3.4. Locate hangers to allow removal of maintainable components without undue torque on remaining equipment, piping, ductwork, conduit, etc.

4.2. Piping:

4.2.1. General

- 4.2.1.1. Mechanical joint piping systems may be used in exposed areas and in other approved locations for chilled water, condenser water, and dual temperature/heating water with gaskets rated to 250 degrees F / 120 degrees C.
- 4.2.1.2. Provide minimum 3 inch spacing between fittings on insulated, mechanically coupled systems, such as Victaulic, to allow for insulation on fittings.
- 4.2.1.3. Triple-duty valves shall not be used.
- 4.2.1.4. Building hydronic piping systems shall be labeled with tag containing the following information. Tag to be attached at chemical feed point/system:
 - 4.2.1.4.1. System water volume
 - 4.2.1.4.2. Chemical additive and ratio
 - 4.2.1.4.3. Date of system startup
- 4.2.2. Hot Water Piping:
 - 4.2.2.1. Hose bibbs shall be installed for manual air vents at all high points of the hot water systems.
 - 4.2.2.2. Automatic air vents shall not be used.
 - 4.2.2.3. Refer to *HOT WATER (GLYCOL) PREHEAT COIL PIPING DETAIL* and *HOT WATER PREHEAT COIL PIPING (2-WAY VALVE) DETAIL* in Appendices.
- 4.2.3. Chilled Water Piping:
 - 4.2.3.1. Provide thermometers and pressure gauges on both the inlet and discharge sides of any device connected to the chilled water system.
 - 4.2.3.2. Material:
 - 4.2.3.2.1. PVC shall not be used for chilled water systems.
 - 4.2.3.2.2. Welded steel systems shall use black steel piping and fittings, ASTM A53, Schedule 40. Minimum pipe size shall be ¾ inch.
 - 4.2.3.2.3. Copper systems shall use a minimum of Type L copper.
 - 4.2.3.2.4. Any threaded black steel pipe shall be schedule 80.
 - 4.2.3.3. Valves:
 - 4.2.3.3.1. Control valves, for pipe sizes 3 inches and smaller, shall be globe valves. For pipe sizes larger than 3 inches, control valves shall be butterfly valves.
 - 4.2.3.3.2. Isolation valves, for pipe sizes 2 inches and smaller, shall be ball valves. For pipe sizes larger than 2 inches, isolation valves shall be butterfly valves.

- 4.2.3.3.3. Balancing valves 2 ½ inches and smaller shall be plug valves. For pipe sizes larger than 2 ½ inches, butterfly valves shall be used.
- 4.2.3.3.4. All sizes shall have external stem packing.
- 4.2.3.3.5. Butterfly valves shall be resilient seated with bronze or stainless steel discs and shall be bubble-tight. All butterfly valves shall be lug-type and gear operated.
- 4.2.3.3.6. Valve Handle Extensions:
 - 4.2.3.3.6.1. Valves on piping systems with insulation thicknesses of 1 inch or greater shall have handle extensions.
 - 4.2.3.3.6.2. Moving parts shall be a minimum of 1 inch beyond the face of the insulation to allow for operation without damaging the vapor barrier.
 - 4.2.3.3.6.3. Insulation vapor barrier shall be sealed to the valve handle extension cover.
- 4.2.3.4. Mechanical Couplings and Valves:
 - 4.2.3.4.1. Mechanical Couplings, 2 inch through 12 inch.
 - 4.2.3.4.1.1. Manufactured in two (2) segments of cast ductile iron, conforming to ASTM A-536, Grade 65-45-12.
 - 4.2.3.4.1.2. Gaskets shall be pressure-responsive synthetic rubber, grade to suit the intended service, conforming to ASTM D-2000.
 - 4.2.3.4.1.3. Mechanical Coupling bolts shall be zinc-plated, heat-treated carbon steel track head.
 - 4.2.3.4.2. Rigid Type:
 - 4.2.3.4.2.1. Coupling housings with offsetting pads shall be used to provide system rigidity and support and hanging in accordance with ANSI B31.1, B31.9, and NFPA 13.
 - 4.2.3.4.3. Flexible Type:
 - 4.2.3.4.3.1. Use in locations where vibration attenuation and stress relief are required.
 - 4.2.3.4.3.2. Flexible couplings may be used in lieu of flexible connectors at equipment connections.
 - 4.2.3.4.3.3. Three (3) couplings, for each connector, shall be placed in close proximity to the vibration source.
 - 4.2.3.4.4. Flange Adapters:

4.2.3.4.4.1. Use with grooved end pipe and fittings, flat faced, for mating to ANSI Class 125 / 150 flanges.

4.2.3.4.4.2. Basis of design shall be Victaulic style 741.

4.2.3.4.4.3. For direct connection to ANSI Class 300 flanges, basis of design shall be Victaulic Style 743.

4.2.3.5. Butterfly Valves 2 inches (DN50) through 12 inches (DN300) shall be 300 psi CWP (2065 kPa) suitable for bi-directional and dead-end service at full rated pressure.

4.3. Insulation:

4.3.1. General

4.3.1.1. Insulation systems shall be compliant with Midwest Insulation Constructors Association (MICA) National Commercial and Industrial Insulation Standards, latest edition.

4.3.1.2. Systems shall be clean and dry prior to installing insulation.

4.3.1.3. Insulation that indicates exposure to moisture, including piping or ductwork condensation, shall be removed and replaced. Wet insulation, or insulation that has been wet, will not be accepted.

4.3.1.4. After testing and cleaning, colder than ambient systems shall not be put into operation until insulation and vapor barriers are complete.

4.3.1.5. Elastomeric piping insulation installed outdoors shall be jacketed or coated.

4.3.1.6. Joints shall be sealed using the Manufacturer's approved adhesive.

4.3.2. Piping Insulation:

4.3.2.1. Insulation and vapor barrier shall be continuous through all wall and floor penetrations and hangers.

4.3.2.2. Repair vapor barrier breaches on below ambient piping systems with ASJ tape or chilled water mastic.

4.3.2.3. All-service insulation laps and butt strips shall be securely attached. Joints that peel or gap shall be secured using outward-clench staples or mastic.

4.3.2.4. Appurtenances shall be insulated to prevent condensation or burn hazards. Seal joints on below ambient piping systems.

4.3.2.5. Wood or plastic block hanger inserts shall not be used.

4.3.2.6. Hanger inserts:

4.3.2.6.1. Provide rigid insulation inserts at hangers for Chilled Water systems.

4.3.2.6.2. Provide rigid insulation inserts at hangers for Domestic Water and Heating Water systems pipe sizes 2 inch and larger.

- 4.3.2.6.3. Inserts shall be a minimum 180 degrees and extend a minimum of 2 inches beyond the hanger shield. Refer to MICA Plate 1-610
- 4.3.2.6.4. Inserts shall be Polyisocyanurate or calcium silicate.
- 4.3.2.7. Piping shields shall be installed at hangers and supports. Shields shall be mechanically secured to the piping by tape, bands, or other visible method.
- 4.3.2.8. Metal jacketing
 - 4.3.2.8.1. Metal jacketing shall be used on exposed steam and steam condensate piping to 8 feet above finished floor.
 - 4.3.2.8.2. Metal jacketing shall not be used on systems other than steam and steam condensate inside buildings. Metal jacketing may be used on below ambient piping systems outside of the building.
 - 4.3.2.8.3. Metal jacketing on steam and steam condensate systems may be banded, riveted or screwed.
 - 4.3.2.8.4. Metal jacketing on below ambient systems shall be banded, with all joints lapped and sealed with silicone. Screws and rivets shall not be used.
 - 4.3.2.8.5. Minimum jacketing thickness shall be 0.020 inches.
- 4.3.2.9. PVC Jacketing
 - 4.3.2.9.1. PVC jacketing shall be installed on exposed piping, other than steam and steam condensate, up to 8 feet above finished floor. PVC jacketing is required on elastomeric insulation in mechanical spaces.
 - 4.3.2.9.2. Minimum jacketing thickness shall be 0.020 inches.
 - 4.3.2.9.3. Self-adhered flexible cladding systems shall not be used.
- 4.3.2.10. PVC Fittings
 - 4.3.2.10.1. Mineral fiber or pre-molded inserts shall prevent condensation at fittings. Refer to MICA Plate 2-500.
 - 4.3.2.10.2. PVC fittings laps shall be mechanically fastened with stainless steel tacks, outward-clench staples, or ASJ tape. PVC tape alone is not acceptable.
 - 4.3.2.10.3. Joints on PVC fittings on below-ambient systems shall be sealed with mastic or taped with PVC or ASJ tape to maintain vapor barrier.
- 4.3.3. Ductwork Insulation:
 - 4.3.3.1. General
 - 4.3.3.1.1. Ductwork insulation pins shall be securely fastened. Loose or unattached pins will not be accepted.

4.3.3.1.2. Rigid insulation inserts shall be installed at trapeze hangers.

4.3.3.1.2.1. Inserts shall be taped to the duct wrap and shall extend a minimum of 2 inches beyond the hanger.

4.3.3.1.2.2. Insulation and vapor barrier shall be continuous between the hanger and the ductwork.

4.3.3.1.2.3. Taping insulation or vapor barrier to the hanger will not be accepted.

4.3.3.2. Duct Wrap Flexible Insulation:

4.3.3.2.1. Joints shall be sealed with FSK or foil tape. Tape shall be securely adhered with the manufacturer's recommended squeegee.

4.3.3.2.2. Duct wrap insulation longitudinal joints shall be mechanically fastened with outward-clenching staples.

4.3.3.2.3. Cupped head welded pins or stick pins shall be used on ductwork over 18 inches in either dimension. Pins shall be placed at 12 inches on center, maximum.

4.3.3.3. Duct Board Rigid Insulation shall be mechanically fastened to ductwork with pins.

4.3.4. Equipment Insulation:

4.3.4.1. Equipment insulation shall comply with MICA Plates 4-100 through 4-660.

4.3.4.2. Insulation on below ambient system equipment shall be installed without voids between the insulation and the equipment.

4.3.5. Custom-Fabricated Insulation Blankets:

4.3.5.1. Custom-fabricated, removable insulation blankets shall be provided for equipment and fittings that require regular maintenance such as: steam or chilled water valves, bonnets, condensate chests / tanks, and steam meters.

4.3.5.2. Custom-fabricated, removable insulation blankets shall be provided for equipment and appurtenances that operate in the following temperature ranges:

4.3.5.2.1. 55 degrees F or lower

4.3.5.2.2. 120 degrees F or higher

4.3.5.3. Custom-fabricated insulation blankets shall be attached via Velcro straps and d-ring buckles.

4.4. Air Distribution:

4.4.1. Maximum length of flexible ductwork shall be 36 inches.

4.4.2. Accessories: Access doors shall be located before and after reheat coils.

4.4.3. Ductwork trapeze hangers shall be installed to allow rigid insulation inserts. Refer to ductwork insulation.

4.5. Equipment:

4.5.1. General

4.5.1.1. Provide major equipment with pressure, temperature, and flow indicators at time of installation to establish unit performance.

4.5.1.2. Provide equipment with bearings lubricated for life by the manufacturer. Where periodic lubrication is needed, specification shall require lubrication points to be readily accessible for lubrication. Remote lubrication systems shall be metal.

4.5.1.3. Provide access doors at all coils, filters, motors, belts, etc.

4.5.1.4. All coils shall be drainable.

4.5.1.5. Mechanical equipment/systems shall be installed on minimum 3 1/2 inch concrete housekeeping pad, with steel support framing, as required, to allow proper housekeeping, drainage, and full access.

4.5.1.5.1. Sub floors beneath housekeeping pads shall be sealed to prevent leakage through cracks in pads.

4.5.1.6. Motors shall be premium-efficiency.

4.5.1.7. Motors shall not be designed to operate in the service factor.

4.5.1.8. Motors shall be designed to operate continuously at all speeds with variable speed drives having carrier frequency of 12 KHZ or higher and without large fluctuations in amps drawn at any single speed.

4.5.1.9. Equipment shall have a hand/off/auto switch to allow manual override of the normal controls.

4.5.2. Refrigerant Systems:

4.5.2.1. Valves on refrigerant lines shall be full port. Provide isolation valves on each side of driers. Provide check valves on the discharge of compressors.

4.5.2.2. Pipe discharge from all relief valves to exterior of the building.

4.5.2.3. Insulate suction and hot gas bypass on refrigerant lines in all locations and discharge lines if exposed in occupied areas.

4.5.2.4. Piping and fittings shall be copper, except in an evaporative condenser, where steel piping is acceptable. Use long radius fittings.

4.5.2.5. Solder shall be 15 percent silver solder.

4.5.2.6. Compressors:

- 4.5.2.6.1. Compressors shall have five (5) year manufacturer warranty.
- 4.5.2.6.2. Multiple units are preferred over larger single units.
- 4.5.2.6.3. All compressors shall be single speed.
- 4.5.2.6.4. All 3-phase units shall have adjustable voltage monitors for each phase, with manual reset.
- 4.5.2.6.5. Compressors shall have recycle timers and crankcase heaters.
- 4.5.2.6.6. Provide high and low pressure switches.
- 4.5.2.7. Solenoid valves shall have a manual lift stem.
- 4.5.2.8. Provide driers on all liquid lines with isolation valves on each side of the drier.
- 4.5.2.9. Coils shall have copper tubes and aluminum fins.
- 4.5.3. Pumps:
 - 4.5.3.1. Refer to *PUMP – END SUCTION DETAIL* and *PUMP – IN-LINE DETAIL* in Appendices.
 - 4.5.3.2. Install all pumps in easily accessible locations. Install isolation valves on each side of the pump.
 - 4.5.3.3. Pumps shall have mechanical seals.
 - 4.5.3.4. Base mounted, centrifugal pumps shall be installed with a pressure gauge manifold and a suction diffuser/strainer.
 - 4.5.3.5. Pipe vibration isolators shall be stainless steel.
 - 4.5.3.6. Pumps 7 ½ HP and greater shall have Chesterton mechanical split seals, or approved equal.
 - 4.5.3.7. Bell and Gosset pumps shall be the standard of quality.
 - 4.5.3.8. Horizontal in-line pumps shall have a maximum of 1 HP. Vertical in-line pumps shall have a maximum of 5-horsepower, be mounted within 4 feet above finished floor, and shall be protected by a strainer. In-line pumps are preferred to be close-coupled.
 - 4.5.3.9. Operate Hydronic pumps continuously once chemical inhibitors are added to ensure system circulation.
 - 4.5.3.10. Prior to project completion, Constructor shall remove strainer construction screens. Wire removed screen to suction piping near strainer. Only the Owner shall remove screens from project site.
- 4.5.4. Air Terminal Units:
 - 4.5.4.1. Splices in the poly tubing shall have brass couplers. Plastic couplers or tees are not acceptable.

4.5.5. Air Handling Equipment:

- 4.5.5.1. Units shall have a magnahelic filter pressure differential indicator installed across filter section.
- 4.5.5.2. Drain pans shall be stainless steel, externally insulated. Provisions for cleaning shall include either a removable pan or ease of access for cleaning in place.
- 4.5.5.3. Traps for drains shall be sized for the system served. Refer to *AHU CONDENSATE DRAIN DRAW-THRU AND BLOW-THRU* DETAIL in Appendices. Ensure adequate room for the size of trap required. Adjust the height of the housekeeping pad as required. A 5.5 inch minimum height housekeeping pad is preferred.

4.5.5.4. Coils:

- 4.5.5.4.1. Refer to *CHILLED WATER COIL PIPING DETAIL* in Appendices.
- 4.5.5.4.2. All coils shall have a minimum of 0.025 inch tube wall thickness and 5/8 inch O.D. minimum diameter.
- 4.5.5.4.3. Coils shall have copper tubes and aluminum fins.
- 4.5.5.4.4. Coils shall be drainable.
- 4.5.5.4.5. Water coils shall be piped for counter flow.
- 4.5.5.4.6. Balancing valves shall be installed at the coil.

4.5.5.5. Preheat Coils:

- 4.5.5.5.1. Preheat coils shall be steam integral face and bypass. Coil shall be vertical for units above 10,000 CFM.
 - 4.5.5.5.2. Minimum tube wall thickness shall be 0.035 inches.
 - 4.5.5.5.3. Install flexible connectors between the coil and steam and condensate connections to allow for expansion and contraction.
 - 4.5.5.5.4. Provide two steam traps at each coil.
 - 4.5.5.5.5. Preheat coil shall fail open upon freezestat alarm.
 - 4.5.5.5.6. Condensate drain outlet to be minimum of 18 inches above AHU base rail.
 - 4.5.5.5.7. Acceptable manufactures: LJ Wing, Aerofin
- 4.5.5.6. Dampers shall be low-leakage type (3 cfm/sq ft @ 1" w.g.).
- 4.5.5.7. Owner-witnessed manufacturer's testing shall be conducted on installed unit in its final location
- 4.5.5.8. Fan Arrays – Multiple Fan Cells:

- 4.5.5.8.1. Utilize fan arrays for supply, return, and relief fans in Custom Air Handling Units sized above 10,000 CFM.
- 4.5.5.8.2. Lifting rail or hoist shall be provided if any component of the fan array weighs more than 100 pounds.
- 4.5.5.8.3. Air Handling Unit Configuration:
 - 4.5.5.8.3.1. Return air units to be capable of turndown to 10 percent of maximum airflow.
 - 4.5.5.8.3.2. 100 percent outside units to be capable of turndown to 50 percent of maximum airflow.
 - 4.5.5.8.3.3. Fans shall be configured for N+1 redundancy.
- 4.5.5.8.4. Fan Cell Assemblies:
 - 4.5.5.8.4.1. Fan cells shall be direct driven, AMCA Arrangement 4, plenum fans, duty Class II or III. Class I fans shall not be used.
 - 4.5.5.8.4.2. Provide fans cells with backflow prevention device that reduces system effect when the fan is disabled. Size fan to account for the backdraft damper pressure drop.
- 4.5.5.8.5. Motor Controls and Monitoring:
 - 4.5.5.8.5.1. Each cell shall have noninvasive, zero pressure drop flow pressure sensing taps installed in the fan inlet cone for airflow monitoring capability. Acceptable manufacturers: MAMAC, Setra
 - 4.5.5.8.5.2. Each cell shall be monitored by a current sensor.
 - 4.5.5.8.5.3. Each cell shall be individually wired to a motor controller containing motor overloads and a dedicated micro drive. Acceptable manufacturers: ABB, Yaskawa, Toshiba
 - 4.5.5.8.5.4. Installation of controller(s) on the wall of the AHU is acceptable.
 - 4.5.5.8.5.5. Individual fans shall be independently capable of indexing on and off and changing speed.
 - 4.5.5.8.5.6. A fault in any one fan cell shall not affect the overall AHU air flow and pressure.
- 4.5.5.9. Air blenders shall be installed in all return air units.
- 4.5.5.10. For units 10,000 CFM and above:
 - 4.5.5.10.1. Acceptable manufacturers: MarCraft, Haakon, Governair, ClimateCraft
- 4.5.5.11. Provide shaft grounding or ceramic bearings with shaft grounding rings at motors.

4.5.6. Humidifiers:

4.5.6.1. Refer to Section III for information.

4.5.7. Corrosion Coupon Rack:

4.5.7.1. Provide corrosion coupon rack on all closed loop systems. Coordinate location with Owner.

4.5.8. Chemical Pot Feeders:

4.5.8.1. Provide JL Wingert model 5HD

4.5.8.2. Top of feeder to be located no more than 36 inches above finished floor. Verify final location with Owner to verify safe chemical transfer.

4.5.8.3. Provide isolation valves at the inlet, outlet, and drain outlet. Locate valves immediately adjacent to feeder.

4.5.9. Bag Filters:

4.5.9.1. Provide size #1 or size #2 bag filter and housing, based on flow rate and system size. Coordinate final location with Owner.

4.6. Lab Systems:

4.6.1. Fume Hoods:

4.6.1.1. Mott Casework shall be the fume hood basis of design.

4.6.2. Refer to *FUME HOOD INSTALLATION DETAIL* in Appendices.

4.7. Steam Systems:

4.7.1. Drip legs are required for all steam risers. Drawings shall indicated drip leg locations. Refer to *END OF MAIN DRIP STATION PIPING (BUILDING) DETAIL* in Appendices.

4.7.2. Refer to *STEAM PREHEAT COIL WITH INTERNAL FACE AND BY-PASS DAMPERS DETAIL* in Appendices.

4.7.3. Pumps, Valves, and Piping:

4.7.3.1. Pumps:

4.7.3.1.1. Condensate pumps shall be duplex electric pumps.

4.7.3.1.2. Install a pressure gauge on the system side of the condensate pump discharge check valve.

4.7.3.1.3. All condensate pumps shall be capable of handling high temperature condensate.

4.7.3.2. Valves:

- 4.7.3.2.1. Valves 2 inches and smaller shall be 150 pound rising stem gate valves with a union on one (1) side. Valves 2 ½ inches and larger shall be OS & Y gate valves.
- 4.7.3.2.2. Globe valves shall be used only for throttling purposes. Globe valves shall be a minimum of 150 pound, and shall be rated for steam.
- 4.7.3.2.3. Mounting of steam valves shall be at a minimum 45-degree angle off the center of pipe – horizontally mounted is preferred, unless otherwise stated by manufacturer.
- 4.7.3.2.4. PRVs:
 - 4.7.3.2.4.1. Install Isolation valves at all PRVs.
 - 4.7.3.2.4.2. Install pressure gauges on both sides of the PRV.
 - 4.7.3.2.4.3. All PRVs shall be located and configured to allow ready accessibility for maintenance. Provide a minimum clearance of 24 inches in all directions. No PRV shall be located more than 8 feet above finished floor.
 - 4.7.3.2.4.4. PRVs in the distribution system shall not contain a bypass.
- 4.7.3.3. Piping - Medium and Low Pressure Steam - Above Grade:
 - 4.7.3.3.1. Pipe and fittings:
 - 4.7.3.3.1.1. Piping shall be seamless black steel.
 - 4.7.3.3.1.1.1. For supply, piping shall be Schedule 40.
 - 4.7.3.3.1.1.2. For condensate, piping shall be Schedule 80.
 - 4.7.3.3.1.2. Fittings 2 inches and smaller shall be threaded cast iron or malleable iron. Fittings 2 ½ inches and larger shall be welded, with flanged connections to valves and equipment.
 - 4.7.3.3.1.3. Valves 2 inches and smaller shall be 150 pound rising stem gate valves with a union on one (1) side. Valves 2 ½ inches and larger shall be OS & Y gate valves.
 - 4.7.3.3.1.4. Globe valves shall be used only for throttling purposes. Globe valves shall be a minimum of 150 pound, and shall be rated for steam.
 - 4.7.3.3.1.5. Traps shall be protected by a strainer upstream. Isolation valves shall be installed on each side of each trap with blowdown. Integral check valves shall not be used.
 - 4.7.3.3.2. Strainers shall be Y-pattern, rated for steam, with stainless steel baskets. All strainers shall be installed with a blow down valve.

- 4.7.3.3.3. Safety relief valves shall have piping equal to or larger than tapings of the valve. Pipe discharge to exterior of the building.
- 4.7.3.3.4. Vent lines from pressure powered pumps or condensate pumps shall not be connected to a relief vent pipe.
- 4.7.3.3.5. Steam traps sized from ½ inch through 1 inch shall have universal 2-bolt connectors. Acceptable manufacturers: Spirax Sarco, Armstrong, Watson McDaniel.

4.7.4. Equipment:

4.7.4.1. Heat Exchangers:

- 4.7.4.1.1. Refer to Section III for information.

4.7.4.2. Air vent/vacuum breakers shall be installed on steam equipment as required.

4.7.5. Refer to HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) Insulation requirements, Section IV D 3.

4.8. Snowmelt Systems:

- 4.8.1. Refer to *SNOWMELT SCHEMATIC DETAIL* in Appendices.

4.9. Testing:

- 4.9.1. All piping shall be hydraulically tested. Pneumatic testing shall not be allowed due to safety concerns.
- 4.9.2. Test all piping systems at a minimum of 1 ½ times the expected working pressure, or a minimum of 100 psig and a maximum of the design pressure of the pipe and fittings.
- 4.9.3. Test all systems for a minimum of four (4) hours.
- 4.9.4. When test pressure exceeds 125 psig, test pressure shall not exceed a value which produces a hoop stress in the piping greater than 50 percent of the specified minimum yield strength of the pipe
- 4.9.5. Natural gas shall be tested at twice the working pressure or a minimum of 3 psig.

5. INSTRUMENTATION

5.1. Meters:

5.1.1. Domestic Water Utility Meters:

- 5.1.1.1. Refer to *UTILITY DISTRIBUTION DOMESTIC WATER METER DETAIL* in Appendices for meter specification and connection details.

5.1.2. Chilled Water Utility Meters:

5.1.2.1. Refer to *UTILITY DISTRIBUTION CHILLED WATER BUILDING INTERFACE DETAILS* and *UTILITY DISTRIBUTION CHILLED WATER BUILDING INTERFACE DETAILS (WITH OFF SEASON COOLING REQUIREMENTS)* in Appendices for meter specification and connection details.

5.1.3. Hot Water Utility Meters:

5.1.3.1. Refer to *UTILITY DISTRIBUTION HOT WATER METER DETAIL* in Appendices for meter specification and connection details.

5.1.4. Control and Signal Cabling:

5.1.4.1. Separate raceways and junction boxes to metering and controlling devices shall be installed for each voltage class, including separating AC from DC.

5.1.4.2. 480 VAC conductors are to be installed at least 12 inches away from any lower voltage signal cabling raceways. Conductor shall not be installed in shared junction boxes that include signal wiring.

6. CONTROLS

6.1. General:

6.1.1. Constructor shall furnish and install all equipment, accessories, wiring, piping, and instrumentation required for a complete and functional system. Provide all hardware and software, including all relays, sensors, power supplies, etc., required to perform the sequences intended.

6.1.2. Manufacturers shall be Johnson Controls or Schneider Continuum Controls.

6.1.3. All components shall have been thoroughly tested and proven in actual use.

6.1.3.1. The DDC system shall possess a modular architecture, permitting future expansion through additional DDC panels, sensors, actuators and/or operator terminals.

6.1.3.2. The DDC system shall monitor and control the equipment with respect to the indicated Sequences of Operation and Points List. Provide sufficient number of input/output units as determined by specific applications.

6.1.3.3. Existing DDC system shall be extended to meet the requirements, as indicated by the Drawings and Specifications associated with this project.

6.1.4. BACnet Integration:

6.1.4.1. All BACnet devices shall be BACnet Testing Lab certified.

6.1.4.2. BACnet instance numbers shall be coordinated with the Owner. Assigned numbers shall be physically entered by the equipment manufacturer at the BACnet device.

6.1.5. Installing Constructor shall specialize in systems and products and have a minimum of five (5) years documented experience.

6.1.6. The control system shall be installed by experienced control electricians and fitters regularly engaged in control installations. Installing controls electricians and fitters shall have a minimum

of two (2) years of documented field experience with extensive understanding and knowledge of the operation of the system installed. Installers shall:

6.1.6.1. Verify that all field controllers are properly addressed and communicating with the master controller.

6.1.6.2. Jumper configurations.

6.1.6.3. Be onsite to make corrections during point-to-point controls verification.

6.1.6.4. Coordinate with Owner to determine device and sensor locations.

6.1.7. Warranty:

6.1.7.1. All actuators shall have a minimum two (2) year manufacturer's warranty.

6.2. Scopes of Work:

6.2.1. Coordinate with UI Controls for projects using third party controls subcontractors.

6.2.2. The following responsibilities shall apply when UI Controls is providing project programming:

ACTIVITY	RESPONSIBLE PARTY	
	CONTROL CONSTRUCTOR	OWNER
Provide Control Components per Plans & Specifications	X	
Submittals	X	
Device/ System Installation	X	
Communication Bus Verification	X	
Determine Sensor Locations	X	X
Point to Point Verification/ Troubleshooting	X	X
Programming		X
Validating HVAC Systems		X
Commissioning Systems	X	X
Control System Startup		X
Build/ Install Graphics	X	
Record Drawings	X	

6.2.3. DDC Constructor shall:

6.2.3.1. Verify space requirements to insure proper service clearances.

6.2.3.2. Provide all required information, material and direction to the designated Constructor as required for device and accessory installation.

6.2.3.3. Address controllers

6.2.3.4. Configure jumpers

6.2.4. HVAC Constructor shall:

6.2.4.1. Install automatic valves, separable wells, flow switches, airflow monitoring stations, etc., supplied by the DDC Constructor.

6.2.4.2. Install all automatic control dampers.

6.2.4.3. Assemble multiple section dampers with required inter connecting linkages and extend required number of shafts through duct for external mounting of damper motors.

6.2.4.4. Coordinate installation of variable air terminal units with control Constructor.

6.2.4.5. Install duct mounted reheat coils.

6.2.5. Electrical Constructor shall:

6.2.5.1. Provide all power wiring (120 volt or greater) to motors, electric dampers, smoke detectors, and DDC panels.

6.2.5.2. Assign and identify electrical circuits to control Constructor for dedicated controller wiring.

6.2.6. Controls Electrical Constructor shall:

6.2.6.1. Provide electric wiring and wiring connections required for the installation of the temperature control system, unless specifically shown on the electrical drawings or called for in the electrical specifications.

6.3. User Interface:

6.3.1. Graphics:

6.3.1.1. Dynamic Color Graphic Displays for floor plan displays, system schematics for each piece of mechanical equipment, including air handling units, chilled water systems, terminal air boxes, and hot water systems, shall be provided as Screen Standards.

6.3.1.2. System Selection/Penetration: Support user access to all system schematics and floor plans with a graphical penetration scheme, menu selection, or text-based commands.

6.3.1.3. Dynamic Data Displays: Show dynamic temperature values, humidity values, flow values, and status indication in their actual respective locations. Values shall automatically update to represent current conditions without operator intervention.

- 6.3.1.4. Windowing: The windowing environment of the PC Operator Workstation shall allow the user to view several graphics simultaneously to analyze total building operation, or to allow the display of a graphic associated with an alarm to be viewed without interrupting work in progress.
- 6.3.1.5. Provide graphics screen with building floor plan showing actual locations of master controllers, system control panels, and Variable Frequency Drives. Plans shall include routing of control communication bus and pneumatic piping.
- 6.3.1.6. Graphics Development Package: Provide graphic generation software to allow the user to add, modify, or delete system graphic displays.
 - 6.3.1.6.1. DDC Constructor shall provide libraries of pre-engineered screens and symbols depicting:
 - 6.3.1.6.1.1. Standard air handling unit components (e.g., fans, cooling coils, filters, dampers, etc.)
 - 6.3.1.6.1.2. Complete mechanical systems (e.g., constant volume-terminal reheat, VAV, etc.)
 - 6.3.1.6.1.3. Electrical symbols
 - 6.3.1.6.2. The graphic development packages shall allow user to perform the following:
 - 6.3.1.6.2.1. Define symbols.
 - 6.3.1.6.2.2. Position and size symbols.
 - 6.3.1.6.2.3. Define background screens.
 - 6.3.1.6.2.4. Define connecting lines and curves.
 - 6.3.1.6.2.5. Locate, orient and size descriptive text.
 - 6.3.1.6.2.6. Define and display color for all elements.
 - 6.3.1.6.2.7. Establish correlation between symbols or text and associated system points or other displays.
 - 6.3.1.6.3. Graphical displays can be created to represent any logical grouping of system points or calculated data based upon:
 - 6.3.1.6.3.1. Building function
 - 6.3.1.6.3.2. Mechanical system
 - 6.3.1.6.3.3. Building layout
 - 6.3.1.6.3.4. Any other logical grouping of the facility

- 6.3.1.6.4. User shall be able to build graphic displays that include point data from multiple DDC panels, including MCP, sub panels, LCUs, or VAV terminal unit control.
 - 6.3.1.7. Control Constructor shall coordinate with Control Engineering for campus graphic standard.
- 6.3.2. Local Interface
 - 6.3.2.1. Controllers shall support the connection of a portable interface device such as a laptop computer or vendor specific hand-held device. Via this local interface, an operator shall:
 - 6.3.2.1.1. Adjust application parameters.
 - 6.3.2.1.2. Execute manual control of input and output points.
 - 6.3.2.1.3. View dynamic data.
- 6.3.3. Alarms:
 - 6.3.3.1. Route alarms directly from primary application nodes to specific workstations and servers.
 - 6.3.3.2. The alarm management portion of the master controller software shall, at the minimum, provide the following functions:
 - 6.3.3.2.1. Log date and time of alarm occurrence.
 - 6.3.3.2.2. Generate a "Pop-Up" window, with audible alarm, informing a user that an alarm has been received.
 - 6.3.3.2.3. Allow user, with the appropriate security level, to acknowledge, temporarily silence, or discard an alarm.
 - 6.3.3.2.4. Provide an audit trail on hard drive for alarms by recording user acknowledgment, deletion, or disabling of an alarm. The audit trail shall include the name of the user, the alarm, the action taken on the alarm, and a time/date stamp.
 - 6.3.3.2.5. Provide the ability to direct alarms to an e-mail address or text message.
 - 6.3.3.2.6. Any attribute of any object in the system may be designated to report an alarm.
 - 6.3.3.2.7. The BAS shall annunciate diagnostic alarms indicating system failures and non-normal operating conditions.
 - 6.3.3.3. Provide BAS alarm point for all flood protection valves.
- 6.3.4. Reports:
 - 6.3.4.1. Reports shall be capable of being directed to each of the following:

6.3.4.1.1. User interface displays

6.3.4.1.2. Printers

6.3.4.1.3. Archives

6.3.4.2. The system shall provide the following reports:

6.3.4.2.1. All points in the BAS.

6.3.4.2.2. All points in each BAS application.

6.3.4.2.3. All points in a specific area network.

6.3.4.2.4. All points in a user-defined group of points.

6.3.4.2.5. All points currently in alarm in BAS application.

6.3.4.2.6. All points locked out in a BAS application.

6.3.4.2.7. All BAS schedules.

6.3.4.2.8. All user defined and adjustable variables, schedules, interlocks, etc.

6.3.4.2.9. BAS diagnostic and system status reports.

6.3.5. Schedules:

6.3.5.1. The system shall provide multiple input forms for automatic BAS time-of-day scheduling and operations override. The following spreadsheet types shall be accommodated:

6.3.5.1.1. Weekly schedules.

6.3.5.1.2. Temporary override schedules.

6.3.5.1.3. Holiday schedules.

6.3.5.1.4. Monthly schedules.

6.3.5.2. Schedules shall be provided for each system or sub-system.

6.3.5.2.1. Each schedule shall include all user commanded points residing within the system.

6.3.5.2.2. Each point shall have a unique schedule of operation relative to the system use schedule, allowing for sequential starting and control of equipment within the system.

6.3.5.2.3. Scheduling and rescheduling of points shall be accomplished via the system schedule spreadsheets.

6.3.5.3. Monthly calendars for a twelve (12) month period shall be provided to allow for scheduling of holidays and special days in advance.

6.3.6. Historical Trending and Data Collection:

- 6.3.6.1. Trend and store point history data for all BAS points and values as selected by the user.
- 6.3.6.2. The trend data shall be stored in a manner that allows custom queries and reports using industry-standard software tools.
- 6.3.6.3. Provide the capability to perform the following statistical functions on the historical database:
 - 6.3.6.3.1. Average
 - 6.3.6.3.2. Arithmetic mean
 - 6.3.6.3.3. Maximum/minimum values
 - 6.3.6.3.4. Range – difference between minimum and maximum values
 - 6.3.6.3.5. Standard deviation
 - 6.3.6.3.6. Sum of all values
 - 6.3.6.3.7. Variance
- 6.3.6.4. Coordinate with Controls Engineering on trend specifics as they apply to data collection for the Energy Control Center.

6.4. Sensors and Equipment:

6.4.1. Nomenclature:

- 6.4.1.1. Label all system control points and devices.
- 6.4.1.2. Control point identifiers, descriptions and object names shall be per the Owner's equipment nomenclature standard.
- 6.4.1.3. The Owner's nomenclature standard shall apply to third-party BACnet controllers.

6.4.2. Sensors and equipment shall be of the electronic-type suitable for their intended purpose.

6.4.3. Inputs and Outputs:

- 6.4.3.1. The DDC System shall be capable of receiving the following input signals:
 - 6.4.3.1.1. Analog Inputs (AI) shall monitor temperature, humidity, voltages, or any type of input signal from a 4 to 20 MA or 0 to 10 volt DC as selected by software.
 - 6.4.3.1.2. Digital Inputs (DI) shall accept dry contact closures.)
 - 6.4.3.1.3. Pulse accumulators shall have the same characteristics as the DI except that, through software, the number of total pulses shall be counted. The pulse accumulator shall accept up to 10 pulses per second.

6.4.3.2. The DDC System shall be capable of providing the following output signals:

6.4.3.2.1. Digital Outputs (DO) shall provide dry contact closures for momentary and maintained programmable operation of field devices. Closures will have a duration of 0.1 seconds to continuous.

6.4.3.2.2. Analog Output (AO) shall provide variable outputs of 4 20 mA, 0 to 10 volt DC, or 0 to 20 volt DC, as selected by the software. Pulse Width Modulation (PWM) outputs are prohibited.

6.4.4. Accuracy shall be consistent with that specified below and as required to maintain end-to-end system accuracy.

6.4.4.1. Temperature sensors shall be thermistor or RTD-type.

6.4.4.2. Averaging sensors used as control points shall follow manufacturer recommended sensor coverage. Averaging sensors for monitoring only purposes, such as cooling coil temperature, face/bypass temperature, or return air temperature, may use a single averaging sensor.

6.4.4.3. Energy recovering units shall have averaging temperature sensors at the inlets and outlets at the wheels.

6.4.4.4. Humidity sensors shall be electronic with no moving or other parts requiring periodic service. Accuracy will be +3 percent of reading.

6.4.4.5. Control relays shall be rated for the application with form c contacts with position indicator.

6.4.4.6. Duct Static Pressure Probes: Duct static pressure control point or monitor point shall use the following probe in conjunction with an appropriately sized pressure transducer. Probe shall be mounted as per manufacturer's recommendations.

6.4.4.6.1. Static Pressure Tip, ¼ inch Barb (Kele Part Number : A-302-K)

6.4.4.6.2. Mounting Flange for A-302-K (Kele Part Number : A-345-K)

6.4.4.7. Air flow status sensors for all supply, return, exhaust and relief applications shall be differential pressure type.

6.4.4.7.1. Fan arrays (fan wall technology) shall be coordinated through control engineering.

6.4.4.7.2. Where Fan Wall Technology is utilized, an adjustable differential pressure switch shall be installed across the fan wall.

6.4.4.7.3. An additional current transducer at each motor shall be installed for alarming purposes.

6.4.4.8. Hydronic flow status sensors shall be differential pressure type and suitable for intended application. No paddle switches. Provide external bleed ports in an H frame configuration. Refer to *CHILLED WATER DIFFERENTIAL PRESSURE TRANSDUCER DETAIL* in Appendices.

- 6.4.4.9. Water Temperature Sensors shall be installed in separate immersion wells.
- 6.4.4.10. All relays and power supplies shall be mounted in an interface panel directly beside DDC panel and shall be clearly labeled as to their functions.
- 6.4.4.11. Current transducers shall be industrial type with separate zero and span adjustments.
- 6.4.5. Terminal Air Box (TAB) Controllers:
 - 6.4.5.1. Standalone controllers capable of performing control functions related to variable air volume zone control for terminal air boxes independently from other controllers in the network.
 - 6.4.5.2. Each TAB controller shall be capable of controlling the following configurations of variable air volume types:
 - 6.4.5.2.1. Single Duct, cooling only.
 - 6.4.5.2.2. Single Duct with Reheat.
 - 6.4.5.2.3. Double Duct.
 - 6.4.5.2.4. Fan-Powered, Parallel or Series Flow.
 - 6.4.5.2.5. Remote Heating.
 - 6.4.5.3. Controller shall support various digital and analog inputs and outputs as needed for damper control, control valves, electric coils, airflow sensors, remote heating, occupancy sensors, associated exhaust, discharge air temperature sensor, etc., and shall be capable of independent occupancy scheduling.
 - 6.4.5.4. Systems set points, proportional bands, control algorithms, and any other programmable parameters shall be stored such that a power failure of any duration does not necessitate reprogramming of the controller.
 - 6.4.5.5. Valve actuators shall be proportional control 0 to 10 volt DC. No spring return actuators with zone control devices.
- 6.4.6. Low Temperature Safety: Low-limit switches shall have low point sensitive elements (not averaging type) installed to cover the entire duct/coil area. These switches shall be 2-position manual reset type, wired to shut down the supply fan and send an alarm at the DDC system.
- 6.4.7. Chilled Water System Differential Pressure Control: When the design utilizes "Flow Control Industries Delta P Valves," the manufacturer's recommended control strategy shall be applied.
 - 6.4.7.1. Refer to the "Flow Control Industries Delta P Valve System Design Manual" for proper application.
- 6.4.8. Building pressurization:
 - 6.4.8.1. Volume tracking shall be used for these applications.
 - 6.4.8.2. Building pressure shall be a monitored point only.

6.4.9. Building steam pressure shall be monitored on the secondary side of all pressure reducing valves.

6.4.10. Humidity Control:

6.4.10.1. Units that have humidity control require the following:

6.4.10.1.1. Zone humidity

6.4.10.1.2. Return air humidity

6.4.10.1.3. Discharge air humidity:

6.4.10.2. Discharge high humidity limit switch shall be wired back as feedback to the DDC controls and hard wired to the humidity valve.

6.4.11. Air Handler Heating and Cooling Water Coils: Per control valve, provide supply and return temperature sensors on coil header piping.

6.4.12. Air Handler and Exhaust Fans Safety Static Pressure Sensors:

6.4.12.1. Provide low static sensor on inlet side of all supply, return and exhaust fans. Mount sensor on unit.

6.4.12.2. Provide high static sensor on discharge side of supply fans before fire smoke dampers. Mount sensor on unit.

6.4.13. Automatic Control Valves:

6.4.13.1. Provide factory fabricated electronic control valves of type, body material, and pressure class required for application.

6.4.13.2. Provide valve size in accordance with specified maximum pressure drop across control valve.

6.4.13.3. Equip control valves with heavy-duty electronic actuators, with proper shutoff ratings.

6.4.13.4. Steam Service Valves shall have linear characteristics with range ability of 30 to 1150 psi pressure class, and maximum full flow pressure drop of 60 percent of inlet pressure for low-pressure systems.

6.4.13.5. Valve Trim and Stems shall have bronze trim with stainless steel stem

6.4.13.6. Packing shall be spring-loaded Teflon, self-adjusting.

6.4.14. Dampers:

6.4.14.1. Automatic dampers shall be single or multiple blade and furnished by the DDC subcontractor.

6.4.14.2. Dampers shall be installed by the HVAC subcontractor under the supervision of the DDC subcontractor.

- 6.4.14.3. Damper frames shall be constructed of 13-gauge galvanized sheet metal and shall have flanges for duct mounting.
- 6.4.14.4. Damper blades shall not exceed 6 inches in width. All blades shall be of corrugated type construction, fabricated from two (2) sheets of 22-gauge galvanized sheet steel, spot-welded together. Blades shall be oil impregnated sintered metal.
- 6.4.14.5. Replaceable butyl rubber seals shall be provided with the damper. Seals shall be installed along the top, bottom, and sides of the frame and long each blade edge. Seals shall provide a tight closing, low leakage damper.
- 6.4.14.6. Dampers to be installed in fume hood exhaust ducts shall be of all stainless steel construction with high quality bearings for service in a corrosive environment.
- 6.4.14.7. Damper shaft shall be exposed and mechanically marked (indicating damper position) for enabling easy access for maintenance, repair and future replacement.
- 6.4.14.8. Damper leakage shall be rated for a class 1A or better. Refer to AMCA 500-D-98.
- 6.4.15. Damper and Valve Motors:
 - 6.4.15.1. Size each motor to operate dampers or valves with sufficient reserve power to provide smooth modulating action.
 - 6.4.15.2. Actuator shall have electronic overload or digital rotation sensing circuitry to prevent damage to the actuator throughout the entire rotation of the actuator.
 - 6.4.15.3. Mechanical end switches to deactivate the actuator at the end of rotation are not acceptable.
 - 6.4.15.4. For power-failure/safety applications, an internal mechanical spring return mechanism shall be built into the actuator. Non-mechanical forms of fail-safe operation are not acceptable.
 - 6.4.15.5. Proportional actuators shall accept a 0 to 10 volt DC. All actuators shall provide a 0 to 10 volt DC position feedback signal.
 - 6.4.15.6. All 24-volt AC/DC actuators shall operate on Class-2 wiring and shall not require more than 14 VA for AC or more than 8 watts for DC applications. Actuators operating on 120-volt AC power shall not require more than 10 VA.
 - 6.4.15.7. Non-spring return actuators shall have an external manual gear release to allow manual positioning of the damper when the actuator is not powered.
 - 6.4.15.8. Spring return actuators with more than 60 inches/pound torque capacity shall have a manual crank to allow manual positioning of the damper when the actuator is not powered.
 - 6.4.15.9. Actuators shall be sized for proper speed of response at the velocity and pressure conditions to which the control damper is subject.
 - 6.4.15.10. Shall produce sufficient torque to close off against the maximum system pressures encountered.

- 6.4.15.11. Dampers installed in fume hood exhaust ducts shall be of stainless steel construction with high quality bearings, etc., for service in a corrosive environment.
- 6.4.15.12. Actuators shall be designed for a minimum of 60,000 full stroke cycles at the actuator's rated torque. Manufacturer shall be ISO9001 certified.
- 6.4.15.13. Approved manufacturers include Johnson Controls and Belimo.
- 6.4.16. Combination Air Flow and Temperature Measurement Station (AFMS):
 - 6.4.16.1. General
 - 6.4.16.1.1. CSC shall provide thermal dispersion-type, combination airflow and air temperature measurement devices where indicated on the drawings and/or control sequences.
 - 6.4.16.1.2. Each measuring device shall consist of multi-point sensor nodes in one (1) or more probe assemblies with a maximum of sixteen (16) sensor nodes per location, and a single remotely mounted 32-bit microprocessor-based transmitter for each measurement location.
 - 6.4.16.1.3. Airflow and temperature measuring devices shall be UL Listed as an entire assembly. Devices in UL labeled enclosures are not equivalent and shall not be used without a UL Listing for Standard 873.
 - 6.4.16.1.4. Design and installation shall use duct-mounted devices in filtered airstreams and adequate access shall be provided for maintenance.
 - 6.4.16.1.5. Fan inlet sensors shall not be substituted for duct or plenum sensor probes.
 - 6.4.16.1.5.1. Where fan inlet mountings are accepted, mounting styles shall be indicated on the plans as either "face-mounting" or "throat-mounting."
 - 6.4.16.1.5.1.1. Face mounting shall have no mechanical fastening in the throat or on the surface of the inlet cone
 - 6.4.16.1.5.1.2. Face mounting shall be used on all performance-sensitive plenum-type or plug fans.
 - 6.4.16.1.6. The device selected shall be capable of reading accurately throughout the full, intended range of airflow.
 - 6.4.16.2. Basis of Design shall be EBTRON, Inc., Gold Series
 - 6.4.16.3. Transmitter:
 - 6.4.16.3.1. Each transmitter shall have a display capable of simultaneously displaying both airflow and temperature.
 - 6.4.16.3.2. Airflow rate shall be field configurable to be displayed as velocity or volumetric rates, selectable as IP or SI units.

6.4.16.3.3. Each transmitter shall operate on 24 VAC and be fused and protected from over voltage, over current and power surges.

6.4.16.3.4. All integrated circuitry shall be industrial grade temperature rated.

6.4.17. Air Flow Monitoring Stations:

6.4.17.1. Device shall be capable of reading accurately throughout the full, intended range of airflow.

6.4.17.2. Basis of design shall be Air Monitor Corporation, VOLU-probe or VOLU-probe/FI.

6.4.18. Miscellaneous Devices:

6.4.18.1. Provide all the necessary switches, relays, transformers, etc., to make a complete and operable system.

6.4.18.2. Locate devices in local interface panel, unless otherwise specified.

6.4.18.3. All buildings shall have a building static pressure sensor which has been field verified with Owner.

6.5. Installation:

6.5.1. Install all equipment in accordance with equipment manufacturer's published instructions. Furnish printed copies of these instructions to the Owner prior to installation.

6.5.2. Identification:

6.5.2.1. All equipment, including valves, dampers, etc., shall be identified by a unique equipment number and the equipment tagged after installation.

6.5.3. DDC Panels:

6.5.3.1. Neatly train wiring inside Panduit wire management system.

6.5.3.2. Mount relays and devices on din rail.

6.5.3.3. Control wiring cable sheath shall be stripped backed no more than 6 inches from control terminations.

6.5.3.4. Label electrical circuit number inside DDC panel door.

6.5.4. Wiring:

6.5.4.1. Wiring, including low voltage wiring, shall comply with the requirements of the Electrical Sections of the specifications. Wiring methods shall be in accordance with the requirements of applicable codes.

6.5.4.2. Install control wiring in conduit when exposed within the space, mechanical rooms, exterior locations, etc. Low voltage control cable installed per the NEC within a concealed location.

- 6.5.4.3. Control network communication cable and AC power wiring greater than 24 volts shall not share the same conduit nor shall they occupy the same enclosure unless an appropriate grounded metallic barrier is installed between these wiring types.
- 6.5.4.4. Wiring from remote equipment shall be to terminal blocks. The terminal blocks shall be permanently marked for identification. Wire nut connections are not allowed in control panel wiring.
- 6.5.4.5. Label each field wire at each end. All relays and transformers in panels shall be labeled.
- 6.5.4.6. Splices shall not be made in shielded wiring except where specifically required. Splices shall be made on terminal blocks in approved junction boxes. Outlet boxes shall not be used for splices. Comply with labeling requirements above.
- 6.5.4.7. If the DDC system is controlling a piece of equipment that is on emergency power, the DDC panel shall be connected to the same source of emergency power.
- 6.5.4.8. Powering for DDC control devices shall originate from dedicated control power circuits. DDC Constructor will identify on submittal riser diagram the devices power by each circuit.

6.6. Air Flow Matrix:

- 6.6.1. Refer to Section III for information.

6.7. Testing:

6.7.1. BACnet Testing:

- 6.7.1.1. Conduct on-site device testing using the BACnet Manufacturers Association / BACnet Testing Laboratories (BMA/BTL) Virtual Test Shell 3.5.0 (VTS) program.

VI. ELECTRICAL

The following information is provided as a general guideline in establishing Electrical Engineering project specific requirements.

1. GENERAL

1.1. General:

- 1.1.1. Refer to Section III for information.

1.2. Identification:

- 1.2.1. All switching, protective devices and metering on main distribution panels shall be identified with labels.
- 1.2.2. Equipment labels shall be adhesive-backed vinyl or plastic with ½ inch letters.
- 1.2.3. Identification labels are required for all distribution equipment from the service through branch circuit panelboards and motor control centers. Label shall include equipment name and circuit origin.

- 1.2.3.1. Provide label on the inside of the panel door in public spaces. Refer to *Arc Flash* requirements, below, for additional information.
 - 1.2.3.2. Provide label on the outside of equipment in Mechanical, Electrical and non-public spaces.
 - 1.2.4. Label inside cover of all safety switches with fuse size, type, current limiting ability and devices controlled.
 - 1.2.5. Label all receptacles on the cover plate with self-adhesive labels. Label shall indicate panel room number, panel name, and circuit number.
 - 1.2.6. All light fixtures shall be labeled with the panel number and circuit number from which they are fed. Place label out of public view. Coordinate label location with the Owner.
 - 1.2.7. All junction box covers shall be labeled with the panel room number, panel number, and circuit numbers contained in the junction box.
 - 1.2.7.1. Exposed boxes in finished areas shall be labeled on inside of cover.
 - 1.2.7.2. Exposed boxes in unfinished areas shall be labeled on outside of cover.
 - 1.2.7.3. Concealed boxes above accessible ceilings shall be labeled on outside of cover.
- 1.3. Arc Flash:
 - 1.3.1. Constructor shall provide as-installed equipment and feeder data to Design Professional for use in completing the Record Arc Flash Assessment.
 - 1.3.2. Equipment Labeling:
 - 1.3.2.1. All new and modified equipment, as identified in NFPA 70E, Current Edition, shall be labeled. Label shall include, at a minimum, the information identified in NFPA 70E.
 - 1.3.2.2. Apply labels to the face of the equipment enclosure so that they will be visible without opening a door, panel, or enclosure plate.
 - 1.3.2.3. Arc flash labels shall be a permanently attached, non-aging material with waterproof, abrasion resistant lettering.
- 1.4. Grounding:
 - 1.4.1. All grounding electrodes shall be tested to the recorded resistance value specified by the Design Professional. Provide two (2) copies of testing reports to the Owner.
- 2. MEDIUM-VOLTAGE (601 VOLTS – 69k VOLTS) ELECTRICAL DISTRIBUTION
 - 2.1. Medium voltage switchgear, transformers, metering, and cabling by Owner.
 - 2.2. Raceways: Constructor shall furnish a minimum 1 inch rigid metal raceway from primary building electric meters to the utility network cabinet. Refer to *UTILITY DISTRIBUTION UTILITY NETWORK CABINET DETAIL* in Appendices.

3. LOW-VOLTAGE ELECTRICAL DISTRIBUTION

3.1. Equipment:

3.1.1. Design:

- 3.1.1.1. Provide nominal 3.5 inch high housekeeping pads for floor mounted equipment. Pads shall extend 4 inches beyond the equipment.
- 3.1.1.2. Exterior and interior surfaces of electrical equipment enclosures shall be wiped or cleaned with a vacuum immediately prior to final acceptance.
- 3.1.1.3. Scratches on painted surfaces shall be touched up with equipment manufacturer's standard paint of matching color.
- 3.1.1.4. Provide five (5) spare $\frac{3}{4}$ inch conduit stubs from flush panels into suspended ceiling space or other accessible space.
- 3.1.1.5. Provide each panel with a clear, plastic covered, typed circuit schedule. The schedule shall identify circuits by room number and location in room using final room numbers provided by the Owner.
- 3.1.1.6. Provide branch circuit electrical panels in General Education Buildings with Best 5E Series $\frac{3}{4}$ -inch Utility Cylinder. Key to MK EB and EB1.

3.1.2. Transient Voltage Surge Suppression:

- 3.1.2.1. Refer to Section III for information.

3.1.3. Switchboards:

- 3.1.3.1. Covers to consist of full-length hinge, door within a door.
- 3.1.3.2. Approved manufacturers include Square D, General Electric and Cutler-Hammer.

3.1.4. Panelboards:

- 3.1.4.1. Circuit breakers on branch circuit panelboards shall be bolt-on type.
- 3.1.4.2. Approved manufacturers include Square D I-Line, GE Spectra Series, and Cutler-Hammer.

3.1.5. Motor Control Center:

- 3.1.5.1. Approved manufacturers include Square D, General Electric and Cutler-Hammer.

3.1.6. Breakers, Fuses and Safety Switches:

- 3.1.6.1. Each project shall supply one (1) set of three (3) spare fuses for each type and size fuse installed.
- 3.1.6.2. Provide spare fuse storage cabinet of metal Construction. Cabinet shall be labeled and mounted as directed by Owner.

- 3.1.6.3. Safety switches shall be heavy duty.
- 3.1.6.4. Safety switches in mechanical rooms shall have minimum NEMA 3R enclosures.
- 3.1.6.5. All safety switches shall have a grounding bar.
- 3.1.6.6. Approved manufacturers include Square D, General Electric and Cutler-Hammer

3.1.7. Variable Frequency Drive :

- 3.1.7.1. Manufacturer shall provide harmonic analysis of the supplied VFD. Total harmonics shall not to exceed 3 percent.
- 3.1.7.2. Provide factory installed MSTP interface card in each VFD.
- 3.1.7.3. Provide startup services by a Factory-Certified Service Representative
- 3.1.7.4. Provide a minimum of 4 hours of Owner training.
- 3.1.7.5. Approved manufacturers: ABB, Allen-Bradley, Toshiba and Schneider Electric.
- 3.1.7.6. Refer to *VARIABLE Frequency DRIVE MOUNTING DETAILS* in Appendices.

3.2. Devices:

- 3.2.1. Receptacles and switches shall be heavy-duty, minimum specification grade, minimum 20 amp rating.
- 3.2.2. Receptacles and switches shall be side and back wiring type. All wire connections shall be screw clamp or wire nut type.
- 3.2.3. Install switches at 48 inches above finished floor. Install receptacles at 18 inches above finished floor.
- 3.2.4. Install 120 volt receptacles with the ground up.
- 3.2.5. Approved Manufacturers:
 - 3.2.5.1. Switches shall be Hubbell, Leviton 1221, or Pass and Seymour
 - 3.2.5.2. Receptacles shall be Hubbell 5362, Leviton 5362A, or Pass and Seymour.
 - 3.2.5.3. Isolated Ground Duplex Receptacles shall be Hubbell, Leviton, or Pass and Seymour IG5362.
 - 3.2.5.4. Plugmold shall be Wiremold V24GB306.
 - 3.2.5.5. Plugmold Pigtail shall be Pass and Seymour S266-X 12/3 type SJOW cord.

3.3. Raceways, Boxes, and Supports:

- 3.3.1. Raceway and Boxes:

- 3.3.1.1. For Branch Circuits, the minimum conduit size shall be $\frac{3}{4}$ inch. The minimum size for flexible metal conduit shall be $\frac{1}{2}$ inch.
- 3.3.1.2. Conduit shall be supported from the building structure. Attachment to other pipes, conduits, ductwork, etc., shall not be allowed.
- 3.3.1.3. At the points where conduit penetrates concrete that is in contact with soil, that conduit shall be Schedule-80 PVC bedded in sand. If the PVC is a bend of greater than 45-degrees, the bend shall be completely encased in concrete.
- 3.3.1.4. All metallic fittings shall be compression-type rated for ground connection.
- 3.3.1.5. All fittings shall be galvanized steel or malleable iron.
- 3.3.1.6. EMT shall not be used outdoors, in wet locations, in floor crawl spaces, or within 5 feet of finished grade.
- 3.3.1.7. The use of flexible metal conduit shall be limited to recessed lighting fixtures. Maximum length shall be 6 feet.
- 3.3.1.8. Liquidtight flexible metal conduit shall be used to connect rotating, vibrating or moveable equipment.
- 3.3.1.9. Empty conduits shall have nylon pull cords installed with temporary caps or plugs.
- 3.3.1.10. Non-Metallic Conduit or Boxes:
 - 3.3.1.10.1. Shall be used only in wet locations.
 - 3.3.1.10.2. May be used for underground electric circuits less than 600 volts which are:
 - 3.3.1.10.2.1. Under paved areas and areas scheduled to be paved.
 - 3.3.1.10.2.2. Next to permanent buildings, under formal planting beds and in extremely high areas that would be difficult to excavate due to regular heavy use.
 - 3.3.1.10.3. Shall be Schedule-40 minimum weight and to be designed for electric application with all connections solvent-welded.
 - 3.3.1.10.4. Conduit 2 inches and smaller shall be a minimum of Schedule 80.
 - 3.3.1.10.5. Schedule 80 PVC conduit shall be utilized anywhere non-metallic conduit emerges from concrete or where conduit may receive physical abuse.
- 3.3.1.11. Maintain a 6 inch minimum from top of ceiling tile support grid to any raceway.
- 3.3.1.12. Raceways, boxes and their supports shall be compatible with the atmosphere of the area in which they are installed.
- 3.3.2. Hangers and Supports:
 - 3.3.2.1. Lead, fiber, wood, and powder actuated anchors are prohibited.

3.3.2.2. Bolted conduit clamps are prohibited less than 8 feet above finished floor in public areas.

3.4. Wire and Cable:

- 3.4.1. Number 10 AWG shall be used when length of wire serving floor maintenance receptacles exceeds 100 feet.
- 3.4.2. Provide dedicated neutral and ground for each isolated ground device.
- 3.4.3. The minimum wire size for lighting and power branch circuits is #12 AWG.
- 3.4.4. The minimum wire size for Class 1 control circuits is #14 AWG.
- 3.4.5. Any conductors installed in flexible conduit at terminal connections of rotating, vibrating or moveable equipment shall be of stranded wire.
- 3.4.6. Color code secondary service, feeder, and branch circuit conductors with factory applied color as follows:

208/120 VOLTS	PHASE	480/277 VOLTS
BLACK	A	Brown
Red	B	Orange
Blue	C	Yellow
White	Neutral	White or Gray
Green	Ground	Green

3.5. Metering and Switchgear:

3.5.1. Metering:

- 3.5.1.1. Additional electric kilowatt-hour meters may be needed to properly account for other customer electric power usage.
- 3.5.1.2. Place a disconnect means ahead of meter.
- 3.5.1.3. Meter sockets/boxes for self-contained meter sites shall be provided by UI Meters and Controls and shall be installed and wired by the Constructor.
 - 3.5.1.3.1. All cabling shall be clearly labeled.
 - 3.5.1.3.2. Meters shall be provided and installed by UI Meters and Controls.
 - 3.5.1.3.3. CTs and PTs shall be provided by Owner and installed by Constructor. CT and PT wiring to meters shall be by the Owner.

3.5.1.4. Metering Raceways:

3.5.1.4.1. Constructor shall provide a 1 inch minimum raceway from utilities network cabinet to socket based electrical meters.

3.5.1.4.2. Rigid metal if outside, EMT acceptable if inside.

3.5.1.4.3. For multiple electric meters in one location, Constructor shall provide and install a 12 inch by 12 inch by 4 inch junction box.

3.5.1.4.3.1. Junction box shall have with backplane and be centrally located near electric meters.

3.5.1.4.4. Provide raceways to each meter from junction box and from junction box to utility network cabinet.

3.5.1.4.5. Refer to *UTILITY DISTRIBUTION UTILITY NETWORK CABINET DETAIL* in Appendices.

3.5.1.5. Wire and Cable for Metering: UI Meters and Controls will provide, pull and terminate all cabling.

3.5.2. Switchgear:

3.5.2.1. Secondary utility disconnect switchgear shall be furnished and installed by Owner.

4. EMERGENCY AND BACKUP POWER SYSTEMS

4.1. Life Safety Backup Power:

4.1.1. Packaged Generator Assemblies:

4.1.1.1. Provide startup services and training for Owner's personnel by a Factory-Certified Service Representative.

4.1.1.2. Submit a completed manufacturer's start-up checklist.

4.1.1.3. Fuel piping and venting from outside of the building for day tank filling shall be hard-piped.

4.1.1.4. A high liquid level device shall be provided for day tank overflow protection.

4.1.1.5. Manufacturer shall have a service center within a 100 mile radius of The University of Iowa.

4.1.1.6. The engine's New Source Performance Standard (NSPS) compliance certificate shall be submitted to the Owner.

4.1.1.7. If diesel generator is allowed by Owner, diesel fuel for generators shall be limited to a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.

4.1.2. Battery Equipment:

4.1.2.1. Batteries on racks or in cabinets shall be accessible for maintenance.

4.1.2.2. Provide 24 inches minimum vertical access above batteries.

4.2. Non-Life Safety Backup Power:

4.2.1. Refer to Section III for information.

4.3. Load Shedding Generation:

4.3.1. Refer to Section III for information.

4.4. Generator Environmental and Code Compliance:

4.4.1. Refer to Section III for information.

4.5. Monitoring and Data Transmission:

4.5.1. Refer to Section III for information.

4.6. Transfer Switches:

4.6.1. Refer to Section III for information.

5. LIGHTING

5.1. General:

5.1.1. Refer to Section III for information.

5.2. Submittals and Shop Drawings:

5.2.1. Submit dimensioned drawings of lighting fixtures.

5.2.2. Submit a separate sheet for each light fixture, lamp, and ballast, assembled in order of luminaire "type" designation. Clearly indicate fixture type, manufacturer, model number, and accessories for each item.

5.2.3. Submit a "Lamp and Ballast Schedule" noting fixture type, lamp designation, lamp manufacturer, and local supplier for each fixture.

5.2.4. LED fixture submittals shall include photometric reports per IES LM-79 guidelines.

5.2.4.1. Report shall be for the latest generation system being furnished, including independent testing laboratory name, report number, date, luminaire model number, input wattage, delivered lumens and driver specifications.

5.2.4.2. Provide manufacturer of origin for the LED chipset included in the fixture.

5.3. Interior Lighting:

5.3.1. Design:

5.3.1.1. Refer to Section III for information.

5.3.2. Classroom Design:

5.3.2.1. Refer to Section III for information.

5.3.3. Daylighting:

5.3.3.1. Refer to Section III for information.

5.3.4. Ballasts:

5.3.4.1. All ballast cases shall be bonded to the equipment grounding conductor.

5.3.4.2. Ballasts shall be serviceable while the fixture is in its normally installed position and shall not be mounted to removable reflectors or wire-way covers unless so specified.

5.3.4.3. Utilize parallel-wired ballasts where possible so that if one (1) lamp fails remaining lamps stay on.

5.3.4.4. All ballasts shall have a sound rating "A" and total THD of 10 percent or less.

5.3.4.5. Remote-mounted ballasts shall be located in an accessible, cool, dry location with adequate ventilation.

5.4.4.5.1. Each ballast shall be labeled to correspond to its specific fixture and location.

5.4.4.5.2. Manufacturer's published limitations for remote distances shall not be exceeded.

5.3.4.6. Select lighting fixtures with tool-less access to ballasts for ease of maintenance.

5.3.4.7. In existing buildings, all compact fluorescent ballasts shall be provided with integral end-of-life sensor so that ballast does not provide continuous voltage to a lamp once the lamp has reached its end-of-life.

5.3.4.8. Utilize parallel-wired ballasts where possible so that if one (1) lamp fails the remaining lamps stay on.

5.3.4.9. Clearly label all specialty ballasts (dimming, stepped dim, high or low ballast factors, etc.) to prevent incorrect replacements.

5.3.4.10. Coordinate with Environmental Health and Safety for disposal of existing ballasts.

5.3.5. Lamps:

5.3.5.1. Burn-in all lamps that require specific aging period to operate properly, prior to occupancy by Owner. Burn-in fluorescent lamps intended to be dimmed as per manufacturer recommendations.

5.3.5.2. Coordinate with Environmental Health and Safety for disposal of existing lamps.

5.3.6. Lighting Fixtures (luminaries):

- 5.3.6.1. Provide all lighting fixtures with a specific means for grounding their metallic wire-ways and housings to an equipment grounding conductor.
- 5.3.6.2. The manufacturer shall apply a standard finish over a corrosion-resistant primer, after cleaning to free the metal surfaces of rust, grease, dirt, and other deposits. Edges of pre-finished sheet metal shall be finished in a similar corrosion-resistant manner to match the adjacent surface(s).
- 5.3.6.3. Fixture finish shall be free of stains or evidence of rusting, blistering or flaking.
- 5.3.7. LED Lamps and Fixtures:
 - 5.3.7.1. All LED fixtures shall have a maximum Correlated Color Temperature variance of +/- 100 degrees K. Products installed in field with greater variance shall be replaced at no cost to Owner.
 - 5.3.7.2. All LED fixtures, modules, or arrays, per type, shall be provided with the same date code of manufacture.
 - 5.3.7.3. Submit driver data and dimmer compatibility list as provided by the manufacturer. Constructor shall furnish and install only dimmers listed as compatible with the specified LED lighting fixture.
 - 5.3.7.4. Constructor shall be responsible for verifying that installed dimming controls are compatible with and approved by the luminaire manufacturer prior to submittals to the Lighting Designer.
 - 5.3.7.5. LED fixtures shall be provided with a driver and light source as a modular system.
 - 5.3.7.6. All LED drivers shall carry a minimum life expectancy of 50,000 hours.
 - 5.3.7.7. LED fixtures shall use passive cooling (heat sinks) or active cooling (Synjet or heat pipe) to ensure LED operating temperature are within manufacturer's specifications. Active cooling systems involving fans or other maintainable mechanical parts are prohibited.
- 5.3.8. Emergency Lighting and Exit Signs:
 - 5.3.8.1. Emergency lighting and exit sign units shall not be mounted higher than 10 feet above finished floor.
 - 5.3.8.2. Center exit signs on building elements, such as corridors and doorways.
 - 5.3.8.3. Exit Signs:
 - 5.3.8.3.1. Signs shall be cast or stamped aluminum, minimum 0.090 inch (2.25 mm) thick, stenciled with 6 inch (150 mm) high letters, backed with red, color-stable plastic or fiberglass.
 - 5.3.8.3.2. Lamps shall be red or green LED, mounted in center of letters on red or green color-stable plastic or fiberglass.
 - 5.3.8.3.3. LED shall be rated minimum twenty-five (25) year life.

5.3.8.3.3.1. LED exit light fixtures without diffuser panels shall be maximum of 3.5 watts for single-faced and 7 watts for double-faced.

5.3.8.3.3.2. LED exit light fixtures with diffuser panels shall use 1 watt maximum per fixture for single-or double-faced.

5.3.8.3.4. Fixtures shall be wired for universal 120 to 277-volt.

5.3.8.3.5. EXIT signs shall comply with UL 924 and EPA Energy Star Specifications at the end of five (5) years of continual use.

5.3.8.3.6. At the end of five (5) years of continual use (when measured at 0-degrees and 45-degree viewing angles), average luminance shall be greater than 15 candelas/meter, minimum luminance shall be greater than 8.6 candelas/meter, and maximum-to-minimum luminance ratio shall be less than 20:1. Letter illumination shall appear when viewed in a typical installation.

5.3.8.3.7. There shall be no radioactive material used in the fixtures.

5.3.8.4. Emergency Fixtures:

5.3.8.4.1. System shall consist of an automatic power failure device and fully automatic solid-state charger in a self-contained power pack.

5.3.8.4.2. Charger shall be trickle, float, constant-current or constant-potential type, or a combination of these.

5.3.8.4.3. Battery shall operate unattended and require no maintenance, including no additional water, for a minimum of five (5) years.

5.3.8.5. Exit signs and emergency lighting equipment shall include self-testing module to perform the following functions:

5.3.8.5.1. Self-diagnostics shall monitor LED status, LED load transfer circuit, battery capacity and charger function and display any fault detection by means of a flashing code.

5.3.8.5.2. Self-test feature shall automatically run a one (1) minute test once a month and an alternating 30 or 60-minute test once every six (6) months.

5.3.8.5.3. Multi-color LED on-board indicators shall provide visible fault detection and charging status.

5.3.8.5.4. Manual test switch to simulate a discharge test cycle.

5.3.8.5.5. Module shall have low voltage battery disconnect and brown-out protection circuit.

5.3.9. Fixture Installation:

5.3.9.1. Luminaires located in suspended ceilings shall be connected with a maximum 6 foot length of flexible metal conduit.

- 5.3.9.2. Use number 12 AWG (min) light fixture whips.
- 5.3.9.3. Luminaires shall be fitted with swivels or otherwise adjusted so they hang plumb and true.
- 5.3.9.4. Fixtures in finished spaces shall not be chain hung.
- 5.3.9.5. Housing, trim, and lens frame shall be true, straight and parallel to each adjacent fixtures and features.
- 5.3.9.6. Fixtures shall not be supported by ceiling acoustical panels.
- 5.3.9.7. Troffer, recessed and semi-recessed fixtures shall be independently supported from the building structure by a minimum of four (4) wires, straps or rods, located near each corner of each fixture. Ceiling grid clips shall not be allowed as an alternative to independently supported light fixtures.
- 5.3.9.8. Round fixtures or fixtures smaller than the ceiling grid shall be independently supported from the building structure by a minimum of four (4) wires, straps or rods, per fixture, spaced equidistant around the fixture.
- 5.3.9.9. Round fixtures or fixtures smaller than the ceiling grid shall have at least two (2) 3/4 inch (19 mm) metal channels spanning, and secured to, the ceiling tees for centering and aligning the fixture.
- 5.3.10. Quality Control:
 - 5.3.10.1. Foot candle measurements shall be taken after lamps have been in service for one-hundred (100) hours.
 - 5.3.10.1.1. Obtain measurements during periods of darkness at a sufficient number of locations to demonstrate that the design criteria have been met.
 - 5.3.10.1.2. Results shall be submitted to Owner.
 - 5.3.10.2. Where ballast noise is audible above the ambient noise, use sound level meter (capable of measuring as low as 35 dB) to test ballast. Replace all ballasts outside of specified range.
 - 5.3.10.3. Test all emergency fixtures and exit signs under power failure conditions.
 - 5.3.10.4. Lighting Designer shall observe and direct Constructor in the field for final aiming of each adjustable fixture.
 - 5.3.10.4.1. Aiming shall occur after sunset, at a time designated by the Owner.
 - 5.3.10.4.2. All materials and labor necessary for the final aiming and adjusting shall be included in the Constructor's base bid.
 - 5.3.10.5. Include provisions for pre-construction meeting between manufacturer's representatives, Lighting Designer, Constructor and Owner to verify required devices, placement, intended operation, and wiring scenarios.

- 5.3.10.6. Constructor shall verify that installation of controls is complete and correct per manufacturer provided drawings and specifications. Demonstrate fully operational system to the Owner prior to scheduling training.
- 5.3.10.7. The Owner reserves the right to videotape each training session for use in future training programs.
- 5.3.10.8. Training shall include:
 - 5.3.10.8.1. A combination of classroom and field venues (all typical room types).
 - 5.3.10.8.2. Complete overview of the entire system identifying specific features and operating descriptions.
 - 5.3.10.8.3. Provide specific instructions on how to turn lights on, off, dim lights, etc., allowing for hands-on participation.
 - 5.3.10.8.3.1. Review of each device that is part of the lighting system, including specific luminaires. Review shall include device purpose, how it is used, how the user interfaces with the device, etc. The Constructor shall bring minimum one (1) of each component to the training event so participants can “touch and hold” each device.
 - 5.3.10.8.4. If the system includes daylight-harvesting functionality, provide a complete description of how the daylight-harvesting system works.
 - 5.3.10.8.5. Provide detailed instructions and demonstrations on how to adjust, calibrate, program, troubleshoot, repair, and replace each sensor and major system component.
 - 5.3.10.8.6. Provide detailed instructions and demonstrations on how to repair and troubleshoot individual luminaires.
 - 5.3.10.8.7. For computerized systems, provide detailed system login, programming, reporting, and troubleshooting instructions.

5.4. Interior Lighting Controls:

5.4.1. Design:

- 5.4.1.1. Provide Sequence of Operation for each lighting control strategy and condition in the Documents.
- 5.4.1.2. Manufacturer to retest controls within one (1) year after occupancy to ensure systems are operating as intended.
- 5.4.1.3. Where dual-level or multi-level switching is provided, switches shall control the same lamp sets at each fixture.
- 5.4.1.4. Project specific control layouts shall be included in the Manufacturer’s submittals. Include Manufacturer’s layout indicating coverage areas and sensor types.

5.4.1.5. The control system shall be complete for all Sequences of Operation and include hardware, software, hand-held devices, panels, cables, etc., as required to test, troubleshoot, program, and operate the system.

5.4.1.6. Provide complete programming and source code to Owner.

5.4.1.7. Ceiling sensors shall be located minimum of 4 feet from supply air diffuser to avoid false activation.

5.4.1.8. Control cabling shall be labeled at both ends.

5.4.1.9. Control Scenarios:

SPACE TYPE	CONTROL TYPE	DURATION	HVAC Integration	NOTES
Classroom	Vacancy Sensor	15 minutes	Yes	Teacher over-ride off, test mode on (1 hr.), dimming
Restroom	Occupancy Sensor	15 minutes	No	No manual over-ride.
Office	Vacancy Sensor	15 minutes	Yes	Manual on. Potential for dual-level
Mechanical Room	Manual	N/A	No	Manual on/off only in mechanical areas
Conference	Vacancy Sensor and Dimming	15 minutes	Yes	Multi-zone, preset control. Possible a/v interface.
Open Office, Auditoria, Corridor, Common Areas	Occupancy Sensor or Central System	15 minutes	Yes	
Storage	Vacancy Sensor	15 minutes	Yes	
Laboratory	Occupancy Sensor	15 minutes	Yes	
Telecommunication Room	Manual	N/A	No	

5.4.2. Sensors:

5.4.2.1. Refer to Section III for information.

5.5. Exterior Lighting:

5.5.1. Wiring for exterior light fixtures shall be installed in Schedule 40 PVC conduit, 2 inch minimum. Minimum burial depth shall be 24 inches.

5.5.1.1. Tracer wire shall be pulled in conduit with wiring. Tracer wire shall be A-Z #12 Solid PE-30 green jacket with yellow stripe.

5.5.2. Temporary lighting around the perimeter of the project shall be provided during major construction projects which have displaced exterior lighting.

5.5.3. Circuiting shall be 208V, 3 phase, 4 wire plus ground with 120V fixtures being installed in a phase "a", "b", "c" alternating fashion. Provide fusing in base of pole, Ferraz Shawmut FEB-11-11 600V, 30A or equal.

5.5.4. Provide in-grade pull boxes (hand-holes) sized and located as required by NEC.

5.5.4.1. Pull-boxes shall be a minimum of 12 inches by 12 inches.

5.5.4.2. Quazite concrete service box #PC1212BA12 with lid #PC1212CA00.

5.5.4.3. Lid to read "U OF I ELECTRIC."

5.5.5. Exterior Lighting Fixtures:

5.5.5.1. Lighting bollards and luminaires in sidewalks, roadways and retaining walls are prohibited.

5.5.5.2. All light sources shall be LED. Color temperature shall be 4000 degrees K +/- 300 degrees.

5.5.6. Main Campus walkways, parking lots and outdoor gathering areas shall use the following fixtures:

5.5.6.1. Type S1:

5.5.6.1.1. Description: Single LED type 3 cobra head mounted on a 27 ½ foot concrete pole with 6 foot mast arm.

5.5.6.1.2. Luminaire: Lumark LD-RL-T3-E06-E-BZ -LCF, multi-volt, bronze color

5.5.6.1.3. Distribution: Type 3

5.5.6.1.4. Color Temperature: 4000K

5.5.6.1.5. Power Input: 146W

5.5.6.1.6. Lumen Output: 12302 lumens

5.5.6.1.7. Pole: Stresscrete P275-APH-G-S90-C/W-HEX RING, hexagonal, Pole Top: 4 inches, Pole Butt: 9-1/4 inches

5.5.6.1.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, 2-coats JB acrylic.

5.5.6.1.9. Mast Arm: KA186-H-1 ARM CH BRNZE-TXT

5.5.6.1.10. Mounting: Anchor bolts, concrete base

5.5.6.1.11. Application: Parking lots.

5.5.6.2. Type S2:

5.5.6.2.1. Description: Double LED type 3 cobra head mounted on a 27 ½ foot concrete pole with 6 foot double mast arms.

5.5.6.2.2. Luminaire: Two Lumark LD-RL-T3-E06-E-BZ -LCF, multi-volt, bronze color

5.5.6.2.3. Distribution: Type 3

5.5.6.2.4. Color Temperature: 4000K

5.5.6.2.5. Power Input: 146Wx2

5.5.6.2.6. Lumen Output: 12302x2 lumens

5.5.6.2.7. Pole: Stresscrete P275-APH-G-S90-C/W-HEX RING, hexagonal, Pole Top: 4 inches, Pole Butt: 9-1/4 inches

5.5.6.2.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, two (2) coats JB acrylic.

5.5.6.2.9. Mast Arm: KA186-H-2 ARM CH BRNZE-TXT, double mast arm.

5.5.6.2.10. Mounting: Anchor bolts, concrete base

5.5.6.2.11. Application: Parking lots.

5.5.6.3. Type S3:

5.5.6.3.1. Description: Single LED type 3 cobra head mounted on a 34 foot direct buried concrete pole with 6 foot mast arm.

5.5.6.3.2. Luminaire: Lumark LD-RL-T3-E06-E-BZ -LCF, multi-volt, bronze color

5.5.6.3.3. Distribution: Type 3

5.5.6.3.4. Color Temperature: 4000K

5.5.6.3.5. Power Input: 146W

5.5.6.3.6. Lumen Output: 12302 lumens

5.5.6.3.7. Pole: Stresscrete E340-APH-G-S90-C/W-HEX RING, hexagonal, Pole Top: 4 inches, Pole Butt: 10 1/2 inches

5.5.6.3.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, two (2) coats JB acrylic.

5.5.6.3.9. Mast Arm: KA186-H-1 ARM CH BRNZE-TXT

5.5.6.3.10. Mounting: Direct burial

5.5.6.3.11. Application: Parking lots.

5.5.6.4. Type S4:

5.5.6.4.1. Description: Double LED type 3 cobra head mounted on a 34 foot direct buried concrete pole with 6 foot double mast arm.

5.5.6.4.2. Luminaire: Two Lumark LD-RL-T3-E06-E-BZ -LCF, multi-volt, bronze color

5.5.6.4.3. Distribution: Type 3

5.5.6.4.4. Color Temperature: 4000K

5.5.6.4.5. Power Input: 142Wx2

5.5.6.4.6. Lumen Output: 12302x2 lumens

5.5.6.4.7. Pole: Stresscrete E340-APH-G-S90-C/W-HEX RING, hexagonal, Pole Top: 4 inches, Pole Butt: 10 ½ inches

5.5.6.4.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, two (2) coats JB acrylic.

5.5.6.4.9. Mast Arm: KA186-H-2 ARM CH BRNZE-TXT

5.5.6.4.10. Mounting: Direct burial

5.5.6.4.11. Application: Parking lots.

5.5.6.5. Type S5:

5.5.6.5.1. Description: LED pedestrian type 3 shoebox mounted on a 19 foot direct buried concrete pole with custom adapter, net pole height 14 feet.

5.5.6.5.2. Luminaire: Lumark LD-RV-T3-B03-E-BZ -LCF, multi-volt, bronze color

5.5.6.5.3. Distribution: Type 3

5.5.6.5.4. Color Temperature: 4000K

5.5.6.5.5. Power Input: 73W

5.5.6.5.6. Lumen Output: 6680 lumens

5.5.6.5.7. Pole: Stresscrete E190-APH-G-S90-C/W-HEX RING, hexagonal, Pole Top: 4 inches, Pole Butt: 7.61 inches.

5.5.6.5.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, two (2) coats JB acrylic.

5.5.6.5.9. Adapter: Custom hex fitter adapter

5.5.6.5.10. Mounting: Direct bury

5.5.6.5.11. Application: Pedestrian walkways

5.5.6.6. Type S6:

5.5.6.6.1. Description: LED pedestrian ornamental Queen Anne style luminaire on a decorative 10 foot cast-iron pole.

5.5.6.6.2. Luminaire: Spring City Electrical Mfg. William & Mary #ALMWML-LE080/EV1/X2-40-CN5-PPBP-FGV-CU. Benjamin Moore Bronzetone #163-60. Refer to Drawing #S102572.

5.5.6.6.3. Distribution: Type 5

5.5.6.6.4. Color Temperature: 4000K

5.5.6.6.5. Power Input: 80W

5.5.6.6.6. Lumen Output: x lumens

5.5.6.6.7. Pole:

5.5.6.6.7.1. Spring City Electrical Mfg. Edgewater #IPSEDG-18-10.00-TN7.00/.075-323/1NW-CU, 10 feet,

5.5.6.6.7.2. Light center: 10 feet - 8 11/16 inches, 18 inch Octagonal Base, 1 piece heavy wall cast iron per ASTM 11A 48-83 class 30, provide grounding stud, 4 each 3/4 inch by 24 inch by 3 inch hook (fully galvanized with 1 galvanized nut and 1 galvanized washer per bolt), access door located in base with tamper proof hex socket screws. Refer to Drawing #S102572.

5.5.6.6.7.3. Pole Finish: Prime paint Sherwin-Williams 2-part recoatable epoxy primer (B67H5-Part G and B67V5-Part H) final coat to be Sherwin Williams Semi-Gloss Black or Benjamin Moore Bronzetone depending on location (Black for Pentacrest and Cleary Walkway, Bronzetone elsewhere.)

5.5.6.6.8. Adapter: Tenon 7 inch diameter by 3/4 inch high.

5.5.6.6.9. Mounting: Anchor bolts, concrete base

5.5.6.6.10. Application: Pentacrest, T. Anne Cleary Walkway

5.5.6.7. Type S7:

5.5.6.7.1. Description: LED round pole-top luminaire on a 19 foot direct buried concrete pole with custom adapter, net pole height 14 feet.

5.5.6.7.2. Luminaire: Kim CCS-21P3-120L4K120-DB-P, bronze color

5.5.6.7.3. Distribution: Type 3

- 5.5.6.7.4. Color Temperature: 4200K
- 5.5.6.7.5. Power Input: 126W
- 5.5.6.7.6. Lumen Output: 10297 lumens
- 5.5.6.7.7. Pole: Stresscrete E190-APH-G-S90-C/W-HEX RING, hexagonal
- 5.5.6.7.8. Pole Finish: S90 Saluki Bronze B196-6-30-LS, polished finish, two (2) coats JB acrylic.
- 5.5.6.7.9. Adapter: Custom hex fitter adapter
- 5.5.6.7.10. Mounting: Direct burial
- 5.5.6.7.11. Application: Gathering areas

5.5.7. Oakdale Campus walkways, parking lots and outdoor gathering areas shall use the following fixtures.

5.5.7.1. Walkway Lighting:

- 5.5.7.1.1. Luminaire: Cooper LDRV T3-B03-E-LCF-BK, LED, Black
- 5.5.7.1.2. Pole: Stresscrete E190-APH-G-E11, hex ring, black

5.5.7.2. Parking Lot Lighting:

- 5.5.7.2.1. Luminaire: Cooper LDRL-T3-B06-E-BK-LCF (Cobra Head), LED, Black
- 5.5.7.2.2. Pole: Stresscrete E340-APH-G-E11 with KA186-A-H-1-TXT-BLK arms

5.5.7.3. Street Lighting:

- 5.5.7.3.1. Luminaire: Cooper LDRL-T3-B06-E-BK-LCF (Cobra Head), LED, Black
- 5.5.7.3.2. Pole: Stresscrete E340-APH-G-E11 with KA186-A-H-1-TXT-BLK arms

5.6. Exterior Lighting Controls:

- 5.6.1. Exterior lighting not attached to the building shall be controlled by Utilities & Energy Management via lighting contactor. Exterior lighting shall not be controlled by the building's energy management system.
 - 5.6.1.1. Contactor shall be 208 volt, 3 phase, 4 wire, 60 amp (minimum), with hand-off-auto.
 - 5.6.1.2. Control voltage shall be 120 volt.
 - 5.6.1.3. Exterior lighting shall be metered separately from building power.
 - 5.6.1.4. Contactor shall be mounted downstream of site lighting electrical meter.

6. COMMUNICATIONS

6.1. General:

- 6.1.1. Use removable fire-stopping pillows for cable tray penetrations.
- 6.1.2. Telephone and miscellaneous signals shall be in conduit. Conduit systems may consist of rigid galvanized steel, IMC, EMT, or a combination of these as required by applicable codes and standards.
- 6.1.3. Utility Network: Refer to *UTILITY DISTRIBUTION UTILITY NETWORK CABINET DETAIL* in Appendices for utility network cabinet and pathways. UI Meters and Controls will provide, pull, and terminate all utility network cable.

6.2. Telecommunication Pathways:

- 6.2.1. Refer to *TELECOMMUNICATION CABLE OUTLET DETAIL* in Appendices.
- 6.2.2. Sections of conduit shall be no longer than 100 feet and shall not have more than two (2) bends between pull points or pull boxes with individual bends not to exceed 90.
 - 6.2.2.1. Inside bending radius shall be at least six (6) times the inside conduit diameter for conduit 2 inches or less and at least ten (10) times the conduit diameter for conduit greater than 2 inches.
 - 6.2.2.2. Pull boxes shall be placed directly after a bend or sized accordingly if the pull box is located at the bend.
- 6.2.3. Size conduits, raceway and pathways with the assumption that each outlet box receives two (2) cables, although only one (1) cable may be installed during a project. Conduit and raceway for wall phones shall be sized to receive one (1) cable.
- 6.2.4. Secondary pathways shall be minimum 1 inch conduit from work area outlet box to within 24 inches of nearest cable tray of work area outlet.
 - 6.2.4.1. Secondary alternative solutions shall be coordinated with Owner prior to design or installation.
- 6.2.5. Rough-in box at secondary pathway destination shall be Randle Industries Inc., 5 Square Telecommunications box, part number T-55017.
 - 6.2.5.1. For rooftop destinations: rough-in box at secondary pathway destinations shall be 6 x 6 x 4 NEMA 3 box, mounted and secured on unistrut.
- 6.2.6. Fire Rated Pathways shall be:
 - 6.2.6.1. Specified Technologies Inc., EZ-Path Fire Rated Pathways or approved equal.
 - 6.2.6.2. Coordinate with Owner size of EZ-Path.
 - 6.2.6.3. Utilize five (5) ganged pathway bracket in all telecommunications rooms. Part number EZP544W. Provide five (5) EXD44S Pathways at each bracket

6.2.6.4. Utilized for all interior Telecommunication Room primary cable pathways.

6.2.6.5. Utilized for all interior fire-rated communication primary cable pathways.

PATHWAY TRADE SIZE	CAT 6 40% FILL CABLES DESIGN	CAT 6A 40% FILL CABLES DESIGN
2 inch caddy clip	35	24
1 inch EMT conduit	8	5
1 1/4 inch EMT conduit	14	8
2 inch EMT conduit	32	19
2 1/2 inch EMT conduit	55	33
3 inch EMT conduit	84	50
3 1/2 inch EMT conduit	110	65
4 inch EMT conduit	140	83
EZD44	126	156
2400 Wiremold	8	5

MESH TRAY SPECS

SHAPED PART NUMBER	WIDTH	WT. per pc.	FILL *	LOAD lbs./ft	SPLICE quantity
WBT2X4S	4"	7 lbs.	108	45	2
WBT2X6S	6"	9 lbs.	163	50	4
WBT4X4S	4"	12 lbs.	205	49	4
WBT4X6S	6"	13 lbs.	310	49	5
WBT4X8S	8"	15 lbs.	416	78	6
WBT4X12S	12"	23 lbs.	621	78	6
WBT4X16S	16"	27 lbs.	837	108	7
WBT4X18S	18"	29 lbs.	942	116	7

*Fill is a theoretical calculation based on a .22" diameter cable

6.3. Grounding and Bonding:

6.3.1. Telecommunication Main Ground Busbar (TMGB):

6.3.1.1. Chatsworth Products Inc. ¼ inch by 4 inch by 20 inch, part number 40153-020

6.3.2. Telecommunication Grounding Busbar (TGB):

6.3.2.1. Chatsworth Product Inc., ¼ inch by 4 inch by 12 inch, part number 40153-012

6.3.3. Telecommunication Horizontal Rack Busbar:

6.3.3.1. Chatsworth Product Inc., 3/16 inch by ¾ inch, part number 10610-019

6.3.4. Bonding Conductors shall be insulated copper.

6.3.5. Flat, braided, aluminum ground straps shall be utilized for bonding sections of aluminum cable tray.

6.3.6. Bonding Conductor size shall be determined by NEC.

6.3.7. Interconnecting Bonding Conductor (IC):

6.3.7.1. Shall be insulated, copper, number 3/0 AWG referred to in TIA/EIA-607 at the Bonding Conductor for Telecommunications.

6.3.8. Telecommunication Bonding Backbone (TBB):

6.3.8.1. Shall be insulated, copper, number 3/0 AWG.

6.3.9. Equipment Bonding Conductor (EK):

6.3.9.1. Shall be green colored insulation, copper, number 6 AWG.

6.3.10. Bonding Conductor Terminations:

6.3.10.1. Two-hole compression lugs shall be Thomas and Betts, two-hole lugs long barrel-type, catalogue number 54816BE, high-conductivity wrought copper, electro tin plated, or approved equal, installed at TMGB or TGB location.

6.3.10.2. One-hole compression lugs shall be Thomas and Betts, long-barrel one-hole lugs, catalogue number 54905BE, high-conductivity wrought copper, electro tin plated, or approved equal, installed at out ends from TMGB or TGB.

6.4. Data and Voice Horizontal Infrastructure:

6.4.1. Horizontal Station Cable:

6.4.1.1. Base cabling design shall be Commscope Systimax GigaSPEED CAT 6, part number 700208101 /2071E WH, 23 AWG twisted 4-pair solid copper, FEP polyolefin flame retardant insulated, unshielded, ANSI/ITIA-56-C.2 Category 6. Cabling shall be white.

6.4.1.2. Alternate cabling, CAT 5E or 6A, shall be as directed by the Owner.

- 6.4.1.3. Install all cables through primary and secondary pathways. Installation methods and techniques shall satisfy current ANSI/EIA/TIA-569, Commercial Building Standard for Telecommunications Pathways and Spaces.
- 6.4.1.4. Support all cable such that they will not be damaged by normal building use.
- 6.4.1.5. Communications may share support superstructures with multiple utilities. Design superstructures to support the entire connected load.
- 6.4.1.6. Provide metallic conduit sleeves and nylon bushings for all floor and wall penetrations.
- 6.4.1.7. Horizontal cabling shall be continuous from the work area communication outlet to the distribution frame.
- 6.4.1.8. Cables shall not be installed or routed in any manner that violates the manufacturer's specifications.
- 6.4.1.9. Cables shall be terminated in accordance with current ANSI/TIA/EIA-568, Commercial Building Telecommunications Cabling Standard, observing the industry standards for terminating color-coded cables for premises and campus environments.
- 6.4.2. Patch Panels:
 - 6.4.2.1. Patch panels shall be CommScope Systimax 360 EVOLVE 24 PORT PATFCH PANEL 360-E-MOD-1U-24 360 EVOLVE 24-PORT FLAT PANEL, Systimax part number 760187187.
- 6.4.3. Information Outlets:
 - 6.4.3.1. Outlets shall be CommScope Systimax GigaSpeed XL MGS400-262 Cat6 1-Port MOD JACK 110 8W8P UTP T568A/B CAT6, Systimax part number 700206725 WHITE.
- 6.4.4. Faceplates:
 - 6.4.4.1. Two-port faceplates shall be CommScope Systimax 2-PORT FLUSH MT UNLOADED SGL GANG M-SERIES part number 10833063 WHITE CS-COMMSCO M12LE-262.
 - 6.4.4.2. Four-port shall be CommScope Systimax 4-PORT FLUSH MT UNLOADED SGL GANG M-SERIES, Systimax part number 108333162 WHITE CS-COMMSCO M14LE-262.
 - 6.4.4.3. Wall phone faceplates shall be CommScope Systimax SINGLE PORT WALL PHONE PLATE 1-PORT FLUSH MT UNLOADED SGL GANG M-SERIES W/MTG LUGS, Systimax part number 760100891 STAINLESS>
- 6.4.5. Patch Cables:
 - 6.4.5.1. Patch cables shall be CommScope Systimax GigaSpeed XL Cat6 Patch Cable CBL ASSY MOD 23-4PR CAT6 T568B Blue, Systimax part number CPC3312-0ZFxxx
 - 6.4.5.1.1. USER END: Patch cables shall be CommScope Systimax GigaSpeed XL Cat6 patch cable CBL ASSY MOD 23-4PR 10FT CAT6 T568B BLUE, Systimax part number CP3312-0ZF010 (10FT).

- 6.4.5.1.2. ITS SPACES: Patch cables shall be CommScope Systimax GigaSpeed XL Cat6 patch cable CBL ASSY MOD 23-4PR 14FT CAT6 T568B BLUE, Systimax part number CPC3312-0ZF014 (14FT).

6.5. Fiber Optic and Copper Backbone and Riser Cable:

6.5.1. Premise Fiber Optic Cable Risers:

6.5.1.1. Fiber Risers:

- 6.5.1.1.1. Optical fiber riser cable must be Corning FREEDM Loose Tube Gel-Free Plenum Cable. Strand count will be specified per project.

- 6.5.1.1.1.1. Single mode application use OS2 SM

- 6.5.1.1.1.2. All fiber shall be installed as a home-run. No mid-span splices are allowed.

- 6.5.1.1.1.3. Provide a service loop of 10 feet (minimum) at both ends of the cable.

6.5.1.2. Accepted Single Mode OS2 Connector Installation:

- 6.5.1.2.1. Corning CCH Pigtail Cassette CCH-CS12-59-POORE.

- 6.5.1.2.2. Single-mode fiber shall be fusion spliced to the pre-assembled pigtail within the CCH-CS12-59-POORE cassette loaded with SC connectors.

6.5.1.3. Accepted Single Mode Connectors for Non-Building Plenum Fibers:

- 6.5.1.3.1. Corning UniCam SC High-Performance Connectors:

6.5.1.4. Accepted Fiber Housings:

- 6.5.1.4.1. Corning Closet Connector Housing CCH:

- 6.5.1.4.1.1. The CCH is a one (1) piece enclosure.

- 6.5.1.4.2. Clearfield xPAK :

- 6.5.1.4.2.1. The xPAK Part Number 6PAK-SC fiber demarcation housing for fire panels and other similar applications.

- 6.5.1.4.3. Accepted Closet Connector Housing CCH Panels:

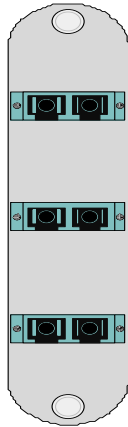
- 6.5.1.4.3.1. CCH-CP12-59

6.5.1.5. Closet Connector Housing Panel Polarity Orientation

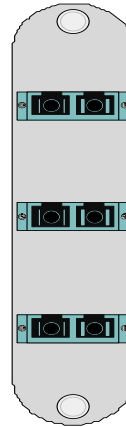
- 6.5.1.5.1. Specific orientation of the adapters is necessary to maintain the correct polarity of the transmitting and receiving signals throughout the campus.

- 6.5.1.5.2. Polarity is achieved by physical key slot orientation of adapters in the fiber distribution enclosures.

Panel with A/B
Orientation



Panel with B/A
Orientation



6.6. Outdoor Plant Fiber Optic Cable:

- 6.6.1. Single-mode fiber shall have a core diameter of 8.3 microns and cladding diameter of 125 microns. Maximum attenuation shall be:

6.6.1.1. 0.44 dB/Km @ 1310 nm

6.6.1.2. 0.35 dB/Km @ 1550 nm

6.6.1.3. Zero-dispersion wave length of 1310 nm + or - 10 nm

6.6.2. Loose-Tube Fiber Cable:

6.6.2.1. Provide Corning ALTOS Loose-tube, gel-free cable, 24 F, Single mode (OS2), part number 024EU4-T4101D20.

6.6.2.2. Suitable for underground (in conduit) and aerial installation.

6.6.2.3. Cable sheath rated and marked OFNR for riser applications per NEC.

6.6.2.4. Distances shall be marked on the outside in feet/meters in such a way that normal installation does not rub them off or make them unreadable.

6.6.2.5. Six (6) or twelve (12) fibers per buffer tube.

6.6.2.6. Use standard color codes on sub-buffers per current EIA/TIA 598.

6.7. Copper:

- 6.7.1. Copper riser cable shall be specified per project by Owner.

- 6.7.2. Type CMP, 24 AWG twisted, solid annealed copper conductors insulated with PVC skin over expanded polyethylene, having an overlapped corrugated aluminum shield, fire-resistant FR-PVC plastic jacket, and ANSI/TIA/EIA 568-A, and Category-3 performance rated.
- 6.7.3. Accepted copper splice connecting hardware shall be 3M or AT&T.
- 6.7.4. Splice connecting hardware shall be 25 pair modular connectors specifically designed for straight splicing applications.
- 6.7.5. Splice modules shall be designed to accommodate splicing of 22 - 26 AWG solid copper conductors having Polyvinyl Chloride (PVC) or Polyethylene (PE) insulation
- 6.7.6. Splice connectors shall be manufactured with solder-plated contacts and be unfilled (dry) in controlled environment applications and filled (encapsulated) in moisture or corrosion prone environments.
- 6.7.7. Accepted copper splice closures shall be 3M. Coordinate size with Owner.
- 6.8. CATV Distribution and Horizontal Infrastructure:
 - 6.8.1. Horizontal drop cable shall be Plenum rated 75Ω Series 6. Horizontal drop lengths shall not exceed 295 feet over Series 6 (refer to note below under Cable Type).
 - 6.8.2. Horizontal cabling between Telecommunications Rooms and outlet/drop locations shall be made as individual home runs. Intermediate splices or couplings are not allowed.
 - 6.8.3. Group individual drops by cable length/loss and connected to a multi-port tap with appropriate dB loss level within that outlet's associated TC.
 - 6.8.4. Label all horizontal drops with outlet location and run length.
 - 6.8.5. Distribution feeds less than 500 feet shall be plenum rated, 75Ω Series 11.
 - 6.8.6. 75 ohm port terminators will be installed on all unused tap ports at both remote and head-end. Torque all terminators to 20 pounds/inch.
 - 6.8.7. F-Connectors shall be hand tightened and then torqued to 20 pounds/inch.
 - 6.8.8. The Constructor shall ensure that the CATV System meets or exceeds the following system design criteria at any and all CATV System drops:
 - 6.8.8.1. Minimal Signal level range at required.
 - 6.8.8.2. Analog marker channels 2, 78 and 120 will be 6dBmV+/- 4 dBmV.
 - 6.8.8.3. Carrier to noise ratio shall be 43 dB (minimum).
 - 6.8.8.4. Humidity shall be 1 percent.
 - 6.8.9. Cable Type:
 - 6.8.9.1. Horizontal Plenum ≤295 feet Series 6 – Commscope 2276V WHRL Belden – Snap-n-Seal SNS6PLA.

6.8.9.2. 11AS.

6.8.9.3. Closet Risers \leq 500 feet Plenum – Series 11 Commscope 2285V WHRL Plenum compression Connector – Corning / Gilbert GAF-UR-11PL.

6.8.9.4. Risers between closets exceeding 500 feet to be semi-flex .500 (Times Fiber part number T10500J/GRS500AFMDU03 F/M) or fiber optic cable. Coordinate with Owner.

6.9. Audio Visual (A/V) Systems:

6.9.1. General

6.9.1.1. LST-A/V group shall approve all A/V designs, including equipment locations.

6.9.1.2. Equipment shall be installed with the latest firmware and software.

6.9.1.3. All signals shall be scaled to the native resolution of the display.

6.9.1.4. Constructor shall use industry Audio Visual Best Practices as outlined by InfoComm / AVIXA.

6.9.1.5. Equipment mounting enclosure / closet shall be sufficiently ventilated to assure that equipment operates at or below manufacturer recommendations.

6.9.1.6. Provide system training for Operations staff and Departmental users.

6.9.2. Submittals and Shop Drawings:

6.9.2.1. Submittals shall include equipment specifications, floor plan locations, rack elevations, and equipment riser diagram showing equipment terminations.

6.9.2.2. Submit as-built drawings, including keypad buttons and GUI layouts for controllers, equipment locations, and cable routing to the LST-A/V group prior to Final Completion. Send electronically to lst-av@uiowa.edu.

6.9.2.3. A/V distribution and control system configuration files, including source code and GUIs shall be submitted to the Owner prior to Final Completion.

6.9.2.3.1. Submit electronic copy, full access (no passwords) to LST-A/V Group at lst-av@uiowa.edu.

6.9.2.4. Provide EASE (Enhanced Acoustics Simulator for Engineers), or equivalent acoustic model for auditoriums, screening rooms, or special use rooms.

6.9.2.4.1. Prior to final design, submit electronic copy to LST-A/V Group at lst-av@uiowa.edu.

6.9.3. Pathways and Cables:

6.9.3.1. Pathways shall be specific for A/V, no sharing with other cables (e.g., network cables).

6.9.3.2. Cables shall be either in 1-inch conduit, unless otherwise noted, or J-hooks.

- 6.9.3.3. Cables shall meet or exceed the manufacturer's requirements of the connected equipment.
- 6.9.3.4. Cable splicing is not acceptable. Cabling shall be homerun.
- 6.9.3.5. Cable shall be properly rated for use case (riser, plenum, or wet location installation).
- 6.9.3.6. Cabling shall be labeled with function, specific origination and termination point at both ends of cable. Numbering is not acceptable.
- 6.9.3.7. Hook and loop (Velcro) fasteners shall be used for cable management. Tie wraps or zip ties are not acceptable.
- 6.9.4. Control Equipment:
 - 6.9.4.1. Primary Touch Panels: Extron TLP Pro Series 10 inches or 12 inches (use Extron PoE injector)
 - 6.9.4.2. Primary Keypad Controllers: Extron MediaLink Plus series or eBUS series. Use Extron PoE injector.
 - 6.9.4.3. Processors: Extron IPCP Pro 360 or 5. Processor shall be integrated into keypad or video switch chassis.
- 6.9.5. Network Switches
 - 6.9.5.1. Unmanaged Luxul A/V series only.
- 6.9.6. Switching and Distribution:
 - 6.9.6.1. Matrix Switchers: Extron DTP CrossPoint 4K series with integrated IPCP control processor and 100 watt 70 volt audio amplifier, Extron XTP II.
 - 6.9.6.2. Presentation Switchers: Extron IN1608xi series integrated DTP/HDBaseT transmitter and receiver with integrated IPCP control processor, 100 watt 70 volt amplifier.
 - 6.9.6.3. A/V over IP solutions shall not be allowed.
 - 6.9.6.4. Media Distribution: Extron DTP and XTP Transmitters and Receivers
 - 6.9.6.5. Switching and distribution shall all be 4K, or better, from end-to-end.
- 6.9.7. Audio Equipment:
 - 6.9.7.1. Amplifiers: Extron digital amplifiers shall be 70 volt systems designed with a minimum 20% headroom.
 - 6.9.7.2. Speakers: JBL Control Contractor, Extron
 - 6.9.7.3. DSP: Biamp Tesira / TesiraForte / Devio, Extron
 - 6.9.7.4. Ceiling Microphones: Audix M3, M55, Biamp (correct polar pattern for application)

- 6.9.7.5. Wireless Microphones: Audio Technica ATW-3000 series band DE2.
- 6.9.7.6. Desktop Microphones: Audio Technica, Shure
- 6.9.7.7. Speakerphone: Konftel 55W, Jabra, Polycom, Logitech, HuddlePod Air, Plantronics
- 6.9.7.8. Rooms with voice uplift require an Extron AAP 301 plate with an XLR in and an XLR out to allow for assisted listening device and a microphone / mixer input.
- 6.9.8. Video (Visual) Equipment:
 - 6.9.8.1. Projectors: Shall be laser models, Sony, Panasonic, Epson
 - 6.9.8.2. Displays: Shall be commercial grade, Samsung, Sharp, Sony, Panasonic, LG, NEC
 - 6.9.8.3. Cameras (PTZ): Lumens, Sony, Vaddio, PTZ Optics, AVer, Logitech, Panasonic
 - 6.9.8.4. Cameras (USB): Lumens, Sony, Vaddio, PTZ Optics, AVer, Logitech, Panasonic
 - 6.9.8.5. Screens: Shall be recessed with low voltage wall switch for backup control, Da-Lite, Draper
 - 6.9.8.6. Blu-ray Players: Sony, LG, Oppo
 - 6.9.8.7. Document Cameras: Wolfvision VZ-8Light4, AVer F50-8M
 - 6.9.8.8. Unified Camera / Speakerphone: Logitech Meetup, Polycom CX5100 / CX5500, Meeting Owl, AMX Acendo.
- 6.9.9. Equipment Racks and Mounts:
 - 6.9.9.1. Racks and Rack Accessories: Middle Atlantic. Security Screws shall be #HSK.
 - 6.9.9.2. Use pull out and rotating rack when rear access to rack is not easily available.
 - 6.9.9.3. Empty rack spaces shall be filled with 1U or 2U blank panels.
 - 6.9.9.4. Mounts: Chief, use RPMA series for projectors.
- 6.9.10. Miscellaneous Equipment:
 - 6.9.10.1. AV USB Bridge: Extron MediaPort 200
 - 6.9.10.2. Video Conferencing Codec: Zoom, Skype for Business
 - 6.9.10.3. Lecture Capture: Panopto
 - 6.9.10.4. Room Scheduler: Contact LST-A/V group at lst-av@uiowa.edu for the accepted, up-to-date models.
 - 6.9.10.5. BYOD: Mersive Solstice Pod Enterprise Edition with unlimited users for classrooms and four (4) users for conference rooms, include additional 4-year maintenance agreement

with the end-user (Owner) and the Manufacturer for operating system updates / compatibility.

7. ELECTRONIC SAFETY AND SECURITY

7.1. Electronic Access Control and Security (AMAG):

7.1.1. Electronic Access:

7.1.1.1. Submittals and Shop Drawings: Constructor submittals shall include product data, system block diagram(s), door details, controller schedule, door schedule, and camera schedule. Schedules shall reference room numbers, door numbers, and equipment numbers, as applicable.

7.1.1.2. The access control supplier and integrator shall be Security Equipment, Inc.

7.1.1.3. Vendor identification information is permitted only on access control system panels.

7.1.1.4. All component hardware shall be 24 volt.

7.1.1.5. Equipment and components shall be located to allow access for maintenance and inspection.

7.1.1.6. UL or WH fire-rated doors or frames shall not be modified as to void the label or fire-rating.

7.1.1.7. Unless otherwise noted, electrical components are to be furnished and installed by the Access Control Supplier.

7.1.1.8. AMAG System:

7.1.1.8.1. Access control and monitoring systems shall be networked with the existing AMAG Symmetry Enterprise for Central Station managed by Facilities Management.

7.1.1.8.2. Server(s), central station software, back-up systems, proximity cards, badging station, and printer shall be provided by the Owner.

7.1.1.9. AMAG Panel:

7.1.1.9.1. Panels shall AMAG M2150.

7.1.1.9.2. Provide M2150 100k memory module for nodes requiring more than 20,000 card holders.

7.1.1.9.3. Provide AMAG M2100 for systems containing biometric devices.

7.1.1.9.4. Access Control enclosure shall be Flex Power model FP0150/250-2C82D8E8A

7.1.1.10. Power Supplies:

7.1.1.10.1. Power supplies for electric latch retraction panic devices shall have battery backup, provided and installed by the Hardware Supplier.

- 7.1.1.10.2. Maintenance access to power supply shall not interfere with door operation.
- 7.1.1.10.3. Lock power, other than for electric latch retraction panic devices, shall be supplied by power supply internal to Access Control enclosure.
- 7.1.1.11. Emergency Locking Push-Button Switches:
 - 7.1.1.11.1. Safety Technology International, series 2000 and custom labeled 'PUSH TO LOCK DOOR.'
- 7.1.1.12. Door Position Switch and Latch Bolt Monitoring:
 - 7.1.1.12.1. Door position switches for wood doors shall be 3/8 inch diameter recessed, similar to GRI model 2020-12.
 - 7.1.1.12.2. Door position switches for steel doors shall be 1 inch diameter recessed, similar to GRI model number 184-12.
 - 7.1.1.12.3. Latch bolt monitor to be provided with door hardware.
 - 7.1.1.12.4. Door position switch monitoring and latch bolt monitoring shall be wired separately, such that the system shall indicate whether the door is held open or the latch is retracted. A general door alarm is not acceptable.
- 7.1.1.13. Card Readers:
 - 7.1.1.13.1. Card readers shall be HID RP40 proximity type wall-mount or HID RP15 micro-proximity frame-mount.
 - 7.1.1.13.1.1. Color shall be charcoal gray or black.
 - 7.1.1.13.1.2. Mounting height shall be 36 inches above finished floor to centerline.
 - 7.1.1.13.1.3. Wiegand Interface Modules shall be provided.
 - 7.1.1.13.2. LED on the proximity readers shall be wired such that the green LED lights up when a valid card is presented and the red LED lights up when an invalid card is presented.
- 7.1.1.14. Biometric Reader:
 - 7.1.1.14.1. Hand geometry readers shall be Schlage Recognition Systems HKCR Handkey with enrollment stations as necessary.
- 7.1.1.15. Request to Exit Motion Detectors:
 - 7.1.1.15.1. When integral hardware request to exit switches are not possible, motion detectors similar to Bosch DS160 series shall be utilized.
- 7.1.1.16. Stairwell Fire Reentry Card Reader:

- 7.1.1.16.1. Card reader shall simultaneously unlock required reentry exit stairwell doors and transmit an alarm to University Key and Access Services. Key and Access Services will remotely relock doors.
- 7.1.1.16.2. Install next to fire panel or in fire command room as directed by the Owner and Authority Having Jurisdiction.
- 7.1.1.16.3. Provide signage to indicate "Fire Department Emergency Access Only." Mount directly adjacent to card reader adjacent to fire panel.
- 7.1.1.16.4. Provide red/green LED at card reader to indicate door status. Red = Doors Secure. Green = Doors Unlocked.
- 7.1.1.16.5. Provide monitor relay in Electronic Access Control and Security system to provide door secure status.

7.1.1.17. Cabling and Pathways:

- 7.1.1.17.1. Card reader cabling shall be yellow jacket, plenum-rated, continuously labeled 'Access Control Cable,' similar to CSC model number 112115.
- 7.1.1.17.2. Biometric reader cabling shall include all of the following
 - 7.1.1.17.2.1. Yellow jacket, plenum-rated, continuously labeled 'Access Control Cable,' similar to CSC model number 112115.
 - 7.1.1.17.2.2. Yellow jacket, plenum-rated, continuously labeled 'Access Control Cable,' similar to Lake Cable P222EPST-04CO
 - 7.1.1.17.2.3. Yellow jacket, plenum-rated, continuously labeled 'Access Control Cable,' similar to Lake Cable P182CS-04CO
- 7.1.1.17.3. Monitored opening cabling shall be yellow jacket, plenum-rated, continuously labeled 'Access Control Cable,' similar to CSC model number 110200.
- 7.1.1.17.4. Pull strings shall be provided in all cabling pathways.
- 7.1.1.17.5. Cabling in occupied spaces shall be in conduit. Exposed conduit in occupied spaces shall be painted to match adjacent surfaces.
- 7.1.1.17.6. Conduit shall be minimum ¾ inch with pull boxes every 50 feet minimum.
- 7.1.1.17.7. Maximum conduit fill shall be 40 percent.
- 7.1.1.17.8. Communication cable shall be supported by ITS cable trays, when available.
 - 7.1.1.17.8.1. Design Professional shall have determined the impact on cable tray and conduit capacity during the Design Development stage of the project.
- 7.1.1.17.9. When cable trays are not available or have inadequate capacity, J-hooks (spaced at a maximum of 4 feet) or conduit shall be used.

7.1.1.17.10. ITS closets shall have access control when used as a cabling pass-thru.

7.1.1.17.11. Wire and cable from the node to all devices at each door shall be continuous, without splices.

7.1.1.18. Elevators:

7.1.1.18.1. Elevator nodes shall be located in the elevator equipment room.

7.1.1.19. System startup:

7.1.1.19.1. Constructor shall conduct a 100 percent device check-out prior to Owner's demonstration and training. Documentation to be submitted to Owner.

7.1.1.20. Record drawings shall be provided to the Owner prior to Owner's demonstration and training.

7.2. Video Surveillance Systems:

7.2.1. Refer to Section III for information.

7.3. Security Alarm/Intrusion Alarm Systems:

7.3.1. Refer to Section III for information.

7.4. Fire Alarm and Detection Systems:

7.4.1. General:

7.4.1.1. Finished back boxes shall be provided by equipment supplier for any surface-mounted pull stations or signaling devices.

7.4.1.2. All detection devices shall be placed in easily accessible locations. Smoke, heat, audio visual devices, etc., shall be mounted on solid surfaces.

7.4.1.3. Constructor shall assume responsibility and control of the building fire alarm system when the project affects 10 percent or more of the existing fire detection and notification devices.

7.4.1.4. The Constructor shall coordinate with Department of Public Safety if off-site reporting is required.

7.4.1.5. The Constructor shall follow the Fire Safety acceptance testing procedures noted in the Fire Alarm and Detection Specification.

7.4.1.6. The building shall be 100 percent tested with Fire Safety prior to project completion.

7.4.2. Fire Alarm Control Panels (FACP):

7.4.2.1. Coordinate FACP location with local authority having jurisdiction and Owner.

7.4.2.2. FACP shall be Simplex 4100ES intelligent analog system with voice.

- 7.4.2.2.1. No substitutions shall be allowed as other manufacturers do not work with the existing fire alarm network.
- 7.4.2.3. Fire alarm control panel cabinets shall be mounted at 6 feet 0 inches to the top of the cabinet with 6 inch spacing between cabinets.
- 7.4.2.4. Panel door locks shall be front mounted.
- 7.4.2.5. Fire alarm panel shall be an intelligent analog system with voice.
- 7.4.2.6. Top of FACP shall be 6 feet above finished floor and shall have minimum 2 feet clearance on each side.
- 7.4.2.7. When multiple FACP's are required, set panels 6 inches apart while maintaining 2 feet clearance on each side.
- 7.4.2.8. Provide Owner all hardware devices and software for off-line programming, complete with manuals and software files.
- 7.4.2.9. Provide locking breaker on 120 volt AC power source and label "Fire Alarm." Permanently paint breaker red.
- 7.4.2.10. Fire alarm control panel power shall be supplied dedicated circuit(s).
- 7.4.2.11. Single pole, 120/277V switches shall be installed within the fire alarm control panel to disconnect all AC and battery power.
- 7.4.2.12. A duplex receptacle on a circuit separate from the fire alarm panel shall be installed under the main fire alarm control panel.
- 7.4.2.13. Provide battery back-up capable of supplying a minimum of 24 hours of operation in normal conditions followed by no less than 15 minutes of alarm.
- 7.4.2.14. Coordinate location with Sprinkler System Fire Department Connection.
- 7.4.3. Releasing Panels:
 - 7.4.3.1. Releasing panel shall be Simplex 4100ES.
 - 7.4.3.2. Separate Simplex 4100ES releasing panel is required for releasing other than sprinkler systems, such as Novec 1230.
- 7.4.4. Initiation Devices:
 - 7.4.4.1. Pull Stations:
 - 7.4.4.1.1. Pull stations shall be addressable and ADA compliant, Simplex #4099-9006.
 - 7.4.4.2. Smoke Detectors:
 - 7.4.4.2.1. Smoke detectors shall not be located within 3 feet of an air vent.
 - 7.4.4.3. Duct Detectors:

7.4.4.3.1. Provide a labeled test switch with LED.

7.4.4.3.1.1. This test switch shall be installed for each duct smoke detector.

7.4.4.3.1.2. This switch shall be installed at a mounting height of 48 to 72 inches above finished floor.

7.4.5. Annunciation Devices:

7.4.5.1. General

7.4.3.1.1. Constructor shall not mount a separate visual device and separate speaker side-by-side.

7.4.5.2. Strobe Devices:

7.4.3.1.2. Strobes shall be no more than 100 feet apart, visible from any location in the room, and placement shall be coordinated with furniture and/or art locations.

7.4.5.3. Fire Department Connection Horn Strobe:

7.4.3.1.3. Provide Potter Sash 24 number 10000755 Sprinkler / Siren Strobe

7.4.3.1.4. Locate directly above the fire department sprinkler connection on the exterior of the building.

7.4.6. Other Devices:

7.4.6.1. Refer to Section III for information.

7.4.7. Raceways, Boxes, and Cables:

7.4.7.1. Conventional wiring shall be solid, THHN.

7.4.7.2. Insulate all grounding shields with 3M number 130C rubber tape.

7.4.7.3. Junction and pull boxes shall be a minimum size of 4 11/16 inches square by 2 1/8 inches deep.

7.4.7.4. Fire alarm and detection conduits shall be red.

7.4.7.5. Line voltage (120 volt AC) shall be run in separate conduit.

7.4.7.6. Spare conductors shall not be allowed in conduit or junction boxes.

7.4.7.7. Surface wireway is prohibited.

7.4.7.8. Box extensions shall not be permitted on new construction.

7.4.7.9. Splicing shall not be allowed in device mounting boxes.

7.4.7.10. Wiring size and color shall be per the Owner's specifications.

7.5. Area of Refuge Phone:

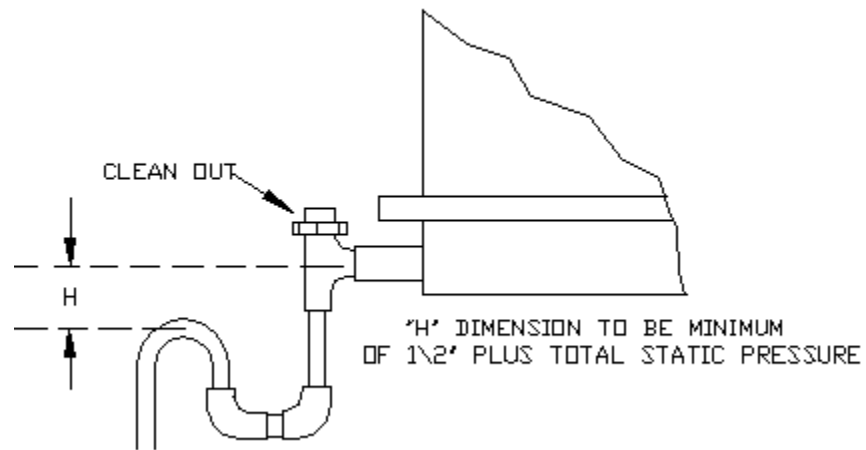
- 7.5.1. Provide cabling for area of refuge telephone as required by Code.
- 7.5.2. GIA-TRONICS Telephone shall be provided by Owner and installed by Constructor.
 - 7.5.2.1. Constructor to contact Owner for rough-in template.

7.6. Automatic External Defibrillator (AED) and Bleeding Control Kit Station:

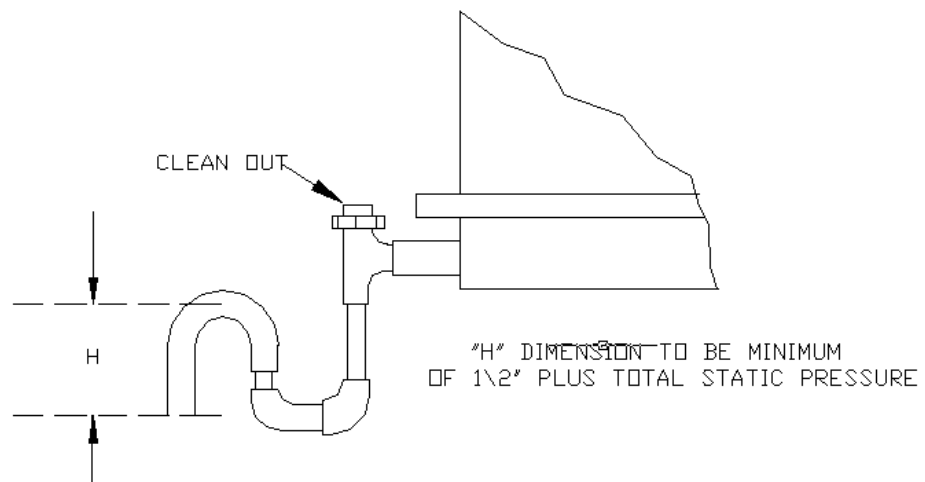
- 7.6.1. AED shall be Philips HeartStart Onsite model HS-1 with Onsite Semi-Rigid Standard Carry Case and Philips Fast Response Kit.
- 7.6.2. Bleeding Control Kit shall be North American Rescue Basic PABC 8-Pack – Nylon, item 80-0460.
- 7.6.3. Cabinet shall be sized to accompany both the AED and the Bleeding Control Kit.
 - 7.6.3.1. Cabinet shall provide a shelf to store the AED above the Bleeding Control Kit.
 - 7.6.3.2. Modern Metal Products 104SR3 semi-recessed, or Modern Metal Products 104R1, fully recessed.
 - 7.6.3.2.1. Cabinet shall be constructed with a full acrylic (glass) view-type door with a roller (cam) latch.
 - 7.6.3.2.2. Cabinet shall be equipped with a 200900 alarm system with strobe.
 - 7.6.3.3. JL Industries 2017F10SA semi-recessed, full acrylic view-style door with strobe alarm, or JL Industries 2015F10SA, fully recessed, full acrylic view-style door with strobe alarm.
 - 7.6.3.4. Cabinet shall be manufacturer finished - painted steel or brushed stainless steel.

END OF SECTION IV – OUTLINE SPECIFICATIONS AND DETAILS

AHU CONDENSATE DRAIN DRAW-THRU AND BLOW-THRU DETAIL



DRAIN PAN TRAP DETAIL FOR DRAW-THRU UNIT



DRAIN PAN TRAP DETAIL FOR BLOW-THRU UNIT

ARC FLASH LABELS

The arc flash labels (see Figure 1) supply all information required by NFPA 70E, 2015 edition as well as other useful information. Definitions of these terms are shown below.

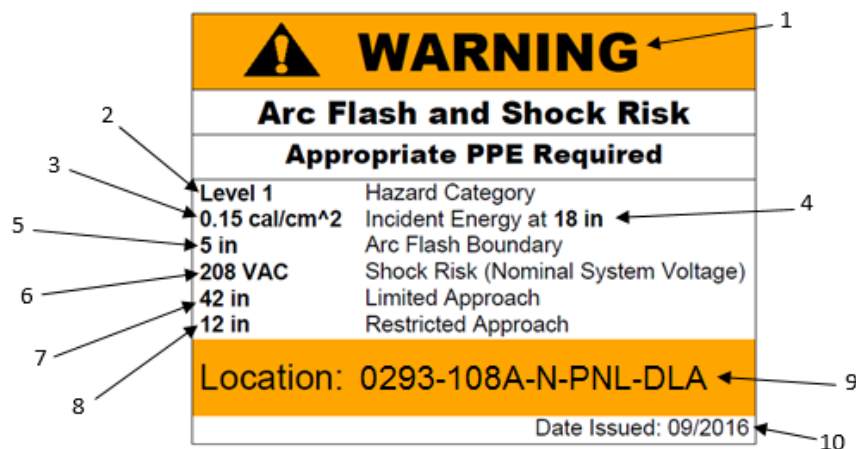


Figure 1: Standard Arc Flash Sticker

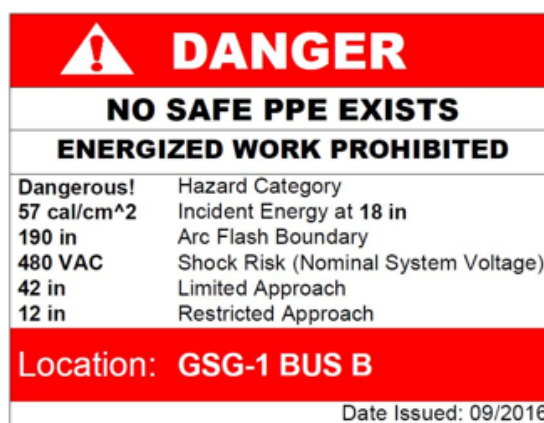


Figure 2: Danger Arc Flash Sticker

1. Label Signal Word: ANSI specifies that “WARNING” text should be used for “a hazardous situation that, if not avoided, could result in death or serious injury.” Labels with Incident Energy above 40 cal/cm² will be specified as DANGER and will be colored red. (Figure 2) These have no safe levels of Personal Protective Equipment (PPE).
2. Hazard Category: The arc flash hazard category provides a convenient number for determining required PPE. The category is given as 1, 2, 3, or 4 based on the minimum incident energy and working distance from NFPA 70E 130.7(C)(16), shown in Table 1 below. Site employees should consult their safety plan to determine PPE requirements for each category.

Hazard (PPE) Category	Maximum Incident Energy (cal/cm ²)
1	4
2	8
3	25
4	40

Table 1: Maximum incident energy for arc flash hazard categories under NFPA 70E, 2015 edition.

ARC FLASH LABELS - Continued

3. Incident Energy (cal/cm²): The amount of energy per unit of area of the arc flash blast at the defined working distance of the equipment. This is typically given in calories per centimeter squared, as per IEEE 1584 and NFPA 70E standards. When coupled with working distance, this defines the minimum arc rating of clothing that must be worn during maintenance. Site employees should consult their safety plan to determine PPE required for various energy levels. This may also be expressed in terms of hazard category. Minimum PPE ratings do not apply to distances closer than the working distance, and PPE required should be reevaluated if this is the case.
4. Working Distance (in.): Depends on voltage and equipment type, usually 18" and 24". This is the dimension between the possible arc point and the body of the worker positioned to perform the assigned task. Refer to Table 2 for common voltage and equipment types.

Equipment Class	Working Distance
≤ 600 V Motor Control Centers & Panelboards	18"
≤ 600 V Switchgear	24"
5-kV Switchgear	36"
15-kV Switchgear	36"

Table 2: Working distances defined for typical equipment.

5. Arc Flash Hazard Boundary (ft.-in.): Often abbreviated as "AFB," this is the distance at which a person could expect to experience second-degree burns in the event of an arc flash incident.
6. Voltage: List the voltage level of the device, in Volts. This will determine approach boundaries for shock risk assessment. NFPA 70E should be consulted for Shock Risk Boundaries.
7. Limited Approach Boundary (in.): Defines how close an unqualified person can get to an exposed conductor. Most systems will be fixed circuit, meaning the distance between the conductor and person is fixed and under control of the person. This encompasses virtually all conductors we would see in an industrial distribution setting. An example of a *movable* conductor is overhead transmission lines, where the distance may change expectantly. This is also outlined in NFPA 70E 130.4(D)(a).
8. Restricted Approach Boundary (in.): Defines how close a qualified person may approach an exposed conductor. No one may approach closer unless they adhere to certain protection guidelines. This is also outlined in NFPA 70E 130.4(D)(a).
9. Equipment Name: Displays the name of equipment using the University asset tagging conventions.
10. Issue Date: This is the date that the arc flash form was completed. NFPA 70E states that arc flash assessment must be performed on equipment every five years, or if any relevant changes are made to the power system.

BUILDING FIRE ALARM SYSTEM DETAILS

SIMPLEX 4100 U

ADLER JOURNALISM AND MASS COMMUNICATION BUILDING
ART BUILDING WEST
BECKWITH BOAT HOUSE
BOYD LAW BUILDING
CAMPUS MAINTENANCE FACILITY
CAMPUS RECREATION AND WELLNESS CENTER
CARVER-HAWKEYE ARENA
CHEMISTRY BUILDING
CHILLED WATER PLANT 2 (WEST)
111 CHURCH ST
700 S. CLINTON ST.
COLLEGE OF PUBLIC HEALTH BUILDING
COMMUNICATIONS CENTER
DENTAL SCIENCE BUILDING (WEST WING)
ECKSTEIN MEDICAL RESEARCH BUILDING
ENGINEERING RESEARCH FACILITY
ENGLISH PHILOSOPHY BUILDING
GILMORE HALL
HANCHER, VOXMAN, CLAPP
HARDIN LIBRARY FOR HEALTH SCIENCES
PAPPAJOHN BIOMEDICAL DISCOVERY BUILDING
HYDRAULICS WAVE BASIN FACILITY
IOWA MEMORIAL UNION
JEFFERSON BUILDING
JESSUP HALL
KINNICK STADIUM
LIBRARY (MAIN)
LINDQUIST CENTER SOUTH
LINDQUIST CENTER NORTH
MACLEAN HALL
MADISON STREET SERVICES BUILDING
MEDICAL LABORATORIES
MUSIC WEST - INTERIM BUILDING
NURSING BUILDING
INFORMATION TECHNOLOGY FACILITY
OAKDALE ENVIRONMENTAL MANAGEMENT FACILITY
OAKDALE POWER PLANT
MULTI TENANT FACILITY (POD A-B)

BUILDING FIRE ALARM SYSTEM DETAILS - Continued

SIMPLEX 4100 U

STATE HYGIENIC LABORATORY
STUIT HALL
PHILLIPS HALL
POMERANTZ CENTER
POWER PLANT
RECREATION BUILDING
RIVERSIDE RECITAL HALL (ST. THOMAS MOORE)
STUDIO-ARTS
SEASHORE HALL
SPENCE LABS
THEATRE BUILDING
UNIVERSITY CAPITOL CENTER
UNIVERSITY SERVICES BUILDING
VAN ALLEN HALL

SIMPEX ZONE PANELS

MEDICAL RESEARCH CENTER
NORTH CAMPUS PARKING AND CHILLED WATER FACILITY
OAKDALE STUDIO A
SUBSTATION U
SUBSTATION L

NOTIFIER AFP200'S

ART BUILDING
BECKER COMMUNICATION STUDIES BUILDING
CALVIN HALL
CARVER RIVER RESEARCH AND EDUCATION FACILITY
DEY HOUSE

HALSEY HALL
HOSPITAL PARKING RAMP 1
HOSPITAL PARKING RAMP 2
HOSPITAL PARKING RAMP 3 WILL BE CHANGED TO A SIMPLEX 06/12
MOSSMAN BUSINESS SERVICES BUILDING
MELROSE AVENUE PARKING FACILITY
NEWTON ROAD RAMP
OAKDALE WASTE STORAGE FACILITY (AT OAKDALE ENVIRONMENTAL
MANAGEMENT FACILITY)
INSTITUTE FOR RURAL AND ENVIRONMENTAL HEALTH
LAUNDRY

BUILDING FIRE ALARM SYSTEM DETAILS - Continued

NOTIFIER AFP200'S

MULTI TENANT FACILITY (POD C)
MULTI TENANT FACILITY (POD D)
MULTI TENANT FACILITY (POD E)
2556 CROSSPARK ROAD
2660 CROSSPARK ROAD
PHYSIOLOGY RESEARCH LABORATORY
TECHNOLOGY INNOVATION CENTER
109 RIVER STREET
SHAMBAUGH HOUSE
SOUTH QUAD
WATER PLANT

NOTIFIER ZONE PANELS

WOMEN' RESOURCE AND ACTION CENTER

NOTIFIER AFP400'S

OAKDALE NATIONAL ADVANCED DRIVING SIMULATOR

NOTIFIER NFS640

OLD CAPITOL

NOTIFIER AFP1010

GERDIN ATHLETIC LEARNING CENTER
BLANK HONORS CENTER
KARRO ATHLETIC HALL OF FAME
MACBRIDE HALL
MEDICAL RESEARCH FACILITY
HAWKEYE TENNIS AND RECREATION COMPLEX
TROWBRIDGE HALL
WENDELL JOHNSON SPEECH AND HEARING CENTER

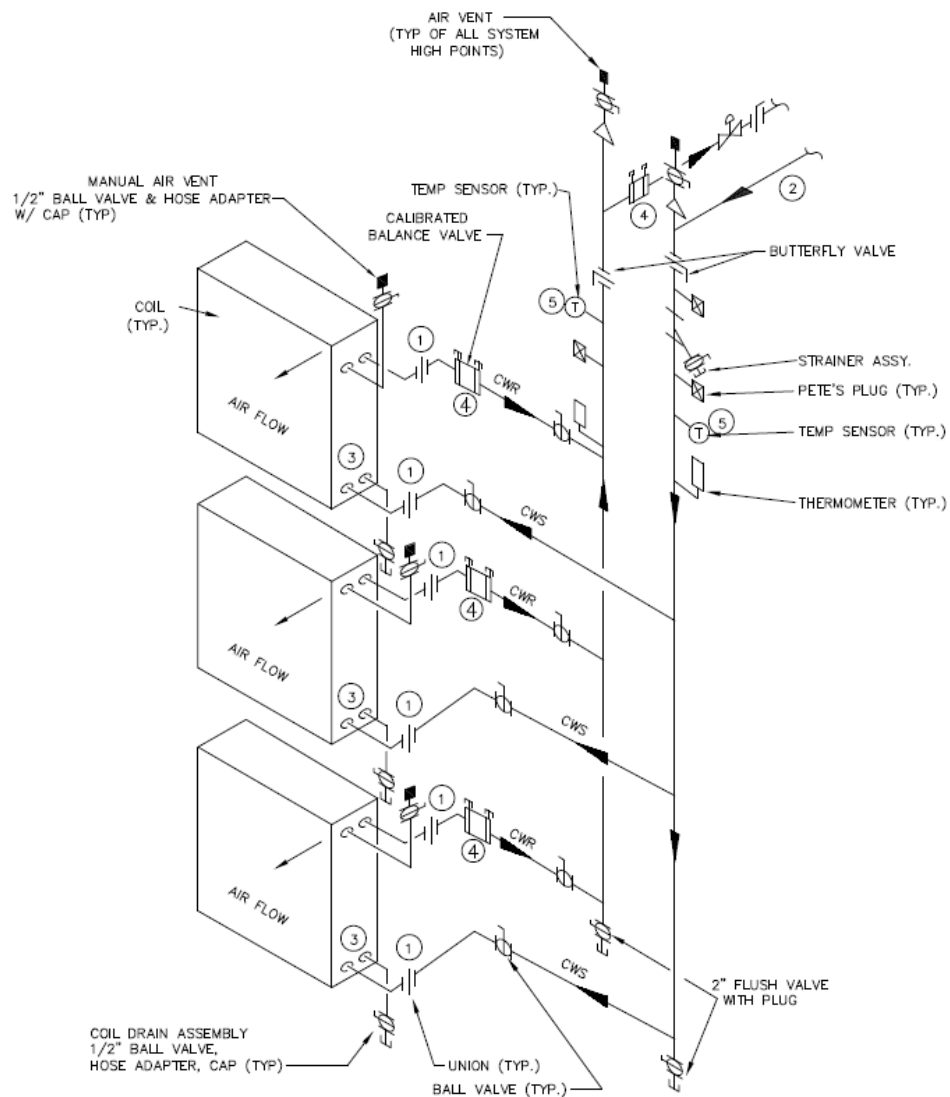
NOTIFIER AFP2020

SCIENCES LIBRARY
BIOLOGY BUILDING EAST
BIOLOGY BUILDING (OLD)
BOWEN SCIENCE BUILDING
CARVER BIOMEDICAL RESEARCH BUILDING
DENTAL SCIENCE BUILDING
FIELD HOUSE
HYDRAULICS LABORATORY
IOWA ADVANCED TECHNOLOGY LABORATORIES
MEDICAL EDUCATION BUILDING

BUILDING FIRE ALARM SYSTEM DETAILS - Continued

<u>NOTIFIER AFP2020</u>
NORTH HALL
PAPPAJOHN BUSINESS BUILDING
PHARMACY BUILDING
SCHAEFFER HALL
SEAMANS CENTER
WESTLAWN
<u>EDWARDS EST-3</u>
COLLEGE OF MEDICINE ADMINISTRATION BUILDING
ECKSTEIN MEDICAL RESEARCH BUILDING
MEDICAL EDUCATION RESEARCH FACILITY

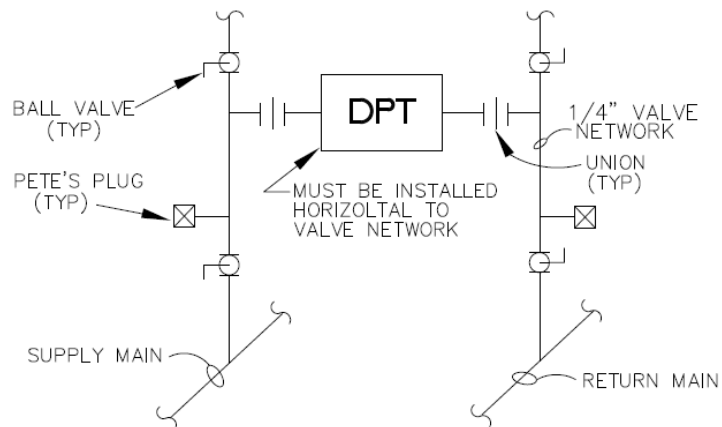
CHILLED WATER COIL PIPING DETAIL



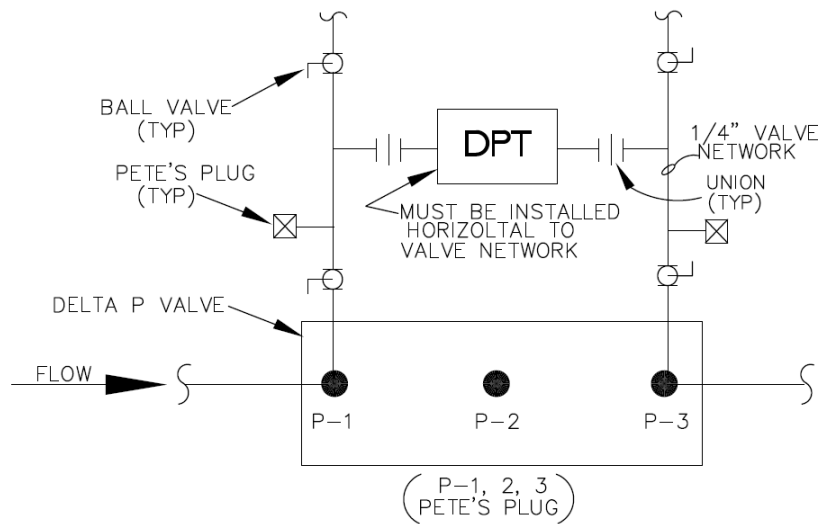
REFERENCE NOTE:

- ① INSTALL PIPING AND UNIONS TO ALLOW FOR COIL REMOVAL.
- ② BRANCH LINES TO BE OFF SIDE OR TOP OF SUPPLY/RETURN MAINS.
- ③ PIPE MULTIROW COILS FOR COUNTER FLOW THROUGH COIL.
- ④ CALIBRATED BALANCE VALVES SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS PROVIDING ACCURATE MEASUREMENT OF THE FLOW DESIGNED FOR THE COIL. (TYP) BALANCE VALVES SHALL BE ORIENTED SO THAT TEST PORTS ARE ON THE SIDE OR TOP OF THE DEVICE WITH A MINIMUM OF FOUR INCHES CLEARANCE TO ACCESS PORT ENDS. (TYP)
- ⑤ TEMPERATURE SENSOR TO REPORT TO THE BAS.

CHILLED WATER DIFFERENTIAL PRESSURE TRANSDUCER DETAILS

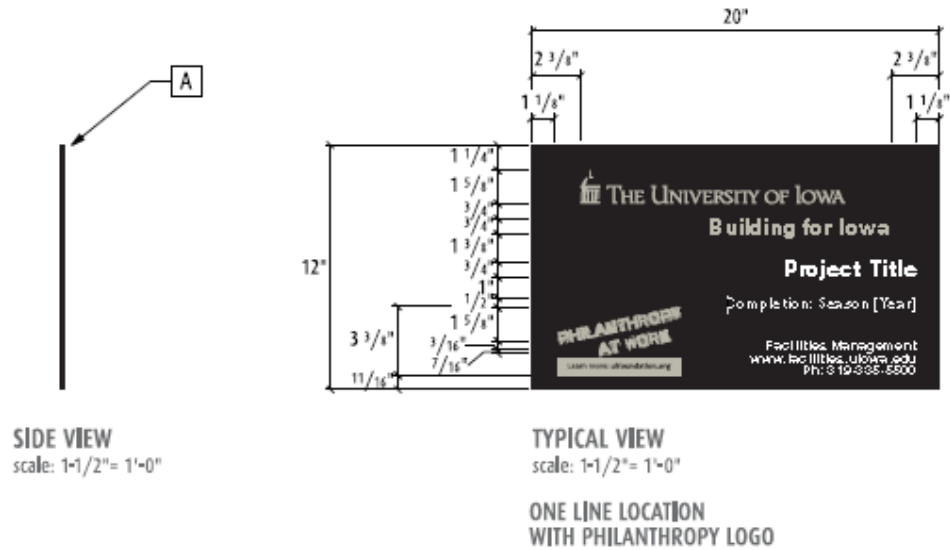


DETAIL — DIFFERENTIAL PRESSURE TRANSDUCER
(ACROSS SUPPLY AND RETURN MAINS)



DETAIL — DIFFERENTIAL PRESSURE TRANSDUCER
(ACROSS CHILLED WATER DELTA P VALVE)

CONSTRUCTION PROJECT SIGNAGE



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

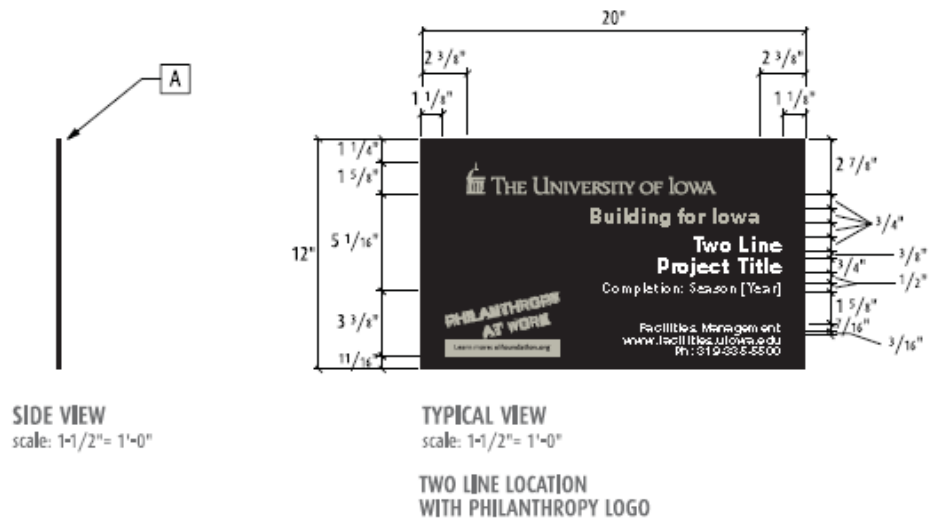
MOUNTING: TBD by Client

- A** 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:
- Background, SC-905 Black
 - UofI Logo, PMS 1235C
 - Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)
 - Philanthropy Logo, PMS 1235C

COLOR SCHEDULE

- SC-905 Black
- PMS 1235C (Yellow)
- White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE - Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

UofI Logo, PMS 1235C

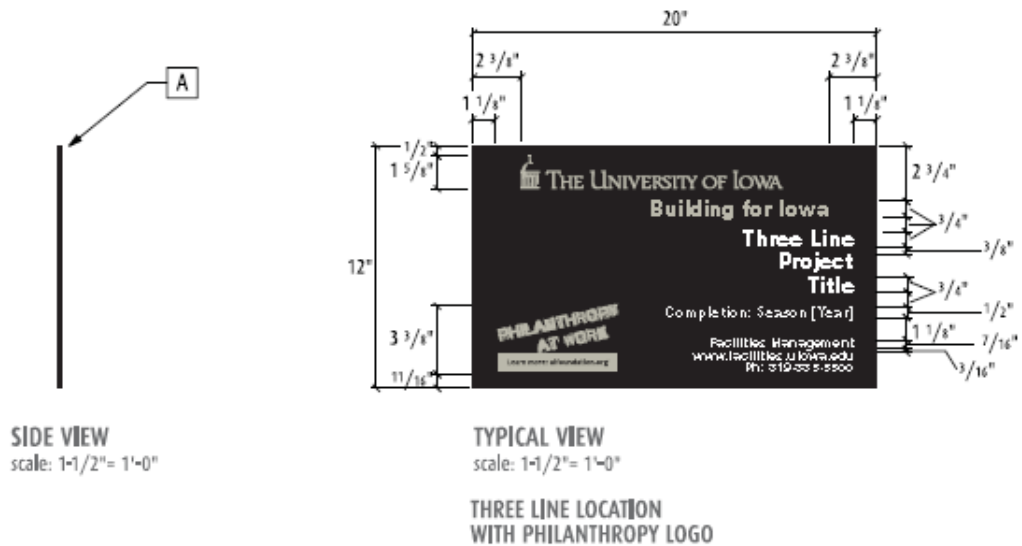
Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

Philanthropy Logo, PMS 1235C

COLOR SCHEDULE

■	SC-905 Black
■	PMS 1235C (Yellow)
■	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

UofI Logo, PMS 1235C

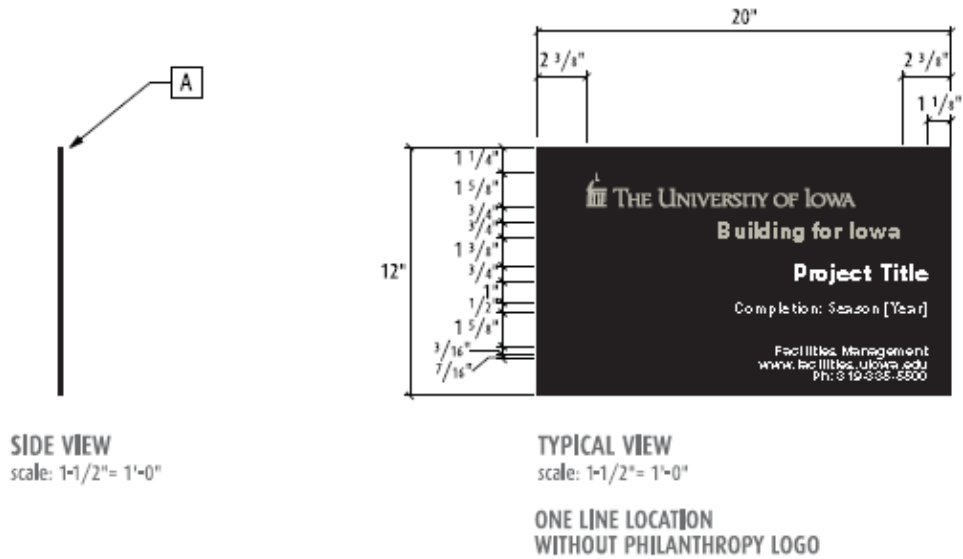
Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

Philanthropy Logo, PMS 1235C

COLOR SCHEDULE

	SC-905 Black
	PMS 1235C (Yellow)
	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

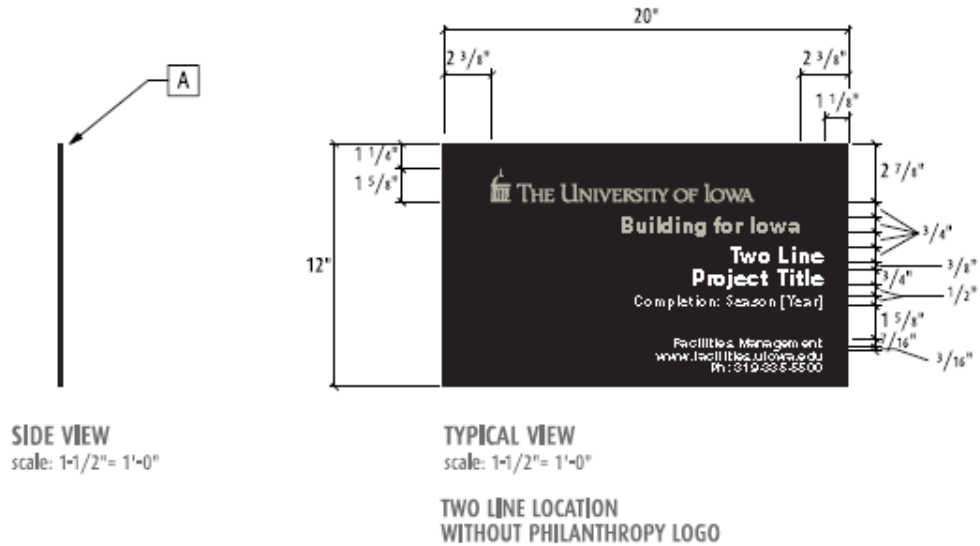
UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

COLOR SCHEDULE

	SC-905 Black
	PMS 1235C (Yellow)
	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

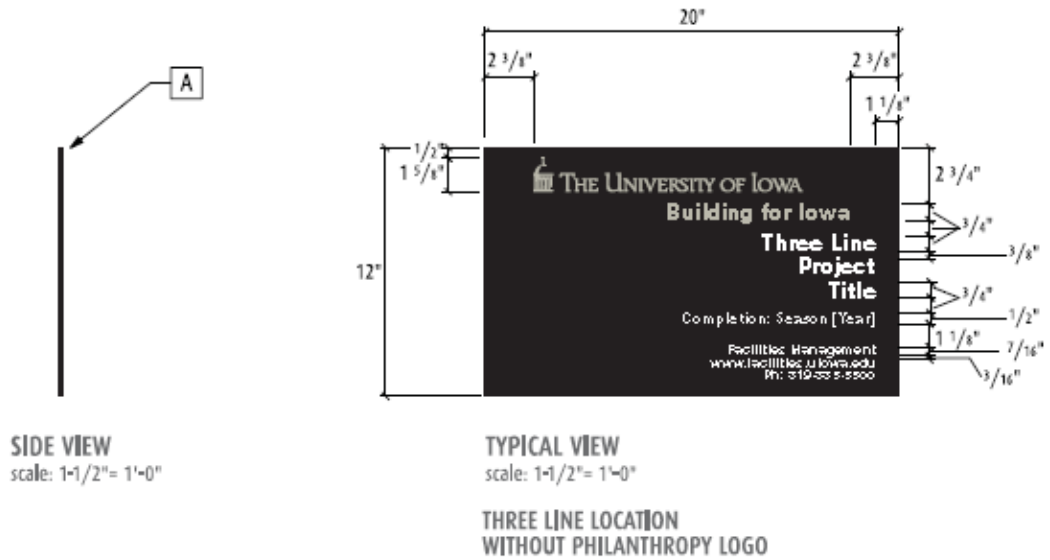
UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

COLOR SCHEDULE

	SC-905 Black
	PMS 1235C (Yellow)
	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 12" x 20"

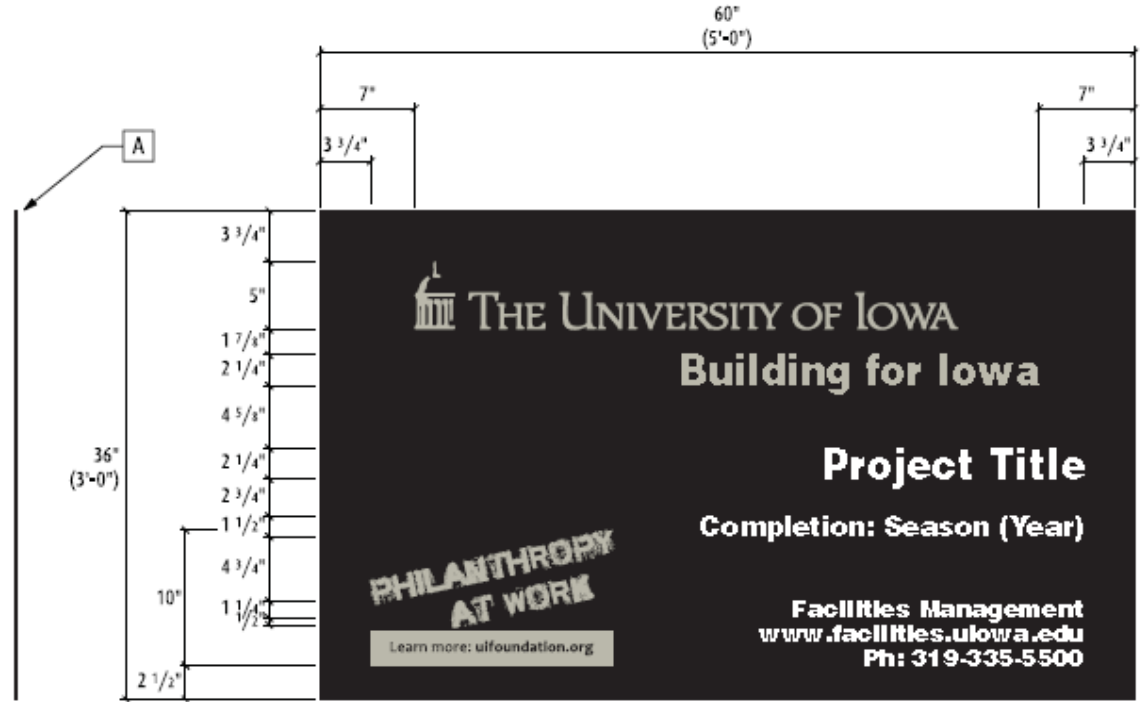
MOUNTING: TBD by Client

- A** 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:
- Background, SC-905 Black
 - UofI Logo, PMS 1235C
 - Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

COLOR SCHEDULE

- SC-905 Black
- PMS 1235C (Yellow)
- White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



SIDE VIEW
scale: 1"= 1'-0"

TYPICAL VIEW
scale: 1"= 1'-0"

**ONE LINE LOCATION
WITH PHILANTHROPY LOGO**

PRODUCT CODE: ASI Dibond/Digital Print Series

OVERALL SIZE: 36" x 60"

MOUNTING: TBD by Client

A 1/8" Black Alu-Panel

UofI Logo, 3M Sunflower Vinyl

Helvetica LT Std Black, Inc., 3M Sunflower Vinyl

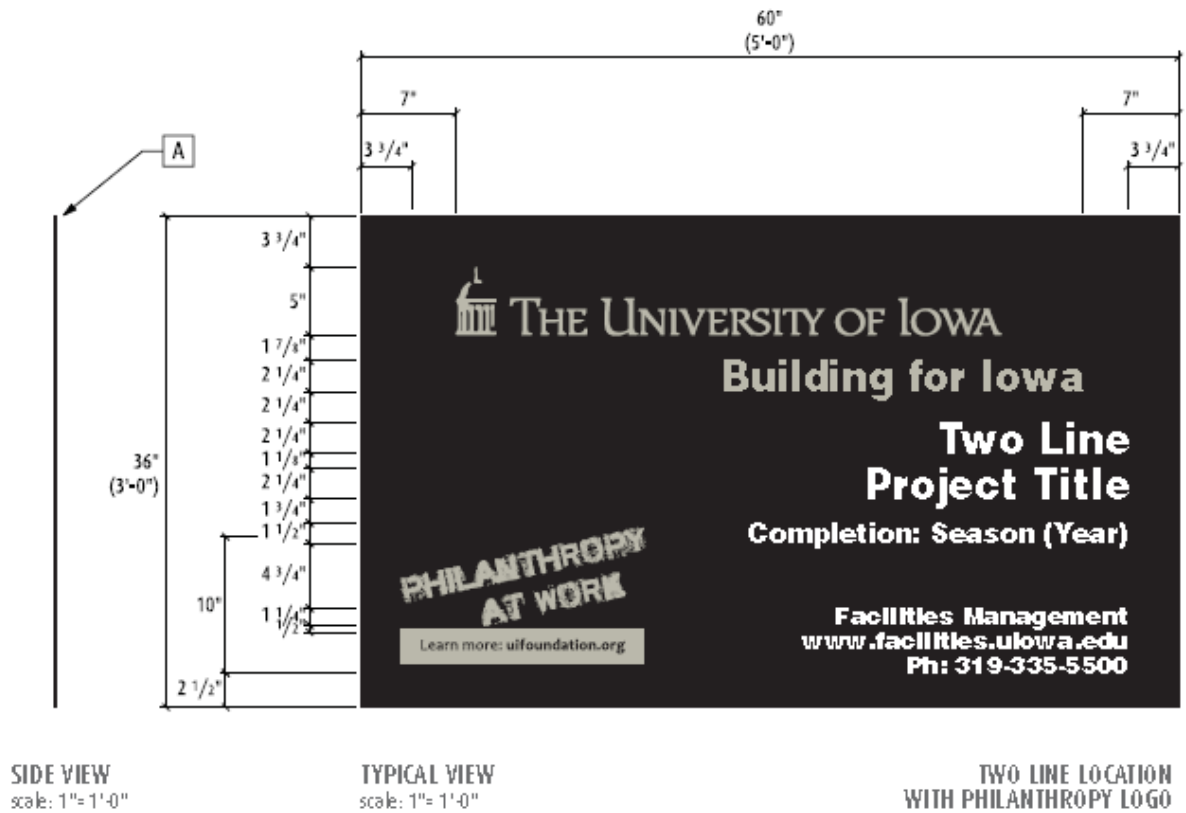
Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

Philanthropy Logo, Print on Panel PMS 1235C, 1st Surface

COLOR SCHEDULE

Black (Alu-Panel)
3M Sunflower (Vinyl)
White (Vinyl)
PMS 1235C (Yellow)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI Dibond/Digital Print Series

OVERALL SIZE: 36" x 60"

MOUNTING: TBD by Client

A 1/8" Black Alu-Panel

UofI Logo, 3M Sunflower Vinyl

Helvetica LT Std Black, Inc., 3M Sunflower Vinyl

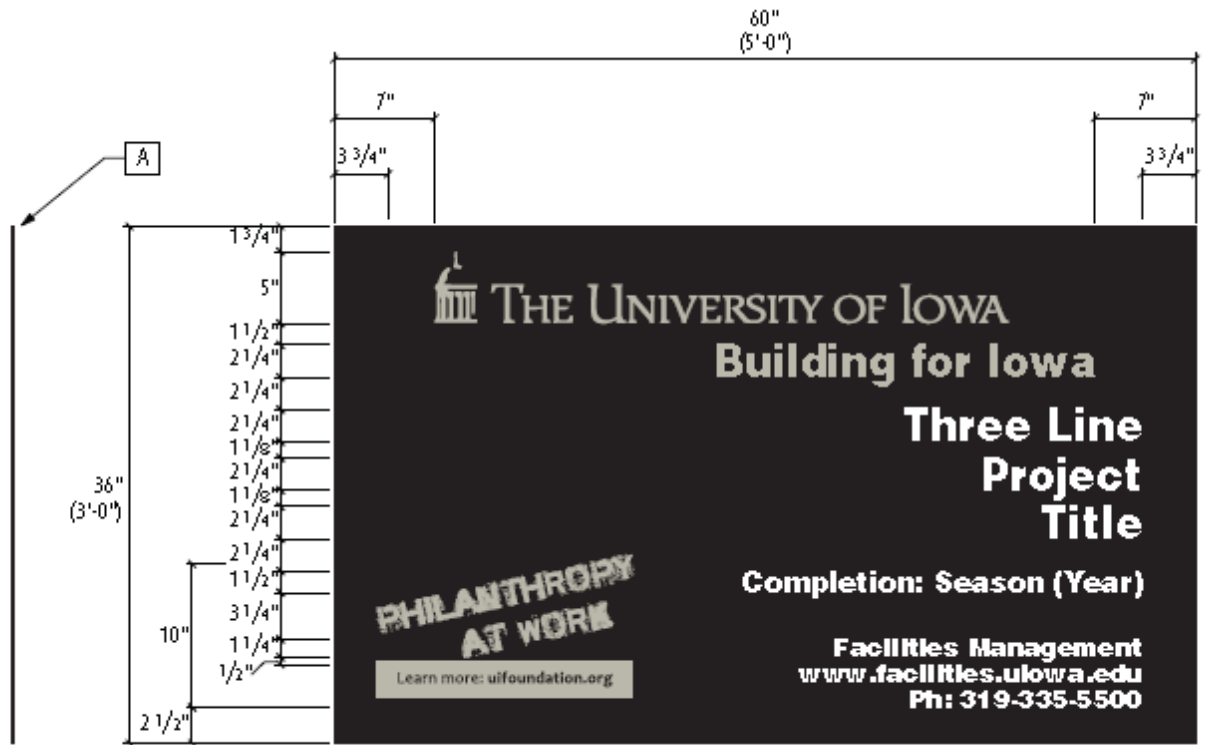
Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

Philanthropy Logo, Print on Panel PMS 1235C, 1st Surface

COLOR SCHEDULE

Black (Alu-Panel)
3M Sunflower (Vinyl)
White (Vinyl)
PMS 1235C (Yellow)

CONSTRUCTION PROJECT SIGNAGE- Continued



SIDE VIEW
scale: 1"= 1'-0"

TYPICAL VIEW
scale: 1"= 1'-0"

**THREE LINE LOCATION
WITH PHILANTHROPY LOGO**

PRODUCT CODE: ASI Dibond/Digital Print Series

OVERALL SIZE: 36" x 60"

MOUNTING: TBD by Client

A 1/8" Black Alu-Panel

UofI Logo, 3M Sunflower Vinyl

Helvetica LT Std Black, Inc., 3M Sunflower Vinyl

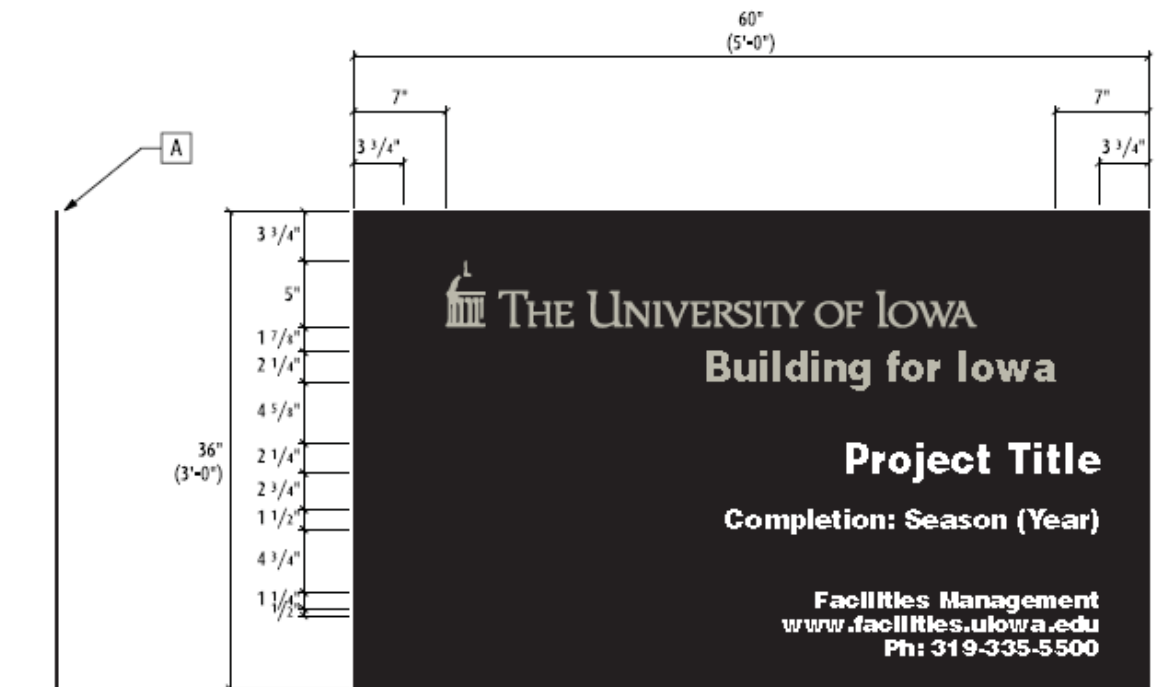
Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

Philanthropy Logo, Print on Panel PMS 1235C, 1st Surface

COLOR SCHEDULE

Black (Alu-Panel)
3M Sunflower (Vinyl)
White (Vinyl)
PMS 1235C (Yellow)

CONSTRUCTION PROJECT SIGNAGE- Continued



SIDE VIEW
scale: 1"= 1'-0"

TYPICAL VIEW
scale: 1"= 1'-0"

ONE LINE LOCATION
WITHOUT PHILANTHROPY LOGO

PRODUCT CODE: ASI Dibond/Digital Print Series
OVERALL SIZE: 36" x 60"
MOUNTING: TBD by Client

A 1/8" Black Alu-Panel

UofI Logo, 3M Sunflower Vinyl

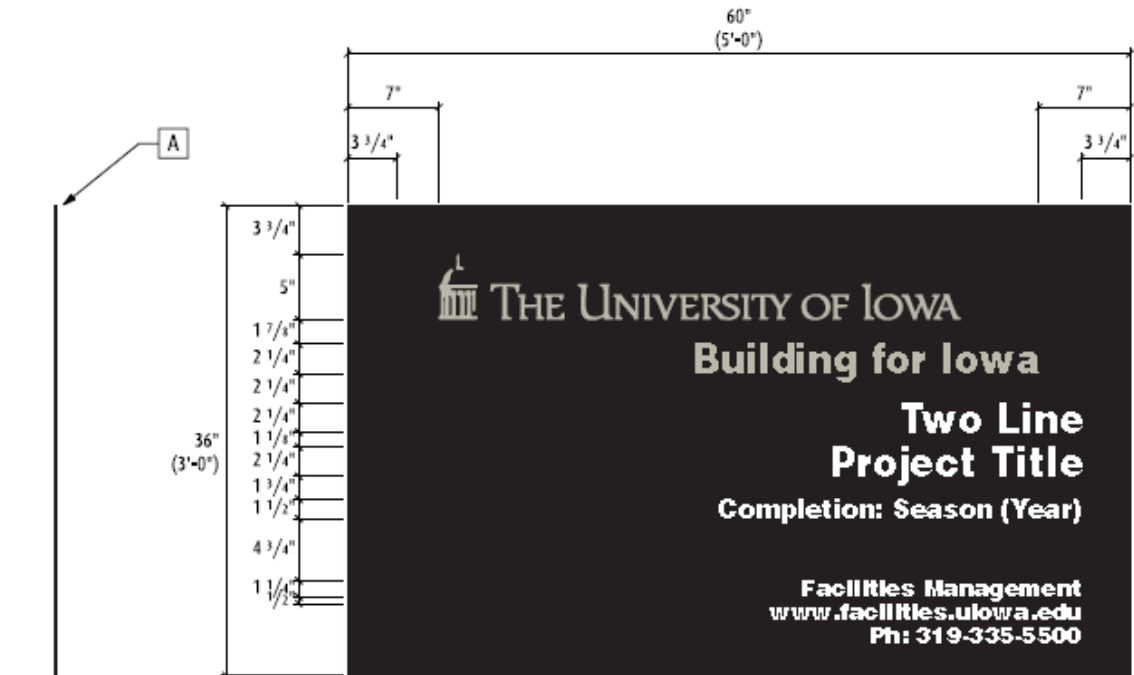
Helvetica LT Std Black, Inc., 3M Sunflower Vinyl

Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

COLOR SCHEDULE

Black (Alu-Panel)
3M Sunflower (Vinyl)
White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



SIDE VIEW
scale: 1"= 1'-0"

TYPICAL VIEW
scale: 1"= 1'-0"

TWO LINE LOCATION
WITHOUT PHILANTHROPY LOGO

PRODUCT CODE: ASI Dibond/Digital Print Series

OVERALL SIZE: 36" x 60"

MOUNTING: TBD by Client

A 1/8" Black Alu-Panel

UofI Logo, 3M Sunflower Vinyl

Helvetica LT Std Black, Inc., 3M Sunflower Vinyl

Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

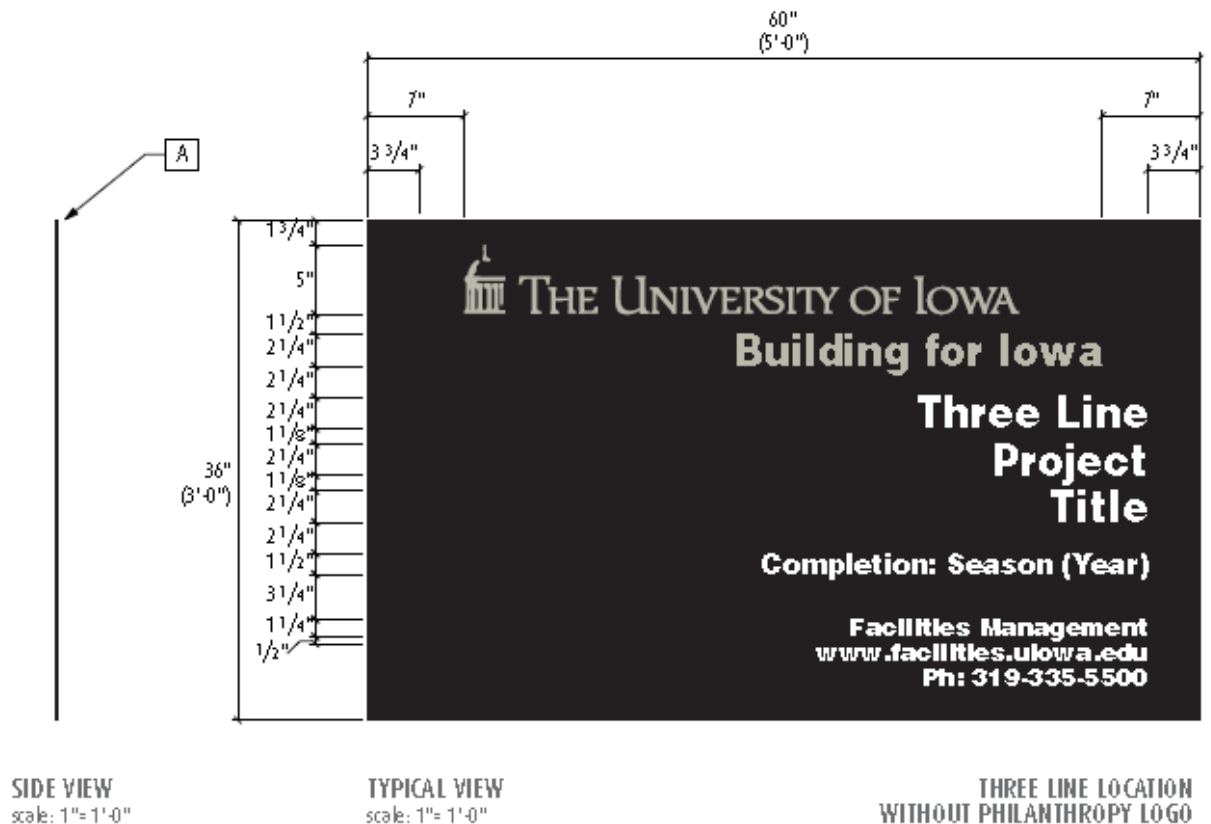
COLOR SCHEDULE

Black (Alu-Panel)

3M Sunflower (Vinyl)

White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI Dibond/Digital Print Series

OVERALL SIZE: 36" X 60"

MOUNTING: TBD by client

A 1/8" Black Alu-Panel

Uofi Logo, 3M Sunflower Vinyl

Helvetica LT Std Black, Inc., 3M Sunflower vinyl

Helvetica LT Std Black, Inc. and Number (Based on X),
3M White Vinyl

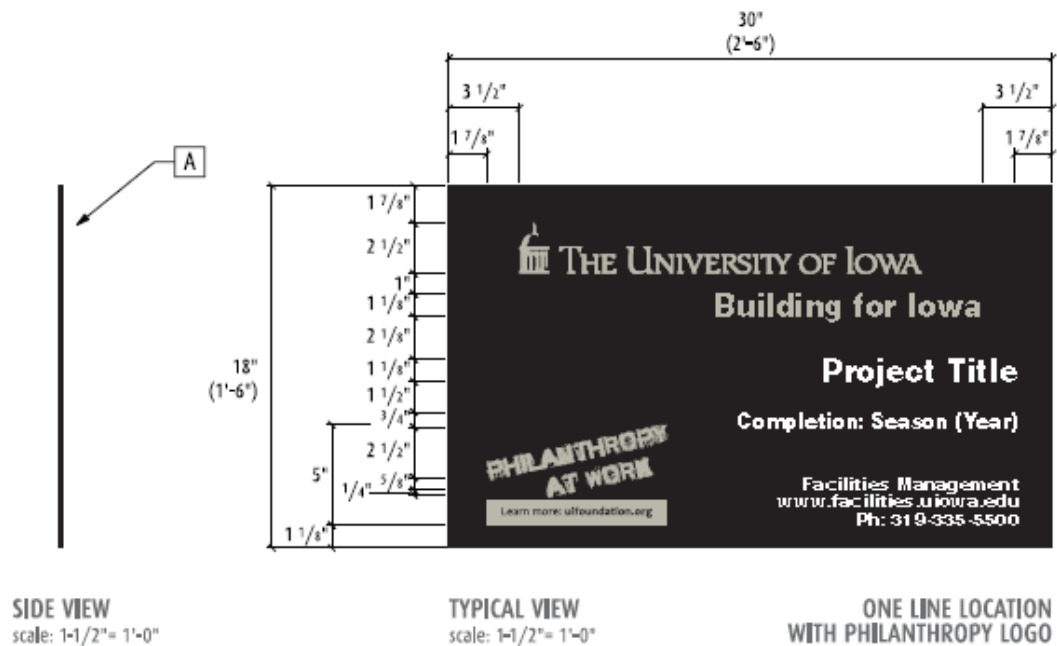
COLOR SCHEDULE

■ Black (Alu-Panel)

■ 3M Sunflower (Vinyl)

☐ White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

- A** 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:
- Background, SC-905 Black
 - Uoff Logo, PMS 1235C
 - Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)
 - Philanthropy Logo, PMS 1235C

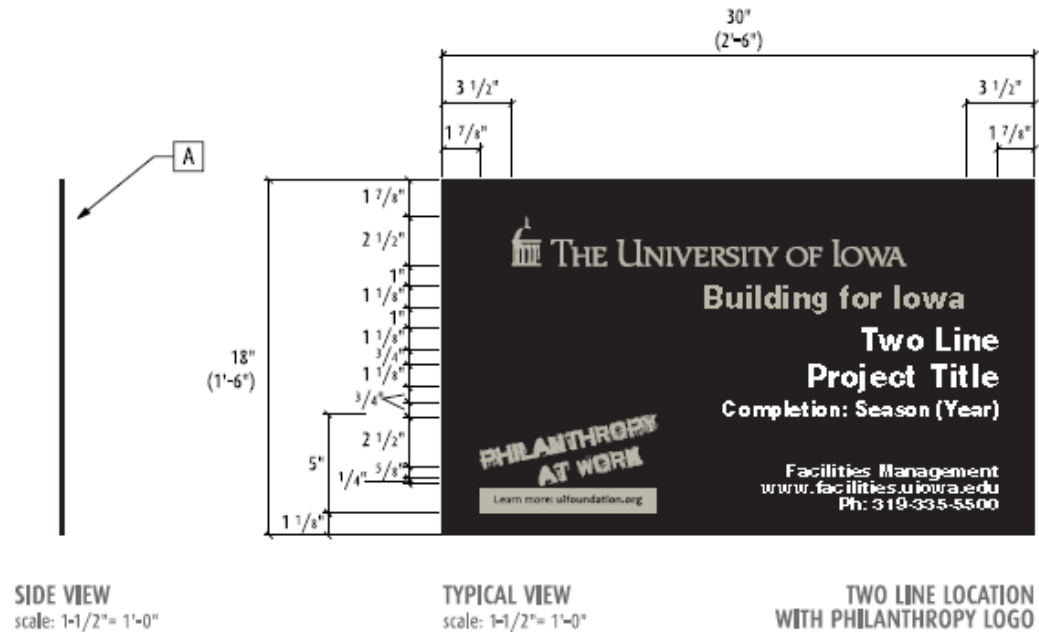
COLOR SCHEDULE

SC-905 Black

PMS 1235C (Yellow)

☐ White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

Philanthropy Logo, PMS 1235C

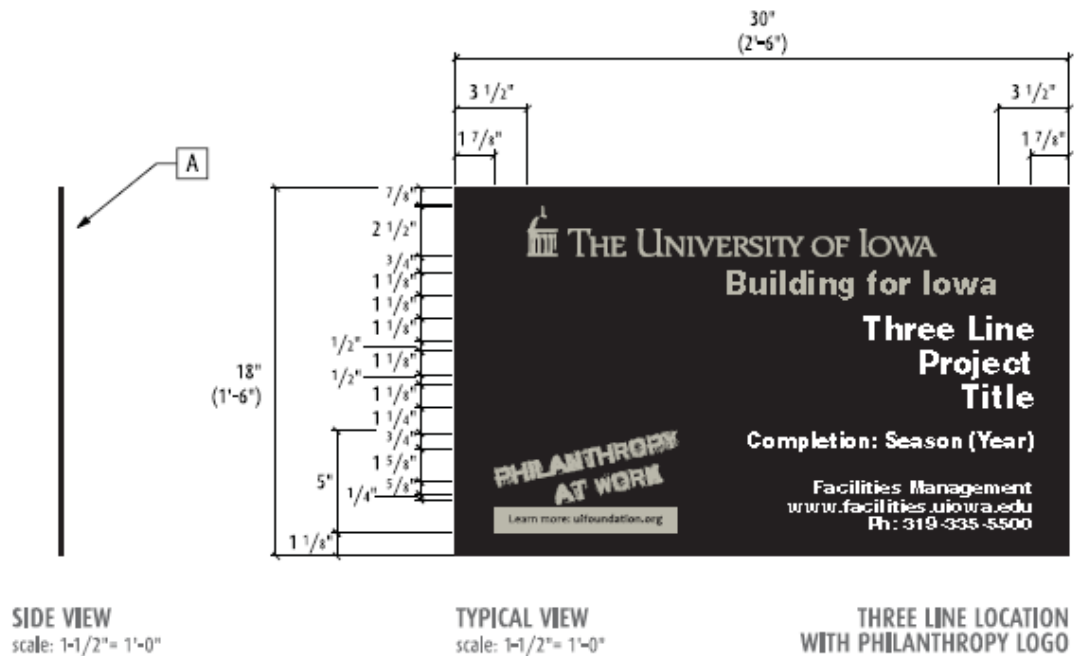
COLOR SCHEDULE

SC-905 Black

PMS 1235C (Yellow)

White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

UofI Logo, PMS 1235C

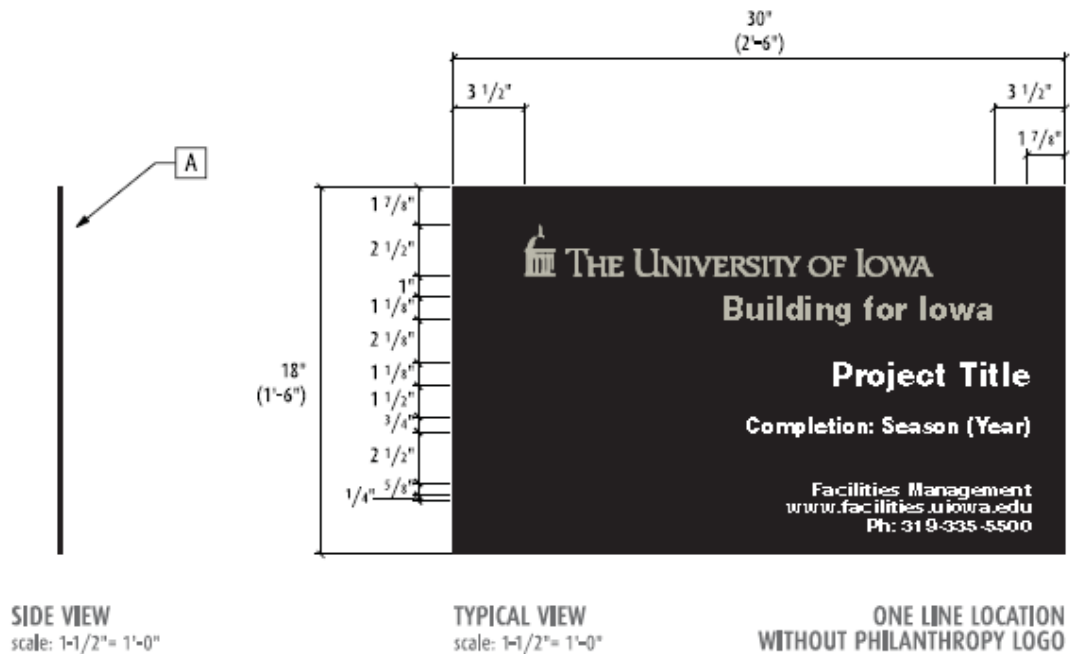
Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

Philanthropy Logo, PMS 1235C

COLOR SCHEDULE

	SC-905 Black
	PMS 1235C (Yellow)
	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X),
PMS 1235C and White (Viny| Shows Through)

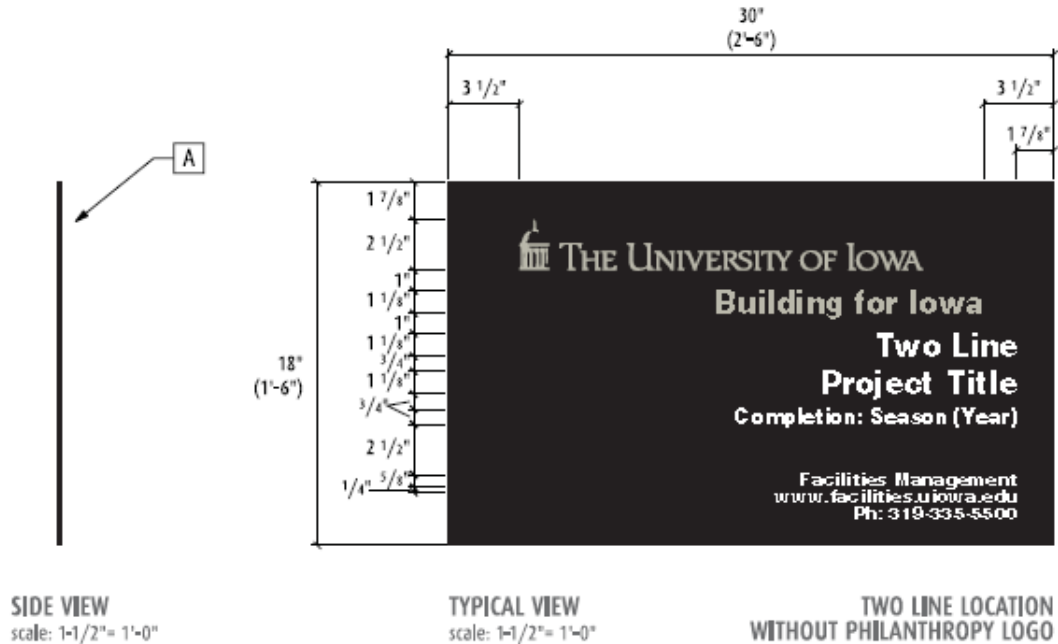
COLOR SCHEDULE

■ SC-905 Black

 PMS 1235C (Yellow)

☐ White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

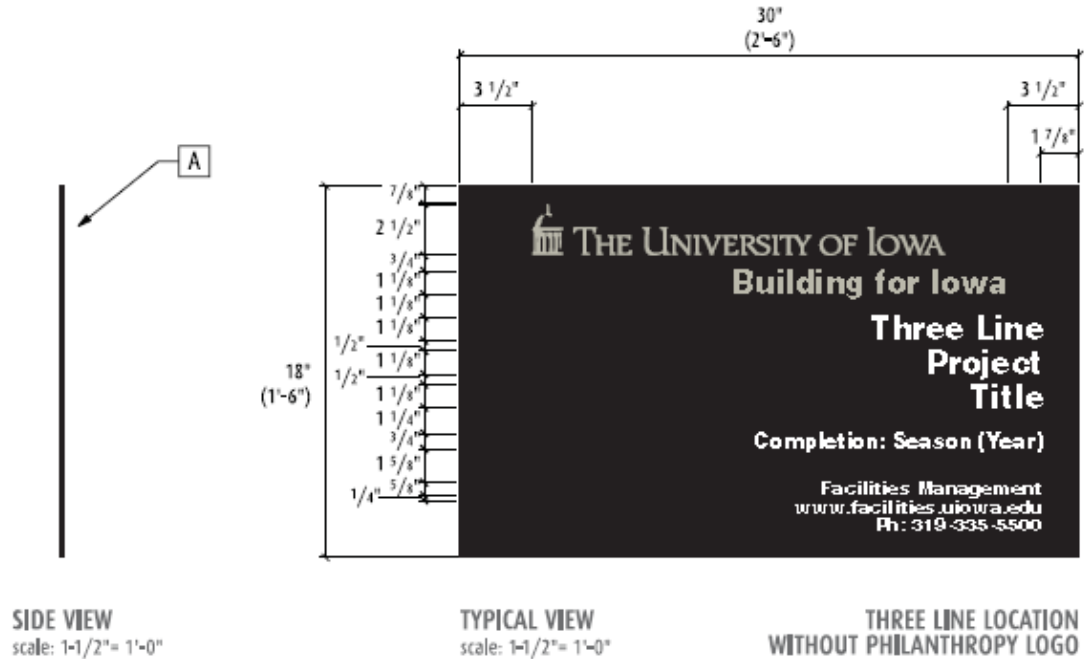
UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X),
PMS 1235C and White (Vinyl Shows Through)

COLOR SCHEDULE

■	SC-905 Black
■	PMS 1235C (Yellow)
■	White (Vinyl)

CONSTRUCTION PROJECT SIGNAGE- Continued



PRODUCT CODE: ASI SPN/Digital Print Series

OVERALL SIZE: 18" x 30"

MOUNTING: TBD by Client

A 1/8" Clear Acrylic, Polished Edges, with 3M Receptive Vinyl Applied to Face, Digitally Printed Graphics Consisting of:

Background, SC-905 Black

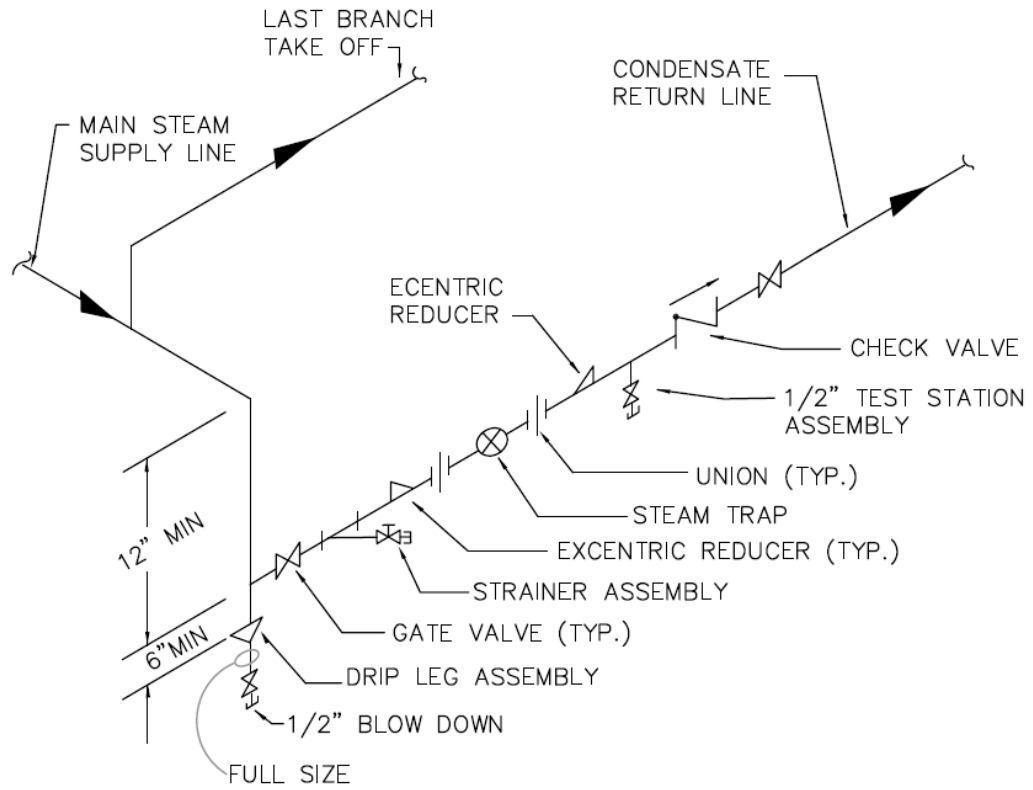
UofI Logo, PMS 1235C

Helvetica LT Std Black, Inc. and Number (Based on X), PMS 1235C and White (Vinyl Shows Through)

COLOR SCHEDULE

SC-905 Black
PMS 1235C (Yellow)
White (Vinyl)

END OF MAIN DRIP STATION PIPING (BUILDING) DETAIL



ENERGY IMPACT STATEMENT

Building Energy Summary:

Parameter	SD	DD	CD
Project Affected Gross Area (GSF)			
Annual Total Building Energy Use (MMBtu/year)			
Annual Total Building Energy Use per GSF (Btu/year/GSF)			

Energy Statistics:

	Parameter	SD	DD	CD
Electrical	Maximum Demand (kW)			
	Annual Consumption (kWh)			
	Lighting (kWh)	<i>Not req'd</i>		
	HVAC (kWh)	<i>Not req'd</i>		
	Misc. Equipment (kWh)	<i>Not req'd</i>		
Emergency Generation	Engine Size (bhp or kW)	<i>Not req'd</i>		
	Fuel (#2 diesel or natural gas)	<i>Not req'd</i>		
Low Pressure Steam	Summer Peak Load (lbs/hr)			
	Winter Peak Load (lbs/hr)			
	Annual Consumption (MMBtu/yr)			
	Heating (MMBtu/yr)	<i>Not req'd</i>		
	Humidification (MMBtu/yr)	<i>Not req'd</i>		
	Air Conditioning (MMBtu/yr)	<i>Not req'd</i>		
	Domestic Water Heating (MMBtu/yr)	<i>Not req'd</i>		
	Process (MMBtu/yr)	<i>Not req'd</i>		
High Pressure Steam	Summer Peak Load (lbs/hr)			
	Winter Peak Load (lbs/hr)			
	Annual Consumption (MMBtu/yr)			
Chilled Water	Summer Peak Load (tons/hr)			
	Winter Peak Load (tons/hr)			
	Annual Consumption (MMBtu/hr)			
Domestic Cold Water	Peak Demand (GPM)			
	Peak Sanitary Demand (GPM)			
	Annual Consumption (Mil gal/yr)			
	Sanitary Sewer (Mil gal/yr)	<i>Not req'd</i>		
	Cooling Tower Evap. (Mil gal/yr)	<i>Not req'd</i>		
	Cooling Tower Blowdown (Mil gal/yr)	<i>Not req'd</i>		
Domestic Hot Water	Peak Demand (GPM)			
	Annual Consumption (Mil gal/yr)			
Natural Gas	Peak Demand (Therms/hr)			
	Annual Consumption (Therms/yr)			
Storm Drainage System	Design Storm Peak Volume (GPM)			

EXTERIOR SIGNAGE DETAILS

THE UNIVERSITY
OF IOWA

A1 Logo/Artwork (double-stacked)

THE
UNIVERSITY
OF IOWA

A2 Logo/Artwork (triple-stacked)



A3 Dome Logo

 THE UNIVERSITY OF IOWA

A5 Logo/Artwork as used on bottom of University signs

 THE UNIVERSITY OF IOWA RESEARCH PARK

A6 Logo/Artwork as used on bottom of University signs

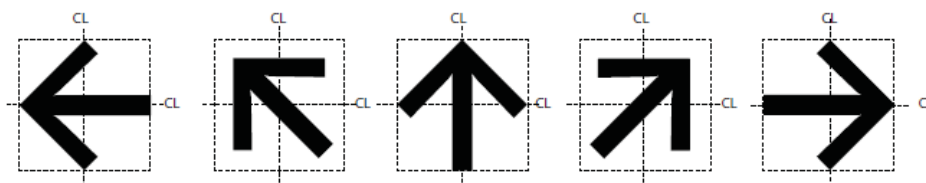
 THE UNIVERSITY OF IOWA
RESEARCH PARK

A7 Logo/Artwork as used on bottom of Research Park signs
(stacked version)

RESEARCH PARK

A4 Logo/Artwork for Research Park wordmark

Arrows



S1 Directional Arrow

International Symbols



S2 Handicapped Accessible



S3 Parking



S4 Hospital



S5 Will be towed



S6 Information

EXTERIOR SIGNAGE DETAILS - Continued

F1 - Myriad Pro Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 &!?,."

F2 - Myriad Pro Semibold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 &!?,."

F3 - Myriad Pro Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890 &!?,."

Graphic Standards

Typefaces

F1 - Myriad Pro Bold
F2 - Myriad Pro Semibold
F3 - Myriad Pro Regular


Notes









No substitute typefaces will be accepted.

Typefaces are available from:
Adobe Systems Inc. (www.adobe.com/type)

Paint Matches	Number	Color	Specification	Paint or Coating
	P1	Yellow	Corafon AD561680XL	Surface Painted
	P2	Black	Corafon AD52301060	Surface Painted
	P3	Light Gray	Corafon AD59907030	Surface Painted
	P4	Dark Gray	Corafon AD51946030	Surface Painted
	P5	Green	Corafon AD554440XL	Surface Painted
	P6	Rust	Corafon AD57163025	Surface Painted
	P7	Color	Corafon AD57163025	Surface Painted
	P8	White	Corafon AD52524030	Surface Painted
	P9	Blue	Corafon AD53246010	Surface Painted

Custom Matches	Number	Material	Specification - color to match	Finish
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	C1	Anamosa Stone	To match control sample, consistent face texture	Cut & quaried, cast when necessary
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Manufactured Products	Number	Product	Specification - color to match	Material
	M1	Reflective Vinyl	3M 4090	Cut & Applied
	M2	Reflective Vinyl	3M 680-77	Cut & Applied
	M3	Reflective Vinyl	3M 680-75	Cut & Applied
	M4	Digitally Printed Vinyl	3M	Cut & Applied
	M5	Translucent Vinyl	3M 180C - 15	Cut & Applied
	M6	Translucent Vinyl	White Diffuser	Cut & Applied
	M7	Canvas Banner Material	Yellow (To match P1)	Cut & Applied
	M8	Translucent Vinyl	Green (To match P5))	Cut & Applied

BASIC STANDARDS

Graphic Standards

Color Schedule

Paints

-Corafon paint products are specified for exterior signage and display hardware and related elements.
- Gloss finish of paint specified is to be 60 degrees or 29.8 on a 60 degree glossimeter. Refer to performance requirements of exact specifications.
- All acrylic polyurethane finishes require final clear coat finish.

Approved Manufacturers:

PPG Architectural Finishes, Inc.
888.774.7732
www.ppghpc.com
3M Commercial Graphics Division
800.328.3908
www.3M.com/us/graphicarts
Avery Graphics
800.443.9380
www.averygraphics.com

BASIC STANDARDS

Graphic Standards

Color Schedule

Paints

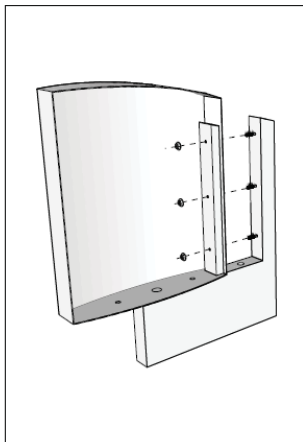
- Matthews paint products are specified for exterior signage and display hardware and related elements.
- Gloss finish of paint specified is to be 60 degrees or 29.8 on a 60 degree glossimeter. Refer to performance requirements of exact specifications.
- All acrylic polyurethane finishes require final clear coat finish.

Approved Manufacturers:

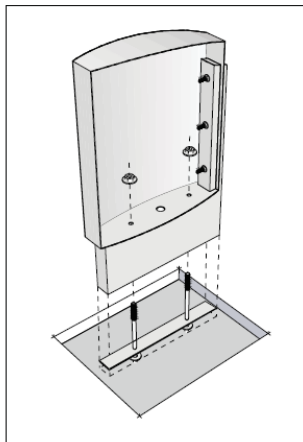
PPG Architectural Finishes, Inc.
888.774.7732
www.ppghpc.com
3M Commercial Graphics Division
800.328.3908
www.3M.com/us/graphicarts
Avery Graphics
800.443.9380
www.averygraphics.com

EXTERIOR SIGNAGE DETAILS - Continued

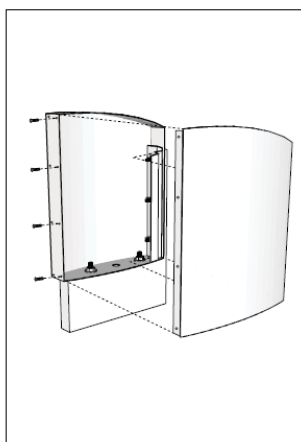
CONSTRUCTION DRAWINGS



Attachment of vertical cabinet brace to riser of base



Assembly is lowered onto J-bolts embedded in cement footer



Rear cabinet face is attached with tamper-proof fasteners on one side & z-clipped on the other (painted to match face color)

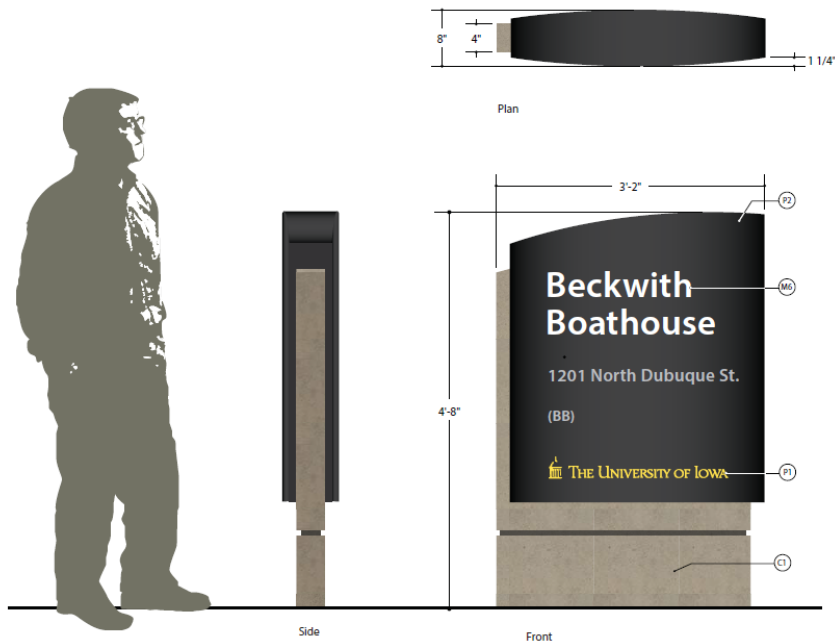
① Assembly Illustration
scale: not to scale

Installation Detail

All cast monument signs shall utilize the method shown.

ELEVATION DRAWINGS

Building Monument Sign - Medium



① Building Monument Sign - Medium
scale: 1"=1'-0"

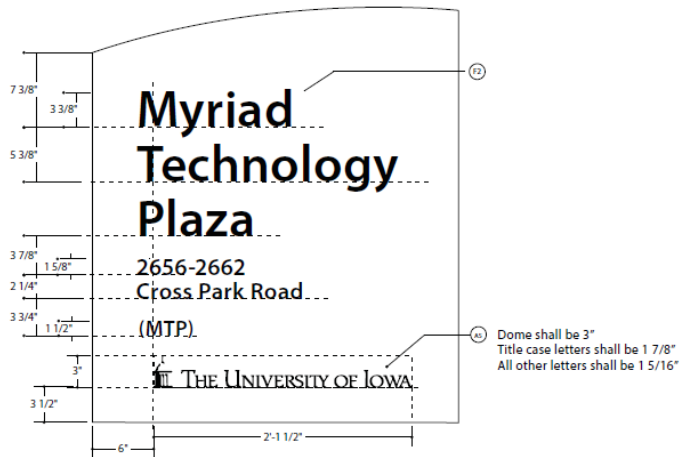
THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued

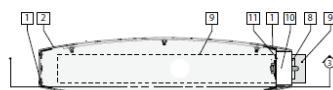
LAYOUT GUIDELINES

Building Monument Sign - Medium

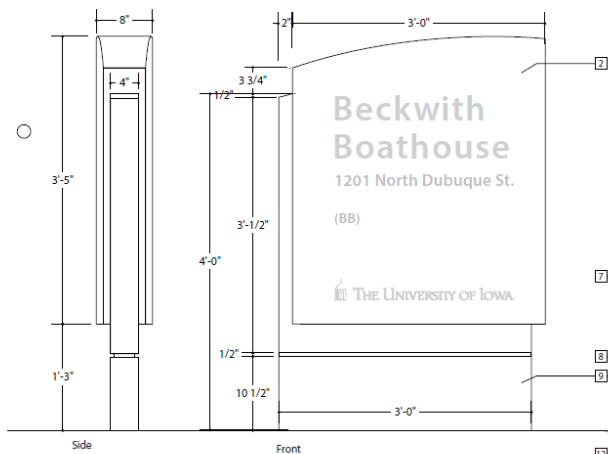
Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.



1 Layout Building Monument Sign - Medium
scale: 1 1/2" = 1'-0"



2 Section Detail
scale: 1" = 1'-0"



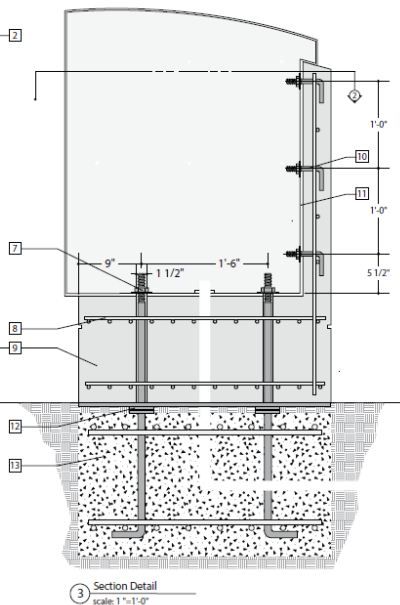
1 Elevations Building Monument Sign - Medium
scale: 1" = 1'-0"

- 1 Front & rear panels are removable for installation and service, affixed via welded channel and tamper-proof hardware, or clipped on opposite end.
- 2 Sign cabinet is 1/8" thick aluminum, router-cut sheet, welded construction templates will be provided by CGA.
- 3 Light gauge rebar cast into sign base for added structural support.
- 4 Cast concrete base (custom finish).
- 5 Short J bolts cast into sign base riser to allow for vertical fastening to sign cabinet and lighting frame.
- 6 1/8" wall 2 1/4" x 4 1/2" U-channel welded to sign cabinet to provide recess for accepting base riser.
- 7 Spacing shims and 1/2" thick support plate for leveling sign on footer (Note: backfill needed).
- 8 Concrete footer (size and rebar needs to be specified by sign fabricator's engineer).
- 9 Sign base (with precast tubes) and cabinet are lowered onto stainless steel J-bolts and fastened into place.

CONSTRUCTION DRAWINGS

Building Monument Sign - Medium

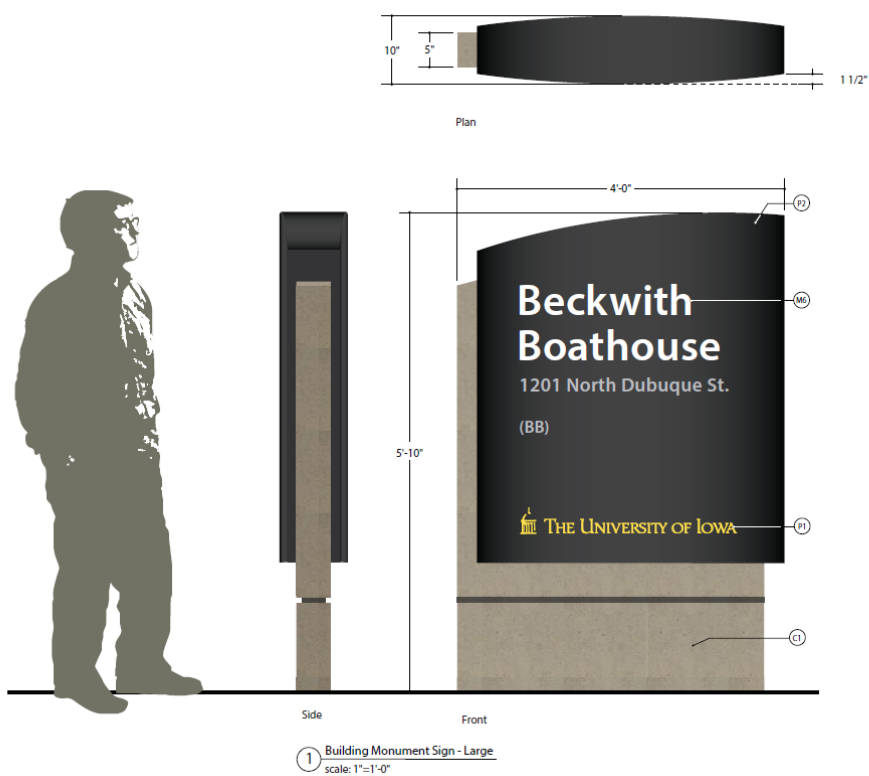
Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.
Cabinet face curves to follow corresponding cut aluminum components.
Concrete footer installation details to be drawn and stamped by a certified structural engineer.



3 Section Detail
scale: 1" = 1'-0"

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

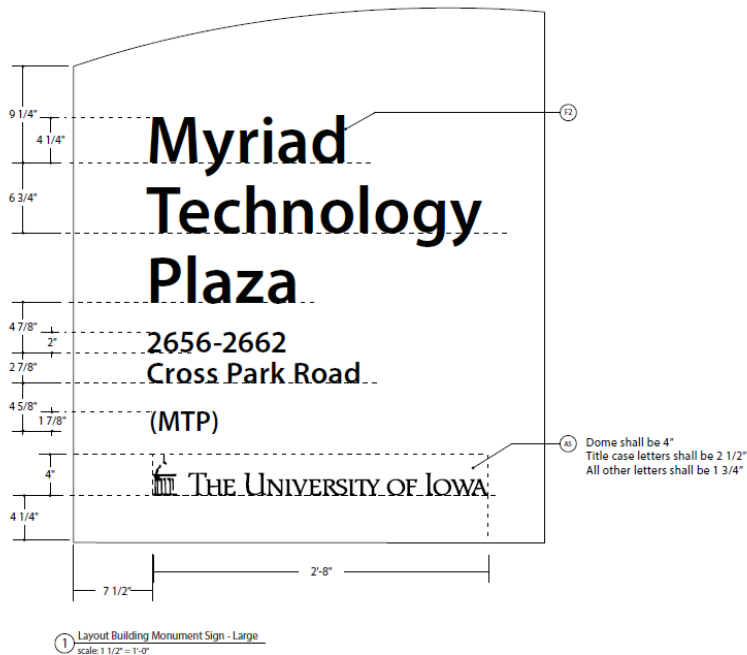
EXTERIOR SIGNAGE DETAILS - Continued



ELEVATION DRAWINGS

Building Monument Sign - Large

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS



LAYOUT GUIDELINES

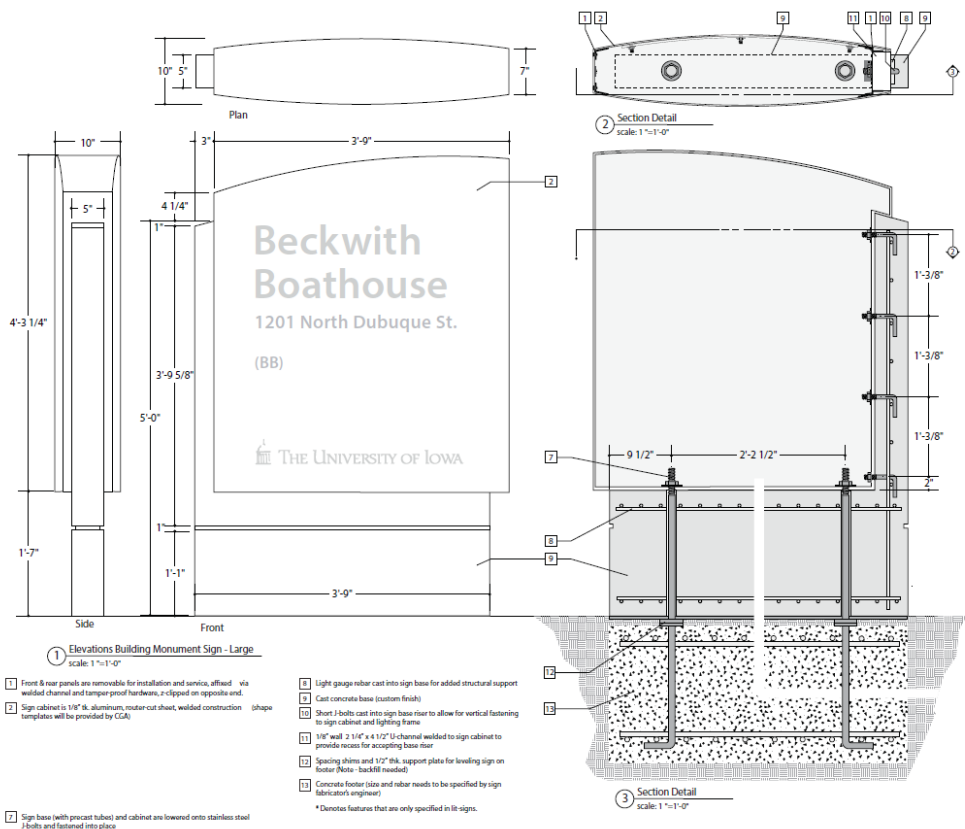
Building Monument Sign - Large

Note: All panels and other unique sign
component shapes shall be provided as full
size artwork for each sign type.

(M6) Dome shall be 4"
Title case letters shall be 2 1/2"
All other letters shall be 1 3/4"

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued



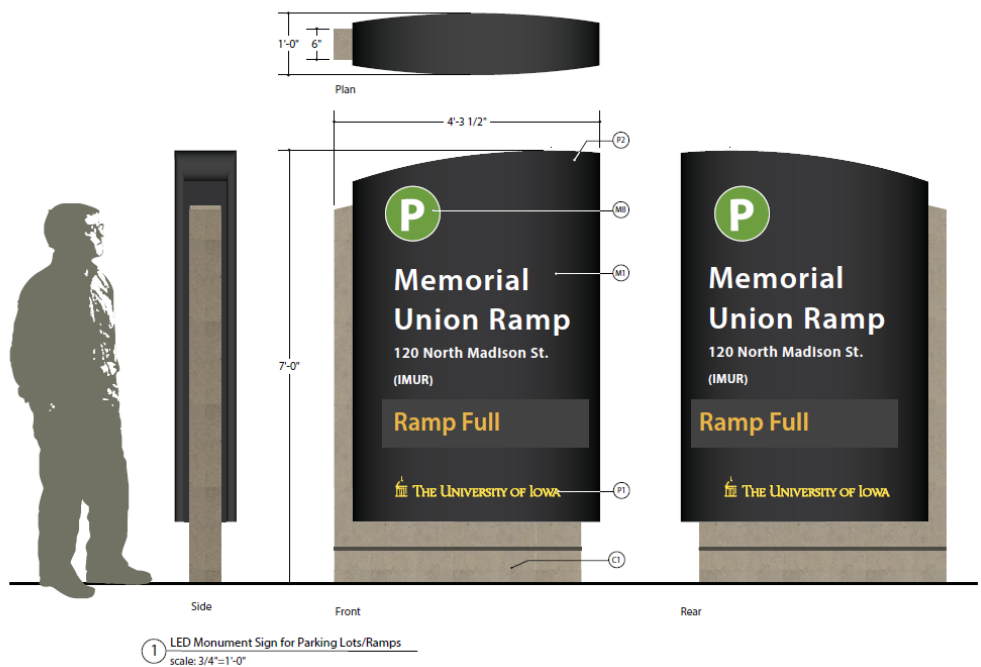
CONSTRUCTION DRAWINGS

Building Monument Sign - Large

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.
Cabinet face curves to follow corresponding cut aluminum components.

Concrete footer installation details to be drawn and stamped by a certified structural engineer.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS



ELEVATION DRAWINGS

LED Monument Sign for Parking Lots/Ramps

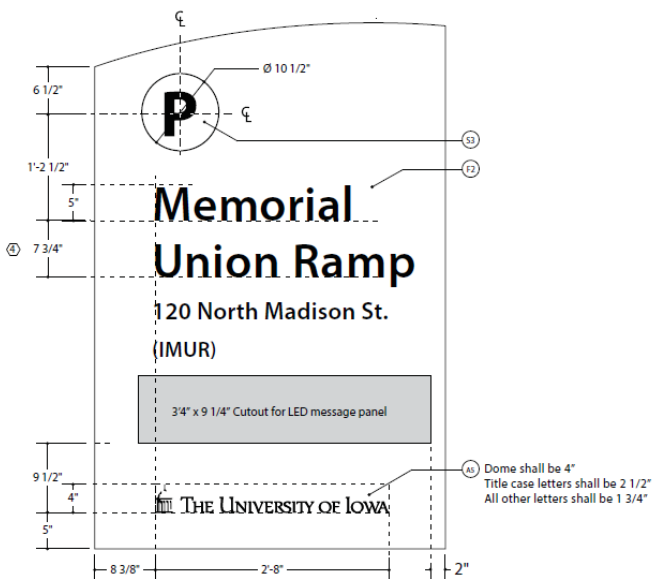
THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued

LAYOUT GUIDELINES

LED Monument Sign for Parking Lots/Ramps

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.



1 Layout
scale: 1" = 1'-0"

- 1 typ. spacing between title & destination
- 2 typ. spacing between destinations
- 3 typ. spacing between directions
- 4 typ. spacing for a double line destination

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

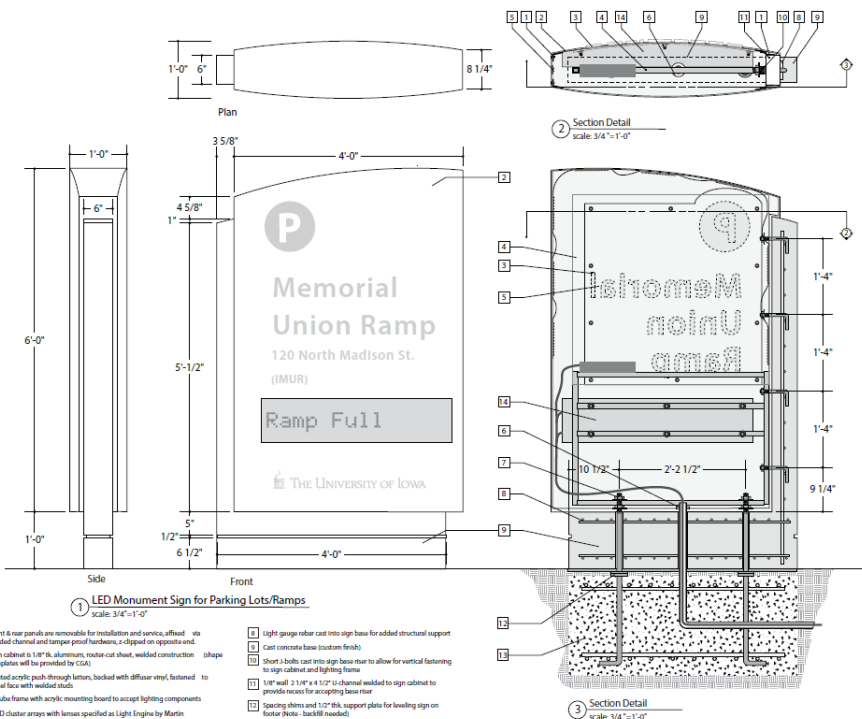
CONSTRUCTION DRAWINGS

LED Monument Sign for Parking Lots/Ramps

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.

Fabricator responsible for complying with all UL standards for electric signs including locating emergency shutoff switches in unobtrusive locations.

Concrete footer installation details to be drawn and stamped by a certified structural engineer.

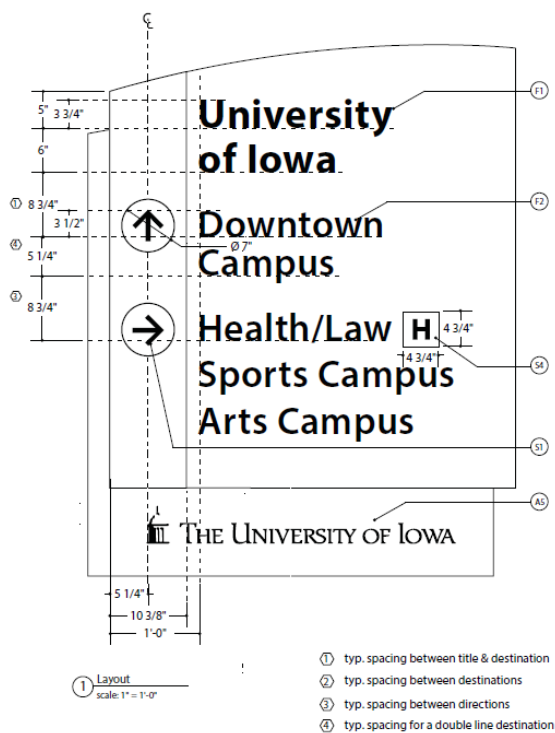
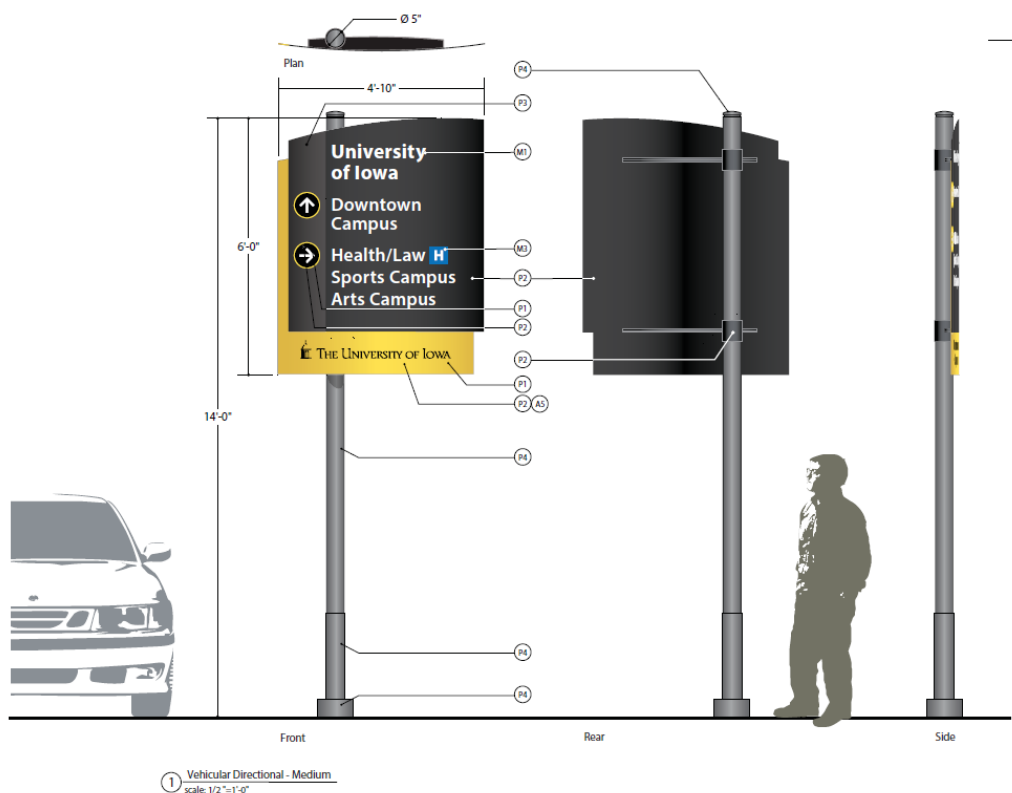


1 LED Monument Sign for Parking Lots/Ramps
scale: 3/4" = 1'-0"

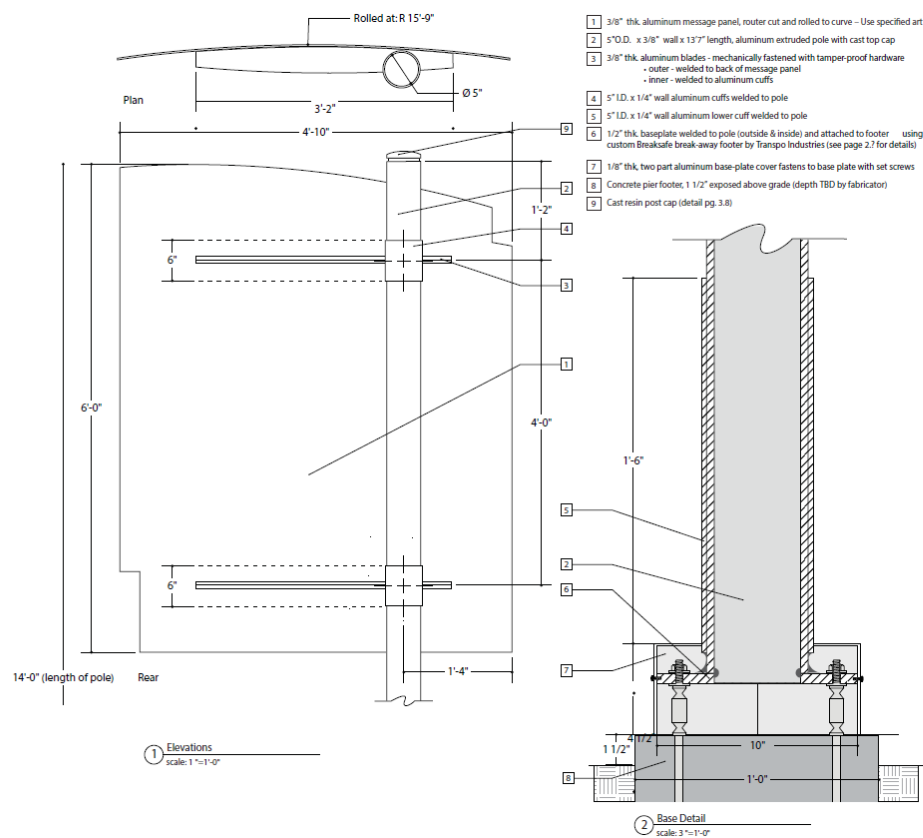
- 1 front & rear panels are removable for installation and service, affixed into welded channel and tamper proof hardware, a clipped on opposite end.
- 2 sign cabinet is 1/8" thick aluminum, router cut sheet, welded construction. Templates will be provided by CGA.
- 3 heated acrylic push-through letters, backed with diffuser vinyl, fastened to panel face with welded studs.
- 4 1" tube frame with acrylic mounting board to accept lighting components.
- 5 LED cluster arrays with lenses specified as Light Engine by Martin (see spec section of this book).
- 6 electrical conduit cast into footer and run through pre-cast tube in base base grey electrical grade 1 1/2" PVC conduit. Fabricator to install conduit up to 5' beyond foundation. Coordinate installation with Owner's selected Electrical Contractor.
- 7 sign base (with precast tubes) and cabinet are lowered onto stainless steel 2x6s and fastened into place.
- 8 light gauge rebar cast into sign base for added structural support.
- 9 cast concrete base (custom finish).
- 10 door 3/8" cast into sign base rear to allow for vertical fastening to sign cabinet and lighting frame.
- 11 1/8" wall 2 1/4" x 4 1/2" U-channel welded to sign cabinet to provide recess for accepting base rear.
- 12 spacing shims and 1/2" thick support plates for leveling sign on footer (note: backfill needed).
- 13 concrete footer (size and rebar needs to be specified by sign fabricator's engineer).
- 14 curved to match sign face, modular LED message display, 16mm pitch monochrome amber (by Watchfire sign).

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued



EXTERIOR SIGNAGE DETAILS - Continued

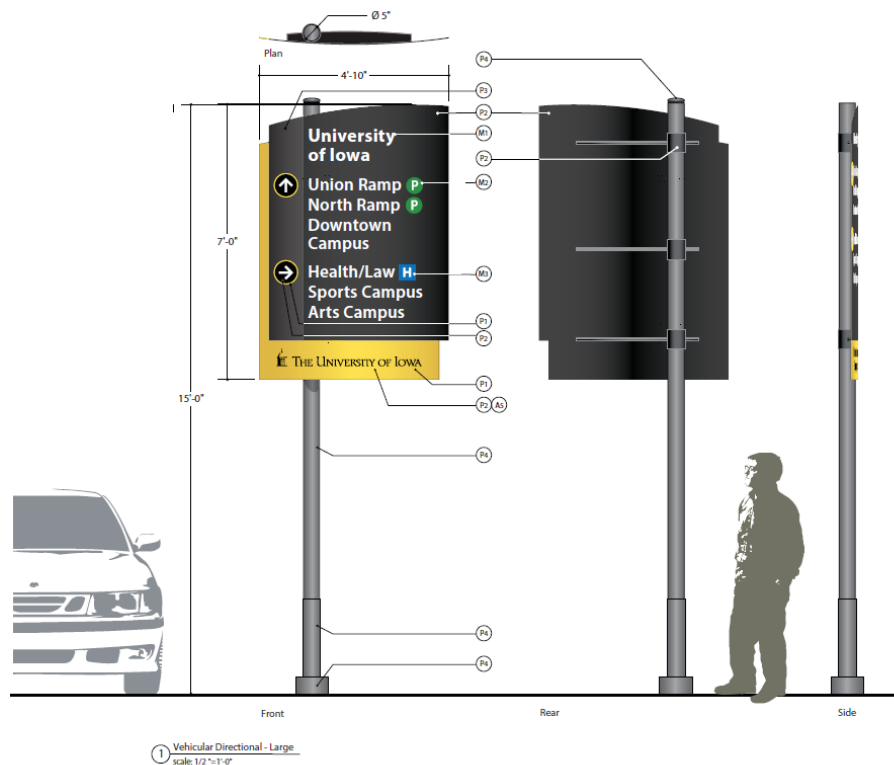


CONSTRUCTION DRAWINGS

Vehicular Directional - Medium

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.
Concrete footer installation details to be drawn and stamped by a certified structural engineer.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

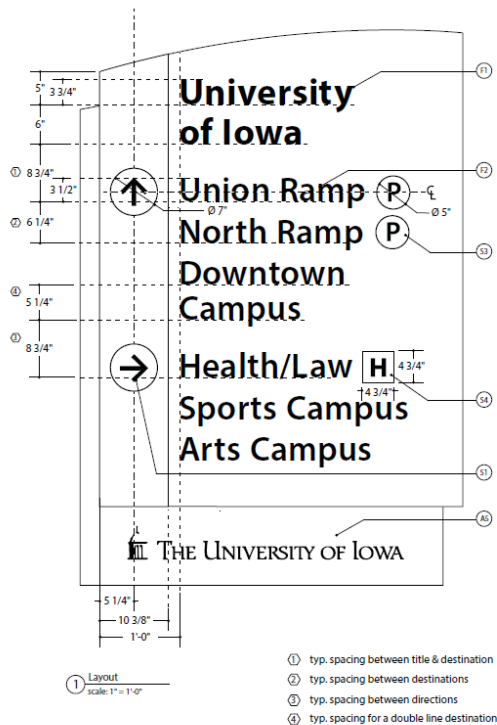


ELEVATION DRAWINGS

Vehicular Directional - Large

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued

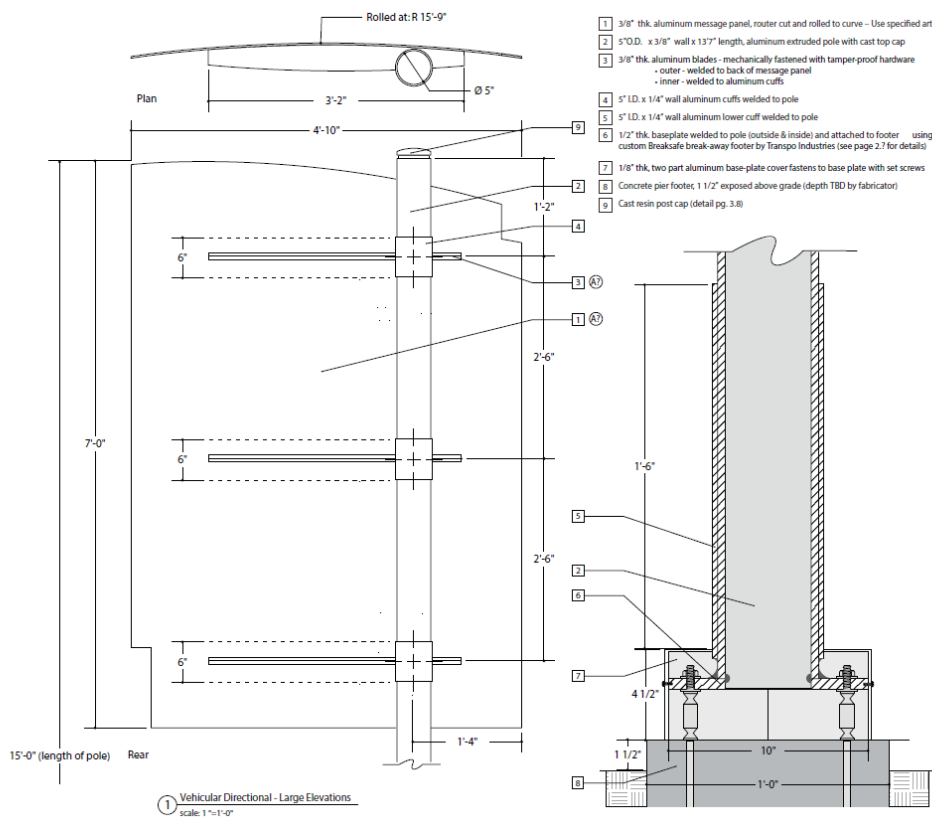


LAYOUT GUIDELINES

Vehicular Directional - Large

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS



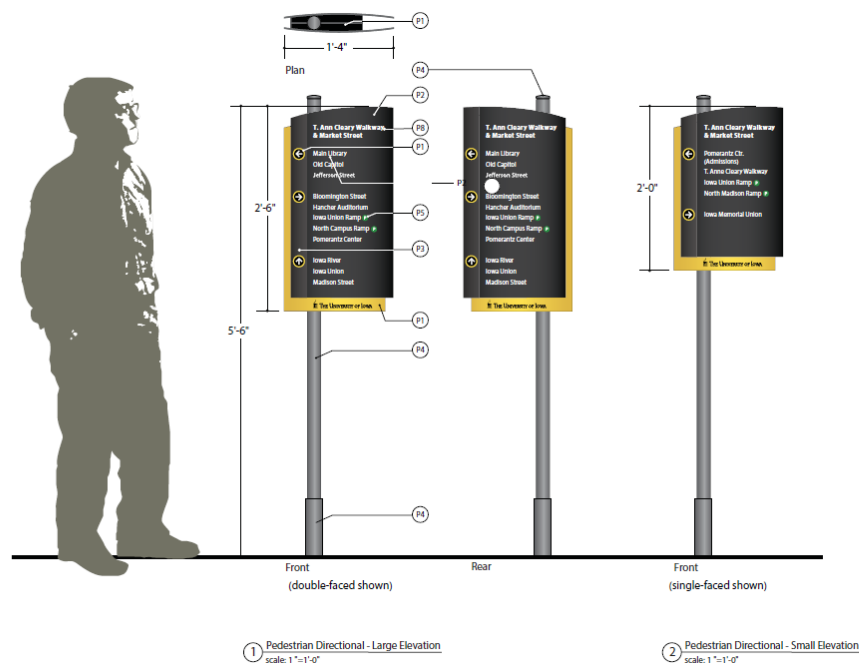
CONSTRUCTION DRAWINGS

Vehicular Directional - Large

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.
Concrete footer installation details to be drawn and stamped by a certified structural engineer.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued



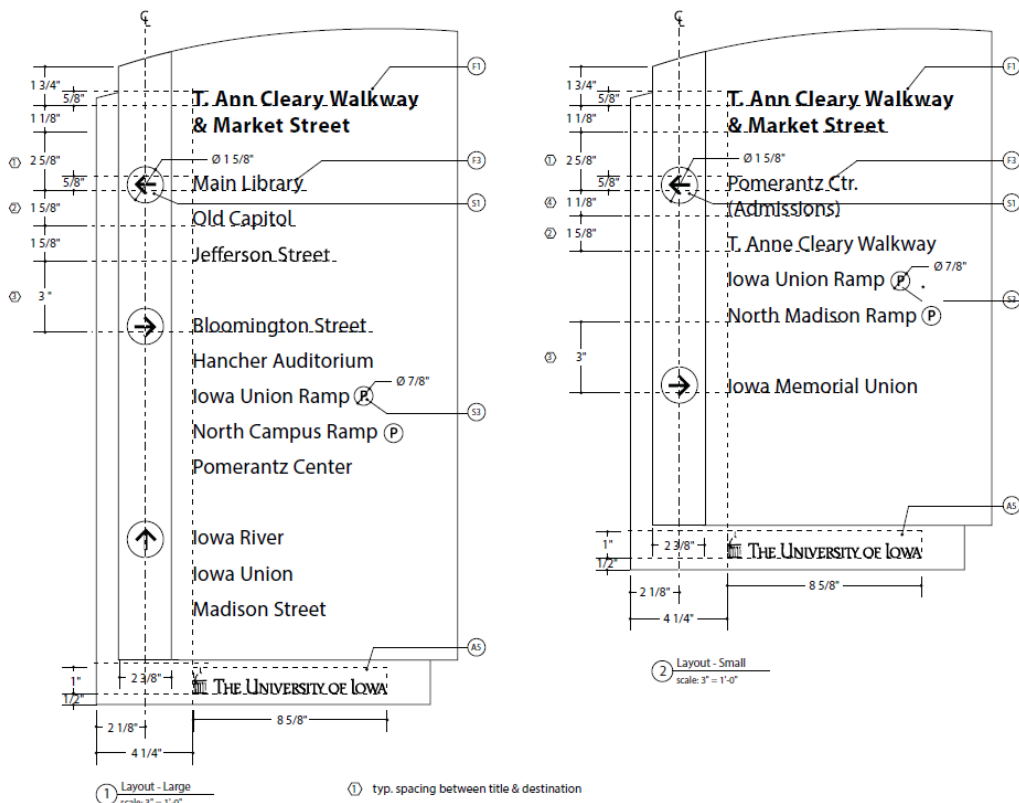
1 Pedestrian Directional - Large Elevation
scale: 1" = 1'-0"

2 Pedestrian Directional - Small Elevation
scale: 1" = 1'-0"

ELEVATION DRAWINGS

Pedestrian Directional - Large and Small
Freestanding, pole-mounted

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS



1 Layout - Large
scale: 3" = 1'-0"

2 Layout - Small
scale: 3" = 1'-0"

- 1 typ. spacing between title & destination
- 2 typ. spacing between destinations
- 3 typ. spacing between directions
- 4 typ. spacing for a double line destination

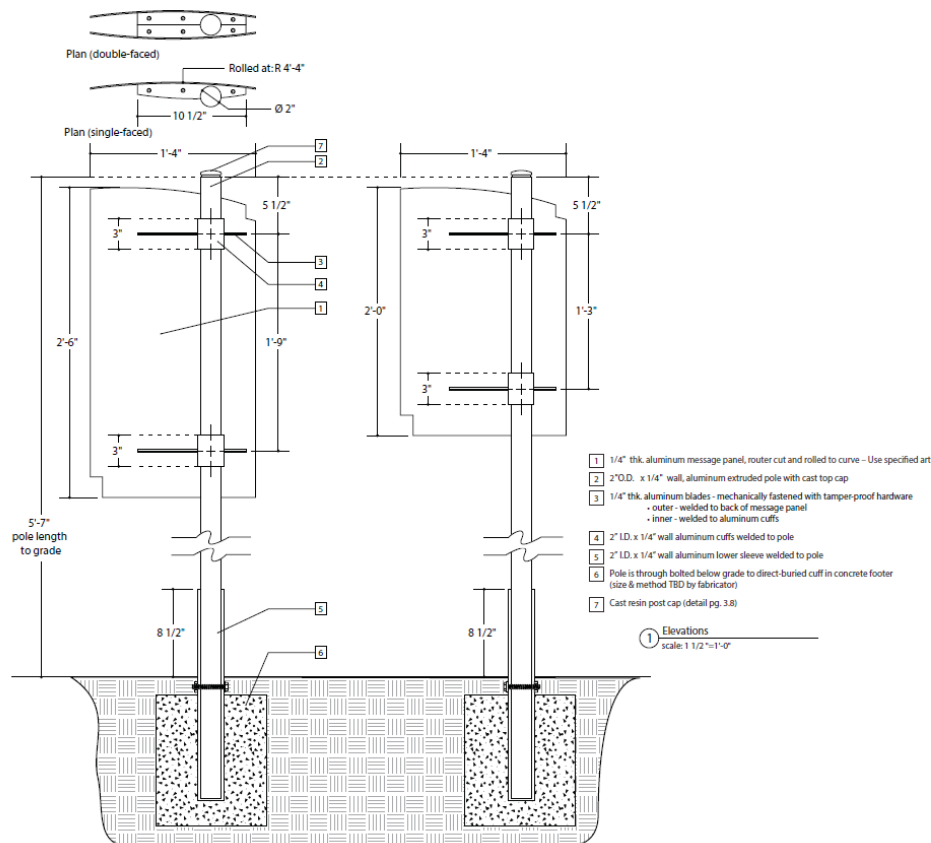
LAYOUT GUIDELINES

Pedestrian Directional - Large and Small
Freestanding, pole-mounted

Note: All panels and other unique sign
component shapes shall be provided as full
size artwork for each sign type.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued



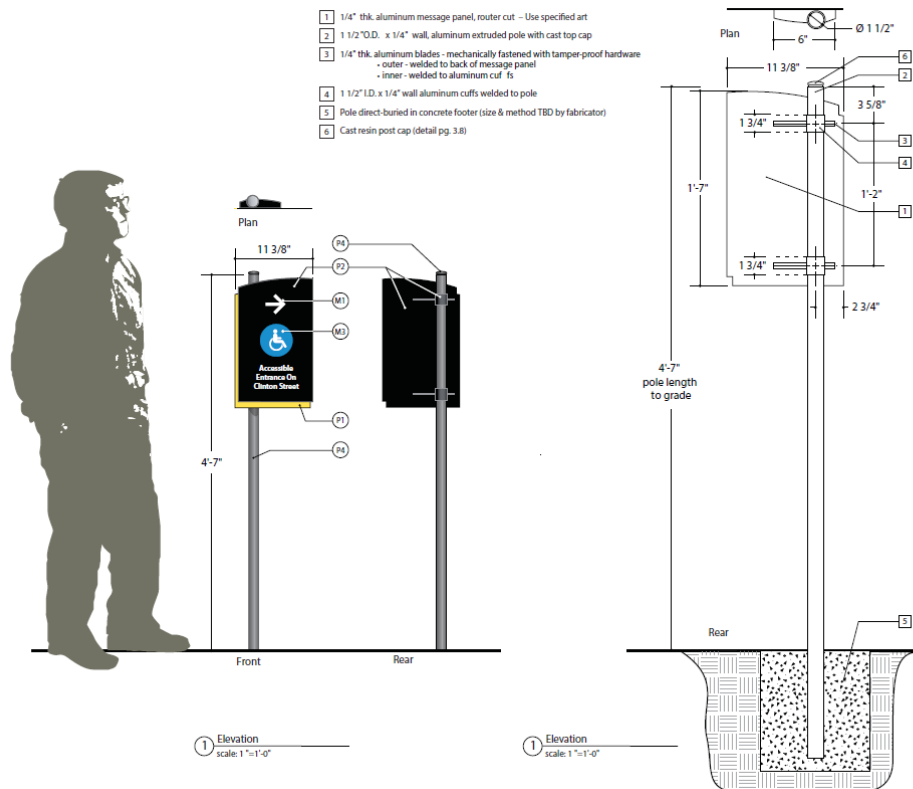
CONSTRUCTION DRAWINGS

Pedestrian Directional - Large and Small

Freestanding, pole-mounted

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.
Concrete footer installation details to be drawn and stamped by a certified structural engineer.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS



ELEVATION DRAWINGS

Accessible Trailblazer

Freestanding, pole-mounted

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.

THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

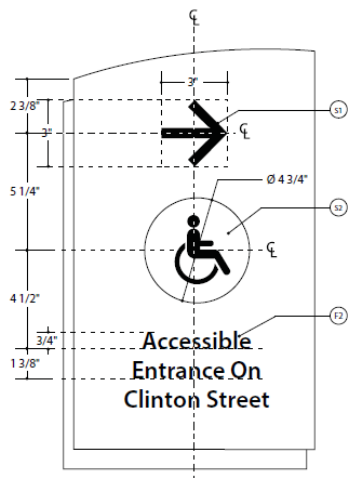
EXTERIOR SIGNAGE DETAILS - Continued

LAYOUT GUIDELINES

Accessible Trailblazer

Freestanding, pole-mounted

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.



1 Layout
scale: 3" = 1'-0"

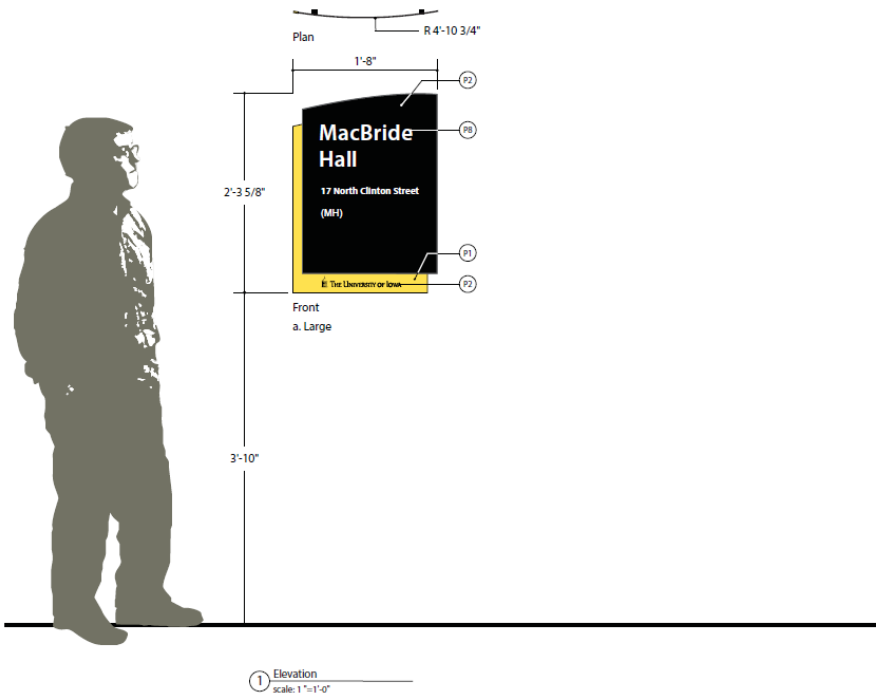
THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

ELEVATION DRAWINGS

Building ID - Wall Mounted - Large

Mounted to wall with welded studs and silicone

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.



1 Elevation
scale: 1" = 1'-0"

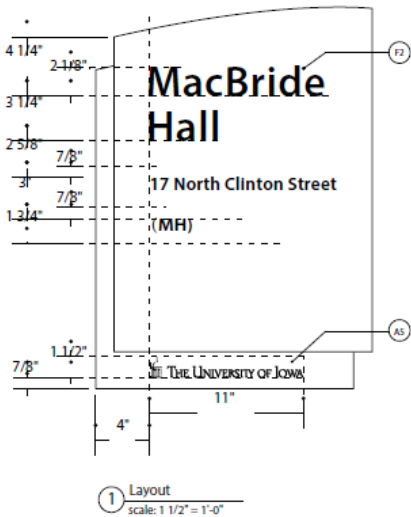
THIS DRAWING REPRESENTS DESIGN INTENT ONLY. FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

EXTERIOR SIGNAGE DETAILS - Continued

LAYOUT GUIDELINES

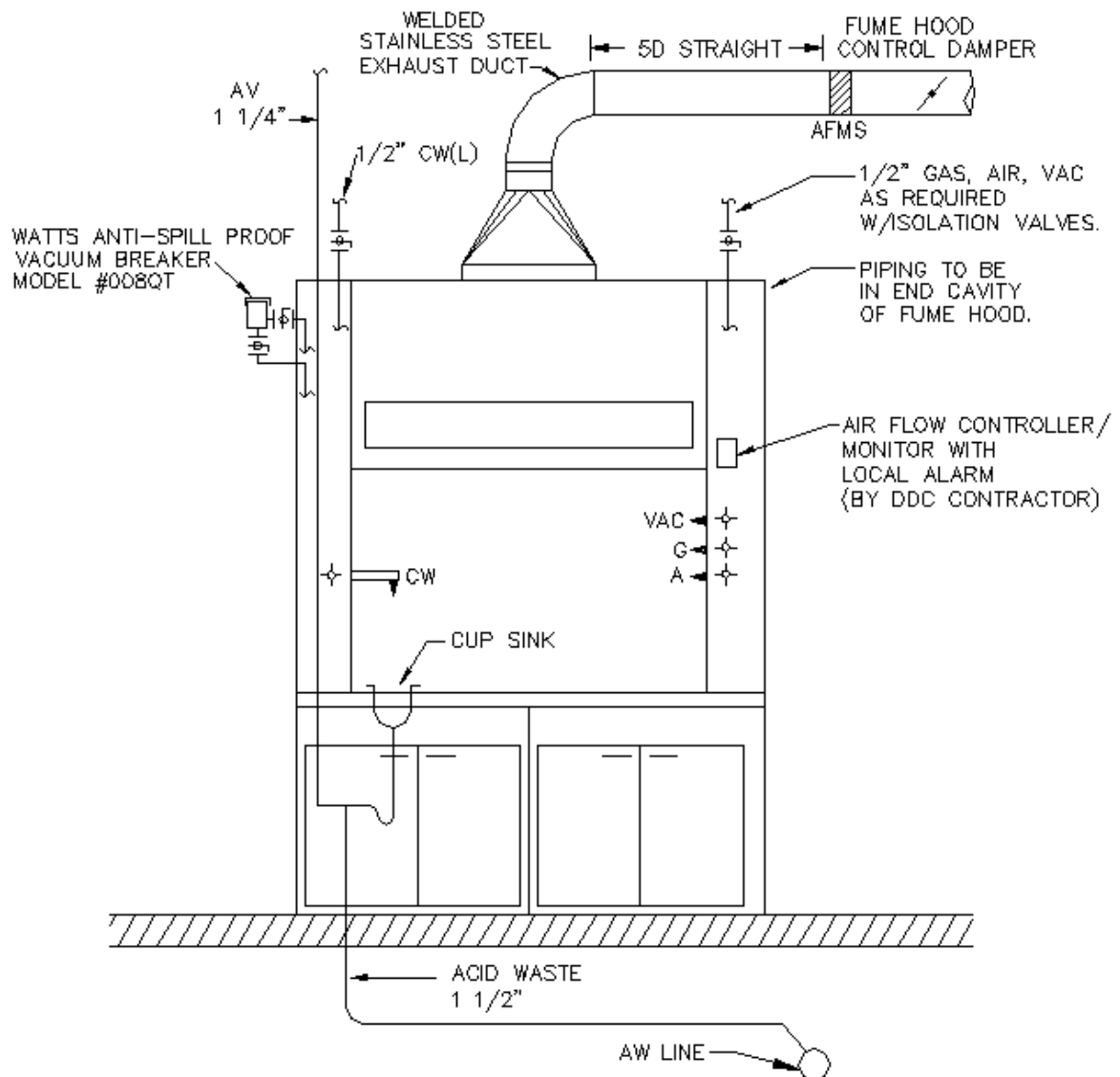
Building ID - Wall Mounted - Large

Note: All panels and other unique sign component shapes shall be provided as full size artwork for each sign type.



THIS DRAWING REPRESENTS DESIGN INTENT ONLY.
FABRICATOR WILL BE RESPONSIBLE TO VERIFY ALL
CONDITIONS IN FIELD PRIOR TO SHOP DRAWINGS

FUME HOOD INSTALLATION DETAIL

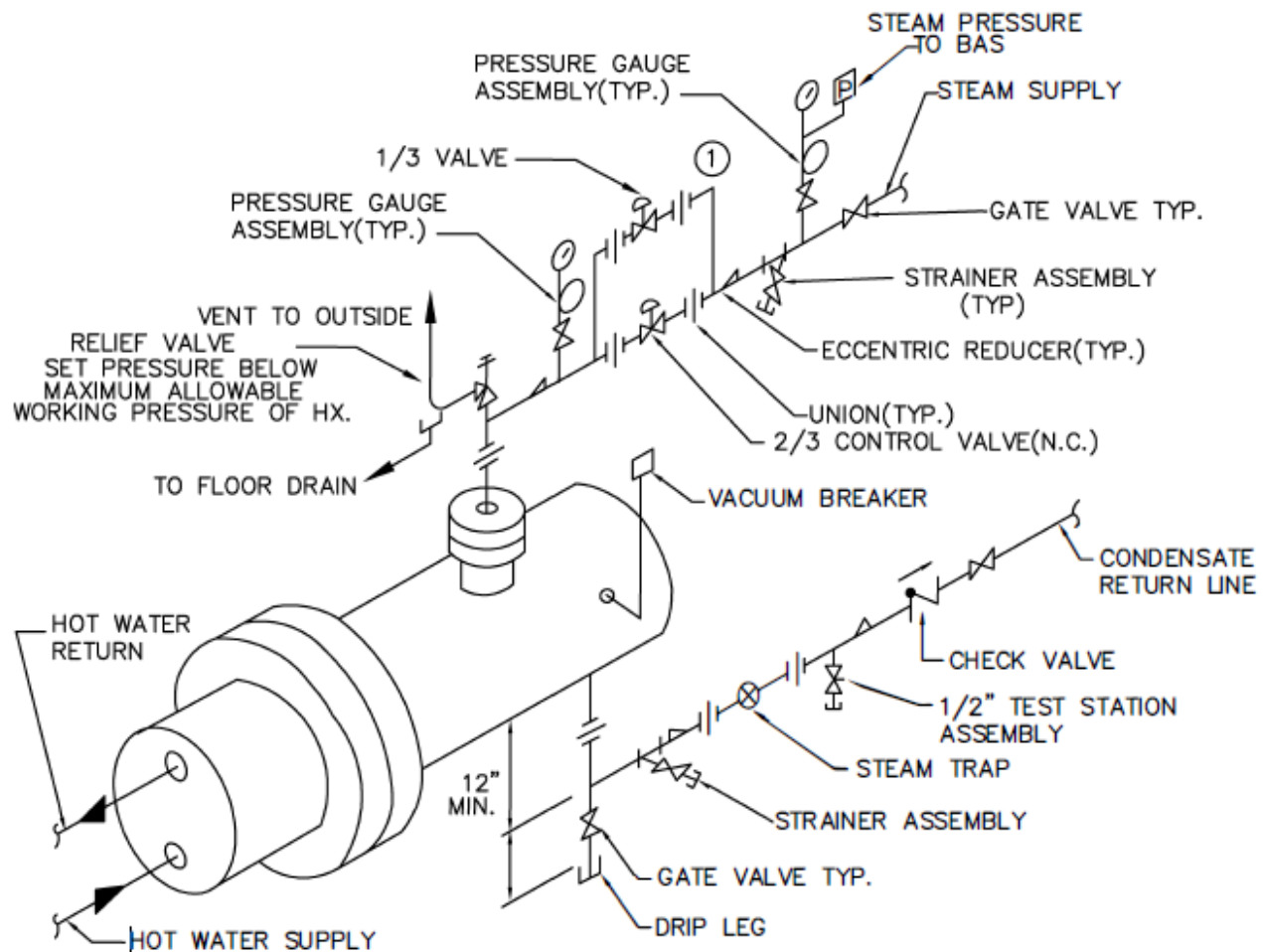


- NOTES:
1. TYPICAL FUMEHOOD INSTALLATION INDICATED, REFER TO PLANS AND FUME HOOD SUPPLIER SHOP DRAWINGS FOR SPECIFIC REQUIREMENTS.
 2. LAB UTILITY FIXTURES FURNISHED AND PRE PIPED BY FUMEHOOD SUPPLIER. ACID WASTE AND VENT PIPING BY CONTRACTOR.
 3. CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS AND INDICATED VALVING.
 4. PIPE VACUUM BREAKER ON OUTLET SIDE OF CW VALVE. ROUTE PIPING IN THE SIDE WALL OF FUMEHOOD. MOUNT VACUUM BREAKER ON EXTERIOR OF FUME HOOD ON THE SIDE OF FRONT CORNER POST IN AN ACCESSABLE LOCATION, BELOW CEILING.
 5. CONFIRM LOCATION OF UTILITY CONNECTION SHOWN ON PLANS WITH ARCHITECTURAL AND APPROVED CASEWORK SHOP DRAWINGS.

NOTES TO DESIGNER:

1. WHEN ONE SIDE OF HOOD IS AGAINST A WALL OR OBSTRUCTION LOCATE ALL LAB UTILITY FIXTURES AND CONTROLS ON THE OPEN SIDE.
2. PROVIDE A MINIMUM AIRFLOW OF 40 CFM PER LINEAR FOOT OF HOOD WIDTH (NFPA 45). COORDINATE WITH FUME HOOD MANUFACTURER AND FUME HOOD CONTROL REQUIREMENTS.

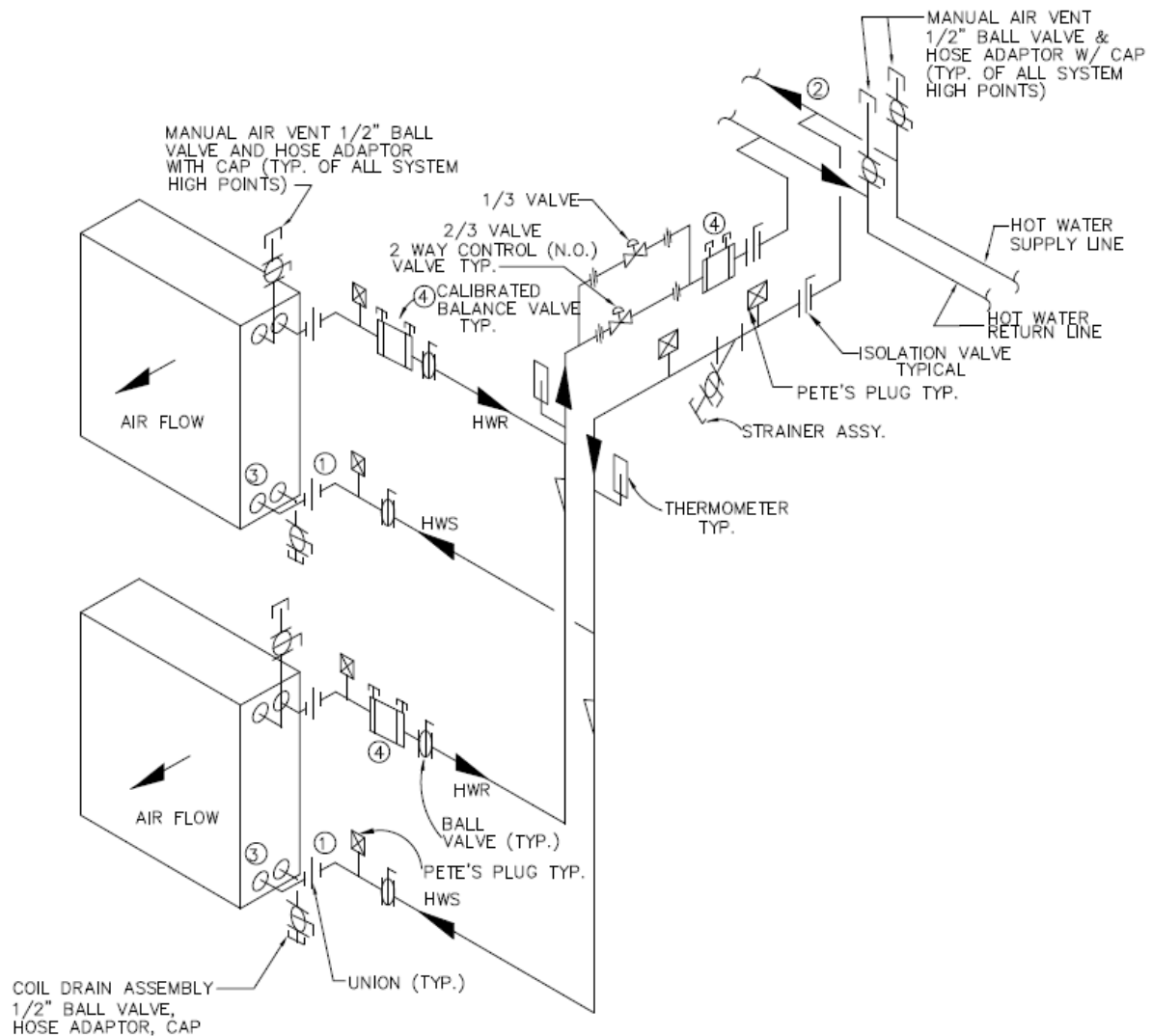
HOT WATER CONVERTOR STEAM AND CONDENSATE PIPING DETAIL



① ALL STEAM VALVES SHALL UTILIZE A 1/3–2/3 CONTROL VALVE ARRANGEMENT AND BE CAPABLE OF OPERATING AT BUILDING PEAK AND MINIMUM HEATING LOADS. IF A 1/3-2/3 VALVE ARRANGEMENT IS NOT CAPABLE OF MEETING THIS PERFORMANCE RANGE, A 3– VALVE ARRANGEMENT SHALL BE UTILIZED.

NOTE: ALL CONTROL VALAVES SHALL BE BRONZE GLOBE VALAVES WITH STAINLESS STEEL SEATS AND DISCS RATED @ 30 PSIG AND 330 DEGREES FOR STEAM.

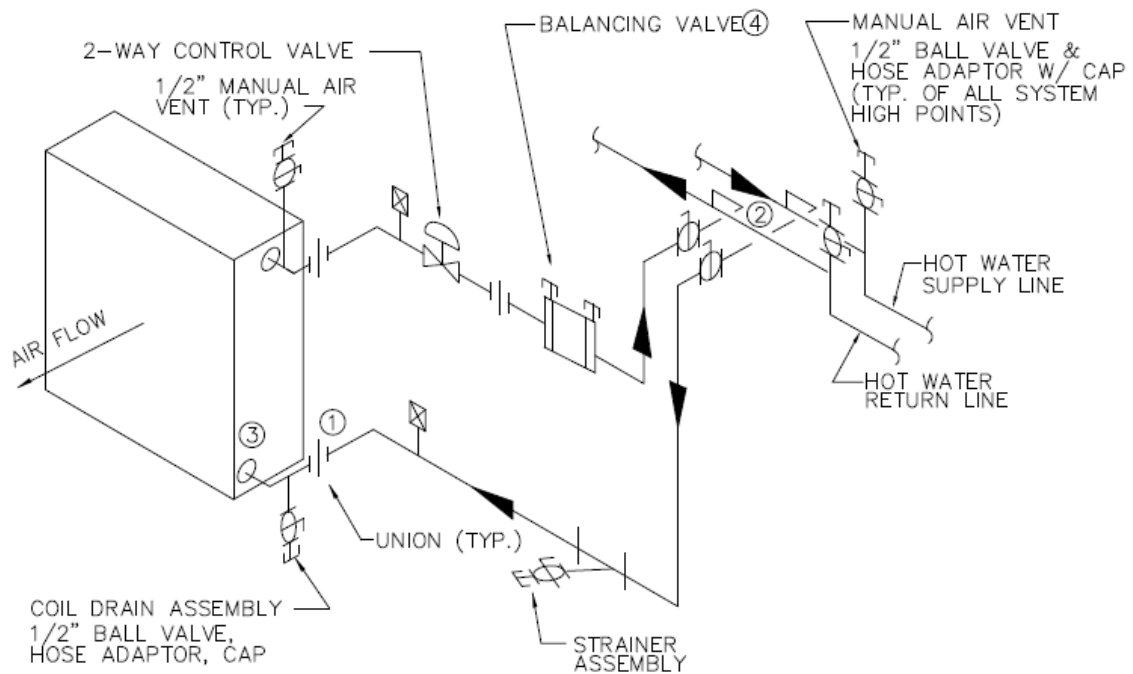
HOT WATER (GLYCOL) PREHEAT COIL PIPING DETAIL



NOTES:

- ① INSTALL PIPING AND UNIONS TO ALLOW FOR COIL REMOVAL.
- ② BRANCH LINES TO BE OFF SIDE OR TOP OF SUPPLY/RETURN MAINS.
- ③ PIPE MULTIROW COILS FOR COUNTER FLOW THROUGH COIL.
- ④ CALIBRATED BALANCE VALVES SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS PROVIDING ACCURATE MEASUREMENT OF THE FLOW DESIGNED FOR THE COIL. (TYP) BALANCE VALVES SHALL BE ORIENTED SO THAT TEST PORTS ARE ON THE SIDE OR TOP OF THE DEVICE WITH A MINIMUM OF FOUR INCHES CLEARANCE TO ACCESS PORT ENDS. (TYP)
- ⑤ UNITS 3,000 CFM AND ABOVE MUST USE A 1/3 - 2/3 VALVE ARRANGEMENT.

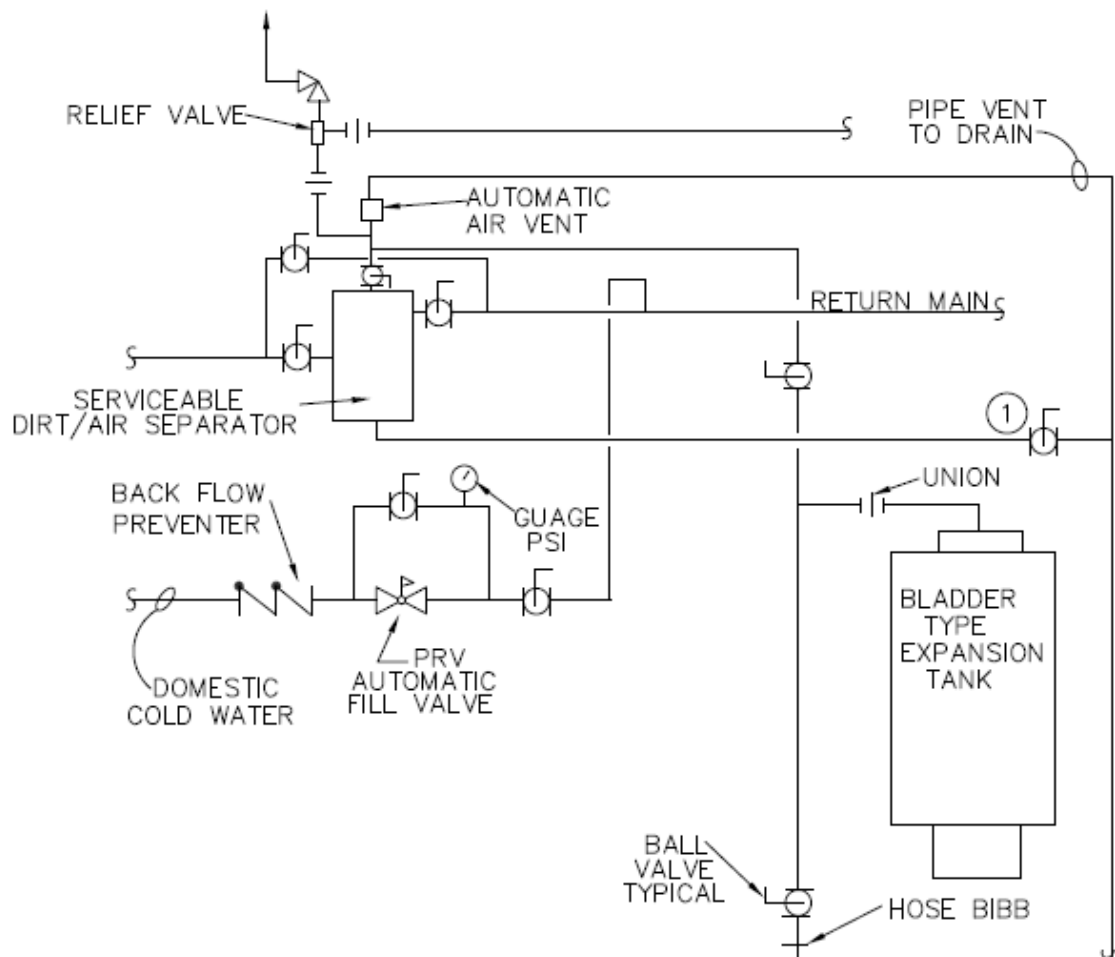
HOT WATER REHEAT COIL PIPING (2-WAY VALVE) DETAIL



NOTES:

- ① INSTALL PIPING AND UNIONS TO ALLOW FOR COIL REMOVAL.
- ② BRANCH LINES TO BE OFF SIDE OR TOP OF SUPPLY/RETURN MAINS.
- ③ PIPE MULTIROW COILS FOR COUNTER FLOW THROUGH COIL.
- ④ CALIBRATED BALANCE VALVES SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS PROVIDING ACCURATE MEASUREMENT OF THE FLOW DESIGNED FOR THE COIL. (TYP)
BALANCE VALVES SHALL BE ORIENTED SO THAT TEST PORTS ARE ON THE SIDE OR TOP OF THE DEVICE WITH A MINIMUM OF FOUR INCHES CLEARANCE TO ACCESS PORT ENDS. (TYP)

HYDRONIC SYSTEM EXPANSION TANK DETAIL



- ① VALVE MUST BE LOCATED SO IT CAN BE ACCESSIBLE WITHOUT THE AID OF A LADDER.

CALCULATING EXPANSION TANK CHARGE PRESSURE:

- RISER HEIGHT = DISTANCE IN FEET FROM THE BOTTOM OF THE EXPANSION TANK TO THE HIGHEST POINT OF SYSTEM PIPING ABOVE IT.

$$\left(\frac{\text{RISER HEIGHT IN FEET}}{2.31} \right) + 5 \text{ psi} = \text{EXPANSION TANK BLADDER CHARGE PRESSURE}$$

- MINIMUM CHARGE PRESSURE FOR ALL SYSTEMS SHALL BE AT LEAST 12 PSI.
- EXPANSION TANK BLADDER CHARGE PRESSURE MUST BE SET WITH THE EXPANSION TANK DRAINED OF ALL FLUIDS AND VENTED TO ATMOSPHERE.
- THE EXPANSION TANK CHARGE PRESSURE WILL ALSO BE THE PRESSURE SET FOR THE AUTOMATIC FILL VALVE ON THE SYSTEM.

INTERIOR SIGNAGE DETAILS

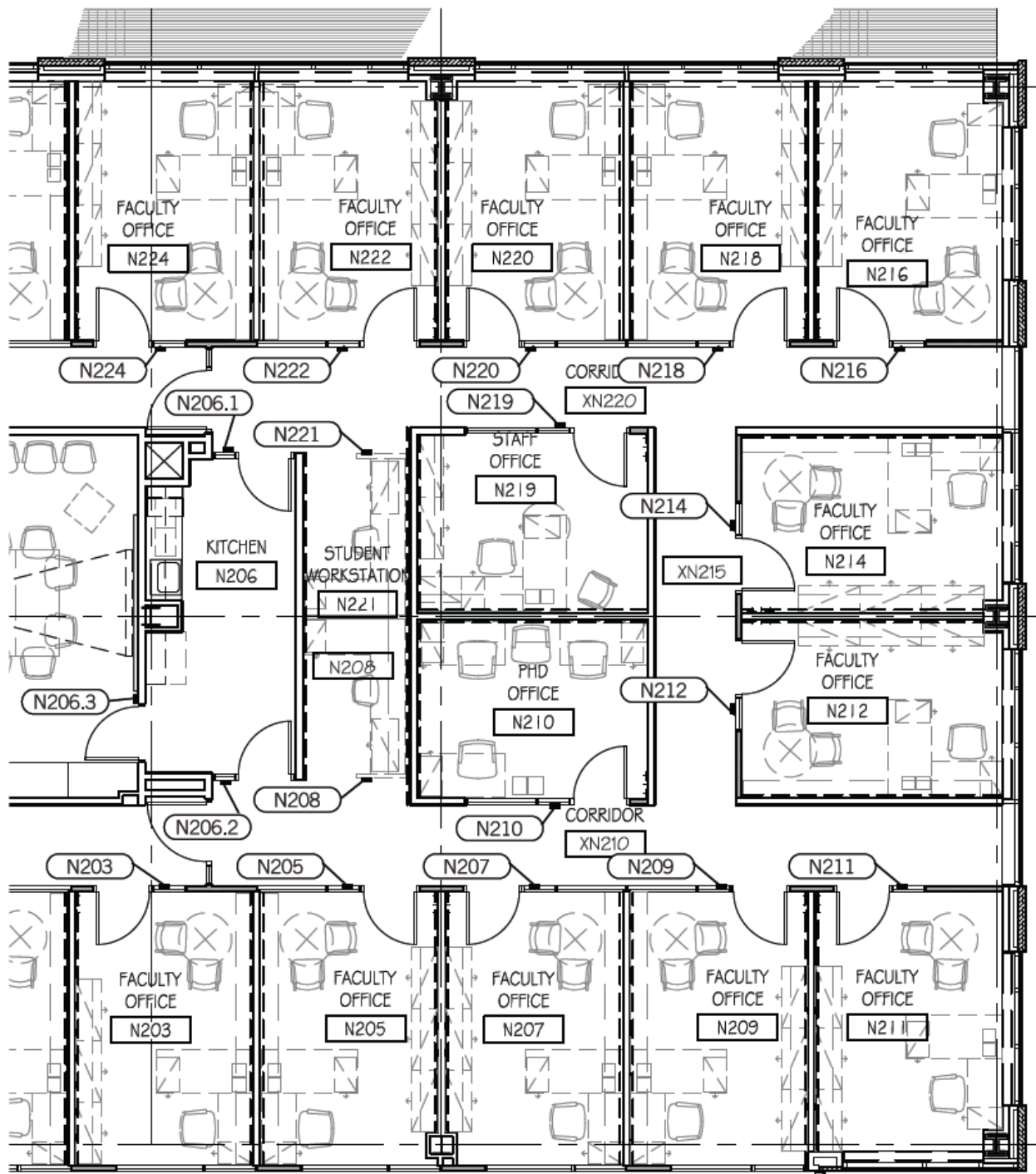


FIGURE 1 – SIGN LOCATION PLAN

INTERIOR SIGNAGE DETAILS - Continued

Code Number	Sign Type	Message	Notes
XN125	H	(no number) A(U) (access symbol) To Front Row Wheelchair Seating	
N130	H	N130 Mail	
N138	H	N138 Electrical	
N140	CS.1	Information Technology	window
N140	G	N140	window
N141	I	N141 (insert)	window
N148A	I	N148A (insert)	window
N148B	I	N148B (insert)	window
N148C	I	N148C (insert)	window
N148D	I	N148D (insert)	window
N148E	I	N148E (insert)	window
N148F	I	N148F (insert)	window
N148G	I	N148G (insert)	
N160	N	N160 Meeting Room (insert)	window
N170	CS.1	Accounting and Finance Facilities Human Resources	window
N170	G	N170	window

FIGURE 2 – SIGN SCHEDULE

INTERIOR SIGNAGE DETAILS - Continued

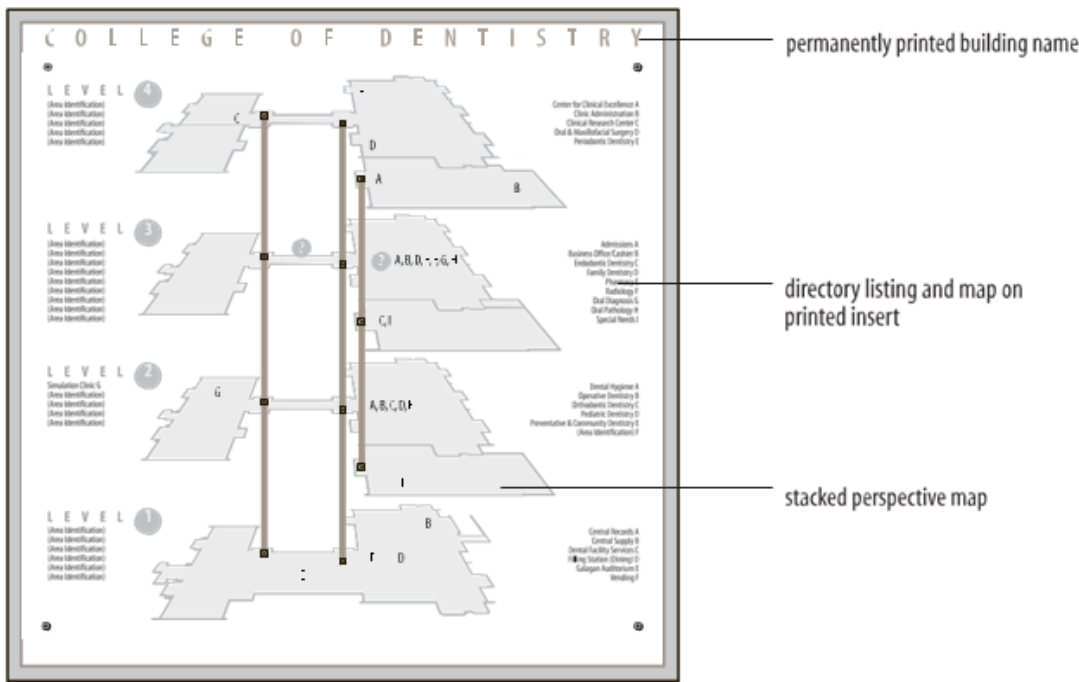


EXHIBIT 1 – SIGN TYPE DIRECTORY



EXHIBIT 2 – SIGN TYPE ELEVATOR DIRECTORY

INTERIOR SIGNAGE DETAILS- Continued

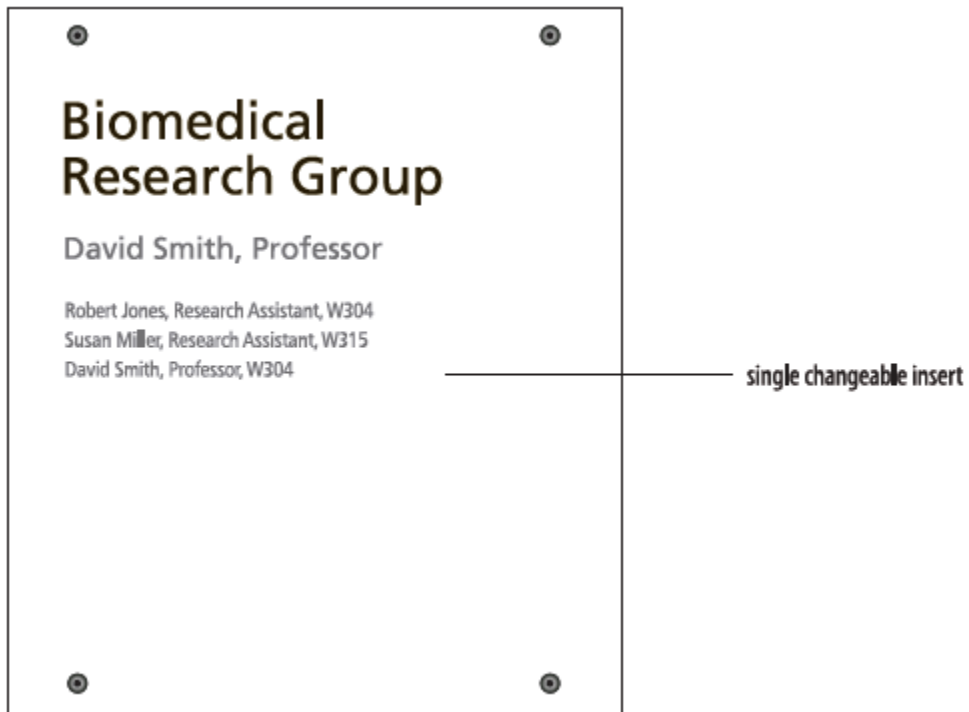


EXHIBIT 3 – SIGN TYPE DEPARTMENT DIRECTORY

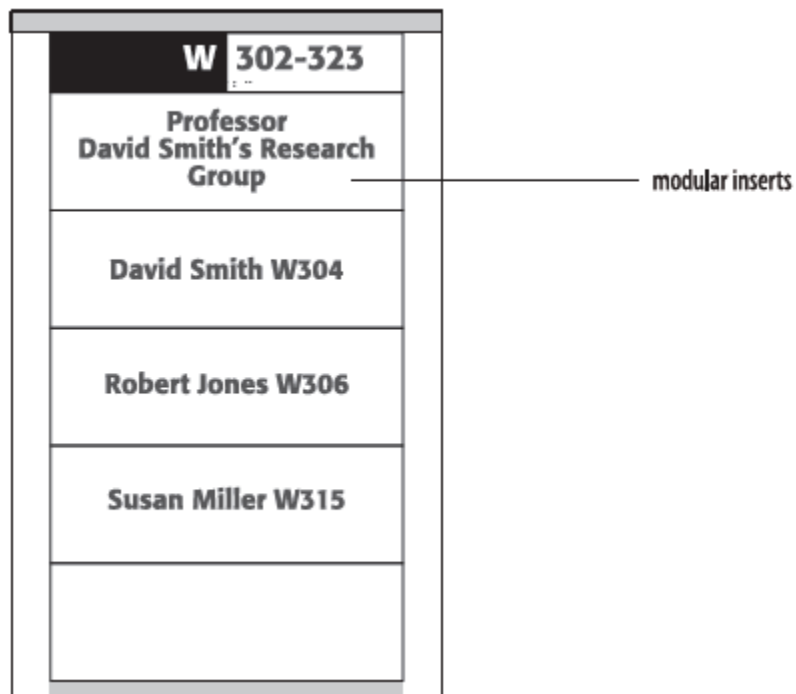


EXHIBIT 4 – SIGN TYPE DEPARTMENT DIRECTORY

INTERIOR SIGNAGE DETAILS - Continued



EXHIBIT 5 – SIGN TYPE OVERHEAD DIRECTIONAL

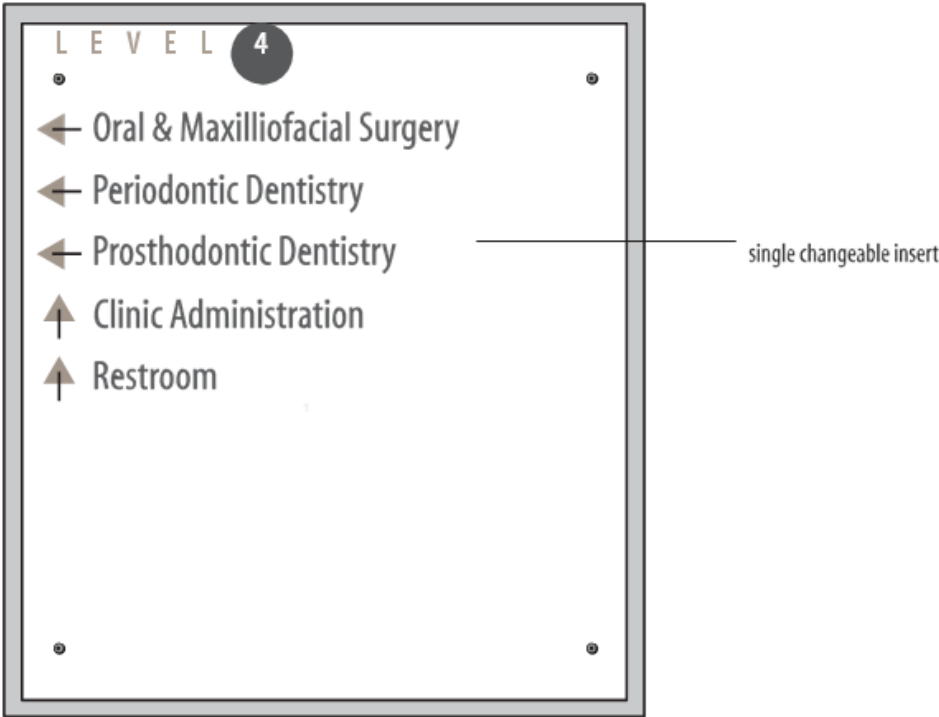


EXHIBIT 6 – SIGN TYPE WALL MOUNT DIRECTIONAL

INTERIOR SIGNAGE DETAILS - Continued

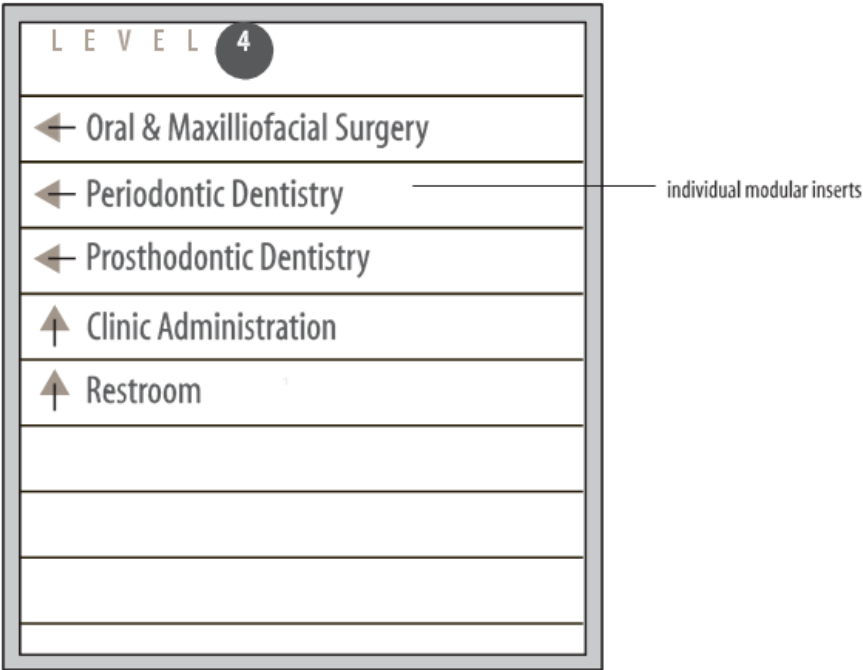


EXHIBIT 7 – SIGN TYPE WALL MOUNT DIRECTIONAL

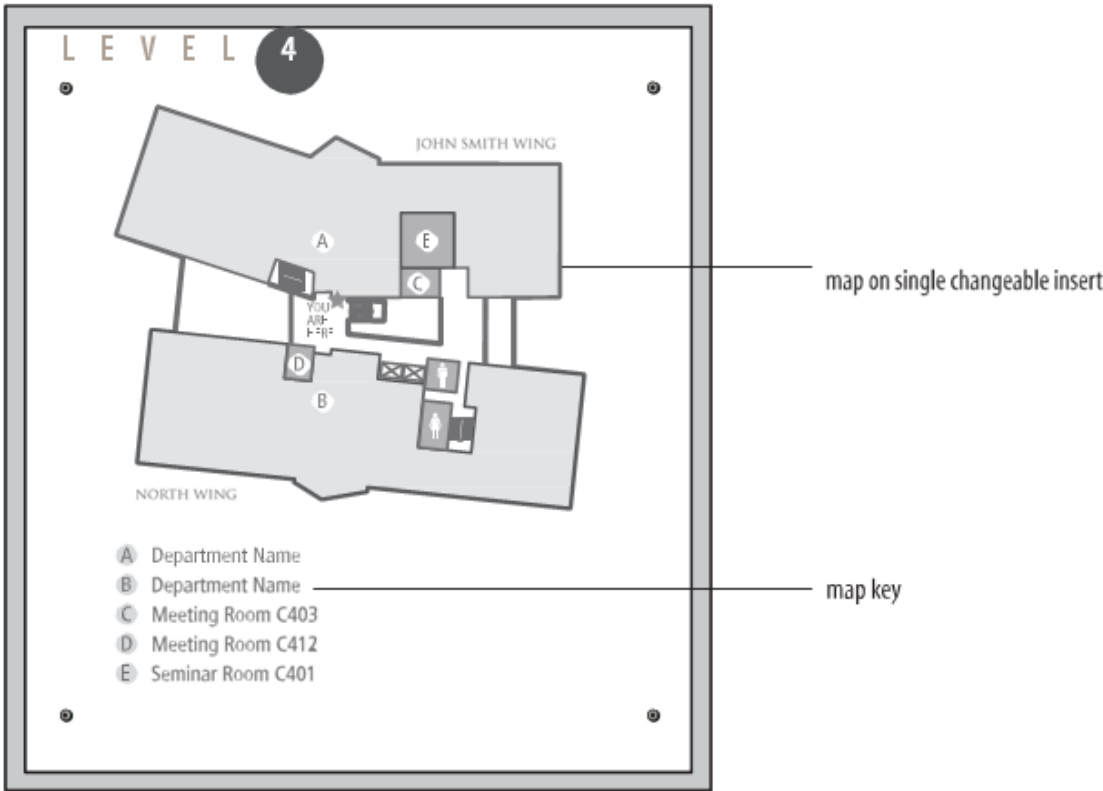


EXHIBIT 8 – SIGN TYPE WALL MOUNT DIRECTIONAL

INTERIOR SIGNAGE DETAILS - Continued

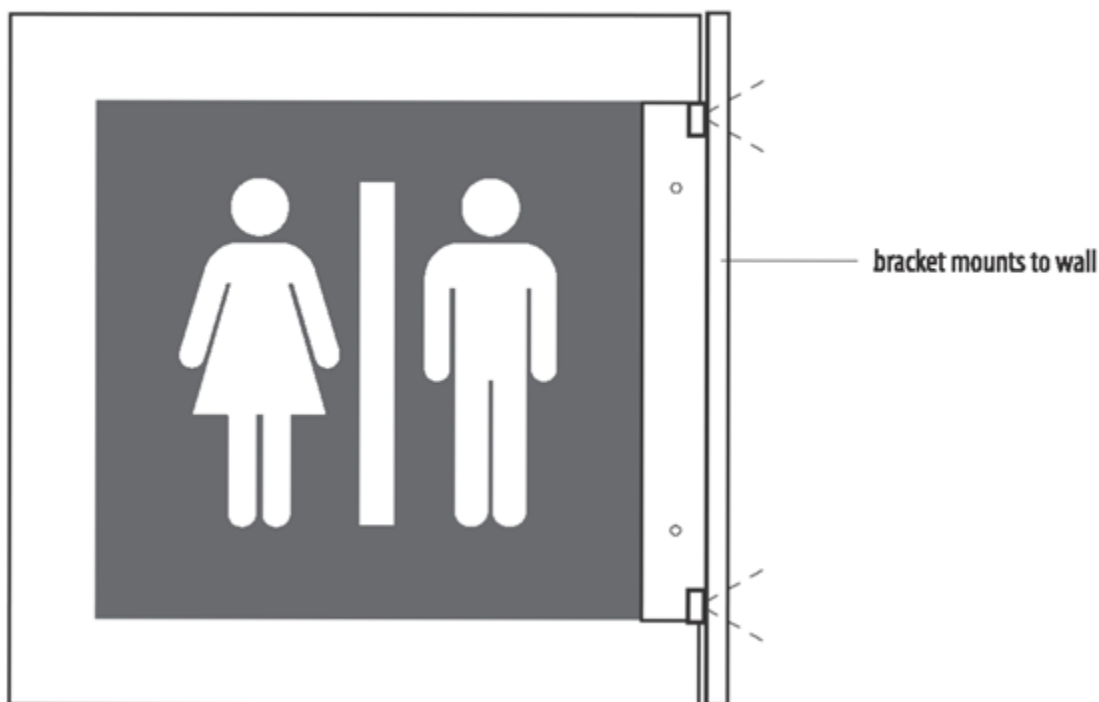


EXHIBIT 9 – SIGN TYPE PROJECTING FLAG IDENTIFICATION

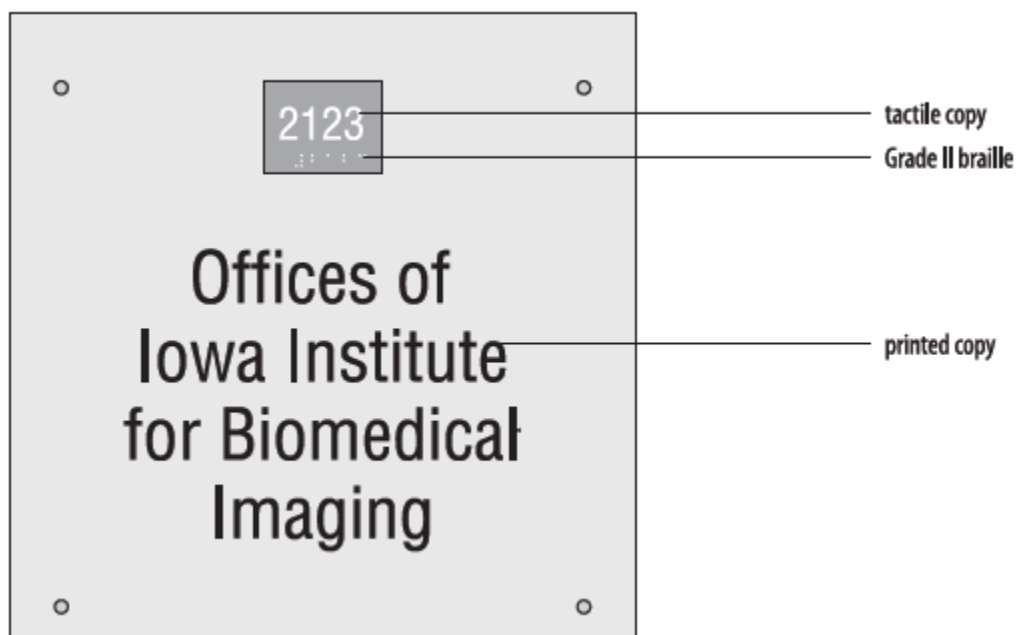


EXHIBIT 10 – SIGN TYPE DEPARTMENT IDENTIFICATION PLAQUE

INTERIOR SIGNAGE DETAILS - Continued

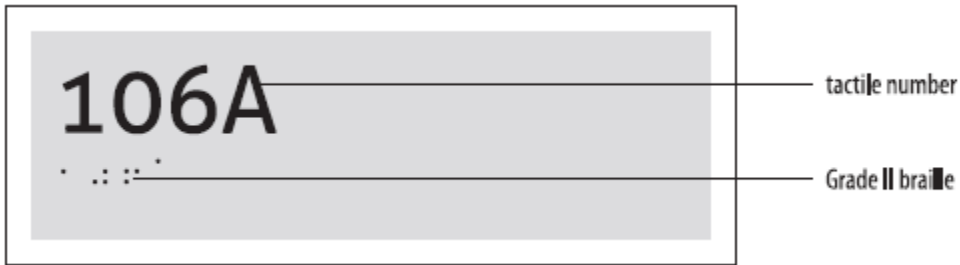


EXHIBIT 11 – SIGN TYPE ROOM NUMBER

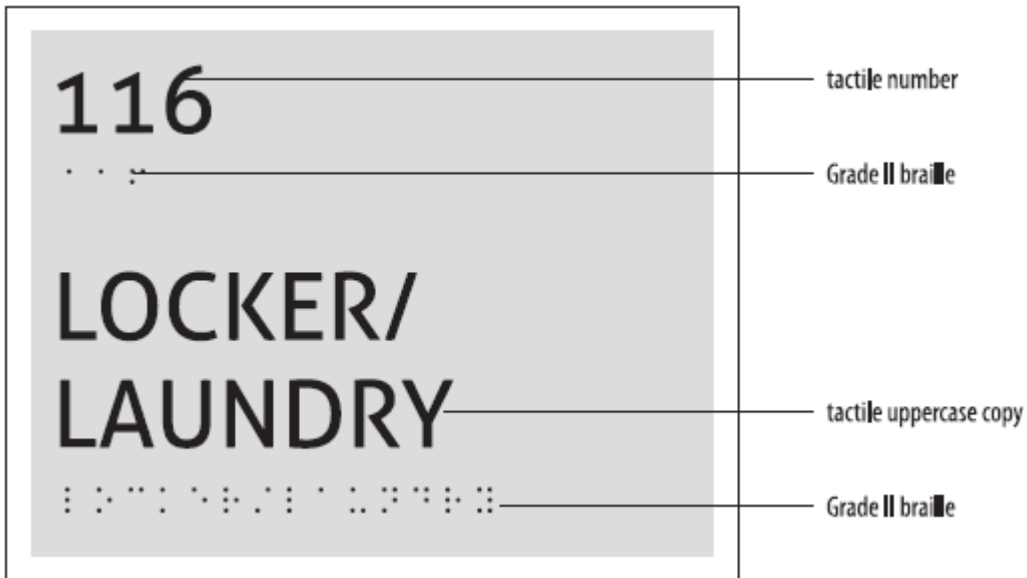


EXHIBIT 12 – SIGN TYPE ROOM IDENTIFICATION

INTERIOR SIGNAGE DETAILS - Continued

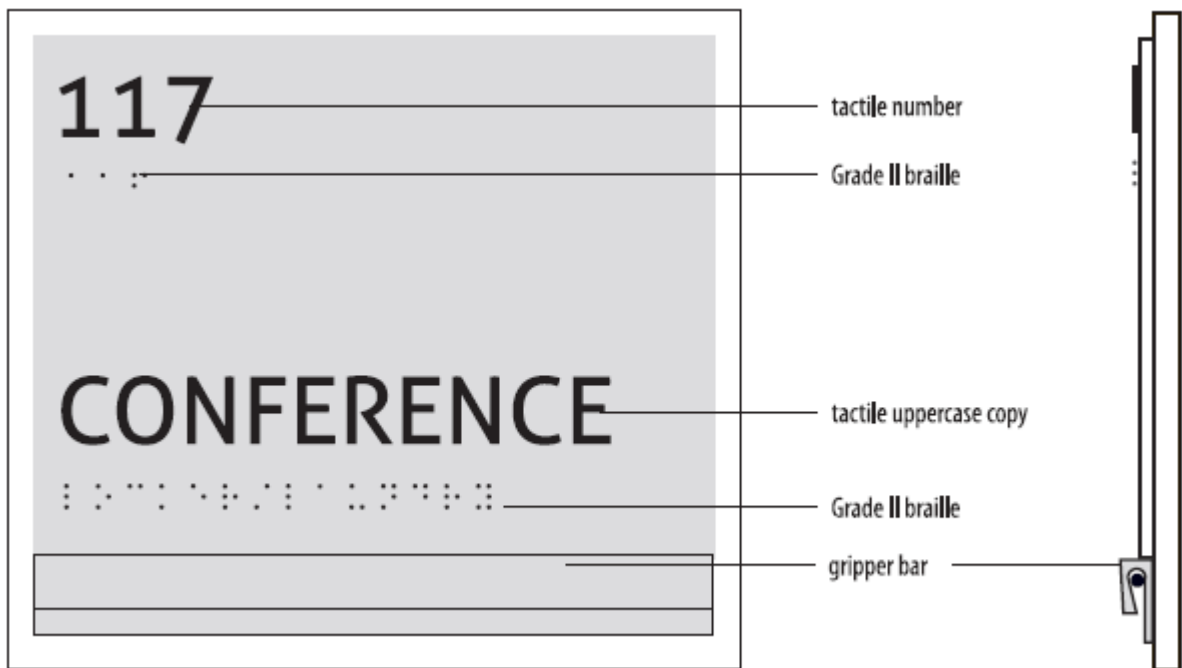


EXHIBIT 13 – SIGN TYPE CONFERENCE ROOM IDENTIFICATION

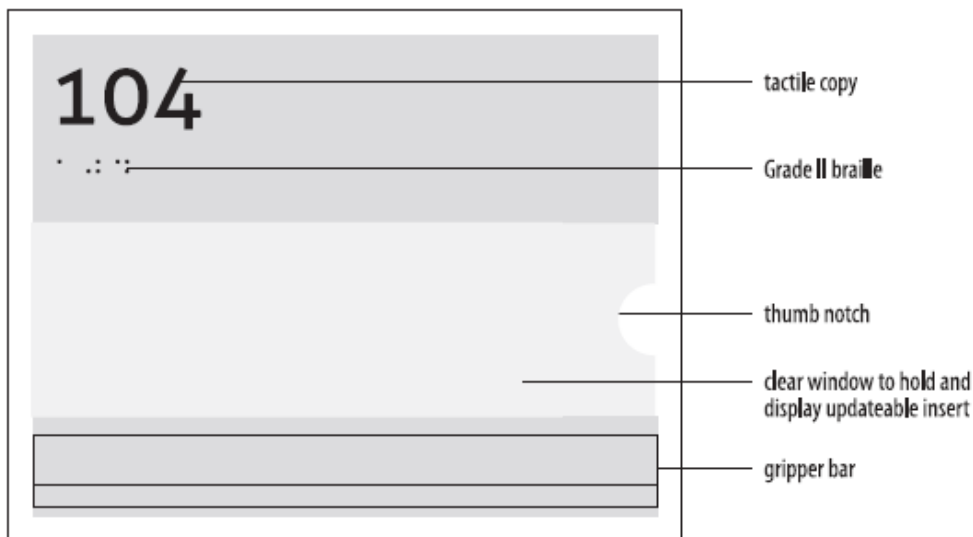


EXHIBIT 14 – SIGN TYPE OFFICE IDENTIFICATION

INTERIOR SIGNAGE DETAILS - Continued

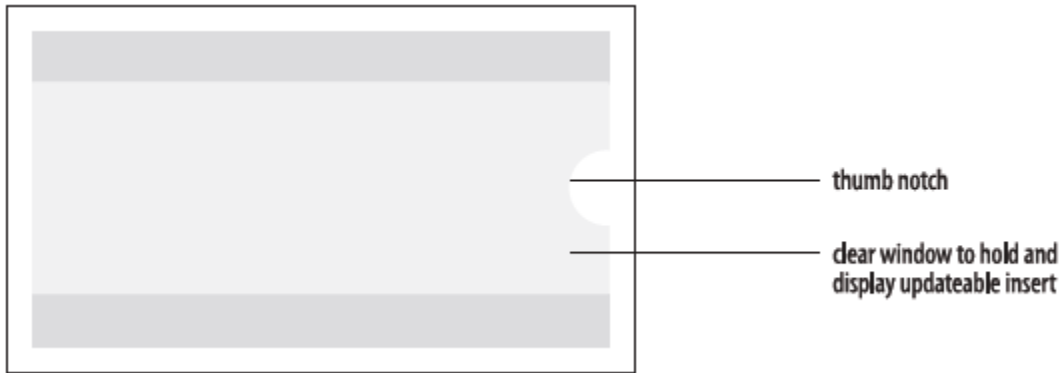


EXHIBIT 15 – SIGN TYPE OPEN OFFICE WORK STATION IDENTIFICATION

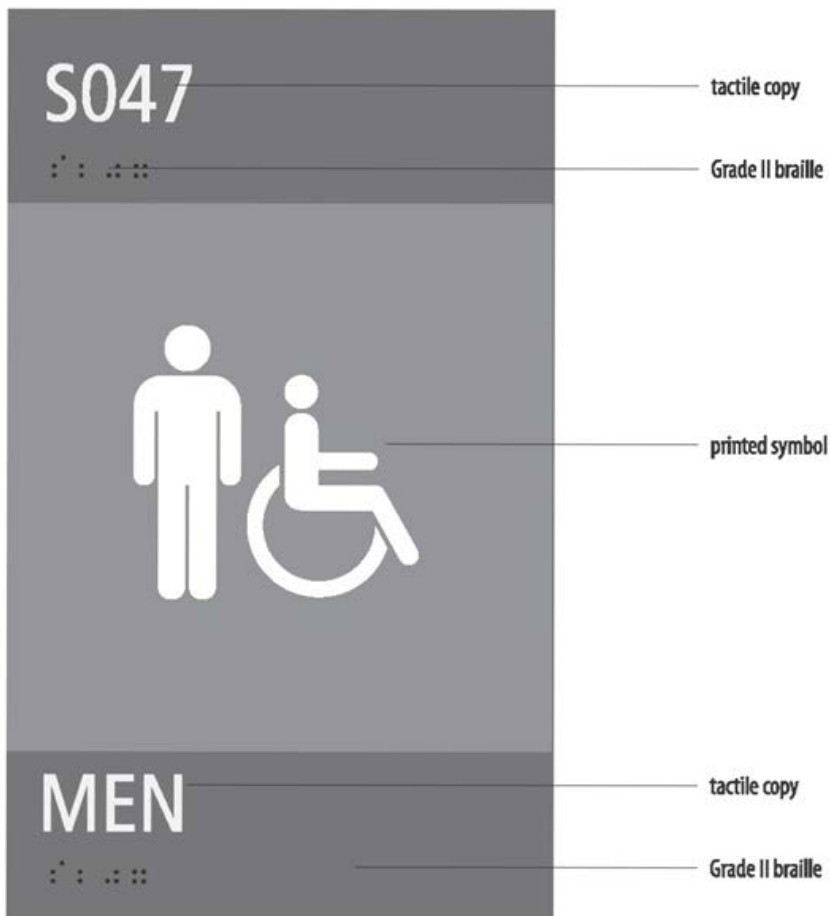


EXHIBIT 16 – SIGN TYPE SYMBOL IDENTIFICATION

INTERIOR SIGNAGE DETAILS - Continued



EXHIBIT 16A – SIGN TYPE MULTIPLE SYMBOL IDENTIFICATION

**Baby Diaper Change symbol and Accessible symbol should only be included if applicable*

INTERIOR SIGNAGE DETAILS - Continued

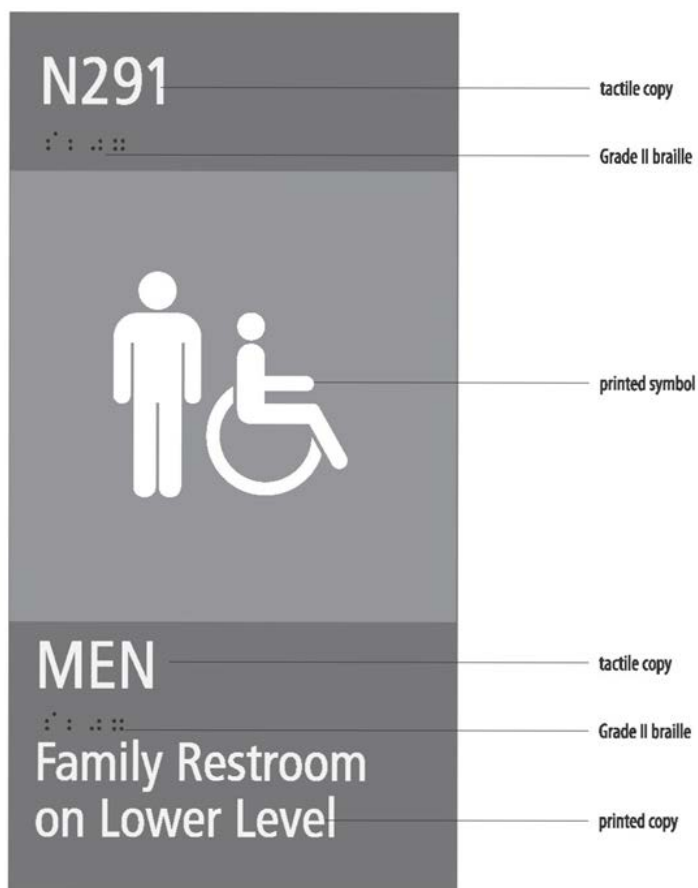


EXHIBIT 17 – SIGN TYPE LARGE SYMBOL IDENTIFICATION



EXHIBIT 18 – SIGN TYPE ENTRANCE NUMBER PLAQUE

INTERIOR SIGNAGE DETAILS- Continued

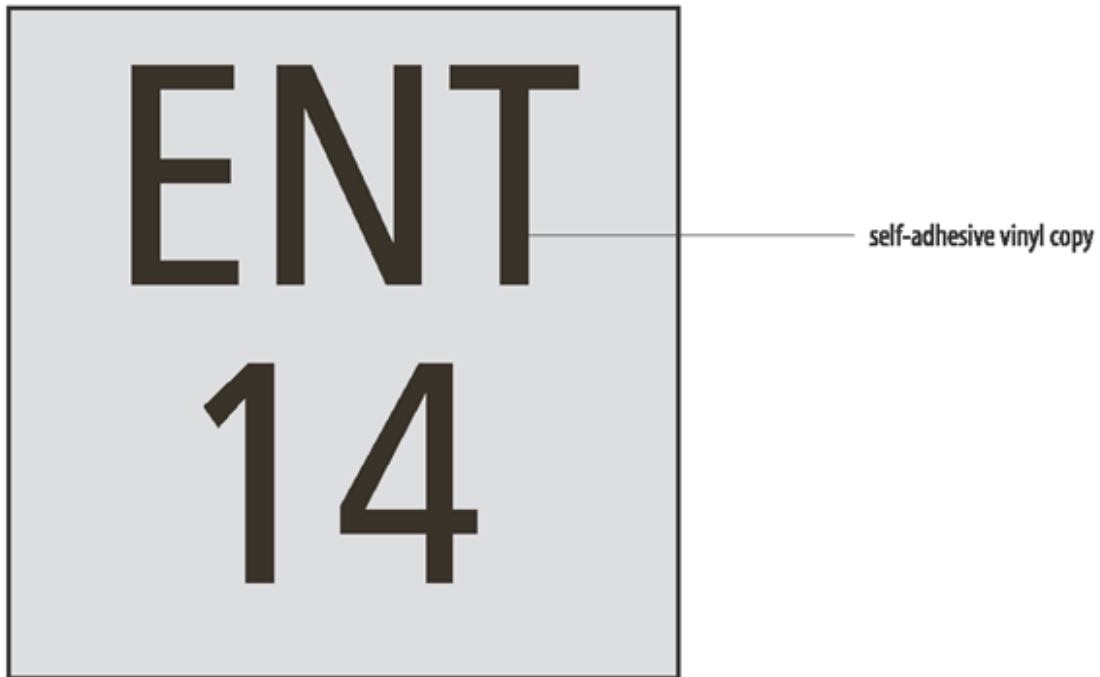


EXHIBIT 19 – SIGN TYPE LOADING DOCK ENTRANCE NUMBER PLAQUE

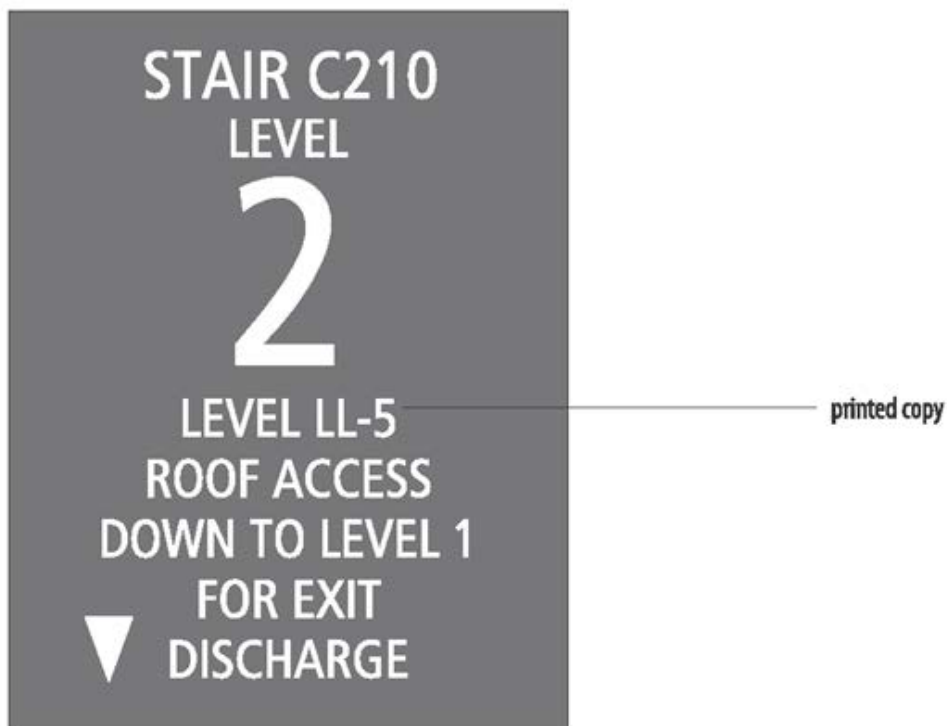
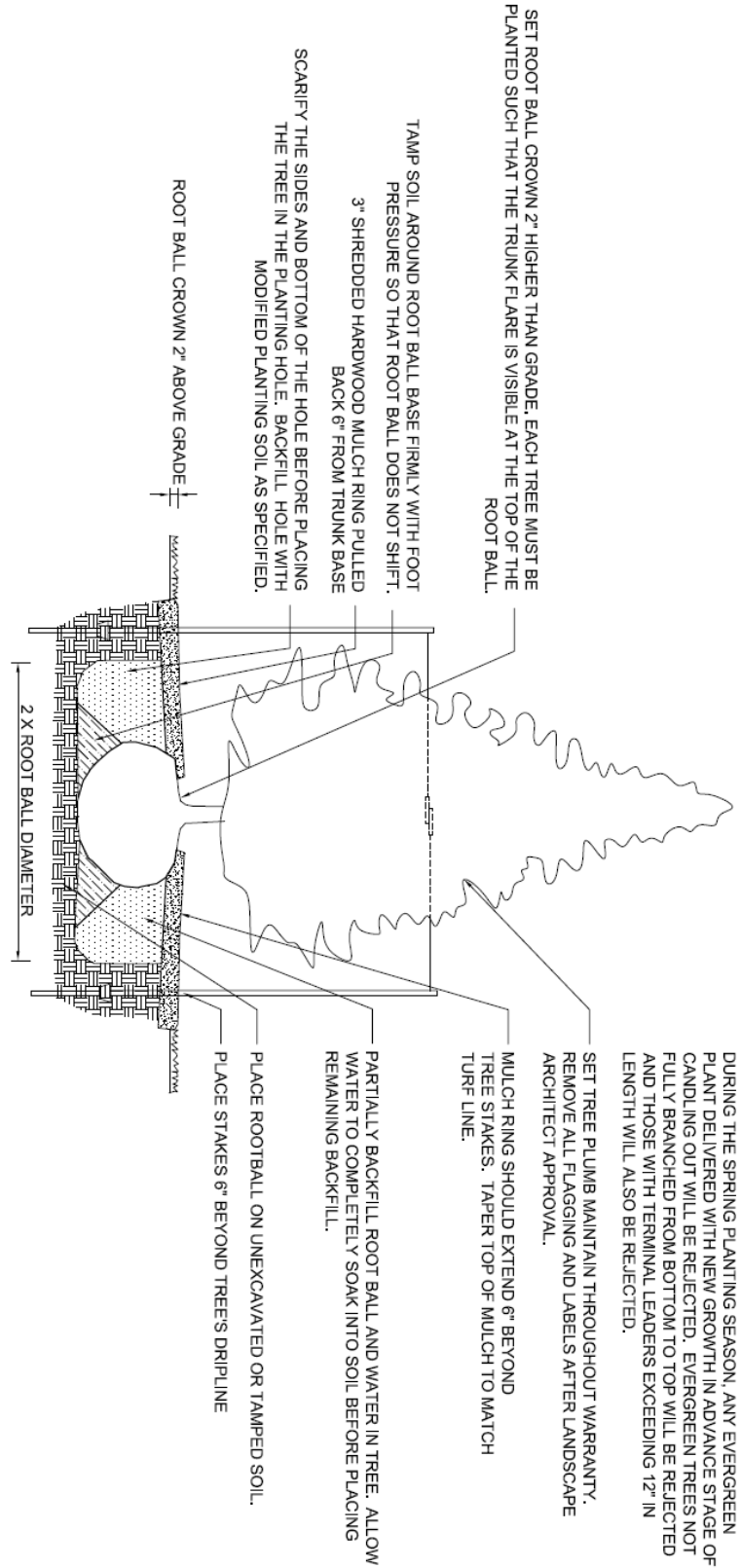
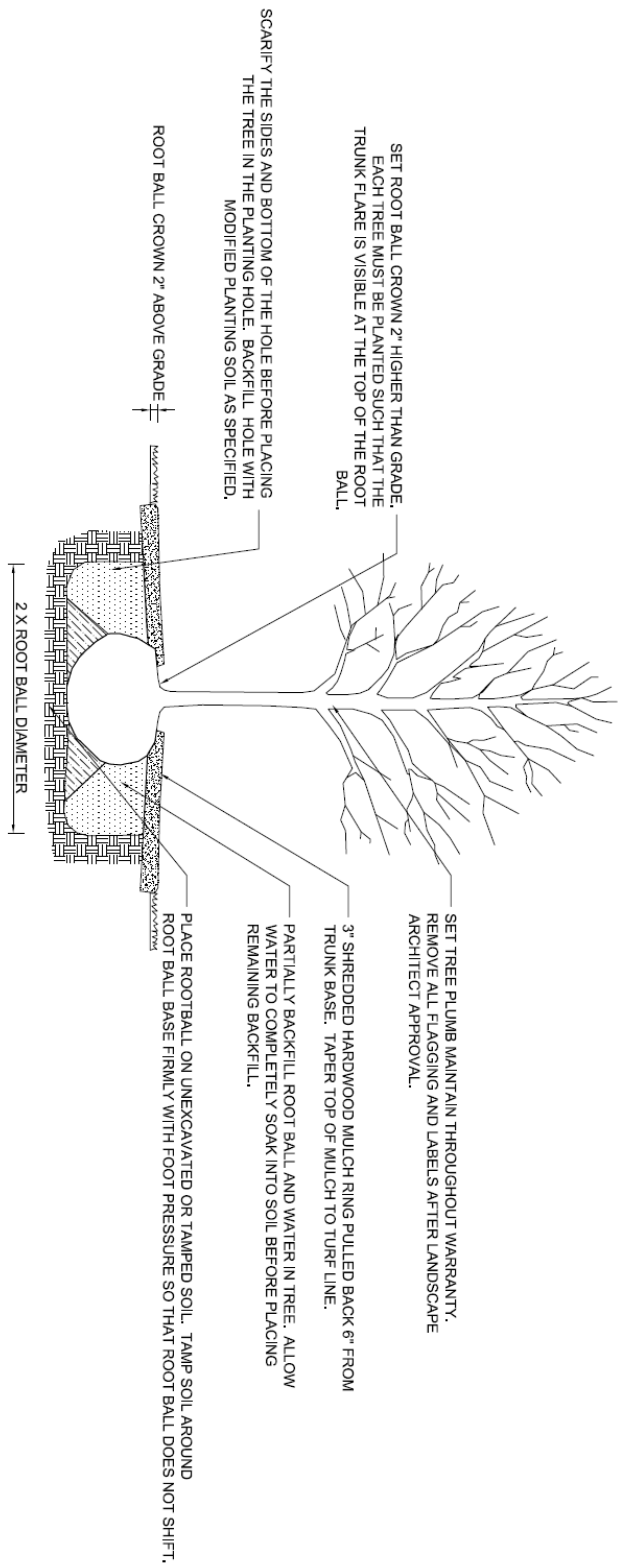


EXHIBIT 20 – SIGN TYPE CODE SPECIFIED INFORMATION

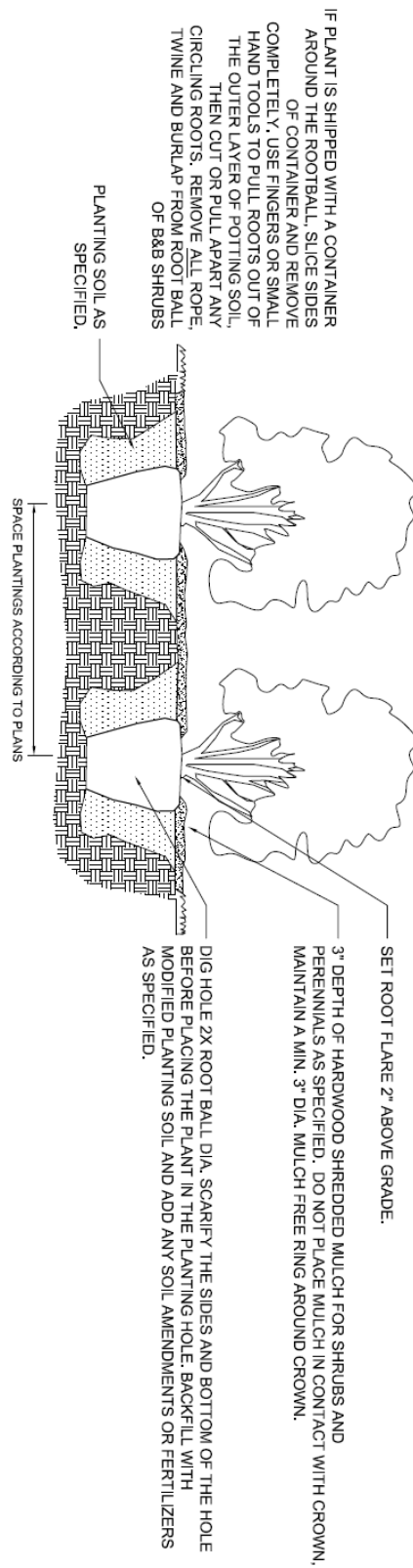
LANDSCAPING PLANTING DETAIL: CONIFEROUS TREE



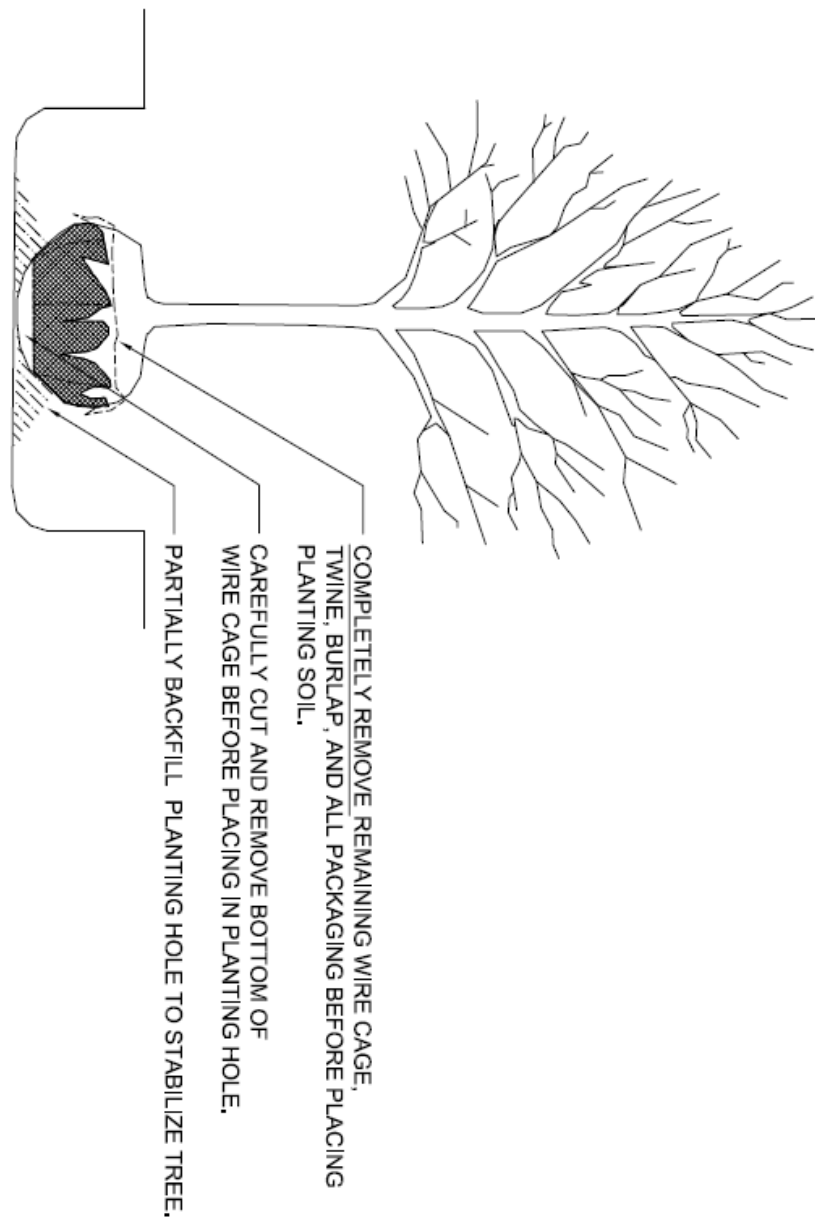
LANDSCAPING PLANTING DETAIL: DECIDUOUS TREE



LANDSCAPING PLANTING DETAIL: SHRUB

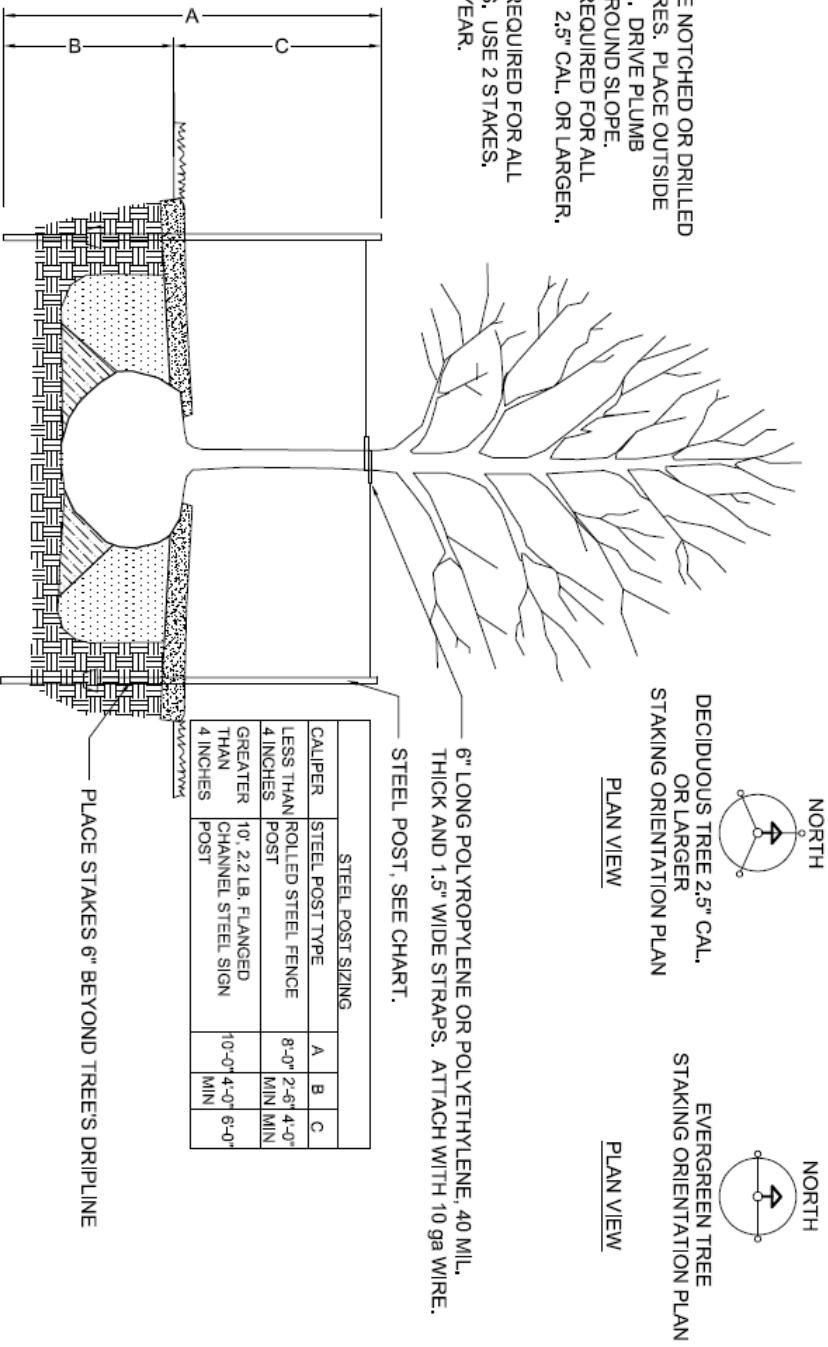


LANDSCAPING PLANTING DETAIL: ROOT BALL INSTALLATION

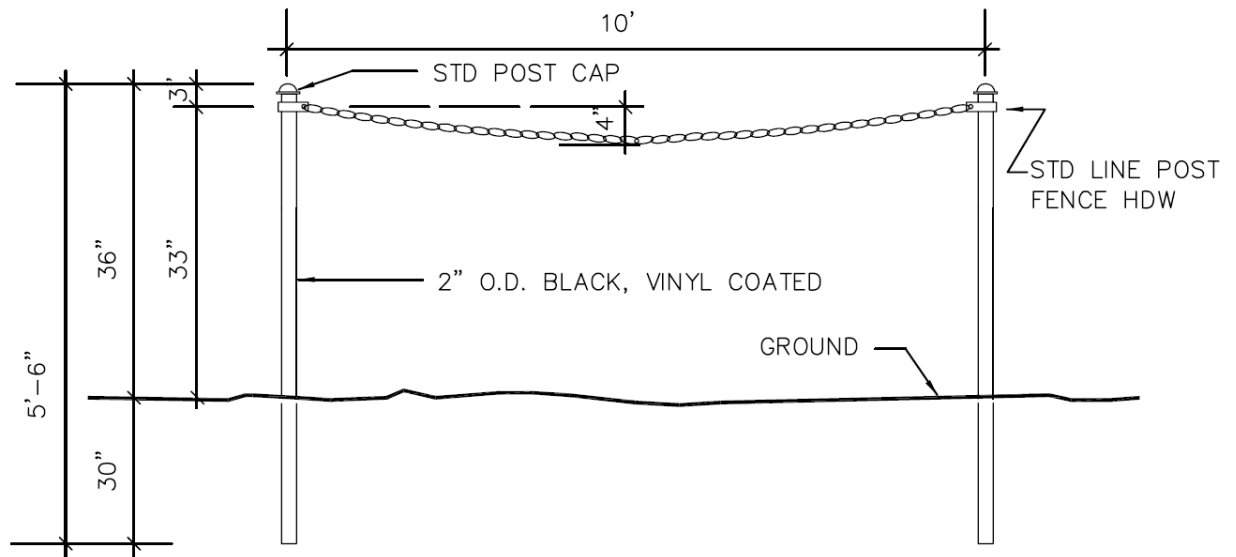


LANDSCAPING PLANTING DETAIL: TREE STAKING

- NOTES:
- 1. STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF PLANTING HOLE. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
 - 3. TREE STAKING IS REQUIRED FOR ALL DECIDUOUS TREES 2.5" CAL. OR LARGER. USE 3 STAKES.
 - 4. TREE STAKING IS REQUIRED FOR ALL EVERGREEN TREES. USE 2 STAKES.
 - 4. REMOVE WITHIN 1 YEAR.

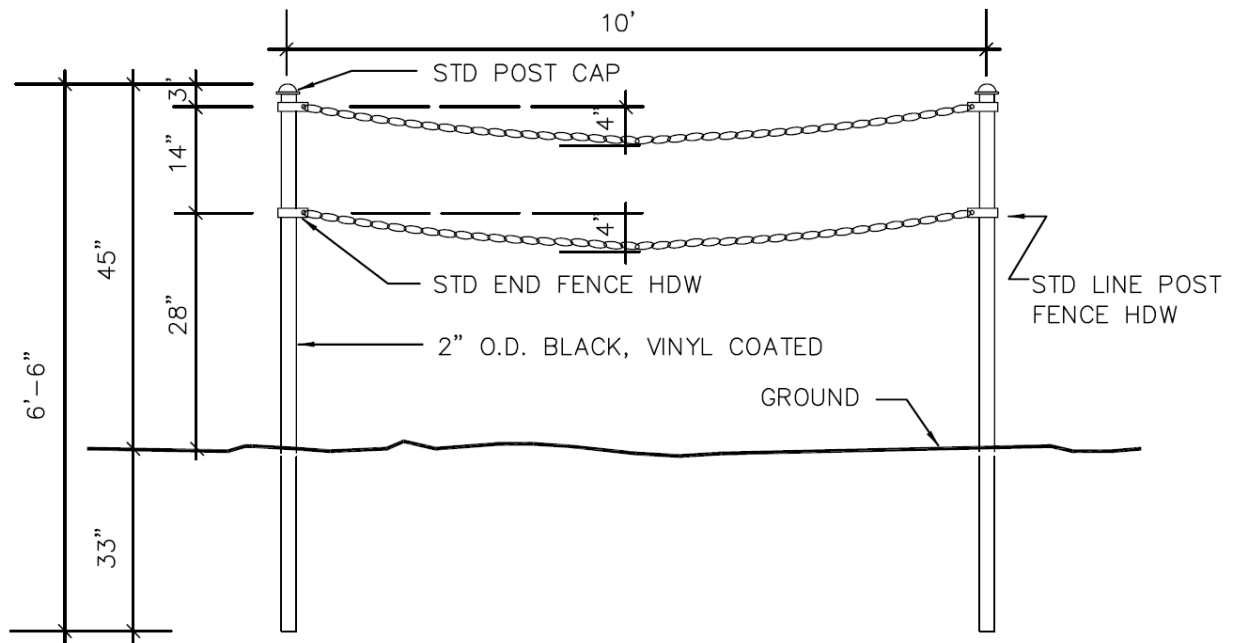


LANDSCAPING POST AND CHAIN FENCE DETAILS



Single Chain

NOTE: POST HEIGHT & CHAIN
SAG TEMPLATES TO BE USED



Double Chain

LANDSCAPING PROHIBITED PLANT LIST

Trees:			
<i>Common Name</i>	<i>Botanical Name</i>	<i>Common Name</i>	<i>Botanical Name</i>
'Autumn Blaze' Maple	Acer hybrid	Norway Maple	Acer platanoides
Tree of Heaven	Ailanthus altissima	Cockspur Hawthorn	Crataegus crusgalli
Russian Olive	Elaeagnus angustifolia	Autumn Olive	Elaeagnus umbellata
All Ash species	Fraxinus sp.	Austrian Pine	Pinus nigra
Cork tree species (female)	Phellodendron sp.	Ginkgo (female cultivars)	Ginkgo biloba
Scotch Pine	Pinus sylvestris	White Poplar	Populus alba
Poplar Hybrids	Populus sp.	Purple leaf Sand cherry	Prunus x cistena
Schubert Cherry	Prunus padus	Black Locust	Robinia pseudoacacia
Buckthorn (non-native species)	Rhamnus sp.	Willow (non-native species)	Salix sp.
Siberian Elm	Ulmus pumila		
Shrubs:			
<i>Common Name</i>	<i>Botanical Name</i>	<i>Common Name</i>	<i>Botanical Name</i>
Barberry	Berberis sp.	Burning Bush	Euonymus alatus
Honeysuckle (non-native species)	Lonicera sp.	European Cranberry Viburnum	Viburnum opulus
Privet species	Ligustrum sp.		
Vines:			
<i>Common Name</i>	<i>Botanical Name</i>	<i>Common Name</i>	<i>Botanical Name</i>
Porcelain berry	Amelopsis brevipedunculata	Oriental Bittersweet	Celastrus orbiculatus
Crown vetch	Coronilla varia		
Perennials:			
<i>Common Name</i>	<i>Botanical Name</i>	<i>Common Name</i>	<i>Botanical Name</i>
Purple Loosestrife	Lythrum salicaria		

LANDSCAPING RECOMMENDED PLANT LIST: CONIFEROUS

Coniferous Trees						
Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Growth
Abies concolor	White Fir	30-50'	15-30'	Full/Part Sun		No clay Slow
Abies nordmanniana	Nordmann Fir	40-60'	12-18'	Full Sun		Average Slow
Metasequoia glyptostroboides	Dawn Redwood	40-50'	20-30'	Full/Part Sun		Dry/Wet Fast
Metasequoia glyptostroboides 'Gold Rush'	Gold Rush Dawn Redwood	40'	40'	Full/Part Sun		Avg/Wet Fast
Picea abies	Norway Spruce	60-80'	25-30'	Full Sun	x	Average Med-Fast
Picea abies 'Fastigiata Compacta'	Norway Columnar Spruce	15-20'	4-8'	Full Sun	x	Average Slow
Picea glauca densata	Black Hills Spruce	30-40'	20-30'	Full/Part Sun	x	Dry Slow
Picea omorika	Serbian Spruce	50'	25'	Full/Part Sun		Average Slow
Picea pungens cultivars	Blue Spruce	40-60'	15-30'	Full Sun	x	Dry/Avg Slow
Pinus flexilis cultivars	Limber Pine	35-45'	30-40'	Full Sun	x	Dry/Avg Medium
Pinus parviflora dwarf cultivars	Japanese Dwarf White Pine	15'	20'	Full Sun	x	Dry/Avg Slow
Pinus strobus	White Pine	50-60'	30-40'	Full/Part Sun		Dry/Avg Fast
Taxodium distichum	Bald Cypress	50-70'	25-30'	Full Sun	x	Dry/Wet Medium
Taxodium distichum 'Shawnee Brave'	Shawnee Brave Cypress	50-70'	20-30'	Full Sun		Dry/Wet Medium

LANDSCAPING RECOMMENDED PLANT LIST: DECIDUOUS

Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Soil	Growth
Acer buergerianum	Trident Maple	25-35'	20-30'	Full Sun	x	Average	Medium
Acer griseum	Paperbark Maple	20-30'	15-25'	Full/Part Sun		Average	Slow-Med
Acer miyabei	Miyabe Maple	40'	30'	Full Sun	x	Average	Med-Fast
Acer palmatum cultivars	Japanese Maple	15'-20'	10-15'	Full/Part Sun		Average	Slow-Med
Acer rubrum cultivars	Red Maple (other than Autumn Blaze)	30-50'	40-50'	Full Sun		Average	Medium
Acer triflorum	Three-flower Maple	20-30'	15-25'	Full/Part Sun		Average	Slow-Med
Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	20-25'	15'	Full/Part Sun	x	Average	Medium
Asimina triloba	Common Paw Paw	25'	15'	Full/Part Sun		Average	Fast
Carpinus caroliniana	American Hornbeam	30'	25'	Full Sun/Shade	x	Dry/Wet	Slow
Celtis occidentalis	Hackberry	50-75'	50'	Full Sun	x	Dry	Fast
Cercis canadensis	Eastern Redbud (single stem)	20-30'	20-30'	Full/Part Sun	x	Average	Medium
Cladrastis lutea	American Yellowwood	25-40'	25-40'	Full Sun	x	Average	Medium
Corylus colurna	Turkish Filbert	50'	30'	Full Sun		Avg-Dry	Slow-Med
Eucommia ulmoides	Hardy Rubber Tree	40-60'	40-60'	Full Sun		Dry	Fast
Fagus grandifolia	American Beech	50-70'	40'	Full Sun		Average	Slow-Med
Fagus sylvatica	European Beech	50-60'	35-45'	Full Sun		Avg-Dry	Slow-Med
Fagus sylvatica 'Riversii'	River Purple Beech	50'	40'	Full Sun		Average	Slow
Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	50'	30'	Full Sun		Average	Slow
Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	40-60'	20-30'	Full Sun	x	Average	Slow
Gleditsia triacanthos var. inermis 'Skycole'	Skyline Honeylocust	50'	30-35'	Full Sun	x	Dry	Fast
Gymnodictyon dioicus	Kentucky Coffee Tree male cultivars only	50'	50'	Full Sun	x	Average	Medium
Heptacodium miconioides	Seven Son Flower	20-25'	15'	Full Sun/Part Shade	x	Average	Med-Fast
Koelerutia koelreuteria paniculata	Golden Rain Tree	30'	20'	Full Sun		Avg-Dry	Medium
Liquidambar styraciflua	American Sweetgum	60-70'	40-50'	Full Sun	x	Average	Med-Fast
Liquidambar styraciflua 'Slender Silhouette'	Slender Silhouette Sweetgum	60'	8'	Full Sun		Average	Med
Maackia amurensis	Amur Maackia	25'	30'	Full Sun	x	Dry/Wet	Slow
Magnolia acuminata	Cucumber Magnolia	50'	40'	Full/Part Sun		Average	Medium
Phellodendron amurense 'Macho'	Macho Cork Tree	35'	30'	Full Sun	x	Dry/Wet	Med-Fast
Prunus maackii	Amur Choke Cherry	25'	20'	Full Sun		Average	Medium
Prunus sargentii	Sargent Cherry	30'	20'	Full Sun		Average	Medium
Quercus bicolor	Swamp White Oak	50-75'	50-75'	Full Sun	x	Average	Med-Fast
Quercus coccinea	Scarlet Oak	50-75'	50-75'	Full Sun	x	Average	Med-Fast
Quercus imbricaria	Shingle Oak	40-50'	30-40'	Full Sun	x	Avg-Dry	Medium
Quercus macrocarpa	Bur Oak	50-75'	50-75'	Full Sun	x	Average	Slow
Quercus muhlenbergii	Chinkapin Oak	50-75'	50-75'	Full Sun	x	Average	Medium
Syringa reticulata cultivars	Japanese Tree Lilac	20'	15'	Full Sun	x	Avg-Dry	Medium
Ulmus americana 'New Horizon'	New Horizon Elm + disease resistant elms	50-60'	30-40'	Full Sun	x	Average	Med-Fast
Ulmus americana 'Princeton'	Princeton Elm	40-50'	25-30'	Full Sun	x	Average	Med-Fast
Ulmus parvifolia 'Frontier'	Frontier Elm	30-40'	30'	Full Sun	x	Average	Med-Fast

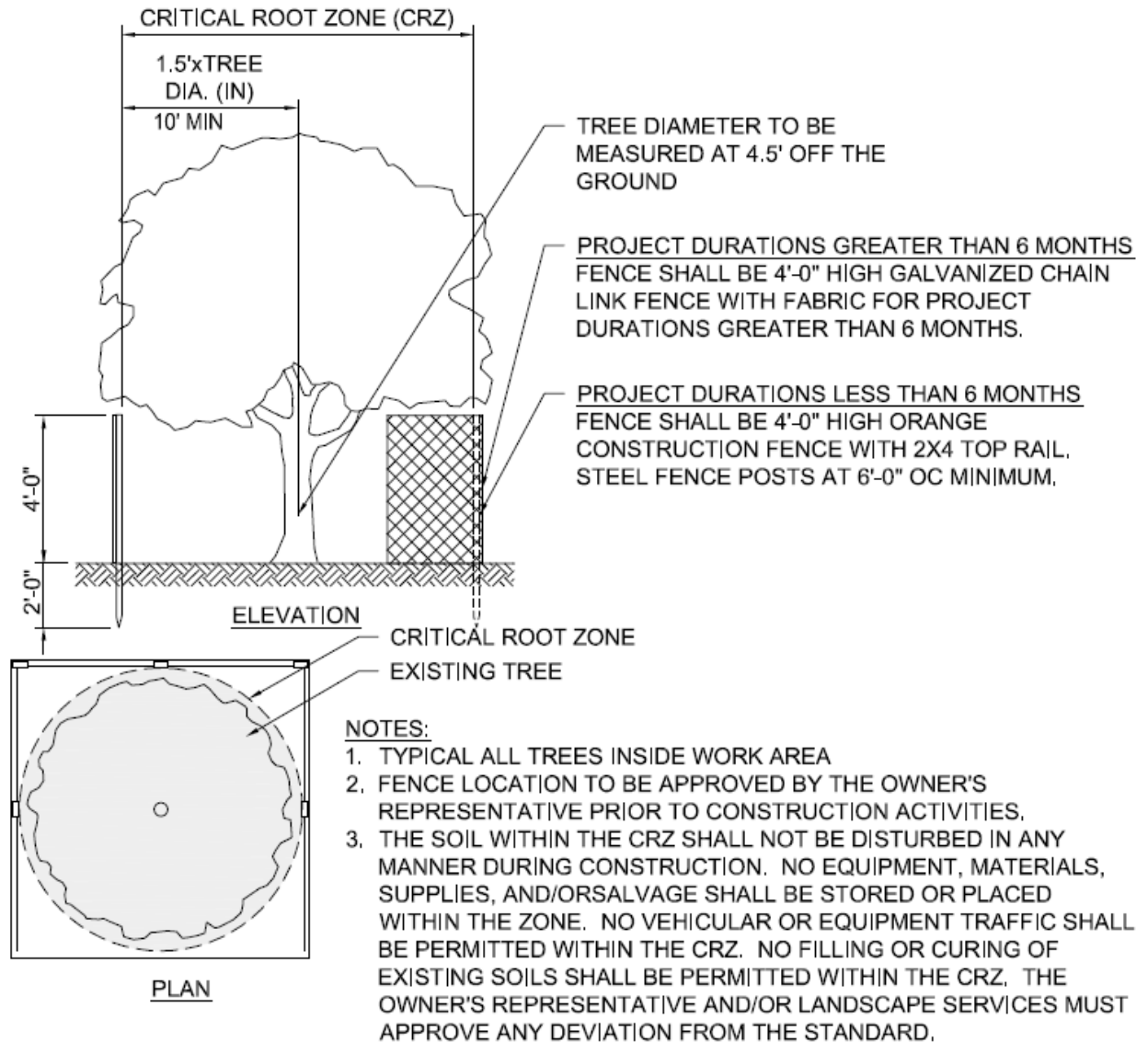
LANDSCAPING RECOMMENDED PLANT LIST: SHRUB AND PERENNIAL

Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Soil	Growth
Aesculus parviflora	Bottlebrush Buckeye	8'	12'	Full Sun/Shade		Average	Slow
Amelanchier alnifolia 'Obelisk'	Standing Ovation Serviceberry	15'	4'	Full/Part Sun		Average	Slow
Amelanchier alnifolia 'Regent'	Regent Serviceberry	4-6'	4-8'	Full/Part Sun	x	Average	Slow
Berberis thunbergii varieties	Berberis varieties	1.5-5'	1-5'	Full/Part Sun	x	Dry/Wet	Medium
Buxus "Green Mountain"	Green Mountain Boxwood	5'	3'	Full/Part Sun		Average	Medium
Buxus "Green Velvet"	Green Velvet Boxwood	2-3'	3-4'	Sun/Part Shade		Average	Slow
Chamaecyparis pisifera	Golden Mop Dwarf Threadbranch Cypress	8'	8	Full Sun		Average	Medium
Cornus alba varieties	Dogwood varieties	3-10'	3-10'	Full/Part Sun		Dry/Wet	Med-Fast
Corylus americana	American Hazelnut	6-8'	6-8'	Full/Part Sun	x	Dry/Wet	Medium
Cotoneaster apiculatus	Cranberry Cotoneaster	3'	6'	Full/Part Sun		Average	Slow-Med
Deutzia gracilis "Nikko"	Nikko Slender Deutzia	2'	5'	Full Sun/Part Shade		Dry/Wet	Medium
Fothergilla gardenii	Witch Alder	3-4'	3-4'	Full Sun/Part Shade		Average	Slow-Med
Fothergilla x intermedia	Hybrid Witch Alder "Blue Shadow"	4-7'	4-5'	Full Sun/Part Shade		Average	Slow-Med
Hamamelis virginiana	Common Witchhazel	15-20'	12-15'	Full/Part Sun		Average	Medium
Hydrangea paniculata/quercifolia Varieties	Peegee and Oakleaf Hydrangea	3-6'	3-6'	Full/Part Sun	x	Average	Fast
Juniperus varieties	Junipers (certain locations)	1'-6'	1'-6'	Full/Part Sun		Average	Slow-Med
Kolkwitzia amabilis 'Dream Catcher'	Dream Catcher Beautybush	8'	6'	Full/Part Sun		Dry/Wet	Fast
Microbiota decussata	Russian Cypress	1'	6'	Full Sun/Part Shade		Average	Slow
Pinus mugo	Mugo Pine "Slow Mound"	2-3'	2-3'	Full/Part Sun		Dry	Slow
Pinus mugo	Dwarf Mugo Pine	4-6'	4-6'	Full/Part Sun		Dry	Slow
Pinus Strobus "Nana"	Dwarf Eastern White Pine "Nana"	3-7'	6-12'	Full Sun		Average	Slow
Rosa x (Flower Carpet varieties)	Carpet Rose (red/apricot varieties only)	2-3'	2-3'	Full Sun	x	Average	Medium
Rosa x (Shrub Rose varieties)	Shrub Rose	2-4'	2-4'	Full Sun	x	Average	Medium
Syringa patula 'Miss Kim'	Miss Kim Lilac	6-8'	5-6'	Full Sun	x	Dry/Wet	Medium
Syringa x 'Pedra (PPAF)'	Bloomerang Lilac	4-5'	4'	Full Sun	x	Average	Slow
Taxus cuspidata "Monloo"	Emerald Spreader Japanese Yew	2.5'	8-10'	Full/Part Sun		Average	Slow-Med
Viburnum varieties	Viburnum (not European Cranberry)	3-6'	5-6'	Full/Part Sun	x	Average	Medium
Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Soil	Growth
Astilbe varieties	False spirea	2-3'	18"-2'	Part Sun/Full	x	Average	Medium
Coreopsis verticillata	Tickseed "Moonbeam" "Zagreb"	12-18"	24"	Sun		Average	Medium
Dianthus varieties	Dianthus	6-10"	12-18"	Full Sun	x	Average	Medium
Geranium varieties	Wild Geranium	6-18"	12-24"	Part Sun/Full		Average	Fast
Heuchera varieties	"Green Spice" "Palace Purple"	8-14"	12-18"	Part Sun/Shade		Average	Slow
Hosta varieties	Hosta	1-3'	2-4'	Shade/Part Shade		Average	Fast
Nepeta x faassenii 'Walker's Low'	Catmint	2'	2'	Part Sun/Full	x	Dry	Fast
Perovskia atriplicifolia	Russian Sage	24-48"	24-36"	Sun		Average	Fast
Sedum upright varieties	Sedum	18"-2'	12-18"	Part Sun/Full	x	Dry	Medium
Tiarella and Heucherella varieties	Foamflower	6-12"	12-24"	Shade/Part Shade		Average	Medium

LANDSCAPING RECOMMENDED PLANT LIST: ORNAMENTAL GRASSES

Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Soil	Growth
<i>Cerastium tomentosum</i>	Snow in Summer						
<i>Euonymus coloratus</i>	Purple Wintercreeper						
<i>Hedera helix</i>	English Ivy						
<i>Larriope spicata</i>	Lily turf						
<i>Lysmachia nummularia</i>	Creeping Jenny						
<i>Phlox subulata/stolonifera</i>	Creeping Phlox						
Botanical Name	Common Name	Height	Width	Light Requirement	Salt	Soil	Growth
<i>Andropogon gerardii</i>	Big Bluestem	4-6'	1-5'	Full/Part Sun		Dry	Fast
<i>Calamagrostis x acutiflora 'Eldorado'</i>	Karl Foerster Grass (Variegated)	3'	18"	Full/Part Sun	x	Dry	Fast
<i>Calamagrostis x acutiflora 'Karl Foerster'</i>	Karl Foerster Grass	3'	18"	Full/Part Sun	x	Dry	Fast
<i>Hakonechloa macra</i> varieties	Japanese Forest Grass	1-2'	1-2'	Shade/Part Sun	x	Average	Medium
<i>Miscanthus sinensis</i> varieties	Miscanthus varieties	3-5'	2-5'	Full/Part Sun	x	Dry	Fast
<i>Panicum amarum 'Dewey Blue'</i>	Dewey Blue Switchgrass	3-4'	3'	Full/Part Sun	x	Dry	Fast
<i>Panicum virgatum 'Heavy Metal'</i>	Heavy Metal Switchgrass	3-4'	2-3'	Full/Part Sun	x	Dry	Fast
<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Switchgrass	4'	18"	Full/Part Sun	x	Dry	Fast
<i>Pennisetum alopecuroides 'Hameln'</i>	Dwarf Fountain Grass	2'	2-3'	Full/Part Sun		Dry	Fast
<i>Schizachyrium scoparium</i> varieties	Little Bluestem varieties	3'	18"-2.5'	Full/Part Sun	x	Dry	Fast
<i>Sporobolus heterolepis</i>	Prairie Dropseed	2'	2'	Full/Part Sun	x	Dry	Fast

LANDSCAPING TREE PROTECTION DETAIL



LIGHTING CONTROL DEVICES AND MANUFACTURER DETAILS

SENSOR TYPE	SENSOR TECHNOLOGY	LOCATIONS	COVER AREA (SQ-FT)	RECOMMENDED MANUFACTURER
WALL TIME SWITCH	TIME CLOCK	STORAGE CLOSET SM. MAINTENANCE AREAS SM. OFFICES	N/A	WATTSTOPPER
			N/A	LEVITON
WALL SWITCH	PASSIVE INFRARED	SM. PRIVATE OFFICE SM. CONFERENCE ROOM BREAK ROOM STORAGE CLOSET	900	WATTSTOPPER
			625	LEVITON
			900	HUBBELL
WALL SWITCH	PASSIVE INFRARED	LG. PRIVATE OFFICE CONFERENCE ROOM BREAK ROOM STORAGE CLOSET	1000	WATTSTOPPER
			2100	LEVITON
			1200	HUBBELL
CEILING OR WALL MOUNTED	PASSIVE INFRARED	LG. OFFICE CONFERENCE ROOM COMPUTER ROOM OPEN OFFICE	2000	WATTSTOPPER
			1500	LEVITON
			1500	HUBBELL
CEILING OR WALL MOUNTED	DUAL TECHNOLOGY	LG. OFFICE CONFERENCE ROOM COMPUTER ROOM OPEN OFFICE	2000	WATTSTOPPER
			2000	LEVITON
			2000	HUBBELL
CEILING OR WALL MOUNTED	PASSIVE INFRARED	HALLWAYS LIBRARY STACKS	90 L.F.	WATTSTOPPER
			100 L.F.	LEVITON
			120 L.F.	HUBBELL
CEILING OR WALL MOUNTED	PASSIVE INFRARED	GYMNASIUM OPEN OFFICES	500	WATTSTOPPER
			450	LEVITON
			600	HUBBELL
WALL MOUNTED	PASSIVE INFRARED	EXTERIOR	2500	WATTSTOPPER
			2500	LEVITON
			3100	HUBBELL

LIGHTING FIXTURE TYPES AND MANUFACTURER DETAILS

The following standard products are to be used as a “basis of design” when selecting lighting fixtures for a project. These are intended to provide a basic fixture family for most common areas on a project and not be fully inclusive of all types of lighting that could be utilized.

LINEAR FLUORESCENT (T8, T5, T5HO – utilize only 4’ lamps)

GENERIC FIXTURE DESCRIPTION	TYPICAL LOCATION	RECOMMENDED MANUFACTURERS
Prismatic lensed troffer (2 x 4 only)	Storage, corridor, copy, break rooms	Columbia, Lithonia, Williams
Surface/ wall mounted wrap	Mechanical areas, utility, storage	Columbia, Lithonia, Williams
Recessed “volumetric” troffers	Classrooms, offices, meeting rooms	Finelite, Focal Point, Ledalite
High abuse surface mounted wrap	Stairwells, corridors	Kenall, Kurtzon, Luminaire
Parabolic- high performance (3” -4” louver)	Office areas, computer labs	Columbia, Lithonia, Williams
Recessed perimeter lighting	Restrooms, corridors	Focal Point, Metalumen, Prudential
Recessed “slot” (4” aperture minimum)	Classroom, corridors, lobbies	Focal Point, Linear Lighting, A-Light
Recessed linear wall wash	Corridors, lobbies, meeting rooms	Elliptipar, Litecontrol, Finelite
Linear white board light	Classrooms, meeting rooms	Finelite, Elliptipar, Litecontrol
Indirect cove lighting (high performance)	Corridors, lobbies	Elliptipar, Linear Lighting, Litecontrol
Indirect cove lighting (strip w/ reflector)	Corridors, lobbies, restrooms	Nulite, Williams, Birchwood
Industrial turret	Mechanical/ Utility areas	Columbia, Lithonia, Williams
Fluorescent high bay	Mechanical, storage, sports areas	ILP, Holophane, Lithonia, Williams
Industrial, harsh environment	Mechanical/ Utility areas	Kurtzon, Rig-a-Lite, Paramount
Linear indirect, indirect/ direct, direct (steel)	Classrooms, labs, offices, conf. room	Peerlite, Finelite, Corelite
Linear indirect, indirect/ direct, direct (alum.)	Classrooms, labs, offices, conf. room	Peerless, Linear Lighting, Focal Point

Fixtures no longer recommended:

- Indirect/direct style fixtures with “basket” style lamp shield (use volumetric troffers)
- Fluorescent under cabinet task lights (replace with LED)

DOWNLIGHTS (LED)

GENERIC FIXTURE DESCRIPTION	TYPICAL LOCATION	RECOMMENDED MANUFACTURERS
General downlight (LED) <3000 lumens	Ceilings less than 10’	Prescolite, Lightolier, Gotham
General downlight (LED) >3000 lumens	Ceilings greater than 10’	BetaLED, Gotham, Pathway
Adjustable accent downlight (LED)	Lobbies, galleries	USAI, Kurt Versen, Edison Price
Lensed wall wash (LED)	Corridor, lobbies, conference rooms	USAI, Kurt Versen, Lightolier, Pathway

Fixtures no longer allowed:

- Compact fluorescent downlights
- Halogen (MR16) accent or downlights

EXIT SIGNS AND EMERGENCY LIGHTING

GENERIC FIXTURE DESCRIPTION	TYPICAL LOCATION	RECOMMENDED MANUFACTURERS
Thermoplastic exit sign (universal mounting)		Dual-lite, Emergilite, Lithonia
Cast aluminum exit sign (universal mounting)		Dual-lite, Emergilite, Lithonia
Edge lit exit sign (ceiling or wall)		Dual-lite, Emergilite, Lithonia
Emergency lighting (LED only)		Dual-lite, Lithonia
Emergency lighting (LED only)	Harsh environments	Kenall, Emergilite
Small inverters (lighting loads)		Dual-lite, Perfect Power Systems

LOCKSET TYPES BY BUILDING DETAILS

BUILDING	LOCKSET-TYPE	TRIM	CYLINDER/FINISH
ADLER JOURNALISM BUILDING	YALE 8800	CRR	RCMX26D
ADVANCEMENT SERVICES BUILDING	SARGENT 8200	LNJ	RCMX26D
ART BUILDING	SARGENT	LNJ	RCMX26D
ART BUILDING WEST	YALE 8800	CRR	MX26D
BECKER COMMUNICATION STUDIES BUILDING	RUSSWIN ML2200	LWA	RCMX26D
BECKWITH BOAT HOUSE	SCHLAGE L	03A	RCMX26D
BIOLOGY BUILDING	YALE 8800	CRXCN	MX26D
BIOLOGY BUILDING EAST	YALE 8800	CRXCN	MX26D
BIOMEDICAL RESEARCH SUPPORT FACILITY	SCHLAGE L9000	03N	RCMX26D
BLANK HONORS CENTER	YALE 8800	CRR	MX26D
BOWEN SCIENCES BUILDING	SARGENT 8200	LNJ	MX26D
BOYD LAW BUILDING	YALE 8800	CRR	RCMX26D
BURGE HALL	YALE 8800	CRXCN	RCMX26D
CALVIN HALL	YALE 8800	CRXCN	MX10 / MX26D
CAMPUS REC & WELLNESS CENTER	SCHLAGE L9000	03L	RCMX26D
CARVER HAWKEYE ARENA	SARGENT 8200	LNJ	RCMX26D
CARVER BIOMEDICAL RESEARCH BUILDING	YALE 8800	CRXCN	RCMX26D
CATLETT RESIDENCE HALL	SCHLAGE L	03N	RCMX26D
CHEMISTRY BUILDING	YALE 8800	CRXCN	MX26D
CHILLED WATER PLANT	YALE 8800	CRXCN	RCMX26D
CLINTON STREET BUILDING	YALE 8800	CRXCN	MX26D
COLLEGE OF MEDICINE ADMIN BUILDING	SARGENT 8200	LNJ	RCMX26D
COLLEGE OF NURSING BUILDING	SARGENT 8200	LNA	MX10B
COLLEGE OF PHARMACY BUILDING	SCHLAGE L	03N	RCMX26D
COLLEGE OF PUBLIC HEALTH BUILDING	YALE 8800	CRXCN	RCMX26D
COMMUNICATIONS CENTER	YALE 8800	CRXCN	MX10
CURRIER HALL	YALE 8800	CRXCN	MX26D
DAUM HALL	YALE 8800	CRXCN	RCMX26D
DENTAL SCIENCE BUILDING	SARGENT 8200	LNF	RCMX10B
ECKSTIEN MEDICAL RESEARCH BUILDING	SCHLAGE L	03A	RCMX26D
ENGINEERING RESEARCH FACILITY	RUSSWIN ML2200	LWA	MX26D
ENGLISH PHILOSOPHY BUILDING	RUSSWIN ML2200	LWA	MX26D
ENVIRONMENTAL MANAGEMENT FACILITY	SCHLAGE L9000	03N	RCMX26D
FACULTY ART STUDIOS	YALE 8800	CRXCN	MX26D
FIELD HOUSE	YALE 8800	CRXCN	RCMX26D
FINKBINE GOLF CLUB HOUSE	YALE 5400	LF	CX26D
GERDIN ATHLETIC LEARNING CENTER	SCHLAGE L	03N	RCMX26D
GILMORE HALL	SARGENT 8200	LWJ	MX10
GLENN SCHAEFFER LIBRARY	YALE 8800	CRXCN	RCMX10B
HALSEY HALL	YALE 8800	CRXCN	MX26D
HANCHER	YALE 880	CRXCN	RCMX26D
HANSEN FOOTBALL PERFORMANCE CENTER	SCHLAGE L9000	03N	RCMX26D / 613

LOCKSET TYPES BY BUILDING DETAILS - Continued

BUILDING	LOCKSET-TYPE	TRIM	FINISH
HARDIN LIBRARY HEALTH SCIENCES	RUSSWIN ML2200	GRC	MX26D
HAWKEYE TENNIS & RECREATION CENTER	BEST 45H	3H	RCMX1X26D
HILLCREST	BEST 45H	3J	RCMX26D
HILLCREST	BEST 83K	4A	RCCX10 or 26D
HOAK FAMILY GOLF COMPLEX	SCHLAGE L9000	03A	RCMX26D
HOSPITAL RAMP 2	SCHLAGE L9000	03N	RCMX26D
HYGIENIC LABORATORY IOWA	YALE 8800	CRR	RCMX26D
INFORMATION TECHNOLOGY FACILITY	SCHLAGE L9000	03N	RCMX26D
INSTITUTE FOR RURAL & ENVIROMENTAL HEALTH	YALE 8800	CRXCN	MX26D
IOWA ADVANCED TECHNOLOGY LABS	SCHLAGE L	03A	RCMX26D
IOWA MEMORIAL UNION	YALE 8800	CRXCN	MX26D
JEFFERSON BUILDING	SARGENT 8200	LNJ	MX10
JESSUP HALL	YALE 8800	CRR	MX10 or 26D
KARRO ATHLECTIC HALL OF FAME	YALE 8800	CRR	RCMX26D
KINNICK STADIUM AND PAUL W. BRECHLER PRESS BOX	YALE 8800	CRXCN	RCMX26D
LAW LIBRARY ANNEX	YALE 8800	CRXCN	RCMX26D
LIBRARY	YALE 8800	CRXCN	MX26D
LINDQUIST CENTER	YALE 8800	CRR	MX26D
MACBRIDE HALL	YALE 8800	CRXCN	MX10
MACLEAN HALL	YALE 8800	CRR	MX26D
MADISON STREET SERVICES BUILDING	YALE 8800	CRR	RCMX26D
MAYFLOWER HALL	SARGENT 7800	WTB	RCMX26D
MEDICAL EDUCATION BUILDING	YALE 8800	CRXCN	MX26D
MEDICAL EDUCATION & RESEARCH FACILITY	YALE 8800	CRXCN	RCMX26D
MEDICAL LABORATORIES	YALE 8800	CRXCN	MX26D
MEDICAL RESEARCH CENTER	YALE 5400 / 8800	AU /CRCN	CX26D
MEDICAL RESEARCH FACILITY	SARGENT 8200	LE1J	MX26D
MORGAN SEWAGE LAB	SCHLAGE D	KNOBS	CX26D
MOSSMAN BUSSINESS SERVICES BUILDING	SCHLAGE ND	TLR	RCCX26D
MTP1 2660 CROSSPARK ROAD	SCHLAGE ND	TLR	RCCX26D
MTP2 2656 CROSSPARK ROAD	SCHLAGE ND	TLR	RCCX26D
MTP4 2662 CROSSPARK ROAD	SCHLAGE ND	TLR	RCCX26D
MULTI-TENANT FACILITY	YALE 8800	CRR	RCMX26D
MUSIC WEST	RUSSWIN CK4200	GRC	MX26D
NATIONAL ADVANCED DRIVING SIMULATOR BUILDING	SARGENT 8200	LNJ	RCMX26D
NORTH HALL	YALE 8800	CRXCN	MX26D
OAKDALE POWER PLANT	YALE 8800	CRXCN	MX26D
OAKDALE RENEWABLE ENERGY PLANT	YALE 8800	AUXCN	RCMX26D
OLD CAPITOL	MATCH EXISTING	-----	MX10
PAPPAJOHN BIOMEDICAL DISCOVERY BUILDING	YALE 8800	CRXCN	RCMX26D
PAPPAJOHN BUSSINESS BUILDING	YALE 8800	CRXCN	RCMX26D
PARKLAWN	YALE 5300	BR	RCCX26D

LOCKSET TYPES BY BUILDING DETAILS - Continued

BUILDING	LOCKSET-TYPE	TRIM	FINISH
PEARL SOFTBALL FIELD	YALE 8800	CRXCN	RCMX26D
PETERSEN RESIDENCE HALL	YALE 8800	CRXCN	RCMX26D
PHARMACY BUILDING	YALE 8800	CRR	MX26D
PHILLIPS HALL	YALE 5400	AU	CX26D
POMERANTZ CENTER	YALE 8800	CRR	RCMX26D
POWER PLANT	YALE 8800	CRXCN	MX26D
QUADRANGLE	YALE 8800	CRXCN	RCMX26D
RECREATION BUILDING	YALE 8800	CRXCN	RCMX26D
RIENOW HALL	YALE 8800	CRXCN	RCMX26D
SCHAEFFER HALL	SARGENT 8200	WTJ	RCMX10
SCIENCES LIBRARY	YALE 8800	CRXCN	MX26D
SEAMANS CENTER	YALE 8800	CRXCN	MX26D
SEASHORE HALL	YALE 8800	CRXCN	MX26D
SLATER HALL	YALE 8800	CRR	RCMX26D
SPEECH & HEARING CENTER	YALE 8800	CRXCN	MX26D
SPENCE LAB PSYCHOLOGY	YALE 8800	CRXCN	MX26D
STANLEY HALL	YALE 8800	CRR	RCMX26D
STANLEY HYDRAULICS LABORATORY	YALE 8800	CRXCN	MX26D
STUIT HALL	YALE 8800	CRXCN	RCMX26D
TECHNOLOGY INNOVATION CENTER	YALE 8800	CRXCN	MX26D
THEATER BUILDING	SARGENT 8200	LNJ	RCMX26D
TROWBRIDGE HALL	YALE 8800	PBCN	MX26D
UNIVERSITY CAPITOL CENTER	YALE 8800	CRXCN	RCMX26D
UNIVERSITY SERVICES BUILDING	SARGENT 8200	LNJ	MX26D
VAN ALLEN HALL	SCHLAGE L	03N	CX26D
VISUAL ARTS BUILDING	SARGENT 8200	LNJ	RCMX26D
VOXMAN MUSIC BUILDING	SARGENT 8200	LW1J	RCMX26D
WATER PLANT	YALE 8800	CRXCN	MX26D
WEST CAMPUS TRANSPORTATION CENTER	SCHLAGE L9000	03A	RCMX26D
WESTLAWN	YALE 8800	CRXCN	MX26D

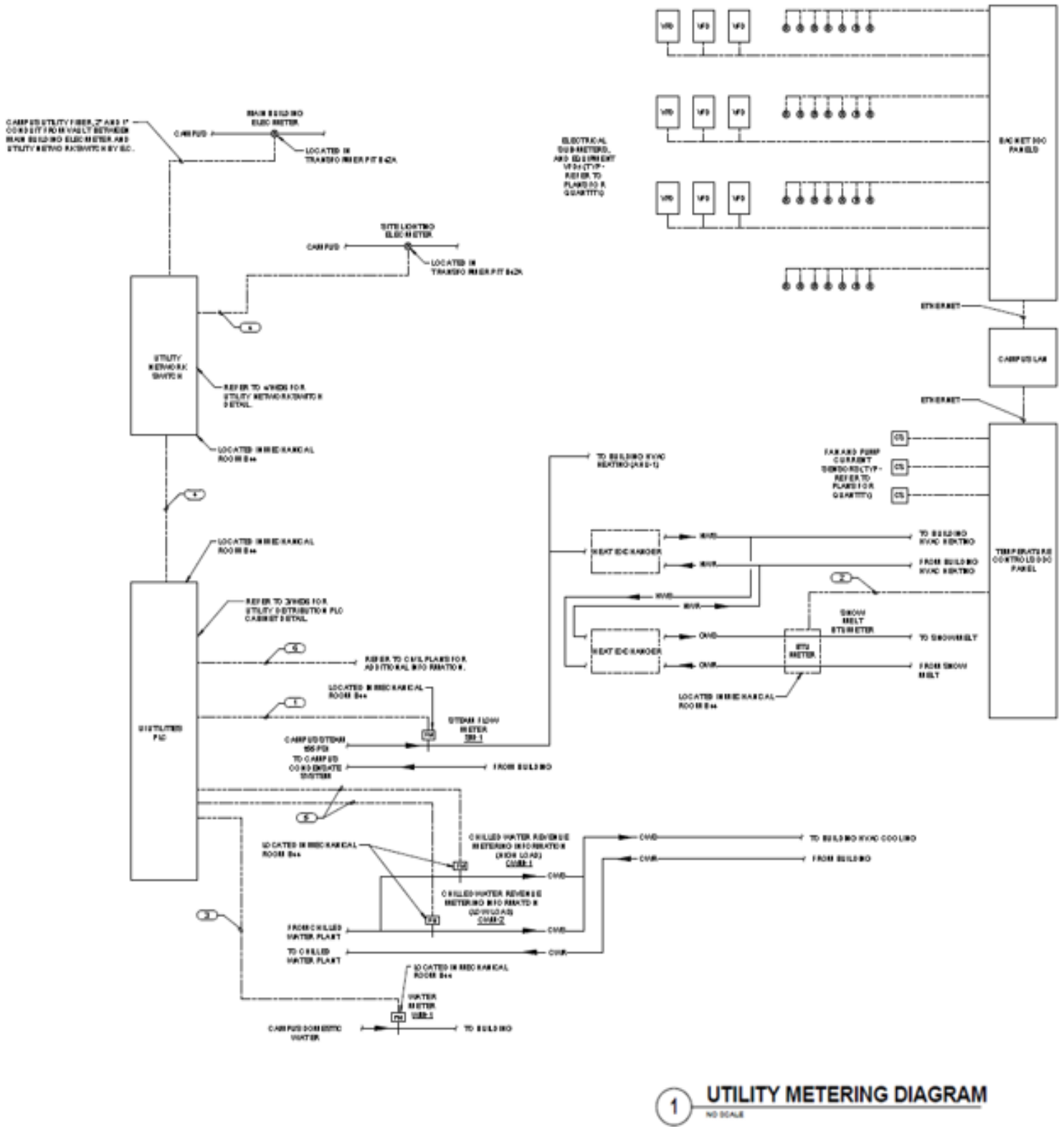
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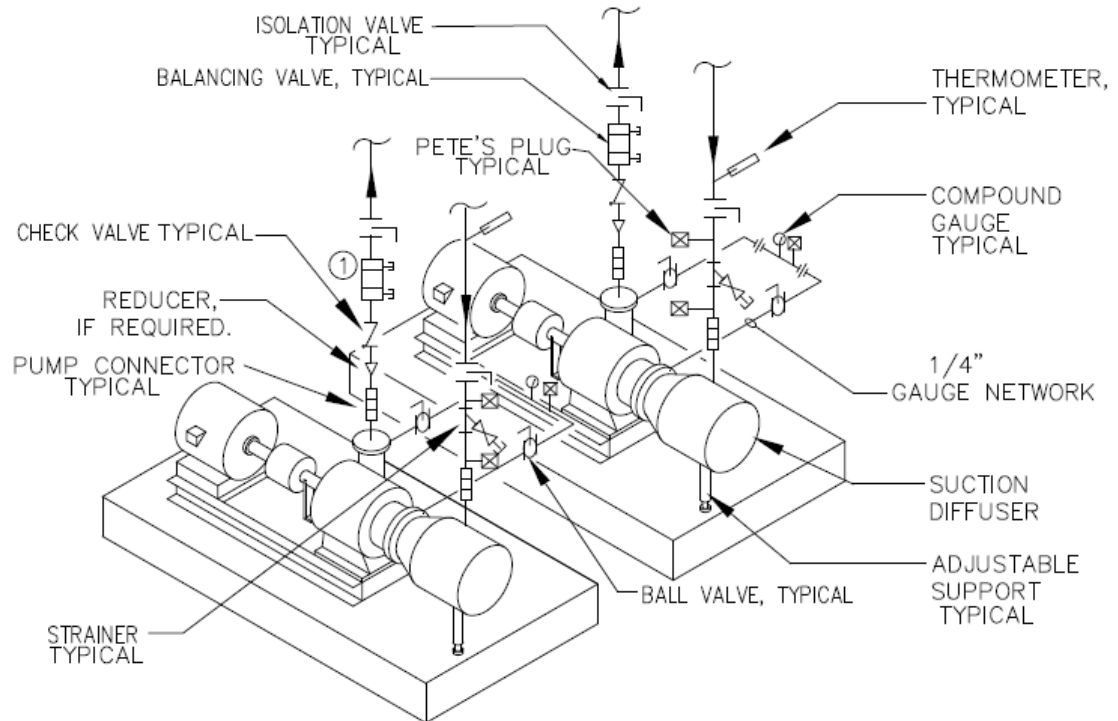
Total KWH consumed, Average Amps per phase, Power Factor PF per phase, Peak KW with date and time stamp, and Average Volts per phase

MEASUREMENT AND VERIFICATION DIAGRAM DETAIL

1. Utility and Sub-Meter Diagram (example)



PUMP – END SUCTION DETAIL

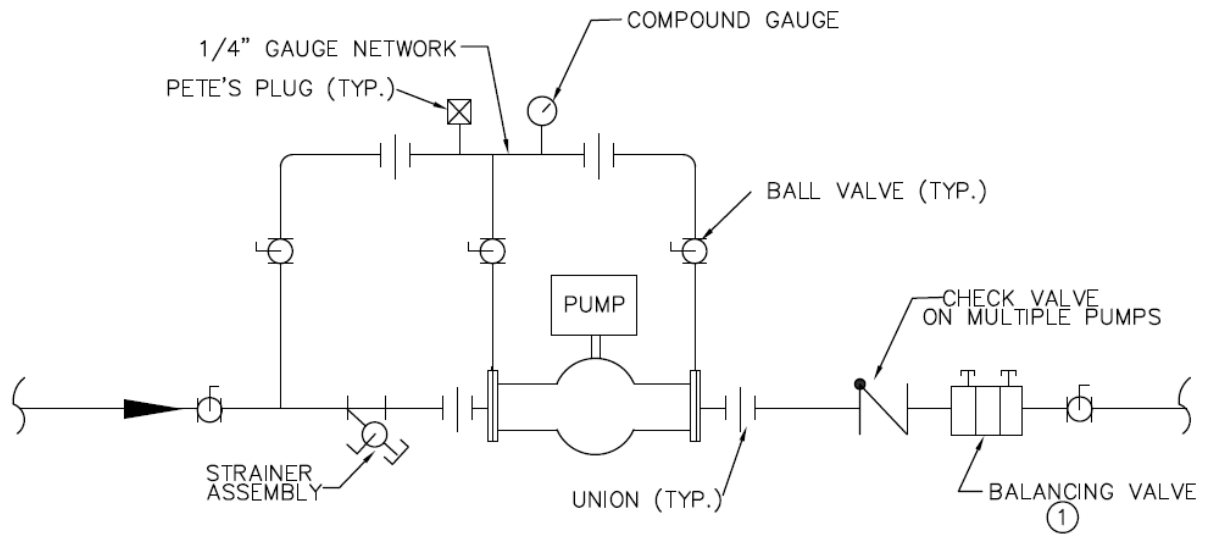


NOTE: TYPICAL FOR ONE PUMP OR TWO.

NOTE: ISOLATION VALVE 2 1/2" OR LESS SHALL BE BALL VALVES. 3" OR LARGER SHALL BE BUTTERFLY VALVES.

① CALIBRATED BALANCE VALVES SHALL BE PROPERLY SIZED PROVIDING ACCURATE MEASUREMENT OF THE FLOW DESIGNED FOR THE PUMP.(TYP)

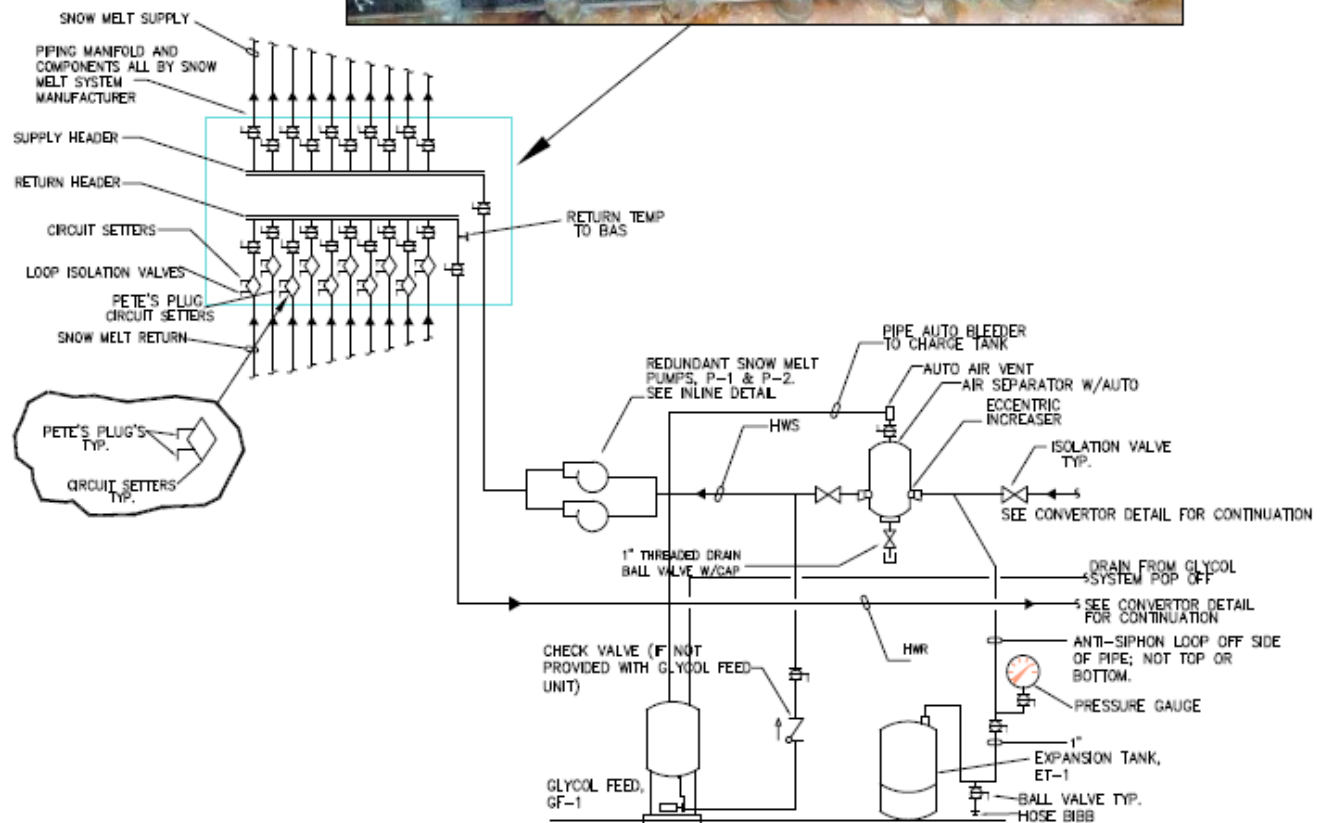
PUMP – IN-LINE DETAIL



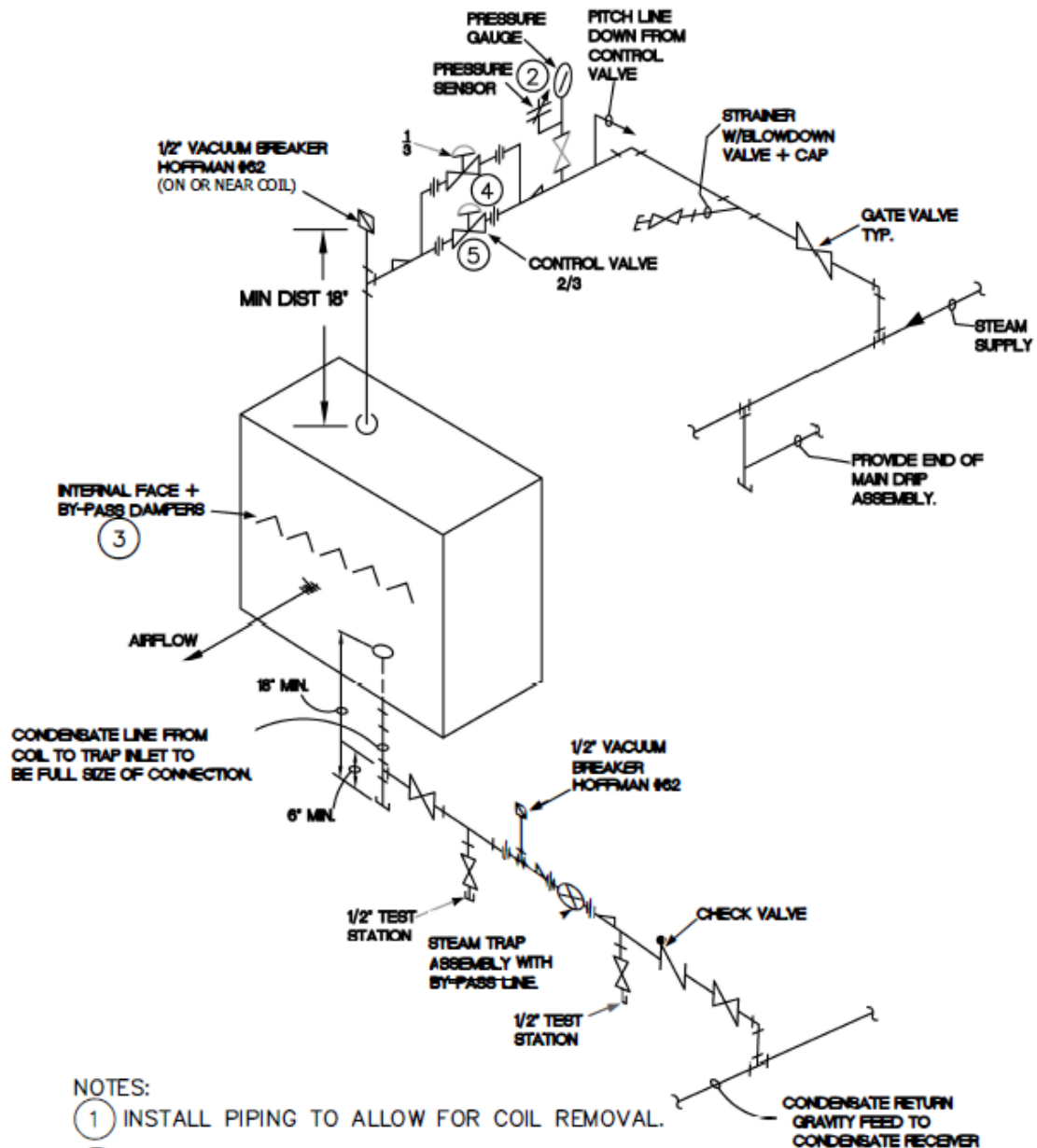
REFERENCE NOTES:

- ① CALIBRATED BALANCE VALVES SHALL BE PROPERLY SIZED PROVIDING ACCURATE MEASUREMENT OF THE FLOW DESIGNED FOR THE PUMP.

SNOWMELT SCHEMATIC DETAIL



STEAM PREHEAT COIL WITH INTERNAL FACE AND BY-PASS DAMPERS DETAIL

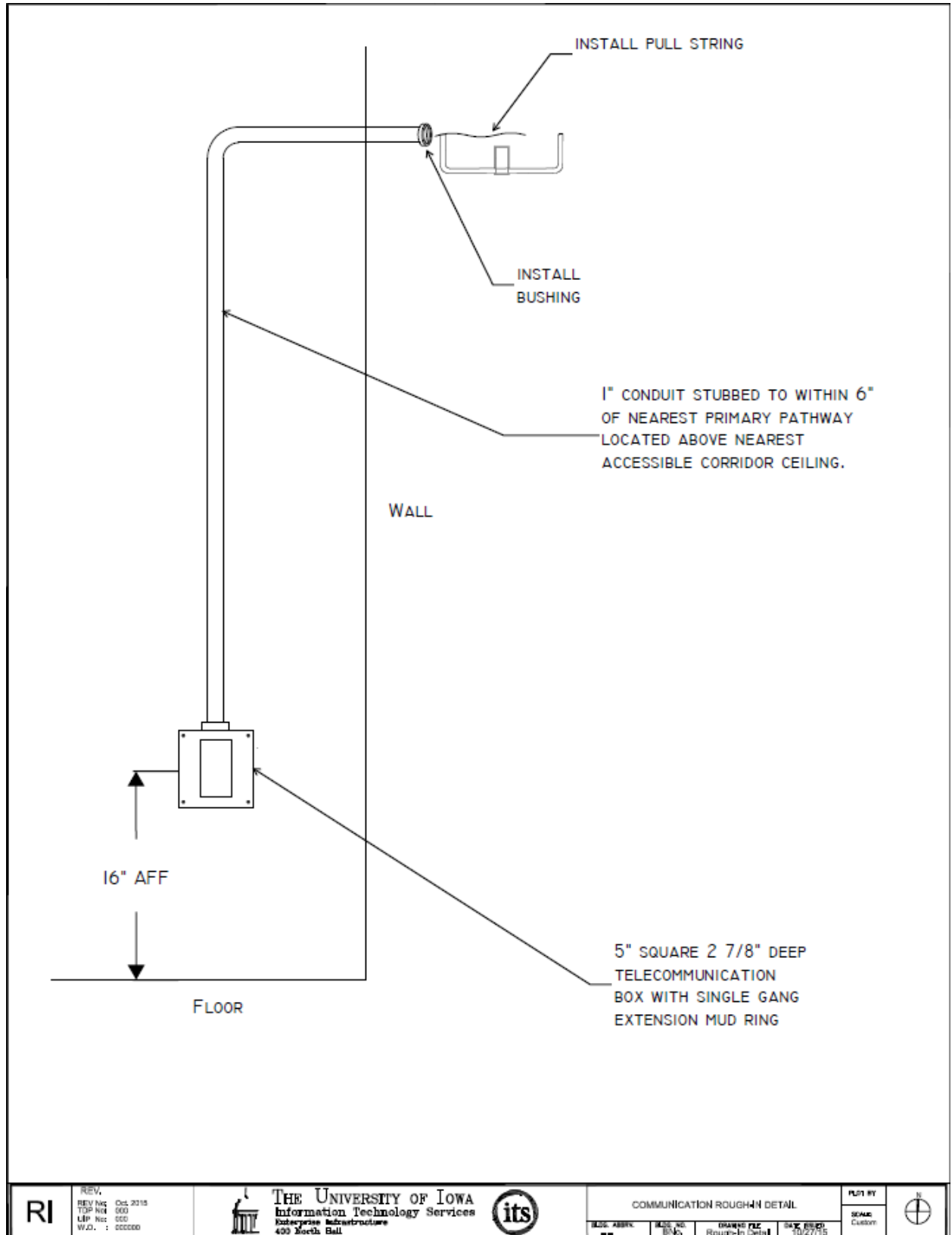


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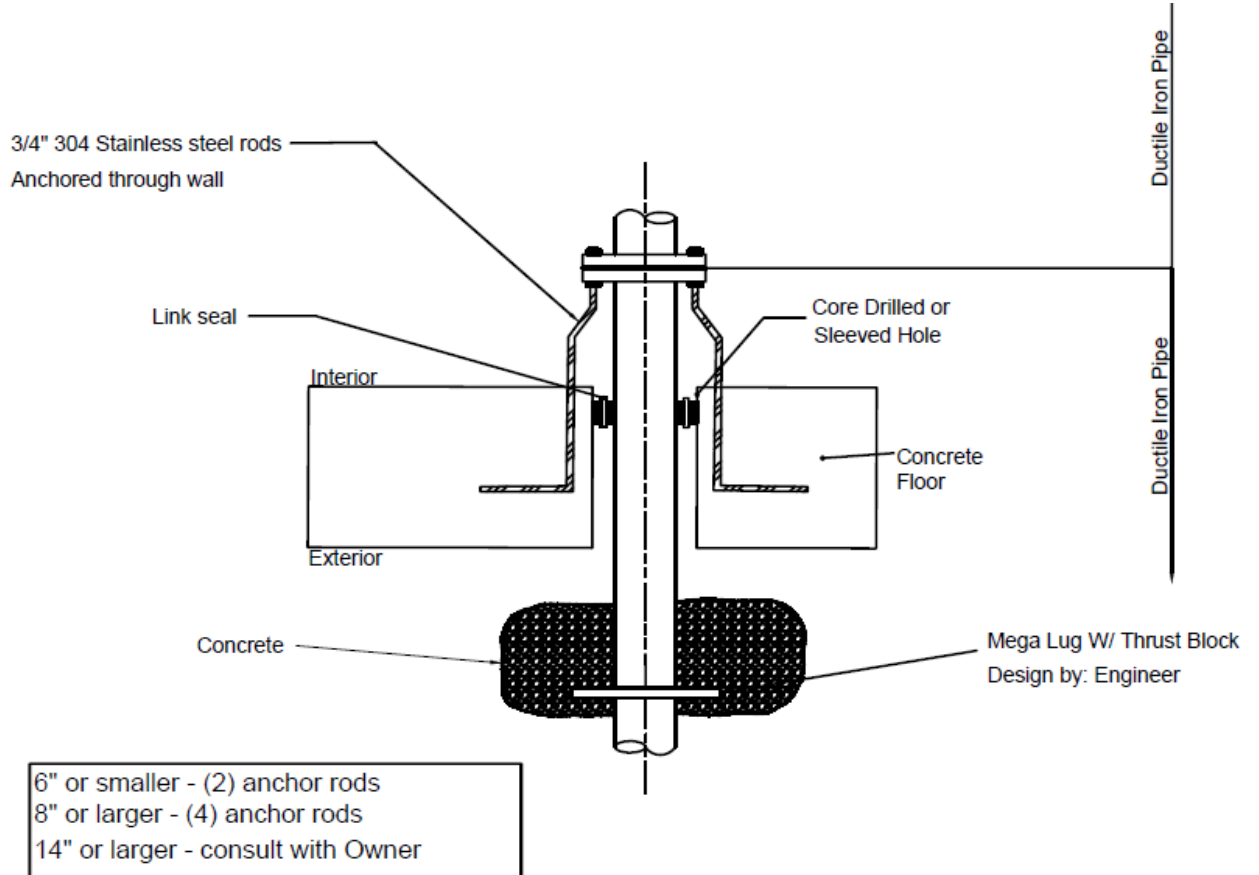
- (1) INSTALL PIPING TO ALLOW FOR COIL REMOVAL.
- (2) STEAM PRESSURE SENSOR TO BE TIED TO THE BAS. DEVICE MUST BE SELECTED SO THAT THE MEASURED PRESSURE WILL BE IN THE MIDDLE OF THE SENSOR RANGE.
- (3) VERTICAL FACE AND BYPASS ONLY.
- (4) UNITS 3,000 CFM AND ABOVE MUST USE A 1/3 - 2/3 STEAM VALVE ARRANGEMENT.
- (5) CONTROL VALVES SHALL BE NORMALLY OPEN AND SHALL BE BRONZE GLOBE VALVES WITH STAINLESS STEEL SEATS AND DISCS RATED @ 30 PSIG AND 330 DEGREES FOR STEAM.

N.T.S.

TELECOMMUNICATION CABLE OUTLET DETAIL

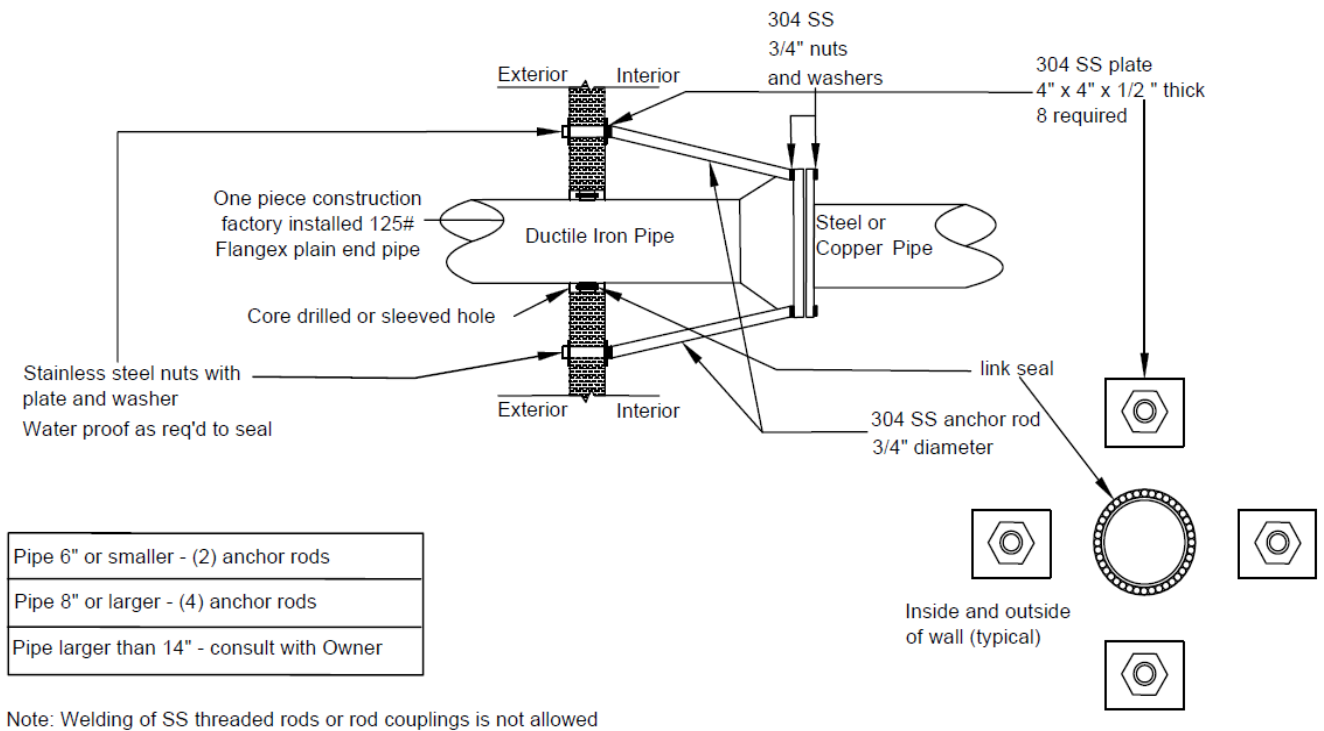


UTILITY DISTRIBUTION CHILLED, DOMESTIC, AND FIRE PROTECTION WATER FLOOR PENETRATION AND ANCHOR DETAIL

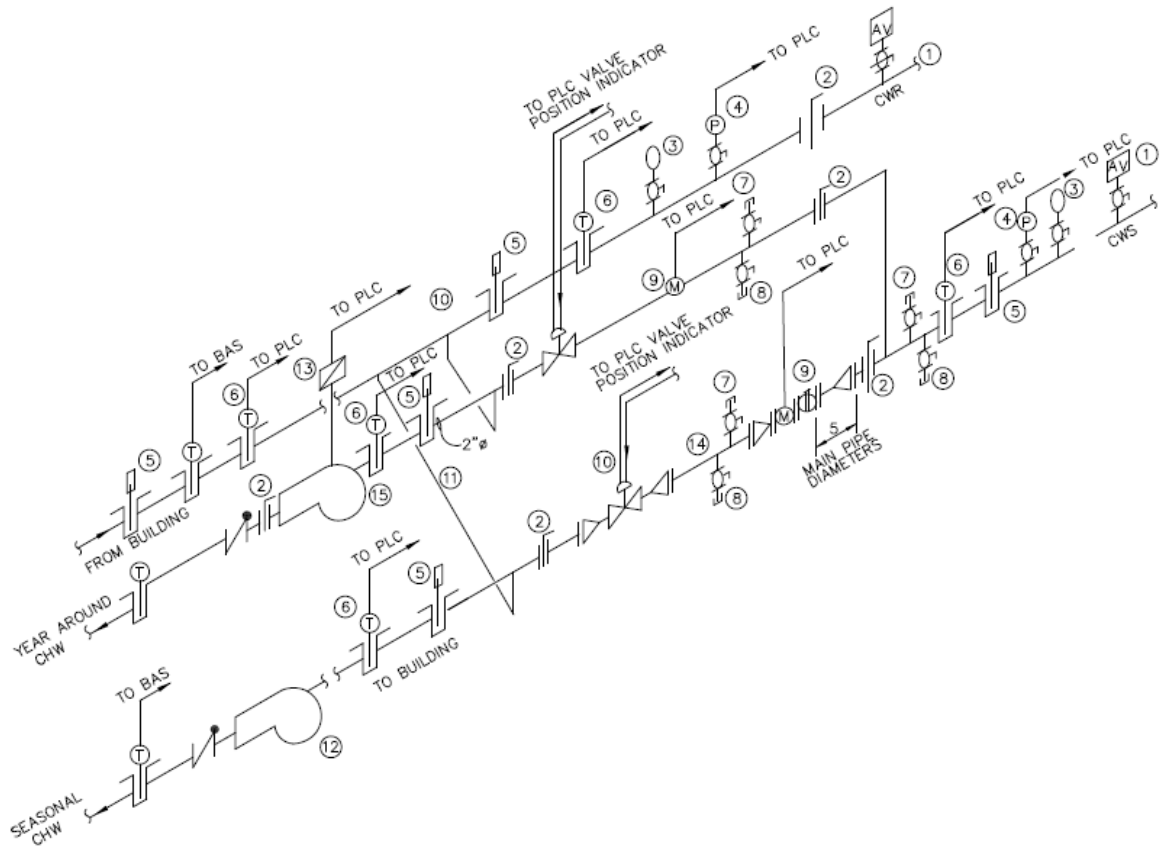


Note: Welding of SS threaded rods or rod couplings is not allowed

UTILITY DISTRIBUTION CHILLED, DOMESTIC, AND FIRE PROTECTION WATER WALL PENETRATION DETAIL



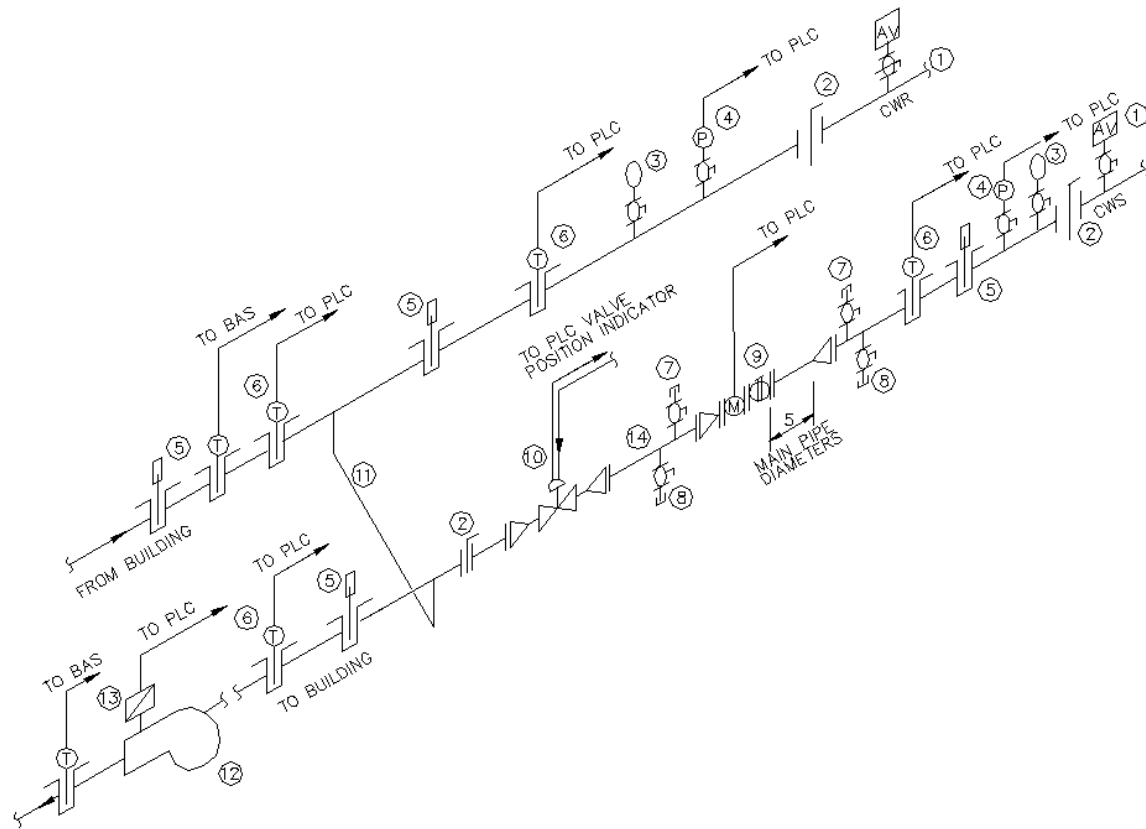
UTILITY DISTRIBUTION CHILLED WATER BUILDING INTERFACE DETAIL (WITH OFF SEASON COOLING REQUIREMENTS)



- ① Automatic air vent model #813 Watson-McDaniel Air Eliminator, ¾" NPT and ball valve. Install at high point inside building.
- ② Isolation valve.
- ③ Pressure gauge, ¾" NPT and ball valve.
- ④ Pressure transmitter, Foxboro Model IGP10-A22DIF ½" NPT and ¾" NPT ball valve.
- ⑤ Stainless steel temperature gauge to be ½" NPT, 5" Face, Everyangle, 30° F – 130° F ASHCROFT or equivalent. ¾" NPT stainless steel well to penetrate halfway through pipe.
- ⑥ Temperature transmitter with ¾" NPT stainless steel well, ABB controls, model TTH30 transmitter, with Pyromation 31C head and Pyromation 4 wire 100 OHM Platinum RTD. Well to penetrate halfway through pipe.
- ⑦ ¾" NPT vent ball valve and cap
- ⑧ ¾" NPT drain valve, ball valve and cap
- ⑨ Chilled water meter, provide minimum straight lengths of pipe as indicated. Ferguson Waterworks, Neptune HP turbine water flow meter with strainer (no substitutions) and tricon E3 transmitter, (4-20 mA), 24V DC supply with direct readout Meter size to be ____" diameter. Mount strainer inverted, with bottom insertion.
- ⑩ Control valve ____" diameter, FlowTek F15 V-90 with Bray electric actuator, 4-20mA signal, position feedback, with hand wheel and mounting bracket. Designer to verify sizing with Ed Stroud (Chilled Water Plant Manager) 319-335-8625.
- ⑪ Pipe bridge shall be line sized, minimum length to be 7 pipe diameters.
- ⑫ Chilled water building pump (to be approved by the Owner.)
- ⑬ Provide one (1) Veris Industries H908 or H308 current switch for each chilled water pump to provide monitoring by the PLC.
- ⑭ This pipe section is to match larger diameter of meter or valve. Add reducer/increaser if necessary to match smaller device.
- ⑮ Chilled water process pump (to be approved by the Owner.)
- ⑯ Chilled Water interface components to be within 72 inches of floor height.

Note: All vents, drains, wells and pressure taps not to be spaced less than 8" on center (unless approved by the Owner. Exact location of wells, traps, etc. to be determined by FM personnel.

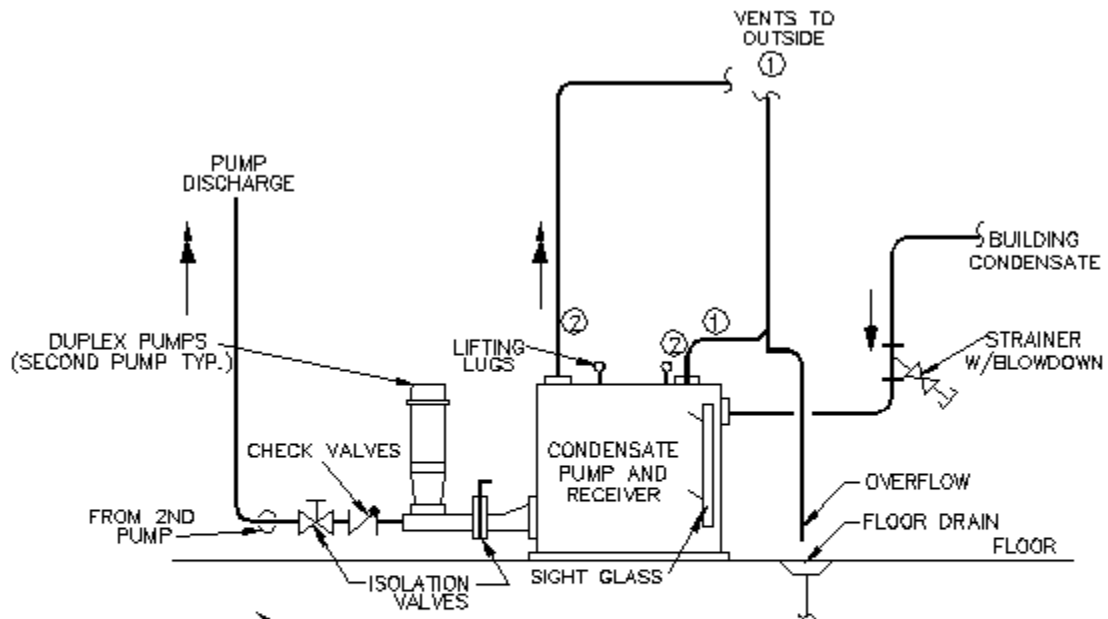
UTILITY DISTRIBUTION CHILLED WATER BUILDING INTERFACE DETAIL



- ① Automatic air vent model #813 Watson-McDaniel Air Eliminator, ¾" NPT and ball valve. Install at high point inside building.
- ② Isolation valve.
- ③ Pressure gauge, ¾" NPT and ball valve.
- ④ Pressure transmitter, Foxboro Model IGP10-A22DIF ½" NPT and ¾" NPT ball valve.
- ⑤ Stainless steel temperature gauge to be ½" NPT, 5" Face, Everyangle, 30° F – 130° F ASHCROFT or equivalent. ¾" NPT stainless steel well to penetrate halfway through pipe.
- ⑥ Temperature transmitter with ¾" NPT stainless steel well, ABB controls, model TTH300 transmitter, with Pyromation 31C head, with Pyromation 4 wire, 100 OHM Platinum RTD. Well to penetrate halfway through pipe.
- ⑦ ¾" NPT vent ball valve and cap
- ⑧ ¾" NPT drain valve, ball valve and cap
- ⑨ Chilled water meter, provide minimum straight lengths of pipe as indicated. Ferguson Waterworks, Neptune HP turbine water flow meter with strainer (no substitutions) and tricon E3 transmitter, (4-20 mA), 24V DC supply with direct readout. Meter size to be ____" diameter. Mount strainer inverted, with bottom insertion.
- ⑩ Control valve, ____" diameter, FlowTek F15 V-90 with Bray electric actuator, 4-20mA signal, position feedback, with hand wheel and mounting bracket. Designer to verify sizing with Ed Stroud (Chilled Water Plant Manager) 319-335-8625.
- ⑪ Pipe bridge shall be line sized, minimum length to be 7 pipe diameters.
- ⑫ Chilled water building pump (to be approved by the Owner.)
- ⑬ Provide one (1) Veris Industries H908 or H308 current switch for each chilled water pump to provide monitoring by the PLC.
- ⑭ This pipe section is to match larger diameter of meter or valve. Add reducer/increaser if necessary to match smaller device.
- ⑮ Chilled Water interface components to be within 72 inches of floor height.

Note: All vents, drains, wells and pressure taps not to be spaced less than 8" on center (unless approved by the Owner. Exact location of wells, traps, etc. to be determined by FM personnel.

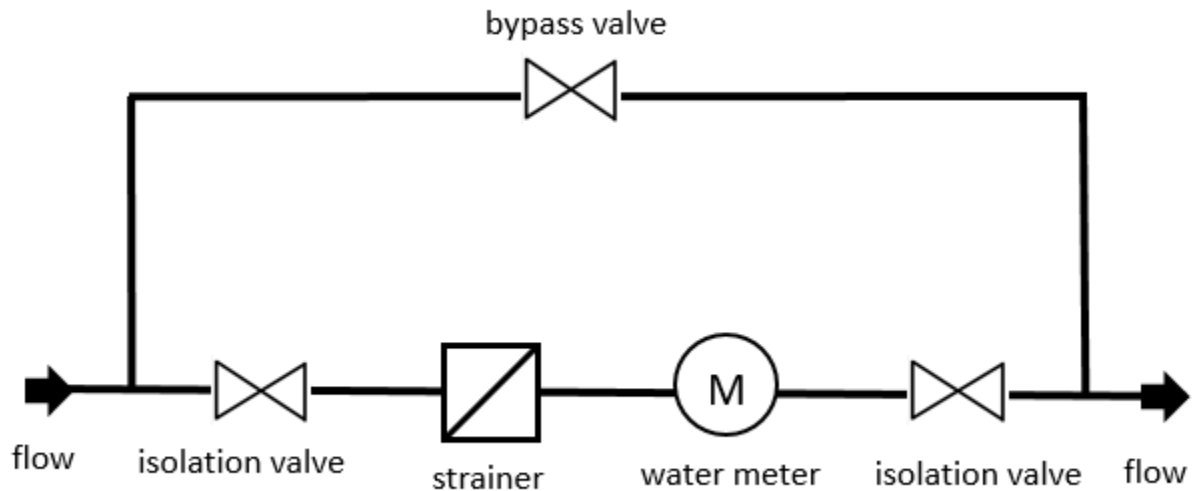
UTILITY DISTRIBUTION CONDENSATE RETURN UNIT DETAIL



NOTES:

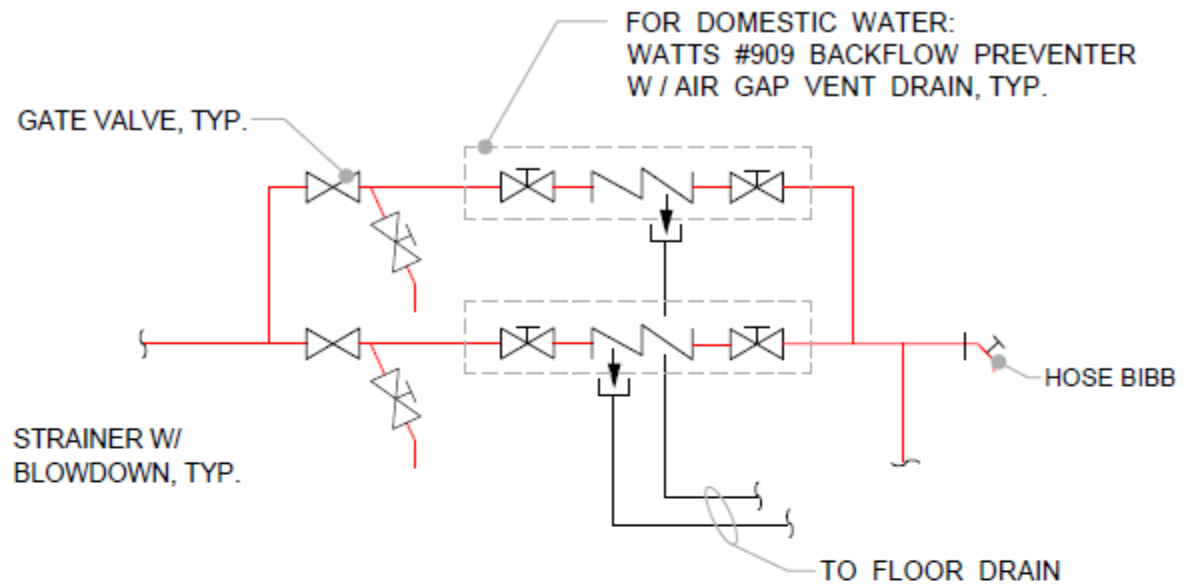
- ① PROVIDE TWO SEPARATE VENTS DIRECTLY FROM RECEIVER TANK. AT LEAST ONE MUST VENT INTO MECHANICAL SPACE; THE OTHER MAY VENT TO OUTSIDE.
- ② VENT PIPING TO MATCH UNIT OUTLET SIZE.

UTILITY DISTRIBUTION DOMESTIC WATER METER DETAIL



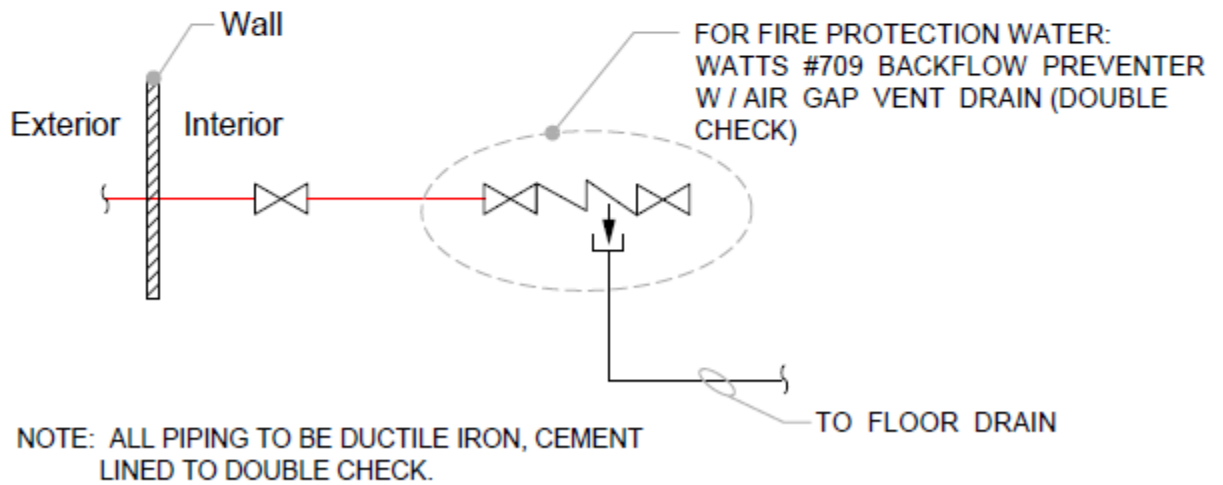
1. Water meters shall be located inside building. Design professional shall coordinate sizing and location of meters with Owner.
2. Water meter shall be provided by contractor and shall be a Neptune meter and Tricon/E transmitter, (4-20 mA), 24V DC, Pro-Read register with direct readout. Owner will verify meter selection.
3. Contractor shall provide and install a Neptune brand strainer only.
4. Contractor shall provide and install a full-sized bypass.
5. Contractor shall be responsible for installation of meter, isolation valves, and associated piping to accomplish layout shown in detail above.
6. Contractor shall furnish and install all raceways and junction boxes
 - a. Contractor shall furnish and install a 6"x6"x4" junction, with backplane, for every water meter and provide a min 3/4 inch raceway from junction box to the utilities PLC cabinet.
 - b. If there are multiple water meters in the same vicinity, contractor shall furnish and install a shared 8"x8"x4" junction box, with backplane, and provide a min 3/4 inch raceway from shared junction box to utilities PLC cabinet.
7. Individual water meters shall be furnished with a 4 conductor, 18 AWG w/shielded cable. For multiple meter installations, contractor shall furnish minimum 6 conductor cable, 18 AWG shielded cable. Contractor to pull cable, owner will perform terminations.

UTILITY DISTRIBUTION DUPLEX BACKFLOW PREVENTER STATION DETAIL



NOTE: DUCTILE IRON PIPING TO BE CEMENT LINED.

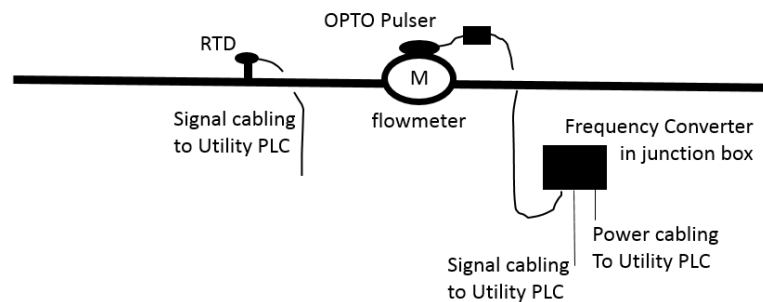
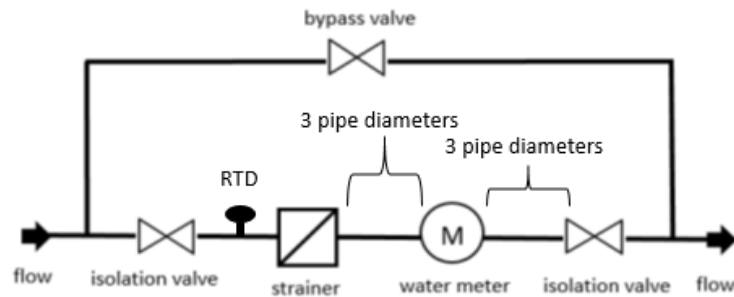
DOMESTIC WATER



NOTE: ALL PIPING TO BE DUCTILE IRON, CEMENT
LINED TO DOUBLE CHECK.

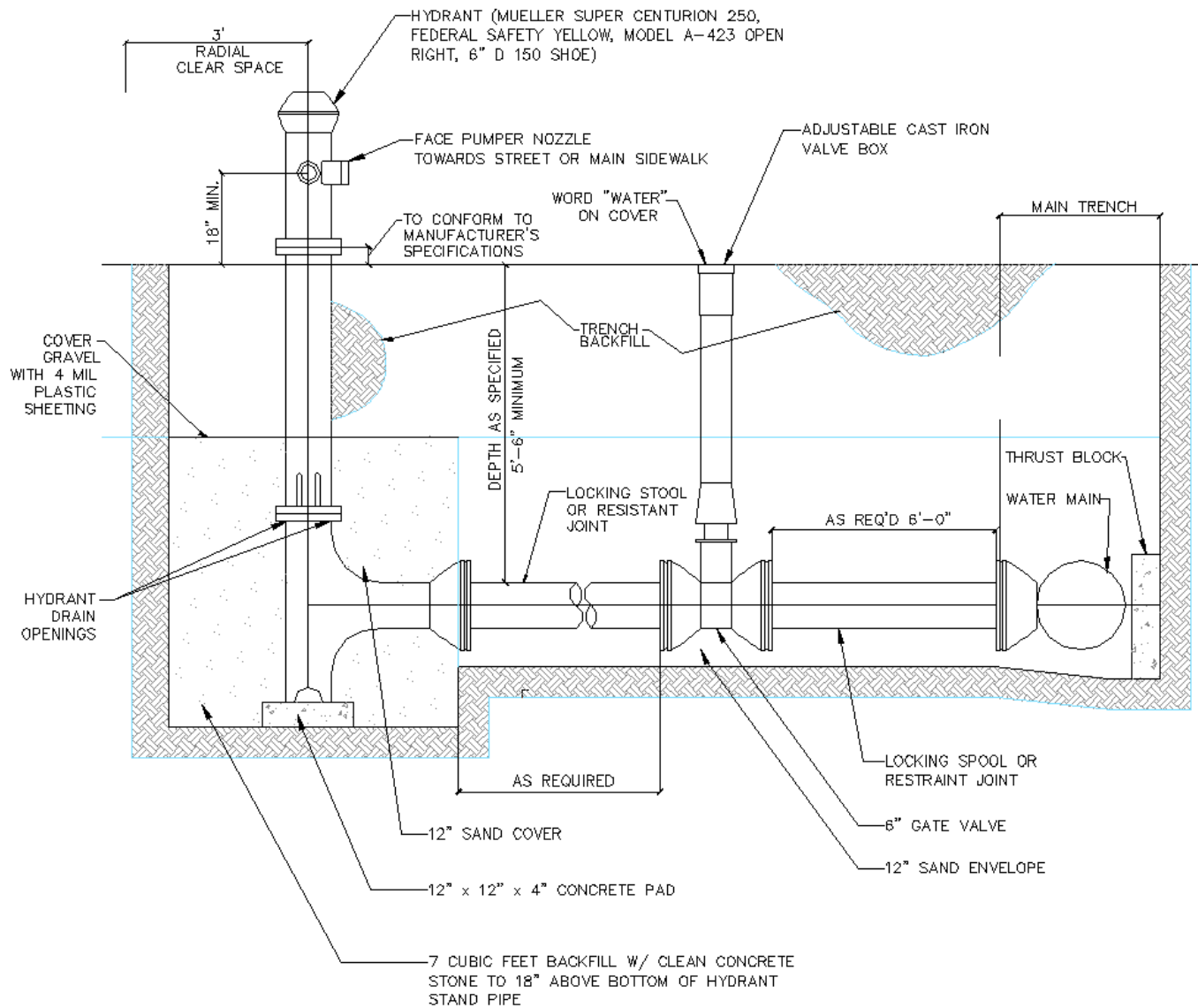
FIRE PROTECTION

UTILITY DISTRIBUTION HOT WATER METER DETAIL

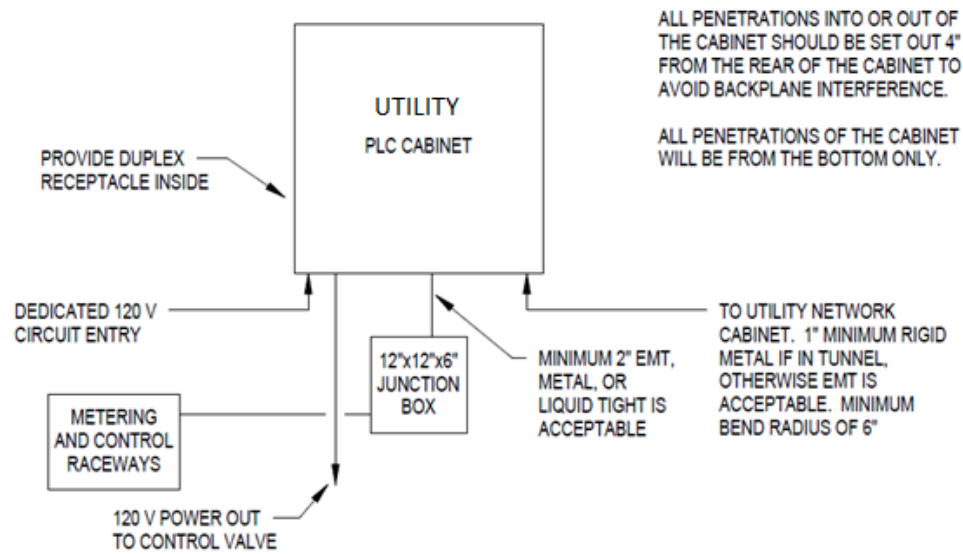


1. A flanged turbine flowmeter and transmitter for the hot water shall be metered using a Meinecke WP/Dynamic Turbine Flow Meter-Transmitter with an OD-04 Opto Pulser and shall be provided by the contractor.
2. The pulse type transmitter frequency converter model shall be FM-1D/K, M/N 182023. Power shall be supplied from the Utility PLC in a dedicated conduit furnished by contractor. Contractor shall supply and pull the power cabling from the frequency converter into the Utility PLC.
3. Contractor shall supply and mount the flow transmitter frequency converter in a separate contractor supplied junction box within the reach of the factory supplied connection cable to the OPTO Pulser. The junction box location shall be located where it can be accessed from standing height.
4. A dedicated conduit for the OPTO Pulser to frequency converter cabling shall be supplied from contractor. Contractor shall account for the distance of the integral block in the OPTO Pulser cabling which shall not be inside the conduit. Contractor shall pull the cabling in the conduit.
5. Contractor shall supply pull and furnish the analog signal wire in a dedicated conduit from the frequency converter to the Utility PLC. The signal wire shall be Belden 88770.
6. A RTD temperature transmitter ABB model TTH30 and an associated ABB thermo-well shall all be supplied by contractor with a Belden 88770 signal cable in conduit back to the Utility PLC. The RTD shall be capable of accurately reporting 0-275 DEG F and placed approximately as shown in detail above.
7. Contractor shall provide and install a bypass and shall be responsible for installation of meter, isolation valves, strainer, RTD, and associated piping to accomplish layout shown in detail above. If reducers are needed, they shall be installed before the bypass arrangement.
8. All final terminations shall be by owner.

UTILITY DISTRIBUTION HYDRANT DETAIL

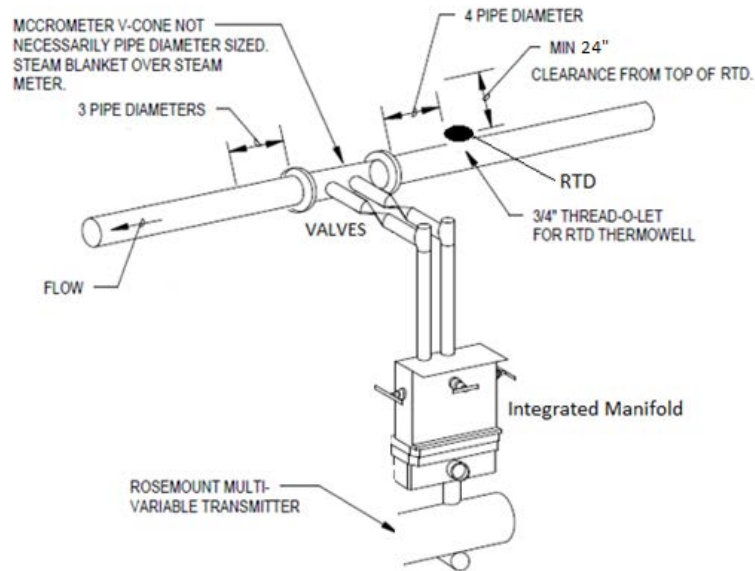


UTILITY DISTRIBUTION PLC CABINET DETAIL

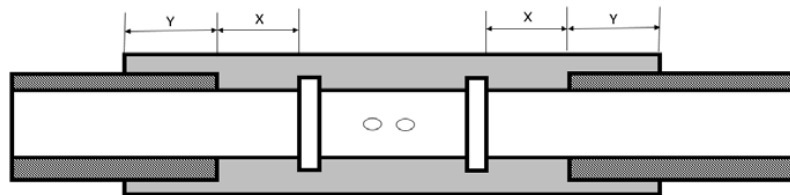


1. Contractor shall furnish and install a PLC cabinet for chilled water interfaces and/or metering.
2. Location of PLC cabinet shall be indicated on the documents. Confirm final location with Owner.
3. PLC cabinet shall be lockable NEMA 12 and 4 rated, 36 inch by 36 inch by 12 inch deep unless otherwise stated by Owner. Cabinet is to include the back plane.
4. Electronic components inside cabinet will be furnished, installed and programmed by Owner. All terminations at devices going to PLC and inside PLC cabinet will be performed by owner.
5. All penetrations into the PLC shall be from the bottom. All penetrations into or out of cabinet should be set out 4 inches minimum from back of cabinet.
6. Contractors shall provide raceways. Raceways for chilled water devices shall be separate from raceways used for steam metering devices.
7. Raceways and junction boxes shall be separate for each voltage class to include separating AC from DC. 480 VAC is to be at least 12 inches away from any lower voltage signal cabling raceways.
8. Raceways for the utilities PLC shall not be shared with the raceways used for building automation systems.
9. Metering and control cabling metal junction box (minimum size shown).
10. Contractor shall provide 120V, 20 amp dedicated circuit with duplex receptacle, located inside of PLC cabinet. Provide a label near the receptacle for which circuit is feeding the PLC.
11. Contractor shall provide a raceway from PLC to Utility Network Cabinet. 1 inch minimum rigid metal if in tunnel, otherwise EMT is acceptable, all with a minimum bend radius of 6 inches and provide a pull string. Owner shall provide, pull, and terminate all utilities network cabling.
12. For all devices except chilled water flow meters use Belden 88760 twisted shielded pair. For chilled water meter use Belden 88770 Triad. For domestic water meter, use a 4 conductor 18 AWG with shielded cable.
13. Utilities PLC and complete steam meter station with raceway shall be in place prior to utility steam consumption. This includes consumption during construction.

UTILITY DISTRIBUTION STEAM METER AND TAPS DETAIL

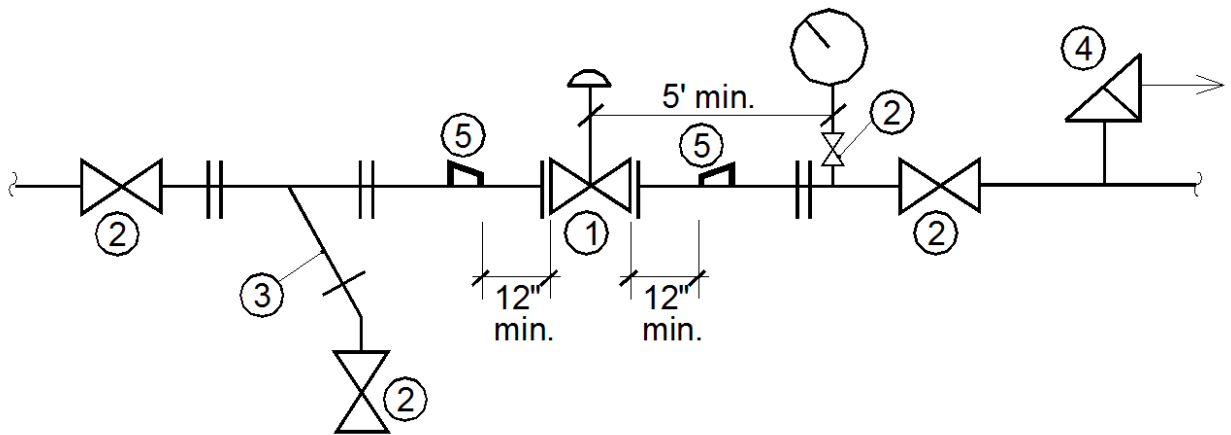


1. Contractor shall provide McCrometer V-cone, with Rosemount multi-variable transmitter with Tri-loop. Provide transmitter with a HART tri-loop, integral manifold, and thin-film platinum RTD sensor with a 3" extension length. Coordinate final meter sizing with owner and part numbers with owner.
2. Meters shall have visible flow direction arrows. The meters shall have 150 pound, raised face, flanged bodies and be sized for 20:1 turndown. Meter to be installed on the horizontal with impulse legs as shown in detail. Meter shall be located inside the building.
3. Meters shall be installed in straight piping and upstream of any pressure reducing devices. The piping shall be free from bends, reducers, valves, and branch lines for a distance of 4 pipe diameters upstream from the meter and 3 pipe diameters downstream of the meter. The meter shall be installed at a maximum height of 6 feet above finished floor.
4. Contractor shall provide a raceway from each meter to Utility PLC. Raceway shall be 3/4 inch (min) RMC outside buildings, 3/4 inch (min) EMT in buildings, 2 inch (min) RMC, with #10 Cu wire for tracer, where buried. Cabling between meter and PLC shall be provided and installed by contractor and shall be Belden 88760 twisted shielded pair.
5. Owner will terminate all connections and perform start up services of transmitter with the as-built V-cone meter sheet calibration sheet from factory to be provided by contractor.
6. In case there is not an existing PLC, contractor shall furnish one. Refer to PLC cabinet specification detail.
7. Removable Insulation on meter body:



For X: On lines 6 inch diameter and under: Provide 6 inch of space from the meter flange to piping insulation. Above 6 inch diameter lines: one pipe diameter between permanent insulation and meter flange. For Y: On lines 6 inch diameter and under: minimum of 6 inch overlap of blanket over piping insulation. Above 6 inch diameter lines: one pipe diameter of overlap minimum. Cut, patch, fit, or add to permanent piping insulation to complete work so parts fit together with other piping insulation and the removable insulation as shown. Face ends to be finished off.

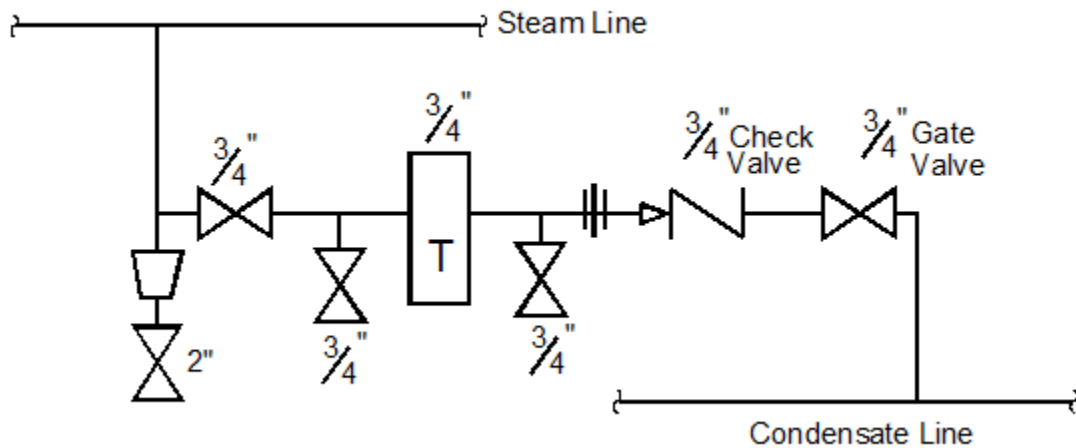
UTILITY DISTRIBUTION STEAM PRESSURE REDUCING STATION DETAIL



- ①. Control valve to be wafer style Cashco Ranger.
- ②. Block valves to be gate valves:
 - a. 2" and smaller – Nibco Model T-174-SS
 - b. Larger than 2" – Welded steel gate valve or lug-style butterfly valve.
- ③. Strainer to be bronze for 2" and smaller, steel for larger than 2". (No cast iron.)
- ④. Relief valve sized to pressure reducing valve. Extend through roof.
- ⑤. Eccentric reducer

NOTE: Two PRV's in series shall not be allowed to replace the relief valve.

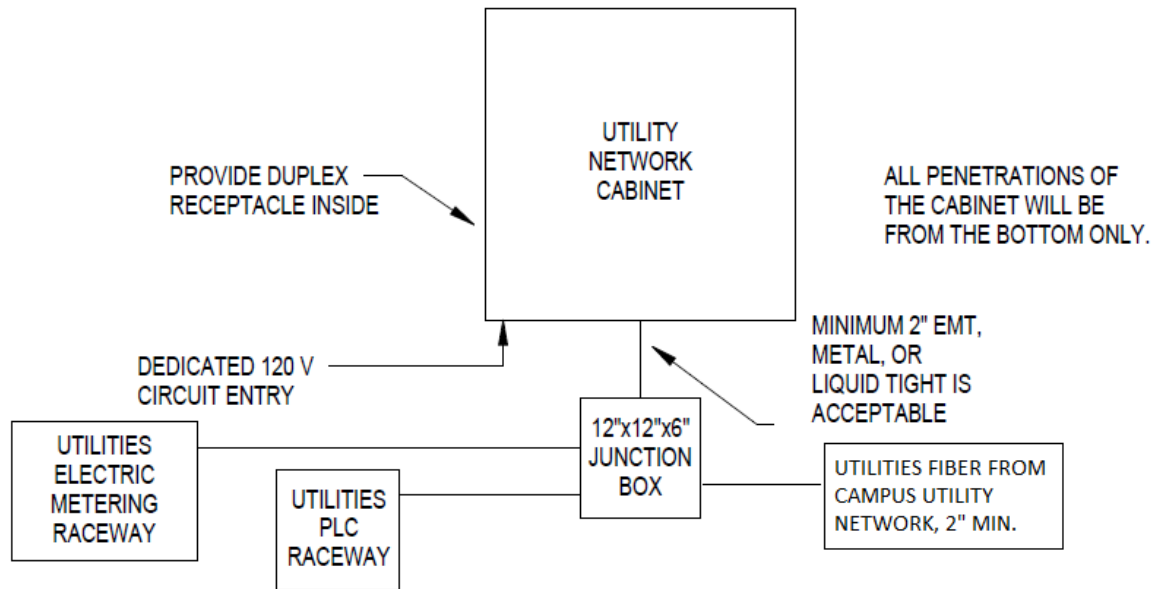
UTILITY DISTRIBUTION STEAM TRAPPING STATION DETAIL



Notes:

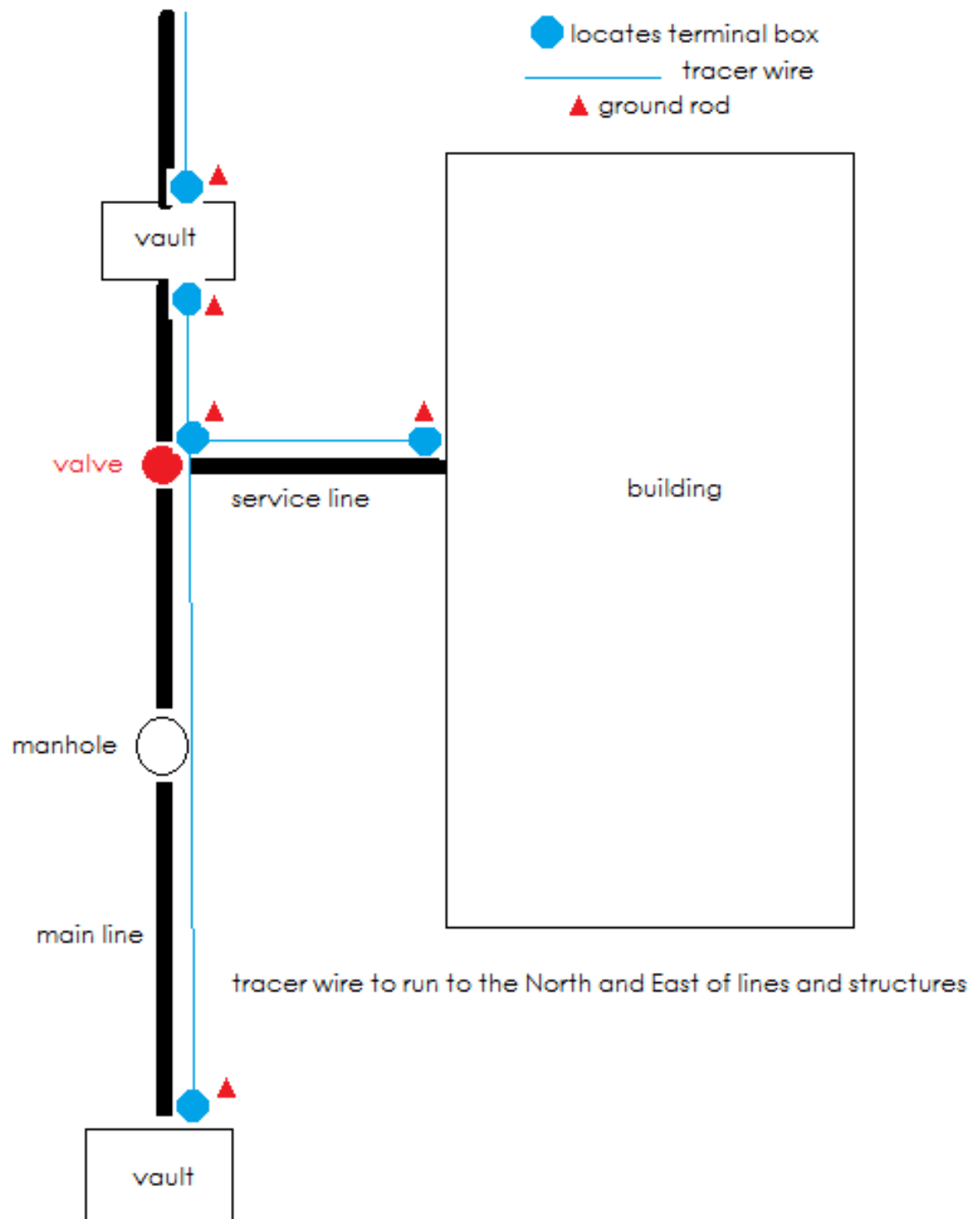
1. All fittings shall be 3000#.
2. Trap to be Armstrong 2011 or Spirax Sarco UIV30.
3. Refer to standards for drip-leg specifications
4. Welded fittings shall not be used on trapping stations.
5. No bypass around steam traps.

UTILITY DISTRIBUTION UTILITY NETWORK CABINET DETAIL

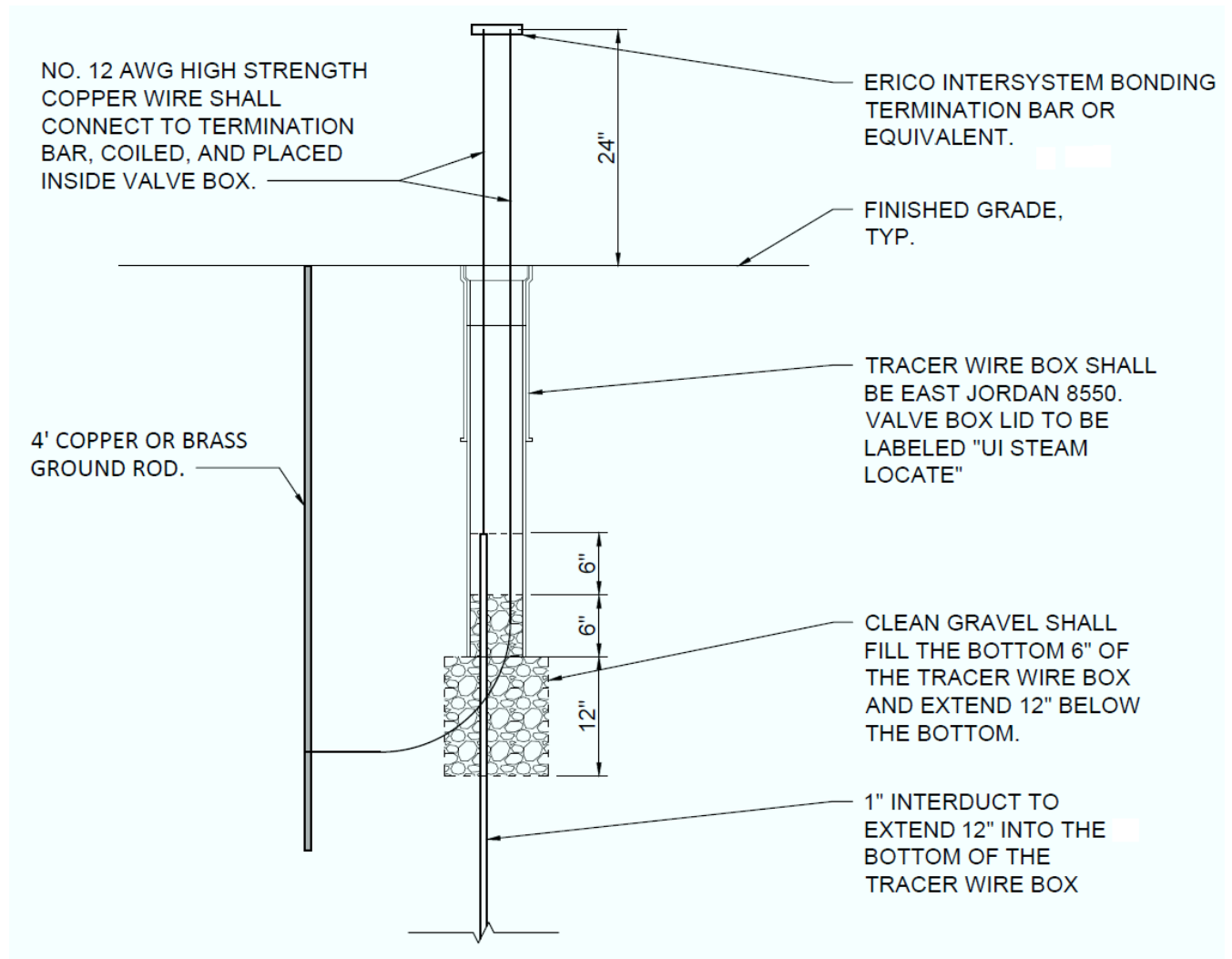


1. Contractor shall furnish, and install cabinet and metal junction box (minimum size shown). Contractor to furnish Cabinet with 19" rack mount.
2. Cabinet shall be NEMA 4 and 12 rated and lockable. Cabinet size is 36" high, 24" wide, and 24" deep.
3. Location of cabinet is to be on design documents and final location to be confirmed by owner.
4. UI Meters and Controls will provide, pull, and terminate all utility network cabling and provide, program, and install all components inside the cabinet to include terminations.
5. Contractor shall provide 120V, 20 amp dedicated circuit with duplex receptacle to be located inside of utility network cabinet. Provide a label near the receptacle for which circuit is feeding the network cabinet.
6. Contractor shall furnish a minimum of two (2), 2 inch raceway to connect utility network cabinet to existing campus utility network which typically comes through Electrical Duct bank and shall be confirmed by owner. A pull line is to be furnished in this raceway.
7. Contractor is to provide a raceway to the Utility PLC and any electric meters for utility revenue metering at a minimum of 1 inch. Contractor also to provide raceway and to back up generator if not going to the BAS system. All raceways shall be provided with a pull line.
8. Minimum fiber raceway bend radius is 6 inches.

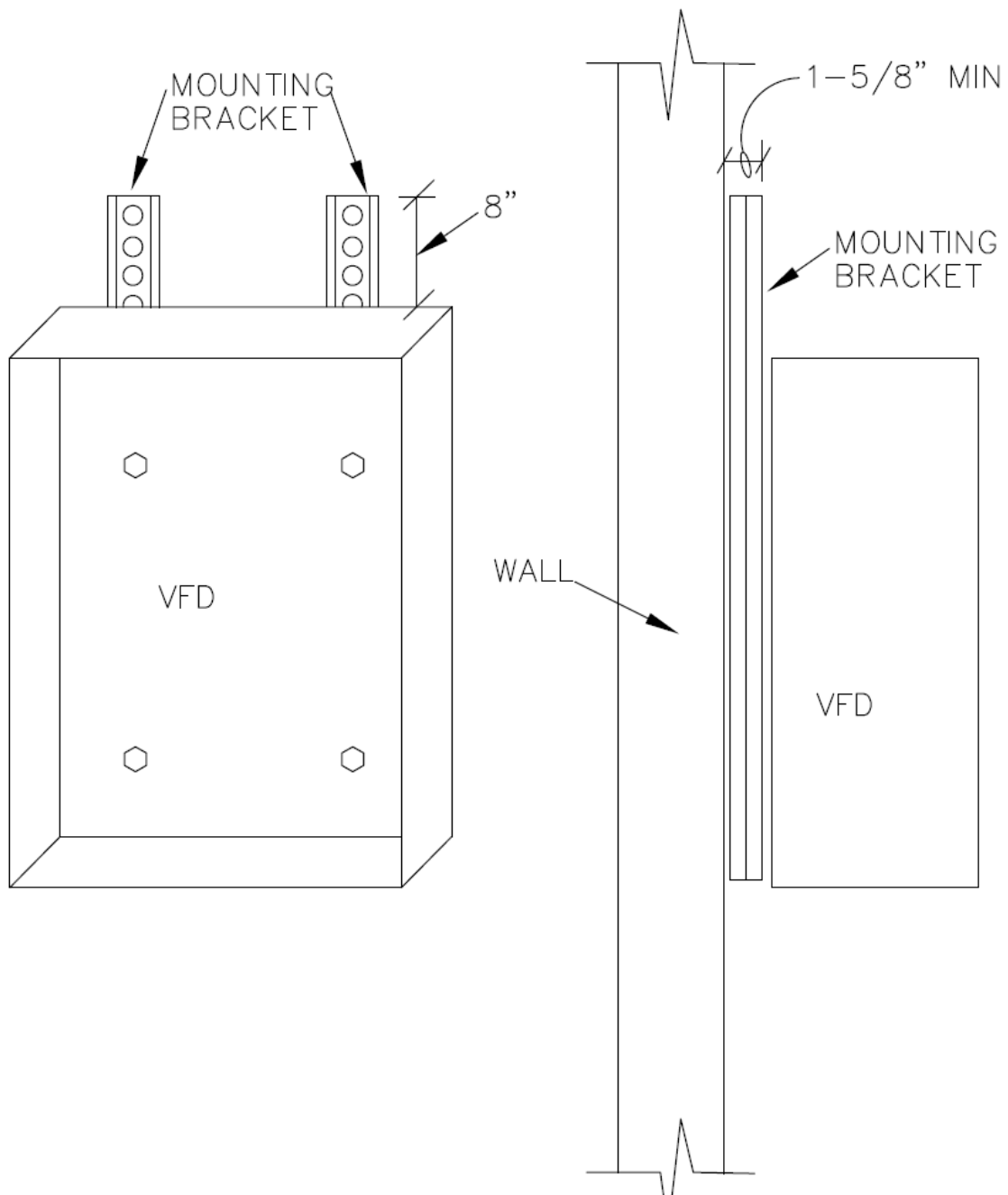
UNDERGROUND UTILITY LOCATES TRACER WIRE – DESIGN DETAILS



UNDERGROUND UTILITY LOCATES TRACER WIRE SYSTEM

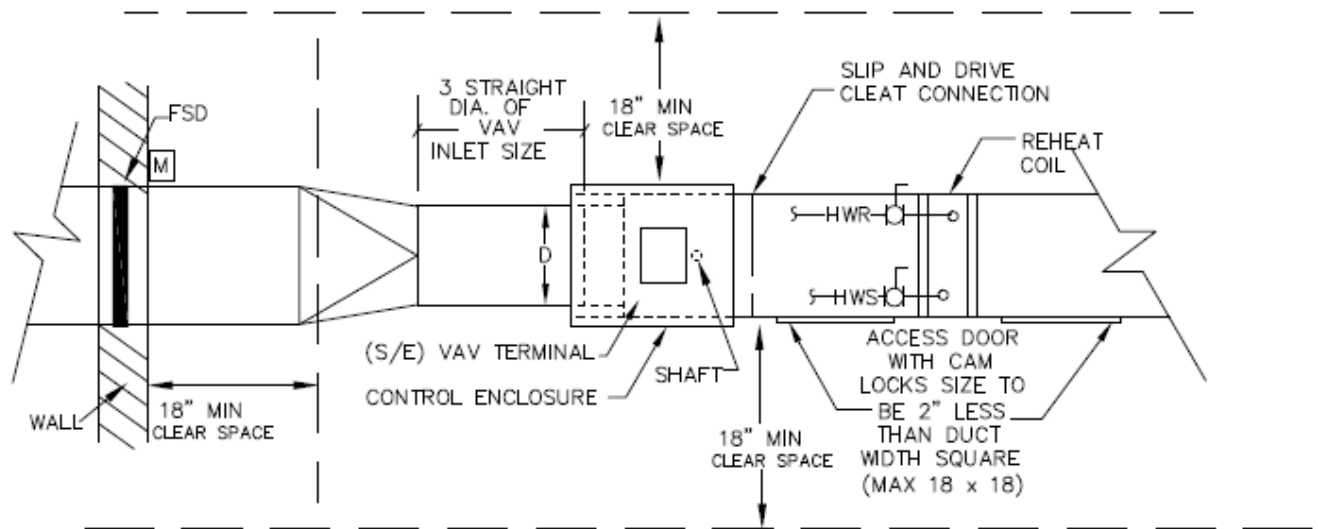


VARIABLE FREQUENCY DRIVE MOUNTING DETAIL

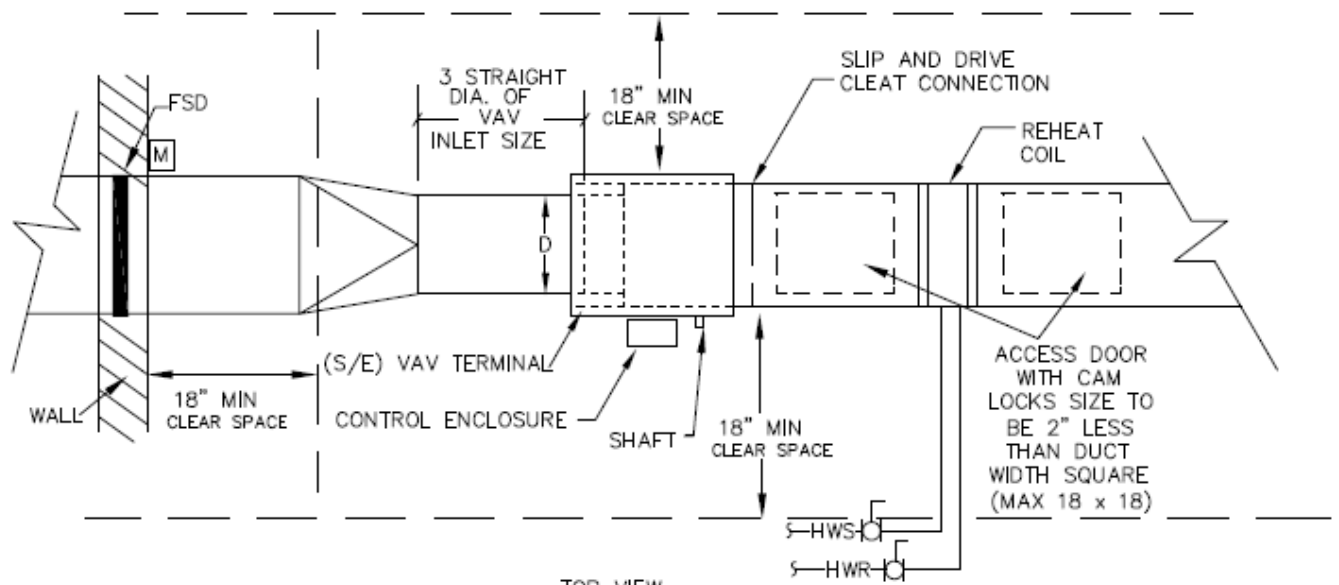


NOTE:
Mount bracket to wall vertically.

VAV TERMINAL CLEARANCE INSTALLATION DETAIL

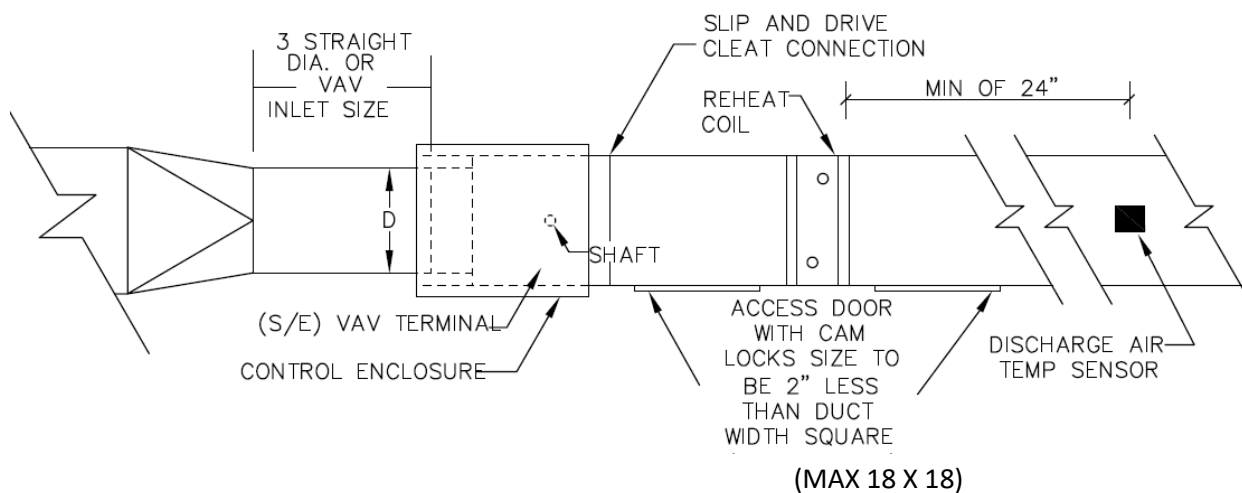


SIDE VIEW



TOP VIEW

VAV TERMINAL INSTALLATION DETAIL



Notes:

- 1 Controls to be provided by Contractor for factory installation or installed in field as determined by project specifications.
- 2 EVAV similar, less RHC and access doors.
- 3 See plans for proper hand of controls and reheat coil connection.
- 4 Damper shaft to include permanent slot indication of damper position.
- 5 Multi-point center averaging velocity sensor to be provided for all terminals.



Facilities Management

Design & Construction

CHANGE REQUEST FORM

This form shall be used to request a change to the UI Design Standards & Procedures manual. Please complete and return via e-mail for further consideration:

Facilities Management – Design Standards & Procedures

Attn: Mary Rue

200 USB

Iowa City, IA 52242

mary-rue@uiowa.edu

First and Last Name: _____ Date: _____

Company Name: _____

Email address: _____ Phone: _____

Section and Page #: _____

Change suggested:

Please use additional paper or the back of this form in order to provide as much detail as possible.

Justification:

Reviewed and Approved for Submittal by:

(Signature of requestor's AD or Director)

Approvals:

Building & Landscape Services

_____ Recommended

(Signature of AD or Director)

(Printed Name)

Date: _____

University of Iowa Utilities

_____ Recommended

(Signature of AD or Director)

(Printed Name)

Date: _____

Design & Construction

_____ Recommended

(Signature of AD or Director)

(Printed Name)

Date: _____

_____ *(Department Name)*

_____ Recommended

(Signature of AD or Director)

(Printed Name)

Date: _____

DEVIATION REQUEST FORM

This form shall be used by Design Professional to request a deviation from the Design Standards & Procedures and must be completed prior to bid document phase. Please complete and return via email to the UI Project Manager in .pdf format.

Date: _____ Project Phase: _____
(SD, DD, CD)

UI Project Name: _____

UI Project Number: _____ Design & Construction Project Manager: _____

Design Professional: _____

Design Professional Representative: _____
(first and last name)

Email Address: _____ Phone: () _____

Design Standards Edition: _____ Section Number: _____ Page Number: _____

Description of Deviation: (attach additional page(s) as needed)

Justification for Deviation Request: (attach additional page(s) as needed)

Include Total Cost of Ownership Comparison

Attachment List: _____ Total number of pages attached: _____

Approvals:

Building & Landscape Services

____ Recommended
____ Recommended as Noted
____ Not Recommended
____ N/A

(Signature)

(Printed Name)

Date: _____

University of Iowa Utilities

____ Recommended
____ Recommended as Noted
____ Not Recommended
____ N/A

(Signature)

(Printed Name)

Date: _____

Space Information

____ Recommended
____ Recommended as Noted
____ Not Recommended
____ N/A

(Signature)

(Printed Name)

Date: _____

(Department Name)

____ Recommended
____ Recommended as Noted
____ Not Recommended
____ N/A

(Signature)

(Printed Name)

Date: _____

Design & Construction approval: _____ Date: _____

Director / Associate Director

APPENDIX G

System Operating Efficiency Reporting

Boiler efficiencies for each boiler

Heat rates for each turbine generator (BTU/kWh)

Power Plant steam in plant use, total use (K pounds) and % of boiler production

Power plant RO recovery rate (%)

Steam distribution losses (%)

Condensate return (%)

Chiller efficiency (kW/ton and steam pounds/ton)

Chilled Water Plant auxiliary electric (kW/ton)

Chilled Water loop average daily make-up (gal/day)

Water Plant efficiency (Plant kW/Mgal production)

Water system losses (Mgal)

Water plant RO recovery rates for each train (%)

APPENDIX H

Building / Facilities by University Department

Please see attached.

University Hospital Center

Bldg/Property #	Building Name
0031	General Hospital
0118	Ctr for Disabilities and Dev
0181	South Wing
0220	Hospital Parking Ramp 1
0290	Information Technology Fac
0309	UIHC Central Emerg Pwr Gen Fac
0318	West Campus Transp Ctr - Parking
0343	Boyd Tower
359	Carver Pavilion
375	Colloton Pavilion
0400	Children's Hospital
0403	Hospital Parking Ramp 2
0412	Hosp Parking Ramp 3
0417	UIHC Integrated Svcs Ctr- CONST
0421	Pappajohn Pavilion
0431	Pomerantz Family Pavilion
0433	Hospital Parking Ramp 4

University Housing and Dining Department

Bldg/Property #	Building Name
0044	Currier Hall
0073	Burge Hall
0112	Hillcrest Hall
0272	Catlett Residence Hall
0273	Rienow Hall
0274	Slater Hall
0275	Petersen Residence Hall
0276	Daum Hall
0277	Stanley Hall

University Athletics Department

Bldg/Property #	Building Name
0040	Field House
0042	Kinnick Stadium
0068	Camp Rec & Wellness Ctr
0128	Duane Banks Field
0304	Recreation Building
0374	Carver-Hawkeye Arena
0395	Hansen Football Performance Ctr

University Parking & Transportation Department

Bldg/Property #	Building Name
0183	Iowa Memorial Union Parking Ramp
0220	Hospital Parking Ramp 1
0318	West Campus Transp Ctr - Parking
0403	Hospital Parking Ramp 2
0412	Hosp Parking Ramp 3
0422	N Campus Parking Ramp
0430	Pappajohn Business Bldg
0433	Hospital Parking Ramp 4
0443	Newton Road Ramp
0735_01	A&P Lot
0735_02	South Quad Lot #14
0735_03	West Stadium Lot #43
0735_04	Field House Lot #41/20 G
0735_05	Hillcrest Lot #13
0735_06	Theatre Bldg Lot #28
0735_07	Hancher Lot #55
0735_08	Dental Sci Lots #33, #40, #44
0735_09	Boyd Law Lot
0735_09	Boyd Law Lot
0735_1	Stanley Lot #24
0735_11	CHA West Lot #46
0735_12	Arena Commuter Parking Lot #75
0735_13	HPR #3 (Chiller Ramp)
0735_14	Seashore Hall Lot #2
0735_15	N Campus Parking Rmp (Bldg #422)
0735_16	Library Lot #3 (#192)
0735_17	North Hall Lot #18
0735_18	Chemistry Lot #8
0735_19	Pappajohn Bus Adm Bldg Ramp #435
0735_2	Pharmacy Lot
0735_21	USB Lot #4
0735_22	Football Practice Field Lights
0735_23	Hawkeye Tennis & Rec Lot #35
0735_24	College of Public Health Lot #42
0735_25	Arena Lot #75 Shelt (Bldg #312)
0735_26	West Campus Trans Center Lot #43
LOT_38	PARKLAWN LOT #38

Carver College of Medicine

Bldg/Property #	Building Name
0025	Pappajohn Biomedical Discov Bldg
0028	Medical Laboratories
0034	Medical Education Building
0064	Medical Research Center
0182	Medical Research Facility
0204	Bowen Science Building
0401	Eckstein Medical Research Bldg
0425	College of Medicine Admn Bldg
0447	Medical Education Research Fac
0455	Carver Biomedical Research Bldg

APPENDIX I

Legionella Exposure Control Plan

SUBJECT/TITLE: **WATER MANAGEMENT PLAN FOR PNEUMONIAS CAUSED BY LEGIONELLA SPECIES & WATERBORNE PATHOGENS (e.g. PSEUDOMONADS)**

PURPOSE: To prevent transmission of *Legionella species* in the University of Iowa Hospitals and Clinics (UIHC).

To facilitate the diagnosis of pneumonias and other infections caused by *Legionella species*.

To describe how UIHC will respond if patients acquire healthcare-associated legionella infection or if *Legionella species* are detected in the UIHC's water.

To facilitate steps that determine water management practices to reduce proliferation of water borne pathogens during construction and operations.

DEFINITIONS: None

POLICY:

A. UIHC will report all *Legionella* infections (both community-acquired and healthcare-associated) to the Iowa Department of Public Health (IDPH; Infection Control Policy # [IC-07.004](#)).

B. To maintain the lowest risk possible for healthcare-associated infections caused by *Legionella* and other waterborne pathogens, the UIHC will:

1. Maintain amelioration systems on the water systems in the following buildings:

Building	Treatment
Boyd Tower	Chlorine Dioxide
Roy Carver Pavilion	Copper Silver (Hot water only)
John Colloton Pavilion	Chlorine Dioxide
John Pappajohn Pavilion	Chlorine Dioxide
Pomerantz Family Pavilion	Chlorine Dioxide
Stead Family Children's Hospital	Chlorine Dioxide
Center for Disabilities and Development	Chlorine Dioxide

2. Not install water features that could produce aerosols, such as water walls, inside or outside of the hospital. Other types of water features such as aquariums will be constructed as an enclosed water feature and maintained only by contracted staff and not by staff involved inpatient care.
 3. Identify and remove dead legs and take domestic water pipes back to the main risers.
- C. Clinicians should consider the diagnosis of Legionnaires' disease in any patient, (particularly those who are immunocompromised or who have a serious underlying disease such as heart disease or chronic obstructive pulmonary disease) who acquires healthcare-associated pneumonia (pneumonias that become apparent > 2 days after admission).
- D. UIHC in collaboration with University of Iowa water utility plant will:
1. Ensure that construction or renovation projects that involve hospital water systems will include commissioning steps such as dry pressure testing domestic water pipes when possible disinfection treatment, water flushing, and coliform bacteria and heterotrophic plate count (HPC) microbial testing.
 2. Follow UIHC standardized water sampling protocols.
 3. Support a Water Management Team comprised of members from Administration, Engineering Services, The Program of Hospital Epidemiology and other members as needed to assess the effectiveness of the water management program and make changes as necessary.

PROCEDURES: LEGIONELLA

A. CLASSIFICATION AND REPORTING OF *LEGIONELLA* INFECTIONS

1. Staff in the Program of Hospital Epidemiology (PHE) will classify *Legionella* infections as community-acquired, healthcare-associated, or possibly healthcare-associated based on the criteria developed by the Centers for Disease Control and Prevention.

B. DIAGNOSIS OF *LEGIONELLA* INFECTIONS

1. Clinicians evaluating patients who might have *Legionella* infections should:
 - a. Submit urine samples to the Microbiology Laboratory for *Legionella pneumophila* serogroup 1 urine antigen testing. Note: This test detects only serogroup 1, which is the most common cause, but not the only cause, of *Legionella* infections.
 - b. Submit sputum specimens, BAL fluid, tissues, or pus to:
 - i. Confirm a positive *Legionella* urinary antigen.
 - ii. Aid epidemiological investigations.
 - iii. Identify infections caused by *Legionella pneumophila* in serogroups other than serogroup 1 or by other *Legionella* species.
2. If clinicians strongly suspect that a patient has an infection caused by *Legionella* species and the urinary antigen is negative, the clinicians should send appropriate specimens (usually respiratory secretions but occasionally pus from a wound) for culture to confirm the diagnosis. Culture is necessary in such cases because the urinary antigen detects only *Legionella pneumophila* serogroup 1; it does not detect other serogroups of *Legionella pneumophila* or other species of *Legionella*.
3. Clinicians may be requested to submit acute and convalescent serum samples at appropriate intervals, but the results will not be helpful for managing individual patients.
4. Clinicians may consult the Infectious Diseases Division to facilitate diagnosis and treatment of patients with community-acquired or healthcare-associated pneumonias, including those caused by *Legionella*. Page the Infectious Diseases fellow on the inpatient consultation service.

C. ASSESSMENT AND MAINTENANCE OF THE UIHC'S WATER SYSTEM

Note: These procedures are based on the CDC's Guidelines and the ASHRAE Legionella Standard 188-2018 cited at the end of this document.

1. The UIHC's water supply at recommended locations will be cultured if healthcare-associated or possible healthcare-associated cases of *Legionella* infection are identified.
 - a. Water from the patient's room will be cultured (including sinks and showers).
 - b. If the case is healthcare-associated and *Legionella* grew from a specimen obtained from the patient and from the water in the patient's room, these isolates will be compared by molecular typing. If contemporaneous water cultures are negative, the patient's isolate will be compared with banked water isolates of *Legionella* from prior (historical) samples taken from UIHC water systems in each pavilion, to include any pavilion in which the patient received care.

- c. If the case occurred in a building with an amelioration system, the chlorine dioxide or copper and silver levels will be tested at the same time the samples are obtained for culture.
2. Engineering Services (ES)/Facilities maintains a diagram of domestic heater tank distribution system that includes hot water ties between RCP/JCP, SFCH JCP/JPP, JPP/PFP, and PFP/COE for UIHC main campus.
3. ES maintains permanent 0.2 µm filters on water sources in patient care units as identified through a risk assessment approved by the Infection Control Committee.

D. ROUTINE PROCEDURES

1. Eight peripheral samples will be cultured (four from hot water, four from cold water) for *Legionella* species at least twice yearly on each inpatient care unit.. Chlorine dioxide levels are obtained at the same time when water is obtained for cultures in pavilions with chlorine dioxide mitigation systems.
2. Chlorine dioxide levels will be obtained monthly from water taken from the hot and cold mains and all serviced pavilions. The chlorine dioxide source level target should be 0.40-0.80 ppm at the main and 0.20 – 0.80 ppm at distal sites. **The levels may fluctuate based on water usage.** If measured levels are found outside of this range, remedial actions will be considered, taken and documented.
3. Copper and silver levels are tested in the Carver Pavilion monthly at both the source and distal sites. The copper and silver levels may fluctuate depending on water usage and the mineral composition of the water upon entry to the facility. The measured levels are reviewed quarterly by the Water Management Team to determine, if remedial actions need to be taken.
5. The faucets and showers in occupied patient rooms are flushed daily by staff from Environmental Services (EVS).
6. The faucets and showers in unoccupied inpatient-care areas are flushed by staff from EVS at least weekly and just before a patient occupies the room.
7. Water lines in areas undergoing renovation or construction are either flushed weekly for 10 minutes by under supervision of the Project Manager or taken out of service. If the system is taken out of service, it should be drained. Before it is returned to service, the line must be chlorinated, flushed, re-filled, and then flushed weekly until the space has been turned over to the occupants and have the following testing has been completed:
 - a. Inpatient units and areas that serve inpatient units:
 - i. Will be cultured (hot water, cold water) for *Legionella* species
 - ii. Buildings with an amelioration system will have disinfection levels tested.

8. If an inpatient area must be occupied before water test results are completed, showers and faucets must be filtered using point of use 0.2 µm filters. The filters can be removed after the negative test result is reported to ES.

E. IF ANY SITES ARE POSITIVE FOR GROWTH OF *LEGIONELLA* SPECIES (IN THE ABSENCE OF HEALTHCARE-ASSOCIATED LEGIONELLOSIS), THE FOLLOWING PROCEDURES WILL BE FOLLOWED:

1. PHE staff will assess whether patients with healthcare-associated pneumonia of unknown etiology (i.e., an etiologic agent was not identified by routine cultures) were evaluated for *Legionella* infection with the urinary antigen test or with cultures.
2. PHE staff will work with clinicians and the Joint Office for Marketing and Communications to educate clinicians and other staff about the pertinent issues.
3. Representatives of PHE, ES, and the Clinical Microbiology Laboratory will meet to assess the problem and plan for further testing and remediation.
4. The group will assess the following parameters:
 - a. Water temperature,
 - b. Flushing of peripheral sites,
 - c. Water treatment chemical levels.
5. After this group has reviewed and remediated deficiencies in the water treatment and distribution systems, water cultures will be repeated on the Pavilion in which the positive cultures were found, every 2-4 weeks for a three-month period. If cultures remain persistently positive for three months after remediation, the group will review the water distribution system again and jointly develop additional recommendations.
6. For transplant units, in the absence of healthcare-associated cases, water restrictions will be lifted when two consecutive water culture surveys from the Pavilion have been negative for growth of all *Legionella* species.
6. In the absence of cases, water use will not be restricted on general medical, pediatric, or surgical units.
7. If positive cultures for *Legionella* are found in a Pavilion that houses a bone marrow or solid organ transplant unit, all transplant patients on the transplant unit will be placed on water restrictions:
 - a. Do not shower until 0.2µm filters are placed on showers; bag baths will be used until filters are placed on showers

- b. Use sterile water to flush feeding tubes
 - c. Use sterile water for cleaning the skin around surgical incisions
 - d. Use filtered (through 0.2 µm filter) or bottled water for drinking and brushing teeth
 - e. Do not use jets on whirlpool tubs unless the water has been filtered through 0.2µm filters
 - f. Do not use ice machines unless filtered with 0.2 µm filters
8. Water restrictions will be lifted for any peripheral sites fitted with filters approved for use in prevention of legionellosis.
 - 9.

F. IF SITES ARE POSITIVE FOR GROWTH OF *LEGIONELLA* SPECIES AND ARE LINKED TO CASES OF HEALTHCARE-ASSOCIATED *LEGIONELLA* INFECTION

1. A *Legionella* working group including representatives from: Administration (Chief Medical Officer, Chief Quality Officer, and others as needed), PHE, ES, EVS, the Director of the Clinical Microbiology Laboratory, the Chief Nursing Officer, Associate Directors of Nursing from affected areas, and nurse managers from affected areas the Joint Office for Marketing and Communications, and Legal Services will be convened to assess and manage the issue.
2. Water restrictions (see above E7) may be instituted on the pavilion while an expanded culture survey is performed, and *Legionella* control measures are reviewed with ES. Parameters to be reviewed will, at minimum, include:
 - a. Water temperature of hot water tank and distal sites.
 - b. Water treatment chemical levels.
 - c. Adequacy and performance of the mitigation system (copper-silver or chlorine dioxide).
3. PHE staff will assess whether patients with healthcare-associated pneumonia of unknown etiology (i.e., an etiologic agent was not identified by routine cultures) were evaluated for *Legionella* infection with the urinary antigen test or with cultures.
4. After the group has reviewed the data and remediated deficiencies in the water treatment and distribution systems, water cultures will be repeated every 2-4 weeks on the affected

pavilion (at least six sites per floor, including sites previously positive for *Legionella* species).

5. Water restrictions will be lifted when no further cases of healthcare-associated legionellosis have been detected for > one month, and when two consecutive culture surveys on the entire Pavilion have been negative for growth of the *Legionella* species that caused the healthcare-associated cases.

G. IF THE PLUMBING SYSTEM IN A PAVILION IS DISRUPTED

1. Extended disruptions in the domestic water system will require an infection control risk assessment. Staff from PHE, ES, EVS, and necessary members of the larger group (e.g., the Associate Directors of Nursing and nurse managers from the affected area) will discuss the extent of the disruption and to identify the steps necessary to protect patients, visitors, and staff from exposure to *Legionella*.
2. Bottled water will be provided to the affected areas.
3. If the water shut down extends greater than 24 hours supplemental water will be provided, and further planning may occur through the hospital incident command system.
 - a. Water samples for *Legionella* species and heterotrophic plate counts including fecal coliform will be obtained. See section, water management for other waterborne pathogens for additional guidance.
- 4.. After the disruption is corrected, all faucets and showers in the affected areas will be flushed by staff from ES and EVS until the water is clear.

RESPONSIBILITIES:

A. PHE IS RESPONSIBLE TO:

1. Monitor patients for healthcare-associated legionella infections and to maintain compliance with Federal and State regulatory authorities.
2. Review results of clinical and water cultures.
3. Collaborate with staff from ES, the Clinical Microbiology Laboratory, EVS, clinical services, outside consultants, and other groups involved in preventing *Legionella* infections.

B. ES IS RESPONSIBLE TO:

1. Maintain the *Legionella* amelioration systems.
2. In collaboration with staff from PHE, determine the specific sites to be cultured for routine surveillance and to evaluate the water supply further if some cultures are positive or if a patient acquires healthcare-associated or possible healthcare-associated *Legionella* infection.
3. Oversee the water sample collection process and maintain the log of all sites cultured and the culture results.
4. Obtain water samples to test and monitor disinfectant levels.
5. Work cooperatively with the University Water Utility Department
6. Confirms with Capital Management that water mitigation plan including flushing is maintained at construction sites.
7. Collaborate with PHE, the Clinical Microbiology Laboratory, EVS, clinical services, and other groups involved in preventing *Legionella* infections.

C. EVS IS RESPONSIBLE TO:

1. Flush faucets and showers daily and as needed in special circumstances.
2. Flush faucets and showers in unoccupied rooms at least weekly and just before a patient occupies the room.
3. Collaborate with PHE, the Clinical Microbiology Laboratory, clinical services, and other groups involved in preventing *Legionella* infections.

D. CAPITAL MANAGEMENT IS RESPONSIBLE TO:

1. Follow water pathogen mitigation program at construction sites including strategies outlined on Infection Control Risk Assessment (ICRA).
2. Collaborate with PHE, the Clinical Microbiology Laboratory, EVS, clinical services, and other groups involved in preventing *Legionella* infections.

E. THE CLINICAL MICROBIOLOGY LABORATORY IS RESPONSIBLE TO:

1. Report results to appropriate clinicians, PHE, and ES.
2. Collaborate with PHE, clinical services, EVS, and other groups involved in preventing *Legionella* infections.

PROCEDURES: WATER MANAGEMENT FOR OTHER WATERBORNE PATHOGENS

A. WATER SYSTEMS ACTIVATION STEPS:

1. Disinfection shock performed by UI Water Utility Plant.
2. Rinse with chlorine dioxide activated feed water.
3. Newly installed domestic water pipes must remain dry prior to occupancy. If pipes become wet during pressure testing, a flushing program must be initiated no later than 4 weeks after the test or if the pipes are wet. It is recommended that nitrogen or air be used for the pressure testing if occupancy is greater than 4 weeks or if a flushing program cannot be initiated and/or maintained. Microbial testing will then occur as stipulated above after the pipes are placed back into service.

4. WATER TESTS PRIOR TO OCCUPANCY IN ADDITION TO *LEGIONELLA* TESTING:

- a. Fecal coliform drinking water standard with result of <1 cfu/100 ml.
- b. Heterotrophic plate count that has been incubated for 7 days. Total plate count should be <500 cfu/ml.
- c. If levels are found to be above the stated ranges, epidemiology, UI water utility plant and Engineering Services will determine need for chlorination and additional testing.

C. FOR WATERBORNE PATHOGENS:

1. Water cultures will be repeated on the Pavilion in which the positive cultures were found, every 2-4 weeks for a three-month period. If cultures remain persistently positive for three months after remediation, the group will review the water distribution system again and jointly develops additional recommendations.

REFERENCES:

ASHRAE Standard 188: Legionellosis: Risk Management for Building Water Systems (ANSI approved)

Centers for Disease Control and Prevention. Guidelines for Prevention of Nosocomial Pneumonia. MMWR 53 (RR-03); 12-15, 2004.

Centers for Disease Control and Prevention. Guidelines for environmental infection control health-care facilities: recommendations of CDC and the Healthcare Infection Control Practices Advisory Committee (HICPAC). MMWR 2003; 52 (No. RR-10): 1–48 and Appendix.
“Errata: Vol.52 (No. RR-10)” (MMWR Vol. 52 [42]: 1025–6), October 24, 2003.

Legionellosis: Risk management for Building Water Systems. ANSI/ASHRAE Standard 188-2015.

Sehulster LM, Chinn RYW, Arduino MJ, Carpenter J, Donlan R, Ashford D, Besser R, Fields B, McNeil MM, Whitney C, Wong S, Juranek D, Cleveland J. Guidelines for environmental infection control in health-care facilities. Recommendations from CDC and the Healthcare Infection Control Practices Advisory Committee (HICPAC). Chicago IL; American Society for Healthcare Engineering/American Hospital Association; 2004.

Rangel-Frausto MS, Rhomberg P, Hollis RJ, Pfaller MA, Wenzel RP, Helms CM, Herwaldt LA. Persistence of *Legionella pneumophila* in a hospital’s water system: A 13-year survey. *Infect Control Hosp Epidemiol* 20:793-7, 1999.

Source: Program of Hospital Epidemiology

Water Management Summary

	Routine procedures	Possible or definite healthcare-associated legionellosis	<i>Legionella</i> grown from water in the absence of healthcare-associated legionellosis	<i>Legionella</i> grown from water; possible or definite healthcare-associated legionellosis
Patient specimens	Obtain urine for <i>Legionella</i> urinary antigen from patients with healthcare-associated pneumonia and from patients discharged from UIHC and readmitted within 10 days with signs/symptoms of pneumonia. If the urinary antigen is positive or the clinician suspects a serogroup other than group 1, obtain respiratory secretions for culture.			
Water cultures	8 peripheral sites on each floor of each patient care pavilion will be cultured (4 from hot water, 4 from cold water) for <i>Legionella</i> species at least 2 times each year. Perform heterotropic plate count at the main water supply annually.	Water cultures will be obtained from the room(s) in which the patient stayed during the incubation period.	Water cultures will be repeated on the Pavilion in which the positive cultures were found, every 2-4 weeks for a 3-month period. If cultures remain persistently positive for 3 months after remediation, additional interventions will be necessary.	Water cultures will be obtained from the room(s) in which the patient stayed during the incubation period. Water cultures will be repeated every 2-4 weeks on the affected pavilion (at least 6 sites per floor, including sites previously positive for <i>Legionella</i> species).
		Representatives from Hospital Epidemiology, Microbiology Lab, and Engineering Services will determine how many additional cultures will be		

	Routine procedures	Possible or definite healthcare-associated legionellosis	<i>Legionella</i> grown from water in the absence of healthcare-associated legionellosis	<i>Legionella</i> grown from water; possible or definite healthcare-associated legionellosis
		obtained and the sites from which they will be obtained.		
Water restrictions	0.2-micron filters on water sources on patient care units as identified through a risk assessment approved by the Infection Control Committee.	<ul style="list-style-type: none"> • If water cultures are positive on a unit, or a unit has an attributed healthcare-associated case, a 0.2-micron filters will be placed on all sinks and shower heads in the unit and discontinue use of ice machines • If positive cultures are found in a pavilion that houses solid organ transplant unit, all transplant patients on the transplant units in the pavilion will have 0.2-micron filters placed on all sinks and shower heads • If water filters are indicated but not available, institute water restrictions: <ul style="list-style-type: none"> • No showers; use bag baths • Use sterile water to flush feeding tubes • Use sterile water for cleaning the skin around surgical incisions • Use filtered (0.2 micron) or bottled water for drinking and brushing teeth • Do not use jets on whirlpool tubs unless the water has been filtered (0.2 micron) • Do not use ice machines unless filtered with 0.2 µm filters • Discontinuing filters (or water restrictions if filters were not available): <ul style="list-style-type: none"> • Units with healthcare-associated cases: discontinue when no further cases of healthcare-associated legionellosis have been detected for >1 month, <u>and</u> 2 consecutive culture surveys in the affected area have been negative for the implicated <i>Legionella</i> species. • Units with positive cultures but no healthcare-associated cases: discontinue when 2 consecutive culture surveys in the affected area have been negative for growth. 		

	Routine procedures	Possible or definite healthcare-associated legionellosis	<i>Legionella</i> grown from water in the absence of healthcare-associated legionellosis	<i>Legionella</i> grown from water; possible or definite healthcare-associated legionellosis
		<ul style="list-style-type: none"> • Solid organ transplant units with no healthcare-associated cases: discontinue when 2 consecutive water culture surveys from the pavilion have been negative for growth of all <i>Legionella</i> species. 		
Evaluation of chlorine dioxide system	Chlorine dioxide levels will be obtained monthly from water taken from the hot and cold mains and all serviced pavilions. The chlorine dioxide source level target should be 0.40-0.80 ppm at the main and 0.20 – 0.80 ppm at distal sites. If measured levels are found outside of this range, remedial actions should be taken and documented.	<p>Chlorine dioxide levels will be obtained as per routine procedure.</p> <p>Additional sites may be tested at the discretion of the <i>Legionella</i> working group or outside consultants.</p>		

	Routine procedures	Possible or definite healthcare-associated legionellosis	<i>Legionella</i> grown from water in the absence of healthcare-associated legionellosis	<i>Legionella</i> grown from water; possible or definite healthcare-associated legionellosis
Evaluation of copper silver system	<p>Copper level is tested in the Carver Pavilion monthly at a minimum at both the source and distal sites. The copper and silver levels may fluctuate depending on water volume usage and the mineral composition of the water upon entry to the facility. The measured levels are reviewed quarterly by the Water Management Team to determine, if remedial actions need to be taken.</p> <p>.</p>	Copper and silver levels will be tested.		
Flushing of plumbing systems in inpatient areas	<p>Faucets and showers:</p> <ul style="list-style-type: none"> • Occupied patients rooms: flush daily • Unoccupied inpatient areas: flush at least weekly and before a patient occupies the room 	Flushing should be continued or enhanced.		

	Routine procedures	Possible or definite healthcare-associated legionellosis	<i>Legionella</i> grown from water in the absence of healthcare-associated legionellosis	<i>Legionella</i> grown from water; possible or definite healthcare-associated legionellosis
Maintenance of plumbing systems during renovation and construction	Water lines in areas undergoing renovation or construction should either be flushed weekly or taken out of service. Lines will be flushed weekly for 10 minutes.. If the system is taken out of service, it should be drained. Before it is returned to service, the line must be chlorinated, flushed, re-filled, and then flushed weekly until the space has been turned over to the occupants.	Determine whether proper procedures are being followed.		

APPENDIX J

Chilled Water Business Continuity Plan

Chilled Water
Business Continuity – Loss of CW Capacity and Response Plan
CWS-OPS-EMERGENCY PROCEDURE

Rev. 3 May 30, 2019
Original by Ben Fish (July 2018)
Last revision by Ben Anderson



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E.Return to normal⁷

F. Test procedure for Chilled Water Business Continuity – Building Operations BAS Program⁷
Purpose⁷

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·Appendix II: CW Business Continuity – Building Criticality List⁸

Purpose

This procedure provides information and guidance for the University of Iowa Chilled Water Plant system in the event of an unexpected and significant loss of capacity, which affects the availability of chilled water to campus buildings. The procedure provides guidance to Chilled Water production on identification for a loss of capacity, steps to reduce demand in non-critical buildings, and further guidance to reduce demand in critical buildings.

The goal of this procedure is to prioritize delivery of Chilled Water to critical buildings by shutting down non-critical chilled water supply in the following order:

1. Building Operations initiated BAS program
2. Then by Chilled Water Plant operator manual closing of interface valves

SOP Review and Updates

This procedure shall be reviewed on an annual basis in Spring prior to cooling season with Chilled Water production, Building Operations, and Building Maintenance for the following:

- Procedure review to gain alignment on what and who.
- Updates based on past year of operations
- BAS program updates based on new buildings or changes to existing buildings (attachment 1)
- Building CW criticality list updates based on new buildings or changes to existing buildings (attachment 2)

An AiM PM shall be setup to provide notification for review and shall be tracked as a Business Critical PM.

Normal Operations, Supply Issue Identification, Response Plan

A. Normal Operation - Monitoring and System Parameters (CW Plant)

1. The Chilled Water plant operator shall monitor and start/stop equipment to maintain system parameters per the following ranges:

EQUIPMENT	EQUIPMENT ID	CONDITION	NORMAL RANGE
Chilled Water loop pressure	PI Tag: WCP_00_PDT_000D	Normal operating pressure	20-50 PSID
Chilled Water loop temperature	CW Building Supply Temps	Normal operating temperature	42-45 F
Chilled Water building interface valves	Building CW Interface Valve CO	Normal operating range	20% - 95% CO

B. Chilled Water Supply Issue Identification (CW Plant)

1. Ensure all online chillers and distribution pumps are at full load.
2. Start up any standby chillers that are available.

- a. Start-up of chillers will send warm water to the chilled water loop, causing a short term rise in loop temperature.
3. Monitor the chilled water loop for at least 30 minutes and up to 60 minutes to absorb the warm water from standby chiller starts.
4. Notify the BLS point of contacts that the Chilled Water Business Continuity Plan may be needed.
5. Identify specific Chilled Water equipment that has failed or that is out of service which is preventing demand to be met.
 - a. For example, the Northwest Plant compressor seal failed and is out of service for the near future.
6. Verify that Chilled Water system parameters as follows:
 - a. Review and confirm the west side building Cimplicity Screen
 1. Confirm interface vales are at 100%
 - b. Review and confirm the building supply temps are trending up and out of range.
 - c. Review and confirm the PSID as indicated by PI tag WCP_00_PDT_000D, and also indicated on the main distribution page is less than 20 and not trending upward.
 - d. Confirm that the identified Chilled Water equipment failure will remain out of service for more than an hour.
 - e. If these items are all true, then the Chilled Water Business Continuity Plan is required to reduce demand.

C. Contact UIU and BLS leaders and recommend Chilled Water Business Continuity Plan (CW Plant, BLS, and UIU)

1. Communicate with UIU Associate Directors of current risk and gain alignment on plan.

Name	Role	Contact Number
Ben Anderson	UIU Associate Director	
Ben Fish	UIU Associate Director	
Rick Ney	UIU Associate Director	

2. Contact any two of the individuals below to get concurrence that the Chilled Water Business Continuity Plan program will be enacted:

Name	Role	Contact Number
Katie Rossmann	Manager, Data Analytics & Commissioning	
Tom Moore	Senior Manager, Building Ops and Maint	
Julie Sychra	Associate Director, Building Ops and Maint	
Dave Ollendick	Engineer, Controls	
Ray Newkirk	Engineer, Controls	

3. Consider a conference call with BLS, UIU, and FM leaders to discuss customer impact and risk. This will ensure that all FM leaders are aligned on the next steps.

4. Manager, Data Analytics and Commissioning will oversee the implementation of the **CW Business Continuity - Building Operations BAS Action List** activation and report back to the initiator of this procedure when the program has been executed.
 - a. This program is pre-designed to reduce demand in non-critical buildings using the building automation system. This is preferred during longer outages because important loads such as IT closets in these buildings are still provided Chilled Water.
5. Contact the chilled water plant operator at the control room to let them know the program is being activated.
6. Initiate the campus Chilled Water Business Continuity communication procedure (**FM@YS and Bob Lane?**)
7. Monitor the chilled water loop pressure for an increase in PSID over the next 60 minutes.
8. If the loop pressure moves in the right direction, continue to monitor the system parameters until all ranges are normal. Monitor equipment repairs to determine when the Chilled Water reduction program can be discontinued.
9. If the loop temperature and pressure continue to move in the wrong direction, proceed to CW Plant Operator – Manual Interface Valve closing.

D. CW Plant Operator - Manual Interface Valve closing

1. Communicate with UIU Associate Directors of current risk and gain alignment on plan.

Name	Role	Contact Number
Ben Anderson	UIU Associate Director	
Ben Fish	UIU Associate Director	
Rick Ney	UIU Associate Director	

2. Prior to proceeding with any of the steps below, contact any two of the individuals below to get concurrence that the next steps can proceed:

Name	Role	Contact Number
Katie Rossman	Manager, Data Analytics & Commissioning	
Tom Moore	Senior Manager, Building Ops and Maint	
Julie Sychra	Associate Director, Building Ops and Maint	
Dave Ollendick	Engineer, Controls	
Ray Newkirk	Engineer, Controls	

- a. Use the building priority list in Appendix II and place in manual and close the interface valve on all of the priority 3, 4 and 5 buildings.
 1. Using the CW Business Continuity – Building Criticality List, the CW plant operator shall close the interface valves on all priority 3, 4, and 5 building.

2. Monitor the chilled water loop pressure for an increase in PSID over the next 60 minutes.
3. If the loop temperature and pressure move in the right direction, move to step H to determine when the Chilled Water reduction program can be discontinued.
4. If the loop temperature and pressure continue to move in the wrong direction, use the **CW Business Continuity – Building Criticality List** in Appendix II and place in manual and close the interface valve on all of the priority 2 buildings.

E. Return to normal

1. When the chilled water loop temperature and PSID are in normal range and chiller capacity allows, discontinue the Chilled Water reduction program.
2. Place all chilled water interface valves back into auto.
3. Manager, Data Analytics and Commissioning will oversee the discontinuation of the Chilled Water reduction program and report back to the initiator of this procedure building systems have been returned to normal.
4. Notify the communication team that the campus has been returned to normal so that notification can be sent out per the campus notification procedure.

F. Test procedure for Chilled Water Business Continuity – Building Operations BAS Program Purpose

The purpose of this temporary procedure is to test the programming that will shut down non-critical campus equipment that uses chilled water. This test is designed to verify that the equipment will shut down and restart as intended. The test is **not** designed to verify the amount of chilled water load reduction to be realized during an actual emergency.

Test Procedure *(Person responsible for the step listed in red.)*

1. **Pre-Checks (DATE TBD):**
 - a. Verify that all equipment on the attached equipment list is in automatic, enabling the programming to perform the shutdown as intended. *Tom Moore*
 - b. Verify that Hancher and Theater buildings do not have events scheduled for the following morning. *Dave and Ray*
2. **Test day (Date TBD):** At 8:30 am, activate the Chilled Water Business Continuity – Building Operations BAS Program. *Dave and Ray*
3. Following the activation of the program, systematically verify that all equipment that was to shut down did so appropriately and that all equipment to remain on do so per the attached list. *Dave and Ray with assistance from other BLS staff.*
 - a. If any equipment fails to shut down as designed, call Tom Moore to verify that the equipment is in auto. If the equipment is in auto, document the failure to shut down for further investigation later.
 - b. Chilled Water plant operator to monitor interface valves for any abnormalities. Call Tom Moore with any concerns.
4. After 15 minutes, deactivate the CW Emergency Loss of Capacity program. This will begin the timer for restart of equipment.
 - b. Verify that equipment restarts as designed per the attached list. *BLS staff to verify equipment has restarted per the attachment.*

- b. If any equipment fails to restart as designed, call Tom Moore to have the equipment physically checked for problems. If no physical problems are seen, restart the equipment and document the failure to restart for further investigation later.
5. Once all equipment has been restarted, send notice to campus through work control that the test is completed. *Steph*

- **Appendix I: CW Business Continuity - Building Operations BAS Program**

https://iowa.sharepoint.com/:x:/r/sites/fm/uiu/production/chilledwater/_layouts/15/Doc.aspx?sourcedoc=%7B8D50A0DD-D60B-4761-88EA-22C3DFB2D4C3%7D&file=Air%20Conditiong%20Reduction%20Building%20List.xlsx&action=default&mobileredirect=true

- **Appendix II: CW Business Continuity – Building Criticality List**

https://iowa.sharepoint.com/:x:/r/sites/fm/uiu/production/chilledwater/_layouts/15/Doc.aspx?sourcedoc=%7BA3B534C4-056F-41FB-B69E-CF710FDFAE7D%7D&file=CWLoadPrioritiesUpdate.xlsx&action=default&mobileredirect=true

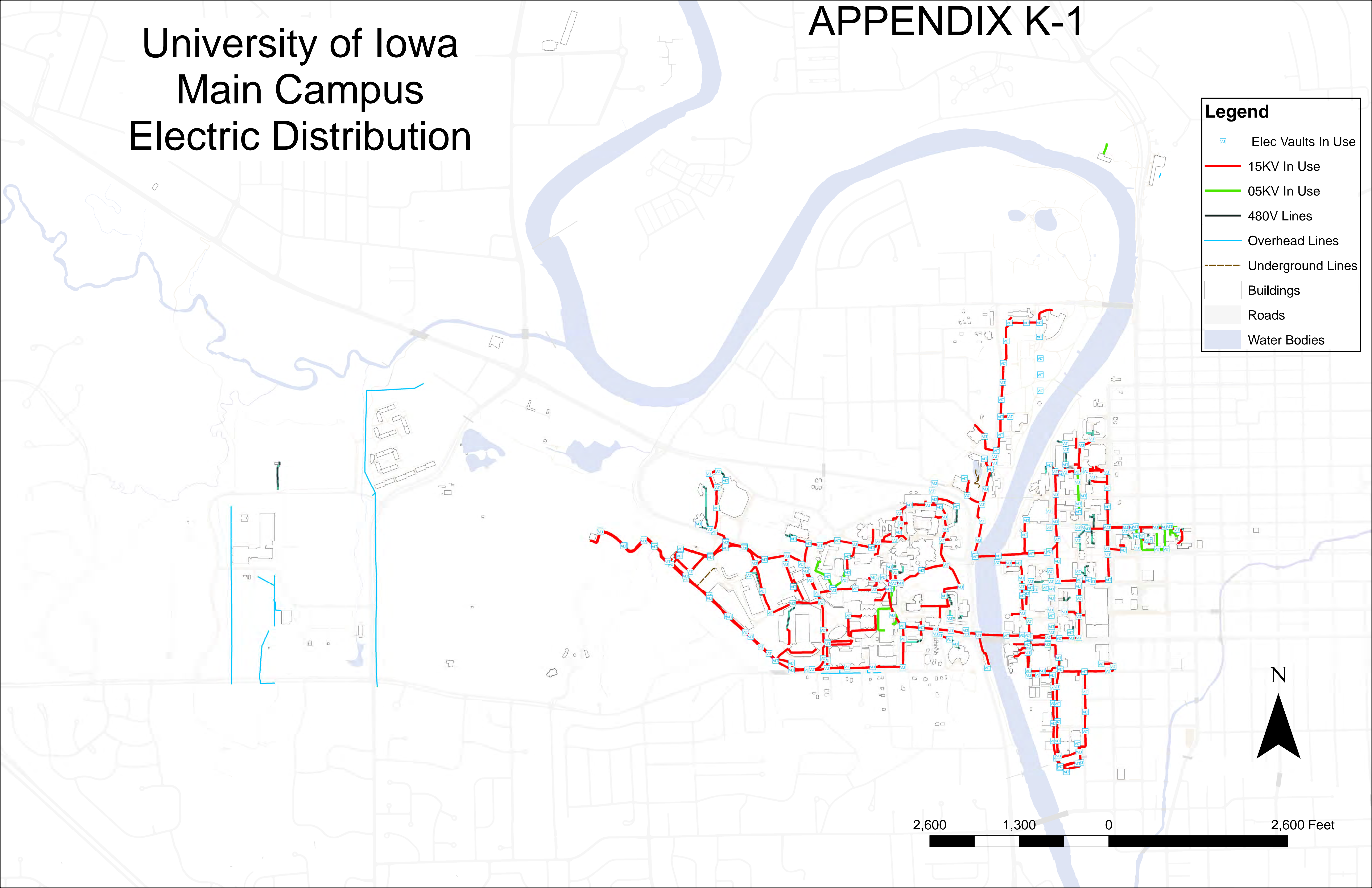
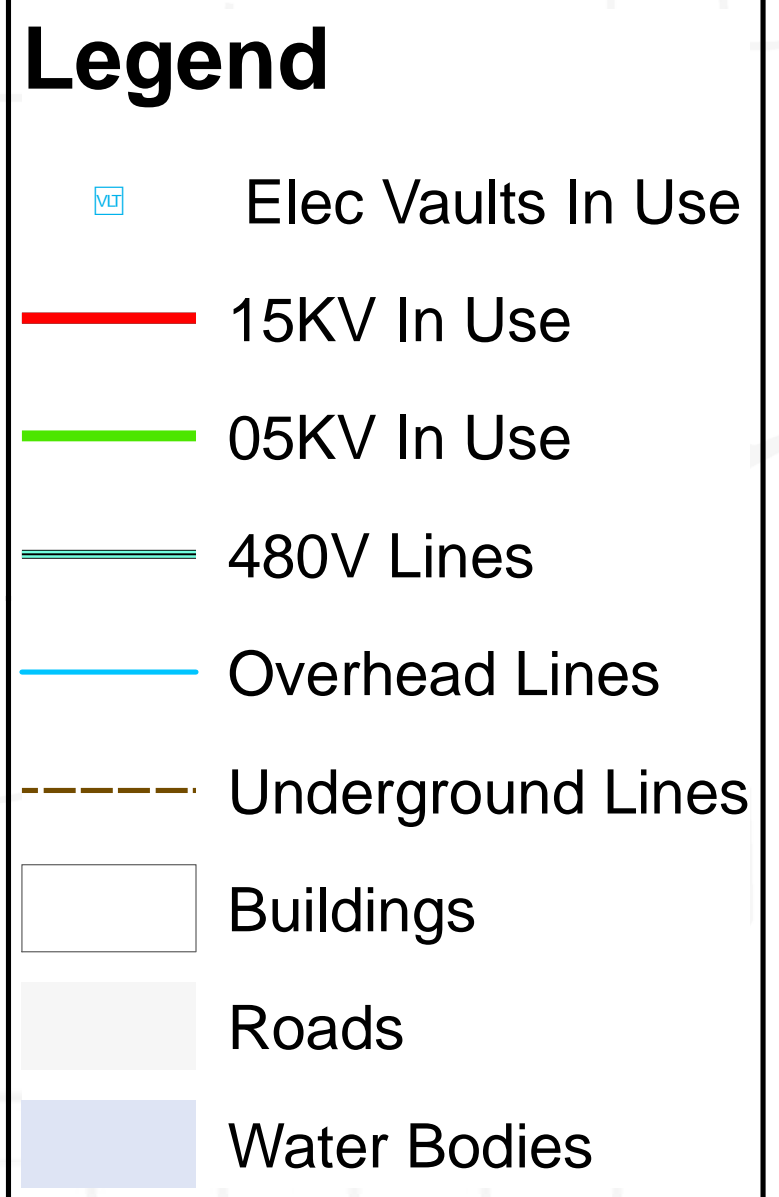
APPENDIX K

Utility Maps

Please see attached.

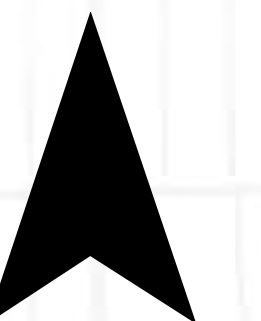
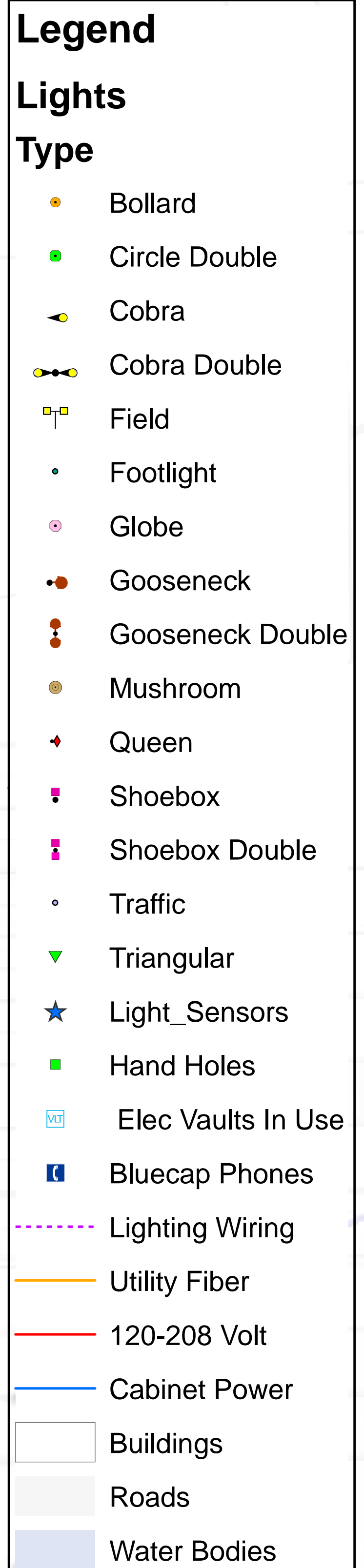
University of Iowa Main Campus Electric Distribution

APPENDIX K-1



University of Iowa Main Campus Electric Lighting

APPENDIX K-1



University of Iowa Research Park and Oakdale Campus Electric Distribution

Legend

15KV In Use

05KV In Use

480V Lines

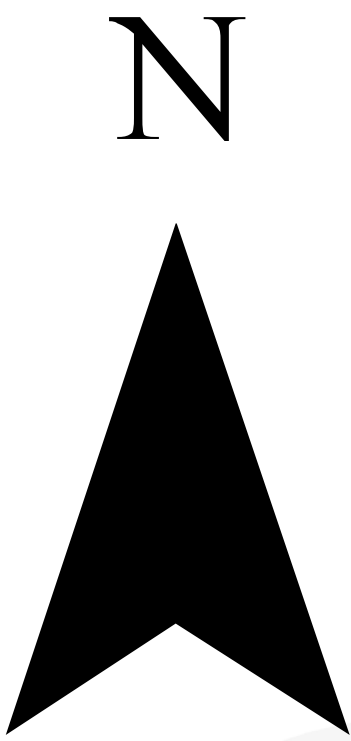
Overhead Lines

Underground Lines

Buildings

Roads

Water Bodies



APPENDIX K-1

University of Iowa
Research Park and
Oakdale Campus
Electric Lighting

Legend

Lights

Type

Bollard

Circle Double

Cobra

Cobra Double

Field

Footlight

Globe

Gooseneck

Gooseneck Double

Mushroom

Queen

Shoebox

Shoebox Double

Traffic

Triangular

Light_Sensors

Hand Holes

Elec Vaults In Use

Bluecap Phones

Lighting Wiring

Utility Fiber

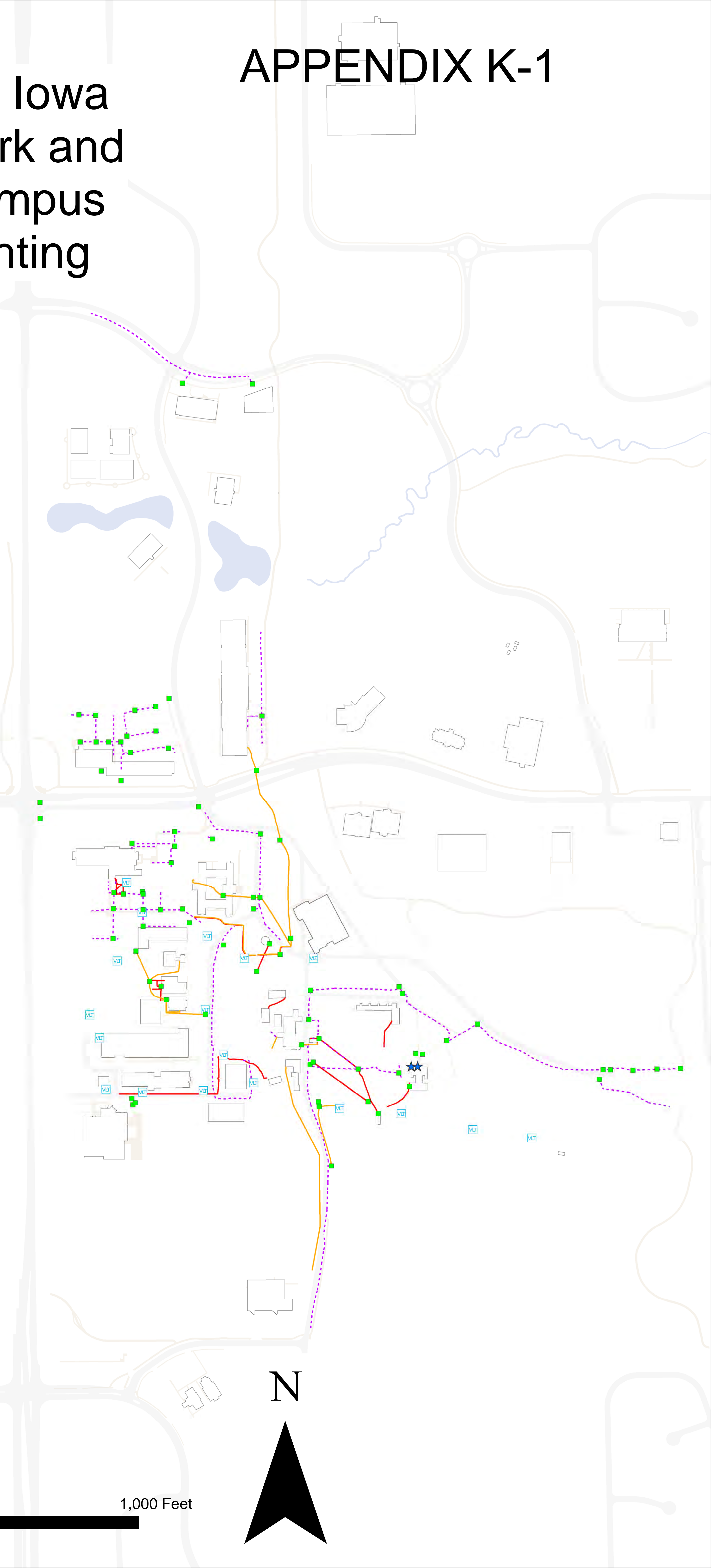
120-208 Volt

Cabinet Power

Buildings

Roads

Water Bodies



University of Iowa Main Campus Water

APPENDIX K-2

Legend

Type of Main

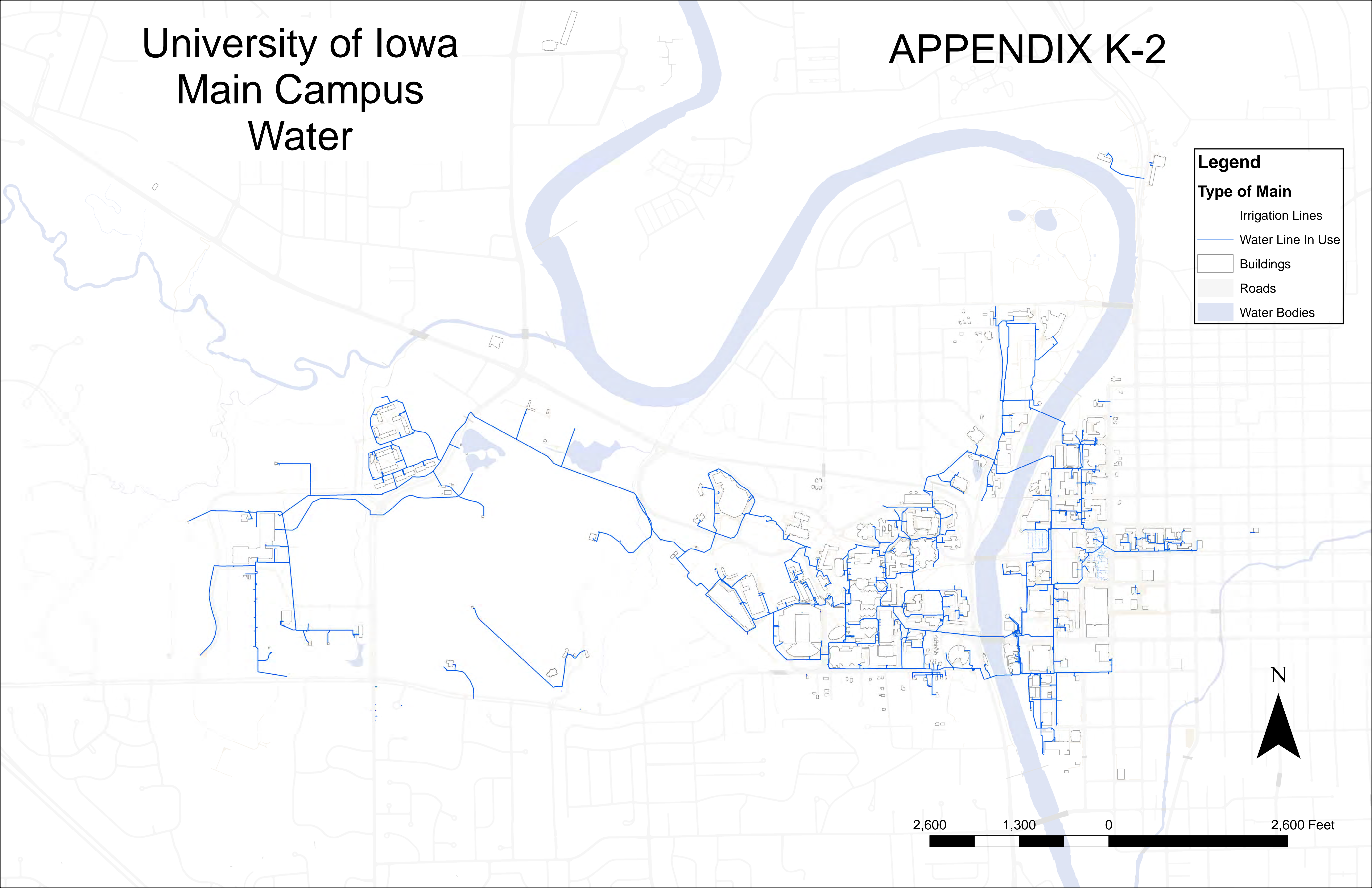
Irrigation Lines

Water Line In Use

Buildings

Roads

Water Bodies



University of Iowa Research Park and Oakdale Campus Water

Legend

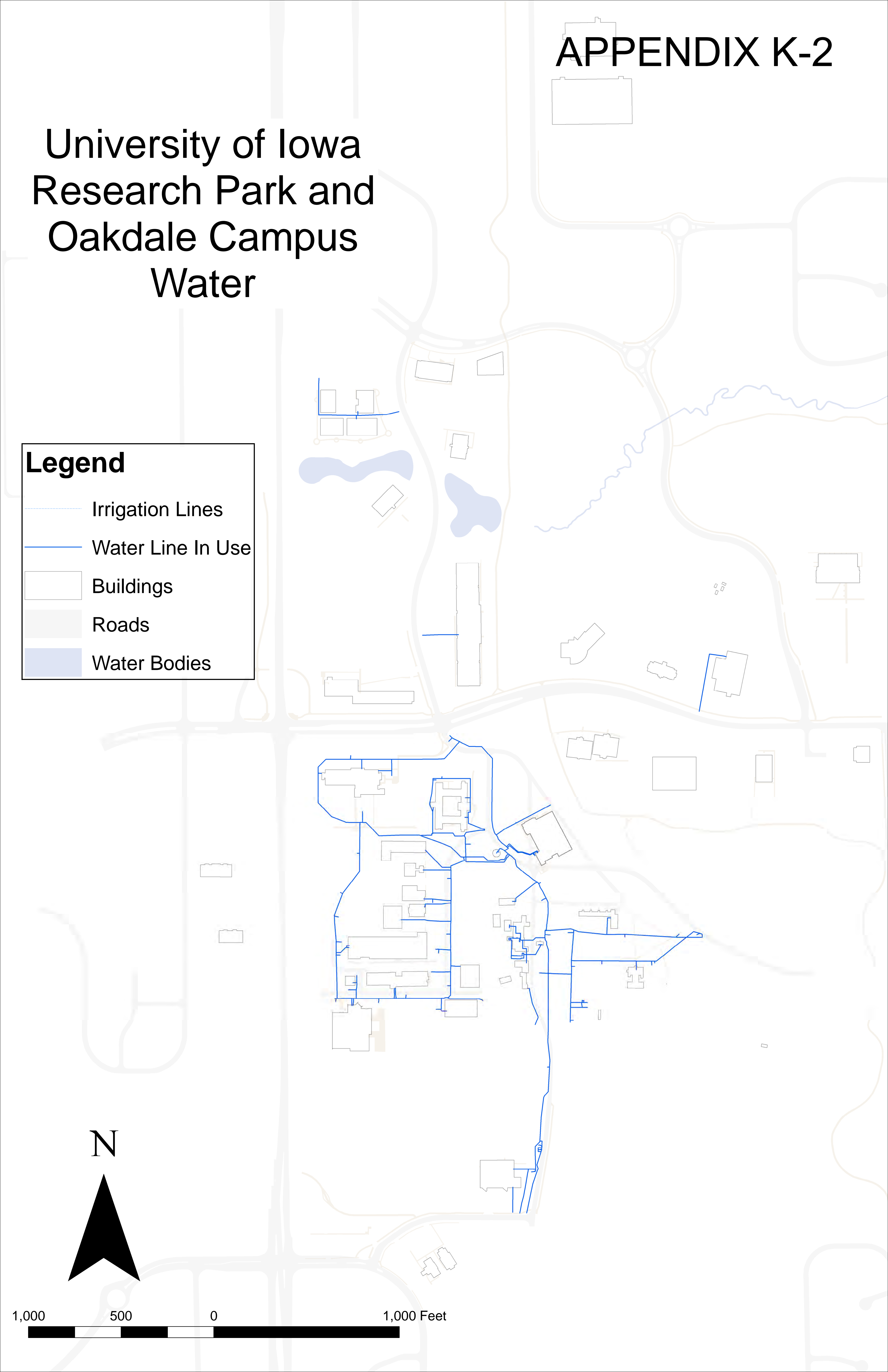
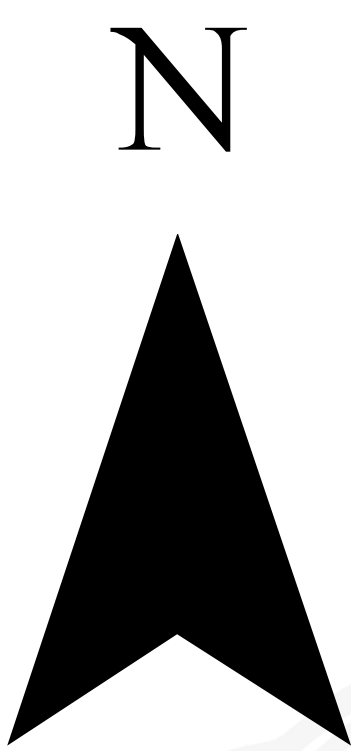
Irrigation Lines

Water Line In Use

Buildings

Roads

Water Bodies



University of Iowa Main Campus Chilled Water

APPENDIX K-3

Legend

Chilled Water Valves

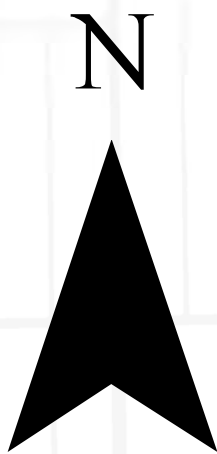
Chilled Water Supply

Chilled Water Return

Buildings

Roads

Water Bodies



University of Iowa Research Park and Oakdale Campus Chilled Water

Legend

Chilled Water Supply

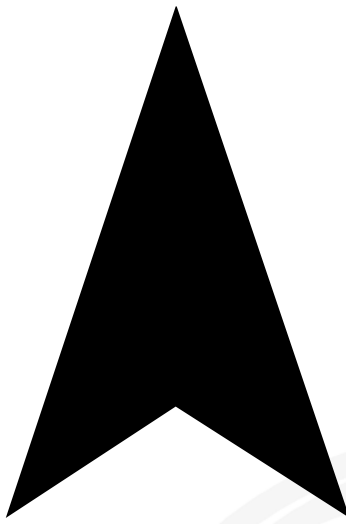
Chilled Water Return

Buildings

Roads

Water Bodies

N



1,000 500 0 1,000 Feet

University of Iowa Main Campus Steam

APPENDIX K-4

Legend

Steam HPS

Steam MPS

Steam LPS

Steam Condensate

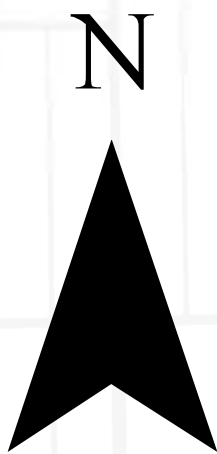
Return

Supply

Buildings

Roads

Water Bodies



University of Iowa Research Park and Oakdale Campus Steam

Legend

Steam HPS

Steam MPS

Steam LPS

Steam Condensate

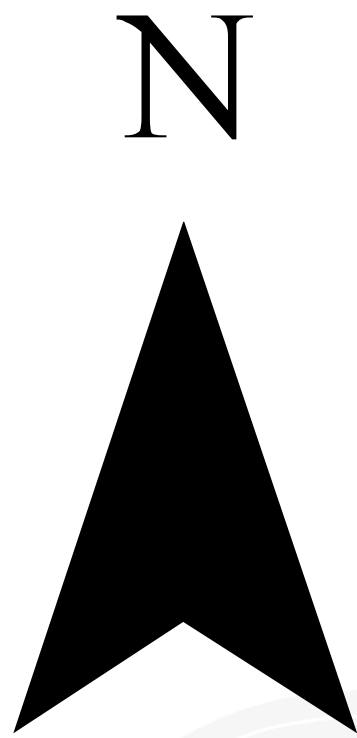
Return

Supply

Buildings

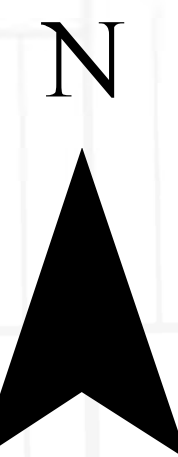
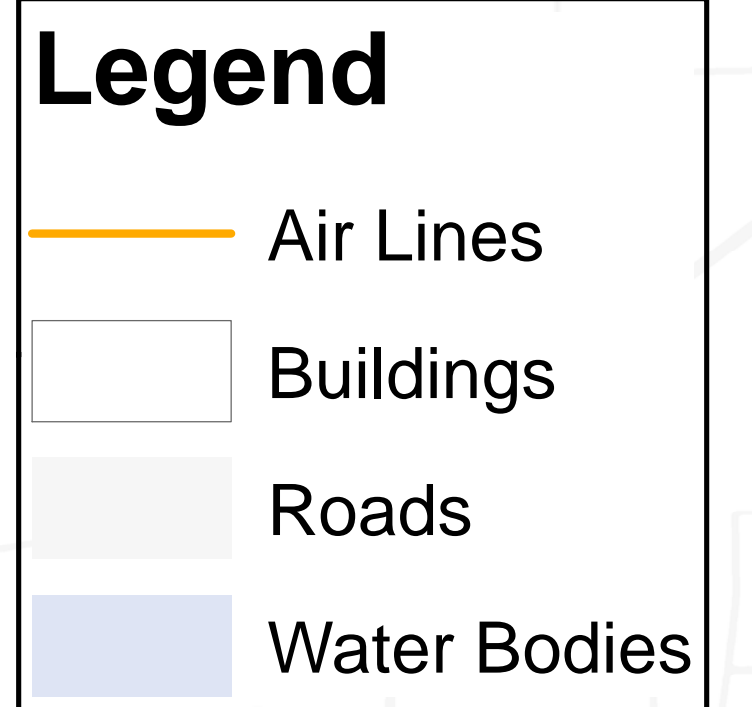
Roads

Water Bodies



University of Iowa Main Campus Compressed Air

APPENDIX K-5



APPENDIX K-5

University of Iowa Research Park and Oakdale Campus Compressed Air

Legend

Air Lines

Buildings

Roads

Water Bodies

N

1,000

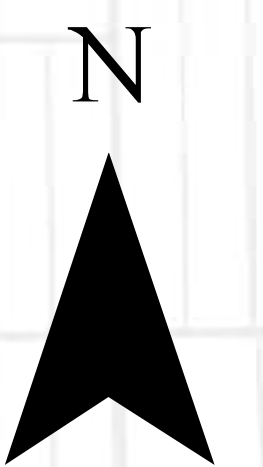
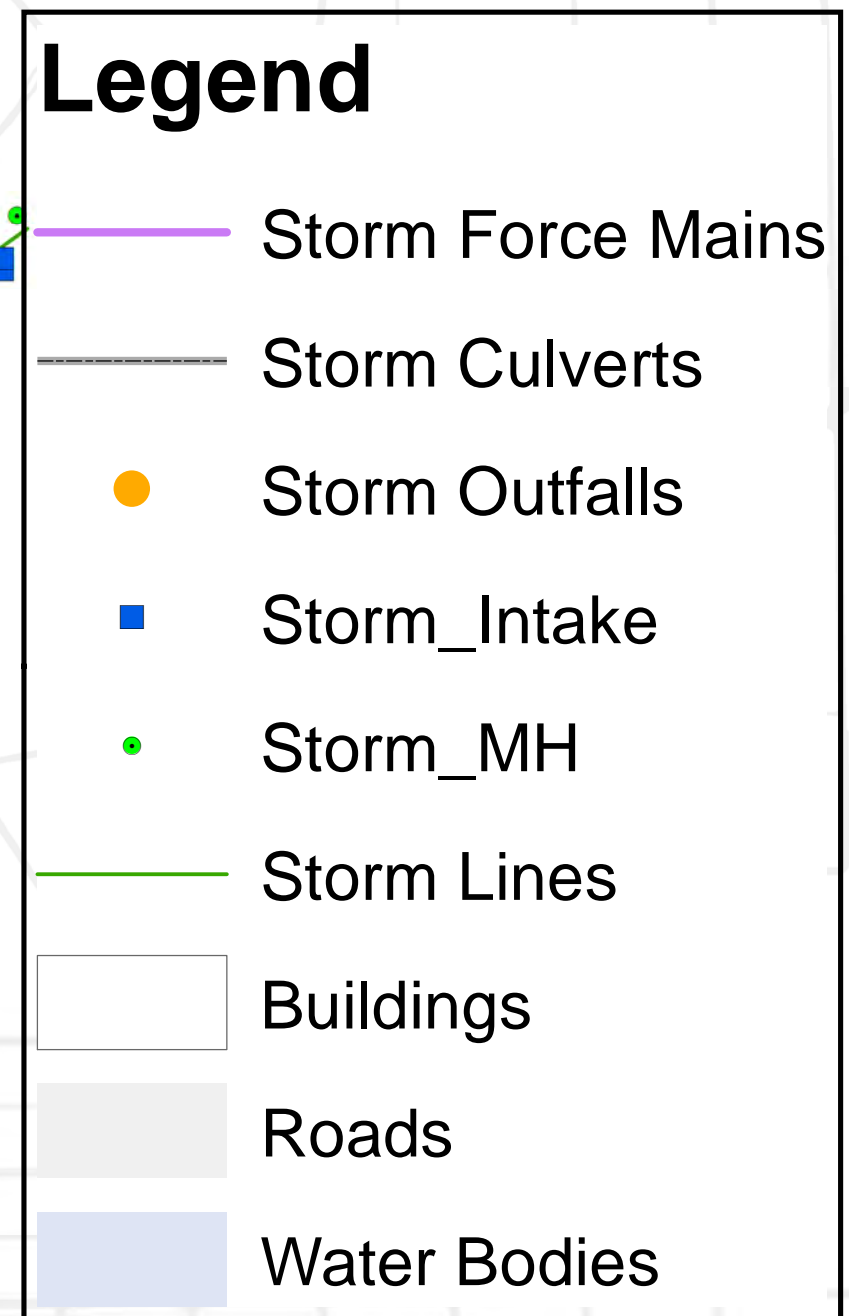
500

0

1,000 Feet

University of Iowa Main Campus Storm

APPENDIX K-6

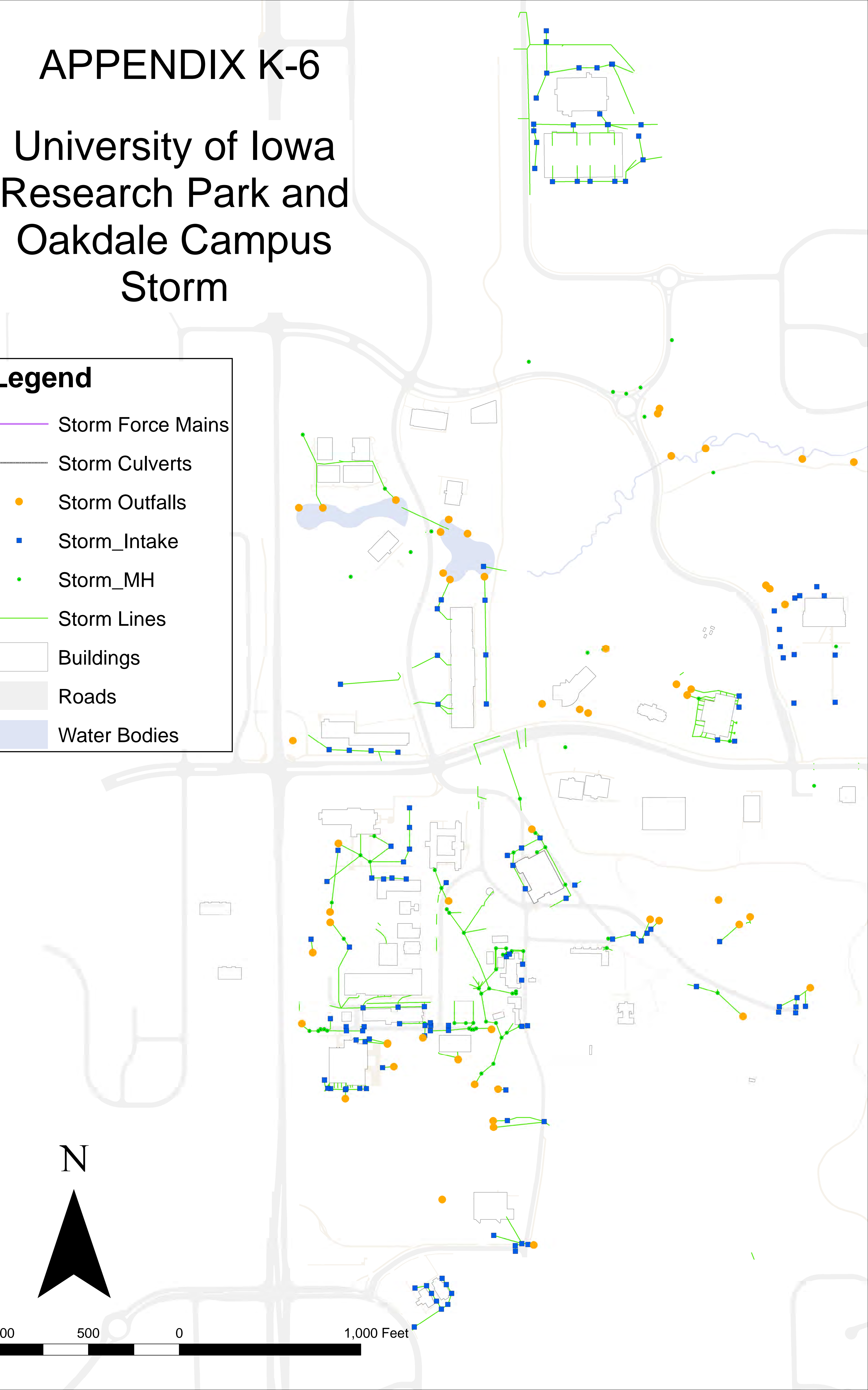
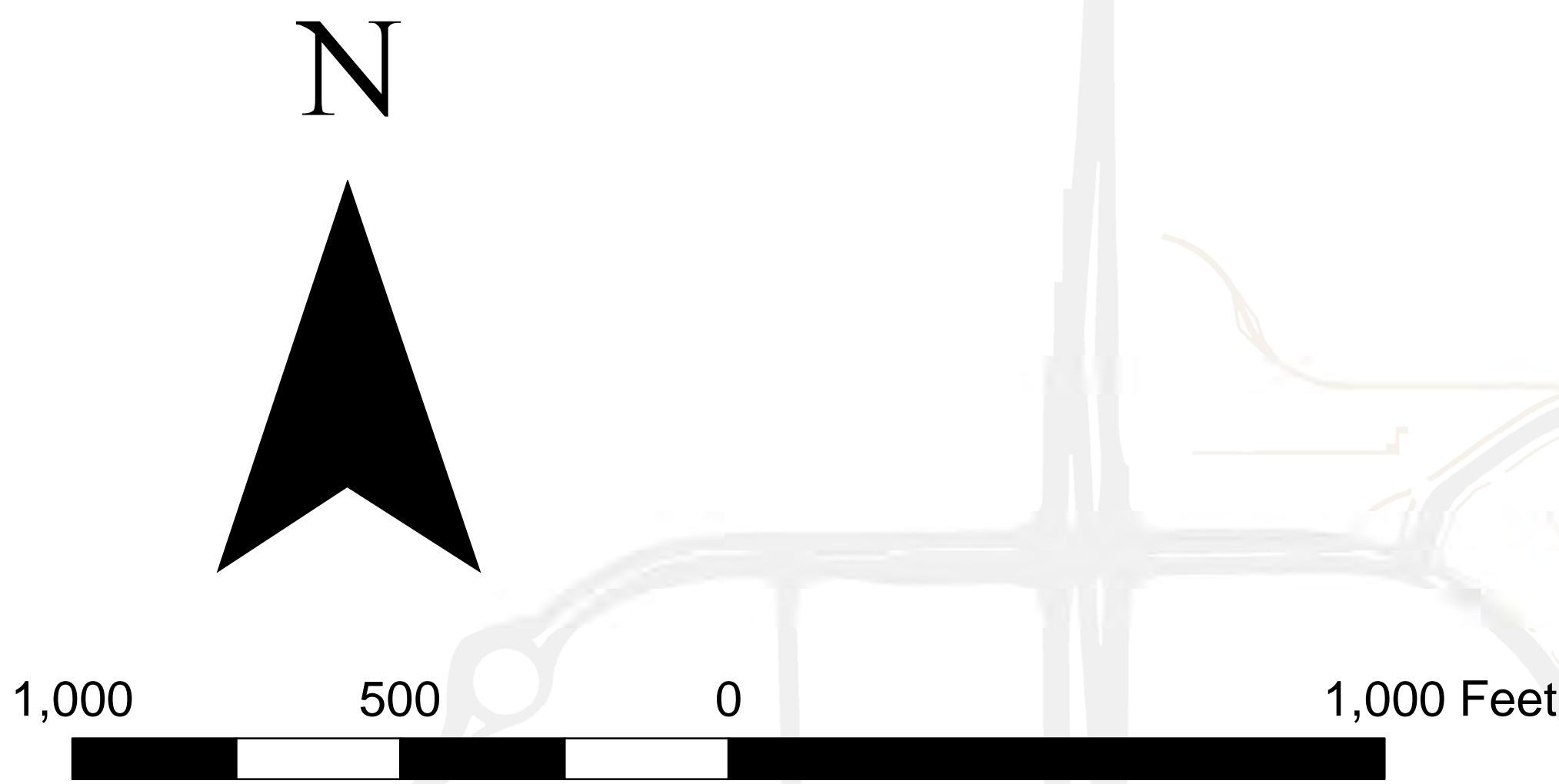


APPENDIX K-6

University of Iowa Research Park and Oakdale Campus Storm

Legend

- Storm Force Mains
- Storm Culverts
- Storm Outfalls
- Storm_Intake
- Storm_MH
- Storm Lines
- Buildings
- Roads
- Water Bodies



University of Iowa Main Campus Sanitary

APPENDIX K-7

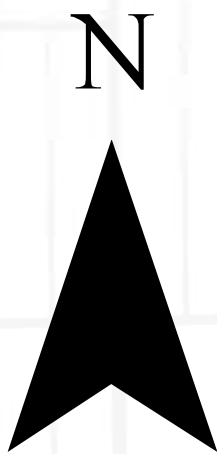
Legend

Sanitary Lines

Buildings

Roads

Water Bodies



APPENDIX K-7

University of Iowa Research Park and Oakdale Campus Sanitary

Legend

Sanitary Lines

Buildings

Water Bodies

Roads

This map illustrates the sanitary infrastructure of the University of Iowa Research Park and Oakdale Campus. It features a network of purple sanitary lines with various pipe sizes (e.g., 8", 10", 12", 15", 18") connecting numerous buildings (white outlines) and water bodies (blue areas). Roads are shown in light gray. The map includes a legend, a north arrow, and a scale bar (0 to 1,000 feet).

APPENDIX L

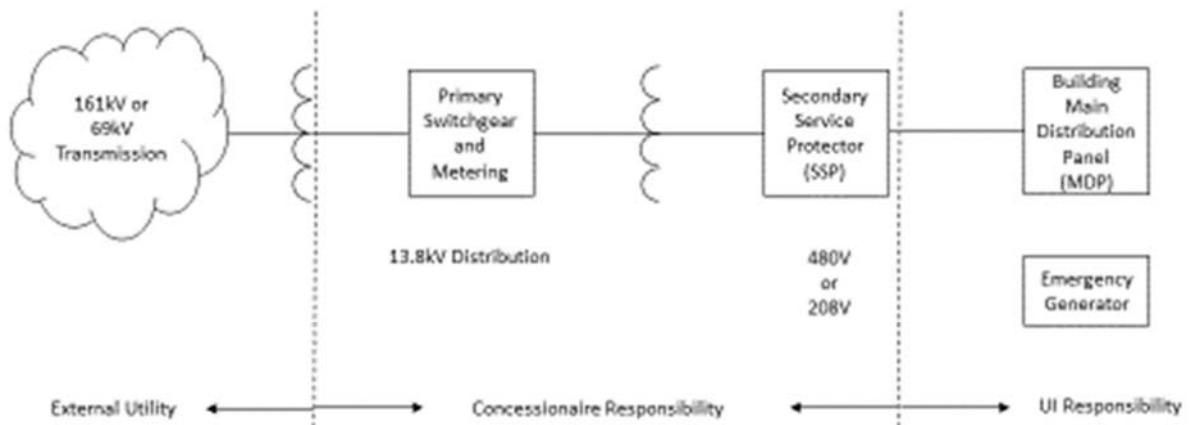
Lines of Demarcation

Please see attached.

APPENDIX L-1

Electric Line of Demarcation

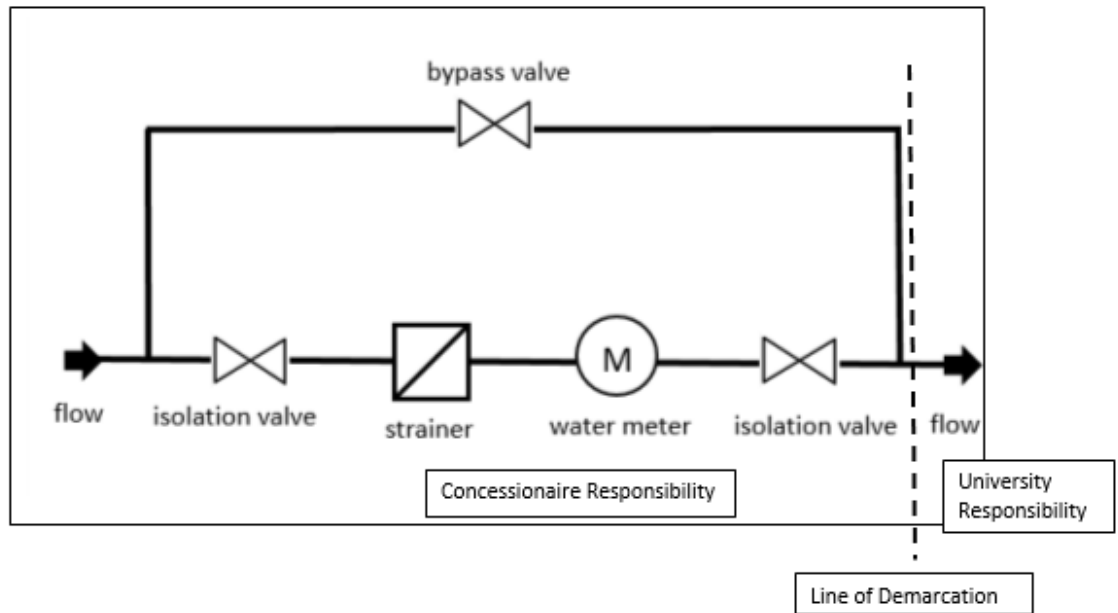
UI Electrical Distribution Demarcation, Typical



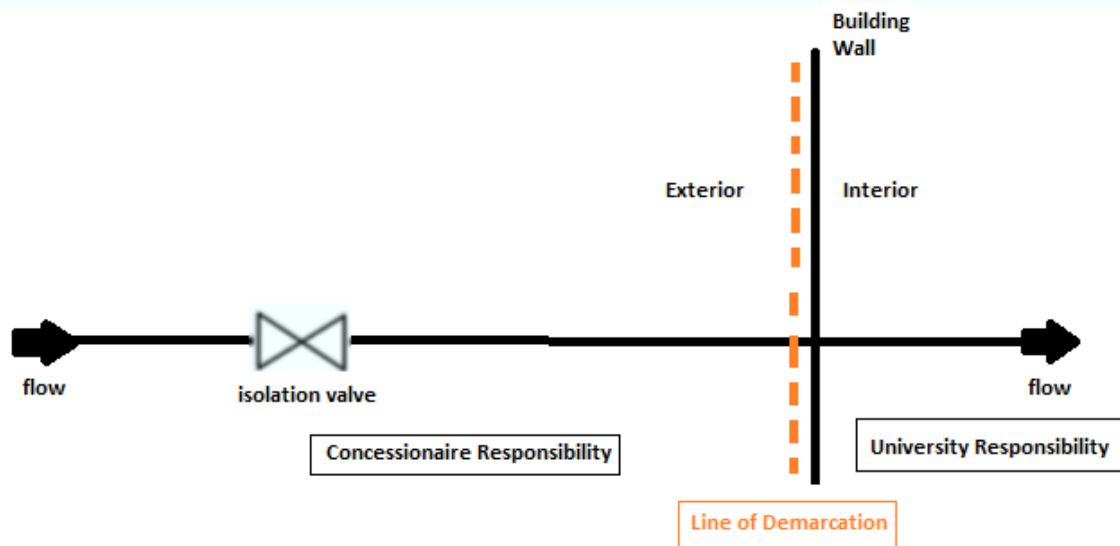
APPENDIX L-2

Domestic Water Line of Demarcation

Domestic Water Line of Demarcation Graphic



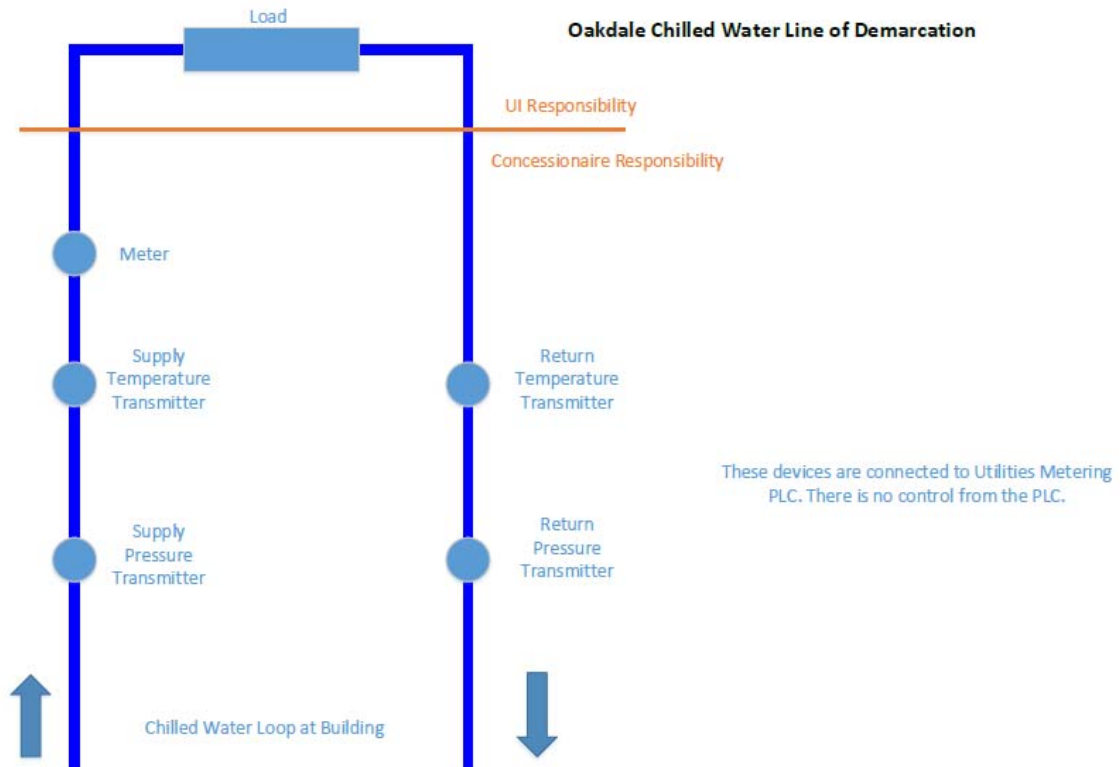
Fire Water Line of Demarcation Graphic



APPENDIX L-3

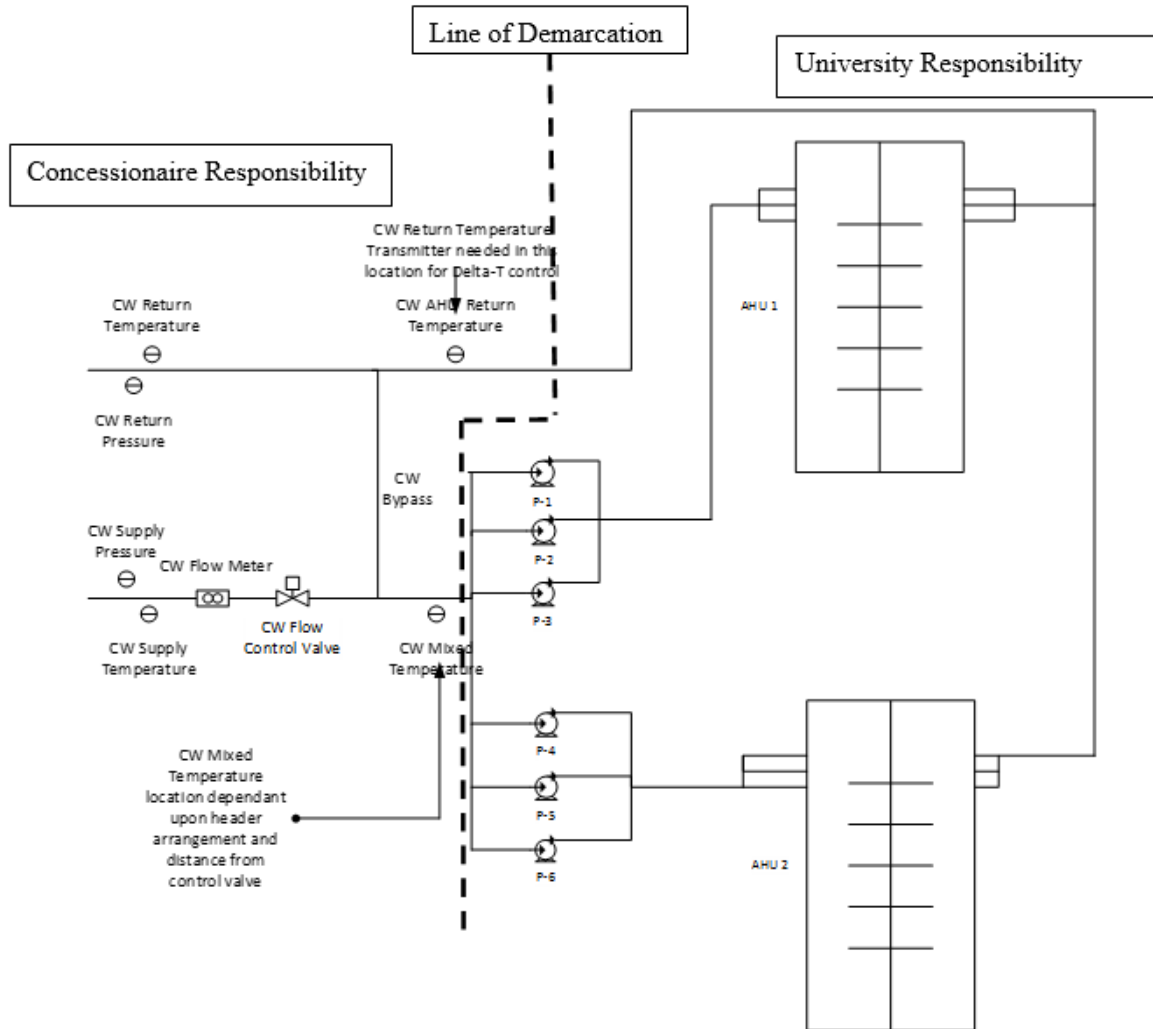
Chilled Water Line of Demarcation

Oakdale Campus



Main Campus Line of Demarcation

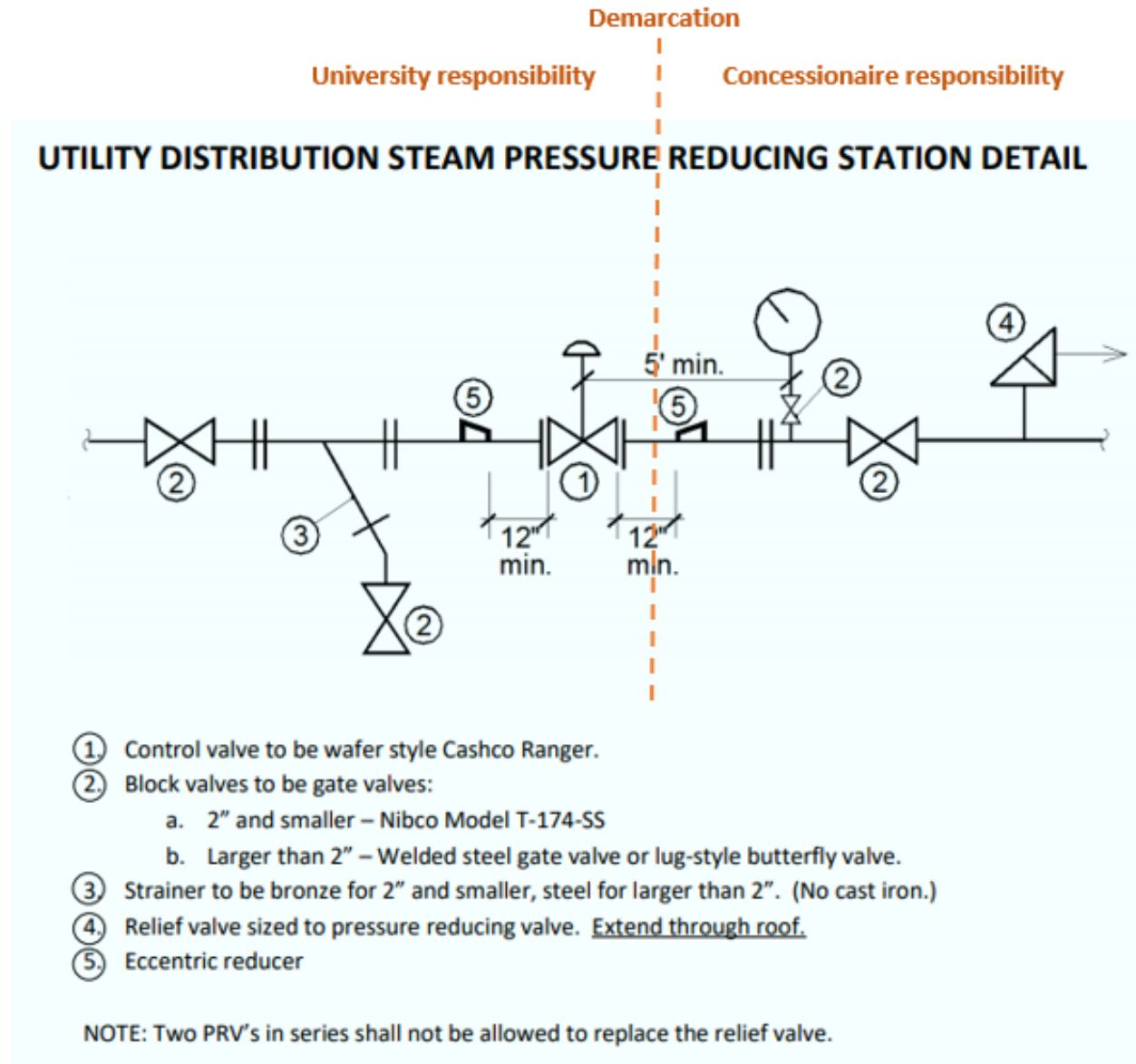
Main Campus Chilled Water Line of Demarcation Graphic



APPENDIX L-4

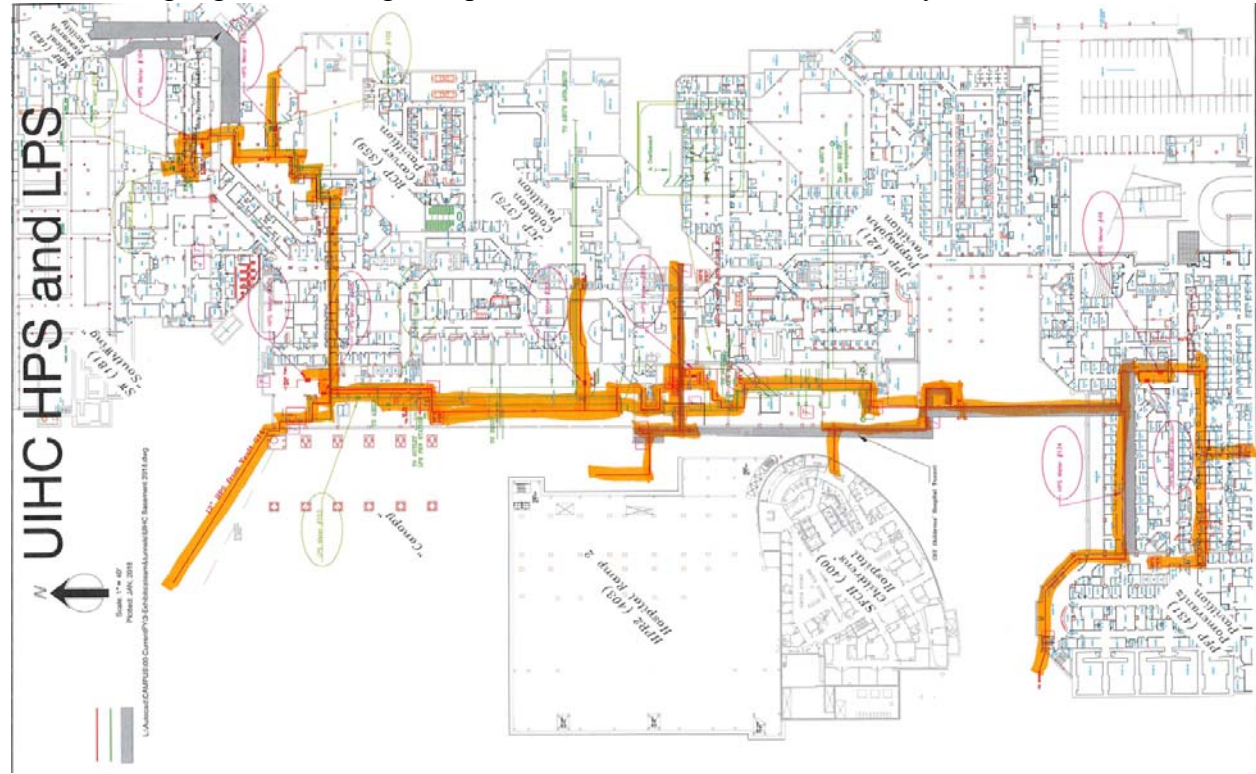
Steam and Condensate Line of Demarcation

University Campus (other than UIHC Medical Center)



UIHC Medical Campus Steam and Condensate Line of Demarcation

The lines highlighted in orange are part of the Steam and Condensate System.

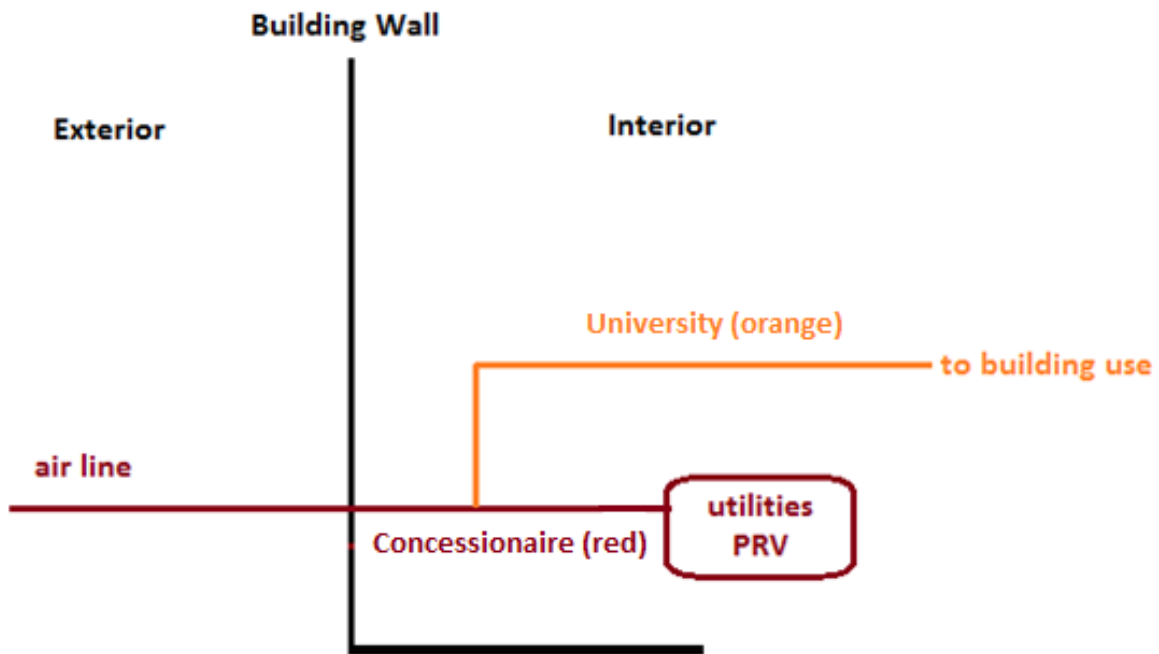


Insert Condensate drawing

APPENDIX L-5

Compressed Air Line of Demarcation

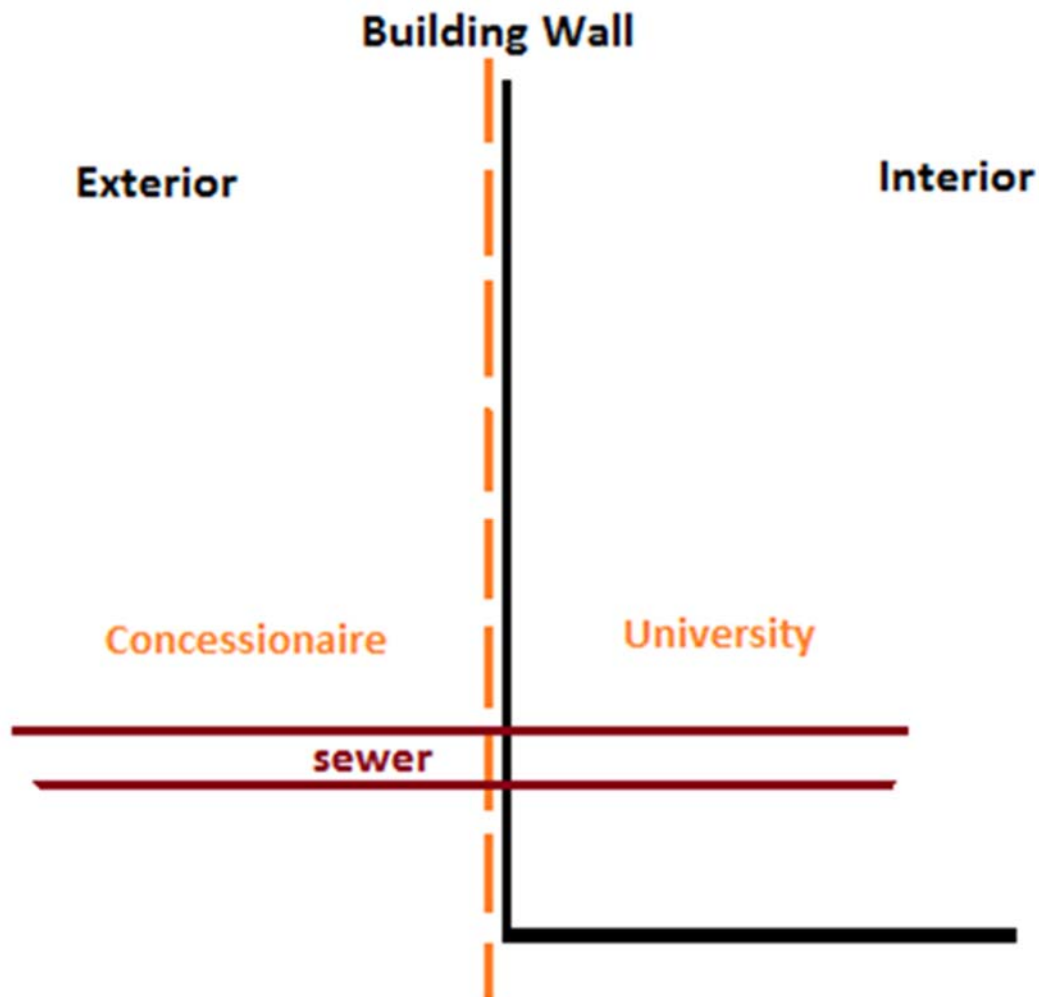
Compressed Air Demarcation



APPENDIX L-6

Storm Water Line of Demarcation

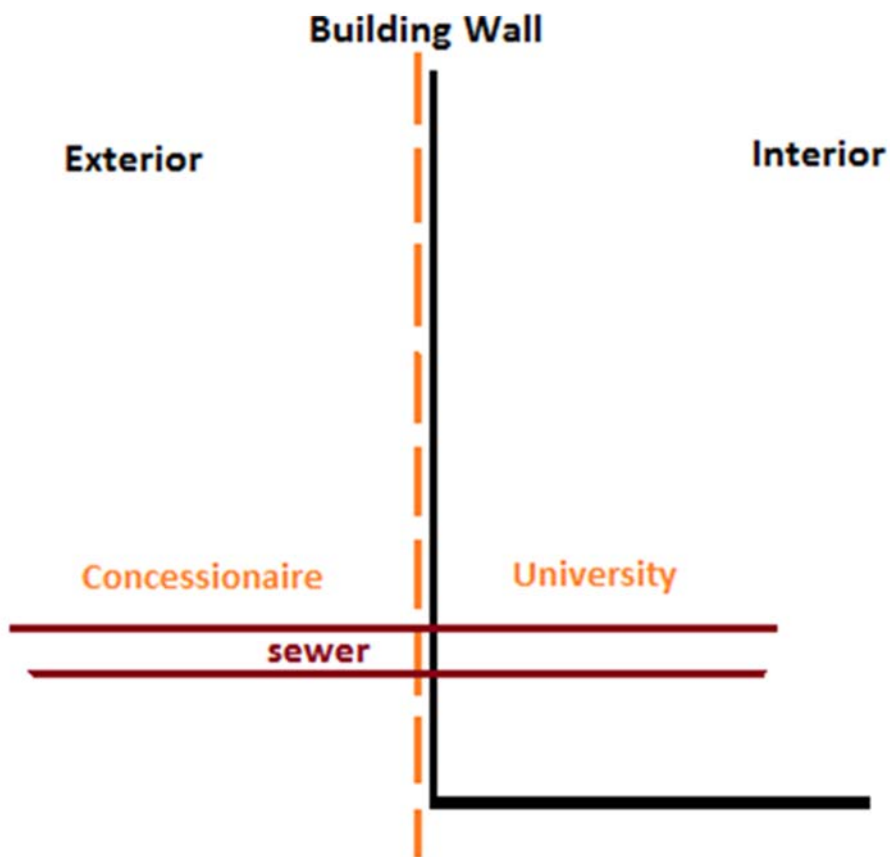
Storm Sewer Demarcation



APPENDIX L-7

Sanitary Sewer Line of Demarcation

Sanitary Sewer Demarcation



APPENDIX M

Reserved

APPENDIX N

Reserved

APPENDIX O

Monitoring Points

Appendix O defines monitoring points for the Utility System as described in the Performance Standards. If a monitoring point is not available due to a power outage, other event, or does not exist then a reasonable substitution or estimate based from other monitoring points in the system shall be used.

Performance Standard, Part III - Chilled Water System		
Requirement	Monitoring Point Description	PI Tag
1)Temperature Requirements		
a(i): Main Campus Chilled Water Plant Discharge Temp = 42 Deg F. North plant exception of 42 to 46 Deg F until absorption chillers are replaced.	North Chiller Plant Supply Temp Variance	NCP_00_TT_000
	Northwest Chiller Plant Supply Temp Variance	NWCP_00_TT_001_ENG
	West Chiller Plant North Loop Supply Temp Variance	WCP_00_TT_009
	West Chiller Plant East Loop Supply Temp Variance	WCP_00_TT_002
	West Chiller Plant South Loop Supply Temp Variance	WCP_00_TT_004
	West Chiller Plant West Loop Supply Temp Variance	WCP_00_TT_007
a(ii): Oakdale Chilled Water (5/1 to 9/30 = 42 to 46 Deg F; 10/1 to 4/30 = 42 to 52 Deg F)	HLI Chilled Water Summer Supply Temp Variance	HLI_CWS-TT-001
	Oakdale Chiller Plant Summer Supply Temp Variance	OAK_TIT159
b: Main Campus Building MixTemp between 43 and 48 Deg F per agreement with applicable University Customer	Building MixTemp Out of Range	Building Mix Temp (E.G. CWP_C32MixTemp)
2)Pressure Requirements		
a: Maintain system pressure to allow chilled water flow control	Alert any interface valve >90% for 3 hours or more unless building operates on CW distribution pressure.	Building Station PV (E.G. CWP_C32Station_PV)
b(i): West Chiller Plant 1 Supply Pressure >=60 psi	West Chiller Plant 1 Low Supply Pressure	WCP_00_PT_007
b(i):West Chiller Plant 1 differential Pressure = 14 to 50 psid. May reach 55 psid for up to two hours.	West Chiller Plant 1 Exceeds Max Pressure	WCP_00_PDT_000D WCP_00_PDT_000A
b(ii): Oakdale Chilled Water Differential Pressure >= 20 psi	HLI and Oakdale CWP Chilled Water Low Differential Pressure	HLI_CWS-PT-003 OAK_PDIT159

b(ii): Oakdale Chilled Water Supply Pressure between 60 and 64 psi	HLI and Oakdale CWP Chilled Water Low Supply Pressure	HLI_CWS-PT-001 OAK_PIT159
7) Unplanned Outages		
a)i: Main Campus Building Chilled Water Outage	Building Chilled Water Outage - Building Supply Temperature or Pressure	CW Building Supply Temperature and Supply Pressure - Building Monitoring Points - Table 1. (E.G. CWP_C32SupPress, CWP_C32SupTemp)
a)ii: Oakdale Building Chilled Water Outage	Building Chilled Water Outage - Building Supply Temperature or Pressure	CW Building Supply Temperature and Supply Pressure - Building Monitoring Points - Table 1. (E.G. CWP_C32SupPress, CWP_C32SupTemp)
a)iii Chilled Water Supply Interruption to a Building	Building Chilled Water Outage - Building Supply Temperature or Pressure	CW Building Supply Temperature and Supply Pressure - Building Monitoring Points - Table 1. (E.G. CWP_C32SupPress, CWP_C32SupTemp)
d) Notification Requirement Loop Temp >50 for 10 minutes		NCP_00_TT_000 NWCP_00_TT_001_ENG WCP_00_TT_009 WCP_00_TT_002 WCP_00_TT_004 WCP_00_TT_007

Performance Standard, Part IV - Steam and Condensate System		
Requirement	Monitoring Point Description	PI Tag
1) Temperature Requirements		
a)i Main Campus superheated steam at nominal 750 Deg F	Main Campus Superheated Steam Temp Variance	PP_TT0601 PP_FIC0751_PV PP_FIC0851_PVP P_Steam_Temp PP_MS-TT-6515 PP_BLR12_STSEL

a)ii Oakdale Campus saturated steam at 350 Deg F	Oakdale Campus Saturated Steam Temp Variance	MC_180Temperature MC_181Temperature MC_182Temperature MC_184Temperature MC_186Temperature
b) No more than 40 Deg F super-heat steam at any building.	Building Excessive Superheat Steam Temp	Building Supply Temp - reference Building Monitoring Points - Table 2 (E.G. MC_021Temperature)
c)i Oakdale Hot Water supply temp between 5/1 and 9/30 >= 204 Deg F	Oakdale Summer Hot Water Supply Temp Low	OAK_TT023
c)ii Oakdale Hot Water supply temp between 10/1 and 4/30 >=210 Deg F	Oakdale Winter Hot Water Supply Temp Low	OAK_TT023
2) Pressure Requirements		
a)i Main PP Steam Header at 500 psig	Main PP Steam Pressure Variance	PP_AVG-HDR-PRESS
a)ii Oakdale PP Steam Header at 120 psig	Oakdale PP Steam Pressure Variance	OAK_Main_Steam_Header_Press
b) Main Campus 155# steam system pressure <145 psig for 10 continuous minutes	Main Campus 155# Steam Pressure Low	PP_PIC0401A_PV
b) Main Campus 20# steam system pressure <15 psig for 10 continuous minutes.	Main Campus 20# Steam Pressure Low	PP_PT-CAMPUS
c) Oakdale Hot Water supply pressure at 50 psi	Oakdale Hot Water Supply Pressure Variance	OAK_PT025
d) Main and Oakdale Condensate System Tracking	TBD	TBD
7) Unplanned Outages		
Unplanned Outage whenever building supply pressure transmitter <5 psi for 10 consecutive minutes	Building Steam Outage	Building Supply Pressure - reference Building Monitoring Points - Table 2 (E.G. MC_021Pressure)

Performance Standard, Part V - Electric System		
Requirement	Monitoring Point Description	PI Tag
1) Power Requirements		
a)i: Main Campus Sub U, L Voltage	Main Campus Substation Voltage	Set by MEC

a)i: Oakdale Sub O Voltage	Oakdale Substation Voltage	SUBO-69K.3351.EA-351L.VOLTS
a)iii: Main Campus Sub U, L Power Factor>0.95	Main Campus Substation Power Factor	SUB_U_TX6_pf SUB_U_tx1_pf SUB_U_tx2_pf SUB_L_tx3_pf SUB_L_tx4_pf
a)iii: Oakdale Sub O Power Factor>0.95	Oakdale Substation Power Factor	SUBO-69K.EA-734.PF
6) Unplanned Outages		
a)i Building loss of power	Building power outage	Building Power Supply - reference Building Monitoring Points - Table 3

Performance Standard, Part VI - Domestic Water System		
Requirement	Monitoring Point Description	PI Tag
2) Pressure Requirements		
a) Water Pressure at Water Towers > 60 psi	Main Campus Low Water Tower Pressure	TBD
a) Water Pressure at Oakdale Water Tower > 60 psi	Oakdale Campus Low Water Tower Pressure	WP_PLC.OAK.SystemPressure

Performance Standard, Part VII - Compressed Air System		
Requirement	Monitoring Point Description	PI Tag
1) Temperature Requirements		
a) Compressed Air Dewpoint < -25 Deg F	Compressed Air High Dewpoint	PP_N_Dewpoint PP_S_Dewpoint
2) Pressure Requirements		
b) Compressed Air Pressure > 80 psi	Main Campus Compressed Air Low Pressure	PP_SERV_AIR_PRESS
b) Compressed Air Pressure > 80 psi	Oakdale Campus Compressed Air Low Pressure	OAK_PIT041

Table 1: Chilled Water Building Monitoring Points

Chilled Water Meter	Chilled Water Supply Pressure Pi Tag	Chilled Water Supply Temperature Pi Tag
C01	\\piserver.facilities.uiowa.edu\CWP_C01Su pPress	\\piserver.facilities.uiowa.edu\CWP_C01Su pTemp
C02	\\piserver.facilities.uiowa.edu\CWP_C02Su pPress	\\piserver.facilities.uiowa.edu\CWP_C02Su pTemp
C03	\\piserver.facilities.uiowa.edu\CWP_C03Su pPress	\\piserver.facilities.uiowa.edu\CWP_C03Su pTemp
C04	\\piserver.facilities.uiowa.edu\CWP_C04Su pPress	\\piserver.facilities.uiowa.edu\CWP_C04Su pTemp
C05	\\piserver.facilities.uiowa.edu\CWP_C05Su pPress	\\piserver.facilities.uiowa.edu\CWP_C05Su pTemp
C06	\\piserver.facilities.uiowa.edu\CWP_C06Su pPress	\\piserver.facilities.uiowa.edu\CWP_C06Su pTemp
C07	\\piserver.facilities.uiowa.edu\CWP_C07Su pPress	\\piserver.facilities.uiowa.edu\CWP_C07Su pTemp
C08	\\piserver.facilities.uiowa.edu\CWP_C08Su pPress	\\piserver.facilities.uiowa.edu\CWP_C08Su pTemp
C09	\\piserver.facilities.uiowa.edu\CWP_C09Su pPress	\\piserver.facilities.uiowa.edu\CWP_C09Su pTemp
C090	\\piserver.facilities.uiowa.edu\CWP_C090S upPress	\\piserver.facilities.uiowa.edu\CWP_C090S upTemp
C091	\\piserver.facilities.uiowa.edu\CWP_C091S upPress	\\piserver.facilities.uiowa.edu\CWP_C091S upTemp
C092	\\piserver.facilities.uiowa.edu\CWP_C092S upPress	\\piserver.facilities.uiowa.edu\CWP_C092S upTemp
C093	\\piserver.facilities.uiowa.edu\CWP_C093S upPress	\\piserver.facilities.uiowa.edu\CWP_C093S upTemp
C095	\\piserver.facilities.uiowa.edu\CWP_C095S upPress	\\piserver.facilities.uiowa.edu\CWP_C095S upTemp
C097	\\piserver.facilities.uiowa.edu\CWP_C097S upPress	\\piserver.facilities.uiowa.edu\CWP_C097S upTemp
C099	\\piserver.facilities.uiowa.edu\CWP_C099S upPress	\\piserver.facilities.uiowa.edu\CWP_C099S upTemp
C10	\\piserver.facilities.uiowa.edu\CWP_C10Su pPress	\\piserver.facilities.uiowa.edu\CWP_C10Su pTemp

C100	\\piserver.facilities.uiowa.edu\CWP_C100S upPress	\\piserver.facilities.uiowa.edu\CWP_C100S upTemp
C101	\\piserver.facilities.uiowa.edu\CWP_C101S upPress	\\piserver.facilities.uiowa.edu\CWP_C101S upTemp
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C103	\\piserver.facilities.uiowa.edu\CWP_C103S upPress	\\piserver.facilities.uiowa.edu\CWP_C103S upTemp
C104	\\piserver.facilities.uiowa.edu\CWP_C104S upPress	\\piserver.facilities.uiowa.edu\CWP_C104S upTemp
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C106	\\piserver.facilities.uiowa.edu\CWP_C106S upPress	\\piserver.facilities.uiowa.edu\CWP_C106S upTemp
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C108	\\piserver.facilities.uiowa.edu\CWP_C108S upPress	\\piserver.facilities.uiowa.edu\CWP_C108S upTemp
C109	\\piserver.facilities.uiowa.edu\CWP_C109S upPress	\\piserver.facilities.uiowa.edu\CWP_C109S upTemp
C11	\\piserver.facilities.uiowa.edu\CWP_C11Su pPress	\\piserver.facilities.uiowa.edu\CWP_C11Su pTemp
C110	\\piserver.facilities.uiowa.edu\CWP_C110S upPress	\\piserver.facilities.uiowa.edu\CWP_C110S upTemp
C111	\\piserver.facilities.uiowa.edu\CWP_C111S upPress	\\piserver.facilities.uiowa.edu\CWP_C111S upTemp
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C12	\\piserver.facilities.uiowa.edu\CWP_C12Su pPress	\\piserver.facilities.uiowa.edu\CWP_C12Su pTemp
C13	\\piserver.facilities.uiowa.edu\CWP_C13Su pPress	\\piserver.facilities.uiowa.edu\CWP_C13Su pTemp
C14	\\piserver.facilities.uiowa.edu\CWP_C14Su pPress	\\piserver.facilities.uiowa.edu\CWP_C14Su pTemp
C148	\\piserver.facilities.uiowa.edu\CWP_C148S upPress	\\piserver.facilities.uiowa.edu\CWP_C148S upTemp
C15	\\piserver.facilities.uiowa.edu\CWP_C15Su pPress	\\piserver.facilities.uiowa.edu\CWP_C15Su pTemp
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C152	\\piserver.facilities.uiowa.edu\CWP_C152S upPress	\\piserver.facilities.uiowa.edu\CWP_C152S upTemp
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C16	\\piserver.facilities.uiowa.edu\CWP_C16Su pPress	\\piserver.facilities.uiowa.edu\CWP_C16Su pTemp
C16.1	\\piserver.facilities.uiowa.edu\CWP_C16.1S upPress	\\piserver.facilities.uiowa.edu\CWP_C16.1S upTemp
C17	\\piserver.facilities.uiowa.edu\CWP_C17Su pPress	\\piserver.facilities.uiowa.edu\CWP_C17Su pTemp
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C79	\\piserver.facilities.uiowa.edu\CWP_C79Su pPress	\\piserver.facilities.uiowa.edu\CWP_C79Su pTemp
C80	\\piserver.facilities.uiowa.edu\CWP_C80Su pPress	\\piserver.facilities.uiowa.edu\CWP_C80Su pTemp
C81	\\piserver.facilities.uiowa.edu\CWP_C81Su pPress	\\piserver.facilities.uiowa.edu\CWP_C81Su pTemp
C82	\\piserver.facilities.uiowa.edu\CWP_C82Su pPress	\\piserver.facilities.uiowa.edu\CWP_C82Su pTemp

C83	\\piserver.facilities.uiowa.edu\CWP_C83Su pPress	\\piserver.facilities.uiowa.edu\CWP_C83Su pTemp
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C85	\\piserver.facilities.uiowa.edu\CWP_C85Su pPress	\\piserver.facilities.uiowa.edu\CWP_C85Su pTemp
C86	\\piserver.facilities.uiowa.edu\CWP_C86Su pPress	\\piserver.facilities.uiowa.edu\CWP_C86Su pTemp
C87	\\piserver.facilities.uiowa.edu\CWP_C87Su pPress	\\piserver.facilities.uiowa.edu\CWP_C87Su pTemp
C88	\\piserver.facilities.uiowa.edu\CWP_C88Su pPress	\\piserver.facilities.uiowa.edu\CWP_C88Su pTemp
C89	\\piserver.facilities.uiowa.edu\CWP_C89Su pPress	\\piserver.facilities.uiowa.edu\CWP_C89Su pTemp
C94	\\piserver.facilities.uiowa.edu\CWP_C94Su pPress	\\piserver.facilities.uiowa.edu\CWP_C94Su pTemp

Table 2: Steam Building Monitoring Points

Steam Meter Number	Steam Pressure Pi Tag
3	\\piserver.facilities.uiowa.edu\MC_003Pressure
4	\\piserver.facilities.uiowa.edu\MC_004Pressure
9	\\piserver.facilities.uiowa.edu\MC_009Pressure
11	\\piserver.facilities.uiowa.edu\MC_011Pressure
12	\\piserver.facilities.uiowa.edu\MC_012Pressure
13	\\piserver.facilities.uiowa.edu\MC_013Pressure
14	\\piserver.facilities.uiowa.edu\MC_014Pressure
16	\\piserver.facilities.uiowa.edu\MC_016Pressure
17	\\piserver.facilities.uiowa.edu\MC_017Pressure
18	\\piserver.facilities.uiowa.edu\MC_018Pressure
19	\\piserver.facilities.uiowa.edu\MC_019Pressure
20	\\piserver.facilities.uiowa.edu\MC_020Pressure
21	\\piserver.facilities.uiowa.edu\MC_021Pressure
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Table 3: Electrical Building Monitoring Points

Table 3: List of Campus Electric Meter points

Parent	Name
AB Ceramics (T-145)	EL_AB_P182.KV2.KWH
AB Art Photo Studio Art Building (Primary)	EL_AB_P184.KV2.KWH
ABW T043 KWH	EL_ABW_P389.KV2.KWH
AJB T036 KWH	EL_AJB_P002.KV2.KWH
B T071 KWH	EL_B_P004.KV2.KWH
B T072 KWH	EL_B_P005.KV2.KWH
B City Well Pump (Deduct from B_P004)	EL_B_S006.KV2.KWH
	EL_B_S007.KV2.KWH
	EL_B_S008.KV2.KWH
BB (Primary)	EL_BB_P009.KV2.KWH
BB I.C. Jazzfest (Deduct from BB_P009)	EL_BB_S010.KV2.KWH
BB I.C. Jazzfest (Deduct from BB_P009)	EL_BB_S011.KV2.KWH
Biology Bldg Feeders 1&2 Kilowatt Hours	EL_BB12.FEEDER.KWH
BBE TX 39 (Primary)	EL_BBE_P012.KV2.KWH
BCSB Institutional roads and lights (Deduct from BCSB_P001)	EL_BCSB_L187.KV2.KWH
BCSB Walk Lights (Deduct from BCSB_P001)	EL_BCSB_L188.KV2.KWH
BCSB (Deduct from AJB_P002)	EL_BCSB_P001.KV2.KWH
Blank Honors Ctr Kilowatt Hours	EL_BHC.MAIN-PQM.KWH
BHC Walk Lights (Deduct from BHC_P014)	EL_BHC_L015.KV2.KWH
BHC T067 KWH	EL_BHC_P014.KV2.KWH
BLB Campus Lights @ Law Building (Deduct from BLB_P192)	EL_BLB_L189.KV2.KWH
BLB Parking Lots Lights South (Deduct from BLB_P192)	EL_BLB_L190.KV2.KWH
BLB Parking Lot Lights North (Deduct from BLB_P192)	EL_BLB_L191.KV2.KWH
BLB T157 KWH	EL_BLB_P192.KV2.KWH
BLB T158 KWH	EL_BLB_P193.KV2.KWH

BRSF (Lighting)	EL_BRSF_L460.KV2.KWH
BRSF	EL_BRSF_S458.KV2.KWH
BRSF	EL_BRSF_S459.KV2.KWH
BSB Sidewalk Lights and Lot #38 (Deduct from BSB_P272)	EL_BSB_L271.KV2.KWH
BSB T030 KWH	EL_BSB_P272.KV2.KWH
BSB T032 KWH	EL_BSB_P273.KV2.KWH
BSB T046 KWH	EL_BSB_P274.KV2.KWH
BSB T047 KWH	EL_BSB_P275.KV2.KWH
BSL Campus Lighting (Deduct from BSL_S016)	EL_BSL_L017.KV2.KWH
SL T105 (Biology Annex Deduct from BB_P009) KWH	EL_BSL_S016.KV2.KWH
BT Lights West Boyd Tower Addition (Deduct from BT_P276)	EL_BT_L278.KV2.KWH
BT T054 KWH	EL_BT_P276.KV2.KWH
MEB T038 KWH	EL_BT_P277.KV2.KWH
BT T057 KWH	EL_BT_P279.KV2.KWH
C T210 KWH	EL_C_P018.KV2.KWH
C T211 KWH	EL_C_P019.KV2.KWH
CALH (Primary)	EL_CALH_P020.KV2.KWH
Campus Generation	EL_CAMPUS_GEN_FWD_KWH
Campus Generation	EL_CAMPUS_GEN_REV_KWH
Campus Purchased Electricity	EL_CAMPUS_PUR_FWD_KWH
Campus Purchased Electricity	EL_CAMPUS_PUR_REV_KWH
Campus TOTAL Electricity	EL_CAMPUS_TOTAL_FWD_KWH
Campus TOTAL Electricity	EL_CAMPUS_TOTAL_REV_KWH
CB Generator Energy (KWH)	EL_CB Generator KWH
CB Lot 8 (Deduct from CB_P025)	EL_CB_L021.KV2.KWH
CB T198 KWH	EL_CB_P025.KV2.KWH
CB T199 KWH	EL_CB_P026.KV2.KWH
CB U of I Phone (Deduct from CB_P025)	EL_CB_S022.KV2.KWH
CB U of I Phone (Deduct from CB_P025)	EL_CB_S023.KV2.KWH
CB U of I Phone (Deduct from CB_P025)	EL_CB_S024.KV2.KWH
CBRB Generator Energy (KWH)	EL_CBRB Generator KWH
Inactive CBRB Lighting (Deduct from CBRB_P280)	EL_CBRB_L282.KV2.KWH
CBRB T151 KWH	EL_CBRB_P280.KV2.KWH
CBRB T152 KWH	EL_CBRB_P281.KV2.KWH
CC Campus Lights (Deduct from CC_S028)	EL_CC_L033.KV2.KWH
CC Campus Lights (Deduct from SC_P030)	EL_CC_S028.KV2.KWH
CDD Hospital School Walk Lights (Deduct from CDD_P196)	EL_CDD_L194.KV2.KWH

CDD Hospital School Street & Inst Lights (Deduct from CDD_P196)	EL_CDD_L195.KV2.KWH
CDD Hospital School (Primary)	EL_CDD_P196.KV2.KWH
SFCH T248 KWH	EL_CH_P429.KV2.KWH
SFCH T249 KWH	EL_CH_P430.KV2.KWH
SFCH T250 KWH	EL_CH_P431.KV2.KWH
CHA Sidewalk Lights East of Arena (Deduct from CHA_P197)	EL_CHA_L198.KV2.KWH
CHA West Sidewalk Lighting (Deduct from CHA_P197)	EL_CHA_L199.KV2.KWH
CHA West Parking Lot Lights (Deduct from CHA_P197)	EL_CHA_L200.KV2.KWH
CHA T006 KWH	EL_CHA_P197.KV2.KWH
CRWC Walk Lights	EL_CPHB_L392.KV2.KWH
CRWC Street Lights	EL_CPHB_L393.KV2.KWH
CPHB T014 KWH	EL_CPHB_P391.KV2.KWH
CRWC	EL_CRWC_L382.KV2.KWH
CRWC T246 KWH	EL_CRWC_P379.KV2.KWH
CRWC T247 KWH	EL_CRWC_P380.KV2.KWH
CRWC T248 (De-watering System) KWH	EL_CRWC_P412.KV2.KWH
CWPO (Oakdale Central Chilled Water Plant) - KWH	EL_CWPO_S450.KV2.KWH
CWPO (Oakdale Central Chilled Water Plant) - KWH	EL_CWPO_S451.KV2.KWH
D T109 KWH	EL_D_P003.KV2.KWH
DSB Walk Lights (Deduct from DSB_P202)	EL_DSB_L203.KV2.KWH
DSB Parking Lot #33 & Street Lights & Booth (Deduct from DSB_P202)	EL_DSB_L204.KV2.KWH
DSB T052 (North) KWH	EL_DSB_P202.KV2.KWH
DSB T053 (South) KWH	EL_DSB_P205.KV2.KWH
DSB D81A Sub-meter	EL_DSB_U421.KV2.KWH
DSB LMDPA Sub-meter	EL_DSB_U422.KV2.KWH
DSB HB Sub-meter	EL_DSB_U423.KV2.KWH
DSB HMDPA Sub-meter	EL_DSB_U424.KV2.KWH
DSB BD1M Sub-meter	EL_DSB_U425.KV2.KWH
DSB PP-1A1 Sub-meter	EL_DSB_U426.KV2.KWH
DSB H1A Sub-meter	EL_DSB_U427.KV2.KWH
EMF - KWH	EL_EMF_S445.KV2.KWH
EMRB Outside Lighting (Deduct from EMRB_P287)	EL_EMRB_L284.KV2.KWH
EMRB T114 (Chiller Unit) KWH	EL_EMRB_P285.KV2.KWH
EMRB T115 KWH	EL_EMRB_P286.KV2.KWH
EMRB T116 KWH	EL_EMRB_P287.KV2.KWH

EMRB T117 KWH	EL_EMRB_P288.KV2.KWH
EMRB Chiller Unit (Deduct from EMRB_P285)	EL_EMRB_S283.KV2.KWH
EMRB/Steindler Utility Tunnel Electric	EL_EMRB_S411.KV2.KWH
EPB Campus Lights (Deduct from EPB_P037)	EL_EPB_L036.KV2.KWH
EPB T128 KWH	EL_EPB_P037.KV2.KWH
EPF Generator Energy (KWH)	EL_EPF Generator KWH
UIHC Generator Plant KWH FWD	EL_EPGF_S480.KWH
RCP ETC T126 KWH	EL_ETC_P323.KV2.KWH
RCP ETC T178 KWH	EL_ETC_P324.KV2.KWH
RCP ETC T179 KWH	EL_ETC_P325.KV2.KWH
RCP ETC T180 KWH	EL_ETC_P326.KV2.KWH
FH Parking Ramp Lights (Deduct from FH_P291)	EL_FH_L290.KV2.KWH
FH Campus Light (Deduct from FH_P291)	EL_FH_L292.KV2.KWH
FH Street Lights (Deduct from FH_P289)	EL_FH_L295.KV2.KWH
FH T007 KWH	EL_FH_P289.KV2.KWH
Inactive FH Ramp Addition (Primary)	EL_FH_P291.KV2.KWH
FH T118 KWH	EL_FH_P293.KV2.KWH
FH T119 KWH	EL_FH_P294.KV2.KWH
GH Electric Shop #2 (Primary Rated Watthour Meter)	EL_GH_P296.KV2.KWH
GH Electric Shop #1 (Primary Rated Watthour Meter)	EL_GH_P297.KV2.KWH
GH T183 KWH	EL_GH_P298.KV2.KWH
GH T184 (Maint Shop 2) KWH	EL_GH_P299.KV2.KWH
GH T185 (480 Volt X-ray) KWH	EL_GH_P300.KV2.KWH
GH T186 (Tower Section and SE Addition) KWH	EL_GH_P301.KV2.KWH
GH T124 (Radiology II) KWH	EL_GH_P302.KV2.KWH
GH T125 (Radiology I) KWH	EL_GH_P303.KV2.KWH
GH Hospital Parking Booth (Deduct from PHAR_P357)	EL_GH_S356.KV2.KWH
GH DAS Athletics KWH	EL_GH_S483.KV2.KWH
GH Verizon KWH	EL_GH_S484.KV2.KWH
GH US Cellular KWH	EL_GH_S485.KV2.KWH
GH Iowa Wireless KWH	EL_GH_S486.KV2.KWH
GH ATT KWH	EL_GH_S487.KV2.KWH
GH DAS UIHC KWH	EL_GH_S489.KV2.KWH
GH Sprint KWH	EL_GH_S490.KV2.KWH
GILH Walk Lights (Deduct from GILH_P040)	EL_GILH_L038.KV2.KWH
GILH T049 KWH	EL_GILH_P040.KV2.KWH

H Hillcrest Lot #13 and gate house (Deduct from H_P305)	EL_H_L304.KV2.KWH
H T012 KWH	EL_H_P305.KV2.KWH
H T013 KWH	EL_H_P306.KV2.KWH
HA T159 KWH	EL_HA_P463.KV2.KWH
HA T160 KWH	EL_HA_P464.KV2.KWH
HA1 - Oakdale Hydraulic Labs Bldg #1 KWH	EL_HA1_S448.KV2.KWH
HA2 - Oakdale Hydraulic Labs Bldg #2 KWH	EL_HA2_S442.KV2.KWH
HH & IMU Parking Ramp (Primary)	EL_HH_P041.KV2.KWH
HH Union Ramp (Deduct from HH_P041)	EL_HH_S042.KV2.KWH
HLHS Campus Lights (Deduct from HLHS_P308)	EL_HLHS_L307.KV2.KWH
HLHS T163 KWH	EL_HLHS_P308.KV2.KWH
HLI- KWH	EL_HLI_S456.KV2.KWH
HLI- KWH	EL_HLI_S457.KV2.KWH
HLI Chiller 1 (KWH)	EL_HLI_S469.KV2.KWH
HLI Chiller 2 (KWH)	EL_HLI_S470.KV2.KWH
HLI PNL NHMPC (KWH)	EL_HLI_S471.KV2.KWH
HLI PNL NHMPD (KWH)	EL_HLI_S472.KV2.KWH
HLI Chiller 3 (KWH)	EL_HLI_S473.KV2.KWH
HOPE T032 (Deduct from RMD_P242) KWH	EL_Hope_S243.KV2.KWH
HPR1 Campus Lights (Deduct from HPR1_P310)	EL_HPR1_L309.KV2.KWH
HPR1 Hospital Ramp I (Primary)	EL_HPR1_P310.KV2.KWH
HPR1 Hospital Ramp 1 Storage (Deduct from HPR1_P310)	EL_HPR1_S311.KV2.KWH
Inactive HPR2 Hospital ramp 2 walk lites (Deduct from HPR2_P209)	EL_HPR2_L208.KV2.KWH
Inactive HPR2 Ramp II Traffic Signals Inst Rd (Deduct from HPR2_P209)	EL_HPR2_L210.KV2.KWH
Inactive HPR2 Parking Ramp II (Primary)	EL_HPR2_P209.KV2.KWH
HPR2 (KWH)	EL_HPR2_S432.KV2.KWH
HPR2 (Valet Booth) KWH	EL_HPR2_S474.KV2.KWH
HPR2 (Valet Booth) KWH	EL_HPR2_S475.KV2.KWH
HPR2 (road lites) KWH	EL_HPR2_S476.KV2.KWH
HPR2 (road lites) KWH	EL_HPR2_S477.KV2.KWH
HPR2 (canopy lites) KWH	EL_HPR2_S478.KV2.KWH
HPR2 (inflation unit) KWH	EL_HPR2_S479.KV2.KWH
HPR4 Campus Lights (Deduct from HPR4_S313)	EL_HPR4_L312.KV2.KWH
HPR4 Walk Lights (Deduct from HPR4_S313)	EL_HPR4_L315.KV2.KWH

HPR4 T016 KWH	EL_HPR4_P314.KV2.KWH
HPR4 Ramp 4 (Deduct from PFP_P348)	EL_HPR4_S313.KV2.KWH
HWBF- KWH	EL_HWBF_S444.KV2.KWH
IATL Madison Street Lights (Deduct from IATL_P043)	EL_IATL_L047.KV2.KWH
IATL Campus Lights (Deduct from IATL_P043)	EL_IATL_L048.KV2.KWH
IATL T065 KWH	EL_IATL_P043.KV2.KWH
IATL T063 KWH	EL_IATL_P044.KV2.KWH
IATL T064 KWH	EL_IATL_P045.KV2.KWH
IATL T062 KWH	EL_IATL_P046.KV2.KWH
IMU Campus Lights (Deduct from IMU_P049)	EL_IMU_L051.KV2.KWH
IMU T027 KWH	EL_IMU_P049.KV2.KWH
IMU T028 KWH	EL_IMU_P050.KV2.KWH
HFPC T055 KWH	EL_IPF_P419.KV2.KWH
HFPC T056 KWH	EL_IPF_P420.KV2.KWH
IREH - Oakdale Campus Street Lights KWH	EL_IRES_L441.KV2.KWH
IREH (Primary) KWH	EL_IRES_P454.KV2.KWH
IREH (Laser Lab) KWH	EL_IRES_S455.KV2.KWH
ITF T-40 Primary - Utility 1 North feed	EL_ITF_P394.KV2.KWH
ITF T-41 Primary - Utility 2 South feed	EL_ITF_P395.KV2.KWH
ITF PDU-131-A-2 (KWH)	EL_ITF_S396.KV2.KWH
ITF PDU-131-A-1 (KWH)	EL_ITF_S397.KV2.KWH
ITF PDU-131-A-3 (KWH)	EL_ITF_S398.KV2.KWH
ITF PDU-135-A-1 (KWH)	EL_ITF_S399.KV2.KWH
ITF PDU-135-A-2 (KWH)	EL_ITF_S400.KV2.KWH
ITF PDU-135-B-2 (KWH)	EL_ITF_S401.KV2.KWH
ITF PDU-135-B-1 (KWH)	EL_ITF_S402.KV2.KWH
ITF PDU-131-B-3 (KWH)	EL_ITF_S403.KV2.KWH
ITF PDU-131-B-2 (KWH)	EL_ITF_S404.KV2.KWH
ITF PDU-131-B-1 (KWH)	EL_ITF_S405.KV2.KWH
ITF PDU-135-RCH-1 (KWH)	EL_ITF_S406.KV2.KWH
ITF DP-A-1 Room 131 CRAH panel (KWH)	EL_ITF_S407.KV2.KWH
ITF DP-A-2 Room 135 CRAH panel (KWH)	EL_ITF_S408.KV2.KWH
ITF DP-B-1 Room 131 CRAH panel (KWH)	EL_ITF_S409.KV2.KWH
ITF DP-B-2 Room 135 CRAH panel (KWH)	EL_ITF_S410.KV2.KWH
ITF	EL_ITF_S462.KV2.KWH
JCP Emergency Roadway Lights (Deduct from JCP_P316)	EL_JCP_L318.KV2.KWH
JCP Colloton Pavilion Walk Lights (Deduct from JCP_P316)	EL_JCP_L327.KV2.KWH

JCP T042 KWH	EL_JCP_P316.KV2.KWH
JCP T041 KWH	EL_JCP_P317.KV2.KWH
JCP T188 KWH	EL_JCP_P319.KV2.KWH
JCP T189 KWH	EL_JCP_P320.KV2.KWH
JCP T169 KWH	EL_JCP_P321.KV2.KWH
JCP T190 (West) KWH	EL_JCP_P322.KV2.KWH
JH T050 KWH	EL_JH_P076.KV2.KWH
JPP East T219 (Primary)	EL_JPP_P328.KV2.KWH
JPP T218 (East Pavilion) KWH	EL_JPP_P329.KV2.KWH
JPP T216 KWH	EL_JPP_P330.KV2.KWH
JPP T217 KWH	EL_JPP_P331.KV2.KWH
KS N. End Game Light (Deduct from KS_P223)	EL_KS_L216.KV2.KWH
KS S. End Game Light (Deduct from KS_P223)	EL_KS_L217.KV2.KWH
KS Stadium Drive Lights (Deduct from KS_P223)	EL_KS_L218.KV2.KWH
KS parking West Stadium Lot #43 (Deduct from KS_P223)	EL_KS_L220.KV2.KWH
KS South Walk lights (Deduct from KS_P223)	EL_KS_L221.KV2.KWH
KS T5/T82 (Primary)	EL_KS_P222.KV2.KWH
KS T233 KWH	EL_KS_P223.KV2.KWH
KS T234 KWH	EL_KS_P224.KV2.KWH
KS T232 KWH	EL_KS_P225.KV2.KWH
KS T231 KWH	EL_KS_P226.KV2.KWH
KS US Cellular phone (Deduct from KS_P223)	EL_KS_S213.KV2.KWH
KS Verizon phone (Deduct from KS_P223)	EL_KS_S214.KV2.KWH
KS Spare (Deduct from KS_P223)	EL_KS_S215.KV2.KWH
L (Oakdale Laundry) - KWH	EL_L_P439.KV2.KWH
LC Addition Walk Lights (Deduct from LC_P053)	EL_LC_L052.KV2.KWH
LC T086 KWH	EL_LC_P053.KV2.KWH
LC T075 KWH	EL_LC_P054.KV2.KWH
LCUA T003 KWH	EL_LCUA_P227.KV2.KWH
LIB Institutional Roads and Lighting (Deduct from LIB_P059)	EL_LIB_L055.KV2.KWH
LIB Walk Lights (Deduct from LIB_P060)	EL_LIB_L056.KV2.KWH
LIB Basement Lot #3 (Deduct from LIB_P060)	EL_LIB_L057.KV2.KWH
LIB T017 KWH	EL_LIB_P058.KV2.KWH
LIB T018 KWH	EL_LIB_P059.KV2.KWH

LIB T089 KWH	EL_LIB_P060.KV2.KWH
MA Walk Lights (Deduct from MA_P229)	EL_MA_L228.KV2.KWH
MA (Primary)	EL_MA_P229.KV2.KWH
MEB Walk Lights (Deduct from BT_P277)	EL_MEB_L332.KV2.KWH
MEB T025 KWH	EL_MEB_P338.KV2.KWH
MERF T073 KWH	EL_MERF_P343.KV2.KWH
MERF T074 KWH	EL_MERF_P344.KV2.KWH
MH T049 KWH	EL_MH_P078.KV2.KWH
ML Skunk Hollow Lights (Deduct from ML_P354)	EL_ML_L336.KV2.KWH
ML T093 KWH	EL_ML_P353.KV2.KWH
ML T094 KWH	EL_ML_P354.KV2.KWH
ML C.T. Scanner (Deduct from ML_P354)	EL_ML_S333.KV2.KWH
MLH Pentacrest Lights (Deduct from MLH_P062)	EL_MLH_L061.KV2.KWH
MLH T017B KWH	EL_MLH_P062.KV2.KWH
MRC T142 KWH	EL_MRC_P334.KV2.KWH
MRC T137 KWH	EL_MRC_P335.KV2.KWH
MRC Grand Ave. Tunnel Venilation Fans (Deduct From MRC_P335)	EL_MRC_S378.KV2.KWH
MRF T103 KWH	EL_MRF_P360.KV2.KWH
MSSB T011 KWH	EL_MSSB_P249.KV2.KWH
NB T153 KWH	EL_NB_P337.KV2.KWH
NCP Lot #18 North Hall (Deduct from NCP_P065)	EL_NCP_L068.KV2.KWH
NCP T209 KWH	EL_NCP_P065.KV2.KWH
NCP T205 KWH	EL_NCP_P066.KV2.KWH
NCP T208 KWH	EL_NCP_P067.KV2.KWH
NCP Parking Ramp (Deduct from NCP_P065)	EL_NCP_S063.KV2.KWH
NCP City Well (Deduct from NCP_S063)	EL_NCP_S064.KV2.KWH
NH Steps and Sidewalk Lights (Deduct from NH_P070)	EL_NH_L069.KV2.KWH
NH (Primary)	EL_NH_P070.KV2.KWH
NRPSStreet Lights (Deduct from NPR_P342)	EL_NPR_L340.KV2.KWH
NRP Bridge Wall Lights (Deduct from NPR_P342)	EL_NPR_L341.KV2.KWH
NRP T045 KWH	EL_NPR_P342.KV2.KWH
NRP Parking Ramp (Deduct from NPR_P342)	EL_NPR_S339.KV2.KWH
Oakdale Generation	EL_OAK_GEN_FWD_KWH
Oakdale Generation	EL_OAK_GEN_REV_KWH
Oakdale Purchased Electricity	EL_OAK_PUR_FWD_KWH

Oakdale Purchased Electricity	EL_OAK_PUR_REV_KWH
Oakdale TOTAL Electricity	EL_OAK_TOTAL_FWD_KWH
Oakdale TOTAL Electricity	EL_OAK_TOTAL_REV_KWH
Old Biology Bldg Kilowatt Hours	EL_OBB.FEEDER.KWH
OBG - Oakdale Greenhouse KWH	EL_OBG_S449.KV2.KWH
OC T050 KWH	EL_OC_P077.KV2.KWH
OIGS - Oakdale Geological Survey Bldg KWH	EL_OIGS_S453.KV2.KWH
Inactive OMB (Deduct from SSH_P086) - Meter Removed 8/18/2010	EL_OMB_S087.KV2.KWH
OPP (Street Lights N. of OD-PP) KWH	EL_OPP_L463.KV2.KWH
OPPS KWH	EL_OPPS_P440.KV2.KWH
OWH - Oakdale Well house large well pump (East Side) KWH	EL_OWH_S433.KV2.KWH
OWH - Oakdale Well house & west well pump KWH	EL_OWH_S452.KV2.KWH
P T141 KWH	EL_P_P461.KV2.KWH
PBB Parking Ramp Lights (Deduct from NCP_P065)	EL_PBB_L072.KV2.KWH
PBB Walk Lights (Primary)	EL_PBB_L073.KV2.KWH
PBB Walk Lights (Deduct from NCP_P065)	EL_PBB_L075.KV2.KWH
PBB T091 KWH	EL_PBB_P071.KV2.KWH
PBB T092 KWH	EL_PBB_P074.KV2.KWH
BSB Sidewalk Lights and Lot #38 (Deduct from PBDB Primary)	EL_PBDB_L282.KV2.KWH
PBDB T165 KWH	EL_PBDB_P416.KV2.KWH
PBDB T164 KWH	EL_PBDB_P417.KV2.KWH
PC (Deduct from BHC_P014)	EL_PC_S013.KV2.KWH
PFP T229 KWH	EL_PFP_P345.KV2.KWH
PFP T230 KWH	EL_PFP_P346.KV2.KWH
PFP Spare (Primary)	EL_PFP_P347.KV2.KWH
PFP T224 KWH	EL_PFP_P348.KV2.KWH
PFP T225 KWH	EL_PFP_P349.KV2.KWH
PFP T226 KWH	EL_PFP_P350.KV2.KWH
PFP T227 KWH	EL_PFP_P351.KV2.KWH
PFP T228 KWH	EL_PFP_P352.KV2.KWH
PH Room 14 Basement (Primary)	EL_PH_P079.KV2.KWH
PHAR T220 (Old North) KWH	EL_PHAR_P357.KV2.KWH
PHAR T221 (New) KWH	EL_PHAR_P358.KV2.KWH
PHAR T101 (Minimal Care South Wing) KWH	EL_Pharm_P359.KV2.KWH
PP Lot lights #53	EL_PP_L162.KV2.KWH
PP T194 (Sub 4 - Mechanical) KWH	EL_PP_P163.KV2.KWH

PP T193 (Sub 3 - Mechanical) KWH	EL_PP_P164.KV2.KWH
PP T192 (Delivered from Utility to Sub 2) KWH	EL_PP_P165.KV2.KWH
PP T191 (Delivered from Utility to Sub 1) KWH	EL_PP_P166.KV2.KWH
PP T195 (Sub 5 - Mechanical) KWH	EL_PP_P167.KV2.KWH
PP T196 (Sub 6 - Mechanical) KWH	EL_PP_P168.KV2.KWH
PP T197 (Sub 9 - 5KV Motor Starter) KWH	EL_PP_P169.KV2.KWH
PP DG#7 KWH Output	EL_PP_P170.KV2.KWH
PP T222 (Sub 7 - Feedwater Pump Bldg) KWH	EL_PP_P171.KV2.KWH
PRL - Oakdale Phsyiology Lab KWH	EL_PRL_S447.KV2.KWH
R Campus Lighting Rienow (Deduct from R_P365)	EL_R_L364.KV2.KWH
R T127 KWH	EL_R_P365.KV2.KWH
R Rienow Phone Switching Room (Deduct from R_P365)	EL_R_S363.KV2.KWH
RB Bike Path (Deduct from RB_P239)	EL_RB_L233.KV2.KWH
RB South of Arena Parking Lot #75 (Deduct from RB_P239)	EL_RB_L234.KV2.KWH
RB Hawkins Drive Lights - Inst Roads (Deduct from RB_P239)	EL_RB_L241.KV2.KWH
RB Practice Field Lights (Primary)	EL_RB_P236.KV2.KWH
RB Baseball Field (Deduct from RB_P239)	EL_RB_S231.KV2.KWH
RB Baseball Field (Deduct from RB_P239)	EL_RB_S232.KV2.KWH
RB Baseball Scoreboard (Deduct from RB_P239)	EL_RB_S235.KV2.KWH
RB (Deduct from RB_P239)	EL_RB_S237.KV2.KWH
RB Recreation Building Addition (Deduct from RB_P239)	EL_RB_S238.KV2.KWH
RB Practice Facility (Deduct from RB_P239)	EL_RB_S240.KV2.KWH
RCP Carver Walk Lights (Deduct from PHAR_P357)	EL_RCP_L355.KV2.KWH
RMD T123 KWH	EL_RMD_P242.KV2.KWH
RPLS - Oakdale Campus Shops by IFF KWH	EL_RPLS_S446.KV2.KWH
S Campus Lighting Slater (Deduct from S_P368)	EL_S_L367.KV2.KWH
S T034 KWH	EL_S_P368.KV2.KWH
SC T019 (Electrical Eng) KWH	EL_SC_P027.KV2.KWH
SC T020 (Electrical Eng) KWH	EL_SC_P030.KV2.KWH
SC T021 (Mechanical Eng) KWH	EL_SC_P031.KV2.KWH
SC T040 (Engineering Annex) KWH	EL_SC_P032.KV2.KWH
SC Mechanical Engineering (Deduct from SC_P030)	EL_SC_S029.KV2.KWH

SH T017A KWH	EL_SH_P080.KV2.KWH
SHC Walk Lights (Deduct from SHC_P371)	EL_SHC_L369.KV2.KWH
SHC West Tower Lights (Deduct from SHC_P371)	EL_SHC_L370.KV2.KWH
South Hospital Road Lights (Deduct from SHC_P371)	EL_SHC_L372.KV2.KWH
SHC Traffic Signals & Inst Lights (Deduct from SHC_P371)	EL_SHC_L373.KV2.KWH
SHC Speech and Hearing (Primary)	EL_SHC_P371.KV2.KWH
SHL River Walk Lights (Deduct from SHL_P206)	EL_SHL_L207.KV2.KWH
SHL T024 KWH	EL_SHL_P206.KV2.KWH
SLP (Primary)	EL_SLP_P081.KV2.KWH
Bus Barn Solar Collector 5KW Unit 1 -KWH	EL_Solar_BusBarn_5K-1_KWH
Bus Barn Solar Collector 5KW Unit 2 - KWH	EL_Solar_BusBarn_5K-2_KWH
Bus Barn Solar Collector 7KW Unit 1 - KWH	EL_Solar_BusBarn_7K-1_KWH
Bus Barn Solar Collector 7KW Unit 2 - KWH	EL_Solar_BusBarn_7K-2_KWH
Bus Barn Solar Collector 7KW Unit 3 - KWH	EL_Solar_BusBarn_7K-3_KWH
Bus Barn Solar Collector 7KW Unit 4 - KWH	EL_Solar_BusBarn_7K-4_KWH
Bus Barn Solar Collector Total KW	EL_Solar_BusBarn_Total_KWH
Car Charging Solar Collector 6KW Unit 1 - KWH	EL_Solar_CarCharging_6K-1_KWH
Car Charging Solar Collector 7KW Unit 1 - KWH	EL_Solar_CarCharging_7K-1_KWH
Car Charging Solar Collector 7KW Unit 2 - KWH	EL_Solar_CarCharging_7K-2_KWH
Car Charging Solar Collector 7KW Unit 3 - KWH	EL_Solar_CarCharging_7K-3_KWH
Car Charging Solar Collector 7KW Unit 4 - KWH	EL_Solar_CarCharging_7K-4_KWH
Car Charging Solar Collector 7KW Unit 5- KWH	EL_Solar_CarCharging_7K-5_KWH
Car Charging Solar Collector 7KW Unit 6- KWH	EL_Solar_CarCharging_7K-6_KWH
Car Charging Solar Collector Total KW	EL_Solar_CarCharging_Total_KWH
Parking Lot #14 Bldg 115 (Deduct from S_S366)	EL_SQ_L374.KV2.KWH
SQ (Deduct from S_P368)	EL_SQ_S366.KV2.KWH
STH Lot #2 (Deduct from SSH_P086)	EL_SSH_L082.KV2.KWH
SSH Campus Lighting (Deduct from SSH_P086)	EL_SSH_L083.KV2.KWH
SSH 1st Door Downstairs (Primary)	EL_SSH_P085.KV2.KWH
SSH (Primary)	EL_SSH_P086.KV2.KWH
SSH Education Media Building (Deduct from SSH_P086)	EL_SSH_S084.KV2.KWH

STAN Walk Lights along River (Deduct from STAN_S088)	EL_STAN_L089.KV2.KWH
STAN Parking Lot Gate North of Currier (Deduct from STAN_S088)	EL_STAN_L090.KV2.KWH
STAN Stanley House (Deduct from C_P018)	EL_STAN_S088.KV2.KWH
STH T154 (fka OMB_S087) KWH	EL_STH_P381.KV2.KWH
TB parking lot (Deduct from TB_P245)	EL_TB_L244.KV2.KWH
TB T087 KWH	EL_TB_P245.KV2.KWH
TB T029 KWH	EL_TB_P246.KV2.KWH
TH (Primary)	EL_TH_P091.KV2.KWH
TIC KWH	EL_TIC_L434.KV2.KWH
TIC - Building Walk Lights KWH	EL_TIC_L437.KV2.KWH
TIC - Incinerator	EL_TIC_S435.KV2.KWH
TIC KWH	EL_TIC_S436.KV2.KWH
TIC - Building A/C	EL_TIC_S438.KV2.KWH
UBS Book Store (Deduct from WCP_P263)	EL_UBS_S250.KV2.KWH
UCC T239 KWH	EL_UCC_P034.KV2.KWH
UCC T240 KWH	EL_UCC_P035.KV2.KWH
USB Parking Lot Lights & Gate (Deduct from USB_P248)	EL_USB_L247.KV2.KWH
USB T069 KWH	EL_USB_P248.KV2.KWH
VAB T084 KWH	EL_VAB_P468.KV2.KWH
VAN Lighting (Deduct from VAN_P092) Meter Removed 02/10/2011	EL_VAN_L096.KV2.KWH
Meter Removed 02/10/2011 VAN (Primary)	EL_VAN_P092.KV2.KWH
VAN (Primary)	EL_VAN_P093.KV2.KWH
VAN II Lights and Power (Primary)	EL_VAN_P094.KV2.KWH
Meter Removed 02/10/2011 VAN Q Machine (Primary)	EL_VAN_P095.KV2.KWH
VOX T090 KWH	EL_VOX_P428.KV2.KWH
WCP T148 KWH	EL_WCP_P251.KV2.KWH
WCP T149 (York OM5) KWH	EL_WCP_P252.KV2.KWH
WCP T150 (York OM6) KWH	EL_WCP_P253.KV2.KWH
WCP T156 (YK3A) KWH	EL_WCP_P254.KV2.KWH
WCP T147 (YK3B) KWH	EL_WCP_P255.KV2.KWH
WCP T081 (West Chiller 01) KWH	EL_WCP_P256.KV2.KWH
WCP T102 KWH	EL_WCP_P257.KV2.KWH
WCP T088 (West Chiller 02) KWH	EL_WCP_P258.KV2.KWH
WCP T138 KWH	EL_WCP_P259.KV2.KWH
WCP T187 (Centravac 1 & 2) KWH	EL_WCP_P260.KV2.KWH
WCP T008 KWH	EL_WCP_P263.KV2.KWH
WCP 4160 Motor Unit (Primary)	EL_WCP_P264.KV2.KWH

WCP T085 KWH	EL_WCP_P265.KV2.KWH
WCP T104 KWH	EL_WCP_P267.KV2.KWH
WCP T204 KWH	EL_WCP_P268.KV2.KWH
WCP T215 KWH	EL_WCP_P269.KV2.KWH
WCP T166 KWH	EL_WCP_P270.KV2.KWH
WCP Chiller Ramp (Deduct from WCP_P263)	EL_WCP_S261.KV2.KWH
WCP Chiller Ramp and Medical Resources (Deduct from WCP_P263)	EL_WCP_S262.KV2.KWH
WCP - Temp Boiler House (Deduct from CWP_P263)	EL_WCP_S266.KV2.KWH
WCTC	EL_WCTC_L415.KV2.KWH
WCTC - Ground Transportation Ctr	EL_WCTC_S413.KV2.KWH
WCTC - SKYWALK	EL_WCTC_S414.KV2.KWH
WL Campus Lighting (Deduct from WL_P377)	EL_WL_L375.KV2.KWH
WL T143 KWH	EL_WL_P377.KV2.KWH
WP T200 KWH	EL_WP_P097.KV2.KWH
WP T201 KWH	EL_WP_P098.KV2.KWH
** INACTIVE ** WRAC (Deduct from IATL_P043)	EL_WRAC_S099.KV2.KWH
Biomedical Research Support Facility	EL_BRSF_L460
Biomedical Research Support Facility	EL_BRSF_S458
Biomedical Research Support Facility	EL_BRSF_S459
Environmental Management Facility	EL_EMF_S445
Environmental Management Facility	EL_RPLS_S446
Hydraulics Annex 1	EL_HA1_S448
Hydraulics Annex 2	EL_HA2_S442
Hydraulics Wave Basin Facility	EL_HWBF_S444
Hydraulics Wave Basin Facility	EL_OWH_S433
Information Technology Facility	EL_ITF_P394
Information Technology Facility	EL_ITF_P395
Institute for Rural and Environmental Health	EL_IRES_P454
Institute for Rural and Environmental Health	EL_IRES_S455
Iowa Geological Survey- Oakdale	EL_OIGS_S453
Laundry	EL_L_P439
Oakdale Biology Greenhouse	EL_OBG_S449
Oakdale Storage K	EL_TIC_S435
Physiology Research Laboratory	EL_HA1_S448
Physiology Research Laboratory	EL_PRL_S447
Research Park Landscape Service	EL_RPLS_S446

State Hygienic Laboratory	EL_HLI_S456
State Hygienic Laboratory	EL_HLI_S457
State Hygienic Laboratory	EL_HLI_S469
State Hygienic Laboratory	EL_HLI_S470
State Hygienic Laboratory	EL_HLI_S471
State Hygienic Laboratory	EL_HLI_S472
State Hygienic Laboratory	EL_HLI_S473
Technology Innovation Center	EL_TIC_L437
Technology Innovation Center	EL_TIC_S435
Technology Innovation Center	EL_TIC_S436
Technology Innovation Center	EL_TIC_S438

Table 4: Building list with CW and Steam Meters

Bldg#	Building Name	Region	Critical Facility? (Schedule 15)	CW?	CW Meter # (See Table 1)	Steam?	Steam Meter # (see Table 2)	Elect?	Electrical Monitoring Points (see Table 3)
0001	Old Capitol	Main		Yes	32	Yes	21	Yes	
0002	Schaeffer Hall	Main		Yes	33	Yes	22	Yes	
0003	Chemistry Building	Main	Yes	Yes	19, 82 (w)	Yes	54, 55	Yes	
0004	Jessup Hall	Main		Yes	71	Yes	23	Yes	
0006	Pharmacy Building	Main	Yes	Yes	22, 28, 64 (w)	Yes	89, 90, 94, 95	Yes	
0007	Calvin Hall	Main		Yes	23, 60	Yes	50	Yes	
0008	Macbride Hall	Main		Yes	26, 84	Yes	24	Yes	
0011	Seashore Hall	Main		Yes	58	Yes	41, 43, 44, 129	Yes	
0015	Halsey Hall	Main		No		Yes	42, 48, 150	Yes	
0016	Communications Center	Main		No		Yes	16	Yes	
0018	Biology Building	Main	Yes	Yes	45, 57 (w), 75 (verify), 76 (All need verified against actual)	Yes	34, 35, 52	Yes	

0019	Sciences Library	Main		Yes	46	Yes	32	Yes	
0020	Stuit Hall	Main		Yes	94	Yes	44	Yes	
0021	Art Building	Main		No		Yes	73	Yes	
0022	Seamans Center	Main		Yes	44, 63	Yes	18, 19	Yes	
0023	MacLean Hall	Main		Yes	31, 100	Yes	20	Yes	
0024	Stanley Hydraulics Lab	Main		No		Yes	80	Yes	
0025	Pappajohn Biomedical Discov Bldg	Main	yes	Yes	092, 093 (w)	Yes	151, 152	Yes	
0026	State Hygienic Laboratory	Oak	yes	Yes	151?	Yes	137	Yes	
0028	Medical Laboratories	Main	yes	Yes	18	Yes	91, 92	Yes	
0029	Trowbridge Hall	Main		Yes	15, 53	Yes	53	Yes	
0031	General Hospital	Main	yes	Yes		Yes	105, 106, 144	Yes	
0033	Westlawn	Main		Yes	50	Yes	120	Yes	
0034	Medical Education Building	Main	yes	Yes	12, 69 (w)	Yes	113, 114	Yes	
0035	North Hall	Main		Yes	55, 56	Yes	60	Yes	
0037	Art Building West	Main		Yes	72, 73	Yes	135	Yes	
0038	Gilmore Hall	Main		Yes	24, 59	Yes	51	Yes	
0039	Presidents Residence	Main		No		Yes	66		
0040	Field House	Main		Yes	110	Yes	87, 88	Yes	
0042	Kinnick Stadium	Main		Yes	74, 80	Yes	134, 223	Yes	
0044	Currier Hall	Main		No		Yes	64, 65	Yes	
0046	Iowa Memorial Union	Main		Yes	13, 14	Yes	27, 28, 29	Yes	
0050	Theatre Building	Main		Yes	65, 78	Yes	68	Yes	
0052	Power Plant Main	Main		No		Yes		Yes	
0064	Medical Research Center	Main	yes	Yes	01, 18 (verify)	Yes	108	Yes	
0068	Camp Rec & Wellness Ctr	Main		Yes	87, 88	Yes	26	Yes	
0072	University Capitol Centre	Main		Yes	81	Yes	179	Yes	
0073	Burge Hall	Main		Yes	20, 54	Yes	59, 62, 63	Yes	
0075	College of Public Health Bldg	Main		Yes	90, 91	Yes	139	Yes	

0090	Visual Arts Building	Main		Yes	111	Yes	206	Yes	
0106	College of Pharmacy - Constn	Main	yes	Yes	120, 121	no	217, 218, 219	Yes	
0112	Hillcrest Hall	Main		No		Yes	76, 79	Yes	
0115	South Quad	Main		No		Yes	86	Yes	
0118	Ctr for Disabilities and Dev	Main		Yes	39	Yes	124	Yes	
0120	Hancher	Main		Yes	42, 108	Yes	69	Yes	
0125	Voxman Music Building	Main		Yes	113	Yes	211	Yes	
0128	Duane Banks Field	Main		No		no		Yes	
0129	Oakdale Animal Quarters A	Oak		No		Yes	141	Yes	
0132	Landscape Services Complex	Main		No		Yes	3		
0134	Dey House	Main		No		Yes	66		
0136	Main Library	Main		Yes	30, 99, 115	Yes	11	Yes	
0160	Madison Street Services Building	Main		No		no		Yes	
0181	South Wing	Main	yes	Yes		Yes	No Meter, Usage is estimated	Yes	
0182	Medical Research Facility	Main	yes	Yes	05,	Yes	103, 104	Yes	
0183	Iowa Memorial Union Parking Ramp	Main		No		Yes	150	Yes	
0184	Phillips Hall	Main		Yes	52	Yes	31	Yes	
0185	Water Plant Main	Main		No		Yes	9	Yes	
0188	Spence Labs	Main	yes	Yes	48, 79	Yes	43, 220, 222	Yes	
0189	Psychological and Brain Sciences - Construction	Main	Yes	Yes		Yes		Yes	
0196	English-Philosophy Building	Main		Yes	29	Yes	13	Yes	

0198	Wendell Johnson Speech & Hearing	Main		Yes	51	Yes	123	Yes	
0203	Van Allen Hall	Main		Yes	47	Yes	38, 39	Yes	
0204	Bowen Science Building	Main	yes	Yes	6, 38, 118	Yes	111, 112	Yes	
0213	Inst for Rural and Env Health	Main		No		Yes	142	Yes	
0220	Hospital Parking Ramp 1	Main		No		no		Yes	
0222	Old Museum of Art	Main		Yes	66	Yes	70	Yes	
0227	Technology Innovation Center	Oak		No		Yes	185	Yes	
0230	Oakdale Studio A	Oak		No		Yes	184	Yes	
0239	Oakdale Utility Power Plant	Oak		No		no		Yes	
0241	Environmental Management Fac	Oak		Yes	150	Yes	HW149	Yes	
0242	Oakdale Shops Building A	Oak		No		Yes	193	Yes	
0243	Oakdale Shops Building B	Oak		No		Yes	186	Yes	
0244	Oakdale Storage K (Bat Cave)	Oak		No		no		Yes	
0245	Biomedical Research Support Fac	Oak	yes	Yes	152, 153	Yes	HW154, 194	Yes	
0246	Oakdale Shops Building C	Oak		No		Yes	186	Yes	
0252	Oakdale Well House	Oak		No		no		Yes	
0256	Oakdale Chiller Plant	Oak		No		no		Yes	
0272	Catlett Residence Hall	Main		Yes	116, 117	Yes	216	Yes	
0273	Rienow Hall	Main		No		Yes	84	Yes	
0274	Slater Hall	Main		No		Yes	85	Yes	
0275	Petersen Residence Hall	Main		Yes	95	Yes	148	Yes	
0276	Daum Hall	Main		Yes	125	Yes	58	Yes	

0277	Stanley Hall	Main		No		Yes	61	Yes	
0278	Dental Science Building	Main		Yes	16, 17, 41	Yes	127	Yes	
0290	Information Technology Fac	Oak	yes	Yes	148	Yes	HW147	Yes	
0291	Oakdale Shops Building D	Oak		No		Yes	193		
0293	Hardin Library for Health Sci	Main		Yes	11, 101	Yes	116	Yes	
0304	Recreation Building	Main		Yes	25	Yes	100	Yes	
0305	Oakdale Research Facilities	Oak		No		Yes	189	Yes	
0308	Chilled Water Plant 2 (West)	Main		No		Yes	203	Yes	
0309	UIHC Central Emerg Pwr Gen Fac	Main		No		no		Yes	
0314	Chilled Water Plant 1	Main		No		Yes	197, 198	Yes	
0316	Lindquist Center	Main	yes	Yes	61, 62, 86, 109	Yes	14, 17	Yes	
0318	West Campus Transp Ctr - Parking	Main		Yes	102, 103	Yes	145	Yes	
0321	Oakdale Power Plant Substation	Oak		No		no		Yes	
0322	Nursing Building	Main		Yes	21	Yes	121	Yes	
0330	Physiology Research Laboratory	Oak		No		Yes	188	Yes	
0343	Boyd Tower	Main	yes	Yes	4, 37	Yes	107	Yes	
0346	West Campus Steam Plant	Main		No		Yes		Yes	
359	Carver Pavilion	Main	yes	Yes	10, 83	Yes	208, 209	Yes	
0370	Iowa Geological Survey	Oak		No		Yes	140	Yes	
0373	Hydraulics Annex 1	Oak		No		Yes	192	Yes	
0374	Carver-Hawkeye Arena	Main		No		Yes	128	Yes	
375	Colloton Pavilion	Main	yes	Yes	9	Yes	154, 204, 205	Yes	

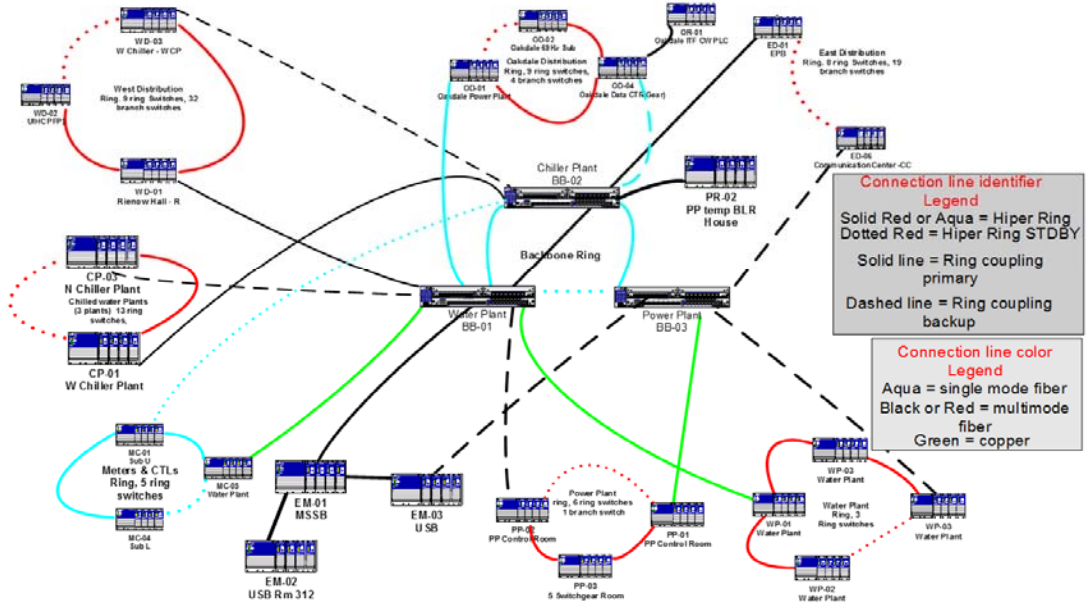
0376	Becker Comm Studies Bldg	Main		Yes	49	Yes	12	Yes	
0377	Boyd Law Building	Main		Yes	106, 107	Yes	81	Yes	
0382	Research Park Landscape Service	Oak		No		no		Yes	
0389	Hope Lodge	Main		No		no		Yes	
0393	Hydraulics Wind Tunn Anx	Main		No		Yes	4		
0395	Hansen Football Performance Ctr	Main		Yes	104	no		Yes	
0400	Children's Hospital	Main	yes	Yes	97	Yes	207	Yes	
0401	Eckstein Medical Research Bldg	Main	yes	Yes	18	Yes	110, 115, 138	Yes	
0403	Hospital Parking Ramp 2	Main		No		Yes	212	Yes	
0407	Engineering Research Fac	Main		Yes	85	Yes	45		
0412	Hosp Parking Ramp 3	Main		Yes	2 Meters - No automation	Yes	198	Yes	
0413	Oakdale Biology Greenhouse	Oak		No		Yes	187	Yes	
0417	UIHC Integrated Svcs Ctr- CONST	Oak	yes	Yes		no		Yes	
0418	Iowa Advanced Tech Lab	Main	yes	Yes	36	Yes	190	Yes	
0420	Hydraulics Wave Basin Facility	Oak		No		no		Yes	
0421	Pappajohn Pavilion	Main	yes	Yes	8	Yes	153	Yes	
0422	N Campus Parking Ramp	Main		No		Yes	96, 97	Yes	
0424	Oakdale 69KV Substation	Oak		No		no		Yes	
0425	College of Medicine Admn Bldg	Main		Yes	18	Yes	133		
0430	Pappajohn Business Bldg	Main		Yes	35	Yes	200	Yes	
0431	Pomerantz Family Pavilion	Main	yes	Yes	7	Yes	49	Yes	

0433	Hospital Parking Ramp 4	Main		No		no		Yes	
0434	Levitt Ctr for Univ Advancement	Main		No		no		Yes	
0435	Multi-Tenant Facility	Oak		No		Yes	132		
0440	Hydraulics Annex 2	Oak		No		no		Yes	
0441	Laundry	Oak		No		no		Yes	
0443	Newton Road Ramp	Main		No		Yes	147	Yes	
0447	Medical Education Research Fac	Main	yes	Yes	40, 77	Yes	165, 166	Yes	
0448	Biology Building East	Main	yes	Yes	27	Yes	33, 36	Yes	
0450	University Services Building	Main		No		no		Yes	
0454	Blank Honors Center	Main		Yes	34	Yes	98	Yes	
0455	Carver Biomedical Research Bldg	Main	yes	Yes	67, 68	Yes	167, 168	Yes	
0456	Adler Journalism Mass Comm Bldg	Main		Yes	70	Yes	130	Yes	
0458	Pomerantz Center	Main		Yes	43	Yes	99	Yes	
0496	Ronald McDonald House	Main		No		no		Yes	
0497	State Historical Society	Main		No		Yes			

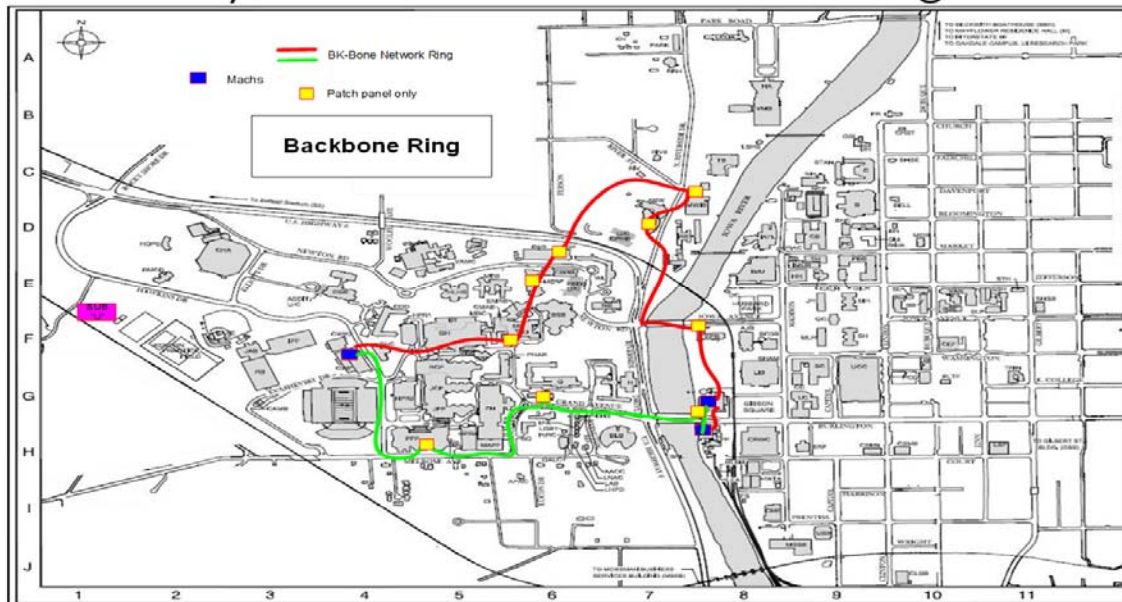
APPENDIX P

Utility Network Map

Network Overview

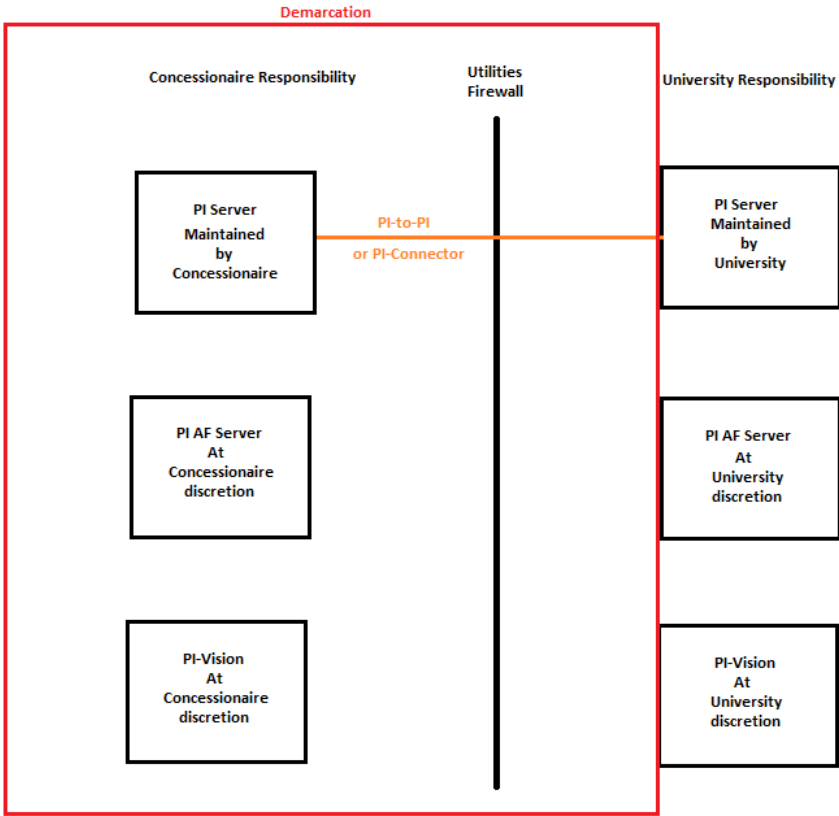


Physical Fiber Path Backbone Ring

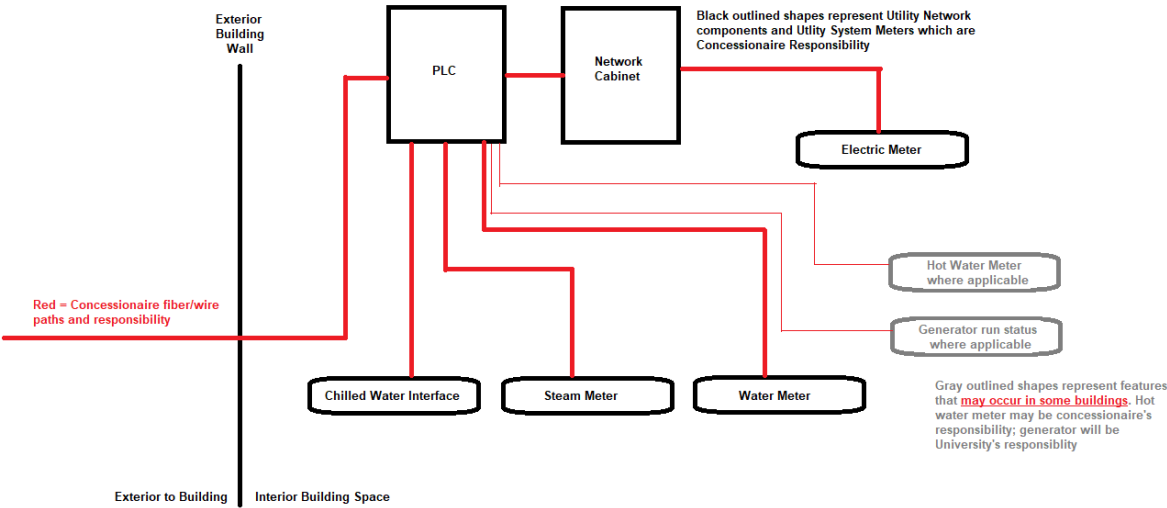


Lines of Demarcation

Future Demarcation for OSISoft PI System



Utility Network Demarcation Within Buildings



APPENDIX Q

Reserved

APPENDIX R

Reserved

APPENDIX S

Reserved

APPENDIX T

Safety, Health and Environment Policy

Chapter 43 – Safety, Health, and Environment Policy

(Amended 3/01; 3/05; 3/09; 9/14)

- [43.1 General](#)
- [43.2 Guiding Principles](#)
- [43.3 Commitments](#)

43.1 General

The University of Iowa is committed to excellence and leadership in protecting the environment and the safety and health of its students, faculty, staff, patients, and visitors. Towards that end, the University shall exercise responsible stewardship over the resources entrusted to it.

43.2 Guiding Principles

In support of this commitment, the University adopts the following guiding principles. The University will:

- a. Comply with applicable safety, health, and environmental laws and regulations.
- b. Recognize appropriate safety and environmental management as among its highest priorities and establish policies, programs, and practices for conducting operations in a healthy, safe, and environmentally sound manner.
- c. Strive to increase awareness of environmental issues and the impact of the University's activities on the environment, and to educate, train, and motivate members of the University community to conduct their activities in an environmentally responsible manner.
- d. Strive to increase the University community's understanding of how to work safely, reduce injuries, and minimize events that could adversely affect the safety and health of individuals and the environment.
- e. Foster openness and dialogue, including the involvement of and communication with the University community, thereby anticipating and responding to their concerns about potential hazards and impacts of operations, services, or wastes.
- f. Develop, design, and operate our facilities and conduct our activities taking into consideration the safe and efficient use of energy and materials, the sustainable use of renewable resources, the

minimization of adverse environmental impact and waste generation, and the safe and responsible reuse, recycling, or disposal of wastes or by-products.

- g. Promote the adoption of these guiding principles by agents or contractors acting on behalf of the University, encouraging and, where appropriate, requiring improvements in their practices to make them consistent with those of the University, and encourage the wider adoption of these principles by suppliers.
- h. Encourage pollution prevention and waste abatement through institutional changes, such as purchasing policies and specifications.
- i. Require University students, employees, tenants, and others using University property or engaging in University activities to comply with applicable safety, health, and environmental laws, and regulations.
- j. Contribute to the development of public policy and to business, governmental programs, and educational initiatives that enhance environmental awareness and protection.

43.3 Commitments

- a. Compliance with regulations and requirements. The University is committed to comply with applicable safety, health, and environmental laws and regulations that govern our work. More specifically:
 - 1. Any discharges into the University-operated storm sewer system that are not comprised solely of storm water, properly permitted storm water discharges associated with industrial activity, or allowable non-storm water are prohibited. Contractors that violate this prohibition are subject to being debarred from future contracts with the University.
 - 2. University employees who knowingly or negligently violate this prohibition are subject to progressive discipline up to and including dismissal under the University employee disciplinary procedures.
- b. Accident prevention. The University is committed to:
 - 1. Working to prevent or mitigate human or economic losses arising from accidents and adverse occupational exposures;
 - 2. Encouraging employees to take an active role in their own safety and health and the safety and health of those around them;

3. Fostering openness and dialogue between employees, supervisors, administrators, and other members of the University community as a whole to facilitate a cooperative effort in the prevention of workplace injuries; and encouraging employees to timely report incidents and accidents.
- c. Pollution prevention. The University is committed to:
 1. Identifying and implementing the best pollution prevention opportunities;
 2. Reducing waste and the consumption of resources (materials, fuel, and energy);
 3. Pursuing opportunities for reuse, recovery, and recycling, as opposed to disposal; and
 4. Minimizing significant adverse environmental impacts in its operations, through the use of integrated environmental management procedures and planning, and through encouragement and involvement of the University community.
- d. Continual improvement. The University is committed to continue to improve its policies, programs, and environmental and safety performance, taking into account regulatory changes, technical developments and scientific understanding, the University's needs, and community expectations.

APPENDIX U

Tunnel Security Requirements

The Concessionaire shall take all reasonable efforts to restrict access to the Tunnels by applying locks at all entrances. Electronic access control, where appropriate, as well as keying of physical locks shall be coordinated with the University's Department of Public Safety, and for hospital locations, Engineering Services of the University of Iowa Hospitals and Clinics.

The Concessionaire shall repair or replace any damaged locks within 5 Business Days after becoming aware of the damage.

APPENDIX V

Reserved

APPENDIX W

Policies and Procedures for use of University's IP Network

The University's then existing IP Network Policies and Procedures, as may be updated from time to time, and is available at <https://itsecurity.uiowa.edu/university-it-policy> or such other location as the University provides written notice thereof

APPENDIX X

Communication Systems and Information Technology Protocol

The University's then existing Communication Systems and Information Technology Protocol, as may be updated from time to time, and is available at <https://opsmanual.uiowa.edu/community-policies/acceptable-use-information-technology-resources> or such other location as the University provides written notice thereof.

The text of such protocol as of the Bid Date is:

Chapter 19 – Acceptable Use of Information Technology Resources

(Enacted 6/95; amended 4/99; 8/02; 9/13; 7/1/17)

19.1 Preamble

The University of Iowa's information technology resources are critical to the University's missions of teaching, research, and service. To ensure a highly robust, continuously available, fair, and effective environment that serves the University's computing needs, institutional and external standards for acceptable use must be applied. Each individual user must therefore comply with institutional and external standards for acceptable use of these shared resources. Although limited personal use of University-supplied technology resources may develop the skills of individual users and otherwise contribute indirectly to the University's mission, these resources should be used primarily for University-related research, educational, and administrative purposes. By using University information technology facilities and resources, users agree to abide by all related University policies and procedures, as well as applicable federal, state, and local law. Violations may result in University disciplinary action or referral to appropriate external authorities.

The use of University information technology resources — like the use of any other University-provided resource and like any other University-related activity — is subject to the normal requirements of legal and ethical behavior within the University community. Thus, legitimate use of a computer, computer system, or communication network does not extend to whatever is technically possible. Although some limitations are built into computer operating systems and networks, those limitations are not the sole restrictions on what is permissible. Users must abide by all applicable restrictions, whether or not those restrictions are built into the operating system or network and whether or not they can be circumvented in any way.

19.2 Scope of Policy

This acceptable use policy applies to all uses of University information technology (IT) resources. This includes the resources under the management or control of Information Technology Services ([ITS](#)) or other units of The University of Iowa, such as UI Health Care Information Systems ([HCIS](#)). A "user" is defined as any individual who uses, logs into, or attempts to use or log into, a system; or who connects to, or attempts to connect to or traverse, a

network, whether by hardware or software or both, whether on campus or from remote locations. The term "user" thus includes system sponsors and system managers, faculty, staff, students, visitors, and other customers. "Information technology resources" are those facilities, technologies, and information resources required to accomplish information processing, storage, and communication, whether individually controlled or shared, stand-alone or networked. Included in this definition are all Instructional Technology Centers (ITCs), classroom technologies, electronic resources, and computing and electronic communication devices and services, such as, but not limited to, computers, printers, storage devices, mobile devices, email, fax, video, multi-media, instructional materials, and healthcare, research, and administrative systems. Personal equipment connected to the University network is also subject to this policy.

19.3 Security and Privacy

The same principles of academic freedom and privacy that have long been applicable to written and spoken communications in the University community apply also to electronic information. The University cherishes the diversity of perspectives represented on this campus and, accordingly, does not condone either censorship or the unauthorized inspection of electronic files.

The University employs various measures to protect the security of information technology resources and individual user accounts. Users should be aware, however, that the University cannot guarantee absolute security. Users should therefore engage in "safe computing" practices by safeguarding their accounts, and regularly changing and never sharing their passwords. Backup and recovery systems must be implemented in accordance with University disaster recovery guidelines, and all institutional systems must utilize security controls in accordance with best practices and University policies and procedures. The University respects encryption rights on its networks and may itself encrypt information and transactions when secure confidentiality is an obligation.

Users should also be aware that their uses of University information technology resources are not completely private as the information contained will be subject to the University's obligation to respond to subpoenas or other court orders, reasonable discovery requests, and public requests for documents pursuant to *Iowa Code Chapter 22*, the Public (Open) Records Law. All University records are subject to public record requests, unless an expressed exception in the law recognizes the confidentiality of the material, such as the exceptions provided for student, medical, or library records. By statute, public records include all "records, documents, tape or other information, stored or preserved in any medium," generated by University faculty or staff.

The Public Records statute contains no general exception for documents generated by faculty or staff in the course of their employment. As a result, the University recommends that faculty and staff refrain from keeping personal information on University systems, and utilize a personal email account for their personal communications. Additionally, users should be aware that University records that are otherwise subject to open records requests do not become confidential if they are created or stored on personally owned devices or in personal accounts. Disputes over the applicability of any confidentiality exceptions may ultimately be decided by a court of law,

not by the University. While the University does not routinely monitor individual usage of its information technology resources, the normal operation and maintenance of the University's information technology resources require the backup of data and communication records, the logging of activity, the monitoring of general usage patterns, and other such activities that are necessary for the rendition of service. The University may also inspect account contents and electronic files, or monitor usage for a limited time when, and only when, there is probable cause to believe a user has violated this or other University policies. Inspections or monitoring related to violations of policy or law must be authorized in advance by the University Chief Information Officer (CIO) or a designee, or, within the UI Hospitals & Clinics, the CIO of Health Care Information Systems or a designee, in consultation with University counsel and other appropriate University officials. These investigations will be conducted with advance notice to the user, unless, after consultation with University counsel, it is determined that notice would seriously jeopardize substantial interests of the University or of third parties. In addition, a supervisor or principal investigator may request access to retrieve assigned work without notice to the employee if the employee is unavailable for timely response.

19.4 Individual Responsibilities

- a. Use resources appropriately. Uses that interfere with the proper functioning of the University's information technology resources are prohibited. Such inappropriate uses would include but are not limited to insertions of viruses into computer systems, tapping a network or running a "sniffer" program, sending e-mail spam or phishing attacks, destruction of another's files, use of software tools that attack IT resources, violation of security standards, and the like.
- b. Respect the rights of others. Interference with the ability of other users to make appropriate use of resources is prohibited. Such inappropriate uses include, without limitation, invading the privacy of another's files or otherwise gaining unauthorized access to the files of another. Such uses would include but are not limited to denial of service attacks, misrepresentation, forgery, password compromise, or the use of resources that affects the rights of others in violation of University policies.
- c. Adhere to the EDUCAUSE Code of Software and Intellectual Rights. The [EDUCAUSE Code](#) follows: Respect for intellectual labor and creativity is vital to academic discourse and enterprise. This principle applies to works of all authors and publishers in all media. It encompasses respect for the right to acknowledgment, right to privacy, and right to determine the form, manner, and terms of publication and distribution.

Because electronic information is volatile and easily reproduced, respect for the work and personal expression of others is especially critical in computer environments. Violations of authorial integrity, including plagiarism, invasion of privacy, unauthorized access, and trade-secret and copyright violations, may be grounds for sanctions against members of the academic community.

- d. Adhere to data access policies. Accessing restricted data without permission or need to know is prohibited. Where access to restricted data is permitted, use of such data shall be limited to the purpose for which access was authorized. Secondary use of University data subject to access restriction, without adhering to the restrictions, is also prohibited. Information that carries specific access restrictions, as defined by state or federal law, statute, or other requirements, will be held confidential as needed to comply with such restrictions. Examples include but are not limited to access restrictions for personal health, education, and financial records as defined by the [Health Insurance Portability and Accountability Act](#) (HIPAA), [Federal Education Rights and Privacy Act](#) (FERPA), federal regulations on the use of human subjects in research, the [Gramm-Leach Bliley Act](#) (GLBA), and Payment Card Industry Data Security Standards (PCIDSS).
- e. Adhere to software licenses. Persons loading software on any University computer or device must adhere to all licensing requirements for the software. Except where allowed by University site licenses, unauthorized copying of software licensed to the University is a violation of this policy. Users are responsible for adhering to agreements for databases licensed by the University. Individual departments are charged with the responsibility of ensuring that licensing requirements are met and for guiding the installation of personal software on departmental computers or devices.
- f. Avoid excessive personal use. Personal use of information technology resources should be kept to a minimum. Personal use may be excessive if it takes place during regularly scheduled work time, if it adversely affects productivity, if it overburdens a network, if it results in substantial use of system capacity, if it subjects the institution to increased operating costs, or if it is otherwise detrimental to the University or members of the University community. Some uses will be plainly excessive in all environments, but the extent to which other uses become excessive may vary. In all instances, supervisors should provide guidance to individual users on what constitutes excessive personal use.
- g. Refrain from prohibited personal uses. Information technology resources, including the University's electronic address (e-mail, web), shall not be used for personal commercial gain, for charitable solicitations unless these are authorized by the appropriate University officer, for personal political activities such as campaigning for candidates for public office, or for lobbying of public officials. (For more information on lobbying, please refer to [II-32](#) Office of Governmental Relations and [II-34](#) Lobbying Restrictions Applicable to Public Employees and Officials. Students should refer to the [Code of Student Life](#).)
- h. Use University name as authorized. Unless authorized to speak for the University, users should avoid creating the impression they are doing so. Electronic exchange of ideas is encouraged. However, users shall take appropriate steps to avoid the possible inference that communication of a message via the University e-mail system or other electronic communication connotes official University authorization or endorsement of the message (see [II-33](#) Use of University Name).

- i. Adhere to other University policies. Inappropriate use of information technology resources may violate a number of generally applicable University policies, including, without limitation, [III-15](#) Professional Ethics and Academic Responsibility, [III-16](#) Ethics and Responsibilities for University of Iowa Staff, [V-31](#) Intellectual Property, [II-3](#) Human Rights, [II-4](#) Sexual Harassment, [II-10](#) Violence, [II-11](#) Anti-Retaliation, [II-14](#) Anti-Harassment, [V-9](#) Fund Solicitation, and Section IIA of [Policies and Regulations Affecting Students](#). For example, viewing pornography at work violates several University policies and is therefore prohibited unless being used for a specific academic purpose. In addition, all IT policies under the oversight of the University Chief Information Officer, and published at the location Campus IT Policies are hereby included.
- j. Obey external laws. Information technology resources shall not be used in a manner that violates federal, state, or local law, including without limitation the federal requirement that the University provide employment and educational environments free from race-based or gender-based hostility (see Titles [VI](#) and [VII](#), Civil Rights Act of 1964, and [Title IX](#), Educational Amendments of 1972); and state criminal laws forbidding harassment ([IC 708.7](#)), exhibition of obscene materials to minors ([IC 728.2](#)), rental or sale of hard core pornography ([IC 728.4](#)), official misconduct ([IC 721](#)), computer crime ([IC 716A](#)), and federal and state copyright and fair use laws. University resources used internationally may also be subject to additional laws, regulations, or treaties. Nothing in this policy prohibits the use of appropriate material for educational purposes in any accredited school, or any public library, or in any educational program in which a minor is participating. Nothing in this policy prohibits the presence of minors at an exhibition or display or the use of any materials in any public library.

19.5 Administration and Enforcement

(Amended 7/1/17)

Information Technology Services is charged with communicating this policy to the user community through partnering with major campus Information Technology providers and for providing educational programs to achieve technical proficiency and appropriate use of the resources. Requests for interpretation of the policy as applied to particular situations may be directed to the appropriate University administrator, such as the Offices of the Executive Vice President and Provost, Dean of Students, Chief Human Resources Officer, Chief Diversity Officer, Chief Information Officer, Health Care Information Systems, Information Technology Services, or to the Office of the General Counsel.

Members of the University community are strongly encouraged to report violations of this policy to any one of the following: Information Technology Services' [Information Security and Policy Office](#), UI [Health Care Information Systems](#), to an employee's supervisor, or, in the case of a student, to the Office of the [Dean of Students](#). Anonymous reports of misuse of University resources may also be made through the use of the [EthicsPoint website](#) or hotline. Where violations of law are alleged, University [Public Safety](#) and/or the [Office of General](#)

[Counsel](#) should be contacted. Good faith disclosures of University-related misconduct are protected by the Anti-Retaliation Policy (see [II-11](#)).

Violations of criminal law may result in criminal prosecution. Violations of University policy may result in informal or formal sanctions including, but not limited to, loss of user privileges for a definite or indefinite period, discipline up to and including termination of employment, or, in the case of a student, probation, suspension, or expulsion from the University.

Formal sanctions taken in response to violations of this policy by:

- a. faculty members will be governed by the general Faculty Dispute Procedures (see [III-29](#)) and that portion of those procedures dealing with faculty ethics ([III-29.7](#));
- b. staff members will be governed by applicable Regent Merit System Rules and University policies, including, [III-16](#) Ethics and Responsibility Statement for Staff, and the applicable grievance procedures, including [III-28](#) Conflict Management Resources for University Staff;
- c. graduate assistants, when dismissal is sought, will be governed by the procedure for dismissal of graduate assistants ([III-12.4](#)). When disciplinary action other than dismissal is taken by the dean of the employing college, a graduate assistant may appeal through those procedures established for graduate assistant employees;
- d. students will be governed by the [Student Judicial Procedure](#).

19.6 Disclaimer

The University makes no warranties of any kind, whether expressed or implied, with respect to the information technology services it provides. The University will not be responsible for damages resulting from the use of information technology facilities and services, including, but not limited to, loss of data resulting from delays, non-deliveries, missed deliveries, service interruptions caused by the negligence of a University employee, or by the user's error or omissions. Use of any information obtained via the Internet is at the user's risk. The University specifically denies any responsibility for the accuracy or quality of information obtained through its information technology facilities and services, except material represented as an official University record. The University also does not accept responsibility for removing material that some users may consider defamatory or otherwise offensive. Users should be advised, however, that dissemination of such material may subject them to liability in other forums.

19.7 Other Policies and Rules

Individual units within the University may define by written policies conditions of use for information technology resources under their control. Policy statements must be consistent in principle with this and all other University policy, but may provide additional detail, guidelines or restrictions. Such unit or departmental policies should be submitted to the Executive Vice President and Provost (for faculty), Human Resources or Vice Presidents of the University (for staff), the University Chief Information Officer, or to the Hospital Advisory Committee (for UIHC) to review for consistency with University policy. In addition, users are advised that

network traffic exiting the University is subject to the acceptable use policies of our national and international network connectivity and long distance providers.

SCHEDULE 3

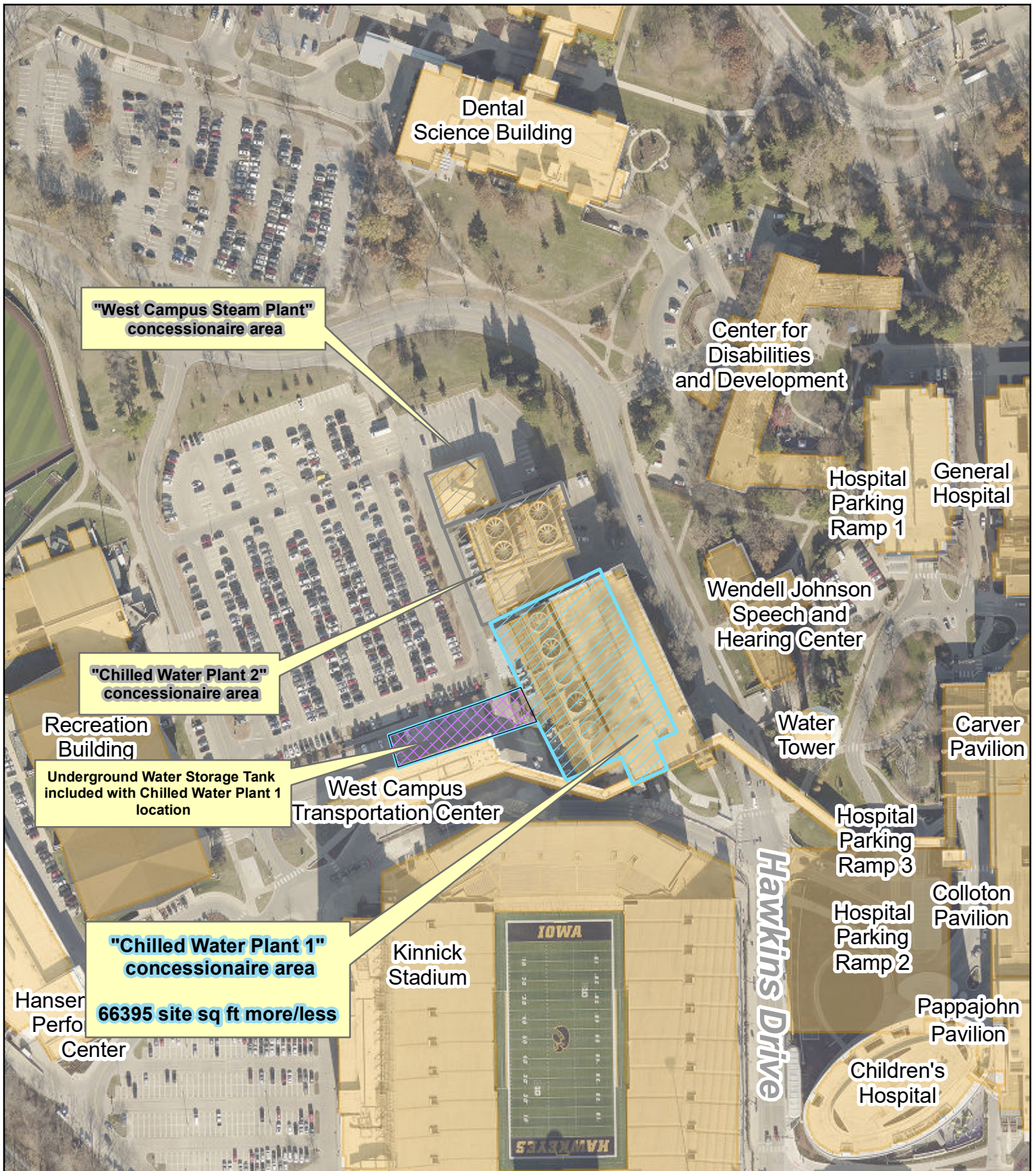
UTILITY FACILITIES, UTILITY SYSTEM LAND AND UTILITY SYSTEM ASSETS

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Part 3	Hospital Plant
Part 4	Hospital Water Tower
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Part 8	Main Campus Power Plant
Part 9	Main Campus Water Treatment Plant
Part 10	Newton Road Chilled Water Plant
Part 11	North Campus Chilled Water Plant
Part 12	Oakdale 69kV Substation
Part 13	Oakdale Chilled Water Plant
Part 14	Oakdale Hygienics Lab Chiller Space
Part 15	Oakdale Power Plant Substation
Part 16	Oakdale Utility Power Plant
Part 17	Oakdale Water Tower
Part 18	Oakdale Well House
Part 19	Sand Road Space
Part 20	Substation L
Part 21	Substation U
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Part 1: Chilled Water Plant 1

The area comprising the Chilled Water Plant 1 is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



Wednesday, October 09, 2019

Document Name: 20191009_Concession_Property_Chilled_Water_1



1" = 200'

Location Map:
Chilled Water Plant 1
255 Hawkins Drive

Total Area = 66395 site Sq Ft
or 1.52 acre more/less

	Description
●	Chilled Water Plant 1

The University of Iowa
CHILLED WATER PLANT 1
BASEMENT LEVEL

Bldg. No. 0314 08/24/2017 File: 314AR08



SCALE:

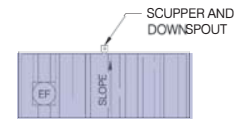


The University of Iowa
CHILLED WATER PLANT 1
COOLING TOWER LEVEL

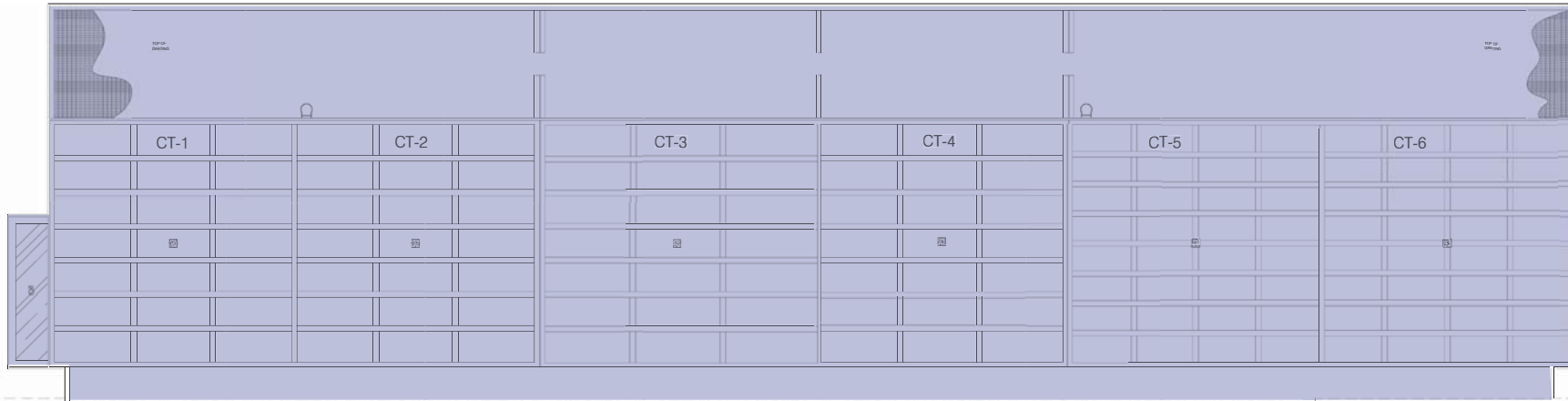
Bldg. No. 0314 08/24/2017 File: 314ARCT



	Description
●	Chilled Water Plant 1



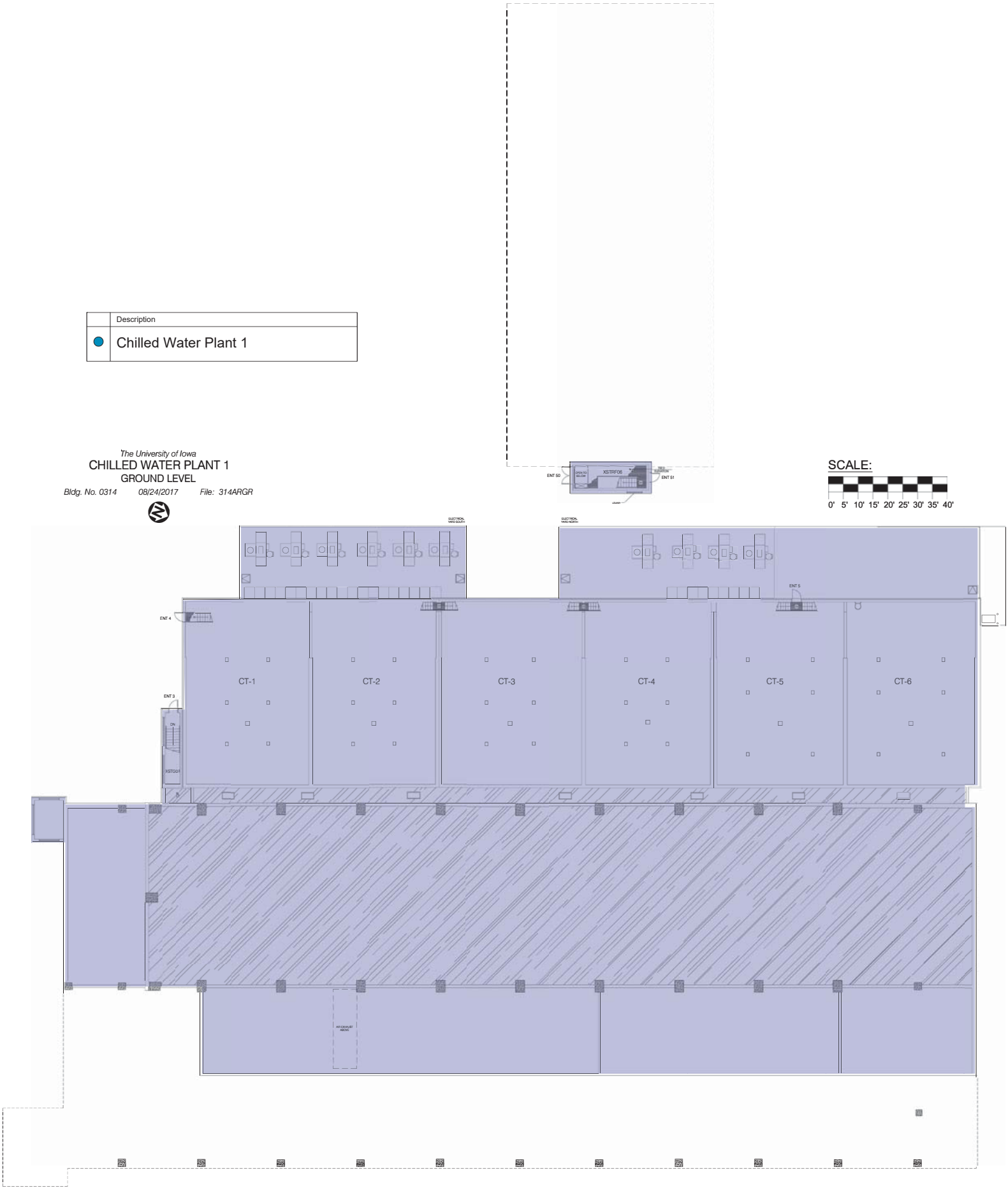
SCALE:



	Description
●	Chilled Water Plant 1

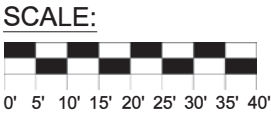
The University of Iowa
CHILLED WATER PLANT 1
GROUND LEVEL

Bldg. No. 0314 08/24/2017 File: 314ARGR

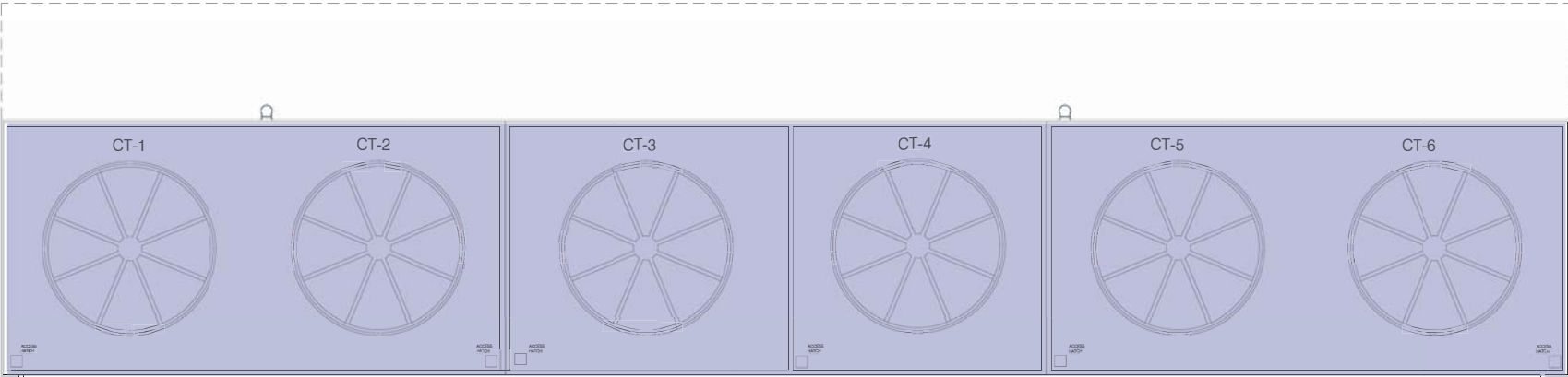


The University of Iowa
CHILLED WATER PLANT 1
ROOF/STACK LEVEL

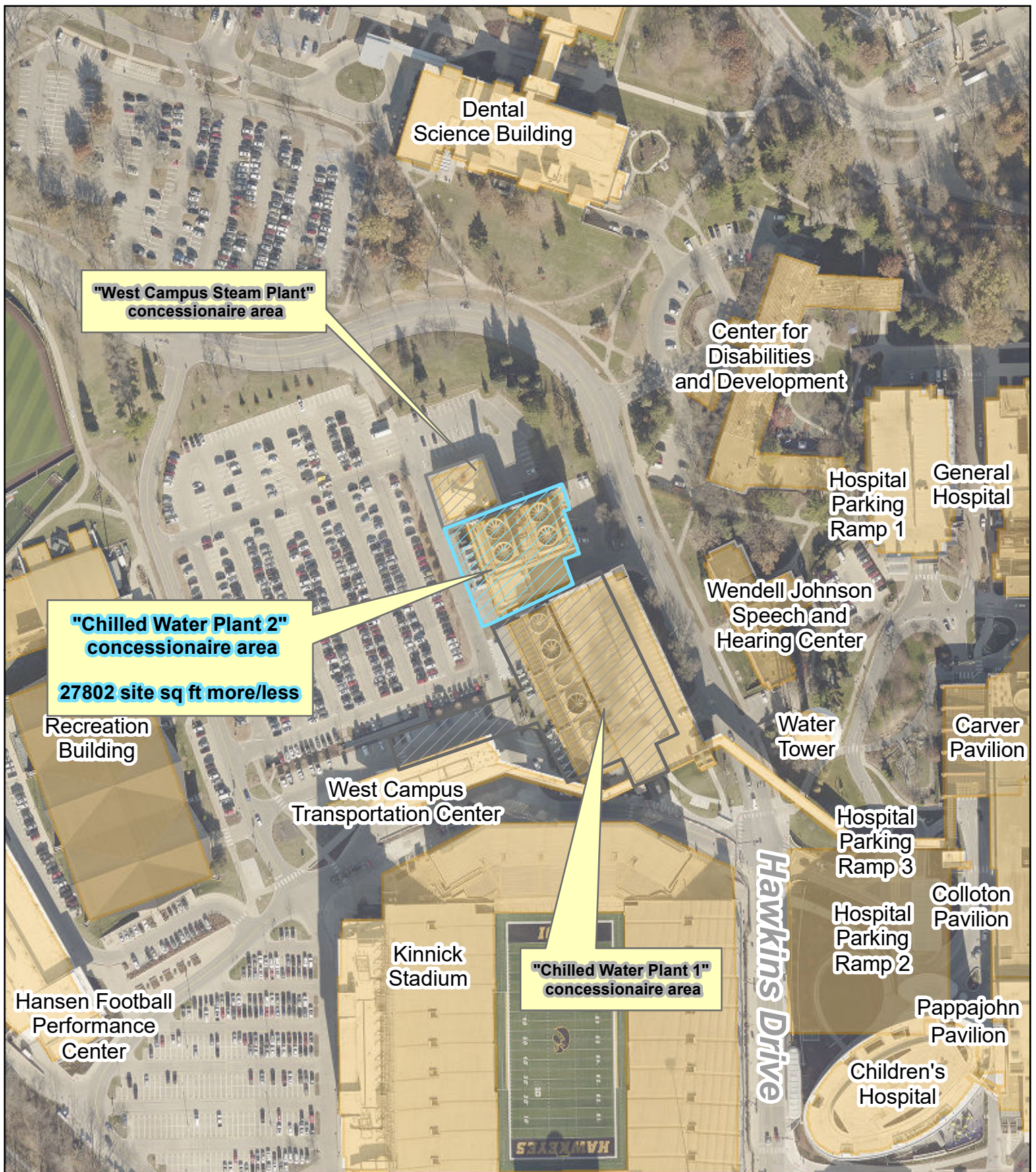
Bldg. No. 0314 08/24/2017 File: 314ARRF



	Description
●	Chilled Water Plant 1



Part 2: Chilled Water Plant 2



**THE UNIVERSITY
OF IOWA**

Monday, October 07, 2019

Document Name: 20191007_Concession_Property_Chilled_Water_2



1" = 200'

**Location Map:
Chilled Water Plant 2
305 Hawkins Drive**

**Total Area = 27802 site Sq Ft
or 0.63 acre more/less**

Part 3: Hospital Plant

The area comprising the Hospital Plant is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



Tuesday, September 24, 2019

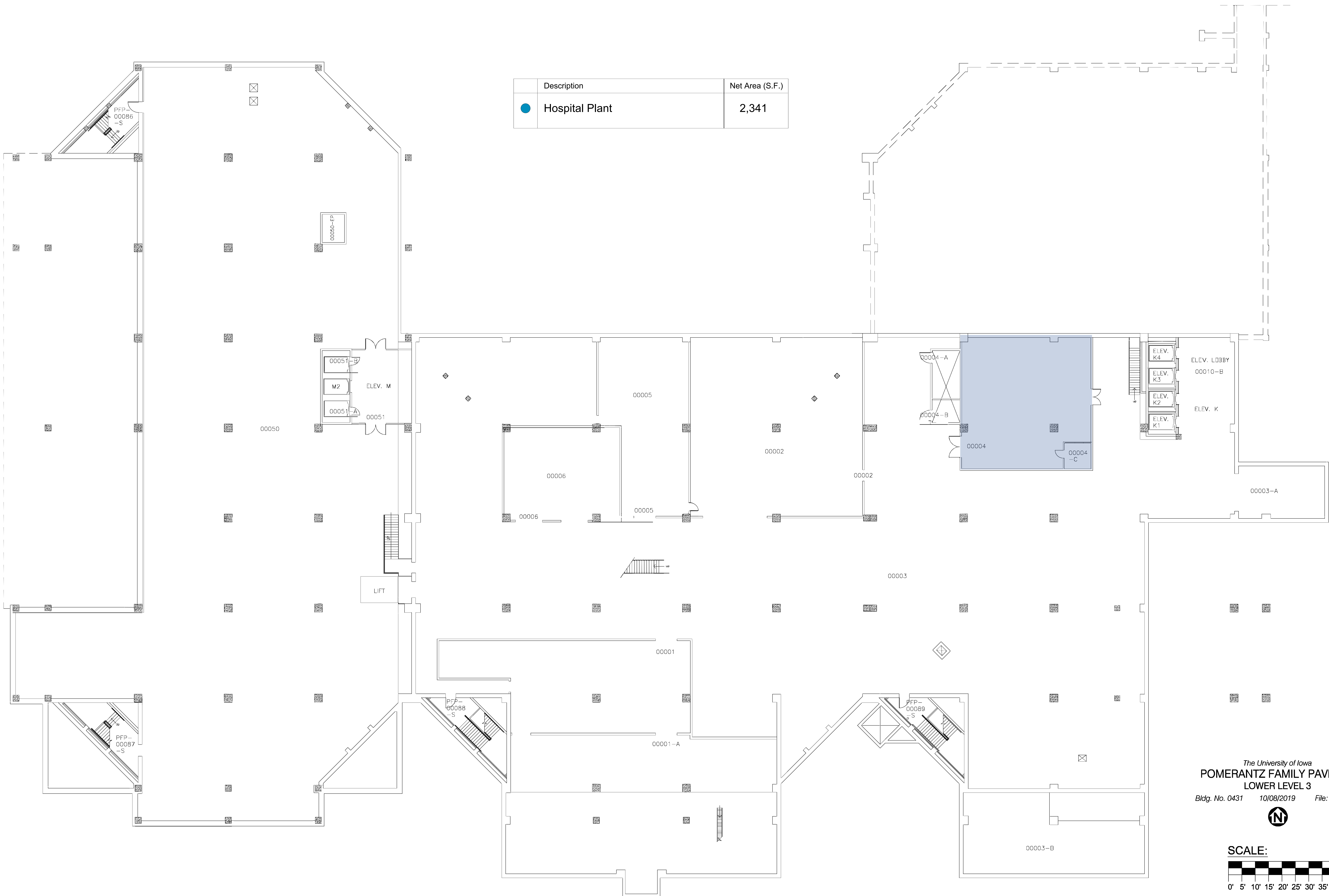
Document Name: 20190924_Concession_Property_Hospital_Plant



1 " = 100 '

Location Map:
Hospital Plant, Lower Level 3
Pomerantz Family Pavillion
720 Melrose Avenue

Area = 2341 Sq Ft

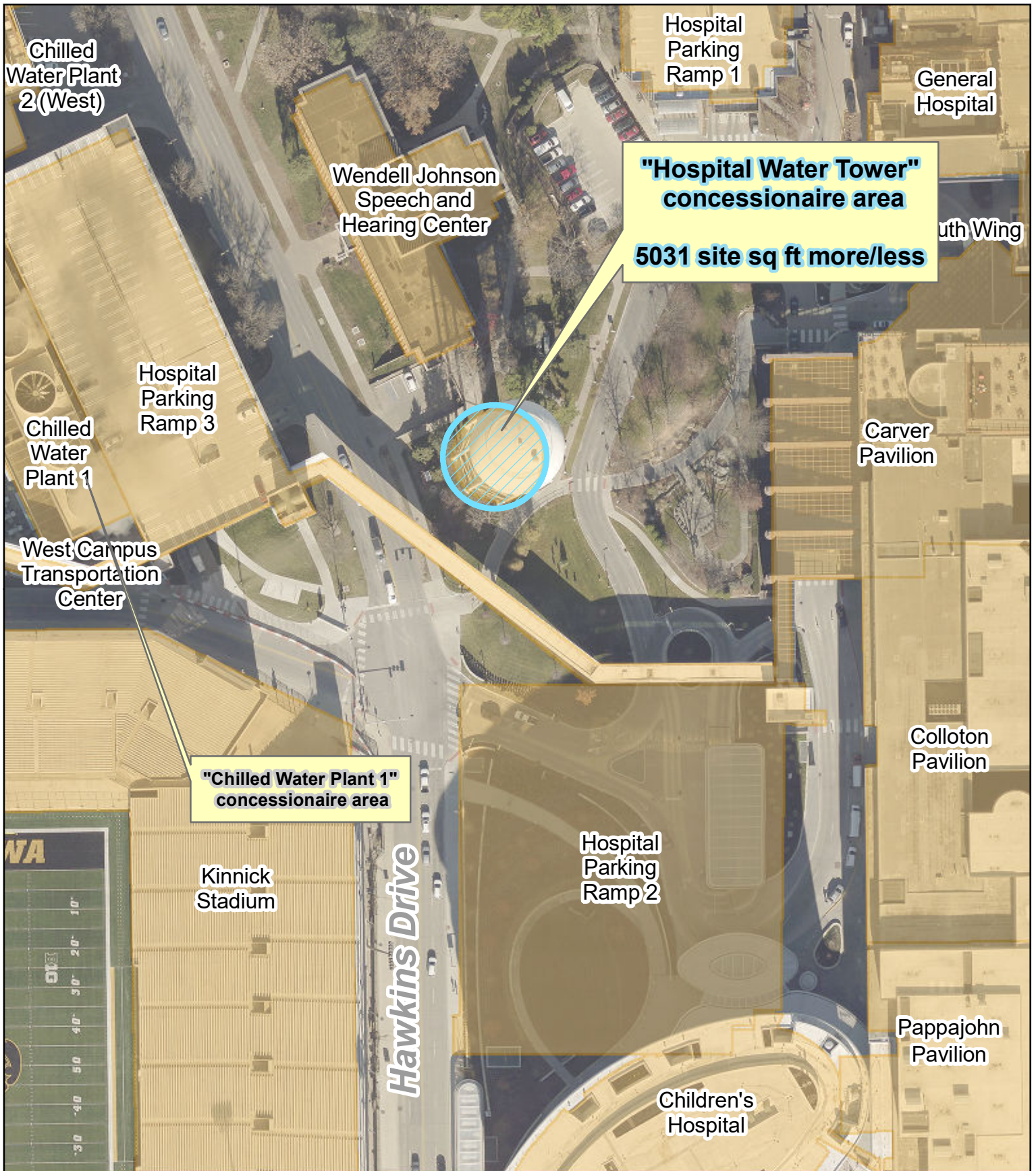


	Description	Net Area (S.F.)
●	Hospital Plant	2,341

The University of Iowa
POMERANTZ FAMILY PAVILION
LOWER LEVEL 3
Bldg. No. 0431 10/08/2019 File: PMARLL3



Part 4: Hospital Water Tower



THE UNIVERSITY
OF IOWA

Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Hospital_Water_Tower



1" = 100'

Location Map:
Hospital Water Tower
Hawkins Drive

Area = 5031 site Sq Ft
or 0.11 acre more/less

Part 5: Independent Road Annex Space

The area comprising the Independent Road Annex Space is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



Tuesday, September 24, 2019

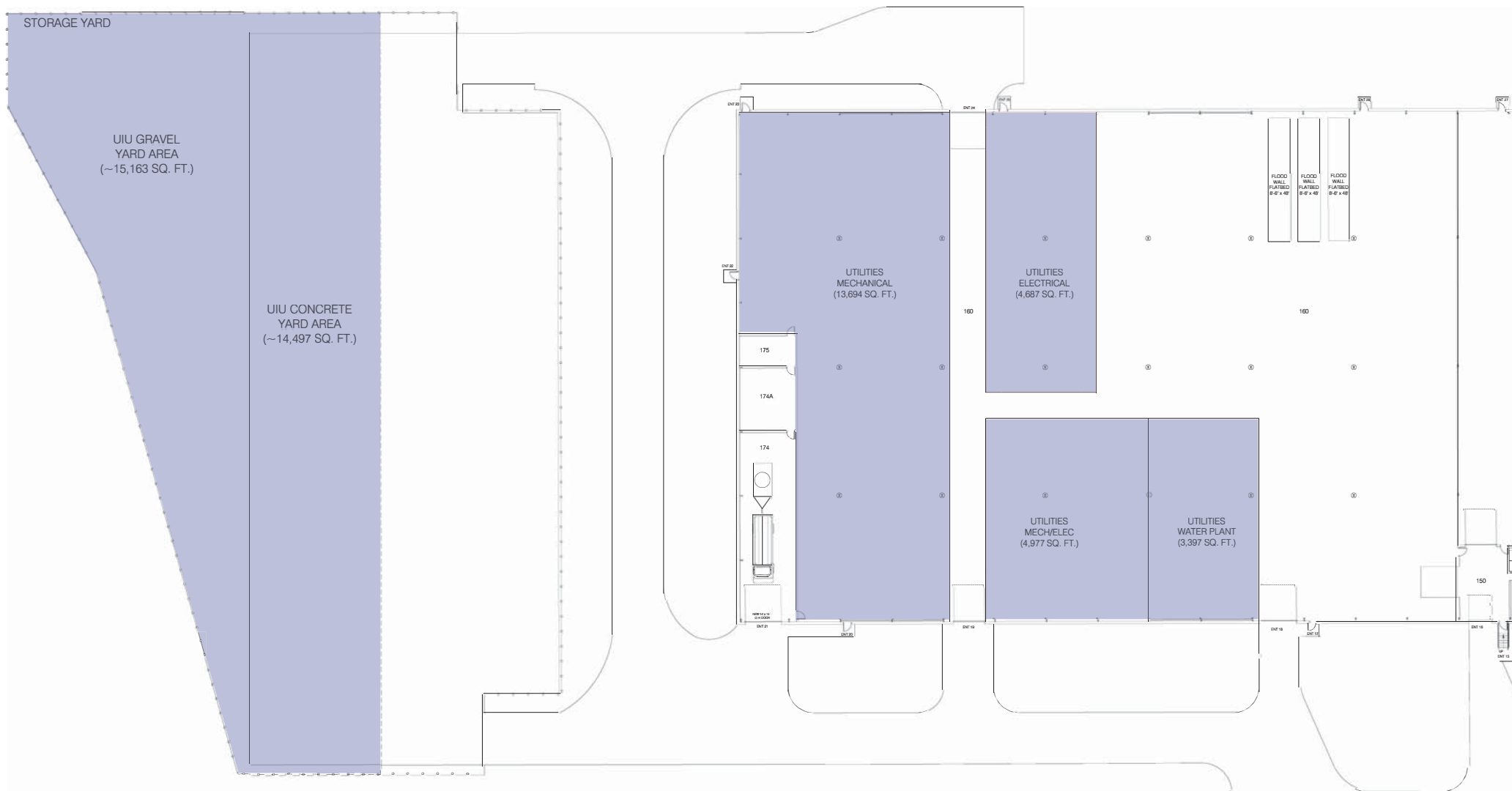
Document Name: 20190924_Concession_Property_Independence_Road



1" = 250'

Location Map:
Independence Road
Annex Space
2515 Independence Road

Area = 92760 Sq Ft
or 2.12 acre more/less



Part 6: Madison Street Services Space

The area comprising the Madison Street Services Space is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.

Campus
Maintenance
Facility

"Madison Street Services Space"
concessionaire area
1st Floor and Mezzanine

21885 site sq ft more/less

Prentiss Street

University
Services
Building

Madison Street
Services
Building

Substation
L Control
Building



Tuesday, September 24, 2019

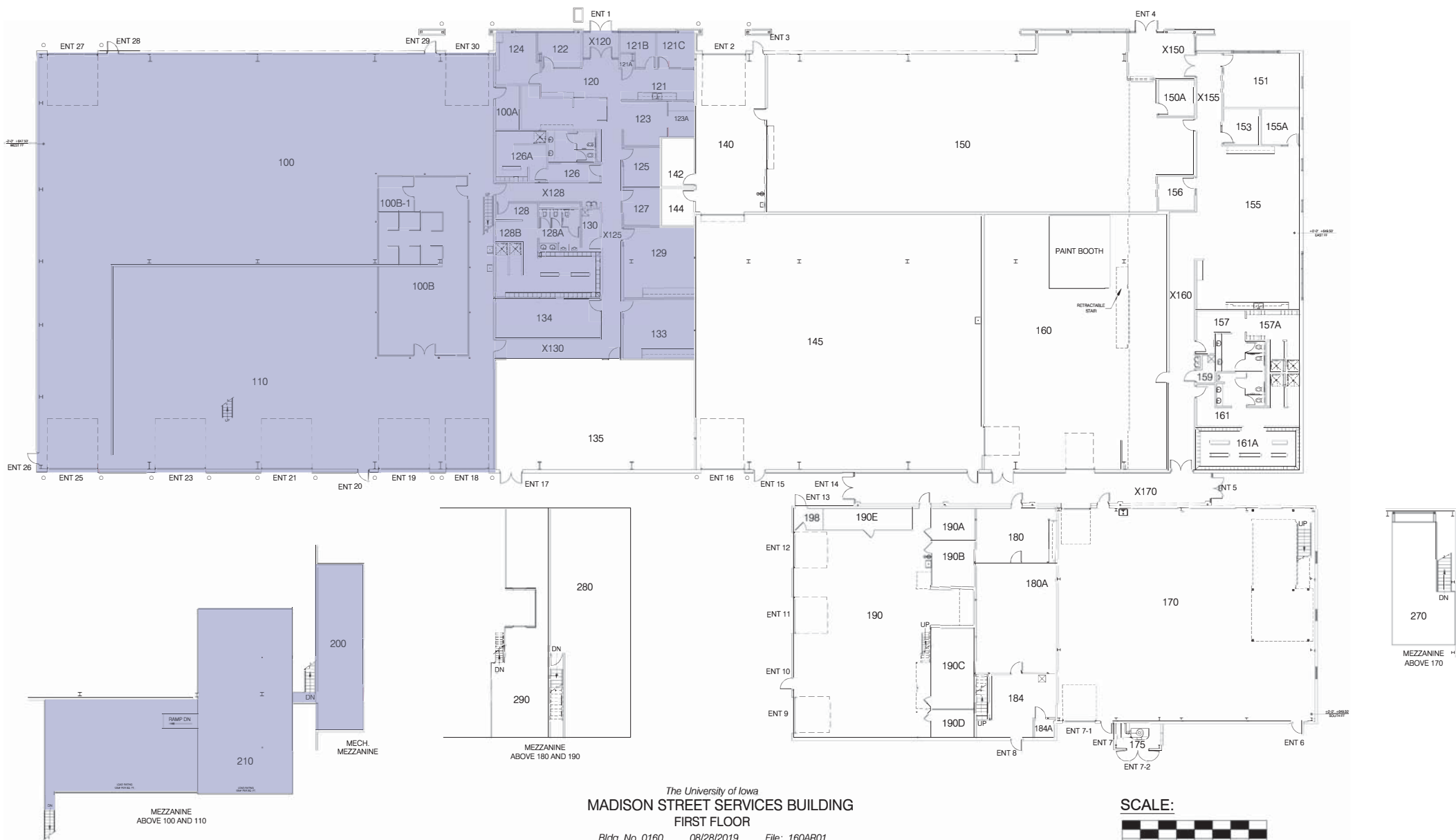
Document Name: 20190924_Concession_Property_Madison_Street_Serv



1" = 100'

Location Map:
Madison Street Services Space
640 S Madison Street

Area = 21885 Sq Ft more/less



The University of Iowa
MADISON STREET SERVICES BUILDING
 FIRST FLOOR

Bldg. No. 0160 08/28/2019 File: 160AR01



SCALE:



	Description	Net Area (S.F.)
●	Madison Street Services Space	21,885

Part 7: Madison Street Water Storage Tank



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Madison_Street_Water_Storage_Tank



1" = 100'

**Location Map:
Madison Street
Water Storage Tank
640 S Madison Street**

**Area = 4314 site Sq Ft
or 0.10 acre more/less**

Part 8: Main Campus Power Plant



Friday, September 27, 2019

Document Name: 20190913_Concession_Property_PowerPlant



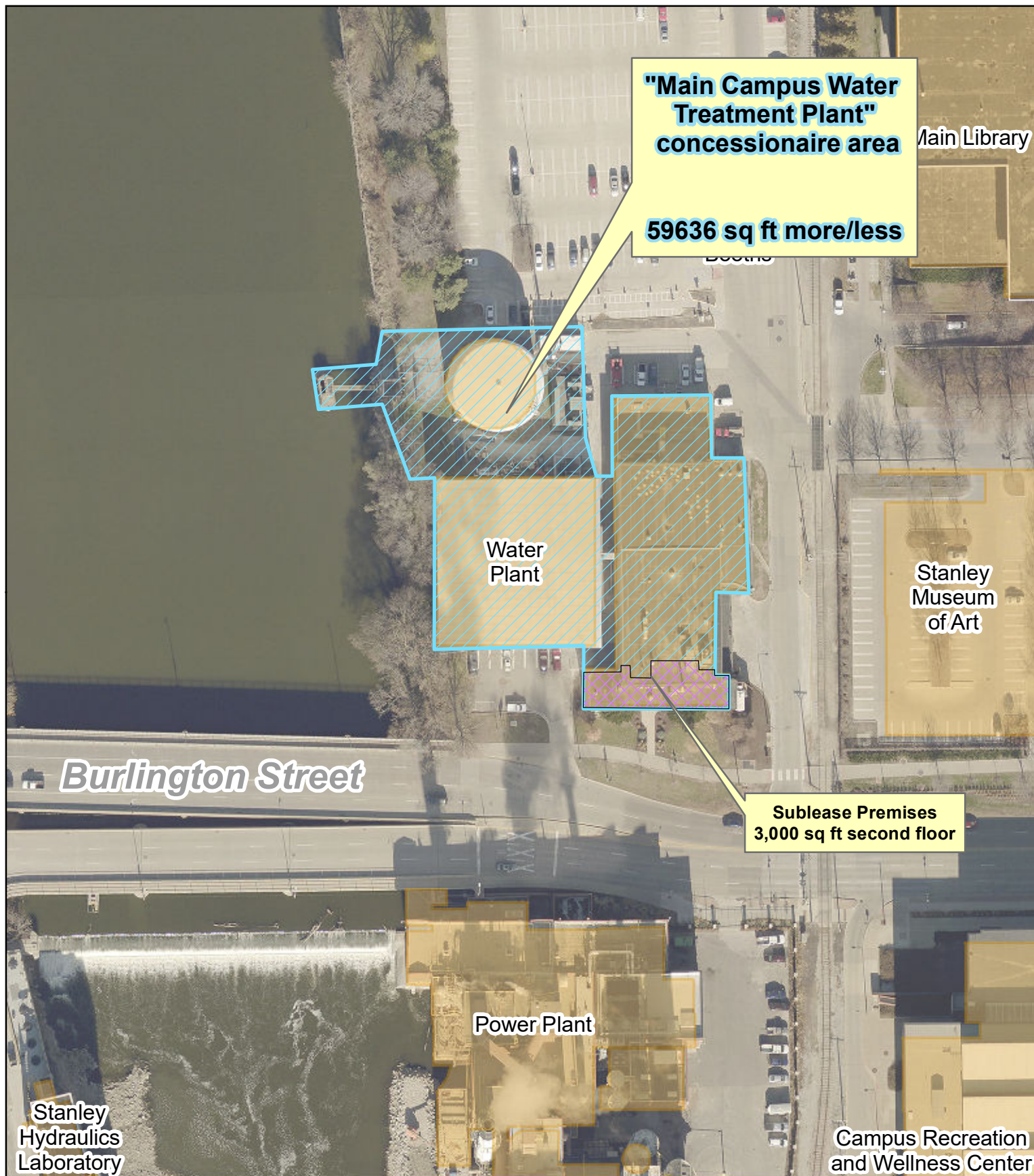
1" = 175'

Location Map:
Main Power Plant
207 West Burlington Street

Area = 153315 Sq Ft
or 3.52 acre more/less

Part 9: Main Campus Water Treatment Plant

The Main Campus Water Treatment Plant, as depicted on the map below, will be leased to the Concessionaire in its entirety and the shaded area of the Main Campus Water Treatment Plant on such map will be subleased to the University pursuant to the Main Campus Water Treatment Plant Sublease.



Monday, October 07, 2019

Document Name: 20191007_Concession_Property_Water_Plant



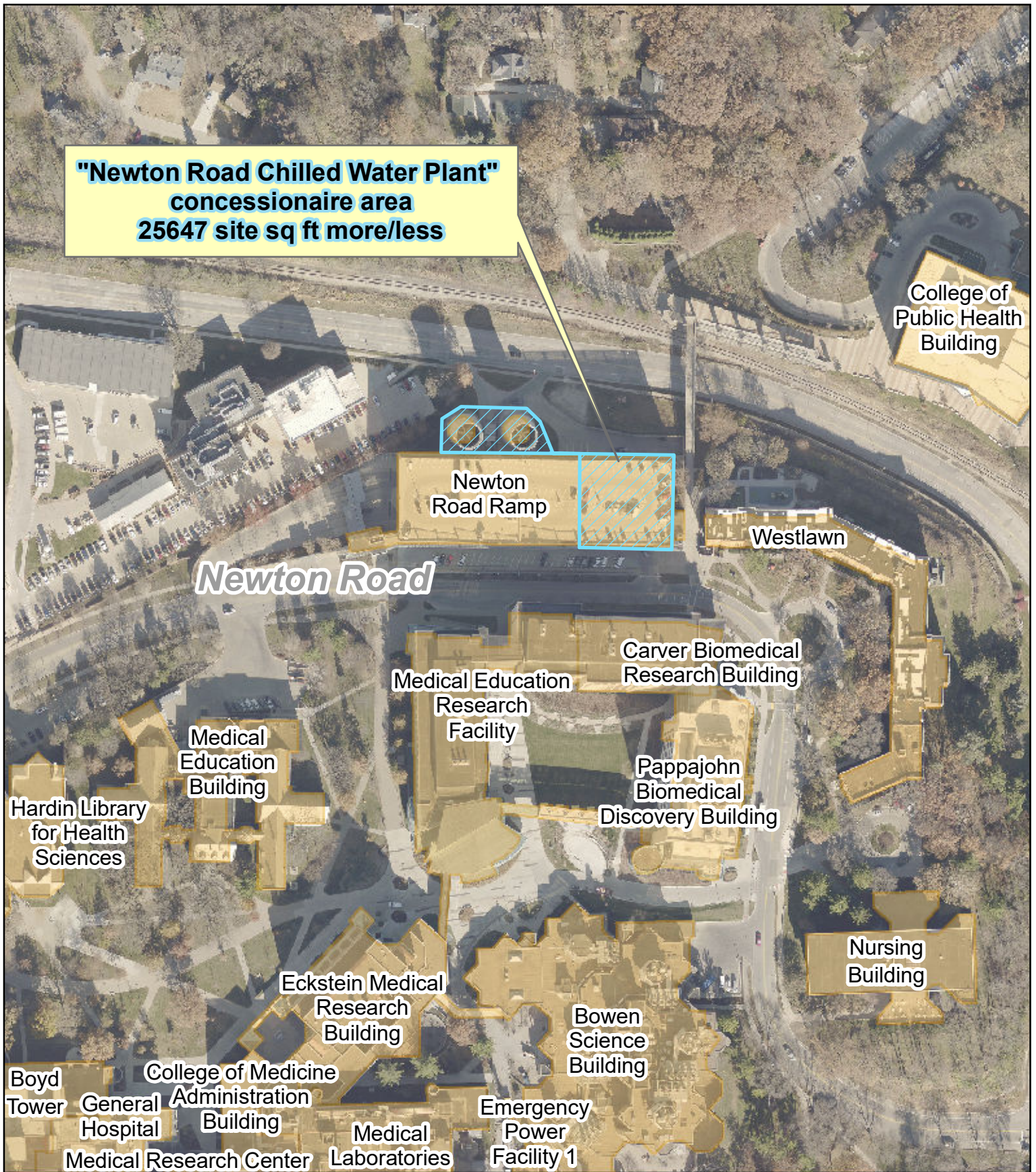
1" = 100'

Location Map:
Main Campus Water Treatment Plant
208 West Burlington Street

Area = 59636 Sq Ft
or 1.37 acre more/less

Part 10 Newton Road Chilled Water Plant

The area comprising the Newton Road Chilled Water Plant is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



THE UNIVERSITY
OF IOWA

Monday, October 07, 2019

Document Name: 20191007_Concession_Property_Newton_Road_Chilled_Water_Plant

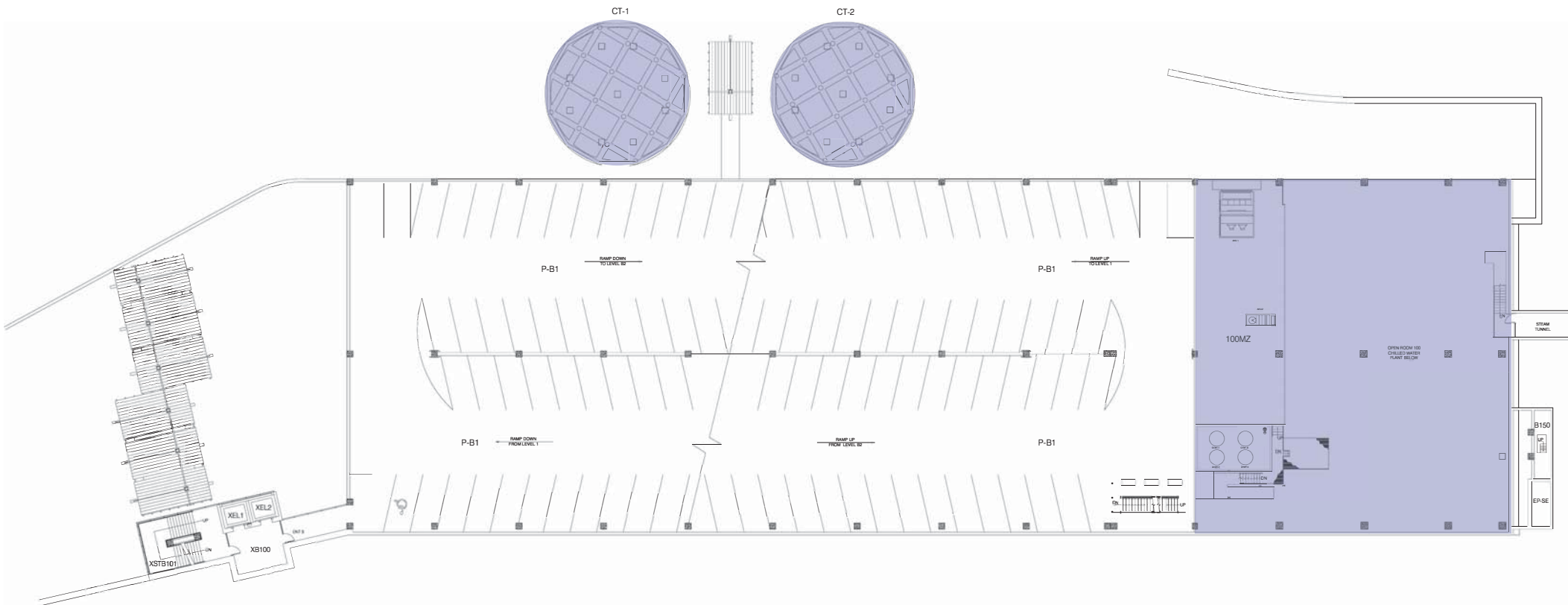


1" = 180'

**Location Map:
Newton Road
Chilled Water Plant
360 Newton Road**

**Area = 25647 site Sq Ft
or 0.58 acre more/less**

Description	
●	Newton Road Chilled Water Plant

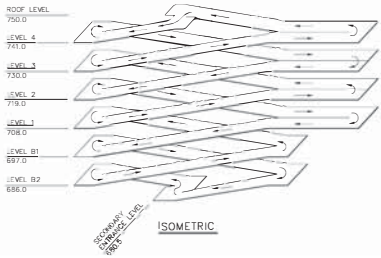
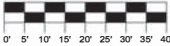


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL B1

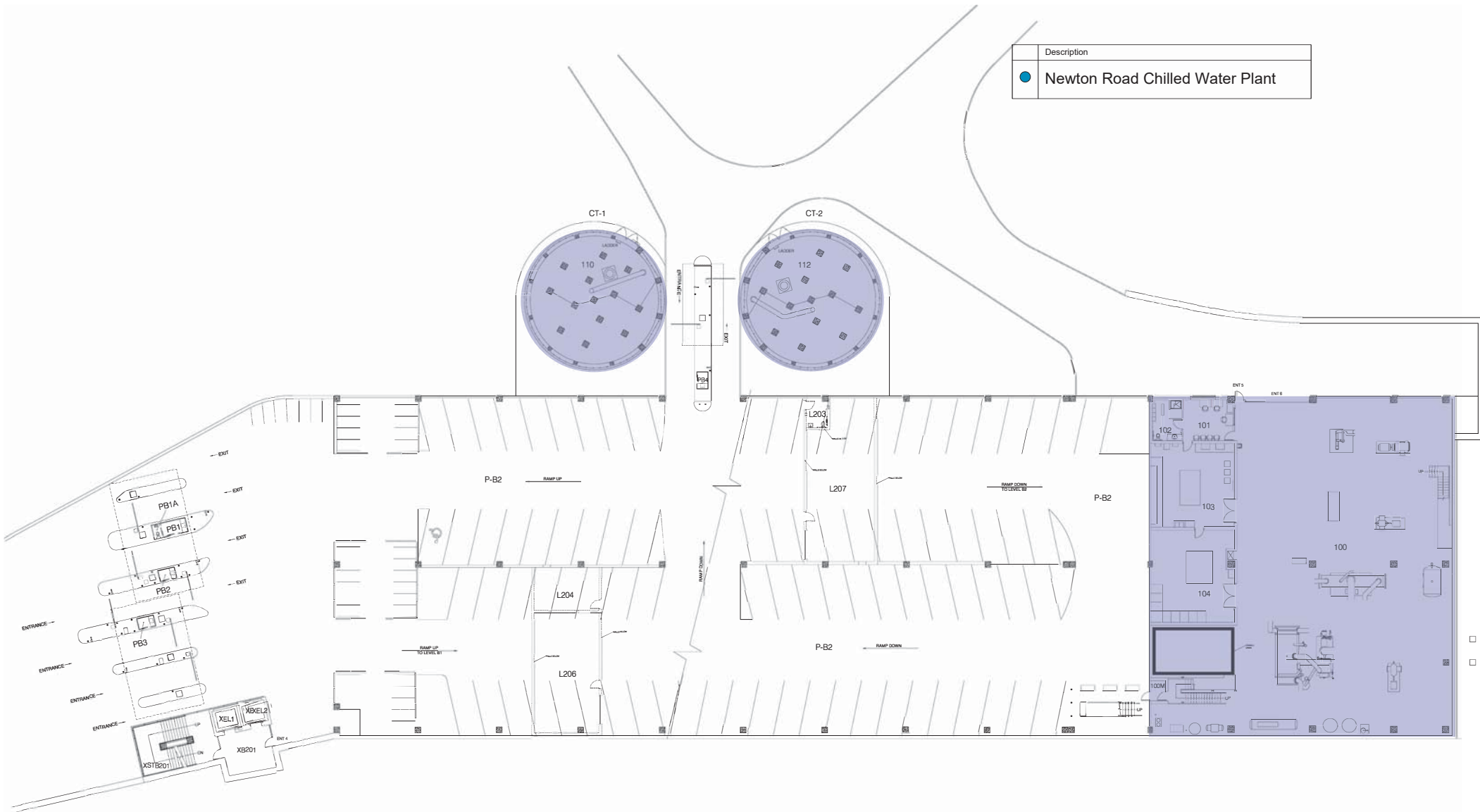
Bldg. No. 0443 05/22/2019 File: 443AR0B



SCALE:



Description	
●	Newton Road Chilled Water Plant

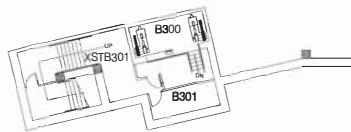
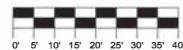


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL B2

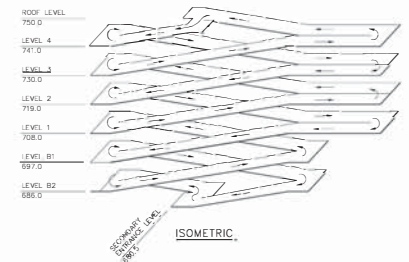
Bldg. No. 0443 05/22/2019 File: 443ARSB



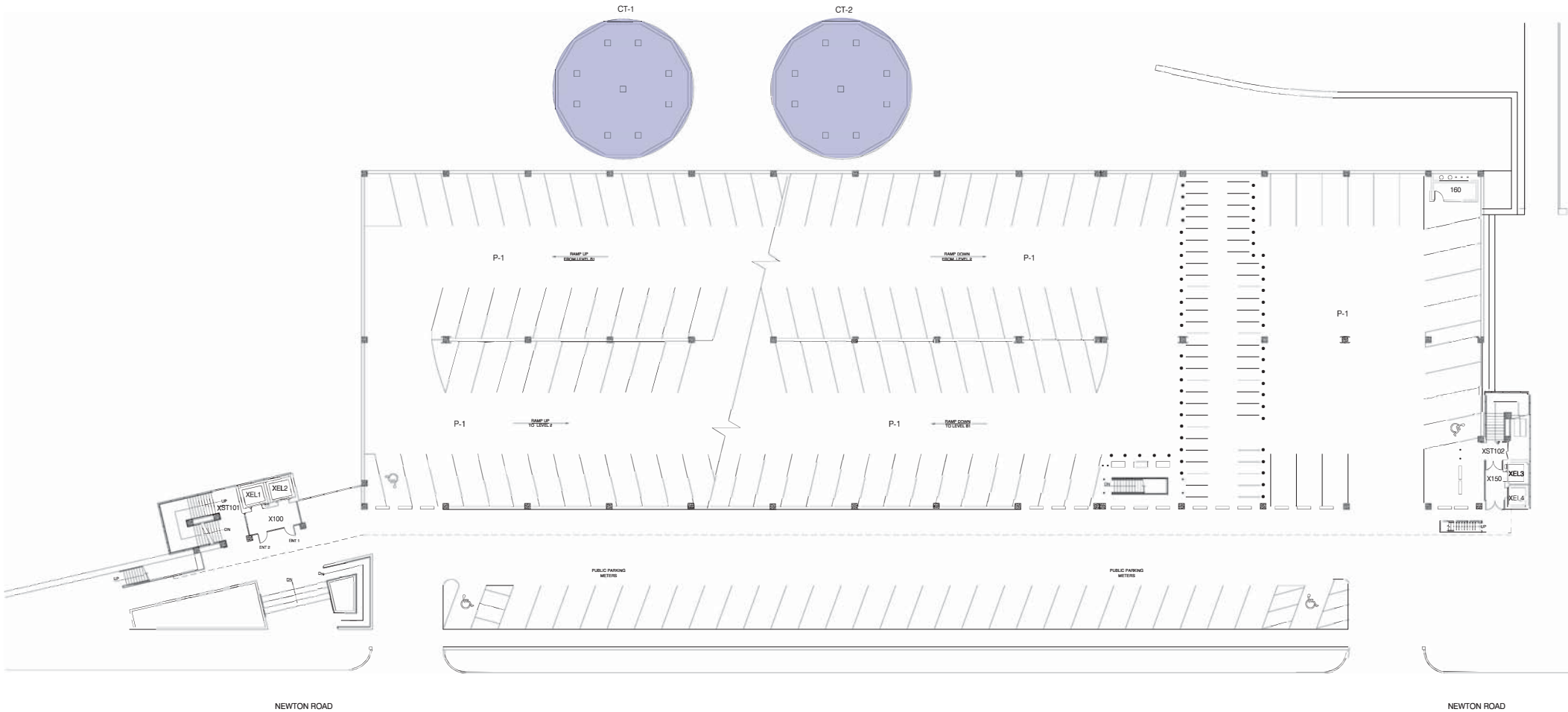
SCALE:



LOWER SUB-BASEMENT
FOR SW ELEVATOR

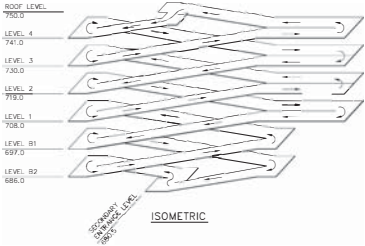
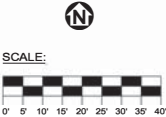


Description	
●	North Campus Chilled Water Plant

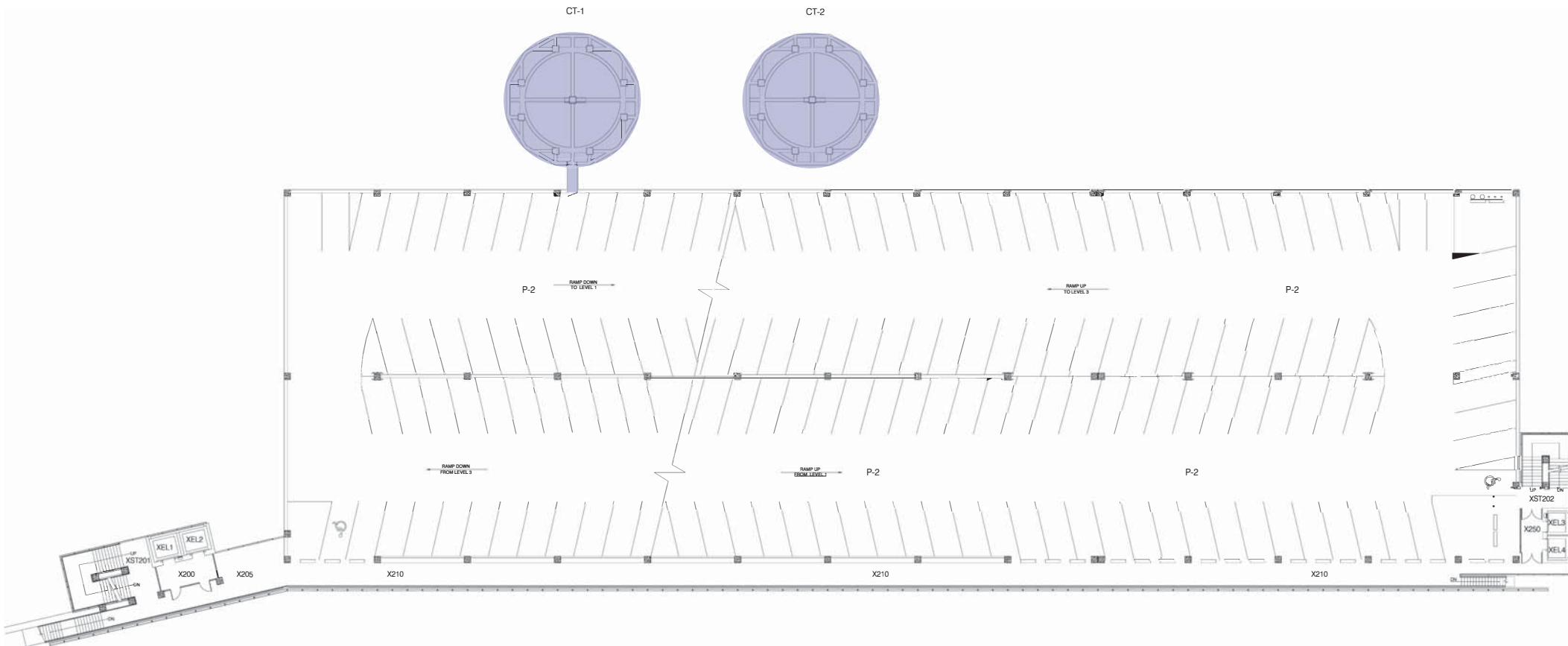


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL 1

Bldg. No. 0443 05/22/2019 File: 443AR01



Description	
	North Campus Chilled Water Plant

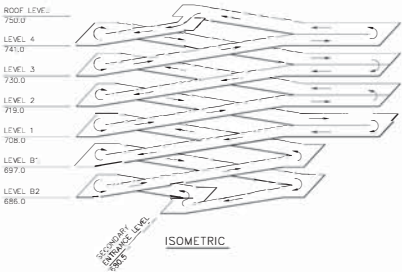


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL 2

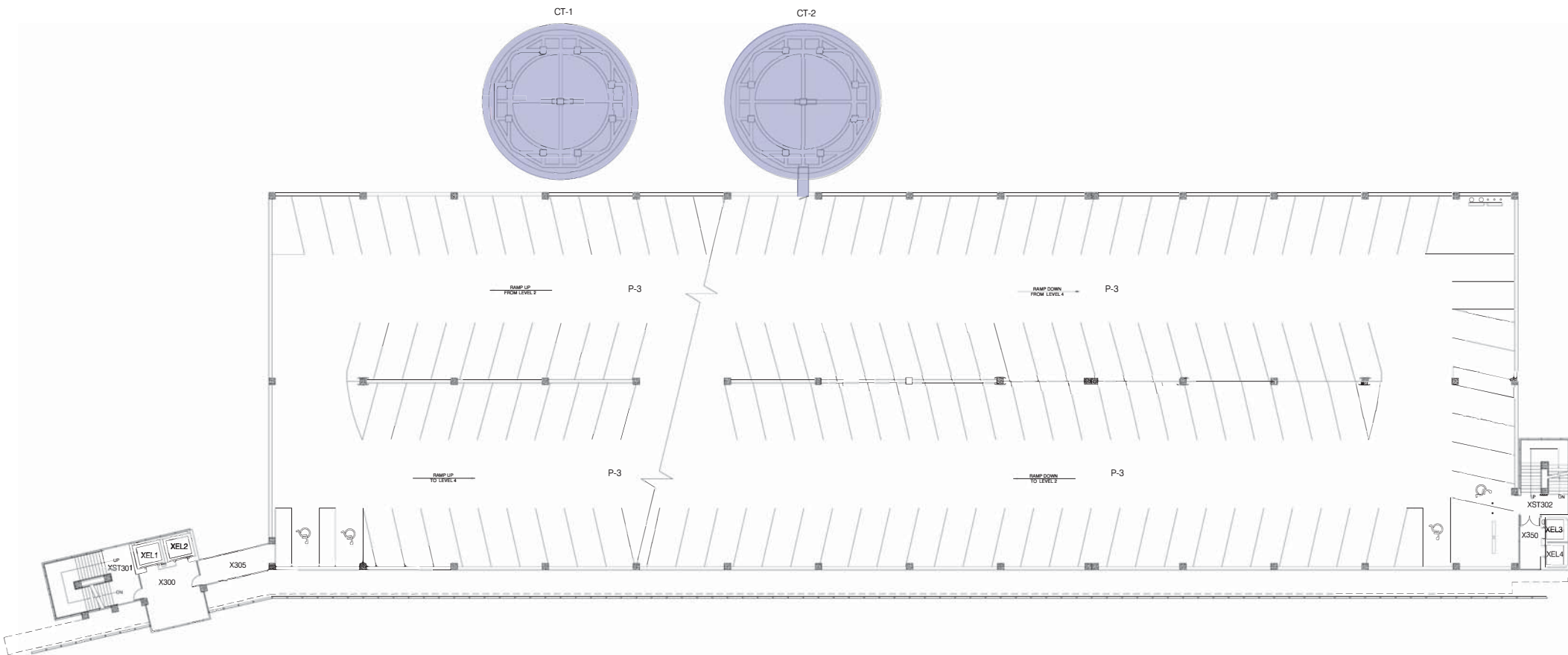
Bldg. No. 0443 05/22/2019 File: 443AR02



SCALE:



Description
● North Campus Chilled Water Plant

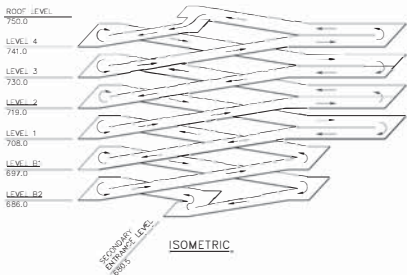


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL 3

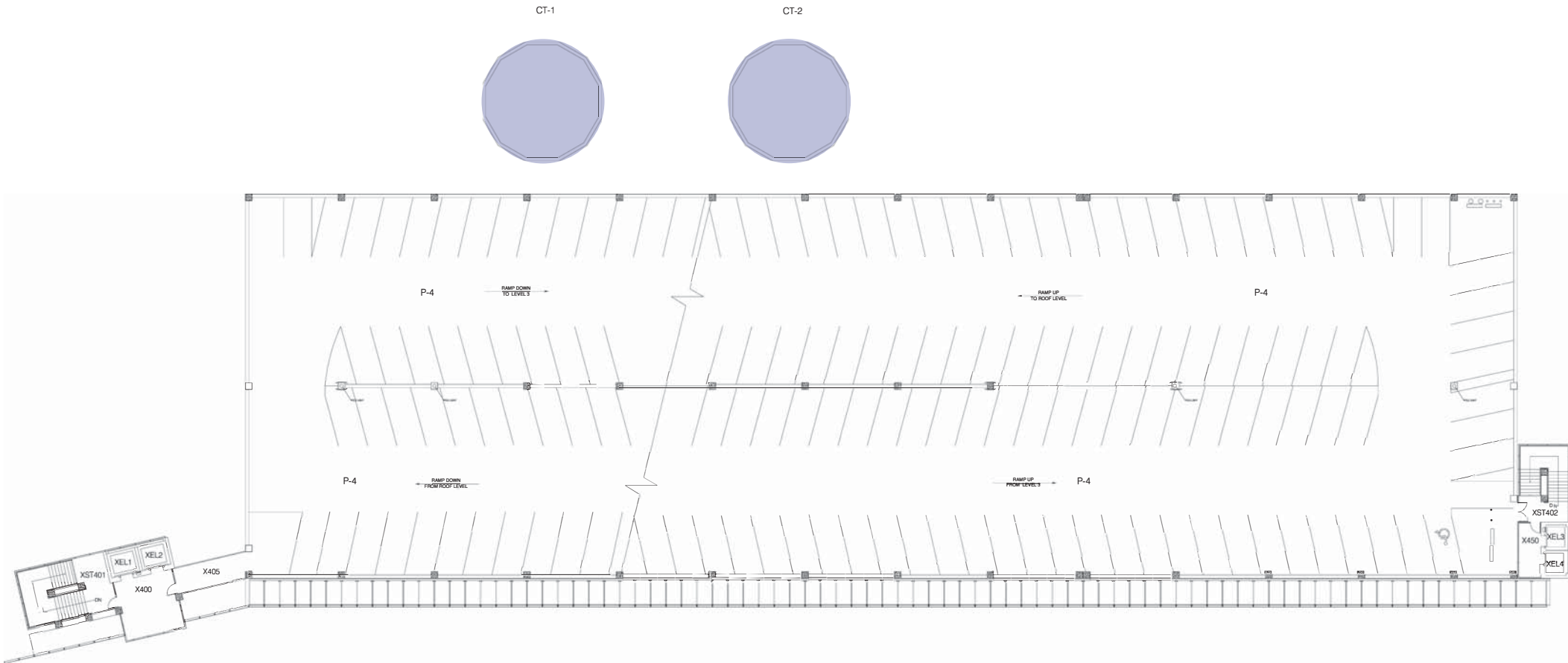
Bldg. No. 0443 05/22/2019 File: 443AR03



SCALE:



Description	
	North Campus Chilled Water Plant

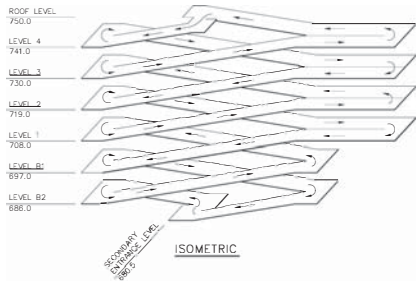
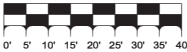


The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
PARKING LEVEL 4

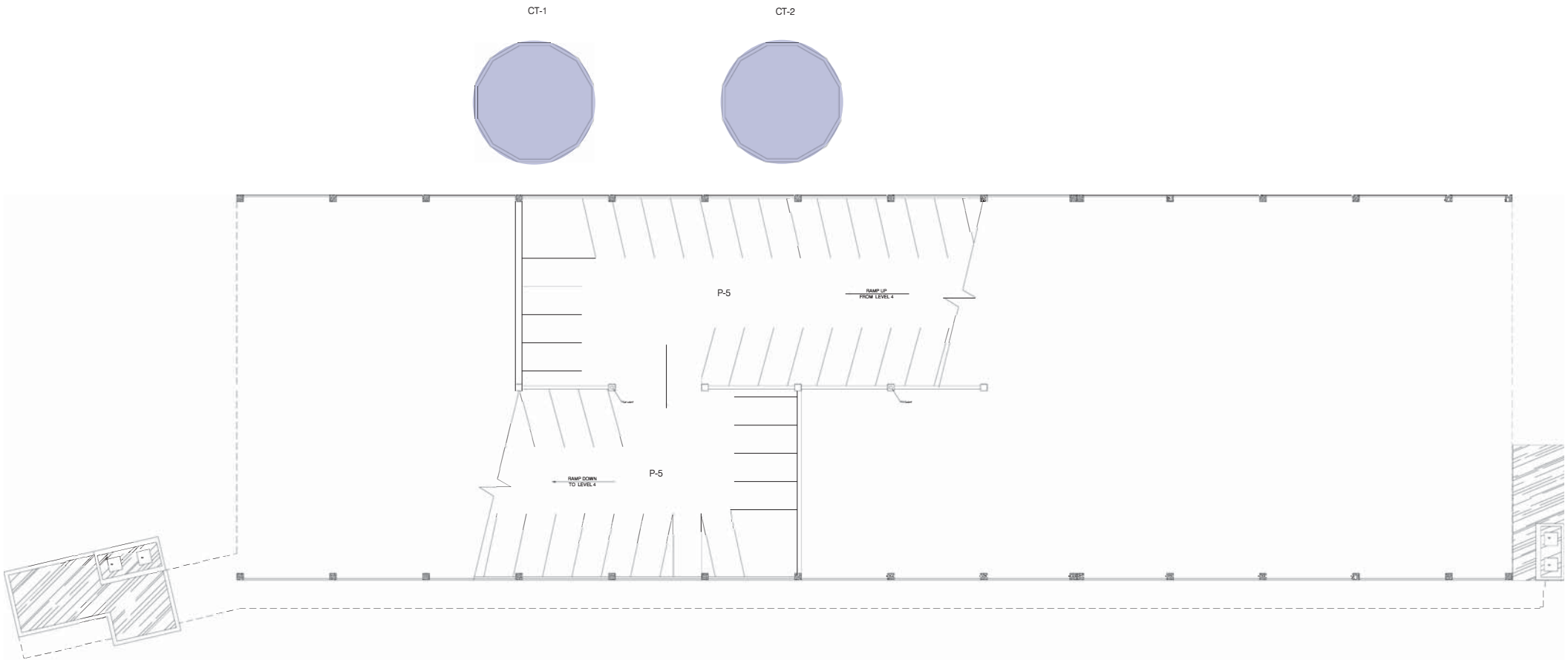
Bldg. No. 0443 05/22/2019 File: 443AR04



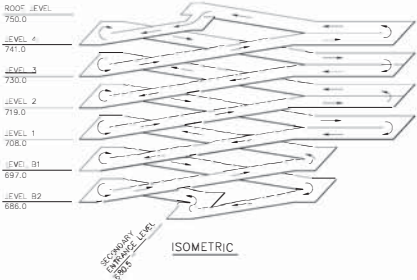
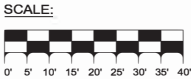
SCALE:



Description
<div> <div></div> <div>North Campus Chilled Water Plant</div> </div>





The University of Iowa
NEWTON ROAD PARKING & CHILLED WATER FACILITY
ROOF LEVEL PARKING
Bldg. No. 0443 05/22/2019 File: 443ARRF

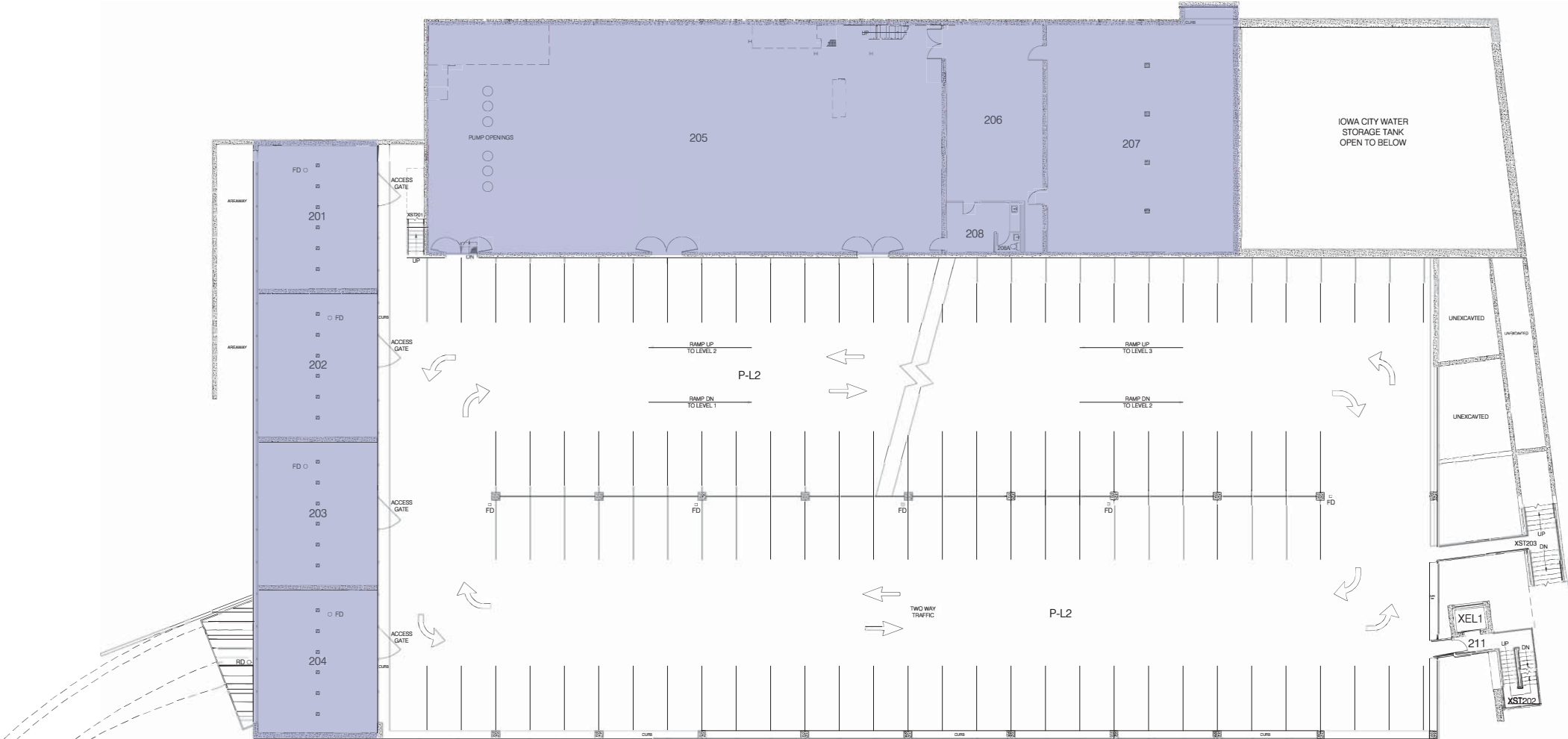


Part 11 North Campus Chilled Water Plant

The area comprising the North Campus Chilled Water Plant is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



 <h1 data-bbox="170 1806 787 1974">THE UNIVERSITY OF IOWA</h1> <p data-bbox="73 1995 673 2047">Friday, September 27, 2019 Document Name: 20190924_Concession_Property_North_Campus_Chilled_Water</p>	 <p data-bbox="787 1995 990 2047">1" = 200'</p>	<p data-bbox="1071 1774 1485 1921">Location Map: North Campus Chilled Water Plant 340 N Madison Street</p> <p data-bbox="1055 1963 1502 2047">Area = 20099 site Sq Ft or 0.46 acre more/less</p>
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The University of Iowa
**NORTH CAMPUS PARKING AND
 CHILLED WATER FACILITY**
 LEVEL 2

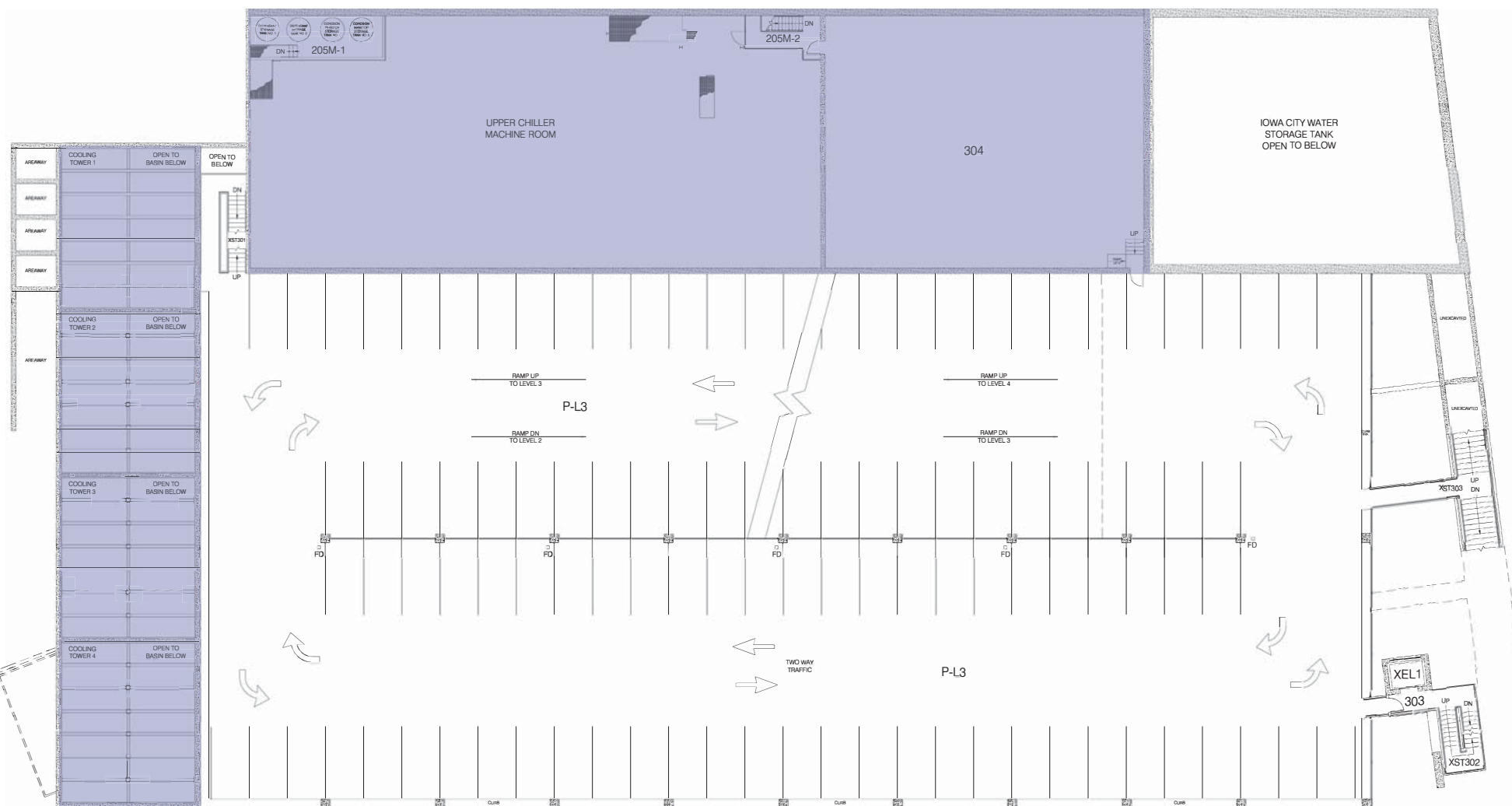
Bldg. No. 0422 05/10/2017 File: 422AR02



Description
● North Campus Chilled Water Plant

SCALE:





The University of Iowa
**NORTH CAMPUS PARKING AND
 CHILLED WATER FACILITY**
 LEVEL 3

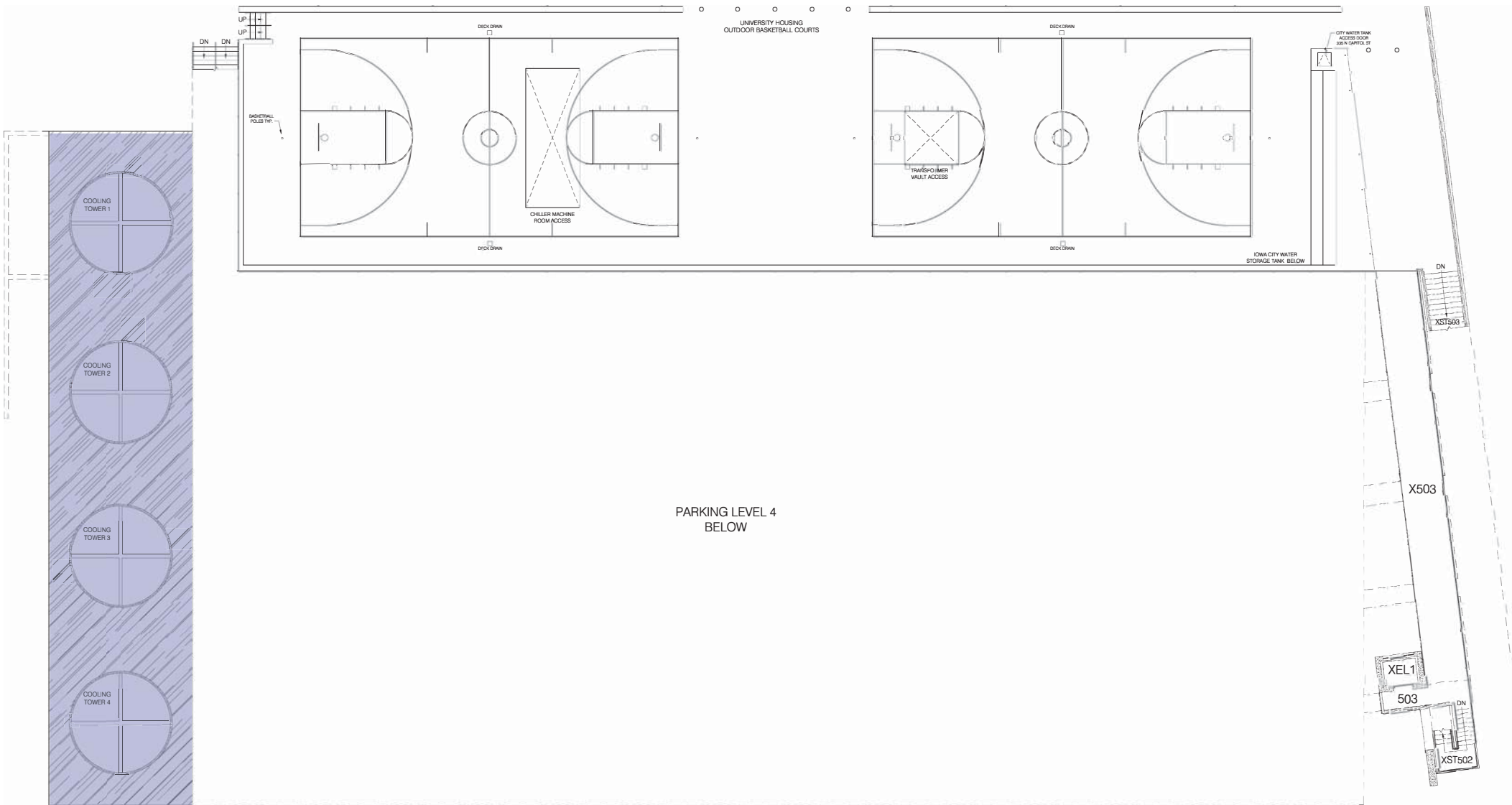
Bldg. No. 0422 12/08/2016 File: 422AR03



Description
● North Campus Chilled Water Plant

SCALE:





The University of Iowa
**NORTH CAMPUS PARKING AND
 CHILLED WATER FACILITY**
 LEVEL 5

Bldg. No. 0422

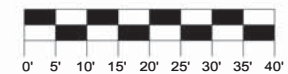
12/08/2016

File: 422AR05



Description
● North Campus Chilled Water Plant

SCALE:



TOWER ROOF

Part 12: Oakdale 69kV Substation



"Oakdale 69kV Substation"
concessionaire area

33462 site sq ft more/less



Tuesday, September 24, 2019

Document Name: 20190922_Concession_Property_Oakdale_69Kv_Substation

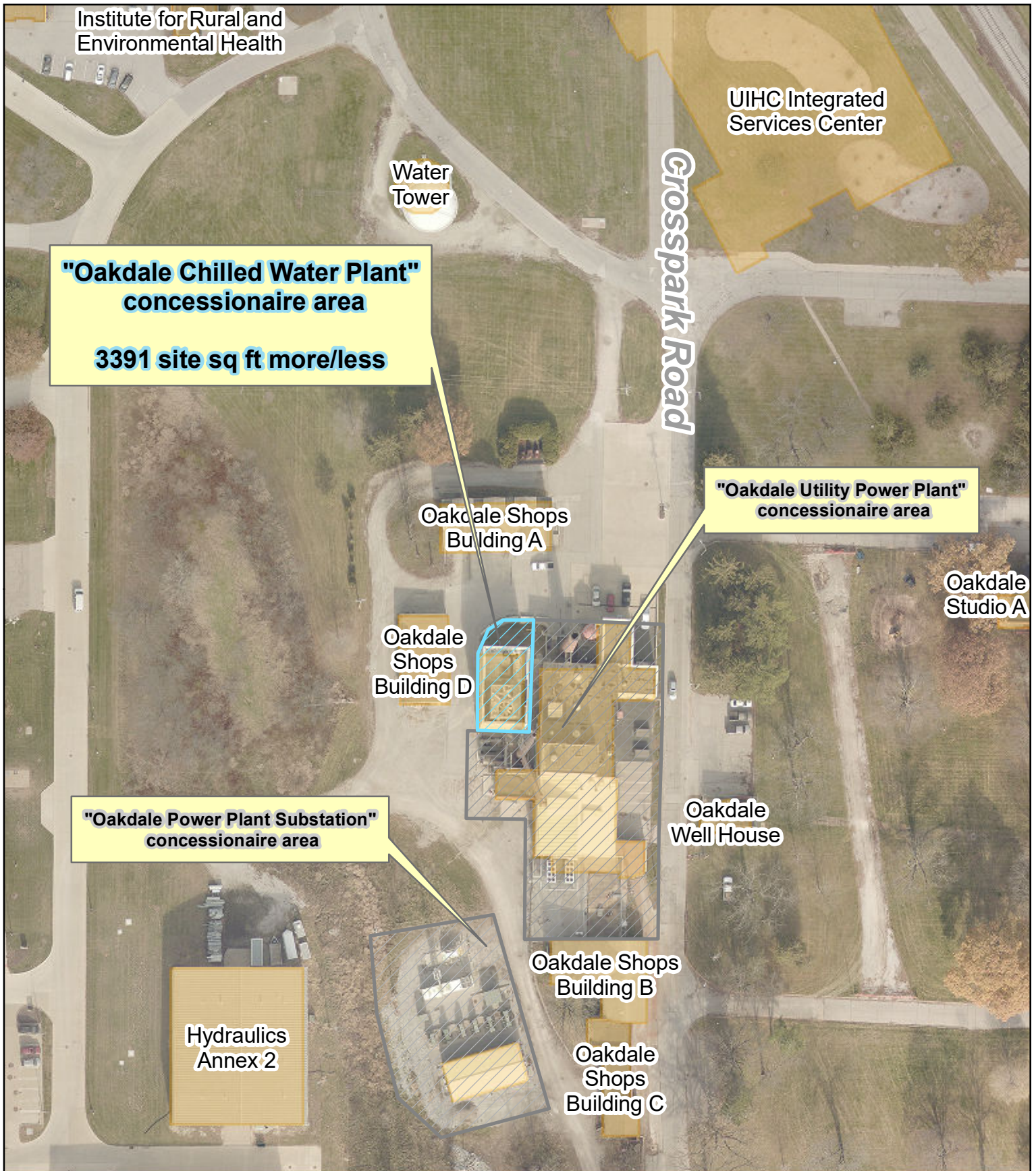




1 " = 100 '

Location Map:
Oakdale 69kV Substation
2340 Old Hospital Road

Area = 33462 site Sq Ft
or 0.77 acre more/less

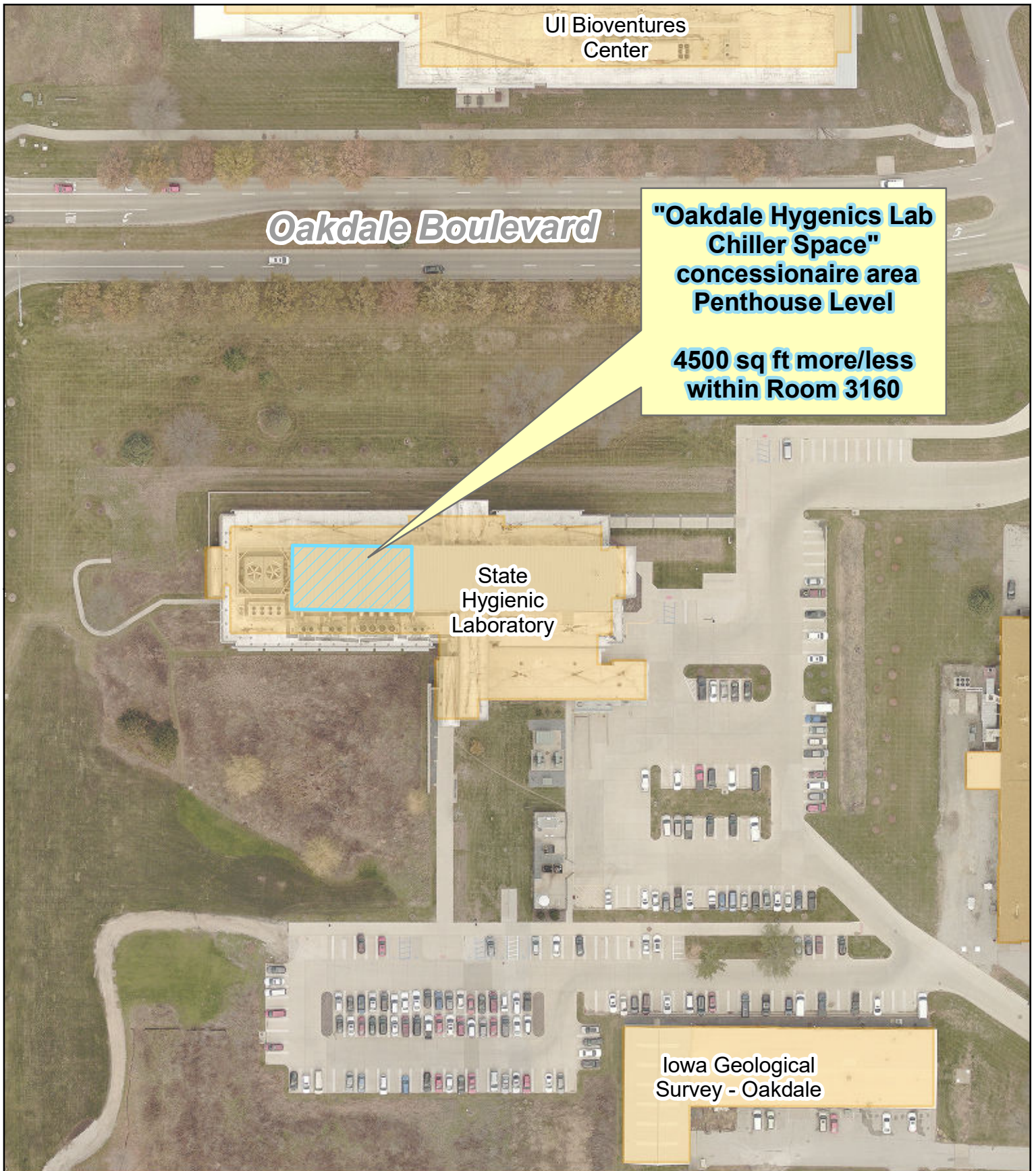
Part 13: Oakdale Chilled Water Plant



 <p>THE UNIVERSITY OF IOWA</p> <p>Tuesday, September 24, 2019 Document Name: 20190924_Concession_Property_Oakdale_Chilled_Water_Plant</p>	 <p>1" = 100'</p>	<p>Location Map: Oakdale Chilled Water Plant 2326 Crosspark Road</p> <p>Area = 3391 site Sq Ft or 0.08 acre more/less</p>
--	---	---

Part 14: Oakdale Hygienics Lab Chiller Space

The area comprising the Oakdale Hygienics Lab Chiller Space is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Oakdale_Hygenics_Chiller

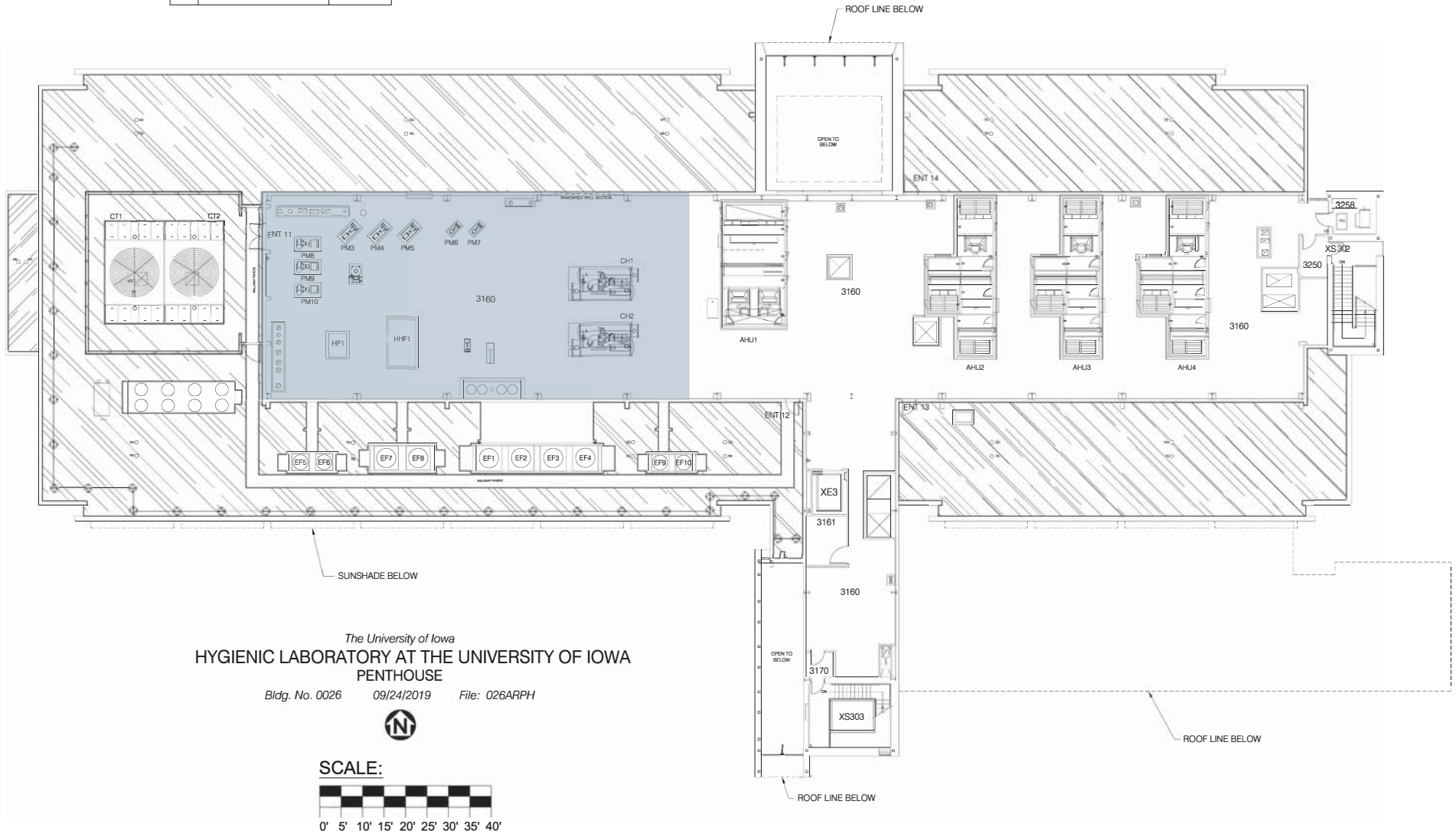


1" = 100'

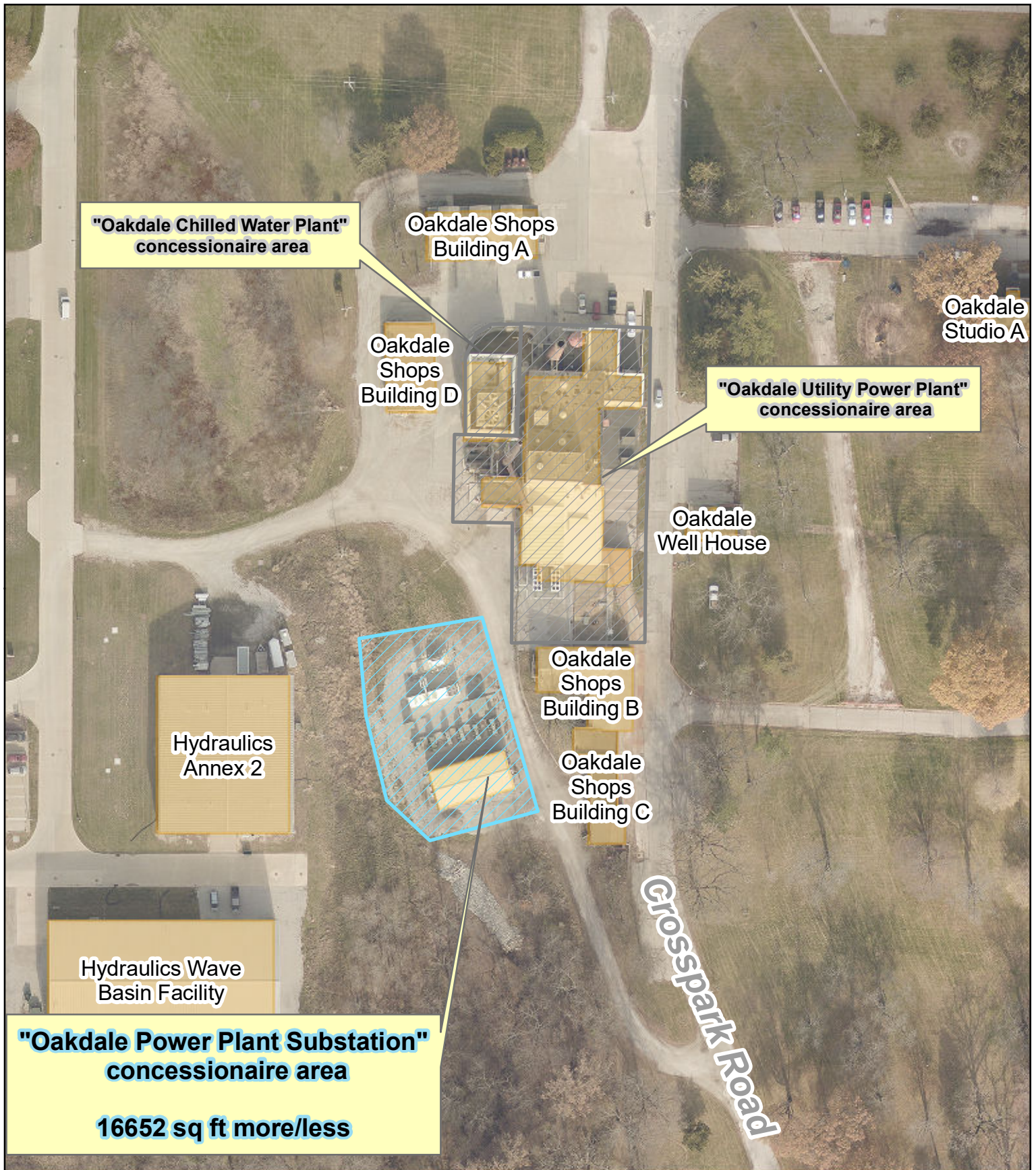
Location Map:
Oakdale Hygenics Lab
Chiller Space
2490 Crosspark Road

Area = 4500 Sq Ft more/less

	Description	Net Area (S.F.)
●	Chiller Space	~4,500



Part 15: Oakdale Power Plant Substation



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Oakdale_Substation



1" = 100'

**Location Map:
Oakdale Power Plant Substation
2276 Crosspark Road**

**Area = 16652 site Sq Ft
or 0.38 acre more/less**

Part 16: Oakdale Utility Power Plant

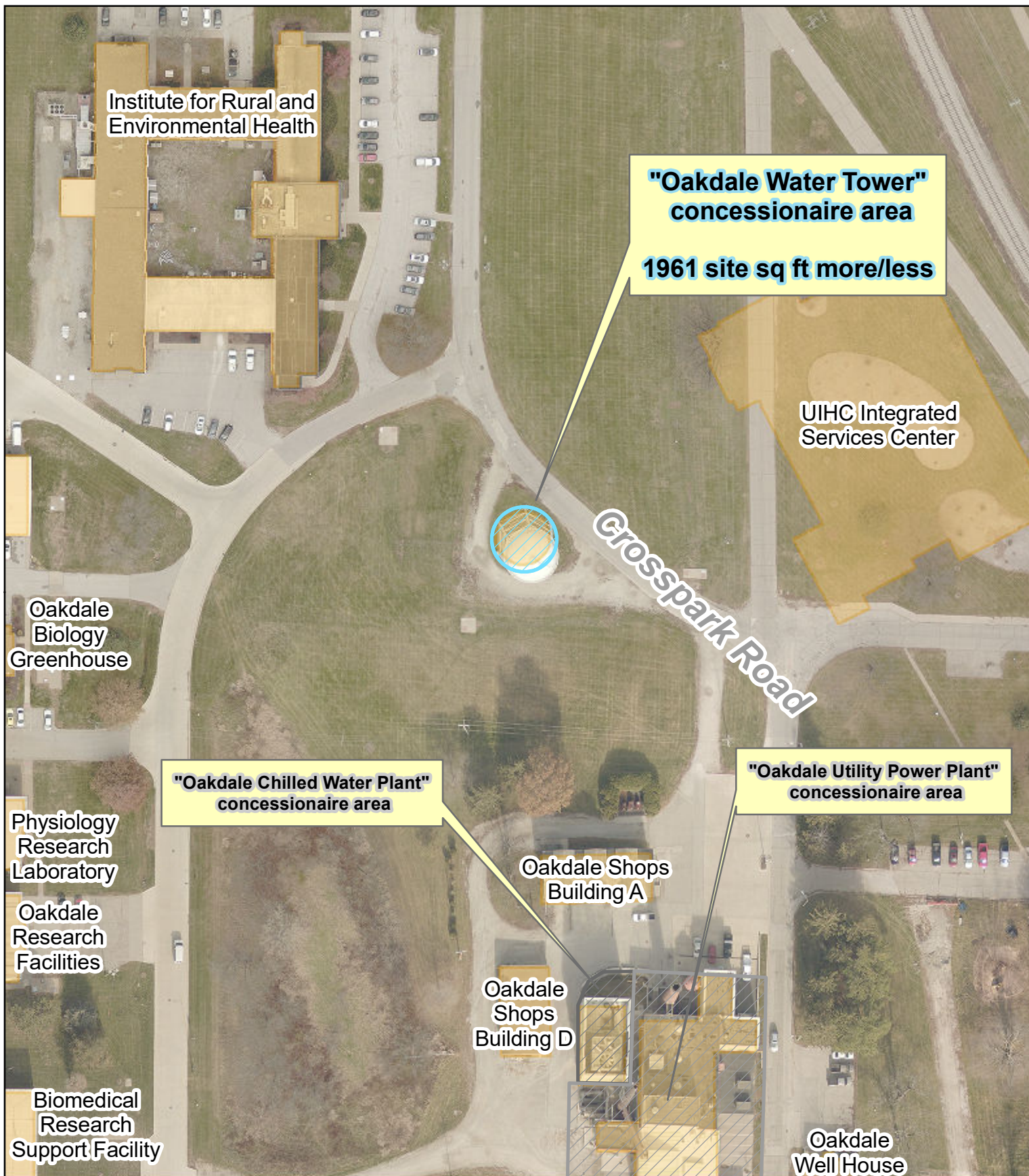


1 " = 100 '

Location Map:
Oakdale Utility Power Plant
2320 Crosspark Road

Area = 28610 site Sq Ft
or 0.65 acre more/less

Part 17: Oakdale Water Tower



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Oakdale_Water_Tower



1 " = 100 '

**Location Map:
Oakdale Water Tower
Crosspark Road**

**Area = 1961 site Sq Ft
or 0.05 acre more/less**

Part 18: Oakdale Well House



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_Oakdale_Well_House



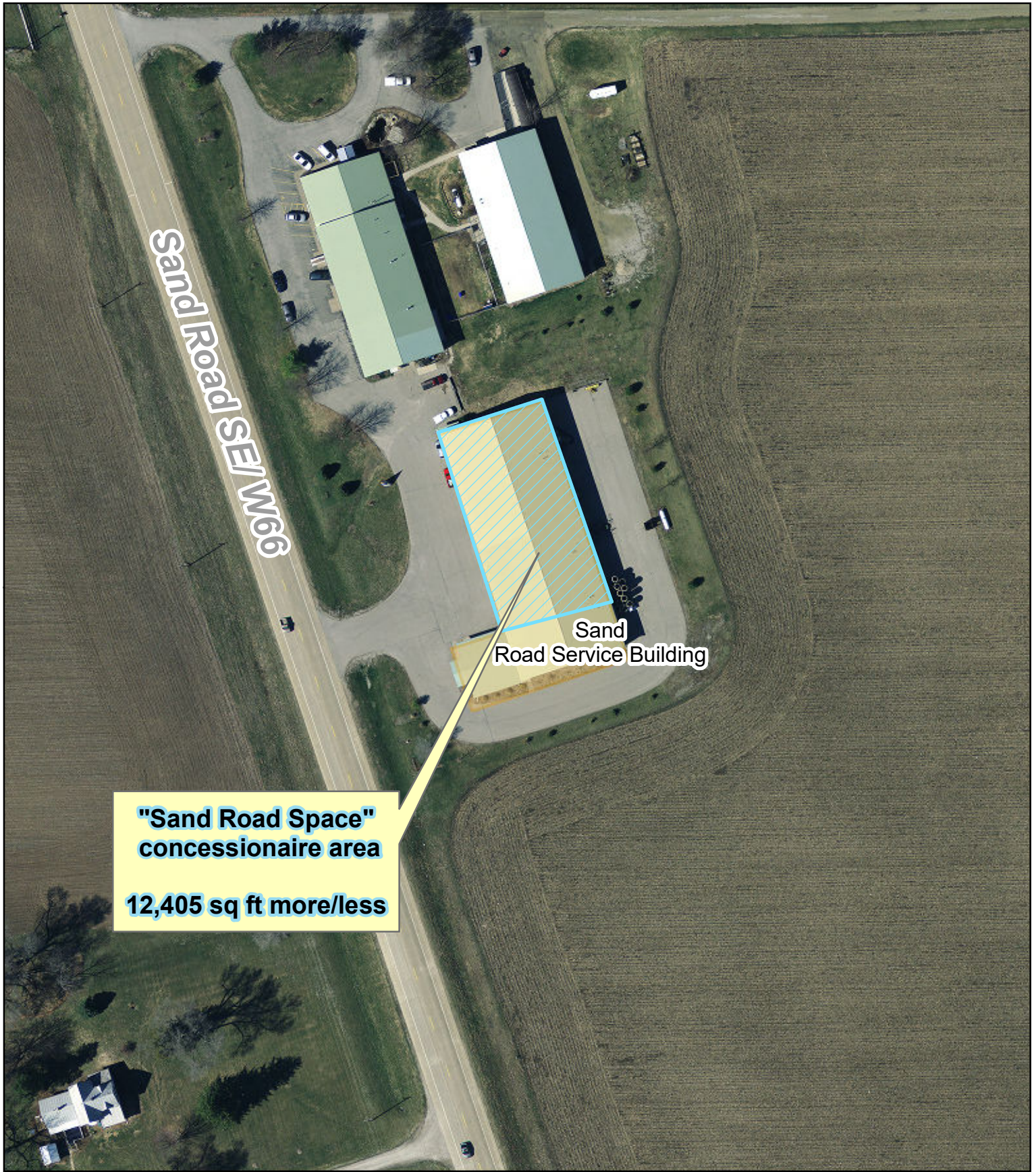
1" = 40'



**Location Map:
Oakdale Well House
2315 Crosspark Road**

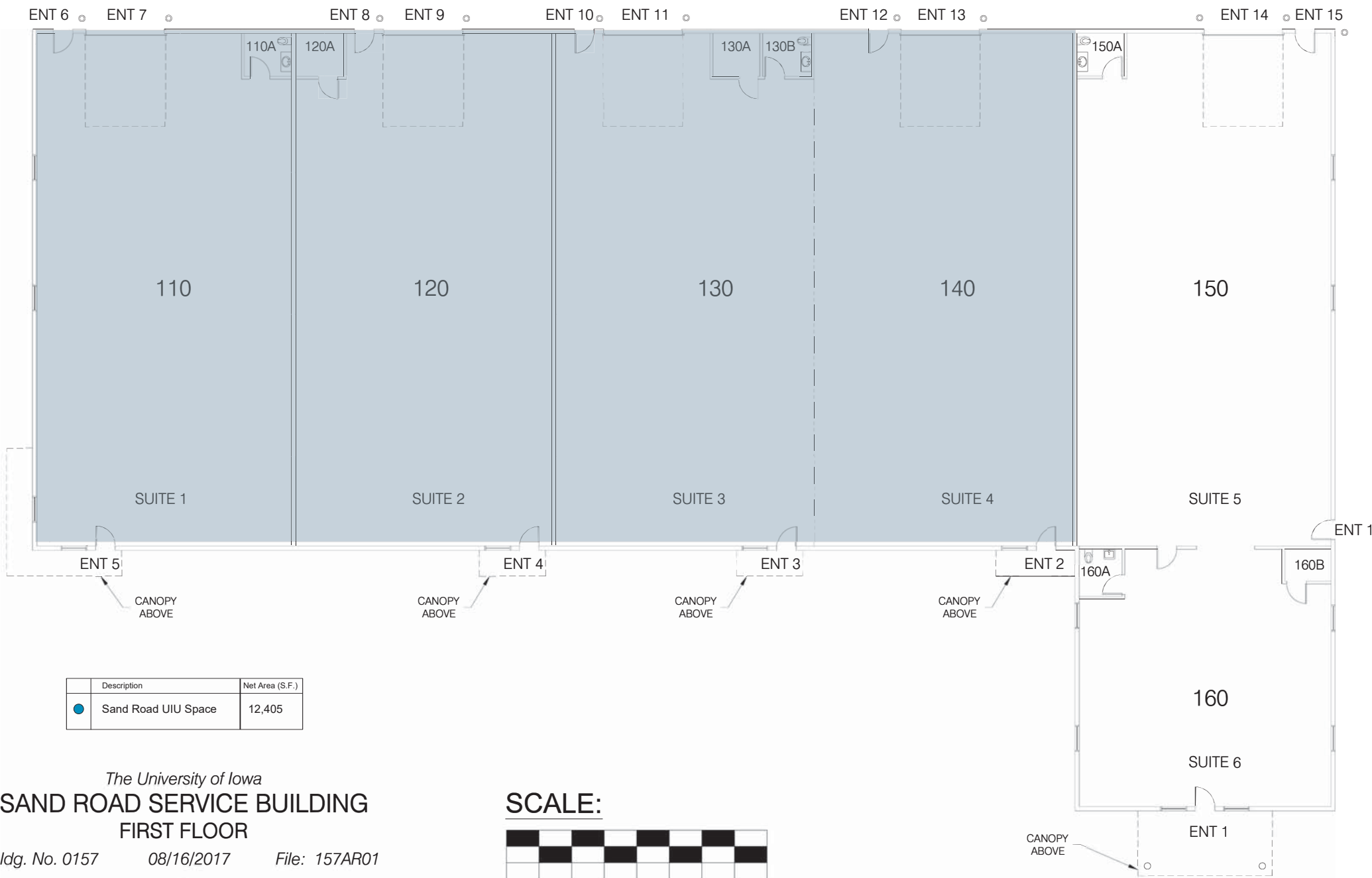
**Area = 1878 Sq Ft
or 0.04 acre more/less**

Part 19: Sand Road Space

The area comprising the Sand Road Space is a portion of a larger building on the University Campus, which is depicted on the map below and further delineated by the shaded areas on the floor plans that follow.



 <p>THE UNIVERSITY OF IOWA</p> <p>Tuesday, September 24, 2019 Document Name: 20190924_Concession_Property_Sand_Road</p>	 <p>1 " = 100 '</p>	<p>Location Map: Sand Road Space 4868 Sand Road</p> <p>Area = 12405 Sq Ft more/less</p>
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The University of Iowa
SAND ROAD SERVICE BUILDING
FIRST FLOOR

Bldg. No. 0157 08/16/2017 File: 157AR01



Part 20: Substation L



 <p>THE UNIVERSITY OF IOWA</p> <p>Tuesday, September 24, 2019 Document Name: 20190924_Concession_Property_SUB L</p>	 <p>1" = 200'</p>	<p>Location Map: Substation L 709 S Capitol Street</p> <p>Area = 41646 site Sq Ft or 0.96 acre more/less</p>
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Part 21: Substation U



Tuesday, September 24, 2019

Document Name: 20190924_Concession_Property_SUB U

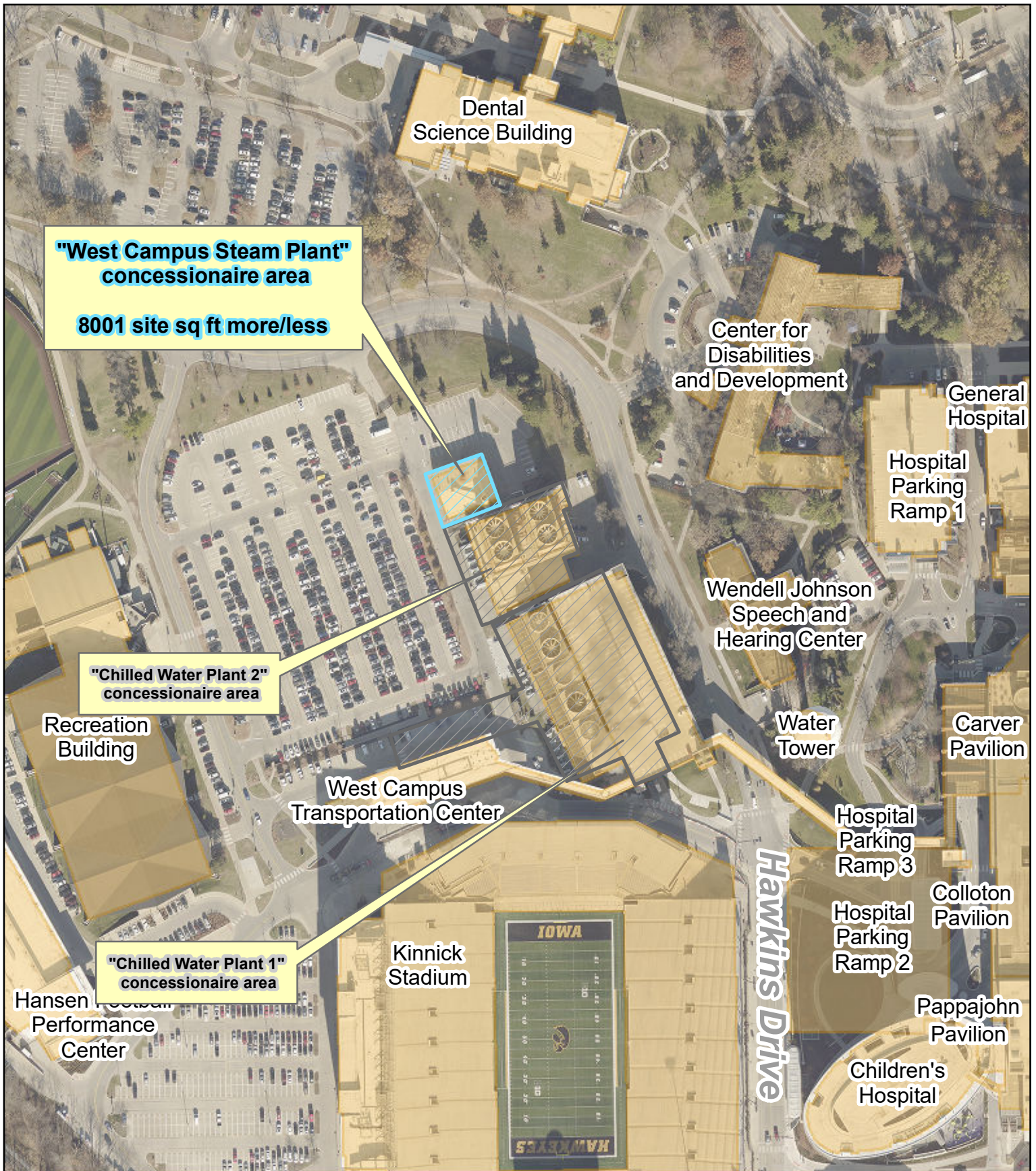


1 " = 200 '

**Location Map:
Substation U
755 Hawkins Drive**

**Area = 53063 Plan site Sq Ft
or 1.21 acre more/less**

Part 22: West Campus Steam Plant



**THE UNIVERSITY
OF IOWA**

Monday, October 07, 2019

Document Name: 20191007_Concession_Property_West_Steam



1" = 200'

**Location Map:
West Campus Steam Plant
345 Hawkins Drive**

**Total Area = 8001 site Sq Ft
or 0.18 acre more/less**

Part 23: Personal Property

Cellular Devices

Wireless Number	Cost Center	Device Model
319-383-3875	224 WATER PLANT	IPAD MINI 7.9 GRAY 64GB 2019 VZ
319-383-3784	224 WATER PLANT	IPAD MINI 7.9 GRAY 64GB 2019 VZ
319-383-3228	224 WATER PLANT	IPAD MINI 7.9 GRAY 64GB 2019 VZ
319-383-3172	224 WATER PLANT	IPAD MINI 7.9 GRAY 64GB 2019 VZ
319-383-3918	224 WATER PLANT	IPAD MINI 7.9 GRAY 64GB 2019 VZ
319-631-3473	CHILLED WATER	DURAXVPLUS BY KYOCERA
319-631-1944	CHILLED WATER	DURAXVPLUS BY KYOCERA
319-631-2463	CHILLED WATER	DURAXVPLUS BY KYOCERA
319-631-0111	CHILLED WATER	DURAXVPLUS BY KYOCERA
319-631-1956	CHILLED WATER	DURAXVPLUS BY KYOCERA
319-541-4215	CONTROLS ENGINEERING	VZ Jetpack 4G MHS 291L
319-631-4335	CONTROLS ENGINEERING	DURAXVPLUS BY KYOCERA
319-331-0511	ELEC DIST	Brigadier by Kyocera
319-631-1929	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1924	ELEC DIST	DURAXVPLUS BY KYOCERA
319-855-8038	ELEC DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-2867	ELEC DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-8126	ELEC DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8137	ELEC DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8125	ELEC DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8087	ELEC DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8080	ELEC DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8033	ELEC DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-8059	ELEC DIST	IPAD MINI 4 128GB SPACE GRAY
319-631-9259	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1920	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1065	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-3425	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1922	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1941	ELEC DIST	DURAXVPLUS BY KYOCERA
319-331-0512	ELEC DIST	Brigadier by Kyocera
319-631-1928	ELEC DIST	DURAXVPLUS BY KYOCERA
319-631-1934	ELEC DIST	DURA XV LTE WITH CAMERA
319-631-1418	MECH DIST	DURAXVPLUS BY KYOCERA
319-631-0157	MECH DIST	DURAXVPLUS BY KYOCERA
319-631-0821	MECH DIST	DURAXVPLUS BY KYOCERA
319-631-3710	MECH DIST	Brigadier by Kyocera
319-855-8158	MECH DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-8284	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8356	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8289	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8302	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8201	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-855-8147	MECH DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-8192	MECH DIST	IPAD MINI 4 128GB SPACE GRAY
319-855-8157	MECH DIST	IPAD MINI 4 128GB SPACE GRAY

Cellular Devices

Wireless Number	Cost Center	Device Model
319-631-9287	MECH DIST	DURAXVPLUS BY KYOCERA
319-359-9401	MECH DIST	Dura XV LTE with camera
319-631-1419	MECH DIST	DURAXVPLUS BY KYOCERA
319-631-1421	MECH DIST	DURAXVPLUS BY KYOCERA
319-631-3607	MECH DIST	Brigadier by Kyocera
319-383-2799	MECH DIST	DURAXVPLUS BY KYOCERA
319-259-9332	MECH DIST	IPAD WIFI 32GB SPACE GRAY
319-834-0686	MECH DIST	IPAD WIFI 32GB SILVER
319-834-0684	MECH DIST	IPAD WIFI 32GB SILVER
319-499-7082	MECH DIST	IPAD 9.7 128GB GOLD VZ
319-499-7024	MECH DIST	10.5 IPAD PRO 64GB GRAY VZ
319-631-4380	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-855-8370	METERS CONTROLS	IPAD WIFI 32GB SPACE GRAY
319-631-2023	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-631-2020	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-631-2025	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-631-2021	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-631-1938	METERS CONTROLS	DURAXVPLUS BY KYOCERA
319-631-6384	METERS CONTROLS	Brigadier by Kyocera
319-331-6265	METERS CONTROLS	IPAD 9.7 128GB SILVER VZ
319-834-9460	METERS CONTROLS	IPAD 9.7 128GB SPACE GRAY VZ
319-834-9725	METERS CONTROLS	IPAD 9.7 128GB SPACE GRAY VZ
319-631-0481	POWER PLANT	DURAXVPLUS BY KYOCERA
319-631-0584	POWER PLANT	DURAXVPLUS BY KYOCERA
319-631-0651	POWER PLANT	DURAXVPLUS BY KYOCERA
319-631-1480	POWER PLANT	DURAXVPLUS BY KYOCERA
319-631-0597	POWER PLANT	DURAXVPLUS BY KYOCERA
319-631-2334	WATER PLANT	DURAXVPLUS BY KYOCERA
319-631-2337	WATER PLANT	DURAXVPLUS BY KYOCERA
319-333-4205	WATER PLANT	VZ JETPACK 4G LTE MHS AC791L
319-631-2336	WATER PLANT	DURAXVPLUS BY KYOCERA
319-631-1955	WATER PLANT	DURAXVPLUS BY KYOCERA
319-631-2339	WATER PLANT	IPHONE 7 BLACK 32GB
319-631-2332	WATER PLANT	DURAXVPLUS BY KYOCERA
319-631-2017	WATER PLANT	DURAXVPLUS BY KYOCERA
319-631-1410	WATER PLANT	DURAXVPLUS BY KYOCERA

Two Way Radios

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
1	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TRD7753	1
2	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TDR7781	1
3	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TQZX333	1
4	Power Plant	Property	radio, XPR7550, AAH55QDH9LA1AN ,871TUT4924	1
5	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TQZX325	1
6	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TRTV821	1
7	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT4926	1
8	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT4950	1
9	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT4986	1
10	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT4993	1
11	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT5009	1
12	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT5040	1
13	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT5097	1
14	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TRTV752	1
15	Power Plant	Property	radio, XPR7550, AAH55QDH9LA1AN ,037TNW8056	1
16	Power Plant	Property	radio, XPR7550, AAH55QDH9LA1AN ,037TPY5497	1
17	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT6599	1
18	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT6633	1
19	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TNW780	1
20	Power Plant	Property	radio, XPR7550, AAH55QDH9LA1AN ,871TUT6635	1
21	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TUT6803	1
22	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TQZV312	1
23	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TQZV624	1
24	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TRTV676	1
25	Power Plant	Property	radio, XPR7550, AAH56RDN9KA1AN ,871TRTV722	1
26	Power Plant	Property	radio, XPR7550e, AAH56RDN9WA1AN ,871TUVT368	1
27	Power Plant	Property	radio, XPR7550e, AAH56RDN9WA1AN ,871TUVT422	1

Local Printers

Model	Computer
Dymo LabelWriter 450 DUO	FM15-MECH-DIST
Zdesigner GX430t	FM15-MECH-DIST
HP OfficeJet Pro 8610	FM15-MSSB-133C
ZDesigner GX430t	FM15-PP-PARTREC
DYMO LabelWriter 450 DUO	FM15-RANY5
HP Color LaserJet Pro MFP M476	FM15-RANY5
HP DeskJet 6940	FM16-MRCRAIG
Brother PT-P750W	FM16LT-MCANDREW
HP DeskJet 2540	FM16LT-MCANDREW
HP DeskJet 6940	FM16-MSSB-129C
HP OfficeJet Pro 8610	FM16-MSSB-133
HP OfficeJet Pro 8610	FM17-CROBE
HP OfficeJet Pro 8610	FM17-EESTROUD
Dell B1260dn	FM17-HVAC-DSB
Brother PT-P750W	FM17-LDENISON
Brother PT-P750W	FM17-LT-SRHARPER
Brother PT-P750W	FM17-MCANDREW
HP OfficeJet Pro 8610	FM17-MSSB-133B
HP OfficeJet Pro 8600	FM17-NCWP-OPS
Epson WF-3620	FM17-RMULLIN
HP DeskJet 5700	FM17-WCWP2-LAB
Epson Stylus C88	FM17-WCWP-BRKRM
Epson XP-630	FM17-WCWPBRKRM1
Epson Stylus C88	FM17-WCWP-OPS
HP DeskJet 6940	FM17-WP-BWEYERS
HP DeskJet 6940	FM17-WP-TMETZ
Dell E310dw	FM18-BSWEARIN
Graphic Products DuraLabel PRO	FM18-BSWEARIN
Dell B1260dn	FM18-CRWC-170C
Epson XP-610	FM18-CWPBRNDT
HP OfficeJet Pro 8610	FM18LT-BLANDRSO
HP LaserJet M1536dnf	FM18LT-BLANDRSO
Brother PT-P750W	FM18LT-NEWKIRK
HP OfficeJet Pro 8610	FM18LT-PP-PLAN2
HP LaserJet M1536dnf	FM18LT-PP-PLAN2
ZDesigner GX430t	FM18LT-SYCHRAA
Brother PT-P750W	FM18LT-TSLAUBAU
HP DeskJet 6940	FM18-PBB-W192A
Dell 2155cn	FM18-PP-OAKDALE
HP OfficeJet 8610	FM19-BLANDRSON
HP DeskJet 6940	FM19-PP-COALSH
Graphic Products DuraLabel Pro 300	FM19-PP-TURBRM3
DuraLabel PRO	FM19-SKOTTENS

Network Printers

Name	Location	Model	IP Address
FM-CWP2-SB4-MFD	CWP2 SB4	Toshiba e-Studio 3505AC	172.30.44.143
FM-MSSB100-MFD	MSSB 100	HP OfficeJet 8600	172.30.80.61
FM-MSSB123-MFD	MSSB 123	Toshiba e-Studio 4505AC	172.30.80.49
FM-PP100-MFD	PP 100	Toshiba e-Studio 4505AC	172.30.80.42
FM-PP2C-BW	PP 2C	HP LaserJet P2055	172.30.80.12
FM-PP-COLOR-NORTH-TRAILER		HP Officejet 7000 E809a	172.30.80.138
FM-PP-MFD-NORTH-TRAILER		HP Color Laserjet Pro M477fdn	172.30.80.45
FM-PP-PLOTTER	PP	HP Designjet T610 44"	172.30.80.46
FM-WP102-MFD	WP 102	Toshiba eStudio 3005ac	172.30.80.53
FM-WP220A-BW	WP 220A	HP LaserJet 6MP	172.30.80.54

WiFi iOS Devices

Display Name	Model
FM-IPAD-RBEAN	iPad 5th Generation (Wi-Fi)
FM-IPAD-NVANVOORST	iPad 5th Generation (Wi-Fi)
FM-IPAD-BHAUGLAND	iPad Pro (9.7-inch Wi-Fi)
FM-IPAD-JSABOURI	iPad 5th Generation (Wi-Fi)
FM-IPAD-RSASS	iPad 5th Generation (Wi-Fi)
FM-IPAD-MKOLDER	iPad 5th Generation (Wi-Fi)
FM-IPAD-JRONAN	iPad 5th Generation (Wi-Fi)
FM-IPAD-MTMARSH	iPad 5th Generation (Wi-Fi)
FM-IPAD-ETIRGARD	iPad 5th Generation (Wi-Fi)
FM-IPAD-AJWELDN	iPad mini 4 (Wi-Fi)
FM-IPAD-AJWELDN	iPad 6th Generation (Wi-Fi)
FM-IPAD-RREDLING	iPad 5th Generation (Wi-Fi)
FM-IPAD-SELLNER	iPad Air 2 (Wi-Fi)
FM-IPAD-TSLAUBAU	iPad Air 2 (Wi-Fi)
FM-IPAD-SRHARPER	iPad Air 2 (Wi-Fi)
FM-IPAD-DOLLENDI	iPad Air 2 (Wi-Fi)
FM-IPAD-NEWKIRK	iPad Air 2 (Wi-Fi)
FM-IPAD-CSTIEGLI	iPad Air 2 (Wi-Fi)
FM-IPAD-MLBRWN	iPad Air 2 (Wi-Fi)
FM-IPAD-MCANDREW	iPad Air 2 (Wi-Fi)
FM-IPAD-MSBURNET	iPad Air 2 (Wi-Fi)
FM-IPAD-JWKROB	iPad Air 2 (Wi-Fi)
FM-IPAD-MHAMMOND	iPad Air 2 (Wi-Fi)
FM-IPAD-ECFORESM	iPad mini 2nd Generation (Wi-Fi)
FM-IPAD-LGERONZIN	iPad Air 2 (Wi-Fi)
FM-IPAD-TRAIN8	iPad Air 2 (Wi-Fi)
FM-IPAD-TRAIN9	iPad Air 2 (Wi-Fi)
FM-IPAD-JTGREINE	iPad Air (Wi-Fi)
FM-IPAD-RMULLINN	iPad 5th Generation (Wi-Fi)
FM-IPAD-NWTON	iPad Air (Wi-Fi)
FM-IPAD-CESCALANTE	iPad Air 2 (Wi-Fi)
FM-IPAD-SYCHRAA	iPad Air (Wi-Fi)
FM-IPAD-CONAWY	iPad 6th Generation (Wi-Fi)
FM-IPAD-JMORD1	iPad Air 2 (Wi-Fi)
FM-IPAD-JMORD2	iPad Air 2 (Wi-Fi)
FM-IPAD-JMORD4	iPad Air 2 (Wi-Fi)
FM-IPAD-JMORD3	iPad Air 2 (Wi-Fi)
FM-IPAD-BRNDT	iPad 5th Generation (Wi-Fi)
FM-IPAD-RREGENNI	iPad Air 2 (Wi-Fi)
FM-IPAD-JAGOSS	iPad Air 2 (Wi-Fi)
FM-IPAD-NETOLCLKY	iPad mini 4 (Wi-Fi)
FM-IPAD-NETOLCKY	iPad 6th Generation (Wi-Fi)
FM-IPAD-SMWELSH	iPad Air 2 (Wi-Fi)
FM-IPAD-KROSZELL	iPad Air 2 (Wi-Fi)
FM-IPAD-RSEXTON	iPad Air 2 (Wi-Fi)
FM-IPAD-RSAUER	iPad Air 2 (Wi-Fi)

WiFi iOS Devices

Display Name	Model
FM-IPAD-CROSZELL	iPad Air 2 (Wi-Fi)
FM-IPAD-RMBEATTI	iPad Air 2 (Wi-Fi)
FM-IPAD-SGREENE	iPad Air 2 (Wi-Fi)
FM-IPAD-JDEAN3	iPad Air 2 (Wi-Fi)
FM-IPAD-TMETZ	iPad Air 2 (Wi-Fi)

Utility Network PCs

Manufacturer	Processor	HWVersion	Name	Model	SerialNumber	Type
Dell Inc.	Intel(R) Core(TM) i7-2640M CPU @ 2.80GHz	DELL - 6222004	CP-EWS-02	Latitude E6520	G3SZCS1	Laptop
Unknown	NA	NA	CP-OWS-01	NA	NA	
Unknown	NA	NA	CP-OWS-05	NA	NA	
Dell Inc.	Intel(R) Core(TM)2 Duo CPU E8200 @ 2.66GHz	DELL - 15	CP-OWS-12	OptiPlex 755	5NYS5H1	
Dell Inc.	Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz	DELL - 6222004	CP-OWS-13	OptiPlex 990	1B061R1	
Unknown	NA	NA	CP-OWS-14	NA	NA	
Unknown	NA	NA	CP-OWS-15	NA	NA	
Dell Inc.	Intel(R) Pentium(R) Dual CPU E2140 @ 1.60GHz	DELL - 42302e31	CP-OWS-17	Vostro 200	55K5QD1	
Unknown	NA	NA	CP-OWS-25	NA	NA	
Unknown	NA	NA	FM19LT-SMCKNIGH	NA	NA	Laptop
Dell Inc.	Intel(R) Core(TM) i3 CPU 530 @ 2.93GHz	DELL - 15	MC-CIM-01	OptiPlex 980	BP1XR1	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	MC-CIM-03	OptiPlex 9020	D41XQ22	
Dell Inc.	Intel(R) Core(TM) i5-6500 CPU @ 3.20GHz	DELL - 1072009	MC-CIM-05	OptiPlex 7040	8NYJZC2	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	MC-CIM-HV	OptiPlex 9020	D41YQ22	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	MC-CIM-L1	OptiPlex 990	CMHJZV1	
Dell Inc.	Intel(R) Core(TM)2 Duo CPU E8500 @ 3.16GHz	DELL - 15	MC-CIM-L2	OptiPlex 960	397LTL1	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	MC-CIM-MC	OptiPlex 9020	D420R22	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	MC-CIM-U1	OptiPlex 9020	D41ZQ22	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	MC-CIM-U2	OptiPlex 990	CMHKZV1	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	MC-NETMAN	Precision T1700	10C7S52	
Dell Inc.	Intel(R) Core(TM) i5-6500 CPU @ 3.20GHz	DELL - 1072009	MC-SHOP-02	OptiPlex 7040	FBPLMF2	
Dell Inc.	Intel(R) Core(TM) i5-3570 CPU @ 3.40GHz	DELL - 1072009	MC-SHOP-03	OptiPlex 9010	9MT0RW1	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	OD-CIM-02	OptiPlex 9020	D425R22	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	WP-CIM-01	OptiPlex 9020	D424R22	
Dell Inc.	Intel(R) Core(TM) i5-6500 CPU @ 3.20GHz	DELL - 1072009	WP-CIM-03	OptiPlex 7040	G0Q9DH2	
Neosys Technology Inc.	Intel(R) Core(TM) i7-6700TE CPU @ 2.40GHz	INSYDE - 0	WP-CIM-04	Nuvo-5000	U656548	
Neosys Technology Inc.	Intel(R) Core(TM) i7-6700TE CPU @ 2.40GHz	INSYDE - 0	WP-CIM-05	Nuvo-5000	U700600	
Unknown	NA	NA	MC-DMARCH	NA	NA	Laptop
Dell Inc.	Intel(R) Core(TM) i7-8650U CPU @ 1.90GHz	DELL - 1072009	MC-MPM-LT1	Latitude 7490	HFHWVT2	Laptop
Dell Inc.	Intel(R) Core(TM) i5-4590 CPU @ 3.30GHz	DELL - 1072009	OD-CIM-01	OptiPlex 7020	1BJXT52	
Advantech	Intel(R) Atom(TM) CPU E3845 @ 1.91GHz	ALASKA - 1072009	WP-H2O-SRV	UNO-1372G-E3AE	TPAB840599	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-EWS-01	OptiPlex 990	7N4CNS1	Laptop
Dell Inc.	Intel(R) Core(TM) i7-2640M CPU @ 2.80GHz	DELL - 6222004	CP-EWS-03	Latitude E6520	D3SZCS1	Laptop

Utility Network PCs

Manufacturer	Processor	HWVersion	Name	Model	SerialNumber	Type
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-02	OptiPlex 990	7N5CNS1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-03	OptiPlex 990	7N59NS1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-04	OptiPlex 990	7N58NS1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-06	OptiPlex 990	7N4BNS1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-07	OptiPlex 990	7N4FNS1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-08	OptiPlex 990	7N5FNS1	
Dell Inc.	Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz	DELL - 6222004	CP-OWS-09	OptiPlex 990	1B151R1	
Dell Inc.	Intel(R) Core(TM) i5-3570 CPU @ 3.40GHz	DELL - 1072009	CP-OWS-10	OptiPlex 9010	1CLMXV1	
Dell Inc.	Intel(R) Core(TM) i7-2600 CPU @ 3.40GHz	DELL - 6222004	CP-OWS-11	OptiPlex 990	BHB8NS1	
Dell Inc.	Intel(R) Core(TM) i5-3550 CPU @ 3.30GHz	DELL - 1072009	CP-OWS-18	OptiPlex 9010	9C8MWV1	
Unknown	NA	NA	CP-OWS-19	NA	NA	
Dell Inc.	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz	DELL - 1072009	CP-OWS-20	OptiPlex 5040	FV2H382	
Unknown	NA	NA	ED-KOTTEN	NA	NA	Laptop
Unknown	NA	NA	FM16-ENGCTR	NA	NA	Laptop
Dell Inc.	Intel(R) Core(TM) i7-4770 CPU @ 3.40GHz	DELL - 1072009	FM-7-ECC2	OptiPlex 9020	23Q7L02	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	FM-7-OPP-RSV2	OptiPlex 9020	C97FP22	
Unknown	NA	NA	MC-CRAIG	NA	NA	Laptop
Dell Inc.	Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz	DELL - 6222004	MC-DBREAM	Latitude E6420	274C2Q1	Laptop
Unknown	NA	NA	MC-MMH-LT	NA	NA	Laptop
Unknown	NA	NA	MC-MPM-LT	NA	NA	Laptop
Unknown	NA	NA	MC-TEST	NA	NA	
Dell Inc.	Intel(R) Core(TM) i5-2400 CPU @ 3.10GHz	DELL - 6222004	PP-7-ABBEWS	OptiPlex 990	G3194V1	
Dell Inc.	Intel(R) Core(TM) i5-4310U CPU @ 2.00GHz	DELL - 1072009	PP-METERSHOP3	Latitude 14 Rugged Extreme (7404)	7JSMNY1	Laptop
Dell Inc.	Intel(R) Core(TM) i5-6300U CPU @ 2.40GHz	DELL - 1072009	PP-METERSHOP4	Latitude E7470	BRH7P72	Laptop
Dell Inc.	Intel(R) Pentium(R) Dual CPU E2160 @ 1.80GHz	DELL - 42302e31	PP-RSVIEW-LAB	Vostro 200	5JWN6G1	
Phoenix Contact	Intel(R) Core(TM) i5-4300U CPU @ 1.90GHz	PXCIPC - 1072009	CP-OWS-31	Valueline VL2 PPC 7000	1813B00591	
Dell Inc.	Intel(R) Core(TM) i3-4150 CPU @ 3.50GHz	DELL - 1072009	FM-7-OPP-RSV3	Precision T1700	2939842	
Dell Inc.	Intel(R) Core(TM) i7-4790 CPU @ 3.60GHz	DELL - 1072009	UOICEMWKS01	OptiPlex 7020	BSQYD42	
Phoenix Contact	Intel(R) Core(TM) i7 CPU E 610 @ 2.53GHz	PXCIPC - 1072009	WP-CIM-02	Valueline i7 IPC	1319B02642	
Dell Inc.	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	DELL - 1	CP-DATA-SRV	PowerEdge R710	HNLNMN1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	DELL - 1	CP-WCW01	PowerEdge R710	35CWLS1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	DELL - 1	CP-WCW02	PowerEdge R710	35CTL51	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5- 2620 0 @ 2.00GHz	DELL - 1	EM-AF-SRV	PowerEdge R620	BJNKDX1	Server

Utility Network PCs

Manufacturer	Processor	HWVersion	Name	Model	SerialNumber	Type
Dell Inc.	Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz	DELL - 1	EM-PI-SRV-P	PowerEdge R620	BJNJDX1	Server
Dell Inc.	Intel(R) Xeon(R) CPU X3470 @ 2.93GHz	DELL - 1	FM-PAVILION-SRV	PowerEdge R210	63DHCP1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	DELL - 0	MC-DATA-SRV	PowerEdge R630	9HHJKB2	Server
Dell Inc.	Intel(R) Xeon(R) CPU X5570 @ 2.93GHz	DELL - 1	MC-CIM-PLC-P	PowerEdge R410	6R0FPL1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2420 v2 @ 2.20GHz	DELL - 1	UOICEMSRV	PowerEdge T320	814XR52	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5520 @ 2.27GHz	DELL - 1	UTILITIES-APP	PowerEdge R710	G7VPLL1	Server
Dell Inc.	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz	DELL - 0	CP-CIM-SRV-B	PowerEdge R440	HCFM7X2	Server
Dell Inc.	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz	DELL - 0	CP-CIM-SRV-P	PowerEdge R440	HCFN7X2	Server
Dell Inc.	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz	DELL - 0	DC1	PowerEdge R440	HCFN7X2	Server
Dell Inc.	Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz	DELL - 0	DC2	PowerEdge R440	HCFN7X2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2630 0 @ 2.30GHz	DELL - 1	EM-OPCSRV-P	PowerEdge M620	1S4LCY1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5630 @ 2.53GHz	DELL - 1	FM-BACKUP-SRV	PowerEdge R510	8K9X5P1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	DELL - 1	MC-CIM-DEV-B	PowerEdge R410	872QBM1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5620 @ 2.40GHz	DELL - 1	MC-CIM-DEV-P	PowerEdge R410	B72QBM1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-CIM-ELECT-B	PowerEdge M630	C9QXKH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-CIM-ELECT-P	PowerEdge M630	B1RZIH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	DELL - 0	MC-CIM-METER-B	PowerEdge R630	9HHRKB2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	DELL - 0	MC-CIM-METER-P	PowerEdge R630	9HHQKB2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5450 @ 3.00GHz	DELL - 1	MC-CIM-NET-P	PowerEdge 2950	BH7HVVH1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-1B	PowerEdge M630	C9Q4LH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-1P	PowerEdge M630	F9W4ND2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-2B	PowerEdge M630	C9QYKH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-2P	PowerEdge M630	F9W0ND2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-3B	PowerEdge M630	C9Q5LH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-3P	PowerEdge M630	F9VZMD2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-4B	PowerEdge M630	C9PXKH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-4P	PowerEdge M630	F9W3ND2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-5B	PowerEdge M630	C9Q3LH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-5P	PowerEdge M630	F9W2ND2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-6B	PowerEdge M630	C9PWKH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-6P	PowerEdge M630	F9WWMD2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-7B	PowerEdge M630	C9QWKH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-7P	PowerEdge M630	F9W1ND2	Server

Utility Network PCs

Manufacturer	Processor	HWVersion	Name	Model	SerialNumber	Type
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-8B	PowerEdge M630	B1RYJH2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2637 v4 @ 3.50GHz	DELL - 0	MC-OPCSRV-8P	PowerEdge M630	F9WXM2D	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5649 @ 2.53GHz	DELL - 1	MC-PROFICY-SRV	PowerEdge R710	7NQY9R1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5640 @ 2.67GHz	DELL - 1	MC-SCCM-SRV	PowerEdge R710	11ZTBQ1	Server
Dell Inc.	Intel(R) Xeon(R) Gold 5122 CPU @ 3.60GHz	DELL - 0	PP-OPCSRV-B	PowerEdge M640	7JLNMR2	Server
Dell Inc.	Intel(R) Xeon(R) Gold 5122 CPU @ 3.60GHz	DELL - 0	PP-OPCSRV-P	PowerEdge M640	7JLPMR2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2620 v3 @ 2.40GHz	DELL - 0	UTILITIES-SRV	PowerEdge R630	9HGTKB2	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5530 @ 2.40GHz	DELL - 1	WP-CIM-SRV-B	PowerEdge M610	60Z5WW1	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5530 @ 2.40GHz	DELL - 1	WP-CIM-SRV-P	PowerEdge M610	50Z5WW1	Server
Unknown	NA	NA	CP-DATA-SRV-2	NA	NA	Server
Dell Inc.	Intel(R) Xeon(R) CPU E5-2630 0 @ 2.30GHz	DELL - 1	EM-OPCSRV-B	PowerEdge M620	1S3MCY1	Server
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	OD-FTV-16-CLT1	To Be Filled By O.E.M.	U653868	
Microsoft Corporation	Intel(R) Xeon(R) Gold 5122 CPU @ 3.60GHz	VRTUAL - 1	PP-FT-16-DIR1	Virtual Machine	6142-5254-6126-2930-5059-1417-45	
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FT-16-EWS1	To Be Filled By O.E.M.	U696274	
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FTV-16-CLT3	To Be Filled By O.E.M.	U696276	
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FTV-16-CLT4	To Be Filled By O.E.M.	U686620	
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FTV-16-CLT7	To Be Filled By O.E.M.	U696275	
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FTV-16-SRV1	To Be Filled By O.E.M.	U686616	Server
To Be Filled By O.E.M.	Intel(R) Core(TM) i5-6500TE CPU @ 2.30GHz	ALASKA - 1072009	PP-FTV-16-SRV2	To Be Filled By O.E.M.	U686618	Server
Dell Inc.	Intel Pentium III Xeon processor	DELL - 15	PP-CLIENT12	OptiPlex 755	DJTXDH1	
Unknown	NA	NA	PP-CLIENT-14	NA	NA	
Dell Inc.	Intel(R) Xeon(R) CPU E5-1603 0 @ 2.80GHz	DELL - 6222004	PP-CLIENT-15	Precision T3600	B6MZ942	
Dell Inc.	Intel(R) Pentium(R) 4 CPU 3.00GHz	DELL - 7	PP-CLIENT18	OptiPlex GX280	5Q7GH71	
Dell Inc.	Intel(R) Pentium(R) 4 CPU 3.00GHz	DELL - 7	PP-CLIENT32	OptiPlex GX280	JJWCT71	
Dell Inc.	Intel Pentium II processor	DELL - 15	PP-FM-RSVIEW	OptiPlex 980	1ZKNLN1	
Dell Computer Corporation	Intel(R) Pentium(R) 4 CPU 3.00GHz	DELL - 7	PP-LOGMATE	OptiPlex GX270	JSR1041	
Dell Inc.	Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz	DELL - 14	PP-RS-WORKS	OptiPlex 745	8T0QDF1	
Unknown	NA	NA	PP-SSNET-PP	NA	NA	
Dell Inc.	Intel Pentium III Xeon processor	DELL - 15	PP-UIOWA-10	Precision WorkStation T3500	B2MX3V1	
Dell Inc.	Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz	DELL - 14	PP-UIOWA11	OptiPlex 745	48YR6D1	
Dell Inc.	Intel(R) Pentium(R) II processor	DELL - 15	PP-RSVIEW-SRV	OptiPlex 980	2X28PN1	Server
Unknown	NA	NA	BN-AUX-UTIL-SRV	NA	NA	

Utility Network PCs

Manufacturer	Processor	HWVersion	Name	Model	SerialNumber	Type
Unknown	NA	NA	BN-CIM-DEV-P	NA	NA	
Unknown	NA	NA	TEstComp	NA	NA	

PCs and Laptops

PC Name	AD Container
FM11-MSBURNET	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM12LT-NEWKIRK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM12LT-TSLAUBAU	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM14-PP-FORCIER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-AIM-WALTON	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM15-BFISH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Management/
FM15-GRPATERS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM15LT-DOLLENDI	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM15-MECH-DIST	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM15-MSSB-100B	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM15-MSSB-133C	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM15-MSSB-153	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM15-NEYSTUDENT	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM15-NWCWPOPS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM15-PKUMAR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM15-PP-JTGREIN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-PP-KLEFLR2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-PP-PARTREC	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-PP-TURBRM0	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-PP-TURBRM4	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-PP-TURBRM5	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM15-RANY5	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM15-USB320-10	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM16-ENGINERCTR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM16-LT-DOLLEND	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM16LT-MCANDREW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM16-MMAXWELL	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-MMHEFFER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM16-MMOHN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM16-MRCRAIG	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM16-MSSB-123	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM16-MSSB-129	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM16-MSSB-129B	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM16-MSSB-129C	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM16-MSSB-133	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM16-PP-CTRLRM1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-PP-ENGRAV	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-PP-ENGSTU3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-PP-TURBRM2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-PPWATERLAB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM16-SYCHRAA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM16-TSLAUBAU	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM16-WP-DMCCLAI	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM16-WP-SURF	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-CROBE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM17-DMARCH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM17-DMCCLAIN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-DMCCLAIN2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-EESTROUD	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-HVAC-BSB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/

PCs and Laptops

PC Name	AD Container
FM17-HVAC-CHA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-CMAB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-DSB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-ECC	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-EMRB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-FOF	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-GALC	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-HLHS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-KHF	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-ML	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-MTF	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-PBB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-RNEW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-TSLAU	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-HVAC-USB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM17-KOS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM17-LDENISON	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM17LT-MLBRWN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM17LT-PP-PLAN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17LT-SRHARPER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM17LT-THULSE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM17-MCANDREW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM17-MRMILLER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17-MSSB-133B	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM17-NCWP-OPS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-PP-CTRLRM3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17-PP-ENGNEW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17PP-IGLESIAS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17-PPREFRM-WP	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17-PPSTUDENT3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM17-PSEYDEL	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM17-RMULLIN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-WCWP2-LAB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-WCWP-BRKRM	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-WCWPBRKRM1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-WCWP-OPS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM17-WP-112A	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-WP-112B	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-WP-112C	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/

PCs and Laptops

PC Name	AD Container
FM17-WP-BWEYERS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM17-WP-TMETZ	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM18-BSWEARIN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-CRWC-170C	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM18-CWPBRNDT	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM18-DBREAM	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM18-DMCCLAIN3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM18-DOLLENDI	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM18-DOPPELT	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM18-DPLANK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM18-ECC5	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM18-GVANDUSS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM18-HVAC-ITF1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM18-HVAC-ITF2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM18-JANDRUS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM18-JBERGERU	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-JKKOHLER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM18-KDGRIFITH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-KROSSMANN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM18-LGERONZIN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18LT-BLANDRSON	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM18LT-DCHAHN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM18LT-DOPPELT	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM18LT-JSCHAAK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18LT-KROSSMAN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM18LT-MIGLECIA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18LT-MSBURNET	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM18LT-NEWKIRK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM18LT-PP-PLAN2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18LT-SYCHRAA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM18LT-TSLAUBAU	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM18-MMULLINK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM18-MSSB-129	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM18-MSSB-135	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM18-PBB-W192A	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM18-PP-CONAWY	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-PP-JSCHWAR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-PP-OAKDALE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-PP-STUDNT0	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-PP-STUDNT1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-PP-TURBRM1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-RANY	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Management/
FM18-TDAHYA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM18-WEYER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM18-WP-CONFRM	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM18-WP-CONFRM2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM19-BLANDRSON	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM19-BPFISH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Management/
FM19CW-AVANETTE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM19-CWPNETOLCK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Chiller Plants/
FM19-ECC-1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/

PCs and Laptops

PC Name	AD Container
FM19-ECC-2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM19-ECC-3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM19-ECC-4	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM19-ECFORESM	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19-GMOWERY	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19-HVAC-MTF-D	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM19-IGRONSTA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19-JCITOOLS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM19LT-BENANDE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19LT-DRMCCLAI	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM19LT-MLBRWN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/CE Laptops/
FM19LT-PELZE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM19LT-RFORMAN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM19LT-SMCKNIGH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM19-PKUMAR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19-PP-COALSH	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-CTRLRM2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-ENGSTU4	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-JFORD	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PPJSCHAACK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-KLEFLR2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PPMCKNIGHT	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-RLLANE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-STUDNT2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-PP-TURBRM3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM19-SKOTTENS	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM19-WP-H2OLAB	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM19-WP-SASLEE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM-7-CONTRLENG	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/
FM-7-CSTIEGLITZ	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-7-ECCRACK	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM-7-GMOWERY	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Management/
FM-7-LT-ED-LOCA	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Electric Distribution/
FM-7-LT-GRPATER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Energy Control Center/
FM-7-LT-JEPAUL	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM-7-LT-SASLEE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Water Plant/
FM7LT-STEAMTR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/
FM-7-METERSMGR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Meters & Controls/
FM-7-MSSB123CW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Mechanical Distribution/
FM-7-PP-BRKR1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Power Plant/
FM-7-RLAHR	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-JCI-1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-JCI-2	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-JCI-3	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-RN-Test-GIS1	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/
FM-SARNE-TEST	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Andover Workstations/

PCs and Laptops

PC Name	AD Container
FM-VM-DCHAHN	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-DOLLENDI	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-MCANDREW	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-MSBURNET	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-SELLNER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-SRHARPER	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/
FM-VM-THULSE	iowa.uiowa.edu/Finance and Operations/Facilities Management/WS/Utilities/Controls Engineering/Building Controls/

Part 24: Improvements and Equipment

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLB SUBSTATION	Boyd Law Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
BSB SUBSTATION	Bowen Science Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
BT EAST SUBSTATION	Boyd Tower East Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
BT WEST SUBSTATION	Boyd Tower West Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
CBRB SUBSTATION	Carver Biomedical Research Building Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
CHA SUBSTATION	Carver Hawkeye Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
CNB SUBSTATION	College of Nursing Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
DSB SUBSTATION	Dental Science Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
ED-VAULTSWEST	Substation U (West) Electrical Vaults	ED-SYSTEM	ELECTRICAL VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
EMRB SUBSTATION	Eckstein Medical Research Building	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
FOF SUBSTATION	Indoor Practice Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
GRAND AVE	Grand Ave Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
HILLCREST SUBSTATION	Hillcrest Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
HLHS SUBSTATION	Hardin Library Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
HOSPITAL DOCK	Hospital Dock Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
JAB SUBSTATION	Jacobson Athletic Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
JCP EAST SUBSTATION	Colloton Pavillion East Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
JCP WEST SUBSTATION	Colloton Pavillion West Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
JPP EAST	Pappajohn Pavillion East Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
JPP WEST SUBSTATION	Pappajohn Pavillion West Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
KINNICK SUBSTATION	Kinnick Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP B	Substation U Loop B	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP C	Substation U Loop C	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP D	Substation U Loop D	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP E	Substation U Loop E	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP F	Substation U Loop F	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP O	Substation U Loop O	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP P	Substation U Loop P	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP Q	Substation U Loop Q	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP R	Substation U Loop R	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
LOOP S	Substation U Loop S	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
MAPF SUBSTATION	Melrose Ave Parking Facility (Ramp 4) Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
MRC SUBSTATION	Medical Research Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
MRF SUBSTATION	Medical Research Facility Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
NWCP SUBSTATION	Northwest Chiller Plant Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
PBDB SUBSTATION	Pappajohn Biomedical Discovery Building Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
PC SUBSTATION	Pomerantz Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
PETERSON SUBSTATION	Peterson Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
PFP SUBSTATION	Pomerantz Pavillion Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
PHAR SUBSTATION	Pharmacy Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
RCP SUBSTATION	Carver Pavilion Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
RIENOW SUBSTATION	Rienow Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
RMCD SUBSTATION	Ronald MacDonald Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SE HOSPITAL	SE Hospital Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SFCH SUBSTATION	Children's Hospital Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SHC SUBSTATION	Speech & Hearing Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SLATER SUBSTATION	Slater Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SUB U CAPACITOR	Substation U Capacitor	ED-SYSTEM	CAPACITOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
SUB U LOOP A	Substation U Loop A	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WCI	West Campus Interconnect	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WCP-Q SUBSTATION	West Chiller Plant Q Loop Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WCP-R SUBSTATION	West Chiller Plant R Loop Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WCP-S SUBSTATION	West Chiller Plant S Loop Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WEST CAMPUS	Lighting West Campus Exterior	ED-SYSTEM	LIGHTING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WEST CAMPUS	Transformers West Campus	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WEST HOSPITAL	West Hospital Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
WL SUBSTATION	Westlawn Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
390	SUBSTATION U	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Substation U
ABW SUBSTATION	Art Building West Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
AJB-BCSB SUBSTATION	Adler-Becker Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
BBE SUBSTATION	Biology East Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
BHC SUBSTATION	Blank Honors Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
BURGE SUBSTATION	Burge Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
CAT SUBSTATION	Catlett Residence Hall Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
CB SUBSTATION	Chemistry Building Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
COPH SUBSTATION	College of Public Health Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
CRWC SUBSTATION	Campus Recreation & Wellness Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
CURRIER SUBSTATION	Currier Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
EAST CAMPUS	Lighting East Campus Exterior	ED-SYSTEM	LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
EAST CAMPUS	Transformers East Campus	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
ED SHOP CLEAN	Electrical Distribution Shop MSSB	ED-SYSTEM		ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
ED TOOL SAFETY INSP	Electrical Distribution Tool Safety	ED-SYSTEM		ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
ED-VAULTS EAST	Substation L (East) Electrical Vaults	ED-SYSTEM	ELECTRICAL VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
EMB FEEDER	Substation L EMB Feeder	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
EPB SUBSTATION	English-Philosophy Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
GAS GENERATOR 1	Substation L Gas Generator 1 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
GAS GENERATOR 2	Substation L Gas Generator 2 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
GAS GENERATOR 3	Substation L Gas Generator 3 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
GAS GENERATOR 4	Substation L Gas Generator 4 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
HA SUBSTATION	Hancher Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
IATL SUBSTATION	Iowa Advanced Technology Laboratory Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
IMU SUBSTATION	Iowa Memorial Union Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
JEFFERSON ST	Jefferson St Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LC II SUBSTATION	Lindquist II Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LC SOUTH SUBSTATION	Lindquist South Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LCUA SUBSTATION	Levitt Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LIB SUBSTATION	Library Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LOOP H	Substation L Loop H	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LOOP I	Substation L Loop I	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LOOP J	Substation L Loop J	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LOOP K	Substation L Loop K	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
LOOP M	Substation L Loop M	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
MC TOOL SAFETY INSP	Meters and Controls Tool Safety	MC-SYSTEM		ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
MD TOOL SAFETY INSP	Mechanical Distribution Tool Safety inspections	MD-SYSTEM		ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
NCP SUBSTATION	North Chiller Plant Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
NCP-J SUBSTATION	Norther Chiller Plant J Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
NORTH PENTACREST	North Pentacrest Vault Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
OMA SUBSTATION	Old Art Museum Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
PBB SUBSTATION	John Pappajohn Business Building	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
PP ANNEX SUBSTATION	Power Plant Annex Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
SC SUBSTATION	Seamans Center Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
SH SUBSTATION	Schaeffer Hall Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
SL SUBSTATION	Sciences Library Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
STEAM GENERATOR 1	Substation L Steam Generator 1 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
STEAM GENERATOR 2	Substation L Steam Generator 2 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
STEAM GENERATOR 3	Substation L Steam Generator 3 Circuit	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
SUB L CAPACITOR	Substation L Capacitor	ED-SYSTEM	CAPACITOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
TB SUBSTATION	Theatre Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
USB SUBSTATION	University Services Building Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
VAB SUBSTATION	Visual Arts Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
VOX SUBSTATION	Voxman Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
WP SUBSTATION	Water Plant Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
426	SUBSTATION L	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Substation L
ED CABLE PULLER	Cable Pullers	ED-SYSTEM	TRAILERS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
EU-PORT-GEN-1	Caterpillar 400KW Model C15 DITA, S/N C5E01626. Emission Unit# EU-PORT-GEN-	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
EU-PORT-GEN-2	Cummins 300KW Model 300 DFCB, S/N L89002899844	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GENERATOR 1	Generator 1 "Old Yeller" Caterpillar,	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 10	Large Portable Generator 10	ED-SERIALIZED	GENERATORS	INACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 2	Generator 2 Cummins 300KW Model 300 DFCB, S/N L89002899844 Emmissions unit# EU-PORT-GEN-2	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 3	(CAT) Large Portable Generator 3 (Old Bio)	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 4	Generator 4 Caterpillar 400KW Model C15 DITA, S/N C5E01626 Emissions unit# EU-Port-Gen-1	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 5	Large Portable Magnum Generator 5	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 6	Large Portable Magnum Generator 6	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 7	Large Portable Magnum Generator 7	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 8	Large Portable Magnum Generator 8	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
GENERATOR 9	Large Portable Magnum Generator 9	ED-SERIALIZED	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
LT-1	Magnum Light tower 1	ED-SERIALIZED	LIGHTING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
LT-2	Magnum Light tower 2	ED-SERIALIZED	LIGHTING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
LT-3	Magnum Light tower 3	ED-SERIALIZED	LIGHTING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
LT-4	Magnum Light tower 4	ED-SERIALIZED	LIGHTING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
MAGNUM GENERATORS	Magnum Generators	ED-SYSTEM	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
MAGNUM LIGHTS	Magnum Lights	ED-SYSTEM	LIGHTING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
PORTABLE GENERATORS	Small Portable Generators	ED-SYSTEM	GENERATORS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
51198	0840-UNIV. HOSPITAL SCHOOL-TRSFMR-0001 : ELECTRICAL DISTRIBUTION UNIV. HOSPITAL SCHOOL TRANSFORMER 0001	SERIALIZED	TRANSFORMER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Electrical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603019	Flood Pump 6" 603019	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
FLOOD PUMP 6" 603020	Flood Pump 6" 603020	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603022	Flood Pump 6" 603022	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603023	Flood Pump 6" 603023	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603895	Flood Pump 6" 603895	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603896	Flood Pump 6" 603896	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603897	Flood Pump 6" 603897	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 603898	Flood Pump 6" 603898	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 604231	Flood Pump 6" 604231	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 604237	Flood Pump 6" 604237	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 6" 604439	Flood Pump 6" 604439	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603021	Flood Pump 8" 603021	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603024	Flood Pump 8" 603024	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603025	Flood Pump 8" 603025	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603026	Flood Pump 8" 603026	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603027	Flood Pump 8" 603027	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603028	Flood Pump 8" 603028	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603899	Flood Pump 8" 603899	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603900	Flood Pump 8" 603900	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603901	Flood Pump 8" 603901	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 603902	Flood Pump 8" 603902	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
FLOOD PUMP 8" 604238	Flood Pump 8" 604238	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
FLOOD PUMP 8" 604239	Flood Pump 8" 604239	MD-SERIALIZED	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
GODWIN FLOOD PUMPS	Godwin Flood Pumps Parent Asset	MD-SYSTEM	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
PRESRAY BULKHEAD DOORS	Presray Bulkhead Doors	MD-SYSTEM	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
REFUELING TRAILER	Refueling Trailer	MD-SYSTEM	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
SEMI TRAILERS	Semi Trailers	MD-SYSTEM	FLOOD EQUIPMENT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Mechanical Distribution (Campus Wide - generators)
843	Chilled Water Utility Enterprise Systems	PROPERTY	BUILDINGS	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
43392	Mechanical Distribution Area 3 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
43393	Mechanical Distribution Area 1 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
43394	Mechanical Distribution Area 2 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
44712	Mechanical Distribution Area 6 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
44713	Mechanical Distribution Area 4 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
44714	Mechanical Distribution Area 5 Chilled Water Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55120	Chilled Water Air Compressor : Chilled Water Plant Air Compressors	SERIALIZED	COMPRESSOR AIR	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55121	Chilled Water Building Interface : Chilled Water Plant Building Interfaces	SERIALIZED	VALVE CONTROL	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55122	Chilled Water Meter/Hardware : Chilled Water Plant Meters	SERIALIZED	WATER METER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55123	Chilled Water Pumps : Chilled Water Plant Pumps	SERIALIZED	PUMP	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55124	Chilled Water Steam System : Chilled Water Plant Steam Piping	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55130	Chilled Water Storage : Chilled Water Plant Storage System	SERIALIZED	TANK	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55131	Chilled Water Condenser Pumps : Chilled Water Plant Water Condenser	SERIALIZED	PUMP	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55132	Chilled Water Cooling Towers : Chilled Water Plant Cooling Towers	SERIALIZED	COOLING TOWER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55133	Chilled Water Electric Chiller : Chilled Water Plant Electric Chillers	SERIALIZED	CHILLER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55134	Chilled Water Filtration : Chilled Water Plant Filtration System	SERIALIZED	FILTER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55135	Chilled Water Electrical : Chilled Water Plant Electrical System	SERIALIZED	CHILLED WATER ELECTRICAL	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55136	Chilled Water Plumbing : Chilled Water Plant Plumbing System	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55137	Chilled Water Refrigeration : Chilled Water Plant Refrigeration System	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55138	Chilled Water Chemical System : Chilled Water Plant Chemical Systems	SERIALIZED	TANK CHEMICAL	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55139	Chilled Water Cooling System : Chilled Water Plant Cooling System	SERIALIZED	CHILLER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55140	Chilled Water Heating System : Chilled Water Plant Heating System	SERIALIZED	HEATER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55141	Chilled Water Plate and Frame : Chilled Water Plant Plate and Frame System	SERIALIZED	HEAT EXCHANGER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55142	Chilled Water Steam Chiller : Chilled Water Plant Steam Chillers	SERIALIZED	CHILLER	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55960	Chilled Water Safety Device : Chilled Water Plant Safety Devices	SERIALIZED	SAFETY DEVICE	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
55961	Chilled Water Ladder and Lifts : Chilled Water Plant Ladders and Lifts	SERIALIZED	LADDER / LIFT DEVICE	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
56031	Chilled Water Mechanical Distribution : Chilled Water Distribution Network Main Campus	SERIALIZED	PIPING	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
56045	Chilled Water Computing/Software/Controls : Chilled Water Plant	SERIALIZED	CONTROL UNIT	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
56930	Chilled Water Generator : Chilled Water Plant Generators	SERIALIZED	GENERATOR	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
57456	Support Equipment and Tools for Chilled Water System	SERIALIZED	SYSTEM	ACTIVE	CAMPUS WIDE	CAMPUS WIDE	Chilled Water Utility Enterprise System
CWMTR 111	CWMTR 111, Building #0021, Art Building Replacement	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Art Building
CWMTR 111	CWMTR 111, Building #0021, Art Building Replacement	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Art Building
CWMTR 45	CWMTR 45, Building #0018, Old Biology, New Biology Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Biology Building
CWMTR 45	CWMTR 45, Building #0018, Old Biology, New Biology Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Biology Building
CWMTR 27	CWMTR 27, Building #0448, Biology East, Room with Big Air Compressor in it	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Biology Building East

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CWMTR 27	CWMTR 27, Building #0448, Biology East, Room with Big Air Compressor in it	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Biology Building East
CWMTR 6	CWMTR 6, Building #0204, Bowen Science, Basement of Bowen Science	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Bowen Science Building
CWMTR 6	CWMTR 6, Building #0204, Bowen Science, Basement of Bowen Science	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Bowen Science Building
CWMTR 4	CWMTR 4, Building #0343, Boyd Tower, Boyd Tower Mechinal Room East Wall	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Boyd Tower
CWMTR 4	CWMTR 4, Building #0343, Boyd Tower, Boyd Tower Mechinal Room East Wall	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Boyd Tower
CWMTR 20	CWMTR 20, Building #0073, Burge Hall, Storage area by PLC	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Burge Hall
CWMTR 20	CWMTR 20, Building #0073, Burge Hall, Storage area by PLC	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Burge Hall
CWMTR 87	CWMTR 87, Building #0068, CRWC, CRWC Machine Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Camp Rec & Wellness Ctr
CWMTR 87	CWMTR 87, Building #0068, CRWC, CRWC Machine Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Camp Rec & Wellness Ctr
CWMTR 67	CWMTR 67, Building #0455, CBRB Summer	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Carver Biomedical Research Bldg
CWMTR 67	CWMTR 67, Building #0455, CBRB Summer	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Carver Biomedical Research Bldg
CWMTR 10	CWMTR 10, Building #0359, Carver Pavilion, By PLC	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Carver Pavilion
CWMTR 10	CWMTR 10, Building #0359, Carver Pavilion, By PLC	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Carver Pavilion
CWMTR 19	CWMTR 19, Building #0003, Chem-Bot, North Stairway Penthouse	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Chemistry Building
CWMTR 19	CWMTR 19, Building #0003, Chem-Bot, North Stairway Penthouse	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Chemistry Building
CWMTR 97	CWMTR 97, Building #0400, Childrens Hospital, none	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Children's Hospital
CWMTR 97	CWMTR 97, Building #0400, Childrens Hospital, none	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Children's Hospital
CWMTR 97	CWMTR 97, Building #0400, Childrens Hospital, none	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Children's Hospital
314	2A Chilled Water Plant	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17082	BFP - Center, Near Orange Tanks and	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17083	Backflow Preventor - Northeast End,	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17084	BFP - Northeast Tunnel	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17085	BFP - In Tunnel	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17086	BFP - Northeast Wall, Loft, Up Stairs, 2'	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
17087	BFP - Northeast Wall, Main Floor, 2' Up	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17088	BFP - Southwest Corner, Lower of Two	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17089	BFP - Southwest Corner	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17090	BFP - Southwest Corner Near Wall, One	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
17091	BFP - Southwest Corner Near Wall, One	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43527	West Plant Centravac #1 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43528	Chilled Water Distribution Pump #45	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43529	Chilled Water Distribution Pump #46	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43530	Condenser Water Pump #13	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43531	West Plant OM #6 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43532	Supply Air Receiver #1	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43533	West Plant OM #5 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43534	West Plant Centravac #1 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43535	West Plant YK #4 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43536	West Plant YK #3 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43537	CW Storage Pump #33	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43538	West Plant OM #1 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43539	CW Storage Pump #34	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43540	Chilled Water Circulation Pump #44	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43541	West Plant Centravac #2 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43542	West Plant OM #2 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43543	Air Dryer #2	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43544	Air Dryer #1	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43545	Supply Air Receiver #2	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43546	West Plant YK #4 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43547	West Plant OM #2 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43548	West Plant OM #1 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43549	Cooling Tower #1	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43550	Cooling Tower #2	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43551	Cooling Tower #3	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43552	Cooling Tower #4	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43553	Cooling Tower #5	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43554	Cooling Tower #6	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43556	West Plant OM #5 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43557	Condenser Water Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43558	Refrigerant Recovery Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43560	West Plant OM #6 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43561	Condenser Water Pump #17	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43562	Chilled Water Distribution Pump #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43563	Chilled Water Distribution Pump #3	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43564	Condensate Receiver Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43565	West Plant Centravac #2 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43566	Chilled Water Make Up Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43567	Chilled Water Circulation Pump #43	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43568	Condenser Water Pump #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43569	Chilled Water Circulation Pump #11	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43570	Chilled Water Circulation Pump #11A	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43571	Chilled Water Circulation Pump #11B	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43572	Chilled Water Distribution Pump #26	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43573	Condenser Water Pump #42	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43574	Condensate Receiver Pump #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43575	Condenser Water Pump #41	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43576	Chilled Water Distribution Pump #12	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43577	Chilled Water Distribution Pump #25	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43578	Chilled Water Circulation Pump #24	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43579	Chilled Water Circulation Pump #23	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43580	Condenser Water Pump #22	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43581	Condenser Water Pump #21	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43582	Chilled Water Distribution Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43583	Condenser Water Pump #14	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43584	West Plant YK #3 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43585	Chilled Water Distribution Pump #12B	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
43586	Chilled Water Distribution Pump #12A	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57466	West Chiller Cooling Tower 1 and 2 Water Treatment	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57467	West Chiller Cooling Tower 3 and 4 Water Treatment	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57468	West Chiller Cooling Tower 5 and 6 Water Treatment	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57470	West Chiller Plants Multimedia Filter Water Treatment	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57556	Building Wide - Controls, HVAC	SYSTEM	HVAC CONTROLS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57908	West Plant 1 Air Compressor #1	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57909	West Plant 1 Air Compressor #2	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57988	West Plant OM #1 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57991	West Plant OM #2 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57992	West Plant YK #3 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57993	West Plant YK #4 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57994	West Plant Centravac #1 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57997	West Plant Centravac #2 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
57999	West Plant OM #5 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58000	West Plant OM #6 Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58005	West Plant Refrigerant Recovery/Transfer System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
58006	West Plant Water Piping	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58007	West Plant Steam Piping	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58008	West Plant Air Piping	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58011	West Plant Chemical Feed System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58015	West Plant DCS and PLC Control Systems	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58025	West Plant Building, HVAC, Equipment and Grounds	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58026	West Plant OM #1 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58029	West Plant OM #2 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58030	West Plant YK #3 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58031	West Plant YK #4 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58032	West Plant Centravac #1 Chiller	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58033	West Plant Centravac #2 Chiller	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58034	West Plant OM #5 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58035	West Plant OM #6 Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58036	West Plant OM #1 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58037	West Plant OM #2 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58038	West Plant YK #3 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58039	West Plant YK #4 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58040	West Plant Centrivac #1 Chiller Drive	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58041	West Plant Centravac #2 Chiller Drive	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58042	West Plant OM #5 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58043	West Plant OM #6 Chiller Drive Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58056	West Plant OM #1 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58057	West Plant OM #2 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58058	West Plant YK #3 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58059	West Plant YK #4 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58060	West Plant Centravac #1 Controls : 314-CENTRAVAC1-CONTROLS-0001	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58061	West Plant Centravac #2 Controls : 314-CENTRAVAC2-CONTROLS-0001	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58062	West Plant OM #5 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58063	West Plant OM #6 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58264	West Plant Free Cool Heat Exchanger #1	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58266	West Plant Free Cool Heat Exchanger #2	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58267	West Plant Storage Heat Exchanger #1	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
58268	West Plant Storage Heat Exchanger #2	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
59571	West Plant Chilled Water Storage	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
60331	CW Storage Pump #31	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
60333	CW Storage Pump #32	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
60801	Fire Safety Inspection (1), 0314 CWP1	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
60802	Fire Sprinkler System, 0314 CWP1	SERIALIZED	FIRE SUPPRESSION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1

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60815	Fire Sprinkler Valves (1), 0314 CWP1	SERIALIZED	FIRE SUPPRESSION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
65584	Chilled Water Building Interface Systems	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
65693	Loop	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
66697	Fan Coil Filters, System, 0314 ITS Fan Coil Units at Chilled Water Plant	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 1
0308-VT-T85	GE VaporTran Transformer T85 Feeds West Chilled Water Plant	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
308	1B Chilled Water Plant	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
0308-VT-T85	GE VaporTran Transformer T85 Feeds West Chilled Water Plant	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17075	BFP - Southeast Entrance	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17076	BFP - Basement New Addition - Far	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17077	BFP - Basement New Addition - Far	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17078	BFP - Basement Level New Section	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17079	BFP - Basement Level New Section	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17080	BFP in Basement Near Stairway Entr,	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
17081	BFP in Basement, West Corner, Near Stairway Entr	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43491	1B Plant Cooling Tower 7B	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43492	1B Plant Chiller #8 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43493	1B Plant Chiller #8 Surface Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43495	1B Plant Chiller #7 Surface Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43496	1B Plant Condenser Water Pump #9	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43497	1B Plant Chilled Water Distribution	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43498	1B Plant Chilled Water Distribution	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43499	1B Plant Chiller #9 Surface Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43500	1B Plant Cooling Tower 7A	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43501	1B Plant Chilled Water Distribution	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43502	1B Plant Cooling Tower 8A	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43503	1B Plant Cooling Tower 8B	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43504	1B Plant Chiller #7 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43507	1B Plant Chilled Water Distribution	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43508	1B Plant Air Dryer System	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43511	1B Plant Domestic Water Booster Pump	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43513	1B Plant Chilled Water Expansion Tanks	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43516	1B Plant Condenser Water Pump #7	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43518	1B Plant Chiller #9 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43520	1B Plant Air Receiver Tanks	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
43524	1B Plant Condenser Water Pump #8	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
52510	Passenger Elevator CWP2, 255 Hawkins	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57469	1B Plant Chemical Feed System	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57614	Building Wide - Controls, HVAC	SYSTEM	HVAC CONTROLS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
57895	1B Plant Refrigerant Recovery/Transfer System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57896	1B Plant Condensate Receiver System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57898	1B Plant Chiller #7 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57899	1B Plant Chiller #7 Steam Turbine	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57900	1B Plant Chiller #7 Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57910	1B Plant Chiller #8 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57911	1B Plant Chiller #8 Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57912	1B Plant Chiller #8 Steam Turbine	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57914	1B Plant Chiller #9 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57916	1B Plant Chiller #9 Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57917	1B Plant Chiller #9 Steam Turbine	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57918	1B Plant Air Compressor	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57919	1B Plant Air Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57920	1B Plant Steam Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57923	1B Plant Water Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57926	1B Plant Chiller #7 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57927	1B Plant Chiller #8 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57928	1B Plant Chiller #9 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
57936	Fire Alarm Batteries, 0308 CWP2 (West)	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58014	1B Plant DCS and PLC Control Systems	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58017	1B Plant Chilled #7 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58018	1B Plant Chiller #8 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58019	1B Plant Chiller #9 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58023	1B Plant Building, HVAC, Equipment and Grounds	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58095	Fire Sprinkler System, 0308 CWP2	SERIALIZED	FIRE SUPPRESSION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58255	Fire Safety Inspection (1), 0308 CWP2	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
58553	Fire Alarm System, 0308 CWP2	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
60196	Door Access, System, 0308 Building Wide Door Access System	SYSTEM	DOOR ACCESS , BUILDING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
60285	Emergency Siren, 0308 CWP2	SERIALIZED	WHISTLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
60380	1B Plant 7A & 7B Side Stream Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
60381	1B Plant 8A & 8B Side Stream Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
60522	Access Control Battery, System, 0308 Power Supply Battery for Access	SYSTEM	DOOR ACCESS , BUILDING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
64793	Electric System	SYSTEM	ELECTRICAL SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
64822	Chilled Water Building Interface Systems	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
64943	1B Plant Cooling Tower 9	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
65361	Emergency Lights, System, 0308 Building Wide Emergency and Exit Lighting	SYSTEM	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)

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65630	Smoke Detectors, 0308 CWP2	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
65694	Loop	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
66093	Kohler Diesel Generator	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
66695	Fan Coil Filters, System, 0308 ITS Fan Coil Units at Chilled Water Plant	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Chilled Water Plant 2 (West)
CWMTR 9	CWMTR 9, Buliding # 0375, Colloton Pavilion, By Genius Cabnet	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Colloton Pavilion
CWMTR 9	CWMTR 9, Buliding # 0375, Colloton Pavilion, By Genius Cabnet	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Colloton Pavilion
CWMTR 16	CWMTR 16, Building #0278, Dental North, Basement Mechinal Room East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Dental Science Building
CWMTR 17	CWMTR 17, Building #0278, Dental South, Basement Mechinal Room East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Dental Science Building
CWMTR 16	CWMTR 16, Building #0278, Dental North, Basement Mechinal Room East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Dental Science Building
CWMTR 17	CWMTR 17, Building #0278, Dental South, Basement Mechinal Room East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Dental Science Building
CWMTR 18	CWMTR 18, Building #0401, EMRB, Basement Mechinal Room by Chiller and	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Eckstein Medical Research Bldg
CWMTR 18	CWMTR 18, Building #0401, EMRB, Basement Mechinal Room by Chiller and	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Eckstein Medical Research Bldg
CWMTR 83	CWMTR 83, Building #0031, ETC, Not in	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	General Hospital
CWMTR 83	CWMTR 83, Building #0031, ETC, Not in	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	General Hospital
CWMTR 42	CWMTR 42, Building #0120, Hancher, Basement Mechinal Room between Chiller and ITS Phone Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hancher
CWMTR 42	CWMTR 42, Building #0120, Hancher, Basement Mechinal Room between Chiller and ITS Phone Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hancher
65645	WATER-VALVE, SB, 0412 WATER VALVE THAT FEEDS HOSPITAL RAMP 3 WATER SPIGOTS LOCATION: SUB BASEMENT NOTE: CONTACT CHUCK WENO, MECH DIST., 319.631.6019	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hosp Parking Ramp 3
65644	WATER-VALVE, B118, 0403 WATER VALVE THAT FEEDS HOSPITAL RAMP 2 WATER SPIGOTS LOCATION: B118, MECHANICAL AREA	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hospital Parking Ramp 2

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
65646	WATER-VALVE, SB7, 0433 WATER VALVE THAT FEEDS HOSPITAL RAMP 4 WATER SPIGOTS LOCATION: STORAGE LOWER LEVEL 2	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hospital Parking Ramp 4
65661	WATER-VALVE, L109, 0433 WATER VALVE THAT FEEDS HOSPITAL RAMP 4 WATER SPIGOTS LOCATION: L109, STORAGE ROOM	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Hospital Parking Ramp 4
CWMTR 36	CWMTR 36, Building #0418, IATL (Laser), IALH Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Iowa Advanced Tech Lab
CWMTR 36	CWMTR 36, Building #0418, IATL (Laser), IALH Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Iowa Advanced Tech Lab
CWMTR 14	CWMTR 14, Building #0046, IMU East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Iowa Memorial Union
CWMTR 80	CWMTR 80, Building #0042, Kinnick	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Kinnick Stadium
CWMTR 80	CWMTR 80, Building #0042, Kinnick	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Kinnick Stadium
CWMTR 30	CWMTR 30, Building #0136, Library, In Mechinal Room past Genius Cabinet	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Main Library
CWMTR 30	CWMTR 30, Building #0136, Library, In Mechinal Room past Genius Cabinet	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Main Library
CWMTR 40	CWMTR 40, Building #0447, MERF, MEBARF Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Education Research Fac
CWMTR 40	CWMTR 40, Building #0447, MERF, MEBARF Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Education Research Fac
CWMTR 2	CWMTR 2, Building #0028, Med Labs Courtyard, In Med Labs Court Yard	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Laboratories
CWMTR 3	CWMTR 3, Building #0028, Med Labs, Med Labs Hallway	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Laboratories
CWMTR 2	CWMTR 2, Building #0028, Med Labs Courtyard, In Med Labs Court Yard	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Laboratories
CWMTR 3	CWMTR 3, Building #0028, Med Labs, Med Labs Hallway	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Laboratories
14735	CRF-G8, XB060S, 0028 COMPRESSOR FOR WALK IN COOLER, MORGUE RM B062 LOCATION: HOSPITAL HALL, SOUTH SIDE, BETWEEN B058/B061 DOORS, JUST BELOW CEILING. FORMERLY: 028-XB060S-TS-CRF-G8	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Medical Laboratories
CW INTERFACE-MAIN	CW Interface - Main Campus	MC-SYSTEM	CW INTERFACES	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
CW METERS-MAIN	CW Interface - Main Campus	MC-SYSTEM	CW METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
ELEC MTR/HARDWARE MAIN	ELECTRIC METERING AND HARDWARE - MAIN CAMPUS	MC-SYSTEM	ELEC METERING/HARDWARE	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR AB_P184	Electric Meter 184, AB_P184, Building AB, Location- T146	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ABW_L390	Electric Meter 390, ABW_L390, Building ABW, Location- secondary electrical room in basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ABW_P389	Electric Meter 389, ABW_P389, Building ABW, Location- ABW primary transformer vault TX-43	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR AJB_P002	Electric Meter 2, AJB_P002, Building AJB, Location- Adler	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR B_P004	Electric Meter 4, B_P004, Building B, Location- Burge Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR B_P005	Electric Meter 5, B_P005, Building B, Location- Burge Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR B_S006	Electric Meter 6, B_S006, Building B, Location- Burge Hall North Wall thru Mech. Walk Run to outside area	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR B_S007	Electric Meter 7, B_S007, Building B, Location- Burge Hall South Wall Mech.	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR B_S008	Electric Meter 8, B_S008, Building B, Location- Burge Hall thru. Res. Serves	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BB_P009	Electric Meter 9, BB_P009, Building BB, Location- Biology Building Sub T-105	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BB_S010	Electric Meter 10, BB_S010, Building BB, Location- Biology outside under grate	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BB_S011	Electric Meter 11, BB_S011, Building BB, Location- Biology outside under grate	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BBE_P012	Electric Meter 12, BBE_P012, Building BBE, Location- Biology Addition Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BCSB_L187	Electric Meter 187, BCSB_L187, Building BCSB, Location- Communication Studies Building Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BCSB_L188	Electric Meter 188, BCSB_L188, Building BCSB, Location- Communications	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BCSB_P001	Electric Meter 1, BCSB_P001, Building BCSB, Location- Tx Vault S.W Corner	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BHC_L015	Electric Meter 15, BHC_L015, Building BHC, Location- Honors Center	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BHC_P014	Electric Meter 14, BHC_P014, Building BHC, Location- Honors Center	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BLB_L189	Electric Meter 189, BLB_L189, Building BLB, Location- Basement Law Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR BLB_L190	Electric Meter 190, BLB_L190, Building BLB, Location- Basement Law Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BLB_L191	Electric Meter 191, BLB_L191, Building BLB, Location- Basement of Law Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BLB_P192	Electric Meter 192, BLB_P192, Building BLB, Location- Law Building T157 East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BLB_P193	Electric Meter 193, BLB_P193, Building BLB, Location- Law Building T158 East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSB_P272	Electric Meter 272, BSB_P272, Building BSB, Location- T30 Basement BSB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSB_P273	Electric Meter 273, BSB_P273, Building BSB, Location- T32 Basement BSB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSB_P274	Electric Meter 274, BSB_P274, Building BSB, Location- T46 Basement BSB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSB_P275	Electric Meter 275, BSB_P275, Building BSB, Location- T47 Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSL_L017	Electric Meter 17, BSL_L017, Building BSL, Location- T105 Biological Science	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BSL_S016	Electric Meter 16, BSL_S016, Building BSL, Location- Biology Annex basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BT_L278	Electric Meter 278, BT_L278, Building BT, Location- T54 East Wall Boyd Tower	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BT_P276	Electric Meter 276, BT_P276, Building BT, Location- Boyd Tower East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BT_P277	Electric Meter 277, BT_P277, Building BT, Location- Boyd Tower East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR BT_P279	Electric Meter 279, BT_P279, Building BT, Location- T54 West Side Boyd Tower	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR C_P018	Electric Meter 18, C_P018, Building C, Location- Currier Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR C_P019	Electric Meter 19, C_P019, Building C, Location- Currier Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CALH_P020	Electric Meter 20, CALH_P020, Building CALH, Location- Calvin Hall T59 North	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CAT_P494	Electric Meter 494, CAT_P494, Building CAT, Location- Catlett Tx. Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CB_L021	Electric Meter 21, CB_L021, Building CB, Location- Chemistry First Floor	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CB_P025	Electric Meter 25, CB_P025, Building CB, Location- Chemistry NW Corner	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CB_P026	Electric Meter 26, CB_P026, Building CB, Location- Chemistry NW Corner	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR CB_S022	Electric Meter 22, CB_S022, Building CB, Location- Chemistry U of I Phone	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CB_S023	Electric Meter 23, CB_S023, Building CB, Location- Chemistry U of I Phone	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CB_S024	Electric Meter 24, CB_S024, Building CB, Location- Chemistry Building Secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CBRB_P280	Electric Meter 280, CBRB_P280, Building CBRB, Location- CBRB Carver Biological Research Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CBRB_P281	Electric Meter 281, CBRB_P281, Building CBRB, Location- CBRB Carver Biological Research Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CC_L033	Electric Meter 33, CC_L033, Building CC, Location- Old Communications Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CC_S028	Electric Meter 28, CC_S028, Building CC, Location- Engineering Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CDD_L194	Electric Meter 194, CDD_L194, Building CDD, Location- Hospital Machine Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CDD_L195	Electric Meter 195, CDD_L195, Building CDD, Location- Hospital School	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CDD_P196	Electric Meter 196, CDD_P196, Building CDD, Location- T2	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CH_P429	Electric Meter 429, CH_P429, Building CH, Location- sub station vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CH_P430	Electric Meter 430, CH_P430, Building CH, Location- sub station vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CH_P431	Electric Meter 431, CH_P431, Building CH, Location- sub station vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CHA_L198	Electric Meter 198, CHA_L198, Building CHA, Location- Arena Room 448 Upstairs	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CHA_L199	Electric Meter 199, CHA_L199, Building CHA, Location- Carver Hawkeye Arena	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CHA_L200	Electric Meter 200, CHA_L200, Building CHA, Location- Carver Hawkeye Arena	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CHA_P197	Electric Meter 197, CHA_P197, Building CHA, Location- Arena North Side T6	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CHA_S109	Electric Meter 109, CHA_S109, Building CHA, Location- Lot 75 Bus Shelter	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CLSB_L201	Electric Meter 201, CLSB_L201, Building AP, Location- 700 S. Clinton SW	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CPB_P503	Electric Meter 503, CPB_P503, Building CPB, Location- CPB Outside Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR CPHB_L392	Electric Meter 392, CPHB_L392, Building CPHB, Location- Secondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CPHB_L393	Electric Meter 393, CPHB_L393, Building CPHB, Location- secondary electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CPHB_P391	Electric Meter 391, CPHB_P391, Building CPHB, Location- CPHB primary transformer vault TX-14	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CRWC_L382	Electric Meter 382, CRWC_L382, Building CRWC, Location- CRWC Basment Mechanical room C50	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CRWC_P379	Electric Meter 379, CRWC_P379, Building CRWC, Location- Campus Recreation & Wellness Center	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CRWC_P380	Electric Meter 380, CRWC_P380, Building CRWC, Location- Campus Recreation & Wellness Center	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR CRWC_P412	Electric Meter 412, CRWC_P412, Building CRWC, Location- Water Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR D_P003	Electric Meter 3, D_P003, Building D, Location- Burge Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_L203	Electric Meter 203, DSB_L203, Building DSB, Location- T52 Off Loading Dock	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_L204	Electric Meter 204, DSB_L204, Building DSB, Location- T52 Room (Dental	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_P202	Electric Meter 202, DSB_P202, Building DSB, Location- South of DSB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_P205	Electric Meter 205, DSB_P205, Building DSB, Location- South of DSB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U421	Electric Meter 421, DSB_U421, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U422	Electric Meter 422, DSB_U422, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U423	Electric Meter 423, DSB_U423, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U424	Electric Meter 424, DSB_U424, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U425	Electric Meter 425, DSB_U425, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U426	Electric Meter 426, DSB_U426, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR DSB_U427	Electric Meter 427, DSB_U427, Building DSB, Location- DSB electrical secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR EMRB_L284	Electric Meter 284, EMRB_L284, Building EMRB, Location- EMRB Lights	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_P285	Electric Meter 285, EMRB_P285, Building EMRB, Location- EMRB T114	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_P286	Electric Meter 286, EMRB_P286, Building EMRB, Location- EMRB T-115	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_P287	Electric Meter 287, EMRB_P287, Building EMRB, Location- EMRB T116	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_P288	Electric Meter 288, EMRB_P288, Building EMRB, Location- EMRB T117	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_S283	Electric Meter 283, EMRB_S283, Building EMRB, Location- EMRB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EMRB_S411	Electric Meter 411, EMRB_S411, Building EMRB, Location- EMRB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EPB_L036	Electric Meter 36, EPB_L036, Building EPB, Location- EPB T128	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EPB_P037	Electric Meter 37, EPB_P037, Building EPB, Location- T128 Through Room 18	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR EPGF_S480	Electric Meter 480, EPGF_S480, Building EPGF, Location- UIHC Gen. Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ETC_P323	Electric Meter 323, ETC_P323, Building ETC, Location- ETC Electrical Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ETC_P324	Electric Meter 324, ETC_P324, Building ETC, Location- ETC Electrical Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ETC_P325	Electric Meter 325, ETC_P325, Building ETC, Location- ETC Electrical Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ETC_P326	Electric Meter 326, ETC_P326, Building ETC, Location- ETC Electrical Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FAME_L212	Electric Meter 212, FAME_L212, Building FAME, Location- Hall of Fame	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_L290	Electric Meter 290, FH_L290, Building FH, Location- Fieldhouse Parking Ramp	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_L292	Electric Meter 292, FH_L292, Building FH, Location- Fieldhouse Ramp Addition	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_L295	Electric Meter 295, FH_L295, Building FH, Location- FieldHouse East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_P289	Electric Meter 289, FH_P289, Building FH, Location- Fieldhouse East T7	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_P293	Electric Meter 293, FH_P293, Building FH, Location- NW Corner of Fieldhouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FH_P294	Electric Meter 294, FH_P294, Building FH, Location- T119 Swimming Pool	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR FH_S504	Electric Meter 504, FH_S504, Building FH, Location- Outside on NE wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR FSB_S180	Electric Meter 180, FSB_S180, Building FSB, Location- Finkbine Maint Shed	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P296	Electric Meter 296, GH_P296, Building GH, Location- SE Hospital Sub T181	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P297	Electric Meter 297, GH_P297, Building GH, Location- SE Hospital Sub T182	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P298	Electric Meter 298, GH_P298, Building GH, Location- SE Hospital Sub T183	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P299	Electric Meter 299, GH_P299, Building GH, Location- SE Hospital Sub T184	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P300	Electric Meter 300, GH_P300, Building GH, Location- SE Hospital Sub T185	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P301	Electric Meter 301, GH_P301, Building GH, Location- SE Hospital Sub T186	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_P302	Electric Meter 302, GH_P302, Building GH, Location- T124 West Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S356	Electric Meter 356, GH_S356, Building GH, Location- Pharmacy - Outside W.	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S483	Electric Meter 483, GH_S483, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S484	Electric Meter 484, GH_S484, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S485	Electric Meter 485, GH_S485, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S486	Electric Meter 486, GH_S486, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S487	Electric Meter 487, GH_S487, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S489	Electric Meter 489, GH_S489, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GH_S490	Electric Meter 490, GH_S490, Building GH, Location- General Hospital ground floor DAS IT room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR GILH_L038	Electric Meter 38, GILH_L038, Building GILH, Location- Gilmore Hall T68	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR GILH_P040	Electric Meter 40, GILH_P040, Building GILH, Location- Pentacrest Vault N.	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR H_L304	Electric Meter 304, H_L304, Building H, Location- Hillcrest North Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR H_P305	Electric Meter 305, H_P305, Building H, Location- Hillcrest Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR H_P306	Electric Meter 306, H_P306, Building H, Location- Hillcrest Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HA_L465	Electric Meter 465, HA_L465, Building HA, Location- Hancher	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HA_L466	Electric Meter 466, HA_L466, Building HA, Location- Hancher	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HA_L467	Electric Meter 467, HA_L467, Building HA, Location- Hancher	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HA_P463	Electric Meter 463, HA_P463, Building HA, Location- TX-160 Hancher Sub Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HA_P464	Electric Meter 464, HA_P464, Building HA, Location- TX-159 Hancher Sub Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HH_P041	Electric Meter 41, HH_P041, Building HH, Location- Halsey Gym T26	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HH_S042	Electric Meter 42, HH_S042, Building HH, Location- T26 Halsey Gym	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HLHS_L307	Electric Meter 307, HLHS_L307, Building HLHS, Location- Hardin Health Science	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HLHS_P308	Electric Meter 308, HLHS_P308, Building HLHS, Location- T163 Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HOPE_S243	Electric Meter 243, HOPE_S243, Building HOPE, Location- Ronald McDonald	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR1_L309	Electric Meter 309, HPR1_L309, Building HPR1, Location- Ramp I Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR1_P310	Electric Meter 310, HPR1_P310, Building HPR1, Location- T135 Basement of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR1_S311	Electric Meter 311, HPR1_S311, Building HPR1, Location- T135 Hospital Ramp I	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S432	Electric Meter 432, HPR2_S432, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S474	Electric Meter 474, HPR2_S474, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S475	Electric Meter 475, HPR2_S475, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR HPR2_S476	Electric Meter 476, HPR2_S476, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S477	Electric Meter 477, HPR2_S477, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S478	Electric Meter 478, HPR2_S478, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR2_S479	Electric Meter 479, HPR2_S479, Building HPR2, Location- Ramp secondary	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR4_L312	Electric Meter 312, HPR4_L312, Building HPR4, Location- Hospital Ramp 4	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR4_L315	Electric Meter 315, HPR4_L315, Building HPR4, Location- Hospital Ramp 4	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR4_P314	Electric Meter 314, HPR4_P314, Building HPR4, Location- Hospital Ramp 4	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HPR4_S313	Electric Meter 313, HPR4_S313, Building HPR4, Location- Hospital Ramp 4	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR HTRC_L211	Electric Meter 211, HTRC_L211, Building HTRC, Location- Hawkeye Tennis & Recreation Center	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_L047	Electric Meter 47, IATL_L047, Building IATL, Location- Laser Facility	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_L048	Electric Meter 48, IATL_L048, Building IATL, Location- Laser Sec. Gear Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_P043	Electric Meter 43, IATL_P043, Building IATL, Location- Laser	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_P044	Electric Meter 44, IATL_P044, Building IATL, Location- Laser	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_P045	Electric Meter 45, IATL_P045, Building IATL, Location- Laser	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IATL_P046	Electric Meter 46, IATL_P046, Building IATL, Location- Laser	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IMU_L051	Electric Meter 51, IMU_L051, Building IMU, Location- Westinghouse TX room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IMU_P049	Electric Meter 49, IMU_P049, Building IMU, Location- Iowa Memorial Union	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IMU_P050	Electric Meter 50, IMU_P050, Building IMU, Location- T28 Iowa Memorial	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IPF_P419	Electric Meter 419, IPF_P419, Building IPF Indoor Practice Facility Hansen Football Performance, Location- IPF Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR IPF_P420	Electric Meter 420, IPF_P420, Building IPF, Location- IPF Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR JCP_L318	Electric Meter 318, JCP_L318, Building JCP, Location- Colloton Pavilion East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_L327	Electric Meter 327, JCP_L327, Building JCP, Location- TX Room Colloton	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P316	Electric Meter 316, JCP_P316, Building JCP, Location- Colloton Pavilion East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P317	Electric Meter 317, JCP_P317, Building JCP, Location- Colloton Pavilion East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P319	Electric Meter 319, JCP_P319, Building JCP, Location- Colloton Pavilion West	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P320	Electric Meter 320, JCP_P320, Building JCP, Location- Colloton Pavilion West	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P321	Electric Meter 321, JCP_P321, Building JCP, Location- Colloton Pavilion West	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JCP_P322	Electric Meter 322, JCP_P322, Building JCP, Location- Colloton Pavilion West	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JH_P076	Electric Meter 76, JH_P076, Building JH, Location- Jessup Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P328	Electric Meter 328, JPP_P328, Building JPP, Location- Pappajohn East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P329	Electric Meter 329, JPP_P329, Building JPP, Location- Pappajohn East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P330	Electric Meter 330, JPP_P330, Building JPP, Location- West Pappajohn Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P331	Electric Meter 331, JPP_P331, Building JPP, Location- West Pappajohn Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P491	Electric Meter 491, JPP_P491, Building JPP, Location- West Pappajohn Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P492	Electric Meter 492, JPP_P492, Building JPP, Location- West Pappajohn Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR JPP_P493	Electric Meter 493, JPP_P493, Building JPP, Location- West Pappajohn Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_L216	Electric Meter 216, KS_L216, Building KS, Location- Kinnick Stadium Pressbox 4th	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_L217	Electric Meter 217, KS_L217, Building KS, Location- Kinnick Stadium Pressbox 4th	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_L218	Electric Meter 218, KS_L218, Building KS, Location- Stadium North End	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_L220	Electric Meter 220, KS_L220, Building KS, Location- Stadium Press Box S-Floor	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_L221	Electric Meter 221, KS_L221, Building KS, Location- Kinnick Stadium	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR KS_P222	Electric Meter 222, KS_P222, Building KS, Location- Stadium Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_P223	Electric Meter 223, KS_P223, Building KS, Location- Stadium Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_P224	Electric Meter 224, KS_P224, Building KS, Location- Stadium Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_P225	Electric Meter 225, KS_P225, Building KS, Location- Stadium Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_P226	Electric Meter 226, KS_P226, Building KS, Location- Stadium Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_S213	Electric Meter 213, KS_S213, Building KS, Location- Kinnick Stadium Pressbox	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_S214	Electric Meter 214, KS_S214, Building KS, Location- Kinnick Stadium Pressbox	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR KS_S215	Electric Meter 215, KS_S215, Building KS, Location- Kinnick Stadium Pressbox	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LC_L052	Electric Meter 52, LC_L052, Building LC, Location- Closet Right of Elevator 2nd	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LC_P053	Electric Meter 53, LC_P053, Building LC, Location- Lindquist Center Addition T86	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LC_P054	Electric Meter 54, LC_P054, Building LC, Location- Lindquist South vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LCUA_P227	Electric Meter 227, LCUA_P227, Building LCUA, Location- Levitt Center Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_L055	Electric Meter 55, LIB_L055, Building LIB, Location- Library Basement East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_L056	Electric Meter 56, LIB_L056, Building LIB, Location- Library Basement North	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_L057	Electric Meter 57, LIB_L057, Building LIB, Location- Library Parking Lot	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_P058	Electric Meter 58, LIB_P058, Building LIB, Location- T17 Library West Side of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_P059	Electric Meter 59, LIB_P059, Building LIB, Location- T18 Library West Side of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR LIB_P060	Electric Meter 60, LIB_P060, Building LIB, Location- T89 Library West Side of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MA_L228	Electric Meter 228, MA_L228, Building MA, Location- Art Museum basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MA_P229	Electric Meter 229, MA_P229, Building MA, Location- Art Museum Basement TX	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MEB_L332	Electric Meter 332, MEB_L332, Building MEB, Location- MEB T25 North Wing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR MEB_P338	Electric Meter 338, MEB_P338, Building MEB, Location- N.W. Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MERF_P343	Electric Meter 343, MERF_P343, Building MERF, Location- N.W. Chiller Plant TX 73	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MERF_P344	Electric Meter 344, MERF_P344, Building MERF, Location- N.W. Chiller Plant TX 74	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MH_P078	Electric Meter 78, MH_P078, Building MH, Location- Jessup Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ML_L336	Electric Meter 336, ML_L336, Building ML, Location- T39 Med Labs	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ML_P353	Electric Meter 353, ML_P353, Building ML, Location- Med Labs	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR ML_P354	Electric Meter 354, ML_P354, Building ML, Location- Med Labs	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MLH_L061	Electric Meter 61, MLH_L061, Building MLH, Location- Maclean Hall TX room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MLH_P062	Electric Meter 62, MLH_P062, Building MLH, Location- T98 Basement Maclean	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MRC_P334	Electric Meter 334, MRC_P334, Building MRC, Location- T137	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MRC_P335	Electric Meter 335, MRC_P335, Building MRC, Location- T142 MRC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MRC_S378	Electric Meter 378, MRC_S378, Building MRC, Location- MRC Transformer room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MRF_P360	Electric Meter 360, MRF_P360, Building MRF, Location- W.C.I. (T103 On Dock)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MSSB_P249	Electric Meter 249, MSSB_P249, Building MSSB, Location- USB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MSSB_S386	Electric Meter 386, MSSB_S386, Building MSSB, Location- MSSB Room 203	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MSSB_S387	Electric Meter 387, MSSB_S387, Building MSSB, Location- MSSB Room 203	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR MSSB_S388	Electric Meter 388, MSSB_S388, Building MSSB, Location- MSSB Room 203	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NB_P337	Electric Meter 337, NB_P337, Building CNB Nursing Building, Location- T153 East Switchgear Comp	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NCP_L068	Electric Meter 68, NCP_L068, Building NCP, Location- North Chiller North Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NCP_P065	Electric Meter 65, NCP_P065, Building NCP, Location- North Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR NCP_P066	Electric Meter 66, NCP_P066, Building NCP, Location- North Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NCP_P067	Electric Meter 67, NCP_P067, Building NCP, Location- North Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NCP_S063	Electric Meter 63, NCP_S063, Building NCP, Location- North Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NCP_S064	Electric Meter 64, NCP_S064, Building NCP, Location- North Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NH_L069	Electric Meter 69, NH_L069, Building NH, Location- North Hall Steam Tunnel	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NH_P070	Electric Meter 70, NH_P070, Building NH, Location- SE side of North Hall T66	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NPR_L340	Electric Meter 340, NPR_L340, Building NPR, Location- N.W. Chiller plant East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NPR_L341	Electric Meter 341, NPR_L341, Building NPR, Location- N.W. Chiller Plant East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NPR_P342	Electric Meter 342, NPR_P342, Building NPR, Location- N.W. Chiller Plant TX 45	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR NPR_S339	Electric Meter 339, NPR_S339, Building NPR, Location- N.W. Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR OC_P077	Electric Meter 77, OC_P077, Building OC, Location- Jessup Vault	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR P_P461	Electric Meter 461, P_P461, Building p, Location- Dorm sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PARK_L230	Electric Meter 230, PARK_L230, Building PARK, Location- W. of Parklawn on N.	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBB_L072	Electric Meter 72, PBB_L072, Building PBB, Location- John Pappajohn Business	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBB_L073	Electric Meter 73, PBB_L073, Building PBB, Location- John Pappajohn Business	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBB_L075	Electric Meter 75, PBB_L075, Building PBB, Location- Pappajohn Academic	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBB_P071	Electric Meter 71, PBB_P071, Building PBB, Location- John Pappajohn Business	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBB_P074	Electric Meter 74, PBB_P074, Building PBB, Location- Pappajohn Academic	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBDB_L282	Electric Meter 282, PBDB_L282, Building PBDB, Location- PBDB Pappajohn Biomedical Discovery Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBDB_P416	Electric Meter 416, PBDB_P416, Building PBDB, Location- PapaJohn Biomedical Discovery Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR PBDB_P417	Electric Meter 417, PBDB_P417, Building PBDB, Location- PapaJohn Biomedical Discovery Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PBSB_P505	Electric Meter 505, PBSB_P505, Building PBSB, Location- Jefferson Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PC_S013	Electric Meter 13, PC_S013, Building PC, Location- Honors	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P345	Electric Meter 345, PFP_P345, Building PFP, Location- Center of Excellence	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P346	Electric Meter 346, PFP_P346, Building PFP, Location- Center of Excellence	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P347	Electric Meter 347, PFP_P347, Building PFP, Location- Center of Excellence	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P348	Electric Meter 348, PFP_P348, Building PFP, Location- Pomerantz Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P349	Electric Meter 349, PFP_P349, Building PFP, Location- Pomerantz Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P350	Electric Meter 350, PFP_P350, Building PFP, Location- Pomerantz Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P351	Electric Meter 351, PFP_P351, Building PFP, Location- Pomerantz Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PFP_P352	Electric Meter 352, PFP_P352, Building PFP, Location- Pomerantz Pavilion	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PH_P079	Electric Meter 79, PH_P079, Building PH, Location- T113 SE Corner of Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PHAR_C099	Electric Meter 99, PHAR_C099, Building PHAR, Location- Hilcrest Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PHAR_P357	Electric Meter 357, PHAR_P357, Building PHAR, Location- Pharmacy Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PHAR_P358	Electric Meter 358, PHAR_P358, Building PHAR, Location- Pharmacy Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PHAR_P359	Electric Meter 359, PHAR_P359, Building PHAR, Location- W.C.I. (T-101 On Dock)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P163	Electric Meter 163, PP_P163, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P164	Electric Meter 164, PP_P164, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P165	Electric Meter 165, PP_P165, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P166	Electric Meter 166, PP_P166, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR PP_P167	Electric Meter 167, PP_P167, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P168	Electric Meter 168, PP_P168, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P169	Electric Meter 169, PP_P169, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P170	Electric Meter 170, PP_P170, Building PP, Location- Power Plant Annex	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P171	Electric Meter 171, PP_P171, Building PP, Location- Power Plant Annex T222	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P500	Electric Meter 500, PP_P500, Building PP, Location- PP Annex Level 5	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P501	Electric Meter 501, PP_P501, Building PP, Location- PP Annex Level 5	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_P502	Electric Meter 502, PP_P502, Building PP, Location- PP Annex Level 5	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR PP_S110	Electric Meter 110, PP_S110, Building PP, Location- Power Plant Lot 11 Temp	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR R_L364	Electric Meter 364, R_L364, Building R, Location- T127 East Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR R_P365	Electric Meter 365, R_P365, Building R, Location- T127 Metering Compartment	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR R_S363	Electric Meter 363, R_S363, Building R, Location- Rienow Mechanical Room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_L186	Electric Meter 186, RB_L186, Building RB, Location- Baseball Field Scoreboard	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_L233	Electric Meter 233, RB_L233, Building RB, Location- North of Rec Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_L234	Electric Meter 234, RB_L234, Building RB, Location- North of Rec Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_L241	Electric Meter 241, RB_L241, Building RB, Location- Rec Building T44	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_L418	Electric Meter 418, RB_L418, Building RB, Location- Rec. bldg.sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_P236	Electric Meter 236, RB_P236, Building RB, Location- Practice Facility Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_P239	Electric Meter 239, RB_P239, Building RB, Location- Practice Facility Sub N of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_S231	Electric Meter 231, RB_S231, Building RB, Location- North of Rec Addition T44	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_S232	Electric Meter 232, RB_S232, Building RB, Location- North of Rec Addition T44	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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EMTR RB_S235	Electric Meter 235, RB_S235, Building RB, Location- Practice Facility Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_S237	Electric Meter 237, RB_S237, Building RB, Location- Practice Facility Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RB_S238	Electric Meter 238, RB_S238, Building RB, Location- Practice Facility Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RCP_L355	Electric Meter 355, RCP_L355, Building RCP, Location- Pharmacy - Outside Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR RMD_P242	Electric Meter 242, RMD_P242, Building RMD, Location- Ronald McDonald House	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR S_L367	Electric Meter 367, S_L367, Building S, Location- T34 East Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR S_P368	Electric Meter 368, S_P368, Building S, Location- T34 Metering Compartment	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SC_P027	Electric Meter 27, SC_P027, Building SC, Location- Engineering Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SC_P030	Electric Meter 30, SC_P030, Building SC, Location- Engineering Sub T19	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SC_P031	Electric Meter 31, SC_P031, Building SC, Location- Engineering Sub T20	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SC_P032	Electric Meter 32, SC_P032, Building SC, Location- Engineering Sub T21	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SH_P080	Electric Meter 80, SH_P080, Building SH, Location- Schaeffer Outdoor Sub South	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHC_L369	Electric Meter 369, SHC_L369, Building SHC, Location- Speech and Hearing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHC_L370	Electric Meter 370, SHC_L370, Building SHC, Location- Speech and Hearing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHC_L372	Electric Meter 372, SHC_L372, Building SHC, Location- Speech and Hearing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHC_L373	Electric Meter 373, SHC_L373, Building SHC, Location- T133 Speech and Hearing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHC_P371	Electric Meter 371, SHC_P371, Building SHC, Location- Speech and Hearing	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHL_L207	Electric Meter 207, SHL_L207, Building SHL, Location- S. Basement Hydro Labs	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SHL_P206	Electric Meter 206, SHL_P206, Building SHL, Location- Hillcrest Sub T24 Eastside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SLP_P081	Electric Meter 81, SLP_P081, Building SLP, Location- T129 Through room 22-23	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SQ_L374	Electric Meter 374, SQ_L374, Building SQ, Location- South Quad East Wall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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EMTR SQ_S366	Electric Meter 366, SQ_S366, Building SQ, Location- Slater Machine Room T34	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SSH_L082	Electric Meter 82, SSH_L082, Building SSH, Location- Seashore Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SSH_L083	Electric Meter 83, SSH_L083, Building SSH, Location- Seashore Hall N. of Tx Rm	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SSH_P085	Electric Meter 85, SSH_P085, Building SSH, Location- T22 West Side of Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SSH_P086	Electric Meter 86, SSH_P086, Building SSH, Location- T23 East side of Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR STAN_L089	Electric Meter 89, STAN_L089, Building STAN, Location- T122	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR STAN_L090	Electric Meter 90, STAN_L090, Building STAN, Location- T122 Stanley House	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR STAN_S088	Electric Meter 88, STAN_S088, Building STAN, Location- T122	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR STH_P381	Electric Meter 381, STH_P381, Building STH, Location- Jefferson ST substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_P172	Electric Meter 172, SUBL_P172, Building SUBL, Location- Sub-L	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_P175	Electric Meter 175, SUBL_P175, Building SUBL, Location- Sub-L Main Floor East	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_P481	Electric Meter 481, SUBL_P481, Building SUBL, Location- Sub-L	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_P482	Electric Meter 482, SUBL_P482, Building SUBL, Location- Sub-L	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_S173	Electric Meter 173, SUBL_S173, Building SUBL, Location- Sub-L Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBL_S174	Electric Meter 174, SUBL_S174, Building SUBL, Location- Sub-L Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBU_P178	Electric Meter 178, SUBU_P178, Building SUBU, Location- Sub-U Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBU_P179	Electric Meter 179, SUBU_P179, Building SUBU, Location- Sub-U Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBU_P495	Electric Meter 495, SUBU_P495, Building SubU, Location- Substation T1	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR SUBU_P496	Electric Meter 496, SUBU_P496, Building SubU, Location- Substation T2	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR TB_L244	Electric Meter 244, TB_L244, Building TB, Location- T87 West Wall Basement	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR TB_P245	Electric Meter 245, TB_P245, Building TB, Location- Theater Northwest Corner (outdoor sub)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR TB_P246	Electric Meter 246, TB_P246, Building TB, Location- Theatre NW Corner	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR TH_P091	Electric Meter 91, TH_P091, Building TH, Location- T61 Trowbridge Hall	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR UBS_S250	Electric Meter 250, UBS_S250, Building UBS, Location- Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR UCC_P034	Electric Meter 34, UCC_P034, Building UCC, Location- Engineering Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR UCC_P035	Electric Meter 35, UCC_P035, Building UCC, Location- Engineering Sub	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR USB_L247	Electric Meter 247, USB_L247, Building USB, Location- Electric room in hall of	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR USB_P248	Electric Meter 248, USB_P248, Building USB, Location- USB	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR VAB_P468	Electric Meter 468, VAB_P468, Building VAB, Location- Visual Arts Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR VAN_L096	Electric Meter 96, VAN_L096, Building VAN, Location- West Van Allen Lighting	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR VAN_P093	Electric Meter 93, VAN_P093, Building VAN, Location- NEW TX	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR VAN_P094	Electric Meter 94, VAN_P094, Building VAN, Location- T131 Door 52 Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR VMB_P428	Electric Meter 428, VMB_P428, Building VMB, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P251	Electric Meter 251, WCP_P251, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P252	Electric Meter 252, WCP_P252, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P253	Electric Meter 253, WCP_P253, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P254	Electric Meter 254, WCP_P254, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P255	Electric Meter 255, WCP_P255, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P256	Electric Meter 256, WCP_P256, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P257	Electric Meter 257, WCP_P257, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR WCP_P258	Electric Meter 258, WCP_P258, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P259	Electric Meter 259, WCP_P259, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P260	Electric Meter 260, WCP_P260, Building WCP, Location- West Chiller (in back)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P263	Electric Meter 263, WCP_P263, Building WCP, Location- West Side Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P264	Electric Meter 264, WCP_P264, Building WCP, Location- West Side Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P265	Electric Meter 265, WCP_P265, Building WCP, Location- West Side Chiller Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P267	Electric Meter 267, WCP_P267, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P268	Electric Meter 268, WCP_P268, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P269	Electric Meter 269, WCP_P269, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_P270	Electric Meter 270, WCP_P270, Building WCP, Location- West Chiller (IN BACK)	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_S261	Electric Meter 261, WCP_S261, Building WCP, Location- West Side Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_S262	Electric Meter 262, WCP_S262, Building WCP, Location- West Side Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCP_S266	Electric Meter 266, WCP_S266, Building WCP, Location- N. of W. Chiller	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCTC_L415	Electric Meter 415, WCTC_L415, Building WCTC, Location- WCTC Mechanical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCTC_S413	Electric Meter 413, WCTC_S413, Building WCTC, Location- WCTC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WCTC_S414	Electric Meter 414, WCTC_S414, Building WCTC, Location- WCTC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WL_L375	Electric Meter 375, WL_L375, Building WL, Location- Westlawn	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WL_P377	Electric Meter 377, WL_P377, Building WL, Location- Westlawn Sub T143	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WL_S376	Electric Meter 376, WL_S376, Building WL, Location- Westlawn Sub Feeder #1	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WP_P097	Electric Meter 97, WP_P097, Building WP, Location- Water Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
EMTR WP_P098	Electric Meter 98, WP_P098, Building WP, Location- Water Plant T201	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
METERS GENERATOR	Meters and Controls Shop Generator	MC-SYSTEM	GENERATORS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
MTRS/CTRLS-MAIN	UTILITY NETWORK SYSTEM - MAIN	PROPERTY	UTILITY NETWORK	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
NTWRK SWITCH MAIN	NETWORK SWITCH AND HARDWARE - MAIN CAMPUS	MC-SYSTEM	NETWORK SWITCH/HARDWARE	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
PLC/HARDWARE MAIN	UTILITY SYSTEMS PLC AND HARDWARE - MAIN CAMPUS	MC-SYSTEM	PLC/HARDWARE	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
SOFTWARE-ELECTRIC DIST	Cimplicity Electric Distribution Project Software	MC-SYSTEM	UTILITY NETWORK	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
SOFTWARE-METERING	Cimplicity Metering Software	MC-SYSTEM	UTILITY NETWORK	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
SOFTWARE-UTILITIES	Utility Network Software	MC-SYSTEM	UTILITY NETWORK	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
SOFTWARE-WATER OPS	Cimplicity Domestic Water Plant Ops	MC-SYSTEM	UTILITY NETWORK	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STM MTR/HARDWARE MAIN	UTILITY SYSTEMS STEAM METERING AND HARDWARE - MAIN CAMPUS	MC-SYSTEM	STEAM METERING/HARDWARE	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 127.1	STMMTR 127.1, Building Number 278, 1 M-1 4 Inch S to Addition HP, Dental Mech Room By PRV In Ceiling	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 127.2	STMMTR 127.2, Building Number 278, 2 M-2 6 Inch S to North Building HP, Dental Mech Room By PRV In Ceiling	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 127.3	STMMTR 127.3, Building Number 278, 3 M-3 2 Inch S to Snow Melt HP, Dental Mech Room By PRV In Ceiling	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 148	STMMTR 148, Building Number 275, Petersen Residence Hall (P) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 153	STMMTR 153, Building Number 421, Papajohn Pavilion (JPP) LP, Carver Mech	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 16	STMMTR 16, Building Number 16, Communications Center (CC) LP, Basement Of Com Center	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 192	STMMTR 192, Building Number 373, Hydraulics Annex 1 (HA1) HP, ORF Vault	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 193	STMMTR 193, Building Number 242, Oakdale Shops Building A (OSBA) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 194.1	STMMTR 194.1, Building Number 245, 1 BRSF Sub Meter HP, BRSF Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 197	STMMTR 197, Building Number 308, West Chiller Heat 2A HP, Above Steam	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 220	STMMTR 220, Building Number 188, Spence Labs HP, Spence Labs Mech	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 47	STMMTR 47, Building Number 497, State Historical Society Building (SHSB) HP, Tunnel out side of SeaShore	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 90	STMMTR 90, Building Number 6, Pharmacy Building (PHAR) LP, In Ceiling Of Old Pharmacy Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 100	STMMTR 100, Building Number 304, Recreation Building (RB) HP, New Rec Under Chiller Water Cat Walk	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 101	STMMTR 101, Building Number 31, Hospital HP, Diverter Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 102	STMMTR 102, Building Number 31, Hospital LP, Diverter Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 103	STMMTR 103, Building Number 182, Medical Research Facility (MRF) HP, MRF Tank Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 104	STMMTR 104, Building Number 182, Medical Research Facility (MRF) LP, MRF Tank Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 105	STMMTR 105, Building Number 31, General Hospital after PRV HP, MRC Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 106	STMMTR 106, Building Number 31, General Hospital LP, MRC Pit	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 107	STMMTR 107, Building Number 343, Boyd Tower (BT) HP, Boyd Tower Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 108	STMMTR 108, Building Number 64, Medical Research Center (MRC) HP, MRC Pit	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 11	STMMTR 11, Building Number 136, Main Library (LIB) LP, Craw Under Library	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 110	STMMTR 110, Building Number 401, Eckstein Medical Research Building (EMRB) LP, Tunnel Between EMRB and Bowen	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 111	STMMTR 111, Building Number 204, Bowen Science Building (BSB) HP, Bowen Science Basment	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 112	STMMTR 112, Building Number 204, Bowen Science Building (BSB) LP, Bowen Science Basement	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 113	STMMTR 113, Building Number 34, Medical Education Building (MEB) HP, Stindler Walk Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 114	STMMTR 114, Building Number 34, Medical Education Building (MEB) LP, Tunnel by MEBARF	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 116	STMMTR 116, Building Number 293, Hardin Library for Health Sciences (HLHS) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 12	STMMTR 12, Building Number 376, Becker Communication Studies Building (BCSB) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 120	STMMTR 120, Building Number 33, Westlawn (WL) LP, MEBARF Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 121	STMMTR 121, Building Number 322, Nursing Building (CNB) HP, Tunnel by CBRB	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 123	STMMTR 123, Building Number 198, Wendell Johnson Speech and Hearing Center (SHC) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 124	STMMTR 124, Building Number 118, Center for Disabilities and Development (CDD) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 127	STMMTR 127, Building Number 278, Dental Science Building (DSB) HP, Denatl Pit	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 128	STMMTR 128, Building Number 374, Carver-Hawkeye Arena (CHA) HP, Pit Under Carver Hawkey Aren	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 129	STMMTR 129, Building Number 11, Seashore Hall (SSH) LP, Tunnel by VanAllen	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 13	STMMTR 13, Building Number 196, English-Philosophy Building (EPB) LP, In tunnel Outside of EBP	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 130	STMMTR 130, Building Number 456, Adler Journalism and Mass Communication Building (AJB) LP, Tunnel out side of Addler	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 133	STMMTR 133, Building Number 425, College of Medicine Administration Building (CMAB) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 134	STMMTR 134, Building Number 42, Kinnick Stadium (KS) HP, By Eye Clinic Genius Cabnet	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 135	STMMTR 135, Building Number 37, Art Building West (ABW) HP, New Art Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 138	STMMTR 138, Building Number 401, Eckstein Medical Research Building (EMRB) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 139	STMMTR 139, Building Number 75, College of Public Health Building (CPHB) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 14	STMMTR 14, Building Number 316, Lindquist Center (LC) LP, In Machine Room on South End of	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 142	STMMTR 142, Building Number 213, Institute for Rural and Environmental Health (IREH) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 144	STMMTR 144, Building Number 182, Hospital Kitchen HP, MRF Tank Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 145	STMMTR 145, Building Number NULL, Sky Walk HP, Chiller Ramp Level Two	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 146	STMMTR 146, Building Number 318, West Caus Transportation Center (WCTC) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 147	STMMTR 147, Building Number 422, North West Chilledwater Plant HP, Tunnel Out Side Of Norh West Chiller	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 150	STMMTR 150, Building Number 183, Iowa Memorial Union Parking Ra (IMUR) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 151	STMMTR 151, Building Number 25, Pappajohn Biomedical Discovery Building (PBDB) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 152	STMMTR 152, Building Number 25, Pappajohn Biomedical Discovery Building (PBDB) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 154	STMMTR 154, Building Number 359, Colloton Pavilion (JCP) LP, Carver Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 160	STMMTR 160, Building Number 31, Hospital Primary HP, In Tunnel Up from Field House Corner	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 165	STMMTR 165, Building Number 447, Medical Education Research Facility (MERF) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 166	STMMTR 166, Building Number 447, Medical Education Research Facility (MERF) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 167	STMMTR 167, Building Number 455, Carver Biomedical Research Building (CBRB) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 168	STMMTR 168, Building Number 455, Carver Biomedical Research Building (CBRB) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 17	STMMTR 17, Building Number 316, Lindquist Center (LC) LP, In Machine Room on South End of	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 179	STMMTR 179, Building Number 72, University Capitol Centre (UCC) LP, none	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 18	STMMTR 18, Building Number 22, Seamans Center (SC) LP, In Storage room down the hall from the	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 19	STMMTR 19, Building Number 22, Seamans Center (SC) LP, New Eng. Machine room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 190	STMMTR 190, Building Number 418, Iowa Advanced Technology Laboratories (IATL) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 195	STMMTR 195, Building Number 431, Hospital Boiler Meter HP, On catwalk by meter 49	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 198	STMMTR 198, Building Number NULL, Cap Mangmet and Parking HP, Electric Chillers	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 20	STMMTR 20, Building Number 23, MacLean Hall (MLH) LP, In Tunnel Under MacLean	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 200	STMMTR 200, Building Number 430, Pappajohn Business Building (PBB) LP, Above Hot water Heater	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 203	STMMTR 203, Building Number 308, West Chiller Plant 2b HP, In 1b Basment in Celling	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 204	STMMTR 204, Building Number 375, Colloton Pavilion (JCP) Central Sterilizing HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 205	STMMTR 205, Building Number 375, Colloton Pavilion (JCP) 7th Floor HP, Above fire cage	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 206	STMMTR 206, Building Number 90, Art Building Replacement HP, Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 207	STMMTR 207, Building Number 400, Childrens Hospital HP, Floor above PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 208	STMMTR 208, Building Number 359, Carver HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 209	STMMTR 209, Building Number 359, Carver HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 21	STMMTR 21, Building Number 1, Old Capitol (OC) LP, Tunnel leading into Old Cap	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 210	STMMTR 210, Building Number NULL, UHIC out HP, Vault outside Speech and Hearing	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 211	STMMTR 211, Building Number 125, Voxman Music LP, Vault outside	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 212	STMMTR 212, Building Number 403, Hosital Ra II HP, Floor above PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 216	STMMTR 216, Building Number 272, CAT Residence Hall LP, CAT Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 217	STMMTR 217, Building Number 0106, College of Pharmacy Building (CPB) Summer LP, South West Corner of	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 218	STMMTR 218, Building Number 0106, College of Pharmacy Building (CPB) Winter LP, South West Corner of	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 219	STMMTR 219, Building Number 0106, College of Pharmacy Building (CPB) High Pressure, South West Corner of building in Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 22	STMMTR 22, Building Number 2, Schaeffer Hall (SH) LP, In tunnel out side of Shaffer	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 223	STMMTR 223, Building Number 0042, Kinnick North Endzone HP, Location Mechanical Room NM112	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 23	STMMTR 23, Building Number 4, Jessup Hall (JH) LP, By transformer room under Jessup	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 24	STMMTR 24, Building Number 8, Macbride Hall (MH) LP, In tunnel Under MacBride (old brick	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 25	STMMTR 25, Building Number NULL, Hawkins Drive HP, Chamber out side of West Chiller	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 26	STMMTR 26, Building Number 68, Caus Recreation and Wellness Center (CRWC) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 27	STMMTR 27, Building Number 46, Iowa Memorial Union (IMU) LP, Imu Stub Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 28	STMMTR 28, Building Number 46, Iowa Memorial Union (IMU) LP, IMU Basement	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 29	STMMTR 29, Building Number 46, Iowa Memorial Union (IMU) LP, IMU tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 3	STMMTR 3, Building Number 132, Landscape Services Colex (LSC) LP, Tunnel out sided of CRWC	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 31	STMMTR 31, Building Number 184, Phillips Hall (PH) LP, Philips Hall Machine room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 32	STMMTR 32, Building Number 19, Sciences Library (SL) LP, Tunnel Outside of Bio Annex	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 33	STMMTR 33, Building Number 448, Biology Building East (BBE) LP, None	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 34	STMMTR 34, Building Number 18, Biology Building (BB) LP, In tunnel under New Bio	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 35	STMMTR 35, Building Number 18, Biology Building (BB) HP, In tunnel under New Bio	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 36	STMMTR 36, Building Number 448, Biology Building East (BBE) LP, Tunnel Leading to Biology East	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 38	STMMTR 38, Building Number 203, Van Allen Hall (VAN) LP, VanAllen Pit	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 39	STMMTR 39, Building Number 203, Van Allen Hall (VAN) LP, In tunnel off of Machine Room with PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 4	STMMTR 4, Building Number 393, Hydraulics Wind Tunnel Annex (HWTa) LP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 41	STMMTR 41, Building Number 11, Seashore Hall (SSH) LP, Under Seashore	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 42	STMMTR 42, Building Number 15, Halsey Hall (HH) LP, West Machine Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 43	STMMTR 43, Building Number 188, Spence Labs (S) LP, Under Seashore	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 44	STMMTR 44, Building Number 20, Stuit Hall (STH) LP, Under Seashore	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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STMMTR 45	STMMTR 45, Building Number 407, Engineering Research Facility (ERF) LP, Eng. Research Machine Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 48	STMMTR 48, Building Number 15, Halsey Hall (HH) LP, Tunnel out side of Halsey	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 49	STMMTR 49, Building Number 431, Pomerantz Family Pavilion (PFP) HP, Eye Clincs basment	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 50	STMMTR 50, Building Number 7, Calvin Hall (CALH) LP, Stub tunnel Leading up to Calvin	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 51	STMMTR 51, Building Number 38, Gilmore Hall (GILH) LP, Stub tunnel Leading up to Gilmore	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 52	STMMTR 52, Building Number 18, Biology Building (BB) LP, In tunnel that goes between Bio Anex and Old Bio	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 53	STMMTR 53, Building Number 29, Trowbridge Hall (TH) LP, Out Side NW Chiller In Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 54	STMMTR 54, Building Number 3, Chemistry Building (CB) LP, In Chem Bot Stub Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 55	STMMTR 55, Building Number 3, Chemistry Building (CB) HP, In Chem Bot Stub Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 58	STMMTR 58, Building Number 276, Daum Hall (D) LP, Daum Machine Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 59	STMMTR 59, Building Number 73, Burge Hall (B) LP, In Burge Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 60	STMMTR 60, Building Number 35, North Hall (NH) LP, In Norh Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 61	STMMTR 61, Building Number 277, Stanley Hall (STAN) LP, Under Stanley In Crawl Space	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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STMMTR 62	STMMTR 62, Building Number 73, Burge Hall (B) HP, None	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 63	STMMTR 63, Building Number 73, Burge Hall (B) LP, Burge Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 64	STMMTR 64, Building Number 44, Currier HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 65	STMMTR 65, Building Number 44, Currier Hall (C) LP, Chamber Outside of Currier	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 66	STMMTR 66, Building Number 44, Presidents Residence (PR) LP, Currier Storage Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 68	STMMTR 68, Building Number 50, Theatre Building (TB) HP, End of Art Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 69	STMMTR 69, Building Number 221, Hancher HP, End of Art Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 70	STMMTR 70, Building Number 222, Old Art Musuem (OAM) HP, Under Art Museum	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 73	STMMTR 73, Building Number 21, Art Building (AB) HP, In Chamber Outside Of Art Building	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 76	STMMTR 76, Building Number 112, Hillcrest Hall (H) HP, Grand AVE Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 79	STMMTR 79, Building Number NULL, Hillcrest LP, Center Chamber of Grand Ave Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 80	STMMTR 80, Building Number 24, Hydraulics LP, Tunnel off of HWY 6	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 81	STMMTR 81, Building Number 377, Boyd Law Building (BLB) LP, In Celling of Boyd Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 84	STMMTR 84, Building Number 273, Rienow Hall (R) LP, Quad Chamber	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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STMMTR 85	STMMTR 85, Building Number 274, Slater Hall (S) LP, Renow Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 86	STMMTR 86, Building Number 115, South Quad (SQ) LP, South Quad Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 87	STMMTR 87, Building Number 40, Field House (FH) LP, Field House Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 88	STMMTR 88, Building Number 40, Field House (FH) LP, In Ceiling Outside of Locker Rooms	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 89	STMMTR 89, Building Number 6, Pharmacy Building (PHAR) HP, 4" in Old Pharmacy Mechinal Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 9	STMMTR 9, Building Number 185, Water Plant LP, Basement of Water Plant	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 91	STMMTR 91, Building Number 28, Medical Laboratories (ML) LP, In Med Labs Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 92	STMMTR 92, Building Number 28, Medical Laboratories (ML) HP, In Med Labs Tunnel	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 93	STMMTR 93, Building Number 31, Main Hospital Meter Deduct From 160 HP, In Tunnel Under Colloton	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 94	STMMTR 94, Building Number 6, Pharmacy Building (PHAR) HP, In Mechinal Room with PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 95	STMMTR 95, Building Number 6, Pharmacy Building (PHAR) LP, New Additon Mechial Room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 96	STMMTR 96, Building Number 422, North Chiller HP, In North Chiller	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 97	STMMTR 97, Building Number 422, North Chiller LP, In North Chiller	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
STMMTR 98	STMMTR 98, Building Number 454, Blank Honors Center (BHC) LP, In Janitor's room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN

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STMMTR 99	STMMTR 99, Building Number 458, Pomerantz Center (PC) LP, In Janitor's room	MC-SERIALIZED	STEAM METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
UTIL NTRWK CABLING MAIN	UTILITY SYSTEMS NETWORK CABLING - MAIN CAMPUS	MC-SYSTEM	UTIL NETWORK CABLING	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
UTL COMPTR PLTFRM MAIN	UTILITY SYSTEMS ETHERNET COMPUTER PLATFORM - MAIN CAMPUS	MC-SYSTEM	UTIL ETHRNT COMP PLTFRM	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
WATER METERS-MAIN	Water Meters - Main Campus	MC-SYSTEM	WATER METERS	ACTIVE	MAIN CAMPUS	CAMPUS WIDE	MTRS/CTRLS-MAIN
CW INTERFACE-OAKDALE	CW Interface - Oakdale Campus	MC-SYSTEM	CW INTERFACES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
ELEC MTR/HARDWARE OAK	UTILITY SYSTEMS ELECTRIC METERING AND HARDWARE - OAKDALE CAMPUS	MC-SYSTEM	ELEC METERING/HARDWARE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR BRSF_L460	Electric Meter 460, BRSF_L460, Building BRSF, Location- Oakdale campus	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR BRSF_S458	Electric Meter 458, BRSF_S458, Building BRSF, Location- Oakdale campus	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR BRSF_S459	Electric Meter 459, BRSF_S459, Building BRSF, Location- Oakdale campus	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR CWPO_S450	Electric Meter 450, CWPO_S450, Building CWPO, Location- Oakdale PP	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR CWPO_S451	Electric Meter 451, CWPO_S451, Building CWPO, Location- Oakdale PP	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR EMF_S445	Electric Meter 445, EMF_S445, Building EMF, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HA1_S448	Electric Meter 448, HA1_S448, Building HA1, Location- Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HA2_S442	Electric Meter 442, HA2_S442, Building HA2, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S456	Electric Meter 456, HLI_S456, Building HLI, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S457	Electric Meter 457, HLI_S457, Building HLI, Location- HLI substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S469	Electric Meter 469, HLI_S469, Building HLI, Location- HLI Penthouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S470	Electric Meter 470, HLI_S470, Building HLI, Location- HLI Penthouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S471	Electric Meter 471, HLI_S471, Building HLI, Location- HLI Penthouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S472	Electric Meter 472, HLI_S472, Building HLI, Location- HLI Penthouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HLI_S473	Electric Meter 473, HLI_S473, Building HLI, Location- HLI Penthouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD

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EMTR HWBF_L443	Electric Meter 443, HWBF_L443, Building HWBF, Location- outside South	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR HWBF_S444	Electric Meter 444, HWBF_S444, Building HWBF, Location- Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR IREH_L441	Electric Meter 441, IREH_L441, Building IREH, Location- light pole	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR IREH_S455	Electric Meter 455, IREH_S455, Building IREH, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ISC_P507	Electric Meter 507, ISC_P507, Building ISC UIHC Integrated Services Center TX 44 (south transformer), Location ISC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ISC_P508	Electric Meter 508, ISC_P508, Building ISC UIHC Integrated Services Center TX 45 (North Transformer), Location ISC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_P394	Electric Meter 394, ITF_P394, Building ITF, Location- ITF primary TX-40	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_P395	Electric Meter 395, ITF_P395, Building ITF, Location- ITF primary TX-41	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S396	Electric Meter 396, ITF_S396, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S397	Electric Meter 397, ITF_S397, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S398	Electric Meter 398, ITF_S398, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S399	Electric Meter 399, ITF_S399, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S400	Electric Meter 400, ITF_S400, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S401	Electric Meter 401, ITF_S401, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S402	Electric Meter 402, ITF_S402, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S403	Electric Meter 403, ITF_S403, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S404	Electric Meter 404, ITF_S404, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S405	Electric Meter 405, ITF_S405, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S406	Electric Meter 406, ITF_S406, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S407	Electric Meter 407, ITF_S407, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD

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EMTR ITF_S408	Electric Meter 408, ITF_S408, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S409	Electric Meter 409, ITF_S409, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S410	Electric Meter 410, ITF_S410, Building ITF, Location- ITFsecondary Electrical	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ITF_S462	Electric Meter 462, ITF_S462, Building ITF, Location- Electrical secondary room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR L_P439	Electric Meter 439, L_P439, Building L, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OBG_S449	Electric Meter 449, OBG_S449, Building OBG, Location- Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OIGS_S453	Electric Meter 453, OIGS_S453, Building OIGS, Location- Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OPP_L488	Electric Meter 488, OPP_L488, Building OPP, Location- outside on light pole	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OPP_S107	Electric Meter 107, OPP_S107, Building OPP, Location- Oakdale Power Plant	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OPPS_P440	Electric Meter 440, OPPS_P440, Building OPPS, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ORF_S105	Electric Meter 105, ORF_S105, Building ORF, Location- Oakdale Research	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR ORF_S106	Electric Meter 106, ORF_S106, Building ORF, Location- Oakdale Research	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OSBA_S102	Electric Meter 102, OSBA_S102, Building OSBA, Location- Oakdale Shops Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OSBB_S103	Electric Meter 103, OSBB_S103, Building OSBB, Location- Oakdale Shops Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OSBC_S104	Electric Meter 104, OSBC_S104, Building OSBC, Location- Oakdale Shops Building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OWH_L506	Electric Meter 506, OWH_L506, Building OWH, Location- Oakdale Well House	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OWH_S433	Electric Meter 433, OWH_S433, Building OWH, Location- Oakdale Wellhouse	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OWH_S452	Electric Meter 452, OWH_S452, Building OWH, Location- Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR OWP_S108	Electric Meter 108, OWP_S108, Building OWH, Location- By Laundry	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR PRL_S447	Electric Meter 447, PRL_S447, Building PRL, Location- Building substation	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR RPLS_S446	Electric Meter 446, RPLS_S446, Building RPLS, Location- old Helicopter hanger	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
EMTR STUA_S101	Electric Meter 101, STUA_S101, Building STUA, Location- Oakdale Studio A	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR TIC_L434	Electric Meter 434, TIC_L434, Building TIC, Location- TIC	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR TIC_L437	Electric Meter 437, TIC_L437, Building TIC, Location- Outside	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR TIC_S435	Electric Meter 435, TIC_S435, Building TIC, Location- Tic Batcave incinerator	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR TIC_S436	Electric Meter 436, TIC_S436, Building TIC, Location- in elevator room	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
EMTR TIC_S438	Electric Meter 438, TIC_S438, Building TIC, Location- building	MC-SERIALIZED	ELECTRIC METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
MTRS/CTRLS-OAKD	UTILITY NETWORK SYSTEM - OAKDALE CAMPUS	PROPERTY	UTILITY NETWORK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
NTWRK SWITCH OAK	UTILITY SYSTEMS NETWORK SWITCH AND HARDWARE - OAKDALE CAMPUS	MC-SYSTEM	NETWORK SWITCH/HARDWARE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
PLC/HARDWARE OAK	UTILITY SYSTEMS PLC AND HARDWARE - OAKDALE CAMPUS	MC-SYSTEM	PLC/HARDWARE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STM MTR/HARDWARE OAK	UTILITY SYSTEMS STEAM METERING AND HARDWARE - OAKDALE CAMPUS	MC-SYSTEM	STEAM METERING/HARDWARE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 132	STMMTR 132, Building Number 435, Multi-Tenant Facility (MTF) HP, By MTF PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 137	STMMTR 137, Building Number 26, State Hygienic Laboratory (HLI) HP, Hygenics Lab Mech Room 221	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 140	STMMTR 140, Building Number 370, Iowa Geological Survey - Oakdale (OIGS) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 180	STMMTR 180, Building Number 239, Oak Dale Power Plant West Feed HP, On Catwalk by Door	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 181	STMMTR 181, Building Number 239, Oak Dale Power Plant North East Feed HP, In Explosion Proof Area	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 182	STMMTR 182, Building Number 239, Oak Dale Power Plant South East Feed HP, In Tunnel to Tick	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 184	STMMTR 184, Building Number 230, Oakdale Studio A (STUA) HP, In Tunnel out sided Apts	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
STMMTR 185	STMMTR 185, Building Number 227, Technology Innovation Center (TIC) HP, In Tunnel out side Tick ***INACTIVE***	MC-SERIALIZED	STEAM METERS	INACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 186	STMMTR 186, Building Number 243, Oakdale Shops Building B (0) HP, In Ceiling South of PLC	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 187	STMMTR 187, Building Number 413, Oakdale Biology Greenhouse (OBGH) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 188	STMMTR 188, Building Number 330, Physiology Research Laboratory (PRL) HP,	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 189	STMMTR 189, Building Number 305, Oakdale Research Facilities (ORF) HP, ORF Vault	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 194	STMMTR 194, Building Number 245, Biomedical Research Support Facility (BRSF) HP, Chamber Outside BRSF	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
STMMTR 194.2	STMMTR 194.2, Building Number 245, 2 BRSF Sub Meter HP, BRSF Mech Room	MC-SERIALIZED	STEAM METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
UTIL NTWRK CABLING OAK	UTILITY SYSTEMS NETWORK CABLING - OAKDALE CAMPUS	MC-SYSTEM	UTIL NETWORK CABLING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
UTL COMPTR PLTFRM OAK	UTILITY SYSTEMS ETHERNET COMPUTER PLATFORM - OAKDALE CAMPUS	MC-SYSTEM	UTIL ETHRNT COMP PLTFRM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
WATER METERS-OAKDALE	Water Meters - Oakdale Campus	MC-SYSTEM	WATER METERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	MTRS/CTRLS-OAKD
422	North Campus Parking and Chilled Water Facility NCP	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
13542	Passenger Elevator North Campus Ramp Location : 240 N. Madison	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
13543	N.E. Corner on Platform, 5 feet up, Location : Serves Cold Water Line of BFP	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
13544	BFP - Northeast Side of Building Up on	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43335	North Plant Chilled Water Distribution Pump #7	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43337	North Plant Chilled Water Distribution Pump #8	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43338	North Plant Chilled Water Circulation	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43339	North Plant Chilled Water Circulation	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43340	North Plant Chilled Water Circulation	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43342	North Plant OM #4 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43343	North Plant Cooling Tower #2	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43344	North Plant Chilled Water Circulation	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43345	North Plant Chilled Water Distribution Pump #6	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43346	North Plant Cooling Tower #3	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43347	North Plant YK #3 Motor	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43348	North Plant Cooling Tower #4	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43349	North Plant OM #4 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43350	North Plant YK #3 Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43351	North Plant Air Receiver	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43357	Chiller #2 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43359	North Plant Cooling Tower 1	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43360	North Plant Air Dryer System	SERIALIZED	DRYER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43363	North Plant Condenser Water Pump #4	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43364	North Plant Condenser Water Pump #3	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43365	North Plant Condensate Receiver Pump	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43367	North Plant Chilled Water Expansion	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43368	North Plant Condenser Water Pump #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43369	North Plant Condensate Receiver Pump	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43370	North Plant Condensate Receiver	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43374	North Plant Chilled Water Distribution Pump #5	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
43378	North Plant Condenser Water Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
57471	North Chiller Cooling Tower 1 Water Treatment	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
57472	North Chiller Cooling Tower 2 Water Treatment	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58016	North Plant DCS and PLC Control	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58024	North Plant Building, HVAC Equipment and Grounds	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58044	North Plant Chemical Feed System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58051	North Plant OM #4 Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58052	North Plant OM #4 Steam Turbine	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58053	North Plant YK #3 Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58055	North Plant Refrigerant Recovery/Transfer System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58064	North Plant Absorber #1 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58065	North Plant Absorber #1 Controls : 422-ABSORBER1-CONTROLS-0001	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58066	North Plant Absorber #2 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
58067	North Plant Absorber #2 Controls : 422-ABSORBER2-CONTROLS-0001	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58068	North Plant OM #4 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58069	North Plant OM #4 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58070	North Plant YK #3 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58071	North Plant YK #3 Controls	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58249	Fire Safety Inspection (1), NCP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58289	North Plant Air Compressor #1	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58290	North Plant Air Compressor #2	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
58667	North Plant YK #3 Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
59014	Fire Alarm System, 0422 NCP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
59863	North Plant Free Cool Heat Exchanger #1	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
59939	North Plant Side Stream Filter Pump #2	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
59941	North Plant Side Stream Filter Pump #1	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
64801	Electric System	SYSTEM	ELECTRICAL SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
64977	Automatic External Defibrillator (AED), 0422 NCP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
65388	Emergency Lights, System, 0422 Building Wide Emergency and Exit Lighting	SYSTEM	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
65663	Water-Valve, 205, 0422 Water Valve that feeds North Campus Water Spigots Location: 205, Chiller Room	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
65696	Loop	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	N Campus Parking Ramp
443	NW Newton Road Ramp NRP	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17597	BFP-1, B9, 0443 BACKFLOW PREVENTER LOCATION: NORTHEAST CORNER, 8' UP, TOP ASSEMBLY FORMERLY: 443-B9-CPW-BFP-1	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17598	BFP-2, B9, 0443 BACKFLOW PREVENTER LOCATION: NORTHEAST CORNER, 6' UP, 2ND FROM TOP FORMERLY: 443-B9-CPW-BFP-2	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17599	BFP-3, B9, 0443 BACKFLOW PREVENTER LOCATION: NORTHEAST CORNER, 4' UP, 2ND FROM BOTTOM FORMERLY: 443-B9-CPW-BFP-3	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
17600	BFP-4, B9, 0443 BACKFLOW PREVENTER LOCATION: NORTHEAST CORNER, 1' UP, BOTTOM ASSEMBLY FORMERLY: 443-B9-CPW-BFP-4	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17601	BFP-5, B9, 0443 BACKFLOW PREVENTER LOCATION: NORTH CORNER, EAST END, 4' UP	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17602	North Side, West End, 4 feet up Location : Machine Room	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17604	Fan Coils for Parking Ramp Elevator	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17605	Passenger Elevator Newton Road Parking Facility Location : West End East	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17606	Passenger Elevator Newton Road Parking Facility Location : East End	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
17607	Passenger Elevator Location : West End West One	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44676	NW Plant Chiller Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44682	NW Plant Air Dryer System	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44685	NW Plant Condenser Water Pump #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44686	NW Plant Air Receiver Tanks	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44687	NW Plant Chiller Evaporator	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44688	NW Plant Chilled Water Distribution	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44689	NW Plant Cooling Tower 1	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44690	NW Plant Cooling Tower 2	SERIALIZED	COOLING TOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44691	NW Plant Chiller Water Expansion Tank	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44693	Condensate Receiver Pump	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
44694	NW Plant Chilled Water Circulation	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57465	NW Plant Sand Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57603	NW Plant Air Compressor	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57604	NW Plant Air Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57605	NW Plant Chiller Compressor	SERIALIZED	COMPRESSOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57606	NW Plant Chiller System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57607	NW Plant Chiller Steam Turbine	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57608	NW Plant Refrigerant Recovery/Transfer System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57609	NW Plant Condenser Side Stream Filter System	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57610	NW Plant Chemical Feed System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57729	NW Plant Condensate System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
57892	NW Plant Building, HVAC, Equipment and Grounds	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57893	NW Plant DCS and PLC Control Systems	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57894	NW Plant Chiller Surface Condenser	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57897	NW Plant Condensate Receiver System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57922	NW Plant Steam Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
57924	NW Plant Water Piping	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
58020	NW Chiller Controls : 443-NWCHILLER-CONTROLS-0001	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
58250	Fire Safety Inspection (1), 0443 NRP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
58619	Fire Alarm Batteries, 0443 NRP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
59013	Fire Alarm System, 0443 NRP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
64942	Electric System	SYSTEM	ELECTRICAL SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
64976	Automatic External Defibrillator (AED), 0443 NRP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
65398	Emergency Lights, System ,0443 Building Wide Emergency and Exit Lighting	SYSTEM	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
65662	Water-Valve, 100, 0443 Water Valve that feeds Newton Road Ramp Water Spigots Location : 100 Storage Room	SYSTEM	PIPING SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
65695	Loop	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
65861	Fan Coil Units, System, 0443 ITS Fan Coil Units and Newton Road Ramp	SYSTEM	PM ROUTING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
66161	Water-Valve, 100, 0443 Water Valve that feeds Newton Road Ramp Water Spigots Location : 100, Chiller Room	SERIALIZED	PIPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
67202	SUMP PUMP/OIL SEPARATOR, YARD-NORTH, 0443 VIRTUAL ASSET FOR BIENNIAL (EVERY TWO YEARS) PM CLEANING OF FACILITY SUMP PUMP/OIL SEPARATOR	SERIALIZED	PUMP SUMP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Newton Road Ramp
EB FEEDER	Oakdale 69kV Substation Feeder EB	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
EC FEEDER	Oakdale 69kV Substation Feeder EC	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
ED FEEDER	Oakdale 69kV Substation Feeder ED	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ED-VAULTS-OAKDALE	Substation O (Oakdale) Electrical Vaults	ED-SYSTEM	ELECTRICAL VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
OAKDALE CAMPUS LIGHTING	Lighting Oakdale Campus Exterior	ED-SYSTEM	LIGHTING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
424	OAKDALE 69KV SUBSTATION	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
60443	FIRE SAFETY INSPECTION (2), 0424 OAK 69KV SUB	SERIALIZED	SAFETY DEVICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
EB FEEDER	Oakdale 69kv Substation Feeder EB	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
EC FEEDER	Oakdale 69kv Substation Feeder EC	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
ED FEEDER	Oakdale 69kv Substation Feeder ED	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
ED-VAULTS-OAKDALE	Substation O (Oakdale) Electrical Vaults	ED-SYSTEM	ELECTRICAL VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
OAKDALE CAMPUS LIGHTING	Lighting Oakdale Campus Exterior	ED-SYSTEM	LIGHTING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale 69KV Substation
256	OAKDALE CHILLED WATER PLANT	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18838	256-101-CPW-BFP-2 : BFP - NEW ADDITION, WEST MECH RM, MAIN FLOOR, NORTH END, TOP UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18839	256-101-CPW-BFP-3 : BFP - WEST WALL, NORTH END, BOTTOM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18840	256-101-FW-BFP-1 : BFP - NEW ADDITION, MAIN FLOOR, WEST MECH	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
52488	256-101-CPW-BFP-1 : BFP, MAIN FLOOR, WEST WALL, TOP UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
52489	256-101-CPW-BFP-4 : BFP, MAIN FLOOR, WEST WALL, BOTTOM UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56035	0256- CHILLED WATER MECHANICAL DISTRIBUTION : CHILLED WATER DISTRIBUTION NETWORK OAKDALE	SERIALIZED	PIPING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56398	0256-OCWP-AIR-V-001: AIR SYSTEM PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56399	0256-OCWP-AIR-V-002: AIR SYSTEM PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56400	0256-OCWP-AIR-V-003: AIR SYSTEM HOSEBIB ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56401	0256-OCWP-AIR-V-004: AIR SYSTEM ISOLATION VALVE TO HOT WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56402	0256-OCWP-AIR-V-005: AIR SYSTEM CONTROL UNIT ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56403	0256-OCWP-AIR-V-006: AIR SYSTEM MPS AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56404	0256-OCWP-AIR-V-007: AIR SYSTEM MPS AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56405	0256-OCWP-AIR-V-008: AIR SYSTEM CWS AOV #1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56406	0256-OCWP-AIR-V-009: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56407	0256-OCWP-AIR-V-010: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56408	0256-OCWP-AIR-V-011: AIR SYSTEM HOSEBIB ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56409	0256-OCWP-AIR-V-012: AIR SYSTEM CWS AOV #2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56410	0256-OCWP-AIR-V-013: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56411	0256-OCWP-AIR-V-014: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56412	0256-OCWP-AIR-V-015: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56413	0256-OCWP-AIR-V-016: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56414	0256-OCWP-AIR-V-017: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56415	0256-OCWP-AIR-V-018: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56416	0256-OCWP-AIR-V-019: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56417	0256-OCWP-AIR-V-020: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56418	0256-OCWP-AIR-V-021: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56419	0256-OCWP-AIR-V-022: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56420	0256-OCWP-AIR-V-023: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56421	0256-OCWP-AIR-FIL-001: AIR SYSTEM INLET FILTER TO MPS HEATER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56422	0256-OCWP-AIR-FIL-002: AIR SYSTEM FILTER TO MPS AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56423	0256-OCWP-AIR-FIL-003: AIR SYSTEM FILTER TO CWS AOV #1	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56424	0256-OCWP-AIR-FIL-004: AIR SYSTEM FILTER TO CWS AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56425	0256-OCWP-AIR-FIL-005: AIR SYSTEM FILTER TO CON AOV #5	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56426	0256-OCWP-AIR-FIL-006: AIR SYSTEM FILTER TO CON AOV #4	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56427	0256-OCWP-AIR-FIL-007: AIR SYSTEM FILTER TO CON AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56428	0256-OCWP-AIR-FIL-008: AIR SYSTEM FILTER TO CON AOV #6	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56429	0256-OCWP-AIR-FIL-009: AIR SYSTEM FILTER TO CON AOV #3	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56430	0256-OCWP-AIR-FIL-010: AIR SYSTEM FILTER TO CON AOV #7	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56431	0256-OCWP-AIR-FIL-011: AIR SYSTEM FILTER TO CON AOV #1	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56432	0256-OCWP-AIR-REG-001: AIR SYSTEM TO MPS AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56433	0256-OCWP-AIR-REG-002: AIR SYSTEM TO MPS AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56434	0256-OCWP-AIR-REG-003: AIR SYSTEM TO CHWS AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56435	0256-OCWP-AIR-REG-004: AIR SYSTEM TO CHWS AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56436	0256-OCWP-AIR-REG-005: AIR SYSTEM TO CON AOV #5 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56437	0256-OCWP-AIR-REG-006: AIR SYSTEM TO CON AOV #4 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56438	0256-OCWP-AIR-REG-007: AIR SYSTEM TO CON AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56439	0256-OCWP-AIR-REG-008: AIR SYSTEM TO CON AOV #6 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56440	0256-OCWP-AIR-REG-009: AIR SYSTEM TO CON AOV #3 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56441	0256-OCWP-AIR-REG-010: AIR SYSTEM TO CON AOV #7 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56442	0256-OCWP-AIR-REG-011: AIR SYSTEM TO CON AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56443	0256-OCWP-AIR-PG-001: AIR SYSTEM FILTER #1 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56444	0256-OCWP-AIR-PG-002: AIR SYSTEM INLET TO MPS HEATER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56445	0256-OCWP-AIR-PG-003: AIR SYSTEM INLET TO MPS HEATER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56446	0256-OCWP-AIR-PG-004: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #1	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56447	0256-OCWP-AIR-PG-005: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #2	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56448	0256-OCWP-AIR-PG-006: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #3	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56449	0256-OCWP-AIR-PG-007: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #4	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56450	0256-OCWP-AIR-PG-008: AIR SYSTEM FILTER #2 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56451	0256-OCWP-AIR-PG-009: AIR SYSTEM REGULATOR #2 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56452	0256-OCWP-AIR-CU-001: AIR SYSTEM CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56453	0256-OCWP-AIR-HB-001: AIR SYSTEM HOSEBIB MAIN FLOOR OCWP	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56454	0256-OCWP-AIR-HB-002: AIR SYSTEM HOSEBIB 2ND FLOOR OCWP	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56455	0256-OCWP-AIR-PT-001: AIR SYSTEM INLET PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56456	0256-OCWP-AIR-TS-001: AIR SYSTEM MPS WATER HEATER TEMPERATURE	SERIALIZED	SWITCH TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56457	0256-OCWP-CS-V-001: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56458	0256-OCWP-CS-V-002: CONDENSER SUPPLY ISOLATION VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56459	0256-OCWP-CS-V-003: CONDENSER SUPPLY OUTLET VALVE TO PWS FILTERS	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56460	0256-OCWP-CS-V-004: CONDENSER SUPPLY INLET VALVE FROM PWS	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56461	0256-OCWP-CS-V-005: CONDENSER SUPPLY OUTLET VALVE TO CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56462	0256-OCWP-CS-V-006: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56463	0256-OCWP-CS-V-007: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56464	0256-OCWP-CS-V-008: CONDENSER SUPPLY OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56465	0256-OCWP-CS-V-009: CONDENSER SUPPLY INLET VALVE TO CONTROL UNIT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56466	0256-OCWP-CS-V-010: CONDENSER SUPPLY FIL #1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56467	0256-OCWP-CS-V-011: CONDENSER SUPPLY OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56468	0256-OCWP-CS-V-012: CONDENSER SUPPLY OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56469	0256-OCWP-CS-V-013: CONDENSER SUPPLY TOWER WATER INLET VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56470	0256-OCWP-CS-V-014: CONDENSER SUPPLY BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56471	0256-OCWP-CS-V-015: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56472	0256-OCWP-CS-V-016: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56473	0256-OCWP-CS-V-017: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56474	0256-OCWP-CS-V-018: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56475	0256-OCWP-CS-V-019: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56476	0256-OCWP-CS-V-020: CONDENSER SUPPLY PUMP #2 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56477	0256-OCWP-CS-V-021: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56478	0256-OCWP-CS-V-022: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56479	0256-OCWP-CS-V-023: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56480	0256-OCWP-CS-V-024: CONDENSER SUPPLY INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56481	0256-OCWP-CS-V-025: CONDENSER SUPPLY CHEMICAL FEED INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56482	0256-OCWP-CS-V-026: CONDENSER SUPPLY TOWER WATER INLET VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56483	0256-OCWP-CS-V-027: CONDENSER SUPPLY BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56484	0256-OCWP-CS-V-028: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56485	0256-OCWP-CS-V-029: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56486	0256-OCWP-CS-V-030: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56487	0256-OCWP-CS-V-031: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56488	0256-OCWP-CS-V-032: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56489	0256-OCWP-CS-V-033: CONDENSER SUPPLY PUMP #1 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56490	0256-OCWP-CS-V-034: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56491	0256-OCWP-CS-V-035: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56492	0256-OCWP-CS-V-036: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56493	0256-OCWP-CS-V-037: CONDENSER SUPPLY INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56494	0256-OCWP-CS-V-038: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56495	0256-OCWP-CS-V-039: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56496	0256-OCWP-CS-V-040: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56497	0256-OCWP-CS-V-041: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56498	0256-OCWP-CS-V-042: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56499	0256-OCWP-CS-V-043: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56500	0256-OCWP-CS-V-044: CONDENSER SUPPLY INLET VALVE TO HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56501	0256-OCWP-CS-V-045: CONDENSER SUPPLY OUTLET VALVE FROM CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56502	0256-OCWP-CS-V-046: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56503	0256-OCWP-CS-V-047: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56504	0256-OCWP-CS-V-048: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56505	0256-OCWP-CS-HTR-001: CONDENSER SUPPLY INLET TO COOLING TOWER INSULATION HEATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56506	0256-OCWP-CS-CT-001: CONDENSER SUPPLY COOLING TOWER	SERIALIZED	COOLING TOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56507	0256-OCWP-CS-PH-001: CONDENSER SUPPLY CORROSION PH SENSOR	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56508	0256-OCWP-CS-PH-002: CONDENSER SUPPLY CORROSION PH SENSOR	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56509	0256-OCWP-CS-CU-001: CONDENSER SUPPLY CORROSION CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56510	0256-OCWP-CS-AOV-001: CONDENSER SUPPLY OUTLET FROM COOLING TOWER AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56511	0256-OCWP-CS-AOV-002: CONDENSER SUPPLY INLET TO HX AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56512	0256-OCWP-CS-AOV-003: CONDENSER SUPPLY INLET TO CHLR AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56513	0256-OCWP-CS-FO-001: CONDENSER SUPPLY TO CFS FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56514	0256-OCWP-CS-RV-001: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56515	0256-OCWP-CS-RV-002: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56516	0256-OCWP-CS-RV-003: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56517	0256-OCWP-CS-RV-004: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56518	0256-OCWP-CS-P-CNT-001: CONDENSER SUPPLY DISTRIBUTION PUMP #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56519	0256-OCWP-CS-P-CNT-002: CONDENSER SUPPLY DISTRIBUTION PUMP #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56520	0256-OCWP-CS-PT-001: CONDENSER SUPPLY PUMP 2 SUCTION PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56521	0256-OCWP-CS-PT-002: CONDENSER SUPPLY PUMP 2 DISCHARGE PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56522	0256-OCWP-CS-PT-003: CONDENSER SUPPLY PUMP 1 SUCTION PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56523	0256-OCWP-CS-PT-004: CONDENSER SUPPLY PUMP 1 DISCHARGE PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56524	0256-OCWP-CS-PT-005: CONDENSER SUPPLY INLET TO HX PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56525	0256-OCWP-CS-TT-001: CONDENSER SUPPLY TOWER WATER TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56526	0256-OCWP-CS-TT-002: CONDENSER SUPPLY INLET WATER TO HX TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56527	0256-OCWP-CS-YS-001: CONDENSER SUPPLY INLET TO PUMP #2 WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56528	0256-OCWP-CS-YS-002: CONDENSER SUPPLY INLET TO PUMP #1 WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56529	0256-OCWP-CS-YS-003: CONDENSER SUPPLY INLET TO HX WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56530	0256-OCWP-CS-PG-001: CONDENSER SUPPLY INLET TO TNK 1 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56531	0256-OCWP-CS-PG-002: CONDENSER SUPPLY INLET TO PUMP 2 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56532	0256-OCWP-CS-PG-003: CONDENSER SUPPLY INLET TO PUMP 1 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56533	0256-OCWP-CS-PG-004: CONDENSER SUPPLY INLET TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56534	0256-OCWP-CS-PG-005: CONDENSER SUPPLY INLET TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56535	0256-OCWP-CS-FIL-001: CONDENSER SUPPLY INFLOW FILTER TO CONTROL	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56536	0256-OCWP-CR-V-001: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56537	0256-OCWP-CR-V-002: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56538	0256-OCWP-CR-V-003: CONDENSER RETURN PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56539	0256-OCWP-CR-V-004: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56540	0256-OCWP-CR-V-005: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56541	0256-OCWP-CR-V-006: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56542	0256-OCWP-CR-V-007: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56543	0256-OCWP-CR-V-008: CONDENSER RETURN INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56544	0256-OCWP-CR-V-009: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56545	0256-OCWP-CR-V-010: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56546	0256-OCWP-CR-V-011: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56547	0256-OCWP-CR-V-012: CONDENSER RETURN FIL #2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56548	0256-OCWP-CR-V-013: CONDENSER RETURN INLET VALVE TO CON WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56549	0256-OCWP-CR-V-014: CONDENSER RETURN INLET ISOLATION VALVE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56550	0256-OCWP-CR-V-015: CONDENSER RETURN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56551	0256-OCWP-CR-V-016: CONDENSER RETURN OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56552	0256-OCWP-CR-V-017: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56553	0256-OCWP-CR-V-018: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56554	0256-OCWP-CR-V-019: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56555	0256-OCWP-CR-V-020: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56556	0256-OCWP-CR-V-021: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56557	0256-OCWP-CR-V-022: CONDENSER RETURN PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56558	0256-OCWP-CR-V-023: CONDENSER RETURN PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56559	0256-OCWP-CR-V-024: CONDENSER RETURN PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56560	0256-OCWP-CR-V-025: CONDENSER RETURN OUTLET VALVE FROM HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56561	0256-OCWP-CR-V-026: CONDENSER RETURN FIL #3 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56562	0256-OCWP-CR-V-027: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56563	0256-OCWP-CR-V-028: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56564	0256-OCWP-CR-V-029: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56565	0256-OCWP-CR-V-030: CONDENSER RETURN ISOLATION VALVE TO COOLING	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56566	0256-OCWP-CR-V-031: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56567	0256-OCWP-CR-HTR-001: CONDENSER RETURN OUTLET TOWER WATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56568	0256-OCWP-CR-PT-001: CONDENSER RETURN OUTLET FROM HX PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56569	0256-OCWP-CR-AOV-001: CONDENSER RETURN BYPASS AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56570	0256-OCWP-CR-AOV-002: CONDENSER RETURN OUTLET AIR OPERATED VALVE TO COOLING TOWER	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56571	0256-OCWP-CR-AOV-003: CONDENSER RETURN 3-WAY AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56572	0256-OCWP-CR-AOV-004: CONDENSER RETURN INLET AIR OPERATED VALVE TO COOLING TOWER	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56573	0256-OCWP-CR-FIL-001: CONDENSER WATER RETURN FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56574	0256-OCWP-CR-FIL-002: CONDENSER WATER RETURN FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56575	0256-OCWP-CR-FO-001: CONDENSER RETURN DRAIN WATER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56576	0256-OCWP-CR-FO-002: CONDENSER RETURN DRAIN WATER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56577	0256-OCWP-CR-YS-001: CONDENSER RETURN DRAIN WATER STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56578	0256-OCWP-CR-PG-001: CONDENSER RETURN OUTLET FROM HX PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56579	0256-OCWP-CR-SOV-001: CONDENSER RETURN DRAIN WATER SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56580	0256-OCWP-CR-FM-001: CONDENSER RETURN WATER FROM HX FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56581	0256-OCWP-CR-FM-002: CONDENSER RETURN DRAIN WATER FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56582	0256-OCWP-CR-FM-003: CONDENSER RETURN WATER FROM CHLR FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56583	0256-OCWP-CR-TT-001: CONDENSER RETURN BYPASS TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56584	0256-OCWP-CR-TT-002: CONDENSER RETURN HX OUTLET TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56594	0256-OCWP-CHWS-V-001: CHILLED WATER SYSTEM SUPPLY OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56595	0256-OCWP-CHWS-V-002: CHILLED WATER SYSTEM RETURN INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56596	0256-OCWP-CHWS-V-003: CHILLED WATER SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56597	0256-OCWP-CHWS-V-004: CHILLED WATER SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56598	0256-OCWP-CHWS-V-005: CHILLED WATER SYSTEM RETURN ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56599	0256-OCWP-CHWS-V-006: CHILLED WATER SYSTEM SUPPLY INLET ISOLATION VALVE TO BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56600	0256-OCWP-CHWS-V-007: CHILLED WATER SYSTEM SUPPLY INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56601	0256-OCWP-CHWS-V-008: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56602	0256-OCWP-CHWS-V-009: CHILLED WATER SYSTEM SUPPLY INLET VALVE TO BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56603	0256-OCWP-CHWS-V-010: CHILLED WATER SYSTEM INLET VALVE TO CHILLED WATER RETURN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56604	0256-OCWP-CHWS-V-011: CHILLED WATER SYSTEM RETURN OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56605	0256-OCWP-CHWS-V-012: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56606	0256-OCWP-CHWS-V-013: CHILLED WATER SYSTEM RETURN OUTLET VALVE FROM BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56607	0256-OCWP-CHWS-V-014: CHILLED WATER SYSTEM RETURN ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56608	0256-OCWP-CHWS-V-015: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56609	0256-OCWP-CHWS-V-016: CHILLED WATER SYSTEM RETURN ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56610	0256-OCWP-CHWS-V-017: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56611	0256-OCWP-CHWS-V-018: CHILLED WATER SYSTEM SUPPLY ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56612	0256-OCWP-CHWS-V-019: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56613	0256-OCWP-CHWS-V-020: CHILLED WATER SYSTEM SUPPLY ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56614	0256-OCWP-CHWS-V-021: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56615	0256-OCWP-CHWS-V-022: CHILLED WATER SYSTEM RETURN ISOLATION VALVE FROM FIL #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56616	0256-OCWP-CHWS-V-023: CHILLED WATER SYSTEM RETURN ISOLATION VALVE FROM FIL #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56617	0256-OCWP-CHWS-V-024: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56618	0256-OCWP-CHWS-V-025: CHILLED WATER SYSTEM RETURN PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56619	0256-OCWP-CHWS-V-026: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56620	0256-OCWP-CHWS-V-027: CHILLED WATER SYSTEM RETURNPRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56621	0256-OCWP-CHWS-V-028: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56622	0256-OCWP-CHWS-V-029: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #3	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56623	0256-OCWP-CHWS-V-030: CHILLED WATER SYSTEM SAMPLE TAP ISOLATION VALVE FROM FILTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56624	0256-OCWP-CHWS-V-031: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56625	0256-OCWP-CHWS-V-032: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56626	0256-OCWP-CHWS-V-033: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56627	0256-OCWP-CHWS-V-034: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56628	0256-OCWP-CHWS-V-035: CHILLED WATER SYSTEM RETURN CAPPED VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56629	0256-OCWP-CHWS-V-036: CHILLED WATER SYSTEM RETURN INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56630	0256-OCWP-CHWS-V-037: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56631	0256-OCWP-CHWS-V-038: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56632	0256-OCWP-CHWS-V-039: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56633	0256-OCWP-CHWS-V-040: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56634	0256-OCWP-CHWS-V-041: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56635	0256-OCWP-CHWS-V-042: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56636	0256-OCWP-CHWS-V-043: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56637	0256-OCWP-CHWS-V-044: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56638	0256-OCWP-CHWS-V-045: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56639	0256-OCWP-CHWS-V-046: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56640	0256-OCWP-CHWS-V-047: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56641	0256-OCWP-CHWS-V-048: CHILLED WATER SYSTEM SUPPLY OUTLET ISOLATION VALVE FROM PUMP #1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56642	0256-OCWP-CHWS-V-049: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56643	0256-OCWP-CHWS-V-050: CHILLED WATER SYSTEM SUPPLY INLET ISOLATION VALVE TO PUMP #2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56644	0256-OCWP-CHWS-V-051: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56645	0256-OCWP-CHWS-V-052: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56646	0256-OCWP-CHWS-V-053: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56647	0256-OCWP-CHWS-V-054: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56648	0256-OCWP-CHWS-V-055: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56649	0256-OCWP-CHWS-V-056: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56650	0256-OCWP-CHWS-V-057: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56651	0256-OCWP-CHWS-V-058: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56652	0256-OCWP-CHWS-V-059: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56653	0256-OCWP-CHWS-V-060: CHILLED WATER SYSTEM SUPPLY OUTLET ISOLATION VALVE FROM PUMP #2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56654	0256-OCWP-CHWS-V-061: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56655	0256-OCWP-CHWS-V-061: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56656	0256-OCWP-CHWS-V-062: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56658	0256-OCWP-CHWS-V-063: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56659	0256-OCWP-CHWS-V-064: CHILLED WATER SYSTEM RETURN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56660	0256-OCWP-CHWS-V-065: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56661	0256-OCWP-CHWS-V-066: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56662	0256-OCWP-CHWS-V-067: CHILLED WATER SYSTEM SUPPLY CAPPED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56663	0256-OCWP-CHWS-V-068: CHILLED WATER SYSTEM SUPPLY FILTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56664	0256-OCWP-CHWS-V-069: CHILLED WATER SYSTEM SUPPLY TO CHILLER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56665	0256-OCWP-CHWS-V-070: CHILLED WATER SYSTEM SUPPLY CAPPED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56666	0256-OCWP-CHWS-V-071: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56667	0256-OCWP-CHWS-V-072: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56668	0256-OCWP-CHWS-V-073: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56669	0256-OCWP-CHWS-V-074: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56670	0256-OCWP-CHWS-V-075: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56671	0256-OCWP-CHWS-V-076: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56672	0256-OCWP-CHWS-V-077: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56673	0256-OCWP-CHWS-V-078: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56674	0256-OCWP-CHWS-V-079: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56675	0256-OCWP-CHWS-V-080: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56676	0256-OCWP-CHWS-V-081: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56677	0256-OCWP-CHWS-V-082: CHILLED WATER SYSTEM SUPPLY OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56678	0256-OCWP-CHWS-V-083: CHILLED WATER SYSTEM SUPPLY FILTER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56679	0256-OCWP-CHWS-V-084: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56680	0256-OCWP-CHWS-V-085: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56681	0256-OCWP-CHWS-V-086: CHILLED WATER SYSTEM SUPPLY OUTLET FROM HX ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56682	0256-OCWP-CHWS-V-087: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56683	0256-OCWP-CHWS-V-088: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56684	0256-OCWP-CHWS-V-089: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56685	0256-OCWP-CHWS-V-090: CHILLED WATER SYSTEM SUPPLY INLET TO HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56686	0256-OCWP-CHWS-V-091: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56687	0256-OCWP-CHWS-V-092: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56688	0256-OCWP-CHWS-V-093: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56689	0256-OCWP-CHWS-V-094: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56690	0256-OCWP-CHWS-V-095: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56691	0256-OCWP-CHWS-PT-001: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56692	0256-OCWP-CHWS-PT-002: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56693	0256-OCWP-CHWS-PT-003: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56694	0256-OCWP-CHWS-PT-004: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56695	0256-OCWP-CHWS-PT-005: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56696	0256-OCWP-CHWS-PT-006: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56697	0256-OCWP-CHWS-PT-007: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56698	0256-OCWP-CHWS-PT-008: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56699	0256-OCWP-CHWS-PT-009: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56700	0256-OCWP-CHWS-PG-001: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56701	0256-OCWP-CHWS-PG-002: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

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56702	0256-OCWP-CHWS-PG-003: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56703	0256-OCWP-CHWS-PG-004: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56704	0256-OCWP-CHWS-PG-005: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56705	0256-OCWP-CHWS-PG-006: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56706	0256-OCWP-CHWS-PG-007: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56707	0256-OCWP-CHWS-PG-008: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56708	0256-OCWP-CHWS-TT-001: CHILLED WATER SYSTEM RETURN TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56709	0256-OCWP-CHWS-TT-002: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56710	0256-OCWP-CHWS-TT-003: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56711	0256-OCWP-CHWS-TT-004: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56712	0256-OCWP-CHWS-CHLR-001: CHILLED WATER SYSTEM CHILLER #1	SERIALIZED	CHILLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56713	0256-OCWP-CHWS-FDR-001: CHILLED WATER SYSTEM BYPASS FEEDER	SERIALIZED	FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56714	0256-OCWP-CHWS-HX-001: CHILLED WATER SYSTEM HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56715	0256-OCWP-CHWS-FIL-002: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56716	0256-OCWP-CHWS-FIL-003: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56717	0256-OCWP-CHWS-CV-001: CHILLED WATER SYSTEM RETURN OUTLET FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56718	0256-OCWP-CHWS-CV-002: CHILLED WATER SYSTEM RETURN BACKWASH FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56719	0256-OCWP-CHWS-CV-003: CHILLED WATER SYSTEM RETURN DRAIN FLOW	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56720	0256-OCWP-CHWS-CV-004: CHILLED WATER SYSTEM RETURN INLET FLOW	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56721	0256-OCWP-CHWS-AOV-001: CHILLED WATER SYSTEM SUPPLY AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56722	0256-OCWP-CHWS-AOV-002: CHILLED WATER SYSTEM SUPPLY AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56723	0256-OCWP-CHWS-P-CNT-001: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56724	0256-OCWP-CHWS-P-CNT-002: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56725	0256-OCWP-CHWS-P-CNT-003: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #3	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56726	0256-OCWP-CHWS-FIL-001: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56727	0256-OCWP-CHWS-YS-001: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56728	0256-OCWP-CHWS-YS-002: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56729	0256-OCWP-CHWS-YS-003: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56730	0256-OCWP-CHWS-FM-001: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56731	0256-OCWP-CHWS-FM-002: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56732	0256-OCWP-CHWS-RV-001: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #1	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56733	0256-OCWP-CHWS-RV-002: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #2	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56734	0256-OCWP-CHWS-RV-003: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #3	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56735	0256-OCWP-CHWS-FO-001: CHILLED WATER SYSTEM RETURN FROM FIL 1	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56736	0256-OCWP-CHWS-SG-001: CHILLED WATER SYSTEM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56737	0256-OCWP-CON-V-001: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56738	0256-OCWP-CON-V-002: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56739	0256-OCWP-CON-V-003: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56740	0256-OCWP-CON-V-004: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56741	0256-OCWP-CON-V-005: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56742	0256-OCWP-CON-V-006: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56743	0256-OCWP-CON-V-007: CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56744	0256-OCWP-CON-V-008: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56745	0256-OCWP-CON-V-009: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56746	0256-OCWP-CON-V-010: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56747	0256-OCWP-CON-V-011: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56748	0256-OCWP-CON-V-012: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56749	0256-OCWP-CON-V-013: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56750	0256-OCWP-CON-V-014: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56751	0256-OCWP-CON-V-015: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56752	0256-OCWP-CON-V-016: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56753	0256-OCWP-CON-V-017: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56754	0256-OCWP-CON-V-018: CONDENSATE SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56755	0256-OCWP-CON-V-019: CONDENSATE SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56756	0256-OCWP-CON-V-020: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56757	0256-OCWP-CON-V-021: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56758	0256-OCWP-CON-V-022: CONDENSATE SYSTEM WATER COLUMN ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56759	0256-OCWP-CON-V-023: CONDENSATE SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56760	0256-OCWP-CON-V-024: CONDENSATE SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56761	0256-OCWP-CON-V-025: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56762	0256-OCWP-CON-V-026: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56763	0256-OCWP-CON-V-027: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56764	0256-OCWP-CON-V-028: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56765	0256-OCWP-CON-V-029: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56766	0256-OCWP-CON-V-030: CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56767	0256-OCWP-CON-V-031: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56768	0256-OCWP-CON-V-032: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56769	0256-OCWP-CON-V-033: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56770	0256-OCWP-CON-V-034: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56771	0256-OCWP-CON-V-035: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56772	0256-OCWP-CON-V-036: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56773	0256-OCWP-CON-V-037: CONDENSATE SYSTEM INLET VALVE FROM MPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56774	0256-OCWP-CON-V-038: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56775	0256-OCWP-CON-V-039: CONDENSATE SYSTEM INLET VALVE FROM MPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56776	0256-OCWP-CON-V-040: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56777	0256-OCWP-CON-P-CNT-001: CONDENSATE SYSTEM DRISTRIBUTION	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56778	0256-OCWP-CON-P-CNT-002: CONDENSATE SYSTEM DRISTRIBUTION	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56779	0256-OCWP-CON-WC-001: CONDENSATE SYSTEM TNK #1 WATER	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56780	0256-OCWP-CON-TRAP-001: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56781	0256-OCWP-CON-TRAP-002: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56782	0256-OCWP-CON-TRAP-003: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56783	0256-OCWP-CON-TRAP-004: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56784	0256-OCWP-CON-TRAP-005: CONDENSATE SYSTEM TRAP FROM PWS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56785	0256-OCWP-CON-TRAP-006: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56786	0256-OCWP-CON-TRAP-007: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56787	0256-OCWP-CON-TRAP-008: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56788	0256-OCWP-CON-TRAP-009: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56789	0256-OCWP-CON-TRAP-010: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56790	0256-OCWP-CON-TRAP-011: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56791	0256-OCWP-CON-TRAP-012: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56792	0256-OCWP-CON-TRAP-013: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56793	0256-OCWP-CON-TRAP-014: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56794	0256-OCWP-CON-TRAP-015: CONDENSATE SYSTEM TRAP FROM LPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56795	0256-OCWP-CON-TRAP-016: CONDENSATE SYSTEM TRAP FROM LPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56796	0256-OCWP-CON-CHK-001: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56797	0256-OCWP-CON-CHK-002: CONDENSATE SYSTEM FROM MPS ACD	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56798	0256-OCWP-CON-CHK-003: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56799	0256-OCWP-CON-CHK-004: CONDENSATE SYSTEM FROM PWS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56800	0256-OCWP-CON-CHK-005: CONDENSATE SYSTEM FROM PWS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56801	0256-OCWP-CON-CHK-006: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56802	0256-OCWP-CON-CHK-007: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56803	0256-OCWP-CON-CHK-008: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56804	0256-OCWP-CON-CHK-009: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56805	0256-OCWP-CON-CHK-010: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56806	0256-OCWP-CON-CHK-011: CONDENSATE SYSTEM FROM MPS ACD	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56807	0256-OCWP-CON-CHK-012: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56808	0256-OCWP-CON-CHK-013: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56809	0256-OCWP-CON-CHK-014: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56810	0256-OCWP-CON-CHK-015: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56811	0256-OCWP-CON-CHK-016: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56812	0256-OCWP-CON-CHK-017: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56813	0256-OCWP-CON-CHK-018: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56814	0256-OCWP-CON-CHK-019: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56815	0256-OCWP-CON-TNK-001: CONDENSATE SYSTEM STORAGE TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56816	0256-OCWP-CON-HTR-001: CONDENSATE SYSTEM OUTLET TO MAIN PLANT INSULATION HEATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56817	0256-OCWP-CFS-V-001: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56818	0256-OCWP-CFS-V-002: CHEMICAL FEED SYSTEM OUTLET FROM TNK 1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56819	0256-OCWP-CFS-V-003: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56820	0256-OCWP-CFS-V-004: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56821	0256-OCWP-CFS-V-005: CHEMICAL FEED SYSTEM TNK #1 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56822	0256-OCWP-CFS-V-006: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56823	0256-OCWP-CFS-V-007: CHEMICAL FEED SYSTEM OUTLET FROM TNK 2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56824	0256-OCWP-CFS-V-008: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56825	0256-OCWP-CFS-V-009: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56826	0256-OCWP-CFS-V-010: CHEMICAL FEED SYSTEM TNK #2 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56827	0256-OCWP-CFS-V-011: CHEMICAL FEED SYSTEM INLET VALVE FROM CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56828	0256-OCWP-CFS-V-012: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56829	0256-OCWP-CFS-V-013: CHEMICAL FEED SYSTEM TNK #3 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56830	0256-OCWP-CFS-V-014: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56831	0256-OCWP-CFS-V-015: CHEMICAL FEED SYSTEM 3-WAY BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56832	0256-OCWP-CFS-V-016: CHEMICAL FEED SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56833	0256-OCWP-CFS-V-017: CHEMICAL FEED SYSTEM WATER COLUMN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56834	0256-OCWP-CFS-V-018: CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56835	0256-OCWP-CFS-V-019: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56836	0256-OCWP-CFS-V-020: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56837	0256-OCWP-CFS-V-021: CHEMICAL FEED SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56838	0256-OCWP-CFS-V-022: CHEMICAL FEED SYSTEM OUTLET VALVE TO CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56839	0256-OCWP-CFS-V-023: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56840	0256-OCWP-CFS-V-024: CHEMICAL FEED SYSTEM OUTLET FROM TNK 4	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56841	0256-OCWP-CFS-V-025: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56842	0256-OCWP-CFS-V-026: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56843	0256-OCWP-CFS-V-027: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56844	0256-OCWP-CFS-V-028: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56845	0256-OCWP-CFS-V-029: CHEMICAL FEED SYSTEM OUTLET FROM TNK 5	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56846	0256-OCWP-CFS-V-030: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56847	0256-OCWP-CFS-V-031: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56848	0256-OCWP-CFS-V-032: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56849	0256-OCWP-CFS-V-033: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56850	0256-OCWP-CFS-V-034: CHEMICAL FEED SYSTEM OUTLET FROM TNK 6	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56851	0256-OCWP-CFS-V-035: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56852	0256-OCWP-CFS-V-036: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56853	0256-OCWP-CFS-V-037: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56854	0256-OCWP-CFS-V-038: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56855	0256-OCWP-CFS-V-039: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56856	0256-OCWP-CFS-V-040: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56857	0256-OCWP-CFS-V-041: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56858	0256-OCWP-CFS-V-042: CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56859	0256-OCWP-CFS-P-001: CHEMICAL FEED SYSTEM TNK #1 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56860	0256-OCWP-CFS-P-002: CHEMICAL FEED SYSTEM TNK #2 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56861	0256-OCWP-CFS-P-003: CHEMICAL FEED SYSTEM TNK #3 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56862	0256-OCWP-CFS-P-004: CHEMICAL FEED SYSTEM TNK #4 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56863	0256-OCWP-CFS-P-005: CHEMICAL FEED SYSTEM TNK #5 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56864	0256-OCWP-CFS-P-006: CHEMICAL FEED SYSTEM TNK #6 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56865	0256-OCWP-CFS-P-007: CHEMICAL FEED SYSTEM TNK #7 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56866	0256-OCWP-CFS-WC-001: CHEMICAL FEED SYSTEM TNK #1 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56867	0256-OCWP-CFS-WC-002: CHEMICAL FEED SYSTEM TNK #2 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56868	0256-OCWP-CFS-WC-003: CHEMICAL FEED SYSTEM WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56870	0256-OCWP-CFS-WC-004: CHEMICAL FEED SYSTEM TNK #4 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56871	0256-OCWP-CFS-WC-005: CHEMICAL FEED SYSTEM TNK #5 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56872	0256-OCWP-CFS-WC-006: CHEMICAL FEED SYSTEM TNK #6 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56873	0256-OCWP-CFS-FIL-001: CHEMICAL FEED SYSTEM OUTLET FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56874	0256-OCWP-CFS-FIL-002: CHEMICAL FEED SYSTEM TNK #7 & 8 OUTLET	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56875	0256-OCWP-CFS-FIL-003: CHEMICAL FEED SYSTEM TNK #7 & 8 OUTLET	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56876	0256-OCWP-CFS-PG-001: CHEMICAL FEED SYSTEM OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56877	0256-OCWP-CFS-PG-002: CHEMICAL FEED SYSTEM TNK #7 OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56883	0256-OCWP-CFS-TRAP-001: CHEMICAL FEED SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56884	0256-OCWP-CFS-FO-001: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56885	0256-OCWP-CFS-FO-002: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56886	0256-OCWP-CFS-FO-003: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56887	0256-OCWP-CFS-CU-001: CHEMICAL FEED SYSTEM PH SENSOR CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56888	0256-OCWP-CFS-PH-001: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56889	0256-OCWP-CFS-PH-002: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56890	0256-OCWP-CFS-PH-003: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56891	0256-OCWP-CFS-PH-004: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56892	0256-OCWP-CFS-PH-005: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
64979	AUTOMATIC EXTERNAL DEFIBRILLATOR (AED), 0256 CWPO	SERIALIZED	SAFETY DEVICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
65353	EMERGENCY LIGHTS, SYSTEM, 0256 BUILDING WIDE EMERGENCY AND EXIT LIGHTING SEE RELATED DOCUMENTS FOR FLOOR	SYSTEM	EMERGENCY LIGHTING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
256	OAKDALE CHILLED WATER PLANT	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18838	256-101-CPW-BFP-2 : BFP - NEW ADDITION, WEST MECH RM, MAIN FLOOR, NORTH END, TOP UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18839	256-101-CPW-BFP-3 : BFP - WEST WALL, NORTH END, BOTTOM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
18840	256-101-FW-BFP-1 : BFP - NEW ADDITION, MAIN FLOOR, WEST MECH	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
52488	256-101-CPW-BFP-1 : BFP, MAIN FLOOR, WEST WALL, TOP UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
52489	256-101-CPW-BFP-4 : BFP, MAIN FLOOR, WEST WALL, BOTTOM UNIT	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56035	0256- CHILLED WATER MECHANICAL DISTRIBUTION : CHILLED WATER DISTRIBUTION NETWORK OAKDALE	SERIALIZED	PIPING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56398	0256-OCWP-AIR-V-001: AIR SYSTEM PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56399	0256-OCWP-AIR-V-002: AIR SYSTEM PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56400	0256-OCWP-AIR-V-003: AIR SYSTEM HOSEBIB ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56401	0256-OCWP-AIR-V-004: AIR SYSTEM ISOLATION VALVE TO HOT WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56402	0256-OCWP-AIR-V-005: AIR SYSTEM CONTROL UNIT ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56403	0256-OCWP-AIR-V-006: AIR SYSTEM MPS AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56404	0256-OCWP-AIR-V-007: AIR SYSTEM MPS AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56405	0256-OCWP-AIR-V-008: AIR SYSTEM CWS AOV #1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56406	0256-OCWP-AIR-V-009: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56407	0256-OCWP-AIR-V-010: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56408	0256-OCWP-AIR-V-011: AIR SYSTEM HOSEBIB ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56409	0256-OCWP-AIR-V-012: AIR SYSTEM CWS AOV #2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56410	0256-OCWP-AIR-V-013: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56411	0256-OCWP-AIR-V-014: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56412	0256-OCWP-AIR-V-015: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56413	0256-OCWP-AIR-V-016: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56414	0256-OCWP-AIR-V-017: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56415	0256-OCWP-AIR-V-018: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56416	0256-OCWP-AIR-V-019: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56417	0256-OCWP-AIR-V-020: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56418	0256-OCWP-AIR-V-021: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56419	0256-OCWP-AIR-V-022: AIR SYSTEM CON AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56420	0256-OCWP-AIR-V-023: AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56421	0256-OCWP-AIR-FIL-001: AIR SYSTEM INLET FILTER TO MPS HEATER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56422	0256-OCWP-AIR-FIL-002: AIR SYSTEM FILTER TO MPS AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56423	0256-OCWP-AIR-FIL-003: AIR SYSTEM FILTER TO CWS AOV #1	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56424	0256-OCWP-AIR-FIL-004: AIR SYSTEM FILTER TO CWS AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56425	0256-OCWP-AIR-FIL-005: AIR SYSTEM FILTER TO CON AOV #5	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56426	0256-OCWP-AIR-FIL-006: AIR SYSTEM FILTER TO CON AOV #4	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56427	0256-OCWP-AIR-FIL-007: AIR SYSTEM FILTER TO CON AOV #2	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56428	0256-OCWP-AIR-FIL-008: AIR SYSTEM FILTER TO CON AOV #6	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56429	0256-OCWP-AIR-FIL-009: AIR SYSTEM FILTER TO CON AOV #3	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56430	0256-OCWP-AIR-FIL-010: AIR SYSTEM FILTER TO CON AOV #7	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56431	0256-OCWP-AIR-FIL-011: AIR SYSTEM FILTER TO CON AOV #1	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56432	0256-OCWP-AIR-REG-001: AIR SYSTEM TO MPS AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56433	0256-OCWP-AIR-REG-002: AIR SYSTEM TO MPS AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56434	0256-OCWP-AIR-REG-003: AIR SYSTEM TO CHWS AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56435	0256-OCWP-AIR-REG-004: AIR SYSTEM TO CHWS AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56436	0256-OCWP-AIR-REG-005: AIR SYSTEM TO CON AOV #5 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56437	0256-OCWP-AIR-REG-006: AIR SYSTEM TO CON AOV #4 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56438	0256-OCWP-AIR-REG-007: AIR SYSTEM TO CON AOV #2 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56439	0256-OCWP-AIR-REG-008: AIR SYSTEM TO CON AOV #6 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56440	0256-OCWP-AIR-REG-009: AIR SYSTEM TO CON AOV #3 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56441	0256-OCWP-AIR-REG-010: AIR SYSTEM TO CON AOV #7 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56442	0256-OCWP-AIR-REG-011: AIR SYSTEM TO CON AOV #1 AIR SUPPLY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56443	0256-OCWP-AIR-PG-001: AIR SYSTEM FILTER #1 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56444	0256-OCWP-AIR-PG-002: AIR SYSTEM INLET TO MPS HEATER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56445	0256-OCWP-AIR-PG-003: AIR SYSTEM INLET TO MPS HEATER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56446	0256-OCWP-AIR-PG-004: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #1	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56447	0256-OCWP-AIR-PG-005: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #2	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56448	0256-OCWP-AIR-PG-006: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #3	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56449	0256-OCWP-AIR-PG-007: AIR SYSTEM PRESSURE GAUGE FOR CWS CV #4	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56450	0256-OCWP-AIR-PG-008: AIR SYSTEM FILTER #2 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56451	0256-OCWP-AIR-PG-009: AIR SYSTEM REGULATOR #2 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56452	0256-OCWP-AIR-CU-001: AIR SYSTEM CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56453	0256-OCWP-AIR-HB-001: AIR SYSTEM HOSEBIB MAIN FLOOR OCWP	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56454	0256-OCWP-AIR-HB-002: AIR SYSTEM HOSEBIB 2ND FLOOR OCWP	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56455	0256-OCWP-AIR-PT-001: AIR SYSTEM INLET PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56456	0256-OCWP-AIR-TS-001: AIR SYSTEM MPS WATER HEATER TEMPERATURE	SERIALIZED	SWITCH TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56457	0256-OCWP-CS-V-001: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56458	0256-OCWP-CS-V-002: CONDENSER SUPPLY ISOLATION VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56459	0256-OCWP-CS-V-003: CONDENSER SUPPLY OUTLET VALVE TO PWS FILTERS	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56460	0256-OCWP-CS-V-004: CONDENSER SUPPLY INLET VALVE FROM PWS	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56461	0256-OCWP-CS-V-005: CONDENSER SUPPLY OUTLET VALVE TO CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56462	0256-OCWP-CS-V-006: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56463	0256-OCWP-CS-V-007: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56464	0256-OCWP-CS-V-008: CONDENSER SUPPLY OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56465	0256-OCWP-CS-V-009: CONDENSER SUPPLY INLET VALVE TO CONTROL UNIT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56466	0256-OCWP-CS-V-010: CONDENSER SUPPLY FIL #1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56467	0256-OCWP-CS-V-011: CONDENSER SUPPLY OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56468	0256-OCWP-CS-V-012: CONDENSER SUPPLY OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56469	0256-OCWP-CS-V-013: CONDENSER SUPPLY TOWER WATER INLET VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56470	0256-OCWP-CS-V-014: CONDENSER SUPPLY BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56471	0256-OCWP-CS-V-015: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56472	0256-OCWP-CS-V-016: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56473	0256-OCWP-CS-V-017: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56474	0256-OCWP-CS-V-018: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56475	0256-OCWP-CS-V-019: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56476	0256-OCWP-CS-V-020: CONDENSER SUPPLY PUMP #2 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56477	0256-OCWP-CS-V-021: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56478	0256-OCWP-CS-V-022: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56479	0256-OCWP-CS-V-023: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56480	0256-OCWP-CS-V-024: CONDENSER SUPPLY INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56481	0256-OCWP-CS-V-025: CONDENSER SUPPLY CHEMICAL FEED INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56482	0256-OCWP-CS-V-026: CONDENSER SUPPLY TOWER WATER INLET VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56483	0256-OCWP-CS-V-027: CONDENSER SUPPLY BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56484	0256-OCWP-CS-V-028: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56485	0256-OCWP-CS-V-029: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56486	0256-OCWP-CS-V-030: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56487	0256-OCWP-CS-V-031: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56488	0256-OCWP-CS-V-032: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56489	0256-OCWP-CS-V-033: CONDENSER SUPPLY PUMP #1 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56490	0256-OCWP-CS-V-034: CONDENSER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56491	0256-OCWP-CS-V-035: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56492	0256-OCWP-CS-V-036: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56493	0256-OCWP-CS-V-037: CONDENSER SUPPLY INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56494	0256-OCWP-CS-V-038: CONDENSER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56495	0256-OCWP-CS-V-039: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56496	0256-OCWP-CS-V-040: CONDENSER SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56497	0256-OCWP-CS-V-041: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56498	0256-OCWP-CS-V-042: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56499	0256-OCWP-CS-V-043: CONDENSER SUPPLY PRESSURE TRANSMITTER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56500	0256-OCWP-CS-V-044: CONDENSER SUPPLY INLET VALVE TO HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56501	0256-OCWP-CS-V-045: CONDENSER SUPPLY OUTLET VALVE FROM CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56502	0256-OCWP-CS-V-046: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56503	0256-OCWP-CS-V-047: CONDENSER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56504	0256-OCWP-CS-V-048: CONDENSER SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56505	0256-OCWP-CS-HTR-001: CONDENSER SUPPLY INLET TO COOLING TOWER INSULATION HEATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56506	0256-OCWP-CS-CT-001: CONDENSER SUPPLY COOLING TOWER	SERIALIZED	COOLING TOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56507	0256-OCWP-CS-PH-001: CONDENSER SUPPLY CORROSION PH SENSOR	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56508	0256-OCWP-CS-PH-002: CONDENSER SUPPLY CORROSION PH SENSOR	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56509	0256-OCWP-CS-CU-001: CONDENSER SUPPLY CORROSION CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56510	0256-OCWP-CS-AOV-001: CONDENSER SUPPLY OUTLET FROM COOLING TOWER AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56511	0256-OCWP-CS-AOV-002: CONDENSER SUPPLY INLET TO HX AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56512	0256-OCWP-CS-AOV-003: CONDENSER SUPPLY INLET TO CHLR AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56513	0256-OCWP-CS-FO-001: CONDENSER SUPPLY TO CFS FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56514	0256-OCWP-CS-RV-001: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56515	0256-OCWP-CS-RV-002: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56516	0256-OCWP-CS-RV-003: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56517	0256-OCWP-CS-RV-004: CONDENSER SUPPLY RELIEF DRAIN VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56518	0256-OCWP-CS-P-CNT-001: CONDENSER SUPPLY DISTRIBUTION PUMP #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56519	0256-OCWP-CS-P-CNT-002: CONDENSER SUPPLY DISTRIBUTION PUMP #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56520	0256-OCWP-CS-PT-001: CONDENSER SUPPLY PUMP 2 SUCTION PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56521	0256-OCWP-CS-PT-002: CONDENSER SUPPLY PUMP 2 DISCHARGE PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56522	0256-OCWP-CS-PT-003: CONDENSER SUPPLY PUMP 1 SUCTION PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56523	0256-OCWP-CS-PT-004: CONDENSER SUPPLY PUMP 1 DISCHARGE PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56524	0256-OCWP-CS-PT-005: CONDENSER SUPPLY INLET TO HX PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56525	0256-OCWP-CS-TT-001: CONDENSER SUPPLY TOWER WATER TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56526	0256-OCWP-CS-TT-002: CONDENSER SUPPLY INLET WATER TO HX TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56527	0256-OCWP-CS-YS-001: CONDENSER SUPPLY INLET TO PUMP #2 WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56528	0256-OCWP-CS-YS-002: CONDENSER SUPPLY INLET TO PUMP #1 WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56529	0256-OCWP-CS-YS-003: CONDENSER SUPPLY INLET TO HX WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56530	0256-OCWP-CS-PG-001: CONDENSER SUPPLY INLET TO TNK 1 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56531	0256-OCWP-CS-PG-002: CONDENSER SUPPLY INLET TO PUMP 2 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56532	0256-OCWP-CS-PG-003: CONDENSER SUPPLY INLET TO PUMP 1 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56533	0256-OCWP-CS-PG-004: CONDENSER SUPPLY INLET TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56534	0256-OCWP-CS-PG-005: CONDENSER SUPPLY INLET TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56535	0256-OCWP-CS-FIL-001: CONDENSER SUPPLY INFLOW FILTER TO CONTROL	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56536	0256-OCWP-CR-V-001: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56537	0256-OCWP-CR-V-002: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56538	0256-OCWP-CR-V-003: CONDENSER RETURN PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56539	0256-OCWP-CR-V-004: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56540	0256-OCWP-CR-V-005: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56541	0256-OCWP-CR-V-006: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56542	0256-OCWP-CR-V-007: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56543	0256-OCWP-CR-V-008: CONDENSER RETURN INLET VALVE TO CON WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56544	0256-OCWP-CR-V-009: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56545	0256-OCWP-CR-V-010: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56546	0256-OCWP-CR-V-011: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56547	0256-OCWP-CR-V-012: CONDENSER RETURN FIL #2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56548	0256-OCWP-CR-V-013: CONDENSER RETURN INLET VALVE TO CON WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56549	0256-OCWP-CR-V-014: CONDENSER RETURN INLET ISOLATION VALVE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56550	0256-OCWP-CR-V-015: CONDENSER RETURN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56551	0256-OCWP-CR-V-016: CONDENSER RETURN OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56552	0256-OCWP-CR-V-017: CONDENSER RETURN BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56553	0256-OCWP-CR-V-018: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56554	0256-OCWP-CR-V-019: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56555	0256-OCWP-CR-V-020: CONDENSER RETURN FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56556	0256-OCWP-CR-V-021: CONDENSER RETURN FLOW METER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56557	0256-OCWP-CR-V-022: CONDENSER RETURN PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56558	0256-OCWP-CR-V-023: CONDENSER RETURN PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56559	0256-OCWP-CR-V-024: CONDENSER RETURN PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56560	0256-OCWP-CR-V-025: CONDENSER RETURN OUTLET VALVE FROM HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56561	0256-OCWP-CR-V-026: CONDENSER RETURN FIL #3 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56562	0256-OCWP-CR-V-027: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56563	0256-OCWP-CR-V-028: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56564	0256-OCWP-CR-V-029: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56565	0256-OCWP-CR-V-030: CONDENSER RETURN ISOLATION VALVE TO COOLING	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56566	0256-OCWP-CR-V-031: CONDENSER RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56567	0256-OCWP-CR-HTR-001: CONDENSER RETURN OUTLET TOWER WATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56568	0256-OCWP-CR-PT-001: CONDENSER RETURN OUTLET FROM HX PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56569	0256-OCWP-CR-AOV-001: CONDENSER RETURN BYPASS AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56570	0256-OCWP-CR-AOV-002: CONDENSER RETURN OUTLET AIR OPERATED VALVE TO COOLING TOWER	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56571	0256-OCWP-CR-AOV-003: CONDENSER RETURN 3-WAY AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56572	0256-OCWP-CR-AOV-004: CONDENSER RETURN INLET AIR OPERATED VALVE TO COOLING TOWER	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56573	0256-OCWP-CR-FIL-001: CONDENSER WATER RETURN FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56574	0256-OCWP-CR-FIL-002: CONDENSER WATER RETURN FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56575	0256-OCWP-CR-FO-001: CONDENSER RETURN DRAIN WATER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56576	0256-OCWP-CR-FO-002: CONDENSER RETURN DRAIN WATER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56577	0256-OCWP-CR-YS-001: CONDENSER RETURN DRAIN WATER STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56578	0256-OCWP-CR-PG-001: CONDENSER RETURN OUTLET FROM HX PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56579	0256-OCWP-CR-SOV-001: CONDENSER RETURN DRAIN WATER SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56580	0256-OCWP-CR-FM-001: CONDENSER RETURN WATER FROM HX FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56581	0256-OCWP-CR-FM-002: CONDENSER RETURN DRAIN WATER FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56582	0256-OCWP-CR-FM-003: CONDENSER RETURN WATER FROM CHLR FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56583	0256-OCWP-CR-TT-001: CONDENSER RETURN BYPASS TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56584	0256-OCWP-CR-TT-002: CONDENSER RETURN HX OUTLET TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56594	0256-OCWP-CHWS-V-001: CHILLED WATER SYSTEM SUPPLY OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56595	0256-OCWP-CHWS-V-002: CHILLED WATER SYSTEM RETURN INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56596	0256-OCWP-CHWS-V-003: CHILLED WATER SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56597	0256-OCWP-CHWS-V-004: CHILLED WATER SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56598	0256-OCWP-CHWS-V-005: CHILLED WATER SYSTEM RETURN ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56599	0256-OCWP-CHWS-V-006: CHILLED WATER SYSTEM SUPPLY INLET ISOLATION VALVE TO BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56600	0256-OCWP-CHWS-V-007: CHILLED WATER SYSTEM SUPPLY INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56601	0256-OCWP-CHWS-V-008: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56602	0256-OCWP-CHWS-V-009: CHILLED WATER SYSTEM SUPPLY INLET VALVE TO BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56603	0256-OCWP-CHWS-V-010: CHILLED WATER SYSTEM INLET VALVE TO CHILLED WATER RETURN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56604	0256-OCWP-CHWS-V-011: CHILLED WATER SYSTEM RETURN OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56605	0256-OCWP-CHWS-V-012: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56606	0256-OCWP-CHWS-V-013: CHILLED WATER SYSTEM RETURN OUTLET VALVE FROM BYPASS FEEDER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56607	0256-OCWP-CHWS-V-014: CHILLED WATER SYSTEM RETURN ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56608	0256-OCWP-CHWS-V-015: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56609	0256-OCWP-CHWS-V-016: CHILLED WATER SYSTEM RETURN ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56610	0256-OCWP-CHWS-V-017: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56611	0256-OCWP-CHWS-V-018: CHILLED WATER SYSTEM SUPPLY ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56612	0256-OCWP-CHWS-V-019: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56613	0256-OCWP-CHWS-V-020: CHILLED WATER SYSTEM SUPPLY ISOLATION VALVE TO PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56614	0256-OCWP-CHWS-V-021: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56615	0256-OCWP-CHWS-V-022: CHILLED WATER SYSTEM RETURN ISOLATION VALVE FROM FIL #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56616	0256-OCWP-CHWS-V-023: CHILLED WATER SYSTEM RETURN ISOLATION VALVE FROM FIL #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56617	0256-OCWP-CHWS-V-024: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56618	0256-OCWP-CHWS-V-025: CHILLED WATER SYSTEM RETURN PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56619	0256-OCWP-CHWS-V-026: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56620	0256-OCWP-CHWS-V-027: CHILLED WATER SYSTEM RETURNPRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56621	0256-OCWP-CHWS-V-028: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56622	0256-OCWP-CHWS-V-029: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #3	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56623	0256-OCWP-CHWS-V-030: CHILLED WATER SYSTEM SAMPLE TAP ISOLATION VALVE FROM FILTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56624	0256-OCWP-CHWS-V-031: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56625	0256-OCWP-CHWS-V-032: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56626	0256-OCWP-CHWS-V-033: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56627	0256-OCWP-CHWS-V-034: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56628	0256-OCWP-CHWS-V-035: CHILLED WATER SYSTEM RETURN CAPPED VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56629	0256-OCWP-CHWS-V-036: CHILLED WATER SYSTEM RETURN INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56630	0256-OCWP-CHWS-V-037: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56631	0256-OCWP-CHWS-V-038: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56632	0256-OCWP-CHWS-V-039: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56633	0256-OCWP-CHWS-V-040: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56634	0256-OCWP-CHWS-V-041: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56635	0256-OCWP-CHWS-V-042: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56636	0256-OCWP-CHWS-V-043: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56637	0256-OCWP-CHWS-V-044: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56638	0256-OCWP-CHWS-V-045: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56639	0256-OCWP-CHWS-V-046: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56640	0256-OCWP-CHWS-V-047: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56641	0256-OCWP-CHWS-V-048: CHILLED WATER SYSTEM SUPPLY OUTLET ISOLATION VALVE FROM PUMP #1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56642	0256-OCWP-CHWS-V-049: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56643	0256-OCWP-CHWS-V-050: CHILLED WATER SYSTEM SUPPLY INLET ISOLATION VALVE TO PUMP #2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56644	0256-OCWP-CHWS-V-051: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56645	0256-OCWP-CHWS-V-052: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56646	0256-OCWP-CHWS-V-053: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56647	0256-OCWP-CHWS-V-054: CHILLED WATER SYSTEM RETURN PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56648	0256-OCWP-CHWS-V-055: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56649	0256-OCWP-CHWS-V-056: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56650	0256-OCWP-CHWS-V-057: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56651	0256-OCWP-CHWS-V-058: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56652	0256-OCWP-CHWS-V-059: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56653	0256-OCWP-CHWS-V-060: CHILLED WATER SYSTEM SUPPLY OUTLET ISOLATION VALVE FROM PUMP #2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56654	0256-OCWP-CHWS-V-061: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56655	0256-OCWP-CHWS-V-061: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56656	0256-OCWP-CHWS-V-062: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56658	0256-OCWP-CHWS-V-063: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56659	0256-OCWP-CHWS-V-064: CHILLED WATER SYSTEM RETURN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56660	0256-OCWP-CHWS-V-065: CHILLED WATER SYSTEM RETURN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56661	0256-OCWP-CHWS-V-066: CHILLED WATER SYSTEM RETURN INLET ISOLATION VALVE TO PUMP #1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56662	0256-OCWP-CHWS-V-067: CHILLED WATER SYSTEM SUPPLY CAPPED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56663	0256-OCWP-CHWS-V-068: CHILLED WATER SYSTEM SUPPLY FILTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56664	0256-OCWP-CHWS-V-069: CHILLED WATER SYSTEM SUPPLY TO CHILLER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56665	0256-OCWP-CHWS-V-070: CHILLED WATER SYSTEM SUPPLY CAPPED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56666	0256-OCWP-CHWS-V-071: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56667	0256-OCWP-CHWS-V-072: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56668	0256-OCWP-CHWS-V-073: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56669	0256-OCWP-CHWS-V-074: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56670	0256-OCWP-CHWS-V-075: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56671	0256-OCWP-CHWS-V-076: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56672	0256-OCWP-CHWS-V-077: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56673	0256-OCWP-CHWS-V-078: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56674	0256-OCWP-CHWS-V-079: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56675	0256-OCWP-CHWS-V-080: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56676	0256-OCWP-CHWS-V-081: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56677	0256-OCWP-CHWS-V-082: CHILLED WATER SYSTEM SUPPLY OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56678	0256-OCWP-CHWS-V-083: CHILLED WATER SYSTEM SUPPLY FILTER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56679	0256-OCWP-CHWS-V-084: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56680	0256-OCWP-CHWS-V-085: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56681	0256-OCWP-CHWS-V-086: CHILLED WATER SYSTEM SUPPLY OUTLET FROM HX ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56682	0256-OCWP-CHWS-V-087: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56683	0256-OCWP-CHWS-V-088: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56684	0256-OCWP-CHWS-V-089: CHILLED WATER SYSTEM SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56685	0256-OCWP-CHWS-V-090: CHILLED WATER SYSTEM SUPPLY INLET TO HX	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56686	0256-OCWP-CHWS-V-091: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56687	0256-OCWP-CHWS-V-092: CHILLED WATER SYSTEM SUPPLY PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56688	0256-OCWP-CHWS-V-093: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56689	0256-OCWP-CHWS-V-094: CHILLED WATER SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56690	0256-OCWP-CHWS-V-095: CHILLED WATER SYSTEM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56691	0256-OCWP-CHWS-PT-001: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56692	0256-OCWP-CHWS-PT-002: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56693	0256-OCWP-CHWS-PT-003: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56694	0256-OCWP-CHWS-PT-004: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56695	0256-OCWP-CHWS-PT-005: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56696	0256-OCWP-CHWS-PT-006: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56697	0256-OCWP-CHWS-PT-007: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56698	0256-OCWP-CHWS-PT-008: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56699	0256-OCWP-CHWS-PT-009: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56700	0256-OCWP-CHWS-PG-001: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56701	0256-OCWP-CHWS-PG-002: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56702	0256-OCWP-CHWS-PG-003: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56703	0256-OCWP-CHWS-PG-004: CHILLED WATER SYSTEM RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56704	0256-OCWP-CHWS-PG-005: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56705	0256-OCWP-CHWS-PG-006: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56706	0256-OCWP-CHWS-PG-007: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56707	0256-OCWP-CHWS-PG-008: CHILLED WATER SYSTEM SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56708	0256-OCWP-CHWS-TT-001: CHILLED WATER SYSTEM RETURN TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

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56709	0256-OCWP-CHWS-TT-002: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56710	0256-OCWP-CHWS-TT-003: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56711	0256-OCWP-CHWS-TT-004: CHILLED WATER SYSTEM SUPPLY TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56712	0256-OCWP-CHWS-CHLR-001: CHILLED WATER SYSTEM CHILLER #1	SERIALIZED	CHILLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56713	0256-OCWP-CHWS-FDR-001: CHILLED WATER SYSTEM BYPASS FEEDER	SERIALIZED	FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56714	0256-OCWP-CHWS-HX-001: CHILLED WATER SYSTEM HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56715	0256-OCWP-CHWS-FIL-002: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56716	0256-OCWP-CHWS-FIL-003: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56717	0256-OCWP-CHWS-CV-001: CHILLED WATER SYSTEM RETURN OUTLET FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56718	0256-OCWP-CHWS-CV-002: CHILLED WATER SYSTEM RETURN BACKWASH FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56719	0256-OCWP-CHWS-CV-003: CHILLED WATER SYSTEM RETURN DRAIN FLOW	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56720	0256-OCWP-CHWS-CV-004: CHILLED WATER SYSTEM RETURN INLET FLOW	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56721	0256-OCWP-CHWS-AOV-001: CHILLED WATER SYSTEM SUPPLY AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56722	0256-OCWP-CHWS-AOV-002: CHILLED WATER SYSTEM SUPPLY AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56723	0256-OCWP-CHWS-P-CNT-001: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56724	0256-OCWP-CHWS-P-CNT-002: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56725	0256-OCWP-CHWS-P-CNT-003: CHILLED WATER SYSTEM CENTRIFUGAL PUMP #3	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56726	0256-OCWP-CHWS-FIL-001: CHILLED WATER SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56727	0256-OCWP-CHWS-YS-001: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56728	0256-OCWP-CHWS-YS-002: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56729	0256-OCWP-CHWS-YS-003: CHILLED WATER SYSTEM RETURN WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56730	0256-OCWP-CHWS-FM-001: CHILLED WATER SYSTEM RETURN FLOW METER ISOLATION VALVE	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56731	0256-OCWP-CHWS-FM-002: CHILLED WATER SYSTEM SUPPLY FLOW METER ISOLATION VALVE	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56732	0256-OCWP-CHWS-RV-001: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #1	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56733	0256-OCWP-CHWS-RV-002: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #2	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56734	0256-OCWP-CHWS-RV-003: CHILLED WATER SYSTEM SUPPLY PRESSURE RELIEF DRAIN VALVE FROM PUMP #3	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56735	0256-OCWP-CHWS-FO-001: CHILLED WATER SYSTEM RETURN FROM FIL 1	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56736	0256-OCWP-CHWS-SG-001: CHILLED WATER SYSTEM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56737	0256-OCWP-CON-V-001: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56738	0256-OCWP-CON-V-002: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56739	0256-OCWP-CON-V-003: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56740	0256-OCWP-CON-V-004: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56741	0256-OCWP-CON-V-005: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56742	0256-OCWP-CON-V-006: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56743	0256-OCWP-CON-V-007: CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56744	0256-OCWP-CON-V-008: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56745	0256-OCWP-CON-V-009: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56746	0256-OCWP-CON-V-010: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56747	0256-OCWP-CON-V-011: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56748	0256-OCWP-CON-V-012: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56749	0256-OCWP-CON-V-013: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56750	0256-OCWP-CON-V-014: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56751	0256-OCWP-CON-V-015: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56752	0256-OCWP-CON-V-016: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56753	0256-OCWP-CON-V-017: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56754	0256-OCWP-CON-V-018: CONDENSATE SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56755	0256-OCWP-CON-V-019: CONDENSATE SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56756	0256-OCWP-CON-V-020: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56757	0256-OCWP-CON-V-021: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56758	0256-OCWP-CON-V-022: CONDENSATE SYSTEM WATER COLUMN ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56759	0256-OCWP-CON-V-023: CONDENSATE SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56760	0256-OCWP-CON-V-024: CONDENSATE SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56761	0256-OCWP-CON-V-025: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56762	0256-OCWP-CON-V-026: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56763	0256-OCWP-CON-V-027: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56764	0256-OCWP-CON-V-028: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56765	0256-OCWP-CON-V-029: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56766	0256-OCWP-CON-V-030: CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56767	0256-OCWP-CON-V-031: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56768	0256-OCWP-CON-V-032: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56769	0256-OCWP-CON-V-033: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56770	0256-OCWP-CON-V-034: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56771	0256-OCWP-CON-V-035: CONDENSATE SYSTEM TRAP OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56772	0256-OCWP-CON-V-036: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56773	0256-OCWP-CON-V-037: CONDENSATE SYSTEM INLET VALVE FROM MPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56774	0256-OCWP-CON-V-038: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56775	0256-OCWP-CON-V-039: CONDENSATE SYSTEM INLET VALVE FROM MPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56776	0256-OCWP-CON-V-040: CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56777	0256-OCWP-CON-P-CNT-001: CONDENSATE SYSTEM DRISTRIBUTION	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56778	0256-OCWP-CON-P-CNT-002: CONDENSATE SYSTEM DRISTRIBUTION	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56779	0256-OCWP-CON-WC-001: CONDENSATE SYSTEM TNK #1 WATER	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56780	0256-OCWP-CON-TRAP-001: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56781	0256-OCWP-CON-TRAP-002: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56782	0256-OCWP-CON-TRAP-003: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56783	0256-OCWP-CON-TRAP-004: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56784	0256-OCWP-CON-TRAP-005: CONDENSATE SYSTEM TRAP FROM PWS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56785	0256-OCWP-CON-TRAP-006: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56786	0256-OCWP-CON-TRAP-007: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56787	0256-OCWP-CON-TRAP-008: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56788	0256-OCWP-CON-TRAP-009: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56789	0256-OCWP-CON-TRAP-010: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56790	0256-OCWP-CON-TRAP-011: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56791	0256-OCWP-CON-TRAP-012: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56792	0256-OCWP-CON-TRAP-013: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56793	0256-OCWP-CON-TRAP-014: CONDENSATE SYSTEM TRAP FROM MPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56794	0256-OCWP-CON-TRAP-015: CONDENSATE SYSTEM TRAP FROM LPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56795	0256-OCWP-CON-TRAP-016: CONDENSATE SYSTEM TRAP FROM LPS	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56796	0256-OCWP-CON-CHK-001: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56797	0256-OCWP-CON-CHK-002: CONDENSATE SYSTEM FROM MPS ACD	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56798	0256-OCWP-CON-CHK-003: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56799	0256-OCWP-CON-CHK-004: CONDENSATE SYSTEM FROM PWS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56800	0256-OCWP-CON-CHK-005: CONDENSATE SYSTEM FROM PWS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56801	0256-OCWP-CON-CHK-006: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56802	0256-OCWP-CON-CHK-007: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56803	0256-OCWP-CON-CHK-008: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56804	0256-OCWP-CON-CHK-009: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56805	0256-OCWP-CON-CHK-010: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56806	0256-OCWP-CON-CHK-011: CONDENSATE SYSTEM FROM MPS ACD	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56807	0256-OCWP-CON-CHK-012: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56808	0256-OCWP-CON-CHK-013: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56809	0256-OCWP-CON-CHK-014: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56810	0256-OCWP-CON-CHK-015: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56811	0256-OCWP-CON-CHK-016: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56812	0256-OCWP-CON-CHK-017: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56813	0256-OCWP-CON-CHK-018: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56814	0256-OCWP-CON-CHK-019: CONDENSATE SYSTEM FROM MPS	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56815	0256-OCWP-CON-TNK-001: CONDENSATE SYSTEM STORAGE TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56816	0256-OCWP-CON-HTR-001: CONDENSATE SYSTEM OUTLET TO MAIN PLANT INSULATION HEATER	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56817	0256-OCWP-CFS-V-001: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56818	0256-OCWP-CFS-V-002: CHEMICAL FEED SYSTEM OUTLET FROM TNK 1	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56819	0256-OCWP-CFS-V-003: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56820	0256-OCWP-CFS-V-004: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56821	0256-OCWP-CFS-V-005: CHEMICAL FEED SYSTEM TNK #1 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56822	0256-OCWP-CFS-V-006: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56823	0256-OCWP-CFS-V-007: CHEMICAL FEED SYSTEM OUTLET FROM TNK 2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56824	0256-OCWP-CFS-V-008: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56825	0256-OCWP-CFS-V-009: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56826	0256-OCWP-CFS-V-010: CHEMICAL FEED SYSTEM TNK #2 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56827	0256-OCWP-CFS-V-011: CHEMICAL FEED SYSTEM INLET VALVE FROM CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56828	0256-OCWP-CFS-V-012: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56829	0256-OCWP-CFS-V-013: CHEMICAL FEED SYSTEM TNK #3 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56830	0256-OCWP-CFS-V-014: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56831	0256-OCWP-CFS-V-015: CHEMICAL FEED SYSTEM 3-WAY BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56832	0256-OCWP-CFS-V-016: CHEMICAL FEED SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56833	0256-OCWP-CFS-V-017: CHEMICAL FEED SYSTEM WATER COLUMN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56834	0256-OCWP-CFS-V-018: CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56835	0256-OCWP-CFS-V-019: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56836	0256-OCWP-CFS-V-020: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56837	0256-OCWP-CFS-V-021: CHEMICAL FEED SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56838	0256-OCWP-CFS-V-022: CHEMICAL FEED SYSTEM OUTLET VALVE TO CON	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56839	0256-OCWP-CFS-V-023: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56840	0256-OCWP-CFS-V-024: CHEMICAL FEED SYSTEM OUTLET FROM TNK 4	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56841	0256-OCWP-CFS-V-025: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56842	0256-OCWP-CFS-V-026: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56843	0256-OCWP-CFS-V-027: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56844	0256-OCWP-CFS-V-028: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56845	0256-OCWP-CFS-V-029: CHEMICAL FEED SYSTEM OUTLET FROM TNK 5	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56846	0256-OCWP-CFS-V-030: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56847	0256-OCWP-CFS-V-031: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56848	0256-OCWP-CFS-V-032: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56849	0256-OCWP-CFS-V-033: CHEMICAL FEED SYSTEM LOADING DOCK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56850	0256-OCWP-CFS-V-034: CHEMICAL FEED SYSTEM OUTLET FROM TNK 6	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56851	0256-OCWP-CFS-V-035: CHEMICAL FEED SYSTEM INLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56852	0256-OCWP-CFS-V-036: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56853	0256-OCWP-CFS-V-037: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56854	0256-OCWP-CFS-V-038: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56855	0256-OCWP-CFS-V-039: CHEMICAL FEED SYSTEM 3-WAY OUTLET VALVE FROM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56856	0256-OCWP-CFS-V-040: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56857	0256-OCWP-CFS-V-041: CHEMICAL FEED SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56858	0256-OCWP-CFS-V-042: CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56859	0256-OCWP-CFS-P-001: CHEMICAL FEED SYSTEM TNK #1 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56860	0256-OCWP-CFS-P-002: CHEMICAL FEED SYSTEM TNK #2 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56861	0256-OCWP-CFS-P-003: CHEMICAL FEED SYSTEM TNK #3 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56862	0256-OCWP-CFS-P-004: CHEMICAL FEED SYSTEM TNK #4 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56863	0256-OCWP-CFS-P-005: CHEMICAL FEED SYSTEM TNK #5 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56864	0256-OCWP-CFS-P-006: CHEMICAL FEED SYSTEM TNK #6 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56865	0256-OCWP-CFS-P-007: CHEMICAL FEED SYSTEM TNK #7 OUTLET PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56866	0256-OCWP-CFS-WC-001: CHEMICAL FEED SYSTEM TNK #1 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56867	0256-OCWP-CFS-WC-002: CHEMICAL FEED SYSTEM TNK #2 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56868	0256-OCWP-CFS-WC-003: CHEMICAL FEED SYSTEM WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56870	0256-OCWP-CFS-WC-004: CHEMICAL FEED SYSTEM TNK #4 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56871	0256-OCWP-CFS-WC-005: CHEMICAL FEED SYSTEM TNK #5 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56872	0256-OCWP-CFS-WC-006: CHEMICAL FEED SYSTEM TNK #6 WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56873	0256-OCWP-CFS-FIL-001: CHEMICAL FEED SYSTEM OUTLET FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
56874	0256-OCWP-CFS-FIL-002: CHEMICAL FEED SYSTEM TNK #7 & 8 OUTLET	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56875	0256-OCWP-CFS-FIL-003: CHEMICAL FEED SYSTEM TNK #7 & 8 OUTLET	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56876	0256-OCWP-CFS-PG-001: CHEMICAL FEED SYSTEM OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56877	0256-OCWP-CFS-PG-002: CHEMICAL FEED SYSTEM TNK #7 OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56883	0256-OCWP-CFS-TRAP-001: CHEMICAL FEED SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56884	0256-OCWP-CFS-FO-001: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56885	0256-OCWP-CFS-FO-002: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56886	0256-OCWP-CFS-FO-003: CHEMICAL FEED SYSTEM FLOW ORFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56887	0256-OCWP-CFS-CU-001: CHEMICAL FEED SYSTEM PH SENSOR CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56888	0256-OCWP-CFS-PH-001: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56889	0256-OCWP-CFS-PH-002: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56890	0256-OCWP-CFS-PH-003: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56891	0256-OCWP-CFS-PH-004: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
56892	0256-OCWP-CFS-PH-005: CHEMICAL FEED SYSTEM PH SENSOR PROBE	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
64979	AUTOMATIC EXTERNAL DEFIBRILLATOR (AED), 0256 CWPO	SERIALIZED	SAFETY DEVICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
65353	EMERGENCY LIGHTS, SYSTEM, 0256 BUILDING WIDE EMERGENCY AND EXIT LIGHTING SEE RELATED DOCUMENTS FOR FLOOR	SYSTEM	EMERGENCY LIGHTING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Chiller Plant
BRSF SUBSTATION	Biomedical Research Support Facility Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
GENERATOR 1 CIRCUIT	Oakdale Power Plant Substation Gen 1 Ckt	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
GENERATOR 2 CIRCUIT	Oakdale Power Plant Substation Gen 2 Ckt	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
HLI SUBSTATION	State Hygienic Laboratory Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
HLMA SUBSTATION	Wave Basin Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
ITF-NORTH SUBSTATION	Information Technology Facility-North Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
ITF-SOUTH SUBSTATION	Information Technology Facility-South Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE LOOP A	Oakdale Power Plant Substation Loop A	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE OVERHEAD	Oakdale Overhead Power System	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE TRANSFORMERS	Transformers Oakdale Campus	ED-SYSTEM	TRANSFORMERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
321	OAKDALE POWER PLANT SUBSTATION	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
51001	0321-OAKDALE-CABLE VAULT : ELECTRICAL DISTRIBUTION OAKDALE	SERIALIZED	CABLE VAULT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
60444	FIRE EXTINGUISHERS, 0321 OAKDALE POWER PLANT SUBSTATION (7)	SYSTEM	FIRE EXTINGUISHERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
BRSF SUBSTATION	Biomedical Research Support Facility Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
GENERATOR 1 CIRCUIT	Oakdale Power Plant Substation Gen 1 Ckt	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
GENERATOR 2 CIRCUIT	Oakdale Power Plant Substation Gen 2 Ckt	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
HLI SUBSTATION	State Hygienic Laboratory Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
HLMA SUBSTATION	Wave Basin Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
ITF-NORTH SUBSTATION	Information Technology Facility-North Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
ITF-SOUTH SUBSTATION	Information Technology Facility-South Substation	ED-SYSTEM	BUILDING SUBSTATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE LOOP A	Oakdale Power Plant Substation Loop A	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE OVERHEAD	Oakdale Overhead Power System	ED-SYSTEM	ELECTRIC LOOP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
OAKDALE TRANSFORMERS	Transformers Oakdale Campus	ED-SYSTEM	TRANSFORMERS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Power Plant Substation
0026-HLI-CT-001	0026-HLI-CT-001:Ã HLI Cooling Tower 1Ã Ã Ã Ã Ã Ã Ã HLI Title V EP-026-2	SERIALIZED	SYSTEM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
0026-HLI-CT-002	0026-HLI-CT-002:Ã HLI Cooling Tower 2Ã Ã Ã Ã Ã Ã Ã HLI Title V EP-026-3	SERIALIZED	SYSTEM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
239	OAKDALE UTILITY POWER PLANT	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
0239-OREP-CT-001	0239-OREP-CT-001: OREP Cooling Tower 1 OREP Title V EP-240-2	SERIALIZED	SYSTEM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
0239-OREP-CT-002	0239-OREP-CT-002:Â OREP Cooling Tower 2 Â Â Â Â Â Â Â Â OREP Title V	SERIALIZED	SYSTEM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
0239-OREP-TITLEV-001	0239-OREP-TITLEV-001: OREP Title V	SERIALIZED	TITLE V	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18729	239-B01-CPW-BFP-1 : BFP - BASEMENT, NORTH WALL, EAST END - UPPER ONE	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18730	239-B01-CPW-BFP-2 : BFP - BASEMENT NORTH, EAST END, LOWER ONE OF TWO	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18731	239-B01-CPW-BFP-3 : BFP - NORTH WALL, WEST END	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18732	239-B01-CPW-BFP-4 : BFP - NORTH WALL, WEST END	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18733	239-B02-CPW-BFP-1 : BACKFLOW PREVENTER - BASEMENT, NW CORNER,	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18734	239-B02-CPW-BFP-2 : BACKFLOW PREVENTER - BASEMENT, WEST SIDE,	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
18735	239-B03-FW-BFP-1 : BFP - BASEMENT, EAST SIDE, NEW ADDITION, FIRE	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52283	OAKDALE - DA TANK	SERIALIZED	DEAERATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52334	OREP ENGINE 1 STACK EP 240-1	SERIALIZED	STACK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52335	OREP ENGINE 2 STACK EP 240-1	SERIALIZED	STACK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52336	OREP BAGHOUSE, TRI-MER FILTERS AND LEAK DETECTION SYSTEM	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52337	HURST FUEL HANDLING SYSTEM DUST COLLECTOR (KICE DUST COLLECTOR) OREP TITLE V EP-239-4	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52338	AG FUEL STORAGE BIN DUST COLLECTOR (COE RYVAC DUST COLLECTOR) OREP TITLE V EP-239-5	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52577	0239-OAK-GFS-FM-001 : OAKDALE POWER PLANT GAS FUEL SUPPLY FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52578	0239-OAK-GFS-FM-002 : OAKDALE POWER PLANT GAS SUPPLY TO ENGINE ROOM FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52579	0239-OAK-GFS-FO-001 : OAKDALE POWER PLANT GAS SUPPLY TO ENGINE ROOM FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52580	0239-OAK-GFS-PG-001 : OAKDALE POWER PLANT GAS SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52581	0239-OAK-GFS-PG-002 : OAKDALE POWER PLANT GAS ENGINE SUPPLY	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52582	0239-OAK-GFS-PG-003 : OAKDALE POWER PLANT GAS FUEL PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52583	0239-OAK-GFS-REG-001 : OAKDALE POWER PLANT GAS FUEL SUPPLY MAIN HEADER REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52584	0239-OAK-GFS-RV-001 : OAKDALE POWER PLANT GAS FUEL MAIN HEADER	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52585	0239-OAK-GFS-V-001 : OAKDALE POWER PLANT GAS FUEL MAIN HEADER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52586	0239-OAK-GFS-V-002 : OAKDALE POWER PLANT GAS FUEL REGULATOR INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52587	0239-OAK-GFS-V-003 : OAKDALE POWER PLANT GAS FUEL REGULATOR BYPASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52588	0239-OAK-GFS-V-004 : OAKDALE POWER PLANT GAS FUEL REGULATOR BYPASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52589	0239-OAK-GFS-V-005 : OAKDALE POWER PLANT GAS FUEL REGULATOR BYPASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52590	0239-OAK-GFS-V-006 : OAKDALE POWER PLANT GAS FUEL REGULATOR BYPASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52591	0239-OAK-GFS-V-007 : OAKDALE POWER PLANT GAS FUEL REGULATOR OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52592	0239-OAK-GFS-V-008 : OAKDALE POWER PLANT GAS FUEL SUPPLY VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52593	0239-OAK-GFS-V-009 : OAKDALE POWER PLANT GAS FUEL SUPPLY VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52594	0239-OAK-GFS-V-010 : OAKDALE POWER PLANT GAS FUEL SUPPLY VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52595	0239-OAK-GFS-V-011 : OAKDALE POWER PLANT GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52596	0239-OAK-GFS-V-012 : OAKDALE POWER PLANT GAS SUPPLY HEADER BYPASS ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52597	0239-OAK-GFS-V-013 : OAKDALE POWER PLANT GAS SUPPLY INSTRUMENT TAP ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52598	0239-OAK-GFS-V-014 : OAKDALE POWER PLANT GAS SUPPLY HEADER BYPASS ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52599	0239-OAK-GFS-V-015 : OAKDALE POWER PLANT GAS FUEL VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52600	0239-OAK-GFS-V-016 : OAKDALE POWER PLANT GAS FUEL PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52601	0239-OAK-GFS-V-017 : OAKDALE POWER PLANT GAS SUPPLY HEADER VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52602	0239-OAK-GFS-V-018 : OAKDALE POWER PLANT BOILER #4 GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52603	0239-OAK-GFS-V-019 : OAKDALE POWER PLANT BOILER #3 GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52604	0239-OAK-GFS-V-020 : OAKDALE POWER PLANT MAIN GAS HEADER ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52605	0239-OAK-GFS-V-021 : OAKDALE POWER PLANT BOILER #2 GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52606	0239-OAK-GFS-V-022 : OAKDALE POWER PLANT BOILER #1 GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52607	0239-OAK-GFS-V-023 : OAKDALE POWER PLANT GAS ENGINE ROOM GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52608	0239-OAK-GFS-V-024 : OAKDALE POWER PLANT GAS FUEL FLOW METER INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52609	0239-OAK-GFS-V-025 : OAKDALE POWER PLANT GAS FUEL FLOW METER OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52610	0239-OAK-GFS-V-026 : OAKDALE POWER PLANT GAS ENGINE ROOM GAS SUPPLY CONNECTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52611	0239-OAK-GFS-V-027 : OAKDALE POWER PLANT GAS ENGINE ROOM GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52612	0239-OAK-GFS-YS-001 : OAKDALE POWER PLANT GAS FUEL SUPPLY WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52613	0239-OAK-BDS-CND-001: OAKDALE POWER PLANT BOILER #1 CONTINUOUS BLOWDOWN CONDUCTIVITY ELEMENT	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52614	0239-OAK-BDS-CND-002: OAKDALE POWER PLANT BOILER #2 CONTINUOUS BLOWDOWN CONDUCTIVITY ELEMENT	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52615	0239-OAK-BDS-CND-003: OAKDALE POWER PLANT BOILER #3 CONTINUOUS BLOWDOWN CONDUCTIVITY ELEMENT	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52616	0239-OAK-BDS-CND-004: OAKDALE POWER PLANT BOILER #4 CONTINUOUS BLOWDOWN CONDUCTIVITY ELEMENT	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52617	0239-OAK-BDS-CV-001: OAKDALE POWER PLANT BOILER #1 BLOWDOWN MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52618	0239-OAK-BDS-CV-002: OAKDALE POWER PLANT BOILER #2 BLOWDOWN MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52619	0239-OAK-BDS-CV-003: OAKDALE POWER PLANT BOILER #3 BLOWDOWN MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52620	0239-OAK-BDS-CV-004: OAKDALE POWER PLANT BOILER #4 BLOWDOWN MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52621	0239-OAK-BDS-CV-005: OAKDALE POWER PLANT BLOWDOWN SEPARATOR OUTLET TEMPERING COOLING WATER	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52622	0239-OAK-BDS-CV-006: OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT EXCHANGER OUTLET TEMPERING COOLING WATER	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52623	0239-OAK-BDS-FT-001: OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM FLASH	SERIALIZED	TANK FLASH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52624	0239-OAK-BDS-HX-001: OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52625	0239-OAK-BDS-LV-001: OAKDALE POWER PLANT BLOWDOWN FLASH TANK LEVEL CONTROL VALVE	SERIALIZED	VALVE LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52626	0239-OAK-BDS-RV-001 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN FLASH SEPERATOR VENT	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52627	0239-OAK-BDS-SC-001 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52628	0239-OAK-BDS-SEP-001 : OAKDALE POWER PLANT BOILER BLOWDOWN	SERIALIZED	SEPARATORS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52629	0239-OAK-BDS-SG-001 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY FLASH	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52630	0239-OAK-BDS-TG-001 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT EXCHANGER MAKE-UP WATER OUTLET	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52631	0239-OAK-BDS-TG-002 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT EXCHANGER BLOWDOWN WATER OUTLET	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52632	0239-OAK-BDS-TG-003 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT EXCHANGER MAKE-UP WATER INLET TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52633	0239-OAK-BDS-TG-004 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM OUTLET WATER	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52634	0239-OAK-BDS-TG-005 : OAKDALE POWER PLANT BOILER BLOWDOWN SYSTEM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52637	0239-OAK-BDS-TT-002 : OAKDALE POWER PLANT BLOWDOWN SYSTEM DRAIN TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52638	0239-OAK-BDS-V-001 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM INLET STRAINER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52639	0239-OAK-BDS-V-002 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52640	0239-OAK-BDS-V-003 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM STRAINER OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52641	0239-OAK-BDS-V-004 : OAKDALE POWER PLANT BLR#2 CONTINUOUS BLOWDOWN SYSTEM INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52642	0239-OAK-BDS-V-005 : OAKDALE POWER PLANT BLR#2 CONTINUOUS BLOWDOWN SYSTEM STRAINER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52643	0239-OAK-BDS-V-006 : OAKDALE POWER PLANT BLR#2 CONTINUOUS BLOWDOWN SYSTEM STRAINER	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52644	0239-OAK-BDS-V-007 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM SAMPLE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52645	0239-OAK-BDS-V-008 : OAKDALE POWER PLANT BLR#2 CONTINUOUS BLOWDOWN SYSTEM SAMPLE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52646	0239-OAK-BDS-V-009 : OAKDALE POWER PLANT CHEMICAL FEED TANK FILL ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52647	0239-OAK-BDS-V-010 : OAKDALE POWER PLANT CHEMICAL FEED TANK INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52648	0239-OAK-BDS-V-011 : OAKDALE POWER PLANT CHEMICAL FEED TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52649	0239-OAK-BDS-V-012 : OAKDALE POWER PLANT CHEMICAL FEED TANK OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52650	0239-OAK-BDS-V-013 : OAKDALE POWER PLANT CHEMICAL FEED TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52651	0239-OAK-BDS-V-014 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52652	0239-OAK-BDS-V-015 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52653	0239-OAK-BDS-V-016 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM SAMPLE COOLER OUTLET TO DRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52654	0239-OAK-BDS-V-017 : OAKDALE POWER PLANT BLR#3 CONTINUOUS BLOWDOWN SYSTEM STRAINER INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52655	0239-OAK-BDS-V-018 : OAKDALE POWER PLANT BLR#3 CONTINUOUS BLOWDOWN SYSTEM STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52656	0239-OAK-BDS-V-019 : OAKDALE POWER PLANT BLR#3 CONTINUOUS BLOWDOWN SYSTEM STRAINER OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52657	0239-OAK-BDS-V-020 : OAKDALE POWER PLANT BLR#3 CONTINUOUS BLOWDOWN SYSTEM SAMPLE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52658	0239-OAK-BDS-V-021 : OAKDALE POWER PLANT BLR#4 CONTINUOUS BLOWDOWN SYSTEM SAMPLE VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52659	0239-OAK-BDS-V-022 : OAKDALE POWER PLANT BLR#4 CONTINUOUS BLOWDOWN SYSTEM STRAINER INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52660	0239-OAK-BDS-V-023 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52661	0239-OAK-BDS-V-024 : OAKDALE POWER PLANT BLR#4 CONTINUOUS BLOWDOWN SYSTEM STRAINER OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52662	0239-OAK-BDS-V-025 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN DRAIN ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52663	0239-OAK-BDS-V-026 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM DRAIN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52664	0239-OAK-BDS-V-027 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52665	0239-OAK-BDS-V-028 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM FLASH SEPERATOR STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52666	0239-OAK-BDS-V-029 : OAKDALE POWER PLANT BOILER #1 BLOWDOWN DRAIN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52667	0239-OAK-BDS-V-030 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM FLASH SEPERATOR INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52668	0239-OAK-BDS-V-031 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52669	0239-OAK-BDS-V-032 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY HEAT EXCHANGER MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52670	0239-OAK-BDS-V-033 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY HEAT EXCHANGER MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52671	0239-OAK-BDS-V-034 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY HEAT EXCHANGER MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52672	0239-OAK-BDS-V-035 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY HEAT EXCHANGER MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52673	0239-OAK-BDS-V-036 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY NON POTABLE TEMPERING WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52674	0239-OAK-BDS-V-037 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM HEAT RECOVERY NON POTABLE WATER TEMPERING WATER WYE STRAINER BLOWDOWN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52675	0239-OAK-BDS-V-038 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT EXCHANGER OUTLET	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52676	0239-OAK-BDS-V-039 : OAKDALE POWER PLANT BLOWDOWN SYSTEM MAIN HEADER PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52677	0239-OAK-BDS-V-040 : OAKDALE POWER PLANT BLOWDOWN MAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52678	0239-OAK-BDS-V-041 : OAKDALE POWER PLANT BLOWDOWN SYSTEM SEPERATOR NON POTABLE WATER STRAINER BLOWDOWN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52679	0239-OAK-BDS-V-042 : OAKDALE POWER PLANT BLOWDOWN SYSTEM SEPERATOR NON POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52680	0239-OAK-BDS-V-043 : OAKDALE POWER PLANT BOILER #2 BLOWDOWN DRAIN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52681	0239-OAK-BDS-V-044 : OAKDALE POWER PLANT BOILER #2 BLOWDOWN MOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52682	0239-OAK-BDS-V-045 : OAKDALE POWER PLANT BOILER #2 BLOWDOWN MOV INTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52683	0239-OAK-BDS-V-046 : OAKDALE POWER PLANT BOILER #2 BLOWDOWN MOV OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52684	0239-OAK-BDS-V-047 : OAKDALE POWER PLANT BOILER #1 BLOWDOWN MOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52685	0239-OAK-BDS-V-048 : OAKDALE POWER PLANT BOILER #1 BLOWDOWN MOV INTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52686	0239-OAK-BDS-V-049 : OAKDALE POWER PLANT BOILER #1 BLOWDOWN MOV OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52687	0239-OAK-BDS-V-050 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52688	0239-OAK-BDS-V-051 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN MOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52689	0239-OAK-BDS-V-052 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN MOV INTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52690	0239-OAK-BDS-V-053 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN MOV OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52691	0239-OAK-BDS-V-054 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52692	0239-OAK-BDS-V-055 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN MOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52693	0239-OAK-BDS-V-056 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN MOV INTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52694	0239-OAK-BDS-V-057 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN MOV OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52695	0239-OAK-BDS-V-058 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN FLASH TANK DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52696	0239-OAK-BDS-YS-001 : OAKDALE POWER PLANT BLR#1 CONTINUOUS BLOWDOWN SYSTEM SAMPLE INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52697	0239-OAK-BDS-YS-002 : OAKDALE POWER PLANT BLR#2 CONTINUOUS BLOWDOWN SYSTEM SAMPLE INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52698	0239-OAK-BDS-YS-003 : OAKDALE POWER PLANT BLR#3 CONTINUOUS BLOWDOWN SYSTEM SAMPLE INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52699	0239-OAK-BDS-YS-004 : OAKDALE POWER PLANT BLR#4 CONTINUOUS BLOWDOWN SYSTEM SAMPLE INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52700	0239-OAK-BDS-YS-005 : OAKDALE POWER PLANT BLOWDOWN SYSTEM SEPERATOR NON-POTABLE WATER TEMPERING WATER SUPPLY WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52701	0239-OAK-BDS-YS-006 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN HEAT RECOVERY HEAT EXCHANGER OUTLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52702	0239-OAK-BDS-YS-007 : OAKDALE POWER PLANT NON POTABLE WATER TEMPERING WATER SUPPLY WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52703	0239-OAK-FPS-BFP-001: OAKDALE POWER PLANT FIRE PROTECTION BACKFLOW PREVENTER #1	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52704	0239-OAK-FPS-BFP-002: OAKDALE POWER PLANT FIRE PROTECTION BACKFLOW PREVENTOR #2	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52705	0239-OAK-FPS-BFP-003: OAKDALE POWER PLANT DOES NOT ALLOW DRAINAGE TO COME BACK INTO	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52706	0239-OAK-FPS-CHK-001: OAKDALE POWER PLANT BIOMASS STORAGE SPRINKLER SUPPLY CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52707	0239-OAK-FPS-CHK-002: OAKDALE POWER PLANT FIRE DEPARTMENT CONNECTION CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52708	0239-OAK-FPS-CHK-003: OAKDALE POWER PLANT CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52709	0239-OAK-FPS-CMP-A-001: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52710	0239-OAK-FPS-LVS-001: OAKDALE POWER PLANT LEVEL SWITCH OFF OAK-	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52711	0239-OAK-FPS-LVS-002: OAKDALE POWER PLANT LEVEL SWITCH OFF OAK-	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52712	0239-OAK-FPS-LVS-003: OAKDALE POWER PLANT LEVEL SWITCH OFF OAK-	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52713	0239-OAK-FPS-LVS-004: OAKDALE POWER PLANT LEVEL SWITCH OFF OAK-	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52714	0239-OAK-FPS-PG-001: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION WATER SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52715	0239-OAK-FPS-PG-002: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION WATER SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52716	0239-OAK-FPS-PG-003: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION REGUALTED AIR SUPPLY	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52717	0239-OAK-FPS-PG-004: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION AIR COMPRESSOR TANK	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52718	0239-OAK-FPS-PG-005: OAKDALE POWER PLANT MAIN FIRE HEADER SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52719	0239-OAK-FPS-PS-001: OAKDALE POWER PLANT BIOMASS WATER PRESSURE ALARM SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52720	0239-OAK-FPS-PS-002: OAKDALE POWER PLANT BIOMASS WATER PRESSURE ALARM SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52721	0239-OAK-FPS-REG-001: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52722	0239-OAK-FPS-SPK-001: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52723	0239-OAK-FPS-SPK-002: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52724	0239-OAK-FPS-SPK-003: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52725	0239-OAK-FPS-SPK-004: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52726	0239-OAK-FPS-SPK-005: OAKDALE POWER PLANT SPRINKLER HEAD ABOVE/BETWEEN OF GE#1 & GE#2	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52727	0239-OAK-FPS-SPK-006: OAKDALE POWER PLANT SPRINKLER HEAD ABOVE/BETWEEN OF GE#1 & GE#2	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52728	0239-OAK-FPS-SPK-007: OAKDALE POWER PLANT SPRINKLER HEAD ABOVE/BETWEEN OF GE#1 & GE#2	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52729	0239-OAK-FPS-SPK-008: OAKDALE POWER PLANT SPRINKLER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52730	0239-OAK-FPS-SPK-009: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52731	0239-OAK-FPS-SPK-010: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52732	0239-OAK-FPS-SPK-011: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52733	0239-OAK-FPS-SPK-012: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52734	0239-OAK-FPS-SPK-013: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52735	0239-OAK-FPS-SPK-014: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52736	0239-OAK-FPS-SPK-015: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52737	0239-OAK-FPS-SPK-016: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52738	0239-OAK-FPS-SPK-017: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52739	0239-OAK-FPS-SPK-018: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM NORTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52740	0239-OAK-FPS-SPK-019: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52741	0239-OAK-FPS-SPK-020: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52742	0239-OAK-FPS-SPK-021: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52743	0239-OAK-FPS-SPK-022: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52744	0239-OAK-FPS-SPK-023: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52745	0239-OAK-FPS-SPK-024: OAKDALE POWER PLANT SPRINKLER HEAD HOT WATER PUMP ROOM SOUTH LEG	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52746	0239-OAK-FPS-SPK-025: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52747	0239-OAK-FPS-SPK-026: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52748	0239-OAK-FPS-SPK-027: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52749	0239-OAK-FPS-SPK-028: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52750	0239-OAK-FPS-SPK-029: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52751	0239-OAK-FPS-SPK-030: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52752	0239-OAK-FPS-SPK-031: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52753	0239-OAK-FPS-SPK-032: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52754	0239-OAK-FPS-SPK-033: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52755	0239-OAK-FPS-SPK-034: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52756	0239-OAK-FPS-SPK-035: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52757	0239-OAK-FPS-SPK-036: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52758	0239-OAK-FPS-SPK-037: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52759	0239-OAK-FPS-SPK-038: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52760	0239-OAK-FPS-SPK-039: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52761	0239-OAK-FPS-SPK-040: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM MIDDLE SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52762	0239-OAK-FPS-SPK-041: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52763	0239-OAK-FPS-SPK-042: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52764	0239-OAK-FPS-SPK-043: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52765	0239-OAK-FPS-SPK-044: OAKDALE POWER PLANT SPRINKLER HEAD GAS ENGINE ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52766	0239-OAK-FPS-SPK-045: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52767	0239-OAK-FPS-SPK-046: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52768	0239-OAK-FPS-SPK-047: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52769	0239-OAK-FPS-SPK-048: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52770	0239-OAK-FPS-SPK-049: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52771	0239-OAK-FPS-SPK-050: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52772	0239-OAK-FPS-SPK-051: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM NORTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52773	0239-OAK-FPS-SPK-052: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52774	0239-OAK-FPS-SPK-053: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52775	0239-OAK-FPS-SPK-054: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52776	0239-OAK-FPS-SPK-055: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52777	0239-OAK-FPS-SPK-056: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52778	0239-OAK-FPS-SPK-057: OAKDALE POWER PLANT SPRINKLER HEAD ELECTRICAL ROOM SOUTH UPPER	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52779	0239-OAK-FPS-SPK-060: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52780	0239-OAK-FPS-SPK-061: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52781	0239-OAK-FPS-SPK-062: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52782	0239-OAK-FPS-SPK-063: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52783	0239-OAK-FPS-SPK-064: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52784	0239-OAK-FPS-SPK-065: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52785	0239-OAK-FPS-SPK-066: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52786	0239-OAK-FPS-SPK-067: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52787	0239-OAK-FPS-SPK-068: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52788	0239-OAK-FPS-SPK-069: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52789	0239-OAK-FPS-SPK-070: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52790	0239-OAK-FPS-SPK-071: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52791	0239-OAK-FPS-SPK-072: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER EAST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52792	0239-OAK-FPS-SPK-073: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52793	0239-OAK-FPS-SPK-074: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52794	0239-OAK-FPS-SPK-075: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52795	0239-OAK-FPS-SPK-076: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52796	0239-OAK-FPS-SPK-077: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52797	0239-OAK-FPS-SPK-078: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52798	0239-OAK-FPS-SPK-079: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52799	0239-OAK-FPS-SPK-080: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52800	0239-OAK-FPS-SPK-081: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52801	0239-OAK-FPS-SPK-082: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52802	0239-OAK-FPS-SPK-083: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52803	0239-OAK-FPS-SPK-084: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52804	0239-OAK-FPS-SPK-085: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WEST SIDE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52805	0239-OAK-FPS-SPK-086: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52806	0239-OAK-FPS-SPK-087: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52807	0239-OAK-FPS-SPK-088: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52808	0239-OAK-FPS-SPK-089: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52809	0239-OAK-FPS-SPK-090: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52810	0239-OAK-FPS-SPK-091: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52811	0239-OAK-FPS-SPK-092: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52812	0239-OAK-FPS-SPK-093: OAKDALE POWER PLANT SPRINKLER HEAD STORAGE BUNKER WALK AISLE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52813	0239-OAK-FPS-SPK-094: OAKDALE POWER PLANT SPRINKLER HEAD BUCKET ELEVATOR BASE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52814	0239-OAK-FPS-SPK-095: OAKDALE POWER PLANT SPRINKLER HEAD BUCKET ELEVATOR BASE	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52815	0239-OAK-FPS-SPK-096: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52816	0239-OAK-FPS-SPK-097: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52817	0239-OAK-FPS-SPK-098: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52818	0239-OAK-FPS-SPK-099: OAKDALE POWER PLANT SPRINKLER HEAD	SERIALIZED	SPRINKLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52819	0239-OAK-FPS-V-001: OAKDALE POWER PLANT AUXILARY DRAIN VALVE,KICE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52820	0239-OAK-FPS-V-002: OAKDALE POWER PLANT INSPECTOR TEST VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52821	0239-OAK-FPS-V-003: OAKDALE POWER PLANT AUXILARY DRAIN VALVE, BUCKET ELEVATOR BASE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52822	0239-OAK-FPS-V-004: OAKDALE POWER PLANT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52823	0239-OAK-FPS-V-005: OAKDALE POWER PLANT MAIN DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52824	0239-OAK-FPS-V-006: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION DRY VALVE DRIP CHECK VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52825	0239-OAK-FPS-V-007: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION DRY VALVE PRIMING WATER LEVEL TEST	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52826	0239-OAK-FPS-V-008: OAKDALE POWER PLANT ALTERNATE ENERGY SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52827	0239-OAK-FPS-V-009: OAKDALE POWER PLANT REG. AIR OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52828	0239-OAK-FPS-V-010: OAKDALE POWER PLANT REGULATED AIR INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52829	0239-OAK-FPS-V-011: OAKDALE POWER PLANT AIR COMPRESSOR OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52830	0239-OAK-FPS-V-012: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION DRY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52831	0239-OAK-FPS-V-013: OAKDALE POWER PLANT ENGINE ROOM DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52832	0239-OAK-FPS-V-014: OAKDALE POWER PLANT INSPECTOR TEAT FLOW VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52833	0239-OAK-FPS-V-016: OAKDALE POWER PLANT BIOMASS FIRE PROTECTION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52834	0239-OAK-FPS-V-017: OAKDALE POWER PLANT PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52835	0239-OAK-FPS-V-018: OAKDALE POWER PLANT MAIN DRAIN	SERIALIZED	VALVE ANGLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52836	0239-OAK-FPS-V-019: OAKDALE POWER PLANT MAIN DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52837	0239-OAK-FPS-V-020: OAKDALE POWER PLANT OAK-FPS-BFS-001 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52838	0239-OAK-FPS-V-021: OAKDALE POWER PLANT OAKDALE POWER PLANT FIRE PROTECTION SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52839	0239-OAK-FPS-V-022: OAKDALE POWER PLANT AIR REGULATOR BY-PASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52840	0239-OAK-FPS-V-023: OAKDALE POWER PLANT DRAIN OFF OAK-FPS-V-021	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52841	0239-OAK-FPS-V-024: OAKDALE POWER PLANT TEST VALVE #1 ON OAK-FPS-BFP-	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52842	0239-OAK-FPS-V-025: OAKDALE POWER PLANT TEST VALVE #2 ON OAK-FPS-BFP-	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52843	0239-OAK-FPS-V-026: OAKDALE POWER PLANT DRAIN OFF OAK-FPS-BFP-003	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52844	0239-OAK-FPS-V-027: OAKDALE POWER PLANT FIRE PROTECTION SYSTEM VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52845	0239-OAK-FPS-V-028: OAKDALE POWER PLANT FUTURE FIRE PROTECTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52846	0239-OAK-FPS-V-029: OAKDALE POWER PLANT OAK-FPS-PS-001 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52847	0239-OAK-FPS-V-030: OAKDALE POWER PLANT OAK-FPS-LVS-004 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52848	0239-OAK-BDS-LC-001: OAKDALE POWER PLANT CONTINUOUS BLOWDOWN SYSTEM FLASH TANK	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52849	0239-OAK-LPS-PG-001: OAKDALE POWER PLANT DA STEAM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52850	0239-OAK-LPS-PG-002: OAKDALE POWER PLANT LOW PRESSURE STEAM PAPER/GARAGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52851	0239-OAK-LPS-PT-001: OAKDALE POWER PLANT LOW PRESSURE STEAM PRV 2 OUTLET PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52852	0239-OAK-LPS-PT-002: OAKDALE POWER PLANT LOW PRESSURE STEAM HOT WATER HEAT EXCHANGER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52853	0239-OAK-LPS-RV-001: OAKDALE POWER PLANT LOW PRESSURE STEAM PAPER/GARAGE RV	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52854	0239-OAK-LPS-V-001: OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE GAUGE 1 ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52855	0239-OAK-LPS-V-002 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE TRANSMITTER 2 ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52856	0239-OAK-LPS-V-003 : OAKDALE POWER PLANT PRV 1 OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52857	0239-OAK-LPS-V-004 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRV 2 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52858	0239-OAK-LPS-V-005 : OAKDALE POWER PLANT LOW PRESSURE STEAM PG 1/PT 1 ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52859	0239-OAK-LPS-V-006 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52860	0239-OAK-LPS-V-007 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52861	0239-OAK-LPS-V-008 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52862	0239-OAK-LPS-V-009 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52863	0239-OAK-LPS-V-010 : OAKDALE POWER PLANT REMOVED GAUGE ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52864	0239-OAK-LPS-V-011 : OAKDALE POWER PLANT REMOVED GAUGE ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52865	0239-OAK-LPS-V-012 : OAKDALE POWER PLANT REMOVED GAUGE ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52866	0239-OAK-LPS-V-013 : OAKDALE POWER PLANT LOW PRESSURE STEAM DRAIN VALVE ISOLATION VAVLE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52867	0239-OAK-LPS-V-014 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52868	0239-OAK-LPS-V-015 : OAKDALE POWER PLANT PRV 2 OUTLET PLUGGED VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52869	0239-OAK-LPS-V-016 : OAKDALE POWER PLANT LOW PRESSURE STEAM OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52870	0239-OAK-LPS-V-017 : OAKDALE POWER PLANT LOW PRESSURE STEAM DRAIN VALVE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52871	0239-OAK-LPS-V-018 : OAKDALE POWER PLANT LOW PRESSURE STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52872	0239-OAK-LPS-V-019 : OAKDALE POWER PLANT LOW PRESSURE STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52873	0239-OAK-LPS-V-020 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 8 INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52874	0239-OAK-LPS-V-021 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 8 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52875	0239-OAK-LPS-V-022 : OAKDALE POWER PLANT LOW PRESSURE STEAM PLUGGED VALVE INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52876	0239-OAK-LPS-V-023 : OAKDALE POWER PLANT LOW PRESSURE STEAM PLUGGED	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52877	0239-OAK-LPS-V-024 : OAKDALE POWER PLANT LOW PRESSURE STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52878	0239-OAK-LPS-V-025 : OAKDALE POWER PLANT LOW PRESSURE STEAM DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52879	0239-OAK-LPS-V-026 : OAKDALE POWER PLANT LOW PRESSURE STEAM DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52880	0239-OAK-LPS-V-027 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE GAUGE 2 ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52881	0239-OAK-LPS-V-028 : OAKDALE POWER PLANT LOW PRESSURE STEAM PT 2 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52882	0239-OAK-LPS-V-029 : OAKDALE POWER PLANT LOW PRESSURE STEAM VALVE PT 2 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52883	0239-OAK-LPS-V-030 : OAKDALE POWER PLANT LOW PRESSURE STEAM PT 2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52884	0239-OAK-LPS-V-031 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE TRANSMITTER 1 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52885	0239-OAK-LPS-V-032 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE TRANSMITTER 1 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52886	0239-OAK-LPS-V-033 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE TRANSMITTER 1 INLET VENT	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52887	0239-OAK-LPS-V-034 : OAKDALE POWER PLANT LOW PRESSURE STEAM PRESSURE TRANSMITTER 1 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52888	0239-OAK-LPS-V-035 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 4 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52889	0239-OAK-LPS-V-036 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 52 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52890	0239-OAK-LPS-V-037 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 52 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52891	0239-OAK-LPS-V-038 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 52 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52892	0239-OAK-LPS-V-039 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 4 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52893	0239-OAK-LPS-V-040 : OAKDALE POWER PLANT HWS HX 3 OUTLET LPS ISO VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52894	0239-OAK-LPS-V-041 : OAKDALE POWER PLANT HWS HX 3 OUTLET LPS ISO VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52895	0239-OAK-LPS-V-042 : OAKDALE POWER PLANT HWS HX 3 OUTLET LPS DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52896	0239-OAK-LPS-YS-001 : OAKDALE POWER PLANT LOW PRESSURE STEAM TRAP 52 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52897	0239-OAK-LPS-YS-002 : OAKDALE POWER PLANT HWS HX 3 OUTLET LPS	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52898	0239-OAK-MPS-CHK-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 20/BYPASS INLET CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52899	0239-OAK-MPS-CHK-002 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 9 INLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52900	0239-OAK-MPS-HTR-001 : OAKDALE POWER PLANT LOADING DOCK STEAM	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52901	0239-OAK-MPS-HTR-002 : OAKDALE POWER PLANT ELECTRICAL ROOM EAST END UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52902	0239-OAK-MPS-HTR-003 : OAKDALE POWER PLANT ELECTRICAL ROOM WEST END UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52903	0239-OAK-MPS-HTR-004 : OAKDALE POWER PLANT HOT WATER PUMP ROOM WEST END UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52904	0239-OAK-MPS-HTR-005 : OAKDALE POWER PLANT ENGINE ROOM WEST WALL UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52905	0239-OAK-MPS-HTR-006 : OAKDALE POWER PLANT SALT TANK ROOM EAST END UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52906	0239-OAK-MPS-HTR-007 : OAKDALE POWER PLANT OFFICE BASEBOARD	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52907	0239-OAK-MPS-HTR-008 : OAKDALE POWER PLANT CONTROL ROOM BASEBOARD RADIATOR	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52908	0239-OAK-MPS-HTR-009 : OAKDALE POWER PLANT BREAK ROOM	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52909	0239-OAK-MPS-HTR-010 : OAKDALE POWER PLANT BY DOOR #1 UNIT	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52910	0239-OAK-MPS-HTR-011 : OAKDALE POWER PLANT CEILING ABOVE BREAK ROOM HEAT RECOVERY UNIT	SERIALIZED	AIR HANDLING UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52911	0239-OAK-MPS-HTR-012 : OAKDALE POWER PLANT BATHROOM BASEBOARD	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52912	0239-OAK-MPS-HTR-013 : OAKDALE POWER PLANT GAS METER ROOM	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52913	0239-OAK-MPS-HTR-014 : OAKDALE POWER PLANT BY DOOR #4 UNIT	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52914	0239-OAK-MPS-HTR-015 : OAKDALE POWER PLANT BAGHOUSE EXHAUST FAN ROOM UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52915	0239-OAK-MPS-HTR-016 : OAKDALE POWER PLANT BAGHOUSE ROOM UNIT	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52916	0239-OAK-MPS-HTR-017 : OAKDALE POWER PLANT STORAGE BUNKER NORTH END UNIT HEATER	SERIALIZED	UNIT HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52917	0239-OAK-MPS-HTR-018 : OAKDALE POWER PLANT MAIN PLANT	SERIALIZED	RADIATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52918	0239-OAK-MPS-PG-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52919	0239-OAK-MPS-PG-002 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52920	0239-OAK-MPS-PG-003 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM EAST CAMPUS PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52921	0239-OAK-MPS-PG-004 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM NORTH CAMPUS STEAM DISTRIBUTION PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52922	0239-OAK-MPS-PRS-001 : OAKDALE POWER PLANT LOW STEAM PRESSURE	SERIALIZED	SENSOR PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52923	0239-OAK-MPS-PRS-002 : OAKDALE POWER PLANT HIGH STEAM PRESSURE	SERIALIZED	SENSOR PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52924	0239-OAK-MPS-PT-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52925	0239-OAK-MPS-PT-002 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PT, STEAM DISTRIBUTION AUTO-	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52926	0239-OAK-MPS-TG-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52928	0239-OAK-MPS-V-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52929	0239-OAK-MPS-V-002 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52930	0239-OAK-MPS-V-003 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 2 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52931	0239-OAK-MPS-V-004 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 2 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52932	0239-OAK-MPS-V-005 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 3 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52933	0239-OAK-MPS-V-006 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 4 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52934	0239-OAK-MPS-V-007 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 4 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52935	0239-OAK-MPS-V-008 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1-4 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52936	0239-OAK-MPS-V-009 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 5 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52937	0239-OAK-MPS-V-010 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1-5 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52938	0239-OAK-MPS-V-011 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 6 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52939	0239-OAK-MPS-V-012 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1-6 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52940	0239-OAK-MPS-V-013 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM OUTLET DRAIN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52941	0239-OAK-MPS-V-014 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52942	0239-OAK-MPS-V-015 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 7-11 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52943	0239-OAK-MPS-V-016 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52944	0239-OAK-MPS-V-017 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 10 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52945	0239-OAK-MPS-V-018 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 8, 9, 11 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52946	0239-OAK-MPS-V-019 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 8 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52947	0239-OAK-MPS-V-020 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 8 INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52948	0239-OAK-MPS-V-021 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 9 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52949	0239-OAK-MPS-V-022 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 9 INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52950	0239-OAK-MPS-V-023 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 11 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52951	0239-OAK-MPS-V-024 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 11/BYPASS INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52953	0239-OAK-MPS-V-026 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 7 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52954	0239-OAK-MPS-V-027 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52955	0239-OAK-MPS-V-028 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM OUTLET DRAIN ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52956	0239-OAK-MPS-V-029 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52957	0239-OAK-MPS-V-030 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 12 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52958	0239-OAK-MPS-V-031 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 12 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52959	0239-OAK-MPS-V-032 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52960	0239-OAK-MPS-V-033 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED LINE INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52961	0239-OAK-MPS-V-034 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED LINE INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52962	0239-OAK-MPS-V-035 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52963	0239-OAK-MPS-V-036 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52964	0239-OAK-MPS-V-037 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52965	0239-OAK-MPS-V-038 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 13 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52966	0239-OAK-MPS-V-039 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 13 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52967	0239-OAK-MPS-V-040 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 13 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52968	0239-OAK-MPS-V-041 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1-13 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52969	0239-OAK-MPS-V-042 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52970	0239-OAK-MPS-V-043 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52971	0239-OAK-MPS-V-044 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52972	0239-OAK-MPS-V-045 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52973	0239-OAK-MPS-V-046 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52974	0239-OAK-MPS-V-047 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52975	0239-OAK-MPS-V-048 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52976	0239-OAK-MPS-V-049 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52977	0239-OAK-MPS-V-050 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 14 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52978	0239-OAK-MPS-V-051 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 15-17 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52979	0239-OAK-MPS-V-052 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 15 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52980	0239-OAK-MPS-V-053 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 15 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52981	0239-OAK-MPS-V-054 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 16 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52982	0239-OAK-MPS-V-055 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 16 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52983	0239-OAK-MPS-V-056 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 17 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52984	0239-OAK-MPS-V-057 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 17 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52985	0239-OAK-MPS-V-058 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 55 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52986	0239-OAK-MPS-V-059 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52987	0239-OAK-MPS-V-060 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 1-17 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52988	0239-OAK-MPS-V-061 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52989	0239-OAK-MPS-V-062 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52990	0239-OAK-MPS-V-063 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52991	0239-OAK-MPS-V-064 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM FROM BLR 4 ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52992	0239-OAK-MPS-V-065 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEAD BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52993	0239-OAK-MPS-V-066 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM LPS INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52994	0239-OAK-MPS-V-067 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM LPS INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
52995	0239-OAK-MPS-V-068 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRV 2 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52996	0239-OAK-MPS-V-069 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PT 1 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52997	0239-OAK-MPS-V-070 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE GAUGE 1 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52998	0239-OAK-MPS-V-071 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PG 1/PT 1 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
52999	0239-OAK-MPS-V-072 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM VENT INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53000	0239-OAK-MPS-V-073 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53001	0239-OAK-MPS-V-074 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53002	0239-OAK-MPS-V-075 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53003	0239-OAK-MPS-V-076 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53004	0239-OAK-MPS-V-077 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE SENSOR 1, 2 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53005	0239-OAK-MPS-V-078 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE SENSOR 1, 2 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53006	0239-OAK-MPS-V-079 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53007	0239-OAK-MPS-V-080 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53008	0239-OAK-MPS-V-081 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53009	0239-OAK-MPS-V-082 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53010	0239-OAK-MPS-V-083 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53011	0239-OAK-MPS-V-084 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE GAUGE 2 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53012	0239-OAK-MPS-V-085 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE GAUGE 2 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53013	0239-OAK-MPS-V-086 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53014	0239-OAK-MPS-V-087 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53015	0239-OAK-MPS-V-088 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM BLR 3 HEADER INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53016	0239-OAK-MPS-V-089 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET ISOLATION VALVE TO HOT WATER HEAT	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53017	0239-OAK-MPS-V-090 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRV 1 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53018	0239-OAK-MPS-V-091 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET ISOLATION VALVE TO CHILLED WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53019	0239-OAK-MPS-V-092 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM BLR 2 HEADER INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53020	0239-OAK-MPS-V-093 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER OUTLET ISOLATION VALVE TO HEATER 18	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53021	0239-OAK-MPS-V-094 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 18 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53022	0239-OAK-MPS-V-095 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 18 INLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53023	0239-OAK-MPS-V-096 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM BLR 1 HEADER INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53024	0239-OAK-MPS-V-097 : OAKDALE POWER PLANT MEDIUM PRESSURE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53025	0239-OAK-MPS-V-098 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM MAIN HEADER TO WEST	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53026	0239-OAK-MPS-V-099 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53027	0239-OAK-MPS-V-100 : OAKDALE POWER PLANT MEDIUM PRESSURE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53028	0239-OAK-MPS-V-101 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53029	0239-OAK-MPS-V-102 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53030	0239-OAK-MPS-V-103 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM WEST CAMPUS ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53031	0239-OAK-MPS-V-104 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM VALVE 103 BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53032	0239-OAK-MPS-V-105 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM VALVE 103 BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53033	0239-OAK-MPS-V-106 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53034	0239-OAK-MPS-V-107 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRESSURE GAUGE 3 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53035	0239-OAK-MPS-V-108 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM WEST CAMPUS TEMPORARY CONNECTION ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53036	0239-OAK-MPS-V-109 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEADER OUTLET ISOLATION VALVE TO MTF/NORTH SIDELINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53037	0239-OAK-MPS-V-110 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PG 4/PT 2 INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53038	0239-OAK-MPS-V-111 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PG 4/PT 2 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53039	0239-OAK-MPS-V-112 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53040	0239-OAK-MPS-V-113 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53041	0239-OAK-MPS-V-114 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM EAST CAMPUS OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53042	0239-OAK-MPS-V-115 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM NORTH CAMPUS DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53043	0239-OAK-MPS-V-116 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM VALVE 96 BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53044	0239-OAK-MPS-V-117 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM VALVE 96 BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53045	0239-OAK-MPS-V-118 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53046	0239-OAK-MPS-V-119 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53047	0239-OAK-MPS-V-120 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 3 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53048	0239-OAK-MPS-V-121 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 3 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53049	0239-OAK-MPS-V-122 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PT 1 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53050	0239-OAK-MPS-V-123 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PT 1 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53051	0239-OAK-MPS-V-124 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PT 1 INLET VENT VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53052	0239-OAK-MPS-V-125 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 3 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53053	0239-OAK-MPS-V-126 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 003 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53054	0239-OAK-MPS-V-127 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 027 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53055	0239-OAK-MPS-V-128 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 002 OUTLET PLUGGED	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53056	0239-OAK-MPS-V-129 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 002 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53057	0239-OAK-MPS-V-130 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 028 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53058	0239-OAK-MPS-V-131 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 1 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53059	0239-OAK-MPS-V-132 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53060	0239-OAK-MPS-V-133 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 1 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53061	0239-OAK-MPS-V-134 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 29 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53062	0239-OAK-MPS-V-135 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 4 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53063	0239-OAK-MPS-V-136 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 4 OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53064	0239-OAK-MPS-V-137 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 26 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53065	0239-OAK-MPS-V-138 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 6 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53066	0239-OAK-MPS-V-139 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 46 INLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53067	0239-OAK-MPS-V-140 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 46 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53068	0239-OAK-MPS-V-141 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 12 OUTLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53069	0239-OAK-MPS-V-142 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 20/BYPASS INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53070	0239-OAK-MPS-V-143 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 20 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53071	0239-OAK-MPS-V-144 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 20 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53072	0239-OAK-MPS-V-145 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53073	0239-OAK-MPS-V-146 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 19 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53074	0239-OAK-MPS-V-147 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 19 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53075	0239-OAK-MPS-V-148 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 23 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53076	0239-OAK-MPS-V-149 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 16 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53077	0239-OAK-MPS-V-150 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 16 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53078	0239-OAK-MPS-V-152 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 16/BYPASS ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53079	0239-OAK-MPS-V-153 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 17 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53080	0239-OAK-MPS-V-154 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 47 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53081	0239-OAK-MPS-V-155 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 57 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53082	0239-OAK-MPS-V-156 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 57 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53083	0239-OAK-MPS-V-158 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 42 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53084	0239-OAK-MPS-V-159 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 42 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53085	0239-OAK-MPS-V-160 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 43 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53086	0239-OAK-MPS-V-161 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 43 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53087	0239-OAK-MPS-V-162 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 44 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53088	0239-OAK-MPS-V-163 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 44 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53089	0239-OAK-MPS-V-164 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 42-44 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53090	0239-OAK-MPS-V-165 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 18 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53091	0239-OAK-MPS-V-166 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 18 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53092	0239-OAK-MPS-V-167 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 18 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53093	0239-OAK-MPS-V-168 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 22 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53094	0239-OAK-MPS-V-169 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 22 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53095	0239-OAK-MPS-V-170 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 14/BYPASS ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53096	0239-OAK-MPS-V-171 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 22/BYPASS ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53097	0239-OAK-MPS-V-172 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53098	0239-OAK-MPS-V-173 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 56 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53099	0239-OAK-MPS-V-174 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 56 INLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53100	0239-OAK-MPS-V-175 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 17 OUTLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53101	0239-OAK-MPS-V-176 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 55 INLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53102	0239-OAK-MPS-V-177 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 54 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53103	0239-OAK-MPS-V-178 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 54 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53104	0239-OAK-MPS-V-179 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 16 OUTLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53105	0239-OAK-MPS-V-180 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 53 INLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53106	0239-OAK-MPS-V-181 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 53 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53107	0239-OAK-MPS-V-182 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 15 OUTLET PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53108	0239-OAK-MPS-V-183 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 15 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53109	0239-OAK-MPS-V-184 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 15 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53110	0239-OAK-MPS-V-185 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 16/BYPASS INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53111	0239-OAK-MPS-V-186 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53112	0239-OAK-MPS-V-187 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 14 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53113	0239-OAK-MPS-V-188 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 58 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53114	0239-OAK-MPS-V-189 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 5 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53115	0239-OAK-MPS-V-190 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 6 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53116	0239-OAK-MPS-V-191 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 6 INLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53117	0239-OAK-MPS-V-192 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 7 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53118	0239-OAK-MPS-V-193 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 7 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53119	0239-OAK-MPS-V-194 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53120	0239-OAK-MPS-V-195 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53121	0239-OAK-MPS-V-196 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM PRV 3 INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53122	0239-OAK-MPS-VAC-001 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 001 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53123	0239-OAK-MPS-VAC-002 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 002 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53124	0239-OAK-MPS-VAC-003 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 15 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53125	0239-OAK-MPS-VAC-004 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 4 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53126	0239-OAK-MPS-VAC-005 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 17 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53127	0239-OAK-MPS-VAC-006 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 16 VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53128	0239-OAK-MPS-YS-001 : OAKDALE POWER PLANT NORTH STORAGE BUNKER UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53129	0239-OAK-MPS-YS-002 : OAKDALE POWER PLANT BAGHOUSE EXHAUST FAN RM UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53130	0239-OAK-MPS-YS-003 : OAKDALE POWER PLANT BAGHOUSE RM UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53131	0239-OAK-MPS-YS-004 : OAKDALE POWER PLANT HOT WATER PUMP RM WEST UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53132	0239-OAK-MPS-YS-005 : OAKDALE POWER PLANT ELECTRICAL RM WEST UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53133	0239-OAK-MPS-YS-006 : OAKDALE POWER PLANT ELECTRICAL RM EAST UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53134	0239-OAK-MPS-YS-007 : OAKDALE POWER PLANT LOADING DOCK UNIT HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53135	0239-OAK-MPS-YS-008 : OAKDALE POWER PLANT CEILING ABOVE BREAK ROOM TRAP 45 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53136	0239-OAK-MPS-YS-009 : OAKDALE POWER PLANT CEILING ABOUT BREAK RM TRAP 13 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53137	0239-OAK-MPS-YS-010 : OAKDALE POWER PLANT BASMENT MAIN ROOM TRAP 18 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53138	0239-OAK-MPS-YS-011 : OAKDALE POWER PLANT BASEMENT MAIN RM TRAP 22 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53139	0239-OAK-MPS-YS-012 : OAKDALE POWER PLANT BASEMENT NORTH END OF STORAGE BUNKER TRAP 56 INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53140	0239-OAK-MPS-YS-013 : OAKDALE POWER PLANT NORTH END STORAGE BUNKER TRAP 55 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53141	0239-OAK-MPS-YS-014 : OAKDALE POWER PLANT TRAP 54 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53142	0239-OAK-MPS-YS-015 : OAKDALE POWER PLANT TRAP 53 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53143	0239-OAK-MPS-YS-016 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HTR 14 OUTLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53144	0239-OAK-MPS-YS-017 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 29 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53145	0239-OAK-MPS-YS-018 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 28 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53146	0239-OAK-MPS-YS-019 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 27 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53147	0239-OAK-MPS-YS-020 : OAKDALE POWER PLANT MEDIUM PRESSURE SYSTEM TRAP 26 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53148	0239-OAK-MPS-YS-021 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 20 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53149	0239-OAK-MPS-YS-022 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 46 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53150	0239-OAK-MPS-YS-023 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM HEATER 11 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53151	0239-OAK-MPS-YS-024 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 19 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53152	0239-OAK-MPS-YS-025 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM TRAP 23 INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53153	0239-OAK-MUS-BFP-001: OAKDALE POWER PLANT WATER SOFTENER TO WHITE VESSEL R/O SYSTEM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53154	0239-OAK-MUS-BFP-002: OAKDALE POWER PLANT WATER SOFTENER TO WHITE VESSEL R/O SYSTEM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53155	0239-OAK-MUS-BFP-003: OAKDALE POWER PLANT WATER SOFTENER TO BLUE VESSEL R/O SYSTEM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53156	0239-OAK-MUS-BFP-004: OAKDALE POWER PLANT WATER SOFTENER TO BLUE VESSEL R/O SYSTEM BACKFLOW	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53157	0239-OAK-MUS-BFP-005: OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TO CHILLED WATER SYSTEM	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53158	0239-OAK-MUS-BFP-006: OAKDALE POWER PLANT MAKE-UP WATER TO BOILER ONE BACK FLOW PREVENTER	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53159	0239-OAK-MUS-BFP-007: OAKDALE POWER PLANT WATER SOFTENER TO MAKE UP WATER PUMP ROOM	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53160	0239-OAK-MUS-CHK-001 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53161	0239-OAK-MUS-CHK-002 : OAKDALE POWER PLANT MAKE-UP WATER ANTISCALANT CHEMICAL FEED CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53162	0239-OAK-MUS-CHK-003 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53163	0239-OAK-MUS-CHK-004 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53164	0239-OAK-MUS-CHK-005 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53165	0239-OAK-MUS-CHK-006 : OAKDALE POWER PLANT MAKE-UP WATER ANTISCALANT CHEMICAL FEED CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53166	0239-OAK-MUS-CHK-007 : OAKDALE POWER PLANT MAKE-UP WATER SOUTH PUMP DISHARGET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53167	0239-OAK-MUS-CHK-008 : OAKDALE POWER PLANT MAKE-UP WATER NORTH PUMP DISHARGET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53168	0239-OAK-MUS-CHK-009 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL TANK CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53169	0239-OAK-MUS-CHK-010 : OAKDALE POWER PLANT MAKE-UP TANK LOW LEVEL ALARM SWITCH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53170	0239-OAK-MUS-CND-001 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM CONDUCTIVITY CELL	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53171	0239-OAK-MUS-CND-002 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM CONDUCTIVITY CELL	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53172	0239-OAK-MUS-CV-002 : OAKDALE POWER PLANT MAKE-UP WATER BRING TANK CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53173	0239-OAK-MUS-CV-003 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53174	0239-OAK-MUS-CV-004 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53175	0239-OAK-MUS-CV-005 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53176	0239-OAK-MUS-CV-006 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53177	0239-OAK-MUS-CV-007 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53178	0239-OAK-MUS-CV-008 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53179	0239-OAK-MUS-CV-009 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53180	0239-OAK-MUS-CV-010 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53181	0239-OAK-MUS-CV-011 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53182	0239-OAK-MUS-CV-012 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53183	0239-OAK-MUS-CV-013 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53184	0239-OAK-MUS-CV-014 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 2 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53185	0239-OAK-MUS-CV-015 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 3 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53186	0239-OAK-MUS-CV-016 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53187	0239-OAK-MUS-CV-017 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53188	0239-OAK-MUS-CV-018 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53189	0239-OAK-MUS-CV-019 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 DRAIN CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53190	0239-OAK-MUS-CV-020 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 3 CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53191	0239-OAK-MUS-CV-021 : OAKDALE POWER PLANT MAKE-UP WATER BRINE TANK OULET TO SETTING TANK	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53192	0239-OAK-MUS-FIL-001 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TO R/O SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53193	0239-OAK-MUS-FIL-002 : OAKDALE POWER PLANT MAKE-UP WATER WHITE R/O SYSTEM FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53194	0239-OAK-MUS-FM-001 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM OUTLET FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53195	0239-OAK-MUS-FM-002 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM INLET FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53196	0239-OAK-MUS-FM-003 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER SOFTENER FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53197	0239-OAK-MUS-FM-004 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER SOFTENERS OUTLET	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53198	0239-OAK-MUS-FM-005 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM PUMP FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53199	0239-OAK-MUS-FM-006 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER SOFTENER 1 FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53200	0239-OAK-MUS-FM-007 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER SOFTENER 2 FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53201	0239-OAK-MUS-FM-008 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER SOFTENER 3 FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53202	0239-OAK-MUS-FM-009 : OAKDALE POWER PLANT MAKE-UP WATER EAST R/O SYSTEM INLET FLOW METER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53203	0239-OAK-MUS-LI-001 : OAKDALE POWER PLANT MAKE-UP WATER TANK LEVEL INDICATOR	SERIALIZED	LEVEL INDICATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53205	0239-OAK-MUS-LS-002 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM HIGH LEVEL ALARM SWITCH	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53206	0239-OAK-MUS-LT-001 : OAKDALE POWER PLANT MAKE-UP WATER TANK LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53207	0239-OAK-MUS-LT-002 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53208	0239-OAK-MUS-LVS-001 : OAKDALE POWER PLANT MAKE-UP WATER BRINE MAKER TANK LEVEL SWITCH	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53209	0239-OAK-MUS-MOV-001 : OAKDALE POWER PLANT MAKE UP WATER EAST R/O TANKS MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53210	0239-OAK-MUS-P-001 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK DIAPHRAGM	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53211	0239-OAK-MUS-P-002 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK DIAPHRAGM	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53212	0239-OAK-MUS-P-003 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL FEED PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53213	0239-OAK-MUS-P-004 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53214	0239-OAK-MUS-P-005 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53215	0239-OAK-MUS-P-006 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL FEED PUMP	SERIALIZED	PUMP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53216	0239-OAK-MUS-P-CNT-001 : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53217	0239-OAK-MUS-P-CNT-002 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM CENTRIFUGAL PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53218	0239-OAK-MUS-P-CNT-003 : OAKDALE POWER PLANT MAKE-UP WATER CENTRIFUGAL PUMP-003	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53219	0239-OAK-MUS-P-CNT-004 : OAKDALE POWER PLANT MAKE-UP WATER CENTRIFUGAL PUMP-004	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53220	0239-OAK-MUS-P-CNT-005 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53221	0239-OAK-MUS-P-CNT-006 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53222	0239-OAK-MUS-PG-001 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM VESSELS PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53223	0239-OAK-MUS-PG-002 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PUMP PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53224	0239-OAK-MUS-PG-003 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PUMP PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53225	0239-OAK-MUS-PG-004 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53226	0239-OAK-MUS-PG-005 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PUMP PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53227	0239-OAK-MUS-PG-006 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53228	0239-OAK-MUS-PG-008 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53229	0239-OAK-MUS-PG-009 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53230	0239-OAK-MUS-PG-011 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53231	0239-OAK-MUS-PG-012 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53232	0239-OAK-MUS-PG-013 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53233	0239-OAK-MUS-PG-014 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53234	0239-OAK-MUS-PG-015 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53235	0239-OAK-MUS-PG-016 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53236	0239-OAK-MUS-PG-017 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53237	0239-OAK-MUS-PG-018 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK PUMPS OUTLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53238	0239-OAK-MUS-PG-146 : OAKDALE POWER PLANT MAKE-UP WATER SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53239	0239-OAK-MUS-PG-155 : OAKDALE POWER PLANT MAKE-UP WATER PUMP- 003 DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53240	0239-OAK-MUS-PG-160 : OAKDALE POWER PLANT MAKE-UP WATER PUMP- 004 DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53241	0239-OAK-MUS-PH-001 : OAKDALE POWER PLANT MAKE-UP WATER EAST R/O PH LEVEL SENSOR	SERIALIZED	SENSOR PH	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53242	0239-OAK-MUS-PS-001 : OAKDALE POWER PLANT MAKE-UP WATER EAST R/O LOW SUCTION PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53243	0239-OAK-MUS-REG-001 : OAKDALE POWER PLANT MAKE-UP WATER SUPPLY PRESSURE REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53244	0239-OAK-MUS-RV-001 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53245	0239-OAK-MUS-RV-002 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53246	0239-OAK-MUS-RV-003 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 1 AUTO-VENT VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53247	0239-OAK-MUS-RV-004 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 2 AUTO-VENT VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53248	0239-OAK-MUS-RV-005 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER 3 AUTO-VENT VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53249	0239-OAK-MUS-SG-004 : OAKDALE POWER PLANT MAIN CHEMICAL FEED TANK LEVEL SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53250	0239-OAK-MUS-SOV-001 : OAKDALE POWER PLANT MAKE-UP WATER WEST R/O PUMP SUCTION ISOLATION	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53251	0239-OAK-MUS-TG-002 : OAKDALE POWER PLANT MAKE-UP WATER EAST R/O SYSTEM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53252	0239-OAK-MUS-TNK-001 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53253	0239-OAK-MUS-TNK-002 : OAKDALE POWER PLANT MAKE-UP WATER BRINE	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53254	0239-OAK-MUS-TNK-003 : OAKDALE POWER PLANT MAKE-UP WATER BRINE	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53255	0239-OAK-MUS-TNK-004 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL CONTAINER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53256	0239-OAK-MUS-TNK-005 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL CONTAINER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53257	0239-OAK-MUS-TNK-006 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53258	0239-OAK-MUS-TNK-007 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL FEED	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53259	0239-OAK-MUS-TNK-010 : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53260	0239-OAK-MUS-TNK-011 : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53261	0239-OAK-MUS-V-001 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53262	0239-OAK-MUS-V-002 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM TO MAKE-UP TANK DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53263	0239-OAK-MUS-V-003 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM TO MAKE-UP TANK OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53264	0239-OAK-MUS-V-004 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53265	0239-OAK-MUS-V-005 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM TO MAKE-UP TANK DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53266	0239-OAK-MUS-V-006 : OAKDALE POWER PLANT MAKE-UP WATER CHEMICAL FEED CAUSTIC SODA TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53267	0239-OAK-MUS-V-007 : OAKDALE POWER PLANT MAKE-UP WATER CHEMICAL FEED CAUSTIC SODA TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53268	0239-OAK-MUS-V-008 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53269	0239-OAK-MUS-V-009 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53270	0239-OAK-MUS-V-010 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM TO MAKE-UP TANK VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53271	0239-OAK-MUS-V-011 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RV SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53272	0239-OAK-MUS-V-012 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RV DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53273	0239-OAK-MUS-V-013 : OAKDALE POWER PLANT MAKE-UP WATER CHEMICAL FEED CAUSTIC SODA TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53274	0239-OAK-MUS-V-014 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL FEED VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53275	0239-OAK-MUS-V-015 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53276	0239-OAK-MUS-V-015 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53277	0239-OAK-MUS-V-017 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RV SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53278	0239-OAK-MUS-V-018 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM RV BYPASS DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53279	0239-OAK-MUS-V-019 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM OUTLET NON-RETURN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53280	0239-OAK-MUS-V-020 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53281	0239-OAK-MUS-V-021 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53282	0239-OAK-MUS-V-022 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53283	0239-OAK-MUS-V-023 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM INTAKE SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53284	0239-OAK-MUS-V-024 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM SIGHT GLASS ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53285	0239-OAK-MUS-V-025 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PRESSURE GAUGE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53286	0239-OAK-MUS-V-026 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PUMP ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53287	0239-OAK-MUS-V-027 : OAKDALE POWER PLANT MAKE-UP WATER CHEMICAL FEED INLET VALVE TO R/O	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53288	0239-OAK-MUS-V-028 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53289	0239-OAK-MUS-V-029 : OAKDALE POWER PLANT MAKE-UP WATER CAUSTIC SODA CHEMICAL FEED VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53290	0239-OAK-MUS-V-030 : OAKDALE POWER PLANT MAKE-UP WATER CHEMICAL FEED ANTISCALANT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53291	0239-OAK-MUS-V-031 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53292	0239-OAK-MUS-V-032 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL FEED VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53293	0239-OAK-MUS-V-033 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53294	0239-OAK-MUS-V-034 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53295	0239-OAK-MUS-V-035 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53296	0239-OAK-MUS-V-036 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53297	0239-OAK-MUS-V-037 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53298	0239-OAK-MUS-V-038 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53299	0239-OAK-MUS-V-039 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TANK DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53300	0239-OAK-MUS-V-040 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53301	0239-OAK-MUS-V-041 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53302	0239-OAK-MUS-V-042 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53303	0239-OAK-MUS-V-043 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53304	0239-OAK-MUS-V-044 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53305	0239-OAK-MUS-V-045 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53306	0239-OAK-MUS-V-046 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53307	0239-OAK-MUS-V-047 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53308	0239-OAK-MUS-V-048 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM VESSEL SAMPLE VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53309	0239-OAK-MUS-V-049 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TO R/O SYSTEM DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53310	0239-OAK-MUS-V-050 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM PRESSURE GAUGE VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53311	0239-OAK-MUS-V-051 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM MEMBRANE FEED CONTROL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53312	0239-OAK-MUS-V-052 : OAKDALE POWER PLANT MAKE-UP WATER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53313	0239-OAK-MUS-V-053 : OAKDALE POWER PLANT MAKE-UP WATER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53314	0239-OAK-MUS-V-054 : OAKDALE POWER PLANT MAKE-UP WATER R/O ANTISCALANT CHEMICAL INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53315	0239-OAK-MUS-V-055 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED PUMP VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53316	0239-OAK-MUS-V-056 : OAKDALE POWER PLANT MAIN CHEMICAL FEED TANK OUTLET VALVE TO PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53317	0239-OAK-MUS-V-057 : OAKDALE POWER PLANT MAIN CHEMICAL FEED TANK OUTLET VALVE TO PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53318	0239-OAK-MUS-V-058 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED PUMP VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53319	0239-OAK-MUS-V-059 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEED TO BLUE R/O SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53320	0239-OAK-MUS-V-060 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53321	0239-OAK-MUS-V-061 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53322	0239-OAK-MUS-V-062 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM BACKFLOW PREVENTER WYE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53323	0239-OAK-MUS-V-063 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM BACKFLOW PREVENTER WYE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53324	0239-OAK-MUS-V-064 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53325	0239-OAK-MUS-V-065 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53326	0239-OAK-MUS-V-066 : OAKDALE POWER PLANT MAKE-UP WATER TO CHILLED WATER PLANT SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53327	0239-OAK-MUS-V-067 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53328	0239-OAK-MUS-V-068 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53329	0239-OAK-MUS-V-069 : OAKDALE POWER PLANT MAKE-UP WATER TO BRINE MAKER TANK SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53330	0239-OAK-MUS-V-070 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM LINE INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53331	0239-OAK-MUS-V-071 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53332	0239-OAK-MUS-V-072 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS AND BRINE TANK VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53333	0239-OAK-MUS-V-073 : OAKDALE POWER PLANT MAKE-UP WATER BRINE TANK OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53334	0239-OAK-MUS-V-074 : OAKDALE POWER PLANT MAKE-UP WATER BRINE TANK DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53335	0239-OAK-MUS-V-075 : OAKDALE POWER PLANT MAIN CHEMICAL FEED TANK SHUTOFF VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53336	0239-OAK-MUS-V-076 : OAKDALE POWER PLANT MAKE-UP WATER BRINE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53337	0239-OAK-MUS-V-077 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM BRINE TANK TO SETTLING TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53338	0239-OAK-MUS-V-078 : OAKDALE POWER PLANT MAKE-UP SYSTEM BRINE TANK TO SETTLING TANK VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53339	0239-OAK-MUS-V-079 : OAKDALE POWER PLANT MAKE-UP WATER SETTLING TANK DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53340	0239-OAK-MUS-V-080 : OAKDALE POWER PLANT POTABLE WATER TO CITY SUPPLY LINE INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53341	0239-OAK-MUS-V-081 : OAKDALE POWER PLANT POTABLE WATER INLET TO CITY SUPPLY LINE DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53342	0239-OAK-MUS-V-082 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53343	0239-OAK-MUS-V-083 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53344	0239-OAK-MUS-V-084 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS FLOW METER BYPASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53345	0239-OAK-MUS-V-085 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS FLOW METER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53346	0239-OAK-MUS-V-086 : OAKDALE POWER PLANT POTABLE WATER TO CITY SUPPLY LINE INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53347	0239-OAK-MUS-V-087 : OAKDALE POWER PLANT MAKE-UP WATER TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53348	0239-OAK-MUS-V-088 : OAKDALE POWER PLANT MAKE-UP WATER TO BOILER 1 BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53349	0239-OAK-MUS-V-089 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM NON/POTABLE WATER INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53350	0239-OAK-MUS-V-090 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53351	0239-OAK-MUS-V-091 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53352	0239-OAK-MUS-V-092 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53353	0239-OAK-MUS-V-093 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO HOT WATER SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53354	0239-OAK-MUS-V-094 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO HOT WATER SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53355	0239-OAK-MUS-V-095 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53356	0239-OAK-MUS-V-096 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53357	0239-OAK-MUS-V-097 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53358	0239-OAK-MUS-V-098 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53359	0239-OAK-MUS-V-099 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53360	0239-OAK-MUS-V-100 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53361	0239-OAK-MUS-V-101 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53362	0239-OAK-MUS-V-102 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53363	0239-OAK-MUS-V-103 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53364	0239-OAK-MUS-V-104 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 CONTROL VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53365	0239-OAK-MUS-V-105 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53366	0239-OAK-MUS-V-106 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 2 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53367	0239-OAK-MUS-V-107 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53368	0239-OAK-MUS-V-108 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53369	0239-OAK-MUS-V-109 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53370	0239-OAK-MUS-V-110 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 CONTROL VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53371	0239-OAK-MUS-V-111 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53372	0239-OAK-MUS-V-112 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 3 FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53373	0239-OAK-MUS-V-113 : OAKDALE POWER PLANT MAKE-UP WATER TO BOILER 1 BACK FLOW PREVENTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53374	0239-OAK-MUS-V-114 : OAKDALE POWER PLANT MAKE-UP WATER BLUE R/O SYSTEM SIGHT GLASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53375	0239-OAK-MUS-V-115 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53376	0239-OAK-MUS-V-116 : OAKDALE POWER PLANT MAKE-UP WATER WHITE R/O SYSTEM SAMPLE VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53377	0239-OAK-MUS-V-117 : OAKDALE POWER PLANT MAKE-UP WATER WHITE R/O SYSTEM FILTER SAMPLE VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53378	0239-OAK-MUS-V-118 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53379	0239-OAK-MUS-V-119 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM SAMPLE VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53380	0239-OAK-MUS-V-120 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK A PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53381	0239-OAK-MUS-V-121 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER TANK 1 CONTROL VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53382	0239-OAK-MUS-V-122 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENER FLOW METER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53383	0239-OAK-MUS-V-123 : OAKDALE POWER PLANT MAKE-UP WATER R/O SYSTEM FILL WATER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53384	0239-OAK-MUS-V-124 : OAKDALE POWER PLANT MAKE-UP WATER R/O FILL WATER TO CONDENSATE RETURN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53385	0239-OAK-MUS-V-126 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM FILL INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53386	0239-OAK-MUS-V-127 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER COLUMN UPPER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53387	0239-OAK-MUS-V-128 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LOW WATER LEVEL DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53388	0239-OAK-MUS-V-129 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LOW LEVEL SWITCH VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53389	0239-OAK-MUS-V-130 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LOW LEVEL SWITCH ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53390	0239-OAK-MUS-V-131 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LOWER INSTRUMENTATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53391	0239-OAK-MUS-V-132 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LOWER LEVEL TAP TO WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53392	0239-OAK-MUS-V-134 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM R/O FILL WATER CONDENSATE RETURN TANK OR FW PUMP SUCTION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53393	0239-OAK-MUS-V-135 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM R/O FILL WATER TO	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53394	0239-OAK-MUS-V-136 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER COLUMN LOWER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53395	0239-OAK-MUS-V-137 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LEVEL TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53396	0239-OAK-MUS-V-138 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53397	0239-OAK-MUS-V-139 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM LEVEL TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53398	0239-OAK-MUS-V-140 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM TO CONDENSATE RETURN TANKS ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53399	0239-OAK-MUS-V-141 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53400	0239-OAK-MUS-V-142 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM TO CONDENSATE RETURN TANKS ISOLATOPM VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53401	0239-OAK-MUS-V-143 : OAKDALE POWER PLANT SOFTENER WATER TO MAKE-UP WATER SYSTEM ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53402	0239-OAK-MUS-V-144 : OAKDALE POWER PLANT SOFTENER WATER SUPPLY TO MAKE-UP WATER SYSTEM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53403	0239-OAK-MUS-V-145 : OAKDALE POWER PLANT SOFTENER WATER SUPPLY TO MAKE-UP WATER SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53404	0239-OAK-MUS-V-146 : OAKDALE POWER PLANT MAKE-UP WATER SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53405	0239-OAK-MUS-V-147 : OAKDALE POWER PLANT MAKE-UP WATER PUMPS COMMON DISCHARGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53407	0239-OAK-MUS-V-148 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM TO MAKE-UP PUMP DISCHARGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53408	0239-OAK-MUS-V-149 : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53409	0239-OAK-MUS-V-150 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM TO MAKE-UP PUMPS SUCTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53410	0239-OAK-MUS-V-151 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM TO MAKE-UP PUMPS SUCTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53412	0239-OAK-MUS-V-152 : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53413	0239-OAK-MUS-V-153 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-003 SUCTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53414	0239-OAK-MUS-V-154 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-003 DISCGARGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53415	0239-OAK-MUS-V-155 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-003 DISCHARGE PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53416	0239-OAK-MUS-V-156 : OAKDALE POWER PLANT MAKE-UP WATER TO BLOWDOWN HX BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53417	0239-OAK-MUS-V-157 : OAKDALE POWER PLANT MAKE-UP WATER TO DA TANK DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53418	0239-OAK-MUS-V-158 : OAKDALE POWER PLANT MAKE-UP WATER RETURN FROM BLOWDOWN HX	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53419	0239-OAK-MUS-V-159 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-004 WYE SUCTION STRAINER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53420	0239-OAK-MUS-V-160 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-004 DISCHARGE PRESSURE GAUGE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53421	0239-OAK-MUS-V-161 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-004 DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53422	0239-OAK-MUS-V-162 : OAKDALE POWER PLANT MAKE-UP WATER TO BLOWDOWN HX ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53423	0239-OAK-MUS-V-163 : OAKDALE POWER PLANT MAKE-UP WATER MINIMUM FLOW LINE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53424	0239-OAK-MUS-V-164 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-004 SUCTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53425	0239-OAK-MUS-V-165 : OAKDALE POWER PLANT MAKE-UP WATER PUMP-003 SUCTION STRAINER BLOWDOWN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53426	0239-OAK-MUS-V-166 : OAKDALE POWER PLANT MAKE-UP WATER R/O'S TO MAKE-UP PUMPS TANK BYPASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53427	0239-OAK-MUS-V-167 : OAKDALE POWER PLANT MAKE-UP WATER MAIN CHEMICAL FEEDL INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53428	0239-OAK-MUS-V-168 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK INLET VALVE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53429	0239-OAK-MUS-V-169 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53430	0239-OAK-MUS-V-170 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK PUMP BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53431	0239-OAK-MUS-V-171 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK PUMP BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53432	0239-OAK-MUS-V-172 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53433	0239-OAK-MUS-V-173 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53434	0239-OAK-MUS-V-174 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53435	0239-OAK-MUS-V-175 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK CENTRIFUGAL PUMP	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53436	0239-OAK-MUS-V-176 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK FILL VALVE FROM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53437	0239-OAK-MUS-V-177 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK OUTLET TO PUMPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53438	0239-OAK-MUS-V-178 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK OUTLET TO PUMPS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53439	0239-OAK-MUS-V-179 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK LEVEL TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53440	0239-OAK-MUS-V-180 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK LEVEL TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53441	0239-OAK-MUS-V-181 : OAKDALE POWER PLANT MAKE-UP WATER TEMPORARY TANK DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53442	0239-OAK-MUS-V-182 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO MAKE-UP TANK PIPE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53443	0239-OAK-MUS-YS-001 : OAKDALE POWER PLANT MAKE-UP WATER TO R/O SYSTEM BACK FLOW PREVENTER WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53444	0239-OAK-MUS-YS-002 : OAKDALE POWER PLANT MAKE-UP WATER TO R/O SYSTEM BACK FLOW PREVENTER WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53445	0239-OAK-MUS-YS-003 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53446	0239-OAK-MUS-YS-004 : OAKDALE POWER PLANT MAKE-UP WATER SOFTENERS TO R/O SYSTEM BACKFLOW	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53447	0239-OAK-MUS-YS-005 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM BACKFLOW PREVENTER WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53449	0239-OAK-MUS-YS-007 : OAKDALE POWER PLANT MAKE-UP WATER SYSTEM BACK FLOW PREVENTER WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53450	0239-OAK-MUS-YS-009 : OAKDALE POWER PLANT MAKE-UP WATER PUMP- 003 WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53451	0239-OAK-MUS-YS-010 : OAKDALE POWER PLANT MAKE-UP WATER PUMP- 004 WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53455	0239-OAK-FW-AOV-001: OAKDALE POWER PLANT MAKE-UP WATER SYSTEM AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53456	0239-OAK-FW-AOV-002: OAKDALE POWER PLANT DEAERATOR POLISHED CONDENSATE INLET CONTROL VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53457	0239-OAK-FW-CHK-001: OAKDALE POWER PLANT FEEDWATER PUMP #5 OUTLET MINIMUM FLOW CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53458	0239-OAK-FW-CHK-002: OAKDALE POWER PLANT FEEDWATER PUMP #5 OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53459	0239-OAK-FW-CHK-003: OAKDALE POWER PLANT FEEDWATER PUMP #4 OUTLET MINIMUM FLOW CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53460	0239-OAK-FW-CHK-004: OAKDALE POWER PLANT FEEDWATER PUMP #4 OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53461	0239-OAK-FW-CHK-005: OAKDALE POWER PLANT FEEDWATER PUMP #3 OUTLET MINIMUM FLOW CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53462	0239-OAK-FW-CHK-006 : OAKDALE POWER PLANT FEEDWATER PUMP #3 OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53463	0239-OAK-FW-CHK-007 : OAKDALE POWER PLANT FEEDWATER PUMP #1 DISCHARGE CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53464	0239-OAK-FW-CHK-008 : OAKDALE POWER PLANT FEEDWATER PUMP #2 DISCHARGE CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53465	0239-OAK-FW-CHK-009 : OAKDALE POWER PLANT NEXGUARD CHEMICAL SUPPLY CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53466	0239-OAK-FW-CHK-010 : OAKDALE POWER PLANT 1820 CHEMICAL SUPPLY	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53467	0239-OAK-FW-CU-001 : OAKDALE POWER PLANT DEAERATOR MUS I/P	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53468	0239-OAK-FW-CU-002 : OAKDALE POWER PLANT DEAERATOR CON I/P	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53469	0239-OAK-FW-DA-001 : OAKDALE POWER PLANT OAKDALE FEEDWATER DEAERATOR TANK	SERIALIZED	DEAERATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53470	0239-OAK-FW-FO-001 : OAKDALE POWER PLANT FEEDWATER PUMPS 1&2 INLET FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53471	0239-OAK-FW-FO-002 : OAKDALE POWER PLANT FEEDWATER PUMPS 3 INLET FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53472	0239-OAK-FW-FO-003 : OAKDALE POWER PLANT FEEDWATER PUMPS 4 INLET FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53473	0239-OAK-FW-FO-004 : OAKDALE POWER PLANT FEEDWATER PUMPS 5 INLET FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53474	0239-OAK-FW-LVS-001 : OAKDALE POWER PLANT DA ALARM LEVEL	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53475	0239-OAK-FW-LS-001 : OAKDALE POWER PLANT DA HIGH LEVEL CONTROL	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53476	0239-OAK-FW-LS-002 : OAKDALE POWER PLANT DA WATER LOW LEVEL INTERLOCK TO FEEDWATER PUMPS	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53477	0239-OAK-FW-LT-001 : OAKDALE POWER PLANT DA LEVEL CONTROL FOR CONDENSATE RETURN	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53478	0239-OAK-FW-LT-002 : OAKDALE POWER PLANT "D" HIGH LEVEL	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53479	0239-OAK-FW-P-CNT-001 : OAKDALE POWER PLANT SMALL FEEDWATER	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53480	0239-OAK-FW-P-CNT-002 : OAKDALE POWER PLANT SMALL FEEDWATER	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53481	0239-OAK-FW-P-CNT-003 : OAKDALE POWER PLANT FEEDWATER PUMP 3	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53482	0239-OAK-FW-P-CNT-004 : OAKDALE POWER PLANT FEEDWATER PUMP 4	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53483	0239-OAK-FW-P-CNT-005 : OAKDALE POWER PLANT FEEDWATER PUMP 5	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53484	0239-OAK-FW-PG-001 : OAKDALE POWER PLANT FW PUMP #1&2 BY-PASS PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53485	0239-OAK-FW-PG-003A : OAKDALE POWER PLANT FEEDWATER PUMP 3 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53486	0239-OAK-FW-PG-003B : OAKDALE POWER PLANT FEEDWATER PUMP 3 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53487	0239-OAK-FW-PG-004A : OAKDALE POWER PLANT FEEDWATER PUMP 4 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53488	0239-OAK-FW-PG-004B : OAKDALE POWER PLANT FEEDWATER PUMP 4 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53489	0239-OAK-FW-PG-005A : OAKDALE POWER PLANT FEEDWATER PUMP 5 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53490	0239-OAK-FW-PG-005B : OAKDALE POWER PLANT FEEDWATER PUMP 5 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53491	0239-OAK-FW-PG-008 : OAKDALE POWER PLANT DEAERATOR PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53492	0239-OAK-FW-PG-009 : OAKDALE POWER PLANT DEAERATOR STEAM	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53493	0239-OAK-FW-RV-001 : OAKDALE POWER PLANT DA RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53494	0239-OAK-FW-RV-002 : OAKDALE POWER PLANT DEAERATOR STEAM	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53495	0239-OAK-FW-SC-001 : OAKDALE POWER PLANT FEEDWATER SYSTEM	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53496	0239-OAK-FW-SC-002 : OAKDALE POWER PLANT DA SYSTEM SAMPLE	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53497	0239-OAK-FW-SG-001 : OAKDALE POWER PLANT OAKDALE DEAERATOR SYSTEM WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53498	0239-OAK-FW-SG-002 : OAKDALE POWER PLANT OAKDALE DEAERATOR SYSTEM WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53499	0239-OAK-FW-TG-001 : OAKDALE POWER PLANT DA SYSTEM	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53500	0239-OAK-FW-TG-002 : OAKDALE POWER PLANT DA SYSTEM LOW PRESSURE STEAM PRV TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53501	0239-OAK-FW-V-001 : OAKDALE POWER PLANT DEAERATOR TO FEEDWATER PUMPS SUCTION HEADER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53502	0239-OAK-FW-V-002 : OAKDALE POWER PLANT NEXGUARD CHEMICAL INJECTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53503	0239-OAK-FW-V-003 : OAKDALE POWER PLANT 1720 CHEMICAL INJECTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53504	0239-OAK-FW-V-004 : OAKDALE POWER PLANT NEXGUARD CHEMICAL SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53505	0239-OAK-FW-V-005 : OAKDALE POWER PLANT 1720 CHEMICAL SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53506	0239-OAK-FW-V-006 : OAKDALE POWER PLANT 1820 CHEMICAL INJECTION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53507	0239-OAK-FW-V-007 : OAKDALE POWER PLANT 1820 CHEMICAL SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53508	0239-OAK-FW-V-008 : OAKDALE POWER PLANT FEEDWATER FROM DA DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53509	0239-OAK-FW-V-009 : OAKDALE POWER PLANT FEEDWATER PUMP #5 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53510	0239-OAK-FW-V-010 : OAKDALE POWER PLANT FEEDWATER PUMP #5 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53511	0239-OAK-FW-V-011 : OAKDALE POWER PLANT FEEDWATER PUMP #5 INLET PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53512	0239-OAK-FW-V-012 : OAKDALE POWER PLANT FEEDWATER PUMP #5 DISCHARGE MINIMUM FLOW VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53513	0239-OAK-FW-V-013 : OAKDALE POWER PLANT FEEDWATER FROM PUMP #5 SAMPLER COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53514	0239-OAK-FW-V-014 : OAKDALE POWER PLANT FEEDWATER PUMP #5 DISCHARGE PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53515	0239-OAK-FW-V-015 : OAKDALE POWER PLANT FEEDWATER PUMP #5 DISCHARGE OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53516	0239-OAK-FW-V-016 : OAKDALE POWER PLANT FEEDWATER PUMP #1&2&3 SUCTION HEADER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53517	0239-OAK-FW-V-017 : OAKDALE POWER PLANT FEEDWATER TO MAKE-UP WATER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53518	0239-OAK-FW-V-018 : OAKDALE POWER PLANT FEEDWATER TO MAKE-UP WATER AND CONDENSATE VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53519	0239-OAK-FW-V-019 : OAKDALE POWER PLANT FEEDWATER PUMP #4 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53520	0239-OAK-FW-V-020 : OAKDALE POWER PLANT FEEDWATER PUMP #4 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53521	0239-OAK-FW-V-021 : OAKDALE POWER PLANT FEEDWATER PUMP #4 INLET PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53522	0239-OAK-FW-V-022 : OAKDALE POWER PLANT FEEDWATER PUMP #4 MINIMUM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53523	0239-OAK-FW-V-023 : OAKDALE POWER PLANT FEEDWATER FROM PUMP #4 SAMPLER COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53524	0239-OAK-FW-V-024 : OAKDALE POWER PLANT FEEDWATER PUMP #4 DISCHARGE PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53525	0239-OAK-FW-V-025 : OAKDALE POWER PLANT FEEDWATER PUMP #4 DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53526	0239-OAK-FW-V-026 : OAKDALE POWER PLANT FEEDWATER PUMP #3 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53527	0239-OAK-FW-V-027 : OAKDALE POWER PLANT FEEDWATER PUMP #3 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53528	0239-OAK-FW-V-028 : OAKDALE POWER PLANT FEEDWATER PUMP #3 INLET PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53529	0239-OAK-FW-V-029 : OAKDALE POWER PLANT FEEDWATER PUMP #3 DISCHARGE MINIMUM FLOW OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53530	0239-OAK-FW-V-030 : OAKDALE POWER PLANT FEEDWATER FROM PUMP #3 SAMPLER COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53531	0239-OAK-FW-V-031 : OAKDALE POWER PLANT FEEDWATER PUMP #3 DISCHARGE PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53532	0239-OAK-FW-V-032 : OAKDALE POWER PLANT FEEDWATER PUMP #3 DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53533	0239-OAK-FW-V-033 : OAKDALE POWER PLANT FEEDWATER PUMP #1&2 MAIN HEADER INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53534	0239-OAK-FW-V-034 : OAKDALE POWER PLANT FEEDWATER SYSTEM PLUG	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53535	0239-OAK-FW-V-035 : OAKDALE POWER PLANT FEEDWATER PUMP #2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53536	0239-OAK-FW-V-036 : OAKDALE POWER PLANT FEEDWATER PUMP #2 INLET WYE STRAINER BLOWDOWN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53537	0239-OAK-FW-V-037 : OAKDALE POWER PLANT FEEDWATER PUMP #2 MINIMUM FLOW ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53538	0239-OAK-FW-V-038 : OAKDALE POWER PLANT FEEDWATER PUMP #2 DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53539	0239-OAK-FW-V-039 : OAKDALE POWER PLANT FEEDWATER FROM PUMP #2 SAMPLER COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53540	0239-OAK-FW-V-040 : OAKDALE POWER PLANT FEEDWATER PUMP #1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53541	0239-OAK-FW-V-041 : OAKDALE POWER PLANT FEEDWATER PUMP #1 INLET WYE STRAINER BLOWDOWN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53542	0239-OAK-FW-V-042 : OAKDALE POWER PLANT FEEDWATER PUMP #1 DISCHARGE MINIMUM FLOW ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53543	0239-OAK-FW-V-043 : OAKDALE POWER PLANT FEEDWATER PUMP #1 DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53544	0239-OAK-FW-V-044 : OAKDALE POWER PLANT FEEDWATER FROM PUMP #1 SAMPLER COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53545	0239-OAK-FW-V-045 : OAKDALE POWER PLANT FEEDWATER PUMPS #1&2 DISCHARGE OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53546	0239-OAK-FW-V-046 : OAKDALE POWER PLANT FEEDWATER PUMPS #1&2 DISCHARGE OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53547	0239-OAK-FW-V-047 : OAKDALE POWER PLANT FEEDWATER PUMPS #1&2 MINIMUM FLOW PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53548	0239-OAK-FW-V-048 : OAKDALE POWER PLANT FEEDWATER PUMPS #1&2 MINIMUM FLOW DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53549	0239-OAK-FW-V-049 : OAKDALE POWER PLANT FEEDWATER PUMP #1&2 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53550	0239-OAK-FW-V-050 : OAKDALE POWER PLANT FEEDWATER PUMP #1&2 BY-	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53551	0239-OAK-FW-V-051 : OAKDALE POWER PLANT CONDENSATE TO FEEDWATER PUMP SUCTION ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53552	0239-OAK-FW-V-052 : OAKDALE POWER PLANT FEEDWATER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53553	0239-OAK-FW-V-053 : OAKDALE POWER PLANT FEEDWATER SYSTEM SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53554	0239-OAK-FW-V-054 : OAKDALE POWER PLANT FEEDWATER DISCHARGE BY-PASS OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53555	0239-OAK-FW-V-055 : OAKDALE POWER PLANT FEEDWATER DISCHARGE DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53556	0239-OAK-FW-V-056 : OAKDALE POWER PLANT FEEDWATER PUMP #5 DISCAHRGE SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53557	0239-OAK-FW-V-057 : OAKDALE POWER PLANT FEEDWATER DISCHARGE DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53558	0239-OAK-FW-V-058 : OAKDALE POWER PLANT FEEDWATER PUMPS ALTERNATE MINIMUM FLOW TO CONDENSATE RETURN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53559	0239-OAK-FW-V-059 : OAKDALE POWER PLANT FEEDWATER PUMPS ALTERNATE MINIMUM FLOW TO CONDENSATE TANK ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53560	0239-OAK-FW-V-060 : OAKDALE POWER PLANT ALTERNATE MINIMUM FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53561	0239-OAK-FW-V-061 : OAKDALE POWER PLANT FEEDWATER PUMPS #1,2,3,4 DISCHARGE SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53562	0239-OAK-FW-V-062 : OAKDALE POWER PLANT BOILER FEEDWATER SUPPLY	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53563	0239-OAK-FW-V-063 : OAKDALE POWER PLANT BOILER #2 FEEDWATER SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53564	0239-OAK-FW-V-064 : OAKDALE POWER PLANT BOILER FEEDWATER SUPPLY HEADER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53565	0239-OAK-FW-V-065 : OAKDALE POWER PLANT BOILER #1 FEEDWATER SUPLPY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53566	0239-OAK-FW-V-066 : OAKDALE POWER PLANT BOILER FEEDWATER SUPPLY HEADER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53567	0239-OAK-FW-V-067 : OAKDALE POWER PLANT FEEDWATER BOILER #3 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53568	0239-OAK-FW-V-068 : OAKDALE POWER PLANT FEEDWATER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53569	0239-OAK-FW-V-069 : OAKDALE POWER PLANT CONTINUOUS BLOWDOWN CHEMICAL TANK OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53570	0239-OAK-FW-V-070 : OAKDALE POWER PLANT DEAERATOR FEEDWATER PRESSURE BY-PASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53571	0239-OAK-FW-V-071 : OAKDALE POWER PLANT DEAERATOR FEEDWATER PRESSURE BY-PASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53572	0239-OAK-FW-V-072 : OAKDALE POWER PLANT DEAERATOR FEEDWATER PRESSURE BY-PASS INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53573	0239-OAK-FW-V-073 : OAKDALE POWER PLANT BOILER #4 FEEDWATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53574	0239-OAK-FW-V-074 : OAKDALE POWER PLANT DA ALARM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53575	0239-OAK-FW-V-075 : OAKDALE POWER PLANT DA ALARM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53576	0239-OAK-FW-V-076 : OAKDALE POWER PLANT DA LEVEL SENSOR ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53577	0239-OAK-FW-V-077 : OAKDALE POWER PLANT DRAIN VALVE FOR DA LEVEL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53578	0239-OAK-FW-V-078 : OAKDALE POWER PLANT DA LEVEL SENSOR ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53579	0239-OAK-FW-V-079 : OAKDALE POWER PLANT LOW PRESSURE PRV OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53580	0239-OAK-FW-V-081 : OAKDALE POWER PLANT BOILER BLOWDOWN FLASH SEPERATOR OUTLET STEAM ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53581	0239-OAK-FW-V-082 : OAKDALE POWER PLANT DA LEVEL SENSOR ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53582	0239-OAK-FW-V-083 : OAKDALE POWER PLANT DA LEVEL SENSOR ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53583	0239-OAK-FW-V-084 : OAKDALE POWER PLANT DA SYSTEM SAMPLE COOLER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53584	0239-OAK-FW-V-085 : OAKDALE POWER PLANT DA SYSTEM SAMPLE COOLER INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53585	0239-OAK-FW-V-086 : OAKDALE POWER PLANT DA LEVEL SENSOR DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53586	0239-OAK-FW-V-087 : OAKDALE POWER PLANT DA ALARM VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53587	0239-OAK-FW-V-088 : OAKDALE POWER PLANT DA LEVEL SENSOR INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53588	0239-OAK-FW-V-089 : OAKDALE POWER PLANT DA LEVEL SENSOR DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53589	0239-OAK-FW-V-090 : OAKDALE POWER PLANT DA LEVEL SENSOR OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53590	0239-OAK-FW-V-091 : OAKDALE POWER PLANT DA ALARM VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53591	0239-OAK-FW-V-092 : OAKDALE POWER PLANT DA LEVEL SENSOR DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53592	0239-OAK-FW-V-093 : OAKDALE POWER PLANT CONDENSATE RETURN TO DA INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53593	0239-OAK-FW-V-094 : OAKDALE POWER PLANT PRESSURE CONDENSATE TO DA INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53594	0239-OAK-FW-V-095 : OAKDALE POWER PLANT CONDENSATE TO DA PLUG	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53595	0239-OAK-FW-V-096 : OAKDALE POWER PLANT MAKE-UP WATER TO DA BYPASS SHUT-OFF VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53596	0239-OAK-FW-V-097 : OAKDALE POWER PLANT MAKE-UP WATER TO DA BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53597	0239-OAK-FW-V-098 : OAKDALE POWER PLANT MAKE-UP WATER TO DA AOV ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53598	0239-OAK-FW-V-099 : OAKDALE POWER PLANT MAKE-UP WATER TO DA AOV ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53599	0239-OAK-FW-V-100 : OAKDALE POWER PLANT POLISHED CONDENSATE TO DA	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53600	0239-OAK-FW-V-101 : OAKDALE POWER PLANT POLISHED CONDENSATE TO DA CONTROL VALVE BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53601	0239-OAK-FW-V-102 : OAKDALE POWER PLANT POLISHED CONDENSATE TO DA CONTROL VALVE INLET ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53602	0239-OAK-FW-V-103 : OAKDALE POWER PLANT POLISHED CONDENSATE TO DA CONTROL VALVE OUTLET ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53603	0239-OAK-FW-V-104 : OAKDALE POWER PLANT DA VENT ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53604	0239-OAK-FW-V-105 : OAKDALE POWER PLANT DA VENT INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53605	0239-OAK-FW-V-106 : OAKDALE POWER PLANT DA VENT OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53606	0239-OAK-FW-V-107 : OAKDALE POWER PLANT DA PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53607	0239-OAK-FW-V-108 : OAKDALE POWER PLANT DEAERATOR SIGHT GLASS INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53608	0239-OAK-FW-V-109 : OAKDALE POWER PLANT DEAERATOR SIGHT GLASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53609	0239-OAK-FW-V-110 : OAKDALE POWER PLANT DEAERATOR SIGHT GLASS INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53610	0239-OAK-FW-V-111 : OAKDALE POWER PLANT DEAERATOR SIGHT GLASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53611	0239-OAK-FW-YS-001 : OAKDALE POWER PLANT FEEDWATER PUMP #1 INLET WYE PATTERN STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53612	0239-OAK-FW-YS-002 : OAKDALE POWER PLANT FEEDWATER PUMP #2 INLET WYE PATTERN STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53613	0239-OAK-FW-YS-003 : OAKDALE POWER PLANT FEEDWATER PUMP #3 INLET WYE PATTERN STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53614	0239-OAK-FW-YS-004 : OAKDALE POWER PLANT FEEDWATER PUMP #4 INLET WYE PATTERN STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53615	0239-OAK-FW-YS-005 : OAKDALE POWER PLANT FEEDWATER PUMP #5 INLET WYE PATTERN STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53616	0239-OAK-HWS-AOV-001 : OAKDALE POWER PLANT HOT WATER AOV	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53617	0239-OAK-HWS-AOV-002 : OAKDALE POWER PLANT HOT WATER PUMP 3A/B	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53618	0239-OAK-HWS-CHK-001A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53619	0239-OAK-HWS-CHK-001B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53620	0239-OAK-HWS-CHK-002A : OAKDALE POWER PLANT HOT WATER PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53621	0239-OAK-HWS-CHK-002B : OAKDALE POWER PLANT HOT WATER PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53622	0239-OAK-HWS-CHK-003A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53623	0239-OAK-HWS-CHK-003B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53624	0239-OAK-HWS-CHK-004 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53625	0239-OAK-HWS-FIL-001 : OAKDALE POWER PLANT HOT WATER FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53626	0239-OAK-HWS-HX-001A : OAKDALE POWER PLANT GLYCOL ENGINE 1 HX	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53627	0239-OAK-HWS-HX-001B : OAKDALE POWER PLANT GLYCOL ENGINE 2 HX	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53628	0239-OAK-HWS-HX-002A : OAKDALE POWER PLANT ENGINE 1 EXHAUST HX	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53629	0239-OAK-HWS-HX-002B : OAKDALE POWER PLANT ENGINE 2 EXHAUST HX	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53630	0239-OAK-HWS-HX-003 : OAKDALE POWER PLANT STEAM TO CONDENSATE HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53631	0239-OAK-HWS-LS-001 : OAKDALE POWER PLANT HOT WATER SYSTEM TANK LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53632	0239-OAK-HWS-P-CNT-001A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53633	0239-OAK-HWS-P-CNT-001B : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53634	0239-OAK-HWS-P-CNT-002A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HEAT EXCHANGER PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53635	0239-OAK-HWS-P-CNT-002B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HEAT EXCHANGER PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53636	0239-OAK-HWS-P-CNT-003A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53637	0239-OAK-HWS-P-CNT-003B : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53638	0239-OAK-HWS-P-DIA-001 : OAKDALE POWER PLANT HWS TANK 3 OUTLET	SERIALIZED	PUMP DIAPHRAGM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53639	0239-OAK-HWS-PG-001 : OAKDALE POWER PLANT HWS RETURN PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53640	0239-OAK-HWS-PG-002 : OAKDALE POWER PLANT HWS FILTER 1 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53641	0239-OAK-HWS-PG-003A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53642	0239-OAK-HWS-PG-003B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53643	0239-OAK-HWS-PG-004A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53644	0239-OAK-HWS-PG-004B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53645	0239-OAK-HWS-PG-005A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53646	0239-OAK-HWS-PG-005B : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53647	0239-OAK-HWS-PG-006A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53648	0239-OAK-HWS-PG-006B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53649	0239-OAK-HWS-PG-007 : OAKDALE POWER PLANT HOT WATER SUPPLY TO PUMPS PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53650	0239-OAK-HWS-PG-008 : OAKDALE POWER PLANT HOT WATER SUPPLY TO PUMPS PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53651	0239-OAK-HWS-PG-009A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53652	0239-OAK-HWS-PG-009B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53653	0239-OAK-HWS-PG-010 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53654	0239-OAK-HWS-PG-011 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53655	0239-OAK-HWS-PT-001 : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53656	0239-OAK-HWS-PT-002 : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53657	0239-OAK-HWS-PT-003A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53658	0239-OAK-HWS-PT-003B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53659	0239-OAK-HWS-PT-004A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53660	0239-OAK-HWS-PT-004B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53661	0239-OAK-HWS-PT-005A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53662	0239-OAK-HWS-PT-005B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53663	0239-OAK-HWS-PT-006 : OAKDALE POWER PLANT HOT WATER RETURN PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53664	0239-OAK-HWS-REG-001 : OAKDALE POWER PLANT HWS TANK 1 OUTLET	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53665	0239-OAK-HWS-RV-001A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53666	0239-OAK-HWS-RV-001B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53667	0239-OAK-HWS-RV-002A : OAKDALE POWER PLANT HOT WATER SYSTEM HEAT EXCHANGER RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53668	0239-OAK-HWS-RV-002B : OAKDALE POWER PLANT HOT WATER SYSTEM HEAT EXCHANGER RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53669	0239-OAK-HWS-RV-003 : OAKDALE POWER PLANT HOT WATER SUPPLY HX INLET ISOLATION VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53670	0239-OAK-HWS-RV-004 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53671	0239-OAK-HWS-TG-001 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53672	0239-OAK-HWS-TG-002A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53673	0239-OAK-HWS-TG-002B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53674	0239-OAK-HWS-TG-003A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53675	0239-OAK-HWS-TG-003B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53676	0239-OAK-HWS-TG-004A : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53677	0239-OAK-HWS-TG-004B : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53678	0239-OAK-HWS-TG-005 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53679	0239-OAK-HWS-TG-006 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53680	0239-OAK-HWS-TG-007 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53681	0239-OAK-HWS-TG-008 : OAKDALE POWER PLANT HOT WATER RETURN TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53682	0239-OAK-HWS-TG-009 : OAKDALE POWER PLANT HOT WATER RETURN TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53683	0239-OAK-HWS-TNK-001 : OAKDALE POWER PLANT HOT WATER TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53684	0239-OAK-HWS-TNK-002 : OAKDALE POWER PLANT HOT WATER TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53685	0239-OAK-HWS-TNK-003 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53686	0239-OAK-HWS-TNK-004 : OAKDALE POWER PLANT HOT WATER TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53687	0239-OAK-HWS-TT-001 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53688	0239-OAK-HWS-TT-002A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53689	0239-OAK-HWS-TT-002B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53690	0239-OAK-HWS-TT-003A : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53691	0239-OAK-HWS-TT-003B : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53692	0239-OAK-HWS-TT-004 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53693	0239-OAK-HWS-TT-005 : OAKDALE POWER PLANT HOT WATER SUPPLY TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53694	0239-OAK-HWS-TT-006 : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET TEMPERATURE GAUGE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53695	0239-OAK-HWS-TT-007 : OAKDALE POWER PLANT HOT WATER RETURN TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53696	0239-OAK-HWS-V-001 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53697	0239-OAK-HWS-V-002 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53698	0239-OAK-HWS-V-003 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53699	0239-OAK-HWS-V-004 : OAKDALE POWER PLANT HOT WATER SUPPLY REG 1 OUTLET ISO VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53700	0239-OAK-HWS-V-005 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 1 DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53701	0239-OAK-HWS-V-006A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53702	0239-OAK-HWS-V-006B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53703	0239-OAK-HWS-V-007A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53704	0239-OAK-HWS-V-007B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53705	0239-OAK-HWS-V-008A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53706	0239-OAK-HWS-V-008B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53707	0239-OAK-HWS-V-009 : OAKDALE POWER PLANT HOT WATER TANK 2	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53708	0239-OAK-HWS-V-010 : OAKDALE POWER PLANT HOT WATER TANK 2	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53709	0239-OAK-HWS-V-011 : OAKDALE POWER PLANT HOT WATER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53710	0239-OAK-HWS-V-012 : OAKDALE POWER PLANT HOT WATER PT 1	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53711	0239-OAK-HWS-V-013 : OAKDALE POWER PLANT HOT WATER SUPPLY PT 2 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53712	0239-OAK-HWS-V-014 : OAKDALE POWER PLANT HOT WATER SUPPLY PT 2	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53715	0239-OAK-HWS-V-015 : OAKDALE POWER PLANT HOT WATER RETURN PT	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53716	0239-OAK-HWS-V-016 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53717	0239-OAK-HWS-V-017 : OAKDALE POWER PLANT HOT WATER PG 1	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53718	0239-OAK-HWS-V-018 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53719	0239-OAK-HWS-V-019 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53720	0239-OAK-HWS-V-020 : OAKDALE POWER PLANT HOT WATER PG 2	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53721	0239-OAK-HWS-V-021 : OAKDALE POWER PLANT HOT WATER FIL 1 DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53722	0239-OAK-HWS-V-022 : OAKDALE POWER PLANT HOT WATER FIL 1 DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53723	0239-OAK-HWS-V-023 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53724	0239-OAK-HWS-V-026A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53725	0239-OAK-HWS-V-026B : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53726	0239-OAK-HWS-V-027A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53727	0239-OAK-HWS-V-027B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53728	0239-OAK-HWS-V-028A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53729	0239-OAK-HWS-V-028B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53730	0239-OAK-HWS-V-029A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53731	0239-OAK-HWS-V-029B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53732	0239-OAK-HWS-V-030A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53733	0239-OAK-HWS-V-030B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53734	0239-OAK-HWS-V-031A : OAKDALE POWER PLANT HOT WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53735	0239-OAK-HWS-V-031B : OAKDALE POWER PLANT HOT WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53736	0239-OAK-HWS-V-032A : OAKDALE POWER PLANT HOT WATER SYSTEM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53737	0239-OAK-HWS-V-032B : OAKDALE POWER PLANT HOT WATER SYSTEM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53738	0239-OAK-HWS-V-033A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53739	0239-OAK-HWS-V-034A : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53740	0239-OAK-HWS-V-035A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53741	0239-OAK-HWS-V-035B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53742	0239-OAK-HWS-V-036A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53743	0239-OAK-HWS-V-036B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53744	0239-OAK-HWS-V-037A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53745	0239-OAK-HWS-V-037B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53746	0239-OAK-HWS-V-038A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53747	0239-OAK-HWS-V-038B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53748	0239-OAK-HWS-V-039B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53749	0239-OAK-HWS-V-040A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53750	0239-OAK-HWS-V-040B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53751	0239-OAK-HWS-V-041A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53752	0239-OAK-HWS-V-041B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53753	0239-OAK-HWS-V-042A : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53754	0239-OAK-HWS-V-042B : OAKDALE POWER PLANT HOT WATER SUPPLY TO HX INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53755	0239-OAK-HWS-V-043A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53756	0239-OAK-HWS-V-043B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53757	0239-OAK-HWS-V-044A : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53758	0239-OAK-HWS-V-044B : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53759	0239-OAK-HWS-V-045A : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53760	0239-OAK-HWS-V-045B : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53761	0239-OAK-HWS-V-046B : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53762	0239-OAK-HWS-V-047A : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53763	0239-OAK-HWS-V-047B : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53764	0239-OAK-HWS-V-048A : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53765	0239-OAK-HWS-V-048B : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53766	0239-OAK-HWS-V-051 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53767	0239-OAK-HWS-V-052 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK TO MAIN LINE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53768	0239-OAK-HWS-V-053 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53769	0239-OAK-HWS-V-054 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53770	0239-OAK-HWS-V-055 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 INLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53771	0239-OAK-HWS-V-056 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53772	0239-OAK-HWS-V-057 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53773	0239-OAK-HWS-V-058 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53774	0239-OAK-HWS-V-059 : OAKDALE POWER PLANT HOT WATER PUMP SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53775	0239-OAK-HWS-V-060 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53776	0239-OAK-HWS-V-061 : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53777	0239-OAK-HWS-V-062A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53778	0239-OAK-HWS-V-062B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53779	0239-OAK-HWS-V-063A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53780	0239-OAK-HWS-V-063B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53781	0239-OAK-HWS-V-064A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53782	0239-OAK-HWS-V-064B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53783	0239-OAK-HWS-V-065A : OAKDALE POWER PLANT HOT WATER SUPPLY TANK 4 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53784	0239-OAK-HWS-V-065B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP 3B OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53785	0239-OAK-HWS-V-066A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53786	0239-OAK-HWS-V-066B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53787	0239-OAK-HWS-V-067A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53788	0239-OAK-HWS-V-067B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53789	0239-OAK-HWS-V-068A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53790	0239-OAK-HWS-V-068B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53791	0239-OAK-HWS-V-069A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53792	0239-OAK-HWS-V-069B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53793	0239-OAK-HWS-V-070A : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53794	0239-OAK-HWS-V-070B : OAKDALE POWER PLANT HOT WATER SUPPLY PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53795	0239-OAK-HWS-V-071A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET TO MAIN LINE ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53796	0239-OAK-HWS-V-071B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP OUTLET TO MAIN LINE ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53797	0239-OAK-HWS-V-073 : OAKDALE POWER PLANT HOT WATER SUPPLY HX INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53798	0239-OAK-HWS-V-074 : OAKDALE POWER PLANT HOT WATER SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53799	0239-OAK-HWS-V-075 : OAKDALE POWER PLANT HOT WATER RETURN HX OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53800	0239-OAK-HWS-V-076 : OAKDALE POWER PLANT HOT WATER RETURN INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53801	0239-OAK-HWS-V-077 : OAKDALE POWER PLANT HOT WATER PG 10	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53802	0239-OAK-HWS-V-078 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53803	0239-OAK-HWS-V-079 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53804	0239-OAK-HWS-V-080 : OAKDALE POWER PLANT HOT WATER PG 11	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53805	0239-OAK-HWS-V-081 : OAKDALE POWER PLANT HOT WATER RETURN PT 2 INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53806	0239-OAK-HWS-V-082 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53807	0239-OAK-HWS-V-083 : OAKDALE POWER PLANT HOT WATER PT 6	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53808	0239-OAK-HWS-V-084 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53809	0239-OAK-HWS-V-085 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53810	0239-OAK-HWS-V-086 : OAKDALE POWER PLANT HOT WATER RETURN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53811	0239-OAK-HWS-YS-001A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53812	0239-OAK-HWS-YS-001B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53813	0239-OAK-HWS-YS-002 : OAKDALE POWER PLANT HOT WATER SUPPLY TANK OUTLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53814	0239-OAK-HWS-YS-003A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53815	0239-OAK-HWS-YS-003B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53816	0239-OAK-HWS-YS-004A : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53817	0239-OAK-HWS-YS-004B : OAKDALE POWER PLANT HOT WATER SUPPLY PUMP INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53982	0239-OAK-FW-REG-001 : OAKDALE POWER PLANT DA MAKE UP SYSTEM	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53983	0239-OAK-FW-REG-002 : OAKDALE POWER PLANT DA CONDENSATE	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53984	0239-OAK-MUS-TNK-1A : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53985	0239-OAK-MUS-TNK-1B : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53986	0239-OAK-MUS-TNK-1C : OAKDALE POWER PLANT MAKE-UP WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53987	0239-OAK-BLR2-AOV-001 : OAKDALE POWER PLANT BOILER #2 FEEDWATER REGULATING VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53988	0239-OAK-BLR2-BLR-001 : OAKDALE POWER PLANT OAKDALE GAS BOILER	SERIALIZED	BOILER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
53989	0239-OAK-BLR2-CND-002A : OAKDALE POWER PLANT VARIABLE LEG IN	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53990	0239-OAK-BLR2-CND-002B : OAKDALE POWER PLANT REFERENCE LEG (STEAM)	SERIALIZED	CONDUCTIVITY CELL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53991	0239-OAK-BLR2-CHK-001 : OAKDALE POWER PLANT BOILER #2 FEEDWATER INLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53992	0239-OAK-BLR2-CHK-002 : OAKDALE POWER PLANT BOILER #2 RELIEF VALVE DISCHARGE DRIP PAN DRAIN CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53993	0239-OAK-BLR2-CHK-003 : OAKDALE POWER PLANT BOILER #2 STEAM LINE DRAIN TRAP CONDENSATE OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53994	0239-OAK-BLR2-CU-001 : OAKDALE POWER PLANT BOILER #2 I/P CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53995	0239-OAK-BLR2-CU-002 : OAKDALE POWER PLANT BOILER #2 CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53996	0239-OAK-BLR2-CV-100 : OAKDALE POWER PLANT BOILER #2 MAIN GAS SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53997	0239-OAK-BLR2-DMP-001 : OAKDALE POWER PLANT BOILER #2 GAS BURNER	SERIALIZED	DAMPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53998	0239-OAK-BLR2-FAN-001 : OAKDALE POWER PLANT BOILER #2 FORCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
53999	0239-OAK-BLR2-FAN-002 : OAKDALE POWER PLANT BOILER #2 INDUCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54000	0239-OAK-BLR2-FLT-001 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54001	0239-OAK-BLR2-FLT-002 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54002	0239-OAK-BLR2-FO-001 : OAKDALE POWER PLANT BOILER #2 FEEDWATER	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54003	0239-OAK-BLR2-FO-002 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54005	0239-OAK-BLR2-LS-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM FLOAT LOW LEVEL SWITCH	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54006	0239-OAK-BLR2-LS-002 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PROBE LOW LEVEL SWITCH	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54007	0239-OAK-BLR2-LT-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM LEVEL INDICATING TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54008	0239-OAK-BLR2-MOV-100 : OAKDALE POWER PLANT BOILER #2 FIRST MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54009	0239-OAK-BLR2-MOV-101 : OAKDALE POWER PLANT BOILER #2 SECOND MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54010	0239-OAK-BLR2-MTR-001 : OAKDALE POWER PLANT BOILER #2 EXHAUST MODULATING MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54011	0239-OAK-BLR2-MTR-100 : OAKDALE POWER PLANT BOILER #2 MAIN GAS SUPPLY MODULATING MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54012	0239-OAK-BLR2-P-CNT-001 : OAKDALE POWER PLANT BOILER #2 LAYUP CHEMICAL RECIRCULATION PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54013	0239-OAK-BLR2-PG-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54014	0239-OAK-BLR2-PG-002 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54015	0239-OAK-BLR2-PG-003 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54016	0239-OAK-BLR2-PG-004 : OAKDALE POWER PLANT BOILER #2 GAS BURNER PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54017	0239-OAK-BLR2-PG-100 : OAKDALE POWER PLANT BOILER #2 GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54018	0239-OAK-BLR2-PG-101 : OAKDALE POWER PLANT BOILER #2 GAS	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54019	0239-OAK-BLR2-PS-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM HIGH PRESSURE TRIP (AUTO RESET)	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54020	0239-OAK-BLR2-PS-002 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM HIGH PRESSURE TRIP (MANUAL RESET)	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54021	0239-OAK-BLR2-PS-003 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54022	0239-OAK-BLR2-PS-004 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54023	0239-OAK-BLR2-PS-005 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54024	0239-OAK-BLR2-PS-100 : OAKDALE POWER PLANT BOILER #2 GAS BURNER GAS PRESSURE LOW PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54025	0239-OAK-BLR2-PS-101 : OAKDALE POWER PLANT BOILER #2 GAS BURNER GAS PRESSURE HIGH PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54026	0239-OAK-BLR2-PT-001 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54027	0239-OAK-BLR2-PT-002 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54028	0239-OAK-BLR2-PT-003 : OAKDALE POWER PLANT BOILER #2 PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54029	0239-OAK-BLR2-RV-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM SAFETY RELIEF VALVE (160 PSIG)	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54030	0239-OAK-BLR2-RV-002 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM SAFETY RELIEF VALVE (150 PSIG)	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54031	0239-OAK-BLR2-RV-100 : OAKDALE POWER PLANT BOILER #2 GAS SUPPLY	SERIALIZED	VALVE SAFETY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54032	0239-OAK-BLR2-SB-001 : OAKDALE POWER PLANT BOILER #2 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54033	0239-OAK-BLR2-SB-002 : OAKDALE POWER PLANT BOILER #2 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54034	0239-OAK-BLR2-SB-003 : OAKDALE POWER PLANT BOILER #2 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54035	0239-OAK-BLR2-SG-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM LEVEL SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54036	0239-OAK-BLR2-SOV-101 : OAKDALE POWER PLANT BOILER #2 PILOT GAS ISOLATION SOLENOID VALVE #1	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54037	0239-OAK-BLR2-SOV-102 : OAKDALE POWER PLANT BOILER #2 PILOT GAS ISOLATION SOLENOID VALVE #2	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54038	0239-OAK-BLR2-SOV-103 : OAKDALE POWER PLANT BOILER #2 PILOT GAS VENT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54039	0239-OAK-BLR2-TG-001 : OAKDALE POWER PLANT BOILER #2 FEEDWATER TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54040	0239-OAK-BLR2-TRAP-003 : OAKDALE POWER PLANT BOILER #2 STEAM	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54041	0239-OAK-BLR2-V-001 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54042	0239-OAK-BLR2-V-002 : OAKDALE POWER PLANT BOILER #2 FEEDWATER INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54043	0239-OAK-BLR2-V-003 : OAKDALE POWER PLANT BOILER #2 FEEDWATER AOV OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54044	0239-OAK-BLR2-V-004 : OAKDALE POWER PLANT BOILER #2 FEEDWATER AOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54045	0239-OAK-BLR2-V-005 : OAKDALE POWER PLANT BOILER #2 FEEDWATER AOV INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54046	0239-OAK-BLR2-V-006 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER HIGH PRESSURE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54047	0239-OAK-BLR2-V-007 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER LOW PRESSURE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54048	0239-OAK-BLR2-V-008 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER HIGH PRESSURE TAP BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54049	0239-OAK-BLR2-V-009 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER LOW PRESSURE TAP BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54050	0239-OAK-BLR2-V-010 : OAKDALE POWER PLANT BOILER #2 FEEDWATER FLOW TRANSMITTER INSTRUMENT	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54051	0239-OAK-BLR2-V-011 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM TOP VENT THROTTLE VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54052	0239-OAK-BLR2-V-012 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM NON RETURN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54053	0239-OAK-BLR2-V-013 : OAKDALE POWER PLANT BOILER #2 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54054	0239-OAK-BLR2-V-014 : OAKDALE POWER PLANT BOILER #2 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54055	0239-OAK-BLR2-V-015 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET TRAPPING STATION INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54056	0239-OAK-BLR2-V-016 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET DRAIN TRAP INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54057	0239-OAK-BLR2-V-017 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET DRAIN TRAP STATION BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54058	0239-OAK-BLR2-V-018 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET DRAIN TRAP OUTLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54059	0239-OAK-BLR2-V-019 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET DRAIN TRAP DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54060	0239-OAK-BLR2-V-020 : OAKDALE POWER PLANT BOILER #2 STEAM OUTLET STEAM TRAPPING STATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54061	0239-OAK-BLR2-V-021 : OAKDALE POWER PLANT CONDENSATE DRAIN CONNECTION FROM OLD BOILER 1 STEAM OUTLET DRAIN TRAP	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54062	0239-OAK-BLR2-V-022 : OAKDALE POWER PLANT BOILER #2 MEDIUM PRESSURE STEAM VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54063	0239-OAK-BLR2-V-023 : OAKDALE POWER PLANT BOILER #2 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54064	0239-OAK-BLR2-V-024 : OAKDALE POWER PLANT BOILER #2 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54065	0239-OAK-BLR2-V-025 : OAKDALE POWER PLANT BOILER #2 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54066	0239-OAK-BLR2-V-026 : OAKDALE POWER PLANT BOILER #2 SECOND HEADER ISOLATION VALVE BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54067	0239-OAK-BLR2-V-027 : OAKDALE POWER PLANT BOILER #2 SECOND HEADER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54068	0239-OAK-BLR2-V-028 : OAKDALE POWER PLANT BOILER #2 SECOND HEADER ISOLATION VALVE BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54069	0239-OAK-BLR2-V-029 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW ORIFICE HIGH PRESSURE TAP ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54070	0239-OAK-BLR2-V-031 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW ORIFICE HIGH PRESSURE DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54071	0239-OAK-BLR2-V-032 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW TRANSMITTER HIGH PRESSURE TAP	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54072	0239-OAK-BLR2-V-033 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW TRANSMITTER HIGH PRESSURE DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54073	0239-OAK-BLR2-V-034 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW TRANSMITTER LOW PRESSURE DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54074	0239-OAK-BLR2-V-035 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW TRANSMITTER LOW PRESSURE TAP	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54075	0239-OAK-BLR2-V-036 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW ORIFICE LOW PRESSURE DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54076	0239-OAK-BLR2-V-038 : OAKDALE POWER PLANT BOILER #2 STEAM FLOW ORIFICE LOW PRESSURE TAP ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54077	0239-OAK-BLR2-V-039 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54078	0239-OAK-BLR2-V-040 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54079	0239-OAK-BLR2-V-041 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54080	0239-OAK-BLR2-V-042 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM CONTINUOUS BLOWDOWN LINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54081	0239-OAK-BLR2-V-043 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM CONTINUOUS BLOWDOWN LINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54082	0239-OAK-BLR2-V-044 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM CONTINUOUS BLOWDOWN DRAIN LINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54083	0239-OAK-BLR2-V-045 : OAKDALE POWER PLANT BOILER #2 SOOT BLOWING STEAM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54084	0239-OAK-BLR2-V-046 : OAKDALE POWER PLANT BOILER #2 SOOT BLOWING STEAM SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54085	0239-OAK-BLR2-V-047 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM CONTINUOUS BLOWDOWN ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54086	0239-OAK-BLR2-V-048 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54087	0239-OAK-BLR2-V-049 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENTS ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54088	0239-OAK-BLR2-V-050 : OAKDALE POWER PLANT BOILER #2 SOOTBLOWING STEAM SUPPLY DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54089	0239-OAK-BLR2-V-051 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM LEVEL TRANSMITTER REFERENCE LEG ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54090	0239-OAK-BLR2-V-052 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM LEVEL TRANSMITTER VARIABLE LEG	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54091	0239-OAK-BLR2-V-054 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54092	0239-OAK-BLR2-V-055 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM WATER COLUMN SIGHT GLASS DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54093	0239-OAK-BLR2-V-056 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM LEVEL TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54094	0239-OAK-BLR2-V-057 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM FLOAT LEVEL SWITCH DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54095	0239-OAK-BLR2-V-058 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM FLOAT LEVEL SWITCH DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54096	0239-OAK-BLR2-V-059 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54097	0239-OAK-BLR2-V-060 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM WATER COLUMN SIGHT GLASS DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54098	0239-OAK-BLR2-V-061 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM WATER COLUMN SIGHT GLASS DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54099	0239-OAK-BLR2-V-066 : OAKDALE POWER PLANT BOILER #2 MUD DRUM BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54100	0239-OAK-BLR2-V-067 : OAKDALE POWER PLANT BOILER #2 MUD DRUM BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54101	0239-OAK-BLR2-V-068 : OAKDALE POWER PLANT BOILER #2 NORTH MUD HEADER BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54102	0239-OAK-BLR2-V-069 : OAKDALE POWER PLANT BOILER #2 NORTH MUD HEADER BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54103	0239-OAK-BLR2-V-070 : OAKDALE POWER PLANT BOILER #2 SOUTH MUD HEADER BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54104	0239-OAK-BLR2-V-071 : OAKDALE POWER PLANT BOILER #2 SOUTH MUD HEADER BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54105	0239-OAK-BLR2-V-072 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54106	0239-OAK-BLR2-V-073 : OAKDALE POWER PLANT BOILER #2 CHEMICAL LAYUP RECIRCULATION PUMP SUCTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54107	0239-OAK-BLR2-V-074 : OAKDALE POWER PLANT BOILER #2 CHEMICAL LAYUP RECIRCULATION PUMP DISCHARGE VENT VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54108	0239-OAK-BLR2-V-075 : OAKDALE POWER PLANT BOILER #2 CHEMICAL LAYUP RECIRCULATION PUMP DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54109	0239-OAK-BLR2-V-076 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENT HEADER DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54110	0239-OAK-BLR2-V-077 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENT RACK DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54111	0239-OAK-BLR2-V-078 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENTS RACK DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54112	0239-OAK-BLR2-V-079 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENT RACK	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54113	0239-OAK-BLR2-V-080 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENT RACK	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54114	0239-OAK-BLR2-V-081 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54115	0239-OAK-BLR2-V-082 : OAKDALE POWER PLANT BOILER #2 PRESSURE INSTRUMENT ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54116	0239-OAK-BLR2-V-083 : OAKDALE POWER PLANT BOILER #2 EXHAUST	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54117	0239-OAK-BLR2-V-084 : OAKDALE POWER PLANT BOILER #2 INDUCED DRAFT FAN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54118	0239-OAK-BLR2-V-085 : OAKDALE POWER PLANT BOILER #2 MODULATING MOTOR TO I.D. FAN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54119	0239-OAK-BLR2-V-086 : OAKDALE POWER PLANT BOILER #2 INDUCED DRAFT FAN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54120	0239-OAK-BLR2-V-087 : OAKDALE POWER PLANT BOILER #2 F.D. FAN TO BURNER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54121	0239-OAK-BLR2-V-088 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENTS RACK DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54122	0239-OAK-BLR2-V-089 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE INSTRUMENTS RACK DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54123	0239-OAK-BLR2-V-090 : OAKDALE POWER PLANT BOILER #2 STEAM DRUM PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54124	0239-OAK-BLR2-V-091 : OAKDALE POWER PLANT BOILER #2 STEAM HEADER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54125	0239-OAK-BLR2-V-100 : OAKDALE POWER PLANT BOILER #2 MAIN GAS SUPPLY PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54126	0239-OAK-BLR2-V-101 : OAKDALE POWER PLANT BOILER #2 GAS TRAIN REGULATOR INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54127	0239-OAK-BLR2-V-102 : OAKDALE POWER PLANT BOILER #2 GAS BURNER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54128	0239-OAK-BLR2-V-103 : OAKDALE POWER PLANT BOILER #2 PILOT GAS TO GAS TRAIN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54129	0239-OAK-BLR2-V-104 : OAKDALE POWER PLANT BOILER #2 PILOT GAS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54130	0239-OAK-BLR2-YS-100 : OAKDALE POWER PLANT BOILER #2 PILOT GAS TO BURNER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54131	0239-OAK-BLR3-AOV-001: OAKDALE POWER PLANT BOILER #3 FEEDWATER REGULATING VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54132	0239-OAK-BLR3-BLR-001: OAKDALE POWER PLANT OAKDALE GAS BOILER	SERIALIZED	BOILER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54133	0239-OAK-BLR3-CHK-001: OAKDALE POWER PLANT BOILER #3 FEEDWATER INLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54134	0239-OAK-BLR3-CHK-002: OAKDALE POWER PLANT BOILER #3 STEAM DRUM RELIEF VALVES DISCHARGE DRIP PAN	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54135	0239-OAK-BLR3-CHK-003: OAKDALE POWER PLANT BOILER #3 STEAMLINE DRAIN TRAP CONDENSATE OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54136	0239-OAK-BLR3-CU-001: OAKDALE POWER PLANT BOILER #3 STEAM PRESSURE CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54137	0239-OAK-BLR3-CU-002: OAKDALE POWER PLANT BOILER #3 CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54138	0239-OAK-BLR3-CV-100: OAKDALE POWER PLANT BOILER #3 MAIN GAS SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54139	0239-OAK-BLR3-FAN-001: OAKDALE POWER PLANT BOILER #3 FORCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54140	0239-OAK-BLR3-FAN-002: OAKDALE POWER PLANT BOILER #3 INDUCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54141	0239-OAK-BLR3-FLT-001: OAKDALE POWER PLANT BOILER #3 FEEDWATER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54142	0239-OAK-BLR3-FLT-002: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54143	0239-OAK-BLR3-FO-001: OAKDALE POWER PLANT BOILER #3 FEEDWATER	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54144	0239-OAK-BLR3-FO-002: OAKDALE POWER PLANT BOILER #3 STEAM FLOW	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54145	0239-OAK-BLR3-LS-001: OAKDALE POWER PLANT BOILER #3 FLOAT LOW	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54146	0239-OAK-BLR3-LS-002: OAKDALE POWER PLANT BOILER #3 PROBE LOW	SERIALIZED	SWITCH LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54147	0239-OAK-BLR3-LT-001: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54148	0239-OAK-BLR3-MOV-100: OAKDALE POWER PLANT BOILER #3 FIRST MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54149	0239-OAK-BLR3-MOV-101: OAKDALE POWER PLANT BOILER #3 SECOND MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54150	0239-OAK-BLR3-MTR-001: OAKDALE POWER PLANT BOILER #3 EXHAUST MODULATING MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54151	0239-OAK-BLR3-MTR-100: OAKDALE POWER PLANT BOILER #3 MAIN GAS SUPPLY MODULATING MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54152	0239-OAK-BLR3-P-CNT-001: OAKDALE POWER PLANT BOILER #3 CHEMICAL RECIRCULATION LAYUP CHEMICAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54153	0239-OAK-BLR3-PG-001: OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54154	0239-OAK-BLR3-PG-004: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54155	0239-OAK-BLR3-PG-100: OAKDALE POWER PLANT BOILER #3 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54156	0239-OAK-BLR3-PG-101: OAKDALE POWER PLANT BOILER #3 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54157	0239-OAK-BLR3-PG-102: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54158	0239-OAK-BLR3-PG-103: OAKDALE POWER PLANT BOILER #3 GAS BURNER	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54159	0239-OAK-BLR3-PS-001: OAKDALE POWER PLANT BOILER #3 STEAM DRUM HIGH PRESSURE TRIP (AUTO RESET)	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54160	0239-OAK-BLR3-PS-002: OAKDALE POWER PLANT BOILER #3 STEAM DRUM HIGH PRESSURE TRIP (MANUAL RESET)	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54161	0239-OAK-BLR3-PS-003: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54162	0239-OAK-BLR3-PS-004: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54163	0239-OAK-BLR3-PS-005: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54164	0239-OAK-BLR3-PS-100: OAKDALE POWER PLANT BOILER #3 GAS SUPPLY GAS PRESSURE LOW PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54165	0239-OAK-BLR3-PS-101: OAKDALE POWER PLANT BOILER #3 GAS BURNER GAS PRESSURE HIGH PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54166	0239-OAK-BLR3-PT-001: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54167	0239-OAK-BLR3-PT-002: OAKDALE POWER PLANT BOILER #3 PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54168	0239-OAK-BLR3-RV-003A: OAKDALE POWER PLANT BOILER #3 STEAM DRUM SAFETY RELIEF VALVE (150 PSIG)	SERIALIZED	VALVE SAFETY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54169	0239-OAK-BLR3-RV-003B: OAKDALE POWER PLANT BOILER #3 STEAM DRUM SAFETY RELIEF VALVE (160 PSIG)	SERIALIZED	VALVE SAFETY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54170	0239-OAK-BLR3-RV-100: OAKDALE POWER PLANT BOILER #3 GAS FUEL SAFETY RELIEF VALVE	SERIALIZED	VALVE SAFETY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54171	0239-OAK-BLR3-SB-001: OAKDALE POWER PLANT BOILER #3 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54172	0239-OAK-BLR3-SB-002: OAKDALE POWER PLANT BOILER #3 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54173	0239-OAK-BLR3-SB-003: OAKDALE POWER PLANT BOILER #3 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54174	0239-OAK-BLR3-SG-001: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54175	0239-OAK-BLR3-SOV-100: OAKDALE POWER PLANT BOILER #3 PILOT GAS ISOLATION SOLENOID VALVE #1	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54176	0239-OAK-BLR3-SOV-101: OAKDALE POWER PLANT BOILER #3 PILOT GAS ISOLATION SOLENOID VALVE #2	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54177	0239-OAK-BLR3-SOV-102: OAKDALE POWER PLANT BOILER #3 PILOT GAS VENT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54178	0239-OAK-BLR3-SOV-103: OAKDALE POWER PLANT BOILER #3 PILOT GAS VENT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54179	0239-OAK-BLR3-TG-001: OAKDALE POWER PLANT BOILER #3 FEEDWATER TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54180	0239-OAK-BLR3-TRAP-001: OAKDALE POWER PLANT BOILER #3 STEAM	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54181	0239-OAK-BLR3-V-001: OAKDALE POWER PLANT BOILER #3 DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54182	0239-OAK-BLR3-V-002: OAKDALE POWER PLANT BOILER #3 FEEDWATER INLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54183	0239-OAK-BLR3-V-003: OAKDALE POWER PLANT BOILER #3 FEEDWATER AOV OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54184	0239-OAK-BLR3-V-004: OAKDALE POWER PLANT BOILER #3 FEEDWATER AOV BYPASS VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54185	0239-OAK-BLR3-V-005: OAKDALE POWER PLANT BOILER #3 FEEDWATER VALVE AOV INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54186	0239-OAK-BLR3-V-006: OAKDALE POWER PLANT BOILER #3 FEEDWATER SYSTEM FLOW TRANSMITTER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54187	0239-OAK-BLR3-V-007: OAKDALE POWER PLANT BOILER #3 FEEDWATER SYSTEM FLOW TRANSMITTER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54188	0239-OAK-BLR3-V-008: OAKDALE POWER PLANT BOILER #3 FEEDWATER SYSTEM FLOW TRANSMITTER DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54189	0239-OAK-BLR3-V-009: OAKDALE POWER PLANT BOILER #3 FEEDWATER SYSTEM FLOW TRANSMITTER DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54190	0239-OAK-BLR3-V-010: OAKDALE POWER PLANT BOILER #3 FEEDWATER SYSTEM FLOW TRANSMITTER	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54191	0239-OAK-BLR3-V-011: OAKDALE POWER PLANT BOILER #3 STEAM LINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54192	0239-OAK-BLR3-V-012: OAKDALE POWER PLANT BOILER #3 STEAM LINE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54193	0239-OAK-BLR3-V-013: OAKDALE POWER PLANT BOILER #3 STEAM LINE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54194	0239-OAK-BLR3-V-014: OAKDALE POWER PLANT BOILER #3 DRUM TOP VENT THROTTLE VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54195	0239-OAK-BLR3-V-015: OAKDALE POWER PLANT BOILER #3 STEAM DRUM NON RETURN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54196	0239-OAK-BLR3-V-016: OAKDALE POWER PLANT BOILER #3 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54197	0239-OAK-BLR3-V-017: OAKDALE POWER PLANT BOILER #3 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54198	0239-OAK-BLR3-V-018: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET DRAIN TRAPPING STATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54199	0239-OAK-BLR3-V-019: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET DRAIN TRAP STATION BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54200	0239-OAK-BLR3-V-020: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET STEAM TRAP INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54201	0239-OAK-BLR3-V-021: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET STEAM TRAP OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54202	0239-OAK-BLR3-V-022: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET STEAM TRAP DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54203	0239-OAK-BLR3-V-023: OAKDALE POWER PLANT BOILER #3 BOILER #3 STEAM OUTLET STEAM TRAPPING	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54204	0239-OAK-BLR3-V-024: OAKDALE POWER PLANT BOILER #3 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54205	0239-OAK-BLR3-V-026: OAKDALE POWER PLANT BOILER #3 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54206	0239-OAK-BLR3-V-027: OAKDALE POWER PLANT BOILER #3 STEAM STEAM ISOLATION [ABANDON LINE]	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54207	0239-OAK-BLR3-V-028: OAKDALE POWER PLANT BOILER #3 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54208	0239-OAK-BLR3-V-029: OAKDALE POWER PLANT BOILER #3 STEAM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54209	0239-OAK-BLR3-V-030: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET SECOND HEADER ISOLATION VALVE BYPASS VALVE (INNER)	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54210	0239-OAK-BLR3-V-031: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET SECOND HEADER ISOLATION VALVE BYPASS VALVE (OUTER)	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54211	0239-OAK-BLR3-V-032: OAKDALE POWER PLANT BOILER #3 STEAM OUTLET SECOND HEADER ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54212	0239-OAK-BLR3-V-033: OAKDALE POWER PLANT BOILER #3 STEAM FLOW ORIFICE HIGH PRESSURE TAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54213	0239-OAK-BLR3-V-034: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER HIGH PRESSURE CONDENSING CHAMBER OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54214	0239-OAK-BLR3-V-035: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER HIGH PRESSURE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54215	0239-OAK-BLR3-V-036: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER HIGH PRESSURE DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54216	0239-OAK-BLR3-V-037: OAKDALE POWER PLANT BOILER #3 STEAM FLOW ORIFICE LOW PRESSURE TAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54217	0239-OAK-BLR3-V-038: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER LOW PRESSURE CONDENSING CHAMBER OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54218	0239-OAK-BLR3-V-039: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER LOW PRESSURE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54219	0239-OAK-BLR3-V-040: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER LOW PRESSURE DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54220	0239-OAK-BLR3-V-041: OAKDALE POWER PLANT BOILER #3 STEAM FLOW TRANSMITTER ISOLATION/EQUALIZING	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54221	0239-OAK-BLR3-V-042: OAKDALE POWER PLANT BOILER #3 STEAM DRUM CONTINUOUS BLOWDOWN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54222	0239-OAK-BLR3-V-043: OAKDALE POWER PLANT BOILER #3 STEAM DRUM CONTINUOUS BLOWDOWN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54223	0239-OAK-BLR3-V-044: OAKDALE POWER PLANT BOILER #3 SOOTBLOWING STEAM SUPPLY	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54224	0239-OAK-BLR3-V-045: OAKDALE POWER PLANT BOILER #3 SOOTBLOWING STEAM SUPPLY	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54225	0239-OAK-BLR3-V-047: OAKDALE POWER PLANT BOILER #3 BLOWDOWN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54226	0239-OAK-BLR3-V-050: OAKDALE POWER PLANT BOILER #3 SOUTH LOWER MUD HEADER DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54227	0239-OAK-BLR3-V-051: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL TRANSMITTER VARIABLE LEG	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54228	0239-OAK-BLR3-V-052: OAKDALE POWER PLANT BOILER #3 STEAM DRUM WATER COLUMN BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54229	0239-OAK-BLR3-V-053: OAKDALE POWER PLANT BOILER #3 STEAM DRUM SIGHT GLASS BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54230	0239-OAK-BLR3-V-054: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL TRANSMITTER MANIFOLD VALVES	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54231	0239-OAK-BLR3-V-055: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL TRANSMITTER VARIABLE LEG	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54232	0239-OAK-BLR3-V-056: OAKDALE POWER PLANT BOILER #3 STEAM DRUM LEVEL TRANSMITTER REFERENCE LEG	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54233	0239-OAK-BLR3-V-057: OAKDALE POWER PLANT BOILER #3 SOOTBLOWER STEAM SUPPLY DRAIN VALVE ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54234	0239-OAK-BLR3-V-058: OAKDALE POWER PLANT BOILER #3 NORTH LOWER MUD HEADER BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54235	0239-OAK-BLR3-V-059: OAKDALE POWER PLANT BOILER #3 STEAM DRUM WATER COLUMN BLOWDOWN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54236	0239-OAK-BLR3-V-060: OAKDALE POWER PLANT BOILER #3 STEAM DRUM SIGHT GLASS BLOWDOWN ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54237	0239-OAK-BLR3-V-061: OAKDALE POWER PLANT BOILER #3 BLOWDOWN OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54238	0239-OAK-BLR3-V-062: OAKDALE POWER PLANT BOILER #3 MUD DRUM BLOWDOWN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54239	0239-OAK-BLR3-V-063: OAKDALE POWER PLANT BOILER #3 MUD DRUM BLOWDOWN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54240	0239-OAK-BLR3-V-064 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54241	0239-OAK-BLR3-V-065 : OAKDALE POWER PLANT BOILER #3 STEAM PRESSURE TRANSMITTER ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54242	0239-OAK-BLR3-V-066 : OAKDALE POWER PLANT BOILER #3 CHEMICAL LAYUP RECIRCULATION PUMP VENT	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54243	0239-OAK-BLR3-V-067 : OAKDALE POWER PLANT BOILER #3 CHEMICAL LAYUP RECIRCULATION DISCHARGE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54244	0239-OAK-BLR3-V-068 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM TOP VENT (ALSO CHEMICAL LAYUP RECIRCULATION RETURN ISOLATION)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54245	0239-OAK-BLR3-V-069 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM TOP VENT (ALSO CHEMICAL LAYUP RECIRCULATION RETURN ISOLATION)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54246	0239-OAK-BLR3-V-070 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS SUPPLY	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54247	0239-OAK-BLR3-V-071 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS SUPPLY	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54248	0239-OAK-BLR3-V-072 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS VENT VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54249	0239-OAK-BLR3-V-073 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54250	0239-OAK-BLR3-V-079 : OAKDALE POWER PLANT BOILER #3 NORTH LOWER MUD HEADER DRAIN VALVE (ALSO CHEMICAL LAYUP	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54251	0239-OAK-BLR3-V-080 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS RACK	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54252	0239-OAK-BLR3-V-081 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS RACK	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54253	0239-OAK-BLR3-V-082 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54254	0239-OAK-BLR3-V-083 : OAKDALE POWER PLANT BOILER #3 PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54255	0239-OAK-BLR3-V-084 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54257	0239-OAK-BLR3-V-085 : OAKDALE POWER PLANT BOILER #3 EXHAUST	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54258	0239-OAK-BLR3-V-086 : OAKDALE POWER PLANT BOILER #3 INDUCED DRAFT FAN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54259	0239-OAK-BLR3-V-087 : OAKDALE POWER PLANT BOILER #3 MODULATING MOTOR TO I.D. FAN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54260	0239-OAK-BLR3-V-088 : OAKDALE POWER PLANT BOILER #3 INDUCED DRAFT FAN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54261	0239-OAK-BLR3-V-089 : OAKDALE POWER PLANT BOILER #3 INDUCED DRAFT FAN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54262	0239-OAK-BLR3-V-090 : OAKDALE POWER PLANT BOILER #3 F.D. FAN TO GAS BURNER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54263	0239-OAK-BLR3-V-091 : OAKDALE POWER PLANT BOILER #3 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54264	0239-OAK-BLR3-V-092 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM PRESSURE INSTRUMENTS DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54265	0239-OAK-BLR3-V-101 : OAKDALE POWER PLANT BOILER #3 GAS TRAIN REGULATOR INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54266	0239-OAK-BLR3-V-102 : OAKDALE POWER PLANT BOILER #3 GAS TRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54267	0239-OAK-BLR3-V-103 : OAKDALE POWER PLANT BOILER #3 BURNER MAIN GAS ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54268	0239-OAK-BLR3-V-105 : OAKDALE POWER PLANT BOILER #3 MAIN GAS SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54269	0239-OAK-BLR3-V-109 : OAKDALE POWER PLANT BOILER #3 STEAM DRUM TOP VENT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54270	0239-OAK-BLR3-YS-001 : OAKDALE POWER PLANT BOILER #3 STEAM OUTLET TRAPPING STATION	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54271	0239-OAK-BLR3-YS-100 : OAKDALE POWER PLANT BOILER #3 PILOT GAS REGULATOR INLET STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54272	0239-OAK-BLR4-AOV-001 : OAKDALE POWER PLANT BOILER #4 OUTLET FROM ECONOMIZER AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54273	0239-OAK-BLR4-BLR-001 : OAKDALE POWER PLANT OAKDALE GAS BOILER	SERIALIZED	BOILER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54274	0239-OAK-BLR4-CHK-001 : OAKDALE POWER PLANT BOILER #4 FEEDWATER INLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54275	0239-OAK-BLR4-CHK-100 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54276	0239-OAK-BLR4-CU-001 : OAKDALE POWER PLANT BOILER #4 I/P CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54277	0239-OAK-BLR4-CV-100 : OAKDALE POWER PLANT BOILER #4 GAS FUEL INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54278	0239-OAK-BLR4-FAN-001 : OAKDALE POWER PLANT BOILER #4 INDUCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54279	0239-OAK-BLR4-FAN-002 : OAKDALE POWER PLANT BOILER #4 FORCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54280	0239-OAK-BLR4-FLT-001 : OAKDALE POWER PLANT BOILER#4 FEEDWATER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54281	0239-OAK-BLR4-FLT-003 : OAKDALE POWER PLANT BOILER #4 OUTLET MEDIUM PRESSURE STEAM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54282	0239-OAK-BLR4-FM-100 : OAKDALE POWER PLANT GAS FUEL SYSTEM FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54283	0239-OAK-BLR4-FO-001 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54284	0239-OAK-BLR4-LT-001 : OAKDALE POWER PLANT BOILER#4 BLOWDOWN LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54285	0239-OAK-BLR4-MOV-100 : OAKDALE POWER PLANT BOILER #4 FIRST MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54286	0239-OAK-BLR4-MOV-101 : OAKDALE POWER PLANT BOILER #4 SECOND MAIN GAS SHUTOFF VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54287	0239-OAK-BLR4-MTR-001 : OAKDALE POWER PLANT BOILER #4 EXHAUST MODULATING MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54288	0239-OAK-BLR4-PG-001 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54289	0239-OAK-BLR4-PG-002 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54290	0239-OAK-BLR4-PG-006 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54291	0239-OAK-BLR4-PG-100 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54292	0239-OAK-BLR4-PG-101 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54293	0239-OAK-BLR4-PG-102 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54294	0239-OAK-BLR4-PS-003 : OAKDALE POWER PLANT BOILER #4 PRESSURE	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54295	0239-OAK-BLR4-PS-004 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM HIGH PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54296	0239-OAK-BLR4-PS-005 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM HIGH PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54297	0239-OAK-BLR4-PS-100 : OAKDALE POWER PLANT BOILER #4 GAS BURNER LOW PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54298	0239-OAK-BLR4-RV-001 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54299	0239-OAK-BLR4-RV-002 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54300	0239-OAK-BLR4-RV-100 : OAKDALE POWER PLANT BOILER #4 GAS FUEL	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54301	0239-OAK-BLR4-SB-001 : OAKDALE POWER PLANT BOILER #4 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54302	0239-OAK-BLR4-SB-002 : OAKDALE POWER PLANT BOILER #4 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54303	0239-OAK-BLR4-SB-003 : OAKDALE POWER PLANT BOILER #4 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54304	0239-OAK-BLR4-SB-004 : OAKDALE POWER PLANT BOILER #4 SOOT	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54305	0239-OAK-BLR4-SG-001 : OAKDALE POWER PLANT BOILER #4 WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54306	0239-OAK-BLR4-SOV-100 : OAKDALE POWER PLANT BOILER #4 PILOT GAS ISOLATION SOLENOID VALVE #1	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54307	0239-OAK-BLR4-SOV-101 : OAKDALE POWER PLANT BOILER #4 PILOT GAS ISOLATION SOLENOID VALVE #2	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54308	0239-OAK-BLR4-SOV-102 : OAKDALE POWER PLANT BOILER #4 PILOT GAS VENT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54309	0239-OAK-BLR4-SOV-103 : OAKDALE POWER PLANT BOILER #4 PILOT GAS VENT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54310	0239-OAK-BLR4-TG-001 : OAKDALE POWER PLANT BOILER #4 FEEDWATER TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54311	0239-OAK-BLR4-TRAP-001 : OAKDALE POWER PLANT BOILER #4 STEAM TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54312	0239-OAK-BLR4-V-001 : OAKDALE POWER PLANT BOILER #4 FEEDWATER INLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54313	0239-OAK-BLR4-V-002 : OAKDALE POWER PLANT BOILER #4 FEEDWATER AIR OPERATED VALVE OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54314	0239-OAK-BLR4-V-003 : OAKDALE POWER PLANT BOILER #4 FEEDWATER AIR OPERATED VALVE BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54315	0239-OAK-BLR4-V-004 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54316	0239-OAK-BLR4-V-005 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM FLOW TRANSMITTER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54317	0239-OAK-BLR4-V-006 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM FLOW TRANSMITTER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54318	0239-OAK-BLR4-V-007 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54319	0239-OAK-BLR4-V-008 : OAKDALE POWER PLANT BOILER #4 FEEDWATER SYSTEM FLOW TRANSMITTER	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54320	0239-OAK-BLR4-V-009 : OAKDALE POWER PLANT BOILER #4 FEEDWATER AIR OPERATED VALVE INLET ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54321	0239-OAK-BLR4-V-010 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54322	0239-OAK-BLR4-V-011 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54323	0239-OAK-BLR4-V-012 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54324	0239-OAK-BLR4-V-013 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54325	0239-OAK-BLR4-V-014 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54326	0239-OAK-BLR4-V-015 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN SOOTBLOWER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54327	0239-OAK-BLR4-V-016 : OAKDALE POWER PLANT BOILER #4 WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54328	0239-OAK-BLR4-V-017 : OAKDALE POWER PLANT BOILER #4 WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54329	0239-OAK-BLR4-V-018 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54330	0239-OAK-BLR4-V-019 : OAKDALE POWER PLANT BOILER#4 BLOWDOWN LOW WATER CUTOFF OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54331	0239-OAK-BLR4-V-020 : OAKDALE POWER PLANT BOILER#4 BLOWDOWN LOW WATER CUTOFF OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54332	0239-OAK-BLR4-V-021 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54333	0239-OAK-BLR4-V-022 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN SYSTEM FLOW TRANSMITTER	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54334	0239-OAK-BLR4-V-023 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54335	0239-OAK-BLR4-V-024 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54336	0239-OAK-BLR4-V-025 : OAKDALE POWER PLANT BOILER #4 EXHAUST	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54337	0239-OAK-BLR4-V-026 : OAKDALE POWER PLANT BOILER #4 INDUCED DRAFT FAN ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54338	0239-OAK-BLR4-V-027 : OAKDALE POWER PLANT BOILER #4 MODULATING MOTOR TO I.D. FAN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54339	0239-OAK-BLR4-V-028 : OAKDALE POWER PLANT BOILER #4 INDUCED DRAFT FAN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54340	0239-OAK-BLR4-V-029 : OAKDALE POWER PLANT BOILER#4 BLOWDOWN DRAIN ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54341	0239-OAK-BLR4-V-030 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN SYSTEM SOOTBLOWER OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54342	0239-OAK-BLR4-V-031 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54343	0239-OAK-BLR4-V-032 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM BLOWDOWN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54344	0239-OAK-BLR4-V-033 : OAKDALE POWER PLANT BOILER #4 SIGHT GLASS BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54345	0239-OAK-BLR4-V-034 : OAKDALE POWER PLANT BOILER #4 WATER COLUMN BLOWDOWN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54346	0239-OAK-BLR4-V-035 : OAKDALE POWER PLANT BOILER #4 WATER COLUMN BLOWDOWN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54347	0239-OAK-BLR4-V-036 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54348	0239-OAK-BLR4-V-037 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54349	0239-OAK-BLR4-V-038 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54350	0239-OAK-BLR4-V-039 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54351	0239-OAK-BLR4-V-040 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54352	0239-OAK-BLR4-V-041 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54353	0239-OAK-BLR4-V-042 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54354	0239-OAK-BLR4-V-043 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54355	0239-OAK-BLR4-V-044 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54356	0239-OAK-BLR4-V-045 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54357	0239-OAK-BLR4-V-046 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54358	0239-OAK-BLR4-V-047 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54359	0239-OAK-BLR4-V-048 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54360	0239-OAK-BLR4-V-049 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54361	0239-OAK-BLR4-V-050 : OAKDALE POWER PLANT BOILER #4 STEAM MAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54362	0239-OAK-BLR4-V-051 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54363	0239-OAK-BLR4-V-052 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54364	0239-OAK-BLR4-V-053 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54365	0239-OAK-BLR4-V-054 : OAKDALE POWER PLANT BOILER #4 DRUM STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54366	0239-OAK-BLR4-V-055 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM OUTLET BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54367	0239-OAK-BLR4-V-056 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM OUTLET BYPASS	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54368	0239-OAK-BLR4-V-057 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM OUTLET HEADER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54369	0239-OAK-BLR4-V-058 : OAKDALE POWER PLANT BOILER #4 STEAM FLOW ORIFICE HIGH PRESSURE TAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54370	0239-OAK-BLR4-V-059 : OAKDALE POWER PLANT BOILER #4 STEAM FLOW ORIFICE LOW PRESSURE TAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54371	0239-OAK-BLR4-V-060 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM FLOW TRANSMITTER	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54372	0239-OAK-BLR4-V-061 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54373	0239-OAK-BLR4-V-062 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM FLOW TRANSMITTER	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54374	0239-OAK-BLR4-V-063 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE STEAM OUTLET DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54375	0239-OAK-BLR4-V-064 : OAKDALE POWER PLANT BOILER #4 MEDIUM PRESSURE SYSTEM FLOW TRANSMITTER	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54376	0239-OAK-BLR4-V-065 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54377	0239-OAK-BLR4-V-066 : OAKDALE POWER PLANT BOILER#4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54378	0239-OAK-BLR4-V-067 : OAKDALE POWER PLANT BOILER#4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54379	0239-OAK-BLR4-V-068 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54380	0239-OAK-BLR4-V-069 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54381	0239-OAK-BLR4-V-070 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54382	0239-OAK-BLR4-V-071 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54383	0239-OAK-BLR4-V-072 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM PLUG ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54384	0239-OAK-BLR4-V-073 : OAKDALE POWER PLANT BOILER #4 STEAM DRUM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54385	0239-OAK-BLR4-V-074 : OAKDALE POWER PLANT BOILER #4 INDUCED DRAFT FAN OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54386	0239-OAK-BLR4-V-075 : OAKDALE POWER PLANT BOILER #4 F.D. FAN TO GAS BURNER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54387	0239-OAK-BLR4-V-100 : OAKDALE POWER PLANT GAS TO CONTROL PANEL ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54388	0239-OAK-BLR4-V-101 : OAKDALE POWER PLANT GAS TO CONTROL PANEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54389	0239-OAK-BLR4-V-102 : OAKDALE POWER PLANT BOILER #4 GAS FUEL SYSTEM PLUG VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54390	0239-OAK-BLR4-V-103 : OAKDALE POWER PLANT BOILER #4 PILOT GAS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54391	0239-OAK-BLR4-V-104 : OAKDALE POWER PLANT BOILER #4 MAIN GAS SUPPLY PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54392	0239-OAK-BLR4-V-106 : OAKDALE POWER PLANT BOILER #4 GAS FUEL SYSTEM PLUG VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54393	0239-OAK-BLR4-V-107 : OAKDALE POWER PLANT BOILER #4 GAS TRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54394	0239-OAK-BLR4-V-108 : OAKDALE POWER PLANT BOILER #4 BURNER MAIN GAS ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54395	0239-OAK-BLR4-V-109 : OAKDALE POWER PLANT BOILER #4 GAS FUEL PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54396	0239-OAK-BLR4-YS-001 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN SOOTBLOWER OUTLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54397	0239-OAK-BLR4-YS-002 : OAKDALE POWER PLANT BOILER #4 CONDENSATE FROM MEDIUM PRESSURE STEAM TRAP	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54398	0239-OAK-BLR4-YS-100 : OAKDALE POWER PLANT BOILER #4 PILOT GAS REGULATOR INLET STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54399	0239-OAK-BLR4-LSV-001 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN LEVEL SENSING VALVE	SERIALIZED	VALVE LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54400	0239-OAK-BLR4-LSV-002 : OAKDALE POWER PLANT BOILER #4 BLOWDOWN LEVEL SENSING VALVE	SERIALIZED	VALVE LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54401	0239-OAK-GLY1-CHK-001 : OAKDALE POWER PLANT GLYCOL LOOP 1B GLYCOL COOLANT PUMP DISCHARGE CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54402	0239-OAK-GLY1-CV-001 : OAKDALE POWER PLANT GLYCOL LOOP 1A	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54403	0239-OAK-GLY1-CV-002 : OAKDALE POWER PLANT GLYCOL LOOP 1B	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54404	0239-OAK-GLY1-CV-003 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR OUTLET TEMPERATURE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54405	0239-OAK-GLY1-CV-004 : OAKDALE POWER PLANT GLYCOL LOOP 1A INTER LOOP TEMPERATURE CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54406	0239-OAK-GLY1-CV-005 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR OUTLET TEMPERATURE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54407	0239-OAK-GLY1-P-CNT-001 : OAKDALE POWER PLANT GLYCOL LOOP 1B	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54408	0239-OAK-GLY1-PG-002 : OAKDALE POWER PLANT GLYCOL LOOP 1A ENGINE 1 OUTLET GLYCOL OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54409	0239-OAK-GLY1-PG-004 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HX 1A GLYCOL INLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54410	0239-OAK-GLY1-PG-005 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HX 1A GLYCOL OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54411	0239-OAK-GLY1-PG-006 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54412	0239-OAK-GLY1-PG-007 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54413	0239-OAK-GLY1-PG-008 : OAKDALE POWER PLANT GLYCOL LOOP 1B ENGINE 1 GLYCOL OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54414	0239-OAK-GLY1-PS-001 : OAKDALE POWER PLANT GLYCOL LOOP 1B LOW PRESSURE INTERLOCK SWITCH	SERIALIZED	SENSOR PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54415	0239-OAK-GLY1-RV-003 : OAKDALE POWER PLANT GLYCOL LOOP 1A RELIEF VALVE [35 PSIG]	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54416	0239-OAK-GLY1-RV-004 : OAKDALE POWER PLANT GLYCOL LOOP 1A ENGINE 1 GLYCOL INLET RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54417	0239-OAK-GLY1-RV-005 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HX 1A GLYCOL RELIEF VALVE [50 PSIG]	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54418	0239-OAK-GLY1-RV-006 : OAKDALE POWER PLANT GLYCOL LOOP 1B RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54419	0239-OAK-GLY1-TG-001 : OAKDALE POWER PLANT GLYCOL LOOP 1A	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54420	0239-OAK-GLY1-TG-002 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HX 1A INLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54421	0239-OAK-GLY1-TG-003 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HX 1A OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54422	0239-OAK-GLY1-TG-004 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54423	0239-OAK-GLY1-TG-005 : OAKDALE POWER PLANT GLYCOL LOOP 1B ENGINE 1 OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54424	0239-OAK-GLY1-TNK-001A : OAKDALE POWER PLANT GLYCOL LOOP 1A GLYCOL EXPANSION TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54425	0239-OAK-GLY1-TNK-001B : OAKDALE POWER PLANT GLYCOL LOOP 1B GLYCOL EXPANSION TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54426	0239-OAK-GLY1-TRS-001 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR OUTLET TEMPERATURE	SERIALIZED	SENSOR TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54427	0239-OAK-GLY1-V-006 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXCHANGER 1A INLET ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54428	0239-OAK-GLY1-V-007 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXCHANGER 1A VENT VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54429	0239-OAK-GLY1-V-008 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXHANGER 1A DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54430	0239-OAK-GLY1-V-009 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXCHANGER 1A OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54431	0239-OAK-GLY1-V-010 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXCHANGER 1A BYPASS VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54432	0239-OAK-GLY1-V-011 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXCHANGER 1A INLET PRESSURE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54433	0239-OAK-GLY1-V-012 : OAKDALE POWER PLANT GLYCOL LOOP 1A HW HEAT EXHANGER 1A OUTLET PRESSURE GAUGE 5 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54434	0239-OAK-GLY1-V-013 : OAKDALE POWER PLANT GLYCOL LOOP 1A AUTO AIR VENT 1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54435	0239-OAK-GLY1-V-014 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54436	0239-OAK-GLY1-V-015 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 INLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54437	0239-OAK-GLY1-V-016 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 INLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54438	0239-OAK-GLY1-V-017 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 OUTLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54439	0239-OAK-GLY1-V-018 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 OUTLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54440	0239-OAK-GLY1-V-019 : OAKDALE POWER PLANT GLYCOL LOOP 1A RADIATOR 1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54441	0239-OAK-GLY1-V-020 : OAKDALE POWER PLANT GLYCOL LOOP 1A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54442	0239-OAK-GLY1-V-021 : OAKDALE POWER PLANT GLYCOL LOOP 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54443	0239-OAK-GLY1-V-023 : OAKDALE POWER PLANT GLYCOL LOOP 1A FILL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54444	0239-OAK-GLY1-V-024 : OAKDALE POWER PLANT GLYCOL LOOP 1A EXPANSION TANK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54445	0239-OAK-GLY1-V-025 : OAKDALE POWER PLANT GLYCOL LOOP 1A	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54446	0239-OAK-GLY1-V-026 : OAKDALE POWER PLANT GLYCOL LOOP 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54447	0239-OAK-GLY1-V-027 : OAKDALE POWER PLANT GLYCOL LOOP 1A PG 2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54448	0239-OAK-GLY1-V-028 : OAKDALE POWER PLANT GLYCOL LOOP 1A PG 2	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54449	0239-OAK-GLY1-V-029 : OAKDALE POWER PLANT GLYCOL LOOP 1A	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54450	0239-OAK-GLY1-V-030 : OAKDALE POWER PLANT GLYCOL LOOP 1A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54451	0239-OAK-GLY1-V-033 : OAKDALE POWER PLANT GLYCOL LOOP 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54452	0239-OAK-GLY1-V-034 : OAKDALE POWER PLANT GLYCOL LOOP 1A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54453	0239-OAK-GLY1-V-051 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54454	0239-OAK-GLY1-V-052 : OAKDALE POWER PLANT GLYCOL LOOP 1B LOW PRESSURE INTERLOCK SWITCH 1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54455	0239-OAK-GLY1-V-053 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION PRESSURE GAUGE 6	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54456	0239-OAK-GLY1-V-054 : OAKDALE POWER PLANT GLYCOL LOOP 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54457	0239-OAK-GLY1-V-055 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION WYE STRAINER BLOWDOWN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54458	0239-OAK-GLY1-V-056 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP DISCHARGE PRESSURE GAUGE 7	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54459	0239-OAK-GLY1-V-057 : OAKDALE POWER PLANT GLYCOL LOOP 1B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54460	0239-OAK-GLY1-V-058 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54461	0239-OAK-GLY1-V-059 : OAKDALE POWER PLANT GLYCOL LOOP 1B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54462	0239-OAK-GLY1-V-062 : OAKDALE POWER PLANT GLYCOL LOOP 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54463	0239-OAK-GLY1-V-063 : OAKDALE POWER PLANT GLYCOL LOOP 1B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54464	0239-OAK-GLY1-V-066 : OAKDALE POWER PLANT GLYCOL LOOP 1B ENGINE 1 GLYCOL OUTLET PG 8 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54465	0239-OAK-GLY1-V-067 : OAKDALE POWER PLANT GLYCOL LOOP 1B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54466	0239-OAK-GLY1-V-068 : OAKDALE POWER PLANT GLYCOL LOOP 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54467	0239-OAK-GLY1-V-069 : OAKDALE POWER PLANT GLYCOL LOOP 1B AUTO AIR VENT 2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54468	0239-OAK-GLY1-V-070 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54469	0239-OAK-GLY1-V-071 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR 1 INLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54470	0239-OAK-GLY1-V-072 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR INLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54471	0239-OAK-GLY1-V-073 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR OUTLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54472	0239-OAK-GLY1-V-074 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR 1 OUTLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54473	0239-OAK-GLY1-V-075 : OAKDALE POWER PLANT GLYCOL LOOP 1B RADIATOR 1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54474	0239-OAK-GLY1-V-076 : OAKDALE POWER PLANT GLYCOL LOOP 1B FILL CONNECTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54475	0239-OAK-GLY1-V-077 : OAKDALE POWER PLANT GLYCOL LOOP 1B EXPANSION TANK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54476	0239-OAK-GLY1-YS-001 : OAKDALE POWER PLANT GLYCOL LOOP 1B PUMP SUCTION WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54477	0239-OAK-GLY2-CHK-001: OAKDALE POWER PLANT GLYCOL LOOP 2B GLYCOL COOLANT PUMP DISCHARGE CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54478	0239-OAK-GLY2-CV-001: OAKDALE POWER PLANT GLYCOL LOOP 2A	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54479	0239-OAK-GLY2-CV-002: OAKDALE POWER PLANT GLYCOL LOOP 2B	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54480	0239-OAK-GLY2-CV-003: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR OUTLET TEMPERATURE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54481	0239-OAK-GLY2-CV-004: OAKDALE POWER PLANT GLYCOL LOOP 2A INTER LOOP TEMPERATURE CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54482	0239-OAK-GLY2-CV-005: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR OUTLET TEMPERATURE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54483	0239-OAK-GLY2-P-CNT-001: OAKDALE POWER PLANT GLYCOL LOOP 2B	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54484	0239-OAK-GLY2-PG-002: OAKDALE POWER PLANT GLYCOL LOOP 2A ENGINE 2 OUTLET GLYCOL OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54486	0239-OAK-GLY2-PG-004: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HX 1B GLYCOL INLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54487	0239-OAK-GLY2-PG-005: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HX 1B GLYCOL OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54488	0239-OAK-GLY2-PG-006: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54489	0239-OAK-GLY2-PG-007: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54490	0239-OAK-GLY2-PG-008: OAKDALE POWER PLANT GLYCOL LOOP 2B ENGINE 2 GLYCOL OUTLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54491	0239-OAK-GLY2-PS-001: OAKDALE POWER PLANT GLYCOL LOOP 2B LOW PRESSURE INTERLOCK SWITCH	SERIALIZED	SENSOR PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54492	0239-OAK-GLY2-RV-003: OAKDALE POWER PLANT GLYCOL LOOP 2A RELIEF VALVE [35 PSIG]	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54493	0239-OAK-GLY2-RV-004: OAKDALE POWER PLANT GLYCOL LOOP 2A ENGINE 2 GLYCOL INLET RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54494	0239-OAK-GLY2-RV-005: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HX 1B GLYCOL RELIEF VALVE [50 PSIG]	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54495	0239-OAK-GLY2-RV-006: OAKDALE POWER PLANT GLYCOL LOOP 2B RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54496	0239-OAK-GLY2-TG-001: OAKDALE POWER PLANT GLYCOL LOOP 2A	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54497	0239-OAK-GLY2-TG-002: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HX 1B INLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54498	0239-OAK-GLY2-TG-003: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HX 1B OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54499	0239-OAK-GLY2-TG-004: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54500	0239-OAK-GLY2-TG-005: OAKDALE POWER PLANT GLYCOL LOOP 2B ENGINE 2 OUTLET TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54501	0239-OAK-GLY2-TNK-002A: OAKDALE POWER PLANT GLYCOL LOOP 2A GLYCOL EXPANSION TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54502	0239-OAK-GLY2-TNK-002B: OAKDALE POWER PLANT GLYCOL LOOP 2B GLYCOL EXPANSION TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54503	0239-OAK-GLY2-TRS-001: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR OUTLET TEMPERATURE	SERIALIZED	SENSOR TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54504	0239-OAK-GLY2-V-006: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B INLET ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54505	0239-OAK-GLY2-V-007: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B VENT VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54506	0239-OAK-GLY2-V-008: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54507	0239-OAK-GLY2-V-009: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54508	0239-OAK-GLY2-V-010: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B BYPASS VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54509	0239-OAK-GLY2-V-011: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B INLET PRESSURE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54510	0239-OAK-GLY2-V-012: OAKDALE POWER PLANT GLYCOL LOOP 2A HW HEAT EXCHANGER 1B OUTLET PRESSURE GAUGE 5 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54511	0239-OAK-GLY2-V-013: OAKDALE POWER PLANT GLYCOL LOOP 2A AUTO AIR VENT 1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54512	0239-OAK-GLY2-V-014: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54513	0239-OAK-GLY2-V-015: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 INLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54514	0239-OAK-GLY2-V-016: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 INLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54515	0239-OAK-GLY2-V-017: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 OUTLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54516	0239-OAK-GLY2-V-018: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 OUTLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54517	0239-OAK-GLY2-V-019: OAKDALE POWER PLANT GLYCOL LOOP 2A RADIATOR 1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54518	0239-OAK-GLY2-V-020: OAKDALE POWER PLANT GLYCOL LOOP 2A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54519	0239-OAK-GLY2-V-021: OAKDALE POWER PLANT GLYCOL LOOP 2A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54520	0239-OAK-GLY2-V-022: OAKDALE POWER PLANT GLYCOL LOOP 2A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54521	0239-OAK-GLY2-V-023: OAKDALE POWER PLANT GLYCOL LOOP 2A FILL	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54522	0239-OAK-GLY2-V-024: OAKDALE POWER PLANT GLYCOL LOOP 2A EXPANSION TANK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54523	0239-OAK-GLY2-V-025: OAKDALE POWER PLANT GLYCOL LOOP 2A	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54524	0239-OAK-GLY2-V-026: OAKDALE POWER PLANT GLYCOL LOOP 2A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54525	0239-OAK-GLY2-V-027: OAKDALE POWER PLANT GLYCOL LOOP 2A PG 2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54526	0239-OAK-GLY2-V-028: OAKDALE POWER PLANT GLYCOL LOOP 2A PG 2	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54527	0239-OAK-GLY2-V-029: OAKDALE POWER PLANT GLYCOL LOOP 2A	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54528	0239-OAK-GLY2-V-030: OAKDALE POWER PLANT GLYCOL LOOP 2A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54529	0239-OAK-GLY2-V-031: OAKDALE POWER PLANT GLYCOL LOOP 2A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54530	0239-OAK-GLY2-V-032: OAKDALE POWER PLANT GLYCOL LOOP 2A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54531	0239-OAK-GLY2-V-033: OAKDALE POWER PLANT GLYCOL LOOP 2A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54532	0239-OAK-GLY2-V-034: OAKDALE POWER PLANT GLYCOL LOOP 2A VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54533	0239-OAK-GLY2-V-051: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54534	0239-OAK-GLY2-V-052: OAKDALE POWER PLANT GLYCOL LOOP 2B LOW PRESSURE INTERLOCK SWITCH 1	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54535	0239-OAK-GLY2-V-053: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION PRESSURE GAUGE 6	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54536	0239-OAK-GLY2-V-055: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION WYE STRAINER BLOWDOWN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54537	0239-OAK-GLY2-V-056: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP DISCHARGE PRESSURE GAUGE 7	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54538	0239-OAK-GLY2-V-057: OAKDALE POWER PLANT GLYCOL LOOP 2B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54539	0239-OAK-GLY2-V-058: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54540	0239-OAK-GLY2-V-059: OAKDALE POWER PLANT GLYCOL LOOP 2B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54541	0239-OAK-GLY2-V-060: OAKDALE POWER PLANT GLYCOL LOOP 2B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54542	0239-OAK-GLY2-V-061: OAKDALE POWER PLANT GLYCOL LOOP 2B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54543	0239-OAK-GLY2-V-062: OAKDALE POWER PLANT GLYCOL LOOP 2B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54544	0239-OAK-GLY2-V-063: OAKDALE POWER PLANT GLYCOL LOOP 2B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54545	0239-OAK-GLY2-V-066: OAKDALE POWER PLANT GLYCOL LOOP 2B ENGINE 2 GLYCOL OUTLET PG 8 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54546	0239-OAK-GLY2-V-067: OAKDALE POWER PLANT GLYCOL LOOP 2B VENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54547	0239-OAK-GLY2-V-068: OAKDALE POWER PLANT GLYCOL LOOP 2B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54548	0239-OAK-GLY2-V-069: OAKDALE POWER PLANT GLYCOL LOOP 2B AUTO AIR VENT 2 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54549	0239-OAK-GLY2-V-070: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54550	0239-OAK-GLY2-V-071: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR 1 INLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54551	0239-OAK-GLY2-V-072: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR INLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54552	0239-OAK-GLY2-V-073: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR OUTLET VENT (E) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54553	0239-OAK-GLY2-V-074: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR 1 OUTLET VENT (W) VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54554	0239-OAK-GLY2-V-075: OAKDALE POWER PLANT GLYCOL LOOP 2B RADIATOR 1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54555	0239-OAK-GLY2-V-076: OAKDALE POWER PLANT GLYCOL LOOP 2B FILL CONNECTION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54556	0239-OAK-GLY2-V-077: OAKDALE POWER PLANT GLYCOL LOOP 2B EXPANSION TANK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54557	0239-OAK-GLY2-YS-001: OAKDALE POWER PLANT GLYCOL LOOP 2B PUMP SUCTION WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54558	0239-OAK-GG1-AOV-001 : OAKDALE POWER PLANT ENGINE 1 EXHAUST	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54559	0239-OAK-GG1-CV-001 : OAKDALE POWER PLANT ENGINE 1 COOLANT TCV	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54560	0239-OAK-GG1-FIL-001 : OAKDALE POWER PLANT GAS ENGINE #1 GAS	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54561	0239-OAK-GG1-GEN-001 : OAKDALE POWER PLANT ENGINE 1 GENERATOR	SERIALIZED	CATALYST	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54562	0239-OAK-GG1-HTR-001 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54563	0239-OAK-GG1-HX-001 : OAKDALE POWER PLANT ENGINE 1 LUBE OIL/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54564	0239-OAK-GG1-HX-002 : OAKDALE POWER PLANT ENGINE 1 AIR COOLER 1ST STAGE/ GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54565	0239-OAK-GG1-HX-003 : OAKDALE POWER PLANT ENGINE 1 AIR COOLER 2ND STAGE/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54566	0239-OAK-GG1-HX-004 : OAKDALE POWER PLANT ENGINE 1 ENGINE BLOCK COOLER/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54567	0239-OAK-GG1-MOV-001 : OAKDALE POWER PLANT GAS ENGINE #1 TECJET GAS CONTROLLER	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54568	0239-OAK-GG1-MV-001 : OAKDALE POWER PLANT ENGINE 1 SOV 1 FLOW	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54569	0239-OAK-GG1-P-CNT-001 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54570	0239-OAK-GG1-P-CNT-002 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP A ENGINE KEEP WARM PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54571	0239-OAK-GG1-PG-001 : OAKDALE POWER PLANT GAS ENGINE #1 REGULATED GAS PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54572	0239-OAK-GG1-PG-002 : OAKDALE POWER PLANT GAS ENGINE #1 GAS PRESSURE GAUGE PRE GEJ REGULATOR	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54573	0239-OAK-GG1-PG-003 : OAKDALE POWER PLANT GAS ENGINE #1 GAS PRESSURE GAUGE POST GEJ	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54574	0239-OAK-GG1-PS-001 : OAKDALE POWER PLANT GAS ENGINE #1	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54575	0239-OAK-GG1-PT-001 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP A COOLANT PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54576	0239-OAK-GG1-PT-002 : OAKDALE POWER PLANT ENGINE 1 EXHAUST OUTLET PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54577	0239-OAK-GG1-PT-003 : OAKDALE POWER PLANT ENGINE 1 EXHAUST SIL 1 PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54578	0239-OAK-GG1-REG-001 : OAKDALE POWER PLANT GAS ENGINE #1 SUPPLY GAS PRESSURE REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54579	0239-OAK-GG1-REG-002 : OAKDALE POWER PLANT GAS ENGINE #1 GAS TRAIN GEJ REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54580	0239-OAK-GG1-RV-001 : OAKDALE POWER PLANT ENGINE 1 MAIN COOLANT PUMP SUCTION RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54581	0239-OAK-GG1-RV-002 : OAKDALE POWER PLANT ENGINE 1 MAIN COOLANT PUMP SUCTION RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54582	0239-OAK-GG1-RV-003 : OAKDALE POWER PLANT GAS ENGINE #1 GAS SUPPLY RELIEF VALVE #1	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54583	0239-OAK-GG1-RV-004 : OAKDALE POWER PLANT GAS ENGINE #1 GAS SUPPLY RELIEF VALVE #2	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54584	0239-OAK-GG1-SIL-001 : OAKDALE POWER PLANT ENGINE 1 EXHAUST SILENCER AND CATALYTIC CONVERTER	SERIALIZED	SILENCER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54585	0239-OAK-GG1-SOV-001 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP A START UP FLOW SOLENIOD	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54586	0239-OAK-GG1-SOV-002 : OAKDALE POWER PLANT GAS ENGINE #1 GAS TRAIN DOUBLE BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54587	0239-OAK-GG1-TT-001 : OAKDALE POWER PLANT ENGINE 1 EXHAUST SILENCER 1 INLET TEMPERATURE	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54588	0239-OAK-GG1-TT-002 : OAKDALE POWER PLANT ENGINE 1 EXHAUST SILENCER 1 OUTLET TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54589	0239-OAK-GG1-V-001 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP A INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54590	0239-OAK-GG1-V-002 : OAKDALE POWER PLANT ENGINE 1 HX 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54591	0239-OAK-GG1-V-003 : OAKDALE POWER PLANT ENGINE 1 MAIN COOLANT PUMP DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54592	0239-OAK-GG1-V-004 : OAKDALE POWER PLANT ENGINE 1 MAIN COOLANT PUMP DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54593	0239-OAK-GG1-V-005 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP 2 KEEP WARM PUMP SUCTION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54594	0239-OAK-GG1-V-006 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP 2 KEEP WARM PUMP DISCHARGE VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54595	0239-OAK-GG1-V-007 : OAKDALE POWER PLANT ENGINE 1 PUMP 2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54596	0239-OAK-GG1-V-008 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP A OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54597	0239-OAK-GG1-V-009 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP B INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54598	0239-OAK-GG1-V-010 : OAKDALE POWER PLANT ENGINE 1 GLYCOL LOOP B OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54599	0239-OAK-GG1-V-011 : OAKDALE POWER PLANT ENGINE 1 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54600	0239-OAK-GG1-V-012 : OAKDALE POWER PLANT ENGINE 1 PT 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54601	0239-OAK-GG1-V-013 : OAKDALE POWER PLANT ENGINE 1 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54602	0239-OAK-GG1-V-014 : OAKDALE POWER PLANT ENGINE 1 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54603	0239-OAK-GG1-V-015 : OAKDALE POWER PLANT ENGINE 1 CATALYTIC CONVERTER DP TRANSMITTER HIGH	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54604	0239-OAK-GG1-V-016 : OAKDALE POWER PLANT ENGINE 1 CATALYTIC CONVERTER DP TRANSMITTER HIGH	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54605	0239-OAK-GG1-V-017 : OAKDALE POWER PLANT ENGINE 1 CATALYTIC CONVERTER DP TRANSMITTER LOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54606	0239-OAK-GG1-V-018 : OAKDALE POWER PLANT ENGINE 1 CATALYTIC CONVERTER DP TRANSMITTER LOW	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54607	0239-OAK-GG1-V-019 : OAKDALE POWER PLANT GAS ENGINE #1 GAS TRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54608	0239-OAK-GG1-V-020 : OAKDALE POWER PLANT GAS ENGINE #1 GAS TRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54609	0239-OAK-GG1-V-021 : OAKDALE POWER PLANT GAS ENGINE #1 REGULATED GAS PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54610	0239-OAK-GG2-AOV-001 : OAKDALE POWER PLANT ENGINE 2 EXHAUST	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54611	0239-OAK-GG2-CV-001 : OAKDALE POWER PLANT ENGINE 2 COOLANT TCV	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54612	0239-OAK-GG2-FIL-001 : OAKDALE POWER PLANT GAS ENGINE #2 GAS	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54613	0239-OAK-GG2-GEN-002 : OAKDALE POWER PLANT ENGINE 2 GENERATOR	SERIALIZED	CATALYST	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54614	0239-OAK-GG2-HTR-001 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP	SERIALIZED	HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54615	0239-OAK-GG2-HX-001 : OAKDALE POWER PLANT ENGINE 2 LUBE OIL/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54616	0239-OAK-GG2-HX-002 : OAKDALE POWER PLANT ENGINE 2 AIR COOLER 1ST STAGE/ GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54617	0239-OAK-GG2-HX-003 : OAKDALE POWER PLANT ENGINE 2 AIR COOLER 2ND STAGE/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54618	0239-OAK-GG2-HX-004 : OAKDALE POWER PLANT ENGINE 2 ENGINE BLOCK COOLER/GLYCOL HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54619	0239-OAK-GG2-MOV-001 : OAKDALE POWER PLANT GAS ENGINE #2 TECJET GAS CONTROLLER	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54620	0239-OAK-GG2-MV-001 : OAKDALE POWER PLANT ENGINE 2 SOV 1 FLOW	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54621	0239-OAK-GG2-P-CNT-001 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54622	0239-OAK-GG2-P-CNT-002 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP A ENGINE KEEP WARM PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54623	0239-OAK-GG2-PG-001 : OAKDALE POWER PLANT GAS ENGINE #2 REGULATED GAS PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54624	0239-OAK-GG2-PG-002 : OAKDALE POWER PLANT GAS ENGINE #2 GAS PRESSURE GAUGE PRE GEJ REGULATOR	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54625	0239-OAK-GG2-PG-003 : OAKDALE POWER PLANT GAS ENGINE #2 GAS PRESSURE GAUGE POST GEJ	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54626	0239-OAK-GG2-PS-001 : OAKDALE POWER PLANT GAS ENGINE #2	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54627	0239-OAK-GG2-PT-001 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP A COOLANT PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54628	0239-OAK-GG2-PT-002 : OAKDALE POWER PLANT ENGINE 2 EXHAUST OUTLET PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54629	0239-OAK-GG2-PT-003 : OAKDALE POWER PLANT ENGINE 2 EXHAUST SIL 1 PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54630	0239-OAK-GG2-REG-001 : OAKDALE POWER PLANT GAS ENGINE #2 SUPPLY GAS PRESSURE REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54631	0239-OAK-GG2-REG-002 : OAKDALE POWER PLANT GAS ENGINE #2 GAS TRAIN GEJ REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54632	0239-OAK-GG2-RV-001 : OAKDALE POWER PLANT ENGINE 2 MAIN COOLANT PUMP SUCTION RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54633	0239-OAK-GG2-RV-002 : OAKDALE POWER PLANT ENGINE 2 MAIN COOLANT PUMP SUCTION RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54634	0239-OAK-GG2-RV-003 : OAKDALE POWER PLANT GAS ENGINE #2 GAS SUPPLY RELIEF VALVE #1	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54635	0239-OAK-GG2-RV-004 : OAKDALE POWER PLANT GAS ENGINE #2 GAS SUPPLY RELIEF VALVE #2	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54636	0239-OAK-GG2-SIL-001 : OAKDALE POWER PLANT ENGINE 2 EXHAUST SILENCER AND CATALYTIC CONVERTER	SERIALIZED	SILENCER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54637	0239-OAK-GG2-SOV-001 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP A START UP FLOW SOLENIOD	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54638	0239-OAK-GG2-SOV-002 : OAKDALE POWER PLANT GAS ENGINE #2 GAS TRAIN DOUBLE BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54639	0239-OAK-GG2-TT-001 : OAKDALE POWER PLANT ENGINE 2 EXHAUST SILENCER 1 INLET TEMPERATURE	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54640	0239-OAK-GG2-TT-002 : OAKDALE POWER PLANT ENGINE 2 EXHAUST SILENCER 1 OUTLET TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54641	0239-OAK-GG2-V-001 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP A INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54642	0239-OAK-GG2-V-002 : OAKDALE POWER PLANT ENGINE 2 HX 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54643	0239-OAK-GG2-V-003 : OAKDALE POWER PLANT ENGINE 2 MAIN COOLANT PUMP DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54644	0239-OAK-GG2-V-004 : OAKDALE POWER PLANT ENGINE 2 MAIN COOLANT PUMP DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54645	0239-OAK-GG2-V-005 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP 2 KEEP WARM PUMP SUCTION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54646	0239-OAK-GG2-V-006 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP 2 KEEP WARM PUMP DISCHARGE VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54647	0239-OAK-GG2-V-007 : OAKDALE POWER PLANT ENGINE 2 PUMP 2	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54648	0239-OAK-GG2-V-008 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP A OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54649	0239-OAK-GG2-V-009 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP B INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54650	0239-OAK-GG2-V-010 : OAKDALE POWER PLANT ENGINE 2 GLYCOL LOOP B OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54651	0239-OAK-GG2-V-011 : OAKDALE POWER PLANT ENGINE 2 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54652	0239-OAK-GG2-V-012 : OAKDALE POWER PLANT ENGINE 2 PT 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54653	0239-OAK-GG2-V-013 : OAKDALE POWER PLANT ENGINE 2 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54654	0239-OAK-GG2-V-014 : OAKDALE POWER PLANT ENGINE 2 PT 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54655	0239-OAK-GG2-V-015 : OAKDALE POWER PLANT ENGINE 2 CATALYTIC CONVERTER DP TRANSMITTER HIGH	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54656	0239-OAK-GG2-V-016 : OAKDALE POWER PLANT ENGINE 2 CATALYTIC CONVERTER DP TRANSMITTER HIGH	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54657	0239-OAK-GG2-V-017 : OAKDALE POWER PLANT ENGINE 2 CATALYTIC CONVERTER DP TRANSMITTER LOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54658	0239-OAK-GG2-V-018 : OAKDALE POWER PLANT ENGINE 2 CATALYTIC CONVERTER DP TRANSMITTER LOW	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54659	0239-OAK-GG2-V-019 : OAKDALE POWER PLANT GAS ENGINE #2 GAS TRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54660	0239-OAK-GG2-V-020 : OAKDALE POWER PLANT GAS ENGINE #2 GAS TRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54661	0239-OAK-GG2-V-021 : OAKDALE POWER PLANT GAS ENGINE #2 REGULATED GAS PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54662	0239-OAK-CON-CHK-001 : OAKDALE POWER PLANT CON PUMP 003/004 BYPASS CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54663	0239-OAK-CON-CHK-002 : OAKDALE POWER PLANT CON PUMP 002 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54664	0239-OAK-CON-CHK-003 : OAKDALE POWER PLANT CON PUMP 001 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54665	0239-OAK-CON-CHK-004 : OAKDALE POWER PLANT CON TRAP 22 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54666	0239-OAK-CON-CHK-005 : OAKDALE POWER PLANT CON TRAP 21 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54667	0239-OAK-CON-CHK-007 : OAKDALE POWER PLANT CON TRAP 010 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54668	0239-OAK-CON-CHK-008 : OAKDALE POWER PLANT CON TRAP 019 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54669	0239-OAK-CON-CHK-009 : OAKDALE POWER PLANT CON TRAP 057 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54670	0239-OAK-CON-CHK-010 : OAKDALE POWER PLANT CON TRAP 5, 6, 7 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54671	0239-OAK-CON-CHK-011 : OAKDALE POWER PLANT CON TRAP 14 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54672	0239-OAK-CON-CHK-012 : OAKDALE POWER PLANT CON TRAP 17 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54673	0239-OAK-CON-CHK-013 : OAKDALE POWER PLANT CON TRAP 58 OULET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54674	0239-OAK-CON-CHK-014 : OAKDALE POWER PLANT CON PG 13 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54675	0239-OAK-CON-CHK-015 : OAKDALE POWER PLANT CON FM 1 OUTLET	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54676	0239-OAK-CON-FLT-001 : OAKDALE POWER PLANT CON TANK 1 OUTLET FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54677	0239-OAK-CON-FLT-002 : OAKDALE POWER PLANT CON TANK 2 OUTLET FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54678	0239-OAK-CON-FM-001 : OAKDALE POWER PLANT CON MUS INLET FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54679	0239-OAK-CON-LS-001 : OAKDALE POWER PLANT CON TANK 1 TOP LEVEL	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54680	0239-OAK-CON-LS-002 : OAKDALE POWER PLANT CON TANK 1 2ND FROM TOP LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54681	0239-OAK-CON-LS-003 : OAKDALE POWER PLANT CON TANK 1 3RD FROM TOP LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54682	0239-OAK-CON-LS-004 : OAKDALE POWER PLANT CON TANK 1 2ND FROM BOTTOM LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54683	0239-OAK-CON-LS-005 : OAKDALE POWER PLANT CON TANK 2 TOP LEVEL	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54684	0239-OAK-CON-LS-006 : OAKDALE POWER PLANT CON TANK 2 2ND FROM TOP LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54685	0239-OAK-CON-LS-007 : OAKDALE POWER PLANT CON TANK 2 3RD FROM TOP LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54686	0239-OAK-CON-LS-008 : OAKDALE POWER PLANT CON TANK 2 2ND FROM BOTTOM LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54687	0239-OAK-CON-LS-009 : OAKDALE POWER PLANT CON TANK 2 BOTTOM	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54688	0239-OAK-CON-LS-010 : OAKDALE POWER PLANT CON TANK 1 BOTTOM	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54689	0239-OAK-CON-P-CNT-001 : OAKDALE POWER PLANT COAL BUNKER CON	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54690	0239-OAK-CON-P-CNT-002 : OAKDALE POWER PLANT COAL BUNKER CON	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54691	0239-OAK-CON-P-CNT-003 : OAKDALE POWER PLANT BASEMENT PIT CON	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54692	0239-OAK-CON-P-CNT-004 : OAKDALE POWER PLANT BASEMENT PIT CON	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54693	0239-OAK-CON-P-CNT-005 : OAKDALE POWER PLANT CON TANK 1&2 OUTLET	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54694	0239-OAK-CON-P-CNT-006 : OAKDALE POWER PLANT CON TANK 1&2 OUTLET	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54695	0239-OAK-CON-P-CNT-007 : OAKDALE POWER PLANT CON TANK 1&2 OUTLET	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54698	0239-OAK-CON-PG-001 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54699	0239-OAK-CON-PG-002 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54700	0239-OAK-CON-PG-003 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54701	0239-OAK-CON-PG-004 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54702	0239-OAK-CON-PG-005 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54703	0239-OAK-CON-PG-006 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54704	0239-OAK-CON-PG-007 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54705	0239-OAK-CON-PG-008 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54706	0239-OAK-CON-PG-009 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54707	0239-OAK-CON-PG-010 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54708	0239-OAK-CON-PG-011 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54709	0239-OAK-CON-PG-012 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54710	0239-OAK-CON-PG-013 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54711	0239-OAK-CON-PG-014 : OAKDALE POWER PLANT CONDENSATE PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54712	0239-OAK-CON-POL-001A : OAKDALE POWER PLANT CONDENSATE POLISHER	SERIALIZED	POLISHER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54713	0239-OAK-CON-POL-001B : OAKDALE POWER PLANT CONDENSATE POLISHER	SERIALIZED	POLISHER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54714	0239-OAK-CON-SC-001 : OAKDALE POWER PLANT CONDENSATE SAMPLE	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54715	0239-OAK-CON-SC-002 : OAKDALE POWER PLANT CONDENSATE SAMPLE	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54716	0239-OAK-CON-SC-003 : OAKDALE POWER PLANT CONDENSATE SAMPLE	SERIALIZED	SAMPLE COOLER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54717	0239-OAK-CON-SG-001 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54718	0239-OAK-CON-SG-002 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54719	0239-OAK-CON-SG-003 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54720	0239-OAK-CON-SG-004 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54721	0239-OAK-CON-SG-005 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54722	0239-OAK-CON-SG-006 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54723	0239-OAK-CON-SG-007 : OAKDALE POWER PLANT CONDENSATE SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54724	0239-OAK-CON-SOV-001 : OAKDALE POWER PLANT CONDENSATE SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54725	0239-OAK-CON-TG-001 : OAKDALE POWER PLANT CONDENSATE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54726	0239-OAK-CON-TG-002 : OAKDALE POWER PLANT CONDENSATE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54727	0239-OAK-CON-TNK-001 : OAKDALE POWER PLANT OAKDALE CONDENSATE	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54728	0239-OAK-CON-TNK-002 : OAKDALE POWER PLANT OAKDALE CONDENSATE	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54729	0239-OAK-CON-TRAP-001 : OAKDALE POWER PLANT CON SEDIMENT TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54730	0239-OAK-CON-TRAP-002 : OAKDALE POWER PLANT CON SEDIMENT TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54731	0239-OAK-CON-TRAP-003 : OAKDALE POWER PLANT CON SEDIMENT TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54732	0239-OAK-CON-TRAP-004 : OAKDALE POWER PLANT ARMSTRONG 1187 CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54733	0239-OAK-CON-TRAP-005 : OAKDALE POWER PLANT ARMSTRONG 1194/ MPS HTR 14 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54734	0239-OAK-CON-TRAP-006 : OAKDALE POWER PLANT ARMSTRONG 1181/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54735	0239-OAK-CON-TRAP-007 : OAKDALE POWER PLANT ARMSTRONG 1180/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54736	0239-OAK-CON-TRAP-008 : OAKDALE POWER PLANT ARMSTRONG 1179/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54737	0239-OAK-CON-TRAP-009 : OAKDALE POWER PLANT ARMSTRONG 1177/ MPS HTR 10 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54738	0239-OAK-CON-TRAP-010 : OAKDALE POWER PLANT MPS HTR 7 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54739	0239-OAK-CON-TRAP-011 : OAKDALE POWER PLANT MPS HTR 8 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54740	0239-OAK-CON-TRAP-012 : OAKDALE POWER PLANT MPS HTR 9 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54741	0239-OAK-CON-TRAP-013 : OAKDALE POWER PLANT ARMSTRONG 1185/ MPS HTR 11 CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54742	0239-OAK-CON-TRAP-014 : OAKDALE POWER PLANT ARMSTRONG 1166/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54743	0239-OAK-CON-TRAP-015 : OAKDALE POWER PLANT ARMSTRONG 1167/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54744	0239-OAK-CON-TRAP-016 : OAKDALE POWER PLANT ARMSTRONG 1165/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54745	0239-OAK-CON-TRAP-017 : OAKDALE POWER PLANT ARMSTRONG 1164/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54746	0239-OAK-CON-TRAP-018 : OAKDALE POWER PLANT ARMSTRONG 1168/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54747	0239-OAK-CON-TRAP-019 : OAKDALE POWER PLANT ARMSTRONG 1161/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54748	0239-OAK-CON-TRAP-020 : OAKDALE POWER PLANT ARMSTRONG 1159/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54749	0239-OAK-CON-TRAP-021 : OAKDALE POWER PLANT ARMSTRONG 1163/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54750	0239-OAK-CON-TRAP-022 : OAKDALE POWER PLANT ARMSTRONG 1162/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54751	0239-OAK-CON-TRAP-023 : OAKDALE POWER PLANT ARMSTRONG 1169/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54752	0239-OAK-CON-TRAP-025 : OAKDALE POWER PLANT ARMSTRONG 1171/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54753	0239-OAK-CON-TRAP-026 : OAKDALE POWER PLANT ARMSTRONG 1172/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54754	0239-OAK-CON-TRAP-027 : OAKDALE POWER PLANT ARMSTRONG 1175/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54755	0239-OAK-CON-TRAP-028 : OAKDALE POWER PLANT ARMSTRONG 1173/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54756	0239-OAK-CON-TRAP-029 : OAKDALE POWER PLANT ARMSTRONG 1174/ CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54757	0239-OAK-CON-TRAP-042 : OAKDALE POWER PLANT MPS HTR 18 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54758	0239-OAK-CON-TRAP-043 : OAKDALE POWER PLANT MPS HTR 18 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54759	0239-OAK-CON-TRAP-044 : OAKDALE POWER PLANT MPS HTR 18 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54760	0239-OAK-CON-TRAP-045 : OAKDALE POWER PLANT MPS HTR 11 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54761	0239-OAK-CON-TRAP-046 : OAKDALE POWER PLANT MPS HTR 12 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54762	0239-OAK-CON-TRAP-047 : OAKDALE POWER PLANT MPS OUTLET CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54763	0239-OAK-CON-TRAP-049 : OAKDALE POWER PLANT BOILER 1 OUTLET CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54764	0239-OAK-CON-TRAP-050 : OAKDALE POWER PLANT BOILER 2 OUTLET CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54765	0239-OAK-CON-TRAP-051 : OAKDALE POWER PLANT BOILER 3 OUTLET CON	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54766	0239-OAK-CON-TRAP-052 : OAKDALE POWER PLANT LPS OUTLET CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54767	0239-OAK-CON-TRAP-053 : OAKDALE POWER PLANT MPS HTR 15 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54768	0239-OAK-CON-TRAP-054 : OAKDALE POWER PLANT MPS HTR 16 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54769	0239-OAK-CON-TRAP-055 : OAKDALE POWER PLANT MPS OUTLET CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54770	0239-OAK-CON-TRAP-056 : OAKDALE POWER PLANT MPS HTR 17 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54771	0239-OAK-CON-TRAP-057 : OAKDALE POWER PLANT MPS OUTLET CON TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54772	0239-OAK-CON-TRAP-058 : OAKDALE POWER PLANT MPS HTR 13 OUTLET	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54773	0239-OAK-CON-V-004 : OAKDALE POWER PLANT CON TRAP 28 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54774	0239-OAK-CON-V-009 : OAKDALE POWER PLANT CON TRAP 29 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54775	0239-OAK-CON-V-010 : OAKDALE POWER PLANT CON TRAP 29 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54776	0239-OAK-CON-V-011 : OAKDALE POWER PLANT CON TRAP 29/28 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54777	0239-OAK-CON-V-015 : OAKDALE POWER PLANT CON TRAP 27 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54778	0239-OAK-CON-V-016 : OAKDALE POWER PLANT CON TRAP 27 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54779	0239-OAK-CON-V-020 : OAKDALE POWER PLANT CON TRAP 26 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54780	0239-OAK-CON-V-021 : OAKDALE POWER PLANT CON TRAP 26 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54781	0239-OAK-CON-V-022 : OAKDALE POWER PLANT CON TRAP 26-29 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54782	0239-OAK-CON-V-023 : OAKDALE POWER PLANT CON TRAP 23 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54783	0239-OAK-CON-V-024 : OAKDALE POWER PLANT CON TRAP 23 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54784	0239-OAK-CON-V-026 : OAKDALE POWER PLANT CON TRAP 25 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54785	0239-OAK-CON-V-027 : OAKDALE POWER PLANT CON TRAP 25 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54786	0239-OAK-CON-V-028 : OAKDALE POWER PLANT CON TRAP 25 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54787	0239-OAK-CON-V-029 : OAKDALE POWER PLANT CON TRAP 25 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54788	0239-OAK-CON-V-030 : OAKDALE POWER PLANT CON TRAP 25-29 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54789	0239-OAK-CON-V-031 : OAKDALE POWER PLANT CON SAMPLE COOLER 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54790	0239-OAK-CON-V-032 : OAKDALE POWER PLANT CON SAMPLE COOLER 1 INLET DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54791	0239-OAK-CON-V-033 : OAKDALE POWER PLANT CON SAMPLE COOLER 1 INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54792	0239-OAK-CON-V-034 : OAKDALE POWER PLANT CON PUMP 3&4 BYPASS ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54793	0239-OAK-CON-V-035 : OAKDALE POWER PLANT CON TRAP 3 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54794	0239-OAK-CON-V-036 : OAKDALE POWER PLANT CON TRAP 3 BYPASS	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54795	0239-OAK-CON-V-037 : OAKDALE POWER PLANT CON TRAP 3 INLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54796	0239-OAK-CON-V-038 : OAKDALE POWER PLANT CON PUMP 3&4 INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54797	0239-OAK-CON-V-039 : OAKDALE POWER PLANT CON PUMP 3 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54798	0239-OAK-CON-V-040 : OAKDALE POWER PLANT CON PG 1 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54799	0239-OAK-CON-V-041 : OAKDALE POWER PLANT CON PUMP 4 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54800	0239-OAK-CON-V-042 : OAKDALE POWER PLANT CON PG 2 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54801	0239-OAK-CON-V-043 : OAKDALE POWER PLANT CON PUMP 3&4 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54802	0239-OAK-CON-V-044 : OAKDALE POWER PLANT CON PLUGGED VALVE CON TANKS ROOM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54803	0239-OAK-CON-V-045 : OAKDALE POWER PLANT CON DRAIN VALVE CON	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54804	0239-OAK-CON-V-046 : OAKDALE POWER PLANT CON ISOLATION VALVE CON TANKS ROOM	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54805	0239-OAK-CON-V-047 : OAKDALE POWER PLANT CON PLUGGED VALVE CON TANKS ROOM	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54806	0239-OAK-CON-V-048 : OAKDALE POWER PLANT CON PUMP 1&2 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54807	0239-OAK-CON-V-049 : OAKDALE POWER PLANT CON PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54808	0239-OAK-CON-V-050 : OAKDALE POWER PLANT CON PUMP 1&2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54809	0239-OAK-CON-V-051 : OAKDALE POWER PLANT CON PUMP 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54810	0239-OAK-CON-V-052 : OAKDALE POWER PLANT CON PUMP 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54811	0239-OAK-CON-V-053 : OAKDALE POWER PLANT CON PUMP 1&2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54812	0239-OAK-CON-V-054 : OAKDALE POWER PLANT CON TRAP 2 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54813	0239-OAK-CON-V-055 : OAKDALE POWER PLANT CON TRAP 2 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54814	0239-OAK-CON-V-056 : OAKDALE POWER PLANT CON TRAP 2 PLUGGED	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54815	0239-OAK-CON-V-057 : OAKDALE POWER PLANT CON TRAP 2 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54816	0239-OAK-CON-V-058 : OAKDALE POWER PLANT CON TRAP 2 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54817	0239-OAK-CON-V-059 : OAKDALE POWER PLANT CON PLUGGED VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54818	0239-OAK-CON-V-060 : OAKDALE POWER PLANT CON INLET FROM CAMPUS ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54819	0239-OAK-CON-V-061 : OAKDALE POWER PLANT CON INLET FROM CAMPUS ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54820	0239-OAK-CON-V-062 : OAKDALE POWER PLANT CON TRAP 21&22 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54821	0239-OAK-CON-V-063 : OAKDALE POWER PLANT CON TRAP 21 BYPASS	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54822	0239-OAK-CON-V-067 : OAKDALE POWER PLANT CON TRAP 21 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54823	0239-OAK-CON-V-068 : OAKDALE POWER PLANT CON TRAP 21 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54827	0239-OAK-CON-V-069 : OAKDALE POWER PLANT CON TRAP 22 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54828	0239-OAK-CON-V-070 : OAKDALE POWER PLANT CON TRAP 22 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54829	0239-OAK-CON-V-071 : OAKDALE POWER PLANT CONDENSATE TRAP 22 BYPASS ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54830	0239-OAK-CON-V-076 : OAKDALE POWER PLANT CON PLUGGED VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54831	0239-OAK-CON-V-077 : OAKDALE POWER PLANT CON ISOLATION VALVE BASEMENT MAIN ROOM	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54832	0239-OAK-CON-V-078 : OAKDALE POWER PLANT CON PLUGGED VALVE BASEMENT MAIN ROOM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54833	0239-OAK-CON-V-079 : OAKDALE POWER PLANT CON ISOLATION VALVE BASEMENT MAIN ROOM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54834	0239-OAK-CON-V-080 : OAKDALE POWER PLANT CON ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54835	0239-OAK-CON-V-081 : OAKDALE POWER PLANT CON TRAP 9 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54836	0239-OAK-CON-V-082 : OAKDALE POWER PLANT CON DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54837	0239-OAK-CON-V-083 : OAKDALE POWER PLANT CON TRAP 48 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54838	0239-OAK-CON-V-084 : OAKDALE POWER PLANT CON TRAP 48 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54839	0239-OAK-CON-V-085 : OAKDALE POWER PLANT CONDENSATE TO	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54840	0239-OAK-CON-V-086 : OAKDALE POWER PLANT CONDENSATE TO	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54841	0239-OAK-CON-V-087 : OAKDALE POWER PLANT CON ISOLATION VALVE BOILER ROOM GROUND LEVEL	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54842	0239-OAK-CON-V-088 : OAKDALE POWER PLANT CON TRAP 49 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54843	0239-OAK-CON-V-089 : OAKDALE POWER PLANT CON TRAP 49 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54844	0239-OAK-CON-V-090 : OAKDALE POWER PLANT CON TRAP 49 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54845	0239-OAK-CON-V-091 : OAKDALE POWER PLANT CON TRAP 49 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54846	0239-OAK-CON-V-092 : OAKDALE POWER PLANT CON TRAP 50 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54847	0239-OAK-CON-V-093 : OAKDALE POWER PLANT CON TRAP 50 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54848	0239-OAK-CON-V-094 : OAKDALE POWER PLANT CON TRAP 50 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54849	0239-OAK-CON-V-095 : OAKDALE POWER PLANT CON TRAP 50 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54850	0239-OAK-CON-V-096 : OAKDALE POWER PLANT CON TRAP 50 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54851	0239-OAK-CON-V-097 : OAKDALE POWER PLANT CON TRAP 51 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54852	0239-OAK-CON-V-098 : OAKDALE POWER PLANT CON TRAP 51 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54853	0239-OAK-CON-V-099 : OAKDALE POWER PLANT CON TRAP 51 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54854	0239-OAK-CON-V-100 : OAKDALE POWER PLANT CON TRAP 52 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54855	0239-OAK-CON-V-101 : OAKDALE POWER PLANT CON TRAP 52 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54856	0239-OAK-CON-V-103 : OAKDALE POWER PLANT CON TRAP 54 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54857	0239-OAK-CON-V-104 : OAKDALE POWER PLANT CON TRAP 54 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54858	0239-OAK-CON-V-108 : OAKDALE POWER PLANT CON TRAP 55 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54859	0239-OAK-CON-V-109 : OAKDALE POWER PLANT CON TRAP 55 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54860	0239-OAK-CON-V-111 : OAKDALE POWER PLANT CON TRAP 56 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54861	0239-OAK-CON-V-112 : OAKDALE POWER PLANT CON TRAP 56 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54862	0239-OAK-CON-V-116 : OAKDALE POWER PLANT CON TRAP 53 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54863	0239-OAK-CON-V-117 : OAKDALE POWER PLANT CON TRAP 53 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54864	0239-OAK-CON-V-121 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54865	0239-OAK-CON-V-122 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54866	0239-OAK-CON-V-123 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54867	0239-OAK-CON-V-124 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54868	0239-OAK-CON-V-125 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54869	0239-OAK-CON-V-126 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54870	0239-OAK-CON-V-127 : OAKDALE POWER PLANT CON TRAP 47 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54871	0239-OAK-CON-V-128 : OAKDALE POWER PLANT CON PLUGGED VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54872	0239-OAK-CON-V-129 : OAKDALE POWER PLANT CON TRAP 46 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54873	0239-OAK-CON-V-130 : OAKDALE POWER PLANT CON TRAP 46 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54874	0239-OAK-CON-V-131 : OAKDALE POWER PLANT CON TRAP 46 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54875	0239-OAK-CON-V-135 : OAKDALE POWER PLANT CON TRAP 20 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54876	0239-OAK-CON-V-136 : OAKDALE POWER PLANT CON TRAP 20 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54877	0239-OAK-CON-V-137 : OAKDALE POWER PLANT CONDENSATE TRAP 20 BYPASS ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54878	0239-OAK-CON-V-140 : OAKDALE POWER PLANT CON TRAP 13-11, 45 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54879	0239-OAK-CON-V-141 : OAKDALE POWER PLANT CON TRAP 13&45 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54880	0239-OAK-CON-V-142 : OAKDALE POWER PLANT CON TRAP 13&45 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54881	0239-OAK-CON-V-143 : OAKDALE POWER PLANT CON TRAP 45 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54882	0239-OAK-CON-V-144 : OAKDALE POWER PLANT CON TRAP 12 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54883	0239-OAK-CON-V-145 : OAKDALE POWER PLANT CON TRAP 12 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54884	0239-OAK-CON-V-146 : OAKDALE POWER PLANT CON TRAP 12 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54885	0239-OAK-CON-V-147 : OAKDALE POWER PLANT CON TRAP 11 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54886	0239-OAK-CON-V-148 : OAKDALE POWER PLANT CON TRAP 11 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54887	0239-OAK-CON-V-149 : OAKDALE POWER PLANT CON PLUGGED VALVE MAIN ROOM BASEMENT	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54888	0239-OAK-CON-V-150 : OAKDALE POWER PLANT CON TRAP 10 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54889	0239-OAK-CON-V-151 : OAKDALE POWER PLANT CON TRAP 19 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54890	0239-OAK-CON-V-152 : OAKDALE POWER PLANT CON TRAP 19 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54891	0239-OAK-CON-V-153 : OAKDALE POWER PLANT CONDENSATE TRAP 19 BYPASS ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54892	0239-OAK-CON-V-156 : OAKDALE POWER PLANT CON DRAIN VALVE MAIN ROOM BASEMENT	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54893	0239-OAK-CON-V-157 : OAKDALE POWER PLANT CON TRAP PLUGGED VALVE BOILER ROOM FAN FLOOR	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54894	0239-OAK-CON-V-158 : OAKDALE POWER PLANT CON TRAP 42-44 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54895	0239-OAK-CON-V-159 : OAKDALE POWER PLANT CON TRAP 42 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54896	0239-OAK-CON-V-160 : OAKDALE POWER PLANT CON TRAP 42 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54897	0239-OAK-CON-V-163 : OAKDALE POWER PLANT CON TRAP 43 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54898	0239-OAK-CON-V-164 : OAKDALE POWER PLANT CON TRAP 43 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54899	0239-OAK-CON-V-167 : OAKDALE POWER PLANT CON TRAP 44 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54900	0239-OAK-CON-V-168 : OAKDALE POWER PLANT CON TRAP 44 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54901	0239-OAK-CON-V-174 : OAKDALE POWER PLANT CON ISOLATION VALVE BASEMENT MAIN ROOM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54902	0239-OAK-CON-V-175 : OAKDALE POWER PLANT CON TRAP 8 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54903	0239-OAK-CON-V-176 : OAKDALE POWER PLANT CON TRAP 8 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54904	0239-OAK-CON-V-177 : OAKDALE POWER PLANT CONDENSATE DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54905	0239-OAK-CON-V-178 : OAKDALE POWER PLANT CONDENSATE SYSTEM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54906	0239-OAK-CON-V-179 : OAKDALE POWER PLANT CON PLUGGED VALVE BOILER ROOM MAIN FLOOR	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54907	0239-OAK-CON-V-180 : OAKDALE POWER PLANT CON PLUGGED VALVE BOILER ROOM MAIN FLOOR	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54908	0239-OAK-CON-V-181 : OAKDALE POWER PLANT CON TRAP 4 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54909	0239-OAK-CON-V-182 : OAKDALE POWER PLANT CON TRAP 4 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54910	0239-OAK-CON-V-184 : OAKDALE POWER PLANT CON TRAP 18 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54911	0239-OAK-CON-V-185 : OAKDALE POWER PLANT CON TRAP 18 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54912	0239-OAK-CON-V-186 : OAKDALE POWER PLANT CON TRAP 18 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54913	0239-OAK-CON-V-187 : OAKDALE POWER PLANT CON TRAP 18 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54914	0239-OAK-CON-V-191 : OAKDALE POWER PLANT CON TRAP 1 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54915	0239-OAK-CON-V-192 : OAKDALE POWER PLANT CON TRAP 1 OUTLET DRAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54916	0239-OAK-CON-V-193 : OAKDALE POWER PLANT CON TRAP OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54917	0239-OAK-CON-V-194 : OAKDALE POWER PLANT CON TRAP 1 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54918	0239-OAK-CON-V-195 : OAKDALE POWER PLANT CON TRAP 1 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54919	0239-OAK-CON-V-196 : OAKDALE POWER PLANT CON TRAP 1 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54920	0239-OAK-CON-V-197 : OAKDALE POWER PLANT CON TRAP 1 INLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54921	0239-OAK-CON-V-198 : OAKDALE POWER PLANT CON DRAIN VALVE COAL	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54922	0239-OAK-CON-V-199 : OAKDALE POWER PLANT CON TRAP 57 ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54923	0239-OAK-CON-V-200 : OAKDALE POWER PLANT CON TRAP 57 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54924	0239-OAK-CON-V-205 : OAKDALE POWER PLANT CON TRAP 6 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54925	0239-OAK-CON-V-206 : OAKDALE POWER PLANT CON TRAP 6 BYPASS OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54926	0239-OAK-CON-V-207 : OAKDALE POWER PLANT CON TRAP 6 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54927	0239-OAK-CON-V-208 : OAKDALE POWER PLANT CON TRAP 5 BYPASS OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54928	0239-OAK-CON-V-210 : OAKDALE POWER PLANT CON TRAP 5 DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54929	0239-OAK-CON-V-211 : OAKDALE POWER PLANT CON TRAP 5 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54930	0239-OAK-CON-V-212 : OAKDALE POWER PLANT CON TRAP 7 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54931	0239-OAK-CON-V-213 : OAKDALE POWER PLANT CON TRAP 7 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54932	0239-OAK-CON-V-214 : OAKDALE POWER PLANT CON TRAP 7 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54933	0239-OAK-CON-V-219 : OAKDALE POWER PLANT CON TRAP 7 BYPASS OUTLET DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54934	0239-OAK-CON-V-220 : OAKDALE POWER PLANT CON TRAP 58 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54935	0239-OAK-CON-V-222 : OAKDALE POWER PLANT CON PLUGGED VALVE BOILER ROOM GROUND FLOOR	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54936	0239-OAK-CON-V-223 : OAKDALE POWER PLANT CON ISOLATION VALVE BASEMENT NORTH ROOM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54937	0239-OAK-CON-V-224 : OAKDALE POWER PLANT CON TRAP 14 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54938	0239-OAK-CON-V-225 : OAKDALE POWER PLANT CON TRAP 14 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54939	0239-OAK-CON-V-228 : OAKDALE POWER PLANT CON TRAP 14 BYPASS OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54940	0239-OAK-CON-V-229 : OAKDALE POWER PLANT CON TRAP 15 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54941	0239-OAK-CON-V-230 : OAKDALE POWER PLANT CON TRAP 15 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54942	0239-OAK-CON-V-233 : OAKDALE POWER PLANT CON TRAP 15 BYPASS OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54943	0239-OAK-CON-V-234 : OAKDALE POWER PLANT CON DRAIN VALVE BOILER ROOM SECOND FLOOR	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54944	0239-OAK-CON-V-235 : OAKDALE POWER PLANT CON PLUGGED VALVE BASEMENT NORTH ROOM	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54945	0239-OAK-CON-V-236 : OAKDALE POWER PLANT CON TRAP 17 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54946	0239-OAK-CON-V-237 : OAKDALE POWER PLANT CON TRAP 17 OUTLET	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54947	0239-OAK-CON-V-238 : OAKDALE POWER PLANT CONDENSATE TRAP 16 BYPASS ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54948	0239-OAK-CON-V-239 : OAKDALE POWER PLANT CON TRAP 16 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54949	0239-OAK-CON-V-240 : OAKDALE POWER PLANT CON TRAP 16 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54950	0239-OAK-CON-V-245 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54951	0239-OAK-CON-V-246 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54952	0239-OAK-CON-V-247 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54953	0239-OAK-CON-V-248 : OAKDALE POWER PLANT CON DRAIN VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54954	0239-OAK-CON-V-249 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54955	0239-OAK-CON-V-250 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54956	0239-OAK-CON-V-251 : OAKDALE POWER PLANT CON VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54957	0239-OAK-CON-V-252 : OAKDALE POWER PLANT CON DRAIN VALVE, CON TANK ROOM EAST SIDE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54958	0239-OAK-CON-V-253 : OAKDALE POWER PLANT CON TANK 1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54959	0239-OAK-CON-V-254 : OAKDALE POWER PLANT CON TANK 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54960	0239-OAK-CON-V-255 : OAKDALE POWER PLANT CON TANK 1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54961	0239-OAK-CON-V-256 : OAKDALE POWER PLANT CON TANK 1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54962	0239-OAK-CON-V-257 : OAKDALE POWER PLANT CON TANK 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54963	0239-OAK-CON-V-258 : OAKDALE POWER PLANT CON TANK 1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54964	0239-OAK-CON-V-259 : OAKDALE POWER PLANT CON SG 4 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54965	0239-OAK-CON-V-260 : OAKDALE POWER PLANT CON TANK 1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54966	0239-OAK-CON-V-261 : OAKDALE POWER PLANT CON SG 7 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54967	0239-OAK-CON-V-262 : OAKDALE POWER PLANT CON SG 6 OUTLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54968	0239-OAK-CON-V-263 : OAKDALE POWER PLANT CON SG 7 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54969	0239-OAK-CON-V-264 : OAKDALE POWER PLANT CON SG 6 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54970	0239-OAK-CON-V-265 : OAKDALE POWER PLANT CON SG 7 INLET DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54971	0239-OAK-CON-V-266 : OAKDALE POWER PLANT CON SG 6 INLET DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54972	0239-OAK-CON-V-267 : OAKDALE POWER PLANT CON TANK 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54973	0239-OAK-CON-V-270 : OAKDALE POWER PLANT CON SG 4 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54974	0239-OAK-CON-V-271 : OAKDALE POWER PLANT CON SG 4 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54975	0239-OAK-CON-V-272 : OAKDALE POWER PLANT CON FLT 1 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54976	0239-OAK-CON-V-273 : OAKDALE POWER PLANT CON FLT 1 INLET DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54977	0239-OAK-CON-V-274 : OAKDALE POWER PLANT CON FLT 1 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54978	0239-OAK-CON-V-275 : OAKDALE POWER PLANT CON TANK 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54979	0239-OAK-CON-V-276 : OAKDALE POWER PLANT CON TANK 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54980	0239-OAK-CON-V-277 : OAKDALE POWER PLANT CON TANK 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54981	0239-OAK-CON-V-278 : OAKDALE POWER PLANT CON FLT 2 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54982	0239-OAK-CON-V-279 : OAKDALE POWER PLANT CON FLT 2 INLET DRAIN	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54983	0239-OAK-CON-V-280 : OAKDALE POWER PLANT CON FLT 2 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54984	0239-OAK-CON-V-281 : OAKDALE POWER PLANT CON SG 5 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54985	0239-OAK-CON-V-282 : OAKDALE POWER PLANT CON SG 5 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54986	0239-OAK-CON-V-283 : OAKDALE POWER PLANT CON SYSTEM VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
54987	0239-OAK-CON-V-285 : OAKDALE POWER PLANT CON SG 5 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54988	0239-OAK-CON-V-286 : OAKDALE POWER PLANT CON TANK 2 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54989	0239-OAK-CON-V-287 : OAKDALE POWER PLANT CON TANK 1 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54990	0239-OAK-CON-V-288 : OAKDALE POWER PLANT CON TANK 1 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54991	0239-OAK-CON-V-289 : OAKDALE POWER PLANT CON TANK 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54992	0239-OAK-CON-V-290 : OAKDALE POWER PLANT CON TANK 1 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54993	0239-OAK-CON-V-291 : OAKDALE POWER PLANT CON TANK 1&2 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54994	0239-OAK-CON-V-292 : OAKDALE POWER PLANT CON TANK 2 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54995	0239-OAK-CON-V-293 : OAKDALE POWER PLANT CON TANK 2 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54996	0239-OAK-CON-V-294 : OAKDALE POWER PLANT CON TANK 2 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54997	0239-OAK-CON-V-295 : OAKDALE POWER PLANT CON ISOLATION VALVE BETWEEN PUMP 6&7	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54998	0239-OAK-CON-V-296 : OAKDALE POWER PLANT CON TANK 1&2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
54999	0239-OAK-CON-V-297 : OAKDALE POWER PLANT CON TANK 1 OUTLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55000	0239-OAK-CON-V-298 : OAKDALE POWER PLANT CON PUMP 5 INLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55001	0239-OAK-CON-V-299 : OAKDALE POWER PLANT CON PUMP 5 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55002	0239-OAK-CON-V-300 : OAKDALE POWER PLANT CON PUMP 6 INLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55003	0239-OAK-CON-V-301 : OAKDALE POWER PLANT CON PUMP 6 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55004	0239-OAK-CON-V-302 : OAKDALE POWER PLANT CON PUMP 7 INLET	SERIALIZED	VALVE BUTTERFLY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55005	0239-OAK-CON-V-303 : OAKDALE POWER PLANT CON PUMP 7 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55006	0239-OAK-CON-V-304 : OAKDALE POWER PLANT CON PLUGGED DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55007	0239-OAK-CON-V-305 : OAKDALE POWER PLANT CON PLUGGED LINE OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55008	0239-OAK-CON-V-306 : OAKDALE POWER PLANT CON PUMP 5 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55009	0239-OAK-CON-V-307 : OAKDALE POWER PLANT CON PG 5 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55010	0239-OAK-CON-V-308 : OAKDALE POWER PLANT CON PG 5 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55011	0239-OAK-CON-V-309 : OAKDALE POWER PLANT CON PG 5 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55012	0239-OAK-CON-V-310 : OAKDALE POWER PLANT CON PUMP 6 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55013	0239-OAK-CON-V-311 : OAKDALE POWER PLANT CON PUMP 6 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55014	0239-OAK-CON-V-312 : OAKDALE POWER PLANT CON PUMP 6 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55015	0239-OAK-CON-V-313 : OAKDALE POWER PLANT CON PUMP 5&6 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55016	0239-OAK-CON-V-314 : OAKDALE POWER PLANT CON ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55017	0239-OAK-CON-V-315 : OAKDALE POWER PLANT CON ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55018	0239-OAK-CON-V-316 : OAKDALE POWER PLANT CON PG 3 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55019	0239-OAK-CON-V-317 : OAKDALE POWER PLANT CON PG 3 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55020	0239-OAK-CON-V-318 : OAKDALE POWER PLANT CON PUMP 7 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55021	0239-OAK-CON-V-319 : OAKDALE POWER PLANT CON PUMP 7 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55022	0239-OAK-CON-V-320 : OAKDALE POWER PLANT CON PUMP 7 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55023	0239-OAK-CON-V-321 : OAKDALE POWER PLANT CON PG 4 INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55024	0239-OAK-CON-V-322 : OAKDALE POWER PLANT CON PUMP 5, 6, & 7 OUTLET DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55025	0239-OAK-CON-V-323 : OAKDALE POWER PLANT CON PUMP 5, 6, & 7 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55026	0239-OAK-CON-V-324 : OAKDALE POWER PLANT CON POL 1A & 1B INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55027	0239-OAK-CON-V-325 : OAKDALE POWER PLANT CON ISOLATION VALVE, CON TANK ROOM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55028	0239-OAK-CON-V-326 : OAKDALE POWER PLANT CON PG 6 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55029	0239-OAK-CON-V-327 : OAKDALE POWER PLANT CON ISOLATION VALVE, CON TANK ROOM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55030	0239-OAK-CON-V-328 : OAKDALE POWER PLANT CON PG 7 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55031	0239-OAK-CON-V-329 : OAKDALE POWER PLANT CON PG 7 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55032	0239-OAK-CON-V-330 : OAKDALE POWER PLANT CON PG 7 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55033	0239-OAK-CON-V-331 : OAKDALE POWER PLANT CON PG 7 BYPASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55034	0239-OAK-CON-V-332 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55035	0239-OAK-CON-V-333 : OAKDALE POWER PLANT CON PG 12 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55036	0239-OAK-CON-V-334 : OAKDALE POWER PLANT CON PG 12 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55037	0239-OAK-CON-V-335 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55038	0239-OAK-CON-V-336 : OAKDALE POWER PLANT CON PG 11 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55039	0239-OAK-CON-V-337 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55040	0239-OAK-CON-V-338 : OAKDALE POWER PLANT CON POL 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55041	0239-OAK-CON-V-339 : OAKDALE POWER PLANT CON POL 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55042	0239-OAK-CON-V-340 : OAKDALE POWER PLANT CON POL 1A DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55043	0239-OAK-CON-V-341 : OAKDALE POWER PLANT CON POL 1A INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55044	0239-OAK-CON-V-342 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55045	0239-OAK-CON-V-343 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55046	0239-OAK-CON-V-344 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55047	0239-OAK-CON-V-345 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55048	0239-OAK-CON-V-346 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55049	0239-OAK-CON-V-347 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55050	0239-OAK-CON-V-348 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55051	0239-OAK-CON-V-349 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55052	0239-OAK-CON-V-350 : OAKDALE POWER PLANT CON POL 1A&1B	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55053	0239-OAK-CON-V-351 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55054	0239-OAK-CON-V-352 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55055	0239-OAK-CON-V-353 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55056	0239-OAK-CON-V-354 : OAKDALE POWER PLANT CON POL 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55057	0239-OAK-CON-V-355 : OAKDALE POWER PLANT CON POL 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55058	0239-OAK-CON-V-356 : OAKDALE POWER PLANT CON POL 1B DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55059	0239-OAK-CON-V-357 : OAKDALE POWER PLANT CON DRAIN VALVE OFF	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55060	0239-OAK-CON-V-358 : OAKDALE POWER PLANT CON ISOLATION VALVE OFF OF CON POLS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55061	0239-OAK-CON-V-359 : OAKDALE POWER PLANT CON SC 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55062	0239-OAK-CON-V-360 : OAKDALE POWER PLANT CON SC 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55063	0239-OAK-CON-V-361 : OAKDALE POWER PLANT CON SC 2 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55064	0239-OAK-CON-V-362 : OAKDALE POWER PLANT CON SC 2 OUTLET DRAIN VALVE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55065	0239-OAK-CON-V-363 : OAKDALE POWER PLANT CON SC 2 OUTLET DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55066	0239-OAK-CON-V-364 : OAKDALE POWER PLANT CON SC 3 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55067	0239-OAK-CON-V-366 : OAKDALE POWER PLANT CON ISOLATION VALVE,	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55068	0239-OAK-CON-V-365 : OAKDALE POWER PLANT CON SC 3 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55069	0239-OAK-CON-V-367 : OAKDALE POWER PLANT CON ISOLATION VALVE,	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55070	0239-OAK-CON-V-368 : OAKDALE POWER PLANT CON ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55071	0239-OAK-CON-V-369 : OAKDALE POWER PLANT OUT TO CAMPUS CON ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55072	0239-OAK-CON-V-370 : OAKDALE POWER PLANT CON PG 13 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55073	0239-OAK-CON-V-371 : OAKDALE POWER PLANT CON PG 13 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55074	0239-OAK-CON-V-372 : OAKDALE POWER PLANT CON FM 1 INLET DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55075	0239-OAK-CON-V-373 : OAKDALE POWER PLANT CON PG 14 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55076	0239-OAK-CON-V-374 : OAKDALE POWER PLANT CON PG 14 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55077	0239-OAK-CON-YS-001 : OAKDALE POWER PLANT CON TRAP 23 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55078	0239-OAK-CON-YS-002 : OAKDALE POWER PLANT CON PUMP 3 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55079	0239-OAK-CON-YS-003 : OAKDALE POWER PLANT CON PUMP 4 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55080	0239-OAK-CON-YS-006 : OAKDALE POWER PLANT CON TRAP 9 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55081	0239-OAK-CON-YS-007 : OAKDALE POWER PLANT CON TRAP 49 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55082	0239-OAK-CON-YS-008 : OAKDALE POWER PLANT CON TRAP 50 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55083	0239-OAK-CON-YS-009 : OAKDALE POWER PLANT CON TRAP 50 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55084	0239-OAK-CON-YS-010 : OAKDALE POWER PLANT CON TRAP 51 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55085	0239-OAK-CON-YS-011 : OAKDALE POWER PLANT CON TRAP 51 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55086	0239-OAK-CON-YS-012 : OAKDALE POWER PLANT CON TRAP 56 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55087	0239-OAK-CON-YS-013 : OAKDALE POWER PLANT CON TRAP 46 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55088	0239-OAK-CON-YS-014 : OAKDALE POWER PLANT CON TRAP 20 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55089	0239-OAK-CON-YS-017 : OAKDALE POWER PLANT CON TRAP 8 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55090	0239-OAK-CON-YS-018 : OAKDALE POWER PLANT CON TRAP 18 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55091	0239-OAK-CON-YS-022 : OAKDALE POWER PLANT CON TRAP 55 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55092	0239-OAK-CON-YS-025 : OAKDALE POWER PLANT CON TRAP 54 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55093	0239-OAK-CON-YS-026 : OAKDALE POWER PLANT CON TRAP 53 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55094	0239-OAK-CON-YS-028 : OAKDALE POWER PLANT CON TRAP 52 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55095	0239-OAK-CON-YS-030 : OAKDALE POWER PLANT CON TRAP 49 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55096	0239-OAK-CON-YS-031 : OAKDALE POWER PLANT CON AOV 3&4 INLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55097	0239-OAK-CON-YS-032 : OAKDALE POWER PLANT CON AOV 3 OUTLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55098	0239-OAK-CON-YS-033 : OAKDALE POWER PLANT CON AOV 4 OUTLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55099	0239-OAK-CON-YS-034 : OAKDALE POWER PLANT CON SG 4 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55100	0239-OAK-CON-YS-035 : OAKDALE POWER PLANT CON SG 7&6 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55101	0239-OAK-CON-YS-036 : OAKDALE POWER PLANT CON SG 5 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55102	0239-OAK-CON-YS-037 : OAKDALE POWER PLANT CON PUMP 5 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55103	0239-OAK-CON-YS-038 : OAKDALE POWER PLANT CON PUMP 6 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55104	0239-OAK-CON-YS-039 : OAKDALE POWER PLANT CON PUMP 7 INLET WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55105	0239-OAK-CON-YS-040 : OAKDALE POWER PLANT CON PLUGGED VALVE OUTLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55106	0239-OAK-CON-YS-041 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55107	0239-OAK-CON-YS-042 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55108	0239-OAK-CON-YS-043 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55110	0239-OAK-CON-YS-045 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55111	0239-OAK-CON-YS-046 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55112	0239-OAK-CON-YS-047 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55113	0239-OAK-CON-YS-048 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55114	0239-OAK-CON-YS-049 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55115	0239-OAK-CON-YS-050 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55116	0239-OAK-CON-YS-051 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55117	0239-OAK-CON-YS-052 : OAKDALE POWER PLANT CON WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55147	0239-OAK-AIR-CHK-001 : OAKDALE POWER PLANT CHECK VALVE FOR UREA	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55148	0239-OAK-AIR-CHK-002 : OAKDALE POWER PLANT A/C #3 OUTLET CHECK	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55149	0239-OAK-AIR-CHK-003 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER SOUTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55150	0239-OAK-AIR-CHK-004 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER SOUTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55151	0239-OAK-AIR-CHK-005 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER SOUTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55152	0239-OAK-AIR-CHK-006 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER SOUTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55153	0239-OAK-AIR-CHK-007 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER SOUTH DRAIN CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55154	0239-OAK-AIR-CHK-008 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER NORTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55155	0239-OAK-AIR-CHK-009 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER NORTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55156	0239-OAK-AIR-CHK-010 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER NORTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55157	0239-OAK-AIR-CHK-011 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER NORTH CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55158	0239-OAK-AIR-CHK-012 : OAKDALE POWER PLANT AIR SYSTEM HANKISON AIR DRYER NORTH DRAIN CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55159	0239-OAK-AIR-CHK-013 : OAKDALE POWER PLANT CHECK VALVE FOR A/C SYSTEM PRESSURE GAUGE	SERIALIZED	VALVE CHECK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55160	0239-OAK-AIR-CU-001 : OAKDALE POWER PLANT AIR DRYER #1 CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55161	0239-OAK-AIR-CU-002 : OAKDALE POWER PLANT AIR DRYER #2 CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55162	0239-OAK-AIR-CU-003 : OAKDALE POWER PLANT AIR DRYER #3 CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55163	0239-OAK-AIR-CU-004 : OAKDALE POWER PLANT FISHER CONTROLS AIR SYSTEM CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55164	0239-OAK-AIR-CU-005 : OAKDALE POWER PLANT FISHER CONTROLS AIR SYSTEM CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55165	0239-OAK-AIR-DRY-001 : OAKDALE POWER PLANT AIR SYSTEM DRYER #1	SERIALIZED	AIR DRYER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55166	0239-OAK-AIR-DRY-002 : OAKDALE POWER PLANT AIR SYSTEM DRYER #2	SERIALIZED	AIR DRYER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55167	0239-OAK-AIR-DRY-003 : OAKDALE POWER PLANT AIR SYSTEM DRYER #3	SERIALIZED	AIR DRYER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55168	0239-OAK-AIR-FIL-001 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR SYSTEM DRYER COALEISING FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55169	0239-OAK-AIR-FIL-002 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR SYSTEM DRYER CHARCOAL FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55170	0239-OAK-AIR-FIL-003 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR SYSTEM DRYER COALEISING FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55171	0239-OAK-AIR-FIL-004 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR SYSTEM DRYER CHARCOAL FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55172	0239-OAK-AIR-FIL-005 : OAKDALE POWER PLANT AIR DRYER #3 INLET FILTER WITH MOISTURE DRAIN OFF	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55173	0239-OAK-AIR-FIL-006 : OAKDALE POWER PLANT AIR DRYER #3 OUTLET	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55174	0239-OAK-AIR-FIL-007 : OAKDALE POWER PLANT AIR FILTER FOR KICE BAGHOUSE PULSER AIR	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55175	0239-OAK-AIR-FIL-008 : OAKDALE POWER PLANT BIOMASS BOILER #1 GASIFER OUTLET AOV REGULATOR AIR	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55176	0239-OAK-AIR-FIL-009 : OAKDALE POWER PLANT EQUIPMENT NUMBER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55177	0239-OAK-AIR-FIL-010 : OAKDALE POWER PLANT AUTO JET UREA SPRAY CONTOL AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55178	0239-OAK-AIR-FIL-011 : OAKDALE POWER PLANT AIR COMPRESSOR #3	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55179	0239-OAK-AIR-FIL-014 : OAKDALE POWER PLANT AIR COMPRESSOR #3	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55180	0239-OAK-AIR-FIL-015 : OAKDALE POWER PLANT A/C #1 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55181	0239-OAK-AIR-FIL-016 : OAKDALE POWER PLANT A/C #1 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55182	0239-OAK-AIR-FIL-017 : OAKDALE POWER PLANT A/C #2 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55183	0239-OAK-AIR-FIL-018 : OAKDALE POWER PLANT A/C #2 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55184	0239-OAK-AIR-FIL-019 : OAKDALE POWER PLANT PAPER GARAGE AIR	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55185	0239-OAK-AIR-FIL-020 : OAKDALE POWER PLANT AIR DRYER #1 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55186	0239-OAK-AIR-FIL-021 : OAKDALE POWER PLANT AIR DRYER #1 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55187	0239-OAK-AIR-FIL-022 : OAKDALE POWER PLANT AIR DRYER #1 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55188	0239-OAK-AIR-FIL-023 : OAKDALE POWER PLANT AIR DRYER #2 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55189	0239-OAK-AIR-FIL-024 : OAKDALE POWER PLANT AIR DRYER #2 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55190	0239-OAK-AIR-FIL-025 : OAKDALE POWER PLANT AIR DRYER #2 AIR FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55191	0239-OAK-AIR-FLT-004 : OAKDALE POWER PLANT AIR SYSTEM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55192	0239-OAK-AIR-FLT-005 : OAKDALE POWER PLANT AIR SYSTEM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55193	0239-OAK-AIR-HB-001 : OAKDALE POWER PLANT HOSE BIB #1 FAN FLOOR	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55194	0239-OAK-AIR-HB-002 : OAKDALE POWER PLANT HOSE BIB #2 UPPER BLR1	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55195	0239-OAK-AIR-HB-003 : OAKDALE POWER PLANT HOSE BIB #3 BIOMASS	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55196	0239-OAK-AIR-HB-004 : OAKDALE POWER PLANT HOSE BIB #4 FAN FLOOR	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55197	0239-OAK-AIR-HB-005 : OAKDALE POWER PLANT HOSE BIB #5 BOILER #1	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55198	0239-OAK-AIR-HB-006 : OAKDALE POWER PLANT HOSE BIB #6 BASEMENT WEST OF HW HX	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55199	0239-OAK-AIR-HB-007 : OAKDALE POWER PLANT HOSE BIB #7 KICE FAN	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55200	0239-OAK-AIR-HB-008 : OAKDALE POWER PLANT HOSE BIB #8 KICE DUST COLLECTOR ROOM	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55201	0239-OAK-AIR-HB-009 : OAKDALE POWER PLANT HOSE BIB #9 GRIZZLY	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55202	0239-OAK-AIR-HB-011 : OAKDALE POWER PLANT HOSE BIB #11	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55203	0239-OAK-AIR-HB-012 : OAKDALE POWER PLANT HOSE BIB #12	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55204	0239-OAK-AIR-HB-013 : OAKDALE POWER PLANT HOSE BIB #13	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55205	0239-OAK-AIR-HB-014 : OAKDALE POWER PLANT HOSE BIB #14	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55206	0239-OAK-AIR-HB-015 : OAKDALE POWER PLANT HOSE BIB #15	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55207	0239-OAK-AIR-HB-016 : OAKDALE POWER PLANT HOSE BIB #16	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55208	0239-OAK-AIR-HB-017 : OAKDALE POWER PLANT HOSE BIB #17	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55209	0239-OAK-AIR-HB-018 : OAKDALE POWER PLANT HOSE BIB #18	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55210	0239-OAK-AIR-HB-019 : OAKDALE POWER PLANT HOSE BIB #19	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55211	0239-OAK-AIR-HB-020 : OAKDALE POWER PLANT HOSE BIB #20	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55212	0239-OAK-AIR-HB-021 : OAKDALE POWER PLANT HOSE BIB #21	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55213	0239-OAK-AIR-HB-022 : OAKDALE POWER PLANT HOSE BIB #22	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55214	0239-OAK-AIR-HB-023 : OAKDALE POWER PLANT HOSE BIB #23	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55215	0239-OAK-AIR-HB-024 : OAKDALE POWER PLANT HOSE BIB #24	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55216	0239-OAK-AIR-HB-025 : OAKDALE POWER PLANT HOSE BIB #25	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55217	0239-OAK-AIR-LUB-001 : OAKDALE POWER PLANT BIOMASS BOILER #1 GASIFER OUTLET AOV AIR LUBRICATOR	SERIALIZED	LUBRICATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55218	0239-OAK-AIR-PG-001 : OAKDALE POWER PLANT KICE BUILDING HVAC CONTROLS AIR DRYER INLET PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55219	0239-OAK-AIR-PG-002 : OAKDALE POWER PLANT AIR FILTER #3 INLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55220	0239-OAK-AIR-PG-003 : OAKDALE POWER PLANT AIR FILTER #3 OUTLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55221	0239-OAK-AIR-PG-004 : OAKDALE POWER PLANT KICE BUILDING HVAC CONTROLS AIR REGULATOR PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55222	0239-OAK-AIR-PG-005 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55223	0239-OAK-AIR-PG-006 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55224	0239-OAK-AIR-PG-007 : OAKDALE POWER PLANT BOILER #1 SOOT BLOWING AIR RECEIVER PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55225	0239-OAK-AIR-PG-008 : OAKDALE POWER PLANT AUTO JET UREA AIR SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55226	0239-OAK-AIR-PG-009 : OAKDALE POWER PLANT KICE BAGHOUSE PULSOR AIR REGULATOR #3 SUPPLY PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55227	0239-OAK-AIR-PG-010 : OAKDALE POWER PLANT AUTO JET UREA AIR REGULATOR SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55228	0239-OAK-AIR-PG-011 : OAKDALE POWER PLANT CAMPUS STEAM DISTRIBUTION AOV AIR PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55229	0239-OAK-AIR-PG-012 : OAKDALE POWER PLANT BLR1 METER BIN DIVERTER GATE AIR SUPPLY REGULATOR	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55230	0239-OAK-AIR-PG-013 : OAKDALE POWER PLANT AIR DRYER #3 INLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55231	0239-OAK-AIR-PG-014 : OAKDALE POWER PLANT AIR DRYER #3 LEFT CHAMBER PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55232	0239-OAK-AIR-PG-015 : OAKDALE POWER PLANT AIR DRYER #3 RIGHT CHAMBER PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55233	0239-OAK-AIR-PG-016 : OAKDALE POWER PLANT AIR DRYER #3 PURGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55234	0239-OAK-AIR-PG-017 : OAKDALE POWER PLANT AIR DRYER #3 OUTLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55235	0239-OAK-AIR-PG-018 : OAKDALE POWER PLANT BLR1 GASIFIER OUTLET AOV REGULATOR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55236	0239-OAK-AIR-PG-019 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55237	0239-OAK-AIR-PG-020 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55238	0239-OAK-AIR-PG-021 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55239	0239-OAK-AIR-PG-022 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55240	0239-OAK-AIR-PG-023 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55241	0239-OAK-AIR-PG-024 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55242	0239-OAK-AIR-PG-025 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55243	0239-OAK-AIR-PG-026 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55244	0239-OAK-AIR-PG-027 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55245	0239-OAK-AIR-PG-028 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55246	0239-OAK-AIR-PG-029 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55247	0239-OAK-AIR-PG-030 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55248	0239-OAK-AIR-PG-031 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55249	0239-OAK-AIR-PG-032 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55250	0239-OAK-AIR-PG-033 : OAKDALE POWER PLANT AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55251	0239-OAK-AIR-PT-001 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55252	0239-OAK-AIR-PT-002 : OAKDALE POWER PLANT AIR PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55253	0239-OAK-AIR-PT-003 : OAKDALE POWER PLANT AIR PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55254	0239-OAK-AIR-REG-001 : OAKDALE POWER PLANT KICE BUILDING HVAC CONTROL AIR DRYER INLET REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55255	0239-OAK-AIR-REG-002 : OAKDALE POWER PLANT KICE BUILDING HVAC CONTROL AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55256	0239-OAK-AIR-REG-003 : OAKDALE POWER PLANT KICE BAGHOUSE PULSOR AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55257	0239-OAK-AIR-REG-004 : OAKDALE POWER PLANT BLR1 METERING BIN AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55258	0239-OAK-AIR-REG-005 : OAKDALE POWER PLANT BLR1 SKY VALVE AOV	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55259	0239-OAK-AIR-REG-006 : OAKDALE POWER PLANT BLR1 GASIFIER OUTLET	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55260	0239-OAK-AIR-REG-007 : OAKDALE POWER PLANT BLR1 FEEDWATER AOV	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55261	0239-OAK-AIR-REG-008 : OAKDALE POWER PLANT AUTO JET SPRAY	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55262	0239-OAK-AIR-REG-009 : OAKDALE POWER PLANT AIR DRYER #3 PURGE AIR PRESSURE REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55263	0239-OAK-AIR-REG-010 : OAKDALE POWER PLANT NOT IN USE	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55264	0239-OAK-AIR-REG-011 : OAKDALE POWER PLANT NOT IN USE	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55265	0239-OAK-AIR-REG-012 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55266	0239-OAK-AIR-REG-013 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55267	0239-OAK-AIR-REG-014 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55268	0239-OAK-AIR-REG-015 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55269	0239-OAK-AIR-REG-016 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55270	0239-OAK-AIR-REG-017 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55271	0239-OAK-AIR-REG-018 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55272	0239-OAK-AIR-REG-019 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55273	0239-OAK-AIR-REG-020 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55274	0239-OAK-AIR-REG-021 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55275	0239-OAK-AIR-REG-022 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55276	0239-OAK-AIR-REG-023 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55277	0239-OAK-AIR-REG-024 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55278	0239-OAK-AIR-REG-025 : OAKDALE POWER PLANT AIR REGULATOR	SERIALIZED	REGULATOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55279	0239-OAK-AIR-RV-001 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55280	0239-OAK-AIR-RV-002 : OAKDALE POWER PLANT KICE BAGHOUSE PULSOR	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55281	0239-OAK-AIR-RV-003 : OAKDALE POWER PLANT AIR RECEIVER TANK #1	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55282	0239-OAK-AIR-RV-004 : OAKDALE POWER PLANT AIR DRYER #3 INLET	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55283	0239-OAK-AIR-RV-005 : OAKDALE POWER PLANT AIR DRYER #3 OUTLET	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55284	0239-OAK-AIR-RV-006 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55285	0239-OAK-AIR-RV-007 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55286	0239-OAK-AIR-RV-008 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55287	0239-OAK-AIR-RV-009 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55288	0239-OAK-AIR-RV-010 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55289	0239-OAK-AIR-RV-011 : OAKDALE POWER PLANT AIR RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55290	0239-OAK-AIR-SCR-001 : OAKDALE POWER PLANT AIR SYSTEM AIR	SERIALIZED	COMPRESSOR AIR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55291	0239-OAK-AIR-SCR-002 : OAKDALE POWER PLANT AIR SYSTEM AIR	SERIALIZED	COMPRESSOR AIR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55292	0239-OAK-AIR-SCR-003 : OAKDALE POWER PLANT AIR SYSTEM AIR	SERIALIZED	COMPRESSOR AIR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55293	0239-OAK-AIR-SG-001 : OAKDALE POWER PLANT AIR SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55294	0239-OAK-AIR-SG-002 : OAKDALE POWER PLANT AIR SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55295	0239-OAK-AIR-SOV-001 : OAKDALE POWER PLANT AUTO JET UREA SPRAY	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55296	0239-OAK-AIR-SOV-002 : OAKDALE POWER PLANT AIR COMPRESSOR MOISTURE DRAIN FROM FILTER #11 SOV	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55297	0239-OAK-AIR-SOV-003 : OAKDALE POWER PLANT AIR DRYER #3 RIGHT TOWER PURGE SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55298	0239-OAK-AIR-SOV-004 : OAKDALE POWER PLANT AIR DRYER #3 LEFT TOWER PURGE SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55299	0239-OAK-AIR-SOV-005 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55300	0239-OAK-AIR-SOV-006 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55301	0239-OAK-AIR-SOV-007 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55302	0239-OAK-AIR-SOV-008 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55303	0239-OAK-AIR-SOV-009 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55304	0239-OAK-AIR-SOV-010 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55305	0239-OAK-AIR-SOV-011 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55306	0239-OAK-AIR-SOV-012 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55307	0239-OAK-AIR-SOV-013 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55308	0239-OAK-AIR-SOV-014 : OAKDALE POWER PLANT AIR SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55309	0239-OAK-AIR-STR-001 : OAKDALE POWER PLANT KICE FAN ROOM UNIT HEATER MOTOR STARTER	SERIALIZED	STARTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55310	0239-OAK-AIR-STR-002 : OAKDALE POWER PLANT KICE DUST COLLECTOR ROOM UNIT HEATER MOTOR STARTER	SERIALIZED	STARTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55311	0239-OAK-AIR-STR-003 : OAKDALE POWER PLANT BIOMASS STORAGE AREA UNIT HEATER MOTOR STARTER	SERIALIZED	STARTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55312	0239-OAK-AIR-TNK-001 : OAKDALE POWER PLANT AIR RECEIVER TANK #1	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55313	0239-OAK-AIR-TNK-002 : OAKDALE POWER PLANT BLR1 SOOT BLOWING	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55314	0239-OAK-AIR-TNK-007 : OAKDALE POWER PLANT HANKINSON AIR DRYER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55315	0239-OAK-AIR-TNK-008 : OAKDALE POWER PLANT HANKINSON AIR DRYER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55316	0239-OAK-AIR-TNK-009 : OAKDALE POWER PLANT HANKINSON AIR DRYER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55317	0239-OAK-AIR-TNK-010 : OAKDALE POWER PLANT HANKINSON AIR DRYER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55318	0239-OAK-AIR-TRAP-001 : OAKDALE POWER PLANT AIR RECEIVER #1 TANK	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55319	0239-OAK-AIR-TRAP-002 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55320	0239-OAK-AIR-TRAP-003 : OAKDALE POWER PLANT AIR SYSTEM DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55321	0239-OAK-AIR-TRAP-004 : OAKDALE POWER PLANT A/C #2 DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55322	0239-OAK-AIR-TRAP-005 : OAKDALE POWER PLANT AIR SYSTEM DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55323	0239-OAK-AIR-TRAP-006 : OAKDALE POWER PLANT AIR SYSTEM DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55324	0239-OAK-AIR-TRAP-007 : OAKDALE POWER PLANT AIR SYSTEM DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55325	0239-OAK-AIR-TRAP-008 : OAKDALE POWER PLANT AIR SYSTEM DRAIN TRAP	SERIALIZED	TRAP	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55326	0239-OAK-AIR-V-001 : OAKDALE POWER PLANT WESTERN CAMPUS AIR SUPPLY MAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55327	0239-OAK-AIR-V-002 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55328	0239-OAK-AIR-V-003 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55329	0239-OAK-AIR-V-004 : OAKDALE POWER PLANT WESTERN CAMPUS AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55330	0239-OAK-AIR-V-005 : OAKDALE POWER PLANT OUTGOING AIR SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55331	0239-OAK-AIR-V-006 : OAKDALE POWER PLANT HOSE BIB #11 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55332	0239-OAK-AIR-V-007 : OAKDALE POWER PLANT AIR DRYER #2 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55333	0239-OAK-AIR-V-008 : OAKDALE POWER PLANT AIR SYSTEM PLUG ISOLATION VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55334	0239-OAK-AIR-V-009 : OAKDALE POWER PLANT AIR SYSTEM CROSSOVER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55335	0239-OAK-AIR-V-010 : OAKDALE POWER PLANT AIR SYSTEM PLUG ISOLATION VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55336	0239-OAK-AIR-V-011 : OAKDALE POWER PLANT AIR SYSTEM PLUG ISOLATION VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55337	0239-OAK-AIR-V-012 : OAKDALE POWER PLANT AIR DRYER #1/2 SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55338	0239-OAK-AIR-V-013 : OAKDALE POWER PLANT AIR DRYER #1 OUTLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55339	0239-OAK-AIR-V-014 : OAKDALE POWER PLANT AIR DRYER #1 INLET ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55340	0239-OAK-AIR-V-015 : OAKDALE POWER PLANT AIR DRYER #1/2 INLET CROSSTIE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55341	0239-OAK-AIR-V-016 : OAKDALE POWER PLANT AIR SYSTEM PLUG ISOLATION VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55342	0239-OAK-AIR-V-017 : OAKDALE POWER PLANT AIR DRYER #1/2 PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55343	0239-OAK-AIR-V-018 : OAKDALE POWER PLANT AIR DRYER #1/2 SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55344	0239-OAK-AIR-V-019 : OAKDALE POWER PLANT AIR DRYER #1/2 SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55345	0239-OAK-AIR-V-020 : OAKDALE POWER PLANT TRAP #5 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55346	0239-OAK-AIR-V-021 : OAKDALE POWER PLANT TRAP #5 DRAIN ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55347	0239-OAK-AIR-V-022 : OAKDALE POWER PLANT CHILLED WATER PLANT AIR SUPPLY MAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55348	0239-OAK-AIR-V-023 : OAKDALE POWER PLANT A/C #1/2 AND A/C #3 SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55349	0239-OAK-AIR-V-024 : OAKDALE POWER PLANT A/C #1 FILTER #15/16 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55350	0239-OAK-AIR-V-025 : OAKDALE POWER PLANT A/C #1 FILTER #15/16 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55351	0239-OAK-AIR-V-026 : OAKDALE POWER PLANT A/C #1 FILTER #15/16 BY PASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55352	0239-OAK-AIR-V-027 : OAKDALE POWER PLANT A/C #1/2 CROSSTIE VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55353	0239-OAK-AIR-V-028 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG PLUG	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55354	0239-OAK-AIR-V-029 : OAKDALE POWER PLANT A/C #2 FILTER #17/18 BY PASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55355	0239-OAK-AIR-V-030 : OAKDALE POWER PLANT A/C #2 FILTER #17/18 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55356	0239-OAK-AIR-V-031 : OAKDALE POWER PLANT A/C #2 FILTER #17/18 ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55357	0239-OAK-AIR-V-032 : OAKDALE POWER PLANT A/C #2 OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55358	0239-OAK-AIR-V-033 : OAKDALE POWER PLANT A/C #2 OUTLET TIE IN ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55359	0239-OAK-AIR-V-034 : OAKDALE POWER PLANT A/C #2 DRAIN PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55360	0239-OAK-AIR-V-035 : OAKDALE POWER PLANT A/C #2 DRAIN TRAP #4	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55361	0239-OAK-AIR-V-036 : OAKDALE POWER PLANT MAKE UP WATER SYSTEM AOV MAIN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55362	0239-OAK-AIR-V-037 : OAKDALE POWER PLANT AIR SYSTEM PRESSURE GAUGE #21 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55363	0239-OAK-AIR-V-038 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55364	0239-OAK-AIR-V-039 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55365	0239-OAK-AIR-V-040 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55366	0239-OAK-AIR-V-041 : OAKDALE POWER PLANT MAKE UP WATER SYSTEM AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55367	0239-OAK-AIR-V-042 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55368	0239-OAK-AIR-V-043 : OAKDALE POWER PLANT HOSE BIB #12 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55369	0239-OAK-AIR-V-044 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55370	0239-OAK-AIR-V-045 : OAKDALE POWER PLANT AIR SYSTEM BY PASS ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55371	0239-OAK-AIR-V-046 : OAKDALE POWER PLANT AIR SYSTEM INSTRUMENT	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55372	0239-OAK-AIR-V-047 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55373	0239-OAK-AIR-V-048 : OAKDALE POWER PLANT AIR SYSTEM PRESSURE TRANSMITTER #1 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55374	0239-OAK-AIR-V-049 : OAKDALE POWER PLANT AIR SYSTEM SOUTH PLANT AOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55375	0239-OAK-AIR-V-050 : OAKDALE POWER PLANT CONDENSATE SYSTEM AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55376	0239-OAK-AIR-V-051 : OAKDALE POWER PLANT HOT WATER SYSTEM AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55377	0239-OAK-AIR-V-052 : OAKDALE POWER PLANT HOSE BIB #13 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55378	0239-OAK-AIR-V-053 : OAKDALE POWER PLANT HOSE BIB #16 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55379	0239-OAK-AIR-V-054 : OAKDALE POWER PLANT ENGINE #1 EXHAUST AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55380	0239-OAK-AIR-V-055 : OAKDALE POWER PLANT ENGINE #2 EXHAUST AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55381	0239-OAK-AIR-V-056 : OAKDALE POWER PLANT HOSE BIB #14 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55382	0239-OAK-AIR-V-057 : OAKDALE POWER PLANT HOSE BIB #15 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55383	0239-OAK-AIR-V-058 : OAKDALE POWER PLANT HOT WATER SYSTEM AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55384	0239-OAK-AIR-V-059 : OAKDALE POWER PLANT EAST TUNNEL/PAPER GARAGE MAIN ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55385	0239-OAK-AIR-V-060 : OAKDALE POWER PLANT CONDENSATE TRAP #6	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55386	0239-OAK-AIR-V-061 : OAKDALE POWER PLANT CONDENSATE TRAP #6 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55387	0239-OAK-AIR-V-062 : OAKDALE POWER PLANT EAST TUNNEL/PAPER GARAGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55388	0239-OAK-AIR-V-063 : OAKDALE POWER PLANT PAPER GARAGE AIR SUPPLY	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55389	0239-OAK-AIR-V-064 : OAKDALE POWER PLANT PAPER GARAGE AIR SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55390	0239-OAK-AIR-V-065 : OAKDALE POWER PLANT AIR SYSTEM AOV ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55391	0239-OAK-AIR-V-066 : OAKDALE POWER PLANT MEDIUM PRESSURE STEAM SYSTEM PRV AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55392	0239-OAK-AIR-V-067 : OAKDALE POWER PLANT CONDENSATE SYSTEM AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55393	0239-OAK-AIR-V-068 : OAKDALE POWER PLANT CONDENSATE TRAP #7 DRAIN	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55394	0239-OAK-AIR-V-069 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55395	0239-OAK-AIR-V-070 : OAKDALE POWER PLANT HOSE BIB #17/18 ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55396	0239-OAK-AIR-V-071 : OAKDALE POWER PLANT HOSE BIB #17 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55397	0239-OAK-AIR-V-072 : OAKDALE POWER PLANT HOSE BIB #18 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55398	0239-OAK-AIR-V-073 : OAKDALE POWER PLANT AIR HOSE AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55399	0239-OAK-AIR-V-074 : OAKDALE POWER PLANT AIR HOSE AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55400	0239-OAK-AIR-V-075 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55401	0239-OAK-AIR-V-076 : OAKDALE POWER PLANT AIR HOSE AIR SUPPLY ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55403	0239-OAK-AIR-V-077 : OAKDALE POWER PLANT HOSE BIB #20 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55404	0239-OAK-AIR-V-078 : OAKDALE POWER PLANT HOSE BIB #19 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55405	0239-OAK-AIR-V-079 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55406	0239-OAK-AIR-V-080 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55407	0239-OAK-AIR-V-081 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55408	0239-OAK-AIR-V-082 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55409	0239-OAK-AIR-V-083 : OAKDALE POWER PLANT HOSE BIB #23 SUPPLY ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55410	0239-OAK-AIR-V-084 : OAKDALE POWER PLANT HOSE BIB #22 SUPPLY ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55411	0239-OAK-AIR-V-085 : OAKDALE POWER PLANT AIR SYSTEM FEEDWATER AOV HEADER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55412	0239-OAK-AIR-V-086 : OAKDALE POWER PLANT HOSE BIB #25 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55413	0239-OAK-AIR-V-087 : OAKDALE POWER PLANT HOSE BIB #21 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55414	0239-OAK-AIR-V-088 : OAKDALE POWER PLANT AIR SYSTEM CONDENSATE AOV HEADER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55415	0239-OAK-AIR-V-089 : OAKDALE POWER PLANT AIR HOSE AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55416	0239-OAK-AIR-V-090 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55417	0239-OAK-AIR-V-091 : OAKDALE POWER PLANT MAKE UP AOV C-2 AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55418	0239-OAK-AIR-V-092 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55419	0239-OAK-AIR-V-093 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55420	0239-OAK-AIR-V-094 : OAKDALE POWER PLANT AIR SYSTEM CONDENSATE POLISHER STAGER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55421	0239-OAK-AIR-V-095 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55422	0239-OAK-AIR-V-096 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55423	0239-OAK-AIR-V-097 : OAKDALE POWER PLANT BLR 3 FEEDWATER AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55424	0239-OAK-AIR-V-098 : OAKDALE POWER PLANT BLR 4 FEEDWATER AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55425	0239-OAK-AIR-V-099 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55426	0239-OAK-AIR-V-100 : OAKDALE POWER PLANT BLR 2 FEEDWATER AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55427	0239-OAK-AIR-V-101 : OAKDALE POWER PLANT AIR SYSTEM HOSE BIB ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55428	0239-OAK-AIR-V-102 : OAKDALE POWER PLANT HOSE BIB #24 SUPPLY ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55429	0239-OAK-AIR-V-103 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55430	0239-OAK-AIR-V-104 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55431	0239-OAK-AIR-V-105 : OAKDALE POWER PLANT FEEDWATER AOV AIR SUPPLY OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55432	0239-OAK-AIR-V-106 : OAKDALE POWER PLANT FEEDWATER AOV AIR SUPPLY INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55433	0239-OAK-AIR-V-107 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55434	0239-OAK-AIR-V-108 : OAKDALE POWER PLANT PRESSURE GAUGE #26 AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55435	0239-OAK-AIR-V-109 : OAKDALE POWER PLANT AIR SYSTEM REGULATOR	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55436	0239-OAK-AIR-V-110 : OAKDALE POWER PLANT HEADER AOV AIR SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55437	0239-OAK-AIR-V-111 : OAKDALE POWER PLANT FEEDWATER AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55438	0239-OAK-AIR-V-112 : OAKDALE POWER PLANT D-VALVE AOV AIR SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55439	0239-OAK-AIR-V-113 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55440	0239-OAK-AIR-V-114 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55441	0239-OAK-AIR-V-115 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE (LINE USAGE DISCONTINUED)	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55442	0239-OAK-AIR-V-116 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55443	0239-OAK-AIR-V-117 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55444	0239-OAK-AIR-V-118 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55445	0239-OAK-AIR-V-119 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55446	0239-OAK-AIR-V-120 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55447	0239-OAK-AIR-V-121 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55448	0239-OAK-AIR-V-122 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55449	0239-OAK-AIR-V-123 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55450	0239-OAK-AIR-V-124 : OAKDALE POWER PLANT AIR DRYER #1/2 CROSSOVER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55451	0239-OAK-AIR-V-125 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55452	0239-OAK-AIR-V-126 : OAKDALE POWER PLANT AIR DRYER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55453	0239-OAK-AIR-V-127 : OAKDALE POWER PLANT AIR COMPRESSOR #1/2 CROSSOVER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55454	0239-OAK-AIR-V-128 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55455	0239-OAK-AIR-V-129 : OAKDALE POWER PLANT AIR SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55456	0239-OAK-AIR-V-131 : OAKDALE POWER PLANT NOT A SPECIFIED VALVE YET	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55457	0239-OAK-AIR-V-132 : OAKDALE POWER PLANT NOT A SPECIFIED VALVE YET	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55458	0239-OAK-AIR-V-133 : OAKDALE POWER PLANT NOT A SPECIFIED VALVE YET	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55459	0239-OAK-AIR-V-134 : OAKDALE POWER PLANT NOT A SPECIFIED VALVE YET	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55460	0239-OAK-AIR-V-135 : OAKDALE POWER PLANT A/C #1/2 AND A/C #3 SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55461	0239-OAK-AIR-V-136 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 BYPASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55462	0239-OAK-AIR-V-137 : OAKDALE POWER PLANT AIR DRYER #3 INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55463	0239-OAK-AIR-V-138 : OAKDALE POWER PLANT AIR DRYER #3 BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55464	0239-OAK-AIR-V-139 : OAKDALE POWER PLANT AIR DRYER #3 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55465	0239-OAK-AIR-V-140 : OAKDALE POWER PLANT A/C #3 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55466	0239-OAK-AIR-V-141 : OAKDALE POWER PLANT DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55467	0239-OAK-AIR-V-142 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 INLET	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55468	0239-OAK-AIR-V-143 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55469	0239-OAK-AIR-V-144 : OAKDALE POWER PLANT KICE DUST COLLECTOR BUILDING AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55470	0239-OAK-AIR-V-145 : OAKDALE POWER PLANT HOSE BIB #8 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55471	0239-OAK-AIR-V-146 : OAKDALE POWER PLANT HOSE BIB #8 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55472	0239-OAK-AIR-V-147 : OAKDALE POWER PLANT HOSE BIB #8 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55473	0239-OAK-AIR-V-148 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55474	0239-OAK-AIR-V-149 : OAKDALE POWER PLANT KICE DUST COLLECTOR BUILDING HVAC CONTROLS AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55475	0239-OAK-AIR-V-150 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55476	0239-OAK-AIR-V-151 : OAKDALE POWER PLANT HOSE BIB #6 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55477	0239-OAK-AIR-V-152 : OAKDALE POWER PLANT HOSE BIB #6 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55478	0239-OAK-AIR-V-153 : OAKDALE POWER PLANT HOSE BIB #6 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55479	0239-OAK-AIR-V-154 : OAKDALE POWER PLANT HOSE BIB #5 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55480	0239-OAK-AIR-V-155 : OAKDALE POWER PLANT HOSE BIB #5 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55481	0239-OAK-AIR-V-156 : OAKDALE POWER PLANT HOSE BIB #5 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55482	0239-OAK-AIR-V-157 : OAKDALE POWER PLANT BLR1 FEEDWATER AOV AND SOOT BLOWING AIR RECEIVER AIR	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55483	0239-OAK-AIR-V-158 : OAKDALE POWER PLANT BLR1 FEEDWATER AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55484	0239-OAK-AIR-V-159 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55485	0239-OAK-AIR-V-160 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER DRIP LEG ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55486	0239-OAK-AIR-V-161 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR DRYER OUTLET BY PASS VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55487	0239-OAK-AIR-V-162 : OAKDALE POWER PLANT BLR1 SOOT BLOWING AIR RECEIVER PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55488	0239-OAK-AIR-V-163 : OAKDALE POWER PLANT BLR1 METERING BIN DIVERter GATE AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55489	0239-OAK-AIR-V-164 : OAKDALE POWER PLANT BLR1 SKY VALVE AND GASIFIER OUTLET AOV AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55490	0239-OAK-AIR-V-165 : OAKDALE POWER PLANT BLR1 SKY VALVE AOV REGULATOR AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55491	0239-OAK-AIR-V-166 : OAKDALE POWER PLANT GASIFIER OUTLET AOV REGULATOR AIR SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55492	0239-OAK-AIR-V-167 : OAKDALE POWER PLANT HOSE BIB #1 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55493	0239-OAK-AIR-V-168 : OAKDALE POWER PLANT HOSE BIB #1 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55494	0239-OAK-AIR-V-169 : OAKDALE POWER PLANT HOSE BIB #1 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55495	0239-OAK-AIR-V-170 : OAKDALE POWER PLANT UREA INJECTION AIR SUPPLY	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55496	0239-OAK-AIR-V-171 : OAKDALE POWER PLANT UREA BLOWDOWN AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55497	0239-OAK-AIR-V-172 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55498	0239-OAK-AIR-V-173 : OAKDALE POWER PLANT AIR SYSTEM DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55499	0239-OAK-AIR-V-174 : OAKDALE POWER PLANT BLR1 UREA AUTO JET CONTROL PANEL AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55500	0239-OAK-AIR-V-175 : OAKDALE POWER PLANT TRIMER BAGHOUSE AND HOSE BIB #2 AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55501	0239-OAK-AIR-V-176 : OAKDALE POWER PLANT HOSE BIB #2 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55502	0239-OAK-AIR-V-177 : OAKDALE POWER PLANT HOSE BIB #2 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55503	0239-OAK-AIR-V-178 : OAKDALE POWER PLANT HOSE BIB #2 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55504	0239-OAK-AIR-V-179 : OAKDALE POWER PLANT NORTH TRIMER BAGHOUSE PULSER AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55505	0239-OAK-AIR-V-180 : OAKDALE POWER PLANT NORTH TRIMER BAGHOUSE PULSER DRIP LEG DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55506	0239-OAK-AIR-V-181 : OAKDALE POWER PLANT SOUTH TRIMER BAGHOUSE PULSER AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55507	0239-OAK-AIR-V-182 : OAKDALE POWER PLANT SOUTH TRIMER BAGHOUSE PULSER DRIP LEG DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55508	0239-OAK-AIR-V-183 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55509	0239-OAK-AIR-V-184 : OAKDALE POWER PLANT HOSE BIB #4 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55510	0239-OAK-AIR-V-185 : OAKDALE POWER PLANT HOSE BIB #4 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55511	0239-OAK-AIR-V-186 : OAKDALE POWER PLANT JOHNSON CONTROLS AIR DRYER INLET BY PASS VALVE	SERIALIZED	VALVE 3-WAY	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55512	0239-OAK-AIR-V-187 : OAKDALE POWER PLANT AIR RECEIVER TANK #1 DRAIN TRAP ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55513	0239-OAK-AIR-V-188 : OAKDALE POWER PLANT KICE BAGHOUSE PULSER AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55514	0239-OAK-AIR-V-189 : OAKDALE POWER PLANT BLR1 FEEDWATER AOV	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55515	0239-OAK-AIR-V-190 : OAKDALE POWER PLANT BLR1 GASIFIER AOV ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55516	0239-OAK-AIR-V-191 : OAKDALE POWER PLANT AIR SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55517	0239-OAK-AIR-V-192 : OAKDALE POWER PLANT HOSE BIB #9 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55518	0239-OAK-AIR-V-193 : OAKDALE POWER PLANT HOSE BIB #9 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55519	0239-OAK-AIR-V-194 : OAKDALE POWER PLANT HOSE BIB #9 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55520	0239-OAK-AIR-V-195 : OAKDALE POWER PLANT HOSE BIB #7 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55521	0239-OAK-AIR-V-196 : OAKDALE POWER PLANT HOSE BIB #7 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55522	0239-OAK-AIR-V-197 : OAKDALE POWER PLANT HOSE BIB #7 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55523	0239-OAK-AIR-V-198 : OAKDALE POWER PLANT HOSE BIB #3 SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55524	0239-OAK-AIR-V-199 : OAKDALE POWER PLANT HOSE BIB #3 DRIP LEG ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55525	0239-OAK-AIR-V-200 : OAKDALE POWER PLANT CAMPUS STEAM DISTRIBUTION AOV AIR SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55526	0239-OAK-AIR-V-201 : OAKDALE POWER PLANT CAMPUS STEAM DISTRIBUTION AOV AIR PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55527	0239-OAK-AIR-V-202 : OAKDALE POWER PLANT AIR DRYER #3 PURGE RATE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55528	0239-OAK-AIR-V-203 : OAKDALE POWER PLANT AIR SYSTEM VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55529	0239-OAK-AIR-V-204 : OAKDALE POWER PLANT AIR DRYER #3 OUTLET FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55530	0239-OAK-AIR-V-205 : OAKDALE POWER PLANT AIR DRYER #3 INLET FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55531	0239-OAK-AIR-V-206 : OAKDALE POWER PLANT BLR1 METERING BIN AIR SUPPLY REGULATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55532	0239-OAK-AIR-V-207 : OAKDALE POWER PLANT GASIFIER OUTLET AOV AIR SUPPLY REGULATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55533	0239-OAK-BLR1-AOV-001: OAKDALE POWER PLANT BOILER #1 FEEDWATER REGULATING VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55534	0239-OAK-BLR1-AOV-002: OAKDALE POWER PLANT BOILER #1 GASIFIER ASH OUTLET AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55535	0239-OAK-BLR1-AOV-003: OAKDALE POWER PLANT BOILER #1 STEAM AIR	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55536	0239-OAK-BLR1-AOV-100: OAKDALE POWER PLANT BOILER #1 GAS FUEL DOUBLE GAS AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55537	0239-OAK-BLR1-AUG-001: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55538	0239-OAK-BLR1-AUG-002: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55539	0239-OAK-BLR1-AUG-003: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55540	0239-OAK-BLR1-AUG-004: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55541	0239-OAK-BLR1-AUG-005: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55542	0239-OAK-BLR1-AUG-006: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55543	0239-OAK-BLR1-AUG-007: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55544	0239-OAK-BLR1-AUG-008: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55545	0239-OAK-BLR1-AUG-009: OAKDALE POWER PLANT BOILER #1 GASIFER ASH CONVEYOR AUGER	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55546	0239-OAK-BLR1-AUG-010: OAKDALE POWER PLANT KICE BAGHOUSE OUTLET CONVEYOR AUGER	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55547	0239-OAK-BLR1-AUG-011: OAKDALE POWER PLANT BOILER #1 CONVEYOR FROM BIOMASS STORAGE AUGER	SERIALIZED	AUGER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55548	0239-OAK-BLR1-BLR-001: OAKDALE POWER PLANT OAKDALE HURST	SERIALIZED	BOILER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55549	0239-OAK-BLR1-BLW-001: OAKDALE POWER PLANT BOILER #1 CARRY-OVER REINJECTION BLOWER	SERIALIZED	BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55550	0239-OAK-BLR1-BLW-002: OAKDALE POWER PLANT KICE BAGHOUSE EXHAUST OUTLET BLOWER	SERIALIZED	BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55551	0239-OAK-BLR1-CV-100: OAKDALE POWER PLANT BOILER #1 MAIN GAS SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55552	0239-OAK-BLR1-CVR-001: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55553	0239-OAK-BLR1-CVR-002: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55554	0239-OAK-BLR1-CVR-003: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55555	0239-OAK-BLR1-CVR-004: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55556	0239-OAK-BLR1-CVR-005: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55557	0239-OAK-BLR1-CVR-006: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55558	0239-OAK-BLR1-CVR-007: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55559	0239-OAK-BLR1-CVR-008: OAKDALE POWER PLANT BOILER #1 ASH	SERIALIZED	CONVEYOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55560	0239-OAK-BLR1-DMP-001: OAKDALE POWER PLANT BOILER #1 BIOMASS STORAGE AIR DAMPER	SERIALIZED	DAMPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55561	0239-OAK-BLR1-DMP-002: OAKDALE POWER PLANT BOILER #1 BIOMASS SHAKER AIR DAMPER	SERIALIZED	DAMPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55562	0239-OAK-BLR1-DMP-003: OAKDALE POWER PLANT BOILER #1 BIOMASS SHAKER AIR DAMPER	SERIALIZED	DAMPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55563	0239-OAK-BLR1-DMP-004: OAKDALE POWER PLANT BOILER #1 BIOMASS METERING BIN DAMPER	SERIALIZED	DAMPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55564	0239-OAK-BLR1-FAN-001: OAKDALE POWER PLANT BOILER #1 INDUCED	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55565	0239-OAK-BLR1-FAN-002: OAKDALE POWER PLANT BOILER #1 GAS FLUE RECIRCULATING FAN	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55566	0239-OAK-BLR1-FAN-003: OAKDALE POWER PLANT BOILER #1 UNDER FIRE	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55567	0239-OAK-BLR1-FAN-004: OAKDALE POWER PLANT BOILER #1 OVER FIRE AIR	SERIALIZED	FAN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55568	0239-OAK-BLR1-FLT-001: OAKDALE POWER PLANT BOILER #1 FEEDWATER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55569	0239-OAK-BLR1-FLT-002: OAKDALE POWER PLANT BOILER #1 STEAM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55570	0239-OAK-BLR1-HOP-001: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	HOPPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55571	0239-OAK-BLR1-HOP-002: OAKDALE POWER PLANT BOILER #1 PRIMARY FLY ASH COLLECTOR HOPPER	SERIALIZED	HOPPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55572	0239-OAK-BLR1-HOP-003: OAKDALE POWER PLANT BOILER #1 BAGHOUSE	SERIALIZED	HOPPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55573	0239-OAK-BLR1-HOP-004: OAKDALE POWER PLANT BOILER #1 BAGHOUSE	SERIALIZED	HOPPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55574	0239-OAK-BLR1-HOP-005: OAKDALE POWER PLANT KICE BAGHOUSE HOPPER	SERIALIZED	HOPPER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55575	0239-OAK-BLR1-LS-001: OAKDALE POWER PLANT BIOMASS STORAGE	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55576	0239-OAK-BLR1-LS-002: OAKDALE POWER PLANT BIOMASS STORAGE	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55577	0239-OAK-BLR1-LS-003: OAKDALE POWER PLANT BIOMASS STORAGE OUTLET CONVEYOR LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55578	0239-OAK-BLR1-LS-004: OAKDALE POWER PLANT KICE BAGHOUSE OUTLET CONVEYOR LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55579	0239-OAK-BLR1-LS-005: OAKDALE POWER PLANT BOILER #1 METERING BIN FUEL RESERVE LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55580	0239-OAK-BLR1-LS-006: OAKDALE POWER PLANT BOILER #1 METERING BIN FUEL RESERVE LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55581	0239-OAK-BLR1-LS-007: OAKDALE POWER PLANT BOILER #1 METERING BIN SCREW CONVEYOR LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55582	0239-OAK-BLR1-LS-008: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55583	0239-OAK-BLR1-LS-009: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55584	0239-OAK-BLR1-MOV-001: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH REMOVAL MOTOR OPERATED	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55585	0239-OAK-BLR1-MOV-002: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH REMOVAL MOTOR OPERATED	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55586	0239-OAK-BLR1-MTR-001: OAKDALE POWER PLANT BOILER #1 BIOMASS	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55587	0239-OAK-BLR1-MTR-002: OAKDALE POWER PLANT BOILER #1 BIOMASS	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55588	0239-OAK-BLR1-MTR-003: OAKDALE POWER PLANT BOILER #1 BIOMASS	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55589	0239-OAK-BLR1-MTR-004: OAKDALE POWER PLANT BOILER #1KICE BAGHOUSE OUTLET CONVEYOR MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55590	0239-OAK-BLR1-MTR-005: OAKDALE POWER PLANT BOILER #1 BIOMASS LIFT ELEVATOR MOTOR	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55591	0239-OAK-BLR1-MTR-006: OAKDALE POWER PLANT BOILER #1 FUEL	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55592	0239-OAK-BLR1-PG-001: OAKDALE POWER PLANT BOILER #1 BLOWDOWN WATER COLUMN PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55593	0239-OAK-BLR1-PG-002: OAKDALE POWER PLANT BOILER #1 BLOWDOWN WATER COLUMN PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55594	0239-OAK-BLR1-PG-003: OAKDALE POWER PLANT BOILER #1 BLOWDOWN WATER COLUMN PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55595	0239-OAK-BLR1-PG-100: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55596	0239-OAK-BLR1-PG-101: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55597	0239-OAK-BLR1-PG-102: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55598	0239-OAK-BLR1-PS-100: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55599	0239-OAK-BLR1-PS-101: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	SWITCH PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55600	0239-OAK-BLR1-PT-001: OAKDALE POWER PLANT BOILER #1 PRIMARY FLY ASH COLLECTOR PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55601	0239-OAK-BLR1-PT-002: OAKDALE POWER PLANT BOILER #1 NON-POTABLE PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55602	0239-OAK-BLR1-PT-003: OAKDALE POWER PLANT BOILER #1 BLOWDOWN WATER COLUMN PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55603	0239-OAK-BLR1-RTV-001: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH OUTLET ROTARY VALVE	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55604	0239-OAK-BLR1-RTV-002: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH OUTLET ROTARY VALVE	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55605	0239-OAK-BLR1-RTV-003: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH OUTLET ROTARY VALVE	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55606	0239-OAK-BLR1-RTV-004: OAKDALE POWER PLANT BOILER #1 BAGHOUSE ASH OUTLET ROTARY VALVE	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55607	0239-OAK-BLR1-RTV-005: OAKDALE POWER PLANT BOILER #1 GASIFIER PRIMARY METERING BIN ROTARY VALVE	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55608	0239-OAK-BLR1-RTV-006: OAKDALE POWER PLANT BOILER #1 GASIFIER SECONDARY METERING BIN ROTARY	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55609	0239-OAK-BLR1-RV-001: OAKDALE POWER PLANT BOILER #1 PRESSURE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55610	0239-OAK-BLR1-RV-002: OAKDALE POWER PLANT BOILER #1 PRESSURE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55611	0239-OAK-BLR1-RV-003: OAKDALE POWER PLANT BOILER #1 PRESSURE	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55612	0239-OAK-BLR1-SB-001: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55613	0239-OAK-BLR1-SB-002: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55614	0239-OAK-BLR1-SB-003: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55615	0239-OAK-BLR1-SB-004: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55616	0239-OAK-BLR1-SB-005: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55617	0239-OAK-BLR1-SB-006: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55618	0239-OAK-BLR1-SB-007: OAKDALE POWER PLANT BOILER #1 FIRETUBE	SERIALIZED	SOOT BLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55619	0239-OAK-BLR1-SG-001: OAKDALE POWER PLANT BOILER #1 WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55620	0239-OAK-BLR1-SG-002: OAKDALE POWER PLANT BOILER #1 WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55621	0239-OAK-BLR1-SOV-001: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55622	0239-OAK-BLR1-SOV-002: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55623	0239-OAK-BLR1-SOV-003: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55624	0239-OAK-BLR1-SOV-004: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55625	0239-OAK-BLR1-SOV-005: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55626	0239-OAK-BLR1-SOV-006: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55627	0239-OAK-BLR1-SOV-007: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55628	0239-OAK-BLR1-SOV-008: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55629	0239-OAK-BLR1-SOV-009: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55630	0239-OAK-BLR1-SOV-010: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55631	0239-OAK-BLR1-SOV-011: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55632	0239-OAK-BLR1-SOV-012: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55633	0239-OAK-BLR1-SOV-013: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55634	0239-OAK-BLR1-SOV-014: OAKDALE POWER PLANT BOILER #1 BAGHOUSE AIR SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55635	0239-OAK-BLR1-SOV-015: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55636	0239-OAK-BLR1-SOV-016: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55637	0239-OAK-BLR1-SOV-017: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55638	0239-OAK-BLR1-SOV-018: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55639	0239-OAK-BLR1-SOV-019: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55640	0239-OAK-BLR1-SOV-020: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55641	0239-OAK-BLR1-SOV-021: OAKDALE POWER PLANT BOILER #1 FIRETUBE SOOTBLOWER INLET AIR SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55642	0239-OAK-BLR1-SOV-022: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55643	0239-OAK-BLR1-SOV-023: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55644	0239-OAK-BLR1-SOV-024: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55645	0239-OAK-BLR1-SOV-025: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55646	0239-OAK-BLR1-SOV-026: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55647	0239-OAK-BLR1-SOV-027: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55648	0239-OAK-BLR1-SOV-028: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55649	0239-OAK-BLR1-SOV-029: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55650	0239-OAK-BLR1-SOV-030: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55651	0239-OAK-BLR1-SOV-031: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55652	0239-OAK-BLR1-SOV-032: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55653	0239-OAK-BLR1-SOV-033: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55654	0239-OAK-BLR1-SOV-034: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55655	0239-OAK-BLR1-SOV-035: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55656	0239-OAK-BLR1-SOV-036: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55657	0239-OAK-BLR1-SOV-037: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55658	0239-OAK-BLR1-SOV-038: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55659	0239-OAK-BLR1-SOV-039: OAKDALE POWER PLANT KICE BAGHOUSE AIR INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55660	0239-OAK-BLR1-SOV-040: OAKDALE POWER PLANT BOILER #1 STOKER SCREW TUBE WATER SPRAY SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55661	0239-OAK-BLR1-SOV-041: OAKDALE POWER PLANT BOILER #1 STOKER SCREW TUBE WATER SPRAY SOLENOID	SERIALIZED	VALVE SOLENOID	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55662	0239-OAK-BLR1-TT-001: OAKDALE POWER PLANT BOILER #1 STOKER SCREW TUBE WATER SPRAY	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55663	0239-OAK-BLR1-TT-002: OAKDALE POWER PLANT BOILER #1 STOKER SCREW TUBE WATER SPRAY	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55664	0239-OAK-BLR1-V-001: OAKDALE POWER PLANT BOILER #1 STEAM DRUM CONTINUOUS BLOWDOWN LINE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55665	0239-OAK-BLR1-V-002: OAKDALE POWER PLANT BOILER #1 STEAM DRUM CONTINUOUS BLOWDOWN LINE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55666	0239-OAK-BLR1-V-003: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55667	0239-OAK-BLR1-V-004: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55668	0239-OAK-BLR1-V-005: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55669	0239-OAK-BLR1-V-006: OAKDALE POWER PLANT BOILER #1 STEAM NON	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55670	0239-OAK-BLR1-V-007: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55671	0239-OAK-BLR1-V-008: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55672	0239-OAK-BLR1-V-009: OAKDALE POWER PLANT BOILER #1 STEAM	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55673	0239-OAK-BLR1-V-010: OAKDALE POWER PLANT BOILER #1 STEAM SECOND HEADER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55674	0239-OAK-BLR1-V-011: OAKDALE POWER PLANT BOILER #1 FEEDWATER AOV BYPASS ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55675	0239-OAK-BLR1-V-012: OAKDALE POWER PLANT BOILER #1 FEEDWATER AOV INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55676	0239-OAK-BLR1-V-013: OAKDALE POWER PLANT BOILER #1 FEEDWATER AOV OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55677	0239-OAK-BLR1-V-014: OAKDALE POWER PLANT BOILER #1 FEEDWATER INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55678	0239-OAK-BLR1-V-015: OAKDALE POWER PLANT BOILER #1 BIOMASS STOKER BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55679	0239-OAK-BLR1-V-016: OAKDALE POWER PLANT BOILER #1 BIOMASS STOKER BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55680	0239-OAK-BLR1-V-017: OAKDALE POWER PLANT BOILER #1 BIOMASS STOKER BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55681	0239-OAK-BLR1-V-018: OAKDALE POWER PLANT BOILER #1 BIOMASS STOKER BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55682	0239-OAK-BLR1-V-019: OAKDALE POWER PLANT BOILER #1 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55683	0239-OAK-BLR1-V-020: OAKDALE POWER PLANT BOILER #1 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55684	0239-OAK-BLR1-V-021: OAKDALE POWER PLANT BOILER #1 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55685	0239-OAK-BLR1-V-022: OAKDALE POWER PLANT BOILER #1 STEAM DRUM WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55686	0239-OAK-BLR1-V-023: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55687	0239-OAK-BLR1-V-024: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55688	0239-OAK-BLR1-V-025: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55689	0239-OAK-BLR1-V-026: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55690	0239-OAK-BLR1-V-027: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (INNER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55691	0239-OAK-BLR1-V-028: OAKDALE POWER PLANT BOILER #1 FIRETUBE BLOWDOWN VALVE (OUTER)	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55692	0239-OAK-BLR1-V-029: OAKDALE POWER PLANT BOILER #1 BLOWDOWN WATER COLUMN PRESSURE GAUGE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55693	0239-OAK-BLR1-V-030: OAKDALE POWER PLANT BOILER #1 NON-POTABLE WATER DRAIN VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55694	0239-OAK-BLR1-V-031: OAKDALE POWER PLANT BOILER #1 NON-POTABLE WATER () ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55695	0239-OAK-BLR1-V-032: OAKDALE POWER PLANT BOILER #1 NON-POTABLE WATER () BYPASS VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55696	0239-OAK-BLR1-V-033: OAKDALE POWER PLANT BOILER #1 NON-POTABLE WATER PRESSURE TRANSMITTER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55697	0239-OAK-BLR1-V-034: OAKDALE POWER PLANT BOILER #1 SIGHT GLASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55698	0239-OAK-BLR1-V-035: OAKDALE POWER PLANT BOILER #1 SIGHT GLASS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55699	0239-OAK-BLR1-V-036: OAKDALE POWER PLANT BOILER #1 FLOW TRANSMITTER INSTRUMENT MANIFOLD	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55700	0239-OAK-BLR1-V-100: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55701	0239-OAK-BLR1-V-101: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55702	0239-OAK-BLR1-V-102: OAKDALE POWER PLANT BOILER #1 GAS FUEL TO GASIFER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55703	0239-OAK-BLR1-V-103: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55704	0239-OAK-BLR1-V-104: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55705	0239-OAK-BLR1-V-105: OAKDALE POWER PLANT BOILER #1 GAS FUEL	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55706	0239-OAK-BLR1-V-106: OAKDALE POWER PLANT BOILER #1 MAIN GAS	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55707	0239-OAK-BLR1-V-107: OAKDALE POWER PLANT BOILER #1 MAIN GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55708	0239-OAK-BLR1-WC-001: OAKDALE POWER PLANT BOILER #1 WATER	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55709	0239-OAK-BLR1-WC-002: OAKDALE POWER PLANT BOILER #1 WATER	SERIALIZED	WATER COLUMN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55711	0239-OAK-NPW-BFP-001 : OAKDALE POWER PLANT POTABLE TO NON POTABLE BACKFLOW PREVENTER	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55712	0239-OAK-NPW-BFP-002 : OAKDALE POWER PLANT POTABLE TO NON POTABLE BACKFLOW PREVENTER	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55713	0239-OAK-NPW-V-001 : OAKDALE POWER PLANT BACKFLOW PREVENTER OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55714	0239-OAK-NPW-V-002 : OAKDALE POWER PLANT BACKFLOW PREVENTER OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55715	0239-OAK-NPW-V-003 : OAKDALE POWER PLANT NON-POTABLE WATER TO BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55716	0239-OAK-PWS-FIL-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55717	0239-OAK-PWS-FIL-002 : OAKDALE POWER PLANT POTABLE WATER FILTER	SERIALIZED	FILTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55718	0239-OAK-PWS-FM-001 : OAKDALE POWER PLANT POTABLE WATER FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55719	0239-OAK-PWS-FM-002 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55720	0239-OAK-PWS-FM-003 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55721	0239-OAK-PWS-FM-004 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55722	0239-OAK-PWS-FM-005 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55723	0239-OAK-PWS-FM-006 : OAKDALE POWER PLANT POTABLE WATER FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55724	0239-OAK-PWS-FM-007 : OAKDALE POWER PLANT POTABLE WATER FLOW	SERIALIZED	FLOW METER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55725	0239-OAK-PWS-FTN-001 : OAKDALE POWER PLANT WATER FOUNTAIN	SERIALIZED	FOUNTAIN WATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55726	0239-OAK-PWS-HB-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55727	0239-OAK-PWS-HB-002 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55728	0239-OAK-PWS-HB-003 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55729	0239-OAK-PWS-HB-004 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55730	0239-OAK-PWS-HB-005 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55731	0239-OAK-PWS-HB-006 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55732	0239-OAK-PWS-HB-007 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55733	0239-OAK-PWS-HB-008 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55734	0239-OAK-PWS-HB-009 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55735	0239-OAK-PWS-HB-010 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55736	0239-OAK-PWS-HB-011 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55737	0239-OAK-PWS-HB-012 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55738	0239-OAK-PWS-HB-013 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55739	0239-OAK-PWS-HB-014 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	HOSE BIB	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55740	0239-OAK-PWS-HTR-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM WATER HEATER	SERIALIZED	WATER HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55741	0239-OAK-PWS-HTR-002 : OAKDALE POWER PLANT POTABLE WATER SYSTEM WATER HEATER	SERIALIZED	WATER HEATER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55742	0239-OAK-PWS-LS-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	SENSOR LEVEL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55743	0239-OAK-PWS-MTR-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	MOTOR	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55744	0239-OAK-PWS-P-CNT-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM CENTRIFUGAL PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55745	0239-OAK-PWS-P-CNT-002 : OAKDALE POWER PLANT POTABLE WATER SYSTEM CENTRIFUGAL PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55746	0239-OAK-PWS-PG-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM PUMP OUTFLOW PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55747	0239-OAK-PWS-PG-002 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55748	0239-OAK-PWS-PG-003 : OAKDALE POWER PLANT POTABLE WATER SYSTEM PUMP OUTFLOW PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55749	0239-OAK-PWS-PG-004 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55750	0239-OAK-PWS-PG-005 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	GAUGE PRESSURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55751	0239-OAK-PWS-RV-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE RELIEF	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55752	0239-OAK-PWS-SHW-001 : OAKDALE POWER PLANT SHOWER	SERIALIZED	SHOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55753	0239-OAK-PWS-SHW-002 : OAKDALE POWER PLANT CONTAMINATION	SERIALIZED	SHOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55754	0239-OAK-PWS-SNK-001 : OAKDALE POWER PLANT OFFICE LOUNGE SINK	SERIALIZED	SINK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55755	0239-OAK-PWS-SNK-002 : OAKDALE POWER PLANT OFFICE RESTROOM SINK	SERIALIZED	SINK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55756	0239-OAK-PWS-SNK-003 : OAKDALE POWER PLANT EYEWASH STATION SINK	SERIALIZED	SINK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55757	0239-OAK-PWS-SNK-004 : OAKDALE POWER PLANT BOILER 1 CATWALK SINK	SERIALIZED	SINK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55758	0239-OAK-PWS-SNK-005 : OAKDALE POWER PLANT BASEMENT SINK NEXT TO CONDENSATE TANK	SERIALIZED	SINK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55759	0239-OAK-PWS-TG-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55760	0239-OAK-PWS-TG-002 : OAKDALE POWER PLANT POTABLE WATER SYSTEM WATER HEATER TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55761	0239-OAK-PWS-TNK-001 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55762	0239-OAK-PWS-TNK-002 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55763	0239-OAK-PWS-TNK-003 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BRINE STORAGE TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55764	0239-OAK-PWS-TNK-004 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BRINE STORAGE TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55765	0239-OAK-PWS-TNK-005 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BRINE STORAGE TANK	SERIALIZED	TANK	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55766	0239-OAK-PWS-V-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55767	0239-OAK-PWS-V-002 : OAKDALE POWER PLANT POTABLE WATER VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55768	0239-OAK-PWS-V-003 : OAKDALE POWER PLANT POTABLE WATER FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55769	0239-OAK-PWS-V-004 : OAKDALE POWER PLANT POTABLE WATER FLOW METER BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55770	0239-OAK-PWS-V-005 : OAKDALE POWER PLANT POTABLE WATER FLOW METER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55771	0239-OAK-PWS-V-006 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55772	0239-OAK-PWS-V-007 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55773	0239-OAK-PWS-V-008 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55774	0239-OAK-PWS-V-009 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55775	0239-OAK-PWS-V-010 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55776	0239-OAK-PWS-V-011 : OAKDALE POWER PLANT POTABLE WATER SYSTEM WATER FOUNTAIN ISOLATION	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55777	0239-OAK-PWS-V-012 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55778	0239-OAK-PWS-V-013 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55779	0239-OAK-PWS-V-014 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TOILET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55780	0239-OAK-PWS-V-015 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TO CAT WALK SINK ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55781	0239-OAK-PWS-V-016 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55782	0239-OAK-PWS-V-017 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55783	0239-OAK-PWS-V-018 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB INBOARD ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55784	0239-OAK-PWS-V-019 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB OUTBOARD	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55785	0239-OAK-PWS-V-020 : OAKDALE POWER PLANT POTABLE WATER TO DEAERATOR SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55786	0239-OAK-PWS-V-021 : OAKDALE POWER PLANT POTABLE WATER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55787	0239-OAK-PWS-V-022 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55788	0239-OAK-PWS-V-023 : OAKDALE POWER PLANT POTABLE WATER SHOWER AND SINK HOT WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55789	0239-OAK-PWS-V-024 : OAKDALE POWER PLANT POTABLE WATER SHOWER AND SINK COLD WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55790	0239-OAK-PWS-V-025 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SINK COLD WATER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55791	0239-OAK-PWS-V-026 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SINK HOT WATER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55792	0239-OAK-PWS-V-027 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55793	0239-OAK-PWS-V-029 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB INBOARD ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55794	0239-OAK-PWS-V-030 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB OUTBOARD	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55795	0239-OAK-PWS-V-031 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55796	0239-OAK-PWS-V-032 : OAKDALE POWER PLANT POTABLE WATER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55797	0239-OAK-PWS-V-033 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55798	0239-OAK-PWS-V-034 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55799	0239-OAK-PWS-V-035 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SINK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55800	0239-OAK-PWS-V-036 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SHOWER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55801	0239-OAK-PWS-V-037 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55802	0239-OAK-PWS-V-038 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55803	0239-OAK-PWS-V-039 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55804	0239-OAK-PWS-V-040 : OAKDALE POWER PLANT POTABLE WATER TO BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55805	0239-OAK-PWS-V-041 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB INBOARD ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55806	0239-OAK-PWS-V-042 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55807	0239-OAK-PWS-V-043 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB OUTBOARD	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55808	0239-OAK-PWS-V-044 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB INBOARD ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55809	0239-OAK-PWS-V-045 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55810	0239-OAK-PWS-V-046 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB OUTBOARD	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55811	0239-OAK-PWS-V-047 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55812	0239-OAK-PWS-V-048 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55813	0239-OAK-PWS-V-049 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55814	0239-OAK-PWS-V-050 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55815	0239-OAK-PWS-V-051 : OAKDALE POWER PLANT POTABLE WATER FROM WATER SOFTENER FLOW METER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55816	0239-OAK-PWS-V-052 : OAKDALE POWER PLANT POTABLE WATER FROM WATER SOFTENER FLOW METER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55817	0239-OAK-PWS-V-053 : OAKDALE POWER PLANT POTABLE WATER FROM WATER SOFTENER FLOW METER BYPASS	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55818	0239-OAK-PWS-V-054 : OAKDALE POWER PLANT POTABLE WATER SYSTEM WATER HEATER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55819	0239-OAK-PWS-V-055 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SINK HOT WATER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55820	0239-OAK-PWS-V-056 : OAKDALE POWER PLANT POTABLE WATER SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55821	0239-OAK-PWS-V-057 : OAKDALE POWER PLANT POTABLE WATER PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55822	0239-OAK-PWS-V-058 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55823	0239-OAK-PWS-V-059 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55824	0239-OAK-PWS-V-060 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55825	0239-OAK-PWS-V-061 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55826	0239-OAK-PWS-V-062 : OAKDALE POWER PLANT POTABLE WATER SYSTEM FLOW METER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55827	0239-OAK-PWS-V-063 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55828	0239-OAK-PWS-V-064 : OAKDALE POWER PLANT POTABLE WATER SYSTEM FLOW METER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55829	0239-OAK-PWS-V-065 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55830	0239-OAK-PWS-V-066 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55831	0239-OAK-PWS-V-067 : OAKDALE POWER PLANT POTABLE WATER FILTER INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55832	0239-OAK-PWS-V-068 : OAKDALE POWER PLANT POTABLE WATER FILTER OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55833	0239-OAK-PWS-V-069 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55834	0239-OAK-PWS-V-070 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55835	0239-OAK-PWS-V-071 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BACKFLOW PREVENTER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55836	0239-OAK-PWS-V-072 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BACKFLOW PREVENTER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55837	0239-OAK-PWS-V-073 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BACKFLOW PREVENTER FLOW	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55838	0239-OAK-PWS-V-074 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BACKFLOW PREVENTER INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55839	0239-OAK-PWS-V-075 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BACKFLOW PREVENTER INLET	SERIALIZED	VALVE GATE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55840	0239-OAK-PWS-V-076 : OAKDALE POWER PLANT POTABLE WATER BACKFLOW PREVENTER WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55841	0239-OAK-PWS-V-077 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55842	0239-OAK-PWS-V-078 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HEADER TO BRINE TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55843	0239-OAK-PWS-V-079 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BRINE STORAGE TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55844	0239-OAK-PWS-V-080 : OAKDALE POWER PLANT POTABLE WATER SYSTEM BRINE STORAGE TANK	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55845	0239-OAK-PWS-V-081 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55846	0239-OAK-PWS-V-082 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55847	0239-OAK-PWS-V-083 : OAKDALE POWER PLANT POTABLE WATER SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55848	0239-OAK-PWS-V-084 : OAKDALE POWER PLANT POTABLE WATER PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55849	0239-OAK-PWS-V-085 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55850	0239-OAK-PWS-V-086 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55851	0239-OAK-PWS-V-087 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55852	0239-OAK-PWS-V-088 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55853	0239-OAK-PWS-V-089 : OAKDALE POWER PLANT POTABLE WATER SYSTEM FLOW METER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55854	0239-OAK-PWS-V-090 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55855	0239-OAK-PWS-V-091 : OAKDALE POWER PLANT POTABLE WATER SYSTEM FLOW METER ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55856	0239-OAK-PWS-V-092 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55857	0239-OAK-PWS-V-093 : OAKDALE POWER PLANT POTABLE WATER FILTER INLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55858	0239-OAK-PWS-V-094 : OAKDALE POWER PLANT POTABLE WATER FILTER OUTLET ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55859	0239-OAK-PWS-V-095 : OAKDALE POWER PLANT POTABLE WATER SYSTEM VACUUM TRANSMITTER DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55860	0239-OAK-PWS-V-096 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55861	0239-OAK-PWS-V-097 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55862	0239-OAK-PWS-V-098 : OAKDALE POWER PLANT POTABLE WATER PRESSURE GAUGE AND FLOW METER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55863	0239-OAK-PWS-V-099 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55864	0239-OAK-PWS-V-100 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55865	0239-OAK-PWS-V-101 : OAKDALE POWER PLANT POTABLE WATER TANK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55866	0239-OAK-PWS-V-102 : OAKDALE POWER PLANT POTABLE WATER DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55867	0239-OAK-PWS-V-103 : OAKDALE POWER PLANT POTABLE WATER TANK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55868	0239-OAK-PWS-V-104 : OAKDALE POWER PLANT PHOSPATE SAMPLING	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55869	0239-OAK-PWS-V-105 : OAKDALE POWER PLANT POTABLE WATER TO CHILL WATER PLANT ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55870	0239-OAK-PWS-V-106 : OAKDALE POWER PLANT POTABLE WATER DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55871	0239-OAK-PWS-V-107 : OAKDALE POWER PLANT POTABLE WATER DRAIN	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55872	0239-OAK-PWS-V-108 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55873	0239-OAK-PWS-V-109 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55874	0239-OAK-PWS-V-110 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55875	0239-OAK-PWS-V-111 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55876	0239-OAK-PWS-V-112 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55877	0239-OAK-PWS-V-113 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55878	0239-OAK-PWS-V-114 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55879	0239-OAK-PWS-V-115 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55880	0239-OAK-PWS-V-116 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55881	0239-OAK-PWS-V-117 : OAKDALE POWER PLANT POTABLE WATER SYSTEM HOSE BIB ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55882	0239-OAK-PWS-V-118 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55883	0239-OAK-PWS-V-119 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55884	0239-OAK-PWS-V-120 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55885	0239-OAK-PWS-V-121 : OAKDALE POWER PLANT POTABLE WATER SYSTEM SINK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55886	0239-OAK-PWS-V-122 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55887	0239-OAK-PWS-V-123 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55888	0239-OAK-PWS-V-124 : OAKDALE POWER PLANT POTABLE WATER	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55889	0239-OAK-PWS-V-125 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TANK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55890	0239-OAK-PWS-V-126 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TANK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55891	0239-OAK-PWS-V-127 : OAKDALE POWER PLANT POTABLE WATER TO	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55892	0239-OAK-PWS-V-128 : OAKDALE POWER PLANT POTABLE WATER SYSTEM TANK ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55893	0239-OAK-PWS-V-129 : OAKDALE POWER PLANT POTABLE WATER SYSTEM LEVEL SENSOR ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55894	0239-OAK-PWS-V-130 : OAKDALE POWER PLANT POTABLE WATER SYSTEM LEVEL SENSOR ISOLATION	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55895	0239-OAK-PWS-V-131 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55896	0239-OAK-PWS-V-132 : OAKDALE POWER PLANT POTABLE WATER SYSTEM ISOLATION VALVE	SERIALIZED	VALVE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55897	0239-OAK-PWS-VAC-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM VACUUM BREAKER	SERIALIZED	BREAKER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55898	0239-OAK-PWS-VT-001 : OAKDALE POWER PLANT POTABLE WATER SYSTEM VACUUM TRANSMITTER	SERIALIZED	TRANSMITTER VACUUM	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55899	0239-OAK-PWS-YS-001 : OAKDALE POWER PLANT POTABLE WATER FILTER INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55900	0239-OAK-PWS-YS-002 : OAKDALE POWER PLANT POTABLE WATER FILTER INLET WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
55901	0239-OAK-PWS-YS-003 : OAKDALE POWER PLANT POTABLE WATER BACKFLOW PREVENTER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
57835	FIRE SPRINKLER SYSTEM, 0239 OPP	SERIALIZED	FIRE SUPPRESSION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
58234	FIRE SAFETY INSPECTION (6), 0239 OPP	SERIALIZED	SAFETY DEVICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
58588	FIRE ALARM SYSTEM, 0239 OPP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
60188	DOOR ACCESS, SYSTEM, 0239 BUILDING WIDE DOOR ACCESS SYSTEM	SYSTEM	DOOR ACCESS , BUILDING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
60540	ACCESS CONTROL BATTERY, SYSTEM, 0239 POWER SUPPLY BATTERY FOR ACCESS	SYSTEM	DOOR ACCESS , BUILDING	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
60900	239-B02-HPW-BFP-1 : BFP IN BASEMENT ROOM B02, FOR HOT WATER LOOP, MAKE UP WATER, SOUTH END - UPPER	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
60901	239-B02-HPW-BFP-2 : BFP IN BASEMENT ROOM B02, FOR HOT WATER LOOP, MAKE UP WATER, SOUTH	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
60903	239-B02-CPW-BFP-1 : BFP IN BASEMENT ROOM B02, FOR MAKE UP WATER SOFTENER TO CHILLED WATER SYSTEM	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
63158	Makita Leaf Blower-0239-PP2442	CUSTODIAL	LEAFBLOWER	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
64978	AUTOMATIC EXTERNAL DEFIBRILLATOR (AED), 0239 OPP	SERIALIZED	SAFETY DEVICE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
65621	SMOKE DETECTORS, 0239 OPP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
66003	FAN COIL FILTERS, SYSTEM, 239 ITS FAN COIL UNITS AT OAKDALE POWER PLANT FORMERLY: 227ITS : FAN COIL FILTERS	SERIALIZED	AIR HANDLING UNIT	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	Oakdale Utility Power Plant
CWMTR 92	CWMTR 92, Building #0025, Pappajohn Biomedical Discovery Building, PBDB Mech Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pappajohn Biomedical Discov Bldg
CWMTR 92	CWMTR 92, Building #0025, Pappajohn Biomedical Discovery Building, PBDB Mech Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pappajohn Biomedical Discov Bldg
CWMTR 35	CWMTR 35, Building #0430, Papajohn Business, Papajohn Business Mechinal	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Pappajohn Business Bldg
CWMTR 35	CWMTR 35, Building #0430, Papajohn Business, Papajohn Business Mechinal	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Pappajohn Business Bldg
CWMTR 22	CWMTR 22, Building #0006, New Pharmacy, Under Stairs in New Phar	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pharmacy Building
HQW-PHAR	Pharmacy High Quality Water System	HQW-	RO/DI	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pharmacy Building
CWMTR 22	CWMTR 22, Building #0006, New Pharmacy, Under Stairs in New Phar	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pharmacy Building
CWMTR 7	CWMTR 7, Building # 0431, Pomerantz Eye Clinic, Sub Tunnel By Eye Clinic	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Pomerantz Family Pavilion
CWMTR 7	CWMTR 7, Building # 0431, Pomerantz Eye Clinic, Sub Tunnel By Eye Clinic	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	UIHC	Pomerantz Family Pavilion
44275	0431-H-MUS-YS-102 : HOSPITAL MAKEUP WATER SYSTEM WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44276	0431-H-BLR-WC-202 : HOSPITAL BOILER SYSTEM WATER COLUMN 2	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44277	0431-H-FW-YS-101 : HOSPITAL FEED WATER SYSTEM CENTRIFUGAL PUMP	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44278	0431-H-MUS-YS-101 : HOSPITAL MAKEUP WATER SYSTEM REGULATOR	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44279	0431-H-MPS-YS-101 : HOSPITAL MEDIUM PRESSURE STEAM PRV WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44280	0431-H-HPS-YS-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44281	0431-H-GFS-YS-202 : HOSPITAL GAS FUEL SYSTEM WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44282	0431-H-GFS-YS-201 : HOSPITAL GAS FUEL SYSTEM WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44283	0431-H-FW-YS-102 : HOSPITAL FEED WATER SYSTEM CENTRIFUGAL PUMP	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44284	0431-H-DAS-YS-102 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44285	0431-H-DAS-YS-101 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44286	0431-H-CON-YS-204 : HOSPITAL CONDENSATE SYSTEM TRAP WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44287	0431-H-CON-YS-203 : HOSPITAL CONDENSATE SYSTEM REMOVAL WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44288	0431-H-CON-YS-201 : HOSPITAL CONDENSATE SYSTEM WARM STANDBY OUTLET WYE STRAINER 1	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44289	0431-H-MUS-WM-101 : HOSPITAL MAKEUP WATER SYSTEM WATER	SERIALIZED	WATER METER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44290	0431-H-DAS-WC-101 : HOSPITAL DEAERATOR SYSTEM TANK WATER	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44291	0431-H-BLR-WC-201 : HOSPITAL BOILER SYSTEM WATER COLUMN 1	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44292	0431-H-CON-YS-202 : HOSPITAL CONDENSATE SYSTEM WARM STANDBY OUTLET WYE STRAINER 2	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44293	0431-H-GFS-PIL-201 : HOSPITAL GAS FUEL SYSTEM PILOT	SERIALIZED	PILOT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44294	0431-H-BDS-MOV-101 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44295	0431-H-GFS-MOV-201 : HOSPITAL GAS FUEL SYSTEM MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44296	0431-H-GFS-MOV-202 : HOSPITAL GAS FUEL SYSTEM MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44297	0431-H-CON-FOV-101 : HOSPITAL CONDENSATE SYSTEM OVERFLOW TRAP	SERIALIZED	TRAP OVERFLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44298	0431-H-GFS-IGN-201 : HOSPITAL GAS FUEL SYSTEM BOILER IGNITOR	SERIALIZED	IGNITOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44299	0431-H-BLR-LT-201 : HOSPITAL BOILER SYSTEM LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44300	0431-H-DAS-LT-101 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44301	0431-H-BDS-HX-101 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44302	0431-H-DAS-LS-101 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44303	0431-H-DAS-LS-102 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44304	0431-H-BLR-OXY-201 : HOSPITAL BOILER SYSTEM OXYGEN ANALYZER	SERIALIZED	OXYGEN ANALYZER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44305	0431-H-BDS-SC-201 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	SAMPLE COOLER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44306	0431-H-CFS-PG-101 : HOSPITAL CHEMICAL FEED SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44307	0431-H-FW-SC-201 : HOSPITAL FEEDWATER SYSTEM SAMPLE COOLER 1	SERIALIZED	SAMPLE COOLER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44308	0431-H-BLR-PT-201 : HOSPITAL BOILER SYSTEM PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44309	0431-H-BLR-PT-202 : HOSPITAL BOILER SYSTEM PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44310	0431-H-BLR-PT-203 : HOSPITAL BOILER SYSTEM PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44311	0431-H-HPS-SC-201 : HOSPITAL HIGH PRESSURE STEAM SAMPLE COOLER 1	SERIALIZED	SAMPLE COOLER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44312	0431-H-MUS-PG-104 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44313	0431-H-AIR-PG-201 : HOSPITAL AIR SYSTEM AIR COMPRESSOR PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44314	0431-H-GFS-PG-203 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44315	0431-H-GFS-PG-204 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44316	0431-H-HPS-PG-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44317	0431-H-HPS-PG-202 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44318	0431-H-HPS-PG-203 : HOSPITAL HIGH PRESSURE STEAM STEAM OUTLET	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44319	0431-H-MPS-PG-201 : HOSPITAL MID PRESSURE STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

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44320	0431-H-MUS-PG-101 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44321	0431-H-GFS-PG-201 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44322	0431-H-MUS-PG-103 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44323	0431-H-FW-PG-202 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44324	0431-H-MUS-REG-101 : HOSPITAL MAKEUP WATER SYSTEM REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44325	0431-H-GFS-REG-201 : HOSPITAL GAS FUEL SYSTEM INLET REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44326	0431-H-AIR-REG-202 : HOSPITAL AIR SYSTEM H-GFS-CV-201 REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44327	0431-H-AIR-REG-201 : HOSPITAL AIR SYSTEM CONTROL UNIT REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44328	0431-H-AIR-REG-101 : HOSPITAL AIR SYSTEM CONTROL UNIT REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44329	0431-H-MPS-PRV-101 : HOSPITAL MID PRESSURE STEAM SYSTEM MEDIUM PRESSURE TO LOW PRESSURE STEAM	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44330	0431-H-MPS-CU-201 : HOSPITAL MID PRESSURE STEAM SYSTEM CONTROL	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44331	0431-H-HPS-PRV-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM HIGH PRESSURE TO MEDIUM PRESSURE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44332	0431-H-GFS-PRV-201 : HOSPITAL GAS FUEL SYSTEM GAS REGULATOR	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44333	0431-H-MUS-PG-102 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44335	0431-H-MUS-RV-101 : HOSPITAL MAKEUP WATER SYSTEM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44336	0431-H-FW-RV-201 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44339	0431-H-BLR-RV-202 : HOSPITAL BOILER SYSTEM BOILER RELIEF VALVE 2	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44340	0431-H-BLR-RV-201 : HOSPITAL BOILER SYSTEM BOILER RELIEF VALVE 1	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44341	0431-H-GFS-PS-203 : HOSPITAL GAS FUEL SYSTEM SOV PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44342	0431-H-GFS-PS-202 : HOSPITAL GAS FUEL SYSTEM PRESSURE SWITCH 2	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

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44343	0431-H-GFS-PG-202 : HOSPITAL GAS FUEL SYSTEM IGNITOR PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44344	0431-H-CON-PS-102 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44345	0431-H-AIR-PT-201 : HOSPITAL AIR SYSTEM AIR COMPRESSOR PRESSURE	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44346	0431-H-BLR-PS-203 : HOSPITAL BOILER SYSTEM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44347	0431-H-BLR-PS-202 : HOSPITAL BOILER SYSTEM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44348	0431-H-BLR-PS-201 : HOSPITAL BOILER SYSTEM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44349	0431-H-AIR-PS-201 : HOSPITAL AIR SYSTEM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44350	0431-H-BLR-PG-201 : HOSPITAL BOILER SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44351	0431-H-CFS-PG-102 : HOSPITAL CHEMICAL FEED SYSTEM PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44352	0431-H-DAS-PG-101 : HOSPITAL DEAERATOR SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44353	0431-H-DAS-PG-102 : HOSPITAL DEAERATOR SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44354	0431-H-FW-PG-201 : HOSPITAL FEEDWATER SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44355	0431-H-GFS-PS-201 : HOSPITAL GAS FUEL SYSTEM CONTROL VALVE	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44356	0431-H-DAS-V-118 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44357	0431-H-FW-V-217 : HOSPITAL FEEDWATER SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44358	0431-H-GFS-V-210 : HOSPITAL GAS FUEL SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44359	0431-H-GFS-V-209 : HOSPITAL GAS FUEL SYSTEM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44360	0431-H-GFS-V-208 : HOSPITAL GAS FUEL SYSTEM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44361	0431-H-GFS-V-207 : HOSPITAL GAS FUEL SYSTEM SOV BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44362	0431-H-GFS-V-206 : HOSPITAL GAS FUEL SYSTEM WYE STRAINER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

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44363	0431-H-GFS-V-205 : HOSPITAL GAS FUEL SYSTEM INLET SOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44364	0431-H-GFS-V-204 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44365	0431-H-GFS-V-203 : HOSPITAL GAS FUEL SYSTEM IGNITOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44366	0431-H-GFS-V-202 : HOSPITAL GAS FUEL SYSTEM BOILER INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44367	0431-H-GFS-V-201 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44369	0431-H-FW-V-218 : HOSPITAL FEEDWATER SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44370	0431-H-GFS-V-213 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44371	0431-H-FW-V-211 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44372	0431-H-FW-V-207 : HOSPITAL FEEDWATER SYSTEM CV ISOLATOIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44373	0431-H-FW-V-204 : HOSPITAL FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44374	0431-H-FW-V-203 : HOSPITAL FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44375	0431-H-DAS-V-133 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44376	0431-H-DAS-V-132 : HOSPITAL DEAERATOR SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44377	0431-H-DAS-V-131 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44378	0431-H-DAS-V-124 : HOSPITAL DEAERATOR SYSTEM PRESSURE GAUGE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44379	0431-H-DAS-V-123 : HOSPITAL DEAERATOR SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44380	0431-H-DAS-V-122 : HOSPITAL DEAERATOR SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44381	0431-H-FW-V-219 : HOSPITAL FEEDWATER SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44382	0431-H-MUS-V-104 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44384	0431-H-MUS-V-124 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44385	0431-H-MUS-V-123 : HOSPITAL MAKEUP WATER SYSTEM SHOWER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44386	0431-H-MUS-V-122 : HOSPITAL MAKEUP WATER SYSTEM SINK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44387	0431-H-MUS-V-121 : HOSPITAL MAKEUP WATER SYSTEM HOT WATER HEATER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44388	0431-H-MUS-V-120 : HOSPITAL MAKEUP WATER SYSTEM HOT WATER HEATER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44389	0431-H-MUS-V-117 : HOSPITAL MAKEUP WATER SYSTEM WYE STRAINER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44390	0431-H-MUS-V-116 : HOSPITAL MAKEUP WATER SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44391	0431-H-MUS-V-115 : HOSPITAL MAKEUP WATER SYSTEM REGULATOR ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44392	0431-H-MUS-V-114 : HOSPITAL MAKEUP WATER SYSTEM REGULATOR BYPASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44393	0431-H-GFS-V-211 : HOSPITAL GAS FUEL SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44394	0431-H-MUS-V-108 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44395	0431-H-GFS-V-212 : HOSPITAL GAS FUEL SYSTEM INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44396	0431-H-MPS-V-201 : HOSPITAL MID PRESSURE STEAM SYSTEM CONTROL UNIT ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44397	0431-H-HPS-V-226 : HOSPITAL HIGH PRESSURE STEAM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44398	0431-H-HPS-V-224 : HOSPITAL HIGH PRESSURE STEAM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44399	0431-H-HPS-V-223 : HOSPITAL HIGH PRESSURE STEAM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44400	0431-H-HPS-V-222 : HOSPITAL HIGH PRESSURE STEAM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44401	0431-H-HPS-V-215 : HOSPITAL HIGH PRESSURE STEAM SYSTEM BYPASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44402	0431-H-HPS-V-212 : HOSPITAL HIGH PRESSURE STEAM WYE STRAINER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44403	0431-H-HPS-V-211 : HOSPITAL HIGH PRESSURE STEAM SYSTEM BYPASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44404	0431-H-HPS-V-207 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44405	0431-H-HPS-V-206 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44406	0431-H-DAS-V-108 : HOSPITAL DEAERATOR SYSTEM WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44407	0431-H-MUS-V-113 : HOSPITAL MAKEUP WATER SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44408	0431-H-BDS-V-105 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44409	0431-H-DAS-V-121 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44410	0431-H-BLR-V-227 : HOSPITAL BOILER SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44411	0431-H-BLR-V-226 : HOSPITAL BOILER SYSTEM BOILER MAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44412	0431-H-BLR-V-224 : HOSPITAL BOILER SYSTEM PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44413	0431-H-BDS-V-212 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44414	0431-H-BDS-V-211 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44415	0431-H-BDS-V-210 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44416	0431-H-BDS-V-209 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44417	0431-H-BDS-V-208 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44418	0431-H-BDS-V-207 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44419	0431-H-CFS-V-101 : HOSPITAL CHEMICAL FEED SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44420	0431-H-BDS-V-106 : HOSPITAL BLOWDOWN SYSTEM MOV BYPASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44421	0431-H-CFS-V-102 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44422	0431-H-BDS-V-103 : HOSPITAL BLOWDOWN SYSTEM MOV ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44423	0431-H-BDS-V-102 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44424	0431-H-AIR-V-209 : HOSPITAL AIR SYSTEM COMPRESSOR ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44425	0431-H-AIR-V-208 : HOSPITAL AIR SYSTEM PRESSURE TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44426	0431-H-AIR-V-207 : HOSPITAL AIR SYSTEM OXYGEN ANALYZER CALIBRATION PANEL ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44427	0431-H-AIR-V-206 : HOSPITAL AIR SYSTEM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44428	0431-H-AIR-V-205 : HOSPITAL AIR SYSTEM MAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44429	0431-H-AIR-V-204 : HOSPITAL AIR SYSTEM SOV ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44430	0431-H-AIR-V-203 : HOSPITAL AIR SYSTEM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44431	0431-H-AIR-V-202 : HOSPITAL AIR SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44432	0431-H-AIR-V-201 : HOSPITAL AIR SYSTEM INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44433	0431-H-BDS-V-108 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44434	0431-H-CFS-V-116 : HOSPITAL CHEMICAL FEED SYSTEM DAERATOR	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44435	0431-H-AIR-V-103 : HOSPITAL AIR SYSTEM MAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44438	0431-H-DAS-V-105 : HOSPITAL DEAERATOR SYSTEM WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44440	0431-H-DAS-V-103 : HOSPITAL DEAERATOR SYSTEM CHEMICAL FEEDER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44441	0431-H-DAS-V-102 : HOSPITAL DEAERATOR SYSTEM CHEMICAL FEEDER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44442	0431-H-DAS-V-101 : HOSPITAL DEAERATOR SYSTEM CHEMICAL FEEDER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44443	0431-H-CON-V-215 : HOSPITAL CONDENSATE SYSTEM WYE STRAINER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44444	0431-H-CON-V-103 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44445	0431-H-BLR-V-228 : HOSPITAL BOILER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44446	0431-H-CFS-V-117 : HOSPITAL CHEMICAL FEED SYSTEM TO FEEDWATER SYTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44447	0431-H-DAS-V-115 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44448	0431-H-CFS-V-115 : HOSPITAL CHEMICAL FEED SYSTEM TO FEEDWATER SYTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44449	0431-H-CFS-V-114 : HOSPITAL CHEMICAL FEED SYSTEM DAERATOR	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44450	0431-H-CFS-V-113 : HOSPITAL CHEMICAL FEED SYSTEM TO FEEDWATER SYTEM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44451	0431-H-CFS-V-112 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44452	0431-H-CFS-V-110 : HOSPITAL CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44453	0431-H-CFS-V-109 : HOSPITAL CHEMICAL FEED SYSTEM PRESSURE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44454	0431-H-CFS-V-108 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44455	0431-H-CFS-V-107 : HOSPITAL CHEMICAL FEED SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44456	0431-H-CFS-V-106 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44457	0431-H-CFS-V-104 : HOSPITAL CHEMICAL FEED SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44458	0431-H-CFS-V-103 : HOSPITAL CHEMICAL FEED SYSTEM PRESSURE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44459	0431-H-CFS-V-118 : HOSPITAL CHEMICAL FEED SYSTEM DEAERATOR	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44460	0431-H-CON-TRAP-204 : HOSPITAL CONDENSATE SYSTEM CONDENSATE OUTLET TRAP	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44461	0431-H-HPS-CHK-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM AOV OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44462	0431-H-CON-TRAP-203 : HOSPITAL CONDENSATE SYSTEM REMOVAL TRAP	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44463	0431-H-CON-TRAP-202 : HOSPITAL CONDENSATE SYSTEM WARM STANDBY OUTLET TRAP 2	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44464	0431-H-CON-TRAP-201 : HOSPITAL CONDENSATE SYSTEM WARM STANDBY OUTLET TRAP 1	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44465	0431-H-FW-CHK-101 : HOSPITAL FEED WATER SYSTEM PUMP OUTLET CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44466	0431-H-FW-CHK-102 : HOSPITAL FEED WATER SYSTEM PUMP OUTLET CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44467	0431-H-DAS-CHK-102 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44468	0431-H-FW-CHK-201 : HOSPITAL FEEDWATER SYSTEM BOILER INLET	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44469	0431-H-MUS-CHK-101 : HOSPITAL MAKEUP WATER SYSTEM DEAERATOR TANK INLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44470	0431-H-MUS-CHK-102 : HOSPITAL MAKEUP WATER SYSTEM HOT WATER HEATER CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44471	0431-H-MUS-CHK-103 : HOSPITAL MAKEUP WATER SYSTEM HOT WATER HEATER CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44472	0431-H-DAS-CU-101 : HOSPITAL DEAERATOR SYSTEM PRV CONTROL	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44473	0431-H-BDS-TNK-201 : HOSPITAL BLOWDOWN SYSTEM TANK	SERIALIZED	TANK BLOWDOWN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44474	0431-H-GFS-CV-201 : HOSPITAL GAS FUEL SYSTEM BOILER INLET CONTROL	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44475	0431-H-FW-CV-201 : HOSPITAL FEEDWATER SYSTEM CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44476	0431-H-BDS-CV-101 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44477	0431-H-BLR-DMP-203 : HOSPITAL BOILER SYSTEM DAMPER 3	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44478	0431-H-DAS-CHK-101 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44479	0431-H-AIR-CU-202 : HOSPITAL AIR SYSTEM H-GFS-CV-201 CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44480	0431-H-CON-P-CNT-101 : HOSPITAL CODENSATE SYSTEM CONDENSATE TANK CENTRIFUGAL PUMP 1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44481	0431-H-AIR-CU-101 : HOSPITAL AIR SYSTEM AOV CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44482	0431-H-AIR-CU-201 : HOSPITAL AIR SYSTEM H-FW-CV-201 CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44483	0431-H-BDS-CHK-101 : HOSPITAL BLOWDOWN SYSTEM CHECK VALVE 1	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44484	0431-H-CFS-CHK-101 : HOSPITAL CHEMICAL FEED SYSTEM PUMP INLET	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44485	0431-H-CFS-CHK-102 : HOSPITAL CHEMICAL FEED SYSTEM PUMP INLET	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44487	0431-H-FW-P-CNT-102 : HOSPITAL FEED WATER SYSTEM CENTRIFUGAL PUMP 2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44488	0431-H-BLR-DMP-201 : HOSPITAL BOILER SYSTEM DAMPER 1	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44489	0431-H-BLR-DMP-202 : HOSPITAL BOILER SYSTEM DAMPER 2	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44490	0431-H-FW-P-CNT-101 : HOSPITAL FEED WATER SYSTEM CENTRIFUGAL PUMP 1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44491	0431-H-DAS-P-CNT-102 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44492	0431-H-CON-P-CNT-102 : HOSPITAL CONDENSATE SYSTEM CONDENSATE TANK CENTRIFUGAL PUMP 2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44493	0431-H-CON-CHK-201 : HOSPITAL CONDENSATE SYSTEM TRAP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44494	0431-H-CFS-P-CNT-102 : HOSPITAL CHEMICAL FEED SYTEM CHEMICAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44495	0431-H-CFS-P-CNT-101 : HOSPITAL CHEMICAL FEED SYTEM CHEMICAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44497	0431-H-MUS-V-101 : HOSPITAL MAKEUP WATER SYSTEM HEAT EXCHANGER OUTLET VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44498	0431-H-CFS-TNK-101 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	TANK CHEMICAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44499	0431-H-CFS-TNK-102 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	TANK CHEMICAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44500	0431-H-MUS-V-102 : HOSPITAL MAKEUP WATER SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44501	0431-H-MUS-V-118 : HOSPITAL MAKEUP WATER SYSTEM WYE STRAINER ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44502	0431-H-MUS-V-119 : HOSPITAL MAKEUP WATER SYSTEM WYE STRAINER ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44503	0431-H-CON-CHK-101 : HOSPITAL CONDENSATE SYSTEM PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44504	0431-H-CON-CHK-102 : HOSPITAL CONDENSATE SYSTEM PUMP OUTLET CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44505	0431-H-DAS-P-CNT-101 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44506	0431-H-GFS-SOV-203 : HOSPITAL GAS FUEL SYSTEM SOLENOID OPERATED	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44507	0431-H-MUS-SA-101 : HOSPITAL MAKEUP WATER SYSTEM SHOCK	SERIALIZED	SHOCK ABSORBER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44508	0431-H-MUS-SHW-101 : HOSPITAL MAKEUP WATER SYSTEM SHOWER	SERIALIZED	SHOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44509	0431-H-DAS-TRS-101 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK TEMPERATURE SENSOR 1	SERIALIZED	SENSOR TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44510	0431-H-FW-TT-201 : HOSPITAL FEEDWATER SYSTEM HEAT EXCHANGER TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44511	0431-H-DAS-TT-101 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44512	0431-H-BLR-TT-203 : HOSPITAL BOILER SYSTEM TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44513	0431-H-BLR-TT-202 : HOSPITAL BOILER SYSTEM TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44514	0431-H-BLR-TT-201 : HOSPITAL BOILER SYSTEM TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44515	0431-H-GFS-SOV-201 : HOSPITAL GAS FUEL SYSTEM GAS INLET SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44516	0431-H-DAS-TRS-102 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK TEMPERATURE SENSOR 2	SERIALIZED	SENSOR TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44517	0431-H-GFS-TT-201 : HOSPITAL GAS FUEL SYSTEM TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44518	0431-H-FW-TG-202 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44519	0431-H-FW-TG-201 : HOSPITAL FEEDWATER SYSTEM TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44520	0431-H-DAS-TG-101 : HOSPITAL DEAERATOR SYSTEM DEARATOR TANK TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44521	0431-H-BLR-TG-203 : HOSPITAL BOILER SYSTEM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44522	0431-H-BLR-TG-202 : HOSPITAL BOILER SYSTEM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44523	0431-H-CON-TNK-101 : HOSPITAL CONDENSATE SYSTEM TANK	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44524	0431-H-BDS-TT-101 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44525	0431-H-GFS-SOV-202 : HOSPITAL GAS FUEL SYSTEM SOLENOID OPERATED	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44526	0431-H-CFS-SG-101 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44527	0431-H-CFS-SG-102 : HOSPITAL CHEMICAL FEED SYSTEM CHEMICAL	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44528	0431-H-DAS-SG-101 : HOSPITAL DEAERATOR SYSTEM WATER COLUMN	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44529	0431-H-DAS-SG-102 : HOSPITAL DEAERATOR SYSTEM WATER COLUMN	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44530	0431-H-DAS-SG-103 : HOSPITAL DEAERATOR SYSTEM WATER COLUMN	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44531	0431-H-MUS-SNK-101 : HOSPITAL MAKEUP WATER SYSTEM SINK	SERIALIZED	SINK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44532	0431-H-FW-TT-202 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44533	0431-H-DAS-SOV-102 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44534	0431-H-FW-TT-203 : HOSPITAL FEEDWATER SYSTEM ECONOMIZER TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44535	0431-H-GFS-SOV-204 : HOSPITAL GAS FUEL SYSTEM SOLENOID OPERATED	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44536	0431-H-HPS-SOV-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM WARM STANDBY INLET SOV	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44537	0431-H-LPS-TT-101 : HOSPITAL LOW PRESSURE STEAM SYSTEM DEAERATOR TANK TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44538	0431-H-HPS-TT-200 : HOSPITAL HIGH PRESSURE STEAM SYSTEM	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44539	0431-H-GFS-TT-202 : HOSPITAL GAS FUEL SYSTEM TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44540	0431-H-BLR-SG-201 : HOSPITAL BOILER SYSTEM WATER COLUMN SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44541	0431-H-DAS-SOV-101 : HOSPITAL DEAERATOR SYSTEM RECIRCULATION SOLENOID OPERATED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44542	0431-H-MPS-V-202 : HOSPITAL MID PRESSURE STEAM PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44543	0431-H-FW-V-103 : HOSPITAL FEED WATER SYSTEM PUMP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44544	0431-H-FW-V-214 : HOSPITAL FEEDWATER SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44545	0431-H-FW-V-213 : HOSPITAL FEEDWATER SYSTEM PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44546	0431-H-FW-V-212 : HOSPITAL FEEDWATER SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44547	0431-H-FW-V-210 : HOSPITAL FEEDWATER SYSTEM CV ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44548	0431-H-FW-V-209 : HOSPITAL FEEDWATER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44549	0431-H-FW-V-208 : HOSPITAL FEEDWATER SYSTEM CV ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44550	0431-H-FW-V-206 : HOSPITAL FEEDWATER SYSTEM PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44551	0431-H-FW-V-205 : HOSPITAL FEEDWATER SYSTEM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44552	0431-H-FW-V-202 : HOSPITAL FEEDWATER SYSTEM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44553	0431-H-FW-V-201 : HOSPITAL FEEDWATER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44554	0431-H-FW-V-106 : HOSPITAL FEED WATER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44555	0431-H-CON-V-216 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44556	0431-H-FW-V-104 : HOSPITAL FEED WATER SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44557	0431-H-HPS-V-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM BOILER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44558	0431-H-FW-V-102 : HOSPITAL FEED WATER SYSTEM PUMP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44559	0431-H-FW-V-101 : HOSPITAL FEED WATER SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44560	0431-H-DAS-V-130 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44561	0431-H-DAS-V-129 : HOSPITAL DEAERATOR SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44562	0431-H-DAS-V-128 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44563	0431-H-DAS-V-127 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44564	0431-H-DAS-V-126 : HOSPITAL DEAERATOR SYSTEM CONTROL UNIT	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44565	0431-H-DAS-V-125 : HOSPITAL DEAERATOR SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44566	0431-H-DAS-V-112 : HOSPITAL DEAERATOR SYSTEM PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44567	0431-H-DAS-V-110 : HOSPITAL DEAERATOR SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44568	0431-H-CON-V-218 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44569	0431-H-MPS-V-101 : HOSPITAL MID PRESSURE STEAM SYSTEM PRV BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44570	0431-H-FW-V-105 : HOSPITAL FEED WATER SYSTEM PUMP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44571	0431-H-HPS-V-218 : HOSPITAL HIGH PRESSURE STEAM SYSTEM MAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44572	0431-H-MUS-V-112 : HOSPITAL MAKEUP WATER SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44573	0431-H-MUS-V-111 : HOSPITAL MAKEUP WATER SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44574	0431-H-MUS-V-110 : HOSPITAL MAKEUP WATER SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44575	0431-H-MUS-V-109 : HOSPITAL MAKEUP WATER SYSTEM BACKFLOW PREVENTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44576	0431-H-MUS-V-107 : HOSPITAL MAKEUP WATER SYSTEM AOV BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44577	0431-H-MUS-V-106 : HOSPITAL MAKEUP WATER SYSTEM AOV ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44578	0431-H-MUS-V-105 : HOSPITAL MAKEUP WATER SYSTEM AOV ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44579	0431-H-MUS-V-103 : HOSPITAL MAKEUP WATER SYSTEM HEAT EXCHANGER BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44580	0431-H-MPS-V-102 : HOSPITAL MEDIUM PRESSURE STEAM WYE STRAINER IOSLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44581	0431-H-LPS-V-101 : HOSPITAL LOW PRESSURE STEAM SYSTEM PRV	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44582	0431-H-HPS-V-225 : HOSPITAL HIGH PRESSURE STEAM SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44583	0431-H-HPS-V-221 : HOSPITAL HIGH PRESSURE STEAM WARM STANDBY	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44584	0431-H-FW-V-215 : HOSPITAL FEEDWATER SYSTEM CHECK ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44585	0431-H-HPS-V-219 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44586	0431-H-FW-V-216 : HOSPITAL FEEDWATER SYSTEM SAMPLE COOLER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44587	0431-H-HPS-V-217 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44588	0431-H-HPS-V-216 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44589	0431-H-HPS-V-214 : HOSPITAL HIGH PRESSURE STEAM SYSTEM WYE STRAINER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44590	0431-H-HPS-V-213 : HOSPITAL HIGH PRESSURE STEAM PRESSURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44591	0431-H-HPS-V-210 : HOSPITAL HIGH PRESSURE STEAM SYSTEM WYE STRAINER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44592	0431-H-HPS-V-209 : HOSPITAL HIGH PRESSURE STEAM SYSTEM VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44593	0431-H-HPS-V-208 : HOSPITAL HIGH PRESSURE STEAM FLOW TRANSMITTER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44594	0431-H-HPS-V-205 : HOSPITAL HIGH PRESSURE STEAM FLOW TRANSMITTER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44595	0431-H-HPS-V-204 : HOSPITAL HIGH PRESSURE STEAM PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44596	0431-H-HPS-V-203 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44597	0431-H-HPS-V-202 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44598	0431-H-CON-V-214 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44599	0431-H-HPS-V-220 : HOSPITAL HIGH PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44600	0431-H-BLR-V-204 : HOSPITAL BOILER SYSTEM BOTTOM OF WC 2 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44601	0431-H-BLR-V-217 : HOSPITAL BOILER SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44602	0431-H-BLR-V-216 : HOSPITAL BOILER SYSTEM MAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44603	0431-H-BLR-V-215 : HOSPITAL BOILER SYSTEM MAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44604	0431-H-BLR-V-214 : HOSPITAL BLOWDOWN SYSTEM TO BOTTOM OF	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44605	0431-H-BLR-V-213 : HOSPITAL BLOWDOWN SYSTEM TO BOTTOM OF	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44606	0431-H-BLR-V-212 : HOSPITAL WATER SYSTEM TO TOP OF WC 1 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44607	0431-H-BLR-V-211 : HOSPITAL WATER SYSTEM TO TOP OF WC 1 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44608	0431-H-BLR-V-210 : HOSPITAL WATER SYSTEM TO TOP OF WC 1 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44609	0431-H-BLR-V-209 : HOSPITAL BLOWDOWN SYSTEM TO BOTTOM OF	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44610	0431-H-BLR-V-208 : HOSPITAL BLOWDOWN SYSTEM TO BOTTOM OF	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44611	0431-H-BLR-V-207 : HOSPITAL BLOWDOWN SYSTEM TO BOTTOM OF	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44612	0431-H-CON-V-217 : HOSPITAL CONDENSATE SYSTEM TRAP BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44613	0431-H-BLR-V-205 : HOSPITAL BOILER SYSTEM TO WC 1 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44614	0431-H-BLR-V-220 : HOSPITAL BOILER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44615	0431-H-BLR-V-203 : HOSPITAL BOILER SYSTEM BOTTOM OF WC 2 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44616	0431-H-BDS-V-206 : HOSPITAL BLOWDOWN SYSTEM SAMPLE COOLER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44617	0431-H-BDS-V-205 : HOSPITAL BLOWDOWN SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44618	0431-H-BDS-V-204 : HOSPITAL BLOWDOWN SYSTEM BOTTOM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44619	0431-H-BDS-V-203 : HOSPITAL BLOWDOWN SYSTEM BOTTOM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44620	0431-H-BDS-V-202 : HOSPITAL BLOWDOWN SYSTEM SURFACE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44621	0431-H-BDS-V-201 : HOSPITAL BLOWDOWN SYSTEM SURFACE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44622	0431-H-BDS-V-109 : HOSPITAL BLOW DOWN SYSTEM DEAERATOR TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44623	0431-H-BDS-V-107 : HOSPITAL BLOWDOWN SYSTEM HEAT EXCHANGER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44624	0431-H-BDS-V-104 : HOSPITAL BLOWDOWN SYSTEM MOV ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44625	0431-H-BDS-V-101 : HOSPITAL BLOWDOWN SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44626	0431-H-AIR-V-102 : HOSPITAL AIR SYSTEM SOV RECIRCULATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44627	0431-H-BLR-V-206 : HOSPITAL BOILER SYSTEM TO WC 1 VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44628	0431-H-CON-V-105 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44629	0431-H-CON-V-213 : HOSPITAL CONDENSATE SYSTEM WYE STRAINER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44630	0431-H-CON-V-212 : HOSPITAL CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44631	0431-H-CON-V-211 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44632	0431-H-CON-V-210 : HOSPITAL CONDENSATE SYSTEM TRAP BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44633	0431-H-CON-V-209 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44634	0431-H-CON-V-208 : HOSPITAL CONDENSATE SYSTEM WYE STRAINER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44635	0431-H-CON-V-207 : HOSPITAL CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44636	0431-H-CON-V-206 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44637	0431-H-CON-V-205 : HOSPITAL CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44638	0431-H-CON-V-204 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44639	0431-H-CON-V-203 : HOSPITAL CONDENSATE SYSTEM WYE STRAINER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44640	0431-H-CON-V-202 : HOSPITAL CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44641	0431-H-BLR-V-218 : HOSPITAL BOILER SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44642	0431-H-CON-V-106 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44643	0431-H-BLR-V-219 : HOSPITAL BOILER SYSTEM PRESSURE TRANSMITTER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44644	0431-H-CON-V-104 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44645	0431-H-CON-V-102 : HOSPITAL CONDENSATE SYSTEM CONDENSATE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44646	0431-H-CON-V-101 : HOSPITAL CONDENSATE SYSTEM OVERFLOW TRAP	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44647	0431-H-CFS-V-111 : HOSPITAL CHEMICAL FEED SYSTEM PUMP	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44648	0431-H-CFS-V-105 : HOSPITAL CHEMICAL FEED SYSTEM PUMP	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44649	0431-H-BLR-V-230 : HOSPITAL BOILER PRESSURE TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44650	0431-H-BLR-V-229 : HOSPITAL BOILER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44651	0431-H-BLR-V-225 : HOSPITAL BOILER SYSTEM BOILER PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44652	0431-H-BLR-V-223 : HOSPITAL BOILER SYSTEM TEMPERATURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44653	0431-H-BLR-V-222 : HOSPITAL BOILER SYSTEM TEMPERATURE GAUGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44654	0431-H-BLR-V-221 : HOSPITAL BOILER SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

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44655	0431-H-AIR-V-101 : HOSPITAL AIR SYSTEM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44656	0431-H-CON-V-201 : HOSPITAL CONDENSATE SYSTEM TRAP ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44657	0431-H-DAS-FDR-101 : HOSPITAL DEAERATOR SYSTEM CHEMICAL FEEDER	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44658	0431-H-GFS-FO-201 : HOSPITAL GAS FUEL SYSTEM FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44659	0431-H-FW-FO-201 : HOSPITAL FEEDWATER SYSTEM FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44660	0431-H-HPS-FLT-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44661	0431-H-GFS-FLT-201 : HOSPITAL GAS FUEL SYSTEM FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44662	0431-H-FW-FLT-201 : HOSPITAL FEEDWATER SYSTEM HEAT EXCHANGER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44663	0431-H-BLR-FAN-201 : HOSPITAL BOILER SYSTEM FAN	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44664	0431-H-HPS-FO-201 : HOSPITAL HIGH PRESSURE STEAM SYSTEM FLOW	SERIALIZED	FLOW ORIFICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44665	0431-H-BLR-V-202 : HOSPITAL BOILER SYSTEM SIGHT GLASS ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44666	BFP-101, HOSPITAL, 0431 BACKFLOW PREVENTER, HOSPITAL MAKEUP WATER SYSTEM 1 OF 2 LOCATION: IN ROOM FORMERLY: 0431-H-MUS-BFP-101	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	UIHC	Pomerantz Family Pavilion
44667	0431-H-DAS-V-119 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44668	0431-H-DAS-V-113 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44669	0431-H-BLR-V-201 : HOSPITAL BOILER SYSTEM SIGHT GLASS ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44670	0431-H-DAS-V-117 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE 3-WAY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44671	0431-H-DAS-V-120 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE 3-WAY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44672	0431-H-DAS-V-114 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE 3-WAY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
44673	0431-H-MUS-AOV-101 : HOSPITAL MAKEUP WATER SYSTEM HEAT	SERIALIZED	VALVE AIR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44674	BFP-102, HOSPITAL, 0431 BACKFLOW PREVENTER, HOSPITAL MAKEUP WATER SYSTEM 2 OF 2 LOCATION: IN ROOM FORMERLY: 0431-H-MUS-BFP-102	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	UIHC	Pomerantz Family Pavilion
44675	0431-H-DAS-V-116 : HOSPITAL DEAERATOR SYSTEM SIGHT GLASS	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	Pomerantz Family Pavilion
431	POMERANTZ FAMILY PAVILION	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	UIHC	Pomerantz Family Pavilion
CWMTR 14	CWMTR 14, Building #0046, IMU East	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-XFRRMS-FAN	Air handling unit to cool off Power Plant transformer rooms	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
52	POWER PLANT PP	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T192	GE VaporTran Transformer T192 Power Plant feeds Sub 2 (TR2)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T194	GE VaporTran Transformer T194 Power Plant feeds Sub 4 (TR4)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T196	GE VaporTran Transformer T196 Power Plant feeds Sub 6 (TR6)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T197	GE VaporTran Transformer T197 Power Plant feeds 5 KV MCC (TR7)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0300-JB-BLR1	Jefferson boiler 1	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0300-JB-BLR1-HR-MTR	0300-JB-BLR1-HR-MTR: Jefferson Boiler 1 Hour Reading Meter Jeff Title V	SERIALIZED	METER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0300-JB-BLR2	Jefferson boiler 2	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0300-JB-BLR2-HR-MTR	0300-JB-BLR2-HR-MTR: Jefferson Boiler 2 Hour Reading Meter Jeff Title V	SERIALIZED	METER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0300-JB-TITLEV-001	0300-JB-TITLEV-001: Jefferson Title V	SERIALIZED	TITLE V	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
11762	3-052-BL11-CPW-FW-1 : BFP - BOILER 11, LOWER LEVEL, SOUTHEAST SECTION	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
11767	3-052-BNCAGE-FW-BFP-1 : BFP FOR FIRE WATER - BASEMENT NORTH IN CAGED	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
11770	052-162-PAS-ELEV-1 : ELEVATOR	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
11783	3-052-PR-FW-BFP-1 : BFP - SILO 3, PARTS ROOM, WEST OF OFFICE AREA	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
52203	0052-CTRL-CU-001 : CONTINUOUS EMISSIONS MONITORING SYSTEM	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
55909	BLR7-BLR-001 : MAIN POWER PLANT	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
55910	BLR8-BLR-001 : MAIN POWER PLANT	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
55911	BLR10-BLR-001 : MAIN POWER PLANT BOILER 10	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
55912	BLR11-BLR-001 : MAIN POWER PLANT BOILER 11	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
55951	TG5-SYS-501: TURBINE GENERATOR 5	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
55952	TG6-SYS-601: TURBINE GENERATOR 6	SERIALIZED	GENERATOR TURBINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
57385	052 PP SUPPRESSION : ALTERNATIVE SUPPRESSION SYSTEM TEST	SERIALIZED	FIRE SUPPRESSION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
57933	FIRE SPRINKLER SYSTEM, 0052 PP	SERIALIZED	FIRE SUPPRESSION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
58130	AUTOMATIC EXTERNAL DEFIBRILLATOR (AED), 0052 PP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
58593	FIRE ALARM SYSTEM, 0052 PP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
59856	BLR12-BLR-001: MAIN POWER PLANT	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
61259	052-GER-CPW-FW-1 : BFP - GAS ENGINE ROOM, SOUTH WALL	SERIALIZED	BACKFLOW PREVENTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
61578	Windsor Chariot 2 iScrub 26in AGM-	CUSTODIAL	AUTOSCRUBBER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
62128	Castex 1500 Burnisher-0052-613402-10107126	CUSTODIAL	BURNISHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
63374	Advance Terra 132B Floor Sweeper-0052-PP1429	CUSTODIAL	SWEEPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
63430	Windsor Versamatic 14in-0052-79735	CUSTODIAL	VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
63521	Windsor Versamatic 14in-0052-H243454	CUSTODIAL	VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
64140	ProTeam Super Coach 6 Qt Backpack Vacuum-0052-16133R0242	CUSTODIAL	VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
64190	Windsor Versamatic 14in-0052-E-	CUSTODIAL	VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
64637	Tennant V-WD-15 Wet/Dry Vacuums-	CUSTODIAL	WET/DRY VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
65623	SMOKE DETECTORS, 0052 PP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DMP-01	AIR-DMP-01: MAINTENANCE SHOP AIR INTAKE LOUVERS 1 DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DMP-02	AIR-DMP-02: MAINTENANCE SHOP AIR INTAKE LOUVERS 2 DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DRY-001	AIR-DRY-001: AIR SYSTEM PALLAIR DESICCANT AIR DRYER 1	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DRY-002	AIR-DRY-002: AIR SYSTEM PALLAIR DESICCANT AIR DRYER 2	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DRY-003	AIR-DRY-003: AIR SYSTEM PALLAIR DESICCANT AIR DRYER 3	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-DRY-004	AIR-DRY-004: AIR SYSTEM PALLAIR DESICCANT AIR DRYER 4	SERIALIZED	AIR DRYER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-FCV-ASH	AIR-FCV-ASH: Ash System Instrumentation Air Supply Flow Control	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-FCV-BH10	AIR-FCV-BH10: BLR10 Baghouse Instrumentation Air Supply Flow Control Valves	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-FCV-DSI10	AIR-FCV-DSI10: BLR10 DSI Instrumentation Air Supply Flow Control	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
AIR-FCV-DSI11	AIR-FCV-DSI11:Â BLR11 DSI Instrumentation Air Supply Flow Control	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-001	AIR-P-SCR-001: AIR SYSTEM SULLAIR 1 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-002	AIR-P-SCR-002: AIR SYSTEM SULLAIR 2 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-003	AIR-P-SCR-003: AIR SYSTEM SULLAIR 3 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-004	AIR-P-SCR-004: AIR SYSTEM SULLAIR 4 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-005	AIR-P-SCR-005: AIR SYSTEM SULLAIR 5 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-P-SCR-006	AIR-P-SCR-006: AIR SYSTEM SULLAIR 6 AIR COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2004	AIR-PRV-2004: BLR12 FEEDWATER CONTROL VALVE BLR12-FCV-001 AIR PRESSURE REGULATING VALVE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2005	AIR-PRV-2005: BLR12 DSH WATER CONTROL VALVE ATTEMPORATOR BLR12-TCV-003 AIR PRESSURE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2006	AIR-PRV-2006: BLR12 HEADER HEATER CONTROL VALVE BLR12-PCV-004 AIR PRESSURE REGULATING VALVE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2007	AIR-PRV-2007: BLR12 DSH WATER CONTROL VALVE ATTEMPORATOR BLR12-TCV-005 AIR PRESSURE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2008	AIR-PRV-2008: BLR12 MAIN GAS FLOW CONTROL VALVE GFS-FCV-2000 AIR SUPPLY PRESSURE REGULATING VALVE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2009	AIR-PRV-2009: BLR12 BURNER IGNITOR COMBUSTION AIR PRESSURE REGULATING VALVE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-2010	AIR-PRV-2010: BLR12 FLAME SCANNER COOLING AIR PRESSURE REGULATING	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-ASH	AIR-PRV-ASH:Â Ash System Instrumentation Air Supply Pressure	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-BH10	AIR-PRV-BH10:Â BLR10 Baghouse Instrumentation Air Supply Pressure Reducing Valves	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PRV-DSI10	AIR-PRV-DSI10:Â BLR10 DSI Instrumentation Air Supply Pressure	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
AIR-PRV-DSI11	AIR-PRV-DSI11:Â BLR11 DSI Instrumentation Air Supply Pressure	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSL-2000	AIR-PSL-2000: BLR12 MAIN GAS FLOW CONTROL VALVE LO AIR SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSL-2001	AIR-PSL-2001: BLR12 FLAME SCANNER COOLING AIR LO PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSV-ASH	AIR-PSV-ASH:Â Ash System Instrumentation Air Pressure Safety	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSV-BH10	AIR-PSV-BH10:Â BLR10 Baghouse Instrumentation Air Pressure Safety	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSV-DSI10	AIR-PSV-DSI10:Â BLR10 DSI Instrumentation Air Pressure Safety	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PSV-DSI11	AIR-PSV-DSI11:Â BLR11 DSI Instrumentation Air Pressure Safety	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1001	AIR-PT-1001:Â BLR10 Baghouse Compartment 1 (1001) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1002	AIR-PT-1002:Â BLR10 Baghouse Compartment 2 (1002) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1003	AIR-PT-1003:Â BLR10 Baghouse Compartment 3 (1003) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1004	AIR-PT-1004:Â BLR10 Baghouse Compartment 4 (1004) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1005	AIR-PT-1005:Â BLR10 Baghouse Compartment 5 (1005) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-PT-1006	AIR-PT-1006:Â BLR10 Baghouse Compartment 6 (1006) Pulse Air Header	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-SOV-2000	AIR-SOV-2000: BLR12 FLAME SCANNER COOLING AIR SOLENOID BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-SOV-2001	AIR-SOV-2001: BLR12 BURNER IGNITOR COMBUSTION AIR SOLENOID BLOCK	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-SYS-001	AIR-SYS-001: Air System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
AIR-TT-02	AIR-TT-02:Â Ambient Air Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-AUG-11BAN	ASH-AUG-11BAN: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH)	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-AUG-11BAS	ASH-AUG-11BAS: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH)	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-BH-001	ASH-BH-001: ASH SILO EXHAUSTER BAGHOUSE OPS TITLE V (ASH SYSTEM BAGHOUSE (NEW SYSTEM))	SERIALIZED	BAGHOUSE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-BH-002	ASH-BH-002: ASH SYSTEM BAGHOUSE (OLD SYSTEM)	SERIALIZED	BAGHOUSE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-CHK-001	ASH-CHK-001: ASH SYSTEM EXHAUSTER 1 (NORTH) INLET CHECK VALVE/VACUUM BREAKER	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-CHK-002	ASH-CHK-002: ASH SYSTEM EXHAUSTER 2 (SOUTH) INLET CHECK VALVE/VACUUM BREAKER	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-CSH-10BAN	ASH-CSH-10BAN: ASH SYSTEM BLR10 BOTTOM ASH CRUSHER NORTH	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-CSH-10BAS	ASH-CSH-10BAS: ASH SYSTEM BLR10 BOTTOM ASH CRUSHER SOUTH	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-CVR-001	ASH-CVR-001: ASH SYSTEM UNLOADING CONVEYOR	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-DRC-001,	ASH-DRC-001: Ash Unloading DRC Ops Title V EP-14a2	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-DRC-002	ASH-DRC-002: Ash Silo DRC Ops Title V EP-14a1,	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-DVT-001	ASH-DVT-001: ASH SYSTEM FINAL FILTER DIFFERENTIAL VACUUM	SERIALIZED	TRANSMITTER VAC DIFF	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-EXH-001	ASH-EXH-001: ASH SYSTEM EXHAUSTER 1 (NORTH)	SERIALIZED	EXHAUSTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-EXH-002	ASH-EXH-002: ASH SYSTEM EXHAUSTER 2 (SOUTH)	SERIALIZED	EXHAUSTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-001	ASH-FCV-001: ASH SYSTEM UPPER CYCLONE SEPARATOR EQUALIZING/VENT VALVE (NEW	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-002	ASH-FCV-002: ASH SYSTEM LOWER CYCLONE SEPARATOR EQUALIZING/VENT VALVE (NEW	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-003	ASH-FCV-003: ASH SYSTEM LOWER CYCLONE SEPARATOR DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-004	ASH-FCV-004: ASH SYSTEM UPPER CYCLONE SEPARATOR DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-005	ASH-FCV-005: ASH SYSTEM LOWER CYCLONE SEPARATOR DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-006	ASH-FCV-006: ASH SYSTEM UPPER CYCLONE SEPARATOR DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-007	ASH-FCV-007: ASH SYSTEM UPPER CYCLONE SEPARATOR EQUALIZING/VENT VALVE (OLD SYSTEM)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-FCV-008	ASH-FCV-008: ASH SYSTEM LOWER CYCLONE SEPARATOR EQUALIZING/VENT VALVE (OLD SYSTEM)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-009	ASH-FCV-009: ASH SYSTEM BAGHOUSE UPPER DISCHARGE GATE (OLD SYSTEM)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-010	ASH-FCV-010: ASH SYSTEM BAGHOUSE LOWER DISCHARGE GATE (OLD SYSTEM)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-011	ASH-FCV-011: ASH SYSTEM BAGHOUSE EQUALIZING/VENT VALVE (OLD SYSTEM)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-012	ASH-FCV-012: ASH SYSTEM SILO DISCHARGE ISOLATION GATE (TOP)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-013	ASH-FCV-013: ASH SYSTEM SILO DISCHARGE ADJUSTABLE ISOLATION	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-014	ASH-FCV-014: ASH SYSTEM MAIN GATE FOR HOPPERS 1101 TO 1106	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-015	ASH-FCV-015: ASH SYSTEM MAIN GATE FOR HOPPER 1114 & PANTLEGS	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-016	ASH-FCV-016: ASH SYSTEM MAIN GATE FOR HOPPERS 1107 TO 1110	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-017	ASH-FCV-017: ASH SYSTEM GATE TO VACUUM BREAKER SILENCER BLR11	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-018	ASH-FCV-018: ASH SYSTEM GATE TO VACUUM BREAKER BLR11 BASEMENT	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-019	ASH-FCV-019: ASH SYSTEM BLR10 MAIN ISOLATION GATE IN BLR11 BASEMENT	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-020	ASH-FCV-020: ASH SYSTEM MAIN GATE FOR HOPPERS 1007 & 1008	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-021	ASH-FCV-021: ASH SYSTEM MAIN GATE FOR HOPPERS 1111 & 1112	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-022	ASH-FCV-022: ASH SYSTEM AIR INTAKE VALVE BY 1111 AND 1112	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1001	ASH-FCV-1001: ASH SYSTEM BLR10 ASH HOPPER 1001 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1002	ASH-FCV-1002: ASH SYSTEM BLR10 ASH HOPPER 1002 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1003	ASH-FCV-1003: ASH SYSTEM BLR10 ASH HOPPER 1003 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1004	ASH-FCV-1004: ASH SYSTEM BLR10 ASH HOPPER 1004 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1005	ASH-FCV-1005: ASH SYSTEM BLR10 ASH HOPPER 1005 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-FCV-1006	ASH-FCV-1006: ASH SYSTEM BLR10 ASH HOPPER 1006 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1007	ASH-FCV-1007: ASH SYSTEM BLR10 ASH HOPPER 1007 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1008	ASH-FCV-1008: ASH SYSTEM BLR10 ASH HOPPER 1008 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1009	ASH-FCV-1009:Â Ash System BLR10 Baghouse Hoppers 1001 & 1004	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1010	ASH-FCV-1010:Â Ash System BLR10 Baghouse Hopper 1005 Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1011	ASH-FCV-1011:Â Ash System BLR10 Baghouse Hoppers 1002 & 1003	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1012	ASH-FCV-1012:Â Ash System BLR10 Baghouse Hoppers 1002, 1003, 1005, & 1006 Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-10BA	ASH-FCV-10BA: ASH SYSTEM BLR10 BOTTOM ASH MAIN GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-10BAN	ASH-FCV-10BAN: ASH SYSTEM BLR10 BOTTOM ASH NORTH CRUSHER	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-10BAS	ASH-FCV-10BAS: ASH SYSTEM BLR10 BOTTOM ASH SOUTH CRUSHER	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1101	ASH-FCV-1101: ASH SYSTEM BLR11 ASH HOPPER 1101 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1102	ASH-FCV-1102: ASH SYSTEM BLR11 ASH HOPPER 1102 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1103	ASH-FCV-1103: ASH SYSTEM BLR11 ASH HOPPER 1103 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1104	ASH-FCV-1104: ASH SYSTEM BLR11 ASH HOPPER 1104 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1105	ASH-FCV-1105: ASH SYSTEM BLR11 ASH HOPPER 1105 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1106	ASH-FCV-1106: ASH SYSTEM BLR11 ASH HOPPER 1106 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1107	ASH-FCV-1107: ASH SYSTEM BLR11 ASH HOPPER 1107 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1108	ASH-FCV-1108: ASH SYSTEM BLR11 ASH HOPPER 1108 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1109	ASH-FCV-1109: ASH SYSTEM BLR11 ASH HOPPER 1109 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1110	ASH-FCV-1110: ASH SYSTEM BLR11 ASH HOPPER 1110 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-FCV-1111	ASH-FCV-1111: ASH SYSTEM BLR11 ASH HOPPER 1111 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1112	ASH-FCV-1112: ASH SYSTEM BLR11 ASH HOPPER 1112 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-1114	ASH-FCV-1114: ASH SYSTEM BLR11 ASH HOPPER 1114 DISCHARGE GATE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-11BAN	ASH-FCV-11BAN: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH) INLET	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-11BAS	ASH-FCV-11BAS: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH) INLET	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-EXH1	ASH-FCV-EXH1: ASH SYSTEM EXHAUSTER 1 (NORTH) INLET VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FCV-EXH2	ASH-FCV-EXH2: ASH SYSTEM EXHAUSTER 2 (SOUTH) INLET VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FF-001	ASH-FF-001: Ash System Final Filter Ops Title V	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-FM-001	ASH-FM-001: ASH SYSTEM UNLOADING FLOW METER	SERIALIZED	METER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1001	ASH-HOP-1001: ASH SYSTEM BLR10 ASH HOPPER 1001	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1002	ASH-HOP-1002: ASH SYSTEM BLR10 ASH HOPPER 1002	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1003	ASH-HOP-1003: ASH SYSTEM BLR10 ASH HOPPER 1003	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1004	ASH-HOP-1004: ASH SYSTEM BLR10 ASH HOPPER 1004	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1005	ASH-HOP-1005: ASH SYSTEM BLR10 ASH HOPPER 1005	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1006	ASH-HOP-1006: ASH SYSTEM BLR10 ASH HOPPER 1006	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1007	ASH-HOP-1007: ASH SYSTEM BLR10 ASH HOPPER 1007	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1008	ASH-HOP-1008: ASH SYSTEM BLR10 ASH HOPPER 1008	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-10BAN	ASH-HOP-10BAN: ASH SYSTEM BLR10 BOTTOM ASH HOPPER NORTH	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-10BAS	ASH-HOP-10BAS: ASH SYSTEM BLR10 BOTTOM ASH HOPPER SOUTH	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1101	ASH-HOP-1101: ASH SYSTEM BLR11 ASH HOPPER 1101	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1102	ASH-HOP-1102: ASH SYSTEM BLR11 ASH HOPPER 1102	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-HOP-1103	ASH-HOP-1103: ASH SYSTEM BLR11 ASH HOPPER 1103	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1104	ASH-HOP-1104: ASH SYSTEM BLR11 ASH HOPPER 1104	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1105	ASH-HOP-1105: ASH SYSTEM BLR11 ASH HOPPER 1105	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1106	ASH-HOP-1106: ASH SYSTEM BLR11 ASH HOPPER 1106	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1107	ASH-HOP-1107: ASH SYSTEM BLR11 ASH HOPPER 1107	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1108	ASH-HOP-1108: ASH SYSTEM BLR11 ASH HOPPER 1108	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1109	ASH-HOP-1109: ASH SYSTEM BLR11 ASH HOPPER 1109	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1110	ASH-HOP-1110: ASH SYSTEM BLR11 ASH HOPPER 1110	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1111	ASH-HOP-1111: ASH SYSTEM BLR11 ASH HOPPER 1111	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1112	ASH-HOP-1112: ASH SYSTEM BLR11 ASH HOPPER 1112	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-1114	ASH-HOP-1114: ASH SYSTEM BLR11 ASH HOPPER 1114	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-11BAN	ASH-HOP-11BAN: ASH SYSTEM BLR11 NORTH BOTTOM ASH PANTLEG HOPPER	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOP-11BAS	ASH-HOP-11BAS: ASH SYSTEM BLR11 SOUTH BOTTOM ASH PANTLEG HOPPER	SERIALIZED	HOPPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HOSE-001	ASH-HOSE-001: ASH SYSTEM UNLOADING RETRACTABLE HOSE	SERIALIZED	HOSE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-HPU-001	ASH-HPU-001: BLR10 BOTTOM ASH HPU	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-001	ASH-LS-001: ASH SYSTEM UPPER CYCLONE SEPARATOR (NEW SYSTEM) HIGH LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-002	ASH-LS-002: ASH SYSTEM LOWER CYCLONE SEPARATOR (NEW SYSTEM) HIGH LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1001A	ASH-LS-1001A: Ash System Hopper 1001 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1001B	ASH-LS-1001B: Ash System Hopper 1001 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1002A	ASH-LS-1002A: Ash System Hopper 1002 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-LS-1002B	ASH-LS-1002B:Â Ash System Hopper 1002 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1003A	ASH-LS-1003A:Â Ash System Hopper 1003 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1003B	ASH-LS-1003B:Â Ash System Hopper 1003 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1004A	ASH-LS-1004A:Â Ash System Hopper 1004 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1004B	ASH-LS-1004B:Â Ash System Hopper 1004 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1005A	ASH-LS-1005A:Â Ash System Hopper 1005 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1005B	ASH-LS-1005B:Â Ash System Hopper 1005 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1006A	ASH-LS-1006A:Â Ash System Hopper 1006 High High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-1006B	ASH-LS-1006B:Â Ash System Hopper 1006 High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-11BAN	ASH-LS-11BAN: ASH SYSTEM BLR11 ASH HOPPER 1114 HIGH LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-LS-11BAS	ASH-LS-11BAS: ASH SYSTEM BLR11 ASH HOPPER 1114 HIGH LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-001	ASH-MTR-001: ASH SYSTEM UNLOADING CONVEYOR MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-002	ASH-MTR-002: ASH SYSTEM UNLOADING ROTARY VANE FEEDER	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-003	ASH-MTR-003: ASH SYSTEM EXHAUSTER 1 (NORTH) MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-004	ASH-MTR-004: ASH SYSTEM EXHAUSTER 2 (SOUTH) MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-005	ASH-MTR-005: BLR10 BOTTOM ASH HPU MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-11BAN	ASH-MTR-11BAN: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH) MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-MTR-11BAS	ASH-MTR-11BAS: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH) MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-PIPE-001	ASH-PIPE-001: ASH SYSTEM PIPE	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-PMP-001	ASH-PMP-001: BLR10 BOTTOM ASH	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-RVF-001	ASH-RVF-001: ASH SYSTEM UNLOADING ROTARY VANE FEEDER	SERIALIZED	FEEDER ROTARY VANE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SEP-001	ASH-SEP-001: ASH SYSTEM UPPER CYCLONE SEPARATOR (NEW SYSTEM)	SERIALIZED	SEPARATORS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-SEP-002	ASH-SEP-002: ASH SYSTEM LOWER CYCLONE SEPARATOR (NEW SYSTEM)	SERIALIZED	SEPARATORS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SEP-003	ASH-SEP-003: ASH SYSTEM UPPER CYCLONE SEPARATOR (OLD SYSTEM)	SERIALIZED	SEPARATORS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SEP-004	ASH-SEP-004: ASH SYSTEM LOWER CYCLONE SEPARATOR (OLD SYSTEM)	SERIALIZED	SEPARATORS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SIL-001	ASH-SIL-001: ASH SYSTEM EXHAUSTER 1 SILENCER	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SIL-002	ASH-SIL-002: ASH SYSTEM EXHAUSTER 2 SILENCER	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SIL-003	ASH-SIL-003: ASH SYSTEM VACUUM BREAKER SILENCER BLR11 BASEMENT	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SILO-001	ASH-SILO-001: ASH SYSTEM SILO	SERIALIZED	SILO	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SPC-001	ASH-SPC-001: NEW ASH SYSTEM SPECTACLE BLIND FLANGE AIR SIDE (TOP	SERIALIZED	SPECTACLE BLIND FLANGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SPC-002	ASH-SPC-002: OLD ASH SYSTEM SPECTACLE BLIND FLANGE AIR SIDE (TOP	SERIALIZED	SPECTACLE BLIND FLANGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SPC-003	ASH-SPC-003: OLD ASH SYSTEM SPECTACLE BLIND FLANGE ASH SIDE	SERIALIZED	SPECTACLE BLIND FLANGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SPC-004	ASH-SPC-004: NEW ASH SYSTEM SPECTACLE BLIND FLANGE ASH SIDE	SERIALIZED	SPECTACLE BLIND FLANGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-STK-001,	ASH-STK-001: Ash Exhauster Stack Ops Title V EP-14b	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-SYS-001	ASH-SYS-001: ASH SYSTEM	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-001	ASH-TT-001: ASH SYSTEM EXHAUSTER 1 (NORTH) DISCHARGE TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-002	ASH-TT-002: ASH SYSTEM EXHAUSTER 2 (SOUTH) DISCHARGE TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-003	ASH-TT-003: ASH SYSTEM EXHAUSTER INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-1101	ASH-TT-1101: ASH SYSTEM HOPPER 1101 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-1102	ASH-TT-1102: ASH SYSTEM HOPPER 1102 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-1103	ASH-TT-1103: ASH SYSTEM HOPPER 1103 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-1104	ASH-TT-1104: ASH SYSTEM HOPPER 1104 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-1105	ASH-TT-1105: ASH SYSTEM HOPPER 1105 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-TT-1106	ASH-TT-1106: ASH SYSTEM HOPPER 1106 TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-11BAN1	ASH-TT-11BAN1: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH) INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-11BAN2	ASH-TT-11BAN2: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH) DISCHARGE TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-11BAS1	ASH-TT-11BAS1: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH) INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-TT-11BAS2	ASH-TT-11BAS2: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH) DISCHARGE TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-V-10FLY1	ASH-V-10FLY1: ASH SYSTEM BLR10 MAIN FLYASH CHAIN VALVE	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-001	ASH-VIB-001: ASH SYSTEM SILO	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1001A	ASH-VIB-1001A: Ash System Hopper 1001 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1001B	ASH-VIB-1001B: Ash System Hopper 1001 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1002A	ASH-VIB-1002A: Ash System Hopper 1002 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1002B	ASH-VIB-1002B: Ash System Hopper 1002 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1003A	ASH-VIB-1003A: Ash System Hopper 1003 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1003B	ASH-VIB-1003B: Ash System Hopper 1003 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1004A	ASH-VIB-1004A: Ash System Hopper 1004 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1004B	ASH-VIB-1004B: Ash System Hopper 1004 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1005A	ASH-VIB-1005A: Ash System Hopper 1005 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1005B	ASH-VIB-1005B: Ash System Hopper 1005 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1006A	ASH-VIB-1006A: Ash System Hopper 1006 Vibrator A North	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1006B	ASH-VIB-1006B: Ash System Hopper 1006 Vibrator B South	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ASH-VIB-1101	ASH-VIB-1101: ASH SYSTEM HOPPER 1101 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1102	ASH-VIB-1102: ASH SYSTEM HOPPER 1102 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1103	ASH-VIB-1103: ASH SYSTEM HOPPER 1103 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1104	ASH-VIB-1104: ASH SYSTEM HOPPER 1104 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1105	ASH-VIB-1105: ASH SYSTEM HOPPER 1105 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VIB-1106	ASH-VIB-1106: ASH SYSTEM HOPPER 1106 VIBRATOR	SERIALIZED	VIBRATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VS-001	ASH-VS-001: ASH SYSTEM HIGH HIGH VACUUM SWITCH (NEAR FINAL FILTER)	SERIALIZED	SWITCH VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ASH-VT-001	ASH-VT-001: ASH SYSTEM VACUUM TRANSMITTER (NEAR FINAL FILTER)	SERIALIZED	TRANSMITTER VAC DIFF	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-CE-2000	BDS-CE-2000: BLR12 CONTINUOUS BLOWDOWN CONDUCTIVITY PROBE	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-CT-2000	BDS-CT-2000: BLR12 CONTINUOUS BLOWDOWN CONDUCTIVITY	SERIALIZED	TRANSMITTER CONDUCTIVITY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-FCV-2004	BDS-FCV-2004: BLR12 CONTINUOUS BLOWDOWN CONTROL VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-FT-001	BDS-FT-001: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 1 WEST	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-FT-002	BDS-FT-002: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2	SERIALIZED	TANK BLOWDOWN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-HX-010	BDS-HX-010: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 1 WEST HEAT EXCHANGER HEX	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-HX-011	BDS-HX-011: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-LC-2000	BDS-LC-2000: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2 EAST BDS-FT-002 LEVEL CONTROLLER	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-LSH-001	BDS-LSH-001: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 1 WEST BDS-FT-001 HI LEVEL SWITCH	SERIALIZED	LEVEL INDICATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-LSH-2000	BDS-LSH-2000: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2 EAST BDS-FT-002 HI LEVEL SWITCH	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-SG-002	BDS-SG-002: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 1 WEST SIGHT	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BDS-SG-2000	BDS-SG-2000: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BDS-SYS-001	BDS-SYS-001: Blow Down System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1001	BH10-AT-1001:Â BLR10 Baghouse Compartment 1 (1001) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1002	BH10-AT-1002:Â BLR10 Baghouse Compartment 2 (1002) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1003	BH10-AT-1003:Â BLR10 Baghouse Compartment 3 (1003) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1004	BH10-AT-1004:Â BLR10 Baghouse Compartment 4 (1004) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1005	BH10-AT-1005:Â BLR10 Baghouse Compartment 5 (1005) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-AT-1006	BH10-AT-1006:Â BLR10 Baghouse Compartment 6 (1006) Discharge Particulate Detector	SERIALIZED	PARTICULATE DETECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1001	BH10-COMP-1001:Â BLR10 Baghouse Compartment 1 (1001)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1002	BH10-COMP-1002:Â BLR10 Baghouse Compartment 2 (1002)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1003	BH10-COMP-1003:Â BLR10 Baghouse Compartment 3 (1003)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1004	BH10-COMP-1004:Â BLR10 Baghouse Compartment 4 (1004)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1005	BH10-COMP-1005:Â BLR10 Baghouse Compartment 5 (1005)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-COMP-1006	BH10-COMP-1006:Â BLR10 Baghouse Compartment 6 (1006)	SERIALIZED	COMPARTMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1001A	BH10-DMP-1001A:Â BLR10 Baghouse Compartment 1 (1001) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1001B	BH10-DMP-1001B:Â BLR10 Baghouse Compartment 1 (1001) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1002A	BH10-DMP-1002A:Â BLR10 Baghouse Compartment 2 (1002) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1002B	BH10-DMP-1002B:Â BLR10 Baghouse Compartment 2 (1002) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BH10-DMP-1003A	BH10-DMP-1003A:Â BLR10 Baghouse Compartment 3 (1003) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1003B	BH10-DMP-1003B:Â BLR10 Baghouse Compartment 3 (1003) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1004A	BH10-DMP-1004A:Â BLR10 Baghouse Compartment 4 (1004) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1004B	BH10-DMP-1004B:Â BLR10 Baghouse Compartment 4 (1004) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1005A	BH10-DMP-1005A:Â BLR10 Baghouse Compartment 5 (1005) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1005B	BH10-DMP-1005B:Â BLR10 Baghouse Compartment 5 (1005) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1006A	BH10-DMP-1006A:Â BLR10 Baghouse Compartment 6 (1006) Inlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DMP-1006B	BH10-DMP-1006B:Â BLR10 Baghouse Compartment 6 (1006) Outlet Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1001A	BH10-DPT-1001A:Â BLR10 Baghouse Compartment 1 (1001) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1002A	BH10-DPT-1002A:Â BLR10 Baghouse Compartment 2 (1002) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1003A	BH10-DPT-1003A:Â BLR10 Baghouse Compartment 3 (1003) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1004A	BH10-DPT-1004A:Â BLR10 Baghouse Compartment 4 (1004) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1005A	BH10-DPT-1005A:Â BLR10 Baghouse Compartment 5 (1005) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-DPT-1006A	BH10-DPT-1006A:Â BLR10 Baghouse Compartment 6 (1006) Differential Pressure Transmitter	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-HTR-1001	BH10-HTR-1001:Â BLR10 Baghouse Compartment 1 (Ash Hopper 1001) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-HTR-1002	BH10-HTR-1002:Â BLR10 Baghouse Compartment 2 (Ash Hopper 1002) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BH10-HTR-1003	BH10-HTR-1003:Â BLR10 Baghouse Compartment 3 (Ash Hopper 1003) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-HTR-1004	BH10-HTR-1004:Â BLR10 Baghouse Compartment 4 (Ash Hopper 1004) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-HTR-1005	BH10-HTR-1005:Â BLR10 Baghouse Compartment 5 (Ash Hopper 1005) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-HTR-1006	BH10-HTR-1006:Â BLR10 Baghouse Compartment 6 (Ash Hopper 1006) Hopper Heater	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1001	BH10-IR-1001:Â BLR10 Baghouse Compartment 1 (Ash Hopper 1001) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1002	BH10-IR-1002:Â BLR10 Baghouse Compartment 2 (Ash Hopper 1002) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1003	BH10-IR-1003:Â BLR10 Baghouse Compartment 3 (Ash Hopper 1003) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1004	BH10-IR-1004:Â BLR10 Baghouse Compartment 4 (Ash Hopper 1004) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1005	BH10-IR-1005:Â BLR10 Baghouse Compartment 5 (Ash Hopper 1005) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1006	BH10-IR-1006:Â BLR10 Baghouse Compartment 6 (Ash Hopper 1006) IR	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-IR-1011	BH10-IR-1011:Â BLR10 Baghouse Inlet IR Sensor	SERIALIZED	IR SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1001A	BH10-TT-1001A:Â BLR10 Baghouse Compartment 1 (1001) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1001B	BH10-TT-1001B:Â BLR10 Baghouse Ash Hopper 1001 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1002A	BH10-TT-1002A:Â BLR10 Baghouse Compartment 2 (1002) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1002B	BH10-TT-1002B:Â BLR10 Baghouse Ash Hopper 1002 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1003A	BH10-TT-1003A:Â BLR10 Baghouse Compartment 3 (1003) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1003B	BH10-TT-1003B:Â BLR10 Baghouse Ash Hopper 1003 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BH10-TT-1004A	BH10-TT-1004A:Â BLR10 Baghouse Compartment 4 (1004) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1004B	BH10-TT-1004B:Â BLR10 Baghouse Ash Hopper 1004 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1005A	BH10-TT-1005A:Â BLR10 Baghouse Compartment 5 (1005) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1005B	BH10-TT-1005B:Â BLR10 Baghouse Ash Hopper 1005 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1006A	BH10-TT-1006A:Â BLR10 Baghouse Compartment 6 (1006) Flue Gas Outlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1006B	BH10-TT-1006B:Â BLR10 Baghouse Ash Hopper 1006 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1011	BH10-TT-1011:Â BLR10 Baghouse Inlet Temperature Transmitter (Redundant Transmitter with BH10-TT-1012)	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BH10-TT-1012	BH10-TT-1012:Â BLR10 Baghouse Inlet Temperature Transmitter (Redundant Transmitter with BH10-TT-1011)	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-001	BIO-AUG-001: Biomass System Oat East Conveying Screw	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-002	BIO-AUG-002: Biomass System Oat West Conveying Screw	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-003	BIO-AUG-003: Biomass System Oat Silo Unloading KICE Filter DRC Rotary Vane Feeder Discharge Screw Ops Title V	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-004	BIO-AUG-004: Biomass System Oat Silo Conveying System DRC Rotary Vane Feeder Discharge Screw (bottom of silo)	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-301	BIO-AUG-301: Biomass System Oat Unloading East Screw	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-AUG-302	BIO-AUG-302: Biomass System Oat Unloading West Screw	SERIALIZED	AUGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-BLWR-101	BIO-BLWR-101: Biomass System Oat Conveying Blower South	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-BLWR-201	BIO-BLWR-201: Biomass System Oat Conveying Blower North	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-DRC-001	BIO-DRC-001: Biomass Oat Silo Unloading KICE Filter DRC Ops Title V	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BIO-DRC-002	BIO-DRC-002: Biomass Oat Silo DRC Ops Title V EP-40	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-DRC-003	BIO-DRC-003: Biomass System Oat Silo Conveying System DRC (bottom of silo)	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-EXH-301	BIO-EXH-301: Biomass System Oat Unloading Exhauster	SERIALIZED	EXHAUSTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FCV-001	BIO-FCV-001: Biomass System Oat Sampler Slide Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FCV-101	BIO-FCV-101: Biomass System Oat East Conveying Rotary Vane Feeder Inlet	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FCV-201	BIO-FCV-201: Biomass System Oat West Conveying Rotary Vane Feeder Inlet	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FIL-101	BIO-FIL-101: Biomass System Oat Conveying Blower South Inlet Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FIL-201	BIO-FIL-201: Biomass System Oat Conveying Blower North Inlet Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FIL-301	BIO-FIL-301: Biomass System Oat Unloading Exhauster Inlet Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-FT-301	BIO-FT-301: Biomass System Oat Unloading Flow Transmitter	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-LS-001	BIO-LS-001: Biomass System Oat Silo High Level Switch	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-LT-001	BIO-LT-001: Biomass System Oat Silo Bib-Bob Level Transmitter	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-LT-002	BIO-LT-002: Biomass System Oat Silo Radar Level Transmitter	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-001	BIO-MTR-001: Biomass System Oat East and West Conveying Screws Shared	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-002	BIO-MTR-002: Biomass System Oat Sampler Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-003	BIO-MTR-003: Biomass System Oat Silo Unloading KICE Filter DRC Rotary Vane Feeder Discharge Screw Motor Ops Title	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-004	BIO-MTR-004: Biomass System Oat Silo Conveying System DRC Rotary Vane Feeder Discharge Screw Motor (bottom	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-101	BIO-MTR-101: Biomass System Oat East Conveying Rotary Vane Feeder Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-102	BIO-MTR-102: Biomass System Oat Conveying Blower South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-201	BIO-MTR-201: Biomass System Oat West Conveying Rotary Vane Feeder	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BIO-MTR-202	BIO-MTR-202: Biomass System Oat Conveying Blower North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-301	BIO-MTR-301: Biomass System Oat Unloading East Screw Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-302	BIO-MTR-302: Biomass System Oat Unloading West Screw Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-MTR-303	BIO-MTR-303: Biomass System Oat Unloading Exhauster Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PIPE-001	BIO-PIPE-001: Biomass System Oat Pipe	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PS-101	BIO-PS-101: Biomass System Oat Conveying Blower South Low Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PS-201	BIO-PS-201: Biomass System Oat Conveying Blower North Low Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PSV-101	BIO-PSV-101: Biomass System Oat Conveying Blower South Pressure Safety	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PSV-201	BIO-PSV-201: Biomass System Oat Conveying Blower North Pressure Safety	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PSV-301	BIO-PSV-301: Biomass System Oat Unloading Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-001	BIO-PT-001: Biomass System Oat Conveying Line to BLR11 Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-002	BIO-PT-002: Biomass System Oat Conveying Line to BLR11 Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-003	BIO-PT-003: Biomass System Oat Conveying Line to BLR11 Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-004	BIO-PT-004: Biomass System Oat Conveying Line to BLR11 Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-101	BIO-PT-101: Biomass System Oat Conveying Blower South Outlet Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-201	BIO-PT-201: Biomass System Oat Conveying Blower North Outlet Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-PT-301	BIO-PT-301: Biomass System Oat Unloading Exhauster Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-RVF-003	BIO-RVF-003: Biomass System Oat Silo Conveying System DRC Rotary Vane Feeder (bottom of silo)	SERIALIZED	FEEDER ROTARY VANE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-RVF-004	BIO-RVF-004: Biomass System Oat Silo Unloading KICE Filter DRC Rotary Vane Feeder Ops Title V EP-41	SERIALIZED	FEEDER ROTARY VANE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-RVF-101	BIO-RVF-101: Biomass System Oat East Conveying Rotary Vane Feeder	SERIALIZED	FEEDER ROTARY VANE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BIO-RVF-201	BIO-RVF-201: Biomass System Oat West Conveying Rotary Vane Feeder	SERIALIZED	FEEDER ROTARY VANE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-101	BIO-SIL-101: Biomass System Oat Conveying Blower South Inlet Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-102	BIO-SIL-102: Biomass System Oat Conveying Blower South Discharge	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-201	BIO-SIL-201: Biomass System Oat Conveying Blower North Inlet Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-202	BIO-SIL-202: Biomass System Oat Conveying Blower North Discharge	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-301	BIO-SIL-301: Biomass System Oat Unloading Exhauster Inside Silencer DRC	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-302	BIO-SIL-302: Biomass System Oat Unloading Exhauster Inside Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-303	BIO-SIL-303: Biomass System Oat Unloading Exhauster First Outside Silencer Discharge Side	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SIL-304	BIO-SIL-304: Biomass System Oat Unloading Exhauster Second Outside Silencer Discharge Side	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SV-301	BIO-SV-301: Biomass System Oat Unloading Exhauster Safety Valve South	SERIALIZED	VALVE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SV-302	BIO-SV-302: Biomass System Oat Unloading Exhauster Safety Valve North	SERIALIZED	VALVE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-SYS-001	BIO-SYS-001: Biomass System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BIO-VS-301	BIO-VS-301: Biomass System Oat Unloading Exhauster High Vacuum	SERIALIZED	SWITCH VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-BH-1000	BLR10-BH-1000: BLR10 Baghouse	SERIALIZED	BAGHOUSE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-DPT-001	BLR10-DPT-001:Â BLR10 Mechanical Collector (Multiclone) Differential	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-DPT-002	BLR10-DPT-002:Â BLR10 Baghouse Overall Differential Pressure Transmitter (Triple Redundant)	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-DPT-003	BLR10-DPT-003:Â BLR10 Baghouse Overall Differential Pressure Transmitter (Triple Redundant)	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-DPT-004	BLR10-DPT-004:Â BLR10 Baghouse Overall Differential Pressure Transmitter (Triple Redundant)	SERIALIZED	TRANSMITTER DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-FT-1001	BLR10-FT-1001:Â BLR10 CAMS 01 PA Fan Fresh Air Flow Monitoring System	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR10-FT-1002	BLR10-FT-1002:Â BLR10 CAMS 02 Burner Fan Fresh Air Monitoring System	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-FT-1003	BLR10-FT-1003:Â BLR10 CAMS 03 Burner Fan FGR Flow Monitoring System	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-FT-1004	BLR10-FT-1004:Â BLR10 CAMS 04 PA Fan FGR Flow Monitoring System	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-FT-1005	BLR10-FT-1005:Â BLR10 CAMS 05 SA Fan Air Flow Monitoring System	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-FT-1006	BLR10-FT-1006:Â BLR10 CAMS 06 Total Air Flow Monitoring System (CEMS)	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-MC-1000	BLR10-MC-1000: BLR10 Multiclones Ops Title V EP-6	SERIALIZED	MULTICLONES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-O2-1001	BLR10-O2-1001:Â BLR10 Stack O2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-PT-1001	BLR10-PT-1001:Â BLR10 Stack Inlet Breeching Pressure Transmitter (CEMS)	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR10-TT-1001	BLR10-TT-1001:Â BLR10 Stack Inlet Breeching Temperature Transmitter	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR11-BH-1100	BLR11-BH-1100: BLR11 Baghouse E/I Title V EP-7	SERIALIZED	BAGHOUSE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR11-MTR-1102	BLR11-MTR-1102: BLR11 PA Fan Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR11-O2-1101	BLR11-O2-1101:Â BLR11 Stack O2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR11-PT-1101	BLR11-PT-1101:Â BLR11 Stack Inlet Breeching Pressure Transmitter (CEMS)	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR11-TT-1101	BLR11-TT-1101:Â BLR11 Stack Inlet Breeching Temperature Transmitter	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-AIT-001	BLR12-AIT-001: BLR12 OXYGEN	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-BMS-001	BLR12-BMS-001: BLR12 BURNER MANAGEMENT SYSTEM	SERIALIZED	BURNER MANAGEMENT SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-BRN-001	BLR12-BRN-001: BLR12 BURNER	SERIALIZED	BURNER MANAGEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-CBD-001	BLR12-CBD-001: BLR12 CONTINUOUS BLOWDOWN SYSTEM	SERIALIZED	CBD SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DMP-001	BLR12-DMP-001: BLR12 FD FAN OUTLET DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DMP-002	BLR12-DMP-002: BLR12 STACK DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DMP-003	BLR12-DMP-003: BLR12 FGR DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DMP-004	BLR12-DMP-004: BLR12 FRESH AIR	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DMP-005	BLR12-DMP-005: BLR12 MAKEUP AIR UNIT FAN DAMPER	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DPS-003	BLR12-PS-003: BLR12 LOW PURGE AIR FLOW SWITCH	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-DRUM-001	BLR12-DRUM-001: BLR12 STEAM DRUM	SERIALIZED	STEAM DRUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR12-DSH-001	BLR12-DSH-001: BLR12 DESUPERHEATER SYSTEM	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-ECON-001	BLR12-ECON-001: BLR12 ECONOMIZER	SERIALIZED	ECONOMIZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-001	BLR12-EJ-001: BLR12 FD FAN INLET EXPANSION JOINT	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-002	BLR12-EJ-002: BLR12 FD FAN OUTLET EXPANSION JOINT	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-003	BLR12-EJ-003: BLR12 FURNACE OUTLET EXPANSION JOINT	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-004	BLR12-EJ-004: BLR12 ECONOMIZER INLET EXPANSION JOINT	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-005	BLR12-EJ-005: BLR12 STACK INLET EXPANSION JOINT	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-EJ-006	BLR12-EJ-006: BLR12 FGR EXPANSION	SERIALIZED	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FAN-001	BLR12-FAN-001: BLR12 FD FAN	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FAN-002	BLR12-FAN-002: BLR12 MAKEUP AIR	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCV-001	BLR12-FCV-001: BLR12 FEEDWATER FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCV-002	BLR12-FCV-002: BLR12 STARTUP STEAM VENT FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCZ-001	BLR12-FCZ-001: BLR12 FD FAN OUTLET DAMPER ACTUATOR	SERIALIZED	ACTUATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCZ-002	BLR12-FCZ-002: BLR12 STACK DAMPER ACTUATOR	SERIALIZED	ACTUATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCZ-003	BLR12-FCZ-003: BLR12 FGR DAMPER ACTUATOR	SERIALIZED	ACTUATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FCZ-004	BLR12-FCZ-004: BLR12 FD FAN FRESH AIR DAMPER ACTUATOR	SERIALIZED	ACTUATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-001	BLR12-FE-001: BLR12 FD FAN FRESH AIR INLET FLOW ELEMENT - PITOT TUBE	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-002	BLR12-FE-002: BLR12 FGR FLOW ELEMENT - PITOT TUBE	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-003	BLR12-FE-003: BLR12 FEEDWATER DIFFERENTIAL PRESSURE FLOW	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-004	BLR12-FE-004: BLR12 HPS OUTLET STEAM FLOW ELEMENT	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-005	BLR12-FE-005: BLR12 DESUPERHEATER ATTEMPORATOR WATER FLOW	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-006	BLR12-FE-006: BLR12 GAS DIFFERENTIAL PRESSURE FLOW	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FE-007	BLR12-FE-007: BLR12 HEADER HEATER FLOW ELEMENT HPS	SERIALIZED	FLOW ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR12-FG-001	BLR12-FG-001: BLR12 FLUE GAS	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FIT-003	BLR12-FIT-003: BLR12 FEEDWATER FLOW TRANSMITTER	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FIT-004	BLR12-FIT-004: BLR12 HPS OUTLET STEAM FLOW TRANSMITTER	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FIT-005	BLR12-FIT-005: BLR12 DESUPERHEATER WATERFLOW TRANSMITTER	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FIT-006	BLR12-FIT-006: BLR12 GAS FLOW	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FIT-007	BLR12-FIT-007: BLR12 HEADER HEATER FLOW TRANSMITTER HPS	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FT-001	BLR12-FT-001: BLR12 FD FAN FRESH AIR INLET FLOW TRANSMITTER	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FT-002	BLR12-FT-002: BLR12 FGR FLOW	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-FW-001	BLR12-FW-001: BLR12 FEEDWATER	SERIALIZED	FEED WATER SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-GAS-001	BLR12-GAS-001: BLR12 GAS SYSTEM	SERIALIZED	GAS SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-HH-001	BLR12-HH-001: BLR12 LOWER HEADER	SERIALIZED	HEADER HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-HS-001	BLR12-HS-001: BLR12 AUX LWCO BYPASS PUSH BUTTON	SERIALIZED	SWITCH HAND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-HS-002	BLR12-HS-002: BLR12 WATER COLUMN LO BYPASS PUSH BUTTON	SERIALIZED	SWITCH HAND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-HS-003	BLR12-HS-003: BLR12 WATER COLUMN LO-LO BYPASS PUSH BUTTON	SERIALIZED	SWITCH HAND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-IGN-001	BLR12-IGN-001: BLR12 BURNER	SERIALIZED	IGNITOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LE-001	BLR12-LE-001: BLR12 SOUTH STEAM DRUM WATER COLUMN	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LE-002	BLR12-LE-002: BLR12-AUX LWCO WATER COLUMN NORTH	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LG-001	BLR12-LG-001: BLR12 STEAM DRUM SOUTH WATER COLUMN GAGE GLASS	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LG-002	BLR12-LG-002: BLR12 STEAM DRUM NORTH WATER COLUMN GAGE GLASS	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LI-001	BLR12-LI-001: BLR12 STEAM DRUM LEVEL CONTROL ROOM DISPLAY 1	SERIALIZED	LEVEL INDICATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LI-002	BLR12-LI-002: BLR12 DRUM LEVEL CONTROL ROOM DISPLAY 2	SERIALIZED	LEVEL INDICATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LSH-004	BLR12-LSH-004: BLR12 STEAM DRUM LEVEL SWITCH HI	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LSHH-005	BLR12-LSHH-005: BLR12 STEAM DRUM LEVEL SWITCH HI-HI	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LSL-003	BLR12-LSL-003: BLR12 STEAM DRUM LEVEL SWITCH LO	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR12-LSLL-001	BLR12-LSLL-001: BLR12 STEAM DRUM LEVEL SWITCH LO-LO NORTH	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LSLL-002	BLR12-LSLL-002: BLR12 STEAM DRUM LEVEL SWITCH LO-LO SOUTH	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LT-001	BLR12-LT-001: BLR12 STEAM DRUM LEVEL TRANSMITTER 1 NORTH	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LT-002	BLR12-LT-002: BLR12 STEAM DRUM LEVEL TRANSMITTER 2	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-LT-003	BLR12-LT-003: BLR12 STEAM DRUM LEVEL TRANSMITTER 3	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-MAU-001	BLR12-MAU-001: BLR12 MAKEUP AIR	SERIALIZED	AIR SUPPLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-MTR-001	BLR12-MTR-001: BLR12 FD FAN MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-MTR-002	BLR12-MTR-002: BLR12 MAKEUP AIR UNIT FAN MOTOR	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PCV-004	BLR12-PCV-004: BLR12 HEADER HEATER PRESSURE CONTROL VALVE HPS	SERIALIZED	VALVE CONTROL PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-001	BLR12-PIT-001: BLR12 FD FAN INLET PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-002	BLR12-PIT-002: BLR12 FD FAN OUTLET PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-003	BLR12-PIT-003: BLR12 FURNACE PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-004	BLR12-PIT-004: BLR12 FLUE GAS ECONOMIZER INLET PRESSURE	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-005	BLR12-PIT-005: BLR12 FLUE GAS STACK INLET PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-006	BLR12-PIT-006: BLR12 FEEDWATER ECONOMIZER INLET PRESSURE	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-007	BLR12-PIT-007: BLR12 FEEDWATER ECONOMIZER OUTLET PRESSURE	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-008	BLR12-PIT-008: BLR12 STEAM DRUM PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-009	BLR12-PIT-009: BLR12 SUPERHEATER STEAM PRESSURE TRANSMITTER HPS	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PIT-010	BLR12-PIT-010: BLR12 STEAM HEADER PRESSURE TRANSMITTER HPS	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PS-006	BLR12-PS-006: BLR12 BURNER WINDBOX MINIMUM AIR FLOW SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PS-006-A	BLR12-PS-006-A: BLR12 LOW COMBUSTION AIR FLOW SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSH-004	BLR12-PSH-004: BLR12 DRUM HI STEAM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR12-PSHH-002	BLR12-PSHH-002: BLR12 HI-HI FURNACE PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSHH-005	BLR12-PSHH-005: BLR12 DRUM HI-HI STEAM PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSL-001	BLR12-PSL-001: BLR12 FD FAN INLET LO PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSV-001	BLR12-PSV-001: BLR12 ECONOMIZER SAFETY VALVE	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSV-002	BLR12-PSV-002: BLR12 DRUM HIGH SAFETY VALVE	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSV-003	BLR12-PSV-003: BLR12 DRUM LOW SAFETY VALVE	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-PSV-004	BLR12-PSV-004: BLR12 SUPERHEATER SAFETY VALVE	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-REF-001	BLR12-REF-001: BLR12 REFRACTORY	SERIALIZED	REFRACTORY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-SCN-001	BLR12-SCN-001: BLR12 FLAME	SERIALIZED	SCANNER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-SCN-002	BLR12-SCN-002: BLR12 FLAME	SERIALIZED	SCANNER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-SIL-001	BLR12-SIL-001: BLR12 FD FAN FRESH AIR INLET SILENCER	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-SIL-002	BLR12-SIL-002: BLR12 STARTUP STEAM VENT SILENCER	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-STK-001	BLR12-STK-001: BLR12 STACK	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-STM-001	BLR12-STM-001: BLR12 STEAM SYSTEM	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TCV-003	BLR12-TCV-003: BLR12 DSH WATER BLOCK VALVE ATTEMPORATOR	SERIALIZED	VALVE CONTROL TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TCV-005	BLR12-TCV-005: BLR12 DSH WATER CONTROL VALVE ATTEMPORATOR	SERIALIZED	VALVE CONTROL TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-001	BLR12-TIT-001: BLR12 FD FAN FRESH AIR TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-002	BLR12-TIT-002: BLR12 FD FAN INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-003	BLR12-TIT-003: BLR12 FD FAN INBOARD BEARING TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-004	BLR12-TIT-004: BLR12 FD FAN OUTBOARD BEARING TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-005	BLR12-TIT-005: BLR12 FLUE GAS ECONOMIZER INLET TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-006	BLR12-TIT-006: BLR12 FLUE GAS STACK INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-007	BLR12-TIT-007: BLR12 FEEDWATER ECONOMIZER INLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR12-TIT-008	BLR12-TIT-008: BLR12 FEEDWATER ECONOMIZER OUTLET TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-009	BLR12-TIT-009: BLR12 DRUM OUTLET STEAM TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-010	BLR12-TIT-010: BLR12 SUPERHEATER OUTLET STEAM TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-011	BLR12-TIT-011: BLR12 OUTLET STEAM TEMPERATURE TRANSMITTER 1	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-012	BLR12-TIT-012: BLR12 OUTLET STEAM TEMPERATURE TRANSMITTER 2	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-013	BLR12-TIT-013: BLR12 OUTLET STEAM TEMPERATURE TRANSMITTER 3	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-014	BLR12-TIT-014: BLR12 FD FAN MOTOR INBOARD BEARING TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TIT-015	BLR12-TIT-015: BLR12 FD FAN MOTOR OUTBOARD BEARING TEMPERATURE TRANSMITTER	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TUBE-001	BLR12-TUBE-001: BLR12 GENERATING	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-TUBE-002	BLR12-TUBE-002: BLR12 SUPERHEATER	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-VFD-001	BLR12-VFD-001: BLR12 FD FAN MOTOR	SERIALIZED	VARIABLE FREQUENCY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-VT-001	BLR12-VT-001: BLR12 FD FAN INBOARD BEARING VIBRATION TRANSMITTER	SERIALIZED	TRANSMITTER VIBRATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR12-VT-002	BLR12-VT-002: BLR12 FD FAN OUTBOARD BEARING VIBRATION	SERIALIZED	TRANSMITTER VIBRATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-AIT-701	BLR7-AIT-701: BLR7 Stack O2 Analyzer	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-BMS-701	BLR7-BMS-701: BLR7 BMS	SERIALIZED	BURNER MANAGEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-BRN-701	BLR7-BRN-701: BLR7 Burner Assembly	SERIALIZED	BURNER ASSEMBLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-CBD-701	BLR7-CBD-701: BLR7 Continuous Blowdown System	SERIALIZED	CBD SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-DMP-701	BLR7-DMP-701: BLR7 Draft Damper	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-DMP-702	BLR7-DMP-702: BLR7 FD Fan Outlet	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-DMP-703	BLR7-DMP-703: BLR7 FD Fan Inlet	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-DMP-704	BLR7-DMP-704: BLR7 FGR Damper	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-DRUM-701	BLR7-DRUM-701: BLR7 Steam Drum	SERIALIZED	STEAM DRUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-ECON-701	BLR7-ECON-701: BLR7 Economizer	SERIALIZED	ECONOMIZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-FAN-701	BLR7-FAN-701: BLR7 FD Fan	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-FT-701	BLR7-FT-701: BLR7 FD Fan Flow	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-FW-701	BLR7-FW-701: BLR7 Feedwater System	SERIALIZED	FEED WATER SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-HH-701	BLR7-HH-701: BLR7 East Lower Header	SERIALIZED	HEADER HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-HH-702	BLR7-HH-702: BLR7 West Lower Header	SERIALIZED	HEADER HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR7-LC-701	BLR7-LC-701: BLR7 Drum Level Column	SERIALIZED	LEVEL COLUMN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-LG-701	BLR7-LG-701: BLR7 East Drum Sight	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-LG-702	BLR7-LG-702: BLR7 West Drum Sight	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-LT-701	BLR7-LT-701: BLR7 DRUM LEVEL TRANSMITTER 1 (UPPER)	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-LT-702	BLR7-LT-702: BLR7 DRUM LEVEL TRANSMITTER 2 (LOWER)	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-MTR-701	BLR7-MTR-701: BLR7 FD Fan Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-MTR-702	BLR7-MTR-702: BLR7 FD Fan Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PS-701	BLR7-PS-701: BLR7 Purge Air Pressure Switch High	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PS-702	BLR7-PS-702: BLR7 Furnace Pressure Switch High	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PS-703	BLR7-PS-703: BLR7 Drum Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PS-704	BLR7-PS-704: BLR7 FD Fan Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PSV-701	BLR7-PSV-701: BLR7 Drum Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PSV-702	BLR7-PSV-702: BLR7 Drum Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PT-701	BLR7-PT-701: BLR7 Drum Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PT-702	BLR7-PT-702: BLR7 Furnace Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PT-703	BLR7-PT-703: BLR7 Stack Inlet Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-PT-704	BLR7-PT-704: BLR7 Outlet Steam Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-REF-701	BLR7-REF-701: BLR7 Refractory	SERIALIZED	REFRACTORY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-STK-701	BLR7-STK-701: BLR7 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TT-701	BLR7-TT-701: BLR7 Stack Inlet Temperature Transmitter (Lower)	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TT-702	BLR7-TT-702: BLR7 Stack Inlet Temperature Transmitter (Upper)	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TT-703	BLR7-TT-703: BLR7 Flue Gas Economizer Inlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TT-704	BLR7-TT-704: BLR7 Feedwater Economizer Inlet Temperature	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TT-705	BLR7-TT-705: BLR7 Feedwater Economizer Outlet Temperature	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TUBE-701	BLR7-TUBE-701: BLR7 Generating Tubes	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR7-TUBE-702	BLR7-TUBE-702: BLR7 SuperHeater	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-AIT-801	BLR8-AIT-801: BLR8 Stack O2 Analyzer	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-BMS-801	BLR8-BMS-801: BLR8 BMS	SERIALIZED	BURNER MANAGEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR8-BRN-801	BLR8-BRN-801: BLR8 Burner Assembly	SERIALIZED	BURNER ASSEMBLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-CBD-801	BLR8-CBD-801: BLR8 Continuous Blowdown System	SERIALIZED	CBD SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-DMP-801	BLR8-DMP-801: BLR8 Draft Damper	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-DMP-802	BLR8-DMP-802: BLR8 FD Fan Outlet	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-DMP-803	BLR8-DMP-803: BLR8 FD Fan Inlet	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-DMP-804	BLR8-DMP-804: BLR8 FGR Damper	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-DRUM-801	BLR8-DRUM-801: BLR8 Steam Drum	SERIALIZED	STEAM DRUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-ECON-801	BLR8-ECON-801: BLR8 Economizer	SERIALIZED	ECONOMIZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-FAN-801	BLR8-FAN-801: BLR8 FD Fan	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-FT-801	BLR8-FT-801: BLR8 FD Fan Flow	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-FW-801	BLR8-FW-801: BLR8 Feedwater System	SERIALIZED	FEED WATER SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-HH-801	BLR8-HH-801: BLR8 East Lower Header	SERIALIZED	HEADER HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-HH-802	BLR8-HH-802: BLR8 West Lower Header	SERIALIZED	HEADER HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-LC-801	BLR8-LC-801: BLR8 Drum Level Column	SERIALIZED	LEVEL COLUMN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-LG-801	BLR8-LG-801: BLR8 East Drum Sight	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-LG-802	BLR8-LG-802: BLR8 West Drum Sight	SERIALIZED	LEVEL SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-LT-801	BLR8-LT-801: BLR8 DRUM LEVEL TRANSMITTER 1 (UPPER)	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-LT-802	BLR8-LT-802: BLR8 DRUM LEVEL TRANSMITTER 2 (LOWER)	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-MTR-801	BLR8-MTR-801: BLR8 FD Fan Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-MTR-802	BLR8-MTR-802: BLR8 FD Fan Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PS-801	BLR8-PS-801: BLR8 Purge Air Pressure Switch High	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PS-802	BLR8-PS-802: BLR8 FURNACE PRESSURE SWITCH HIGH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PS-803	BLR8-PS-803: BLR8 Drum Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PS-804	BLR8-PS-804: BLR8 FD Fan Pressure	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PSV-801	BLR8-PSV-801: BLR8 Drum Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PSV-802	BLR8-PSV-802: BLR8 Drum Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PT-801	BLR8-PT-801: BLR8 Stack Inlet Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PT-802	BLR8-PT-802: BLR8 FURNACE PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PT-803	BLR8-PT-803: BLR8 Drum Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-PT-806	BLR8-PT-806: BLR8 Drum Pressure	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-REF-801	BLR8-REF-801: BLR8 Refractory	SERIALIZED	REFRACTORY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-STK-801	BLR8-STK-801: BLR8 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BLR8-TT-801	BLR8-TT-801: BLR8 Stack Inlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-TT-802	BLR8-TT-802: BLR8 Flue Gas Economizer Inlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-TT-803	BLR8-TT-803: BLR8 Feedwater Economizer Inlet Temperature	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-TT-804	BLR8-TT-804: BLR8 Feedwater Economizer Outlet Temperature	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-TUBE-801	BLR8-TUBE-801: BLR8 Generating Tubes	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BLR8-TUBE-802	BLR8-TUBE-802: BLR8 SuperHeater	SERIALIZED	TUBES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BOS-FCV-701	BOS-FCV-701: BLR7 Superheater Damper (steam temperature control valve)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BOS-FCV-801	BOS-FCV-801: BLR8 Superheater Damper (steam temperature control valve)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BOS-FT-102	BOS-FT-102: BOILER BLOWOFF TANK 2	SERIALIZED	TANK BLOWDOWN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BOS-SG-2000	BOS-SG-2000: BOILER BLOWOFF TANK 2 NORTH SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
BOS-SYS-001	BOS-SYS-001: Blow Off System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CAH-SYS-001	CAH-SYS-001: Combustion Air Heater	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CAS-01E	CEMS-CAS-01E: CEMS East Clean Air	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CAS-02W	CEMS-CAS-02W: CEMS West Clean Air System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CC-01N	CEMS-CC-01N: CEMS North Cabinet	SERIALIZED	CABINET COOLER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CC-02S	CEMS-CC-02S: CEMS South Cabinet	SERIALIZED	CABINET COOLER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CC-03	CEMS-CC-03: Blr12 CEMS Cabinet	SERIALIZED	CABINET COOLER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CGS-01N	CEMS-CGS-01N: BLR7 & BLR8 CEMS Calibration Gas Station	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CGS-02S	CEMS-CGS-02S: BLR10 & BLR11 CEMS Calibration Gas Station	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CGS-03	CEMS-CGS-03: Blr12 CEMS Calibration Gas System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO-1006	CEMS-CO-1006: BLR10 CEMS CO	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO2-1002	CEMS-CO2-1002: BLR10 CEMS CO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO2-1102	CEMS-CO2-1102: BLR11 CEMS CO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO2-1201	CEMS-CO2-1201: Blr12 CEMS CO2 and NOX Analyzer	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO2-702	CEMS-CO2-702: BLR7 CEMS CO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-CO2-802	CEMS-CO2-802: BLR8 CEMS CO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DAS-001	CEMS-DAS-001: CEMS Data Acquisition System (DAS)	SERIALIZED	DATA ACQUISITION SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DIP-1001	CEMS-DIP-1001: BLR10 CEMS Dilution	SERIALIZED	DILUTION PLATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DIP-1101	CEMS-DIP-1101: BLR11 CEMS Dilution	SERIALIZED	DILUTION PLATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CEMS-DIP-1201	CEMS-DIP-1201: Blr12 CEMS Sample Conditioning Plate	SERIALIZED	DILUTION PLATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DIP-701	CEMS-DIP-701:Â BLR7 CEMS Dilution	SERIALIZED	DILUTION PLATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DIP-801	CEMS-DIP-801:Â BLR8 CEMS Dilution	SERIALIZED	DILUTION PLATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-DPM-001	CEMS-DPM-001:Â CEMS Clean Air System Discharge Dew Point Meter	SERIALIZED	DEW POINT METER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-NOX-1003	CEMS-NOX-1003:Â BLR10 CEMS NOX	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-NOX-1103	CEMS-NOX-1103:Â BLR11 CEMS NOX	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-NOX-703	CEMS-NOX-703:Â BLR7 CEMS NOX	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-NOX-803	CEMS-NOX-803:Â BLR8 CEMS NOX	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-OPAC-1005	CEMS-OPAC-1005: BLR10 CEMS Opacity Analyzer	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-OPAC-1105	CEMS-OPAC-1105: BLR11 CEMS Opacity Analyzer	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-PRB-1001	CEMS-PRB-1001:Â BLR10 CEMS Probe	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-PRB-1101	CEMS-PRB-1101:Â BLR11 CEMS Probe	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-PRB-1201	CEMS-PRB-1201: Blr12 CEMS Probe	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-PRB-701	CEMS-PRB-701:Â BLR7 CEMS Probe	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-PRB-801	CEMS-PRB-801:Â BLR8 CEMS Probe	SERIALIZED	PROBE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-SO2-1004	CEMS-SO2-1004:Â BLR10 CEMS SO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-SO2-1104	CEMS-SO2-1104:Â BLR11 CEMS SO2	SERIALIZED	ANALYZER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-UMB-1001	CEMS-UMB-1001:Â BLR10 CEMS	SERIALIZED	UMBILICAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-UMB-1101	CEMS-UMB-1101:Â BLR11 CEMS	SERIALIZED	UMBILICAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-UMB-1201	CEMS-UMB-1201: Blr12 CEMS Umbilical	SERIALIZED	UMBILICAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-UMB-701	CEMS-UMB-701:Â BLR7 CEMS Umbilical	SERIALIZED	UMBILICAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CEMS-UMB-801	CEMS-UMB-801:Â BLR8 CEMS Umbilical	SERIALIZED	UMBILICAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CSH-01N	CHS-CSH-01N:Â Coal Handling System Coal Unloading North Crusher	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CSH-01S	CHS-CSH-01S:Â Coal Handling System Coal Unloading South Crusher	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-01N	CHS-CVR-01N:Â Coal Handling System Conveyor 1 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-01S	CHS-CVR-01S:Â Coal Handling System Conveyor 1 South	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-02N	CHS-CVR-02N:Â Coal Handling System Conveyor 2 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-02S	CHS-CVR-02S:Â Coal Handling System Conveyor 2 SouthÂ	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-03N	CHS-CVR-03N:Â Coal Handling System Conveyor 3 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-03S	CHS-CVR-03S:Â Coal Handling System Conveyor 3 SouthÂ	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS-CVR-04N	CHS-CVR-04N:Â Coal Handling System Conveyor 4 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-04S	CHS-CVR-04S:Â Coal Handling System Conveyor 4 SouthÂ	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-05N	CHS-CVR-05N:Â Coal Handling System Conveyor 5 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-05NA	CHS-CVR-05NA:Â Coal Handling System Conveyor 5 North Cleanout Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-05S	CHS-CVR-05S:Â Coal Handling System Conveyor 5 SouthÂ	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-05SA	CHS-CVR-05SA:Â Coal Handling System Conveyor 5 South Cleanout Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-06N	CHS-CVR-06N:Â Coal Handling System Conveyor 6 North	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-CVR-06NA	CHS-CVR-06N:Â Coal Handling System Conveyor 6 North Cleanout Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-DRC-001,	CHS-DRC-001: Coal Unloading Crusher 1 DRC Coal Title V EP-8	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-DRC-002	CHS-DRC-002: Coal Unloading Crusher 2 DRC Coal Title V EP-9	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-DRC-003	CHS-DRC-003: Coal Silo 1 DRC Coal Title V EP-10	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-DRC-004	CHS-DRC-004: Coal Silo 2 DRC Coal Title V EP-11,	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-DRC-005	CHS-DRC-005: Coal Silo 3 DRC Coal Title V EP-12	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-01N	CHS-FCV-01N:Â Coal Handling System North Unloading Pit Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-01S	CHS-FCV-01S:Â Coal Handling System South Unloading Pit Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-02N	CHS-FCV-02N:Â Coal Handling System North Diverter Gate to Conveyor 3 or Conveyor 5 North Inlet	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-02S	CHS-FCV-02S:Â Coal Handling System South Diverter Gate to Conveyor 3 or Conveyor 5 South Inlet	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-04N	CHS-FCV-04N:Â Coal Handling System Conveyor 4 North Discharge Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-FCV-04S	CHS-FCV-04S:Â Coal Handling System Conveyor 4 South Discharge Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-001A	CHS-LS-001A:Â Coal Handling System Silo 1 High Level Sensor South	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS-LS-001B	CHS-LS-001B:Â Coal Handling System Silo 1 High Level Sensor North	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-002A	CHS-LS-002A:Â Coal Handling System Silo 2 High Level Sensor South	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-002B	CHS-LS-002B:Â Coal Handling System Silo 2 High Level Sensor North	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-003A	CHS-LS-003A:Â Coal Handling System Silo 3 High Level Sensor South West	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-003B	CHS-LS-003B:Â Coal Handling System Silo 3 High Level Sensor South East	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-003C	CHS-LS-003C:Â Coal Handling System Silo 3 High Level Sensor North West	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-003D	CHS-LS-003D:Â Coal Handling System Silo 3 High Level Sensor North East	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-01N	CHS-LS-01N:Â Coal Handling System Conveyor 1 North Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-01S	CHS-LS-01S:Â Coal Handling System Conveyor 1 South Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-02NA	CHS-LS-02NA:Â Coal Handling System Conveyor 2 North Inlet Plugged Chute	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-02NB	CHS-LS-02NB:Â Coal Handling System Conveyor 2 North Discharge Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-02SA	CHS-LS-02SA:Â Coal Handling System Conveyor 2 South Inlet Plugged Chute	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-02SB	CHS-LS-02SB:Â Coal Handling System Conveyor 2 South Discharge Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-03N	CHS-LS-03N:Â Coal Handling System Conveyor 3 North Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-03S	CHS-LS-03S:Â Coal Handling System Conveyor 3 South Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-05N	CHS-LS-05N:Â Coal Handling System Conveyor 5 North Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-05S	CHS-LS-05S:Â Coal Handling System Conveyor 5 South Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-06N	CHS-LS-06N:Â Coal Handling System Conveyor 6 North Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-CSH01N	CHS-LS-CSH01N:Â Coal Handling System Coal Unloading North Crusher Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LS-CSH01S	CHS-LS-CSH01S:Â Coal Handling System Coal Unloading South Crusher Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS-LT-001	CHS-LT-001:Â Coal Handling System Silo 1 Level Transmitter	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LT-002	CHS-LT-002:Â Coal Handling System Silo 2 Level Transmitter	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-LT-003	CHS-LT-003:Â Coal Handling System Silo 3 Level Transmitter	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MAG-01N	CHS-MAG-01N:Â Coal Handling System North Magnetic Drum	SERIALIZED	MAGNET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MAG-01S	CHS-MAG-01S:Â Coal Handling System South Magnetic Drum	SERIALIZED	MAGNET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-01N	CHS-MTR-01N:Â Coal Handling System Conveyor 1 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-01S	CHS-MTR-01S:Â Coal Handling System Conveyor 1 South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-02N	CHS-MTR-02N:Â Coal Handling System Conveyor 2 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-02S	CHS-MTR-02S:Â Coal Handling System Conveyor 2 South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-03N	CHS-MTR-03N:Â Coal Handling System Conveyor 3 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-03S	CHS-MTR-03S:Â Coal Handling System Conveyor 3 South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-04N	CHS-MTR-04N:Â Coal Handling System Conveyor 4 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-04S	CHS-MTR-04S:Â Coal Handling System Conveyor 4 South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-05N	CHS-MTR-05N:Â Coal Handling System Conveyor 5 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-05NA	CHS-MTR-05NA:Â Coal Handling System Conveyor 5 North Cleanout Conveyor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-05S	CHS-MTR-05S:Â Coal Handling System Conveyor 5 South Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-05SA	CHS-MTR-05SA:Â Coal Handling System Conveyor 5 South Cleanout Conveyor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-06N	CHS-MTR-06N:Â Coal Handling System Conveyor 6 North Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-06NA	CHS-MTR-06NA:Â Coal Handling System Conveyor 6 North Cleanout Conveyor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-1103	CHS-MTR-1103:Â BLR11 Coal Handling System Stock Feeder Conveyor Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS-MTR-1103A	CHS-MTR-1103A:Â BLR11 Coal Handling System Stock Feeder Clean Out Conveyor Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-1104	CHS-MTR-1104:Â BLR11 Coal Handling System Loop Seal Conveyor Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-CSH01N	CHS-MTR-CSH01N:Â Coal Handling System Coal Unloading North Crusher	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-CSH01S	CHS-MTR-CSH01S:Â Coal Handling System Coal Unloading South Crusher	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-MAG01N	CHS-MTR-MAG01N:Â Coal Handling System North Magnetic Drum Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-MTR-MAG01S	CHS-MTR-MAG01S:Â Coal Handling System South Magnetic Drum Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SILO-001	CHS-SILO-001:Â Coal Handling System	SERIALIZED	SILO	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SILO-002	CHS-SILO-002:Â Coal Handling System	SERIALIZED	SILO	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SILO-003	CHS-SILO-003:Â Coal Handling System	SERIALIZED	SILO	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-01N	CHS-SS-01N:Â Coal Handling System Conveyor 1 North Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-01S	CHS-SS-01S:Â Coal Handling System Conveyor 1 South Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-02N	CHS-SS-02N:Â Coal Handling System Conveyor 2 North Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-02S	CHS-SS-02S:Â Coal Handling System Conveyor 2 South Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-03N	CHS-SS-03N:Â Coal Handling System Conveyor 3 North Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-03S	CHS-SS-03S:Â Coal Handling System Conveyor 3 South Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-04N	CHS-SS-04N:Â Coal Handling System Conveyor 4 North Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-04S	CHS-SS-04S:Â Coal Handling System Conveyor 4 South Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-CSH01N	CHS-SS-CSH01N:Â Coal Handling System Coal Unloading North Crusher Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-CSH01S	CHS-SS-CSH01S:Â Coal Handling System Coal Unloading South Crusher Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-MAG01N	CHS-SS-MAG01N:Â Coal Handling System North Magnetic Drum Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SS-MAG01S	CHS-SS-MAG01S:Â Coal Handling System South Magnetic Drum Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-SYS-001	CHS-SYS-001:Â Coal Handling System (Unloading)	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS-VFD-01N	CHS-VFD-01N:Â Coal Handling System Conveyor 1 North Motor VFD	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS-VFD-01S	CHS-VFD-01S:Â Coal Handling System Conveyor 1 South Motor VFD	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-BNK-1001	CHS10-BNK-1001:Â BLR10 Coal Handling System Bunker	SERIALIZED	BUNKER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-CVR-1001	CHS10-CVR-1001:Â BLR10 Coal Handling System Conveyor 1 (Silo 3 Discharge)	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-CVR-1002	CHS10-CVR-1002:Â BLR10 Coal Handling System Conveyor 2	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-CVR-1003	CHS10-CVR-1003:Â BLR10 Coal Handling System Conveyor 3	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-CVR-1004	CHS10-CVR-1004:Âf?Â,Â BLR10 Coal Handling System Gravimetric Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-CVR-1005	CHS10-CVR-1005:Â BLR10 Coal Handling System Silo 3 Emergency Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-DRC-1001	CHS10-DRC-1001: BLR10 CHS (Coal Handling System) South Conveyor DRC (Bottom of Conveyor 2) Ops Title V	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-DRC-1002	CHS10-DRC-1002: BLR10 CHS (Coal Handling System) Transfer Conveyor DRC (Bottom of Conveyor 3) Ops	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-DRC-1003	CHS10-DRC-1003: BLR10 CHS (Coal Handling System) Conveyor Discharge DRC (Top of Bunker) Ops Title V EP-	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FCV-1001	CHS10-FCV-1001:Â BLR10 Coal Handling System Silo 3 Discharge Isolation Gate to Conveyor 1	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FCV-1002	CHS10-FCV-1002:Â BLR10 Coal Handling System Silo 3 Discharge Isolation Gate to Emergency Conveyor	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FCV-1003	CHS10-FCV-1003:Â BLR10 Coal Handling System Bunker Discharge Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FDR-1001	CHS10-FDR-1001:Â BLR10 Coal Handling System Coal Feeder 1	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FDR-1002	CHS10-FDR-1002:Â BLR10 Coal Handling System Coal Feeder 2	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FDR-1003	CHS10-FDR-1003:Â BLR10 Coal Handling System Coal Feeder 3	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-FDR-1004	CHS10-FDR-1004:Â BLR10 Coal Handling System Coal Feeder 4	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS10-FDR-1005	CHS10-FDR-1005:Â BLR10 Coal Handling System Coal Feeder 5	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-LS-1001	CHS10-LS-1001:Â BLR10 Coal Handling System Conveyor 1 Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-LS-1002	CHS10-LS-1002:Â BLR10 Coal Handling System Conveyor 2 Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-LS-1003	CHS10-LS-1003:Â BLR10 Coal Handling System Conveyor 3 Discharge Plugged	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-LT-1001	CHS10-LT-1001:Â BLR10 Coal Handling System Bunker Radar Level Transmitter	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-LT-1002	CHS10-LT-1002:Â BLR10 Coal Handling System Non-Seg Distributor Radar Level	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-1001	CHS10-MTR-1001:Â BLR10 Coal Handling System Conveyor 1 (Silo 3)	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-1002	CHS10-MTR-1002:Â BLR10 Coal Handling System Conveyor 2 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-1003	CHS10-MTR-1003:Â BLR10 Coal Handling System Conveyor 3 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-1004	CHS10-MTR-1004:Â BLR10 Coal Handling System Gravimetric Conveyor/Weigh Belt Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-1005	CHS10-MTR-1005:Â BLR10 Coal Handling System Silo 3 Emergency	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-FDR1001	CHS10-FDR-1001:Â BLR10 Coal Handling System Coal Feeder 1 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-FDR1002	CHS10-FDR-1002:Â BLR10 Coal Handling System Coal Feeder 2 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-FDR1003	CHS10-FDR-1003:Â BLR10 Coal Handling System Coal Feeder 3 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-FDR1004	CHS10-FDR-1004:Â BLR10 Coal Handling System Coal Feeder 4 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-MTR-FDR1005	CHS10-FDR-1005:Â BLR10 Coal Handling System Coal Feeder 5 Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-NSD-1001	CHS10-NSD-1001:Â BLR10 Coal Handling System Non-Seg Distributor	SERIALIZED	NON-SEG DISTRIBUTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-SYS-1001	CHS10-SYS-1001:Â Boiler 10 Coal Handling System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-VFD-1001	CHS10-VFD-1001:Â BLR10 Coal Handling System Conveyor 1 (Silo 3 Discharge) Motor VFD	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-VFD-FDR1001	CHS10-VFD-1001:Â BLR10 Coal Handling System Coal Feeder 1 Motor VFD	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS10-VFD-FDR1002	CHS10-VFD-1002:Â BLR10 Coal Handling System Coal Feeder 2 Motor VFD	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-VFD-FDR1003	CHS10-VFD-1003:Â BLR10 Coal Handling System Coal Feeder 3 Motor VFD	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-VFD-FDR1004	CHS10-VFD-1004:Â BLR10 Coal Handling System Coal Feeder 4 Motor VFD	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS10-VFD-FDR1005	CHS10-VFD-1005:Â BLR10 Coal Handling System Coal Feeder 5 Motor VFD	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-BNK-1101	CHS11-BNK-1101:Â BLR11 Coal Handling System Bunker	SERIALIZED	BUNKER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CSH-1101	CHS11-CSH-1101:Â BLR11 Coal Handling System Crusher 1 South	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CSH-1102	CHS11-CSH-1102:Â BLR11 Coal Handling System Crusher 2 North	SERIALIZED	CRUSHER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1100A	CHS11-CVR-1100A:Â BLR11 Coal Handling System Silo 1 Discharge	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1100B	CHS11-CVR-1100B:Â BLR11 Coal Handling System Silo 2 Discharge	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1101	CHS11-CVR-1101:Â BLR11 Coal Handling System Conveyor 1 (Vertical)	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1102	CHS11-CVR-1102:Â BLR11 Coal Handling System Conveyor 2 (Horizontal)	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1103	CHS-CVR-1103:Â BLR11 Coal Handling System Stock Feeder Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1103A	CHS-CVR-1103A:Â BLR11 Coal Handling System Stock Feeder Clean Out	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-CVR-1104	CHS-CVR-1104:Â BLR11 Coal Handling System Loop Seal Conveyor	SERIALIZED	CONVEYOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-DRC-1101	CHS11-DRC-1101: BLR11 CHS (Coal Handling System) Crushers DRC Ops	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1100A	CHS11-FCV-1100A:Â BLR11 Coal Handling System Silo 1 Discharge	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1100B	CHS11-FCV-1100B:Â BLR11 Coal Handling System Silo 2 Discharge	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1101	CHS11-FCV-1101:Â BLR11 Coal Handling System Crusher 1 Inlet Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1102	CHS11-FCV-1102:Â BLR11 Coal Handling System Bunker Discharge Isolation Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1103	CHS11-FCV-1103:Â BLR11 Coal Handling System Loop Seal Conveyor Discharge Adjustment Gate	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS11-FCV-1104N	CHS11-FCV-1104N:Â BLR11 Coal Handling System Loop Seal Conveyor North Discharge Chute Automatic	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-FCV-1104S	CHS11-FCV-1104S:Â BLR11 Coal Handling System Loop Seal Conveyor South Discharge Chute Automatic	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100A	CHS11-LS-1100A: BLR11 Coal Handling System Conveyor 1 (Vertical Conveyor) Inlet Upper East Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100B	CHS11-LS-1100B: BLR11 Coal Handling System Conveyor 1 (Vertical Conveyor) Inlet Upper West Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100C	CHS11-LS-1100C: BLR11 Coal Handling System Conveyor 1 (Vertical Conveyor) Inlet Middle West Plugged Chute	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100D	CHS11-LS-1100D: BLR11 Coal Handling System Conveyor 1 (Vertical Conveyor) Inlet Lower West Plugged Chute	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100NE	CHS11-LS-1100NE:Â BLR11 Coal Handling System Bunker North East High	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100NW	CHS11-LS-1100NW:Â BLR11 Coal Handling System Bunker North West	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100SE	CHS11-LS-1100SE:Â BLR11 Coal Handling System Bunker South East High	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1100SW	CHS11-LS-1100SW:Â BLR11 Coal Handling System Bunker South West	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1101	CHS11-LS-1101:Â BLR11 Coal Handling System Conveyor 1 (Vertical) Discharge Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1102A	CHS11-LS-1102A:Â BLR11 Coal Handling System Crusher 1 South Inlet Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1102B	CHS11-LS-1102B:Â BLR11 Coal Handling System Crusher 2 North Inlet Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1104N	CHS11-LS-1104N:Â BLR11 Coal Handling System Loop Seal Conveyor North Discharge Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-LS-1104S	CHS11-LS-1104S:Â BLR11 Coal Handling System Loop Seal Conveyor South Discharge Plugged Chute Sensor	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS11-LT-1101	CHS11-LT-1101:Â BLR11 Coal Handling System Bunker Radar Level Transmitter	SERIALIZED	LEVEL TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1100A	CHS11-MTR-1100A:Â BLR11 Coal Handling System Silo 1 Discharge	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1100B	CHS11-MTR-1100B:Â BLR11 Coal Handling System Silo 2 Discharge	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1101	CHS11-MTR-1101:Â BLR11 Coal Handling System Conveyor 1 (Vertical)	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1102	CHS11-MTR-1102:Â BLR11 Coal Handling System Conveyor 2	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1105	CHS11-MTR-1105:Â Coal Handling System Coal Unloading Crusher 1 South	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-MTR-1106	CHS11-MTR-1106:Â Coal Handling System Coal Unloading Crusher 2 North	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SAMP-1101	CHS11-SAMP-1101:Â BLR11 Coal Handling System Main Coal Sampler (Off of Loop Seal Inlet)	SERIALIZED	SAMPLER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SAMP-1102	CHS11-SAMP-1102:Â BLR11 Coal Handling System Manual Backup Coal Sampler (Off of Bunker Cone)	SERIALIZED	SAMPLER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SG-1104N	CHS11-SG-1104N:Â BLR11 Coal Handling System Loop Seal Conveyor	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SG-1104S	CHS11-SG-1104S:Â BLR11 Coal Handling System Loop Seal Conveyor South Sight	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SS-1100A	CHS11-SS-1100A:Â BLR11 Coal Handling System Silo 1 Discharge Conveyor Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SS-1100B	CHS11-SS-1100B:Â BLR11 Coal Handling System Silo 2 Discharge Conveyor Speed Sensor	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SS-1101	CHS11-SS-1101:Â BLR11 Coal Handling System Conveyor 1 (Vertical) Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SS-1102	CHS11-SS-1102:Â BLR11 Coal Handling System Conveyor 2 (Horizontal) Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SS-1104	CHS11-SS-1104:Â BLR11 Coal Handling System Loop Seal Conveyor Speed	SERIALIZED	SPEED SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-SYS-1101	CHS11-SYS-1101:Â Boiler 11 Coal Handling System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-V-1100A	CHS11-V-1100A:Â BLR11 Coal Handling System Silo 1 Emergency Discharge Chute Isolation Gate	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHS11-V-1100B	CHS11-V-1100B:Â BLR11 Coal Handling System Silo 2 Emergency Discharge Chute Isolation Gate	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-VFD-1100A	CHS11-VFD-1100A:Â BLR11 Coal Handling System Silo 1 Discharge	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-VFD-1100B	CHS11-VFD-1100B:Â BLR11 Coal Handling System Silo 2 Discharge	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CHS11-VFD-1101	CHS11-VFD-1101:Â BLR11 Coal Handling System Conveyor 1 (Vertical) Motor VFD	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CO2-SYS-001	CO2-SYS-001:Â CO2 System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
COAL-TITLEV-001	COAL-TITLEV-001: Coal Title V	SERIALIZED	TITLE V	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-FCV-1290	CON-FCV-1290: HPS INTELLIGENT DRIP LEG PNEUMATIC CONTROL VALVE NEAR	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-FT-014	CON-FT-014: FLASH TANK 14	SERIALIZED	TANK FLASH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-SYS-001	CON-SYS-001: Condensate System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-111	CON-TRAP-111: LPS-HTR-111 HEATER STEAM TRAP 111 MAINTENANCE SHOP	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-112	CON-TRAP-112: LPS-HTR-112 HEATER STEAM TRAP 112 MAINTENANCE SHOP	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-113	CON-TRAP-113: LPS-HTR-113 HEATER STEAM TRAP 113 MAINTENANCE SHOP	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-114	CON-TRAP-114: LPS MAINTENANCE SHOP MAIN LINE STEAM TRAP 114	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-115	CON-TRAP-115: LPS MAINTENANCE SHOP MAIN LINE STEAM TRAP 115	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CON-TRAP-116	CON-TRAP-116: LPS MAINTENANCE SHOP MAIN LINE STEAM TRAP 116	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CVS-SYS-001	CVS-SYS-001: Central Vacuum System	SERIALIZED	PUMP VACUUM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWR-FCV-2000	CWR-FCV-2000: BLR12 FD FAN COOLING WATER CCW FLOW CONTROL VALVE - ROTOMETER	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWR-FI-2000	CWR-FI-2000: BLR12 FD FAN COOLING WATER CCW SIGHT FLOW INDICATOR	SERIALIZED	FLOW INDICATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWS-PSV-11BAN1	CWS-PSV-11BAN1: ASH SYSTEM BLR11 ASH SCREW/COOLER 1 (NORTH) COOLING WATER PRESSURE SAFETY	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWS-PSV-11BAS1	CWS-PSV-11BAS1: ASH SYSTEM BLR11 ASH SCREW/COOLER 2 (SOUTH) COOLING WATER PRESSURE SAFETY	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWS-SYS-001	CWS-SYS-001:Â Cooling Water System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DG7-STK-701	DG7-STK-701: DG7 Stack Ops Title V	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DG7-SYS-700	DG7-SYS-700: DG7 Ops Title V EP-27	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSH-SYS-001	DSH-SYS-001:Â Desuperheating System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-AC-01A	DSI10-AC-01A:Â BLR10 DSI Train A Aftercooler/Heat Exchanger (HEX)	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-AC-01B	DSI10-AC-01B:Â BLR10 DSI Train B Aftercooler/Heat Exchanger (HEX)	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-BLWR-01A	DSI10-BLWR-01A:Â BLR10 DSI Train A Transport Air Blower	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-BLWR-01B	DSI10-BLWR-01B:Â BLR10 DSI Train B Transport Air Blower	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-BVF-002A	DSI10-BVF-002A:Â BLR10 DSI Train A Gravimetric Feeder Bin Vent Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-BVF-002B	DSI10-BVF-002B:Â BLR10 DSI Train B Gravimetric Feeder Bin Vent Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-DPS-02A	DSI10-DPS-02A:Â BLR10 DSI Train A Gravimetric Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-DPS-02B	DSI10-DPS-02B:Â BLR10 DSI Train B Gravimetric Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-DPS-04A	DSI10-DPS-04A:Â BLR10 DSI Train A Rotary Vane Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-DPS-04B	DSI10-DPS-04B:Â BLR10 DSI Train B Rotary Vane Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-DRC-1001	DSI10-DRC-1001:Â BLR10 DSI Silo DRCÂ Â Â Â Â Ops Title V EP-53	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-02A	DSI10-FCV-02A:Â BLR10 DSI Train A Gravimetric Feeder Hopper Fill Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-02B	DSI10-FCV-02B:Â BLR10 DSI Train B Gravimetric Feeder Hopper Fill Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-03A	DSI10-FCV-03A:Â BLR10 DSI Train A Dehumidifier Bypass Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-03B	DSI10-FCV-03B:Â BLR10 DSI Train B Dehumidifier Bypass Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-04A	DSI10-FCV-04A:Â BLR10 DSI Train A Dehumidifier Isolation Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-04B	DSI10-FCV-04B:Â BLR10 DSI Train B Dehumidifier Isolation Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-05A	DSI10-FCV-05A: BLR10 DSI Train A Blower Isolation Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSI10-FCV-05B	DSI10-FCV-05B: BLR10 DSI Train B Blower Isolation Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-06A	DSI10-FCV-06A: BLR10 DSI Train A Purge Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-06B	DSI10-FCV-06B: BLR10 DSI Train B Purge Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-07A	DSI10-FCV-07A: BLR10 DSI Train A Vent Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FCV-07B	DSI10-FCV-07B: BLR10 DSI Train B Vent Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FDR-01A	DSI10-FDR-01A:Â BLR10 DSI Train A Brabender Gravimetric Feeder Assembly (Agitator, Screw Feeder, Hopper, Weight	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-FDR-01B	DSI10-FDR-01B:Â BLR10 DSI Train B Brabender Gravimetric Feeder Assembly (Agitator, Screw Feeder, Hopper, Weight	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-HMI-01A	DSI10-HMI-01A:Â BLR10 DSI Train A PLC	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-HMI-01B	DSI10-HMI-01B:Â BLR10 DSI Train B PLC	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-HMI-02A	DSI10-HMI-02A:Âf?Â,Â BLR10 DSI Train A Gravimetric Feeder Brabender HMI	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-HMI-02B	DSI10-HMI-02B:Âf?Â,Â BLR10 DSI Train B Gravimetric Feeder Brabender HMI	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-01	DSI10-IL-01:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-02	DSI10-IL-02:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-03	DSI10-IL-03:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-04	DSI10-IL-04:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-05	DSI10-IL-05:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-IL-06	DSI10-IL-06:Â BLR10 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-01	DSI10-LE-01:Â BLR10 DSI Silo High High Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-02	DSI10-LE-02:Â BLR10 DSI Silo High Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-05	DSI10-LE-05:Â BLR10 DSI Silo Low Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-06	DSI10-LE-06:Â BLR10 DSI Train A Gravimetric Feeder Hopper High Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-07	DSI10-LE-07:Â BLR10 DSI Train A Gravimetric Feeder Hopper Low Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-08	DSI10-LE-08:Â BLR10 DSI Train B Gravimetric Feeder Hopper High Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-LE-09	DSI10-LE-09:Â BLR10 DSI Train B Gravimetric Feeder Hopper Low Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSI10-LT-01	DSI10-LT-01:Â BLR10 DSI Silo Level	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-PIPE-01	DSI10-PIPE-01:Â BLR10 DSI Piping	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-PT-02A	DSI10-PT-02A:Â BLR10 DSI Train A Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-PT-02B	DSI10-PT-02B:Â BLR10 DSI Train B Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-RD-01A	DSI10-RD-01A:Â BLR10 DSI Train A Dehumidifier	SERIALIZED	DEHUMIDIFIER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-RD-01B	DSI10-RD-01B:Â BLR10 DSI Train B Dehumidifier	SERIALIZED	DEHUMIDIFIER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-RVF-01A	DSI10-RVF-01A: BLR10 DSI Train A Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-RVF-01B	DSI10-RVF-01B: BLR10 DSI Train B Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-SPLIT-01	DSI10-SPLIT-01:Â BLR10 DSI Splitter	SERIALIZED	SPLITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-SYS-1001	DSI10-SYS-1001:Â Boiler 10 Dry Sorbent Injection System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-01A	DSI10-TT-01A:Â BLR10 DSI Train A Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-01B	DSI10-TT-01B:Â BLR10 DSI Train B Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02A	DSI10-TT-02A:Â BLR10 DSI Splitter Lance Line 1 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02B	DSI10-TT-02B:Â BLR10 DSI Splitter Lance Line 2 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02C	DSI10-TT-02C:Â BLR10 DSI Splitter Lance Line 3 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02D	DSI10-TT-02D:Â BLR10 DSI Splitter Lance Line 4 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02E	DSI10-TT-02E:Â BLR10 DSI Splitter Lance Line 5 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-TT-02F	DSI10-TT-02F:Â BLR10 DSI Splitter Lance Line 6 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-WIT-01A	DSI10-WIT-01A:Â,Â BLR10 DSI Train A Brabender Gravimetric Feeder Weight Scale Load Cell	SERIALIZED	LOAD CELL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI10-WIT-01B	DSI10-WIT-01B:Â,Â BLR10 DSI Train B Brabender Gravimetric Feeder Weight Scale Load Cell	SERIALIZED	LOAD CELL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-AC-01A	DSI11-AC-01A:Âf?Â,Â BLR11 DSI Train A Aftercooler/Heat Exchanger (HEX)	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSI11-AC-01B	DSI11-AC-01B:Â BLR11 DSI Train B Aftercooler/Heat Exchanger (HEX)	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-BLWR-01A	DSI11-BLWR-01A:Â BLR11 DSI Train A Transport Air Blower	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-BLWR-01B	DSI11-BLWR-01B:Â BLR11 DSI Train B Transport Air Blower	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-BVF-002A	DSI11-BVF-002A:Â BLR11 DSI Train A Gravimetric Feeder Bin Vent Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-BVF-002B	DSI11-BVF-002B:Â BLR11 DSI Train B Gravimetric Feeder Bin Vent Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-DPS-02A	DSI11-DPS-02A:Â BLR11 DSI Train A Gravimetric Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-DPS-02B	DSI11-DPS-02B:Â BLR11 DSI Train B Gravimetric Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-DPS-04A	DSI11-DPS-04A:Â BLR11 DSI Train A Rotary Vane Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-DPS-04B	DSI11-DPS-04B:Â BLR11 DSI Train B Rotary Vane Feeder Bin Vent Filter Differential Pressure Switch	SERIALIZED	SWITCH DIFF PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-DRC-1101	DSI11-DRC-1101:Â BLR11 DSI Silo DRCÂ Â Â Â Ops Title V EP-54	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-02A	DSI11-FCV-02A:Â BLR11 DSI Train A Gravimetric Feeder Hopper Fill Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-02B	DSI11-FCV-02B:Â BLR11 DSI Train B Gravimetric Feeder Hopper Fill Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-03A	DSI11-FCV-03A:Â BLR11 DSI Train A Dehumidifier Bypass Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-03B	DSI11-FCV-03B:Â BLR11 DSI Train B Dehumidifier Bypass Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-04A	DSI11-FCV-04A:Â BLR11 DSI Train A Dehumidifier Isolation Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-04B	DSI11-FCV-04B:Â BLR11 DSI Train B Dehumidifier Isolation Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-05A	DSI11-FCV-05A: BLR10 DSI Train A Blower Isolation Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-05B	DSI11-FCV-05B: BLR10 DSI Train B Blower Isolation Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-06A	DSI11-FCV-06A: BLR10 DSI Train A Purge Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSI11-FCV-06B	DSI11-FCV-06B: BLR10 DSI Train B Purge Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-07A	DSI11-FCV-07A: BLR10 DSI Train A Vent Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FCV-07B	DSI11-FCV-07B: BLR10 DSI Train B Vent Valve Assy	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FDR-01A	DSI11-FDR-01A:Â BLR11 DSI Train A Brabender Gravimetric Feeder Assembly (Agitator, Screw Feeder, Hopper, Weight	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-FDR-01B	DSI11-FDR-01B:Â BLR11 DSI Train B Brabender Gravimetric Feeder Assembly (Agitator, Screw Feeder, Hopper, Weight	SERIALIZED	FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-HMI-01A	DSI11-HMI-01A:Â BLR11 DSI Train A PLC	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-HMI-01B	DSI11-HMI-01B:Â BLR11 DSI Train B PLC	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-HMI-02A	DSI11-HMI-02A:Âf?Â,Â BLR11 DSI Train A Gravimetric Feeder Brabender HMI	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-HMI-02B	DSI11-HMI-02B:Âf?Â,Â BLR11 DSI Train B Gravimetric Feeder Brabender HMI	SERIALIZED	HMI	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-01	DSI11-IL-01:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-02	DSI11-IL-02:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-03	DSI11-IL-03:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-04	DSI11-IL-04:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-05	DSI11-IL-05:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-IL-06	DSI11-IL-06:Â BLR11 DSI Injection Lance	SERIALIZED	INJECTION LANCE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-01	DSI11-LE-01:Â BLR11 DSI Silo High High Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-02	DSI11-LE-02:Â BLR11 DSI Silo High Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-05	DSI11-LE-05:Â BLR11 DSI Silo Low Level Element	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-06	DSI11-LE-06:Â BLR11 DSI Train A Gravimetric Feeder Hopper High Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-07	DSI11-LE-07:Â BLR11 DSI Train A Gravimetric Feeder Hopper Low Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-08	DSI11-LE-08:Â BLR11 DSI Train B Gravimetric Feeder Hopper High Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LE-09	DSI11-LE-09:Â BLR11 DSI Train B Gravimetric Feeder Hopper Low Level	SERIALIZED	LEVEL ELEMENT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-LT-01	DSI11-LT-01:Â BLR11 DSI Silo Level	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-PIPE-01	DSI11-PIPE-01:Â BLR11 DSI Piping	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-PT-02A	DSI11-PT-02A:Â BLR11 DSI Train A Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
DSI11-PT-02B	DSI11-PT-02B:Â BLR11 DSI Train B Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-RD-01A	DSI11-RD-01A:Â BLR11 DSI Train A Dehumidifier	SERIALIZED	DEHUMIDIFIER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-RD-01B	DSI11-RD-01B:Â BLR11 DSI Train B Dehumidifier	SERIALIZED	DEHUMIDIFIER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-RVF-01A	DSI11-RVF-01A: BLR11 DSI Train A Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-RVF-01B	DSI11-RVF-01B: BLR11 DSI Train B Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-SPLIT-01	DSI11-SPLIT-01:Â BLR11 DSI Splitter	SERIALIZED	SPLITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-SYS-1101	DSI11-SYS-1101:Â Boiler 11 Dry Sorbent Injection System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-01A	DSI11-TT-01A:Â BLR11 DSI Train A Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-01B	DSI11-TT-01B:Â BLR11 DSI Train B Transport Air Pressure Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02A	DSI11-TT-02A:Â BLR11 DSI Splitter Lance Line 1 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02B	DSI11-TT-02B:Â BLR11 DSI Splitter Lance Line 2 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02C	DSI11-TT-02C:Â BLR11 DSI Splitter Lance Line 3 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02D	DSI11-TT-02D:Â BLR11 DSI Splitter Lance Line 4 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02E	DSI11-TT-02E:Â BLR11 DSI Splitter Lance Line 5 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-TT-02F	DSI11-TT-02F:Â BLR11 DSI Splitter Lance Line 6 Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-WIT-01A	DSI11-WIT-01A:Â,Â BLR11 DSI Train A Brabender Gravimetric Feeder Weight Scale Load Cell	SERIALIZED	LOAD CELL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
DSI11-WIT-01B	DSI11-WIT-01B:Âf?Â,?Âf?Â,Â BLR11 DSI Train B Brabender Gravimetric Feeder Weight Scale Load Cell	SERIALIZED	LOAD CELL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
E/I-TITLEV-001	E/I-TITLEV-001: E/I Title V	SERIALIZED	TITLE V	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ECB1-SYS-101	ECB1-SYS-101: East Campus Boiler 1	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
EHC-SYS-001	EHC-SYS-001:Â Electro Hydraulic Control System (TG HPU System)	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ELE-SYS-001	ELE-SYS-001: Power Plant electrical	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FAN-EXH-01	FAN-EXH-01: MAINTENANCE SHOP EXH	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FAN-EXH-02	FAN-EXH-02: MAINTENANCE SHOP EXH	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
FAN-EXH-03	FAN-EXH-03: MAINTENANCE SHOP FUME EXTRACTOR	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FPS10-SYS-1000	FPS10-SYS-1000: BLR10 Fire Protection System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FW-FCV-701	FW-FCV-701: BLR7 Feedwater Control Valve (drum level control valve)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FW-FCV-801	FW-FCV-801: BLR8 Feedwater Control Valve (drum level control valve)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FW-FSV-801	FW-FSV-801: BLR8 Feedwater Solenoid Operated Isolation Valve	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FW-FT-701	FW-FT-701: BLR7 Feedwater System Flow Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
FW-SYS-001	FW-SYS-001: Feedwater System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GEL-SYS-001	GEL-SYS-001: General Equipment Inspection and Lubrication	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-BLR7-701	GFS-BLR7-701: BLR7 Gas System	SERIALIZED	GAS SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-BLR8-801	GFS-BLR8-801: BLR8 Gas System	SERIALIZED	GAS SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FCV-2000	GFS-FCV-2000: BLR12 MAIN GAS FLOW CONTROL VALVE	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FCV-701	GFS-FCV-701: BLR7 Main Gas Control	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FCV-801	GFS-FCV-801: BLR8 Main Gas Control	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FIL-101	GFS-FIL-101: Gas Generator 1 Gas Supply Filter GG1	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FIL-201	GFS-FIL-201: Gas Generator 2 Gas Supply Filter GG2	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FIL-301	GFS-FIL-301: Gas Generator 3 Gas Supply Filter GG3	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FIL-401	GFS-FIL-401: Gas Generator 4 Gas Supply Filter GG4	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-101	GFS-FSV-101: Gas Generator 1 Gas Supply First Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-102	GFS-FSV-102: Gas Generator 1 Gas Supply Vent Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-103	GFS-FSV-103: Gas Generator 1 Gas Supply Second Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-201	GFS-FSV-201: Gas Generator 2 Gas Supply First Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-202	GFS-FSV-202: Gas Generator 2 Gas Supply Vent Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-203	GFS-FSV-203: Gas Generator 2 Gas Supply Second Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GFS-FSV-301	GFS-FSV-301: Gas Generator 3 Gas Supply First Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-302	GFS-FSV-302: Gas Generator 3 Gas Supply Vent Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-303	GFS-FSV-303: Gas Generator 3 Gas Supply Second Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-401	GFS-FSV-401: Gas Generator 4 Gas Supply First Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-402	GFS-FSV-402: Gas Generator 4 Gas Supply Vent Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-403	GFS-FSV-403: Gas Generator 4 Gas Supply Second Automatic Isolation Valve	SERIALIZED	FLOW SAFETY VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-701	GFS-FSV-701: BLR7 Main Gas First Automatic Isolation valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-702	GFS-FSV-702: BLR7 Main Gas Second Automatic Isolation valve (closest to	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-703	GFS-FSV-703: BLR7 Main Gas Vent Automatic Isolation valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-704	GFS-FSV-704: BLR7 Pilot Gas Automatic Isolation valve (closest to boiler)	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-705	GFS-FSV-705: BLR7 Pilot Gas Automatic Isolation valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-706	GFS-FSV-706: BLR7 Pilot Gas AutomaticVent valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-801	GFS-FSV-801: BLR8 Main Gas First Automatic Isolation valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-802	GFS-FSV-802: BLR8 Main Gas Second Automatic Isolation valve (closest to	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-803	GFS-FSV-803: BLR8 Main Gas Vent Automatic Isolation valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-804	GFS-FSV-804: BLR8 Pilot Gas Automatic Isolation valve (closest to boiler)	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-805	GFS-FSV-805: BLR8 Pilot Gas Automatic Isolation valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FSV-806	GFS-FSV-806: BLR8 Pilot Gas AutomaticVent valve	SERIALIZED	VALVE SAFETY FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FT-101	GFS-FT-101: Gas Generator 1 Gas Supply Flow Transmitter GG1	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FT-201	GFS-FT-201: Gas Generator 2 Gas Supply Flow Transmitter GG2	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FT-301	GFS-FT-301: Gas Generator 3 Gas Supply Flow Transmitter GG3	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GFS-FT-401	GFS-FT-401: Gas Generator 4 Gas Supply Flow Transmitter GG4	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FT-701	GFS-FT-701: BLR7 Gas Flow Transmitter	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-FT-GG001	GFS-FT-GG001: Gas Generator Main Gas Supply Flow Transmitter GG	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-MOV-2000	GFS-MOV-2000: BLR12 MAIN GAS FIRST AUTOMATIC ISOLATION VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-MOV-2001	GFS-MOV-2001: BLR12 MAIN GAS VENT AUTOMATIC ISOLATION VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-MOV-2002	GFS-MOV-2002: BLR12 MAIN GAS SECOND AUTOMATIC ISOLATION VALVE (CLOSEST TO BOILER)	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-101	GFS-PCV-101: Gas Generator 1 Gas Supply Pressure Control Valve GG1	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-201	GFS-PCV-201: Gas Generator 2 Gas Supply Pressure Control Valve GG2	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-301	GFS-PCV-301: Gas Generator 3 Gas Supply Pressure Control Valve GG3	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-401	GFS-PCV-401: Gas Generator 4 Gas Supply Pressure Control Valve GG4	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-701	GFS-PCV-701: BLR7 Pilot Gas Pressure Control Valve	SERIALIZED	VALVE CONTROL PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-801	GFS-PCV-801: BLR8 Pilot Gas Pressure Control Valve	SERIALIZED	VALVE CONTROL PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-GG001	GFS-PCV-GG001: Gas Generator Main Gas Supply First Pressure Control Valve	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PCV-GG002	GFS-PCV-GG002: Gas Generator Main Gas Supply Second Pressure Control	SERIALIZED	PRESSURE CONTROL VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PIT-2000	GFS-PIT-2000: BLR12 GAS SUPPLY PRV REGULATOR INLET PRESSURE	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PIT-2001	GFS-PIT-2001: BLR12 GAS SUPPLY FIRST PRV REGULATOR OUTLET PRESSURE	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PIT-2002	GFS-PIT-2002: BLR12 GAS SUPPLY SECOND PRV REGULATOR OUTLET	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PIT-2003	GFS-PIT-2003: MAIN GAS SYSTEM PRESSURE TRANSMITTER	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PRV-2000	GFS-PRV-2000: BLR12 GAS SUPPLY FIRST DIRECT-OPERATED PRV	SERIALIZED	VALVE PRESSURE REGULATING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PRV-2001	GFS-PRV-2001: BLR12 GAS SUPPLY FIRST PILOT-OPERATED PRV REGULATOR	SERIALIZED	VALVE PRESSURE REGULATING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PRV-2002	GFS-PRV-2002: BLR12 GAS SUPPLY SECOND DIRECT-OPERATED PRV	SERIALIZED	VALVE PRESSURE REGULATING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GFS-PRV-2003	GFS-PRV-2003: BLR12 GAS SUPPLY SECOND PILOT-OPERATED PRV	SERIALIZED	VALVE PRESSURE REGULATING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PRV-2004	GFS-PRV-2004: BLR12 PILOT GAS PRESSURE REGULATING VALVE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-101	GFS-PS-101: Gas Generator 1 Gas Supply Low Pressure Switch GG1	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-102	GFS-PS-102: Gas Generator 1 Gas Supply High Pressure Switch GG1	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-201	GFS-PS-201: Gas Generator 2 Gas Supply Low Pressure Switch GG2	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-202	GFS-PS-202: Gas Generator 2 Gas Supply High Pressure Switch GG2	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-301	GFS-PS-301: Gas Generator 3 Gas Supply Low Pressure Switch GG3	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-302	GFS-PS-302: Gas Generator 3 Gas Supply High Pressure Switch GG3	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-401	GFS-PS-401: Gas Generator 4 Gas Supply Low Pressure Switch GG4	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-402	GFS-PS-402: Gas Generator 4 Gas Supply High Pressure Switch GG4	SERIALIZED	PRESSURE SWITCH	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-701	GFS-PS-701: BLR7 Main Gas Pressure Switch High High	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-702	GFS-PS-702: BLR7 Main Gas Pressure Switch Low Low	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-801	GFS-PS-801: BLR8 Main Gas Pressure Switch High High	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PS-802	GFS-PS-802: GFS-PS-802: BLR8 Main Gas Pressure Switch Low Low	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PSH-2000	GFS-PSH-2000: BLR12 MAIN GAS HI PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-PSL-2000	GFS-PSL-2000: BLR12 MAIN GAS LO PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-SOV-2000	GFS-SOV-2000: BLR12 PILOT GAS FIRST AUTOMATIC ISOLATION VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-SOV-2001	GFS-SOV-2001: BLR12 PILOT GAS VENT AUTOMATIC ISOLATION VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-SOV-2002	GFS-SOV-2002: BLR12 PILOT GAS SECOND AUTOMATIC ISOLATION VALVE (CLOSEST TO BOILER)	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GFS-SYS-001	GFS-SYS-001: Gas Fuel System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-AIR-101	GG1-AIR-101: Gas Generator 1 Air Inlet Assembly and Filters GG1	SERIALIZED	AIR SUPPLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GG1-BAT-101	GG1-BAT-101: Gas Generator 1 Batteries GG1	SERIALIZED	BATTERIES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-CAT-101	GG1-CAT-101: GAS GENERATOR 1 CATALYST OPS TITLE V	SERIALIZED	CATALYST	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-CP-101	GG1-CP-101: Gas Generator 1 CAT Control Panel GG1	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-CP-102	GG1-CP-102: Gas Generator 1 Woodward EasyGen Control Panel	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-DMP-001	GG1-DMP-001: Gas Generator 1 Supply Air Fan Fresh Air Damper GG1	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-DMP-002	GG1-DMP-002: Gas Generator 1 Supply Air Fan Recirculation Air Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-ENG-101	GG1-ENG-101: Gas Generator 1 Engine GG1	SERIALIZED	ENGINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-FAN-001	GG1-FAN-001: Gas Generator 1 Supply Air Fan GG1	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-FAN-002	GG1-FAN-002: Gas Generator 1 Exhaust Fan GG1	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-GEN-101	GG1-GEN-101: Gas Generator 1 Generator GG1	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-GFS-101	GG1-GFS-101: Gas Generator 1 Gas Supply System GG1	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-GLY-101	GG1-GLY-101: Gas Generator 1 Glycol System GG1	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-MTR-001	GG1-MTR-001: Gas Generator 1 Supply Air Fan Motor GG1	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-MTR-002	GG1-MTR-002: Gas Generator 1 Exhaust Fan Motor GG1	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-OIL-101	GG1-OIL-101: Gas Generator 1 Oil System GG1	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-PMP-101	GG1-PMP-101: Gas Generator 1 Oil Pre Lube Pump GG1	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-PT-001	GG1-PT-001: Gas Generator 1 Exhaust Pressure Transmitter GG1	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-PT-002	GG1-PT-002: Gas Generator 1 Catalyst Differential Pressure Transmitter	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-RAD-101	GG1-RAD-101: Gas Generator 1 Radiator GG1	SERIALIZED	RADIATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-STK-101	GG1-STK-101: Gas Generator 1 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-SYS-101	GG1-SYS-101: Gas Generator 1	SERIALIZED	GAS GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-TT-001	GG1-TT-001: Gas Generator 1 Exhaust Temperature Transmitter GG1	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GG1-VFD-001	GG1-VFD-001: Gas Generator 1 Supply Air Fan VFD GG1	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG1-VFD-002	GG1-VFD-002: Gas Generator 1 Exhaust Fan VFD GG1	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-AIR-201	GG2-AIR-201: Gas Generator 2 Air Inlet Assembly and Filters GG2	SERIALIZED	AIR SUPPLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-BAT-201	GG2-BAT-201: Gas Generator 2 Batteries GG2	SERIALIZED	BATTERIES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-CAT-201	GG2-CAT-201: GAS GENERATOR 2 CATALYST OPS TITLE V	SERIALIZED	CATALYST	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-CP-201	GG2-CP-201: Gas Generator 2 CAT Control Panel GG2	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-CP-202	GG2-CP-202: Gas Generator 2 Woodward EasyGen Control Panel	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-DMP-001	GG2-DMP-001: Gas Generator 2 Supply Air Fan Fresh Air Damper GG2	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-DMP-002	GG2-DMP-002: Gas Generator 2 Supply Air Fan Recirculation Air Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-ENG-201	GG2-ENG-201: Gas Generator 2 Engine GG2	SERIALIZED	ENGINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-FAN-001	GG2-FAN-001: Gas Generator 2 Supply Air Fan GG2	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-FAN-002	GG2-FAN-002: Gas Generator 2 Exhaust Fan GG2	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-GEN-201	GG2-GEN-201: Gas Generator 2 Generator GG2	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-GFS-201	GG2-GFS-201: Gas Generator 2 Gas Supply System GG2	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-GLY-201	GG2-GLY-201: Gas Generator 2 Glycol System GG2	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-MTR-001	GG2-MTR-001: Gas Generator 2 Supply Air Fan Motor GG2	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-MTR-002	GG2-MTR-002: Gas Generator 2 Exhaust Fan Motor GG2	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-OIL-201	GG2-OIL-201: Gas Generator 2 Oil System GG2	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-PMP-201	GG2-PMP-201: Gas Generator 2 Oil Pre Lube Pump GG2	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-PT-001	GG2-PT-001: Gas Generator 2 Exhaust Pressure Transmitter GG2	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-PT-002	GG2-PT-002: Gas Generator 2 Catalyst Differential Pressure Transmitter	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GG2-RAD-201	GG2-RAD-201: Gas Generator 2 Radiator GG2	SERIALIZED	RADIATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-STK-201	GG2-STK-201: Gas Generator 2 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-SYS-201	GG2-SYS-201: Gas Generator 2	SERIALIZED	GAS GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-TT-001	GG2-TT-001: Gas Generator 2 Exhaust Temperature Transmitter GG2	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-VFD-001	GG2-VFD-001: Gas Generator 2 Supply Air Fan VFD GG2	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG2-VFD-002	GG2-VFD-002: Gas Generator 2 Exhaust Fan VFD GG2	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-AIR-301	GG3-AIR-301: Gas Generator 3 Air Inlet Assembly and Filters GG3	SERIALIZED	AIR SUPPLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-BAT-301	GG3-BAT-301: Gas Generator 3 Batteries GG3	SERIALIZED	BATTERIES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-CAT-301	GG3-CAT-301: GAS GENERATOR 3 CATALYST OPS TITLE V	SERIALIZED	CATALYST	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-CP-301	GG3-CP-301: Gas Generator 3 CAT Control Panel GG3	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-CP-302	GG3-CP-302: Gas Generator 3 Woodward EasyGen Control Panel	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-DMP-001	GG3-DMP-001: Gas Generator 3 Supply Air Fan Fresh Air Damper GG3	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-DMP-002	GG3-DMP-002: Gas Generator 3 Supply Air Fan Recirculation Air Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-ENG-301	GG3-ENG-301: Gas Generator 3 Engine GG3	SERIALIZED	ENGINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-FAN-001	GG3-FAN-001: Gas Generator 3 Supply Air Fan GG3	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-FAN-002	GG3-FAN-002: Gas Generator 3 Exhaust Fan GG3	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-GEN-301	GG3-GEN-301: Gas Generator 3 Generator GG3	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-GFS-301	GG3-GFS-301: Gas Generator 3 Gas Supply System GG3	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-GLY-301	GG3-GLY-301: Gas Generator 3 Glycol System GG3	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-MTR-001	GG3-MTR-001: Gas Generator 3 Supply Air Fan Motor GG3	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-MTR-002	GG3-MTR-002: Gas Generator 3 Exhaust Fan Motor GG3	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-OIL-301	GG3-OIL-301: Gas Generator 3 Oil System GG3	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GG3-PMP-301	GG3-PMP-301: Gas Generator 3 Oil Pre Lube Pump GG3	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-PT-001	GG3-PT-001: Gas Generator 3 Exhaust Pressure Transmitter GG3	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-PT-002	GG3-PT-002: Gas Generator 3 Catalyst Differential Pressure Transmitter	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-RAD-301	GG3-RAD-301: Gas Generator 3 Radiator GG3	SERIALIZED	RADIATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-STK-301	GG3-STK-301: Gas Generator 3 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-SYS-301	GG3-SYS-301: Gas Generator 3	SERIALIZED	GAS GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-TT-001	GG3-TT-001: Gas Generator 3 Exhaust Temperature Transmitter GG3	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-VFD-001	GG3-VFD-001: Gas Generator 3 Supply Air Fan VFD GG3	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG3-VFD-002	GG3-VFD-002: Gas Generator 3 Exhaust Fan VFD GG3	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-AIR-401	GG4-AIR-401: Gas Generator 4 Air Inlet Assembly and Filters GG4	SERIALIZED	AIR SUPPLY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-BAT-401	GG4-BAT-401: Gas Generator 4 Batteries GG4	SERIALIZED	BATTERIES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-CAT-401	GG4-CAT-401: GAS GENERATOR 4 CATALYST OPS TITLE V	SERIALIZED	CATALYST	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-CP-401	GG4-CP-401: Gas Generator 4 CAT Control Panel GG4	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-CP-402	GG4-CP-402: Gas Generator 4 Woodward EasyGen Control Panel	SERIALIZED	CONTROL PANEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-DMP-001	GG4-DMP-001: Gas Generator 4 Supply Air Fan Fresh Air Damper GG4	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-DMP-002	GG4-DMP-002: Gas Generator 4 Supply Air Fan Recirculation Air Damper	SERIALIZED	DAMPER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-ENG-401	GG4-ENG-401: Gas Generator 4 Engine GG4	SERIALIZED	ENGINE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-FAN-001	GG4-FAN-001: Gas Generator 4 Supply Air Fan GG4	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-FAN-002	GG4-FAN-002: Gas Generator 4 Exhaust Fan GG4	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-GEN-401	GG4-GEN-401: Gas Generator 4 Generator GG4	SERIALIZED	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-GFS-401	GG4-GFS-401: Gas Generator 4 Gas Supply System GG4	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-GLY-401	GG4-GLY-401: Gas Generator 4 Glycol System GG4	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
GG4-MTR-001	GG4-MTR-001: Gas Generator 4 Supply Air Fan Motor GG4	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-MTR-002	GG4-MTR-002: Gas Generator 4 Exhaust Fan Motor GG4	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-OIL-401	GG4-OIL-401: Gas Generator 4 Oil System GG4	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-PMP-401	GG4-PMP-401: Gas Generator 4 Oil Pre Lube Pump GG4	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-PT-001	GG4-PT-001: Gas Generator 4 Exhaust Pressure Transmitter GG4	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-PT-002	GG4-PT-002: Gas Generator 4 Catalyst Differential Pressure Transmitter	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-RAD-401	GG4-RAD-401: Gas Generator 4 Radiator GG4	SERIALIZED	RADIATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-STK-401	GG4-STK-401: Gas Generator 4 Stack	SERIALIZED	STACK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-SYS-401	GG4-SYS-401: Gas Generator 4	SERIALIZED	GAS GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-TT-001	GG4-TT-001: Gas Generator 4 Exhaust Temperature Transmitter GG4	SERIALIZED	TEMPERATURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-VFD-001	GG4-VFD-001: Gas Generator 4 Supply Air Fan VFD GG4	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GG4-VFD-002	GG4-VFD-002: Gas Generator 4 Exhaust Fan VFD GG4	SERIALIZED	VFD	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GLY-PMP-001	GLY-PMP-001: Gas Generator Glycol Fill System Air Operated Pump GG	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GLY-SYS-001	GLY-SYS-001: Gas Generator Glycol Fill System GG	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GOS-PMP-001	GOS-PMP-001: Gas Generator Oil Fill System Air Operated Pump GG	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
GOS-SYS-001	GOS-SYS-001: Gas Generator Oil Fill System GG	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HB-SYS-001	HB-SYS-001: Hospital Boiler	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HOIST-SYS-001	HOIST-SYS-001, MAIN POWER PLANT HOISTS AND CRANES	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FCV-701	HPS-FCV-701: BLR7 Lower Header Heater Steam Flow Control Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FCV-801	HPS-FCV-801: BLR8 Lower Header Heater Steam Flow Control Valve	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FT-001	HPS-FT-001: BLR7 and BLR8 Combined Lower Header Heater Flow Transmitter	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FT-701	HPS-FT-701: BLR7 Steam Flow Transmitter High Range	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
HPS-FT-702	HPS-FT-702: BLR7 Steam Flow Transmitter Low Range	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FT-801	HPS-FT-801: BLR8 Steam Flow Transmitter High Range	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-FT-802	HPS-FT-802: BLR8 Steam Flow Transmitter Low Range	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-LS-2000	HPS-LS-2000: HPS INTELLIGENT DRIP LEG HI LEVEL SWITCH NEAR BLR12	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-LS-2001	HPS-LS-2001: HPS INTELLIGENT DRIP LEG LO LEVEL SWITCH NEAR BLR12	SERIALIZED	SWITCH LEVEL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-PSV-701	HPS-PSV-701: BLR7 Superheater Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-PSV-801	HPS-PSV-801: BLR8 Superheater Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-PT-801	HPS-PT-801: BLR8 Steam Discharge Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-SYS-001	HPS-SYS-001: High Pressure Steam	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-TT-701	HPS-TT-701: BLR7 Superheater Steam Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-TT-801	HPS-TT-801: BLR8 Superheater Steam Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-V-701	HPS-V-701: BLR7 HEADER NON-RETURN	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-V-702	HPS-V-702: BLR7 First Header Stop Valve	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-V-703	HPS-V-703: BLR7 Second Header Stop	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-V-801	HPS-V-801: BLR8 Non-Return Valve	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HPS-V-802	HPS-V-802: BLR8 First Header Stop Valve	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ID10-PT-1010	ID10-PT-1010:Â BLR10 ID Fan Inlet Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ID10-PT-1011	ID10-PT-1011:Â BLR10 ID Fan Discharge Pressure Transmitter	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ID10-TT-1010	ID10-TT-1010:Â BLR10 ID Fan Inlet Temperature Transmitter	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ID10-VIT-1001	ID10-VIT-1001:Â BLR10 ID Fan Fan Side Temperature and Vibration Transmitter	SERIALIZED	TRANSMITTER TEMP & VIB	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
ID10-VIT-1002	ID10-VIT-1002:Â BLR10 ID Fan Motor Side Temperature and Vibration	SERIALIZED	TRANSMITTER TEMP & VIB	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-BLWR-001	LIME-BLWR-001: Lime System Blower 1	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-BLWR-002	LIME-BLWR-002: Lime System Blower 2	SERIALIZED	BLOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-DRC-001,	LIME-DRC-001: Lime Silo DRC Ops Title V EP-13	SERIALIZED	DUST RECOVERY COLLECTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-FCV-001	LIME-FCV-001: Lime System Silo	SERIALIZED	VALVE CONTROL FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
LIME-FIL-001	LIME-FIL-001: Lime System Blower 1 Inlet Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-FIL-002	LIME-FIL-002: Lime System Blower 2 Inlet Filter	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-LS-001	LIME-LS-001: Lime System Silo Level	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-LS-002	LIME-LS-002: Lime System Silo Level	SERIALIZED	LEVEL SENSOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-MTR-001	LIME-MTR-001: Lime System Upper Rotary Vane Feeder Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-MTR-002	LIME-MTR-002: Lime System Lower Rotary Vane Feeder Motor	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-MTR-003	LIME-MTR-003: Lime System Blower 1	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-MTR-004	LIME-MTR-004: Lime System Blower 2	SERIALIZED	MOTOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-PIPE-001	LIME-PIPE-001: Lime System Pipe	SERIALIZED	PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-PSV-001	LIME-PSV-001: Lime System Blower 1 Discharge Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-PSV-002	LIME-PSV-002: Lime System Blower 2 Discharge Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-PSV-003	LIME-PSV-003: Lime System Common Blower Discharge Pressure Safety Valve	SERIALIZED	VALVE SAFETY PRESSURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-PT-001	LIME-PT-001: Lime System Conveying Air Pressure Transmitter	SERIALIZED	PRESSURE TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-RVF-001	LIME-RVF-001: Lime System Upper Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-RVF-002	LIME-RVF-002: Lime System Lower Rotary Vane Feeder	SERIALIZED	ROTARY VANE FEEDER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-SIL-001	LIME-SIL-001: Lime System Blower 1 Discharge Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-SIL-002	LIME-SIL-002: Lime System Blower 2 Discharge Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-SIL-003	LIME-SIL-003: Lime System Common Blower Discharge Silencer	SERIALIZED	SILENCER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-SILO-001	LIME-SILO-001: Lime System Silo	SERIALIZED	SILO	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LIME-SYS-001	LIME-SYS-001: Lime System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-FT-1001	LPS-FT-1001: BLR7 & BLR8 Make Up Air Unit Steam Flow Transmitter	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-FT-1002	LPS-FT-1002: BLR10 Make Up Air Unit Steam Flow Transmitter	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-FT-2002	LPS-FT-1002: BLR7 BLR8 BLR12 COMBINED STEAM TO MAU FLOW	SERIALIZED	FLOW TRANSMITTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-HTR-111	LPS-HTR-111: MAINTENANCE SHOP UNIT HEATER AND THERMOSTAT 111	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
LPS-HTR-112	LPS-HTR-112: MAINTENANCE SHOP UNIT HEATER AND THERMOSTAT 112	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-HTR-113	LPS-HTR-113: MAINTENANCE SHOP UNIT HEATER AND THERMOSTAT 113	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-PSV-005	LPS-PSV-005: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 1	SERIALIZED	VALVE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-PSV-825	LPS-PSV-825: CONTINUOUS BLOWDOWN HEAT RECOVERY TANK 2	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-PSV-827	LPS-PSV-827: FLASH TANK 14 CON-FT-014 SAFETY VALVE	SERIALIZED	VALVE PRESSURE SAFETY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
LPS-SYS-001	LPS-SYS-001: Low Pressure Steam	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
MPS-SYS-001	MPS-SYS-001: Medium Pressure Steam System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
MUS-SYS-001	MUS-SYS-001: Makeup Water System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
NPW-SYS-001	NPW-SYS-001: Non Potable Water	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
OPS-TITLEV-001	OPS-TITLEV-001: Ops Title V	SERIALIZED	TITLE V	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-SYS-AUDITS	PP-SYS-AUDITS: Power Plant PM Audit Asset (Audits for LOTO, HWPs, First Aid	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-SYS-EL	PP-SYS-EL: Power Plant Emergency	SERIALIZED	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-SYS-EWS	PP-SYS-EWS: Power Plant Eye Wash	SYSTEM	EMERGENCY SHOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-SYS-FE	PP-SYS-FE: Power Plant Fire	SERIALIZED	FIRE EXTINGUISHERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-SYS-SPCCP	PP-SYS-SPCCP: Power Plant SPCCP	SERIALIZED	PROGRAM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PP-XFRRMS-FAN	Air handling unit to cool off Power Plant transformer rooms	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PW-SYS-001	PW-SYS-001: Potable Water System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PWS-HTR-003	PWS-HTR-003: MAINTENANCE SHOP SINK WATER TEMPERING SYSTEM	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
PWS-TCV-463	PWS-TCV-463: BOILER BLOWOFF TANK BOS-FT-102 POTABLE WATER QUENCHING WATER CONTROL VALVE	SERIALIZED	VALVE CONTROL TEMPERATURE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
RWS-SYS-001	RWS-SYS-001: River Water System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SEW-PUMP-015	SEW-PUMP-015: MAINTENANCE SHOP DRAIN PUMP	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SEW-PUMP-016	SEW-PUMP-016: MAINTENANCE SHOP SUMP PUMP	SERIALIZED	PUMP	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SEW-SYS-001	SEW-SYS-001: Sewer System	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SOL-SYS-001	SOL-SYS-001: Stack Obstruction Lighting boiler 10 and 11 stacks	SERIALIZED	LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB1-SYS-100	SUB1-SYS-100: Power Plant SUB1	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB2-SYS-200	SUB2-SYS-200: Power Plant SUB2	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB3-SYS-300	SUB3-SYS-300: Power Plant SUB3	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB4-SYS-400	SUB4-SYS-400: Power Plant SUB4	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
SUB5-SYS-500	SUB5-SYS-500: Power Plant SUB5	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB6-SYS-600	SUB6-SYS-600: Power Plant SUB6	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
SUB7-SYS-700	SUB7-SYS-700: Power Plant SUB7	SERIALIZED	SUBSTATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
TOS-SYS-001	TOS-SYS-001: Turbine Oil System (TG Oil System)	SERIALIZED	SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
WCB1-SYS-101	WCB1-SYS-101: West Campus	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
WCB2-SYS-201	WCB2-SYS-201: West Campus Boiler 2	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
WCB3-SYS-301	WCB3-SYS-301: West Campus Boiler 3	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
HB-SYS-001	HB-SYS-001: Hospital Boiler	SERIALIZED	BOILER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T192	GE VaporTran Transformer T192 Power Plant feeds Sub 2 (TR2)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T194	GE VaporTran Transformer T194 Power Plant feeds Sub 4 (TR4)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T196	GE VaporTran Transformer T196 Power Plant feeds Sub 6 (TR6)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
0052-VT-T197	GE VaporTran Transformer T197 Power Plant feeds 5 KV MCC (TR7)	ED-SYSTEM	TRANSFORMERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Power Plant Main
CWMTR 44	CWMTR 44, Building #0022, New Engineering, In New Eng Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Seamans Center
CWMTR 44	CWMTR 44, Building #0022, New Engineering, In New Eng Mechinal Room	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Seamans Center
CWMTR 37	CWMTR 37, Building #0182, Southwing, Under MRF Mechinal Room in	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	South Wing
CWMTR 37	CWMTR 37, Building #0182, Southwing, Under MRF Mechinal Room in	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	South Wing
OLD BIO PRV HPS	Old Bio PRV HPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT INSLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
OLDBB STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BB
NEW BIO HPS PRV	New Bio HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEW BIO LPS PRV	New Bio LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
NEWBB STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
NEWBB STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BBE
BCSB STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BCSB STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
BECKER PRV	Becker PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL BCSB
CALH STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALH STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CALVIN PRV	Calvin PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CALH
CHEM STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT PRV	PRVs	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHEM STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
CHEM STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL CHEM
EPB STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT PRV	PRVs	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT SUMPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
EPB STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL EPB
GILH STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT SUMPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILH STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
GILMORE PRV	Gilmore PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL GILH
MACLEAN PRV	MacLean PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT SUMPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
MLH STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL MLH
NH STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
NH STUBT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NH STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
NORTH HALL PRV	North Hall PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL NH
OLD CAP PRV	Old Cap PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SCHAFFER PRV	Schaffer PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
SH STUBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	STUB TUNNEL SH
ARTT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
ARTT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
HANCHER PRV	Hancher PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
OLD ART MUES PRV	Old Art Museum PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
OLD ART PRV	Old Art PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
THEATER PRV	Theater PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL ART
BOWEN PRV	Bowen PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CCOMT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT PRV	PRVs	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT STMVALVES	CCOMT StmValves	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
CCOMT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
EMRB PRV	EMRB PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
MED ED PRV	Med Ed PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CCOM
AMB SUR PRV 1	Ambulatory Surgery PRV 1	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
AMB SUR PRV 2	Ambulatory Surgery PRV 2	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CENTEXCEL PRV	Center of Excellence PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CL7 FLR MPS PRV	Colloton 7th Floor MPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CL7 FLR PRV	Colloton 7th Floor PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COL INT BOOS PRV	Collton Internal Booster PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
COLLOTONT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CSS TO MPS 1 PRV	CSS to MPS 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CSS TO MPS 2 PRV	CSS to MPS 2 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
CSS TO MPS 3 PRV	CSS to MPS 3 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
KINNICK PRV	Kinnick PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
POM HPS TO MPS1	Pomerantz 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
POM HPS TO MPS2	Pomerantz 2 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
POM MP TO LPS PRV	Pomerantz 3 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
SCOL INT BOOS PRV	Collton South Internal Booster PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL COLLOTON
ART WEST PRV	Art West PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHB PRV	CPHB PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CPHBT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CPHBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
VISUAL ART PRV	Visual Art PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL CPHB
CINTDRIP HPS PRV	CRWC Intelligent Drip Leg HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CINTDRIP LPS PRV	CRWC Intelligent Drip Leg LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWC PRV	CRWC PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
CRWCT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
ERF PRV	Engineering Research PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
HYDRO ANN PRV	Hydro Annex PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
OLD LAN PRV	Old Laundry PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
SCHMUSIC PRV	School of Music PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CRWC
BURGE N HPS PRV	Burge N HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
BURGE N LPS PRV	Burge N LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
BURGE S PRV	Burge S PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CAREERS PRV	Pomerantz Careers PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CHEM HPS 1 PRV	Chem HPS 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CHEM HPS 2 PRV	Chem HPS 2 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CHEM LPS PRV	Chem LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIER HPS PRV	Currier HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIER LPS PRV	Currier LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CURRIERT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
CURRIERT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
DAUM PRV	Daum PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
DEY PRV	Dey PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
HALSEY PRV EAST	Halsey East PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
HALSEY PRV SOUTH	Halsey South PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
HONORS PRV	Blank Honors PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
JESSUP PRV	Jessup PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
NCWP PRV	NCWP PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
PAPPA BUS PRV	Pappa Bus PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
STANLEY PRV	Stanley PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
TROWBRIDGE PRV	Trowbridge PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL CURRIER
DAMT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
DAMT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
STAN HYDRO PRV	Stanley Hydraulics PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL DAM
EMRBT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
EMRBT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL EMRB
AOB PRV	AOB PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
FHT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FHT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
FIELDHOUSE PRV	Fieldhouse PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL FH
CAP MGMT PRV	Capital Management PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR INSLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
HAWKINSR VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
SKYWALK PRV	Skywalk PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
TRANS CENT PRV	Transportation Center PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
WCWP PRV	West Chilled Water Plant PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL HAWKINSR
CAT RES PRV	Catlett Hall PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IATL HPS PRV	IATL HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IATL LPS PRV	IATL LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMU CENTER PRV	IMU Center PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMU NORTH PRV	IMU North PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMU SOUTH PRV	IMU South PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT INSLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
IMUT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
LIBRARY PRV	Library PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
WATER PLANT PRV	Water Plant PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL IMU
CBRB HPS PRV	CBRB HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
CBRB LPS PRV	CBRB LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CHM4 4INCH BOOST	Chamber 4 Booster HPS to LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
CHM4 6INCH BOOST	Chamber 4 Booster HPS to MPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MEB PRV	MEB PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERF HPS LPS PRV	MERF HPS LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERF LPS PRV	MERF LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFINTELLEGRV	MERF Intelligent Drip Leg PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
MERFT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
NURSING PRV	Nursing PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
PBDB HPS PRV	PBDB HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
PBDB LPS PRV	PBDB LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
WESTLAWN PRV	Westlawn PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL MERF
OAKDALET	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET INSBLK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET PRV	PRVs	MD-SERIALIZED	PRVS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
OAKDALET TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OAKDALET VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	TUNNEL OAKDALE
COMM PRV	Comm Center PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
LIND BOOSTER PRV	Lindquist Booster PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
LIND N PRV	Lindquist North PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
LIND S PRV	Lindquist South PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD CAPT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
OLD ENG PRV	Old Engineering PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
SEAMAN PRV	Seamans Center PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
UCC BOOSTER PRV	UCC Booster PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
UCC PRV	UCC PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL OLD CAP
CAR 7TH PRV	Carver 7th Floor PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
CARVER EAST PRV	UIHC Carver East PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
CARVER WEST 2 PRV	UIHC Carver West 2 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
CARVER WEST PRV	UIHC Carver West PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
N PHARM PRV HPS	New Pharmacy PRV HPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
N PHARM PRV LPS	New Pharmacy PRV LPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
O PHARM PRV HPS	Old Pharmacy PRV HPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
O PHARM PRV LPS	Old Pharmacy PRV LPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARM HPS TO LPS	Pharm Tunnel Booster PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
PHARMT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY
SPEECH HEAR PRV	Wendall Johnson PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL PHARMACY

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
BIO 1 PRV	Bio 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
BIO 2 PRV	Bio 2 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
BIO EAST PRV HPS	Bio East HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
BIO EAST PRV LPS	Bio East LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
MACBRIDE PRV	Macbride PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
OLD BIO PRV LPS	Old Bio PRV LPS	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
PHILLIPS PRV	Phillips PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEA MRG PRV	Seashore Old Morgue PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORE E PRV	Seashore E PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORE W PRV	Seashore W PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SEASHORET VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SPENCE PRV	Spence PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
STATE HIST PRV	State Hist PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
STUIT PRV	Stuit PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
VAN ALL E PRV	Van Allen East PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
VAN ALL W PRV	Van Allen West PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	TUNNEL SEASHORE
SFCHT	Tunnel, Structure, Steam and Condensate Piping	MD-SYSTEM	TUNNEL STRUCTURE AND PIPE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT ANCHORGUIDES	Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT CONDPUMP	Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT EXPANJOINT	Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT INSBK	Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT INSULATION	Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT STMVALVES	Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT SUMPPMP	Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT TRAPSTAT	Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
SFCHT VENT	Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
STFCH PRV 1	Stead Family Children's Hospital 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
STFCH PRV 2	Stead Family Children's Hospital 1 PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	TUNNEL SFCH
CWMTR 81	CWMTR 81, Building #0072, University Capitol Centre, Old Capital Centre	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	University Capitol Centre

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
CWMTR 81	CWMTR 81, Building #0072, University Capitol Centre, Old Capital Centre	SERIALIZED	CW METERS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	University Capitol Centre
ZO ANIMAL LIFT STATION	Zone Oakd Sanitary Animal Lift Station	MD-SERIALIZED	LIFT STATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO CHILLED WATER PIPING	Zone Oakd CHW Piping and Associated Fittings	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO CHILLED WATER SYSTEM	Zone Oakd Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO CHILLED WATER VALVES	Zone Oakd CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO DOMESTIC WATER PIPING	Zone Oakd Water Piping and Associated Fittings	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO DOMESTIC WATER SYSTEM	Zone Oakd Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO DOMESTIC WATER VALVES	Zone Oakd Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO FIRE HYDRANTS	Zone Oakd Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO HOT WATER PIPE	Zone Oakd Hot Water Piping and Associated Fittings	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO HOT WATER SYSTEM	Zone Oakd Hot Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO HOT WATER VALVES	Zone Hot Water Oakd Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO HOT WATER VAULT	Zone Oakd Hot Water Vaults and Tunnels	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO SANITARY MANHOLES	Zone Oakd Sanitary Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO SANITARY PIPING	Zone Oakd Sanitary Piping and Associated Fittings	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO SANITARY SYSTEM	Zone Oakd Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO STORM INTAKES/OUTFALLS	Zone Oakd Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO STORM PIPING	Zone Oakd Storm Piping and Associated Fittings	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO STORM SYSTEM	Zone Oakd Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO STORM VALVES	Zone Oakd Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
ZO STORM WATER QLTY UNIT	Zone Oakd Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
ZOSTORM MANHOLES	Zone Oakd Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	UTL ZONE OAKD
MD SHOP CLEAN	Mechanical Distribution Shop MSSB	MD-SYSTEM		ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 CHILLED WATER	Zone 1 CHW Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 CHILLED WATER	Zone 1 Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 CHILLED WATER	Zone 1 CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 DOMESTIC WATER	Zone 1 Water Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 DOMESTIC WATER	Zone 1 Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 DOMESTIC WATER	Zone 1 Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 FIRE HYDRANTS	Zone 1 Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 SANITARY PIPING	Zone 1 Sanitary Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 SANITARY SYSTEM	Zone 1 Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM	Zone 1 Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM MANHOLES	Zone 1 Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM PIPING	Zone 1 Storm Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM SYSTEM	Zone 1 Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM VALVES	Zone 1 Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z1 STORM WATER QLTY	Zone 1 Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE1
Z2 CHILLED WATER	Zone 2 CHW Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 CHILLED WATER	Zone 2 Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 CHILLED WATER	Zone 2 CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 DOMESTIC WATER	Zone 2 Water Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 DOMESTIC WATER	Zone 2 Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 DOMESTIC WATER	Zone 2 Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 FIRE HYDRANTS	Zone 2 Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 SANITARY	Zone 2 Sanitary Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 SANITARY PIPING	Zone 2 Sanitary Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 SANITARY SYSTEM	Zone 2 Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM	Zone 2 Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM MANHOLES	Zone 2 Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM PIPING	Zone 2 Storm Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM SYSTEM	Zone 2 Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM VALVES	Zone 2 Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z2 STORM WATER QLTY	Zone 2 Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	UTL ZONE2
Z3 CHILLED WATER	Zone 3 CHW Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 CHILLED WATER	Zone 3 Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 CHILLED WATER	Zone 3 CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 DOMESTIC WATER	Zone 3 Water Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 DOMESTIC WATER	Zone 3 Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 DOMESTIC WATER	Zone 3 Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 FIRE HYDRANTS	Zone 3 Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 ORTHO WATER	Zone 3 Water Ortho Water Tunnel	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
Z3 SANITARY	Zone 3 Sanitary Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 SANITARY PIPING	Zone 3 Sanitary Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 SANITARY SYSTEM	Zone 3 Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 SFCH WATER	Zone 3 Water Childrens Water Tunnel	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 STORM	Zone 3 Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 STORM PIPING	Zone 3 Storm Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 STORM SYSTEM	Zone 3 Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 STORM VALVES	Zone 3 Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3 STORM WATER QLTY	Zone 3 Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z3STORM MANHOLES	Zone 3 Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE3
Z4 CHILLED WATER	Zone 4 CHW Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 CHILLED WATER	Zone 4 Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 CHILLED WATER	Zone 4 CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 DOMESTIC WATER	Zone 4 Water Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 DOMESTIC WATER	Zone 4 Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 DOMESTIC WATER	Zone 4 Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 FIRE HYDRANTS	Zone 4 Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 LEVEE LIFT STATION	Z4 Levee Lift Station	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 SANITARY	Zone 4 Sanitary Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 SANITARY PIPING	Zone 4 Sanitary Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 SANITARY SYSTEM	Zone 4 Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 STORM	Zone 4 Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 STORM PIPING	Zone 4 Storm Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 STORM SYSTEM	Zone 4 Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 STORM VALVES	Zone 4 Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4 STORM WATER QLTY	Zone 4 Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z4STORM MANHOLES	Zone 4 Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE4
Z5 CARVER LIFT	Zone 5 Sanitary Carver Lift Station	MD-	LIFT STATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 CHILLED WATER	Zone 5 CHW Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 CHILLED WATER	Zone 5 Chilled Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 CHILLED WATER	Zone 5 CHW Vaults and Tunnels	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 CHILLED WATER	Zone 5 CHW Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 DOMESTIC WATER	Zone 5 Water Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 DOMESTIC WATER	Zone 5 Domestic Water System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 DOMESTIC WATER	Zone 5 Water Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 FIRE HYDRANTS	Zone 5 Water Fire Hydrant	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 SANITARY	Zone 5 Sanitary Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 SANITARY PIPING	Zone 5 Sanitary Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 SANITARY SYSTEM	Zone 5 Sanitary System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 STORM	Zone 5 Storm Intakes/Outfalls	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 STORM PIPING	Zone 5 Storm Piping and Associated	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 STORM SYSTEM	Zone 5 Storm System	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
Z5 STORM VALVES	Zone 5 Storm Valves	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5 STORM WATER QLTY	Zone 5 Storm Water Qlty Unit	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
Z5STORM MANHOLES	Zone 5 Storm Manholes	MD-SYSTEM	DISTRIBUTION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	UTL ZONE5
A VAULTS	A Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1	A1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1ANCHORGUIDES	A1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1CONDPUMP	A1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1EXPANJOINT	A1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1INSBLK	A1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1INSULATION	A1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1STMVALVES	A1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1SUMPPMP	A1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1TRAPSTAT	A1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A1VENT	A1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2	A2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2ANCHORGUIDES	A2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2CONDPUMP	A2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2EXPANJOINT	A2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2INSBLK	A2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2INSULATION	A2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2STMVALVES	A2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2SUMPPMP	A2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2TRAPSTAT	A2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A2VENT	A2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3	A3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3ANCHORGUIDES	A3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3CONDPUMP	A3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3EXPANJOINT	A3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3INSBLK	A3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3INSULATION	A3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3STMVALVES	A3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3SUMPPMP	A3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3TRAPSTAT	A3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A3VENT	A3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4	A4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4ANCHORGUIDES	A4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4CONDPUMP	A4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4EXPANJOINT	A4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4INSBLK	A4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4INSULATION	A4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4STMVALVES	A4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4SUMPPMP	A4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
A4TRAPSTAT	A4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
A4VENT	A4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS A-STM
C VAULTS	C Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1	C1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1ANCHORGUIDES	C1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1CONDPUMP	C1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1EXPANJOINT	C1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1INSBLK	C1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1INSULATION	C1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1STMVALVES	C1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1SUMPPMP	C1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1TRAPSTAT	C1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C1VENT	C1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2	C2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2ANCHORGUIDES	C2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2CONDPUMP	C2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2EXPANJOINT	C2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2INSBLK	C2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2INSULATION	C2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2STMVALVES	C2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2SUMPPMP	C2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2TRAPSTAT	C2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C2VENT	C2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3	C3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3ANCHORGUIDES	C3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3CONDPUMP	C3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3EXPANJOINT	C3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3INSBLK	C3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3INSULATION	C3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3STMVALVES	C3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3SUMPPMP	C3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3TRAPSTAT	C3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C3VENT	C3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4	C4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4ANCHORGUIDES	C4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4CONDPUMP	C4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4EXPANJOINT	C4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4INSBLK	C4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4INSULATION	C4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4STMVALVES	C4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4SUMPPMP	C4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
C4TRAPSTAT	C4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
C4VENT	C4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS C-STM
D VAULTS	D Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1	D1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10	D10 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10ANCHORGUIDES	D10 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10CONDPUMP	D10 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10EXPANJOINT	D10 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10INSBLK	D10 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10INSULATION	D10 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10STMVALVES	D10 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10SUMPPMP	D10 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10TRAPSTAT	D10 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D10VENT	D10 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11	D11 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11ANCHORGUIDES	D11 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11CONDPUMP	D11 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11EXPANJOINT	D11 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11INSBLK	D11 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11INSULATION	D11 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11STMVALVES	D11 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11SUMPPMP	D11 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11TRAPSTAT	D11 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D11VENT	D11 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1ANCHORGUIDES	D1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1CONDPUMP	D1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1EXPANJOINT	D1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1INSBLK	D1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1INSULATION	D1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1STMVALVES	D1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1SUMPPMP	D1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1TRAPSTAT	D1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D1VENT	D1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2	D2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2ANCHORGUIDES	D2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2CONDPUMP	D2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2EXPANJOINT	D2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2INSBLK	D2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2INSULATION	D2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2STMVALVES	D2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2SUMPPMP	D2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2TRAPSTAT	D2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D2VENT	D2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
D3	D3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3ANCHORGUIDES	D3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3CONDPUMP	D3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3EXPANJOINT	D3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3INSBLK	D3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3INSULATION	D3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3STMVALVES	D3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3SUMPPMP	D3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3TRAPSTAT	D3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D3VENT	D3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4	D4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4ANCHORGUIDES	D4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4CONDPUMP	D4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4EXPANJOINT	D4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4INSBLK	D4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4INSULATION	D4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4STMVALVES	D4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4SUMPPMP	D4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4TRAPSTAT	D4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D4VENT	D4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5	D5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5ANCHORGUIDES	D5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5CONDPUMP	D5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5EXPANJOINT	D5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5INSBLK	D5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5INSULATION	D5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5STMVALVES	D5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5SUMPPMP	D5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5TRAPSTAT	D5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D5VENT	D5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6	D6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6ANCHORGUIDES	D6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6CONDPUMP	D6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6EXPANJOINT	D6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6INSBLK	D6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6INSULATION	D6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6STMVALVES	D6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6SUMPPMP	D6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6TRAPSTAT	D6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D6VENT	D6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7	D7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7ANCHORGUIDES	D7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
D7CONDPUMP	D7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7EXPANJOINT	D7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7INSBLK	D7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7INSULATION	D7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7STMVALVES	D7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7SUMPPMP	D7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7TRAPSTAT	D7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D7VENT	D7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8	D8 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8ANCHORGUIDES	D8 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8CONDPUMP	D8 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8EXPANJOINT	D8 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8INSBLK	D8 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8INSULATION	D8 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8STMVALVES	D8 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8SUMPPMP	D8 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8TRAPSTAT	D8 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D8VENT	D8 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9	D9 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9ANCHORGUIDES	D9 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9CONDPUMP	D9 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9EXPANJOINT	D9 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9INSBLK	D9 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9INSULATION	D9 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9STMVALVES	D9 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9SUMPPMP	D9 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9TRAPSTAT	D9 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
D9VENT	D9 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS D-STM
EB VAULTS	EB Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1	EB-1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1ANCHORGUIDES	EB-1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1CONDPUMP	EB-1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1EXPANJOINT	EB-1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1INSBLK	EB-1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1INSULATION	EB-1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1STMVALVES	EB-1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1SUMPPMP	EB-1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1TRAPSTAT	EB-1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
EB-1VENT	EB-1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	VAULTS EB-STM
BOYD TOW HPS PRV	Boyd Tower HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
BOYD TOW LPS PRV	Boyd Tower HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F VAULTS	F Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
F1	F1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10	F10 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10ANCHORGUIDES	F10 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10CONDPUMP	F10 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10EXPANJOINT	F10 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10INSBLK	F10 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10INSULATION	F10 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10STMVALVES	F10 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10SUMPPMP	F10 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10TRAPSTAT	F10 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F10VENT	F10 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13	F13 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13ANCHORGUIDES	F13 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13CONDPUMP	F13 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13EXPANJOINT	F13 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13INSBLK	F13 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13INSULATION	F13 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13STMVALVES	F13 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13SUMPPMP	F13 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13TRAPSTAT	F13 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F13VENT	F13 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14	F14 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14 A	***W15 took over for vault erroneously named F14A***F14 A Fan Vault for F14 Steam Vaults	MD-SYSTEM	STEAM VAULTS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14ANCHORGUIDES	F14 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14ASUMPPUMP	***W15 took over for vault erroneously named F14A***F14 A Fan Vault Sump	MD-SYSTEM	SUMP PUMPS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14AVENT	***W15 took over for vault erroneously named F14A***F14 A Ventilation Units	MD-SYSTEM	VENTILATION UNITS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14CONDPUMP	F14 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14EXPANJOINT	F14 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14INSBLK	F14 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14INSULATION	F14 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14STMVALVES	F14 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14SUMPPMP	F14 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14TRAPSTAT	F14 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F14VENT	F14 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15	F15 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15ANCHORGUIDES	F15 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15CONDPUMP	F15 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
F15EXPANJOINT	F15 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15INSBLK	F15 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15INSULATION	F15 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15STMVALVES	F15 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15SUMPPMP	F15 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15TRAPSTAT	F15 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F15VENT	F15 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16	F16 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16ANCHORGUIDES	F16 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16CONDPUMP	F16 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16EXPANJOINT	F16 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16INSBLK	F16 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16INSULATION	F16 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16STMVALVES	F16 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16SUMPPMP	F16 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16TRAPSTAT	F16 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F16VENT	F16 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17	F17 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17ANCHORGUIDES	F17 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17CONDPUMP	F17 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17EXPANJOINT	F17 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17INSBLK	F17 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17INSULATION	F17 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17STMVALVES	F17 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17SUMPPMP	F17 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17TRAPSTAT	F17 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F17VENT	F17 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18	F18 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18ANCHORGUIDES	F18 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18CONDPUMP	F18 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18EXPANJOINT	F18 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18INSBLK	F18 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18INSULATION	F18 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18STMVALVES	F18 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18SUMPPMP	F18 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18TRAPSTAT	F18 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F18VENT	F18 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19	F19 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19ANCHORGUIDES	F19 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19CONDPUMP	F19 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19EXPANJOINT	F19 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19INSBLK	F19 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
F19INSULATION	F19 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19STMVALVES	F19 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19SUMPPMP	F19 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19TRAPSTAT	F19 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F19VENT	F19 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1ANCHORGUIDES	F1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1CONDPUMP	F1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1EXPANJOINT	F1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1INSBLK	F1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1INSULATION	F1 Insulation	MD-SYSTEM	INSULATION	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1STMVALVES	F1 Steam Valves	MD-SYSTEM	STEAM VALVES	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1SUMPPMP	F1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1TRAPSTAT	F1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F1VENT	F1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2	F2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20ANCHORGUIDES	F20 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20CONDPUMP	F20 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20EXPANJOINT	F20 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20INSBLK	F20 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20INSULATION	F20 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20STMVALVES	F20 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20SUMPPMP	F20 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20TRAPSTAT	F20 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F20VENT	F20 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2ANCHORGUIDES	F2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2CONDPUMP	F2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2EXPANJOINT	F2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2INSBLK	F2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2INSULATION	F2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2STMVALVES	F2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2SUMPPMP	F2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2TRAPSTAT	F2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F2VENT	F2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
F3	F3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3ANCHORGUIDES	F3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3CONDPUMP	F3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3EXPANJOINT	F3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3INSBLK	F3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3INSULATION	F3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3STMVALVES	F3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3SUMPPMP	F3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3TRAPSTAT	F3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F3VENT	F3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4	F4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4ANCHORGUIDES	F4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4CONDPUMP	F4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4EXPANJOINT	F4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4INSBLK	F4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4INSULATION	F4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4STMVALVES	F4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4SUMPPMP	F4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4TRAPSTAT	F4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F4VENT	F4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5	F5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5ANCHORGUIDES	F5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5CONDPUMP	F5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5EXPANJOINT	F5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5INSBLK	F5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5INSULATION	F5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5STMVALVES	F5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5SUMPPMP	F5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5TRAPSTAT	F5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F5VENT	F5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6	F6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6ANCHORGUIDES	F6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6CONDPUMP	F6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6EXPANJOINT	F6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6INSBLK	F6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6INSULATION	F6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6STMVALVES	F6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6SUMPPMP	F6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6TRAPSTAT	F6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F6VENT	F6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7	F7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7ANCHORGUIDES	F7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
F7CONDPUMP	F7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7EXPANJOINT	F7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7INSBLK	F7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7INSULATION	F7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7STMVALVES	F7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7SUMPPMP	F7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7TRAPSTAT	F7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F7VENT	F7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8	F8 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8ANCHORGUIDES	F8 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8CONDPUMP	F8 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8EXPANJOINT	F8 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8INSBLK	F8 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8INSULATION	F8 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8STMVALVES	F8 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8SUMPPMP	F8 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8TRAPSTAT	F8 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F8VENT	F8 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9	F9 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9ANCHORGUIDES	F9 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9CONDPUMP	F9 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9EXPANJOINT	F9 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9INSBLK	F9 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9INSULATION	F9 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9STMVALVES	F9 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9SUMPPMP	F9 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9TRAPSTAT	F9 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
F9VENT	F9 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
HLS PRV	Hardin Library PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
MRC PRV	MRC PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS F-STM
ARENA PRV	Arena PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
DENTAL HPS PRV	Dental HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
DENTAL RELIEF PRV	Dental Relief HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G VAULTS	G Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1	G1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10	G10 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10ANCHORGUIDES	G10 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10CONDPUMP	G10 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10EXPANJOINT	G10 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10INSBLK	G10 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10INSULATION	G10 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10STMVALVES	G10 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
G10SUMPPMP	G10 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10TRAPSTAT	G10 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G10VENT	G10 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11	G11 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11ANCHORGUIDES	G11 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11CONDPUMP	G11 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11EXPANJOINT	G11 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11INSBLK	G11 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11INSULATION	G11 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11STMVALVES	G11 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11SUMPPMP	G11 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11TRAPSTAT	G11 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G11VENT	G11 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13	G13 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13ANCHORGUIDES	G13 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13CONDPUMP	G13 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13EXPANJOINT	G13 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13INSBLK	G13 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13INSULATION	G13 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13STMVALVES	G13 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13SUMPPMP	G13 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13TRAPSTAT	G13 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G13VENT	G13 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14	G14 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14ANCHORGUIDES	G14 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14CONDPUMP	G14 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14EXPANJOINT	G14 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14INSBLK	G14 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14INSULATION	G14 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14STMVALVES	G14 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14SUMPPMP	G14 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14TRAPSTAT	G14 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G14VENT	G14 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15	G15 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15ANCHORGUIDES	G15 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15CONDPUMP	G15 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15EXPANJOINT	G15 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15INSBLK	G15 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15INSULATION	G15 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15STMVALVES	G15 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15SUMPPMP	G15 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G15TRAPSTAT	G15 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
G15VENT	G15 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16	G16 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16ANCHORGUIDES	G16 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16CONDPUMP	G16 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16EXPANJOINT	G16 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16INSBLK	G16 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16INSULATION	G16 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16STMVALVES	G16 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16SUMPPMP	G16 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16TRAPSTAT	G16 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G16VENT	G16 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17	G17 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17ANCHORGUIDES	G17 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17CONDPUMP	G17 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17EXPANJOINT	G17 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17INSBLK	G17 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17INSULATION	G17 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17STMVALVES	G17 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17SUMPPMP	G17 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17TRAPSTAT	G17 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G17VENT	G17 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1ANCHORGUIDES	G1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1CONDPUMP	G1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1EXPANJOINT	G1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1INSBLK	G1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1INSULATION	G1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1STMVALVES	G1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1SUMPPMP	G1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1TRAPSTAT	G1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G1VENT	G1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2	G2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2ANCHORGUIDES	G2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2CONDPUMP	G2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2EXPANJOINT	G2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2INSBLK	G2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2INSULATION	G2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2STMVALVES	G2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2SUMPPMP	G2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2TRAPSTAT	G2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G2VENT	G2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3	G3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3ANCHORGUIDES	G3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
G3CONDPUMP	G3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3EXPANJOINT	G3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3INSBLK	G3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3INSULATION	G3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3STMVALVES	G3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3SUMPPMP	G3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3TRAPSTAT	G3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G3VENT	G3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4	G4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4ANCHORGUIDES	G4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4CONDPUMP	G4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4EXPANJOINT	G4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4INSBLK	G4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4INSULATION	G4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4STMVALVES	G4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4SUMPPMP	G4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4TRAPSTAT	G4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G4VENT	G4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5	G5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5ANCHORGUIDES	G5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5CONDPUMP	G5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5EXPANJOINT	G5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5INSBLK	G5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5INSULATION	G5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5STMVALVES	G5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5SUMPPMP	G5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5TRAPSTAT	G5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G5VENT	G5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6	G6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6ANCHORGUIDES	G6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6CONDPUMP	G6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6EXPANJOINT	G6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6INSBLK	G6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6INSULATION	G6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6STMVALVES	G6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6SUMPPMP	G6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6TRAPSTAT	G6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G6VENT	G6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7	G7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7ANCHORGUIDES	G7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7CONDPUMP	G7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7EXPANJOINT	G7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
G7INSBLK	G7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7INSULATION	G7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7STMVALVES	G7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7SUMPPMP	G7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7TRAPSTAT	G7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G7VENT	G7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8	G8 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8ANCHORGUIDES	G8 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8CONDPUMP	G8 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8EXPANJOINT	G8 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8INSBLK	G8 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8INSULATION	G8 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8STMVALVES	G8 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8SUMPPMP	G8 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8TRAPSTAT	G8 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G8VENT	G8 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9	G9 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9ANCHORGUIDES	G9 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9CONDPUMP	G9 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9EXPANJOINT	G9 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9INSBLK	G9 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9INSULATION	G9 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9STMVALVES	G9 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9SUMPPMP	G9 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9TRAPSTAT	G9 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
G9VENT	G9 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
JACOBSEN PRV	Jacobsen HPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS G-STM
H VAULTS	H Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1	H1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1ANCHORGUIDES	H1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1CONDPUMP	H1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1EXPANJOINT	H1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1INSBLK	H1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1INSULATION	H1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1STMVALVES	H1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1SUMPPMP	H1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1TRAPSTAT	H1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H1VENT	H1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2	H2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2ANCHORGUIDES	H2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2CONDPUMP	H2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2EXPANJOINT	H2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
H2INSBLK	H2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2INSULATION	H2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2STMVALVES	H2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2SUMPPMP	H2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2TRAPSTAT	H2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H2VENT	H2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3	H3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3ANCHORGUIDES	H3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3CONDPUMP	H3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3EXPANJOINT	H3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3INSBLK	H3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3INSULATION	H3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3STMVALVES	H3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3SUMPPMP	H3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3TRAPSTAT	H3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H3VENT	H3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4	H4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4ANCHORGUIDES	H4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4CONDPUMP	H4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4EXPANJOINT	H4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4INSBLK	H4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4INSULATION	H4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4STMVALVES	H4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4SUMPPMP	H4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4TRAPSTAT	H4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H4VENT	H4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5	H5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5ANCHORGUIDES	H5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5CONDPUMP	H5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5EXPANJOINT	H5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5INSBLK	H5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5INSULATION	H5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5STMVALVES	H5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5SUMPPMP	H5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5TRAPSTAT	H5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H5VENT	H5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6	H6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6ANCHORGUIDES	H6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6CONDPUMP	H6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6EXPANJOINT	H6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6INSBLK	H6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6INSULATION	H6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
H6STMVALVES	H6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6SUMPPMP	H6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6TRAPSTAT	H6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H6VENT	H6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7	H7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7ANCHORGUIDES	H7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7CONDPUMP	H7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7EXPANJOINT	H7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7INSBLK	H7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7INSULATION	H7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7STMVALVES	H7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7SUMPPMP	H7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7TRAPSTAT	H7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
H7VENT	H7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS H-STM
OS VAULTS	OS Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1	OS1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10	OS10 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10ANCHORGUIDES	OS10 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10CONDPUMP	OS10 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10EXPANJOINT	OS10 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10INSBLK	OS10 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10INSULATION	OS10 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10STMVALVES	OS10 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10SUMPPMP	OS10 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10TRAPSTAT	OS10 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS10VENT	OS10 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1ANCHORGUIDES	OS1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1CONDPUMP	OS1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OS1EXPANJOINT	OS1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1INSBLK	OS1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1INSULATION	OS1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1STMVALVES	OS1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1SUMPPMP	OS1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1TRAPSTAT	OS1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS1VENT	OS1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2	OS2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2ANCHORGUIDES	OS2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2CONDPUMP	OS2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2EXPANJOINT	OS2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2INSBLK	OS2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2INSULATION	OS2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2STMVALVES	OS2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2SUMPPMP	OS2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2TRAPSTAT	OS2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS2VENT	OS2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3	OS3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3ANCHORGUIDES	OS3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3CONDPUMP	OS3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3EXPANJOINT	OS3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OS3INSBLK	OS3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3INSULATION	OS3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3STMVALVES	OS3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3SUMPPMP	OS3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3TRAPSTAT	OS3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS3VENT	OS3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4	OS4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4ANCHORGUIDES	OS4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4CONDPUMP	OS4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4EXPANJOINT	OS4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4INSBLK	OS4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4INSULATION	OS4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4STMVALVES	OS4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4SUMPPMP	OS4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4TRAPSTAT	OS4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS4VENT	OS4 Ventilation Units A39 Belt	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5	OS5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5ANCHORGUIDES	OS5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5CONDPUMP	OS5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5EXPANJOINT	OS5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5INSBLK	OS5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OS5INSULATION	OS5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5STMVALVES	OS5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5SUMPPMP	OS5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5TRAPSTAT	OS5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS5VENT	OS5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6	OS6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6ANCHORGUIDES	OS6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6CONDPUMP	OS6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6EXPANJOINT	OS6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6INSBLK	OS6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6INSULATION	OS6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6STMVALVES	OS6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6SUMPPMP	OS6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6TRAPSTAT	OS6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS6VENT	OS6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7	OS7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7ANCHORGUIDES	OS7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7CONDPUMP	OS7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7EXPANJOINT	OS7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7INSBLK	OS7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7INSULATION	OS7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OS7STMVALVES	OS7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7SUMPPMP	OS7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7TRAPSTAT	OS7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS7VENT	OS7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8	OS8 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8ANCHORGUIDES	OS8 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8CONDPUMP	OS8 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8EXPANJOINT	OS8 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8INSBLK	OS8 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8INSULATION	OS8 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8STMVALVES	OS8 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8SUMPPMP	OS8 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8TRAPSTAT	OS8 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS8VENT	OS8 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9	OS9 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9ANCHORGUIDES	OS9 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9CONDPUMP	OS9 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9EXPANJOINT	OS9 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9INSBLK	OS9 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9INSULATION	OS9 Insulation	MD-SYSTEM	INSULATION	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9STMVALVES	OS9 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
OS9SUMPPMP	OS9 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9TRAPSTAT	OS9 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
OS9VENT	OS9 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	VAULTS OAKDALE
R VAULTS	R Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1	R1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1ANCHORGUIDES	R1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1CONDPUMP	R1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1EXPANJOINT	R1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1INSBLK	R1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1INSULATION	R1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1STMVALVES	R1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1SUMPPMP	R1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1TRAPSTAT	R1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R1VENT	R1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2	R2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2ANCHORGUIDES	R2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2CONDPUMP	R2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2EXPANJOINT	R2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2INSBLK	R2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2INSULATION	R2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2STMVALVES	R2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2SUMPPMP	R2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2TRAPSTAT	R2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R2VENT	R2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3	R3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3ANCHORGUIDES	R3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3CONDPUMP	R3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3EXPANJOINT	R3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3INSBLK	R3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3INSULATION	R3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3STMVALVES	R3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3SUMPPMP	R3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3TRAPSTAT	R3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R3VENT	R3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4	R4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4ANCHORGUIDES	R4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4CONDPUMP	R4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4EXPANJOINT	R4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4INSBLK	R4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
R4INSULATION	R4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4STMVALVES	R4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4SUMPPMP	R4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4TRAPSTAT	R4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
R4VENT	R4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS R-STM
UIHC-1	UIHC-1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1ANCHORGUIDES	UIHC-1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1CONDPUMP	UIHC-1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1EXPANJOINT	UIHC-1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1INSBLK	UIHC-1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1INSULATION	UIHC-1 Insulation	MD-SYSTEM	INSULATION	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1STMVALVES	UIHC-1 Steam Valves	MD-SYSTEM	STEAM VALVES	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1SUMPPMP	UIHC-1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1TRAPSTAT	UIHC-1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING STATIONS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
UIHC-1VENT	UIHC-1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	INACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS UIHC-STM
BOYD LAW PRV	Boyd Law PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
HILLCREST HPS PRV	Hillcrest PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
HILLCREST LPS PRV	Hillcrest PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
PETERSEN PRV	Petersen PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
SQ LPS PRV	SQ LPS PRV	MD-	PRVS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W VAULTS	W Vaults Group	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1	W1 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10	W10 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10ANCHORGUIDES	W10 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10CONDPUMP	W10 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10EXPANJOINT	W10 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10INSBLK	W10 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10INSULATION	W10 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10STMVALVES	W10 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10SUMPPMP	W10 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10TRAPSTAT	W10 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W10VENT	W10 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
W11	W11 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11ANCHORGUIDES	W11 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11CONDPUMP	W11 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11EXPANJOINT	W11 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11INSBLK	W11 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11INSULATION	W11 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11STMVALVES	W11 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11SUMPPMP	W11 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11TRAPSTAT	W11 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W11VENT	W11 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12	W12 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12ANCHORGUIDES	W12 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12CONDPUMP	W12 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12EXPANJOINT	W12 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12INSBLK	W12 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12INSULATION	W12 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12STMVALVES	W12 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12SUMPPMP	W12 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12TRAPSTAT	W12 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W12VENT	W12 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13	W13 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13ANCHORGUIDES	W13 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13CONDPUMP	W13 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13EXPANJOINT	W13 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13INSBLK	W13 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13INSULATION	W13 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13STMVALVES	W13 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13SUMPPMP	W13 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13TRAPSTAT	W13 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W13VENT	W13 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14	W14 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14ANCHORGUIDES	W14 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14CONDPUMP	W14 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14EXPANJOINT	W14 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14INSBLK	W14 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14INSULATION	W14 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14STMVALVES	W14 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14SUMPPMP	W14 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14TRAPSTAT	W14 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W14VENT	W14 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1ANCHORGUIDES	W1 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1CONDPUMP	W1 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
W1EXPANJOINT	W1 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1INSBLK	W1 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1INSULATION	W1 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1STMVALVES	W1 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1SUMPPMP	W1 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1TRAPSTAT	W1 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W1VENT	W1 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2	W2 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2ANCHORGUIDES	W2 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2CONDPUMP	W2 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2EXPANJOINT	W2 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2INSBLK	W2 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2INSULATION	W2 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2STMVALVES	W2 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2SUMPPMP	W2 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2TRAPSTAT	W2 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W2VENT	W2 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3	W3 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3ANCHORGUIDES	W3 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3CONDPUMP	W3 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3EXPANJOINT	W3 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3INSBLK	W3 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3INSULATION	W3 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3STMVALVES	W3 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3SUMPPMP	W3 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3TRAPSTAT	W3 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W3VENT	W3 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4	W4 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4ANCHORGUIDES	W4 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4CONDPUMP	W4 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4EXPANJOINT	W4 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4INSBLK	W4 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4INSULATION	W4 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4STMVALVES	W4 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4SUMPPMP	W4 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4TRAPSTAT	W4 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W4VENT	W4 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5	W5 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5ANCHORGUIDES	W5 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5CONDPUMP	W5 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5EXPANJOINT	W5 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5INSBLK	W5 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
W5INSULATION	W5 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5STMVALVES	W5 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5SUMPPMP	W5 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5TRAPSTAT	W5 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W5VENT	W5 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6	W6 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6ANCHORGUIDES	W6 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6CONDPUMP	W6 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6EXPANJOINT	W6 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6INSBLK	W6 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6INSULATION	W6 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6STMVALVES	W6 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6SUMPPMP	W6 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6TRAPSTAT	W6 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W6VENT	W6 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7	W7 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7ANCHORGUIDES	W7 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7CONDPUMP	W7 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7EXPANJOINT	W7 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7INSBLK	W7 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7INSULATION	W7 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7STMVALVES	W7 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7SUMPPMP	W7 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7TRAPSTAT	W7 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W7VENT	W7 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8	W8 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8ANCHORGUIDES	W8 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8CONDPUMP	W8 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8EXPANJOINT	W8 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8INSBLK	W8 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8INSULATION	W8 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8STMVALVES	W8 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8SUMPPMP	W8 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8TRAPSTAT	W8 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W8VENT	W8 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9	W9 Steam Vaults	MD-SYSTEM	STEAM VAULTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9ANCHORGUIDES	W9 Anchors and Guides	MD-SYSTEM	ANCHORS AND GUIDES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9CONDPUMP	W9 Condensate Pumps	MD-SYSTEM	CONDENSATE PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9EXPANJOINT	W9 Expansion Joints	MD-SYSTEM	EXPANSION JOINTS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9INSBLK	W9 Insulation Blankets	MD-SYSTEM	INSULATION BLANKET	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9INSULATION	W9 Insulation	MD-SYSTEM	INSULATION	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9STMVALVES	W9 Steam Valves	MD-SYSTEM	STEAM VALVES	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
W9SUMPPMP	W9 Sump Pumps	MD-SYSTEM	SUMP PUMPS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9TRAPSTAT	W9 Steam Trapping Stations	MD-SYSTEM	STEAM TRAPPING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
W9VENT	W9 Ventilation Units	MD-SYSTEM	VENTILATION UNITS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	VAULTS W-STM
WP-CHLORINE	Water Plant Chlorine Contact Tank	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-FILT	Water Plant Filter System	SYSTEM	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-GENERATOR	Water Plant Generator System	SYSTEM	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-INTAKE	Water Plant Intake System	SYSTEM	INTAKE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-PIPING	Water Plant Piping System	SYSTEM	PIPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-PUMPS/STORAGE	Water Plant Pumps and Storage System	SYSTEM	PUMPS/STORAGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO FEED PMP 1	Water Plant Reverse Osmosis System Feed Pump 1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO FEED PMP 2	Water Plant Reverse Osmosis System Feed Pump 2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 1	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 2	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 3	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SDF	Water Plant Sludge Dewatering Facility System	SYSTEM	SDF	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SED BASIN	Water Plant Sed Basin System	SYSTEM	SED BASIN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SOFTENER/RECARB	Water Plant Softener and Recarb System	SYSTEM	SOFTENER/RECARB	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12456	185EMS : EMERG LAB SHOWERS &	SYSTEM	EMERGENCY SHOWER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12458	185VFD : RM 201 - VFD	SERIALIZED	VARIABLE FREQUENCY	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12459	AHU-1, ROOF-UPPER, 0185 MAINTENANCE BY BLS AIR HANDLER SERVING 2ND FLOOR CLASSROOM/LABS LOCATION : SOUTH SIDE OF UPPER ROOF	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12460	EF-D, ROOF-UPPER, 0185 EXHAUST FAN FOR ATTIC, ACCESS THROUGH ROOF HATCH 2ND FLOOR LOCATION: MIDDLE OF UPPER ROOF FORMERLY: 185-ROOF-UPPER-FAM-FAC-	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12461	EF-2, ROOF-UPPER, 0185 MAINTENANCE BY BLS EXHAUST FAN, ACCESS THROUGH ROOF HATCH 2ND FLOOR LOCATION: SOUTHEAST SIDE OF UPPER ROOF	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
12465	CU-1, ROOF-UPPER, 0185 MAINTENANCE BY BLS CONDENSING UNIT FOR AHU 1 LOCATION : SOUTHEAST CORNER OF UPPER ROOF FORMERLY: 185-ROOF-UPPER-TS-CU-1	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12466	CU-2, ROOF-UPPER, 0185 CONDENSING UNIT SERVING ??? LOCATION : SOUTHWEST CORNER OF UPPER ROOF FORMERLY: 185-ROOF-UPPER-TS-CU-2	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12469	185-7-PAS-ELEV-1 : PASSENGER ELEVATOR LOCATION :	SERIALIZED	ELEVATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12470	AHU, ROOF-NORTH, 0185 AIR HANDLER SERVING ??? LOCATION : SOUTHWEST CORNER OF LOWER NORTH ROOF FORMERLY: 185-ROOF-NORTH-FAM-FAC-	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12476	EF-V, BSMT, 0185 EXHAUST FAN FOR CHEMICAL HOOD, 8' LADDER LOCATION: FAR EAST WALL OF BASEMENT	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12478	EF-1, ROOF, 0185 MAINTENANCE BY BLS EXHAUST FAN, ACCESS THROUGH ROOF HATCH 2ND FLOOR LOCATION: MIDDLE OF SOUTH LOWER ROOF	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12479	EF-2, ROOF, 0185 MAINTENANCE BY BLS EXHAUST FAN, ACCESS THROUGH ROOF HATCH 2ND FLOOR LOCATION: SOUTHWEST SIDE OF LOWER SOUTH ROOF FORMERLY: 185-ROOF-FAM-FAC-2	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12480	EF-E, ROOF, 0185 MAINTENANCE BY BLS EXHAUST FAN, ACCESS THROUGH ROOF HATCH 2ND FLOOR LOCATION: WEST SIDE OF LOWER SOUTH ROOF	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
12481	EF-P, ROOF, 0185 EXHAUST FAN LOCATION: NORTHEAST SIDE OF NORTH LOWER ROOF FORMERLY: 185-ROOF-FAM-FAC-P	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12486	CU-1, ROOF, 0185 MAINTENANCE BY BLS CONDENSING UNIT SERVING WALK IN COOLER LOCATION : NORTHWEST CORNER OF LOWER ROOF	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
12488	EF-O, STAIR, 0185 EXHAUST FAN FOR STAIRWELL LOCATION: STAIRWELL 1ST FLOOR LANDING	SERIALIZED	FAN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
43413	0185-SED-TK-0001 : SEDIMENTATION	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
43474	0185-RECARB-CMPR-0001 : CO2 TANK COMPRESSOR	SERIALIZED	COMPRESSOR AIR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
57409	185EL : EMERGENCY/EXIT LIGHTS	SERIALIZED	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
57586	0185 - BUILDING WIDE - CONTROLS, HVAC (ANDOVER)	SYSTEM	HVAC CONTROLS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
58162	FIRE SAFETY INSPECTION (2), 0185 WP	SERIALIZED	SAFETY DEVICE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
58382	Access control and security cameras	PROPERTY COMPONENT		ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
58602	FIRE ALARM SYSTEM, 0185 WP	SYSTEM	FIRE ALARM DEVICES	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
60057	EM SHOWER, 207A, 0185	SERIALIZED	EM SHOWER AND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
60058	EM SHOWER, 211, 0185	SERIALIZED	EM SHOWER AND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
60059	EM SHOWER, 211A, 0185	SERIALIZED	EM SHOWER AND	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
60935	GEF EMERG PLUMBING FIXTURES, SYSTEM, 0185 BUILDING WIDE EMERGENCY	SYSTEM	EMERGENCY SHOWER AND E	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
60938	MFK NEEDED DEPARTMENTAL EMERG PLUMBING FIXTURES, SYSTEM, 0185 BUILDING WIDE EMERGENCY PLUMBING FIXTURE SYSTEM	SYSTEM	EMERGENCY SHOWER AND E	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
61230	PM BATCH 1, SYSTEM, 0185 AIR HANDLING UNIT, CONDENSORS, AND EXHAUST FANS PREVENTIVE MAINTENANCE BATCHING ASSET	SYSTEM	PM ROUTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
61231	WALK-IN FREEZER, 220, 0185 MAINTENANCE BY BLS WALK-IN FREEZER CONDENSER LOCATED ON TOP LOCATION: OUTSIDE DOOR TO LEFT, IN PRODUCTION AREA	SERIALIZED	COMPRESSOR REFRIGERATION	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
65225	EMERGENCY SHOWER/COMBO FIXTURES, SYSTEM, 0185 ALL BUILDING EMERGENCY SHOWER/COMBO UNITS, ANNUAL PM NOTE: SEE STANDARD FOR LOCATIONS	SYSTEM	EMERGENCY SHOWER AND E	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
65332	EMERGENCY LIGHTS, SYSTEM, 0185 BUILDING WIDE EMERGENCY AND EXIT LIGHTING SEE RELATED DOCUMENTS FOR FLOOR	SYSTEM	EMERGENCY LIGHTING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
65800	ROOF, WATER PLANT ROOF, 0185 VERTUAL ASSET ROOFTOP COILS	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
65854	0185, 203 ITS FAN COIL FILTERS WATER	SERIALIZED	AIR HANDLING UNIT	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-CHLORINE	Water Plant Chlorine Contact Tank	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-FILT	Water Plant Filter System	SYSTEM	FILTER	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-GENERATOR	Water Plant Generator System	SYSTEM	GENERATOR	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-INTAKE	Water Plant Intake System	SYSTEM	INTAKE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-PIPING	Water Plant Piping System	SYSTEM	PIPING	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-PUMPS/STORAGE	Water Plant Pumps and Storage System	SYSTEM	PUMPS/STORAGE	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO FEED PMP 1	Water Plant Reverse Osmosis System Feed Pump 1	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO FEED PMP 2	Water Plant Reverse Osmosis System Feed Pump 2	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 1	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 2	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-RO SKID 3	Water Plant Reverse Osmosis System	SYSTEM	RO SYSTEM	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SDF	Water Plant Sludge Dewatering Facility System	SYSTEM	SDF	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SED BASIN	Water Plant Sed Basin System	SYSTEM	SED BASIN	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
WP-SOFTENER/RECARB	Water Plant Softener and Recarb System	SYSTEM	SOFTENER/RECARB	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
185	WATER PLANT WP	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	EAST CAMPUS	Water Plant Main
346	TEMPORARY BOILER BUILDING	PROPERTY	BUILDINGS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43587	0346-WCBF-CON-TRAP-005 : CONDENSATE SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43588	0346-WCBF-BDS-TRAP-001 : TEMPERARY BOILER 1 STEAM DRUM	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43589	0346-WCBF-BDS-TRAP-002 : TEMPERARY BOILER 1 STEAM DRUM OIL SYSTEM BLOWDOWN TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43590	0346-WCBF-BLR2-TRAP-200 : BLOW DOWN SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43591	0346-WCBF-BLR2-TRAP-201 : BLOW DOWN SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43592	0346-WCBF-BLR2-TRAP-202 : BLR2 BLOW DOWN SYSTEM TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43593	0346-WCBF-CON-TRAP-004 : WCBF CONDENSATE TRAP OFF BOILER 2	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43594	0346-WCBF-FW-VAC-300 : FEEDWATER SYSTEM DEAERATOR TANK VACUUM	SERIALIZED	BREAKER VACUUM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43595	0346-WCBF-BLR2-WC-301 : STEAM DRUM WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43596	0346-WCBF-CON-TRAP-003 : TRAP	SERIALIZED	TRAP	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43597	0346-WCBF-BLR2-YS-203 : IGNITOR GAS SUPPLY STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43598	0346-WCBF-BLR1-YS-001 : BOILER 1 STEAM OIL CLEANOUT STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43599	0346-WCBF-BLR1-YS-101 : BOILER 1 WATER DRUM FEEDWATER STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43600	0346-WCBF-BLR1-YS-202 : BOILER 1 GAS SUPPLY STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43601	0346-WCBF-BLR1-YS-203 : BOILER 1 IGNITOR GAS SUPPLY STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43602	0346-WCBF-BLR2-YS-001 : STEAM OIL CLEANOUT STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43603	0346-WCBF-MUS-YS-302 : MAKE-UP WATER SYSTEM BRINE PUMP 2 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43604	0346-WCBF-BLR2-YS-202 : WCBF BOILER 2 GAS SUPPLY STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43605	0346-WCBF-CON-YS-402 : WCBF CONDENSATE SYSTEM WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43606	0346-WCBF-CON-YS-404 : WCBF WYE STRAINER FROM WEST AIR INTAKE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43607	0346-WCBF-FW-YS-301 : FEEDWATER PUMP 1 STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43608	0346-WCBF-FW-YS-302 : FEEDWATER PUMP 2 STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43609	0346-WCBF-FW-YS-303 : FEEDWATER PUMP 3 STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43610	0346-WCBF-MPS-YS-401 : WCBF MEDIUM PRESSURE STREAM WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43611	0346-WCBF-CFS-WC-302 : CHEMICAL FEED SYSTEM WATER COLUMN FOR	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43612	0346-WCBF-BLR2-YS-101 : WATER DRUM FEEDWATER STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43613	0346-WCBF-OIL-YS-001 : OIL SUPPLY	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43614	0346-WCBF-CFS-WC-301 : CHEMICAL FEED SYSTEM WATER COLUMN FOR	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43615	0346-WCBF-CFS-WC-303 : CHEMICAL FEED SYSTEM WATER COLUMN FOR	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43616	0346-WCBF-FW-WC-300 : FEEDWATER DEAERATOR WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43617	0346-WCBF-MUS-YS-301 : MAKE-UP WATER SYSTEM BRINE PUMP 1 OUTLET	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43618	0346-WCBF-MPS-YS-405 : WCBF MEDIUM PRESSURE STEAM WYE	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43619	0346-WCBF-MPS-YS-404 : WCBF MEDIUM PRESSURE STEAM SYSTEM	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43620	0346-WCBF-MPS-YS-403 : BOILER 2 INTAKE AIR HEATER WYE STRAINER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43621	0346-WCBF-MPS-YS-402 : WCBF MPS SYSTEM BOILER 1 INTAKE AIR HEATER	SERIALIZED	STRAINER WYE PATTERN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43622	0346-WCBF-BLR1-WC-301 : BOILER 1 STEAM DRUM WATER COLUMN	SERIALIZED	WATER COLUMN	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43623	0346-WCBF-BLR1-V-306 : BOILER 1 STEAM DRUM LT DRAIN TO BDS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43624	0346-WCBF-MPS-V-453 : BOILER 2 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43625	0346-WCBF-MPS-V-469 : WCBF BOILER 1 MEDIUM PRESSURE STEAM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43626	0346-WCBF-MPS-V-445 : BOILER 1 INTAKE AIR HEATER WYE STRAIN DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43627	0346-WCBF-MPS-V-446 : BOILER 2 EAST INTAKE AIR HEATER OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43628	0346-WCBF-MPS-V-447 : BOILER 2 INTAKE AIR HEATER WYE STRAIN DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43629	0346-WCBF-MPS-V-449 : WCBF BOILER 2 EAST MEDIUM PRESSURE STEAM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43630	0346-WCBF-MPS-V-450 : BOILER 2 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43631	0346-WCBF-MPS-V-413 : MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43632	0346-WCBF-MPS-V-452 : BOILER 2 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43633	0346-WCBF-GFS-V-433 : GAS SUPPLY ISOLATION VALVE FOR TEMPORARY	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43634	0346-WCBF-MPS-V-456 : WCBF BOILER 2 MEDIUM PRESSURE STEAM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43635	0346-WCBF-MPS-V-457 : WCBF BOILER 2 MEDIUM PRESSURE STEAM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43636	0346-WCBF-MPS-V-463 : BOILER 1 HEADER PRIMARY CONNECTION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43637	0346-WCBF-MPS-V-465 : WCBF MEDIUM PRESSURE STEAM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43638	0346-WCBF-MPS-V-466 : BOILER 2 HEADER CONNECTION BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43639	0346-WCBF-FW-V-310 : FEEDWATER PUMP 2 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43640	0346-WCBF-MPS-V-451 : BOILER 2 STEAM DRUM OUTLET MEDIUM PRESSURE OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43641	0346-WCBF-GFS-V-420 : GAS SUPPLY GAS FILTER BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43642	0346-WCBF-BLR1-V-304 : BOILER 1 STEAM DRUM LT ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43643	0346-WCBF-FW-V-316 : FEEDWATER PUMP 3 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43644	0346-WCBF-FW-V-319 : FEEDWATER SYSTEM DEAERATOR TANK PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43645	0346-WCBF-FW-V-320 : DEAERATOR WATER COLUMN DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43646	0346-WCBF-FW-V-323 :	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43647	0346-WCBF-GFS-V-411 : GAS SUPPLY PRESSURE VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43648	0346-WCBF-MPS-V-444 : BOILER 1 EAST INTAKE AIR HEATER OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43649	0346-WCBF-GFS-V-414 : GAS SUPPLY GAS FILTER BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43650	0346-WCBF-MPS-V-474 : BOILER 1 STEAM DRUM OUTLET MEDIUM PRESSURE OUTLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43651	0346-WCBF-GFS-V-421 : GAS FUEL SUPPLY REGULATOR PRESSURE GAGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43652	0346-WCBF-GFS-V-427 : GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43653	0346-WCBF-GFS-V-428 : GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43654	0346-WCBF-GFS-V-429 : GAS SUPPLY DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43655	0346-WCBF-GFS-V-430 : GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43656	0346-WCBF-GFS-V-431 : GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43657	0346-WCBF-GFS-V-412 : GAS FUEL SUPPLY REGULATOR PRESSURE GAGE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43658	0346-WCBF-MUS-V-331 : MAKE-UP WATER SYSTEM SOFTENER A DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43659	0346-WCBF-MPS-V-468 : BOILER 1 HEADER CONNECTION BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43660	0346-WCBF-MUS-V-316 : MAKE-UP WATER SYSTEM SOFTENER C NON POTABLE WATER INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43661	0346-WCBF-MUS-V-319 : MAKE-UP WATER SYSTEM SOFTENER C DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43662	0346-WCBF-MUS-V-320 : MAKE-UP WATER SYSTEM SOFTENER B BRINE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43663	0346-WCBF-MUS-V-322 : MAKE-UP WATER SYSTEM SOFTENER B NON POTABLE WATER INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43664	0346-WCBF-MUS-V-325 : MAKE-UP WATER SYSTEM SOFTENER B DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43665	0346-WCBF-MUS-V-313 : MAKE-UP WATER SYSTEM SOFTENER A DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43666	0346-WCBF-MUS-V-328 : MAKE-UP WATER SYSTEM SOFTENER A NON POTABLE WATER INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43667	0346-WCBF-MUS-V-312 : MAKE-UP WATER SYSTEM SOFTENER B DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43668	0346-WCBF-MUS-V-332 : MAKE-UP WATER SYSTEM BRINE DAY TANK	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43669	0346-WCBF-MUS-V-337 : TEMPORARY BOILER MAKE UP SYSTEM INLET VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43670	0346-WCBF-OIL-V-003 : OIL SUPPLY DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43671	0346-WCBF-OIL-V-004 : OIL SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43672	0346-WCBF-OIL-V-006 : OIL SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43673	0346-WCBF-OIL-V-203 : OIL SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43674	0346-WCBF-MUS-V-326 : MAKE-UP WATER SYSTEM SOFTENER A BRINE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43675	0346-WCBF-MPS-V-484 : WCBF MEDIUM PRESSURE STEAM SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43676	0346-WCBF-MPS-V-475 : BOILER 1 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43677	0346-WCBF-MPS-V-477 : BOILER 1 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43678	0346-WCBF-MPS-V-478 : BOILER 1 MEDIUM PRESSURE STEAM DRUM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43679	0346-WCBF-MPS-V-479 : WCBF BOILER 1 WEST MEDIUM PRESSURE STEAM	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43680	0346-WCBF-MPS-V-480 : WCBF PRESSURE GAGE AND CHECK ISOLATION	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43681	0346-WCBF-MPS-V-481 : WCBF MEDIUM PRESSURE STEAM DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43682	0346-WCBF-MUS-V-314 : MAKE-UP WATER SYSTEM SOFTENER C BRINE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43683	0346-WCBF-MPS-V-483 : WCBF MEDIUM PRESSURE STEAM SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43684	0346-WCBF-FW-V-306 : FEEDWATER PUMP 2 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43685	0346-WCBF-MPS-V-485 : WCBF MEDIUM PRESSURE STEAM HEADER	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43686	0346-WCBF-MPS-V-487 : WCBF MEDIUM PRESSURE STEAM REGULATOR	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43687	0346-WCBF-MPS-V-488 : WCBF MEDIUM PRESSURE STEAM ISOLATION VALVE TO DEAERATOR	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43688	0346-WCBF-MPS-V-491 : WCBF MEDIUM PRESSURE STEAM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43689	0346-WCBF-MPS-V-496 : WCBF MEDIUM PRESSURE STEAM OUTLET	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43690	0346-WCBF-MUS-V-311 : MAKE-UP WATER SYSTEM SOFTENER C DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43691	0346-WCBF-MPS-V-482 : WCBF MEDIUM PRESSURE STEAM PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43692	0346-WCBF-BLR1-V-109 : BOILER 1 FW FLOW TRANSMITTER ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43693	0346-WCBF-BLR1-V-318 : BOILER 1 WATER DRUM TO BDS ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43694	0346-WCBF-BLR1-V-021 : BOILER 1 STEAM DRUM PG ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43695	0346-WCBF-BLR1-V-022 : BOILER 1 STEAM DRUM GAUGE DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43696	0346-WCBF-BLR1-V-101 : BOILER 1 FEEDWATER ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43697	0346-WCBF-BLR1-V-102 : BOILER 1 ECONOMIZER INLET ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43698	0346-WCBF-BLR1-V-103 : BOILER 1 ECONOMIZER OUTLET ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43699	0346-WCBF-BLR1-V-016 : BOILER 1 STEAM TRAP ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43700	0346-WCBF-BLR1-V-107 : BOILER 1 WATER DRUM AOV BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43701	0346-WCBF-BLR1-V-015 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43702	0346-WCBF-BLR1-V-110 : BOILER 1 FW FLOW TRANSMITTER ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43703	0346-WCBF-BLR1-V-118 : BOILER 1 FEEDWATER SEWER DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43704	0346-WCBF-BLR1-V-119 : BOILER 1 FEEDWATER SEWER DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43705	0346-WCBF-BLR1-V-303 : BOILER 1 STEAM DRUM LT ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43706	0346-WCBF-BLR1-V-305 : BOILER 1 STEAM DRUM LT DRAIN TO BDS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43707	0346-WCBF-FW-V-312 : FEEDWATER PUMP 3 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43708	0346-WCBF-BLR1-V-104 : BOILER 1 ECONOMIZER BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43709	0346-WCBF-BLR1-V-006 : BOILER 1 ATOMIZED STEAM REGULATOR	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43710	0346-WCBF-AIR-V-1336 : INLET AIR ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43711	0346-WCBF-AIR-V-1337 : AIR FILTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43712	0346-WCBF-AIR-V-1338 : AIR PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43713	0346-WCBF-BDS-V-201 : TEMP BOILER BLOWDOWN SYSTEM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43714	0346-WCBF-BDS-V-300 : BLOWDOWN SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43715	0346-WCBF-BDS-V-401 : BOILER 1 WEST BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43716	0346-WCBF-BLR1-V-020 : BOILER 1 STEAM DRUM PG ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43717	0346-WCBF-BLR1-V-005 : BOILER 1 ATOMIZED STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43718	0346-WCBF-BLR2-V-005 : ATOMIZED STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43719	0346-WCBF-BLR1-V-007 : BOILER 1 ATOMIZED STEAM REGULATOR	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43720	0346-WCBF-BLR1-V-008 : BOILER 1 STEAM REGULATOR BYPASS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43721	0346-WCBF-BLR1-V-009 : BOILER 1 STEAM TRAP ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43722	0346-WCBF-BLR1-V-010 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43723	0346-WCBF-BLR1-V-013 : BOILER 1 STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43724	0346-WCBF-BLR1-V-014 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43725	0346-WCBF-BDS-V-402 : BOILER 2 EAST BLOWDOWN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43726	0346-WCBF-BLR2-V-316 : WATER DRUM TO BLOWDOWN HEAT RECOVERY FLASH TANK ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43727	0346-WCBF-BLR1-V-315 : BOILER 1 LEVEL SENSOR DRAIN TO BDS	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43728	0346-WCBF-BLR2-V-116 : ECONOMIZED FEEDWATER SEWER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43729	0346-WCBF-BLR2-V-118 : ECONOMIZED FEEDWATER SEWER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43730	0346-WCBF-BLR2-V-119 :	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43731	0346-WCBF-BLR2-V-303 : STEAM DRUM LEVEL TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43732	0346-WCBF-BLR2-V-304 : STEAM DRUM LEVEL TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43733	0346-WCBF-BLR2-V-110 : FEEDWATER FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43734	0346-WCBF-BLR2-V-306 : STEAM DRUM LEVEL TRANSMITTER DRAIN TO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43735	0346-WCBF-BLR2-V-109 : FEEDWATER FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43736	0346-WCBF-CON-V-437 : WCBF CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43737	0346-WCBF-CON-V-441 : WCBF CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43738	0346-WCBF-CON-V-443 : WCBF CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43739	0346-WCBF-CON-V-449 : CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43740	0346-WCBF-FW-V-300 : FEEDWATER PUMP 1 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43741	0346-WCBF-FW-V-304 : FEEDWATER PUMP 1 ISO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43742	0346-WCBF-BLR2-V-305 : STEAM DRUM LEVEL TRANSMITTER DRAIN TO	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43743	0346-WCBF-BLR2-V-016 : STEAM TRAP ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43744	0346-WCBF-BLR2-V-006 : ATOMIZED STEAM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43745	0346-WCBF-BLR2-V-007 : ATOMIZED STEAM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43746	0346-WCBF-BLR2-V-008 : STEAM REGULATOR BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43747	0346-WCBF-BLR2-V-009 : STEAM TRAP ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43748	0346-WCBF-BLR2-V-010 : STEAM TRAP ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43749	0346-WCBF-BLR2-V-013 : STEAM ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43750	0346-WCBF-BLR2-V-114 : FEEDWATER DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43751	0346-WCBF-BLR2-V-015 : STEAM DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43752	0346-WCBF-AIR-V-1335 : INLET AIR ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43753	0346-WCBF-BLR2-V-022 : STEAM DRUM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43754	0346-WCBF-BLR2-V-023 : STEAM DRUM PRESSURE GAUGE DRAIN VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43755	0346-WCBF-BLR2-V-102 :	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43756	0346-WCBF-BLR2-V-103 : TEMPORARY BOILER 2 FEEDWATER ECONOMIZER OUTLET ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43757	0346-WCBF-BLR2-V-104 : ECONOMIZER BYPASS VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43758	0346-WCBF-BLR2-V-105 : WATER DRUM AIR OPERATED VALVE ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43759	0346-WCBF-BLR2-V-014 : STEAM DRAIN	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43760	0346-WCBF-MPS-PG-401 : WCBF MEDIUM PRESSURE STEAM STEAM OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43761	0346-WCBF-GFS-PG-402 : GAS SUPPLY PRESSURE GAGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43762	0346-WCBF-BLR1-IGN-201 : BOILER 1 COMBUSTION CHAMBER IGNITOR	SERIALIZED	IGNITOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43763	0346-WCBF-GFS-PG-401 : GAS SUPPLY PRESSURE GAGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43764	0346-WCBF-BLR2-V-017 : STEAM DRAIN	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43765	0346-WCBF-BLR2-IGN-201 : WCBF BOILER 2 IGNITOR	SERIALIZED	IGNITOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43766	0346-WCBF-GFS-PG-404 : GAS SUPPLY PRESSURE GAGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43767	0346-WCBF-MPS-PG-402 : WCBF MEDIUM PRESSURE STEAM STEAM OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43768	0346-WCBF-MPS-PG-403 : WCBF MEDIUM PRESSURE STEAM STEAM OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43769	0346-WCBF-GFS-PG-403 : GAS SUPPLY PRESSURE GAGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43770	0346-WCBF-BLR2-V-021 : ATOMIZED STEAM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43771	0346-WCBF-BLR1-V-113 : BOILER 1 FW PG ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43772	0346-WCBF-BLR1-V-117 : BOILER 1 ECONOMIZED FW PG ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43773	0346-WCBF-BLR1-V-210 : BOILER 1 GAS SUPPLY PG ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43774	0346-WCBF-BLR1-V-211 : BOILER 1 GFS SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43775	0346-WCBF-BLR1-V-212 : BOILER 1 GFS SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43776	0346-WCBF-BLR1-V-214 : BOILER 1 GAS AT BURNER PG ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43777	0346-WCBF-BLR1-V-308 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43778	0346-WCBF-BLR1-V-309 : BOILER 1 STEAM PRESSURE GAUGE ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43779	0346-WCBF-BLR1-V-312 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43780	0346-WCBF-BLR1-V-321 : BOILER 1 ATOMIZED STEAM PRESSURE GAUGE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43781	0346-WCBF-BLR2-V-317 : WATER DRUM TO BLOWDOWN HEAT RECOVERY FLASH TANK ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43782	0346-WCBF-BLR2-V-012 : STEAM DRAIN	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43783	0346-WCBF-BLR1-V-011 : BOILER 1 STEAM PRESSURE GAUGE ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43784	0346-WCBF-BLR2-V-117 : ECONOMIZED FEEDWATER PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43785	0346-WCBF-BLR2-V-210 : GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43786	0346-WCBF-BLR2-V-211 : GAS FUEL SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43787	0346-WCBF-BLR2-V-212 : GAS FUEL SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43788	0346-WCBF-BLR2-V-214 : GAS PRESSURE AT BURNER PRESSURE GAUGE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43789	0346-WCBF-BLR2-V-308 : STEAM PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43790	0346-WCBF-BLR2-V-309 : STEAM DRAIN	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43791	0346-WCBF-BLR2-V-113 : FEEDWATER DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43792	0346-WCBF-BLR2-V-310 : STEAM DRAIN	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43793	0346-WCBF-BLR1-PG-206 : BOILER 1 GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43794	0346-WCBF-BLR2-V-011 : ATOMIZED STEAM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43795	0346-WCBF-MPS-MOV-455 : BOILER 2 EAST MEDIUM PRESSURE STEAM PLUG	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43796	0346-WCBF-GFS-HTR-404 : WCBF NE	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43797	0346-WCBF-GFS-HTR-403 : WCBF SE	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43798	0346-WCBF-GFS-HTR-402 : WCBF SW	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43799	0346-WCBF-GFS-HTR-401 : WCBF NW	SERIALIZED	HEATER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43800	0346-WCBF-MPS-MOV-475 : MEDIUM PRESSURE SYSTEM EAST AIR INTAKE MANUAL OPERATED VALVE	SERIALIZED	VALVE MANUAL OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43801	0346-WCBF-MPS-MOV-474 : MEDIUM PRESSURE SYSTEM WEST AIR INTAKE MANUAL OPERATED VALVE	SERIALIZED	VALVE MANUAL OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43802	0346-WCBF-BLR1-MOV-203 : BOILER 1 GAS SUPPLY MOV	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43803	0346-WCBF-BLR1-MOV-204 : BOILER 1 GAS SUPPLY MOV	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43804	0346-WCBF-BLR2-MOV-203 : GAS SUPPLY MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43805	0346-WCBF-BLR2-MOV-204 : GAS SUPPLY MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43806	0346-WCBF-BLR1-V-019 : BOILER 1 STEAM PRESSURE GAUGE ISO	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43807	0346-WCBF-MPS-MOV-405 : MEDIUM PRESSURE STEAM OUTLET VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43808	0346-WCBF-BLR1-V-012 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43809	0346-WCBF-MPS-MOV-473 : BOILER 1 EAST MEDIUM PRESSURE STEAM PLUG	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43810	0346-WCBF-OIL-MOV-002 : OIL SUPPLY	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43811	0346-WCBF-OIL-MOV-003 : OIL SUPPLY	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43812	0346-WCBF-OIL-MOV-004 : OIL SUPPLY ISOLATION MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43813	0346-WCBF-OIL-MOV-005 : OIL SUPPLY ISOLATION MOTOR OPERATED VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43814	0346-WCBF-FW-LT-300 : FEEDWATER DEAERATOR LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43815	0346-WCBF-BLR2-LT-301 : STEAM DRUM DIFFERENTIAL PRESSURE LEVEL	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43816	0346-WCBF-BLR1-LT-301 : BOILLER 1 LEVEL TRANSMITTER	SERIALIZED	TRANSMITTER LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43817	0346-WCBF-FW-HX-300 : FEEDWATER SAMPLE COOLER HEAT EXCHANGER	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43818	0346-WCBF-BDS-HX-300 : BOILER #1 AND #2 SAMPLE COOLER HEAT	SERIALIZED	HEAT EXCHANGER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43819	0346-WCBF-OIL-V-206 : OIL SUPPLY ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43820	0346-WCBF-MPS-MOV-404 : MEDIUM PRESSURE STEAM OUTLET VALVE	SERIALIZED	VALVE MOTOR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43821	0346-WCBF-OIL-V-201 : OIL SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43822	0346-WCBF-BLR1-V-017 : BOILER 1 STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43823	0346-WCBF-CON-V-431 : WCBF CONDENSATE SYSTEM PLUG VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43824	0346-WCBF-GFS-V-409 : GAS SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43825	0346-WCBF-BLR2-V-315 : STEAM DRUM SAMPLE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43826	0346-WCBF-GFS-V-432 : GAS SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43827	0346-WCBF-MPS-V-497 : WCBF MEDIUM PRESSURE STEAM OUTLET	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43828	0346-WCBF-OIL-V-001 : OIL SUPPLY PG	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43829	0346-WCBF-OIL-V-002 : OIL SUPPLY PG	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43830	0346-WCBF-OIL-V-005 : OIL SUPPLY PG	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43831	0346-WCBF-BLR1-V-018 : BOILER 1 STEAM OIL BLOWOUT ISO	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43832	0346-WCBF-OIL-V-008 : OIL AT BURNER	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43833	0346-WCBF-GFS-V-417 : GAS SUPPLY DRAIN VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43834	0346-WCBF-OIL-V-202 : OIL SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43835	0346-WCBF-OIL-V-204 : OIL SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43836	0346-WCBF-OIL-V-205 : OIL SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43837	0346-WCBF-OIL-V-207 : OIL PRESSURE AT BURNER PRESSURE GAUGE	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43838	0346-WCBF-BDS-FOV-300 : BLOWDOWN SYSTEM OVERFLOW TRAP	SERIALIZED	TRAP OVERFLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43839	0346-WCBF-MUS-LS-300 : MAKE-UP WATER SYSTEM BRINE TANK LEVEL	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43840	0346-WCBF-BLR2-LS-301 : STEAM DRUM LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43841	0346-WCBF-BLR1-LS-301 : BOILER 1 STEAM DRUM LEVEL SENSOR	SERIALIZED	SENSOR LEVEL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43842	0346-WCBF-BLR1-PG-205 : BOILER 1 GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43843	0346-WCBF-OIL-V-007 : OIL AT BURNER	SERIALIZED	VALVE NEEDLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43844	0346-WCBF-BLR1-V-317 : BOILER 1 STEAM DRUM SAMPLE ISO	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43845	0346-WCBF-BLR2-V-313 : LEVEL SENSOR DRAIN TO BLOWDOWN SYSTEM	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43846	0346-WCBF-BLR2-V-312 : WATER COLUMN DRAIN TO BLOWDOWN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43847	0346-WCBF-BLR2-V-311 : SIGHT GLASS DRAIN TO BLOWDOWN SYSTEM	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43848	0346-WCBF-BLR2-V-307 : STEAM DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43849	0346-WCBF-BLR2-V-112 : FEEDWATER FLOW TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43850	0346-WCBF-BLR2-V-111 : FEEDWATER FLOW TRANSMITTER DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43851	0346-WCBF-BLR2-V-108 : WATER DRUM FEEDWATER ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43852	0346-WCBF-BLR2-V-107 : WATER DRUM AIR OPERATED VALVE BYPASS VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43853	0346-WCBF-BLR2-V-106 : WATER DRUM AIR OPERATED VALVE ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43854	0346-WCBF-BLR2-V-019 : STEAM ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43855	0346-WCBF-BLR1-V-023 : BOILER 1 STEAM DRUM DRAIN VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43856	0346-WCBF-BLR1-V-314 : BOILER 1 WATER COLUMN DRAIN TO BDS	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43857	0346-WCBF-BLR1-V-313 : BOILER 1 SIGHT GLASS DRAIN TO BDS	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43858	0346-WCBF-BLR1-V-112 : BOILER 1 FW FLOW TRANSMITTER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43859	0346-WCBF-BLR1-V-215 : BOILER 1 IGNITOR GAS SUPPLY DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43860	0346-WCBF-BLR1-V-105 : BOILER 1 WATER DRUM AOV ISO	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43861	0346-WCBF-BLR1-V-106 : BOILER 1 WATER DRUM AOV ISO	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43862	0346-WCBF-BLR1-V-108 : BOILER 1 WATER DRUM FEEDWATER ISO	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43863	0346-WCBF-BLR1-V-116 : BOILER 1 FEEDWATER SEWER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43864	0346-WCBF-BLR1-V-216 : BOILER 1 IGNITOR GAS SUPPLY YS DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43865	0346-WCBF-BLR2-V-020 : STEAM OIL BLOWOUT ISOLATION VALVE	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43866	0346-WCBF-BLR1-V-111 : BOILER 1 FW FLOW TRANSMITTER DRAIN	SERIALIZED	VALVE GLOBE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43867	0346-WCBF-AIR-PG-079 : BOILER #1 AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43868	0346-WCBF-AIR-PG-300 : AIR SUPPLY REGULATOR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43869	0346-WCBF-BLR2-PS-301 : STEAM DRUM DRAIN PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43870	0346-WCBF-BLR1-PS-001 : BOILER 1 STEAM CLEANOUT PRESS. SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43871	0346-WCBF-BLR1-PS-201 : BOILER 1 GAS SUPPLY PG PRESS. SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43872	0346-WCBF-BLR1-PS-202 : BOILER 1 GAS SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43873	0346-WCBF-BLR1-PS-301 : BOILER 1 STEAM DRUM DRAIN PS	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43874	0346-WCBF-BLR1-PS-302 : BOILER 1 STEAM DRUM DRAIN PS	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43875	0346-WCBF-BLR2-PS-001 : STEAM CLEANOUT PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43876	0346-WCBF-OIL-PS-001 : OIL SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43877	0346-WCBF-BLR2-PS-202 : GAS SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43878	0346-WCBF-AIR-PG-80 : TEMP. BOILER SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43879	0346-WCBF-BLR2-PS-302 : STEAM DRUM DRAIN PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43880	0346-WCBF-FW-PS-300 : FEEDWATER PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43881	0346-WCBF-AIR-PG-078 : BOILER #10 SA FAN OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43882	0346-WCBF-OIL-PS-002 : OIL SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43883	0346-WCBF-OIL-PS-003 : OIL SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43884	0346-WCBF-OIL-PS-004 : OIL SUPPLY PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43885	0346-WCBF-BLR1-PG-001 : BOILER 1 STEAM CLEANOUT PG	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43886	0346-WCBF-BLR2-PS-201 : GAS SUPPLY PRESSURE GAUGE PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43887	0346-WCBF-FW-RV-300 : FEEDWATER SYSTEM DEAERATOR TANK RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43888	0346-WCBF-BLR1-RV-003 : BOILER 1 STEAM CLEANOUT RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43889	0346-WCBF-BLR1-RV-002 : BOILER 1 STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43890	0346-WCBF-BLR1-RV-004 : BOILER 1 STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43891	0346-WCBF-BLR2-RV-001 : STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43892	0346-WCBF-BLR2-RV-002 : STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43893	0346-WCBF-BLR2-RV-003 : STEAM CLEANOUT RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43894	0346-WCBF-BLR2-RV-004 : BOILER 2 EAST STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43895	0346-WCBF-FW-PG-303 : FEEDWATER PUMP 3 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43896	0346-WCBF-BLR2-PT-401 : AIR INTAKE PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43897	0346-WCBF-BLR1-RV-001 : BOILER 1 STEAM DRUM RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43898	0346-WCBF-AIR-PG-077 : BOILER #1 AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43899	0346-WCBF-FW-RV-301 : FEEDWATER SYSTEM DEAERATOR TANK RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43900	0346-WCBF-FW-RV-302 : FEEDWATER SYSTEM DEAERATOR TANK RELIEF	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43901	0346-WCBF-GFS-RV-401 : GAS SUPPLY PRESSURE RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43902	0346-WCBF-GFS-RV-402 : GAS SUPPLY PRESSURE RELIEF VALVE	SERIALIZED	VALVE RELIEF	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43903	0346-WCBF-BLR1-PT-301 : BOILER 1 STEAM DRUM PT	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43904	0346-WCBF-BLR1-PT-401 : BOILER 1 AIR INTAKE PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43905	0346-WCBF-BLR2-PT-301 : STEAM DRUM PRESSURE TRANSMITTER	SERIALIZED	TRANSMITTER PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43906	0346-WCBF-AIR-PG-076 : BOILER #1 AIR PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43907	0346-WCBF-AIR-PS-009 : TRANSPORT VESSEL AIR INLET PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43908	0346-WCBF-OIL-PG-006 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43909	0346-WCBF-MUS-PG-307 : MAKE-UP WATER SYSTEM SOFTENER A BRINE INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43910	0346-WCBF-GFS-SV-410 : GAS FUEL SUPPLY SLAM SHUT VALVE	SERIALIZED	VALVE SAFETY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43911	0346-WCBF-GFS-PRV-411 : WCBF GAS FUEL SYSTEM PRESSURE REDUCING VALVE ON BOILER 2 SIDE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43912	0346-WCBF-GFS-PRV-412 : TEMPORARY BOILER GAS FUEL SYSTEM PRESSURE	SERIALIZED	VALVE PRESSURE REDUCING	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43913	0346-WCBF-OIL-PG-009 : OIL PRESSURE AT BURNER	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43914	0346-WCBF-AIR-REG-117 : IGNITOR AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43915	0346-WCBF-OIL-PG-007 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43916	0346-WCBF-AIR-REG-300 : AIR SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43917	0346-WCBF-OIL-PG-005 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43918	0346-WCBF-OIL-PG-004 : OIL PRESSURE AT BURNER	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43919	0346-WCBF-FW-PG-301 : FEEDWATER PUMP 1 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43920	0346-WCBF-OIL-PG-002 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43921	0346-WCBF-AIR-PS-008 : TRANSPORT VESSEL AIR INLET PRESSURE SWITCH	SERIALIZED	SWITCH PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43922	0346-WCBF-MUS-PG-308 : MAKE-UP WATER SYSTEM SOFTENER A DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43923	0346-WCBF-OIL-PG-008 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43924	0346-WCBF-GFS-REG-401 : GAS SUPPLY INLET REGULATOR FOR BOILER 1	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43925	0346-WCBF-OIL-REG-002 : OIL SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43926	0346-WCBF-OIL-REG-001 : OIL SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43927	0346-WCBF-MPS-REG-401 : WCBF MEDIUM PRESSURE STEAM REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43928	0346-WCBF-GFS-REG-405 : GAS SUPPLY INLET REGULATOR FOR TEMP. BOILER	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43929	0346-WCBF-GFS-REG-404 : GAS SUPPLY OUTLET REGULATOR TO WCBF HEATERS	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43930	0346-WCBF-GFS-SV-411 : GAS FUEL SUPPLY SLAM SHUT VALVE	SERIALIZED	VALVE SAFETY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43931	0346-WCBF-GFS-REG-402 : GAS SUPPLY INLET REGULATOR FOR BOILER 2	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43932	0346-WCBF-OIL-PG-001 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43933	0346-WCBF-BLR2-REG-203 : IGNITOR GAS SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43934	0346-WCBF-BLR2-REG-101 : WATER DRUM AIR OPERATED VALVE	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43935	0346-WCBF-BLR2-REG-001 : STEAM DRUM STEAM OUTLET REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43936	0346-WCBF-BLR1-REG-203 : BOILER 1 IGNITOR GAS SUPPLY REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43937	0346-WCBF-BLR1-REG-101 : BOILER 1 WATER DRUM AOV REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43938	0346-WCBF-BLR1-REG-001 : BOILER 1 STEAM CLEANOUT REGULATOR	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43939	0346-WCBF-GFS-REG-403 : GAS SUPPLY OUTLET REGULATOR TO WCBF HEATERS	SERIALIZED	REGULATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43940	0346-WCBF-BLR2-PG-101 : FEEDWATER AT WATER DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43941	0346-WCBF-MUS-PG-306 : MAKE-UP WATER SYSTEM SOFTENER B DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43942	0346-WCBF-BLR1-PG-201 : BOILER 1 GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43943	0346-WCBF-OIL-PG-003 : OIL SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43944	0346-WCBF-BLR2-PG-206 : IGNITOR GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43945	0346-WCBF-BLR2-PG-204 : GAS SUPPLY AT BURNER PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43946	0346-WCBF-BLR1-PG-204 : BOILER 1 GAS SUPPLY AT BURNER PG	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43947	0346-WCBF-BLR2-PG-203 : GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43948	0346-WCBF-BLR1-PG-101 : BOILER 1 FEEDWATER AT ECONOMIZER PG	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43949	0346-WCBF-BLR2-PG-004 : STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43950	0346-WCBF-BLR2-PG-003 : ATOMIZED STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43951	0346-WCBF-BLR2-PG-002 : STEAM OIL CLEANOUT PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43952	0346-WCBF-BLR2-PG-001 : ATOMIZED STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43953	0346-WCBF-BLR1-PG-302 : BOILER 1 STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43954	0346-WCBF-BLR1-PG-301 : BOILER 1 STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43955	0346-WCBF-BLR1-PG-203 : BOILER 1 GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43956	0346-WCBF-FW-PG-302 : FEEDWATER PUMP 2 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43957	0346-WCBF-MUS-PG-305 : MAKE-UP WATER SYSTEM SOFTENER B BRINE INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43958	0346-WCBF-MUS-PG-304 : MAKE-UP WATER SYSTEM SOFTENER C DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43959	0346-WCBF-MUS-PG-303 : MAKE-UP WATER SYSTEM SOFTENER C BRINE INLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43960	0346-WCBF-MUS-PG-302 : MAKE-UP WATER SYSTEM BRINE PUMP 2 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43961	0346-WCBF-MUS-PG-301 : MAKE-UP WATER SYSTEM BRINE PUMP 1 OUTLET PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43962	0346-WCBF-MUS-PG-300 : MAKE-UP WATER SYSTEM BRINE COMMON DISCHARGE PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43963	0346-WCBF-BLR2-PG-301 : STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43964	0346-WCBF-GFS-PG-405 : GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43965	0346-WCBF-BLR2-PG-302 : STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43966	0346-WCBF-FW-PG-300 : FEEDWATER SYSTEM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43967	0346-WCBF-CFS-PG-302 : CHEMICAL FEED SYSTEM PUMP #302 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43968	0346-WCBF-BLR1-PG-002 : BOILER 1 ATOMIZED STEAM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43969	0346-WCBF-CFS-PG-301 : CHEMICAL FEED SYSTEM PUMP #301 PRESSURE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43970	0346-WCBF-BLR1-PG-003 : BOILER 1 STEAM DRUM PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43971	0346-WCBF-GFS-PG-406 : GAS SUPPLY PRESSURE GAUGE	SERIALIZED	GAUGE PRESSURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43972	0346-WCBF-CFS-V-313 : CHEMICAL FEED SYSTEM TANK 303 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43973	0346-WCBF-CFS-V-302 : CHEMICAL FEED SYSTEM PUMP #301 INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43974	0346-WCBF-CFS-V-303 : CHEMICAL FEED SYSTEM PUMP #301 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43975	0346-WCBF-CFS-V-304 : CHEMICAL FEED SYSTEM PRESSURE GAUGE #301 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43976	0346-WCBF-CFS-V-305 : CHEMICAL FEED SYSTEM DEAERATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43977	0346-WCBF-CFS-V-306 : CHEMICAL FEED SYSTEM TANK 302 LOADING STATION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43978	0346-WCBF-CFS-V-307 : CHEMICAL FEED SYSTEM TANK 302 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43979	0346-WCBF-CFS-V-308 : CHEMICAL FEED SYSTEM PUMP #302 INLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43980	0346-WCBF-CFS-V-309 : CHEMICAL FEED SYSTEM PUMP #302 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43981	0346-WCBF-CFS-V-310 : CHEMICAL FEED SYSTEM PRESSURE GAUGE #302 ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43982	0346-WCBF-CFS-V-312 : CHEMICAL FEED SYSTEM TANK 303 LOADING STATION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43983	0346-WCBF-BLR1-V-217 : BOILER 1 IGNITOR GAS SUPPLY DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43984	0346-WCBF-CFS-V-314 : CHEMICAL FEED SYSTEM PUMP INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43985	0346-WCBF-CON-V-427 : WCBF CONDENSATE WYE STRAINER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43986	0346-WCBF-CFS-V-311 : CHEMICAL FEED SYSTEM DEAERATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43987	0346-WCBF-BLR1-V-319 : BOILER 1 WATER DRUM TO BDS ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43988	0346-WCBF-CON-V-428 : WCBF CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43989	0346-WCBF-CFS-V-300 : CHEMICAL FEED SYSTEM TANK 301 LOADING STATION ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43990	0346-WCBF-BLR2-V-217 : GAS SUPPLY PRESSURE GAUGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43991	0346-WCBF-BLR2-V-216 : IGNITOR GAS SUPPLY WYE STRAINER DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43992	0346-WCBF-BLR2-V-213 : GAS PRESSURE AT BURNER PRESSURE GAUGE DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43993	0346-WCBF-BLR2-V-209 : GAS FUEL SYSTEM SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43994	0346-WCBF-BLR2-V-203 : IGNITOR GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43995	0346-WCBF-BLR2-V-202 : GAS FUEL SYSTEM SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
43996	0346-WCBF-BLR2-V-018 : ATOMIZED STEAM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43997	0346-WCBF-BLR1-V-203 : BOILER 1 IGNITOR GAS SUPPLY ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43998	0346-WCBF-BLR1-V-320 : BOILER 1 STEAM PRESSURE GAUGE DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
43999	0346-WCBF-AIR-V-1327 : INLET AIR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44000	0346-WCBF-BLR1-V-311 : BOILER 1 STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44001	0346-WCBF-BLR1-V-310 : BOILER 1 STEAM PRESSURE GAUGE ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44002	0346-WCBF-BLR1-V-213 : BOILER 1 GAS AT BURNER PG DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44003	0346-WCBF-BLR1-V-202 : BOILER 1 GFS SUPPLY ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44004	0346-WCBF-BDS-V-302 : BLOWDOWN SYSTEM SAMPLE COOLER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44005	0346-WCBF-BDS-V-301 : BLOWDOWN SYSTEM SAMPLE COOLER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44006	0346-WCBF-BDS-V-001 : BLOWDOWN SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44007	0346-WCBF-AIR-V-301 : AIR SYSTEM REGULATOR ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44008	0346-WCBF-AIR-V-300 : AIR OPERATED VALVE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44009	0346-WCBF-AIR-V-1328 : AIR SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44010	0346-WCBF-BLR2-V-002 : BOILER 2 ISOLATION VALVE TO BDS	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44011	0346-WCBF-MPS-V-492 : WCBF MEDIUM PRESSURE STEAM TO CONDENSATE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44012	0346-WCBF-MPS-V-415 : MEDIUM PRESSURE STEAM INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44013	0346-WCBF-MUS-V-305 : MAKE-UP WATER SYSTEM BRINE PUMP 1 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44014	0346-WCBF-MUS-V-304 : MAKE-UP WATER SYSTEM BRINE TANK PUMP 2	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44015	0346-WCBF-MUS-V-303 : MAKE-UP WATER SYSTEM BRINE TANK PUMP 1	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44016	0346-WCBF-MUS-V-302 : MAKE-UP WATER SYSTEM BRINE TANK AUXILARY	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44017	0346-WCBF-MUS-V-301 : MAKE-UP WATER SYSTEM BRINE TANK MAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44018	0346-WCBF-MUS-V-300 : MAKE-UP WATER SYSTEM BRINE TANK SALT FILL WATER LINE VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44019	0346-WCBF-MPS-V-495 : WCBF MEDIUM PRESSURE STEAM SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44020	0346-WCBF-MUS-V-307 : MAKE-UP WATER SYSTEM BRINE PUMP	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44021	0346-WCBF-MPS-V-493 : WCBF MEDIUM PRESSURE STEAM DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44022	0346-WCBF-MUS-V-308 : MAKE-UP WATER SYSTEM BRINE DISCHARGE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44023	0346-WCBF-MPS-V-489 : WCBF MEDIUM PRESSURE STEAM PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44024	0346-WCBF-MPS-V-486 : WCBF MEDIUM PRESSURE STEAM DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44025	0346-WCBF-MPS-V-476 : BOILER 1 MEDIUM PRESSURE STEAM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44026	0346-WCBF-MPS-V-472 : WCBF BOILER 1 MEDIUM PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44027	0346-WCBF-MPS-V-471 : WCBF BOILER 1 MEDIUM PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44028	0346-WCBF-MPS-V-467 : WCBF MEDIUM PRESSURE STEAM PRESSURE TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44029	0346-WCBF-MPS-V-464 : BOILER 1 MEDIUM PRESSURE STEAM DRAIN OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44030	0346-WCBF-MPS-V-459 : WCBF BOILER 2 MEDIUM PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44031	0346-WCBF-NPW-V-308 : NON POTABLE TO MAKE-UP WATER SYSTEM INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44032	0346-WCBF-MPS-V-494 : WCBF MEDIUM PRESSURE STEAM SYSTEM	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44033	0346-WCBF-MUS-V-329 : MAKE-UP WATER SYSTEM AIR FILTER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44034	0346-WCBF-NPW-V-309 : NON POTABLE WATER TO STEAM SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44035	0346-WCBF-CFS-V-301 : CHEMICAL FEED SYSTEM TANK 301 OUTLET ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44036	0346-WCBF-NPW-V-307 : NON POTABLE WATER SYSTEM HOSE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44037	0346-WCBF-NPW-V-306 : NON POTABLE WATER SYSTEM CONTROL INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44038	0346-WCBF-NPW-V-305 : NON POTABLE WATER TO FEEDWATER SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44039	0346-WCBF-NPW-V-304 : NON POTABLE WATER TO BLOWDOWN SAMPLE COOLER ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44040	0346-WCBF-NPW-V-303 : NON POTABLE WATER SYSTEM SAMPLE COOLERS ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44041	0346-WCBF-NPW-V-302 : NON POTABLE WATER SYSTEM MAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44042	0346-WCBF-MUS-V-306 : MAKE-UP WATER SYSTEM BRINE PUMP 2 OUTLET	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44043	0346-WCBF-MUS-V-330 : MAKE-UP WATER SYSTEM SOFTENER A	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44044	0346-WCBF-MPS-V-414 : MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44045	0346-WCBF-MUS-V-327 : MAKE-UP WATER SYSTEM SOFTENER A BRINE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44046	0346-WCBF-MUS-V-324 : MAKE-UP WATER SYSTEM SOFTENER B	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44047	0346-WCBF-MUS-V-323 : MAKE-UP WATER SYSTEM AIR FILTER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44048	0346-WCBF-MUS-V-321 : MAKE-UP WATER SYSTEM SOFTENER B BRINE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44049	0346-WCBF-MUS-V-318 : MAKE-UP WATER SYSTEM SOFTENER C	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44050	0346-WCBF-MUS-V-317 : MAKE-UP WATER SYSTEM AIR FILTER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44051	0346-WCBF-MUS-V-315 : MAKE-UP WATER SYSTEM SOFTENER C BRINE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44052	0346-WCBF-MUS-V-310 : MAKE-UP WATER SYSTEM BRINE DAY TANK DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44053	0346-WCBF-MUS-V-309 : MAKE-UP WATER SYSTEM BRINE DAY TANK INLET	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44054	0346-WCBF-NPW-V-301 : NON POTABLE WATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44055	0346-WCBF-CON-V-447 : BOILER 1 CONDENSATE OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44056	0346-WCBF-MPS-V-454 : BOILER 2 MEDIUM PRESSURE STEAM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44057	0346-WCBF-FW-V-309 : FW PUMP 2 PG	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44058	0346-WCBF-FW-V-308 : PUMP 2 METERING VALVE ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44059	0346-WCBF-FW-V-307 : FW PUMP 2 METERING VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44060	0346-WCBF-FW-V-305 : FEEDWATER SYSTEM SAMPLE COOLER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44061	0346-WCBF-FW-V-303 : FW PUMP 1 PG	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44062	0346-WCBF-FW-V-302 : PUMP 1 METERING VALVE ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44063	0346-WCBF-FW-V-301 : FW PUMP 1 METERING VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44064	0346-WCBF-FW-V-313 : FW PUMP 3 METERING VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44065	0346-WCBF-CON-V-448 : CONDENSATE SYSTEM BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44066	0346-WCBF-FW-V-314 : PUMP 3 METERING VALVE ISO	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44067	0346-WCBF-CON-V-446 : BOILER 1 AIR INTAKE CONDENSATE OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44068	0346-WCBF-CON-V-445 : CONDENSATE SYSTEM DRAIN VALVE OFF RETURN LINE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44069	0346-WCBF-CON-V-444 : CONDENSATE RETURN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44070	0346-WCBF-CON-V-442 : WCBF WEST CONDENSATE WYE STRAINER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44071	0346-WCBF-CON-V-436 : WCBF CONDENSATE SYSTEM OUTLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44072	0346-WCBF-CON-V-435 : WCBF EAST AIR INTAKE CONDENSATE RETURN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44073	0346-WCBF-CON-V-434 : WCBF CONDENSATE SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44074	0346-WCBF-CON-V-433 : WCBF CONDENSATE WYE STRAINER DRAIN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44075	0346-WCBF-CON-V-430 : WCBF EAST AIR INTAKE CONDENSATE RETURN	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44076	0346-WCBF-CON-V-450 : CONDENSATE SYSTEM OUTLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44077	0346-WCBF-GFS-V-425 : WCBF GAS FUEL PRESSURE GAGE VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44078	0346-WCBF-MPS-V-412 : MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44079	0346-WCBF-MPS-V-411 : MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44080	0346-WCBF-MPS-V-410 : MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44081	0346-WCBF-MPS-V-409 : MEDIUM PRESSURE STEAM ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44082	0346-WCBF-MPS-V-408 : MEDIUM PRESSURE STEAM BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44083	0346-WCBF-MPS-V-407 : MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44084	0346-WCBF-MPS-V-406 : MEDIUM PRESSURE STEAM INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44085	0346-WCBF-MPS-V-403 : MEDIUM PRESSURE STEAM INLET VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44086	0346-WCBF-FW-V-311 : FEEDWATER SYSTEM FLOW TRANSMITTER	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44087	0346-WCBF-MPS-V-401 : MEDIUM PRESSURE STEAM BYPASS VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44088	0346-WCBF-CON-V-429 : WCBF BOILER SUPPLIED CONDENSATE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44089	0346-WCBF-GFS-V-423 : GAS SUPPLY DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44090	0346-WCBF-GFS-V-422 : GAS SUPPLY PRESSURE GAGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44091	0346-WCBF-GFS-V-419 : WEST BOILER 1 GAS SUPPLY INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44092	0346-WCBF-GFS-V-418 : EAST BOILER 2 GAS SUPPLY INLET ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44093	0346-WCBF-GFS-V-415 : GAS SUPPLY PRESSURE GAGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44094	0346-WCBF-GFS-V-413 : GAS SUPPLY PRESSURE GAGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44095	0346-WCBF-FW-V-324 : FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44096	0346-WCBF-FW-V-322 : FEEDWATER SYSTEM PRESSURE GAUGE ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44097	0346-WCBF-FW-V-321 : FEEDWATER SYSTEM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44098	0346-WCBF-FW-V-315 : FW PUMP 3 PG	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44099	0346-WCBF-MPS-V-402 : MEDIUM PRESSURE STEAM DRAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44100	0346-WCBF-BLR2-V-201 :	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44101	0346-WCBF-GFS-V-405 : GAS FUEL SUPPLY CHECK INLET VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44102	0346-WCBF-CON-CHK-405 : CONDENSATE SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44103	0346-WCBF-GFS-V-406 : WCBF HEATER GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44104	0346-WCBF-MUS-CV-318 : MAKE-UP WATER SYSTEM BRINE DAY TANK INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44105	0346-WCBF-NPW-CV-300 : NON POTABLE WATER SYSTEM DRAIN	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44106	0346-WCBF-NPW-CV-301 : NON POTABLE WATER SYSTEM BRINE TANK FILL CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44107	0346-WCBF-OIL-CV-001 : OIL SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44108	0346-WCBF-OIL-CV-002 : OIL SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44109	0346-WCBF-CON-CHK-402 : WCBF CONDENSATE SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44110	0346-WCBF-FW-V-318 :	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44111	0346-WCBF-CON-CHK-404 : WCBF BLR1 WEST AIR INTAKE CONDENSATE CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44112	0346-WCBF-MUS-CV-316 : MAKE-UP WATER SYSTEM SOFTENER A BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44113	0346-WCBF-FW-CHK-301 : FW PUMP 1 CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44114	0346-WCBF-FW-CHK-302 : FW PUMP 2 CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44115	0346-WCBF-FW-V-317 :	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44116	0346-WCBF-GFS-V-401 : WCBF HEATER GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44117	0346-WCBF-GFS-V-402 : WCBF HEATER GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44118	0346-WCBF-MUS-CV-317 : MAKE-UP WATER SYSTEM SOFTENER A SOFT WATER OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44119	0346-WCBF-GFS-V-403 : GAS FUEL SUPPLY CHECK OUTLET VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44120	0346-WCBF-CON-CHK-403 : WCBF CONDENSATE SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44121	0346-WCBF-FW-CHK-303 : FW PUMP 3 CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44122	0346-WCBF-PWS-V-301 : POTABLE WATER SYSTEM SHOWER ISOLATION	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44123	0346-WCBF-PWS-V-302 : POTABLE WATER SYSTEM SINK ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44124	0346-WCBF-CON-TRAP-002 : WCBF CONDENSATE TRAP FROM EAST AIR	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44125	0346-WCBF-CON-TRAP-001 : WCBF CONDENSATE TRAP FROM WEST AIR	SERIALIZED	TRAP CONDENSATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44126	0346-WCBF-PWS-V-300 : POTABLE WATER SYSTEM MAIN VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44127	0346-WCBF-BLR2-CHK-002 : STEAM CLEANOUT DRAIN CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44128	0346-WCBF-MPS-CHK-400 : WCBF MEDIUM PRESSURE STEAM CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44129	0346-WCBF-MUS-CV-315 : MAKE-UP WATER SYSTEM SOFTENER A BACKWASH INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44130	0346-WCBF-GFS-CHK-418 : GAS SUPPLY INLET CHECK VALVE FOR BOILER 2	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44131	0346-WCBF-GFS-CHK-404 : GAS FUEL SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44132	0346-WCBF-GFS-CHK-419 : GAS SUPPLY INLET CHECK VALVE FOR BOILER 1	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44133	0346-WCBF-AIR-CC-007 : BOILER #1 MAIN BOILER CONTROL PANEL CABINET	SERIALIZED	CABINET COOLER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44134	0346-WCBF-GFS-V-407 : WCBF HEATER GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44135	0346-WCBF-NPW-V-300 : NON POTABLE TO MAKE-UP WATER VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44136	0346-WCBF-MUS-V-336 : MAKE-UP WATER SYSTEM AIR OPERATED VALVE OUTLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44137	0346-WCBF-MUS-V-335 : MAKE-UP WATER SYSTEM AIR OPERATED VALVE INLET ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44138	0346-WCBF-MUS-V-334 : MAKE-UP WATER SYSTEM SOFTENER DISCHARGE ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44139	0346-WCBF-MUS-V-333 : MAKE-UP WATER SYSTEM SOFTENER BYPASS	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44140	0346-WCBF-MPS-V-490 : WCBF MEDIUM PRESSURE STEAM BYPASS	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44141	0346-WCBF-MPS-V-448 : BOILER 2 EAST AIR INTAKE STEAM PREHEAT ISOLATION	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44142	0346-WCBF-GFS-V-426 : GAS SUPPLY ISOLATION VALVE TO WCBF HEATERS	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44143	0346-WCBF-GFS-V-424 : BOILER 1 WEST GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44144	0346-WCBF-GFS-V-408 : GAS SUPPLY ISOLATION VALVE TO WCBF HEATERS	SERIALIZED	VALVE BUTTERFLY	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44145	0346-WCBF-AIR-CC-008 : BOILER #1 MAIN BOILER CONTROL PANEL CABINET	SERIALIZED	CABINET COOLER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44146	0346-WCBF-OIL-P-CNT-004 : MAIN OIL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44147	0346-WCBF-BLR1-CHK-101 : BOILER 1 H2O DRUM FW SUPPLY CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44148	0346-WCBF-BLR1-CHK-003 : BOILER 1 STEAM CLEANOUT CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44149	0346-WCBF-BLR1-CHK-002 : BOILER 1 STEAM DRAIN CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44150	0346-WCBF-BLR1-CHK-001 : BOILER 1 STEAM CLEANOUT CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44151	0346-WCBF-AIR-CHK-401 : TEMPORARY BOILER AIR SUPPLY CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44152	0346-WCBF-BLR1-P-CNT-401 : BOILER 1 AIR INTAKE FAN	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44153	0346-WCBF-CFS-P-CNT-301 : CHEMICAL FEED SYSTEM CENTRIFUGAL PUMP FOR	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44154	0346-WCBF-BLR2-CHK-001 : STEAM CLEANOUT CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44155	0346-WCBF-FW-P-CNT-303 : FEEDWATER SYSTEM CENTRIFUGAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44156	0346-WCBF-CFS-P-CNT-302 : CHEMICAL FEED SYSTEM CENTRIFUGAL PUMP FOR	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44157	0346-WCBF-BLR2-CU-101 : WATER DRUM FEEDWATER AIR OPERATED VALVE CONTROL UNIT	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44158	0346-WCBF-BLR1-CU-101 : BOILER 1 WATER DRUM FW AOV CU	SERIALIZED	CONTROL UNIT	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44159	0346-WCBF-OIL-P-CNT-001 : MAIN OIL SUPPLY PUMP	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44160	0346-WCBF-MUS-P-CNT-302 : MAKE-UP WATER SYSTEM BRINE TANK	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44161	0346-WCBF-MUS-CV-314 : MAKE-UP WATER SYSTEM SOFTENER A NON POTABLE WATER INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44162	0346-WCBF-MUS-P-CNT-301 : MAKE-UP WATER SYSTEM BRINE TANK	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44163	0346-WCBF-BLR2-CHK-101 : WATER DRUM FEEDWATER SUPPLY CHECK	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44164	0346-WCBF-FW-P-CNT-301 : FEEDWATER SYSTEM CENTRIFUGAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44165	0346-WCBF-MUS-CV-308 : MAKE-UP WATER SYSTEM SOFTENER B NON POTABLE WATER INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44166	0346-WCBF-MUS-CV-313 : MAKE-UP WATER SYSTEM SOFTENER A BRINE INTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44167	0346-WCBF-MUS-CV-312 : MAKE-UP WATER SYSTEM SOFTENER A BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44168	0346-WCBF-MUS-CV-311 : MAKE-UP WATER SYSTEM SOFTENER B SOFT WATER OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44169	0346-WCBF-FW-P-CNT-302 : FEEDWATER SYSTEM CENTRIFUGAL	SERIALIZED	PUMP CENTRIFUGAL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44170	0346-WCBF-MUS-CV-309 : MAKE-UP WATER SYSTEM SOFTENER B BACKWASH INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44171	0346-WCBF-BLR2-CHK-003 : STEAM CLEANOUT CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44172	0346-WCBF-MUS-CV-307 : MAKE-UP WATER SYSTEM SOFTENER B BRINE INTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44173	0346-WCBF-MUS-CV-306 : MAKE-UP WATER SYSTEM SOFTENER B BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44174	0346-WCBF-MUS-CV-305 : MAKE-UP WATER SYSTEM SOFTENER C SOFT WATER OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44175	0346-WCBF-MUS-CV-302 : MAKE-UP WATER SYSTEM SOFTENER C NON POTABLE WATER INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44176	0346-WCBF-MUS-CV-310 : MAKE-UP WATER SYSTEM SOFTENER B BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44177	0346-WCBF-MUS-CV-304 : MAKE-UP WATER SYSTEM SOFTENER C BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44178	0346-WCBF-CON-CHK-401 : WCBF CONDENSATE SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44179	0346-WCBF-BLR1-CV-205 : BOILER 1 GAS SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44180	0346-WCBF-BLR2-CV-205 : GAS SUPPLY CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44181	0346-WCBF-MUS-CV-301 : MAKE-UP WATER SYSTEM SOFTENER C BRINE INTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44182	0346-WCBF-CFS-CHK-302 : CHEMICAL FEED SYSTEM CHECK VALVE	SERIALIZED	VALVE CHECK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44183	0346-WCBF-MUS-CV-303 : MAKE-UP WATER SYSTEM SOFTENER C BACKWASH INLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44184	0346-WCBF-MUS-CV-300 : MAKE-UP WATER SYSTEM SOFTENER C BACKWASH OUTLET CONTROL VALVE	SERIALIZED	VALVE CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44185	0346-WCBF-BLR1-SOV-203 : BOILER 1 IGNITOR GAS SUPPLY BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44186	0346-WCBF-BLR2-SOV-204 : IGNITOR GAS SUPPLY VENT BLEED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44187	0346-WCBF-BLR2-SOV-203 : IGNITOR GAS SUPPLY BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44188	0346-WCBF-BLR2-SOV-202 : IGNITOR GAS SUPPLY BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44189	0346-WCBF-BLR2-SOV-201 : GAS SUPPLY BLEED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44190	0346-WCBF-BLR2-SOV-001 : STEAM CLEANOUT SOLENOID VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44191	0346-WCBF-BLR1-SOV-204 : BOILER 1 IGNITOR GAS SUPPLY VENT BLEED	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44192	0346-WCBF-BLR2-SG-602 : WATER TO STEAM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44193	0346-WCBF-BLR2-SG-601 : WATER TO STEAM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44194	0346-WCBF-BLR2-SG-301 : STEAM DRUM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44195	0346-WCBF-BLR1-SG-602 : BOILER 1 WATER TO STEAM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44196	0346-WCBF-BLR1-SG-301 : BOILER 1 STEAM DRUM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44197	0346-WCBF-BLR1-SOV-202 : BOILER 1 IGNITOR GAS SUPPLY BLOCK VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44198	0346-WCBF-BLR1-SOV-201 : BOILER 1 GAS SUPPLY BLEED VALVE	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44199	0346-WCBF-BLR1-SOV-001 : STEAM CLEANOUT SOV	SERIALIZED	VALVE SOLENOID	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44200	0346-WCBF-BLR2-TG-601 : WATER TO STEAM TEMPERATURE GAUGE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44201	0346-WCBF-BLR1-SG-601 : BOILER 1 WATER TO STEAM SIGHT GLASS	SERIALIZED	SIGHT GLASS	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44202	0346-WCBF-BLR1-TG-101 : BOILER 1 FW PRE-ECONOMIZER TG	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44203	0346-WCBF-BDS-TT-001 : BLOWDOWN SYSTEM DRAIN TEMPERATURE	SERIALIZED	TRANSMITTER TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44204	0346-WCBF-PWS-SHW-300 : POTABLE WATER SYSTEM SHOWER	SERIALIZED	SHOWER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44205	0346-WCBF-FW-TG-300 : FEEDWATER SYSTEM DEARATOR TANK	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44206	0346-WCBF-PWS-SNK-300 : POTABLE WATER SYSTEM SINK	SERIALIZED	SINK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44207	0346-WCBF-BLR2-TG-101 : FEEDWATER PRE-ECONOMIZER TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44208	0346-WCBF-BLR2-TG-102 : FEEDWATER POST-ECONOMIZER TEMPERATURE	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44209	0346-WCBF-BLR1-TG-102 : BOILER 1 FW POST-ECONOMIZER TG	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44210	0346-WCBF-BDS-SEP-001 : BLOWDOWN SYSTEM SEPARATOR TANK	SERIALIZED	TANK SEPARATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44211	0346-WCBF-BDS-TG-001 :	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44212	0346-WCBF-CFS-TNK-301 : CHEMICAL FEED SYSTEM TANK 301	SERIALIZED	CHEMICAL FEED SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44213	0346-WCBF-CFS-TNK-302 : CHEMICAL FEED SYSTEM TANK 302	SERIALIZED	CHEMICAL FEED SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44214	0346-WCBF-CFS-TNK-303 : CHEMICAL FEED SYSTEM TANK 303	SERIALIZED	CHEMICAL FEED SYSTEM	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44215	0346-WCBF-MUS-TNK-300 : MAKE-UP WATER SYSTEM BRINE DISSOLVING AND STORAGE TANK	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44216	0346-WCBF-MUS-TNK-301 : MAKE-UP WATER SYSTEM ZEOLITE SOFTENER	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44217	0346-WCBF-MUS-TNK-302 : MAKE-UP WATER SYSTEM ZEOLITE SOFTENER	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44218	0346-WCBF-MUS-TNK-303 : MAKE-UP WATER SYSTEM ZEOLITE SOFTENER	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44219	0346-WCBF-MUS-TNK-304 : MAKE-UP WATER SYSTEM BRINE DAY TANK	SERIALIZED	TANK	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44220	0346-WCBF-BLR1-TG-601 : BOILER 1 WATER TO STEAM TG	SERIALIZED	GAUGE TEMPERATURE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44221	0346-WCBF-BLR1-DMP-401 : BOILER 1 ECONOMIZER AIR INLET DAMPER	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44222	0346-WCBF-FW-DA-300 : FEEDWATER DEAERATOR	SERIALIZED	DEAERATOR	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44223	0346-WCBF-BLR1-DMP-402 : BOILER 1 CUMBUSTION CHAMBER AIR INLET	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44224	0346-WCBF-BLR2-DMP-401 : ECONOMIZER AIR INLET MANUALLY	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44225	0346-WCBF-BLR2-DMP-402 : CUMBUSTION CHAMBER AIR INLET AIR	SERIALIZED	DAMPER CONTROL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44226	0346-WCBF-MUS-FM-302 : MAKE-UP WATER SYSTEM SOFTENER B	SERIALIZED	FLOW METER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44227	0346-WCBF-MUS-FM-301 : MAKE-UP WATER SYSTEM SOFTENER A	SERIALIZED	FLOW METER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44228	0346-WCBF-BLR1-FLT-102 :	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44229	0346-WCBF-MUS-FM-303 : MAKE-UP WATER SYSTEM SOFTENER C	SERIALIZED	FLOW METER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44230	0346-WCBF-MPS-FLT-402 : BOILER 1 MEDIUM PRESSURE STEAM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44231	0346-WCBF-AIR-FIL-401 : TEMP. BOILER AIR SUPPLY FILTER	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44232	0346-WCBF-GFS-FIL-401 : GAS SUPPLY	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44233	0346-WCBF-GFS-FIL-402 : GAS SUPPLY	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44234	0346-WCBF-GFS-FIL-403 : GAS SUPPLY	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44235	0346-WCBF-BLR1-FLT-101 : BOILER 1 FEEDWATER AT ECONOMIZER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44236	0346-WCBF-BLR2-FLT-101 : FEEDWATER AT ECONOMIZER FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44237	0346-WCBF-FW-FLT-300 : FEEDWATER FLOW TRANSMITTER FROM DEAERATOR	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44238	0346-WCBF-MPS-FLT-401 : BOILER 2 MEDIUM PRESSURE STEAM FLOW	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44239	0346-WCBF-BLR1-FO-101 : BOILER 1 ECONOMIZER OUTLET FLOW TRANSMITTER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44240	0346-WCBF-MPS-FLT-403 : TEMP BOILER MEDIUM PRESSURE STEAM FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44241	0346-WCBF-MPS-V-470 : WCBF BOILER 1 MEDIUM PRESSURE STEAM FLOW TRANSMITTER ISOLATION VALVE	SERIALIZED	VALVE GATE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44242	0346-WCBF-BLR2-FO-101 : FEEDWATER TO ECONOMIZER FLOW ORIFICE	SERIALIZED	FLOW ORIFICE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44243	0346-WCBF-OIL-FIL-002 : OIL SUPPLY	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44244	0346-WCBF-GFS-FLT-401 : TEMPORARY BOILER GAS FUEL FLOW TRANSMITTER	SERIALIZED	TRANSMITTER FLOW	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44245	0346-WCBF-OIL-FIL-001 : OIL SUPPLY	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44246	0346-WCBF-MUS-FIL-300 : MAKE-UP WATER SYSTEM BRINE TANK	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44247	0346-WCBF-MUS-FIL-303 : MAKE-UP WATER SYSTEM CONTROL VALVE AIR	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44248	0346-WCBF-MUS-FIL-302 : MAKE-UP WATER SYSTEM CONTROL VALVE AIR	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44249	0346-WCBF-MUS-FIL-301 : MAKE-UP WATER SYSTEM CONTROL VALVE AIR	SERIALIZED	FILTER	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44250	0346-WCBF-AIR-V-1324 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44251	0346-WCBF-BLR1-V-002 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44252	0346-WCBF-AIR-V-1334 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44253	0346-WCBF-AIR-V-1333 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
44254	0346-WCBF-AIR-V-1332 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44255	0346-WCBF-AIR-V-1331 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44256	0346-WCBF-AIR-V-1330 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44257	0346-WCBF-AIR-V-1322 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44258	0346-WCBF-AIR-V-1325 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44259	0346-WCBF-BLR1-V-323 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44260	0346-WCBF-AIR-V-1323 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44261	0346-WCBF-AIR-V-1326 :	SERIALIZED	VALVE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44262	0346-WCBF-BLR1-V-316 : BOILER 1 STEAM DRUM SAMPLE ISO	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44263	0346-WCBF-MPS-V-458 : WCBF BOILER 2 MEDIUM PRESSURE STEAM SYSTEM PLUG VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44264	0346-WCBF-BLR1-V-302 : BOILER 1 STEAM DRUM SIGHT GLASS ISO	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44265	0346-WCBF-BLR2-V-215 : IGNITOR GAS SUPPLY ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44266	0346-WCBF-BLR2-V-301 : STEAM DRUM SIGHT GLASS ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44267	0346-WCBF-BLR2-V-302 : STEAM DRUM SIGHT GLASS ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44268	0346-WCBF-BLR2-V-314 : STEAM DRUM SAMPLE ISOLATION VALVE	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44269	0346-WCBF-MUS-AOV-300 : MAKE-UP WATER SYSTEM DEAERATOR TANK FILL CONTROL AIR OPERATED VALVE	SERIALIZED	VALVE AIR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44270	0346-WCBF-BLR1-AOV-101 : BOILER 1 WATER DRUM FW AOV	SERIALIZED	VALVE AIR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44271	0346-WCBF-BLR1-V-301 : BOILER 1 STEAM DRUM SIGHT GLASS ISO	SERIALIZED	VALVE ANGLE	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44272	0346-WCBF-BLR2-AOV-101 : WATER DRUM FEEDWATER AIR OPERATED	SERIALIZED	VALVE AIR OPERATED	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44273	0346-WCBF-CON-V-432 : WCBF EAST AIR INTAKE CONDENSATE RETURN ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
44274	0346-WCBF-AIR-V-1329 : AIR PRESSURE GAGE ISOLATION VALVE	SERIALIZED	VALVE BALL	ACTIVE	MAIN CAMPUS	WEST CAMPUS	West Campus Steam Plant
X862	Oakdale Meters & Controls Utility Sys	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	X862
X864	Oakdale Sanitary Sewer Sys	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	X864

Asset	Description	Asset Type	Asset Group	Status	Region	Facility	Property
X866	Oakdale Storm Sewer Sys	PROPERTY	BUILDINGS	ACTIVE	OAKDALE CAMPUS	RES PARK SOUTH	X866

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
S007030_S	DIST SPARE	Inventory	2.5" CS Slip On Flange 150# Spare	2
S007040_S	DIST SPARE	Inventory	3" CS Slip On Flange 150# Spare	2
S007070_S	DIST SPARE	Inventory	8" CS Slip On Flange 150# Spare	2
S007080_S	DIST SPARE	Inventory	10" CS Slip On Flange 150# Spare	4
S007310_S	DIST SPARE	Inventory	6" CS Slip On Flange 300# Spare	4
S007320_S	DIST SPARE	Inventory	8" CS Slip On Flange 300# Spare	2
S007340_S	DIST SPARE	Inventory	12" CS Slip On Flange 300# Spare	4
S010001_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH DO NOT	89
S010101_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "HOT SUPPLY"	7
S010102_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "IRRIGATION"	15
S010103_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "STORM"	32
S010104_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "SPECIAL"	15
S010105_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "HOT RETURN"	10
S010106_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "CW SUPPLY"	92
S010107_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "CW RETURN"	32
S010108_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "FIRE	34
S010109_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "FIRE	45
S010110_S	DIST SPARE	Inventory	VALVE, BOX LID partnumber-LID STAMPED WITH "LOCATES"	8
S011000_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 2" X 12.5" Style 261 OD Range 2.35"-2.63"	2
S011005_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 3" X 12.5" Style 261 OD Range 3.46"-3.70"	3
S011010_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 3-4" X 12.5" Style 261 OD Range 3.73"-4.00"	4
S011015_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 4" X 12.5" Style 261 OD Range 4.45"-4.73"	3
S011020_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 4" X 12.5" Style 261 OD Range 4.74"-5.14"	3
S011025_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 6" X 12.5" Style 261 OD Range 6.56"-6.96"	3
S011030_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 6" X 12.5" Style 261 OD Range 6.84"-7.24"	4
S011035_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 8" X 12.5" Style 261 OD Range 8.54"-8.94"	3
S011040_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 10" X 12.5" Style 261 OD Range 11.04"-11.44"	4
S011045_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 10" X 12.5" Style 261 OD Range 8.99"-9.39"	4
S011050_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 10" X 12.5" Style 261 OD Range 10.64"-11.04"	3
S011055_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 12" X 15" Style 261 OD Range 13.10"-13.50"	4
S011060_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 12" X 12.5" Style 261 OD Range 13.10"-13.50"	3
S011070_S	DIST SPARE	Inventory	18" Butterfly ValMatic 2118/2E02 150B MJ BFV W/BS TNA N	2
S011075_S	DIST SPARE	Inventory	20" Butterfly ValMatic 2120 150 B Mj BFV W/BS TNA N	1
S011080_S	DIST SPARE	Inventory	24" Butterfly ValMatic 2124/2F02A 150B MJ BFV W/BS TNA N	2
S011085_S	DIST SPARE	Inventory	30" Butterfly ValMatic 2130/2602A 150 B Mj BFV W/BS TNA N	2
S011090_S	DIST SPARE	Inventory	36" Butterfly ValMatic	2
S011095_S	DIST SPARE	Inventory	12" MJ x MJ 120A236023LN	1
S011100_S	DIST SPARE	Inventory	12" MJ X MJ (THINNER) 261A1LAFMMO	1
S011105_S	DIST SPARE	Inventory	12" MJ x FLANGE C515D112250W	1
S011110_S	DIST SPARE	Inventory	10" MJ X MJ 100A236023LN	1
S011115_S	DIST SPARE	Inventory	8" MJ X MJ MULLER 2360	3
S011120_S	DIST SPARE	Inventory	8" Double Flange end	1
S011125_S	DIST SPARE	Inventory	6" Double Flange Clow 26400630117009	2
S011130_S	DIST SPARE	Inventory	6" MJ X Flange 060T236019LN	2
S012030_S	DIST SPARE	Inventory	CLAMP, SMITH BLAIR 24" X 20" X 263 DUCTILE IRON	1
S100000_S	DIST SPARE	Inventory	3" MJ Megalug Restraint/Flange	4
S100004_S	DIST SPARE	Inventory	3" Spool/Solid Sleeve 3"x12"	2
S100005_S	DIST SPARE	Inventory	3" 90	2
S100008_S	DIST SPARE	Inventory	3" Cap	2
S100011_S	DIST SPARE	Inventory	4" MJ Megalug Split kit with acc DI	2
S100014_S	DIST SPARE	Inventory	4" Spool/Solid Sleeve 4"x12"	2
S100018_S	DIST SPARE	Inventory	4" Cap	2
S100019_S	DIST SPARE	Inventory	4" flange adapter PN 2104	2
S100020_S	DIST SPARE	Inventory	6" MJ Megalug Restraint/Flange	4
S100021_S	DIST SPARE	Inventory	6" MJ Megalug Split kit with acc 1106SD	2
S100024_S	DIST SPARE	Inventory	6" Solid Sleeve	4
S100026_S	DIST SPARE	Inventory	6' Plug	2
S100027_S	DIST SPARE	Inventory	6" 45 Elbow	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
S100028_S	DIST SPARE	Inventory	6" Cap	2
S100030_S	DIST SPARE	Inventory	8" MJ Megalug Restraint/Flange W ACC 1108DEC	4
S100031_S	DIST SPARE	Inventory	8" MJ Split Megalug kit with ACC	2
S100034_S	DIST SPARE	Inventory	8" Spool/ Solid Sleeve	6
S100035_S	DIST SPARE	Inventory	8" Test Plug	1
S100036_S	DIST SPARE	Inventory	8" Plug (not test)	2
S100038_S	DIST SPARE	Inventory	8" Cap	2
S100040_S	DIST SPARE	Inventory	10" MJ Megalug Restraint/Flange	4
S100041_S	DIST SPARE	Inventory	10" MJ Split Megalug w Acc	2
S100044_S	DIST SPARE	Inventory	10" Spool/Solid Sleeve	6
S100046_S	DIST SPARE	Inventory	10" Plug	2
S100048_S	DIST SPARE	Inventory	10" Cap	1
S100049_S	DIST SPARE	Inventory	12" Test Plug	1
S100052_S	DIST SPARE	Inventory	12" Spool/Solid Sleeve	3
S100053_S	DIST SPARE	Inventory	12" Plug	2
S100054_S	DIST SPARE	Inventory	12" Cap	1
S100057_S	DIST SPARE	Inventory	14" Spool/Solid Sleeve	1
S100070_S	DIST SPARE	Inventory	18" MJ Megalug Restraint/Flange	3
S100080_S	DIST SPARE	Inventory	20" MJ Megalug Restraint/Flange	8
S100084_S	DIST SPARE	Inventory	20" Spool/Solid Sleeve	4
S100092_S	DIST SPARE	Inventory	24" MJ Megalug Blue Bolt Kit with Gasket	8
S100094_S	DIST SPARE	Inventory	24" Spool/Solid Sleeve	1
S100100_S	DIST SPARE	Inventory	30" MJ Megalug Restraint/Flange	6
S100102_S	DIST SPARE	Inventory	30" MJ Megalug Blue Bolt Kit with Gasket	4
S100104_S	DIST SPARE	Inventory	30" Spool/ Solid Sleeve	1
S100110_S	DIST SPARE	Inventory	36" MJ Megalug Restraint/Flange	6
S100114_S	DIST SPARE	Inventory	36" Spool/Solid Sleeve	1
U000275_S	DIST SPARE	Inventory	RDSS-45 Flood Bag **SURPLUS**; P/N Tyco Electronics 863155-000	10
U000285_S	DIST SPARE	Inventory	RDSS-60 FloodBag**SURPLUS**; P/N Tyco Electronics 699412-000	24
U000290_S	DIST SPARE	Inventory	RDSS-75 Flood Bag **SURPLUS**; P/N Tyco Electronics 928709-000	7
U000295_S	DIST SPARE	Inventory	RDSS-CLIP-75 **SURPLUS**; P/N Tyco Electronics RDSS-CLIP-	7
U000300_S	DIST SPARE	Inventory	RDSS-125 Flood Bag **SURPLUS**; P/N Tyco Electronics 588693-	16
U000320_S	DIST SPARE	Inventory	RDSS 125 Clip for Flood Bag **SURPLUSS**; P/N Tyco Electronics	6
U000400_S	DIST SPARE	Inventory	E4540-1435 Lubricant for Flood Bag; P/N Tyco Electronics E4540-	14
U000500_S	DIST SPARE	Inventory	4" Rigid 90 Conduit Elbow; P/N Calcon ST4090E6L00	4
U000505_S	DIST SPARE	Inventory	2-1/2" Rigid 90 Conduit Elbow; P/N Calcon ST2590EL00	15
U000510_S	DIST SPARE	Inventory	2-1/2" Rigid Aluminum 90 Conduit Elbow; P/N American Conduit 3-212	4
U000530_S	DIST SPARE	Inventory	2" Rigid 90 Conduit Elbow; P/N Calcon ST2090EL00	11
U000540_S	DIST SPARE	Inventory	1-1/2" Rigid 90 Conduit Elbow; P/N Calcon ST1590EL00	4
U000550_S	DIST SPARE	Inventory	1-1/4" Rigid 90 Conduit Elbow; P/N Calcon ST1290EL00	8
U000560_S	DIST SPARE	Inventory	1" Rigid 90 Conduit Elbow; P/N Calcon ST1090EL00	1
U000570_S	DIST SPARE	Inventory	3/4" Rigid 90 Conduit Elbow; P/N Calcon ST0790EL00	2
U000600_S	DIST SPARE	Inventory	2-1/2" PVC 90 Conduit Elbow; P/N Carlon UA9AK-CAR	6
U000620_S	DIST SPARE	Inventory	1-1/2" PVC 90 Conduit Elbow; P/N Carlon UA9AH	3
U000630_S	DIST SPARE	Inventory	1-1/4" PVC 90 Conduit Elbow; P/N Carlon UA9AG	2
U000640_S	DIST SPARE	Inventory	1" PVC 90 Conduit Elbow; P/N Carlon UA9AFR-CTN	2
U000650_S	DIST SPARE	Inventory	2" PVC 90 Conduit Elbow; P/N Carlon UA9AJ	1
U000660_S	DIST SPARE	Inventory	1/2" PVC 90 Conduit Elbow; P/N Carlon UA9ADR-CAR	2
U000670_S	DIST SPARE	Inventory	4" PVC 45 Conduit Elbow; P/N Carlon UA7AN	3
U000680_S	DIST SPARE	Inventory	2-1/2" PVC 45 Conduit Elbow; P/N Carlon UA7AK	2
U000690_S	DIST SPARE	Inventory	2" PVC 45 Conduit Elbow; P/N Carlon UA7AJ	2
U000700_S	DIST SPARE	Inventory	4" PVC OLB Conduit Body; P/N Carlon E986N	2
U000710_S	DIST SPARE	Inventory	2" PVC OLB Conduit Body; P/N Carlon E986J	1
U000720_S	DIST SPARE	Inventory	1-1/2" PVC OLB Conduit Body; P/N Carlon E986H-CAR	1
U000730_S	DIST SPARE	Inventory	3/4" PVC OT Conduit Body; P/N Carlon E983E-CAR	1
U000740_S	DIST SPARE	Inventory	1/2" PVC OLB Conduit Body; P/N Carlon E986D-CAR	2
U000800_S	DIST SPARE	Inventory	Schweitzer Fault Indicator; P/N Schweitzer Engineering Laboratories	5
U000810_S	DIST SPARE	Inventory	Cooper Power Systems Heavy-Duty Arrester, 10kV, 8.4 MCOV, 2.5"	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U000820_S	DIST SPARE	Inventory	Schweitzer Voltage Indicator VIN600; P/N Schweitzer Engineering	12
U001000_S	DIST SPARE	Inventory	500 MCM - #4 AWG Two-Hole Insulated Tap Connector, Al/Cu; P/N	16
U001050_S	DIST SPARE	Inventory	500 MCM - #4 AWG Four-Hole Insulated Tap Connector, Al/Cu; P/N	19
U001100_S	DIST SPARE	Inventory	4/0 AWG - #6 AWG, 600V Four-Port Clear Tap Connector; P/N ilsco	8
U001200_S	DIST SPARE	Inventory	600 MCM - #4 AWG, 600V Two-Port, Two-Sided Insulated Tap	4
U001250_S	DIST SPARE	Inventory	600 MCM - #4 AWG Six-Hole, Two-Sided Clear Tap Connector, Al/Cu;	5
U001275_S	DIST SPARE	Inventory	600 MCM - #4 AWG Four-Port, Two-Sided Clear Tap Connector; P/N	1
U001300_S	DIST SPARE	Inventory	500 MCM - #4 AWG Eight-Hole Insulated Tap Connector, Al/Cu; P/N	4
U001350_S	DIST SPARE	Inventory	500 MCM - #6 AWG Two-Hole Insulated Tap Connector; P/N Thomas	5
U001375_S	DIST SPARE	Inventory	500 MCM - #6 AWG Two-Hole Clear Tap Connector, Aluminum; P/N	9
U001400_S	DIST SPARE	Inventory	350 MCM - #6 AWG Six-Hole, Two-Sided Clear Tap Connector; P/N	3
U001450_S	DIST SPARE	Inventory	350 MCM - #6 AWG Four-Hole Insulated Tap Connector; P/N Polaris IT-	5
U001500_S	DIST SPARE	Inventory	Heavy Wall Heat Shrinkable End Cap, 600V, 1.50"-0.47"; P/N Thomas	9
U001510_S	DIST SPARE	Inventory	Heat Shrink Heavy-Duty End Cap, 0.59"-1.26"; P/N 3M SKE-15/40	15
U001520_S	DIST SPARE	Inventory	Heat Shrink Heavy-Duty End Cap, 1.18"-2.36"; P/N 3M SKE-30/76	5
U001530_S	DIST SPARE	Inventory	Heavy Wall Heat Shrinkable Tubing, 0.63"-1.00"; P/N Thomas & Betts	9
U001540_S	DIST SPARE	Inventory	Heat Shrink Heavy-Duty End Cap, 1.00"-1.97"; P/N 3M SKE-25/63	7
U001550_S	DIST SPARE	Inventory	Cold Shrink End Cap EC-3, 1.02"-1.94"; P/N 3M EC-3	9
U001560_S	DIST SPARE	Inventory	Heavy Wall Heat Shrink Tubing, 250-750 MCM, 600V, 0.65"-2.00"; P/N	18
U002000_S	DIST SPARE	Inventory	1/2" PVC Conduit Repair Coupling; P/N Carlon E910D	22
U002005_S	DIST SPARE	Inventory	3/4" PVC Conduit Repair Coupling; P/N Carlon E910E	21
U002010_S	DIST SPARE	Inventory	1" PVC Conduit Repair Coupling; P/N Carlon E910F	7
U002015_S	DIST SPARE	Inventory	1-1/4" PVC Conduit Repair Coupling; P/N Carlon E910G	10
U002020_S	DIST SPARE	Inventory	1-1/2" PVC Conduit Repair Coupling; P/N Carlon E910H	10
U002025_S	DIST SPARE	Inventory	2" PVC Conduit Repair Coupling; P/N Carlon E910J	9
U003000_S	DIST SPARE	Inventory	2" x 6" Split Duct; P/N Thomas & Betts E200JS6	18
U003010_S	DIST SPARE	Inventory	2" X 24" Split Duct; P/N Carlon 49011SD-010	13
U003020_S	DIST SPARE	Inventory	3" X 7 " Split Duct; P/N Carlon 49013SD-010	6
U003030_S	DIST SPARE	Inventory	3" X 24" Split Duct; P/N Carlon 49013SD-010	1
U003040_S	DIST SPARE	Inventory	4" X 8" Split Duct; P/N Carlon 49015SD-010	7
U003050_S	DIST SPARE	Inventory	4" X 18" Split Duct; P/N Carlon 49015SD-010	1
U003070_S	DIST SPARE	Inventory	5" X 24" Split Duct; P/N Carlon 49016SD-010	3
U003080_S	DIST SPARE	Inventory	4" X 5' Split Duct; P/N Carlon 49015SD-010	4
U003090_S	DIST SPARE	Inventory	2" X 55" Split Duct; P/N Carlon 49011SD-010	1
U003100_S	DIST SPARE	Inventory	2" x 7' Split Duct; P/N Carlon 49011SD-010	2
U003720_S	DIST SPARE	Inventory	250W MV Mogul Base Bulb; H37 P/N Philips Lighting 140806	6
U004000_S	DIST SPARE	Inventory	3-1/2" Rigid OLB; P/N Killark OLB-9M	2
U004010_S	DIST SPARE	Inventory	3" Rigid OLR; P/N Killark OLR-8M	1
U004020_S	DIST SPARE	Inventory	3" Rigid OLL; P/N Killark LL888	1
U004030_S	DIST SPARE	Inventory	3" Rigid OE	2
U004040_S	DIST SPARE	Inventory	3" Rigid OC; P/N Killark OC-8M	4
U004050_S	DIST SPARE	Inventory	3" Rigid OLB; P/N Killark OLB-8M	1
U004060_S	DIST SPARE	Inventory	2" Rigid OLB; P/N Killark OLB-6M	6
U004070_S	DIST SPARE	Inventory	2" Rigid OLL; P/N Killark OLL-6M	1
U004080_S	DIST SPARE	Inventory	2-1/2" Rigid OLB; P/N Killark OLB-7M	5
U004090_S	DIST SPARE	Inventory	1-1/2" Rigid OC; P/N Killark OC-5M	2
U004100_S	DIST SPARE	Inventory	1-1/2" Rigid OLB; P/N Killark OLB-5M	6
U004110_S	DIST SPARE	Inventory	1-1/4" Rigid OLB; P/N Killark OLB-4M	2
U004120_S	DIST SPARE	Inventory	1-1/4" Rigid OLR; P/N Killark OLR-4M	1
U004130_S	DIST SPARE	Inventory	1" Rigid T; P/N Killark OT-3M	1
U004140_S	DIST SPARE	Inventory	1" Rigid OLB; P/N Killark OLB-3M	2
U004150_S	DIST SPARE	Inventory	1" Rigid OLR; P/N Killark OLR-3M	1
U004180_S	DIST SPARE	Inventory	1/2" Rigid OLB; P/N Killark OLB-1M	1
U004190_S	DIST SPARE	Inventory	1/2" Rigid OLR; P/N Killark OLR-1M	1
U004200_S	DIST SPARE	Inventory	1/2" Rigid T; P/N Killark OT-1M	3
U004210_S	DIST SPARE	Inventory	3-1/2"- 4" OL Cover; P/N Killark OL-90CM	6
U004220_S	DIST SPARE	Inventory	1-1/4" - 1-1/2" OL Cover; P/N Killark OL-45CM	4
U004230_S	DIST SPARE	Inventory	1" OL Cover; P/N Killark OL-30CM	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U004240_S	DIST SPARE	Inventory	1/2" OL Cover; P/N Killark OL-10CM	3
U004250_S	DIST SPARE	Inventory	3/4" OL Cover; P/N Killark OL-20CM	1
U004550_S	DIST SPARE	Inventory	2" Rigid Bell End; P/N Gedney TNS-200	42
U004600_S	DIST SPARE	Inventory	3" Rigid Bell End; P/N Gedney TNS-300	4
U004700_S	DIST SPARE	Inventory	5" Rigid Bell End; P/N Gedney TNS-500	4
U004750_S	DIST SPARE	Inventory	5" Pipe Cap	1
U005000_S	DIST SPARE	Inventory	1/2" PVC Coupling; P/N Carlon E940D	7
U005005_S	DIST SPARE	Inventory	1/2" Non-Metallic 90 Liquidtight Fitting; P/N Carlon LT200N A292	2
U005010_S	DIST SPARE	Inventory	3/4" PVC Coupling; P/N Carlon E940E	14
U005020_S	DIST SPARE	Inventory	3/4" PVC Male Threaded Coupling; P/N Cantex 5140104	4
U005030_S	DIST SPARE	Inventory	1" PVC Coupling; P/N Carlon E940F	17
U005040_S	DIST SPARE	Inventory	1-1/4" PVC Coupling; P/N Carlon E940G	7
U005045_S	DIST SPARE	Inventory	1-1/4" PVC Male Threaded Coupling; P/N Carlon E943G	2
U005050_S	DIST SPARE	Inventory	1-1/2" PVC Female Threaded Coupling; P/N Carlon E942H	1
U005070_S	DIST SPARE	Inventory	1-1/2" PVC Coupling; P/N Carlon E940H	4
U005080_S	DIST SPARE	Inventory	2" PVC Male Threaded Coupling; P/N Carlon E943J	6
U005090_S	DIST SPARE	Inventory	2" PVC Bell End; P/N Carlon E997J	3
U005100_S	DIST SPARE	Inventory	2" PVC Coupling; P/N Carlon E940J	35
U005110_S	DIST SPARE	Inventory	2-1/2" PVC Coupling; P/N Carlon E940K	14
U005120_S	DIST SPARE	Inventory	3" PVC Male Threaded Coupling; P/N Carlon E943L	2
U005130_S	DIST SPARE	Inventory	3-1/2" PVC Coupling; P/N Carlon E940M	2
U005140_S	DIST SPARE	Inventory	4" PVC Bell End; P/N Carlon E997N	1
U005150_S	DIST SPARE	Inventory	4" PVC Male Threaded Coupling; P/N Carlon E943N	3
U005160_S	DIST SPARE	Inventory	4" PVC Coupling, P/N Carlon E940N	4
U005170_S	DIST SPARE	Inventory	5" PVC Cap, P/N Carlon E958P	6
U005180_S	DIST SPARE	Inventory	5" PVC Bell End; P/N Carlon E997P	6
U005190_S	DIST SPARE	Inventory	5" PVC Male Threaded Coupling; P/N Carlon E943P	3
U005200_S	DIST SPARE	Inventory	5" PVC Female Threaded Coupling; P/N Carlon E942P	10
U005210_S	DIST SPARE	Inventory	5" PVC Coupling; P/N Carlon E940P	1
U005310_S	DIST SPARE	Inventory	3/4" EMT Conduit Hanger; P/N Minerallac 1B	54
U005320_S	DIST SPARE	Inventory	1" EMT Conduit Hanger; P/N Minerallac 2B	19
U005330_S	DIST SPARE	Inventory	1-1/4" EMT Conduit Hanger; P/N Minerallac 2-1/2B	14
U005340_S	DIST SPARE	Inventory	1-1/2" EMT Conduit Hanger; P/N Minerallac 3B	25
U005350_S	DIST SPARE	Inventory	1-1/2" Rigid Conduit Hanger; P/N Minerallac 4B	30
U005400_S	DIST SPARE	Inventory	3" EMT Conduit Clamp; P/N Minerallac 7B	3
U005410_S	DIST SPARE	Inventory	5" Rigid Conduit Clamp; P/N Minerallac 10B	8
U005420_S	DIST SPARE	Inventory	1" Nonmetallic Conduit Clamp; P/N Carlon E977FC	52
U005430_S	DIST SPARE	Inventory	2" Nonmetallic Conduit Clamp; P/N Carlon E977JC	24
U005500_S	DIST SPARE	Inventory	4" EMT 90 Sweep; P/N Calconduit EM4036SW90	1
U005510_S	DIST SPARE	Inventory	4" EMT 90 Elbow; P/N Calconduit EM4090EL00	4
U005520_S	DIST SPARE	Inventory	3" EMT 90 Elbow; P/N Calconduit EM3090EL00	3
U005530_S	DIST SPARE	Inventory	2" EMT 90 Elbow; P/N Calconduit EM2090EL00	22
U005540_S	DIST SPARE	Inventory	2" EMT 45 Elbow; P/N Calconduit EM2045EL00	1
U005550_S	DIST SPARE	Inventory	1-1/2" EMT 90 Elbow; P/N Calconduit EM1590EL00	25
U005560_S	DIST SPARE	Inventory	1-1/2" EMT 45 Elbow; P/N Calconduit EM1525EL00	1
U005570_S	DIST SPARE	Inventory	1" EMT 90 Elbow; P/N Calconduit EM1090EL00	4
U005580_S	DIST SPARE	Inventory	1-1/4" EMT 90 Elbow; P/N Calconduit EM1290EL00	4
U005600_S	DIST SPARE	Inventory	2" PVC Weather Head; P/N Carlon E998J-CAR	2
U005610_S	DIST SPARE	Inventory	3-1/2" PVC Weather Head; P/N Carlon E998M	1
U005620_S	DIST SPARE	Inventory	6" x 6" PVC Box; P/N Kraloy JB664	1
U006000_S	DIST SPARE	Inventory	2" EMT Compression Coupling; P/N Rac0 2928	14
U006010_S	DIST SPARE	Inventory	2-1/2" EMT Set-Screw Coupling; P/N Rac0 2150	3
U006020_S	DIST SPARE	Inventory	2-1/2" EMT Box Compression Connector; P/N Rac0 2940	2
U006030_S	DIST SPARE	Inventory	2" EMT Box Compression Connector; P/N Rac0 2828	6
U006040_S	DIST SPARE	Inventory	1-1/2" EMT Compression Coupling; P/N Rac0 2926	29
U006050_S	DIST SPARE	Inventory	1-1/2" EMT Box Compression Connector; P/N Rac0 2906	10
U006060_S	DIST SPARE	Inventory	1-1/2" EMT Set-Screw Coupling; P/N Rac0 2626	25
U006070_S	DIST SPARE	Inventory	1-1/4" EMT Set-Screw Coupling; P/N Rac0 2025	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U006080_S	DIST SPARE	Inventory	1-1/4" EMT Compression Coupling; P/N Raco 2925	10
U006090_S	DIST SPARE	Inventory	1-1/4" EMT Box Compression Connector; P/N Raco 2905	4
U006120_S	DIST SPARE	Inventory	1" EMT Box Set-Screw Connector; P/N Raco 2604	6
U006130_S	DIST SPARE	Inventory	1/2" EMT Compression Coupling; P/N Raco 2922	102
U006140_S	DIST SPARE	Inventory	3/4" EMT Set-Screw Coupling; P/N Raco 2023	13
U006150_S	DIST SPARE	Inventory	3/4" EMT Box Set-Screw Connector; P/N Raco 2003	10
U006160_S	DIST SPARE	Inventory	3/4" EMT Compression Coupling; P/N Raco 2923	13
U006170_S	DIST SPARE	Inventory	1/2" EMT Box Compression Connector; P/N Raco 2902	13
U006180_S	DIST SPARE	Inventory	4" EMT-IMC-Rigid Coupling	4
U006190_S	DIST SPARE	Inventory	4" EMT Compression Coupling; P/N Raco 2956	2
U006200_S	DIST SPARE	Inventory	4" EMT Box Connector; P/N Halex 133-10	6
U006210_S	DIST SPARE	Inventory	4" EMT Set-Screw Coupling; P/N Halex 134-10	4
U006220_S	DIST SPARE	Inventory	3-1/2" EMT Compression Coupling; P/N Raco 2954US	3
U006230_S	DIST SPARE	Inventory	3-1/2" EMT Box Connector; P/N Raco 2650	3
U006240_S	DIST SPARE	Inventory	3" EMT Set-Screw Coupling; P/N Raco 2152US	4
U006250_S	DIST SPARE	Inventory	3" EMT Box Connector; P/N Raco 2642	2
U006260_S	DIST SPARE	Inventory	3" EMT Compression Coupling; P/N Raco 2952	4
U006300_S	DIST SPARE	Inventory	1/2" EMT Strut Clamp, P/N Eaton B-Line B2208	15
U006310_S	DIST SPARE	Inventory	3/4" EMT Strut Clamp; P/N Eaton B-Line B2002	16
U006320_S	DIST SPARE	Inventory	1" EMT Strut Clamp; P/N Thomas & Betts Superstrut 703-1	82
U006330_S	DIST SPARE	Inventory	1-1/4" EMT Strut Clamp; P/N Eaton B-Line B2004	13
U006340_S	DIST SPARE	Inventory	1-1/2" EMT Strut Clamp; P/N Eaton B-Line B2005	18
U006350_S	DIST SPARE	Inventory	2" EMT Strut Clamp; P/N Power Strut PS1300	31
U006400_S	DIST SPARE	Inventory	1" Rigid Strut Clamp; P/N Fastenal 48883	73
U006420_S	DIST SPARE	Inventory	2" Rigid Strut Clamp; P/N Thomas & Betts Superstrut 703-2	13
U006430_S	DIST SPARE	Inventory	2-1/2" Rigid Strut Clamp; P/N Power Strut OS1100	31
U006440_S	DIST SPARE	Inventory	3" Rigid Strut Clamp; P/N Thomas & Betts Superstrut 703-3	2
U006450_S	DIST SPARE	Inventory	6" Rigid Pipe Clamp; P/N Eaton B-Line B2020	211
U006470_S	DIST SPARE	Inventory	5" Rigid Pipe Clamp; P/N Eaton B-Line B2019	17
U006480_S	DIST SPARE	Inventory	4-1/2" Rigid Pipe Clamp; P/N Eaton B-Line B2018	15
U006490_S	DIST SPARE	Inventory	4" Rigid Pipe Clamp; P/N Eaton B-Line B2017	9
U006500_S	DIST SPARE	Inventory	3-1/2" Rigid Pipe Clamp; P/N Unistrut P1120	53
U007000_S	DIST SPARE	Inventory	6" Rigid Threaded Coupling; P/N Garvin RC-600	2
U007010_S	DIST SPARE	Inventory	5" Rigid Threaded Coupling; P/N Garvin RC-500	22
U007020_S	DIST SPARE	Inventory	4" Rigid Threaded Coupling; P/N Garvin RC-400	6
U007030_S	DIST SPARE	Inventory	3" Rigid Split Threaded Coupling; P/N Bridgeport SRC-300	2
U007040_S	DIST SPARE	Inventory	3" Rigid Threaded Coupling; P/N Garvin RC-300	6
U007050_S	DIST SPARE	Inventory	2" Rigid Threaded Coupling; P/N Garvin RC-200	12
U007060_S	DIST SPARE	Inventory	1-1/2" Rigid Threaded Coupling; P/N Garvin RC-150	11
U007070_S	DIST SPARE	Inventory	1" Rigid Threaded Coupling; P/N Garvin RC-100	18
U007080_S	DIST SPARE	Inventory	3/4" Rigid Threaded Coupling; P/N Garvin RC-75	9
U007090_S	DIST SPARE	Inventory	5" Rigid 3-Piece Coupling; P/N Raco 1520	6
U007100_S	DIST SPARE	Inventory	4" Rigid 3-Piece Coupling; P/N Raco 1516	4
U007110_S	DIST SPARE	Inventory	3-1/2" Rigid 3-Piece Coupling; P/N Raco 1514	3
U007130_S	DIST SPARE	Inventory	2-1/2" Rigid 3-Piece Coupling; P/N Raco 1510	2
U007140_S	DIST SPARE	Inventory	2" Rigid 3-Piece Coupling; P/N Raco 1508	4
U007150_S	DIST SPARE	Inventory	1-1/2" Rigid 3-Piece Coupling; P/N Raco 1506	1
U007160_S	DIST SPARE	Inventory	1" Rigid 3-Piece Coupling; P/N Raco 1504	1
U007170_S	DIST SPARE	Inventory	3/4" Rigid 3-Piece Coupling; P/N Raco 1503	5
U007180_S	DIST SPARE	Inventory	1/2" Rigid 3-Piece Coupling; P/N Raco 1502	5
U007190_S	DIST SPARE	Inventory	4-1/2" Rigid Split Compression Coupling for Tubing; P/N Morris 4-4C	1
U007200_S	DIST SPARE	Inventory	2-1/2" Rigid Compression Coupling; P/N Bridgeport 3006	4
U007220_S	DIST SPARE	Inventory	1-1/2" Rigid Compression Coupling; P/N Raco 1806	1
U007230_S	DIST SPARE	Inventory	3/4" Rigid Compression Coupling; P/N Raco 1823	12
U007240_S	DIST SPARE	Inventory	1/2" Rigid Compression Coupling; P/N Raco 1822	11
U007250_S	DIST SPARE	Inventory	5" Rigid Set-Screw Coupling; P/N Topaz 650SA	6
U008000_S	DIST SPARE	Inventory	1/2" EMT 1-Hole Push-On Strap; P/N Raco 2082	162
U008010_S	DIST SPARE	Inventory	3/4" EMT 1-Hole Push-On Strap; P/N Raco 2083	64

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U008020_S	DIST SPARE	Inventory	1" EMT 1-Hole Push-On Strap; P/N Raco 2084	46
U008030_S	DIST SPARE	Inventory	1-1/4" EMT 1-Hole Push-On Strap; P/N Raco 2085	9
U008040_S	DIST SPARE	Inventory	1-1/2" EMT 1-Hole Push-On Strap; P/N Raco 2086	10
U008050_S	DIST SPARE	Inventory	2" EMT 1-Hole Push-On Strap; P/N Raco 2088	17
U008060_S	DIST SPARE	Inventory	4" EMT 2-Hole Strap; P/N Raco 2242	12
U008100_S	DIST SPARE	Inventory	1" Rigid 1-Hole Push-On Strap; P/N Raco 1334	73
U008110_S	DIST SPARE	Inventory	2" Rigid 1-Hole Push-On Strap; P/N Raco 1338	79
U008120_S	DIST SPARE	Inventory	3" Rigid 2-Hole Strap; P/N Raco 2240	16
U008130_S	DIST SPARE	Inventory	4" Rigid 2-Hole Strap; P/N Raco 2242	4
U008160_S	DIST SPARE	Inventory	15A 120V Fused Outlet	1
U008170_S	DIST SPARE	Inventory	Junction Box Cover	1
U008190_S	DIST SPARE	Inventory	HD Spec Grade Switch 20A 120/277V; P/N Pass & Seymour	2
U008200_S	DIST SPARE	Inventory	3/4"-1/2" Reducers; P/N Killark RE21S	14
U008210_S	DIST SPARE	Inventory	4"x4" Square Junction Box; P/N Garvin 52151-3/4DR	1
U008220_S	DIST SPARE	Inventory	4"x4" Box Extension; P/N Garvin 52151-3/4 T&B PN531711234	14
U008240_S	DIST SPARE	Inventory	2-1/2" x 4" Weather Proof; P/N Grainger 3KG83	2
U008250_S	DIST SPARE	Inventory	Weatherproof Outlet Cover	4
U008255_S	DIST SPARE	Inventory	Killark Light Fixture	2
U008260_S	DIST SPARE	Inventory	Weatherproof Switch Cover	2
U008265_S	DIST SPARE	Inventory	Killark Fixture Body	2
U008270_S	DIST SPARE	Inventory	4" x 4" Blank Box Cover	1
U008280_S	DIST SPARE	Inventory	4-3/4" x 4-3/4" Blank Box Cover	7
U008290_S	DIST SPARE	Inventory	2 Gang Weatherproof Box Cover; P/N Seymour 30244	1
U008300_S	DIST SPARE	Inventory	Hoffman Plug 4"; P/N Hoffman AS400	3
U008310_S	DIST SPARE	Inventory	2" Knock Out Plug; P/N Bridgeport 1696	8
U008320_S	DIST SPARE	Inventory	1-1/2" Knock Out Plug; P/N Bridgeport 1695	9
U008330_S	DIST SPARE	Inventory	1-1/4" Knock Out Plug; P/N Bridgeport 1694	6
U008340_S	DIST SPARE	Inventory	1" Knock Out Plug; P/N Bridgeport 1693	7
U008350_S	DIST SPARE	Inventory	1/2" Knock Out Plug; P/N Bridgeport 1691	54
U008360_S	DIST SPARE	Inventory	4" Square Cover Round; P/N Raco 810C	4
U008370_S	DIST SPARE	Inventory	Closure Plates	5
U008400_S	DIST SPARE	Inventory	1/2" Metal Flex Conduit Squeeze Connector; P/N Cable Organizer CON-	15
U008410_S	DIST SPARE	Inventory	1/2" 90 degree Liquid Tight Connector; P/N Thomas & Betts 4961	8
U008420_S	DIST SPARE	Inventory	2" Liquid Tight Connector; P/N Thomas & Betts 2577	2
U008590_S	DIST SPARE	Inventory	1/2" Bushing; P/N Multiple 1402	1
U008600_S	DIST SPARE	Inventory	3/4" Bushing; P/N Multiple 1403	8
U008610_S	DIST SPARE	Inventory	1" Bushing; P/N Multiple 1404	2
U008620_S	DIST SPARE	Inventory	1-1/4" Bushing; P/N Multiple 1405	12
U008630_S	DIST SPARE	Inventory	1-1/2" Bushing; P/N Multiple 1406	20
U008640_S	DIST SPARE	Inventory	2" Bushing; P/N Multiple 1408	3
U008650_S	DIST SPARE	Inventory	2-1/2" Bushing; P/N Multiple 1410	21
U008660_S	DIST SPARE	Inventory	3" Bushing; P/N Multiple 1412	21
U008670_S	DIST SPARE	Inventory	3-1/2" Bushing; P/N Multiple 1414	27
U008680_S	DIST SPARE	Inventory	4" Bushing; P/N Multiple 1416	22
U008690_S	DIST SPARE	Inventory	5" Bushing; P/N Multiple 1420	14
U008700_S	DIST SPARE	Inventory	6" Bushing; P/N Multiple 1424	6
U008710_S	DIST SPARE	Inventory	3/4" Push-On Non-Metallic Insulating Bushing for Al/Steel EMT; P/N	172
U008720_S	DIST SPARE	Inventory	2" Push-On Non-Metallic Insulating Bushing for Al/Steel EMT; P/N	49
U008800_S	DIST SPARE	Inventory	6" Conduit Locknut; P/N Eaton Crouse-Hinds 23	6
U008810_S	DIST SPARE	Inventory	5" Conduit Locknut; P/N Eaton Crouse-Hinds 22	9
U008820_S	DIST SPARE	Inventory	4" Conduit Locknut; P/N Eaton Crouse-Hinds 20	18
U008830_S	DIST SPARE	Inventory	3-1/2" Conduit Locknut; P/N Eaton Crouse-Hinds 19	31
U008840_S	DIST SPARE	Inventory	3" Conduit Locknut; P/N Eaton Crouse-Hinds 18	5
U008850_S	DIST SPARE	Inventory	2-1/2" Conduit Locknut; P/N Eaton Crouse-Hinds 17	19
U008860_S	DIST SPARE	Inventory	2" Conduit Locknut; P/N Eaton Crouse-Hinds 16	17
U008870_S	DIST SPARE	Inventory	1-1/2" Conduit Locknut; P/N Eaton Crouse-Hinds 15	29
U008880_S	DIST SPARE	Inventory	1-1/4" Conduit Locknut; P/N Eaton Crouse-Hinds 14	53
U008890_S	DIST SPARE	Inventory	1" Conduit Locknut; P/N Eaton Crouse-Hinds 13	28

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U008900_S	DIST SPARE	Inventory	3/4" Conduit Locknut; P/N Eaton Crouse-Hinds 12	113
U008910_S	DIST SPARE	Inventory	1/2" Conduit Locknut; P/N Eaton Crouse-Hinds 11	104
U009000_S	DIST SPARE	Inventory	4" x 14" Pipe Nipple	1
U009010_S	DIST SPARE	Inventory	4" x 20" Pipe Nipple	1
U009020_S	DIST SPARE	Inventory	3-1/2" x 6" Pipe Nipple; P/N Halex 64369B	2
U009030_S	DIST SPARE	Inventory	4" x 6" Pipe Nipple; P/N Steel Supply LP NIP4.00 X 6.00 STD GALV	2
U009040_S	DIST SPARE	Inventory	4" x 10" Pipe Nipple; P/N Steel Supply LP NIP4.00 X 10.0 STD GALV	3
U009050_S	DIST SPARE	Inventory	4" x 4" Pipe Nipple; P/N Steel Supply LP NIP4.00 X 4.00 STD BLK	1
U009060_S	DIST SPARE	Inventory	4" x 3" Pipe Nipple	2
U009070_S	DIST SPARE	Inventory	3" x 18" Pipe Nipple; P/N Steel Supply LP NIP3.00 X 18.0 STD BLK	1
U009080_S	DIST SPARE	Inventory	3" x 12" Pipe Nipple; P/N Steel Supply LP NIP3.00 x 12.0 STD GALV	1
U009090_S	DIST SPARE	Inventory	3" x 8" Pipe Nipple; P/N Steel Supply LP NIP3.00 X 8.00 STD BLK	1
U009100_S	DIST SPARE	Inventory	3" x 6" Pipe Nipple; P/N Steel Supply LP NIP3.00 X 6.00 STD GALV	1
U009110_S	DIST SPARE	Inventory	2-1/2" x 9" Pipe Nipple; P/N Grainger 29VH63	1
U009120_S	DIST SPARE	Inventory	2-1/2" x 6" Pipe Nipple; P/N Steel Supply LP NIP2.50 X 6.00 STD	1
U009130_S	DIST SPARE	Inventory	2" x 4" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 4.00 STD GALV	5
U009140_S	DIST SPARE	Inventory	2" x 12" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 12.0 STD GALV	3
U009150_S	DIST SPARE	Inventory	2" x 10" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 10.0 STD GALV	4
U009160_S	DIST SPARE	Inventory	2" x 8" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 8.00 STD GALV	4
U009170_S	DIST SPARE	Inventory	2" x 6" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 6.00 STD GALV	3
U009180_S	DIST SPARE	Inventory	2-1/2" x 2-1/2" Pipe Nipple; P/N MSC Industrial Direct 62150214	3
U009190_S	DIST SPARE	Inventory	2" x 5" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 5.00 STD GALV	1
U009200_S	DIST SPARE	Inventory	1-1/2" x 10" Pipe Nipple; P/N Steel Supply LP NIP1.50 X 10.0 STD BLK	1
U009220_S	DIST SPARE	Inventory	1-1/2" x 13" Pipe Nipple; P/N MSC Industrial Direct 62151642	1
U009230_S	DIST SPARE	Inventory	1-1/2" x 4" Pipe Nipple; P/N Steel Supply LP NIP1.50 X 4.00 STD	6
U009240_S	DIST SPARE	Inventory	3" x 15" Pipe Nipple	1
U009250_S	DIST SPARE	Inventory	2" x 2" Pipe Nipple; P/N MSC Industrial Direct 36994598	1
U009260_S	DIST SPARE	Inventory	2" x 18" Pipe Nipple; P/N Steel Supply LP NIP2.00 X 18.0 STD BLK	1
U009290_S	DIST SPARE	Inventory	3/4" x 1-1/2" Pipe Nipple; P/N Steel Supply LP NIP.750 X 1.50 STD	16
U009300_S	DIST SPARE	Inventory	1" x 1-1/2" Pipe Nipple; P/N MSC Industrial Direct 62150172	2
U009310_S	DIST SPARE	Inventory	1" x 4" Pipe Nipple; P/N Steel Supply LP NIP1.00 X 4.00 STD GALV	1
U009320_S	DIST SPARE	Inventory	3/4" x 2" Pipe Nipple; P/N Steel Supply LP NIP.750 X 2.00 STD GALV	4
U009330_S	DIST SPARE	Inventory	1/2" x 5" Pipe Nipple; P/N Steel Supply LP NIP.500 X 5.00 STD GALV	4
U009340_S	DIST SPARE	Inventory	1/2" x 5-1/2" Pipe Nipple; P/N MSC Industrial Direct 36993467	1
U009350_S	DIST SPARE	Inventory	1/2" x 4" Pipe Nipple; P/N Steel Supply LP NIP.500 X 4.00 STD GALV	1
U009360_S	DIST SPARE	Inventory	1/2" x 3-1/2" Pipe Nipple; P/N Steel Supply LP NIP.500 X 3.50 STD	1
U009370_S	DIST SPARE	Inventory	1/2" x 2-1/2" Pipe Nipple; P/N Steel Supply LP NIP.500 X 2.50 STD	3
U009380_S	DIST SPARE	Inventory	1/2" x 2" Pipe Nipple; P/N Steel Supply LP NIP.500 X 2.00 STD GALV	4
U009390_S	DIST SPARE	Inventory	1/2" x 1-1/2" Pipe Nipple; P/N Steel Supply LP NIP.500 X 1.50 STD	7
U009400_S	DIST SPARE	Inventory	1/2" x 1-1/8" Pipe Nipple; P/N MSC Industrial Direct 36993376	3
U009410_S	DIST SPARE	Inventory	1/2" x 3" Pipe Nipple; P/N Steel Supply LP NIP.500 X 3.00 STD GALV	1
U009420_S	DIST SPARE	Inventory	3 1/2" x 4" Pipe Nipple; P/N Halex 64349B	2
U009430_S	DIST SPARE	Inventory	3 1/2" x 3" Pipe Nipple	2
U009440_S	DIST SPARE	Inventory	3/4" Offset Nipple; P/N Thomas & Betts HO-222	1
U009450_S	DIST SPARE	Inventory	1" Offset Nipple; P/N Thomas & Betts HO-223	1
U009510_S	DIST SPARE	Inventory	3-1/2" Chase Nipple; P/N Appleton CN-350	4
U009520_S	DIST SPARE	Inventory	3" Chase Nipple; P/N Appleton CN-300	11
U009530_S	DIST SPARE	Inventory	2-1/2" Chase Nipple; P/N Appleton CN-250	12
U009540_S	DIST SPARE	Inventory	2" Chase Nipple; P/N Appleton CN-200	8
U009550_S	DIST SPARE	Inventory	1-1/2" Chase Nipple; P/N Appleton CN-150	21
U009560_S	DIST SPARE	Inventory	1" Chase Nipple; P/N Appleton CN-100	3
U009570_S	DIST SPARE	Inventory	1-1/4" Chase Nipple; P/N Appleton CN-125	3
U009580_S	DIST SPARE	Inventory	3/4" Chase Nipple; P/N Appleton Cn-75	7
U009590_S	DIST SPARE	Inventory	1/2" Chase Nipple; P/N Appleton CN-50	4
U010000_S	DIST SPARE	Inventory	Turnlock Single Receptacle 4-Wire 20A 3-Phase 480V; P/N Pass &	1
U010010_S	DIST SPARE	Inventory	Straight Blade Receptacle 4-Wire 30A 125/250V; P/N Pass & Seymour	1
U010030_S	DIST SPARE	Inventory	Straight Blade Receptacle 4-Wire 50A 3-Pole 125/250V; P/N Pass &	1
U010040_S	DIST SPARE	Inventory	Straight Blade Receptacle 3-Wire 50A 2-Pole 250V; P/N Pass &	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U010050_S	DIST SPARE	Inventory	Straight Blade Receptacle 3-Wire 50A 3-Pole 125/250V; P/N Pass &	1
U010060_S	DIST SPARE	Inventory	Straight Blade Receptacle 3-Wire 30A 125/250V; P/N Pass & Seymour	1
U010070_S	DIST SPARE	Inventory	Straight Blade Receptacle 30A 125V NEMA 5-30; P/N Eaton 1233	1
U010080_S	DIST SPARE	Inventory	Straight Blade Receptacle 3-Wire 30A 2-Pole 250V; P/N Pass &	9
U010090_S	DIST SPARE	Inventory	Single Blade Receptacle TurnLok Locking Device 30A 250V; P/N Pass	9
U010100_S	DIST SPARE	Inventory	Single Blade Receptacle Side Wire 20A 250V; P/N Pass & Seymour	1
U010110_S	DIST SPARE	Inventory	Single Blade Receptacle Turnlok 3-Wire 15A 125V; P/N Pass &	1
U010120_S	DIST SPARE	Inventory	Single Blade Receptacle Side Wire 15A 250V; P/N Pass & Seymour	4
U010130_S	DIST SPARE	Inventory	Locking Connector 4-Wire 30A 3-Phase 480V 3-Pole; P/N Hubbell	1
U010140_S	DIST SPARE	Inventory	Turnlok Plug 4-Wire 30A 3-Phase 480V; P/N Pass & Seymour L1630P	1
U010150_S	DIST SPARE	Inventory	Twist-Lock Plug 4-Wire 30A 3-Phase 120/208V 4-Pole; P/N Hubbell	1
U010160_S	DIST SPARE	Inventory	Turnlok Connector 3-Wire 30A 125V; P/N Pass & Seymour L530C	8
U010170_S	DIST SPARE	Inventory	Turnlok Plug 3-Wire 30A 125V; P/N Pass & Seymour L530P	3
U010180_S	DIST SPARE	Inventory	Turnlok Plug 4-Wire 30A 3-Pole 125/250V; P/N Pass & Seymour	1
U010190_S	DIST SPARE	Inventory	Turnlok Connector 4-Wire 30A 125/250V; P/N Pass & Seymour	3
U010200_S	DIST SPARE	Inventory	Turnlok Plug 3-Wire 30A 250V; P/N Pass & Seymour L630P	1
U010210_S	DIST SPARE	Inventory	Turnlok Plug 3-Wire 20A 125V; P/N Pass & Seymour L520P	3
U010220_S	DIST SPARE	Inventory	TurnLok Plug 4-Wire 20A 3-Pole 125/250V; P/N Pass & Seymour	3
U010230_S	DIST SPARE	Inventory	Locking Connector 4-Wire 20A 3-Pole 125/250V; P/N Leviton 2413	2
U010240_S	DIST SPARE	Inventory	Turnlok Plug 3-Wire 20A 277V; P/N Pass & Seymour L720P	1
U010250_S	DIST SPARE	Inventory	Turnlok Connector 3-Wire 20A 250V; P/N Pass & Seymour L620C	10
U010260_S	DIST SPARE	Inventory	Turnlok Plug 4-Wire 20A 250V; P/N Pass & Seymour L120P	1
U010270_S	DIST SPARE	Inventory	Twist-Lock Connector 3-Wire 20A 3-Pole 125/250V; P/N Hubbell	3
U010280_S	DIST SPARE	Inventory	Clamp-Lock Straight Blade Plug 20A 125V; P/N Pass & Seymour	9
U010290_S	DIST SPARE	Inventory	Clamp-Lock Straight Blade Connector 20A 250V; P/N Pass & Seymour	4
U010300_S	DIST SPARE	Inventory	Connector 20A 250V; P/N Pass & Seymour PS5469X	4
U010310_S	DIST SPARE	Inventory	HD GCM Connector 15A 125V; P/N Pass & Seymour PSL515CGCM	1
U010320_S	DIST SPARE	Inventory	Twist-Lock Connector 3-Wire 10A 250V/15A 125V; P/N Hubbell	3
U010330_S	DIST SPARE	Inventory	Turnlok Connector 3-Wire 15A 250V; P/N Pass & Seymour PSL615C	3
U010340_S	DIST SPARE	Inventory	Clamp-Lock Straight Blade Plug 15A 250V; P/N Pass & Seymour	1
U010350_S	DIST SPARE	Inventory	Turnlok Connector 3-Wire 15A 277V; P/N Pass & Seymour PSL715C	1
U010360_S	DIST SPARE	Inventory	Turnlok Plug 3-Wire 15A 125V; P/N Pass & Seymour PSL515P	1
U010370_S	DIST SPARE	Inventory	Twist-Lock Plug 3-Wire 10A 250V/15A 125V 3-Pole; P/N Hubbell	1
U010380_S	DIST SPARE	Inventory	Straight Blade Connector 3-Wire 15A 2-Pole 250V; P/N Hubbell	1
U010400_S	DIST SPARE	Inventory	Hot Stick Wipes	122
U010430_S	DIST SPARE	Inventory	Sterner Lighting Fuse Cover	5
U011000_S	DIST SPARE	Inventory	500 MCM - 1/0 AWG Reducer	25
U011010_S	DIST SPARE	Inventory	500 MCM - 250 Reducer; P/N Burndy Y3429R	24
U011020_S	DIST SPARE	Inventory	500 MCM - #2 AWG Reducer	25
U011100_S	DIST SPARE	Inventory	1-1/4", Class 150, Black Pipe End Cap, 150 PSI/Threaded Connection;	2
U011110_S	DIST SPARE	Inventory	3" Meyers Hub; P/N Meyers ST8	1
U011120_S	DIST SPARE	Inventory	2-1/2" Meyers Hub; P/N Meyers ST7	2
U011130_S	DIST SPARE	Inventory	2" Meyers Hub; P/N Meyers ST6	1
U011140_S	DIST SPARE	Inventory	1-1/2" Meyers Hub; P/N Meyers ST5	2
U011150_S	DIST SPARE	Inventory	1-1/4" Meyers Hub; P/N Meyers ST4	2
U011160_S	DIST SPARE	Inventory	4-Hole 90 Bracket; P/N Fastenal 48691	21
U011170_S	DIST SPARE	Inventory	4-Hole Flat L Bracket; P/N Power-Strut PS719	6
U011180_S	DIST SPARE	Inventory	4-Hole Flat T Bracket; P/N Eaton B-Line B133	1
U011190_S	DIST SPARE	Inventory	3-Hole Half Hinge; P/N Eaton B-Line B335V-1/2	4
U011200_S	DIST SPARE	Inventory	Set-Screw Beam Clamp; P/N Eaton B-Line B613	2
U011210_S	DIST SPARE	Inventory	3/8" Square Washer Fitting; P/N Eaton B-Line B201ZN	83
U011220_S	DIST SPARE	Inventory	4-Hole 90 Bracket Green; P/N Unistrut P1325	3
U011230_S	DIST SPARE	Inventory	1/4-20 Channel Nut w/ Washer; P/N Eaton B-Line NW524	9
U011240_S	DIST SPARE	Inventory	Square Centered 4-Hole Post Base; P/N Eaton B-Line B280SQZN	5
U012250_S	DIST SPARE	Inventory	1-1/8" Cable Diameter STD Porcelain Clamp Donut; P/N Unistrut	5
U012260_S	DIST SPARE	Inventory	2-1/4" Cable Diameter STD Porcelain Clamp Donut; P/N Eaton B-Line	32
U012265_S	DIST SPARE	Inventory	2" Cable Diameter STD Porcelain Clamp Donut; P/N Eaton B-Line	18
U012270_S	DIST SPARE	Inventory	3-1/2" Cable Diameter STD Porcelain Clamp Donut; P/N Eaton B-Line	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U012280_S	DIST SPARE	Inventory	4-1/2" Cable Diameter STD Porcelain Clamp Donut; P/N Unistrut	86
U012290_S	DIST SPARE	Inventory	4-1/2" Cable Diameter Porce-A-Clamp; P/N Unistrut P1795B	13
U013000_S	DIST SPARE	Inventory	600 MCM One-Hole Lug, Aluminum; P/N Thomas & Betts 60174	22
U013100_S	DIST SPARE	Inventory	500 MCM One-Hole Lug, Aluminum; P/N Thomas & Betts 60172	5
U013200_S	DIST SPARE	Inventory	350 MCM Two-Hole Lug, Aluminum; P/N Thomas & Betts 60267	4
U013300_S	DIST SPARE	Inventory	250 MCM One-Hole Lug, Aluminum; P/N Thomas & Betts 60156	10
U013500_S	DIST SPARE	Inventory	2/0 AWG One-Hole Lug, Aluminum; P/N Thomas & Betts 60134	5
U014850_S	DIST SPARE	Inventory	2/0 AWG 2-Bolt Connector Clamp, Copper; P/N Burndy KVSU26	30
U014910_S	DIST SPARE	Inventory	350 MCM Split-Bolt Connector, Copper; P/N Blackburn 350M	11
U014920_S	DIST SPARE	Inventory	#1 AWG - 3/0 AWG Split-Bolt Connector, Copper; P/N Burndy KSU27	14
U014930_S	DIST SPARE	Inventory	250 MCM Split-Bolt Connector, Copper; P/N Burndy KSU29	20
U014940_S	DIST SPARE	Inventory	350 MCM Split-Bolt Connector, Aluminum; P/N Burndy KSA350	22
U014950_S	DIST SPARE	Inventory	800 MCM 2-Bolt Connector Clamp, Copper; P/N Blackburn 2B800	3
U015005_S	DIST SPARE	Inventory	600 MCM Mechanical Lug, Aluminum; P/N IlSCO D0899	37
U015010_S	DIST SPARE	Inventory	500-1000 MCM Mechanical Lug, Aluminum; P/N IlSCO TA-1000-2NS	33
U015020_S	DIST SPARE	Inventory	500 MCM - 4 Mechanical Lug, Aluminum; P/N CMC AB500-1	22
U015030_S	DIST SPARE	Inventory	1/0 AWG - 500 MCM Ground Clamp; P/N Hubbell TLS-62	58
U015040_S	DIST SPARE	Inventory	500 MCM - 2/0 AWG Breaker Termination Mechanical Lug; P/N	13
U015050_S	DIST SPARE	Inventory	300-800 MCM Mechanical Lug, Aluminum; P/N CMC LID2-800	13
U015300_S	DIST SPARE	Inventory	#1 AWG, 600V 2-Way Splice Connector, Aluminum; P/N Thomas &	9
U015400_S	DIST SPARE	Inventory	#6 AWG, 600V 2-Way Splice Connector, Aluminum; P/N Thomas &	7
U015750_S	DIST SPARE	Inventory	500 MCM 2-Way Splice Connector, Aluminum; P/N Thomas & Betts	16
U015850_S	DIST SPARE	Inventory	350 MCM 2-Way Splice Connector, Aluminum; P/N Burndy YS31A1	3
U015950_S	DIST SPARE	Inventory	3/0 AWG, 600V 2-Way Splice Connector, Aluminum; P/N Thomas &	4
U016510_S	DIST SPARE	Inventory	2/0 AWG Two-Hole Lug, Copper; P/N Burndy YA26-2N	5
U017060_S	DIST SPARE	Inventory	4/0 AWG Two-Hole Lug, Copper; P/N Burndy YAZV282NT38FX	7
U017070_S	DIST SPARE	Inventory	250 MCM One-Hole Lug, Copper; P/N Thomas & Betts 54113	22
U017080_S	DIST SPARE	Inventory	250 MCM Two-Hole Lug, Copper; P/N 3M 31149	45
U017090_S	DIST SPARE	Inventory	600 MCM Two-Hole Lug, Copper; P/N Burndy YA36-2N	23
U017150_S	DIST SPARE	Inventory	300 MCM One-Hole Lug, Copper; P/N Burndy YA30	6
U017200_S	DIST SPARE	Inventory	3/0 AWG, 600V Two-Hole Lug, Copper; P/N Thomas & Betts 54265	143
U017350_S	DIST SPARE	Inventory	400 MCM Two-Hole Lug, Copper; P/N Thomas & Betts 54216	26
U017650_S	DIST SPARE	Inventory	900 MCM Two-Hole Lug, Copper; P/N Thomas & Betts 54226	24
U017750_S	DIST SPARE	Inventory	1000 MCM Two-Hole Lug, Copper; P/N Burndy YA44-2N	52
U018750_S	DIST SPARE	Inventory	500 MCM 2-Way Splice Connector, Copper; P/N Penn Union BCU-050-	17
U018760_S	DIST SPARE	Inventory	900 MCM, 600V 2-Way Splice Connector, Copper; P/N Thomas &	24
U018850_S	DIST SPARE	Inventory	2/0 AWG, 600V 2-Way Splice Connector, Copper; P/N Thomas & Betts	3
U020000_S	DIST SPARE	Inventory	125A SQ D 12 Circuit Breaker Panel	1
U020020_S	DIST SPARE	Inventory	60A 240V 3-Pole, 3-Wire Non-Fusible GE General Duty Safety Switch;	1
U020030_S	DIST SPARE	Inventory	30A 600V 3-Pole, 3-Wire Fusible GE Heavy Duty Safety Switch; P/N	1
U020040_S	DIST SPARE	Inventory	100A 600V 3-Pole Non-Fusible SQ D Heavy Duty Safety Switch; P/N	1
U020050_S	DIST SPARE	Inventory	100A 600V 3-Pole Fusible GE Heavy Duty Safety Switch; P/N GE	1
U020060_S	DIST SPARE	Inventory	3' Slotted Mounting Channel; P/N Ideal Industries 89-003	23
U020070_S	DIST SPARE	Inventory	2000A 3-Pole SQ D Molded Case Circuit Breaker; P/N Square D	1
U020080_S	DIST SPARE	Inventory	30A 240V 3-Pole Non-Fusible SQ D General Duty Safety Switch; P/N	1
U020090_S	DIST SPARE	Inventory	30A 600V 3-Pole Fusible SQ D Heavy Duty Safety Switch; P/N Square	2
U020100_S	DIST SPARE	Inventory	30A 240V 3-Pole Neutral Fusible SQ D Heavy Duty Safety Switch; P/N	2
U020110_S	DIST SPARE	Inventory	60A 277V SQ D Lighting Contactor; P/N Square D 8903SPO11	1
U020120_S	DIST SPARE	Inventory	Non-Reversing Motor Starter SQ D NEMA 00 Type S	1
U020130_S	DIST SPARE	Inventory	100A 240V 3-Pole Fusible SQ D General Duty Safety Switch; P/N	1
U020140_S	DIST SPARE	Inventory	200A 240V 3-Pole, 4-Wire Eaton General Duty Safety Switch; P/N	1
U020150_S	DIST SPARE	Inventory	30A 600V 3-Pole Eaton Heavy Duty Safety Switch; P/N Eaton	4
U020160_S	DIST SPARE	Inventory	6" x 6" Hoffman Box	2
U020170_S	DIST SPARE	Inventory	24" Gutter Box	2
U020180_S	DIST SPARE	Inventory	GE Panel w/ CR106DO 110V60CY92V50CY	1
U020200_S	DIST SPARE	Inventory	TX Fans/Motors	7
U020210_S	DIST SPARE	Inventory	Switchgear Heater 120V	40
U020220_S	DIST SPARE	Inventory	150A 600V J-Line Connector 3-Wire, 4-Pole; P/N Industrial Electrical	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U020230_S	DIST SPARE	Inventory	4.16kV Fault Fitter Interrupting Module; P/N S&C 800600R2	3
U020240_S	DIST SPARE	Inventory	0.100kVA Heavy Duty Industrial Control Transformer Class 105; P/N	1
U020250_S	DIST SPARE	Inventory	Surge Protector 480/277V; P/N Advanced Protection Technologies	2
U020260_S	DIST SPARE	Inventory	125V Indicating Lamp Type ET-16; P/N GE 0116B6708G3	27
U020270_S	DIST SPARE	Inventory	125V Indicating Lamp (Colloton); P/N Westinghouse 449D187G24	7
U020280_S	DIST SPARE	Inventory	Intermediate Surge Arrester; P/N Eaton UIAA010008A0831A11	3
U020290_S	DIST SPARE	Inventory	800A GE Current Transformer (Pentacrest); P/N GE 139C4970G30	3
U020300_S	DIST SPARE	Inventory	MB-3 Mounting Bracket; P/n 3M MB-3	11
U020310_S	DIST SPARE	Inventory	MB-6 Mounting Bracket; P/N 3M MB-6	15
U020320_S	DIST SPARE	Inventory	EMS Full-Range Marker Power 1251 (Red); P/N 3M 80610221295	25
U020330_S	DIST SPARE	Inventory	EMS Mini-Marker Power 1256 (Black); P/N 3M 8061221923	26
U020340_S	DIST SPARE	Inventory	35:1 JVM-3 Potential Transformer; P/N GE 763X021018	2
U020350_S	DIST SPARE	Inventory	3kVA 120/240V SQ D Single-Phase Transformer; P/N Square D 3S1F	1
U022000_S	DIST SPARE	Inventory	15A 240V GE 2-Pole Breaker; P/N GE Industrial TEB122015	4
U022010_S	DIST SPARE	Inventory	15A 240-480V SQ D 3-Pole Breaker; P/N Square D FAL34015	3
U022020_S	DIST SPARE	Inventory	15A 240-480V SQ D 3-Pole Breaker (New); P/N Square D FAL34015	1
U022030_S	DIST SPARE	Inventory	30A 240V SQ D 3-Pole Breaker; P/N Square D EDB34030	2
U022040_S	DIST SPARE	Inventory	40A 240V GE 3-Pole Breaker; P/N GE Industrial TEB132040	1
U022050_S	DIST SPARE	Inventory	50A 240V GE Molded Case 2-Pole Breaker; P/N GE Industrial	1
U022060_S	DIST SPARE	Inventory	100A 600V SQ D 3-Pole Breaker; P/N Square D FA36100	3
U022070_S	DIST SPARE	Inventory	150A 240V SQ D 3-Pole Breaker; P/N Square D QOB3150VH	2
U022080_S	DIST SPARE	Inventory	150A 600V Cutler-Hammer 3-Pole Breaker; P/N Cutler-Hammer	2
U022090_S	DIST SPARE	Inventory	150A 600V SQ D Type KAS2 3-Pole Breaker; P/N Square D KH36150	1
U022100_S	DIST SPARE	Inventory	150A 600V SQ D Type Q2 3-Pole Breaker; P/N Square D Q236150	1
U022110_S	DIST SPARE	Inventory	175A 600V SQ D Thermal Magnetic 3-Pole Breaker (New); P/N Square	1
U022120_S	DIST SPARE	Inventory	200A 600V SQ D Type KA 3-Pole Breaker; P/N Square D KH36200G-	1
U022130_S	DIST SPARE	Inventory	400A 600V GE Spectra RMS Mag Break 3-Pole Breaker; P/N GE	1
U022140_S	DIST SPARE	Inventory	400A 600V SQ D Type LA 3-Pole Breaker; P/N Square D LA36400	1
U022150_S	DIST SPARE	Inventory	400A 600V Cutler-Hammer Series C Breaker; P/N Cutler-Hammer	1
U022160_S	DIST SPARE	Inventory	800A 600V GE Spectra RMS 3-Pole Breaker; P/N GE SKLA36AT0800	2
U022200_S	DIST SPARE	Inventory	GE Size 3 Magnetic Coils; P/N GE 55-501336G002	1
U022210_S	DIST SPARE	Inventory	Current Transformer 1200:5A; P/N Abbott Magnetic Corp. 806-122	3
U022230_S	DIST SPARE	Inventory	GE Close Latch Model Kit; P/N GE 0177C2022G002	4
U022300_S	DIST SPARE	Inventory	14.4kV SML-20 Fuse-Unit End Fitting; P/N S&C 3097	6
U023000_S	DIST SPARE	Inventory	20A 1-Pole 22kA SQ D Mini Bolt-On Breaker; P/N Square D	16
U023010_S	DIST SPARE	Inventory	20A 1-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO120	1
U023020_S	DIST SPARE	Inventory	20A 3-Pole 10kA SQ D Mini Bolt-On Breaker; P/N Square D QOB320	4
U023030_S	DIST SPARE	Inventory	60A 3-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO360	1
U023040_S	DIST SPARE	Inventory	20A 3-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO320	2
U023050_S	DIST SPARE	Inventory	15A 3-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO315	2
U023060_S	DIST SPARE	Inventory	30A 3-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO330	2
U023070_S	DIST SPARE	Inventory	50A 3-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO350	1
U023080_S	DIST SPARE	Inventory	100A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO2100	1
U023090_S	DIST SPARE	Inventory	70A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO270	1
U023100_S	DIST SPARE	Inventory	15A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO215	2
U023110_S	DIST SPARE	Inventory	20A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO220	7
U023120_S	DIST SPARE	Inventory	10A 2-Pole 10kA SQ D Mini Bolt-On Breaker; P/N Square D QOB210	4
U023130_S	DIST SPARE	Inventory	10A 3-Pole 10kA SQ D Mini Bolt-On Breaker; P/N Square D QOB310	2
U023140_S	DIST SPARE	Inventory	50A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO250	2
U023150_S	DIST SPARE	Inventory	60A 2-Pole 10kA SQ D Mini Snap-In Breaker; P/N Square D QO260	2
U023160_S	DIST SPARE	Inventory	20A 2-Pole Powerlink ECB Breaker; P/N Schneider Electric	4
U023170_S	DIST SPARE	Inventory	20A 1-Pole 10kA 120V Ground Fault Bolt-On Breaker; P/N	3
U023180_S	DIST SPARE	Inventory	30A 1-Pole 10kA GE Bolt-On Breaker; P/N GE THQB1130	3
U023190_S	DIST SPARE	Inventory	25A 1-Pole 10kA GE Bolt-On Breaker; P/N GE THQB1125	5
U023200_S	DIST SPARE	Inventory	20A 1-Pole 10kA GE Bolt-On Breaker; P/N GE THQB1120	10
U023210_S	DIST SPARE	Inventory	20A 1-Pole 10kA GE Snap-In Breaker; P/N GE THQL1120	6
U023220_S	DIST SPARE	Inventory	15A 1-Pole 10kA GE Bolt-On Breaker; P/N GE THQB1115	1
U023230_S	DIST SPARE	Inventory	15A 1-Pole 10kA GE Snap-In Breaker; P/N GE THQL1115	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U023240_S	DIST SPARE	Inventory	40A 2-Pole 10kA GE Snap-In Breaker; P/N GE THQL2140	4
U023250_S	DIST SPARE	Inventory	20A 2-Pole 10kA GE Bolt-On Breaker; P/N GE THQB2120	2
U023260_S	DIST SPARE	Inventory	20A 2-Pole 10kA GE Snap-In Breaker; P/N GE THQL2120	1
U023270_S	DIST SPARE	Inventory	15A 2-Pole 10kA GE Bolt-On Breaker; P/N GE THQB2115	4
U023280_S	DIST SPARE	Inventory	100A 3-Pole 10kA GE Bolt-On Breaker; P/N GE THQB32100	3
U023290_S	DIST SPARE	Inventory	30A 3-Pole 10kA GE Bolt-On Breaker; P/N GE THQB312030	3
U023300_S	DIST SPARE	Inventory	20A 3-Pole 10kA GE Bolt-On Breaker; P/N GE THQB321020	5
U023310_S	DIST SPARE	Inventory	15A 3-Pole 10kA GE Bolt-On Breaker; P/N GE THQB321015	5
U023320_S	DIST SPARE	Inventory	30A 3-Pole 10kA Siemens Bolt-On Breaker; P/N Siemens B330	13
U023330_S	DIST SPARE	Inventory	15A 1-Pole 10kA Siemens Snap-In Breaker; P/N Siemens 3CNE8	1
U023340_S	DIST SPARE	Inventory	20A 1-Pole 10kA Cutler-Hammer Bolt-On Breaker; P/N cutler-Hammer	1
U023350_S	DIST SPARE	Inventory	30A 2-Pole 10kA Allen-Bradley Breaker; P/N Allen-Bradley 1492-CB2-	1
U025000_S	DIST SPARE	Inventory	Fuse FRS-R-100 600V 100A	3
U025010_S	DIST SPARE	Inventory	Fuse IDSR-40 600V 40A	1
U025020_S	DIST SPARE	Inventory	Fuse FRS-R-40 600V 40A	6
U025030_S	DIST SPARE	Inventory	Fuse FRS-R-60 600V 60A	3
U025040_S	DIST SPARE	Inventory	Fuse FRS-R-15 600V 15A	22
U025060_S	DIST SPARE	Inventory	Fuse FRS-R-20 600V 20A	21
U025070_S	DIST SPARE	Inventory	Fuse FRS-R-30 600V 30A	5
U025080_S	DIST SPARE	Inventory	Fuse FLSR-30 600V 30A	2
U025090_S	DIST SPARE	Inventory	Fuse FRS-15 600V 15A	1
U025100_S	DIST SPARE	Inventory	Fuse FLSR-10 600V 10A	2
U025110_S	DIST SPARE	Inventory	Fuse FRS-R-10 600V 10A	1
U025120_S	DIST SPARE	Inventory	Fuse FRS-R-2 1/4 600V 2 1/4A	3
U025130_S	DIST SPARE	Inventory	Fuse FRS-R-3 2/10 600V 3 2/10A	2
U025140_S	DIST SPARE	Inventory	Fuse FRS-R-6/10 600V 6/10A	9
U025150_S	DIST SPARE	Inventory	Fuse FRS-R-50 600V 50A	3
U025160_S	DIST SPARE	Inventory	Fuse FRS-R-6 1/4 600V 6 1/4A	38
U025170_S	DIST SPARE	Inventory	Fuse FRN-200 250V 200A	8
U025190_S	DIST SPARE	Inventory	Fuse FLNR-200 250V 200A	14
U025200_S	DIST SPARE	Inventory	Fuse FRN-175 250V 175A	4
U025210_S	DIST SPARE	Inventory	Fuse FRN-R-200 250V 200A	6
U025220_S	DIST SPARE	Inventory	Fuse FRN-150 250V 150A	3
U025230_S	DIST SPARE	Inventory	Fuse FRN-R-400 250V 400A	5
U025240_S	DIST SPARE	Inventory	Fuse FRN-400 250V 400A	2
U025250_S	DIST SPARE	Inventory	Fuse FLNR-400 250V 400A	3
U025260_S	DIST SPARE	Inventory	Fuse FRNR-100 250V 100A	4
U025270_S	DIST SPARE	Inventory	Fuse FLNR-100 250V 100A	4
U025280_S	DIST SPARE	Inventory	Fuse FLNR-300 250V 300A	3
U025290_S	DIST SPARE	Inventory	Fuse FRN-600 250V 600A	10
U025300_S	DIST SPARE	Inventory	Fuse FRN-R-600 250V 600A	3
U025310_S	DIST SPARE	Inventory	Fuse FLNR-600 250V 600A	3
U025320_S	DIST SPARE	Inventory	Fuse FRS-R-250 600V 250A	3
U025330_S	DIST SPARE	Inventory	Fuse FLSR-150 600V 150A	3
U025340_S	DIST SPARE	Inventory	Fuse FLS-R-200 600V 200A	9
U025350_S	DIST SPARE	Inventory	Fuse FRSR-400 600V 400A	11
U025360_S	DIST SPARE	Inventory	FRS-400 600V 400A	5
U025370_S	DIST SPARE	Inventory	Fuse FRS-R-600 600V 600A	8
U025400_S	DIST SPARE	Inventory	Fuse IDSR-20 600V 20A	3
U025410_S	DIST SPARE	Inventory	Fuse IDSR-15 600V 15A	4
U025420_S	DIST SPARE	Inventory	Fuse IDSR-30 600V 30A	2
U025430_S	DIST SPARE	Inventory	Fuse IDSR-10 600V 10A	3
U025440_S	DIST SPARE	Inventory	Fuse IDSR-50 600V 50A	1
U025450_S	DIST SPARE	Inventory	Fuse IDSR-125 600V 125A	6
U025460_S	DIST SPARE	Inventory	Fuse IDSR-200 600V 200A	3
U025470_S	DIST SPARE	Inventory	Fuse IDSR-400 600V 400A	8
U025480_S	DIST SPARE	Inventory	Fuse IDSR-600 600V 600A	3
U025500_S	DIST SPARE	Inventory	Fuse JKS-10 600V 10A	19

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U025510_S	DIST SPARE	Inventory	Fuse A4J6 600V 6A	1
U025520_S	DIST SPARE	Inventory	Fuse JHC-15 600V 15A	1
U025530_S	DIST SPARE	Inventory	Fuse JKS-25 600V 25A	8
U025540_S	DIST SPARE	Inventory	Fuse A4J10 600V 20A	6
U025550_S	DIST SPARE	Inventory	Fuse TRS 35 R 600V 35A	3
U025560_S	DIST SPARE	Inventory	Fuse NON-200 250V 200A	13
U025570_S	DIST SPARE	Inventory	Fuse ECO-200 250V 200A	1
U025580_S	DIST SPARE	Inventory	Fuse TR-200 250V 200A	1
U025590_S	DIST SPARE	Inventory	Fuse NON-600 250V 600A	3
U025600_S	DIST SPARE	Inventory	Fuse LLSRK-225 600V 225A	3
U025610_S	DIST SPARE	Inventory	Fuse Gould A70P300-4 700V 300A	6
U025620_S	DIST SPARE	Inventory	Fuse KTS-500 600V 500A	3
U025630_S	DIST SPARE	Inventory	Fuse KTS-400 600V 400A	3
U025650_S	DIST SPARE	Inventory	NOS-400 600V 400A	2
U025660_S	DIST SPARE	Inventory	Fuse KLPC-800 600V 800A	2
U025670_S	DIST SPARE	Inventory	Fuse KRP-C-601 600V 601A	3
U025680_S	DIST SPARE	Inventory	Fuse KRP-C-1000 600V 1000A	3
U025690_S	DIST SPARE	Inventory	Fuse KLPC-1200 600V 1200A	3
U025700_S	DIST SPARE	Inventory	Fuse KRP-C-1200 600V 1200A	3
U025710_S	DIST SPARE	Inventory	Fuse KLPC 1100 600V 1100A	14
U025720_S	DIST SPARE	Inventory	Fuse KRP-C-1100 600V 1100A	3
U025730_S	DIST SPARE	Inventory	Fuse 1200A 600V	6
U025740_S	DIST SPARE	Inventory	Fuse 1100A 600V	13
U025800_S	DIST SPARE	Inventory	7.5kV 150E SM-4 Refill Unit; P/N S&C 121250R4 TCC 153-4	3
U025805_S	DIST SPARE	Inventory	14.4kV 150E SM-4 Refill Unit; P/N S&C 122250R4 TCC 153-4	12
U025810_S	DIST SPARE	Inventory	15.5kV Size B 2E Fuse; P/N Ferraz Shawmut 9F60BHH002	5
U025820_S	DIST SPARE	Inventory	15.5kV Size B 1E Fuse; P/N Ferraz Shawmut 9F60BHH001	6
U025830_S	DIST SPARE	Inventory	15.5kV Size B .5E Fuse; P/N Ferraz Shawmut 9F60BHH905	3
U025840_S	DIST SPARE	Inventory	8.25kV Size B 1E Fuse; P/N Ferraz Shawmut 9F60BDE001	1
U025850_S	DIST SPARE	Inventory	4.8kV .5E Fuse; P/N Westinghouse 677C452G01	4
U025860_S	DIST SPARE	Inventory	8.25kV 3A Mersen Fuse; P/N Mersen 9F60BDE003	5
U025870_S	DIST SPARE	Inventory	15.5kV 1A Mersen Fuse; P/N Mersen 9F60BHH001	2
U025880_S	DIST SPARE	Inventory	4.8kV .5E S&C Fusistor Fuse; P/N S&C 270000 TCC 159-9	2
U025890_S	DIST SPARE	Inventory	7.2kV .5E S&C Fusistor Fuse; P/N S&C 271000 TCC 159-9	1
U025900_S	DIST SPARE	Inventory	14.4kV .5E S&C Fusistor Fuse; P/N S&C 272000 TCC 159-9	6
U025910_S	DIST SPARE	Inventory	14.4/17kV 15E S&C SMU-20 Fuse; P/N S&C 612015 TCC 153-2	6
U025920_S	DIST SPARE	Inventory	14.4/17kV 20E S&C SMU-20 Fuse; P/N S&C 612020 TCC 153-2	2
U025930_S	DIST SPARE	Inventory	14.4/17kV 30E S&C SMU-20 Fuse; P/N S&C 712030 TCC 119-2	10
U025940_S	DIST SPARE	Inventory	14.4kV 50A S&C SMU-20 Fuse; P/N S&C 712050 TCC 119-2	18
U025950_S	DIST SPARE	Inventory	14.4kV 50A S&C SMU-20 Fuse; P/N S&C 612050 TCC 153-2	25
U025960_S	DIST SPARE	Inventory	14.4/17kV 100E S&C SMU-20 Fuse; P/N S&C 612100 TCC 153-2	11
U025970_S	DIST SPARE	Inventory	14.4/17kV 100E S&C SMU-20 Fuse; P/N S&C 712100 TCC 119-2	5
U025980_S	DIST SPARE	Inventory	14.4kV 125E S&C SMU-20 Fuse; P/N S&C 612125 TCC 153-2	3
U025990_S	DIST SPARE	Inventory	14.4/17kV 150E S&C SMU-20 Fuse; P/N S&C 612150 TCC 153-2	10
U026000_S	DIST SPARE	Inventory	14.4/17kV 400E S&C SMU-40 Fuse; P/N S&C 822400	3
U026010_S	DIST SPARE	Inventory	5.5kV 150E GE Fuse (Used); P/N GE 6193406618	6
U026020_S	DIST SPARE	Inventory	13.8kV 50E ITE Fuse (Used); P/N ITE 427548	3
U026030_S	DIST SPARE	Inventory	14.4kV 0.5E GE Fuse (Used); P/N GE 272000	4
U026040_S	DIST SPARE	Inventory	5.5kV 0.5E GE Fuse (Used); P/N GE 9F60BB0905	4
U026050_S	DIST SPARE	Inventory	Fused Fault Limiter Type FFL-1; P/N S&C 70003R2	2
U027000_S	DIST SPARE	Inventory	SMU-20 S&C 14.4kV 80E Silencer TCC 153-1	3
U027010_S	DIST SPARE	Inventory	SMU-20 S&C 14.4kV 65E Silencer TCC 153-2	3
U027020_S	DIST SPARE	Inventory	SMU-20 S&C 14.4kV 50E Silencer TCC 153-1	6
U027030_S	DIST SPARE	Inventory	SMU-20 S&C 14.4kV 40E Silencer TCC 153-1	6
U027040_S	DIST SPARE	Inventory	SMU-20 S&C 14.4kV 10E Silencer TCC 153-2	3
U027050_S	DIST SPARE	Inventory	7.2-8.25kV 200E S&C Silencer; P/N S&C 8661R2	3
U027060_S	DIST SPARE	Inventory	14.4kV 200E S&C Silencer; P/N S&C 86632R1	3
U029010_S	DIST SPARE	Inventory	Beam Clamp Small 15/16" Jaw Opening; P/N Garvin BC-1420-SS	28

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U029020_S	DIST SPARE	Inventory	Beam Clamp Large 1-3/8" Jaw Opening; P/N Garvin MBC-1213	9
U029100_S	DIST SPARE	Inventory	Pulling Elbow 90 Set-Screw 1/2"; P/N Appleton THL-500	7
U029110_S	DIST SPARE	Inventory	Pulling Elbow 90 Rigid 1/2"; P/N Garvin PE-50	2
U029120_S	DIST SPARE	Inventory	Pulling Elbow 90 3/4"; P/N Garvin PE-75	3
U030000_S	DIST SPARE	Inventory	73W LED Exec 20 Fixtures (New); P/N Cooper Lighting LDRC-T2-B03-	1
U030010_S	DIST SPARE	Inventory	95W LED Exec 20 Fixtures (New); P/N Cooper Lighting LDRV-SL2-	1
U030020_S	DIST SPARE	Inventory	Large Wall Pack Fixture (New)	1
U030030_S	DIST SPARE	Inventory	250W HPS Bronze Fixture (New)	8
U030040_S	DIST SPARE	Inventory	Dual-Lite Battery Type; P/N Hubbell 120255	1
U030050_S	DIST SPARE	Inventory	Massuse Relay ME-15M	1
U030060_S	DIST SPARE	Inventory	Flat Glass Shields for Cobra Head	7
U030070_S	DIST SPARE	Inventory	Refracted Glass Shields for Cobra Head	12
U030080_S	DIST SPARE	Inventory	250MC Grille Fixtures (New)	2
U030090_S	DIST SPARE	Inventory	Intermatic Electronic Timer; P/N Intermatic T101	3
U030110_S	DIST SPARE	Inventory	AC Magnetic NEMA Size 0 Starter; P/N Schneider Electric	1
U030120_S	DIST SPARE	Inventory	ABB Contactor EH 250; P/N ABB EH 250	2
U030130_S	DIST SPARE	Inventory	7W CFL 2-Pin Magnetic Ballast; P/N Robertson S7927P/A	3
U030140_S	DIST SPARE	Inventory	2-Hole Lamp Mount; P/N Gaynor 1181-9-2H	10
U030150_S	DIST SPARE	Inventory	Rustoleum Metal Finish Spray Paint	2
U030160_S	DIST SPARE	Inventory	Insect Repellent Wipe; P/N Scrubs 91401	30
U030180_S	DIST SPARE	Inventory	Polyurethane Foam Sealant	3
U030190_S	DIST SPARE	Inventory	77W LED Driver; P/N Philips Advance LEDINTA20024V32FO	16
U030200_S	DIST SPARE	Inventory	LED Surge Protectors; P/N Cooper Crouse-Hinds LS10-347V-S	7
U030210_S	DIST SPARE	Inventory	Fluorescent High Bay Fixture; P/N Philips Day-Brite FBF654HO-UNV-	1
U031020_S	DIST SPARE	Inventory	Capacitor 35F, 60Hz, 280V	1
U031030_S	DIST SPARE	Inventory	Capacitor 29F, 50/60Hz, 280V	1
U031050_S	DIST SPARE	Inventory	Capacitor 27F	1
U031060_S	DIST SPARE	Inventory	Capacitor 24F, 60Hz, 330V	1
U031080_S	DIST SPARE	Inventory	Capacitor 20F, 60Hz, 330V	1
U031110_S	DIST SPARE	Inventory	Capacitor 14F, 300V	1
U031130_S	DIST SPARE	Inventory	Capacitor 10F, 50/60Hz, 330V	1
U032100_S	DIST SPARE	Inventory	50W HPS Core-Coil Ballast; P/N Philips Advance 71A7807-500D	1
U032110_S	DIST SPARE	Inventory	50W HPS F-Can Ballast; P/N Philips Advance 72C7884-NP-001	4
U032120_S	DIST SPARE	Inventory	100W MH F-Can Ballast; P/N Universal 11210-239-C-TC	2
U032130_S	DIST SPARE	Inventory	150W HPS F-Can Ballast; P/N Philips Advance 72C28185-P	4
U032140_S	DIST SPARE	Inventory	250W MV or MH F-Can Ballast; P/N Philips Advance 72C5782-NP-001	1
U032200_S	DIST SPARE	Inventory	Fluorescent Sockets	12
U032210_S	DIST SPARE	Inventory	Mogel Sockets	14
U032220_S	DIST SPARE	Inventory	Medium Sockets	5
U032230_S	DIST SPARE	Inventory	Socket Reducers; P/N Leviton 8681	15
U032240_S	DIST SPARE	Inventory	Porcelain Sockets; P/N Satco 90-445	10
U032250_S	DIST SPARE	Inventory	Double Fuse Holder; P/N Ferraz Shawmut FEY-11-11	6
U032260_S	DIST SPARE	Inventory	Large Wire Fuse Holder; P/N Littelfuse LEBAYC	3
U032280_S	DIST SPARE	Inventory	Inline Fuse Holder; P/N Littelfuse LEBAAK	2
U032500_S	DIST SPARE	Inventory	100W MH Electronic Ballast; P/N Philips Advance IMH-100-D-LF	1
U032510_S	DIST SPARE	Inventory	70W MH Electronic Ballast; P/N Philips Advance IMH-70-D-LF	1
U032520_S	DIST SPARE	Inventory	39W MH Electronic Ballast; P/N Philips Advance IMH-39-G-LF	4
U032530_S	DIST SPARE	Inventory	Triad (2-3) T8 Electronic Ballast; P/N Universal Triad B332IUNVHP-A	1
U032540_S	DIST SPARE	Inventory	GE (2) T12 Electronic Ballast; P/N GE Lighting GE240PS-MV-N	2
U032550_S	DIST SPARE	Inventory	Emergency Fluorescent Ballast; P/N Philips Bodine B94CGREDM	1
U032560_S	DIST SPARE	Inventory	Advance 158W Magnetic Ballast; P/N Philips Advance R-2E75-S-TP	1
U032570_S	DIST SPARE	Inventory	Triad (1-2) T8 Electronic Ballast; P/N Universal Triad B232IUNV-	8
U032580_S	DIST SPARE	Inventory	Advance (2) T12 Magnetic Ballast; P/N Philips Advance LO-13-22	2
U032590_S	DIST SPARE	Inventory	Advance (4-6) T12 Magnetic Ballast; P/N Philips Advance ASB-2448-46	1
U032600_S	DIST SPARE	Inventory	50W HPS Postline Ballast 12"; P/N Philips Advance 74P7803-011-P	2
U032605_S	DIST SPARE	Inventory	50W HPS Postline Ballast 7"; P/N Philips Advance 74P7802-011	1
U032610_S	DIST SPARE	Inventory	100W HPS Postline Ballast 12"; P/N Philips Advance 74P8002-011	11
U032630_S	DIST SPARE	Inventory	70W HPS Postline Ballast 12"; P/N Philips Advance 74P7903-011-P	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U032640_S	DIST SPARE	Inventory	100W MV Postline Ballast 12"; P/N Philips Advance 74P2802-011	1
U032645_S	DIST SPARE	Inventory	100W MV Postline Ballast 17.5"; P/N Philips Advance 74P2803-011	1
U032700_S	DIST SPARE	Inventory	150W HPS Autotransformer Ballast; P/N Philips Advance 71A8102	2
U032770_S	DIST SPARE	Inventory	Advance 13W (1 or 2) CFL Ballast; P/N Philips Advance ICF-2S13-H1-	3
U032780_S	DIST SPARE	Inventory	70W MH Core-Coil Ballast Pulse Start; P/N Philips Advance 71A5292-	1
U032785_S	DIST SPARE	Inventory	70W HPS Core-Coil Ballast; P/N Philips Advance 71A7907-600B	4
U032800_S	DIST SPARE	Inventory	100W HPS Core-Coil Ballast Pulse Start; P/N GE Lighting	6
U032805_S	DIST SPARE	Inventory	100W MH Core-Coil Ballast Pulse Start; P/N Philips Advance 71A5390-	1
U032810_S	DIST SPARE	Inventory	250W MH Core-Coil Ballast Pulse Start; P/N Philips Advance 71A5792-	2
U032815_S	DIST SPARE	Inventory	250W MH Core-Coil Ballast Probe Start; P/N Philips Advance 71A5750-	2
U032820_S	DIST SPARE	Inventory	400W MH Core-Coil Ballast Pulse Start; P/N Philips Advance 71A6092-	3
U032830_S	DIST SPARE	Inventory	150W HPS Core-Coil Ballast; P/N Keystone HPS-150R-1	3
U032840_S	DIST SPARE	Inventory	200W HPS Core-Coil Ballast; P/N Philips Advance 71A8970-001D	2
U032900_S	DIST SPARE	Inventory	250W HPS Weatherproof Ballast (New); P/N 79W8291-001	2
U033010_S	DIST SPARE	Inventory	250W MH Mogul Base Bulb Non-Pulse Start M58; P/N Lumapro	11
U033100_S	DIST SPARE	Inventory	12W LED Lamp, Medium Screw Bulb; P/N GE Lighting	4
U033130_S	DIST SPARE	Inventory	54W HID Replacement LED 5000K Mogul Base Bulb; P/N Keystone KT-	28
U033140_S	DIST SPARE	Inventory	80W HID Replacement LED 5000K Mogul Base Bulb; P/N Keystone KT-	2
U033150_S	DIST SPARE	Inventory	80W HID Replacement LED 4000K Mogul Base Bulb; P/N Keystone KT-	2
U033160_S	DIST SPARE	Inventory	20 LED Area Luminaire Arm Mount; P/N Cree Lighting ARE-SLM66-	2
U033170_S	DIST SPARE	Inventory	30 LED Area Luminaire Arm Mount; P/N Cree Lighting ARE-SLM66-	2
U033200_S	DIST SPARE	Inventory	70W Ceramic Metal Halide ED17 4200K Bulb; P/N Philips Lighting	20
U033210_S	DIST SPARE	Inventory	50W Ceramic Metal Halide ED17 4200K Bulb; P/N Philips Lighting	7
U033220_S	DIST SPARE	Inventory	70W MH Medium Base Flood Bulb; P/N Philips Lighting 222497	4
U033230_S	DIST SPARE	Inventory	400W MH Mogul Base Bulb Non-Pulse Start; P/N GE Lighting 18904	1
U033240_S	DIST SPARE	Inventory	400W MH Mogul Base Bulb; P/N GE Lighting 78666	8
U033260_S	DIST SPARE	Inventory	175W MH Mogul Base Bulb Pulse Start; P/N Eiko 49193	6
U033270_S	DIST SPARE	Inventory	100W MH Mogul Base Bulb Pulse Start; P/N Philips Lighting 430702	6
U033280_S	DIST SPARE	Inventory	175W MH Medium Base Bulb; P/N Sylvania 64479	1
U033310_S	DIST SPARE	Inventory	100W MH Medium Base Bulb; P/N Philips Lighting 429886	7
U033400_S	DIST SPARE	Inventory	23W CFL Medium Base Bulb; P/N Lumapro 2CUW1	1
U033410_S	DIST SPARE	Inventory	9W 2-Pin CFL Bulb; P/N Philips Lighting 148676	6
U033420_S	DIST SPARE	Inventory	7W 2-Pin CFL Bulb; P/N Philips Lighting 148718	9
U033430_S	DIST SPARE	Inventory	13W 2-Pin Double CFL Bulb; P/N Sylvania 20691	1
U033440_S	DIST SPARE	Inventory	13W 2-Pin CFL Bulb; P/N Philips Lighting 20691	2
U033450_S	DIST SPARE	Inventory	13W 4-Pin CFL Bulb; P/N Philips Lighting 383281	1
U033460_S	DIST SPARE	Inventory	18W 2-Pin CFL Bulb; P/N Philips Lighting 383166	1
U033470_S	DIST SPARE	Inventory	26W 4-Pin CFL Bulb; P/N Philips Lighting 458273	1
U033480_S	DIST SPARE	Inventory	22W 2-Pin CFL Bulb; P/N Philips Lighting 241687	33
U033490_S	DIST SPARE	Inventory	32W 4-Pin CFL Bulb; P/N Philips Lighting 458307	3
U033500_S	DIST SPARE	Inventory	25W SLS CFL Bulb; P/N Philips Lighting SLS25W	1
U033510_S	DIST SPARE	Inventory	13W Medium Base Mini Twist CFL Bulb; P/N Sylvania 29409	2
U033600_S	DIST SPARE	Inventory	100W Medium Screw HPS Cernalux Bulb; P/N Philips Lighting	1
U033610_S	DIST SPARE	Inventory	150W Medium Screw HPS Cernalux Bulb; P/N Philips Lighting	1
U033620_S	DIST SPARE	Inventory	70W Medium Screw HPS Cernalux Bulb; P/N Philips Lighting	2
U033630_S	DIST SPARE	Inventory	50W Medium Screw HPS Bulb; P/N GE Lighting 11345	12
U033640_S	DIST SPARE	Inventory	250W HPS Mogul Base Bulb; P/N GE Lighting 85377	6
U033645_S	DIST SPARE	Inventory	400W HPS Mogul Base Bulb; S51, P/N GE Lighting 85379	5
U033650_S	DIST SPARE	Inventory	200W HPS Mogul Base Bulb; P/N GE Lighting 85372	12
U033670_S	DIST SPARE	Inventory	70W HPS Mogul Base Bulb; P/N Philips Lighting C70S62-2	7
U033710_S	DIST SPARE	Inventory	400W MV Mogul Base Bulb; P/N Eiko HG33GL-400/DX (Discontinued)	9
U033730_S	DIST SPARE	Inventory	175W MV Mogul Base Bulb; P/N GE Lighting 26439	47
U033740_S	DIST SPARE	Inventory	100W MV Mogul Base Bulb; P/N GE Lighting 22575	14
U033800_S	DIST SPARE	Inventory	35W/830 1CT 2 Pin Bulb; P/N Philips Lighting 9.28083E+11	11
U033810_S	DIST SPARE	Inventory	250W Halogen Bayonet Bulb; P/N Sylvania 58720	13
U033820_S	DIST SPARE	Inventory	Library Up Light	1
U033830_S	DIST SPARE	Inventory	500W Halogen Rough Service Bulb; P/N Feit Electric	4
U033840_S	DIST SPARE	Inventory	39W Metalarc Powerball Bulb; P/N Sylvania MCP39PAR20/U/830/SP	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U033850_S	DIST SPARE	Inventory	39W PAR20 Halogen Flood Bulb; P/N Sylvania 39PAR20/HAL/FL30	1
U033860_S	DIST SPARE	Inventory	55W PAR30S Halogen Reflector WFL40 Bulb; P/N Philips Lighting	1
U033870_S	DIST SPARE	Inventory	500W T3 Halogen Bulb; P/N Warnertool P10174	2
U033880_S	DIST SPARE	Inventory	75W Shatter Resistant Bulb; P/N GE Lighting 46895	1
U033890_S	DIST SPARE	Inventory	18W Dimmable Bulb; P/N Philips Lighting 294429	1
U033900_S	DIST SPARE	Inventory	60W Rough Service Bulb; P/N Satco S4882	2
U033910_S	DIST SPARE	Inventory	150W Icetron T17 Bulb; P/N Sylvania ICE150/850/2P/ECO	3
U033920_S	DIST SPARE	Inventory	200W Round Tube Induction Bulb	2
U033930_S	DIST SPARE	Inventory	New Grille Light (Old Style)	2
U038100_S	DIST SPARE	Inventory	97W LED Ridgeview Cobra Head; P/N Cooper Lighting LDRV-T4-E04-	1
U038110_S	DIST SPARE	Inventory	124W LED Cobra Head; P/N Cooper Lighting LDRL-T3-B05-E-BZ-LCF	3
U038120_S	DIST SPARE	Inventory	LED Cobra Head (Used); P/N Cooper Lighting LDRL-T3-E05-E-BK	5
U038130_S	DIST SPARE	Inventory	LED Recessed Fixture 2x4; P/N Cree LightingCR24-40L-35K-10V	2
U038140_S	DIST SPARE	Inventory	129W LED Cobra Head; P/N Cooper Lighting LDRL-T3-A05-E-BZ-LCF	1
U038145_S	DIST SPARE	Inventory	149W LED Bronze Cobra Head; P/N Cooper Lighting LDRL-T3-E06-E-	2
U038200_S	DIST SPARE	Inventory	100W Metal Halide Pulse Start Bulb; P/N Philips Lighting	12
U038210_S	DIST SPARE	Inventory	250W MH Cobra Head (Old Style); P/N Cooper Lighting MPRY-FL-3-	5
U038220_S	DIST SPARE	Inventory	250W MH 277V Flat Glass Cobra Head (Used); P/N Cooper Lighting	4
U038230_S	DIST SPARE	Inventory	250W MH 120V Flat Glass Cobra Head (Used); P/N Cooper Lighting	15
U038310_S	DIST SPARE	Inventory	250W HPS Glass Refractor Cobra Head; P/N Cooper Lighting HPRY-	2
U038320_S	DIST SPARE	Inventory	250W HPS Cobra Head (Old Style); P/N Cooper Lighting	2
U038330_S	DIST SPARE	Inventory	200W HPS Cobra Head (Old Style); P/N Cooper Lighting	1
U038340_S	DIST SPARE	Inventory	150W HPS Glass Refractor Cobra Head (Used); P/N Cooper Lighting	2
U038350_S	DIST SPARE	Inventory	250W HPS Flat Glass Cobra Head (Used); P/N Cooper Lighting	2
U038360_S	DIST SPARE	Inventory	250W HPS Cobra Head; P/N Cooper Lighting OVF25SWW2DBZ	7
U038370_S	DIST SPARE	Inventory	150W HPS Cobra Head; P/N American Electric Lighting 115-15S-RH-	3
U038750_S	DIST SPARE	Inventory	97W LED Exec 20 Fixtures (New); P/N Cooper Lighting LDRV-T3-E04-	11
U038802_S	DIST SPARE	Inventory	Globe Light Cover	1
U038810_S	DIST SPARE	Inventory	Globe Light Base w/ Slipfitter	2
U038820_S	DIST SPARE	Inventory	Plastic Light Cover	1
U038830_S	DIST SPARE	Inventory	Globe Light Base w/ Socket	11
U039000_S	DIST SPARE	Inventory	Slipfitter Arms (New)	6
U039005_S	DIST SPARE	Inventory	Slipfitter Arms (Old)	4
U039010_S	DIST SPARE	Inventory	LED Bracket	3
U039020_S	DIST SPARE	Inventory	Globe Mounts	5
U039030_S	DIST SPARE	Inventory	Assorted Slipfitter Caps	20
U039040_S	DIST SPARE	Inventory	Slipfitter w/ Arm	7
U039050_S	DIST SPARE	Inventory	Globe Slipfitters	8
U039060_S	DIST SPARE	Inventory	Cluster Arms	6
U039065_S	DIST SPARE	Inventory	Assorted Exec 20 Parts	10
U039070_S	DIST SPARE	Inventory	Exec 20 150W HPS Guts (New Pin)	9
U039080_S	DIST SPARE	Inventory	Exec 20 150W HPS Guts (Old Pin)	16
U039090_S	DIST SPARE	Inventory	Exec 20 Shell, Slipfitter, & Guts	7
U039100_S	DIST SPARE	Inventory	Exec 20 Shell and Slipfitter	2
U039110_S	DIST SPARE	Inventory	Exec 20 Shell	1
U039120_S	DIST SPARE	Inventory	Assorted Rectangle Pole Covers	32
U039130_S	DIST SPARE	Inventory	Assorted Round Pole Covers	12
U048090_S	DIST SPARE	Inventory	Twistlock Shorting Cap; P/N Outdoor Lighting Controls S1039	21
U048650_S	DIST SPARE	Inventory	Photoeye Button	1
U065010_S	DIST SPARE	Inventory	4" Porcelain Cable Channel Saddle; P/N Eaton B-Line B4051	23
U070920_S	DIST SPARE	Inventory	14" HD Cable Rack Arm; P/N Underground Devices Inc. RA14	8
U070930_S	DIST SPARE	Inventory	20" HD Cable Rack Arm; P/N Underground Devices Inc. RA20	21
U072000_S	DIST SPARE	Inventory	Quazite Splice Box Cover 24"; P/N Hubbell PG1324CA0017	1
U072020_S	DIST SPARE	Inventory	Quazite Splice Box Cover 18"; P/N Hubbell PG1118HA0017	2
U072410_S	DIST SPARE	Inventory	3M QC12-250 Mechanical Shearbolt Connector, 2AWG - 250 MCM;	2
U072510_S	DIST SPARE	Inventory	5815-B-13 Modular Adapter Kit, 1/0 Stranded, 2/0 Compact, 600A,	23
U072520_S	DIST SPARE	Inventory	5815-B-29 Modular Adapter Kit, 5kV, 600A, 8kV, 500 Stranded; P/N	18
U072530_S	DIST SPARE	Inventory	5815-B-49 Modular Adapter Kit, 15kV, 600A, 1000 MCM Aluminum	14

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U072630_S	DIST SPARE	Inventory	5810-BI-15 200 Amp Industrial Loadbreak Bushing Insert, 15kV; P/N	6
U072650_S	DIST SPARE	Inventory	5810-CB-1/0 200 Amp Industrial Loadbreak Elbow w/ Connector, 15kV;	3
U072700_S	DIST SPARE	Inventory	QS4-15SP-QCI-350-750-BCA Cold Shrink Splice Kit w/ Connector,	4
U072710_S	DIST SPARE	Inventory	5551 Cold Shrink Rubber Splice Kit, 5kV, 1/0 AWG; P/N 3M 5551	2
U072720_S	DIST SPARE	Inventory	5553 Cold Shrink Rubber Splice Kit, 5kV, 500 MCM; P/N 3M 5553	1
U072730_S	DIST SPARE	Inventory	QS4-15JCN-QCI-350-750 Cold Shrink Splice Kit w/ Connector, 15kV,	1
U072740_S	DIST SPARE	Inventory	5513A-2-CU Cold Shrink QS-III Splice Kit, 15kV, 2 AWG; P/N 3M	4
U072750_S	DIST SPARE	Inventory	500 MCM - 4/0 AWG Reducing Splice Kit, Copper; P/N Burndy	24
U072760_S	DIST SPARE	Inventory	1/0 AWG Connector for Inline Splice Kit 5501, 5kV, Aluminum; P/N 3M	4
U072770_S	DIST SPARE	Inventory	#2-1 AWG STR, 1-1/0 AWG SOL Connector for Splice Kit 5501, 15kV,	5
U072780_S	DIST SPARE	Inventory	Scotchcast 82A Electrical Splicing Kit, #10 - #2 AWG; P/N 3M 82-A	9
U072790_S	DIST SPARE	Inventory	Scotchcast 85-12 Multi-Mold Power Cable Splice Kit, #1 AWG - 2/0	6
U078870_S	DIST SPARE	Inventory	Cable Cleaning Preparation Kit; P/N 3M CC-2	100
U078880_S	DIST SPARE	Inventory	No-Ox-ID A Special 8oz. Tube; P/N Sanchem R-3266 L1	1
U078890_S	DIST SPARE	Inventory	Synthetic EP Lube Grease 16oz; P/N Curtis/GlenChem 757	3
U079300_S	DIST SPARE	Inventory	Scotch 25 Gray Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-Gray-1/2x20FT	4
U079310_S	DIST SPARE	Inventory	Scotch 35 Orange Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-ORANGE-	3
U079320_S	DIST SPARE	Inventory	Scotch 35 Yellow Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-Yellow-	1
U079330_S	DIST SPARE	Inventory	Scotch 35 Brown Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-Brown-	52
U079340_S	DIST SPARE	Inventory	Scotch 35 Green Vinyl Electric Tape, 1/2"x20'; P/N 3M 10265	29
U079350_S	DIST SPARE	Inventory	Scotch 35 Red Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-Red-1/2x20FT	1
U079360_S	DIST SPARE	Inventory	Scotch 35 Blue Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-Blue-1/2x20FT	9
U079370_S	DIST SPARE	Inventory	Scotch 35 White Vinyl Electric Tape, 1/2"x20'; P/N 3M 35-White-	5
U079705_S	DIST SPARE	Inventory	Scotch 130 Linerless Rubber Splicing Tape, 1"x30'; P/N 3M 130C-	17
U079810_S	DIST SPARE	Inventory	Scotch A-3 Electrician's Abrasive Roll, 1"x75'; P/N 3M A-3	21
U079900_S	DIST SPARE	Inventory	Scotch 13 Electrical Semi-Conducting Tape, 3/4"x15'; P/N 3M 13-	30
U080010_S	DIST SPARE	Inventory	Scotch 2228 Rubber Mastic Tape, 2"x10'; P/N 3M 2228-2X10FT	4
U080300_S	DIST SPARE	Inventory	Scotch Super 88 Vinyl Electrical Tape, 1-1/2"x44'; P/N 3M 88-SUPER-1-	10
U084010_S	DIST SPARE	Inventory	8428-12 Cold Shrink Insulator, 1kV, 500-800 MCM; P/N 3M 8428-12	3
U084020_S	DIST SPARE	Inventory	8427-12 Cold Shrink Insulator, 1kV, 250-400 MCM; P/N 3M 8427-12	10
U084500_S	DIST SPARE	Inventory	7695-S-4 Cold Shrink QT-III 4 Skirt Termination Kit, 5kV - 25/28kV	5
U084600_S	DIST SPARE	Inventory	5637K Cold Shrink QT-II Termination Kit, 15kV, 600-1500 MCM; P/N	1
U084650_S	DIST SPARE	Inventory	5648 Cold Shrink QT-II Termination Kit, 15kV, 750-1500 MCM; P/N 3M	3
U084700_S	DIST SPARE	Inventory	5635K Cold Shrink QT-II Termination Kit, 5kV - 15kV; P/N 3M 5635K	1
U084750_S	DIST SPARE	Inventory	5698k Cold Shrink QT-II Outdoor Termination Kit, 15kV, 800-1500	2
S007000	DISTRIBUTION	Inventory	1" CS Slip On Flange 150#	4
S007010	DISTRIBUTION	Inventory	1.5" CS Slip On Flange 150#	4
S007020	DISTRIBUTION	Inventory	2" CS Slip On Flange 150#	2
S007030	DISTRIBUTION	Inventory	2.5" CS Slip On Flange 150#	1
S007040	DISTRIBUTION	Inventory	3" CS Slip On Flange 150#	2
S007050	DISTRIBUTION	Inventory	4" CS Slip On Flange 150#	4
S007060	DISTRIBUTION	Inventory	6" CS Slip On Flange 150#	2
S007070	DISTRIBUTION	Inventory	8" CS Slip On Flange 150#	2
S007090	DISTRIBUTION	Inventory	12" CS Slip On Flange 150#	4
S007100	DISTRIBUTION	Inventory	14" CS Slip On Flange 150#	4
S007110	DISTRIBUTION	Inventory	1" Grade 5 150# Bolt Kit	4
S007120	DISTRIBUTION	Inventory	1.5" Grade 5 150# Bolt Kit	4
S007130	DISTRIBUTION	Inventory	2" Grade 5 150# Bolt Kit	4
S007140	DISTRIBUTION	Inventory	2.5" Grade 5 150# Bolt Kit	4
S007150	DISTRIBUTION	Inventory	3" Grade 5 150# Bolt Kit	4
S007160	DISTRIBUTION	Inventory	4" Grade 5 150# Bolt Kit	4
S007170	DISTRIBUTION	Inventory	6" Grade 5 150# Bolt Kit	4
S007180	DISTRIBUTION	Inventory	8" Grade 5 150# Bolt Kit	4
S007190	DISTRIBUTION	Inventory	10" Grade 5 150# Bolt Kit	4
S007200	DISTRIBUTION	Inventory	12" Grade 5 150# Bolt Kit	4
S007210	DISTRIBUTION	Inventory	14" Grade 5 150# Bolt Kit (QTY 12 1" x 4.5"PN19501000450 and QTY	4
S007250	DISTRIBUTION	Inventory	1" CS Slip On Flange 300#	4
S007260	DISTRIBUTION	Inventory	1.5" CS Slip On Flange 300#	4

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
S007270	DISTRIBUTION	Inventory	2" CS Slip On Flange 300#	4
S007280	DISTRIBUTION	Inventory	2.5" CS Slip On Flange 300#	4
S007290	DISTRIBUTION	Inventory	3" CS Slip On Flange 300#	4
S007300	DISTRIBUTION	Inventory	4" CS Slip On Flange 300#	4
S007320	DISTRIBUTION	Inventory	8" CS Slip On Flange 300#	2
S007330	DISTRIBUTION	Inventory	10" CS Slip On Flange 300#	4
S007350	DISTRIBUTION	Inventory	1" Grade 5 300# Bolt Kit	4
S007360	DISTRIBUTION	Inventory	1.5" Grade 5 300# Bolt Kit	4
S007370	DISTRIBUTION	Inventory	2" Grade 5 300# Bolt Kit	4
S007380	DISTRIBUTION	Inventory	2.5" Grade 5 300# Bolt Kit	4
S007390	DISTRIBUTION	Inventory	3" Grade 5 300# Bolt Kit	4
S007400	DISTRIBUTION	Inventory	4" Grade 5 300# Bolt Kit	4
S007410	DISTRIBUTION	Inventory	6" Grade 5 300# Bolt Kit	4
S007420	DISTRIBUTION	Inventory	8" Grade 5 300# Bolt Kit	4
S007430	DISTRIBUTION	Inventory	10" Grade 5 300# Bolt Kit	4
S007440	DISTRIBUTION	Inventory	12" Grade 5 300# Bolt Kit	4
S007540	DISTRIBUTION	Inventory	4" Flexitallic Gasket 150#	4
S008000	DISTRIBUTION	Inventory	Bilco Door Slam Lock Assembly PN-RPSW19	10
S008010	DISTRIBUTION	Inventory	Bilco Door Threaded Cover Plug Part Number RPSW8	10
S009000	DISTRIBUTION	Inventory	HYDRANTS, MUELLER FIRE HYDRANT BONNET#145704 *NEEDS	6
S009005	DISTRIBUTION	Inventory	HYDRANTS, MUELLER FIRE HYDRANT BONNET REPAIR KIT	6
S010000	DISTRIBUTION	Inventory	VALVE, BOX SECTION OSVB10S- 10" TOP SECTION	6
S010005	DISTRIBUTION	Inventory	VALVE, BOX SECTION OSVB16S- 16" TOP SECTION	8
S010006	DISTRIBUTION	Inventory	VALVE, BOX SECTION part number-VB-S302-24 24" EXTENSION	3
S010010	DISTRIBUTION	Inventory	VALVE, BOX SECTION OSVB26TS- 26" TOP SECTION	6
S010020	DISTRIBUTION	Inventory	VALVE, BOX SECTION 24" BOTTOM SECTION QOSVB24BS	19
S010040	DISTRIBUTION	Inventory	VALVE, BOX RISER ADJUSTABLE RISER OSVB69RS	3
S010050	DISTRIBUTION	Inventory	VALVE, BOX RISER V.B. 2" PART #TR20	6
S010100	DISTRIBUTION	Inventory	VALVE, BOX LID EJ514UIDW-LID STAMPED WITH U OF I	34
S012000	DISTRIBUTION	Inventory	CLAMP, SMITH BLAIR 16" X 20" X 263 DUCTILE IRON	1
S012010	DISTRIBUTION	Inventory	CLAMP, SMITH BLAIR 18" X 20" X 263 DUCTILE IRON	1
S012020	DISTRIBUTION	Inventory	CLAMP, SMITH BLAIR 20" X 20" X 263 DUCTILE IRON	1
S040000	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE 1" FAIL CLOSE DI/ST1; 300#	4
S040001	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE 1" FAIL OPEN WITH ASCO SOLENOID	2
S040010	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 1 1/2" FAIL CLOSE DI/ST1; 300#	3
S040020	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 2" FAIL CLOSE DI/ST1; 300#	4
S040022	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 2" WITH RCEL-006 ELECT	2
S040030	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 3" FAIL CLOSE DI/ST1; 300#	4
S040040	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 4" FAIL CLOSE DI/ST1 1/5-15 PSIG;	7
S040051	DISTRIBUTION	Inventory	CASHCO, RANGER VALVE, 6" FAIL CLOSE RS6-2C17-	4
S040055	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT FOR 6" RANGER #RB6-100K-0BB	1
S040110	DISTRIBUTION	Inventory	CASHCO, PILOT WB2-CS27-1B000000A POSR-2 PILOT 10-40	1
S040160	DISTRIBUTION	Inventory	CASHCO, SOLENOID VALVE ASCO #EFHT8320G188	6
S040200	DISTRIBUTION	Inventory	CASHCO, CONTROLLER MODEL 764P 1-30 PSIG WITHOUT	5
S040201	DISTRIBUTION	Inventory	CASHCO, CONTROLLER MODEL 764P 20-100 PSIG WITHOUT	5
S040202	DISTRIBUTION	Inventory	CASHCO, CONTROLLER MODEL 764P 50-150 PSIG #CA1-B407-	5
S040210	DISTRIBUTION	Inventory	CASHCO, POSTIONER MODEL 48 TRANSMITTER PROXIMITY	4
S040220	DISTRIBUTION	Inventory	CASHCO, POSTIONER MODEL 148 TRANSMITTER PROXIMITY	4
S040240	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT 1" RANGER RB1-100K-0BB	2
S040250	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT, 1 1/2" RANGER RBG-100K-0BB	2
S040260	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT, 2" RANGER RB2-100K-0BB	3
S040262	DISTRIBUTION	Inventory	CASHCO, REPAIR GASKET 2" RANGER FLEXATELLIC P/N 295-AE-	1
S040270	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT 3" RANGER RB3-100K-0BB	3
S040280	DISTRIBUTION	Inventory	CASHCO, REPAIR KIT 4" RANGER RB4-100K-0BB	2
S040285	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.4 FOR 6" VALVE KIT INCLUDES: 1EA	2
S040290	DISTRIBUTION	Inventory	CASHCO, ACTUATOR TYPE #48 FOR 1, 1 1/2" & 2" RANGERS,	2
S040300	DISTRIBUTION	Inventory	CASHCO, ACTUATOR TYPE #148 FOR 3 TO 6" RANGERS #AU1-	1
S040310	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.2 REDUCED FOR 2" RANGER . TRIM	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
S040320	DISTRIBUTION	Inventory	CASHCO, AIR REGULATOR TYPE 5200P 0-30 LBS #522-0007-	1
S040325	DISTRIBUTION	Inventory	CASHCO, AIR REGULATOR TYPE 5200P 0-60 LBS #522-0007-125-	4
S040326	DISTRIBUTION	Inventory	CASHCO, BRACKET FOR 5200 AIR REGULATOR #080-69-5-05201-	9
S040330	DISTRIBUTION	Inventory	CASHCO, REPAIR .4 TRIM FOR 1 1/2" PART #714-A4-4R9181- 40	3
S040331	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.4 REDUCED FOR 2 .FORGY # 714-80-4-	2
S040332	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.6 REDUCED FOR 2" 714-80-4-R9237-60	2
S040333	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.6 REDUCED FOR 1" VALVE	1
S040334	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.2 REDUCED FOR 1" VALVE #714-80-4-	1
S040335	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.4 REDUCED FOR 1" VALVE#714-80-4-	3
S040336	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM .6 REDUCED FOR 4" VALVE FORGY #RS0-	1
S040337	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM .4 REDUCED FOR 3" VALVE.4 SEAL	1
S040338	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM .6 REDUCED FOR 3" VALVE #714-80-4-	1
S040339	DISTRIBUTION	Inventory	CASHCO, REPAIR TRIM 0.4 FOR 4" VALVE FORGY #RB0-000K-	1
S040340	DISTRIBUTION	Inventory	CASHCO, REPAIR 0.6 TRIM FOR 1 1/2" VALVE	2
S040345	DISTRIBUTION	Inventory	CASHCO, STRAIGHT 1/4" X MIP 1/4" X COMPRESSION GRAINGER	10
S040350	DISTRIBUTION	Inventory	CASHCO, ELBOW 1/4" MIP X 1/4" COMPRESSION GRAINGER	3
S045000	DISTRIBUTION	Inventory	GILSULATE DRITHERM, 500 XR INSULATION IN 60 LB BAGS	40
S045010	DISTRIBUTION	Inventory	LIME, WESTERN TYPE S 50 LB BAG STETSON PRODUCT #	8
S050005	DISTRIBUTION	Inventory	TRAP, ARMSTRONG #2011 250 LB STAINLESS STEEL BUCKET	6
S050010	DISTRIBUTION	Inventory	TRAP, ARMSTRONG #2011 200 LB STAINLESS STEEL BUCKET	6
S050015	DISTRIBUTION	Inventory	TRAP, ARMSTRONG #2011 125 LB STAINLESS STEEL BUCKET	3
S050025	DISTRIBUTION	Inventory	TRAP, ARMSTRONG #1822 3/4" W 1/8" ORAPHUS 250#--no reorder	1
S050030	DISTRIBUTION	Inventory	TRAP, SPIRAX SARCO #UIB30/8 58LB STAINLESS STEEL BUCKET	15
S050035	DISTRIBUTION	Inventory	TRAP, SPIRAX SARCO #UIB30/6 174 LB STAINLESS STEEL	2
S050100	DISTRIBUTION	Inventory	VALVE, BALL 1/4" IP STEAM RATED LOCKING HANDLE	14
S050105	DISTRIBUTION	Inventory	VALVE, BALL 3/8" IP STEAM RATED LOCKING HANDLE	14
S050110	DISTRIBUTION	Inventory	VALVE, BALL 1/2" IP STEAM RATED LOCKING HANDLE	13
S050115	DISTRIBUTION	Inventory	VALVE, BALL 3/4" IP STEAM RATED LOCKING HANDLE	21
S050120	DISTRIBUTION	Inventory	VALVE, BALL 1" IP STEAM RATED LOCKING HANDLE	14
S050125	DISTRIBUTION	Inventory	VALVE, BALL 1 1/4" IP STEAM RATED LOCKING HANDLE	7
S050130	DISTRIBUTION	Inventory	VALVE, BALL 1 1/2" IP STEAM RATED LOCKING HANDLE	12
S050135	DISTRIBUTION	Inventory	VALVE, BALL 2" IP STEAM RATED LOCKING HANDLE	11
S069000	DISTRIBUTION	Inventory	ATS, EXPANISON JOINTS, 2" PISTON TYPE WITH 12" TRAVERSE,	3
S069010	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 3" PISTON TYPE WITH 12" TRAVERSE,	4
S070000	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 4" PISTON TYPE WITH 12" TRAVERSE,	3
S070010	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 6" PISTON TYPE6" EXPANSION JOINTS	4
S070020	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 8" PISTON TYPE WITH 12" TRAVERSE,	2
S070030	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 10" PISTON TYPE WITH 12"	4
S070031	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 12" PISTON TYPE WITH 12"	2
S070035	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 14" PISTON TYPE 12' TRAVERSE, FOR	7
S070040	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 16" PISTON TYPE WITH 12"	2
S070050	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 18" PISTON TYPE WITH 12"	2
S070060	DISTRIBUTION	Inventory	ATS, EXPANSION JOINTS, 20" PISTON TYPE WITH 12"	2
S070099	DISTRIBUTION	Inventory	ATS BALL JOINTS, 4" ATS P-24"	1
S070100	DISTRIBUTION	Inventory	ATS, BALL JOINTS, 6" ATS P-26"	1
S070101	DISTRIBUTION	Inventory	ATS, BALL JOINTS, 8" ATS P-28"	4
S070102	DISTRIBUTION	Inventory	ATS, BALL JOINTS, 10" ATS P-210"	2
S070110	DISTRIBUTION	Inventory	ATS, BALL JOINTS, 12" ATS P-2 BUTT WELD	4
S070111	DISTRIBUTION	Inventory	ATS, BALL JOINTS, 14" ATS P2-SWW-350H-70-20-A	2
S070220	DISTRIBUTION	Inventory	ATS, EXPANSION JOINT, PACKING FOR ATS JOINTS ATS TP2	24
S070280	DISTRIBUTION	Inventory	THREDOLET 1/2" 3000 LBS CLASS 36 3/4 X 1/2 3M A105N 43 WFI	7
S070281	DISTRIBUTION	Inventory	THREDOLET 3/4" 3000 LBS CLASS 36 1 1/2" X 3/4" 3M A SA105N	4
S070282	DISTRIBUTION	Inventory	THREDOLET 2" X 8" - 36" PIPE 3000 LBS CLASS 36 3M A 105N 21	7
S070283	DISTRIBUTION	Inventory	THREDOLET 2" X 4" - 6" PIPE 3000 LBS CLASS 6 3M A105N Y4	5
S090500	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 1" 300 LBS 316SS FLEXIBLE	6
S090502	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 1 1/2" 300 LBS 316 SS GRAPHITE	8
S090503	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 2" 300 LBS 316SS GRAPHITE SPIRAL	4
S090505	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 3" 300 LBS 316SS GRAPHITE SPIRAL	6

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
S090507	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 4" 300 LBS 316SS GRAPHITE SPIRAL	8
S090508	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 6" 300 LBS 316SS GRAPHITE SPIRAL	6
S090510	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 1 1/2" 150 LBS	13
S090511	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 2" 150 LBS	21
S090512	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 3" 150 LBS	1
S090513	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 4" 150 LBS	10
S090514	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 6" 150 LBS	2
S090515	DISTRIBUTION	Inventory	GASKET, FLEXIBLE STEEL 8" 150 LBS	2
S100002	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 3" MJ MEGA LUG BLUE BOLT KIT W	6
S100012	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 4" MJ MEGA LUG BLUE BOLT KIT W	2
S100022	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 6" MJ MEGA LUG BLUE BOLT KIT W	6
S100032	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 8" MJ MEGA LUG BLUE BOLT KIT W	6
S100042	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 10" MJ MEGA LUG BLUE BOLT KIT	6
S100050	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 12" MJ MEGA LUG	2
S100051	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 12" MJ MEGA LUG BLUE BOLT KIT	3
S100055	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 14" MJ MEGA LUG	3
S100056	DISTRIBUTION	Inventory	S100056 WATER PIPING, PIPEFITTING, 14" MJ MEGA LUG BLUE	6
S100160	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 16" MJ MEGA LUG	4
S100161	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 16" MJ MEGA LUG BLUE BOLT KIT	4
S100162	DISTRIBUTION	Inventory	WATER PIPING, PIPEFITTING, 16" MJ SOLID SLEEVE 16" X 15" P/N	1
U000275	DISTRIBUTION	Inventory	RDSS-45 Flood Bag; P/N Tyco Electronics 863155-000	20
U000280	DISTRIBUTION	Inventory	RDSS-45-CLIP; P/N Tyco Electronics 196693-000	30
U000285	DISTRIBUTION	Inventory	RDSS-60 Flood Bag; P/N Tyco Electronics 699412-000	3
U000290	DISTRIBUTION	Inventory	RDSS-75 Flood Bag; P/N Tyco Electronics 938709-000, 291933-000	10
U000295	DISTRIBUTION	Inventory	RDSS-CLIP-75; P/N Tyco Electronics RDSS-CLIP-75(S5), 291933-000	50
U000300	DISTRIBUTION	Inventory	RDSS-125 Flood Bag; P/N Tyco Electronics 588693-000 minimum	31
U000310	DISTRIBUTION	Inventory	Flood Bag 16g CO2 Cylinder; P/N Tyco Electronics 985444-000,	27
U000320	DISTRIBUTION	Inventory	RDSS 125 Clip for Flood Bag; P/N Tyco Electronics RDSS-CLIP-	110
U000330	DISTRIBUTION	Inventory	FST-250 Foam Kit for Flood Protection; American Polywater FST-	6
U000795	DISTRIBUTION	Inventory	Shark 250 Meter Electro Industries. SHARK250-60-10-VI-D2-X-X-X	3
U004650	DISTRIBUTION	Inventory	4" Rigid Bell End; P/N Gedney TNS-400	5
U004700	DISTRIBUTION	Inventory	5" Rigid Bell End; P/N Gedney TNS-500	8
U006470	DISTRIBUTION	Inventory	5" Rigid Pipe Clamp, P/N Eaton B-Line B2019ZN. Crescent # 184312	20
U006480	DISTRIBUTION	Inventory	4-1/2" Rigid Pipe Clamp, P/N Eaton B-Line B2018ZN. Crescent #85290	30
U009400	DISTRIBUTION	Inventory	CABLE, #1/0 AWG 15KV SHIELDED PARALLELED	678
U009500	DISTRIBUTION	Inventory	CABLE, #2 15KV SAME AS U010050 OKONITE SHIELDED SINGLE	1,008
U009900	DISTRIBUTION	Inventory	CABLE, 1/0 5KV SHIELDED, PARALLELED OKONITE SINGLE	4,385
U010050	DISTRIBUTION	Inventory	CABLE, #2 15KV SAME AS U009500 OKONITE SHIELDED SINGLE	4,478
U010200	DISTRIBUTION	Inventory	CABLE, 500 MCM 5KV OKONITE SINGLE CONDUCTOR WIRE	1,367
U010420	DISTRIBUTION	Inventory	Make A Clamp 100'; P/N Breeze Industrial Products 4001	2
U010551	DISTRIBUTION	Inventory	CABLE, OKONITE SINGLE CONDUCT 15KV SAME AS U010600	5,339
U011155	DISTRIBUTION	Inventory	3/4" Meyers Hub; P/N Meyers ST2	11
U012000	DISTRIBUTION	Inventory	1-1/2" Cable Diameter STD Porcelain Clamp; P/N Eaton B-Line B4069	11
U012200	DISTRIBUTION	Inventory	3" Cable Diameter STD Porcelain Clamp; P/N Eaton B-Line B4081	35
U012300	DISTRIBUTION	Inventory	4-1/2" Cable Diameter Porce-A-Clamp Kit; P/N Unistrut P1795B	90
U013400	DISTRIBUTION	Inventory	4/0 AWG One-Hole Lug, Aluminum; P/N Thomas & Betts 60150	26
U014400	DISTRIBUTION	Inventory	1 HPS #2-8 AWG Split-Bolt Connector, Copper; Thomas & Betts 1HPS	39
U014500	DISTRIBUTION	Inventory	10 HPS 1/0 AWG - 6 SOL Split-Bolt Connector, Copper; Thomas &	58
U014600	DISTRIBUTION	Inventory	20 HPS 2/0 STR - 6 SOL Split-Bolt Connector, Copper; Thomas &	18
U014650	DISTRIBUTION	Inventory	40 HPS 4/0 STR - 4 SOL Two-Bolt Connector, Copper; Thomas &	55
U014800	DISTRIBUTION	Inventory	4/0 - 1/0 AWG 2-Bolt Connector Clamp, Copper; Blackburn 2B40	43
U014900	DISTRIBUTION	Inventory	500-350 MCM 2-Bolt Connector Clamp, Copper; Burndy KVSU34	12
U014960	DISTRIBUTION	Inventory	350 MCM Split-Bolt Connector, Cu, P/N Blackburn 350M, Burndy	10
U015500	DISTRIBUTION	Inventory	#4 AWG, 600V 2-WAY SPLICE CONNECTOR, ALUM; THOMAS &	34
U015600	DISTRIBUTION	Inventory	#2 AWG, 600V 2-WAY SPLICE CONNECTOR, ALUM; THOMAS &	10
U015700	DISTRIBUTION	Inventory	1/0 AWG, 600V 2-WAY SPLICE CONNECTOR, ALUM; THOMAS &	33
U015800	DISTRIBUTION	Inventory	250 MCM, 600V 2-Way Splice Connector, Aluminum; Thomas & Betts	34
U015900	DISTRIBUTION	Inventory	4/0 AWG, 600V 2-Way Splice Connector, Aluminum; Thomas & Betts	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U015950	DISTRIBUTION	Inventory	3/0 AWG, 600V 2-Way Splice Connector, Aluminum; P/N Thomas &	5
U016400	DISTRIBUTION	Inventory	CONNECTOR, CU, ONE HOLE LUG, 15 KV # 2 AWG COLOR	50
U016510	DISTRIBUTION	Inventory	2/0 AWG Two-Hole Lug, Copper; P/N Burndy YA26-2N, Grainger	12
U016550	DISTRIBUTION	Inventory	#1 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54947BE	71
U016600	DISTRIBUTION	Inventory	1/0 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54109	62
U016900	DISTRIBUTION	Inventory	#2 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54143	161
U017000	DISTRIBUTION	Inventory	3/0 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54165	170
U017300	DISTRIBUTION	Inventory	#4 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54140	60
U017301	DISTRIBUTION	Inventory	#6 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54105	55
U017302	DISTRIBUTION	Inventory	#8 AWG, 600V One-Hole Lug, Copper; Thomas & Betts 54130	61
U017400	DISTRIBUTION	Inventory	500 MCM, 15kV Two-Hole Lug, Copper; Thomas & Betts 54484	297
U017600	DISTRIBUTION	Inventory	750 MCM, 15kV Two-Hole Lug, Copper; Thomas & Betts 54223	150
U017700	DISTRIBUTION	Inventory	#2 AWG, HV 2-Way Splice Connector, Copper; Thomas & Betts 54007	28
U017800	DISTRIBUTION	Inventory	1/0 AWG, 600V HV 2-WAY SPLICE CONNECTOR, COPPER;	12
U017900	DISTRIBUTION	Inventory	250 MCM, HV 2-Way Splice Connector, Copper; Penn Union BCU-025-	60
U018000	DISTRIBUTION	Inventory	500 MCM, HV 2-Way Splice Connector, Copper; Thomas & Betts	34
U018100	DISTRIBUTION	Inventory	600 MCM, HV 2-Way Splice Connector, Copper; Homac TC-600	34
U018200	DISTRIBUTION	Inventory	750 MCM, HV 2-Way Splice Connector, Copper; Thomas & Betts	14
U018300	DISTRIBUTION	Inventory	#8AWG, 600V 2-WAY SPLICE CONNECTOR, COPPER; THOMAS &	65
U018400	DISTRIBUTION	Inventory	#6 AWG, 600V 2-WAY SPLICE CONNECTOR, COPPER; THOMAS &	50
U018500	DISTRIBUTION	Inventory	#4 AWG, 600V 2-WAY SPLICE CONNECTOR, COPPER; BURNDY	105
U018600	DISTRIBUTION	Inventory	#2 AWG, 600V 2-WAY SPLICE CONNECTOR, COPPER; THOMAS &	85
U018650	DISTRIBUTION	Inventory	#1 AWG, 600V 2-WAY SPLICE CONNECTOR, COPPER; GRAINGER	53
U018800	DISTRIBUTION	Inventory	3/0 AWG, 600V 2-Way Splice Connector, Copper; Burndy YS27	24
U018850	DISTRIBUTION	Inventory	2/0 AWG, 600V 2-Way Splice Connector, Copper; P/N Thomas & Betts	3
U018900	DISTRIBUTION	Inventory	4/0 AWG, 600V 2-Way Splice Connector, Copper; Thomas & Betts	15
U019000	DISTRIBUTION	Inventory	250 MCM, 600V 2-Way Splice Connector, Copper; Thomas & Betts	76
U019050	DISTRIBUTION	Inventory	300 MCM, 600V 2-Way Splice Connector, Aluminum; 3M 10010,	30
U019100	DISTRIBUTION	Inventory	500 MCM, 600V 2-WAY SPLICE CONNECTOR, CU; THOMAS &	55
U023210	DISTRIBUTION	Inventory	FUSE, Fuse, 100E GE Type EJO-1DD, 15KV	15
U023220	DISTRIBUTION	Inventory	FUSE, 50E GE Type EJO-1D, 15KV	1
U023230	DISTRIBUTION	Inventory	FUSE, ITE 65E, 15KV, Cat. No. 225-007-974 974	14
U023231	DISTRIBUTION	Inventory	FUSE, SHAWMUT/MERSEN 20E, 15.5 KV, Cat. No. A155F1D0R0-	3
U023232	DISTRIBUTION	Inventory	FUSE, SHAWMUT/MERSEN 30E, 15.5 KV, Cat. No. A155F1D0R0-	3
U023240	DISTRIBUTION	Inventory	FUSE, ITE 80E, CAT. NO. 225-007-975	5
U023260	DISTRIBUTION	Inventory	FUSE, TYPE EJ0-1, SIZE D-200E	10
U023270	DISTRIBUTION	Inventory	FUSE, POWER SIZE D, GE MODEL 9F62DDD065	3
U023400	DISTRIBUTION	Inventory	FUSE, 10E S&C 122015R4 SM-4 14.4K	10
U023500	DISTRIBUTION	Inventory	FUSE, 10E, S&C 121015R4, SM-4, 7.2 KV	10
U023600	DISTRIBUTION	Inventory	FUSE, 10K, S&C 265010, UNIVERSAL C.O.	26
U023700	DISTRIBUTION	Inventory	FUSE, 100E S&C 121150R4, SM-4, 7.2 KV	11
U023800	DISTRIBUTION	Inventory	FUSE, 100E S&C 122150R4, SM-4, 14.4KV	12
U023900	DISTRIBUTION	Inventory	FUSE, 100K, S&C 265100, UNIVERSAL C.O.	7
U024000	DISTRIBUTION	Inventory	FUSE, 15E S&C 121025R4, SM-4, 7.2 KV	5
U024100	DISTRIBUTION	Inventory	FUSE, 15E S&C 122025R4, SM-4, 14.4 KV	10
U024200	DISTRIBUTION	Inventory	FUSE, 15K, S&C 265015, UNIVERSAL C.O.	24
U024400	DISTRIBUTION	Inventory	FUSE, 150E S&C 122250R4, SM-4, 14.4 KV	16
U024500	DISTRIBUTION	Inventory	FUSE, S&C, 14.4KV, SM4, #252275R4	4
U024600	DISTRIBUTION	Inventory	FUSE, 200E S&C 121300R4, SM-4, 7.2 KV	13
U024700	DISTRIBUTION	Inventory	FUSE, 200E S&C 252300R4 SM-4 14.4KV	7
U024800	DISTRIBUTION	Inventory	FUSE, 25E S&C 121040R4 SM4 7.2KV	10
U024900	DISTRIBUTION	Inventory	FUSE, 25E S&C 122040R4 SM4 14.4KV	10
U024910	DISTRIBUTION	Inventory	14.4/17kV 25E S&C SMU-20 Fuse; P/N S&C 612025 TCC 153-2	2
U024920	DISTRIBUTION	Inventory	14.4/17kV 30E S&C SMU-20 Fuse; P/N S&C 612030 TCC 153-2	11
U024930	DISTRIBUTION	Inventory	14.4kV 40A S&C SMU-20 Fuse; P/N S&C 612040 TCC 153-2	20
U024940	DISTRIBUTION	Inventory	14.4/17kV 65E S&C SMU-20 Fuse; P/N S&C 612065 TCC 153-2	14
U024950	DISTRIBUTION	Inventory	14.4KV 80E S&C SMU-20 Fuse; P/N S&C 612080 TCC 153-2	10
U025000	DISTRIBUTION	Inventory	FUSE, 25K, S&C 265025, UNIVERSAL C.O.	15

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U025160	DISTRIBUTION	Inventory	FUSE, 30K S&C UNIVERSAL C.O.	4
U025180	DISTRIBUTION	Inventory	Fuse FLSR-40-ID 600 V 40A	2
U025300	DISTRIBUTION	Inventory	FUSE, 40E S&C 121060R4 SM-4, 7.2 KV	9
U025400	DISTRIBUTION	Inventory	FUSE, 40E S&C 122060R4 SM-4, 14.4 KV	6
U025410	DISTRIBUTION	Inventory	FUSE, 50E S&C 14.4 KV SMA-4	18
U025420	DISTRIBUTION	Inventory	FUSE, 50E S&C 14.4 KV SMA-5	3
U025640	DISTRIBUTION	Inventory	Fuse FRN-125 250V 125A	3
U025645	DISTRIBUTION	Inventory	Fuse FRN-225 250V 225A	2
U025700	DISTRIBUTION	Inventory	FUSE, 5E, S&C 121007R4, SM-4, 7.2 KV	8
U025800	DISTRIBUTION	Inventory	FUSE, 5E, S&C 122007R4, SM-4, 14.4 KV	12
U025900	DISTRIBUTION	Inventory	FUSE, 50K, S&C 265050, UNIVERSAL C.O.	6
U025920	DISTRIBUTION	Inventory	FUSE, 50E S&C 7.2 KV SMA-4	6
U026000	DISTRIBUTION	Inventory	FUSE, 65E S&C 121100R4 SM4 7.2KV	3
U026100	DISTRIBUTION	Inventory	FUSE, 65E S&C 122100R4 SM4 14.4KV	7
U026200	DISTRIBUTION	Inventory	FUSE, 65K, S&C 265065, UNIVERSAL C.O.	12
U026300	DISTRIBUTION	Inventory	FUSE, 80E S&C 121125 SM4 7.2KV	7
U026400	DISTRIBUTION	Inventory	FUSE, 80E S&C 122125R4 SM4 14.4KV	9
U026500	DISTRIBUTION	Inventory	FUSE, 80K, S&C 265080, UNIVERSAL C.O.	13
U026700	DISTRIBUTION	Inventory	14.4kV 2E S&C Fusistor Fuse; P/N S&C 272002 TCC 159-9	22
U026710	DISTRIBUTION	Inventory	14.4kV 1E S&C Fusistor Fuse; P/N S&C 272001 TCC 159-9	15
U027060	DISTRIBUTION	Inventory	FUSE, CLASS L A4BY2000 TYPE 55	2
U027065	DISTRIBUTION	Inventory	FUSE, 480 V, HI-CAP TIME DELAY	4
U027080	DISTRIBUTION	Inventory	FUSE, KRP-C 3000	2
U027085	DISTRIBUTION	Inventory	FUSE, BUSSMAN KRP-C 4000, TIME DELAY	6
U027086	DISTRIBUTION	Inventory	FUSE, BUSSMAN KRP-C 800SP 600V CLASS L TIME DELAY	3
U027100	DISTRIBUTION	Inventory	FUSE, BUSS CURRENT LIMITER KDP 500 MCM	24
U029000	DISTRIBUTION	Inventory	Beam Clamp 3/8". 1-1/8" Jaw Opening, P/N Garvin MBC-3816/Grainger	8
U031000	DISTRIBUTION	Inventory	KIT, EMERGENCY PCB DISPOSABLE GARMENTS	1
U032280	DISTRIBUTION	Inventory	Inline Fuse Holder, 1 Pole water tight w crimp term. P/N Littelfuse	18
U032500	DISTRIBUTION	Inventory	100W MH Electronic Ballast; P/N Philips Advance IMH-100-D-LF	2
U032770	DISTRIBUTION	Inventory	Advance 13W (1 or 2) CFL Ballast, P/N Philips Advance ICF-2S13-H1-	4
U032780	DISTRIBUTION	Inventory	70W MH Core-Coil Ballast Pulse Start, P/N Philips Advance 71A5292-	3
U032808	DISTRIBUTION	Inventory	150W MH Core-Coil Ballast Pulse Start; P/N Philips Advance 71A5492-	1
U033000	DISTRIBUTION	Inventory	150W HPS Mogul Base Bulb; P/N Grainger #54EP67 12/case	31
U033010	DISTRIBUTION	Inventory	250W MH Mogul Base Bulb Non-Pulse Start M58; P/N Lumapro	23
U033250	DISTRIBUTION	Inventory	250W MH Mogul Base Bulb Pulse Start; P/N GE Lighting 78665,	1
U033290	DISTRIBUTION	Inventory	150W MH Medium Base Bulb M102 Pulse Start; P/N Eiko 15413.	30
U033300	DISTRIBUTION	Inventory	150W MH Medium Base Bulb M107 Non-Pulse Start; P/N Philips	11
U033680	DISTRIBUTION	Inventory	50W HPS Mogul Base Bulb; P/N Philips Lighting 467266- GE LU50.	12
U036000	DISTRIBUTION	Inventory	LIGHT, LENS LEXON FOR 3172-RG BOLLARD	10
U038000	DISTRIBUTION	Inventory	LIGHT, MERCURY VAPOR A23-100V BOLLARD	5
U038150	DISTRIBUTION	Inventory	149W LED Black Cobra Head; P/N Cooper Lighting LDRL-T3-EO6-E-	6
U038600	DISTRIBUTION	Inventory	LIGHT, OCTAGON LANTERN TYPE HJW-33	3
U038700	DISTRIBUTION	Inventory	LED Exec 20 Slipfitters	34
U038800	DISTRIBUTION	Inventory	LIGHT, GLOBE, FIXTURE AND BALLAST	13
U038801	DISTRIBUTION	Inventory	LIGHT, CUSTOM HEX FITTER FOR L60560 GLOBE	2
U044000	DISTRIBUTION	Inventory	OIL, TRANSFORMER WITH ADDITIVE	250
U046000	DISTRIBUTION	Inventory	OIL, TRANSFORMER, SILICONE DIELECT.	200
U048060	DISTRIBUTION	Inventory	Photoeye Socket 105-130V; P/N Tork 5237-UL, Crescent Electric	9
U048080	DISTRIBUTION	Inventory	Photoeye 180 Swivel, 120V 2000W Max; P/N Tork 2021, Grainger	9
U048090	DISTRIBUTION	Inventory	Twistlock Shorting Cap 120V; P/N Outdoor Lighting Control S1039,	2
U048645	DISTRIBUTION	Inventory	Photoeye Swivel; P/N Tork 2002, Grainger #4JNP6	5
U048650	DISTRIBUTION	Inventory	Photo Control 120V Flush Mount; P/N Tork 3000, Crescent #85413,	3
U051000	DISTRIBUTION	Inventory	POLE, CONCRETE B14 (14" overall length. No flange) Stresscrete #	1
U051100	DISTRIBUTION	Inventory	POLE, CONCRETE B19 (19' Overall length, no flange) StressCrete PN	13
U051500	DISTRIBUTION	Inventory	POLE, MILLERBERND OAKDALE GALV. STEEL	1
U051700	DISTRIBUTION	Inventory	POLE, ALUMINUM 35FT TAPERED	2
U059000	DISTRIBUTION	Inventory	RESIN, EPOXY, SCOTCHCAST 4-C	38

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
U065000	DISTRIBUTION	Inventory	2" Fiberglass Cable Channel Saddle; P/N Unistrut P1754FG	47
U070910	DISTRIBUTION	Inventory	36" Cable Rack Stanchion; P/N Underground Devices Inc. CR36-B,	21
U070920	DISTRIBUTION	Inventory	14" HD Cable Rack Arm; P/N Underground Devices Inc. RA14,	22
U070930	DISTRIBUTION	Inventory	20" HD Cable Rack Arm; P/N Underground Devices Inc. RA20,	58
U071980	DISTRIBUTION	Inventory	Quazite Splice Box Cover 12"; P/N Hubbell PC1212HA0017 Tier15	8
U071990	DISTRIBUTION	Inventory	Quazite Open Bottom Splice Box 12"; P/N Hubbell PC1212BA12	6
U072000	DISTRIBUTION	Inventory	Quazite Splice Box Cover 24"; P/N Hubbell PG1324CA0017	5
U072010	DISTRIBUTION	Inventory	Quazite Open Bottom Splice Box 18"; P/N Hubbell PG1118BA18	9
U072020	DISTRIBUTION	Inventory	Quazite Splice Box Cover 18"; P/N Hubbell PG1118HA0017 Tier15	7
U072100	DISTRIBUTION	Inventory	Quazite Splice Box Cover 30"; P/N Hubbell PG1730CA0017	5
U072200	DISTRIBUTION	Inventory	Quazite Open Bottom Splice Box 24"; P/N Hubbell PG1324BA18	4
U072300	DISTRIBUTION	Inventory	Quazite Open Bottom Splice Box 30"; P/N Hubbell PG1730BA18	3
U072400	DISTRIBUTION	Inventory	5501-CI-21 QS-II Molded Rubber Splice, 15kV, 2-1 AWG Stranded, 1-	11
U072480	DISTRIBUTION	Inventory	5800-500B Modular Adapter Kit, 600A, 15kV, 500 Stranded; 3M 5800-	191
U072490	DISTRIBUTION	Inventory	5800-002B Modular Adapter Kit, #2 Stranded, #1 Compact, 600A,	20
U072500	DISTRIBUTION	Inventory	5815-S Modular Splice 2-Way Kit, 600A, 5kV; P/N 3M 5815-5	65
U072503	DISTRIBUTION	Inventory	5815S/5800-500B 3 T-body splice kit with 5800-500B in kit. Republic	6
U072510	DISTRIBUTION	Inventory	5815-B-13 Modular Adapter Kit, 1/0 Stranded, 2/0 Compact, 600A,	6
U072640	DISTRIBUTION	Inventory	5810-B-2 200 Amp Industrial Load break Elbow w/ Connector, 15kV, 1	9
U072653	DISTRIBUTION	Inventory	3M 5810-PC-15 200A 15KV Industrial Insulated Protective Cap	3
U075200	DISTRIBUTION	Inventory	1-5/8" x 24" Bracket Standoff, P/N Unistrut P2947	40
U076900	DISTRIBUTION	Inventory	SWITCH, 5KV ISO-QUENCHER	1
U078500	DISTRIBUTION	Inventory	500 to 4/0 Tee-Tap Clamp; Thomas & Betts 35013	12
U078510	DISTRIBUTION	Inventory	Splice & Tap Kit #14 - 2/0 AWG; Tyco Electronics CPGI-GTAP-2,	10
U078515	DISTRIBUTION	Inventory	Splice & Tap Kit #14 - #2 AWG; Tyco Electronics CPGI-GTAP-1	12
U079000	DISTRIBUTION	Inventory	Scotch 77 Fire-Retardant Electric Arc Proofing Tape, 3"x20'; 3M 77-	207
U079100	DISTRIBUTION	Inventory	Scotch Electrical Grounding Braid #25, 1/2"x15'; 3M 25	9
U079200	DISTRIBUTION	Inventory	Scotch 2520 Varnished Cambric Tape, 3/4"x60'; 3M 2520-3/4INX60FT	15
U079400	DISTRIBUTION	Inventory	Scotch 69 Glass Cloth Electrical Tape, 1/2"x66'; P/N 3M 69-	15
U079500	DISTRIBUTION	Inventory	Scotchfil Electrical insulation Putty, 1-1/2"x5'; 3M SCOTCHFIL	50
U079600	DISTRIBUTION	Inventory	Scotchcast P-4 Restricting Tape, 1"x30'; 3M P-4	1
U079700	DISTRIBUTION	Inventory	Scotch 130 Linerless Rubber Splicing Tape, 3/4"x30'; 3M 130C-	35
U079750	DISTRIBUTION	Inventory	Scotch 2228 Rubber Mastic Tape, 1"x10'; P/N 3M 2228-1X10FT,	4
U079800	DISTRIBUTION	Inventory	Scotch 24 Electrical Shielding Tape, 1"x15'; 3M 24-1X15FT	94
U079850	DISTRIBUTION	Inventory	Scotch 70 Self Fusing Rubber Electrical Tape, 1"x30'; 3M 70-1X30FT	55
U079900	DISTRIBUTION	Inventory	Scotch 13 Electrical Semi-Conducting Tape, 3/4"x15'; 3M 13-3/4X15FT	71
U080010	DISTRIBUTION	Inventory	Scotch 228 Rubber Mastic Tape, 2"x10'; P/N 3M 2228-2X10FT, Comes	15
U080200	DISTRIBUTION	Inventory	Scotch Super 88 Vinyl Electrical Tape, 3/4"x66'; P/N 3M 88-SUPER-	77
U080300	DISTRIBUTION	Inventory	Scotch Super 88 Vinyl Electrical Tape, 1-1/2"x44'; P/N 3M 88-SUPER-1-	20
U084300	DISTRIBUTION	Inventory	7692-S-4 Cold Shrink QT-III 4 Skirt Termination Kit, 5kV - 25/28kV; P/N	15
U084400	DISTRIBUTION	Inventory	7621-S-2 Cold Shrink QT-III Termination Kit, 5 kV, 2 - 3/0 AWG; P/N	6
U084500	DISTRIBUTION	Inventory	7695-S-4 Cold Shrink QT-III 4 Skirt Termination Kit, 5kV - 25/28kV; P/N	7
U084510	DISTRIBUTION	Inventory	7696-S-4 Cold Shrink QT-III 4 Skirt Termination Kit, 5kV - 25/28kV; P/N	6
PP000010	UTIL	Inventory	DRC DONALDSON TORIT CARTRIDGE FILTERS	30
PP000020	UTIL	Inventory	SULLAIR OIL FILTER	2
PP000060	UTIL	Inventory	LOCTITE NORBAK PNEU-WEAR PC7226	3
PP018400	UTIL	Inventory	GROUNDFOSS CR32 PUMP REPAIR KIT 97751539	3
PP034680	UTIL	Inventory	BRAY CONTROLS BUTTERFLY VALVE	2
PP037540	UTIL	Inventory	SOLA AUTOMATION TRANSFORMER HS1F1.5AS	1
PP037550	UTIL	Inventory	UCC ASH SEPARATOR VALVE 18" UCC#1221-101-1	1
PP037560	UTIL	Inventory	UCC GASKET 24 X 32 X .25, ASB FREE UCC#408880	2
PP000010-S	UTILITY SPARE	Inventory	BELZONA 1511 SUPER HT-METAL REPAIR EPOXY	15
PP000020-S	UTILITY SPARE	Inventory	BELZONA TOOLBOX	1
PP000030-S	UTILITY SPARE	Inventory	EUTECTIC CERAMIC WITH KEVLAR HARDENER & RESIN	2
PP000040-S	UTILITY SPARE	Inventory	LAWSON EPOXY STRIP FAST CURE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP000050-S	UTILITY SPARE	Inventory	LOCTITE NORBAK FAST CURE PNEU-WEAR	1
PP000070-S	UTILITY SPARE	Inventory	WEARCON TRIPLE BEAD CERAMIC	4
PP000080-S	UTILITY SPARE	Inventory	DAIKIN INDUSTRIES COOLING ASSEMBLY	2
PP000090-S	UTILITY SPARE	Inventory	DAIKIN REMOTE CONTROLLER AS AY	1
PP000100-S	UTILITY SPARE	Inventory	FUJITSU GENERAL LIMITED CONTROLLER PCB ASSEMBLY	1
PP000110-S	UTILITY SPARE	Inventory	ASH UNLOADER CHAIN PADDLES	72
PP000120-S	UTILITY SPARE	Inventory	ASH UNLOADER CHAIN PIN	7
PP000130-S	UTILITY SPARE	Inventory	ASH UNLOADER FOAM ADHESIVE LINING	1
PP000140-S	UTILITY SPARE	Inventory	ASH UNLOADER FULL TRUCK DETECTOR HOSE	1
PP000150-S	UTILITY SPARE	Inventory	ASH UNLOADING DOWNSPOUT TURNBUCKLE LEFT HANDED THREAD ROD	1
PP000160-S	UTILITY SPARE	Inventory	ASHBLAST GATE	1
PP000180-S	UTILITY SPARE	Inventory	BOTTOM ASH ACCESS DOOR WINDOW	1
PP000190-S	UTILITY SPARE	Inventory	METSO SIPHON TUBE / PIGTAIL	1
PP000200-S	UTILITY SPARE	Inventory	SUPPLY KIT	2
PP000210-S	UTILITY SPARE	Inventory	SUPPLY KIT	1
PP000220-S	UTILITY SPARE	Inventory	UNITED CONVEYOR SUPPLY KIT	3
PP000230-S	UTILITY SPARE	Inventory	UNITED CONVEYOR SUPPLY KIT	3
PP000240-S	UTILITY SPARE	Inventory	UNITED CONVEYOR SUPPLY KIT	1
PP000250-S	UTILITY SPARE	Inventory	ASH FLOW ADAPTER	2
PP000260-S	UTILITY SPARE	Inventory	ASH PIPING	1
PP000270-S	UTILITY SPARE	Inventory	ASH SYSTEM HOPPER FLANGE	7
PP000280-S	UTILITY SPARE	Inventory	ASH UNLOADER ROTARY	1
PP000290-S	UTILITY SPARE	Inventory	METSO BOILER 11 ASH SCREW LID	1
PP000300-S	UTILITY SPARE	Inventory	OLD ASH RECIEVER	2
PP000310-S	UTILITY SPARE	Inventory	UCC 7" ASH FA INTAKE TEE	11
PP000320-S	UTILITY SPARE	Inventory	UNITED CONVEYOR CORPORATION GATE VALVE ASH SYSTEM HOPPER	2
PP000330-S	UTILITY SPARE	Inventory	SKOLNIK 55 GAL. CHEMICAL BARREL	3
PP000340-S	UTILITY SPARE	Inventory	55 GAL CHEMICAL BARREL	3
PP000350-S	UTILITY SPARE	Inventory	SNYDER INDUSTRY 220 GAL TANK	2
PP000360-S	UTILITY SPARE	Inventory	1" PHOSPHOR BRONZE BUSHING	2
PP000370-S	UTILITY SPARE	Inventory	1/2" BRONZE SPHERICAL BEARING	11
PP000380-S	UTILITY SPARE	Inventory	40MM BALL BEARING	8
PP000390-S	UTILITY SPARE	Inventory	50MM BALL BEARING	1
PP000400-S	UTILITY SPARE	Inventory	6203D BEARINGS	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP000410-S	UTILITY SPARE	Inventory	ALINABAL ROD END	1
PP000420-S	UTILITY SPARE	Inventory	BALDOR-DODGE 3-7/16 SLEEVOIL HIGH-CAPACITY THRUST PLATE KIT	1
PP000430-S	UTILITY SPARE	Inventory	BALDOR-DODGE SLEEVOIL THRUST COLLAR BOILER 11 PA FAN	3
PP000440-S	UTILITY SPARE	Inventory	BOILER 10 GRATE BEARINGS	3
PP000450-S	UTILITY SPARE	Inventory	BOTTOM LIMESTONE FEEDER BEARING	2
PP000480-S	UTILITY SPARE	Inventory	CHICAGO RAWHIDE OIL SEAL	6
PP000490-S	UTILITY SPARE	Inventory	CHICAGO RAWHIDE OIL SEAL	14
PP000500-S	UTILITY SPARE	Inventory	CHICAGO RAWHIDE OIL SEAL LOOP SEAL GEARBOX	2
PP000510-S	UTILITY SPARE	Inventory	CR INDUSTRIES OIL SEAL	3
PP000520-S	UTILITY SPARE	Inventory	DICHTOMATIK OIL SEAL	2
PP000540-S	UTILITY SPARE	Inventory	DODGE 3 15/16 MODULAR SLV SEAL	3
PP000550-S	UTILITY SPARE	Inventory	DODGE LOWER LIMESTONE FEEDER BEARING	1
PP000560-S	UTILITY SPARE	Inventory	DODGE TRAPEZOIDAL T-SECTION OIL RING 7"	15
PP000570-S	UTILITY SPARE	Inventory	EBC SINGLE ROW SEALED BALL BEARING OAT HULL WEIGH BELT PULLEY	2
PP000580-S	UTILITY SPARE	Inventory	FAFNIR 203P BEARINGS	1
PP000590-S	UTILITY SPARE	Inventory	FAFNIR 9104P BEARINGS	1
PP000600-S	UTILITY SPARE	Inventory	FAFNIR BALL BEARING	14
PP000610-S	UTILITY SPARE	Inventory	FAFNIR HOUSED BEARING	2
PP000620-S	UTILITY SPARE	Inventory	FAG BEARINGS	2
PP000630-S	UTILITY SPARE	Inventory	FAG BEARINGS	2
PP000640-S	UTILITY SPARE	Inventory	FAG BEARINGS	1
PP000650-S	UTILITY SPARE	Inventory	FAG BEARINGS	1
PP000660-S	UTILITY SPARE	Inventory	FAN BEARING OIL RING	1
PP000670-S	UTILITY SPARE	Inventory	GARLOCK KLOZURE OIL SEAL	7
PP000680-S	UTILITY SPARE	Inventory	GARLOCK KLOZURE OIL SEALS - LOOP SEAL	4
PP000690-S	UTILITY SPARE	Inventory	GRAPHITE BUSHING	10
PP000700-S	UTILITY SPARE	Inventory	GULF 6203RS BEARINGS	2
PP000710-S	UTILITY SPARE	Inventory	KBC 203D BEARINGS	5
PP000730-S	UTILITY SPARE	Inventory	LOOP SEAL HEAD - SEALMASTER	2
PP000740-S	UTILITY SPARE	Inventory	MARTIN ASH UNLOADER BUSHING	1
PP000750-S	UTILITY SPARE	Inventory	MARTIN BUSHING	1
PP000760-S	UTILITY SPARE	Inventory	MARTIN QD BEARING	1
PP000770-S	UTILITY SPARE	Inventory	MARTIN QD BUSHING	2
PP000780-S	UTILITY SPARE	Inventory	MARTIN QD BUSHING	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP000810-S	UTILITY SPARE	Inventory	MB MANUFACTURING 1-15/16" INSERT BEARING	2
PP000820-S	UTILITY SPARE	Inventory	MB MANUFACTURING SQUARE FLANGE BLOCK HOUSED BEARING	1
PP000830-S	UTILITY SPARE	Inventory	MCGILL CAM FOLLOWER W/ BEARING	4
PP000840-S	UTILITY SPARE	Inventory	MCGILL PRECISION BEARING	3
PP000850-S	UTILITY SPARE	Inventory	MILWAUKEE JOURNAL BEARING	3
PP000860-S	UTILITY SPARE	Inventory	MRC BEARINGS 309S	2
PP000870-S	UTILITY SPARE	Inventory	MRC BEARINGS 5309C	2
PP000880-S	UTILITY SPARE	Inventory	MRC BEARINGS 7407PJDU	3
PP000890-S	UTILITY SPARE	Inventory	NACHI BEARINGS TV ISO GATE	6
PP000900-S	UTILITY SPARE	Inventory	NICE BALL BEARING	22
PP000910-S	UTILITY SPARE	Inventory	NICE BALL BEARINGS	21
PP000920-S	UTILITY SPARE	Inventory	NICE SEALED BEARING	4
PP000930-S	UTILITY SPARE	Inventory	NSK BEARINGS	4
PP000940-S	UTILITY SPARE	Inventory	NTN BEARINGS	1
PP000950-S	UTILITY SPARE	Inventory	NTN BEARINGS	1
PP000960-S	UTILITY SPARE	Inventory	OIL SEAL	1
PP000970-S	UTILITY SPARE	Inventory	OIL SEAL	2
PP000990-S	UTILITY SPARE	Inventory	REXNORD BALL BEARING	36
PP001000-S	UTILITY SPARE	Inventory	ROD ENDS 3/4" INSERTS	3
PP001010-S	UTILITY SPARE	Inventory	SEALMASTER BEARING	2
PP001020-S	UTILITY SPARE	Inventory	SEALMASTER BEARING	4
PP001030-S	UTILITY SPARE	Inventory	SEALMASTER BEARING LOOP SEAL SOUTH END	1
PP001040-S	UTILITY SPARE	Inventory	SEALMASTER BEARINGS	2
PP001050-S	UTILITY SPARE	Inventory	SEALMASTER BEARINGS LOOP SEAL SOUTH END	2
PP001060-S	UTILITY SPARE	Inventory	SEALS FOR SNH AND SNL	2
PP001070-S	UTILITY SPARE	Inventory	SKF 22215 EK BEARING	3
PP001080-S	UTILITY SPARE	Inventory	SKF 22X3, 15/16	2
PP001090-S	UTILITY SPARE	Inventory	SKF 22X3, 15/16	2
PP001100-S	UTILITY SPARE	Inventory	SKF ADAPTER ASSEMBLY 15X2, 7/16	4
PP001110-S	UTILITY SPARE	Inventory	SKF ADAPTER ASSEMBLY ASH SCREW	2
PP001120-S	UTILITY SPARE	Inventory	SKF ASH SCREW ADAPTER	4
PP001130-S	UTILITY SPARE	Inventory	SKF BALL BEARINGS	14
PP001140-S	UTILITY SPARE	Inventory	SKF BEARINGS	2
PP001150-S	UTILITY SPARE	Inventory	SKF BEARINGS	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP001160-S	UTILITY SPARE	Inventory	SKF BEARINGS FOR B19 B20 DESUP PUMPS	8
PP001170-S	UTILITY SPARE	Inventory	SKF BEARINGS FOR CARVER PUMPS	2
PP001180-S	UTILITY SPARE	Inventory	SKF BOILER 10 RETRACTABLE SOOT BLOWER BEARING	1
PP001190-S	UTILITY SPARE	Inventory	SKF EXPLORE 6208 JEM	2
PP001220-S	UTILITY SPARE	Inventory	SKF EXPLORER	2
PP001230-S	UTILITY SPARE	Inventory	SKF EXPLORER	2
PP001240-S	UTILITY SPARE	Inventory	SKF EXPLORER	2
PP001250-S	UTILITY SPARE	Inventory	SKF EXPLORER	3
PP001260-S	UTILITY SPARE	Inventory	SKF EXPLORER 6208 5CM LOOP SEAL GEARBOX	1
PP001270-S	UTILITY SPARE	Inventory	SKF EXPLORER OIL SEAL	2
PP001280-S	UTILITY SPARE	Inventory	SKF OIL SEAL	2
PP001290-S	UTILITY SPARE	Inventory	SKF OIL SEAL	3
PP001300-S	UTILITY SPARE	Inventory	SKF SAFD515 PILLOW BLOCK	4
PP001310-S	UTILITY SPARE	Inventory	SKF SNW 22X4	2
PP001320-S	UTILITY SPARE	Inventory	SKF STABILIZING RING	1
PP001330-S	UTILITY SPARE	Inventory	TB WOOD'S SURE-GRIP QUICK DETACHABLE BUSHING	3
PP001340-S	UTILITY SPARE	Inventory	TIMKEN BEARINGS 308K	5
PP001350-S	UTILITY SPARE	Inventory	TIMKEN BEARINGS 308W	4
PP001360-S	UTILITY SPARE	Inventory	TIMKEN INDUSTRIAL SEAL	3
PP001370-S	UTILITY SPARE	Inventory	TIMKEN ROLLER BEARING CONE	4
PP001380-S	UTILITY SPARE	Inventory	TIMKEN ROLLER BEARING CUP	7
PP001390-S	UTILITY SPARE	Inventory	TIMKEN #11 STOCK FEEDER BOLT B762	1
PP001400-S	UTILITY SPARE	Inventory	TIMKEN BALL BEARINGS 314W	2
PP001410-S	UTILITY SPARE	Inventory	TIMKEN BALL BEARINGS 315W	2
PP001430-S	UTILITY SPARE	Inventory	TRW 104ZZ BEARINGS	2
PP001440-S	UTILITY SPARE	Inventory	SEALMASTER SQUARE FLANGE HOUSED BEARING	1
PP001450-S	UTILITY SPARE	Inventory	TIMKEN OIL SEAL	2
PP001460-S	UTILITY SPARE	Inventory	#10 FD FAN BEARING	1
PP001470-S	UTILITY SPARE	Inventory	#10 ID PILLOW BLOCK	2
PP001480-S	UTILITY SPARE	Inventory	#10 ID PILLOW BLOCK	2
PP001490-S	UTILITY SPARE	Inventory	#11 ASH SCREW BEARING	2
PP001500-S	UTILITY SPARE	Inventory	#11 PA FAN BEARING	2
PP001510-S	UTILITY SPARE	Inventory	BALDOR BLR 11 FAN BEARING	1
PP001520-S	UTILITY SPARE	Inventory	BALDOR FAN BEARING	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP001530-S	UTILITY SPARE	Inventory	BLR 11 P.A. FAN BEARING	1
PP001540-S	UTILITY SPARE	Inventory	CBI FD FAN BEARINGS	1
PP001550-S	UTILITY SPARE	Inventory	CHICAGO RAWHIDE OIL SEAL	24
PP001560-S	UTILITY SPARE	Inventory	COLLAR	2
PP001570-S	UTILITY SPARE	Inventory	DODGE BEARING HOUSING	2
PP001580-S	UTILITY SPARE	Inventory	DODGE BEARING PILLOW BLOCK	2
PP001590-S	UTILITY SPARE	Inventory	DODGE BEARING PILLOW BLOCK	2
PP001600-S	UTILITY SPARE	Inventory	DODGE LINEAR ASSEMBLY	2
PP001610-S	UTILITY SPARE	Inventory	DODGE PILLOW BLOCK	1
PP001620-S	UTILITY SPARE	Inventory	DODGE PILLOW BLOCK	1
PP001630-S	UTILITY SPARE	Inventory	DODGE PILLOW BLOCK	1
PP001640-S	UTILITY SPARE	Inventory	DODGE QD SHAFT BUSHING	1
PP001650-S	UTILITY SPARE	Inventory	DODGE RT THRUST COLLAR	1
PP001660-S	UTILITY SPARE	Inventory	DODGE VENTED PIPE OIL SEAL	4
PP001670-S	UTILITY SPARE	Inventory	DODGE/ROCKWELL AUTOMATION	2
PP001680-S	UTILITY SPARE	Inventory	FAG BEARING	1
PP001690-S	UTILITY SPARE	Inventory	FAG BEARING	1
PP001700-S	UTILITY SPARE	Inventory	MBM MILWAUKEE BEARINGS	2
PP001710-S	UTILITY SPARE	Inventory	OIL SEAL	2
PP001720-S	UTILITY SPARE	Inventory	OIL SEAL SPACER	1
PP001730-S	UTILITY SPARE	Inventory	SAF PILLOW BLOCK WITH BEARING	2
PP001740-S	UTILITY SPARE	Inventory	SEAL MASTER BEARINGS	2
PP001750-S	UTILITY SPARE	Inventory	SHAFT BEARING	2
PP001760-S	UTILITY SPARE	Inventory	SHAFT BEARING	1
PP001770-S	UTILITY SPARE	Inventory	SHAFT SEAL	1
PP001780-S	UTILITY SPARE	Inventory	SKF SNL 518-615 PLUMBER BEARING HOUSING	2
PP001790-S	UTILITY SPARE	Inventory	SLEEVOIL PILLOW BLOCK	1
PP001800-S	UTILITY SPARE	Inventory	TIMKEN PIPE CONNECTOR	1
PP001810-S	UTILITY SPARE	Inventory	BLUE SHAFT ADAPTER	1
PP001820-S	UTILITY SPARE	Inventory	DODGE BLOCK BEARING	2
PP001830-S	UTILITY SPARE	Inventory	DODGE BLOCK BEARING	2
PP001840-S	UTILITY SPARE	Inventory	REXNORD BUSHING ASSEMBLY BOX	1
PP001850-S	UTILITY SPARE	Inventory	ALLIGATOR RSC187 TOOL	1
PP001860-S	UTILITY SPARE	Inventory	ALLIGATOR STAPLE BELT FASTENERS	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP001870-S	UTILITY SPARE	Inventory	AIRETOOL BOILER TUBE EXPANDER	4
PP001880-S	UTILITY SPARE	Inventory	BOILER 10 GAS BURNER	1
PP001890-S	UTILITY SPARE	Inventory	BOILER 11 AIR HORN DIAPHRAGM	3
PP001900-S	UTILITY SPARE	Inventory	BOILER 11 AIR HORN DIAPHRAGM GASKET	11
PP001910-S	UTILITY SPARE	Inventory	BOILER 11 CRUSHER FLAT WASHERS	3
PP001920-S	UTILITY SPARE	Inventory	BOILER 11 GAS BURNER STRAINER	2
PP001930-S	UTILITY SPARE	Inventory	BOILER 11 PA FAN COUPLER	2
PP001940-S	UTILITY SPARE	Inventory	BOILER 11 PA FAN COUPLER GUARD	2
PP001950-S	UTILITY SPARE	Inventory	BOILER 11 PA FAN COUPLER NUTS & BOLTS	2
PP001960-S	UTILITY SPARE	Inventory	BOILER 11 PA FAN LINKAGE	2
PP001970-S	UTILITY SPARE	Inventory	BOILER 11 SA NOZZLE DRIVE ACTUATOR GASKET KIT	2
PP001980-S	UTILITY SPARE	Inventory	BOILER 7 & 8 GAS NOZZLE	12
PP001990-S	UTILITY SPARE	Inventory	BOILER 7 & 8 HEADER HEATER GASKETS	1
PP002000-S	UTILITY SPARE	Inventory	BOILER 8 FLW NOZZLE	1
PP002010-S	UTILITY SPARE	Inventory	BOILER11 FLUIDIZING AIR PARTS	1
PP002020-S	UTILITY SPARE	Inventory	CHAMPION AEROSPACE IGNITOR	2
PP002030-S	UTILITY SPARE	Inventory	CHESTERTON BOILER 7 & 8 HEADER HEATER SPRING WASHERS	1
PP002040-S	UTILITY SPARE	Inventory	CLEAVER-BOOKS JEFFERSON BURNER DIFFUSER	1
PP002050-S	UTILITY SPARE	Inventory	CLEAVER-BROOKS IGNITION TRANSFORMER	1
PP002060-S	UTILITY SPARE	Inventory	COEN BOILER 11 SUB IGNITOR TIPS	2
PP002070-S	UTILITY SPARE	Inventory	COEN BOILER 7&8 IGNITOR	1
PP002080-S	UTILITY SPARE	Inventory	COEN IGNITOR SPARK PLUG	1
PP002090-S	UTILITY SPARE	Inventory	CONTINUOUS BLOWDOWN ASSEMBLY	1
PP002100-S	UTILITY SPARE	Inventory	CONTINUOUS BLOWDOWN LOWER BODY HALF	1
PP002110-S	UTILITY SPARE	Inventory	CONTINUOUS BLOWDOWN TANK GAGE GLASS	3
PP002120-S	UTILITY SPARE	Inventory	CONTINUOUS BLOWDOWN UPPER BODY HALF	4
PP002130-S	UTILITY SPARE	Inventory	DURAFLEX IGNITOR PARTS FOR BLR 10	6
PP002150-S	UTILITY SPARE	Inventory	AIR CANNON FLANGE 4 1/2 IN	5
PP002160-S	UTILITY SPARE	Inventory	MADDEN ORIFICE METER PARTS	1
PP002170-S	UTILITY SPARE	Inventory	QUICK SHOT ADAPTER QS-300	2
PP002180-S	UTILITY SPARE	Inventory	SPARK PLUG HOSPITAL BOILER	1
PP002190-S	UTILITY SPARE	Inventory	SWIRLER	1
PP002200-S	UTILITY SPARE	Inventory	TG6 CLEANING NOZZLE	1
PP002210-S	UTILITY SPARE	Inventory	ZEECO IGNITOR HARDWARE	24

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP002220-S	UTILITY SPARE	Inventory	ZEECO HEI SPARK GENERATOR	1
PP002230-S	UTILITY SPARE	Inventory	ZEECO BOILER 10 IGNITOR SPARK PLUG ASSEMBLY	3
PP002240-S	UTILITY SPARE	Inventory	ZEECO HEI POWER-SPARK TRANSFORMER	1
PP002250-S	UTILITY SPARE	Inventory	HEAT SHIELD	12
PP002260-S	UTILITY SPARE	Inventory	HEAT SHIELD	6
PP002270-S	UTILITY SPARE	Inventory	HEAT SHIELD PIPING	2
PP002280-S	UTILITY SPARE	Inventory	90 DEGREE SUPERHEATER TUBE 2.250X180	32
PP002290-S	UTILITY SPARE	Inventory	BLR 10 REJECTION EXPANSION CAN	1
PP002300-S	UTILITY SPARE	Inventory	BOILER 10 PIPING	2
PP002310-S	UTILITY SPARE	Inventory	BOX 27" ROTOR HOUSING AIR	1
PP002320-S	UTILITY SPARE	Inventory	DSC COAL THROWER ASSEMBLY	4
PP002330-S	UTILITY SPARE	Inventory	DSC MISC PARTS	1
PP002340-S	UTILITY SPARE	Inventory	FAN DAMPER 1/2" JAM NUT	18
PP002350-S	UTILITY SPARE	Inventory	FAN DAMPER CENTER HUB AND DRIVE GEAR	1
PP002360-S	UTILITY SPARE	Inventory	FAN DAMPER GEAR RETAINING RING	1
PP002370-S	UTILITY SPARE	Inventory	FAN DAMPER OPERATING LEVER	1
PP002380-S	UTILITY SPARE	Inventory	FAN DAMPER THREADED ROD	18
PP002390-S	UTILITY SPARE	Inventory	FAN DAMPER VORTEX BLADES	18
PP002400-S	UTILITY SPARE	Inventory	PINNACLE MULTISWIRLER GASKETS	35
PP002410-S	UTILITY SPARE	Inventory	RILEY BOILER 10 CENTER LEDGE PLATE	71
PP002420-S	UTILITY SPARE	Inventory	RILEY BOILER 10 DEFLECTOR SIDE PLATE	16
PP002430-S	UTILITY SPARE	Inventory	RILEY BOILER 10 FRONT CENTER LEDGE PLATE	6
PP002440-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE CLIP	2
PP002450-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE CLIP	2
PP002460-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE DRIVE CHAIN 10' SEGMENT	12
PP002470-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE DRIVE CHAIN 10' SEGMENT	7
PP002480-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE SEALING CLIP	117
PP002490-S	UTILITY SPARE	Inventory	RILEY BOILER 10 GRATE SEALING CLIP	92
PP002500-S	UTILITY SPARE	Inventory	RILEY BOILER 10 INTERMEDIATE AIR SEAL	31
PP002510-S	UTILITY SPARE	Inventory	RILEY BOILER 10 LEFT ASH DEFLECTOR	2
PP002520-S	UTILITY SPARE	Inventory	RILEY BOILER 10 LEFT CUT-OFF PLATE	9
PP002530-S	UTILITY SPARE	Inventory	RILEY BOILER 10 REAR AIR SEAL	40
PP002540-S	UTILITY SPARE	Inventory	RILEY BOILER 10 REAR AIR SEAL - SMALL	18
PP002550-S	UTILITY SPARE	Inventory	RILEY BOILER 10 REAR CENTER LEDGE PLATE	11

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP002560-S	UTILITY SPARE	Inventory	RILEY BOILER 10 REAR PANEL SECTION	24
PP002570-S	UTILITY SPARE	Inventory	RILEY BOILER 10 REINJECTION NOZZLE 4"	17
PP002580-S	UTILITY SPARE	Inventory	RILEY BOILER 10 RIGHT CUT-OFF PLATE	10
PP002590-S	UTILITY SPARE	Inventory	RILEY BOILER 10 RIGHT INTERMEDIATE AIR SEAL	34
PP002600-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL	20
PP002610-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL - END	4
PP002620-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL - END W/ NOTCH	12
PP002630-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL 13.5"	21
PP002640-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL 4.5"	32
PP002650-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TOP AIR SEAL 9"	36
PP002660-S	UTILITY SPARE	Inventory	RILEY BOILER 10 TUYERE DEFLECTOR	64
PP002670-S	UTILITY SPARE	Inventory	RILEY BOILER 10 VENTURI NOZZLE 3"	7
PP002680-S	UTILITY SPARE	Inventory	RILEY STEAM INJECTOR	1
PP002690-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2"O.D.X0.150X4"CC	12
PP002700-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2.25X0.180	12
PP002710-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2.25X0.180	9
PP002720-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2.25X180	23
PP002730-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2.25X180	10
PP002740-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE 2X0.150	40
PP002750-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE STAINLESS	32
PP002760-S	UTILITY SPARE	Inventory	SUPERHEATER TUBE STRAIGHT 2"X0.150"	6
PP002770-S	UTILITY SPARE	Inventory	WHEELABRATOR MULTI CONE	104
PP002780-S	UTILITY SPARE	Inventory	RILEY BOILER 10 RIGHT ASH DEFLECTOR	4
PP002790-S	UTILITY SPARE	Inventory	ACID BRUSHES	30
PP002800-S	UTILITY SPARE	Inventory	1 GALLON METAL BUCKET	5
PP002810-S	UTILITY SPARE	Inventory	5 GAL BUCKETS WITH LIDS	6
PP002820-S	UTILITY SPARE	Inventory	1/4" 7X7 STAINLESS STEEL CABLE	50
PP002830-S	UTILITY SPARE	Inventory	CHESTERTON STANCOR CABLE	1
PP002840-S	UTILITY SPARE	Inventory	DAYTON CLEAR VINYL COATED STEEL CABLE 3/16-1/4" 7 X 19	3
PP002850-S	UTILITY SPARE	Inventory	RED VINYL COATED STEEL CABLE 1/8-3/16" 7 X 19	1
PP002860-S	UTILITY SPARE	Inventory	STEEL CABLE 25 FT	6
PP002870-S	UTILITY SPARE	Inventory	UNCOATED STEEL CABLE 1/8" 7 X 7	1
PP002880-S	UTILITY SPARE	Inventory	UNCOATED STEEL CABLE 3/16" 7 X 19	3
PP002890-S	UTILITY SPARE	Inventory	UNCOATED STEEL CABLE 3/8" 7 X 19	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP002900-S	UTILITY SPARE	Inventory	AD CAPACITOR	1
PP002910-S	UTILITY SPARE	Inventory	DAYTON MOTOR CAPACITOR	3
PP002920-S	UTILITY SPARE	Inventory	GE MOTOR RUN CAPACITOR	1
PP002930-S	UTILITY SPARE	Inventory	PLASTIC CAPACITORS INC CAPACITORS	2
PP002940-S	UTILITY SPARE	Inventory	SHIZUKI CAPACITOR	2
PP002950-S	UTILITY SPARE	Inventory	CAT ALTERNATOR G	1
PP002960-S	UTILITY SPARE	Inventory	CAT BELT	1
PP002970-S	UTILITY SPARE	Inventory	CAT BREATHER ASSEMBLY	4
PP002980-S	UTILITY SPARE	Inventory	CAT BUFFER GP	1
PP002990-S	UTILITY SPARE	Inventory	CAT JACKET WATER HEATER	1
PP003000-S	UTILITY SPARE	Inventory	CAT ENGINE OIL FILTER	4
PP003010-S	UTILITY SPARE	Inventory	CAT FLUID SAMPLER	30
PP003020-S	UTILITY SPARE	Inventory	CAT GASKET	2
PP003030-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003040-S	UTILITY SPARE	Inventory	CAT GASKET	2
PP003050-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003060-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003070-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003080-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003090-S	UTILITY SPARE	Inventory	CAT GASKET	1
PP003100-S	UTILITY SPARE	Inventory	CAT GASKET	3
PP003110-S	UTILITY SPARE	Inventory	CAT GASKET	40
PP003120-S	UTILITY SPARE	Inventory	CAT GASKET KIT	1
PP003130-S	UTILITY SPARE	Inventory	CAT GASKET KIT	1
PP003140-S	UTILITY SPARE	Inventory	CAT HEAD GP CYLINDER	1
PP003150-S	UTILITY SPARE	Inventory	ALTORFER S.O.S. OIL SAMPLE JAR	5
PP003160-S	UTILITY SPARE	Inventory	CAT PROBE HOLDER	4
PP003170-S	UTILITY SPARE	Inventory	CAT PSI RAD CAP	2
PP003180-S	UTILITY SPARE	Inventory	CAT REGULATOR	8
PP003190-S	UTILITY SPARE	Inventory	CAT REGULATOR - TE	2
PP003200-S	UTILITY SPARE	Inventory	CAT SEAL	3
PP003210-S	UTILITY SPARE	Inventory	CAT SEAL	23
PP003220-S	UTILITY SPARE	Inventory	CAT SEAL	1
PP003230-S	UTILITY SPARE	Inventory	CAT SEAL	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP003240-S	UTILITY SPARE	Inventory	CAT SEAL	1
PP003250-S	UTILITY SPARE	Inventory	CAT SEAL	1
PP003260-S	UTILITY SPARE	Inventory	CAT SEAL	10
PP003270-S	UTILITY SPARE	Inventory	CAT SEAL INTEGRAL	1
PP003280-S	UTILITY SPARE	Inventory	CAT SEAL LINER	8
PP003290-S	UTILITY SPARE	Inventory	CAT SEAL O RING	1
PP003300-S	UTILITY SPARE	Inventory	CAT SEAL O RING	1
PP003310-S	UTILITY SPARE	Inventory	CAT SEAL O RING	1
PP003320-S	UTILITY SPARE	Inventory	CAT SEAL O RING	4
PP003330-S	UTILITY SPARE	Inventory	CAT SEAL O RING	5
PP003340-S	UTILITY SPARE	Inventory	CAT SEAL O RING	5
PP003350-S	UTILITY SPARE	Inventory	CAT SEAL O RING	2
PP003360-S	UTILITY SPARE	Inventory	CAT SEAL O RING	1
PP003370-S	UTILITY SPARE	Inventory	CAT SEAL O RING	5
PP003380-S	UTILITY SPARE	Inventory	CAT SEAL O RING	3
PP003390-S	UTILITY SPARE	Inventory	CAT SEAL O RING	1
PP003400-S	UTILITY SPARE	Inventory	CAT SEAL O RING	4
PP003410-S	UTILITY SPARE	Inventory	CAT SEAL O RING	10
PP003420-S	UTILITY SPARE	Inventory	CAT SEAL O RING	2
PP003430-S	UTILITY SPARE	Inventory	CAT SEALS	8
PP003440-S	UTILITY SPARE	Inventory	CAT SENSOR A	1
PP003450-S	UTILITY SPARE	Inventory	CAT SENSOR GP - PR	1
PP003460-S	UTILITY SPARE	Inventory	CAT SENSOR GP - TE	3
PP003470-S	UTILITY SPARE	Inventory	CAT SENSOR GP - TE	1
PP003480-S	UTILITY SPARE	Inventory	CAT SENSOR GP 130-8299	1
PP003490-S	UTILITY SPARE	Inventory	CAT SENSOR GP SP	1
PP003500-S	UTILITY SPARE	Inventory	CAT SENSOR GP-I	1
PP003510-S	UTILITY SPARE	Inventory	CAT SENSOR GP-PR	1
PP003520-S	UTILITY SPARE	Inventory	CAT SENSOR GP-PR	1
PP003530-S	UTILITY SPARE	Inventory	CAT SENSOR GRP	1
PP003540-S	UTILITY SPARE	Inventory	CAT SENSOR PG	1
PP003550-S	UTILITY SPARE	Inventory	CAT SPARK PLUG	20
PP003560-S	UTILITY SPARE	Inventory	CAT SPRING	20
PP003570-S	UTILITY SPARE	Inventory	CAT THERMOSTAT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP003580-S	UTILITY SPARE	Inventory	CAT THERMOSTAT	1
PP003590-S	UTILITY SPARE	Inventory	CAT TRANSFORMER	1
PP003600-S	UTILITY SPARE	Inventory	CAT WATER PUMP	1
PP003610-S	UTILITY SPARE	Inventory	CAT ENGINE AIR FILTER	2
PP003620-S	UTILITY SPARE	Inventory	CAT TURBOCHARGER CARTRIDGE GP	1
PP003630-S	UTILITY SPARE	Inventory	CAT WATER PUMP GP	1
PP003640-S	UTILITY SPARE	Inventory	CHAIN PULLER	1
PP003650-S	UTILITY SPARE	Inventory	U.S. TSUBAKI INC CHAIN DETACHER	1
PP003660-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MOTOR PROTECTION CIRCUIT BREAKER	1
PP003670-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MOTOR PROTECTION CIRCUIT BREAKER	1
PP003680-S	UTILITY SPARE	Inventory	CIRCUIT BREAKERS, WIRE	60
PP003690-S	UTILITY SPARE	Inventory	GE CIRCUIT BREAKER LUG	12
PP003700-S	UTILITY SPARE	Inventory	GE CIRCUIT BREAKER RATING PLUG	1
PP003710-S	UTILITY SPARE	Inventory	GE GROUND BREAK RELAY	1
PP003720-S	UTILITY SPARE	Inventory	GE GROUND-BREAK SENSOR	1
PP003730-S	UTILITY SPARE	Inventory	HUBBELL CIRCUIT GUARD GFCI UNIT	2
PP003740-S	UTILITY SPARE	Inventory	POWER FIRST 18" GFCI CORD	7
PP003750-S	UTILITY SPARE	Inventory	SQUARE D BOLT-ON CIRCUIT BREAKER	2
PP003760-S	UTILITY SPARE	Inventory	SQUARE D CIRCUIT BREAKER LUG	3
PP003770-S	UTILITY SPARE	Inventory	TERMINAL LUG KIT	6
PP003780-S	UTILITY SPARE	Inventory	TSUBAKI SHOCK RELAY	1
PP003790-S	UTILITY SPARE	Inventory	WESTINGHOUSE CIRCUIT BREAKER	2
PP003800-S	UTILITY SPARE	Inventory	CUTLER-HAMMER CIRCUIT BREAKER 60A	1
PP003810-S	UTILITY SPARE	Inventory	CUTLER-HAMMER SERIES 3 MOTOR CIRCUIT PROTECTOR 30A	1
PP003820-S	UTILITY SPARE	Inventory	GENERAL ELECTRIC CIRCUIT BREAKER 15A	1
PP003830-S	UTILITY SPARE	Inventory	GENERAL ELECTRICS 8 CIRCUIT LOAD CENTER	1
PP003840-S	UTILITY SPARE	Inventory	MAG-GARD TRIP CIRCUIT BREAKER	4
PP003850-S	UTILITY SPARE	Inventory	SQUARE D CIRCUIT BREAKER 125A	1
PP003860-S	UTILITY SPARE	Inventory	SQUARE D CIRCUIT BREAKER 15A	1
PP003870-S	UTILITY SPARE	Inventory	SQUARE D CIRCUIT BREAKER 20A	3
PP003880-S	UTILITY SPARE	Inventory	SQUARE D CONTROL CIRCUIT RATING A600	1
PP003890-S	UTILITY SPARE	Inventory	SQUARE D ENCLOSED CIRCUIT BREAKER	2
PP003900-S	UTILITY SPARE	Inventory	SQUARE D GROUND FAULT / BREAKER 100A	1
PP003910-S	UTILITY SPARE	Inventory	SQUARE D GROUND FAULT / BREAKER 150A	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP003920-S	UTILITY SPARE	Inventory	SQUARE D GROUND FAULT MODULE 100A	2
PP003930-S	UTILITY SPARE	Inventory	SQUARE D GROUND FAULT MODULE 250A	3
PP003940-S	UTILITY SPARE	Inventory	SQUARE D MAG-GARD MOTOR CIRCUIT PROTECTOR 400A	1
PP003950-S	UTILITY SPARE	Inventory	SQUARE D MAG-GARD MOTOR CIRCUIT PROTECTOR 50A	1
PP003960-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 100A	1
PP003970-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 100A	9
PP003980-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 150A	1
PP003990-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 150A	1
PP004000-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 20A	6
PP004010-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 30A	6
PP004020-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 40A	1
PP004030-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 50A	7
PP004040-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE CIRCUIT BREAKER 60A	2
PP004050-S	UTILITY SPARE	Inventory	SQUARE D POWER PACT CIRCUIT BREAKER 250A	1
PP004060-S	UTILITY SPARE	Inventory	SQUARE D POWER PACT CIRCUIT BREAKER 30A	1
PP004070-S	UTILITY SPARE	Inventory	SQUARE D THERMAL-MAGNETIC CIRCUIT BREAKER 125A	1
PP004080-S	UTILITY SPARE	Inventory	SQUARE D THERMAL-MAGNETIC CIRCUIT BREAKER 500A	1
PP004090-S	UTILITY SPARE	Inventory	WESTINGHOUSE C MOTOR CIRCUIT PROECTOR	2
PP004100-S	UTILITY SPARE	Inventory	WESTINGHOUSE MOTOR CIRCUIT PROTECTOR 15A	1
PP004110-S	UTILITY SPARE	Inventory	WESTINGHOUSE SERIES 3 INDUSTRIAL CIRCUIT BREAKER 15A	1
PP004120-S	UTILITY SPARE	Inventory	WESTINGHOUSE SERIES 3 INDUSTRIAL CIRCUIT BREAKER 60A	1
PP004130-S	UTILITY SPARE	Inventory	WESTINGHOUSE SERIES 3 MOTOR CIRCUIT PROTECTOR 15A	1
PP004140-S	UTILITY SPARE	Inventory	WESTINGHOUSE SERIES 3 MOTOR CIRCUIT PROTECTOR 3A	2
PP004150-S	UTILITY SPARE	Inventory	WESTINGHOUSE SERIES 3 MOTOR CIRCUIT PROTECTOR 7A	2
PP004160-S	UTILITY SPARE	Inventory	SUNNYSIDE DENATURED ETHYL ALCOHOL 1 QT. CAN	6
PP004170-S	UTILITY SPARE	Inventory	STACK PAD SHOP RAGS	1
PP004180-S	UTILITY SPARE	Inventory	BOILER 11 TKK 26X20 GRANULATOR RING HAMMER	16
PP004190-S	UTILITY SPARE	Inventory	BOILER 11 TKK 26X20 GRANULATOR SUSPENSION BAR	4
PP004200-S	UTILITY SPARE	Inventory	COAL SAMPLER CHISEL NOSE	1
PP004210-S	UTILITY SPARE	Inventory	PARKER BOILER 11 COAL SAMPLER PART	1
PP004220-S	UTILITY SPARE	Inventory	KOAL KING GRANULATOR	1
PP004230-S	UTILITY SPARE	Inventory	UNITED CONVEYOR CORPORATION 18"X18" CRUSHER	2
PP004240-S	UTILITY SPARE	Inventory	ATKINSON DYNAMICS INDUSTRIAL INTERCOM	2
PP004250-S	UTILITY SPARE	Inventory	EDWARDS ADAPTABEL 4# BELL	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP004260-S	UTILITY SPARE	Inventory	EDWARDS ADAPTAHORN SURFACE HORN	1
PP004270-S	UTILITY SPARE	Inventory	FEDERAL VIBRATONE HORN	1
PP004280-S	UTILITY SPARE	Inventory	THOMAS COMPRESSOR SERVICE KIT	5
PP004300-S	UTILITY SPARE	Inventory	SULLAIR OIL FILTER	1
PP004310-S	UTILITY SPARE	Inventory	SULLAIR BLT ADJ SULLICON SPRING	2
PP004320-S	UTILITY SPARE	Inventory	SULLAIR CABINET FAN	1
PP004330-S	UTILITY SPARE	Inventory	SULLAIR COMPRESSOR FILTER	2
PP004340-S	UTILITY SPARE	Inventory	SULLAIR CONNECTOR MALE 1/4 TUBE 1/4	6
PP004350-S	UTILITY SPARE	Inventory	SULLAIR CONNECTOR MALE 1/4 TUBE 1/8	7
PP004360-S	UTILITY SPARE	Inventory	SULLAIR CTL PARTS SULLICON CTL	3
PP004370-S	UTILITY SPARE	Inventory	SULLAIR CTL.ASY SUPV COMM MODULE	1
PP004390-S	UTILITY SPARE	Inventory	SULLAIR GASKET FLEXMASTER 3	10
PP004400-S	UTILITY SPARE	Inventory	SULLAIR GASKET FLEXMASTER 3.5	4
PP004410-S	UTILITY SPARE	Inventory	SULLAIR GASKET FLEXMASTER 4	8
PP004420-S	UTILITY SPARE	Inventory	SULLAIR HUB DRIVE COUPLING	1
PP004430-S	UTILITY SPARE	Inventory	SULLAIR HUB COMPRESSOR 10SH	1
PP004440-S	UTILITY SPARE	Inventory	SULLAIR HUB DRIVE COUPLING	1
PP004450-S	UTILITY SPARE	Inventory	SULLAIR HUB, MOTOR #3, 4, 5	1
PP004460-S	UTILITY SPARE	Inventory	SULLAIR KIT REPL-SEAL3.3781 VIT SGL	1
PP004470-S	UTILITY SPARE	Inventory	SULLAIR LOVEJOY COUPLING	1
PP004480-S	UTILITY SPARE	Inventory	SULLAIR NYLON TUBE	1
PP004490-S	UTILITY SPARE	Inventory	SULLAIR PIN YOKE	2
PP004500-S	UTILITY SPARE	Inventory	SULLAIR RATIOMETRIC 0-250# TRANSDUCER	3
PP004510-S	UTILITY SPARE	Inventory	SULLAIR SEPERATOR INNER FILTER	1
PP004520-S	UTILITY SPARE	Inventory	SULLAIR SEPERATOR OUTER FILTER	1
PP004540-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PART BUTTERFLY VALVE 10	3
PP004550-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PART BUTTERFLY VALVE 6	3
PP004560-S	UTILITY SPARE	Inventory	SULLAIR SERVICE AIR FILTER ELEMENT COMPRESSORS # 3, 4, 5, 6	2
PP004570-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PART GASKET	9
PP004580-S	UTILITY SPARE	Inventory	SULLAIR SERVICE AIR FILTER ASSEMBLY COMPRESSORS # 3, 4, 5, 6	2
PP004590-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PART SEPARATOR ASSY	8
PP004600-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PART VALVE DIFF PRESS REG	4
PP004610-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS DIAPHRAGM REPAIR KIT	3
PP004620-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS DR COUPL-SAGE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP004630-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS FILTER ELEMENT	2
PP004640-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS GLASS SIGHT	2
PP004650-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS OIL FILTER	2
PP004660-S	UTILITY SPARE	Inventory	SULLAIR SERVICE PARTS SPG COMP	4
PP004670-S	UTILITY SPARE	Inventory	SULLAIR GAGE GLASS	1
PP004680-S	UTILITY SPARE	Inventory	SULLAIR SPRING CONTROL LIGHT	8
PP004690-S	UTILITY SPARE	Inventory	SULLAIR STRAINER REPLACEMENT	2
PP004700-S	UTILITY SPARE	Inventory	SULLAIR STRAINER VALVE	2
PP004710-S	UTILITY SPARE	Inventory	SULLAIR SUPERVISOR CONTROLLER DISPLAY MODULE	1
PP004720-S	UTILITY SPARE	Inventory	SULLAIR SUPERVISOR CONTROLLER DISPLAY MODULE KIT	1
PP004730-S	UTILITY SPARE	Inventory	SULLAIR TUBING ADAPTER L BEND	10
PP004740-S	UTILITY SPARE	Inventory	SULLAIR TUBING ADAPTER L BEND	9
PP004750-S	UTILITY SPARE	Inventory	SULLAIR TUBING ADAPTER L BEND	8
PP004760-S	UTILITY SPARE	Inventory	SULLAIR TUBING ADAPTER L BEND	6
PP004770-S	UTILITY SPARE	Inventory	SULLAIR TRANSDUCER PRESSURE	3
PP004780-S	UTILITY SPARE	Inventory	SULLAIR YOKE ROD END	2
PP004790-S	UTILITY SPARE	Inventory	THERMO VALVEPLATE	3
PP004800-S	UTILITY SPARE	Inventory	THOMAS 1/8 HP PISTON AIR COMPRESSOR/VACUUM PUMP, 115VAC, 100/100 MAX. PSI CONT./INT.	5
PP004810-S	UTILITY SPARE	Inventory	THOMAS 1/8 HP PISTON AIR COMPRESSOR/VACUUM PUMP, 115VAC, 100/100 MAX. PSI CONT./INT.	1
PP004820-S	UTILITY SPARE	Inventory	AMEC BAGHOUSE TIMER BOARDS W/O ENCLOSURE	1
PP004830-S	UTILITY SPARE	Inventory	AMETEK DUST COLLECTOR CONTROL	2
PP004840-S	UTILITY SPARE	Inventory	AMETEK PANALARM FLASHER BOARD	1
PP004850-S	UTILITY SPARE	Inventory	ATC 366 LONG RANGER	1
PP004860-S	UTILITY SPARE	Inventory	AUMA ACTUATOR LOGIC BOARD	1
PP004870-S	UTILITY SPARE	Inventory	AUMA ACTUATOR REMOTE CONTROL	4
PP004880-S	UTILITY SPARE	Inventory	MICRO TAPPER PLUS DATA TERMINAL	1
PP004890-S	UTILITY SPARE	Inventory	NCC BAGHOUSE CONTROL BOARD	1
PP004900-S	UTILITY SPARE	Inventory	PANALARM CIRCUIT	4
PP004910-S	UTILITY SPARE	Inventory	PANALARM CIRCUIT	1
PP004920-S	UTILITY SPARE	Inventory	PANALARM CIRCUIT BOARD	1
PP004930-S	UTILITY SPARE	Inventory	PANALARM CIRCUIT BOARD	5
PP004940-S	UTILITY SPARE	Inventory	PHARES ELECTRONIC TACHOMETER	1
PP004950-S	UTILITY SPARE	Inventory	PHARES ELECTRONICS TACHOMETER	2
PP004960-S	UTILITY SPARE	Inventory	PLANT WARNING SYSTEM REMOTE ACTIVATION STATION	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP004970-S	UTILITY SPARE	Inventory	PNEUMERCATOR PAPER ROLLS	2
PP004980-S	UTILITY SPARE	Inventory	PULSER BOARD	6
PP004990-S	UTILITY SPARE	Inventory	REDINGTON COUNTER	1
PP005000-S	UTILITY SPARE	Inventory	RMS 9 MICRO VERSATRIP	2
PP005010-S	UTILITY SPARE	Inventory	SCHENCK BOILER 11 FEEDER CONTROLLER RETROFIT KIT	1
PP005020-S	UTILITY SPARE	Inventory	APPLETON CONDUIT HUB	1
PP005030-S	UTILITY SPARE	Inventory	B-LINE 3/4" CONDUIT PIPE CLAMP	40
PP005040-S	UTILITY SPARE	Inventory	B-LINE 3/4" PIPE AND CONDUIT CLAMP	24
PP005050-S	UTILITY SPARE	Inventory	COOPER 3/4" 90-DEGREE CONDUIT PULL ELBOW	6
PP005060-S	UTILITY SPARE	Inventory	CROUSE-HINDS CONDUIT OUTLET BOX	6
PP005070-S	UTILITY SPARE	Inventory	CROUSE-HINDS CONDUIT OUTLET BOX	6
PP005080-S	UTILITY SPARE	Inventory	HUBBELL CONNECTOR KIT	1
PP005090-S	UTILITY SPARE	Inventory	HUBBEL-RACO 1/2" LIQUID-TIGHT CONDUIT CONNECTOR	6
PP005100-S	UTILITY SPARE	Inventory	KILLARK 3/4" TO 1/2" REDUCING BUSHING	2
PP005110-S	UTILITY SPARE	Inventory	LIQUATITE FLEXIBLE ALUMINUM CONDUIT	1
PP005130-S	UTILITY SPARE	Inventory	MINERALLAC CONDUIT HANGER	3
PP005140-S	UTILITY SPARE	Inventory	PANDUIT CORP WIRING DUCT	2
PP005150-S	UTILITY SPARE	Inventory	RIGID CONDUIT BODY 3/4" TYPE TC	3
PP005160-S	UTILITY SPARE	Inventory	THOMAS & BETTS 3/4" LIQUID-TIGHT CONDUIT CONNECTOR	20
PP005170-S	UTILITY SPARE	Inventory	3M SCOTCHLOK FEMALE DISCONNECT TERMINALS	1
PP005180-S	UTILITY SPARE	Inventory	AIM ELECTRONICS CORP 3-PIECE CRIMP CONNECTORS	15
PP005190-S	UTILITY SPARE	Inventory	BURNDY ALUMINUM UNIVERSAL TERMINAL	1
PP005200-S	UTILITY SPARE	Inventory	BURNDY COPPER COMPRESSION TERMINAL	7
PP005210-S	UTILITY SPARE	Inventory	BURNDY UNITAP CONNECTOR	1
PP005220-S	UTILITY SPARE	Inventory	ELECTRICAL COMPRESSION LUG CONNECTORS	4
PP005230-S	UTILITY SPARE	Inventory	APPLETON EXPLOSION-PROOF WALL PLUGS	18
PP005240-S	UTILITY SPARE	Inventory	HAWKE INTERNATIONAL CABLE GLAND	4
PP005250-S	UTILITY SPARE	Inventory	ILSCO MULTITAP CONNECTOR	1
PP005260-S	UTILITY SPARE	Inventory	PHOENIX CONTACT FIELD MAKE-UP ENDS	6
PP005270-S	UTILITY SPARE	Inventory	RADIOSHACK CRIMP-TYPE D-SUB CONNECTOR	1
PP005280-S	UTILITY SPARE	Inventory	SPLIT BOLT SPLICE CONNECTOR	2
PP005290-S	UTILITY SPARE	Inventory	THOMAS & BETTS RUBBER MOTOR STUB SPLICE INSULATOR	2
PP005300-S	UTILITY SPARE	Inventory	THOMAS & BETTS SPLICE INSULATOR	6
PP005310-S	UTILITY SPARE	Inventory	THOMAS & BETTS 3/4" GROUND ROD CLAMP	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP005320-S	UTILITY SPARE	Inventory	WOODHEAD WATERTITE CONNECTOR 30A 3 PHASE 480V	3
PP005330-S	UTILITY SPARE	Inventory	WOODHEAD WATERTITE PLUG 30A 3 PHASE 480V	3
PP005340-S	UTILITY SPARE	Inventory	GREEN FACTORY HANGER	200
PP005350-S	UTILITY SPARE	Inventory	ANALOG DEVICES 2B22J	4
PP005360-S	UTILITY SPARE	Inventory	MASONEILAN I/P CONTROL UNIT	1
PP005370-S	UTILITY SPARE	Inventory	CONVEYER VERTICAL COUPLING SEAL & GASKET SET	2
PP005380-S	UTILITY SPARE	Inventory	CONVEYER VERTICAL FASTENER SET	2
PP005390-S	UTILITY SPARE	Inventory	CONVEYOR STOCK TAKE-UP UNITS	4
PP005400-S	UTILITY SPARE	Inventory	ERIEZ BLR11 ASH HOPPER VIBRATOR	1
PP005410-S	UTILITY SPARE	Inventory	ERIEZ VIBRATOR	1
PP005420-S	UTILITY SPARE	Inventory	LOOP SEAL CONVEYER HEAD SHAFT	1
PP005430-S	UTILITY SPARE	Inventory	LOOP SEAL CONVEYER TAIL SHAFT	1
PP005440-S	UTILITY SPARE	Inventory	MERRICK WEIGH BELT BOARDS	2
PP005450-S	UTILITY SPARE	Inventory	MERRICK LOAD CELL	1
PP005460-S	UTILITY SPARE	Inventory	CONV BELT 5-1 25" X 973"	2
PP005470-S	UTILITY SPARE	Inventory	CONV BELT 6-1 25" X 425"	2
PP005480-S	UTILITY SPARE	Inventory	BSC BOILER 10 WEIGH FEEDER BELT	1
PP005490-S	UTILITY SPARE	Inventory	CONVEYER BELT	1
PP005500-S	UTILITY SPARE	Inventory	CONVEYER SCOOP	1
PP005510-S	UTILITY SPARE	Inventory	CONVEYER SCOOP	20
PP005520-S	UTILITY SPARE	Inventory	KICE AIRLOCK	2
PP005530-S	UTILITY SPARE	Inventory	OAT HULL ROTARY	1
PP005540-S	UTILITY SPARE	Inventory	1" TO 3/4" FNPT STAINLESS STEEL REDUCER	8
PP005550-S	UTILITY SPARE	Inventory	END ADAPTER	2
PP005560-S	UTILITY SPARE	Inventory	FOSTER WHEELER CENTER ASH DRAIN PIPE REDUCER	1
PP005570-S	UTILITY SPARE	Inventory	MORRIS COUPLING	4
PP005580-S	UTILITY SPARE	Inventory	PT COUPLING CO AWB COUPLING	1
PP005590-S	UTILITY SPARE	Inventory	SCHIMBERG "C" FLOOR PIPE REDUCER COUPLING	1
PP005600-S	UTILITY SPARE	Inventory	SPENCE UNIFLEX PIPE COUPLING	22
PP005610-S	UTILITY SPARE	Inventory	SPENCE UNIFLEX PIPE COUPLING	18
PP005620-S	UTILITY SPARE	Inventory	VIRAJ 6" 150 COUPLING	1
PP005630-S	UTILITY SPARE	Inventory	DRESSER PRESSURE PIPE COUPLING	2
PP005640-S	UTILITY SPARE	Inventory	PIPING REDUCERS AND FLANGES	5
PP005650-S	UTILITY SPARE	Inventory	SMITH BLAIR COUPLING	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP005660-S	UTILITY SPARE	Inventory	KICE 8.625" COMPRESSION COUPLING	26
PP005670-S	UTILITY SPARE	Inventory	METFLO 5" COMPRESSION COUPLING	6
PP005680-S	UTILITY SPARE	Inventory	MORRIS 5" COMPRESSION COUPLING	3
PP005690-S	UTILITY SPARE	Inventory	MORRIS 5.563" COMPRESSION COUPLING	2
PP005700-S	UTILITY SPARE	Inventory	PIPING JOINT	2
PP005710-S	UTILITY SPARE	Inventory	ROMAC 1" COMPRESSION COUPLING	2
PP005720-S	UTILITY SPARE	Inventory	ROMAC 10.7-11.1" COMPRESSION COUPLING	1
PP005730-S	UTILITY SPARE	Inventory	ROMAC 2" COMPRESSION COUPLING	1
PP005740-S	UTILITY SPARE	Inventory	ROMAC 4" COMPRESSION COUPLING	2
PP005750-S	UTILITY SPARE	Inventory	ROMAC 6.6-7" COMPRESSION COUPLING	1
PP005760-S	UTILITY SPARE	Inventory	ROMAC 8.6-9" COMPRESSION COUPLING	1
PP005770-S	UTILITY SPARE	Inventory	SMITH-BLAIR 13.1-13.5" COMPRESSION COUPLING	1
PP005780-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY WIRE CUTTER	2
PP005790-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 18" FLAT PANEL MONITOR TEMPLATE	1
PP005800-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PANELVIEW 1000	3
PP005810-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 20" FLATPANEL	1
PP005820-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DISPLAY PANEL (FITS ALLEN-BRADLEY POWERFLEX 40)	1
PP005830-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PANELVIEW PLUS 600	1
PP005840-S	UTILITY SPARE	Inventory	GRALEX DIGITAL PANEL METER	2
PP005850-S	UTILITY SPARE	Inventory	FIREYE DISPLAY MODULE	1
PP005860-S	UTILITY SPARE	Inventory	GE FANUC QUICKPANEL DISPLAY	1
PP005870-S	UTILITY SPARE	Inventory	ORTEX PANEL METER	1
PP005880-S	UTILITY SPARE	Inventory	DRC BOILER 10 COAL	1
PP005890-S	UTILITY SPARE	Inventory	DRC SPARE PARTS	1
PP005900-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERFLEX 70 AC DRIVE	1
PP005910-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC DRIVE POWERFLEX 40	1
PP005920-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERFLEX 700 AC DRIVE	1
PP005930-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERFLEX 700 AC DRIVE	1
PP005940-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERFLEX CONTROL MODULE	1
PP005950-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SMC-FLEX MODULE	2
PP005960-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY VARIABLE SPEED CONTROLLER	1
PP005970-S	UTILITY SPARE	Inventory	BOILER 10 VFD PARTS BOX	3
PP005980-S	UTILITY SPARE	Inventory	TOSHIBA CIRCUIT BOARD SNUBBER ASSEMBLY	3
PP005990-S	UTILITY SPARE	Inventory	TOSHIBA CONTROL BOARD	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP006000-S	UTILITY SPARE	Inventory	TOSHIBA DRIVE PARTS	2
PP006010-S	UTILITY SPARE	Inventory	TOSHIBA DRIVE TERMINAL BOARD	1
PP006020-S	UTILITY SPARE	Inventory	TOSHIBA DRIVER BOARD ASSEMBLY	1
PP006030-S	UTILITY SPARE	Inventory	TOSHIBA FD FAN SPARE CONTROL BOARD	2
PP006040-S	UTILITY SPARE	Inventory	TOSHIBA INTERFACE BOARD	1
PP006050-S	UTILITY SPARE	Inventory	TOSHIBA PC BOARD	1
PP006060-S	UTILITY SPARE	Inventory	TOSHIBA PC CONTROL BOARD	1
PP006070-S	UTILITY SPARE	Inventory	TOSHIBA PC CONTROL BOARD	1
PP006080-S	UTILITY SPARE	Inventory	TOSHIBA PCB 579 SOFT ST CONNECT	2
PP006090-S	UTILITY SPARE	Inventory	TOSHIBA PRINTED CIRCUIT BOARD	2
PP006100-S	UTILITY SPARE	Inventory	TOSHIBA PWB G7 INV GATE DRIVE	2
PP006110-S	UTILITY SPARE	Inventory	TOSHIBA PWD CONTROL 7-SERIES	1
PP006120-S	UTILITY SPARE	Inventory	TOSHIBA REV D KEYPAD DISPLAY PANEL	2
PP006130-S	UTILITY SPARE	Inventory	TOSHIBA SA CONNECTOR	1
PP006140-S	UTILITY SPARE	Inventory	TOSHIBA SPEED SEARCH PWB	1
PP006150-S	UTILITY SPARE	Inventory	ROLLED ALLOY AND PARAISH DRIVE	1
PP006160-S	UTILITY SPARE	Inventory	ADALET 4 WAY OUTLET BOX	2
PP006170-S	UTILITY SPARE	Inventory	CROUSE-HINDS 20A 125V SINGLE GANG DEAD END RECEPTACLE ASSEMBLY	2
PP006180-S	UTILITY SPARE	Inventory	DONALDSON JUNCTION BOX 12 TERMINAL DFT	2
PP006190-S	UTILITY SPARE	Inventory	HOFFMAN ALUMINUM JUNCTION BOX PANEL	1
PP006200-S	UTILITY SPARE	Inventory	WIEGMANN SCREW COVER BOX	1
PP006210-S	UTILITY SPARE	Inventory	COEN ELECTRIC BOX	1
PP006220-S	UTILITY SPARE	Inventory	TOSHIBA ELECTRICAL HOUSING HUB	2
PP006230-S	UTILITY SPARE	Inventory	WIEGMANN INDUSTRIAL CONTROL PANEL	1
PP006240-S	UTILITY SPARE	Inventory	UL UNDERGROUND ENCLOSURE	1
PP006250-S	UTILITY SPARE	Inventory	GARLOCK 206 EZ FLOW EXPANSION JOINT	1
PP006260-S	UTILITY SPARE	Inventory	GARLOCK EXPANSION JOINT ID:6" OD:11"	1
PP006270-S	UTILITY SPARE	Inventory	LOOP SEAL "S" RUBBER EXPANSION BOOT	1
PP006280-S	UTILITY SPARE	Inventory	PROCO PRODUCTS STYLE 231	1
PP006290-S	UTILITY SPARE	Inventory	UCC EXPANSION JOINT	1
PP006300-S	UTILITY SPARE	Inventory	BOILER 11 SPARE EXPANSION JOINTS	2
PP006310-S	UTILITY SPARE	Inventory	EXPANSION JOINT	2
PP006320-S	UTILITY SPARE	Inventory	EXPANSION JOINT	1
PP006330-S	UTILITY SPARE	Inventory	EXPANSION JOINT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP006340-S	UTILITY SPARE	Inventory	EXPANSION JOINT SEGMENT CLAMP	2
PP006350-S	UTILITY SPARE	Inventory	GARFLEX GARLOCK 8"-6" CONNECTOR	1
PP006360-S	UTILITY SPARE	Inventory	GARLOCK EZ-FLO HEAVWEIGHT EXPANSION JOINT	1
PP006370-S	UTILITY SPARE	Inventory	GARLOCK GARFLEX CONNECTOR	2
PP006380-S	UTILITY SPARE	Inventory	GARLOCK RUBBER EXPANSION JOINT	3
PP006390-S	UTILITY SPARE	Inventory	GENERAL RUBBER EXPANSION JOINT	1
PP006400-S	UTILITY SPARE	Inventory	PROCO 8" - 200 MM EXPANSION JOINT	1
PP006410-S	UTILITY SPARE	Inventory	PROCO EXPANSION JOINT	1
PP006420-S	UTILITY SPARE	Inventory	PROCO PRODUCTS 3" EXPANSION JOINT	1
PP006430-S	UTILITY SPARE	Inventory	PROCO PRODUCTS EXPANSION JOINT	2
PP006440-S	UTILITY SPARE	Inventory	RED VALVE EXPANSION JOINT	2
PP006450-S	UTILITY SPARE	Inventory	UNAFLEX EXPANSION JOINT	1
PP006460-S	UTILITY SPARE	Inventory	BADGER EXPANISON JOINT	1
PP006470-S	UTILITY SPARE	Inventory	EXHASUTER EXP JOINT UPPER	3
PP006480-S	UTILITY SPARE	Inventory	OSECO CRV TYPE EXPLOSION VENT (OAT HULL UNLOADING SYSTEM)	2
PP006490-S	UTILITY SPARE	Inventory	COMAIR ROTRON FEATHER FAN	1
PP006500-S	UTILITY SPARE	Inventory	COMAIR ROTRON SPRITE ELECTRIC FAN	1
PP006510-S	UTILITY SPARE	Inventory	COMAIR ROTRON TARZAN ELECTRIC FAN	2
PP006520-S	UTILITY SPARE	Inventory	DAYTON AC AXIAL FAN	2
PP006540-S	UTILITY SPARE	Inventory	DAYTON FAN BLADE PROPELLER 18"	2
PP006550-S	UTILITY SPARE	Inventory	EBM FAN AND FILTER UNIT	1
PP006560-S	UTILITY SPARE	Inventory	ECOFIT FAN	2
PP006570-S	UTILITY SPARE	Inventory	ELECTRIC MOTORS COOLING FAN FREIGHT	1
PP006580-S	UTILITY SPARE	Inventory	ETRI ELECTRIC FAN	2
PP006590-S	UTILITY SPARE	Inventory	ETRI ELECTRIC FAN	4
PP006600-S	UTILITY SPARE	Inventory	HOFFMAN BALL BEARING ELECTRIC FAN	2
PP006610-S	UTILITY SPARE	Inventory	HOFFMAN FAN GRATE	2
PP006620-S	UTILITY SPARE	Inventory	ORION AC FAN	3
PP006650-S	UTILITY SPARE	Inventory	8" ROUND AIR FILTER	1
PP006660-S	UTILITY SPARE	Inventory	AIR HANDLER 16X20X1 HC PLEATED MERV 11 AIR FILTER	7
PP006670-S	UTILITY SPARE	Inventory	AIR HANDLER 12X24X1 SC PLEATED MERV 7 AIR FILTER	56
PP006680-S	UTILITY SPARE	Inventory	AIR HANDLER 16X16X1 ANTI-MICROBIAL PLEATED MERV 8 AIR FILTER	3
PP006690-S	UTILITY SPARE	Inventory	AIR HANDLER 16X30X1 HC PLEATED MERV 8 AIR FILTER	9
PP006700-S	UTILITY SPARE	Inventory	AIR HANDLER 12X12 PSF MEDIA PAD 5DT FILTER	42

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP006710-S	UTILITY SPARE	Inventory	AIR HANDLER 16X24X1 HC PLEATED MERV 11 AIR FILTER	12
PP006740-S	UTILITY SPARE	Inventory	AIR HANDLER 24X24X2 HC PLEATED MERV 8 AIR FILTER	30
PP006750-S	UTILITY SPARE	Inventory	AQUA-PURE WATER FILTER CARTRIDGE	11
PP006760-S	UTILITY SPARE	Inventory	ASCO JOUCOMATIC FILTER REGULATOR	1
PP006770-S	UTILITY SPARE	Inventory	BAGCORP COATED DUFFLE TOP SPOUT BOTTOM BAG FIBC	15
PP006780-S	UTILITY SPARE	Inventory	BALSTON FILTER REGULATOR	1
PP006790-S	UTILITY SPARE	Inventory	BWF BAGHOUSE BAGS	2
PP006800-S	UTILITY SPARE	Inventory	COLE-PARMER FILTER MEMBRANE	10
PP006810-S	UTILITY SPARE	Inventory	CONCOA REGULATOR	1
PP006820-S	UTILITY SPARE	Inventory	DELTECH COMPRESSED AIR FILTER	6
PP006850-S	UTILITY SPARE	Inventory	EXAIR 1/4 FILTER SEPERATOR	1
PP006860-S	UTILITY SPARE	Inventory	AIR HANDLER 20X20 FILTER MEDIA PAD POLYESTER	40
PP006870-S	UTILITY SPARE	Inventory	FISHER FILTER REGULATOR	3
PP006880-S	UTILITY SPARE	Inventory	FLUITEK AIR FILTER (TYPE 2)	3
PP006890-S	UTILITY SPARE	Inventory	GARDNER DENVER LOOP SEAL BLOWER AIR FILTER	2
PP006920-S	UTILITY SPARE	Inventory	GLASFLOSS 24X24 POLY PAD	10
PP006930-S	UTILITY SPARE	Inventory	H2O INNOVATION H2O 130 CARTRIDGE FILTER	40
PP006940-S	UTILITY SPARE	Inventory	ISOPUR 200 SERIES COALESCER CARTRIDGE	8
PP006950-S	UTILITY SPARE	Inventory	ISOPUR 200 SERIES COLLECTION CARTRIDGE	6
PP006960-S	UTILITY SPARE	Inventory	ISOPUR 200 SERIES PRE-FILTER CARTRIDGE	6
PP006970-S	UTILITY SPARE	Inventory	KICE BAGHOUSE BAG 50" LENGTH	60
PP006980-S	UTILITY SPARE	Inventory	KICE FILTER INSERTS	3
PP007010-S	UTILITY SPARE	Inventory	MASONELIAN FILTER REGULATOR KIT	1
PP007020-S	UTILITY SPARE	Inventory	MONNIER FILTER REGULATOR	4
PP007030-S	UTILITY SPARE	Inventory	MR.50% 4X2' ADHESIVE-BACKED 1/2" FOAM SHEET	4
PP007040-S	UTILITY SPARE	Inventory	NFM FILTER BAG	100
PP007050-S	UTILITY SPARE	Inventory	NORGREN AIR FILTER	2
PP007060-S	UTILITY SPARE	Inventory	NUGENT TG 1 TANK FILTER BAGS	12
PP007070-S	UTILITY SPARE	Inventory	OAT HULL UNLOADING BAGHOUSE CAGES	9
PP007080-S	UTILITY SPARE	Inventory	PARKER PLEATED COALESCER FILTER	4
PP007090-S	UTILITY SPARE	Inventory	PRIME LINE NUGENT TANK AIR FILTER	2
PP007100-S	UTILITY SPARE	Inventory	RITTAL OPEN CELL POLYURETHANE FILTER MAT	3
PP007110-S	UTILITY SPARE	Inventory	SIDE STREAM FILTERS SIZE 9	11
PP007120-S	UTILITY SPARE	Inventory	TELEDYNE AIR FILTERS	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP007130-S	UTILITY SPARE	Inventory	TELEDYNE FILTER ASSEMBLY	1
PP007140-S	UTILITY SPARE	Inventory	THERMO SCIENTIFIC CO FILTER WHEEL	3
PP007150-S	UTILITY SPARE	Inventory	TOSHIBA FILTER	1
PP007170-S	UTILITY SPARE	Inventory	TRUEBLUE 16X20X1 AIR FILTER	1
PP007180-S	UTILITY SPARE	Inventory	VANIMAN FILTER BAG	5
PP007190-S	UTILITY SPARE	Inventory	SOLBERG AIR FILTER SULLAIR 1&2	4
PP007200-S	UTILITY SPARE	Inventory	WALTRON PLASTIC SGL FILTER HOUSING	1
PP007210-S	UTILITY SPARE	Inventory	ITASCA CARTRIDGE FILTER	400
PP007220-S	UTILITY SPARE	Inventory	KICE INDUSTRIES UNLOADING CASE 48"	45
PP007230-S	UTILITY SPARE	Inventory	PENTAIR BAGFILTER HOUSING	4
PP007240-S	UTILITY SPARE	Inventory	PENTAIR INDUSTRIAL MESH FILTER	10
PP007250-S	UTILITY SPARE	Inventory	72" BAG CAGE	9
PP007260-S	UTILITY SPARE	Inventory	BACKWASH SCREEN	6
PP007270-S	UTILITY SPARE	Inventory	BAGHOUSE CAGES BOILER 11	6
PP007280-S	UTILITY SPARE	Inventory	BWF 30LB WHITE PRE-COAT	60
PP007290-S	UTILITY SPARE	Inventory	BWF BAGHOUSE BAGS 169"	900
PP007300-S	UTILITY SPARE	Inventory	GEOTECH ENVIROMENTAL FILTER SCAVENGER	1
PP007310-S	UTILITY SPARE	Inventory	KICE BAGHOUSE CAGE	35
PP007320-S	UTILITY SPARE	Inventory	MIDWESCO DRC BAGS	2
PP007330-S	UTILITY SPARE	Inventory	SUPPRESOR 1615 FOAM CONTROL AGENT	2
PP007360-S	UTILITY SPARE	Inventory	HAYWORD BULKHEAD FITTING	4
PP007370-S	UTILITY SPARE	Inventory	JOHN GUESS STRAIGHT UNION 3/8"	7
PP007380-S	UTILITY SPARE	Inventory	KILLARK DRAIN/BREATHER	3
PP007390-S	UTILITY SPARE	Inventory	KILLARK PACKING FIBER	1
PP007400-S	UTILITY SPARE	Inventory	KILLARK SEALING FITTING	1
PP007410-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX PIPE UNION GASKET FOR 1/2" PIPE 304/FC	16
PP007420-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 1" PIPE 304/FC	8
PP007430-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 1" PIPE 304/FC	9
PP007440-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 1-1/2" PIPE 304/FC	16
PP007450-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 1-1/4" PIPE 304/FC	12
PP007460-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 2" PIPE 304/FC	5
PP007470-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 3/4" PIPE 304/FC	16
PP007480-S	UTILITY SPARE	Inventory	NICHOLSON UNIFLEX UNION GASKET FOR 3/4" PIPE 304/FC	9
PP007490-S	UTILITY SPARE	Inventory	NYLON COMPRESSION UNION, 1/2" X 3/8" TUBE SIZE	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP007500-S	UTILITY SPARE	Inventory	PARKER COMPRESSION STRAIGHT REDUCER	5
PP007510-S	UTILITY SPARE	Inventory	PLASTIC PIPE FITTINGS	6
PP007520-S	UTILITY SPARE	Inventory	PVC ACCESSORIES DOUBLE CONTAINMENT	1
PP007530-S	UTILITY SPARE	Inventory	PVC T-PIPE 1 3/4"	2
PP007540-S	UTILITY SPARE	Inventory	SIOUX CHIEF WATER HAMMER ARRESTOR	1
PP007550-S	UTILITY SPARE	Inventory	SPEARS 1.5"X3" 90° DC PVC ELBOW	9
PP007560-S	UTILITY SPARE	Inventory	SPEARS 1"X3" 90° DC PVC ELBOW	1
PP007570-S	UTILITY SPARE	Inventory	SPEARS 1"X3" PVC DC CENTRALIZER	16
PP007580-S	UTILITY SPARE	Inventory	SPEARS 1.5"X3" DC PVC TEE	1
PP007590-S	UTILITY SPARE	Inventory	SPEARS 1.5"X3" PVC DC CENTRALIZER	10
PP007600-S	UTILITY SPARE	Inventory	SPEARS 2" 30 DEGREE ELBOW PVC	1
PP007610-S	UTILITY SPARE	Inventory	SPEARS 2" 90 DEGREE ELBOW PVC	2
PP007620-S	UTILITY SPARE	Inventory	SPEARS 2" PVC UNION WITH O-RING	2
PP007630-S	UTILITY SPARE	Inventory	SPEARS 3" PVC COUPLING	4
PP007640-S	UTILITY SPARE	Inventory	SPEARS IPS PVC 1 1/2"	2
PP007650-S	UTILITY SPARE	Inventory	SWAGELOK 1/2" T X 1/2" MPT CONNECTOR	3
PP007660-S	UTILITY SPARE	Inventory	SWAGELOK 1/2" TUBE UNION ELBOW	2
PP007670-S	UTILITY SPARE	Inventory	SWAGELOK 7/8" FRONT FERRULE	1
PP007680-S	UTILITY SPARE	Inventory	SWAGELOK REDUCING ADAPTER, FEMALE TO MALE	2
PP007690-S	UTILITY SPARE	Inventory	SWAGELOK STAINLESS STEEL POPPET CHECK VALVE 3/8 IN	2
PP007700-S	UTILITY SPARE	Inventory	SWAGELOK TUBE FITTING, FEMALE CONNECTOR	2
PP007710-S	UTILITY SPARE	Inventory	SWAGELOK TUBE FITTING, MALE BRANCH	3
PP007720-S	UTILITY SPARE	Inventory	SWAGELOK TUBE FITTING, MALE CONNECTOR	7
PP007730-S	UTILITY SPARE	Inventory	SWAGELOK TUBE FITTING, MALE CONNECTOR	16
PP007740-S	UTILITY SPARE	Inventory	SWAGELOK TUBE FITTING, UNION	2
PP007750-S	UTILITY SPARE	Inventory	THOGUS 1/2" FNPT X 1/4" BARB NYLON FITTING	7
PP007760-S	UTILITY SPARE	Inventory	UNIFLEX UNION GASKET SPL WND 1.06"X1.51"X0.125" TK	14
PP007770-S	UTILITY SPARE	Inventory	UNIFLEX UNION GASKET SPL WND 1.31"X1.76"X0.125" TK	4
PP007780-S	UTILITY SPARE	Inventory	UNIFLEX UNION GASKET SPL WND 1.81"X2.26"X0.125" TK	29
PP007790-S	UTILITY SPARE	Inventory	UNIFLEX UNION GASKET SPL WND 2.06"X2.51"X0.125" TK	19
PP007800-S	UTILITY SPARE	Inventory	WATTS AIR GAP	1
PP007810-S	UTILITY SPARE	Inventory	90 DEGREE ELBOW	8
PP007820-S	UTILITY SPARE	Inventory	AIR BLASTER COUPLING	8
PP007830-S	UTILITY SPARE	Inventory	PIPE CONNECTOR	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP007840-S	UTILITY SPARE	Inventory	30 DEGREE PIPE CONNECTOR	1
PP007850-S	UTILITY SPARE	Inventory	PVC PARTS	1
PP007860-S	UTILITY SPARE	Inventory	1" 600 PSI END FLANGE	2
PP007870-S	UTILITY SPARE	Inventory	7.5" SPEARS PVC FLANGE	1
PP007880-S	UTILITY SPARE	Inventory	FLANGE	2
PP007890-S	UTILITY SPARE	Inventory	FLANGE	1
PP007900-S	UTILITY SPARE	Inventory	13" FLANGE	4
PP007910-S	UTILITY SPARE	Inventory	FLANGE AND GASKET	6
PP007920-S	UTILITY SPARE	Inventory	FLUID FUNNEL	2
PP007930-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY FUSES	4
PP007940-S	UTILITY SPARE	Inventory	BENTLY NEVADA FUSES	2
PP007950-S	UTILITY SPARE	Inventory	BUSS FAST ACTING INDICATING FUSE	28
PP007960-S	UTILITY SPARE	Inventory	BUSS FUSE CLIP	10
PP007970-S	UTILITY SPARE	Inventory	BUSS FUSTAT FUSE HOLDER	1
PP007980-S	UTILITY SPARE	Inventory	BUSS GMW TELECOM 1/2A FUSE	15
PP007990-S	UTILITY SPARE	Inventory	BUSSMANN FUSE	4
PP008000-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT FUSE	1
PP008010-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT FUSE	1
PP008020-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT FUSE	1
PP008030-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT PROTISTOR	3
PP008040-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT TIME DELAY	2
PP008050-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT TIME DELAY CLASS CC FUSE	2
PP008060-S	UTILITY SPARE	Inventory	FUSE HOLDER	3
PP008070-S	UTILITY SPARE	Inventory	LITTELFUSE CURRENT LIMITING FUSE	3
PP008080-S	UTILITY SPARE	Inventory	LITTELFUSE CURRENT LIMITING FUSE	3
PP008090-S	UTILITY SPARE	Inventory	LITTELFUSE FUSE	5
PP008100-S	UTILITY SPARE	Inventory	LITTELFUSE TIME DELAY FUSE	2
PP008110-S	UTILITY SPARE	Inventory	LITTELFUSE TIME DELAY CURRENT LIMITING FUSE	3
PP008120-S	UTILITY SPARE	Inventory	MERSEN FUSE	2
PP008130-S	UTILITY SPARE	Inventory	MERSEN FUSE	3
PP008140-S	UTILITY SPARE	Inventory	MERSEN FUSE	3
PP008150-S	UTILITY SPARE	Inventory	MERSEN TIME DELAY	2
PP008160-S	UTILITY SPARE	Inventory	MERSEN FUSES	5
PP008170-S	UTILITY SPARE	Inventory	SHAWMUT AMP-TRAP SEMICONDUCTOR FUSE	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP008180-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT FUSE	2
PP008190-S	UTILITY SPARE	Inventory	13" CIRCULAR GAGE GLASS	1
PP008200-S	UTILITY SPARE	Inventory	4" CIRCULAR GAGE GLASS	1
PP008210-S	UTILITY SPARE	Inventory	ASSORTED FLAT GLASS GASKETS SIZE #9	13
PP008220-S	UTILITY SPARE	Inventory	BOILER 10 GAGE GLASS HARDWARE	1
PP008230-S	UTILITY SPARE	Inventory	BOILER 6 GAGE GLASS	4
PP008250-S	UTILITY SPARE	Inventory	CLARK-RELIANCE BOILER GAUGEBOX	1
PP008270-S	UTILITY SPARE	Inventory	CLARK-RELIANCE FLAT GLASS REPAIR KIT	3
PP008280-S	UTILITY SPARE	Inventory	CLARK-RELIANCE REFLEX GAUGE GLASS R8 SIZE #9	4
PP008290-S	UTILITY SPARE	Inventory	CLARK-RELIANCE GAGE GLASS HARDWARE	1
PP008300-S	UTILITY SPARE	Inventory	CLARK-RELIANCE VALVE	1
PP008310-S	UTILITY SPARE	Inventory	CONBRACO WATER GAUGE GLASS VALVES	4
PP008320-S	UTILITY SPARE	Inventory	DURAN REDLINE HEAVYWALL GAUGE GLASS 3/4"	1
PP008330-S	UTILITY SPARE	Inventory	DURAN REDLINE HEAVYWALL GAUGE GLASS 5/8"	1
PP008340-S	UTILITY SPARE	Inventory	DURAN REDLINE HEAVYWALL GAUGE GLASS 5/8"OD X 9-1/2" LENGTH	1
PP008350-S	UTILITY SPARE	Inventory	EFP PLAIN CLEAR FLAT GAUGE GLASS SIZE #9	1
PP008370-S	UTILITY SPARE	Inventory	ERNST FLAT CLEAR GAUGE GLASS SIZE #8	10
PP008380-S	UTILITY SPARE	Inventory	FLAT GAUGE GLASS #9 W/ MICA	1
PP008390-S	UTILITY SPARE	Inventory	GAUGE GLASS MICA SIZE #8	6
PP008400-S	UTILITY SPARE	Inventory	GLASS PANE	3
PP008410-S	UTILITY SPARE	Inventory	GRAPHITE FLAT GLASS GASKETS SIZE #6	3
PP008420-S	UTILITY SPARE	Inventory	GRAPHITE FLAT GLASS GASKETS SIZE #8	22
PP008430-S	UTILITY SPARE	Inventory	HONEYWELL RECORDER GLASS	2
PP008440-S	UTILITY SPARE	Inventory	ILMADUR REFLEX GAUGE GLASS SIZE #9	3
PP008450-S	UTILITY SPARE	Inventory	MICA GAGE GLASS	1
PP008460-S	UTILITY SPARE	Inventory	OIL LEVEL GAGE GLASS ASSEMBLY	1
PP008480-S	UTILITY SPARE	Inventory	GAGE GLASS ISOLATION VALVE PARTS	17
PP008490-S	UTILITY SPARE	Inventory	SIMPLIPORT GAGE GLASSES	5
PP008500-S	UTILITY SPARE	Inventory	3-15 AIR SIGNAL	4
PP008510-S	UTILITY SPARE	Inventory	ABB VARIABLE AREA FLOWMETER	1
PP008520-S	UTILITY SPARE	Inventory	ACUTEK GAUGE	1
PP008530-S	UTILITY SPARE	Inventory	AMETEK GAUGE	2
PP008540-S	UTILITY SPARE	Inventory	AMETEK PRESSURE GAUGE	2
PP008550-S	UTILITY SPARE	Inventory	AMETEK US GAUGE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP008560-S	UTILITY SPARE	Inventory	AMETEK US GAUGE RANGE 2000	1
PP008570-S	UTILITY SPARE	Inventory	ASHCROFT 0-60 PSI GENERAL SERVICE GAUGE	1
PP008580-S	UTILITY SPARE	Inventory	ASHCROFT 0-60 PSI PRESSURE GAUGE	1
PP008590-S	UTILITY SPARE	Inventory	ASHCROFT 1279 DURAGAUGE	1
PP008600-S	UTILITY SPARE	Inventory	ASHCROFT 200-1000F THERMOMETER	1
PP008610-S	UTILITY SPARE	Inventory	ASHCROFT 2-1/2" 100 PSI GENERAL PURPOSE GAUGE	5
PP008620-S	UTILITY SPARE	Inventory	ASHCROFT 3" BIMETAL THERMOMETER BOILER 10 SAMPLE COOLER	8
PP008630-S	UTILITY SPARE	Inventory	ASHCROFT 3-1/2" FIRE SPRINKLER PRESSURE GAUGE	6
PP008640-S	UTILITY SPARE	Inventory	ASHCROFT 4 1/2" 1279 DURAGAUGE	10
PP008650-S	UTILITY SPARE	Inventory	ASHCROFT 4 1/2" GENERAL SERVICE GAUGE	2
PP008660-S	UTILITY SPARE	Inventory	ASHCROFT 5" BIMETAL THERMOMETER	1
PP008670-S	UTILITY SPARE	Inventory	ASHCROFT 5" BIMETAL THERMOMETER	1
PP008680-S	UTILITY SPARE	Inventory	ASHCROFT 600PSI RECIEVER GAUGE	1
PP008700-S	UTILITY SPARE	Inventory	ASHCROFT DIAL THERMOMETER	1
PP008710-S	UTILITY SPARE	Inventory	ASHCROFT DIFFERENTIAL PRESSURE GAUGE	6
PP008720-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	1
PP008730-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	4
PP008740-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	4
PP008750-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	1
PP008760-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	1
PP008770-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	1
PP008780-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE	2
PP008790-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE 4 1/2"	4
PP008800-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE PLUS	1
PP008810-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE PLUS	1
PP008820-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE PRESSURE GAUGE	1
PP008830-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE0-60 PSI 4-1/2"	1
PP008840-S	UTILITY SPARE	Inventory	ASHCROFT DURALIFE GAUGE	2
PP008850-S	UTILITY SPARE	Inventory	ASHCROFT GAUGE	3
PP008860-S	UTILITY SPARE	Inventory	ASHCROFT GAUGE	1
PP008880-S	UTILITY SPARE	Inventory	ASHCROFT GAUGE	1
PP008890-S	UTILITY SPARE	Inventory	ASHCROFT GAUGE	1
PP008900-S	UTILITY SPARE	Inventory	ASHCROFT GENERAL SERVICE GAUGE	2
PP008910-S	UTILITY SPARE	Inventory	ASHCROFT GENERAL SERVICE GAUGE	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP008920-S	UTILITY SPARE	Inventory	ASHCROFT GENERAL SERVICE GAUGE	4
PP008930-S	UTILITY SPARE	Inventory	ASHCROFT INDUSTRIAL DURALIFE GAUGE	1
PP008940-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	6
PP008950-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	6
PP008960-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	1
PP008970-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	3
PP008980-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	1
PP008990-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	4
PP009000-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	2
PP009010-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	1
PP009020-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	3
PP009030-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	1
PP009040-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	3
PP009050-S	UTILITY SPARE	Inventory	ASHCROFT LOW PRESSURE GAUGE	10
PP009060-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE DURAGAUGE	1
PP009070-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE	8
PP009080-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE	2
PP009090-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE	1
PP009100-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE	1
PP009110-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE 4 1/2"	2
PP009120-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE 600 PSI LIMIT	1
PP009130-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE GAUGE 800 PSI LIMIT	1
PP009150-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE SWITCH	2
PP009160-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE SWITCH	2
PP009170-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE SWITCH	2
PP009180-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE SWITCH	2
PP009190-S	UTILITY SPARE	Inventory	ASHCROFT PRESSURE SWITCH	11
PP009200-S	UTILITY SPARE	Inventory	ASHCROFT RECEIVER GAUGE	2
PP009210-S	UTILITY SPARE	Inventory	ASHCROFT RECEIVER GAUGE	1
PP009220-S	UTILITY SPARE	Inventory	ASHCROFT SERVICE GAUGE	4
PP009230-S	UTILITY SPARE	Inventory	ASHCROFT SERVICE GAUGE	2
PP009240-S	UTILITY SPARE	Inventory	ASHCROFT SERVICE GAUGE	4
PP009250-S	UTILITY SPARE	Inventory	ASHCROFT TG6 EXHAUST CONDENSER VAC GAUGE	1
PP009260-S	UTILITY SPARE	Inventory	ASHCROFT US GAUGE 15 LIMIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP009270-S	UTILITY SPARE	Inventory	ASHCROFT VACUUM GAUGE	1
PP009280-S	UTILITY SPARE	Inventory	BIMETAL THERMOMETER	1
PP009290-S	UTILITY SPARE	Inventory	BIMETAL THERMOMETER	5
PP009300-S	UTILITY SPARE	Inventory	BLUE WHITE FLOWMETER	1
PP009310-S	UTILITY SPARE	Inventory	BWI EAGLE AIR EAGLE SR 2.4GHZ RECIEVER	1
PP009330-S	UTILITY SPARE	Inventory	COLE-PARMER MANOMETER	1
PP009340-S	UTILITY SPARE	Inventory	DWYER MAGNAHELIC DIFFERENTIAL GAUGE	1
PP009350-S	UTILITY SPARE	Inventory	DWYER MAGNAHELIC DIFFERENTIAL GAUGE	1
PP009360-S	UTILITY SPARE	Inventory	DWYER MAGNAHELIC DIFFERENTIAL GAUGE	1
PP009370-S	UTILITY SPARE	Inventory	DWYER MAGNAHELIC DIFFERENTIAL GAUGE	1
PP009380-S	UTILITY SPARE	Inventory	DWYER RATEMASTER FLOWMETER	2
PP009390-S	UTILITY SPARE	Inventory	EHA PSI GAUGE	1
PP009400-S	UTILITY SPARE	Inventory	EMCO FLOWMETER	1
PP009410-S	UTILITY SPARE	Inventory	FISHER 0-30 PSI 1/8" NPT PRESSURE GAUGE	1
PP009420-S	UTILITY SPARE	Inventory	FISHER REGULATOR PRESSURE GAUGE	1
PP009430-S	UTILITY SPARE	Inventory	FLOW INDICATOR	1
PP009440-S	UTILITY SPARE	Inventory	GAUGE	4
PP009450-S	UTILITY SPARE	Inventory	GRAINGER PRESSURE GAUGE STAINLESS STEEL 600 PSI	4
PP009460-S	UTILITY SPARE	Inventory	HEISE DIAL PRESSURE GAUGE	1
PP009470-S	UTILITY SPARE	Inventory	HOUR METER	2
PP009480-S	UTILITY SPARE	Inventory	HOUR METER	2
PP009490-S	UTILITY SPARE	Inventory	LIMITORQUE VALVE POSITION GAUGE	1
PP009500-S	UTILITY SPARE	Inventory	MARSHALLTOWN GAUGE	2
PP009510-S	UTILITY SPARE	Inventory	MCDANIELS CONTROLS GAUGE	1
PP009520-S	UTILITY SPARE	Inventory	MCDANIELS CONTROLS GAUGE	1
PP009530-S	UTILITY SPARE	Inventory	MID-WEST INSTRUMENT DIFFERENTIAL GAUGE	1
PP009540-S	UTILITY SPARE	Inventory	MID-WEST INSTRUMENTS GAUGE	1
PP009550-S	UTILITY SPARE	Inventory	MILJOCO PRESSURE GAUGE 0-15"	2
PP009570-S	UTILITY SPARE	Inventory	NEPTUNE 1" POTABLE WATER METER	1
PP009580-S	UTILITY SPARE	Inventory	NOSHOK PRESSURE GAUGE	1
PP009590-S	UTILITY SPARE	Inventory	ORANGE RESEARCH HPV DP GAUGE	1
PP009600-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	2
PP009610-S	UTILITY SPARE	Inventory	PIC GAUGES 1000 PSI	5
PP009620-S	UTILITY SPARE	Inventory	PIC GAUGES 160PSI	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP009630-S	UTILITY SPARE	Inventory	PIC GAUGES 300 PSI	3
PP009640-S	UTILITY SPARE	Inventory	PORTER FLOWMETER MODEL 65	1
PP009650-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	2
PP009660-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	1
PP009670-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	1
PP009680-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	4
PP009690-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	1
PP009700-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	1
PP009710-S	UTILITY SPARE	Inventory	PRESSURE GAUGE	3
PP009730-S	UTILITY SPARE	Inventory	PTC INSTRUMENTS TEMP GAUGE	1
PP009740-S	UTILITY SPARE	Inventory	SIMPSON GAUGE	5
PP009750-S	UTILITY SPARE	Inventory	SIMPSON GAUGE	1
PP009760-S	UTILITY SPARE	Inventory	SIMPSON POSITIONER STEAM GAUGE	3
PP009770-S	UTILITY SPARE	Inventory	SMALL ROTOR EMCO	1
PP009780-S	UTILITY SPARE	Inventory	SOLARTRON HYDRASTEP BLR11 DRUM LEVEL INDICATOR	1
PP009790-S	UTILITY SPARE	Inventory	SPAN PRESSURE GAUGE 0 TO 60 PSI	4
PP009800-S	UTILITY SPARE	Inventory	TEL-TRU BI-METALLIC THERMOMETER	2
PP009810-S	UTILITY SPARE	Inventory	TEL-TRU THERMOMETER	2
PP009820-S	UTILITY SPARE	Inventory	TEL-TRU THERMOMETER	1
PP009830-S	UTILITY SPARE	Inventory	TRIPLETT .750A DC AMMETER	2
PP009840-S	UTILITY SPARE	Inventory	TRIPLETT 200?A DC MICROAMMETER	2
PP009850-S	UTILITY SPARE	Inventory	US FORCE GAUGE - GENERAL	1
PP009860-S	UTILITY SPARE	Inventory	US GAUGE GENERAL GAUGE	1
PP009870-S	UTILITY SPARE	Inventory	US GAUGE RECIEVER GAUGE	2
PP009880-S	UTILITY SPARE	Inventory	USG 0-2000PSI PRESSURE GAUGE	1
PP009890-S	UTILITY SPARE	Inventory	USG PRESSURE GAUGE	1
PP009900-S	UTILITY SPARE	Inventory	W.E ANDERSON SFI-100-3/4 FLOW INDICATOR	3
PP009910-S	UTILITY SPARE	Inventory	W.E. ANDERSON 3/8" ROTOMETER	1
PP009920-S	UTILITY SPARE	Inventory	WEISS RIBBON SERIES VARI-ANGLE 30-300F THERMOMETER	1
PP009930-S	UTILITY SPARE	Inventory	WEKSLER BLR 10 STOKERS GAUGE (0-15"H2O)	4
PP009940-S	UTILITY SPARE	Inventory	WEKSLER GAUGE	1
PP009950-S	UTILITY SPARE	Inventory	WEKSLER PIGTAIL/ SIPHON GAUGE 1/2"	3
PP009960-S	UTILITY SPARE	Inventory	WEKSLER PIGTAIL/ SIPHON GAUGE 1/4"	4
PP009970-S	UTILITY SPARE	Inventory	WEKSLER PRESSURE GAUGE	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP009980-S	UTILITY SPARE	Inventory	WEKSLER REGAL INDUSTRIAL PRESSURE GAUGE	5
PP009990-S	UTILITY SPARE	Inventory	WESCHLER INSTRUMENTS BARGRAPH	1
PP010000-S	UTILITY SPARE	Inventory	WESTINGHOUSE 500V AC VOLTMETER	1
PP010010-S	UTILITY SPARE	Inventory	WESTON 750MA AMMETER	1
PP010020-S	UTILITY SPARE	Inventory	WIKA 3" BIMETAL THERMOMETER	1
PP010030-S	UTILITY SPARE	Inventory	WIKA GAUGE	1
PP010040-S	UTILITY SPARE	Inventory	WINTERS 2.5" PRESSURE GAUGE 0-15PSI	3
PP010050-S	UTILITY SPARE	Inventory	WINTERS PRESSURE GAUGE	1
PP010060-S	UTILITY SPARE	Inventory	WINTERS PRESSURE GAUGE 0-30PSI	4
PP010070-S	UTILITY SPARE	Inventory	FLUID GAUGE	1
PP010080-S	UTILITY SPARE	Inventory	DRESSER-RAND TG6 EXCITER PARTS	1
PP010090-S	UTILITY SPARE	Inventory	EXC FIELD POLE DRESSER - RAND	2
PP010100-S	UTILITY SPARE	Inventory	EXITER END CAP TG5	1
PP010110-S	UTILITY SPARE	Inventory	HELWIG CARBON BRUSH TG1	41
PP010120-S	UTILITY SPARE	Inventory	HELWIG CARBON BRUSH TG1	28
PP010130-S	UTILITY SPARE	Inventory	HELWIG CARBON SLIP RING BRUSH	30
PP010140-S	UTILITY SPARE	Inventory	HONDA GX GENERATOR	2
PP010150-S	UTILITY SPARE	Inventory	WORTHINGTON PART	2
PP010160-S	UTILITY SPARE	Inventory	DANIEL WOODHEAD HAND LAMP GLOBE REPLACEMENT	1
PP010170-S	UTILITY SPARE	Inventory	DANIEL WOODHEAD TRANSFORMER	1
PP010180-S	UTILITY SPARE	Inventory	MCGILL LOW VOLTAGE POWER PACK	1
PP010190-S	UTILITY SPARE	Inventory	5/16" WIRE ROPE CLAMP	22
PP010210-S	UTILITY SPARE	Inventory	BIO UNLOADING BLOWER NUTS	10
PP010220-S	UTILITY SPARE	Inventory	BOLT 0.5 IN X 1 IN	18
PP010230-S	UTILITY SPARE	Inventory	BOLT HEAD: 1 IN DEPTH: 6.5 IN DIAMETER: 5/8 IN	87
PP010240-S	UTILITY SPARE	Inventory	CART WHEELS	4
PP010250-S	UTILITY SPARE	Inventory	CENTRAL VACUUM FLAP INLET	1
PP010260-S	UTILITY SPARE	Inventory	CHICAGO 1" DROP FORGED HOOK	1
PP010270-S	UTILITY SPARE	Inventory	CLEVIS PIN WITH LOCKING RING AND CHAIN	19
PP010280-S	UTILITY SPARE	Inventory	CULLY HEX WASHER HEAD	100
PP010290-S	UTILITY SPARE	Inventory	CULLY SHEET METAL SCREWS	100
PP010300-S	UTILITY SPARE	Inventory	CULLY WASHERS	100
PP010310-S	UTILITY SPARE	Inventory	EFI GRAPHITE WASHER	4
PP010320-S	UTILITY SPARE	Inventory	EYE BOLT 5-1/2"X5/16"	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP010330-S	UTILITY SPARE	Inventory	EZ-ROLL RIGID 6" CASTER	4
PP010340-S	UTILITY SPARE	Inventory	FASTENAL 1/4" 304 STAINLESS STEEL WIRE ROPE CLIPS	7
PP010350-S	UTILITY SPARE	Inventory	FASTENAL WASHER OD: 1 3/8 IN ID: 7/8 IN	20
PP010360-S	UTILITY SPARE	Inventory	GRAINGER 2" SWIVEL PLATE CASTER	4
PP010370-S	UTILITY SPARE	Inventory	BOLT M8 X 12	50
PP010380-S	UTILITY SPARE	Inventory	HILTI ANCHOR ROD HAS-R	40
PP010390-S	UTILITY SPARE	Inventory	HILTI HAS-E ANCHOR ROD	60
PP010400-S	UTILITY SPARE	Inventory	HOSE CLAMPS	5
PP010410-S	UTILITY SPARE	Inventory	LYON INDUSTIRES STAINLESS SHIM STOCK	3
PP010420-S	UTILITY SPARE	Inventory	LYON INDUSTIRES STAINLESS SHIM STOCK	1
PP010430-S	UTILITY SPARE	Inventory	M B SKINNER EMERGENCY PIPE CLAMP 1-1/2"	2
PP010440-S	UTILITY SPARE	Inventory	M B SKINNER EMERGENCY PIPE CLAMP 1-1/4"	2
PP010450-S	UTILITY SPARE	Inventory	MAKE A CLAMP BAND	4
PP010460-S	UTILITY SPARE	Inventory	MAUDLIN PRODUCTS SHIM COIL	2
PP010470-S	UTILITY SPARE	Inventory	MAUDLIN PRODUCTS SHIM COIL	1
PP010480-S	UTILITY SPARE	Inventory	MCMASTER-CARR ENCLOSURE LATCHES	12
PP010490-S	UTILITY SPARE	Inventory	MCMASTER-CARR STEEL EXTRA-WIDE HEX NUT	1
PP010510-S	UTILITY SPARE	Inventory	METAL RING CLAMPS	2
PP010520-S	UTILITY SPARE	Inventory	MIDWEST BEAM CLAMP	2
PP010530-S	UTILITY SPARE	Inventory	NATIONAL 3/8"X4" HOOK RING	2
PP010540-S	UTILITY SPARE	Inventory	NATIONAL 5/16"X4" HOOK RING	2
PP010550-S	UTILITY SPARE	Inventory	NATIONAL OIL SEALS	2
PP010560-S	UTILITY SPARE	Inventory	NUT 1-1/8 " DIAMETER: 3/4"	12
PP010580-S	UTILITY SPARE	Inventory	NYLON NUT OD:1" ID: 3/4"	48
PP010590-S	UTILITY SPARE	Inventory	PIPE ATTACHMENT BRACKET	1
PP010600-S	UTILITY SPARE	Inventory	PIPE HANGER 1-3/8"	22
PP010610-S	UTILITY SPARE	Inventory	PIPE HANGERS 1/2"	5
PP010620-S	UTILITY SPARE	Inventory	PIPE HANGERS 1-1/4"	3
PP010630-S	UTILITY SPARE	Inventory	PIPE HANGERS 2-1/8"	5
PP010640-S	UTILITY SPARE	Inventory	PIPE HANGERS 3/4"	24
PP010650-S	UTILITY SPARE	Inventory	PRECISION BRAND STEEL SHIM	9
PP010660-S	UTILITY SPARE	Inventory	RACO BEAM CLAMPS	17
PP010670-S	UTILITY SPARE	Inventory	SHAW SPACER BARS	2
PP010680-S	UTILITY SPARE	Inventory	SHEAR PINS FOR ATLAS SCREEN	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP010690-S	UTILITY SPARE	Inventory	SNAP PIN 2 WIRE, 3/8"X2-1/2"	4
PP010700-S	UTILITY SPARE	Inventory	STEEL 300SS T-BOLT CLAMP	20
PP010740-S	UTILITY SPARE	Inventory	TBI STAINLESS SHIM COIL	5
PP010750-S	UTILITY SPARE	Inventory	TBI STAINLESS SHIM COIL	5
PP010760-S	UTILITY SPARE	Inventory	TBI STAINLESS SHIM COIL	1
PP010770-S	UTILITY SPARE	Inventory	TBI STAINLESS SHIM COIL	1
PP010780-S	UTILITY SPARE	Inventory	TBI STAINLESS SHIM COIL	1
PP010790-S	UTILITY SPARE	Inventory	WASHER OD: 1.25, ID: 0.5	37
PP010800-S	UTILITY SPARE	Inventory	WASHERS OD: 1 1/2 IN ID: 3/4 IN	84
PP010810-S	UTILITY SPARE	Inventory	WHITE SAND BAGS	300
PP010820-S	UTILITY SPARE	Inventory	WIRE CLIP 1/16"	3
PP010830-S	UTILITY SPARE	Inventory	WIRE CLIP 1/2"	2
PP010840-S	UTILITY SPARE	Inventory	WIRE CLIP 1/4"	4
PP010850-S	UTILITY SPARE	Inventory	WIRE CLIP 1/8"	4
PP010860-S	UTILITY SPARE	Inventory	WIRE CLIP 3/16"	2
PP010870-S	UTILITY SPARE	Inventory	WIRE CLIP 3/8"	4
PP010880-S	UTILITY SPARE	Inventory	WIRE CLIP 5/16"	15
PP010890-S	UTILITY SPARE	Inventory	WIRE CLIP 5/8"	2
PP010900-S	UTILITY SPARE	Inventory	WIRE ROPE THIMBLE 1/4"	1
PP010910-S	UTILITY SPARE	Inventory	WIRE ROPE THIMBLE 3/8"	13
PP010920-S	UTILITY SPARE	Inventory	WIRE ROPE THIMBLE 5/16"	4
PP010930-S	UTILITY SPARE	Inventory	WIRE ROPE THIMBLE 5/8"	6
PP010940-S	UTILITY SPARE	Inventory	AP GREEN ANCHORS	30
PP010950-S	UTILITY SPARE	Inventory	BRIGHTON HEAVY HEX NUT	200
PP010960-S	UTILITY SPARE	Inventory	CERAMIC TILES	1
PP010970-S	UTILITY SPARE	Inventory	ELECTRIC MACHINERY WASHER	96
PP010980-S	UTILITY SPARE	Inventory	HEX NUT 3/4"	12
PP010990-S	UTILITY SPARE	Inventory	HUSKY CLEAR POLYETHYLENE SHEETING	7
PP011000-S	UTILITY SPARE	Inventory	LISEGR SPRING SUPPORT	1
PP011010-S	UTILITY SPARE	Inventory	NYB 20" PB WHEEL W/ BUSHING	1
PP011020-S	UTILITY SPARE	Inventory	PFC ALL THREADED STUDS	20
PP011030-S	UTILITY SPARE	Inventory	PFC ALL THREADED STUDS	30
PP011040-S	UTILITY SPARE	Inventory	SCREWS	8
PP011050-S	UTILITY SPARE	Inventory	SPECIAL WASHER 3/4"	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP011060-S	UTILITY SPARE	Inventory	STEEL WASHERS 3/4"	12
PP011070-S	UTILITY SPARE	Inventory	1/4" BOLT	10
PP011080-S	UTILITY SPARE	Inventory	1/4" THREADED SCREW	8
PP011090-S	UTILITY SPARE	Inventory	3/4 X 3 1/4 B7 ROD	32
PP011100-S	UTILITY SPARE	Inventory	3/4 X 3 1/4 B7 W/Z NUTS	32
PP011110-S	UTILITY SPARE	Inventory	BOLT, HEX HEAD	8
PP011120-S	UTILITY SPARE	Inventory	BOX OF WASHERS NUTS AND BOLTS	1
PP011130-S	UTILITY SPARE	Inventory	EARNEST MACHINE HEX FLANGE NUTS	400
PP011140-S	UTILITY SPARE	Inventory	FASTENAL WASHERS	125
PP011150-S	UTILITY SPARE	Inventory	HEX FLANGE SCREWS	5
PP011160-S	UTILITY SPARE	Inventory	HEX JAM NUT	1,250
PP011170-S	UTILITY SPARE	Inventory	JOINT PIN	7
PP011180-S	UTILITY SPARE	Inventory	JUMBO STEEL FLAT WASHER	8
PP011190-S	UTILITY SPARE	Inventory	MARTIN 1/2-13X2 BOLTS	3
PP011200-S	UTILITY SPARE	Inventory	SETTED SCREWS WITH BOLTS	1
PP011210-S	UTILITY SPARE	Inventory	SQUARED BOLTS AND NUTS	1
PP011220-S	UTILITY SPARE	Inventory	SS FLAT WASHER	13
PP011230-S	UTILITY SPARE	Inventory	STEEL TIE DOWN	9
PP011240-S	UTILITY SPARE	Inventory	WHITNEY SCREW BOLT	1
PP011250-S	UTILITY SPARE	Inventory	HEX 5/8-11X1 3/4" STUD	1
PP011260-S	UTILITY SPARE	Inventory	HEX CLAMPING COLLAR	1
PP011270-S	UTILITY SPARE	Inventory	HEX GIB HEAD TAPERED MACHINE KEY	6
PP011280-S	UTILITY SPARE	Inventory	HEX LOWER BEARING	3
PP011290-S	UTILITY SPARE	Inventory	HEX PACKING GLAND	1
PP011300-S	UTILITY SPARE	Inventory	HEX PACKING SET	13
PP011310-S	UTILITY SPARE	Inventory	HEX PLATE GASKETS	1
PP011320-S	UTILITY SPARE	Inventory	HEX SPACER ASSEMBLY	1
PP011330-S	UTILITY SPARE	Inventory	HEX STRAINER BEARING SEAL	5
PP011340-S	UTILITY SPARE	Inventory	HEX STRAINER ELEMENT	3
PP011350-S	UTILITY SPARE	Inventory	HEX STRAINER NYLO-NUTS 7/8-14"	9
PP011370-S	UTILITY SPARE	Inventory	HEX STRAINER SHAFT	1
PP011380-S	UTILITY SPARE	Inventory	HEX UPPER SHAFT	1
PP011390-S	UTILITY SPARE	Inventory	PORT SHOE HEX	2
PP011400-S	UTILITY SPARE	Inventory	DAYTON WALL HEAT EXCHANGER	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP011410-S	UTILITY SPARE	Inventory	SULLAIR HEAT EXCHANGER	3
PP011420-S	UTILITY SPARE	Inventory	CLIP GASKET ROPE	1
PP011430-S	UTILITY SPARE	Inventory	MUELLER HEAT EXCHANGER ASSEMBLY	1
PP011440-S	UTILITY SPARE	Inventory	SULLAIR HEAT EXCHANGER	1
PP011450-S	UTILITY SPARE	Inventory	DIGITRACE HEAT TRACING CONTROL ASSEMBLY	1
PP011460-S	UTILITY SPARE	Inventory	HLI HEAT TRACE SPLICE KITS	1
PP011470-S	UTILITY SPARE	Inventory	RAYCHEM END CAP SEAL	4
PP011480-S	UTILITY SPARE	Inventory	RAYCHEM GEL-FILLED END SEAL KIT	1
PP011490-S	UTILITY SPARE	Inventory	RAYCHEM HEAT TRACE COMPONENTS	1
PP011500-S	UTILITY SPARE	Inventory	RAYCHEM POWER CONNECTION KIT	2
PP011510-S	UTILITY SPARE	Inventory	HUPP SPACE HEATER	1
PP011520-S	UTILITY SPARE	Inventory	MARLEY WALL MOUNT HEATER	3
PP011530-S	UTILITY SPARE	Inventory	12" M TO F 1" BRAIDED FLEX HOSE	1
PP011540-S	UTILITY SPARE	Inventory	13" M TO M 1.5" BRAIDED FLEX HOSE	1
PP011550-S	UTILITY SPARE	Inventory	18" M TO F 1.5" BRAIDED FLEX HOSE	1
PP011560-S	UTILITY SPARE	Inventory	18" M TO F 2" BRAIDED FLEX HOSE	2
PP011570-S	UTILITY SPARE	Inventory	24" F TO F 1" BRAIDED FLEX HOSE	2
PP011580-S	UTILITY SPARE	Inventory	24" FLEXIBLE 1/2" HOSE BRASS MNPT FITTING	2
PP011590-S	UTILITY SPARE	Inventory	24" M TO M 1.5" BRAIDED FLEX HOSE	2
PP011600-S	UTILITY SPARE	Inventory	24" M TO M 3/8" BRAIDED FLEX HOSE	3
PP011610-S	UTILITY SPARE	Inventory	25" TUBE STUB 1/4" BRAIDED FLEX HOSE	22
PP011620-S	UTILITY SPARE	Inventory	28" M TO M 3/4" BRAIDED FLEX HOSE	1
PP011630-S	UTILITY SPARE	Inventory	30" TUBE STUB 3/8" BRAIDED FLEX HOSE	4
PP011640-S	UTILITY SPARE	Inventory	48" 2" FLANGE 3/4" BRAIDED FLEX HOSE	5
PP011650-S	UTILITY SPARE	Inventory	60" M TO M 3/4" BRAIDED FLEX HOSE	3
PP011660-S	UTILITY SPARE	Inventory	8" UNTHREADED 1.25" BRAIDED FLEX HOSE	2
PP011670-S	UTILITY SPARE	Inventory	8" UNTHREADED 1.5" BRAIDED FLEX HOSE	2
PP011680-S	UTILITY SPARE	Inventory	9" M TO M 1.5" BRAIDED FLEX HOSE	1
PP011700-S	UTILITY SPARE	Inventory	BOILER 10 GAS SUPPLY FLEX HOSE 11"	2
PP011710-S	UTILITY SPARE	Inventory	BOILER 10 GAS SUPPLY FLEX HOSE 11.5"	2
PP011720-S	UTILITY SPARE	Inventory	BRASS HOSE 3/8" OD MALE TO MALE	1
PP011740-S	UTILITY SPARE	Inventory	HOSE PROTECTOR-ORANGE	1
PP011750-S	UTILITY SPARE	Inventory	SINGLE JACKET FIRE SUPPRESSION HOSE ASSEMBLY	4
PP011760-S	UTILITY SPARE	Inventory	SPEEDAIRE 1/4" 250PSI AIR HOSE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP011770-S	UTILITY SPARE	Inventory	SPEEDAIRE DEGREASER GUN TUBING	1
PP011780-S	UTILITY SPARE	Inventory	THERMOID FUEL LINE HOSE 1/4 IN DIAMETER	1
PP011790-S	UTILITY SPARE	Inventory	APOLLO HOSE VALVE	6
PP011800-S	UTILITY SPARE	Inventory	PARKER WATER SUCTION AND DISCHARGE HOSE	1
PP011810-S	UTILITY SPARE	Inventory	PARKER WATER SUCTION AND DISCHARGE HOSE	1
PP011820-S	UTILITY SPARE	Inventory	EATON BOILER 10 ASH HPU	1
PP011830-S	UTILITY SPARE	Inventory	EATON BOILER 10 ASH HPU FILTER ELEMENT	2
PP011840-S	UTILITY SPARE	Inventory	BOTTOM ASH GRINDER HYDRAULIC MOTOR	1
PP011850-S	UTILITY SPARE	Inventory	ROPER WHITNEY INSULATION CRIMPER & BEADER	1
PP011860-S	UTILITY SPARE	Inventory	FOSTER WHEELER INSULATION PILLOW	24
PP011870-S	UTILITY SPARE	Inventory	MAKIFORCE AIR LIFTING BAG	1
PP011880-S	UTILITY SPARE	Inventory	MAKIFORCE AIR LIFTING BAG	1
PP011890-S	UTILITY SPARE	Inventory	9"X7"X5" LIGHT REFRACTOR HOUSING	1
PP011900-S	UTILITY SPARE	Inventory	ADVANCE CENTIUM BALLAST	1
PP011910-S	UTILITY SPARE	Inventory	ADVANCE E-PACK 60 BALLAST 120V 60HZ	1
PP011930-S	UTILITY SPARE	Inventory	COOPER METALUX STRIPLITE 4' LIGHT FIXTURE	2
PP011940-S	UTILITY SPARE	Inventory	CREE ALUMINUM LIGHT FIXTURE	1
PP011950-S	UTILITY SPARE	Inventory	CREE CXB SERIES HIGH BAY MEDIUM LUMEN PACKAGE	6
PP011960-S	UTILITY SPARE	Inventory	CREE LIGHT FIXTURE	1
PP011970-S	UTILITY SPARE	Inventory	CREE LIGHT FIXTURE 165N	1
PP011980-S	UTILITY SPARE	Inventory	DAY-BRITE OPEN BAY 400W METAL HALIDE BALLAST HOUSING	1
PP012000-S	UTILITY SPARE	Inventory	DUAL-LITE FLUORESCENT BATTERY PACK (DISCONTINUED)	1
PP012020-S	UTILITY SPARE	Inventory	GE 4' T12 LAMP	10
PP012030-S	UTILITY SPARE	Inventory	GE 4' T8 LAMP	55
PP012040-S	UTILITY SPARE	Inventory	GE 4-POLE CONTACT KIT	2
PP012050-S	UTILITY SPARE	Inventory	GE 500W HALOGEN BULB	3
PP012060-S	UTILITY SPARE	Inventory	GE ALL GLASS SEALED BEAM LAMP	2
PP012070-S	UTILITY SPARE	Inventory	GE ECO 4' T12 LAMP	30
PP012080-S	UTILITY SPARE	Inventory	GE ECOLUX STARCOAT 4' T5 LAMP	80
PP012090-S	UTILITY SPARE	Inventory	GE ECOLUX STARCOAT 4' T8 LAMP	28
PP012100-S	UTILITY SPARE	Inventory	GE GARAGE DOOR OPENER LAMP	2
PP012110-S	UTILITY SPARE	Inventory	GE HID LAMPS	6
PP012120-S	UTILITY SPARE	Inventory	GE HIGH PRESSURE SODIUM LAMP	4
PP012130-S	UTILITY SPARE	Inventory	GE LIGHTING MERCURY LAMP	20

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP012140-S	UTILITY SPARE	Inventory	GE LUCALOX HIGH PRESSURE SODIUM LAMP	2
PP012150-S	UTILITY SPARE	Inventory	GE LUCALOX HIGH PRESSURE SODIUM LAMP	2
PP012160-S	UTILITY SPARE	Inventory	GE LUCALOX LAMP	1
PP012170-S	UTILITY SPARE	Inventory	GE MINILAMP	1
PP012180-S	UTILITY SPARE	Inventory	GE MINI-SPIRAL CFL BULB	5
PP012190-S	UTILITY SPARE	Inventory	GE MULTI-VAPOR LAMP	1
PP012200-S	UTILITY SPARE	Inventory	GE MULTI-VAPOR METAL HALIDE LAMP	2
PP012210-S	UTILITY SPARE	Inventory	GE MULTI-VAPOR METAL HALIDE LAMP	2
PP012220-S	UTILITY SPARE	Inventory	GE NARROW SPOT 14 DEGREE	3
PP012230-S	UTILITY SPARE	Inventory	GE QUARTZLINE SHOWBIZ T4 HALOGEN LAMP	6
PP012240-S	UTILITY SPARE	Inventory	GE QUARTZLINE T2.5 TUNGSTEN-HALOGEN LAMP	4
PP012250-S	UTILITY SPARE	Inventory	GE QUARTZLINE T4 TUNGSTEN-HALOGEN LAMP	4
PP012260-S	UTILITY SPARE	Inventory	GE SOFT WHITE INCANDESCENT BULB	3
PP012270-S	UTILITY SPARE	Inventory	GE SPIRAL CFL BULB	2
PP012280-S	UTILITY SPARE	Inventory	GE STARCOAT 8' T12 LAMP	12
PP012290-S	UTILITY SPARE	Inventory	GE STARCOAT 8' T8 LAMP	16
PP012300-S	UTILITY SPARE	Inventory	GE MERCURY VAPOR LAMP	3
PP012310-S	UTILITY SPARE	Inventory	GE MINIATURE LAMP	1
PP012320-S	UTILITY SPARE	Inventory	GLOBRITE 7050 RED EXIT SIGN	7
PP012330-S	UTILITY SPARE	Inventory	HALO POWER-TRAC Z9 SPOTLIGHT BULB	20
PP012340-S	UTILITY SPARE	Inventory	INTERMATIC PHOTO CONTROL	1
PP012350-S	UTILITY SPARE	Inventory	INTERSTATE BATTERIES EXIT SIGN NICD BATTERY PACK	2
PP012360-S	UTILITY SPARE	Inventory	KILLARK CLEAR GLASS GLOBE	2
PP012370-S	UTILITY SPARE	Inventory	LAMP LENS 4FT	5
PP012380-S	UTILITY SPARE	Inventory	LEVITON FLUORESCENT LAMP HOLDER	6
PP012390-S	UTILITY SPARE	Inventory	LITHONIA LED EXIT SIGN	3
PP012400-S	UTILITY SPARE	Inventory	LUMAPRO 150W	1
PP012410-S	UTILITY SPARE	Inventory	LUMAPRO 100W LIGHTBULB	2
PP012420-S	UTILITY SPARE	Inventory	LUMAPRO 9W BULB	3
PP012430-S	UTILITY SPARE	Inventory	LUMAPRO A19 ROUGH SERVICE INCANDESCENT BULB	6
PP012440-S	UTILITY SPARE	Inventory	LUMAPRO MERCURY VAPOR BULB	2
PP012450-S	UTILITY SPARE	Inventory	LUMAPRO MINIATURE INCANDESCENT BULB	20
PP012460-S	UTILITY SPARE	Inventory	LUMAPRO T3 HALOGEN	4
PP012470-S	UTILITY SPARE	Inventory	LUTRON BALLAST	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP012480-S	UTILITY SPARE	Inventory	LUTRON PRESET DIMMER	4
PP012490-S	UTILITY SPARE	Inventory	MAGNETEK BALLAST REPLACEMENT KIT	5
PP012500-S	UTILITY SPARE	Inventory	MAGNETEK BALLAST REPLACEMENT KIT	4
PP012510-S	UTILITY SPARE	Inventory	MCGILL LAMP CHANGER POLE	1
PP012520-S	UTILITY SPARE	Inventory	NIGHT-BRITES AUTOMATIC NIGHT LIGHT	2
PP012530-S	UTILITY SPARE	Inventory	PASS & SEYMOUR LEGRAND LAMP HOLDER	10
PP012540-S	UTILITY SPARE	Inventory	PASS & SEYMOUR LEGRAND REDUCER	9
PP012560-S	UTILITY SPARE	Inventory	PHILIPS 4' LED T8 LAMP	10
PP012570-S	UTILITY SPARE	Inventory	PHILIPS 9" T5 LAMP	6
PP012580-S	UTILITY SPARE	Inventory	PHILIPS ADVANCE 250W BALLAST KIT	3
PP012590-S	UTILITY SPARE	Inventory	PHILIPS ADVANCE BALLAST KIT	8
PP012600-S	UTILITY SPARE	Inventory	PHILIPS ADVANCE LOW-PROFILE CENTIUM T8 BALLAST	10
PP012610-S	UTILITY SPARE	Inventory	PHILIPS ADVANCE LOW-PROFILE CENTIUM T8 BALLAST	8
PP012620-S	UTILITY SPARE	Inventory	PHILIPS ADVANCE LOW-PROFILE CENTIUM T8 BALLAST	1
PP012630-S	UTILITY SPARE	Inventory	PHILIPS CERAMALUX LAMP	3
PP012640-S	UTILITY SPARE	Inventory	PHILIPS CERAMIC METAL HALIDE LAMP	19
PP012650-S	UTILITY SPARE	Inventory	PHILIPS CERAMIC METAL HALIDE LAMP	4
PP012660-S	UTILITY SPARE	Inventory	PHILIPS CORE & COIL BALLAST KIT	1
PP012670-S	UTILITY SPARE	Inventory	PHILIPS DAY-BRITE 4' WATERPROOF LED FIXTURE	1
PP012680-S	UTILITY SPARE	Inventory	PHILIPS INCANDESCENT LAMP	1
PP012690-S	UTILITY SPARE	Inventory	PHILIPS INFRARED HEAT LAMP	7
PP012700-S	UTILITY SPARE	Inventory	PHILIPS LINEAR CFL BULB	6
PP012720-S	UTILITY SPARE	Inventory	PHILIPS METAL HALIDE MH250/U	10
PP012730-S	UTILITY SPARE	Inventory	PHILIPS PROGRAMMED START ELECTRONIC BALLAST	2
PP012740-S	UTILITY SPARE	Inventory	PHILLIPS ADVANCE MAGNETIC BALLAST, 1-LAMP, 120V	2
PP012750-S	UTILITY SPARE	Inventory	SHAT-R-SHIELD FLUORESCENT BULB	8
PP012760-S	UTILITY SPARE	Inventory	SPECTRONICS CONCENTRATED-BEAM ULTRAVIOLET SPOT BULB	1
PP012770-S	UTILITY SPARE	Inventory	STONCO WALLPRISM SECURITY LIGHT	1
PP012780-S	UTILITY SPARE	Inventory	SUNRAY LIGHTS MINI BULB	9
PP012790-S	UTILITY SPARE	Inventory	SURE-LITES EXIT/EMERGENCY LIGHTING LED SIGN	7
PP012800-S	UTILITY SPARE	Inventory	SYLVANIA 130V BULB	2
PP012810-S	UTILITY SPARE	Inventory	SYLVANIA 4' T12 LAMP	14
PP012820-S	UTILITY SPARE	Inventory	SYLVANIA 6" T5 LAMP	8
PP012830-S	UTILITY SPARE	Inventory	SYLVANIA 9" T5 LAMP	21

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP012840-S	UTILITY SPARE	Inventory	SYLVANIA CLEAR INDICATOR BULB	20
PP012850-S	UTILITY SPARE	Inventory	SYLVANIA HIGH PRESSURE SODIUM LUMALUX	4
PP012860-S	UTILITY SPARE	Inventory	SYLVANIA LUMALUX HIGH PRESSURE SODIUM LAMP	2
PP012870-S	UTILITY SPARE	Inventory	SYLVANIA LUMALUX LAMP	1
PP012890-S	UTILITY SPARE	Inventory	SYLVANIA LUMALUX LAMP	1
PP012900-S	UTILITY SPARE	Inventory	SYLVANIA MERCURY LAMP	1
PP012910-S	UTILITY SPARE	Inventory	SYLVANIA MERCURY LAMP	8
PP012920-S	UTILITY SPARE	Inventory	SYLVANIA MERCURY LAMP	1
PP012940-S	UTILITY SPARE	Inventory	SYLVANIA TRU-AIM BRILLIANT HALOGEN NARROW SPOT LAMP	6
PP012950-S	UTILITY SPARE	Inventory	SYLVANIA TUNGSTEN HALOGEN BULB	1
PP012960-S	UTILITY SPARE	Inventory	SYLVANIA WARM WHITE DELUXE 100 CFL BULB	12
PP012970-S	UTILITY SPARE	Inventory	TRIAD ELECTRONIC BALLAST	6
PP012980-S	UTILITY SPARE	Inventory	UNIMAR WALL MOUNT ENCLOSURE	1
PP012990-S	UTILITY SPARE	Inventory	USWAY LIGHTING 105W CFL	6
PP013000-S	UTILITY SPARE	Inventory	UV LAMP KIT	3
PP013010-S	UTILITY SPARE	Inventory	WESTINGHOUSE 1' T5 LAMP	8
PP013020-S	UTILITY SPARE	Inventory	GE LIGHT FIXTURES	3
PP013030-S	UTILITY SPARE	Inventory	SQUARE D LIGHTING CONTACTOR 100A	1
PP013040-S	UTILITY SPARE	Inventory	SYLVANIA 100W BULBS	1
PP013050-S	UTILITY SPARE	Inventory	WESTINGHOUSE AC LIGHTING CONTACTOR 30A	1
PP013060-S	UTILITY SPARE	Inventory	US LIGHTING TECH	7
PP013070-S	UTILITY SPARE	Inventory	US LIGHTING TECH	2
PP013080-S	UTILITY SPARE	Inventory	ALS TRIBOLOGY OIL SAMPLE KIT	3
PP013090-S	UTILITY SPARE	Inventory	DES-CASE BREATHER	6
PP013100-S	UTILITY SPARE	Inventory	OATHULL BLOWER GEARBOX BREATHER	2
PP013110-S	UTILITY SPARE	Inventory	OIL-RITE AUTOMATIC LUBRICATOR	2
PP013120-S	UTILITY SPARE	Inventory	PERMA FLEX 125 AUTOMATIC LUBRICATOR	35
PP013130-S	UTILITY SPARE	Inventory	TRICO OPTO-MATIC CONSTANT LEVEL OILER	8
PP013140-S	UTILITY SPARE	Inventory	VAL-TEX GREASE GUN	1
PP013150-S	UTILITY SPARE	Inventory	SILICONE OIL	1
PP013160-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 2 POWERFLEX 4-CLASS HIM (DSI) REMOTE	2
PP013170-S	UTILITY SPARE	Inventory	ENRANGE HOIST REMOTE	1
PP013180-S	UTILITY SPARE	Inventory	MISC CIRCUIT BOARDS	8
PP013190-S	UTILITY SPARE	Inventory	TELECRANE INDUSTRIAL RADIO REMOTE CONTROLLER RECIEVER	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP013200-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	1
PP013210-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	1
PP013220-S	UTILITY SPARE	Inventory	BODINE SMALL MOTOR	2
PP013230-S	UTILITY SPARE	Inventory	BOILER 10 CONVEYOR BRUSH	2
PP013240-S	UTILITY SPARE	Inventory	DAYTON INDUSTRIAL MOTOR	1
PP013250-S	UTILITY SPARE	Inventory	FASCO DOUBLE SHAFT MOTOR 1/30HP	2
PP013260-S	UTILITY SPARE	Inventory	FASCO ELECTRIC MOTOR	1
PP013270-S	UTILITY SPARE	Inventory	HONEYWELL MODUTRAL IV MOTOR	1
PP013290-S	UTILITY SPARE	Inventory	WEG ELECTRIC MOTOR	1
PP013300-S	UTILITY SPARE	Inventory	ZIEHL ABEGG BLOWER MOTOR	1
PP013310-S	UTILITY SPARE	Inventory	BALDOR .5 HP MOTOR	1
PP013320-S	UTILITY SPARE	Inventory	BALDOR 1 HP MOTOR	1
PP013330-S	UTILITY SPARE	Inventory	BALDOR 1 HP MOTOR	2
PP013340-S	UTILITY SPARE	Inventory	BALDOR 1 HP MOTOR	1
PP013350-S	UTILITY SPARE	Inventory	BALDOR 1.5 HP MOTOR	1
PP013360-S	UTILITY SPARE	Inventory	BALDOR 1/4 HP MOTOR	1
PP013370-S	UTILITY SPARE	Inventory	BALDOR 3/4 HP MOTOR	1
PP013380-S	UTILITY SPARE	Inventory	BALDOR 5 HP MOTOR	1
PP013390-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	2
PP013400-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	1
PP013410-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	1
PP013420-S	UTILITY SPARE	Inventory	BALDOR ELECTRIC MOTOR	1
PP013430-S	UTILITY SPARE	Inventory	BALDOR INDUCTION MOTOR	1
PP013440-S	UTILITY SPARE	Inventory	BALDOR MOTOR	1
PP013450-S	UTILITY SPARE	Inventory	BALDOR MOTOR	1
PP013460-S	UTILITY SPARE	Inventory	BALDOR MOTOR	1
PP013470-S	UTILITY SPARE	Inventory	BALDOR RO PUMP MOTOR	1
PP013480-S	UTILITY SPARE	Inventory	DAYTON 3 PHASE MOTOR	2
PP013490-S	UTILITY SPARE	Inventory	EMERSON 1 HP MOTOR	1
PP013500-S	UTILITY SPARE	Inventory	FLOWERVE MOTOR	1
PP013510-S	UTILITY SPARE	Inventory	GE 1.5 HP MOTOR	1
PP013520-S	UTILITY SPARE	Inventory	GENERAL ELECTRIC AC MOTOR	1
PP013540-S	UTILITY SPARE	Inventory	HUPP BOILER 7 FD FAN MOTOR	1
PP013550-S	UTILITY SPARE	Inventory	HUPP ELECTRIC MOTOR	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP013560-S	UTILITY SPARE	Inventory	HUPP INDUCED DRAFT MOTOR	1
PP013570-S	UTILITY SPARE	Inventory	HUPP INDUCTION MOTOR	1
PP013580-S	UTILITY SPARE	Inventory	MARATHON 1 HP MOTOR	1
PP013590-S	UTILITY SPARE	Inventory	MARATHON 1 HP MOTOR	3
PP013600-S	UTILITY SPARE	Inventory	MARATHON 3 PHASE INDUCTION MOTOR	1
PP013610-S	UTILITY SPARE	Inventory	MARATHON 3 PHASE INDUCTION MOTOR	1
PP013620-S	UTILITY SPARE	Inventory	MARATHON 3 PHASE INDUCTION MOTOR	1
PP013630-S	UTILITY SPARE	Inventory	MARATHON 3/4 HP MOTOR	1
PP013640-S	UTILITY SPARE	Inventory	MARATHON 5 HP MOTOR	1
PP013650-S	UTILITY SPARE	Inventory	MARATHON ELECTRIC MOTOR	1
PP013660-S	UTILITY SPARE	Inventory	MARATHON ELECTRIC MOTOR	1
PP013670-S	UTILITY SPARE	Inventory	MARATHON ELECTRIC MOTOR	1
PP013680-S	UTILITY SPARE	Inventory	MARATHON ELECTRIC MOTOR	1
PP013690-S	UTILITY SPARE	Inventory	MARATHON ELECTRIC MOTOR	2
PP013700-S	UTILITY SPARE	Inventory	MARATHON INDUCTION MOTOR	1
PP013710-S	UTILITY SPARE	Inventory	MARATHON JET PUMP	2
PP013720-S	UTILITY SPARE	Inventory	MARATHON MOTOR	1
PP013730-S	UTILITY SPARE	Inventory	MARATHON MOTOR	1
PP013740-S	UTILITY SPARE	Inventory	PACIFIC 0.25 HP MOTOR	1
PP013750-S	UTILITY SPARE	Inventory	PREMIUM EFFICENCY 3 PHASE INDUCTION MOTOR	1
PP013760-S	UTILITY SPARE	Inventory	RELIANCE 1 HP MOTOR	1
PP013770-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC AC MOTOR	1
PP013780-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC AC MOTOR	1
PP013790-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC AC MOTOR	1
PP013810-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC AC MOTOR	1
PP013820-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC AC MOTOR	1
PP013830-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC ELECTRIC MOTOR	1
PP013840-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC ELECTRIC MOTOR	1
PP013850-S	UTILITY SPARE	Inventory	RELIANCE ELECTRIC ELECTRIC MOTOR	1
PP013860-S	UTILITY SPARE	Inventory	RELIANCE INDUCTION MOTOR	1
PP013870-S	UTILITY SPARE	Inventory	RELIANCO 1 HP MOTOR	1
PP013880-S	UTILITY SPARE	Inventory	SABRE ELECTRIC MOTOR	1
PP013890-S	UTILITY SPARE	Inventory	SIEMENS 2 HP MOTOR	1
PP013900-S	UTILITY SPARE	Inventory	SIEMENS INDUCTION MOTOR	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP013910-S	UTILITY SPARE	Inventory	SIEMENS INDUCTION MOTOR	1
PP013920-S	UTILITY SPARE	Inventory	SPARTAN ELECTRIC MOTOR	2
PP013930-S	UTILITY SPARE	Inventory	TECO 3 PHASE INDUCTION MOTOR	1
PP013940-S	UTILITY SPARE	Inventory	TOSHIBA 2 HP MOTOR	1
PP013950-S	UTILITY SPARE	Inventory	TOSHIBA 3 PHASE INDUCTION MOTOR	1
PP013960-S	UTILITY SPARE	Inventory	TOSHIBA 3 PHASE INDUCTION MOTOR	1
PP013970-S	UTILITY SPARE	Inventory	TOSHIBA 3 PHASE INDUCTION MOTOR	1
PP013980-S	UTILITY SPARE	Inventory	TOSHIBA 3 PHASE INDUCTION MOTOR	1
PP013990-S	UTILITY SPARE	Inventory	TOSHIBA ELECTRIC MOTOR	1
PP014000-S	UTILITY SPARE	Inventory	TOSHIBA ELECTRIC MOTOR	1
PP014010-S	UTILITY SPARE	Inventory	TOSHIBA ELECTRIC MOTOR	1
PP014020-S	UTILITY SPARE	Inventory	TOSHIBA INDUCTION MOTOR	1
PP014030-S	UTILITY SPARE	Inventory	TOSHIBA INDUCTION MOTOR	1
PP014040-S	UTILITY SPARE	Inventory	TOSHIBA PHASE INDUCTION MOTOR	1
PP014050-S	UTILITY SPARE	Inventory	TOSHIBA THREE PHASE INDUCTION MOTOR	1
PP014060-S	UTILITY SPARE	Inventory	WEG 5 HP MOTOR	1
PP014070-S	UTILITY SPARE	Inventory	BALDOR MOTOR	1
PP014080-S	UTILITY SPARE	Inventory	BALDOR MOTOR	1
PP014090-S	UTILITY SPARE	Inventory	DIAMOND POWER MOTOR	1
PP014100-S	UTILITY SPARE	Inventory	DIAMOND POWER MOTOR	1
PP014110-S	UTILITY SPARE	Inventory	DODGE GEAR MOTOR	1
PP014120-S	UTILITY SPARE	Inventory	EMERSON BIOMASS GEARBOX AND MOTOR	1
PP014130-S	UTILITY SPARE	Inventory	MARATHON 3 PHASE MOTOR	2
PP014140-S	UTILITY SPARE	Inventory	MORO 3 PHASE MOTOR	1
PP014150-S	UTILITY SPARE	Inventory	BOOK HOLDER MSDS	2
PP014160-S	UTILITY SPARE	Inventory	2.255" ORIFICE FLANGE 8-1/4" OD 3/16" THICKNESS	1
PP014170-S	UTILITY SPARE	Inventory	BAILEY CONTROLS ORIFICE PLATE 4" PIPE 2.7072" HOLE FOR BOILER	2
PP014180-S	UTILITY SPARE	Inventory	BAILEY CONTROLS ORIFICE PLATE 4" PIPE 2.7088" HOLE FOR BOILER	1
PP014190-S	UTILITY SPARE	Inventory	BAILEY CONTROLS ORIFICE PLATE 4" PIPE 2.7916" HOLE FOR PUMPS	1
PP014200-S	UTILITY SPARE	Inventory	MERIAM 951 ORIFICE PLATE	2
PP014210-S	UTILITY SPARE	Inventory	ORIFICE BOLT	3
PP014220-S	UTILITY SPARE	Inventory	ORIFICE BOLT	3
PP014230-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AMBER PILOT LIGHT LENS	5
PP014240-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY FLASHING INCANDESCENT	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP014250-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY GREEN PILOT LIGHT	1
PP014260-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY GREEN PILOT LIGHT LENS	12
PP014270-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY LAMP	7
PP014280-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ORANGE PILOT LIGHT	1
PP014290-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	3
PP014300-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	11
PP014310-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	2
PP014330-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	2
PP014340-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	1
PP014350-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RED FLASHING TOWER LIGHT	1
PP014360-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RED PILOT LIGHT LENS	4
PP014370-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY WHITE PILOT LIGHT LENS	6
PP014380-S	UTILITY SPARE	Inventory	DAYTON FLUSH GREEN LED INDICATOR LIGHT	5
PP014390-S	UTILITY SPARE	Inventory	DAYTON FLUSH RED LED INDICATOR LIGHT	7
PP014400-S	UTILITY SPARE	Inventory	GRAINGER WARNING LIGHT	1
PP014410-S	UTILITY SPARE	Inventory	GRAINGER RAISED NEON INDICATOR LIGHT	2
PP014420-S	UTILITY SPARE	Inventory	NEON PILOT LIGHT	11
PP014430-S	UTILITY SPARE	Inventory	OPAQUE RED INDICATOR LIGHT LENS	24
PP014440-S	UTILITY SPARE	Inventory	SCHNEIDER ELECTRIC HARMONY LIGHT MODULE	4
PP014450-S	UTILITY SPARE	Inventory	SQUARE D PILOT LIGHT	2
PP014460-S	UTILITY SPARE	Inventory	TRANSLUCENT GREEN INDICATOR LIGHT LENS	35
PP014470-S	UTILITY SPARE	Inventory	TRANSLUCENT RED INDICATOR LIGHT LENS	3
PP014480-S	UTILITY SPARE	Inventory	WESTINGHOUSE PUSH-TO-TEST PILOT LIGHT	1
PP014490-S	UTILITY SPARE	Inventory	MAXLED PANEL LIGHT	3
PP014500-S	UTILITY SPARE	Inventory	6" D 17" L THREADED PIPING	1
PP014510-S	UTILITY SPARE	Inventory	SCHIMBERG FABRICATED PIPE	9
PP014520-S	UTILITY SPARE	Inventory	2" PIPEX5FT	162
PP014530-S	UTILITY SPARE	Inventory	COORS CERAMIC TUBE	5
PP014540-S	UTILITY SPARE	Inventory	PIPE SUPPORT	2
PP014550-S	UTILITY SPARE	Inventory	3500 ENCORE SERIES / 15E	1
PP014560-S	UTILITY SPARE	Inventory	3500 ENCORE SERIES / 23E	1
PP014570-S	UTILITY SPARE	Inventory	3500 ENCORE SERIES / 42E	2
PP014580-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY BULLETIN 1771 POWER SUPPLY	1
PP014590-S	UTILITY SPARE	Inventory	ABB BAILEY INFI 90 POWER ENTRY PANEL	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP014600-S	UTILITY SPARE	Inventory	ABB BAILEY INFI 90 POWER FAN CHASSIS	1
PP014610-S	UTILITY SPARE	Inventory	ABB BAILEY INFI 90 SYSTEM POWER MODULE	2
PP014620-S	UTILITY SPARE	Inventory	ABB PCU 5,6,7 POWER SUPPLY (SPARE)	1
PP014630-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 3 PIN MINI STRAIGHT CORDSET	2
PP014640-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MISCELLANEOUS PLC PARTS	1
PP014650-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SLC 500 PC INTERFACE CONVERTER	1
PP014660-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 CHANNEL DC OUTPUT MODULE	1
PP014670-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 CHANNEL DC OUTPUT MODULE	1
PP014680-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 POINT AC INPUT MODULE	2
PP014690-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 POINT DIGITAL INPUT MODULE	1
PP014700-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 POINT DIGITAL OUTPUT MODULE	1
PP014710-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 POINT INPUT MODULE	1
PP014720-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 POINT INPUT MODULE	3
PP014730-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 PT 24 SC SINK / SOURCE INPUT	1
PP014740-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 PT VAC / VRC RELAY OUTPUT	1
PP014750-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 16 PT INPUT DC MODULE	6
PP014760-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 24 VAC INPUT MODULE	1
PP014770-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 24 VAC OUTPUT MODULE	1
PP014780-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 4 CHANNEL ISOLATED CURRENT OUTPUT MODULE	1
PP014790-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 6 POINT DIGITAL INPUT MODULE	7
PP014800-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 64K PLC MEMORY CARTRIDGE	1
PP014810-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 8 CHANNEL ANALOG CURRENT / VOLTAGE INPUT	1
PP014820-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 8 OUTPUT MODULE	12
PP014830-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 8 RELAY OUTPUT MODULE	2
PP014840-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC INPUT MODULE	10
PP014850-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC INPUT MODULE	4
PP014860-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC OUTPUT MODULE	2
PP014870-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC POWER SUPPLY	1
PP014880-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ANALOG INPUT MODULE	1
PP014890-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY I/O WIRING ARM	2
PP014900-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ANALOG OUTPUT MODULE	1
PP014910-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ANALOG OUTPUT MODULE	1
PP014920-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY COMMUNICATION MODULE ADAPTER	1
PP014930-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY COMPACTLOGIX 2MB ENCT CONTROLLER	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP014940-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DATA HIGHWAY + CORD + CABLE	1
PP014950-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DATA HIGHWAY INTERFACE MODULE	1
PP014960-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DC POWER SUPPLY	7
PP014970-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ENHANCED PLC-5 CONTROLLER	1
PP014980-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ENHANCED PLC-5 CONTROLLER	2
PP014990-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY HUMAN INTERFACE MODULE	1
PP015000-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY INPUT MODULE	2
PP015010-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY INPUT MODULE	2
PP015020-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY INPUT MODULE	1
PP015030-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ISOLATED OUTPUT MODULE	1
PP015040-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MEMORY MODULE	3
PP015050-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROLOGIX 1000 POWER SUPPLY CONTROLLER	1
PP015060-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROLOGIX 1200 24 POINT CONTROLLER	1
PP015070-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROLOGIX 1500 24 POINT CONTROLLER	2
PP015080-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROLOGIX 1500 MEMORY	2
PP015090-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROLOGIX 1500 PROCESSOR	1
PP015100-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OUTPUT MODULE	2
PP015110-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OUTPUT MODULE	2
PP015120-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OUTPUT MODULE	1
PP015130-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PANELVIEW OPERATING CABLE	1
PP015140-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PICO EXPANSION MODULE	2
PP015150-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PICO EXPANSION MODULE	1
PP015160-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POINT I/O FIELD POTENTIAL DISTRIBUTOR	2
PP015180-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWER SUPPLY MODULE	2
PP015190-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PROCESSOR UNIT	2
PP015200-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PROCESSOR UNIT	2
PP015210-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PROGRAMMING TERMINAL	2
PP015220-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PROXIMITY CONDUIT ACCESSORY ADAPTER	6
PP015230-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY REMOTE I/O ADAPTER	4
PP015240-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SLC 150 PROCESSOR UNIT/ PROGRAMMABLE CONTROLLER	1
PP015250-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SLC LITHIUM BATTERY	3
PP015260-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SMALL PARTS BAG	1
PP015270-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SOUND MODULE	3
PP015280-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY STRATIX 2000 UNMANAGED ETHERNET SWITCH	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP015290-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY THERMOCOUPLE / MILLIVOLT INPUT MODULE	1
PP015300-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TTL OUTPUT MODULE	3
PP015310-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY WIRING	3
PP015320-S	UTILITY SPARE	Inventory	BAILEY FAN MODULE	1
PP015330-S	UTILITY SPARE	Inventory	BAILEY FIELD TERMINATION PANEL	11
PP015340-S	UTILITY SPARE	Inventory	BAILEY I90 POWER MODULE CHASSIS	1
PP015350-S	UTILITY SPARE	Inventory	BAILEY INFI90 IEFAN01	2
PP015360-S	UTILITY SPARE	Inventory	BENTLY NEVADA 3300 DUAL THRUST MONITOR	1
PP015370-S	UTILITY SPARE	Inventory	BENTLY NEVADA DUAL VIBRATION MONITOR	5
PP015380-S	UTILITY SPARE	Inventory	COOLING FAN PLU 26	1
PP015390-S	UTILITY SPARE	Inventory	HIRSCHMANN RAIL SWITCH RS20	1
PP015400-S	UTILITY SPARE	Inventory	INFI 90 MOUNTING UNIT	5
PP015410-S	UTILITY SPARE	Inventory	CRESNET CONTROL	1
PP015420-S	UTILITY SPARE	Inventory	MISC ABB SPARES	1
PP015430-S	UTILITY SPARE	Inventory	MITSUBISHI 8-BIT CMOS STATIC RAM	4
PP015440-S	UTILITY SPARE	Inventory	MPSIII HARDWARE KIT	1
PP015450-S	UTILITY SPARE	Inventory	PROSOFT COMMUNICATIONS MODULE	2
PP015460-S	UTILITY SPARE	Inventory	PROSOFT MODBUS MASTER INTERFACE MODULE	3
PP015470-S	UTILITY SPARE	Inventory	RED LION ENHANCED MODULAR CONTROLLER SERIES MASTER DATA LOGGER	1
PP015480-S	UTILITY SPARE	Inventory	RED LION PAX ANALOG OUTPUT CARD	1
PP015490-S	UTILITY SPARE	Inventory	RED LION PAX PROCESS INPUT METER	4
PP015500-S	UTILITY SPARE	Inventory	RED LION SIGNAL CONDITIONER	1
PP015510-S	UTILITY SPARE	Inventory	SCHWEITZER ENGINEERING LABORATORIES COMPUTING SYSTEM	3
PP015520-S	UTILITY SPARE	Inventory	SPARE AB CONTROLLOGIX COAL CONVEYOR PARTS	1
PP015530-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 7-SLOT CONTROLLOGIX CHASSIS	1
PP015540-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX AC POWER SUPPLY	1
PP015550-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX PLC	1
PP015560-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX STORAGE SD CARD	1
PP015570-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX ETHERNET MODULE	1
PP015580-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX 8-POINT ANALOG INPUT MODULE	2
PP015590-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX 16-POINT DIGITAL OUTPUT MODULE	3
PP015600-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX 16-POINT DIGITAL INPUT MODULE	4
PP015610-S	UTILITY SPARE	Inventory	LEAK DETECTOR	1
PP015640-S	UTILITY SPARE	Inventory	OATEY 50/50 WIRE SOLDER	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP015650-S	UTILITY SPARE	Inventory	GREENLEE PIPE BENDER	1
PP015660-S	UTILITY SPARE	Inventory	CHICAGO ALLIS PISTON CUP PNEUMATIC CYLDINER SEAL	5
PP015670-S	UTILITY SPARE	Inventory	ALLEN SHERMAN HOFF "E VALVE" AIR CYLINDER	4
PP015680-S	UTILITY SPARE	Inventory	ALLEN SHERMAN HOFF TYPE "E" MATERIAL HANDLING VALVE MAINTENANCE KIT	9
PP015690-S	UTILITY SPARE	Inventory	ALLEN AIR SILO 3 HOUSING	1
PP015700-S	UTILITY SPARE	Inventory	ALLIED WITAN CO (ALWITCO) ATOMUFFLER	2
PP015710-S	UTILITY SPARE	Inventory	ALWITCO BANTAM MUFFLER	7
PP015720-S	UTILITY SPARE	Inventory	ASCO NUMATICS AIR MUFFLER	42
PP015730-S	UTILITY SPARE	Inventory	ASH MUFFLERS	1
PP015740-S	UTILITY SPARE	Inventory	BOILER 10 ASH GATE CYLINDER REPLACEMENT	5
PP015750-S	UTILITY SPARE	Inventory	BOILER 10 BOTTOM ASH DOOR CYLINDER	1
PP015760-S	UTILITY SPARE	Inventory	DESICCANT CHAMBER ASSEMBLY	2
PP015770-S	UTILITY SPARE	Inventory	DYNAQUIP BLOW GUN NOZZLE	19
PP015780-S	UTILITY SPARE	Inventory	EXAIR CABINET COOLER VORTEX TUBE	1
PP015790-S	UTILITY SPARE	Inventory	MILWAUKEE AIR CYLINDER	1
PP015800-S	UTILITY SPARE	Inventory	MOORE PRODUCTS CO. PNEUMATIC RELAY	1
PP015810-S	UTILITY SPARE	Inventory	ORBINOX PNEUMATIC CYLINDER	2
PP015820-S	UTILITY SPARE	Inventory	PUREGAS 20" CARBON MONOXIDE EXTRACTOR TOWER	4
PP015830-S	UTILITY SPARE	Inventory	SPEEDAIRE 1/2" PNEUMATIC EXHAUST MUFFLER	3
PP015840-S	UTILITY SPARE	Inventory	SPEEDAIRE 1/4" PNEUMATIC EXHAUST MUFFLER	4
PP015850-S	UTILITY SPARE	Inventory	SPEEDAIRE 3/8" PNEUMATIC EXHAUST MUFFLER	4
PP015860-S	UTILITY SPARE	Inventory	SWAGELOK 60 MICRON ELEMENT KIT FOR PARTICULATE FILTERS	2
PP015870-S	UTILITY SPARE	Inventory	SWAGELOK 60 MICRON ELEMENT KIT FOR PARTICULATE FILTERS	5
PP015880-S	UTILITY SPARE	Inventory	UCC AIR POWER CHAMBER 4402-13	1
PP015890-S	UTILITY SPARE	Inventory	UCC AIR POWER CHAMBER 4402-16	3
PP015900-S	UTILITY SPARE	Inventory	UCC AIR POWERED CHAMBER REBUILD DIAPHRAGM	2
PP015910-S	UTILITY SPARE	Inventory	UCC PNEUMATIC CYLINDER	1
PP015920-S	UTILITY SPARE	Inventory	UCC PNEUMATIC CYLINDER SERVICE KIT	1
PP015930-S	UTILITY SPARE	Inventory	UNITED CONVEYOR CORPORATION AIR CHAMBER ASH LINE	1
PP015940-S	UTILITY SPARE	Inventory	UNITED FILTRATION SYSTEMS ADSORPTION HOUSING	1
PP015950-S	UTILITY SPARE	Inventory	BHA BLOWER CONDENSER	4
PP015960-S	UTILITY SPARE	Inventory	KICE INDUSTRIES BLOWER	1
PP015970-S	UTILITY SPARE	Inventory	ALWIT FILTER	16
PP015980-S	UTILITY SPARE	Inventory	BLOWER MOTOR CONE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP015990-S	UTILITY SPARE	Inventory	BLOWER MOTOR IMPELLER	1
PP016000-S	UTILITY SPARE	Inventory	DRESSER ROOTS BLOWER	2
PP016010-S	UTILITY SPARE	Inventory	DRESSER ROOTS BLOWER	2
PP016020-S	UTILITY SPARE	Inventory	DRESSER ROOTS HOLMES BLOWER	1
PP016030-S	UTILITY SPARE	Inventory	GARDNER DENVER SUTORBILT BLOWER	1
PP016040-S	UTILITY SPARE	Inventory	SHEFFER AIR/HYDRAULIC CYLINDER	1
PP016050-S	UTILITY SPARE	Inventory	SHEFFER AIR/HYDRAULIC CYLINDER	1
PP016060-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 10K? TYPE J POTENTIOMETER	2
PP016070-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 250? TYPE J POTENTIOMETER	1
PP016080-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 5K? TYPE J POTENTIOMETER	1
PP016090-S	UTILITY SPARE	Inventory	AMPHENOL 1.15K? POTENTIOMETER	2
PP016100-S	UTILITY SPARE	Inventory	BOILER 10 ALLEN-BRADLEY POTENTIOMETER 10,000OHM'S	1
PP016110-S	UTILITY SPARE	Inventory	BOURNS 100? 10-TURN POTENTIOMETER	1
PP016120-S	UTILITY SPARE	Inventory	BOURNS 10K? 10-TURN POTENTIOMETER	3
PP016130-S	UTILITY SPARE	Inventory	HEAVY DUTY POTENTIOMETER	1
PP016140-S	UTILITY SPARE	Inventory	OHMITE RHEOSTAT POTENTIOMETER	2
PP016150-S	UTILITY SPARE	Inventory	BEL POWER SOLTUIONS POWER SUPPLY	1
PP016160-S	UTILITY SPARE	Inventory	CORCOM POWER LINE FILTER	1
PP016170-S	UTILITY SPARE	Inventory	EATON 5S 1500 UPS	1
PP016180-S	UTILITY SPARE	Inventory	SOLA-HD DIN RAIL POWER SUPPLY	2
PP016190-S	UTILITY SPARE	Inventory	HIGH-CURRENT SCR/THYRISTOR POWER CONTROLLER	1
PP016200-S	UTILITY SPARE	Inventory	KELTRON VIKING POWER SUPPLY	1
PP016210-S	UTILITY SPARE	Inventory	MEAN WELL DIN POWER SUPPLY	1
PP016220-S	UTILITY SPARE	Inventory	PHASETRONICS ABB CEMS POWER CONTROLLER STACK	1
PP016230-S	UTILITY SPARE	Inventory	PHOENIX POWER SUPPLY	1
PP016240-S	UTILITY SPARE	Inventory	SANREX DIODE POWER MODULE	6
PP016250-S	UTILITY SPARE	Inventory	SCHAFFNER HIGH PERFORMANCE TWO-STAGE PCB-MOUNTING EMC FILTER	2
PP016260-S	UTILITY SPARE	Inventory	SOLA 12V 1.5A DC POWER SUPPLY	1
PP016270-S	UTILITY SPARE	Inventory	SOLA LINEAR POWER SUPPLIES	2
PP016280-S	UTILITY SPARE	Inventory	4.5" 21 TOOTH SPROCKET	3
PP016290-S	UTILITY SPARE	Inventory	6" FLAT STEEL PULLEY	1
PP016300-S	UTILITY SPARE	Inventory	6" RUBBER COUPLING	2
PP016310-S	UTILITY SPARE	Inventory	AGRI - TEST 10 FT ROLLER CHAIN	1
PP016320-S	UTILITY SPARE	Inventory	ANSI #100 CONNECTING CHAIN LINK	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP016330-S	UTILITY SPARE	Inventory	ANSI #100 OFFSET CHAIN LINK	10
PP016340-S	UTILITY SPARE	Inventory	ANSI #40 CONNECTING CHAIN LINK	8
PP016350-S	UTILITY SPARE	Inventory	ANSI #40 OFFSET CHAIN LINK	4
PP016360-S	UTILITY SPARE	Inventory	ANSI #50 CONNECTING CHAIN LINK	24
PP016370-S	UTILITY SPARE	Inventory	ANSI #50 OFFSET CHAIN LINK	5
PP016380-S	UTILITY SPARE	Inventory	ANSI #60 CHAIN LINKS	6
PP016390-S	UTILITY SPARE	Inventory	ANSI #60 CONNECTING CHAIN LINK	12
PP016400-S	UTILITY SPARE	Inventory	ANSI #60 OFFSET CHAIN LINK	10
PP016410-S	UTILITY SPARE	Inventory	ANSI #80 CONNECTING CHAIN LINK	5
PP016420-S	UTILITY SPARE	Inventory	ANSI #80 OFFSET CHAIN LINK	9
PP016430-S	UTILITY SPARE	Inventory	BALDOR MASKA FLEX COUPLING SPIDER INSERT	1
PP016440-S	UTILITY SPARE	Inventory	BALDOR MASKA FLEX COUPLING SPIDER INSERT	1
PP016450-S	UTILITY SPARE	Inventory	BALDOR MASKA FLEX COUPLING SPIDER INSERT	1
PP016460-S	UTILITY SPARE	Inventory	BDI ASH LOADER V-BELT	2
PP016470-S	UTILITY SPARE	Inventory	BEARING TRANSMISSION SUPPLY CO. ROLLER CHAIN	2
PP016480-S	UTILITY SPARE	Inventory	BELT EF 21 EXHAUST FANS ABOVE TURBINE DECK	6
PP016490-S	UTILITY SPARE	Inventory	BF GOODRICH PRIME MOVER B38	1
PP016500-S	UTILITY SPARE	Inventory	BROWNING #80 14T SPROCKET	1
PP016510-S	UTILITY SPARE	Inventory	BROWNING 2 GROOVED PULLEY	1
PP016520-S	UTILITY SPARE	Inventory	BROWNING 2 GROOVED PULLEY	1
PP016530-S	UTILITY SPARE	Inventory	BROWNING 3" V-BELT PULLEY	2
PP016540-S	UTILITY SPARE	Inventory	BROWNING 4" 18 TOOTH SPROCKET	3
PP016550-S	UTILITY SPARE	Inventory	CONTINENTAL 170" COGGED V-BELT	6
PP016560-S	UTILITY SPARE	Inventory	BROWNING GRIPNOTCH BELT	1
PP016570-S	UTILITY SPARE	Inventory	BROWNING PULLEY	1
PP016580-S	UTILITY SPARE	Inventory	BROWNING PULLEY	1
PP016590-S	UTILITY SPARE	Inventory	BROWNING PULLEY	2
PP016600-S	UTILITY SPARE	Inventory	CARQUEST TRI-POWER BELT AX31	2
PP016610-S	UTILITY SPARE	Inventory	CHAIN QUICK LINK 1/2"	1
PP016620-S	UTILITY SPARE	Inventory	CHAIN QUICK LINK 1/4"	1
PP016630-S	UTILITY SPARE	Inventory	CLARK-RELIANCE 5 IN CHAIN	12
PP016640-S	UTILITY SPARE	Inventory	COEN HALF GEAR	2
PP016650-S	UTILITY SPARE	Inventory	CONTINENTAL MATCHMAKER BELT	1
PP016660-S	UTILITY SPARE	Inventory	COOLING WATER PUMP COUPLING	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP016670-S	UTILITY SPARE	Inventory	COOPER B-LINE GALVANIZED #12 SINGLE JACK CHAIN	1
PP016680-S	UTILITY SPARE	Inventory	CUSTOM MARTIN #80 43T SPROCKET	1
PP016690-S	UTILITY SPARE	Inventory	CUSTOM SPROCKET (AIRLOCK 6TH FLOOR)	1
PP016700-S	UTILITY SPARE	Inventory	CUSTOM-MADE U-JOINTS	2
PP016710-S	UTILITY SPARE	Inventory	CW COUPLING - DRIVER HALF	1
PP016720-S	UTILITY SPARE	Inventory	DAYTON PREMIUM V - BELT	2
PP016730-S	UTILITY SPARE	Inventory	DAYTON PREMIUM V - BELT A-42	2
PP016740-S	UTILITY SPARE	Inventory	DAYTON PREMIUM V - BELT A-51	2
PP016750-S	UTILITY SPARE	Inventory	DAYTON PREMIUM V - BELT B-112	4
PP016760-S	UTILITY SPARE	Inventory	DEMCO V-BELT	1
PP016770-S	UTILITY SPARE	Inventory	DIAMOND POWER CABLE ASSEMBLY COILS	1
PP016780-S	UTILITY SPARE	Inventory	DODGE TIGEAR 2 GEARBOX	1
PP016790-S	UTILITY SPARE	Inventory	ENERPAC SERVICE PARTS KIT- HYDRAULIC COUPLER	2
PP016800-S	UTILITY SPARE	Inventory	FALK 1015G FLEX HUB	4
PP016810-S	UTILITY SPARE	Inventory	FALK 1070T HUB 3/8 X 3/16 KW BORE	1
PP016820-S	UTILITY SPARE	Inventory	FALK COUPLING BOLTS	1
PP016830-S	UTILITY SPARE	Inventory	FALK FLEX COUPLING 100 T10	1
PP016840-S	UTILITY SPARE	Inventory	FALK STEEL FLEX ASH SCREW COUPLING GRID	2
PP016850-S	UTILITY SPARE	Inventory	FLEX COUPLING SPIDER INSERT	1
PP016860-S	UTILITY SPARE	Inventory	GOODYEAR HY-WEDGE BELT	2
PP016870-S	UTILITY SPARE	Inventory	GOODYEAR TORQUE FLEX BELT	16
PP016880-S	UTILITY SPARE	Inventory	HKK #100 NORTH SCREEN CHAIN	1
PP016890-S	UTILITY SPARE	Inventory	HKK CHAIN ANSI #60 ROLLER CHAIN	50
PP016900-S	UTILITY SPARE	Inventory	JASON MXV BELT	1
PP016910-S	UTILITY SPARE	Inventory	JASON MXV BELT	1
PP016920-S	UTILITY SPARE	Inventory	JASON UNIMATCH XL	20
PP016930-S	UTILITY SPARE	Inventory	LIMESTONE SPROCKET	1
PP016940-S	UTILITY SPARE	Inventory	LOOP SEAL SPROCKET	2
PP016950-S	UTILITY SPARE	Inventory	LOVEJOY FLEX COUPLING SPIDER INSERT	1
PP016960-S	UTILITY SPARE	Inventory	LOVEJOY FLEX COUPLING SPIDER INSERT	1
PP016970-S	UTILITY SPARE	Inventory	LOVEJOY L100 FLEX COUPLING	1
PP016980-S	UTILITY SPARE	Inventory	LOVEJOY L110 FLEX COUPLING	2
PP016990-S	UTILITY SPARE	Inventory	LOVEJOY SLEEVE COUPLING INSERT	5
PP017000-S	UTILITY SPARE	Inventory	MARTIN BORED TO SIZE SPROCKET	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP017010-S	UTILITY SPARE	Inventory	MARTIN BUNA-N COUPLING SPIDER	1
PP017020-S	UTILITY SPARE	Inventory	MARTIN JAW COUPLING 1 5/8	1
PP017030-S	UTILITY SPARE	Inventory	MARTIN JAW COUPLING 15/16	1
PP017040-S	UTILITY SPARE	Inventory	MARTIN LIMESTONE SHEAR PIN SPROCKET ASSEMBLY	1
PP017050-S	UTILITY SPARE	Inventory	MARTIN LIMESTONE SPROCKET	1
PP017060-S	UTILITY SPARE	Inventory	MARTIN LIMESTONE SPROCKET	1
PP017070-S	UTILITY SPARE	Inventory	MARTIN PULLEY 3 GROOVE	1
PP017080-S	UTILITY SPARE	Inventory	MARTIN QD TIMING PULLEY	2
PP017090-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX COUPLING FLANGE 1 3/8	1
PP017100-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX COUPLING FLANGE 6S 1 5/8	1
PP017110-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX COUPLING FLANGE 6S 15/16	1
PP017120-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX COUPLING SLEEVES	1
PP017130-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX COUPLING SLEEVES 6EM	1
PP017140-S	UTILITY SPARE	Inventory	MARTIN QUADRAFLEX FLANGE 15/16	1
PP017150-S	UTILITY SPARE	Inventory	MARTIN QUARDRA FLEX SLEEVES CRP	1
PP017160-S	UTILITY SPARE	Inventory	MARTIN SPROCKET	2
PP017170-S	UTILITY SPARE	Inventory	MARTIN SPROCKET	3
PP017180-S	UTILITY SPARE	Inventory	MARTIN SPROCKET & GEAR INC	2
PP017190-S	UTILITY SPARE	Inventory	MARTIN SPROCKET AND GEAR 3/16'	1
PP017200-S	UTILITY SPARE	Inventory	MARTIN SPROCKET AND GEAR 3/8"	1
PP017210-S	UTILITY SPARE	Inventory	METAL SHOP 6" PULLEY	1
PP017220-S	UTILITY SPARE	Inventory	MIDWEST POWER 50:1 GEAR REDUCER	1
PP017230-S	UTILITY SPARE	Inventory	MORSE ROLLER CHAIN	1
PP017240-S	UTILITY SPARE	Inventory	NTN BEARINGS LOOP SEAL GEARBOX	1
PP017250-S	UTILITY SPARE	Inventory	OPTIBELT SUPER KBOX-POWER 5VX 710	2
PP017260-S	UTILITY SPARE	Inventory	OPTIBELT V - BELT A48	1
PP017270-S	UTILITY SPARE	Inventory	OPTIBELT VB/SK	2
PP017280-S	UTILITY SPARE	Inventory	OPTIBELT VB/SK A29	2
PP017290-S	UTILITY SPARE	Inventory	OPTIBELT VB/SK AX31	3
PP017300-S	UTILITY SPARE	Inventory	OPTIBELT VB/SK HA31	1
PP017310-S	UTILITY SPARE	Inventory	OPTIBELT V-BELT	2
PP017320-S	UTILITY SPARE	Inventory	OPTIBELT V-BELT	1
PP017330-S	UTILITY SPARE	Inventory	PHILIPPINES BELT A-42	2
PP017340-S	UTILITY SPARE	Inventory	PIRELLI BELT B37	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP017350-S	UTILITY SPARE	Inventory	PIRELLI BELT B40	1
PP017360-S	UTILITY SPARE	Inventory	PIRELLI BELT B42	1
PP017370-S	UTILITY SPARE	Inventory	GOULDS COUPLING	1
PP017380-S	UTILITY SPARE	Inventory	GRUNDFOS COUPLING	1
PP017390-S	UTILITY SPARE	Inventory	FALK STEELFLEX GRID COUPLING	1
PP017400-S	UTILITY SPARE	Inventory	REXNORD OMEGA7300 COUPLING	1
PP017410-S	UTILITY SPARE	Inventory	DODGE PARAFLEX COUPLING	1
PP017420-S	UTILITY SPARE	Inventory	DODGE PARAFLEX COUPLING	1
PP017430-S	UTILITY SPARE	Inventory	PULLEY BAG	1
PP017440-S	UTILITY SPARE	Inventory	REX OMEGA 30 ELASTOMETRIC COUPLING	1
PP017450-S	UTILITY SPARE	Inventory	REXNORD 1100T GRID HUB	2
PP017460-S	UTILITY SPARE	Inventory	REXNORD BOILER 10 GAS BURNER FAN COUPLING AND PARTS	1
PP017470-S	UTILITY SPARE	Inventory	REXNORD THOMAS 350 SPACER COUPLING SERIES 71	1
PP017480-S	UTILITY SPARE	Inventory	FALK STEELFLEX GRID COUPLING	2
PP017490-S	UTILITY SPARE	Inventory	SPK ROLLER BS SPROCKET	2
PP017500-S	UTILITY SPARE	Inventory	STERLING ELCTRONICS LIMESTONE FEEDER GEARBOX	1
PP017510-S	UTILITY SPARE	Inventory	STOCK CONVEYOR PART	1
PP017520-S	UTILITY SPARE	Inventory	SUPER HC POWERBAND BELT	3
PP017530-S	UTILITY SPARE	Inventory	TB WOOD'S V-BELT PULLEY	1
PP017540-S	UTILITY SPARE	Inventory	THERMOID V - BELT 4L 270	1
PP017550-S	UTILITY SPARE	Inventory	THERMOID V - BELT 4L 290	1
PP017560-S	UTILITY SPARE	Inventory	THERMOID V - BELT 4L 300	1
PP017570-S	UTILITY SPARE	Inventory	THERMOID V - BELT A68	1
PP017580-S	UTILITY SPARE	Inventory	THERMOID V - BELT AX31	2
PP017590-S	UTILITY SPARE	Inventory	THERMOID V-BELT 4L 280	1
PP017600-S	UTILITY SPARE	Inventory	TRUE - PITCH 40 ROLLER CHAIN	1
PP017610-S	UTILITY SPARE	Inventory	TSUBAKI 32T #60 SPROCKET	1
PP017620-S	UTILITY SPARE	Inventory	TSUBAKI ROLLER CHAIN 10 FT	2
PP017630-S	UTILITY SPARE	Inventory	TSUBAKI ROLLER CHAIN SPROCKET	1
PP017640-S	UTILITY SPARE	Inventory	ATLAS MANUFACTURING DRIVESHAFT GEAR	1
PP017650-S	UTILITY SPARE	Inventory	DRIVE GEAR	4
PP017660-S	UTILITY SPARE	Inventory	FALK PIPE CONNECTOR	1
PP017670-S	UTILITY SPARE	Inventory	MARTIN BELT	1
PP017680-S	UTILITY SPARE	Inventory	PULLEY	4

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP017690-S	UTILITY SPARE	Inventory	STEEL CHAIN	1
PP017700-S	UTILITY SPARE	Inventory	CHAIN LINK	1
PP017710-S	UTILITY SPARE	Inventory	CHAIN LINK	1
PP017720-S	UTILITY SPARE	Inventory	CRANK SHAFT GEAR	2
PP017730-S	UTILITY SPARE	Inventory	FALK BACKSTOP KIT	1
PP017740-S	UTILITY SPARE	Inventory	FALK GEAR REDUCER TORQUE ARM	1
PP017750-S	UTILITY SPARE	Inventory	FALK ULTRAMITE GEAR REDUCER	1
PP017760-S	UTILITY SPARE	Inventory	FALK ULTRAMITE GEAR REDUCER	1
PP017770-S	UTILITY SPARE	Inventory	FALK ULTRAMITE GEAR REDUCER	1
PP017780-S	UTILITY SPARE	Inventory	FALK ULTRAMITE GEAR REDUCER	1
PP017790-S	UTILITY SPARE	Inventory	NORD GEAR REDUCER	1
PP017800-S	UTILITY SPARE	Inventory	SEW GEAR REDUCER	2
PP017810-S	UTILITY SPARE	Inventory	SHEAR PIN HUB DEVICE	1
PP017820-S	UTILITY SPARE	Inventory	SPARE REDUCER GEARS	3
PP017830-S	UTILITY SPARE	Inventory	STEEL CHAIN	1
PP017840-S	UTILITY SPARE	Inventory	STEEL COUPLING	1
PP017850-S	UTILITY SPARE	Inventory	STEEL GEAR	1
PP017860-S	UTILITY SPARE	Inventory	STEPHENS-ADAMSON TORQUE MASTER HOLDBACK	1
PP017870-S	UTILITY SPARE	Inventory	STERLING GEAR REDUCER	1
PP017880-S	UTILITY SPARE	Inventory	STOCK GEAR REDUCER	1
PP017890-S	UTILITY SPARE	Inventory	CONDOR FACE SHIELDS	4
PP017900-S	UTILITY SPARE	Inventory	TALON TRAX 16" RUBBER STEEL-TOE BOOTS	1
PP017910-S	UTILITY SPARE	Inventory	ALLEGRO MANHOLE UTILITY SHELTER, DELUXE UMBRELLA	1
PP017920-S	UTILITY SPARE	Inventory	RED KAP WORK JUMPSUIT	12
PP017930-S	UTILITY SPARE	Inventory	RED KAP WORK JUMPSUIT	5
PP017940-S	UTILITY SPARE	Inventory	RED KAP WORK JUMPSUIT	24
PP017950-S	UTILITY SPARE	Inventory	A1+A2 PUMP CASING GASKET - DISCHARGE SIDE	1
PP017960-S	UTILITY SPARE	Inventory	A1+A2 PUMP CASING GASKET - SUCTION SIDE	1
PP017970-S	UTILITY SPARE	Inventory	A1+A2 PUMP INBOARD BEARING	4
PP017980-S	UTILITY SPARE	Inventory	A1+A2 PUMP RETAINING RING	3
PP017990-S	UTILITY SPARE	Inventory	A1+A2 PUMP SHAFT SLEEVE	2
PP018000-S	UTILITY SPARE	Inventory	A1+A2 PUMP SHAFT SLEEVE GASKET	6
PP018010-S	UTILITY SPARE	Inventory	B19 VERTICAL PUMP MOTOR MOUNT	1
PP018020-S	UTILITY SPARE	Inventory	B21 PARTS KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP018030-S	UTILITY SPARE	Inventory	BECKMAN DIAPHRAGM ASSEMBLY	2
PP018040-S	UTILITY SPARE	Inventory	BRASS IMPELLER 12"	1
PP018050-S	UTILITY SPARE	Inventory	C FLOOR SUMP COPPER FLOAT 10" DIAMETER 3/8" NPT	1
PP018070-S	UTILITY SPARE	Inventory	CARVER PUMP PLUG	3
PP018080-S	UTILITY SPARE	Inventory	CARVER PUMP SEALS	1
PP018090-S	UTILITY SPARE	Inventory	CHESTERTON 150 SINGLE CARTRIDGE SEAL	1
PP018100-S	UTILITY SPARE	Inventory	CHESTERTON 150/OS SINGLE CARTRIDGE SEAL OVERSIZE	1
PP018110-S	UTILITY SPARE	Inventory	CHESTERTON 155 SPARE SEAL	1
PP018120-S	UTILITY SPARE	Inventory	CHESTERTON 180H SINGLE CARTRIDGE STATIONARY SEAL	1
PP018130-S	UTILITY SPARE	Inventory	CLEAVER-BROOKS PUMP HEAD MECHANISM	1
PP018140-S	UTILITY SPARE	Inventory	CONDENSATE REMOVAL PUMP	1
PP018150-S	UTILITY SPARE	Inventory	CONDENSATE SAMPLE PUMP	2
PP018160-S	UTILITY SPARE	Inventory	COPPER FLOAT 6" DIAMETER	2
PP018170-S	UTILITY SPARE	Inventory	COPPER FLOAT 7" DIAMETER	1
PP018200-S	UTILITY SPARE	Inventory	CRP OVERHAUL KIT	1
PP018210-S	UTILITY SPARE	Inventory	CYCLONE SEPERATOR	3
PP018220-S	UTILITY SPARE	Inventory	DAYTON 1" PUMP DIAPRAGM	1
PP018230-S	UTILITY SPARE	Inventory	FLEX-A-SEAL CARTRIDGE SEAL 1-3/4"	2
PP018240-S	UTILITY SPARE	Inventory	FLOW EZY FILTERS BOILER11 COAL SAMPLER FILTER	2
PP018250-S	UTILITY SPARE	Inventory	FLOWERVE 32PMR VERTICAL TURBINE PUMP PARTS	1
PP018260-S	UTILITY SPARE	Inventory	FLOWERVE BEARING CASING	1
PP018270-S	UTILITY SPARE	Inventory	FLOWERVE BUSHING	2
PP018280-S	UTILITY SPARE	Inventory	FLOWERVE CARTRIDGE SEAL KIT	1
PP018290-S	UTILITY SPARE	Inventory	FLOWERVE FEED PUMP PARTS	1
PP018300-S	UTILITY SPARE	Inventory	FLOWERVE MECHANICAL SEAL FOR #5 76 OIL PUMP	2
PP018310-S	UTILITY SPARE	Inventory	FLOWERVE O-RING	1
PP018320-S	UTILITY SPARE	Inventory	FLOWERVE RWP BEARING BUSHING	1
PP018330-S	UTILITY SPARE	Inventory	FLOWERVE SHAFT SEAL	1
PP018340-S	UTILITY SPARE	Inventory	FLOWERVE SUCTION BELL	1
PP018350-S	UTILITY SPARE	Inventory	FYBROC NON-METAL BASE	1
PP018360-S	UTILITY SPARE	Inventory	GOULDS PUMPS SSHS REPAIR KIT	1
PP018380-S	UTILITY SPARE	Inventory	GOULDS PUMPS LEVER PART	1
PP018390-S	UTILITY SPARE	Inventory	GOULDS PUMPS SHAFT SLEEVE	1
PP018400-S	UTILITY SPARE	Inventory	GROUNDFOSS CR32 PUMP REPAIR KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP018410-S	UTILITY SPARE	Inventory	GRUNDFOS DDA 7.5-16	1
PP018420-S	UTILITY SPARE	Inventory	GRUNDFOS CHAMBER STACK REBUILD KIT	1
PP018430-S	UTILITY SPARE	Inventory	GRUNDFOS CONNECTOR PV-U7 INCH TUBING COMB.	1
PP018440-S	UTILITY SPARE	Inventory	GRUNDFOS O-RING KIT	1
PP018450-S	UTILITY SPARE	Inventory	GRUNDFOS SHAFT SEAL KIT	1
PP018460-S	UTILITY SPARE	Inventory	GRUNDFOS SHAFT SEAL KIT	1
PP018470-S	UTILITY SPARE	Inventory	GRUNDFOS WATER TREATMENT VALVES AND DIAPHRAGM	3
PP018480-S	UTILITY SPARE	Inventory	HOSE PVC 4/6 2M	2
PP018490-S	UTILITY SPARE	Inventory	HPU HYDRAULIC PUMP	1
PP018500-S	UTILITY SPARE	Inventory	INGERSOLL-DRESSER TG6 OIL PUMP SEAL	1
PP018510-S	UTILITY SPARE	Inventory	INSTALLATION I003 PV/T/C-0.17"X	1
PP018520-S	UTILITY SPARE	Inventory	JOURNAL SLEEVE	1
PP018530-S	UTILITY SPARE	Inventory	KNF MICRO PUMP DIAPHRAGM VALVEPLATE	1
PP018540-S	UTILITY SPARE	Inventory	LITTLE GIANT CONDENSATE	1
PP018550-S	UTILITY SPARE	Inventory	MAC 155 CALIBRATION PUMP	2
PP018560-S	UTILITY SPARE	Inventory	MAC 155 SAMPLE PUMP	2
PP018580-S	UTILITY SPARE	Inventory	MASTERFLEX EASY-LOAD II PERISTALTIC PUMP HEAD	1
PP018590-S	UTILITY SPARE	Inventory	MASTERFLEX PERISTALTIC PUMP TUBING	1
PP018600-S	UTILITY SPARE	Inventory	MASTERFLEX PRECISION PUMP TUBING 25FT, 1/4" ID	1
PP018610-S	UTILITY SPARE	Inventory	MASTERFLEX VITON PERISTALTIC PUMP TUBING	3
PP018620-S	UTILITY SPARE	Inventory	MECHANICAL SEAL	1
PP018630-S	UTILITY SPARE	Inventory	MODY SUMP PUMP	1
PP018640-S	UTILITY SPARE	Inventory	JOHN CRANE TYPE 21 MECHANICAL SEAL	1
PP018650-S	UTILITY SPARE	Inventory	POWER PROCESS SEAL	4
PP018660-S	UTILITY SPARE	Inventory	PROMINENT SOLENOID METERING PUMP	1
PP018670-S	UTILITY SPARE	Inventory	PROMINENT SOLENOID METERING PUMP GAMMA/L	2
PP018680-S	UTILITY SPARE	Inventory	PUMP ASSEMBLY	2
PP018690-S	UTILITY SPARE	Inventory	PUMP CLAMP	2
PP018700-S	UTILITY SPARE	Inventory	PUMP SEAL	1
PP018710-S	UTILITY SPARE	Inventory	SCREEN WASH PUMP KIT	1
PP018720-S	UTILITY SPARE	Inventory	SPIRALTRAC BACKWASH PUMP	2
PP018730-S	UTILITY SPARE	Inventory	STAINLESS STEEL FLOAT 5" DIAMETER	1
PP018740-S	UTILITY SPARE	Inventory	STAINLESS STEEL OBLONG FLOAT 6" DIAMETER	1
PP018750-S	UTILITY SPARE	Inventory	STANCOR 3HP SUBMERSIBLE PUMP	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP018760-S	UTILITY SPARE	Inventory	SUMMIT PUMP RIVER WATER BACKWASH PUMP	2
PP018770-S	UTILITY SPARE	Inventory	SUNDYNE PUMP GASKET KIT	1
PP018780-S	UTILITY SPARE	Inventory	UCC PRESSURE PUMP	1
PP018790-S	UTILITY SPARE	Inventory	WALCHEM E-CLASS METERING PUMP	2
PP018810-S	UTILITY SPARE	Inventory	WALCHEM E-CLASS METERING PUMP	2
PP018820-S	UTILITY SPARE	Inventory	WALCHEM METERING PUMP	1
PP018830-S	UTILITY SPARE	Inventory	WALCHEM METERING PUMP REPAIR KIT	3
PP018840-S	UTILITY SPARE	Inventory	WILDEN ELASTOMER PUMP REPAIR KIT	2
PP018850-S	UTILITY SPARE	Inventory	WILDEN ELASTOMER REPAIR KIT	2
PP018860-S	UTILITY SPARE	Inventory	WORTHINGTON OIL PUMP SEAL	1
PP018870-S	UTILITY SPARE	Inventory	ZOELLER SUMP PUMP	1
PP018880-S	UTILITY SPARE	Inventory	ZOELLER SUMP PUMP	1
PP018890-S	UTILITY SPARE	Inventory	ZOELLER SUMP PUMP	2
PP018900-S	UTILITY SPARE	Inventory	GOULDS PUMP CARTRIDGE SEAL	3
PP018910-S	UTILITY SPARE	Inventory	GOULDS PUMPS	2
PP018920-S	UTILITY SPARE	Inventory	MROY CONTROLLED VOLUME PUMP	1
PP018930-S	UTILITY SPARE	Inventory	STANCOR SUBMERSIBLE PIT PUMP	1
PP018940-S	UTILITY SPARE	Inventory	STERLING CONDENSATE PUMP	1
PP018950-S	UTILITY SPARE	Inventory	SULZER PUMP	1
PP018960-S	UTILITY SPARE	Inventory	WEINMAN SPLITCASE PUMP	1
PP018970-S	UTILITY SPARE	Inventory	WILDEN PUMP	1
PP018980-S	UTILITY SPARE	Inventory	WILDEN PUMP	2
PP018990-S	UTILITY SPARE	Inventory	WORTHINGTON ROTARY PUMP	1
PP019000-S	UTILITY SPARE	Inventory	BALDOR RELIANCE CENTRIFUGAL PUMP	1
PP019010-S	UTILITY SPARE	Inventory	BALDOR RELIANCE CENTRIFUGAL PUMP	1
PP019020-S	UTILITY SPARE	Inventory	END BLADE UNDERBLADE	7
PP019030-S	UTILITY SPARE	Inventory	FLOWERVE PROCESS PUMP	1
PP019040-S	UTILITY SPARE	Inventory	FLOWERVE PROCESS PUMP	1
PP019050-S	UTILITY SPARE	Inventory	FYBROC PUMP	1
PP019060-S	UTILITY SPARE	Inventory	GOULD IMPELLER	1
PP019070-S	UTILITY SPARE	Inventory	IMPELLER	1
PP019080-S	UTILITY SPARE	Inventory	SHAFT WITH IMPELLER	1
PP019090-S	UTILITY SPARE	Inventory	VANTON FLEX-I-LINER	1
PP019100-S	UTILITY SPARE	Inventory	VICKERS PUMP	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP019110-S	UTILITY SPARE	Inventory	WEINMANN PUMP	1
PP019120-S	UTILITY SPARE	Inventory	STEEL RAILING BRACKET	26
PP019130-S	UTILITY SPARE	Inventory	STEEL GRATED STEPS	1
PP019140-S	UTILITY SPARE	Inventory	ABB THERMAL OVERLOAD RELAY	1
PP019150-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY ADAPTER PLATE	1
PP019160-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	1
PP019170-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 11-BLADE SOCKET	8
PP019180-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 11-PIN SOCKET	2
PP019190-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 14-BLADE SOCKET	3
PP019200-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 24VDC RELAY	4
PP019210-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 24VDC RELAY	1
PP019220-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 600 V RELAY	2
PP019230-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 700 CONTROL (AC) RELAY	2
PP019240-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 700 CONTROL RELAY	2
PP019250-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 700 CONTROL RELAY	1
PP019270-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC RELAY	2
PP019280-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC RELAY	2
PP019290-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AC RELAY	1
PP019300-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	1
PP019310-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	2
PP019320-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	2
PP019330-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	1
PP019340-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	1
PP019350-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL RELAY	2
PP019360-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DASHPOT AND PLUNGER	1
PP019370-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY DASHPOT FLUID	1
PP019380-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY FRONT DECK CONTACT CARTRIDGE	9
PP019390-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MULTI FUNCTION TIMING RELAY	3
PP019400-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	4
PP019410-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	4
PP019420-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019430-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	5
PP019440-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	6
PP019450-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP019460-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019470-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	7
PP019480-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	1
PP019490-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019500-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019510-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	5
PP019520-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019530-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019540-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019550-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	1
PP019560-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	10
PP019570-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019580-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	5
PP019590-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	7
PP019600-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019610-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	2
PP019620-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	4
PP019630-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	4
PP019640-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	4
PP019650-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	8
PP019660-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	9
PP019670-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019680-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	6
PP019690-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019700-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019710-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019720-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	9
PP019730-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	9
PP019740-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019750-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	3
PP019760-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD RELAY	1
PP019770-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY R. H. OVERLOAD RELAY	1
PP019780-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY REAR DECK CONTACT CARTRIDGE	9
PP019790-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP019800-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	2
PP019810-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	15
PP019820-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	2
PP019830-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	4
PP019840-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD RELAY	2
PP019850-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY & SOCKET	1
PP019860-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019870-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019880-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019890-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019900-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019910-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	1
PP019920-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	3
PP019930-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	2
PP019940-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	2
PP019950-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	5
PP019960-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY COIL	7
PP019970-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY REPEAT CYCLE TIMER RELAY	1
PP019980-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SOLID STATE RELAY	4
PP019990-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TIMER MULTIFUNCTION	7
PP020000-S	UTILITY SPARE	Inventory	ATC 15-MINUTE RESET TIMER	1
PP020010-S	UTILITY SPARE	Inventory	ATC ALTERNATING RELAY	2
PP020020-S	UTILITY SPARE	Inventory	ATC FLIP-FLOP TIMER	1
PP020030-S	UTILITY SPARE	Inventory	ATC TIME DELAY RELAYS	1
PP020040-S	UTILITY SPARE	Inventory	ATC TIMER	1
PP020060-S	UTILITY SPARE	Inventory	CONCOA PRECISION GAS CONTROL	1
PP020070-S	UTILITY SPARE	Inventory	C-RN TIMER	3
PP020080-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	8
PP020090-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020100-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	3
PP020110-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	6
PP020120-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	7
PP020130-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	7
PP020140-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	8

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP020150-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	13
PP020160-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	6
PP020170-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	6
PP020180-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	3
PP020190-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	3
PP020200-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020210-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	11
PP020220-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020230-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	2
PP020240-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020250-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	8
PP020260-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020270-S	UTILITY SPARE	Inventory	CUTLER-HAMMER OVERLOAD HEATER UNIT	9
PP020280-S	UTILITY SPARE	Inventory	CUTLER-HAMMER TYPE M RELAY POLE	30
PP020290-S	UTILITY SPARE	Inventory	CUTLER-HAMMER TYPE M RELAY POLE	31
PP020300-S	UTILITY SPARE	Inventory	DAYTON RELAY SOCKET	9
PP020310-S	UTILITY SPARE	Inventory	DAYTON RELAY SOCKET BASE	1
PP020320-S	UTILITY SPARE	Inventory	DELTROL RELAY	3
PP020330-S	UTILITY SPARE	Inventory	DUNCO 120V 60 CY RELAY	2
PP020340-S	UTILITY SPARE	Inventory	EAGLE SIGNAL PRESET RESET TIMER	4
PP020350-S	UTILITY SPARE	Inventory	EATON OVERLOAD HEATER UNIT	6
PP020360-S	UTILITY SPARE	Inventory	EATON OVERLOAD HEATER UNIT	6
PP020370-S	UTILITY SPARE	Inventory	EATON OVERLOAD HEATER UNIT	9
PP020380-S	UTILITY SPARE	Inventory	EATON OVERLOAD HEATER UNIT	3
PP020390-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	4
PP020400-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	6
PP020410-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	6
PP020420-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	8
PP020430-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	6
PP020440-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	3
PP020450-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	9
PP020460-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	3
PP020470-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	6
PP020480-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP020490-S	UTILITY SPARE	Inventory	FURNAS OVERLOAD HEATER UNIT	12
PP020500-S	UTILITY SPARE	Inventory	GE RELAY COIL	2
PP020510-S	UTILITY SPARE	Inventory	GE OVERLOAD HEATER UNIT	9
PP020520-S	UTILITY SPARE	Inventory	GE OVERLOAD HEATER UNIT	3
PP020530-S	UTILITY SPARE	Inventory	GE OVERLOAD HEATER UNIT	6
PP020540-S	UTILITY SPARE	Inventory	GE OVERLOAD HEATER UNIT	1
PP020550-S	UTILITY SPARE	Inventory	IDEC IZUMI 5 SECOND TIMER RELAY	1
PP020560-S	UTILITY SPARE	Inventory	IMIT CONTROL UNIT	1
PP020570-S	UTILITY SPARE	Inventory	L-RON SOLID STATE TIMER	3
PP020580-S	UTILITY SPARE	Inventory	MAGNECRAFT RELAY SOCKET	1
PP020590-S	UTILITY SPARE	Inventory	MILLTRONICS RELAY	6
PP020600-S	UTILITY SPARE	Inventory	MTL INTRINSICALLY SAFE BARRIER ASEMBLY	1
PP020610-S	UTILITY SPARE	Inventory	NCC TIME DELAY RELAY	1
PP020620-S	UTILITY SPARE	Inventory	OMRON DIGITAL TIMER RELAY	1
PP020630-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020640-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	3
PP020650-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020660-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020670-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020680-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020690-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	2
PP020700-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	7
PP020710-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	3
PP020720-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	1
PP020730-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	3
PP020740-S	UTILITY SPARE	Inventory	OVERLOAD HEATER UNIT	3
PP020750-S	UTILITY SPARE	Inventory	POTTER & BRUMFIELD 10-SECOND TIMER RELAY	1
PP020760-S	UTILITY SPARE	Inventory	POTTER & BRUMFIELD RELAY	1
PP020770-S	UTILITY SPARE	Inventory	POTTER & BRUMFIELD CONTROL RELAY	2
PP020780-S	UTILITY SPARE	Inventory	SQAURE D THERMAL OVERLOAD RELAY CONTACTOR	2
PP020790-S	UTILITY SPARE	Inventory	SQUARE D AC CONTROL RELAY	1
PP020800-S	UTILITY SPARE	Inventory	SQUARE D INDUSTRIAL CONTROL RELAY	1
PP020810-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP020820-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP020830-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP020840-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020850-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	6
PP020860-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP020870-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020880-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP020890-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020900-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	4
PP020910-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020920-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	10
PP020930-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	5
PP020940-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020950-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020960-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020970-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP020980-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	8
PP020990-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP021000-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	1
PP021010-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP021020-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	4
PP021030-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	5
PP021040-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP021050-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	16
PP021060-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021070-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	5
PP021080-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	1
PP021090-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	4
PP021100-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	4
PP021110-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	1
PP021120-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021130-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021140-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2
PP021150-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	10
PP021160-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP021170-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	7
PP021180-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	6
PP021190-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021200-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021210-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	1
PP021220-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	4
PP021230-S	UTILITY SPARE	Inventory	SQUARE D OVERLOAD HEATER UNIT	3
PP021240-S	UTILITY SPARE	Inventory	SQUARE D RELAY SOCKET	6
PP021250-S	UTILITY SPARE	Inventory	SQUARE D RELAY SOCKET	6
PP021260-S	UTILITY SPARE	Inventory	SQUARE D RELAY THERMAL UNIT	12
PP021270-S	UTILITY SPARE	Inventory	SQUARE D RELAY THERMAL UNIT	3
PP021280-S	UTILITY SPARE	Inventory	SQUARE D THERMAL UNIT	2
PP021290-S	UTILITY SPARE	Inventory	SQUARE D THERMAL UNIT	3
PP021300-S	UTILITY SPARE	Inventory	TYCO ELECTRONICS GENERAL PURPOSE RELAY	3
PP021310-S	UTILITY SPARE	Inventory	TYCO ELECTRONICS RELAY	4
PP021320-S	UTILITY SPARE	Inventory	WESTINGHOUSE CONTROL RELAY	4
PP021330-S	UTILITY SPARE	Inventory	WESTINGHOUSE INDUSTRIAL CONTROL RELAY	1
PP021340-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021350-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	2
PP021360-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	2
PP021370-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	7
PP021380-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021390-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	1
PP021400-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021410-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	5
PP021420-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	1
PP021430-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021440-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	5
PP021450-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	1
PP021460-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021470-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	6
PP021480-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	6
PP021490-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	5
PP021500-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP021510-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	1
PP021520-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	3
PP021530-S	UTILITY SPARE	Inventory	WESTINGHOUSE OVERLOAD HEATER UNIT	2
PP021540-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 120VAC RELAY	2
PP021550-S	UTILITY SPARE	Inventory	EBG HIGH POWER RESISTOR	3
PP021560-S	UTILITY SPARE	Inventory	OHMITE RESISTOR	10
PP021570-S	UTILITY SPARE	Inventory	VISHAY WIREWOUND RESISTOR	3
PP021580-S	UTILITY SPARE	Inventory	POST GLOVER DYNAMIC BRAKING RESISTORS	4
PP021590-S	UTILITY SPARE	Inventory	WEG THERMISTOR	1
PP021600-S	UTILITY SPARE	Inventory	CODELINE RO FILTER HEAD ASSEMBLY	2
PP021610-S	UTILITY SPARE	Inventory	END ADAPTER	1
PP021620-S	UTILITY SPARE	Inventory	FARRIS RO HEX SAFETY RELIEF VALVE	1
PP021630-S	UTILITY SPARE	Inventory	GRUNDFOS RO PUMP FLANGES	1
PP021640-S	UTILITY SPARE	Inventory	GRUNDFOS SHAFT SEAL KIT	1
PP021660-S	UTILITY SPARE	Inventory	PWT SEAL	12
PP021670-S	UTILITY SPARE	Inventory	QUAD STYLE RO VESSEL HEAD SEAL	5
PP021680-S	UTILITY SPARE	Inventory	RO HEX TRAP KIT	1
PP021690-S	UTILITY SPARE	Inventory	RO HEX TUBE BUNDLE	1
PP021700-S	UTILITY SPARE	Inventory	RO TANK DRAIN	1
PP021710-S	UTILITY SPARE	Inventory	RO THRUST CONE	1
PP021740-S	UTILITY SPARE	Inventory	1" ROUND GLASS ROPE	11
PP021750-S	UTILITY SPARE	Inventory	1" SQUARE GLASS ROPE	2
PP021760-S	UTILITY SPARE	Inventory	1/2" ROUND GLASS ROPE	1
PP021780-S	UTILITY SPARE	Inventory	10" TURBINE BYPASS PRV GASKET	1
PP021790-S	UTILITY SPARE	Inventory	1-1/2" SOLID TFE GASKET 554 LXD	2
PP021800-S	UTILITY SPARE	Inventory	1-1/8" SOLID TFE GASKET 554 JRD	2
PP021810-S	UTILITY SPARE	Inventory	17.5" GRAPHITE GASKET	7
PP021820-S	UTILITY SPARE	Inventory	3/4" ROUND GLASS ROPE	1
PP021830-S	UTILITY SPARE	Inventory	3/4" SQUARE GLASS ROPE	4
PP021840-S	UTILITY SPARE	Inventory	5" RUBBER GASKET	10
PP021850-S	UTILITY SPARE	Inventory	5/8" ROUND GLASS ROPE	1
PP021860-S	UTILITY SPARE	Inventory	7" D 1/4" H RUBBER GASKET	12
PP021870-S	UTILITY SPARE	Inventory	7" X 5.5" RECTANGULAR FIBER GASKET	1
PP021880-S	UTILITY SPARE	Inventory	8" PRV STRAINER GASKET 304FG 150 ASME	5

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP021890-S	UTILITY SPARE	Inventory	8" ROUND CLOTH GASKET	1
PP021910-S	UTILITY SPARE	Inventory	A-7 TURBINE GOVERNOR COVER GASKET	1
PP021920-S	UTILITY SPARE	Inventory	MCMASTER-CARR FLANGE ISOLATION GASKET KIT	3
PP021930-S	UTILITY SPARE	Inventory	ARC COMPOSITE TECHNOLOGY RAPID CURING EMEGENCY LEAK SEALING COMPOUND	3
PP021940-S	UTILITY SPARE	Inventory	ASSORTED FLAT SEALS	18
PP021950-S	UTILITY SPARE	Inventory	BANJO 3" EPDM CAM AND GROOVE GASKET	24
PP021960-S	UTILITY SPARE	Inventory	COMFORT SEAL POLY FOAM BACKER ROD 3/8" DIA. 20FT LENGTH	1
PP021970-S	UTILITY SPARE	Inventory	FEED WATER HEATER GASKET	1
PP021980-S	UTILITY SPARE	Inventory	FIBER FLAT GLASS GASKETS SIZE #8	12
PP021990-S	UTILITY SPARE	Inventory	FLAT RUBBER GASKET 17.25X13.5" OVAL	2
PP022000-S	UTILITY SPARE	Inventory	FLEXITALLIC 1-1/4" 3-4-600 ASME GASKET	10
PP022010-S	UTILITY SPARE	Inventory	FLEXITALLIC 1" 150 ASME GASKET	10
PP022020-S	UTILITY SPARE	Inventory	FLEXITALLIC 1" 3-4-600 ASME GASKET	10
PP022030-S	UTILITY SPARE	Inventory	FLEXITALLIC 1" 9/1500 ASME GASKET	12
PP022040-S	UTILITY SPARE	Inventory	FLEXITALLIC 1/2" 150 ASME GASKET	5
PP022050-S	UTILITY SPARE	Inventory	FLEXITALLIC 1/2" 3-4-600 ASME GASKET	26
PP022060-S	UTILITY SPARE	Inventory	FLEXITALLIC 10" 300 ASME GASKET	6
PP022070-S	UTILITY SPARE	Inventory	FLEXITALLIC 10" 400 ASME GASKET	1
PP022080-S	UTILITY SPARE	Inventory	FLEXITALLIC 10" 600 ASME GASKET	7
PP022090-S	UTILITY SPARE	Inventory	FLEXITALLIC 1-1/2" 3-4-600 ASME GASKET	10
PP022100-S	UTILITY SPARE	Inventory	FLEXITALLIC 12" 300 ASME GASKET	3
PP022110-S	UTILITY SPARE	Inventory	FLEXITALLIC 12" 600 ASME GASKET	4
PP022120-S	UTILITY SPARE	Inventory	FLEXITALLIC 14" 600 ASME GASKET	22
PP022130-S	UTILITY SPARE	Inventory	FLEXITALLIC 2-1/2" 150 ASME GASKET	4
PP022140-S	UTILITY SPARE	Inventory	FLEXITALLIC 2-1/2" 9-1500 ASME GASKET	5
PP022150-S	UTILITY SPARE	Inventory	FLEXITALLIC 2" 150 ASME GASKET	6
PP022170-S	UTILITY SPARE	Inventory	FLEXITALLIC 2" 3-4-600 ASME GASKET	12
PP022190-S	UTILITY SPARE	Inventory	FLEXITALLIC 20" 150 ASME GASKET	4
PP022200-S	UTILITY SPARE	Inventory	FLEXITALLIC 20" 600 ASME GASKET	3
PP022210-S	UTILITY SPARE	Inventory	FLEXITALLIC 2-1/2" 300/600 ASME GASKET	12
PP022220-S	UTILITY SPARE	Inventory	FLEXITALLIC 3-1/2" 150 ASME GASKET	12
PP022230-S	UTILITY SPARE	Inventory	FLEXITALLIC 3" 150 ASME GASKET	18
PP022240-S	UTILITY SPARE	Inventory	FLEXITALLIC 3" 3-4-600 ASME GASKET	23
PP022260-S	UTILITY SPARE	Inventory	FLEXITALLIC 3/4" 150 ASME GASKET	14

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP022270-S	UTILITY SPARE	Inventory	FLEXITALLIC 3/4" 9/1500 ASME GASKET	11
PP022290-S	UTILITY SPARE	Inventory	FLEXITALLIC 304/FG CRS	5
PP022300-S	UTILITY SPARE	Inventory	FLEXITALLIC 4" 150 ASME GASKET	7
PP022310-S	UTILITY SPARE	Inventory	FLEXITALLIC 4" 400 ASME GASKET	9
PP022320-S	UTILITY SPARE	Inventory	FLEXITALLIC 4" 600 ASME GASKET	7
PP022330-S	UTILITY SPARE	Inventory	FLEXITALLIC 4" 300 ASME GASKET	4
PP022340-S	UTILITY SPARE	Inventory	FLEXITALLIC 6" 150 ASME GASKET	17
PP022350-S	UTILITY SPARE	Inventory	FLEXITALLIC 6" 300 ASME GASKET	21
PP022370-S	UTILITY SPARE	Inventory	FLEXITALLIC 8" 300 ASME GASKET	8
PP022390-S	UTILITY SPARE	Inventory	FLEXITALLIC 8" 600 HECG GASKET	4
PP022400-S	UTILITY SPARE	Inventory	FLEXITALLIC 8" 600 ASME GASKET	17
PP022420-S	UTILITY SPARE	Inventory	FLEXITALLIC GASKET	1
PP022430-S	UTILITY SPARE	Inventory	FLEXITALLIC 8" 150 ASME GASKET	4
PP022440-S	UTILITY SPARE	Inventory	GARLOCK 9850 1/16" GASKET MATERIAL SHEET	1
PP022450-S	UTILITY SPARE	Inventory	GARLOCK 9850 1/8" GASKET MATERIAL SHEET	1
PP022460-S	UTILITY SPARE	Inventory	GARLOCK BLUE-GARD 6" & 7.5" FLANGE GASKET	2
PP022470-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 1" 150 ASME 304-FG	6
PP022480-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 10" 600 ASME 304FG 304IR	5
PP022490-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 1-1/4" 3/600 ASME 304/FG 304IR	7
PP022500-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 12" 150 ASME 304 FG	6
PP022510-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 12" 200 ASME 304/304 FG	6
PP022520-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 5" 150 ASME 304 FG	5
PP022530-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 5" 300 ASME 304FG/304IR	5
PP022540-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 6" 600 ASME 304 FG 304 IR	6
PP022550-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 8" 400 ASME 304/304 FG	4
PP022570-S	UTILITY SPARE	Inventory	GASKET	1
PP022580-S	UTILITY SPARE	Inventory	GASKET	4
PP022590-S	UTILITY SPARE	Inventory	GASKET	2
PP022600-S	UTILITY SPARE	Inventory	GASKETS	4
PP022610-S	UTILITY SPARE	Inventory	GASKETS	1
PP022620-S	UTILITY SPARE	Inventory	GLASS ROPE 3/4 IN	4
PP022630-S	UTILITY SPARE	Inventory	GLASS-FILLED TEFLON O RING	12
PP022640-S	UTILITY SPARE	Inventory	POWER PROCESS GRAFOIL FOIL GASKET	7
PP022650-S	UTILITY SPARE	Inventory	GRAPHITE OVAL GASKET 16"X17.5"X0.125"	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP022660-S	UTILITY SPARE	Inventory	GRAY GARLOCK GASKET	2
PP022670-S	UTILITY SPARE	Inventory	LAMONS OVAL RING JOINT GASKET (STYLE 337)	6
PP022680-S	UTILITY SPARE	Inventory	MASONEILAN SEALS, GASKETS ETC...	1
PP022690-S	UTILITY SPARE	Inventory	MCMASTER-CARR GLASS 1" ROPE	2
PP022700-S	UTILITY SPARE	Inventory	O-RING	6
PP022710-S	UTILITY SPARE	Inventory	O-RING	10
PP022720-S	UTILITY SPARE	Inventory	POLYESTER CUSTOM GASKET MATERIAL	1
PP022730-S	UTILITY SPARE	Inventory	PORT SEAL	8
PP022740-S	UTILITY SPARE	Inventory	PORT SEAL	12
PP022760-S	UTILITY SPARE	Inventory	POWER PROCESS GRAFOIL GASKET 3-1/2"X2-1/2"X3/8"	8
PP022770-S	UTILITY SPARE	Inventory	POWER PROCESS GRAFOIL GASKET 4-1/2"X3-1/2"X3/8"	25
PP022780-S	UTILITY SPARE	Inventory	RDC GASKET AND SEAL	3
PP022790-S	UTILITY SPARE	Inventory	RNG 05 GASKET	4
PP022800-S	UTILITY SPARE	Inventory	RUBBER FLANGE GASKET 2" INNER DIAMETER	3
PP022810-S	UTILITY SPARE	Inventory	SEAL GENERIC	2
PP022820-S	UTILITY SPARE	Inventory	SEALS	6
PP022830-S	UTILITY SPARE	Inventory	SEALS	7
PP022840-S	UTILITY SPARE	Inventory	TAPE KNIT 1" GLASS ROPE	6
PP022850-S	UTILITY SPARE	Inventory	TAPE KNIT 1.5" GLASS ROPE	3
PP022860-S	UTILITY SPARE	Inventory	TAPE KNIT 2" GLASS ROPE	3
PP022870-S	UTILITY SPARE	Inventory	TAPE KNIT 3" GLASS ROPE	3
PP022880-S	UTILITY SPARE	Inventory	TEADIT 16" 600 ASME 316L/FG 316LIR	5
PP022890-S	UTILITY SPARE	Inventory	TEADIT 3" 150 ASME 304 FG	1
PP022900-S	UTILITY SPARE	Inventory	GORE TG6 CONDENSER DOOR GASKET TAPE	1
PP022910-S	UTILITY SPARE	Inventory	THERMOSEAL FLANGE GASKETS	4
PP022920-S	UTILITY SPARE	Inventory	TOPOG-E CUSTOM GASKET MATERIAL	1
PP022930-S	UTILITY SPARE	Inventory	TOPOG-E GASKET 12X16X1 1/2 - OB	8
PP022940-S	UTILITY SPARE	Inventory	TOPOG-E GASKET 11.5X15.5X1.25 E	6
PP022950-S	UTILITY SPARE	Inventory	TOPOG-E GASKET 11X15X1 1/4 - E	5
PP022960-S	UTILITY SPARE	Inventory	TOPOG-E GASKET 12X16X1 E	12
PP022970-S	UTILITY SPARE	Inventory	TOPOG-E GASKET 4X6X3/4-E	1
PP022980-S	UTILITY SPARE	Inventory	TREMCO GASKET ADHESIVE LINING	1
PP022990-S	UTILITY SPARE	Inventory	UCC 5" ROUND GASKET	2
PP023000-S	UTILITY SPARE	Inventory	UCC 6.5" OVAL GASKET	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP023010-S	UTILITY SPARE	Inventory	UCC ASH SYSTEM 6" SLIDE GATE GASKET	3
PP023020-S	UTILITY SPARE	Inventory	UCC GASKET 1/8" THICK	1
PP023030-S	UTILITY SPARE	Inventory	UCC GASKET-CYL	1
PP023040-S	UTILITY SPARE	Inventory	USA SEALING SIZE 459 O-RING	12
PP023050-S	UTILITY SPARE	Inventory	WRIGHT COMPANY GASKET MISC 3/4"	1
PP023060-S	UTILITY SPARE	Inventory	ENCLOSED GEARBOX GASKET	2
PP023070-S	UTILITY SPARE	Inventory	FOAM GASKET	2
PP023080-S	UTILITY SPARE	Inventory	KLINGERSIL TRANSITION OUTLET GASKET	4
PP023090-S	UTILITY SPARE	Inventory	LOCTITE PERMATEX SEALER	2
PP023100-S	UTILITY SPARE	Inventory	SEAL GASKET	8
PP023110-S	UTILITY SPARE	Inventory	.375 SQUARE BUNA-N O-RING	50
PP023120-S	UTILITY SPARE	Inventory	COMBUSTOR GASKET BOX	1
PP023130-S	UTILITY SPARE	Inventory	DODGE SEAL KIT	2
PP023140-S	UTILITY SPARE	Inventory	GASKET ROPE	3
PP023150-S	UTILITY SPARE	Inventory	GASKET ROPE	3
PP023160-S	UTILITY SPARE	Inventory	GRAPHITE PADS	1
PP023170-S	UTILITY SPARE	Inventory	SEAL GASKET	2
PP023180-S	UTILITY SPARE	Inventory	ACTION INSTRUMENTS ISOLATOR	3
PP023190-S	UTILITY SPARE	Inventory	AI TEK BOILER 11 ASH SCREW SPEED SENSOR	2
PP023200-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY BOILER 10 PROXIMITY SENSORS	5
PP023210-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY INDUCTIVE PROXIMITY SENSOR	2
PP023220-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY INDUCTIVE PROXIMITY SENSOR	1
PP023230-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK ENCLOSURE	1
PP023240-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK LINE POWERED LEVEL SWITCH	1
PP023250-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK THERMOCOUPLE	1
PP023260-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK THERMOCOUPLE	1
PP023270-S	UTILITY SPARE	Inventory	AMETEK INTELLIPOINT MODEL LEVEL DETECTOR	1
PP023280-S	UTILITY SPARE	Inventory	ASH UNLOADER BINDICATOR	1
PP023290-S	UTILITY SPARE	Inventory	AUBURN ENGINEERING PRODUCTS SENSOR PROBE	1
PP023300-S	UTILITY SPARE	Inventory	AUTOMATION CONTROL UNIT	6
PP023310-S	UTILITY SPARE	Inventory	AUTOMATION PRODUCT GROUP ULTRASONIC LEVEL SENSOR KIT	1
PP023320-S	UTILITY SPARE	Inventory	AUTOMATION RELAY CONTACT	6
PP023330-S	UTILITY SPARE	Inventory	AUTOMATION RELAY CONTACT	4
PP023340-S	UTILITY SPARE	Inventory	AUTOMATION PRODUCTS COAL PROBE CONTROLLERS	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP023350-S	UTILITY SPARE	Inventory	BAILEY INFI90 IEPASO2	8
PP023360-S	UTILITY SPARE	Inventory	BEI ENCODER	1
PP023370-S	UTILITY SPARE	Inventory	BENTLY NEVADA VELOMITOR	5
PP023380-S	UTILITY SPARE	Inventory	BENTLY NEVADA VELOMITORS	2
PP023390-S	UTILITY SPARE	Inventory	BENTLY NEVADA 3300 POWER SUPPLY	1
PP023400-S	UTILITY SPARE	Inventory	BENTLY NEVADA ASSET CONDITION MONITOR VELOMITOR	2
PP023410-S	UTILITY SPARE	Inventory	BENTLY NEVADA VELOMITOR FOR RIVER WATER PUMP	1
PP023420-S	UTILITY SPARE	Inventory	BIN TEMP 612	1
PP023430-S	UTILITY SPARE	Inventory	BINDICATOR	1
PP023440-S	UTILITY SPARE	Inventory	BINDICATOR ROTO-BIN-DICATOR	1
PP023450-S	UTILITY SPARE	Inventory	BINMASTER SMARTBOB 2 AO INVENTORY MANAGEMENT SYSTEM	2
PP023460-S	UTILITY SPARE	Inventory	BLR 11 SAMPLE PROBE	2
PP023480-S	UTILITY SPARE	Inventory	BOILER 11 ROSEMOUNT OXYGEN MONITOR	1
PP023490-S	UTILITY SPARE	Inventory	BRINE TANK PRESSURE TRANSMITTER	1
PP023500-S	UTILITY SPARE	Inventory	CLARK-RELIANCE PROBE	1
PP023510-S	UTILITY SPARE	Inventory	CLARK-RELIANCE PROBE	2
PP023520-S	UTILITY SPARE	Inventory	CLARK-RELIANCE CIRCUIT BOARD FOR EYE-HYE CONTROL UNIT	1
PP023530-S	UTILITY SPARE	Inventory	CLARK-RELIANCE CUTOFF PROBES	3
PP023540-S	UTILITY SPARE	Inventory	CLEAVER-BROOKS FLAME SCANNER FUSE	1
PP023550-S	UTILITY SPARE	Inventory	CLEAVER-BROOKS MINI-PEEPER FLAME SCANNER	1
PP023560-S	UTILITY SPARE	Inventory	CLEAVER-BROOKS ULTRAVIOLET AMPLIFIER	1
PP023570-S	UTILITY SPARE	Inventory	COEN FLAME SCANNER GREEN MODULE CONTROL	2
PP023580-S	UTILITY SPARE	Inventory	COEN UV7000 SIGNAL PROCESSOR	1
PP023590-S	UTILITY SPARE	Inventory	COEN UV7000 VIEWING HEAD	1
PP023600-S	UTILITY SPARE	Inventory	HUBBELL-KILLARK SENSOR ENCLOSURE WITH WINDOW	1
PP023610-S	UTILITY SPARE	Inventory	CURRENT TRANSDUCER	1
PP023620-S	UTILITY SPARE	Inventory	DETCO CALIBRATION ADAPTER TOXIC IS HOUSING	2
PP023630-S	UTILITY SPARE	Inventory	DETCO CO ANALYZER	1
PP023640-S	UTILITY SPARE	Inventory	DETCO IS SENSOR HEAD	1
PP023650-S	UTILITY SPARE	Inventory	DETCO SENSOR CELL	1
PP023660-S	UTILITY SPARE	Inventory	DETCO TRANSMITTER MODULE	1
PP023670-S	UTILITY SPARE	Inventory	DIFFUSER/DUST SEAL	1
PP023680-S	UTILITY SPARE	Inventory	DIFFUSER/DUST SEAL	3
PP023690-S	UTILITY SPARE	Inventory	DIGITAL COLOR CAMERA	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP023700-S	UTILITY SPARE	Inventory	DETCO METHANE TERMINAL BOARD	1
PP023710-S	UTILITY SPARE	Inventory	DREXELBROOK BOILER 11 PLUG SHOT SENSOR	3
PP023720-S	UTILITY SPARE	Inventory	DREXELBROOK LEVEL CONTROL SENSOR	3
PP023730-S	UTILITY SPARE	Inventory	DREXELBROOK LEVEL CONTROL SENSOR HOUSING	3
PP023740-S	UTILITY SPARE	Inventory	DREXELBROOK LEVEL CONTROL SENSOR PARTS	2
PP023750-S	UTILITY SPARE	Inventory	DREXELBROOK UNIVERSAL II TRANSMITTER & PROBE	1
PP023760-S	UTILITY SPARE	Inventory	PUREGAS DRYER MAINTENANCE KIT	4
PP023770-S	UTILITY SPARE	Inventory	DYNATROL LEVEL DETECTOR	5
PP023780-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS PULSER DISC	8
PP023790-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS SCP1000	1
PP023800-S	UTILITY SPARE	Inventory	ELECTRODE KITS N1234-548	10
PP023810-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS 906 HALL EFFECT SENSOR	1
PP023820-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS 917A SHAFT SPEED SENSOR	3
PP023830-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS DR1000 SWITCH BOARD	2
PP023840-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS PULSAR COLLAR	3
PP023850-S	UTILITY SPARE	Inventory	ELECTRO-SENSORS SCP1000 SHAFT SPEED SWITCH	2
PP023860-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER RIA46 FIELD METER	2
PP023870-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER LEVEL SWITCH	1
PP023880-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER PREAMPLIFIER HOUSING	1
PP023890-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER TRANSMITTER MOUNT SER	4
PP023910-S	UTILITY SPARE	Inventory	FINCORE ELECTRONIC CURRENT SENSOR	3
PP023920-S	UTILITY SPARE	Inventory	FIREYE AUTOCHECK-INFRARED AMPLIFIER	1
PP023930-S	UTILITY SPARE	Inventory	FIREYE CLOSED FRAME WIRING BASE	1
PP023940-S	UTILITY SPARE	Inventory	FIREYE FLAMESENSOR MODULE	3
PP023950-S	UTILITY SPARE	Inventory	FIREYE INFRARED AUTO-CHECK FLAME AMPLIFIER MODULE	1
PP023960-S	UTILITY SPARE	Inventory	FIREYE INFRARED SCANNER	1
PP023970-S	UTILITY SPARE	Inventory	FIREYE INSIGHT FLAME SCANNER	2
PP023980-S	UTILITY SPARE	Inventory	FIREYE PROGRAMMER MODULE	1
PP023990-S	UTILITY SPARE	Inventory	FIREYE PROGRAMMER MODULE	1
PP024000-S	UTILITY SPARE	Inventory	FIREYE SELF-CHECK AMPLIFIER	1
PP024010-S	UTILITY SPARE	Inventory	FIREYE SELF-CHECK U V SCANNER	1
PP024020-S	UTILITY SPARE	Inventory	FIREYE SOLID STATE BURNER MANAGEMENT ADAPTOR BASE	1
PP024030-S	UTILITY SPARE	Inventory	FIREYE SOLID STATE BURNER MANAGEMENT CONTROLS	1
PP024040-S	UTILITY SPARE	Inventory	FIREYE SWIVEL MTG ADAPTER FOR 1" NPT SCANNER	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP024050-S	UTILITY SPARE	Inventory	FIREYE ULTRAVIOLET FLAME AMPLIFIER MODULE	1
PP024060-S	UTILITY SPARE	Inventory	FIREYE ULTRAVIOLET FLAME SCANNER	1
PP024070-S	UTILITY SPARE	Inventory	FLANGED THERMOCOUPLE HEAD	1
PP024080-S	UTILITY SPARE	Inventory	FLEXIBLE TEMPERATURE PROBE	2
PP024090-S	UTILITY SPARE	Inventory	FLUKE BOILER 11 IR SYSTEM KIT	1
PP024100-S	UTILITY SPARE	Inventory	FOSSIL POWER SYSTEMS HIGH PRESSURE BRAZED PROBE BOILER 10 LWCO	8
PP024110-S	UTILITY SPARE	Inventory	FOSSIL POWER SYSTEMS HIGH PRESSURE BRAZED PROBE BOILER 10 LWCO	8
PP024120-S	UTILITY SPARE	Inventory	HACH CHLORINE ANALYZER	1
PP024130-S	UTILITY SPARE	Inventory	HACH DESSICANT	1
PP024140-S	UTILITY SPARE	Inventory	HACH SP-510 HARDNESS MONITOR	1
PP024150-S	UTILITY SPARE	Inventory	HAMAMATSU PHOTOMULTIPLIER TUBE	1
PP024160-S	UTILITY SPARE	Inventory	HONEYWELL AMPLI-CHECK INFRARED AMPLIFIER	1
PP024170-S	UTILITY SPARE	Inventory	HONEYWELL COMBINATION UV/IR VIEWING HEAD	1
PP024180-S	UTILITY SPARE	Inventory	HONEYWELL DC SIGNAL PROCESSOR	1
PP024190-S	UTILITY SPARE	Inventory	IFM ELECTRONIC CAPACITY PROXIMITY SENSOR 15MM	1
PP024200-S	UTILITY SPARE	Inventory	IFM INDUCTIVE PROXIMITY SWITCHE HEX NUT	5
PP024210-S	UTILITY SPARE	Inventory	INTERNATIONAL POWER 24V DC POWER SUPPLY	1
PP024220-S	UTILITY SPARE	Inventory	IWAKI FLOW COUNTER SENSOR POSIFLOW	1
PP024230-S	UTILITY SPARE	Inventory	JERGUSON MAGNESTRICTIVE LEVEL TRANSMITTER & POINT LEVEL SWITCH	1
PP024240-S	UTILITY SPARE	Inventory	JOHNSON Y SHREDDER BAR	1
PP024250-S	UTILITY SPARE	Inventory	KIT HOLE PLUG, XI REMOTE	4
PP024260-S	UTILITY SPARE	Inventory	LAKEWOOD INSTRUMENTS CONDUCTIVITY PROBE KIT	1
PP024270-S	UTILITY SPARE	Inventory	LENOX INSTRUMENTS CAMERA ASSEMBLY	1
PP024280-S	UTILITY SPARE	Inventory	LVDT - TG6	2
PP024290-S	UTILITY SPARE	Inventory	M SYSTEM ISOLATOR	3
PP024300-S	UTILITY SPARE	Inventory	M SYSTEM SIGNAL TRANSMITTER	4
PP024310-S	UTILITY SPARE	Inventory	M8 MOUNT	1
PP024320-S	UTILITY SPARE	Inventory	MACRO SENSORS HEAVY DUTY ALUMINUM LVDT	1
PP024330-S	UTILITY SPARE	Inventory	MAGNETROL THERMOCOUPLE	1
PP024340-S	UTILITY SPARE	Inventory	MCDONNEL AND MILLER LOW-WATER CUTOFF	1
PP024350-S	UTILITY SPARE	Inventory	MICROSWITCH	1
PP024360-S	UTILITY SPARE	Inventory	MICROWAVE PLUG CHUTE SENSOR	1
PP024370-S	UTILITY SPARE	Inventory	MONITOR SILO PATROL MODEL SMU	1
PP024380-S	UTILITY SPARE	Inventory	MOORE INDUSTRIES ISOLATOR + CONVERTER	4

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP024390-S	UTILITY SPARE	Inventory	M-SYSTEM SIGNAL TRANSMITTER	1
PP024400-S	UTILITY SPARE	Inventory	NEWARK 24V DC POWER SUPPLY FOR DETCON CALIBRATION REGULATOR SYS.	1
PP024410-S	UTILITY SPARE	Inventory	NG MAGNETIC CLAMP	2
PP024420-S	UTILITY SPARE	Inventory	OMEGA 60" INSULATED THERMOCOUPLE ELEMENT	1
PP024430-S	UTILITY SPARE	Inventory	PHARES ELECTRONICS HALL EFFECT SENSOR	3
PP024440-S	UTILITY SPARE	Inventory	POLISHING AND SECONDARY FILTER	1
PP024450-S	UTILITY SPARE	Inventory	PRECISION DIGITAL UNIVERSAL TEMPERATURE METER	7
PP024460-S	UTILITY SPARE	Inventory	REDLER ROCON ROTATIONAL CONTROL UNIT	2
PP024470-S	UTILITY SPARE	Inventory	RELIANCE LEVALARM	1
PP024480-S	UTILITY SPARE	Inventory	RF-2500 ROTORFLOW SENSOR	2
PP024490-S	UTILITY SPARE	Inventory	ROSEMOUNT 3051 PRESSURE TRANSMITTER	4
PP024500-S	UTILITY SPARE	Inventory	ROSEMOUNT FLOWMETER	1
PP024510-S	UTILITY SPARE	Inventory	ROSEMONT PRESSURE TRANSMITTER	2
PP024520-S	UTILITY SPARE	Inventory	ROSEMOUNT 1/4" NIPPLE FITTING	2
PP024530-S	UTILITY SPARE	Inventory	ROSEMOUNT 1151 SMART TRANSMITTER	1
PP024540-S	UTILITY SPARE	Inventory	ROSEMOUNT 1151 SMART TRANSMITTER	1
PP024550-S	UTILITY SPARE	Inventory	ROSEMOUNT 3' CELL REPLACEMENT KIT	2
PP024560-S	UTILITY SPARE	Inventory	ROSEMOUNT 305 MANIFOLD	1
PP024570-S	UTILITY SPARE	Inventory	ROSEMOUNT 3051CD PRESSURE TRANSMITTER	1
PP024580-S	UTILITY SPARE	Inventory	ROSEMOUNT 3051CG COPLANAR TRANSMITER	1
PP024590-S	UTILITY SPARE	Inventory	ROSEMOUNT 3051S1 SUPERMODULE PRESSURE TRANSMITTER	2
PP024600-S	UTILITY SPARE	Inventory	ROSEMOUNT 644 TEMPERATURE TRASNMITTER	1
PP024610-S	UTILITY SPARE	Inventory	ROSEMOUNT ANALYTICAL 1055 ANALYZER	1
PP024620-S	UTILITY SPARE	Inventory	ROSEMOUNT ANALYTICAL CELL REPLACEMENT	1
PP024630-S	UTILITY SPARE	Inventory	ROSEMOUNT ANALYTICAL MONITOR	1
PP024640-S	UTILITY SPARE	Inventory	ROSEMOUNT ASH SCREW TEMPERATURE SENSOR	2
PP024650-S	UTILITY SPARE	Inventory	ROSEMOUNT BOILER MED PRESSURE STREAM FLOW TRANSMITTER	1
PP024660-S	UTILITY SPARE	Inventory	ROSEMOUNT CONNECTION HEAD	8
PP024670-S	UTILITY SPARE	Inventory	ROSEMOUNT CONNECTION HEAD	3
PP024680-S	UTILITY SPARE	Inventory	ROSEMOUNT EMERSON BOILER 11 O2 DIFFUSER	1
PP024690-S	UTILITY SPARE	Inventory	ROSEMOUNT FLANGE ADAPTER	22
PP024700-S	UTILITY SPARE	Inventory	ROSEMOUNT FUSE CONTROLLER MODULE	1
PP024710-S	UTILITY SPARE	Inventory	ROSEMOUNT INLINE PRESSURE TRANSMITTER & MANIFOLD	1
PP024720-S	UTILITY SPARE	Inventory	ROSEMOUNT INSTRUMENT MANIFOLD	4

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP024730-S	UTILITY SPARE	Inventory	ROSEMOUNT MAGNETIC 8732 FLOWMETER FACTORY CONFIGURATION	1
PP024740-S	UTILITY SPARE	Inventory	ROSEMOUNT MASS FLOW TRANSMITTER	2
PP024750-S	UTILITY SPARE	Inventory	ROSEMOUNT MODEL 3000 COMBUSTION FLUE GAS ANALYZER	1
PP024770-S	UTILITY SPARE	Inventory	ROSEMOUNT O2 MEMBRANE KEYPADS	1
PP024780-S	UTILITY SPARE	Inventory	ROSEMOUNT O2 REBUILD KIT	1
PP024790-S	UTILITY SPARE	Inventory	ROSEMOUNT O2 TRANSMITTER	1
PP024800-S	UTILITY SPARE	Inventory	ROSEMOUNT OXYMITTER	1
PP024810-S	UTILITY SPARE	Inventory	ROSEMOUNT PRESSURE TRANSMITTER	2
PP024820-S	UTILITY SPARE	Inventory	ROSEMOUNT PRESSURE TRANSMITTER	1
PP024830-S	UTILITY SPARE	Inventory	ROSEMOUNT PRESSURE TRANSMITTER	1
PP024840-S	UTILITY SPARE	Inventory	ROSEMOUNT PRESSURE TRANSMITTER	2
PP024850-S	UTILITY SPARE	Inventory	ROSEMOUNT RTD SENSORS - 100 OHM PLATINUM	4
PP024860-S	UTILITY SPARE	Inventory	ROSEMOUNT RTD THERMOWELL + HEAD	2
PP024870-S	UTILITY SPARE	Inventory	ROSEMOUNT SENSOR AND THERMOWELL	1
PP024880-S	UTILITY SPARE	Inventory	ROSEMOUNT SMART PRESSURE TRANSMITTER	2
PP024890-S	UTILITY SPARE	Inventory	ROSEMOUNT TEMPERATURE SENSOR	1
PP024900-S	UTILITY SPARE	Inventory	ROSEMOUNT TEMPERATURE SENSOR	1
PP024910-S	UTILITY SPARE	Inventory	ROSEMOUNT TEMPERATURE TRANSMITTER	4
PP024920-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOCOUPLE	1
PP024930-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL	3
PP024940-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL	1
PP024950-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL	1
PP024960-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL	1
PP024970-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL	2
PP024980-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOWELL AND HEAD	3
PP024990-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	3
PP025000-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	1
PP025010-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	2
PP025020-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	1
PP025030-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	1
PP025040-S	UTILITY SPARE	Inventory	ROSEMOUNT TRANSMITTER	2
PP025050-S	UTILITY SPARE	Inventory	ROSEMOUNT TRI-LOOP	1
PP025060-S	UTILITY SPARE	Inventory	ROSEMOUNT WAVE RADAR 5300 SERIES	1
PP025070-S	UTILITY SPARE	Inventory	ROSEMOUNT WIRING HOUSING	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP025080-S	UTILITY SPARE	Inventory	ROSEMOUNT WIRING HOUSING	2
PP025090-S	UTILITY SPARE	Inventory	ROSEMOUNT X-STREAM MONITOR	4
PP025100-S	UTILITY SPARE	Inventory	ROTRONIC MEASUREMENT SOLUTIONS HYGROCLIP2 DEW POINT PROBE	1
PP025110-S	UTILITY SPARE	Inventory	SEI THERMOCOUPLE	1
PP025120-S	UTILITY SPARE	Inventory	SIEMENS HYDRORANGER 200 LEVEL CONTROLLER (WATER)	1
PP025130-S	UTILITY SPARE	Inventory	SIEMENS LEVEL MEASUREMENT ULTRASONIC TRANSDUCER	3
PP025140-S	UTILITY SPARE	Inventory	SIEMENS LEVEL MEASUREMENT ULTRASONIC TRANSDUCER	1
PP025150-S	UTILITY SPARE	Inventory	SIEMENS LEVEL MEASUREMENT ULTRASONIC TRANSDUCER	1
PP025160-S	UTILITY SPARE	Inventory	SIEMENS LR400 DUST CAP LONG HORN	1
PP025170-S	UTILITY SPARE	Inventory	SIEMENS SITRANS PRESSURE TRANSMITTER	1
PP025180-S	UTILITY SPARE	Inventory	M-SYSTEM SIGNAL ISOLATOR	1
PP025190-S	UTILITY SPARE	Inventory	SIMONE ENGINEERING THERMOCOUPLE HEAD	3
PP025200-S	UTILITY SPARE	Inventory	SONA-SQUITCH LIQUID LEVEL INDICATOR	2
PP025220-S	UTILITY SPARE	Inventory	TELEDYNE FLANGE	1
PP025230-S	UTILITY SPARE	Inventory	TG6 PRECISION DIGITAL PROVU TEMPERATURE METER	3
PP025240-S	UTILITY SPARE	Inventory	THERMO ELECTRON THERMOCOUPLE PROBES	9
PP025250-S	UTILITY SPARE	Inventory	THERMO ELECTRON 42C NOX ANALYZER ANALOG/DIGITAL BOARD	1
PP025260-S	UTILITY SPARE	Inventory	THERMO ELECTRON 42C NOX ANALYZER C-LINK BOARD	1
PP025270-S	UTILITY SPARE	Inventory	THERMO ELECTRON 42C NOX ANALYZER DIGITAL/ANALOG BOARD	1
PP025280-S	UTILITY SPARE	Inventory	THERMO ELECTRON 42C NOX ANALYZER MOTHERBOARD	1
PP025290-S	UTILITY SPARE	Inventory	THERMO ELECTRON 42C NOX ANALYZER PROCESSOR BOARD	1
PP025300-S	UTILITY SPARE	Inventory	THERMO ELECTRON 440 OPACITY MONITOR POWER SUPPLY	1
PP025310-S	UTILITY SPARE	Inventory	THERMO ELECTRON 440 OPACITY MONITOR SHUTTER DETECTOR	1
PP025320-S	UTILITY SPARE	Inventory	THERMO ELECTRON CEMS FILTERS/DESSICANT & TUBING	1
PP025330-S	UTILITY SPARE	Inventory	THERMO ELECTRON DUAL POWER SUPPLY	2
PP025340-S	UTILITY SPARE	Inventory	THERMO ELECTRON OZONATOR ASSEMBLY	1
PP025350-S	UTILITY SPARE	Inventory	THERMO ELECTRON POWER SUPPLY	2
PP025360-S	UTILITY SPARE	Inventory	THERMOCOUPLE PARTS	1
PP025370-S	UTILITY SPARE	Inventory	THERMO ELECTRIC THERMOCOUPLE	1
PP025380-S	UTILITY SPARE	Inventory	THERMOWELL	1
PP025390-S	UTILITY SPARE	Inventory	TURCK INSTRINSICALLY SAFE SYSTEM	2
PP025400-S	UTILITY SPARE	Inventory	TURCK MULTI-MODUL SWITCHING AMPLIFIER	2
PP025410-S	UTILITY SPARE	Inventory	UNITED ELECTRIC THERMOSWITCH	2
PP025420-S	UTILITY SPARE	Inventory	VENTURE MEASUREMENT CO. GENUINE BINDICATOR	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP025430-S	UTILITY SPARE	Inventory	WALTRON SODIUM REFERENCE ELECTRODE REFILL KIT	5
PP025440-S	UTILITY SPARE	Inventory	WARRICK CONTROL ELECTRODE FITTING	1
PP025450-S	UTILITY SPARE	Inventory	WARRICK WATER LEVEL PROBE	2
PP025460-S	UTILITY SPARE	Inventory	WATER COLUMN FLOAT ROD, LOWER #5 & #6	4
PP025470-S	UTILITY SPARE	Inventory	WEED INSTRUMENTS THERMOCOUPLE	1
PP025480-S	UTILITY SPARE	Inventory	X-STREAM SENSOR BOX	1
PP025490-S	UTILITY SPARE	Inventory	YOKOGAWA CONDUCTIVITY TRANSMITTER	1
PP025500-S	UTILITY SPARE	Inventory	YOKOGAWA PROCESS ANALYSERS CONDUCTIVITY SENSOR	1
PP025510-S	UTILITY SPARE	Inventory	YOKOGAWA ZIRCONIA CONVERTER	1
PP025520-S	UTILITY SPARE	Inventory	ROSEMOUNT PRESSURE TRANSMITTER	1
PP025530-S	UTILITY SPARE	Inventory	CHEMILUMINESCENCE NOX ANALYZER	3
PP025540-S	UTILITY SPARE	Inventory	GAS FILTER CORRELATION CO2 ANALYZER	1
PP025550-S	UTILITY SPARE	Inventory	MAGNETROL MODULELEVEL	1
PP025560-S	UTILITY SPARE	Inventory	STACK PROBE CONTROLLER	1
PP025570-S	UTILITY SPARE	Inventory	THERMO ELECTRON COOP CO2 ANALYZER	5
PP025580-S	UTILITY SPARE	Inventory	YOKOGAWA ZIRCONIA O2 CELL KIT	1
PP025590-S	UTILITY SPARE	Inventory	ANDERSON GREENWOOD VALVE MANIFOLD	2
PP025600-S	UTILITY SPARE	Inventory	ERIEZ DRUM MAGNET	1
PP025610-S	UTILITY SPARE	Inventory	ERIEZ DRUM MAGNET	1
PP025620-S	UTILITY SPARE	Inventory	OAT HULL SEPARATOR	2
PP025630-S	UTILITY SPARE	Inventory	3M COLD SHRINK TUBING	2
PP025640-S	UTILITY SPARE	Inventory	3M COLD SHRINK TUBING	8
PP025650-S	UTILITY SPARE	Inventory	3M COLD SHRINK TUBING	2
PP025660-S	UTILITY SPARE	Inventory	3M COLD SHRINK TUBING	2
PP025670-S	UTILITY SPARE	Inventory	ILSCO HEAT SHRINKING TUBING	1
PP025680-S	UTILITY SPARE	Inventory	FIRE EXTINGUISHER SIGNS	1
PP025690-S	UTILITY SPARE	Inventory	RED/WHITE STRIPED TAPE	2
PP025700-S	UTILITY SPARE	Inventory	RUST-OLEUM V7400 SYSTEM ENAMEL SAFETY YELLOW	1
PP025710-S	UTILITY SPARE	Inventory	GE SOLENOID OPERATING COIL	1
PP025720-S	UTILITY SPARE	Inventory	SCHRADER BELLOWS SOLENOID ASSY	1
PP025730-S	UTILITY SPARE	Inventory	SOLENOID KIT	1
PP025740-S	UTILITY SPARE	Inventory	ALKON SOLENOID VALVE	1
PP025760-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 1-WAY VALVE	3
PP025770-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 1-WAY VALVE	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP025780-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 3-WAY VALVE	2
PP025800-S	UTILITY SPARE	Inventory	ASCO 2" ALUMINUM SOLENOID VALVE	1
PP025810-S	UTILITY SPARE	Inventory	ASCO 2-WAY ENTRY SOLENOID VALVE	1
PP025820-S	UTILITY SPARE	Inventory	ASCO 3-WAY GEN SEVICE SOLENOID VALVE	1
PP025830-S	UTILITY SPARE	Inventory	ASCO BIOMASS SEPARATOR PULSER	2
PP025840-S	UTILITY SPARE	Inventory	ASCO BIOMASS SEPARATOR VALVE	3
PP025850-S	UTILITY SPARE	Inventory	ASCO FEEL GAS SOLENOID NC 1/2IN 4.4CV AL	1
PP025860-S	UTILITY SPARE	Inventory	ASCO FUEL GAS SOLENOID NC 1/2IN 4.4 CUAL 6FAY3	2
PP025870-S	UTILITY SPARE	Inventory	ASCO HAT II VALVE	1
PP025880-S	UTILITY SPARE	Inventory	ASCO HIGH FLOW/HIGH PRESSURE 3-WAY SOLENOID VALVE 8300 SERIES MANUEL OPERATOR	3
PP025900-S	UTILITY SPARE	Inventory	ASCO LARGE 2-WAY SOLENOID VALVE	1
PP025910-S	UTILITY SPARE	Inventory	ASCO PILOT VALVE	1
PP025920-S	UTILITY SPARE	Inventory	ASCO REBUILD KIT	1
PP025930-S	UTILITY SPARE	Inventory	ASCO REDHAT 1/4" SOLENOID VALVE	2
PP025940-S	UTILITY SPARE	Inventory	ASCO REDHAT 120V/60 SOLENOID VALVE	1
PP025950-S	UTILITY SPARE	Inventory	ASCO REDHAT 2 WAY VALVE	1
PP025960-S	UTILITY SPARE	Inventory	ASCO REDHAT 2-WAY SOLENOID VALVE	1
PP025970-S	UTILITY SPARE	Inventory	ASCO REDHAT 3 WAY PISTON VALVE	2
PP025980-S	UTILITY SPARE	Inventory	ASCO REDHAT 3/4" NORMALLY CLOSED SOLENOID VALVE	1
PP025990-S	UTILITY SPARE	Inventory	ASCO REDHAT 3/4" NORMALLY OPEN SOLENOID VALVE	2
PP026000-S	UTILITY SPARE	Inventory	ASCO REDHAT 3/8" QUICK EXHAUST NORMALLY CLOSED SOLENOID VALVE	2
PP026010-S	UTILITY SPARE	Inventory	ASCO REDHAT 3-WAY SOLENOID VALVE	1
PP026020-S	UTILITY SPARE	Inventory	ASCO REDHAT 3-WAY VALVE SOLENOID	2
PP026030-S	UTILITY SPARE	Inventory	ASCO REDHAT 3-WAY VALVE SOLENOID	2
PP026040-S	UTILITY SPARE	Inventory	ASCO REDHAT 3-WAY VALVE SOLENOID	1
PP026050-S	UTILITY SPARE	Inventory	ASCO REDHAT DIAPHRAGM SPRING	5
PP026060-S	UTILITY SPARE	Inventory	ASCO REDHAT DUST COLLECTOR MAIN PULSE VALVE	3
PP026070-S	UTILITY SPARE	Inventory	ASCO REDHAT GAS SHUTOFF VALVE	1
PP026080-S	UTILITY SPARE	Inventory	ASCO REDHAT GASKET DIAPHRAGM	1
PP026090-S	UTILITY SPARE	Inventory	ASCO REDHAT GASKET REPLACEMENT KIT	3
PP026100-S	UTILITY SPARE	Inventory	ASCO REDHAT GEN PUR VALVE	1
PP026110-S	UTILITY SPARE	Inventory	ASCO REDHAT PISTON AND GASKET	1
PP026120-S	UTILITY SPARE	Inventory	ASCO REDHAT PISTON COVER AND SPRING	1
PP026130-S	UTILITY SPARE	Inventory	ASCO REDHAT REBUILD KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP026140-S	UTILITY SPARE	Inventory	ASCO REDHAT REBUILD KIT	3
PP026150-S	UTILITY SPARE	Inventory	ASCO REDHAT REPLACEMENT KIT	1
PP026160-S	UTILITY SPARE	Inventory	ASCO REDHAT SEPERATOR REBUILD KIT	1
PP026170-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID	2
PP026180-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 2 WAY VALVE	1
PP026190-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 2 WAY VALVE U10038	2
PP026200-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 3-WAY VALVE	1
PP026210-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID 3-WAY VALVE	2
PP026220-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID SUB ASSEMBLY	1
PP026230-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID VALVE	1
PP026240-S	UTILITY SPARE	Inventory	ASCO REDHAT SOLENOID VALVE	2
PP026250-S	UTILITY SPARE	Inventory	ASCO REDHAT SPARE PARTS KIT	3
PP026260-S	UTILITY SPARE	Inventory	ASCO REDHAT SUB ASSEMBLY SOLENOID	3
PP026270-S	UTILITY SPARE	Inventory	ASCO REDHAT VALVE COVERS	1
PP026280-S	UTILITY SPARE	Inventory	ASCO REDHAT VALVE -SAV 0.5" NPT	1
PP026290-S	UTILITY SPARE	Inventory	ASCO SINGLE SOLENOID VALVE 4/2 1/4 IN 120/110V 44U334	2
PP026300-S	UTILITY SPARE	Inventory	ASCO SINGLE SOLENOID VALVE 4/2 1/4IN 120/110V 5JC52	1
PP026310-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	19
PP026320-S	UTILITY SPARE	Inventory	ASCO SOLENOID 2/2 3/4" IN NC 120/110V 4EKZ3	2
PP026330-S	UTILITY SPARE	Inventory	ASCO SOLENOID 3/2 1/4" IN NC 120/110V 44U288	1
PP026340-S	UTILITY SPARE	Inventory	ASCO SOLENOID 3/2 3/8" IN NC 120V 3UM06	2
PP026350-S	UTILITY SPARE	Inventory	ASCO SOLENOID COIL	1
PP026360-S	UTILITY SPARE	Inventory	ASCO SOLENOID COIL	1
PP026370-S	UTILITY SPARE	Inventory	ASCO SOLENOID COIL	2
PP026380-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026390-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026400-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	34
PP026410-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026420-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026430-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026440-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026450-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026460-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026470-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP026480-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026500-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026510-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026520-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026530-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026540-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026550-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026560-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026570-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026580-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	2
PP026590-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	2
PP026600-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP026610-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	3
PP026630-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE 2/2 1/2" IN NC 120/110V BRASS 4EKR9	2
PP026640-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE 2/2 1/2" IN NC 24V BRASS 2HTY1	2
PP026650-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE 2/2 1/2" IN NC 24V BRASS 4EKR7	2
PP026660-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE 2/2 3/4" IN NC 120/110V BRASS 4EKV1	6
PP026670-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE 3/4IN NC BRASS 4NWZ7	2
PP026680-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE COIL	1
PP026690-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE COIL	1
PP026700-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE COIL	1
PP026710-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE COIL	1
PP026720-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE COIL	1
PP026730-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE KIT	1
PP026740-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE KIT	1
PP026750-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE PARTS	1
PP026760-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE REBUILD KIT 5LU54	8
PP026770-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE3/2 1/4" IN NC 120/110V 24W630	5
PP026780-S	UTILITY SPARE	Inventory	ASCO SPARE PART KIT	2
PP026790-S	UTILITY SPARE	Inventory	ASCO SPARE PART KIT	1
PP026800-S	UTILITY SPARE	Inventory	ASCO SPARE PART KIT	1
PP026810-S	UTILITY SPARE	Inventory	ASCO SPARE PARTS KIT	1
PP026820-S	UTILITY SPARE	Inventory	ASCO SPLICE BOX SOLENOID	1
PP026830-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP026840-S	UTILITY SPARE	Inventory	ASCO VALVE REPAIR KIT WITH INSTRUCTIONS	1
PP026850-S	UTILITY SPARE	Inventory	ASCO VALVE SPRING REBUILD KIT	1
PP026860-S	UTILITY SPARE	Inventory	ASHGATE AIR VALVE DIAPHRAGM / AIR CHAMBER	6
PP026870-S	UTILITY SPARE	Inventory	BAGHOUSE PULSER KIT	1
PP026880-S	UTILITY SPARE	Inventory	BOILER 11 AIR HORN MAC VALVE	1
PP026900-S	UTILITY SPARE	Inventory	BOILER 11 PULSER KITS	2
PP026910-S	UTILITY SPARE	Inventory	PARKER COIL REBUILD KIT	1
PP026920-S	UTILITY SPARE	Inventory	GALTEK PFA SOLENOID VALVE	1
PP026930-S	UTILITY SPARE	Inventory	PARKER SOLENOID VALVE GASKET	1
PP026940-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM KIT	16
PP026950-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM KIT	6
PP026960-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM KIT	9
PP026970-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM KIT	3
PP026980-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM KIT	4
PP026990-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM VALVE	1
PP027000-S	UTILITY SPARE	Inventory	GOYEN DIAPHRAGM VALVE	4
PP027010-S	UTILITY SPARE	Inventory	GOYEN PULSER SOLENOID VALVE COIL	4
PP027020-S	UTILITY SPARE	Inventory	GOYEN PULSER VALVE ENCLOSURE GASKET	6
PP027030-S	UTILITY SPARE	Inventory	GOYEN REPLACEMENT SOLENOID KIT	6
PP027040-S	UTILITY SPARE	Inventory	GOYEN SHOCKWAVE DIAPHRAGM	12
PP027050-S	UTILITY SPARE	Inventory	GOYEN SOLENOID VALVE	1
PP027060-S	UTILITY SPARE	Inventory	KEYTRONICS BOILER 11 SA FAN	1
PP027070-S	UTILITY SPARE	Inventory	MAC AIR HORN VALVE	1
PP027080-S	UTILITY SPARE	Inventory	MAC AIR HORN VALVE	2
PP027090-S	UTILITY SPARE	Inventory	MAC AIR SOLENOID	4
PP027110-S	UTILITY SPARE	Inventory	MAC FLOW CONTROL VALVE	2
PP027120-S	UTILITY SPARE	Inventory	MAC FLUID SOLENOID TERMINAL	5
PP027130-S	UTILITY SPARE	Inventory	MAC AIR HORN VALVE	3
PP027140-S	UTILITY SPARE	Inventory	MAC SOLENOID VALVE	2
PP027150-S	UTILITY SPARE	Inventory	MAC SOLENOID VALVE STACK	1
PP027160-S	UTILITY SPARE	Inventory	MAC VALVE CONTROL SENSOR	1
PP027170-S	UTILITY SPARE	Inventory	MAC VALVE CONTROL SENSOR	3
PP027190-S	UTILITY SPARE	Inventory	MAC VALVE PILOT	6
PP027200-S	UTILITY SPARE	Inventory	MAC VALVE PILOT BLOCK	5

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP027220-S	UTILITY SPARE	Inventory	MAC VALVES 45 SERIES 4 WAY POPPET VALVE	2
PP027230-S	UTILITY SPARE	Inventory	MAC VALVES 45 SERIES 4 WAY POPPET VALVE	1
PP027240-S	UTILITY SPARE	Inventory	MAC VALVES 6313D HARTIFEL AUTOMATION	20
PP027250-S	UTILITY SPARE	Inventory	MAC VALVES BAGHOUSE INLET/OUTLET/AIR FCV DAMPER	19
PP027260-S	UTILITY SPARE	Inventory	MAC VALVES CTL SOLENOID	2
PP027270-S	UTILITY SPARE	Inventory	MECAIR THREADED REVERSE PULSE JET DIAPHRAGM VALVE	2
PP027280-S	UTILITY SPARE	Inventory	MISC MAC VALVE PARTS	1
PP027290-S	UTILITY SPARE	Inventory	NORGREN SOLENOID POPPET VALVE	1
PP027300-S	UTILITY SPARE	Inventory	NORGREN SOLENOID POPPET VALVE	3
PP027310-S	UTILITY SPARE	Inventory	PARKER 1" BUNA-N ROD GLAND CARTRIDGE KIT	1
PP027320-S	UTILITY SPARE	Inventory	PARKER 2&3 POSITION VALVE BODY REPAIR KIT	2
PP027330-S	UTILITY SPARE	Inventory	PARKER 2-POSITION 4-WAY TV ISO GATE VALVE	3
PP027340-S	UTILITY SPARE	Inventory	PARKER 2-POSITION BODY SERVICE KIT, 4-WAY	2
PP027350-S	UTILITY SPARE	Inventory	PARKER 2-WAY SOLENOID VALVE	1
PP027360-S	UTILITY SPARE	Inventory	PARKER 3-POSITION PRESSURE CENTER BODY SERVICE KIT	1
PP027370-S	UTILITY SPARE	Inventory	PARKER 3-WAY 2-POS SOLENOID VALVE (1/4")	1
PP027380-S	UTILITY SPARE	Inventory	PARKER 4 WAY 2 POSITION VALVE	1
PP027390-S	UTILITY SPARE	Inventory	PARKER 4-WAY DUAL SOLENOID VALVE	2
PP027400-S	UTILITY SPARE	Inventory	PARKER BOILER 10 BOTTOM ASH DOOR SERVICE KIT	4
PP027410-S	UTILITY SPARE	Inventory	PARKER CYCLONE DIRECT ACTING SOLENOID VALVE , REBUILDS FOR KNIFE GATES	2
PP027420-S	UTILITY SPARE	Inventory	PARKER GGB BODY ASSEMBLY KIT	2
PP027430-S	UTILITY SPARE	Inventory	PARKER PILOT SOLENOID VALVE	1
PP027440-S	UTILITY SPARE	Inventory	PARKER PISTON KIT	1
PP027450-S	UTILITY SPARE	Inventory	PARKER PISTON RING KIT	2
PP027460-S	UTILITY SPARE	Inventory	PARKER SOLENOID REBUILD KITS	1
PP027470-S	UTILITY SPARE	Inventory	PARKER STATION SEAL AIR	2
PP027480-S	UTILITY SPARE	Inventory	PARKER VALVE KIT	2
PP027490-S	UTILITY SPARE	Inventory	PETER PAUL MINI SOLENOID VALVE	1
PP027500-S	UTILITY SPARE	Inventory	SEAL KIT	1
PP027510-S	UTILITY SPARE	Inventory	SMC BASE MOUNT SOLENOID VALVES	3
PP027520-S	UTILITY SPARE	Inventory	TURBO DIAPHRAGM VALVE W/ SOLENOID VALVE	1
PP027530-S	UTILITY SPARE	Inventory	UNLABELED 6 PRONG SOLENOID BOX BLACK	1
PP027540-S	UTILITY SPARE	Inventory	VALBIA SOLENOID VALVE	2
PP027550-S	UTILITY SPARE	Inventory	VICKERS (EATON HYDRAULICS, INC.) DIRECTIONAL VALVE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP027560-S	UTILITY SPARE	Inventory	PARKER SOLENOID COIL	5
PP027570-S	UTILITY SPARE	Inventory	ASCO SOLENOID VALVE	1
PP027580-S	UTILITY SPARE	Inventory	MAC BLR 11 BIOMASS BLOWER	1
PP027590-S	UTILITY SPARE	Inventory	MAC ROTARY AIRLOCK	1
PP027600-S	UTILITY SPARE	Inventory	MARTIN WALL MOUNT BRACKET	3
PP027610-S	UTILITY SPARE	Inventory	ROSS SOLENOID VALVE	7
PP027620-S	UTILITY SPARE	Inventory	DIAMOND POWER SOOT BLOWER TIMING GEAR	3
PP027630-S	UTILITY SPARE	Inventory	DIAMOND POWER 2 3/4" STUD	24
PP027640-S	UTILITY SPARE	Inventory	DIAMOND POWER 3 1/4" STUD	24
PP027650-S	UTILITY SPARE	Inventory	DIAMOND POWER 5 RING PACKING SET	1
PP027660-S	UTILITY SPARE	Inventory	DIAMOND POWER 6 1/2" STUD	17
PP027670-S	UTILITY SPARE	Inventory	DIAMOND POWER AIR VENT	2
PP027680-S	UTILITY SPARE	Inventory	DIAMOND POWER ASH COUPLING GASKET	12
PP027690-S	UTILITY SPARE	Inventory	DIAMOND POWER BOILER 10 RETRACTABLE SOOT BLOWER TRIGGER	1
PP027700-S	UTILITY SPARE	Inventory	DIAMOND POWER BOILER 11 RECTRACTABLE HELIX PARTS	1
PP027710-S	UTILITY SPARE	Inventory	DIAMOND POWER BOILER 11 RECTRACTABLE PROGRESSIVE HELIX	1
PP027720-S	UTILITY SPARE	Inventory	DIAMOND POWER BOILER 11 RECTRACTABLE SOOT BLOWER PARTS	1
PP027730-S	UTILITY SPARE	Inventory	DIAMOND POWER BOILER 11 RETRACTABLE POPPET VALVE	1
PP027740-S	UTILITY SPARE	Inventory	DIAMOND POWER BOLT TEE	6
PP027750-S	UTILITY SPARE	Inventory	DIAMOND POWER BRACKET STUD	2
PP027760-S	UTILITY SPARE	Inventory	DIAMOND POWER BUSHING, PACKING	2
PP027770-S	UTILITY SPARE	Inventory	DIAMOND POWER CHAIN ROLLER	2
PP027780-S	UTILITY SPARE	Inventory	DIAMOND POWER COTTER PIN	1
PP027790-S	UTILITY SPARE	Inventory	DIAMOND POWER CYLINDER REPAIR KIT "E VALVE"	4
PP027800-S	UTILITY SPARE	Inventory	DIAMOND POWER ELECTRODE FLANGED PLUG	2
PP027810-S	UTILITY SPARE	Inventory	DIAMOND POWER ELEMENT COUPLING	2
PP027820-S	UTILITY SPARE	Inventory	DIAMOND POWER FEED TUBE GASKET	1
PP027830-S	UTILITY SPARE	Inventory	DIAMOND POWER FEED TUBE GASKET	1
PP027840-S	UTILITY SPARE	Inventory	DIAMOND POWER FEED TUBE KEY	2
PP027850-S	UTILITY SPARE	Inventory	DIAMOND POWER GASKET	3
PP027860-S	UTILITY SPARE	Inventory	DIAMOND POWER GASKET	4
PP027870-S	UTILITY SPARE	Inventory	DIAMOND POWER GASKET KIT	2
PP027880-S	UTILITY SPARE	Inventory	DIAMOND POWER GASKET, FEED TUBE	1
PP027890-S	UTILITY SPARE	Inventory	DIAMOND POWER GRAPHITE FOIL	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP027900-S	UTILITY SPARE	Inventory	DIAMOND POWER HEX JAM NUT	4
PP027910-S	UTILITY SPARE	Inventory	DIAMOND POWER HEX NUT	1
PP027920-S	UTILITY SPARE	Inventory	DIAMOND POWER HEX NUT	2
PP027930-S	UTILITY SPARE	Inventory	DIAMOND POWER IMPACT ELBOW BODY	1
PP027940-S	UTILITY SPARE	Inventory	DIAMOND POWER LANCE FLANGE GASKET	4
PP027950-S	UTILITY SPARE	Inventory	DIAMOND POWER LOCK WASHER	1
PP027960-S	UTILITY SPARE	Inventory	DIAMOND POWER LOCK WASHER	4
PP027970-S	UTILITY SPARE	Inventory	DIAMOND POWER LOCKING KEY	4
PP027980-S	UTILITY SPARE	Inventory	DIAMOND POWER LOWER SPACER	2
PP027990-S	UTILITY SPARE	Inventory	DIAMOND POWER LOWER WASHER	4
PP028000-S	UTILITY SPARE	Inventory	DIAMOND POWER LUBRICATING FITTING	4
PP028010-S	UTILITY SPARE	Inventory	DIAMOND POWER PIN GROOVE	2
PP028020-S	UTILITY SPARE	Inventory	DIAMOND POWER PINS	11
PP028030-S	UTILITY SPARE	Inventory	DIAMOND POWER PLATE COVER CARRIAGE	2
PP028040-S	UTILITY SPARE	Inventory	DIAMOND POWER POPPET VALVE	1
PP028050-S	UTILITY SPARE	Inventory	DIAMOND POWER POPPET VALVE PARTS	2
PP028060-S	UTILITY SPARE	Inventory	DIAMOND POWER POPPET VALVE ROTARY SOOT BLOWER	1
PP028070-S	UTILITY SPARE	Inventory	DIAMOND POWER RING	2
PP028080-S	UTILITY SPARE	Inventory	DIAMOND POWER RING	3
PP028090-S	UTILITY SPARE	Inventory	DIAMOND POWER RING	24
PP028100-S	UTILITY SPARE	Inventory	DIAMOND POWER ROLLER ASSEMBLY	2
PP028110-S	UTILITY SPARE	Inventory	DIAMOND POWER ROLLER ASSEMBLY FRONT	2
PP028120-S	UTILITY SPARE	Inventory	DIAMOND POWER ROLLER SPACER	4
PP028130-S	UTILITY SPARE	Inventory	DIAMOND POWER SCREW CAP HEX	2
PP028140-S	UTILITY SPARE	Inventory	DIAMOND POWER SOC SCREW CAP	4
PP028150-S	UTILITY SPARE	Inventory	DIAMOND POWER SOOT BLOWER ROLLER	4
PP028160-S	UTILITY SPARE	Inventory	DIAMOND POWER SOOT BLOWER TOOLS	1
PP028170-S	UTILITY SPARE	Inventory	DIAMOND POWER STEEL SLEEVE	7
PP028180-S	UTILITY SPARE	Inventory	DIAMOND POWER STEM VALVE	1
PP028190-S	UTILITY SPARE	Inventory	DIAMOND POWER SWIVEL TUBE PACKING	5
PP028200-S	UTILITY SPARE	Inventory	DIAMOND POWER TOOL ASSEMBLY DEPRESSING VALVE	2
PP028210-S	UTILITY SPARE	Inventory	DIAMOND POWER TRIP BAR LOCKWASHER	1
PP028220-S	UTILITY SPARE	Inventory	DIAMOND POWER TRIP PIN	1
PP028230-S	UTILITY SPARE	Inventory	DIAMOND POWER US STANDARD WASHER	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP028240-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE	6
PP028250-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE ASSEMBLY	2
PP028260-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE SPRING RETAINER	5
PP028270-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE STEM PACKING	6
PP028280-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE YOKE	5
PP028290-S	UTILITY SPARE	Inventory	DIAMOND POWER VALVE YOKE PIN	1
PP028300-S	UTILITY SPARE	Inventory	DIAMOND POWER WRENCH VALVE	2
PP028310-S	UTILITY SPARE	Inventory	SEPSCO SOOT BLOWER PACKING SET	6
PP028320-S	UTILITY SPARE	Inventory	DIAMOND POWER POPPET VALVE ASSY 600#	2
PP028330-S	UTILITY SPARE	Inventory	DIAMOND POWER SOOT BLOWER CONNECTOR	7
PP028340-S	UTILITY SPARE	Inventory	DIAMOND POWER SOOT BLOWER VALVE	1
PP028350-S	UTILITY SPARE	Inventory	GRANULAR CLAY ABSORBENT	2
PP028360-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 595 AUXILIARY CONTACT	5
PP028370-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AUXILIARY CONTACT	2
PP028380-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AUXILIARY CONTACT	2
PP028390-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY AUXILIARY CONTACT	1
PP028400-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY NEMA SIZE 1 STARTER	1
PP028410-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY STARTER COIL	6
PP028420-S	UTILITY SPARE	Inventory	CUTLER-HAMMER AUX MODULE	4
PP028430-S	UTILITY SPARE	Inventory	EATON TYPE-J AUXILIARY MOD	2
PP028440-S	UTILITY SPARE	Inventory	FURNAS STARTER COIL	2
PP028450-S	UTILITY SPARE	Inventory	GE AUXILIARY CONTACT	8
PP028460-S	UTILITY SPARE	Inventory	GE MAGNETIC STARTER	1
PP028470-S	UTILITY SPARE	Inventory	GE MAGNETIC STARTER	1
PP028480-S	UTILITY SPARE	Inventory	GE STARTER	30
PP028490-S	UTILITY SPARE	Inventory	MOTOR STARTING SWITCH	1
PP028500-S	UTILITY SPARE	Inventory	N.C. AUXILIARY CONTACT	4
PP028510-S	UTILITY SPARE	Inventory	SQUARE D 1 N.O. ELECTRIC INTERLOCK	4
PP028520-S	UTILITY SPARE	Inventory	SQUARE D 3 POLE CONTACT KIT	1
PP028530-S	UTILITY SPARE	Inventory	SQUARE D 3-POLE CONTACT KIT	3
PP028540-S	UTILITY SPARE	Inventory	SQUARE D 3-POLE CONTACT KIT	1
PP028550-S	UTILITY SPARE	Inventory	SQUARE D 3-POLE CONTACT KIT	1
PP028560-S	UTILITY SPARE	Inventory	SQUARE D 3-POLE CONTACT KIT	1
PP028570-S	UTILITY SPARE	Inventory	SQUARE D 3-POLE CONTACT KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP028580-S	UTILITY SPARE	Inventory	SQUARE D ELECTRICAL INTERLOCK	1
PP028590-S	UTILITY SPARE	Inventory	SQUARE D EXTERNAL STARTER RESET	7
PP028600-S	UTILITY SPARE	Inventory	SQUARE D FHP MANUAL STARTER	1
PP028610-S	UTILITY SPARE	Inventory	SQUARE D MAGNETIC COIL	2
PP028620-S	UTILITY SPARE	Inventory	SQUARE D MAGNETIC MOTOR STARTER	1
PP028630-S	UTILITY SPARE	Inventory	SQUARE D MOTOR STARTER COIL	2
PP028640-S	UTILITY SPARE	Inventory	SQUARE D N.C. ELECTRICAL INTERLOCK	6
PP028650-S	UTILITY SPARE	Inventory	SQUARE D NEMA SIZE 00 STARTER	1
PP028660-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY NEMA SIZE 4 STARTER	1
PP028670-S	UTILITY SPARE	Inventory	CUTLER-HAMMER NEMA SIZE 2 STARTER	1
PP028680-S	UTILITY SPARE	Inventory	SQUARE D NEMA SIZE 1 STARTER	1
PP028690-S	UTILITY SPARE	Inventory	SQUARE D NEMA SIZE 2 STARTER	5
PP028700-S	UTILITY SPARE	Inventory	SQUARE D NEMA SIZE 3 STARTER	1
PP028710-S	UTILITY SPARE	Inventory	SQUARE D NEMA SIZE 4 STARTER	2
PP028720-S	UTILITY SPARE	Inventory	TELEMECHANIQUE ALTISTART SOFT STARTER	1
PP028730-S	UTILITY SPARE	Inventory	WESTINGHOUSE NEMA SIZE 1 MOTOR CONTROL	4
PP028740-S	UTILITY SPARE	Inventory	WESTINGHOUSE NEMA SIZE 1 STARTER	1
PP028750-S	UTILITY SPARE	Inventory	WESTINGHOUSE NEMA SIZE 1 STARTER	1
PP028760-S	UTILITY SPARE	Inventory	WESTINGHOUSE NEMA SIZE 3 STARTER 90A	1
PP028770-S	UTILITY SPARE	Inventory	ARMSTRONG INTERNATIONAL PCA KIT	1
PP028780-S	UTILITY SPARE	Inventory	ARMSTRONG INTERNATIONAL PCA KIT	1
PP028790-S	UTILITY SPARE	Inventory	ARMSTRONG MACHINING PARTS	1
PP028800-S	UTILITY SPARE	Inventory	ARMSTRONG PUMP TRAP	1
PP028810-S	UTILITY SPARE	Inventory	ARMSTRONG STEAM TRAP MODEL 2011	4
PP028820-S	UTILITY SPARE	Inventory	ARMSTRONG STEAM TRAP MODEL 315	1
PP028830-S	UTILITY SPARE	Inventory	HANKISON KIT TRAP	3
PP028850-S	UTILITY SPARE	Inventory	HANKISON TRIP-L-TRAP 506	2
PP028860-S	UTILITY SPARE	Inventory	HANKISON TRIP-L-TRAP REPAIR KIT	2
PP028870-S	UTILITY SPARE	Inventory	SPIRAX SARCO 3/4" STEAM TRAP	5
PP028880-S	UTILITY SPARE	Inventory	SPIRAX SARCO RO HEX TRAP FLOAT KIT	1
PP028890-S	UTILITY SPARE	Inventory	STERLCO LONG NIPPLE THERMO TRAP	1
PP028900-S	UTILITY SPARE	Inventory	STEAM TRAP	2
PP028910-S	UTILITY SPARE	Inventory	STEAM TRAP	2
PP028920-S	UTILITY SPARE	Inventory	CLOSED LOOP C/W STRAINER PARTS	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP028930-S	UTILITY SPARE	Inventory	SPEARS MFG MESH STRAINER	1
PP028940-S	UTILITY SPARE	Inventory	SPEARS Y-STRAINER SOCKET P20 MESH	1
PP028950-S	UTILITY SPARE	Inventory	4" Y TYPE STRAINER	2
PP028960-S	UTILITY SPARE	Inventory	LIFTMASTER GARAGE DOOR OPENER BUTTON	1
PP028970-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 30MM MOMENTARY PUSH BUTTON	2
PP028980-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 30MM PUSH-PULL DEVICE 800T	1
PP028990-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTACTOR	4
PP029000-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTACT BLOCK	4
PP029010-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY BUTTON	4
PP029020-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CHROME PUSH BUTTON GUARD	8
PP029030-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTACT BLOCK	3
PP029040-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTACT BLOCK HARDWARE	1
PP029050-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTACTOR	3
PP029060-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL CONTACTOR, REVERSING	1
PP029070-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ELECTROMECHANICAL TEMPERATURE CONTROL	2
PP029080-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ENCLOSURE	1
PP029090-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY GREEN PUSH BUTTON MUSHROOM HEAD CAP	2
PP029100-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY HEAVY DUTY PUSH BUTTON	2
PP029110-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ILLUMINATED PUSH BUTTON	1
PP029120-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ILLUMINATED PUSH BUTTON	1
PP029130-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ILLUMINATED PUSH-PULL SWITCH	1
PP029140-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY ILLUMINATED SELECTOR SWITCH	1
PP029150-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY LEGEND PLATE "HAND-OFF-AUTO"	2
PP029160-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY LEGEND PLATE "RUN"	2
PP029170-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY LEGEND PLATE "STOP"	1
PP029180-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY LIMIT SWITCH	2
PP029190-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PUSH BUTTON	1
PP029200-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PUSH BUTTON	11
PP029210-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PUSH BUTTON	2
PP029220-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PUSH BUTTON	2
PP029230-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	2
PP029240-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	2
PP029250-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	1
PP029260-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	12

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP029270-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	1
PP029280-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH	5
PP029290-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELECTOR SWITCH BASE	1
PP029300-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SELF CONTAINED CYLINDRICAL PROXIMITY SWITCH	1
PP029310-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SHALLOW CONTACT BLOCK	16
PP029320-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY START/STOP PUSH BUTTON	1
PP029330-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY YELLOW PUSH BUTTON GUARD	4
PP029340-S	UTILITY SPARE	Inventory	ARROWHART SPECIALTY SWITCH	2
PP029350-S	UTILITY SPARE	Inventory	ASCO PRESSURE SWITCH	3
PP029360-S	UTILITY SPARE	Inventory	ASCO SWITCH COMMUNICATOR INTERRUPTOR	1
PP029370-S	UTILITY SPARE	Inventory	ASCO TRI POINT PRESSURE SWITCH	2
PP029380-S	UTILITY SPARE	Inventory	ASH RECIEVER DWYER SERIES 3000 PHOTOHELIC PRESSURE GAUGE	2
PP029390-S	UTILITY SPARE	Inventory	ASHCROFT MERCURY SWITCH	1
PP029400-S	UTILITY SPARE	Inventory	BARKSDALE PRESSURE SWITCH	1
PP029410-S	UTILITY SPARE	Inventory	BARKSDALE PRESSURE SWITCH TRIP AMPLIFIER	1
PP029420-S	UTILITY SPARE	Inventory	CHEMTEC FLOW SWITCH	1
PP029430-S	UTILITY SPARE	Inventory	CLEVELAND CONTROLS AIR PRESSURE SWITCH	1
PP029440-S	UTILITY SPARE	Inventory	CLEVELAND CONTROLS AIR PRESSURE SWITCH	1
PP029450-S	UTILITY SPARE	Inventory	CONTROL CONCEPTS ZERO SPEED SWITCH	1
PP029460-S	UTILITY SPARE	Inventory	CRYDOM TEMP CONTROL	1
PP029470-S	UTILITY SPARE	Inventory	CUTLER-HAMMER SWITCH 600V	1
PP029480-S	UTILITY SPARE	Inventory	CUTLER-HAMMER SELECTOR SWITCH	1
PP029490-S	UTILITY SPARE	Inventory	DAYTON THERMOSTAT	1
PP029500-S	UTILITY SPARE	Inventory	DAYTON THERMOSTAT	2
PP029510-S	UTILITY SPARE	Inventory	DIGITRACE THERMOSTAT	2
PP029520-S	UTILITY SPARE	Inventory	DWYER A3000 PHOTOHELIC SWITCH/GAUGE	1
PP029530-S	UTILITY SPARE	Inventory	DWYER PRESSURE SWITCH	1
PP029540-S	UTILITY SPARE	Inventory	EATON HEAVY DUTY SAFETY SWITCH	1
PP029550-S	UTILITY SPARE	Inventory	EATON NON REVERSING CONTACTOR	1
PP029560-S	UTILITY SPARE	Inventory	EFECTOR CAPACITIVE PROXIMITY SWITCH	1
PP029570-S	UTILITY SPARE	Inventory	GE MICRO SWITCH	1
PP029580-S	UTILITY SPARE	Inventory	GEMS FLOW SWITCH	1
PP029590-S	UTILITY SPARE	Inventory	GE MICRO SWITCH	1
PP029600-S	UTILITY SPARE	Inventory	GRAINGER PUSH BUTTON	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP029610-S	UTILITY SPARE	Inventory	GW EAGLE SIGNAL CONTACTOR	1
PP029620-S	UTILITY SPARE	Inventory	HONEYWELL 0-15PSI PRESSURETROL CONTROLLER	1
PP029630-S	UTILITY SPARE	Inventory	HONEYWELL 0-300PSI PRESSURETROL CONTROLLER	1
PP029640-S	UTILITY SPARE	Inventory	HONEYWELL FAN COIL THERMOSTAT	5
PP029650-S	UTILITY SPARE	Inventory	HONEYWELL GAS PRESSURE SWITCH	1
PP029660-S	UTILITY SPARE	Inventory	HONEYWELL HEAVY DUTY HEAT/COOL THERMOSTAT	1
PP029670-S	UTILITY SPARE	Inventory	HONEYWELL LEVER ARM	2
PP029680-S	UTILITY SPARE	Inventory	HONEYWELL LEVER ARM	1
PP029690-S	UTILITY SPARE	Inventory	HONEYWELL LIGHT DUTY LINE VOLTAGE HEAT-COOL THERMOSTAT	1
PP029700-S	UTILITY SPARE	Inventory	HONEYWELL MEDIUM DUTY LINE VOLTAGE HEAT-COOL THERMOSTAT	1
PP029710-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	1
PP029720-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	11
PP029730-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	1
PP029740-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	1
PP029750-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	5
PP029760-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	2
PP029770-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	2
PP029780-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	5
PP029790-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	4
PP029800-S	UTILITY SPARE	Inventory	HONEYWELL MICRO SWITCH	5
PP029810-S	UTILITY SPARE	Inventory	IWAKI FLOWMETER PRESSURE SWITCH	9
PP029820-S	UTILITY SPARE	Inventory	JOHNSON CONTROLS HOT WATER STRAP ON CONTROL	6
PP029830-S	UTILITY SPARE	Inventory	JOHNSON CONTROLS SURFACE MOUNTED TEMP CONTROL	7
PP029840-S	UTILITY SPARE	Inventory	KEDU SWITCH	2
PP029850-S	UTILITY SPARE	Inventory	KEYED SELECTOR SWITCH	2
PP029860-S	UTILITY SPARE	Inventory	KILLARK SPEED SWITCH	4
PP029870-S	UTILITY SPARE	Inventory	LIMESTONE SYSTEM ELECTRONICS	1
PP029880-S	UTILITY SPARE	Inventory	LIMIT SWITCH OPEN	1
PP029890-S	UTILITY SPARE	Inventory	MAGNETROL LEVEL SWITCH	1
PP029900-S	UTILITY SPARE	Inventory	MAGNETROL SWITCH/VALVE	1
PP029910-S	UTILITY SPARE	Inventory	MATERIAL CONTROL CONVEYOR SAFETY STOP SWITCH	1
PP029920-S	UTILITY SPARE	Inventory	MERCOID CONTROL FACE PLATE	1
PP029930-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	3
PP029940-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP029950-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	1
PP029960-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	1
PP029970-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	1
PP029980-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	4
PP029990-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	1
PP030000-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	2
PP030010-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH	1
PP030020-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH 0-30" H2O	1
PP030030-S	UTILITY SPARE	Inventory	MERCOID PRESSURE SWITCH 50-1000PSI	1
PP030040-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030050-S	UTILITY SPARE	Inventory	MICRO SWITCH	3
PP030060-S	UTILITY SPARE	Inventory	MICRO SWITCH	4
PP030070-S	UTILITY SPARE	Inventory	MICRO SWITCH HEAVY DUTY LIMIT SWITCH	1
PP030080-S	UTILITY SPARE	Inventory	MICRO SWITCH HEAVY DUTY LIMIT SWITCH	2
PP030090-S	UTILITY SPARE	Inventory	MINI PRESSURE SWITCH	2
PP030100-S	UTILITY SPARE	Inventory	NAMCO LIMIT SWITCH	4
PP030120-S	UTILITY SPARE	Inventory	NAMCO LIMIT SWITCH	2
PP030130-S	UTILITY SPARE	Inventory	NAMCO SNAP-LOCK LIMIT SWITCH	1
PP030140-S	UTILITY SPARE	Inventory	NASON PRESSURE SWITCH	4
PP030150-S	UTILITY SPARE	Inventory	NKK TOGGLE SWITCH	3
PP030160-S	UTILITY SPARE	Inventory	OIL PRESSURE SWITCH TG6	4
PP030170-S	UTILITY SPARE	Inventory	OMRON MICRO SWITCH	1
PP030180-S	UTILITY SPARE	Inventory	OMRON SWITCH COVER	7
PP030190-S	UTILITY SPARE	Inventory	PEPPERL + FUCHS SWITCH AMPLIFIER	1
PP030200-S	UTILITY SPARE	Inventory	POWERX DUAL TRANSISTOR FOR SWITCHING APPLICATIONS BRACKET MODULE	4
PP030210-S	UTILITY SPARE	Inventory	PRESSURE SWITCH TG1	2
PP030220-S	UTILITY SPARE	Inventory	PUSH BUTTON	6
PP030230-S	UTILITY SPARE	Inventory	R.B DENISON LIMIT SWITCH	1
PP030240-S	UTILITY SPARE	Inventory	ROBERTSHAW MICRO SWITCH	1
PP030250-S	UTILITY SPARE	Inventory	S.J. ELECTRO SYSTEMS FLOAT SWITCH CABLE WEIGHT	1
PP030260-S	UTILITY SPARE	Inventory	SALINA VORTEX LOGICAL SWITCH	3
PP030270-S	UTILITY SPARE	Inventory	SOR INSTRUMENT AIR PRESSURE SWITCH	1
PP030280-S	UTILITY SPARE	Inventory	SOR INSTRUMENT AIR PRESSURE SWITCH	2
PP030290-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP030300-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1
PP030310-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1
PP030320-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	2
PP030330-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1
PP030340-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1
PP030350-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	1
PP030360-S	UTILITY SPARE	Inventory	SOR TEMPERATURE SWITCH	2
PP030370-S	UTILITY SPARE	Inventory	SQUARE D AUTO SELECTOR SWITCH KIT	1
PP030380-S	UTILITY SPARE	Inventory	SQUARE D BUTTON	2
PP030390-S	UTILITY SPARE	Inventory	SQUARE D BUTTON	1
PP030400-S	UTILITY SPARE	Inventory	SQUARE D CONNECTOR	6
PP030410-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	11
PP030420-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	10
PP030430-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	1
PP030440-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	7
PP030450-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	10
PP030460-S	UTILITY SPARE	Inventory	SQUARE D CONTACT BLOCK	2
PP030470-S	UTILITY SPARE	Inventory	SQUARE D CONTROL STATION KEYED SELECTOR SWITCH	1
PP030480-S	UTILITY SPARE	Inventory	SQUARE D HEAVY DUTY SAFETY SWITCH	3
PP030490-S	UTILITY SPARE	Inventory	SQUARE D KEYED SELECTOR SWITCH	11
PP030500-S	UTILITY SPARE	Inventory	SQUARE D LEGEND PLATE "HAND-OFF-AUTO"	5
PP030510-S	UTILITY SPARE	Inventory	SQUARE D LEVEL CONTROL FLOAT SWITCH	1
PP030520-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH	5
PP030530-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH	4
PP030540-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH	2
PP030550-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH	2
PP030560-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH	3
PP030570-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH BODY	3
PP030580-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH BODY	2
PP030590-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH HEAD	4
PP030600-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH LEVER ARM	5
PP030610-S	UTILITY SPARE	Inventory	SQUARE D LIMIT SWITCH LEVER ARM	14
PP030620-S	UTILITY SPARE	Inventory	SQUARE D MECHANICAL ALTERNATOR	1
PP030630-S	UTILITY SPARE	Inventory	SQUARE D MICRO SWITCH	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP030640-S	UTILITY SPARE	Inventory	SQUARE D MOMENTARY SELECTOR SWITCH	5
PP030650-S	UTILITY SPARE	Inventory	SQUARE D OPEN TANK FLOAT SWITCH	1
PP030660-S	UTILITY SPARE	Inventory	SQUARE D POSITION SWITCH	2
PP030670-S	UTILITY SPARE	Inventory	SQUARE D POSITION SWITCH	1
PP030680-S	UTILITY SPARE	Inventory	SQUARE D POSITION SWITCH TURRET HEAD	1
PP030690-S	UTILITY SPARE	Inventory	SQUARE D PUSH BUTTON	1
PP030700-S	UTILITY SPARE	Inventory	SQUARE D PUSH BUTTON	1
PP030710-S	UTILITY SPARE	Inventory	SQUARE D REVERSE BUTTON	1
PP030720-S	UTILITY SPARE	Inventory	SQUARE D SELECTOR SWITCH	16
PP030730-S	UTILITY SPARE	Inventory	SQUARE D SNAP SWITCH	3
PP030740-S	UTILITY SPARE	Inventory	SQUARE D SWITCH	1
PP030750-S	UTILITY SPARE	Inventory	SQUARE D SWITCH	2
PP030760-S	UTILITY SPARE	Inventory	SQUARE D UNIT ENCLOSURE	3
PP030770-S	UTILITY SPARE	Inventory	STELPRO WALL THERMOSTAT	1
PP030780-S	UTILITY SPARE	Inventory	SUPERIOR INTERLOCK 2-PIECE KEYED INTERLOCK	1
PP030790-S	UTILITY SPARE	Inventory	SUPERIOR INTERLOCK KEY LOCK SWITCHES	1
PP030800-S	UTILITY SPARE	Inventory	SWITCH BUTTON	2
PP030810-S	UTILITY SPARE	Inventory	SWITCH PARTS	1
PP030820-S	UTILITY SPARE	Inventory	TELEMECANIQUE LIMIT SWITCH	4
PP030830-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030840-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030850-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030860-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030870-S	UTILITY SPARE	Inventory	MICRO SWITCH	2
PP030880-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030890-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030900-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030910-S	UTILITY SPARE	Inventory	MICRO SWITCH	2
PP030920-S	UTILITY SPARE	Inventory	MICRO SWITCH	1
PP030930-S	UTILITY SPARE	Inventory	MICRO SWITCH	2
PP030940-S	UTILITY SPARE	Inventory	MICRO SWITCH	4
PP030950-S	UTILITY SPARE	Inventory	WATLOW EZ- ZONE CEMS TEMPERATURE CONTROLLER	1
PP030960-S	UTILITY SPARE	Inventory	WESTINGHOUSE PUSH BUTTON SWITCH	1
PP030970-S	UTILITY SPARE	Inventory	WESTINGHOUSE SELECTOR SWITCH	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP030980-S	UTILITY SPARE	Inventory	WHITE-RODGERS EXPLOSION RESISTANT THERMOSTAT FOR HEATING HEAVY DUTY LINE VOLTAGE	3
PP030990-S	UTILITY SPARE	Inventory	WHITMAN CONTROLS PRESSURE SWITCH	2
PP031000-S	UTILITY SPARE	Inventory	EATON HEAVY DUTY SAFETY SWITCH DISCONNECT 400A 600V	2
PP031010-S	UTILITY SPARE	Inventory	SQUARE D HEAVY DUTY SAFETY SWITCH	1
PP031020-S	UTILITY SPARE	Inventory	SQUARE D MOLDED CASE SWITCH 100A	1
PP031030-S	UTILITY SPARE	Inventory	SQUARE D SAFETY SWITCH	1
PP031040-S	UTILITY SPARE	Inventory	MAGNETROL LEVEL SWITCH	2
PP031050-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY END BARRIERS	106
PP031060-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY NUMBERED TABS	6
PP031070-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PLASTIC COVER	1
PP031080-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PLASTIC COVER	1
PP031090-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PLASTIC COVER	1
PP031100-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERSTRIP DISCONNECT	97
PP031110-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY POWERSTRIP DISCONNECT	2
PP031120-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK END	1
PP031130-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCKS	100
PP031140-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY 700-TBR24 RELAYS	20
PP031150-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CIRCUIT BREAKER	1
PP031160-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROLLOGIX TERMINAL BLOCK	1
PP031170-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MANUAL MOTOR CONTROL	1
PP031180-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MANUAL MOTOR CONTROL	1
PP031190-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MANUAL MOTOR CONTROL	1
PP031200-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT FUSEBREAKER	9
PP031210-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY RELAY	20
PP031220-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY REMOTE I/O LINK TERMINATOR	4
PP031230-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY STATION CONNECTOR	2
PP031240-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY STATION CONNECTOR	1
PP031250-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK	20
PP031260-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK	1
PP031270-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK	1
PP031280-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK	1
PP031290-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK	10
PP031300-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK STANDOFF BRACKET	2
PP031310-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK END ANCHOR	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP031320-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK JUMPERS	1
PP031330-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK RELAY	3
PP031340-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK RELAY	3
PP031350-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL PARTS	1
PP031360-S	UTILITY SPARE	Inventory	CUTLER-HAMMER 7 POINT TERMINAL	6
PP031370-S	UTILITY SPARE	Inventory	CUTLER-HAMMER ASSEMBLY KIT	3
PP031380-S	UTILITY SPARE	Inventory	PHOENIX CONTACT END CLAMP	22
PP031390-S	UTILITY SPARE	Inventory	PHOENIX CONTACT PLASTIC COVER	1
PP031400-S	UTILITY SPARE	Inventory	PHOENIX CONTACT PLASTIC COVER	1
PP031410-S	UTILITY SPARE	Inventory	PHOENIX CONTACT PLASTIC COVER	1
PP031420-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	1
PP031430-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	1
PP031440-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	2
PP031450-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	1
PP031460-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	3
PP031470-S	UTILITY SPARE	Inventory	PHOENIX CONTACT POWERSTRIP DISCONNECT	3
PP031480-S	UTILITY SPARE	Inventory	PHOENIX CONTACT RELAY BASE	2
PP031490-S	UTILITY SPARE	Inventory	SQUARE D POWERSTRIP DISCONNECT	1
PP031500-S	UTILITY SPARE	Inventory	SUNS 12-POLE TERMINAL STRIP	1
PP031510-S	UTILITY SPARE	Inventory	TERMINAL BLOCK	1
PP031520-S	UTILITY SPARE	Inventory	SLOAN 1" SCREWDRIVER STOP REPAIR KIT	2
PP031530-S	UTILITY SPARE	Inventory	SLOAN HANDLE REPAIR KIT	1
PP031540-S	UTILITY SPARE	Inventory	SLOAN PLASTIC ADPATER	1
PP031550-S	UTILITY SPARE	Inventory	SLOAN REPAIR PARTS TURBO FLO REPAIR KIT	1
PP031560-S	UTILITY SPARE	Inventory	SLOAN SPUD COUPLING AND FLANGE KIT	1
PP031570-S	UTILITY SPARE	Inventory	SLOAN SWEAT SOLDER KIT	3
PP031580-S	UTILITY SPARE	Inventory	SLOAN SWEAT SOLDER KIT WITH 6" CASING TUBE	1
PP031590-S	UTILITY SPARE	Inventory	SLOAN VACUUM BREAKER	4
PP031600-S	UTILITY SPARE	Inventory	SLOAN VANDAL RESISTANT STOP CAP	5
PP031610-S	UTILITY SPARE	Inventory	SLOAN WATER CLOSET FLUSHOMETER REPAIR KIT	3
PP031620-S	UTILITY SPARE	Inventory	ZURN AQUAPARTS FLUSH VALVE OPERATOR	1
PP031630-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CONTROL TRANSFORMER	1
PP031640-S	UTILITY SPARE	Inventory	CONTROL CIRCUIT TRANSFORMER	1
PP031650-S	UTILITY SPARE	Inventory	EIL CURRENT TRANSFORMER 600V	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP031660-S	UTILITY SPARE	Inventory	HEAVY DUTY INDUSTRIAL CONTROL TRANSFORMER	1
PP031670-S	UTILITY SPARE	Inventory	HPS FORTRESS TRANSFORMER	1
PP031680-S	UTILITY SPARE	Inventory	HONEYWELL CONTROL CIRCUIT TRANSFORMER	1
PP031690-S	UTILITY SPARE	Inventory	HPS FUSION GENERAL PURPOSE TRANSFORMER	1
PP031700-S	UTILITY SPARE	Inventory	JOHNSON CONTROLS VF TRANSFORMER	1
PP031710-S	UTILITY SPARE	Inventory	SOLA CONSTANT VOLTAGE TRANSFORMER	2
PP031720-S	UTILITY SPARE	Inventory	SQUARE D INDUSTRIAL CONTROL TRANSFORMER	1
PP031730-S	UTILITY SPARE	Inventory	SQUARE D SINGLE PHASE TRANSFORMER	1
PP031740-S	UTILITY SPARE	Inventory	SQUARE D TRANSFORMER	1
PP031750-S	UTILITY SPARE	Inventory	SQUARE D INDUSTRIAL CONTROL TRANSFORMER	2
PP031760-S	UTILITY SPARE	Inventory	SQUARE D INDUSTRIAL CONTROL TRANSFORMER	2
PP031770-S	UTILITY SPARE	Inventory	TRANSFORMER	1
PP031780-S	UTILITY SPARE	Inventory	TRANSFORMER	1
PP031790-S	UTILITY SPARE	Inventory	CUTLER-HAMMER DISTRIBUTION TRANSFORMER	1
PP031800-S	UTILITY SPARE	Inventory	GENERAL ELECTRIC TRANSFORMER	1
PP031810-S	UTILITY SPARE	Inventory	GENERAL ELECTRIC TRANSFORMER	1
PP031820-S	UTILITY SPARE	Inventory	HEVI-DUTY GENERAL PURPOSE TRANSFORMER	1
PP031830-S	UTILITY SPARE	Inventory	HEVI-DUTY TRANSFORMER	1
PP031840-S	UTILITY SPARE	Inventory	SQUARE D SINGLE PHASE INSULATED TRANSFORMER	1
PP031850-S	UTILITY SPARE	Inventory	WESTINGHOUSE 3 PHASE TRANSFORMER	1
PP031860-S	UTILITY SPARE	Inventory	EGS TRANSFORMER	1
PP031870-S	UTILITY SPARE	Inventory	100' CLEAR TUBING 1/4" OD 1/8" ID	1
PP031880-S	UTILITY SPARE	Inventory	AQUAPEX 1/2" TUBE	1
PP031890-S	UTILITY SPARE	Inventory	CURLED STAINLESS TUBE	1
PP031900-S	UTILITY SPARE	Inventory	IMPERIAL PROFESSIONAL TUBING TEST PLUG	10
PP031910-S	UTILITY SPARE	Inventory	IMPERIAL PROFESSIONAL TUBING TEST PLUG	10
PP031920-S	UTILITY SPARE	Inventory	IMPERIAL PROFESSIONAL TUBING TEST PLUG	50
PP031930-S	UTILITY SPARE	Inventory	KURI TEC KLEARON CLEAR TUBING 1/2" ID X 5/8" OD	1
PP031940-S	UTILITY SPARE	Inventory	NORGREN POLYETHYLENE 1/4 IN TUBE	1
PP031950-S	UTILITY SPARE	Inventory	POLYURETHANE TUBE ID: 5/32 OD: 1/4	1
PP031960-S	UTILITY SPARE	Inventory	SAINT GOBAIN VERSILON 3/4 IN TUBE	1
PP031970-S	UTILITY SPARE	Inventory	SWAGELOK VINYL TUBING 1/4 IN TUBING	1
PP031980-S	UTILITY SPARE	Inventory	SWAGELOK VINYL TUBING 1/8 IN TUBING	1
PP031990-S	UTILITY SPARE	Inventory	SWAGELOK VINYL TUBING 3/8 IN TUBING	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP032000-S	UTILITY SPARE	Inventory	COLE-PARMER PTFE TUBING	1
PP032010-S	UTILITY SPARE	Inventory	DUAL ALUMINUM TUBE SQUARE	12
PP032020-S	UTILITY SPARE	Inventory	DUAL ALUMINUM TUBE SQUARE	6
PP032030-S	UTILITY SPARE	Inventory	LANSAS 10" AR PLUG	3
PP032040-S	UTILITY SPARE	Inventory	LANSAS 10" AR PLUG	2
PP032050-S	UTILITY SPARE	Inventory	LANSAS 12" AR PLUG	2
PP032060-S	UTILITY SPARE	Inventory	LANSAS 6"-8" LONG AR PLUG	1
PP032070-S	UTILITY SPARE	Inventory	LANSAS 8" AR PLUG	7
PP032080-S	UTILITY SPARE	Inventory	LANSAS 8" AR PLUG	1
PP032090-S	UTILITY SPARE	Inventory	LANSAS DOMEHEAD	2
PP032100-S	UTILITY SPARE	Inventory	SAFESEAL TEST PLUG	4
PP032110-S	UTILITY SPARE	Inventory	SPRING COIL PIPING	2
PP032120-S	UTILITY SPARE	Inventory	1/2" TACO HEAT-GARD THERMOSTATIC VALVE - STRAIGHT	2
PP032130-S	UTILITY SPARE	Inventory	1/2" TACO HEAT-GARD THERMOSTATIC VALVE - HORIZONTAL	2
PP032140-S	UTILITY SPARE	Inventory	3/4" TACO HEAT-GARD THERMOSTATIC VALVE - STRAIGHT	2
PP032150-S	UTILITY SPARE	Inventory	3/4" TACO HEAT-GARD THERMOSTATIC VALVE - VERTICAL	2
PP032160-S	UTILITY SPARE	Inventory	ABB TZID-C POSITIONER	1
PP032170-S	UTILITY SPARE	Inventory	ABB TZID-C POSITIONER TO UP1/2 MOUNTING KIT	1
PP032180-S	UTILITY SPARE	Inventory	ABZ 6" BUTTERFLY VALVE	6
PP032190-S	UTILITY SPARE	Inventory	ADAMS 3" HIGH PRESSURE VALVE	1
PP032200-S	UTILITY SPARE	Inventory	ALLIED VALVE 4" 250# KUNKLE SAFETY VALVE FOR DA	2
PP032210-S	UTILITY SPARE	Inventory	ALLIED-KUNKLE 1" SAFETY RELIEF VALVE	1
PP032220-S	UTILITY SPARE	Inventory	ANDERSON GREENWOOD NEEDLE VALVE	5
PP032230-S	UTILITY SPARE	Inventory	AQUATROL BOILER 10 BOTTOM ASH RELIEF VALVE	1
PP032240-S	UTILITY SPARE	Inventory	ASH TYPE E MATERIAL HANDLING VALVE	2
PP032250-S	UTILITY SPARE	Inventory	BAG OF FISHER SUPPLIES	1
PP032260-S	UTILITY SPARE	Inventory	BAILEY PNEUMATIC POSITIONER	1
PP032270-S	UTILITY SPARE	Inventory	BAILEY PNEUMATIC POSITIONER	2
PP032280-S	UTILITY SPARE	Inventory	BAILEY PNEUMATIC POSITIONER	1
PP032290-S	UTILITY SPARE	Inventory	BRASS NORMALLY CLOSED CONTROL VALVE STEM	1
PP032300-S	UTILITY SPARE	Inventory	CASH VALVE	1
PP032320-S	UTILITY SPARE	Inventory	CENTER LINE 6" 200 SERIES BUTTERFLY VALVE	2
PP032330-S	UTILITY SPARE	Inventory	CHEMTROL BALL VALVE	3
PP032340-S	UTILITY SPARE	Inventory	CHICAGO FAUCET URINAL VALVE KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP032350-S	UTILITY SPARE	Inventory	CLOSED LOOP COOLING SAFETIES	4
PP032360-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY VALVE BOILER 8	1
PP032370-S	UTILITY SPARE	Inventory	CONTROL VALVE STEM PLUG	1
PP032380-S	UTILITY SPARE	Inventory	CRANE 150 3" GATE VALVE	1
PP032390-S	UTILITY SPARE	Inventory	DELVAL DELTECH 3" BUTTERFLY VALVE	3
PP032400-S	UTILITY SPARE	Inventory	DELTORQ PNEUMATIC RACK AND PINION ACTUATOR	1
PP032420-S	UTILITY SPARE	Inventory	DELVAL DELTECH BUTTERFLY VALVE 50/2"	7
PP032430-S	UTILITY SPARE	Inventory	DELVAL DELTECH BUTTERFLY VALVE 80/3"	1
PP032440-S	UTILITY SPARE	Inventory	DIAMOND POWER AIR RELIEF VALVE ASSEMBLY	2
PP032450-S	UTILITY SPARE	Inventory	DRAIN VALVE	1
PP032460-S	UTILITY SPARE	Inventory	DRESSER SAFETY RELIEF VALVE	1
PP032470-S	UTILITY SPARE	Inventory	EMERSON BACK-UP RING	1
PP032490-S	UTILITY SPARE	Inventory	EMERSON SEAL RING	1
PP032500-S	UTILITY SPARE	Inventory	EV BACK PRESSURE RELIEF VALVE	1
PP032510-S	UTILITY SPARE	Inventory	FARRIS SAFETY PRESSURE RELIEF VALVE TG6 RUPTURE DISC	2
PP032520-S	UTILITY SPARE	Inventory	FARVIEW 1/2 IN FEMALE PIPE CAST BRASS BALL VALVES	6
PP032530-S	UTILITY SPARE	Inventory	FISHER 2.5" SEAT RING	2
PP032540-S	UTILITY SPARE	Inventory	FISHER 3" ED GLOBE VALVE BODY ASSEMBLY	1
PP032550-S	UTILITY SPARE	Inventory	FISHER 3" NEOPRENE GASKET	6
PP032560-S	UTILITY SPARE	Inventory	FISHER 300PSI BOURDON TUBE OUT OF 6" FISHER CONTROLLER (BRASS)	1
PP032570-S	UTILITY SPARE	Inventory	FISHER 3622 ELECTRO PNEUMATIC CONVERTER	1
PP032580-S	UTILITY SPARE	Inventory	FISHER 4" GRAFOIL GASKET	1
PP032590-S	UTILITY SPARE	Inventory	FISHER 4" GRAPHITE PISTON RING	1
PP032600-S	UTILITY SPARE	Inventory	FISHER 4" SPIRAL-WOUND GASKET	2
PP032610-S	UTILITY SPARE	Inventory	FISHER 600PSI BOURDON TUBE FOR FISHER CONTROLLER (4130 ALLOY STEEL)	1
PP032620-S	UTILITY SPARE	Inventory	FISHER 7" BONNET GASKET	1
PP032630-S	UTILITY SPARE	Inventory	FISHER ACTUATOR ASSEMBLY, CON 17 SPARE LEVEL CTC FROM MIXED BED POLISHERS TO DA 11	1
PP032640-S	UTILITY SPARE	Inventory	FISHER ADJUSTMENT BAND ASSEMBLY	1
PP032650-S	UTILITY SPARE	Inventory	FISHER BACK-UP RING 2-1/2"	1
PP032660-S	UTILITY SPARE	Inventory	FISHER BELLOWS ASSEMBLY	4
PP032670-S	UTILITY SPARE	Inventory	FISHER BELLOWS FRAME	4
PP032680-S	UTILITY SPARE	Inventory	FISHER BOURDON TUBE FOR FLOAT CONTROL SOUTH STORAGE TANK	1
PP032690-S	UTILITY SPARE	Inventory	FISHER BRONZE BOLT	1
PP032700-S	UTILITY SPARE	Inventory	FISHER BUSHING ASSEMBLY	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP032710-S	UTILITY SPARE	Inventory	FISHER BUSHING, SEAL (SIZE 45/50)	1
PP032720-S	UTILITY SPARE	Inventory	FISHER CONTROL VALVE PARTS BOX	1
PP032730-S	UTILITY SPARE	Inventory	FISHER CONTROL VALVE PLUG	1
PP032740-S	UTILITY SPARE	Inventory	FISHER CONTROL VALVE STEM	2
PP032750-S	UTILITY SPARE	Inventory	FISHER CONTROLLER REPAIR KITS, STANDARD TEMP	1
PP032760-S	UTILITY SPARE	Inventory	FISHER CONTROLS PRESSURE REGULATOR	1
PP032770-S	UTILITY SPARE	Inventory	FISHER CONVETER REPAIR SPARES (TYPE 582I)	1
PP032780-S	UTILITY SPARE	Inventory	FISHER DESIGN E GASKETS	2
PP032790-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM	5
PP032800-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM	1
PP032810-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM ACTUATOR MOUNTING KIT	1
PP032820-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM KIT	8
PP032830-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM KIT	6
PP032840-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM REPAIR KIT WITH BUSHING SEAL (STEAM DRUM LEVEL SOUTH END)	1
PP032850-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM SET	1
PP032860-S	UTILITY SPARE	Inventory	FISHER DIAPHRAGM SET	1
PP032880-S	UTILITY SPARE	Inventory	FISHER DISC SEAT	1
PP032890-S	UTILITY SPARE	Inventory	FISHER DISC SEAT	1
PP032900-S	UTILITY SPARE	Inventory	FISHER DISC SEAT	1
PP032910-S	UTILITY SPARE	Inventory	FISHER DISC SEAT	2
PP032920-S	UTILITY SPARE	Inventory	FISHER ED GLOBE VALVE	1
PP032930-S	UTILITY SPARE	Inventory	FISHER FLAPPER	4
PP032940-S	UTILITY SPARE	Inventory	FISHER FLEXURE STRIP	8
PP032950-S	UTILITY SPARE	Inventory	FISHER GAS REG 1098 REPAIR KITS	1
PP032960-S	UTILITY SPARE	Inventory	FISHER GAS REGULATOR	1
PP032970-S	UTILITY SPARE	Inventory	FISHER GAS REGULATOR PARTS	1
PP032980-S	UTILITY SPARE	Inventory	FISHER GAS REGULATOR SPRING	4
PP032990-S	UTILITY SPARE	Inventory	FISHER GASKET	4
PP033000-S	UTILITY SPARE	Inventory	FISHER GASKET	4
PP033010-S	UTILITY SPARE	Inventory	FISHER GASKET	2
PP033020-S	UTILITY SPARE	Inventory	FISHER GASKET & O-RING KIT (TYPE 667 ACTUATOR)	1
PP033030-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033040-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033050-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP033060-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033070-S	UTILITY SPARE	Inventory	FISHER GASKET SET	4
PP033080-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033090-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033100-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033110-S	UTILITY SPARE	Inventory	FISHER GASKET SET	7
PP033120-S	UTILITY SPARE	Inventory	FISHER GASKET SET	4
PP033130-S	UTILITY SPARE	Inventory	FISHER GASKET SET	1
PP033140-S	UTILITY SPARE	Inventory	FISHER GUIDE BUSHING	2
PP033150-S	UTILITY SPARE	Inventory	FISHER HART FILTER	2
PP033160-S	UTILITY SPARE	Inventory	FISHER LINEAR FEEDBACK KIT	1
PP033170-S	UTILITY SPARE	Inventory	FISHER LOCKING NEEDLE VALVE	1
PP033180-S	UTILITY SPARE	Inventory	FISHER M95L PRESSURE REGULATOR	4
PP033190-S	UTILITY SPARE	Inventory	FISHER MOUNTING KIT	1
PP033200-S	UTILITY SPARE	Inventory	FISHER MR95 SERIES PRESSURE REGULATORS	4
PP033210-S	UTILITY SPARE	Inventory	FISHER NITRILE O-RING 5-5/8" DIA. 1/4" THICK	4
PP033220-S	UTILITY SPARE	Inventory	FISHER NITRILE O-RING 5-7/8" DIA. 1/8" THICK	4
PP033230-S	UTILITY SPARE	Inventory	FISHER O-RING & GASKET KIT (TYPE 3580, 3581, 3582, 3583)	1
PP033240-S	UTILITY SPARE	Inventory	FISHER O-RING, NITRILE 4-3/8"X4-3/4"X3/16"	1
PP033250-S	UTILITY SPARE	Inventory	FISHER PACKING BOX RING 3/4" STEM X 1-3/8"	2
PP033260-S	UTILITY SPARE	Inventory	FISHER PACKING KIT	1
PP033270-S	UTILITY SPARE	Inventory	FISHER PACKING KIT	3
PP033280-S	UTILITY SPARE	Inventory	FISHER PACKING KIT	6
PP033290-S	UTILITY SPARE	Inventory	FISHER PACKING SET	1
PP033300-S	UTILITY SPARE	Inventory	FISHER PACKING SET 3/4"X1-3/8"	2
PP033310-S	UTILITY SPARE	Inventory	FISHER PACKING SPRING STEM 3/4"	2
PP033320-S	UTILITY SPARE	Inventory	FISHER PARTS TO REPAIR VALVES "C" FLOOR RETURN WATER	1
PP033340-S	UTILITY SPARE	Inventory	FISHER PLUG	1
PP033350-S	UTILITY SPARE	Inventory	FISHER PLUG	1
PP033360-S	UTILITY SPARE	Inventory	FISHER PLUG	1
PP033370-S	UTILITY SPARE	Inventory	FISHER PLUG ASSEMBLY	1
PP033380-S	UTILITY SPARE	Inventory	FISHER PLUG STEM 3/8X8-5/8"	1
PP033390-S	UTILITY SPARE	Inventory	FISHER PNEUMATIC PILOT VALVE RELAY	3
PP033400-S	UTILITY SPARE	Inventory	FISHER POSITIONER MOUNTING PARTS	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP033410-S	UTILITY SPARE	Inventory	FISHER POSITIONER REBUILD KIT	1
PP033420-S	UTILITY SPARE	Inventory	FISHER PRESSURE CONTROL	5
PP033430-S	UTILITY SPARE	Inventory	FISHER PRESSURE MODULE	2
PP033450-S	UTILITY SPARE	Inventory	FISHER PRESSURE REGULATOR	1
PP033460-S	UTILITY SPARE	Inventory	FISHER PRESSURE TRANSDUCER	1
PP033470-S	UTILITY SPARE	Inventory	FISHER PRV FLAPPER PARTS	1
PP033480-S	UTILITY SPARE	Inventory	FISHER PRV PARTS	1
PP033490-S	UTILITY SPARE	Inventory	FISHER RAW WATER CONTROL VALVE STEM	1
PP033500-S	UTILITY SPARE	Inventory	FISHER REGULATOR	2
PP033510-S	UTILITY SPARE	Inventory	FISHER REGULATOR PARTS	1
PP033520-S	UTILITY SPARE	Inventory	FISHER REGULATOR REPAIR KIT	2
PP033530-S	UTILITY SPARE	Inventory	FISHER RELAY TUBING	1
PP033540-S	UTILITY SPARE	Inventory	FISHER RELAY TYPE (83L & 83U) REPAIR KIT	1
PP033550-S	UTILITY SPARE	Inventory	FISHER REPAIR KIT	1
PP033560-S	UTILITY SPARE	Inventory	FISHER RESET VALVE	1
PP033570-S	UTILITY SPARE	Inventory	FISHER REVERSING BLOCK	2
PP033580-S	UTILITY SPARE	Inventory	FISHER SEAT BUSHING	1
PP033590-S	UTILITY SPARE	Inventory	FISHER SEAT RING 2-1/2"	1
PP033600-S	UTILITY SPARE	Inventory	FISHER SEAT RING SPRING RADIAL 4.09X4.47	2
PP033610-S	UTILITY SPARE	Inventory	FISHER SEAT RETAINER CAGE	1
PP033620-S	UTILITY SPARE	Inventory	FISHER SEAT RING	1
PP033630-S	UTILITY SPARE	Inventory	FISHER SEAT RING	1
PP033640-S	UTILITY SPARE	Inventory	FISHER SEAT RING	4
PP033650-S	UTILITY SPARE	Inventory	FISHER SEAT RING GASKET	1
PP033660-S	UTILITY SPARE	Inventory	FISHER SINGLE TFE	1
PP033670-S	UTILITY SPARE	Inventory	FISHER SPRING RETAINER BUSHING ASSEMBLY	1
PP033680-S	UTILITY SPARE	Inventory	FISHER TG 6 HOTWELL/CONDENSATE VALVE REBUILD KIT	1
PP033690-S	UTILITY SPARE	Inventory	FISHER TYPE 83L POSITIONER TYPE SERIES 3580 & 3582	1
PP033700-S	UTILITY SPARE	Inventory	FISHER TYPE 98 RELIEF VALVE PARTS	1
PP033710-S	UTILITY SPARE	Inventory	FISHER VALVE CAGE	1
PP033720-S	UTILITY SPARE	Inventory	FISHER VALVE CAGE, QO 1, 1-5/16" PORT	1
PP033730-S	UTILITY SPARE	Inventory	FISHER VENT ASSEMBLY	1
PP033740-S	UTILITY SPARE	Inventory	FISHER WASHER 3/4" STEM	1
PP033750-S	UTILITY SPARE	Inventory	FISHER/EMERSON REPAIR KIT	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP033760-S	UTILITY SPARE	Inventory	INLINE DEFLAGRATION ARRESTOR	1
PP033770-S	UTILITY SPARE	Inventory	FLOW TEK BRAY PNEUMATIC ACTUATOR	1
PP033780-S	UTILITY SPARE	Inventory	FLOWERVE VALVE WHEEL	2
PP033790-S	UTILITY SPARE	Inventory	FLOWERVE VALVES VOGT	1
PP033800-S	UTILITY SPARE	Inventory	GARLOCK PRV DIAPHRAGM	1
PP033810-S	UTILITY SPARE	Inventory	GRUNDFOS MFV VALVES	2
PP033820-S	UTILITY SPARE	Inventory	GRANZOW ELECTRIC DRAIN VALVE 1/2"	1
PP033830-S	UTILITY SPARE	Inventory	HAMMOND 4" BUTTERFLY VALVE	2
PP033840-S	UTILITY SPARE	Inventory	HOMEMADE VALVE SEAT REMOVING TOOL	1
PP033850-S	UTILITY SPARE	Inventory	JAMESBURY 6" GAS VALVE	1
PP033860-S	UTILITY SPARE	Inventory	JAMESBURY ACTUATOR	3
PP033870-S	UTILITY SPARE	Inventory	JAMESBURY WAFER-SPHERE BUTTERFLY VALVE	2
PP033880-S	UTILITY SPARE	Inventory	JEAVONS 4" 150 GATE VALVE	1
PP033890-S	UTILITY SPARE	Inventory	JERGUSON VALVE	3
PP033900-S	UTILITY SPARE	Inventory	JOHN CRANE INC. PACKING SET	1
PP033910-S	UTILITY SPARE	Inventory	KUNKLE 1-1/4" SAFETY FOR BLR11 ASH SCREW	1
PP033930-S	UTILITY SPARE	Inventory	KUNKLE 3/4" 15PSI SAFETY VALVE	1
PP033940-S	UTILITY SPARE	Inventory	KUNKLE PRESSURE RELIEF VALVE	2
PP033950-S	UTILITY SPARE	Inventory	KUNKLE SERVICE AIR TANK SAFETY	1
PP033960-S	UTILITY SPARE	Inventory	LEGEND T-1001 BRASS BALL VALVE 3/4 IN	12
PP033970-S	UTILITY SPARE	Inventory	MASONEILAN AP DIGITAL POSITIONER	1
PP033980-S	UTILITY SPARE	Inventory	MASONEILAN BLR 10 SKY VALVE SEAT RING FOR 41000 SERIES VALVE 3"	1
PP033990-S	UTILITY SPARE	Inventory	MASONELIAN BLR 10 SKYVALVE REBUILD KIT	1
PP034000-S	UTILITY SPARE	Inventory	MASONELIAN NORTH SIDELINE TURBINE BYPASS VALVE REBUILD KIT & VALVE SEAT	1
PP034010-S	UTILITY SPARE	Inventory	MATRYX VANE ACTUATOR	2
PP034020-S	UTILITY SPARE	Inventory	MATRYX VANE ACTUATOR 120 PSI	1
PP034030-S	UTILITY SPARE	Inventory	MAXON "STO" VENT VALVE	2
PP034040-S	UTILITY SPARE	Inventory	MEAD FLUID DYNAMICS 4-WAY SWITCH VALVE	1
PP034050-S	UTILITY SPARE	Inventory	METRAFLEX MENTRAVENT AUTOMATIC AIR VENT VALVE	2
PP034060-S	UTILITY SPARE	Inventory	MILWAUKEE 4" BUTTERFLY VALVE	2
PP034070-S	UTILITY SPARE	Inventory	MILWAUKEE VALVE	1
PP034080-S	UTILITY SPARE	Inventory	MILWAUKEE VALVE	1
PP034090-S	UTILITY SPARE	Inventory	MORIN PNEUMATIC ACTUATOR	1
PP034100-S	UTILITY SPARE	Inventory	NORGREN AIR DIAPHRAGM REGULATOR FOR HI-PRESSURE CALIBRATION	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP034110-S	UTILITY SPARE	Inventory	NORGREN PNEUMATIC REGULATOR DIAPHRAGM	1
PP034120-S	UTILITY SPARE	Inventory	NORGREN FIXED GAS DETECTOR REGULATION KIT FOR HI-PRESSURE CALIBRATION	2
PP034140-S	UTILITY SPARE	Inventory	NORGREN PRESSURE REGULATOR	1
PP034150-S	UTILITY SPARE	Inventory	NORGREN PRESSURE REGULATOR	2
PP034160-S	UTILITY SPARE	Inventory	NORGREN REGULATOR	1
PP034170-S	UTILITY SPARE	Inventory	NORMALLY CLOSED CONTROL VALVE STEM	1
PP034180-S	UTILITY SPARE	Inventory	NUMATICS MINI PRESSURE REGULATOR	1
PP034190-S	UTILITY SPARE	Inventory	PBV-USA VALVE	2
PP034200-S	UTILITY SPARE	Inventory	PENTAIR PNEUMATIC RACK AND PINION ACTUATOR	2
PP034210-S	UTILITY SPARE	Inventory	PETER PAUL SAFETY VALVE	4
PP034220-S	UTILITY SPARE	Inventory	PNEUMATIC DIAPHRAGM VALVE PARTS	1
PP034230-S	UTILITY SPARE	Inventory	PRAX AIR PROSTAR PLATINUM REGULATOR	1
PP034240-S	UTILITY SPARE	Inventory	ROCKWELL MANUFACTURING VALVE STEM	2
PP034250-S	UTILITY SPARE	Inventory	SHARPE 1-1/2" ANTI BACKFLOW VALVE	1
PP034260-S	UTILITY SPARE	Inventory	SHUTOFF VALVE	1
PP034270-S	UTILITY SPARE	Inventory	SPEARS TRUE UNION BALL VALVE SOCKET	1
PP034280-S	UTILITY SPARE	Inventory	SPEARS TRUE UNION BALL VALVE SOCKET/FIPT	2
PP034290-S	UTILITY SPARE	Inventory	SPEARS TU 2000 STANDARD BALL VALVE 1 1/4"	2
PP034300-S	UTILITY SPARE	Inventory	SPEARS TU 2000 STANDARD BALL VALVE SOC/FIPT 1 1/2"	2
PP034310-S	UTILITY SPARE	Inventory	SPEARS TU 2000 STANDARD BALL VALVE SOC/FIPT 3/4"	2
PP034320-S	UTILITY SPARE	Inventory	SPEARS TU 2000 STANDARD BALL VALVE1 1/4"	1
PP034330-S	UTILITY SPARE	Inventory	STEEL VALVE REPAIR KIT	2
PP034340-S	UTILITY SPARE	Inventory	STRATAFLO 2" CHECK VALVE	1
PP034350-S	UTILITY SPARE	Inventory	STRATAFLO CHECK VALVE	1
PP034360-S	UTILITY SPARE	Inventory	STRATAFLO CHECK VALVE	1
PP034370-S	UTILITY SPARE	Inventory	SWAGELOK 1/2" BLOWDOWN NEEDLE VALVE	2
PP034380-S	UTILITY SPARE	Inventory	SWAGELOK 1/4" BRASS QUARTER-TURN INSTRUMENT PLUG VALVE	1
PP034390-S	UTILITY SPARE	Inventory	SWAGELOK STAINLESS STEEL NEEDLE VALVE	1
PP034400-S	UTILITY SPARE	Inventory	TACO HEAT-GARD DIRECT MOUNT	1
PP034420-S	UTILITY SPARE	Inventory	TOYO VALVE	1
PP034430-S	UTILITY SPARE	Inventory	UCC INSERT FLOW CONE	1
PP034440-S	UTILITY SPARE	Inventory	UCC LOWER ASH GATE & SEAT	1
PP034450-S	UTILITY SPARE	Inventory	UCC ROLLER	4
PP034460-S	UTILITY SPARE	Inventory	UCC SEAT VALVE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP034480-S	UTILITY SPARE	Inventory	VALVE HANDLES & WHEELS	2
PP034490-S	UTILITY SPARE	Inventory	VALVE LEVER	2
PP034500-S	UTILITY SPARE	Inventory	WALCHEM VALVE	1
PP034510-S	UTILITY SPARE	Inventory	WATTS REDUCED PRESSURE ZONE ASSEMBLY	2
PP034520-S	UTILITY SPARE	Inventory	WRIGHT COMPNAY BALL VALVE 1/2"	1
PP034530-S	UTILITY SPARE	Inventory	YARWAY 1-1/2" VALVE PACKING - STEEL	13
PP034540-S	UTILITY SPARE	Inventory	YARWAY 1-1/2" BRASS LOWER GLAND	7
PP034550-S	UTILITY SPARE	Inventory	YARWAY 1-1/2" BRASS UPPER GLAND	6
PP034560-S	UTILITY SPARE	Inventory	YARWAY 1-1/2" STEEL LOWER GLAND	7
PP034570-S	UTILITY SPARE	Inventory	YARWAY 1-1/2" STEEL UPPER GLAND	7
PP034580-S	UTILITY SPARE	Inventory	YARWAY 2" VALVE PACKING - STEEL	6
PP034590-S	UTILITY SPARE	Inventory	YARWAY 2" BRASS UPPER GLAND	4
PP034600-S	UTILITY SPARE	Inventory	YARWAY 2" STEEL UPPER GLAND	4
PP034610-S	UTILITY SPARE	Inventory	YARWAY 2" VALVE PACKING - TYPE B IRON	4
PP034620-S	UTILITY SPARE	Inventory	YARWAY 2-1/2" VALVE PACKING - TYPE C STEEL	7
PP034630-S	UTILITY SPARE	Inventory	YARWAY 2-1/2" STEEL LOWER GLAND	2
PP034640-S	UTILITY SPARE	Inventory	YARWAY 2-1/2" STEEL UPPER GLAND	2
PP034650-S	UTILITY SPARE	Inventory	YARWAY PACKING BOLT	2
PP034660-S	UTILITY SPARE	Inventory	FISHER PRESSURE REGULATOR VALVE	4
PP034670-S	UTILITY SPARE	Inventory	BRAY CONTROLS ACTUATOR	5
PP034680-S	UTILITY SPARE	Inventory	BRAY CONTROLS BUTTERFLY VALVE	2
PP034690-S	UTILITY SPARE	Inventory	FISHER GLOBE CONTROL VALVE	1
PP034700-S	UTILITY SPARE	Inventory	ADAMS FLOW VALVE	1
PP034710-S	UTILITY SPARE	Inventory	ALLEN SHERMAN HOFF VALVE BODY ASSEMBLY	2
PP034720-S	UTILITY SPARE	Inventory	BAUMEN AIR OPERATED VALVE	1
PP034730-S	UTILITY SPARE	Inventory	BECK ACTUATORS	2
PP034740-S	UTILITY SPARE	Inventory	BECK ELECTRIC ROTARY ACTUATOR	1
PP034750-S	UTILITY SPARE	Inventory	CRANE GATE VALVE	2
PP034760-S	UTILITY SPARE	Inventory	EVERLASTING VALVE	1
PP034770-S	UTILITY SPARE	Inventory	FISHER 100 PSI REQ VALVE	1
PP034780-S	UTILITY SPARE	Inventory	FISHER ACTUATOR	1
PP034790-S	UTILITY SPARE	Inventory	FISHER FIELDVUE INSTRUMENTS	1
PP034800-S	UTILITY SPARE	Inventory	FISHER PRESSURE REDUCING REGULATOR	1
PP034810-S	UTILITY SPARE	Inventory	FISHER PRESSURE REGULATOR	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP034830-S	UTILITY SPARE	Inventory	FLOWERVE FLOW VALVE	1
PP034840-S	UTILITY SPARE	Inventory	FULFLO RELIEF VALVE	1
PP034850-S	UTILITY SPARE	Inventory	JAMESBURG 3/4" BALL VALVE	1
PP034860-S	UTILITY SPARE	Inventory	JAMESBURY SPRING RETURN	1
PP034870-S	UTILITY SPARE	Inventory	KICE DIVERTER VALVE	2
PP034880-S	UTILITY SPARE	Inventory	MARTIN ENGINEERING VALVE UPGRADES	1
PP034890-S	UTILITY SPARE	Inventory	MASONEILAN HYDRAULIC VALVE	2
PP034900-S	UTILITY SPARE	Inventory	PBV UNIBODY VALVE	3
PP034910-S	UTILITY SPARE	Inventory	PBV VALVE	3
PP034920-S	UTILITY SPARE	Inventory	PBV VALVE WHEEL	6
PP034930-S	UTILITY SPARE	Inventory	PRATT 2FII BUTTERFLY VALVE	1
PP034940-S	UTILITY SPARE	Inventory	RCM ELECTRO-HYDRAULIC FAIL SAFE ACTUATOR	2
PP034950-S	UTILITY SPARE	Inventory	UCC 4" KNIFE GATE VALVE	1
PP034960-S	UTILITY SPARE	Inventory	UCC 4" KNIFE GATE VALVE WITH CHUTE	1
PP034970-S	UTILITY SPARE	Inventory	UCC 6" KNIFE GATE VALVE	3
PP034980-S	UTILITY SPARE	Inventory	UCC 6" KNIFE GATE VALVE WITH CHUTE	1
PP034990-S	UTILITY SPARE	Inventory	UCC FLOW CONE 4"	1
PP035000-S	UTILITY SPARE	Inventory	UCC FLOW GATE 6"	4
PP035010-S	UTILITY SPARE	Inventory	YARWAY VALVE	3
PP035020-S	UTILITY SPARE	Inventory	150 WCB CRANE GATE VALVE	2
PP035030-S	UTILITY SPARE	Inventory	3" FLOW GATE VALVE	2
PP035040-S	UTILITY SPARE	Inventory	ADAMS 6" BUTTERFLY VALVE	1
PP035050-S	UTILITY SPARE	Inventory	ADAMS BUTTERFLY VALVE	1
PP035060-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035070-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035080-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035090-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035100-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035110-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035120-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035130-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035140-S	UTILITY SPARE	Inventory	ALLIED SAFETY RELIEF VALVE	1
PP035150-S	UTILITY SPARE	Inventory	ALLIED SAFETY SPRING VALVE	1
PP035160-S	UTILITY SPARE	Inventory	ALLIED SAFETY SPRING VALVE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP035180-S	UTILITY SPARE	Inventory	ALLIED SAFETY SPRING VALVE	1
PP035200-S	UTILITY SPARE	Inventory	ALLIED SAFETY SPRING VALVE	1
PP035220-S	UTILITY SPARE	Inventory	ALLIED-KUNKLE SAFETY RELIEF VALVE	1
PP035230-S	UTILITY SPARE	Inventory	ALLIED-KUNKLE SAFETY RELIEF VALVE	1
PP035240-S	UTILITY SPARE	Inventory	ALLIED-KUNKLE SAFETY SPRING VALVE	1
PP035250-S	UTILITY SPARE	Inventory	ASH SYSTEM GATE VALVE	1
PP035260-S	UTILITY SPARE	Inventory	AWWA WEDGE GATE VALVE	2
PP035270-S	UTILITY SPARE	Inventory	BALL VALVE	2
PP035280-S	UTILITY SPARE	Inventory	BIG CRANE VALVE	1
PP035290-S	UTILITY SPARE	Inventory	BUTTERFLY VALVE	3
PP035300-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY RELIEF VALVE	1
PP035310-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY RELIEF VALVE	1
PP035320-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY SPRING VALVE	1
PP035330-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY SPRING VALVE	1
PP035340-S	UTILITY SPARE	Inventory	CONSOLIDATED SAFETY SPRING VALVE	1
PP035350-S	UTILITY SPARE	Inventory	CRANE 3" STEEL GATE VALVE 300	1
PP035360-S	UTILITY SPARE	Inventory	CRANE 4" STEEL GATE VALVE 300	1
PP035370-S	UTILITY SPARE	Inventory	CRANE GATE VALVE	1
PP035380-S	UTILITY SPARE	Inventory	DIAMOND POWER HARDWARE KIT POPPET VALVE	2
PP035390-S	UTILITY SPARE	Inventory	FARRIS VALVE	1
PP035400-S	UTILITY SPARE	Inventory	FARRIS VALVE	3
PP035410-S	UTILITY SPARE	Inventory	FLOW VALVE	3
PP035420-S	UTILITY SPARE	Inventory	GRINNELL SPRING RELIEF	1
PP035430-S	UTILITY SPARE	Inventory	JENKINS FLOW VALVE	4
PP035440-S	UTILITY SPARE	Inventory	JOINT FLOW VALVE	1
PP035450-S	UTILITY SPARE	Inventory	KUNKLE SAFETY RELIEF VALVE	1
PP035460-S	UTILITY SPARE	Inventory	KUNKLE SAFETY RELIEF VALVE	1
PP035470-S	UTILITY SPARE	Inventory	KUNKLE SAFETY RELIEF VALVE	1
PP035480-S	UTILITY SPARE	Inventory	KUNKLE SAFETY SPRING VALVE	1
PP035490-S	UTILITY SPARE	Inventory	KUNKLE VALVE	1
PP035500-S	UTILITY SPARE	Inventory	KUNKLE VALVE	1
PP035510-S	UTILITY SPARE	Inventory	MASONEILAN FLOW CONTROL	1
PP035520-S	UTILITY SPARE	Inventory	MASONEILAN-DRESSER 16" LO-DB CARTRIDGE	1
PP035530-S	UTILITY SPARE	Inventory	MAXON FLOW VALVE	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP035540-S	UTILITY SPARE	Inventory	MAXON NORMALLY CLOSED SHUT OFF VALVE	1
PP035550-S	UTILITY SPARE	Inventory	MAXON NORMALLY CLOSED VALVE	2
PP035560-S	UTILITY SPARE	Inventory	MAXON NORMALLY CLOSED VALVE	1
PP035570-S	UTILITY SPARE	Inventory	MAXON NORMALLY CLOSED VALVE	1
PP035580-S	UTILITY SPARE	Inventory	MAXON NORMALLY CLOSED VALVE	1
PP035590-S	UTILITY SPARE	Inventory	MAXON NORMALLY OPEN VALVE	1
PP035600-S	UTILITY SPARE	Inventory	MAXON NORMALLY OPEN VALVE	1
PP035610-S	UTILITY SPARE	Inventory	MAXON NORMALLY OPEN VENT VALVE	1
PP035620-S	UTILITY SPARE	Inventory	NBC 6" GATE VALVE	2
PP035630-S	UTILITY SPARE	Inventory	NELES JAMESBURY 1/2" SHUTOFF	1
PP035640-S	UTILITY SPARE	Inventory	PBV GATE VALVE	1
PP035650-S	UTILITY SPARE	Inventory	POWELL GATE VALVE	2
PP035660-S	UTILITY SPARE	Inventory	ROCKWELL EDWARD VALVE	3
PP035670-S	UTILITY SPARE	Inventory	SPRING RELIEF	2
PP035680-S	UTILITY SPARE	Inventory	STOCKHAM GATE VALVE	1
PP035690-S	UTILITY SPARE	Inventory	TG#6 HEADER STOP VALVE	1
PP035700-S	UTILITY SPARE	Inventory	VALVE WHEEL	4
PP035710-S	UTILITY SPARE	Inventory	WATTS DOUBLE CHECK BACKFLOW PREVENTER	2
PP035720-S	UTILITY SPARE	Inventory	YARWAY VALVE	1
PP035730-S	UTILITY SPARE	Inventory	ECCOTEMP PORTABLE TANKLESS WATER HEATER	1
PP035740-S	UTILITY SPARE	Inventory	GRUNDFOS DOSING PUMP CABLE	2
PP035750-S	UTILITY SPARE	Inventory	BENTLY NEVADA REINFORCED SENSOR WIRING	6
PP035760-S	UTILITY SPARE	Inventory	CA-70-80 SERIES	1
PP035770-S	UTILITY SPARE	Inventory	CABLEMASTER SJ00W CABLE KIT	1
PP035780-S	UTILITY SPARE	Inventory	CO ANALYZER MODEM CABLE	1
PP035790-S	UTILITY SPARE	Inventory	COEN WIRING	1
PP035800-S	UTILITY SPARE	Inventory	CROSS TECHNOLOGY INC. CABLE ENTRY SEAL	1
PP035810-S	UTILITY SPARE	Inventory	DREXELBROOK STABILIZED CABLE	5
PP035820-S	UTILITY SPARE	Inventory	ECOMOT CONNECTION UNITS	2
PP035830-S	UTILITY SPARE	Inventory	EFECTOR WIRING	3
PP035840-S	UTILITY SPARE	Inventory	EFECTOR WIRING KIT	1
PP035850-S	UTILITY SPARE	Inventory	GRUNDFOS ACC. CABLE 5M, CONTROL INPUT	2
PP035860-S	UTILITY SPARE	Inventory	MAC SENSOR CABLE	2
PP035870-S	UTILITY SPARE	Inventory	MISC WIRING	3

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP035880-S	UTILITY SPARE	Inventory	ORION POWER CORD	1
PP035890-S	UTILITY SPARE	Inventory	SEMPERIT 3/8" WIRING	2
PP035900-S	UTILITY SPARE	Inventory	TURCK WIRING	2
PP035910-S	UTILITY SPARE	Inventory	WIRING WITH FEMALE CONNECTORS	3
PP035920-S	UTILITY SPARE	Inventory	YOKOGAWA GROUND CABLE	1
PP035930-S	UTILITY SPARE	Inventory	GROUND WIRES	6
PP035940-S	UTILITY SPARE	Inventory	WIRE SPOOL	1
PP035950-S	UTILITY SPARE	Inventory	DRUM BUNG/PLUG WRENCH ALUMINUM	2
PP035960-S	UTILITY SPARE	Inventory	DRUM BUNG/PLUG WRENCH STAINLESS STEEL	1
PP035970-S	UTILITY SPARE	Inventory	RIDGID CHAIN WRENCH SPARE LINK ASSEMBLY	1
PP035980-S	UTILITY SPARE	Inventory	TIMKEN ROLLER BEARING CUP	2
PP035990-S	UTILITY SPARE	Inventory	TIMKEN ROLLER BEARING CONE	1
PP036000-S	UTILITY SPARE	Inventory	ROSEMOUNT TG6 BEARING OIL PRESSURE TRANSMITTER	1
PP036010-S	UTILITY SPARE	Inventory	SKF EXPLORER ROLLER BEARING	3
PP036020-S	UTILITY SPARE	Inventory	SKF ROLLER BEARING	1
PP036030-S	UTILITY SPARE	Inventory	SKF EXPLORER BALL BEARING	2
PP036040-S	UTILITY SPARE	Inventory	GRAPHALLOY BOILER 11 ID FAN BUSHINGS	32
PP036050-S	UTILITY SPARE	Inventory	UCC OIL-IMPREGNATED BRONZE BUSHING	13
PP036060-S	UTILITY SPARE	Inventory	BROWNING GAS GENERATOR RADIATOR FAN ROLLER BEARING	2
PP036070-S	UTILITY SPARE	Inventory	FEDERAL MOGUL OIL SEAL	3
PP036080-S	UTILITY SPARE	Inventory	MANVILLE CLIPPER OIL SEAL	6
PP036090-S	UTILITY SPARE	Inventory	FEDERAL MOGUL OIL SEAL	2
PP036100-S	UTILITY SPARE	Inventory	SEALMASTER 1 1/16" FLANGE HOUSING BALL BEARING	1
PP036110-S	UTILITY SPARE	Inventory	HOSPITAL BOILER BLOWDOWN VALVE ACTUATOR	1
PP036120-S	UTILITY SPARE	Inventory	MADDEN CONT. BLOWDOWN STEM FOR ROTATING DISC	3
PP036130-S	UTILITY SPARE	Inventory	MADDEN CONT. BLOWDOWN PINION	1
PP036140-S	UTILITY SPARE	Inventory	MADDEN CONT. BLOWDOWN STEM PACKING	4
PP036150-S	UTILITY SPARE	Inventory	MADDEN CONT. BLOWDOWN ASSEMBLY	1
PP036160-S	UTILITY SPARE	Inventory	MARTIN BIG BLASTER AIR CANNON XHV RETROFIT VALVE	2
PP036170-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY CIRCUIT BREAKER	1
PP036180-S	UTILITY SPARE	Inventory	GE CIRCUIT BREAKER	3
PP036190-S	UTILITY SPARE	Inventory	WESTWARD 3 GALLON SPRAYER	3
PP036200-S	UTILITY SPARE	Inventory	THOMAS COMPRESSOR SERVICE KIT	5
PP036210-S	UTILITY SPARE	Inventory	SULLAIR VACUUM SWITCH	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP036220-S	UTILITY SPARE	Inventory	SPECIAL TIMER CORP BOILER 11 BAGHOUSE TIMER	3
PP036230-S	UTILITY SPARE	Inventory	SUPERSTRUT 4" CONDUIT HANGER	3
PP036240-S	UTILITY SPARE	Inventory	SCHENCK 5-1 CONVEYOR BELT RUBBER SCRAPER BLADE	3
PP036250-S	UTILITY SPARE	Inventory	OMRON BOILER 12 PANEL METER	1
PP036260-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER FIELD METER	2
PP036270-S	UTILITY SPARE	Inventory	MERSEN AMP-TRAP BOILER 12 VFD FUSE 15.5kV 65A	3
PP036280-S	UTILITY SPARE	Inventory	INFINEON BOILER 12 VFD RECTIFIER 2200V 260A	12
PP036290-S	UTILITY SPARE	Inventory	EATON BUSSMANN BOILER 12 VFD FUSE 15.5kV 500mA	4
PP036300-S	UTILITY SPARE	Inventory	BOILER 12 VFD MISC SPARE ELECTRONICS BOX	1
PP036310-S	UTILITY SPARE	Inventory	MERSEN AMP-TRAP BOILER 12 VFD FUSE 700V 200A	18
PP036320-S	UTILITY SPARE	Inventory	PUREGAS 20" CARBON DIOXIDE EXTRACTOR TOWER	2
PP036330-S	UTILITY SPARE	Inventory	RITTAL FINE FILTER MAT	6
PP036340-S	UTILITY SPARE	Inventory	UCC DSI AERZEN FILTERS	12
PP036350-S	UTILITY SPARE	Inventory	CUSTOM SCHILLS DSI FEEDER FILTER	3
PP036360-S	UTILITY SPARE	Inventory	PENTAIR TRASAR FILTER CARTRIDGE	2
PP036370-S	UTILITY SPARE	Inventory	KICE FILTER INSERTS	4
PP036380-S	UTILITY SPARE	Inventory	AAF FLANDERS PERFECTPLEAT SC 16X20X4" MERV 8 AIR FILTER	6
PP036390-S	UTILITY SPARE	Inventory	SPIRAX SARCO VACUUM BREAKER	1
PP036400-S	UTILITY SPARE	Inventory	HOSPITAL BOILER HEX WATER VALVE FLANGE	2
PP036410-S	UTILITY SPARE	Inventory	LITTELFUSE FAST ACTING FUSE 600V 600A	6
PP036420-S	UTILITY SPARE	Inventory	LITTELFUSE 250V 2.5A FUSE	5
PP036430-S	UTILITY SPARE	Inventory	FERRAZ SHAWMUT PROTISTOR 690V 350A	2
PP036440-S	UTILITY SPARE	Inventory	EATON BUSSMANN BOILER 8 FD FAN FUSE 600V 600A	2
PP036450-S	UTILITY SPARE	Inventory	BUSSMANN MAKEUP PUMP FUSE 600V 30A	6
PP036460-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY FUSE BLOCK	2
PP036470-S	UTILITY SPARE	Inventory	MAXOS CLEAR FLAT GAUGE GLASS SIZE #9	2
PP036480-S	UTILITY SPARE	Inventory	ERNST GAUGE GLASS MICA SIZE #9	6
PP036490-S	UTILITY SPARE	Inventory	CONBRACO CBD FLASH TANK SIGHT GLASS FITTING WASHER	5
PP036500-S	UTILITY SPARE	Inventory	CONBRACO CBD FLASH TANK SIGHT GLASS FITTING NUT	5
PP036510-S	UTILITY SPARE	Inventory	CONBRACO CBD FLASH TANK SIGHT GLASS FITTING GASKET	5
PP036520-S	UTILITY SPARE	Inventory	TEL-TRU 5" DIAL THERMOMETER 0-220F	1
PP036530-S	UTILITY SPARE	Inventory	GRAINGER PRESSURE GAUGE 3-1/2" 0-600 PSI FILLED	2
PP036540-S	UTILITY SPARE	Inventory	ENERPAC PRESSURE GAUGE 2-1/2" 0-1000 PSI FILLED	2
PP036550-S	UTILITY SPARE	Inventory	ASHCROFT MAXIVISION 5" DIAL THERMOMETER 50-550F	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP036560-S	UTILITY SPARE	Inventory	ASHCROFT MAXIVISION 5" DIAL THERMOMETER 0-250F	2
PP036570-S	UTILITY SPARE	Inventory	ASHCROFT INDUSTRIAL DURALIFE GAUGE 2-1/2" 160 PSI	2
PP036580-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE 4-1/2" 0-600 PSI	2
PP036590-S	UTILITY SPARE	Inventory	ASHCROFT DURAGAUGE 4-1/2" 0-1000 PSI	2
PP036600-S	UTILITY SPARE	Inventory	TG6 EXCITER PARTS	1
PP036610-S	UTILITY SPARE	Inventory	FEDERAL SIGNAL FIREBALL AMBER STROBE WARNING LIGHT	1
PP036620-S	UTILITY SPARE	Inventory	PHILIPS LED LAMP	11
PP036630-S	UTILITY SPARE	Inventory	KILLARK CLEAR GLASS GLOBE	1
PP036640-S	UTILITY SPARE	Inventory	KEYSTONE LED LAMP	3
PP036650-S	UTILITY SPARE	Inventory	KEYSTONE LED LAMP	3
PP036660-S	UTILITY SPARE	Inventory	GE LED TUBE DRIVER	40
PP036670-S	UTILITY SPARE	Inventory	DAY-BRITE COMPAC EMERGENCY SAFETY LIGHT	1
PP036680-S	UTILITY SPARE	Inventory	ADVANCE RAPID-START ELECTRONIC BALLAST	1
PP036690-S	UTILITY SPARE	Inventory	ADVANCE CORE & COIL BALLAST KIT	11
PP036700-S	UTILITY SPARE	Inventory	WATERS EQUIPMENT SAMPLE COOLER	1
PP036710-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY PILOT LIGHT	1
PP036720-S	UTILITY SPARE	Inventory	SOLA-HD POWER SUPPLY	2
PP036730-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY MICROVIEW INTERFACE PANEL	1
PP036740-S	UTILITY SPARE	Inventory	TSUBAKI 1-1/4" 12T #60 SPROCKET	2
PP036750-S	UTILITY SPARE	Inventory	SUMITOMO OAT HULL UNLOADING GEARBOX	1
PP036760-S	UTILITY SPARE	Inventory	REXNORD 1110T BOILER 11 BOTTOM ASH SCREW HUB 3.9975"	1
PP036770-S	UTILITY SPARE	Inventory	REXNORD 1110T BOILER 11 BOTTOM ASH SCREW HUB 3.6250"	1
PP036780-S	UTILITY SPARE	Inventory	REXNORD 1100T BOILER 11 BOTTOM ASH SCREW GRID COVER ASSEMBLY	1
PP036790-S	UTILITY SPARE	Inventory	OPTIBELT V-BELT	1
PP036800-S	UTILITY SPARE	Inventory	MEGADYNE UNIMATCH BX-100 BELT	6
PP036810-S	UTILITY SPARE	Inventory	MEGADYNE UNIMATCH AX-78 BELT	2
PP036820-S	UTILITY SPARE	Inventory	DAYTON ANSI #60 ROLLER CHAIN 10'	4
PP036830-S	UTILITY SPARE	Inventory	KNF ANALYZER PUMP REBUILD KIT	9
PP036840-S	UTILITY SPARE	Inventory	KNF ANALYZER GAS PUMP	2
PP036850-S	UTILITY SPARE	Inventory	SQUARE D INDUSTRIAL CONTROL RELAY	1
PP036860-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD RELAY	2
PP036870-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	6
PP036880-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY OVERLOAD HEATER UNIT	5
PP036890-S	UTILITY SPARE	Inventory	USA SEALING DSI FEEDER LID NEOPRENE FOAM GASKET STRIP	7

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP036900-S	UTILITY SPARE	Inventory	UCC ASH SYSTEM STEEL REINFORCED 8.75" OD GASKET	20
PP036910-S	UTILITY SPARE	Inventory	UCC ASH HOPPER GASKET	9
PP036920-S	UTILITY SPARE	Inventory	POWER PROCESS GRAFOIL FOIL GASKET WITH HOLES	5
PP036930-S	UTILITY SPARE	Inventory	GARLOCK FLEXSEAL 25" 300 ASME 304 FG	3
PP036940-S	UTILITY SPARE	Inventory	FLEXITALLIC BOILER 11 17" GRAPHITE GASKET	10
PP036950-S	UTILITY SPARE	Inventory	FLEXITALLIC 3/4" 3-4-600 ASME GASKET	12
PP036960-S	UTILITY SPARE	Inventory	CONDENSATE FILTER GASKET 27"	3
PP036970-S	UTILITY SPARE	Inventory	OVAL GRAFOIL GASKET ECB WCB	6
PP036980-S	UTILITY SPARE	Inventory	YOKOGAWA RO ANALYZER PH & ORP SENSOR	1
PP036990-S	UTILITY SPARE	Inventory	YOKOGAWA REPLACEMENT CONDUCTIVITY SENSOR	1
PP037000-S	UTILITY SPARE	Inventory	WALTRON SODIUM MEASURING ELECTRODE KIT	1
PP037010-S	UTILITY SPARE	Inventory	TELEDYNE T20X, T200U, & T200UP DESSICANT KIT	3
PP037020-S	UTILITY SPARE	Inventory	TELEDYNE SO2 ANALYZER DISK ON MODULE WITH FIRMWARE	1
PP037030-S	UTILITY SPARE	Inventory	TELEDYNE ANNUAL MAINTENANCE KIT, T3XX	2
PP037040-S	UTILITY SPARE	Inventory	TELEDYNE ANNUAL MAINTENANCE KIT, T20X, T200U, & T200UP	2
PP037060-S	UTILITY SPARE	Inventory	STONEL AXIOM VALVE MONITOR	1
PP037070-S	UTILITY SPARE	Inventory	ROSEMOUNT WCB WATER LEVEL PRESSURE TRANSMITTER	1
PP037080-S	UTILITY SPARE	Inventory	ROSEMOUNT THERMOCOUPLE	2
PP037090-S	UTILITY SPARE	Inventory	ROSEMOUNT 5708 USB ADAPTER	1
PP037100-S	UTILITY SPARE	Inventory	REOTEMP BOILER 11 ASH DRAIN THERMOCOUPLE	1
PP037110-S	UTILITY SPARE	Inventory	RELIANCE HOSPITAL BOILER LWCO CONTROL RELAY MODULE	2
PP037120-S	UTILITY SPARE	Inventory	HACH CL17 TOTAL CHLORINE REAGENT SET	28
PP037130-S	UTILITY SPARE	Inventory	ENDRESS+HAUSER CERABAR M PRESSURE TRANSMITTER	1
PP037140-S	UTILITY SPARE	Inventory	CLARK-RELIANCE LEVEL PROBES	10
PP037150-S	UTILITY SPARE	Inventory	BOILER 11 BED THERMOWELL & THERMOCOUPLE	5
PP037160-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK BOILER 10 BUNKER LOW LEVEL PROBE	1
PP037170-S	UTILITY SPARE	Inventory	AIR MONITOR MASS-TRON CEM FLOW TRANSMITTER	1
PP037180-S	UTILITY SPARE	Inventory	MAC SOLENOID VALVE	2
PP037190-S	UTILITY SPARE	Inventory	EATON VICKERS BOILER 10 CLINKER GRINDER SOLENOID VALVE	1
PP037200-S	UTILITY SPARE	Inventory	ASCO 3/4" 2-WAY SOLENOID VALVE	1
PP037210-S	UTILITY SPARE	Inventory	ASCO REDHAT 1/8" 3-WAY SOLENOID VALVE	4
PP037220-S	UTILITY SPARE	Inventory	ASCO REDHAT 1/4" 2-WAY SOLENOID VALVE	2
PP037230-S	UTILITY SPARE	Inventory	DIAMOND POWER PACKING SET	2
PP037240-S	UTILITY SPARE	Inventory	DIAMOND POWER FRONT SPACER BUSHING	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
PP037250-S	UTILITY SPARE	Inventory	DIAMOND POWER FEED TUBE GASKET	2
PP037260-S	UTILITY SPARE	Inventory	GRAINGER T-STRAINER 1/4" LINE 50 MESH	6
PP037270-S	UTILITY SPARE	Inventory	SQUARE D SELECTOR SWITCH	11
PP037280-S	UTILITY SPARE	Inventory	SOR PRESSURE SWITCH	2
PP037290-S	UTILITY SPARE	Inventory	SCHNEIDER ELECTRIC CONTACTOR	4
PP037300-S	UTILITY SPARE	Inventory	PEPPERL + FUCHS SILO 2 CONVEYOR PROXIMITY SWITCH	1
PP037310-S	UTILITY SPARE	Inventory	PEPPERL + FUCHS SILO 2 CONVEYOR PROXIMITY SWITCH	1
PP037320-S	UTILITY SPARE	Inventory	PEPPERL + FUCHS SILO 2 CONVEYOR DIGITAL ISOLATOR	2
PP037330-S	UTILITY SPARE	Inventory	NAMCO LIMIT SWITCH LEVER	3
PP037340-S	UTILITY SPARE	Inventory	ASHCROFT 15 PSI PRESSURE SWITCH	1
PP037350-S	UTILITY SPARE	Inventory	AMETEK DREXELBROOK Z-TRON IV LEVEL SWITCH	1
PP037360-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SWITCH GASKETS	1
PP037370-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK LABELS	1
PP037380-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY TERMINAL BLOCK INSULATING SLEEVE	27
PP037390-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY SCREW CENTER JUMPERS	36
PP037400-S	UTILITY SPARE	Inventory	USA INDUSTRIES BOILER 11 STEAM DRUM TUBE PLUGS	8
PP037410-S	UTILITY SPARE	Inventory	KURI-TEC 1" HIGH PRESSURE PVC HOSE	1
PP037420-S	UTILITY SPARE	Inventory	1/4" POLYURETHANE TUBING 25FT	1
PP037430-S	UTILITY SPARE	Inventory	USA INDUSTRIES BOILER 11 SH HEADER TUBE PLUGS	8
PP037440-S	UTILITY SPARE	Inventory	KUNKLE BOILER 10 DSI INSTRUMENT AIR SAFETY RELIEF VALVE	1
PP037450-S	UTILITY SPARE	Inventory	FISHER VALVE CAGE	1
PP037460-S	UTILITY SPARE	Inventory	FISHER STEM PLUG	1
PP037470-S	UTILITY SPARE	Inventory	FISHER PISTON RING	1
PP037480-S	UTILITY SPARE	Inventory	FISHER 600PSI BOURDON TUBE BRONZE	1
PP037490-S	UTILITY SPARE	Inventory	ABZ 3" BUTTERFLY VALVE	1
PP037500-S	UTILITY SPARE	Inventory	ALLEN-BRADLEY COMMUNICATING CABLE	10
PP037510-S	UTILITY SPARE	Inventory	POWER SUPPLY CABLE 16/3 - 2.5'	4
PP037520-S	UTILITY SPARE	Inventory	BUSSMANN FAN CONTROL PANEL FUSE 250V 100A	6
PP037530-S	UTILITY SPARE	Inventory	DRC DONALDSON TORIT CARTRIDGE FILTERS	29
PP037540-S	UTILITY SPARE	Inventory	ROSEMOUNT HART TEMPERATURE TRANSMITTER	8
1	Chilled Water	Inventory	Motor	1
2	Chilled Water	Inventory	Motor	1
3	Chilled Water	Inventory	Motor	1
4	Chilled Water	Inventory	Motor	1
5	Chilled Water	Inventory	Motor	1
6	Chilled Water	Inventory	Motor	1
7	Chilled Water	Inventory	Motor	1
8	Chilled Water	Inventory	Motor	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
9	Chilled Water	Inventory	Motor	1
10	Chilled Water	Inventory	Motor	1
11	Chilled Water	Inventory	Motor	1
12	Chilled Water	Inventory	Dual-Lite LZ2 LED Emergency Light	2
13	Chilled Water	Inventory	Drainer Module Kit	1
14	Chilled Water	Inventory	Shop Vac Filters	4
15	Chilled Water	Inventory	2" HPT Tricon/E3 Transmitter	10
16	Chilled Water	Inventory	3" HPT Tricon/E3 Transmitter	6
17	Chilled Water	Inventory	6" HPT Tricon/E3 Transmitter	5
18	Chilled Water	Inventory	1" HPT Tricon/E3 Transmitter	6
19	Chilled Water	Inventory	1 1/2" HPT Tricon/E3 Transmitter	1
20	Chilled Water	Inventory	10" HPT Tricon/E3 Transmitter	2
21	Chilled Water	Inventory	8" HPT Tricon/E3 Transmitter	4
22	Chilled Water	Inventory	4" HPT Tricon/E3 Transmitter	3
23	Chilled Water	Inventory	1" T-10 Tricon/E3 Transmitter	1
24	Chilled Water	Inventory	2" Strainer	2
25	Chilled Water	Inventory	Compound Gauge	1
26	Chilled Water	Inventory	Thermostatic AV	1
27	Chilled Water	Inventory	Direct Mount Pilot Valve	1
28	Chilled Water	Inventory	Inverted Bucket	2
29	Chilled Water	Inventory	3" Strainer	1
30	Chilled Water	Inventory	PTI Filter Elements	6
31	Chilled Water	Inventory	3 HP Turbine	1
32	Chilled Water	Inventory	4 HP Turbine	1
33	Chilled Water	Inventory	SLP Water Pump Kit	1
34	Chilled Water	Inventory	4" Flanged Bronze Strainer for Meter	1
35	Chilled Water	Inventory	5" Face Thermometer with 12" Stem	4
36	Chilled Water	Inventory	5" Face Thermometer with 9" Stem	2
37	Chilled Water	Inventory	5" Face Thermometer with 12" Stem	1
38	Chilled Water	Inventory	5" Face Thermometer with 12" Stem	2
39	Chilled Water	Inventory	5" Face Thermometer with 12" Stem	1
40	Chilled Water	Inventory	5" Face Thermometer with 6" Stem	12
41	Chilled Water	Inventory	5" Face Thermometer with 4" Stem	5
42	Chilled Water	Inventory	5" Face Thermometer with 2" Stem	6
43	Chilled Water	Inventory	5" Face Thermometer with 2 1/2" Stem	2
44	Chilled Water	Inventory	5" Face Thermometer with 4" Stem	1
45	Chilled Water	Inventory	Glass Thermometer	2
46	Chilled Water	Inventory	2 1/2" Face Thermometer with 4" Stem	1
47	Chilled Water	Inventory	Temperature Probe	1
48	Chilled Water	Inventory	Acid Level Transmitter	1
49	Chilled Water	Inventory	Electric Actuator	2
50	Chilled Water	Inventory	EPI-36 Actuator	3
51	Chilled Water	Inventory	EPI-36 Actuator	2
52	Chilled Water	Inventory	EPI-36 Actuator	1
53	Chilled Water	Inventory	OM1 Actuator EPI2	1
54	Chilled Water	Inventory	OM1 Actuator EPI2	1
55	Chilled Water	Inventory	EPI-36 Actuator	1
56	Chilled Water	Inventory	EPI-36 Actuator	1
57	Chilled Water	Inventory	3-4" BI-Torq Valve Automation/Carbo Bond	1
58	Chilled Water	Inventory	2" BI-Torq Valve Automation/Carbo Bond	2
59	Chilled Water	Inventory	3-4" BI-Torq Valve Automation/Carbo Bond	1
60	Chilled Water	Inventory	2" BI-Torq Valve Automation/Carbo Bond	1
61	Chilled Water	Inventory	3" BI-Torq Valve Automation/Carbo Bond	1
62	Chilled Water	Inventory	4" BI-Torq Valve Automation/Carbo Bond	2
63	Chilled Water	Inventory	EPI-3 Actuator	9
64	Chilled Water	Inventory	EPI-3 Actuator	3
65	Chilled Water	Inventory	EPI-91 Actuator	1
66	Chilled Water	Inventory	EPI-6 Actuator	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
67	Chilled Water	Inventory	EPI-6 Actuator	2
68	Chilled Water	Inventory	EPI-50 Actuator	1
69	Chilled Water	Inventory	OM1 Actuator EPI2	1
70	Chilled Water	Inventory	Tyco EPI to EPI2 Coupling Conversion	1
71	Chilled Water	Inventory	Pneumatic Positioner	3
72	Chilled Water	Inventory	Control Circuit Transformer Open Type	1
73	Chilled Water	Inventory	Control Circuit Transformer Open Type	2
74	Chilled Water	Inventory	Steam Valve 1/8	2
75	Chilled Water	Inventory	Solenoid Valve 1/2	1
76	Chilled Water	Inventory	General Purpose Solenoid	2
77	Chilled Water	Inventory	Solenoid Valve Coil	1
78	Chilled Water	Inventory	Solenoid Valve Coil	1
79	Chilled Water	Inventory	Solenoid 2 Way Valve Coil	1
80	Chilled Water	Inventory	Solenoid 2 Way Valve Coil	1
81	Chilled Water	Inventory	Solenoid 3 Way Valve	1
82	Chilled Water	Inventory	Solenoid 2 Way Valve Coil	1
83	Chilled Water	Inventory	Solenoid Valve Spare Part Kit	2
84	Chilled Water	Inventory	Spare Parts Kit	2
85	Chilled Water	Inventory	Spare Parts Kit	2
86	Chilled Water	Inventory	Solenoid 3 Way Valve	2
87	Chilled Water	Inventory	Solenoid 2 Way Valve	3
88	Chilled Water	Inventory	Solenoid 3 Way Valve	3
89	Chilled Water	Inventory	3 Way Solenoid Coil	1
90	Chilled Water	Inventory	Solenoid Vale Rebuild Kit	1
91	Chilled Water	Inventory	Solenoid 2 Way Valve	1
92	Chilled Water	Inventory	Solenoid 2 Way Valve	1
93	Chilled Water	Inventory	Solenoid 3 Way Valve	1
94	Chilled Water	Inventory	Solenoid 3 Way Valve	1
95	Chilled Water	Inventory	3 Way Solenoid Coil	1
96	Chilled Water	Inventory	Rotary Range Spring Kit	1
97	Chilled Water	Inventory	Valve Positioner	1
98	Chilled Water	Inventory	Valve Positioner	1
99	Chilled Water	Inventory	Valve Positioner	1
100	Chilled Water	Inventory	Valve Positioner	1
101	Chilled Water	Inventory	Solenoid 2 Way Valve	2
102	Chilled Water	Inventory	Solenoid 4 Way Valve	1
103	Chilled Water	Inventory	Solenoid 2 Way Valve	1
104	Chilled Water	Inventory	Solenoid Valve Rebuild Kit	1
105	Chilled Water	Inventory	Solenoid Valve	1
106	Chilled Water	Inventory	Solenoid Valve Coil	1
107	Chilled Water	Inventory	Solenoid 2 Way Valve	7
108	Chilled Water	Inventory	Solenoid 2 Way Valve	5
109	Chilled Water	Inventory	Solenoid 2 Way Valve	4
110	Chilled Water	Inventory	Solenoid 3 Way Valve	2
111	Chilled Water	Inventory	Solenoid 3 Way Valve	1
112	Chilled Water	Inventory	Comair Rotron Axial Fan	4
113	Chilled Water	Inventory	Pneumatic Rack and Pinion Actuator	1
114	Chilled Water	Inventory	Pneumatic Actuator	1
115	Chilled Water	Inventory	Intellicon 4	2
116	Chilled Water	Inventory	Flow Sensor	2
117	Chilled Water	Inventory	Flash Card	1
118	Chilled Water	Inventory	Sight Glass	2
119	Chilled Water	Inventory	Sight Glass	1
120	Chilled Water	Inventory	Spring Loaded Holder	6
121	Chilled Water	Inventory	4 Wire Two-Circuit Pressure Controls	2
122	Chilled Water	Inventory	Free Flow Hydraulic Valve	1
123	Chilled Water	Inventory	Electric-Pneumatic Switch	3
124	Chilled Water	Inventory	Moisture Liquid Indicator	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
125	Chilled Water	Inventory	Pressure Gauge	2
126	Chilled Water	Inventory	Filter and Gasket Kit	5
127	Chilled Water	Inventory	3/8" SAE Flare Moisture and Liquid Indicator Valve	1
128	Chilled Water	Inventory	Gauge	1
129	Chilled Water	Inventory	Timer 4 min, 2 circuit	2
130	Chilled Water	Inventory	Timer 30 min	2
131	Chilled Water	Inventory	Power Relay	1
132	Chilled Water	Inventory	Power Relay	1
133	Chilled Water	Inventory	Power Relay	1
134	Chilled Water	Inventory	Power Relay	1
135	Chilled Water	Inventory	Power Relay	1
136	Chilled Water	Inventory	EPI-2 Actuator	0
137	Chilled Water	Inventory	Pressuretrol Controller	1
138	Chilled Water	Inventory	Timer	2
139	Chilled Water	Inventory	Current Transformer	2
140	Chilled Water	Inventory	Valve	1
141	Chilled Water	Inventory	Switch	4
142	Chilled Water	Inventory	Industrial Control Transformer	4
143	Chilled Water	Inventory	5" Face Thermometer with 4" Stem	1
144	Chilled Water	Inventory	Brush Door Sweep	3
145	Chilled Water	Inventory	E-Coder R900i	1
146	Chilled Water	Inventory	Head Mount Temperature Transmitter	4
147	Chilled Water	Inventory	3 in. HP Turbine	1
148	Chilled Water	Inventory	2 1/2W EB Sleeve	1
149	Chilled Water	Inventory	2 1/2W FHUB	1
150	Chilled Water	Inventory	ControlLogix Ethernet Communication Module	6
151	Chilled Water	Inventory	Gasket Bolt Circle 8000 6.75"x4.875"x1/8"	12
152	Chilled Water	Inventory	True Union Ball Valve Socket	2
153	Chilled Water	Inventory	Digital Current Switch	10
154	Chilled Water	Inventory	Single Element RTD	9
155	Chilled Water	Inventory	Pneumatic Tire and Wheel - 10in x 4.10/3.50-4	4
156	Chilled Water	Inventory	Gasket Bolt Circle 7800 8.25"x5.8125"x1/64"	8
157	Chilled Water	Inventory	Gasket Bolt Circle 7800 6.906"x4.812"x1/64"	8
158	Chilled Water	Inventory	Gasket Bolt Circle 7500 10.875"x7.812"x1/32"	6
159	Chilled Water	Inventory	RTD	4
160	Chilled Water	Inventory	Pressure Transmitter	2
161	Chilled Water	Inventory	30:1 Gear Operator without lever	1
162	Chilled Water	Inventory	6 in. Thermowell 316SS	10
163	Chilled Water	Inventory	2.5 in. Thermowell 316SS	7
164	Chilled Water	Inventory	28 pc Universal Wood Gun Cleaning Box	2
165	Chilled Water	Inventory	.22 Caliber Rifle Bore Brush	7
166	Chilled Water	Inventory	Gear Operator 5-6 w/ Bore Key	1
167	Chilled Water	Inventory	ABZ 397/815 Valve	2
168	Chilled Water	Inventory	Butterfly Valve	1
169	Chilled Water	Inventory	2" Butterfly Valve	1
170	Chilled Water	Inventory	Gasket Bolt Circle 8000 43.5"x39"x1/8"	6
171	Chilled Water	Inventory	Connection Head	4
172	Chilled Water	Inventory	4 Way Valve and Solenoid	2
173	Chilled Water	Inventory	Digital Slave Module	1
174	Chilled Water	Inventory	Digital Slave Module	1
175	Chilled Water	Inventory	Terminal Unit	1
176	Chilled Water	Inventory	Serial Port Module	0
177	Chilled Water	Inventory	V-Belt	6
178	Chilled Water	Inventory	Fluorescent Lamps	26
179	Chilled Water	Inventory	Plumbing 2400e w/pH, Conductivity, and ORP	1
180	Chilled Water	Inventory	Split Bushing	2
181	Chilled Water	Inventory	Copper Coupling with Stop	3
182	Chilled Water	Inventory	Ball Bearing	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
183	Chilled Water	Inventory	True Union Ball Valve Socket	2
184	Chilled Water	Inventory	Tricon/E/E2/E3 Transmitter	1
185	Chilled Water	Inventory	4" Strainer	1
186	Chilled Water	Inventory	4 HP Turbine	1
187	Chilled Water	Inventory	Allen Bradly Fuse Holder	7
188	Chilled Water	Inventory	Power Supply	2
189	Chilled Water	Inventory	Keyboard PS/2 to AT Adaptor	3
190	Chilled Water	Inventory	Male Screw Retainers	1
191	Chilled Water	Inventory	AT Adapter	1
192	Chilled Water	Inventory	Serial Port Module	1
193	Chilled Water	Inventory	Termination Unit	2
194	Chilled Water	Inventory	Network External Alarm Cable	1
195	Chilled Water	Inventory	Termination Unit	2
196	Chilled Water	Inventory	Termination Unit	1
197	Chilled Water	Inventory	Termination Unit	1
198	Chilled Water	Inventory	Termination Unit	1
199	Chilled Water	Inventory	AC Fan	1
200	Chilled Water	Inventory	ABB Automation System Disks	22
201	Chilled Water	Inventory	Redundancy Cable	1
202	Chilled Water	Inventory	Loop Interface Cable	2
203	Chilled Water	Inventory	NTMF01 TO NTCS01 Cable	3
204	Chilled Water	Inventory	NTMF01 TO NTCS01 Cable	1
205	Chilled Water	Inventory	Clear Signal Cable	2
206	Chilled Water	Inventory	Genius I/O Hand Held Monitor	1
207	Chilled Water	Inventory	Configuration Tuning Terminal	1
208	Chilled Water	Inventory	ProPressG Coupling with Stop	4
209	Chilled Water	Inventory	D Sub EMI Junction Shell	1
210	Chilled Water	Inventory	Control	1
211	Chilled Water	Inventory	Power Relay	1
212	Chilled Water	Inventory	O Ring	9
213	Chilled Water	Inventory	Filter Element	6
214	Chilled Water	Inventory	Lubricup	2
215	Chilled Water	Inventory	Copper Reducer	1
216	Chilled Water	Inventory	Copper 90 Degree Elbow	1
217	Chilled Water	Inventory	Press Ball Valve	2
218	Chilled Water	Inventory	ProPressG Coupling with Stop	1
219	Chilled Water	Inventory	Female Brass Coupler	2
220	Chilled Water	Inventory	2" Strainer	1
221	Chilled Water	Inventory	3" Strainer	1
222	Chilled Water	Inventory	6" Strainer	1
223	Chilled Water	Inventory	10" Strainer	1
224	Chilled Water	Inventory	Gasket Bonnet #8000 5.125"x3.50"x.75"x1/16"	12
225	Chilled Water	Inventory	Gasket Bonnet #8000 8.625"x3.062"x.875"x1/16"	12
226	Chilled Water	Inventory	Gasket Bonnet #8000 11.437"x4.125"x.875"x1/16"	12
227	Chilled Water	Inventory	Gasket Bonnet #8000 18.25" 6.75"x1.125"x1/16"	12
228	Chilled Water	Inventory	Gasket, Bonnet #8000 10.00"x3.25"x1.125"x1/16"	12
229	Chilled Water	Inventory	Gasket, Bonnet #8000 13.375"x4.437"x1.125"x1/16"	12
230	Chilled Water	Inventory	Mechanical Seal	2
231	Chilled Water	Inventory	Watt Transducer	2
232	Chilled Water	Inventory	Watt Transducer	3
233	Chilled Water	Inventory	EPI-2 Actuator	1
234	Chilled Water	Inventory	Tricon E Transmitter	2
235	Chilled Water	Inventory	Fuse 250A 690V	3
236	Chilled Water	Inventory	4" General Purpose Compound Gauge	1
237	Chilled Water	Inventory	4" Liquid Filled Gauge	2
238	Chilled Water	Inventory	4" Liquid Filled Gauge	2
239	Chilled Water	Inventory	3-1/2" General Purpose Compound Gauge	1
240	Chilled Water	Inventory	4" General Purpose Compound Gauge	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
241	Chilled Water	Inventory	2-1/2" Low Pressure Gauge	1
242	Chilled Water	Inventory	2-1/2" General Purpose Compound Gauge	2
243	Chilled Water	Inventory	2.5" Liquid filled Gauge	2
244	Chilled Water	Inventory	2.5" Liquid Filled Gauge	1
245	Chilled Water	Inventory	2.5" Liquid Filled Gauge	2
246	Chilled Water	Inventory	2-1/2" Liquid Filled Gauge	4
247	Chilled Water	Inventory	2-1/2" Gauge	1
248	Chilled Water	Inventory	2-1/2" General Purpose Compound Gauge	1
249	Chilled Water	Inventory	2-1/2" Liquid Filled Pressure Gauge	1
250	Chilled Water	Inventory	2" Liquid Filled Gauge	1
251	Chilled Water	Inventory	2" Gauge, Panel Mount	1
252	Chilled Water	Inventory	2" Gauge	1
253	Chilled Water	Inventory	2" General Purpose Panel Mount Pressure Gauge	1
254	Chilled Water	Inventory	Y Strainer	2
255	Chilled Water	Inventory	Hydrometer	1
256	Chilled Water	Inventory	Radar Transmitter	0
257	Chilled Water	Inventory	Cover Gasket	6
258	Chilled Water	Inventory	PCA Kit	2
259	Chilled Water	Inventory	PCA Kit	1
260	Chilled Water	Inventory	PCA Kit	3
261	Chilled Water	Inventory	Valve Rebuild Kit	1
262	Chilled Water	Inventory	Solenoid Valve	1
263	Chilled Water	Inventory	Split-Core Current Switch	6
264	Chilled Water	Inventory	Industrial Liquid Flow Switch	2
265	Chilled Water	Inventory	Current Sensing Relay	2
266	Chilled Water	Inventory	Split-Core Current Switch	1
267	Chilled Water	Inventory	Solid-Core Current Switch with Relay	1
268	Chilled Water	Inventory	Vibration Switch	1
269	Chilled Water	Inventory	Vibration Switch	3
270	Chilled Water	Inventory	Vibration Switch	3
271	Chilled Water	Inventory	Switch/Terminal Installation Kit	1
272	Chilled Water	Inventory	Switchgage	3
273	Chilled Water	Inventory	Vibration Switch	2
274	Chilled Water	Inventory	Electric Actuator	1
275	Chilled Water	Inventory	Actuator	1
276	Chilled Water	Inventory	Actuator	1
277	Chilled Water	Inventory	O-ring	6
278	Chilled Water	Inventory	O-ring	6
279	Chilled Water	Inventory	Valve Kit	9
280	Chilled Water	Inventory	Strainer Gasket	4
281	Chilled Water	Inventory	EPI-Torc Actuator	1
282	Chilled Water	Inventory	EPI 2 Mod. 6 Actuator	0
283	Chilled Water	Inventory	EPI 2 Mod. E13 Actuator	1
284	Chilled Water	Inventory	EPI 2 Mod. E13 Actuator	1
285	Chilled Water	Inventory	4 in. PVC 1/8 Perf Basket Replacement	2
286	Chilled Water	Inventory	Simplex BS 2.5" THD PVC 1/8" Perf	1
287	Chilled Water	Inventory	Sensor	3
288	Chilled Water	Inventory	Personal Fall Limiter	1
289	Chilled Water	Inventory	MiniLite Fall Limiter	1
290	Chilled Water	Inventory	Steam Trap	1
291	Chilled Water	Inventory	Halogen Gas Monitor	1
292	Chilled Water	Inventory	RDM-800	1
293	Chilled Water	Inventory	Stackable Beacon Lighting System	2
294	Chilled Water	Inventory	Corrosion Resistant Coupler	1
295	Chilled Water	Inventory	3' Tuflex Polyester Roundsling	3
296	Chilled Water	Inventory	1/4" male NPT	2
297	Chilled Water	Inventory	Solenoid and air controlled 2,3, and 4 way valves, rebuild kits/coils	1
298	Chilled Water	Inventory	EPI2 Mod e171 Actuators	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
299	Chilled Water	Inventory	Cover Gasket	1
300	Chilled Water	Inventory	Valve Rebuild Kit	1
301	Chilled Water	Inventory	Repair Kit	1
302	Chilled Water	Inventory	Pressure Reducing Regulator	4
303	Chilled Water	Inventory	2 HP Turbine	2
304	Chilled Water	Inventory	Rechargeable Battery	3
305	Chilled Water	Inventory	Rechargeable Battery	1
306	Chilled Water	Inventory	Air/ Oil Separator	1
307	Chilled Water	Inventory	Spin-On Lube Filter	1
308	Chilled Water	Inventory	Air Filter Element	1
309	Chilled Water	Inventory	External Line End Dust Filter	10
310	Chilled Water	Inventory	Utility Pump	2
311	Chilled Water	Inventory	Cooling Tower Nozzle	13
312	Chilled Water	Inventory		
313	Chilled Water	Inventory	V-Belt	1
314	Chilled Water	Inventory	V-Belt	1
315	Chilled Water	Inventory	Tethered Dust Cover	12
316	Chilled Water	Inventory	Eyewash Sprayhead	1
317	Chilled Water	Inventory	Cardstock Tags	100
318	Chilled Water	Inventory	Eye/ Face Wash Head Assembly	1
319	Chilled Water	Inventory	Eyewash Yoke Cap Plug	2
320	Chilled Water	Inventory	Stem Pipe Assembly	6
321	Chilled Water	Inventory	Sprayhead	6
322	Chilled Water	Inventory	Eyewash Yoke	1
323	Chilled Water	Inventory	3/8" Pipe Plug	2
324	Chilled Water	Inventory	ST Series Coupler	1
325	Chilled Water	Inventory	Oil Filter	1
326	Chilled Water	Inventory	Air Filter Replacement	1
327	Chilled Water	Inventory	Pressure Gauge	2
328	Chilled Water	Inventory	Separator Lid Torque	1
329	Chilled Water	Inventory	Spectra RMS Circuit Breaker	1
330	Chilled Water	Inventory	Analog Output Module	1
331	Chilled Water	Inventory	Series 90*-30 Analog Output Module	2
332	Chilled Water	Inventory	Analog Output Module	1
333	Chilled Water	Inventory	Series 90*-30 Analog Output Module	1
334	Chilled Water	Inventory	Analog Output Module	1
335	Chilled Water	Inventory	Series 90-30 CPU Unit W/ Ethernet Comm	2
336	Chilled Water	Inventory	Series 90-30 Power Supply	3
337	Chilled Water	Inventory	PacSystem Input Module	1
338	Chilled Water	Inventory	Expansion Bus Termination Plug	3
339	Chilled Water	Inventory	Adapter Bracket	1
340	Chilled Water	Inventory	Cable Adapter	1
341	Chilled Water	Inventory	Auxiliary Battery Module	1
342	Chilled Water	Inventory	PacSystem Input Module	1
343	Chilled Water	Inventory	Redundancy CPU	1
344	Chilled Water	Inventory	Redundancy CPU	1
345	Chilled Water	Inventory	Ethernet Module	2
346	Chilled Water	Inventory	Ethernet Module	1
347	Chilled Water	Inventory	CM-2 Circuit Board	1
348	Chilled Water	Inventory	Base 10-Slot Remote	3
349	Chilled Water	Inventory	Base 10-Slot	3
350	Chilled Water	Inventory	RX3i 40W Power Supply	2
351	Chilled Water	Inventory	Isolated RTD Input Module	1
352	Chilled Water	Inventory	Analog Input Module	2
353	Chilled Water	Inventory	300W Power Supply	1
354	Chilled Water	Inventory	RX7i Standalone Ethernet Module	1
355	Chilled Water	Inventory	RX7i Redundant Me Xchange	1
356	Chilled Water	Inventory	AC Axial Fan	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
357	Chilled Water	Inventory	RX7i 9-Slot Rear Rack Mount	1
358	Chilled Water	Inventory	Series 90-30 Power Supply	1
359	Chilled Water	Inventory	Explorer Bearing	1
360	Chilled Water	Inventory	Explorer Bearing	2
361	Chilled Water	Inventory	Solid-Braid Nylon Rope	1
362	Chilled Water	Inventory	MZ-RD Remote Display	1
363	Chilled Water	Inventory	Rosemount Coplanar Transmitter	2
364	Chilled Water	Inventory	Circuit Breaker	3
365	Chilled Water	Inventory	Subbase	7
366	Chilled Water	Inventory	Line Voltage Thermostat	2
367	Chilled Water	Inventory	Weatherproof Fixture	4
368	Chilled Water	Inventory	Weatherproof Lighting Globe	4
369	Chilled Water	Inventory	Oilers	3
370	Chilled Water	Inventory	Garlock 2-1/2" 8000 rotary 316-vit.-crb.-hast.	2
371	Chilled Water	Inventory	Garlock 8000 3" shaft size	1
372	Chilled Water	Inventory	Potential Transformer	3
373	Chilled Water	Inventory	Circuit Breaker	2
374	Chilled Water	Inventory	Motor Circuit Protector	1
375	Chilled Water	Inventory	Push Button Manual Motor Starter	1
376	Chilled Water	Inventory	Push Button Manual Motor Starter	1
377	Chilled Water	Inventory	Contact Kit	3
378	Chilled Water	Inventory	Replacement Transformer	2
379	Chilled Water	Inventory	Contact Kit	7
380	Chilled Water	Inventory	Contact Kit	5
381	Chilled Water	Inventory	Overload Heater Element	4
382	Chilled Water	Inventory	Overload Heater Element	3
383	Chilled Water	Inventory	Overload Heater Element	5
384	Chilled Water	Inventory	Thermal Unit	10
385	Chilled Water	Inventory	Thermal Unit	4
386	Chilled Water	Inventory	Thermal Unit	1
387	Chilled Water	Inventory	Thermal Unit	1
388	Chilled Water	Inventory	Thermal Unit	1
389	Chilled Water	Inventory	Thermal Unit	2
390	Chilled Water	Inventory	Thermal Unit	2
391	Chilled Water	Inventory	Thermal Unit	1
392	Chilled Water	Inventory	Thermal Unit	1
393	Chilled Water	Inventory	Thermal unit	2
394	Chilled Water	Inventory	Thermal unit	1
395	Chilled Water	Inventory	Gasket	8
396	Chilled Water	Inventory	Gasket	4
397	Chilled Water	Inventory	Steam Trap	2
398	Chilled Water	Inventory	Suction Diffuser	2
399	Chilled Water	Inventory	Flexible Element	3
400	Chilled Water	Inventory	Steam Trap	1
401	Chilled Water	Inventory	Steam Trap	1
402	Chilled Water	Inventory	Steam Trap	2
403	Chilled Water	Inventory	Steam Trap	1
404	Chilled Water	Inventory	Steam Trap	1
405	Chilled Water	Inventory	Steam Trap	1
406	Chilled Water	Inventory	Steam Trap	1
407	Chilled Water	Inventory	Contact Kit	9
408	Chilled Water	Inventory	nozzle assembly tower 5/6 WO 18-536108	1
409	Chilled Water	Inventory	input:120VAC, output:4-20mA ambient temperature range -40-71	2
410	Chilled Water	Inventory	V-Belt Pulley	1
411	Chilled Water	Inventory	Replacement Contact Kit	1
412	Chilled Water	Inventory	isolation transformer PRI 120V 60Hz, 110V 50Hz, SEC	1
413	Chilled Water	Inventory	Replacement Contact Kit	1
414	Chilled Water	Inventory	G12 P13056 SNC 6-8240	2

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
415	Chilled Water	Inventory	115V 60Hz	1
416	Chilled Water	Inventory	NEMA size 2 class: 8536, type: SD01, form: SA, Series: A, polyphase rating	1
417	Chilled Water	Inventory	Mounting Rating Plug	1
418	Chilled Water	Inventory	replacment transformer assembly for size 6 contactors/starters	1
419	Chilled Water	Inventory	Split Sleeve Coupling Insert	2
420	Chilled Water	Inventory	contactor magnets	2
421	Chilled Water	Inventory	seal shaft size 1.0	1
422	Chilled Water	Inventory	seal shaft size 1.5	1
423	Chilled Water	Inventory	seal shaft size .8	1
424	Chilled Water	Inventory	mechanical seal	1
425	Chilled Water	Inventory	Tire Coupling Hub	1
426	Chilled Water	Inventory	valve body 3/4" full port 2 way stem up open 7.5CV brass trim with disc,	1
427	Chilled Water	Inventory	bilt-rite seal 1 3/4" size type 1	2
428	Chilled Water	Inventory	seal .8	1
429	Chilled Water	Inventory	seal .1/32mm	1
430	Chilled Water	Inventory	stationry seat type:O-ring seat material NI resist	1
431	Chilled Water	Inventory	seal but conhagen repaired	1
432	Chilled Water	Inventory	needle valve	2
433	Chilled Water	Inventory	stationary seat type : O-ring seat, material: NI resist, shaft size: 3"	1
434	Chilled Water	Inventory	.8/25mm	1
435	Chilled Water	Inventory	9/28mm	1
436	Chilled Water	Inventory	used tower fan	1
437	Chilled Water	Inventory	coupling for NCWP	1
438	Chilled Water	Inventory	tower fan coupler orange	1
439	Chilled Water	Inventory	Flexible Element	1
440	Chilled Water	Inventory	type:123, 2.375, 60mm	1
441	Chilled Water	Inventory	glass pipes	5
442	Chilled Water	Inventory	Hydraulic valve actuator 2 position 120V, 50/60Hz	1
443	Chilled Water	Inventory	Blower	5
444	Chilled Water	Inventory	element heater 750Watt, 120V	1
445	Chilled Water	Inventory	Expansion Joint	2
446	Chilled Water	Inventory	Oilers	1
447	Chilled Water	Inventory	Electric Actuator	1
448	Chilled Water	Inventory	capsuhelic portable kit	1
449	Chilled Water	Inventory	12" 150ASME flexite super B16.20	5
450	Chilled Water	Inventory	10" 150ASME B16.20	4
451	Chilled Water	Inventory	8" 300ASME	2
452	Chilled Water	Inventory	8" 300ASME B16.20	1
453	Chilled Water	Inventory	8" 150ASME B16.20	2
454	Chilled Water	Inventory	8 1/2x9 1/2x.125	3
455	Chilled Water	Inventory	4" 150ASME	10
456	Chilled Water	Inventory	3" 3-4-600ASME B16.20 flexicarb	6
457	Chilled Water	Inventory	3" 150ASME	4
458	Chilled Water	Inventory	4" 600ASME	6
459	Chilled Water	Inventory	4" 300ASME	6
460	Chilled Water	Inventory	flexite super 6" 300ASME	4
461	Chilled Water	Inventory	size:Large 10oz. Corded cotton band top gloves	7
462	Chilled Water	Inventory	a box worth of corks	a ton
463	Chilled Water	Inventory	Safety Glasses	32
464	Chilled Water	Inventory	helmets (for tour)	
465	Chilled Water	Inventory	6" gasket	1
466	Chilled Water	Inventory	4" SV neoprene ASTM quick-tite mold 4 cav. 3	1
467	Chilled Water	Inventory	NW steam strainer	2
468	Chilled Water	Inventory	Strainer	1
469	Chilled Water	Inventory	LED Lighting Fixture	1
470	Chilled Water	Inventory	Round Axial Fan	2
471	Chilled Water	Inventory	standard 1/4Lb carbowrap primer paste	49
472	Chilled Water	Inventory	L Safety Vest	6

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
473	Chilled Water	Inventory	Ear Muffs	4
474	Chilled Water	Inventory	Dual pressure manual reset high side SPST 36" CAP, 1/4" nut, 20"/100 PS	1
475	Chilled Water	Inventory	Modulating Valve	1
476	Chilled Water	Inventory	Regulating Valve	1
477	Chilled Water	Inventory	Regulating Valve	1
478	Chilled Water	Inventory	Door Holder	12
479	Chilled Water	Inventory	mech b2/b3, f+t, 7/32, 15PSI	4
480	Chilled Water	Inventory	PCA Repair Kit	1
481	Chilled Water	Inventory	PCA Repair Kit	1
482	Chilled Water	Inventory	kit float and screw f+t	1
483	Chilled Water	Inventory	valve mechanism kit B3/B32-250	1
484	Chilled Water	Inventory	3/4" union gaskets	bag
485	Chilled Water	Inventory	AC Fan	3
486	Chilled Water	Inventory	industrial pressure switch set 40-46PSI, DPDT contacts, industrial differe	1
487	Chilled Water	Inventory	AC Fan	3
488	Chilled Water	Inventory	Fan	1
489	Chilled Water	Inventory	tower 1/2 blowdown strainer	1
490	Chilled Water	Inventory	Steam Trap	1
491	Chilled Water	Inventory	WCB 32	1
492	Chilled Water	Inventory	Coupling	1
493	Chilled Water	Inventory	Coupling	1
494	Chilled Water	Inventory	Coupling	2
495	Chilled Water	Inventory	Coupling	2
496	Chilled Water	Inventory	Coupling	1
497	Chilled Water	Inventory	Steam Trap	1
498	Chilled Water	Inventory	HP: 1, Voltz: 115/250, Amps: 14/7, RPM: 3450	1
499	Chilled Water	Inventory	steam trap	3
500	Chilled Water	Inventory	valve size 374, model 61, seat SST, max pressure: 300	1
501	Chilled Water	Inventory	valve size 1-1/2, model 50, seat SST, max pressure: 300	1
502	Chilled Water	Inventory	steam trap 812	1
503	Chilled Water	Inventory	steam trap 813	1
504	Chilled Water	Inventory	steam trap	1
505	Chilled Water	Inventory	2" NE-C 200PSI	1
506	Chilled Water	Inventory	Pressure Regulator	1
507	Chilled Water	Inventory	Pressure Regulator	1
508	Chilled Water	Inventory	water filter housing	2
509	Chilled Water	Inventory	air compressor part	1
510	Chilled Water	Inventory	Oil mist eliminator	1
511	Chilled Water	Inventory	separator/reservoir tank w/oil mist eliminator	1
512	Chilled Water	Inventory	filter for compressed air	3
513	Chilled Water	Inventory	pump	1
514	Chilled Water	Inventory	industrial motor	1
515	Chilled Water	Inventory	ball float trap	1
516	Chilled Water	Inventory	XL Safety Vest	6
517	Chilled Water	Inventory	2X/3X Safety Vest	3
518	Chilled Water	Inventory	45' Auto-Feed Hose Assembly	1
519	Chilled Water	Inventory	Actuator	6
520	Chilled Water	Inventory	Actuator Body	4
521	Chilled Water	Inventory	Nylon Brush	5
522	Chilled Water	Inventory	Nylon Brush	5
523	Chilled Water	Inventory	Nylon Brush	5
524	Chilled Water	Inventory	Nylon Brush	5
525	Chilled Water	Inventory	Nylon Brush	30
526	Chilled Water	Inventory	Nylon Brush	5
527	Chilled Water	Inventory	Nylon Brush	5
528	Chilled Water	Inventory	Nylon Brush	5
529	Chilled Water	Inventory	Nylon Brush	5
530	Chilled Water	Inventory	Nylon Brush	5

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
531	Chilled Water	Inventory	Nylon Brush	5
532	Chilled Water	Inventory	Nylon Brush	5
533	Chilled Water	Inventory	Nylon Brush	5
534	Chilled Water	Inventory	Nylon Brush	5
535	Chilled Water	Inventory	Nylon Brush	5
536	Chilled Water	Inventory	Nylon Brush	5
537	Chilled Water	Inventory	Nylon Brush	5
538	Chilled Water	Inventory	Nylon Brush	5
539	Chilled Water	Inventory	Nylon Brush	5
540	Chilled Water	Inventory	Nylon Brush	5
541	Chilled Water	Inventory	Tool Box With 5 Trays	1
542	Chilled Water	Inventory	Antifreeze With Adapter	1
543	Chilled Water	Inventory	Piston Rod	4
544	Chilled Water	Inventory	Spring	5
545	Chilled Water	Inventory	GFCI Power Cord	0
546	Chilled Water	Inventory	Actuator Stop	2
547	Chilled Water	Inventory	Start Capacitor	1
548	Chilled Water	Inventory	Rear Adaptor	4
549	Chilled Water	Inventory	2mm Stainless Steel Ball	48
550	Chilled Water	Inventory	Inlet Feed Tube	11
551	Chilled Water	Inventory	Microswitch	2
552	Chilled Water	Inventory	On/Off Switch	5
553	Chilled Water	Inventory	Motor Reversing Contractor	3
554	Chilled Water	Inventory	Drive Pin	0
555	Chilled Water	Inventory	Gear Pin	4
556	Chilled Water	Inventory	Side Plate	2
557	Chilled Water	Inventory	Breakaway Couple	10
558	Chilled Water	Inventory	Trigger	1
559	Chilled Water	Inventory	Cup Point Set Screw	1
560	Chilled Water	Inventory	Motor	1
561	Chilled Water	Inventory	Pump	1
562	Chilled Water	Inventory	Particulate Filter	8
563	Chilled Water	Inventory	1/8"-27 Brass Hydraulic Coupler Body	6
564	Chilled Water	Inventory	1/8"-27 Brass Hydraulic Coupler Nipple	6
565	Chilled Water	Inventory	Jaw Coupling	1
566	Chilled Water	Inventory	Spider	1
567	Chilled Water	Inventory	Exit Feed Tube	1
568	Chilled Water	Inventory	3/4" Liquidtight Replacements	50
569	Chilled Water	Inventory	Pin Screw Connector	1
570	Chilled Water	Inventory	Socket Flange Mounting	1
571	Water Plant	Inventory	NeptuneStrainer4"	4
572	Water Plant	Inventory	NeptuneStrainer6"	1
573	Water Plant	Inventory	NeptuneStrainer3"	4
574	Water Plant	Inventory	NeptuneStrainer2"	3
575	Water Plant	Inventory	NeptuneStrainer2" Unboxed	1
576	Water Plant	Inventory	BoltNutPackzHardware11/2	6
577	Water Plant	Inventory	noneHardwareLegs for shelving	8
578	Water Plant	Inventory	noneHardwareFile cabinet pieces Long	12
579	Water Plant	Inventory	noneHardwareFile cabinets pieces short	22
580	Water Plant	Inventory	noneHardwareYellow shelving bars	12
581	Water Plant	Inventory	noneHardwareScaffolding/shelving sides	3
582	Water Plant	Inventory	NeptuneUME4" Compound	1
583	Water Plant	Inventory	NeptunePro Read Register4" HPT	7
584	Water Plant	Inventory	NeptunePro Read Register4" TT	12
585	Water Plant	Inventory	NeptunePro Read Register6" TT	8
586	Water Plant	Inventory	NeptunePro Read Register3" HPT	10
587	Water Plant	Inventory	NeptunePro Read Register3" TT	4
588	Water Plant	Inventory	NeptunePro Read Register2" T-10	9

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
589	Water Plant	Inventory	NeptunePro Read Register1 1/2-2" HPT	8
590	Water Plant	Inventory	NeptunePro Read Register1 1/2" T-10	14
591	Water Plant	Inventory	NeptunePro Read Register1" T-10	9
592	Water Plant	Inventory	NeptunePro Read Register5/8" T-10	19
593	Water Plant	Inventory	NeptuneTricon E Register5/8" T019	4
594	Water Plant	Inventory	NeptuneTricon E Register3/4" T-10	3
595	Water Plant	Inventory	NeptuneTricon E Register1 1/2" T-10	1
596	Water Plant	Inventory	NeptuneTricon E Register1" T-10	5
597	Water Plant	Inventory	NeptuneTricon E Register2" T-10	4
598	Water Plant	Inventory	NeptuneTricon E Register2" HPT	-1
599	Water Plant	Inventory	NeptuneTricon E Register2" TT	4
600	Water Plant	Inventory	NeptuneTricon E Register3" TT	4
601	Water Plant	Inventory	NeptuneTricon E Register3" HPT	2
602	Water Plant	Inventory	NeptuneTricon E Register4" TT	1
603	Water Plant	Inventory	NeptuneTricon E Register6" TT	5
604	Water Plant	Inventory	JandaMotorGrey	1
605	Water Plant	Inventory	nonePumpBlue and for the whirlpool pump	1
606	Water Plant	Inventory	nonePumpGray/Blue	1
607	Water Plant	Inventory	US MotorsMotorLarge Grey US Motors 30 hp	1
608	Water Plant	Inventory	noneMotorLow Service grey motor 15 horsepower	1
609	Water Plant	Inventory	noneGearSedimentation Basin Rake Gear	0
610	Water Plant	Inventory	KennedyValveRed butterfly valve, 25in/17 15/16	4
611	Water Plant	Inventory	noneHoseBlue R:5 3/8	1
612	Water Plant	Inventory	noneEINCO EquipmentRed and Yellow 27.5/17.625	1
613	Water Plant	Inventory	noneMotorLarge, Yellow. 100 HP, 460V,	1
614	Water Plant	Inventory	noneHoseSmall, Blue	5
615	Water Plant	Inventory	noneHoseSmall, Red	1
616	Water Plant	Inventory	nonePumpSilver Jordan Well pump	1
617	Water Plant	Inventory	noneFlangeLarge, Pale Blue	1
618	Water Plant	Inventory	noneFlangeMedium, black	1
619	Water Plant	Inventory	noneFlangeSmall, pale blue	1
620	Water Plant	Inventory	noneFlangeSmall, Black	1
621	Water Plant	Inventory	noneFlangeVarious Flanged pieces	4
622	Water Plant	Inventory	noneValveLarge red check valve	1
623	Water Plant	Inventory	noneValveDark yellow check valve	1
624	Water Plant	Inventory	noneMiscellaneous100 lb white bags filter, industrial sands	7
625	Water Plant	Inventory	ChenvironMiscellaneousBlack carbon bag	1
626	Water Plant	Inventory	noneMiscellaneous225 S NA white ion exchange risen bags	6
627	Water Plant	Inventory	Sanitec IncMiscellaneousWhite bucket	1
628	Water Plant	Inventory	noneValveRes 2.00 liron valve	1
629	Water Plant	Inventory	noneMiscellaneousBoxes long white tubing	2
630	Water Plant	Inventory	noneMotorGrety grundfos 50 hp 208-230/440-480 volts	1
631	Water Plant	Inventory	noneHoseWhite hose component	2
632	Water Plant	Inventory	noneMotorlarge yellow, 250 HP, 460 Volts	1
633	Water Plant	Inventory	noneMiscellaneouslarge box of insulation	1
634	Water Plant	Inventory	noneValveGF Ball check valve	3
635	Water Plant	Inventory	Barnstead/ThermolyneControllerIndicator Controller	0
636	Water Plant	Inventory	noneMiscellaneousGrey electric wire	1
637	Water Plant	Inventory	Plast-O-MaticValvePlast-O-Matic valves	3
638	Water Plant	Inventory	ASCAValve1 1/2" solenoid valve	1
639	Water Plant	Inventory	HoneywallValvePressure Regulation valve	1
640	Water Plant	Inventory	ParkerValve1 NPT Solenoid valve	1
641	Water Plant	Inventory	noneMiscellaneoussmall white parts	7
642	Water Plant	Inventory	nonePipesmall park grey pipe components	11
643	Water Plant	Inventory	noneMiscellaneoussilver propeller shaped component	1
644	Water Plant	Inventory	noneMiscellaneouslight grey rectangular part	2
645	Water Plant	Inventory	noneMiscellaneousgrey bin level indicator	1
646	Water Plant	Inventory	noneMiscellaneous"Assembled by Team" Metal part	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
647	Water Plant	Inventory	noneMiscellaneousTime delay timer, small box	2
648	Water Plant	Inventory	BarksdaleValveDirectional control valve	1
649	Water Plant	Inventory	noneValve5/8" 0.0 angle valve	2
650	Water Plant	Inventory	ASCAValveRed hat valves air controlled 2,3,4 way	12
651	Water Plant	Inventory	+GF+Valve1/2" DN 15 Ball check valve	5
652	Water Plant	Inventory	+GF+Valve3/4" DN 20 ball check valve	3
653	Water Plant	Inventory	+GF+Valveball valve/true union socket and thread	1
654	Water Plant	Inventory	noneValve1" Ball valve	5
655	Water Plant	Inventory	CulliganMiscellaneousInternational Liquid	3
656	Water Plant	Inventory	noneMiscellaneousPassive skimmers	2
657	Water Plant	Inventory	GrundfosMiscellaneousGrundfus kit installation	1
658	Water Plant	Inventory	noneMiscellaneousPW455 black calibration component	2
659	Water Plant	Inventory	AMETEKGauge1-100 psi U.S gauge	1
660	Water Plant	Inventory	noneGauge1-15 psi U.S gauge	3
661	Water Plant	Inventory	USA BlueBookGauge0-100 psi, 0-1205 GPM	1
662	Water Plant	Inventory	PollardGauge0-100 psi, 0-1205 GPM	1
663	Water Plant	Inventory	CarltonMiscellaneousNonmetallic weather proof single gauge cover	2
664	Water Plant	Inventory	BadgerMeterMeter services meter	1
665	Water Plant	Inventory	noneMiscellaneoussmall blue, 2 loops at center	2
666	Water Plant	Inventory	noneMiscellaneousBlack rubber loops	23
667	Water Plant	Inventory	noneMiscellaneousSignature pressure transmitter	1
668	Water Plant	Inventory	Plast-O-MaticValvePlast-O-Matic valve	1
669	Water Plant	Inventory	noneValveMedium sized valve component	1
670	Water Plant	Inventory	noneGauge3 way 0-100 psi gauge	1
671	Water Plant	Inventory	noneMeterMeter with no casing	1
672	Water Plant	Inventory	noneMiscellaneousSmall battery cell	1
673	Water Plant	Inventory	noneMiscellaneousLarge battery cell	1
674	Water Plant	Inventory	noneMiscellaneousWhite calibration component	1
675	Water Plant	Inventory	noneMiscellaneousLarge red light reflector	1
676	Water Plant	Inventory	HaywardValveHayward PVC angle valve	1
677	Water Plant	Inventory	CulliganBrine partsBrine tank float tubes	3
678	Water Plant	Inventory	noneBrine partsrods and fibers for brine tank, box	1
679	Water Plant	Inventory	TorayMembraneRO membranes in, box	4
680	Water Plant	Inventory	noneTankDI water tank	8
681	Water Plant	Inventory	noneFeederPot feeders	11
682	Water Plant	Inventory	noneLightMercury lamps	36
683	Water Plant	Inventory	noneLightcourt tubes for covering lamps	3
684	Water Plant	Inventory	noneLight1-10" 3050 LM, boxes	2
685	Water Plant	Inventory	noneLight6 3084 LM, boxes	2
686	Water Plant	Inventory	noneMiscellaneousBlue tube styrofoam	2
687	Water Plant	Inventory	GrundfosPump1.5 hp pump and motor	1
688	Water Plant	Inventory	noneMiscellaneousBlack/silver pressure washer	1
689	Water Plant	Inventory	noneSurface ScatterSurface scatter 6 turbidimeter, 2 parts	1
690	Water Plant	Inventory	noneMiscellaneousHACH streaming current monitor	1
691	Water Plant	Inventory	noneValvethreaded gate valve 4"	1
692	Water Plant	Inventory	noneMeterHot water meters	3
693	Water Plant	Inventory	noneSurface ScatterSurface scatter component	1
694	Water Plant	Inventory	GrundfosPumpGrundfos IREH pump	1
695	Water Plant	Inventory	noneMiscellaneous10 metal rods	1
696	Water Plant	Inventory	noneMotorSmall silver motor	1
697	Water Plant	Inventory	TWRLightLighting double obstruction lights	1
698	Water Plant	Inventory	noneValveBox of various valves	1
699	Water Plant	Inventory	noneMiscellaneousWater unit heater	1
700	Water Plant	Inventory	LANSASPipePipe plug and testing equipment	1
701	Water Plant	Inventory	nonePipePipe clamp	1
702	Water Plant	Inventory	noneValve1 avc, 1/n npt 1/8 valve, boxes	2
703	Water Plant	Inventory	OsmonicsValve2.00 npt iron valve	1
704	Water Plant	Inventory	noneMiscellaneousDark grey circular part, rusty	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
705	Water Plant	Inventory	noneMeterRotating fan portion of meter	1
706	Water Plant	Inventory	noneMiscellaneousLarge blue tubs of mcbride chlorination tools	1
707	Water Plant	Inventory	ISCOMiscellaneous2900 Sampler	0
708	Water Plant	Inventory	nonePumpyellow pump	1
709	Water Plant	Inventory	noneHardwareRed band saw table	1
710	Water Plant	Inventory	DuoFloFilterDuoFlo housing system, 2 feet, 3.67 feet high	1
711	Water Plant	Inventory	noneTanklarge silver/blue tank inside 2 boxes	1
712	Water Plant	Inventory	noneHardwareDark grey cart pieces (not built)	1
713	Water Plant	Inventory	DuoFloFilterBasket weldment	1
714	Water Plant	Inventory	noneMiscellaneousMiscellaneous buckets, white and blue	3
715	Water Plant	Inventory	noneHardwareLarge condenser	1
716	Water Plant	Inventory	nonePipeclear 16ft tubing	1
717	Water Plant	Inventory	noneSurface ScatterSurface scatter 6 user interface	1
718	Water Plant	Inventory	CulliganMiscellaneousSoftener (1+2) components	2
719	Water Plant	Inventory	noneHardware8" metal box, retainer gland	1
720	Water Plant	Inventory	noneBackflow6-8" split backflow preventers	1
721	Water Plant	Inventory	noneValveLarge red gate valve	2
722	Water Plant	Inventory	OrionHardwareOpen Orion fittings box	1
723	Water Plant	Inventory	noneMeterClack WS15 meter ASY turbine 551.5"/15'	2
724	Water Plant	Inventory	AnfieldHardwareAnfield sensors, in boxes	2
725	Water Plant	Inventory	WAITSBackflowRegulator first check repair kits, backflow preventer RP2	1
726	Water Plant	Inventory	noneFilterBasket weldment filter housing	0
727	Water Plant	Inventory	noneMeter3" Clack meters from visual arts (RO Parts)	2
728	Water Plant	Inventory	noneMiscellaneousPressure vacuum breaker size: 1/2	2
729	Water Plant	Inventory	MilwaukeeValveBox of Milwaukee valves	1
730	Water Plant	Inventory	noneBackflowReduce pressure zone backflow preventer	1
731	Water Plant	Inventory	noneValvePressure relief valve	2
732	Water Plant	Inventory	noneStrainerLarge black and blue strainers	4
733	Water Plant	Inventory	nonePipeTwo large steel elbows, 17 1/4 in radius	2
734	Water Plant	Inventory	noneValveLarge blue check valve. Outer radius: 16in, inner: 10.75	2
735	Water Plant	Inventory	NeptunePro Read Register1" T-10 Tricon/S	19
736	Water Plant	Inventory	NeptunePro Read Register5/8" T-10 Tricon/S	17
737	Water Plant	Inventory	NeptunePro Read Register3" HPT Tricon/S	19
738	Water Plant	Inventory	NeptunePro Read Register6" HPT Tricon/S	14
739	Water Plant	Inventory	NeptunePro Read Register6" T/T Tricon/S	5
740	Water Plant	Inventory	NeptunePro Read Register6" Turbine R/S = 1.133	3
741	Water Plant	Inventory	DF FiltersFilterBag filters	-16
742	Water Plant	Inventory	DF FiltersFilterBag filters	0
743	Water Plant	Inventory	DF FiltersFilterBag filters	48
744	Water Plant	Inventory	DF FiltersFilterBag filters	96
745	Water Plant	Inventory	DF FiltersFilterBag filters	64
746	Water Plant	Inventory	DF FilterFilterBag filters	64
747	Water Plant	Inventory	DF FilterFilterMiscellaneous bag filters	32
748	Water Plant	Inventory	NeptuneMeter2" T-10 w/register	1
749	Water Plant	Inventory	NeptuneMeter40mm watermeter	2
750	Water Plant	Inventory	noneMeterCurrent converter	4
751	Water Plant	Inventory	noneValve2" Ball valve	1
752	Water Plant	Inventory	DuoFloFilterLarge filter housing system	1
753	Water Plant	Inventory	noneFilterSilver filter/strainer membranes	2
754	Water Plant	Inventory	FilmtecRO MembraneLarge filmtect membrane 3.5 feet	5
755	Water Plant	Inventory	noneDrain BasinLarge drain basin	2
756	Water Plant	Inventory	noneDrain BasinSmall drain basin	4
757	Water Plant	Inventory	noneTankMedium sized brine tank	1
758	Water Plant	Inventory	noneController822 analog, 832 digital indicator/controllers, box	1
759	Water Plant	Inventory	noneCouponCoupon Racks	5
760	Water Plant	Inventory	noneFlangeRed flange	1
761	Water Plant	Inventory	noneFlangeBlack 6" flange valve	1
762	Water Plant	Inventory	noneHoseSmall, blue	4

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
763	Water Plant	Inventory	noneDistillerDistiller Parts	1
764	Water Plant	Inventory	07002.036Filter10" .2 Micron silicon filter	58
765	Water Plant	Inventory	noneFilter10.85" .2 Micron silicon filter	1
766	Water Plant	Inventory	noneFilter10" .8 Micron silicon filter	28
767	Water Plant	Inventory	noneFilter10" 5 micron filter	108
768	Water Plant	Inventory	noneFilter20" .2 micron silicon duo filter	33
769	Water Plant	Inventory	noneFilter20" .22 micron silicon duo filter	2
770	Water Plant	Inventory	noneFilter20" 2.5 micron silicon filter	6
771	Water Plant	Inventory	noneFilter20" 5 micron filter	-12
772	Water Plant	Inventory	noneFilter20" .8 micron silicon duo filter	27
773	Water Plant	Inventory	noneFilter30" .2 micron silicon triple filter	20
774	Water Plant	Inventory	noneFilter30" .8 micron silicon filter	24
775	Water Plant	Inventory	noneFilter30" 5 micron filter	112
776	Water Plant	Inventory	noneTankYellow chemical containment tanks	3
777	Water Plant	Inventory	noneMiscellaneousHeat condenser parts	1
778	Water Plant	Inventory	noneCapsGrey cap 20"	1
779	Water Plant	Inventory	noneCapsGrey cap 15"	1
780	Water Plant	Inventory	noneCapsGrey cap 23 1/2"	2
781	Water Plant	Inventory	noneCapsGrey cap 18 1/8"	2
782	Water Plant	Inventory	noneFlangeYellow flange 10"/16"	1
783	Water Plant	Inventory	noneHardwareRed operating handles	4
784	Water Plant	Inventory	noneHardwareRed rubber gaskets/stoppers	5
785	Water Plant	Inventory	noneValveRed butterfly valves	2
786	Water Plant	Inventory	noneHardwareblack metel spracket? For sed basin	1
787	Water Plant	Inventory	STA-RITE PentairMotorSTA- RITE Pentair motor 1 1/2 HP 115/230V	1
788	Water Plant	Inventory	GrundfosMotorGrudfos CRT 1.5HP	1
789	Water Plant	Inventory	ProconPumpGrey procon pump	1
790	Water Plant	Inventory	MarathonMotorGrey marathon electric motor, 2HP 115-230V	1
791	Water Plant	Inventory	nonePumpPump for DI PRL booster	1
792	Water Plant	Inventory	noneMotorThree phase induction motor 10.5HP 230/460V	1
793	Water Plant	Inventory	noneValveGold and grey pilot valves	2
794	Water Plant	Inventory	OSBValveOSB brine valve	1
795	Water Plant	Inventory	noneHardwareMisc circuit boards	2
796	Water Plant	Inventory	noneMiscellaneousFull space and seal kits	2
797	Water Plant	Inventory	noneHardware1x31 Brass Tee	2
798	Water Plant	Inventory	noneHardwarePlastic couplings	5
799	Water Plant	Inventory	noneValveRed check valves	2
800	Water Plant	Inventory	noneHardwareCFL-CL float control bit	1
801	Water Plant	Inventory	noneValveBlack check valve 7"/14"	1
802	Water Plant	Inventory	noneValveYellow check valve 10.5"/16" w/rubber gasket	1
803	Water Plant	Inventory	noneValveRed check valve 12"/19"	1
804	Water Plant	Inventory	noneFlangeBlack metal flange 7.5"/14"	1
805	Water Plant	Inventory	noneFlangeBlack metal flange 3.75"/9"	1
806	Water Plant	Inventory	noneFlangeBlack metal flange 13.5"/21.5"	2
807	Water Plant	Inventory	noneFlangeGrey rubber flange 10"/16"	2
808	Water Plant	Inventory	noneFlangeBlue rubber flange 5.75"/10.5"	2
809	Water Plant	Inventory	noneMiscellaneousRed Iron Crosses	2
810	Water Plant	Inventory	nonePumpSpa pool pump 7.5HP, 230/460V	1
811	Water Plant	Inventory	noneValveBlue check valves 10"/16"	2
812	Water Plant	Inventory	nonePumpMulti end suction pump	1
813	Water Plant	Inventory	noneFlangeRed spool flange 25 1/4"	1
814	Water Plant	Inventory	BaldorPumpBaldor electric motor palo pumps	1
815	Water Plant	Inventory	nonePumpBlue whirlpool pump 3HP, 208-230/460V	1
816	Water Plant	Inventory	noneValveRed bate valves 12"/18"	2
817	Water Plant	Inventory	noneFilterFilter clamp	1
818	Water Plant	Inventory	noneMiscellaneousFace shield	1
819	Water Plant	Inventory	noneMiscellaneousEarmuffs	3
820	Water Plant	Inventory	noneMiscellaneousWater treament binder	1

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
821	Water Plant	Inventory	noneMiscellaneousWest chiller plant organization manual	1
822	Water Plant	Inventory	nonePipePipe economy book	1
823	Water Plant	Inventory	noneValveMulti function valve	1
824	Water Plant	Inventory	noneMiscellaneousBox to PVC CRWC JR 9-30-14	1
825	Water Plant	Inventory	noneHardwareRed rubber gaskets 6"	12
826	Water Plant	Inventory	noneStillEquipment for a still	1
827	Water Plant	Inventory	noneSoftener3900 water softener head	1
828	Water Plant	Inventory	noneStillNew condenser mueller still	1
829	Water Plant	Inventory	noneValveRed check valve 24"	1
830	Water Plant	Inventory	noneValveMetal T 14.5"	1
831	Water Plant	Inventory	noneMotorYellow motor 100HP, 460V	1
832	Water Plant	Inventory	noneCapsWhite cap 29"	1
833	Water Plant	Inventory	noneCapsBlack cap 10"	1
834	Water Plant	Inventory	noneCapsRed cap 8.5"	1
835	Water Plant	Inventory	noneCapsBlack cap 16"	1
836	Water Plant	Inventory	noneCapsMetal black cap 21.5"	1
837	Water Plant	Inventory	noneCapsMetal grey cap 32.75"	1
838	Water Plant	Inventory	noneHardwareRed sed basin sprockets 19.5"	2
839	Water Plant	Inventory	noneHardwareRed couplings/cuffs	4
840	Water Plant	Inventory	noneHardwareBlack U clamps	19
841	Water Plant	Inventory	noneValveRed Check valves sed basin stuff	4
842	Water Plant	Inventory	noneMotorGrey yanda motor	1
843	Water Plant	Inventory	noneMotorYellow motor	1
844	Water Plant	Inventory	noneHardwareCopper coil	1
845	Water Plant	Inventory	nonePumpMetal 40" Pump	1
846	Water Plant	Inventory	noneHardwareSiemen circuit breakers	9
847	Water Plant	Inventory	noneHoseRed hose 3"	3
848	Water Plant	Inventory	noneHoseBlue hose 3"	19
849	Water Plant	Inventory	noneHoseHose ends	100
850	Water Plant	Inventory	noneMotorNew motor and seal	1
851	Water Plant	Inventory	noneHoseBlue hose 9"	1
852	Water Plant	Inventory	nonePipeMisc small metal pipe	1
853	Water Plant	Inventory	noneWeldingWelder	1
854	Water Plant	Inventory	noneWeldingHigh purity plastic welding rods	1
855	Water Plant	Inventory	noneWeldingHomopolymer black weld rod	1
856	Water Plant	Inventory	noneMiscellaneousWashers	1
857	Water Plant	Inventory	noneMiscellaneousFunnels	4
858	Water Plant	Inventory	noneMiscellaneousDolley	1
859	Water Plant	Inventory	noneMiscellaneousRed blower	1
860	Water Plant	Inventory	NeptuneMeter1 1/2-2 HPT compound meter	5
861	Water Plant	Inventory	NeptuneMeter1" T-10	9
862	Water Plant	Inventory	NeptuneMeter5/8" T-10	3
863	Water Plant	Inventory	NeptuneMeter3/4" T-10	1
864	Water Plant	Inventory	NeptuneMeter1 1/2"-2" HPT	4
865	Water Plant	Inventory	NeptuneMeter1 1/2" T-10	2
866	Water Plant	Inventory	NeptuneMeter3" HPT	0
867	Water Plant	Inventory	NeptuneMeter2" T-10	5
868	Water Plant	Inventory	NeptuneMeter6" T/T	1
869	Water Plant	Inventory	NeptuneMeter4" HPT	3
870	Water Plant	Inventory	NeptuneMeter3" T/T Compound	3
871	Water Plant	Inventory	NeptuneUME3" T/T UME	2
872	Water Plant	Inventory	NeptuneMeter4" T/T Compound	4
873	Water Plant	Inventory	NeptuneUME4" T/T	1
874	Water Plant	Inventory	noneMiscellaneousCoupon racks	-1
875	Water Plant	Inventory	noneMiscellaneousSpectrometer	1
876	Water Plant	Inventory	GunfosPumpGunfos pumps	2
877	Water Plant	Inventory	noneMiscellaneousAir compressor	1
878	Water Plant	Inventory	noneMembraneLarge RO membranes	0

PART	WHSE	Type	DESCRIPTION	QTY ON HAND
879	Water Plant	Inventory	noneUV LightDouble end UV light	12
880	Water Plant	Inventory	noneUV LightSingle ended UV light	24
881	Water Plant	Inventory	noneLightWater Tower Lights	1
882	Water Plant	Inventory	noneLightWater Tower Lights, small box	2
883	Water Plant	Inventory	noneUV LightUV Light sleeve tubing	40
884	Water Plant	Inventory	noneHardware2.5" Hose - 2" NPT Adapter	4
885	Water Plant	Inventory	noneHardware2.5" Hose - 1" NPT Adapter	5
886	Water Plant	Inventory	noneHardware2.5" Hose - 2" Hose Adapter	2
887	Water Plant	Inventory	noneHardware2.5" Hose - Double Male Adapter	1
888	Water Plant	Inventory	noneHardware2.5" Hose - Double Female Adapter	1
889	Water Plant	Inventory	noneHardware2" Hose - Double Male Adapter	1
890	Water Plant	Inventory	noneHardware2.5" Host - 1.5" NPT Adapter	1
891	Water Plant	Inventory	noneHardware2.5" Brass Cap w/ 100 psi Gauge	7
892	Water Plant	Inventory	noneHardware2.5" Brass Cap w/ 200 psi Gauge	1
893	Water Plant	Inventory	noneHardware2.5" Brass Hydrant Cap	6
894	Water Plant	Inventory	noneHardware2.5" Brass Cap w/ Valve	1
895	Water Plant	Inventory	noneHardwareSwivel Pro Diffuser for Hydrant	1
896	Water Plant	Inventory	noneHardwareSwivel Pro Diffuser w/ Adapter, PSI Guage, 3 Way Bell Val	1
897	Water Plant	Inventory	noneHardwareLong Handle Hydrant Wrench for Hydrant	5
898	Water Plant	Inventory	noneHardwareHydrant Out-Of-Service Bag for Hydrant	1
899	Water Plant	Inventory	noneHardware3 Way Ball Valve Complete Set	9
900	Water Plant	Inventory	noneHardwareSnubbers	8
901	Water Plant	Inventory	noneHardwareRubber Seal	18
902	Water Plant	Inventory	noneHardware100 PSI Gauge	9
903	Water Plant	Inventory	noneHardwareBall Valve for Meter	1
904	Water Plant	Inventory	noneHardwareStrainer for Meter	1
905	Water Plant	Inventory	noneHardwareFlush Valve for Meter	1
906	Water Plant	Inventory	noneHardware3.5" Brass Cap Hose	3
907	Water Plant	Inventory	noneHardwareHydrant Wrench and Spanner	5
908	Water Plant	Inventory	noneHardwareGenerator	1
909	Water Plant	Inventory	noneHardwareHedge Trimmer	1
910	Water Plant	Inventory	noneHardwareJumper Cables	1
911	Water Plant	Inventory	noneHardware100 PSI Gauge	3
912	Water Plant	Inventory	noneHardwareBronzomatic Propane Bottle	1
913	Water Plant	Inventory	noneHardwareFlashlight	1
914	Water Plant	Inventory	noneHardwareCurb Marker Adhesive	2
915	Water Plant	Inventory	noneHardwareAnti-Seize Lubricant	1
916	Water Plant	Inventory	noneHardwareUltimate Gold Oil	1
917	Water Plant	Inventory	noneHardwareWindow Brush	2
918	Water Plant	Inventory	noneHardwarePaint Brush	6
919	Water Plant	Inventory	noneHardwarePaint Bucket	1
920	Water Plant	Inventory	noneHardwareDuct Tape	1
921	Water Plant	Inventory	noneHardwareSpark Plug	1
922	Water Plant	Inventory	noneHardwareCan Shed Bag	1
923	Water Plant	Inventory	noneHardwareHardness Test	1
924	Water Plant	Inventory	noneMapFour Color Water Distribution System Age/Condition Hawkeye	1
925	Water Plant	Inventory	noneMapFour Color Water Distribution System Age/Condition Main Cam	1
926	Water Plant	Inventory	noneMapUniversity Water, Non University Water Hawkeye Campus	1
927	Water Plant	Inventory	noneMapUniversity Water, Non Univeristy Water Main Campus	1
928	Water Plant	Inventory	noneMapWater Line from Iowa City/University Water Oakdale	1
929	Water Plant	Inventory	noneMapWater Line from Iowa City/University Water Hawkeye Campus	1
930	Water Plant	Inventory	noneMapStorm Water Main Campus	1
931	Water Plant	Inventory	noneMapStorm Intake Tap Locations Main Campus	1
932	Water Plant	Inventory	noneMembraneBW30-40 Filmtec High Pressure Membranes	6
933	Water Plant	Inventory	noneFusionFusion Parts Blue Box	1

Asset ID	Description	Category	Location Name
00021047	Room Modular 34X28X10 Ft Compu	EQUIP	Power Plant- 0052
00029186	Crusher Holmes Hammermill	EQUIP	Power Plant- 0052
00038874	Loader Case Teledyne Wheel	EQUIP	Power Plant- 0052
00039688	Vacuum Ross Portable	EQUIP	Power Plant- 0052
00058507	Welch Allyn Video Probe System	EQUIP	Power Plant- 0052
00098699	Catalyst 4500 Chassis 6 Slot	EQUIP	Power Plant- 0052
00098699	Catalyst 4500 Chassis 6 Slot	EQUIP	Power Plant- 0052
00098699	Catalyst 4500 Chassis 6 Slot	EQUIP	Power Plant- 0052
00098699	Catalyst 4500 Chassis 6 Slot	EQUIP	Power Plant- 0052
00098699	Catalyst 4500 Chassis 6 Slot	IT EQUIP	Power Plant- 0052
00119650	Hoist 3-Ton Chester Motorized	EQUIP	Power Plant- 0052
00121413	Loader Case 60XT Skid	EQUIP	Power Plant- 0052
00127853	System Optalign Plus Laser	EQUIP	Power Plant- 0052
00129775	Saw Roll-in Horizontal Swivel	EQUIP	Utility Power Plant @ Oakdale- 0239
00143089	Pipe Threading Machine	EQUIP	Power Plant- 0052
00144694	Bearing Puller Set	EQUIP	Power Plant- 0052
00145193	Engraver	EQUIP	Power Plant- 0052
00145578	PP Central Vacuum	BLDG	Power Plant- 0052
00153613	Analyzer Testo 350 XL Gas	EQUIP	Utility Power Plant @ Oakdale- 0239
00163754	Chromatograph Agilent 490 Micr	EQUIP	Utility Power Plant @ Oakdale- 0239
00163754	Chromatograph Agilent 490 Micr	EQUIP	Utility Power Plant @ Oakdale- 0239
00164766	Saw HE&M Band Mitring Horizon	EQUIP	Power Plant- 0052
00166831	Cisco Catalyst 4948E Opt SW	EQUIP	Power Plant- 0052
00167049	Cisco Catalyst 4948E, Opt SW	EQUIP	Utility Power Plant @ Oakdale- 0239
00167919	Calibrator Advanced Modular	EQUIP	Power Plant- 0052
00169908	Conduit Bender 855GX Smart	EQUIP	Power Plant- 0052
00052356	Analyzer Microbics Microtox To	EQUIP	Water Plant- 0185
00054067	Lift Upright Personnel	EQUIP	Chilled Water Plant 1- 0314
00059145	Laser Conbi W/ Alignment And M	EQUIP	Chilled Water Plant 1- 0314
00087972	Lift Truck Caterpillar Used	EQUIP	Chilled Water Plant 1- 0314
00118770	Gas Chromatograph Saturn 2200	EQUIP	Water Plant- 0185
00122858	Injection Port Cryogenic	EQUIP	Water Plant- 0185
00123137	Sampler Automated Gas	EQUIP	Water Plant- 0185
00139127	Copier Lanier LD345c	EQUIP	Water Plant- 0185
00140243	Spectrophotometer DR 5000 UV	EQUIP	Water Plant- 0185
00140336	Catalyst 4500 Chassis 6 Slot	EQUIP	Chilled Water Plant 1- 0314
00140336	Catalyst 4500 Chassis 6 Slot	EQUIP	Chilled Water Plant 1- 0314
00140336	Catalyst 4500 Chassis 6 Slot	EQUIP	Chilled Water Plant 1- 0314
00140984	System Sepa CFII Med/High	EQUIP	Water Plant- 0185
00141209	Extractor Dionex Accelerated	EQUIP	Water Plant- 0185
00141209	Extractor Dionex Accelerated	EQUIP	Water Plant- 0185
00147641	Evaporator TurboVap II	EQUIP	Water Plant- 0185
00147641	Evaporator TurboVap II	EQUIP	Water Plant- 0185
00148507	Jack SkyJack Scissor Lift	EQUIP	Chilled Water Plant 1- 0314
00155299	Server PowerEdge R710	EQUIP	Water Plant- 0185

Asset ID	Description	Category	Location Name
00156186	Switch Catalyst 4500 E-Series	EQUIP	Water Plant- 0185
00156186	Switch Catalyst 4500 E-Series	EQUIP	Water Plant- 0185
00157291	Server Dell Back Up	EQUIP	Water Plant- 0185
00157647	Server Dell R710	EQUIP	Water Plant- 0185
00159256	Server Dell PowerEdge R710	EQUIP	Water Plant- 0185
00161166	Manlift Fleet Genie Z30/20N	EQUIP	Chilled Water Plant 1- 0314
00161696	Extractor Dionex ASE 300 Syste	EQUIP	Water Plant- 0185
00162095	Server Firewall Appliance Fort	EQUIP	Chilled Water Plant 1- 0314
00163184	Alignment Sys Fixturlaser GO P	EQUIP	Chilled Water Plant 1- 0314
00166644	Spectrophotometer Hach DR6000	EQUIP	Chilled Water Plant 1- 0314
00167077	Cisco Catalyst 4948, Opt SW	EQUIP	Chilled Water Plant 1- 0314
00169750	Cleaner Die-Hard Tube W Cart	EQUIP	Chilled Water Plant 1- 0314
00171579	Cleaner Tube Die-Hard	EQUIP	Chilled Water Plant 1- 0314
00171580	Cleaner Tube Die-Hard	EQUIP	Chilled Water Plant 1- 0314
00176764	Welder Wire XMT 304 Machine	EQUIP	Chilled Water Plant 1- 0314

SCHEDULE 4

UTILITY SYSTEM CONTRACTS

All contracts listed below have been provided in the virtual data room labeled “Project Hercules” hosted by IntraLinks, Inc.

1. Lease of Pneumatic Tire Lift Truck by and between Altorfer Power Systems, as lessor, and the University of Iowa, as lessee, dated as of April 14, 2017.
2. Maintenance Agreement for Caterpillar Emergency Generators by and between Altorfer Power Systems and the University of Iowa dated as of November 12, 2018.
3. Memorandum of Agreement by and between the University of Iowa and American Piping Group Inc dated as of April 1, 2019.
4. Memorandum of Agreement by and between the University of Iowa and BWC Industrial Services LLC dated as of September 9, 2014, as amended by that certain Amendment #1 to the Agreement dated September 9, 2014 dated as of October 18, 2016, that certain Amendment #2 to the Agreement dated September 9, 2014 dated as of August 3, 2017, that certain Amendment #3 to the Agreement dated September 9, 2014 dated as of September 19, 2018, and that certain Amendment #4 to the Agreement dated September 9, 2014 dated as of September 10, 2019.
5. Memorandum of Agreement by and between the University of Iowa and Carter and Associates Incorporated dated as of September 21, 2012, as amended by that certain Amendment #1 to the Agreement dated September 21, 2012 dated as of March 6, 2015, that certain Amendment #2 to the Agreement dated September 21, 2012 dated as of October 30, 2017, that certain Amendment #3 to the Agreement dated September 21, 2012 dated as of October 12, 2018, and that certain Amendment #4 to the Agreement dated September 21, 2012 dated as of September 12, 2019.
6. Memorandum of Agreement by and between the University of Iowa and CB Sales and Service Inc dated as of November 1, 2016, as amended by that certain Amendment #1 to the Agreement dated November 1, 2016, and that certain Amendment #2 to the Agreement dated November 1, 2016 dated as of October 26, 2018.
7. Memorandum of Agreement between the University of Iowa and Eldon C. Stutsman, Inc. dated as of November 15, 1996.
8. Memorandum of Agreement by and between the University of Iowa and ESCO Group dated as of August 15, 2017, as amended by that certain Amendment #1 to the Agreement dated August 15, 2017 dated as of October 13, 2017, and that certain Amendment #2 to the Agreement dated August 15, 2017 dated as of August 1, 2018.
9. Quotation for purchase of chlorine (2000 lb cylinder and 150 lb cylinder) accepted by the University on February 5, 2019, as supplemented by the Confidential Customer Application for Open Terms between the University of Iowa and Hawkins dated as of September 19, 2018.

10. Bid Reponse by and between the University of Iowa and Hydrite Chemical Company dated as of August 6, 2010, as amended by that certain Amendment #1 to the Agreement dated August 6, 2010 dated as of January 6, 2014, that certain Amendment #2 to the Agreement dated August 6, 2010 dated as of February 3, 2015, that certain Amendment #2 to the Agreement dated August 6, 2010 dated as of August 27, 2015, that certain Amendment #3 to the Agreement dated August 6, 2010 dated as of October 6, 2017, that certain Amendment #5 to the Agreement dated August 6, 2010 dated as of July 17, 2018, and that certain Amendment #6 to the Agreement dated August 6, 2010 dated as of July 22, 2019.
11. Memorandum of Agreement by and between the University of Iowa and ILC Resources dated as of January 1, 2019, as amended by that certain Amendment #1 to the Agreement dated January 1, 2019 dated as of November 21, 2019.
12. Technical Assistance Agreement by and between the University of Iowa and John Zink Company, LLC dated as of September 1, 2017.
13. Memorandum of Agreement by and between the University of Iowa and Lhoist North America of Missouri Inc dated as of July 13, 2017, as amended by that certain Amendment #1 to the Agreement dated July 13, 2017 dated as of April 12, 2018 and that certain Amendment #2 to the Agreement dated July 13, 2017 dated as of December 3, 2019.
14. Memorandum of Agreement by and between the University of Iowa and Mississippi Lime Company dated as of November 1, 2016, as amended by that certain Amendment #1 to the Agreement dated November 1, 2016 dated as of November 21, 2017, that certain Amendment #2 to the Agreement dated November 1, 2016 dated as of December 6, 2018, and that certain Amendment #3 to the Agreement dated November 1, 2016 dated as of December 4, 2019.
15. Purchase Order placed with OSIsoft LLC pursuant to the terms and conditions of Agreement No. 3_6038 dated as of January 18, 2019.
16. Memorandum of Agreement by and between the University of Iowa and Peterson Contractors Inc dated as of January 1, 2019, as amended by that certain Amendment #1 to the Agreement dated January 1, 2019 dated as of November 12, 2019.
17. Professional Services Agreement by and between the University of Iowa and ProCom Systems Incorporated dated as of June 24, 2016, as amended by that certain Amendment #1 to the Agreement dated June 24, 2016 dated as of June 28, 2017, that certain Amendment #2 to the Agreement dated June 24, 2016 dated as of June 25, 2018, and that certain Amendment #3 to the Agreement dated June 24, 2016 dated as of October 6, 2019.
18. Proposal for certain Environmental Services prepared October 26, 2016 by Safety-Kleen and accepted by the University of Iowa.
19. Proposal for certain Environmental Services prepared October 26, 2016 by Safety-Kleen and accepted by the University of Iowa.

20. Memorandum of Agreement by and between the University of Iowa and Solenis LLC dated as of October 20, 2014, as amended by that certain Amendment #1 to the Agreement dated October 20, 2014 dated as of February 8, 2016, that certain Amendment #2 to the Agreement dated October 20, 2014 dated as of June 12, 2018, that certain Amendment #3 to the Agreement dated October 20, 2014 dated as of June 5, 2019, and that certain Amendment #4 to the Agreement dated October 20, 2014 dated as of September 19, 2019.
21. Memorandum of Agreement by and between the University of Iowa and Standard Laboratories Incorporated dated as of July 1, 2019.
22. Memorandum of Agreement by and between the University of Iowa and Teledyne Monitor Labs dated as of April 22, 2015, as amended by that certain Amendment #1 to the Agreement dated April 22, 2015 dated as of March 15, 2016.

SCHEDULE 5

UTILITY FEE

Calculation of Utility Fee

The Utility Fee for any given Fiscal Year shall be calculated as follows: (i) the Fixed Fee, *plus* (ii) the Benchmark Amount multiplied by 0.5 multiplied by the Variable Fee Component *plus* (iii) Cost of Debt Factor multiplied by 0.5 multiplied by the Variable Fee Component *plus* (iv) the Capital Recovery Amount *plus* (v) the Capped O&M Index, as may be adjusted in accordance with the definition thereof *plus* (vi) the Uncapped O&M Costs.

The Parties acknowledge that the purpose of the calculation of the Utility Fee is to approximate a reasonable and market rate to be paid by the University for the Utility Services commensurate of what would be paid for such services in the applicable market and is not intended to reflect Concessionaire's actual cost of debt, return on equity, return of capital, tax liability or similar items. The parties intend that no component of the Utility Fee be considered as a separate fee for any standalone element of the overall service arrangement.

Abandoned Capital Improvements

If any New Approved Capital Improvement Costs were included in the calculation of the Utility Fee in any Fiscal Year for a Capital Improvement that the University subsequently determines, in its reasonable discretion, that the Concessionaire has abandoned and does not ever intend to complete and bring into service for reasons other than a University Directive, a Delay Event, an Adverse Action or any other change in requirements by the University, those New Approved Capital Improvement Costs shall be removed from the Variable Fee Component and the Unrecovered Balance for each such Fiscal Year, and the Concessionaire shall promptly after receipt of notice of such determination recalculate the Utility Fee for such Fiscal Years resulting from the removal of such New Approved Capital Improvement Costs and pay to the University, within 30 Days of the determination by the Concessionaire, the difference between the Utility Fee actually paid by the University and the Utility Fee that the University would have paid if those New Approved Capital Improvement Costs had not been included.

Exhibit A

Attached hereto as Exhibit A is an illustrative mathematical explanation and example of the Utility Fee formula, which, in the event of a conflict between Exhibit A and such formula, the formula set forth above shall control.

Exhibit B

Attached hereto as Exhibit B is an illustrative mathematical explanation and example of the Capped O&M Index formula, which, in the event of a conflict between Exhibit B and such formula, the formula set forth in the definition of "Capped O&M Index" shall control.

Definitions

"Capital Improvement Cost" shall mean the lesser of (i) the actual, out-of-pocket costs incurred by the Concessionaire in bringing a Capital Improvement into service, which may include insurance, any applicable sales or use tax, incremental financing costs and bonding costs and (ii) the amount budgeted for such Capital Improvement in the University's Approval therefor (which

may include amounts payable to the Operator that are included in such Approval) which shall be increased by any reasonable, actual out-of-pocket costs incurred by the Concessionaire due to a Delay Event that were unavoidable for reasons outside the Concessionaire's control, but excluding any amount budgeted for non-capital expenses with respect to such Capital Improvement, in each case taking into account any actual or anticipated tax credits or other benefits that will accrue to the Concessionaire (but only as and when such tax credit inures to the benefit of the Concessionaire and in the manner contemplated by the Approval of such Capital Improvement, if contemplated thereby), provided that, upon written request of the Concessionaire, the University shall have the right, in its sole discretion, to increase the Capital Improvement Cost by some or all of the amount that the actual out-of-pocket costs incurred for such Capital Improvement exceeds the amount Approved therefor.

"Capital Recovery Amount" shall mean the sum of the results of the following calculation, calculated separately for each New Approved Capital Improvement: (i) the New Approved Capital Improvement Costs incurred in the immediately prior Fiscal Year, *divided by* (ii) the Recovery Period for such New Approved Capital Improvement; which Capital Recovery Amount shall be included in each Fiscal Year's Utility Fee thereafter until such time as the Unrecovered Balance for such New Approved Capital Improvement Costs equals \$0.

"Capped O&M Ceiling" shall mean 102.0% of the Capped O&M Index for an applicable Fiscal Year.

"Capped O&M Index" shall mean for the applicable Fiscal Year (the "Subject Fiscal Year") (i) the three-year arithmetic average of Capped O&M Costs for the 3 previous Fiscal Years, regardless of whether the University or the Concessionaire was operating the Utility System (provided that for the Fiscal Years in which the University operated the Utility System, the Capped O&M Costs shall be the costs incurred or accrued by the University that are analogous to the categories of the Capped O&M Costs), provided that (A) when calculating such arithmetic average, the 3 previous Fiscal Years' of Capped O&M Costs shall each be Adjusted for Inflation as follows: each of the previous Fiscal Years' Capped O&M Costs shall be multiplied by (I) the CPI Index in the Subject Fiscal Year *divided by* (II) the CPI Index in such previous Fiscal Year, provided that, in no event, shall the Capped O&M Costs be reduced as a result of being Adjusted for Inflation and (B) for purposes of calculating the Capped O&M Costs to be part of the three-year arithmetic average of Capped O&M Costs for the Capped O&M Index in a Subject Fiscal Year, the Capped O&M Costs for any Fiscal Year used in such calculation shall not exceed the Capped O&M Ceiling for that Fiscal Year, except that the University may, in its sole discretion, approve the inclusion of any Capped O&M Costs above the Capped O&M Ceiling in such calculation, *plus* (ii) the three-year arithmetic average of the costs identified in the definition of "Capped O&M Costs" related to (1) a New Approved Capital Improvement after it has been brought into service or (2) an Ongoing Utility System Project after it has been transferred to the Concessionaire and becomes part of the Utility System for the first 3 Years after such New Approved Capital Improvement or Ongoing Utility System Project is brought into service or becomes part of the Utility System, as applicable, which costs, for the avoidance of doubt, will have been borne as "Uncapped O&M Costs" for such first 3 Years, *plus* (iii) the three-year arithmetic average of the operations and maintenance costs that are reasonably necessary to cause the Utility System or Utility System Operations to comply with the enactment of a new

Law or the modification, amendment or change in enforcement or interpretation of a Law (including a change in the application or implementation thereof by any Governmental Authority) arising after the Setting Date for the first 3 Years after the occurrence of such enactment, modification, amendment or change (but not, for the avoidance of doubt, those costs that are included in Uncapped O&M Costs with respect thereto other than in clause “(s)” of such definition) *plus* (iv) the three-year arithmetic average of the reasonable costs of any other adjustments to the Capped O&M Index made pursuant to the Agreement for the first 3 Years after such adjustment is first made. For the avoidance of doubt, any adjustments pursuant to (ii), (iii) and (iv) in the foregoing shall be applied to (a) increase the Capped O&M Index in the first Fiscal Year in which the adjustment is to be made and (b) to increase the Capped O&M Index for the two prior Fiscal Years solely for the purpose of calculating the Capped O&M Index for the subsequent two Fiscal Years. Notwithstanding the foregoing, the University and the Concessionaire hereby acknowledge and agree that, for purposes of calculating the Capped O&M Index, the Capped O&M Costs for the Fiscal Years ending June 30, 2017, June 30, 2018 and June 30, 2019 are deemed to be \$19,478,776, \$20,062,289 and \$19,487,502, respectively, which, for the avoidance of doubt, shall be Adjusted for Inflation in accordance with this definition of “Capped O&M Index”. For the further avoidance of doubt, to determine the CPI Index for a Fiscal Year hereunder, the Parties shall calculate the arithmetic average of the monthly CPI Index for each month during such Fiscal Year and such average shall be the CPI Index for that Fiscal Year.

“Cost of Debt Factor” shall be 0.0319, which shall be adjusted at the end of each fifth Fiscal Year (starting on June 30, 2025), to be the “yield-to-worst”, expressed as a decimal, as such term is defined in the Barclays Baa U.S. Corporate Investment Grade Index using the “LCB1YW” ticker as of the date hereof (or if such index is no longer published, such other index as reasonably agreed by the Concessionaire and the University), which adjustment shall not be considered an amendment or modification of this Schedule 5 or the method of calculation of the Utility Fee and shall not require the approval of either the Concessionaire or the University. The Concessionaire shall have the right, with the University’s Approval which may be withheld in its sole discretion, to set the Cost of Debt Factor for a portion of the Variable Fee Component attributable to the Unrecovered Balance of a New Approved Capital Improvement based on the actual cost of debt incurred by the Concessionaire with respect to such New Approved Capital Improvement.

“Fixed Fee” shall mean \$35,000,000, increased by 1.5% to \$35,525,000 on July 1, 2025 for the Fiscal Year ending on June 30, 2026 and by 1.5% at the start of each Fiscal Year thereafter. For the avoidance of doubt, the Fixed Fee is compensation for (i) the Concessionaire performing the Utility Services as set forth in the Agreement, (ii) the risks and liabilities undertaken by the Concessionaire in the Agreement for which the Concessionaire may not otherwise be compensated under the Agreement and (iii) the expertise and technical know-how that the Concessionaire is expected to bring to bear on the Utility System and the Utility System Operations.

“New Approved Capital Improvement” shall mean a Capital Improvement that was, or is being, constructed by the Concessionaire and is or will be brought into service as part of the Utility System.

“New Approved Capital Improvement Cost” shall mean the Capital Improvement Cost of a New Approved Capital Improvement.

“Relevant Region” shall mean Kansas, Illinois, Iowa, Minnesota, Missouri, Nebraska, North Dakota, South Dakota and Wisconsin.

“Benchmark Amount” shall mean 0.098, which shall be adjusted at the end of each 5th Fiscal Year (starting on June 30, 2025) to be the mean average of all return on equity percentages (as expressed as a decimal) for the investor-owned electric or gas public utilities in the Relevant Region approved within the previous 10 Fiscal Years, to the extent approved by a publicly-available, final, non-appealable order (or its equivalent) issued by the relevant public utilities commission or court of competent jurisdiction, excluding the highest and the lowest equity percentages for the Relevant Region during that period, which adjustment shall not be considered an amendment or modification of this Schedule 5 or the method of calculation of the Utility Fee and shall not require the approval of either the Concessionaire or the University.

“Unrecovered Balance” shall mean for the New Approved Capital Improvement Costs incurred in any prior Fiscal Year, an amount equal to (i) those New Approved Capital Improvement Costs in such Fiscal Year less (ii) the aggregate Capital Recovery Amount that has been paid in the calculation of the Utility Fee in prior Fiscal Years that are attributable to such New Approved Capital Improvement Costs.

“Variable Fee Component” shall mean the sum of all Unrecovered Balances.

Exhibit A

CALCULATION OF UTILITY FEE

Formula

$$UF = FF + (BA \times 0.5 \times VFC) + (COD \times 0.5 \times VFC) + CRA + COMI + UOMC$$

COD = Cost of Debt Factor

CRA = Capital Recovery Amount

FF = Fixed Fee

COMI = Capped O&M Index

UOMC = Uncapped O&M Costs

BA = Benchmark Amount

UF = Utility Fee

VFC = Variable Fee Component

Exemplar

As an exemplar only to illustrate a portion of the calculation of the Utility Fee, below shows the calculation for clauses (ii) and (iii) of the Utility Fee calculation and the Capital Recovery Amount for Fiscal Years 2020, 2021 and 2022, assuming that (a) \$10,000,000 is incurred as a New Approved Capital Improvement Cost in Fiscal Year 2020 for a New Approved Capital Improvement with an Recovery Period of 20 years with no further New Approved Capital Improvement Costs in 2020, 2021 and 2022, (b) the Benchmark Amount is 0.10 and (c) the Cost of Debt Factor is 0.04. For the avoidance of doubt, none of these assumptions shall be binding on the University or the Concessionaire, and they are not intended to reflect any expectations of either Party or the actual calculation of the Utility Fee.

Fiscal Year 2020

Utility Fee clause (ii) = \$0, calculated as follows: $0.1 \times 0.5 \times \$0$

Utility Fee clause (iii) = \$0, calculated as follows: $0.04 \times 0.5 \times \$0$

Capital Recovery Amount = \$0

Fiscal Year 2021

Utility Fee clause (ii) = \$500,000, calculated as follows: $0.1 \times 0.5 \times (\$10,000,000 - \$0)$

Utility Fee clause (iii) = \$200,000, calculated as follows: $0.04 \times 0.5 \times (\$10,000,000 - \$0)$

Capital Recovery Amount = \$500,000, calculated as follows: $\$10,000,000 / 20$

Fiscal Year 2022

Utility Fee clause (ii) = \$475,000, calculated as follows: $0.1 \times 0.5 \times (\$10,000,000 - \$500,000)$

Utility Fee clause (iii) = \$190,000, calculated as follows: $0.04 \times 0.5 \times (\$10,000,000 - \$500,000)$

Capital Recovery Amount = \$500,000, calculated as follows: $\$10,000,000 / 20$

Exhibit B

CAPPED O&M INDEX CALCULATION

Formula

$$\text{COMI} = 3\text{Y O\&M Average} + \text{NACI O\&M} + \text{Ousp O\&M} + \text{NL O\&M} + \text{OA O\&M}$$

$$\text{COMI} = \text{Capped O\&M Index}$$

3Y O&M Average = three-year arithmetic average of Capped O&M Costs for last 3 previous Fiscal Years as adjusted by clauses A & B of the COMI definition.

NACI O&M = annual operations and maintenance costs for New Approved Capital Improvements based on the three-year arithmetic average of the O&M costs of such improvements.

Ousp O&M = annual operations and maintenance costs for Ongoing Utility System Projects based on the three-year arithmetic average of the O&M costs of such projects.

NL O&M = forecasted annual operations and maintenance costs for compliance with new Laws.

OA O&M = other adjustments to the COMI permitted by the Agreement.

Exemplar

As an exemplar only to illustrate the portion of the calculation of the Utility Fee related to the calculation of the Capped O&M Index for 2023, set forth below is the calculation using the hypothetical amounts set forth in the table below. For avoidance of doubt, none of these assumptions shall be binding on the University or the Concessionaire, and they are not intended to reflect any expectations of either Party as to the actual calculation of the Capped O&M Index.

Year	CPI	COMI	COM Costs	NACI O&M	OUSP O&M	NL O&M	OA O&M
2020	260	21 MM	21.1 MM				
2021	280	21.5 MM	23 MM				
2022	310	22.6 MM	21.2 MM				
2023	290			.2 MM ¹	.3 MM ¹	.25MM ¹	.1 MM ¹

For Example, the 3Y O&M Average For Subject Fiscal Year of 2023 would be calculated as follows:

((2023 CPI / 2020 CPI, but no less than 1) * 2020 Capped O&M Costs, but the 2020 Capped O&M Costs can be no more than 102% of 2020 COMI, *plus* (2023 CPI / 2021 CPI, but no less than 1) * 2021 Capped O&M Costs, but the 2021 Capped O&M Costs can be no more than 102% of 2021 COMI, *plus* (2023 CPI / 2022 CPI, but no less than 1) * 2022 Capped O&M Costs, but the 2022 Capped O&M Costs can be no more than 102% of 2022 COMI) / 3

$((290 / 260 = 1.11 * 21.1 = \$23.421 \text{ MM}) + (290 / 280 = 1.036 * 21.93 \text{ (limited by 1.02 of COMI)} = \$22.72) + (290 / 310 \text{ (can't be less than 1)} = 1 * 21.2 = \$21.2 \text{ MM})) / 3 = \22.45 MM

$\$22,450,000 \text{ COMI} + \$200,000 \text{ NACI O\&M} + \$300,000 \text{ OUSP O\&M} + \$250,000 \text{ NL O\&M} + 100,000 \text{ OA O\&M} = \$23,300,000$

¹ Such amounts would be included in the Capped O&M Index for Fiscal Years 2021 and 2022 (as adjusted by the CPI Index) solely for the purpose of calculating the Capped O&M Index for Fiscal Years 2024 and 2025, as applicable.

SCHEDULE 6

EXISTING SUPPLY CONTRACTS

1. The University of Iowa Professional Services Agreement by and between the University of Iowa and AGgrow Tech LLC dated as of October 4, 2014, as amended by that certain Amendment #1 to the Agreement dated October 1, 2014 dated as of April 2, 2015, that certain Amendment #2 to the Agreement dated October 1, 2014 dated as of February 22, 2017, that certain Amendment #3 to the Agreement dated October 1, 2014 dated as of February 26, 2018, that certain Amendment #4 to the Agreement dated October 1, 2014 dated as of August 6, 2019.
2. Master Facilities and Restoration Services Agreement by and between Interstate Power and Lighting Company and the University of Iowa – Oakdale Campus dated effective as of November 27, 2017.
3. Memorandum of Agreement by and between the University of Iowa and CR Feed & Fiber dated as of April 1, 2015, as amended by that certain Amendment #1 to the Agreement dated April 1, 2015 dated as of March 31, 2016, that certain Amendment #2 to the Agreement dated April 1, 2015 dated as of January 19, 2018, and that certain Amendment #3 to the Agreement dated April 1, 2015 dated as of July 27, 2018.
4. Memorandum of Agreement by and between the University of Iowa and Convergen Energy WI LLC dated as of April 25, 2016, as amended by that certain Amendment #1 to the Agreement dated April 25, 2016 dated as of February 27, 2018, and that certain Amendment #2 to the Agreement dated April 25, 2016 dated May 21, 2019.
5. The University of Iowa Professional Services Agreement by and between the University of Iowa and Convergen Energy LLC dated effective as of December 12, 2018.
6. Memorandum of Agreement by and between the University of Iowa and Liebe Trucking Incorporated dated as of February 29, 2016, as amended by that certain Amendment #1 to the Agreement dated February 29, 2016 dated as of October 10, 2017, and that certain Amendment #2 to the Agreement dated February 29, 2016 dated as of March 8, 2018.
7. IRC Electric Service Agreement by and between Midamerican Energy Company and the University of Iowa dated as of August 12, 2015.
8. Iowa Retail Natural Gas Supplier Agreement Related to Request for Proposal Number 14028 by and between MidAmerican Energy Company Retail and the University of Iowa dated as of May 4, 2010, as amended by that certain Addendum to Exhibit A of the Iowa Retail Natural Gas Supplier Agreement between MidAmerican and the University of Iowa dated May 9, 2017, that certain Revised Exhibit B to Iowa Retail Natural Gas Supplier Agreement between MidAmerican and the University of Iowa dated February 1, 2018, that certain Revised Exhibit B to Iowa Retail Natural Gas Supplier Agreement between MidAmerican and the University of Iowa dated June 6, 2018, and that certain

Revised Exhibit B to Iowa Retail Natural Gas Supplier Agreement between MidAmerican and the University of Iowa dated October 25, 2018.

9. Gas Transportation Contract by and between MidAmerican Energy Company and the University of Iowa dated as of February 4, 1993, as amended by that certain First Amendment to Gas Transportation Contract dated January 19, 2010.
10. Gas Transportation Contract by and between MidAmerican Energy Company and the University of Iowa dated as of October 1, 2001.
11. Gas Transportation Contract by and between MidAmerican Energy Company and the University of Iowa dated as of December 1, 2005.
12. Gas Transportation Contract by and between MidAmerican Energy Company and the University of Iowa dated as of August 28, 2009.
13. MidAmerican Energy Company Service Request Form by and between MidAmerican Energy Company and the University of Iowa dated as of May 23, 2017.
14. Agreement for Sale of Oat Hulls by and between the University of Iowa, Utilities Division and Quaker Manufacturing, LLC dated as of June 30, 2021.
15. Memorandum of Agreement by and between the University of Iowa and River Trading Company dated as of July 1, 2014, as amended by that certain Amendment #1 to the Agreement dated June 1, 2014 dated as of September 5, 2014, that certain Amendment #2 to the Agreement dated June 1, 2014 dated as of February 26, 2015, that certain Amendment #3 to the Agreement dated June 1, 2014 dated as of June 11, 2015, that certain Amendment #4 to the Agreement dated June 1, 2014 dated as of February 15, 2016, that certain Amendment #5 to the Agreement dated June 1, 2014 dated as of May 22, 2017, that certain Amendment #6 to the Agreement dated June 1, 2014 dated as of April 16, 2018, that certain Amendment #7 to the Agreement dated June 29, 2014 dated as of June 20, 2019, that certain Amendment #8 to the Agreement dated June 29, 2014 dated as of August 2, 2019, and that certain Amendment #9 to the Agreement dated June 29, 2014 dated as of August 7, 2019.

SCHEDULE 7

FORM OF LEGAL OPINION OF COUNSEL TO THE UNIVERSITY

_____, 2020

P3 Concessionaire

Re: Long-Term Lease and Concession Agreement
for University of Iowa Utility System

Ladies and Gentlemen:

I am the Vice President for Legal Affairs and General Counsel at the University of Iowa, a state supported public research and educational institution in Iowa City, Iowa (the "University"), in connection with the Long-Term Lease and Concession Agreement for the University of Iowa Utility System, dated December ___, 2019 (the "Concession Agreement"), among the Board of Regents, State of Iowa (the "Board of Regents"), the University and _____ (the "Concessionaire"). This opinion letter is delivered to you pursuant to Section 2.4(a)(iv) of the Concession Agreement. Capitalized terms used herein and not otherwise defined herein have the meanings assigned to such terms in the Concession Agreement. With your permission, all assumptions and statements of reliance herein have been made without any independent investigation on our part except to the extent, if any, otherwise expressly stated herein, and we express no opinion with respect to the subject matter or accuracy of the assumptions or items upon which we have relied.

In connection with the opinions expressed herein, we have examined the following documents:

- (i) an executed copy of the Concession Agreement;
- (ii) an executed copy of the Memorandum of Lease Agreement, dated the same date as this letter ("Memorandum of Lease") and, together with the Concession Agreement, the "Transaction Documents", by and among, the Board of Regents, the University and the Concessionaire; and
- (iii) a copy of the resolution passed by the Board of Regents, State of Iowa, (Resolution No. _____), on December ___, 2019 and entitled Authorization of the Long Term Lease and Concession Agreement for the University of Iowa Utility System (the "Resolutions"), certified to us as of the date hereof by the Board Counsel of the Board of Regents, as being duly authorized and adopted by the Board of Regents, State of Iowa, at a legally convened meeting of the Board, pertaining to the Concession Agreement or consummation of the transactions contemplated thereby.

In all such examinations, we have assumed the legal capacity of all natural persons executing documents, the genuineness of all signatures (other than those of the University) on the

Transaction Documents, the authenticity of original and certified documents, and the conformity to original documents of all copies submitted to us as conformed or reproduction copies. Without limiting the foregoing, we have assumed that all public records furnished to us (including, without limitation, the Resolutions) are true, correct, and complete copies thereof and that such records have not been amended, modified or supplemented. As to various questions of fact relevant to the opinions expressed herein, we have relied upon, and assume the accuracy of, representations and warranties contained in the Transaction Documents and certificates and oral or written statements and other information of or from representatives of the University and others, and we have assumed compliance on the part of the University with its covenants and agreements contained therein.

Based upon the foregoing, and subject to the limitations, qualifications and assumptions set forth herein, we are of the opinion that:

- (a) The University is an instrumentality of the State of Iowa governed by the Board of Regents, State of Iowa as authorized by Chapter 262 of the Code of Iowa.
- (b) The University has the power and authority under Iowa law to enter into the Transaction Documents and to perform its obligations under the Concession Agreement.
- (c) The execution and delivery to the Concessionaire by the University of the Transaction Documents and the performance by the University of its obligations under the Concession Agreement have been duly authorized by all necessary action on behalf of the University and the Board of Regents.
- (d) The Transaction Documents have been duly executed and delivered on behalf of the University, and the Concession Agreement constitutes a valid and binding obligation of the University, enforceable against the University in accordance with its terms.
- (e) You have requested our advice as to whether a state court of the State of Iowa would give effect to the choice of law provision contained in Section 20.6 of the Concession Agreement (collectively, the “Choice of Law Provision”). In general, Iowa courts have validated contractual choice of law stipulations, following Restatement (Second) of Conflict of Laws, Section 187, which permits the parties to agree on the law to be applied to a contract in most cases so long as it does not override the public policy of a state having a materially greater interest in the transaction or the chosen state has no substantial relationship to the parties.
- (f) The execution and delivery to the Concessionaire by the University of the Transaction Documents and the performance by the University of its obligations under the Concession Agreement do not require under present law, or present regulation of any governmental agency or authority, of the State of Iowa, any filing or registration by the University with, or approval or consent to the University of, any governmental agency or authority of the State of Iowa that has not been made or obtained except those required in the ordinary course of business in connection with the performance by the University of its obligations under certain covenants contained in the Concession Agreement.

The opinions set forth above are subject to the following limitations, qualifications and assumptions:

A. Our opinions in paragraph (d) above are subject to: (i) any applicable bankruptcy, insolvency, reorganization, fraudulent transfer and conveyance, voidable preference, moratorium, receivership, conservatorship, arrangement or similar laws, and related regulations and judicial doctrines, from time to time in effect affecting creditors' rights and remedies generally or affecting the rights and remedies of creditors of a state university; (ii) general principles of equity (including, without limitation, standards of materiality, good faith, fair dealing and reasonableness, equitable defenses, the exercise of judicial discretion and limits on the availability of equitable remedies, including without limitation specific performance), whether such principles are considered in a proceeding at law or in equity; and (iii) the qualification that certain other provisions of the Concession Agreement may be subject to limitations or rendered unenforceable, in either case, in whole or in part under the laws (including judicial decisions) of the State of Iowa, but such limitations or unenforceability, as the case may be, do not make the remedies that will be afforded to the Concessionaire inadequate for the practical realization of the substantive benefits purported to be provided to the Concessionaire by the Concession Agreement, in each case, subject to the other limitations, qualifications and assumptions set forth in this opinion letter.

B. We express no opinion as to the enforceability of any provision in the Concession Agreement:

- (i) establishing standards for the performance of the obligations of good faith, diligence, reasonableness and care prescribed by any applicable laws;

- (ii) relating to indemnification, contribution, exculpation or provisions of similar effect (a) in connection with violations of any securities laws or statutory duties or public policy, (b) relating to the performance or nonperformance of a public duty, or (c) in connection with willful, reckless or unlawful acts or gross negligence of the indemnified or exculpated party or the party receiving contribution;

- (iii) providing that any person or entity may exercise set-off rights other than in accordance with and pursuant to applicable law;

- (iv) purporting to confer, or constituting an agreement with respect to, the jurisdiction of any court or courts to adjudicate any matter;

- (v) purporting to create a trust or other fiduciary relationship;

- (vi) specifying that provisions thereof may be waived only in writing, to the extent that an oral agreement or an implied agreement by trade practice or course of conduct has been created that modifies any provision of the Concession Agreement;

- (vii) providing for the payment of attorneys' fees;

- (viii) waiving any statute of limitations;

- (ix) restricting the University from access to legal or equitable remedies;

- (x) providing for mediation;

(xi) relating to the liability of or damages with respect to the University, the Board of Regents of the University or any employees or agents of the University to the extent the liability of or damages with respect to such entities or individuals is prescribed or limited by Chapter 669 Code of Iowa; and

(xii) relating to capital improvements or additions, alterations, improvements (structural, capital or otherwise) to be constructed or erected or heating, cooling or ventilating plants, equipment or material (including, without limitation, energy conservation measures) to be supplied or installed with respect to the Utility System, to the extent any such items are not administered in accordance with applicable law.

C. We note that our opinions in paragraph (b) above as they relate to indemnification, contribution, exculpation or provisions of similar effect in the Concession Agreement are limited by Section 12.12 of the Concession Agreement and applicable law.

D. Our opinions as to enforceability are subject to the effect of generally applicable rules of law that:

(i) provide that forum selection clauses in contracts are not necessarily binding on the court(s) in the forum selected; and

(ii) may, where less than all of a contract may be unenforceable, limit the enforceability of the balance of the contract to circumstances in which the unenforceable portion is not an essential part of the agreed exchange, or that permit a court to reserve to itself a decision as to whether any provision of any agreement is severable.

E. We express no opinion as to the enforceability of any purported waiver, release, variation, disclaimer, or other agreement to similar effect (all of the foregoing, collectively, a “Waiver”) by the University under the Concession Agreement to the extent limited by any provisions of applicable law (including judicial decisions), or to the extent that such a Waiver applies to a right, claim, duty or defense or a ground for, or a circumstance that would operate as, a discharge or release otherwise existing or occurring as a matter of law (including judicial decisions), except to the extent that such a Waiver is effective under and is not prohibited by or void or invalid under provisions of applicable law (including judicial decisions).

F. We express no opinions whatsoever as to any matters relating to: (i) the creation, attachment, perfection or priority of any security interests, liens, restrictions, mortgages easements or other encumbrances referenced in, or intended or purported to be created pursuant to, the Transaction Documents; (ii) the existence of any security interests, liens, restrictions, mortgages, easements or other encumbrances with respect to all or any part of the Utility System or the consequences of failure to comply with the terms of any such security interest, lien, restriction, mortgage, easement or encumbrance; and (iii) the status of title to all or any part of the Utility System.

G. To the extent it may be relevant to the opinions expressed herein, we have assumed that the parties to the Transaction Documents (other than the University) have the power to enter into and perform such documents and to consummate the transactions contemplated thereby, that such parties have complied with all federal and state laws and regulations applicable to them, and

that such documents have been duly authorized, executed and delivered by, and constitute legal, valid and binding obligations of, such parties. For purposes of our opinions above insofar as they relate to the University, except as expressly otherwise provided in the opinions above with respect to filings, registrations, approvals or consents of a governmental agency or authority of the State of Iowa, we have assumed that the University has obtained all requisite third party and governmental authorizations, consents and approvals, and made all requisite filings and registrations, necessary to execute, deliver and perform the Transaction Documents. Except for the opinions provided above, we express no opinion and make no statements concerning any state or federal law, rule, regulation, order, decree or judgment, or any instrument or agreement, binding upon or applicable to the University or its properties.

H. The opinions expressed in this opinion letter are limited to the laws of the State of Iowa.

I. We express no opinion as to environmental, securities, pension or benefit, labor, antitrust or unfair competition laws; the statutes, ordinances, administrative decisions, rules, regulations or requirements of any county, municipality, public utility commission, subdivision or local authority of any jurisdiction (including, without limitation, zoning, subdivision or other development related laws or rules); or tax laws, including without limitation, laws relating to franchise, income, transfer, mortgage or other taxes.

J. Our opinions are limited to those expressly set forth herein, and we express no opinions by implication. This opinion letter speaks only as of the date hereof, and we have no responsibility or obligation to update this opinion letter, to consider its applicability or correctness to any person or entity other than its addressee, or to take into account changes in law, facts or any other developments of which we may later become aware.

K. The opinions expressed herein are solely for the benefit of the addressee hereof, and solely in connection with the transaction referred to herein, and may not be relied on by such addressee for any other purpose or in any manner or for any purpose by any other person or entity.

Very truly yours,

Carroll J. Reasoner
Vice President for Legal Affairs
and General Counsel

_____, 2020

P3 Concessionaire

Re: Long-Term Lease and Concession Agreement
for University of Iowa Utility System

Ladies and Gentlemen:

I am the Board Counsel for the Board of Regents, State of Iowa (the “Board of Regents”), in connection with the Long-Term Lease and Concession Agreement for the University of Iowa Utility System, dated December ___, 2019 (the “Concession Agreement”), by and among the Board of Regents, the University of Iowa, a state supported public research and educational institution in Iowa City, Iowa (the “University”) and _____ (the “Concessionaire”). This opinion letter is delivered to you pursuant to Section 2.4(a)(iv) of the Concession Agreement. Capitalized terms used herein and not otherwise defined herein have the meanings assigned to such terms in the Concession Agreement. With your permission, all assumptions and statements of reliance herein have been made without any independent investigation on our part except to the extent, if any, otherwise expressly stated herein, and we express no opinion with respect to the subject matter or accuracy of the assumptions or items upon which we have relied.

In connection with the opinions expressed herein, we have examined the following documents:

- (i) an executed copy of the Concession Agreement;
- (ii) an executed copy of the Memorandum of Lease Agreement, dated the same date as this letter (“Memorandum of Lease”) and, together with the Concession Agreement, the “Transaction Documents”), by and among, the Board of Regents, the University and the Concessionaire; and
- (iii) a copy of the resolution passed by the Board of Regents, State of Iowa, (Resolution No. _____), on December ___, 2019 and entitled Authorization of the Long Term Lease and Concession Agreement for the University of Iowa Utility System (the “Resolutions”).

In all such examinations, we have assumed the legal capacity of all natural persons executing documents, the genuineness of all signatures (other than those of the Board of Regents) on the Transaction Documents, the authenticity of original and certified documents, and the conformity to original documents of all copies submitted to us as conformed or reproduction copies. Without limiting the foregoing, we have assumed that all public records furnished to us are true, correct, and complete copies thereof and that such records have not been amended, modified or supplemented. As to various questions of fact relevant to the opinions expressed herein, we have relied upon, and assume the accuracy of, representations and warranties contained in the Transaction Documents and certificates and oral or written statements and other information of or from representatives of the Board of Regents and others, and we have assumed compliance on the part of the Board of Regents with its covenants and agreements contained therein.

Based upon the foregoing, and subject to the limitations, qualifications and assumptions set forth herein, we are of the opinion that:

- (a) The Board of Regents is an instrumentality of the State of Iowa as authorized by Chapter 262 of the Code of Iowa.
- (b) The Board of Regents has the power and authority under Iowa law to enter into the Transaction Documents and to perform its obligations under the Concession Agreement.
- (c) The execution and delivery to the Concessionaire by the Board of Regents of the Transaction Documents and the performance by the Board of Regents of its obligations under the Concession Agreement have been duly authorized by all necessary action on behalf of the Board of Regents.
- (d) The Transaction Documents have been duly executed and delivered on behalf of the Board of Regents, and the Concession Agreement constitutes a valid and binding obligation of the Board of Regents, enforceable against the Board of Regents in accordance with its terms.
- (e) You have requested our advice as to whether a state court of the State of Iowa would give effect to the choice of law provision contained in Section 20.6 of the Concession Agreement (collectively, the “Choice of Law Provision”). In general, Iowa courts have validated contractual choice of law stipulations, following Restatement (Second) of Conflict of Laws, Section 187, which permits the parties to agree on the law to be applied to a contract in most cases so long as it does not override the public policy of a state having a materially greater interest in the transaction or the chosen state has no substantial relationship to the parties.
- (f) The execution and delivery to the Concessionaire by the Board of Regents of the Transaction Documents and the performance by the Board of Regents of its obligations under the Concession Agreement do not require under present law, or present regulation of any governmental agency or authority, of the State of Iowa, any filing or registration by the Board of Regents with, or approval or consent to the Board of Regents of, any governmental agency or authority of the State of Iowa that has not been made or obtained except those required in the ordinary course of business in connection with the performance by the Board of Regents of its obligations under certain covenants contained in the Concession Agreement.

The opinions set forth above are subject to the following limitations, qualifications and assumptions:

A. Our opinions in paragraph (d) above are subject to: (i) any applicable bankruptcy, insolvency, reorganization, fraudulent transfer and conveyance, voidable preference, moratorium, receivership, conservatorship, arrangement or similar laws, and related regulations and judicial doctrines, from time to time in effect affecting creditors’ rights and remedies generally or affecting the rights and remedies of creditors of a state instrumentality; (ii) general principles of equity (including, without limitation, standards of materiality, good faith, fair dealing and reasonableness, equitable defenses, the exercise of judicial discretion and limits on the availability of equitable remedies, including without limitation specific performance), whether such principles are considered in a proceeding at law or in equity; and (iii) the qualification that certain other provisions of the Concession Agreement may be subject to limitations or rendered

unenforceable, in either case, in whole or in part under the laws (including judicial decisions) of the State of Iowa, but such limitations or unenforceability, as the case may be, do not make the remedies that will be afforded to the Concessionaire inadequate for the practical realization of the substantive benefits purported to be provided to the Concessionaire by the Concession Agreement, in each case, subject to the other limitations, qualifications and assumptions set forth in this opinion letter.

B. We express no opinion as to the enforceability of any provision in the Concession Agreement:

(i) establishing standards for the performance of the obligations of good faith, diligence, reasonableness and care prescribed by any applicable laws;

(ii) relating to indemnification, contribution, exculpation or provisions of similar effect (a) in connection with violations of any securities laws or statutory duties or public policy, (b) relating to the performance or nonperformance of a public duty, or (c) in connection with willful, reckless or unlawful acts or gross negligence of the indemnified or exculpated party or the party receiving contribution;

(iii) providing that any person or entity may exercise set-off rights other than in accordance with and pursuant to applicable law;

(iv) purporting to confer, or constituting an agreement with respect to, the jurisdiction of any court or courts to adjudicate any matter;

(v) purporting to create a trust or other fiduciary relationship;

(vi) specifying that provisions thereof may be waived only in writing, to the extent that an oral agreement or an implied agreement by trade practice or course of conduct has been created that modifies any provision of the Concession Agreement;

(vii) providing for the payment of attorneys' fees;

(viii) waiving any statute of limitations;

(ix) restricting the Board of Regents from access to legal or equitable remedies;

(x) providing for mediation;

(xi) relating to the liability of or damages with respect to the Board of Regents or any employees or agents of the Board of Regents to the extent the liability of or damages with respect to such entities or individuals is prescribed or limited by Chapter 669 Code of Iowa; and

(xii) relating to capital improvements or additions, alterations, improvements (structural, capital or otherwise) to be constructed or erected or heating, cooling or ventilating plants, equipment or material (including, without limitation, energy conservation measures) to be supplied or installed with respect to the Utility System, to the extent any such items are not administered in accordance with applicable law.

C. We note that our opinions in paragraph (d) above as they relate to indemnification, contribution, exculpation or provisions of similar effect in the Concession Agreement are limited by Section 12.12 of the Concession Agreement and applicable law.

D. Our opinions as to enforceability are subject to the effect of generally applicable rules of law that:

(i) provide that forum selection clauses in contracts are not necessarily binding on the court(s) in the forum selected; and

(ii) may, where less than all of a contract may be unenforceable, limit the enforceability of the balance of the contract to circumstances in which the unenforceable portion is not an essential part of the agreed exchange, or that permit a court to reserve to itself a decision as to whether any provision of any agreement is severable.

E. We express no opinion as to the enforceability of any purported waiver, release, variation, disclaimer, or other agreement to similar effect (all of the foregoing, collectively, a “Waiver”) by the Board of Regents under the Concession Agreement to the extent limited by any provisions of applicable law (including judicial decisions), or to the extent that such a Waiver applies to a right, claim, duty or defense or a ground for, or a circumstance that would operate as, a discharge or release otherwise existing or occurring as a matter of law (including judicial decisions), except to the extent that such a Waiver is effective under and is not prohibited by or void or invalid under provisions of applicable law (including judicial decisions).

F. We express no opinions whatsoever as to any matters relating to: (i) the creation, attachment, perfection or priority of any security interests, liens, restrictions, mortgages easements or other encumbrances referenced in, or intended or purported to be created pursuant to, the Transaction Documents; (ii) the existence of any security interests, liens, restrictions, mortgages, easements or other encumbrances with respect to all or any part of the Utility System or the consequences of failure to comply with the terms of any such security interest, lien, restriction, mortgage, easement or encumbrance; and (iii) the status of title to all or any part of the Utility System.

G. To the extent it may be relevant to the opinions expressed herein, we have assumed that the parties to the Transaction Documents (other than the Board of Regents) have the power to enter into and perform such documents and to consummate the transactions contemplated thereby, that such parties have complied with all federal and state laws and regulations applicable to them, and that such documents have been duly authorized, executed and delivered by, and constitute legal, valid and binding obligations of, such parties. For purposes of our opinions above insofar as they relate to the Board of Regents, except as expressly otherwise provided in the opinions above with respect to filings, registrations, approvals or consents of a governmental agency or authority of the State of Iowa, we have assumed that the Board of Regents has obtained all requisite third party and governmental authorizations, consents and approvals, and made all requisite filings and registrations, necessary to execute, deliver and perform the Transaction Documents. Except for the opinions provided above, we express no opinion and make no statements concerning any state or federal law, rule, regulation, order,

decree or judgment, or any instrument or agreement, binding upon or applicable to the Board of Regents or its properties.

H. The opinions expressed in this opinion letter are limited to the laws of the State of Iowa.

I. We express no opinion as to environmental, securities, pension or benefit, labor, antitrust or unfair competition laws; the statutes, ordinances, administrative decisions, rules, regulations or requirements of any county, municipality, public utility commission, subdivision or local authority of any jurisdiction (including, without limitation, zoning, subdivision or other development related laws or rules); or tax laws, including without limitation, laws relating to franchise, income, transfer, mortgage or other taxes.

J. Our opinions are limited to those expressly set forth herein, and we express no opinions by implication. This opinion letter speaks only as of the date hereof, and we have no responsibility or obligation to update this opinion letter, to consider its applicability or correctness to any person or entity other than its addressee, or to take into account changes in law, facts or any other developments of which we may later become aware.

K. The opinions expressed herein are solely for the benefit of the addressee hereof, and solely in connection with the transaction referred to herein, and may not be relied on by such addressee for any other purpose or in any manner or for any purpose by any other person or entity.

Very truly yours,

Aimee Claeys
Board Counsel, Board of Regents

SCHEDULE 8

FORM OF LEGAL OPINION OF COUNSEL TO THE CONCESSIONAIRE

To: University of Iowa
[5 West Jefferson Street]
Iowa City, Iowa 52240

1221 Avenue of the Americas
New York NY 10020

Tel +1 212 610 6300
Fax +1 212 610 6399
www.allenoverly.com

Our ref NY:36014216.3

[●], 2020

Ladies and Gentlemen,

We have acted as special New York counsel to University of Iowa Energy Collaborative LLC, a Delaware limited liability company (the **Company**), in connection with the Long-Term Lease and Concession Agreement for the University of Iowa Utility System, dated as of December [10], 2019, by and among the University of Iowa; the Board of Regents, State of Iowa; and the Company (the **Concession Agreement**).

This opinion letter is delivered to you pursuant to Section 2.4(b)(iii) of the Concession Agreement. Capitalized terms used but not otherwise defined in this opinion letter shall have the respective meanings assigned thereto in the Concession Agreement.

(A) SCOPE OF REVIEW AND RELIANCE

For purposes of this opinion letter, we have reviewed such documents and made such other investigation as we have deemed appropriate. As to certain matters of fact material to the opinions expressed, we have relied on the representations and statements of fact made in the Concession Agreement, certificates of public officials and officers' certificates and documents provided by the Company and others. We have not independently established the facts so relied on.

(B) ASSUMPTIONS

We have made the following assumptions, which we have not independently verified or established and on which we express no opinion:

1. We have assumed the legal capacity of all signatories, the genuineness of all signatures, the conformity to original documents and the completeness of all documents submitted to us as copies or received by us by facsimile or other electronic transmission, and the authenticity and completeness of the originals of those documents and of all documents submitted to us as originals.

2. We have assumed, to the extent we have not expressly opined thereon below, that each party to the Concession Agreement is duly organized and validly existing, has the power and authority to execute, deliver and perform the Concession Agreement, has taken all action necessary to authorize the execution, delivery and performance of the Concession Agreement, and has duly executed and delivered the Concession Agreement, and that the Concession Agreement constitutes legally valid and binding obligations of the parties to it under all applicable law, enforceable against those parties in accordance with its terms.
3. We have been retained as special New York counsel to the Company in connection with the transactions contemplated by the Concession Agreement. Accordingly, we understand that you are relying on the opinion of Lane & Waterman LLP for matters relating to Iowa law.
4. We have assumed that, except to the extent covered by our opinion in paragraph C.5 below, all authorizations, approvals and consents of, and all filings and registrations with, governmental and regulatory authorities and agencies required for the execution, delivery and performance of the Concession Agreement have been obtained or made. We have assumed that the Company is not party to any agreement, or subject to any writ or order, that might affect any of our opinions below.

(C) OPINIONS

Based on the foregoing and subject to the limitations and qualifications below, we are of the opinion that:

1. The Company is a limited liability company duly formed and validly existing under the Delaware Limited Liability Company Act.
2. The Company:
 - (a) has the power and capacity as a limited liability company to execute, deliver and perform the Concession Agreement;
 - (b) has taken all limited liability company action necessary to authorize the execution, delivery and performance of the Concession Agreement; and
 - (c) has duly executed and delivered the Concession Agreement.
3. The execution and delivery by the Company of the Concession Agreement do not, and the performance by the Company of its obligations under the Concession Agreement will not, result in any violation of the certificate of formation, the limited liability company agreement of the Company in effect as of the date hereof, the Operations and Maintenance Agreement dated as of [●], by and between the Company and ENGIE Holdings, Inc., the Note Purchase Agreement dated as of [●], by and among the Company and the note purchasers party thereto, or the Credit Facility Agreement dated as of [●], by and among the Company, the lenders party thereto and [●] in its capacity as administrative agent thereunder.
4. The execution and delivery by the Company of the Concession Agreement do not, and the performance by the Company of its obligations under the Concession Agreement will not, result in any violation of any federal law of the United States or the Delaware Limited Liability Company Act.

5. No authorization, approval or consent of, and no filing or registration with, any governmental or regulatory authority or agency of the State of Delaware or the United States is required on the part of the Company for the execution, delivery or performance by the Company of the Concession Agreement.

(D) LIMITATIONS AND QUALIFICATIONS

1. Our opinions are subject to bankruptcy, insolvency, reorganization, fraudulent conveyance, preference, equitable subordination, moratorium and other similar laws affecting the rights and remedies of creditors generally and to possible judicial action giving effect to governmental actions or foreign laws affecting creditors' rights. Our opinions are also subject to the effect of general principles of equity, including without limitation concepts of materiality, reasonableness, good faith and fair dealing, regardless of whether considered in a proceeding in equity or at law. We give no opinion as to the availability of equitable remedies.
2. We are admitted to practice in the State of New York, and our opinions are limited to the federal law of the United States and the Delaware Limited Liability Company Act. In addition, our opinions do not address the effect on our opinions of laws not addressed by our opinions. Our opinions do not cover or address the tax laws or regulations of the United States, the State of New York or any other jurisdiction, and none of our other opinions should be construed, directly or indirectly, as tax advice.

This opinion letter is being delivered to you in connection with the transaction described in the Concession Agreement and may not be relied on by you for any other purpose. This opinion letter may not be relied on by any other person without our prior written consent.

Sincerely yours,

Joe R. Lane (1858-1931)
Charles M. Waterman (1847-1924)
Robert V. P. Waterman, Jr.
R. Scott Van Vooren
Richard A. Davidson
Michael P. Byrne
Edmund H. Carroll
Theodore F. Olt III
Jeffrey B. Lang
Judith L. Herrmann
Robert B. McMonagle
Joseph C. Judge
Jason J. O'Rourke
Troy A. Howell
Mikkie R. Schiltz
Diane E. Puthoff
Wendy S. Meyer
Ian J. Russell
Benjamin J. Patterson
Douglas R. Lindstrom, Jr.
Abbey C. Furlong
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Joshua J. McIntyre
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LANE & WATERMAN LLP
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Curtis E. Beason*
Terry M. Giebelstein
Diane M. Reinsch
Courtney M. Kay-Decker

Admitted in Iowa and Illinois

*Only Admitted in Iowa

Illinois Office
3551 7th Street,
Moline, IL 61265

The University of Iowa
105 Jessup Hall
Iowa City, Iowa 52242

Re: Long-Term Lease and Concession Agreement for The University of Iowa Utility System

Ladies and Gentlemen:

We have acted as special local Iowa counsel to University of Iowa Energy Collaborative LLC, a Delaware limited liability company (the “Concessionaire”) in connection with the Long-Term Lease and Concession Agreement for the University of Iowa Utility System dated as of _____ (the “Concession Agreement”) by and among the Concessionaire, the Board of Regents, State of Iowa, an instrumentality of the State of Iowa (the “BOR”) and the University of Iowa² a state institution (the “University”). This opinion letter is delivered to you pursuant to Section 2.4(b)(iii) of the Concession Agreement. Capitalized terms used herein and not otherwise defined herein have the meaning assigned to such terms in the Concession Agreement. All assumptions and statements of reliance herein have been made without any independent investigation to verify or establish their accuracy on our part except to the extent, if any, otherwise expressly stated herein, and we express no opinion with respect to the subject matter or accuracy of the assumptions or items upon which we have relied.

In connection with the opinions expressed herein, and in our limited capacity as local Iowa counsel, we have examined the following documents:

² Also legally known as the State University of Iowa.

(i) an executed copy of the Concession Agreement, including all relevant exhibits, schedules and appendices;

(ii) an executed copy of the Memorandum of Lease Agreement by and among the University, the BOR and the Concessionaire, dated the same as this letter (the “Memorandum of Lease” and, together with the Concession Agreement, the “Transaction Documents”);

(iii) a copy of the certificate of formation of the Concessionaire certified by the Delaware Secretary of State dated _____, the limited liability company agreement of the Concessionaire dated _____, a Certificate of Good Standing issued by the Delaware Secretary of State dated _____, a Certificate of Authority issued by the Iowa Secretary of State dated _____ and a Certificate of Standing issued by the Iowa Secretary of State dated _____, (collectively, the “Organizational Documents”), all of which were certified to us as of the date hereof by an officer of the Concessionaire as being true, correct and complete, not having been amended, modified, supplemented or repealed, and in full force and effect;

(iv) a copy of the resolutions of the Concessionaire dated as of _____ (the “Resolutions”), certified to us as of the date hereof by an officer of the Concessionaire as being duly authorized and adopted by the Concessionaire to authorize the consummation of the transactions contemplated by the Transaction Documents and the execution and delivery of same to the University;

(v) a copy of the Responsible Officer’s certificate dated as of _____ (the “Responsible Officer’s Certificate”) certifying as to the accuracy and completeness of the Organizational Documents and the Resolutions, as well as certifying as to the identity of the individuals authorized to represent the Company;

(vi) a copy of the litigation search results in the Iowa District Court in and for Johnson County with respect to the Concessionaire dated _____ (the “Litigation Search”); and

(vii) a copy of the opinion provided by Allen & Overy LLP dated _____ opining as to certain matters with respect to the Concessionaire, including its power and authority to enter into the Transaction Documents and to perform its obligations thereto.

In all such examinations, we have assumed the legal capacity of all natural persons executing documents, the genuineness of all signatures (other than those of the Concessionaire) on the Transaction Documents, the authenticity of original and certified documents, and the conformity to original documents of all copies submitted to us as conformed or reproduction copies. Without limiting the foregoing, we have assumed that all public and non-public records furnished to us (including, without limitation, the Resolutions, the Organizational Documents, and the Responsible Officer’s Certificate) are true, correct, and complete copies thereof and that such records have not been amended, modified or supplemented. We have assumed that all terms and conditions of, or relating to, the transactions contemplated by the Transaction Documents are correctly and completely embodied in the Transaction Documents, and they have not been amended by oral or written agreements not revealed to us, by conduct of the parties thereto, or

otherwise. Further, no course of dealing or other circumstances or events has altered the terms, validity, or enforceability of the Transaction Documents. We have assumed there has been no mutual mistake of fact or misunderstanding, fraud, duress or undue influence with respect to the Transaction Documents. As to various questions of fact relevant to the opinions expressed herein, we have relied upon, and assume the accuracy of, representations and warranties contained in the Transaction Documents and certificates and oral or written statements and other information of or from representatives of the University and others, and we have assumed compliance on the part of the Concessionaire with its covenants and agreements contained therein. With respect to formation, power and authority of the Concessionaire under Delaware law, we have relied, with your permission, upon the Opinion of Allen & Overy LLP.

Based upon the foregoing, and subject to the limitations, qualifications and assumptions set forth herein, we are of the opinion that:

(a) The execution and delivery to the BOR and the University by the Concessionaire of the Transaction Documents and the performance by the Concessionaire of its obligations under the Concession Agreement have been duly authorized by all necessary action on behalf of the Concessionaire.

(b) The Transaction Documents have been duly executed and delivered on behalf of the Concessionaire, and the Concession Agreement constitutes a valid and binding obligation of the Concessionaire, enforceable against the Concessionaire in accordance with its terms.

(c) The Concessionaire is duly authorized to do business as a foreign limited liability company under the laws of the State of Iowa.

(d) The execution and delivery of the Concession Agreement by the Concessionaire, and the consummation of the Concessionaire of the transactions contemplated thereby, do not, to the knowledge of our attorneys working on this opinion letter, violate or constitute on the part of the Concessionaire a breach or default under any of the following: (i) any applicable provisions of statutory law or regulation to which foreign limited liability companies qualified to do business in Iowa are generally subject or (ii) any order, judgment or decree of any court, governmental agency or authority of Iowa to which the Concessionaire is subject.

(e) Based solely on the Litigation Search and to the knowledge of our attorneys working on this opinion letter, the Concessionaire is not a party to any litigation in Iowa District Court in and for Johnson County as of the date of such Litigation Search.

The opinions set forth above are subject to the following limitations, qualifications and assumptions:

A. Our opinions in paragraph (b) above are subject to and enforceability of the Concession Agreement may be limited by: (i) any applicable bankruptcy, insolvency, reorganization, fraudulent transfer and conveyance, voidable preference, moratorium, receivership, conservatorship, arrangement or similar laws, and related regulations and judicial doctrines, from time to time in effect affecting creditors' rights and remedies generally or

affecting the rights and remedies of creditors of an Iowa state institution; (ii) the valid exercise of sovereign powers of the United States or any other governmental entity; (iii) general principles of equity (including, without limitation, standards of materiality, good faith, fair dealing and reasonableness, equitable defenses, the exercise of judicial discretion and limits on the availability of equitable remedies, including without limitation specific performance), whether such principles are considered in a proceeding at law or in equity; (iv) the inherent authority of a court of equity to deny enforcement of any provision thereof on equitable grounds and by public policy; and (v) the qualification that certain other provisions of the Concession Agreement may be subject to limitations or rendered unenforceable, in either case, in whole or in part under the laws (including judicial decisions) of the State of Iowa, but such limitations or unenforceability, as the case may be, do not make the remedies that will be afforded to the University inadequate for the practical realization of the substantive benefits purported to be provided to the University by the Concession Agreement, in each case, subject to the other limitations, qualifications and assumptions set forth in this opinion letter. Without limiting the foregoing, we disclaim any opinion as to the possible effect of Sections 547 and 548 of the United States Bankruptcy Code, 11 U.S.C. §§ 547 and 548, or of any state fraudulent conveyance or transfer acts, or other similar provisions of law, upon the validity or enforceability of the Concession Agreement.

B. We have assumed the Transaction Documents were executed, delivered, and accepted by the parties thereto in the State of Iowa. Further, we assume that a state court in the State of Iowa would give effect to the choice of law provisions contained in Section 20.6 of the Concession Agreement, as well as the submission of jurisdiction in Section 20.7. In addition, we have assumed that the Memorandum of Lease has been duly recorded in Johnson County, Iowa, and that any other requirements under the laws of the State of Iowa for the creation and enforceability of any security interest created with respect to the Transaction Documents have been satisfied.

C. We express no opinion as to the enforceability of any provision in the Concession Agreement:

(i) establishing standards for the performance of the obligations of good faith, fair dealing, diligence, reasonableness, and care prescribed by any applicable laws;

(ii) relating to indemnification, contribution, exculpation or provisions of similar effect (a) in connection with violations of any securities laws or statutory duties or public policy, (b) relating to the performance or nonperformance of a public duty, or (c) in connection with willful, reckless or unlawful acts or gross negligence of the indemnified or exculpated party or the party receiving contribution;

(iii) providing that any person or entity may exercise set-off rights other than in accordance with and pursuant to applicable law;

(iv) purporting to confer, or constituting an agreement with respect to, the jurisdiction of any court or courts to adjudicate any matter;

(v) purporting to create a trust or other fiduciary relationship;

(vi) specifying that provisions thereof may be waived only in writing, to the extent that an oral agreement or an implied agreement by trade practice or course of conduct has been created that modifies any provision of the Concession Agreement;

(vii) providing for the payment of attorneys' fees;

(viii) waiving any statute of limitations;

(ix) restricting the Concessionaire from access to legal or equitable remedies;

(x) providing for mediation or waiving the right to trial by jury or any other legal rights which may not be waived under applicable law;

(xi) granting any party a power of attorney to act on behalf of any other party;

(xii) relating to the liability of or damages with respect to the University, the BOR or any employees or agents of the University or the BOR to the extent the liability of or damages with respect to such entities or individuals is prescribed or limited by Iowa law;

(xiii) relating to capital improvements or additions, alterations, improvements (structural, capital or otherwise) to be constructed or erected or heating, cooling or ventilating plants, equipment or material (including, without limitation, energy conservation measures) to be supplied or installed with respect to the Utility System, to the extent any such items are not administered in accordance with applicable law.

D. We note that our opinions in paragraph (d) above as they relate to indemnification, contribution, exculpation or provisions of similar effect in the Concession Agreement are limited by Section 12.12 of the Concession Agreement and applicable law.

E. Our opinions as to enforceability are subject to the effect of generally applicable rules of law that:

(i) provide that forum selection clauses in contracts are not necessarily binding on the court(s) in the forum selected; and

(ii) may, where less than all of a contract may be unenforceable, limit the enforceability of the balance of the contract to circumstances in which the unenforceable portion is not an essential part of the agreed exchange, or that permit a court to reserve to itself a decision as to whether any provision of any agreement is severable.

F. We express no opinion as to enforceability of any purported waiver, release, variation, disclaimer, or other agreement to similar effect (all of the foregoing, collectively, a "Waiver") by the Concessionaire under the Concession Agreement to the extent limited by any provision of applicable law (including judicial decisions), or to the extent that such a Waiver applies to a right, claim, duty or defense or a ground for, or a circumstance that would operate as,

a discharge or release otherwise existing or occurring as a matter of law (including judicial decisions), except to the extent that such a Waiver is effective under and is not prohibited by or void or invalid under provisions of applicable law (including judicial decisions).

G. We express no opinions whatsoever as to any matters relating to: (i) the creation, attachment, perfection or priority of any security interests, liens, restrictions, mortgages, easements, rights of way or other encumbrances referenced in, or intended or purported to be created pursuant to, the Transaction Documents; (ii) the existence of any security interests, liens, restrictions, mortgages, easements or other encumbrances with respect to all or any part of the Utility System or the consequences of failure to comply with the terms of any such security interest, lien restriction, mortgage, easement or encumbrance; and (iii) the status of title to all or any part of the Utility System.

H. To the extent it may be relevant to the opinions expressed herein, we have assumed that the parties to the Transaction Documents (other than the Concessionaire) have the power to enter into and perform such documents and to consummate the transactions contemplated thereby, that such parties have complied with all federal and state laws and regulations applicable to them, and that such documents have been duly authorized, executed and delivered by, and constitute legal, valid and binding obligations of, such parties. For purposes of our opinions above insofar as they related to the Concessionaire, except as expressly otherwise provided in the opinions above with respect to filings, registrations, approvals or consents of the Concessionaire, we have assumed that the Concessionaire has obtained all requisite third party and governmental authorizations, consents and approvals, and made all requisite filings and registrations, necessary to execute, deliver and perform the Transaction Documents. Except for the opinions provided above, we express no opinion and make no statements concerning any state or federal law, rule, regulation, order, decree or judgment, or any instrument or agreement, binding upon or applicable to the Concessionaire or its assets.

I. The opinions expressed in this opinion letter are limited to the laws of the State of Iowa in effect as of the date of this opinion letter.

J. We express no opinion as to federal or state environmental, securities, pension or benefit, labor, antitrust or unfair competition laws, or public utility laws; the statutes, ordinances, administrative decisions, rules, regulations or requirements of any state, county, municipality, public utility commission, subdivision or local authority of any jurisdiction (including, without limitations, zoning, subdivision or other development related laws or rules, licensure, franchise, tariff filings, the issuance of equity or debt securities or other operating or other approvals); or federal, state or local tax laws, including without limitation, laws relating to franchise, income, transfer, mortgage or other taxes.

K. With respect to our opinion in paragraph (d), we have relied solely upon the Litigation Search, the Certificate of Authority issued by the Iowa Secretary of State dated _____, the Certificate of Standing issued by the Iowa Secretary of State dated _____, and on the Responsible Officer's Certificate, and, except for the Litigation Search, we have not reviewed the indices of any court or governmental body, agency or authority.

L. Our opinion in paragraph (e) is based solely on our review of the Litigation Search as of the date of such Litigation Search.

M. Our opinions are limited to those expressly set forth herein, and we express no opinions by implication. This opinion letter speaks only as of the date hereof, and we have no responsibility or obligation to update this opinion letter, to consider its applicability or correctness to any person or entity other than its addressee, or to take into account changes in law, facts or any other developments of which we may later become aware.

N. The opinions expressed herein are solely for the benefit of the addressee hereof, and solely in connection with the transaction referred to herein, and may not be used, circulated, quoted or relied upon by such addressee for any other purpose or in any manner or for any purpose by any other person or entity without our written consent.

Very truly yours,

LANE & WATERMAN LLP

SCHEDULE 9

FINANCIAL INFORMATION

Expense Summary	FY 2017	FY 2018	FY 2019
Labor			
Utility Shop	\$13,198,118	\$14,498,860	\$14,520,528
Non-Utility Shop	226,615	334,786	253,787
Less: Campus Billing Adjustments	(1,320,409)	(1,353,280)	(1,755,435)
Less: P3 Support Staff	(1,249,000)	(1,249,000)	(1,249,000)
Total Labor	\$10,855,323	\$12,231,366	\$11,769,880
O&M - Contracts			
Operations	\$295,212	\$263,221	\$182,865
Maintenance	2,307,280	1,989,032	1,636,155
Ash Disposal	255,577	219,011	282,567
Total O&M Contracts	\$2,858,069	\$2,471,265	\$2,101,587
O&M - Materials			
Operations	\$2,700,521	\$3,665,130	\$2,881,845
Maintenance	2,640,392	2,183,007	2,419,496
Lime Supply	220,489	171,289	157,816
Less: Miscanthus Costs Reclass to Fuels	(556,146)	(1,821,687)	(1,023,159)
Less: Temp Boiler in Lot 11 Gas Reclass to Fuels	(333,034)	(369,906)	(379,816)
Total O&M Materials	\$4,672,222	\$3,827,832	\$4,056,181
O&M - Miscellaneous			
Sewer Service	\$227,873	\$202,645	\$454,599
Fire Protection	27,626	28,487	29,274
Refuse Service	12,944	10,750	9,087
Environmental Waste Service	(189,407)	(174,015)	(191,338)
Warehouse Lease (IRA)	232,940	232,940	232,940
Insurance (General Liability, Umbrella and Cyber)	432,500	432,500	432,500
Other Operational Expenses	120,188	556,066	592,792
Total O&M Miscellaneous	\$864,664	\$1,289,373	\$1,559,854
Total Capped O&M	\$19,250,278	\$19,819,836	\$19,487,502
Commodities Purchased			
Fuel Costs	\$12,285,610	\$14,476,924	\$15,194,372
Purchased Electricity	16,639,437	16,880,161	17,324,135
Total Commodities	\$28,925,047	\$31,357,085	\$32,518,506
Other Expenses			
Insurance Coverage	\$1,681,307	\$1,681,310	\$1,681,312
Sewer / Fire / Refuse / Environmental Waste & Incineration	5,177,288	5,314,207	5,256,564
Non-Utility FM Overhead Support Staff Supplement	1,342,509	1,070,309	1,182,316
University P3 Support Staff	1,263,695	1,260,188	1,255,875
Total Other Expenses	\$9,464,799	\$9,326,013	\$9,376,067
Total University Utility Cost	\$38,389,846	\$40,683,098	\$41,894,573
Grand Total University Cost	\$57,640,124	\$60,502,934	\$61,382,075

SCHEDULE 10
PERMITTED UNIVERSITY ENCUMBRANCES

**SCHEDULE B, PART II
EXCEPTIONS**

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDITION, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDITION, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

General Exceptions:

1. Rights or claims of parties in possession not shown by Public Records.
2. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the Land.
3. Easements, or claims of easements, not shown by the Public Records.
4. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.
5. Taxes or special assessments which are not shown as existing liens by the Public Records.
6. The Company should be furnished a properly executed ALTA statement and, unless the land insured is a condominium unit, a survey if available. Matters disclosed by the above documentation will be shown specifically.
7. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I -Requirements are met.

Special Exceptions:

1. Taxes for the Fiscal Year 2018-2019

Parcel No. [0625152004](#). (Tract I, Parcel 1)
Lot 1 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625152003](#). (Tract I, Parcel 2)
Lot 2 Oakdale Research Park.
First Installment in the amount of \$0.00.

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(continued)

Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625152002](#). (Tract I, Parcel 3)
Lot 3 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625127007](#). (Tract I, Parcel 4)
Lot 4 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625128004](#). (Tract I, Parcel 6)
Lot 6 Oakdale Research Park Ex Land Conveyed to City for Crosspark Rd Desc Bk5195 Pg945. First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625128003](#). (Tract I, Parcel 7)
Lot 7 Oakdale Research Park Ex Land Conveyed to City for Crosspark Rd Desc Bk5195 Pg945. First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2479 Crosspark Road, Coralville, IA 52241.

Parcel No. [0625126002](#). (Tract I, Parcel 8)
Lot 8 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2600 University Parkway, Coralville, IA 52241.

Parcel No. [0625126003](#). (Tract I, Parcel 9)
Lot 9 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

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(continued)

Parcel No. [0625151003](#). (Tract I, Parcel 10)
Lot 10 Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available.

Parcel No. [0625128004](#). (Tract I, Parcel 11)
Lot A Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available.

Parcel No. [06251151002](#). (Tract I, Parcel 12)
Lot B Oakdale Research Park.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625176002](#). (Tract II, Parcel 1)
Lot 11 Oakdale Research Park SD Phase 2.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2451 Oakdale Boulevard, Coralville, IA 52241.

Parcel No. [0625401005](#). (Tract II, Parcel 2)
Lot 21 Oakdale Research Park SD Phase 2.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available.

Parcel No. [0625401004](#). (Tract II, Parcel 3)
Lot 22 Oakdale Research Park SD Phase 2.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625401003](#). (Tract II, Parcel 4)
Lot 23 Oakdale Research Park SD Phase 2 that Pt in NESE 25-80-7.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

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(continued)

Parcel No. [0730331002](#). (Tract II, Parcel 4)
Lot 23 Oakdale Research Park SD Phase 2 that Pt in NWSW 30-80-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0730331001](#). (Tract II, Parcel 5)
Lot 24 Oakdale Research Park SD Phase 2.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625177002](#). (Tract III, Parcel 1)
Lot 1 Oakdale Research Park SD Phase 4.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0625177001](#) (Tract III, Parcel 2)
Lot 2 Oakdale Research Park SD Phase 4 Pt in SENE 25-80-7.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00. Assessed in the name of Board of Regents State of Iowa
Address currently known as: Not Available.

Parcel No. [0730260001](#). (Tract III, Parcel 2)
Lot 2 Oakdale Research Park SD Phase 4 Pt in SWNW 30-80-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 0730261002. (Tract IV, Parcel 1)
Lot 25 Oakdale Research Park SD - Phase 5.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [0730261001](#). (Tract IV, Parcel 2)
Lot 26 Oakdale Research Park SD - Phase 5.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2301 Oakdale Boulevard, Coralville, IA 52241.

Parcel No. [0625427001](#). (Tract V, Parcel 1)
Lot 1 Oakdale West First Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2000 Crosspark Road, Coralville, IA 52241.

Parcel No. [0625427002](#). (Tract V, Parcel 2)
Lot 2 Oakdale West First Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2525 Holiday Court, Coralville, IA 52241.

Parcel No. [0625427003](#). (Tract V, Parcel 3)
Lot 3 Oakdale West First Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2575 Holiday Road, Coralville, IA 52241.

2. Transmission Easement in favor of Central Iowa Power Cooperative, its successors and assigns, as granted by Instrument dated March 13, 1964 and recorded June 16, 1964 in Record Book [230, page 321](#), over and across a portion of the premises; and with the terms and provisions therein contained.
3. Water Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated September 19, 1985 and recorded November 6, 1985 in Record Book [811, page 183](#), over and across a portion of the premises; and with the terms and provisions therein contained.
4. Terms and provisions of the lease from Iowa State Board of Regents, Lessor, to University of Iowa Research Park Corporation, Lessee, dated March 15, 1989 and recorded August 30, 1989 in Record Book 1079, page 490 and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee.

And Amendment to Ground Lease Agreement recorded June 1, 1990 in Record Book 2497, page 69;

And Amendment to Ground Lease Agreement recorded February 27, 2007 in Record Book 4132, page 608;

And Third Amendment to Ground Lease dated March 1, 1989, recorded April 13, 2011 in Record Book 4739, page 850;

And Fifth Amendment to Ground Lease recorded July 2, 2013 in Record Book 5120, page 40;

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(continued)

And Corrective Fifth Amendment to Ground Lease Agreement recorded February 18, 2014 in Record Book [5205, page 657](#) (NOTE: unrecorded Fourth Amendment to Ground Lease Agreement dated February 8, 2013 is disclosed by the forgoing instrument)

5. Transmission Easement in favor of Central Iowa Power Cooperative, its successors and assigns, as granted by Instrument dated July 26, 1989 and recorded November 13, 1989 in Record Book [1091, page 473](#), over and across a portion of the premises; and with the terms and provisions therein contained; and as shown on the Plat of said Oakdale West First Addition.
6. Gas Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated August 17, 1990 and recorded October 18, 1990 in Record Book [1177, page 260](#), over and across a portion of the premises; and with the terms and provisions therein contained.
7. Telecommunications Easement in favor of South Slope Cooperative Telephone Company, its successors and assigns, as granted by Instrument dated March 21, 1990 and recorded April 12, 1991 in Record Book [1219, page 68](#), over and across a portion of the premises; and with the terms and provisions therein contained.
8. Utility Easement in favor of Linn County Rural Electric Cooperative, its successors and assigns, as granted by Instrument dated July 19, 2010 and recorded August 5, 2010 in Record Book [4631, page 267](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Tract I, Parcels 1-5, A)

Addendum to Easement recorded May 9, 2017 in Record Book [5646, page 195](#).

9. Ten foot utility easement affecting the Southerly and Easterly lines of Lot 1, Southerly and Westerly lines of Lot 10, Easterly lines of Lots 2, 3, A, 4, 5 and 6, Westerly lines of Lots 7, 8, 9 and B, as shown on the Plat of Oakdale Research Park Subdivision.
10. Twenty foot sanitary sewer easement affecting the Southeast corner of Lot 1, Southerly and Easterly lot lines of Lot 3, and Westerly line of Lot 10, as shown on the Plat of Oakdale Research Park Subdivision.
11. Sixty foot easement for future roadway affecting the Easterly line of Lot 6 and Westerly line of Lot 7, as shown on the Plat of Oakdale Research Park Subdivision.
12. Terms and provisions of the lease from University of Iowa Research Park Corp. Lessor, to Ryan Companies US, Inc., Lessee, dated May 1, 2007, a memorandum of which is recorded November 24, 2008 in Record Book [4370, page 373](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcel 1)

And Memorandum of Assignment of Lease recorded August 16, 2013 in Record Book [5147, page 385](#) made to BBQ Too LLC.

13. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement Regarding Real Estate Lease dated December 22, 2008 and recorded January 15, 2009 in Record Book [4381, page 366](#), made by and between Ryan Companies US, Inc., Bankers Trust Company and University of Iowa Research Park Corp. (Affects Tract I, Parcel 1)

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(continued)

14. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Minimum Assessment Agreement dated November 13, 2008 and recorded December 7, 2009 in Record Book [4536, page 85](#), made by and between Ryan Companies US, Inc., the Board of Regents State of Iowa and Johnson County Assessor. (Affects Tract I, Parcel 1)
15. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Memorandum of Agreement for Private Redevelopment dated November 13, 2008 and recorded December 7, 2009 in Record Book [4536, page 91](#), made by and between Ryan Companies US, Inc., the University of Iowa and City of Coralville. (Affects Tract I, Parcel 1)
16. Limited Warranty Deed (Improvements Only) dated August 13, 2013 and recorded August 16, 2013 in Record Book [5147, page 381](#) made by Ryan Companies US, Inc. to BBQ Too LLC. (Affects Tract I, Parcel 1)
17. Mortgage dated August 13, 2013 and recorded August 19, 2013 in Record Book [5147, page 844](#), made by BBQ Too LLC to University of Iowa Community Credit Union which states that it secures a debt in the principal sum of \$12,700,000.00. (Affects Tract I, Parcel 1)
18. Assignment of Leases and Rents dated August 13, 2013 and recorded August 19, 2013 in Record [book 5147, page 866](#) made by BBQ Too LLC to University of Iowa Community Credit Union; and with the terms and provisions contained therein. (Affects Tract I, Parcel 1)
19. Financing Statement recorded August 19, 2013 in Record Book [5147, page 873](#) wherein BBQ Too LLC is Debtor and University of Iowa Community Credit Union is Secured Party. (Affects Tract I, Parcel 1)
20. Financing Statement recorded May 3, 2019 in Record Book [5899, page 211](#) wherein BBQ Too LLC is Debtor and University of Iowa Community Credit Union is Secured Party. (Affects Tract I, Parcel 1)
21. Financing Statement recorded November 8, 1993 in Record Book 1649, page 308 wherein Liberty Growth, L.C. is Debtor and Iowa State Bank & Trust Company is Secured Party. (Affects Tract I, Parcel 3)

And Continuation recorded October 28, 1998 in Record Book 2605, page 70;

And Continuation recorded September 8, 2003 in Record Book 3634, page 274;

And Continuation recorded July 14, 2008 in Record Book 4324, page 360;

And Amendment recorded May 17, 2013 in Record Book 5093, page 299, in which Secured Party's name was changed to MidWestOne Bank.

And Continuation recorded May 17, 2013 in Record Book 5093, page 301;

And Continuation recorded June 20, 2018 in Record Book [5801, page 922](#).
22. Mortgage dated November 3, 1993 and recorded November 8, 1993 in Record Book 1649, page 309, made by Liberty Growth, L.C. to Iowa State Bank & Trust Company which states that it secures a debt in the principal sum of \$1,200,000.00. (Affects Tract I, Parcel 3)

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(continued)

As amended by Amendment to Leasehold Mortgage recorded September 15, 1994 in Record Book 1812, page 73. As modified and extended by Leasehold Mortgage Extension Agreement recorded February 7, 2012 in Record Book 4867, page 27.

23. Terms and provisions of the lease from University of Iowa Research Park Corporation Landlord, to Liberty Growth L.C., Tenant, dated November 2, 1993, a memorandum of which is recorded May 12, 2010 in Record Book [4587, page 846](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcel 3)

And Assignment of Tenant's Interest in Lease recorded November 8, 1993 in Record Book 1649, page 318 made to Iowa State Bank & Trust Company.

And Assignment of Lessor's Interest in Lease recorded November 8, 1993 in Record Book 1649, page 323 made to Iowa State Bank & Trust Company.

24. Assignment of Rents dated January 17, 2012 and recorded February 7, 2012 in Record Book [4867, page 28](#) made by Liberty Growth L.C. to MidWestOne Bank; and with the terms and provisions contained therein. (Affects Tract I, Parcel 3)

25. Terms, conditions, provisions, and obligations as contained in Bills of Sale and Assignment and Assumption Agreement dated February 16, 2006 and recorded February 22, 2006 in Record Book 3993, page 700, made by and between Board of Regents and Myriad Developers L.C. (Affects Tract 1, Parcel 4 and 5)

26. Reservation of Easements and Agreement in favor of State University of Iowa and University of Iowa Research Park Corporation, its successors and assigns, as granted by Instrument dated February 16, 2006 and recorded February 22, 2006 in Record Book [3993, page 706](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Tract I, Parcels 4 and 5)

27. Reservation of Easements and Agreement in favor of Board of Regents, State of Iowa, its successors and assigns, as granted by Instrument dated January 22, 2007 and recorded March 1, 2007 in Record Book [4133, page 234](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Tract I, Parcels 4 and 5)

28. Terms and provisions of the lease from University of Iowa Research Park Corporation Lessor, to Myriad Developers L.C., Lessee, dated January 27, 1998, a memorandum of which is recorded October 9, 2014 in Record Book [5291, page 864](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcels 4 and 5)

And Consent Agreement dated August 20, 2015 and recorded August 27, 2015 in Record Book [5416, page 922](#), made by and between Corridor Development, Inc. and CMA Ventures, Inc. and University of Iowa Research Park Corporation.

29. Terms and provisions of the Parking Supplement to Land Lease from University of Iowa Research Park Corporation, Lessor, to Myriad Developers, L.C., Lessee, dated September 5, 2001 and recorded October 9, 2014

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(continued)

in Record Book [5291, page 893](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcels 4 and 5)

30. Mortgage dated December 1, 2014 and recorded December 22, 2014 in Record Book [5315, page 961](#), made by Corridor Development, Inc. to Linn County Rural Electric Cooperative Association which states that it secures a debt in the principal sum of \$1,000,000.00. (Affects Tract I, Parcels 4 and 5)

And Assignment of Real Estate Mortgage and Promissory Note recorded April 24, 2017 in Record Book 6540, page 818 assigned to Myriad Developers, L.C.

31. Bill of Sale dated December 1, 2014 and recorded February 6, 2015 in Record Book [5329, page 465](#) made by CMA Ventures, Inc. to Corridor Development, Inc. (Affects Tract I, Parcels 4 and 5)

See Affidavit dated August 4, 2015 and recorded August 7, 2015 in Record Book [5409, page 228](#).

32. Mortgage dated December 1, 2014 and recorded June 11, 2015 in Record Book [5377, page 505](#), made by Corridor Development, Inc. to Linn County Rural Electric Cooperative Association which states that it secures a debt in the principal sum of \$1,000,000.00. (Affects Tract I, Parcels 4 and 5)

33. Plat of Survey dated May 18, 2011 and recorded November 7, 2011 in Record Book [56, page 105](#) (Affects the Southerly 25 feet of Tract I, Parcel 5)

34. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Utility License dated August 2, 2010 and recorded August 5, 2010 in Record Book [4631, page 262](#), made by and between The University of Iowa and Linn County Rural Electric Cooperative. (Affects Tract I, Parcels 6 and 7)

35. Permanent Easement Agreement in favor of Linn County Rural Electric Cooperation, its successors and assigns, as granted by Instrument dated October 24, 2013 and recorded November 6, 2013 in Record Book [5178, page 136](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Tract I, Parcels 6 and 7)

36. Terms and provisions of the lease from University of Iowa Research Park Corporation, Lessor, to Oakdale 8, LLC, Lessee, dated January 20, 2012 and recorded February 8, 2012 in Record Book [4867, page 526](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcel 8)

And Assignment of Real Estate Lease and Agreement dated September 4, 2013 and recorded April 29, 2014 in Record Book [5224 page 59](#) made to Hills Bank and Trust Company.

37. Terms, conditions, and provisions as contained in Subordination and Non-Disturbance Agreement dated February 13, 2012 and recorded February 16, 2012, made by and between Oakdale 8, LLC, Tenant, Iowa State Board of Regents, Ground Lessor and University of Iowa Research Park Corporation, Landlord. (Affects Tract 1, Parcel 8)

38. Mortgage dated February 20, 2013 and recorded February 28, 2013 in Record Book [5057, page 333](#), made by Oakdale 8, LLC to Hills Bank and Trust Company which states that it secures a debt in the principal sum of \$3,125,000.00. (Affects Tract I, Parcel 8)

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(continued)

NOTE: Modification Agreement recorded November 22, 2013, in Record Book [5182, page 564](#).

39. Assignment of Rents dated February 20, 2013 and recorded February 28, 2013 in Record Book [5057, page 341](#) made by Oakdale 8, LLC to Hills Bank and Trust Company; and with the terms and provisions contained therein. (Affects Tract I, Parcel 8)
40. Financing Statement recorded March 8, 2013 in Record Book [5059, page 749](#), wherein Oakdale 8, LLC is Debtor and Hills Bank & Trust Company is Secured Party. (Affects Tract I, Parcel 8)
41. Assignment of Rents dated November 15, 2013 and recorded November 22, 2013 in Record Book [5182, page 572](#) made by Oakdale 8, LLC to Hills Bank and Trust Company; and with the terms and provisions contained therein. (Affects Tract I, Parcel 8)
42. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Memorandum of Agreement for Private Redevelopment dated October 14, 2014 and recorded October 17, 2014 in Record Book [5294, page 247](#), made by and between Build to Suit, Inc. and Oakdale 8, LLC and City of Coralville, Iowa. (Affects Tract I, Parcels 8 and 9)
43. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Minimum Assessment Agreement dated October 14, 2014 and recorded October 17, 2014 in Record Book [5294, page 253](#), made by and between Build to Suit, Inc. and Oakdale 8, LLC and City of Coralville, Iowa. (Affects Tract I, Parcels 8 and 9)
44. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Memorandum of Land Lease dated June 11, 1992 and recorded June 24, 1992 in Record Book [1392, Page 77](#), made by and between University of Iowa Research Park Corporation and Computer Aided Design Software, Inc. (Affects Tract I, Parcel 9)

And Assignment of Lease dated October 30, 1997 and recorded November 12, 1997 in Record Book [2369, Page 250](#), made by and between Computer Aided Design Software, Inc. and LMC, LLC.

And Memorandum of Assignment and Assumption of Leases and Transfer of Security Deposits and Conveyance of Improvements dated September 4, 2013 and recorded September 13, 2018 in Record Book [5159, Page 172](#), made by and between LMC LLC and Oakdale 9, LLC.

And Assignment of Real Estate Lease and Agreement dated September 4, 2013 and recorded September 13, 2013 in Record Book [5159, Page 184](#), made by and between Oakdale 9, LLC and Hills Bank and Trust Company.

And Assignment of Real Estate Lease and Agreement dated September 4, 2013 and recorded September 13, 2013 in Record Book [5159, Page 186](#), made by and between Oakdale 9, LLC and Hills Bank and Trust Company.

And Assignment of Real Estate Lease and Agreement dated September 4, 2013 and recorded April 29, 2014 in Record Book [5224, Page 64](#), made by and between Oakdale 9, LLC and Hills Bank and Trust Company
45. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Memorandum of Lease dated March 1, 2008 and recorded March 6, 2008 in Record Book [4270, Page 566](#), made by and between LMC, LLC and Cargill, Incorporated. (Affects Tract I, Parcel 9)

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(continued)

46. Mortgage dated September 4, 2013 and recorded September 13, 2013 in Record Book [5159, page 177](#), made by Oakdale 9, LLC to Hills Bank and Trust Company which states that it secures a debt in the principal sum of \$2,289,600.00. (Affects Tract I, Parcel 9)
47. Financing Statement recorded September 13, 2013 in Record Book [5159, Page 188](#), wherein Oakdale 9, LLC is Debtor and Hills Bank and Trust Company is Secured Party. (Affects Tract I, Parcel 9)
48. Terms and provisions of the lease from University of Iowa Research Park Corporation Lessor, to CPMLCRE Coralville Venture, Lessee, dated October 1, 1989, a memorandum of which is recorded November 8, 1989 in Record Book [1091, page 207](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcel 10)

And Memorandum of Amendment to Lease dated May 7, 1991 and recorded May 8, 1991 in Record Book [1228, page 223](#).

And Assignment of Land Lease dated November 28, 1989 and recorded April 2, 1993 in Record Book [1520, Page 174](#), made by and between CPMLCRE Coralville Venture and CPMLCRE Coralville Limited Partnership.

And Memorandum of Amendment of Lease dated April 1, 1993 and recorded April 2, 1993 in Record [Book 1520, page 178](#).

And Assignment of Leases recorded December 19, 2005 in Record Book [3974, page 213](#).

49. Terms and provisions of the lease from CPMI-CRE Coralville Venture, Lessor, to Board of Regents of State of Iowa, Lessee, dated September 21, 1989, a memorandum of which is recorded May 8, 1991 in Record Book [1228, page 220](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract I, Parcel 10)

And Memorandum of Lease recorded April 2, 1993 (CPMI-CRE Coralville Venture Limited Partnership as successor)

50. Intentionally deleted.

51. Intentionally deleted.

52. Terms and provisions of the Conveyance of Leasehold and Improvements from CPMI-CRE Coralville Venture general partnership and CPMI-CRE Coralville Limited Partnership, Grantors, to University of Iowa Facilities Corporation, Grantee, dated November 21, 1995 and recorded December 1, 1995 in Record Book [2003, page 317](#). (Affects Tract I, Parcel 10)

53. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Resolution Approving Final Plat of Oakdale Research Park Subdivision Phase II dated July 29, 1997 and recorded September 24, 1998 as Document No. Record Book [2538, page 190](#), made by and between State of Iowa for the State University of Iowa. (Affects Tract II)

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54. Terms and provisions of the lease from University of Iowa Research Park Corp. Lessor, to Oakdale 11, LLC, Lessee, dated October 26, 2015, a memorandum of which is recorded November 23, 2015 in Record Book [5447, page 1000](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract II, Parcel 1)

And Assignment of Real Estate Lease and Agreement recorded June 29, 2017 in Record Book 5671, page 625, and re-recorded July 12, 2017 in Record Book [5676, page 909](#) to Hills Bank and Trust Company.

55. Mortgage dated May 26, 2017 and recorded June 29, 2017 in Record Book [5671, page 628](#) as Document No., made by Oakdale 11, LLC to Hills Bank and Trust Company which states that it secures a debt in the principal sum of \$6,725,000.00. (Affects Tract II, Parcel 1)
56. Assignment of Leases and Rents dated May 26, 2017 and recorded June 29, 2017 in Record Book [5671, page 642](#) as Document No. made by Oakdale 11, LLC to Hills Bank and Trust Company; and with the terms and provisions contained therein. (Affects Tract II, Parcel 1)
57. Ten foot utility easement along the West, North and East lines of Lot 11, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
58. Twenty foot utility easement along the Southerly line of Lot 11, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
59. Storm sewer easement at the Southeasterly corner of Lot 11, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
60. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Driveway Construction, Use and Maintenance Agreement, and Declaration of Easement dated May 8, 2003 and recorded May 9, 2003 in Record Book [3540, page 212](#), made by and between TMD, L.L.C., Hunter Properties, LLC and University of Iowa Research Park Corporation. (Affects Tract II, Parcels 2 and 3)
61. Terms, conditions, provisions, and obligations as contained in Memorandum of Agreement for Private Redevelopment dated April 23, 2003 and recorded August 7, 2003 in Record Book [3607, page 751](#), made by and between TMD, L.L.C., and City of Coralville. (Affects Tract II, Parcel 2)
62. Financing Statement recorded December 16, 2011 in Record Book [4846, page 437](#), wherein TMD, L.L.C. is Debtor and UICCU Financial, LLC is Secured Party. (Affects Tract II, Parcel 2) And Continuation recorded December 5, 2016 in Record Book [5594, page 399](#).
63. Mortgage dated December 15, 2011 and recorded December 16, 2011 in Record Book [4846, page 439](#), and re-recorded March 31, 2016 in Record Book 5487, page 657, made by TMD, L.L.C. to UICCU Financial, LLC which states that it secures a debt in the principal sum of \$9,000,000.00. (Affects Tract II, Parcel 2)

And Assignment recorded June 21, 2013 in Record Book [5113, page 420](#) and re-recorded June 28, 2013 in Record Book [5118, page 242](#), to University of Iowa Community Credit Union.

And Assignment recorded March 31, 2016 in Record Book [5487, page 791](#) to University of Iowa

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(continued)

64. Assignment of Leases and Rents dated December 15, 2011 and recorded December 16, 2011 in Record Book [4846, page 450](#), made by TMD, L.L.C. to UICCU Financial, LLC; and with the terms and provisions contained therein. (Affects Tract II, Parcel 2)
- And Assignment recorded June 21, 2013 in Record Book [5113, page 420](#) and re-recorded June 28, 2013 in Record Book [5118, page 242](#), to University of Iowa Community Credit Union.
- And Assignment recorded March 31, 2016 in Record Book [5487, page 791](#) to University of Iowa Community Credit Union.
65. Mortgage, Assignment of Leases and Rents, Security Agreement and Fixture Filing dated April 1, 2011 and recorded December 28, 2011 in Record Book [4851, page 223](#), made by TMD, LLC to MidWestOne Bank which states that it secures a debt in the principal sum of \$2,700,000.00. (Affects Tract II, Parcel 2)
66. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Declaration of Submission of Property to Horizontal Property Regime for 2450-2470 Oakdale Blvd Commercial Condominiums dated November 20, 2018 and recorded November 28, 2018 in Record Book [5858 page 826](#), made by and between TMD, L.L.C.. (Affects Tract II, Parcel 2)
67. Notice of Default dated March 1, 2019 and recorded March 6, 2019 in Record Book [5882, page 548](#) by Integrated DNA Technologies, Inc., Tenant, to TMD, L.L.C., Landlord. (Affects Tract II, Parcel 2)
68. Mortgage dated July 28, 2019 and recorded August 1, 2019 in Record Book [5938, page 66](#) as Document No., made by Richard J. Schwab to Great Western Bank which states that it secures a debt in the principal sum of \$1,191,115.00. (Affects Tract II, Parcel 2)
69. Twenty-five foot gas easement along the Northerly line of Lot 21, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
70. Twenty foot sanitary sewer easement along the Northerly and Westerly lines of Lot 21, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
71. Twenty foot trail easement along the Westerly line of Lot 21, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
72. Five foot utility easement along the West, South and East lines of Lot 21, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
73. Terms and provisions of the lease from University of Iowa Research Park Corporation Lessor, to Hunter Properties, LLC, Lessee, dated November 21, 2002, a memorandum of which is recorded January 27, 2003 in Record Book [3467, page 438](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract II, Parcel 3)
- Memorandum of Assignment of Leases and Interest dated November 26, 2003 and recorded December 3, 2003 in Record Book [3673, page 667](#) to S & S Enterprises, L.L.C.

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(continued)

And Assignment of Real Estate Lease and Agreement dated October 31, 2008 and recorded November 7, 2008 in Record Book [4364, page 243](#) to Hills Bank and Trust Company.

74. Terms, conditions, provisions, and obligations as contained in Attornment Agreement dated March 20, 2003 and recorded May 8, 2003 as Document No. Record Book [3539, page 635](#), made by and between NCS Pearson, Inc., Hunter Properties, LLC and Wells Fargo Bank Iowa, National Association. (Affects Tract II, Parcel 3)
 75. Terms, conditions, provisions, and obligations as contained in Memorandum of Agreement for Private Redevelopment dated June 23, 2003 and recorded August 7, 2003 in Record Book [3607, page 748](#), made by and between Hunter Properties, LLC, and City of Coralville. (Affects Tract II, Parcel 3)
 76. Mortgage dated October 28, 2008 and recorded November 6, 2008 in Record Book [4363, page 806](#), made by S & S Enterprises, L.L.C, to Hills Bank and Trust Company which states that it secures a debt in the principal sum of \$3,702,158.00. (Affects Tract II, Parcel 3)
- NOTE: Modification Agreement recorded August 15, 2013, in Record Book [5145, page 606](#).
77. Five foot utility easement along the West and East lines of Lot 22, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
 78. Twenty-five foot gas easement along the Northerly line of Lot 22, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
 79. Twenty foot utility easement along the Northerly line of Lot 22, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
 80. Ten foot utility easement along the Southerly line of Lot 22, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
 81. Terms and provisions of the lease from University Research Park Corporation, Lessor, to Corridor Office Solutions, LLC, Lessee, dated December 19, 2006 and recorded April 19, 2007 in Record Book [4148, page 540](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract II, Parcel 4)
 82. Terms, conditions, provisions, and obligations as contained in Memorandum of Agreement for Private Redevelopment dated August 22, 2007 and recorded November 21, 2007 in Record Book [4237, page 733](#), made by and between Corridor Office Solutions, LLC, and City of Coralville. (Affects Tract II, Parcel 4)
 83. Mortgage dated July 29, 2011 and recorded August 3, 2011 in Record Book [4786, page 23](#), made by Corridor Office Solutions, LLC to University of Iowa Community Credit Union which states that it secures a debt in the principal sum of \$1,495,378.23. (Affects Tract II, Parcel 4)
 84. Assignment of Leases and Rents dated July 29, 2011 and recorded August 3, 2011 in Record Book [4786, page 35](#) made by Corridor Office Solutions, LLC to University of Iowa Community Credit Union; and with the terms and provisions contained therein. (Affects Tract II, Parcel 4)

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(continued)

85. Twenty foot utility easement along the Northerly line of Lot 23, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
86. Gas easement of variable width at the Northeasterly corner of Lot 23, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
87. Ten foot utility easement along the Southerly line of Lot 23, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
88. Terms and provisions of the lease from University of Iowa Research Park Corporation, Lessor, to Oakdale Systems, Inc., Lessee, dated September 25, 1998 and recorded September 25, 1998 in Record Book [2584, page 43](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract II, Parcel 5)

And Assignment of Real Estate Lease and Agreement recorded March 11, 1999 in Record Book [2692, page 94](#).

And Sheriffs Deed dated April 10, 2003 and recorded January 2, 2004 in Record Book [3683, page 848](#) by the Sheriff of Johnson County to U.S. Bank National Association;

And Special Warranty Deed dated January 23, 2004 and recorded February 3, 2004 in Record Book [3692, page 623](#) made by U.S. Bank National Association to Midwest Development & Investment Corporation (conveyance of interest in lease)

89. Mortgage dated July 10, 2009 and recorded July 21, 2009 in Record Book [4480, page 253](#), made by Midwest Development & Investment Corporation to City State Bank which states that it secures a debt in the principal sum of \$320,000.00. (Affects Tract II, Parcel 5)

NOTE: Modification Agreement recorded January 9, 2013, in Record Book [5035, page 696](#).

90. Assignment of Leases and Rents dated July 10, 2009 and recorded July 21, 2009 in Record Book [4480, page 271](#) made by Midwest Development & Investment Corporation to City State Bank; and with the terms and provisions contained therein. (Affects Tract II, Parcel 5)
91. Twenty foot utility easement along the East line of Lot 24, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
92. Gas easement of variable width over the West Half of Lot 24, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
93. Ten foot utility easement along the South line of Lot 24, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.
94. Twenty-five foot gas easement along the Northerly line of Lot 24, as shown on the Plat of Oakdale Research Park Subdivision, Phase II.

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(continued)

95. Mortgage dated December 28, 2007 and recorded February 19, 2008 in Record Book [4264, page 80](#), and re-recorded August 10, 2011 in Record Book [4789, page 301](#), made by Emrico Properties L.L.C, to University of Iowa Community Credit Union which states that it secures a debt in the principal sum of \$1,480,000.00. (Affects Tract III, Parcel 1)
96. Assignment of Leases and Rents dated December 28, 2007 and recorded February 19, 2008 in Record Book 4264, page 106 and re-recorded August 10, 2011 in Record Book [4789, page 323](#), made by Emrico Properties L.L.C, to University of Iowa Community Credit Union; and with the terms and provisions contained therein. (Affects Tract III, Parcel 1)
97. Financing Statement recorded February 19, 2008 in Record Book [4264, page 128](#), and re-record August 10, 2011 in Record Book [4789, page 330](#), wherein Emrico Properties L.L.C, is Debtor and University of Iowa Community Credit Union is Secured Party. (Affects Tract III, Parcel 1)
- And Continuation recorded February 2, 2018 in Record Book [5753, page 552](#).
98. Terms, conditions, provisions, and obligations as contained in Minimum Assessment Agreement dated March 5, 2008 and recorded April 15, 2008 in Record Book [4286, page 444](#), made by and between Emrico Properties L.L.C, and City of Coralville. (Affects Tract III, Parcel 1)
99. Terms and provisions of the lease from University of Iowa Research Park Corporation, Lessor, to Emrico LLC, Lessee, dated January 2, 2008 and recorded April 2, 2009 in Record Book [4415, page 746](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract III, Parcel 1)
- And Assignment of Real Estate Lease and Agreement recorded January 23, 2017 in Record Book [5612, page 237](#) made to Hills Bank and Trust Company
100. Mortgage dated January 12, 2017 and recorded January 23, 2017 in Record Book [5612, page 216](#) made by Emrico Properties L.L.C, to Hills Bank and Trust Company which states that it secures a debt in the principal sum of \$2,260,000.00. (Affects Tract III, Parcel 1)
101. Assignment of Leases and Rents dated January 12, 2017 and recorded January 23, 2017 in Record Book [5612, page 227](#) made by Emrico Properties L.L.C, to Hills Bank and Trust Company; and with the terms and provisions contained therein. (Affects Tract III, Parcel 1)
102. Assignment of Leases and Rents dated January 12, 2017 and recorded January 23, 2017 in Record Book [5612, page 232](#) made by Emrico Properties L.L.C, to Hills Bank and Trust Company; and with the terms and provisions contained therein. (Affects Tract III, Parcel 1)
103. Twenty foot utility easement along the Southerly line of Oakdale Research Park Subdivision, Phase 4, as shown on the Plat of said Subdivision.
104. Ten foot utility easement along the Northerly line of Oakdale Research Park Subdivision, Phase 4, as shown on the Plat of said Subdivision.

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(continued)

105. Ten foot electrical easement on the Northeast part of Lot 2, Oakdale Research Park Subdivision, Phase 4, as shown on the Plat of said Subdivision.
106. Terms and provisions of the lease from Board of Regents, State of Iowa for the use and benefit of The State University of Iowa Lessor, to Kirkwood Community College, Lessee, dated July 1, 2013, a memorandum of which is recorded September 30, 2013 in Record Book [5164, page 885](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract IV)
- AND Memorandum of Assignment of Ground Lease recorded September 30, 2013 in Record Book [5164, page 887](#), made to Ryan Companies US, Inc.
- AND Assignment of Land Lease recorded September 30, 2015 in Book [5429, page 538](#) made to Bankers Trust Company.
107. Quit Claim Deed Deed dated September 28, 2015 and recorded September 30, 2015 in Record Book [5429, page 483](#) made by Ryan Companies US, Inc. to Kirkwood Community College, (includes and is limited to Grantor's leasehold interests) (Affects Tract IV)
108. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Lease Purchase Agreement dated September 1, 2015 and recorded September 30, 2015 in Record [Book 5429, page 486](#), made by and between Kirkwood Community College and Bankers Trust Company, in the amount of \$42,000,000.00. (Affects Tract IV and additional lands)
109. Thirty foot landscape, sanitary sewer and utility easement along the Easterly line of Tract IV, as shown on the Plat of Oakdale Research Park Subdivision - Phase Five.
110. Fifteen foot utility easement along the Westerly line of Tract IV, as shown on the Plat of Oakdale Research Park Subdivision - Phase Five.
111. Seven foot landscape easement along the Westerly line of Tract IV, as shown on the Plat of Oakdale Research Park Subdivision - Phase Five.
112. Twenty foot utility easement along the South line of Lot 25, as shown on the Plat of Oakdale Research Park Subdivision - Phase Five.
113. Sanitary and storm sewer easement at the Northwesterly corner of Lot 26, as shown on the Plat of Oakdale Research Park Subdivision - Phase Five.
114. Terms and provisions of the lease from Board of Regents, State of Iowa, Lessor, to City of Coralville, Lessee, dated April 15, 2009 and recorded April 24, 2009 in Record Book [4425, page 924](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Tract V, Parcel 2)
115. Ninety foot public trail easement on the Westerly line of Lot 3 of Oakdale West First Addition, as shown on Plat of Survey recorded February 8, 2012 in Record Book [56, page 189](#). (Affects Tract V, Parcel 3)

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(continued)

116. Fifty foot utility, trail and water main easement along the Southerly line of Tract V, as shown on the Plat of said Oakdale West First Addition.
117. Sixty foot shared access easement along the Southeasterly line of Lot 3 and the Southwesterly line of Lot 2 of Tract V, as shown on the Plat of said Oakdale West First Addition.
118. Twenty-five foot sanitary sewer easement along the Southeasterly line of Lot 3 and the Southwesterly line of Lot 2 of Tract V, as shown on the Plat of said Oakdale West First Addition.
119. Existing unrecorded leases and all rights thereunder of the lessees and of any person claiming by, through or under the lessees.
120. Special assessments and special taxes, if any.
121. Easements for public and quasi-public utilities, if any.
122. Rights of the public, State of Iowa, the County, the Township and the Municipality in and to that part of the premises in question taken, used or dedicated for roads and highways.
123. Rights of way for drainage ditches, drain tiles, feeders, laterals and underground pipes, if any.
124. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
125. Rights or claims of parties in possession not shown by the public records; any encroachment, encumbrance, violation variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the land; and easements and claims of easements not shown by the public records.
126. Information should be furnished establishing the present value of the land and improvements thereon. If such value is greater than the amount of insurance requested, the application should be amended to request an amount equivalent to the full value of the property, and in default thereof, the right is reserved to insert in the owner's policy the Company's usual coinsurance endorsement.

END OF SCHEDULE B, PART II

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**SCHEDULE B, PART II
EXCEPTIONS**

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDITION, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDITION, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

General Exceptions:

1. Rights or claims of parties in possession not shown by Public Records.
2. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the Land.
3. Easements, or claims of easements, not shown by the Public Records.
4. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.
5. Taxes or special assessments which are not shown as existing liens by the Public Records.
6. The Company should be furnished a properly executed ALTA statement and, unless the land insured is a condominium unit, a survey if available. Matters disclosed by the above documentation will be shown specifically.
7. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I -Requirements are met.

Special Exceptions:

1. Taxes for the Fiscal Year 2018-2019.

Parcel No. 0624301001. (Parcel 1)
STR 24-80-7 NE SW.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 0624402005. (Parcel 2)
STR 24-80-7 Pt NESE Desc Auditor's Parcel #2010084.

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(continued)

First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 0625426004. (Parcel 3)
STR 25-80-7 All NE & SE Ex RR & Ex Oakdale Research Park S/Ds.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2350 Crosspark Road, Coralville, IA 52241

Parcel No. 0625251001. (Parcel 4)
STR 25-80-7 N 70A NW Ex Pt Desc in [Bk 280 Pg 155](#).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 0730352001. (Parcel 5)
STR 30-80-6 That Pt SWSW S of RR Desc in [Bk 101 Pg 38](#).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 0730330003. (Parcel 6)
STR 30-80-6 Pt W1/2 SW N of RR Desc in [Bk 101 Pg 38](#) Ex Oakdale Research Park SD Phase II. First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available

Parcel No. 0730252011. (Parcel 7)
STR 30-80-6 Pt SW NW Desc in [Bk 4246 Pg 245](#).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 0730252013. (Parcel 8)
STR 30-80-6 Pt SW NW Desc in Bk 4377 Pg 72.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available

Parcel No. 0730252014. (Parcel 9)

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(continued)

STR 30-80-6 Pt W600' SW NW Desc in Bk 1714 Pg 48 & Inc [Bk3027 Pg433](#) & Inc [Bk4712 Pg862](#) Exc Oakdale Research Park SD-Phase Five.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available

Parcel No. 0636176001. (Parcel 10)

STR 36-80-7 SENE Exc 1-80 & Subj Unrecorded Ease 6/3/1998.

First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00. Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available

Parcel No. 0636101001. (Parcel 10)

STR 36-80-7 NE NE.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available

2. Transmission Easement in favor of Central Iowa Power Cooperative, its successors and assigns, as granted by Instrument dated March 13,1964 and recorded June 16,1964 in Record [Book 230, page 321](#) , over and across a portion of the premises; and with the terms and provisions therein contained.
3. Water Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated September 19,1985 and recorded November 6,1985 in Record [Book 811, page 183](#) , over and across a portion of the premises; and with the terms and provisions therein contained.
4. Overhead Cable Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated December 16,1985 and recorded January 30,1987 in Record [Book 914, page 66](#) , over and across a portion of the premises; and with the terms and provisions therein contained.
5. Terms and provisions of the lease from Iowa State Board of Regents, Lessor, to University of Iowa Research Park Corporation, Lessee, dated March 15,1989 and recorded August 30,1989 in Record Book 1079, page 490 and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee.

And Amendment to Ground Lease Agreement recorded June 1, 1990 in Record Book 2497, page 69;

And Amendment to Ground Lease Agreement recorded February 27, 2007 in Record Book 4132, page 608;

And Third Amendment to Ground Lease dated March 1, 1989, recorded April 13, 2011 in Record Book 4739, page 850;

And Fifth Amendment to Ground Lease recorded July 2, 2013 in Record Book 5120, page 40;

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(continued)

And Corrective Fifth Amendment to Ground Lease Agreement recorded February 18, 2014 in Record Book 5205, page 657 (NOTE: unrecorded Fourth Amendment to Ground Lease Agreement dated February 8, 2013 is disclosed by the forgoing instrument)

6. Affidavit of Michael J. Finnegan dated August 31, 1989 and recorded September 29, 1989 in Record [Book 1085, page 206](#).
7. Transmission Easement in favor of Central Iowa Power Cooperative, its successors and assigns, as granted by Instrument dated July 26, 1989 and recorded November 13, 1989 in Record [Book 1091, page 473](#), over and across a portion of the premises; and with the terms and provisions therein contained.
8. Utility Easement in favor of Linn County Rural Electric Cooperative, its successors and assigns, as granted by Instrument dated March 21, 2012 and recorded April 2, 2012 in Record [Book 4888, page 824](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 1)
9. Terms, conditions, and restrictions as contained in Warranty Deed dated December 29, 2010 and recorded December 30, 2010 in Record [Book 4705, page 785](#), made by and between MGCSMS, L.L.C, and State of Iowa Board of Regents. (Affects Parcel 1)
10. Storm sewer and drainage easement of variable widths along the perimeter line of Parcel 2, as shown on the Plat of Survey of Auditor's Parcel 2010084.
11. Forty foot trail, storm sewer, drainage and sanitary sewer easement along the Southerly line of Parcel 2, as shown on the Plat of Survey of Auditor's Parcel 2010084.
12. Terms and provisions of the Utility License from Board of Regents State of Iowa Grantor, to New Cingular Wireless PCS, LLC, Grantee, dated July 27, 2012, a memorandum of which is recorded August 9, 2012 in Record [Book 4959, page 421](#) and all rights thereunder.
13. Sanitary Sewer Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated September 20, 2011 and recorded December 16, 2011 in Record [Book 4846, page 364](#), over and across a portion of the premises; and with the terms and provisions therein contained.
14. Recreational Trail Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated September 20, 2011 and recorded December 16, 2011 in Record [Book 4846, page 370](#), over and across a portion of the premises; and with the terms and provisions therein contained.
15. Terms, conditions, and provisions as contained in Supplemental Final Order and Judgment in AT&T Fiber Optic Cable Installation Litigation dated November 28, 2007 and recorded March 27, 2008 in Record [Book 4278, page 106](#). (Affects Parcel 3)
16. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Assignment of Grade Crossing Agreement dated July 10, 2007 and recorded June 3, 2008 in Record [Book 4306, page 179](#), made by and between University of Iowa, Cedar Rapids and Iowa City Railroad and City of Coralville. (Affects Parcel 3)

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(continued)

17. Sanitary Sewer Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated October 25, 2012 and recorded December 21, 2012 in Record [Book 5027, page 939](#) over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 3)
18. Terms and provisions of the Ground and Tower Agreement by and between Board of Regents State of Iowa, Landlord, and New Cingular Wireless PCS, LLC, Tenant, dated March 10, 2012, a memorandum of which is recorded April 19, 2012 in Record [Book 4896, page 381](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 3)
19. Electric Transmission Easement in favor of ITC Midwest LLC, its successors and assigns, as granted by Instrument dated November 12, 2009 and recorded September 21, 2010 in Record [Book 4653, page 117](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 5)
20. Terms, conditions, and restrictions as contained in Quit Claim Deed dated December 30, 2010 and recorded January 11, 2011 in Record [Book 4711, page 221](#), re-recorded on January 13, 2011 in Record [Book 4712, page 862](#), made by and between Charles C. Sjodergren and Kay M. Sjodergren, husband and wife and State of Iowa Board of Regents. (Affects Parcel 9)
21. Existing unrecorded leases and all rights thereunder of the lessees and of any person claiming by, through or under the lessees.
22. Special assessments and special taxes, if any.
23. Easements for public and quasi-public utilities, if any.
24. Rights of the public, State of Iowa, the County, the Township and the Municipality in and to that part of the premises in question taken, used or dedicated for roads and highways; including but not limited to Instrument dated September 28, 2007 and recorded April 26, 2016 in Record [Book 5496, page 433](#) and Instrument dated September 14, 2013 and recorded January 6, 2014 in Record [Book 5195, page 952](#).
25. Rights of way for drainage ditches, drain tiles, feeders, laterals and underground pipes, if any.
26. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
27. Rights or claims of parties in possession not shown by the public records; any encroachment, encumbrance, violation variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the land; and easements and claims of easements not shown by the public records.
28. Information should be furnished establishing the present value of the land and improvements thereon. If such value is greater than the amount of insurance requested, the application should be amended to request an amount equivalent to the full value of the property, and in default thereof, the right is reserved to insert in the owner's policy the Company's usual coinsurance endorsement.

END OF SCHEDULE B, PART II

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**SCHEDULE B, PART II
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The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

GENERAL EXCEPTIONS:

1. Rights or claims of parties in possession not shown by Public Records.
2. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the Land.
3. Easements, or claims of easements, not shown by the Public Records.
4. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.
5. Taxes or special assessments which are not shown as existing liens by the Public Records.
6. The Company should be furnished a properly executed ALTA statement and, unless the land insured is a condominium unit, a survey if available. Matters disclosed by the above documentation will be shown specifically.
7. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I -Requirements are met.

Special Exceptions:

1. Taxes for the Fiscal Year 2018-2019.

Parcel No. 1015230006. (Parcel 1)

Lots 1-4, 7&8 Blk 13 & Inc Vac 20' Alley & Inc Vac Des Moines St Nly of Nly ROW RR & Ely Lts 5-6 County Seat Add.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 609 South Capitol Street, Iowa City, IA 52242.

Parcel No. 1015231001. (Parcel 2)

Lots 1-4 Blk 14 & All of Vac Des Moines St W of Madison St & S Lt 4 Inc Vac Madison St S of S/L Prentiss St & N of Nly Row/L RR & Inc Pt Blk 14 Desc Auditor's Parcel #2001127.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 640 South Madison Street, Iowa City, IA 52242.

Parcel No. 1015230004. (Parcel 3)
S 40' Lot 5 Blk 13 & Com SW Cor Lt 5; S65'; Ely to Pt; N30'; W150' to Beg.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 624 South Madison Street, Iowa City, IA 52242.

Parcel No. 1015230005. (Parcel 4)
Lot 6 & N1/2 Lot 5 Blk 13 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 620 South Madison Street, Iowa City, IA 52242.

Parcel No. 1015228004. (Parcel 5)
Pt Lts 5-8 Blk 5 & Pt Vac Front St & Prentiss St as Desc Bk42 Pg113 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1015228005. (Parcel 6)
Lots 1, 2, 3 & N30' Lt 4 Blk 5 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 517 South Madison Street, Iowa City, IA 52242.

Parcel No. 1015228003. (Parcel 7)
S50' Lt 4 Blk 5 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1015229002. (Parcel 8)
Lots 5-8 & W40' Lts 1-4 Blk 6 & Inc Alley. First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available.

Parcel No. 1015226004. (Parcel 9)
Lots 1-8 Blk 3 & Vac Harrison St Desc Bk544 Pg61. First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 500 South Madison Street, Iowa City, IA 52242.

Parcel No. 1015278004. (Parcel 10)
Lots 3,5,6,7,8 & Pt Lt 2 & Pt of Alley Blk 17 as Desc in [Bk20 pg 21](#) County Seat Add.

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(continued)

First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 700 South Clinton Street, Iowa City, IA 52242.

Parcel No. 1015227002. (Parcel 11)
Lots 1-8 & Alley Blk 4 & Inc Pt Court St & Pt Front St Desc [Bk4531 Pg 185](#) County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1015233001. (Parcel 12)
Pt Blk 24 & Front St as Desc Bk42 Pg113 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1015251001 (Parcel 13)
Lots 2 & 6 & Pts 1, 7&8 Blk 15 & Vac Front St Desc Bk794 Pg159 County Seat Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 709 South Capitol Street, Iowa City, IA 52242.

Parcel No. 1015252001 (Parcel 14)
SD OL 20, & Parkside Add & Inc Pt SE NE & NESE 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 141 East Park Road, Iowa City, IA 52242.

Parcel No. 1010208003 (Parcel 15)
Outlot 32 Lots 1-6 Ex Pts Lt 1 Colman's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010251001 (Parcel 16) Outlot 30 Iowa City.
First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010279002 (Parcel 17) Blk 88 Iowa City.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 413 North Clinton Street, Iowa City, IA 52242.

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(continued)

Parcel No. 1010279001 (Parcel 18)

Outlot 31 Iowa City.

First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 507 North Clinton Street, Iowa City, IA 52242.

Parcel No. 1010280001 (Parcel 19)

Blk 87 Iowa City (Original Town).

First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 301 North Clinton Street, Iowa City, IA 52242.

Parcel No. 1010251002 (Parcel 20)

Blk 100 Ex Pt Desc Auditor's Parcel #2000013 in [Bk46 Pg112](#) Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 335 North Capitol Street, Iowa City, IA 52242.

Parcel No. 1010328001 (Parcel 21)

Capitol Square Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available.

Parcel No. 1010327001 (Parcel 22)

Blks 98, 99 OL 36, 37 Inc Vac ROW Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available.

Parcel No. 1010253001 (Parcel 23)

OL 35 Ex Pt Desc as Auditors Parcel 2000012 [Bk46 Pg 111](#) & Inc Vac Madison St Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available.

Parcel No. 1010253001 (Parcel 24)

Pt OL 35 Desc as Auditors Parcels 2000012 [Bk46 Pg 111](#) & Auditors Parcel 2000013 Bk [46 Pg 112](#) Iowa City (Original Town).

First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 350 North Madison Street, Iowa City, IA 52242.

Parcel No. 1010251003 (Parcel 25)

Blk 89 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010280006 (Parcel 26)
Lts 5&6 Blk 86 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 213 North Clinton Street, Iowa City, IA 52242.

Parcel No. 1010280005 (Parcel 27)
Lts 1-4 Blk 86 Iowa City (Original Town).
First Installment in the amount of \$0.00. Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010326001 (Parcel 28)
Blk 85 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010326002 (Parcel 29)
Blk 90 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1010354001 (Parcel 30)
OL 41 Ex E80' & Inc Vac Court St Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [1010352001](#) (Parcel 31)
Blk 96 & Vac College St & Vac Front St Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. [1010356006](#). (Parcel 32)
Lot 5 & S 75' Lt 6 Blk 93 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 324 South Madison Street, Iowa City, IA 52242.

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(continued)

Parcel No. [1010356006](#). (Parcel 33)
Lot 5 & S 75' Lt 6 Blk 93 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 324 South Madison Street, Iowa City, IA 52242.

Parcel No. [1010385006](#). (Parcel 34)
Lts 1-4 Blk 101 Ex S70' Lt & Inc N120' of Alley 75-2772 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 301 South Clinton Street, Iowa City, IA 52242.

Parcel No. [1010352002](#). (Parcel 35)
Blk 95 & Vac Front St Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 1010353001. (Parcel 36)
OL 38&40& Vac College & Washington St W of RR Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 1010351003. (Parcel 37) Blk 92 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. [1010351002](#). (Parcel 38)
Vac College St S of Blk 91 & N of Blk 92 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 1010351001. (Parcel 39)
Blk 91 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. 1010330001. (Parcel 40)
Outlot 38 Iowa City (Original Town).
First Installment in the amount of \$0.00.

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(continued)

Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 160 EPB Way, Iowa City, IA 52242

Parcel No. [1010329001](#). (Parcel 41)
Blk 97 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. [1010310001](#). (Parcel 42)
Blk 79 Ex W 130' Lt 3 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available

Parcel No. [1010309001](#). (Parcel 43)
Blk 60 & University Park Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 340 Iowa Avenue, Iowa City, IA 52242

Parcel No. [1010306012](#). (Parcel 44)
Pt Blk 78 Iowa City (Original Town) Desc Auditor's Parcel 2017063 Survey Bk61 Pg252.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 109 East Market Street, Iowa City, IA 52242

Parcel No. [1010306006](#). (Parcel 45)
S50' W70' Lt 4 Blk 78 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 120 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010306004](#). (Parcel 46)
N50' W58' Lt 4 Blk 78 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 128 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010306005](#). (Parcel 47)
Comm 50' N SW Cor Lt 4 Blk 78 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.

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(continued)

Address currently known as: 124 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010210003](#). (Parcel 48)

N1/2 Lt 4 & W14' of N75' Lt 3 Blk 74 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 530 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010210002](#). (Parcel 49)

Comm NE Cor Lt 3 Blk 74 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 111 Church Street, Iowa City, IA 52242

Parcel No. [1010281003](#). (Parcel 50)

N37.5' of S75' Lts 3&4 Blk 75 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 422 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010281002](#). (Parcel 51)

N1/2 Lt 4 & W 40' of N75' Lt 3 Blk 75 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 430 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010286009](#). (Parcel 52)

S65' Lt 5 Blk 76 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 308 North Clinton Street, Iowa City, IA 52242

Parcel No. [1010286010](#). (Parcel 53)

W1/2 Lt 6 Blk 76 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 110 East Bloomington Street, Iowa City, IA 52242

Parcel No. [1010286006](#). (Parcel 54)

S70' Lt 4 & W25' of S70' Lt 3 Blk 76 Iowa City (Original Town).

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 322 North Clinton Street, Iowa City, IA 52242

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(continued)

Parcel No. [1010287003](#). (Parcel 55)
N100' Lt 4 Blk 77 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 230 North Clinton Street, Iowa City, IA 52242

Parcel No. 1010433004. (Parcel 56)
Lts 3& 4 Blk 25 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 605 East Jefferson Street, Iowa City, IA 52242

Parcel No. [1010433003](#). (Parcel 57)
W40' Lt 2 Blk 23 Iowa City (Original Town).
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 615 Jefferson Street, Iowa City, IA 52242

Parcel No. 1010253003. (Parcel 58)
Davenport, Madison & Bloomington St Vac Iowa City (Original Town)
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1003304008. (Parcel 59) Pt NE SW 3-79-6
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

2. Sanitary Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated January 19, 1979 and recorded March 16, 1979 in Record Book [541, page 1](#), over and across a portion of the premises; and with the terms and provisions therein contained.
3. Pipeline Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated January 26, 1988 and recorded February 17, 1988 in Record [Book 993, page 187](#), over and across a portion of the premises; and with the terms and provisions therein contained.
4. Pipeline Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated January 26, 1988 and recorded February 17, 1988 in Record Book [993, page 192](#), over and across a portion of the premises; and with the terms and provisions therein contained.
5. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Resolution Authorizing License Agreement for Telecommunications Infrastructure dated August 11, 2008 and recorded August 25, 2008 in Record Book [4342, page 730](#), made by and between City of Iowa City and University of Iowa.

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6. Utility Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated May 19, 2003 and recorded August 1, 2003 in Record Book [3602, page 473](#), over and across a portion of the premises; and with the terms and provisions therein contained.
7. Terms and provisions of the lease from Board of Regents Lessor, to State University of Iowa Foundation, Lessee, dated June 16, 2004, a memorandum of which is recorded July 12, 2004 in Record Book [3764, page 997](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 14)
8. Roadway and Utility Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated December 16, 2015 and recorded January 7, 2016 in Record Book [5462, page 589](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 14)
9. Underground Electric Easement in favor of MidAmerican Energy Co., its successors and assigns, as granted by Instrument dated December 28, 2015 and recorded February 1, 2016 in Record Book [5469, page 773](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 14)
10. Underground Electric Easement in favor of MidAmerican Energy Co., its successors and assigns, as granted by Instrument dated June 25, 2018 and recorded July 9, 2018 in Record Book [5810, page 707](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 14)
11. Terms and provisions of the lease from University of Iowa, University to Southwestco Wireless, Inc., Carrier, dated October 2, 2018, a memorandum of which is recorded November 2, 2018 in Record Book [5852, page 163](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 14)
12. Water Main Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated December 5, 2012 and recorded December 21, 2012 in Record Book [5027, page 946](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 14 and 23)
13. Gas Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated July 25, 1952 and recorded August 13, 1952 in Record Book [212, page 237](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 15)
14. Water Line Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated September 25, 1967 and recorded February 14, 1969 in Record Book [313, page 89](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 15)
15. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Easement Agreement dated September 1, 1986 and recorded January 30, 1987 in Record Book [914, page 49](#), made by and between Phi Delta Theta House Association and University of Iowa. (Affects Parcel 16)
16. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Easement Agreement dated April 1, 1986 and recorded January 30, 1987 in Record Book [914, page 58](#), made by and between Sigma Pi Foundation and University of Iowa. (Affects Parcel 16)
17. Water and Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated June 19, 1996 and recorded April 2, 1997 in Record Book [2246, page 183](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 16)

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(continued)

18. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Resolution Authorizing Agreement for Facilitating Pedestrian Streetscape dated March 17, 1992 and recorded April 17, 1992 in Record Book [1357, page 159](#), made by and between City of Iowa City and University of Iowa. (Affects Parcels 19, 28 and 29)
19. City Facilities Easement in favor of the City of Iowa City as shown on Retracement Plat of Survey dated June 25, 2003 and recorded July 10, 2003 in Survey Book [46, page 112](#). (Affects Parcel 20)
20. Electric Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated June 24, 1955 and recorded August 16, 1955 in Record Book [212, page 592](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 20)
21. Various Easements described in Warranty Deed dated June 17, 1969 and recorded July 1, 1969 in Record Book [338, page 47](#). (Affects Parcel 20)
22. Conservation Easement in favor of Historical Division of Iowa Department of Cultural Affairs, its successors and assigns, as granted by Instrument dated April 21, 2009 and recorded May 18, 2009 in Record Book [4437, page 920](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 21)
23. Electrical Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated October 21, 1982 and recorded November 24, 1982 in Record Book [636, page 67](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 22)
24. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Sidewalk Agreement dated November 15, 1988 and recorded December 30, 1988 in Record Book [1041, page 294](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 23)
25. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Amendment to Chapter 28E Agreement dated May 19, 2003 and recorded August 1, 2003 in Record Book [3602, page 483](#), made by and between Board of Regents and City of Iowa City. (Affects Parcel 23)
26. Air Rights Easement in favor of Old Brick Foundation, its successors and assigns, as granted by Instrument dated April 29, 2010 and recorded May 12, 2010 in Record Book [4587, page 931](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 27)
27. Right of Way Easement described in Warranty Deed dated May 17, 1960 and recorded May 27, 1960 in Record Book [316, page 44](#). (Affects Parcel 28)
28. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Rights of Way dated June 4, 2012 and recorded June 5, 2012 in Record Book [4918, page 621](#), made by and between City of Iowa City and University of Iowa. (Affects Parcels 28 and 29)
29. Electrical Transformer Easement in favor of Iowa-Illinois Gas & Electric Company, its successors and assigns, as granted by Instrument dated June 27, 1988 and recorded August 3, 1989 in Record Book [1074, page 521](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 30)
30. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Right of Way dated July 17, 2007 and recorded July 19, 2007 in Record Book [4192, page 344](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 32)

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(continued)

31. Utility Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated October 29, 2009 and recorded November 24, 2009 in Record Book [4531, page 199](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 32)
32. Utility Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated July 28, 2009 and recorded November 24, 2009 in Record Book [4531, page 205](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 32)
33. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Right of Way dated May 12, 2010 and recorded May 17, 2010 in Record Book [4589, page 917](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 32)
34. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Right of Way dated August 27, 2010 and recorded August 30, 2010 in Record Book [4642, page 943](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 32)
35. Underground Electric Easement in favor of MidAmerican Energy Co., its successors and assigns, as granted by Instrument dated November 9, 2015 and recorded December 4, 2015 in Record Book [5451, page 418](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 32 and 35)
36. Underground Electric Easement in favor of MidAmerican Energy Co., its successors and assigns, as granted by Instrument dated February 7, 2018 and recorded March 16, 2018 in Record Book [5766, page 264](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 35)
37. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Special Warranty Deed dated October 1, 1973 and recorded October 4, 1973 in Record Book [399, page 438](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 35)
38. Right of Way Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated November 11, 1967 and recorded March 25, 1968 in Record Book [313, page 391](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 36)
39. Telephone Easement in favor of Northwestern Bell Telephone Company, its successors and assigns, as granted by Instrument dated September 20, 1984 and recorded November 13, 1984 in Record Book [738, page 294](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 36)
40. Right of Way Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated November 10, 1967 and recorded July 15, 2009 in Record Book [4476, page 594](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 36)
41. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Special Warranty Deed dated August 3, 1978 and recorded August 13, 1978 in Record Book [471, page 39](#), made by and between City of Iowa City and University of Iowa. (Affects Parcel 37)
42. Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated June 27, 1980 and recorded August 20, 1980 in Record Book [580, page 42](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 39)
43. Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated June 27, 1980 and recorded August 20, 1980 in Record Book [580, page 46](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 39)

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(continued)

44. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Right of Way dated June 27, 2004 and recorded July 29, 2004 in Record Book [3774, page 76](#), made by and between University of Iowa and City of Iowa City. (Affects Parcel 43)
45. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Agreement for Maintenance of Right of Way dated October 13, 2003 and recorded October 14, 2003 in Record Book [3654, page 473](#), made by and between University of Iowa and City of Iowa City. (Affects Parcel 43)
46. Terms and provisions of the lease from Board of Regents Landlord, to USCOC of Greater Iowa, LLC, Tenant, dated April 6, 2011, a memorandum of which is recorded April 14, 2011 in Record Book [4740, page 551](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 59)
47. Terms and provisions of the lease from University of Iowa Lessor, to New Cingular Wireless PCS, LLC, Lessee, dated September 20, 2011, a memorandum of which is recorded November 2, 2011 in Record Book [4825, page 355](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 59)
48. Electric Easement in favor of MidAmerican Energy Company, its successors and assigns, as granted by Instrument dated October 11, 2016 and recorded October 25, 2016 in Record Book [5579, page 651](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 59)
49. Terms and provisions of the lease from University of Iowa, University, to Southwestco Wireless, Inc., Carrier, dated December 6, 2017, a memorandum of which is recorded January 22, 2018 in Record Book [5749, page 731](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 59)
50. Special assessments and special taxes, if any.
51. Easements for public and quasi-public utilities, if any.
52. Rights of the public, State of Iowa, the County, the Township and the Municipality in and to that part of the premises in question taken, used or dedicated for roads and highways.
53. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
54. Rights or claims of parties in possession not shown by the public records; any encroachment, encumbrance, violation variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the land; and easements and claims of easements not shown by the public records.
55. Rights of the public and quasi-public utilities in and to all said vacated alleys and streets, for maintenance therein of poles, conduits, sewers and other facilities.
56. Rights, if any of the United States of America, State of Iowa, the municipality and the public in and to so much of the land, if any, as may have been formed by means other than natural accretions, of which may be covered by the waters of Iowa River.
57. Consequences of the meandering of Iowa River.

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(continued)

58. Rights of the United States of America, State of Iowa, the municipality and the public in and to that part of the land lying within the bed of the Iowa River; and the rights of other owner of land bordering on the river in respect to the water of said river.
59. Information should be furnished establishing the present value of the land and improvements thereon. If such value is greater than the amount of insurance requested, the application should be amended to request an amount equivalent to the full value of the property, and in default thereof, the right is reserved to insert in the owner's policy the Company's usual coinsurance endorsement.
60. Temporary Use of Public Right of Way Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated October 8, 2019 and recorded October 9, 2019 in Record [Book 5966, page 383](#), over and across a portion of the premises; and with the terms and provisions therein contained.
61. Terms and provisions of the Ground Lease from Board of Regents, State of Iowa, Lessor, to University of Iowa Facilities Corporation, Lessee, dated October 1, 2019 and recorded October 17, 2019 in Record [Book 5969, page 303](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Part of Parcel 35)
62. Terms and provisions of the lease from University of Iowa Facilities Corporation Lessor, to Board of Regents, State of Iowa, Lessee, dated October 1, 2019, a short form of which is recorded October 17, 2019 in Record [Book 5969, page 311](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Part of Parcel 35)
63. Temporary Use of Public Right of Way Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated November 1, 2019 and recorded November 5, 2019 in Record [Book 5976, page 335](#), over and across a portion of the premises; and with the terms and provisions therein contained.

END OF SCHEDULE B, PART II

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**SCHEDULE B, PART II
EXCEPTIONS**

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDITION, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDITION, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

General Exceptions:

1. Rights or claims of parties in possession not shown by Public Records.
2. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the Land.
3. Easements, or claims of easements, not shown by the Public Records.
4. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the Public Records.
5. Taxes or special assessments which are not shown as existing liens by the Public Records.
6. The Company should be furnished a properly executed ALTA statement and, unless the land insured is a condominium unit, a survey if available. Matters disclosed by the above documentation will be shown specifically.
7. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I -Requirements are met.

Special Exceptions:

1. Taxes for the Fiscal Year 2018-2019.

Parcel No. 1016133001. (Parcel 1)
Beg NW Cor Lt 6 Paul Custer's SD Ely Along S Line Melrose Ave.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 741 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1016133004. (Parcel 2)
Com 260' S of NW Cor Lt 6 Paul Custer's SD.
First Installment in the amount of \$0.00.

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(continued)

Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 10 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016133003. (Parcel 3)
Com 203.5' S of NW Cor Lt 6 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 13 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016133002. (Parcel 4)
Com 147' S of NW Cor Lt 6 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 15 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016132004. (Parcel 5)
W66' of E132' of N617' Lt 4 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 711 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1016130003. (Parcel 6)
Com 111'W of NW Cor Lt 1 Padens Add in Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 609 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1016132002. (Parcel 7)
School Comm'r S/D in 16-79-6 Com 332' W of NE Cor Lt 4 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 701 Melrose Avenue, Iowa City, IA 52242.

Parcel No. 1016132003. (Parcel 8)
School Comm'r S/D in 16-79-6 Beg 66' E of NW Cor Lt 4 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 707 Melrose Avenue, Iowa City, IA 52242.

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(continued)

Parcel No. 1016128001. (Parcel 9)
Lots 1&2 Paden's Addition in Lt 3 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 601 Melrose Avenue, Iowa City, IA 52242.

Parcel No. 1016128003. (Parcel 10)
Lot 4 Paden's Addition in Lt 3 Paul Custer's SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 219 Melrose Court, Iowa City, IA 52242

Parcel No. 1016102001. (Parcel 11)
Pt Lt 1 W of Riverside Dr & E of Lucon SD Sch Commr Sudb 16-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016103001. (Parcel 12)
School Comm'r S/D in 16-79-6 Com 135' W of NW Cor Lt M Crowleys.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 315 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1016108001. (Parcel 13)
School Comm'r S/D in 16-79-6 Pt Lt 2 E of Oak Park Ct.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 218 Myrtle Avenue, Iowa City, IA 52246.

Parcel No. 1009479001. (Parcel 14)
Lts 6-8 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009479002. (Parcel 15)
Lt 5 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 124 Grand Avenue Court, Iowa City, IA 52242.

Parcel No. 1009479003. (Parcel 16)
Lts 3&4 & N30' Lt 2 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009479004. (Parcel 17)
Lt 1 & S20' Lt 2 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 320 Melrose Avenue, Iowa City, IA 52242.

Parcel No. 1009478002. (Parcel 18)
Lt 14 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Grand Avenue Court, Iowa City, IA 52242.

Parcel No. 1009478003. (Parcel 19)
Lt 15 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 125 Grand Avenue Court, Iowa City, IA 52242.

Parcel No. 1009478001. (Parcel 20)
SWSE & SESE N of Melrose Ave Inc Pt of Byington Pl & Inc Lts 9-13 & 16-18 Grand Ave Court Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 402 Melrose Avenue, Iowa City, IA 52242.

Parcel No. 1009179024. (Parcel 21)
Lts 15-18 Blk 9; OL 1 & Pt SENE & NESE 9-79-6 & Inc Pt Desc Bk52 Pg359.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 141 Riverside Drive, Iowa City, IA 52242.

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Parcel No. 1009179002. (Parcel 22)
Lots 19&20 Blk 9 & Ely 1/2 Vac Alley Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 109 River Street, Iowa City, IA 52242.

Parcel No. 1009182002. (Parcel 23)
Syverud's Subd of Pt Blk 4 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 108 River Street, Iowa City, IA 52242.

Parcel No. 1009105006. (Parcel 24)
Lts 2, 3, 4, 5&6 Blk 3 Ex W45' Lt 2 & N160' Lts 5&6 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 131 Grove Street, Iowa City, IA 52242.

Parcel No. 1009105002. (Parcel 25)
Lts 7, 8, 9 Blk 3 Ex N160' Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 435 Ridgeland Avenue, Iowa City, IA 52242.

Parcel No. 1009106003. (Parcel 26)
Lt 3 Blk 4 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009106002. (Parcel 27)
Lt 2 Blk 4 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: North Riverside Drive, Iowa City, IA 52242.

Parcel No. 1009106001. (Parcel 28)
Lt 1 Blk 4 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 405 North Riverside Drive, Iowa City, IA 52242.

Parcel No. 1009105001. (Parcel 29)
E4' N100' Lt 8 & N160' Lt 9 & S60' N160' Lt 8 Blk 3 Manville Heights Add.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 103 Grove Street, Iowa City, IA 52242.

Parcel No. 1009183014. (Parcel 30)
Pt Lt 13 Blk 10 Manville Heights Add Desc Auditors Parcel #2001086 Bk43 Pg220.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016134006. (Parcel 31)
Lt 6 Ex Com SE Cor Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 6 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134007. (Parcel 32)
Lt 7 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 7 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134001. (Parcel 33)
Lt 1 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 1 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134010. (Parcel 34)
Pt of Melrose Place vac by City Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

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(continued)

Parcel No. 1016134002. (Parcel 35)
Lt 2 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134003. (Parcel 36)
Lt 3 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 3 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134004. (Parcel 37)
Lt 4 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 4 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134005. (Parcel 38)
Lt 5 & Beg SE Cor Lt 6 Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 5 Melrose Place, Iowa City, IA 52246.

Parcel No. 1016134008. (Parcel 39)
Lt 8 Ex Pt Melrose Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 8 Melrose Place, Iowa City, IA 52246.

Parcel No. 1009481001. (Parcel 40)
Lots 1-3&6-15 Varsity Heights.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009481001. (Parcel 41)
Lots A-E Byingtons River View Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: South Grand Avenue, Iowa City, IA 52242.

Parcel No. 1009476001. (Parcel 42)
Pt Byington Place & unplatted land N of Byingtons River View Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 180 South Grand Avenue, Iowa City, IA 52242.

Parcel No. 1009284001. (Parcel 43)
Lots 4,5,6,7 & Beg SE Cor Lt 8 Ackermans Subdivision.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 1 Woolf Avenue Court, Iowa City, IA 52242.

Parcel No. 1016101001. (Parcel 44)
Pt Rupeners Riverview Add & Pt Crowleys Riverview Add E of Riverside Dr.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009480001. (Parcel 45)
Tract N of Melrose Ave, S of Grand Ave 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016201010. (Parcel 46)
Lt 8 Triangle Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 8 Triangle Place, Iowa City, IA 52246.

Parcel No. 1016201009. (Parcel 47)
Lt 7 Triangle Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 7 Triangle Place, Iowa City, IA 52246.

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(continued)

Parcel No. 1016201010. (Parcel 48)
Lt 2 Triangle Place.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 807 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1017117001. (Parcel 49)
Outlot A University Athletic Club SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1017117009. (Parcel 50)
Lt 1 University Athletic Club SD.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 1360 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1016106002. (Parcel 51)
Lt 3 Oak Park Court.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 3 Oak Park Court, Iowa City, IA 52242.

Parcel No. 1016106001. (Parcel 52)
Lt 4 Oak Park Court.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 4 Oak Park Court, Iowa City, IA 52242.

Parcel No. 1016104001. (Parcel 53)
Lot 1 Ex S24.8' Lucon Sub.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016104002. (Parcel 54)
Lot 8 & N20' Lt 7 Lucon Sub.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.

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(continued)

Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 223 Lucon Drive, Iowa City, IA 52242.

Parcel No. 1009482001. (Parcel 55)
Tract in SE SE E of Riverside Dr 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016129004. (Parcel 56)
Lot 4 Melrose Court Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Melrose Court, Iowa City, IA 52242.

Parcel No. 1016129001. (Parcel 57)
Lot 1 Melrose Court Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 229 Melrose Court, Iowa City, IA 52242.

Parcel No. 1016129005. (Parcel 58)
Lot 5 Melrose Court Addition.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 311 Melrose Court, Iowa City, IA 52242.

Parcel No. 1006451001. (Parcel 59)
Tract S1/2 6-79-6 Desc Bk310 Pg70.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1007426001. (Parcel 60)
S1/2 NE & All SE 7-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 2820 Prairie Meadow Drive, Iowa City, IA 52246.

Parcel No. 1007126001. (Parcel 61)

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(continued)

NWNE & Pt NENE 7-79-6.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa. Address currently known as: Not Available.

Parcel No. 1008178001. (Parcel 62)

Univ Sports Complex in 8-79-6 & 9-79-6.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available.

Parcel No. 1008276001. (Parcel 63)

Pt NW& NESW Desc Auditors Parcel 2010003 Bk57 Pg255.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 158 Hawkeye Court, Iowa City, IA 52246.

Parcel No. 1008251002. (Parcel 64)

Pt NW, SW 8-79-6 S of RR Ex Auditors Parcel 2010003 Bk57 Pg255.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 2555 Prairie Meadows Drive, Iowa City, IA 52246.

Parcel No. 1008426001. (Parcel 65)

Pt NE, NW, SW&SE S of RR Ex University Athletic Club SD.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 1380 Melrose Avenue, Iowa City, IA 52246.

Parcel No. 1009326001. (Parcel 66)

Tract in NWSW S & W of Iowa Interstate 9-79-6.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: Not Available.

Parcel No. 1009376001. (Parcel 67)

Pt SESW N & E of RR & S Hawkins Dr 9-79-6.

First Installment in the amount of \$0.00.

Second Installment in the amount of \$0.00.

Assessed in the name of Board of Regents State of Iowa.

Address currently known as: 968 Evashevski Drive, Iowa City, IA 52242.

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(continued)

Parcel No. 1009427001. (Parcel 68)
W1/2SE, NWSW & NESE Inc Pt Byington Pl 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 169 Newton Road, Iowa City, IA 52242.

Parcel No. 1009426001. (Parcel 69)
NWSE & NESE N of Newton Rd 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009401001. (Parcel 70)
Tract in NESE 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009259001. (Parcel 71)
S of Hwy 6 in SW&NW N of Hawkins & W of Elliot Dr 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009102001. (Parcel 72)
125' x 300' in NENE Lying W Ferson & S of Park Rd Dr 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1009101001. (Parcel 73)
Land Bounded by Park Rd, Riverside Dr, Grove St & Ferson Ave 9-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 7 Park Road, Iowa City, IA 52242.

Parcel No. 1009403001. (Parcel 74)
Pt NE SE Lying E Riverside Dr & S of Iowa Ave 9-79-6.
First Installment in the amount of \$0.00.

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(continued)

Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1017102001. (Parcel 75)
W243' NE NE N of Melrose Ave 17-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1017126001. (Parcel 76)
Pt NW NE N of Melrose Ave 17-79-6.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: Not Available.

Parcel No. 1016130001. (Parcel 77)
Com NW Cor Lt 1 Padens Add in Custer Subdivision.
First Installment in the amount of \$0.00.
Second Installment in the amount of \$0.00.
Assessed in the name of Board of Regents State of Iowa.
Address currently known as: 605 Melrose Avenue, Iowa City, Iowa 52242.

2. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Amendment to Contract for Sewer Facilities dated March 28, 1969 and recorded April 29, 1969 in Record Book [332, page 54](#), made by and between Board of Regents and City of Coralville.
3. Sanitary Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated January 19, 1979 and recorded March 16, 1979 in Record Book [541, page 1](#), over and across a portion of the premises; and with the terms and provisions therein contained.
4. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Resolution Authorizing Agreement to Install, Operate and Maintain Fiber Optic Network dated July 15, 1997 and recorded July 22, 1997 in Record [Book 2311, page 269](#), made by and between City of Iowa City and University of Iowa.
5. Sewer Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated June 21, 1993 and recorded July 1, 1993 in Record Book [1572, page 237](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 11)
6. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Entrance Permit dated July 16, 1998 and recorded July 22, 1998 in Record Book [2531, page 145](#), made by and between Iowa Department of Transportation and University of Iowa. (Affects Parcel 13)

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(continued)

7. Sanitary Sewer Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated November 16, 2000 and recorded November 28, 2001 in Record Book [3180, page 602](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 13)
8. Storm Sewer and Drainage Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated April 25, 2018 and recorded April 27, 2018 in Record Book [5778, page 308](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 13)
9. Right of Way Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated April 25, 2018 and recorded April 27, 2018 in Record Book [5778, page 313](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 13)
10. Terms, conditions, provisions, and obligations as contained in Agreement for Snow and Ice Removal on Grand Avenue Court dated March 7, 2003 and recorded October 8, 2003 in Record Book [3652, page 353](#), made by and between University of Iowa and City of Iowa City. (Affects Parcels 14-20)
11. Terms, conditions, provisions, and obligations as contained in Agreement for Maintenance of Grand Avenue Right of Way dated June 9, 2009 and recorded June 17, 2009 in Record Book [4456, page 976](#), made by and between University of Iowa and City of Iowa City. (Affects Parcels 14-20)
12. Water Main and Sanitary Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated January 16, 2003 and recorded October 8, 2003 in Record Book [3652, page 355](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 14-20)
13. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Declaration of Restrictive Covenant dated July 18, 2003 and recorded October 8, 2003 in Record Book 3652, page 360, made by Board of Regents. (Affects Parcel 17)
14. Terms and provisions of the Building and Rooftop License Agreement from University of Iowa, University, to Southwestco Wireless Inc., Carrier, dated April 20, 2017, a memorandum of which is recorded May 1, 2017 in Record Book [5642, page 893](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 20)
15. Pedestrian Bridge, Roadway and Utility Easement as shown on the Plat of Survey of Auditor's Parcel 2007142 recorded February 21, 2008 in Survey Book [52, page 359](#). (Affects Parcel 21)
16. Terms, conditions, provisions, restrictions, limitations and obligations as contained in License Agreement for Occupation of Railway Corridor dated November 18, 1999 and recorded December 7, 1999 in Record Book [2873, page 216](#), made by and between Cedar Rapids and Iowa City Railway and University of Iowa. (Affects Parcel 21)
17. Terms and provisions of the lease from Board of Regents, Lessor, to University of Iowa Facilities Corporation, Lessee, dated March 1, 2010 and recorded March 4, 2010 in Record [Book 4562, page 371](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 21)

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(continued)

18. Terms and provisions of the lease from University of Iowa Facilities Corporation Lessor, to Board of Regents, Lessee, dated March 4, 2010, a memorandum of which is recorded March 4, 2010 in Record Book [4562, page 380](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 21)
19. Terms, conditions, provisions, and obligations as contained in Agreement Regarding Vacation dated February 26, 1986 and recorded October 13, 1986 Record Book [888, page 36](#), made by and between University of Iowa and City of Iowa City. (Affects Parcel 40)
20. Gas Pipeline Easement in favor of Iowa Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated June 14, 1994 and recorded February 9, 1995 in Record Book [1867, page 8](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 44)
21. Sanitary Sewer and Storm Sewer and Drainage Easement in favor of One University Place LLC, its successors and assigns, as granted by Instrument dated September 9, 2015 and recorded October 19, 2015 in Record Book [5435, page 750](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 49 and 50)
22. Ten foot utility easement along the Southerly line of Outlot "A" of University Athletic Club Subdivision, as shown on the Plat of said Subdivision. (Affects Parcel 49)
23. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Private Water Service Line and Access Easement Agreement dated March 17, 2014 and recorded March 20, 2014 in Record Book [5212, page 418](#), made by and between Board of Regents and Benjamin E. Reinking and Lynn B. Geick. (Affects Parcel 53)
24. Terms, provisions, easements and obligations as contained in Joint Driveway Agreement dated January 11, 2006 and recorded January 12, 2006 in Record Book 3982, page 693, made by and between South Liberty, Inc. and University of Iowa Facilities Corporation. (Affects Parcel 58)
25. Conservation Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated March 26, 2013 and recorded May 14, 2013 in Record Book [5091, page 724](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 59 and 63)
26. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Grant of Covenants dated August 20, 2013 and recorded September 4, 2013 in Record Book [5155, page 9](#), made by and between Board of Regents and Rock Island District of US Army Corps of Engineers. (Affects Parcel 59)
27. Electric Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated March 12, 1981 and recorded August 13, 1981 in Record Book [600, page 235](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 62)
28. Sanitary Sewer Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated February 9, 1973 and recorded January 7, 1993 in Record Book [1487, page 276](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 63)

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(continued)

29. Terms and provisions of the lease from Board of Regents Lessor, to BBCS-Hawkeye Housing, LLC, Lessee, dated May 31, 2013, a memorandum of which is recorded June 4, 2013 in Record Book [5101, page 599](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 63)
30. Access Easement in favor of BBCS-Hawkeye Housing, LLC, its successors and assigns, as granted by Instrument dated May 31, 2013 and recorded June 4, 2013 in Record Book [5101, page 604](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 63)

And as Amended by Amendment to Access Easements Agreement recorded May 22, 2015 in Record Book [5367, page 857](#).

31. Leasehold Mortgage, Assignment of Leases and Rents, Security Agreement and Fixture Filing dated May 31, 2013 and recorded June 4, 2013 in Record Book [5101, page 610](#), made by BBCS-Hawkeye Housing, LLC to Wells Fargo Bank, National Association which states that it secures a debt in the principal sum of \$28,034,000.00. (Affects Parcel 63)
32. Gas Easement in favor of MidAmerican Energy Company, its successors and assigns, as granted by Instrument dated May 26, 2015 and recorded June 5, 2015 in Record Book [5374, page 618](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 63)
33. Gas Easement in favor of MidAmerican Energy Company, its successors and assigns, as granted by Instrument dated May 26, 2015 and recorded June 5, 2015 in Record Book [5374, page 623](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 63)
34. Gas Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated July 19, 1968 and recorded November 18, 1968 in Record Book [324, page 245A](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 64)
35. Gas Easement in favor of Natural Gas Pipeline Company, its successors and assigns, as granted by Instrument dated August 16, 1932 and recorded September 28, 1932 in Record Book 160, page 99 , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)

And Exercise of Option recorded August 30, 1933 in Record Book 136, page 266;

And Receipt and Acknowledgement recorded July 23, 1964 in Record Book 247, page 386.

36. Gas Easement in favor of Natural Gas Pipeline Company, its successors and assigns, as granted by Instrument dated August 30, 1932 and recorded September 21, 1932 in Record Book 160, page 62 , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)

And Exercise of Option recorded September 27, 1933 in Record Book 160, page 133;

And Receipt and Acknowledgement recorded July 23, 1964 in Record Book 247, page 385.

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(continued)

37. Transmission Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated August 3,1946 and recorded September 9,1947 in Record [Book 180, page 136](#) , over and across a portion of the premises; and with the terms and provisions therein contained.
38. Transmission Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated August 3,1947 and recorded September 10,1947 in Record Book [180, page 137](#), over and across a portion of the premises; and with the terms and provisions therein contained.
39. Transmission Easement in favor of Iowa-Illinois Gas & Electric Company, its successors and assigns, as granted by Instrument dated September 12,1952 and recorded October 29,1953 in Record Book 212, page 404 , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
- And Partial Release of Easement recorded June 5, 1990 in Record Book [1132, page 318](#);
- And Partial Release of Easement recorded November 16, 1990 in Record Book [1184, page 303](#).
40. Sewer Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated October 15,1965 and recorded April 27,1967 in Record Book [300, page 176](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
41. Transmission Easement in favor of Iowa-Illinois Gas & Electric Company, its successors and assigns, as granted by Instrument dated April 14,1967 and recorded July 13,1967 in Record Book [305, page 379](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
42. Telephone Easement in favor of Board of Regents, its successors and assigns, as granted by Instrument dated August 1, 1988 and recorded August 22, 1988 in Record Book [1022, page 90](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
43. Gas Pipeline Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated June 14,1994 and recorded February 9,1995 in Record Book [1867, page 14](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
44. Storm Sewer and Drainage Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated March 20, 1996 and recorded May 20, 1996 in Record Book [2084, page 20](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
45. Right of Way and Utility Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated October 15,2002 and recorded October 21,2002 in Record Book [3404, page 618](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
46. Sanitary Sewer and Pedestrian Trail Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated July 18,1998 and recorded September 22,1998 in Record Book [2582, page 125](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)

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(continued)

47. Right of Way and Improvement Easement in favor of City of Coralville, its successors and assigns, as granted by Instrument dated November 20, 2000 and recorded March 20, 2001 in Record Book [3045, page 334](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 62-65)
48. Water Main Easement in favor of City of Iowa City, its successors and assigns, as granted by Instrument dated September 24, 1998 and recorded February 10, 1999 in Record Book [2675, page 19](#) , over and across a portion of the premises; and with the terms and provisions therein contained.
49. Drainage Easement in favor of University of Iowa, its successors and assigns, as granted by Instrument dated August 8, 1975 and recorded August 11, 1975 in Record Book [448, page 236](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 65)
50. Natural Gas Pipeline Easement in favor of MidAmerican Energy Company, its successors and assigns, as granted by Instrument dated November 20, 1997 and recorded March 5, 1998 in Record Book [2435, page 9](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 67)
51. Terms and provisions of the Building and Rooftop License Agreement from University of Iowa, University, to Southwestco Wireless Inc., Carrier, dated February 22, 2017, a memorandum of which is recorded March 3, 2017 in Record Book [5623, page 696](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 67)
52. Easement in favor of Veterans Affairs of the United States to the University of Iowa, its successors and assigns, as granted by Instrument dated May 31, 1947 and recorded May 3, 1954 in Record Book [212, page 487](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
53. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Application for Permit to Construct dated September 2, 1969 and recorded September 11, 1969 in Record Book [337, page 193](#) , made by and between Iowa State Highway Commission and The State University of Iowa. (Affects Parcel 68)
54. Terms and provisions of the lease from Iowa State Board of Regents, Lessor, to The University of Iowa Facilities Corporation, Inc., Lessee, dated April 11, 1985 and recorded September 17, 1985 in Record Book [799, page 69](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
55. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Entrance Permit dated August 18, 1997 and recorded September 8, 1997 in Record book [2338 page 99](#) , made by and between Iowa Department of Transportation and University of Iowa. (Affects Parcel 68)
56. Easement in favor of The Department of Veterans Affairs, its successors and assigns, as granted by Instrument dated September 18, 1997 and recorded October 10, 1997 in Record Book [2355, page 17](#) , over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
57. Terms and provisions of the lease from State of Iowa through Iowa State Board of Regents, Lessor, to University of Iowa Facilities Corporation, Lessor, dated August 11, 1998 and recorded September 15, 1998 in Record Book [2577, page 215](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)

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(continued)

58. Terms and provisions of the lease from University of Iowa Facilities Corporation Lessor, to State of Iowa, Acting by and through the Iowa State Board of Regents, Lessee, dated August 11, 1998, a memorandum of which is recorded September 15, 1998 in Record Book [2577, page 221](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
59. Indenture of Trust dated August 11, 1998 and recorded September 15, 1998 in Record Book [2577, page 260](#), made by University of Iowa Facilities Corporation to Norwest Bank Iowa, NA as Trustee which states that it secures a debt in the principal sum of \$22,250,000.00. (Affects Parcel 68)
60. Terms and provisions of the lease from State of Iowa by Iowa State Board of Regents, Lessor, to University of Iowa Facilities Corporation, Lessee, dated August 11, 1998 and recorded September 29, 1998 in Record Book [2586, page 9](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
- And as Amended October 11, 2000 in Record Book [3010, page 333](#).
- And as Amended recorded July 16, 2002 in Record Book 3336, page 311.
- And as Amended recorded August 8, 2002 in Record Book [3353, page 235](#).
61. Easement in favor of Department of Veterans Affairs, its successors and assigns, as granted by Instrument dated October 5, 1998 and recorded October 12, 1998 in Record Book [2594, page 39](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
62. Easement in favor of Department of Veterans Affairs, its successors and assigns, as granted by Instrument dated September 27, 1999 and recorded October 11, 1999 in Record [Book 2842, page 207](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
63. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Entrance Permit dated November 30, 1999 and recorded January 3, 2000 in Record Book [2885, page 42](#) made by and between Iowa Department of Transportation and University of Iowa. (Affects Parcel 68)
64. Terms, conditions, provisions, restrictions, limitations and obligations as contained in Entrance Permit dated November 30, 1999 and recorded January 3, 2000, in Record Book [2885, page 55](#) made by and between Iowa Department of Transportation and University of Iowa. (Affects Parcel 68)
65. Easement in favor of The Department of Veterans Affairs, its successors and assigns, as granted by Instrument dated June 15, 2000 and recorded August 23, 2000 in Record [Book 2999, page 39](#) as, over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
66. Easement in favor of The Department of Veterans Affairs, its successors and assigns, as granted by Instrument dated June 7, 2001 and recorded June 26, 2001 in Record Book [3082, page 49](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)

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67. Terms and provisions of the lease from University of Iowa Facilities Corporation, Lessor, to Board of Regents, State of Iowa, Lessee, dated September 19, 2002 and recorded October 16, 2002 in Record Book [3401, page 1](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
68. Terms and provisions of the lease from Board of Regents, State of Iowa, Lessor, to University of Iowa Facilities Corporation, Lessee, dated September 19, 2002 and recorded October 16, 2002 in Record Book [3401, page 7](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
69. Terms and provisions of the lease from University of Iowa Facilities Corporation, Lessor, to Board of Regents, State of Iowa, Lessee, dated October 1, 2005 and recorded March 3, 2006 in Record Book [3996, page 699](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
70. Notice of Federal Interest given by the National Center for Research Resources to The University of Iowa dated August 23, 2006 and recorded August 23, 2006 in Record Book [4073, page 828](#). (Affects Parcel 68)
71. Notice of Federal Interest given by the National Center for Research Resources to The University of Iowa dated August 23, 2006 and recorded August 23, 2006 in Record [Book 4073, page 834](#). (Affects Parcel 68)
72. Notice of Federal Interest given by the National Center for Research Resources to The University of Iowa dated August 23, 2006 and recorded August 23, 2006 in Record Book [4073, page 837](#). (Affects Parcel 68)
73. Notice of Federal Interest given by the National Center for Research Resources to The University of Iowa dated August 23, 2006 and recorded August 23, 2006 in Record Book [4073, page 840](#). (Affects Parcel 68)
74. Terms and provisions of the lease from University of Iowa, Lessor, to State of Iowa through the Board of Regents, Lessee, dated May 1, 2009 and recorded May 28, 2009 in Record [Book 4445, page 84](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
75. Terms and provisions of the lease from University of Iowa Facilities Corporation, Lessor, to State of Iowa through the Board of Regents, Lessee, dated August 1, 2011 and recorded August 31, 2011 in Record Book [4798, page 433](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
76. Terms and provisions of the lease from Board of Regents, State of Iowa, Lessor, to University of Iowa Facilities Corporation, Lessee, dated August 1, 2011 and recorded August 31, 2011 in Record Book [4798, page 424](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)
77. Terms and provisions of the lease from University of Iowa Facilities Corporation, Lessor, to State of Iowa through the Board of Regents, Lessee, dated September 19, 2002 and recorded March 8, 2012 in Record Book [4880, page 257](#) and all rights thereunder of; and all acts done or suffered thereunder by said lessee or any parties claiming by, through or under said lessee. (Affects Parcel 68)

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78. Access Easement in favor of Board of Regents, State of Iowa on behalf of The University of Iowa, its successors and assigns, as granted by Instrument dated December 6, 2013 and recorded February 4, 2014 in Record Book [5203, page 16](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcel 68)
79. Gas Pipeline Easement in favor of Iowa-Illinois Gas and Electric Company, its successors and assigns, as granted by Instrument dated June 14, 1994 and recorded February 9, 1995 in Record Book [1867, page 2](#), over and across a portion of the premises; and with the terms and provisions therein contained. (Affects Parcels 77 and 78)
80. Special assessments and special taxes, if any.
81. Easements for public and quasi-public utilities, if any.
82. Rights of the public, State of Iowa, the County, the Township and the Municipality in and to that part of the premises in question taken, used or dedicated for roads and highways.
83. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
84. Rights or claims of parties in possession not shown by the public records; any encroachment, encumbrance, violation variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the land; and easements and claims of easements not shown by the public records.
85. Rights of the public and quasi-public utilities in and to all said vacated alleys and streets, for maintenance therein of poles, conduits, sewers and other facilities.
86. Rights, if any of the United States of America, State of Iowa, the municipality and the public in and to so much of the land, if any, as may have been formed by means other than natural accretions, of which may be covered by the waters of Iowa River.
87. Consequences of the meandering of Iowa River.
88. Rights of the United States of America, State of Iowa, the municipality and the public in and to that part of the land lying within the bed of the Iowa River; and the rights of other owner of land bordering on the river in respect to the water of said river.

END OF SCHEDULE B, PART II

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SCHEDULE 11

ONGOING UTILITY SYSTEM PROJECTS

Overview of Ongoing Utility System Projects

Status	Project #	Project Name
Design	0647206	Turbine Generators Procurement and Installation
<i>Hold</i>	0695801	Programming and Setup
Design	0698301	Replace Old Capitol Tunnel
Study	0739501	Assessment of River Water Intake System
Design	0741201	Rehabilitate Gravity Filters
Construction	0746301	Water Plant – Replace Chemical Process Piping
<i>Hold</i>	<i>0748201</i>	<i>Install AMAG Security System</i>
Design	0791901	Replace Steam Service on North Clinton Street
Design	0795401	Installation of Raw Water Flow Control Valve
Study	0802701	Evaluate Oakdale Water System Chemical Injection Systems
Construction	0806701	Install Bulkhead Door at South End of IMU Tunnel
<i>Hold</i>	0808801	Remove Boiler Building and Restore Lot 11
Construction	0811701	Replace Steam Vault Near Pappajohn Business Building
Preliminary	0814301	Replace Utility Vault Doors
Construction	0819501	Install Temporary East Campus Chillers
<i>Hold</i>	0822201	FY20 Utility Feasibility Study Services (Main Campus)
<i>Hold</i>	0822301	FY20 Utility Feasibility Study Services (Oakdale Campus)
<i>Hold</i>	0822401	FY20 Water System Modeling Services (Oakdale Campus)
<i>Hold</i>	0822501	FY20 Water System Modeling Services (Main Campus)
Construction	0753301	Chilled Water Plant 2 (West) – Upgrade Condenser Water System Flow Meters
Construction	0756901	Field House – Replace Hatches for Tunnel
Construction	0647207	Power Plant – Boiler 12 Controls
Construction	0647205	Power Plant – Procure and Install Boiler
Construction	0654201	Pharmacy Building – Replace WFI Still
Construction	0754701	Oakdale Shops Building A - Replace Steam and Condensate at Shops A and D
Construction	0831301	Utilities Distribution System - Replace Section of Sanitary Sewer at Oakdale Campus

Project Update Report - 0647206

11/26/2019

Project Number:	0647206	Hospital ID:	
Location:	Power Plant	Project Status:	Design
Project Title:	Turbine General Construction		
Project Manager:	Scherrer, Edward	Customer:	
Construction Manager:	Keating, Brian	Customer Contact:	
Consultant		Net Sq. Feet:	0
Project Request Date:	02/06/2017	Budget:	\$23,794,123 (Revised)
Bid Opening:	01/09/2020	Funding:	\$18,487,970
Construction Completion:	12/31/2020	Estimate:	\$21,848,388

Scope Statement:

This project will procure and install two steam turbine driven electrical generators (TG#7 & TG#8) to replace existing TG1 & TG5.

Project Description:

This project is part of a program that will design-bid-build additional electrical generation capacity at the Power Plant by replacing TG#1 & TG#5 with new, more efficient, owner supplied units. These new units will be placed in the same locations currently occupied by the existing units. By separate project (0647205), steam generation capacity at the Power Plant will be increased with the addition of a natural gas fired boiler. The boiler design will maintain space available for a second boiler, as campus steam demand requires, at a future date.

Schedule Needs:

The need for firm boiler steam capacity is on the horizon during the '18-'19 winter heating season as well as the new TG's need to be available for 2020 summer curtailment use. The project, however, is to take the time needed to design to the optimum recommendation to conserve Utility funding.

Progress Notes:

11/22/2019

Addendum #1 issued to change the 12/4/19 pre-bid to 12/6/19 in order to avoid conflict with the Old Capitol Tunnel project whose bid date had recently moved to 12/4.

11/18/2019

Revised BUI budget to reflect adding river water cooling control and upgraded contractor qualifications.

Project Update Report - 0695801

11/26/2019

Project Number:	0695801	Hospital ID:	
Location:	Independence Road Annex	Project Status:	Hold
Project Title:	Programming and Setup		
Project Manager:	Cannon, Adam	Customer:	Facilities Management
Construction Manager:		Customer Contact:	Glen Mowery
Consultant	Solum Lang Architects LLC	Net Sq. Feet:	0
Project Request Date:	11/28/2016	Budget:	\$683,537 (Preliminary)
Bid Opening:		Funding:	\$7,500
Construction Completion:	05/30/2020	Estimate:	\$84,079

Scope Statement:

Develop a scope of work for a mezzanine and storage shelving at IRA.

Project Description:

A mezzanine and shelving are desired to utilize space located above trailer-mounted pumps. This project will review the space needs specific to the Utility group and develop a scope of work to be reviewed by other FM stakeholders prior to obtaining pricing. Any improvements will be made in a way that is flexible and usable by all FM groups in the future. Procurement of a forklift is also part of this project.

Schedule Needs:

Develop a scope of work to be reviewed and approved by University stakeholders in the Spring of 2019.

Progress Notes:

08/16/2019

No Updates to report.

08/09/2019

No updates to report.

Project Update Report - 0698301

11/26/2019

Project Number:	0698301	Hospital ID:	
Location:	Utilities Distribution System	Project Status:	Design
Project Title:	Replace Old Capitol Tunnel		
Project Manager:	Cannon, Adam	Customer:	Facilities Management
Construction Manager:	Dykstra, Dean	Customer Contact:	Julie Sychra
Consultant	Snyder & Associates Inc	Net Sq. Feet:	0
Project Request Date:	12/15/2016	Budget:	\$11,500,000 (Adjust)
Bid Opening:	12/04/2019	Funding:	\$11,500,000
Construction Completion:	09/24/2021	Estimate:	\$11,500,000

Scope Statement:

Replace the Old Capitol Tunnel utilities.

Project Description:

This project will install direct-buried, insulated, high and low pressure steam and condensate piping beneath the sidewalk of Madison Street from Burlington Street to Washington Street. Once the new piping is installed and operational the existing Old Capitol Tunnel and utilities within will be abandoned and/or demolished.

This project will include complete site restoration of the east sidewalk of Madison Street in front of: Lindquist Center, Communications Center, and Seamans Center. Also included in this project is the final site restoration of the Communications Center site into a greenspace and pedestrian plaza greenspace with pedestrian plaza. The demolition and abatement of Communications Center is under a separate project (0769301).

Funding for this project is as follows (in Construction dollars):

\$ 8,254,000: Utilities Group - Main funding group

\$ 428,000: Central Admin - Comm Center Site Restoration, final amount to be based on breakout price in bid-form

\$ 75,000: City of Iowa City - Utilities will fund initially, and will be reimbursed by City of Iowa City based on breakout price in bid-form

\$ 35,000: B&LS - Lindquist Plaza railing, ramp, stair improvements

\$ 36,000: Cambus/P&T - Bus Shelter furnish and install plus power and data

\$ 7,000: UI ITS - Replace ITS Vault roof/roadway panel

Schedule Needs:

Project will be constructed in two phases with the south half in 2020, and the north half in 2021.

Progress Notes:

11/15/2019

Final Addendum (#2) was issued today. Bid Opening is Thursday

11/12/2019

See attached signed and sealed Addendum #1.

Project Update Report - 0739501

11/26/2019

Project Number:	0739501	Hospital ID:	
Location:	Power Plant	Project Status:	Study
Project Title:	Assessment of River Water Intake System		
Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Benjamin Anderson
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	10/30/2017	Budget:	
Bid Opening:		Funding:	\$130,000
Construction Completion:	06/01/2021	Estimate:	

Scope Statement:

Conduct a Power Plant water intake assessment pursuant to 316(b) of the Clean Water Act 40CFR122.21(rii).

Project Description:

The University of Iowa operates its Main Power Plant adjacent to the Iowa River, producing steam and electricity to campus. This operation requires the use of river water to serve steam condensers and other plant process cooling loads. This assessment will require a design professional to compile data from the University of Iowa, Army COE, IDNR, etc. (&r2 through r8) and prepare a report for submittal to the IDNR that meets the code requirements. Progress updates are required by the IDNR with the final, complete report due for submittal prior to December, 2, 2021. If the study results dictate, addition Power Plant design-bid-build work scope may be required and will be negotiated with the study DP if needed.

Schedule Needs:

The final results of the assessment and other required studies must be submitted to the IDNR prior to 12/02/2021.

Progress Notes:

11/25/2019

Conference call this AM indicated no change from previous schedule. December conference call will be cancelled.

10/28/2019

During the monthly conference call this morning, it was confirmed that the final deliverable could be moved up To March 1. 2020 without any problems or adds to the current PSA. The final draft report will be submitted in January for final review before the 3/1 delivery date. There will be additional interim review docs sent mid-December, '19 for sections 3,5 & 8 in support of the final report. No infrastructure upgrade is anticipated at this point in the study effort.

Project Update Report - 0741201

11/26/2019

Project Number:	0741201	Hospital ID:	
Location:	Water Plant	Project Status:	Design
Project Title:	Rehabilitate Gravity Filters		

Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:	Cassidy, Daniel	Customer Contact:	Benjamin Fish
Consultant	Short-Elliott-Hendrickson Incorporated	Net Sq. Feet:	0

Project Request Date:	11/16/2017	Budget:	\$4,000,000 (Adjust)
Bid Opening:	12/17/2019	Funding:	\$4,000,000
Construction Completion:	10/30/2020	Estimate:	\$4,000,000

Scope Statement:

This project rehabilitates six granular media gravity filters to a common configuration and media fill at the Water Plant using the design-bid-build project delivery approach.

Project Description:

This project rehabilitates six granular media gravity filters to a common configuration and media fill at the Water Plant.

Specifically, the existing media will be removed from each filter. Existing wash troughs will be retained and reused. The under drain system will be inspected and repaired, as needed. Air wash grids will be installed in Filters 1 thru 4 to match the air scour system used in Filters 5 and 6. Each filter will be equipped with filter to waster piping. Filter media will be replaced, consisting of 18 inches of anthracite, 15 inches of sand and 12 inches of gravel support. Flow control valves, instrumentation and controls will be added/upgraded.

Schedule Needs:

Gravity filters upgrade in operation by December 2021.

Progress Notes:

11/22/2019

Final bid docs should be available from SEH mid next week (11/27/19) for placing in "shovel ready" status.

11/19/2019

At UIU's direction, requested a P-Req and order placed for one underdrain system.

Construction Update Report - 11/26/2019

Project Number: 0746301

Hospital ID:

Project Title: Water Plant - Replace Chemical Process Piping

Scope Statement:

Construction Manager: Cassidy, Daniel

This project includes replacement of lime bin dust collector equipment, replacement of portions of chlorine piping, replacement of portions of ferric piping, and replacement and improvements to lime unloading piping.

Customer: FM Utilities

Customer Contact: Benjamin Fish

Contractor: Arc Mechanical Inc

Contractor Contact:

Consultant: HR Green Inc

Consultant Contact: Andrew Marsh

Project Budget: 612,500 (Adjust)

Current Contingency: 25,509

Funding Adjustment: 0

Original Contract Amt: 439,857

Revised Contract Amt: 439,857

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 0 / 0.00%

Contract Award: 09/26/2019

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 04/22/2020

**Days Remaining to Sub.
Completion:** 148

**Revised Contract Sub.
Completion:** 04/22/2020

% Contract Time Elapsed: 29.00%

**CM Estimated Sub.
Completion:** NA

% Contract Paid To Date: 10.32%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

09/27/2019

Post bid budget adjustment completed on 9/27/19.

09/11/2019

Good attendance at pre-bid meeting. Bids due on 9/24/19.

Project Update Report - 0748201

08/13/2019

Project Number:	0748201	Hospital ID:	
Location:	Water Plant	Project Status:	Hold
Project Title:	Install AMAG Security System		
Project Manager:	Hayes, Jeffery	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Benjamin Fish
Consultant	Carlson Design Team PC		
Project Request Date:	01/30/2018	Budget:	
Bid Opening:		Funding:	75,000
Construction Completion:		Estimate:	

Scope Statement:

Installation of AMAG electronic access control system at 19 building perimeter openings at the Water Plant.

Project Description:

The work will consist of 1) Connecting the building exterior doors to a new AMAG access control system 2) Creating space to mount the new access control equipment 3) Replacement of incompatible door hardware 4) Replacement of the deteriorated door and frame at entrance number 2 5) Adding additional cable pathways and cabling and 6) Installation of new electronics and programming for the AMAG system.

Schedule Needs:

Complete work in the spring of 2019.

Progress Notes:

04/02/2019

Utilities would like to keep the project on hold until department workload and manpower resources are available to execute a successful project, which will likely be June/July of 2019.

04/02/2019

Utilities would like to keep the project on hold until 2020 FY funding is determined.

Project Update Report - 0791901

11/26/2019

Project Number:	0791901	Hospital ID:	
Location:	Utilities Distribution System	Project Status:	Design
Project Title:	Replace Steam Service on North Clinton Street		
Project Manager:	Hayes, Jeffery	Customer:	FM Utilities
Construction Manager:	Armstrong, Jason	Customer Contact:	Richard Ney
Consultant	PRVN Consultants Incorporated	Net Sq. Feet:	0
Project Request Date:	12/31/2018	Budget:	
Bid Opening:		Funding:	\$42,000
Construction Completion:		Estimate:	

Scope Statement:

Design replacement of the steam line serving the President's residence to a shovel ready stage.

Project Description:

The work will consist of 1) Installation of a new 3" direct buried steam pipe from Currier Hall to the President's Residence 2) Installation of direct buried piping encased in Gilsulate insulation and 3) Routing new piping through the existing D3 vault, where a branch connection to serve the Dey House will be installed.

Schedule Needs:

Progress Notes:

11/18/2019

Final CD review meeting scheduled for 12/3/19.

11/14/2019

Project Update Report - 0795401

11/26/2019

Project Number:	0795401	Hospital ID:	
Location:	Water Plant	Project Status:	Design
Project Title:	Installation of Raw Water Flow Control Valve		
Project Manager:	Hayes, Jeffery	Customer:	FM Utilities
Construction Manager:	Cassidy, Daniel	Customer Contact:	Benjamin Fish
Consultant	Snyder & Associates Inc	Net Sq. Feet:	0
Project Request Date:	01/31/2019	Budget:	\$91,160 (Preliminary)
Bid Opening:	11/05/2019	Funding:	\$101,000
Construction Completion:		Estimate:	\$91,160

Scope Statement:

Install raw water control valve to achieve proper blend ratio and improve plant hydraulics.

Project Description:

The work will consist of 1) Removal of the existing 18" pneumatic actuated raw water throttling control valve 2) Installation of a 12" electronically controlled valve and actuator with higher accuracy and 3) Updating the existing controls to accommodate the new valve.

Schedule Needs:

Progress Notes:

11/14/2019

AAA is learning that the lead time for the specified valve actuator with the tolerances required by plant staff will not allow them to meet the required Substantial Completion date for the project. AAA is continuing discussions with the actuator manufacturers to determine if a shorter lead time is possible. AAA quote is delayed until this issue can be resolved.

10/23/2019

Project Update Report - 0802701

11/26/2019

Project Number:	0802701	Hospital ID:	
Location:	General	Project Status:	Study
Project Title:	Evaluate Oakdale Water System Chemical Injection Systems		
Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Benjamin Fish
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	03/18/2019	Budget:	\$41,737 (Preliminary)
Bid Opening:		Funding:	\$42,000
Construction Completion:	12/06/2019	Estimate:	

Scope Statement:

This will be study of the Oakdale potable water system to support the decision process to either upgrade/replace existing water treatment infrastructure or to rely on the City of Coralville for water supply.

Project Description:

This study needs to review the overall chemical treatment system for reliability and safety. In addition, specific attention should be paid to the chlorine and phosphate systems for their need, capacity and/or replacement in consideration of the water sources used -- U of Iowa well or Coralville. There have been notices concerning low phosphate levels when using the Coralville water system as a source. The study will address operating costs as they are considerably higher for the existing U of Iowa Oakdale system as compared to the Main Campus WTP.

Schedule Needs:

UIU would like the study reviewed, revised and submitted complete before 12/31/2019.

Progress Notes:

11/01/2019

Additional information has been submitted to S-H from UIU. S-H has indicated that they can have the report completed 3 weeks following receipt of all the info requested.

10/18/2019

UIU has submitted some of the requested info to S-H for their report. Additional submittals will be forthcoming to complete the info needed.

Construction Update Report - 11/26/2019

Project Number: 0806701

Hospital ID:

Project Title: Utilities Distribution System - Install Bulkhead Door at South End of IMU Tunnel

Scope Statement:

Construction Manager:

Cassidy, Daniel

Install a bulkhead door at the south end of the IMU tunnel

Customer: FM Utilities

Customer Contact: Richard Ney

Contractor: American Piping Group Inc

Contractor Contact: Jason Hunter

Consultant: Shive Hattery Incorporated

Consultant Contact: Brent Amelon

Project Budget: 350,000 (Adjust)

Current Contingency: 18,966

Funding Adjustment: 0

Original Contract Amt: 238,200

Revised Contract Amt: 246,954

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 8,754 / 3.68%

Contract Award: 09/30/2019

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 03/27/2020

**Days Remaining to Sub.
Completion:** 122

**Revised Contract Sub.
Completion:** 03/27/2020

% Contract Time Elapsed: 31.00%

**CM Estimated Sub.
Completion:** NA

% Contract Paid To Date: 0.00%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

10/25/2019

Jason Jacobsen - OSHA 30 Hour cert

09/30/2019

Adjusted budget line 411 to reflect awarded low bidder APG contract amount of \$238,200. Placed \$20k on line 412 "bid surplus", and \$15k in miscellaneous.

Project Update Report - 0808801

11/26/2019

Project Number:	0808801	Hospital ID:	
Location:	Steam Utility Enterprise Systems	Project Status:	Hold
Project Title:	Remove Boiler Building and Restore Lot 11		
Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:	Keating, Brian	Customer Contact:	Benjamin Anderson
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	04/26/2019	Budget:	\$388,294 (Final)
Bid Opening:	12/12/2019	Funding:	\$388,294
Construction Completion:	05/29/2020	Estimate:	

Scope Statement:

This project will remove the piping associated with the boiler and feed water trailer, electrical, building and fence from the NE corner of Parking Lot #11. Following removal of all equipment and infrastructure (except for electrical switch gear, transformer and 480VAC disconnect remaining in the extreme NE corner of Lot#11), the parking lot will be restored to full Parking use. UIU staff will prepare the rental units for shipping out to the rental company in an effort not funded by this project prior to this project mobilization.

Project Description:

With the completion of successful Cx and tuning of Boiler #12 (0647205) expected at the main Power Plant in September, 2019, the need for addition temporary steam capacity to campus is no longer needed. The boiler building and all main and supporting equipment can be removed from Lot #11 followed by full restoration to its former use. The concrete boiler foundations will remain to support any future emergency boiler use, but may be covered, graded and paved over. The rental units will be returned, reusable piping, wiring and boiler support equipment will be retained by the Power Plant and the building demolished. UIU staff will follow-up on any contractual obligation with MEC separately from this project.

Schedule Needs:

Utilizing the weekend Parking schedule windows of opportunity for access supporting boiler removal, demolition of the building and any remaining infrastructure should begin immediately thereafter.

Progress Notes:

10/25/2019

Parking has requested that the existing fencing stay in place and serviceable until this project's mobilization.

10/25/2019

This project status has been changed to hold -- awaiting more definitive information on Boiler #12 and the removal of the temporary boiler and feed water trailer.

Construction Update Report - 11/26/2019

Project Number: 0811701

Hospital ID:

Project Title: Utilities Distribution System - Modify Steam Piping Near Pappajohn Business Building

Scope Statement:

Construction Manager: Armstrong, Jason

This project will eliminate the steam and condensate pipe expansion joint function of the Pappajohn steam vault, thus removing the need for further maintenance entry into this very cramped area with limited access.

Customer: FM Utilities

Customer Contact: Richard Ney

Contractor: American Piping Group Inc

Contractor Contact: Jason Hunter

Consultant: Shive Hattery Incorporated

Consultant Contact: Doug Bottorff

Project Budget: 145,047 (Adjust)

Current Contingency: 36,774

Funding Adjustment: 0

Original Contract Amt: 59,650

Revised Contract Amt: 58,536

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** -1,114 / -1.87%

Contract Award: 09/25/2019

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 11/08/2019

**Days Remaining to Sub.
Completion:** 0

**Revised Contract Sub.
Completion:** 11/08/2019

% Contract Time Elapsed: 100.00%

**CM Estimated Sub.
Completion:** 11/22/2019

% Contract Paid To Date: 95.01%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

10/28/2019

Work from surface has been completed. I have asked APG to verify completion of insulation installation. Working to close out the project and review for punch list.

09/19/2019

Adjusted budget to reflect apparent low bid from today's bid opening.

Project Update Report - 0814301

11/26/2019

Project Number:	0814301	Hospital ID:	
Location:	Utilities Distribution System	Project Status:	Preliminary
Project Title:	Replace Utility Vault Doors		
Project Manager:	Hayes, Jeffery	Customer:	FM Utilities
Construction Manager:	Cassidy, Daniel	Customer Contact:	Richard Ney
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	05/17/2019	Budget:	
Bid Opening:	02/27/2020	Funding:	\$215,000
Construction Completion:	06/19/2020	Estimate:	

Scope Statement:

Replace six vault doors, three for Mechanical Distribution and three for Electrical distribution.

Project Description:

This project replaces doors at six utility vaults on the main campus. Including at three electrical vaults near CRWC, Old Capitol and Macbride Hall. Also included are the three steam vaults near IMU, IMU Footbridge and Hancher.

Schedule Needs:

Progress Notes:

11/18/2019

PSA reviewed and approved by PM and sent on to In Review.

11/12/2019

Construction Update Report - 11/26/2019

Project Number: 0819501

Hospital ID:

Project Title: Utilities Distribution System - Install Temporary East Campus Chillers

Scope Statement:

Construction Manager:

Provide supplemental/temporary central chilled water capacity to the East Campus.

Customer: FM Utilities

Customer Contact: Benjamin Anderson

Contractor:

Contractor Contact:

Consultant:

Consultant Contact:

Project Budget: 104,943 (Final)

Current Contingency: 20,000

Funding Adjustment: 0

Original Contract Amt: 0

Revised Contract Amt: 0

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 0 / 0.00%

Contract Award:

573 or other Claims: N/A

**Original Contract Sub.
Completion:**

**Days Remaining to Sub.
Completion:**

**Revised Contract Sub.
Completion:** 09/30/2019

% Contract Time Elapsed: 0.00%

**CM Estimated Sub.
Completion:** NA

% Contract Paid To Date: 0.00%

**Sub. Completion
Certificate Issued:**

Final Acceptance Taken:

Progress Notes:

11/19/2019

UIU has indicated that this project can be closed.

10/28/2019

The two temporary chiller have been removed from the Jefferson St. site.

Project Update Report - 0822201

11/26/2019

Project Number:	0822201	Hospital ID:	
Location:	Utility Enterprise System	Project Status:	Hold
Project Title:	FY20 Utility Feasibility Study Services (Main Campus)		
Project Manager:	Cannon, Adam	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Richard Ney
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	07/11/2019	Budget:	
Bid Opening:		Funding:	\$157,000
Construction Completion:		Estimate:	

Scope Statement:

This project establishes a various services agreement for utility related feasibility studies on the University of Iowa's main campus.

Project Description:

This project establishes a various services agreement for small scale utility feasibility studies on the University of Iowa main campus for one year. Utilities encounters situations that require feasibility studies of potential modifications to steam, condensate, chilled water, domestic water, sanitary sewer and electrical systems. This assistance is meant to be applied before study phases formally begin to support a successful presentation of ideas to Facilities Management administration. This project will furnish the contracting vehicle to have an engineering firm available to assist with developing concepts and strategies early in the planning process.

Work Tasks to date are as follows:

- WT-001: Washington Street Extension to Lot 3 Utility Impact
- WT-002: Add hatches to SHS tunnel, and to Theatre Bldg tunnel
- WT-003: Recommend repair scope for PP Infiltration basin
- WT-004: Review Pressure Reducing Valves in Series (Spence Labs)
- WT-005: College of Public Health steam Tunnel Repair Recommendations.

Schedule Needs:

The various services agreement will expire at the end of the FY 2020 fiscal year (June of 2020).

Progress Notes:

11/13/2019

WT-001 Draft Final Report was issued to stakeholders today. See attached.

11/13/2019

WT-002 deliverable has been received. Utility group does not require a review meeting. WT-002 is complete.

Project Update Report - 0822301

11/26/2019

Project Number:	0822301	Hospital ID:	
Location:	Utility Enterprise System	Project Status:	Hold
Project Title:	FY20 Utility Feasibility Study Services (Oakdale Campus)		
Project Manager:	Cannon, Adam	Customer:	FM Oakdale
Construction Manager:		Customer Contact:	Ann Rosenthal
Consultant	Shive Hattery Incorporated	Net Sq. Feet:	0
Project Request Date:	07/11/2019	Budget:	
Bid Opening:		Funding:	\$52,500
Construction Completion:		Estimate:	
Scope Statement:			

Project Description:

Schedule Needs:

Progress Notes:

10/25/2019

Placing project on HOLD per D&C instruction.

Project Update Report - 0822401

11/26/2019

Project Number:	0822401	Hospital ID:	
Location:	Oakdale Utilities Distribution System	Project Status:	Hold
Project Title:	FY20 Water System Modeling Services (Oakdale Campus)		

Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Benjamin Fish
Consultant	HR Green Inc	Net Sq. Feet:	0
Project Request Date:	07/11/2019	Budget:	\$21,053 (Preliminary)
Bid Opening:		Funding:	\$21,100
Construction Completion:		Estimate:	

Scope Statement:

This project establishes a various services agreement for domestic water modeling services on the University of Iowa Oakdale campus from 7/1/2019 to 6/30/2020.

Project Description:

This project establishes a various services agreement for domestic water modeling services on the University of Iowa Oakdale campus for one year. Utilities encounters situations that require hydraulic modeling of potential modifications to the domestic water system such as determining fire flows for new campus buildings. This assistance is meant to be applied before study phases formally begin to support a successful presentation of ideas to Facilities Management administration. This project will furnish the contracting vehicle to have an engineering firm available initial "due diligence" of planning concepts and strategies early in the process.

Schedule Needs:

This project will continue through this Fiscal Year.

Progress Notes:

10/14/2019

PSA approved and filed. No new work tasks (WT) so project placed in hold status.

09/04/2019

Requested the DP submit a proposal letter into BUI for this year's water modeling services on the Oakdale Campus.

Project Update Report - 0822501

11/26/2019

Project Number:	0822501	Hospital ID:	
Location:	Utilities Distribution System	Project Status:	Hold
Project Title:	FY20 Water System Modeling Services (Main Campus)		
Project Manager:	Scherrer, Edward	Customer:	FM Utilities
Construction Manager:		Customer Contact:	Benjamin Fish
Consultant	HR Green Inc	Net Sq. Feet:	0
Project Request Date:	07/11/2019	Budget:	\$84,211 (Preliminary)
Bid Opening:		Funding:	\$84,300
Construction Completion:		Estimate:	

Scope Statement:

This project establishes a various services agreement for domestic water modeling services on the University of Iowa Main campus from 7/1/2019 to 6/30/2020.

Project Description:

This project establishes a various services agreement for domestic water modeling services on the University of Iowa Main campus for one year. Utilities encounters situations that require hydraulic modeling of potential modifications to the domestic water system such as determining fire flows for new campus buildings. This assistance is meant to be applied before study phases formally begin to support a successful presentation of ideas to Facilities Management administration. This project will furnish the contracting vehicle to have an engineering firm available initial "due diligence" of planning concepts and strategies early in the process.

Schedule Needs:

This project will continue through this Fiscal Year.

Progress Notes:

10/14/2019

PSA approved and filed. No new work tasks (WT) so project placed in hold status.

09/04/2019

Requested HR Green submit a proposal letter for this year's standing order water system modeling services on Main Campus.

Construction Update Report - 11/26/2019

Project Number: 0753301

Hospital ID:

Project Title: Chilled Water Plant 2 (West) - Upgrade Condenser Water System Flow Meters

Scope Statement:

Construction Manager: Dykstra, Dean

Replace condenser water system flow meters on four existing Cooling Towers, revise the standard operating procedures (SOPs) for the condenser water system, and provide high-level training on the condenser water system.

Customer: FM Utilities

Customer Contact: Benjamin Fish

Contractor: American Piping Group Inc

Contractor Contact: Jason Hunter

Consultant: PRVN Consultants Incorporated

Consultant Contact: Jim Nonnenmann

Project Budget: 300,000 (Adjust)

Current Contingency: 21,119

Funding Adjustment: 0

Original Contract Amt: 169,675

Revised Contract Amt: 171,024

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 1,349 / 0.80%

Contract Award: 11/26/2018

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 04/19/2019

**Days Remaining to Sub.
Completion:** 0

**Revised Contract Sub.
Completion:** 04/19/2019

% Contract Time Elapsed: 100.00%

**CM Estimated Sub.
Completion:** 11/01/2019

% Contract Paid To Date: 83.72%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

11/20/2019

APG to mobilize 11.25 and start with tower 8.

11/01/2019

APG to mobilize 11.18

Construction Update Report - 08/13/2019

Project Number: 0756901

Hospital ID:

Project Title: Field House - Replace Hatches for Tunnel

Scope Statement:

Construction Manager: Armstrong, Jason

This project includes the removal and replacement of, or modification to, 6 existing hatches in the Field House Tunnel. Work will be completed in two phases to maintain Hospital building egress and access to the Hospital playground.

Customer: FM Utilities

Customer Contact: Richard Ney

Contractor: J Harding Inc

Contractor Contact: Jon Harding

Consultant: Shive Hattery Incorporated

Consultant Contact: Mikel Curry

Project Budget: 160,700 (Adjust)

Current Contingency: 11,049

Funding Adjustment: 0

Original Contract Amt: 72,200

Revised Contract Amt: 72,591

Pending Change Orders: 0

Approved CCO & % of Orig. Contract: 391 / 0.54%

Contract Award: 03/12/2019

573 or other Claims: N/A

Original Contract Sub. Completion: 05/15/2019

Days Remaining to Sub. Completion: 0

Revised Contract Sub. Completion: 05/17/2019

% Contract Time Elapsed: 100.00%

CM Estimated Sub. Completion: 08/09/2019

% Contract Paid To Date: 50.71%

Sub. Completion Certificate Issued: NA

Final Acceptance Taken: NA

Progress Notes:

07/16/2019

Structure to arrive Friday and install to begin Monday. Other work being finalized this week in the tunnel. Working to coordinate for punch list review next week. DP has been providing ongoing review of work.

07/01/2019

Work above ground is complete except for delayed manhole structure and turf restoration. Structure could arrive within the next week. Harding will complete tunnel items in the interim.

Construction Update Report - 11/26/2019

Project Number: 0647207

Hospital ID:

Project Title: Power Plant - Boiler 12 Controls

Scope Statement:

Construction Manager: Keating, Brian

This project will procure the control hardware/integration for Boiler 12 to be installed and commissioned under project 0647201. The preferred supplier has been revised from ABB to Allen Bradley/Rockwell.

Customer: Facilities Management

Customer Contact: Glen Mowery

Contractor:

Contractor Contact:

Consultant:

Consultant Contact:

Project Budget: 393,971 (Final)

Current Contingency: 24,084

Funding Adjustment: 0

Original Contract Amt: 0

Revised Contract Amt: 0

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 0 / 0.00%

Contract Award:

573 or other Claims: N/A

**Original Contract Sub.
Completion:**

**Days Remaining to Sub.
Completion:**

**Revised Contract Sub.
Completion:** 10/11/2018

% Contract Time Elapsed: 0.00%

**CM Estimated Sub.
Completion:** 05/31/2019

% Contract Paid To Date: 0.00%

**Sub. Completion
Certificate Issued:**

Final Acceptance Taken:

Progress Notes:

11/19/2019

The boiler is coming back on line today. FPS will be back on site first of December to complete their contractor work. approximately three days work for tuning.

10/28/2019

controls contractor was on site as boiler was brought back on line. Currently boiler is operating at 90% under control. final checkout will occur mid November

Construction Update Report - 11/26/2019

Project Number: 0647205

Hospital ID:

Project Title: Power Plant - Procure and Install Boiler

Scope Statement:

Construction Manager: Keating, Brian

This project will supply and field erect new Boiler #12 inside the Main Power Plant.

Customer: Facilities Management

Customer Contact: Glen Mowery

Contractor: Locke Equipment Sales Company

Contractor Contact: Kellie Davis

Consultant:

Consultant Contact:

Project Budget: 5,211,571 (Final)

Current Contingency: 320,428

Funding Adjustment: 0

Original Contract Amt: 4,551,123

Revised Contract Amt: 4,657,200

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 106,077 / 2.33%

Contract Award: 04/13/2017

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 12/24/2018

**Days Remaining to Sub.
Completion:** 0

**Revised Contract Sub.
Completion:** 12/24/2018

% Contract Time Elapsed: 100.00%

**CM Estimated Sub.
Completion:** 05/01/2019

% Contract Paid To Date: 90.23%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

11/19/2019

The boiler is coming back on line today after desuperheater tube removal work. Several instruments were replaced during the shutdown. Lagging on the south side of the boiler is under inspection to determine hot spots. Boiler will be brought back on line and run up to 100%. Locke AMI will collect the data and supply that data to FPS for further tuning.

After the boiler has successfully passed the start up phase, it will move into the 30 day endurance period

10/28/2019

Boiler 12 was started back up and put through the operational testing. Two transmitters failed during testing and are being replaced. They have a 3 week lead time. Boiler is running on auto at 90%. Transmitters will be replaced mid November. Once tested the boiler project will move into the 30 day endurance period run.

Construction Update Report - 11/26/2019

Project Number: 0654201

Hospital ID:

Project Title: Pharmacy Building - Replace WFI Still

Scope Statement:

Construction Manager:

Scranton, Kirsta

Replace existing WFI still in south tower.

Customer: FM Utilities

Customer Contact: David McClain

Contractor: Miron Construction Company Inc

Contractor Contact:

Consultant:

Consultant Contact:

Project Budget: 360,526 (Revised)

Current Contingency: 1

Funding Adjustment: 0

Original Contract Amt: 4,271,729

Revised Contract Amt: 4,271,729

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 0 / 0.00%

Contract Award:

573 or other Claims: N/A

**Original Contract Sub.
Completion:**

**Days Remaining to Sub.
Completion:**

**Revised Contract Sub.
Completion:** 07/28/2019

% Contract Time Elapsed: 0.00%

**CM Estimated Sub.
Completion:** 03/01/2019

% Contract Paid To Date: 0.00%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

06/27/2019

Still should be running on 7/12/19.

01/08/2019

The project budget was revised on 1/7/'9 per UIU request to add funding for FAT time and travel for UIU staff related to the WFI still FAT. UIU provided a cost of up to \$10K. Kleppe was emailed requesting the revised budget be routed for approval.

Construction Update Report - 11/26/2019

Project Number: 0754701

Hospital ID:

Project Title: Oakdale Shops Building A - Replace Steam and Condensate at Shops A and D

Scope Statement:

Construction Manager: Humphreys, Jake

This project includes the design of new steam and condensate lines at the Oakdale Campus. Lines will be located between Oakdale buildings A and D (Oakdale shops) and the Oakdale Chilled Water Plant. A cost study will be simultaneously performed with the design. This study will examine different possible condensate material types as well as manufacturer possibilities.

Customer: FM Utilities

Customer Contact: Richard Ney

Contractor: Carter and Associates Inc

Contractor Contact: Chris Carter

Consultant: Axiom Consultants LLC

Consultant Contact: Rob Decker

Project Budget: 269,600 (Adjust)

Current Contingency: 17,593

Funding Adjustment: 0

Original Contract Amt: 189,000

Revised Contract Amt: 191,107

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 2,107 / 1.11%

Contract Award: 03/22/2019

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 06/24/2019

**Days Remaining to Sub.
Completion:** 0

**Revised Contract Sub.
Completion:** 06/24/2019

% Contract Time Elapsed: 100.00%

**CM Estimated Sub.
Completion:** NA

% Contract Paid To Date: 100.00%

**Sub. Completion
Certificate Issued:** 07/15/2019

Final Acceptance Taken: 10/08/2019

Progress Notes:

10/31/2019

Received Accounting Close Checklist from Pat Onken.

10/03/2019

Asbuilts received today, however, spec book was not included. Contractor notified to turn in as-built project manual for as-builts to be processed.

Construction Update Report - 11/26/2019

Project Number: 0831301

Hospital ID:

Project Title: Utilities Distribution System - Replace Section of Sanitary Sewer at Oakdale Campus

Scope Statement:

Construction Manager: Kearns, Michael

This project replaces the existing 8" sanitary sewer line, currently undersized, with a 12" sanitary line to accommodate future flows of CSS.

Customer: FM Utilities

Customer Contact: Richard Ney

Contractor: Carter and Associates Inc

Contractor Contact: Jean Holzhammer

Consultant: Shive Hattery Incorporated

Consultant Contact: Brent Amelon

Project Budget: 120,000 (Adjust)

Current Contingency: 9,196

Funding Adjustment: 0

Original Contract Amt: 53,000

Revised Contract Amt: 53,000

Pending Change Orders: 0

**Approved CCO & % of
Orig. Contract:** 0 / 0.00%

Contract Award: 11/01/2019

573 or other Claims: N/A

**Original Contract Sub.
Completion:** 02/14/2020

**Days Remaining to Sub.
Completion:** 80

**Revised Contract Sub.
Completion:** 02/14/2020

% Contract Time Elapsed: 23.00%

**CM Estimated Sub.
Completion:** NA

% Contract Paid To Date: 0.00%

**Sub. Completion
Certificate Issued:** NA

Final Acceptance Taken: NA

Progress Notes:

10/18/2019

Pre-bid held 10/15. Carter & Associates present. No addendum. Bid date 10/20.

09/16/2019

9/12/19: Meeting minutes for 9/10 kick-off meeting.

SCHEDULE 12
COMPUTER SYSTEMS AND SOFTWARE
[SEE ATTACHED]

Item	Title	Description	Lic Count
1	Global Care	GE Licensing and Support	88
2	Software Toolbox	OPC Licensing and Support	84
3	WP Powerware UPS	Maintenance and Support	n/a
4	Veritas Backup	GE Licensing and Support	54
5	Fluke OTDR	Maintenance and Support	1
6	SQL (Campus IT)	Licensing	2
7	Accurate Calibration	Electric Meter Stand Calibration	1
8	Accurate Calibration	Electric Meter Stand Support	1
9	Solarwinds	Licensing and Support	2
10	Exele Topview	Licensing and Support	2
11	Virtual Graffiti	Licensing and Support	2
12	OSI PI System	Utility and Building Historian - ECC; PI AF, PI Vision, PI system Explorer	
13	Teledyne	CEMS Licensing and Support	
15	ABB Bailey	Power Plant HMI - Licensing and Support	
16	Control Logics Support	Allen Bradely licensing and support	
17	Techconnect	Rsview troubleshooting software	
18	Allen-Bradley PanelBuilder32	full developer version	1
20	Emerson Process Management - AMS Device Manager		3
21	Fisher Controls ValveLink		1
22	General Electric Proficy ME	full developer version, machine edition	1
23	Rockwell Automation DriveExplorer		2
24	Rockwell Automation RSLogix 5	full developer version	2
25	Rockwell Automation RSLogix 500	full developer version	2
26	Rockwell Automation RSLogix/Studio 5000 Logix Designer	full developer version	3
27	Rockwell Automation FactoryTalk View Studio ME	full developer version, machine edition	1
28	Rockwell Automation FactoryTalk View Studio SE	full developer version, site edition	2
29	Rockwell Automation FactoryTalk View Studio SE	client, site edition	5

SCHEDULE 13

FORM OF MEMORANDUM OF LEASE

Document Prepared By and Returned to: Brian L. Sedlak, Esq., Jones Day, 77 West Wacker Drive, Suite 3500, Chicago, IL 60601-1692

MEMORANDUM OF LEASE AGREEMENT

THIS MEMORANDUM OF LEASE AGREEMENT (this “**Memorandum**”) is made and entered into as of this ____ day of _____, 20__, by and among the **Board of Regents, State of Iowa, for the use and benefit of the University of Iowa** (the “**BOR**”) and the **University of Iowa** (together with the BOR, “**Lessor**”), as lessor, with an address of 105 Jessup Hall, Iowa City, IA 52242, Attention: Business Manager, and **University of Iowa Energy Collaborative LLC**, a Delaware limited liability company (“**Lessee**”), as lessee, with an address of _____.

BACKGROUND

A. Lessor and Lessee entered into that certain Long-Term Lease and Concession Agreement for the University of Iowa Utility System, executed as of _____, 20__ (as may be amended, restated, modified or otherwise supplemented from time to time in accordance with the terms thereof, the “**Lease**”), pursuant to which, among other things, and subject to the terms and conditions set forth therein, Lessor (i) leased to Lessee the Utility System Land and Utility Facilities (each as defined below) (collectively, the “**Premises**”), (ii) granted Lessee a license to access certain appurtenant premises in connection therewith, and (iii) granted Lessee the right to use, possess, control, operate, manage, modify, maintain and rehabilitate the Premises and certain other assets in connection therewith;

B. Lessor and Lessee desire to provide record evidence of Lessee’s lease of the Premises pursuant to the terms of the Lease.

CONFIRMATION AND ACKNOWLEDGEMENT

NOW, THEREFORE, Lessor and Lessee hereby confirm the terms of the Lease and acknowledge the following:

1. Lessor and Lessee. The names and addresses of Lessor and Lessee under the Lease are as set forth in the Preamble of this Memorandum.

2. Premises. The real property leased by Lessee pursuant to the Lease consists of:

- a. the real property described in Schedule 1 attached hereto (the “**Utility System Land**”) and all improvements and equipment located thereon;
- b. the “**Utility Facilities**”, consisting of those improvements and equipment constituting part of or located on the University Campus that are directly and exclusively involved in the generation, distribution and return of the Utilities and the operation and maintenance of the Utility System and that are not beyond the line of demarcation for each Utility as set forth in the Performance Standards, including the distribution pipes carrying the Utilities including (1) the distribution pipes carrying the Utilities (including pipes conveying sanitary sewage and storm water), (2) the trench-boxes and vaults exclusively used in connection with the Utilities, (3) the Main Campus Power Plant, (4) Substation L, (5) Substation U, (6) the Oakdale Utility Power Plant, (7) the Oakdale 69kV Substation, (8) the Oakdale Power Plant Substation (9) the Main Campus Water Treatment Plant, (10) the Oakdale Water Tower, (11) the Oakdale Well House, (12) the North Campus Chilled Water Plant, (13) the Newton Road Chilled Water Plant, (14) Chilled Water Plant 1, (15) Chilled Water Plant 2, (16) the Oakdale Chilled Water Plant, (17) the Oakdale Hygienic Lab Chiller Space, (18) the Hospital Plant, (19) the Hospital Water Tower, (20) West Campus Steam Plant, (21) the Independence Road Annex Space (until such time as such the Independence Road Annex Lease is terminated or expires), (22) the Sand Road Space, (23) the Madison Street Services Space, (24) the Madison Street Water Storage Tank and (25) electric distribution wires in each case to the extent such improvements and equipment are located on the real property described in Schedule 2;

provided that the definition of “Utility Facilities” does not include (i) any improvements or equipment that are beyond the line of demarcation for each Utility as set forth in the Performance Standards, except for those areas (1) expressly set forth in the Performance Standards as being within said line of demarcation or (2) which the University directs to be part of the Utility System as part of a University Directive in accordance with the definition thereof or (ii) any cameras or other public safety equipment installed, maintained or used by the University’s Department of Public Safety or any successor department.

3. Term. The term of the Lease commences on the date of this Memorandum and expires on the fiftieth (50th) anniversary thereof (or such later date as may be required to effect a Delay Event Remedy under the Lease but subject to earlier termination as provided in the Lease).

4. No Options. Lessee has no option or right to renew or extend the term of the Lease, except in the case of certain Delay Events.

5. Inconsistent Provisions. The provisions of this Memorandum constitute only a general description of the content of the Lease with respect to matters set forth herein. Accordingly, third parties are advised that the provisions of the Lease itself shall be controlling with respect to all matters set forth herein. In the event of any discrepancy between the provisions of the Lease and this Memorandum, the provisions of the Lease shall take precedence and prevail over the provisions of this Memorandum. Any capitalized terms used herein but not defined herein shall have the meanings ascribed to them in the Lease.

6. Termination of Memorandum of Lease. This Memorandum and all rights of Lessee in the Premises shall terminate upon the expiration or earlier termination of the Lease, which may be evidenced by a written notice of such expiration or termination signed by Lessor upon or at any time after expiration or termination and recorded or filed in the appropriate land records of Johnson County, Iowa. Upon Lessor's request, Lessee shall join in the execution of the notice of expiration or termination, but the same shall not be required in order for such notice to be valid, enforceable or recordable.

7. Counterparts. This Memorandum may be executed in any number of counterparts which, taken together, shall constitute one and the same agreement.

8. Successors and Assigns. The Lease and the covenants and conditions herein contained shall inure to the benefit of the Lessor and Lessee and their respective permitted successors and assigns and is binding upon the Lessor and Lessee and their respective successors and assigns.

9. Incorporation. The Lease and all of the terms and conditions thereof and schedules thereto are incorporated herein and made a part hereof by reference as though fully rewritten herein.

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IN WITNESS WHEREOF, the parties hereto have caused this Memorandum to be executed as of the day and year first above written.

LESSOR:

BOARD OF REGENTS, STATE OF IOWA

By: _____

Printed Name:

Title:

STATE OF IOWA)

) ss:

COUNTY OF JOHNSON)

BEFORE ME, a Notary Public, in and for said county and state, personally appeared _____, the _____ of the Board of Regents, State of Iowa, who acknowledged before me that she/he did sign the foregoing instrument on behalf of the University of Iowa.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 20__.

UNIVERSITY OF IOWA

By: _____

Printed Name:

Title:

STATE OF IOWA)

) ss:

COUNTY OF JOHNSON)

BEFORE ME, a Notary Public, in and for said county and state, personally appeared _____, the _____ of the University of Iowa, who acknowledged before me that she/he did sign the foregoing instrument on behalf of the University of Iowa.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 20__.

NOTARY PUBLIC

LESSEE:

UNIVERSITY OF IOWA ENERGY COLLABORATIVE LLC

By: _____

Print Name: _____

Title:

STATE OF _____)

) ss:

COUNTY OF _____)

BEFORE ME, a Notary Public, in and for said county and state, personally appeared _____, the _____ of University of Iowa Energy Collaborative LLC, a Delaware limited liability company, who acknowledged before me that she/he did sign the foregoing instrument on behalf of _____ for the purposes set forth therein.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 20__.

NOTARY PUBLIC

Schedule 1

Legal descriptions of the property that covers the following pieces of land, but only to the extent shown on maps attached to this Schedule. Please note that not all areas depicted on Schedule 3 of the Lease are Utility System Land.

Main Campus Power Plant (Part 8 of Schedule 3)
Substation L (Part 20 of Schedule 3)
Substation U (Part 21 of Schedule 3)
Oakdale Utility Power Plant (Part 16 of Schedule 3)
Oakdale 69kV Substation (Part 12 of Schedule 3)
Oakdale Power Plant Substation (Part 15 of Schedule 3)
Main Campus Water Treatment Plant (Part 9 of Schedule 3)
Oakdale Water Tower (Part 17 of Schedule 3)
Oakdale Well House (Part 18 of Schedule 3)
Chilled Water Plant 2 (Part 2 of Schedule 3)
Oakdale Chilled Water Plant (Part 13 of Schedule 3)
Hospital Water Tower (Part 4 of Schedule 3)
Madison Street Water Storage Tank (Part 7 of Schedule 3)
West Campus Steam Plant (Part 22 of Schedule 3)

Schedule 2

UNIVERSITY CAMPUS

Legal descriptions of the entire University Campus

SCHEDULE 14

UNIVERSITY WITHHELD PAYMENTS

None.

SCHEDULE 15

KEY PERFORMANCE INDICATORS

The Concessionaire shall calculate whether any KPI Compensation for each Key Performance Indicator has been generated during a Fiscal Year in accordance with this Schedule 15. For the avoidance of doubt, each KPI Calculation corresponds to one Key Performance Indicator.

1. Definitions

- (a) Unless otherwise specified or the context otherwise requires, for the purposes of this Schedule 15, the following terms have the following meanings:
 - (i) “Availability KPIs” means the Critical Availability KPIs and the Non-Critical Availability KPIs, and “Availability KPI” means any one of the foregoing.
 - (ii) “Chilled Water Portion of the Utility System” means that portion of the Utility System exclusively used in the production and distribution of chilled water to the University Campus to the line of demarcation for the Chilled Water System as described in the Performance Standards.
 - (iii) “Compressed Air Portion of the Utility System” means that portion of the Utility System exclusively used in the production and distribution of compressed air to the University Campus to the line of demarcation for the Compressed Air System as described in the Performance Standards.
 - (iv) “Critical Availability KPIs” means those Key Performance Indicators which are measured by the following KPI Calculations: Electric Hours Critical KPI Calculation, Electric Events Critical KPI Calculation, Steam Hours Critical KPI Calculation, Steam Events Critical KPI Calculation, Chilled Water Hours Critical KPI Calculation, Chilled Water Events Critical KPI Calculation, Domestic Water Hours Critical KPI Calculation, Domestic Water Event Critical KPI Calculation, Sanitary Sewer Hours Critical KPI Calculation, Sanitary Sewer Events Critical KPI Calculation, Storm Water Hours Critical KPI Calculation and Storm Water Events Critical KPI Calculation.
 - (v) “Critical Facility” means any facility or building on the University Campus receiving any Utility from the Utility System that (i) houses or serves patients of the University’s hospital or medical facilities or (ii) houses research that is critically dependent on the provision of Utility Services. The complete list of Critical Facilities as of the Effective Date is included in Appendix 1 attached hereto. The University may, by 90 Days’ advance notice to the Concessionaire, update the list of Critical Facilities to reflect changes to the use of any facility or building on the University Campus or the addition or removal of a facility or building on the University Campus, and such notice shall be deemed an amendment to

Appendix 1 of this Schedule 15. In the event that the University identifies a Facility as a Critical Facility that was previously a Non-Critical Facility, such Facility shall be deemed removed from the list of Non-Critical Facilities.

- (vi) “Domestic Water Portion of the Utility System” means that portion of the Utility System exclusively used in the production and distribution of potable water (and fire water) to the University Campus to the line of demarcation for the Domestic Water System as described in the Performance Standards.
- (vii) “Electric Portion of the Utility System” means that portion of the Utility System exclusively used in the production and distribution of electricity to the University Campus to the line of demarcation for the Electric System as described in the Performance Standards.
- (viii) “Facility” means a Critical Facility or a Non-Critical Facility.
- (ix) “KPI Calculation Appendix” means each of the appendices attached to this Schedule 15, except for Appendix 1 and Appendix 2.
- (x) “KPI Calculations” means, collectively, all Availability KPIs and all Operational KPIs, and “KPI Calculation” shall mean any one of the foregoing.
- (xi) “KPI Event” occurs when a KPI Calculation does not meet the Target for the applicable Key Performance Indicator in a Fiscal Year.
- (xii) “KPI Event Year” means a Fiscal Year in which a KPI Event occurs.
- (xiii) “KPI Measurement Window” means, commencing with the then-current Fiscal Year, the number of consecutive Fiscal Years preceding that Fiscal Year including the current Fiscal Year (but in no event more than the number of “Consecutive Event Years” shown on the applicable KPI Calculation Appendix) in which such KPI Event occurred.
- (xiv) “Non-Critical Availability KPIs” means those Key Performance Indicators which are measured by the following KPI Calculations: Electric Hours Non-Critical KPI Calculation, Electric Events Non-Critical KPI Calculation, Steam Hours Non-Critical KPI Calculation, Steam Events Non-Critical KPI Calculation, Chilled Water Hours Non-Critical KPI Calculation, Chilled Water Events Non-Critical KPI Calculation, Domestic Water Hours Non-Critical KPI Calculation, Domestic Water Event Non-Critical KPI Calculation, Sanitary Sewer Hours Non-Critical KPI Calculation, Sanitary Sewer Events Non-Critical KPI Calculation, Storm Water Hours Non-Critical KPI Calculation and Storm Water Events Non-Critical KPI Calculation.

- (xv) “Non-Critical Facility” means any facility or building on the University Campus receiving any Utility from the Utility System that is not a Critical Facility. The list of Non-Critical Facilities as of the Effective Date is included in Appendix 1 attached hereto. The University may, by written notice to the Concessionaire, update the list of Non-Critical Facilities to reflect changes to the use of any facility or building on the University Campus or the addition or removal of a facility or building on the University Campus, and such notice shall be deemed an amendment to Appendix 1 of this Schedule 15.
 - (xvi) “Operational KPIs” mean those Key Performance Indicators which are measured by the following KPI Calculations: Safety KPI, Environmental Compliance KPI and the Public Notice of Water Quality KPI.
 - (xvii) “Outage Hours” means the aggregate number of hours for which an Unplanned Outage affects a Facility such that there is an Unplanned Outage with respect to a Utility for such Facility, which shall be rounded to the nearest 15-minute interval, except any duration that is less than 15 minutes shall be rounded up to 15 minutes.
 - (xviii) “Portion of the Utility System” means the Chilled Water Portion of the Utility System, the Domestic Water Portion of the Utility System, the Electric Portion of the Utility System, the Sanitary Sewer Portion of the Utility System, the Steam Portion of the Utility System, or the Storm Water Portion of the Utility System, as applicable
 - (xix) “Sanitary Sewer Portion of the Utility System” means that portion of the Utility System exclusively used for sanitary sewer purposes serving the University Campus up to the line of demarcation for the Sanitary Sewer System as described in the Performance Standards.
 - (xx) “Steam Portion of the Utility System” means that portion of the Utility System exclusively used in the production and distribution of steam and heated hot water to the University Campus to the line of demarcation for the Steam and Condensate System as described in the Performance Standards.
 - (xxi) “Storm Water Portion of the Utility System” means that portion of the Utility System exclusively used for storm water purposes serving the University Campus up to the line of demarcation for the Storm Water System as described in the Performance Standards.
 - (xxii) “Target” for any Key Performance Indicator means the amount or percentage, as applicable, for that Key Performance Indicator as identified on the relevant KPI Calculation Appendix.
- (b) All capitalized words, not otherwise defined herein, shall have the meaning set forth in this Agreement (including all other schedules thereto), and if, pursuant to

the terms and conditions of the Agreement, the definition of such capitalized words is modified, such modification shall be deemed to apply in this Schedule 15.

- (c) References to a “current Fiscal Year” herein shall mean the Fiscal Year for which the KPI Calculation is being determined.

2. *Rules of General Applicability*

- (a) If, in any instance, the KPI Compensation is shown by the applicable KPI Calculation Appendix to be \$10,000,000, it (and any cell in that KPI Calculation Appendix to the right or below such cell) shall be deemed to read, in all such instances, “the greater of (i) \$10,000,000 and (ii) 10% of the Utility Fee for that particular Fiscal Year.”
- (b) If, in any instance, the KPI Compensation is shown by the applicable KPI Calculation Appendix to be \$5,000,000, it (and any cell in that KPI Calculation Appendix to the right or below such cell) shall be deemed to read, in all such instances, “the greater of (i) \$5,000,000 and (ii) 5% of the Utility Fee for that particular Fiscal Year.”
- (c) If there is an Unplanned Outage that affects both Critical Facilities and Non-Critical Facilities, such Unplanned Outage shall only be considered an outage event for Critical Facilities and not for Non-Critical Facilities in determining the number of Unplanned Outages in a particular period. For the avoidance of doubt, the number of hours resulting from such Unplanned Outage shall continue to be included in the applicable Availability KPI determination for both Critical Facilities and Non-Critical Facilities. For exemplary purposes only, if there is an Unplanned Outage for the Chilled Water Portion of the Utility System that affects 2 Critical Facilities for 1 hour each and 5 Non-Critical Facilities for 2 hours each, then, for purposes of this Schedule 15, there shall be deemed to have occurred: 1 Unplanned Outage for the Chilled Water Events Critical KPI Calculation; 0 Unplanned Outages for the Chilled Water Events Non-Critical KPI Calculation; 2 Outage Hours for the Chilled Water Hours Critical KPI Calculation; 10 Outage Hours for the Chilled Water Hours Non-Critical KPI Calculation.

3. *KPI Calculation for each Critical Availability KPI*

- (a) *KPI Calculation for Electricity – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 3*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for electricity is determined on an annual basis in each Fiscal Year by totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Electric Portion of the Utility System (the “Electric Hours Critical KPI Calculation”), such that, for exemplary purposes only, if, during a Fiscal Year, one Critical Facility had 4 Outage Hours related to the Electric Portion of the Utility System and another Critical Facility had 2

Outage Hours related to the Electric Portion of the Utility System, the Electric Hours Critical KPI Calculation for that Fiscal Year would be 6 Outage Hours.

- (b) *KPI Calculation for Electricity – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 4*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for electricity is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Electric Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Electric Events Critical KPI Calculation”).

- (c) *KPI Calculation for Steam – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 5*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for steam and heated hot water is determined on an annual basis in each Fiscal Year by totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Steam Portion of the Utility System (the “Steam Hours Critical KPI Calculation”), calculated in the same manner as the Electric Hours Critical KPI Calculation.

- (d) *KPI Calculation for Steam – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 6*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for steam and heated hot water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Steam Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Steam Events Critical KPI Calculation”).

- (e) *KPI Calculation for Chilled Water – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 7*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for chilled water is determined on an annual basis in each Fiscal Year by totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Chilled Water Portion of the Utility System (the “Chilled Water Hours Critical KPI Calculation”), calculated in the same manner as the Electric Hours Critical KPI Calculation.

- (f) *KPI Calculation for Chilled Water – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 8*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for chilled water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Chilled

Water Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Chilled Water Events Critical KPI Calculation”).

- (g) *KPI Calculation for Domestic Water – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 9*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for domestic water (including potable and fire water) is determined on an annual basis in each Fiscal Year by totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Domestic Water Portion of the Utility System (the “Domestic Water Hours Critical KPI Calculation”), calculated in the same manner as the Electric Hours Critical KPI Calculation.

- (h) *KPI Calculation for Domestic Water – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 10*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for domestic water (including potable and fire water) is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Domestic Water Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Domestic Water Events Critical KPI Calculation”).

- (i) *KPI Calculation for Sanitary Sewer – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 11*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for sanitary sewer is determined on an annual basis in each Fiscal Year by totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Sanitary Sewer Portion of the Utility System (the “Sanitary Sewer Hours Critical KPI Calculation”), calculated in the same manner as the Electric Hours Critical KPI Calculation.

- (j) *KPI Calculation for Sanitary Sewer – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 12*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for sanitary sewer is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Sanitary Sewer Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Sanitary Sewer Events Critical KPI Calculation”).

- (k) *KPI Calculation for Storm Water – Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 13*

The Key Performance Indicator for the hours of Critical Facility Unplanned Outages for storm water is determined on an annual basis in each Fiscal Year by

totaling the sum, for all Critical Facilities, of the Outage Hours for each Critical Facility in that Fiscal Year related to the Storm Water Portion of the Utility System (the “Storm Water Hours Critical KPI Calculation”), calculated in the same manner as the Electric Hours Critical KPI Calculation.

- (l) *KPI Calculation for Storm Water – Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 14*

The Key Performance Indicator for the number of events of Critical Facility Unplanned Outages for storm water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Storm Water Portion of the Utility System or any portion thereof that affects a Critical Facility (the “Storm Water Events Critical KPI Calculation”).

4. *KPI Calculation for each Non-Critical Availability KPI*

- (a) *KPI Calculation for Electricity – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 3*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for electricity is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Electric Portion of the Utility System (the “Electric Hours Non-Critical KPI Calculation”), such that, for exemplary purposes only, if, during a Fiscal Year, one Non-Critical Facility had 4 Outage Hours related to the Electric Portion of the Utility System and another Non-Critical Facility had 2 Outage Hours related to the Electric Portion of the Utility System, the Electric Hours Non-Critical KPI Calculation for that Fiscal Year would be 6 Outage Hours. Notwithstanding the foregoing, for purposes of calculating the Electric Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (b) *KPI Calculation for Electricity – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 4*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for electricity is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Electric Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Electric Events Non-Critical KPI Calculation”).

- (c) *KPI Calculation for Steam – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 5*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for steam and heated hot water is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Steam Portion of the Utility System (the “Steam Hours Non-Critical KPI Calculation”), calculated in the same manner as the Electric Hours Non-Critical KPI Calculation. Notwithstanding the foregoing, for purposes of calculating the Steam Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (d) *KPI Calculation for Steam – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 6*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for steam and heated hot water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Steam Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Steam Events Non-Critical KPI Calculation”).

- (e) *KPI Calculation for Chilled Water – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 7*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for chilled water is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Chilled Water Portion of the Utility System (the “Chilled Water Hours Non-Critical KPI Calculation”), calculated in the same manner as the Electric Hours Non-Critical KPI Calculation. Notwithstanding the foregoing, for purposes of calculating the Chilled Water Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (f) *KPI Calculation for Chilled Water – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 8*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for chilled water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Chilled Water Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Chilled Water Events Non-Critical KPI Calculation”).

- (g) *KPI Calculation for Domestic Water – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 9*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for domestic water (including potable and fire water) is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Domestic Water Portion of the Utility System (the “Domestic Water Hours Non-Critical KPI Calculation”), calculated in the same manner as the Electric Hours Non-Critical KPI Calculation. Notwithstanding the foregoing, for purposes of calculating the Domestic Water Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (h) *KPI Calculation for Domestic Water – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 10*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for domestic water (including potable and fire water) is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Domestic Water Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Domestic Water Events Non-Critical KPI Calculation”).

- (i) *KPI Calculation for Sanitary Sewer – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 11*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for sanitary sewer is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Sanitary Sewer Portion of the Utility System (the “Sanitary Sewer Hours Non-Critical KPI Calculation”), calculated in the same manner as the Electric Hours Non-Critical KPI Calculation. Notwithstanding the foregoing, for purposes of calculating the Sanitary Sewer Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (j) *KPI Calculation for Sanitary Sewer – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 12*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for sanitary sewer is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Sanitary Sewer Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Sanitary Sewer Events Non-Critical KPI Calculation”).

- (k) *KPI Calculation for Storm Water – Non-Critical Facility Unplanned Outage (Hours): KPI Calculation Appendix 13*

The Key Performance Indicator for the hours of Non-Critical Facility Unplanned Outages for storm water is determined on an annual basis in each Fiscal Year by totaling the sum, for all Non-Critical Facilities, of the Outage Hours for each Non-Critical Facility in that Fiscal Year related to the Storm Water Portion of the Utility System (the “Storm Water Hours Non-Critical KPI Calculation”), calculated in the same manner as the Electric Hours Non-Critical KPI Calculation. Notwithstanding the foregoing, for purposes of calculating the Storm Water Hours Non-Critical KPI Calculation, the number of Facilities used to calculate Outage Hours for each Unplanned Outage shall be the lesser of (i) the number of Facilities affected by such Unplanned Outage Hours and (ii) 10, which 10 shall be the Facilities affected by such Unplanned Outage for the longest period of time.

- (l) *KPI Calculation for Storm Water – Non-Critical Facility Unplanned Outage (Events): KPI Calculation Appendix 14*

The Key Performance Indicator for the number of events of Non-Critical Facility Unplanned Outages for storm water is determined on an annual basis in each Fiscal Year to equal the number of unique Unplanned Outages for the Storm Water Portion of the Utility System or any portion thereof that affects a Non-Critical Facility (the “Storm Water Events Non-Critical KPI Calculation”).

5. *Determination of KPI Compensation for each Availability KPI*

- (a) The KPI Compensation for each Availability KPI for a Fiscal Year is determined as follows:
- (i) If the applicable KPI Calculation meets the Target for that Availability KPI in that Fiscal Year, then the KPI Compensation for that Key Performance Indicator for that Fiscal Year is \$0;
 - (ii) If (A) such Fiscal Year is a KPI Event Year for that Availability KPI and (B) the immediately preceding Fiscal Year was not a KPI Event Year for that Availability KPI, then the KPI Compensation shall be the amount shown on the applicable KPI Calculation Appendix for that KPI Calculation under the column labeled “0 Consecutive Event Years” and in the row where the column labeled “Annual Score” includes the KPI Calculation in the applicable KPI Calculation Appendix;
 - (iii) If such Fiscal Year and the immediately preceding Fiscal Year are both KPI Event Years for that Availability KPI, then the KPI Compensation shall be determined by adding the applicable KPI Calculation for the Fiscal Years during the KPI Measurement Window and dividing that sum by the number of Fiscal Years in the KPI Measurement Window and rounding to the decimal point set forth in the applicable KPI Calculation, or if none is provided, to the nearest whole number, (the “KPI Calculation”

Average”), in which case the KPI Compensation shall be the amount shown on the applicable KPI Calculation Appendix for that KPI Calculation under the column where the number equals the number of Fiscal Years in the KPI Measurement Window and the row where the column labeled “Annual Score” includes the KPI Calculation Average in the applicable KPI Calculation Appendix, provided that if the KPI Compensation for such Fiscal Year would be higher if calculated pursuant to sub-section (ii) hereof, then the KPI Compensation shall be calculated in accordance with sub-section (ii) as if the immediately preceding Fiscal Year was not a KPI Event Year.

- (b) The Concessionaire shall have the right, within 60 Days following an Unplanned Outage for a Portion of the Utility System, to deliver notice to the University that it believes, in its reasonable discretion, that a single root cause caused an Unplanned Outage for multiple Portions of the Utility System, which notice shall include reasonable evidence supporting such conclusion. If the University, in its reasonable discretion, agrees that a single root cause caused an Unplanned Outage for multiple Portions of the Utility System, then it shall waive the Unplanned Outages for all Portions of the Utility System other than the Portion of the Utility System that the University, in its discretion, determines is the primary Portion of the Utility System affected by the root cause, solely for purposes of determining whether a KPI Event occurred in a particular Fiscal Year. For the avoidance of doubt, the Unplanned Outage for the primary Portion of the Utility System affected by the root cause shall be used to determine both the number of events of Unplanned Outages and the number of hours of Unplanned Outages for that Portion of the Utility System.

6. *KPI Calculation for each Operational KPI*

- (a) *KPI Calculation for Safety – Recordable Injury Rate: KPI Calculation Appendix 15*

The Key Performance Indicator for the total OSHA recordable frequency is the number of fatalities, lost time injuries, substitute work, and other injuries (except a hearing threshold shift) requiring treatment by a medical professional and required to be recorded by OSHA in the performance of the Utility Services in the performance of the Utility Services (the “Safety KPI”).

- (b) *KPI Calculation for Environmental Compliance – Annual Rate of Notices of Violation: KPI Calculation Appendix 16*

The Key Performance Indicator for environmental compliance will be the sum, in any given Fiscal Year, of the Notice of Violation notices received from the Iowa Department of Natural Resources, the U.S. Environmental Protection Agency or a successor agency to either of the foregoing, or other Governmental Authority relating to compliance with Environmental Laws directly attributable to the Utility System, including its operation and maintenance, to the extent each such

notice requires the payment of a fine or fee of \$1,000 or more (the “Environmental Compliance KPI”).

- (c) *KPI Calculation for Issuance of Public Notice Related to Water Quality: KPI Calculation Appendix 17*

The Key Performance Indicator for the issuance of public notices related to the quality of Domestic Water will be the sum of public notices sent by the Iowa Department of Natural Resources or any other Governmental Agency to the consumers of the Domestic Water Portion of the Utility System enforcing the Clean Water Act (33 U.S.C. §1321 et seq.) or any successor statute related to produced or distributed water quality (the “Public Notice of Water Quality KPI”).

7. *Determination of KPI Compensation for each Operational KPI*

- (a) The KPI Compensation for each Operational KPI for a Fiscal Year is determined as follows:
- (i) If the applicable KPI Calculation meets the Target for that Operational KPI in that Fiscal Year, then the KPI Compensation for that Key Performance Indicator for that Fiscal Year is \$0;
 - (ii) If (A) such Fiscal Year is a KPI Event Year for that Operational KPI and (B) the immediately preceding Fiscal Year was not a KPI Event Year for that Operational KPI, then the KPI Compensation shall be the amount shown on the applicable KPI Calculation Appendix for that KPI Calculation under the column labeled “0 Consecutive Event Years” and in the row where the column labeled “Annual Score” includes the KPI Calculation in the applicable KPI Calculation Appendix;
 - (iii) If such Fiscal Year and the immediately preceding Fiscal Year are both KPI Event Years for that Operational KPI, then the KPI Compensation shall be determined by determining the KPI Calculation Average, in which case the KPI Compensation shall be the amount shown on the applicable KPI Calculation Appendix for that KPI Calculation under the column where the number equals the number of Fiscal Years in the KPI Measurement Window and the row where the column labeled “Annual Score” includes the KPI Calculation Average in the applicable KPI Calculation Appendix, provided that if the KPI Compensation for such Fiscal Year would be higher if calculated pursuant to sub-section (ii) hereof, then the KPI Compensation shall be calculated in accordance with sub-section (ii) as if the immediately preceding Fiscal Year was not a KPI Event Year.

8. *Delivery of KPI Calculations and Right to Audit any Key Performance Indicator Calculation*

- (a) Within 30 Days after the expiration of the current Fiscal Year, the Concessionaire shall provide the University with written notice of its determination of all KPI Calculations and the KPI Compensation for the current Fiscal Year.
- (b) The records that the Concessionaire maintains with respect to the calculation of the actual KPI Calculations shall be retained by the Concessionaire for a period of 4 Fiscal Years following the Fiscal Year to which such KPI Calculations relate in an electronic or other form reasonably acceptable to the University. The University shall have the right, through its Representatives, to examine, copy and audit such records at reasonable times, upon not less than 5 Business Days' prior notice, at such place within the City of Iowa City as the Concessionaire shall reasonably designate from time to time for the keeping of such records. All costs of any such audit shall be borne by the University; provided, however, that if such audit establishes that any KPI Compensation for any particular KPI Calculation for the applicable Fiscal Year was lower than the final determination thereof, as set forth in the statement delivered by the Concessionaire to the University, by at least 1.0%, then the Concessionaire shall pay the cost of such audit. If, as a result of such audit, it is determined that the Concessionaire under calculated the KPI Compensation for any particular Fiscal Year, such difference shall be included as KPI Compensation in the KPI Evaluation Period during which such determination was made.

Schedule 15
Appendix 1: Critical Facilities and Non-Critical Facilities

Critical Facilities

MAIN CAMPUS BUILDINGS - CRITICAL	
Bldg No	Building Name
3	Chemistry Building
6	Pharmacy Building
18	Biology Building
25	Pappajohn Biomedical Discovery Building
28	Medical Laboratories
31	General Hospital
34	Medical Education Building
64	Medical Research Center
106	College of Pharmacy Building
181	South Wing
182	Medical Research Facility
188	Spence Labs
204	Bowen Science Building
316	Lindquist Center
343	Boyd Tower
359	Carver Pavilion
375	Colloton Pavilion
400	Children's Hospital
401	Eckstein Medical Research Building
418	Iowa Advanced Technology Laboratories
421	Pappajohn Pavilion
431	Pomerantz Family Pavilion
447	Medical Education Research Facility
448	Biology Building East
455	Carver Biomedical Research Building
OAKDALE CAMPUS - CRITICAL	
26	State Hygienic Laboratory
245	Biomedical Research Support Facility
290	Information Technology Facility

Non-Critical Facilities

MAIN CAMPUS BUILDINGS - NON-CRITICAL	
Bldg No	Building Name
1	Old Capitol
2	Schaeffer Hall
4	Jessup Hall
6	Pharmacy Building
7	Calvin Hall
8	Macbride Hall
11	Seashore Hall
12	Offices of State Board of Regents
13	Gerdin Athletic Learning Center
14	WSUI Transmitter Building
15	Halsey Hall
16	Communications Center
19	Sciences Library
20	Stuit Hall
21	Art Building
22	Seamans Center
23	MacLean Hall
24	Stanley Hydraulics Laboratory
29	Trowbridge Hall
33	Westlawn
35	North Hall
37	Art Building West
38	Gilmore Hall
39	Presidents Residence
40	Field House
42	Kinnick Stadium
44	Currier Hall
46	Iowa Memorial Union
48	Danforth Chapel
50	Theatre Building
54	Laundry Building (Old)
68	Campus Recreation and Wellness Center
72	University Capitol Centre
73	Burge Hall
75	College of Public Health Building
90	Visual Arts Building
112	Hillcrest Hall

115	South Quad
118	Center for Disabilities and Development
120	Hancher Auditorium
121	Parklawn Hall
123	Shambaugh House
125	Voxman Music Building
128	Duane Banks Field
132	Landscape Services Complex
134	Dey House
136	Main Library
147	Volatile Storage
160	Madison Street Services Building
176	Environmental Health and Safety Office No. 4
183	Iowa Memorial Union Parking Ramp
184	Phillips Hall
189	Psychological and Brain Sciences Building
196	English-Philosophy Building
198	Wendell Johnson Speech and Hearing Center
203	Van Allen Hall
212	Emergency Power Facility 1
220	Hospital Parking Ramp 1
222	Old Museum of Art
267	Fleet Services
272	Catlett Residence Hall
273	Rienow Hall
274	Slater Hall
275	Petersen Residence Hall
276	Daum Hall
277	Stanley Hall
278	Dental Science Building
293	Hardin Library for Health Sciences
304	Recreation Building
309	UIHC Centralized Emergency Power Generation Facility
318	West Campus Transportation Center
322	Nursing Building
342	Cambus Maintenance Facility
358	Hydraulics East Annex
374	Carver-Hawkeye Arena
376	Becker Communication Studies Building
377	Boyd Law Building

381	Hydraulics Model Annex
391	Mayflower Hall
393	Hydraulics Wind Tunnel Annex
395	Hansen Football Performance Center
396	Beckwith Boathouse
397	Football Practice Facility Building
403	Hospital Parking Ramp 2
407	Engineering Research Facility
410	Shipping and Receiving Facility
412	Hospital Parking Ramp 3
425	College of Medicine Administration Building
426	Substation L Control Building
430	Pappajohn Business Building
433	Hospital Parking Ramp 4
434	Levitt Center for University Advancement
443	Newton Road Ramp
450	University Services Building
454	Blank Honors Center
456	Adler Journalism and Mass Communication Building
458	Pomerantz Center
478	Advancement Services Building
496	Ronald McDonald House
497	State Historical Society Building
OAKDALE CAMPUS BUILDINGS - NON-CRITICAL	
Bldg No	Building Name
213	Institute for Rural and Environmental Health
227	Technology Innovation Center
239	Oakdale Utility Power Plant
241	Environmental Management Facility
242	Oakdale Shops Building A
243	Oakdale Shops Building B
244	Oakdale Storage K (Bat Cave)
230	Oakdale Studio A
246	Oakdale Shops Building C
291	Oakdale Shops Building D
305	Oakdale Research Facilities
330	Physiology Research Laboratory
370	Iowa Geological Survey - Oakdale
373	Hydraulics Annex 1

382	Research Park Landscape Service
409	Oakdale Microwave Transmitter
413	Oakdale Biology Greenhouse
420	Hydraulics Wave Basin Facility
435	Multi-Tenant Facility
439	National Advanced Driving Simulator Building
440	Hydraulics Annex 2
441	Laundry
HAWKEYE CAMPUS BUILDINGS - NON-CRITICAL	
Bldg No	Building Name
81	Faculty Art Studios
289	Sports Medicine Clinic
438	Hawkeye Parking Service Building
444	Hawkeye Recreation Service Building
446	Karro Athletic Hall of Fame
457	Hawkeye Tennis and Recreation Complex

Schedule 15
Appendix 2: Reserved

KPI Calculation for Electric Hours Critical KPI Calculation
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Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-40 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41-50 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
51-55 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
56-60 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
61-65 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
66-70 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
71-75 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
76-80 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 80 hours	\$ 10,000,000	\$ 10,000,000						

Examples: For illustration purposes only					
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Annual Score		KPI Event	Consecutive Event Years	Average Consecutive Year Score	KPI Charge
Year A	16 hours	No	0	N/A	\$ -
Year B	45 hours	Yes	0	45 hours	\$ -
Year C	70 hours	Yes	2	58 hours	\$ 2,000,000
Year D	50 hours	Yes	3	55 hours	\$ 1,000,000
Year E	65 hours	Yes	4	58 hours	\$ 4,000,000
Year F	72 hours	Yes	5	60 hours	\$ 8,000,000
Year G	20 hours	No	0	N/A	\$ -
Year H	52 hours	Yes	0	52 hours	\$ -
Year I	60 hours	Yes	2	56 hours	\$ 1,000,000
Year J	0 hours	No	0	N/A	\$ -

KPI Calculation for Electric Hours Non-Critical KPI Calculation
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Annual Score % of Availability	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-60 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
61-70 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
71-75 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
76-80 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
81-85 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
86-90 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
91-95 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
96-100 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 100 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Electric Events Critical KPI Calculation
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KPI Compensation to the University								
Annual Score	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target ≤ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
5	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
6	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
7 or greater	\$ 10,000,000	\$ 10,000,000						

Examples: For illustration purposes only					
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Annual Score		KPI Event	Consecutive Event Years	Average Consecutive Year Score	KPI Charge
Year A	4	Yes	0	4	\$ -
Year B	5	Yes	2	5	\$ 2,000,000
Year C	2	No	0	N/A	\$ -
Year D	4	Yes	0	4	\$ -
Year E	4	Yes	2	3	\$ -
Year F	5	Yes	3	4	\$ 1,000,000
Year G	6	Yes	4	5	\$ 8,000,000
Year H	4	Yes	5	5	\$ 10,000,000
Year I	1	No	0	N/A	\$ -
Year J	2	No	0	N/A	\$ -

KPI Calculation for Electric Events Non-Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target ≤ 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
6	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
7	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
8 or greater	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Steam Hours Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
% Availability	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0-24 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25-36 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
37-40 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
41-44 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
45-48 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
49-52 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
53-56 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
57-60 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 60 hours	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Steam Hours Non-Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
% Availability	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0-48 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49-54 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
55-58 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
59-62 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
63-66 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
67-70 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
71-74 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
75-78 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 78 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Steam Events Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 - 5	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
6 - 7	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
8 - 9	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 9	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Steam Events Non-Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 - 5	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
6 - 7	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
8 - 9	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
> 9	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Chilled Water Hours Critical KPI Calculation

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-24 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25-36 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
37-40 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
41-44 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
45-48 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
49-52 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
53-56 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
57-60 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 60 hours	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Chilled Water Hours Non-Critical KPI Calculation
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Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-48 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49-54 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
55-58 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
59-62 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
63-66 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
67-70 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
71-74 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
75-78 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 78 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Chilled Water Events Critical KPI Calculation
--

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 - 5	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
6 - 7	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
8 - 9	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 9	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Chilled Water Events Non-Critical KPI Calculation
--

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 - 7	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
8- 9	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
10 - 11	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
>11	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Domestic Water Hours Critical KPI Calculation
--

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-24 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25-36 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
37-40 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
41-44 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
45-48 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
49-52 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
53-56 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
57-60 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 60 hours	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Domestic Water Hours Non-Critical KPI Calculation

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-48 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49-54 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
55-58 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
59-62 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
63-66 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
67-70 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
71-74 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
75-78 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 78 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Domestic Water Events Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4 - 5	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
6 - 7	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
8 - 9	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 9	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Domestic Water Events Non-Critical KPI Calculation

KPI Compensation to the University								
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6 - 7	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
8- 9	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
10 - 11	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
>11	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Sanitary Sewer Hours Critical KPI Calculation
--

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-24 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25-36 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
37-40 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
41-44 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
45-48 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
49-52 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
53-56 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
57-60 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 60 hours	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Sanitary Sewer Hours Non-Critical KPI Calculation
--

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-48 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49-54 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
55-58 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
59-62 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
63-66 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
67-70 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
71-74 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
75-78 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 78 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Sanitary Sewer Events Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 – 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 – 3	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
4 – 5	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
6 - 7	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 7	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Sanitary Sewer Events Non-Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 – 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 – 4	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
5 – 6	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
7 - 8	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
>8	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Storm Water Hours Critical KPI Calculation

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-24 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25-36 hours	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
37-40 hours	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
41-44 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000	
45-48 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
49-52 hours	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000			
53-56 hours	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
57-60 hours	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000					
> 60 hours	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Storm Water Hours Non-Critical KPI Calculation
--

Annual Score # of Outage Hours	KPI Compensation to the University							
	0 Consecutive Event Years	2 Consecutive Event Years	3 Consecutive Event Years	4 Consecutive Event Years	5 Consecutive Event Years	6 Consecutive Event Years	7 Consecutive Event Years	8 Consecutive Event Years
Target 0-48 hours	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
49-54 hours	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
55-58 hours	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
59-62 hours	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000	
63-66 hours	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
67-70 hours	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000			
71-74 hours	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
75-78 hours	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000					
> 78 hours	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Storm Water Events Critical KPI Calculation

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 – 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 – 3	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
4 – 5	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
6 – 7	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 7	\$ 10,000,000	\$ 10,000,000						

KPI Calculation for Storm Water Events Non-Critical KPI Calculation
--

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 – 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 – 4	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000
5 – 6	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
7 – 8	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
>8	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Safety

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5 - 6	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
7 - 8	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
9 - 10	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
> 10	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Environmental Compliance

	KPI Compensation to the University							
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 - 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 - 3	\$ -	\$ -	\$ 250,000	\$ 500,000	\$ 1,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000
4 - 5	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000		
6 - 7	\$ 2,000,000	\$ 4,000,000	\$ 5,000,000	\$ 5,000,000				
> 7	\$ 5,000,000	\$ 5,000,000						

KPI Calculation for Public Notice of Water Quality
--

KPI Compensation to the University								
Annual Score	0 Consecutive	2 Consecutive	3 Consecutive	4 Consecutive	5 Consecutive	6 Consecutive	7 Consecutive	8 Consecutive
Number of Events	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years	Event Years
Target 0 – 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000
3	\$ 1,000,000	\$ 2,000,000	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000		
4	\$ 4,000,000	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000				
> 5	\$ 10,000,000	\$ 10,000,000						

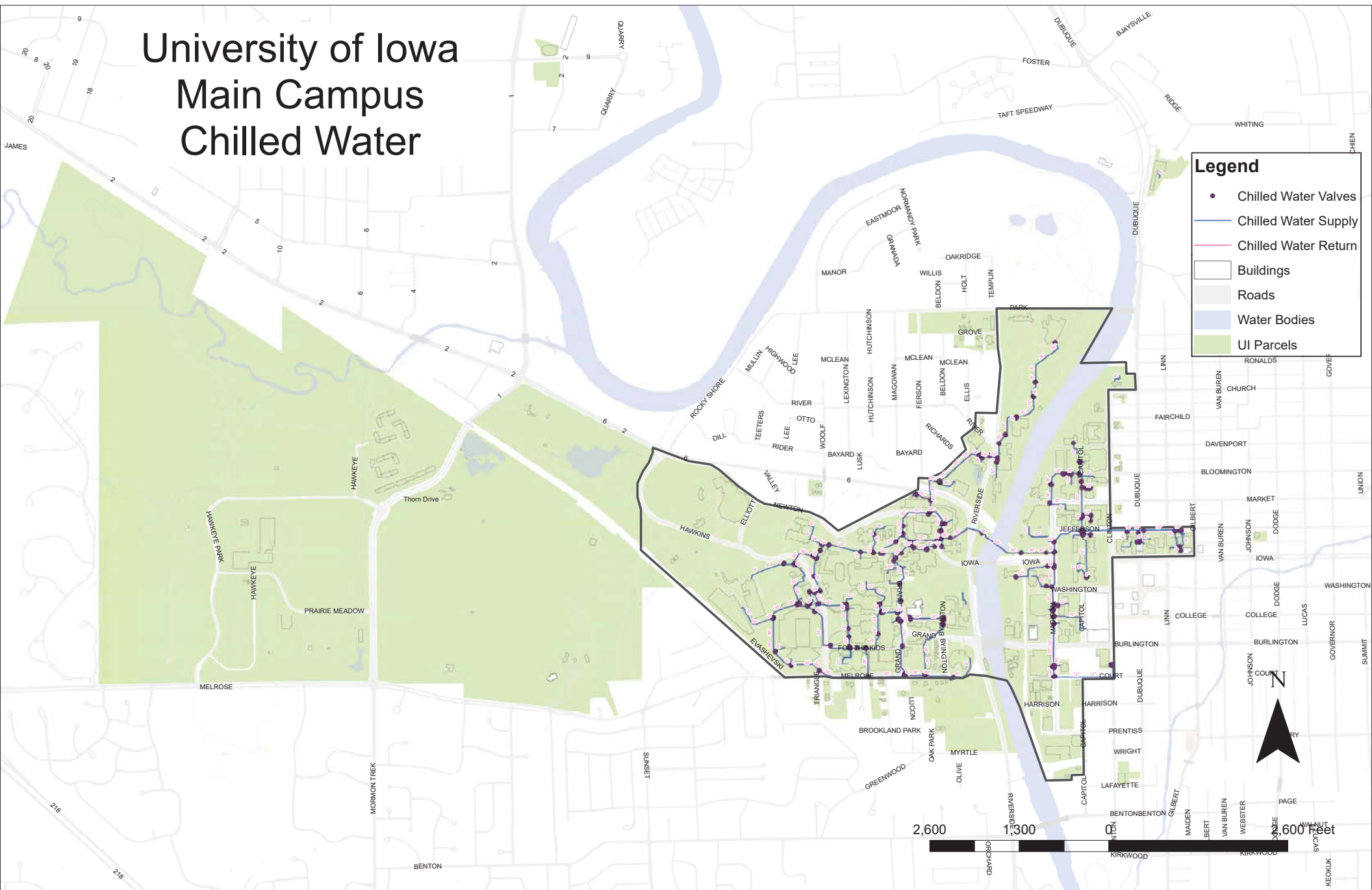
SCHEDULE 16

MAIN CAMPUS

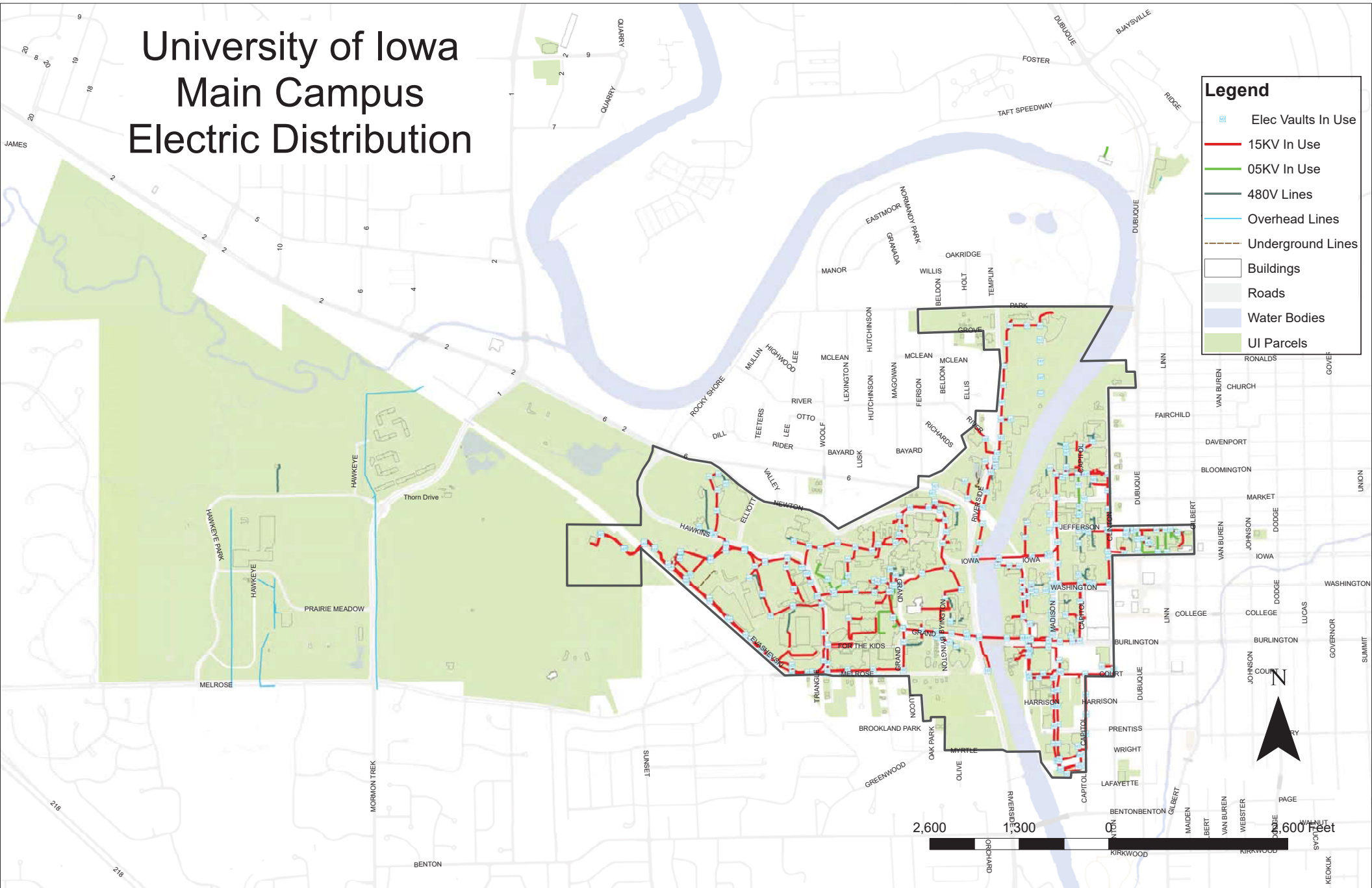
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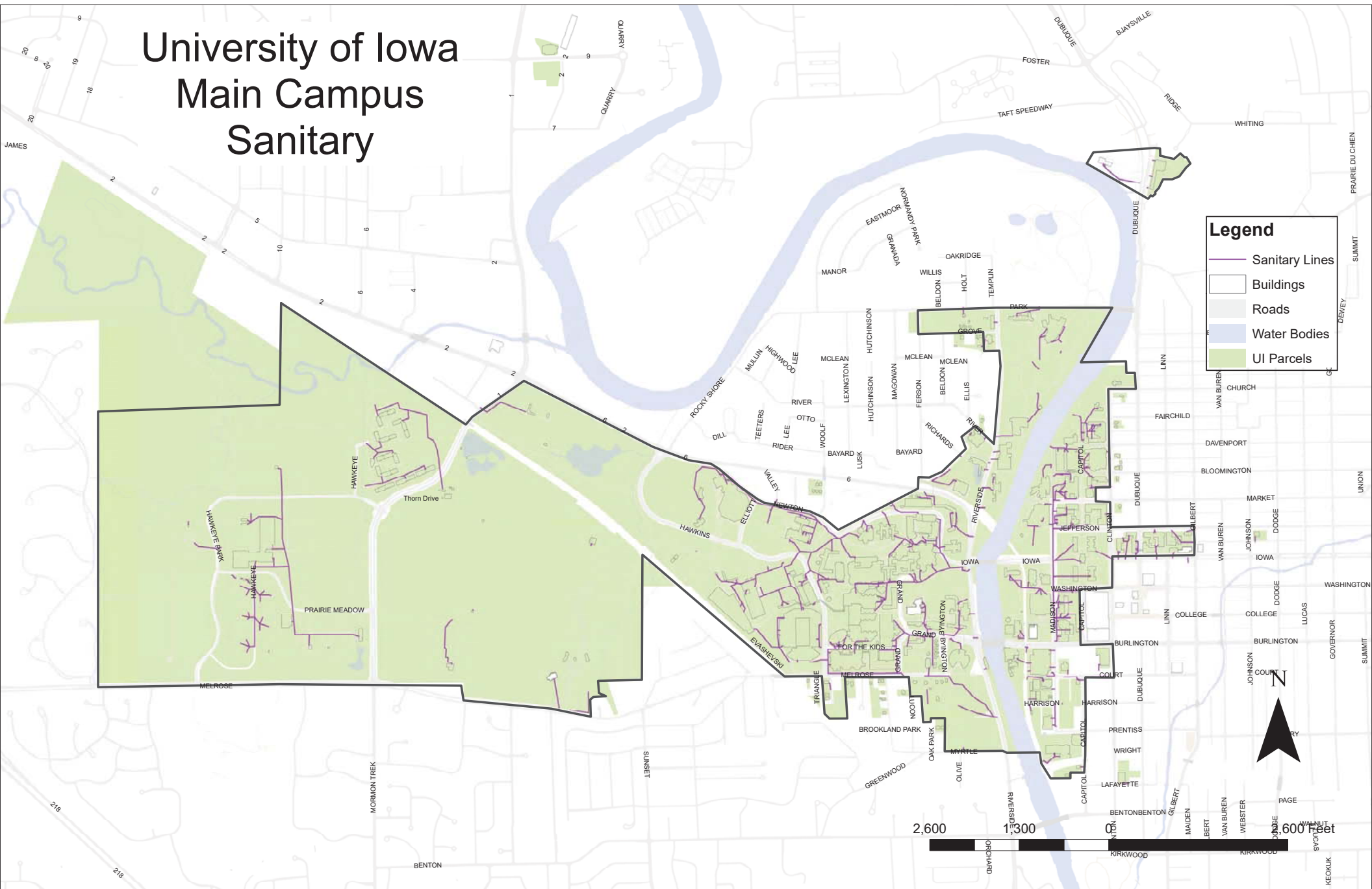
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Part 2	Main Campus Chilled Water System
Part 3	Main Campus Electrical Distribution
Part 4	Main Campus Sanitary Sewer System
Part 5	Main Campus Steam and Condensate System
Part 6	Main Campus Storm Water System
Part 7	Main Campus Domestic Water System

University of Iowa Main Campus Chilled Water

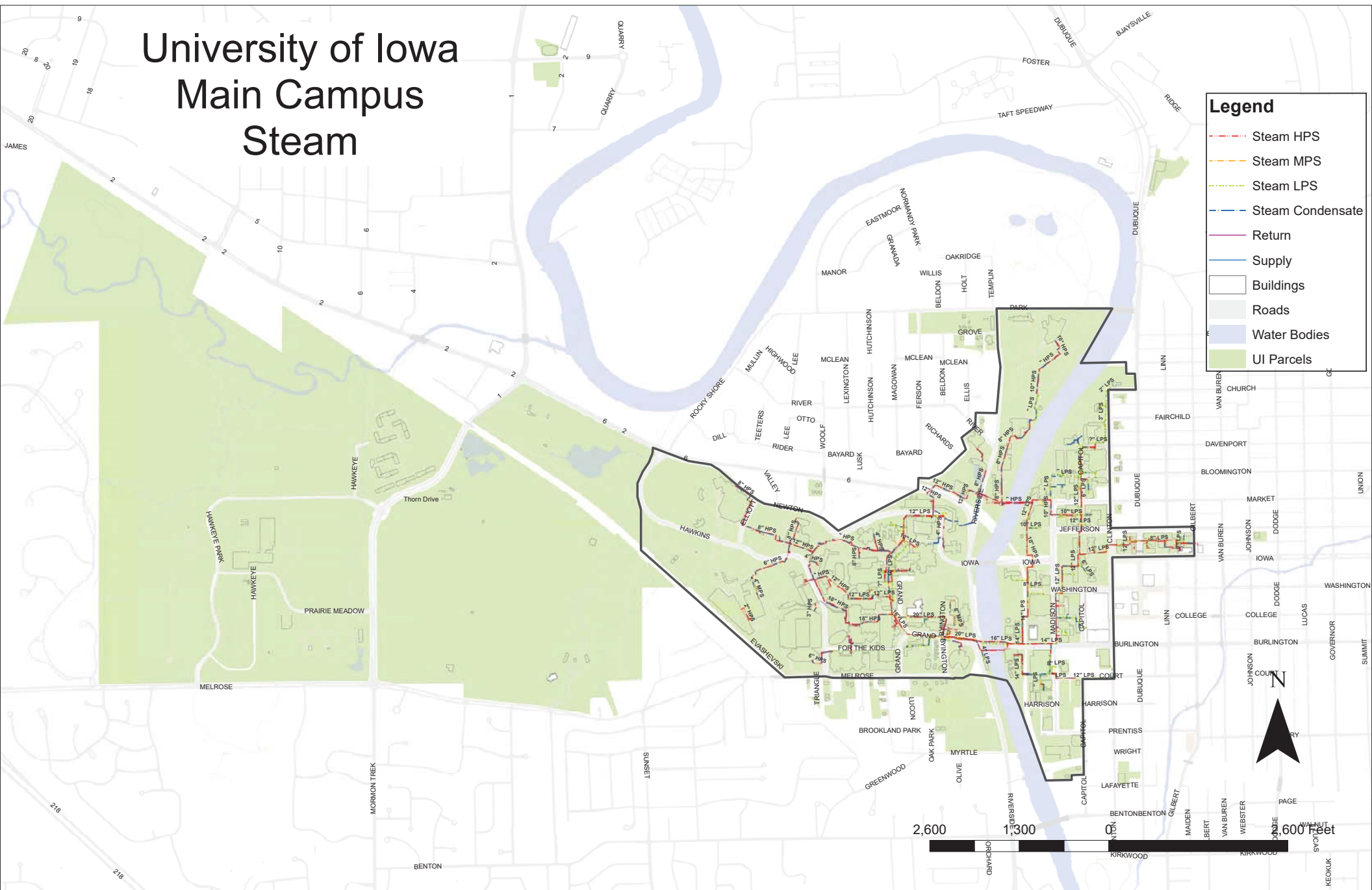


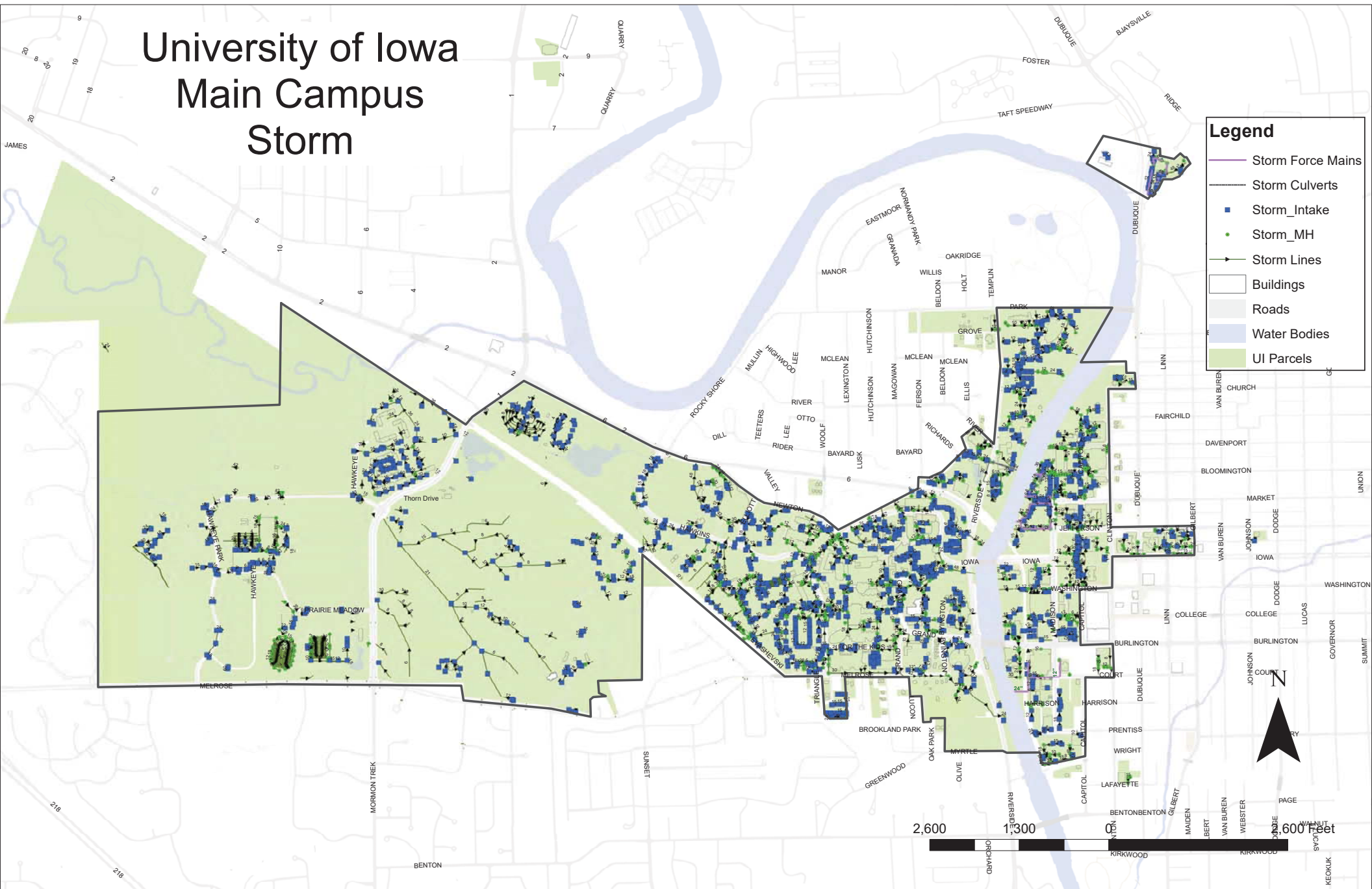
University of Iowa Main Campus Electric Distribution



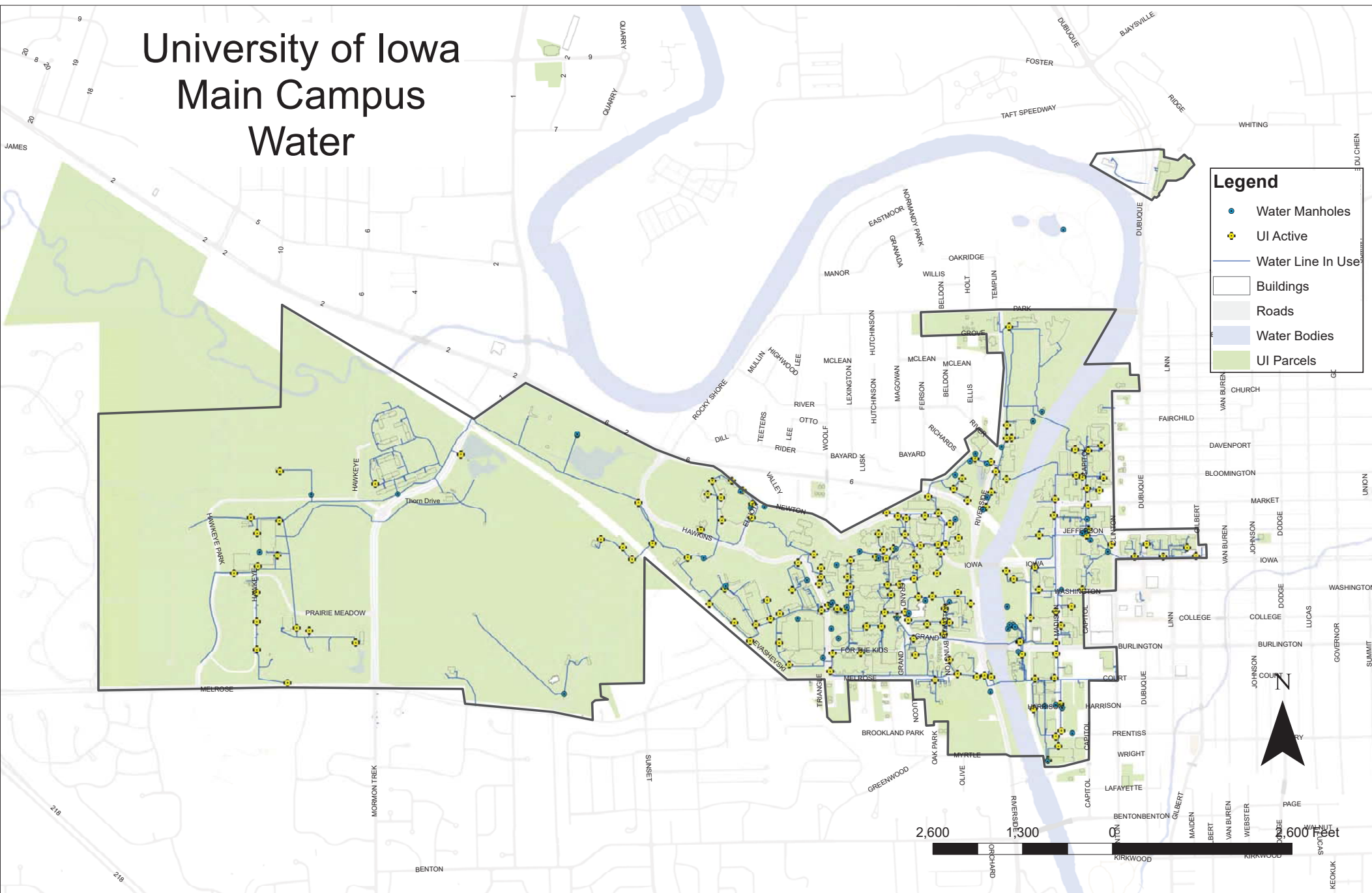


2,600 1,300 0 2,600 Feet





University of Iowa
Main Campus
Water



SCHEDULE 17

OAKDALE CAMPUS

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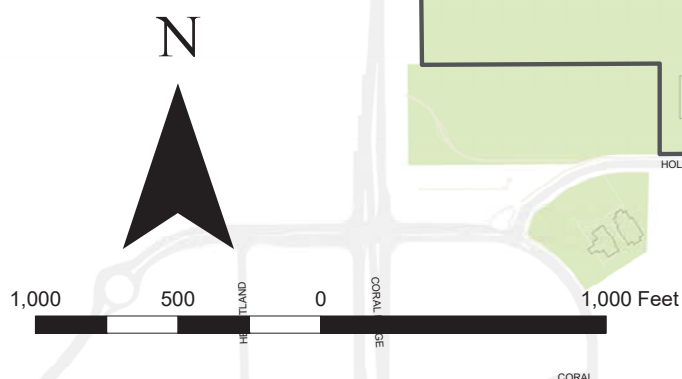
Part 1	Oakdale Campus Compressed Air System
Part 2	Oakdale Campus Chilled Water System
Part 3	Oakdale Campus Electrical Distribution
Part 4	Oakdale Campus Sanitary Sewer System
Part 5	Oakdale Campus Steam and Condensate System
Part 6	Oakdale Campus Storm Water System
Part 7	Oakdale Campus Domestic Water System

Part 1

University of Iowa Research Park and Oakdale Campus Compressed Air

Legend

- Air Lines In Use
- Buildings
- Roads
- Water Bodies
- UI Parcels














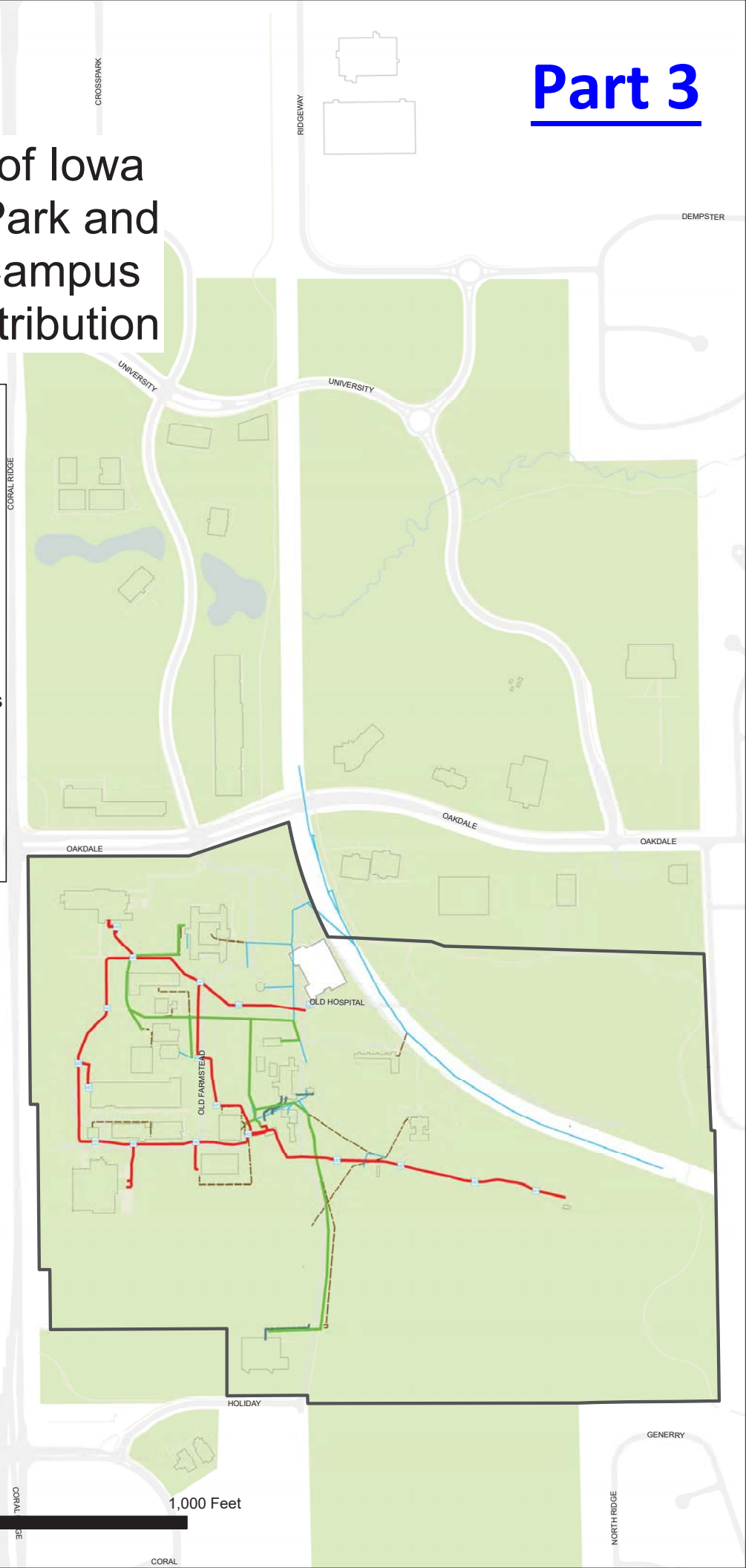
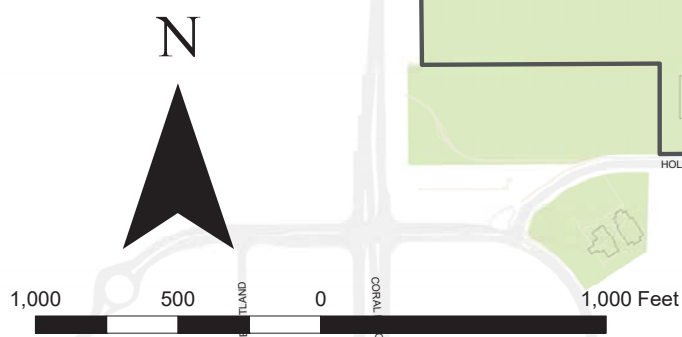
University of Iowa Research Park and Oakdale Campus Chilled Water



University of Iowa Research Park and Oakdale Campus Electric Distribution

Legend

-  Elec Vaults In Use
-  15KV Loop Names
-  15KV In Use
-  05KV In Use
-  480V Lines
-  Overhead Lines
-  Underground Lines
-  Buildings
-  Roads
-  Water Bodies
-  UI Parcels



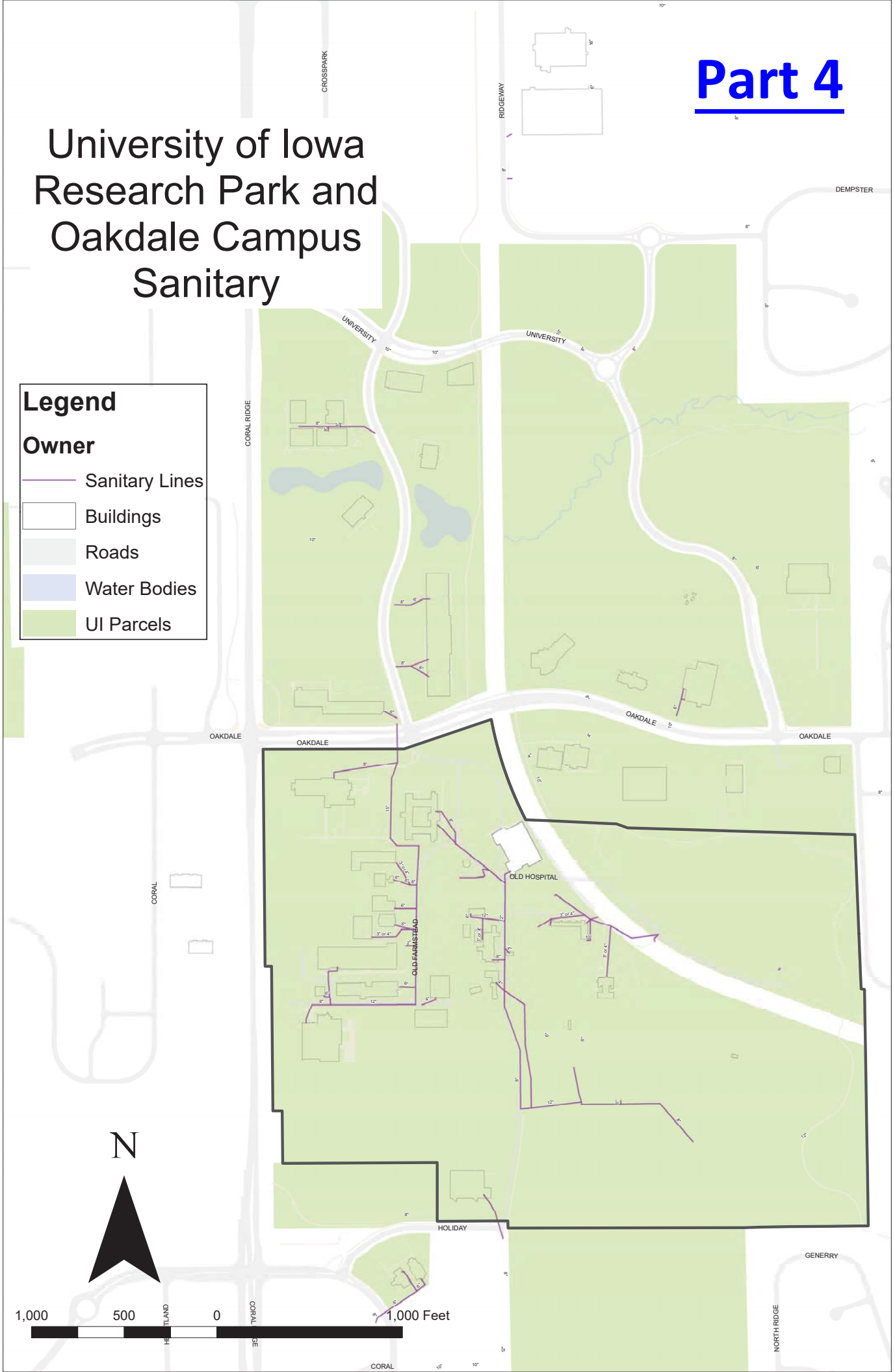
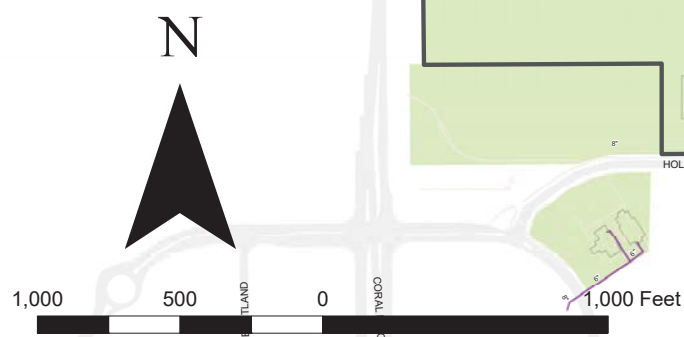
Part 4

University of Iowa Research Park and Oakdale Campus Sanitary

Legend

Owner

- Sanitary Lines
- Buildings
- Roads
- Water Bodies
- UI Parcels

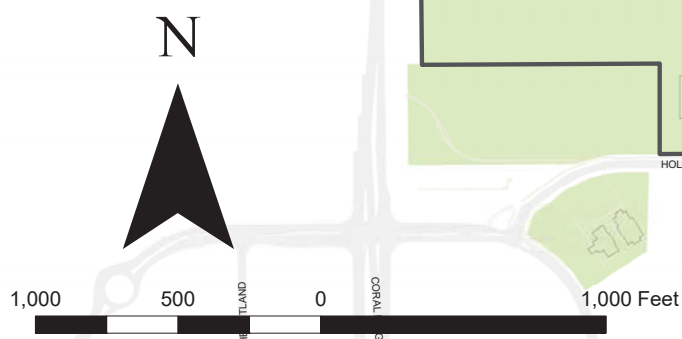


Part 5

University of Iowa Research Park and Oakdale Campus Steam

Legend

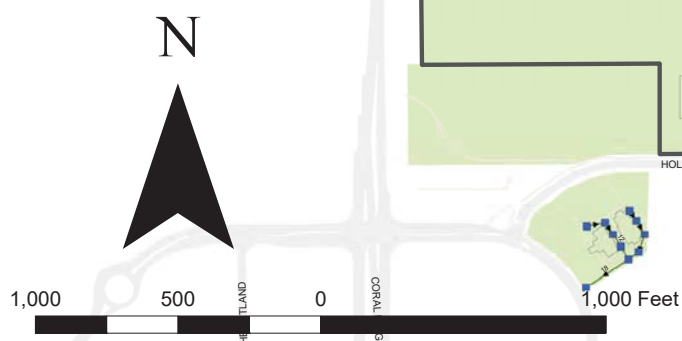
- HPS Valves
- LPS Valves
- - - Steam HPS
- - - Steam MPS
- - - Steam LPS
- - - Steam Condensate
- - - Return
- - - Supply
- Buildings
- Roads
- Water Bodies
- UI Parcels



University of Iowa Research Park and Oakdale Campus Storm

Legend

- Storm Force Mains
- Storm Culverts
- Storm_Intake
- Storm_MH
- Storm Lines
- Buildings
- Roads
- Water Bodies
- UI Parcels

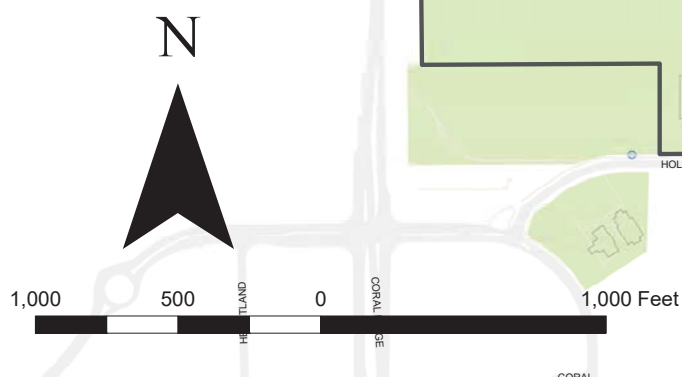


Part 7

University of Iowa Research Park and Oakdale Campus Water

Legend

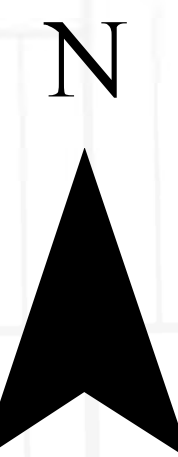
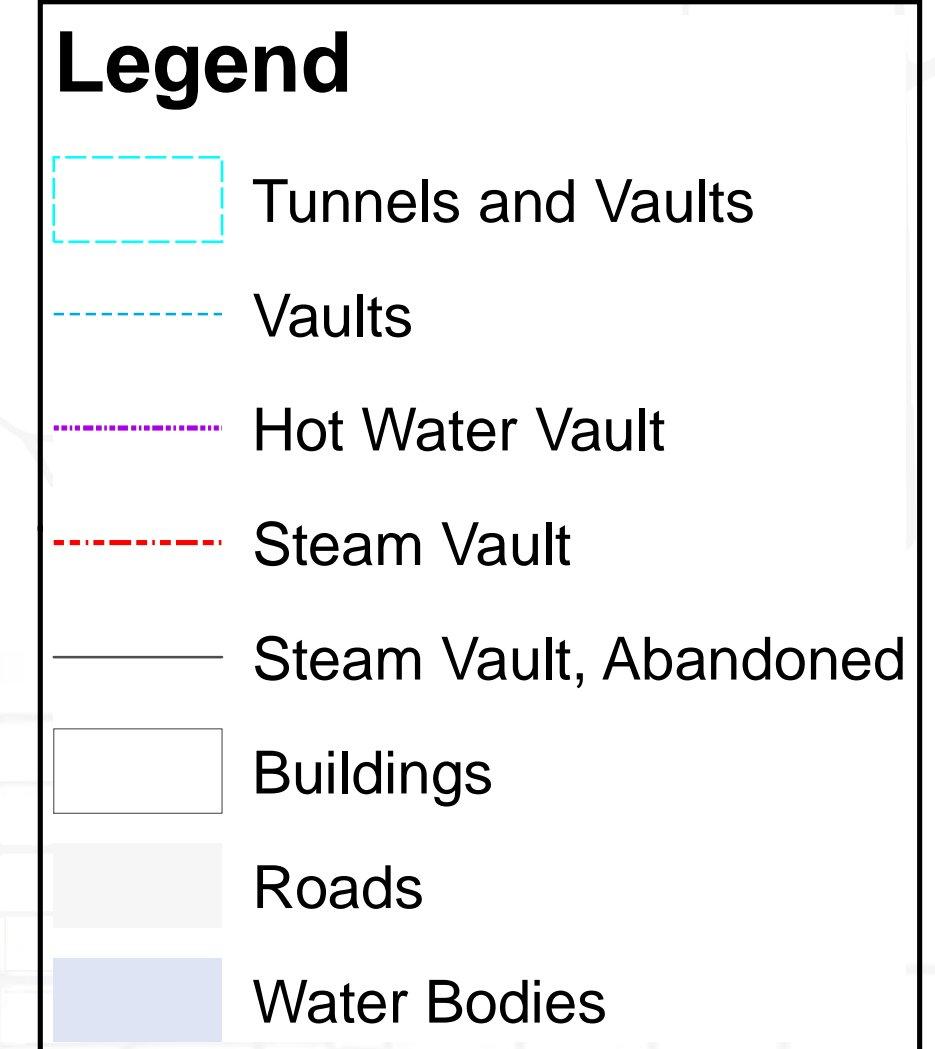
- Water Line In Use
- Buildings
- Roads
- Water Bodies
- UI Parcels



SCHEDULE 18
UNDERGROUND TUNNELS

[See Attached]

University of Iowa Main Campus Tunnels and Vaults



University of Iowa Research Park and Oakdale Campus Tunnels and Vaults

Legend

Tunnels and Vaults

Vaults

Hot Water Vault

Steam Vault

Steam Vault, Abandoned

Buildings

Roads

Water Bodies

A detailed map of the University of Iowa Research Park and Oakdale Campus. The map features a network of roads in light gray and tan, with several buildings represented by white outlines. Water bodies are shown in light blue. A series of dashed lines in cyan, red, and purple represent tunnels and vaults. The map includes a legend in the top left corner, a north arrow in the bottom left, and a scale bar at the bottom. The scale bar is marked with 1,000, 500, 0, and 1,000 Feet. The map shows a complex network of roads and buildings, with the tunnels and vaults system running through the center and right side of the campus.

N

1,000 500 0 1,000 Feet

SCHEDULE 19

MATERIAL AUTHORIZATIONS

1. NPDES Permit for Main Power Plant (5225101, Expiration Date: May 31, 2022, Renewal Application Date: December 2, 2021, EPA Number IA0003077).
2. NPDES Permit for Water Plant (5225105, Date of Expiration: June 23, 2023, Renewal Application Date: January 1, 2013; EPA Number IA0071919).
3. NPDES Permit for Cooling Tower Blow Down (Chilled Water) (5225108, Expiration Date: March 31, 2022, Renewal Application Date: October 2, 2021, EPA Number IA0069159).
4. Refrigerant Management for Concession Activities.
5. Water Plant Operating Permit (5225101, Expiration Date: November 30, 2020, Renewal Application Date: October 1, 2020).
6. Oakdale Water Operating Permit (5200982, Expiration Date: September 30, 2021, Renewal Application Date: August 1, 2021).
7. Beneficial Use Determination Compliance (power plant ash disposal) (07-BUD-20-02, Expiration Date: January 1, 2023, Renewal Application Date: October 3, 2022).
8. Water Use Permit, University of Iowa (Water Plant) (597 // 30438, 1,500 MGY, Granted Period: 8/7/2019 - 8/6/2024).
9. Water Use Permit, University of Iowa (Main Power Plant) (599 // 30437, 55,000 AFY. Granted Period: 8/7/2019 - 8/6/2029).
10. Water Use Permit, University of Iowa (Oakdale Campus Water Plant) (2485 // 27683, 63.3 MGY, Granted Period: 10/14/2013 – 10/13/2023).

SCHEDULE 20

SECTION 1060 ALLOCATION SCHEDULE

f) Tax Allocation Schedules

HEC acknowledges the intent of the University to treat the Concession Agreement as a sale and service agreement for tax purposes and HEC's proposal also reflects this position. As stated in Section 2.6 of the Concession Agreement, HEC and the University will use commercially reasonable efforts to achieve this treatment.

Section 467 Tax Allocation

Lease Term		50 years	
Interest rate (110% AFR)		2.13%	(note)
Annual rent allocation		1,240,000	
Lease Value		62,000,000	(note)

	Rent Payments (Beginning of Period)	Section 467 Rent Allocation	Section 467 Rent	Section 467 Loan Balance	Section 467 Intrest Inc
Year 1	62,000,000	1,240,000	(2,027,341)	62,000,000	1,320,600
Year 2	-	1,240,000	(2,027,341)	61,293,259	1,305,546
Year 3	-	1,240,000	(2,027,341)	60,571,465	1,290,172
Year 4	-	1,240,000	(2,027,341)	59,834,296	1,274,471
Year 5	-	1,240,000	(2,027,341)	59,081,426	1,258,434
Year 6	-	1,240,000	(2,027,341)	58,312,519	1,242,057
Year 7	-	1,240,000	(2,027,341)	57,527,235	1,225,330
Year 8	-	1,240,000	(2,027,341)	56,725,225	1,208,247
Year 9	-	1,240,000	(2,027,341)	55,906,131	1,190,801
Year 10	-	1,240,000	(2,027,341)	55,069,591	1,172,982
Year 11	-	1,240,000	(2,027,341)	54,215,232	1,154,784
Year 12	-	1,240,000	(2,027,341)	53,342,676	1,136,199
Year 13	-	1,240,000	(2,027,341)	52,451,534	1,117,218
Year 14	-	1,240,000	(2,027,341)	51,541,411	1,097,832
Year 15	-	1,240,000	(2,027,341)	50,611,902	1,078,034
Year 16	-	1,240,000	(2,027,341)	49,662,595	1,057,813
Year 17	-	1,240,000	(2,027,341)	48,693,068	1,037,162
Year 18	-	1,240,000	(2,027,341)	47,702,889	1,016,072
Year 19	-	1,240,000	(2,027,341)	46,691,620	994,532
Year 20	-	1,240,000	(2,027,341)	45,658,811	972,533
Year 21	-	1,240,000	(2,027,341)	44,604,002	950,065
Year 22	-	1,240,000	(2,027,341)	43,526,727	927,119
Year 23	-	1,240,000	(2,027,341)	42,426,505	903,685
Year 24	-	1,240,000	(2,027,341)	41,302,849	879,751
Year 25	-	1,240,000	(2,027,341)	40,155,259	855,307
Year 26	-	1,240,000	(2,027,341)	38,983,225	830,343
Year 27	-	1,240,000	(2,027,341)	37,786,227	804,847
Year 28	-	1,240,000	(2,027,341)	36,563,733	778,808
Year 29	-	1,240,000	(2,027,341)	35,315,200	752,214
Year 30	-	1,240,000	(2,027,341)	34,040,073	725,054
Year 31	-	1,240,000	(2,027,341)	32,737,785	697,315
Year 32	-	1,240,000	(2,027,341)	31,407,759	668,985

Year	33	-	1,240,000	(2,027,341)	30,049,404	640,052
Year	34	-	1,240,000	(2,027,341)	28,662,115	610,503
Year	35	-	1,240,000	(2,027,341)	27,245,278	580,324
Year	36	-	1,240,000	(2,027,341)	25,798,261	549,503
Year	37	-	1,240,000	(2,027,341)	24,320,423	518,025
Year	38	-	1,240,000	(2,027,341)	22,811,108	485,877
Year	39	-	1,240,000	(2,027,341)	21,269,643	453,043
Year	40	-	1,240,000	(2,027,341)	19,695,346	419,511
Year	41	-	1,240,000	(2,027,341)	18,087,516	385,264
Year	42	-	1,240,000	(2,027,341)	16,445,439	350,288
Year	43	-	1,240,000	(2,027,341)	14,768,386	314,567
Year	44	-	1,240,000	(2,027,341)	13,055,612	278,085
Year	45	-	1,240,000	(2,027,341)	11,306,356	240,825
Year	46	-	1,240,000	(2,027,341)	9,519,840	202,773
Year	47	-	1,240,000	(2,027,341)	7,695,272	163,909
Year	48	-	1,240,000	(2,027,341)	5,831,841	124,218
Year	49	-	1,240,000	(2,027,341)	3,928,718	83,682
Year	50	-	1,240,000	(2,027,341)	1,985,059	42,282
Total			62,000,000	(101,367,040)	(0)	39,367,040

* Note the AFR will be adjusted to agree to the current rate at closing. Therefore this schedule will need to be revised according.

* Note the 62MUSD is an estimate for Leasing the land and buildings for 50 years

Section 1060 Tax Allocation

	Base Case - No tax gross up (in millions USD)	Tax Gross Up (in millions USD)
Total Purchase Consideration	1010	1,165
Less: 467 land and building	-62	(62)
Total Amount for Allocation	948	1,103

Class I assets are cash and general deposit accounts (including savings and checking accounts) other than certificates of deposit held in banks, savings and loan associations, and other depository institutions

Class I - Cash

0

0

Class II assets are actively traded personal property within the meaning of section 1092(d)(1) and Regulations section 1.1092(d)-1 (determined without regard to section 1092(d)(3)). In addition, Class II assets include certificates of deposit and foreign currency even if they are not actively traded personal property. Class II assets do not include stock of seller's affiliates, whether or not actively traded, other than actively traded stock described in section 1504(a)(4). Examples of Class II assets include U.S. government securities and publicly traded stock.

Class II - Actively traded personal property, CDs	0	0
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Class III assets are assets that the taxpayer marks-to-market at least annually for federal income tax purposes and debt instruments (including accounts receivable). However, Class III assets do not include: Debt instruments issued by persons related at the beginning of the day following the acquisition date to the target under section 267(b) or 707;

Class III - MTM assets	0	0
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Class IV assets are stock in trade of the taxpayer or other property of a kind that would properly be included in the inventory of the taxpayer if on hand at the close of the taxable year, or property held by the taxpayer primarily for sale to customers in the ordinary course of its trade or business.

Class IV - Inventory	0	0
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Class V assets are all assets other than Class I, II, III, IV, VI, and VII assets. Note. Furniture and fixtures, buildings, land, vehicles, and equipment, which constitute all or part of a trade or business (defined earlier) are generally Class V assets

Class V - Fixed Assets	757	757
------------------------	-----	-----

Class VI assets are all section 197 intangibles (as defined in section 197) except goodwill and going concern value. Section 197 intangibles include: Workforce in place; Business books and records, operating systems, or any other information base, process, design, pattern, know-how, formula, or similar item; Any customer-based intangible; Any supplier-based intangible; Any license, permit, or other right granted by a government unit; Any covenant not to compete entered into in connection with the acquisition of an interest in a trade or a business; and any franchise, trademark, or trade name (however, see exception below for certain professional sports franchises).

Class VI - section 197 intangibles	191	346
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Class VII assets are goodwill and going concern value

Class VII - goodwill	0	0
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g) Bid Security

See **Attachment 2 – Bid Security**.

SCHEDULE 21

FORM OF TRADEMARK LICENSE AGREEMENT

TRADEMARK LICENSE AGREEMENT

This Trademark License Agreement (this “Agreement”), is made and entered into as of this ____ day of ____, 20____, by and between the University of Iowa (“Licensor”), and _____, a _____ (“Licensee”). Unless the context requires otherwise, terms used in this Agreement that are initially capitalized and not otherwise defined herein will have the meanings given to them in the Concession Agreement (as defined below).

RECITALS

WHEREAS, pursuant to that certain Long-Term Lease and Concession Agreement for the University of Iowa Utility System, dated as of _____, 20__ by and between Licensor and Licensee (as may be amended, the “Concession Agreement”), Licensor will lease the Utility Facilities to Licensee and will grant Licensee the right to operate, maintain, repair, replace, improve and service the Utility System for the Term of the Concession Agreement as provided therein;

WHEREAS, Licensor is the owner of the “UNIVERSITY OF IOWA” name and trademark and certain other trademarks, service marks, trade names, and other indicia of source or goodwill, including the registrations and applications for registration thereof set forth in Exhibit A (the “(the “Licensed Trademarks”); and

WHEREAS, Licensor desires to grant to Licensee a limited license under the Licensed Trademarks for certain limited uses and times pursuant to the terms and conditions set forth herein.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties hereto agree as follows:

1. License Grant. Licensor hereby grants to Licensee, subject to the terms and upon the conditions of this Agreement, a royalty-free non-exclusive, non-transferable right and license to use the Licensed Trademarks in connection with Licensee’s operation of the Utility System and lease of the Utility Facilities in accordance with the Concession Agreement (the “Licensed Use”). Notwithstanding anything herein to the contrary, Licensed Use does not include providing utility services to customers other than Licensor or making market-based sales of electricity. Notwithstanding anything herein to the contrary, the license to use the Licensed Trademarks does not include the right for Licensee to use the Licensed Trademarks for promotion or endorsement of Licensee or Licensee’s products and services. No right or license is granted to Licensee and Licensee shall not use the Licensed Trademarks in connection with any goods, services, or use other than the Licensed Use, including in connection with providing utility services to customers other than Licensor and making market-based sales of electricity. No other

rights or licenses, other than those expressly granted herein and subject to the limitations herein and otherwise in this Agreement, are granted to Licensee in and to any intellectual property of Licensors under this Agreement, expressly, by implication or estoppels. Licensors reserves to itself all such other rights, including the right to use and license to others the right to use the Licensed Trademarks anywhere in connection with any products and/or services.

2. Quality Control. Licensee shall permit an authorized representative of Licensors to inspect the use of the Licensed Trademarks from time to time, to make certain that the high quality image of Licensors is maintained and that the use of the Licensed Trademarks otherwise complies with the terms of this Agreement and the Concession Agreement. The quality, appearance, style and use of the Licensed Trademarks shall be subject to the written approval of Licensors prior to any use of the Licensed Trademarks by Licensee, such approval not to be unreasonably withheld. No changes with respect to the use of the Licensed Trademarks shall be made without the prior written consent of Licensors.

3. Material. All promotional material utilizing or tying in with the Licensed Trademarks shall be submitted for prior written approval to Licensors's Trademark Licensing Office, which will act in a timely manner.

4. Assignability. Except for an assignment and pledge of this Agreement to the collateral agent as security for the benefit of the Concessionaire's lenders, this Agreement may not be assigned by Licensee without the prior written consent of Licensors. Nevertheless, the Licensed Trademarks are licensed to Licensee based upon Licensors's belief that Licensee will properly utilize the Licensed Trademarks in a high quality manner. A Change in Control of Licensee, and any Transfer of the Concessionaire Interest in contravention of Article 17 of the Concession Agreement, will be considered an assignment subject to this Section 4.

5. No Sublicensing Rights. Except for a sublicense of the Licensed Trademarks to the Operator solely for the purpose of performing the Utility Services, Licensee may not authorize, permit or grant any right or sublicense to third parties to use the Licensed Trademarks; provided that the Operator shall not sublicense or transfer such sublicense to any party.

6. Third Party Infringements. Licensors may, at its own expense, challenge all unauthorized uses of the Licensed Trademarks or colorable imitations thereof and may prosecute infringers who may use or attempt to use the Licensed Trademarks or any trademark confusingly similar thereto. In this connection, Licensee shall cooperate with Licensors by assisting with the prosecution of lawsuits, providing available evidence and the like. In the event Licensors finds it necessary to institute legal proceedings affecting the rights acquired by Licensee under this Agreement, Licensee may employ counsel at its own expense to assist Licensors's effort.

7. Indemnification. Licensee agrees to indemnify, hold harmless and defend Licensors, the Board of Regents, State of Iowa, their agents, officials, and employees and any related entities with legal counsel acceptable to Licensors and the State of Iowa's Attorney General from and against all demands, claims, injuries, losses, damages, actions, suits, causes of action, proceedings, judgments, liabilities and expenses, including attorneys' fees, court costs and other legal expenses, arising out of or connected with Licensee's use of the Licensed

Trademarks. No approval by Licensor of any action by Licensee shall affect any right of Licensor to indemnification hereunder. Licensee acknowledges that it will have no claims against Licensor for any damage to property or injury to persons arising out of Licensee's use of the Licensed Trademarks. OTHER THAN FOR CLAIMS AGAINST LICENSEE FOR INDEMNIFICATION OR FOR MISUSE OR MISAPPROPRIATION OR INFRINGEMENT OF THE LICENSED TRADEMARKS, LICENSEE WILL NOT BE LIABLE TO LICENSOR FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE AGREEMENT.

8. Use of the Licensed Trademarks. Use of the Licensed Trademarks by Licensee pursuant to this Agreement shall inure solely to the benefit of Licensor. Licensee acknowledges and agrees that the Licensed Trademarks are the sole and exclusive property of Licensor and that Licensee shall not acquire any right, title, or interest in or to the Licensed Trademarks as a result of this Agreement (other than the licenses expressly granted it hereunder), and that all uses of the Licensed Trademarks by Licensee and all goodwill generated thereby inures to the benefit of Licensor. Licensee agrees to cooperate with Licensor in the prosecution of any trademark or copyright application that Licensor may desire to file for services or in the conduct of any litigation relating to the Licensed Trademarks. Licensee shall supply to Licensor reasonable samples, advertisements, financial information and similar material and, upon Licensor's request, shall provide evidence, give testimony and cooperate with Licensor as may reasonably be required in connection with any such application. Licensee agrees to assign any and all trademark or service mark applications (Federal or state) that it may have already filed for the Licensed Trademarks referred to herein. Licensor shall prepare the assignments at its own expense and Licensee shall execute them and return them to Licensor in a prompt fashion. Licensee shall not register any trademarks or service marks which include the Licensed Trademarks.

9. Term and Termination. So long as Licensee complies with all the terms and conditions of this Agreement, it shall continue in full force and effect for the Term of the Concession Agreement. In the event of a material breach of this Agreement by Licensee and a failure to cure same within thirty (30) days of written notice to Licensee, Licensor may terminate this Agreement immediately thereafter by mailing a written notice of termination to Licensee. Upon termination of this Agreement for any reason, Licensee shall immediately discontinue all use of the Licensed Trademarks.

Licensor may terminate this Agreement in the event that Licensor determines Licensee is using the Licensed Trademarks in a way that Licensor deems to be immoral, lewd, obscene or offensive to the educational image of Licensor. In the event that Licensor determines that Licensee has violated this provision, Licensor agrees to give Licensee the opportunity to correct the objectionable activities within thirty (30) days after sending Licensee written notice.

10. Bankruptcy. This Agreement shall immediately terminate upon bankruptcy, receivership, or assignment for the benefit of creditors of Licensee.

11. Severability. The provisions of this Agreement shall be severable, and if any provision of this Agreement shall be held or declared to be illegal, invalid, or unenforceable,

such illegality, invalidity, or unenforceability shall not affect any other provision hereof, and the remainder of this Agreement, disregarding such invalid portion, shall continue in full force and effect as though such void provision had not been contained herein. The parties agree that each party and its counsel has reviewed this Agreement and the normal rule of construction that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this Agreement.

12. Entire Agreement. This Agreement and the Concession Agreement contain the entire agreement between the parties hereto with respect to the subject matter hereof and supersedes and cancels all previous written or oral understandings, agreements, negotiations, commitments, or any other writings or communications in respect of such subject matter. In the event of any ambiguity or conflict between the terms hereof and the Concession agreement, the terms of the Concession Agreement will be governing and controlling. This Agreement may not be released, discharged, abandoned, changed, or modified in any manner except by an instrument in writing signed by each of the parties hereto.

13. Governing Law. This Agreement shall be governed by, and interpreted and enforced in accordance with, the laws in force in the State of Iowa (excluding any conflict of laws rule or principle which might refer such interpretation to the laws of another jurisdiction).

14. Waiver. Any waiver of, or consent to depart from, the requirements of any provision of this Agreement shall be effective only if it is in writing and signed by the party giving it, and only in the specific instance and for the specific purpose for which it has been given. No failure on the part of any party to exercise, and no delay in exercising, any right under this Agreement shall operate as a waiver of such right. No single or partial exercise of any such right shall preclude any other or further exercise of such right or the exercise of any other right.

15. Nature of Relationship. Nothing herein shall be construed to place the parties in a relationship of agency, partners, joint venturers, affiliate or employee, and neither party shall have the power to obligate or bind the other in any manner whatsoever.

16. Notices. All communications, notices, and exchanges of information contemplated herein or required or permitted to be given hereunder shall be given in accordance with Section 20.1 of the Concession Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the day and year first above written.

UNIVERSITY OF IOWA

By: _____
Name: _____
Title: _____

[_____]

By: _____

Name: _____

Title: _____

EXHIBIT A **LICENSED TRADEMARKS**

- 1) “UNIVERSITY OF IOWA”
- 2) University of Iowa Color Palette

Primary colors

The primary gold for the University of Iowa is the spot color **PMS 116 C**. As the industry standard, **Pantone recommended values** should be used for CMYK, HEX, and RGB color spaces to achieve the most desirable gold across print and digital platforms. Do not use PMS 116 U when printing on an uncoated stock, every effort should be made by vendors to match the PMS 116 C swatch. For process four-color printing, use the recommended CMYK values. For web and digital platforms, use the recommended HEX value. For a more dense black when printing with a four-color process, use the recommended rich black formula.



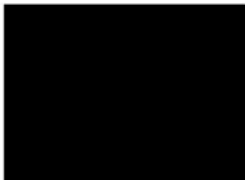
PMS 116 C

CMYK: 0 14 100 0

HEX: #FFCD00

RGB: 255 205 0

Madeira Thread: 910-1069 Classic Rayon #40



Black

CMYK: 0 0 0 100

HEX: #000000

Rich Black: 40 30 30 100

SCHEDULE 22

FORM OF MAIN CAMPUS WATER TREATMENT PLANT SUBLEASE

SUBLEASE

THIS SUBLEASE (this "Sublease") is made and entered into as of _____, 20____, by and between _____, a _____ ("Sublandlord") and the University of Iowa ("Subtenant").

Background

A. Sublandlord, as concessionaire, and Subtenant are parties to that certain Long-Term Lease and Concession Agreement for the University of Iowa Utility System dated _____, 20____ (as amended, restated, modified or otherwise supplemented from time to time in accordance with the terms thereof, the "Master Lease"), a copy of which is attached hereto as Exhibit B. Capitalized terms, unless otherwise defined herein, shall have the meaning set forth in the Master Lease.

B. Pursuant to the Master Lease, Sublandlord leases from Subtenant the Utility Facilities and the Utility System Land, including the Main Campus Water Treatment Plant located at 208 West Burlington Street, Iowa City, IA 52242, also known as University Building 0185.

C. Sublandlord desires to sublease to Subtenant a portion of the Water Plant consisting of approximately 3,000 square feet, as shown on Exhibit A attached hereto (the "Sublease Premises").

NOW, THEREFORE, in consideration of the mutual covenants and conditions herein contained, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

Terms

1. **SUBLEASE PREMISES.** For the rent and upon the agreements contained in this Sublease, Sublandlord subleases to Subtenant and Subtenant subleases from Sublandlord the Sublease Premises. Subtenant acknowledges and agrees that it shall take possession of the Sublease Premises in an "as-is" condition, without any warranty as to the condition thereof.
2. **TERM.** The term of this Sublease (the "Term") shall be fifty (50) years, commencing on the date hereof, unless terminated earlier pursuant to any provision hereof, provided that if the Master Lease terminates prior to the end of the Term, this Sublease shall be terminated as of the same date as the Master Lease.
3. **RENT.** The annual rent for the Term, including any extensions thereof, shall be One Dollar (\$1.00) (the "Rent"). Rent shall be payable for each year of the Term on or before the anniversary of the date hereof to Sublandlord at its address set forth in Section 18.

Subtenant shall have the right to prepay the annual rent at any time in Subtenant's sole discretion.

4. **UTILITIES AND SERVICES.** At no additional cost to Subtenant, Sublandlord shall furnish the following utilities and services to the Sublease Premises in at least the same quality and quantity as is being provided on the date hereof: (i) heating and air conditioning; (ii) electrical service; (iii) water and plumbing; and (iv) elevator service. If any of the foregoing services are interrupted, curtailed or stopped, Sublandlord shall use all best efforts to cause them to be restored as soon as reasonably practicable. If Sublandlord fails to commence such restoration within two (2) days and diligently complete such restoration, Subtenant may cause such restoration, and Sublandlord shall reimburse Subtenant for the costs thereof within thirty (30) days after receipt of an invoice therefor.
5. **USE OF PREMISES; ACCESS.** Subtenant shall have the right to occupy and use the Sublease Premises for any lawful purpose, including without limitation research and education purposes. Subtenant shall comply with all federal, state and municipal statutes, laws, ordinances, codes, orders, rules and regulations (collectively, "Laws") applicable to Subtenant's particular use or occupancy of the Sublease Premises, provided that Subtenant shall not be obligated and Sublandlord shall promptly perform any alteration, improvement or replacement required to be performed in order to cause the Sublease Premises or the Main Campus Water Treatment Plant to comply with Laws. Subtenant shall have access to the Sublease Premises and Common Areas twenty-four (24) hours per day, seven (7) days per week, and three hundred sixty-five (365) days per year. Except as expressly set forth herein, Subtenant shall not have the right to use or access any space in the Main Campus Water Treatment Plant pursuant to this Sublease other than the Sublease Premises and the Common Areas, and such use and access by Subtenant shall not interfere with Sublandlord's business operations in the Main Campus Water Treatment Plant. For the avoidance of doubt, Sublandlord shall have the right, subject to the terms and conditions of the Master Lease, to alter or improve the Main Campus Water Treatment Plant (other than the Sublease Premises), provided such alterations or improvements do not materially, adversely affect Subtenant's use or occupancy of the Sublease Premises.
6. **COMMON AREAS.** Subtenant shall have the nonexclusive right, in common with other occupants of the Main Campus Water Treatment Plant, to use the public and common areas of the Main Campus Water Treatment Plant that are reasonably necessary for Subtenant's use of and access to the Sublease Premises, which shall include, but are not limited to, the Main Campus Water Treatment Plant loading dock, sidewalks, stairwells, restrooms and hallways (collectively, the "Common Areas"). Sublandlord shall operate, manage, equip, light, repair and maintain the Common Areas for their intended purposes in such manner as Sublandlord shall in Sublandlord's reasonable discretion determine consistent with other similarly situated properties so long as such actions do not adversely affect the overall character of the Common Areas or substantially adversely affect Subtenant's rights to use the Common Areas.

7. **IMPROVEMENTS.** Subtenant shall have the right, without the consent of Sublandlord, to make any alterations, modifications, changes or improvements to the Sublease Premises (collectively, "Improvements") deemed appropriate or desirable by Subtenant, provided that Subtenant must obtain Sublandlord's prior written consent (which consent shall not be unreasonably withheld, conditioned or delayed) for any Improvements that are likely to materially and adversely affect the structural integrity or the utility or safety systems of the Main Campus Water Treatment Plant (collectively, "Structural Improvements"), and provided further that, upon written notice from Subtenant, Sublandlord agrees to work cooperatively and promptly with Subtenant to assist Subtenant in completing any Structural Improvements consented to by Sublandlord. Subtenant shall have the option, but not the obligation, to remove any Improvements at the expiration or termination of this Sublease, provided that Subtenant shall reasonably repair any damage caused by such removal. Subtenant shall have the right to use all existing fiber optic or other conduits in the Main Campus Water Treatment Plant, provided that Subtenant's use shall not unreasonably interfere with Sublandlord's use thereof.
8. **SIGNAGE.** Subtenant shall have the right to install (a) any signage in the Sublease Premises, without the consent of Sublandlord, (b) elsewhere in Main Campus Water Treatment Plant such directory signage as Subtenant determines is reasonably necessary, provided such signage shall not interfere with Sublandlord's operations.
9. **REPAIRS, MAINTENANCE AND SERVICE.**
- (a) Sublandlord shall maintain and promptly make all repairs, improvements and replacements necessary to keep the Main Campus Water Treatment Plant (including without limitation the roof, structural elements, Common Areas, facilities, elevators, HVAC, plumbing, life safety and support systems, sprinklers, and generators) in good repair and condition. Sublandlord's obligations hereunder shall include landscaping, ice and snow removal and janitorial service in the Common Areas. Sublandlord shall use reasonable efforts to perform its repair and maintenance obligations at such times and in such manner so as not to unreasonably disturb Subtenant's operations in the Sublease Premises. If following notice from Subtenant of needed repairs or maintenance, Sublandlord fails to initiate them within ten (10) days after receipt of written notice thereof and diligently complete such repairs or maintenance, Subtenant may perform such repairs or maintenance and upon completion, Sublandlord shall reimburse Subtenant for the costs thereof within thirty (30) days after receipt of an invoice therefor.
- (b) Subtenant shall be responsible for maintenance and repair of (i) except for Sublandlord's obligations under Section 9(a), the Sublease Premises, including any janitorial services for the Sublease Premises and (ii) notwithstanding anything to the contrary contained in Section 9(a), building facilities and systems which are solely located within the Sublease Premises and exclusively serve the Sublease Premises.

10. **DAMAGE OR DESTRUCTION.** If in the reasonable opinion of Subtenant, the Water Plant or Sublease Premises are so damaged or destroyed by fire, flood, earthquake, the elements, casualty, war, riot, public disorder, acts authorized or unauthorized by the government (including a condemnation proceeding) or any other cause or happening so as to render the Sublease Premises unusable for Subtenant's operations, as determined by Subtenant acting in good faith, this Sublease shall terminate upon written notice from Subtenant delivered within thirty (30) days after such casualty. If Subtenant does not terminate this Lease in accordance with this Section 10, Sublandlord shall promptly restore the Sublease Premises to the condition that existed prior to such casualty.
11. **CONDEMNATION.** Subtenant shall have the right to terminate this Sublease if a part of the Sublease Premises or Water Plant is taken by exercise of the power of eminent domain during the Term so as to render the Sublease Premises unusable for Subtenant's operations, as determined by Subtenant acting in good faith. Subtenant shall exercise such termination right by giving written notice to the other within thirty (30) days after the date of such taking. If Subtenant exercises such right to terminate this Lease in accordance with this Section 11, this Sublease shall terminate as of the date of such taking. If Subtenant does not exercise such right to terminate this Sublease in accordance with this Section 11, this Sublease shall terminate as to the portion of the Sublease Premises so taken as of the date of such taking and shall remain in full force and effect as to the portion of the Sublease Premises not so taken. If all of the Sublease Premises is taken by exercise of the power of eminent domain during the Term, this Sublease shall terminate as of the date of such taking.
12. **INSURANCE.**
- (a) At all times during the Term, Sublandlord shall maintain the Concessionaire Required Coverages in accordance with the terms and conditions of Section 13 of the Master Lease.
 - (b) Subtenant shall maintain the University Required Coverages in accordance with the terms and conditions of Section 13 of the Master Lease.
13. **WAIVER OF SUBROGATION.** Sublandlord hereby expressly waives any right of recovery against Subtenant. Sublandlord shall place Sublandlord's insurance with companies that will agree to acknowledge, by endorsement to the policies of the insured if necessary, that the insurance will not be invalidated should the insured waive in writing prior to a loss any or all right of recovery against any party for loss occurring to the property described therein.
14. **DEFAULT.** It shall be a "Default" by Subtenant under this Sublease if Subtenant fails to perform any provision of this Sublease and such failure is not cured within thirty (30) days after written notice thereof is given to Subtenant (or promptly if the failure involves a hazardous or dangerous condition), provided that in the event such matter does not involve a hazardous or dangerous condition and cannot be reasonably cured within such thirty (30) day period despite Subtenant's diligent efforts then Subtenant shall be permitted such reasonable time as reasonably required to cure such default provided that

Subtenant has commenced such cure within the thirty (30) day period and diligently prosecutes such cure to completion. If a Default by Subtenant occurs, Sublandlord, at Sublandlord's sole option, may, without notice, terminate this Sublease, or without notice and without terminating this Sublease, reenter and retake possession of the Sublease Premises by appropriate legal process, and in any such event, Sublandlord may dispossess Subtenant and its property from the Sublease Premises by appropriate action.

15. **SUBORDINATION.**

- (a) This Sublease is and shall be expressly subject and subordinate at all times to the Master Lease; provided, however, that the terms and conditions of the Master Lease shall not apply to this Sublease. To the extent that Subtenant has any rights or obligations under the Master Lease with respect to the Water Plant or the Sublease Premises, this Sublease shall not modify, amend or abrogate any such rights or obligations. Subtenant covenants and agrees that it will not take any action that would cause Sublandlord to be in default under the Master Lease, provided that, if it does so, Subtenant agrees that it shall not declare Sublandlord in default under the Master Lease.
- (b) On or before the execution of this Sublease, Sublandlord shall obtain a subordination, non-disturbance and attornment agreement for the benefit of Subtenant in recordable form and reasonably acceptable to Subtenant ("SNDA") from the holder of the leasehold mortgage. Throughout the Term and in order for this Sublease to be subordinate to any future leasehold mortgage or other method of financing or refinancing, Sublandlord shall obtain a SNDA from any future holder of any leasehold mortgage or other method of financing or refinancing. Upon obtaining a SNDA from the holder of such leasehold mortgage or other method of financing or refinancing, Subtenant agrees that its rights hereunder are subordinate to the lien of any leasehold mortgage or any other method of financing or refinancing now or hereafter placed against the Sublease by Sublandlord and to any and all renewals, replacements, consolidations and extensions thereof.

16. **SURRENDER.** Upon termination of the Term or Subtenant's right to possession of the Sublease Premises, Subtenant shall return the Sublease Premises to Sublandlord in substantially the same order and condition as existed on the commencement of the Term, ordinary wear and damage by fire or other casualty excepted. Subtenant shall remove its furniture, equipment, movable trade fixtures and all other items of personal property from the Sublease Premises prior to the termination of the Term or Subtenant's right to possession of the Sublease Premises. If Subtenant does not remove such items, Subtenant shall be conclusively presumed to have conveyed the same to Sublandlord without further payment or credit by Sublandlord to Subtenant.

17. **NOTICES.** All notices, other communications and approvals required or permitted by this Sublease shall be in writing, shall state specifically that they are being given pursuant to this Sublease and shall be delivered, sent by facsimile (with hard copy sent via mail),

nationally recognized overnight courier service, certified or registered mail (return receipt requested and postage prepaid), addressed as follows:

To Subtenant: University of Iowa
Business Manager's Office
301 University Services Building
Iowa City, Iowa 52242
Attention: David Kieft
david-kieft@uiowa.edu
Fax: _____

with a copy to: University of Iowa
Office of the General Counsel
5 West Jefferson St., 120 Jessup Hall
Iowa City, IA 52242
Attn: _____
Fax: _____

To Sublandlord: _____

with a copy to: _____

or such other persons or addresses as either party hereto may from time to time designate by notice to the other. A notice, other communication or approval shall be deemed to have been sent and received (i) on the day it is delivered, or if such day is not a Business Day or if the notice is received after ordinary office hours (time of place of receipt), the notice, other communication or approval shall be deemed to have been sent and received on the next Business Day, or (ii) on the 4th Business Day after mailing if sent by U.S. registered or certified mail. Each party shall use commercially reasonable efforts to deliver an electronic copy of each notice, other communication or approval provided in accordance with the foregoing via email at the email addresses listed above.

18. **TERMINATION OPTION; REDUCTION OPTION.** Subtenant shall have the option to terminate this Sublease at any time by providing at least thirty (30) days' prior written notice to Sublandlord of such election, in which case following the effective date of such termination both parties shall be released from all obligations under this Sublease except to the extent such obligation expressly survives the termination of this Sublease.

Subtenant shall have the option, one or more times during the Term, to reduce the size of the Sublease Premises by providing at least thirty (30) days' prior written notice to Sublandlord of such election and the space which will be removed from the Sublease Premises on the effective date of such election (the "Reduction Space") and this Sublease shall be deemed terminated with respect to the Reduction Space on such effective date, provided that Subtenant shall surrender such space in accordance with the requirements of Section 16.

19. **QUIET ENJOYMENT.** Sublandlord hereby covenants and agrees that Subtenant shall at all times during the continuance hereof have peaceable and quiet enjoyment and possession of the Sublease Premises without hindrance from Sublandlord or any person or persons lawfully claiming the Sublease Premises.
20. **SUB-SUBLETTING.** Subtenant shall have the right, without the prior written consent of Sublandlord, to sub-sublease all or part of the Sublease Premises, and Subtenant shall use commercially reasonable efforts to provide Sublandlord written notice after the effectiveness of such sub-sublease.
21. **GROSS LEASE INTENDED.** It is the intention of the parties that Landlord shall receive the Rent specified in Section 3 as a gross rental, free from all taxes, charges, expenses, damages and deductions of every description, and that Landlord shall pay all taxes, charges, expenses, damages and deductions which, except for this Agreement, would have been chargeable against the Sublease Premises or Subtenant.
22. **SUCCESSORS AND ASSIGNS.** The terms, conditions and agreements of this Sublease and all rights and obligations herein given to or imposed upon the parties hereto shall bind and inure to the benefit of the respective heirs, executors, administrators, successors and assigns of the parties hereto.
23. **BROKER'S COMMISSION.** Each party represents to the other that it has not dealt with any broker in connection with this Sublease and agrees to indemnify and hold such other party harmless from all damages, liabilities and expenses (including reasonable attorneys' fees) arising from any claims or demands of any broker or brokers or finders for any commission alleged to be due such broker or brokers or finders in connection with its participating in effecting this Sublease.
24. **MISCELLANEOUS.**
 - (a) **Governing Law.** This Sublease shall be governed by, and interpreted and enforced in accordance with, the Laws in force in the State of Iowa (excluding any conflict of laws rule or principle which might refer such interpretation to the Laws of another jurisdiction).
 - (b) **Further Acts.** The parties hereto shall do or cause to be done all such further acts and things as may be reasonably necessary or desirable to give full effect to this Sublease. Without limiting the foregoing, each party hereto will, at any time and from time to time, execute and deliver or cause to be executed and delivered such further instruments and assurances and take such further actions as may be

reasonably requested by the other party hereto in order to cure any defect in the execution and/or delivery of this Sublease.

- (c) Independent Provisions. Any provision of this Sublease which is contrary to a Law, which the parties cannot legally waive or contract against (such, for example, as labor laws and anti-trust laws) is and shall be void and not binding on either party hereto; provided, however, that the invalidity or unenforceability of any provision of this Sublease shall not affect or impair any other provision of this Sublease.
- (d) Entire Agreement. This Sublease and the Master Lease represents the complete agreement between Sublandlord and Subtenant with respect to Subtenant's subleasing of the Sublease Premises. No modification or amendment of or waiver under this Sublease shall be binding upon Sublandlord or Subtenant unless in writing signed by Sublandlord and Subtenant.
- (e) Interest. Any amount payable under this Sublease and not paid when due shall bear interest at a variable nominal rate per annum equal on each day to the Bank Rate then in effect, from the date such payment is due until payment and both before and after judgment.
- (f) No Partnership or Third Party Beneficiaries. Except as expressly provided herein to the contrary, nothing contained in this Sublease shall constitute or be deemed to create a partnership, joint venture or principal and agent relationship between Sublandlord and Subtenant, nor shall any term or provision hereof be construed in any way to grant, convey or create any rights or interests to any person not a party to this Sublease.
- (g) Counterparts. This Sublease may be executed in any number of counterparts which, taken together, shall constitute one and the same agreement. This Sublease shall be effective when it has been executed by each party hereto and delivered to both parties hereto. To evidence the fact that it has executed this Sublease, a party hereto may send a copy of its executed counterpart to the other party hereto by facsimile or electronic transmission. Such party hereto shall be deemed to have executed and delivered this Sublease on the date it sent such facsimile transmission. In such event, such party hereto shall forthwith deliver to the other Party an original counterpart of this Sublease executed by such party hereto.
- (h) Amendment. This Sublease may be amended, changed or supplemented only by a written agreement signed by the Parties.

[remainder of page intentionally blank]

IN WITNESS WHEREOF, the parties hereto have executed this Sublease as of the day and year first above written.

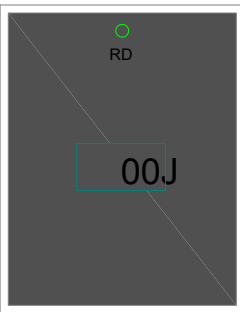
[CONCESSIONAIRE]

By: _____
Name: _____
Title: _____

UNIVERSITY OF IOWA

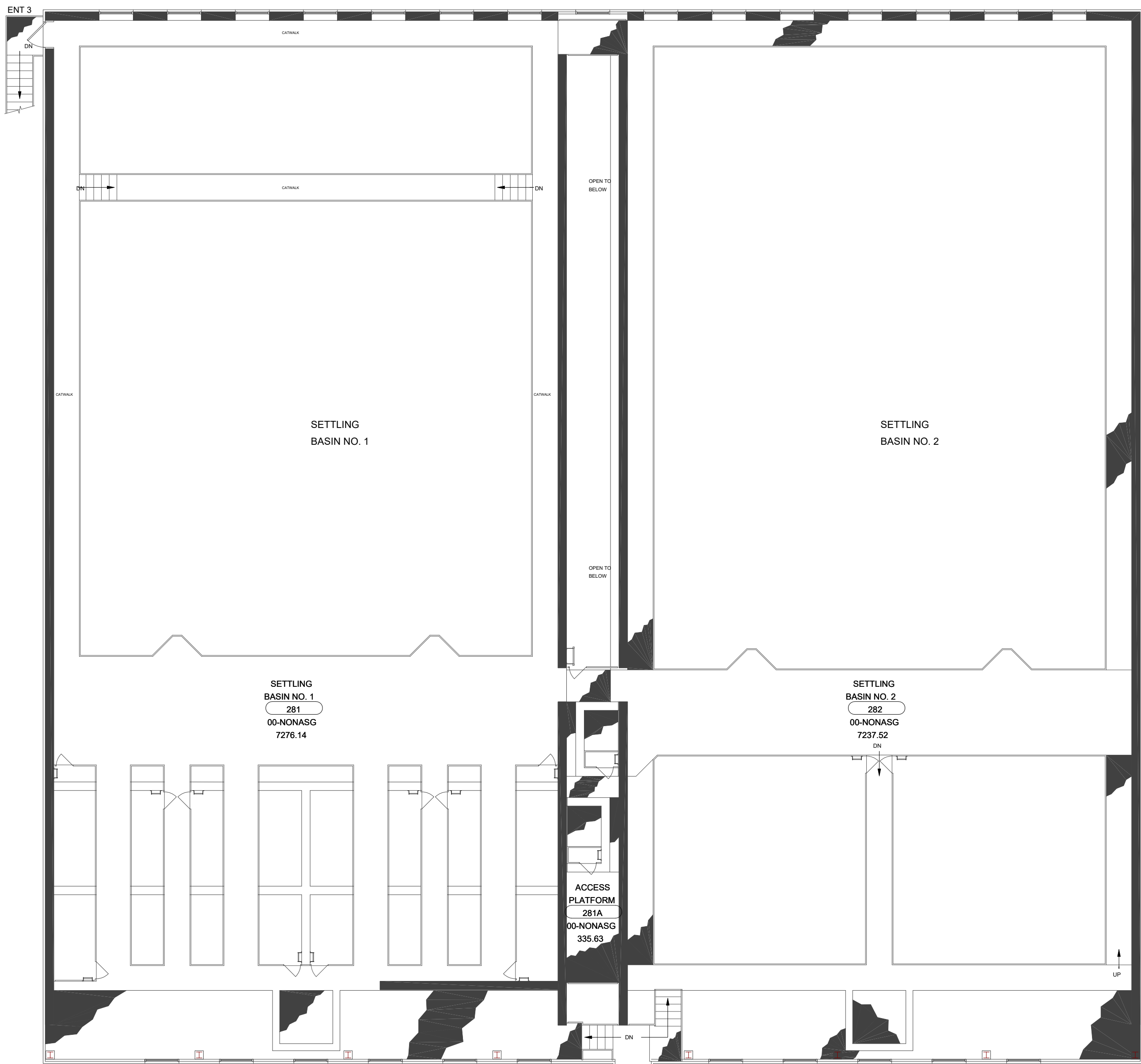
By: _____
Name: David Kieft
Title: University Business Manager

EXHIBIT A
SUBLEASE PREMISES



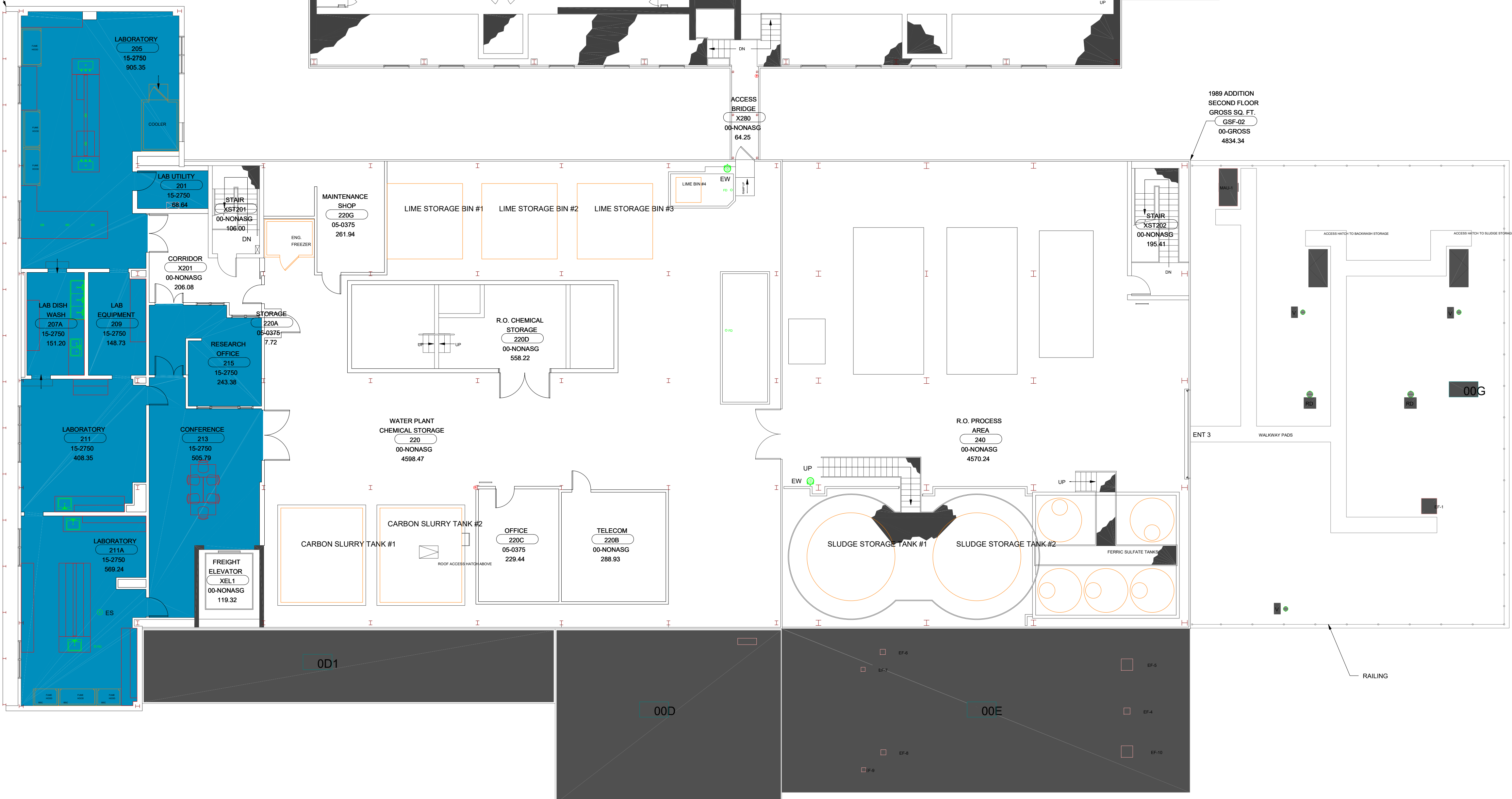
PUMPHOUSE ROOF

1989 SETTLING BASIN
LEVEL 2 ADDITION
GROSS SQ. FT.
GSF-02
00-UNCLASS
16681.15



	Description	Net Area (S.F.)
●	Sublease Premises	3,000.68

1960 ORIGINAL
SECOND FLOOR
GROSS SQ. FT.
GSF-03
00-GROSS
9960.33



The University of Iowa
WATER PLANT
SECOND FLOOR

Bldg. No. 0185 03/08/2019 File: 185AR02



SCALE:

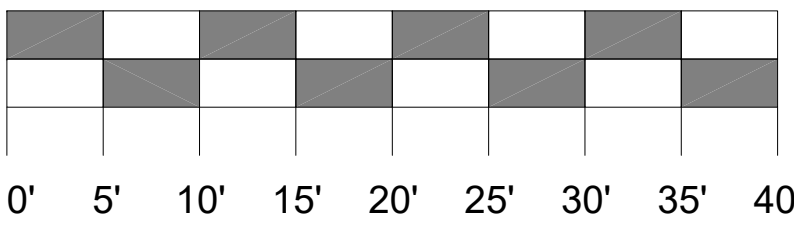


EXHIBIT B
MASTER LEASE

SCHEDULE 23

CONTROL ROOM

[SEE ATTACHED]

ENERGY
CONTROL CENTER

312

05-0380

492.55

SCHEDULE 24
INDEPENDENCE ROAD ANNEX LEASE

[SEE ATTACHED]

SECOND AMENDMENT TO AMENDED AND RESTATED LEASE AGREEMENT

THIS SECOND AMENDMENT TO AMENDED AND RESTATED LEASE AGREEMENT (this "Amendment") is entered into effective on the 14 day of March, 2017 by and between KGRD GREEN BAY, LLC ("Landlord") and BOARD OF REGENTS, STATE OF IOWA, FOR THE USE AND BENEFIT OF THE UNIVERSITY OF Iowa ("Tenant").

WHEREAS, Landlord and Tenant previously entered into that certain Amended and Restated Lease Agreement dated December 9, 2015, as amended by that certain Amendment to Amended and Restated Lease Agreement entered into effective as of September 28, 2016 (as amended, the "Existing Lease") for the lease of a parcel of land and improvements thereon located at 2515 Independence Road, Iowa City, IA 52240 (collectively, the "Premises"); and

WHEREAS, Landlord and Tenant desire to amend the Existing Lease as provided herein.

NOW THEREFORE, Landlord and Tenant agree as follows:

1. The parties desire to clarify the following terms and provisions of the Existing Lease:

(a) The definition of "Expiration Date" set forth in the Basic Lease Information of the Existing Lease is hereby deleted and replaced with the following:

"Expiration Date" means July 31, 2031, unless one or more of the extension options set forth in Section 2.1 are exercised, and in that case the last day of the last full calendar month in the respective renewal Term".

(b) The second sentence of Section 2 of the Existing Lease is hereby deleted and replaced with the following:

"The "Commencement Date" means December 9, 2015, notwithstanding the fact that Base Rent for the entire Building did not commence until August 1, 2016 (the "Rent Commencement Date")".

(c) The capitalized term "Lease Year" means with respect to the first Lease Year, the period commencing on the Rent Commencement Date (i.e., August 1, 2016) and ending at midnight on the last day of the twelfth (12th) full consecutive calendar month following the month in which the Rent Commencement Date occurred (i.e., July 31, 2017), and each succeeding twelve (12) month period during the Term.

(d) The capitalized term "Renewal Period" means the first or second 5-year extension period, as applicable, referenced in Section 2.1 of the Lease.

(e) The first and second paragraphs of Section 3.1 of the Existing Lease, which set forth the years in which CPI increases will occur, is hereby deleted in its entirety and replaced as with the following:

"Tenant agrees to pay to Landlord the Base Rent set forth in the Basic Lease Information, without prior notice or demand, on the first day of each and every calendar month during the Term.

The Base Rent shall increase effective on the first day of each of Lease Years 4, 7, 10 and 13 and at the beginning of each exercised Renewal Period, by an amount equal to the then expiring Base Rent rate, multiplied by one plus the percentage increase in CPI (hereinafter defined). The percentage increase in CPI shall mean the percentage increase in the Consumer Price Index for All Urban Consumers- U.S. Cities Average - All Items (the "CPI") published by the United States Department of Labor, Bureau of Labor Statistics (1982-84 = 100) from the calendar month of May prior to the first day of the applicable Lease Year in which the Base Rent was last set or increased (i.e., Lease Years 1, 4, 7, 10 and 13 for the initial Term, and thereafter, if the extensions referenced in Section 2.1 of the Lease are exercised, Lease Years 16 (for the first Renewal Period) and 21 (for the second Renewal Period)) (the "Base Index") to the calendar month of May prior to the first day of the Lease Year for which increase in Base Rent is being determined (the "Comparison Index"). By way of example, because the Rent Commencement Date is August 1, 2016, the Base Index and Comparison Index for the Base Rent increase effective August 1, 2019 would be May, 2016 and May 2019, respectively. Using the Base Index and the Comparison Index, Landlord shall determine the percentage increase in the CPI. If at any time the CPI is no longer published or its manner of calculation is materially changed, Landlord may substitute such substitute index, reconciled to the month three months prior to the Rent Commencement Date, as reasonably reflects changes in the purchasing power of the dollar. Landlord shall notify Tenant of the new Base Rent rate, the monthly payment, and the annual Base Rent, and shall with such notice, provide to Tenant a statement in writing as to the amount of the increase and showing the Base Index and the Comparison Index; provided, however, that Landlord's failure to deliver such notice shall not affect Tenant's obligation to pay such Base Rent. The Base Rent rate stated in Landlord's notice shall then be the Base Rent for until the next Base Rent adjustment. In no event shall the Base Rent decrease during any Term of this Lease".

(f) Other than Alterations, Tenant is not permitted to make any alterations, improvements or changes to the Premises without the prior written consent of Landlord.

(g) The capitalized term "Subtenant" means a subtenant approved by Landlord in accordance with terms of Section 13. The capitalized term "Transfer"

means a transfer approved by Landlord in accordance with the terms of Section 13. The capitalized term "Transferee" means a transferee approved by Landlord in accordance with the terms of Section 13.

(h) The capitalized term "Property" means the "Real Estate".

(i) The last sentence of Section 28 of the Existing Lease (which provides: "*In no event shall Tenant be permitted to exercise or accept its right of first refusal under this Section 28 unless it also exercises a right of first on less than all of the Building and the Real Estate*") is not relevant and accordingly is hereby deleted. Any reference to Paragraph 29 in Section 28 shall be deemed to refer to Section 28.

(j) The last sentence of Section 29 of the Existing Lease (which provides: "*In no event shall Tenant be permitted to exercise its purchase option under this Section 29 unless it or its affiliate also exercises any purchase option on any other space in the Building and Real Estate*") is not relevant and accordingly is hereby deleted.

2. The Board of Regents and University of Iowa agree that the University of Iowa shall have authority to execute and deliver agreements and documents on behalf of the Tenant, provided such documents do not materially alter the substantive terms of the Lease or are otherwise specifically authorized in this paragraph. The documents that the University of Iowa may unilaterally execute and deliver on behalf of the Tenant include, but are not limited to, that certain Subordination, Non-Disturbance and Attornment Agreement entered into by and between the University of Iowa and American National Life Insurance Company of New York, a New York insurance company, dated on or about the date hereof, that certain Tenant Estoppel Certificate in favor of Landlord, its successors and/or assigns, along with its lender, and their respective successors and/or assigns (collectively, the "Parties") dated on or about the date hereof, that certain Certificate Regarding Right of First Refusal in favor of the Parties dated on or about the date hereof, and such other certificates, affidavits, estoppels, and subordination, non-disturbance and attornment agreements that are requested by Landlord from time to time.

3. All defined terms contained in this Amendment shall have those meanings ascribed to them in the Existing Lease unless otherwise defined herein. As used herein, the term "Lease" shall mean the Existing Lease, as amended by this Amendment and as hereafter amended.

4. Except as expressly set forth above, the execution, delivery and effectiveness of this Amendment shall not operate as a modification of any right, power or remedy under the Lease or any document related thereto. Except as expressly set forth above, the text of the Lease and all related documents shall remain unchanged and in full force and effect and each of the parties hereby ratifies and confirms its obligations there under.

5. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same Agreement. An electronic signature shall be as effective as an actual signature.

SIGNATURE PAGE TO FOLLOW

IN WITNESS WHEREOF, Landlord and Tenant have executed this Amendment effective as of the date first above written.

TENANT:

BOARD OF REGENTS, STATE OF IOWA

By: 

Robert Donley, Executive Director

UNIVERSITY OF IOWA

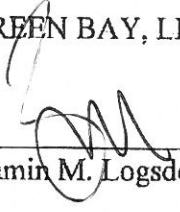
By: 

David W. Kieft, University Business Manager

[signatures continue on following page]

LANDLORD:

KGRD GREEN BAY, LLC

By:  _____
Benjamin M. Logsdon, Manager

**AMENDMENT TO
AMENDED AND RESTATED LEASE AGREEMENT**

THIS AMENDMENT TO AMENDED AND RESTATED LEASE AGREEMENT (this "Amendment") is entered into effective as of the 28th day of September, 2016 by and between KGRD GREEN BAY, LLC ("Landlord") and BOARD OF REGENTS, STATE OF IOWA, FOR THE USE AND BENEFIT OF THE UNIVERSITY OF IOWA ("Tenant").

WHEREAS, Landlord and Tenant previously entered into that certain Amended and Restated Lease Agreement dated December 1, 2015 (the "Lease") for approximately 13.25 acres of land located at 2515 Independence Road, Iowa City, Iowa and improvements located thereon (the "Premises"); and

WHEREAS, Landlord and Tenant desire to amend the Lease as provided herein.

NOW THEREFORE, Landlord and Tenant agree as follows:

1. The parties agree that the "Premises" Section of the Basic Lease Information is deleted and restated as follows:

Premises: From the Commencement Date until July 15, 2016, the Premises shall consist of 24,817 square feet of the Building, which area is depicted and described on attached Exhibit B, and the other reasonable and necessary portions of the improvements located on the Real Estate, (the "Initial Rented Area"). From the July 15, 2016 until August 1, 2016, the Premises shall consist of 84,917 square feet of the Building, which area is depicted and described on attached Exhibit B, and the other reasonable and necessary portions of the improvements located on the Real Estate, (the "Secondary Rented Area"). From August 1, 2016 and continue for the remainder of the Term, the Premises shall consist of the full Building, 140,917 square feet, and all other improvements located on the Real Estate, all as further depicted on Exhibit B (the "Full Rented Area" and collectively with the Initial Rented Area, Secondary Rented Area, the "Premises").

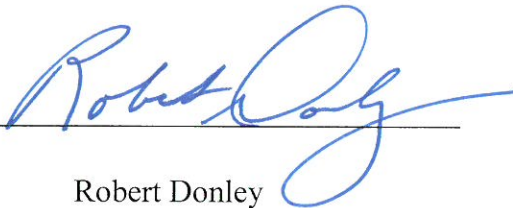
2. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same Agreement. An electronic signature shall be as effective as an actual signature.

[SIGNATURE PAGE TO FOLLOW]

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first above written.

TENANT:

BOARD OF REGENTS, STATE OF
IOWA

By: 


Name: Robert Donley

Title: Executive Director

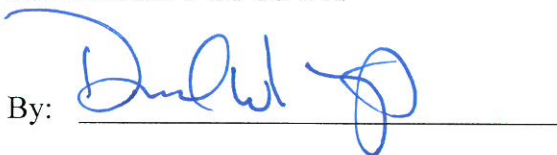
Date: 9/28/16

LANDLORD:

KGRD GREEN BAY, LLC

By: 
Benjamin M. Logsdon
Its: Manager

UNIVERSITY OF IOWA

By: 

Name: David W. Kieft

Title: University Business Manager

Date: 9/22/16

**AMENDED AND RESTATED
LEASE AGREEMENT**

between

KGRD Green Bay, LLC
as "**Landlord**"

and

Board of Regents, State of Iowa, for the Use and Benefit of the University of Iowa
as "**Tenant**"

BASIC LEASE INFORMATION

Lease Date: For identification purposes only, the date of this Lease is December 9, 2015

Landlord: KGRD Green Bay, LLC

Tenant: Board of Regents, State of Iowa, for the Use and Benefit of the University of Iowa

Real Estate: Lot containing approximately 13.25 acres and legally described on Exhibit A.

Building: A building containing approximately 140,917 square feet and other improvements located on the Real Estate.

Premises: From the Commencement Date until July 1, 2016, the Premises shall consist of 24,817 square feet of the Building, which area is depicted and described on attached Exhibit B, and the other reasonable and necessary portions of the improvements located on the Real Estate, (the "Initial Rented Area"). From the July 1, 2016 until October 1, 2016, the Premises shall consist of 84,917 square feet of the Building, which area is depicted and described on attached Exhibit B, and the other reasonable and necessary portions of the improvements located on the Real Estate, (the "Secondary Rented Area"). From October 1, 2016 and continue for the remainder of the Term, the Premises shall consist of the full Building, 140,917 square feet, and all other improvements located on the Real Estate, all as further depicted on Exhibit B (the "Full Rented Area" and collectively with the Initial Rented Area, Secondary Rented Area, the "Premises").

Term: The Term shall commence on the Commencement Date (as defined in Section 2 below) and continue until the Expiration Date (as defined below). The initial term and any or all exercised renewal terms shall, individually, and collectively, be considered a "Term" under this Lease.

TI Completion Date: The earlier of the (a) date of issuance of the Certificate of Occupancy or similar governmental authorization to occupy the Secondary Rented Area; or (a) the date upon which the Tenant Improvements are Substantially Complete (as defined in the Tenant Improvement Rider) and the Tenant is materially occupying the Secondary Rented Area.

Expiration Date: October 1, 2031, unless one or more of the extension options set forth in Section 2.1 are exercised, and in that case the last day of the last full calendar month in the respective renewal Term.

Base Rent: Annual Base Rent will be equal to \$3.75 per square foot, subject to adjustment for increases in CPI as provided in Section 3.1. The Base Rent is payable based upon the square footage of the

Premises, as the same is increased from time to time as provided under "Premises" above.

Tenant's Share of Operating Costs:

Tenant shall pay its prorata share of actual Operating Costs of the Building and the Real Estate.

Landlord's Address for Payment of Rent and Notices:

KGRD Green Bay, LLC
1805 State Street
Suite 101
Bettendorf, Iowa 52722

Tenant's Address for Notices:

University of Iowa Business Manager
University of Iowa
301 USB
Iowa City, IA 52242

Landlord's Broker:

None

Exhibits:

Exhibit A:	The Real Estate
Exhibit B:	The Building and the Premises
Exhibit C:	Tenant Improvement Rider
Exhibit D:	Landlord Work

The Basic Lease Information set forth above ("**Basic Lease Information**") is part of the Lease. In the event of any conflict between any provision in the Basic Lease Information and the Lease, the Lease shall control.

THIS AMENDED AND RESTATED LEASE AGREEMENT ("**Lease**") is made as effective of the Lease Date set forth in the Basic Lease Information, by and between the Landlord identified in the Basic Lease Information ("**Landlord**"), and the Tenant identified in the Basic Lease Information ("**Tenant**"). Landlord and Tenant hereby agree as follows:

This Amended and Restated Lease replaces in its entirety the Lease Agreement between the parties previously entered into for the Premises.

1. **PREMISES.** Landlord hereby leases to Tenant, and Tenant hereby leases from Landlord, upon the terms and subject to the conditions of this Lease, the Premises, as the same is defined and increased from time to time as provided the Basic Lease Information above. The Premises shall include non-exclusive use of the parking lot serving the Building and other improvements located on the Real Estate.

2. **TERM; POSSESSION.** The term of this Lease (the "**Term**") shall commence at 12:01 a.m. on the **Commencement Date** and, unless sooner terminated, shall expire at 11:59 p.m. on the Expiration Date set forth in the Basic Lease Information (the "**Expiration Date**"). The "**Commencement Date**" shall be the earlier of (i) December 9, 2015, or (ii) the date upon which Tenant, with Landlord's written permission, actually occupies the Premises.

2.1 **Extension Option.** Landlord grants to Tenant, the right and option to renew this Agreement and extend the Term for two (2) additional periods of five (5) years at a Base Rent rate as provided below in Section 3, subject to and on all of the terms and conditions contained in this Lease. The options must be exercised by giving to Landlord written notice of the exercise not less than 180 days before the end of the then current Lease Term, but Tenant shall in no event be entitled to renew the Term of this Lease, even though the notice be timely given, unless Tenant shall have timely performed all of its obligations under this Lease, and shall not be in default in the performance of any such obligations on the date of the expiration of the then current Term of this Lease (subject to any applicable grace or cure periods).

3. **RENT.**

3.1 **Base Rent and Operating Costs.** Tenant agrees to pay to Landlord the Base Rent set forth in the Basic Lease Information, without prior notice or demand, on the first day of each and every calendar month during the Term, except that base rent for any partial month at the beginning of the Term shall be paid on the Commencement Date.

The Base Rent shall increase effective on the first day of each of Lease Years 4, 7, 10 and 13 and at the beginning of each exercised Renewal Period, by an amount equal to the then expiring Base Rent rate, multiplied by one plus the percentage increase in CPI. The percentage increase in CPI shall mean the percentage increase in the Consumer Price Index for All Urban Consumers - U.S. Cities Average - All Items (the "CPI") published by the United States Department of Labor, Bureau of Labor Statistics (1982-84 = 100) from the third full calendar month prior to the first day of the applicable Lease Year in which the Base Rent was last set or increased (i.e., Lease Years 1, 4, 7, 10 (for the first Renewal Period) and 13 (for the second Renewal Period)) (e.g., if the first day of the applicable Lease Year is January 1, the Base Index month would be October of the preceding year) (the "Base Index") to the third full calendar month prior to the first day of the Lease Year for which increase in Base Rent is being determined (the "Comparison Index"). By way of example, if the Commencement Date is December 1, 2015, the Base Index and Comparison Index for the Base Rent increase effective December 1, 2018 would be September, 2015 and September 2018, respectively. Using the Base Index and the Comparison Index, Landlord shall determine the percentage increase in the CPI. If at any time the CPI is no longer published or its manner of

calculation is materially changed, Landlord may substitute such substitute index, reconciled to the month three months prior to the Commencement Date, as reasonably reflects changes in the purchasing power of the dollar. Landlord shall notify Tenant of the new Base Rent rate, the monthly payment, and the annual Base Rent, and shall with such notice, provide to Tenant a statement in writing as to the amount of the increase and showing the Base Index and the Comparison Index. The Base Rent rate stated in Landlord's notice shall then be the Base Rent for until the next Base Rent adjustment. In no event shall the Base Rent decrease during any Term of this Lease.

The Base Rent is subject to further adjustment in the event Tenant Improvements are performed as provided in the Section 5.1 below and the Tenant Improvement Rider, if the same is entered into.

In addition to Base Rent, Tenant agrees to pay, as Additional Rent, share (as defined in the Basic Lease Information") of the Operating Costs and Taxes as defined and calculated in Section 3.2 below.

3.2 Additional Rent.

(a) Definitions.

(1) **"Operating Costs"** means all reasonable, actual and necessary out-of-pocket costs incurred by Landlord directly attributable to managing, operating, maintaining and repairing the Property as determined under generally accepted accounting principles consistently applied, including, but not limited to, all costs, expenditures, fees and charges for: (A) operation, maintenance and repair of the Property or the Building Systems (as defined below) (including maintenance, repair and replacement of glass, the roof covering or membrane, and landscaping); (B) utilities and services not separately metered and paid for by Tenant directly to the service provider, and associated supplies and materials; (C) reasonable compensation (including employment taxes and fringe benefits) for persons who perform duties in connection with the operation, management, maintenance and repair of the Property, such compensation to be appropriately allocated for persons who also perform duties unrelated to the Property (such rate of compensation to be provided to Tenant upon request); (D) property insurance (including coverage for terrorism, earthquake and flood if carried by Landlord), liability, loss of rental income and other insurance relating to the Property and liability, and expenditures for deductible amounts paid under such insurance; (E) licenses, permits and inspections; (F) compliance with the requirements of any law, statute, ordinance or governmental rule or regulation or any orders pursuant thereto (collectively **"Laws"**); (G) amortization of capital improvements required to comply with Laws, or which are intended to reduce Operating Costs or improve the utility, efficiency or capacity of any of the Building Systems (as defined in Section 4.1), with interest on the unamortized balance at the rate paid by Landlord on funds borrowed to finance such capital improvements (or, if Landlord finances such improvements out of Landlord's funds without borrowing, the rate that Landlord would have paid to borrow such funds, as reasonably determined by Landlord), over such useful life as Landlord shall reasonably determine; (H) property management fees; (I) accounting, legal and other professional services incurred in connection with the operation of the Property and the calculation of Operating Costs and Taxes; (J) a reasonable allowance for depreciation on machinery and equipment used to maintain the Property and on other personal property owned by Landlord in the Property (including window coverings and carpeting in common areas); (K) contesting the validity or applicability of any Laws that may affect the Property; (L) costs and expenses of operating, managing, owning and maintaining the parking lot and the common areas; and (M) any other cost, expenditure, fee or charge, whether or not hereinbefore described, which in accordance with generally accepted property management practices would be considered an expense of managing, operating, maintaining and repairing the Property by a prudent Landlord.

Operating Costs shall not include (i) capital improvements (except as otherwise provided above); (ii) interest and principal payments on loans or indebtedness secured by the Building; (iii) costs of improvements for Tenant; (iv) depreciation or amortization, other than as specifically enumerated in the definition of Operating Costs above; (v) costs, fines, penalties, damages (including amounts paid in settlement), attorneys' fees and expenses incurred due to Landlord's alleged or actual violation of any Law; (vi) advertising and promotional expenditures; (vii) costs incurred due to any violation by Landlord of the terms of this lease; and (viii) other expenses not defined herein that under generally accepted accounting principles would not be considered normal maintenance, repair, management or operation expense.

(2) **"Taxes"** means: all real property taxes and general, special or district assessments or other governmental impositions, of whatever kind, nature or origin, imposed on or by reason of the ownership or use of the Property; service payments in lieu of taxes and taxes and assessments of every kind and nature whatsoever levied or assessed in addition to, in lieu of or in substitution for existing or additional real or personal property taxes on the Property or the personal property described above; and the reasonable cost of contesting by appropriate proceedings the amount or validity of any taxes, assessments or charges described above.

(b) **Additional Rent.**

(1) Tenant shall pay Landlord as **"Additional Rent"** for each calendar year or portion thereof during the Term, the sum of its share of (x) Operating Costs incurred by Landlord for such period, and (y) Taxes for such period. Whereas real estate taxes are assessed on a calendar year basis and paid on a July 1 – June 30 fiscal year basis, the Additional Rent in respect of any calendar year shall include Taxes that are delinquent if not paid by March 31 and by September 30 of the calendar year for which Additional Rent is being determined. Except as provided in Section 6.2, Tenant has elected to self-manage the Property as provided in Section 6.1. As such, there may not be any Operating Costs due to Landlord as Additional Rent from time to time.

(2) Prior to the beginning of each calendar year, Landlord shall notify Tenant of Landlord's estimate of Operating Costs, Taxes and Tenant's Additional Rent for the following calendar year. Commencing on the first day of January of each calendar year and continuing on the first day of every month thereafter in such year, Tenant shall pay to Landlord one-twelfth (1/12th) of the estimated Additional Rent. If Landlord thereafter estimates that Operating Costs or Taxes for such year will vary from Landlord's prior estimate, Landlord may, by notice to Tenant, revise the estimate for such year (and Additional Rent shall thereafter be payable based on the revised estimate).

(3) As soon as reasonably practicable after the end of each calendar year, Landlord shall furnish Tenant a statement with respect to such year then ended, showing Tenant's share of actual Operating Costs, Taxes and Additional Rent for such immediately preceding calendar year, and the total payments made by Tenant with respect thereto. Unless Tenant raises any objections to Landlord's statement within one (1) year after receipt of same, such statement shall conclusively be deemed correct and Tenant shall have no right thereafter to dispute such statement or any item therein or the computation of Additional Rent based thereon. If Tenant objects to the accuracy or propriety of such statement, then Landlord shall provide Tenant with reasonable verification of the figures shown on the statement and the parties shall attempt to resolve any disputes. Any objection of Tenant to Landlord's statement and resolution of any dispute shall not postpone the time for payment of any amounts due Tenant or Landlord based on Landlord's statement, nor shall any failure of

Landlord to deliver Landlord's statement in a timely manner relieve Tenant of Tenant's obligation to pay any amounts due Landlord based on Landlord's statement.

(4) If Tenant's Additional Rent as finally determined for any calendar year (after resolution of any objection by Tenant) exceeds the total payments made by Tenant on account thereof, Tenant shall pay Landlord the deficiency within thirty (30) days of Tenant's receipt of Landlord's statement. If the total payments made by Tenant on account thereof exceed Tenant's Additional Rent as finally determined for such year (after resolution of any objection by Tenant), Tenant's excess payment shall be paid by Landlord to Tenant within thirty (30) days of Landlord's furnishing such statement. For any partial calendar year at the beginning or end of the Term, Additional Rent shall be prorated on the basis of a 365-day year by computing Tenant's Share of Operating Costs and Taxes for the entire year and then prorating such amount for the number of days during such year included in the Term. Notwithstanding the termination of this Lease, Landlord shall pay to Tenant or Tenant shall pay to Landlord, as the case may be, within thirty (30) days after Tenant's receipt of Landlord's final statement and resolution of any objection by Tenant for the calendar year in which this Lease terminates, the difference between Tenant's Additional Rent for that year, as finally determined by Landlord, and the total amount previously paid by Tenant on account thereof.

4. USE AND COMPLIANCE WITH LAWS.

4.1 Use. The Premises shall be used and occupied solely for warehouse and related office use. Tenant shall comply with all present and future Laws relating to Tenant's use or occupancy of the Premises (and make any repairs, alterations or improvements as required to comply with all such Laws). Tenant shall not do, bring, keep or sell anything in or about the Premises that is prohibited by, or that will cause a cancellation of or an increase in the existing premium for, any insurance policy covering the Property or any part thereof. Tenant shall not use the Premises in any manner that will constitute waste or a nuisance. Tenant shall not, without the prior consent of Landlord, (i) bring into the Building or the Premises anything that Tenant knows will cause substantial noise, odor or vibration, overload the floors in the Premises or the Building or any of the heating, ventilating and air-conditioning ("**HVAC**"), mechanical, elevator, plumbing, electrical, fire protection, life safety, or security systems in the Building (**collectively, with HVAC, referred to as "Building Systems"**), or jeopardize the structural integrity of the Building or any part thereof; (ii) connect to the utility systems of the Building any apparatus, machinery or other equipment other than that for which the Building was designed; or (iii) connect to any electrical circuit in the Premises any equipment or other load with aggregate electrical power requirements in excess of 80% of the rated capacity of the circuit, which rated capacity shall be disclosed to Tenant by Landlord.

4.2 Environmental Matters.

(a) Definitions.

(1) "**Environmental Laws**" means all laws relating to environmental matters, including, without limitation, those relating to fines, orders, injunctions, penalties, damages, contribution, cost recovery, compensation, losses or injuries resulting from the release or threatened release of Hazardous Materials (as defined herein) and to the generation, use, storage, transportation, or disposal of Hazardous Materials, in any manner applicable to Tenant including, without limitation, the Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. §9601 et seq.), the Hazardous Material Transportation Act (49 U.S.C. §1801 et seq.), the Resource Conservation and Recovery Act (42 U.S.C. §6901 et seq.) ("**RCRA**"), the Federal Water Pollution Control Act (33 U.S.C. §1251 et seq.), the Clean Air

Act (42 U.S.C. §7401 et seq.), the Toxic Substances Control Act (15 U.S.C. §2601 et seq.), the Occupational Safety and Health Act (29 U.S.C. §651 et seq.) and the Emergency Planning and Community Right-to-Know Act (42 U.S.C. §11001 et seq.), each as amended or supplemented, and any analogous future or present local, state, and federal statutes and regulations promulgated pursuant thereto, each as in effect as of the date of determination.

(2) **"Hazardous Materials"** means (i) any chemical, material or substance defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "extremely hazardous waste," "restricted hazardous waste," or "toxic substances" or words of similar import under any applicable Environmental Laws, (ii) any oil, petroleum or petroleum derived substance, any drilling fluids, produced waters and other wastes associated with the exploration, development or production of crude oil, any flammable substances or explosives, any radioactive materials, any hazardous wastes or substances, any toxic wastes or substances or any other materials or pollutants which cause the Premises to be in violation of any Environmental Laws, (iii) asbestos in any form which is or could become friable, urea formaldehyde foam insulation, electrical equipment which contains any oil or dielectric fluid containing levels of polychlorinated biphenyls in excess of fifty parts per million, and (iv) any other chemical, material or substance, exposure to which is prohibited, limited or regulated by any governmental authority or may or could pose a hazard to the health and safety of the owners, occupants or any persons surrounding the Premises.

(b) Landlord Representation. Landlord represents and warrants to Tenant that it has no actual knowledge of the existence of any Hazardous Materials on the Property. Landlord shall be responsible for, and shall not include in the Operating Costs, all claims, judgments, damages, penalties, fines, costs, liabilities and losses (including reasonable attorneys' fees) arising out of a breach of the foregoing representation and warranty.

(c) Tenant Covenant - Hazardous Materials. In the event Tenant or any Subtenant (as defined in Section 13), in the course of its business, causes any Hazardous Materials to be used, generated, stored or disposed of on, under or about, or transported to or from, the Premises (collectively "Hazardous Materials Activities") Tenant shall, and shall require such Subtenant to, conduct such Hazardous Materials Activities in strict compliance with all applicable Environmental Laws and regulations, and using all necessary and appropriate precautions. Landlord shall not be liable to Tenant for any Hazardous Materials Activities by Tenant, any Subtenant, or their respective employees, agents, contractors, licensees or invitees. Tenant shall be responsible for any claims, damages costs and liabilities arising out of Tenant's Hazardous Materials Activities to the extent permitted by Iowa Code Chapter 669. If Tenant's or any Subtenant's activities violate or create a risk of violation of any Environmental Laws, Tenant shall, and shall require the Subtenant to, cease such activities immediately upon notice from Landlord. Tenant shall immediately notify Landlord both by telephone and in writing of any release, spill or unauthorized discharge of Hazardous Materials or of any condition constituting an "imminent hazard" under RCRA of which Tenant becomes aware. Landlord, Landlord's representatives and employees may enter the Premises at all reasonable times during the Term, and so as to not unduly interfere with Tenant's or a Subtenant's business, to inspect compliance herewith.

(d) Tenant Covenant - Environmental Laws. During the Term, Tenant will, and will require any Subtenants to, comply with all applicable Environmental Laws, and Tenant shall be responsible for any and all claims, judgments, damages, penalties, fines, costs, liabilities and losses arising out of a breach of the foregoing covenant, to the extent permitted by Iowa Code Chapter 669.

4.3 Americans with Disabilities Act. The parties agree that the liabilities and obligations of Landlord and Tenant under that certain federal statute commonly known as the Americans With Disabilities Act as well as the regulations and accessibility guidelines promulgated thereunder as each of the foregoing is supplemented or amended from time to time (collectively, the "ADA") shall be apportioned as follows:

(a) Landlord covenants and agrees that the Premises will be in compliance with the ADA on the Commencement Date.

(b) From and after the Commencement Date, Tenant covenants and agrees to conduct its operations within the Premises in compliance with the ADA. If the Premises fails to comply with the ADA, such nonconformity shall be promptly made to comply by Tenant. In the event that Tenant or a Subtenant elects to undertake any alterations to, for or within the Premises, including initial build-out work, Tenant or the Subtenant shall assure that such alterations are performed in compliance with the ADA.

5. IMPROVEMENTS & ALTERATIONS.

5.1 Improvements. Landlord and Tenant shall perform their respective obligations with respect to design and construction of any improvements agreed to be constructed and installed in the Premises as provided in this Lease.

5.2 Landlord Work. Following execution of the Lease and prior to the Commencement Date, the Landlord agrees to perform, at its cost, the work to the Premises described in attached Exhibit D, including but not limited to the lighting described in Exhibit D (the "**Landlord Work**").

5.3 Tenant Improvements. Upon execution of this Lease the Tenant and Landlord will enter into the Tenant Improvement Rider attached hereto as Exhibit C providing for tenant improvements to the Secondary Rented Area (the "Tenant Improvements"). The Tenant Improvement Rider may be amended from time to time by a written agreement of the parties. The Tenant Improvement Rider includes a summary of the costs of the Tenant Improvements (the "TI Costs"). Within 30 days of the TI Substantial Completion, the Tenant will pay to the Landlord the full amount of the TI Costs, as the same may be modified from time to time by written agreement of the parties. The Landlord and Tenant agree that the Tenant is taking the 61,000 square foot area of the Premises outside of the Secondary Rented Area (commonly known Facilities Management Area) in "as is" condition, with no landlord work or tenant improvements.

5.4 Alterations. Tenant and any Subtenant may make any alterations, improvements or changes to the Premises, including installation of any security system or telephone or data communication wiring, movement, removal or replacement of walls, casework or laboratory equipment, and making any other modifications to non-structural (that is, non-load-bearing) portions of the Premises ("**Alterations**"), without any requirement of Landlord's further consent. Any such Alterations shall be completed by Tenant or the Subtenant at Tenant's or the Subtenant's sole cost and expense: (i) with due diligence, in a good and workmanlike manner; (ii) in compliance with the reasonable construction rules and regulations promulgated by Landlord from time to time; and (iii) in accordance with all applicable Laws. If any work outside the Premises, or any work on or adjustment to any of the Building Systems, is required in connection with or as a result of Tenant's or a Subtenant's work, such work shall be performed at Tenant's or the Subtenant's expense by contractors reasonably approved by Landlord. All Alterations (other than Trade Fixtures as defined below) shall, upon installation become part of the realty and be the property of Landlord.

5.5 Before making any Alterations, Tenant or the Subtenant shall obtain all applicable permits, authorizations and governmental approvals. Tenant shall periodically, but no more frequently than annually, update the existing as-built plans and specifications of the Building to reflect any structural Alterations.

5.6 Tenant shall keep the Premises and the Property free and clear of all liens arising out of any work performed, materials furnished or obligations incurred by Tenant in accordance with and as permitted by Chapter 573 of the Iowa Code.

5.7 Subject to the provisions of Section 4 - *Use and Compliance with Laws* and the foregoing provisions of this Section, Tenant may install and maintain furnishings, equipment, movable partitions, business equipment and other trade fixtures ("**Trade Fixtures**") in the Premises, provided that the Trade Fixtures do not become an integral part of the Premises or the Building. Tenant shall promptly repair any damage to the Premises or the Building caused by any installation or removal of such Trade Fixtures.

6. MAINTENANCE AND REPAIRS.

6.1 By taking possession of the Premises, Tenant agrees that the Premises are then in a good and tenantable condition. Except as provided in Section 6.2 below, during the Term, Tenant, at Tenant's expense, shall repair and maintain the Premises (and may contract with third parties to provide such services), including, but not limited to, the Building Systems, the exterior portions of the Property, such as parking lot, exterior sidewalks, lawn and landscape areas, the interior walls, floor coverings, ceiling (ceiling tiles and grid), Tenant Improvements, Alterations, fire extinguishers, outlets and fixtures, and any appliances (including dishwashers, hot water heaters and garbage disposers) in the Premises, in good operating condition, common areas of the Building, such as elevators, stairs, corridors and restrooms; and keep the Premises in a clean, safe and orderly condition.

6.2 Landlord, at Landlord's expense, shall maintain or cause to be maintained in reasonably good order, condition and repair, the structural portions of the foundations, floors and exterior walls of the Building and the roof of the Building; provided, however, that Tenant shall pay the cost of maintenance, repair and replacement for any damage occasioned by Tenant's use of the Premises or the Property or any act or omission of Tenant or Tenant's Representatives or Visitors, to the extent (if any) not covered by Landlord's property insurance. Landlord shall be under no obligation to inspect the Premises. Tenant shall promptly report in writing to Landlord any defective condition known to Tenant which Landlord is required to repair.

6.3 Landlord hereby reserves the right, at any time and from time to time, without liability to Tenant, and without constituting an eviction, constructive or otherwise, or entitling Tenant to any abatement of rent or to terminate this Lease or otherwise releasing Tenant from any of Tenant's obligations under this Lease:

(a) To make alterations, additions, repairs, improvements to or in all or any part of the Building, the fixtures and equipment therein, and the Leased Premises; if Tenant fails to comply with its obligations under Section 6.1 above;

(b) If any governmental authority promulgates or revises any Law or imposes mandatory or voluntary controls or guidelines on Landlord or the Property relating to the use or conservation of energy or utilities or the reduction of automobile or other emissions or reduction or management of traffic or parking on the Property (collectively "Controls"), to comply with such

Controls, whether mandatory or voluntary, or make any alterations to the Property related thereto. Landlord's right to undertake any of the foregoing, however, shall not be exercised if such undertaking will have a material adverse effect on Tenant's or any Subtenant's use of the Premises including, without limitation, access to the Premises.

7. **TAXES.** Tenant is an entity of the State of Iowa and is not subject to excise, sales or transaction privilege taxes arising out of this Lease (excluding, however, state and federal personal or corporate income taxes measured by the income of Landlord from all sources) imposed by any taxing authority upon Landlord or upon Landlord's receipt of any rent payable by Tenant pursuant to the terms of this Lease ("**Rental Tax**"). Tenant shall pay any Rental Tax to Landlord in addition to and at the same time as Base Rent is payable under this Lease.

8. **UTILITIES AND SERVICES.**

8.1 **Description of Services.** On the Commencement Date, Landlord shall furnish to the Premises reasonable amounts of heat, ventilation and air-conditioning for normal warehouse and office use. The Landlord shall not be obligated to provide extra-ordinary heat, ventilation, air conditioning or climate control unless the same is specifically included in the Tenant Improvements and then, only following the TI Completion Date. Any additional utilities or services that Landlord may agree to provide shall be at Tenant's sole expense. From and after the Commencement Date Tenant shall be responsible for furnishing utilities or services to the Premises.

8.2 **Temporary Interruption of Services.** In the event of a temporary interruption in or failure or inability to provide any services or utilities to the Premises or Building for any reason beyond the reasonable control of Landlord (a "**Service Failure**"), such Service Failure shall not impose upon Landlord any liability whatsoever, constitute an eviction of Tenant, constructive or otherwise, entitle Tenant to an abatement of rent or to terminate this Lease or otherwise release Tenant from any of Tenant's obligations under this Lease.

8.3 **Utility Services.** Tenant shall pay for all water, gas, heat, air conditioning, light, power, telephone, sewer, sprinkler charges and other utilities and services used on the Premises, together with any taxes, penalties, surcharges or the like pertaining thereto, and maintenance charges for utilities.

9. **EXCULPATION AND RESPONSIBILITY.**

9.1 **Landlord's Responsibility.** Landlord shall be responsible for, and shall not include in Operating Costs, all claims and damages asserted by a third party against Tenant, its employees or agents that directly result from the negligent acts or omissions of Landlord, its employees or agents.

9.2 **Tenant's Responsibility.** Tenant shall be responsible for all claims and damages asserted by a third party against Landlord that directly result from the negligent acts or omissions of Tenant, its employees or agents to the extent permitted under Iowa Code 669.

9.3 **Damage to Tenant and Tenant's Property.** Except as otherwise provided in this lease, Landlord shall not be liable to Tenant for any loss, injury or other damage to Tenant or to Tenant's property in or about the Premises or the Property from any cause (including defects in the Property or in any equipment in the Property; fire, explosion or other casualty; bursting, rupture, leakage or overflow of any plumbing or other pipes or lines, sprinklers, tanks, drains, drinking fountains or washstands in, above, or about the Premises or the Property; or acts of other tenants in

the Property) unless caused by the negligence or willful misconduct of Landlord, its employees, agents, contractors, or subcontractors or by Landlord's breach of the lease.

9.4 Damages. Notwithstanding any other provision of this lease to the contrary, in no event shall either Landlord or Tenant be liable to the other party for any punitive damages.

9.5 Survival. The obligations of the parties under this Section 9 shall survive the expiration or termination of this Lease.

10. INSURANCE

10.1 Tenant's Insurance.

(a) Liability Insurance. Tenant is a state agency and is self-insured. As a state agency, claims against Tenant are subject to the Iowa Tort Claims Act (Iowa Code, Chapter 669). Under Chapter 669, claims may be filed on account of wrongful death, personal injury or property damage incurred by reason of the negligence of Tenant or its employees while acting within the scope of employment. The claims coverage does not extend to third parties, however, and additional insureds cannot be added to the claims coverage.

(b) Property Insurance. Tenant shall at all times maintain in effect with respect to any Alterations and Tenant's Trade Fixtures any personal property, commercial property insurance providing coverage, on an "all risk" or "special form" basis, in an amount equal to at least 90% of the full replacement cost of the covered property. Tenant may carry such insurance under a blanket policy, provided that such policy provides coverage equivalent to a separate policy. During the Term, the proceeds from any such policies of insurance shall be used for the repair or replacement of the Alterations, Trade Fixtures any personal property so insured. Landlord shall be provided coverage under such insurance to the extent of its insurable interest and, if requested by Landlord, both Landlord and Tenant shall sign all documents reasonably necessary or proper in connection with the settlement of any claim or loss under such insurance. Landlord will have no obligation to carry insurance on any Alterations or on Tenant's Trade Fixtures or personal property.

(c) Requirements for All Policies. Each policy of insurance required under this Section 10.1 shall: (i) be in a form, and written by an insurer, reasonably acceptable to Landlord, (ii) be maintained at Tenant's sole cost and expense, and (iii) require at least thirty (30) days written notice to Landlord prior to any cancellation or nonrenewal of insurance coverage. Insurance companies issuing such policies shall have rating classifications of "A" or better and financial size category ratings of "VII" or better according to the latest edition of the A.M. Best Key Rating Guide. All insurance companies issuing such policies shall be admitted carriers licensed to do business in the state of Iowa.

(d) Certificates of Insurance. Prior to occupancy of the Premises by Tenant, and annually thereafter, Tenant shall furnish to Landlord a certificate of insurance reflecting that the insurance required by this Section is in force.

(e) Subtenants. Tenant's obligations hereunder may be performed by Tenant requiring a Subtenant to provide the necessary coverage.

10.2 Landlords' Insurance.

(a) Property Insurance. During the Term, Landlord shall maintain in effect property insurance on the Building on a Special Form basis in an amount equal to at least 90% of the full replacement cost, excluding land, foundations, footings and underground installations. The Property Insurance shall contain business income ("loss of rents") coverage for a period of time not less than twelve (12) months following the insured casualty.

(b) Liability Insurance. Landlord shall maintain in full force throughout the Term, Commercial General Liability insurance providing coverage on an occurrence form basis with limits of not less than Seven Million Dollars (\$7,000,000) each occurrence or bodily injury and property damage combined, Seven Million Dollars (\$7,000,000) annual aggregate, and Seven Million Dollars (\$7,000,000) products and completed operations annual aggregate. Such liability policy shall name Tenant as an additional insured solely with respect to this Agreement.

(c) Certificates of Insurance. Landlord shall annually furnish to Tenant a certificate of insurance reflecting that the insurance required by this Section is in force. Certificates shall specify name of the project and provide that no less than 30 days' notice of non-renewal, cancellation or material change shall be given to the Tenant.

11. DAMAGE OR DESTRUCTION.

11.1 Landlord's Duty to Repair.

(a) If all or a part of the Premises are rendered inhabitable or inaccessible by damage to all or any part of the Property from fire or other casualty then, unless either party is entitled to and elects to terminate this Lease pursuant to Sections 11.2 - *Landlord's Right to Terminate* and 11.3- *Tenant's Right to Terminate*, Landlord shall, at its expense, repair and restore the Premises and/or the Property, as the case may be, to substantially their former condition to the extent permitted by then applicable Laws.

(b) If Landlord is required or elects to repair damage to the Premises and/or the Property, this Lease shall continue in effect, but Tenant's Base Rent and Additional Rent shall be abated with regard to any portion of the Premises that Tenant (or any Subtenant) is prevented from using by reason of such damage or its repair from the date of the casualty until substantial completion of Landlord's repair of the affected portion of the Premises as required under this Lease.

11.2 Landlord's Right to Terminate. Landlord may elect to terminate this Lease following damage by fire or other casualty under the following circumstances:

(a) If, in the reasonable judgment of Landlord, the Premises and the Property cannot be substantially repaired and restored under applicable Laws within one hundred eighty (180) days from the date of the casualty;

(b) If the Building is damaged or destroyed to the extent that, in the reasonable judgment of Landlord, the cost to repair and restore the Building would exceed seventy-five percent (75%) of the full replacement cost of the Building, whether or not the Premises are damaged or destroyed; or

(c) If the fire or other casualty occurs during the last two years of the Term. If any of the circumstances described in subparagraphs (a), (b) or (c) of this Section 11.2 occur or arise,

Landlord shall give Tenant notice within one hundred twenty (120) days after the date of the casualty, specifying whether Landlord elects to terminate this Lease as provided above and, if not, Landlord's estimate of the time required to complete Landlord's repair obligations under this Lease.

11.3 Tenant's Right to Terminate. If all or a substantial part of the Premises are rendered untenable or inaccessible by damage to all or any part of the Property from fire or other casualty, and Landlord does not elect to terminate as provided above, then Tenant may elect to terminate this Lease if Landlord's estimate of the time required to substantially complete Landlord's repair obligations under this Lease is greater two hundred forty (240) days, in which event Tenant may elect to terminate this Lease by giving Landlord notice of such election to terminate within thirty (30) days.

12. CONDEMNATION.

12.1 Definitions.

(a) "**Award**" shall mean all compensation, sums, or anything of value awarded, paid or received on a total or partial Condemnation.

(b) "**Condemnation**" shall mean (i) a permanent taking (or a temporary taking for a period extending beyond the end of the Term) pursuant to the exercise of the power of condemnation or eminent domain by any public or quasi-public authority, private corporation or individual having such power ("**Condemner**"), whether by legal proceedings or otherwise, or (ii) a voluntary sale or transfer by Landlord to any such authority, either under threat of condemnation or while legal proceedings for condemnation are pending.

(c) "**Date of Condemnation**" shall mean the earlier of the date that title to the property taken is vested in the Condemner or the date the Condemner has the right to possession of the property being condemned.

12.2 Effect on Lease.

(a) If the Premises are totally taken by Condemnation, this Lease shall terminate as of the Date of Condemnation. If a portion but not all of the Premises is taken by Condemnation, this Lease shall remain in effect; provided, however, that if the portion of the Premises remaining after the Condemnation will be unsuitable for Tenant's continued use, then upon notice to Landlord within sixty (60) days after Landlord notifies Tenant of the Condemnation, Tenant may terminate this Lease effective as of the Date of Condemnation.

(b) If seventy-five percent (75%) or more of the Property or of the parcel(s) of land on which the Building and parking lot is located or of the parking lot or of the floor area in the Building is taken by Condemnation, or if as a result of any Condemnation the Building is no longer reasonably suitable for use as prior to such Condemnation, whether or not any portion of the Premises is taken, either party may elect to terminate this Lease, effective as of the Date of Condemnation, by notice to the other party within thirty (30) days after the Date of Condemnation.

(c) If all or a portion of the Premises is temporarily taken by a Condemner for a period not extending beyond the end of the Term, this Lease shall remain in full force and effect, but rental shall abate to the extent the Premises cannot be used by Tenant (or any Subtenant) as provided in this Lease.

12.3 Restoration. If this Lease is not terminated as provided in Section 12.2 - *Effect on Lease*, Landlord, at its expense, shall diligently proceed to repair and restore the Premises to substantially its former condition (to the extent permitted by then applicable Laws) and/or repair and restore the Building to an architecturally complete.

12.4 Abatement and Reduction of Rent. If any portion of the Premises is taken in a Condemnation or is rendered permanently uninhabitable by repairs necessitated by the Condemnation, and this Lease is not terminated, the Base Rent and Additional Rent payable under this Lease shall be proportionally reduced as of the Date of Condemnation based upon the percentage of rentable square feet in the Premises so taken or rendered permanently uninhabitable. In addition, if this Lease remains in effect following a Condemnation and Landlord proceeds to repair and restore the Premises, the Base Rent and Additional Rent payable under this Lease shall be abated during the period of such repair or restoration to the extent such repairs prevent Tenant's use of the Premises.

12.5 Awards. Any award made shall be paid to Landlord, and Tenant hereby assigns to Landlord, and waives all interest in or claim to, any such award, including any claim for the value of the unexpired Term; provided, however, that Tenant shall be entitled to receive, or to prosecute a separate claim for, an award allocable to capital improvements, to the Building, paid for by Tenant as a part of the initial construction of the Building, or an award for a temporary taking of the Premises or a portion thereof by a Condemnor where this Lease is not terminated (to the extent such award relates to the unexpired Term), or an award or portion thereof separately designated for relocation expenses or the interruption of or damage to Tenant's business or as compensation for Tenant's personal property, Trade Fixtures or Alterations.

13. **ASSIGNMENT AND SUBLETTING**. Tenant may sublet the Premises or assign this Lease only with the prior written permission and consent of the Landlord, which consent shall not be unreasonably withheld, conditioned or delayed.

13.1 No Release of Tenant. No consent by Landlord to any Transfer shall relieve Tenant of any obligation to be performed by Tenant under this Lease, whether occurring before or after such consent, assignment, subletting or other Transfer. The consent by Landlord to any Transfer shall not relieve Tenant or any such Transferee from the obligation to obtain Landlord's express prior written consent to any subsequent Transfer by Tenant or any Transferee. The acceptance of rent by Landlord from any other person (whether or not such person is an occupant of the Premises) shall not be deemed to be a waiver by Landlord of any provision of this Lease or to be a consent to any Transfer.

14. **DEFAULT AND REMEDIES.**

14.1 Events of Default. The occurrence of any of the following shall constitute an "**Event of Default**" by Tenant:

(a) Tenant fails to make any payment of Base Rent (Section 3.1) or Additional Rent (Section 3.2) if payment in full is not received by Landlord within (subject to the once-per-year grace period provided below) ten (10) business days after Tenant has received written notice that it is due and unpaid. Provided, however, unpaid Additional Rent that is being disputed by Tenant shall not be the subject of an Event of Default. Provided further, that no Event of Default shall have occurred unless payment is not made within thirty (30) days after Tenant's receipt of written notice of nonpayment, but this 30-day-notice requirement shall be applicable to only one payment default per calendar year.

(b) Either Landlord or Tenant fails to perform or comply with any provision of this Lease other than described in (a) above, and does not fully cure such failure within sixty (60) days after notice to the Landlord or Tenant, as the case may be, by the party asserting the default has occurred or, if such failure cannot be cured within such sixty (60)-day period, the defaulting party fails within such sixty (60)-day period to commence, and thereafter diligently proceed with, all actions necessary to cure such failure as soon as reasonably possible but in all events within ninety (90) days of such notice.

(c) The Tenant, or the Tenant's affiliate, defaults on its lease for part of all of the adjoining space in the Building and/or Real Estate.

14.2 Remedies. Upon the occurrence of an Event of Default, the parties shall have the following remedies, which shall not be exclusive but shall be cumulative and shall be in addition to any other remedies now or hereafter allowed by law:

(a) Landlord may terminate Tenant's right to possession of the Premises at any time by written notice to Tenant. Tenant expressly acknowledges that in the absence of such written notice from Landlord, no other act of Landlord, including re-entry into the Premises, efforts to relet the Premises, reletting of the Premises for Tenant's account, storage of Tenant's or any Subtenant's personal property and Trade Fixtures, acceptance of keys to the Premises from Tenant or exercise of any other rights and remedies under this Section, shall constitute an acceptance of Tenant's surrender of the Premises or constitute a termination of this Lease or of Tenant's right to possession of the Premises. Upon such termination in writing of Tenant's right to possession of the Premises, as herein provided, this Lease shall terminate and Landlord shall be entitled to recover damages, including, but not limited to, tenant improvement costs, broker fees and negotiating costs from Tenant as provided in any applicable statutes and any other applicable existing or future law providing for recovery of damages for such breach.

(b) Tenant may pay Rent into a court of competent jurisdiction and commence an action for damages or declaratory judgment with respect to Tenant's assertion of the occurrence of an event of default by Landlord under this Lease, and such Rent so deposited shall be held in such proceedings as a fund from which (but without limitation) any damages or recompense awarded Tenant may be satisfied, and any amount in excess of the amount awarded to Tenant shall be paid over to Landlord. Such Rent so deposited shall constitute payment of such Rent to Landlord, and shall not be the basis of any assertion of an event of default by Landlord against Tenant for delinquency in the payment of Rent. In lieu of payment of such Rent into court, Tenant may deposit such Rent with an independent financial institution to hold in trust pending resolution of the action commenced by Tenant, which deposit shall be distributed in accordance with the foregoing.

15. WAIVER. No provisions of this Lease shall be deemed waived by Landlord unless such waiver is in a writing signed by Landlord. The waiver by Landlord of any breach of any provision of this Lease shall not be deemed a waiver of such provision or of any subsequent breach of the same or any other provision of this Lease. No delay or omission in the exercise of any right or remedy of Landlord upon any default by Tenant shall impair such right or remedy or be construed as a waiver. Landlord's acceptance of any payments of rent due under this Lease shall not be deemed a waiver of any default by Tenant under this Lease (including Tenant's recurrent failure to timely pay rent) other than Tenant's nonpayment of the accepted sums, and no endorsement or statement on any check or payment or in any letter or document accompanying any check or payment shall be deemed an accord and satisfaction. Landlord's consent to or approval of any act by Tenant

requiring Landlord's consent or approval shall not be deemed to waive or render unnecessary Landlord's consent to or approval of any subsequent act by Tenant.

16. **ENTRY, INSPECTION AND CLOSURE.** Upon reasonable oral or written notice to Tenant (and without notice in emergencies), Landlord and its authorized representatives may enter the Premises at all reasonable times to: (a) determine whether the Premises are in good condition, (b) determine whether Tenant is complying with its obligations under this Lease, (c) perform any maintenance or repair of the Premises or the Building that Landlord has the right or obligation to perform, (d) install or repair improvements for other tenants where access to the Premises is required for such installation or repair, (e) serve, post or keep posted any notices required or allowed under the provisions of this Lease, (f) show the Premises to prospective brokers, agents, buyers, transferees, Mortgagees or tenants, or (g) do any other act or thing necessary for the safety or preservation of the Premises or the Building. When reasonably necessary Landlord may temporarily close entrances, doors, corridors, elevators or other facilities in the Building without liability to Tenant by reason of such closure. Landlord shall conduct its activities under this Section in a manner that will minimize inconvenience to Tenant without incurring additional expense to Landlord. In no event shall Tenant be entitled to an abatement of rent on account of any entry by Landlord, and Landlord shall not be liable in any manner for any inconvenience, loss of business or other damage to Tenant or other persons arising out of Landlord's entry on the Premises in accordance with this Section. No action by Landlord pursuant to this paragraph shall constitute an eviction of Tenant, constructive or otherwise, entitle Tenant to abatement of rent or to terminate this Lease or otherwise release Tenant from any of Tenant's obligations under this Lease.

17. **SURRENDER.** Upon the expiration or termination of this Lease, Tenant shall surrender the Premises and all Tenant Improvements and Alterations to Landlord broom-clean and in their original condition, except for reasonable wear and tear, damage from casualty or condemnation and any changes resulting from Alterations.

18. **ENCUMBRANCES.** This Lease is expressly made subject and subordinate to any mortgage, deed of trust, ground lease, underlying lease or like encumbrance affecting any part of the Property or any interest of Landlord therein which is now existing or hereafter executed or recorded ("**Encumbrance**"); provided, however, that such subordination shall only be effective, as to Encumbrances becoming effective after the Lease Date, if the holder of the Encumbrance agrees that this Lease shall survive the termination of the Encumbrance by lapse of time, foreclosure or otherwise, so long as Tenant is not in default under this Lease, and the holder of the Encumbrance agrees to perform the obligations of the Landlord hereunder. Provided the conditions of the preceding sentence are satisfied, Tenant shall execute and deliver to Landlord, within thirty (30) days after receipt of written request therefor by Landlord and in a form reasonably requested by Landlord and reasonably approved by Tenant, any additional documents evidencing the subordination of this Lease with respect to any such Encumbrance and the non-disturbance agreement of the holder of any such Encumbrance, and likewise Landlord shall provide Tenant with the executed agreement of the holder of the Encumbrance. If the interest of Landlord in the Property is transferred pursuant to or in lieu of proceedings for enforcement of any Encumbrance, Tenant shall immediately and automatically attorn to the new owner, and this Lease shall continue in full force and effect as a direct lease between the transferee and Tenant on the terms and conditions set forth in this Lease.

19. **ESTOPPEL CERTIFICATES AND FINANCIAL STATEMENTS.** Within thirty (30) days after written request therefor Tenant shall execute and deliver to Landlord, in a form provided by and completed in draft form by Landlord, a certificate stating that this Lease is in full force and effect, describing any amendments or modifications hereto, acknowledging that this Lease is subordinate or prior, as the case may be, to any Encumbrance and stating any other information

directly pertaining to the terms of this Lease that Landlord may reasonably request concerning the Term, the monthly Base Rent, the date to which Rent has been paid, the amount of any security deposit or prepaid rent, whether either party hereto is known to be in default under the terms of the Lease, and whether Landlord has completed its construction obligations hereunder (if any). Any person or entity purchasing, acquiring an interest in or extending financing with respect to the Property shall be entitled to rely upon any such certificate.

20. NOTICES. Any notice, demand, request, consent or approval that either party desires or is required to give to the other party under this Lease shall be in writing and shall be served personally, delivered by messenger or courier service, or sent by U.S. certified mail, return receipt requested, postage prepaid, addressed to the other party at the party's address for notices set forth in the Basic Lease Information. Any notice required pursuant to any laws may be incorporated into, given concurrently with or given separately from any notice required under this Lease. Notices shall be deemed to have been given and be effective on the earlier of (a) receipt (or refusal of delivery or receipt); or (b) one (1) business day after acceptance by the independent service for delivery, if sent by independent messenger or courier service, or three (3) business days after mailing if sent by mail in accordance with this Section. Either party may change its address for notices hereunder, effective fifteen (15) days after notice to the other party complying with this Section. If Tenant sublets the Premises and notifies Landlord of the name and address of the Subtenant, notices from Landlord shall be effective on the Subtenant when given to the Subtenant pursuant to this Section.

21. RELATIONSHIP OF PARTIES. While this Lease is between the parties as landlord and tenant, as independent, arms-length parties and does not and is not intended to evidence any joint venture, partnership or any other business association between the parties hereto, other than the relationship of Landlord and Tenant.

22. QUIET POSSESSION. Subject to Tenant's full and timely performance of all of Tenant's obligations under this Lease and subject to the terms of this Lease, Tenant shall have the quiet possession of the Premises throughout the Term as against any persons or entities lawfully claiming by, through or under Landlord.

23. SECURITY MEASURES. Tenant may, but shall be under no obligation to, implement security measures for the Property, requiring identification for access to the Building, evacuation of the Building for cause, suspected cause, or for drill purposes, the issuance of magnetic pass cards or keys for Building access and other actions that Tenant deems necessary or appropriate to prevent any threat of property loss or damage, bodily injury or business interruption; provided, Tenant shall at all times have the right to change, alter or reduce any such security services or measures.

24. FORCE MAJEURE. If Landlord or Tenant is delayed, interrupted or prevented from performing any of its obligations under this Lease, except the payment of Rent by Tenant, including its obligations under the Tenant Improvement Rider (if any), and such delay, interruption or prevention is due to fire, act of God, governmental act or failure to act, labor dispute, unavailability of materials or any cause outside the reasonable control of Landlord or Tenant, as the case may be, then the time for performance of the affected obligations of Landlord or Tenant shall be extended for a period equivalent to the period of such delay, interruption or prevention; provided that Landlord or Tenant gives written notice to the other promptly upon becoming aware of such an occurrence and describing the occurrence upon which Landlord or Tenant, as the case may be, is relying for implementation of this Section.

25. LANDLORD'S LIABILITY. The term "Landlord," as used in this Lease, shall mean only the owner or owners of the Building at the time in question. In the event of any conveyance of title to the Building to an unaffiliated third party and the assumption by such third party of the obligations of the Landlord hereunder, then from and after the date of such conveyance and assumption, the transferor Landlord shall be relieved of all liability with respect to Landlord's obligations to be performed under this Lease to the extent such obligations are to be performed after the date of such conveyance. Notwithstanding any other term or provision of this Lease, and except for Landlord's obligations to construct the Building and the Premises, its obligations for third party claims and damages asserted against Tenant under Section 9.2 and any liability arising from its intentional or willful acts or omissions, the liability of Landlord for its obligations under this Lease is limited solely to i) the proceeds of insurance coverage set forth in Section 10.2 and ii) Landlord's interest in the Building as the same may from time to time be encumbered, and no personal liability shall at any time be asserted or enforceable against any other assets of Landlord or against Landlord's partners or members or its or their respective partners, shareholders, members, directors, officers or managers on account of any of Landlord's obligations or actions under this Lease

26. ENTIRE AGREEMENT. This Lease, including the Exhibits and Schedules attached hereto, and the documents referred to herein, if any, constitute the entire agreement between Landlord and Tenant with respect to the leasing of space by Tenant in the Building, and supersede all prior or contemporaneous agreements, understandings, proposals and other representations by or between Landlord and Tenant, whether written or oral, all of which are merged herein. Neither Landlord nor Landlord's agents have made any representations or warranties with respect to the Premises, the Building, the Property or this Lease except as expressly set forth herein, and no rights, easements or licenses shall be acquired by Tenant by implication or otherwise unless expressly set forth herein. The submission of this Lease for examination does not constitute an option for the Premises and this Lease shall become effective as a binding agreement only upon execution and delivery thereof by Landlord to Tenant.

27. MISCELLANEOUS. This Lease may not be amended or modified except by a writing signed by Landlord and Tenant. This Lease shall be binding on and shall inure to the benefit of the parties and their respective successors, assigns and legal representatives. The determination that any provisions hereof may be void, invalid, illegal or unenforceable shall not impair any other provisions hereof and all such other provisions of this Lease shall remain in full force and effect. The unenforceability, invalidity or illegality of any provision of this Lease under particular circumstances shall not render unenforceable, invalid or illegal other provisions of this Lease, or the same provisions under other circumstances. This Lease shall be construed and interpreted in accordance with the laws (excluding conflict of laws principles) of the state of Iowa. The provisions of this Lease shall be construed in accordance with the fair meaning of the language used and shall not be strictly construed against either party, even if such party drafted the provision in question. When required by the context of this Lease, the singular includes the plural. Wherever the term "including" is used in this Lease, it shall be interpreted as meaning "including, but not limited to" the matter or matters thereafter enumerated. The captions contained in this Lease are for purposes of convenience only and are not to be used to interpret or construe this Lease. Time is of the essence with respect to this Lease, except as to the conditions relating to the delivery of possession of the Premises to Tenant. Neither Landlord nor Tenant shall record this Lease. The parties agree that any disputes concerning this lease, and the enforcement of the terms hereof, shall be submitted to the courts of the State of Iowa and the parties submit to the jurisdiction thereof, and no action shall be commenced or prosecuted in any other state.

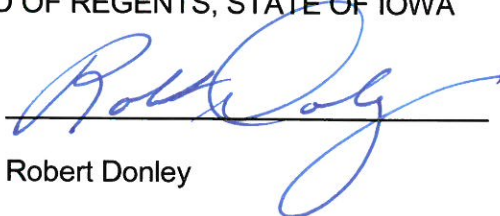
28. TENANT'S RIGHT OF FIRST REFUSAL. If Landlord receives a bona fide third party offer to sell the Premises which Landlord is willing to accept, Landlord shall convey a written copy of such third party offer to Tenant in accordance with Paragraph 20. Tenant shall have thirty (30) days after delivery of such third party offer in which to exercise a right of first refusal to purchase the Premises upon the same terms and conditions of such third party offer by delivering its written acceptance of the offer to Landlord in accordance with Paragraph 20. The sale and purchase will be consummated in the time period set forth in the third party offer, provided that the time period of such third party may be extended in order to provide a reasonable period of time in which to close the transaction, and the parties shall enter into a purchase and sale agreement reflecting the terms of the third party offer and otherwise in customary form. If Tenant is in default hereunder (utilizing applicable grace or cure periods) when such offer is forwarded to Tenant, Tenant shall have no right of first refusal hereunder. In the event that Tenant elects not to purchase the Premises in accordance with this Paragraph 29 and the Premises are sold to the third party offeror, Tenant's right of first refusal shall be terminated upon such sale. Tenant's right of first refusal shall be void upon the expiration of the Term (as may be extended) or upon the earlier termination of this Lease. In no event shall Tenant be permitted to exercise or accept its right of first refusal under this Section 28 unless it also exercises a right of first on less than all of the Building and the Real Estate.

29. TENANT'S PURCHASE OPTION. Tenant shall have the option to purchase the Property (the "Purchase Option") at the end of the initial Lease Term. The Tenant may exercise the Purchase Option by delivering written notice to the Landlord of its exercise not later than six (6) months prior to the conclusion of the initial Lease Term (the "Purchase Notice"). The purchase price for the Premises shall be a price that is mutually agreed upon by the parties. The parties agree that they will negotiate in good faith in arriving at a purchase price. When they parties arrive at a purchase price, they agree to memorialize the same in a Purchase and Sale Agreement in a form mutually agreeable to the parties and including terms and provisions normally included in such an agreement for a similar transaction. The parties will have sixty (60) days from the date of the Purchase Notice in which to negotiate, arrive at a purchase price and enter into a Purchase and Sale Agreement. If the parties fail to arrive at a purchase price and enter into a Purchase and Sale Agreement within such sixty (60) days, the Purchase Option shall terminate. The Tenant shall have thirty (30) days following the termination of the Purchase Option in which to exercise its option to renew the Lease Term under Section 2.1. In no event shall Tenant be permitted to exercise its purchase option under this Section 29 unless it or its affiliate also exercises any purchase option on any other space in the Building and Real Estate.

[Remainder of this page intentionally left blank.]

IN WITNESS WHEREOF, Landlord and Tenant have entered into this Lease as of the 7th
day of March, 2015.

TENANT:
BOARD OF REGENTS, STATE OF IOWA


By: 

Name: Robert Donley

Title: Executive Director

Date: 3.7.16

LANDLORD:
KGRD GREEN BAY, LLC

By: 

Benjamin M. Logsdon

Its: Manager

UNIVERSITY OF IOWA

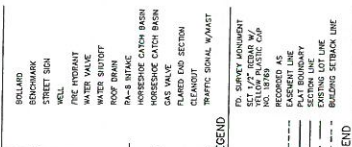
By: 

Name: David W. Kieft

Title: University Business Manager

Date: 2/25/16

EXHIBIT A
(Real Estate)



ECIDUOUS TREE
ONIFEROUS TREE
ECIDUOUS SHRUB

ILITIES, STRUCTURES AND UTILITIES ARE SHOWN FROM THIS
DATE. BEFORE THEIR LOCATION MUST BE CONSIDERED APPROXIMATE
AND NOT EXACT. OTHERS, THE EXISTENCE OF WHICH IS
NOT KNOWN OR SHOWN.

IN BOOK 3150, PAGE 362 STATES THAT THE 20 FOOT SHOWN ON FINAL PLAT OF SCOTT-SIX INDUSTRIAL PARK PRIVATE USE OF LOTS 29-31 AND WAS NEVER INTENDED

VICINITY MAP
NOT TO SCALE

TOTAL AREA:
577.146 SQ.FT.
\$7,246.400000

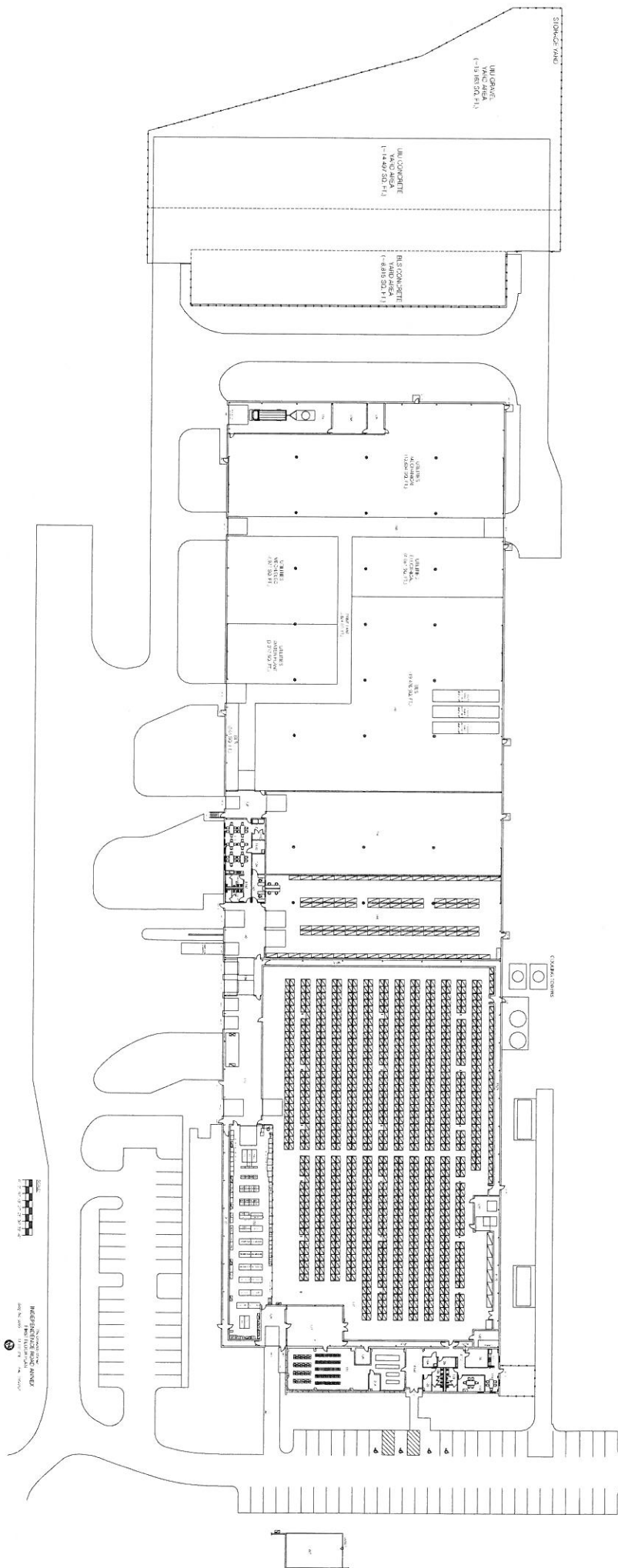
SURVEYOR'S CERTIFICATION
TO OWENS-BROCKWAY PLASTICS PRODUCTS, INC. AND STEWART
TITLE GUARANTY COMPANY:

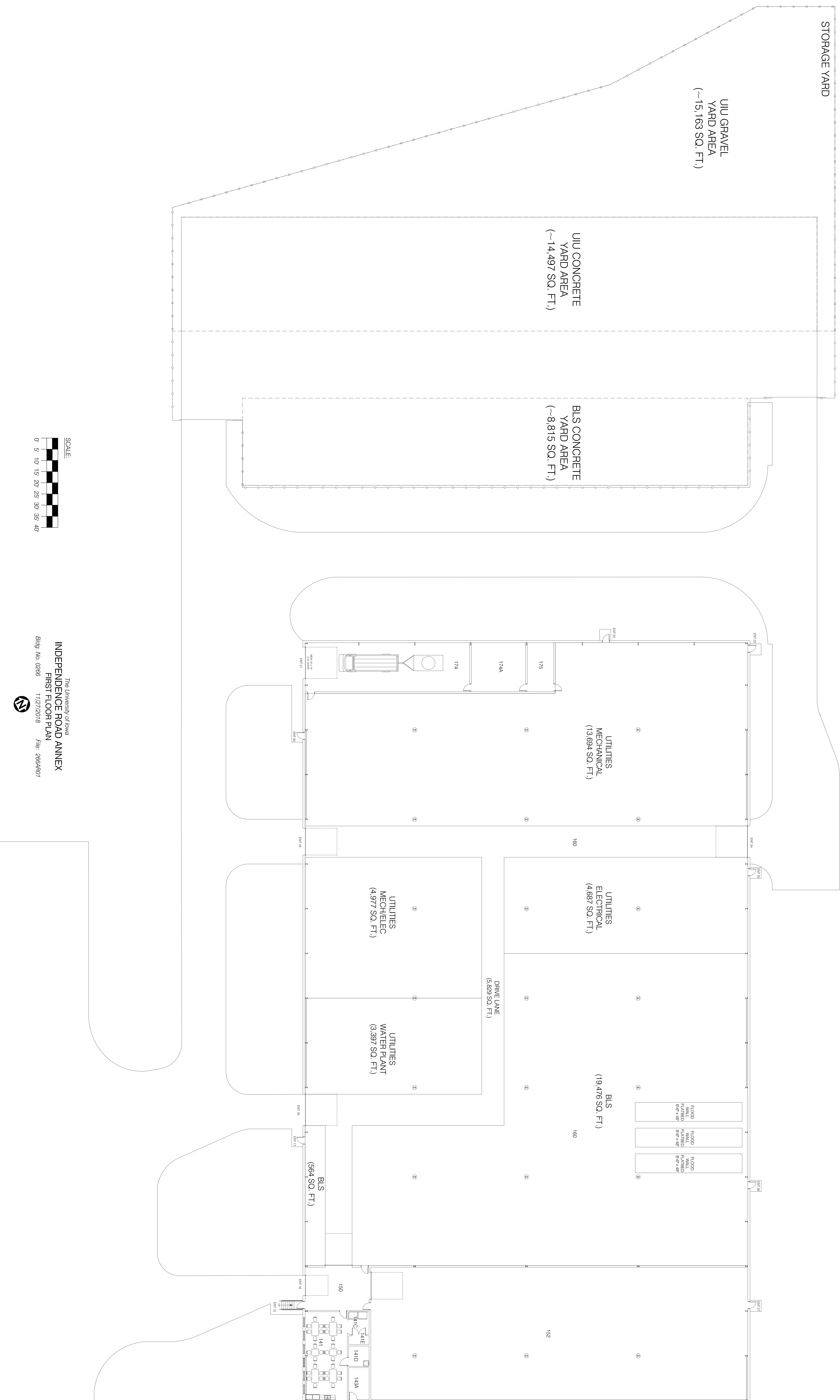
WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEM 7 OF TABLE A THEREOF, THE FIELD WORK WAS COMPLETED ON 9/25/14.


 Printed at the National Archives
 1001 N. 17th St.
 PHILADELPHIA, PA. 19104

EXHIBIT B

(Building and Premises, including Initial Rented Area, Secondary Rented Area and Full Rented Area)





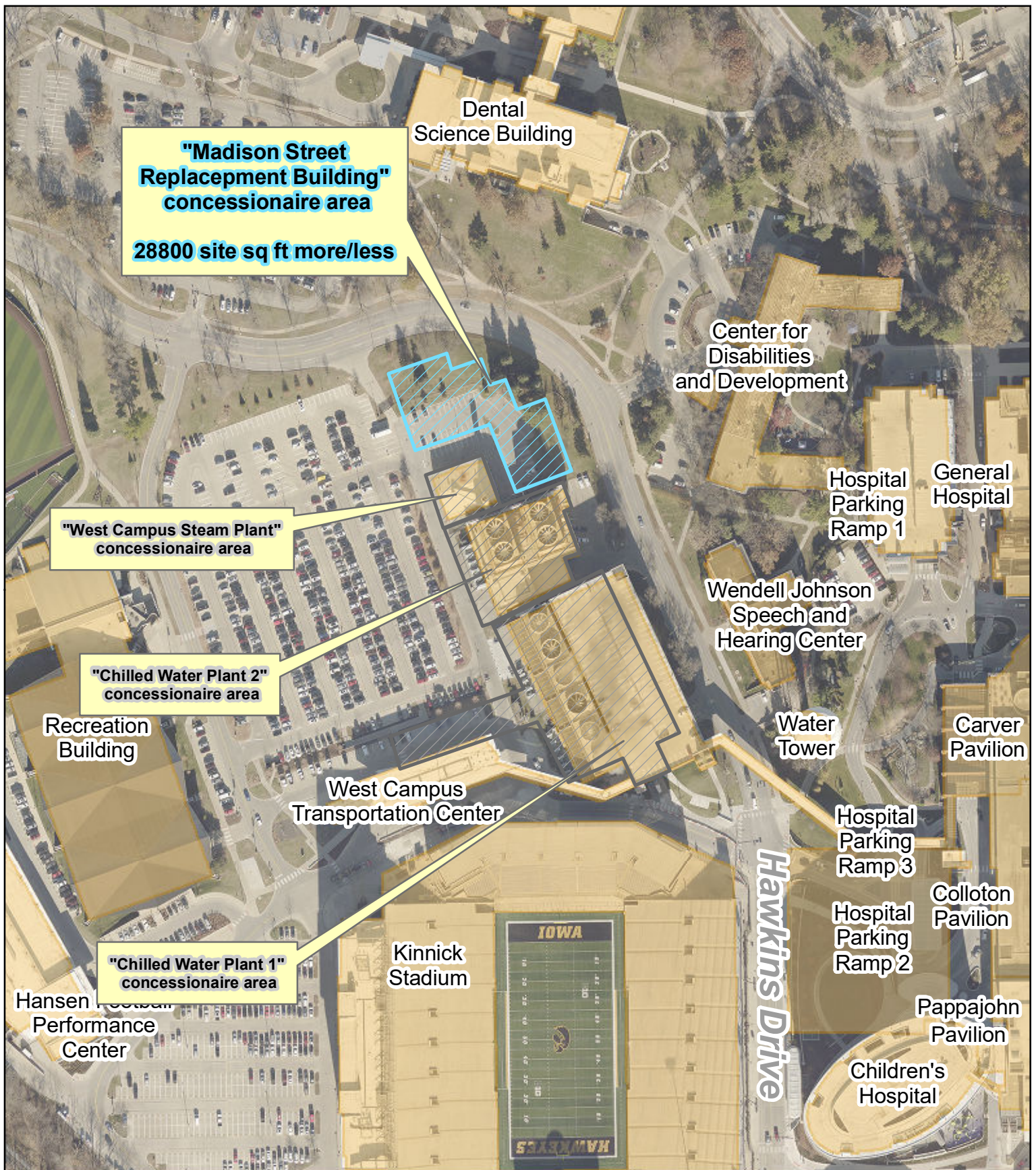
The University of Iowa
INDEPENDENCE ROAD ANNEX
FIRST FLOOR PLAN
Bldg. No. 0266 11/27/2018 File: 266AR01



SCHEDULE 25

MADISON STREET REPLACEMENT BUILDING AREA

[SEE ATTACHED]



Wednesday, October 09, 2019

Document Name: 20191009_Concession_Property_Madison_Str_Replace



1" = 200'

**Location Map:
Madison Street
Replacement Building
Hawkins Drive**

**Total Area = 28800 site Sq Ft
or 0.66 acre more/less**

SCHEDULE 26

UTILITY SYSTEM ELECTRICAL LIGHTING MAP

[SEE ATTACHED]

University of Iowa Main Campus Electric Lighting

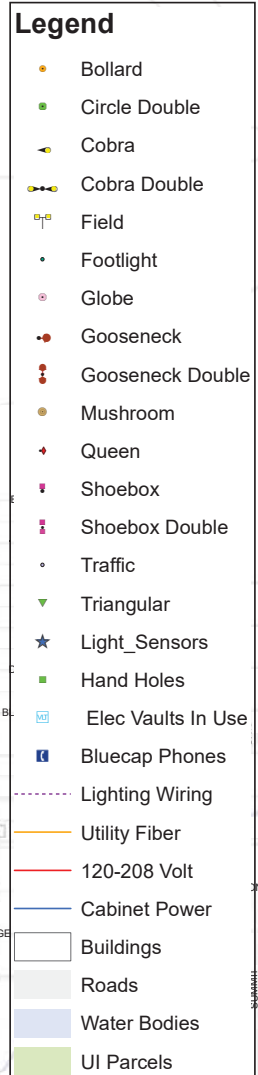
The map displays the University of Iowa Main Campus, highlighting the electric lighting infrastructure. The legend identifies various lighting fixtures and wiring types. The map includes a scale bar (0 to 2,600 feet) and a north arrow. The campus is divided into UI Parcels, and the map shows the locations of buildings, roads, and water bodies. The lighting infrastructure is overlaid on the map, showing the distribution of various lighting fixtures and wiring types across the campus.

Legend

- Bollard
- Circle Double
- Cobra
- Cobra Double
- Field
- Footlight
- Globe
- Gooseneck
- Gooseneck Double
- Mushroom
- Queen
- Shoebox
- Shoebox Double
- Traffic
- Triangular
- Light Sensors
- Hand Holes
- Elec Vaults In Use
- Bluecap Phones
- Lighting Wiring
- Utility Fiber
- 120-208 Volt
- Cabinet Power
- Buildings
- Roads
- Water Bodies
- UI Parcels

Scale: 0 to 2,600 feet

North Arrow



10,600 Feet

University of Iowa Research Park and Oakdale Campus Electric Lighting

Legend

- Bollard
- Circle Double
- Cobra
- Cobra Double
- Field
- Footlight
- Globe
- Gooseneck
- Gooseneck Double
- Mushroom
- Queen
- Shoebox
- Shoebox Double
- Traffic
- Triangular
- ★ Light_Sensors
- Hand Holes
- Elec Vaults In Use
- Bluecap Phones
- Lighting Wiring
- Utility Fiber
- 120-208 Volt
- Cabinet Power
- Buildings
- Roads
- Water Bodies
- UI Parcels



SCHEDULE 27
NON-CHILLED WATER BUILDINGS

[SEE ATTACHED]

Bldg/Property #	Building Name	Campus
0015	Halsey Hall	Main
0016	Communications Center	Main
0021	Art Building	Main
0024	Stanley Hydraulics Lab	Main
0039	Presidents Residence	Main
0044	Currier Hall	Main
0112	Hillcrest Hall	Main
0115	South Quad	Main
0128	Duane Banks Field	Main
0132	Landscape Services Complex	Main
0134	Dey House	Main
0160	Madison Street Services Building	Main
0183	Iowa Memorial Union Parking Ramp	Main
0213	Inst for Rural and Env Health	Oakdale
0220	Hospital Parking Ramp 1	Main
0227	Technology Innovation Center	Oakdale
0230	Oakdale Studio A	Oakdale
0242	Oakdale Shops Building A	Oakdale
0243	Oakdale Shops Building B	Oakdale
0244	Oakdale Storage K (Bat Cave)	Oakdale
0246	Oakdale Shops Building C	Oakdale
0252	Oakdale Well House	Oakdale
0273	Rienow Hall	Main
0274	Slater Hall	Main
0277	Stanley Hall	Main
0291	Oakdale Shops Building D	Oakdale
0305	Oakdale Research Facilities	Oakdale
0309	UIHC Central Emerg Pwr Gen Fac	Main
0330	Physiology Research Laboratory	Oakdale
0370	Iowa Geological Survey	Oakdale
0373	Hydraulics Annex 1	Oakdale
0374	Carver-Hawkeye Arena	Main
0382	Research Park Landscape Service	Oakdale
0389	Hope Lodge	Main
0393	Hydraulics Wind Tunn Anx	Main
0403	Hospital Parking Ramp 2	Main
0413	Oakdale Biology Greenhouse	Oakdale
0420	Hydraulics Wave Basin Facility	Oakdale
0422	N Campus Parking Ramp	Main
0433	Hospital Parking Ramp 4	Main
0434	Levitt Ctr for Univ Advancement	Main
0440	Hydraulics Annex 2	Oakdale
0441	Laundry	Oakdale
0443	Newton Road Ramp	Main
0450	University Services Building	Main

Bldg/Property #	Building Name	Campus
0496	Ronald McDonald House	Main
0497	State Historical Society	Main
0735_13	HPR #3 (Chiller Ramp)	Main

SCHEDULE 28

ACCESS PROTOCOLS

The following items describe protocols applicable to the University's limited rights to access as set forth in the "**LONG-TERM LEASE AND CONCESSION AGREEMENT FOR THE UNIVERSITY OF IOWA UTILITY SYSTEM**" dated December __, 2019 (as amended, the "**Concession Agreement**"). In accordance with Section 3.7(d) of the Concession Agreement, access to the Utility System by the University and its staff, students and Representatives ("University Personnel") pursuant to Sections 3.7(a)(i), (iv), (v) or (vi) and 3.7(c) of the Concession Agreement shall be permitted only (i) as described in Part B below (Permitted Access) and in compliance with Part A below (Conditions of Access) or (ii) if not otherwise addressed, with the consent of the Concessionaire, which shall not be unreasonably withheld, conditioned or delayed, provided that if the Concessionaire has not responded to such request within 5 Business Days, it shall be deemed to have consented to such exercise.

A. Conditions of Access

1. UNIVERSITY UNESCORTED PERSONNEL: PHYSICAL ACCESS AND SAFETY PROTOCOLS

- Prior to access, all unescorted University Personnel must go through orientation, which focuses on the Concessionaire's lifesaving rules and the applicable site-specific policies, including PPE required.
- Any access to **restricted** spaces is coordinated through the Concessionaire. Card/key access is set up, as needed for unescorted University personnel and access requirements are established.
 - **The term 'restricted' has different definitions within different areas of the university. (Ex: student life dorms, medical center facilities, classrooms, research labs etc.) Each department within the University may have different access rules based on their business and building use.*
 - Unescorted University Personnel conducting any activities on the Utility System are required to obtain a visitor badge. The badging process requires personnel first name, last name, driver's license number, mobile phone number and in some cases, birth date. Project name and expected completion date is also required.
 - Badges are assigned and managed by the Concessionaire.
- Unescorted University Personnel will be required to develop Job Safety Analysis (JSA) /Job Safety Plan (JSP) and complete daily and cover the tasks to be completed, any hazards associated with those tasks, and how to mitigate said hazards
 - The JSP will also help denote whether subsequent permits are necessary (confined space, hot work, excavation, etc.)

2. UNIVERSITY UNESCORTED PERSONNEL: NETWORKING ACCESS

- In some cases, unescorted University Personnel may require access to Concessionaire databases including wireless internet, eDNA database and other related networks. In order to obtain access the following must be completed:

- Concessionaire administrator submits application for access on behalf of the University Personnel.
- Application includes first name, last name, date of birth, mobile number and reason for why access is required. Sponsoring entity will submit application for the University's review.
- Once reviewed, and accepted application will be assigned a guest account to the university's database via email access. The University assigns access and accounts are reviewed on an annual basis.

B. Permitted Access

1. REQUESTS FOR EDUCATIONAL TOUR OF POWER PLANT, WATER TREATMENT PLANT, CHILLER PLANTS, ETC.

- Tours are provided on a case-by-case basis and are never guaranteed. Tours of processing areas are at the sole discretion of Concessionaire management, based on safety protocols, requirements, basis of request, status of plant operations and other factors.
- Educational tours are provided about 15 times per year for on-campus educators to illustrate classroom learning in a real operational setting, but the University is not precluded from requesting additional tours subject to the terms hereof. Educators will submit a tour request form to the site administrator for evaluation and submission to management.
- Tours related to learning curriculum are limited to 25 people per group and all participants are required to wear long sleeves, full length pants, close-toed, flat shoes. No sandals or high heels are permitted. The Concessionaire will provide all necessary PPE including hard hats, eye protection and hearing protection.
- The Concessionaire reserves the right to cancel a tour, in its reasonable discretion, based on participants not being properly outfitted for safety requirements or as otherwise necessary for safety or as otherwise reasonably needed by the Concessionaire pursuant to the Concession Agreement.

2. UNIVERSITY RIGHT TO INSPECTION.

- The University's right to inspection under Section 8.3(b) of the Concession Agreement is hereby limited to rights to inspect for safety, ascertaining compliance with the Concession Agreement, and applicable Law, and for additional needs of the University that are consistent with the purpose of Concession Agreement, as may be mutually agreed upon by the University and the Concessionaire from time to time, each acting reasonably. It is anticipated that University inspections will take place no more than 4 times a year unless otherwise mutually agreed upon and will generally be scheduled with reasonable advance notice to the Concessionaire.