

Contact: Joan Racki

REGISTER OF UNIVERSITY OF IOWA
CAPITAL IMPROVEMENT BUSINESS TRANSACTIONS

Actions Requested: Consider:

1. Approval of project descriptions and budgets for the **Power Plant – Install Boiler 10 Natural Gas Burners** (\$5,500,000) and **Utilities Distribution System – Connect Boyd Law Building to Chilled Water System** (\$3,125,000) projects.
2. Receipt of the **University of Iowa Health Care Facilities Master Plan – Building Iowa’s Health Care Future** as part of the University of Iowa Hospitals and Clinics Committee.

Executive Summary:

To reduce dependency on a single fuel supply, the University requests approval of the project description and budget for the **Power Plant – Install Boiler 10 Natural Gas Burners** project. Adding natural gas burners with flue gas recirculation to Boiler 10, a coal-fired boiler installed in 1975, would provide the ability to operate the unit entirely on coal or natural gas, as well as co-fire natural gas with either coal or biomass. The project budget of \$5,500,000 would be funded by utility system bond proceeds, and utility system renewal and improvement funds. (A map showing the location of the proposed project is included in Attachment A.)

The **Utilities Distribution System – Connect Boyd Law Building to Chilled Water System** project, for which the University requests approval of the project description and budget, would connect the Boyd Law Building to the campus chilled water distribution system, replacing cooling by the Building’s cooling towers which are in need of significant repair or replacement. The project budget of \$3,125,000 would be funded by utility system renewal and improvement funds, and building renewal funds. (Attachment B shows the location of the Boyd Law Building and the project.)

Details of the Projects:

Power Plant – Install Boiler 10 Natural Gas Burners

	<u>Amount</u>	<u>Date</u>	<u>Board Action</u>
Permission to Proceed		Oct. 2011	Approved
Design Professional Agreement (PRVN Consultants, Muscatine)	\$ 515,000	Dec. 2011	Not Required*
Project Description and Budget	5,500,000	Feb. 2012	Requested

The installation of natural gas burners will also increase flexibility in meeting new air emission regulations.

Project Budget

Construction	\$4,182,333
Design and Supervision	900,527
Project Contingencies	<u>417,140</u>
TOTAL	<u>\$5,500,000</u>

Source of Funds:

Utility System Bond Proceeds and Utility System Renewal & Improvement Funds

Utilities Distribution System – Connect Boyd Law Building to Chilled Water System

Project Summary

	<u>Amount</u>	<u>Date</u>	<u>Board Action</u>
Permission to Proceed with Project Planning		Sept. 2011	Approved
Selection of Design Professional (Shive-Hattery, Iowa City)		Nov. 2011	Not Required*
Design Professional Agreement	\$ 205,000	Dec. 2011	Not Required*
Project Description and Budget	\$3,125,000	Feb. 2012	Requested

*Approved by Executive Director, consistent with Board policies

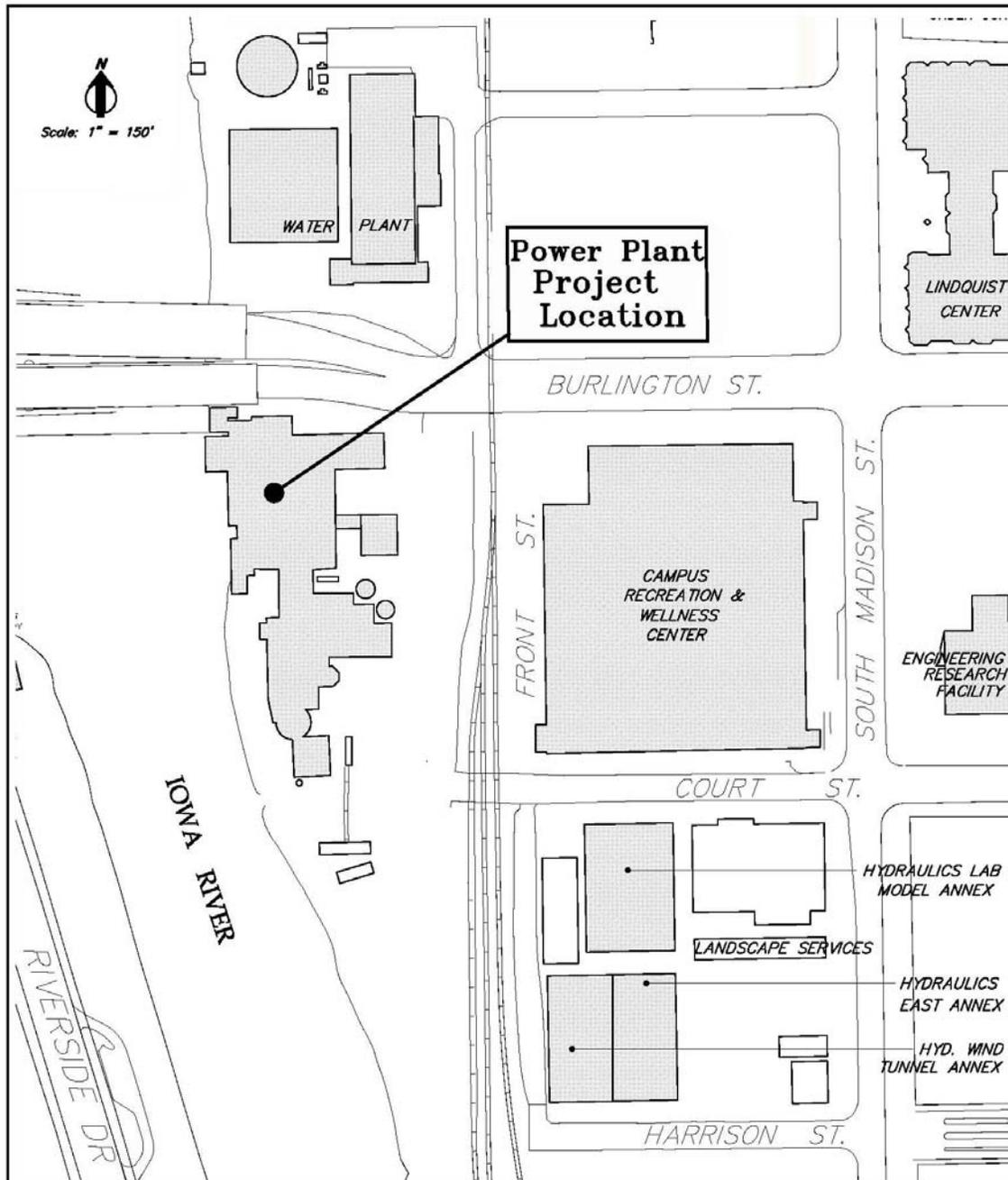
The cooling towers serving Boyd Law Building, which was constructed prior to the development of the University's central chilled water system, are in need of significant repair or replacement. Building projects in the general area have extended the chilled water pipe network to the general vicinity of the Building, making it more economically viable to connect it to the system. The University believes that connecting the Building to the chilled water distribution system is a more cost effective solution than replacing the towers and maintaining an independent cooling system. The project includes extending the chilled water distribution piping, replacing chilled water coils, and removing existing building chilled water generation equipment.

Project Budget

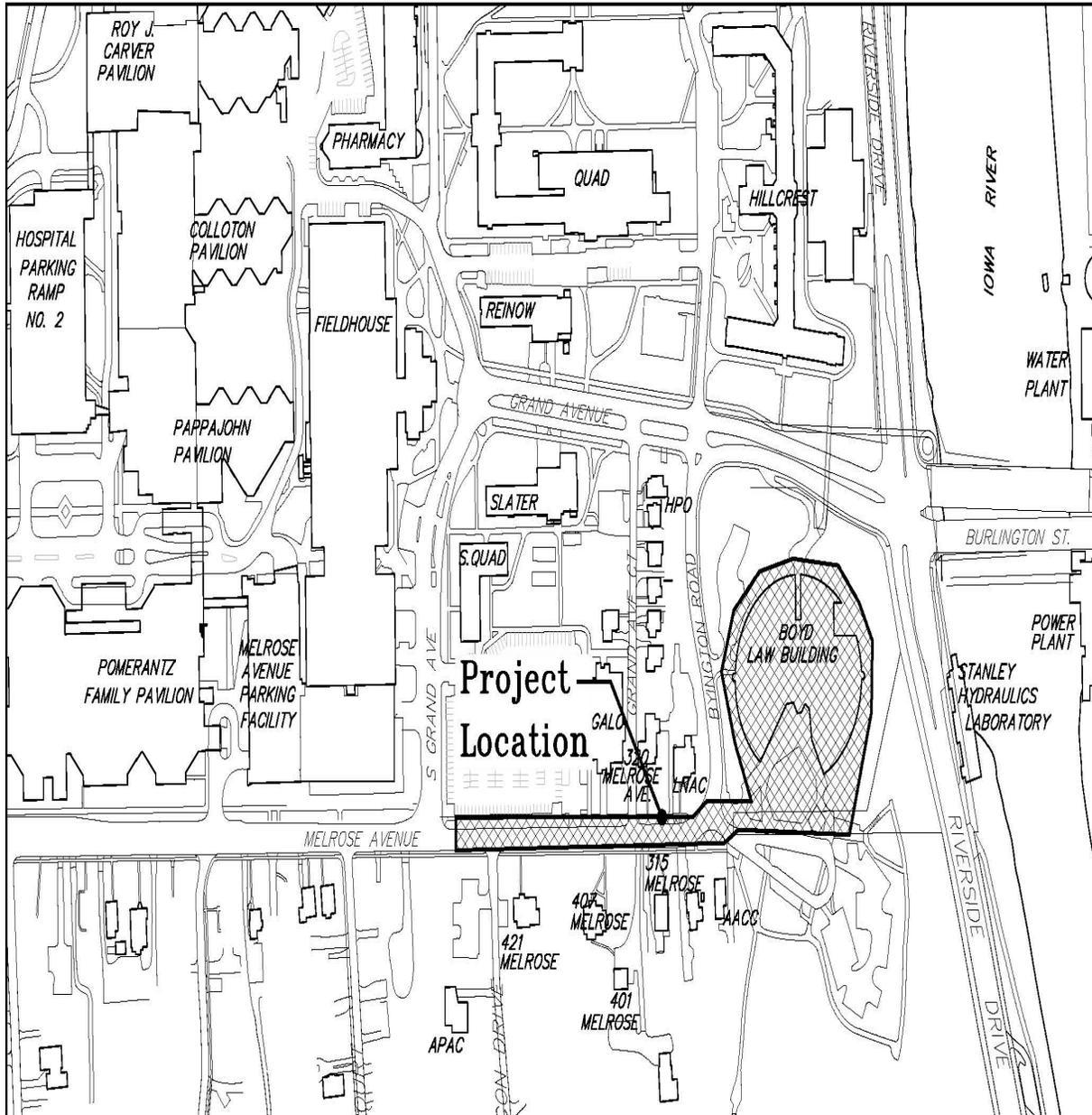
Construction	\$2,448,531
Design and Supervision	432,287
Project Contingencies	<u>244,182</u>
TOTAL	<u>\$3,125,000</u>

Source of Funds:

Utility System Renewal & Improvement Funds and Building Renewal Funds



	<p>THE UNIVERSITY OF IOWA # 0382301 Plotted: Sept. 15, 2011 PPB1r10_NaturalGas_0382301.dwg</p>	<p>Location Map: Power Plant – Install Boiler 10 Natural Gas Burners</p>
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THE UNIVERSITY OF IOWA
3-Exhibits\BOR\
ChilledWaterToBLB.dwg
0369301
Plotted: August 3, 2011



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Scale: 1"=200'

Location Map:
Utilities Distribution System
Connect Boyd Law Building to Chilled Water