

Contact: John Nash

REGISTER OF IOWA STATE UNIVERSITY
CAPITAL IMPROVEMENT BUSINESS TRANSACTIONS

Actions Requested: Consider recommending to the Board approval of:

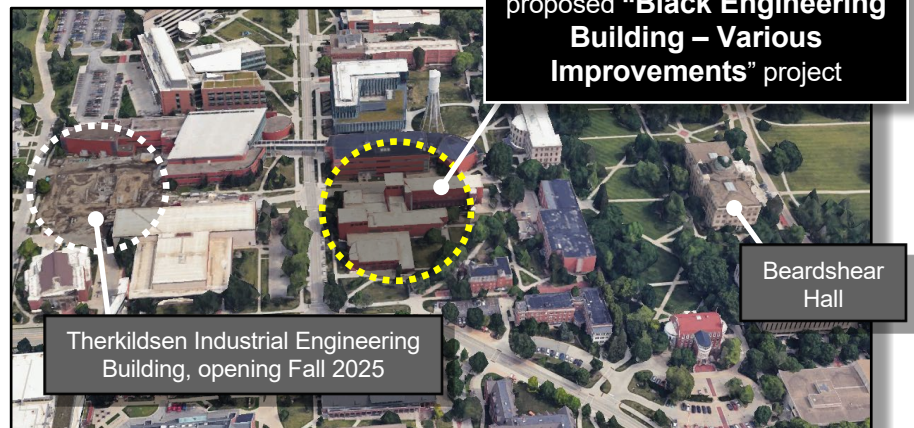
1. Permission to Proceed with Project Planning for the:
 - **Black Engineering Building – Various Improvements** project.

2. Schematic Design, Project Description and Budget for the:
 - **Parking Lots 2025 – Pavement Preservation** project (\$2.75 million),
 - **Human Nutritional Sciences Building – Textiles Science Teaching Laboratory** (\$2.35 million) projects with the understanding that approval is authorization to proceed with construction.

ISU project #1 of 3
Black Engineering Building – Various Improvements

Executive Summary: Iowa State University requests Board approval of the proposed Permission to Proceed with Project Planning to renovate approximately 12,000 square feet in the Black Engineering Building for ISU's Department of Mechanical Engineering. The \$12.6 million to \$14.2 million project budget would be funded by Private Gifts.

Background: In the summer of 2025, ISU's Department of Industrial Manufacturing and Systems Engineering faculty and staff, currently located in the Black Engineering Building, would relocate to the recently constructed Therkildsen Industrial Engineering Building. The vacated space in Black Engineering would then be reallocated to support critical space needs of the Department of Mechanical Engineering.



Iowa State University, west side of Central Campus

This 12,000 square foot renovation project would focus on experimental and computational research labs, offices and support spaces. Evaluation of the building's mechanical, electrical and plumbing systems during the planning phase would inform the renovation. A manifold exhaust system may be considered, which would expand to support labs on multiple floors, providing greater flexibility for research now and in the future.



ISU's Black Engineering Building

The proposed renovation and additional square footage would enable the Department of Mechanical Engineering to further the University's mission to "create, share, and apply knowledge to make our students, Iowa, and the world better", contributing most directly to the "teaching" and "research" pillars in Iowa State University's Strategic Plan.

ISU's Mechanical Engineering department's enrollment increased by 200 students in FY 2025, and research funding doubled over the past five years. The proposed project would provide much-needed space to support the Department of Mechanical Engineering's faculty, graduate students and their research.

Mechanical engineers conduct more chemical and biologically sensitive work and more computational research today than they did 40 years ago when the Black Engineering Building was constructed in 1985.

ISU project #2 of 3
Parking Lots 2025 – Pavement Preservation

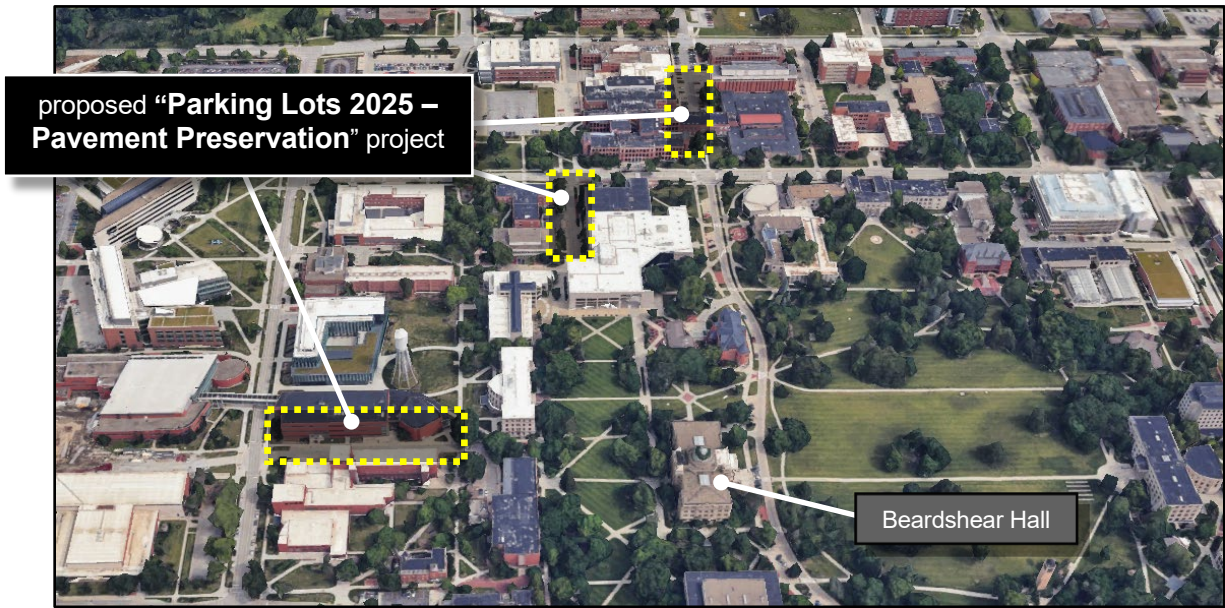
Executive Summary: Iowa State University requests Board approval of the proposed Project Description and Budget to renovate three parking lots and make underground utility improvements.

The \$2.75 million project budget would be funded as follows.
\$2.12 million = Parking System Funds, 77 percent of the project
0.63 million = Utility System Funds, 23 percent of the project
\$2.75 million = Total Project Budget

Background: The renovation work would include replacing select surface parking lots and making utility improvements. Lots are located north of Black Engineering, east of Atanasoff Hall, and east of Physics Hall. New sidewalks, parking lot lighting and site restoration would be included.

The utility improvements would include upsizing high voltage conduits, replacing water mains to provide a redundant loop, increasing water service capacity to Physics Hall and Zaffarano Physics Addition, and repairing failing underground steam tunnel sections.

These parking lots have been ranked in poor condition and have been prioritized based on daily use.



Iowa State University, Central Campus

North



Project Summary

	Amount	Date	Board Action
Design Professional Selection, Indefinite Services Agreement for Civil Engineering ➤ Shive-Hattery, Iowa City		Jul. 2024	Not Required*
Shive-Hattery's Agreement ➤ Topographical Survey – Schematic Design	\$52,000	Aug. 2024	Not Required*
Shive-Hattery's Amendment #1 ➤ Construction Documents – Record Documents	205,000	Oct. 2024	Not Required*
Project Description and Budget	\$2,750,000	Feb. 2025	Requested

* Approved by Executive Director, consistent with Board policy.

Project Budget

Planning, Design & Management	\$2,179,000
Construction	478,930
Contingency	92,070
	\$2,750,000

Source of Funds

University Parking and Utility System Funds

Schedule

Spring 2025 through Summer 2025

ISU project #3 of 3
**Human Nutritional Science Building,
 Textiles Science Teaching Laboratory Remodel**

Executive Summary: Iowa State University requests Board approval of the proposed Schematic Design, Project Description and Budget to renovate over 2,400 square feet across six second floor teaching labs of the Human Nutritional Science Building (HNSB) for ISU’s Textile Science Teaching Lab (TSL). The \$2.35 million project budget would be funded by Private Giving.

Background: TSL is integral to the degree requirements and accreditation of ISU’s nationally ranked Apparel, Merchandising, and Design (AMD) program. In Fall 2024, 258 undergraduate students and 50 graduate students were enrolled in the AMD program with required TSL coursework. The TSL supports undergraduate honors projects and graduate student research at the master and doctoral levels.



Iowa State University’s Central Campus

Located on the second floor of HNSB, the project would co-locate the TSL with the newly renovated multi-disciplinary Textiles Science Research Laboratory and future AMD program teaching laboratories in the new LeBaron Hall, integrating student learning with research.



TSL is temporarily located in Bessey Hall, while the “LeBaron Replacement Hall” project is under construction. The new LeBaron Hall is scheduled to open in Summer 2026.

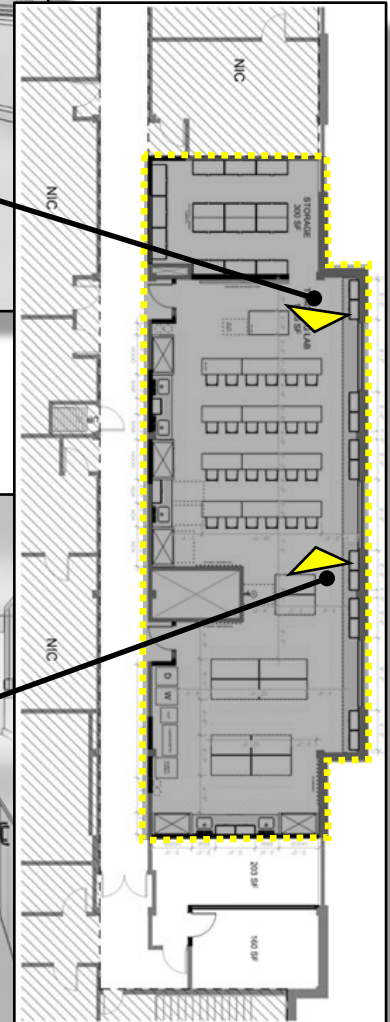


teaching lab, looking south

The project would replace HVAC, interior walls, casework and finishes, while installing new fume hoods.



teaching lab, looking north



Second Floor plan

North



Project Summary

	Amount	Date	Board Action
Design Professional Selection, 8 proposals, 4 interviews			
➤ Brooks, Borg Skiles Architecture Engineering, Des Moines		Sep. 2022	Not Required*
BBS's Agreement			
➤ Preliminary Planning - Schematic Design	25,000	Oct. 2022	Not Required*
BBS's Amendment #1			
➤ Design Development – Construction Documents	105,278	Jan. 2023	Not Required*
BBS's Agreement			
➤ Bidding Documents – Record Documents	35,438	Apr. 2023	Not Required*
Schematic Design		Feb. 2025	Requested
Project Description and Budget	\$2,350,000	Feb. 2025	Requested

* Approved by Executive Director, consistent with Board policy.

Project Budget

Planning, Design & Management	\$ 346,160
Construction	1,847,770
Furniture & Equipment	81,000
Contingency	75,070
	<u>\$ 2,350,000</u>

Source of Funds

Private Giving

Schedule

Spring 2025 to Fall 2025