

Office of the Chief Financial Officer and Treasurer

August 17, 2023

The Honorable Eric J. Holcomb Governor of the State of Indiana Statehouse Indianapolis, IN 46204

Dear Governor Holcomb:

At its meeting on August 4, 2023, the Purdue University Board of Trustees approved the planning, financing, construction and award of construction contracts for the Shreve Hall Electrical Enhancements and Replacement project on the West Lafayette campus.

This project will install new transformers to replace existing ones and replace main and secondary electrical distribution equipment that is at the end of its service life.

The planned work will modernize the electrical distribution system to improve equipment reliability, lighting and the continuance of partial building power during planned outages.

The estimated total project cost is \$4,400,000 and will be fully funded by Auxiliary Funds – Housing/Dining.

Subject to review by the Commission for Higher Education and recommendation by the State Budget Committee and the Budget Agency, we request your approval to proceed with this project. Attached are the completed forms that the Commission has prescribed for its review of such projects. We will be happy to answer any questions you or your staff may have or to provide any additional information that is needed.

Sincerely,

Clcp

Christopher A. Ruhl Chief Financial Officer and Treasurer

#### Attachments

c: Seth Hinshaw, Chief Financial Officer, Indiana Commission for Higher Education Zachary Jackson, Director, Indiana State Budget Agency Jasmine Williams, Assistant Director, Indiana State Budget Kathleen Thomason, Comptroller, Purdue University Anne Hazlett, Senior Director, Government Relations, Purdue University

#### PROJECT COST SUMMARY

Shreve Hall Electrical Enhancements and Replacement

Institution:	Purdue	University		Budget Agency Project No.:			B-1-24-2-05
<u>Campus:</u>	West Lafay			Institutional Priority:		<u>N/A</u>	
Previously app	roved by General Assem	ıbly: <u>No</u>		Previously recommended by (	CHE:		<u>No</u>
Part of the Inst	itution's Long-term Cap	oital Plan: <u>Yes</u>	]				
Project Size:	N/A	N/A ASF (2)	N/A	ASF/GSF			
<u>Net change in c</u>	overall campus space:	N/A GSF	N/A	ASF			
<u>Total cost of th</u> Total cost of th		\$ 4,400,000 \$ -	<u>Cost per ASF/</u>	<u>GSF:</u>	N/A N/A	GSF ASF	
Funding Sourc	e(s) for project (4):	Amount \$ 4,400,000	Aux	Type tiliary Funds - Housing/Dining			
Estimated annu	1al debt payment (6):	\$0					
Are all funds fo	or the project secured:	Yes					
Project Fundin							
The project is bo	eing fully funded by Auxil	iary Funds - Housing/Dinir	ig, and all funds a	ire secured.			
Project Cost Ju	stification						
		not a ASF or GSF associat	ed with the work	This project's scope and cost are	described more in th	e Capital Proje	ct Details
	ial change in cost of buil ial repair and rehabilita	ding operations based on tion investment (5):	the project: \$66,000	\$	-		

(1) Gross Square Feet (GSF)- Sum of all area within the exterior envelope of the structure.

(2) Assignable Square Feet (ASF)- Amount of space that can be used by people or programs within the interior walls of a structure. Assignable square feet is the sum of the 10 major assignable space use categories: classrooms, laboratories, offices, study facilities, special use facilities, general use facilities, health care facilities, residential facilities and unclassified facilities. For information on assignable space use categories, see Space-Room Codes tab.

(3) Projects should include all costs associated with the project (structure, A&E, infrastructure, consulting, FF&E, etc.)

(4) Be consistent in the naming of funds to be used for projects. If bonding, note Bonding Authority Year (1965, 1929, 1927, etc.)

(5) Estimate the amount of funding the institution would need to set aside annually to address R&R needs for the project. CHE suggests 1.5% of total construction cost

(6) If issuing debt, determine annual payment based on 20 years at 4.75% interest rate

- If project is a lease-purchase or lease, adjust accordingly. Note the total cost of the lease in the project cost, and annual payments in project description

# **PROJECT DETAILED DESCRIPTION - ADDITIONAL INFORMATION**

Shreve Hall Electrical Enhancements and Replacement

Institution:	Purdue University	<b>Budget Agency Project No.:</b>	<u>B-1-24-2-05</u>
Campus:	West Lafayette	Institutional Priority: <u>N/A</u>	
	· · · · ·		
Description of P	roject		
	enhance the electrical distribution system currently loca	ited in Shreve Residence Hall on the West Lafaye	ette campus. This
project will instal	l two new transformers to replace existing transformers	and replace main and secondary electrical distri	bution equipment
	formers and main electrical distribution equipment are		
U	In order to allow students to reside in the building and t	o accommodate long lead times for new equipme	ent, work will be
completed during	the summers of 2025 and 2026.		
Need and Purpos	se of the Program		
	lectrical distribution equipment is 50-60 years old and r	nearing or past its service life. With the age of the	e equipment,
replacement parts	are no longer available, making repairs difficult. This	project will improve lighting and equipment relia	bility through the
modernization of	the building's electrical distribution system. The enhan	ced system will allow power to be shut down to p	portions of the
U U	etrical work needs to be performed, allowing operation		rently, power to
the entire building	g must be shut down to safely work on building power s	ystems.	
This project is inc	cluded in Purdue's FY24 Repair and Rehabilitation budg	get.	
Space Utilization			
	l use (recreation) space will be repurposed as utility spa	ace.	
8			
	• /		
Comparable Pro			
$o \square $ \$825,000	former Replacement (2017)		
	replaced the gear inside of the existing vault and include	ed some masonry rework	
o I mis project i	eplaced the gear histoe of the existing vaut and hierdo	some mason y rework.	
Shreve Residence	Hall is a larger building than Owen Residence Hall and	d requires larger electrical service and equipment	t as a result. More
	mount of equipment is being replaced in Shreve compar		
	size. These differences account for the higher cost of th		p
		- Froheren Frejeen	
Background Ma	terials		

#### CAPITAL PROJECT REQUEST FORM INDIANA PUBLIC POSTSECONDARY EDUCATION INSTITUTION CAMPUS SPACE DETAILS FOR Shreve Hall Electrical Enhancements and Replacement

	(	Current Campus Tota	ils		Capital F	Request	
(INSERT PROJECT TITLE AND SBA No.)	Current Space in Use	Space Under Construction (1)	Space Planned and Funded (1)	Subtotal Current and Future Space	Space to be Terminated (1)	New Space in Capital Request (2)	Net Future Space
A. OVERALL SPACE IN ASF							
Classroom (110 & 115)	335,609	(2,532)	18,301	351,378	-	-	351,378
Class Lab (210,215,220,225,230,235)	798,413	(16,463)	24,260	806,210	-	-	806,210
Non-class Lab (250 & 255)	1,705,678	25,281	(662)	1,730,297	-	-	1,730,297
Office Facilities (300)	2,337,380	(46,473)	26,472	2,317,379	-	-	2,317,379
Study Facilities (400)	416,131	55,895	13,307	485,333	-	-	485,333
Special Use Facilities (500)	1,207,887	8,486	1,124	1,217,497	-	-	1,217,497
General Use Facilities (600)	977,156	(27,128)	16,892	966,920	(60)	-	966,860
Support Facilities (700)	2,881,468	(876)	(8,559)	2,872,033	-		2,872,033
Health Care Facilities (800)	220,687		(1,900)	218,787	-	-	218,787
Resident Facilities (900)	2,424,325	-	111,146	2,535,471	-		2,535,471
Unclassified (000)	129,184	-	-	129,184	-	-	129,184
<b>B. OTHER FACILITIES</b>							
(Please list major categories)							
TOTAL SPACE	13,433,918	(3,810)	200,381	13,630,489	(60)	-	13,630,429

Notes:

- Space/Room codes based on Postsecondary Ed Facilities Inventory and Classification Manual (2006)

(1) Identify in a footnote the specific facilities that are included in the data in these columns. Do not include pending approval, non-submitted projects or non-funded projects

Space under construction includes:

- Schleman/Stewart Renovation

- Whistler Mechanical Project

- Ross-Ade Stadium Renovation

- Zucrow High Speed Propulsion Lab

- Mackey Locker Rooms Renovation

- Brown Family Hall Renovation

- Libraries Study Space Renovation

- University Hall and Related Renovations

Space planned and funded includes:

- Life Sciences Phenotyping Greenhouse Building

- Nursing and Pharmacy Education Building

- Northwest Chiller Plant System Improvements

- Vawter Hall Electrical Enhancements and Replacement

- PMU 2nd Floor Hospitality Renovation

- Mechanical Engineering Building Renovation

- Birck Nanotechnology Center Clean Room Modernization and Related Renovations

- Chilled Water Capacity Enhancement Projects

- Runway 5-23 and Intermediate Connector Taxiway

- Purdue Airport Terminal

- Grant Street Parking Garage Repairs

- Hillenbrand Residence Hall South

- Shealy Hall Roof Replacement

- University and Schleman Halls Strategic Transformer Replacement

- Wetherill Lab Drain and Supply Line Replacement Phase I

(1) Spaces to be terminated include general use (recreation) space that will be repurposed as utility space.

(2) There is no assignable space added as part of this project.

### **CAPITAL PROJECT COST DETAILS**

Shreve Hall Electrical Enhancements and Replacement

<u>Institution:</u> <u>Campus:</u>	<u>Purdue University</u> West Lafayette		<u>Budget Agen</u> Institutional	icy Project No.: Priority:	<u>N/A</u>	<u>B-1-24-2-05</u>
<u>ANTICIPAT</u>	ED CONSTRUCTION SCHEDULEMonthBid DateJanuaryStart ConstructionMayOccupancy (End Date)August	<u>Year</u> 2024 2025 2026				
<u>ESTIMATEI</u>	O CONSTRUCTION COST FOR PROJECT	Cost Basis (1)	Estimated Escalation Factors (2)	Project Cost		
	Planning Costs a. Engineering b. Architectural c. Consulting	\$         230,000           \$         70,000           \$         -		N/A N/A N/A		
	<u>Construction</u> a. Structure (Civil) b. Mechanical c. Electrical	\$ 700,000 \$ - \$ 3,100,000		N/A N/A N/A		
	<u>Movable Equipment</u> <u>Fixed Equipment</u> <u>Site Development/Land Acquisition</u> <u>Other (PM fee, insurance, contingencies, printing)</u>	\$         -           \$         100,000           \$         -           \$         200,000		N/A N/A N/A N/A		
	TOTAL ESTIMATED PROJECT COST	\$ 4,400,000	\$-	N/A		

(1) Cost Basis is based on current cost prevailing as of: (INSERT MONTH AND YEAR)

(2) Explain in the Description of Project Section of the "Cap Proj Details" schedule the reasoning for estimated escalation factors

## CAPITAL PROJECT OPERATING COST DETAILS

Shreve Hall Electrical Enhancements and Replacement

<u>oject No.:</u> <u>ity:</u> <u>OF AREA AFFECT</u> Person ng Cost Servic	<u>N/A</u> TED BY PROJECT N/A nal Supplies and	<u>-1-24-2</u>
<u>OF AREA AFFECT</u> Person	TED BY PROJECT <mark>N/A</mark> nal Supplies and	L
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(1) Based on figures from "Individual Cap Proj Desc" schedule