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FOR
FACILITIES PLANNING AND CONSTRUCTION
COMMITTEE**

Committee Meeting: 4/30/2018

Board Meeting: 5/1/2018
Houston, Texas

R. Steven Hicks, Chairman
Ernest Aliseda
David J. Beck
Kevin P. Eltife
Jeffery D. Hildebrand
Rad Weaver

	Committee Meeting	Board Meeting	Page
Convene	<i>10:00 a.m.</i> <i>Chairman Hicks</i>		
1. U. T. System Board of Regents: Discussion and appropriate action regarding Consent Agenda items, if any, assigned for Committee consideration	<i>10:00 a.m.</i> Discussion	Action	148
 <u>Report</u>			
2. U. T. System: Interim Assessment of Hybrid Project Delivery Pilot	<i>10:01 a.m.</i> Report/Discussion <i>Mr. O'Donnell</i> <i>Mr. Rawski</i> <i>Dr. Ekerdt</i>	Not on Agenda	149
 <u>Additions to the CIP</u>			
3. U. T. Austin: Energy Engineering Building - Amendment of the FY 2018-2023 Capital Improvement Program to include project	<i>10:20 a.m.</i> Action <i>President Fenves</i>	Action	150
Adjourn	<i>10:30 a.m.</i>		

1. **U. T. System Board of Regents: Discussion and appropriate action regarding Consent Agenda items, if any, assigned for Committee consideration**

RECOMMENDATION

The proposed Consent Agenda item assigned to this Committee is [Item 42](#).

2. U. T. System: Interim Assessment of Hybrid Project Delivery Pilot

REPORT

Since 2015, progress has been made in implementing the Hybrid Project Delivery Pilot (formerly the Hybrid Project Delivery Initiative) in the planning and construction of previously designated pilot projects as well as other major projects within the Capital Improvement Program (CIP). The application of private sector capital project delivery best practices to selected pilot projects has resulted in building optimization and cost savings. Associate Vice Chancellor O'Donnell will provide an update on the status of pilot projects, the successes achieved, challenges encountered to date, and recommended next steps.

3. U. T. Austin: Energy Engineering Building - Amendment of the FY 2018-2023 Capital Improvement Program to include project

RECOMMENDATION

The Chancellor concurs in the recommendation of the Deputy Chancellor, the Executive Vice Chancellor for Academic Affairs, the Executive Vice Chancellor for Business Affairs, and the institutional president that the U. T. System Board of Regents amend the Fiscal Year 2018-2023 Capital Improvement Program (CIP) to include the Energy Engineering Building project at The University of Texas at Austin.

BACKGROUND INFORMATION

Previous Actions

On August 1, 2016, the Chancellor approved this project for Definition Phase. On November 10, 2016, the Board approved \$100 million in Permanent University Fund Bond Proceeds for this project.

Project Description

The Energy Engineering Building will provide critically needed education and research space for the Cockrell School of Engineering. The project is central to achieving the Cockrell School of Engineering's vision to be a globally recognized leader in multidisciplinary innovation dedicated to solving the pressing societal problems of the 21st century and beyond, driving future economic progress, and improving the quality of life. Through modular laboratories and integration of undergraduate education, graduate research, and co-location of research and education programs, this project will bring a new paradigm for energy engineering education and research to the university.

This proposed project has been approved by U. T. System staff and meets the criteria for inclusion in the CIP. Approval of design development plans and authorization of expenditure of funding will be presented to the Board for approval at a later date.

**The University of Texas at Austin
Energy Engineering Building**

Project Information

Project Number	102-853
CIP Project Type	New Construction
Facility Type	Laboratory, General
Management Type	Institutionally Managed
Institution's Project Advocate	John Ekerdt, Associate Dean for Research, Cockrell School of Engineering
Project Delivery Method	Construction Manager-at-Risk
Gross Square Feet (GSF)	183,200

Project Funding

	<u>Proposed</u>
Permanent University Fund Bond Proceeds	\$100,000,000
Gifts ¹	\$ 60,000,000
Unexpended Plant Funds	<u>\$ 5,000,000</u>
Total Project Cost	<u>\$165,000,000</u>

¹ In hand \$14,712,778; Pledged \$13,132,620; Not yet raised \$32,154,602

Project Cost Detail

Building Cost	\$ 98,450,000
Fixed Equipment	3,875,000
Site Development	6,220,000
Furniture and Moveable Equipment	4,150,000
Institutionally Managed Work	14,850,000
Architectural/Design Services	16,353,000
Project Management Fees	4,650,000
Insurance	2,616,000
Other Professional Fees	8,879,000
Project Contingency	4,942,000
Other Costs	<u>15,000</u>
Total Project Cost	<u>\$165,000,000</u>

Building Cost per GSF Benchmarks (escalated to midpoint of construction)

Energy Engineering Building	\$537		
Texas Higher Education Coordinating Board Average - Laboratory, General	\$517		
	Low Quartile	Median	High Quartile
Other U. T. System Projects	\$437	\$494	\$548
Other National Projects	\$409	\$622	\$752

The University of Texas at Austin
Energy Engineering Building
(continued)

Investment Metrics

- Facility to provide co-location of education and research programs by 2021
- Address the current unmet space needs for increased faculty and Ph.D. students by 2021

Project Planning

Definition Phase Completed	Yes
Owner's Project Requirements	Yes
Basis of Design	Yes
Schematic Design	Yes
Detailed Cost Estimate	Yes

Project Milestones

Definition Phase Approval	August 2016
Addition to CIP	May 2018
Design Development Approval	November 2018
Construction Notice to Proceed	December 2018
Substantial Completion	May 2021

Basis of Design

The planned building life expectancy includes the following elements:

Enclosure: 50 years
Building Systems: 30 years
Interior Construction: 20 years