U. T. System: Discussion and appropriate action regarding request for approval of academic institutions' list of projects as submitted to the Texas Legislature for Tuition Revenue Bond funding

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, the Executive Vice Chancellor for Business Affairs, and the Presidents of the respective U. T. System academic institutions that the U. T. System Board of Regents approve the following projects for submission to the Texas Legislature for Tuition Revenue Bond (TRB) funding.

A chart summarizing the projects is set forth on the following pages.

ACADEMIC INSTITUTIONS

U. T. Arlington: Science and Engineering Innovation and Research Building

College of Nursing and Allied Health Professions Academic and

Research Building

U. T. Austin: Robert A. Welch Hall Renovation

McCombs School of Business Renovation

U. T. Dallas: Engineering Building

Science Building

U. T. El Paso: Interdisciplinary Research Facility (Barry/Burges Hall Replacement)

College of Business Administration Complex

U. T. Permian Basin: School of Engineering Building

Kinesiology and Athletic Complex

U. T. Rio Grande Valley:

Brownsville Campus: Multipurpose Academic Center

Fine Arts and Classrooms Building

Student Success and Administrative Building

Pan American Campus: Interdisciplinary Engineering and Academic Studies Building

U. T. San Antonio: Instructional Science and Engineering Building

Peter T. Flawn Building Renovations and Adaptive Reuse

U. T. Tyler: STEM Building

BACKGROUND INFORMATION

If approved for TRB funding by the Legislature, each project will be submitted to the Board of Regents for addition to the Capital Improvement Program and design development approval.

INSTITUTION	NAME OF FACILITY PROPOSED	BRIEF PROJECT DESCRIPTION	PROJECT TYPE	TRB REQUEST	TOTAL PROJECT COST	\$/GSF	OFPC COMPARABLE PROJECTS RANGE (\$/GSF)	OFPC COMPARABLE PROJECTS RANGE AVG (\$/GSF)	ADDITIONAL COMMENTS
UT Arlington	Science and Engineering Innovation and Research Building (SEIR)	•	New Construction and Repair and Rehabilitation	\$ 190,000,000	\$ 211,000,000	\$486	\$323-\$755 Reno; \$577-\$851 New	\$595	Institutional Funds = \$21M RFS
UT Arlington	College of Nursing and Allied Health Professions Academic and Research Building	Priority #2 This project involves the construction of a new 200,000 square foot College of Nursing and Allied Health Professions Academic and Research Building to primarily serve as a multidisciplinary research, development, and training facility. This facility will house state-of-the-art classroom facilities, research lab space for Nursing and Kinesiology, faculty offices, media productions for at-distance instruction, professional advising staff located in an enrollment and student services center, computer testing centers/labs and an expanded Smart Hospital. The building will further serve to enhance collaborations with other existing units having emphases in the area of "Health and Human Condition". The proposed building will provide the much needed space to address the growing needs of the College of Nursing and Allied Health Professions allowing enrollment in this discipline to increase (double) to meet the nursing and other healthcare needs of the State of Texas. The facility will also address an overcrowded condition in the Department of Kinesiology providing state-of-the-art research lab space this is desperately needed.		\$ 99,000,000	\$ 110,000,000	\$550	\$480 - \$849	\$614	Institutional Funds = \$11M RFS

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UT Austin	Robert A. Welch Hall Renovation	Priority #1 This project involves the renovation of the existing 312,420 GSF Robert A. Welch Hall building and will help transform the College of Natural Sciences (CNS) into a multidisciplinary program-based organization and will improve their ability to recruit and retain talented faculty and accommodate program growth projections. The renovation will provide modern laboratory and classroom spaces, as well as new infrastructure to support the teaching and research mission of the College. The renovation will allow for flexible responses to changes in science research and education, and Improved space utilization will allow CNS to achieve its strategic goals in terms of enrollment, research funding, and development of interdisciplinary programs.	Repair and Rehabilitation	\$ 100,000,000	\$ 125,000,000	400	\$302 - \$768	\$452	Institutional Funds = \$25M Unexpended Plant Funds
UT Austin	McCombs School of Business Renovation	Priority #2 This project involves a major renovation of the existing McCombs School of Business buildings on the University of Texas at Austin campus to create an expanded center to support needed innovations in the curriculum, such as team exercises and use of technology, that are impossible in the current facilities. The project will include a variety of renovations and building systems upgrades on all floors and areas of the existing buildings, including approximately 384,000 GSF. This includes creating new, highly flexible classrooms, offices and support areas. The renovation will enable the School to add faculty, thus reducing the student-to-faculty ratio, consistent with the strategic plan.	Repair and Rehabilitation	\$ 105,000,000	\$ 170,000,000	\$443	\$429 - \$692	\$524	Institutional Funds = \$40M Gifts and \$25M Unexpended Plant Funds
UT Dallas	Engineering Building	Priority #1 This project involves a 200,000 square foot, multi-story building that will accommodate enrollment of 2,000 additional students, 57 tenured and tenure-track faculty members, and 10 senior lecturers for the School of Engineering and Computer Science. UT Dallas urgently needs additional space to accommodate expanded student enrollment, increased degree production, and improved graduation rates. Space is becoming UT Dallas's limiting factor in meeting its objective to become a major, nationally competitive "tier one" research university serving highly qualified students who may otherwise leave Texas.	New Construction	\$ 99,000,000	\$ 110,000,000	\$550	\$523 - \$735	\$652	Institutional Funds = \$11M RFS
UT Dallas	Science Building	Priority #2 This project will contain approximately 175,000 square foot that will provide efficiently designed space to support the optimal productivity of the faculty and staff of the UT Dallas Departments of Physics and of Mathematical Sciences as they carry out their teaching, advising, and research activities. The building will also provide acutely needed space for classrooms specifically designed for math and physics instruction, and laboratories both for instruction and for those types of physics research that do not involve specialized infrastructure elements. This building will accommodate university growth of 1,750 additional students, 50 tenured and tenure-track faculty members, and 20 senior lecturers. A well-designed building of adequate size will directly improve student success in these two "gateway" disciplines and provide new synergistic energy in research projects founded in theoretical and computational science.	New Construction	\$ 95,000,000	\$ 95,000,000	\$543	\$342-\$684	\$515	

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UT El Paso	Interdisciplinary Research Facility (Barry/Burges Hall Replacement)	Priority #1 This project will construct a 293,000 square foot building which will integrate research, institutional research support and teaching spaces. The proposed facility supports UTEP's long established vision to become the first national research university with a 21st century demographic. The proposed facility will require demolition of two adjacent and underutilized campus buildings, both of which were originally constructed as student dormitores nearly 50 years ago. Replacing them with a state-of-the-art research facility will make productive and efficient use of this prime location and will help accelerate UTEP's progress toward becoming a nationally recognized research university.	New Construction	\$ 117,000,000	\$ 130,000,000	\$355	\$348 - \$649	\$485	Significant demolition included in TPC. Institutional funds = \$13M Local funds
UT EI Paso	College of Business Administration Complex	Priority #2 This project will construct a new College of Business Administration (COBA) Complex comprising 215,000 GSF/139,750 NASF. The complex will accommodate all COBA undergraduate and graduate programs, an Executive Education Center and academic conference space. The proposed project will contribute significantly to the implementation of UTEP's strategic plan and its continued progress toward becoming the first national research (Tier One) university with a 21st century student demographic. It will increase capacity to recruit and retain highly competitive faculty members, as well as graduate and undergraduate students with whom they will work, and greatly expand business education opportunities at all levels for residents of the surrounding region.	New Construction	\$ 94,500,000	\$ 105,000,000	\$366	\$323 - \$520	\$487	"\$/GSF" is for new building only. Costs for Parking Structure (\$19,000/space = \$9.5M) is within range for UTEP design standards. Thermal plant (\$1.5M) is appropriate for 500 Tons + back-up and utilities. Institutional Funds = \$10.5M.
UT Permian Basin	School of Engineering Building	Priority #1 The project calls for the construction of an estimated 80,000 GSF engineering building on the Midland campus to provide more efficient operation of current bachelor's degree programs in petroleum and mechanical engineering; programs of critical importance to the continued growth of the regional economy. The facility will also allow space for Industrial Technology program expansions in areas relevant to the petroleum industry. The building will include space for classrooms, instructional labs, research endeavors, administrative offices and student support services.		\$ 60,000,000	\$ 60,000,000	\$750	\$589 - \$863	\$733	Significant premium for complex construction in Midland / Odessa
UT Permian Basin	Kinesiology and Athletic Complex	Priority #2 This project will house the Kinesiology Department classrooms, labs, offices, and storage areas; house the Athletic Training Major's classrooms, lab, training room, storage, and office spaces; house a Strength and Conditioning Center for Kinesiology, Athletics, and student recreational use; provide locker rooms, office space, storage space, and restroom facilities for all outdoor athletic teams (Baseball, Softball, Men's Soccer, Women's Soccer, Cross Country, Track, Golf, & Tennis); and provide athletics with satellite administration office space. State-of-the-art labs will enhance the department's ability to recruit additional students and enhance SCH generation at both the undergraduate and graduate levels.	New Construction	\$ 6,250,600	\$ 8,450,600	\$200	\$352 - \$479	\$414	No premium added: Simple construction. Institutional Funds = \$2.2M

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UT Rio Grande Valley (Brownsville Campus)	Multipurpose Academic Center	Priority #1 The project will add an academic facility with a total of 177,527, GSF. The facility will include 132,527 GSF for much needed classrooms for science, biology, chemistry, environmental sciences, and physics and an additional 45,000 GSF will provide space for general purpose classrooms. 294,955 GSF is currently being leased from TSC and other private property owners. The lifespan of the leases is between two and six years; therefore, UTRGV Brownsville campus has an urgent need to begin to construct new buildings for classroom space, science labs and student support services to meet current enrollment needs. Failure to acquire additional space will seriously curtail the future growth of the Brownsville campus of UTRGV. Without state support, the project will be deferred indefinitely.	New Construction	\$ 50,600,000	\$ 50,600,000	\$285	\$308 - \$496	\$464	
UT Rio Grande Valley (Brownsville Campus)	Fine Arts and Classrooms Building	Priority #2 This project will construct a Fine Arts and Classroom building with a total of 155,174 GSF to provide music education teaching space and general purpose classrooms. This space is needed to replace space that is currently being leased from TSC. It will provide some additional space to accommodate student enrollment. The facility wil include 30,000 GSF of flexible learning spaces to serve not only music education but other disciplines as well. Without state support, the project will be deferred indefinitely.	New Construction	\$ 50,400,000	\$ 50,400,000	\$325	\$433 - \$568	\$517	
UT Rio Grande Valley (Brownsville Campus)	Student Success and Administrative Building	Priority #3 This project will construct 181,715 GSF for a Student Success and Administrative Building. A total of 154,282 GSF is needed to replace space that is currently being leased from TSC and provide additional space to accommodate student enrollment in the areas of student support and services. Included will be 27,433 GSF for learning enrichment spaces that would include collaborative spaces equipped with technology to interact with students located in any of the locations of UTRGV. Without state support, the project will be deferred indefinitely.	New Construction	\$ 54,700,000	\$ 54,700,000	\$301	\$267-\$350	\$324	
UT Rio Grande Valley (Edinburg Campus)	Interdisciplinary Engineering and Academic Studies Building	Priority #1 This project will create an additional 124,304 GSF with 80,798 assignable square feet of much needed space. The spaces will include a large lecture auditorium with a 250-seat capacity, several 150-seat lecture halls, 60-seat classrooms, and faculty offices. Although particular emphasis will be placed on preparation of engineering students, this flexible facility will also address space requirements for other disciplines as needed. The project will also include an outdoor pavilion to be used as a gathering area and study space to relieve pressure on more expensive indoor space and also to support academic events. Without state support, the project will be deferred indefinitely.	New Construction	\$ 42,500,000	\$ 50,000,000	\$402	\$433 - \$544	\$499	Institutional Funds = \$7.5M with \$5M from RFS and \$2.5M from Gifts

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UT San Antonio	Instructional Science and Engineering Building	Priority #1 This project includes a new 175,000 GSF Instructional Science and Engineering Building (ISE) that will provide an additional 105,000 assignable square feet. Subject to further program development, the proposed facility is expected to provide 60,000 ASF of teaching labs, 12,000 ASF of classrooms, 18,000 ASF of faculty offices and 15,000 ASF of engineering research labs. The ISE is a critical element in the University's strategic plan for providing state-of-the-art space for Science, Technology, Engineering, and Mathematics (STEM) education and research. It will also support programs that enhance the teaching skills of students preparing them for careers in science instruction at K 12 institutions.		\$ 95,000,000	\$ 115,000,000	\$657	495 - 788	\$635	Project includes a high percentage of tech-enabled science and engineering teaching labs, fume hoods, flex teaching spaces. Institutional Funds = \$20M
UT San Antonio	Peter T. Flawn Building Renovations and Adaptive Reuse	Priority #2 This project includes approximately 185,362 GSF of renovations and adaptive reuse of the University's original science building, the Peter T. Flawn Building, to transform technologically obsolete laboratories that will be vacated upon completion of the planned instructional Science and Engineering Building into state of the art classroom and research spaces ensuring that the University's STEM teaching facilities reflect up-to-date technology, safety, and security characteristics. This project will address both the University's classroom space deficit, capital renewal backlog, and need for faculty expansion. In addition to creating more classrooms, this renovation and adaptive reuse will include a Learning Commons that will provide the space and resources necessary to support STEM education outside of the classroom. The Learning Commons will offer library resources, tutoring facilities and group study spaces designed to support the emphasis on teamwork and communications that is integral to the STEM curriculum.	Repair and Rehabilitation	\$ 42,500,000	\$ 42,500,000	\$229	\$314 - \$437	\$376	

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UT Tyler STEM Building	Priority #1 This project will build a STEM addition to the current Business Building and renovate the existing Building. The new construction portion of the project will include approximately 104,700 GSF and will provide much-needed space for classrooms, student learning, teaching laboratories, and faculty offices. The proposed project will play a central role in facilitating the University's strategy to be a destination campus committed to innovative programs, and will help to attain the goal of 14,000 students by 2020. The existing Business Building houses the Business section of our College of Business and Technology (CBT) and the College of Arts and Sciences (CAS). Due to significant growth in both colleges, the building does not have enough room to hold the Technology portion of CBT, creating a fragmentation of the College. A STEM addition would provide a way to bring the entire college together while creating more space for CAS. The STEM addition will create needed additional room for a projected influx of new Chemistry and Biology majors. The addition will also create room for the newly created University College and allow our academis success and career services programs to move into the academic heart of our campus. Moving our highly successful tutoring and supplemental instruction programs as well as job placement activities to a central academic space, rather than on the fringe of such space where it is currently located, will help our students stay focused on progress toward degree and timely graduation.	n n	\$ 76,000,000	\$ 76,000,000	\$487	\$272 - \$719	\$544	Comparable ranges are weighted averages of space use.

U. T. System: Discussion and appropriate action regarding request for approval of health institutions' list of projects as submitted to the Texas Legislature for Tuition Revenue Bond funding

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Health Affairs, the Executive Vice Chancellor for Business Affairs, and the Presidents of the respective U. T. System health institutions that the U. T. System Board of Regents approve the following projects for submission to the Texas Legislature for Tuition Revenue Bond (TRB) funding.

A chart summarizing the projects is set forth on the following pages.

HEALTH INSTITUTIONS

U. T. Southwestern Medical Center: Vivarium and Research Infrastructure

Reinvestment

U. T. Medical Branch - Galveston: Health Education Center

U. T. Health Science Center - Houston: Renovation and Modernization of Educational

and Research Facilities

New South Campus Building

U. T. Health Science Center - San Antonio: Facilities Renewal and Renovation

U. T. M. D. Anderson Cancer Center: Sheikh Zayed Bin Sultan Nahyan Building for

Personalized Cancer Care (previously approved

by the Board)

U. T. Health Science Center - Tyler: Facility Renovation for Physician Residents

Training

BACKGROUND INFORMATION

If approved for Tuition Revenue Bond (TRB) funding by the Legislature, each project (unless already approved by the Board as indicated above) will be submitted to the Board of Regents for addition to the Capital Improvement Program and design development approval.

INSTITUTION	NAME OF FACILITY PROPOSED	BRIEF PROJECT DESCRIPTION	PROJECT TYPE	TRB REQUEST	TOTAL PROJECT COST	\$/GSF	OFPC COMPARABLE PROJECTS RANGE (\$/GSF)	OFPC COMPARABLE PROJECTS RANGE AVG (\$/GSF)	ADDITIONAL COMMENTS
UT Southwestern Medical Center	Vivarium and Research Infrastructure Reinvestment	Priority #1 Projects will include vivarium additions and renovations on both the South and North Campuses in order to increase overall animal research capacity. A significant portion of this project is to also remodel and modernize aged academic faculty space, teaching facilities, and biomedical laboratories that were constructed 28 to 55 years ago. The expected life of the remodeled space is between 20 and 30 years. In addition, new thermal piping will be constructed to replace aged thermal utility lines corroded by sub-surface water and will have an expected life of 50 to 100 years.	New Construction and Repair and Rehabilitation	\$ 109,800,000	\$ 218,900,000	\$384	\$518 - \$1447	\$1,019	Institutional Funds = \$42M Internal Funds and \$67.1M RFS
UT Medical Branch - Galveston	Health Education Center	Priority #1 This project will consist of 160,000 gross square feet of resilient and advanced technology education space and will promote interprofessional education in the schools of Medicine, Nursing, Health Professions and Graduate Biomedical Sciences. The facility will feature a standardized patient and simulation center to be used by students in all health science disciplines and will include classroom space, conference rooms, educational offices and administrative space to accommodate the planned growth of UTMB's educational programs.	New Construction	\$ 67,800,000	\$ 90,400,000	\$565	\$480 - \$849	\$656	Institutional Funds = \$22.6M Gifts
UT Health Science Center - Houston	Renovation and Modernization of Educational and Research Facilities	Priority #1 This renovation project will include the Medical School Building (882,000 GSF); School of Public Health Reuel A. Stallones Building (232,000 GSF); and University Center Tower-School of Biomedical Informatics (345,000 GSF). The proposed upgrades will ensure efficient functionality in their crucial role of supporting teaching and research. A recent facility audit identified significant renovation and modernization needs in these three buildings which were all build in the 1970's.	Repair and Rehabilitation	\$ 123,900,000	\$ 177,000,000	\$121	\$314 - \$445	\$367	Institutional Funds = \$53.1M
UT Health Science Center - Houston	New South Campus Building	Priority #2 This project includes a new 260,000 square foot building on the university's South Campus to house expanding academic programs and to allow strategic redeployment of administrative functions. Growing programs such as the School of Public Health, School of Biomedical Informatics and the Children's Learning Institute have space needs that cannot be met in the existing university inventory. Additionally, administrative functions now occupy space in main TMC Campus locations that could be repurposed for key medical / research / academic needs.	New Construction	\$ 91,000,000	\$ 130,000,000	\$500	\$480 - \$849	\$656	Institutional Funds = \$39M
UT Health Science Center -San Antonio	Facilities Renewal and Renovation	Priority #1 This project will include renovation of the existing 1,339,758 GSF Medical and Dental School, Nursing School, Library, Core Computing Center, and Classroom Modernization. It will also include Research Lab upgrades, Fire & Life Safely facility renewals, and two emergency generators. It is necessary to replace significant building systems, such as mechanical, electrical, plumbing, medical gases, security and safety in order to repurpose the space and improve its functionality for new uses in the Medical and Dental School. Funding would reduce the current deferred maintenance backlog by approximately 80%.	Repair and Rehabilitation	\$ 114,000,000	\$ 130,000,000	\$97	\$288 - \$400	\$335	Institutional Funds = \$16M

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UT MD Anderson Cancer Center	Sheikh Zayed Bin Sultan Nahyan Building for Personalized Cancer Care	Priority #1 This project consists of a new 636,404 gross square feet (GSF) research building constructed on MD Anderson's main campus. It will include two research laboratory wings and will be joined with two adjacent office wings by a central collaboration core space in the middle. The facility will include clinical laboratories, translational and basic science research laboratory space, clinical programs and other supporting space, such as equipment support areas, offices and conferencing facilities to integrate the delivery of basic and clinical research in support of Personalized Cancer Care. It will provide necessary space to accommodate the expanding research mission of MD Anderson and related academic programs. The facility will enhance the capacity for the institution to sustain its national rankings and achievements as a leading research-driven patient care institution focused on developing and advancing the most innovative therapeutics, diagnostics, early detection and prevention techniques to combat cancer. This project is currently on the Capital Improvement Program with a TPC of \$272,800,000.		\$ 70,000,000	\$ 361,000,000	\$568	\$435 - \$779	\$589	Institutional Funds = \$291M with \$100M from Gifts and \$191 from Patient Income
UT Health Science Center - Tyler	Facility Renovation for Physician Residents Training	Priority #1 This project will renovate areas displaced by the newly created mental health units and improve 43,023 GSF of existing 1970's-era teaching spaces to maintain accreditation for physician residency programs. Health Science Center - Tyler recently entered into partnership with the Department pof State Health Services to significantly increase capacity in our state's mental health system. The additional beds has had, and will continue to have, a dramatic impact on the ability to provide adequate physical space to train physicians residents. Renovations would allow HSC-Tyler to continue operations of new mental health units and maintain accreditation for physician residency programs, which have specific space requirements for resident training.	Repair and Rehabilitation	\$ 15,000,000	\$ 18,500,000	\$430	\$272 - \$390	\$321	No true comparable projects in OFPC's database. We assume the institution has scoped and estimated the work adequately. Institutional Funds = \$3.5M Local Funds
		Total All Health Institutions		\$ 591,500,000	\$ 1,125,800,000				