

Authorization of New Capital Improvements Projects – East Carolina University, North Carolina State University, and the University of North Carolina at Chapel Hill

East Carolina University, North Carolina State University, and the University of North Carolina at Chapel Hill have requested authority to establish new capital improvements projects.

ECU – Todd Dining Hall Accessibility, Walk, and Patio Improvements: This project will make accessibility, walk, and patio improvements to Todd Dining Hall (built in 1994, 35,000 square feet, one-story) from six adjacent residence halls in the College Hill area. Work will include modifications to meet current accessibility requirements and enhance pedestrian safety along College Hill Drive. The project, estimated to cost \$942,546 and funded from housing receipts (\$471,273) and dining receipts (\$471,273), will be complete by September 2013.

ECU – White Residence Hall Renovations: This project will renovate the approximately 201 bedrooms in White Residence Hall (built in 1968, 82,731 square feet, ten-story, 390-bed). Work will include demolition of all built-in furniture, asbestos abatement, updating of interior finishes, and required code and accessibility improvements. The project, estimated to cost \$6,220,000 and funded from housing receipts, will be complete by August 2013.

ECU – Fletcher Residence Hall Renovations and Accessibility Improvements: This project will upgrade the HVAC and Exhaust systems and repurpose 4,000 square feet of unused basement space in Fletcher Residence Hall (built in 1964, 80,649 square feet, seven-story, 416-bed). Work will also include site improvements between Fletcher and Garrett Residence Hall along Dowell Way to increase accessibility and improve pedestrian circulation. The project, estimated to cost \$1,526,000 and funded from housing receipts, will be complete by August 2013.

ECU – Joyner Library Renovations: This project will renovate the approximately 4,000 square feet in Joyner Library (built in 1954, 129,963 square feet, three-story). Work will include renovation of the circulation desk area to improve space utilization, relocation of the franchised coffee kiosk to reduce noise in the library, relocation and expansion of the security office, expansion of restrooms to meet code and accessibility requirements, and associated architectural, mechanical, electrical, and plumbing system changes. The project, estimated to cost \$364,300 and funded from the ECU Langford Endowment, will be complete by August 2013.

ECU – Todd Dining Hall Roof Replacement: This project will replace approximately 27,600 square feet of the roof on Todd Dining Hall (built in 1994, 35,000 square feet, one-story). Work will include the replacement of the windows in the large cupola over the main dining room. The project, estimated to cost \$804,554 and funded from dining receipts, will be complete by October 2013.

ECU – Dance Studio: This project will construct a new freestanding approximately 16,000 square-foot dance studio facility to house the ECU Dance Program to meet program accreditation requirements to allow the program to become fully accredited. The building will include three 2,500 square-foot dance studios, faculty and staff offices, shower and dressing rooms, and required equipment storage, data, telecommunications, electrical, and mechanical space. The project, estimated to cost \$1,900,000 and funded from carry forward funds,* will be complete by September 2014.

ECU – School of Dental Medicine 4th Floor Fit-up Phase I: This project is the first of two or three projects that will fit-up the 4th floor of Ross Hall (2012, 188,000 square feet, four-story) which houses the School of Dental Medicine (SODM). This project will create research and office space to support the overall SODM's accreditation process. The total cost to fit-up the 47,000 square-foot 4th floor is estimated to be \$7,100,000. This Phase I project is expected to fit-up 23,000 square-feet of the 47,000 square feet, is estimated to cost \$4,892,526, will be funded from carry forward funds,* and will be complete by August 2015.

ECU – Residence Hall Coordinator Apartment Improvements: This project will renovate existing apartments in nine residence halls to create two and three bedroom apartments suitable for the young professional and their families that ECU Residential Life seeks to attract to its residence hall coordinator positions. Work will include comprehensive demolition of existing apartments, asbestos abatement, reconfiguring space, associate building system upgrades, and required code and accessibility improvements. The project, estimated to cost \$3,893,000, funded from housing receipts, and phased over four successive summers, will be complete by August 2016.

NCSU – College of Textiles Interior Renovations: This project will renovate approximately 16,200 square feet in the College of Textiles building (built in 1990, 307,163 square feet, four-story) to accommodate the Graduate School's relocation from leased space. Work will provide office space, a multi-purpose room, a digital capture/smart classroom, and a general purpose classroom. Work will include building entry modifications to improve accessibility and associated architectural, mechanical, electrical, and plumbing system changes. The project, estimated to cost \$1,952,667 and funded from carry forward funds,* will be complete by August 2014.

**(Carry-forward funds are operating funds unexpended on June 30 and, pursuant to state law, are "carried-forward" into the next fiscal year to support one-time expenditures.)*

NCSU – Hazardous Waste Facility: This project will construct a new approximately 1,200 square-foot building to provide for the safe handling and storage of flammable liquids, gases, solids, and corrosive chemicals on the Centennial Biomedical Campus. The project, estimated to cost \$350,000 and funded from facilities and administrative receipts, will be complete by September 2013.

NCSU – 2013 Retained Energy Savings (S.L.2010-196) Project: This project will perform four energy conservation measures (ECM) using funds carried forward under provision of Session Law 2010-196. The project, estimated to cost \$1,135,000 and funded from utilities energy savings carry forward funds, will be complete by June 2015. The four ECMs are:

- a. Tridium Vykon Energy Suite/Periscope License (\$110,000): Purchase and perform system integration of the Tridium Vykon Energy Suite/Periscope, an enterprise level energy savings analysis and reporting platform that integrates with existing campus building automation systems, and install integral Periscope energy dashboard for campus energy manager and campus community.
- b. Complete the Centennial Campus (CC) Building Automation System Integration for Energy program (\$225,000): Install fully integrated utility meters at eight CC buildings and connect the CC substation supervisory control and data acquisition system (SCADA) to make CC fully capable of demand load shedding and refined energy saving building scheduling.
- c. Main Campus Building Automation System Upgrade - Phase I (\$400,000): Install DDC controls on VAVs and remaining AHUs in North and South book stacks of D.H. Hill (North stack, constructed 1975, twelve floors; South stack, constructed 1990, eleven floors), and rebalance building for air and water flows that will conserve energy.
- d. Supervisory Control and Data Acquisition system (SCADA) Modernization (\$400,000): Upgrade the SCADA system to enable more efficient control of power that will reduce operating costs. Work will include extending the campus fiber optic network, upgrading campus breaker relays, upgrading remote terminal units, and upgrading SCADA system software.

NCSU – Witherspoon West Improvements: This project will add vestibules to the building entrances on the west side of Witherspoon Student Center (built in 1991, 44,343 square feet, three-story) to enhance energy efficiency and building appearance. Work will also include site improvements between Witherspoon and Dan Allen Drive to increase accessibility and improve pedestrian circulation. The project, estimated to cost \$500,000 and funded from campus enterprises trust fund receipts, will be complete by September 2013.

UNC-CH – Mary Ellen Jones Building Renovations – Phase I: This project will renovate the exterior building envelope; replace building HVAC, electrical, plumbing, and life safety systems; and renovate 41,320 square feet on multiple levels in the Mary Ellen Jones building (built in 1978, 223,994 square feet, 11-story). Work will include roof and window replacement, asbestos abatement, updating of interior finishes, and code and accessibility improvements. The project, estimated to cost \$45,000,000 and funded from facilities and administrative receipts, will be complete by May 2015.

UNC-CH – North Chiller Plant Capacity Upgrade: This project will increase by 4,500 tons the chilled water production capacity of the North Chiller Plant (built in 1970, 21,131 square feet, one-story). Work will include the installation of two new chillers and associated variable speed drives, disconnects controls, piping, and building utilities. The project, estimated to cost \$4,500,000 and funded from utility receipts, will be complete by March 2015.

UNC-CH – Brinkhous-Bullitt Building 10th Floor Renovations: This project will renovate approximately 8,637 square feet of the tenth floor of the Brinkhous-Bullitt building (built in 1978, 223,994 square feet, 11-story) for the School of Medicine. Work will provide a cardio-thoracic medical simulation suite, a surgical simulation laboratory, large conference room, offices, and support space. Work will include demolition, asbestos abatement, reconfiguring space, associated building system upgrades, and required code and accessibility improvements. The project, estimated to cost \$1,383,000 and funded from clinical receipts, will be complete by January 2014.

UNC-CH – Berryhill Hall 3rd Floor Renovations: This project will renovate approximately 15,521 square feet of the third floor of Berryhill Hall (built in 1970, 126,196 square feet, nine-story) for the School of Medicine. Work will provide a medical education simulation laboratory, monitoring room, classroom, exam rooms, offices, and support space. Work will include demolition, asbestos abatement, reconfiguring space, associated building system upgrades, and required code and accessibility improvements. The project, estimated to cost \$3,601,000 and funded from clinical receipts, will be complete by January 2014.

It is recommended that these projects be authorized and that the methods of financing as proposed by ECU, NCSU, and UNC-CH be approved.