

**Item Title:** Wake Technical Community College CIP Appropriation

**Specific Action Requested:**

**That the Board of Commissioners adopts the attached resolution for the following action:**

- 1. Appropriate a total of \$15,228,000 to fund the permitting of RTP Classroom Building 2; campus-wide renovations, repairs, and alterations; campus-wide infrastructure upgrades; and the renovation of the Power Mechanics facility located at the Southern Wake (Main) campus.**

**Item Summary:**

Wake Technical Community College presented their Seven-Year CIP at the November 14, 2016 Work Session. This appropriation request is for the second year of that plan. The County plans to cover the first two years of the plan with a combination of cash and funds provided by drawdown installment financing agreements in anticipation of future bond issuance; the first year of debt funding for Wake Tech projects was approved by the Board of Commissioners on January 17, 2017. On September 5, 2017, the Board of Commissioners approved \$10,033,000 in cash appropriations to fund alterations and renovations, minor capital projects and technology acquisition and infrastructure as the initial part of the FY 2018 Wake Tech Capital Improvement Plan. The \$15,228,000 requested above will complete the approved Wake Tech Capital Improvement Plan for fiscal year 2018 and will be funded by drawdown installment financing agreements in anticipation of future Limited Obligation Bonds.

<b>Wake Technical Community College Multi-year Capital Improvement Program</b>	
<b>New Building Projects</b>	<b>Appropriations</b>
RTP Classroom Building 2 Permitting	\$327,000
<b>Repair &amp; Renovation/Lifecycle Projects</b>	
Power Mechanics Renovation (Main)	\$1,934,000
HVAC Equipment Replacement	\$800,000
HVAC Controls	\$800,000
Building Envelope Upgrades	\$700,000
<b>Infrastructure Projects</b>	
Security Cameras	\$876,000
Card Readers	\$1,742,000
Cellular Signal Repeaters	\$1,583,000
Mass Notification System	\$1,039,000
Accessibility Upgrades	\$600,000
Southern Loop Road & Paving	\$4,365,000
NWC Exterior HW & CHW Piping	\$462,000
<b>TOTAL</b>	<b>\$15,228,000</b>

Below are descriptions of each project within the categories of New Building Projects, Repair and Renovation/Life Cycle Projects, and Infrastructure Projects.

### **New Building Projects (Permit Funding):**

RTP Campus Classroom Building 2 – This project will provide the second building for the RTP Campus. The building will be an 80,000-square foot classroom building with offices and laboratories. The project will include the construction of a 250-space temporary parking lot and a 250-space permanent parking lot. Programs envisioned for this building include: Center for Excellence in Analytics and Logistics; Business Partnership Center; Center for Teaching Excellence; Biopharmaceutical Technology; Career and Work-based Learning Center; Physics. IT programs will be expanded in RT1 as general education courses relocate to RT2. The funds that we are appropriating (\$327,000) will be used for permitting and impact fees.

### **Repair & Renovation/Lifecycle Projects:**

Main Campus Power Mechanics Building Renovation - this will be a partial Renovation of the Power Mechanics building, a 10,460-square foot classroom/laboratory facility as well as relocating the HVAC Labs from Power Mechanics to the Ready Hall Addition, a new 34,000 square foot classroom and laboratory building that is currently under design and will be bid this summer. Power Mechanics houses the Residential HVAC Program where the instruction is on how to troubleshoot, maintain, repair or replace residential heating, ventilation and air conditioning (HVAC) equipment. Relocating the HVAC Labs to the Ready Hall Addition will enable the college to add commercial HVAC instruction to the program. The funds that we are appropriating (\$1,934,000) will be used for design and construction.

HVAC Equipment Replacement - This project will replace various HVAC equipment and systems primarily at the Southern Wake and Perry Health Sciences Campuses, but may also include work at the other campuses. The Master Plan Update in 2015 identified HVAC and plumbing equipment and systems needing replacement, over the next seven years, that have reached the end of their useful life and are not functioning as originally designed and installed. The replacements will include items such as chillers, boilers, pumps, air handling units, cooling towers, air-cooled condensers, VAV terminal units, ductwork, plumbing, etc. This project will be funded over a multiple year timeframe. The funds that we are appropriating (\$800,000) will be used for design and construction.

HVAC Controls - This project will replace various building automation control systems primarily at the Southern Wake (Main) and Perry Health Sciences Campuses. HVAC control systems needing replacement have been identified that have reached the end of their useful life and are not functioning as originally designed and installed. The replacements will include items such as head end systems, controllers, actuators, thermostats, sensors, etc., as well as upgrading and replacing older pneumatic and digital control systems to newer open source systems. This project will be funded over a multiple year timeframe. The funds that we are appropriating (\$800,000) will be used for design and construction.

Building Envelope Upgrades - This project will upgrade the building envelope components primarily at the Southern Wake (Main), Northern Wake and Perry Health Sciences Campuses. The upgrades will include upgrading system components for roofs, windows, walls, floors, caulking, flashing, etc. This project will be funded over a multiple year timeframe. The funds that we are appropriating (\$700,000) will be used for design and construction.

### **Infrastructure Projects:**

Security Cameras - This project will upgrade existing and provide additional new security cameras across all campuses. The Master Plan Update in 2015 identified existing analog type security cameras that will be upgraded and/or replaced with new digital type security cameras to provide better visual and memory capabilities. Areas of the college were also identified as needing additional security cameras installed to provide better visual coverage of the campus buildings and grounds. The funds that we are appropriating (\$876,000) will be used for design and construction.

Card Readers – This project will provide card readers for exterior doors and select interior doors on all existing buildings throughout the college. The card readers will provide better security for the buildings with the ability to control who is permitted to enter buildings after regular work hours. The card readers will be interlocked with the security camera system to provide a visual record of usage. The funds that we are appropriating (\$1,742,000) will be used for design and construction.

Cellular Signal Repeaters - This project will provide additional new cellular signal repeaters primarily at the Southern Wake, Perry Health Sciences and Western Wake Campuses, but may also include work at other campuses. The Master Plan Update in 2015 identified existing buildings where the cellular signal needs to be boosted to provide better mobile device capabilities. Those areas will be provided with additional cellular signal repeaters to increase the signal strength in those buildings. The funds that we are appropriating (\$1,583,000) will be used for design and construction.

Mass Notification System – This project will provide for a collegewide mass notification system that will provide the capability to alert the faculty, staff and students of an active shooter situation as well as unexpected impending serious weather situations. The system will utilize the audio portion of existing and new building fire alarm systems to transmit voice messages and warning signals that will be activated by the Campus Police. This project will be funded over a multiple year timeframe. The funds that we are appropriating (\$1,039,000) will be used for design and construction.

Accessibility Upgrades - This project will provide upgrades to the site pedestrian walkways primarily at the Southern Wake and Perry Health Sciences Campuses, but may include work at other campuses. The Master Plan Update in 2015 identified site pedestrian walkways that do not meet current ADA handicapped standards and work will include replacing sidewalks, stairs, ramps, curb cuts, handicapped parking spaces in order to meet the new standards. This project will be funded over a multiple year timeframe. The funds that we are appropriating (\$600,000) will be used for design and construction.

Southern Loop Road & Paving - This project will construct a new road and repave existing roadways and parking lots at the Southern Wake Campus, but may include work at other campuses. The Master Plan Update in 2015 identified a new two-lane road that will connect the recently paved Parking Lot R with Highway 401. The College will be losing one of its entrances on Highway 401 when the new I-540 Toll Road is built and the new road will provide an additional entrance to make up for this. A new traffic signal will be provided at the intersection with Highway 401. Also identified was 710,000 square feet of existing paved parking lots that are in disrepair and these areas will be repaved with new asphalt paving utilizing the Full Depth Reclamation (FDR) process. The funds that we are appropriating (\$4,365,000) will be used for construction.

NWC Exterior HW & CHW Piping - This project will provide for new chilled water and heating water piping to connect Building H at the Northern Wake Campus to the Regional Energy Plant #2. When Building H was constructed in 2016, the project funding did not allow for this connection and a standalone chiller and boiler were installed to serve this building. This project will, in addition to the new piping connections, relocate the chiller and boiler in Building H to Regional Energy Plant #2. The funds that we are appropriating (\$462,000) will be used for planning and design.

#### **Staff Comments**

Staff recommends approval of the appropriation to complete the adopted Wake Tech Capital Improvement Plan for fiscal year 2018 as planned.

#### **Attachments:**

1. BOC Resolution
2. WTCC 7-Year CIP Summary