

## Committee Minutes

### BUILDINGS AND GROUNDS COMMITTEE

June 6, 2016

#### Open Session

**Board Members Present:** Mr. William Fairchild, Mr. Michael Quillen, Mr. Steve Sturgis

**VPI&SU Staff:** Ms. Jennifer Altman, Deputy Chief Mac Babb, Ms. Vickie Chiocca, Mr. Van Coble, Chief Kevin Foust, Mr. Mark Gess, Mr. Mark Helms, Mr. William Hinson, Mr. Joe Hoeflin, Ms. Angela Kates, Dr. Chris Kiwus, Ms. Leigh LaClair, Mr. Brian Lee, Ms. Heidi McCoy, Mr. Ken Miller, Mr. Mike Mulhare, Ms. Laura Neff-Henderson, Mr. Charles Phlegar, Dr. Jill Sible, Ms. Kayla Smith, Mr. Jason Soileau, Mr. Rick Sparks, Mr. Luke Watson, Dr. Sherwood Wilson

**Guests:** Mr. Frank Bliley, Mr. Scott Brame, and Mr. Brandon Renick (W. M. Jordan representatives)

- 1. Tour of Classroom Building:** The Committee toured the new Classroom Building which is scheduled to open fall 2016.
- 2. Opening Remarks and Approval of Minutes of the March 21, 2016 Meeting:** The Committee approved the minutes of the March 21, 2016 meeting.
- \* 3. Resolution for Reappointment of the University's Representative to the New River Valley Regional Water Authority:** The Committee approved a resolution reappointing Sherwood G. Wilson, Vice President for Administration as the university's representative to the New River Valley Regional Water Authority for a four-year term expiring June 30, 2020.
- 4. Design Preview for Corps Leadership and Military Science Building:** The Committee approved the design graphics for the new three story, 71,325 gross square foot (GSF) Corps Leadership and Military Science (CLMS) Building. The facility will provide a home to Corps administration, Military Science staff, the Rice Center for Leadership Development, a military museum, and Corps and ROTC support and training spaces. The facility will be located at the north end of the Upper Quad in place of the existing Art and Design Learning Center building and will span over the mechanical basement. The basement level mechanical space containing water treatment systems for the Steam Plant across Old Turner Street will remain in place. The CLMS building will complement the Collegiate Gothic Revival architecture of the new Pearson and Brodie residence halls on the Upper Quad.
- 5. University Building Official 2016 Annual Report:** The Committee received the sixth annual summary report of activities from the University Building Official

(UBO). As set forth in University Policy 5407, the annual report identifies the code enforcement and building permit activities performed during the prior year.

- 6. Capital Project Status Report:** The Committee received an update on the status of all capital projects which included nine projects in design and four projects under construction.
- \* 7. Resolution for Approval of the Construction Procurement Approval Process for Capital Project Delivery:** The Committee approved a resolution updating the university's Construction Procurement Approval Process for Capital Project Delivery. These updates are in response to new legislation passed during the 2016 General Assembly session regulating the types of construction procurement methods available for public institutions who have executed a Management Agreement. The legislation, effective July 1, 2016, required that Virginia Tech send the updates to the Construction Procurement Approval Procedures for Capital Project Delivery to the Virginia Department of General Services (DGS) for review and recommendations. DGS has reviewed and provided recommendations that have been incorporated into Virginia Tech's updated procedures.

### **Joint Open Session with Finance and Audit**

**Board Members Present:** Mr. Jim Chapman, Mr. Dan Cook - staff representative, Mr. William Fairchild, Mr. Charles T. Hill, Ms. Deborah Petrine, Mr. Mike Quillen, Mr. Steve Sturgis, Mr. Dennis Treacy, Mr. Horacio Valeiras

**VPI & SU Staff:** Ms. Venice Adams, Mr. Mac Babb, Mr. Bob Broyden, Ms. D'Elia Chandler, Mr. Van Coble, Mr. John Cusimano, Mr. Brian Daniels, Dr. John Dooley, Mr. Kevin Foust, Ms. Karen Gilbert, Ms. Miranda Grove, Ms. Mary Helmick, Mr. Tim Hodge, Ms. Elizabeth Hooper, Ms. Katie Huger, Ms. Angela Kates, Mr. Chris Kiwus, Ms. Sharon Kurek, Ms. Leigh Laclair, Ms. Nancy Meacham, Dr. Scott Midkiff, Mr. Ken Miller, Ms. Terri Mitchell, Mr. Mark Owczarski, Mr. Charles Phlegar, Dr. Scot Ransbottom, Ms. Lisa Royal, Mr. Charlie Ruble, Ms. Savita Sharma, Mr. M. Dwight Shelton Jr., Mr. Ken Smith, Mr. Jason Soileau, Ms. Katryn Stewart, Mr. Brad Sumpter, Mr. Steve Vantine, Dr. Sherwood Wilson

- \*1. Approval of Resolution for Planning Renovations for Undergraduate Science Laboratories:** The Committees reviewed for approval a resolution for a capital project planning authorization for renovations for Undergraduate Science Laboratories. The university's current inventory of science instruction laboratory spaces is not sufficient to accommodate projected enrollment growth through 2023. To meet demand for laboratory instruction, the university has developed a two-pronged strategy that includes new construction to add space and renovations to repurpose underutilized spaces. During the 2016 state budget session, the university successfully obtained a state-funded planning project for a new 105,000 gross square foot laboratory instruction building to help meet this demand. The planning project is effective July 1, 2017, and the building may be available for scheduling fall semester 2021.

The renovations component provides strategically important space to address short and long-term needs to accommodate the planned enrollment growth. In the short-term, the renovations will provide space to meet the immediate impacts of enrollment growth demand for laboratory courses until the new state funded building is available. In the long-term, the renovations will also serve to fully accommodate expected demand for laboratory course sections through 2023 and beyond. The plan for the renovations component is for the university to self-fund repurposing up to seven laboratory spaces in Derring Hall and up to three laboratories in Hahn Hall. These laboratories would expand space to meet growing demand for course sections in biology, chemistry, organic chemistry, physics, and micro-biology. These renovations will be planned in coordination with planning for the new laboratory building to leverage both investments for optimal capacity and impact.

This request is for a \$600,000 planning authorization to complete preliminary designs for the renovations component. As with all self-supporting projects, the university has developed a financing plan to provide assurance regarding the financial feasibility of this planning project.

The Committees recommended the Resolution for Planning Renovations for Undergraduate Science Laboratories to the full Board for approval.

There being no further business, the meeting adjourned at 11:54 a.m.

**\*Requires full Board approval.**

## **DESIGN PREVIEW FOR CORPS LEADERSHIP AND MILITARY SCIENCE BUILDING**

Schematic design is underway for the new three story, 71,325 gross square foot (GSF) Corps Leadership and Military Science (CLMS) Building. The facility will provide a home to Corps administration, Military Science staff, the Rice Center for Leadership Development, a military museum, and Corps and ROTC support and training spaces. The facility will be located at the north end of the Upper Quad in place of the existing Art and Design Learning Center building, above a basement holding the Boiler Plant water treatment system that will remain in service. The CLMS building will complement the Collegiate Gothic Revival architecture of the new Pearson and Brodie residence halls on the Upper Quad. Exterior materials will include Hokie Stone, architectural precast panels and trim with decorative reveals and athletic heraldry, and aluminum windows.

# Capital Project Information Summary – Corps Leadership and Military Science Building

## BUILDINGS AND GROUNDS COMMITTEE

June 6, 2016

### Title of Project:

Corps Leadership and Military Science (CLMS) Building

### Location:

Flanking Lane Hall at the central north end of the Upper Quad, on the site of the existing Art and Design Learning Center (ADLC), formerly called the Mechanical Engineering Laboratory.

### Current Project Status and Schedule:

The Schematic Design phase is completed and the Preliminary Design phase is expected to be completed in early August 2016.

### Project Description:

The above grade single story Art and Design Learning Center building will be demolished to make room for the CLMS building. The basement level mechanical space containing water treatment systems for the Boiler Plant across Old Turner Street will remain in place. The new three story, 71,325 gross square foot (GSF) CLMS building will span over the mechanical basement and the CLMS first floor main entry will be at grade on the Upper Quad lawn.

### Brief Program Description:

The building will house the Corps of Cadets administrative staff, Rice Center for Leadership Development, Military Science staff, a military museum, service support functions for the Corps and ROTC programs, and other program needs for the Corps and ROTC training.

### Contextual Issues and Design Intent:

The CLMS building is designed to complement the Collegiate Gothic Revival architecture of the new Pearson and Brodie residence halls on the Upper Quad. Exterior materials will be comprised of Hokie Stone, architectural precast panels and trim with decorative reveals and athletic heraldry, and aluminum windows. The building is formally oriented on the centerline axis of Lane Hall. The building's prominent interior spaces will overlook the historic Quad and Lane Hall and the front formal plaza with its multiple flags completes the north end of the Quad.

### Architect/Engineer:

ClarkNexsen

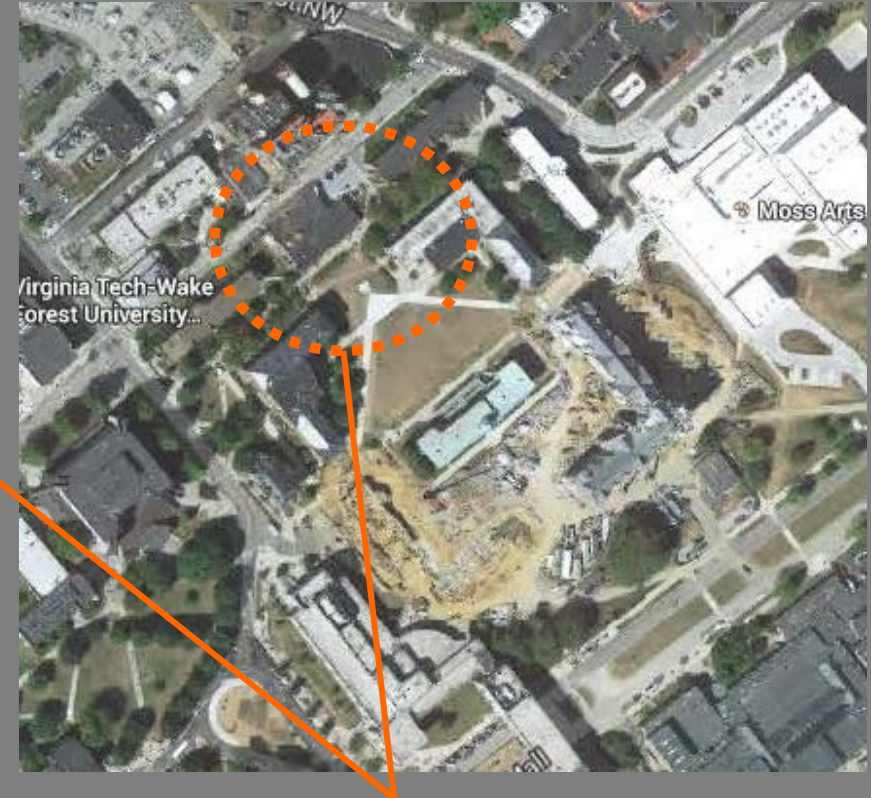
### Construction Manager:

TBD

*Design Preview for:*  
**Corps Leadership and  
Military Science Building**

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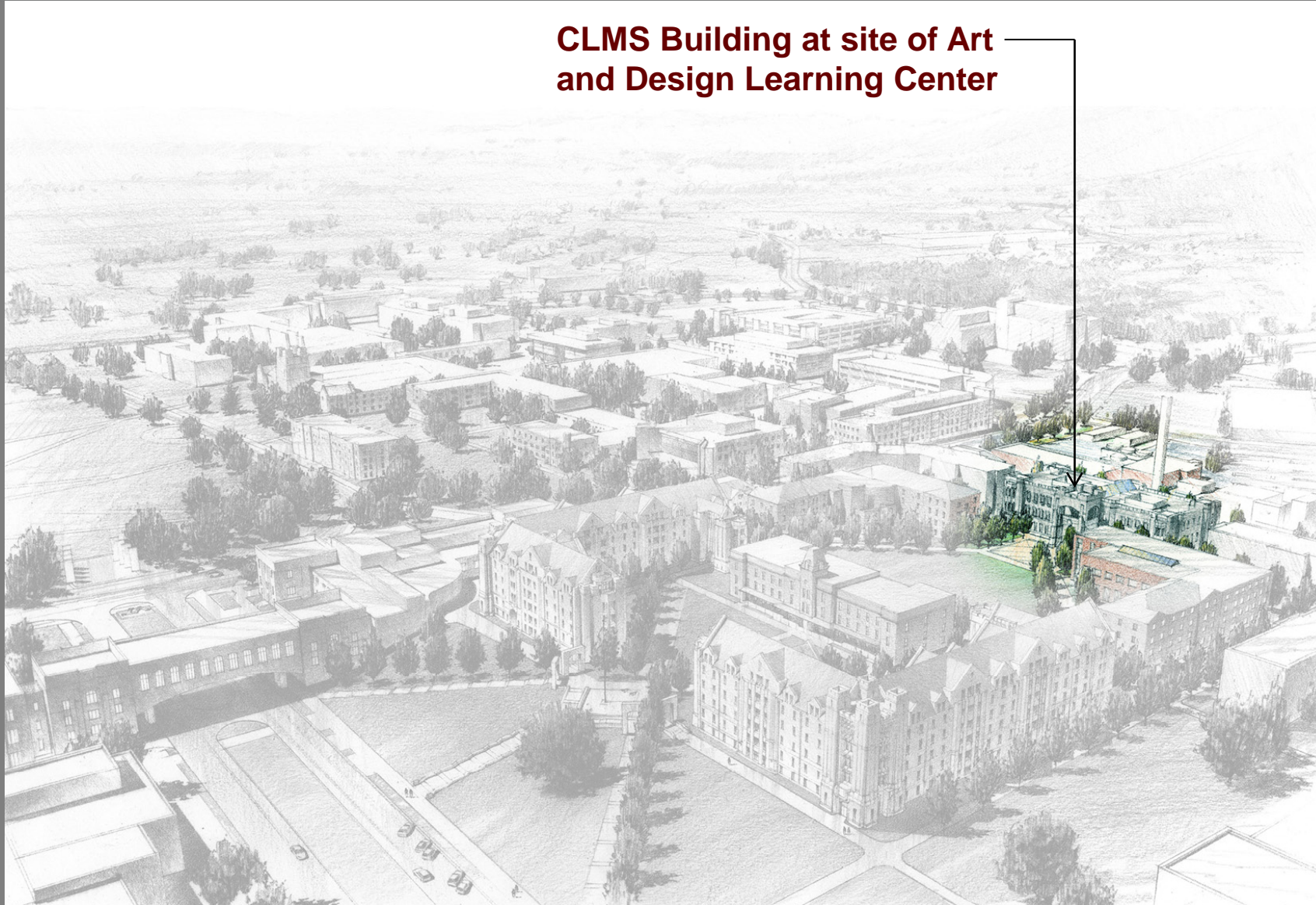
# Project Location



Corps Leadership and Military Science Building at Upper Quad

# Corps Leadership and Military Science Building

# Perspective View of Upper Quad

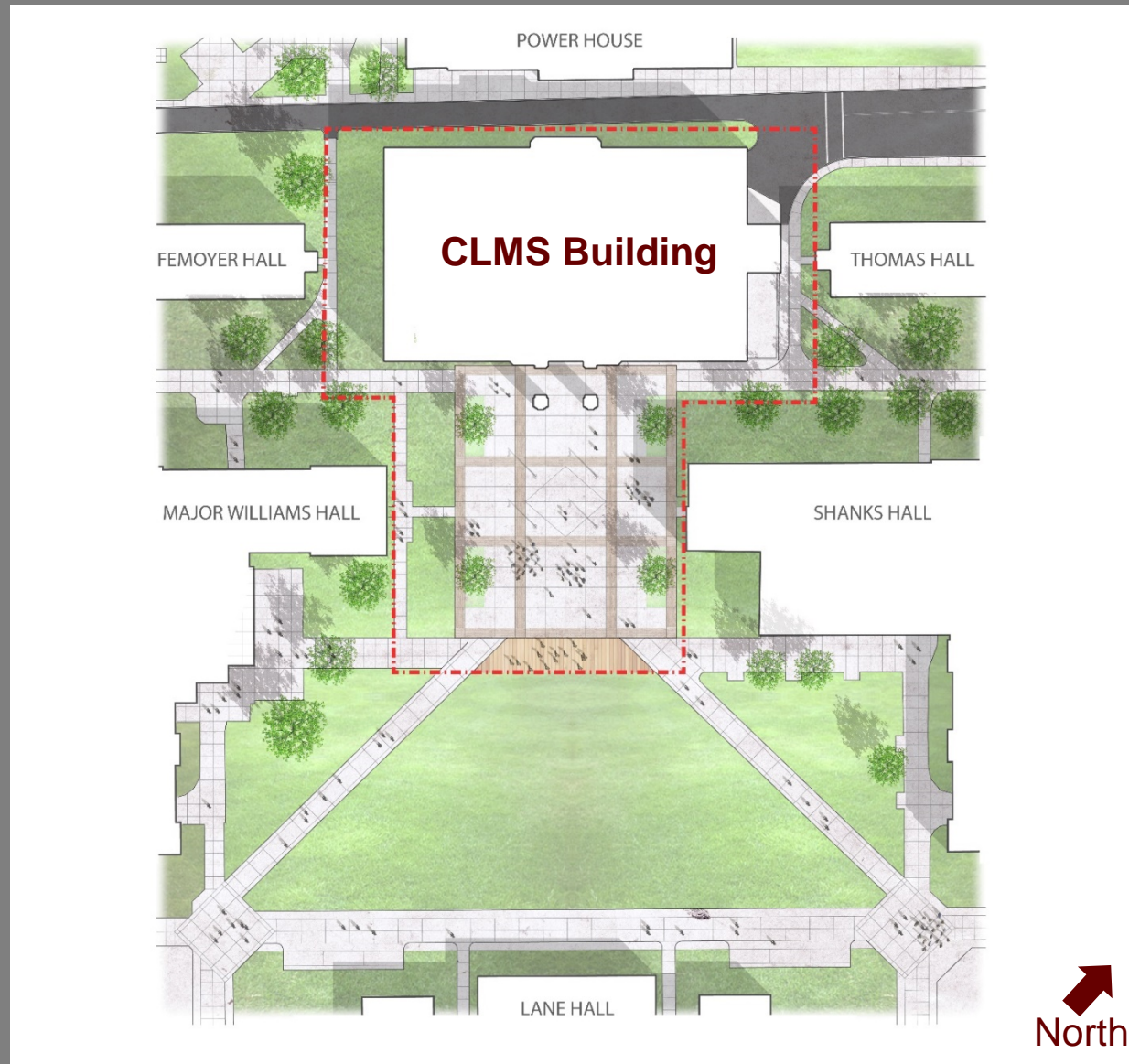


**CLMS Building at site of Art  
and Design Learning Center**

**Corps Leadership and Military Science Building**

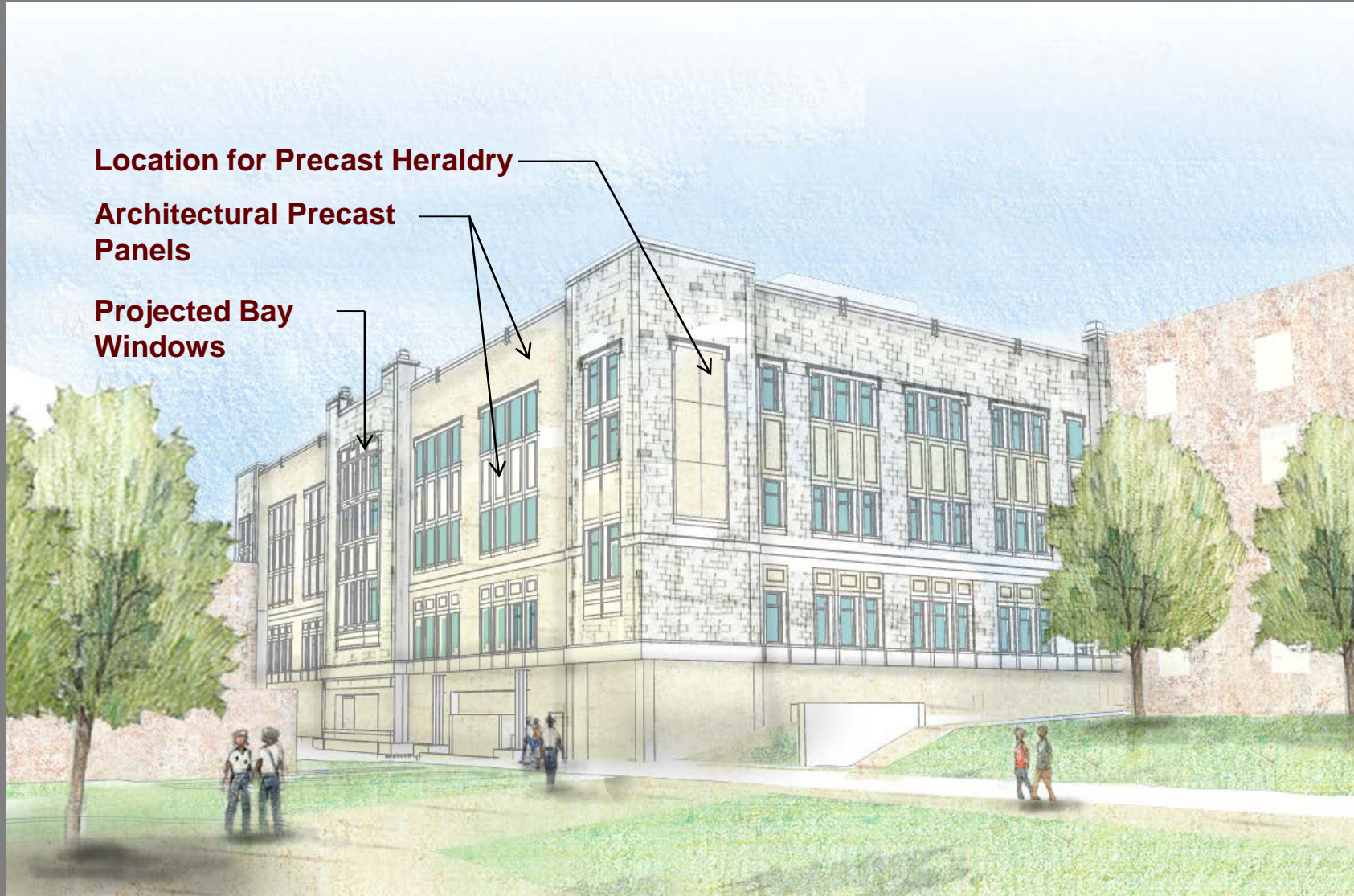


# Upper Quad Site Plan



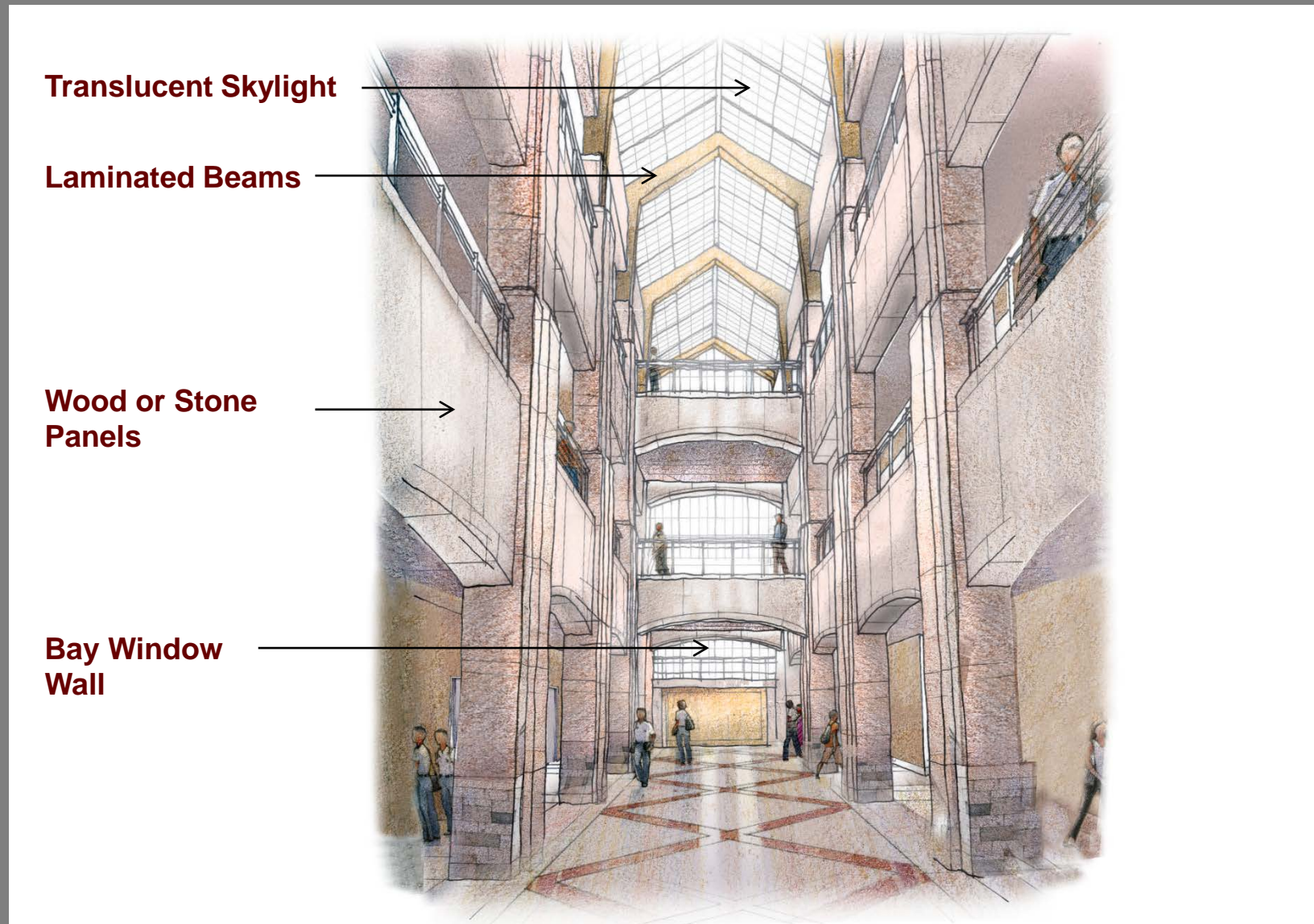
Corps Leadership and Military Science Building

# Perspective Views



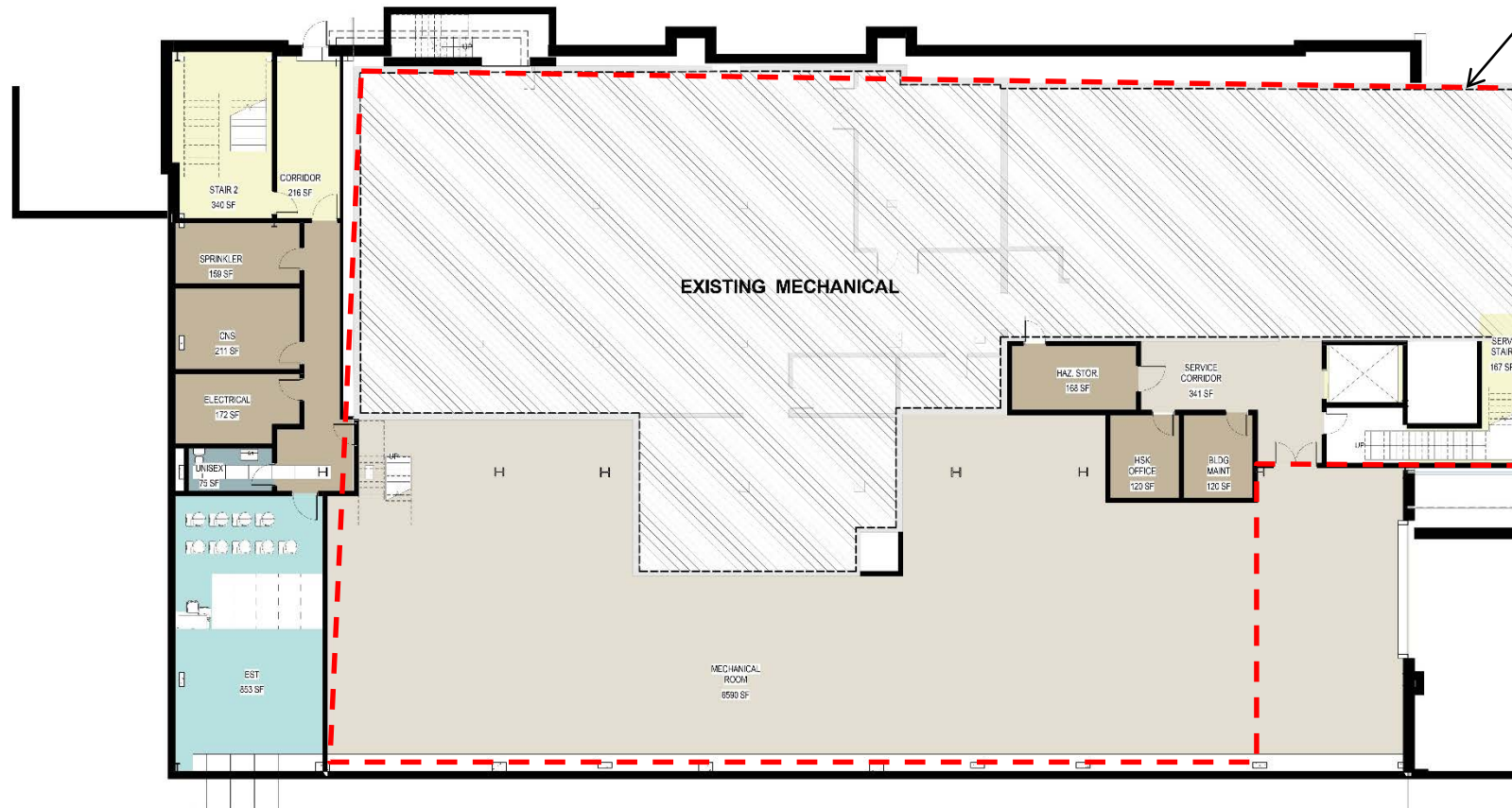
**Corps Leadership and Military Science Building**

# Perspective View – Interior Lobby



Corps Leadership and Military Science Building

# Basement Floor Plan



Existing Footprint of Building above to be demolished.  
Facilities Mechanical spaces on this level to remain in use.

# First Floor Plan



# Corps Leadership and Military Science Building

# Second Floor Plan



**Multi-use  
Classrooms**

**Atrium open to  
Lobby below**

# Third Floor Plan



## Corps Leadership and Military Science Building

# Recommendation for Proposed Design

## RECOMMENDATION:

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That the Design Preview graphics be approved and authorization be provided to continue with the project design consistent with the drawings shown.



**University Building Official 2016 Annual Report  
(Report Period April 1, 2015 – March 31, 2016)**

**BUILDINGS AND GROUNDS COMMITTEE**

**June 6, 2016**

The Restructured Higher Education Financial and Administrative Operations Act of 2005 and the Management Agreement with the Commonwealth of Virginia grant the university the authority to designate its own building official. The Board of Visitors approved a resolution to establish a university building official and building code review unit at its June 20, 2008 meeting and the office was established July 1, 2010. Effective June 3, 2011, the Bureau of Capital Outlay Management (BCOM) formally delegated building official authority for Virginia Tech to the university's building official.

The Committee will receive the sixth annual summary report of activities from the University Building Official (UBO) since the Board approved policies and procedures governing the UBO, including the presentation of an annual report. As set forth in University Policy 5407, the annual report will identify the code enforcement and building permit activities performed during the prior year.

In the last year the following tasks have been completed:

**Major Statistics**

- Number of Plan Reviews for Permit performed: 2,250 (increase of 1,057 or 88% since 2015 Annual Report)
  - Includes repeated reviews to achieve code compliance
- Number of Permits issued (all permits and all trades): 1,133 (increase of 262 or 30% since 2015 Annual Report)
- Number of Inspections performed (all trades, pass and fail): 3,323 (decrease of 123 or 3.5% since 2015 Annual Report)
- Number of Re-inspections due to field failures/rejections (Estimated at 20% of total inspections): 664 (approximate decrease of 77 re-inspections since 2015 Annual Report)
- Examples of issues typically found in error in plan review stage:
  - Incomplete documents, details, and drawings
  - Incorrect code references
  - Incorrect or incomplete application of the Virginia Rehabilitation Code
  - Incorrect applications of fire rated assemblies
  - Incorrect application of fire separation distances
  - Failure to account for electrical panel access space
- Examples of issues found in the field include:
  - Failure to install fire rated wall/floor penetration assemblies in new construction
  - Identification of non-compliant existing wall/floor penetrations in existing facilities
  - Failure to properly place reinforcing prior to concrete placement

*Presentation Date: June 6, 2016*

- Improper electrical grounding system installations
  - Installation issues with fire alarm and suppression systems
- The UBO office is required by the Virginia Statewide Building Code to issue permits for and inspect large tents, stages, and amusement devices.
  - Tent and Stage requests permitted and inspected: 39 (increase of 1 since 2015 Annual Report)
  - Special Events reviewed and inspected: 22 (decrease of 6 since 2015 Annual Report)
- Number of Certificates of Occupancy (CO) Issued: 13
  - East Eggleston Hall (2/1/16)
  - Goodwin Hall (5/6/2015)
  - Hillcrest Hall (10/20/2015)
  - Indoor Athletic Training Facility (6/25/15)
  - Kentland
    - Calf Barn (6/15/15)
    - Commodity Barn (5/12/15)
    - Hay Barn (5/13/15)
    - Housing Barn (7/1/15)
    - Milking Parlor (7/1/15)
    - Special Needs Barn (7/1/15)
  - Manure Storage Facility (10/26/15)
  - Marching Virginians Practice Facility (7/9/15)
  - Pearson Hall (TCO Issued 11/2015)
- Number of Demolition Permits Issued: 54 (increase of 50 since 2015 Annual Report)

## **Staffing and Development**

- One Reviewer/Inspector transferred to the Facilities Department's Operations Unit. This vacant position will be filled in 2016-17.
- The Virginia Uniform Statewide Building Code was updated to the 2012 Edition. UBO staff continues to complete required state mandated update training.
- The UBO office participated in code committees to improve staff knowledge and application of the building code and provide input to the upcoming code change expected in 2017 or 2018.
- The UBO office worked with Department of Housing and Community Development to provide code enforcement education for other building and fire officials.
- The UBO office provided mentorship to a team of electrical engineering students that are working on a water turbine project at the Duckpond.

## **Operations**

- Selected, purchased, and implemented software to improve and manage the UBO office's permit review and inspection work with better connectivity and less paper.
- Continued the permitting and inspection of sidewalks and other pavements or slabs, as well as roads not covered by the Virginia Department of Transportation.
- Continued the permitting and inspection of utility work outside building footprints.
- Continued to coordinate the permitting and inspection of cabling and conduit

*Presentation Date: June 6, 2016*

penetrations for Network Communication Services, including the removal of abandoned communication wiring across campus.

- Identified several issues of code violations: resolved or working on resolutions with the State Fire Marshal Office regarding work done by the university and contractors without proper permits, plans, or authorization.
- Continued to coordinate efforts with the local building officials association to assist the campus and community through outreach efforts to contractors and staff regarding the building codes.
- Drafted and implemented additional internal procedures and revised existing permit and inspection procedures to create more consistent and reliable business processes and tracking mechanisms per Internal Audit's recommendations.

*Presentation Date: June 6, 2016*

# **CAPITAL PROJECT STATUS REPORT**

**Board of Visitors Meeting: *June 6, 2016***

**Christopher H. Kiwus, PE, PhD  
Associate Vice President and Chief Facilities Officer**

# PROJECTS IN DESIGN

- Athletic Facilities Improvements
- Biocomplexity Institute Data Center Expansion
- Eastern Shore AREC Equipment Storage Building
- Health Center Improvements
- Improve Kentland Facilities
- Lane Electric Substation Expansion
- Multi-Modal Transit Facility
- O'Shaughnessy Hall Renovation
- Renovate Academic Buildings



## BI DATA CENTER EXPANSION

- **Includes the renovation of four rooms in the Biocomplexity Institute of Virginia Tech (BI) building into a high performance computing center to support high end technical research and attract grant funding**
- **Planning authorization received for development of bridging documents and cost estimate**
- **Four Design-Build teams submitted proposals, but all were significantly over the estimated cost for construction**
- **Cost savings regarding chilled water are expected to bring the project within budget**

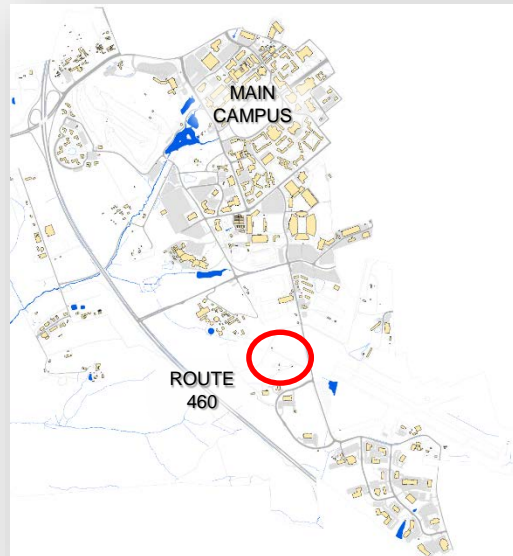


## EASTERN SHORE AREC EQUIPMENT STORAGE BUILDING

- **Construction of an agricultural equipment storage building at the AREC in Painter, Virginia**
- **A/E contract has been executed**
- **Construction document development is in progress**

# LANE ELECTRIC SUBSTATION EXPANSION

- **Includes the expansion of the existing electrical sub-station to add additional power capacity to serve the campus Life Sciences and Northwest Precincts and the Corporate Research Center's proposed expansion**
- **Long lead items are being procured**
- **A contract with AEP is being negotiated for design and construction**





# MULTI-MODAL TRANSIT FACILITY

- **A Capital Lease Project administered by the Town of Blacksburg**
- **Funded by Federal Transportation Administration grants and a university match**
- **Preliminary design is in progress**



# O'SHAUGHNESSY HALL RENOVATION

- **Includes a major renovation of a 69,200 GSF student residence building into a living - learning community**
- **A/E contract negotiation is in progress**



# RENOVATE/RENEW ACADEMIC BUILDINGS

- Includes the renovation of three existing campus buildings - Sandy Hall, Liberal Arts Building, and the original portion of Davidson Hall
- Construction Documents were bid by the CM and costs came in 30 percent over budget
- The CM rebid the project to an expanded list of subcontractors, but the price was still not low enough to award a GMP contract
- The project will now be bid to the open market



# PROJECTS UNDER CONSTRUCTION

- **Airport Hangar Replacement**
- **Classroom Building**
- **Fire Alarm Systems and Access**
- **Unified Communications and Network Renewal Project**
- **Upper Quad Residence Halls**



## UPPER QUAD RESIDENCE HALLS

- **Includes the demolition and reconstruction of Brodie and Rasche residence halls to serve the Corps of Cadets**
- **Brodie Hall has been demolished and is tracking behind schedule**
- **Corps of Cadets moved into Pearson Hall in November 2015**
- **Estimated completion date for Brodie in Spring 2017**
- **Thomas and Monteith scheduled for demolition following completion of Brodie**



**BUILDING AND GROUNDS COMMITTEE**

June 6, 2016

**Capital Project Status Report**

Project Name	Project Description	Estimated Total Project Cost	Non-General Funds	Project Teams	Contract Completion Date	Project Status
<b>DESIGN</b>						
Athletic Facilities Improvements	Planning authorization only. This is an umbrella project for improvements to multiple athletics facilities, including Rector Field House, Baseball, Tennis, and Cassell Coliseum Bowman Room (Nutrition Center).	\$3,500,000	\$3,500,000	Multiple A/E firms Multiple Contractors	TBD	Sub-projects as follows: <u>1) Rector Field House</u> - Includes building renovation and a new addition to provide for softball, throws practice, support space, and entry improvements. Preliminary design is in progress. Construction Management at Risk contractor procurement currently in progress. <u>2) Baseball</u> - Includes building renovation and an addition to provide for improved baseball team and training facilities. An A/E contract executed with Koonce Associates for bridging documents. Design-Build procurement is in progress. <u>3) Tennis</u> - Includes building renovation and an addition to provide for improved tennis team and training facilities. A/E contract has been executed. Feasibility study is in progress. <u>4) Nutrition Center</u> - Includes the potential renovation and/or new construction to provide improvements for athletic team training and nutrition program. A/E procurement in progress for feasibility study.
Biocomplexity Institute Data Center Expansion	Planning authorization only. This project includes the renovation of four rooms in the Biocomplexity Institute of Virginia Tech (BI) building into a high performance computing center.	\$500,000	\$500,000	TSS Columbia, MD TBD	TBD	The pricing received from the Design-Build proposers is significantly over budget. Cost savings regarding chilled water are expected to bring the project within budget.
Eastern Shore AREC Equipment Storage Building	This project includes the construction of an agricultural equipment storage building at the AREC in Painter, Virginia.	TBD	\$46,000	Dewberry TBD	TBD	The A/E contract has been executed. Construction document development is in progress.
Health Center Improvements	The planning authorization for the Health Center Improvements project was updated by the Board of Visitors at the March 2016 meeting to initiate a revised and comprehensive solution for student wellness services.	\$3,071,000	\$3,071,000	TBD TBD	TBD	The scope of work is being defined so an RFP can be issued for A/E procurement.
Improve Kentland Facilities	This project includes new construction of three buildings totaling approximately 28,900 gross square feet (GSF) including a metabolism research laboratory, an applied reproduction facility, and an arena with animal demonstration and holding spaces to serve Agency 229 Virginia Cooperative Extension and the Virginia Agricultural Experiment Station.	\$9,363,000	\$0	Spectrum Design, PC Roanoke, VA TBD	TBD	Funding authorization has been received from the Commonwealth of Virginia Department of General Services, and the project has progressed into the final design phase. An early bid package has been awarded for utility relocation and site preparation. Construction for this work is in progress and is approximately 80 percent complete. The customer is requesting a change to the applied reproduction facility due to operational considerations.
Lane Electric Substation Expansion	This project will expand the existing electrical sub-station to add approximately 37 percent additional power capacity to serve the campus Life Sciences and Northwest Precincts and the Corporate Research Center's proposed expansion.	\$6,500,000	\$6,500,000	AEP and VTES AEP and VTES	TBD	The project is administered by Virginia Tech Electric Service in coordination with Appalachian Power Company (APCo) and Appalachian Electric Power (AEP). Long lead items are being procured. A contract with AEP is being negotiated for design and construction.
Multi-Modal Transit Facility	This is a Capital Lease Project administered by the Town of Blacksburg and is funded by Federal Transportation Administration grants and a university match.	TBD	TBD	Wendel Associates TBD	TBD	Preliminary design is in progress. The project is proposed to be designed for LEED Platinum, providing an on campus sustainability demonstration showcase.
O'Shaughnessy Hall Renovation	This project includes a major renovation of a student 69,200 GSF residence building into a living - learning community.	TBD	\$1,750,000	TBD TBD	TBD	A/E contract negotiation is in progress.

Project Name	Project Description	Estimated Total Project Cost	Non-General Funds	Project Teams	Contract Completion Date	Project Status
Renovate/Renew Academic Buildings	This project will renovate three existing campus buildings - Sandy Hall, Liberal Arts Building, and the original portion of Davidson Hall. Collectively, these renovations will increase the functionality of three underutilized building assets, address several deferred maintenance issues, and reduce critical space deficiencies. A small addition is planned for Sandy and Liberal Arts Buildings to provide for an elevator, ADA accommodations, and circulation space improvements.	\$30,563,000	\$0	Glavè & Holmes Associates Richmond, VA	TBD	Construction Documents were bid by the Construction Manager (CM) and costs came in approximately \$7.5 million, or 30 percent, over budget. At the university's request, the CM rebid the project to an expanded list of subcontractors. A \$1.3 million cost reduction resulted but this is not low enough to award a GMP contract. Therefore, the project will be bid to the open market.
				Grunley Construction Rockville, MD		
<b>CONSTRUCTION</b>						
Airport Hangar Replacement	This project provides for the design and construction of a new 14,000 gross square foot (GSF) airplane hangar at the Virginia Tech / Montgomery Executive Airport. The new facility will replace an outdated airplane hangar that will be demolished in the upcoming airport runway expansion, will have the capacity to house two planes, and will provide interior office space for pilots.	\$2,520,000	\$2,520,000	Landmark Builders of the Triad, Inc. Winston-Salem, NC	April 1, 2016	The construction notice to proceed was issued in July 2015 to the Design - Build contractor. The project is substantially complete and the Temporary Certificate of Occupancy (TCO) was issued on April 25, 2016. Punchlist is ongoing.
				Lindsey Architecture, Greensboro, NC		
Classroom Building	This project provides for the design and construction of a 73,275 square foot (SF) academic building which will contain state-of-the-art instructional space to accommodate the unmet demand for multi-discipline general assignment classrooms and labs. The new academic building will include approximately 15 flexible classrooms and 4 laboratory rooms of various sizes and configurations to accommodate multiple teaching methods. The building will provide approximately 1,600 student stations with wireless capability throughout.	\$42,650,000	\$0	EYP Architecture & Engineering Washington D.C.	July 13, 2016	Construction is in progress. Mechanical systems and interior close-in inspections are in progress. The precast is complete. Window installation is ongoing. Hokie stone construction is in progress. The contractor is working 7 days/week to achieve on-time completion.
				W.M. Jordan Company Newport News, VA		
Fire Alarm Systems and Access	This project provides for critical life safety improvements in several educational and general facilities on campus. Fire alarm systems will be installed or expanded in as many campus buildings as funding allows.	\$4,900,000	\$0	Multiple A/E Firms	Dec-16	Release of construction funding is allocated subject to cost approval in the bidding/construction phase: Architecture Annex, Food Science and Technology, Lane Hall, Litton Reaves Hall, Patton Hall, War Memorial Hall, and Whittemore Hall are in construction. Randolph Hall and Norris Hall are in the design phase.
				Various Contractors		
Residential Door Access Improvements	Project to retrofit and install wireless electronic door access locks on approximately 4,520 student room doors campus-wide.	\$7,735,000	\$7,735,000	Hokie Passport, CNS, and CBORD	Fall 2017	Planning for the lock system in the first half of the residential buildings is underway. The first round of lock installations and system integration will take place in summer 2016. The project will include locks utilizing multi-technology keypad (MTK) readers with corresponding Hokie Passport upgrades to Smart Card technology.
Unified Communications and Network Renewal Project	This project replaces outdated equipment and upgrades campus communications systems, providing infrastructure and equipment enhancements over a five year period. The project scope includes upgrades to the Internet Protocol (IP) Network, the cable plant, and equipment rooms in buildings throughout campus.	\$16,508,000	\$16,508,000	Multiple A/E Firms	Dec-17	The data center team continues to work through the planning, design, and procurement activities for the data center network upgrade. The target completion date for the project is December 2017. The engineering team is working through the Request for Information (RFI) process and have managed a series of engagements with industry leading technology providers. The university's Chief Technology Architect has been involved to ensure alignment with strategic initiatives and programs.
				Various Contractors		
Upper Quad Residential Facilities	This project provides for the demolition and reconstruction of Brodie and Rasche residence halls to serve the Corps of Cadets. The new residence halls totaling approximately 210,000 gross square feet (GSF) will provide over 1,000 beds in double and triple rooms sharing hall community bathrooms. These new residence halls will be constructed at the approximate location of the original Rasche Hall and Brodie Hall. Both buildings will provide double and triple occupancy rooms that meet the residence and in-room storage space needs of the cadets. Both new residence halls will provide dedicated meeting, community, and group spaces, specifically designed to meet Corps program and organization needs. Thomas Hall and Monteith Hall will also be demolished as part of this project.	\$91,000,000	\$91,000,000	Clark Nexsen Charlotte, NC	Pearson - August 8, 2015 Brodie - July 31, 2016	Construction of Pearson Hall (Rasche Hall replacement) is complete. The Corps of Cadets moved in on November 14, 2015. The new Brodie Hall construction is underway, but is behind schedule and tracking for completion in spring 2017.
				Barton Malow Company - Charlottesville, VA		