Open Session Minutes

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023 and Tuesday, June 6, 2023

Open Session Tours
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, June 5, 2022 at 11:15 a.m. in open session in the Classroom Building (1455 Perry Street, Blacksburg, VA 24061) to depart for tours of the new Data and Decision Sciences Building (727 Prices Fork Road, Blacksburg, VA 24061) and the Quillen Spirit Plaza and Dietrick Hall (285 Ag Quad Lane, Blacksburg, VA 24061). A quorum of the Committee was present.

Board members present: Ed Baine, Anna Buhle – Graduate and Professional Student Representative, Shelley Butler Barlow, Dave Calhoun, Carrie Chenery, Sandra Davis, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill, Brad Hobbs, Anna James, Tish Long, Sharon Martin, Melissa Nelson, Jamal Ross – Undergraduate Student Representative, Jeff Veatch, Robert Weiss – Faculty Representative, Serena Young – Staff Representative

University personnel and guests: John Barrett, Lynsay Belshe, Randall Billingsley, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, Alisha Ebert, Mark Embree, Ted Faulkner, Mark Gess, Frances Keene, Chris Kiwus, Sharon Kurek, Meghan Marsh, Ken Miller, Elizabeth Mitchell, George Morgan, Kim O’Rourke, Rob Ogle, Charlie Phlegar, Menah Pratt, Julie Ross, Tim Sands, Amy Sebring, Cara Spicer, John Tarter, Dwyn Taylor, Jon Clark Teglas, Tracy Vosburgh, and guests

Agenda Item
1. Tour of the Data and Decision Sciences Building: The Committee toured the recently completed Data and Decision Sciences Building. The approximately 115,000-gross-square-feet Data and Decision Sciences Building houses faculty and classes from multiple colleges, including the College of Engineering, the College of Science, and the Pamplin College of Business. Its function is to bring together under one roof computer science, engineering, and data-related disciplines to provide opportunities for students, faculty, alumni, and even industry leaders to work side-by-side to address some of the world’s significant data challenges. The Data and Decision Sciences Building includes a multilevel commons area, team rooms in which students across disciplines can work together, specialized labs, data visualization classrooms, and more. The building’s exterior is clad in Hokie Stone and reflects the Collegiate Gothic architectural style found across campus. The facility directly supports the commonwealth’s Technology Talent Investment Program for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries. The tour included perspectives from the construction project team as well as representatives of the College of Engineering, the College of Science, and the Pamplin College of Business.

2. Tour of the Renovated Quillen Spirit Plaza and Dietrick Hall: The Committee toured the recently completed Quillen Spirit Plaza and Dietrick Hall. The Quillen Spirit Plaza is located in the area outside Dietrick Hall that faces Washington Street. It transforms and modernizes a central campus gathering place that connects residential spaces to Athletics via Dietrick Lawn. The plaza is a location for special events, including potential pep rallies.

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
and continues to be an integral part of everyday living, learning, and socializing on campus. The renovations expand the available usable space, infuse more elements that build on the school spirit atmosphere, and help foster social interaction and collaboration. The project incorporated brand elements throughout the plaza; stadium seat walls; new accessible pathways, seating, a sloped lawn, landscape beds, outdoor seating, and tables; and a HokieBird statue for photo opportunities. The Quillen Spirit Plaza is part of a larger renovation project to Dietrick Hall that included a variety of interior improvements – a new Urban Market dining venue, upgrades to Deet’s and DXpress, and enclosing the first-floor overhang to capture nearly 200 additional seats. The Quillen Spirit Plaza was made possible by a $2 million gift from three siblings of the Quillen family: Chris Quillen ’98 and his wife Jennifer, Hunter Quillen Gresham, and Matt Quillen ’06 and his wife Kelsey. The gift is one of the largest gifts in the history of Student Affairs. The tour included perspectives from the construction project team as well as representatives of the Division of Student Affairs.

There being no further business, the meeting adjourned at 12:45 p.m.

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Open Session Meeting

The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, June 6, 2023 at 10:30 a.m. in open session in Room 270 of the Classroom Building (1455 Perry Street, Blacksburg, VA 24061). A quorum of the Committee was present.

Board members present: Shelley Butler Barlow, Carrie Chenery, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill

University personnel and guests: Mac Babb, Alisha Ebert, Mark Gess, Alan Grant, Suzanne Griffin, Wendy Halsey, Heidi Myers, Mary-Ann Ibeziako, Chris Kiwus, Jack Leff, Meghan Marsh, Bernadette Mondy, Mike Mulhare, Nam Nguyen, Justin Noble, Stephanie Overton, Dwyn Taylor, Jon Clark Teglas, Pam Vickers, Paul Winistorfer, Chris Wise, and guests

Agenda Item

3. Consent Agenda: The Committee approved and accepted the items listed on the Consent Agenda.

   a. Approval of the Minutes from the March 2023 Meeting: The Committee approved the minutes from the March 20, 2023 meeting.

   b. Acceptance of the Quarterly Capital Project Status Report: The Committee accepted the quarterly capital project status report.

* 4. Resolution to Authorize the Demolition of University Buildings 0133 (Randolph Hall), 0270C (Randolph Annex), and Partial Demolition 0133C (Hancock Hall): The Committee reviewed for approval a resolution to authorize the demolition of Building No. 0133 (Randolph Hall), Building No. 0270C (Randolph Annex), and the partial demolition of Building No. 0133C (Hancock Hall). These facilities are located in the North Academic District of the main campus in Blacksburg, Virginia. Constructed in 1959, Building No. 0133

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
(Randolph Hall) is a 165,918 gross square foot (GSF) academic facility supporting the College of Engineering and provides a significant number of general assignment classrooms in the core of campus. The facility was constructed in phases, and is a concrete structure with red brick cladding. This demolition request includes all phases and appurtenant structures with the exception of the six-foot stability wind tunnel, acquired in 1958, which will remain operational. The appurtenant modular 3,360 gross square foot structure, Building No. 0270C (Randolph Annex) was constructed in 1989. Constructed in 1990, Building No. 0133C (Hancock Hall) is a 63,075 gross square foot academic building. Currently, Building No. 0133 (Randolph Hall) and Building No. 0133C (Hancock Hall) are interconnected. Demolition of Building No. 0133 (Randolph Hall) removes a shared wall which comprises the envelope enclosure of the east side of Building No. 0133C (Hancock Hall). The 16,550 gross square foot partial demolition of Building No. 0133C (Hancock Hall) includes a two-story north wing which wraps the northwest corner of Building No. 0133 (Randolph Hall). A partial basement of the wing houses an electrical vault which will remain operational. The demolition of Building No. 0133 (Randolph Hall) will allow Building No. 0133C (Hancock Hall) to become a stand-alone facility, with an envelope to be completed via a concurrent capital project. The current facilities are aged, undersized and do not support current pedagogies. These demolitions are enabling the opportunity to provide a site for a state-of-the-art engineering hub and general assignment classroom facility in the core of campus. The university will obtain review from the Department of Historic Resources and the Art and Architecture Review Board, and any required approvals prior to the demolition of these structures.

The Committee recommended the resolution authorizing the demolition of Buildings No. 0133, No. 0270C, and partial demolition of Building No. 0133C to the full Board for approval.

5. Annual Report of the University Building Official: The Committee received the annual report from the University Building Official, Chris Kiel. The University Building Official has primary responsibility for the proper management for, and enforcement of, the Virginia Uniform Statewide Building Code (VUSBC) to ensure that construction projects conducted on property owned by the university are completed in compliance with the code, related laws, and regulations. The office serves as primary liaison with outside regulatory agencies on code issues that affect the design, construction, and approval to occupy new university facilities or maintain existing facilities. The office was established in July 2010 after the Restructured Higher Education Financial and Administrative Operations Act of 2005 and the Management Agreement with the Commonwealth of Virginia granted the university the authority to designate its own building official. Organizationally, the University Building Official reports to the Board of Visitors through the Buildings and Grounds Committee.

6. Update on Agricultural Facilities: The Committee received an update from Alan Grant, dean of the College of Agriculture and Life Sciences, on agricultural facilities planning and construction.

7. Future Agenda Items and Closing Remarks: The Committee discussed potential topics for inclusion on future meeting agendas. Ms. Butler Barlow offered remarks of appreciation to the Committee members for their service and success.

There being no further business, the meeting adjourned at 11:30 a.m.
Joint Open Session with the Finance and Resource Management Committee

The Buildings and Grounds Committee and the Finance and Resource Management Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, June 5, 2023 at 5:00 p.m. in joint open session in Room 260 of the Classroom Building (1455 Perry Street, Blacksburg, VA 24061). A quorum of the joint Committee was present.

Board members present: Ed Baine, Shelley Barlow, Anna Buhle – Graduate and Professional Student Representative, Dave Calhoun, Carrie Chenery, Sandra Davis, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill, Brad Hobbs, Anna James, Tish Long, Sharon Martin, Melissa Nelson, Jeff Veatch, Robert Weiss – Faculty Representative, Serena Young – Staff Representative

University personnel and guests: Janice Austin, Mac Babb, Callan Bartel, Lynsay Belshe, Eric Brooks, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, Corey Earles, Jeff Earley, Alisha Ebert, Ted Faulkner, Mark Gess, Kay Heidbreder, Tim Hodge, Elizabeth Hooper, Frances Keene, Chris Kiwus, Sharon Kurek, Rob Mann, Elizabeth McClanahan, Nancy Meacham, Ken Miller, Jeff Mitchell, Heidi Myers, Justin Noble, Kim O’Rourke, Charlie Phlegar, Menah Pratt, Paul Richter, Tim Sands, Amy Sebring, Brennan Shepard, John Tarter, Dwyn Taylor, Jon Clark Teglas, Rob Viers, Tracy Vosburgh, Mike Walsh, Danny White, Chris Wise, Nick Woods, Chris Yianilos, and guests

Agenda Item

1. **Motion for Joint Open Session**

2. **Approval of Items Discussed in Joint Closed Session:** The Committees reviewed for approval the items discussed in joint closed session.

3. **Approval of Resolution for the Football Locker Room Renovation Project:** The Committees reviewed for approval a Resolution for the Football Locker Room Renovation Project. This 4,200 square-foot renovation project provides a state-of-the-art hydrotherapy suite and renovations to the players’ restrooms and shower facilities within the Jamerson Athletic Facility. The $5.9 million total project cost will be funded with private gifts.

   The Committees recommended the Resolution for the Football Locker Room Renovation Project to the full Board for approval.

4. **Approval of Resolution for Student Life Village, Phase I Planning Authorization:** The Committees reviewed for approval a Resolution for Student Life Village, Phase I Planning Authorization. This $19.4 million planning authorization, funded with auxiliary revenues designated for facility improvements, includes preliminary designs for: sitework; landscaping; utilities; residential, dining, and recreation structures; roads; and pathways.

   The Committees recommended the Resolution for Student Life Village, Phase I Planning Authorization to the full Board for approval.

There being no further business, the meeting adjourned at 5:49 p.m.

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
Open Session Agenda
BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023

Bus departs for tour at 11:00 a.m. from the Classroom Building.

**Agenda Item**
1. Tour of the Data and Decision Sciences Building
   Reporting Responsibility
   Dwyn Taylor
   Kevin Pitts
   Julie Ross
   Robin Russell

2. Tour of the Renovated Quillen Spirit Plaza and Dietrick Hall
   Reporting Responsibility
   Dwyn Taylor
   Frances Keene
   Ted Faulkner

Tuesday, June 6, 2023

Open session meeting begins at 10:30 a.m. in Room 270 of the Classroom Building.

**Agenda Item**
3. Consent Agenda
   Reporting Responsibility
   Committee Chair
   a. Approval of the Minutes from the March 2023 Meeting
   b. Acceptance of the Quarterly Capital Project Status Report

* 4. Resolution to Authorize the Demolition of University Buildings 0133 (Randolph Hall), 0270C (Randolph Annex), and Partial Demolition 0133C (Hancock Hall)
   Reporting Responsibility
   Liza Morris

# 5. Annual Report of the University Building Official
   Reporting Responsibility
   Chris Kiel

# + 6. Update on Agricultural Facilities
   Reporting Responsibility
   Alan Grant

7. Future Agenda Items and Closing Remarks
   Reporting Responsibility
   Committee Chair

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
Joint Closed/Open Session Agenda

FINANCE AND RESOURCE MANAGEMENT COMMITTEE
AND
BUILDINGS AND GROUNDS COMMITTEE

June 5, 2023
5:00 p.m.
Room 260, New Classroom Building

Joint Closed

**Agenda Item**
1. Motion to Begin Joint Closed Session

* 2. Approval of Resolution for the Acquisition of Real Property

**Reporting Responsibility**
Greta Harris

Ken Miller
Chris Kiwus
Bob Broyden

Joint Open

**Agenda Item**
1. Motion to Reconvene in Joint Open Session

2. Approval of Items Discussed in Joint Closed Session

* 3. Approval of Resolution for the Football Locker Room Renovation Project

* 4. Approval of Resolution for Student Life Village, Phase I Planning Authorization

**Reporting Responsibility**
Greta Harris
Ed Baine
Shelley Butler Barlow
Ken Miller
Chris Kiwus
Bob Broyden
Ken Miller
Chris Kiwus
Bob Broyden

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
Tour of the Data and Decision Sciences Building

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023

The Committee will tour the recently completed Data and Decision Sciences Building.

The approximately 115,000-gross-square-feet Data and Decision Sciences Building houses faculty and classes from multiple colleges, including the College of Engineering, the College of Science, and the Pamplin College of Business. Its function is to bring together under one roof computer science, engineering, and data-related disciplines to provide opportunities for students, faculty, alumni, and even industry leaders to work side-by-side to address some of the world’s significant data challenges. The Data and Decision Sciences Building includes a multilevel commons area, team rooms in which students across disciplines can work together, specialized labs, data visualization classrooms, and more. The building’s exterior is clad in Hokie Stone and reflects the Collegiate Gothic architectural style found across campus.

The facility directly supports the commonwealth’s Technology Talent Investment Program for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries.

The tour will include perspectives from the construction project team as well as representatives of the College of Engineering, the College of Science, and the Pamplin College of Business.
Tour of the Quillen Spirit Plaza and Dietrick Hall

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023

The Committee will tour the recently completed Quillen Spirit Plaza and Dietrick Hall.

The Quillen Spirit Plaza is located in the area outside Dietrick Hall that faces Washington Street. It transforms and modernizes a central campus gathering place that connects residential spaces to Athletics via Dietrick Lawn. The plaza is a location for special events, including potential pep rallies, and continues to be an integral part of everyday living, learning, and socializing on campus. The renovations expand the available usable space, infuse more elements that build on the school spirit atmosphere, and help foster social interaction and collaboration. The project incorporated more brand elements throughout the plaza; stadium seat walls; new accessible pathways, seating, a sloped lawn, landscape beds, outdoor seating, and tables; and a HokieBird statue for photo opportunities. The Quillen Spirit Plaza is part of a larger renovation project to Dietrick Hall that included a variety of interior improvements – a new Urban Market dining venue, upgrades to Deet’s and DXpress, and enclosing the first-floor overhang to capture nearly 200 additional seats.

The Quillen Spirit Plaza was made possible by a $2 million gift from three siblings of the Quillen family: Chris Quillen ’98 and his wife Jennifer, Hunter Quillen Gresham, and Matt Quillen ’06 and his wife Kelsey. The gift is one of the largest gifts in the history of Student Affairs.

The tour will include perspectives from the construction project team as well as representatives of the Division of Student Affairs.
Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 6, 2023

The Committee will consider for approval and acceptance the items listed on the Consent Agenda.

Consent Agenda
  a. Approval of the Minutes from the March 2023 Meeting
  b. Acceptance of the Quarterly Capital Project Status Report

* Requires full Board approval.
CAPITAL PROJECTS UPDATE

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS

JUNE 6, 2023
Project Portfolio

- 16 authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~$1.1B
- Adds ~1.4M gross square feet (GSF) of new construction
- Renovates 250K GSF of existing space
## (Progressive) Capital Construction Executive Summary

Date Prepared: 12 MAY 2023

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget (SM) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022 FY22</th>
<th>CY 2023 FY23</th>
<th>CY 2024 FY25</th>
<th>CY 2025 FY26</th>
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</thead>
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<td>Improve Kentland Facilities (Phase II) -- Various Locations</td>
<td>$12.5</td>
<td>$10.1</td>
<td>28,403</td>
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<td>Q3 Q4</td>
<td>Q1 Q2</td>
<td>Q1 Q2</td>
<td>Q1 Q2</td>
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<td>Holden Hall Renovations</td>
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<td>82,905</td>
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<td>Chiller Plant Phase II</td>
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<td>$32.7</td>
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<td>Q3</td>
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<td>Dietrick Renovation</td>
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<td>$6.8</td>
<td>6,298</td>
<td>11,960</td>
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<td>Q2</td>
<td>Q2</td>
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<td>Data &amp; Decision Sciences Building (D&amp;BDS)</td>
<td>$79.0</td>
<td>$58.9</td>
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<td>Q1 Q2 Q2</td>
<td>Q3 Q4 Q3</td>
<td>Q3 Q4 Q3</td>
<td>Q3 Q4 Q3</td>
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<tr>
<td>Livestock &amp; Poultry Research Facilities (Ph I) -- Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
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<td>Q4</td>
<td>Q4 Q4 Q4</td>
<td>Q4 Q4 Q4</td>
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<tr>
<td>Corps Leadership &amp; Military Science Building</td>
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<td>$37.9</td>
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<td>New Upper Quad Residence Hall</td>
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<td>$32.0</td>
<td>56,650</td>
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<td>Q1</td>
<td>Q1</td>
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<td>Multi-Modal Transit Facility</td>
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<td>13,606</td>
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<td>HITT Hall</td>
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<td>101,000</td>
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<td>Q1</td>
<td>Q1</td>
<td>Q1</td>
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<tr>
<td>Innovation Campus - Academic Building</td>
<td>$302.1</td>
<td>$226.3</td>
<td>299,733</td>
<td></td>
<td>Q1 Q1 Q1 Q1</td>
<td>Q1 Q1 Q1 Q1</td>
<td>Q1 Q1 Q1 Q1</td>
<td>Q1 Q1 Q1 Q1</td>
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<tr>
<td>Undergraduate Science Laboratory Building</td>
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<tr>
<td>Student Wellness Improvements</td>
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<td>Building Envelope Improvements</td>
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<td>Q2 Q2 Q2</td>
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<td>Q2</td>
</tr>
<tr>
<td>Life, Health, Safety, Accessibility &amp; Code Compliance</td>
<td>$10.4</td>
<td>$3.9</td>
<td>284,000</td>
<td></td>
<td>Q1</td>
<td>Q1</td>
<td>Q1</td>
<td>Q1</td>
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<tr>
<td>Mitchell Hall (Replace Randolph Hall)</td>
<td>$248.0</td>
<td>$185.0</td>
<td>38,000</td>
<td></td>
<td>Q4</td>
<td>Q4</td>
<td>Q4</td>
<td>Q4</td>
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<tr>
<td>Planning: New Business Building -- Design Only</td>
<td>$8.0</td>
<td>$60.6M</td>
<td>104,000</td>
<td></td>
<td>Q1</td>
<td>Q1</td>
<td>Q1</td>
<td>Q1</td>
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<tr>
<td>Slusher Hall Repairs</td>
<td>$7.5</td>
<td>$5.6</td>
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<td>Q2</td>
<td>Q2</td>
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<td>Q2</td>
</tr>
</tbody>
</table>

**TOTALS** $1,198.8 $1,393,869 $244,649

**Note 1:** Non-VT project

**Note 2:** Multiple GMPs results in design/construction overlap (fast track)

**Note 3:** Building Envelope Improvements includes 4 phases: (1) Lane Stadium (estimated to complete in spring 2024) followed by (2) Torgerson, (3) Hahn and (4) Inn at VT which are currently unscheduled

**Note 4:** Life, Health, Safety Acc. & Code Compl. Includes 3 phases: (1) Derring Steps Elevator Towers (scheduled to complete in DEC 2024) followed by Green Link Priorities 2 & 3 which are currently unscheduled

**Note 5:** Estimated construction completion of Mitchell Hall is DEC 2027
Project Portfolio Distribution

State/BOV Authorized Projects

Legend:
- Prior BOV (MAR 2023)
- Current BOV (JUN 2023)
- Changes since last report

Legend:
- Prior BOV (MAR 2023)
- Current BOV (JUN 2023)
- Changes since last report

1. Mitchell Hall
2. Mitchell Hall
3. NUQ Residence Hall
4. NUQ Residence Hall
5. CID LLC
6. New Business Building
7. New Business Building
8. Corps Ldrship & Mil Sci
9. Corps Ldrship & Mil Sci
10. Gas Fired Boiler
11. Slusher Repairs

Pre-Planning/Feasibility
Design
Construction
Warranty/Close-Out
Closed Out
In Design
Projects In Design

New Business Building

Mitchell Hall
Mitchell Hall
(Replace Randolph Hall)

Status:
- Project fully authorized for construction by General Assembly
- Preliminary Design complete

Next Actions:
- Complete Working Drawings and begin GMP development

Legend:
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget [$M]</th>
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Designer: Perkins & Will           Builder: Skanska

CMaR State Authorized
### Planning: New Business Building

**Status:**
- Schematic Design complete
- Preliminary Design underway
- CMaR contract awarded

**Next Actions:**
- Complete Preliminary Design phase

<table>
<thead>
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<td>104,000</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>$1,312.5</td>
<td>1,625,869</td>
<td>258,357</td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
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</table>

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**Designer:** Moseley

**Builder:** Kjellstrom & Lee
Under Construction
Active Construction Projects

- Multi-Modal Transit Facility (ToB project)
- Corps Leadership & Military Science Building
- New Upper Quad Residence Hall
- Life, Health, Safety, Accessibility
- Student Wellness Improvements
- Innovation Campus Academic Building (Alexandria, VA)
- Livestock & Poultry Research Facilities (Various locations)
- Undergraduate Science Laboratory Building
- HITT Hall
- Slusher Hall Repairs
### Innovation Campus - Academic Building

**Project Title:** Innovation Campus - Academic Building  
**(Note 2)**

<table>
<thead>
<tr>
<th>Project Title</th>
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<th>Renovation (GSF)</th>
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- **PD** = Preliminary Design
- **WD** = Working Drawings

**Construction Budget ($M):**

<table>
<thead>
<tr>
<th></th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY 2022</td>
<td>FY22</td>
<td>FY23</td>
<td>FY24</td>
<td>FY25</td>
</tr>
<tr>
<td>FY22</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
<tr>
<td>FY23</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
<tr>
<td>FY24</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
<tr>
<td>FY25</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
</tbody>
</table>

**Status:**
- Construction approx 58% complete

**Next Actions:**
- Anticipated completion in summer 2024

**Design:**
- **CM at Risk State Authorized**

**Designer:** SmithGroup  
**Builder:** Whiting-Turner

**Note 2:** Multiple GMPs results in design/construction overlap (fast track)
Slusher Hall Repairs

Status:
• Construction contract awarded and under way

Next Actions:
• Anticipated completion in August 2023

Legend:
SD = Schematic Design          PD = Preliminary Design          WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slusher Hall Repairs</td>
<td>$7.5</td>
<td>$5.6</td>
<td>38,000</td>
<td></td>
<td>FY22 Q3</td>
<td>FY23 Q2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FY24 Q1</td>
<td>FY25 Q1</td>
<td>FY26 Q2</td>
</tr>
</tbody>
</table>

Designer: Gresham Smith  
Builder: Kesler Contracting
**Life, Health, Safety, Accessibility & Code Compliance**

**Status:**
- Capital project will be executed in three phases
- Phase 1 (Derring Steps Elevators) construction approx 20% complete
- Phases 2 & 3 (Green links) in design

**Next Actions:**
- Anticipated completion in spring 2024

---

**Project Title** | **Total Project Budget ($M)** | **Construction Budget ($M)** (Construction contract value) | **New Const (GSF)** | **Renovation (GSF)** | **Design** | **Construction**
--- | --- | --- | --- | --- | --- | ---
Life, Health, Safety, Accessibility and Code Compliance (Note 3) | $10.4 | $3.9 | | | | |

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**Construction Budget ($M)**

**FY22**
- Q1: $2.1
- Q2: $2.2
- Q3: $0
- Q4: $2.6

**FY23**
- Q1: $1.8
- Q2: $0
- Q3: $2.3
- Q4: $3.5

**FY24**
- Q1: $0
- Q2: $0
- Q3: $0
- Q4: $0

**FY25**
- Q1: $0
- Q2: $0
- Q3: $0
- Q4: $0

**FY26**
- Q1: $0
- Q2: $0

---

**Designer:** Quinn Evans

**Builder:** WM Jordan
Building Envelope Improvements

Status:
- Envelope improvements planned for four buildings
- First building construction approx 30% complete

Next Actions:
- First building targeted for completion in completion winter/spring 2024

Design-Bid-Build
BOV Authorized

LEGEND: SD = Schematic Design  PD = Preliminary Design  WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Const (GSF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Renovation (GSF)</td>
<td></td>
<td></td>
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<tr>
<td>Construction (GSF)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Building Envelope Improvements</td>
<td>$47.2</td>
<td>$41.9</td>
<td>N/A</td>
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<td></td>
</tr>
</tbody>
</table>

Designer: Quinn Evans
Builder: WM Jordan
**Student Wellness Improvements**

**Status:**
- Construction approx 25% complete

**Next Actions:**
- Anticipated completion in July 2024

---

**Design**
- Construction approx 25% complete

**Next Actions:**
- Anticipated completion in July 2024

---

**CM at Risk**
- BOV Authorized

---

**Project Title**
- Student Wellness Improvements

**Total Project Budget ($M)**
- $70.0

**Construction Contract Value ($M)**
- $56.3

**New Const (GSF)**
- 217,708

**Renovation (GSF)**
- FY22: Q3, Q4
- FY23: Q1, Q2, Q3, Q4
- FY24: Q1, Q2, Q3, Q4
- FY25: Q3, Q2
- FY26: Q1, Q2

**Date**
- CY 2022: JAN-MAR, APR-JUN, JUL-SEP, OCT-DEC
- CY 2023: JAN-MAR, APR-JUN, JUL-SEP, OCT-DEC
- CY 2024: JAN-MAR, APR-JUN, JUL-SEP, OCT-DEC
- CY 2025: JAN-MAR, APR-JUN, JUL-SEP, OCT-DEC

---

**Designer:** Cannon Design

**Builder:** Whiting-Turner
## Undergraduate Science Laboratory Building

### Status:
- Construction approx 30% complete

### Next Actions:
- Anticipated completion in June 2024

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Science Laboratory Building</td>
<td>$90.4</td>
<td>$69.5</td>
<td>102,746</td>
<td></td>
</tr>
</tbody>
</table>

**CM at Risk State Authorized**

**Designer:** ZGF  
**Builder:** Skanska

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**Construction Budget ($M)**

<table>
<thead>
<tr>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
</tr>
</tbody>
</table>

**Design & Construction**
Hitt Hall

**Status:**
- Construction approx 33% complete

**Next Actions:**
- Anticipated completion in March 2024

**Designer:** Cooper Cary

**Builder:** W M Jordan

**LEGEND:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022 Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>HITT Hall</td>
<td>(Note 2)</td>
<td>$85.0</td>
<td>$65.5</td>
<td>101,000</td>
<td>FY22</td>
<td></td>
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<td></td>
<td>AN-MAR</td>
<td>APR-JUN</td>
<td>JUL-SEP</td>
<td>OCT-DEC</td>
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<td>FY23</td>
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<td>FY24</td>
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<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
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<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
</tbody>
</table>

Note 2: Projects will be executed in prioritized sub-projects

CM at Risk
BOV Authorized
Corps Leadership & Military Science Building

Status:
- Construction approx 95% complete

Next Actions:
- Anticipated completion in July 2023

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>Construction Budget (FY22)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corps Leadership &amp; Military Science Building</td>
<td>$52.0</td>
<td>$37.9</td>
<td>65,428</td>
<td>8,449</td>
<td>[Red Bars]</td>
</tr>
</tbody>
</table>

Designer: Clark - Nexsen
Builder: Vannoy

Legend:
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

CM at Risk
BOV Authorized
## New Upper Quad Residence Hall

**Status:**
- Construction approx 85% complete

**Next Actions:**
- Anticipated completion in August 2023

### Construction Budget ($M) (Construction contract value)

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Upper Quad Residence Hall</td>
<td>42.0</td>
<td>32.0</td>
<td>6,650</td>
<td></td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
</tr>
</tbody>
</table>

**Designer:** Clark - Nexsen

**Builder:** Vannoy

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**ATTACHMENT I**

**CM at Risk**

**BOV Authorized**
**Data & Decision Sciences Building**

**Status:**
- Construction complete on budget and on time

**Next Actions:**
- Close out project

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data &amp; Decision Sciences Building (D&amp;DS)</td>
<td>$79.0</td>
<td>$58.9</td>
<td>120,000</td>
<td></td>
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<td></td>
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</tbody>
</table>

**Designer:** Moseley

**Builder:** Kjellstrom & Lee
### Dietrick Renovation
（& Quillen Spirit Plaza）

#### Status:
- Construction complete on budget and on time

#### Next Actions:
- Close out project

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dietrick Renovation</td>
<td>$9.1</td>
<td>$6.8</td>
<td>6,298</td>
<td>11,960</td>
</tr>
</tbody>
</table>

#### Design-Bid-Build
BOV Authorized

#### Designer: Hanbury

#### Builder: Branch Builds
Livestock & Poultry Research Facilities (Phase I)

Status:
- Equine (100%); poultry, swine & beef (99%)

Next Actions:
- Procure bid packages #5 (3 new hay barns) and #6 (demo of existing swine facility)

Legend:
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($)</th>
<th>Construction Budget (SM) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>FY22</th>
<th>Q3</th>
<th>Q4</th>
<th>FY23</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>FY24</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>FY25</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>FY26</th>
<th>Q1</th>
<th>Q2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock &amp; Poultry Research Facilities (Ph I) – Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
<td>129,100</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Designer: Spectrum Design
Builder: (Various)
**Holden Hall Renovation**

Status:
- Warranty period complete

Next Actions:
- Close out project

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holden Hall Renovations</td>
<td>$74.9</td>
<td>$58.5</td>
<td>82,905</td>
<td>20,240</td>
</tr>
</tbody>
</table>

**Construction Budget ($M):**

- **WARRANTY**

**Designer:** Moseley

**Builder:** WM Jordan

**CM at Risk**

State Authorized

**ATTACHMENT I**
**Improve Kentland Facilities (Phase II)**

- **APR Building**: Construction complete
- **BETR Building**: Construction complete
- **MRL Building**: Construction complete

**Next Actions:**
- **APR Building**: None -- warranty period complete
- **BETR Building**: None -- warranty period complete
- **MRL Building**: Resolve manure treatment issue (design/warranty issue)

**LEGEND:**
- **SD** = Schematic Design
- **PD** = Preliminary Design
- **WD** = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve Kentland Facilities (Phase II) -- Various Locations</td>
<td>$12.5</td>
<td>$10.1</td>
<td>28,403</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Design-Bid-Build**

- State Authorized

**Improve Kentland Facilities (Phase II)**

**Designer:** Spectrum Design

**Builder(s):** APR = Snyder; MRL & BETR = CPPI
Chiller Plant (Phase II)

Status:
• Project complete

Next Actions:
• Close out project

Design-Bid-Build State Authorized

Design: AEI
Builder: Faulconer

Legend:
SD = Schematic Design
PD = Preliminary Design
WD = Working Drawings

Budget
Chiller Plant Phase II
 grandchildren

Project Title
Total Project Budget ($M)
Construction Budget ($M) (Construction contract value)
New Const (GSF)
Renovation (GSF)

Construction
WARRANTY

Design
Construction

WARRANTY

FY22
Q1
FY23
Q2
FY24
Q3
FY25
Q4
FY26
Q1
FY27
Q2
**Multi-Modal Transit Facility**

**Status:**
- Construction underway (approx 60% complete)

**Next Actions:**
- Anticipated completion in fall 2023

**Design-Bid-Build**
**Town of Blacksburg (ToB) Project**

**Designer:** Wendel (ToB contract)  
**Builder:** WM Schlosser (ToB contract)
Definitions

- **State Authorized**: Authorized and funded (whole or in part) by the Virginia General Assembly
- **BOV Authorized**: Authorized and funded by the Virginia Tech Board of Visitors
- **Schematic Design Phase** = 0% to approx 20% design complete
- **Preliminary Design Phase** = Approx 20% to approx 50% design complete
- **Working Drawing Phase** = Approx 50% to 100% design complete
- **GMP** = Guaranteed Maximum Price
Construction Methods

Design-Bid-Build (DBB):
• A/E completes full design
• Invitation For Bid (IFB) issued…contract awarded to lowest bidder

Construction Manager at Risk (CMaR):
• A/E completes full design
• Prospective CMaR’s compete for project during early stage of design
• CMaR selected based upon “best value” during Schematic Design phase
• When final designs are complete, CMaR develops Guaranteed Maximum Price (GMP)

Design-Build (D/B):
• A/E completes partial design (“criteria docs”)
• D/B teams (builder + A/E) compete for project and propose full price for project delivery
• Selection based upon “best value”
• D/B team completes design and executes construction
UNIVERSITY BUILDING OFFICIAL

BOARD OF VISITORS

BUILDINGS AND GROUNDS COMMITTEE

JUNE 6, 2023
OFFICE OF THE UNIVERSITY BUILDING OFFICIAL

Established in 2010, the Office of the University Building Official has primary responsibility for the proper management for, and enforcement of, the Virginia Uniform Statewide Building Code to ensure that construction projects conducted on property owned by the university are completed in compliance with the code, related laws, and regulations.
UBO TEAM

Chris Kiel, PE, MCP, CBO
University Building Official

Heather Snidow
Permit Technician/
Administrative Coordinator

Marie Castillo
Assistant Permit Technician

Steven Smith, PE, CBO
Mechanical & Plumbing Code
Plan Reviewer/Inspector

John Bush, AIA
Architectural Code Plan
Reviewer/Inspector

David Brown, CFO
Fire Code Plan
Reviewer/Inspector

Jack Thompson, Jr., PE
Electrical Code Plan
Reviewer/Inspector

Mike Vellines, PE, CBO
Structural Code Plan
Reviewer/Inspector
23% INCREASE TO PRE-COVID NUMBERS
65% INCREASE IN THE NUMBER OF INSPECTIONS WHILE REDUCING THE NUMBER OF PERCENTAGE OF INSPECTION FAILURES BY 3.6%
Special Thanks

Michael Parrish
Whitney Spangler
Gannon Davis
### UBO Completed Inspections Summary

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Name</th>
<th>Inspector</th>
<th>Inspection Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCAP</td>
<td>CORPS LEADERSHIP MILITARY SCIENCE BUILD...</td>
<td>All</td>
<td>4/2/2019</td>
</tr>
</tbody>
</table>

**462** Total Inspections, **21** Failed Inspections, **4.55%** Failure Rate

<table>
<thead>
<tr>
<th>Project #</th>
<th>Status</th>
<th>Project Name</th>
<th>Total Inspections</th>
<th>Failed Inspections</th>
<th>Failure Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBO-20-0346</td>
<td>PERMITTED</td>
<td>CORPS LEADERSHIP MILITARY SCIENCE BUILDING - CLMS NEW CONSTR...</td>
<td>462</td>
<td>21</td>
<td>4.55%</td>
</tr>
</tbody>
</table>

#### Total Inspections, Failure Rate and Failed Inspections by Year and Quarter

- **Total Inspections**: 14.29%
- **Failure Rate**: 5.88%, 4.76%, 4.48%, 3.53%, 6.56%, 2.88%

![Graph showing data tracking by quarter]
THANK YOU!

Office of the University Building Official
540-231-4678
vtubo-g@vt.edu
**PROJECTS IN CONSTRUCTION**

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
<th>PROJECT TEAM(S)</th>
<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve Kentland Facilities, Phase II</td>
<td>Applied Reproduction Facility (APF): 4.10 SF barn at Ve-Med for palpation and breeding instruction. Beef一栋, Teaching and Research (BETR) Facility: 2,156 SF classroom building and 5,183 SF demonstration arena at livestock center on Plantation Road; Metallic Research Laboratory (MRL): 11,130 SF animal laboratory at the Dairy Center at Kentland Farm.</td>
<td>$1,463,800</td>
<td>Spectrum</td>
<td>Snyder, CPPI</td>
<td>Fall 2020</td>
<td>All projects have reached substantial completion and have certificate of occupancy. Minor corrective work at the Metallic Research lab is ongoing.</td>
</tr>
<tr>
<td>New Virginia Seafood AREC Building</td>
<td>2,500 SF, 2-story building to replace existing aging and structurally unsound facility in Hampton, Virginia with state-of-the-art aquaculture research and extension facilities. Facility owned and developed by Virginia Tech Foundation.</td>
<td>$9,260,000</td>
<td>Various</td>
<td>MRM</td>
<td>April 2022</td>
<td>Certificate of Occupancy has been received. Remaining punch list and change order items are complete. Commissioning continues to find and address issues.</td>
</tr>
<tr>
<td>Livestock and Poultry Research Facilities, Phase I</td>
<td>1. New Swine Center at Kentland Farm. 2. New Beef Nutrition Facility &amp; Hay Shed at Kentland Farm. 3. New Dairy Housing Facility at the Turley Research Center (Glade Rd.) 4. New Equitation Barn &amp; Equipment Storage Building at Livestock Center (Plantation Rd.) 5. 3 New Hay Sheds at Smithfield Horse Center, Fields west of US 460, and Heth Farm 6. Final Demolition of remaining facilities.</td>
<td>$21,074,000</td>
<td>Spectrum</td>
<td>Pkg 1: SIMCON Pkg 2: CPPI Pkg 3: CPPI Pkg 4: Clark Nexsen Pkg 5: TBD Pkg 6: TBD</td>
<td>Packages 1-4: Summer 2023 Packages 5-6: TBD</td>
<td>Packages 1-2 are 90% complete. Package 4 is 100% complete. Priority 1 Equipment buy-out is nearly complete. Occupancy to occur over summer. Packages 5-6: Packages 5 and 6 are being prepared for bidding to secure funding.</td>
</tr>
</tbody>
</table>

**PROJECTS IN DESIGN**

**PROJECT INITIATION / PLANNING STAGE**

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
<th>PROJECT TEAM(S)</th>
<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2024-2030 6-Year Capital Outlay Plan</td>
<td>Capital budget requests for six projects: CNRE Center Woods, System-Wide AREC Improvements Phase I, Glade Road Relocation, Livestock and Poultry Facilities Phase I, Human and Agricultural Biosciences Building I, and System-Wide AREC Improvements Phase II.</td>
<td>TBD</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Following approval of the 2024-2030 Capital Outlay Plan by the Board of Visitors, program and cost validation is underway for selected projects to be submitted this summer for state funding consideration.</td>
</tr>
<tr>
<td>System-Wide AREC Improvements, Phase I</td>
<td>Renew and expand aging and deteriorating AREC facilities. Revised phasing will address all capital needs at specific ARECs during each phase.</td>
<td>$40,000,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Revising priority needs to determine 2-3 ARECs for inclusion in Phase I scope.</td>
</tr>
<tr>
<td>Replace Plant and Animal Facilities at Glade Road</td>
<td>Relocate existing facilities away from the Glade Road Research Facility.</td>
<td>$41,000,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Revising program and budget with CFIF for budget submission.</td>
</tr>
<tr>
<td>Plant &amp; Animal Environmental Sciences Research Facility (PASR-II)</td>
<td>Construct new research lab facility for the School of Plant and Environmental Sciences to co-locate numerous research teams in one location with modernized facilities to focus on studying climate change.</td>
<td>$11,900,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Re-programming effort completed with a $33.5 M construction target. Draft Feasibility report is under review.</td>
</tr>
</tbody>
</table>

**NON-CAPITAL PROJECTS**

 Updates through May 31, 2023

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
<th>PROJECT TEAM(S)</th>
<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Projects ($350,000 limit)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Soak &amp; ARB fuel containment Pit repairs</td>
<td></td>
<td>$15,000</td>
<td>CALS / VAES</td>
<td></td>
<td>Winter 2022/2023</td>
<td>Complete</td>
</tr>
<tr>
<td>Kentland Farm Road Improvements</td>
<td>Due to deteriorating asphalt pavement in areas of Kentland Farm road network, certain areas require spot repairs, patching, and pavement overlay to maintain the road surface. Additional areas for paving include the gravel roads to the new swine center and an overlay of the 66A/Uny road.</td>
<td>$105,000</td>
<td>CALS</td>
<td>Blackstone</td>
<td>May 2023</td>
<td>Complete</td>
</tr>
</tbody>
</table>
### Projects in Construction

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Description</th>
<th>Estimated Total</th>
<th>Funds Source</th>
<th>Project Teams</th>
<th>Contract Completion Date</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern Virginia AREC - Experiment Building Renovation</td>
<td>Renovation and upgrade of existing under-utilized office, workshop and meeting space. Building HVAC system has failed and is not working. Electrical and plumbing are outdated. Building is not ADA accessible. General condition is deteriorating.</td>
<td>$116,000</td>
<td>Maintenance Reserve</td>
<td>Structures Group</td>
<td>Spring 2023</td>
<td>Construction is substantially complete. Punch list work in progress.</td>
</tr>
<tr>
<td>Southern Piedmont AREC - Packhouse Restroom Repairs</td>
<td>Packhouse (98B7) restroom is in need of plumbing repairs and upgrade to be reconfigured for ADA access. Packhouse roof is leaking and needs roof repair.</td>
<td>$122,000</td>
<td>Maintenance Reserve</td>
<td>Thompson &amp; Litton</td>
<td>Spring 2023</td>
<td>Work is complete.</td>
</tr>
<tr>
<td>Tidewater AREC - Water system repair</td>
<td>Water line from well to main office complex is failing in multiple locations and requires frequent repairs, creating water quality concerns. Project is to connect to public water system with 2-inch water line, add backflow preventer, and re-connect non-potable water line to well for irrigation applications.</td>
<td>$94,000</td>
<td>Maintenance Reserve</td>
<td>Lewis Construction</td>
<td>Summer 2023</td>
<td>City water line is complete to new meter. New water line from meter to building installed. Backflow Preventer and new non-potable irrigation line to be installed summer 2023.</td>
</tr>
<tr>
<td>Princetown Quarantine Lab Emergency Generator</td>
<td>Installation of new backup generator for operational reliability at Entomology Quarantine facility at Princetown Research Center.</td>
<td>$46,000</td>
<td>CALS / VAES</td>
<td>Virginia A&amp;E</td>
<td>Summer 2023</td>
<td>Generator ship date is June 2023. Work is expected to take 1 month.</td>
</tr>
<tr>
<td>Princetown Quarantine Lab Autoclave Installation</td>
<td>Installation of new 3-phase electric service and new autoclave for more reliable sterilization process.</td>
<td>$105,000</td>
<td>CALS</td>
<td>Davis H. Elliott</td>
<td>Fall 2023</td>
<td>Work is scheduled to begin in July.</td>
</tr>
<tr>
<td>Turfgrass Research Center Equipment Shed</td>
<td>New, L-shaped foot open front-pole shed at the Turfgrass Research Center for weather-protected storage of equipment.</td>
<td>$60,000</td>
<td>CALS</td>
<td>Superior</td>
<td>TBD</td>
<td>Stirwork in progress. Construction schedule being established.</td>
</tr>
<tr>
<td>Tidewater AREC Entomology Lab Heat Pump Replacement</td>
<td>Existing heat pump is failing and must be replaced.</td>
<td>$11,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Equipment on hand. Installation being scheduled.</td>
</tr>
<tr>
<td>Hampton Roads AREC Chiller Replacement</td>
<td>Existing chiller failed and must be replaced before cooling season.</td>
<td>$116,000</td>
<td>Maintenance Reserve</td>
<td>Virginia A&amp;D</td>
<td>TBD</td>
<td>Temporary chiller installed. New unit scheduled for late July delivery.</td>
</tr>
<tr>
<td>Alcovy H. Smith Jr. AREC Chilled Water System repairs</td>
<td>Existing chillers are leaking and utilize a refrigerant that is no longer readily available. System condition is deteriorating and in need of major repair and replacement.</td>
<td>$438,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Temporary chiller installed mid-May. 1 year +/- leadtime for permanent unit.</td>
</tr>
<tr>
<td>PROJECT NAME</td>
<td>PROJECT DESCRIPTION</td>
<td>ESTIMATED TOTAL PROJECT COST</td>
<td>FUND SOURCE</td>
<td>PROJECT TEAMS</td>
<td>CONTRACT COMPLETION DATE</td>
<td>PROJECT STATUS</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------------</td>
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</tr>
<tr>
<td>Greenhouse FS Structural and Mechanical Repairs</td>
<td>End wall of Greenhouse FS at the late Greenhouse Complex on Washington Street has deteriorated and needs to be repaired, along with mechanical equipment installed in the wall. Electrical repairs are also required.</td>
<td>$160,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Final cost is being developed with term contract greenhouse contractor.</td>
</tr>
<tr>
<td>Heth Farm Shed and Lilo Demolition</td>
<td>Demolish two structures that are currently unsafe and operationally unnecessary</td>
<td>TBD</td>
<td>CALES</td>
<td>TBD</td>
<td>TBD</td>
<td>Led and asbestos study complete. Obtaining quotes and permits for demolition.</td>
</tr>
<tr>
<td>Judging Pavilion Repairs</td>
<td>Exterior and interior demolition followed by installation of new flooring, doors, windows, HVAC system, lighting, a covered walkway and exterior paint. This work was originally included in LPRF Phase 1, but removed due to scope concerns.</td>
<td>$360,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope review with University Building Official (UBO) is necessary to resolve code requirements and funding eligibility. Project deferred to 2023.</td>
</tr>
<tr>
<td>Campbell Arena Repairs</td>
<td>New enclosure of the existing open-air steel structure constructed of metal panel siding over steel girts and posts. This work was originally included in LPRF Phase 1, but removed due to scope concerns. Existing equitation barn to be repurposed for small animal research and extension activities.</td>
<td>$90,000</td>
<td>Maintenance Reserve, CALES</td>
<td>TBD</td>
<td>TBD</td>
<td>U/C Proposal development underway.</td>
</tr>
<tr>
<td>Middleburg AREC Stable exterior repairs</td>
<td>Existing roof and windows are leaking. Several stalls are unusable due to leaks. Several windows are rotten.</td>
<td>$100,000</td>
<td>Maintenance Reserve</td>
<td>5 Design</td>
<td>TBD</td>
<td>Design work underway.</td>
</tr>
<tr>
<td>Middleburg AREC Clinic/Admin Building HVAC repairs</td>
<td>Two existing heat pump systems have failed during critical and ongoing research projects.</td>
<td>$40,000</td>
<td>Maintenance Reserve</td>
<td>5 Design</td>
<td>TBD</td>
<td>Design work underway. Temporary repairs made in May.</td>
</tr>
<tr>
<td>Tidewater AREC Main Office and Lab Roof Replacement</td>
<td>Existing roof is leaking causing damage to main lobby interior walls and classroom area.</td>
<td>$78,000</td>
<td>Maintenance Reserve</td>
<td>HDH</td>
<td>TBD</td>
<td>Design drawings in progress.</td>
</tr>
<tr>
<td>Southern Piedmont AREC - Building Repairs</td>
<td>Repair/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (0893A, 0893B, 0893C, 0893D)</td>
<td>$51,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Design drawings under review.</td>
</tr>
<tr>
<td>Southern Piedmont AREC - Pavement repairs</td>
<td>Existing main parking lots (S) and primary internal roadways are deteriorating and in need of repair. Approximately 1,300 square feet of milling and 8,400 square yards of 2-inch asphalt overlay required.</td>
<td>$126,000</td>
<td>CALES / VAGES</td>
<td>TBD</td>
<td>TBD</td>
<td>Contractor quote being updated.</td>
</tr>
<tr>
<td>Southern Piedmont AREC Greenhouse Controls Upgrade</td>
<td>Minor project to make power connections for new Smart Greenhouse controls in two greenhouse ranges.</td>
<td>TBD</td>
<td>CALES</td>
<td>TBD</td>
<td>TBD</td>
<td>Equipment has been ordered.</td>
</tr>
<tr>
<td>Sheep Barn Structural Repairs</td>
<td>Additional structural required to support weight of hay in loft above.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Schematic design approved. Final design in progress.</td>
</tr>
</tbody>
</table>
**ATTACHMENT I**

**PROJECT TEAMS**

Private

CALS / VAES

FUND SOURCE

TBD

ESTIMATED TOTAL PROJECT COST

TBD

PROJECT TERMS

TBD

PROJECT INITIATION / PLANNING STAGE

**PROJECT NAME**

**PROJECT DESCRIPTION**

CALS is experiencing significant and growing land pressure to meet nutrient management plan requirements, which would be greatly eased by the proposed compost facility. This initiative also has an extremely high level of student support as well as potential partnerships with Dining Service, Athletics and Facilities. Project is included in 228-2 Capital Budget Request, but is a high priority for separate, earlier funding, if possible, due to regulatory risk exposure from limited manure storage during winter months.

Shenandoah Valley AREC - Repair/Replace Sheep Barn

Sheep Barn (0854) has rotten posts at ground level and leaking roof. The building should be evaluated for repair or replacement.

Southern Piedmeont AREC Modular Housing

Addition of a new 4-bedroom modular employee housing unit at Southern Piedmont AREC.

Tidewater AREC - Repair paving and parking

Existing asphalt parking lot and driveways are deteriorating and in need of repaving.

Turkey Farm Processing Building Repair

Interior Demolition followed by the installation of new cold-formed steel stud interior partitions, new doors and windows, fiberglass reinforced plastic paneling and epoxy painted floors. This work was originally included in URF Phase I, but removed due to scope concerns.

Moore Farm Barns DSGI Repairs

This highly visible and prominent barn is for many purposes such as working of sheep, lambing facility, hay bale storage, emergency storage for weather affected crops, and equipment and parts storage. The condition of the roof and siding is poor, failing to provide the necessary weather protection. Without mitigation soon, the condition will deteriorate to the point of loss.

Moore Farm Shed DSGI Repairs

This hay shed was built in the 1950's and received heavy use for that purpose. Over the years its condition has continued to worsen and recent wind and snow storms have accelerated the deterioration. In order to execute research projects utilizing recently renovated fields, the Beef Cattle unit now needs to utilize this shed as a working facility for cattle. This would involve paving a concrete floor and moving in cattle working equipment. However, the structural condition of this facility is poor and should be addressed prior to additional use. It may be more cost-effective to rebuild than to repair this structure.

Alsion H. Smith AREC - Repair paving and parking

Existing asphalt parking lot and driveways are deteriorating and in need of repaving.

Tidewater AREC - Renovation Cartage House

Renovate Cartage House to add two single-user public restrooms and welcome center area for visitors to the NCCEmick Farm.

Smithfield Equine Complex

Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add bleachers, restrooms, announcer raised, fencing, quarantine facility.

Eastern Shore AREC - Lab GSB Renovation

Split of existing space to accommodate new research lab.

TBD

CALS

TBD

AJS procurement underway.

TBD

TBD

CONTRACT COMPLETION DATE

TBD

PROJECT STATUS

Design in progress.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.

Scope and budget development.
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<tbody>
<tr>
<td>Griffeth Equine Classroom Renovations, Phase 2</td>
<td>Completion of building envelope repairs, restroom repairs, accessibility improvements.</td>
<td>$110,000</td>
<td>Maintenance Reserve, CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>INFORMATION TECHNOLOGY (IT) PROJECTS</td>
<td></td>
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<tr>
<td><strong>PROJECTS COMPLETED</strong></td>
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</tr>
<tr>
<td>Real Time Kinematic (RTK)</td>
<td>This project installs Real Time Kinematic (RTK) systems at select ARECs. RTK enables the ARECs to improve precision agriculture research practices by increasing the precision of standard GPS from an accuracy of 2-4 meters to ~1 centimeter.</td>
<td>$213,000</td>
<td>CALS / VAEIS</td>
<td>CALS IT John Dore Trousdale</td>
<td>Complete</td>
<td>All systems installed, tested, and operational</td>
</tr>
</tbody>
</table>
| Kentland 5G Proposal | A project has been initiated potentially install new technology in fields that is similar to Wi-Fi but with better exterior coverage and security management. The proposal is to study the effectiveness of this equipment for supporting data-intensive agricultural research. The initial project will be a small-scale trial at Kentland Farm. | TBD | TBD | CALS IT Division of IT | Cancelled | 5G Consortium issued RFP for a proposal and awarded funding to VTNSI. The equipment is to be installed on campus to manage and operate the networks at the ARECs.

**PROJECTS IN PROGRESS** | | | | | | |
| Bandwidth and Internet Connectivity Improvements | Identify and implement bandwidth upgrade opportunities across campus locations to enhance research and address emerging requirements. | Various | CALS / VAEIS | CALS IT Division of IT | Ongoing | Ongoing |
| ARB Voice-Over Internet Protocol (VoIP) Conversion | Convert legacy telephone systems at all ARECs to unified Voice Over Internet Protocol (VoIP) systems to match the voice service on campus. | $75,000 | CALS / VAEIS | CALS IT Division of IT | On Hold | Ongoing (no ECD at this time) |
| Network Equipment Upgrades and Expansion | This project replaces or upgrades aging Local Area Network (LAN) equipment as well as expand in buildings with better exterior coverage and secure wireless capabilities. This effort also includes the procurement and installation of new "backend" equipment that will be installed on campus to manage and operate the networks at the ARECs and other extension offices. | $1,140,000 | CALS / VAEIS | CALS IT | Ongoing | Ongoing |
| Eastern Virginia ARB Field/SmartWireless | Installation of new technology, similar to Wi-Fi but with better exterior coverage and security management, a fields at Eastern Virginia ARB to study the effectiveness of this equipment for supporting data-intensive agricultural research, and to explore the potential of a new "backend" system. | $110,000 | CALS / VAEIS | CALS IT Dairy IAM, Pierson Wireless | On Hold | Ongoing (no ECD at this time) |

**PROJECT INITIATION / PLANNING STAGE** | | | | | | |
| | | | | | | |
UPDATE ON AGRICULTURAL FACILITIES

Alan L. Grant, Ph.D.
Dean of the College of Agriculture and Life Sciences

June 6, 2023
NON-CAPITAL PROJECT PROGRESS - COMPLETED

AHS Jr. AREC Fuel Containment Pit Repairs and Sealing

Eastern Virginia AREC Experiment Building Repairs

Kentland Farm Paving Plan
Spring 2023

Kentland Farm Roadway Maintenance and Repaving

Southern Piedmont AREC Packhouse Restroom Repairs
NON-CAPITAL PROJECT PROGRESS

Key Projects In Progress

- Tidewater AREC Water System Improvements, Phase 2
- Southwest AREC Ram Barn Shed Extension
- Fume hood replacement at SPAREC, HRAREC, and ESAREC
- Pavement / Parking Repairs at TAREC, AHS AREC, SPAREC, Alphin-Stuart Arena, Kentland Farm
- PFRC BIQL Emergency Generator and New Autoclave Installation
- SPAREC Modular Housing project

17 projects in CONSTRUCTION
24 projects in DESIGN
12 projects in PLANNING

Proposed 4-bedroom modular housing unit

Southwest AREC Ram Barn Shed Extension in progress
AREC Fume Hood to be replaced
CAPITAL PROJECT PROGRESS - CONSTRUCTION

LIVESTOCK AND POULTRY RESEARCH FACILITIES, Phase 1, Bid Package Updates:

- BP 1 Swine: 99% Complete - sitework corrections required.
- BP 2 Beef Nutrition (99%) and Kentland Hay Shed (100%): 99% complete - Concrete repairs required.
- BP 3 Turkey and Broiler Grow-out Facilities: 99% Complete - watering system installation to be completed.
- BP 4 Equine and Equipment Storage: 100% complete. Animal occupancy planned for July.
- BP 5 Three Hay Sheds and Demolition: Bidding early summer. 18+ month project duration.
- BP 6 Final Demolition: to be combined with BP 5.
Agency 229 Six-year Capital Outlay Plan for 2024-2030

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Improve Center Woods Complex (CNRE)</td>
<td>25,900 GSF</td>
</tr>
<tr>
<td>2.</td>
<td>System-Wide AREC Improvements, Phase 1</td>
<td>71,000 GSF</td>
</tr>
<tr>
<td>3.</td>
<td>Replace Plant and Animal Facilities at Glade Road</td>
<td>64,200 GSF</td>
</tr>
<tr>
<td>4.</td>
<td>HABB-II Plant and Environmental Sciences Research Facility</td>
<td>94,000 GSF</td>
</tr>
<tr>
<td>5.</td>
<td>Renew Animal and Livestock Facilities, Phase 2</td>
<td>102,600 GSF</td>
</tr>
</tbody>
</table>

**Six-Year Capital Outlay Plan Development**
*September – February*

**Board Plan Review & Approval**
*March*

**Capital Budget Submission to State**
*June*

**State Capital Budget Review and Approval**
Technology and Connectivity

- AREC and VCE Network Equipment Upgrade and Expansion Project
  - All General Assembly funded equipment has finally arrived
  - Installations have started and will continue for much of the year
  - Five ARECs were recently upgraded with a total of 20 new switches and 80 new wireless access points
Technology and Connectivity

- AREC audiovisual upgrades
  - Phase I (larger ARECs) complete
  - Phase II focusing on smaller offices and continued enhancements to larger offices
  - Processing orders for five ARECs