Open Session Tour
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met on Tuesday, June 7, 2022 at 8:00 a.m. for an urban forestry and campus landscape tour. The tour originated at the Lobby of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Road, Blacksburg) and concluded at the New Classroom Building (1455 Perry Street, Blacksburg). A quorum of the Buildings and Grounds Committee was present.

Board of Visitors Members
Present:  
Shelly Butler Barlow (Committee Chair)  
Sharon Brickhouse Martin  
C.T. Hill  
Chris Petersen  
Mehul Sanghani  
Horacio Valeiras  
Preston White  

Absent:  
Tish Long (Rector)  
Ed Baine  
Carrie Chenery  
Greta Harris  
Anna James  
Jeff Veatch  

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members:
Lynsay Belshe, Bob Broyden, Wendy Halsey, Jamie King, Chris Kiwus, Jack Leff, Megan Marsh, Jon Clark Teglas, Paul Winistorfer

1. Urban Forestry and Campus Landscape Tour: The Committee assembled in the lobby of the Inn for an urban forestry and campus landscape tour. The Division of Campus Planning, Infrastructure, and Facilities is responsible for coordinating efforts to assure that our buildings and grounds constantly express the sense of place and quality that is intrinsic to Virginia Tech. Interwoven into the Blacksburg campus landscape, among the daily activities of students and employees and the memories of proud alumni, are more than 10,000 trees. Like Hokie Stone-clad buildings, trees are enduring symbols of pride for the university community — steadfast, scenic, and integral to sustainability. The Committee was briefed by University Arborist, Jamie King – an alumnus of Virginia Tech – who has been at the center of deepening campus efforts around tree preservation and sustainability since his hire in 2019. In support of the Virginia Tech 2020 Climate Action Commitment, the university has invested in and actively leverages the grounds system as a living laboratory. Having earned Tree Campus USA designation for 14 years in a row, this recognition directly highlights the university’s commitment to tree preservation, community engagement, and experiential learning.

♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
opportunities. The Committee also met several members of the university’s grounds crew. These team members maintain the functional, access, and aesthetic standards for 850 intensively managed acres on campus, 20 miles of roadway, 20 miles of sidewalks, 70 parking lots, and the 4-acre Duck Pond.

The tour concluded at 9:40 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 reconvened on Tuesday, June 7, 2022 at 10:00 a.m. in joint open session in Room 260 of the New Classroom Building (1455 Perry Street, Blacksburg). A quorum of the joint Committee was present.

Board of Visitors Members
Present: Tish Long (Rector)
Shelly Butler Barlow (Committee Chair)
Ed Baine (Committee Chair)
Sharon Brickhouse Martin
C.T. Hill
Chris Petersen
Mehul Sanghani
Horacio Valeiras
Preston White

Absent: Carrie Chenery
Anna James
Melissa Nelson
Jeff Veatch
Greta Harris

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members: President Tim Sands, Callan Bartel, Lynsay Belshe, Eric Brooks, Bob Broyden, Brock Burroughs, Caroline Buscaglia, Al Cooper, Alisha Ebert, Kari Evans, David Gerrard, Alan Grant, Tony Haga, Wendy Halsey, Jim Hillman, Frances Keene, Chris Kiel, Chris Kiwus, Kayla Lambert, Jamie Lau, Jack Leff, Rob Mann, Megan Marsh, Elizabeth McClanahan, Nancy Meacham, Ken Miller, Liza Morris, Mike Mulhare, Heidi Myers, Kim O’Rourke, James Perkins, Charlie Phlegar, Dwyn Taylor, Jon Clark Teglas, Chris Wise

* 1. Approval of Resolution to Supplement the Student Wellness Improvements Authorization: The Committees reviewed for approval a resolution to supplement the student wellness improvements authorization. This request was for a $12 million supplement to adjust the total authorization for the Student Wellness Improvements project to $70 million to complete a renovation of War Memorial Hall.

Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
The Committees recommended the Resolution to Supplement the Student Wellness Improvements Authorization to the full Board for approval.

There being no further business, the joint meeting adjourned at 10:08 a.m.

*******************************************************

Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University reconvened on Tuesday, June 7, 2022 at 10:30 a.m. in open session in Room 260 of the New Classroom Building (1455 Perry Street, Blacksburg). A quorum of the Buildings and Grounds Committee was present.

Board of Visitors Members
Present:  
Tish Long (Rector)
Shelly Butler Barlow (Committee Chair)
C.T. Hill
Chris Petersen
Mehul Sanghani
Horacio Valeiras

Absent:  
Ed Baine
Sharon Brickhouse Martin
Carrie Chenery
Greta Harris
Anna James
Melissa Nelson
Jeff Veatch
Preston White

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members:
President Tim Sands, Lynsay Belshe, Eric Brooks, Caroline Buscaglia, Van Coble, Al Cooper, Jeff Earley, Alisha Ebert, Kari Evans, David Gerrard, Alan Grant, Tony Haga, Wendy Halsey, Jim Hillman, Patrick Hilt, Elizabeth Hooper, Frances Keene, Chris Kiel, Chris Kiwus, Kayla Lambert, Jamie Lau, Jack Leff, Joy Manning, Megan Marsh, Ross Mechem, Bernadette Mondy, Liza Morris, Mike Mulhare, Heidi Myers, Kim O'Rourke, James Perkins, Charlie Phlegar, Dan Sui, Dwyn Taylor, Jon Clark Teglars, Lisa Wilkes

2. Welcome: The Committee Chair convened the meeting and provided welcoming remarks.

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

   a. Approval of the Minutes from the April 4, 2022 Meeting: The Committee reviewed for approval the minutes from the April 4, 2022 meeting.

   ✦ Discusses Enterprise Risk Management topic(s).
   * Requires full Board approval.
b. **Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Fiber at the Virginia Tech Corporate Research Center:** The Committee reviewed for approval a resolution authorizing the Interim Senior Vice President and Chief Business Officer to execute an amendment to the existing easement, or a new easement as may be appropriate, to the Town of Blacksburg. The Shenandoah Telecommunications Company (Shentel) has requested the university grant the easement to the town in the area of Research Center Drive between Forecast Drive and Pratt Drive on the Blacksburg campus in support of the town’s internet expansion project.

The Committee recommended the resolution to the full Board for approval.

c. **Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Squires Parking Lot:** The Committee reviewed for approval a resolution authorizing the Interim Senior Vice President and Chief Business Officer to execute an easement to the Town of Blacksburg. The Town of Blacksburg has requested the university grant an easement for the installation and upgrade of a sanitary sewer line in the area of Squires Student Center, in support of the Blacksburg campus’ sanitary sewer capacity.

The Committee recommended the resolution to the full Board for approval.

d. **Resolution to Approve a Joint Appointment to the New River Valley Regional Water Authority:** The Committee reviewed for approval a resolution authorizing the re-appointment of Dr. William R. Knocke as the at-large member to the New River Valley Regional Water Authority for a new four-year term.

The Committee recommended the resolution to the full Board for approval.

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

4. **Update on Agricultural Facilities:** The Committee received an update on agricultural facilities planning and construction from Alan Grant, Dean of the College of Agriculture and Life Sciences, and David Gerrard, Head of the Department of Animal and Poultry Sciences. The progress of several capital and non-capital investments that will have significantly positive programmatic impact were highlighted.

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

♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
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 also serves as an integral partner in ensuring physical accessibility on campus. 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 directly and exclusively to the Board of Visitors through the Buildings and Grounds Committee.

6. **Overview of the Facilities Renovations Program:** The Committee received an overview of the university’s renovations program from Assistant Vice President for Facilities Operations, Wendy Halsey, and Director of Renovations, Joy Manning. Facility improvements with a total project cost below $3 million or involve less than 5,000 gross square feet of new space are managed via the renovations program. Hundreds of renovations projects completed each year provide significant and direct impact to the university’s students, faculty, and staff.

7. **Future Agenda Items and Closing Remarks:** The Committee discussed potential topics for inclusion on future meeting agendas. Given that a new Committee will convene at the next meeting, in-depth overviews of both the capital construction program and the campus master plan are planned for the August meeting. It was noted that the timing of these overviews, paired with the substantial progress on the Student Life Village master plan – which the Committee received in-depth briefings during Board meetings in November 2021 and April 2022 – presents an opportunity to consider adding the Student Life Village study as a supplemental appendix to the aggregate campus master plan.

    There being no further business, the meeting adjourned at 11:15 a.m.

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♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
Open Joint Session Agenda

FINANCE AND RESOURCE MANAGEMENT COMMITTEE
AND BUILDINGS AND GROUNDS COMMITTEE

Room 260, New Classroom Building

10:00 a.m.

June 7, 2022

<table>
<thead>
<tr>
<th>Agenda Item</th>
<th>Reporting Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>* 1. Approval of Resolution to Supplement the Student Wellness Improvements Authorization</td>
<td>Ken Miller</td>
</tr>
<tr>
<td></td>
<td>Chris Kiwus</td>
</tr>
<tr>
<td></td>
<td>Bob Broyden</td>
</tr>
</tbody>
</table>

* Requires full Board approval.
◆ Discusses Enterprise Risk Management topic(s).
Open Session Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 7, 2022

Bus departs for tour at 8:00 a.m. from the Lobby of the Inn at Virginia Tech and Skelton Conference Center.

Open session meeting begins at 10:30 a.m. in Room 260 of the New Classroom Building.

**Agenda Item**

1. Urban Forestry and Campus Landscape Tour

   Reporting
   Responsibility
   Chris Kiwus

2. Welcome

   Shelley Butler Barlow, Chair

3. Consent Agenda
   a. Approval of the Minutes from the April 4, 2022 Meeting
   b. Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Fiber at the Virginia Tech Corporate Research Center
   c. Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Squires Parking Lot
   d. Resolution to Approve a Joint Appointment to the New River Valley Regional Water Authority
   e. Acceptance of the Capital Project Status Report

   Shelley Butler Barlow, Chair

4. Update on Agricultural Facilities

   Alan Grant
   David Gerrard

5. Annual Report of the University Building Official

   Chris Kiel

6. Overview of the Facilities Renovations Program

   Wendy Halsey
   Joy Manning

7. Future Agenda Items and Closing Remarks

   Shelley Butler Barlow, Chair

♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
Urban Forestry and Campus Landscape Tour

BUILDINGS AND GROUNDS COMMITTEE

June 7, 2022

The Committee will assemble in the lobby of the Inn for an urban forestry and campus landscape tour.
Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

June 7, 2022

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

Consent Agenda
  a. Approval of the Minutes from the April 4, 2022 Meeting

  * b. Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Fiber at the Virginia Tech Corporate Research Center

  * c. Resolution to Approve a Public Utility Easement to the Town of Blacksburg – Squires Parking Lot

  * d. Resolution to Approve a Joint Appointment to the New River Valley Regional Water Authority

  e. Acceptance of the Capital Project Status Report

* Requires full Board approval.
BOARD OF VISITORS BUILDINGS AND GROUNDS COMMITTEE
MINUTES

Monday, April 4, 2022

Open Session Tour
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met on Monday, April 4, 2022 at 8:00 a.m. for a tour of Holden Hall and the Data & Decision Sciences Building construction site. The tour originated and ended at the Lobby of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Road, Blacksburg). A quorum of the Buildings and Grounds Committee was present.

Board of Visitors Members
Present:  
Shelly Butler Barlow (Committee Chair)  
Ed Baine  
C.T. Hill  
Melissa Nelson  
Horacio Valeiras  
Preston White

Absent:  
Tish Long (Rector)  
Sharon Brickhouse Martin  
Carrie Chenery  
Greta Harris  
Anna James  
Chris Petersen  
Mehul Sanghani  
Jeff Veatch

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)  
Phil Miskovic (Graduate Student Representative)

Also present were the following Virginia Tech staff members:  
President Tim Sands, Lynsay Belshe, Taylor Bolte, Bob Broyden, Kevin Carlson, Cyril Clarke, Sean Corcoran, Aaron Curfiss, Alisha Ebert, Katrina Estep, Mark Gess, Chris Kiel, Chris Kiwus, Kray Luxbacher, Megan Marsh, Elizabeth McClanahan, Elizabeth Mitchell, Liza Morris, Ed Nelson, Rob Ogle, Kim O'Rourke, Jeff Orzolek, Mark Owczarski, Julia Ross, Todd Shelton, John Tarter, Dwyn Taylor, and Jon Clark Teglas

The Committee assembled in the lobby of The Inn for a tour of Holden Hall and the Data & Decision Sciences Building construction site.

The tour concluded at 9:40 a.m.

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♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, April 4, 2022 at 10:00 a.m. in open session in the Solitude Room of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Road, Blacksburg). A quorum of the Buildings and Grounds Committee was present.

Board of Visitors Members
Present:  
Shelly Butler Barlow (Committee Chair)  
Ed Baine  
Sharon Brickhouse Martin  
Carrie Chenery*  
Greta Harris  
C.T. Hill  
Chris Petersen*  
Horacio Valeiras  
Preston White

Absent:  
Tish Long (Rector)  
Anna James  
Melissa Nelson  
Mehul Sanghani  
Jeff Veatch

* Two Board members participated remotely for personal reasons in accordance with Code of Virginia §2.2-3708.2(A)(1)(2).

- Carrie Chenery participated remotely while on a family vacation and was located at 9423 Old Oregon Inlet Road, Nags Head, NC.
- Chris Petersen participated remotely due to business travel from 1515 Wyandotte St, Kansas City, MO.

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members:

1. Welcome:  The Committee Chair convened the meeting and provided welcoming remarks.

2. Consent Agenda:  The Committee approved the items listed on the Consent Agenda.

   a. Approval of the Minutes from the November 8, 2021 Meeting:  The Committee approved the minutes from the November 8, 2021 meeting.

   ♦ Discusses Enterprise Risk Management topic(s).  
   * Requires full Board approval.
b. **Resolution to Approve the New River Valley Passenger Rail Station Authority Agreement:** The Committee reviewed for approval a resolution regarding the university’s participation in and authorization of the execution of an agreement establishing the New River Valley Passenger Rail Station Authority. The General Assembly recently authorized the creation of a regional passenger rail station authority and the university has been invited to join it on an equal basis with the County of Floyd, the County of Giles, the County of Montgomery, the County of Pulaski, the City of Radford, the Town of Blacksburg, the Town of Christiansburg, the Town of Pulaski, and Radford University. Joining the authority will create economic growth and development for the university. The comfort, convenience, and welfare of the university community requires the development of facilities and the creation of the New River Valley Passenger Rail Station Authority will facilitate development of such necessary facilities. The resolution commits the university to participating in the establishment of the New River Valley Passenger Rail Station Authority, authorizes that the university administration may commit resources, procure services, and enter into agreements that further the progress of the formation and operation of the authority, and authorizes the execution of an agreement establishing the respective rights and obligations of the members regarding the authority consistent with the provisions of the Code of Virginia.

The Committee recommended the resolution to the full Board for approval.

c. **Resolution to Approve Appointments to the New River Valley Passenger Rail Station Authority:** The Committee reviewed for approval a resolution to appoint Lynsay M. Belshe, Vice President for Enterprise Administrative and Business Services, and Christopher H. Kiwus, (in his role as) Vice President for Campus Planning, Infrastructure, and Facilities, and as the Virginia Tech representatives and members on the New River Valley Passenger Rail Station Authority Board of Directors.

The Committee recommended the resolution to the full Board for approval.

d. **Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority:** The Committee reviewed for approval a resolution to reappoint Christopher H. Kiwus, in his role as Vice President for Campus Planning, Infrastructure, and Facilities, as the Virginia Tech representative and member on the Montgomery Regional Solid Waste Authority Board of Directors.

The Committee recommended the resolution to the full Board for approval.

e. **Resolution to Approve the Disposition of University Building No. 0350 (Lumenhaus):** The Committee reviewed for approval a resolution authorizing the disposal of Building No. 0350. The 800 gross square foot facility is located...
within the North Academic District of main campus, at 1317 Perry Street, Blacksburg. Constructed in 2009 for the Solar Decathlon Home competition, Lumenhaus is the third such solar competition house designed and built as part of a research program begun in 2002. After competitions and touring, the house was installed adjacent to Cogwill Hall. It is beyond its useful life as an experimental and teaching structure, and is in need of maintenance and repair. The university wishes to dispose and surplus the building before it falls into further disrepair. Appurtenant elements will be removed and the site will be restored. The disposal and clearing of this site supports key elements of the Campus Master Plan. The university will obtain required reviews and approvals prior to the disposition of this structure.

The Committee recommeded the resolution to the full Board for approval.

**f. Resolution to Approve an Easement to Atmos Energy Corporation in Support of Increased Gas Lines and Gas Line Capacity on Virginia Tech’s Main Campus:** The Committee reviewed for approval a resolution authorizing the Senior Vice President and Chief Business Officer to execute an easement to Atmos Energy Corporation for the installation of a gas line in the area of Plantation Road located in the Town of Blacksburg, Montgomery County, Virginia, in support of Virginia Tech’s access to natural gas service.

The Committee recommeded the resolution to the full Board for approval.

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

3. **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. Dean Grant highlighted the progress of several capital and non-capital investments that will have significantly positive programmatic impact.

4. **Update on Parking and Transportation:** The Committee received an update from Lynsay Belshe, Vice President for Enterprise Administrative and Business Services, and Jeri Baker, Senior Director of Transportation Services, on parking and transportation. The university has more than 16,000 parking spaces, a motorist assistance program, a fleet of approximately 300 vehicles, and a robust, award-winning alternative transportation program.

5. **Overview of Facilities Accessibility Projects:** The Committee received an update from Kelly Oaks, Associate Vice President for Equity and Accessibility, and Wendy Halsey, Assistant Vice President for Facilities Operations, on accessibility improvements to campus facilities. While ADA compliance is required by law, Virginia Tech strives to proactively provide a campus environment that is free of barriers - physical, digital, and more - and is inclusive to all students, employees, and visitors. This morning, the team highlighted physical improvement projects that have been

♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
completed or are in progress. They also shared several recently installed organizational resources and services - such as an ADA campus accessibility architect and a pathways enhancement crew - that proactively inform and manage ADA projects on campus to include ramps, curb cuts, maintaining and upgrading sidewalks, and addressing physical barriers. The team reiterated that while there is a lot more work to do, they have confidence that their coordinated approach - grounded in a community of practice model with the Campus Accessibility Working Group at the core - will continue to propel efforts forward.

6. Discussion of Strategic Facilities Investment Programs: Chris Kiwus, Interim Senior Vice President and Chief Business Officer and Vice President for Campus Planning, Infrastructure, and Facilities, discussed the university’s strategic facilities investment programs. Dr. Kiwus emphasized that Virginia Tech is committed to providing a safe, inclusive, accessible, sustainable, mission-centric, partner-focused, and cost-effective infrastructure that preserves, fosters, complements, and advances the university’s distinct senses of place and service. Extensive land holdings, effectively maintained and growing facilities, and a modern inventory of equipment and systems provide a sound foundation for current programs and future initiatives. Dr. Kiwus noted that the university has installed intentional programming in the areas of general operations and maintenance, customer requested renovations, facilities renewal, maintenance reserve, and capital projects to assess, respond, and ensure the adequacy of our facilities.

7. Future Agenda Items and Closing Remarks: The Committee discussed potential topics for inclusion on future meeting agendas.

The meeting adjourned at 11:08 a.m.

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♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
Joint Open Session Meeting
The Buildings and Grounds Committee and the Finance and Resource Management Committee of the Board of Visitors of Virginia Polytechnic Institute and State University reconvened on Monday, April 4, 2022 at 11:50 a.m. in joint open session in the Solitude Room of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Road, Blacksburg). A quorum of the joint Committee was present.

Board of Visitors Members
Present:
Tish Long (Rector)
Shelly Butler Barlow (Committee Chair)
Ed Baine
Sharon Brickhouse Martin
Carrie Chenery*
Greta Harris
C.T. Hill
Anna James
Chris Petersen*
Horacio Valeiras
Preston White
* Two Board members participated remotely for personal reasons in accordance with Code of Virginia §2.2-3708.2(A)(1)(2).

Absent:
Melissa Nelson
Mehul Sanghani
Jeff Veatch

Constituent Representative(s) Present:
Paolo Fermin (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members:
President Tim Sands, Mac Babb, Callan Bartel, Lynsay Belshe, Bob Broyden, Kevin Carlson, Al Cooper, John Cusimano, Jeff Earley, Alisha Ebert, Mark Gess, Emily Gibson, Tony Haga, Kay Heidbreder, Jim Hillman, Mary-Ann Ibeziako, Robin Jones, Frances Keene, Chris Kiel, Chris Kiwus, Sharon Kurek, Jamie Lau, Rob Mann, Elizabeth McClanahan, Nancy Meacham, Scott Midkiff, Ken Miller, Bernadette Mondy, Liza Morris, Mike Mulhare, Bobbi Myers, Heidi Myers, Justin Noble, Kim O'Rourke, Charlie Phlegar, Jon Porter, Ken Smith, Dwyn Taylor, Jon Clark Teglas, Rob Viers, Tracy Vosburgh, Lisa Wilkes, and Chris Wise

1. Motion to Reconvene in Open Session

* 2. Approval of Items Discussed in Closed Session

♦ Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
* 3. **Approval of Resolution for a Long-term Lease for the Research Swing Space:**
The Committees reviewed for approval a resolution for a long-term lease for the Research Swing Space. The total project budget for the project is $20 million, and the estimated annual lease costs are $2.07 million with an estimated present value debt impact of $20 million.

The Committees recommended the Resolution for a Long-term Lease for the Research Swing Space to the full Board for approval.

* 4. **Approval of Resolution for a Long-term Lease for the Gilbert Street Project:**
The Committees reviewed for approval a resolution for a long-term lease for the Gilbert Street project. The total budget for the university’s portion of the project is $71.7 million with an estimated annual lease costs of $5.5 million and an estimated present value debt impact of $69 million.

The Committees recommended the Resolution for a Long-term Lease for the Gilbert Street Project to the full Board for approval.

* 5. **Approval of Resolution for Planning for the New Pamplin College of Business Building:**
The Committees reviewed for approval a resolution for planning the new Pamplin College of Business building. The target total project budget is $80.8 million, and the funding plan calls for entirely nongeneral fund support. The funding sources include $40.4 million of private fund raising and $40.4 million of university nongeneral funds will be allocated by the university in a combination of cash and annual support for debt service. The private fund commitments have reached the necessary milestone and cash receipts are available and sufficient to cover the $8 million costs to complete planning through working drawings.

The Committees recommended the Resolution for Planning for the New Pamplin College of Business Building to the full Board for approval.

The meeting concluded at 12:14 p.m.

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* Discusses Enterprise Risk Management topic(s).
* Requires full Board approval.
CAPITAL PROJECTS UPDATE

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS
JUNE 2022
Project Portfolio

- 19 BOV-authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~$1B
- Adds ~1.7M gross square feet (GSF) of new construction
- Renovates nearly 300K GSF of existing space
## Capital Construction Executive Summary (Progressive)

**Date Prepared:** 20 APR 2022

### 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 (SM) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022 JAN-MAR APR-JUN JUL-SEP OCT-DEC</th>
<th>CY 2023 JAN-MAR APR-JUN JUL-SEP OCT-DEC</th>
<th>CY 2024 JAN-MAR APR-JUN JUL-SEP OCT-DEC</th>
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<tbody>
<tr>
<td>Improve Kentland Facilities (Phase II) -- Various Locations</td>
<td>$12.5</td>
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<td>Creativity &amp; Innovation District Living Learning Community</td>
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<td>Holden Hall Renovations</td>
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<td>Gas-Fired Boiler at Central Steam Plant</td>
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<td>Chiller Plant Phase II</td>
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<td>Data &amp; Decision Sciences Building (D&amp;DS)</td>
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<td>Livestock &amp; Poultry Research Facilities (Ph I) - Various Locations</td>
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<td>Multi-Modal Transit Facility (Note 1)</td>
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<tr>
<td>New Upper Quad Residence Hall</td>
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<td>$32.0</td>
<td>56,650</td>
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<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
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<td>Innovation Campus - Academic Building (Note 2)</td>
<td>$302.1</td>
<td>$226.3</td>
<td>299,733</td>
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<td>HITT Hall (Note 2)</td>
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<tr>
<td>Dietrick Renovation</td>
<td>$9.1</td>
<td>$6.8</td>
<td>6,298</td>
<td>11,960</td>
<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
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<tr>
<td>Undergraduate Science Laboratory Building</td>
<td>$90.4</td>
<td>$69.5</td>
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<td>Student Wellness Improvements</td>
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<td>$46.9</td>
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<td>Life, Health, Safety, Accessibility and Code Compliance</td>
<td>$3.1</td>
<td>$2.2</td>
<td></td>
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<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
<td></td>
<td></td>
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<tr>
<td>Planning: Mitchell Hall (Replace Randolph Hall) -- Design Only</td>
<td>$11.0</td>
<td>$170.0</td>
<td>284,000</td>
<td></td>
<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
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<tr>
<td>Planning: New Business Building -- Design Only</td>
<td>$8.0</td>
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<td></td>
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<tr>
<td>Planning: Tennis Center Improvements -- Design Only</td>
<td>$0.8</td>
<td>$3.0</td>
<td>7,000</td>
<td>500</td>
<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
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<td></td>
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<tr>
<td>Global Business &amp; Analytics Complex Residence Halls</td>
<td>$84.0</td>
<td>$66.0</td>
<td>160,000</td>
<td></td>
<td>FY23 Q3 Q1 Q2 Q3 Q4 FY24 Q3 Q1 Q2 Q3 Q4 FY25 Q1 Q2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTALS:** $1,093.8  1,792,869  258,857

**Note 1:** Non-VT project

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

### Pre-Planning/Feasibility
- **Student Village**
- **Student Village**
- **Student Village**
- **GBAC LLC**
- **GBAC LLC**
- **GBAC LLC**
- **NUQ Residence Hall**
- **NUQ Residence Hall**
- **NUQ Residence Hall**

### Design
- **Mitchell Hall**
- **Hitt Hall**
- **U/G Science Labs**
- **Mitchell Hall**
- **Holden Hall**
- **Mitchell Hall**
- **U/G Science Labs**
- **Hitt Hall**
- **U/G Science Labs**

### Construction
- **Innov Campus Acad Bldg**
- **CID LLC**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**
- **Innov Campus Acad Bldg**

### Warranty/Close-Out
- **Student Village**
- **Student Village**
- **Student Village**
- **GBAC LLC**
- **GBAC LLC**
- **GBAC LLC**
- **NUQ Residence Hall**
- **NUQ Residence Hall**
- **NUQ Residence Hall**

### Legend:
- **AUG 2021 BOV**
- **NOV 2021 BOV**
- **APR 2022 BOV**
- **JUN 2022 BOV**
Legend

- **Yellow Circle**: In Design
- **Red Circle**: Under Construction
- **Green Circle**: Warranty/Complete
- **Star**: Design only

Virginia Tech Campus

Capital Project Portfolio
In Design
Projects In Design

- New Business Building*
  *A/E Procurement underway for design

- GBAC LLCs (On Hold)

- Life, Health, Safety, Accessibility

- Randolph Hall Replacement

- Student Wellness Improvements

Attachment E
Planning: New Business Building

Status:
• A/E Request For Proposals (RFP) issued

Next Actions:
• Receive proposals, short-list firms and conduct interviews
• Rank short-listed firms and begin negotiations with #1 firm

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

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
<th>Construction Budget (SM) (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>
</tr>
</thead>
<tbody>
<tr>
<td>Planning: New Business Building -- Design Only</td>
<td>$8.0</td>
<td>$80.6M</td>
<td>104,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Designer: TBD  
Builder: TBD
Status:
- Project authorized through Preliminary Design only
- Schematic Design is underway
- CMaR pre-construction contract is underway

Next Actions:
- Complete Schematic Design phase and develop cost estimates
- Transition to Preliminary Design

Designer: Perkins & Will
Builder: Skanska

CMaR
State Authorized
Status:
- Preliminary Design cost estimates in development
- Transitioning to Working Drawings phase
- Supplemental funding request currently before General Assembly for full scope of this project which also addresses other accessibility priorities on campus

Next Actions:
- Complete Working Drawings in July/August and develop final cost estimates

Designer: Quinn Evans
Builder: TBD
Status:
- Design is complete
- Current cost estimates indicate project is over budget principally due to extreme market escalation
- Strategy developed to meet program needs and provide key benefits for students through reduction of project scope and infusion of additional funding

Next Actions:
- BOV authorize implementation of strategy to advance the project
Status:
- Program originally conceived for this project is now envisioned to be included in phase 1 of the Student Life Village.

Next Actions:
- This project may be closed and its budget redirected to support the program within the Student Life Village.

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
<th>Construction Budget (SM) (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>
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</thead>
<tbody>
<tr>
<td></td>
<td>$84.0</td>
<td>$66.0</td>
<td>160,000</td>
<td></td>
<td>FY22</td>
<td>FY23</td>
<td>FY24</td>
</tr>
</tbody>
</table>

Designer: TBD

Builder: TBD

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

Design-Bid-Build
BOV Authorized
Status:
- Design complete
- Project in close-out pending completion of private fund-raising campaign and BOV construction authorization

Next Actions:
- None

Designer: Tymoff & Moss
Builder: TBD
Under Construction
Innovation Campus - Academic Building

Status:
• Construction underway for GMP-1 (early site package) for foundations/parking garage (80% complete)
• GMP-2 (building construction) contract fully executed

Next Actions:
• Anticipated completion in April 2024

Designer: SmithGroup
Builder: Whiting-Turner
**Status:**
- GMP fully executed; contractor mobilized and beginning initial sit work

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

---

**Legend:**
- Design
- Construction

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
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<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>JAN-MAR</td>
<td>APR-JUN</td>
<td>JUL-SEP</td>
</tr>
<tr>
<td>Undergraduate Science Laboratory Building</td>
<td>$90.4</td>
<td>$89.5</td>
<td>102,746</td>
<td></td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
</tr>
</tbody>
</table>

**Designer:** ZGF

**Builder:** Skanska
Status:
• Contract awarded in March for improvements to Dietrick Hall (capital project) and outdoor plaza (non-capital project)
• Project on track (15% complete)

Next Actions:
• Anticipated completion in March 2023 with phased re-openings of first floor dining venues in fall 2022

**Dietrick Renovation**  
(& Quillen Family Spirit Plaza)

**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 (SM)</th>
<th>Construction Budget (SM) (Construction contract value)</th>
<th>New Const (Gsf)</th>
<th>Renovation (Gsf)</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>JAN-MAR</td>
<td>APR-JUN</td>
<td>JUL-SEP</td>
</tr>
<tr>
<td>Dietrick Renovation</td>
<td>$9.1</td>
<td>$6.8</td>
<td>6,298</td>
<td>11,960</td>
<td>FY2 Q3</td>
<td>Q4 Q1 Q2</td>
<td>FY23 Q3</td>
</tr>
</tbody>
</table>

Designer: Hanbury  
Builder: Branch Builds
Status:
• GMP-1 (early site package) construction 10% complete
• GMP-2 (building construction) awarded and underway

Next Actions:
• Anticipated completion in March 2024

LEGEND:
- Design
- Construction
- SD - Schematic Design
- PD - Preliminary Design
- WD - Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
<th>Construction Budget (SM) (Construction contract value)</th>
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<th>Renovation (GSF)</th>
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<th>CY 2023</th>
<th>CY 2024</th>
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<tbody>
<tr>
<td>HITT Hall</td>
<td>(Note 2) $85.0</td>
<td>$65.5</td>
<td>101,000</td>
<td></td>
<td>Q3</td>
<td>Q2</td>
<td>Q3</td>
</tr>
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</table>

Designer: Cooper Cary

Builder: W M Jordan
**New Upper Quad Residence Hall**

**Status:**
- Project on track (45% complete)

**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 (SM)</th>
<th>Construction Budget (SM) (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>
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<tbody>
<tr>
<td>New Upper Quad Residence Hall</td>
<td>$42.0</td>
<td>$32.0</td>
<td>56,650</td>
<td></td>
<td>FY22</td>
<td>FY23</td>
<td>FY24</td>
</tr>
</tbody>
</table>

**Designer:** Clark - Nexsen  
**Builder:** Vannoy
Corps Leadership & Military Science Building

Next Actions:
• Anticipated completion in July 2023

Status:
• Project on track (45% complete)

Designer: Clark - Nexsen

Builder: Vannoy
Livestock & Poultry Research Facilities (Phase I)

Status:
- Construction underway on 4 of 6 bid packages:
  - Poultry: 79% complete
  - Swine: 62% complete
  - Equine: 85% complete
  - Beef: 72% complete

Next Actions:
- Supplemental construction funding for 3 hay barns and demolition currently before General Assembly

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

- FY22:
  - Q3: $25.3
  - Q4: $18.2
  - G1: 125,100

Designer: Spectrum Design
Builder: (Various)
Status:
• Project on track (70% complete)

Next Actions:
• Anticipated completion in April 2023

Designer: Moseley
Builder: Kjellstrom & Lee
Chiller Plant (Phase II)

Status:
- Project on track (99% complete)

Next Actions:
- Test and commission chilled water network in late summer 2022

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget (SM)</th>
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<td>Chiller Plant Phase II</td>
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<td>FY23</td>
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</table>
Gas-Fired Boiler at Central Steam Plant

Status:
• Project complete

Next Actions:
• Waiting DEQ issuance of final boiler permit for alternative fuel source (fuel oil)

Designer: AEI
Builder: Southern Air
**Holden Hall Renovation**

**Status:**
- Project complete; move-in underway

**Next Actions:**
- Address punch list and close out contract

---

### Project Title: Holden Hall Renovations

<table>
<thead>
<tr>
<th>LEGEND:</th>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>SD – Schematic Design</td>
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<td>PD – Preliminary Design</td>
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<tr>
<td>WD – Working Drawings</td>
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<table>
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<th>Project Title</th>
<th>Total Project Budget (SM)</th>
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<td>Holden Hall Renovations</td>
<td>$74,9</td>
<td>$58,5</td>
<td>82,905</td>
<td>20,240</td>
<td>FY22 Q3</td>
<td>FY23</td>
<td>FY24</td>
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</tbody>
</table>

**Designer:** Moseley  
**Builder:** WM Jordan

---

**CM at Risk**
**State Authorized**
Status:
• Project complete

Next Actions:
• Address punch list items and close out contract

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

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
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<th>CY 2023</th>
<th>CY 2024</th>
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</thead>
<tbody>
<tr>
<td>Creativity &amp; Innovation District Living Learning Community</td>
<td>$105.5</td>
<td>$85.5</td>
<td>252,000</td>
<td>Warranty</td>
<td>FY2 Q3 FY23 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 FY24 Q3 Q4 Q1 Q2 FY25</td>
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</table>

Designer: Hanbury
Builder: WM Jordan
**Improve Kentland Facilities (Phase II)**

**Status:**
- APR Building construction complete
- BETR Building construction complete
- MRL Building construction complete

**Next Actions:**
- APR Building: Close out contract (warranty period complete)
- BETR Building: Close-out contract (warranty period complete)
- MRL Building: Resolve manure treatment issue (design/warranty issue)

**Design-Bid-Build State Authorized**

**Designer:** Spectrum Design

**Builder(s):** APR = Snyder; MRL & BETR = CPPI
Multi-Modal Transit Facility

Status:
• Construction underway (30% complete)

Next Actions:
• Anticipated completion in April 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>
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<th>FY 2023</th>
<th>FY 2024</th>
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<tbody>
<tr>
<td>Multi-Modal Transit Facility</td>
<td>N/A</td>
<td>N/A</td>
<td>13,688</td>
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<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
</tr>
</tbody>
</table>

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

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

Site Plan
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
• CMaR’s compete for project during early stage of design
• CMaR hired 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
UPDATE ON AGRICULTURAL FACILITIES

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

David E. Gerrard, Ph.D.
Department Head, Animal and Poultry Sciences

June 7, 2022
The new Virginia Seafood AREC is occupied. Owner equipment is being installed and operations initializing.

- 4 buildings at Southwest Virginia AREC have new roofs, siding, and misc. exterior repairs complete.
- New roof and LED lighting are complete at the Beef Barn. Interior structural repairs in progress.
- Exterior repairs to seven buildings at Eastern Shore AREC have begun.
- Interior and exterior repairs and upgrades are underway on Experiment Building at Eastern Virginia AREC.
- AREC Maintenance Reserve project planning for 2022-2024 biennium nearing completion.
Project Highlight:

LIVESTOCK AND POULTRY RESEARCH FACILITIES, PHASE 1
BID PACKAGE #1
Swine Center

Cost: $5.6 million
Size: 24,325 square feet
Progress: 65% complete
Completion: August 2022
Description: Small scale swine production and research facility. Separate buildings for Classroom/locker room/admin, Boar Housing and Gestation, Farrowing and Nursery, Grower, and Finishing.
BID PACKAGE #2

Beef Nutrition and Physiology Facility; Kentland Hay Shed

<table>
<thead>
<tr>
<th>Beef Nutrition</th>
<th>Hay Shed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost: $3.89 M</td>
<td>$0.60 M</td>
</tr>
<tr>
<td>Size: 24,666 s.f.</td>
<td>8,761 s.f.</td>
</tr>
<tr>
<td>Progress: 60%</td>
<td>95%</td>
</tr>
<tr>
<td>Completion: August 2022</td>
<td>May 2022</td>
</tr>
</tbody>
</table>

Description: 20 stall cattle housing facility to conduct feed studies. Includes cattle working area, loading chutes, feed mixing room, lab space, 4 grain bins, and 4 covered bulk commodity storage bins. 3-sided hay shed is across the road for dry storage of hay bales.
**BID PACKAGE #3**

**Broiler Grow-Out Facility; Turkey Grow-Out Facility**

<table>
<thead>
<tr>
<th>Broiler Grow</th>
<th>Turkey Grow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost: $3.02 M</td>
<td>$2.73 M</td>
</tr>
<tr>
<td>Size: 11,868 s.f.</td>
<td>10,844 s.f.</td>
</tr>
<tr>
<td>Progress: 93%</td>
<td>90%</td>
</tr>
<tr>
<td>Completion: May 2022</td>
<td>May 2022</td>
</tr>
</tbody>
</table>

Description: Small-scale turkey and broiler grow-out facilities for poultry research. Up to 288 4’x4’ broiler pens and 144 4’x8’ turkey pens in 2 separate environmentally controlled rooms per building. Includes central work areas and feed storage.
BID PACKAGE #4
Equine Facility; Equipment Storage Building

<table>
<thead>
<tr>
<th></th>
<th>Equine</th>
<th>Equip. Storage</th>
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</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$2.40 M</td>
<td>$0.89 M</td>
</tr>
<tr>
<td>Size</td>
<td>13,358 s.f.</td>
<td>5,295 s.f.</td>
</tr>
<tr>
<td>Progress</td>
<td>68%</td>
<td>82%</td>
</tr>
<tr>
<td>Completion</td>
<td>July 2022</td>
<td>June 2022</td>
</tr>
</tbody>
</table>

Description: 29 stall horse barn with tack rooms, wash stalls, grooming stalls, feed storage, bedding storage, and manure storage. Building includes locker room facilities, office, vet room and laundry. Equipment storage building includes 1 heated and 3 unheated bays for equipment storage and maintenance.
TECHNOLOGY AND CONNECTIVITY
TECHNOLOGY AND CONNECTIVITY

- RTK units delivered/installed at 3 ARECs. Remaining 3 installs slated for June/July.
- Field level wireless trial at Eastern Va. AREC scheduled to begin in June/July.
- Dedicated dark fiber activation ordered for Kentland Farm - boosts connectivity to as much as 10 Gbps.
- Collaboration with DoIT to build a 4G/5G/CBRS testbed at Kentland Farm.
THANK YOU
**CAPITAL PROJECTS**

**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</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 (APRF): 4,105 SF barn at Vet Med for palpation and breeding instruction. Grain Storage and Teaching Facility (GSTF): 3,000 SF classroom building and 1,300 SF demonstration area at livestock center for Plantation Road.</td>
<td>$12,443,000</td>
<td>Capital Outlay</td>
<td>Spectrum, SNP</td>
<td>Fall 2020</td>
<td>All projects have reached substantial completion and have certificate of occupancy. Minor corrective work is ongoing and owner furnished equipment installation is in progress.</td>
</tr>
<tr>
<td>New Virginia Seafood AREC Building</td>
<td>2,149 SF 2-story building to replace existing aging and structurally unsound facility in Hampton, Virginia with state-of-the-art aquarium research and extension facilities. Facility owned and developed by Virginia Tech Foundation.</td>
<td>$9,360,000</td>
<td>Various</td>
<td>RHM / E.T. Gresham</td>
<td>April 2022</td>
<td>Project is substantially complete. Move in is in progress. Owner equipment is being installed and operations are being started.</td>
</tr>
</tbody>
</table>

**Projects in Design**

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROJECT INITIATION / PLANNING STAGE</strong></td>
<td></td>
</tr>
<tr>
<td>New Virginia Seafood AREC Building</td>
<td>2,149 SF 2-story building to replace existing aging and structurally unsound facility in Hampton, Virginia with state-of-the-art aquarium research and extension facilities. Facility owned and developed by Virginia Tech Foundation.</td>
</tr>
</tbody>
</table>

**NON-CAPITAL PROJECTS**

**Projects Completed Since Last Report**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Description</th>
<th>Estimated Total Project Cost</th>
<th>Fund Source</th>
<th>Project Team</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Projects (&lt;$25,000 each)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Virginia AREC Lighting Upgrades</td>
<td>LED lighting upgrade in Main Office and lab building and Scott Farm Building</td>
<td>$18,000</td>
<td>CALS / VAES</td>
<td>Multiple</td>
<td>Complete</td>
</tr>
<tr>
<td>Southwestern Virginia AREC Tobacco Barn A1 Demolition</td>
<td>Demolition of existing barn no longer needed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington Street Greenhouse Complex Renovations</td>
<td>Repairs and upgrades to modernize aging controlled growth environments.</td>
<td>$180,000</td>
<td>CALS / VAES</td>
<td>VT Facilities Engineering, Bell Electric, VT HVAC Shop</td>
<td>Spring 2022</td>
</tr>
<tr>
<td>Southwest Virginia AREC - Exterior Building Repairs</td>
<td>Repair roof, siding and door damage on Tobacco Barns 1 (0749) and 2 (0747), Cattle Barn 4 (0742) and Veterinary/Machinery Shop (0746).</td>
<td>$183,000</td>
<td>Maintenance Reserve, Lily Construction</td>
<td></td>
<td>Spring 2022</td>
</tr>
</tbody>
</table>
## College of Agriculture Life Sciences (CALS) Projects Status Report

### BUILDINGS AND GROUNDS COMMITTEE
June 7, 2022

### PROJECTS IN CONSTRUCTION

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
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<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alphin-Stuart Arena Roof Drain repair</td>
<td>Repair failing roof drains.</td>
<td>T&amp;D</td>
<td>Maintenance Reserve</td>
<td>Spring 2022</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Minor Projects ($500,000 and below)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auburn H. Smith Jr. AREC New Hoophouse Construction</td>
<td>Construct a 20' x 48' gable high tunnel hoophouse for horticultural research projects.</td>
<td>$66,000</td>
<td>CALS / VAES</td>
<td>Multiple</td>
<td>Ongoing</td>
<td>In Progress</td>
</tr>
<tr>
<td>Middleburg AREC Hot Walker Installation</td>
<td>One new electrical system and a new RTK tower antenna.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middleburg AREC Laundry Hookup</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auburn H. Smith Jr. AREC Greenhouse Controls Upgrade</td>
<td>Replace aging control systems.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AREC Exterior Signage Upgrade</td>
<td>Installation of 2 new exterior signs at each AREC with refreshed design to match current branding.</td>
<td>$81,000</td>
<td>CALS / VAES</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beef Barn Repairs</td>
<td>Exterior and interior demolition followed by the installation of new roofing, hop loft flooring, doors, windows, and lighting. This work was originally installed in UNF Phase I, but removed due to scope concerns.</td>
<td>$1,964,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Construction in progress. Roofing and lighting replacement complete. Structural repairs underway.</td>
<td></td>
</tr>
<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>$105,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Construction is underway.</td>
<td></td>
</tr>
<tr>
<td>Eastern Shore AREC - Exterior Building Repairs</td>
<td>Multiple buildings are in need of exterior repairs. Head House (1216) and Shop Building (1211) is in need of structural repairs to walls and rippling. Implement Shed (1216), Sweet Potato Storage (1217), Produce Loading (1210), and Inventory (1206) need exterior waterproofing, door repair, painting repairs and gutters.</td>
<td>$196,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Construction is underway.</td>
<td></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 1.5-inch water line.</td>
<td>$40,080</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Construction is underway.</td>
<td></td>
</tr>
</tbody>
</table>

### PROJECTS IN DESIGN

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
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<tr>
<td>Minor Projects ($500,000 and below)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tidewater AREC Powder Storage Shed</td>
<td>65 square foot prefabricated structure for solid storage of harvested peanuts. Power and data connections for new GPS and Wi-Fi tower.</td>
<td>$57,000</td>
<td>CALS / VAES</td>
<td>Multiple</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>Eastern Virginia AREC RTK Tower Installation</td>
<td>Tidewater AREC RTK Tower Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southwest AREC Smart Feeder-Power Connection</td>
<td>Power and data connections for new GPS and Wi-Fi tower. Power connection for new smart feeding equipment in Cattle Barn.</td>
<td>$75,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Design is in progress.</td>
<td></td>
</tr>
<tr>
<td>Southern Piedmont AREC - Packhouse Restroom Repairs</td>
<td>Packhouse (BBRT) restrooms are in need of plumbing repairs and upgrade to be reconfigured for ADA access. Packhouse roof is leaking and needs repair.</td>
<td>$122,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tidewater AREC Peanut Storage Shed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Virginia AREC RTK Tower Installation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Southwest AREC Smart Feeder-Power Connection</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
### Project Description

**Urban Horticulture Center LED Lighting Retrofit**
- Replace failing fixtures to restore operational effectiveness and realize energy savings (2 buildings).
- Estimated Total: TBD
- Fund Source: Energy Management
- Project Initiation / Planning Stage: Contractor quote received. Funding options being evaluated.

**Kentland Farm Dairy Complex LED Lighting Retrofit**
- Replace failing fixtures to restore operational effectiveness and realize energy savings (5 buildings).
- Estimated Total: TBD
- Fund Source: Energy Management / CALS
- Project Initiation / Planning Stage: Capital and operational costs for project under review internally.

**Heth Farm Shed and Silo Demolition**
- Demolish two structures that are currently unsafe and operationally unnecessary.
- Estimated Total: TBD
- Fund Source: Coker Composting & Consulting
- Project Initiation / Planning Stage: Design is in progress.

**Primos Fork Quarantine Lab Room B Renovation**
- Minor modifications to improve workflow and safety within Entomology Quarantine Facility at Primos Fork Research Center.
- Estimated Total: TBD
- Fund Source: Gibson Engineering
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Primos Fork Quarantine Lab Emergency Generator**
- Installation of new backup generator for operational reliability at Entomology Quarantine Facility at Primos Fork Research Center.
- Estimated Total: TBD
- Fund Source: Coker Composting & Consulting
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Southern Piedmont AREC - Pavement repairs**
- Existing main parking lots (3) and primary internal roadways are deteriorating and in need of repair.
- Estimated Total: TBD
- Fund Source:维护 Reserve
- Project Initiation / Planning Stage: Scope review with University Building Official (UBO) is necessary to resolve code requirements and funding eligibility. Project deferred to 2023.

**Judging Pavilion Repairs**
- Interior and exterior demolition followed by installation of new flooring, doors, windows, HVAC systems, lighting, a covered walkway and exterior paint.
- Estimated Total: TBD
- Fund Source: Maintenance Reserve
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Campbell Arena Repairs**
- 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.
- Estimated Total: TBD
- Fund Source: Maintenance Reserve, Coker Composting & Consulting
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Prices Fork Quarantine Lab Room B Renovation**
- Minor modifications to improve workflow and safety within Entomology Quarantine Facility at Prices Fork Research Center.
- Estimated Total: TBD
- Fund Source: Gibson Engineering
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Prices Fork Quarantine Lab Emergency Generator**
- Installation of new backup generator for operational reliability at Entomology Quarantine Facility at Prices Fork Research Center.
- Estimated Total: TBD
- Fund Source: Coker Composting & Consulting
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**Compost Facility (to support main campus & surrounding farms)**
- 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 Services, 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.
- Estimated Total: $1,823,000
- Fund Source: Color Consulting & Consulting
- Project Initiation / Planning Stage: Contractor quoted. Funding options being evaluated.

**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 LPRF Phase 1, but removed due to scope concerns.
- Estimated Total: TBD
- Fund Source: Maintenance Reserve
- Project Initiation / Planning Stage: Scope and budget development.

**Moore Farm Barn/CECS Repairs**
- This highly visible and prominent barn is for many purposes such as lambing of sheep, loafing 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.
- Estimated Total: TBD
- Fund Source: Maintenance Reserve
- Project Initiation / Planning Stage: Scope and budget development.
<table>
<thead>
<tr>
<th>PROJECT NAME</th>
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<th>ESTIMATED TOTAL PROJECT COST</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Moore Farm Shed OSGB Repairs</td>
<td>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 relocating 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.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Alson H. Smith AREC - Repair paving and parking</td>
<td>Existing asphalt parking lot and driveways are deteriorating and in need of repairing.</td>
<td>$56,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction planned in FY 2023.</td>
</tr>
<tr>
<td>Middleburg AREC - Equipment Repairs</td>
<td>Existing equipment buildings are in need of repair/replacement due to advanced age: Annex (0812), Pratwee Barn (0807), Milking Barn and Milk House (0800), Loafing Barn (0810), Clinics/Assets Building (0812), Stable (0814). 8 Rainbow shade (0795) are deteriorating and in need of repair or replacement.</td>
<td>$130,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction planned in FY 2022.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Repair/Replace Sheep Barn</td>
<td>Sheep Barn (0848) has rotten posts at ground level and leaking roof. The building should be evaluated for repair or replacement.</td>
<td>$76,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Renovate Carriage House</td>
<td>Renovate Carriage House to add two single-user public restrooms and welcome center area for visitors to the McCormick Farm.</td>
<td>TBD</td>
<td>CALS / VAES</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Study will be necessary to address development within historic property for Department of Historic Resources.</td>
</tr>
<tr>
<td>Southern Piedmont AREC - Building Repairs</td>
<td>Rep/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (0801, 0818, 0824, 0836).</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction planned in FY 2022.</td>
</tr>
<tr>
<td>Smithfield Equine Complex</td>
<td>Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add washrooms, restrooms, announcer stand, fencing, quarantine facility.</td>
<td>TBD</td>
<td>Private</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Smithfield Equine Classroom Renovations, Phase 2</td>
<td>Completion of building envelope repairs, restroom repairs, accessibility improvements.</td>
<td>TBD</td>
<td>Maintenance Reserve, CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
</tbody>
</table>

INFORMATION TECHNOLOGY (IT) EVALUATION & PROJECTS

Updates through May 31, 2022. New information is in bold.

PROJECTS COMPLETED

- AREC A/V Upgrades, Phase 1
  - Installation of new audio and video equipment for ARECs to provide enhanced conferencing capability in meeting rooms. Phase 1 includes Alson H. Smith, Eastern Shore, Hampton Roads, Southern Piedmont and Tidewater ARECs.
  - Cost: $34,000
  - Fund Source: CALS / VAES
  - Team: CALS IT
  - Completion Date: Fall 2019
  - Phase 1 (five ARECs) is complete. Scope and schedule for Phase 2 project (remaining ARECs) to be evaluated upon completion of Phase 1.

- AREC A/V Upgrades, Phase 2
  - Installation of new audio and video equipment for ARECs to provide enhanced conferencing capability in larger conference rooms. Phase 2 includes Alson H. Smith, Hampton Roads, Southern Piedmont and Tidewater ARECs.
  - Cost: $230,000
  - Fund Source: CALS / VAES
  - Team: CALS IT
  - Completion Date: Spring 2022
  - These four installations are complete.
### Projects in Progress

#### ARECs
- **Bandwidth and Internet Connectivity**
  - Kentland Farm has adequate 200 Mb service. Moore Farm and Urban Horticulture Center share a 50 Mb cable service which is currently adequate. The CESD Research Farm (Agrienystry Farm) also has a 50 Mb cable connection. Prices Fork Research Center has a 50 Mb fiber connection. Tennefly Farm cable service is being upgraded from 50 Mb to 200 Mb during UFR phase 1, no additional cost. UFR projects are needed to provide sufficient bandwidth for existing video-based research and future initiatives, after UFR phase 1 construction. Traffic center is currently using a cellular hotspot for internet service. Providing standard service requires excessive installation cost. Alternative service providers are being sought. No complaints have been received about service to facilities in the Livestock Center along Plantation Road, but service levels and coverage is being reviewed. A dark fiber connection to campus is being considered which would both lower the current monthly cost and increase the Kentland bandwidth to nearly 10 Gbps in being explored.

- **AREC Voice-Over Internet Protocol (VOIP) Conversion**
  - Conversion of legacy voice telephone system at all ARECs to unified VOIP system matching voice service on campus.

- **Network Equipment Upgrades and Expansion**
  - A project to upgrade routers and switches as well as expand in-building wireless and some external wireless has been started. This project will implement LAN gear as well as enhance wireless connectivity within AREC buildings and expand wi-fi and the AREC network to additional buildings and some exterior areas.

- **Real Time Kinematic (RTK)**
  - A project to install RTK systems at select ARECs has been started. RTK enables the ARECs to implement precision agriculture research practices. RTK increases the accuracy over and above standard GPS from an accuracy of 2-4 meters to ~1 centimeter. Installation is planned for Spring 2022.

- **Eastern Virginia AREC Field-level Wireless (a SmartFarm Project)**
  - Installation of new technology, similar to Wi-Fi but with better exterior coverage and security management, in fields at Eastern Virginia AREC to study the effectiveness of this equipment for supporting data-intensive agricultural, plant-based research as well as providing ready access to the internet and data network.

#### Virginia Tech
- **SmartFarm Projects**
  - A project has been initiated by faculty in the Department of Animal and Poultry Sciences, in partnership with CALS IT and the Division of IT, to potentially install new technology, similar to Wi-Fi but with better exterior coverage and security management, in fields at Shenandoah Valley and Middleburg ARECs. The proposal is to study the effectiveness of this equipment for supporting data-intensive agricultural, animal-based research. Project has expanded to include faculty from the School of Plant and Environmental Sciences, and now includes work at Kentland Farm. An additional project in cooperation with DoIT, CALS, and COE would create a 5G/CBRS testbed at Kentland Farm.

#### Fund Source
- **CALS IT**
- **Various**
- **TBD**

#### Contract Completion Date
- **Ongoing**
- **Summer 2022**
- **TBD**

#### Funding Needs and Sources
- Alternative service providers are being sought for turfgrass center and local tenant houses. Reviewing service levels and needs at livestock facilities on Plantation Road. Ordered and partially installed fiber to extend internet service to employee housing at Eastern Shore, Hampton Roads, Shenandoah Valley and Middleburg. Service to the Turfgrass Center is now tentatively scheduled for mid-July.

#### Estimated Total/Project Cost
- **$245,000 Annually**
- **$75,000**
- **$5,900**

#### Project Teams
- **CALS IT**
- **Division of IT**
- **TBD**

#### Project Status
- **CALS/VAES**
- **Various**
- **TBD**

#### Date
- **June 7, 2022**
UNIVERSITY BUILDING OFFICIAL
BOARD OF VISITORS
BUILDINGS AND GROUNDS COMMITTEE
JUNE 7, 2022
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 is responsible for ensuring the campus environment is ADA-compliant, including both building interiors and exteriors:

- All Virginia Tech facilities across the state
- New buildings, renovations, minor alterations
- Stadiums, residence halls, dining halls, and academic buildings
- Classrooms, labs, maker spaces
- Restrooms: Toilets, showers, sinks
- Doors, ramps, stair rails, doors, thresholds
- Sidewalks, outdoor amphitheaters, temporary concert venues
UBO remains on the frontlines working to ensure designers and clients embrace accessibility requirements and university guidelines.
Electronic improvements have led to improved efficiencies in permit review:

- Non Capital Average Plan Review: 2 days turnaround
- Capital Project Average Plan Review: 6 days turnaround
CUSTOMER SERVICE EFFICIENCIES

The old way....

The new way....
TOTAL COMPLETED PLAN REVIEWS: 1,778

COMPLETED PLAN REVIEWS BY MONTH

Reviews: April 1, 2021 – March 31, 2022
TOTAL NUMBER OF PERMITS: 1,037

Permits: April 1, 2021 – March 31, 2022
INSPECTIONS

TOTAL NUMBER OF INSPECTIONS: 2,599

Inspections: April 1, 2021 – March 31, 2022
• Average 10.5 inspections each day.

• Meeting with design teams and contractors on-site to address issues that arise.

• Virtual inspection process for remote locations save time and money.
THANK YOU!

Office of the University Building Official
540-231-4678
vtubo-g@vt.edu
OVERVIEW OF THE FACILITIES RENOVATIONS PROGRAM

PRESENTATION FOR THE BOARD OF VISITORS

WENDY HALSEY, MAURP, MBA, PE
ASSISTANT VICE PRESIDENT FOR FACILITIES OPERATIONS

JOY MANNING
DIRECTOR OF RENOVATIONS

JUNE 7, 2022
DISCUSSION POINTS

Connection to Strategic Facilities Investment
Role of the Renovations Program
Sample of Recent Projects
Project Management Transformation
STRATEGIC FACILITIES INVESTMENT

- **Operations and Maintenance Program**
  - Housekeeping, grounds care, preventative maintenance, service agreements, and routine repairs

- **Customer Requested Renovation Program**
  - Program enhancements and improvements requested and funded by campus departments less than $3 million

- **Facilities Renewal Program**
  - Program enhancements and improvements funded centrally less than $3 million

- **Maintenance Reserve Program**
  - Repairs greater than $25,000 and less than $3 million

- **Capital Project Program**
  - Renovations/replacements greater than $3 million

---

Facility Condition Monitoring and Assessment Program
RENOVATIONS PROGRAM

• Facility improvements with a total project cost below $3M or involve less than 5,000 gross square feet of new space

• The Renovations Team executes $16M to $20M in projects each year
CLASSE R O OM IMPROVEMENTS
LITTON REAVES HALL

Project Summary
Renovation of the existing instructional auditorium in Litton Reaves Hall.

Project Budget
$1,685,610

Project Highlights
The project was funded by both central funds and maintenance reserve funds. The scope of work was a complete refresh of the finishes throughout the space as well as lighting and seating improvements. In addition, the project addressed impacts of the aging foundation.

Project Status
Completed
ROOF REPLACEMENT AND ATRIUM REPAIRS
PAMPLIN HALL

Project Summary
Full replacement of the roof and repairs to address leaks with the glass atrium system.

Project Budget
$508,000

Project Highlights
The project included a replacement of the existing ballasted roof with a new roofing system and removal/replacement of all glazing panels within the glass atrium system to address leaks.

Project Status
Completed
NEW CONSTRUCTION
BASEBALL PITCHING LAB

Project Summary
Provide a lab for the Department of Intercollegiate Athletics to study and train pitching performance.

Project Budget
$1,827,096

Project Highlights
The new building is a single-story, 20-foot high, 2,043 gross square foot facility for indoor pitching practice. The new building finishes include precast concrete panels, Hokie Stone, aluminum framed windows and overhead doors, in line with sporting facilities architectural styles and material of the Athletics and Recreation District.

Project Status
Under Construction
ACROSS THE COMMONWEALTH

Roanoke Riverside 4 MRI Shielding Installation

Shenandoah Valley Cattle Feed Shed

Equine Medical Center New Treatment Floor

Southwest AREC Barns

Hampton Roads Bulkhead Replacement
PROJECT MANAGEMENT TRANSFORMATION

Renovations project management has transitioned from an outsourced model to an in-house project management model.

Benefits

- Incentivized cost savings for the customers.
- Increased responsiveness, consistency, transparency, and adaptability to all campus constituents.
- Incentivized to be customer centric (schedule, scope, etc.).
- Stabilized workforce and heightened ownership of the process.
- The 10.5% management fee was reduced to 7.5% with goal of future reductions by moving in house staff to education & general funding.
QUESTIONS?