

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-foot 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.

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.

* Requires Full Board Approval

Discusses Enterprise Risk Management Topic(s)

+ Discusses Strategic Investment Priorities Topic(s)

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.*

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Tour of the Data and Decision Sciences Building	Dwyn Taylor Kevin Pitts Julie Ross Robin Russell
2. Tour of the Renovated Quillen Spirit Plaza and Dietrick Hall	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.*

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
3. Consent Agenda <ul style="list-style-type: none"> a. Approval of the Minutes from the March 2023 Meeting b. Acceptance of the Quarterly Capital Project Status Report 	Committee Chair
* 4. Resolution to Authorize the Demolition of University Buildings 0133 (Randolph Hall), 0270C (Randolph Annex), and Partial Demolition 0133C (Hancock Hall)	Liza Morris
# 5. Annual Report of the University Building Official	Chris Kiel
# + 6. Update on Agricultural Facilities	Alan Grant
7. Future Agenda Items and Closing Remarks	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

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Motion to Begin Joint Closed Session	Greta Harris
* 2. Approval of Resolution for the Acquisition of Real Property	Ken Miller Chris Kiwus Bob Broyden

Joint Open

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Motion to Reconvene in Joint Open Session	Greta Harris
2. Approval of Items Discussed in Joint Closed Session	Ed Baine Shelley Butler Barlow
* 3. Approval of Resolution for the Football Locker Room Renovation Project	Ken Miller Chris Kiwus Bob Broyden
* 4. Approval of Resolution for Student Life Village, Phase I Planning Authorization	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-foot 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.

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

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025							
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC				
					FY22		FY23		FY24		FY25		FY26		FY22		FY23		FY24		FY25		FY26	
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Improve Kentland Facilities (Phase II) -- Various Locations	\$12.5	\$10.1	28,403		WARRANTY																			
Holden Hall Renovations	\$74.9	\$58.5	82,905	20,240	WARRANTY																			
Chiller Plant Phase II	\$42.9	\$32.7	N/A				WARRANTY																	
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960						WARRANTY														
Data & Decision Sciences Building (D&DS)	\$79.0	\$58.9	120,000							WARRANTY														
Livestock & Poultry Research Facilities (Ph I) -- Various Locations	\$25.3	\$18.2	129,100																					
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449																				
New Upper Quad Residence Hall	\$42.0	\$32.0	56,650																					
Multi-Modal Transit Facility (Note 1)	N/A	N/A	13,606																					
HITT Hall (Note 2)	\$85.0	\$65.5	101,000																					
Innovation Campus - Academic Building (Note 2)	\$302.1	\$226.3	299,733																					
Undergraduate Science Laboratory Building	\$90.4	\$69.5	102,746																					
Student Wellness Improvements	\$70.0	\$56.3		204,000																				
Building Envelope Improvements (Note 3)	\$47.2	\$41.9	N/A																					
Life, Health, Safety, Accessibility & Code Compliance (Note 4)	\$10.4	\$3.9				WD			SD			PD	WD											
Mitchell Hall (Replace Randolph Hall) (Note 2)	\$248.0	\$185.0	284,000				PD													Note 5				
Planning: New Business Building -- <i>Design Only</i>	\$8.0	\$60.6M	104,000					SD				PD		WD										
Slusher Hall Repairs	\$7.5	\$5.6		38,000																				
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

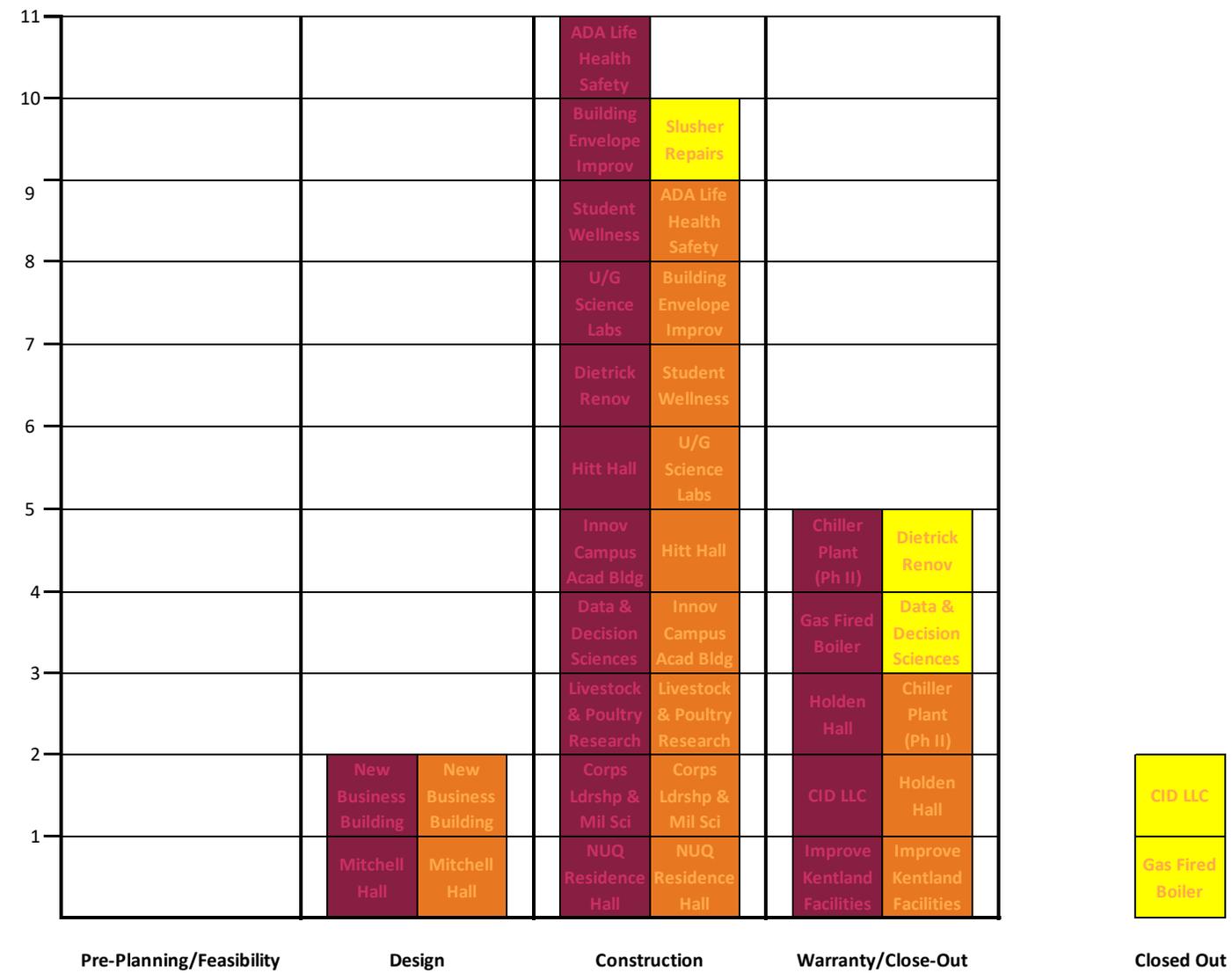
Note 5: Estimated construction completion of Mitchell Hall is DEC 2027

Project Portfolio Distribution

State/BOV Authorized Projects

Legend:

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

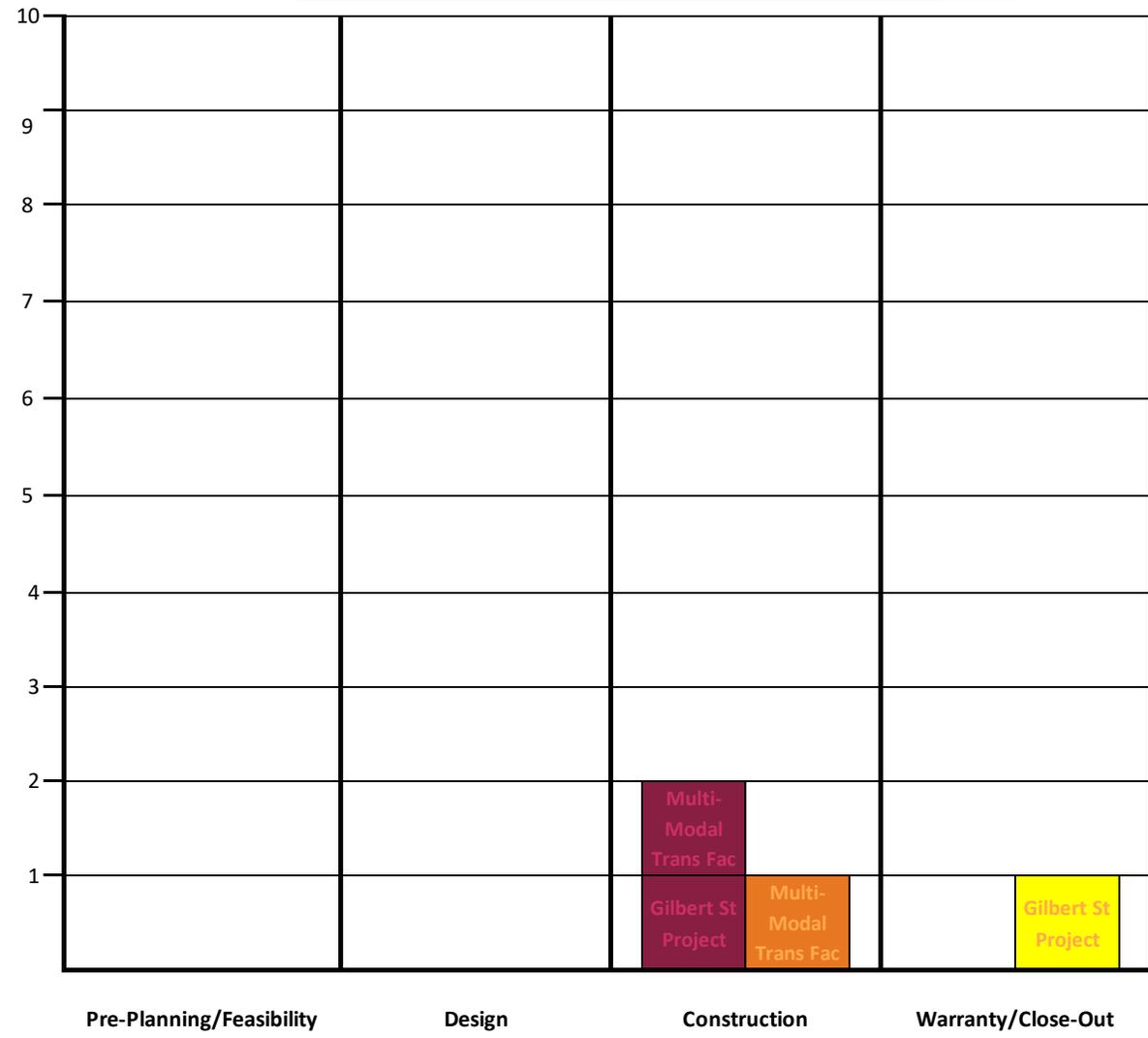


Project Portfolio Distribution

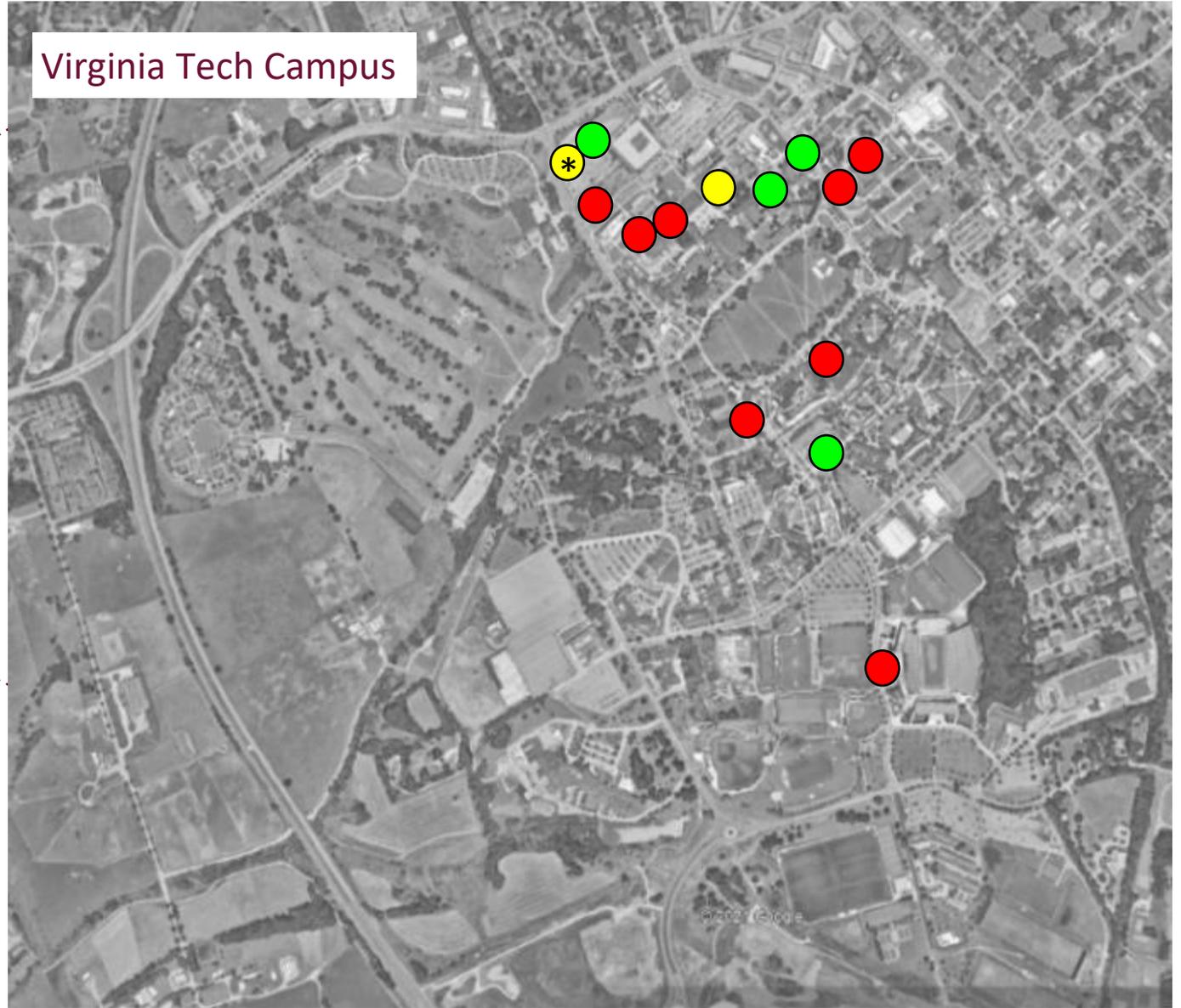
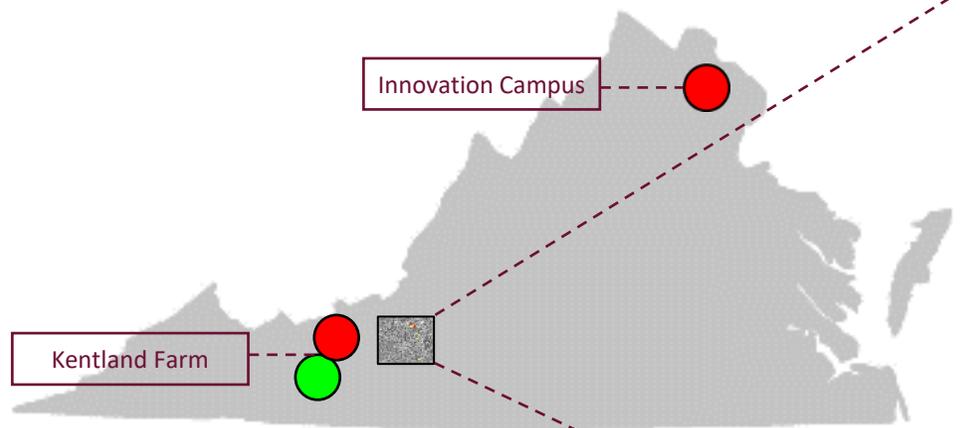
Supported/Non-VT Projects

Legend:

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



Capital Project Portfolio



Legend

- = In Design
- = Under Construction
- = Warranty/Complete
- = *Design only*

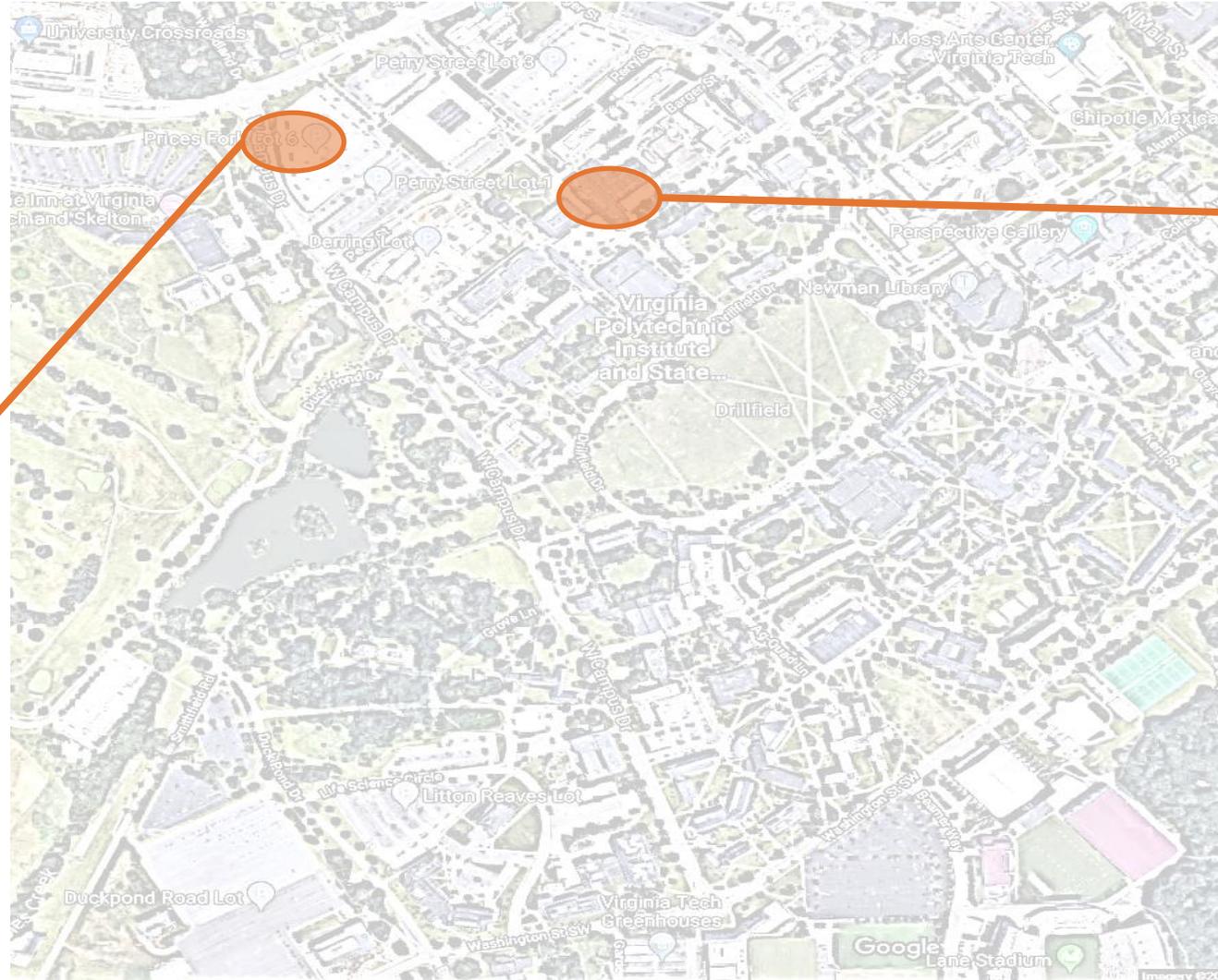
In Design



Projects In Design



New Business Building



Mitchell Hall



Mitchell Hall (Replace Randolph Hall)

CMaR
State Authorized



Status:

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

Next Actions:

- Complete Working Drawings and begin GMP development

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

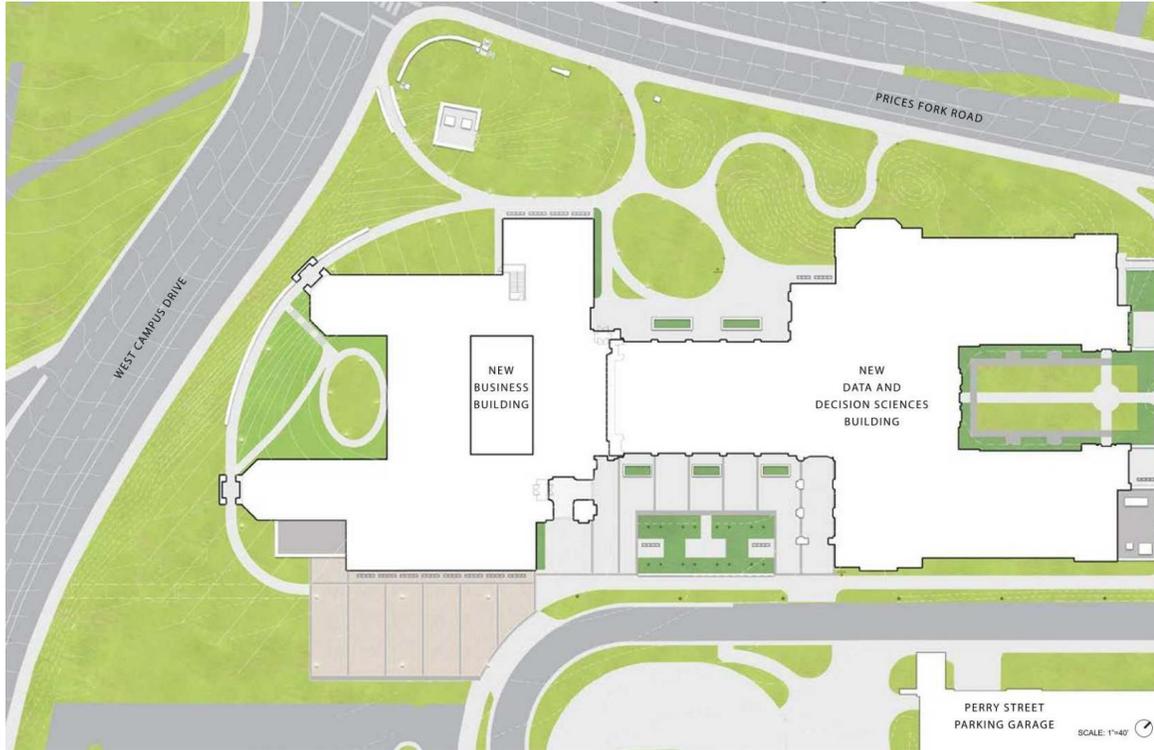
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Mitchell Hall (Replace Randolph Hall)	\$248.0	\$185.0	284,000				PD				WD									

Designer: Perkins & Will

Builder: Skanska

Planning: New Business Building

CMaR
BOV Authorized



Status:

- Schematic Design complete
- Preliminary Design underway
- CMaR contract awarded

Next Actions:

- Complete Preliminary Design phase

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
Planning: New Business Building -- <i>Design Only</i>	\$8.0	\$60.6M	104,000					SD			PD		WD							
TOTALS	\$1,312.5		1,625,869	258,357																

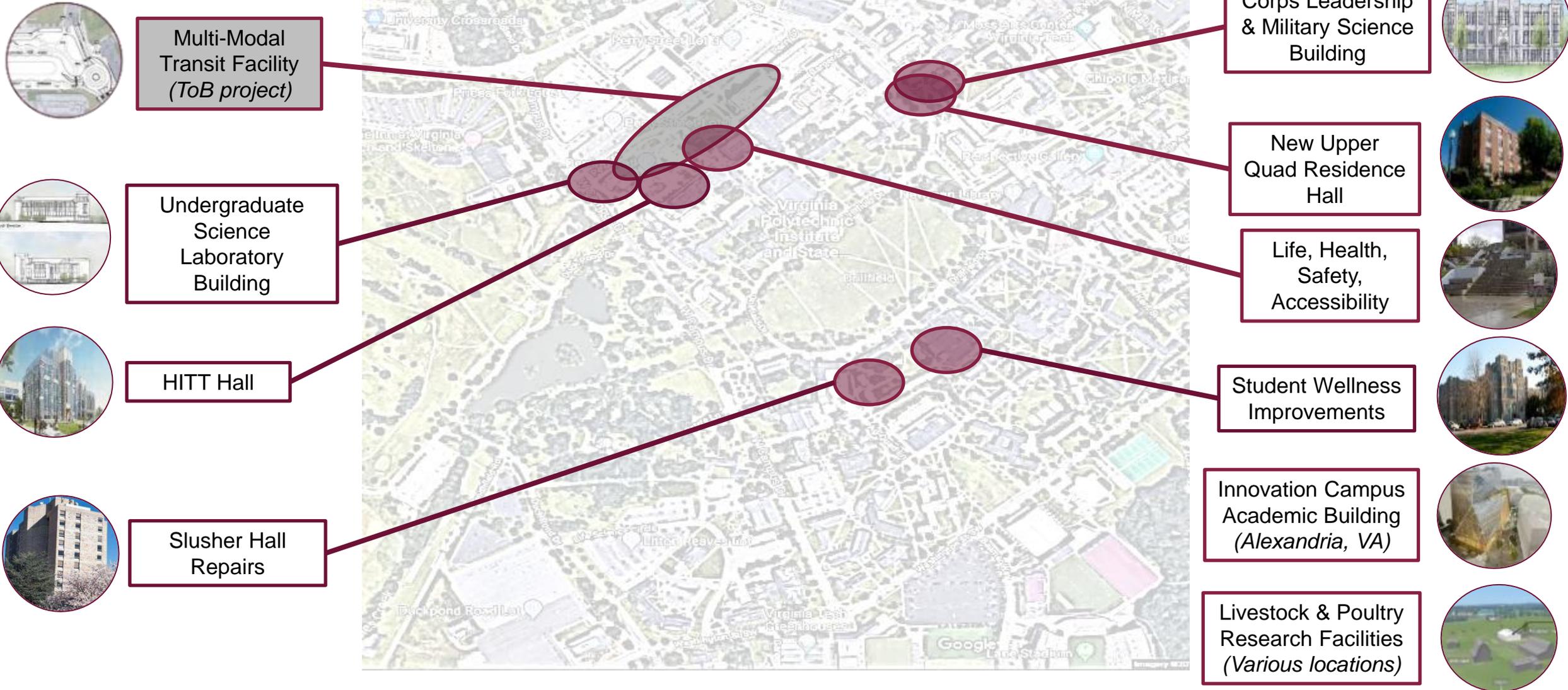
Designer: Moseley

Builder: Kjellstrom & Lee

Under Construction



Active Construction Projects



Innovation Campus-Academic Building

CM at Risk
State
Authorized



Status:

- Construction approx 58% complete

Next Actions:

- Anticipated completion in summer 2024

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
					Q3	Q4	Q1	Q2												
Innovation Campus - Academic Building	(Note 2)	\$302.1	\$226.3	299,733																

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

Slusher Hall Repairs

**Emergency Procurement
 BOV Authorized**



Status:

- Construction contract awarded and under way

Next Actions:

- Anticipated completion in August 2023

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Slusher Hall Repairs	\$7.5	\$5.6		38,000																

Building Envelope Improvements

**Design-Bid-Build
BOV Authorized**



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

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
					Q3	Q4	Q1	Q2												
Building Envelope Improvements	\$47.2	\$41.9	N/A																	

Designer: Quinn Evans

Builder: WM Jordan

Undergraduate Science Laboratory Building

CM at Risk
State Authorized



Status:

- Construction approx 30% complete

Next Actions:

- Anticipated completion in June 2024

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025							
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC																
					FY22		FY23		FY24		FY25		FY26		FY22		FY23		FY24		FY25		FY26	
					Q3	Q4	Q1	Q2																
Undergraduate Science Laboratory Building	\$90.4	\$69.5	102,746																					

Designer: ZGF

Builder: Skanska

Hitt Hall

**CM at Risk
 BOV Authorized**



Status:

- Construction approx 33% complete

Next Actions:

- Anticipated completion in March 2024

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025					
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC														
					FY22		FY23		FY24		FY25		FY26									
					Q3	Q4	Q1	Q2														
HITT Hall	(Note 2)	\$85.0	\$65.5	101,000																		

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

Designer: Cooper Cary

Builder: W M Jordan

Corps Leadership & Military Science Building

**CM at Risk
 BOV Authorized**



Status:

- Construction approx 95% complete

Next Actions:

- Anticipated completion in July 2023

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
					Q3	Q4	Q1	Q2												
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449																

Designer: Clark - Nexsen

Builder: Vannoy

New Upper Quad Residence Hall

**CM at Risk
 BOV Authorized**



Status:

- Construction approx 85% complete

Next Actions:

- Anticipated completion in August 2023

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
New Upper Quad Residence Hall	\$42.0	\$32.0	56,650																	

Designer: Clark - Nexsen

Builder: Vannoy

Data & Decision Sciences Building

CM at Risk
State Authorized

Complete



Status:

- Construction complete on budget and on time

Next Actions:

- Close out project

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26		FY26		FY26			
					Q3	Q4	Q1	Q2												
Data & Decision Sciences Building (D&DS)	\$79.0	\$58.9	120,000																	

Designer: Moseley

Builder: Kjellstrom & Lee

Dietrick Renovation (& Quillen Spirit Plaza)

**Design-Bid-Build
BOV Authorized**



Status:

- Construction complete on budget and on time

Next Actions:

- Close out project

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025				
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC													
					FY22		FY23		FY24		FY25		FY26								
					Q3	Q4	Q1	Q2													
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960																	

Designer: Hanbury

Builder: Branch Builds

Livestock & Poultry Research Facilities (Phase I)

**Design-Bid-Build
 State Authorized**



Poultry Facility



Swine Facility

Complete



Equine Facility



Beef Facility

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
Livestock & Poultry Research Facilities (Ph I) -- Various Locations	\$25.3	\$18.2	129,100																	

Designer: Spectrum Design

Builder: (Various)

Holden Hall Renovation

**CM at Risk
 State Authorized**

Complete



Status:

- Warranty period complete

Next Actions:

- Close out project

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
					FY22		FY23		FY24		FY25		FY26							
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Holden Hall Renovations	\$74.9	\$58.5	82,905	20,240	WARRANTY															

Designer: Moseley

Builder: WM Jordan

Improve Kentland Facilities (Phase II)

**Design-Bid-Build
 State Authorized**



Status:

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
					FY22		FY23		FY24		FY25		FY26							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Improve Kentland Facilities (Phase II) -- Various Locations	\$12.5	\$10.1	28,403		WARRANTY															

Designer: Spectrum Design

Builder(s): APR = Snyder; MRL & BETR = CPPI

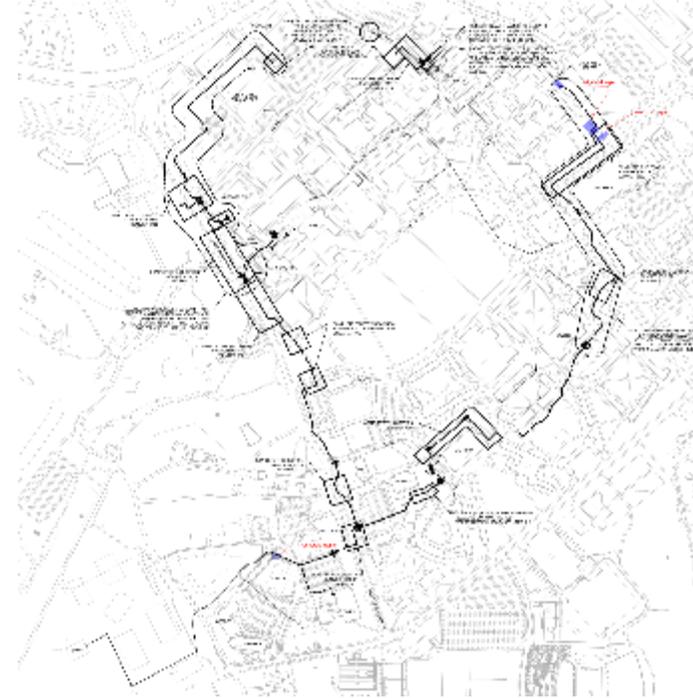
Chiller Plant (Phase II)

Complete



Status:

- Project complete



Next Actions:

- Close out project

Design-Bid-Build
State Authorized

LEGEND:	Design	Construction	SD = Schematic Design	PD = Preliminary Design	WD = Working Drawings
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Project Title	Total Project Budget (\$M)	Construction Budget (\$M) (Construction contract value)	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24				FY25				FY26			
					Q3	Q4	Q1	Q2												
Chiller Plant Phase II	\$42.9	\$32.7	N/A																	

Designer: AEI

Builder: Falconer 27

Multi-Modal Transit Facility

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



Status:

- Construction underway (approx 60% complete)

Next Actions:

- Anticipated completion in fall 2023

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

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2022				CY 2023				CY 2024				CY 2025			
					JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
					FY22		FY23		FY24		FY25		FY26							
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Multi-Modal Transit Facility	(Note 1)	N/A	N/A	13,606																

Note 1: Non-VT 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

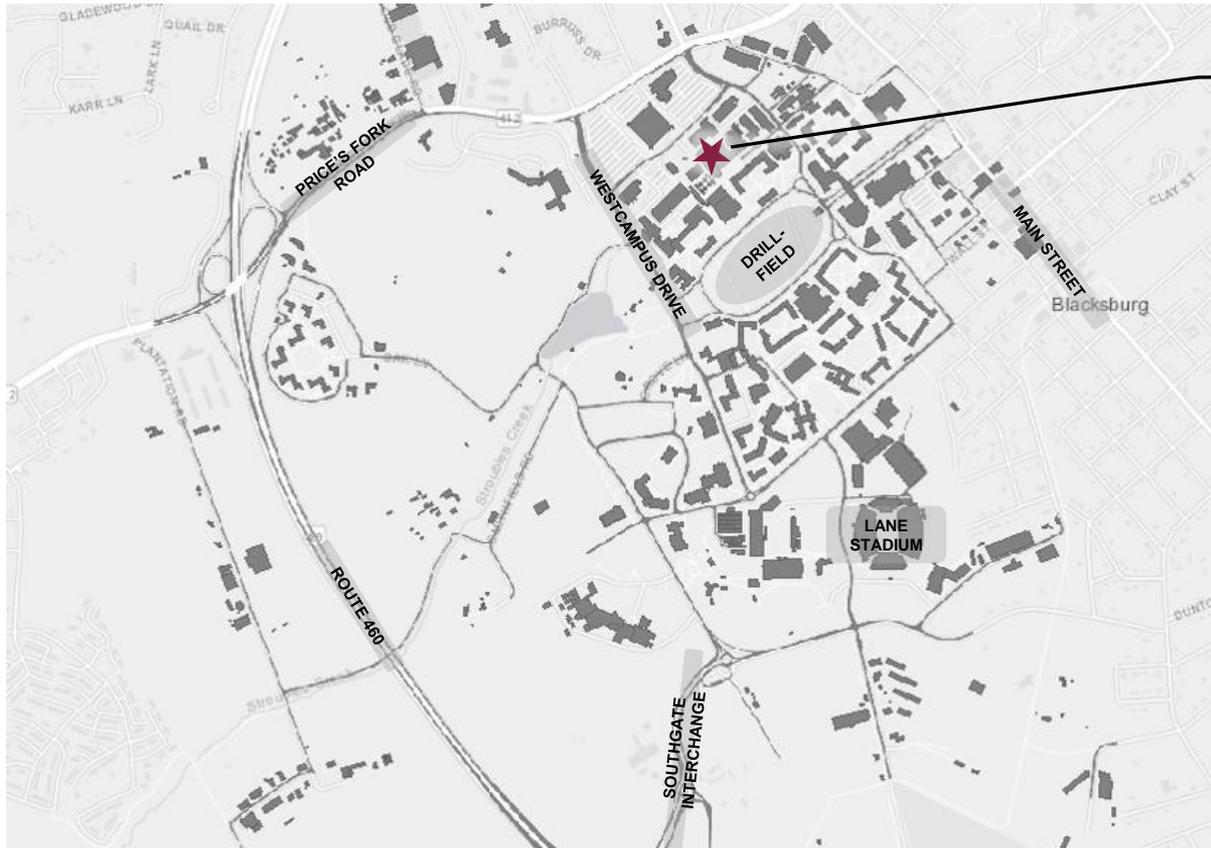
Demolition of University Buildings No. 0133 (Randolph Hall), No. 0270C (Randolph Annex), and Partial Demolition of No. 0133C (Hancock Hall)

Board of Visitors Resolution for Demolition

LIZA L.C. MORRIS, NCARB
ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

JUNE 6, 2023



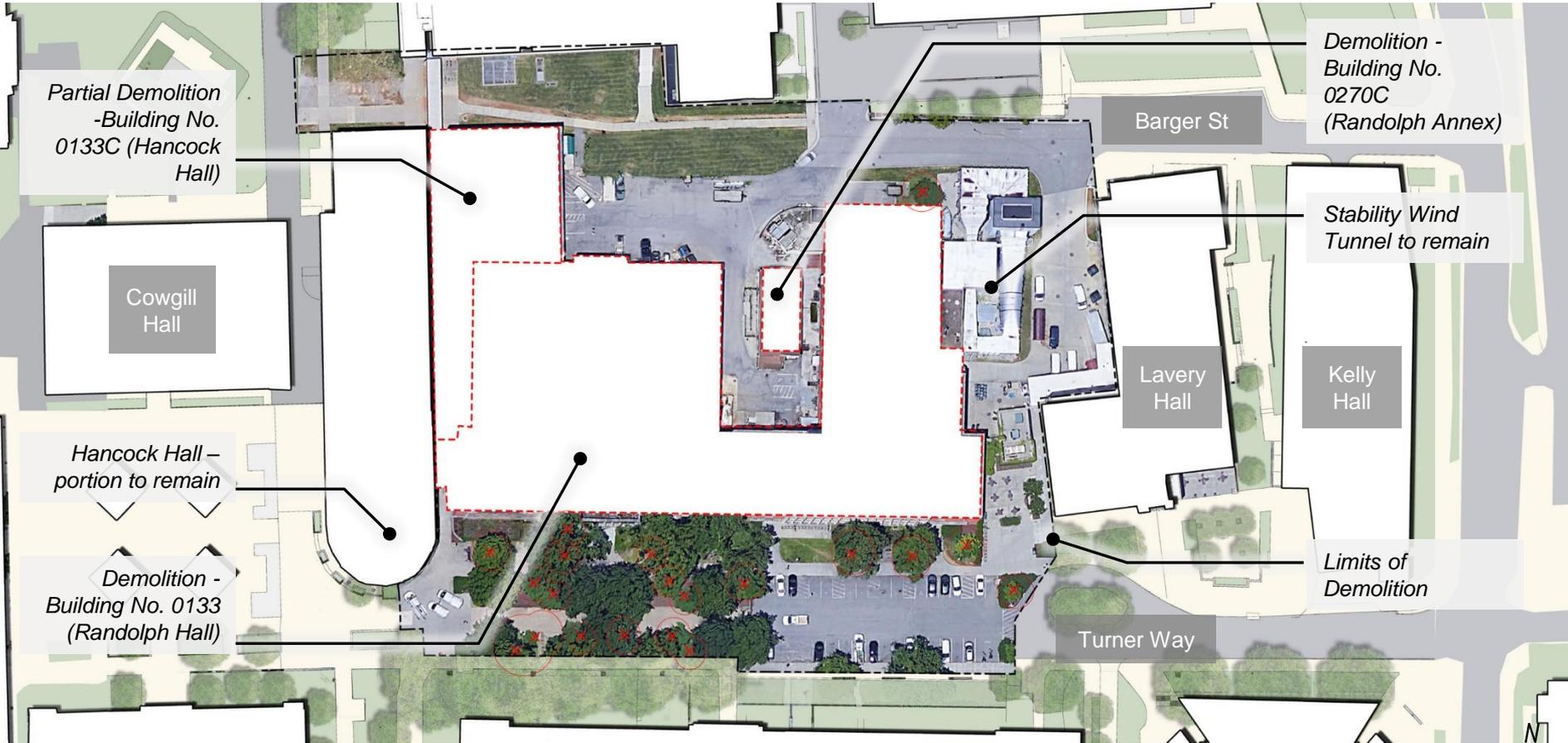


Site

/ DEMOLITION OF BUILDINGS 0133, 0270C, AND PARTIAL DEMOLITION OF BUILDING 0133C



DEMOLITION PLAN



DEMOLITION OF BUILDINGS 0133, 0270C, AND PARTIAL DEMOLITION OF BUILDING 0133C



DEMOLITION EXHIBITS

Demolition - Building No.
0270C (Randolph Annex)

Demolition - Building No.
0133 (Randolph Hall)

Stability Wind Tunnel to
remain

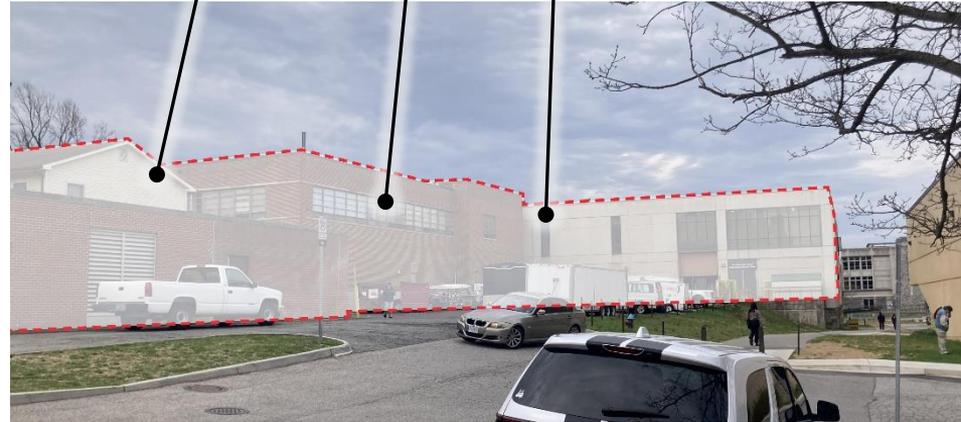


View to the southeast

Demolition - Building No.
0270C (Randolph Annex)

Demolition - Building No.
0133 (Randolph Hall)

Partial Demolition -
Bldg No. 0133C
(Hancock Hall)



View to the southwest

/ DEMOLITION OF BUILDINGS 0133, 0270C, AND PARTIAL DEMOLITION OF BUILDING 0133C

DEMOLITION EXHIBITS

*Hancock Hall –
portion to remain*

*Demolition - Building
No. 0133 (Randolph
Hall)*

*Demolition - Building
No. 0133 (Randolph
Hall)*



View to the northeast



View to the northwest

EXISTING CONDITIONS



← View to northeast from Turner Way

↓ View to south of Hancock and Randolph Halls interconnected

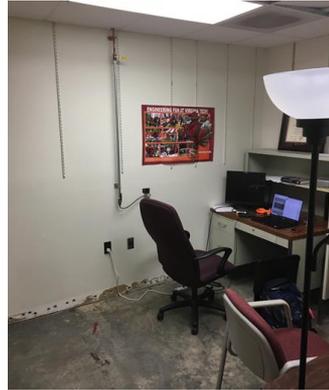
↑ View to north from loading area

→ View to south from loading area



EXISTING CONDITIONS

→ View of interior conditions - office space



↓ View of interior conditions - office corridor



↑ View of interior condition - shop space

← View of interior conditions



That the resolution authorizing the demolition of university buildings No. 0133, No. 0270C and the partial demolition of No. 0133C be approved.

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.

The logo for the UBO TEAM. It features a thin orange diagonal line on the left side, followed by the text "UBO TEAM" in a bold, orange, sans-serif font.

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

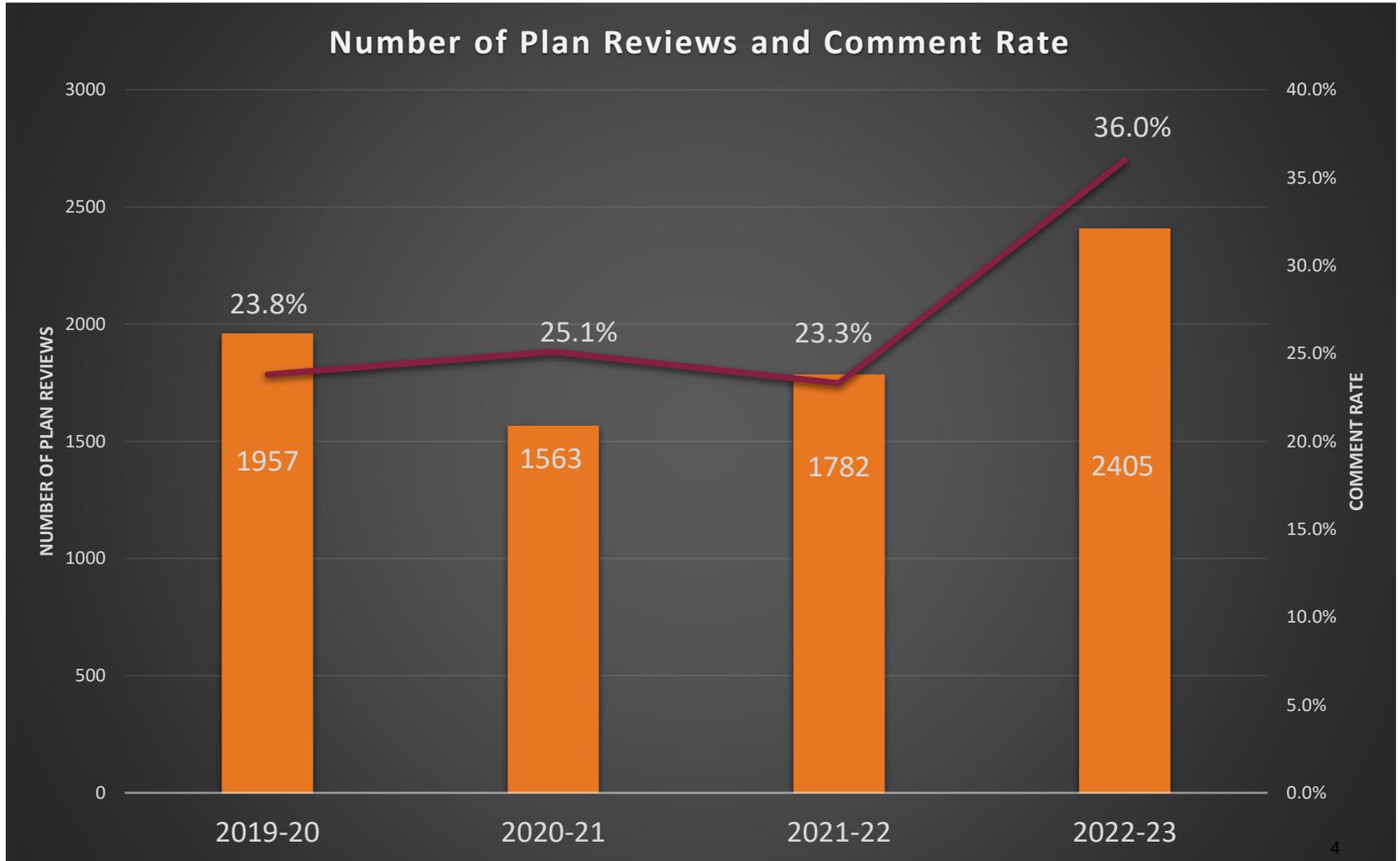
Electrical Code Plan
Reviewer/ Inspector

Mike Vellines, PE, CBO

Structural Code Plan
Reviewer/Inspector

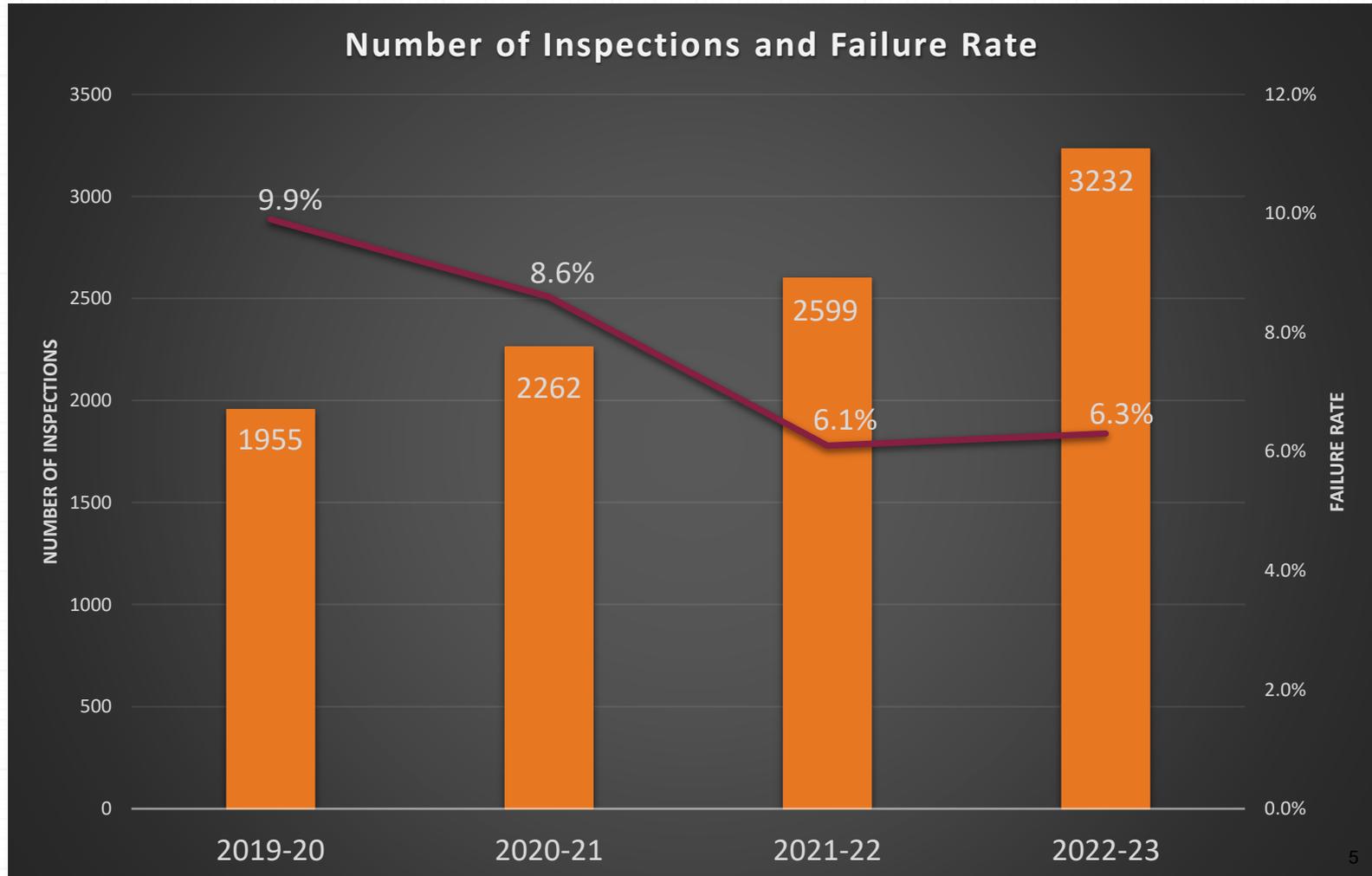
REVIEWS

23% INCREASE TO PRE-COVID NUMBERS



INSPECTIONS

65% INCREASE IN THE NUMBER OF INSPECTIONS WHILE REDUCING THE NUMBER OF PERCENTAGE OF INSPECTION FAILURES BY 3.6%



IMPROVEMENTS

Special Thanks
Michael Parrish
Whitney Spangler
Gannon Davis



Home Process

User Profile Notifications 100 About Logout

[Tutorial video](#) | Departments please submit customer funded requests through [HokieMart](#) | Leased properties please use landlord portals, if available

Search Request Types

Internal Work & Administrative Requests



Design Waiver



Special Inspections

University Building Official Requests



Inspection Requests



Applications



Code Modifications



Construction Trailer Permits



TCO/CO Submittal



TCO/CO Request



Cable Port Inspection Requests

DATA TRACKING

UBO Completed Inspections Summary

Project Type: PCAP | Project: CORPS LEADERSHIP MILITARY SCIENCE BUILD... | Inspector: All | Inspection Date: 4/2/2019 to 4/19/2023

[Clear Filters](#) | [See Inspections Detail](#)

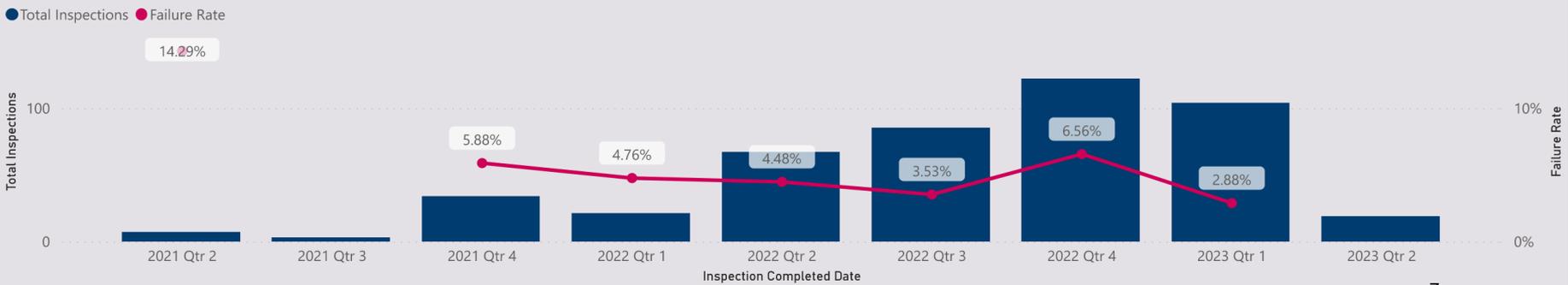
462 Total Inspections | **21** Failed Inspections | **4.55%** Failure Rate

Project #	Status	Project Name	Total Inspections	Failed Inspections	Failure Rate
UBO-20-0346	PERMITTED	CORPS LEADERSHIP MILITARY SCIENCE BUILDING - CLMS NEW CONST...	462	21	4.55%

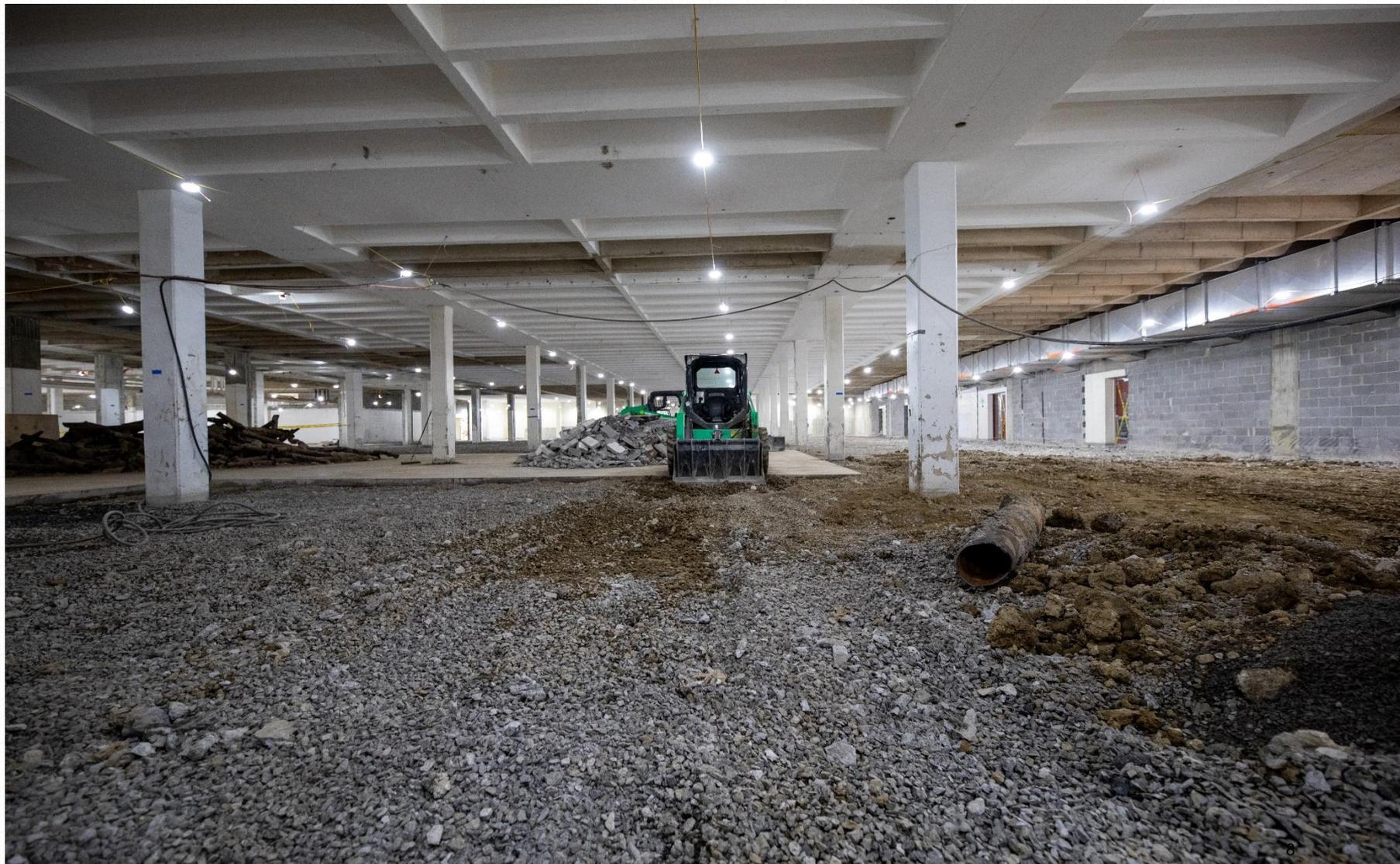
Inspection Type	Failed Inspections	Failure Rate	Total Ins...
B-WALL CLOSE IN	4	12.50%	
B-REINFORCEMENT	3	6.82%	
B-ABOVE CEILING	2	9.09%	
B-FIRE RTD WALL	2	4.76%	
B-FOUNDATION	2	11.11%	
B-FRAMING	2	11.11%	
B-HOKE STONE	2	1.55%	

Inspector	Failed Inspections	Failure Rate	Total Inspection
STSMITH1	12	10.53%	11
DAVIDSB22	3	3.16%	9
JLTHOMPS	2	6.90%	2
VELLINES	2	2.25%	8
BUSHJ	1	0.85%	11
THAGEDOR	1	6.67%	1
CKIEI			

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



QUESTIONS?





THANK YOU!

Office of the University Building Official

540-231-4678

vtubo-g@vt.edu

College of Agriculture Life Sciences (CALs) Projects Status Report
 BUILDINGS AND GROUNDS COMMITTEE
 June 6, 2023

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
CAPITAL PROJECTS						
Updates through May 31, 2023						
PROJECTS IN CONSTRUCTION						
Improve Kentland Facilities, Phase II	Applied Reproduction Facility (APR): 4,510 SF barn at Vet-Med for palpation and breeding instruction. Bovine Extension, Teaching and Research (BETR) Facility: 3,500 SF classroom building and 5,100 SF demonstration arena at livestock center on Plantation Road. Metabolic Research Laboratory (MRL): 11,330 SF animal laboratory at the Dairy Center at Kentland Farm.	\$12,463,000	Capital Outlay	Spectrum Snyder, CPPI	Fall 2020	All projects have reached substantial completion and have certificate of occupancy. Minor corrective work at the Metabolic Research Lab is ongoing.
New Virginia Seafood AREC Building	21,698 SF, 3-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.	\$9,260,000	Various	RRMM E.T. Gresham	April 2022	Certificate of Occupancy has been received. Remaining punch list and change order items are complete. Commissioning continues to find and address issues.
Livestock and Poultry Research Facilities, Phase I	Pkg 1: New Swine Center at Kentland Farm. Pkg 2: New Beef Nutrition Facility & Hay Shed at Kentland Farm Pkg 3: New Broiler & Turkey Grow-out facilities at the Turkey Research Center (Glade Rd.) Pkg 4: New Equitation Barn & Equipment Storage Building at Livestock Center (Plantation Rd.) Pkg 5: 3 New Hay Sheds at Smithfield Horse Center, Fields west of US 460, and Heth Farm Pkg 6: Final Demolition of remaining facilities	\$31,074,000	Capital Outlay	Spectrum Pkg 1: SIMCON Pkg 2: CPPI Pkg 3: CPPI Pkg 4: Clark Nexsen Pkg 5: TBD Pkg 6: TBD	Packages 1-4: Summer 2023 Packages 5-6: TBD	Packages 1-3 are 99% complete. Package 4 is 100% complete. Priority 1 Equipment buy-out is nearly complete. Occupancy to occur over summer. Packages 5-6: Package 5 and 6 are being prepared for bidding to secure funding.
PROJECTS IN DESIGN						
(none)						
PROJECT INITIATION / PLANNING STAGE						
2024-2030 6-Year Capital Outlay Plan	Capital budget requests for six projects: CNRE Center Woods, System-Wide AREC Improvements Phase I, Glade Road Relocation, Livestock and Poultry Research Facilities Phase II, Human and Agricultural Biosciences Building II, and System-Wide AREC Improvements Phase II.	TBD	Capital Outlay	TBD TBD	TBD	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.
System-Wide AREC Improvements, Phase I	Renew and expand aging and deteriorating AREC facilities. Revised phasing will address all capital needs at specific ARECs during each phase.	\$30,000,000	Capital Outlay	TBD TBD	TBD	Reviewing priority needs to determine 2-3 ARECs for inclusion in Phase I scope.
Replace Plant and Animal Facilities at Glade Road	Relocate existing facilities away from the Glade Road Research Facility.	\$41,000,000	Capital Outlay	TBD TBD	TBD	Reviewing program and budget with CPIF for budget submission
Plant & Animal Environmental Sciences Research Facility (HABB-II)	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.	\$68,000,000	Capital Outlay	EYP TBD	TBD	Re-programming effort completed with a \$53.5 M construction target. Draft Feasibility report is under review.
NON-CAPITAL PROJECTS						
Updates through May 31, 2023						
PROJECTS COMPLETED SINCE LAST REPORT						
Minor Projects (<\$25,000 each): AH Smith Jr. AREC Fuel Containment Pit repairs	Repair cracks and seal secondary containment pits for two fuel dispensing stations	\$15,000	CALS / VAES	- -	Winter 2022/2023	Complete
Kentland Farm Road Improvements	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. Other areas that are in better condition only require prime and seal coat to maintain their longevity. Additional areas for paving include the gravel road to the new swine center and an overlay of the KEAS UAV runway.	\$319,000	CALS	- Blackstone	May 2023	Complete

College of Agriculture Life Sciences (CALs) Projects Status Report
BUILDINGS AND GROUNDS COMMITTEE
June 6, 2023

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
Eastern Virginia AREC - Experiment Building Renovation	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.	\$195,000	Maintenance Reserve	Structures Group Eagle River	Spring 2023	Construction is substantially complete. Punch list work in progress.
Southern Piedmont AREC - Packhouse Restroom Repairs	Packhouse (0897) restroom is in need of plumbing repairs and upgrade to be reconfigured for ADA access. Packhouse roof is leaking and needs repair.	\$122,000	Maintenance Reserve	Thompson & Litton Stoker Construction	Spring 2023	Work is complete.
PROJECTS IN CONSTRUCTION						
<u>Minor Projects (<\$25,000 each):</u> Reynolds Homestead FRRC Exterior Repairs Shenandoah Valley AREC Working Pens Middleburg AREC Laundry Hookup Middleburg AREC Freeze Damage Repairs Hampton Roads AREC Water Heater Installation Southwest Va. AREC Ram Barn Shed Extension Employee Housing Outbuilding Repairs	Repair deteriorating eaves and trim on main AREC building. Installation of new working pens and open shed. Washer and dryer connections for one building. Repairs in 812 Annex due to frozen pipes bursting during holiday break. Add supplemental water heater to meet usage demands. Extend existing lean-to shed for additional feed pens, bunk space, holding pens and loadout. Repairs and painting exterior storage sheds at employee housing on Plantation Road.	\$111,000	CALS / VAES	- Multiple	Ongoing	In Progress
Alphin-Stuart parking lot paving	Paving over existing gravel parking area to reduce annual maintenance, solve drainage problems, expand number of spaces, and provide all-weather parking surface. Heavy-duty asphalt section to be installed for possible future bus turnaround.	\$241,000	CALS	- Blackstone	May 2023	Work is scheduled to be complete by end of May
AREC Exterior Signage Upgrades	Installation of 2 new exterior signs at each AREC with refreshed design to match current branding.	\$81,000	CALS / VAES	- Westview, Gropen	TBD	Signage installation complete at Tidewater, Southwest Virginia, Alson H. Smith Jr., Eastern Virginia, Middleburg, Southern Piedmont, Shenandoah Valley, and Eastern Shore ARECs. Final design and fabrication pending at others.
Beef Barn Repairs	Exterior and interior demolition followed by the installation of new roofing, hay loft flooring, doors, windows and lighting. This work was originally included in LPRF Phase 1, but removed due to scope concerns.	\$1,064,000	Maintenance Reserve	HDH, FEA Thor, SRC, Lilly	Summer 2023	Construction in progress. Roofing and lighting replacement complete. Structural repairs underway. Additional structural deterioration discovered during construction requiring extension of project schedule.
Tidewater AREC - Water system repair	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 purposes.	\$94,000	Maintenance Reserve / CALS	- Lewis Construction	Summer 2023	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.
Prices Fork Quarantine Lab Emergency Generator	Installation of new backup generator for operational reliability at Entomology Quarantine Facility at Prices Fork Research Center.	\$66,000	CALS	Gibson Engineering Davis H. Elliott	Summer 2023	Generator ship date is June 2023. Work is expected to take 1 month.
Prices Fork Quarantine Lab Autoclave installation	Installation of new 3-phase electric service and new autoclave for more reliable sterilization process.	\$165,000	CALS	5 Design Kesler	Fall 2023	Work is scheduled to begin in July.
Turfgrass Research Center Equipment Shed	New 1,440 square foot open-front pole shed at the Turfgrass Research Center for weather-protected storage of equipment.	\$65,000	CALS	- Superior	TBD	Sitework in progress. Construction schedule being established.
Tidewater AREC Entomology Lab Heat Pump Replacement	Existing heat pump is failing and must be replaced.	\$11,000	Maintenance Reserve	- TBD	TBD	Equipment on hand. Installation being scheduled.
Hampton Roads AREC Chiller Replacement	Existing chiller failed and must be replaced before cooling season.	\$116,000	Maintenance Reserve	Virginia A&E TBD	Summer 2023	Temporary chiller installed. New unit scheduled for late July delivery.
Alson H. Smith Jr. AREC Chilled Water System repairs	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.	\$438,000	Maintenance Reserve	TBD TBD	TBD	Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.

College of Agriculture Life Sciences (CALs) Projects Status Report
BUILDINGS AND GROUNDS COMMITTEE
June 6, 2023

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
PROJECTS IN DESIGN / PERMITTING						
<u>Minor Projects (<\$25,000) each:</u> Tidewater AREC Peanut Storage Shed Eastern Virginia AREC RTK Tower Installation Tidewater AREC RTK Tower Installation Southern Piedmont AREC RTK Tower Installation Southern Piedmont Lab Freezer Generator Installation Middleburg AREC House 815 and 818 HVAC Repl. Shenandoah Valley AREC Security Camera Installation Eastern Shore AREC Fume Hood Replacement Hampton Roads AREC Fume Hood Replacement Southern Piedmont AREC Fume Hood Replacement Tidewater AREC Security System Installation	960 square foot prefabricated structure for field storage of harvested peanuts. Power and data connections for new GPS and Wi-Fi tower. Power and data connections for new GPS and Wi-Fi tower. Power and data connections for new GPS and Wi-Fi tower. Add backup power generator to serve circuits for critical lab freezers. Replace aging HVAC in two employee houses. Addition of security cameras to monitor historic area. Replace an aging fume hood in Soils Wet Lab. Replace an aging fume hood in Horticulture Lab. Replace an aging fume hood in Lab 104. Install security cameras to monitor parking areas.	\$128,000	CALS / VAES	- Multiple	Various	In Progress
Grenhouse F5 Structural and Mechanical Repairs	End wall of Greenhouse F5 at the Lutz 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.	\$160,000	Maintenance Reserve	- Puckett	TBD	Final cost is being developed with term contract greenhouse contractor.
Heth Farm Shed and Silo Demolition	Demolish two structures that are currently unsafe and operationally unnecessary	TBD	CALS	TBD TBD	TBD	Lead and asbestos study complete. Obtaining quotes and permits for demolition.
Judging Pavilion Repairs	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.	\$362,000	Maintenance Reserve	TBD TBD	TBD	Scope review with University Building Official (UBO) is necessary to resolve code requirements and funding eligibility. Project deferred to 2023.
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.	\$93,000	Maintenance Reserve, CALS	Hughes TBD	TBD	A/E Proposal development underway.
Middleburg AREC Stable exterior repairs	Existing roof and windows are leaking. Several stalls are unusable due to leaks. Several windows are rotten.	\$100,000	Maintenance Reserve	5 Design TBD	TBD	Design work underway.
Middleburg AREC Clinic/Admin Building HVAC repairs	Two existing heat pump systems have failed during critical and ongoing research projects.	\$40,000	Maintenance Reserve	5 Design TBD	TBD	Design work underway. Temporary repairs made in May.
Tidewater AREC Main Office and Lab Roof Replacement	Existing roof is leaking causing damage to main lobby interior walls and classroom area.	\$78,000	Maintenance Reserve	HDH TBD	TBD	Design drawings in progress.
Southern Piedmont AREC - Building Repairs	Repair/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (0893A, 0893B, 0893C, 0893D)	\$51,000	Maintenance Reserve	TBD TBD	TBD	Design drawings under review.
Southern Piedmont AREC - Pavement repairs	Existing main parking lots (3) 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.	\$126,000	CALS / VAES	- TBD	TBD	Contractor quote being updated.
Southern Piedmont AREC Greenhouse Controls Upgrade	Minor project to make power connections for new Smart Greenhouse controls in two greenhouse ranges.	TBD	CALS	- Pucket Greenhouses, Growlink	TBD	Equipment has been ordered.
Sheep Barn Sturctural Repairs	Additional structure required to support weight of hay in loft above.	TBD	Maintenance Reserve	- TBD	TBD	Schematic design approved. Final design in progress.

College of Agriculture Life Sciences (CALs) Projects Status Report
BUILDINGS AND GROUNDS COMMITTEE
June 6, 2023

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
NI&S Communication antennae installation	New antennae to be installed at the Beef Barn and HABB1 for enhanced coverage along Stroubles Creek research bed.	TBD	TBD	-	TBD	Design in progress.
Eastern Shore AREC Lab 08B Renovation	Upfit of existing space to accommodate new research lab.	\$100,000	CALS	TBD	TBD	A/E procurement underway.
				TBD		
PROJECT INITIATION / PLANNING STAGE						
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.	\$1,823,000	TBD	Coker Composting & Consulting, Reduction in Motion	TBD	Zero Waste consultant team updating plan, assessing current waste stream, and evaluating alternate composting methods.
				TBD		
Turkey Farm Processing Building Repair	Interior Demolition followed by the installation of new cold-formed steel stud interior partitions, new doors and a window, fiberglass reinforced plastic paneling and epoxy painted floors. This work was originally included in LPRF Phase 1, but removed due to scope concerns.	\$140,000	Maintenance Reserve	TBD	TBD	Scope and budget development.
				TBD		
Moore Farm Barn 0501 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.	TBD	Maintenance Reserve	TBD	TBD	Scope and budget development.
				TBD		
Moore Farm Shed 0508 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 pouring 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.	TBD	Maintenance Reserve	TBD	TBD	Scope and budget development.
				TBD		
Alson H. Smith AREC - Repair paving and parking	Existing asphalt parking lot and drives are deteriorating and in need of repaving.	\$56,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2023.
				TBD		
Tidewater AREC - Repair paving and parking	Existing asphalt parking lot and drives are deteriorating and in need of repaving.	\$150,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2023.
				TBD		
Southern Piedmont AREC Modular Housing	Addition of a new 4-bedroom modular employee housing unit at Southern Piedmont AREC.	TBD	CALS / VAES	TBD	TBD	Scope and budget development.
				TBD		
Middleburg AREC - Exterior Repairs	Siding on several buildings is in need of repair/replacement due to advanced age: Annex (0812), Frame Beef Barn (0807), Milking Barn and Milk House (0809), Loafing Barn (0810), Clinic/Admin Building (0823), Stable (0824). 8 run-in sheds (0799) are deteriorating and in need of repair or replacement. Corn House and Machinery Shed (0803) is in need of structural repairs. Basement of Annex (0812) floods and needs drainage corrections.	\$158,000	Maintenance Reserve	TBD	TBD	Scope and budget development.
				TBD		
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.	\$76,000	Maintenance Reserve	TBD	TBD	Scope and budget development.
				TBD		
Shenandoah Valley AREC - Renovate Carriage House	Renovate Carriage House to add two single-user public restrooms and welcome center area for visitors to the McCormick Farm.	TBD	CALS / VAES	TBD	TBD	Scope and budget development underway. Study will be necessary to address development within historic property for Department of Historic Resources.
				TBD		
Smithfield Equine Complex	Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add bleachers, restrooms, announcer stand, fencing, quarantine facility.	TBD	Private	TBD	TBD	Scope and budget development.
				TBD		

College of Agriculture Life Sciences (CALs) Projects Status Report
 BUILDINGS AND GROUNDS COMMITTEE
 June 6, 2023

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
Smithfield Equine Classroom Renovations, Phase 2	Completion of building envelope repairs, restroom repairs, accessibility improvements.	\$110,000	Maintenance Reserve, CALS	TBD TBD	TBD	Scope and budget development.
INFORMATION TECHNOLOGY (IT) PROJECTS						
Updates through May 31, 2023. New information is in bold.						
PROJECTS COMPLETED						
Real Time Kinematic (RTK)	This project installs Real-Time Kinematic (RTK) systems at select ARECs. RTK enables the ARECs to implement precision agriculture research practices by increasing the precision of standard GPS from an accuracy of 2-4 meters to ~1 centimeter.	\$213,000	CALS / VAES	CALS IT John Deere Trimble	Complete	All systems installed, tested, and operational
Kentland 5G Proposal (SmartFarm Project)	A project has been initiated to 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, animal-based research. This initial project is would create a 5G/CBRS testbed at Kentland Farm.	TBD	TBD	CALS IT Division of IT MAAP VTNSI 5G Consortium	Cancelled	5G Consortium toured Kentland Farms and learned of potential 5G agricultural applications on January 30 and 31. Continued discussions required to determine roles and responsibilities, funding, and opportunities. Previous efforts have been stymied due to the inability to get tower installation approval at Kentland. After further discussions, it was agreed to cancel this effort at this time. The projected wireless capability was not expected to be worth the costs and labor required. In addition, there were not enough practical use cases currently available to thoroughly test this out. Stakeholders agreed to have the Center for Advanced Innovation in Agriculture (CAIA) study this more in the fall, and reengage with the 5G Consortium if it is believed there may be a good opportunity to partner up on some new research initiatives.
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 / VAES	CALS IT Division of IT	Ongoing	1) Kentland Dark Fiber: Complete. Upgraded from 200MB to 10GB. 2) Kentland Swine Center Connection: Complete. 3) Kentland Hay Shed: In planning. 4) Turkey Farm (Glade Rd.): Complete. 5) Turfgrass Center is currently using a cellular hotspot for internet service and CALS is working with vendor to upgrade to fiber connectivity (no ECD at this time).
AREC 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 / VAES	CALS IT Division of IT	On Hold	VOIP conversion projects have been completed at 8 of the 11 ARECs. Remaining locations include Hampton Roads, Reynolds Homestead, and Southwest Virginia ARECs where the existing telephone service has been adequate. The existing service contract expires in two years and the Division of IT has announced that a new Zoom phone contract has been awarded to replace the existing system. It does not make sense to migrate any additional offices to the legacy system, and instead wait to migrate these to the new Zoom offering once it becomes available.
Network Equipment Upgrades and Expansion	This project replaces or upgrades aging Local Area Network (LAN) equipment as well as expand in-building wireless and some external 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 / VAES	CALS IT	Ongoing	All equipment has finally arrived! Equipment is being configured, shipped, and installed. These network installations at the ARECs and VCE locations will take much of the year to complete. Installations have been completed at 5 of the ARECs and work included the installation of 20 new switches, 80 wireless access points, and various other network equipment and cabling.
Eastern Virginia AREC Field-level Wireless (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.	\$53,000	CALS / VAES	CALS IT Dell JMA Pierson Wireless	On Hold	After further analysis, this project may not provide the wireless coverage as expected. In addition, costs for new devices (current equipment is not compatible) and annual service charge questions have led to a temporary pause in the project pending clarification from the vendor. Discussions with all stakeholders continue. However, it is expected that this project will most likely be cancelled.
AREC Audiovisual (A/V) Upgrades - Phase 2	Installation of new audio and video equipment for ARECs to provide enhanced conferencing abilities in classrooms. Much of this second phase is focused on some of the smaller AREC offices.	\$130,000	CALS / VAES	CALS IT Vendor: Lee Harman and Sons	Ongoing	This phase is reviewing the potential for adding A/V systems to Eastern Virginia, Eastern Shore, Middleburg, Shenandoah, and Southwest Virginia AREC offices. Systems specification are being compiled and orders submitted.
PROJECT INITIATION / PLANNING STAGE						
N/A						



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



Southern Piedmont AREC Packhouse Restroom Repairs



Kentland Farm Roadway Maintenance and Repaving

NON-CAPITAL PROJECT PROGRESS

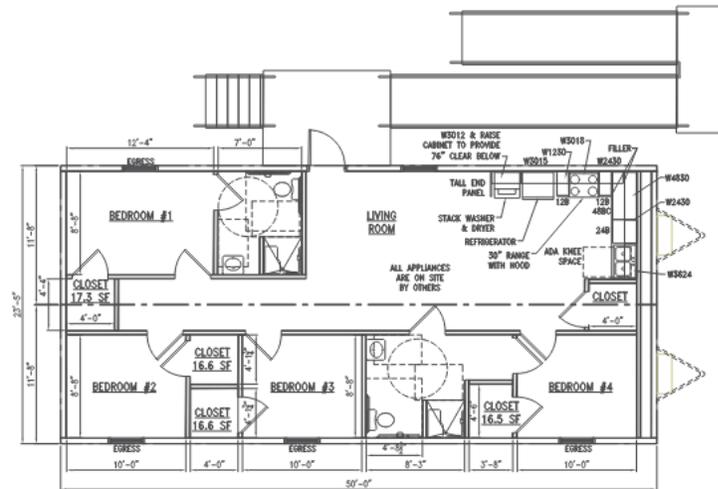
Key Projects In Progress

- 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

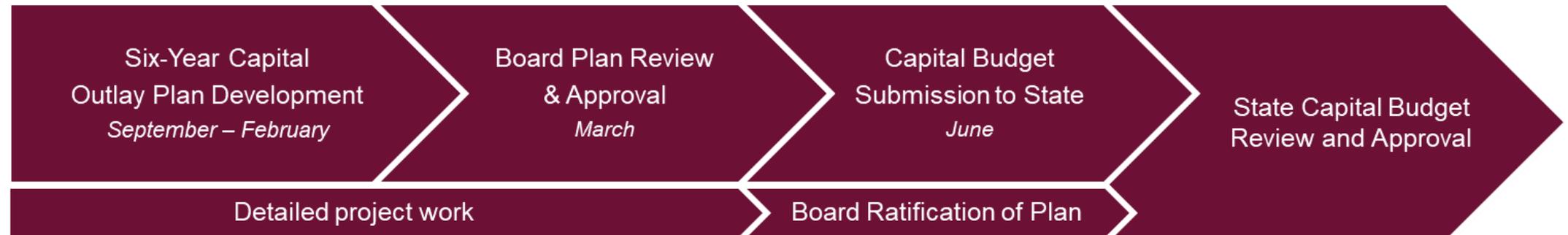
LIVESTOCK AND POULTRY RESEARCH FACILITIES, Phase 1, Bid Package Updates:

- 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



CAPITAL PROJECT PROGRESS - PLANNING

Agency 229 Six-year Capital Outlay Plan for 2024-2030	357,700 GSF	\$213 M
1. Improve Center Woods Complex (CNRE)	25,900 GSF	\$17 M
2. System-Wide AREC Improvements, Phase 1	71,000 GSF	\$30 M
3. Replace Plant and Animal Facilities at Glade Road	64,200 GSF	\$41 M
4. HABB-II Plant and Environmental Sciences Research Facility	94,000 GSF	\$91 M
5. Renew Animal and Livestock Facilities, Phase 2	102,600 GSF	\$34 M



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



New AREC Router, Switch,
and Cabling Installed

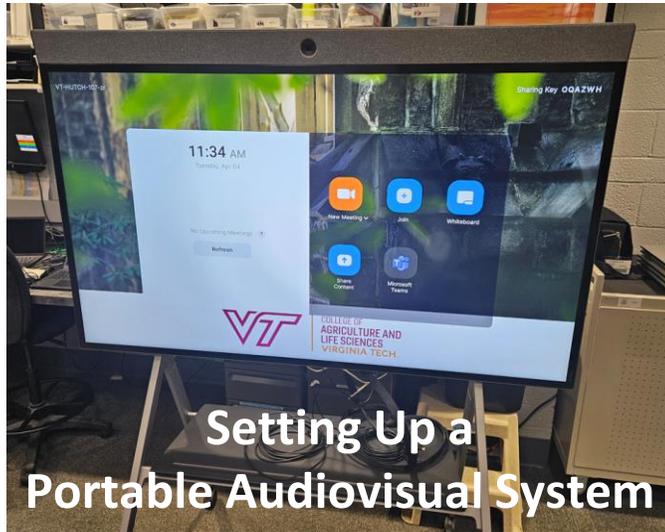


Last General Assembly
Equipment Order Finally
Received!

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



**Setting Up a
Portable Audiovisual System**



**Southern Piedmont AREC
Classroom Audiovisual Upgraded**



Resolution for a Capital Project for the Football Locker Room Renovation

BOB BROYDEN

Associate Vice President for Campus Planning and Capital Financing

JUNE 5, 2023



Football Locker Room Renovation

- Program: provide a state-of-the-art hydrotherapy suite and renovations to the players' restrooms and shower facilities
- Scope: 4,200 SF renovation of existing spaces within the Jamerson Athletic Facility
- Schedule: target completion is fall 2024
- Cost: \$4.1 million construction and \$5.9 total project cost
- Funding Plan: Private gifts



Resolution for a Capital Project for the Football Locker Room Renovation

ATTACHMENT I

NOW, THEREFORE, BE IT RESOLVED, that the university be authorized to design and construct the Football Locker Room Renovation project with an expected construction value of \$4.1 million plus associated soft costs for a total project budget not to exceed \$5.9 million.

RECOMMENDATION

That the resolution authorizing Virginia Tech to complete the Football Locker Room Renovation project be approved.

JUNE 6, 2023

Resolution for a Capital Planning Project for Student Life Village Phase I

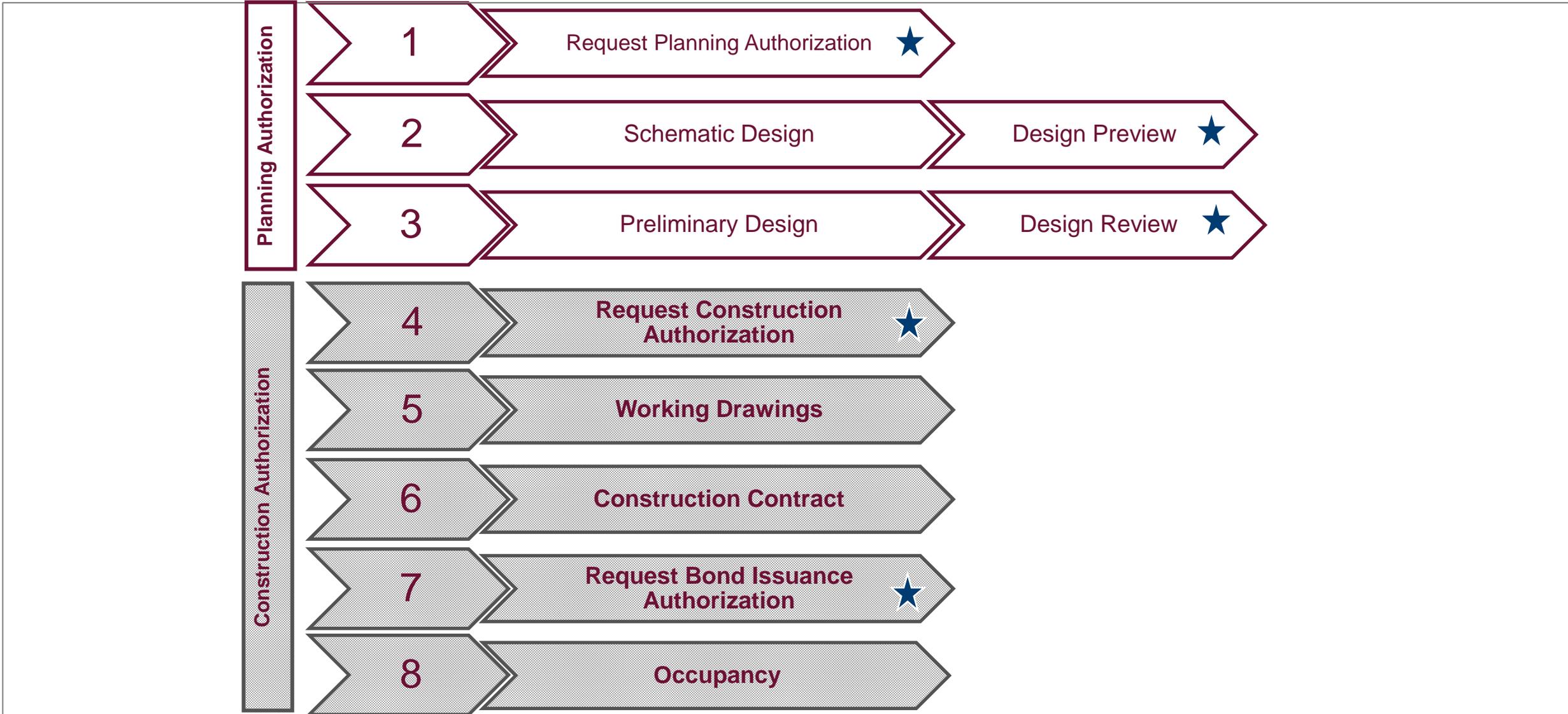
BOB BROYDEN

Associate Vice President for Campus Planning and Capital Financing

JUNE 5, 2023



Steps, Approvals, and Timing



Phase I Scope Overview

PHASE I

- 1,750 Beds
- Dining Facility
- Recreation Facility
- Transit Plaza
- Village Trail

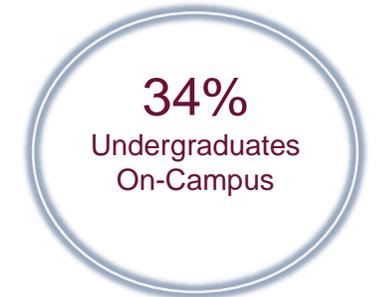
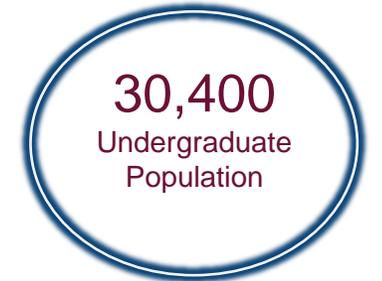


On-Campus Housing Breakdown

On-Campus Bed Inventory, Fall 2023

7,085	67%	First Time in College (FTIC)
1,200	26%	Existing LLCs (continuing)
900		Corps of Cadets (continuing)
630		Fraternity & Sorority housing
300		Residential Well-being Student Leaders
270	7%	Transfer, Graduate, & International Students
115		Med/ADA accommodations

10,500 Total on-campus bed inventory, 2023



On-Campus Bed Projections, fall 2028, est.

<u>10,500</u>	On-campus bed inventory, fall 2023
+1,750	Student Life Village, Phase I beds
-630	Demolish Slusher Hall
-500	Pull rooms for renovations
<u>11,120</u>	Adjusted inventory, fall 2028, est.
<u><u>620</u></u>	Net new beds to establish LLC for Global Business and Analytics Complex

Resolution for a Capital Planning Project for Student Life Village Phase I

NOW, THEREFORE, BE IT RESOLVED, that the university be authorized to move forward with a \$19.5 million planning authorization to complete preliminary designs for Phase I of the Student Life Village.

RECOMMENDATION

That the resolution authorizing Virginia Tech to plan the Student Life Village Phase I be approved.

JUNE 6, 2023