

**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.

♦ 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:

President Tim Sands, Mac Babb, Jeri Baker, Lynsay Belshe, Bob Broyden, Van Coble, Joe Cooley, Al Cooper, Alisha Ebert, Mark Gess, Emily Gibson, Alan Grant, Wendy Halsey, Kay Heidbreder, Jim Hillman, Patrick Hilt, Mary-Ann Ibeziako, Robin Jones, Frances Keene, Chris Kiel, Chris Kiwus, Sharon Kurek, Jamie Lau, Rob Mann, Joy Manning, Megan Marsh, Elizabeth McClanahan, Nancy Meacham, Liza Morris, Saied Mostaghimi, Mike Mulhare, Heidi Myers, Justin Noble, Kelly Oaks, Charlie Phlegar, Jon Porter, Dwyn Taylor, Jon Clark Teglas, Pam Vickers, Rob Viers, Lisa Wilkes, and Chris Wise

- 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

♦ **Discusses Enterprise Risk Management topic(s).**

* **Requires full Board approval.**

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 Cowgill 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 recommended 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 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 recommended 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.

- ♦ 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

Absent:

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 Street, Kansas City, MO.*

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.

- ♦ **Discusses Enterprise Risk Management topic(s).**
- * **Requires full Board approval.**

Open Session Agenda

BUILDINGS AND GROUNDS COMMITTEE

Monday, April 4, 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 10:00 a.m. in the Solitude Room of the Inn at Virginia Tech and Skelton Conference Center.

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Tour of Holden Hall and the Data & Decision Sciences Building	Chris Kiwus
2. Welcome	Shelley Butler Barlow, Chair
3. Consent Agenda	Shelley Butler Barlow, Chair
a. Approval of the Minutes from the November 8, 2021 Meeting	
* b. Resolution to Approve the New River Valley Passenger Rail Station Authority Agreement	
* c. Resolution to Approve Appointments to the New River Valley Passenger Rail Station Authority	
* d. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority	
* e. Resolution to Approve the Disposition of University Building No. 0350 (Lumenhaus)	
* 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	
g. Acceptance of the Capital Project Status Report	
4. Update on Agricultural Facilities	Alan Grant
5. Update on Parking and Transportation	Lynsay Belshe Jeri Baker
6. Overview of Facilities Accessibility Projects	Kelly Oaks Wendy Halsey
7. Discussion of Strategic Facilities Investment Programs	Chris Kiwus
8. Future Agenda Items and Closing Remarks	Shelley Butler Barlow, Chair

♦ Discusses Enterprise Risk Management topic(s).

* Requires full Board approval.

Joint Closed/Open Session Agenda

**FINANCE AND RESOURCE MANAGEMENT COMMITTEE AND BUILDINGS AND
GROUNDS COMMITTEES**

11:30 a.m.

April 4, 2022

Joint Closed

Agenda Item

**Reporting
Responsibility**

- | | | |
|------|---|--|
| 1. | Motion to Begin Closed Session | Sharon Brickhouse
Martin |
| * 2. | Approval of Resolution for the Disposition of Real Estate | Ken Miller
Chris Kiwus
Bob Broyden |

Joint Open

Agenda Item

**Reporting
Responsibility**

- | | | |
|------|--|--|
| 1. | Motion to Reconvene in Open Session | Sharon Brickhouse
Martin |
| 2. | Approval of Items Discussed in Closed Session | Ed Baine |
| * 3. | Approval of Resolution for a Long-term Lease for the Research Swing Space | Ken Miller
Chris Kiwus
Bob Broyden |
| * 4. | Approval of Resolution for a Long-term Lease for the Gilbert Street Project | Ken Miller
Chris Kiwus
Bob Broyden |
| * 5. | Approval of Resolution for Planning for the New Pamplin College of Business Building | Ken Miller
Chris Kiwus
Bob Broyden |

*** Requires full Board approval.**

◆ Discusses Enterprise Risk Management topic(s).

Tour of Holden Hall and the Data & Decision Sciences Building

BUILDINGS AND GROUNDS COMMITTEE

April 4, 2022

The Committee will tour Holden Hall and the Data & Decision Sciences Building construction site.

Consent Agenda
BUILDINGS AND GROUNDS COMMITTEE

April 4, 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 November 8, 2021 Meeting
- * b. Resolution to Approve the New River Valley Passenger Rail Station Authority Agreement
- * c. Resolution to Approve Appointments to the New River Valley Passenger Rail Station Authority
- * d. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority
- * e. Resolution to Approve the Disposition of University Building No. 0350 (Lumenhaus)
- * 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
- g. Acceptance of the Capital Project Status Report

* Requires full Board approval.

CAPITAL PROJECTS UPDATE

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS
APRIL 2022



VIRGINIA
TECH.

150

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: 14 MAR 2022

Legend:

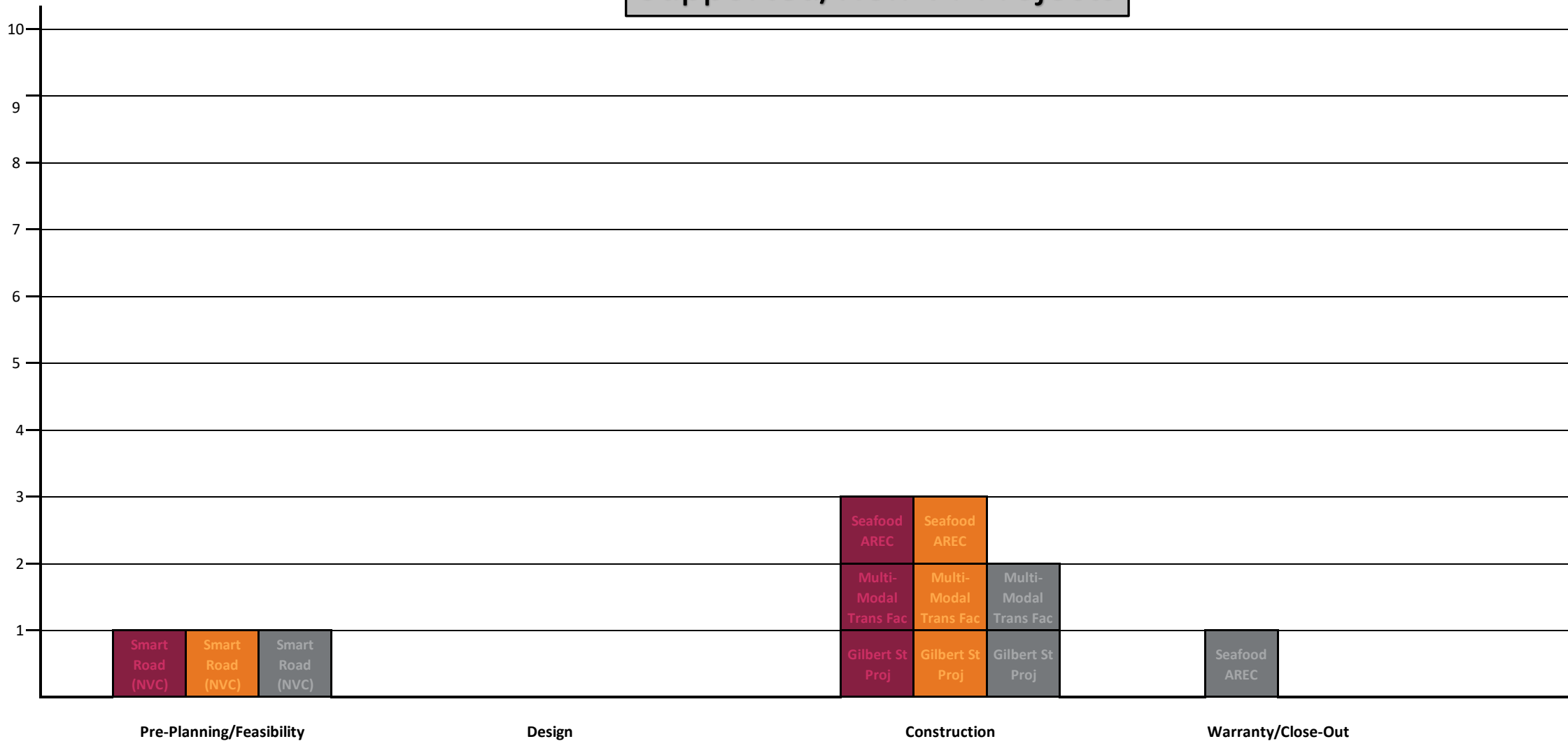
Schematic Design Phase
 Preliminary Design Phase
 Working Drawings Phase
 Construction Phase

Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					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															
Creativity & Innovation District Living Learning Community	\$105.5	\$85.3	232,000				WARRANTY													
Holden Hall Renovations	\$74.9	\$58.5	82,905	20,240					WARRANTY											
Gas-Fired Boiler at Central Steam Plant	\$8.2	\$3.8	N/A						WARRANTY											
Chiller Plant Phase II	\$42.9	\$32.7	N/A																	
Data & Decision Sciences Building (D&DS)	\$79.0	\$58.9	120,000																	
Livestock & Poultry Research Facilities (Ph I) -- Various Locations	\$25.3	\$18.2	129,100																	
Multi-Modal Transit Facility (Note 1)	N/A	N/A	13,606																	
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449																
New Upper Quad Residence Hall	\$42.0	\$32.0	56,650																	
Innovation Campus - Academic Building (Note 2)	\$302.1	\$223.5	299,733																	
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960																
HITT Hall (Note 2)	\$85.0	\$65.5	101,000																	
Undergraduate Science Laboratory Building	\$90.4	\$69.5	102,746																	
Student Wellness Improvements (War Memorial Gym & McComas Hall)	\$58.0	\$46.9		217,708																
Life, Health, Safety, Accessibility and Code Compliance	\$3.1	\$2.2																		
Planning: Tennis Center Improvements -- <i>Design Only</i>	\$0.8	\$3.0	7,000	500																
Planning: Replace Randolph Hall (Mitchell Hall) -- <i>Design Only</i>	\$11.0	\$170.0	284,000																	
Global Business & Analytics Complex Residence Halls	\$84.0	\$66.0	160,000		ON HOLD															
TOTALS	\$1,085.8		1,688,869	258,857																
Note 1: Non-VT project																				
Note 2: Multiple GMPs results in design/construction overlap (fast track)																				

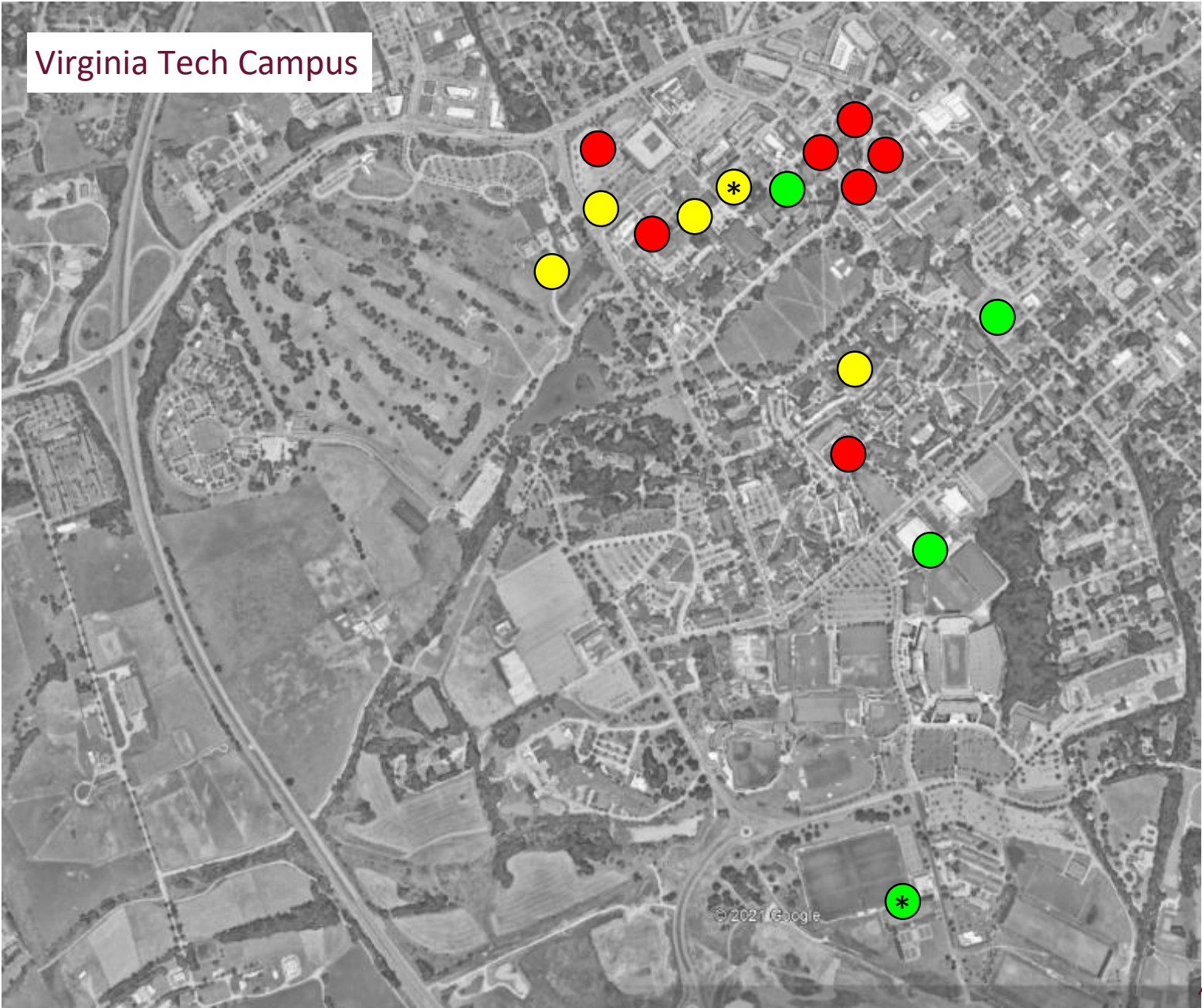
	Pre-Planning/Feasibility				Design			Construction			Warranty/Close-Out			
10														
9					Innov Campus Acad Bldg					Dietrick Renov				
8					Tennis Ctr Improv Dsgn Only			CID LLC	Innov Campus Acad Bldg	Hitt Hall				
7					Slusher Hall Dsgn Only	Randolph Hall		Gas Fired Boiler	Gas Fired Boiler	Innov Campus Acad Bldg				
6					U/G Science Labs	U/G Science Labs		Chiller Plant (Ph II)	Chiller Plant (Ph II)	Gas Fired Boiler				
5					ADA Life Health Safety	ADA Life Health Safety	Randolph Hall	Holden Hall	Holden Hall	Chiller Plant (Ph II)				
4					Hitt Hall	Hitt Hall	U/G Science Labs	Data & Decision Sciences	Data & Decision Sciences	Data & Decision Sciences		Athletic Weight Room	Tennis Ctr Improv Dsgn Only	Holden Hall
3					Dietrick Renov	Dietrick Renov	ADA Life Health Safety	Livestock & Poultry Research	Livestock & Poultry Research	Livestock & Poultry Research		VTC Bio-Med Research	CID LLC	Tennis Ctr Improv Dsgn Only
2		Randolph Hall			Student Wellness	Student Wellness	Student Wellness	Corps Ldrshp & Mil Sci	Corps Ldrshp & Mil Sci	Corps Ldrshp & Mil Sci		Improve Kentland Facilities	Improve Kentland Facilities	CID LLC
1		Student Village	Student Village	Student Village	GBAC LLC	GBAC LLC	GBAC LLC	NUQ Residence Hall	NUQ Residence Hall	NUQ Residence Hall		Student Athlete Perf Ctr	Student Athlete Perf Ctr	Improve Kentland Facilities

Project Portfolio Distribution

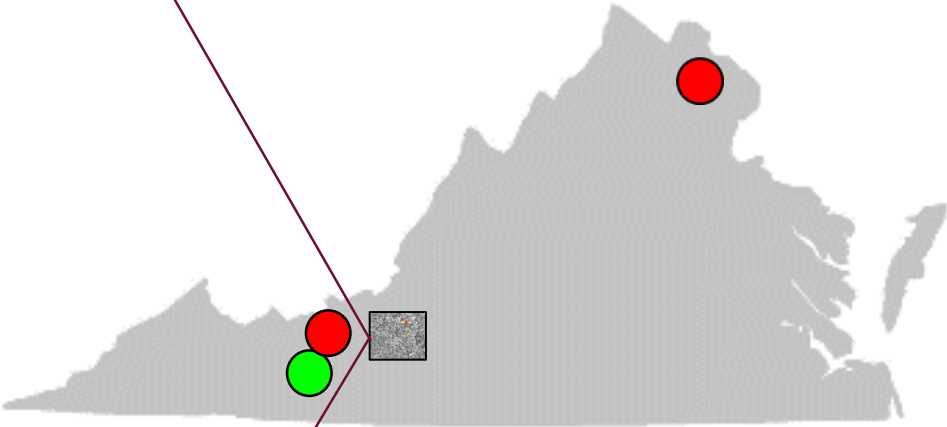
Supported/Non-VT Projects






Virginia Tech Campus



Capital Project Portfolio



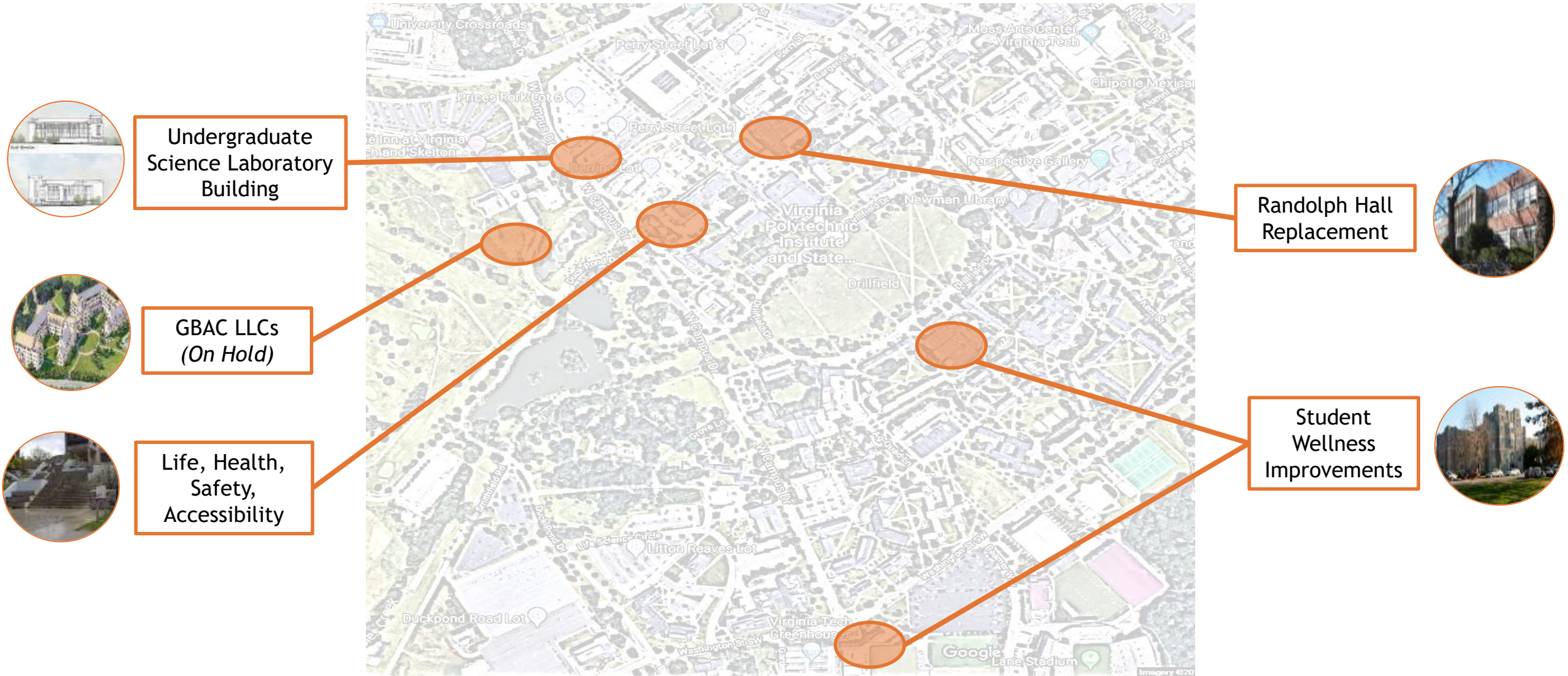
Legend

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

In Design



Projects In Design



Undergraduate Science Laboratory Building

CMAR

State Authorized



- Status:
- GMP submitted by CMaR in January over budget by approx 7.5%
 - Successfully reduced budget overrun through Value Management options and sought 5% funding supplement from State in February
 - Received 5% funding supplement from State on 9 March

- Next Actions:
- Award of GMP (full construction) contract targeted for late March

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																					
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024				
					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	
					FY21		FY22		Q4	FY23		FY24		FY25							
					Q3	Q4	Q1	Q2		Q3	Q1	Q2	Q3	Q4	Q1	Q2					
Undergraduate Science Laboratory Building	\$90.4	\$69.5	102,746																		

Designer: ZGF

Builder: Skanska

Planning: Replace Randolph Hall (Mitchell Hall)

CMaR

State Authorized



- 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

<div> <div>Legend:</div> <div> <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div> </div> </div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Planning: Replace Randolph Hall (Mitchell Hall) -- Design Only	\$11.0	\$170.0	284,000																	

Life, Health, Safety, Accessibility & Code Compliance

Design-Bid-Build
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 June and develop final cost estimates

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
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					FY21		FY22		Q4	FY23		FY24		FY25						
					Q3	Q4	Q1	Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
Life, Health, Safety, Accessibility and Code Compliance	\$3.1	\$2.2																		

Designer: Quinn Evans

Builder: TBD

Student Wellness Improvements

CM at Risk
BOV Authorized



- Status:
- Design is 99% complete
 - Cost estimates received in February indicate project is 24% over budget principally due to extreme market escalation
 - Developing strategy to meet program needs and provide key benefits for students through reduction of some project scope and infusion of some additional funding

- Next Actions:
- Finalize and implement appropriate strategy to move project forward

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
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					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Student Wellness Improvements (War Memorial Gym & McComas Hall)	\$58.0	\$44.0		217,708																

Designer: Cannon Design

Builder: Whiting-Turner

Global Business & Analytics Complex Residence Halls

Design-Bid-Build
BOV Authorized



- 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 the support the program within the Student Life Village

Legend: <div><div></div> Schematic Design Phase</div> <div><div></div> Preliminary Design Phase</div> <div><div></div> Working Drawings Phase</div> <div><div></div> Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		Q4	FY23			FY24			FY25				
					Q3	Q4	Q1	Q2		Q3	Q1	Q2	Q3	Q4	Q1	Q2				
Global Business & Analytics Complex Residence Halls	\$84.0	\$66.0	160,000		ON HOLD															

Designer: TBD

Builder: TBD

Planning: Tennis Center Improvements

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

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Planning: Tennis Center Improvements (Design Only)	\$0.8	\$3.0	7,000	500																

Designer: Tymoff & Moss

Builder: TBD

Under Construction



Active Construction Projects



Innovation Campus- Academic Building

CM at Risk
State Authorized



Status:

- Construction underway for GMP-1 (early site package) for foundations/parking garage (27% complete)
- GMP-2 (building construction) pricing package in hand



Next Actions:

- Finalize negotiations and award GMP-2 to construct the building
- Targeting GMP-2 award in late March/early April

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Innovation Campus - Academic Building (Note 2)	\$302.1	\$223.5	299,733																	

Designer: SmithGroup

Builder: Whiting-Turner

Dietrick Renovation (*& Quillen Family Spirit Plaza*)

Design-Bid-Build

BOV Authorized



Status:

- Contract awarded in March for improvements to Dietrick Hall (capital project) and outdoor plaza (non-capital project)
- Both components executed under single construction contract

Next Actions:

- Anticipated completion in January 2023

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22				FY23			FY24				FY25		
					Q3	Q4	Q1	Q2	Q3		Q4	Q1	Q2	Q3	Q4	Q1	Q2			
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960																

Designer: Hanbury

Builder: Branch Builds

Hitt Hall

CM at Risk

BOV Authorized



Status:

- GMP-1 (early site package) construction underway
- GMP-2 (building construction) awarded in March

Next Actions:

- Anticipated completion in February 2024

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		Q4	FY23		FY24		FY25						
					Q3	Q4	Q1	Q2		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
HITT Hall (Note 2)	\$85.0	\$65.5	101,000		<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>

New Upper Quad Residence Hall

CM at Risk
BOV Authorized



Status:

- Project on track (25% complete)

Next Actions:

- Anticipated completion in August 2023

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					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

Corps Leadership & Military Science Building

CM at Risk

BOV Authorized



Status:

- Project on track (36% complete)

Next Actions:

- Anticipated completion in July 2023

Legend: <div><div></div> Schematic Design Phase</div> <div><div></div> Preliminary Design Phase</div> <div><div></div> Working Drawings Phase</div> <div><div></div> Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449																

Designer: Clark - Nexsen

Builder: Vannoy

Livestock & Poultry Research Facilities (Phase I)

**Design-Bid-Build
State Authorized**



Poultry Facility



Swine Facility



Equine Facility



Beef Facility

Status:

- Construction underway on 4 of 6 bid packages:
Poultry: 77% complete Swine: 58% complete
Equine: 77% complete Beef: 70% complete

Next Actions:

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

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					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)

Data & Decisions Sciences Building

CM at Risk

State Authorized



Status:

- Project on track (63% complete)

Next Actions:

- Anticipated completion in April 2023

Legend: <div><div>Schematic Design Phase</div><div>Preliminary Design Phase</div><div>Working Drawings Phase</div><div>Construction Phase</div></div>																					
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021					CY 2022				CY 2023				CY 2024			
					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	
					FY21		FY22		FY23				FY24				FY25				
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Data & Decision Sciences Building (D&DS)	\$79.0	\$58.9	120,000																		

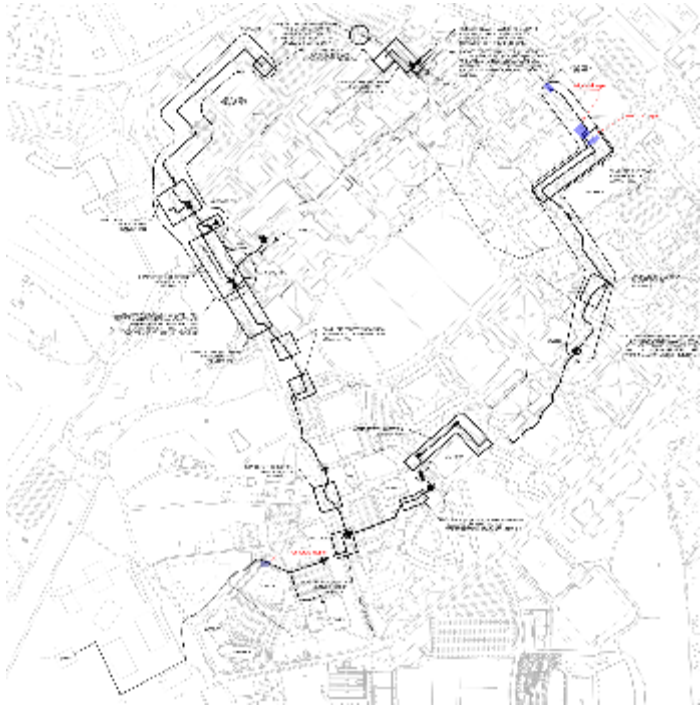
Designer: Moseley

Builder: Kjellstrom & Lee

Chiller Plant (Phase II)

Design-Bid-Build

State Authorized



Status:

- Project on track (99% complete)

Next Actions:

- Test and commission chilled water network in summer 2022

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Chiller Plant Phase II	\$42.9	\$32.7	N/A																	

Designer: AEI

Builder: Falconer

Gas-Fired Boiler at Central Steam Plant

Design-Bid-Build

BOV Authorized



Status:

- Project complete

Next Actions:

- Waiting DEQ issuance of final boiler permit for alternative fuel source (fuel oil)

Legend: <div><div>Schematic Design Phase</div><div>Preliminary Design Phase</div><div>Working Drawings Phase</div><div>Construction Phase</div></div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Gas-Fired Boiler at Central Steam Plant	\$8.2	\$3.8	N/A							WARRANTY										

Designer: AEI

Builder: Southern Air

Holden Hall Renovation

CM at Risk

State Authorized

Complete



Status:

- Project complete; move-in underway

Next Actions:

- Address punch list and close out contract

Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																					
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024				
					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	
					FY21		FY22		FY23		FY24		FY25								
					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																	

Designer: Moseley

Builder: WM Jordan

Creativity & Innovation District LLC

Design-Build

BOV Authorized



Status:

- Project complete



Next Actions:

- Address punch list items and close out contract

Legend: <div><div>Schematic Design Phase</div><div>Preliminary Design Phase</div><div>Working Drawings Phase</div><div>Construction Phase</div></div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23				FY24				FY25			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Creativity & Innovation District Living Learning Community	\$105.5	\$85.3	232,000				WARRANTY													

Designer: Hanbury

Builder: WM Jordan

Improve Kentland Facilities (Phase II)

Design-Bid-Build
State
Authorized

APR Building



MRL Building



BETR Building



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)

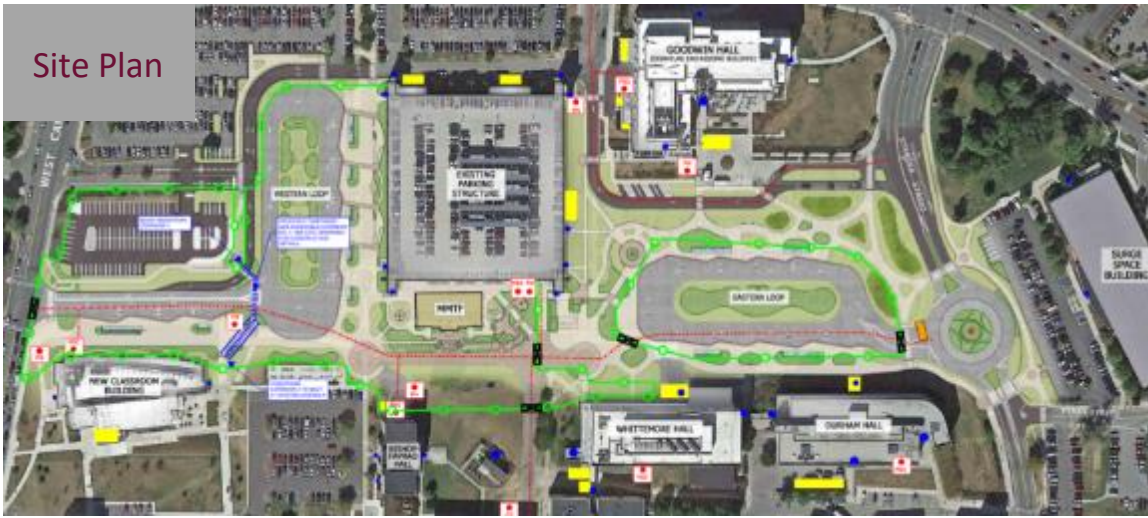
Legend: <div>Schematic Design Phase</div> <div>Preliminary Design Phase</div> <div>Working Drawings Phase</div> <div>Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					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

Multi-Modal Transit Facility

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



Status:

- Construction underway (25% complete)

Next Actions:

- Anticipated completion in April 2023

Legend: <div><div></div> Schematic Design Phase</div> <div><div></div> Preliminary Design Phase</div> <div><div></div> Working Drawings Phase</div> <div><div></div> Construction Phase</div>																				
Project Title	Total Project Budget (\$M)	Construction Budget (\$M) <i>(Construction contract value)</i>	New Const (GSF)	Renovation (GSF)	CY 2021				CY 2022				CY 2023				CY 2024			
					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
					FY21		FY22		FY23		FY24		FY25							
					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
- 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

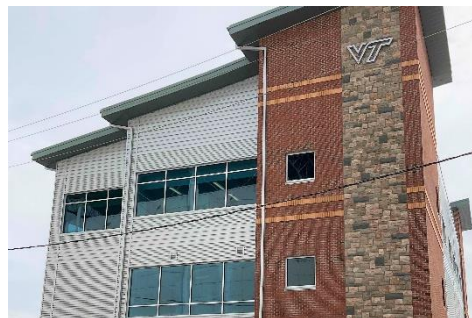
April 4, 2022



MAJOR PROJECT UPDATES

Steady Progress

- Virginia Seafood AREC
- Livestock and Poultry Research Facilities, Ph. 1
 - New Swine Center
 - New Beef Nutrition Facility and Hay Barn
 - New Broiler and Turkey Grow-out facilities
 - New Equine Facility and Equipment Storage Building
- Beef Barn Repairs
- SWAREC Exterior Repairs (4 buildings)
- EVAREC Experiment Building Repairs
- ESAREC Exterior Repairs (7 buildings)
- Alphin-Stuart Arena Footing Replacement



NEW VIRGINIA SEAFOOD AREC

Completion: March 2022

Vacate existing building: May 2022

Open House: November 30, 2022

Please join us!



LIVESTOCK AND POULTRY RESEARCH FACILITIES

Substantial Completion Schedules

Beef Nutrition Facility and Hay Barn: May 2022

Swine Center: June 2022

Equine Barn and Equipment Storage: May 2022

Turkey and Broiler Grow-out Facilities: April 2022

Furnishing and Equipment purchases in progress



ALPHIN-STUART ARENA FOOTING REPLACEMENT

- Increased safety for horses and riders
- Industry-leading materials used in top equine facilities
- Waterless and dust-free
 - Almost 9,000,000 gallons of water and 1,750 manhours of labor saved over 5 years
 - Simplifies maintenance
 - Cleaner facility
- Completed during Spring Break





MAJOR PROJECT UPDATES

Planning in progress or beginning soon:

- LPRF Final Bid Packages 5 and 6
- System-Wide AREC Improvements, Ph. 1
- Human and Agricultural Biosciences Building II
- Hampton Roads AREC future planning
- Maintenance Reserve Planning for 2022-2024



TECHNOLOGY AND CONNECTIVITY

- 1 Gbps Internet service available at 2 ARECs and ordered for 3 others
- RTK (Real Time Kinematic) scheduled for installation at 7 ARECs for spring 2022
- \$1.14M in network equipment for ARECs and VCE awaiting delivery and installation
- Trial project for field-level wireless communications is set to begin in late April/early May at one AREC

THANK YOU



PROJECT NAME		PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
CAPITAL PROJECTS							
Updates through March 31, 2022							
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	Fall 2020	All projects have reached substantial completion and have certificate of occupancy. Minor corrective work is ongoing and owner furnished equipment installation is in progress.	
				Snyder, CPPI			
New Virginia Seafood AREC Building	21,698 SF, 3-story bulding 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	March 2022	Project substantially complete and move-in is in progress.	
				E.T. Gresham			
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	Packages 1-4: Summer 2022	Packages 1-4 are under construction and making good progress. Packages 5-6: Design on hold pending funding appeal	
				Pkg 1: SIMCON Pkg 2: CPPI Pkg 3: CPPI Pkg 4: Clark Nexsen Pkg 5: TBD Pkg 6: TBD			
PROJECTS IN DESIGN							
(none)							
PROJECT INITIATION / PLANNING STAGE							
System-Wide AREC Improvements, Phase I	Renew and expand 50,660 GSF of aging and deteriorating AREC facilities - 12,160 SF of renovations and 38,500 SF of new construction storage, greenhouse, housing, research and outreach facilities - to update condition and expand capacity. 13 projects identified at 10 ARECs.	\$16,850,000	Capital Outlay	TBD	TBD	Capital budget request submitted to state for consideration in 2022 budget.	
				TBD			
Human and Agricultural Biosciences Building 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	Re-programming effort underway for a \$53.5 M construction target. Completion anticipated early summer 2022.	
				TBD			
6-Year Capital Outlay Plan for the 2022-24 biennium	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	TBD	TBD	TBD	Scope and budget development.	
				TBD			
NON-CAPITAL PROJECTS							
Updates through March 31, 2022							
PROJECTS COMPLETED SINCE LAST REPORT							
<u>Minor Projects (<\$25,000 each):</u> Alson H. Smith Jr. AREC Greenhouse Controls Upgrade Alson H. Smith Jr. AREC Office and Lab Electrical Upgrade Eastern Shore AREC Headhouse Boiler Replacement Eastern Shore AREC Fiber Optic Installation Hampton Roads AREC Fiber Optic Installation Shenandoah Valley AREC Exterior Building Maintenance	Replacement and modernization of greenhouse environmental controls Replacement of elec. panel and installation of add'l emergency circuits for new lab equipment Replace leaking boiler in Headhouse Install underground fiber optic lines to extend network service to additional buildings (2 residences) Install underground fiber optic lines to extend network service to additional buildings (2 res., 1 office) Exterior painting of 3 farm buildings	\$97,000	CALS / VAES	-	Various	Complete	
				Multiple			
Turkey Center Service Building 603 Roof and Misc. Repairs	After leaks were discovered in the roof above new restroom renovation project, building condition assessment determined more extensive work was necessary to preserve building including new roof, gutters, windows, doors, and other misc. repairs	\$151,000	Maintenance Reserve	HDH	November 2021	Roof replacement in progress and on schedule.	
				SRC			

PROJECT NAME		PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
	Hampton Roads AREC Repair Bulkhead & Pump House	Existing bulkhead, which protects the freshwater intake, pump system and pump house has deteriorated beyond repair. Project will replace wooden bulkhead with vinyl, and replace deteriorated door and roof on pump house.	\$68,000	Maintenance Reserve	Mattern and Craig	Winter 2021	Construction underway.
					Colin Marine		
	Alphin-Stuart Arena Footing Replacement	Existing footing is beyond useful life and in need of replacement. Materials being upgraded for enhanced performance, ease of maintenance, and greater sustainability.	\$176,000	CALS	-	Spring 2022	Work is complete.
					Footing First, Tractor Works		
PROJECTS IN CONSTRUCTION							
	<u>Minor Projects (<\$25,000 each):</u> Alson H. Smith Jr. AREC New Hoophouse Middleburg AREC Hot Walker Installation Reynolds Homestead FRRC Exterior Repairs Eastern Va. AREC Lighting Upgrades	Construct a 20' x 48' gable high tunnel hoophouse for horticultural research projects. Site prep and electrical hookup for installation of new horse exercising research equipment. Repair deteriorating eaves and trim on main AREC building. Upgrade lighting in Main Building and Scott Farm Shop Buildings to LED.	\$37,000	CALS / VAES	-	Ongoing	In Progress
					Multiple		
	AREC Exterior Signage Upgrades	Installation of 2 new exterior signs at each AREC with refreshed design to match current branding.	\$81,000	CALS / VAES	-	TBD	Signage instation complete at Tidewater, Southwest Virginia, Alson H. Smith Jr., Eastern Virginia, Middleburg, and Shenandoah Valley ARECs. Final design and fabrication pending at others.
					Westview		
	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	Summer 2022	Construction in progress. Roofing completion delayed due to change in roof materials. Interior repairs to be completed after spring semester.
					Thor, SRC		
	Southwest Virginia AREC - Exterior Building Repairs	Repair roof, siding and door damage on Tobacco Barns 1 (0749) and 2 (0747), Cattle Barn #5 (0741) and Workshop/Machinery Shed (0742).	\$583,000	Maintenance Reserve	5 Design	Spring 2022	Tobacco Barns #1 and #2 are complete. Cattle Barn is in progress, to be followed by Machine Shed.
					Lily Construction		
	Washington Street Greenhouse Complex Renovations	Repairs and upgrades to modernize aging controlled growth environments.	\$90,000	CALS / VAES / Maintenance Reserve	VT Facilities Engineering	TBD	Repairs to electrical system underway. Repairs to venting system waiting for materials.
					Bell Electric, VT HVAC Shop		
	Reynolds Homestead FRRC - Exterior Repairs	Main Building (1030) needs window replacement, repairs of rotting soffit/fascia/flashing, deck repair and bathroom upgrade. Lath House (1030C) roof and trusses need repair.	\$30,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2023.
					TBD		
PROJECTS IN DESIGN							
	<u>Minor Projects (<\$25,000) each:</u> Tidewater AREC Peanut Storage Shed Southwest Virginia AREC Tobacco Barn #3 Demolition	960 square foot prefabricated structure for field storage of harvested peanuts. Demolition of existing barn no longer needed.	\$37,000	CALS / VAES	-	Various	In Progress
					Multiple		
	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.	\$180,000	Maintenance Reserve	Structures Group	TBD	Project is out for bid.
					TBD		
	Eastern Shore AREC - Exterior Building Repairs	Multiple buildings are in need of exterior repairs. Head house (1214) and Shop Building (1215) is in need of structural repairs to walls and repointing. Implement Shed (1216), Sweet Potato Storage (1217), Produce Grading (1218), and Insectary (1220) need exterior waterproofing, door repair, pointing repairs and gutters.	\$439,000	Maintenance Reserve	Structures Group	TBD	Project is out for bid.
					TBD		
	Southern Piedmont AREC - Packhouse Restroom Repairs	Packhouse (0897) restroom is in need of plumping repairs and upgrade to be reconfigured for ADA access. Packhouse roof is leaking and needs repair.	\$122,000	Maintenance Reserve	Thompson & Litton	TBD	Design is in progress.
					TBD		

PROJECT NAME		PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS	
PROJECT INITIATION / PLANNING STAGE	Urban Horticulture Center LED Lighting Retrofit	Replace failing fixtures to restore operational effectiveness and realize energy savings (2 buildings)	TBD	Energy Management	In house	TBD	Bidding is in progress	
					TBD			
	Kentland Farm Dairy Complex LED Lighting Retrofit	Replace failing fixtures to restore operational effectiveness and realize energy savings (5 buildings).	TBD	Energy Management / CALS	In house	TBD	Bidding is in progress	
					TBD			
	Heth Farm Shed and Silo Demolition	Demolish two structures that are currently unsafe and operationally unnecessary	TBD	CALS	TBD	TBD	Determining permitting requirements.	
					TBD			
	Prices Fork Quarantine Lab Emergency Generator	Installation of new emergency backup generator to comply with regulatory requirements	TBD	CALS	Gibson Engineering	TBD	Desgin is in progress.	
					TBD			
	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	Contractor quote received. Funding options being evaluated.	
					TBD			
	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 1.5-inch water line.	TBD	Maintenance Reserve	TBD	TBD	City tap fee received. Obtaining quote for water line installation on private side of meter.	
					TBD			
	Alphin-Stuart Arena Roof Drain repair	Repair failing roof drains.	TBD	Maintenance Reserve	TBD	TBD	Purchase orders being issued.	
					TBD			
	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	Scope review with University Building Official (UBO) is necessary to resolve code requirements and funding eligibility. Project deferred to 2023.	
					TBD			
PROJECT INITIATION / PLANNING STAGE								
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	TBD	Capital and operational costs for project under review internally.	
					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			
	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.	\$93,000	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			

PROJECT NAME		PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS	
College of Agriculture Life Sciences (CALS) BUILDINGS AND GROUNDS COMMITTEE	Projects Status Report	Moore Farm Shed 0508 Repairs	TBD	Maintenance Reserve	TBD	TBD	Scope and budget development.	
		TBD						
		Alson H. Smith AREC - Repair paving and parking	\$56,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2023.	
		TBD						
		Middleburg AREC - Exterior Repairs	\$158,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2022.	
		TBD						
		Shenandoah Valley AREC - Repair/Replace Sheep Barn	\$76,000	Maintenance Reserve	TBD	TBD	Scope and budget development.	
		TBD						
		Shenandoah Valley AREC - Renovate Carriage House	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						
		Southern Piedmont AREC - Building Repairs	TBD	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction planned in FY 2022.	
		TBD						
		Smithfield Equine Complex	TBD	Private	TBD	TBD	Scope and budget development.	
		TBD						
		Smithfield Equine Classroom Renovations, Phase 2	\$110,000	Maintenance Reserve, CALS	TBD	TBD	Scope and budget development.	
		TBD						
INFORMATION TECHNOLOGY (IT) EVALUTATION & PROJECTS								
Updates through March 31, 2022. New information is in bold.								
College of Agriculture Life Sciences (CALS) BUILDINGS AND GROUNDS COMMITTEE		Projects Status Report	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.	\$34,000	CALS / VAES	CALS IT	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.
	Lee Hartman and Sons							

PROJECT NAME		PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
PROJECTS IN PROGRESS							
PROJECTS IN PROGRESS	Bandwidth and Internet Connectivity	<p><u>ARECs</u>: All ARECs have 200 Mb service except Shenandoah Valley (50 Mb), Southwest Virginia (10 Mb), Reynolds Homestead (2 Mb), Hampton Roads (50 Mb), Eastern Shore (30 Mb) and Virginia Seafood (30 Mb). Northern Piedmont Center has a 50 Mb cable connection. Goal is to upgrade all to at least 200 Mb. 200 Mb service for Hampton Roads has been ordered. Eastern Shore has been upgraded to 100 Mb service. Reynolds Homestead is in the process of having an order placed for 100 Mb service. A quote has been recieved for 100 Mb service at Southwest Virginia. 1 Gbps service is now available at Alson H Smith, and Hampton Roads ARECs, and has been ordered for Southern Piedmont, and Tidewater. Eastern Shore AREC will be upgraded to 200 Mbps.</p> <p><u>Campus Farm locations</u>: Kentland Farm has adequate 200 Mb service. Moore Farm and Urban Horticulture Center share a 50 Mb cable service which is currently adequate. The CSES Research Farm (Agronomy Farm) also has a 50 Mb cable connection. Prices Fork Research Center has a 50 Mb fiber connection. Turkey Farm cable service is being upgraded from 50 Mb to 200 Mb during LPRF phase 1, no additional cost. Upgrades are needed to provide sufficient bandwidth for existing video-based research and future initiatives after LPRF phase 1 construction. Turfgrass 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 1 Gbps direct fiber to campus order has been placed for Kentland Farm.</p>	\$245,000 Annually	CALS / VAES	CALS IT	Ongoing	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.
					Various		
	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.	\$75,000	CALS / VAES	CALS IT	Ongoing	VOIP conversion projects have been completed at 7 of the 11 ARECs. Remaining locations include Hampton Roads, Reynolds Homestead, and Southwest Virginia ARECs where the existing telephone service has been adequate. The Virginia Seafood AREC will be converted to VOIP with the completion of their new building.
					Division of IT		
	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.	\$238,000	CALS / VAES	CALS IT	Spring 2022	Most installations have been completed with some minor tweaking of installs remaining.
					Lee Hartman and Sons		
	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 replace 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 spaces.	\$1,140,000	CALS/VAES	CALS IT	TBD	Orders for equipment have been placed.
	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.	\$213,000	CALS/VAES	CALS IT John Deere Trimble	Summer 2022	Orders for equipment have been placed.
	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.	\$90,000	CALS/VAES	CALS IT Dell JMA Pierson Wireless John Deere	TBD	Funding has been authorized.
PROJECTS IN PROGRESS	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.	TBD	TBD	TBD	TBD	Funding needs and sources are being resolved.
					TBD		

UPDATE ON PARKING AND TRANSPORTATION

BOARD OF VISITORS - APRIL 2022

LYNSAY BELSHE, VICE PRESIDENT, ENTERPRISE
ADMINISTRATIVE AND BUSINESS SERVICES

JERI BAKER, SENIOR DIRECTOR, TRANSPORTATION
SERVICES



OVERVIEW: TRANSPORTATION SERVICES

Attachment E



PARKING SERVICES

- Manages nearly 16,000 parking spaces on the Blacksburg campus
- Serves roughly 33,000 students, 13,000 employees, and 60,000 alumni, parents, and community members per year



FLEET SERVICES

- Manages university rental fleet of approximately 150 state vehicles
- Employees and students can reserve vehicles for business purposes on a daily or long-term basis



ALTERNATIVE TRANSPORTATION

Portfolio includes:

- Bike Hub, Heads Up Hokies, Blacksburg Transit, Zipcar, Mass Transit, Ride Solutions, and Roam NRV Bike Share

AIR TRANSPORTATION SERVICES

- Provides air transportation for Virginia Tech employees, or employees of university-related corporations on university business
- Hanger located at the Virginia Tech Montgomery Executive Airport and is staffed by five pilots and an operations manager
- Virginia Tech owns two Cessna Citation jets (HokieBirds)





PARKING SERVICES' CURRENT STATE

PARKING SERVICES

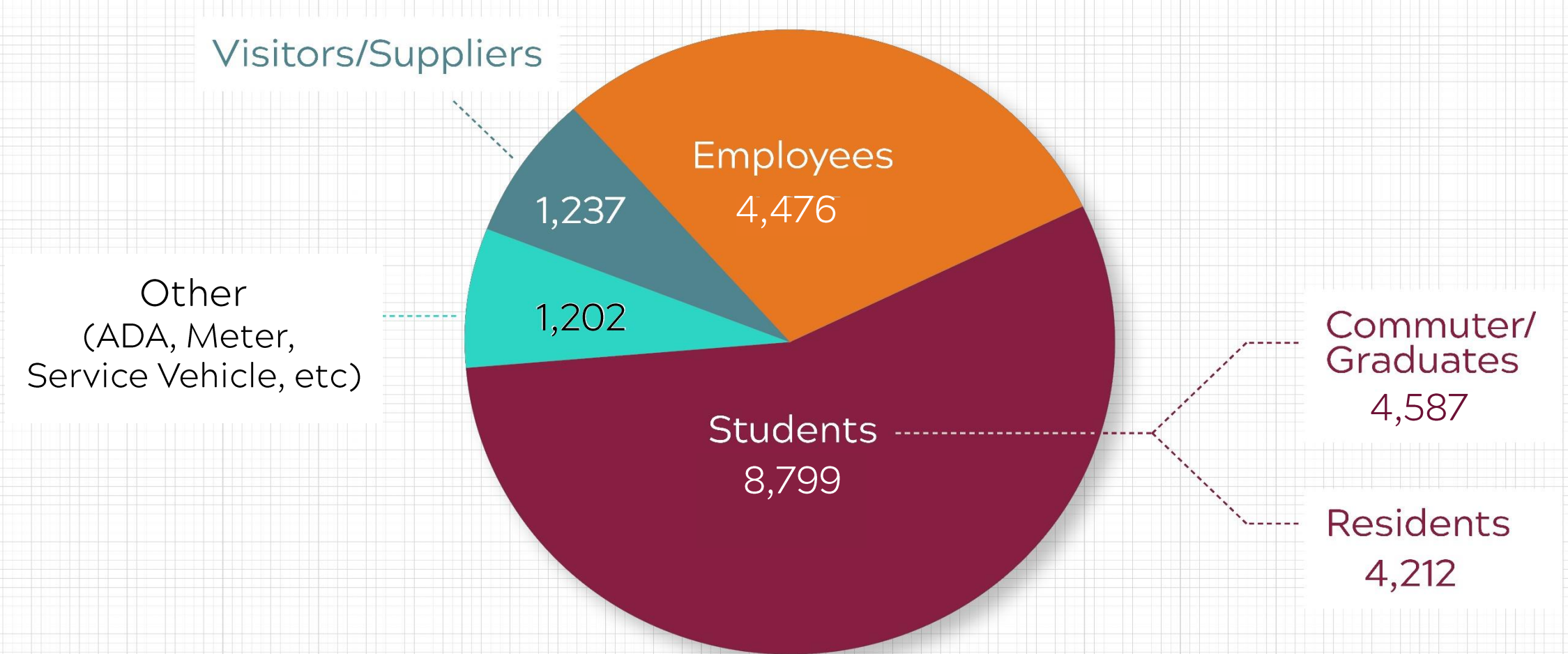
- **University Auxiliary Unit:** 100% self-supporting through self generated revenue.
- **Equitable** - user based system, everyone who uses system supports financially
- **Affordability and accessibility** is a priority with remote lot options/benchmarking
- **Customer focus mindset**
- **Continuous Improvement**
- **Approximately 16,000 current parking spaces**

Attachment E



PARKING SPACES AT VIRGINIA TECH'S BLACKSBURG CAMPUS

Attachment E



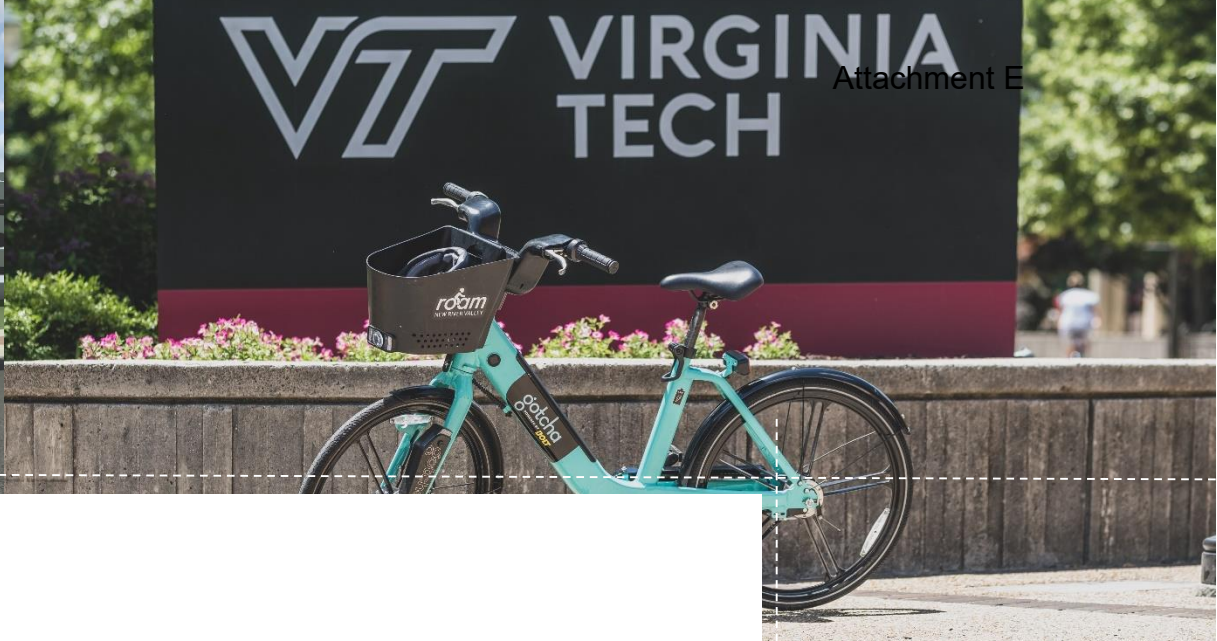
GRAND TOTAL 15,714

Estimated daily surplus of over 1,000 spaces on campus

PARKING SERVICES

- Recent initiatives:
 - **Visitor Parking:** began charging visitors in Summer of 2020 to share cost of parking to all users.
 - **ParkMobile:** phone application that allows customers to easily pay-to-park by the hour or day.
 - **North End Center garage is a 24/7 gated facility:** ensures all patrons are sharing in the cost of the garage.
 - **Extending parking enforcement hours to 10 p.m.:** maintains a controlled campus to protect spaces that permit holders have paid to use for late afternoon and evening purposes.





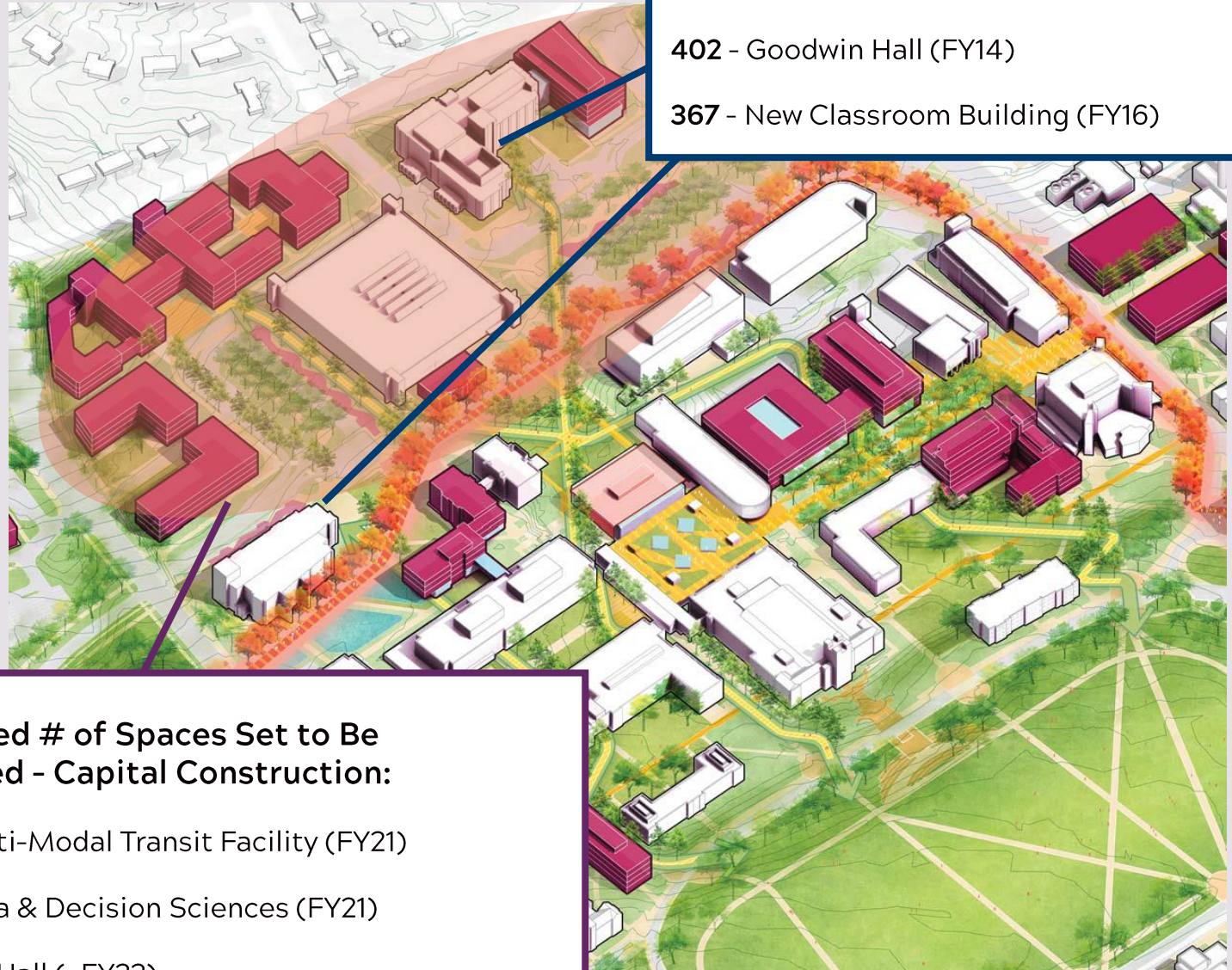
LOOKING AHEAD



PARKING DISPLACEMENT: CAPITAL CONSTRUCTION

- Over the past year and continuing over next several years, multiple new facilities and major renovations to existing buildings are set to take place throughout the North Academic District.
- This construction has, and will continue to, displace a substantial amount of parking in the campus core.

NORTH ACADEMIC DISTRICT



of Spaces Displaced - Completed Capital Construction

402 - Goodwin Hall (FY14)

367 - New Classroom Building (FY16)

Estimated # of Spaces Set to Be Displaced - Capital Construction:

760 - Multi-Modal Transit Facility (FY21)

460 - Data & Decision Sciences (FY21)

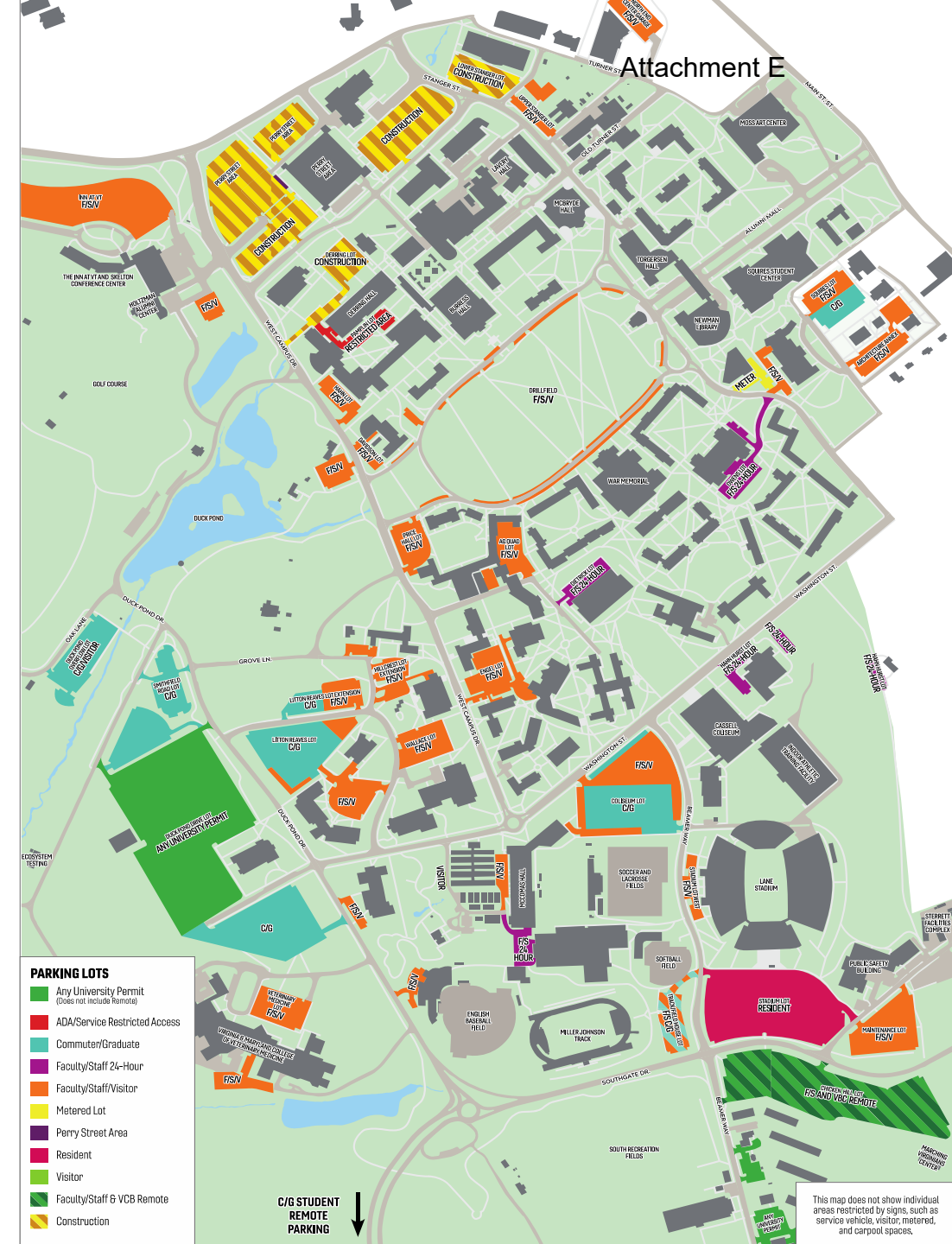
86 - HITT Hall (~FY22)

384 - Undergraduate Science Lab Building (~FY22)

PARKING & TRANSPORTATION MASTER PLAN

- 2016 Parking and Transportation Master Plan and the university wide Campus Master Plan of 2018 set guideposts for the future of parking and transportation on campus.
- As campus growth continues to disrupt parking across campus, the effective reassignment of parking will require consistent monitoring and adjustments.
- A tiered permit pricing system should be implemented on campus to help reduce traffic issues and frustration among users in locating an available space.
- Parking needs to be reallocated to effectively support future demand.

Parking lots
by type on the
Blacksburg
campus



STRATEGIES TO HELP OFFSET PARKING DISPLACEMENT

- Shift towards periphery parking for majority of Commuter/Graduates.
- Continue to move displaced Faculty/Staff parking to Perry Street Garage.
- Adjust quantity of student Perry Street Lots permits sold.
- Continue to drive strong campus community participation in alternative transportation methods, including BT, walking, biking, carpool, vanpool.



VIRGINIA TECH CLIMATE ACTION COMMITMENT AND TRANSPORTATION SERVICES

- **Goal 9:** Reduce single-occupancy-vehicle commuting to campus by 20 percent by 2025 and reduce transportation-related GHG emissions by 40 percent by 2030.
- Build upon existing opportunities:
 - **Blacksburg Transit:** Strong partnership, ridership, fleet upgrades.
 - **Multi-Modal Transit Facility (MMTF)** - construction underway.
 - **Future of Work** - hybrid work arrangements and commuting options (ParkMobile, etc.).



IN CLOSING

CURRENT STATE:

- 100% self-supporting Auxiliary unit
- Continue to be impacted by capital projects within North Academic District
- Affordability and accessibility is a priority with remote lot options
- Customer focus mindset, Continuous Improvement
- Over 1,000 available spaces each day

LOOKING AHEAD:

- Multi-Modal Transit Facility (MMTF)
- Continued focus on alternative transportation programs
- Movement toward garage parking
- Support the university mission

CONNECT WITH TRANSPORTATION SERVICES

E-mail: parking@vt.edu

Phone: (540) 231-3200

Website: parking.vt.edu

Social Media:

Twitter: @GetAroundVT

Instagram: @GetAroundVT

Facebook: Virginia Tech
Transportation Services

Tik Tok: @VTParkingFacilities



TRANSPORTATION SERVICES
VIRGINIA TECH.



OVERVIEW OF FACILITIES ACCESSIBILITY PROJECTS

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

KELLY OAKS, PHD
ASSOCIATE VICE PRESIDENT FOR EQUITY AND ACCESSIBILITY

APRIL 4, 2022

AGENDA

- Facilities Accessibility Stakeholders
- Sample Projects Completed
- Projects In Design
- Other Facilities Accessibility Initiatives

STAKEHOLDERS

- Campus Accessibility Working Group
- Office for Equity and Accessibility
- Campus Planning, Infrastructure and Facilities : Office of University Planning, Facilities Operations, Pathways Enhancement Crew
- Student Affairs
- Finance

April 16 Memorial

Accessible Path

Project Summary

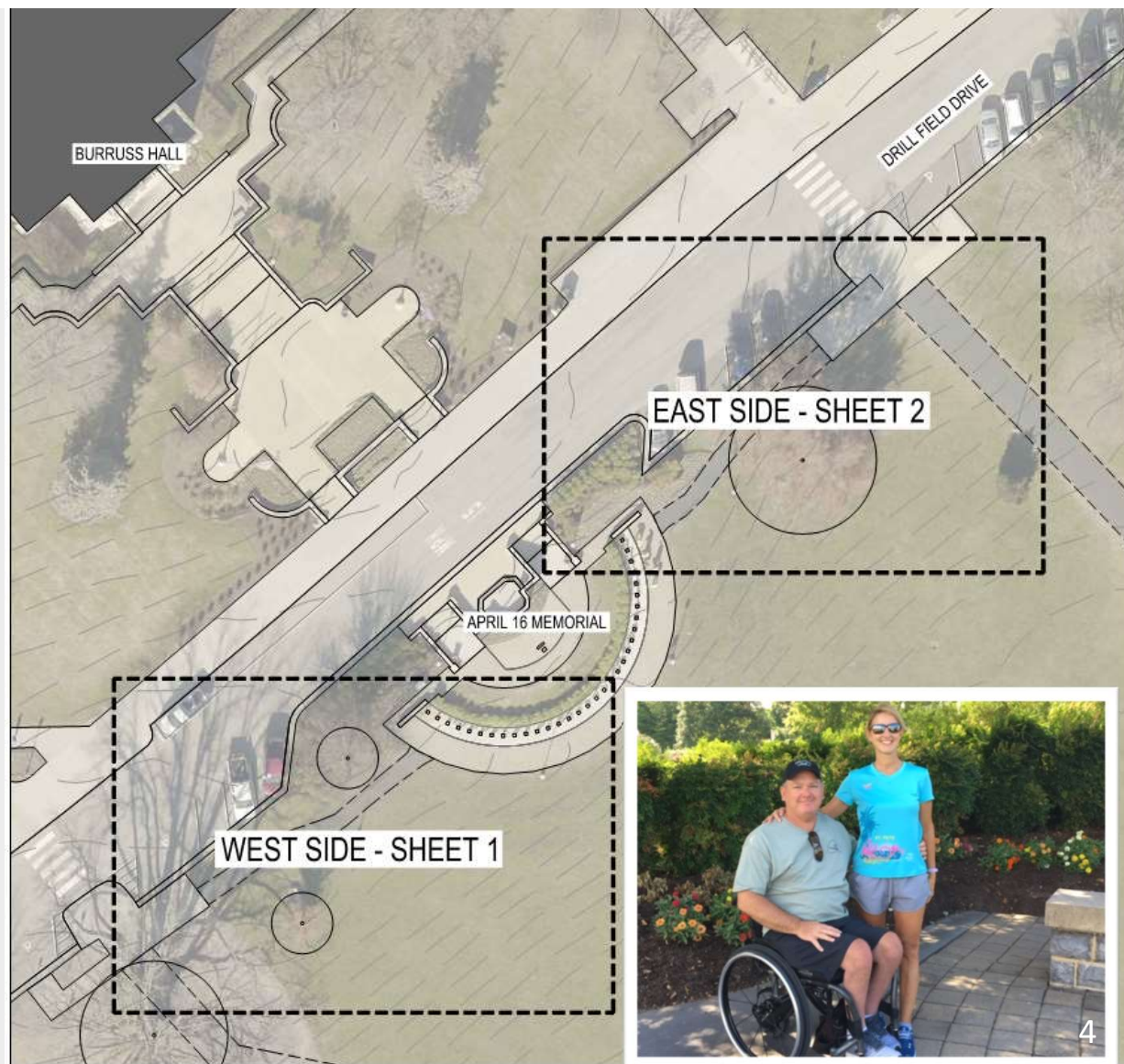
Provide a fully accessible path around the memorial.

Project Highlights

- Widened pathways and implemented continuous sloping pathways, created new accessible entry points into the memorial garden upper area.
- Installed new accessible bench seating around the memorial.
- Relocated ADA parking spaces in closer proximity to the memorial.
- Installed accompanying curb cuts for new ADA parking spaces.

Project Status

Complete



Patton Hall Entry

Ramp Replacement

Project Summary

Accessibility improvements to Patton Hall entryway

Project Highlights

Ramp was demolished and reconstructed at a compliant slope. Included demolition of adjacent knee wall.

Project Status

Complete



Vet Med “I” Lot Route

Accessible Path

Project Summary

Provide a fully accessible path from the “I” Lot to Vet Med

Project Highlights

- Created a new ADA-compliant path connecting existing I-Lot to Vet Med facility.
- Pathway lit to allow for safe 24-hour accessibility.
- Pedestrian crosswalk lighting was upgraded for increased safety.

Project Status

Complete



Whittemore Hall Entrances

Design & Construct Accessible Entry

Project Summary

Create an accessible entry

Project Highlights

Construct an ADA compliant ramp on the southwest side of Whittemore.

Project Status

Under Construction



Squires Newman Library Pathway

Design & Construct Accessible Pathway

Project Summary

Create an accessible pathway connecting Alumni Mall and Graduate Life Center side of Squires Student Center.

Project Highlights

Construct a ramp with handrail, provide necessary painting and landscaping, relocate bike rack and install signage.

Project Status

Under Construction



President's Quad

Accessibility Re-design and Phase I Construction

Project Summary

Resolve ADA violations in a way that results in a desirable and effective space

Project Highlights

- Create an overall plan for the quad, to the schematic design level, indicating overall pedestrian circulation and amenity placement.
- Design components of the plan that will resolve ADA violations (e.g., relocating picnic areas to a more effective and desirable location); effort will result in a “shovel-ready” design for individual components.
- Relocate picnic areas and/or construct new pathways in phases based on total funding available.

Project Status

Schematic Design Complete



Upper Quad - Drillfield

Feasibility Study and Phase I Construction

Project Summary

Evaluate opportunities to provide ADA-compliant access to the Upper Quad from the Drillfield

Project Highlights

- Contract with a landscape architect to evaluate ramp opportunities between the College of Liberal Arts and Human Sciences Building and Torgersen Hall.
- Contract with landscape architect will include a sub-consultant that can evaluate ADA needs to ensure 24-hour access through Major Williams Hall to highest level of Upper Quad.
- Construct ramp and other necessary elements, if feasibility study identifies a viable conceptual design from the Drillfield side to in front of Major Williams Hall.
- Make necessary modifications to Major Williams Hall, identified in feasibility study, to allow for 24-hour access through the building to the highest level of the Upper Quad.

Project Status

Schematic Design Complete; Phase I of 24/7 access thru Major Williams is under construction



FACILITIES ACCESSIBILITY INITIATIVES

Pathways Enhancement Crew (PEC)

- Established Summer of 2021
- 3 person crew which focuses on installing ramps and curb cuts, upgrading deteriorated sidewalks, addressing barriers, and assisting with other architectural/physical access that are not ADA compliant
- Already completed repairs at Patton, Goodwin, Fralin, Wallace, Derring and along the Drillfield

Hired additional ADA Architect

- Provides both Capital and Renovation project reviews and recommendations
- Prioritizes work for the PEC and renovation projects
- Identifies accessibility improvements for existing buildings
- Investigates instances of non-compliance and facilitates resolution

Three vertical lines on the left side of the slide: a solid dark red line, a dashed grey line, and a solid orange line.

DISCUSSION OF STRATEGIC FACILITIES INVESTMENT PROGRAMS

CHRIS KIWUS

APRIL 4, 2022

DISCUSSION OF STRATEGIC FACILITIES INVESTMENT PROGRAMS

Attachment E

