BOARD OF VISITORS BUILDINGS AND GROUNDS COMMITTEE MINUTES

August 25, 2020

The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met on Tuesday, August 25, 2020, at 9:30 a.m. A quorum of the Buildings and Grounds Committee was present.

Buildings and Grounds Committee Members Present: Abs

Absent:

Mr. Horacio Valeiras (Rector) Mr. C.T. Hill (Chair) Ms. Tish Long (Vice Rector) Ms. Sharon Brickhouse Martin Ms. Shelly Butler Barlow Mr. Mehul Sanghani

Other Board Members Present:

Ms. Carrie Chenery Ms. Greta Harris

Constituent Representatives Present:

Ms. Camellia Pastore (Undergraduate Student Representative)

Also present were the following Virginia Tech staff members:

President Timothy Sands, Ms. Kim O'Rourke (Secretary to the Board), Mr. Mac Babb, Mr. Van Coble, Mr. Corey Earles, Mr. Kevin Foust, Dr. Lance Franklin, Major General Randal Fullhart, Ms. Elaine Gall, Mr. Mark Gess, Dr. Alan Grant, Mr. Tony Haga, Ms. Kay Heidbreder, Mr. Patrick Hilt, Ms. Mary-Ann Ibeziako, Dr. Frances Keene, Dr. Chris Kiwus, Mr. Brian Kubecki, Dr. Saied Mostaghimi, Ms. Liza Morris, Ms. Heidi Myers, Dr. Ken Smith, Mr. Rick Sparks, Mr. Dwyn Taylor, Mr. Jon Clark Teglas

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Open Session

- 1. Welcome: The Committee Chair convened the meeting and provided welcoming remarks. Dr. Chris Kiwus introduced university staff members in attendance who work closely with the Committee.
- 2. Consent Agenda: The Committee approved and accepted the items listed on the Consent Agenda:

- a. **Approval of the Minutes from the May 14, 2020 Meeting:** The Committee approved the minutes from the May 14, 2020 meeting.
- b. **Approval of the Minutes from the May 27, 2020 Meeting:** The Committee approved the minutes from the May 27, 2020 meeting.
- c. Resolution on the Demolition of a University Greenhouse: The Committee approved a resolution to demolish a university Greenhouse (Building No. 0433C). This facility is a 1,014 gross square foot frame and fiberglass plant pathology greenhouse. It is located in the Glade Road area of Virginia Tech's Blacksburg campus. Constructed in 1965, the building was used as a greenhouse, and then for agricultural service storage. Currently vacant, the building suffered wind damage and has fallen into disrepair. The university seeks to demolish the structure to remove safety and environmental concerns. This structure no longer supports the research mission of the university and its demolition will improve the campus environment as well as advance the future Glade Road portion of The university will also obtain approval from the the Master Plan. Department of Historic Resources and the Art and Architecture Review Board prior to the demolition of this structure.
- d. Resolution to Amend the Guidelines for Projects under the Public-Private Education Facilities and Infrastructure Act of 2002: The Committee approved a resolution revising the Guidelines for Projects under the Public-Private Education Facilities and Infrastructure Act ("PPEA") of 2002. These revisions update titles and format consistency.
- e. Resolution for Approval of an Update to the Capital Construction Delivery Method Approval Process: The Committee approved a resolution updating the university's capital construction delivery method approval process.
- * f. **Resolution on Appointment to the Virginia Tech Montgomery Regional Airport Authority:** The Committee approved a resolution appointing a joint, at-large member to the Virginia Tech/Montgomery Regional Airport Authority to replace the current at-large member who is retiring.
 - g. Acceptance of the Capital Project Status Report: The Committee accepted the quarterly capital project status report. At the request of the Committee Chair, Dr. Chris Kiwus offered a summary update on the following specific capital projects: Student Wellness Improvements, Dietrick First Floor Enclosure and Spirit Plaza, Hitt Hall/New Dining, and Global Business and Analytics Complex Residence Halls.

- **3.** Panel Discussion on COVID-19 Buildings and Grounds Considerations: The Committee received a comprehensive update on preparations to mitigate impacts of COVID-19 to the physical campus.
 - Dr. Chris Kiwus moderated the panel and centered the discussion around strategic and tactical actions undertaken to create and maintain healthy environments for the entire campus community.
 - Dr. Lance Franklin spoke on health and safety standards, guidelines, and best practices foundational to the university's efforts.
 - Mr. Rick Sparks discussed impacts, planning, and actions associated with classrooms and other academic spaces for the fall semester.
 - Dr. Frances Keene offered details on modifications made to on-campus housing and residence life, dining services, student centers, and recreational sports.
 - Ms. Liza Morris provided context on how the pandemic might impact the built environment moving forward.
- 4. Update on Agricultural Facilities Planning and Construction: The Committee received an update from Alan Grant, Dean of the College of Agriculture and Life Sciences, on agricultural facilities planning and construction.
- * 5. Resolution on the Partial Demolition of the Art and Design Learning Center: The Committee approved a resolution to partially demolish the Art and Design Learning Center (Building No. 0196). This facility is a 22,532 gross square foot academic building. Constructed in 1931, the brick and concrete building was originally a mechanical engineering laboratory. The basement and sub-structure portion of the facility houses the Boiler Plant water treatment facility; this portion of the building will remain intact and in use. The university seeks to partially demolish the structure to allow for the growth, expansion, and support of the university's Corps of Cadets and ROTC programs. The university will also obtain approval from the Department of Historic Resources and the Art and Architecture Review Board prior to the demolition of this structure.
- * 6. Resolution on the Demolition of Femoyer Hall: The Committee approved a resolution to demolish Femoyer Hall (Building No. 0013). This facility is a 35,500 gross square foot academic building. Constructed in 1949, the brick building originally served as a residence hall. When the facility became obsolete as a residence hall, it was transitioned to academic and program office space through minimal renovations. Overall, the structure has received very few improvements since original construction and without major renovation will continue to require significant, sustained maintenance investment. The university seeks to demolish the structure and replace it with a residential facility. The university will also obtain approval from the Department of Historic Resources and the Art and Architecture Review Board prior to the demolition of this structure.
 - 7. Design Review of the Data and Decision Sciences Building: The Committee approved the design review for the Data and Decision Sciences Building. The

building will directly support the commonwealth's Technology Talent Pipeline initiative for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries, providing 115,600 gross square feet of instructional, departmental, student study, and support space. Specialty spaces include the Deloitte Analytics and Trading Lab and a multi-story common area which will serve as a gathering space and as a connector to the future Pamplin College of Business.

8. Future Agenda Items and Closing Remarks: The Committee discussed potential topics for inclusion on future meeting agendas. Anticipated items include the sustainability annual report, the Clery report, and other business as appropriate.

There being no further business, the meeting adjourned at 11:00 a.m.

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Joint Open Session with the Finance and Resource Management Committee

The Buildings and Grounds Committee and Finance and Resource Management Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met in Joint Open Session on Tuesday, August 25, 2020, at 11:00 a.m. A quorum was present.

Joint Committee Members Present:

Absent:

Mr. Horacio Valeiras (Rector) Ms. Tish Long (Vice Rector) Mr. Ed Baine Mr. C.T. Hill Ms. Sharon Brickhouse Martin Ms. Shelly Butler Barlow Ms. Anna James Mr. Mehul Sanghani Mr. Preston White

Other Board Members Present:

Ms. Carrie Chenery Ms. Greta Harris Dr. Melissa Nelson

Constituent Representatives Present:

Dr. Eric Kaufman (Faculty Representative) Ms. Camellia Pastore (Undergraduate Student Representative) Ms. Tamarah Smith (Staff Representative) Ms. Sabrina Sturgeon (Graduate Student Representative Also present were the following Virginia Tech staff members:

President Timothy Sands, Ms. Kim O'Rourke (Secretary to the Board), Ms. Callan Bartel, Mr. Bob Broyden, Dr. Cyril Clarke, Mr. Al Cooper, Mr. John Cusimano, Mr. Corey Earles, Mr. Kevin Foust, Ms. Kay Heidbreder, Mr. Tim Hodge, Dr. Chris Kiwus, Ms. Nancy Meacham, Mr. Ken Miller, Ms. Liza Morris, Mr. Justin Noble, Mr. Mark Owczarski, Mr. Charlie Phlegar, Dr. Dwayne Pinkney, Dr. Menah Pratt-Clarke, Mr. Dwyn Taylor, Mr. Jon Clark Teglas, Ms. Tracy Vosburgh

Also present were the following guests: Mr. Henri Gendreau

* 1. Approval of Resolution for Temporary Supplement for Planning the Undergraduate Science Laboratory Building: The Committees reviewed for approval a resolution for a temporary supplement for planning the Undergraduate Science Laboratory Building. The university infused \$3.084 million of temporary nongeneral funds to complete preliminary designs in September 2017; these designs were completed and the funds were exhausted by January 2020. During fiscal year 2020, the university infused \$2.432 million of additional temporary funds to ensure continuity of the A/E design team and to complete working drawings, bringing the adjusted total budget to complete planning to \$5.516 million. The state has requested that Virginia Tech hold the \$2.432 million supplement authorization locally using its restructuring authority. The entire \$5.516 million of temporary resources will be reimbursed by General Fund resources when the state appropriates construction funding for this project. This request is for a capital planning authorization to hold a \$2.432 million supplement to adjust the temporary budget and funding for the Undergraduate Science Laboratory Building project to \$5.516 million. The Committees recommended the Resolution for Temporary Supplement for Planning the Undergraduate Science Laboratory Building to the full Board for approval.

There being no further business, the meeting adjourned at 11:24 a.m.

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* Requires full Board approval.

Welcome

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

The Buildings and Grounds Committee Chair will open with welcoming remarks.

Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

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

Consent Agenda

- a. Approval of the Minutes from the May 14, 2020 Meeting
- b. Approval of the Minutes from the May 27, 2020 Meeting
- * c. Resolution on the Demolition of a University Greenhouse
- * d. Resolution to Amend the Guidelines for Projects under the Public-Private Education Facilities and Infrastructure Act (PPEA) of 2002
- * e. Resolution for Approval of an Update to the Capital Construction Delivery Method Approval Process
- * f. Resolution on Appointment to the Virginia Tech Montgomery Regional Airport Authority
 - g. Acceptance of the Capital Project Status Report

* Requires full Board approval.

BOARD OF VISITORS BUILDINGS AND GROUNDS COMMITTEE MINUTES

May 14, 2020

The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met on Thursday, May 14, 2020, at 3:00 p.m. On this date, the Commonwealth of Virginia was operating under a state of emergency as declared by Governor Northam due to the COVID-19 pandemic. This was an entirely electronic meeting held via Zoom videoconference to conduct regular business as permitted by legislation passed by the General Assembly on April 22, 2020, and signed into law by Governor Northam. A quorum of the Buildings and Grounds Committee was present on the videoconference.

Buildings and Grounds Committee Members Present: Absent:

Mr. Horacio Valeiras (Rector) Mr. C.T. Hill (Chair) Ms. Shelly Butler Barlow Mr. Mehul Sanghani Mr. Dennis Treacy Mr. Jeff Veatch Mr. Preston White

Other Board Members Present:

Mr. Edward Baine Ms. Greta Harris (departed at 3:50 p.m.) Ms. Letitia Long Mr. L. Chris Petersen

Constituent Representatives Present:

Dr. John Ferris (Faculty Representative) Ms. Tamarah Smith (Staff Representative) Ms. Madelynn Todd (Undergraduate Student Representative)

Also present on the Zoom videoconference were the following: President Timothy Sands, Ms. Kim O'Rourke (Secretary to the Board), Dr. Laura Belmonte, Mr. Bob Broyden, Mr. David Chinn, Dr. Cyril Clarke, Mr. Al Cooper, Mr. Brandon Dove, Mr. Corey Earles, Mr. Kari Evans, Major General Randal Fullhart, Ms. Elaine Gall, Mr. Mark Gess, Dr. Alan Grant, Ms. Kay Heidbreder, Mr. Pat Hilt, Dr. Frances Keene, Dr. Chris Kiwus, Ms. Liza Morris, Dr. Sally Morton, Dr. Saied Mostaghimi, Ms. Heidi Myers, Ms. Michelle Naert (captioner), Dr. Ed Nelson, Dr. Dwayne Pinkney, Ms. Brandy Salmon, Dr. Ken Smith, Ms. Heather Snidow, Mr. Dwyn Taylor, and Mr. Jon Clark Teglas

In addition, up to 39 members of the university community and public viewed a live stream of the videoconference on YouTube Live Web Streaming Service.

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- **1. Welcome:** The Committee Chair convened the meeting and provided welcoming remarks. Chris Kiwus, Associate Vice President and Chief Facilities Officer, provided brief remarks on COVID-19 impacts on general facilities operations.
- **2. Consent Agenda:** The Committee approved and accepted the items on the Consent Agenda:
 - a. **Approval of the Minutes from the November 17, 2019 Meeting:** The Committee approved the minutes from the November 17, 2019 meeting.
 - b. Acceptance of the Capital Project Status Report: Chris Kiwus, Associate Vice President and Chief Facilities Officer, provided brief remarks on COVID-19 impacts on capital construction projects. Board members discussed these impacts. The Committee accepted the quarterly capital project status report.
- * 3. Resolution to Clarify a Previous Board Action Regarding the Virginia Tech/Montgomery Regional Airport Authority: The Committee approved the resolution affirming that the grant assurance documents will supersede the language in the Agreement for Purchase and Sale of Real Estate.
 - **4. Annual Report of the University Building Official:** The Committee accepted the Annual Report of the University Building Official, Elaine Gall.
 - 5. Update on Agricultural Facilities Planning and Construction: The Committee received an update from Alan Grant, Dean of the College of Agriculture and Life Sciences, on agricultural facilities planning and construction.
 - 6. Design Preview for the Data and Decision Sciences Building: The Committee approved the design preview for the Data and Decision Sciences Building.
 - 7. Design Preview for the New Upper Quad Residence Hall: The Committee approved the design preview for the New Upper Quad Residence Hall.
 - 8. Design Preview for the Innovation Campus Academic I Building: The Committee approved the design preview for the Innovation Campus Academic I Building.
 - **9. Future Agenda Items and Closing Remarks:** The Committee discussed potential topics and tour opportunities for inclusion on future meeting agendas.

There being no further business, the meeting adjourned at 4:49 p.m.

* Requires full Board approval.

BOARD OF VISITORS BUILDINGS AND GROUNDS COMMITTEE MINUTES

May 27, 2020

The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University met on Wednesday, May 27, 2020, at 2:15 p.m. On this date, the Commonwealth of Virginia was operating under a state of emergency as declared by Governor Northam due to the COVID-19 pandemic. This was an entirely electronic meeting held via Zoom videoconference to conduct regular business as permitted by legislation passed by the General Assembly on April 22, 2020, and signed into law by Governor Northam. A quorum of the Buildings and Grounds Committee was present on the videoconference.

Buildings and Grounds Committee Members Present: Absent:

Mr. Horacio Valeiras (Rector) Mr. C.T. Hill (Chair) Ms. Shelly Butler Barlow Mr. Mehul Sanghani Mr. Dennis Treacy Mr. Jeff Veatch Mr. Preston White (joined at 2:20 p.m.)

Other Board Members Present:

Mr. Edward Baine Ms. Greta Harris Mr. L. Chris Petersen

Constituent Representatives Present:

Dr. John Ferris (Faculty Representative) Ms. Tamarah Smith (Staff Representative)

Also present on the Zoom videoconference were the following:

President Timothy Sands, Ms. Kim O'Rourke (Secretary to the Board), Mr. Whit Babcock, Ms. Lori Buchanan, Dr. Cyril Clarke, Dr. Karen DePauw, Mr. Al Cooper, Mr. Corey Earles, Mr. Kari Evans, Dr. Mike Friedlander, Mr. Bryan Garey, Mr. Mark Gess, Ms. Rebekah Gunn, Ms. Kay Heidbreder, Dr. Chris Kiwus, Ms. Sharon Kurek, Ms. Angie Littlejohn, Dr. Scott Midkiff, Mr. Charles Phlegar, Dr. Dwayne Pinkney, Dr. Menah Pratt-Clarke, Ms. Lenore Schatz (captioner), Mr. Brad Sumpter, Mr. Dwyn Taylor, Dr. G. Don Taylor, Mr. Jon Clark Teglas, Ms. Tracy Vosburgh, Ms. Melinda West, Mr. Brad Wurthman, and Mr. Chris Yianilos

In addition, up to 28 members of the university community and public viewed a live stream of the videoconference on YouTube Live Web Streaming Service.

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- 1. Welcome: The Committee Chair convened the meeting and provided welcoming remarks. President Sands, at the request of Chairman Hill, provided brief remarks on COVID-19 impacts on capital construction project planning and execution.
- 2. Resolution on Appointment to the Montgomery Regional Solid Waste Authority: The Committee approved the resolution recommending that Sharon G. Scott be appointed as joint representative to the Montgomery Regional Solid Waste Authority Board of Directors.
- * 3. Resolution on Appointment to the New River Valley Regional Water Authority: The Committee approved the resolution reappointing Christopher H. Kiwus, Associate Vice President and Chief Facilities Officer, as the university's representative to the New River Valley Regional Water Authority through June 30, 2024.
- * 4. Resolution of Support on Appointment to the New River Resource Authority: The Committee approved the resolution affirming the appointment of Christopher H. Kiwus, Associate Vice President and Chief Facilities Officer, in his role as the university's representative to the Montgomery Regional Solid Waste Authority, to the New River Resource Authority Board of Directors.
- * 5. Resolution of Support for Projects and Use of Bond Financing by the New River Valley Regional Water Authority: The Committee approved the resolution supporting New River Valley Regional Water Authority projects and use of bond financing.

There being no further business, the meeting adjourned at 2:27 p.m.

* Requires full Board approval.

CAPITAL PROJECTS STATUS REPORT

Prepared for the Buildings and Grounds Committee

August 25, 2020

VIRGINIA TECH.

Project Portfolio

- 30 projects (active and completed/1-year warranty phase)
- Total value exceeds \$1 billion
- Adds 2 million gross square feet (GSF) of additional space
- Renovates nearly 300,000 GSF of existing space



Capital Construction Executive Summary (Progr Date Prepared: 7 AUG 2020																				A	ttachn	nent	С
Legend: Design Construction																							
					CY 20	020			CV	2021			CY 2	022			CV.	2023			CY 20	124	
Decised Title	Total Project	New Const	Renovation	JAN-MAR			OCT-DEC	JAN-MAR			OCT-DEC	JAN-MAR			OCT-DEC	JAN-MAR	-		OCT-DEC	JAN-MAR			OCT-D
Project Title	Cost (\$M)	(GSF)	(GSF)	FY20			FY		0.4			(22		01		23		01	FY		0.1		Y25
CC Network Studio	\$10.0	4,161		Q3	Q4		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
TC Biomedical Research Expansion (PPEA)	\$91.7	139,586																					
thletic Weight Room Renovations	\$4.5	4,880	17,640																				
nprove Kentland Facilities (Phase II) Various Locations	\$12.5	28,403																					
tudent Athlete Performance Center (Jameson Hall)	\$20.1	10,800																					
ew Package Boiler #12	\$8.2	N/A																					
reativity & Innovation District Living Learning Community	\$105.5	234,000																					
hiller Plant Phase II	\$42.9	N/A																					
olden Hall Renovation	\$74.9	81,000	20,240																				
vestock & Poultry Research Facilities (Ph I) Various Locations	\$22.5	128,895																					
udent Wellness Improvements (War Memorial Gym & McComas Hall)	TBD	30,124	217,108																				
lulti-Modal Transit Facility	\$34.0	13,606																					
ata & Decision Sciences Building (D&DS)	\$79.0	120,000																					
ietrick Dining Hall First Floor Enclosure & Spirit Plaza	\$8.3	6,298	11,960																				
ew Upper Quad Residence Hall (Femoyer Hall Replacement)	\$33.0	70,200																					
orps Leadership & Military Science Building	\$52.0	60,735	14,725																				
novation Campus Academic Building #1	\$275.0	300,000																					
ITT Hall and New Dining Facility	TBD	101,000																					
ife, Health, Safety, Accessiblity and Code Compliance	\$3.1	N/A																					
lobal Business & Analytics Complex (GBAC) Residence Halls	\$84.0	TBD																					
lusher Hall Replacement	TBD	196,000																					
ndergraduate Science Lab (Design Only) (Note 1)	\$74.8	102,000																					
ennis Facility Addition & Renovation (Design Only) (Note 1)	\$0.5	TBD	TBD																				
eplace Randolph Hall (Design Only) (Note 1)	\$11.0	284,000																					
ojects Not Yet Authorized																							
assell Coliseum Renovations (Feasibility Study Only)	\$0.1	TBD	TBD																				
Iorthern Virginia Center Falls Church (PPEA) (Note 2)	TBD	75,000																					
TOTAL	\$1,048.0	2,000,293	281,673																				
Note 1: Construction not yet authorized Note 2: Comprehensive Agreement under development																							$\left \right $

Under Construction



PPEA State Authorized

Biomedical Research Extension



Status:

- Project on track (99% complete)
- Temporary certificate of occupancy issued



Next Actions:

• Complete punch list

Legend: Design Construction		De	esigne	r: A	ECC	M	(Ca	rilic	on (Cont	ract	:)			Buil	der:	Ska	ansk	a (C	arilio	on C	ontr	act)	
					CY	2020				CY 2	2021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUI	EP OCT-	DEC JA	N-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
Project rule	Cost (\$M)	(GSF)	(GSF)	F	Y20			FY21				FY.	22			FY	23			FY2	24		EY2	25
				Q3	Q4	1	Q	2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
VTC Biomedical Research Expansion (PPEA)	\$91.7	139,586																						

Design-Bid-Build BOV Authorized

Athletic Weight Room Expansion



Status:

• Project on track (95% complete)



Next Actions:

Anticipated completion in August 2020

Legend: Design Construction			Design	er:	Han	bu	ry													B	uilde	er: T	hor	
					CY	2020				CY	2021			CY 2	022			CY 2	2023			CY 2	024	
Decision Tiple	Total Project	New Const	Renovation	JAN-MA	R APR-JUN	JUL	SEP (OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project Title	Cost (\$M)	(GSF)	(GSF)	F	FY20			FY	21			FY	22			FY	(23			FY	(24		FY	25
				Q3	Q4	(1	Q2	Q3	Q4	Q1	Q2												
Athletic Weight Room Renovations	\$4.5	4,880	17,640																					

Improve Kentland Facilities



Status:

- APR Building 100% complete
- BETR Building on track (95% complete)
- MRL Building on track (90% complete)

Next Actions:

- BETR anticipated completion in August 2020
- MRL anticipated completion in October 2020

Legend: Design Construction		De	esigne	r: Sj	pecti	un	n De	sign				Build	der(s): A	PR =	: Sny	der,	; M	IRL 8	k BE	ΓR =	CPP	1
					CY 2	020			CY	2021			CY 2	2022			CY 2	2023			CY 2	2024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL SE	P OCT-DE	C JAN-M	AR 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
Project file	Cost (\$M)	(GSF)	(GSF)	FY	/20			Y21			FY	22			FY.	23			FY.	24		EY.	25
				Q3	Q4	(1	Q2	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	28,403																					

Student Athletic Performance Center



Status:

• Project on track (65% complete)



Next Actions:

• Anticipated completion in November 2020

Legend: Design Construction		De	signer	: Н	anb	ury	y											Buil	lder	: Bra	anch	Bui	lds	
					C	2020				CY 2	021			CY 2	2022			CY 2	2023			CY 20	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JU	N JUL	SEP OC	CT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project Title	Cost (\$M)	(GSF)	(GSF)	F	Y20			FY2	21			FY	22			FY	23			FY2	24		FY2	25
				Q3	Q4	C		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Student Athlete Performance Center (Jameson Hall)	\$20.1	10,800																						

Design-Bid-Build BOV Authorized

New Package Boiler



Status:

- Project on track (90% complete)
- New boiler fully installed



Next Actions:

- Boiler performance testing & commissioning
- Anticipated completion in January/February 2021

Legend: Design Construct	ion	Desig	gner: /	AEI													Bu	ilder	: Fa	ulco	oner		
					CY 20	20			CY 2	021			CY 20	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	UL SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
rioject nite	Cost (\$M)	(GSF)	(GSF)	F١	r20		FY.	21			FY	/22			FY	23			FY	24		FY2	25
				Q3	Q4	(1	Q2	Q3	Q4	Q1	Q2												
New Package Boiler #12	\$8.2	N/A																					

Design-Bid-Build BOV Authorized

Design-Build

BOV Authorized

Creativity & Innovation District LLC



Status:

• Project on track (60% complete)

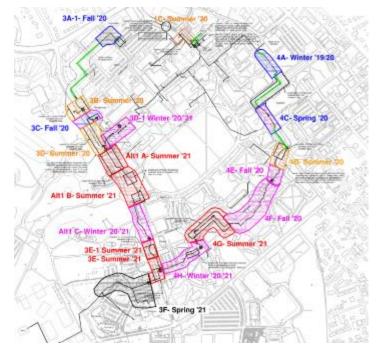


Next Actions:

Anticipated completion in June 2021

Legend: Design Construction		Desigr	ner: H	anb	ury												Βι	uilde	er: W	VM J	lorda	an	
					CY 2	020			CY 2	021			CY 2	022			CY 2	023			CY 2	024	
Destant Tible	Total Project	New Const	Renovation	IAN-MAR	APR-JUN	JUL	EP OCT-DE	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project Title	Cost (\$M)	(GSF)	(GSF)	FY	20		F	Y21			FY	22			FY	23			FY2	24		FY2	25
				Q3	Q4	C1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Creativity & Innovation District Living Learning Community	\$105.5	234,000																					

Chiller Plant (Phase II)





Design-Bid-Build State Authorized

Status:

• Project on track (60% complete)

Next Actions:

Anticipated completion in July 2021

Legend: Design Construction		D	esigne	r: A	EI													Bui	lder	: Fa	ulco	ner	
					CY	2020			CY 2	2021			CY 2	2022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL SE	P OCT-D	EC JAN-MA	R 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
Project filter	Cost (SM)	(GSF)	(GSF)	FY	/20			FY21			FY	22			FY	23			FY	24		FY	25
				Q3	Q4	d a	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Chiller Plant Phase II	\$42.9	N/A																					

Holden Hall

<u>CM at Risk</u> State Authorized





Status:

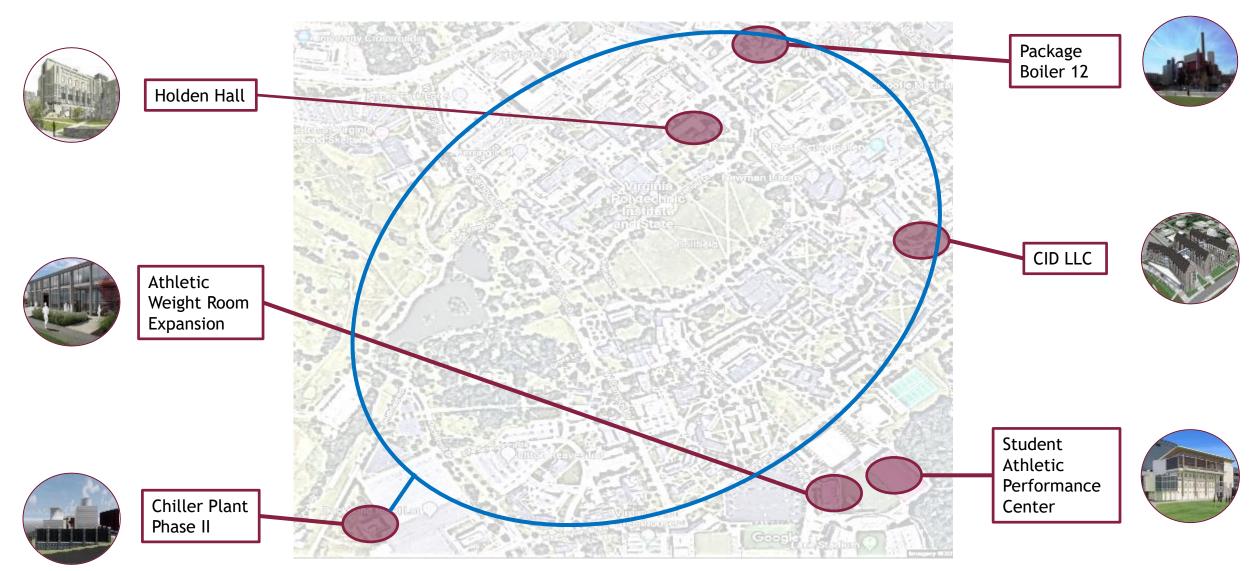
• Project on track (15% complete)

Next Actions:

Anticipated completion in December 2021

Legend: Design Construction		Des	signer:	Mo	osele	ey											В	uilde	er: N	NM .	Jorda	an	
					CY 2	2020			CY 2	2021			CY 2	022			CY 2	2023			CY 20	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUI	SEP OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project ritie	Cost (\$M)	(GSF)	(GSF)	Ð	(20		F	/21			FY.	22			FY	23			FY	24		FY	25
				Q3	Q4	0	1 Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Holden Hall Renovation	\$74.9	81,000	20,240																				

Active Construction On Campus 2020

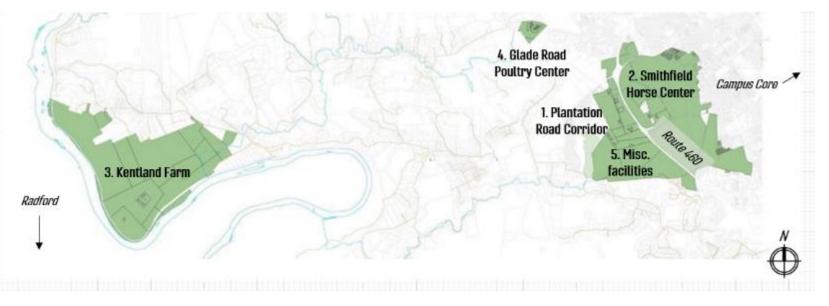


In Design



Design-Bid-Build State Authorized

Livestock & Poultry Research Facilities (Phase II)



<u>Status:</u>

- A/E is finalizing bid documents
- 10 new buildings
- 16 demolitions
- 6 different bid packages

Next Actions:

- Issue invitations for bids
- Targeting early fall construction start

Legend: Design	Construction	Des	signer:	Sp	ectru	m	n Desi	gn											Build	der(s	s): T	BD	
					CY 20	20			CY 2	2021			CY 2	2022			CY 2	2023			CY 2	2024	
Burlant This	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	IU -S	SEP OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project Title	Cost (\$M)	(GSF)	(GSF)	FY	20		F	/21			FY	22			FY	23			FY	24		FY	/25
				Q3	Q4	1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Livestock & Poultry Research Facilities (Ph I) Various Lo	ocations \$22.5	128,895																					

Student Wellness Improvements

<u>CM at Risk</u> BOV Authorized



<u>Status:</u>

• CM at Risk is updating Guaranteed Maximum Price (GMP)

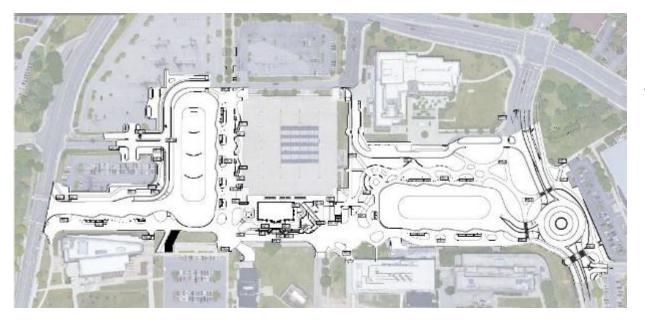
Next Actions:

- Updated GMP from CMaR expected in August 2020
- If GMP within authorized budget, anticipate proceeding to construction September 2020
- If GMP exceeds authorized budget, the university will explore alternatives

Legend: Design Construction		De	signer	: Ca	nnc	n	Des	sign										Bui	lder	:: W	hitin	g-Tu	rner	•
					CY	202				CY 2	021			CY 2	022			CY 2	023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JL	-SEP OG	CT-DEC J	AN-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
Project libe	Cost (\$M)	(GSF)	(GSF)	FY	20			FY21	1			FY	22			FY	23			FY	24		FY2	25
				Q3	Q4	0	01	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Student Wellness Improvements (War Memorial Gym & McComas Hall)	TBD	30,124	217,108																					

Multi-Modal Transfer Facility

Design-Bid-Build ToB Project



<u>Status:</u>

• Town of Blacksburg (ToB) A/E finalizing bid documents

Next Actions:

• ToB targeting issuance of invitation for bids in August

Legend: Design Construct	ion	Des	igner:	We	ende	I (T	оВ с	ontra	act)							Bu	ilder	: TE	SD (T	oB α	cont	ract)	
					CY 2	2020			CY	2021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	P OCT-DE	CJAN-MAR	R 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
Ploject nite	Cost (\$M)	(GSF)	(GSF)	F١	/20		1	Y21			FY	22			F١	(23			FY	24		FY2	25
				Q3	Q4	d 1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Multi-Modal Transit Facility	\$34.0	13,606																					

Data & Decisions Sciences



Status:

• Project on track

Next Actions:

- A/E will complete design in September 2020
- CMaR will determine GMP in October/November 2020
- Construction start targeted for December 2020

Legend: Design Construction		Desi	gner:	Mos	eley											Bu	ildeı	r: Kj	ellst	rom	& Le	e	
					CY 20	20			CY 2	2021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	IU -SE	P OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
Project file	Cost (\$M)	(GSF)	(GSF)	FY	20		FY	21			FY	/22			FY	23			FY	24		FY2	:5
				Q3	Q4	21	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Data & Decision Sciences Building (D&DS)	\$79.0	120,000																					

<u>CM at Risk</u> State Authorized

Dietrick 1st Floor Enclosure & Spirit Plaza

Design-Bid-Build BOV Authorized



<u>Status:</u>

- Project "bid-busted" in May 2020
- Construction budget = \$6M; Low bid = \$7.3M
- A/E developed redesign/cost savings alternatives

Next Actions:

• Determine appropriate course of action for the project

Legend: Design Construct	Construction Designer:			Har	nbur	У														Buil	der:	TBC)
					CY 2	2020			CY	2021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	EP OCT-I	DECJAN-M	AR 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
Project filte	Cost (\$M)	(GSF)	(GSF)	FY	/20			FY21			F١	Y22			FY	23			FY	24		FY	25
				Q3	Q4	d	Q	2 Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Dietrick Dining Hall First Floor Enclosure & Spirit Plaza	\$8.3	6,298	11,960																				

CM at Risk

BOV Authorized

New Upper Quad Residence Hall



Status:

- Design progressing
- Current cost estimate is \$1.6M (6%) over budget
- Developing cost savings alternatives

Next Actions:

- Vet cost savings alternatives
- Transition design into Working Drawings phase
- Targeting demo of Femoyer in winter/spring 2021
 (construction start immediately following)

Legend: Design Construct	tion	Design	er: Cl	ark-	Nex	ser)												Bu	iilde	r: V	ann	су	
					CY 2	2020				CY 2021	1			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	SEP OCT-D	ECJAN-N	AR APR-J	UL NU	JL-SEP	DCT-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
Project nite	Cost (\$M)	(GSF)	(GSF)	F١	Y20			FY21				FY	22			F١	Y23			FY	24		EY2	25
				Q3	Q4	c	1 Q2	Q	3 Q4		Q1	Q2	Q3	Q 4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
New Upper Quad Residence Hall (Femoyer Hall Replacement)	\$33.0	70,200																						

<u>CM at Risk</u> BOV Authorized

Corps Leadership & Military Science



- Design progressing
- Current cost estimate is \$1.9M (5%) over budget
- Developing cost savings alternatives

Next Actions:

Status:

- Vet cost savings alternatives
- Transition design into Working Drawings phase
- CM at Risk will develop GMP in late fall 2020
- Targeting construction start in July 2021

	Legend: Design Construction		Desig	ner: (Clark	-Ne>	se	n											E	Build	er: ˈ	Vanr	ιογ	
Γ						CY 2	020			CY 2	021			CY 2	022			CY 2	023			CY 2	024	
	Benlinet Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JU -SEI	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
	Project Title	Cost (\$M)	(GSF)	(GSF)	FY	20		FY	21			FY	22			FY	23			FY	24		FY	25
					Q3	Q4	21	Q2	Q3	Q4	Q1	Q2												
C	orps Leadership & Military Science Building	\$52.0	60,735	14,725																				

CM at Risk

State Authorized

Innovation Campus



Status:

- Project on track
- Programming and floorplans under development
- City of Alexandria concurs with most recent zoning and entitlements submission

Next Actions:

- Complete schematic design phase in September 2020
- Transition to preliminary design phase in October 2020
- Targeting construction start in July 2021

Legend: Design Construction		Desigr	ner: Sr	nith	nGro	up												B	uild	er: ۱	<i>W</i> hi [.]	ting	-Tur	ner
					CY	2020				CY 2	021			CY 2	022			CY 2	023			CY :	2024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	EP OCT	T-DEC JA	N-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
Project ribe	Cost (\$M)	(GSF)	(GSF)	F	/20			FY21				FI	(22			FY	23			FY	24		F	25
				Q3	Q4	1		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Innovation Campus Academic Building #1	\$275.0	300,000																						

Hitt Hall/New Dining

<u>CM at Risk</u> BOV Authorized



Status:

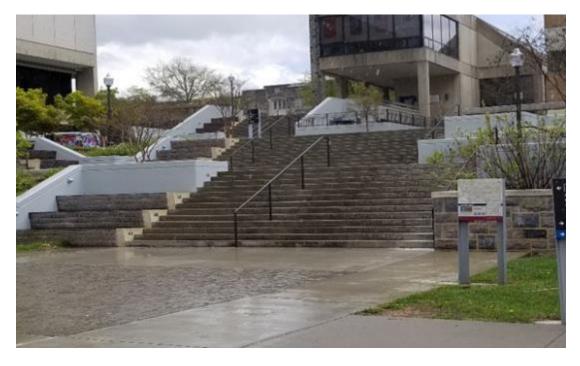
- Under re-procurement due to inability to reach terms with preferred design/builder
- Transitioned project to CMaR procurement

Next Actions:

- Currently procuring new A/E firm and CMaR
- Construction start targeted for October 2021

[Legend: Design Construction		Desigr	ner: T	BD															E	Build	er:	TBD	
ſ						CY 20				CY 2	021			CY 2	022			CY 2	2023			CY 2	024	
	Beninet Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN J	L-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
	Project Title	Cost (\$M)	(GSF)	(GSF)	FY	20		FY	21			FY	22			FY	23			FY	24		FY	25
L					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
	HTT Hall and New Dining Facility	TBD	101,000																					

Life, Health, Safety, Accessibility and Code Compliance



<u>Status:</u>

• Procuring A/E design services

Next Actions:

Conduct feasibility study to formulate optimal approach to maximize State appropriation

Legend: Design Construct	tion	Des	igner:	TBE)															Builo	der:	TBC	
					CY 202	20			CY 2	2021			CY 2	022			CY 2	2023			CY 2	.024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN JU	JI-SEP	OCT-DEC	JAN-MA	R 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
Flojett Hite	Cost (\$M)	(GSF)	(GSF)	FY	20		F	Y21			FY	22			FY	23			FY:	24		FY2	25
				Q3	Q4	11	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Life, Health, Safety, Accessiblity and Code Compliance	\$3.1	N/A																					

Design-Bid-Build State Authorized

Design-Bid-Build

BOV Authorized

GBAC Residence Halls



Status:

- Project was previously slated for D/B procurement
- Under re-procurement due to significant budget overrun
- Transitioning project to "pre-qualified" Invitation For Bid

Next Actions:

• Procure new A/E firm for full design services

Legend: Design Construction		Des	signer:	ΤВ	D			_													Build	der:	TBE)
					CY 2	020				CY 2	021			CY 2	022			CY 2	2023			CY 20	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JU -S	EP OCT	F-DEC J	AN-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
Project little	Cost (\$M)	(GSF)	(GSF)	FY	/20			FY21	1			FY	22			FY	23			FY2	24		FY:	25
				Q3	Q4	1	0	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Global Business & Analytics Complex (GBAC) Residence Halls	\$84.0	TBD																						

Slusher Hall Replacement



Design-Build Non-General Funds

<u>Status:</u>

- Project on hold
- No demolition planned before completion of GBAC Residence Halls

Next Actions:

• Develop optimal project procurement strategy

Legend: Design Construction		Des	signer:	Cla	ark N	lex	sei	n													Build	der:	TBD)
					CY	2020				CY 2	2021			CY 2	2022			CY 2	2023			CY 2	2024	
Project Title	Total Project	New Const	Renovation	JAN-MA	R APR-JUN	JUL	EP O	CT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
	Cost (\$M)	(GSF)	(GSF)	F	FY20			FY2	21			FY	22			FY	23			FY	24		FY2	25
				Q3	Q4	d		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Slusher Hall Replacement	TBD	196,000																						

CMAR State Authorized

Undergraduate Science Lab (Design Only)



<u>Status:</u>

- Design is essentially complete
- Waiting General Assembly to authorize construction

Next Actions:

 Upon construction authorization, coordinate CMaR development of Guaranteed Maximum Price (GMP)

Legend: Design Construction		Des	igner:	ZG	F													B	Build	er:	Skar	iska		
					CY	2020				CY 2	021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	SEP O	CT-DEC J	IAN-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
	Cost (\$M)	(GSF)	(GSF)	F	Y20			FY2	21			FY	22			FY	23			FY	24		FY	25
				Q3	Q4	01	L	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Undergraduate Science Lab (Design Only)	\$74.8	102,000																						

Attachment C

Design-Bid-Build

BOV Authorized

Tennis Facility Addition and Renovation (Design Only)



Status:

• Project transitioned from D/B to design-bid-build

Next Actions:

• Finalize procurement for A/E full design services

[Legend: Design Constructi	on	Des	igner:	TB	D															Bu	ilder	: TE	3D
ſ						CY 2	020			CY 2	021			CY 2	022			CY 2	2023			CY 2	024	
	Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL <mark>-</mark> SE	P OCT-DE	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
	Poject file	Cost (\$M)	(GSF)	(GSF)	FY	20		F	Y21			FY	22			FY	23			FY	24		FY:	25
					Q3	Q4	dı	Q2	Q3	Q4	Q1	Q2	Q3	Q 4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
ŀ	ennis Facility Addition & Renovation (Design Only)	\$0.5	TBD	TBD																				

Attachment C

Replace Randolph Hall (Design Only)



<u>CMaR (Pending)</u> State Authorized

Status:

• Project authorized for design only

Next Actions:

• A/E design services procurement

	Legend: Design Construct	ion	Des	gner:	TBC)															Buil	der:	TBD)
						CY 20	20			CY 2	021			CY 2	022			CY 2	2023			CY 2	2024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN J	UL	P OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC													
	Project Title	Cost (\$M)	(GSF)	(GSF)	FY	20		FY	21			FY	22			FY	23			FY.	24		FY	25
					Q3	Q4	c1	Q2	Q3	Q4	Q1	Q2												
Re	eplace Randolph Hall (Design Only)	\$11.0	284,000																					

Cassell Coliseum Renovations (Feasibility Study Only)



<u>Status:</u>

• Study is 99% complete

Next Actions:

• Finalize and complete study

Legend: Design Construction		Des	igner:	ΗN	ТВ (Cor	рс	orati	on												Buil	der:	TB	C
					C	Y 2020				CY 2	021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JU	N JUL	SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC												
	Cost (\$M)	(GSF)	(GSF)	F	Y20			FY	21			FY	22			FY	23			FY:	24		FY	25
				Q3	Q4	0	1	Q2	Q3	Q4	Q1	Q2												
Cassell Coliseum Renovations (Feasibility Study Only)	\$0.1	TBD	TBD																					

Not Yet Authorized by BOV

Northern Virginia Falls Church (PPEA)



PPEA Not Yet Authorized by BOV

Status:

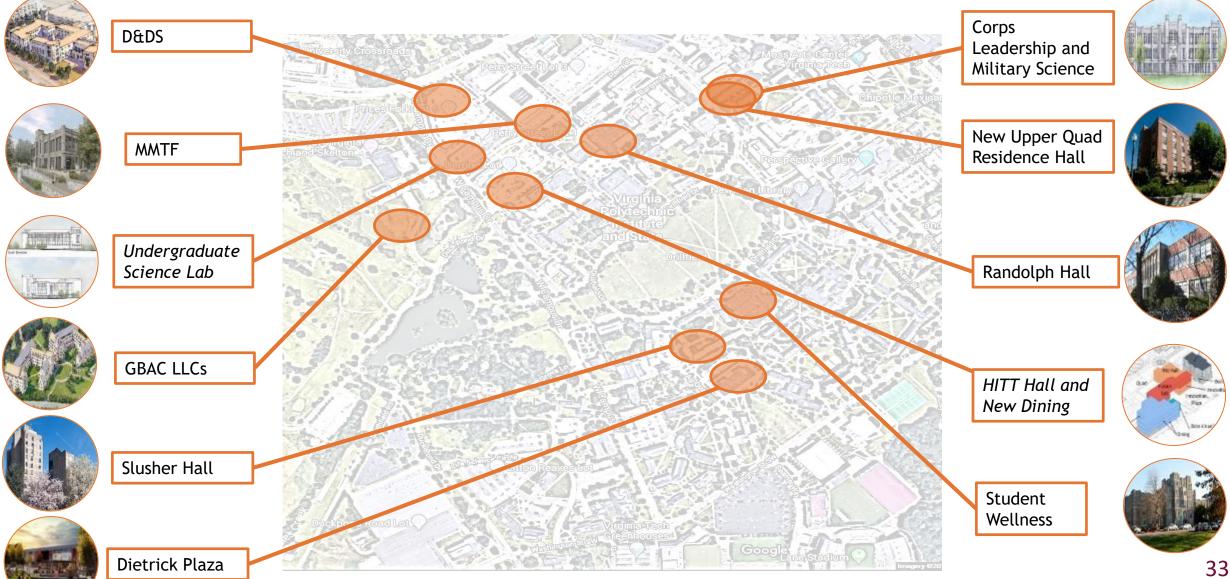
Currently developing PPEA Comprehensive Agreement

Next Actions:

- Iterate/finalize PPEA Comprehensive Agreement
- Initial programming and schematic design
- Present finalized Comprehensive Agreement to BOV

Legend: Design Construction Designer: Gensler Architecture														Dev	velo	per:	Cor	nver	ge V	Vest	Fall	s, LL	С
					CY 2	020			C	1 2021			CY 2	022			CY 2	2023			CY 2	024	
Project Title	Total Project	New Const	Renovation	JAN-MAR	APR-JUN	JUL	EP OCT-D	EC JAN-N	IAR APR-JU	N JUL-SE	EP 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
	Cost (\$M)	(GSF)	(GSF)	FY	20			FY21			FY	/22			FY	23			EY.	24		FY.	25
				Q3	Q4	(1	Q2	Q	Q4	Q1	0,2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Northern Virginia Center Falls Church (PPEA)	TBD	75,000																					

On-Campus Projects In Design



Construction Method Refresher

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

Definitions

- 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
 - 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

Panel Discussion on COVID-19 Buildings and Grounds Considerations

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

The Committee will receive an update on COVID-19 buildings and grounds considerations from Dr. Chris Kiwus, Vice President for Campus Planning, Infrastructure, and Facilities; Dr. Lance Franklin, Assistant Vice President for Environmental Health and Safety; Dr. Frances Keene, Assistant Vice President and Chief of Staff, Student Affairs; Mr. Rick Sparks, Associate Vice Provost and University Registrar; and Ms. Liza Morris, Assistant Vice President for Planning and University Architect.

Attachment C

PANEL DISCUSSION ON COVID-19 BUILDINGS AND GROUNDS CONSIDERATIONS

Christopher H. Kiwus, PE, PhD Vice President for Campus Planning, Infrastructure, and Facilities

Lance Franklin, PE, PhD Assistant Vice President for Environmental Health and Safety

Richard A. Sparks Jr. Associate Vice Provost and University Registrar

Frances B. Keene, PhD Assistant Vice President and Chief of Staff, Student Affairs

Liza L.C. Morris, NCARB Assistant Vice President for Planning and University Architect VIRGINIA TECH.

August 25, 2020

Attachment C

Ready for Fall 2020 Buildings and Grounds Considerations



DIVISION OF CAMPUS PLANNING, INFRASTRUCTURE, AND FACILITIES VIRGINIA TECH.

Our Commitment...



Creating and Maintaining Healthy Environments

- Abide by all CDC, state, university, and industry protocols for healthy working conditions and behaviors.
- Continue to evaluate data-informed conditions, feedback, and processes to help the department assess and address gaps in service execution.
- Ensure that operations remain in sync and intentionally scaled with enterprise wide operating conditions, allowing the department to remain nimble, responsive, and positioned to provide best-in-class services to the university community.
- Recognize the critical role that housekeeping services play.
- Approach all campus locations (Blacksburg, Roanoke, Greater Washington D.C., metro region, ARECs, and beyond) — whether university owned or leased — as consistently as possible.



"While maintaining Virginia Tech's unique sense of place remains our passion, our foremost priority is the safety and wellbeing of the university community."

Our Actions...

Creating and Maintaining Healthy Environments

- Deploying Consistent and Stringent Standards
- Enhancing Cleaning and Disinfection
- Enhancing Hand Hygiene Program
- Supporting Environmental Quality (Air/Water)
- Assisting with Space Modifications
- Implementing Signage Standards
- Activating Outdoor Spaces
- Supporting the Standardization of Building Access
- Supplementing of Resource Capacity
- Prioritizing Spaces and Services
- Coordinating with Contractors
- Unifying Service Delivery at Off-site Locations
- Communicating Efforts and Updates





Ready for Fall 2020 Standards, Guidelines, Best Practices



ENVIRONMENTAL HEALTH & SAFETY VIRGINIA TECH.

Our Guiding Framework...

Creating and Maintaining Healthy Environments







To protect the health and promote the well-being of all people in Virginia.



Advancing Clean. Driving Innovation.



ASHRAE

LEADERSHIP IN EDUCATIONAL FACILITIES

Our Focus...

Creating and Maintaining Healthy Environments

- Cleaning and Disinfection
- Shared Objects
- Ventilation Systems
- Water Systems
- Modified Layouts
- Physical Shielding
- Communal Spaces
- Food Service



Attachment C

Ready for Fall 2020

Creating and Maintaining Healthy Environments in Academic Spaces



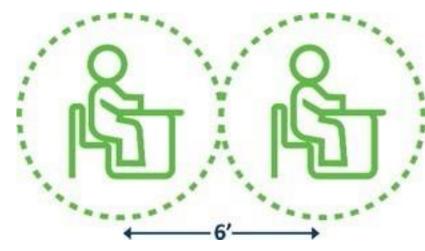
Creating and Maintaining Healthy Environments in **Academic Spaces**

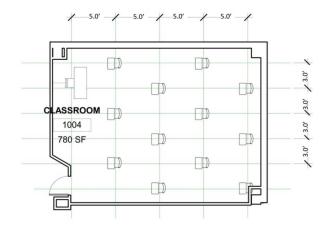
- Rearranging all classrooms, labs, and common areas to adhere to public health and safety guidelines.
 - Layout and other changes to approximately 200 general assignment classrooms across campus.
 - Individual departments maintain other classrooms.
 - Spaces will have fewer desks, chairs and furniture as it adjusted.
- Developing guidelines for classroom design through the Office of the University Registrar. Facilities teams assisting with implementation.
- Supporting strategy and implementation of physical shielding and guards as appropriate.
- Leasing space for furniture storage.



Attachment C

Creating and Maintaining Healthy Environments in **Academic Spaces**







Attachment C

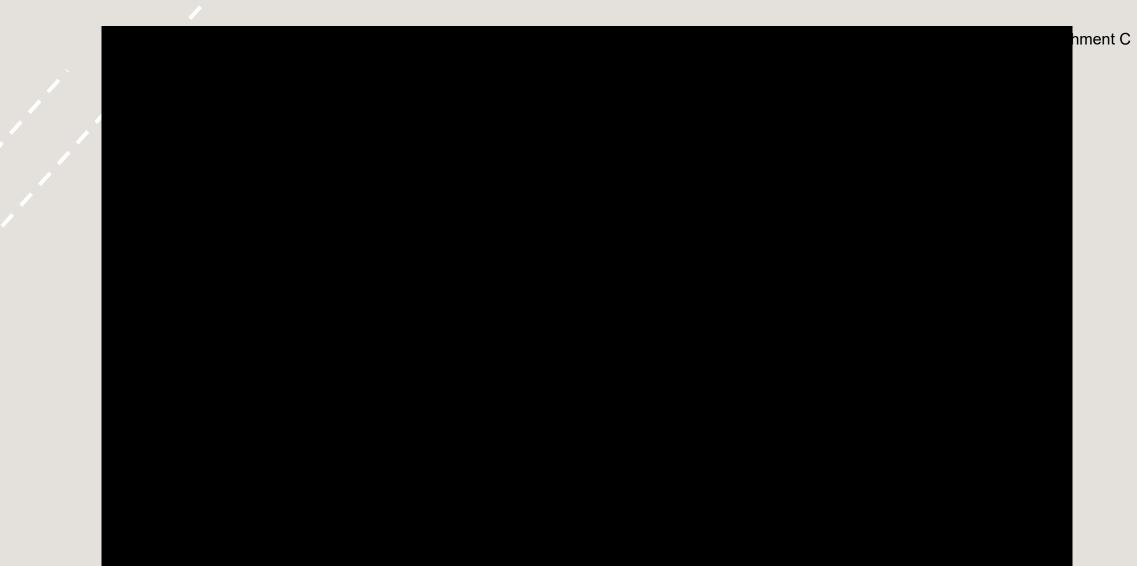
<u>Link to Video Feature</u>

CLASSROOM MODIFICATIONS

Ready for Fall 2020

Creating and Maintaining Healthy Environments in Student Affairs Spaces





HOUSING MOVE-IN



CAMPUS HOUSING

- Seating in lounges and common spaces reduced and distanced
- Signage throughout to remind users of physical distancing guidelines





CAMPUS HOUSING

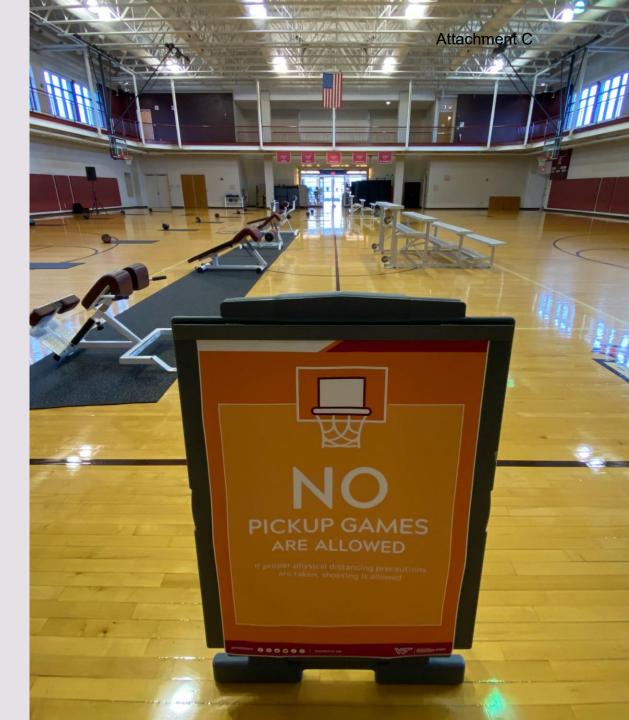
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CAMPUS HOUSING

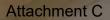
Attachment C

RECREATION FACILITIES

- Equipment spaced at appropriate distances
- Some equipment designated "not for use"
- Plexiglass barrier for staff
- Signage throughout to remind users of physical distancing guidelines







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HOKIE WELLNESS

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in order to ensure propa physical distancing

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Attachment C

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- Directional signage and reminders for physical distancing
- Seating spaced out appropriately





Attachment C

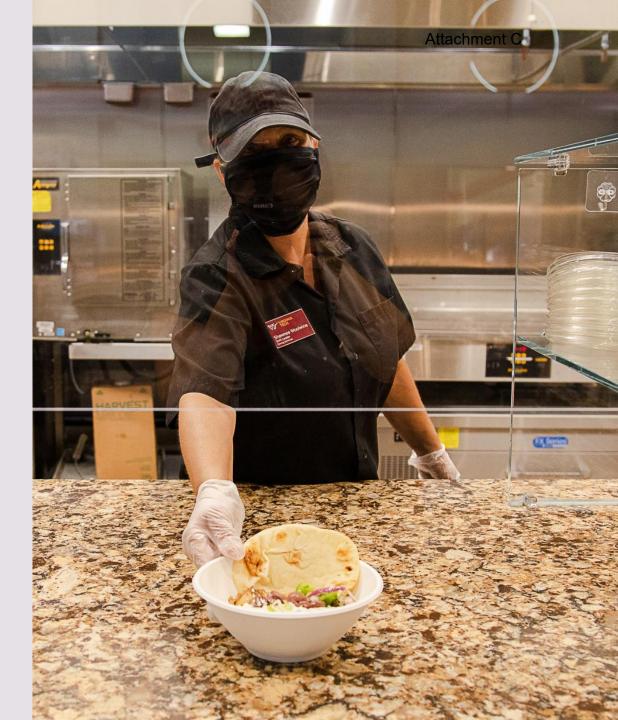
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Attachment C



DINING SERVICES

- Directional signage and reminders for physical distancing
- Seating spaced out appropriately
- Touchless pay stations
- No self-service stations







DINING SERVICES

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Attachment (

10-201

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Beyond Fall 2020 Buildings and Grounds Considerations



Creating and Maintaining Healthy Environments in **Future Spaces**

"How will the COVID-19 pandemic change the built environment?"

All actions are in close coordination with:

- The Office of Equity and Accessibility
- The Office of the University Building Official



Questions?

Buildings and Grounds Considerations



Update on Agricultural Facilities Planning & Construction

BUILDINGS AND GROUND COMMITTEE

August 25, 2020

A number of exciting, major agricultural facility initiatives are currently underway to continue the advancement of the land grant mission at Virginia Tech. Highlights are below.

Virginia Seafood Agricultural Research and Extension Center (AREC): This new 21,698 gross sq. ft. three-story building represents the culmination of a remarkable partnering effort between the Virginia Seafood AREC, College of Agriculture and Life Sciences (CALS), Virginia Tech Foundation, Inc., City of Hampton, and Virginia General Assembly to fund the \$9.26 million facility. With groundbreaking planned in August 2020, the stunning new laboratory near the waterfront in downtown Hampton should be complete 12 months later, providing 10 new labs with modern equipment, a sizeable classroom with demonstration capability, an office suite housing up to 9 faculty plus graduate students and research staff.



Metabolic Research Laboratory (MRL): As one of three buildings funded through the Improve Kentland Facilities, Phase II (IKF2) capital project the MRL is scheduled for completion in September 2020 and ready for research projects to begin in October. This 11,330 gross sq. ft. facility situated just south of the new Dairy Center at Kentland Farm will allow for basic and applied research to be conducted in four new purpose-built large animal laboratory rooms designed with complete environmental controls, a highly customizable tie-stall system, a

specialized collection and treatment system for contaminated animal waste, and general and necropsy labs.



Bovine Extension, Teaching, and Research (BETR) Facility: Consisting of a new instructional building and an open-air arena, the BETR buildings are part of IKF2 and scheduled to be complete and in operation for Fall Semester 2020. Occupying an open lot between the historic Judging Pavilion and Campbell Arena in the livestock complex along Plantation Road, these two structures will allow new opportunities for two-year and four-year student classes and extension programming to occur near the heart of the animal sciences farms. The 3,500 sq. ft. one-story instructional building houses two 32-seat classrooms that can be opened up into one large classroom with up-to-date technology. The 5,100 sq. ft. demonstration arena is fully ADA-compliant and also has vehicular access to the arena floor.



Applied Reproduction (APR) Facility: The third component of IKF2, APR is a 4,510 square foot open-sided pole barn behind the College of Veterinary Medicine (CVM) designed for palpation and breeding instruction of CVM and CALS students. After achieving substantial completion earlier this year, the project will be finally complete with the installation of owner-furnished cattle handling and other equipment this summer, in concert with the other IKF2 buildings.



Livestock and Poultry Research Facilities (LPRF), Phase 1: With state funding authorization to move into construction, the LPRF project is expected to go to bid in summer 2020, and start construction immediately in the fall. The overall budget of \$25,274,000 will construct 131,100 sq. ft. in 10 new buildings, and demolish 16 aging and outdated facilities (approximately 62,400 sq. ft.), requiring the careful orchestration of 6 bid packages. Demolition and new construction activities will take place over the following 16 months, being complete in spring 2022. New facilities include a 13,900 sq. ft. equitation barn next to Alphin-Stuart Arena, a 24,200 sq. ft. swine center at Kentland Farm, an 11,800 sq. ft. broiler grow-out facility and 10,800 sq. ft. turkey grow-out facility at the Glade Road Turkey Farm, and a 26,700 sq. ft. beef nutrition facility at Kentland Farm. The project will also construct four much needed large hay storage barns at various farm locations and a large equipment storage shed at the livestock center on Plantation Road.

AREC Maintenance Reserve Planning: In addition to the exciting new facilities detailed above, CALS has received support for the ARECs from Division of Campus Planning, Infrastructure and Facilities and the Division of Finance, committing an additional \$1 million in maintenance reserve funds to accompany the current biennial allocation of \$500,000. This \$1.5 million investment will be spent over the next two fiscal years (2021-2022) on critical maintenance and repairs of existing facilities. Sixteen major projects have been identified to improve the condition of 38 buildings across all 11 ARECs. Two projects are already under design and the next eight are planned to begin design this fall.

CAPITAL PROJECTS

Notes:

1) See Capital Project Status Report (BOV Buildings & Grounds Consent Agenda) for most current information on the following CALS capital projects: Improve Kentland Facilities, Phase I. 2) Planned capital projects that are on the 6-Year Capital Outlay Plan and request for the 2020-22 biennium, but not yet in design include: Global Systems Sciences Building, (\$122.6 million General Fund request for 135,000 GSF), Animal Production & Livestock Facilities, Phase II (\$72.6 million General Fund request for 234,000 GSF) and System-wide Agricultural Research & Extension Centers Improvements (\$42.1 million General Fund request for 150,600 gsf). None were funded during the 2020 Legislative Session.

3) The Virginia Tech Foundation is managing the design, construction and funding of the New Virginia Seafood AREC Building project in Hampton.

TAL PROJECTS						
Ites through July 31, 2020 JECTS COMPLETED SINCE LAST REPORT						
<u>Minor Projects (<\$25,000 each):</u> Eastern Va. AREC Garage Repairs Middleburg AREC House 0820 HVAC Upgrades Dairy Center Main Barn waterline repairs	Mitigate flooding into Garage area and install ceiling insulation. Relocate oil tank from basement, install new heat pump and relocate furnace from house #815 Cut and cap lines to stop leaks at failed hydrants inside barn	\$31,000	CALS / VAES	- Multiple	Summer 2020	Projects are complete.
Tidewater AREC - Replace Metal Roof Buildings 794 and 795	Existing metal roofs are leaking on Ag Engineers Office and Machine Lab 0794 and Butler Building 0795 (Hare Road Site). Both are to be replaced.	\$76,000	Maintenance Reserve	- ShenCorp	Summer 2020	Projects are complete.
Alson H. Smith AREC - Repair Domestic Water Booster Pump System	Primary pressure booster pump has failed and is not repairable. AREC is currently running on secondary pumps only. System needs to be replaced.	\$49,000	Maintenance Reserve	- Kreider	Summer 2020	Project is complete.
Alphin-Stuart Arena Roof Repairs	Flat roof (membrane) areas of Alphin-Stuart Arena are leaking and in need of repair. Sloped metal roof will also be evaluated for repairs needed.	\$198,000	Maintenance Reserve	HDH Associates New River Roofing	Summer 2020	Project is complete, pending final manufacturer inspe
<u>Minor Projects (<\$25,000 each):</u> Shenandoah Valley AREC House 0859 Repairs Shenandoah Valley AREC 0856 Feeding Barn Electrical Mods.	Misc. minor repairs to tenant house 0859 Add power supply for (4) smart scales	\$5,000	CALS / VAES	- Multiple	Fall 2020	In Progress
Southern Piedmont AREC Main Building Bathrooms	Renovation of main restrooms and kitchen in Administration Building to correct plumbing deficiencies and provide wheelchair accessibility.	\$322,000	Maintenance Reserve	Burns and McDonnell Stoker Construction	Summer 2020	Final inspection in August 2020.
Shenandoah Valley AREC Cattle Feed Shed Repair	Demolition and Replacement of Cattle Feeding and Equipment Storage Shed. Due to deterioration, cost of repair exceeds cost of replacement.	\$136,000	Maintenance Reserve	5 Design Architecture Superior Buildings	Summer 2020	Final inspection in August 2020.
Turkey Center Service Building 603 Restroom Repair	Demolition planned during the Livestock and Poultry Research Facilities (LPRF) Phase 1 capital project will remove the only functional restroom facility at the Turkey Farm. Existing but unused restroom facilities in the Service Building will be renovated to serve the farm, including accessibility improvements.	\$201,000	Maintenance Reserve	Spectrum Design F&S	Fal 2020	Construction is undrerway.
JECTS IN DESIGN						
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	TBD	Detailed installation requirements being reviewed for
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	TBD	Maintenance Reserve	HDH TBD	TBD	Design is underway.
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.	\$40,000	Maintenance Reserve	Mattern and Craig TBD	TBD	Permitting approved. No bids received initially. Re-iss Roads area for this type of specialty work could cause
Smithfield Equine Classrom Renovations	Buiding envelope repairs, accessibility improvements to classroom and restroom, HVAC upgrade to add cooling, classroom interior enhancements	\$150,000	Maintenance Reserve, various	5 Design TBD	TBD	Design is underway.
	Minor Projects (<\$25,000 each): Eastern Va. AREC Garage Repairs Middleburg AREC House 0820 HVAC Upgrades Dairy Center Main Barn waterline repairs Tidewater AREC - Replace Metal Roof Buildings 794 and 795 Alson H. Smith AREC - Repair Domestic Water Booster Pump System Alson H. Smith AREC - Repair Domestic Water Booster Pump System Dects IN CONSTRUCTION Minor Projects (<\$25,000 each): Shenandoah Valley AREC House 0859 Repairs Shenandoah Valley AREC House 0859 Repairs Shenandoah Valley AREC OBS6 Feeding Barn Electrical Mods. Southern Piedmont AREC Main Building Bathrooms Shenandoah Valley AREC Cattle Feed Shed Repair Turkey Center Service Building 603 Restroom Repair VECTS IN DESIGN AREC Exterior Signage Upgrades Turkey Center Service Building 603 Roof and Misc. Repairs Hampton Roads AREC Repair Bulkhead & Pump House	Minor Projects (ESU2.000 cach): Legrar V2: ARC: Garge Regars Dary Center Main Barn watering regars Dary Center Main Barn watering regars Udewater ARC: - Replace Metal ited fauldings /94 and 7/35 Dary Center Main Barn watering regars Alson H. Smith ARC: - Replace Metal ited Booter Pump Privacy pressure booter pump bar failed and is not repairable. AREC is currently running on secondary pumps of regars Alson H. Smith ARC: - Replace Metal ited Societ Pump Privacy pressure booter pump bar failed and is not repairable. AREC is currently running on secondary pumps only. System reeds to be replaced. Algorith-Stuart Areas Roof Repairs Privacy pressure booter pump bar failed and is not repairable. AREC is currently running on secondary pumps only. System reeds to be replaced. Note: Finance Roof Repairs Privacy pressure booter pump bar failed and is not repairable. AREC is currently running on secondary pumps only. System reeds to be replaced. Note: Finance Roof Repairs Privacy pressure booter pump bar failed and is not repairable. AREC is currently running on secondary pumps only. System reeds to be replaced. Sector IN CONSTRUCTION Main: Privacy Constructions Prevolution of main restorooms and kitchen in Administration Building to correct plumbing deficiencies and provide wheelthair accendability. Stremandoah Valley AREC Cattl	Minor Index: L022.002.002.01 Status Status <td>Line Transmit (ALM) Magnet Fredmin (Montestermen, Insulate Inc., expanded Medica, Source Four House (B15) \$1,000 Calls / UAAS </td> <td>Hard Preduct ACC (lock 200 mR) Harden Matter body (into Gauge area of intell conjugates) second of and form desamed, rank from the same that in the integrant and interference from issue 200 MB (integrant and issue and integrant and integrant and integrant and issue and integrant and integrant and issue and integrant and integrant and issue and integrant and issue and integrant and int</td> <td>State state - 100-400 and 1 Ministry and 200 application Derivation with 200 application Derivatio Derivatio Derivation Derivatio Derivation Derivation Derivation</td>	Line Transmit (ALM) Magnet Fredmin (Montestermen, Insulate Inc., expanded Medica, Source Four House (B15) \$1,000 Calls / UAAS	Hard Preduct ACC (lock 200 mR) Harden Matter body (into Gauge area of intell conjugates) second of and form desamed, rank from the same that in the integrant and interference from issue 200 MB (integrant and issue and integrant and integrant and integrant and issue and integrant and integrant and issue and integrant and integrant and issue and integrant and issue and integrant and int	State state - 100-400 and 1 Ministry and 200 application Derivation with 200 application Derivatio Derivatio Derivation Derivatio Derivation Derivation Derivation

College of Agriculture Life Sciences (CALS) Projects Status Report

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

ESTIMATED TOTAL FUND SOURCE PROJECT TEAMS CONTRACT COMPLETION PROJECT STATUS
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nspection and additional leak repairs. d for final cost quote. e-issued to new bidders. Severe labor shortage in Hampton ause delay.

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
	Hampton Roads AREC - Repair/Replace Roofs	Roofs of several buildings are failing and leaking into finished spaces: The 2000 wing of the Main Office and Lab (1101) has a flat membrane roof that is leaking into Office Spaces. The Pesticide Storage Building (1106), Garage and Workshop Buildings (1107 and 1108) and Head house (1105) have shallow to medium slope metal roofs leaking into chemical storage and work areas.		Maintenance Reserve -	HDH TBD	- TBD	Design is underway.
	Tidewater AREC - Batten Hall waterproofing	Batten Hall (portion of Building 0771) is subject to chronic flooding in basement requiring assessement of waterproofing and mitigation measures.	\$235,000	Maintenance Reserve -	WDP Associates TBD	- TBD	Project on hold pending TAREC drain cleaning.
PRO	DECT INITIATION / PLANNING STAGE						
	Eastern Virginia AREC - Bldg 0880 Experiment Building Renovation	Renovation and upgrade of existing under-utilized office, workshop and meeting space.	\$180,000	CALS / VAES	TBD	- TBD	Scope and budget development.
	Southern Piedmont AREC	Road and parking lot repairs.	\$25,000	CALS / VAES	- TBD	- TBD	Scope development and contractor cost evaluation.
	Ag Engineering Building, Bldg 0545 Roof and Drainage Repairs	Mitigate flooding into workshop areas and repair roof leaks.	TBD	Maintenance Reserve -	- TBD	- TBD	Work Order requested.
	Washington Street Greenhouse Complex Renovations	Repairs and upgrades to modernize aging controlled growth environments.	TBD	CALS / VAES / Maintenance Reserve	TBD TBD	- TBD	Overall scope and budget development. LED Lighting upgrade con
	Middleburg AREC - Treadmill Barn Beam installation	Removal of existing post and installation of new beam to allow installation of high-speed camera for horse treadmill.	TBD	CALS / VAES	- TBD	- TBD	Contractor quote has been requested.
	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	TBD	Capital and operational costs for project under review internally.
	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.		Maintenance Reserve -	TBD TBD	- TBD	Scope and budget development.
	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.	\$745,000	Maintenance Reserve -	TBD	- TBD	Scope and budget development.
	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 and budget development.
	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.
	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.
	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	- TBD	Scope and budget development.

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE

August	25,	2020
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Attachment C

ning.
valuation.
ED Lighting upgrade completed in one room (pilot project).
nder review internally.

August 25, 2020						
PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
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.
				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		Maintenance Reserve	TBD	- TBD	Scope and budget development.
	Grading (1218), and Insectary (1220) need exterior waterproofing, door repair, pointing repairs and gutters.			TBD		
Eastern Virginia AREC - Repair Experiment Building	Building HVAC system has failed and is not working. Electrical and plumbing are outdated. Building is not ADA	TBD	Maintenance Reserve	TBD	- TBD	Scope and budget development.
	accessible. General condition is deteriorating.			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		Maintenance Reserve —	TBD	TBD	Scope and budget development.
	Machinery Shed (0803) is in need or structural repairs. Basement of Annex (0812) floods and needs drainage corrections.			TBD		
Reynolds Homestead FRRC - Exterior Repairs	Main Building (1030) needs window replacement, repairs of rotting soffit/fascia/flashing, deck repair and	\$26,000	Maintenance Reserve -	TBD	- TBD	Coope and hudget development
	bathroom upgrade. Lath House (1030C) roof and trusses need repair.	\$20,000		TBD		Scope and budget development.
Shanandaah Vallay AREC Ranair/Ranlaga Shaan Rarn	Sheep Barn (0854) has rotten posts at ground level and leaking roof. The building should be evaluated for	¢76.000		TBD	- TBD	Scope and budget development.
Shenandoah Valley AREC - Repair/Replace Sheep Barn	repair or replacement.	\$76,000	Maintenance Reserve	TBD		
Couthour Diadmont ADEC Duilding Donaire	Packhouse (0897) restroom is in need of plumping repairs and upgrade to be reconfigured for ADA access.		Maintonanao Dacama	TBD	Coons and budget development	
Southern Piedmont AREC - Building Repairs	Packhouse roof is leaking and needs repair. Repair/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (0893A, 0893B, 0893C, 0893D)	\$122,000	Maintenance Reserve	TBD	- TBD	Scope and budget development.
Couthwast Vizzinia ADEC - Exterior Duilding Depairs	Repair roof, siding and door damage on Tobacco Barns 1 (0749) and 2 (0747), Cattle Barn #5 (0741) and	¢274.000	Maintenana Decen	TBD		Coope and budget development
Southwest Virginia AREC - Exterior Building Repairs	Workshop/Machinery Shed (0742).	\$374,000	Maintenance Reserve	TBD	- TBD	Scope and budget development.
Tidewater AREC - Building Repairs	Replace flooring in Main Office and Lab. Repair main parking lot. Repair electrical system in Service Building	\$108,000	Maintenance Reserve	TBD	- TBD	Scope and budget development.
	(0772).	\$108,000		TBD		
Smithfield Equine Complex	Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add bleachers,	TBD	Private	TBD	TBD	Scope and budget development.
	restrooms, announcer stand, fencing, quarantine facility.			TBD		
ON TECHNOLOGY (IT) EVALUTATION & PROJECTS						
	Upgrading network equipment to adequately manage current and future network data traffic, including VOIP,			CALS IT	Complete	Network equipment has been upgraded at all ARECs expansion capacity exists for near-term technology ne
Network Equipment Upgrades	in anticipation of Smart Farm initiatives.	\$128,000	CALS / VAES -	Cisco		
		\$104,000 initial cost	nd CALS / VAES	CALS IT	- Completed Summer 2019 All are function	
WeatherSTEM	New WeatherSTEM weather station and sky camera installation at all ARECs and three campus farm locations.	and \$37,000 annually		WeatherSTEM		All are functioning and data is readily accessible throu
	Installation of new audio and video equipment for ARECs to provide enhanced conferencing capability in			CALS IT		Phase 1 (five ARECs) is complete. Scope and schedule f
AREC A/V Upgrades, Phase 1	meeting rooms. Phase 1 includes Alson H. Smith, Eastern Shore, Hampton Roads, Southern Piedmont and Tidewater ARECs.	\$34,000	CALS / VAES	Lee Hartman and Sons	- Fall 2019	upon completion of Phase 1.

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

Attachment C

ARECs within the last year and is operating satisfactorily. Sufficient logy needs.
le through web and WeatherSTEM app interfaces.
hedule for Phase 2 project (remaining ARECs) to be evaluated

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
PI	ROJECTS IN PROGRESS					I	
	Pandwidth and Internet Connectivity	 ARECs: All ARECs have 200 Mb service except Shenandoah Valley (50 Mb), Southwest Virginia (10 Mb), Reynolds Homestead (2 Mb), Hampton Roads (50 Mb), and Virginia Seafood (30 Mb). Northern Piedmont Center has a 50 Mb cable connection. Goal is to upgrade all to 200 MB. Campus Farm locations: 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 only has cable service (50 Mb) to 1 building. 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 to facilities in the Livestock Center along Plantation Road, but service levels and coverage is being reviewed. 	t) \$117,000 Annually g	CALS / VAES	CALS IT	Ongoing	Alternative service providers are being sought for turf Livestock Facilities on Plantation Road.
	Bandwidth and Internet Connectivity				Various		
		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, or will soon be, or include Hampton Roads, Reynolds Homestead, and So service has been adequate. The Virginia Seafood ARE new building. The College is still reviewing the best w
	AREC Voice-Over Internet Protocol (VOIP) Conversion				Division of IT		
PR	ROJECT INITIATION / PLANNING STAGE						
	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 Citizens Band Radio Service (CBRS) 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.	TBD	TBD	TBD	- TBD	Funding request submitted to State.
					TBD		

College of Agriculture Life Sciences (CALS) Projects Status Report

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

Attachment C

or turfgrass center. Reviewing service levels and needs at

n be, completed at 6 of the 11 ARECs. Remaining locations and Southwest Virginia ARECs where the existing telephone d AREC will be converted to VOIP with the construction of their pest way to fund a conversion project at Middleburg.

DESIGN REVIEW FOR THE DATA AND DECISION SCIENCES BUILDING

Located on the corner of Prices Fork Road and West Campus Drive, the Data and Decision Sciences (D&DS) building will directly support the commonwealth's Technology Talent Pipeline initiative for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries.

This project is a transformative academic and physical addition to the northern edge of campus and will enhance the university's capability of translating the growing sea change of data into decisions across multiple disciplines and organizations. The new facility will provide 115,600 gross square feet of instructional, departmental, student study, and support space. Specialty spaces include the Deloitte Analytics and Trading Lab, and a multi-story Commons which will serve as a gathering space, a connector to the future Pamplin College of Business, and provide large classrooms, which are in high demand. The site is augmented with a variety of large and smaller-scale outdoor spaces to extend the collaborative, multi-disciplinary program into the immediate surroundings.

The project is in preliminary design with construction substantial completion anticipated fall 2022. This \$79 million project is funded as part of the 2019 Acts of Assembly.

Capital Project Information Summary – Data and Decision Sciences

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

Title of Project:

Data and Decision Sciences (D&DS) Building

Location:

The project site is located between the Drillfield and Prices Fork Road, in the North Academic District, directly north of Perry Street Garage in the midst of existing surface parking. Adequate space for future building footprints, identified in the Campus Master Plan, is accommodated to the east and west of the proposed site, including the Pamplin College of Business. The existing surface parking areas are intended to remain in the interim.

Current Project Status and Schedule:

The project is currently in preliminary design with working drawings slated to begin mid-year. Construction is anticipated to begin fall 2020 with substantial completion fall of 2022.

Project Description:

D&DS is comprised of two primary components. The first component supports the transdisciplinary teaching and research program of undergraduate instructional classrooms, laboratories, faculty, and researcher areas, and other support spaces, all within a U-shaped four-story complex topped with a partial fifth mechanical story. The second component is a multi-story academic commons wing which will provide high-demand large classrooms.

Brief Program Description:

This project provides spaces to support training in the art and science of data utilization, including: multiple large data processing class laboratories and classrooms with flexible configurations; behavior lab and the Deloitte Analytics and Trading Lab; student-team project and support; and shared faculty and researcher offices. In addition, state-of-the-art data visualization and access to intensified computing power will be supported.

Contextual Issues and Design Intent:

The site includes significant elevation and landscape transitions between Prices Fork Road at the north and other current and future projects to the south. Pedestrian routes are integrated with the planned Central Link North, a future accessible path, or "green link", identified in the master plan. The project requires infrastructure upgrades in this lightly developed area of campus. Hokie Stone and precast concrete clad facades are designed in a collegiate gothic expression, consistent with Campus Design Principles.

Funding:

This \$79 million total project authorization, funded through the 2019 Acts of Assembly, includes \$69 million of Virginia College Building Authority (21st Century Bonds) and \$10 million of Private Gifts (non-general fund).

Architect/Engineer:

Moseley Architects, Architect of Record, with RAMSA, Design Architect

Construction Manager at Risk:

Kjellstrom & Lee

Data and Decision Sciences Building

Board of Visitors Design Review

Liza L.C. Morris, NCARB Assistant Vice President for Planning and University Architect

August 25, 2020

VIRGINIA TECH.

Scope:

- Delivery method:
- Total project authorization:
- Design phase:

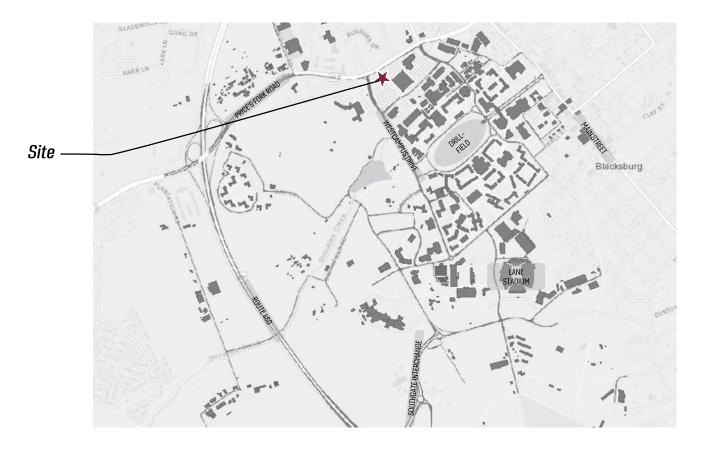
115,600 GSF*

Construction Manager at Risk

\$79 million

Preliminary Design

- Estimated construction start: November 2020
- Estimated construction completion: December 2022



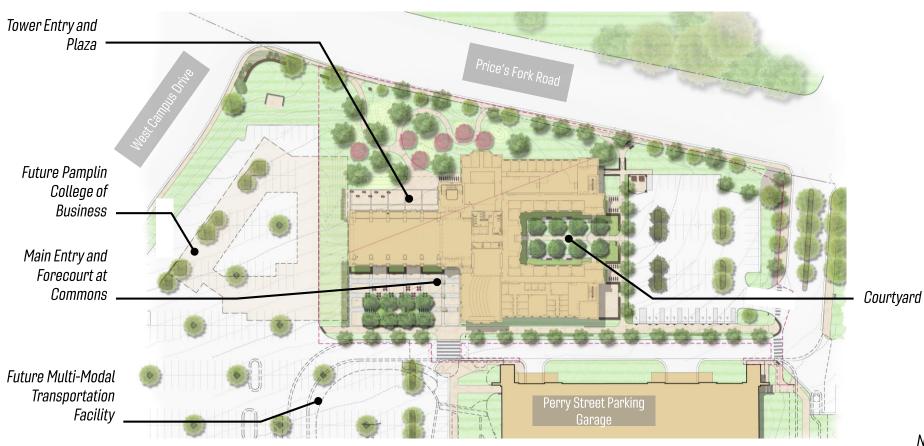
EXISTING CONDITIONS

Attachment C



SITE PLAN

Ν



Attachment C



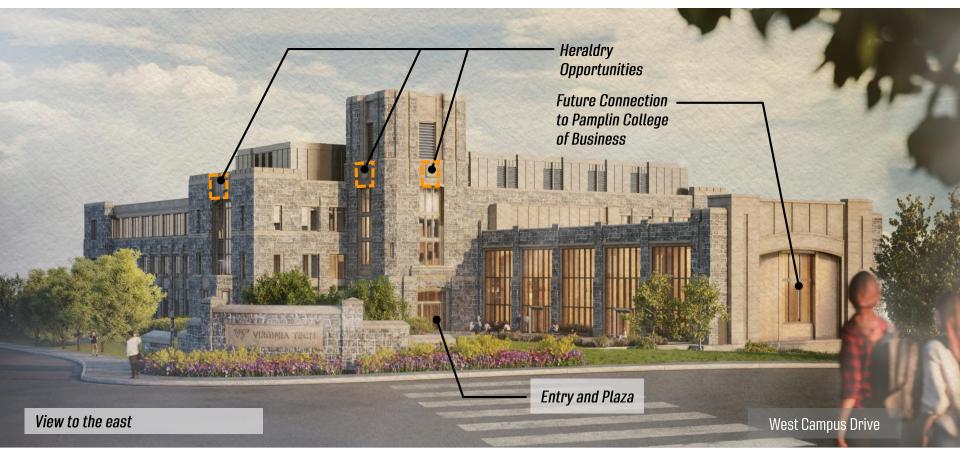
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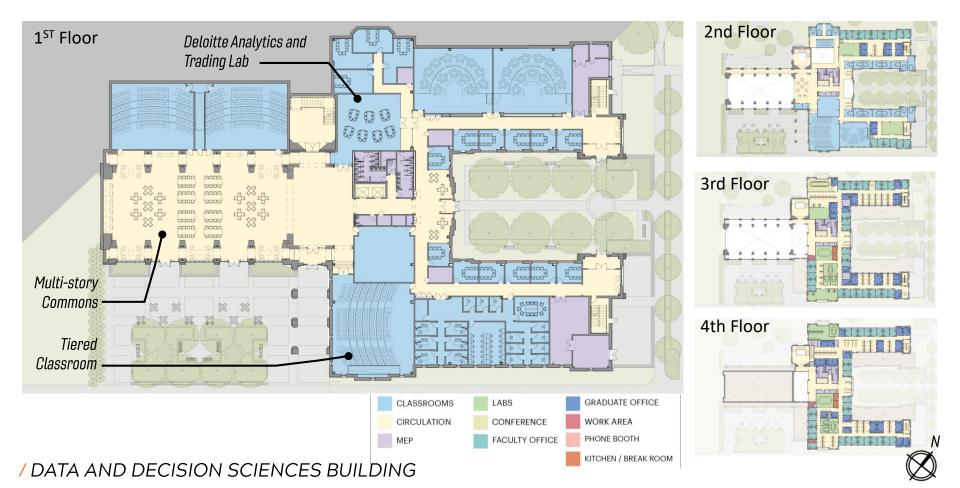
Attachment C



Attachment C



FLOOR PLAN



INTERIOR RENDERING

Attachment C



INTERIOR RENDERING

Attachment C



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

Future Agenda Items and Closing Remarks

BUILDINGS AND GROUNDS COMMITTEE

August 25, 2020

The Committee will discuss future agenda items and make closing remarks.