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01

EXECUTIVE SUMMARY

FRAMEWORK

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PROPOSED PROJECTS 9

COST SUMMARY 23

2022 CAMPUS PLAN UPDATE



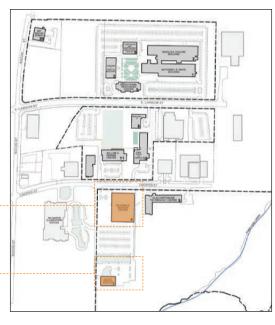
FRAMEWORK

This 2022 Campus Plan is an **update** to the **2015 Master Plan** for the **Main Durham Campus** only. This report does not update the planning for the Orange County Campus or the Northern Durham Center. The Orange County Campus was updated in 2021.

The team analyzed the 2015 plan to understand the issues the College is trying to address and if the proposed 2015 solutions are still relevant in 2022.

The 2015 Master Plan identified the following **primary action items:**

- 1) A new Health Sciences Education Building to address the high demand for healthcare professionals.
- 2) Renovation of the Newton Building due to the poor laboratory spaces for the applied technology programs.
- **3)A new Facilities Building** due to the existing facility being at end-of-life with some safety concerns.



Since the 2015 Master Plan, **2 of the 3 primary action items have been addressed**. The new William G. Ingram Center for Applied Learning and Technology and the Renovated Newton Center have addressed the need for modern laboratories and student spaces for the Applied Technology programs. The new Facility building was also constructed which allowed for demolition of the potentially unsafe existing facility. The **remaining primary action item** of a new **Health Sciences Education Building** is still a need for the region. With the recent pandemic, the need for healthcare training remains paramount for the region.

The 2015 Master Plan noted that accomplishing all three of the primary projects would enable a list of **secondary projects** that includes renovations of several buildings. However, since the Health Sciences Education Building has not been completed, these renovations have not yet been enabled.

Since 2015, the college has made two **property** acquisitions: west of building 11, which is a property with a building that served as a metal fabrication shop, and east of Building 8, which is a property with a building that currently is a warehouse for two companies. Both of these buildings would need extensive renovations to be properly fit-up to serve as academic buildings. In a 2021 facilities evaluation report, it was noted that renovations of these buildings would be extensive enough that the delta in cost for new construction would be low enough to consider new construction due to the constraints renovations force on a building program.



Buildings addressed in 2015 MP

- 3 Renovation Newton Building
- **7** Facilities Building
- 11 William G. Ingram Center

Recent property acquisitions

- **A** Metal Fabrication Building
- **B** Warehouse Building

Buildings pending renovation

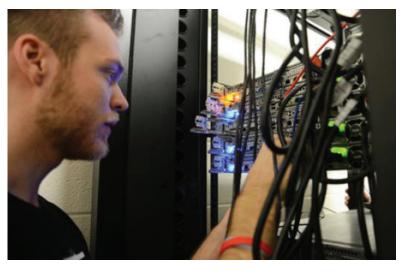
- 1 Nathaniel B. White Building
- 2 Harold K. Collins Building
- 3 Edward L. Phillips Building
- **5** Educational Resources Center
- 6 Corporate and Cont. Ed. Center
- 9 Glaxosmithkline Center

The COVID-19 pandemic has caused everyone to rethink and strategize the implication on our community's future. While **Health**Sciences training has maintained or even increased in demand directly due to the pandemic, there have been other programmatic shifts related to industry expansion in the region that may be indirectly influenced by the consequences of the pandemic among other factors.

The **Triangle Region** experienced a large migration of businesses during the pandemic because many companies decided to set up major hubs or headquarters in the area. Several national publications have the Triangle region as a **top 3** metropolitan area for growth. Durham Tech is part of the pipeline to provide new talent and continued training to support these new and existing growing businesses. **The Life Sciences industry** is growing very fast and is looking to find local talent; in addition, the **IT industry** is also expanding very fast in the region.

The College recognizes these challenges and is looking to expand their training bandwidth. The pandemic also transformed education during the years of lock-down to rely on a **hybrid approach to providing education**. Like all educational institutions, Durham Tech has embraced remote learning as a viable method of educating their students. However, in analyzing their students' needs, the College acknowledges a purely remote educational program is deficient to many students' needs and learning styles. Durham Tech believes **hands-on training** remains the best method for students to learn many of the critical skills they will need in their future workplaces. The need for laboratories and classrooms remain with the **hybrid learning model**.









Collaborative workshop 06/09/2022



PROCESS

The 2022 Campus Plan Update was developed through a series of collaborative workshops between Durham Tech Staff, the Design Consultant, and Strategic Advisors. In these workshops we developed the campus goals, evaluated data, and ultimately developed updated concepts for the campus. We worked together and developed a survey for students and staff that helped the team understand trends that affect the planning of the campus. The team also had several walkthroughs of the campus to analyze the success and deficiencies of the exterior spaces in regard to the strategic goals. The Design Consultant was also tasked with evaluating the campus for ADA deficiencies and these are noted in this plan. This information collection culminated in updating the planning concepts for the Campus. The Design Consultant provided the College with cost models that are based around the planning concepts so that Durham Tech can take next steps to acquire funding to execute these concepts.

CAMPUS GOALS

Recently, **Durham Tech** updated their **Strategic Plan** that factored the pandemic's influence on our community. In this Strategic Plan, the College pledged to create a **Welcoming Campus** that would be an environment of belonging and inclusiveness reflected by their **One College model**. They also pledge to teach in modern learning spaces using **Today's Technology** so that students are prepared for the modern workforce.

Their Pathways to Institutional Excellence notes that they need to develop teaching and learning spaces by building or renovating them with state-of-the-art technology and infrastructure. The strategic plan also notes that Durham Tech will strive to create green and sustainable campuses, minimizing the College's Carbon footprint, and engaging in campus beautification efforts that culturally reflect Durham and Orange Counties' communities.

Using the **Strategic Plan as a foundation** the **2022 Campus Plan Update** establishes these goals:



PROVIDE MORE CAPACITY FOR HEALTH SCIENCES, LIFE SCIENCES, INFORMATION TECHNOLOGY, AND APPLIED TECHNOLOGY



ENHANCE CAMPUS IDENTITY



OUTDOOR

IMPROVE THE QUALITY OF CAMPUS OUTDOOR SPACES



INDOOR

IMPROVE CAMPUS INTERIOR SPACES



CREATE A MORE CONNECTED CAMPUS THAT FEELS WELCOMING FOR ALL STUDENTS WITHOUT BARRIERS



PROVIDE AMENITIES AND SUPPORT SPACES FOR STUDENTS AND STAFF



PROVIDE OPPORTUNITIES FOR SUSTAINABILITY, REDUCED CARBON FOOTPRINT, AND ENHANCING STUDENTS' WELLBEING

PROPOSED PROJECTS

The proposed projects have been subdivided into three different categories depending on the scope of work they will cover.

ACADEMIC BUILDING PROJECTS

These projects focus primarily on the addition or renovation of buildings to provide more capacity for their respective educational field. In addition, these projects nest renovations/enhancements to the surrounding building area and include indoor+outdoor amenities for students+staff.

For detailed information about these projects, refer to page 37.

Health Sciences Education building (Future building 12)
Life Sciences Education building (Future building 13)
Applied Technologies building (Future building 14)
Building 9 Interior refresh

MAJOR CAMPUS IMPROVEMENTS

These projects focus on enhancing the campus identity and experience. They aim to improve the existing outdoor spaces and the appearance of Lawson Street.

For detailed information about these projects, refer to page 47.

Lawson Street improvements*

Enhance North Quad

Enhance Building 1&2 courtyard

GENERAL IMPROVEMENTS

These projects focus on improving campus functionality, safety, and circulation for the students+staff. Additionally, the Landscape Enhancements will improve the overall appearance of the outdoor spaces.

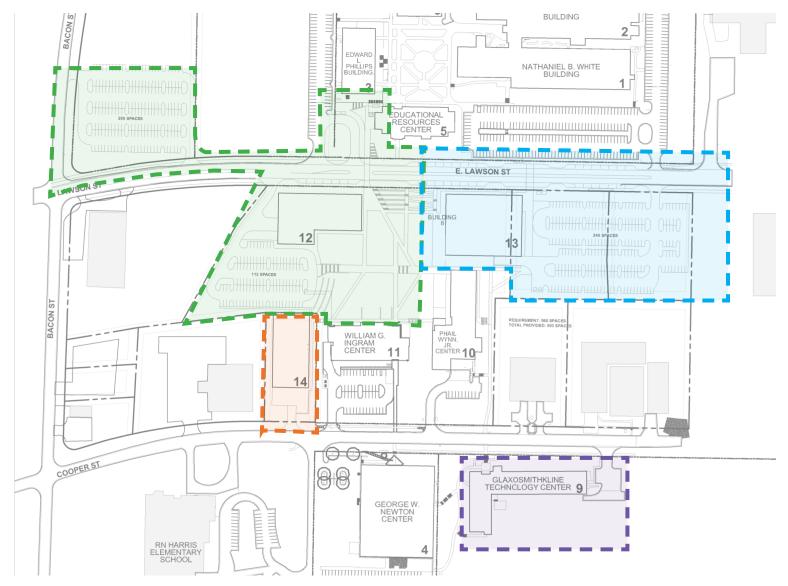
For detailed information about these projects, refer to page 53.

ADA improvements

Landscape enhancements

Wayfinding refresh

^{*} For budgeting purposes, Lawson Street improvements have been nested into Building 12 and Building 13 projects



ACADEMIC BUILDING PROJECTS

- Health Sciences Education Building (Future Building 12)
- Life Sciences Education Building (Future Building 13)
- Applied Technologies Building (Future Building 14)
- Building 9 Interior Refresh

CONSTRUCTION OF A NEW HEALTH SCIENCES EDUCATION BUILDING (FUTURE BUILDING 12)

Opportunities to achieve these strategic goals*



Provide for **Health Sciences** education



Improve campus identity



Improve the quality of campus outdoor spaces



Improve the quality of indoor spaces



Create a more **connected campus** that feels welcoming for all students



Provide **amenities** and support spaces for students and staff



Provide for **sustainability** and enhancing students' well-being

Components

New 80,000 GSF classroom/lab building

Pedestrian bridge that links to the Northern campus

Lawson streetscape improvements

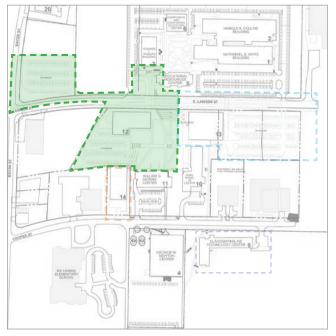
Campus green space and landscape improvements

2 surface parking lots

Building 5 renovation for pedestrian bridge and vehicular plaza



Rendered view



Project boundary

^{*}See page 37 for more information on **how** to achieve the strategic goals.

CONSTRUCTION OF A NEW LIFE SCIENCES EDUCATION BUILDING (FUTURE BUILDING 13)

Opportunities to achieve these strategic goals*



Provide for Life Sciences education



Improve campus identity



Improve the quality of campus outdoor spaces



Improve the quality of **indoor spaces**



Create a more **connected campus** that feels welcoming for all students



CONNECTION

Provide amenities and support spaces for students and staff



Provide for **sustainability** and enhancing students' well-being

Components

New 35,280 GSF lab and classroom building

Demolition of 2 buildings

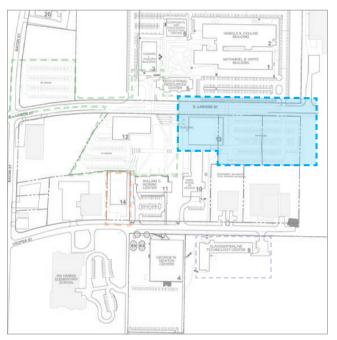
Surface parking lot

Lawson streetscape improvements

Campus green space and landscape improvements



Rendered view





^{*}See page 41 for more information on **how** to achieve the strategic goals.

CONSTRUCTION OF A NEW APPLIED TECHNOLOGIES BUILDING (FUTURE BUILDING 14)

Opportunities to achieve these strategic goals*



Provide for **Applied Technologies** education



Improve the quality of indoor spaces



Create a more **connected campus** that feels welcoming for all students



Provide amenities and support spaces for students and staff



Provide for **sustainability** and enhancing students' well-being



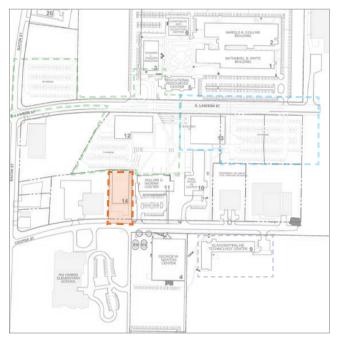
Components

New **20,000 GSF** lab and classroom building

Demolition of Existing Building



Aerial rendered view





^{*}See page 44 for more information on **how** to achieve the strategic goals.

BUILDING 9 INTERIOR REFRESH

Opportunities to achieve these strategic goals*



Provide for modern Information Technology education



Improve the quality of campus outdoor spaces



Improve the quality of indoor spaces



Provi

Provide amenities and support spaces for students and staff



Provide for **sustainability** and enhancing students' well-being

Components

IT labs to replace vacated health Sciences spaces.

Student study spaces

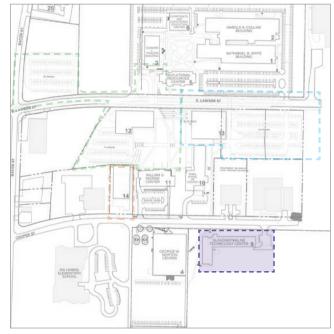
Coffee shop or kiosk

ADA improvements

Landscape improvements

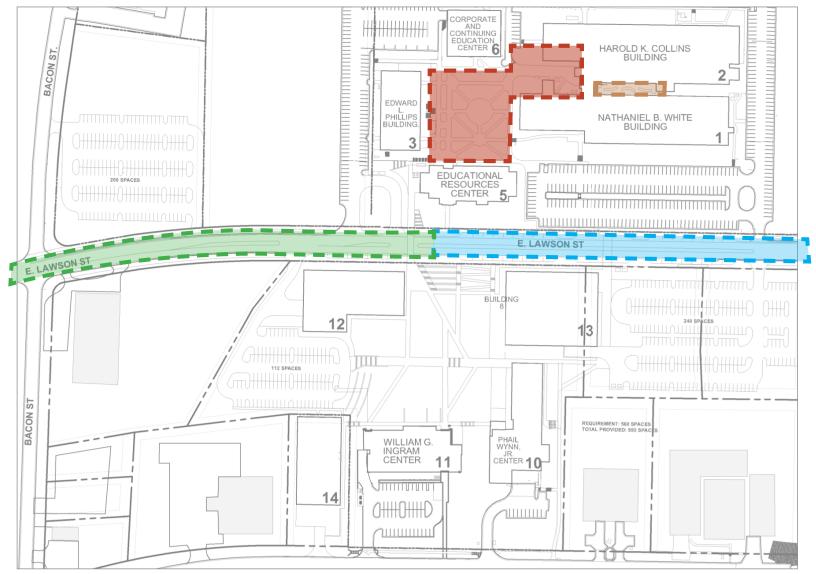


Existing conditions



Project boundary

^{*}See page 45 for more information on $\pmb{\mathsf{how}}$ to achieve the strategic goals.



MAJOR CAMPUS IMPROVEMENTS

Lawson St. improvements***

*** For budgeting, Lawson Street improvements have been nested into Building 12 and Building 13 projects



Enhance Building 1&2 Courtyard

LAWSON STREET IMPROVEMENTS

Opportunities to achieve these strategic goals*

OUTDOOR

Improve the quality of campus outdoor spaces

Create a more **connected campus** that feels welcoming for all students

(0)

CONNECTION

Provide for **sustainability** and enhancing students' well-being

SUSTAINABLE

Components

Bury utility lines

Landscaped median and edges

Improved sidewalks

Traffic calming: Street parking

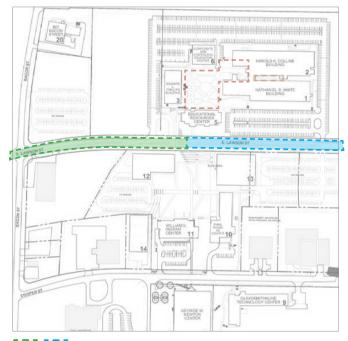
Bike lanes

Connections to campus outdoor space

*** For budgeting, Lawson Street improvements have been nested into Building 12 and Building 13 projects



Rendered view



Project boundary

^{*}See page 47 for more information about this project.

ENHANCE NORTH QUAD

Opportunities to achieve these strategic goals*

Improve the quality of campus outdoor spaces

OUTDOO

Create a more connected campus that feels welcoming for all students



CONNECTION

Provide amenities and support spaces for students and staff



Provide for **sustainability** and enhancing students' well-being

SUSTAINABLE

Components

Enhanced landscaping

Added furniture with more opportunities for seating

Connect the building 3 pit with the Quad

Connect building 1&2 by removing barriers both physical and visual



Existing Conditions





^{*}See page 51 for more information about this project.

ENHANCE BUILDING 1&2 COURTYARD

Opportunity to achieve these strategic goals*

OUTDOOR

Improve the quality of campus outdoor spaces

AMENITIES

Provide **amenities** and support spaces for students and staff

SUSTAINABLE

Provide for **sustainability** and enhancing students' well-being

Components

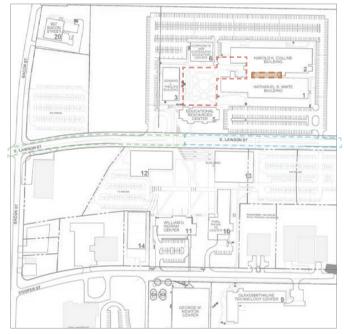
Building enhancements

Enhanced landscaping

Equipment screening

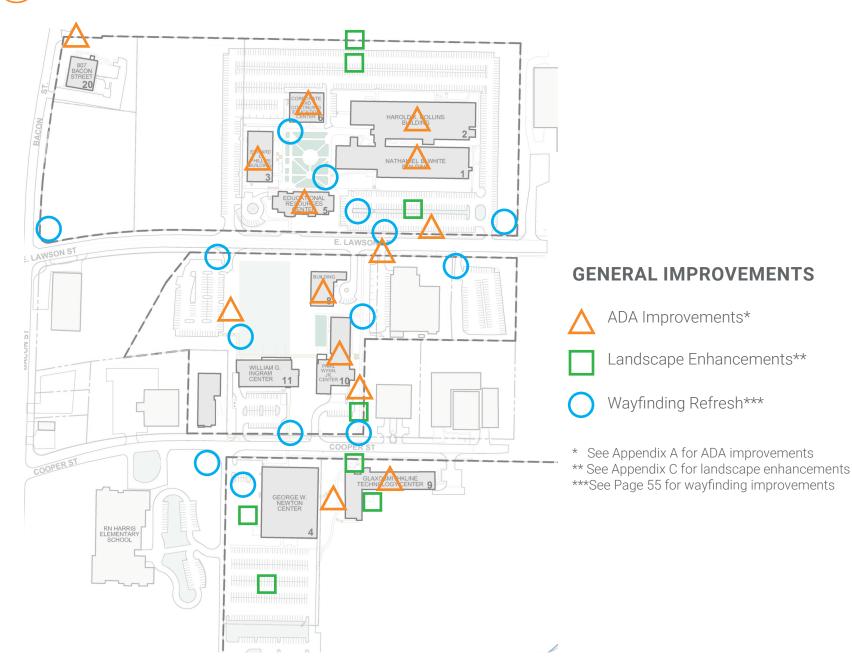


Existing Conditions





^{*}See page 52 for more information about this project.



ADDRESS ADA CAMPUS ISSUES

Opportunity to achieve these strategic goals:



Improve the quality of campus outdoor spaces



Create a more **connected** campus

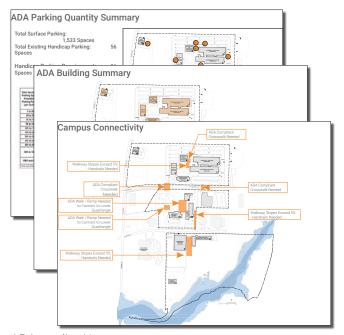
Components

Building enhancements

Campus exterior pathway enhancements



Rendered view



ADA studies**

 $^{{}^{\}star}\mathrm{See}$ page 53 for more information about this project.

^{**}See **Appendix A** for full ADA report

CAMPUS LANDSCAPE ENHANCEMENTS

Opportunity to achieve these strategic goals*



Improve the quality of campus **outdoor spaces**



Create a more **connected campus** that feels welcoming for all students



Provide for **sustainability** and enhancing students' well-being

Components

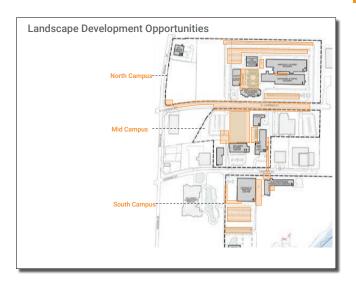
Planted landscape screen

Planting palette

Improved drainage

Seating walls





^{*}See page 54 for more information about this project.

^{**}See **Appendix C** for more information about Landscape Improvements

WAYFINDING REFRESH

Opportunities to achieve these strategic goals:



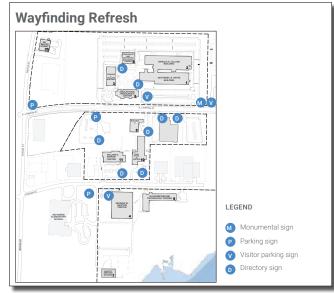
Create a more connected campus that feels welcoming for all students

Components

Updated campus signage and exhibits

Integrate **QR codes** on exhibits





*See page 55 for more information about this project.

Wayfinding refresh study

\$ COST ESTIMATE

SKANSKA

DTCC - Campus Master-Plan
Durham Technical Community College
Durham, NC
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

PROJECT COST SUMMARY									
	Constr. \$	Escalation \$			Soft \$		Project \$		
Description	Total	Start	Duration	MoC	%	Total	%	Total	Total
A. Building 12 (Health Science)	\$58,605,400	Q3/2024	22 mos	Q3 / 2025	23.1%	\$13,520,000	33.0%	\$23,801,000	\$95,926,400
B. Building 13 (Life Science Ed)	\$28,006,500	Q3/2024	20 mos	Q2/2025	21.6%	\$6,044,000	33.0%	\$11,237,000	\$45,287,500
C. Building 14 (Applied Technology)	\$12,162,800	Q2/2026	18 mos	Q1/2027	31.6%	\$3,838,000	33.0%	\$5,280,000	\$21,280,800
D. ADA Enhancements	\$1,449,900	Q2/2024	3 mos	Q3/2024	17.5%	\$254,000	20.3%	\$345,000	\$2,048,900
E. Building 1 & 2 Courtyard Enhancements	\$1,260,700	Q2/2025	3 mos	Q3 / 2025	23.6%	\$297,000	22.3%	\$347,000	\$1,904,700
F. North Quad Enhancements	\$1,696,400	Q2/2025	6 mos	Q3/2025	23.6%	\$400,000	22.3%	\$466,000	\$2,562,400
G. Campus Landscape Enhancements	\$366,800	Q2/2024	6 mos	Q3/2024	17.5%	\$64,000	22.3%	\$96,000	\$526,800
H. Wayfinding Refresh	\$315,300	Q2/2024	3 mos	Q3/2024	17.5%	\$55,000	13.0%	\$48,000	\$418,300
I. Building 9 Refresh	\$7,720,100	Q2 / 2028	12 mos	Q4/2028	38.6%	\$2,982,000	35.0%	\$3,746,000	\$14,448,100
Total Project Cost	\$111,583,900					\$27,454,000		\$45,366,000	\$184,403,900

02

SURVEY STUDENT + STAFF INPUT



Survey response summary

*See **Appendix B** for full survey data for both student and staff surveys.

**The survey data shown in the following pages is not the product of a scientific process and is not representative the entire Durham Tech Community College population. The survey was targeted to a specific group of students and the data obtained from the survey is intended for trending purposes only

STUDENT INPUT 25
STAFF INPUT 28

2022 CAMPUS PLAN UPDATE

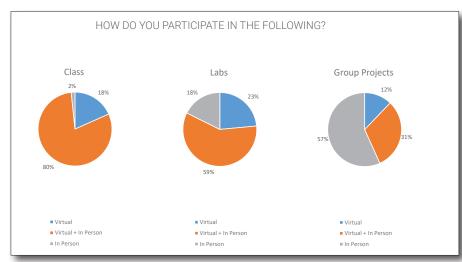
? SURVEY DATA | STUDENTS

The data was obtained from 107 students from DTCC who filled out an on-line survey. While a large percentage of the student population participates in classes and labs virtually, this data reflects not only how much these areas are being used, but how much they are and will be needed in the future. The survey helped the OBA team obtain trends about the usage of the campus spaces and their condition, which were an essential component while pointing out the goals for the 2022 Campus Plan Update.

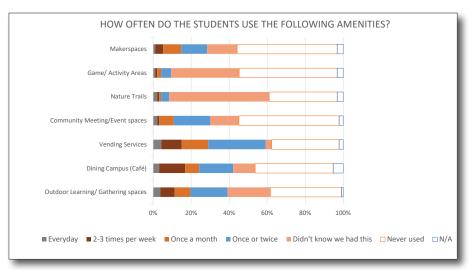
The data trends obtained can be classified into 5 different categories: Services/ amenities, dining facilities, collaboration spaces, outdoor spaces, and wayfinding

SERVICES/AMENITIES:

- -Overall it seems that their usage is low, but this could be influenced by the percentage of students that currently participate in classes virtually.
- -There is a lack of awareness of these spaces, or maybe there are some limitations such as lack of staffing, scheduling, area (sqft), and/or lack of options.
- -Students expressed the need for comfortable spaces in between classes.
- -The 2022 Campus Plan Update aims to incorporate more of these spaces into the new buildings and renovations to satisfy these needs



Too see full size chart, refer to Appendix B



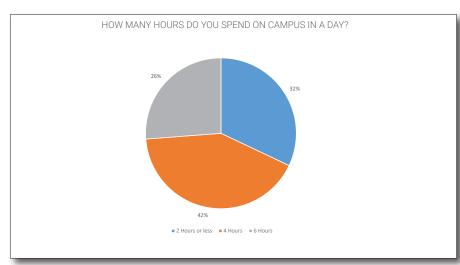
Too see full size chart, refer to **Appendix B**

^{*}See **Appendix B** for full survey data for both student and staff surveys.

? SURVEY DATA | STUDENTS

DINING FACILITIES:

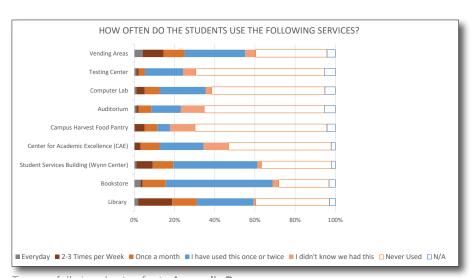
- -About 3/4 of the students spend at least 4 hours or more on campus in a day, which means that they most likely will need a snack/meal break to feel comfortable during classes.
- -The data and student responses indicates that the current facilities do not fully meet the students need.
- -More capacity and options are needed around campus.
- -The 2022 Campus Plan Update focuses on providing distributed locations for dining, coffee, and vending



Too see full size chart, refer to Appendix B

COLLABORATION SPACES:

- -The data reflects that the students do use some spaces, such as the library, as a collaboration space.
- -The students expressed the need for more options of these spaces throughout campus.
- -The 2022 Campus Plan Update focuses on integrating more collaboration spaces in the new buildings to improve the students experience



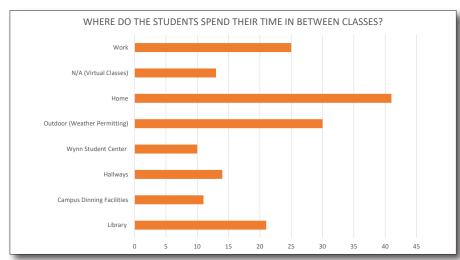
Too see full size chart, refer to Appendix B

^{*}See Appendix B for full survey data for both student and staff surveys.

? SURVEY DATA | STUDENTS

OUTDOOR SPACES:

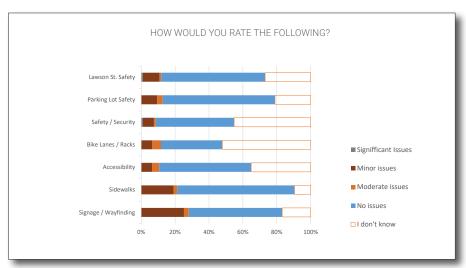
- -There is a moderate use of the outdoor spaces among the students.
- -The students expressed that there is a need for more and a need to improve for the existing ones
- -While many students spend their time in between classes at home, improved outdoors spaces may encourage them to interact and collaborate with their peers while reducing their time in transit.
- -The 2022 Campus Plan Update aims to enhance the overall campus identity and quality of outdoor spaces to increase the enjoyment and student performance in classes.



Too see full size chart, refer to Appendix B

WAYFINDING:

- -The data and student responses highlights the need to update campus wayfinding.
- -The 2022 Campus Plan Update will incorporate a renovation of the campus signage and wayfinding, as well as improving overall circulation and access.



Too see full size chart, refer to Appendix B

^{*}See **Appendix B** for full survey data for both student and staff surveys.

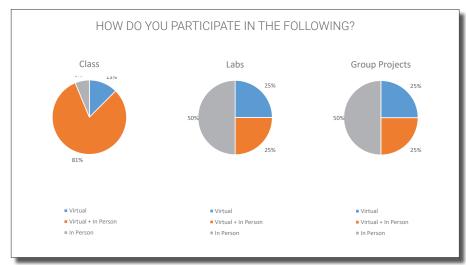
? SURVEY DATA | STAFF

The data was obtained from **14 staff members** from DTCC who filled out an **on-line survey**. While many of the staff members participate in classes and labs virtually, this data reflects not only how much these areas are being used, but how much they are and will be needed in the future. The survey helped the OBA team obtain **trends** about the usage of the campus spaces and their condition, which were an essential component while pointing out the **goals for the 2022 Campus Plan Update**.

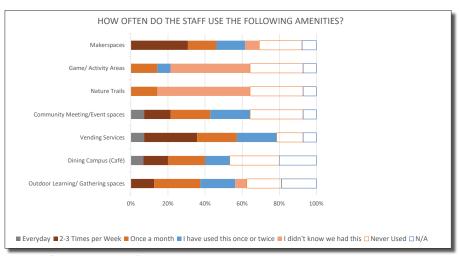
The data trends obtained can be classified into 5 different categories: Services/ amenities, dining facilities, collaboration spaces, outdoor spaces, and wayfinding.

SERVICES/AMENITIES:

- -Overall it seems that their usage is higher than the student population.
- -Staff members expressed the need for more amenities around campus since they spend the most time on campus compared to the students.
- -The 2022 Campus Plan Update aims to incorporate more of these spaces into the new buildings and renovations to satisfy these needs.



Too see full size chart, refer to Appendix B



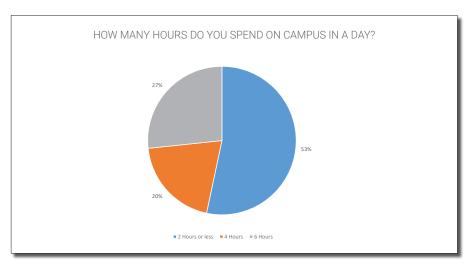
Too see full size chart, refer to Appendix B

^{*}See Appendix B for full survey data for both student and staff surveys.

? SURVEY CONCLUSIONS | STAFF

DINING FACILITIES:

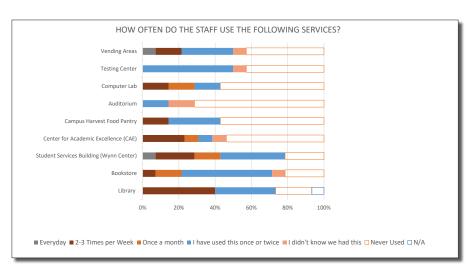
- -About 1/2 of the staff members spend at least 4 hours or more on campus in a day, which means that they most likely will need a snack/meal break to feel comfortable during classes.
- -The data reflects that the current facilities do not fully satisfy the staff needs for dining options.
- -Staff members expressed their need for more dining facility options, such as coffee kiosks and more vending facilities.
- -The 2022 Campus Plan Update focuses on providing flexibility to add more dining facilities and improve the existing ones.



Too see full size chart, refer to **Appendix B**

COLLABORATION SPACES:

- -The data reflects that the staff members do use collaboration spaces, but there could be more options offered.
- -The 2022 Campus Plan Update will focus on integrating more collaboration spaces on the new buildings to improve the students experience.



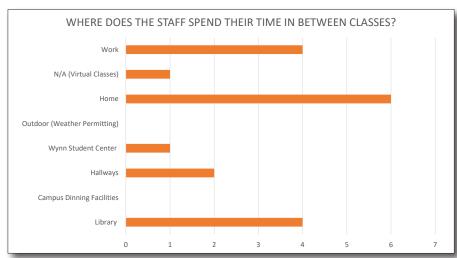
Too see full size chart, refer to Appendix B

^{*}See **Appendix B** for full survey data for both student and staff surveys.

? SURVEY CONCLUSIONS | STAFF

OUTDOOR SPACES:

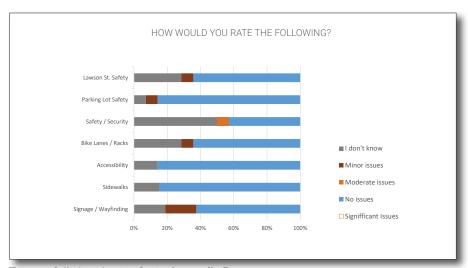
- -The staff members expressed that there is a need for more options for outdoor spaces and also a need of improvement for the existing ones.
- -The staff members expressed that outdoor learning spaces would be a great resource to provide to the students.
- -The 2022 Campus Plan Update aims to enhance the overall campus identity and quality of outdoor spaces to increase the enjoyment and student performance in classes.



Too see full size chart, refer to Appendix B

WAYFINDING:

- -The data and staff member responses highlights the need to update campus wayfinding.
- -The 2022 Campus Plan Update will incorporate a renovation of the campus signage and wayfinding, as well as improving overall circulation and access.



Too see full size chart, refer to Appendix B

^{*}See **Appendix B** for full survey data for both student and staff surveys.

OS CONCEPTS

ANALYSIS 32

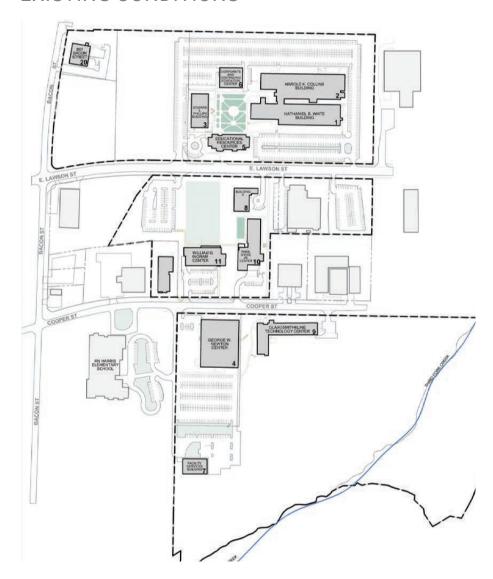
SITE PLAN 34

RENDERINGS 35

2022 CAMPUS PLAN UPDATE PROJECTS 37

2022 CAMPUS PLAN UPDATE

EXISTING CONDITIONS



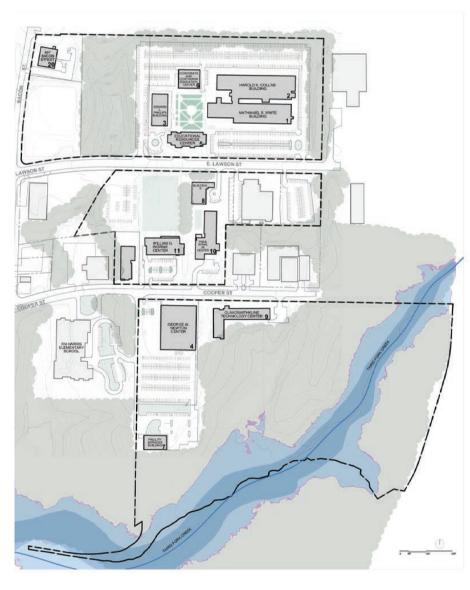
LEGEND

Campus Boundary Existing Building- Context

Stream/River

Existing Building- DTCC

NATURAL SYSTEMS



LEGEND

Campus Boundary

Stream/River

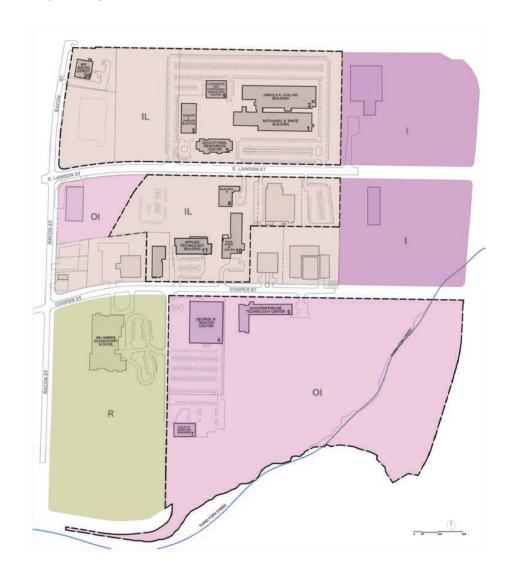
2' Contours



Green/ Open Space

Tree canopy Waterway 1% Flood Chance

ZONING

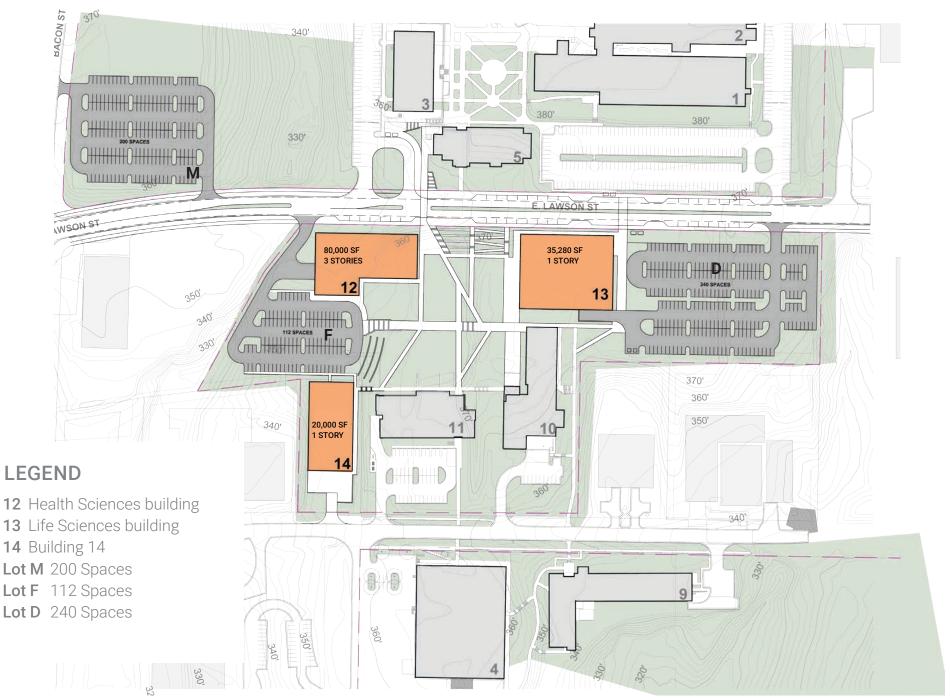


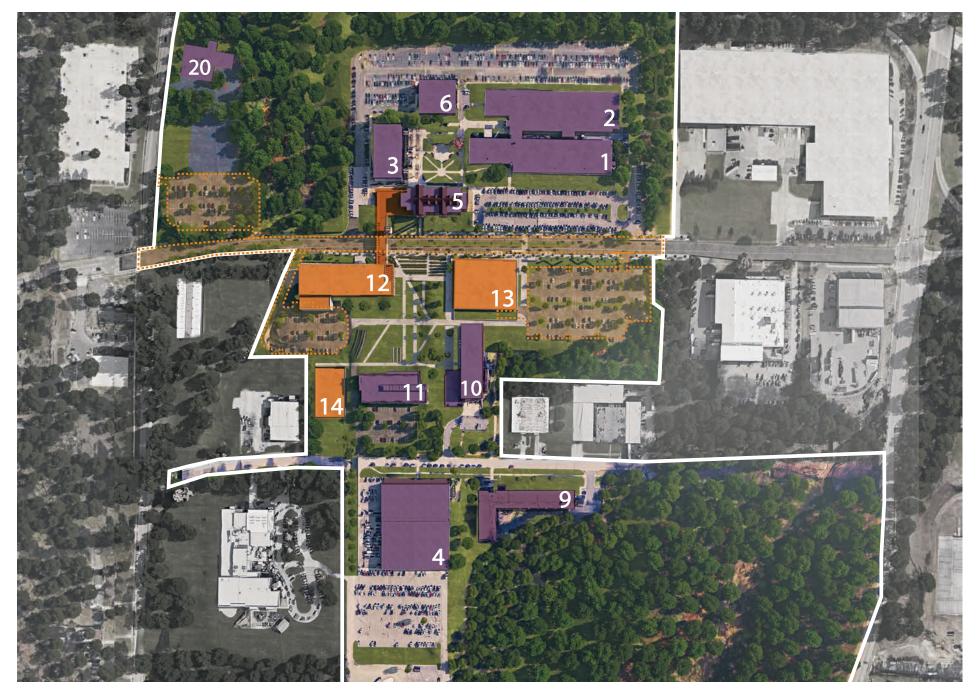
	I	L	OI		
Dimensional Standard	Min.	Max.	Min.	Max.	
Lot Area (Square feet)	5000	-	20000	-	
Lot Width (feet)	50	-		-	
Street Yard (feet)	-	20		15	
Side Yard (feet)	15	-		-	
Rear Yard (feet)	25	-		-	
Building Coverage (%)	-	60		60	
Height (feet)	-	50		90	

LEGEND

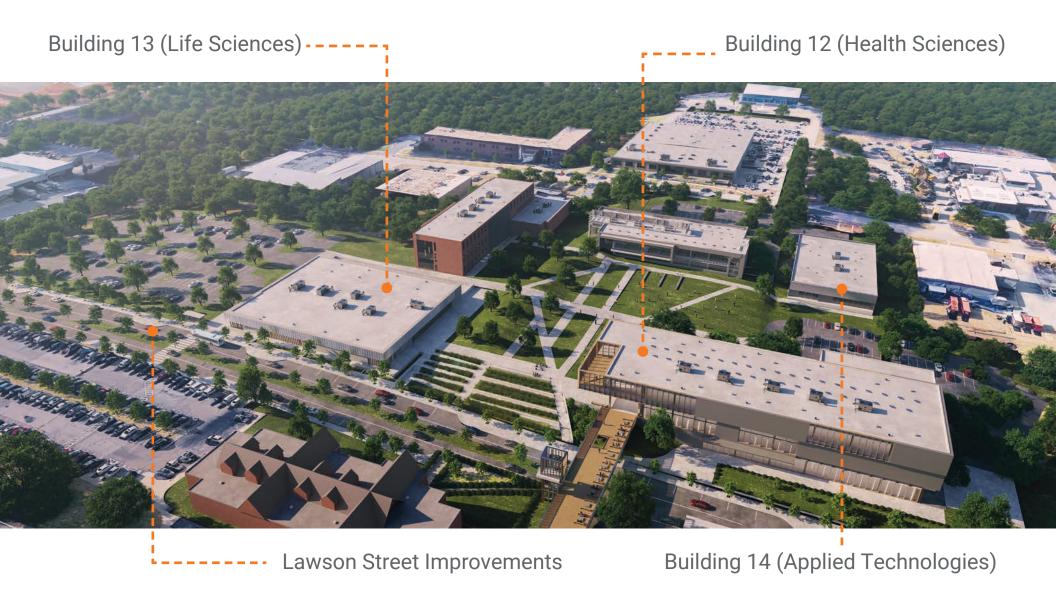
- Campus Boundary

 Stream/River
- Industrial (I)
- Office Industrial (OI)
- Industrial Light (IL)
 Residential (R)





CAMPUS SITE PLAN- RENDERED



AERIAL VIEW OF CAMPUS



BUILDING 12 (HEALTH SCIENCES)GOALS

- Provide a modern **Health Sciences** education building
- Create a building and pedestrian bridge that have strong architectural presence along Lawson St. Also improve Lawson St. streetscape to make it feel like a campus corridor.
- Improve the quality of campus **outdoor spaces** by enhancing the **landscape** and providing a new **green space** for students and staff
- Improve the quality of indoor spaces by providing abundant natural light, comfortable spaces, and good circulation, modern technology, and infrastructure
- Create a more **connected campus** by creating a pedestrian bridge that connects the northern and middle sections of the campus
- Provide amenities and support spaces for students and staff such as vending, student breakout space, coffee kiosks, and collaboration areas.
- Provide building certification through LEED or equivalent certification
 to ensure a sustainable project that reduces carbon footprint and
 enhances students' and staffs' well-being.



Rendering Concept



Rendering Concept

BUILDING 12 (HEALTH SCIENCES)COMPONENTS





Rendering Concept

LEGEND

- 1. New 80,000 GSF classroom/lab building
- 2. Pedestrian bridge that links to the northern campus
- 3. Lawson Streetscape improvements
- **4.** Campus green space and landscape improvements
- **5.** 2 surface parking lots
- **6.** Building 5 addition/ renovation for pedestrian bridge connection
- 7. Building 5 vehicular plaza



BUILDING 12 RENDERING





PEDESTRIAN BRIDGE RENDERING



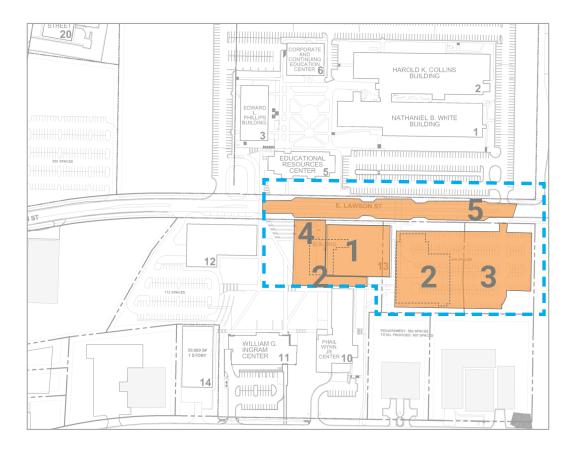
BUILDING 13 (LIFE SCIENCES)GOALS

- Provide a modern Life Sciences Education building
- Create a building that has strong architectural presence along Lawson St. Also improve Lawson St. streetscape to make it feel like a campus corridor.
- Improve the quality of campus **outdoor spaces** by enhancing the landscape and providing a new green space for students and staff
- Improve the quality of indoor spaces by providing abundant natural light, comfortable spaces, and good circulation, modern technology, and infrastructure
- Create a more connected campus by linking several key campus corridors together
- Provide amenities and support spaces for students and staff such as vending, student break out space, coffee kiosks, and collaboration areas.
- Provide building certification through LEED or equivalent certification
 to ensure a sustainable project that reduces carbon footprint and
 enhances students' and staffs' well-being.



Rendering Concept

BUILDING 13 (LIFE SCIENCES) COMPONENTS





LEGEND

- 1. New 35,280 GSF lab and classroom bldg
- 2. Demolition of 2 buildings
- 3. Surface parking lot
- 4. Campus green space5. Lawson streetscape improvement

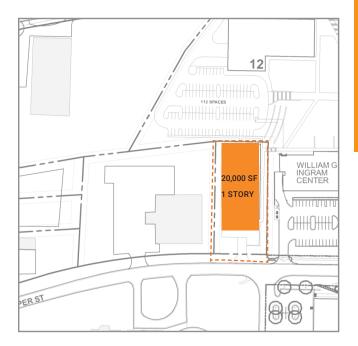




BUILDING 14 (APPLIED TECHNOLOGIES)GOALS

- Provide a modern Applied Technologies Building that relocates welding and HVAC from Bacon Street closer to the rest of the campus.
- Provide area for **campus storage** near the heart of the campus for to aid in facility management efficiency
- Improve the quality of **indoor spaces** by providing abundant natural light, comfortable spaces, and good circulation, modern technology, and infrastructure
- Provide **amenities** and support spaces for students and staff such as vending, student breakout space, coffee kiosks, and collaboration areas.
- Provide building certification through LEED or equivalent certification to ensure a sustainable project that reduces carbon footprint and enhances students' and staffs' well-being.





COMPONENTS

- **1.** New 20,000 GSF lab, classroom, and campus storage bldg
- 2. Demolition of existing building

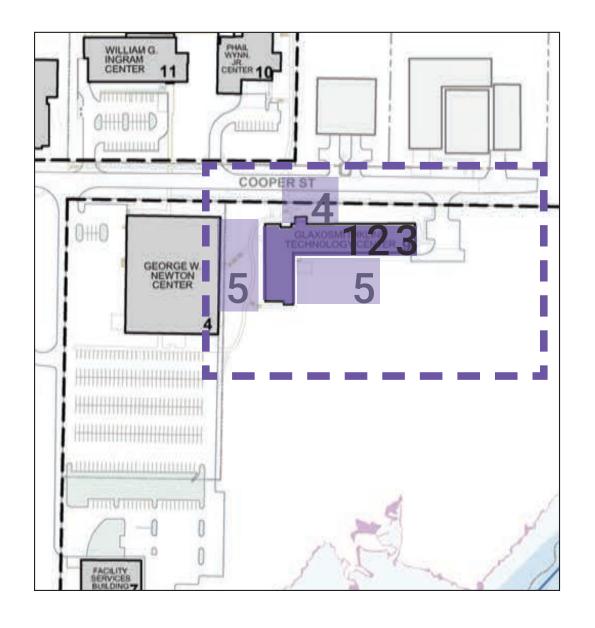
BUILDING 9 REFRESH | GOALS

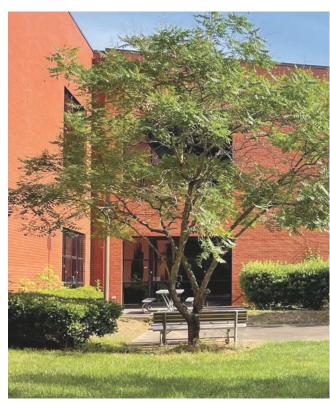
- Provide more capacity for modern Information Technology education by adding additional classrooms and laboratories where health sciences have vacated
- Improve the quality of campus outdoor spaces by allowing access and further developing the inner courtyard and make some modifications to the landscape along the building perimeter
- Improve the quality of **indoor spaces** by modernizing the technology and infrastructure of the building
- Renovate amenities to better serve the students and staff such as coffee kiosks and studying spaces
- Provide building certification through LEED or equivalent certification
 to ensure a sustainable project that reduces carbon footprint and
 enhances students' and staffs' well-being.



Existing Conditions

BUILDING 9 REFRESH | COMPONENTS





Existing Conditions

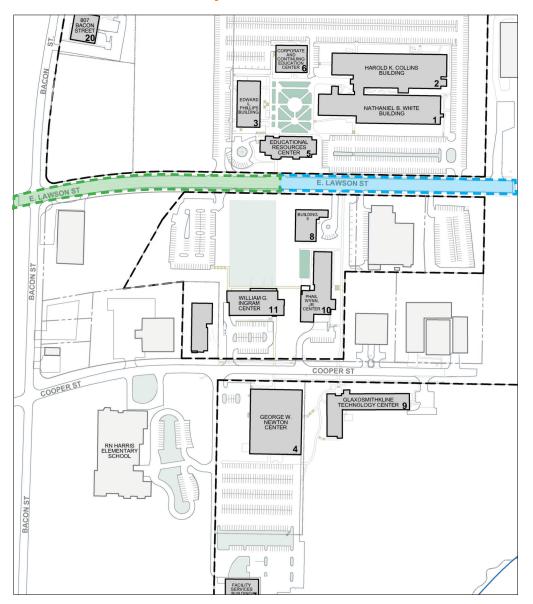
LEGEND

- 1. IT labs to replace Health Sciences spaces.
- Add student study spaces
 Add a coffee shop or kiosk

- 4. ADA improvements5. Landscape Improvements

PROJECTS | MAJOR CAMPUS IMPROVEMENTS

LAWSON ST. | IMPROVEMENTS





Existing Conditions

LEGEND

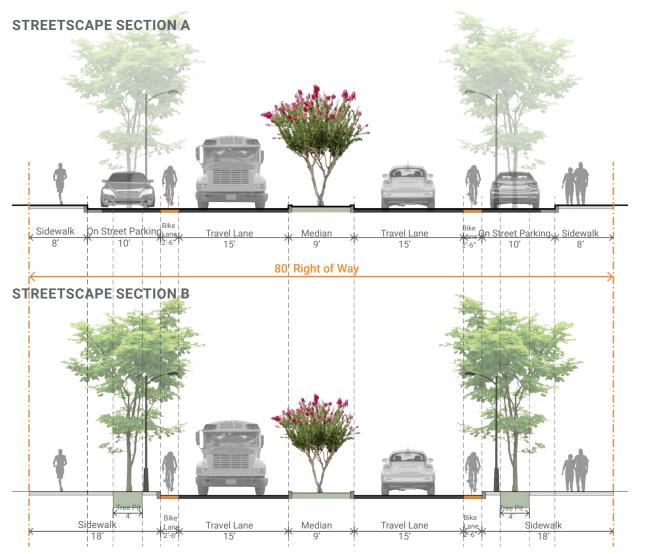
Building 12 Building 13

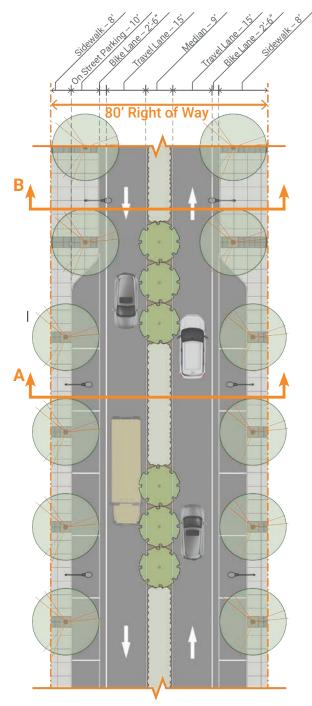
COMPONENTS

Utility line removal
Landscaped median
Improved sidewalks
Traffic calming: street parking
Bike lanes
Landscape edges
Connections to campus outdoor space
*** For budgeting, Lawson Street improvements have been nested into Building 12 and Building 13 projects

PROJECTS | MAJOR CAMPUS IMPROVEMENTS

LAWSON ST. | IMPROVEMENTS





STREETSCAPE ENLARGED PLAN



LAWSON STREET RENDERING



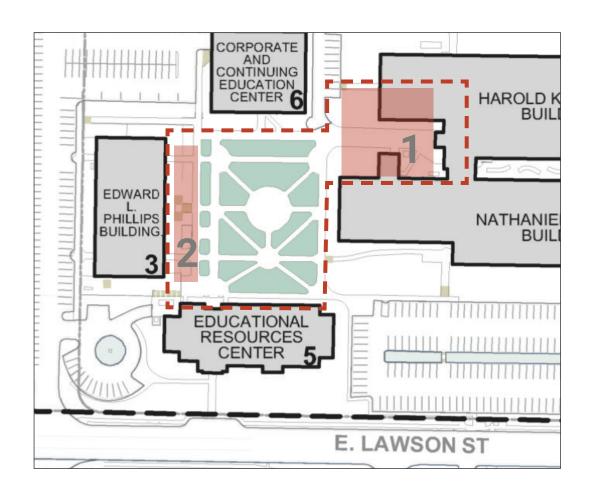


LAWSON STREET RENDERING



PROJECTS | MAJOR CAMPUS IMPROVEMENTS

NORTH QUAD | ENHANCEMENT







Existing Conditions

LEGEND

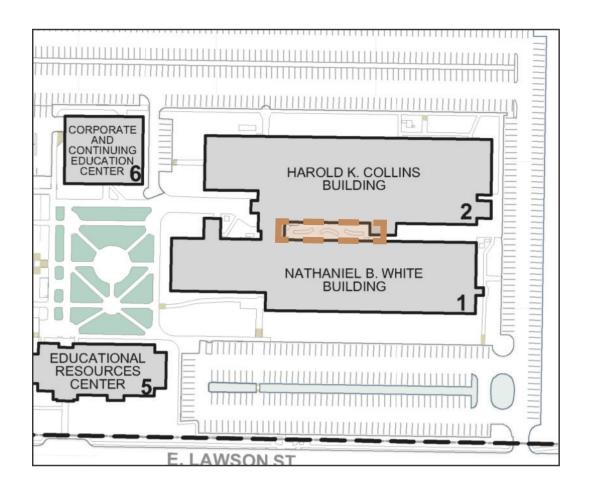
- 1. Better connection to Bldg 1+2
- 2. Connect Building 3 pit to upper courtyard

COMPONENTS

More seating capacity Improved drainage More shaded areas More vegetation

PROJECTS | MAJOR CAMPUS IMPROVEMENTS

BUILDING 1 & 2 COURTYARD | ENHANCEMENT





Existing Conditions

COMPONENTS

Improved landscaping

Screen for transformer

Opportunity for mural on Building 2

Overhead string lighting

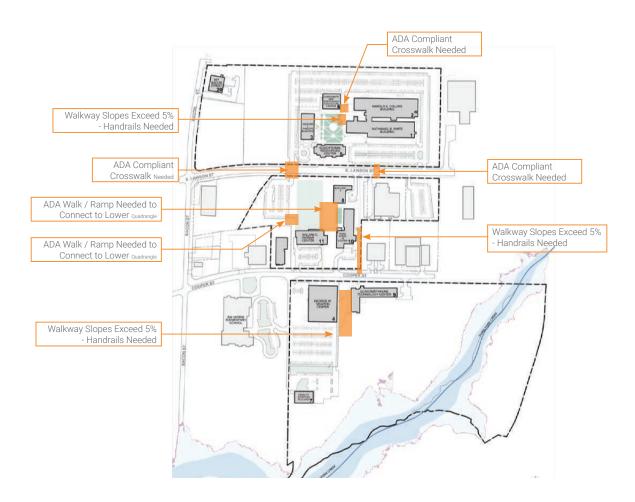
Overhead door to open classroom to courtyard

Furniture improvements

Shade structures

PROJECTS | GENERAL IMPROVEMENTS

ADA IMPROVEMENTS





Rendered view

COMPONENTS

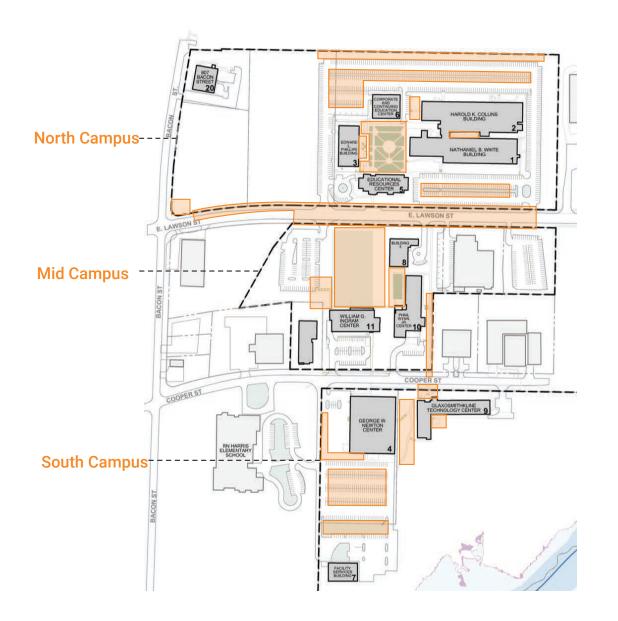
Building enhancements

Campus exterior pathway enhancements

ADA CAMPUS CONNECTIVITY STUDY

PROJECTS | GENERAL IMPROVEMENTS

LANDSCAPE ENHANCEMENTS





Existing Conditions

COMPONENTS

Planted landscape screen

Planting palette

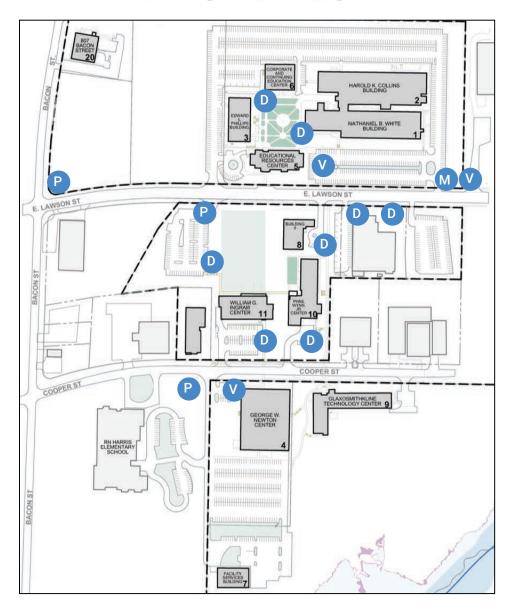
Improved drainage

Seating walls

For more details see **Appendix C**

PROJECTS | GENERAL IMPROVEMENTS

WAYFINDING REFRESH







Below are our recommendations for items to be replaced or added to address campus wayfinding needs.

LEGEND

- Monumental signage opportunity
- Parking signage opportunity
- Visitor parking signage opportunity
- Directory signage opportunity

The wayfinding refresh will incorporate the addition of updated exhibits with QR codes, which will facilitate updates as campus grows.

APPENDIX

	APPENDIX A	
57	A.1 ADA EVALUATION	
65	A.2 BUILDING ADA EVALUATION	
	APPENDIX B	
74	STUDENT+ STAFF SURVEY	
	APPENDIX C	

LANDSCAPE IMPROVEMENTS 97

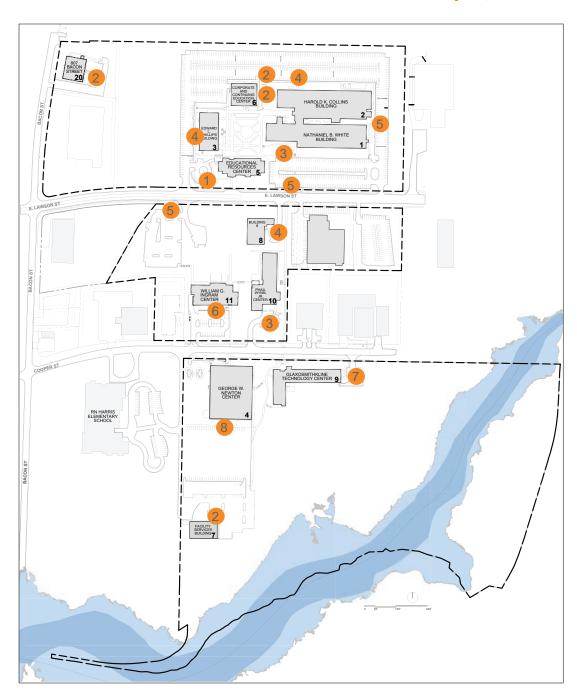
APPENDIX D

COST ESTIMATE 105

APPENDIX E

MEETING MINUTES 146

ADA PARKING CONDITIONS | QUANTITY SUMMARY



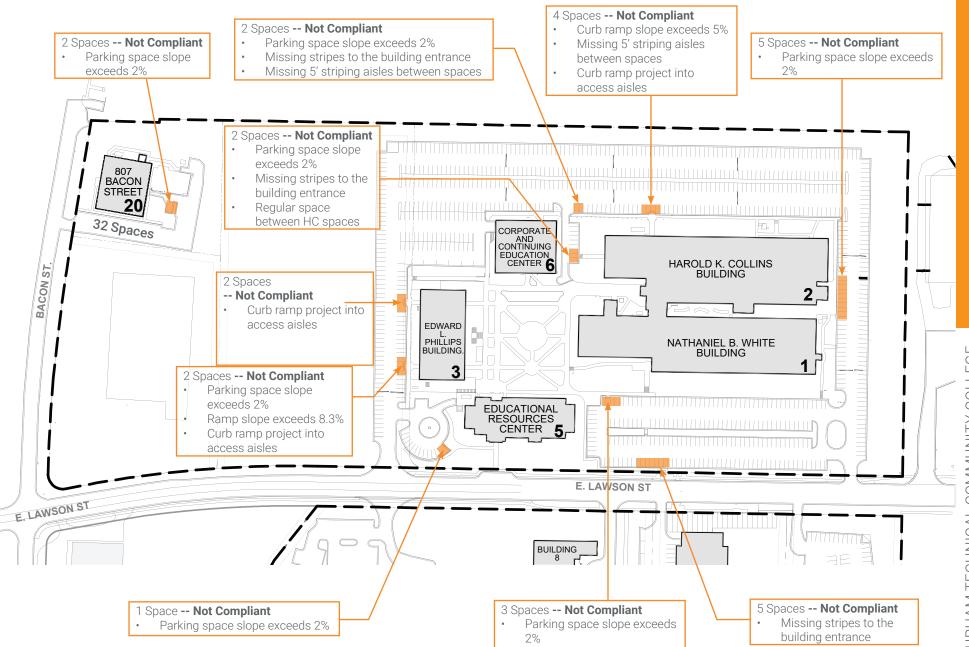
Total Surface Parking: 1,533 Spaces Total Existing Handicap Parking: 56 Spaces

Handicap Parking Requirement: 26 Spaces

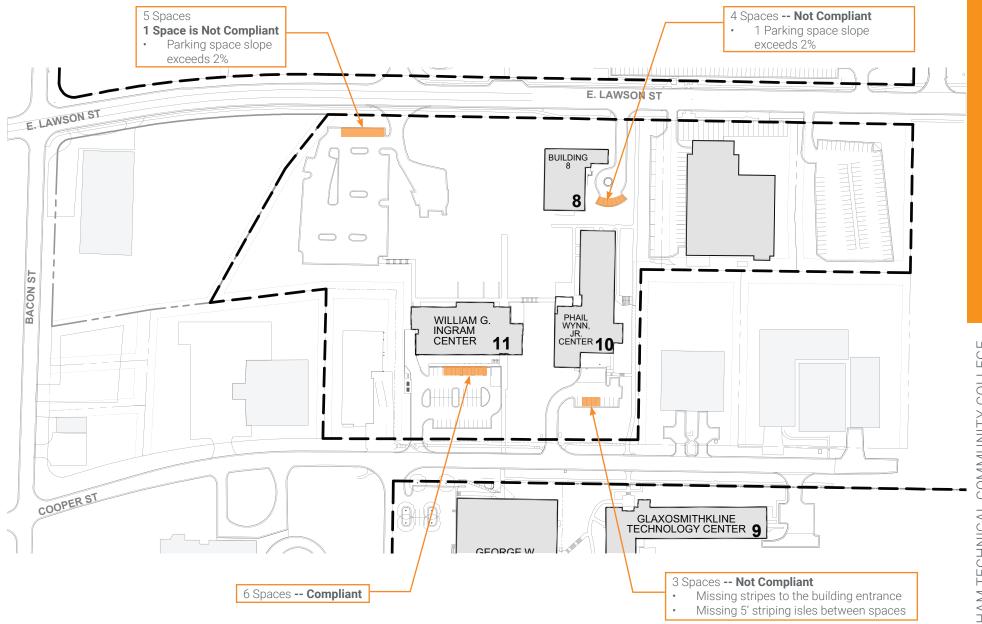
Minimum Number of Accessible Parking Spaces 2010 Standards (208.2)

Total Number of Parking Spaces Provided in Parking Facility (per facility)	(Column A) Minimum Number of Accessible Parking Spaces (car and van)	Mininum Number of Van- Accessible Parking Spaces (1 of six accessible spaces)
1 to 25	1	1
26 to 50	2	1
51 to 75	3	1
76 to 100	4	1
101 to 150	5	1
151 to 200	6	1
201 to 300	7	2
301 to 400	8	2
401 to 500	9	2
500 to 1000	2% of total parking provided in each lot or structure	1/6 of Column A*
1001 and over	20 plus 1 for each 100 over 1000	1/6 of Column A*
one out of every 6 a	accessible spaces	

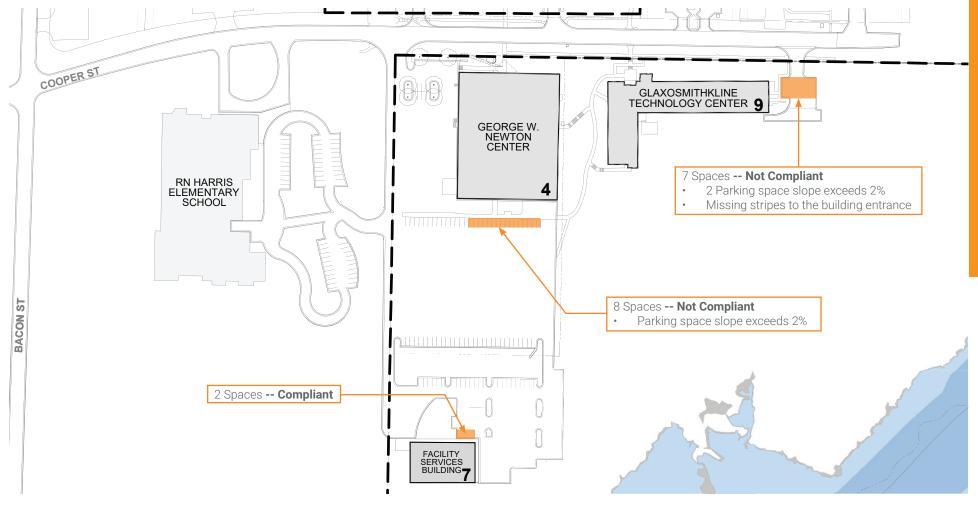
ADA PARKING CONDITIONS | NORTH CAMPUS

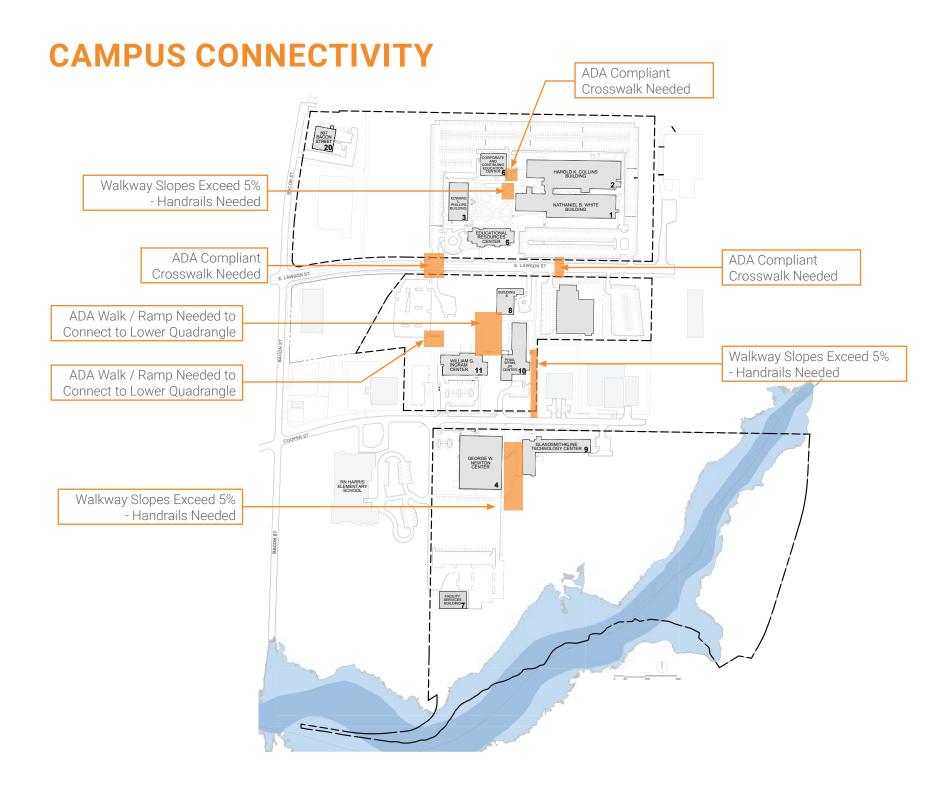


ADA PARKING CONDITIONS | CENTRAL CAMPUS

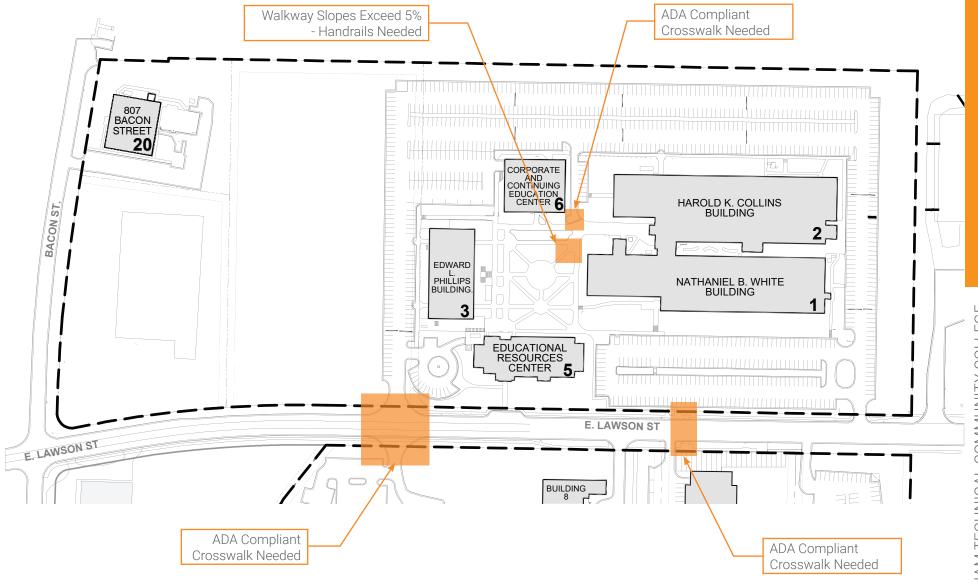


ADA PARKING CONDITIONS | SOUTH CAMPUS

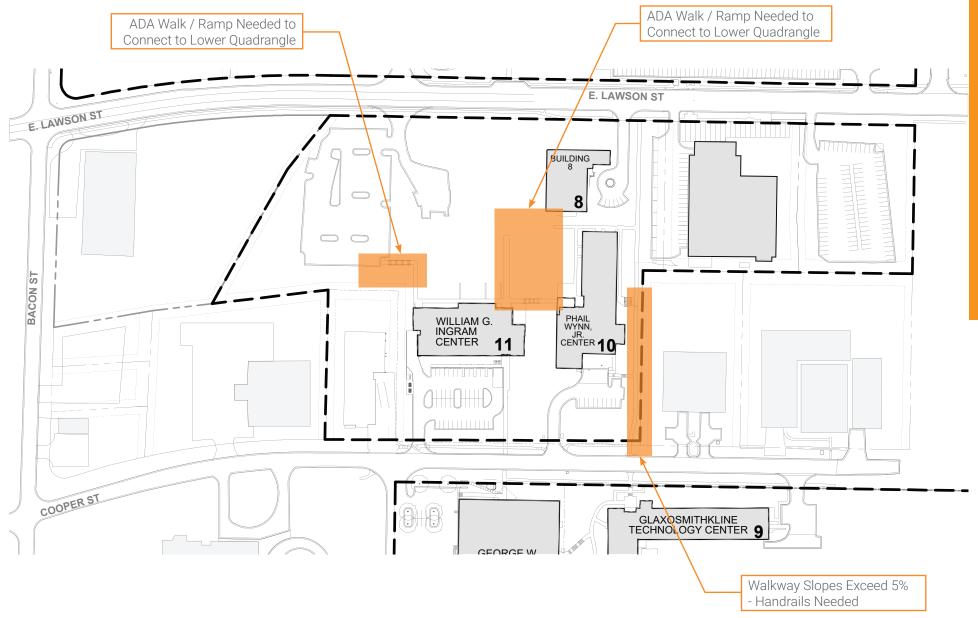




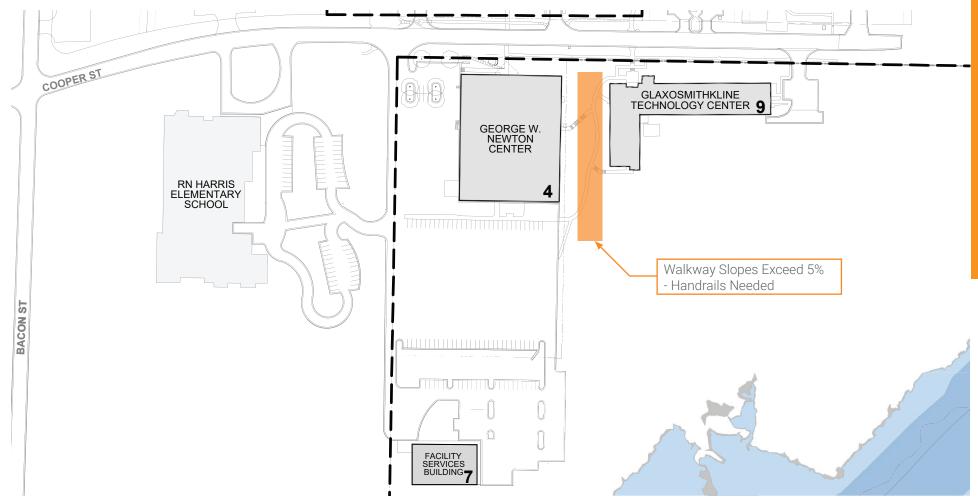
CAMPUS CONNECTIVITY | NORTH CAMPUS



CAMPUS CONNECTIVITY | CENTRAL CAMPUS



CAMPUS CONNECTIVITY | SOUTH CAMPUS



ADA EVALUATION | BUILDINGS

BUILDING 1 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

- Automated External Defibrillator (AEDs) protrudes 9" from face of wall and is mounted with the bottom higher than 27-inches above the floor. Relocate 1 AED.
- Handrails each side of the ramp to Building 2 do not extend 12-inches beyond the bottom of the ramp. Extend 2 handrails.

SIGNAGE:

No issues.

INTERIOR DOORS:

• Door closers at Toilets, Human Resources, and Career Readiness exceed 5 lbs. of pressure to open doors. Adjust or replace 6 door closers.

ASSEMBLY SEATING AND BENCHES:

· Not Applicable.

SERVICE COUNTERS:

• At Cashier transaction windows, the sills are higher than 36-inches above the floor and the bottom of the counter is less than 27-inches above the floor. Lower 3 windowsills and raise 1 counter.

- The operable parts of the paper towel dispensers in toilets exceed the 48-inch mounting height. Lower 4 towel dispensers.
- There are no vertical grab bars in the HC stalls. Provide 4 18-inch grab bars.
- In Women's Toilet T03, the 42-inch side grab bar is not mounted with the end 54-inches from the back wall. Reposition 1 grab bar.
- HC stalls do not have self-closing doors and do not have door pulls. Add 4 self-closing hinges and 8 door pulls.

BUILDING 2 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

- Automated External Defibrillator (AEDs) protrudes 9" from face of wall and is mounted with the bottom higher than 27-inches above the floor. Relocate 1 AED.
- Fire extinguishers protrude more than 4-inches from face of wall and are higher than 27-inches above the floor. Relocate 2 fire extinguishers.

SIGNAGE:

No issues.

INTERIOR DOORS:

- Door closers exceed 5 lbs. of pressure to open doors. Adjust or replace 12 door closers.
- Several doors have doorknobs. Replace 38 doorknobs with lever handles

ASSEMBLY SEATING AND BENCHES:

- In the Auditorium, 4 wheelchair spaces are required and 2 are provided. Remove 2 fixed tables to allow for the additional spaces.
- In the Student Lounge, tables are not provided with a height of 28-34 inches and knee space of 17-25 inches. Provide a table that will accommodate the required height and knee space.

SERVICE COUNTERS:

Not applicable.

- The operable parts of the paper towel dispenser in west end Women's Toilet exceed the 48-inch mounting height. Lower 1 towel dispenser.
- The operable parts of the paper towel dispensers mounted above the countertops in 4 toilets exceed the 44-inch mounting height. Lower 4 towel dispensers.
- There are no vertical grab bars in the HC stalls. Provide 6 18-inch grab bars.
- Toilet tissue dispensers are located with the bottoms lower than 12-inches above the grab bar. Raise 6 tissue dispensers.
- HC stalls do not have self-closing doors and do not have door pulls. Add 6 self-closing hinges and 12 door pulls.

BUILDING 3 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

- Automated External Defibrillators (AEDs) protrude 9" from face of wall and are mounted with the bottoms higher than 27-inches above the floor. Relocate 2 AEDs.
- Fire extinguishers protrude more than 4-inches from face of wall and are higher than 27-inches above the floor. Relocate 7 fire extinguishers.
- The elevator cab is 50-inches deep and is required to be 54-inches deep minimum. Replace 1 elevator cab.
- The elevator cab alarm button is higher that 54-inches. Lower 1 alarm button.
- Toilet room doors have 5-inches clear on the pull side. Relocate 4 doors to achieve 18-inches clear on the latch pull side.

SIGNAGE:

• A few signs are not located on the latch side of the door. Relocate 6 signs.

INTERIOR DOORS:

- Toilet room door closers exceed 5 lbs. of pressure to open doors. Adjust or replace 4 door closers
- Several doors have doorknobs. Replace 49 doorknobs with lever handles.

ASSEMBLY SEATING AND BENCHES:

Not applicable.

SERVICE COUNTERS:

Not applicable.

- The operable parts of the paper towel dispensers in the Women's Toilets exceed the 48-inch mounting height. Lower 2 towel dispensers.
- Seats on the HC water closets are 16-inches above the floor. Raise 4 toilet seats to 17-19-inches above the floor.
- There are no vertical grab bars in the HC stalls. Provide 4 18-inch grab bars.
- Toilet tissue dispensers are located with the bottoms lower than 12 inches above the grab bar. Raise 4 tissue dispensers.
- HC stalls do not have self-closing doors and have twist type locks. Add 4 self-closing hinges and 4 slide type locks.
- HC stall doors are not 32-inches wide. Provide toilet partitions with wider HC stall doors.
- The 42-inch side grab bars are not mounted with the end 54-inches from the back wall. Reposition 4 grab bars.
- The rear grab bars are 24-inches long. Replace 4 grab bars with 36-inch bars.
- The flush valve handles are center mounted. Relocate 4 handles to the open side of the stall.
- Coat hooks in the HC stalls are higher than 48-inches above the floor. Lower 4 coat hooks.

BUILDING 5 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

- Fire extinguishers protrude more than 4-inches from face of wall and are higher than 27-inches above the floor. Relocate 4 fire extinguishers.
- The elevator cab is 51-inches deep and is required to be 54-inches deep minimum. Replace 1 elevator cab.
- The platform lift in the Auditorium does not have a 30-inch-wide approach on the latch side at the upper landing. Reconfigure approach to lift. The lift did not appear to be operational (service panel was open).
- Several doors have less than 12-inches clear on the push side. Relocate 6 doors to achieve 12-inches clear on the latch push side.

SIGNAGE:

No issues.

INTERIOR DOORS:

- Toilet room door closers exceed 5 lbs. of pressure to open doors. Adjust or replace 8 door closers
- Several doors have doorknobs. Replace 14 doorknobs with lever handles.

ASSEMBLY SEATING AND BENCHES:

- In the Auditorium, 6 wheelchair spaces have been provided and the required number of spaces is 5. However, the clear floor area at the spaces does not meet minimum requirements and they overlap the required clearance for the accessible routes. Remove 8 fixed seats to allow for clearances.
- HC seating locations overlap accessible routes. Relocate or increase width of spaces

SERVICE COUNTERS:

No issues.

- The operable parts of the paper towel dispensers in the toilets exceed the 48-inch mounting height. Lower 6 towel dispensers.
- HC stalls do not have self-closing doors. Add 6 self-closing hinges.
- Seats on the water closets in the single toilets are 16-inches above the floor. Raise 2 toilet seats to 17-19-inches above the floor.
- The flush valve handles are center mounted. Relocate 8 handles to the open side of the stall.
- The 42-inch side grab bars are not mounted with the end 54-inches from the back wall. Reposition 8 grab bars.
- Except for lower-level lobby toilets, all toilets have the grab bars mounted higher than 36-inches above the floor. Lower 12 grab bars.
- The 36-inch-long grab bars on the back walls do not extend 12-inches from the water closet centerline to the end of the bar. Relocate 8 grab bars.

BUILDING 6 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

- Fire extinguishers protrude more than 4-inches from face of wall and are higher than 27-inches above the floor. Relocate 5 fire extinguishers.
- At Men's Toilets, the front approach space to doors is 52-inches deep due to location of water coolers. Relocate 2 water coolers to achieve 60-inches clear.

SIGNAGE:

No issues.

INTERIOR DOORS:

- Door closers exceed 5 lbs. of pressure to open doors and take less than 5 seconds to close to latching speed. Adjust or replace 12 door closers.
- Several doors have doorknobs. Replace 19 doorknobs with lever handles.

ASSEMBLY SEATING AND BENCHES:

Not applicable

SERVICE COUNTERS:

• At Reception transaction windows, the sills and countertop exceed 36-inches above the floor. Lower 2 windowsills.

- The operable parts of the paper towel dispenser in the Women's Toilets exceed the 48-inch mounting height. Lower 2 towel dispensers.
- Seats on the HC water closets are 16-inches above the floor. Raise 2 toilet seats to 17-19-inches above the floor.
- There are no vertical grab bars in the HC stalls. Provide 2 18-inch grab bars.
- Toilet tissue dispensers are located with the bottoms lower than 12 inches above the grab bar. Raise 4 tissue dispensers.
- HC stalls do not have self-closing doors and have twist type locks. Add 2 self-closing hinges and 2 slide type locks.
- The 42-inch side grab bars are not mounted with the end 54-inches from the back wall. Reposition 2 grab bars.
- The 36-inch-long grab bars on the back walls do not extend 12-inches from the water closet centerline to the end of the bar. Relocate 2 grab bars.
- The 36-inch-long grab bars on the back walls are lower than 33-36-inches above the floor. Relocate 2 grab bars.
- The flush valve handles are center mounted. Relocate 2 handles to the open side of the stall.
- Coat hooks in the HC stalls are higher than 48-inches above the floor. Lower 2 coat hooks.
- The depth of the HC stalls is less than 56-inches deep. Replace 2 toilet partitions.

BUILDING 8 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

• Front approach to water cooler has 14-inches of clearance below cooler. Modify installation to achieve 17-25-inches below cooler.

SIGNAGE:

No issues.

INTERIOR DOORS:

• Door closers exceed 5 lbs. of pressure to open doors and take less than 5 seconds to close to latching speed. Adjust or replace 6 door closers.

ASSEMBLY SEATING AND BENCHES:

Not applicable

SERVICE COUNTERS:

No issues.

- In each toilet room, the end of the privacy wall is less than 48-inches from the side wall of the toilet room. Increase opening width in 2 locations.
- There are no vertical grab bars in the HC stalls. Provide 2 18-inch grab bars.
- Toilet tissue dispensers are located with the bottoms lower than 12 inches above the grab bar. Raise 2 tissue dispensers.
- HC stalls do not have self-closing doors. Add 2 self-closing hinges.
- The 42-inch side grab bars are not mounted with the end 54-inches from the back wall. Reposition 2 grab bars.
- The 36-inch-long grab bars on the back walls do not extend 12-inches from the water closet centerline to the end of the bar. Relocate 2 grab bars.
- The 36-inch-long grab bars on the back walls are lower than 33-36-inches above the floor. Relocate 2 grab bars.
- The flush valve handles are center mounted. Relocate 2 handles to the open side of the stall.
- The HC stall water closets are 23-inches from the centerline of the fixture to the wall. Relocate 2 fixtures so they are 16-18-inches from the centerline to the wall.
- Bottom of mirrors are more than 35-inches above the floor. Lower 2 mirrors.

BUILDING 9 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

Accessible Routes:

- Automated External Defibrillators (AEDs) protrude 9" from face of wall and are mounted with the bottom higher than 27-inches above the floor. Relocate 2 AEDs.
- In Vestibule 150, the distance between the edge of the interior door in the open position to the wall is 42-inches. Increase size of Vestibule to achieve 48-inches.
- At toilets 181, 182, 282, and 283, the doors have 13-inches clear on the pull side. Relocate 4 doors to achieve 18-inches clear on the latch pull side.

SIGNAGE:

No issues.

INTERIOR DOORS:

• Door closers exceed 5 lbs. of pressure to open doors and take less than 5 seconds to close to latching speed. Adjust or replace 6 door closers.

ASSEMBLY SEATING AND BENCHES:

- In the Teaching Center, 4 wheelchair spaces are required and 3 are provided. Remove 2 fixed seats to allow for the additional space.
- In each Men's and Women's Toilet/Shower/Locker room, a 36-inch L \times 17-inch D wall supported bench is provided. This does not meet the minimum size of 42-inches L \times 20-24-inches D and the approach space is less than 30-inches W \times 48-inches L.

SERVICE COUNTERS:

Not applicable

- The HC stall water closets are 21-inches from the centerline of the fixture to the wall. Relocate 4 fixtures so they are 16-18-inches from the centerline to the wall.
- The HC stall water closets have the flush valve handles mounted on the short side of the fixture. Move 4 handles to the open side of the stall.
- The operable parts of the paper towel dispensers mounted above the countertops in 4 toilets exceed the 44-inch mounting height. Lower 4 towel dispensers.
- There are no vertical grab bars in the HC stalls. Provide 4 18-inch grab bars.
- Toilet tissue dispensers are located with the bottoms lower than 12-inches above the grab bar. Raise 4 tissue dispensers.
- HC stalls do not have self-closing doors and do not have door pulls. Add 4 self-closing hinges and 8 door pulls.
- Coat hooks in HC stalls are higher than 48-inches above the floor. Lower 4 coat hooks.

ADA BUILDING EVALUATION | BUILDING 10

BUILDING 10 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

• Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.

ACCESSIBLE ROUTES:

• Automated External Defibrillators (AEDs) protrude 9" from face of wall and are mounted with the bottoms higher than 27-inches above the floor. Relocate 3 AEDs.

SIGNAGE:

No issues.

INTERIOR DOORS:

• At each toilet, door closers exceed 5 lbs. of pressure to open doors. Adjust or replace 6 door closers.

ASSEMBLY SEATING AND BENCHES:

Not applicable

SERVICE COUNTERS:

• The transaction counter in the Advising Office is higher than 36-inches above the floor. Lower 1 counter and opening.

TOILETS:

- In each of the Men's Toilets, the end of the privacy wall is less than 48-inches from the side wall of the toilet room. Increase opening width in 3 locations.
- There are no vertical grab bars in the HC stalls. Provide 6 18-inch grab bars.
- The tops of all grab bars are higher than 36-inches above the floor. Reposition 12 grab bars.
- The operable parts of the paper towel dispensers mounted above the counter-tops in each toilet room exceed the 44-inch mounting height. Lower 3 towel dispensers.

ADA BUILDING EVALUATION | BUILDING 20

BUILDING 20 - ADA NONCOMPLIANCE ITEMS

ENTRANCES:

- Loose laid floor mats at building entrances slide around. Provide means to prevent the mats from sliding.
- The automatic actuator button for the interior door going out is inoperable.

ACCESSIBLE ROUTES:

No issues

SIGNAGE:

No issues.

INTERIOR DOORS:

• At each toilet, door closers exceed 5 lbs. of pressure to open doors. Adjust or replace 2 door closers.

ASSEMBLY SEATING AND BENCHES:

· Not applicable.

SERVICE COUNTERS:

Not applicable.

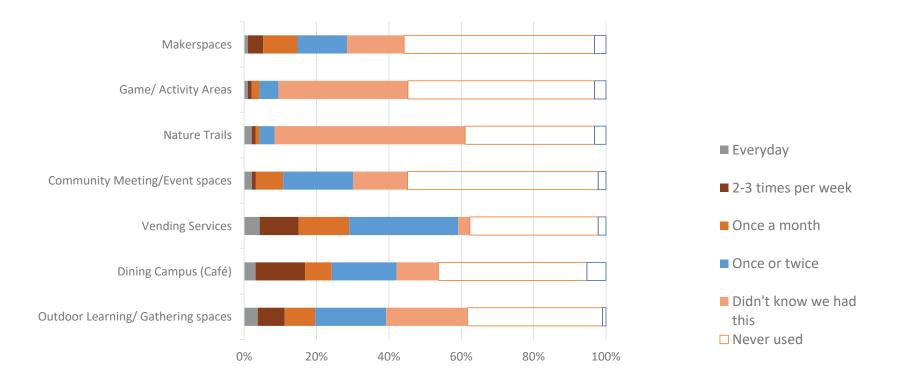
TOILETS:

- In the Men's Toilet, the clear path to the urinals is less than 36-inches wide. Increase opening width in 1 location.
- There are no vertical grab bars in the HC stalls. Provide 2 18-inch grab bars.
- In the Women's Toilet, the tops of the grab bars are higher than 36-inches above the floor. Reposition 2 grab bars.
- HC stalls do not have self-closing doors and do not have door pulls on the interior. Add 2 self-closing hinges and 2 door pulls.
- Coat hooks in the HC stalls are higher than 48-inches above the floor. Lower 2 coat hooks.
- The operable parts of the paper towel dispensers exceed the 48-inch mounting height. Lower 2 towel dispensers.
- The approach space to the towel dispensers is less than 30-inches. Increase approach width in 2 locations.



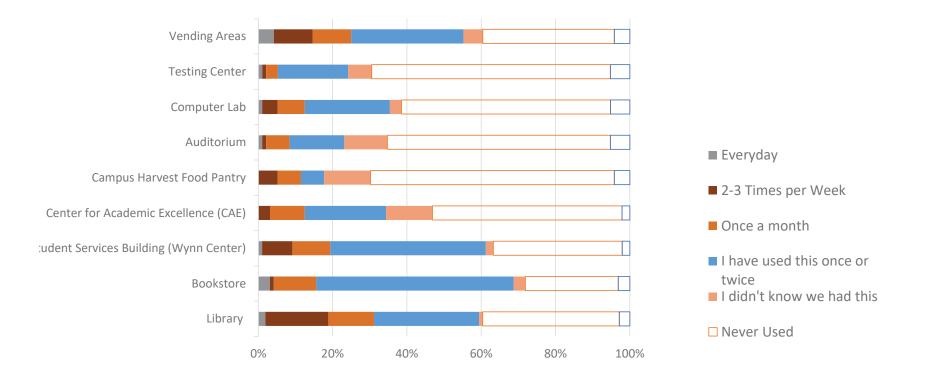
STUDENT SURVEY

HOW OFTEN DO STUDENTS USE THE FOLLOWING AMENITIES?



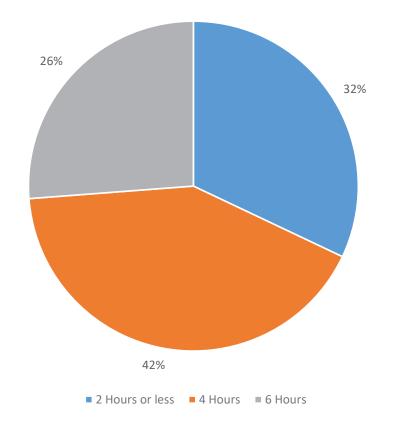


HOW OFTEN DO STUDENTS USE THE FOLLOWING SERVICES?



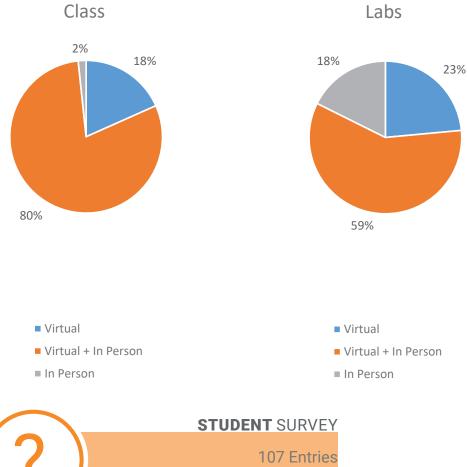


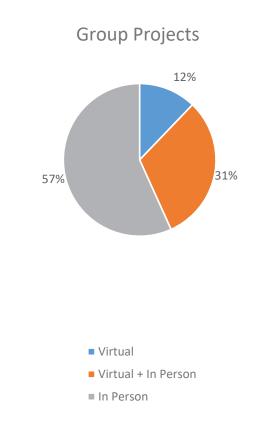
HOW MANY HOURS DO YOU SPEND ON CAMPUS IN A DAY?



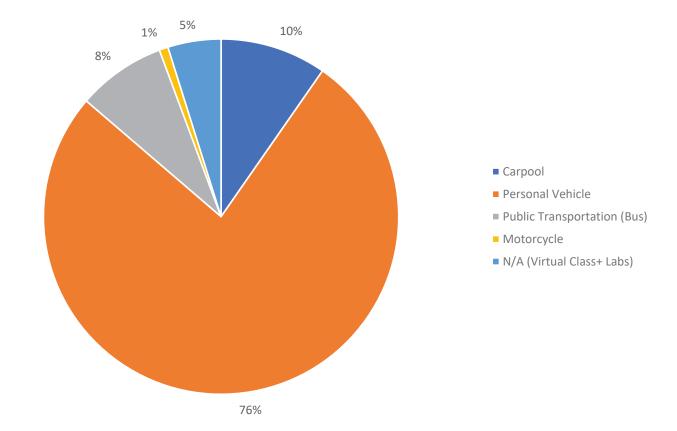


HOW DO YOU PARTICIPATE IN THE FOLLOWING?



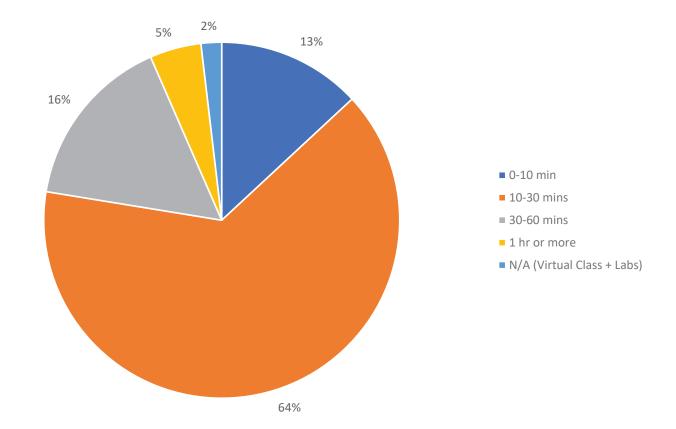


HOW DO THE STUDENTS GET TO CAMPUS?



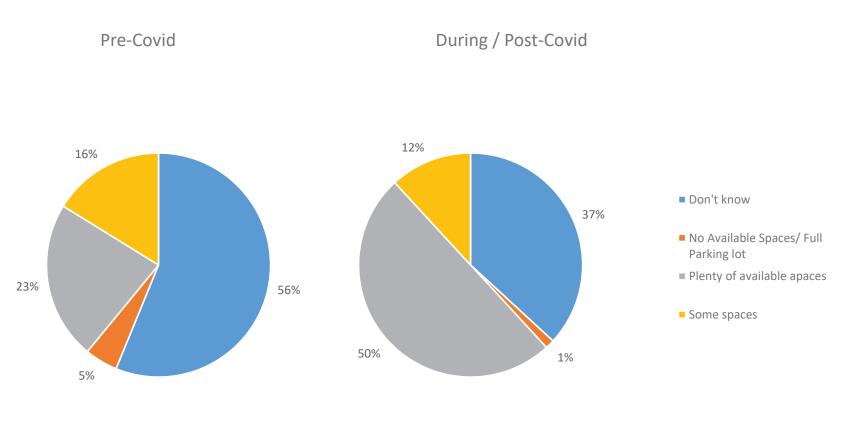


HOW LONG IS YOUR COMMUTE TO CAMPUS?



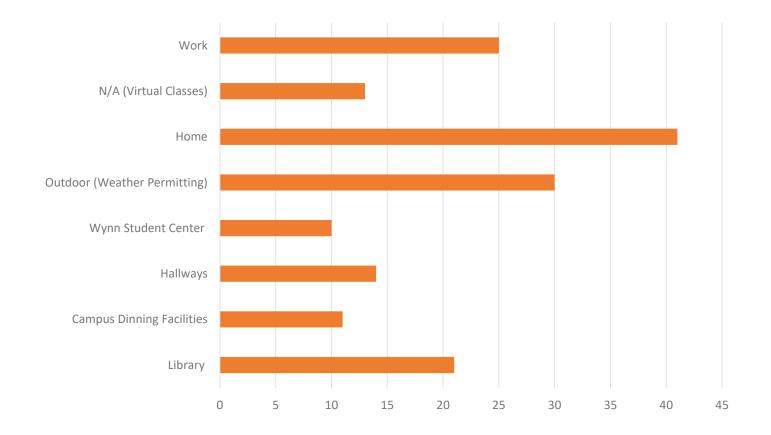


HOW DID THE COVID PANDEMIC IMPACT PARKING OCCUPANCY ON CAMPUS?



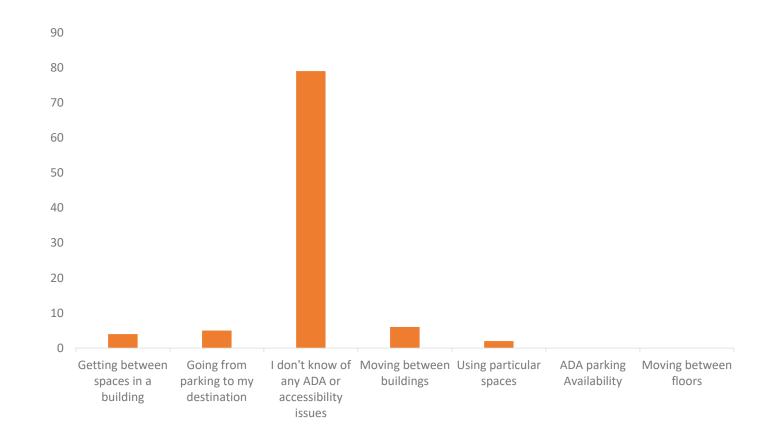


WHERE DO THE STUDENTS SPEND THEIR TIME IN BETWEEN CLASSES?



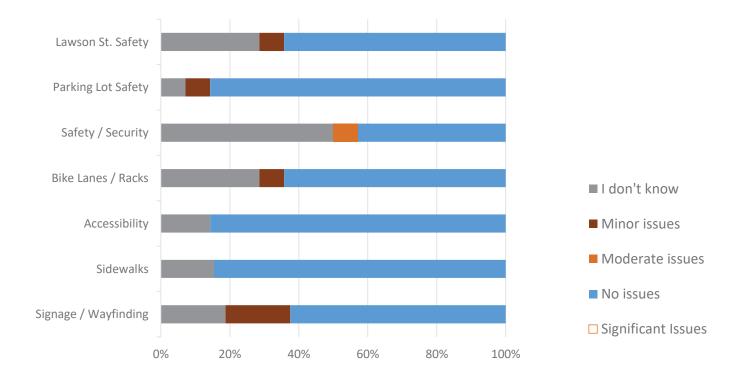


WHAT ARE SOME OF THE COMMON ADA OR ACCESSIBILITY ISSUES?





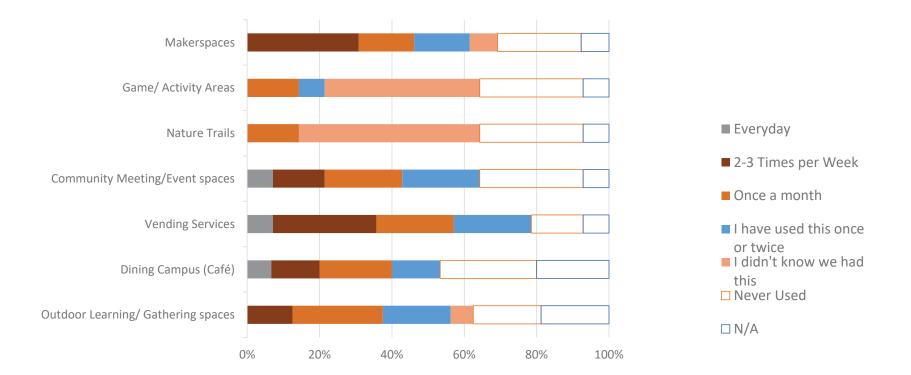
HOW WOULD YOU RATE THE FOLLOWING?





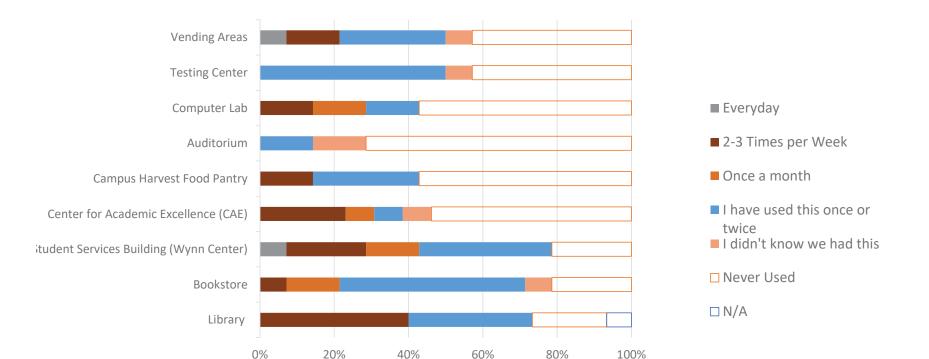


HOW OFTEN DO STAFF USE THE FOLLOWING AMENITIES?



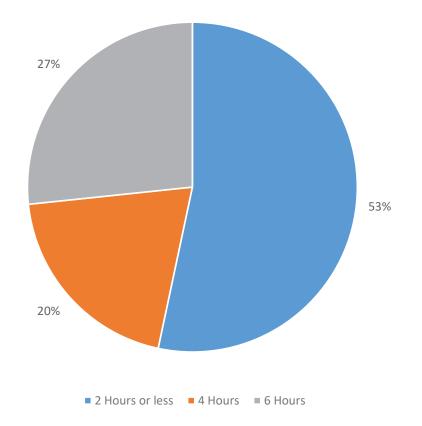


HOW OFTEN DO THE STAFF USE THE FOLLOWING SERVICES?



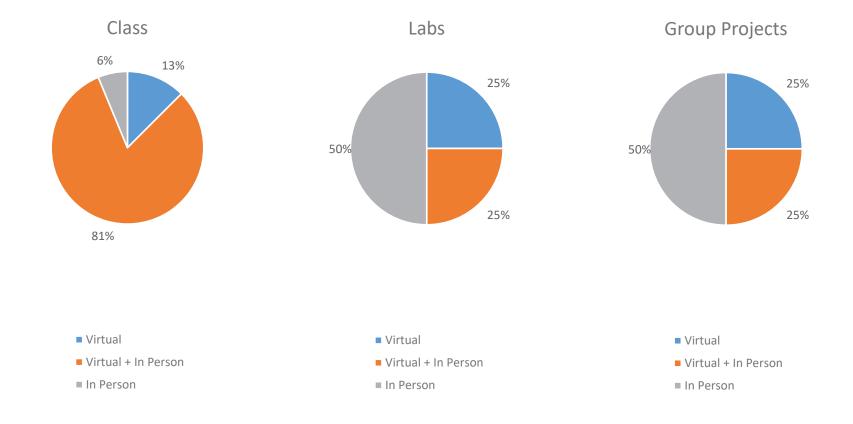


HOW MANY HOURS DO YOU SPEND ON CAMPUS IN A DAY?

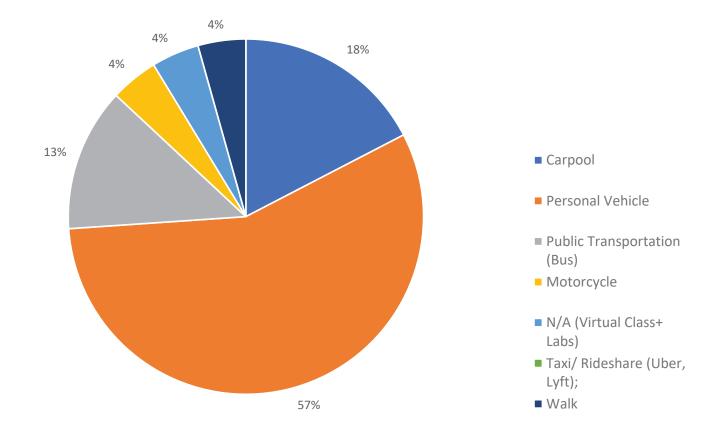




HOW DO YOU PARTICIPATE IN THE FOLLOWING?

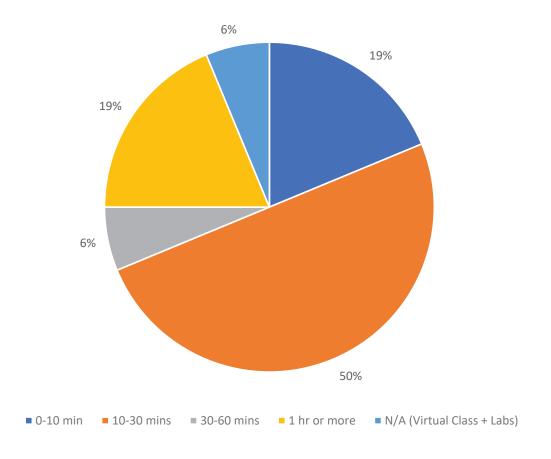


HOW DO THE STAFF GET TO CAMPUS?



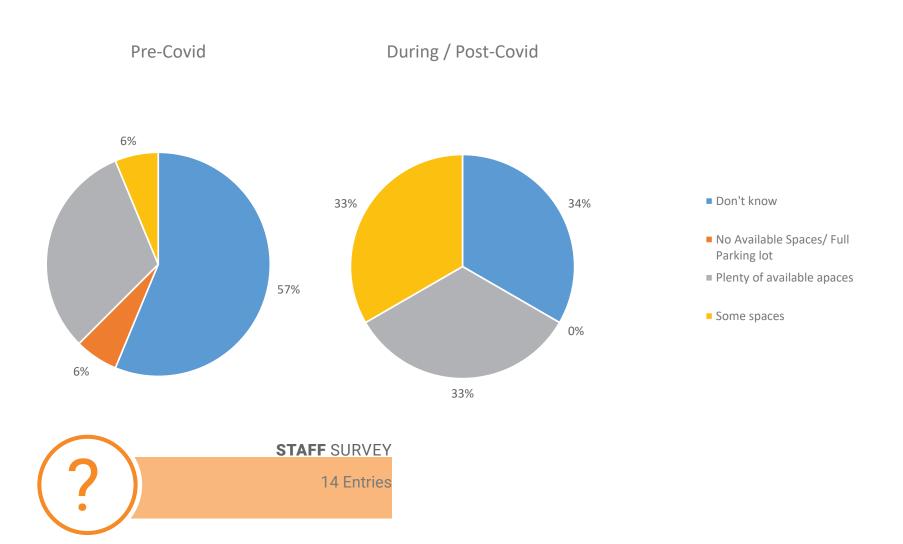


HOW LONG IS YOUR COMMUTE TO CAMPUS?

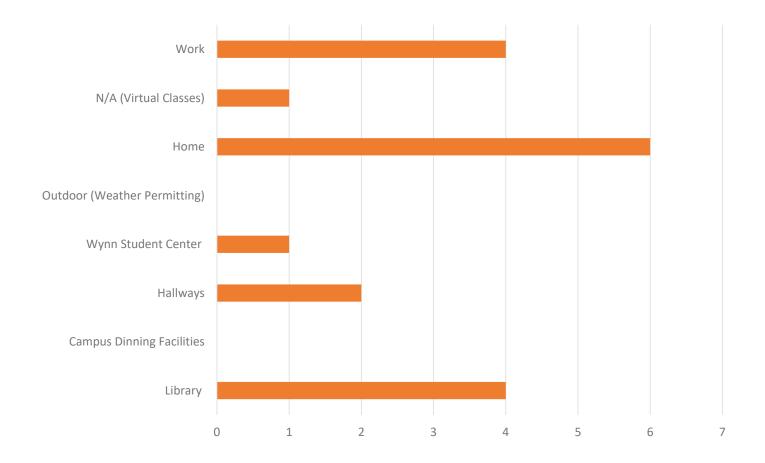




HOW DID THE COVID PANDEMIC IMPACT PARKING OCCUPANCY ON CAMPUS?

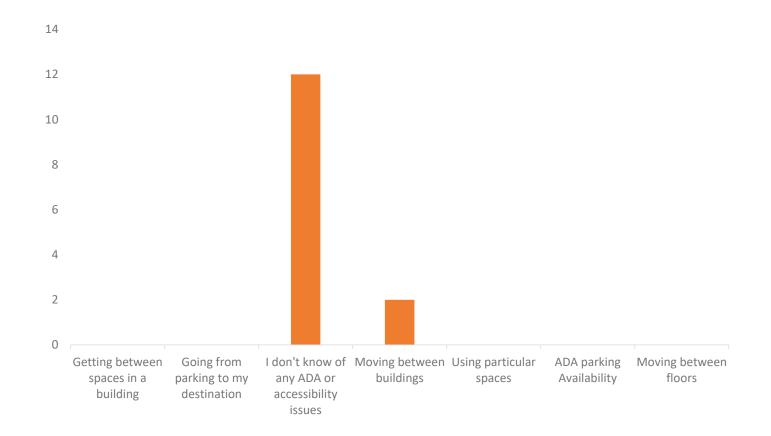


WHERE DO THE STAFF SPEND THEIR TIME IN BETWEEN CLASSES?



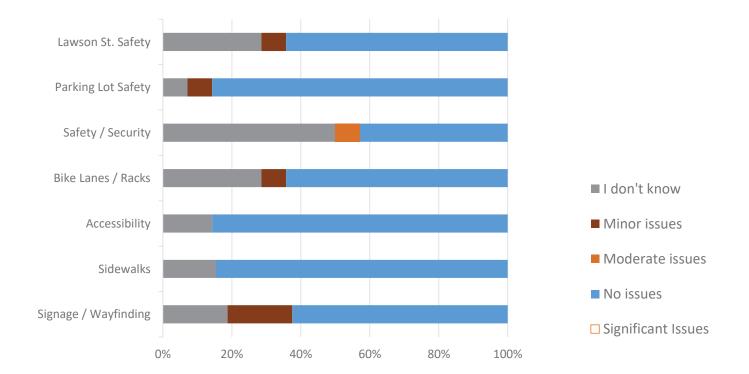


WHAT ARE SOME OF THE COMMON ADA OR ACCESSIBILITY ISSUES?





HOW WOULD YOU RATE THE FOLLOWING?

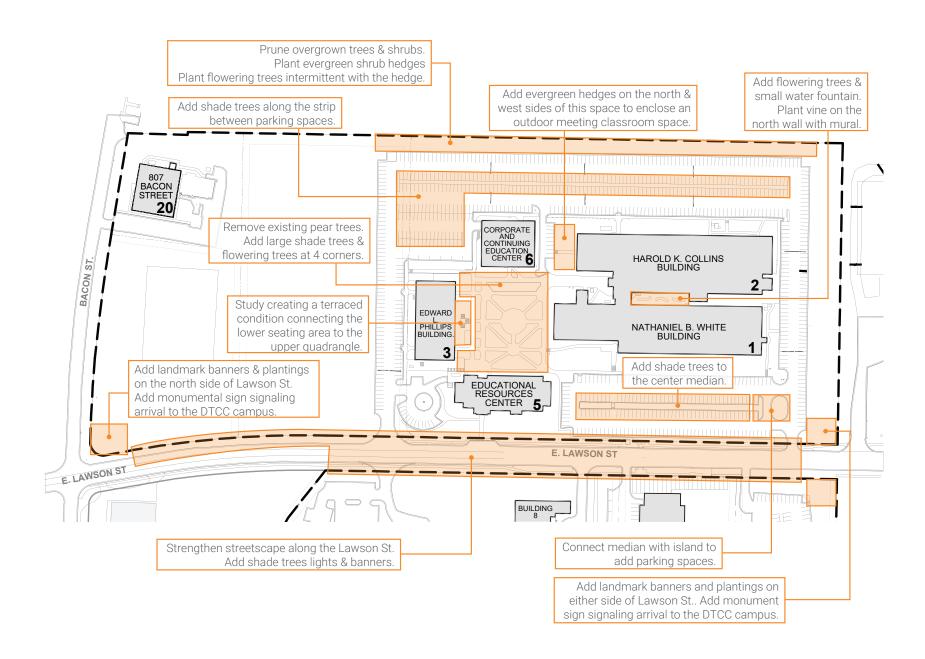




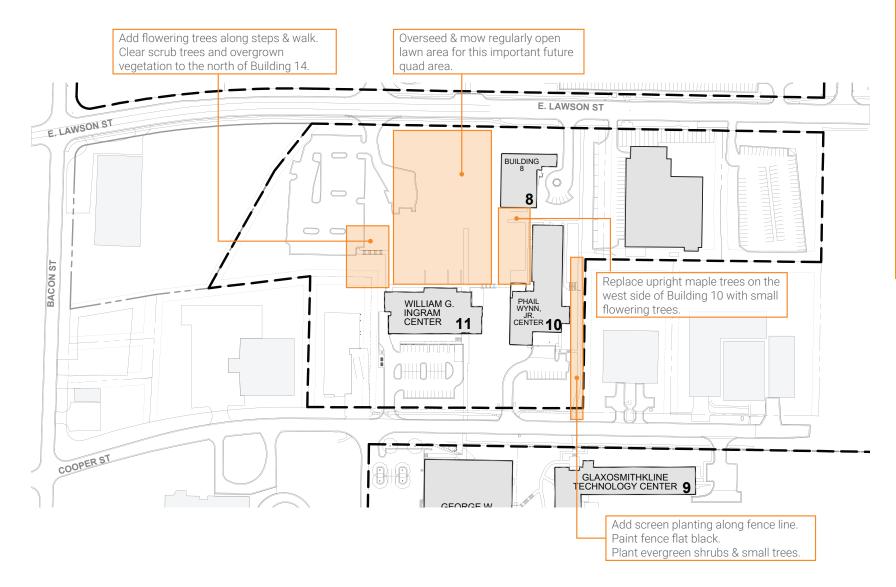


LANDSCAPE IMPROVEMENTS

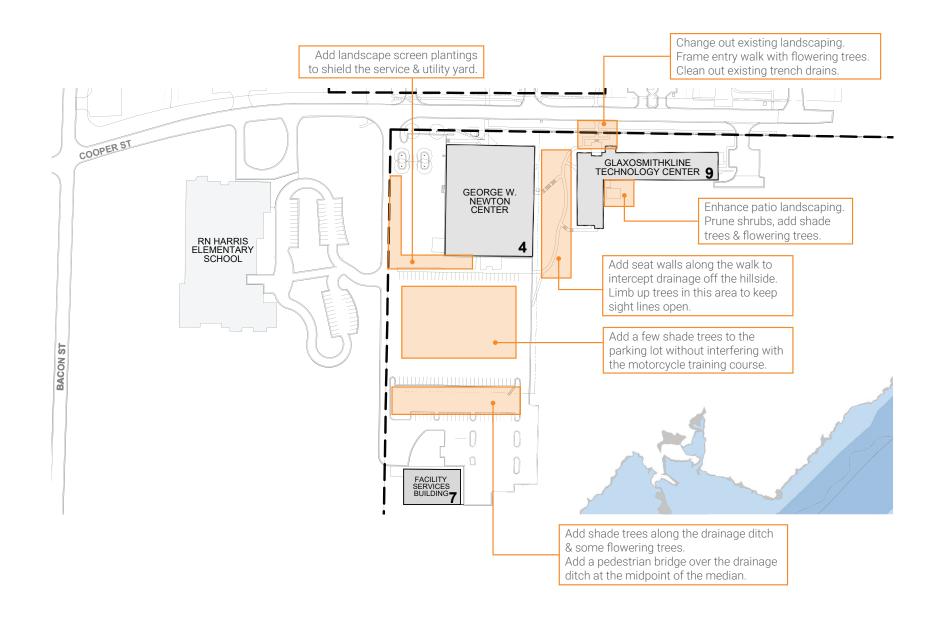
LANDSCAPE DEVELOPMENT OPPORTUNITIES | NORTH CAMPUS



LANDSCAPE DEVELOPMENT OPPORTUNITIES | MID CAMPUS



LANDSCAPE DEVELOPMENT OPPORTUNITIES | SOUTH CAMPUS



QUADRANGLE SHADE TREES

Shade trees are selected for their commercial availability, longevity, and heat and drought tolerance once established. As they age trees should be limbed up to allow people walk beneath them and create a broad overhead canopy.











Highbeam Overcup Oak

High Tower Willow Oak Golden Rain Tree

Chinese Pistache Tree

Liberty Elm

FLOWERING TREES

Flowering trees are selected for their vibrant spring blossoms and reliable performance in central North Carolina. Once established, these trees can be allowed to grow without pruning to alter their natural form and shape.



Eastern Redbud

Kousa Dogwood

Saucer Magnolia

Chinese Fringe Tree

Star Magnolia

EVERGREEN TREES

Evergreen trees are intended to screen areas from public view and frame important views.



Virginia Pine



American Holly & Cultivars



Green Giant Arborvitae



Grandiflora Magnolia

STREET TREES

Street trees are selected for their ability to grow in confined spaces and achieve a medium shade tree stature. These trees will need to comply with the City of Durham's recommended street trees list.



Trident Maple



Red Maple



Red Oak

SCREENING TREES AND SHRUBS

Trees and shrubs used for screening are generally more narrow and upright in form and are selected for their reliable performance in central North Carolina.



Chindo Viburnum



Green Giant Arborvitae



Foster's Holly

PERENNIAL GRASSES

Perennial grasses are selected for their commercial availability and reliable growth and performance. These grasses may be used as stabilizing ground cover where no mowing is needed or required.



Pennisetum - Blonde Ambition



Pennisetum – Little Bunny



Love Grass

GROUND COVERS

Ground covers can be employed around buildings where lawn is not suitable and on slopes where mowing will be challenging. Ground covers are selected for part sun and shade conditions and are drought and heat tolerant.



Vinca Minor / Periwinkle



Vinca Major / Periwinkle



Liriope Muscari / Liriope



Carex pensylvanica / Carex



COST ESTIMATE

4309 Emperor Blvd, Suite 200 Durham, NC 27703

Project: DTCC - Campus Master-Plan

Client: **Durham Technical Community College**

Stage: Rough Order of Magnitude (R3)

Date: **7/26/2022**

APPENDIX D | COST ESTIMATE

DURHAM TECHNICAL COMMUNITY COLLEGE | 2022 CAMPUS PLAN UPDATE MAIN CAMPUS

SKANSKA

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Conceptual Cost Estimate

Contents	Pages
- Executive Summary	3
- Project Cost Summary	4
- Construction Cost Summary	5-6
- Cost Estimate Back-Up (Building 12)	7 - 9
- Cost Estimate Back-Up (Building 13)	10 - 12
- Cost Estimate Back-Up (Building 14)	13 - 14
- Cost Estimate Back-Up (ADA Enhancements)	15 - 20
- Cost Estimate Back-Up (Building 1 & 2 Courtyard)	21 - 22
- Cost Estimate Back-Up (North Quad Enhancements)	23 - 24
- Cost Estimate Back-Up (Campus Landscape Screening)	25 - 26
- Cost Estimate Back-Up (Wayfinding Refresh)	27 - 28
- Cost Estimate Back-Up (Building 9 Renovations)	29 - 31
- Scope Assumptions	33 - 35
- Indirect Cost Overview	36
- Soft Cost Overview	37
- Escalation Overview	38
- Document Log / Terminology	39
- New Building \$ / GSF Overview	40

SKANSKA

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Cost Master-Plan: Executive Cost Summary

Overview

The following report relates to the proposed long-term campus improvements at the Durham Technical Community College (Main Campus) in Durham, NC. The scope of work is based on the master-plan outline prepared by O'Brien Atkins (in May / June 2022) which focuses on the following improvements:

<u>Description</u>	<u>Type</u>	Timeline (Construction Start)
A. Building 12	New construction / 80,000 sf	Q3/2024
B. Building 13	New construction / 35,820 sf	Q3 / 2024
C. Building 14	New construction / 20,000 sf	Q2/2026
D. ADA Barrier Enhancements	Building upgrades	Q2 / 2024
E. Building 1 & 2 Courtyard	Site Upgrades	Q2 / 2025
F. North Quad Enhancements	Site Upgrades	Q2 / 2025
G. Campus Landscape Enhancements	Campus upgrades	Q2/2024
H. Wayfinding Refresh	Campus upgrades	Q2/2024
I. Building 9 Refresh	Renovation / 25,250 sf	Q2/2028

Approach

Conceptual / programmatic cost estimates have been prepared for each of the above sections A thru I. Overall costs are outlined on pages 4 thru 6 and include total construction costs plus adjustments for anticipated escalation and project soft costs. Back-up construction costs are included for each section and are outlined on pages 7 thru 31.

The pricing approach included within this estimate is intended to prepare "stand-alone" project costs for each of the main scope sections. This allows the prioritization / resorting of each of the scope sections as required.

Supporting appendices describing scope assumptions and indirect cost %'s have been included in pages 33 to 40.

DTCC - Campus Master-Plan Durham Technical Community College Durham, NC Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

PROJECT COST SUMMARY										
	Constr. \$			Escalation S	\$:	Soft \$	Project \$	
Description	Total	Start	Duration	MoC	%	Total	%	Total	Total	
A. Building 12 (Health Science)	\$58,605,400	Q3 / 2024	22 mos	Q3 / 2025	23.1%	\$13,520,000	33.0%	\$23,801,000	\$95,926,400	
B. Building 13 (Life Science Ed)	\$28,006,500	Q3/2024	20 mos	Q2/2025	21.6%	\$6,044,000	33.0%	\$11,237,000	\$45,287,500	
C. Building 14 (Applied Technology)	\$12,162,800	Q2 / 2026	18 mos	Q1 / 2027	31.6%	\$3,838,000	33.0%	\$5,280,000	\$21,280,800	
D. ADA Enhancements	\$1,449,900	Q2/2024	3 mos	Q3 / 2024	17.5%	\$254,000	20.3%	\$345,000	\$2,048,900	
E. Building 1 & 2 Courtyard Enhancements	\$1,260,700	Q2 / 2025	3 mos	Q3 / 2025	23.6%	\$297,000	22.3%	\$347,000	\$1,904,700	
F. North Quad Enhancements	\$1,696,400	Q2 / 2025	6 mos	Q3 / 2025	23.6%	\$400,000	22.3%	\$466,000	\$2,562,400	
G. Campus Landscape Enhancements	\$366,800	Q2 / 2024	6 mos	Q3 / 2024	17.5%	\$64,000	22.3%	\$96,000	\$526,800	
H. Wayfinding Refresh	\$315,300	Q2/2024	3 mos	Q3 / 2024	17.5%	\$55,000	13.0%	\$48,000	\$418,300	
I. Building 9 Refresh	\$7,720,100	Q2 / 2028	12 mos	Q4/2028	38.6%	\$2,982,000	35.0%	\$3,746,000	\$14,448,100	
Total Project Cost	\$111,583,900	•				\$27,454,000	•	\$45,366,000	\$184,403,900	

DTCC Master-Plan Project Cost Summary Page 4 of 40

DTCC - Campus Master-Plan
Durham Technical Community College
Durham, NC
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200

Durham, NC 27703 7/26/2022

CONSTRUCTION C	OST SUMMARY		
Description	sf	\$ / sf	Total \$
A. Building 12 (Health Science)			
A1 Make Ready / Prep Work	323,000 SF	\$5.39	\$1,739,800
A2 New Construction	80,000 SF	\$549.51	\$43,960,600
A3 Utility Infrastructure	323,000 SF	\$4.32	\$1,394,100
A4 Sitework (Base)	241,000 SF	\$18.04	\$4,348,100
A5 Sitework (Lot 150)	82,000 SF	\$14.43	\$1,183,600
A6 Streetscape Improvements	36,450 SF	\$29.19	\$1,063,800
A7 Bridge Connector	4,000 SF	\$889.68	\$3,558,700
A8 Building 5 Renovations	5,800 SF	\$233.91	\$1,356,700
Total - A. Building 12 (Health Science)			\$58,605,400
B. Building 13 (Life Science Ed)			
B1 Make Ready / Prep Work	n/a	n/a	\$2,086,200
B2 New Construction	35,820 SF	\$573.73	\$20,551,100
B3 Utility Infrastructure	206,410 SF	\$4.96	\$1,023,800
B4 Sitework	206,410 SF	\$15.31	\$3,160,700
B5 Streetscape Improvements	39,428 SF	\$30.05	\$1,184,700
Total - B. Building 13 (Life Science Ed)			\$28,006,500
C. Building 14 (Applied Technology)		1	
C1 Make Ready / Prep Work	42,000 SF	\$22.20	\$932,600
C2 New Construction	20,000 SF	\$515.02	\$10,300,300
C3 Utility Infrastructure	42,000 SF	\$6.32	\$265,500
C4 Sitework	42,000 SF	\$15.82	\$664,400
Total - C. Building 14 (Applied Technology)			\$12,162,800
D. ADA Enhancements		I	
D1 Building Enhancements	-	-	\$1,449,900
D2 Campus Pathways	-	-	In A, B, C, and F
Total - D. ADA Enhancements			\$1,449,900
E. Building 1 & 2 Courtyard Enhancements			
E1. Courtyard Enhancements	-	-	\$1,260,700
Total - E. Building 1 & 2 Courtyard Enhancements			\$1,260,700
F. North Quad Enhancements		<u> </u>	
F1 North Quad Enhancements	-	-	\$1,696,400
Total - F. North Quad Enhancements			\$1,696,400
G. Campus Landscape Enhancements			
G1. Campus Landscape Enhancements	-	-	\$366,800
Total - G. Campus Landscape Enhancements			\$366,800

DTCC - Campus Master-Plan
Durham Technical Community College
Durham, NC
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

CONSTRUCTION COST SUMMARY								
Description	sf	\$ / sf	Total \$					
H. Wayfinding Refresh								
H1 Campus Signage Upgrades	-	-	\$315,300					
Total - H. Wayfinding Refresh			\$315,300					
I. Building 9 Refresh								
l1 Building 9 Interior Upgrade	25,250 SF	\$238.23	\$6,015,300					
I2 Add Student Study Program	2,500 SF	\$275.32	\$688,300					
13 Add Coffee Shop Program	800 SF	\$387.13	\$309,700					
14 Courtyard & Screening Upgrades	6,500 SF	\$37.29	\$242,400					
I5 Roofing Replacement	24,782 SF	\$18.74	\$464,400					
Total - I. Building 9 Refresh			\$7,720,100					

DTCC - Campus Master-Plan Durham Technical Community College Durham, NC Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

A. Building 12 (New Health Science)

Construction Cost Back-Up

DTCC Master-Plan Page 7 of 40

PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

A. Building 12 (New Health Science)

Description	Quant	ity	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
A1 Make Ready / Prep Work						
Preparation						
Mobilization / set up	1	ls	\$25,000.00	\$32,087.98		\$32,100
Surface demolition over gross site	323,000	sf	\$1.00	\$1.28		\$414,600
Clear and grub site	323,000	sf	\$0.45	\$0.58		\$186,600
Earthwork, cut and fill (balanced)	23,926	су	\$10.00	\$12.84	,	\$307,100
Cut, net export	5,981	су	\$30.00	\$38.51	•	\$230,300
Finish grading	293,000	sf	\$0.60	\$0.77		\$225,600
Erosion control measures	323,000	sf	\$0.55	\$0.71	/sf	\$228,000
Temporary work / protection	18	mos	\$5,000.00	\$6,417.60	/mos	\$115,500
TOTAL: A1 M	ake Ready / Prep Work		323,000	\$5.39	\$/sf	\$1,739,800
A2 New Construction						
Building 12						
New health science building	80,000	sf	\$375.00	\$481.32	/sf	\$38,505,600
Premium for marquee building element	80,000	sf	\$45.00	\$57.76	/sf	\$4,620,700
Premium for food service equipment	1	ls	\$600,000.00	\$770,111.49	/ls	\$770,100
Premium for utility hook ups	1	ls	\$50,000.00	\$64,175.96	/ls	\$64,200
TOTAL	.: A2 New Construction		80,000	\$549.51	\$/sf	\$43,960,600
3 Utility Infrastructure			•	•	•	
Site Utilities						
Domestic / fire water infrastructure	7.4	acre	\$30,000.00	\$38,505.57	/acre	\$285,500
Sanitary sewer infrastructure	7.4	acre	\$30,000.00	\$38,505.57	/acre	\$285,500
Site gas infrastructure	7.4	acre	\$14,000.00	\$17,969.27		\$133,200
Primary / secondary power infrastructure	7.4	acre	\$20,000.00	\$25,670.38		\$190,300
Low voltage infrastructure	7.4	acre	\$15,000.00	\$19,252.79		\$142,800
Storm drainage infrastructure	7.4	acre	\$24,000.00	\$30,804.46		\$228,400
Connections, re-routes, shutdowns, etc.	1	ls	\$100,000.00	\$128,351.92		\$128,400
TOTAL: /	A3 Utility Infrastructure		323,000	\$4.32	\$/sf	\$1,394,100
A4 Sitework (Base)	· · · · · · · · · · · · · · · · · · ·		,	•		, ,
Site Improvements (Excluding new Lot 150)						
New surface lot and connecting roadways	55,000	sf	\$9.00	\$11.55	/sf	\$635,300
Pedestrian circulation	20,000	sf	\$20.00	\$25.67	/sf	\$513,400
Premium for enhanced paving / plaza	10,000	sf	\$25.00	\$32.09	/sf	\$320,900
Outdoor learning areas	25,000	sf	\$30.00	\$38.51		\$962,600
Loading dock, MEP yard	5,000	sf	\$24.00	\$30.80		\$154,000
Landscaping, enhanced	20,000	sf	\$10.00	\$12.84		\$256,700
Landscaping, outlying areas	86,000	sf	\$2.50	\$3.21		\$276,000
Site terracing	1,200	If	\$275.00	\$352.97		\$423,600
Site retaining	300	If	\$485.00	\$622.51		\$186,800
Site stairs, ramps, railings at Quad area	1	ls	\$125,000.00	\$160,439.89		\$160,400
Signage, specialties	1	ls	\$123,000.00	\$128,351.92		\$128,400
Tie-ins with existing surfaces	1	ls	\$25,000.00	\$32,087.98		\$32,100
Site lighting	211,000	sf	\$25,000.00	\$0.64		\$135,400
Additional surface drainage	211,000	si sf	\$0.50 \$0.60	\$0.64 \$0.77		\$162,500
Additional surface drainage	211,000	51	Φ0.00	φ0.//	/51	Φ102,500
тот	AL: A4 Sitework (Base)		241,000	\$18.04	\$/sf	\$4,348,100

PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

A. Building 12 (New Health Science)

Description	Quanti	ity	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
A5 Sitework (Lot 150)				(WI/OP)		
New Surface Lot						
Demo, grading, utilities					/	incl in A1 / A3
Final grading	82,000	sf	\$0.60	\$0.77	/sf	\$63,100
AC paving	61,500	sf	\$9.00	\$11.55		\$710,400
Curbs / curb and gutter	1,200	lf	\$24.00	\$30.80		\$37,000
Tie-in with existing roadway	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400
Striping / signage	1	ls	\$15,000.00	\$19,252.79		\$19,300
Pedestrian walkways	3,000	sf	\$15.00	\$19.25	/sf	\$57,800
Curb cut ramps	2	ea	\$3,000.00	\$3,850.56	/ea	\$7,700
Landscaping islands	3,500	sf	\$7.50	\$9.63	/sf	\$33,700
Landscaping, outlying areas	14,000	sf	\$2.50	\$3.21	/sf	\$44,900
Site retaining	150	lf	\$400.00	\$513.41	/lf	\$77,000
Site lighting	82,000	sf	\$0.70	\$0.90	/sf	\$73,700
Additional surface drainage	82,000	sf	\$0.50	\$0.64	/sf	\$52,600
TOTAL: A5 Siteworl	k (Lot 150)		82,000	\$14.43	\$/sf	\$1,183,600
A6 Streetscape Improvements			,	•	•	, _,,
Offsite Improvements						
Resurface of Lawson Street, new top coat	19,200	sf	\$7.50	\$9.63	/sf	\$184,800
Modify drainage structure heights	19,200	sf	\$2.00	\$2.57		\$49,300
Striping / signage	19,200	sf	\$1.50	\$1.93	/sf	\$37,000
Create new central median, including demo, planting, curbs	7,500	sf	\$20.00	\$25.67	/sf	\$192,500
Expand Lawson Street for additional street parking	3,000	sf	\$45.00	\$57.76	/sf	\$173,300
Sidewalk modifications	6,750	sf	\$18.00	\$23.10	/sf	\$155,900
New crosswalks	560	sf	\$75.00	\$96.26	/sf	\$53,900
Tie in with existing paving	1	ls	\$25,000.00	\$32,087.98	/ls	\$32,100
Traffic management	3	mos	\$12,000.00	\$15,402.23	/mos	\$46,200
Phasing / sequencing premium	15.0%				/	\$138,800
TOTAL: A6 Streetscape Imp	rovements		36,450	\$29.19	\$/sf	\$1,063,800
A7 Bridge Connector						
Pedestrian Bridge			A =	A=0		
Demolition	1	ls	\$25,000.00	\$32,087.98		\$32,100
Bridge foundations	3	loc	\$15,000.00	\$19,252.79		\$57,800
Tower element foundations	1	loc	\$5,000.00	\$6,417.60		\$6,400
Bridge - unenclosed, complete	2,500	sf	\$500.00	\$641.76		\$1,604,400
Tower / branding element, allowance	1	ls	\$750,000.00	\$962,639.37		\$962,600
Premium for structural oversizing (for future enclosure)	2,500	sf	\$75.00	\$96.26		\$240,700
Modifications at Building 5 / plaza / tie-in	1,500	sf	\$150.00	\$192.53		\$288,800
Site improvements around bridge base, allowance	3	loc	\$3,000.00	\$3,850.56		\$11,600
Traffic management	2	mos	\$12,000.00	\$15,402.23	/mos	\$30,800
Phasing / sequencing premium	10.0%				/	\$323,500
TOTAL: A7 Bridge	Connector		4,000	\$889.68	\$/sf	\$3,558,700
A8 Building 5 Renovations						
Existing Building 5	,	,	4.00 2.22 2.	4400 == : 5 =	,,	A:00 10-
Form new building entry	1	ls	\$100,000.00	\$128,351.92		\$128,400
Interior renovations at upper floor for circulation (light)	5,800	sf	\$165.00	\$211.78	/st	\$1,228,300
TOTAL: A8 Building 5 Re	enovations		5,800	\$233.91	\$/sf	\$1,356,700

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B. Building 13 (Life Science Training Center)
Construction Cost Back-Up

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PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

B. Building 13 (Life Science Training Center)

Description	Quant	ity	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
B1 Make Ready / Prep Work						
Building Demolition						
Existing building demolition	37,000	sf	\$15.00	\$19.25	/sf	\$712,400
Premium for hazmat	37,000	sf	\$6.50	\$8.34	/sf	\$308,700
Temporary utility caps	1	ls	\$30,000.00	\$38,505.57	/ls	\$38,500
Protection and off haul	1	ls	\$75,000.00	\$96,263.94		\$96,300
Site Grading / Prep	-		ψ, σ,σσσ.σσ	Ψ, σ,2σσ., .	,	ψ, ο,οοο
Site preparation / grading	206,410	sf	\$2.50	\$3.21	/ef	\$662,300
Erosion control	206,410	sf	\$0.75	\$0.96		\$198,700
			·			
Site temporary works	18	mos	\$3,000.00	\$3,850.56	/mos	\$69,300
	Ready / Prep Work		n/a	n/a	-	\$2,086,200
B2 New Construction						
Building 13		_	4 4 -			
Allowance per 01/28/22 ROM (w/ market adjustment)	35,820	sf	\$447.00	\$573.73	/sf	\$20,551,100
TOTAL: B2	New Construction		35,820	\$573.73	\$/sf	\$20,551,100
B3 Utility Infrastructure						
Site Utilities						
Domestic / fire water infrastructure	4.7	acre	\$35,000.00	\$44,923.17	/acre	\$212,900
Sanitary sewer infrastructure	4.7	acre	\$35,000.00	\$44,923.17	/acre	\$212,900
Site gas infrastructure	4.7	acre	\$18,000.00	\$23,103.34		\$109,500
Primary / secondary power infrastructure	4.7	acre	\$22,000.00	\$28,237.42		\$133,800
Low voltage infrastructure	4.7	acre	\$17,500.00	\$22,461.59		\$106,400
Storm drainage infrastructure	4.7		\$25,000.00	\$32,087.98		\$152,000
		acre				
Connections, re-routes, shutdowns, etc.	1	ls	\$75,000.00	\$96,263.94	715	\$96,300
	tility Infrastructure		206,410	\$4.96	\$/sf	\$1,023,800
B4 Sitework						
Site Improvements						
New surface lot and connecting roadways	91,481	sf	\$9.00	\$11.55		\$1,056,800
Pedestrian circulation	15,000	sf	\$20.00	\$25.67	/sf	\$385,100
Premium for enhanced paving / plaza	5,000	sf	\$25.00	\$32.09	/sf	\$160,400
Outdoor learning areas	10,000	sf	\$30.00	\$38.51	/sf	\$385,100
Loading dock, MEP yard	3,500	sf	\$24.00	\$30.80	/sf	\$107,800
Landscaping, enhanced	15,000	sf	\$10.00	\$12.84	/sf	\$192,500
Landscaping, islands	5,000	sf	\$7.50	\$9.63		\$48,100
Landscaping, outlying areas	26,429	sf	\$2.50	\$3.21		\$84,800
Site terracing	250	If	\$275.00	\$352.97		\$88,200
Site retaining	150	If	\$485.00	\$622.51		\$93,400
<u> </u>			•	\$160.439.89		
Site stairs, ramps, railings at Quad area	1	ls	\$125,000.00	/		\$160,400
Add compliant railings to existing ramp at Bldg 9	160	lf .e	\$240.00	\$308.04		\$49,300
Add compliant railings to existing ramp at Bldg 10	180	lf '	\$240.00	\$308.04		\$55,400
Signage, specialties	1	ls	\$25,000.00	\$32,087.98		\$32,100
Tie-ins with existing surfaces	1	ls	\$15,000.00	\$19,252.79		\$19,300
Site lighting	171,410	sf	\$0.50	\$0.64		\$110,000
Additional surface drainage	171,410	sf	\$0.60	\$0.77	/sf	\$132,000
т	OTAL: B4 Sitework		206,410	\$15.31	\$/sf	\$3,160,700

PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

B. Building 13 (Life Science Training Center)

Description	Quant	ty	Unit Price (Raw)	Unit Price (M/Up)	Grand Total
B5 Streetscape Improvements					
Offsite Improvements					
Resurface of Lawson Street, new top coat	19,428	sf	\$7.50	\$9.63 /sf	\$187,000
Modify drainage structure heights	19,428	sf	\$2.00	\$2.57 /sf	\$49,900
Striping / signage	19,428	sf	\$1.50	\$1.93 /sf	\$37,400
Create new central median, including demo, planting, curbs	9,000	sf	\$20.00	\$25.67 /sf	\$231,000
Expand Lawson Street for additional street parking	4,000	sf	\$45.00	\$57.76 /sf	\$231,000
Sidewalk modifications	7,000	sf	\$18.00	\$23.10 /sf	\$161,700
New crosswalks	560	sf	\$75.00	\$96.26 /sf	\$53,900
Tie in with existing paving	1	ls	\$25,000.00	\$32,087.98 /ls	\$32,100
Traffic management	3	mos	\$12,000.00	\$15,402.23 /mo	s \$46,200
Phasing / sequencing premium	15.0%			/	\$154,500
TOTAL: B5 Streetscape Imp	provements		39,428	\$30.05 \$/st	\$1,184,700

DTCC - Campus Master-Plan Durham Technical Community College Durham, NC Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

C. Building 14 (Applied Technology)

Construction Cost Back-Up

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C. Building 14 (Applied Technology)

Description	Quant	ity	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
C1 Make Ready / Prep Work						
Building Demolition						
Existing building demolition	20,000	sf	\$16.00	\$20.54	/sf	\$410,700
Premium for hazmat	20,000	sf	\$6.50	\$8.34	/sf	\$166,900
Temporary utility caps	1	ls	\$10,000.00	\$12,835.19	/ls	\$12,800
Protection and off haul	1	ls	\$25,000.00	\$32,087.98	/ls	\$32,100
Preparation						
Mobilization / set up	1	ls	\$15,000.00	\$19,252.79		\$19,300
Surface demolition over gross site	42,000	sf	\$1.00	\$1.28		\$53,900
Clear and grub site	42,000	sf	\$0.45	\$0.58		\$24,300
Earthwork, cut and fill (balanced)	3,111	су	\$10.00	\$12.84	,	\$39,900
Cut, net export	778	су	\$30.00	\$38.51		\$29,900
Finish grading	22,000	sf	\$0.60	\$0.77		\$16,900
Erosion control measures	42,000	sf	\$0.55	\$0.71		\$29,600
Temporary work / protection	15	mos	\$5,000.00	\$6,417.60	/mos	\$96,300
TOTAL: C1 Make Ready	y / Prep Work		42,000	\$22.20	\$/sf	\$932,600
C2 New Construction						
Building 14						
New applied technology building	20,000	sf	\$360.00	\$462.07		\$9,241,300
Premium for high bay components	20,000	sf	\$25.00	\$32.09		\$641,800
Premium for single story inefficiencies	20,000	sf	\$15.00	\$19.25		\$385,100
Premium for utility hook ups	1	ls	\$25,000.00	\$32,087.98	/ls	\$32,100
TOTAL: C2 New	Construction		20,000	\$515.02	\$/sf	\$10,300,300
C3 Utility Infrastructure					•	, ==,,==,,===
Site Utilities						
Domestic / fire water infrastructure	1.0	acre	\$37,500.00	\$48,131.97	/acre	\$46,400
Sanitary sewer infrastructure	1.0	acre	\$37,500.00	\$48,131.97		\$46,400
Site gas infrastructure	1.0	acre	\$17,500.00	\$22,461.59		\$21,700
Primary / secondary power infrastructure	1.0	acre	\$25,000.00	\$32,087.98		\$30,900
Low voltage infrastructure	1.0	acre	\$18,750.00	\$24,065.98		\$23,200
Storm drainage infrastructure	1.0	acre	\$26,400.00	\$33,884.91		\$32,700
Connections, re-routes, shutdowns, etc.	1	ls	\$50,000.00	\$64,175.96	/ls	\$64,200
TOTAL: C3 Utility II	nfrastructure		42,000	\$6.32	\$/sf	\$265,500
C4 Sitework						
Site Improvements				_		
Connecting roadways	3,500	sf	\$12.00	\$15.40		\$53,900
Pedestrian circulation	4,500	sf	\$20.00	\$25.67		\$115,500
Premium for enhanced paving / plaza	2,250	sf	\$15.00	\$19.25		\$43,300
Loading dock, MEP yard	7,500	sf	\$25.00	\$32.09		\$240,700
Landscaping, enhanced	3,000	sf	\$10.00	\$12.84		\$38,500
Landscaping, outlying areas	3,500	sf	\$2.50	\$3.21		\$11,200
Site retaining	150	lf	\$485.00	\$622.51		\$93,400
Site stairs, railings, walls	1	ls	\$10,000.00	\$12,835.19		\$12,800
Signage, specialties	1	ls	\$5,000.00	\$6,417.60		\$6,400
Tie-ins with existing surfaces	1	ls	\$5,000.00	\$6,417.60		\$6,400
Site lighting	22,000	sf	\$1.00	\$1.28		\$28,200
Additional surface drainage	22,000	sf	\$0.50	\$0.64	/sf	\$14,100
TOTAL	: C4 Sitework		42,000	\$15.82	\$/sf	\$664,400

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D. ADA Enhancements
Construction Cost Back-Up

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			Unit Price	Unit Price		
escription	Quanti	ty	(Raw)	(M/Up)	Grand Total	
1 Building Enhancements			· ·	` '		
Building 1						
Prep Work						
Form access to work	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
ADA Barrier Removal						
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60 /loc	\$25,700	
Relocate AED to accessible location	1	ea	\$250.00	\$320.88 /ea	\$300	
Extend ramp rails at Building 2 (Allow 36" total)	4	loc	\$750.00	\$962.64 /loc	\$3,900	
Remove / replace door closers	6	ea	\$450.00	\$577.58 /ea	\$3,500	
Modify transaction windows, lower window units	3	loc	\$1,200.00	\$1,540.22 /loc	\$4,600	
Modify transaction windows, raise shelf unit	1	loc	\$500.00	\$641.76 /loc	\$600	
Lower PT dispensers in restrooms	4	ea	\$150.00	\$192.53 /ea	\$800	
Add grab bars at ADA stalls	4	ea	\$275.00	\$352.97 /ea	\$1,400	
Reposition grab bars at ADA stalls	1	ea	\$250.00	\$320.88 /ea	\$300	
Add self closing hinges at existing ADA stalls	4	ea	\$450.00	\$577.58 /ea	\$2,300	
Add pull door hardware at existing ADA stalls	8	ea	\$500.00	\$641.76 /ea	\$5,100	
Patch Repairs						
Patch repairs	15%			/	\$9,200	
Small project premium, supervision, mobilizations, etc.	20%			/	\$14,100	
Building 2						
Prep Work						
Form access to work	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
ADA Barrier Removal						
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60 /loc	\$25,700	
Relocate AED to accessible location	1	ea	\$250.00	\$320.88 /ea	\$300	
Relocate fire extinguishers to accessible location	2	ea	\$250.00	\$320.88 /ea	\$600	
Remove / replace door closers	12	ea	\$450.00	\$577.58 /ea	\$6,900	
Replace door knobs with lever handles	38	ea	\$300.00	\$385.06 /ea	\$14,600	
Add accessible table at student lounge	1	ea	\$1,500.00	\$1,925.28 /ea	\$1,900	
Lower PT dispensers in restrooms	5	ea	\$150.00	\$192.53 /ea	\$1,000	
Add grab bars at ADA stalls	6	ea	\$275.00	\$352.97 /ea	\$2,100	
Raise TP dispensers	6	ea	\$200.00	\$256.70 /ea	\$1,500	
Add self closing hinges at existing ADA stalls	6	ea	\$450.00	\$577.58 /ea	\$3,500	
Add pull door hardware at existing ADA stalls	12	ea	\$500.00	\$641.76 /ea	\$7,700	
Patch Repairs						
Patch repairs	15%			/	\$11,800	
Small project premium, supervision, mobilizations, etc.	20%			/	\$18,100	
Building 3						
Prep Work						
Form access to work	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400	
ADA Barrier Removal						
Recess slab for entry mats	1	loc	\$5,000.00	\$6,417.60 /loc	\$6,400	
Relocate AED to accessible location	2	ea	\$250.00	\$320.88 /ea	\$600	
Relocate fire extinguishers to accessible location	7	ea	\$250.00	\$320.88 /ea	\$2,200	
Replace elevator cab	1	ea	\$75,000.00	\$96,263.94 /ea	\$96,300	
Lower elevator cab controls	1	ls	\$2,000.00	\$2,567.04 /ls	\$2,600	
Modify / relocate toilet room doors	4	ea	\$3,500.00	\$4,492.32 /ea	\$18,000	
Relocate wall mounted signage	6	ea	\$250.00	\$320.88 /ea	\$1,900	
Remove / replace door closers	4	ea	\$600.00	\$770.11 /ea	\$3,100	
Replace door knobs with lever handles	49	ea	\$400.00	\$513.41 /ea	\$25,200	
Lower PT dispensers in restrooms	2	ea	\$150.00	\$192.53 /ea	\$400	
Raise WC / seats	4	ea	\$1,500.00	\$1,925.28 /ea	\$7,700	

PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Description	Quantity		Unit Price (Raw)	Unit Price (M/Up)		Grand Total
Add grab bars at ADA stalls	4	ea	\$275.00	\$352.97		\$1,400
Add self closing hinges / locks at existing ADA stalls	4	ea	\$695.00	\$892.05	/ea	\$3,600
Modify / replace ADA cubicles as required	6	ea	\$5,000.00	\$6,417.60	/ea	\$38,500
Reposition grab bars at ADA stalls	4	ea	\$250.00	\$320.88	/ea	\$1,300
Remove and replace grab bars	4	ea	\$435.00	\$558.33	/ea	\$2,200
Relocate flush valve handles	4	ea	\$750.00	\$962.64	/ea	\$3,900
Lower coat hooks	4	ea	\$50.00	\$64.18	/ea	\$300
Patch Repairs						
Patch repairs	15%				/	\$34,300
Small project premium, supervision, mobilizations, etc.	20%				/	\$52,500
Building 5						
Prep Work						
Form access to work	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400
Temporary protection	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400
ADA Barrier Removal						
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60	/loc	\$25,700
Relocate AED to accessible location		ea	\$250.00	\$320.88	/ea	
Relocate fire extinguishers to accessible location	4	ea	\$250.00	\$320.88	/ea	\$1,300
Replace elevator cab	1	ea	\$75,000.00	\$96,263.94	/ea	\$96,300
Reconfigure approach to stage lift, allowance	1	ls	\$25,000.00	\$32,087.98	/ls	\$32,100
Modify / relocate doors	6	ea	\$3,500.00	\$4,492.32	/ea	\$27,000
Remove / replace door closers	8	ea	\$600.00	\$770.11	/ea	\$6,200
Replace door knobs with lever handles	14	ea	\$400.00	\$513.41	/ea	\$7,200
Reconfigure assembly seating, allowance	1	ls	\$20,000.00	\$25,670.38	/ls	\$25,700
Lower PT dispensers in restrooms	6	ea	\$150.00	\$192.53	/ea	\$1,200
Raise WC / seats	2	ea	\$1,500.00	\$1,925.28	/ea	\$3,900
Reposition grab bars at ADA stalls	28	ea	\$200.00	\$256.70	/ea	\$7,200
Add self closing hinges at existing ADA stalls	6	ea	\$350.00	\$449.23	/ea	\$2,700
Relocate flush valve handles	8	ea	\$750.00	\$962.64	/ea	\$7,700
Patch Repairs						
Patch repairs	15%				/	\$38,600
Small project premium, supervision, mobilizations, etc.	20%				/	\$59,100

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Description	Quantity		Unit Price	Unit Price	Grand Tota	Grand Total	
Building 6			(Raw)	(M/Up)			
Prep Work							
Form access to work	1	ls	\$5,000.00	\$6,417.60 /	\$6,4	100	
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /1			
ADA Barrier Removal	1	15	φ3,000.00	φ0,417.00 /1	φ0,4	+00	
Recess slab for entry mats	1	loc	\$5,000.00	\$6,417.60 /	oc \$6,4	100	
Relocate water coolers	2	ea	\$1,500.00	\$1,925.28 /			
Relocate water coolers Relocate fire extinguishers to accessible location	5	ea	\$250.00	\$320.88 /			
Remove / replace door closers	12	ea	\$600.00	\$770.11 /e			
Replace door knobs with lever handles	19	ea	\$400.00	\$513.41 /e			
Modify transaction windows, lower window units	2	loc	\$800.00	\$1,026.82 /			
Lower PT dispensers in restrooms	2		\$150.00	\$1,020.02 /		400	
Raise WC / seats	2	ea ea	\$1,500.00	\$1,925.28 /e			
Add grab bars	2		\$275.00	\$352.97 /e		700	
Raise TP dispensers	4	ea ea	\$200.00	\$256.70 /e			
Add self closing hinges / locks at existing ADA stalls	2		\$695.00	\$892.05 /			
Reposition grab bars at ADA stalls	6	ea	\$200.00	\$256.70 /e			
	6	ea	\$5,000.00	\$6,417.60 /e			
Modify / replace ADA cubicles as required		ea					
Relocate flush valve handles	2 2	ea	\$750.00	\$962.64 /6			
Lower coat hooks	2	ea	\$50.00	\$64.18 /	ea \$1	100	
Patch Repairs	150/			,	414	700	
Patch repairs	15%			/	\$14,3		
Small project premium, supervision, mobilizations, etc.	20%			/	\$22,0)00	
Building 8							
Prep Work							
Form access to work	1	ls	\$5,000.00	\$6,417.60 /1	\$6,4	100	
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /1	\$6,4	100	
ADA Barrier Removal							
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60 //	oc \$25,7	700	
Relocate water coolers	1	ea	\$1,500.00	\$1,925.28 /6	ea \$1,9	900	
Modify / relocate doors	6	ea	\$3,500.00	\$4,492.32 /6	ea \$27,0	000	
Increase privacy wall openings	2	loc	\$3,600.00	\$4,620.67 /1	oc \$9,2	200	
Relocate WC fixtures	2	ea	\$3,500.00	\$4,492.32 /6	ea \$9,0	000	
Add grab bars	2	ea	\$275.00	\$352.97 /6	ea \$7	700	
Raise TP dispensers	2	ea	\$200.00	\$256.70 /6	ea \$5	500	
Lower existing mirrors	2	ea	\$695.00	\$892.05 /6	ea \$1,8	300	
Reposition grab bars at ADA stalls	6	ea	\$450.00	\$577.58 /6	ea \$3,5	500	
Add self closing hinges at existing ADA stalls	2	ea	\$450.00	\$577.58 /6			
Relocate flush valve handles	2	ea	\$750.00	\$962.64 /6			
Patch Repairs							
Patch repairs	15%			/	\$14,3	300	
Small project premium, supervision, mobilizations, etc.	20%			/	\$21,9	900	
					. ,		

PROJECT - DTCC - Campus Master-Plan CLIENT - Durham Technical Community College LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Description	Quantity		Unit Price (Raw)	Unit Price (M/Up)		Grand Total	
Building 9							
Prep Work							
Form access to work	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
Temporary protection	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
ADA Barrier Removal							
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60		\$25,700	
Relocate AED to accessible location	2	ea	\$250.00	\$320.88	/ea	\$600	
Increase entry vestibule openings	1	loc	\$10,000.00	\$12,835.19	/loc	\$12,800	
Relocate doors / infill openings	4	ea	\$2,800.00	\$3,593.85	/ea	\$14,400	
Remove / replace door closers	6	ea	\$600.00	\$770.11	/ea	\$4,600	
Remove / replace locker benches, 36" long	2	ea	\$900.00	\$1,155.17	/ea	\$2,300	
Relocate WC fixtures	4	ea	\$3,500.00	\$4,492.32	/ea	\$18,000	
Raise / lower TP dispensers	8	ea	\$200.00	\$256.70	/ea	\$2,100	
Add grab bars at ADA stalls	4	ea	\$275.00	\$352.97	/ea	\$1,400	
Relocate flush valve handles	4	ea	\$750.00	\$962.64	/ea	\$3,900	
Add self closing hinges at existing ADA stalls	4	ea	\$450.00	\$577.58	/ea	\$2,300	
Add pull door hardware at existing ADA stalls	8	ea	\$500.00	\$641.76	/ea	\$5,100	
Lower coat hooks	4	ea	\$50.00	\$64.18	/ea	\$300	
Patch Repairs							
Patch repairs	15%				/	\$15,900	
Small project premium, supervision, mobilizations, etc.	20%				/	\$24,400	
Building 10							
Prep Work							
Form access to work	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
Temporary protection	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
ADA Barrier Removal							
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60	/loc	\$25,700	
Relocate AED to accessible location	3	ea	\$250.00	\$320.88	/ea	\$1,000	
Remove / replace door closers	6	ea	\$600.00	\$770.11	/ea	\$4,600	
Modify transaction windows, lower window units	1	loc	\$1,200.00	\$1,540.22	/loc	\$1,500	
Increase privacy wall openings	3	loc	\$3,600.00	\$4,620.67	/loc	\$13,900	
Add grab bars at ADA stalls	6	ea	\$275.00	\$352.97	/ea	\$2,100	
Reposition grab bars at ADA stalls	12	ea	\$250.00	\$320.88	/ea	\$3,900	
Lower PT dispensers in restrooms	3	ea	\$200.00	\$256.70	/ea	\$800	
Patch Repairs							
Patch repairs	15%				/	\$9,900	
Small project premium, supervision, mobilizations, etc.	20%				/	\$15,200	

see Building 12 / 13

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D. ADA Enhancements

East Lawson Cross Walks

Description	Quanti	ty	Unit Price (Raw)	Unit Price (M/Up)	Grand Total
Building 20			· ·	·	
Prep Work					
Form access to work	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400
Temporary protection	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400
ADA Barrier Removal					
Recess slab for entry mats	4	loc	\$5,000.00	\$6,417.60 /loc	\$25,700
Replace automatic actuator button	1	ea	\$1,250.00	\$1,604.40 /ea	\$1,600
Increase accessible width to urinals / TPs at RRs	3	loc	\$4,000.00	\$5,134.08 /loc	\$15,400
Remove / replace door closers	2	ea	\$600.00	\$770.11 /ea	\$1,500
Reposition grab bars at ADA stalls	2	ea	\$375.00	\$481.32 /ea	\$1,000
Add grab bars at ADA stalls	2	ea	\$350.00	\$449.23 /ea	\$900
Add self closing hinges at existing ADA stalls	2	ea	\$450.00	\$577.58 /ea	\$1,200
Add pull door hardware at existing ADA stalls	2	ea	\$500.00	\$641.76 /ea	\$1,300
Lower coat hooks	2	ea	\$50.00	\$64.18 /ea	\$100
Lower PT dispensers in restrooms	2	ea	\$200.00	\$256.70 /ea	\$500
Patch Repairs					
Patch repairs	15%			/	\$9,300
Small project premium, supervision, mobilizations, etc.	20%				\$14,300
TOTAL: D1 Building Enl	nancements			\$/sf	\$1,449,900
D2 Campus Pathways North Quad Railings / Crosswalk				see E	Building North Quad
Building 9 Railings					see Building 13
Building 10 Railings					see Building 13
Lower Quadrangle - Ramp 1					see Building 12
Lower Quadrangle - Ramp 2					see Building 13

TOTAL: D2 Campus Pathways

n/a

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E. Building 1 & 2 Courtyard Enhancements
Construction Cost Back-Up

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E. Building 1 & 2 Courtyard Enhancements

Description	Quanti	ty	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
E1. Courtyard Enhancements						
Building 1 Modifications						
Cut openings in existing ext walls for roller doors	3	ea	\$6,500.00	\$8,342.87 /		\$25,000
Prep slab / structural around openings	3	ea	\$3,500.00	\$4,492.32 /		\$13,500
New roller doors, assume 15' x 12'	3	ea	\$20,000.00	\$25,670.38 /		\$77,000
Flashings / trim around openings	90	lf	\$50.00	\$64.18 /1		\$5,800
Patch repair exterior surfaces	225	sf	\$25.00	\$32.09 /		\$7,200
Patch repair interior surfaces	225	sf	\$10.00	\$12.84 /		\$2,900
Temporary protection	3	loc	\$750.00	\$962.64 /1	loc	\$2,900
Building 2 Modifications						
Prep existing exterior wall for new mural finish	2,000	sf	\$7.50	\$9.63 /	sf	\$19,300
Overhead Shade Structure (Between Bldg 1 & 2)						
Overhead trellis structure, allow 1,500 sf	1,500	sf	\$250.00	\$320.88 /	sf	\$481,300
Structural connections with existing buildings	2	loc	\$10,000.00	\$12,835.19 /1	loc	\$25,700
Roofing patching / flashings	2	loc	\$15,000.00	\$19,252.79 /1	loc	\$38,500
Lighting	1,500	sf	\$20.00	\$25.67 /	sf	\$38,500
Courtyard Improvements						
Form access, demolition, preparation	1	ls	\$1,000.00	\$1,283.52 /1	ls	\$1,300
Regrading	7,000	sf	\$3.00	\$3.85 /	sf	\$27,000
Site improvements - pedestrian	2,800	sf	\$25.00	\$32.09 /	sf	\$89,800
Site improvements - landscaping	4,200	sf	\$10.00	\$12.84 /	sf	\$53,900
Water feature, allowance	1	ls	\$50,000.00	\$64,175.96 /1	ls	\$64,200
Slab for new transformer	250	sf	\$15.00	\$19.25 /		\$4,800
Screen wall footings	50	lf	\$125.00	\$160.44 //		\$8,000
Screen wall around transformer	300	sf	\$40.00	\$51.34 /		\$15,400
Screen wall cap	50	lf	\$80.00	\$102.68 //		\$5,100
Metal gate access to transformer	1	set	\$5,000.00	\$6,417.60 /		\$6,400
Caulking / sealants	7,000	sf	\$1.00	\$1.28 /		\$9,000
Site signage	1	ls	\$1,500.00	\$1,925.28 /1		\$1,900
Site specialties	1	ls	\$5,000.00	\$6,417.60 /1		\$6,400
Site utility modifications	7,000	sf	\$2.00	\$2.57 /		\$18,000
Site drainage	7,000	sf	\$2.50	\$3.21 /		\$22,500
Site lighting	7,000	sf	\$2.50	\$3.21 /		\$22,500
Relocate transformer	1	ls	\$127,000.00	\$163,006.93 //		\$163,000
Tie-ins with existing surfaces	1	ls	\$3,000.00	\$3,850.56 /1	İs	\$3,900

TOTAL: E1. Courtyard Enhancements \$180.10 \$/sf \$1,260,700

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F. North Quad Enhancements Construction Cost Back-Up

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F. North Quad Enhancements

Description	Quanti	ity	Unit Price (Raw)	Unit Price (M/Up)	Grand Total
F1 North Quad Enhancements					
Ramp / Cross Walk at Building 1 / 6					
Form access to work / temporary protection	2	loc	\$1,500.00	\$1,925.28 /loc	\$3,900
Add compliant railings to existing ramp ways	100	lf	\$240.00	\$308.04 /lf	\$30,800
Demo existing walkway / regrade	240	sf	\$10.00	\$12.84 /sf	\$3,100
Add new ADA compliant crosswalk, including striping	240	sf	\$30.00	\$38.51 /sf	\$9,200
Associated striping / signage	1	ls	\$1,000.00	\$1,283.52 /ls	\$1,300
Patch repairs	2	loc	\$1,500.00	\$1,925.28 /loc	\$3,900
Areaway Renovations at Building 3					
Form access	1	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
Demolition of existing retaining wall	1,500	sf	\$30.00	\$38.51 /sf	\$57,800
Temporary supports	1	ls	\$30,000.00	\$38,505.57 /ls	\$38,500
Excavation / off haul to form new basement	433	су	\$45.00	\$57.76 /cy	\$25,000
Waterproofing upgrades as required	500	sf	\$20.00	\$25.67 /sf	\$12,800
Patch existing basement wall, now exposed	360	sf	\$24.00	\$30.80 /sf	\$11,100
Footings for new retaining walls	824	lf	\$50.00	\$64.18 /lf	\$52,900
New concrete retaining walls	580	sf	\$60.00	\$77.01 /sf	\$44,700
Retaining wall tops	124	lf	\$50.00	\$64.18 /lf	\$8,000
Terraced concrete benches, 21" x 21"	600	lf	\$385.00	\$494.15 /lf	\$296,500
Concrete steps	75	lfr	\$75.00	\$96.26 /lfr	\$7,200
Concrete seatwall, 30" x 30"	120	lf	\$450.00	\$577.58 /lf	\$69,300
Railings	300	lf	\$255.00	\$327.30 /lf	\$98,200
Site improvements - pedestrian	500	sf	\$25.00	\$32.09 /sf	\$16,000
Site improvements - landscaping	2,000	sf	\$15.00	\$19.25 /sf	\$38,500
Site signage	1	ls	\$3,000.00	\$3,850.56 /ls	\$3,900
Site specialties	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400
Modifications to existing bridges, 20'-0" x 7'-0"	2	ea	\$35,000.00	\$44,923.17 /ea	\$89,800
Site utility modifications	1,200	sf	\$3.00	\$3.85 /sf	\$4,600
Site drainage	1,200	sf	\$2.00	\$2.57 /sf	\$3,100
Site lighting - bollards / uplights	42	ea	\$500.00	\$641.76 /ea	\$27,000
Tie-ins with existing surfaces	1	ls	\$5,000.00	\$6,417.60 /ls	\$6,400
Shade Structure / Landscaping at Building 1					
Form access	1	ls	\$500.00	\$641.76 /ls	\$600
Demolition and regrading	4,200	sf	\$3.50	\$4.49 /sf	\$18,900
Demolish existing addition, complete, off haul	775	sf	\$25.00	\$32.09 /sf	\$24,900
Site improvements - pedestrian	1,050	sf	\$25.00	\$32.09 /sf	\$33,700
Site improvements - landscaping	3,150	sf	\$8.00	\$10.27 /sf	\$32,300
New shade structure / outdoor classroom	2,000	sf	\$200.00	\$256.70 /sf	\$513,400
Lighting and power at classroom	2,000	sf	\$15.00	\$19.25 /sf	\$38,500
New landscaping at existing Building demo area	775	sf	\$8.00	\$10.27 /sf	\$8,000
New seat walls	25	If	\$400.00	\$513.41 /lf	\$12,800
Site signage	1	ls	\$1,000.00	\$1,283.52 /ls	\$1,300
Site specialties	1	ls	\$2,500.00	\$3,208.80 /ls	\$3,200
Site utility modifications	4,200	sf	\$2,500.00	\$3,200.00 /1s \$3.21 /sf	\$13,500
Site drainage	4,200	sf	\$2.00	\$2.57 /sf	\$10,800
Site lighting	4,200	sf	\$2.00	\$2.57 /sf	\$10,800
Tie-ins with existing surfaces	4,200	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
The the with existing surroces	1	13	Ψ1,000.00	Ψ1,720.20 /13	Ψ1,700
TOTAL: F1 North Quad E	nhancements			- \$/sf	\$1.696.400

DTCC - Campus Master-Plan Durham Technical Community College Durham, NC Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

G. Campus Landscape Enhancements
Construction Cost Back-Up

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PROJECT - DTCC - Campus Master-Plan **CLIENT - Durham Technical Community College** LOCATION - Durham, NC STAGE - Rough Order of Magnitude (R3)

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G. Campus Landscape Enhancements

escription	Quanti	ty	Unit Price (Raw)	Unit Price (M/Up)	Grand Total
1. Campus Landscape Enhancements					
Landscape Improvements					
North Lot					
Remove overgrown trees / shrubs	10	ea	\$450.00	\$577.58 /ea	\$5,800
Demo portion of parking lot for new tree install	12	ea	\$200.00	\$256.70 /ea	\$3,100
New evergreen shrub hedge at lot	700	lf	\$45.00	\$57.76 /lf	\$40,400
New evergreen shrub hedge at outdoor mtg space	215	lf	\$45.00	\$57.76 /lf	\$12,400
New flowering trees	20	ea	\$750.00	\$962.64 /ea	\$19,300
Associated topsoil, ground cover	15,000	sf	\$2.00	\$2.57 /sf	\$38,500
Patch repairs	1	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
Building 1 & 5 Lot					
Demo portion of parking lot for new tree install	12	ea	\$200.00	\$256.70 /ea	\$3,100
New shade trees to center median	12	ea	\$900.00	\$1,155.17 /ea	\$13,900
Extend existing median including demo / grading	3,750	sf	\$15.00	\$19.25 /sf	\$72,200
Patch repairs	1	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
Buildings 8 & 10					
Add evergreen shrubbery	75	ea	\$75.00	\$96.26 /ea	\$7,200
Remove overgrown trees / shrubs	10	ea	\$450.00	\$577.58 /ea	\$5,800
New flowering trees	10	ea	\$750.00	\$962.64 /ea	\$9,600
New small trees	10	ea	\$600.00	\$770.11 /ea	\$7,700
Associated topsoil, ground cover	10,000	sf	\$2.00	\$2.57 /sf	\$25,700
Paint existing fencing	3,500	sf	\$1.95	\$2.50 /sf	\$8,800
Patch repairs	1	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
Buildings 4 & 7					
Add hedge screening	375	lf	\$45.00	\$57.76 /lf	\$21,700
Add shrub planting	50	ea	\$75.00	\$96.26 /ea	\$4,800
Add shade trees	8	ea	\$950.00	\$1,219.34 /ea	\$9,800
Add flowering trees	8	ea	\$750.00	\$962.64 /ea	\$7,700
Associated topsoil, ground cover	2,500	sf	\$2.00	\$2.57 /sf	\$6,400
New pedestrian bridge over drainage ditch	100	sf	\$275.00	\$352.97 /sf	\$35,300
Patch repairs	1	ls	\$1,500.00	\$1,925.28 /ls	\$1,900
TOTAL: G1. Campus Landscape I	Enhancements			\$11.74 \$/sf	\$366.800

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DTCC - Campus Master-Plan Durham Technical Community College Durham, NC Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

H. Wayfinding Refresh Construction Cost Back-Up

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H. Wayfinding Refresh

Description	Quant	ity	Unit Price (Raw)	Unit Price (M/Up)		Grand Total
H1 Campus Signage Upgrades						
Campus Signage (including demo, footings, etc.)						
Visitor parking signage	4	ea	\$750.00	\$962.64	/ea	\$3,900
Directory signage	7	ea	\$900.00	\$1,155.17	/ea	\$8,100
Vehicular signage	2	ea	\$650.00	\$834.29	/ea	\$1,700
Miscellaneous signage allowance	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400
Offsite Signage						
New landscape planting enhancements on E. Lawson	3	loc	\$25,000.00	\$32,087.98	/loc	\$96,300
Add new monumental signage	3	loc	\$50,000.00	\$64,175.96	/loc	\$192,500
Patch repairs	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400
TOTAL: H1 Campus Signa	ge Upgrades			- ;	\$/sf	\$315,300

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I. Building 9 Refresh
Construction Cost Back-Up

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I. Building 9 Refresh

Description	Quantity		Unit Price (Raw)	Unit Price (M/Up)		Grand Total	
I1 Building 9 Interior Upgrade							
Interior Renovation (50% of Floor Area)							
Demolition and prep	25,250	sf	\$8.00	\$10.27		\$259,300	
Interior reconfiguration	25,250	sf	\$30.00	\$38.51		\$972,300	
Interior improvements	25,250	sf	\$40.00	\$51.34		\$1,296,400	
MEP upgrades	25,250	sf	\$100.00	\$128.35	/sf	\$3,240,900	
Exterior Upgrades							
Patch / repair envelope resulting from interior renov.	30,000	sf	\$5.00	\$6.42		\$192,500	
Patch / repair roofing resulting from interior renov.	28,000	sf	\$1.50	\$1.93		\$53,900	
Window replacement					/	N/A	
Roofing replacement					/	N/A	
Structural Upgrade							
Structural upgrades					/	N/A	
Other							
Hazardous material abatement					/	N/A	
TOTAL: 11 Building 9 Interior	Upgrade		50,500	\$119.11	\$/sf	\$6,015,300	
I2 Add Student Study Program							
Add Study Program (2,000 sf)							
Demolition and prep	2,500	sf	\$15.00	\$19.25		\$48,100	
Interior reconfiguration, complete	2,500	sf	\$180.00	\$231.03		\$577,600	
Temporary protection / phasing	10.0%				/	\$62,600	
TOTAL: I2 Add Student Study	Program		2,500	\$275.32	\$/sf	\$688,300	
13 Add Coffee Shop Program							
Add Coffee Shop (600 sf)							
Demolition and prep	800	sf	\$15.00	\$19.25	/sf	\$15,400	
Interior reconfiguration, complete	400	sf	\$200.00	\$256.70	/sf	\$102,700	
Food service equipment / storage	400	sf	\$250.00	\$320.88	/sf	\$128,400	
Seating area	400	sf	\$75.00	\$96.26	/sf	\$38,500	
Temporary protection / phasing	10.0%				/	\$24,700	
TOTAL: 13 Add Coffee Shop	Program		800	\$387.13	\$/sf	\$309,700	
14 Courtyard & Screening Upgrades							
Courtyard Enhancements (50' x 50')							
Form access, demolition, preparation	2,500	sf	\$2.50	\$3.21		\$8,000	
Regrading	2,500	sf	\$6.00	\$7.70		\$19,300	
Site improvements - hardscape	1,100	sf	\$35.00	\$44.92	/sf	\$49,400	
Site improvements - landscape	1,000	sf	\$12.50	\$16.04	/sf	\$16,000	
Accessible pathway / ramp	400	sf	\$30.00	\$38.51	/sf	\$15,400	
Steps / railings	1	ls	\$3,000.00	\$3,850.56	/ls	\$3,900	
Courtyard access / envelope modifications	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
Site signage	1	ls	\$1,000.00	\$1,283.52	/ls	\$1,300	
Site specialties	1	ls	\$3,000.00	\$3,850.56	/ls	\$3,900	
Site utility modifications	1	ls	\$5,000.00	\$6,417.60	/ls	\$6,400	
Site drainage	2,500	sf	\$2.00	\$2.57	/sf	\$6,400	
Site lighting	2,500	sf	\$2.00	\$2.57	/sf	\$6,400	
Tie-ins with existing surfaces	1	ls	\$1,500.00	\$1,925.28	/ls	\$1,900	

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I. Building 9 Refresh

escription	Quantity		Unit Price (Raw)	Unit Price (M/Up)		Grand Total	
Screening							
Treat / prune existing trees / shrubs	1	ls	\$2,500.00	\$3,208.80	/ls	\$3,200	
Add new flowering trees	10	ea	\$750.00	\$962.64	/ea	\$9,600	
Add shade trees	6	ea	\$950.00	\$1,219.34	/ea	\$7,300	
Enhance existing patio area planting	4,000	sf	\$3.00	\$3.85	/sf	\$15,400	
Clean existing trench drains	1	sf	\$500.00	\$641.76	/sf	\$600	
Add new seatwall	120	lf	\$400.00	\$513.41	/lf	\$61,600	
TOTAL: 14 Courtyard & Scree 5 Roofing Replacement Existing Roof Replacement	ening Upgrades		2,500	\$96.96	\$/st	\$242,400	
Demolish existing roof covering	24,782	sf	\$1.00	\$1.28	/sf	\$31,800	
New single ply roofing finish, on existing insulation	24,782	sf	\$12.00	\$15.40	/sf	\$381,700	
Flashings / copings	24,782	sf	\$1.00	\$1.28	/sf	\$31,800	
Roof drainage modifications	24,782	sf	\$0.50	\$0.64	/sf	\$15,900	
Roof specialties	1	ls	\$2,500.00	\$3,208.80	/ls	\$3,200	
Temporary roofing	24,782	sf			/sf	included	
TOTAL: 15 Roofin	ng Replacement		24,782	\$18.74	\$/sf	\$464,400	

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Appendices

Scope Assumptions
Indirect Cost Breakdown
Soft Cost Breakdown
Escalation Overview
Building \$ / GSF Overview

DTCC Master-Plan Page 32 of 40

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Conceptual Cost Estimate: Scope Assumptions Phase Key

r				
Phase	Key Data Points	Scope Assumptions	Major Allowances *	Exclusions
A. Building 12 (Health Science)	80,000 sf Building	- 3 story building, above grade	- Food service equip = \$600,000	- Contaminated soils removal
	7.4 acre site	- Marquee building status	- Sitework specialties = \$100,000	- Underpinning
	New 150 stall parking lot	- Connector bridge over E Lawson.	- Bridge tower = \$750,000	- Low voltage devices / cable
	New 121 stall parking lot	- Bridge assumed unenclosed	- Oversize bridge structure = \$240,000	- Traffic signalization
	19,200 sf offsite improvements	- Light renovation at Bldg 5 level 2	- Building 5 new entry = \$290,000	- Rock excavation
	Bridge walk, 200 lf x 12.5 lf wide	- Cut / fill - export condition (25%)	- Offsite phasing premium = 15.00%	- Department relocation
	1,500 sf Building 5 plaza renov.	- New AC surface lots		
	5,800 sf Building 5 renovation	- Pedestrian circulation and plazas		
	24 month duration	- Outdoor learning (25,000 sf)		
		- Site retaining (60") x 300 lf		
		- Site terracing, 1,200 lf		
		- Lower quad ramps / connectivity		
		- Resurface of existing E. Lawson		
		- Add parking off E. Lawson (3,000 sf)		
		- New median at E. Lawson		
		- New crosswalk at E. Lawson		
B. Building 13 (Life Science Ed)	35,820 sf Building	- 1 story building, above grade	- Offsite phasing premium = 15.00%	- Contaminated soils removal
	37,000 sf existing bldg demo	- Classroom / training facility		- Underpinning
	4.7 acre site	- Engagement w/ local industry		- Low voltage devices / cable
	91,000 sf lot	- Student visit opportunities		- Traffic signalization
	19,500 sf offsite improvements	- Demolition of existing building		- Rock excavation
	18 month duration	- Cut / fill - export condition (25%)		- Department relocation
		- New AC surface lots		
		- Pedestrian circulation and plazas		
		- Outdoor learning (10,000 sf)		
		- Site retaining (60") x 150 lf		
		- Site terracing, 250 If		
		- Lower quad ramps / connectivity		
		- New railings at Bldg 10 ramp		
		- Resurface of existing E. Lawson		
		- Add parking off E. Lawson (4,000 sf)		
		- New median at E. Lawson		
		- New crosswalk at E. Lawson		

DTCC Master-Plan Detailed Scope Assumptions Page 33 of 40

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Conceptual Cost Estimate: Scope Assumptions

Phase	Key Data Points	Scope Assumptions	Major Allowances *	Exclusions
C. Building 14 (Applied Technology)	20,000 sf Building	- 1 story building, above grade		- Contaminated soils removal
	1.0 acre site	- High bay structure required		- Underpinning
	20,000 sf existing bldg demo	- Pedestrian circulation and plazas		- Low voltage devices / cable
	15 month duration	- Site retaining (60") x 150 lf		- Traffic signalization
				- Rock excavation
				- Department relocation
				- Off site work
D. ADA Enhancements	Select upgrades Buildings 1 - 3,	Site ADA upgrades - moved to Bldgs	- 20% premium for small projects	- Bldg 2 Assembly seating upgrades
	5, 6, 8 - 10, and 20	9, 12, and 13	- 15% premium for interior patching	- Bldg 5 Assembly seating upgrades
				- Bldg 9 Assembly seating upgrades
E. Building 1 & 2 Courtyard Enhancements	7,000 sf of site improvements	- New pedestrian paving / plaza	- Water feature = \$50,000	- Contaminated soils removal
	2,000 sf shade structure	- New landscaping in courtyard	- Transformer relo = \$127,000	- Rock excavation
	3 month duration	- Coiling doors (3) added to Bldg 1	- Roof / structure mods at new	- Wall mural finishes
		- New enclosure around (e) t/former	shade structure = \$50,000	
		- New wall mural prep only	- Shade trellis (b/w Bldgs) = \$270 / sf	
		- New water feature		
		- New shade structure between bldgs		
		- Surface drainage & lighting upgrades		
F. North Quad Enhancements	8,000 sf of site improvements	- New cross walk / rails at Bldg 1 & 6	- Bridge upgrades = \$35k / each	- Contaminated soils removal
	Bldg 1 shade str. = 2,000 sf	- Change areaway to terrace design	- Shade structure = \$200 / sf	- Rock excavation
	Bldg 1 demo addition = 775 sf	- 6 rows + of PIP concrete terracing		- Bridge replacement
	6 month duration	- New terrace 100' long		
		- New metal railings at terrace		
		- Upgrade existing walkway bridges		
		- New bollards and uplighting		
G. Campus Landscape Enhancements	Multiple upgrade locations	- Tree / planting replacement	- Bridge upgrades = \$35,000 / each	- Contaminated soils removal
	32,000 sf landscape upgrade	- Tree / planting augmentation		- Rock excavation
	6 month duration	- New shrubbery		
	1	- North lot		
	1	- Building 1 & 5 lot		
	1	- Building 8 & 10		
	1	- Building 4 & 7		
		- Bridge upgrades		

DTCC Master-Plan Detailed Scope Assumptions Page 34 of 40

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3) Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Conceptual Cost Estimate: Scope Assumptions

Phase	Key Data Points	Scope Assumptions	Major Allowances *	Exclusions
H. Wayfinding Refresh	13+ site signage locations	- New code and way finding signage	- Monumental signage = \$50k x 3 loc	- Branding signage
	3 month duration	- 13 + identified sign replacements		- Graphic signage
		- New monument signage		- Exterior building signage
		- New off site landscape planting		- Interior building signage
I. Building 9 Refresh	50,5000 sf existing building	- Moderate interior renovation	Coffee shop food equipment = \$125k	- Contaminated soils removal
	50% of existing to be renovated	- Existing layout to remain in place		- Underpinning
	2,500 sf student program	- Create new IT labs		- Low voltage devices / cable
	800 sf coffee shop added	- Minor envelope patching only		- Department relocation
	2,500 sf courtyard renovation	- Moderate MEP upgrades		- Hazmat abatement at Bldg 9
	12 month duration	- Incorporate new 2,500 sf study area		- Structural upgrades at Bldg 9
		- Incorporate new 400 sf coffee shop		- Window replacement at Bldg 9
		- Incorporate new 400 sf café seating		
		- Added seatwalls 120'		
		- Enhance existing patio		
		- Replace railings at (e) ramp		
		- Exterior courtyard renovations		
		- Reroofing - single ply finish		

DTCC Master-Plan Detailed Scope Assumptions Page 35 of 40

DTCC - Campus Master-Plan
Durham Technical Community College
Durham, NC
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

INDIRECT CONSTRUCTION COST BREAKDOWN					
Description	Total				
Indirects					
General conditions	6.00%				
General requirements	4.00%				
CM fee	3.00%				
Bonding, insurances, BR	4.00%				
CM contingency	3.00%				
Design contingency	5.00%				
LEED certification premium	0.50%				
Total Soft Cost %	28.4%				

The above compound mark-up is used in the construction cost back-up for each scope section and is applied to the direct unit costs to derive overall construction costs (in current \$).

DTCC - Campus Master-Plan
Durham Technical Community College
Durham, NC
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

	SOFT COST BREAKDOWN							
Description	New	Renovation	ADA Upgrade	Wayfinding	Sitework			
Professional Fees								
AE Fees	10.00%	12.00%	8.00%	incl below	10.00%			
Specialty Consulting Fees	1.50%	2.00%	2.00%	incl below	2.00%			
Owner PM / Mgt Fees	2.00%	2.00%	1.00%	incl below	2.00%			
Inspection / Testing	0.50%	0.50%	0.50%	n/a	0.50%			
Commissioning	0.75%	0.75%	n/a	n/a	n/a			
Furnishings / IT / Equipment								
FFE	6.00%	6.00%	1.00%	n/a	1.50%			
IT Equipment / Low Voltage	4.00%	3.00%	n/a	n/a	n/a			
Audio - Visual	0.50%	0.50%	n/a	n/a	n/a			
Security	1.00%	1.00%	n/a	n/a	0.50%			
Owner Furnished Equipment	1.00%	1.00%	1.00%	n/a	1.00%			
Artwork	0.50%	0.25%	n/a	n/a	n/a			
Graphics / Branding	0.50%	0.25%	n/a	n/a	n/a			
Other								
Permitting	1.50%	1.50%	1.50%	incl below	1.50%			
Department Relocation	-	-	-	-	-			
Bidding / Legal	0.25%	0.25%	0.25%	incl below	0.25%			
Owner Contingency	3.00%	4.00%	5.00%	incl below	3.00%			
Total Soft Cost %	33.00%	35.00%	20.25%	13.00%	22.3%			

The above additive soft cost mark-up is used at the project cost summary level and is applied to the escalated total construction cost amounts for each scope section.

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

DTCC - Campus Master-Plan Durham Technical Community College Rough Order of Magnitude (R3)

Escalation Overview

Phase	MoC	2022 *	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
A. Building 12 (Health Science)	Q3 / 2025					23.1%						
B. Building 13 (Life Science Ed)	Q2 / 2025				21.6%							
C. Building 14 (Applied Technology)	Q1 / 2027						31.6%					
D. ADA Enhancements	Q3 / 2024			17.5%								
E. Building 1 & 2 Courtyard Enhancements	Q3/2025				23.6%							
F. North Quad Enhancements	Q3 / 2025				23.6%							
G. Campus Landscape Enhancements	Q3 / 2024			17.5%								
H. Wayfinding Refresh	Q3 / 2024			17.5%								
I. Building 9 Refresh	Q2 / 2028							38.6%				
Annual Escalation (to be pro-rated / compour	6.00%	6.50%	5.50%	5.00%	4.50%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	

²⁰²² escalation noted from current (June) through end of calendar year

The above compounded escalation mark-up is used at the project cost summary level and is applied to the total construction cost amounts for each scope section.

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DTCC - Campus Master-Plan

Durham Technical Community College

Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Document Log & Definitions

Document Log

The cost model was prepared using the following documents

<u>Description</u>	<u>From</u>	<u>Date</u>
Scope Exhibits (site plan / renderings)	O'Brien Atkins	not dated / received 05/09/22
Executive Summary Narrative	O'Brien Atkins	not dated / received 05/09/22
ADA Upgrade Site Plan	O'Brien Atkins	2021
Landscape Improvement Concepts	O'Brien Atkins	06/06/22
Estimate RFI Responses (Round 1)	O'Brien Atkins	05/25/22
Estimate RFI Responses (Round 2)	O'Brien Atkins	06/06/22
ADA Building Reports	O'Brien Atkins	not dated / received 06/09/22

Definitions

Direct Construction Costs

Direct construction costs within this report are intended to reflect base subcontractor level pricing / "Cost of Work". Direct unit prices assume a minimum of 3 responsive bids per bid package. Direct / subcontract unit costs include all subcontractor overhead, profit, sales tax, materials, equipment, and labor.

Indirect Construction Costs

Indirect costs are included as an overall % burden within the estimate back-up which is intended to include project general conditions, project staffing, mobilization, temporary works, bonding and insurances, subguard insurances, general contractor's fee, design contingencies, and phasing impacts. A breakdown to the overall % burden is illustrated in this report's appendices.

Escalation

While all direct construction costs are reflective of "current pricing" levels in Durham, NC, additional allowances have been included at the summary level to escalate each phase to it's corresponding midpoint of construction. Escalation has been included as a compound annual % adjustment to account for anticipated labor, material, and other external market fluctuations between the date of this estimate and each phase's mid-point. A breakdown of phase escalation is illustrated in this report's appendices.

Soft Costs

To evaluate a total project cost budget, project soft costs have been included as a % burden to overall escalated construction costs to account for non tangible costs such as design fees, FFE, IT equipment, permits, and other associated owner needs / contingencies. A breakdown of project soft costs is illustrated in this report's appendices.

Total Project Costs

Total project costs represent the sum total of direct and indirect construction costs, escalation, and soft costs.

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DTCC - Campus Master-Plan
Durham Technical Community College
Rough Order of Magnitude (R3)

Skanska USA Building Inc. 4309 Emperor Blvd, Suite 200 Durham, NC 27703 7/26/2022

Conceptual Cost Estimate: New Building Scope Overview

Within the master-plan scope of work there are numerous individual projects ranging from new construction to renovation to selective upgrades, and to campus wide enhancements. At a summary level not all of the individual master-plan projects lend themselves to a \$ / GSF type metric as each project includes multiple unique scope and cost considerations that can greatly influence the bottom line when expressed over a functional SF-age. Furthermore, some of the master-plan projects do not relate to a GSF metric at all (EG - campus wayfinding or landscape screening upgrades).

The most recognizable \$ / GSF metrics within the master-plan are for the new construction projects (Buildings 12, 13, and 14). The table below outlines the current \$ / GSF being carried for each along with an outline of what some of the key cost drivers are as well as a comparison to the corresponding \$ / GSF used in prior DTCC cost studies (the Orange Campus Master-Plan from June 2021 and the Life Science Education Study from January 2022).

Description	Notes	
A. Building 12 (Health Science)	110100	
Current Construction \$ / GSF (Bldg only)	\$550 GSF	
Current Construction \$ / GSF (Bldg + Site)	\$643 GSF	(excluding Lot 150 & E. Lawson Improvements)
Orange Campus Health Sci \$ / GSF (Bldg + Site)	\$556 GSF	(June 2021)
Variance (Current vs Orange Campus)	\$87 GSF	_ (0.0.00 = 0.0=0,
	ľ	
Cost Drivers / Consideration		
- Escalation since June 2021 (10%)	\$56 GSF	
- Marquee building premium	\$58 GSF	(welcoming element, increased glazing, enhanced
		elevations, prefunction space, etc.)
B. Building 13 (Life Science Ed)		
Current Construction \$ / GSF (Bldg only)	\$574 GSF	
Current Construction \$ / GSF (Bldg + Site)	\$691 GSF	(excluding E. Lawson Improvements & Demo)
DTCC Life Science ROM \$ / GSF (Bldg + Site)	\$629 GSF	_ (Jan 2022)
Variance (Current vs January ROM)	\$61 GSF	
Cost Drivers / Consideration		
- Escalation since Jan 2022 (3%)	\$19 GSF	
- New parking lot in lieu of resurfacing existing	\$32 GSF	(previous ROM assumed re-use of existing lot)
- GSF adjustment	\$9 GSF	(minor correction 35,820 GSF vs 35,280 SF)
C. Building 14 (Applied Technology)		
Current Construction \$ / GSF (Bldg only)	\$515 GSF	
Current Construction \$ / GSF (Bldg + Site)	\$608 GSF	
Orange Campus Skilled Trades \$ / GSF (Bldg + Site)	\$579 GSF	_ (June 2021)
Variance (Current vs Orange Campus)	\$29 GSF	
0.151(011)		
Cost Drivers / Consideration	ΦE0 00Ε	
- Escalation since June 2021 (10%)	\$58 GSF	
- Added premium for high bay structure	\$32 GSF	
- Added premium for single story impacts	\$19 GSF	
- Added site retaining element	\$5 GSF	
- Adjustment (1 acre site vs 7 acre)	-\$85 GSF	



MEETING MINUTES



Agenda/Meeting Minutes

Project: DTCC Masterplan Project Number: 2021067

Purpose: Design Workshop Meeting Location: Lyons Boardroom

Meeting Date: 4/26/2022 – 9:30am-11:00am (EST)

Prepared By: Steven Harris

Attendees in Bold:							
Name	Company	Initials	Name	Company	Initials		
Steven Harris	OBA	SH	Susan Bowens	DTCC	SB		
Jay Smith	OBA	JS	Kara Battle	DTCC	KB		
Kevin Montgomery	OBA	KM	Melissa Oakley Ockert	DTCC	MO		
John Atkins	OBA	JA	Tina Ruff	DTCC	TR		
Nix Salcedo	OBA	NS	Abraham Dones	DTCC	AD		
Kelly Wang	OBA	KW	Erica Taylor	DTCC	ET		
Josh Brady	OBA	JB	Andy Kleitsch	DTCC	AK		
JB Buxton	DTCC	JBB	Jonathan Cook	DTCC	JC		
Marshall Fuller	DTCC	MF					

ITEMS	NOTES/ ISSUES/ ACTION	RESP	DUE DATE
1.0	Project Updates and Introductions		
2.0	Survey Analysis		
2.1	JB led discussion and went over the survey results and data obtained.		
2.2	Team members questioned about the data sample and the survey participants. AD mentioned he worked along with TR on a campus climate survey, which has more information about student enrollment. AD noted they targeted certain groups which may make some of this data not represent the full student body.		
2.3	SB asked the OBA team how does the survey data influence design? JB explained that the survey provides trending data. SH noted we need to separate the survey data obtained from staff and students into two separate surveys.		
2.4	JC Noted that some students get snacks at the Food Pantry. Also, that we may need to increase its capacity		



2.5	JBB mentioned that there is a lack of collaborative spaces, as well as a	
	lack of clear wayfinding and circulation patterns. In addition the	
	campus needs more outdoor environment for collaborative spaces.	
2.6	TR noted that there are not a lot of spaces to spend time on campus, so students just go outside.	
2.7	JBB noted that the college performed their own survey. OBA to request	
	a copy of the results of this survey.	
3.0	Campus Evaluation	
3.1	SH led discussion on this workshop session	
3.2	MO loved the traffic calming strategies, but was concerned that traffic	
	calming on Lawson St. would displace traffic onto Cooper St. OBA	
	members noted that because of the campus layout and topography	
	this was unlikely to happen.	
3.3	JBB stated the top three priorities in regards to traffic calming and	
	overall streetscape on Lawson St. 1) Bury the utility lines. 2) Planted	
3.4	Median. 3) Street Parking JS mentioned that the campus needs to improve the overall landscape	
3.4	and planting. Also noted that some of the trees are decaying/in bad	
	condition.	
3.5	MF described the space in between buildings 1 and 2 as a place that	
	could provide the "best bang for the buck." He noted that if the OBA	
	team could use strategies to reduce heat, more people will use it more	
	and it would become a great place to spend time. It was noted that a	
	lot of people do not know where this space is, including some of the	
	meeting members. JBB indicated that the space would be a great	
	"test" space for collaboration areas but should be designed in a way	
	that does not distract the classrooms adjacent to it. Additionally, the	
	space could use movable chairs and take advantage of having one	
	access point for safety and security purposes. JA noted that the space	
	could use a water feature. It was noted that there is some stormwater	
	drainage underneath the space, but options like a raingarden could work.	
3.6	MF indicated that the utility lines on the pathways along building 8 and	
	10 could be removed, since they do not serve a purpose anymore.	
3.7	The team discussed the potential of the open space behind building 9.	
	MO mentioned it used to be occupied by staff on a frequent basis	
	before COVID, but not anymore. TR asked if a renovation could be	
	made to the building to facilitate student access and increase space occupation.	
3.8	JBB noted that one of the priorities for the campus should be to activate	
	the spaces that are already there and to improve connectivity.	
	Summarized the following deficiencies and opportunities:	



	 Not enough collaboration space Lack of clear routes and wayfinding Increased opportunity for outdoor academic spaces coming out of the pandemic 	
4.0	Concept Review	
4.1	AK+J noted that there is a lack of a turnaround point on campus and that a lot of students get dropped off at the street, either by carpooling or by the school buses. They both think the drop-off area is a good idea.	
4.2	There was very positive feedback on the design option that brings the buildings together and pushes the parking to the perimeter zone of the campus.	
4.3	The DTCC members had a few questions about ADA parking, parking entry, emergency building access, and service areas. The OBA team indicated that those items need to be studied further as we continue to develop the concepts.	
4.4	JBB mentioned that there has been active communication with the owner of the land West of the campus. If this land acquisition moves forward, it will enhance planning opportunities for OBA team	
4.5	AK asked the OBA team if the travel lane width could be reduced from 15' to 14' and expand the planted median on Lawson St. streetscape. JS responded that those adjustments may be possible, but more study may be needed.	
4.6	OBA asked the team members if they consider the 20 yr plan is "too far". JBB responded that planning out beyond 10 years in advance still makes sense	
4.7	Overall, the team members agreed to move forward with the design option that brings the buildings together and has a defined campus core.	
4.8	MO indicated that by demolishing building 8, childcare and healthcare needed to be relocated.	
4.9	JBB indicated that even though we need to meet a parking count by code, the campus should not have unnecessary impervious area taken by parking.	
5.0	Next Steps	
5.1	SH send a quote to AK to evaluate if there is a stream on the Northwest portion of campus.	
5.2	Review Full campus evaluation and ADA	
5.3	Develop concepts and landscape master plan	
5.4	Review Draft Comprehensive Plan Report	



This represents the architect's understanding of the principal matters discussed as related to action items for the architect and their consultants. If there are any additions or corrections, please notify the architect immediately. If not, these minutes will stand as a record of the items discussed.



Agenda/Meeting Minutes

Project: DTCC Masterplan Project Number: 2021067

Purpose: Design Workshop Meeting Location: ERC Boardroom

Meeting Date: 3/29/2022 – 9:00am (EST)

Prepared By: Steven Harris

Attendees in Bold:							
Name	Company	Initials	Name	Company	Initials		
Steven Harris	OBA	SH	Susan Bowens	DTCC	SB		
Jay Smith	OBA	JS	Kara Battle	DTCC	KB		
Kevin Montgomery	OBA	KM	Melissa Oakley Ockert	DTCC	MO		
John Atkins	OBA	JA	Tina Ruff	DTCC	TR		
Nix Salcedo	OBA	NS	Abraham Dones	DTCC	AD		
Toni Brown	DTCC	TB	Erica Taylor	DTCC	ET		
Andy Kleitsch	DTCC	AK	Jim DePalma	DTCC	JD		
JB Buxton	DTCC	JB					
Marshall Fuller	DTCC	MF					

ITEMS	NOTES/ ISSUES/ ACTION	RESP	DUE DATE
1.0	Project Updates and Introductions		
2.0	2015 Masterplan Review		
2.1	Enrollment is lower than ever. Pandemic has decreased enrollment and shifted more learning to a virtual platform. It is not clear to anyone if the shift will ever go back to pre-pandemic levels. Right now, it is about 50% in-person and 50% virtual. It is expected that enrollment will increase, but not at the rate seen in 2008-2015. Beyond building use demand, this affects parking.		
2.2	The large meeting space noted in the 2015 Masterplan, is lower in the list of priorities for the masterplan update.		
2.3	A new health technology building is still the top priority and is targeted for the next county bond referendum.		
2.4	It was noted that the renovating of existing buildings is still a top priority. Buildings noted for renovating in 2015 are in worse shape now. It was		



	noted that renovations to Collins and Tech Building are targets to include in the next CIP (Capital Improvements Plan).	
2.5	It was noted that some skilled trades programs need expansion/new space. The target is to relocate the programs from the Bacon Bldg (Bldg 20) closer to the Newton/Ingram/Tech Center cluster of campus. This may be able to occur in the recently acquired property/bldg that was at the old metalworks facility.	
2.6	Discussion about the new Hub for the campus. The question posed was should it be more centralized as new buildings are being built between Lawson and Cooper St. There is	
2.7	Discussion about Parking Decks. The cost per parking space is approximately 10x to surface parking space. Tabletop decks are around 5x the cost. The general consensus was to try to avoid building parking structures and concentrate on funding program buildings.	
2.8	It was noted that the organization of the college has changed since 2015. Before it was organized by buildings, now there are 7 meta-majors that organize the college.	
2.9	It was noted that more transitional spaces are needed to increase flexibility for the campus.	
2.10	There was noted concerns about Accessibility around the campus.	
2.11	It was noted that with the planning of the campus we need to remember that there are two different types of students that the college has to accommodate. There is a younger student that is comfortable with a hybrid learning approach and there are some adult students that learn better in a traditional in-person setting.	
2.12	Discussion about Café/Coffee shops needed distributed around the campus.	
3.0	Site Analysis	
3.1	JB – For the Masterplan, lets target 2 spaces per 1000 sqft of new building for the planning due to the pandemic shift to less cars on campus.	
3.2	Health Building – should be mostly in-person enrolment, will need to make sure parking is convenient and safe to travel at night. Need to consider scheduling and the impact to traffic on Lawson St. It was suggested that we may want to direct parking lot traffic to Cooper St to alleviate the possible jam when classes exchange.	
3.3	Discussion about Traffic Calming on Lawson Street. Passive street design measures could be employed including planted medians, bike lanes, street parking, street crossings, etc.	
3.4	Discussion about a better signature feature to the campus that makes it clear that you have arrived on the campus along Lawson Street. The current sign alone is not satisfactory.	



3.5	It was noted that the Bridge that ties North and Middle sides of campus from the bisecting Lawson Street is still a priority for the 2022 Masterplan update.	
4.0	Program Analysis	
4.1	JB – The program needs are well defined right now. In lieu of the survey/questionnaire to the staff about program needs, lets focus on the amenities and support spaces. Determine how to send survey out to students and staff.	
4.2	JB – There is still a desire to do community work sessions with regional employers. DTCC is working on coordinating this with Durham Chamber of Commerce.	
5.0	Next Steps	
5.1	Next Workshop schedule for 4/26. 90 mins meeting. SH to send out calendar reservations for 9am and 11am and see what has better attendance.	
5.2	JS and SH will perform a campus assessment report as part of the Landscape Masterplan. MF requested to be part of the assessment walkthrough. Need to review campus at night to determine the experience and improvements.	
5.3	As part of the campus assessment, wayfinding analysis will be included.	
5.4	ADA study will be performed. This will be inside the buildings and the exterior campus spaces.	

This represents the architect's understanding of the principal matters discussed as related to action items for the architect and their consultants. If there are any additions or corrections, please notify the architect immediately. If not, these minutes will stand as a record of the items discussed.

DTCC Masterplan



Agenda/Meeting Minutes

Project: DTCC Masterplan Project Number: 2021067

Purpose: Design Workshop Meeting Location: Lyons Boardroom

Meeting Date: 6/09/2022 – 9:30am-11:00am (EST)

Prepared By: Steven Harris

Attendees in Bold:							
Name	Company	Initials	Name	Company	Initials		
Steven Harris	OBA	SBH	Susan Bowens	DTCC	SB		
Jay Smith	OBA	JS	Marshall Fuller	DTCC	MF		
Kevin Montgomery	OBA	KM	Melissa Oakley Ockert	DTCC	MO		
John Atkins	OBA	JA	Andy Kleitsch	DTCC	AK		
Nixzali Salcedo	OBA	NS	James DePalma	DTCC	JD		
Carolina Sarmiento	OBA	CS	JB Buxton	DTCC	JB		
Abraham Dones	DTCC	AD	Kara Battle	DTCC	KB		
Tina Ruff	DTCC	TR					

ITEMS	NOTES/ ISSUES/ ACTION	RESP	DUE DATE
1.0	SBH Project Updates and Introductions		
2.0	Concepts and Opportunities		
2.1	Clarification that Building 8 will be required for demolition in the proposed concept to create Building 13.		
2.2	AD questioned if the architecture of building 14 would be on a slope or if it would be lowered. OBA team explained the building entry can match the grade so it will be accessible from building 11 and the future parking lot south of future building 12		
2.3	DTCC members wanted more details about West parking – if the land would be acquired how would it be used?		
2.4	AD asked the OBA team: How will wayfinding be updated as campus is updating? OBA Team suggested the use of QR codes, as these are easy to use and update as campus develops.		
2.5	TR asked the OBA team asked about the possibility of making the connecting bridge an indoor /outdoor student space so it could be		



	used year round and incorporate charging /copposition spaces using	
	used year-round and incorporate charging/connection spaces using	
2.4	amenity programing.	
2.6	JB noted that sustainability is a "non-negotiable" feature for the	
0.7	development of the campus.	
2.7	SB questioned about the timing of construction between building 12	
	and 14 and combining the renovation of Lawson St all at once. SBH	
	suggested that the OBA team could work along with DTCC to plan	
0.0	ahead and make a strategy that works best for the college.	
2.8	AD asked the OBA team if the vehicular plaza included navigation	
0.0	possibilities for public transportation. OBA Team: Yes.	
2.9	Building 13 – Life Science building – "building 10 not seen in render?".	
	SBH explained that the view of the perspective is the reason for this but	
	another rendering shows it well.	
2.10	JS explained the street parking option on Lawson St. and DTCC	
	members questioned if street parking would look like Cooper St. JS	
	explained that with some design that includes some framing of the spots	
	the look can be much improved over Copper St.	
2.11	DTCC members questioned if Lawson St would have the capability to let	
	trucks and emergency vehicles go through? OBA team noted that the	
	streetscape lane and sidewalk dimensions should have no issues	
2.12	MF questioned how the renovation of Lawson St get approved? They	
	have had unsuccessful attempts trying get approval for smaller projects.	
	OBA team explained that because of the magnitude of the project,	
	there should be less obstacles trying to obtain approval from the	
	city/jurisdiction. However, it will still be a process that will need to start	
	early and may need some politicking.	
2.13	Building 9 – Information Technology building – OBA team discussed a	
	potential renovation on the façade of the building by the conference	
	room. MO: mentioned a couple of issues regarding the outdoor space:	
	 Conference room is next to staff lounge 	
	Students can see into the conference room, and it is	
	distracting Removing existing door on windows that also causes	
	distraction	
	OBA team will note these issues in the campus report.	
2.14	North Courtyard - creating private spaces that contrast the bigger	
	open spaces.	
2.15	Team Discussed if Building 13 had enough SF after relocation of HAVC	
2.10	and welding building to include other programs. The conclusion is that it	
	would have more because the 20K GSF is more than Building 20 where	
	these programs are currently located.	
	[] 3,	



2.16	AD suggested providing indoor/ outdoor childcare and safety for children – currently in building 8, which means they need to relocate once building is demolished.	
	JBB noted that Building 20 may be the appropriate place after its vacated by welding and HVAC.	
2.17	AK explained that the campus needs more storage capacity, and even more after demolishing the facility on Cooper St.	
	SBH asked if this requirement needs to be directly addressed in the campus plan with physical space. The answer was YES.	
	MF added that they need to more efficient with storage – not keeping furniture and stuff that is not reusable.	
	ACTION - MF to define GSF needed for storage	
2.18	MF asked the OBA team to talk more about the landscape with the DTCC team. OBA team noted that there is more information in regard to the landscape noted in the report and was omitted for the presentation due to time restrictions.	
3.0	Cost Summary	
3.1	Explained project cost summary and the estimate and escalation of budget per year based on construction cost.	
3.2	AK noted that the college obtained a \$35mi bond for the Life Science building and a \$75mi bond for the Health Science building.	
3.3	AK asked the OBA team how long will it take from the time they assign an Architect to the time they can bid the project? SBH noted that that process should take about 12 months	
4.0	Next Steps	
4.1	Explained the completion of drafted report and the completion of long-range plan.	
4.2	JB asked for additional meeting on June 21st, 2022 to engage board members	

This represents the architect's understanding of the principal matters discussed as related to action items for the architect and their consultants. If there are any additions or corrections, please notify the architect immediately. If not, these minutes will stand as a record of the items discussed.