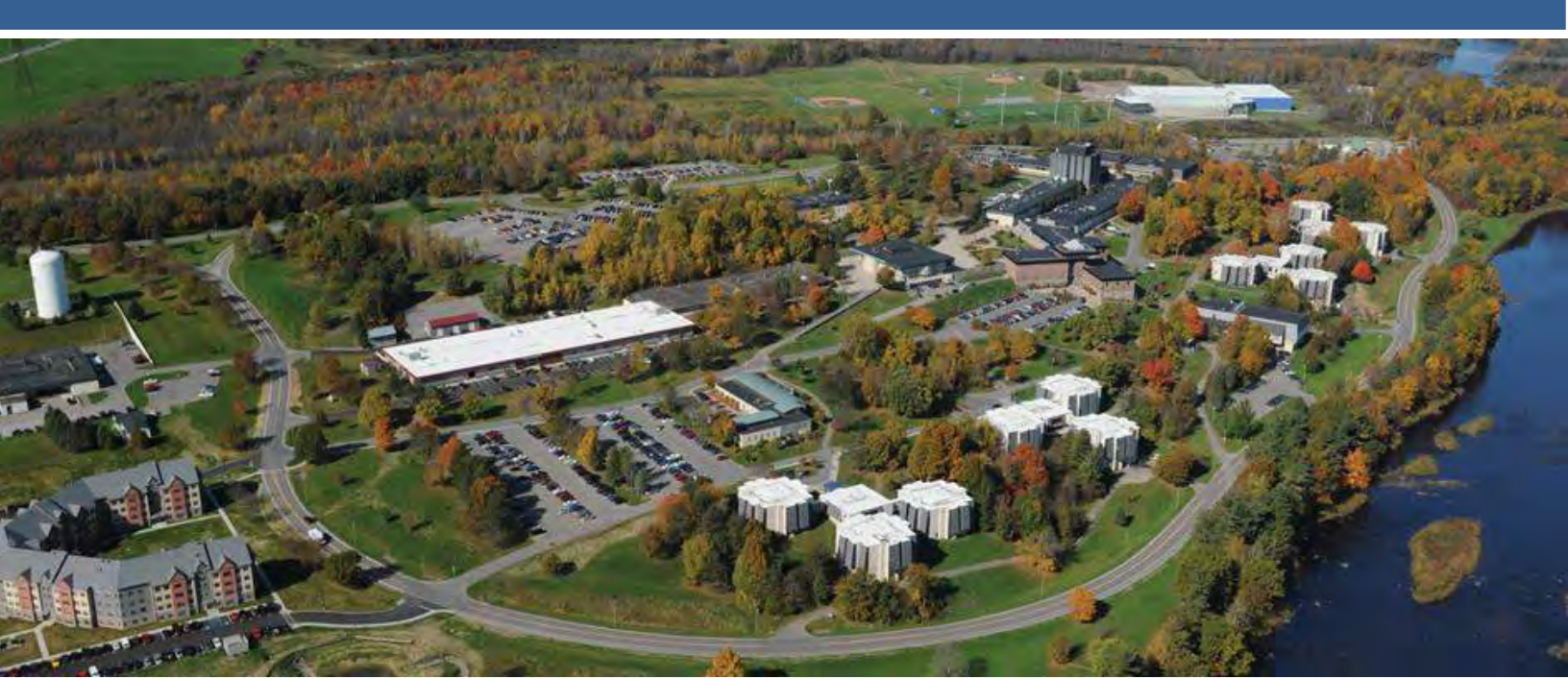


# PROGRAM REPORT

## SITE IMPROVEMENTS - VARIOUS LOCATIONS

State University of New York College of Technology at Canton  
34 Cornell Drive, Canton, NY 13617  
MJ Project Number 1425.03  
December 17, 2021



Prepared For:



Prepared By:



Engineering and  
Land Surveying, P.C.

1533 Crescent Road, Clifton Park, NY 12065

# TABLE OF CONTENTS

---

<b>1.0</b>	<b>EXECUTIVE SUMMARY.....</b>	<b>1</b>
1.1	Background .....	1
1.2	Study Areas .....	1
1.3	Scope and Estimate.....	2
<b>2.0</b>	<b>PROGRAM DEVELOPMENT .....</b>	<b>3</b>
2.1	Chaney Dining Center & Parking Lot.....	4
2.2	Rushton/Heritage Hall .....	5
2.3	Parking Lot 4 .....	6
<b>3.0</b>	<b>FIELD STUDIES .....</b>	<b>7</b>
3.1	Survey and Mapping .....	7
3.2	Field Verification .....	7
3.3	Additional Field Studies .....	9
<b>4.0</b>	<b>SITE WORK DESCRIPTIONS.....</b>	<b>10</b>
4.1	Program Description .....	10
4.2	Site Improvements.....	10
4.3	Rehabilitation of Site Utilities .....	12
4.4	Stormwater Management .....	12
<b>5.0</b>	<b>PROJECT ESTIMATE .....</b>	<b>12</b>
<b>6.0</b>	<b>CODES &amp; REGULATORY REQUIREMENTS .....</b>	<b>13</b>
6.1	Code Compliance .....	13
6.2	State Environmental Quality Review .....	14
6.3	SPDES General Permit GP-0-20-001.....	14

## **APPENDICES**

---

Appendix A: Study Area Draft Concepts

Appendix B: Program Cost Estimate

Appendix C: Meeting Minutes

# 1.0 EXECUTIVE SUMMARY

---

## 1.1 BACKGROUND

In 1906, SUNY Canton, located in the Village of Canton, St. Lawrence County, was founded as the School of Agriculture and was the first two-year college authorized by the State of New York. Some years later in 1941, the school was renamed the New York State Agriculture and Technical Institute and became a State University of New York (SUNY) member in 1948. The College underwent yet another name change in 1965 becoming State University of New York Agriculture and Technical College at Canton before settling on its current name, State University of New York College of Technology at Canton (College, campus) in 1987. The campus is situated on approximately 555 acres, with much of the campus being constructed in the 1960s. The campus is generally bounded by the Grasse River to the east and north and Route 68 to the west and south.

## 1.2 STUDY AREAS

The College has been working diligently in recent years to update the campus and make it a cohesive, functional, appealing, and accessible space for students, faculty, staff, and visitors. The “Facilities Master Plan”, completed in September 2011 by Architectural Resources, identified recommended future improvements to “energize the core” of the campus. Additionally, the extensive “Campus-Wide Site Utility and Infrastructure Study”, completed by CT Male Associates in completed in October 2013, highlighted the need for hardscape and landscape improvements. Specific areas of interest noted in these efforts include site work adjacent to Chaney Dining Center to provide an outdoor link to Chaney Hall and the Campus Center, and the need for expanded parking at the Convocation, Athletic and Recreation Center (CARC). The campus has further identified the need for improved walkways between Rushton and Heritage Halls and Payton Hall. These study areas, which are the focus of this program report, are summarized as follows:

- Chaney Dining Center Site and Parking Lot Improvements
- Rushton/Heritage Hall Walkways
- Parking Lot 4 Reconstruction (CARC Parking)

The pedestrian connections that surround Chaney Dining Center and those that connect Rushton and Heritage Halls to Payson Hall no longer function adequately for students, faculty, staff, visitors, or maintenance personnel. These areas are desired to be reconfigured to better serve pedestrians and provide safer access during inclement weather. Additionally, though Americans with Disabilities Act (ADA) compliant access to Chaney Dining Center has been improved in recent years, further reconstruction of the parking lot is required to provide accessibility that is compliant with ADA regulations.

The CARC, located on at the northwest corner of the campus, is a hub for student and public events. This area and the associated parking lots that service it currently lack an official entrance that provides a sense of presence and welcoming experience. Furthermore, there is a utility easement that currently bisects the campus between the CARC and Parking Lot 4. The terms of this easement are coming to an end, and it is anticipated the power poles will be removed in the coming months. This will free up previously unavailable land to expand and improve Parking Lot 4 and allow it to better serve the CARC and other campus needs.

To effectively develop this work, the College has retained the services of MJ Engineering and Land Surveying, P.C. (MJ), to work with the College’s facilities personnel and executive staff to develop a program for the rehabilitation of these areas specially addressing vehicular and pedestrian inadequacies.

### 1.3 SCOPE AND ESTIMATE

The College's primary goals are to improve pedestrian and vehicular access and safety for students, faculty, staff, and visitors during their time on the campus. This proposed program includes providing clear and direct pedestrian routes between points of interest and destinations, providing necessary exterior upgrades to comply with current ADA regulations, and reconstruction of Parking Lot 4 to provide needed expanded parking capacity. In locations where landscaping conflicts with new site features or is beyond its useful life, it will be removed. New landscaping at each project area will include the introduction of species that are native to the region and low maintenance. These goals will be accomplished while honoring the design vernacular recently instituted across the campus, including the use of stone veneer on seat, and retaining walls and Adirondack-style wood and stone structures.

MJ met on multiple occasions with campus personnel and completed field assessments to develop two distinct concepts for each of the study areas. From these concepts, a preferred plan was developed and approved by the College on September 28, 2021 to be further detailed in this program study.

Upon review of field observations and information from the College, the following scope has been identified:

#### 1.3.1 Chaney Dining Center Site and Parking Lot Improvements

1. Removal of specific asphalt walkways and plantings
2. Construction of covered walkways and stairs
3. Installation of new hardscaped areas adjacent to the main entrance of Chaney Dining Center
4. Improved ADA access and aesthetic enhancements to lower Chaney Dining Center entrance and parking area
5. Improvements to pedestrian circulation and safety
6. Site landscaping and lighting
7. Installation of stormwater management areas

The construction cost estimate for the work associated with Chaney Dining Center as described above is approximately **\$2,320,000** (2021 dollars).

#### 1.3.2 Rushton/Heritage Hall Walkways

1. Removal of surface materials including asphalt walkways and specific landscaping within the work limits
2. Reconfiguration of walkways including construction of covered stairs
3. Site landscaping and lighting
4. Land grading and site layout to provide space for future programming area
5. Construction of a new sidewalk adjacent to Payson Hall to provide improved pedestrian circulation and safety

The construction cost estimate for the work associated with Rushton and Heritage Halls as described above is approximately **\$1,060,000** (2021 dollars). Alternate scope has also been identified to provide a gathering area between the walkways. This alternate or future scope is estimated at an additional \$117,000 (2021 dollars).

#### 1.3.3 Parking Lot 4 Reconstruction (CARC Parking)

1. Removal of all surface materials, including asphalt, concrete, and landscaping within the work limits
2. Reconstruction and reconfiguration of Parking Lot 4

3. Construction of a formal bus drop-off zone for visiting schools and athletes
4. Construction of an entrance plaza to the synthetic turf field area
5. Installation of sidewalks around the parking lot to provide pedestrian connections to the CARC, synthetic fields, and academic buildings
6. Site landscaping and lighting
7. Installation and stormwater management areas

The construction cost estimate for the work associated with Parking Lot 4 described above is approximately **\$4,290,000** (2021 dollars).

## 2.0 PROGRAM DEVELOPMENT

---

Generally, much of the exterior areas of the campus haven't seen updates since their original installation in the 1960s until recent years. Upon completion of extensive campus-wide utility and infrastructure studies in 2013 and adopted updates to the Facilities Master Plan in 2020, the College has focused significant efforts to improve exterior portions of the campus including design and construction efforts at French Hall Plaza, Parking Lot 1, Miller Drive, and Park Lot 12. The intent of this program study is to review additional exterior areas on the Campus that require updates and to make recommendations for improvements with a focus on enhancing vehicular, pedestrian and accessibility circulation, as well as aesthetics and the user experience. This program study focuses on three primary areas, herein defined as (see Figure 2.1):

- Chaney Dining Center Site and Parking Lot Improvements
- Rushton/Heritage Hall Walkways
- Parking Lot 4 Reconstruction (CARC Parking)

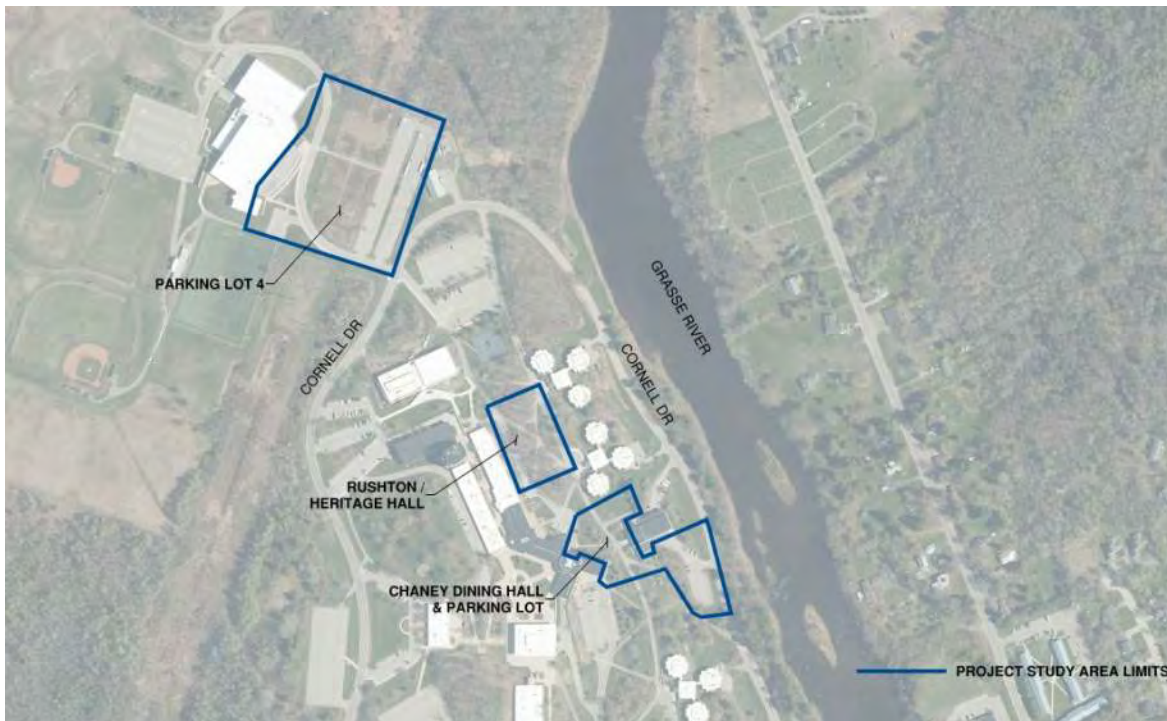


Figure 2.1: Program Study Areas

Each of the study areas has the general goal of improving pedestrian access and safety, with additional vehicular access improvements at Chaney Dining Center and the CARC. MJ Engineering met with college personnel on-site on three occasions to discuss the program objectives, progress, and desired changes for the project. The first meeting was conducted on August 4, 2021 to outline the projects goals, which are summarized in this section. A second meeting on September 15, 2021 further refined these goals and establish the preferred option for each area. A third meeting was conducted on September 28, 2021 to review the preferred concepts with the Vice President of Administration.

## 2.1 CHANEY DINING CENTER SITE AND PARKING LOT IMPROVEMENTS

Chaney Dining Center is located on the eastern portion of the campus between Miller Campus Center and the Grasse River. The buildings and plaza were completed in the 1960s as part of the campus' original construction. Chaney is home to the main dining hall on campus. Serving meals for both resident and commuter students, Chaney Dining Center is a central part of the campus social life.

The current asphalt walkways connecting Miller Campus Center and Chaney Dining Center run at angles across the steeply sloped lawn, eventually converging across from the entrance to Chaney. Due to the steep slopes, the walkways frequently see icy and slippery conditions in the winter which can be hazardous for pedestrians.

The main entrance to Chaney Dining Center is on its west face. A wide, curbed concrete walkway flanked by large amounts of landscaping covering most of the building face led to multiple sets of doors into the building. A second entrance to the building can be found on the north side of the building. Until recent interior ADA improvements, this entrance was the ADA access point for the building. On the lower, south face of the building is the newly constructed ADA entrance as well as various service entrances. The entrances are served by a small parking lot of approximately forty (40) parking spaces, two (2) of which are currently identified as ADA spaces.

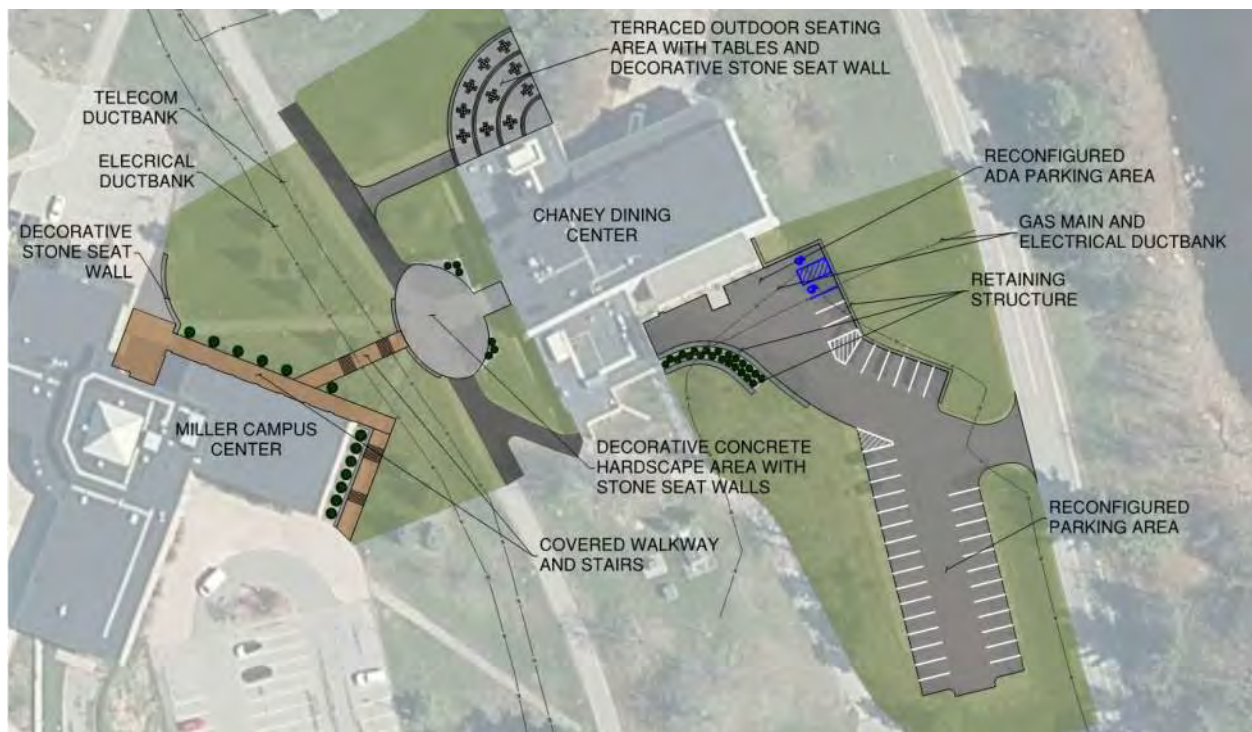


Figure 2.2: Chaney Dining Hall Site and Parking Lot Program Area

The primary goals identified for Chaney Dining Center & Parking Lot by the College include:

- Removal of specific asphalt walkways and plantings
- Construction of covered walkways and stairs
- Installation of new hardscaped areas adjacent to the main entrance of Chaney Dining Center
- Improved ADA access and aesthetic enhancements to lower Chaney Dining Center entrance and parking area
- Improvements to pedestrian circulation and safety
- Site landscaping and lighting
- Installation of stormwater management areas

Understanding these goals, two distinct concepts for the plaza were prepared for consideration, illustrating the varying options to provide vehicular, pedestrian and landscape improvements. This exercise was an important first step to visualize the potential for the plaza area between Chaney Dining Center and Miller Campus Center, as well as identifying the priorities for the space. The team met on September 15, 2021 to review the options with campus personnel, gathering important feedback. A third concept was then prepared and presented to the College's Vice President of Administration on September 28, 2021. The preferred concept improves ADA accessibility, provides reconfigured and mostly covered pedestrian access, integrates the stone that is a consistent with the recent landscape improvements across the campus, and provides places for students, faculty, and staff to gather. The final concept is presented in Appendix A.

## 2.2 RUSHTON/HERITAGE HALL WALKWAYS

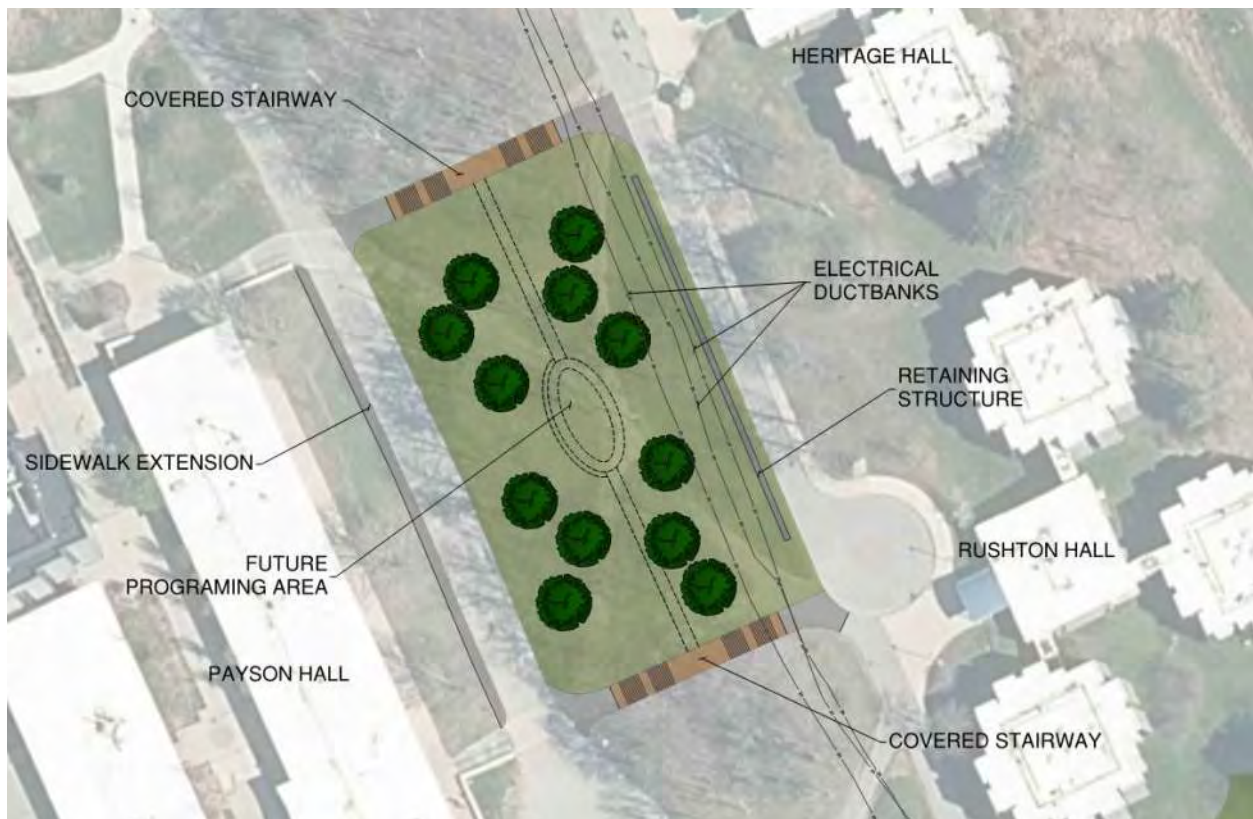


Figure 2.3: Rushton/Heritage Hall Program Area

Heritage and Rushton Halls are resident halls located on the northeastern portion of the Campus. Situated on the sloping grades that rise from the west banks of the Grasse River, this portion of the Campus has



steep slopes along pedestrian routes. Multiple asphalt paths crisscross the green space between Payson, Rushton, and Heritage Halls. Additionally, this area has a significant number of mature trees that are nearing the end of their anticipated lifespan.

Goals identified for Rushton/Heritage Hall include:

- Removal of surface materials including asphalt walkways and specific landscaping within the work limits
- Reconfiguration of walkways including construction of covered and stairs
- Site landscaping and lighting
- Land grading and site layout to provide space for future programming area
- Construction of a new sidewalk adjacent to Payson Hall to provide improved pedestrian circulation and safety

### 2.3 PARKING LOT 4 RECONSTRUCTION (CARC PARKING)



Figure 2.3: Parking Lot 4 Program Area

Park Lot 4 is located on the northern portion of the College between the CARC and Energy Center. Servicing both the Athletic Center and academic portions of the Campus, the lot has approximately 210 spaces. There is a second lot, Lot 25, located adjacent to the CARC with approximately sixteen (16) additional spaces, two (2) of which area ADA. These lots are also utilized during athletic and other events hosted by the College and the local community. Large events utilize Park Lot 23 in the rear of the CARC for overflow parking. However, this poses a challenge for events hosted at the synthetic fields that require tickets or payment for entrance as there is no center location in which patrons enter. Additionally, it creates more traffic in front of the CARC main entrance where patrons using Parking Lot 4 would need to cross the road.

Between the CARC and Parking Lot 4 there is a large amount of green space currently used as a utility easement for large electric poles and overhead lines. This green space will soon be available for the Campus' use as the utility structures and lines are anticipated to be removed in the coming months at which time the easement will end.

The primary objectives for improvements to Parking Lot 4 include:

- Removal of all surface materials, including asphalt, concrete, and landscaping within the work limits
- Reconstruction and reconfiguration of the parking lot
- Construction of a formal bus drop-off zone for visiting schools and athletes
- Construction of an entrance plaza to the synthetic turf field areas
- Installation of sidewalks around the parking lot to provide pedestrian connections to the CARC, synthetic fields, and academic buildings
- Site landscaping and lighting
- Installation of landscaping and stormwater management areas

## 3.0 FIELD STUDIES

---

### 3.1 SURVEY AND MAPPING

This program study relied primarily upon aerial imagery and field observations. An updated survey was beyond the scope of this study and therefore would need to be completed during design phase of the proposed improvements.

### 3.2 FIELD VERIFICATION

Field assessments were completed on August 4, 2021 and September 15, 2021 to verify the program requirements, review field conditions and identify any evident site constraints. The following images provide a representative illustration of the existing conditions, which generally include deteriorating pavement, potentially non-compliant ADA accessibility features and pedestrian resources.



*Figure 3.1: Miller Campus Center Walkways and Landscaping*



*Figure 3.2: Sidewalk Corridor Between Miller Campus Center and Chaney Dining Center*



*Figure 3.3: Entrance to Chaney Dining Center*



*Figure 3.4: Retaining Walls and Landscaping at Chaney Diner Center*



*Figure 3.5: Northern Access to Chaney Dining Center*



*Figure 3.6: Lower Access to Chaney Dining Center*



*Figure 3.7: Walkways Connections between Payson, Rushton, and Heritage Halls*



*Figure 3.8: Stairs and Walkways Existing Payson Hall towards Rushton Hall*



Figure 3.9: Western Half of Parking Lot 4



Figure 3.10: Roadway from Lot 4 to Athletic Center



Figure 3.11: Parking Lot Adjacent to Athletic Center



Figure 3.12: Roadway Crossing at Athletic Center Main Entrance

### 3.3 ADDITIONAL FIELD STUDIES

#### 3.3.1 Survey

Prior to detailed design of the proposed improvements, a site specific topographic/planimetric survey should be completed. An accurate topographic survey is critical to the success of the project, specifically regarding ADA accessibility. It is recommended that Quality Level B (QL-B) utility designations be performed and included in the survey mapping prepared. This effort will identify subsurface utilities utilizing non-destructive methods.

#### 3.3.2 Pavement Cores

It is recommended that pavement cores be collected in Parking Lot 4 to validate the existing pavement profile. This information will quantify the extent of pavement and/or subbase removal that may be required for any full-depth pavement rehabilitation.

## 4.0 SITE WORK DESCRIPTIONS

---

### 4.1 PROGRAM DESCRIPTION

Upon review of field observations and information from the College, the program scope is summarized as follows:

#### 4.1.1 Chaney Dining Center Site and Parking Lot Improvements

1. Removal of specific asphalt walkways and plantings
2. Construction of covered walkways and stairs
3. Installation of new hardscaped areas adjacent to the main entrance of Chaney Dining Center
4. Improved ADA access and aesthetic enhancements to lower Chaney Dining Center entrance and parking area
5. Improvements to pedestrian circulation and safety
6. Site landscaping and lighting
7. Installation of stormwater management areas

#### 4.1.2 Rushton/Heritage Hall Walkways

1. Removal of surface materials including asphalt walkways and specific landscaping within the work limits
2. Reconfiguration of walkways including construction of covered and stairs
3. Site landscaping and lighting
4. Land grading and site layout to provide space for future programming area
5. Construction of a new sidewalk adjacent to Payson Hall to provide improved pedestrian circulation and safety

#### 4.1.3 Parking Lot 4 Reconstruction (CARC Parking)

1. Removal of all surface materials, including asphalt, concrete, and landscaping within the work limits
2. Reconstruction and reconfiguration of the parking lot
3. Construction of a formal bus drop-off zone for visiting schools and athletes
4. Construction of an entrance plaza to the synthetic turf field area
5. Installation of sidewalks around the parking lot to provide pedestrian connections to the CARC, synthetic fields, and academic buildings
6. Site landscaping and lighting
7. Installation and stormwater management areas

### 4.2 SITE IMPROVEMENTS

#### 4.2.1 Land Use and Circulation

There are no planned changes to the current land use. Vehicular and pedestrian circulation will be modified within all project areas to improve efficiency and safety by utilizing covered walkways and stairs, reconfiguring walkways for more direct pedestrian connections, providing ADA compliant access points, increasing the number of parking spaces, and constructing appropriately placed roadway crossings.

#### 4.2.2 Grading

Grading work is anticipated at all three project areas for the installation of stairs, implementation of ADA accessible routes, creation of useable programming space, and to convey stormwater. Grading plans will be developed during the design phase for each project area.

#### 4.2.3 Parking

- Chaney Dining Center Parking Lot: Chaney Parking Lot currently contains approximately forty (40) parking spaces, some of which are difficult to navigate and do not meet current ADA accessibility requirements. The proposed project includes an increase in parking to forty-one (41) spaces, two (2) of which are proposed as ADA accessible. The installation of retaining walls allow the grading of the upper portion of the parking lot to be adjusted to ensure ADA compliance and provide aesthetic improvements within the area.
- Parking Lot 4: Parking will be completely reconfigured and expanded to provide nearly 50% more parking spaces and improved pedestrian and vehicular flow. Between Lots 4 and 25, there is currently approximately 225 parking spaces, of which only two (2) are ADA compliant. With the updated lot layout, there will be a total of 316 parking spaces, 10 of which are proposed to be ADA. A dedicated bus drop off area sized to accommodate 2 busses is also proposed.

With the removal of Parking Lot 25, an entry plaza will now be provided for the synthetic field area. Parking Lot 23 will no longer be utilized for overflow parking and instead be used by event staff and for bus parking and staging.

#### 4.2.4 Sidewalks

- Chaney Dining Center and Parking Lot: Within the plaza area between Chaney Dining and Miller Campus Centers, all new sidewalks are proposed linking together the campus's social hubs and providing a gathering space along the campus core.
- Rushton/Heritage Hall: The sidewalks connecting Rushton and Heritage Halls to Payson Hall will be completely reconfigured to provide direct connections utilizing covered stairs.
- Parking Lot 4: With the reconfiguration of Parking Lot 4, new walkways will be constructed to provide direct access to the CARC and the plaza area proposed at the synthetic field.
- All new sidewalks will be concrete at a minimum of 8' wide allowing for ease of maintenance.

#### 4.2.5 Accessibility

The sidewalks constructed throughout the work areas identified will meet ADA accessibility requirements to the maximum extent possible. Due to the steep slopes on Campus, it is infeasible for the walkways between the Miller Campus Center and Chaney Dining Hall and Between Payson, Rushton, and Heritage Halls to be ADA compliant. Due to these limitations, provisions have been made to ensure there are ADA parking spaces at each area with compliant entrances.

Curb ramps with tactile warning strips are provided at all intersections and will improve upon those already in place. All ramps will be installed in conformance with ADA requirements. ADA improvements are limited to the work area and do not address ADA deficiencies in building access.

To account for construction tolerances, it is recommended that the maximum slopes of walking surfaces are not utilized. As an example, the maximum running and cross slope of a walking surface is 2% and 5%, respectively. In design the maximum running and cross slopes used should be no more than 1.5% and 4.5%, respectively.

#### 4.2.6 Exterior Lighting

New decorative exterior lighting is proposed throughout each project area. Locations of the new light posts have not been identified in this program study; however, a lighting allowance has been provided in the program cost estimate.

### 4.3 REHABILITATION OF SITE UTILITIES

#### 4.3.1 Drainage System

Drainage system improvements recommended are limited Parking Lot 4. This work includes:

- Installation of HDPE pipe and catch basins to allow for proper drainage of the expanded parking lot. This proposed system will connect to a stormwater management area with any overflow connecting to existing campus-owned storm sewer infrastructure.

#### 4.3.2 Other Utilities

There are no significant modifications recommended to the site utilities, including water, sewer or electrical work. For the scope described in this report, modifications are limited to rim and cover adjustments to meet proposed final grades for all utility structures encountered.

### 4.4 STORMWATER MANAGEMENT

The proposed improvements within Parking Lot 4 require modifications to the drainage system to convey stormwater from the new driveways, parking areas and other impervious landscape features.

The area of land disturbance for each project varies. Chaney Dining Center Site and Parking Lot as well as Parking Lot 4 are estimated to be greater than 1 acres. As such, they will subject to the State Pollutant Discharge Elimination System (SPDES) General Permit GP 0-20-001. Based upon the scope of work, the projects will be considered a redevelopment project with an increase in impervious area and will have to meet water quality and quantity control requirements outlined in the NYSDEC Stormwater Design Manual. This is proposed to be achieved through the use of green infrastructure techniques such as bioretention systems. A bioretention system can achieve both stormwater management requirements while adding to the landscape aesthetic. The final location of the bioretention systems was not determined as part of this study and will need to be located during the final project design.

As part of the final design, a project specific Stormwater Pollution Prevention Plan (SWPPP) will be required that addresses the water quality and quantity control design elements as well as construction phases erosion and sediment control measures to be implemented.

## 5.0 PROJECT ESTIMATE

---

An order of magnitude estimate has been developed for this program study and is summarized below. The detailed estimates are provided in Appendix B. The total program estimates for each scope identified is as follows:

- Chaney Dining Center & Parking Lot: **\$2,320,000**
- Rushton/Heritage Hall: **\$1,060,000**
- Parking Lot 4: **\$4,290,000**

<b>Table 5.1</b>			
<b>Program Cost Estimate</b>			
<b>Description</b>	<b>Chaney Dining Center &amp; Parking Lot</b>	<b>Rushton/Heritage Hall Walkways</b>	<b>Parking Lot 4 Reconstruction</b>
Div. 2 - Existing Conditions & Demo	\$39,790	\$48,781	\$246,469
Div. 12 - Furnishings	\$22,500	\$0	\$6,000
Div. 26 - Electrical	\$350,000	\$100,000	\$400,000
Div. 31 - Earthwork	\$135,000	\$78,000	\$380,000
Div. 32 - Exterior Improvements	\$828,077	\$436,268	\$1,346,991
Div. 33 - Utilities	\$91,860	\$5,000	\$332,105
Subtotal	\$1,467,227	\$668,049	\$2,711,565
General Conditions (8%)	\$117,378	\$53,444	\$216,925
Overhead & Profit (10%)	\$158,461	\$72,149	\$292,849
Design Contingencies (15%)	\$261,460	\$119,046	\$483,201
Contingency Allowance (5%)	\$100,226	\$45,634	\$185,227
Bid Contingencies (5%)	\$105,238	\$47,916	\$194,488
Phasing (Assume not required)	\$0	\$0	\$0
Subtotal	\$2,209,990	\$1,006,239	\$4,084,256
Escalation (5.00%)	\$110,499	\$50,312	\$204,214
Total	\$2,320,489	\$1,056,550	\$4,288,469
<b>BUDGET</b>	<b>\$2,320,000</b>	<b>\$1,060,000</b>	<b>\$4,290,000</b>
Alternate or Future Work	N/A	\$116,822	N/A

## **6.0 CODES & REGULATORY REQUIREMENTS**

### **6.1 CODE COMPLIANCE**

The following code requirements are expected:

- 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design
- 2020 Building Code of New York State – Chapter 11 Accessibility
- NYS DEC Stormwater Management Design Manual
- SUCF Design Directives
- Campus Design Requirements/Standards



## **6.2 STATE ENVIRONMENTAL QUALITY REVIEW**

The projects (or actions) are currently expected to be classified as Unlisted SEQRA actions as each project scope exceeds the thresholds of a Type II defined in ECL Part 617.5. However, this initial classification should be validated as early in the design process as possible. For an Unlisted Action, Parts 1 through 3 of a short environmental assessment must be completed Under ECL Part 617. Coordinated reviews for Unlisted actions are optional.

In the event that any project scope exceeds the thresholds of an Unlisted action, the project would be classified as a Type I Action pursuant to ECL 617.4. For a Type I Action, Parts 1 through 3 of a full environmental assessment must be completed Under ECL Part 617. Coordinated reviews for Type I actions are required.

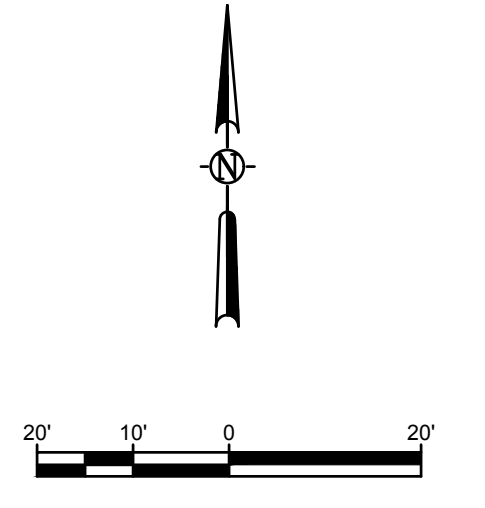
## **6.3 SPDES GENERAL PERMIT GP-0-20-001**

The project disturbance for Chaney Dining Center and Parking Lot 4 are expected to exceed one (1) acre, and therefore will be subject to SPDES General Permit GP-0-20-001 and will require a Stormwater Pollution Prevention Plan (SWPPP), which will be developed during detailed design. Based upon the described program, it is assumed that the projects will be considered a redevelopment project with an increase in impervious area, and therefore will require water quality treatment, runoff reduction and water quantity control.

The project disturbance for Rushton/Heritage Hall is expected to be less than one (1) acre, and therefore will not be subject to SPDES General Permit GP-0-20-001 this not requiring a Stormwater Pollution Prevention Plan (SWPPP).

# **Appendix A**

## **Study Area Draft Concepts**



REVIEWED BY:	DATE	PROJ. MANAGER:	JML
JML	10/12/2021	CHIEF DESIGNER:	APY
		DESIGNED BY:	TES
		DRAWN BY:	MEB
		CHECKED BY:	APY

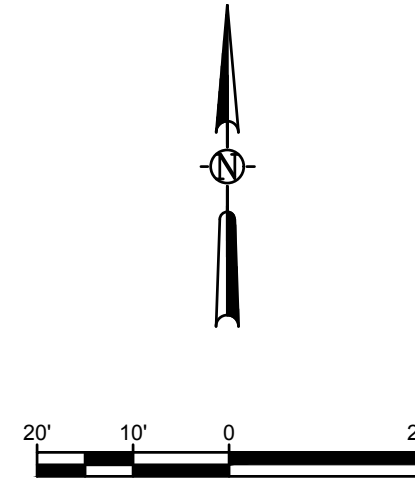
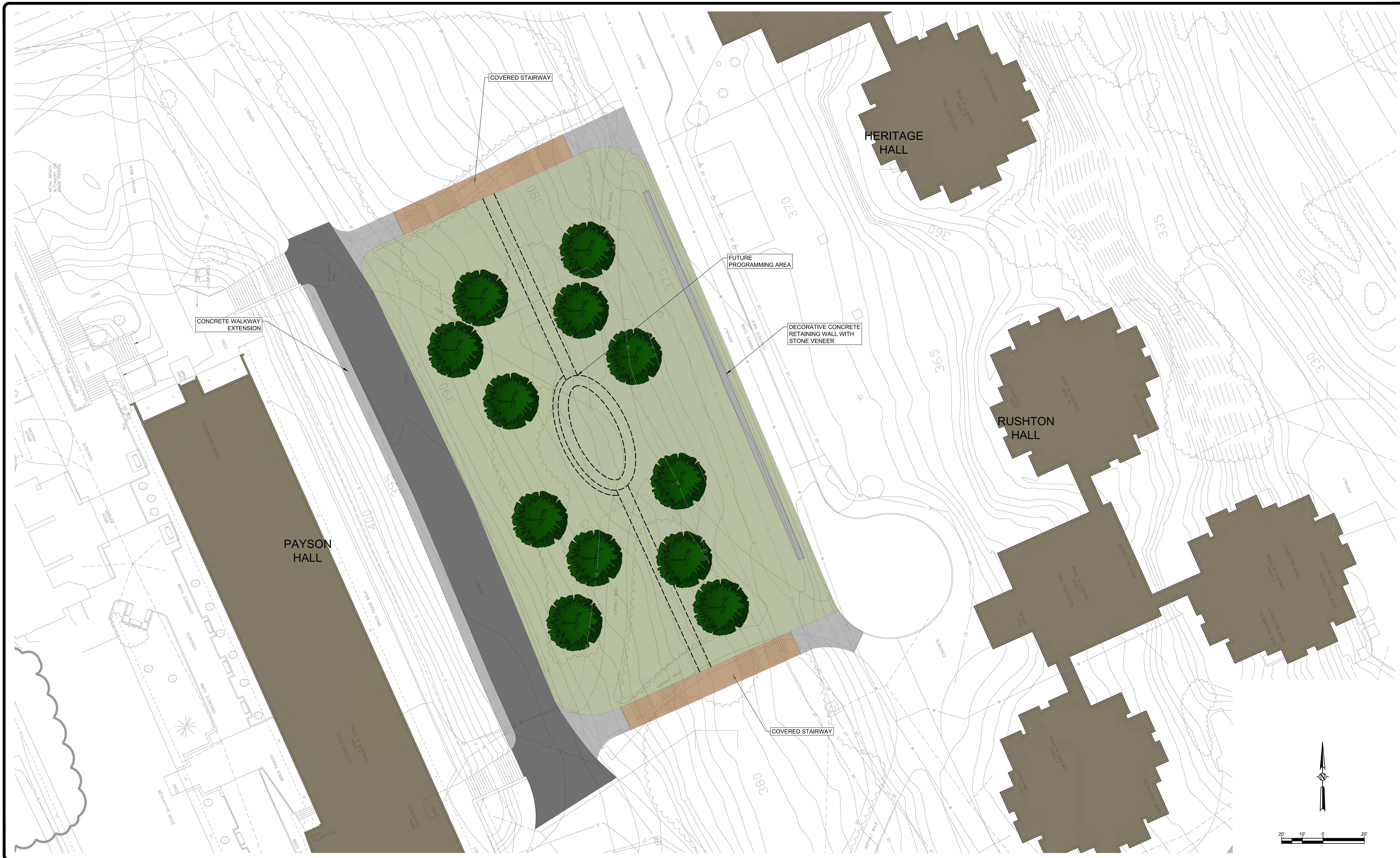

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CHANEY DINING CENTER CONCEPTUAL LAYOUT**  
SITE PROGRAM STUDIES  
CANTON NY

SCALE: 1" = 20'  
CONTRACT No.:  
MJ PROJ. No.: MJ1425.03  
DATE: OCTOBER 2021

**C-1.0**



REVIEWED BY:	DATE	PROJ. MANAGER:	JML
JML	10/12/2021	CHIEF DESIGNER:	APY
		DESIGNED BY:	TES
		DRAWN BY:	MEB
		CHECKED BY:	APY

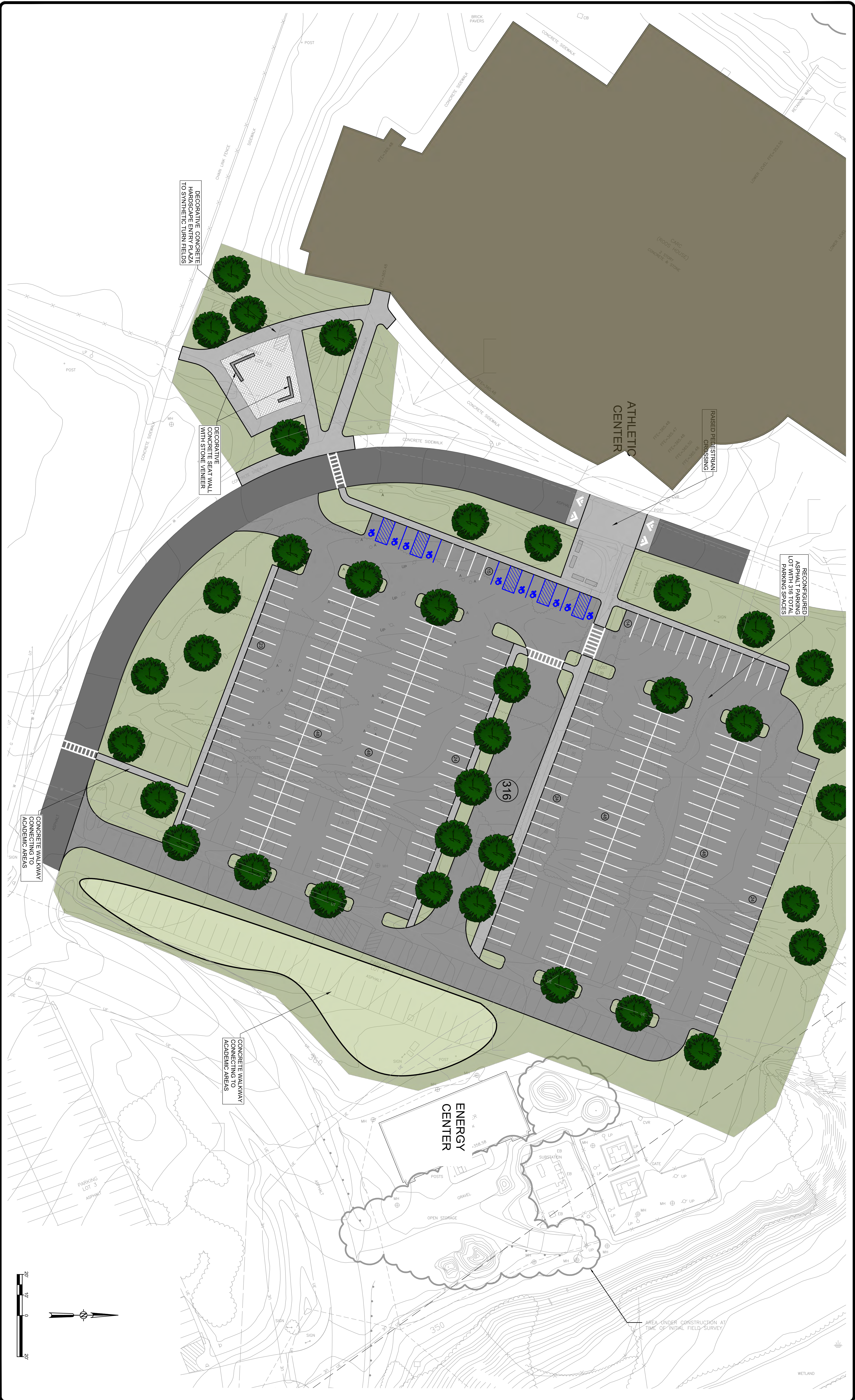


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**RUSHTON/HERITAGE HALL  
CONCEPTUAL LAYOUT**  
SITE PROGRAM STUDIES  
CANTON NY

SCALE: 1" = 20'  
CONTRACT No.:  
MJ PROJ. No.: MJ1425.03  
DATE: OCTOBER 2021  
**C-2.0**



# **Appendix B**

## **Project Estimates**

**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
CHANNEY DINING CENTER & PARKING IMPROVEMENTS  
34 CORNELL DRIVE, CANTON, NY 13617**

MJ Project Number:  
1425.03

## **Program Phase Estimate**

**MJ Engineering & Land Surveying, P.C.  
1533 Crescent Road  
Clifton Park, NY 12065**



**Engineering and  
Land Surveying, P.C.**

**December 17, 2021**

Project:  
 Client:  
 Project Phase:  
 Prepared By:  
 MJ PN:

**CHANAY DINING CENTER & PARKING IMPROVEMENTS**  
 STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
 Program Phase Estimate  
 MJ Engineering & Land Surveying, P.C.  
 1425.03

TECHNICAL ASSUMPTIONS

HAZARDOUS MATERIALS EXCLUDED

ESTIMATE IS BASED ON CONCEPT DRAWINGS DATED 10/12/2021

CONSTRUCTION PERIOD ASSUMED TO BE 2023, WITH ESTIMATE TO MID POINT

ESCALATION

Task	2021						2022												2023										
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov
Concept																													
Design																													
Bidding																													
Contract Execution																													
Construction																													
MidPoint																													

Escalation 20 months @ 0.25% per month

Escalation = 5.00%



**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
CHANAY DINING CENTER & PARKING IMPROVEMENTS**

**PROJECT ESTIMATE SUMMARY SHEET**

**Phase Report:** Program Phase Estimate  
**Prepared By:** MJ Engineering & Land Surveying, P.C.  
**MJ PN:** 1425.03  
**GROSS AREA (SF):** N/A  
**ESTIMATE \$/SF:** N/A /SF

CSI DIVISION	DIVISION TITLE	SUBTOTAL	TOTAL
<b>Base Bid Work</b>			
020000	Existing Conditions	\$ 39,791	
120000	Furnishings	\$ 22,500	
260000	Electrical	\$ 350,000	
310000	Earthwork	\$ 135,000	
320000	Exterior Improvements	\$ 828,077	
330000	Utilities	\$ 91,860	
	<b>Subtotal Base Bid</b>		<b>\$ 1,467,227</b>
<b>SUB TOTAL ESTIMATE</b>			<b>\$ 1,467,227</b>
	GENERAL CONDITIONS :	8.00% \$ 117,378	
	OVERHEAD AND PROFIT :	10.00% \$ 158,461	
	DESIGN CONTINGENCY :	15.00% \$ 261,460	
	CONTINGENCY ALLOWANCE:	5.00% \$ 100,226	
	BID CONTINGENCY:	5.00% \$ 105,238	
	PHASING:	0.00% \$ -	
<b>SUB TOTAL W/ MARKUPS</b>			<b>\$ 2,209,990</b>
	ESCALATION :	5.00% \$ 110,499	
<b>TOTAL CONSTRUCTION COST ESTIMATE</b>			<b>\$ 2,320,489</b>

Project:  
Client:  
Project Phase:  
Prepared By:  
MJ PN:

CHANEY DINING CENTER & PARKING IMPROVEMENTS  
STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
Program Phase Estimate  
MJ Engineering & Land Surveying, P.C.  
1425.03

**DETAILED ESTIMATE**

DESCRIPTION	QUANTITY	UNIT	MATERIAL		LABOR		UNIT PRICE	TOTAL AMOUNT
			UNIT RATE	AMOUNT	UNIT RATE	AMOUNT		
<b>020000 Existing Conditions</b>								
Remove Lawn	17,446	SF		\$ -	\$ 0.60	\$ 10,468	\$ 0.60	\$ 10,468
Remove Asphalt and Subbase	27,084	SF		\$ -	\$ 0.80	\$ 21,667	\$ 0.80	\$ 21,667
X-Cost for Sawcut @ Edge of Pavement	170	LF		\$ -	\$ 10.00	\$ 1,700	\$ 10.00	\$ 1,700
Remove Existing Granite Curbing	100	LF		\$ -	\$ 15.00	\$ 1,500	\$ 15.00	\$ 1,500
Underground Utility Locator Service	1	LS	\$ -	\$ -	\$ 1,500.00	\$ 1,500	\$ 1,500.00	\$ 1,500
Remove trees, stumps	5	EA	\$ 240.65	\$ 1,203	\$ 350.50	\$ 1,753	\$ 591.15	\$ 2,956
<b>120000 Furnishings</b>								
Four Seat table	10	EA	\$ 1,250.00	\$ 12,500	\$ 1,000.00	\$ 10,000	\$ 2,250.00	\$ 22,500
<b>260000 Electrical</b>								
Site lighting including pole, wiring, concrete base, earthwork, and removals	1	LS	\$ 175,000.00	\$ 175,000	\$ 175,000.00	\$ 175,000	\$ 350,000.00	\$ 350,000
<b>310000 Earthwork</b>								
Excavation and Site Grading	1,800	CY	\$ -	\$ -	\$ 50.00	\$ 90,000	\$ 50.00	\$ 90,000
Erosion and Sediment Controls	1	LS	\$ 25,000.00	\$ 25,000	\$ 20,000.00	\$ 20,000	\$ 45,000.00	\$ 45,000
<b>320000 Exterior Improvements</b>								
Granite Curb	80	LF	\$ 31.54	\$ 2,523	\$ 11.25	\$ 900	\$ 42.79	\$ 3,423
Concrete/Stone Veneer Retaining Wall	450	LF	\$ 95.00	\$ 42,750	\$ 120.00	\$ 54,000	\$ 215.00	\$ 96,750
Concrete sidewalk	5,300	SF	\$ 3.50	\$ 18,550	\$ 3.80	\$ 20,140	\$ 7.30	\$ 38,690
Full Depth Asphalt Walkways: incl. subbase	3,450	SF	\$ 6.25	\$ 21,563	\$ 0.75	\$ 2,588	\$ 7.00	\$ 24,150
Full Depth Asphalt Pavement: incl. subbase	18,350	SF	\$ 7.50	\$ 137,625	\$ 1.00	\$ 18,350	\$ 8.50	\$ 155,975
Pavement Markings	783	LF	\$ 0.80	\$ 626	\$ 1.50	\$ 1,175	\$ 2.30	\$ 1,801
Handicapped markings	2	EA	\$ 20.00	\$ 40	\$ 30.00	\$ 60	\$ 50.00	\$ 100
Granite treads at Plaza	310	SF	\$ 54.91	\$ 17,023	\$ 30.00	\$ 9,300	\$ 84.91	\$ 26,323
Covered Walkways	2,383	SF	\$ 45.00	\$ 107,235	\$ 45.00	\$ 107,235	\$ 90.00	\$ 214,470
Covered Stairs	1,262	SF	\$ 75.00	\$ 94,650	\$ 75.00	\$ 94,650	\$ 150.00	\$ 189,300
Precast cap on Seat Wall	180	LF	\$ 55.00	\$ 9,900	\$ 65.00	\$ 11,700	\$ 120.00	\$ 21,600
Decorative Seat Wall	280	SF	\$ 45.00	\$ 12,600	\$ 60.00	\$ 16,800	\$ 105.00	\$ 29,400
<b>Landscape</b>								
Tree	6	EA	\$ 400.00	\$ 2,400	\$ 190.00	\$ 1,140	\$ 590.00	\$ 3,540
Shrub	13	EA	\$ 75.00	\$ 975	\$ 60.00	\$ 780	\$ 135.00	\$ 1,755
Groundcover & Perennials at planters	750	SF	\$ 3.50	\$ 2,625	\$ 4.50	\$ 3,375	\$ 8.00	\$ 6,000
Topsoil and Mulch for Landscape and Planters	1,200	SF	\$ 0.50	\$ 600	\$ 1.00	\$ 1,200	\$ 1.50	\$ 1,800
Lawn	26,000	SF	\$ 0.30	\$ 7,800	\$ 0.20	\$ 5,200	\$ 0.50	\$ 13,000
<b>330000 Utilities</b>								
Precast Concrete Catch Basin	3	EA	\$ 1,400.00	\$ 4,200	\$ 800.00	\$ 2,400	\$ 2,200.00	\$ 6,600
Storm Sewer Pipe - 12" HDPE	250	LF	\$ 20.00	\$ 5,000	\$ 15.00	\$ 3,750	\$ 35.00	\$ 8,750
Perforated Underdrain (PVC - 4")	80	LF	\$ 10.00	\$ 800	\$ 15.00	\$ 1,200	\$ 25.00	\$ 2,000
Water Quality treatment device	1	EA	\$ 8,000.00	\$ 8,000	\$ 4,000.00	\$ 4,000	\$ 12,000.00	\$ 12,000
Bioretention Allowance	1	Loc.	\$ 15,000.00	\$ 15,000	\$ 15,000.00	\$ 15,000	\$ 30,000.00	\$ 30,000
Water piping- 6" DIP	300	LF	\$ 31.00	\$ 9,300	\$ 18.00	\$ 5,400	\$ 49.00	\$ 14,700
PVC- 8"	110	LF	\$ 36.00	\$ 3,960	\$ 35.00	\$ 3,850	\$ 71.00	\$ 7,810
Misc. Utility Adjustments	1	LS	\$ 5,000.00	\$ 5,000	\$ 5,000.00	\$ 5,000	\$ 10,000.00	\$ 10,000
<b>TOTAL DIRECT COST</b>				\$ 744,448		\$ 722,779		\$ 1,467,227

**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
RUSHTON/HERITAGE HALL SITE IMPROVEMENTS  
34 CORNELL DRIVE, CANTON, NY 13617**

MJ Project Number:  
1425.03

## **Program Phase Estimate**

**MJ Engineering & Land Surveying, P.C.  
1533 Crescent Road  
Clifton Park, NY 12065**



**Engineering and  
Land Surveying, P.C.**

**December 17, 2021**

**Project:**  
**Client:**  
**Project Phase:**  
**Prepared By:**  
**MJ PN:**

**RUSHTON/HERITAGE HALL SITE IMPROVEMENTS**  
**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON**  
 Program Phase Estimate  
 MJ Engineering & Land Surveying, P.C.  
 1425.03

TECHNICAL ASSUMPTIONS

HAZARDOUS MATERIALS EXCLUDED

ESTIMATE IS BASED ON CONCEPTUAL DRAWINGS DATED 10/12/2021

CONSTRUCTION PERIOD ASSUMED TO BE 2023, WITH ESTIMATE TO MID POINT

ESCALATION

Task	2021						2022												2023											
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	
Concept																														
Design																														
Bidding																														
Contract Execution																														
Construction																														
MidPoint																														

Escalation 20 months @ 0.25% per month

Escalation = 5.00%

**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
RUSHTON/HERITAGE HALL SITE IMPROVEMENTS**

**PROJECT ESTIMATE SUMMARY SHEET**

**Phase Report:** Program Phase Estimate  
**Prepared By:** MJ Engineering & Land Surveying, P.C.  
**MJ PN:** 1425.03  
**GROSS AREA (SF):** N/A  
**ESTIMATE \$/SF:** N/A /SF

CSI DIVISION	DIVISION TITLE	SUBTOTAL	TOTAL
<b>Base Bid Work</b>			
020000	Existing Conditions	\$ 48,781	
260000	Electrical	\$ 100,000	
310000	Earthwork	\$ 78,000	
320000	Exterior Improvements	\$ 436,268	
330000	Utilities	\$ 5,000	
	<b>Subtotal Base Bid</b>		\$ <b>668,049</b>
<b>SUB TOTAL ESTIMATE</b>			\$ <b>668,049</b>
	GENERAL CONDITIONS :	8.00% \$ 53,444	
	OVERHEAD AND PROFIT :	10.00% \$ 72,149	
	DESIGN CONTINGENCY :	15.00% \$ 119,046	
	CONTINGENCY ALLOWANCE:	5.00% \$ 45,634	
	BID CONTINGENCY:	5.00% \$ 47,916	
	PHASING:	0.00% \$ -	
<b>SUB TOTAL W/ MARKUPS</b>			\$ <b>1,006,239</b>
	ESCALATION :	5.00% \$ 50,312	
<b>TOTAL CONSTRUCTION COST ESTIMATE</b>			\$ <b>1,056,550</b>

Project:  
 Client:  
 Project Phase:  
 Prepared By:  
 MJ PN:

RUSHTON/HERITAGE HALL SITE IMPROVEMENTS  
 STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
 Program Phase Estimate  
 MJ Engineering & Land Surveying, P.C.  
 1425.03

**DETAILED ESTIMATE**

**Base Bid**

DESCRIPTION	QUANTITY	UNIT	MATERIAL		LABOR		UNIT PRICE	TOTAL AMOUNT
			UNIT RATE	AMOUNT	UNIT RATE	AMOUNT		
<b>020000 Existing Conditions</b>								
Remove lawn	29,834	SF		\$ -	\$ 0.60	\$ 17,900	\$ 0.60	\$ 17,900
Remove Asphalt and Subbase	8,838	SF		\$ -	\$ 0.80	\$ 7,070	\$ 0.80	\$ 7,070
X-Cost for Sawcut @ Edge of Pavement	120	LF		\$ -	\$ 10.00	\$ 1,200	\$ 10.00	\$ 1,200
Remove Existing Granite Curbing	28	LF		\$ -	\$ 15.00	\$ 420	\$ 15.00	\$ 420
Underground Utility Locator Service	1	LS	\$ -	\$ -	\$ 1,500.00	\$ 1,500	\$ 1,500.00	\$ 1,500
Remove trees, stumps	35	EA	\$ 240.65	\$ 8,423	\$ 350.50	\$ 12,268	\$ 591.15	\$ 20,690
<b>260000 Electrical</b>								
Site lighting including pole, wiring, concrete base, earthwork, and removals	1	LS	\$ 50,000.00	\$ 50,000	\$ 50,000.00	\$ 50,000	\$ 100,000.00	\$ 100,000
<b>310000 Earthwork</b>								
Excavation and Site Grading	1,200	CY	\$ -	\$ -	\$ 50.00	\$ 60,000	\$ 50.00	\$ 60,000
Erosion and Sediment Controls	1	LS	\$ 10,000.00	\$ 10,000	\$ 8,000.00	\$ 8,000	\$ 18,000.00	\$ 18,000
<b>320000 Exterior Improvements</b>								
Granite Curb	505	LF	\$ 31.54	\$ 15,928	\$ 11.25	\$ 5,681	\$ 42.79	\$ 21,609
Concrete sidewalk	2,987	SF	\$ 3.50	\$ 10,455	\$ 3.80	\$ 11,351	\$ 7.30	\$ 21,805
Full Depth Asphalt Pavement: incl. subbase	505	SF	\$ 4.50	\$ 2,273	\$ 1.00	\$ 505	\$ 5.50	\$ 2,778
Covered Stairs	2,160	SF	\$ 75.00	\$ 162,000	\$ 75.00	\$ 162,000	\$ 150.00	\$ 324,000
Concrete/Stone Veneer Retaining Wall	192	LF	\$ 95.00	\$ 18,240	\$ 120.00	\$ 23,040	\$ 215.00	\$ 41,280
<b>Landscape</b>								
Tree	12	EA	\$ 400.00	\$ 4,800	\$ 190.00	\$ 2,280	\$ 590.00	\$ 7,080
Lawn	35,432	SF	\$ 0.30	\$ 10,630	\$ 0.20	\$ 7,086	\$ 0.50	\$ 17,716
<b>330000 Utilities</b>								
Misc. Utility Adjustments	1	LS	\$ 2,500.00	\$ 2,500	\$ 2,500.00	\$ 2,500	\$ 5,000.00	\$ 5,000
<b>TOTAL DIRECT COST</b>				\$ 295,247		\$ 372,802		\$ 668,049

**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
RUSHTON/HERITAGE HALL SITE IMPROVEMENTS**

**ALTERNATE 1 SUMMARY SHEET**

**Phase Report:** Program Phase Estimate  
**Prepared By:** MJ Engineering & Land Surveying, P.C.  
**MJ PN:** 1425.03  
**GROSS AREA (SF):** N/A  
**ESTIMATE \$/SF:** N/A /SF

CSI DIVISION	DIVISION TITLE	SUBTOTAL	TOTAL
<b>Alternate 1 Work</b>			
320000	Exterior Improvements	\$ 75,260	
	<b>Subtotal ALTERNATE 1</b>		<b>\$ 75,260</b>
<b>SUB TOTAL ESTIMATE</b>			<b>\$ 75,260</b>
	GENERAL CONDITIONS :	10.00% \$ 7,526	
	OVERHEAD AND PROFIT :	15.00% \$ 12,418	
	DESIGN CONTINGENCY :	5.00% \$ 4,760	
	CONTINGENCY ALLOWANCE:	6.00% \$ 5,998	
	BID CONTINGENCY:	5.00% \$ 5,298	
	PHASING:	0.00% \$ -	
<b>SUB TOTAL W/ MARKUPS</b>			<b>\$ 111,259</b>
	ESCALATION :	5.00% \$ 5,563	
<b>ALTERNATE 1 CONSTRUCTION COST ESTIMATE</b>			<b>\$ 116,822</b>

Project:  
 Client:  
 Project Phase:  
 Prepared By:  
 MJ PN:

RUSHTON/HERITAGE HALL SITE IMPROVEMENTS  
 STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
 Program Phase Estimate  
 MJ Engineering & Land Surveying, P.C.  
 1425.03

**DETAILED ESTIMATE**  
**ALTERNATE 1**

DESCRIPTION	QUANTITY	UNIT	MATERIAL		LABOR		UNIT PRICE	TOTAL AMOUNT
			UNIT RATE	AMOUNT	UNIT RATE	AMOUNT		
<b>320000 Exterior Improvements</b>								
329120 Precast cap on seating wall	389	LF	\$ 55.00	\$ 21,395	\$ 65.00	\$ 25,285	\$ 120.00	\$ 46,680
Decorative Seat Wall	146	SF	\$ 45.00	\$ 6,570	\$ 60.00	\$ 8,760	\$ 105.00	\$ 15,330
Concrete sidewalk	1,815	SF	\$ 3.50	\$ 6,353	\$ 3.80	\$ 6,897	\$ 7.30	\$ 13,250
<b>TOTAL DIRECT COST</b>				\$ 34,318		\$ 40,942		\$ <b>75,260</b>



**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
PARKING LOT 4 LAYOUT IMPROVEMENTS  
34 CORNELL DRIVE, CANTON, NY 13617**

MJ Project Number:  
1425.03

**Program Phase Estimate**

**MJ Engineering & Land Surveying, P.C.  
1533 Crescent Road  
Clifton Park, NY 12065**



**Engineering and  
Land Surveying, P.C.**

**December 17, 2021**

**Project:**  
**Client:**  
**Project Phase:**  
**Prepared By:**  
**MJ PN:**

**PARKING LOT 4 LAYOUT IMPROVEMENTS**  
**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON**  
 Program Phase Estimate  
 MJ Engineering & Land Surveying, P.C.  
 1425.03

TECHNICAL ASSUMPTIONS

HAZARDOUS MATERIALS EXCLUDED

ESTIMATE IS BASED ON CONCEPT DRAWINGS DATED 10/12/2021

CONSTRUCTION PERIOD ASSUMED TO BE 2023, WITH ESTIMATE TO MID POINT

ESCALATION

Task	2021						2022												2023											
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	
Concept																														
Design																														
Bidding																														
Contract Execution																														
Construction																														
MidPoint																														

Escalation 20 months @ 0.25% per month

Escalation = 5.00%

**STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
PARKING LOT 4 LAYOUT IMPROVEMENTS**

**PROJECT ESTIMATE SUMMARY SHEET**

**Phase Report:** Program Phase Estimate  
**Prepared By:** MJ Engineering & Land Surveying, P.C.  
**MJ PN:** 1425.03  
**GROSS AREA (SF):** N/A  
**ESTIMATE \$/SF:** N/A /SF

CSI DIVISION	DIVISION TITLE	SUBTOTAL	TOTAL
<b>Base Bid Work</b>			
020000	Existing Conditions	\$ 246,469	
120000	Furnishings	\$ 6,000	
260000	Electrical	\$ 400,000	
310000	Earthwork	\$ 380,000	
320000	Exterior Improvements	\$ 1,346,991	
330000	Utilities	\$ 332,105	
	<b>Subtotal Base Bid</b>		<b>\$ 2,711,565</b>
		<b>SUB TOTAL ESTIMATE</b>	<b>\$ 2,711,565</b>
	GENERAL CONDITIONS :	8.00% \$ 216,925	
	OVERHEAD AND PROFIT :	10.00% \$ 292,849	
	DESIGN CONTINGENCY :	15.00% \$ 483,201	
	CONTINGENCY ALLOWANCE:	5.00% \$ 185,227	
	BID CONTINGENCY:	5.00% \$ 194,488	
	PHASING:	0.00% \$ -	
		<b>SUB TOTAL W/ MARKUPS</b>	<b>\$ 4,084,256</b>
	ESCALATION :	5.00% \$ 204,213	
		<b>TOTAL CONSTRUCTION COST ESTIMATE</b>	<b>\$ 4,288,469</b>

Project:  
Client:  
Project Phase:  
Prepared By:  
MJ PN:

PARKING LOT 4 LAYOUT IMPROVEMENTS  
STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY AT CANTON  
Program Phase Estimate  
MJ Engineering & Land Surveying, P.C.  
1425.03

**DETAILED ESTIMATE**

DESCRIPTION	QUANTITY	UNIT	MATERIAL		LABOR		UNIT PRICE	TOTAL AMOUNT
			UNIT RATE	AMOUNT	UNIT RATE	AMOUNT		
<b>020000 Existing Conditions</b>								
Clearing and Grubbing	120,000	SF	\$ -	\$ -	\$ 1.50	\$ 180,000	\$ 1.50	\$ 180,000
Remove Asphalt and Subbase	72,000	SF	\$ -	\$ -	\$ 0.80	\$ 57,600	\$ 0.80	\$ 57,600
X-Cost for Sawcut @ Edge of Pavement	181	LF	\$ -	\$ -	\$ 10.00	\$ 1,810	\$ 10.00	\$ 1,810
Remove Concrete Sidewalk and Subbase	1,950	SF	\$ -	\$ -	\$ 2.00	\$ 3,900	\$ 2.00	\$ 3,900
X-Cost for Sawcut @ Edge of sidewalk	57	LF	\$ -	\$ -	\$ 12.00	\$ 684	\$ 12.00	\$ 684
Remove Existing Granite Curbing	65	LF	\$ -	\$ -	\$ 15.00	\$ 975	\$ 15.00	\$ 975
Underground Utility Locator Service	1	LS	\$ -	\$ -	\$ 1,500.00	\$ 1,500	\$ 1,500.00	\$ 1,500
Remove trees, stumps	3	EA	\$ 240.65	\$ 722	\$ 350.50	\$ 1,052	\$ 591.15	\$ 1,773
<b>120000 Furnishings</b>								
Benches	4	EA	\$ 1,000.00	\$ 4,000	\$ 500.00	\$ 2,000	\$ 1,500.00	\$ 6,000
<b>260000 Electrical</b>								
Site lighting including pole, wiring, concrete base, earthwork, and removals	1	LS	\$ 200,000.00	\$ 200,000	\$ 200,000.00	\$ 200,000	\$ 400,000.00	\$ 400,000
<b>310000 Earthwork</b>								
Excavation and Site Grading	6,500	CY	\$ -	\$ -	\$ 50.00	\$ 325,000	\$ 50.00	\$ 325,000
Erosion and Sediment Controls	1	LS	\$ 30,000.00	\$ 30,000	\$ 25,000.00	\$ 25,000	\$ 55,000.00	\$ 55,000
<b>320000 Exterior Improvements</b>								
Decorative Concrete	2,220	SF	\$ 4.50	\$ 9,990	\$ 5.00	\$ 11,100	\$ 9.50	\$ 21,090
Granite Curb	2,250	LF	\$ 31.54	\$ 70,965	\$ 11.25	\$ 25,313	\$ 42.79	\$ 96,278
Concrete sidewalk	15,275	SF	\$ 3.50	\$ 53,463	\$ 3.80	\$ 58,045	\$ 7.30	\$ 111,508
Full Depth Asphalt Pavement: incl. subbase	114,800	SF	\$ 7.50	\$ 861,000	\$ 1.00	\$ 114,800	\$ 8.50	\$ 975,800
Crosswalk beacon	6	EA	\$ 2,000.00	\$ 12,000	\$ 2,000.00	\$ 12,000	\$ 4,000.00	\$ 24,000
Pavement Markings	6,044	LF	\$ 0.80	\$ 4,835	\$ 1.50	\$ 9,066	\$ 2.30	\$ 13,901
Handicapped markings	10	EA	\$ 20.00	\$ 200	\$ 30.00	\$ 300	\$ 50.00	\$ 500
Precast cap on Seat wall	60	LF	\$ 55.00	\$ 3,300	\$ 65.00	\$ 3,900	\$ 120.00	\$ 7,200
Decorative Seat Wall	100	SF	\$ 45.00	\$ 4,500	\$ 60.00	\$ 6,000	\$ 105.00	\$ 10,500
<b>Landscape</b>								
Tree	37	EA	\$ 400.00	\$ 14,800	\$ 190.00	\$ 7,030	\$ 590.00	\$ 21,830
Topsoil and Mulch for Landscape and Planters	1,200	SF	\$ 0.50	\$ 600	\$ 1.00	\$ 1,200	\$ 1.50	\$ 1,800
Groundcover & Perennials at planters	1,800	SF	\$ 3.50	\$ 6,300	\$ 4.50	\$ 8,100	\$ 8.00	\$ 14,400
Lawn	96,370	SF	\$ 0.30	\$ 28,911	\$ 0.20	\$ 19,274	\$ 0.50	\$ 48,185
<b>330000 Utilities</b>								
Precast Concrete Catch Basin	12	EA	\$ 1,400.00	\$ 16,800	\$ 800.00	\$ 9,600	\$ 2,200.00	\$ 26,400
Storm Sewer Pipe - 12" HDPE	1,250	LF	\$ 20.00	\$ 25,000	\$ 15.00	\$ 18,750	\$ 35.00	\$ 43,750
Perforated Underdrain (PVC - 4")	200	LF	\$ 10.00	\$ 2,000	\$ 15.00	\$ 3,000	\$ 25.00	\$ 5,000
Water Quality treatment device	1	EA	\$ 8,000.00	\$ 8,000	\$ 4,000.00	\$ 4,000	\$ 12,000.00	\$ 12,000
Bioretention Allowance	1	Loc.	\$ 70,000.00	\$ 70,000	\$ 70,000.00	\$ 70,000	\$ 140,000.00	\$ 140,000
Water piping- 6" DIP	300	LF	\$ 31.00	\$ 9,300	\$ 18.00	\$ 5,400	\$ 49.00	\$ 14,700
PVC- 8"	905	LF	\$ 36.00	\$ 32,580	\$ 35.00	\$ 31,675	\$ 71.00	\$ 64,255
Sanitary Sewer Manhole	2	EA	\$ 5,000.00	\$ 10,000	\$ 3,000.00	\$ 6,000	\$ 8,000.00	\$ 16,000
Misc. Utility Adjustments	1	LS	\$ 5,000.00	\$ 5,000	\$ 5,000.00	\$ 5,000	\$ 10,000.00	\$ 10,000
<b>TOTAL DIRECT COST</b>								
			\$ 1,484,266		\$ 1,229,073			\$ 2,713,339

# **Appendix C**

## **Meeting Minutes**



## SUNY Canton

### Site Improvements Program Study – Various Locations

MJ PN: 1425.03

#### Site Program Study Concept Review

Wednesday, September 15, 2021 10:00 AM EST

Halford Hall, SUNY Canton

**Meeting Objective:** To review draft concepts for the site redevelopment of Chaney Dining Center, Rushton and Heritage Halls, and Parking Lot 4.

ATTENDEES			
Name	Organization	Email	Phone
Jenny Lippmann (JL)	MJELS, Project Manager	<a href="mailto:jlippmann@mjels.com">jlippmann@mjels.com</a>	518-371-0799
Traci Sousa (TS)	MJELS, Project Engineer	<a href="mailto:tsousa@mjels.com">tsousa@mjels.com</a>	518-371-0799 (Phone)
Alison Yovine (AY)	MJELS, Landscape Architect	<a href="mailto:ayovine@mjels.com">ayovine@mjels.com</a>	518-371-0799 (Phone)
Brian teRiele (BT)	SUNY Canton, Campus Site Representative	<a href="mailto:terieleb@canton.edu">terieleb@canton.edu</a>	315-386-7398
Michael McCormick	SUNY Canton, Executive Director of Facilities	<a href="mailto:mccormic@canton.edu">mccormic@canton.edu</a>	315 386-7222

MINUTES	
Item	Responsibility
<b>1 Chaney Dining Concept</b>	
Chaney – Generally the campus prefers the ramps layout of Option 1, however the ellipse of Option 2 is preferred.	
Only one ADA ramp is required.	
Review if the fire access on the north side of Chaney is ADA accessible.	
Include ADA spaces on the south side of the building on the next submission.	
Need to review impacts of the electric ductbank and other utilities in this area which may limit the ability to conduct the proposed grading.	
<b>2 Rushton &amp; Heritage Hall</b>	
The Campus prefers Option 2. Need to take utilities into account.	
Covered bridge design inspiration should be taken from the covered bridge in Canton. Look at <a href="http://cantonny.gov">cantonny.gov</a> . The campus is trying to take architecture from this bridge as inspiration for covered walkways.	



---

### 3 CARC Parking Lot (No. 4)

---

TS presented the two options. Option 1 includes suggestions from the campus.

Discussed option 2's ability for bus turning movements. As long as there is enough space, this option is preferred.

Move bus drop off so that the bus egress isn't front and center at the main entrance. Try to enhance the main entrance to the building with the layout of the parking lot.

Is there an ability to entrance the entrance to the fitness center?

Address the small parking lot and address ADA needs in this area.

Currently have 240 parking spaces. As many spots that can be gained is desired. However, there isn't a target that the campus has in mind.

---

### 4 Schedule Review

---

- Presentation of Conceptual Options: 9/15/21 – COMPLETE
- Presentation of Preferred Concepts: 9/28/21 –Pending
- 90% Program Report: 10/13/21 – Pending
- Campus Review: 11/3/21 – Pending
- Final Program Report: 11/24/21 – Pending

---

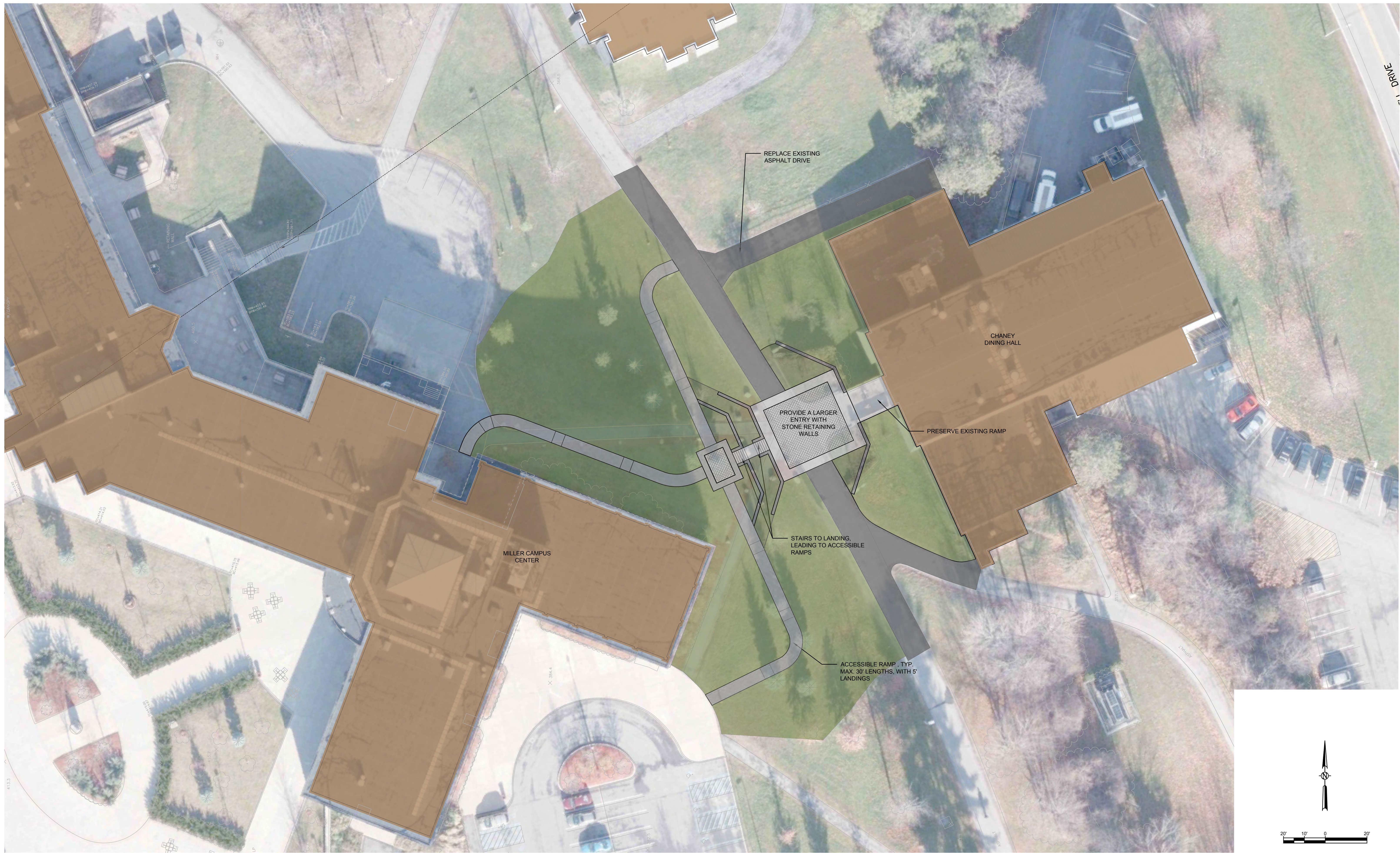
### 5 Meeting Wrap Up

---

**Attachments: Concept Drawings**

**End of Meeting Minutes**

Note: this document represents the writer's understanding of the comments, decisions or actions taken at the meeting listed and are not intended as a full representation of the meeting. Please advise the writer in writing of additions or corrections required upon receipt or the information herein shall be deemed to be an accurate record of the meeting.



REVIEWED BY:	DATE

PROJ. MANAGER: ###
CHIEF DESIGNER: ###
DESIGNED BY: ###
DRAWN BY: ###
CHECKED BY: ###


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



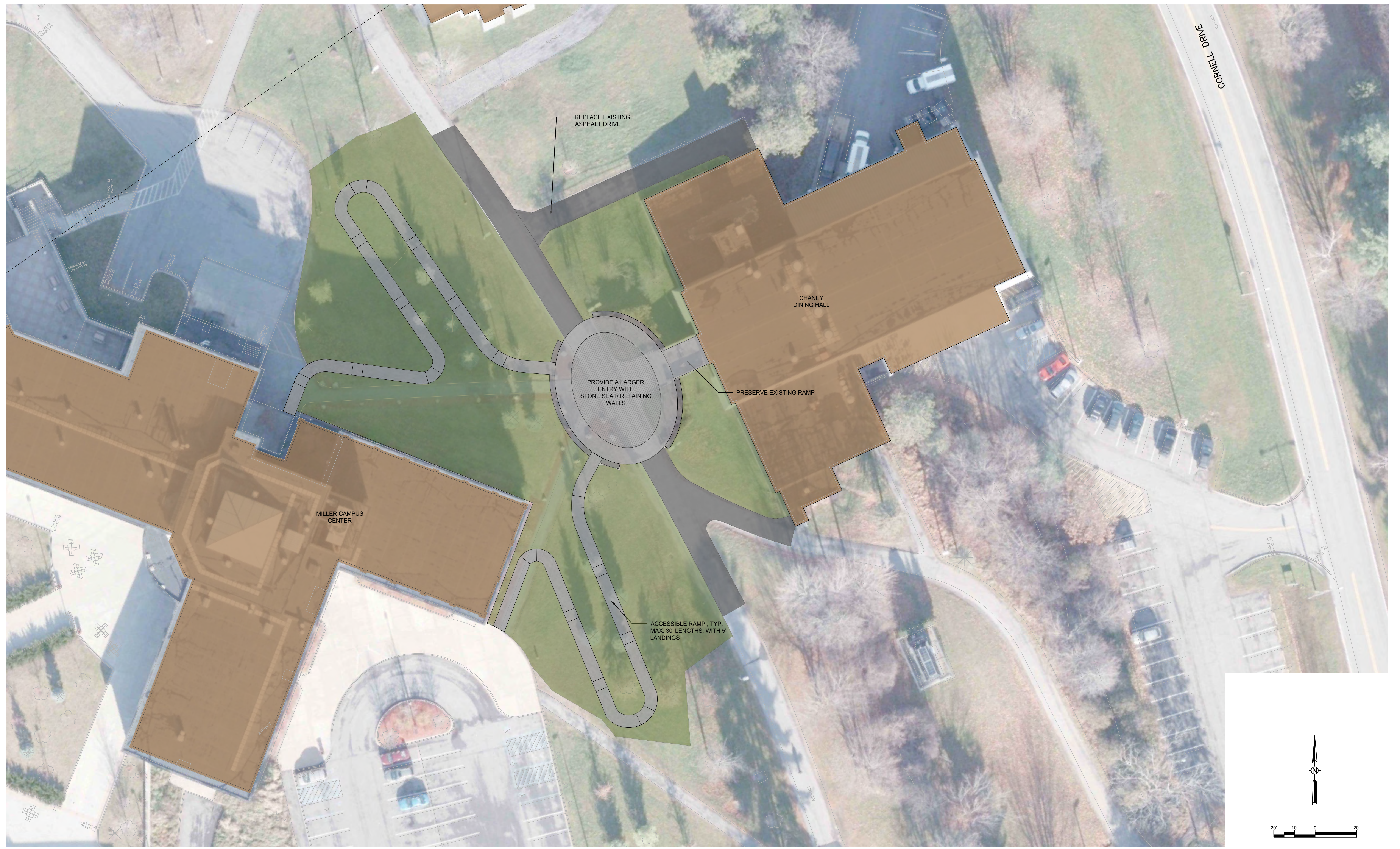
**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CONCEPT 1**  
**CHANEY DINING CENTER**  
34 CORNELL DRIVE  
CANTON NY

SCALE: 1" = 20'  
CONTRACT No.: ###  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021

**C-1.0**





NO.	REVISION	DATE	BY

REVIEWED BY:	DATE
PROJ. MANAGER: ###	
CHIEF DESIGNER: ###	
DESIGNED BY: ###	
DRAWN BY: ###	
CHECKED BY: ###	

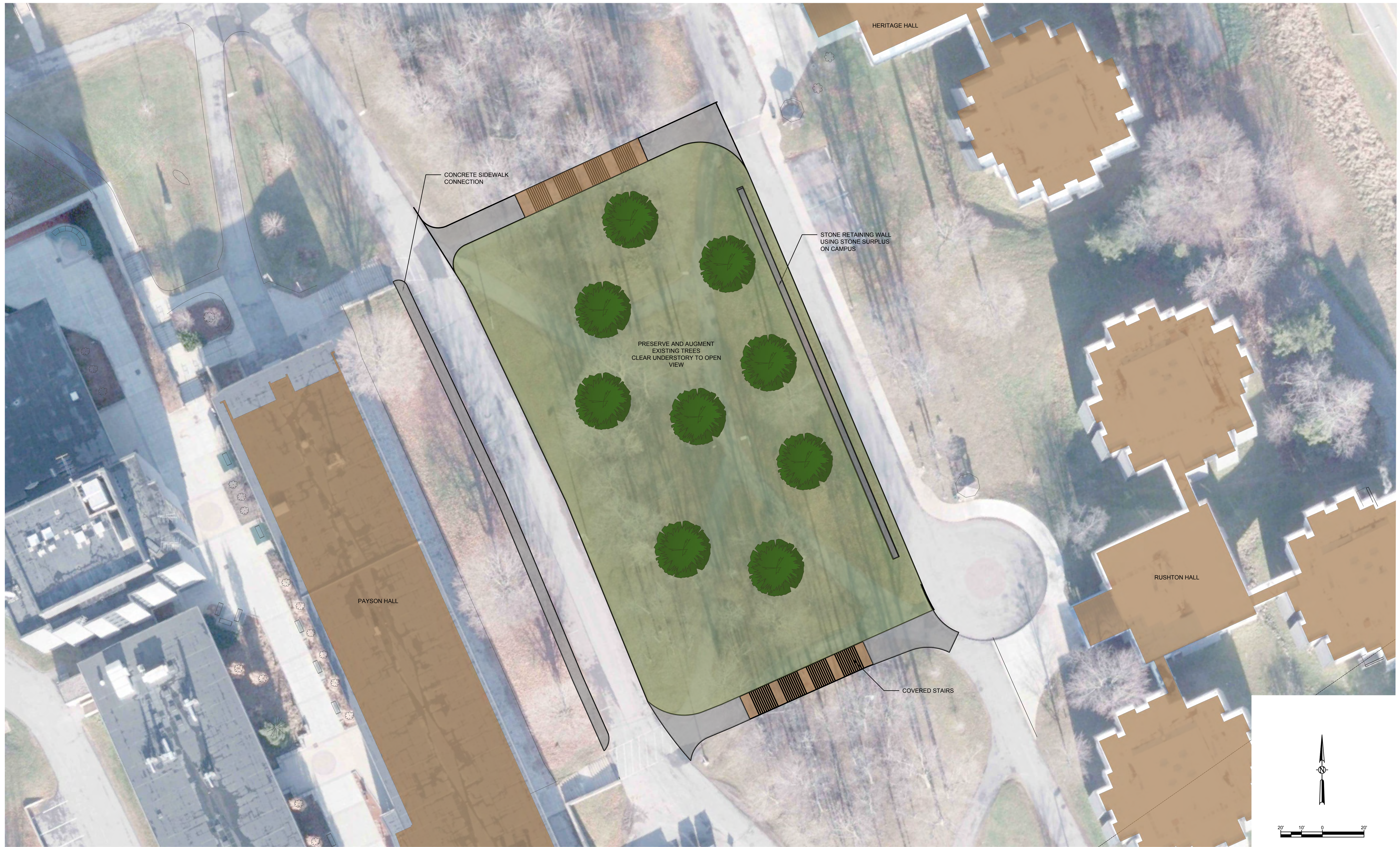

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY Canton  
**CONCEPT 2**  
**CHANEY DINING CENTER**  
34 Cornell Drive  
Canton NY

SCALE: 1" = 20'  
CONTRACT No.: ###  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021  
**C-1.1**



CONCRETE SIDEWALK CONNECTION

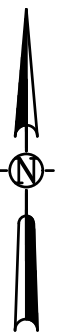
STONE RETAINING WALL USING STONE SURPLUS ON CAMPUS

PRESERVE AND AUGMENT EXISTING TREES CLEAR UNDERSTORY TO OPEN VIEW

PAYSON HALL

COVERED STAIRS

RUSHTON HALL



20' 10' 0' 20'

REVIEWED BY:	DATE

PROJ. MANAGER: ###
CHIEF DESIGNER: ###
DESIGNED BY: ###
DRAWN BY: ###
CHECKED BY: ###


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.



**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CONCEPT 1  
RUSHTON/HERITAGE HALL**  
34 CORNELL DRIVE  
CANTON NY

SCALE: 1" = 20'  
CONTRACT No.: ###  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021  
**C-2.0**



CONCRETE SIDEWALK CONNECTION

STONE RETAINING WALL USING STONE SURPLUS ON CAMPUS

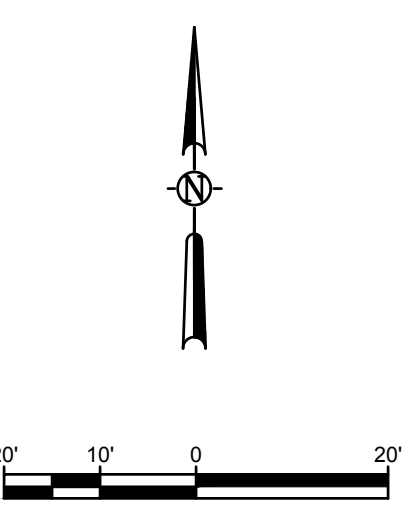
REGRADE SLOPE TO PROVIDE SMALL LEVEL AREA WITH SEAT WALL

PAYSON HALL

RUSHTON HALL

COVERED STAIRS

EXTENDED LANDING PROVIDING ACCESS TO CONCRETE WALKWAY



REVIEWED BY:	DATE

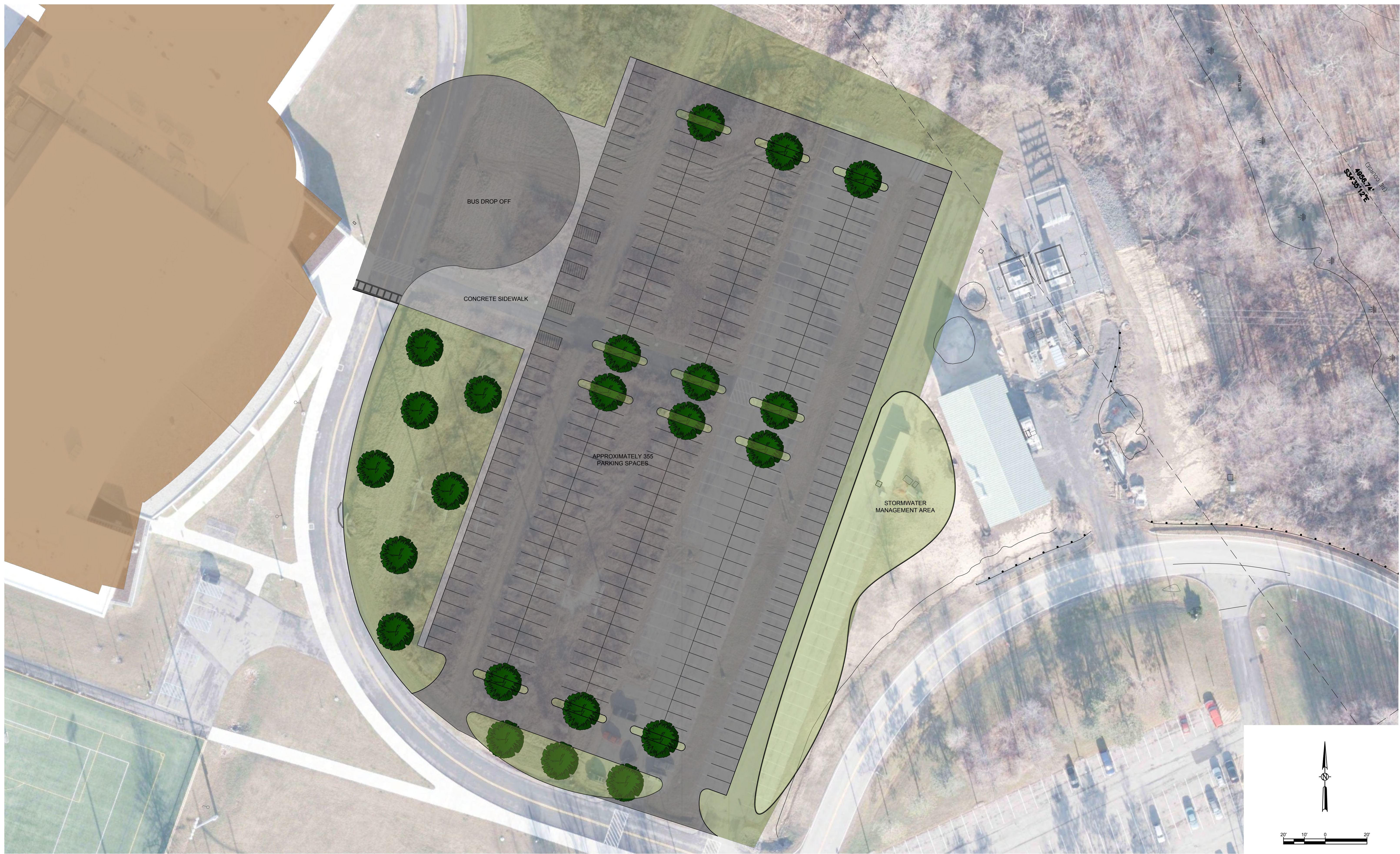
PROJ. MANAGER: ###
CHIEF DESIGNER: ###
DESIGNED BY: ###
DRAWN BY: ###
CHECKED BY: ###


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CONCEPT 2  
RUSHTON/HERITAGE HALL**  
34 CORNELL DRIVE  
CANTON NY

SCALE: 1" = 20'  
CONTRACT No.: ###  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021  
**C-2.1**



REVIEWED BY:	DATE

PROJ. MANAGER: ###
CHIEF DESIGNER: ###
DESIGNED BY: ###
DRAWN BY: ###
CHECKED BY: ###


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

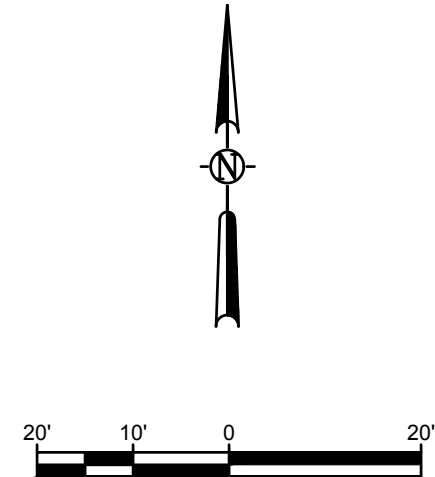
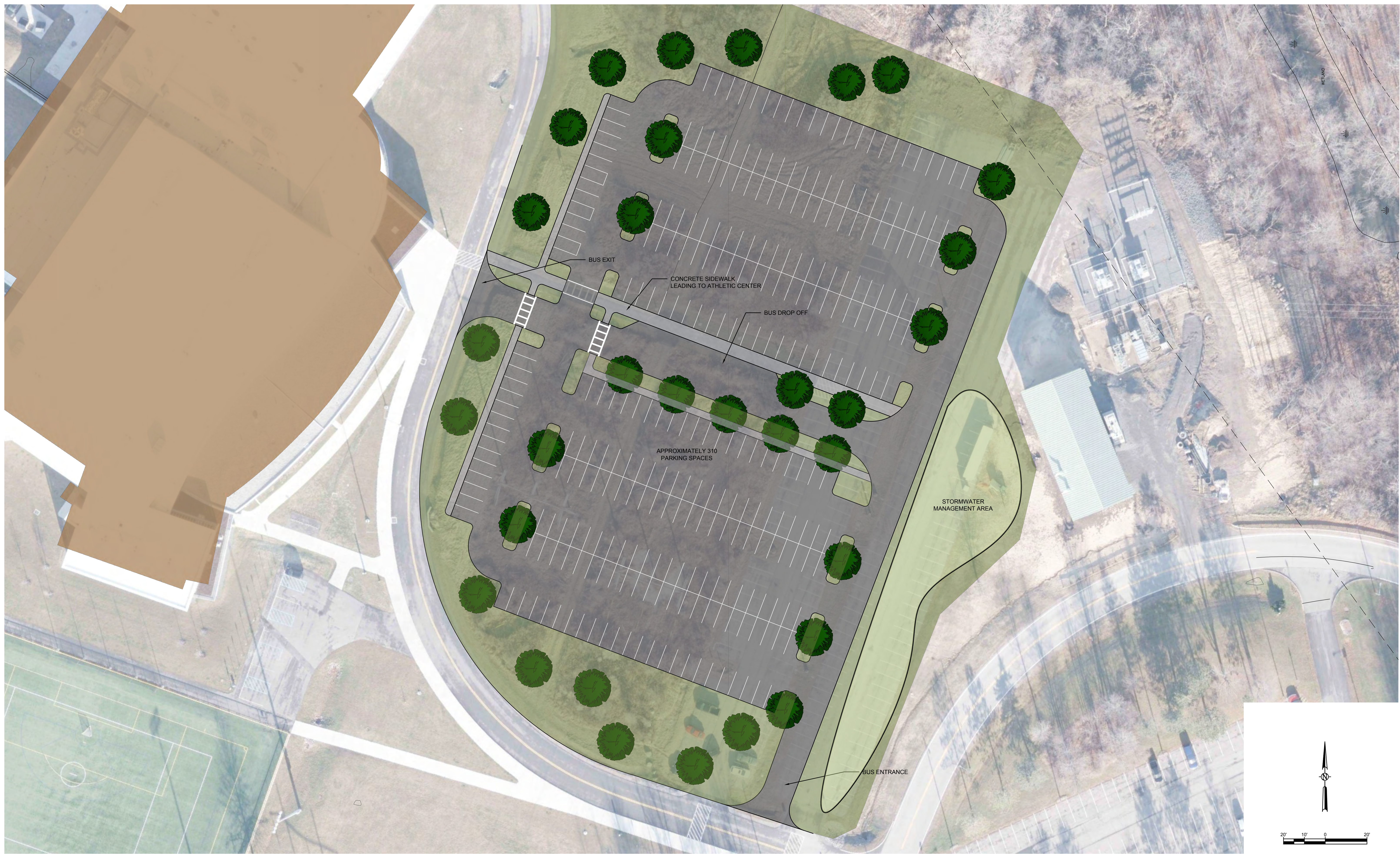


**Engineering and  
Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CONCEPT 1  
PARKING LOT 4**  
34 CORNELL DRIVE  
CANTON NY

SCALE: 1" = 30'  
CONTRACT No.: #####  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021

**C-3.0**



REVIEWED BY:	DATE

PROJ. MANAGER: ###
CHIEF DESIGNER: ###
DESIGNED BY: ###
DRAWN BY: ###
CHECKED BY: ###


THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

**Engineering and Land Surveying, P.C.**  
1533 Crescent Road - Clifton Park, NY 12065

SUNY CANTON  
**CONCEPT 2  
PARKING LOT 4**  
34 CORNELL DRIVE  
CANTON NY

SCALE: 1" = 30'  
CONTRACT No: ###  
MJ PROJ. No.: MJ1425.03  
DATE: September 2021

**C-3.1**



**SUNY Canton**

**Site Improvements Program Study – Various Locations**

MJ PN: 1425.03

**Site Program Study Concept Presentation**

Tuesday, September 28, 2021 1:00 PM EST

French Hall 212, SUNY Canton

**Meeting Objective:** To review draft concepts for the site redevelopment of Chaney Dining Center & Parking Lot, Rushton and Heritage Halls, and Parking Lot 4.

Jenny Lippmann (JL)	MJELS, Project Manager	<a href="mailto:jlippmann@mjels.com">jlippmann@mjels.com</a>	518-371-0799
Traci Sousa (TS)	MJELS, Project Engineer	<a href="mailto:tsousa@mjels.com">tsousa@mjels.com</a>	518-371-0799
Shawn Miller	SUNY Canton Vice President for Administration	<a href="mailto:millers@canton.edu">millers@canton.edu</a>	
Brian teRiele (BT)	SUNY Canton, Campus Site Representative	<a href="mailto:terieleb@canton.edu">terieleb@canton.edu</a>	315-386-7398
Michael McCormick (MM)	SUNY Canton, Executive Director of Facilities	<a href="mailto:mccormic@canton.edu">mccormic@canton.edu</a>	315 386-7222
Michelle O’Brian	SUNY Canton, Project Manager	<a href="mailto:obrianm@canton.edu">obrianm@canton.edu</a>	315-386-7330
Rick Beerle	SUCF, Senior Project Coordinator	<a href="mailto:richard.beerle@suny.edu">richard.beerle@suny.edu</a>	518-320-1703
Dan Donlon	SUCF, Regional Director	<a href="mailto:dan.donlon@suny.edu">dan.donlon@suny.edu</a>	518-320-1776

**MINUTES**

**Item**

**1 Introductions & Project Overview**

Introductions and a general project overview were initiated by JL with input from MM.

**2 Rushton & Heritage Hall**

TS presented the preferred concept for Rushton/Heritage Hall including the “Adirondack Style” covered structure anticipated to match the aesthetic of the covered bridge on Campus.





---

### 3 Chaney Dining Center & Parking Lot Concept

---

TS presented the preferred concept for Chaney Dining Center & Parking Lot

---

MM and BT expressed a need for an additional connection path to Parking Lot 13

---

MM initiated discussion with the work JMZ is doing at Chaney Dining Center and the need to ensure the aesthetic of the site work project matches that of the new entrance

---

BT stated that the drive way to the lower parking lot can be shifted if necessary

---

---

### 4 Parking Lot 4

---

TS presented the preferred concept for Parking Lot 4.

---

---

### 5 Schedule Review

---

TS reviewed the project schedule moving forward:

- Presentation of Conceptual Options: 9/15/21 – COMPLETE
  - Presentation of Preferred Concepts: 9/28/21 – COMPLETE
  - 90% Program Report: 10/13/21 – Pending
  - Campus Review: 11/3/21 – Pending
  - Final Program Report: 11/24/21 – Pending
- 

---

### 6 Meeting Wrap Up

---

**Attachments: Presentation Materials**

## End of Meeting Minutes

Note: this document represents the writer's understanding of the comments, decisions or actions taken at the meeting listed and are not intended as a full representation of the meeting. Please advise the writer in writing of additions or corrections required upon receipt or the information herein shall be deemed to be an accurate record of the meeting.



**SITE PROGRAM STUDIES | SUNY CANTON**





## STUDY AREA

- Chaney Dining Center & Parking Lot
- Rushton/Heritage Hall
- Parking Lot 4



PROJECT STUDY AREA LIMITS

**RUSHTON / HERITAGE  
HALL PROGRAM AREA**

HERITAGE HALL

COVERED STAIRWAY

ELECTRICAL  
DUCTBANKS

RETAINING  
STRUCTURE

SIDEWALK EXTENSION

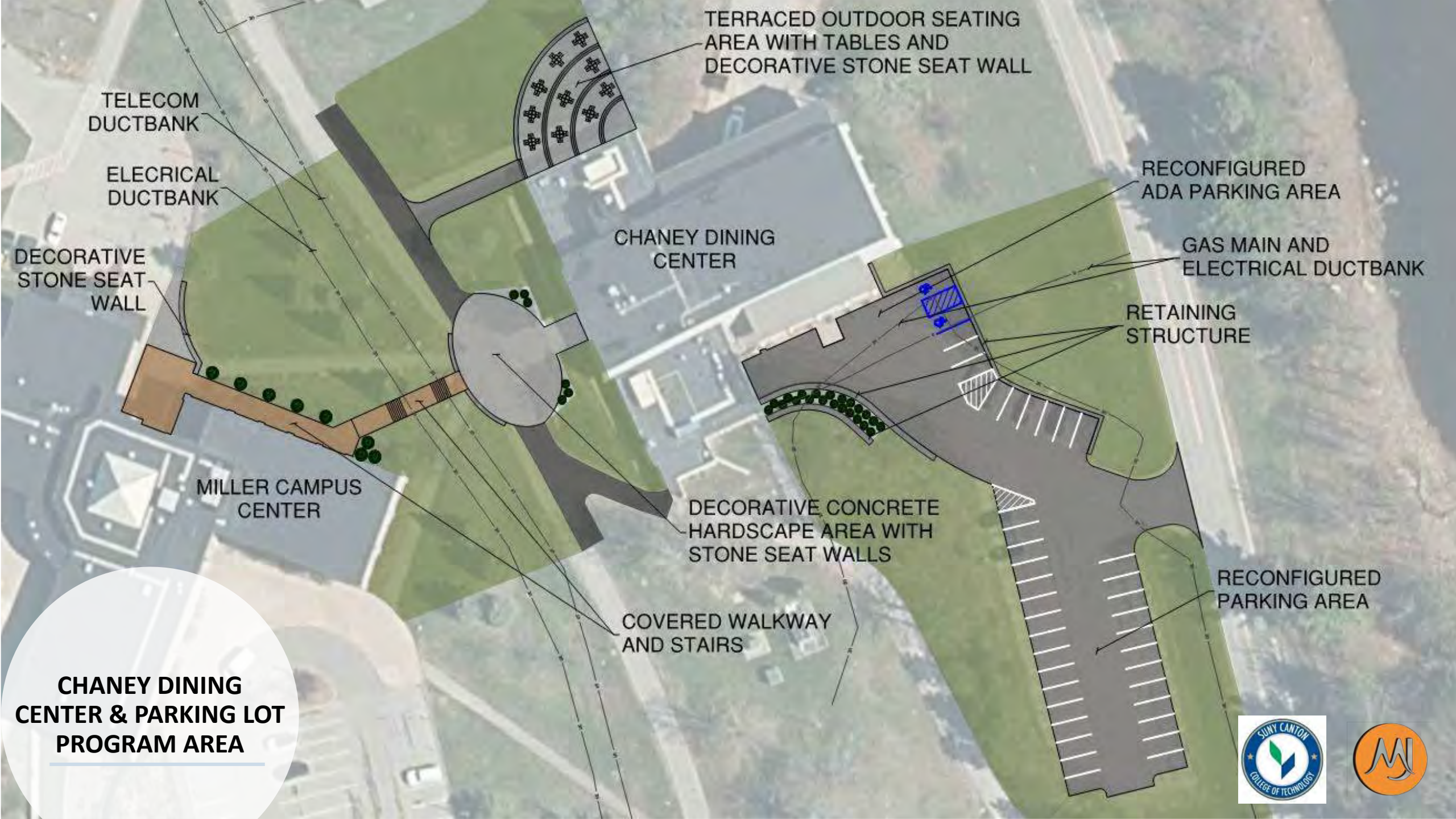
RUSHTON HALL

FUTURE  
PROGRAMING AREA

PAYSON HALL

COVERED STAIRWAY





TERRACED OUTDOOR SEATING AREA WITH TABLES AND DECORATIVE STONE SEAT WALL

TELECOM DUCTBANK

ELECTRICAL DUCTBANK

RECONFIGURED ADA PARKING AREA

DECORATIVE STONE SEAT WALL

CHANEY DINING CENTER

GAS MAIN AND ELECTRICAL DUCTBANK

RETAINING STRUCTURE

MILLER CAMPUS CENTER

DECORATIVE CONCRETE HARDSCAPE AREA WITH STONE SEAT WALLS

RECONFIGURED PARKING AREA

COVERED WALKWAY AND STAIRS

**CHANEY DINING CENTER & PARKING LOT PROGRAM AREA**



**LOT 4  
PROGRAM AREA**

RECONFIGURED PARKING LOT WITH 316 TOTAL SPACES

RAISED PEDESTRIAN CROSSING

ROOS HOUSE  
(ATHLETIC CENTER)

ENERGY CENTER

BUS DROP OFF

STORMWATER  
MANAGEMENT AREA

ENTRY PLAZA TO SYNTHETIC  
FIELDS WITH DECORATIVE  
STONE SEAT WALLS

PEDESTRIAN CONNECTION  
TO ACADEMIC AREAS

