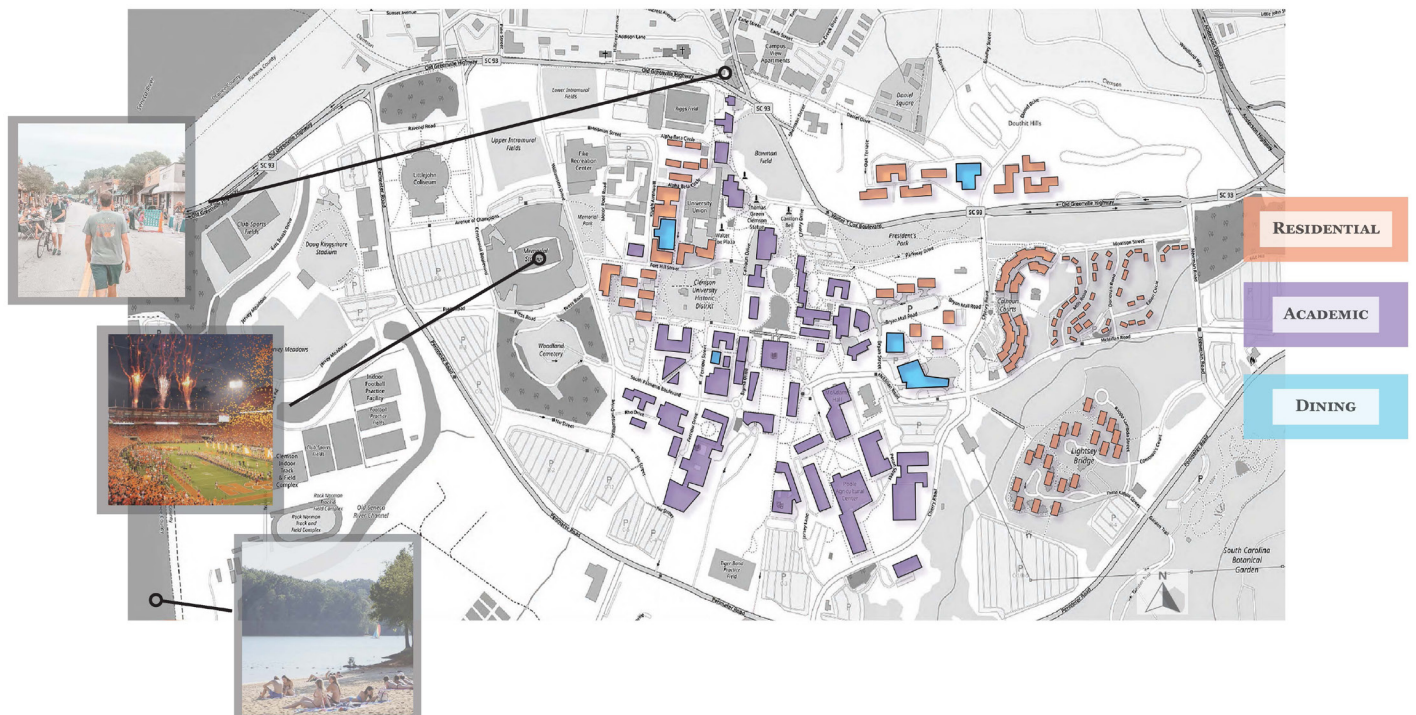
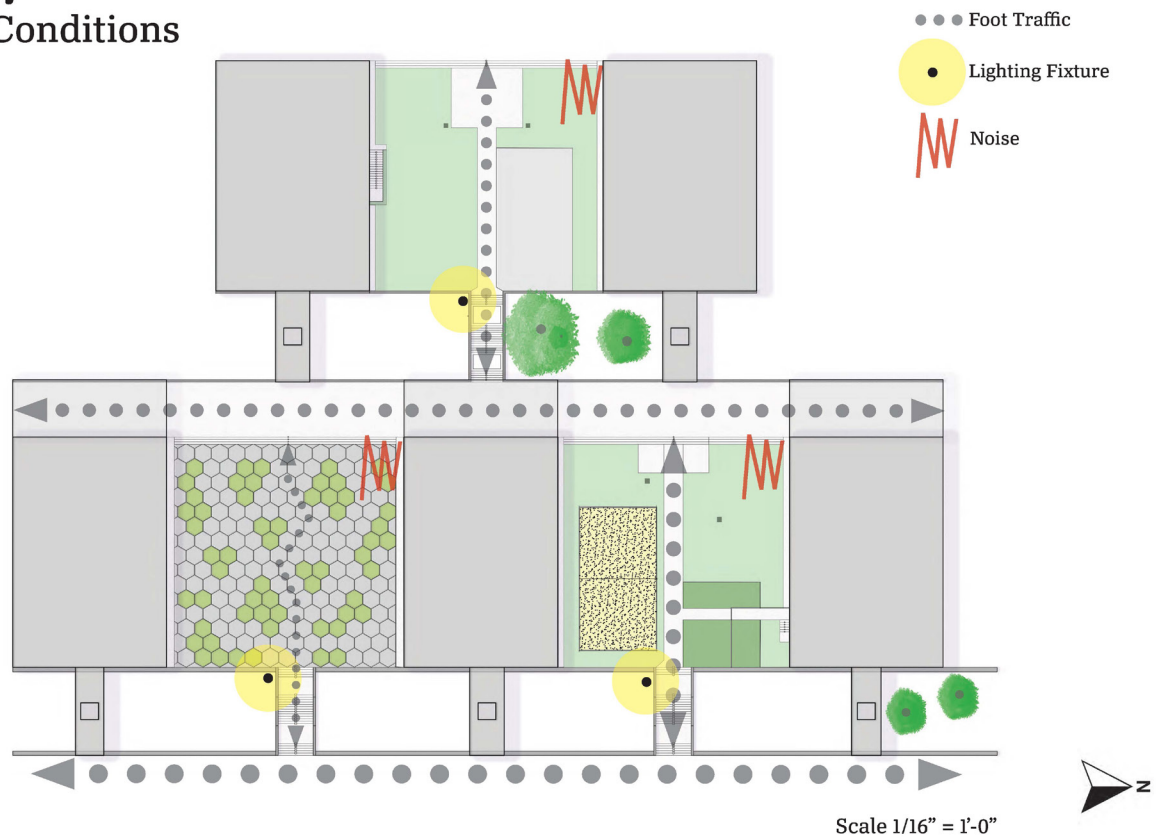


WITHOUT

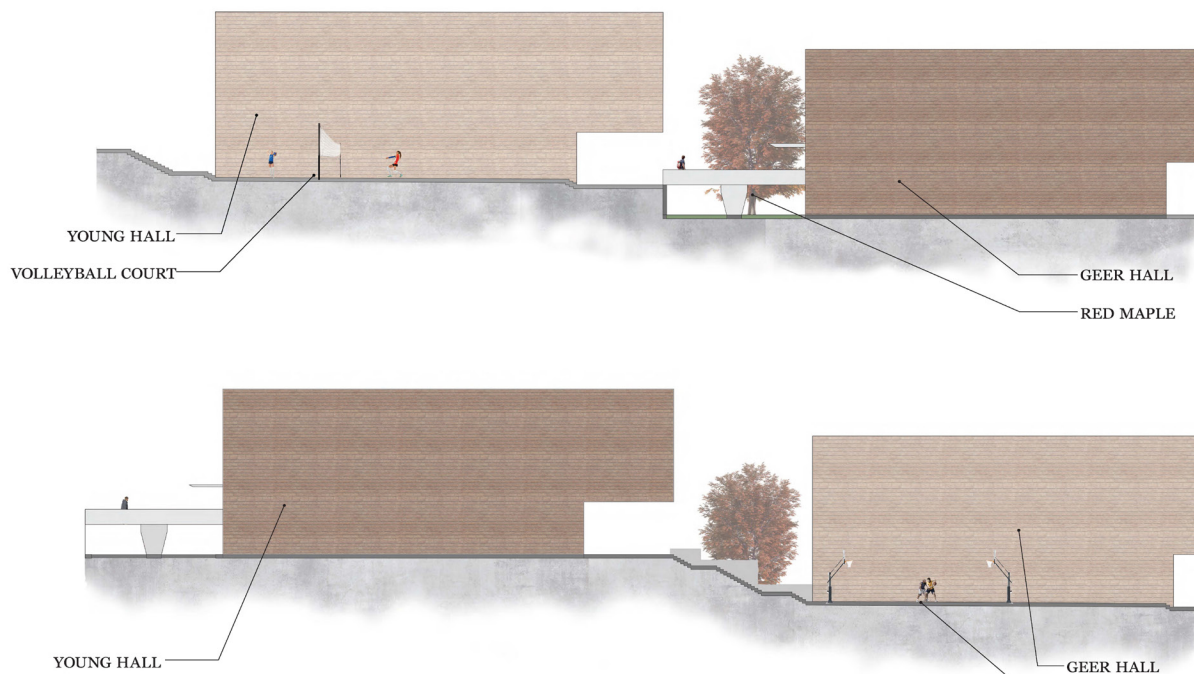
Site Research:
Geography and Context



Site Analysis: Existing Conditions



Site Analysis: Existing Conditions Section



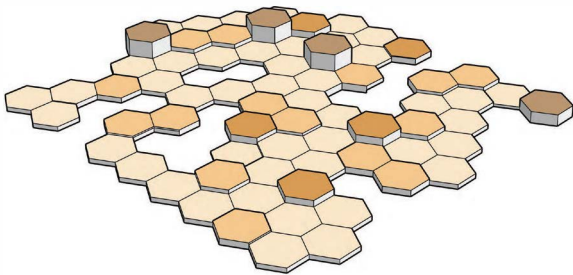
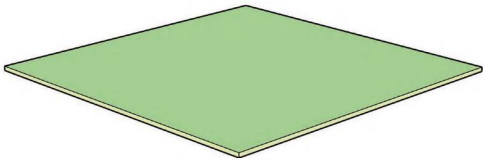
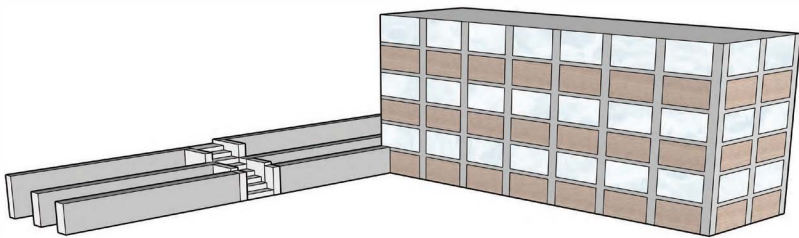
SWOT Analysis: Shoeboxes Courtyards

STRENGTHS

- Frequent Travel by residents
- Strong Midday Sun
- Outdoor Recreation Facilities

OPPORTUNITIES

- Large, open spaces
- Walking distance to stadium and dining halls
- Flat and relatively easily programmable



WEAKNESSES

- No Privacy
- No Comfortable Seating for Users
- Insufficient Lighting for safe travel at night

THREATS

- Uneven Paving
- No Lighting
- No Accessibility

SWOT Analysis: Shoeboxes Courtyards

WITH EACH OTHER OUT SIDE	WITHOUT			GOALS:
				1. Create three distinct spaces correlated to the three seasons that students will be in Clemson.
				2. Increase the total square footage of programmable space within the three courtyards.
				3. Create shelter from rain and snow to increase student use of courtyards throughout the year.
	FALL	WINTER	SPRING	
	• Early Semester • Freshmen Move In • Large Group Gatherings	• End/Early Semester • Exam Period • Little Outdoor Gathering	• Late Semester • More Free Time • Small Group Gatherings	
	• Aug. Average Temp: 89 • Sept. Average Temp: 83 • Oct. Average Temp: 74	• Dec. Average Temp: 55 • Jan. Average Temp: 52 • Feb. Average Temp: 57	• March. Average Temp: 64 • April. Average Temp: 73 • May. Average Temp: 80	

Program Analysis: Outdoor Learning and Education Shoeboxes Courtyards

Michael Tyler
LARC 8020

PRECEDENT

Outdoor Classroom
Pomona College

Notice the use of shade and seating for students to engage with the instructor.



Study Spaces

Notice the use of shade and covered seating for students studying. The covering umbrellas are important for protecting electronic devices from rain.



**Outdoor
Tours**
UC Davis

Students going on a tour of campus to learn about trees and shrubs in the landscape. Notice the pathway.



OPPORTUNITIES

Shelter

Creating shelter for both rain and sunlight will allow for student use in most weather conditions.
Is it possible to create a shelter from temperature and wind?



Small Spaces

Small spaces allow for both small groups and individuals to study together. It would be valuable to create spaces of different values for maximum uses.



Interesting Features

Adding interesting features (plants, art, etc.) incentivizes tours and sightseeing of the space.
It would increase usage and value of the space.



Program Analysis: Outdoor Learning and Education

Shoeboxes Courtyards

Michael Tyler
LARC 8020



Precedent Study: Vera List Courtyard

WHO:

- Designed by Michael Van Valkenburgh and Associates
- Art by Martin Puryear
- For students of The New School

WHAT:

- The goal was to build a courtyard between two buildings that provides spaces for walking, sitting, and large gathering.
- Utilizes ramps and stairs to bridge the gap between two buildings at different elevations.
- The use of three art pieces by Martin Puryear for both visual interest and function.



WHY:

- The formerly just transitional space is now an inviting place.
- Utilizing multiple seating options and carefully selected plant material, the courtyard offers space to sit or gather in the in between.

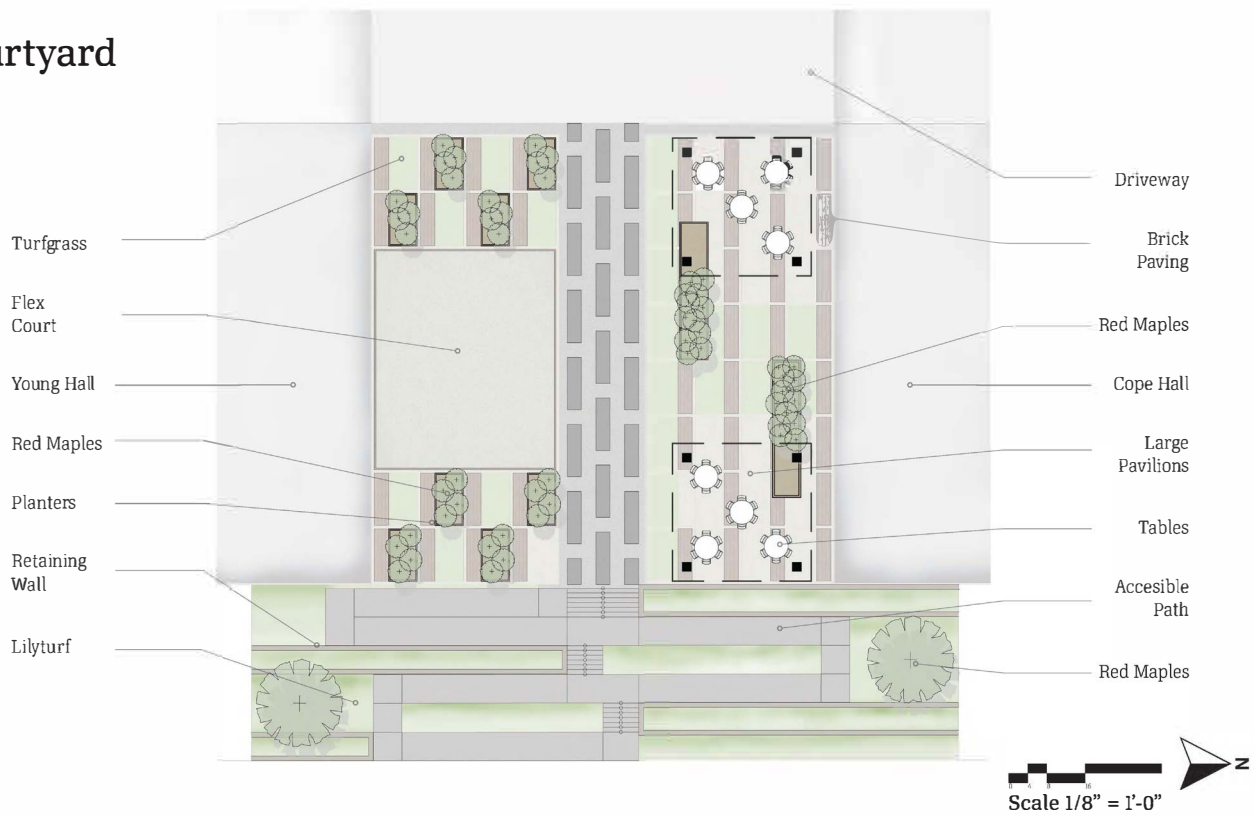
HOW:

- A circular ramp connects the upper level with the ground level entrance providing for handicap accessibility.
- Red Maples and a groundcover of Pigmy Bamboo provides color and softens the dark concrete corridors.
- Built at a human scale in 7000 square feet

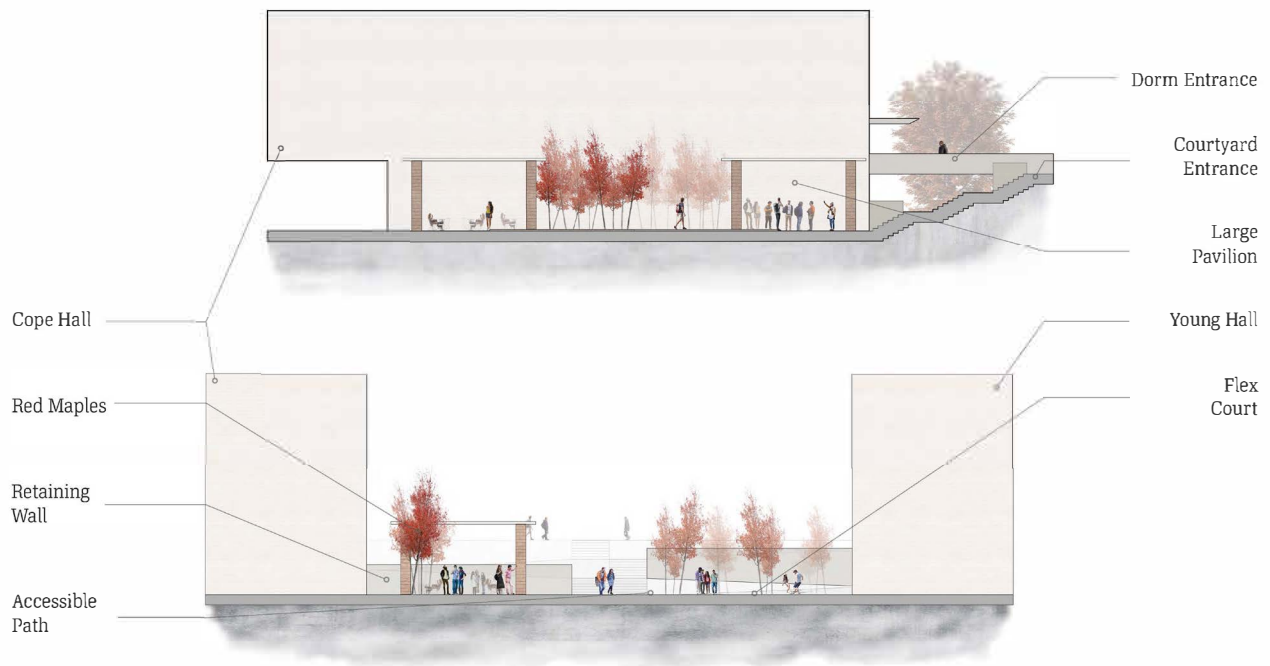
Master Plan



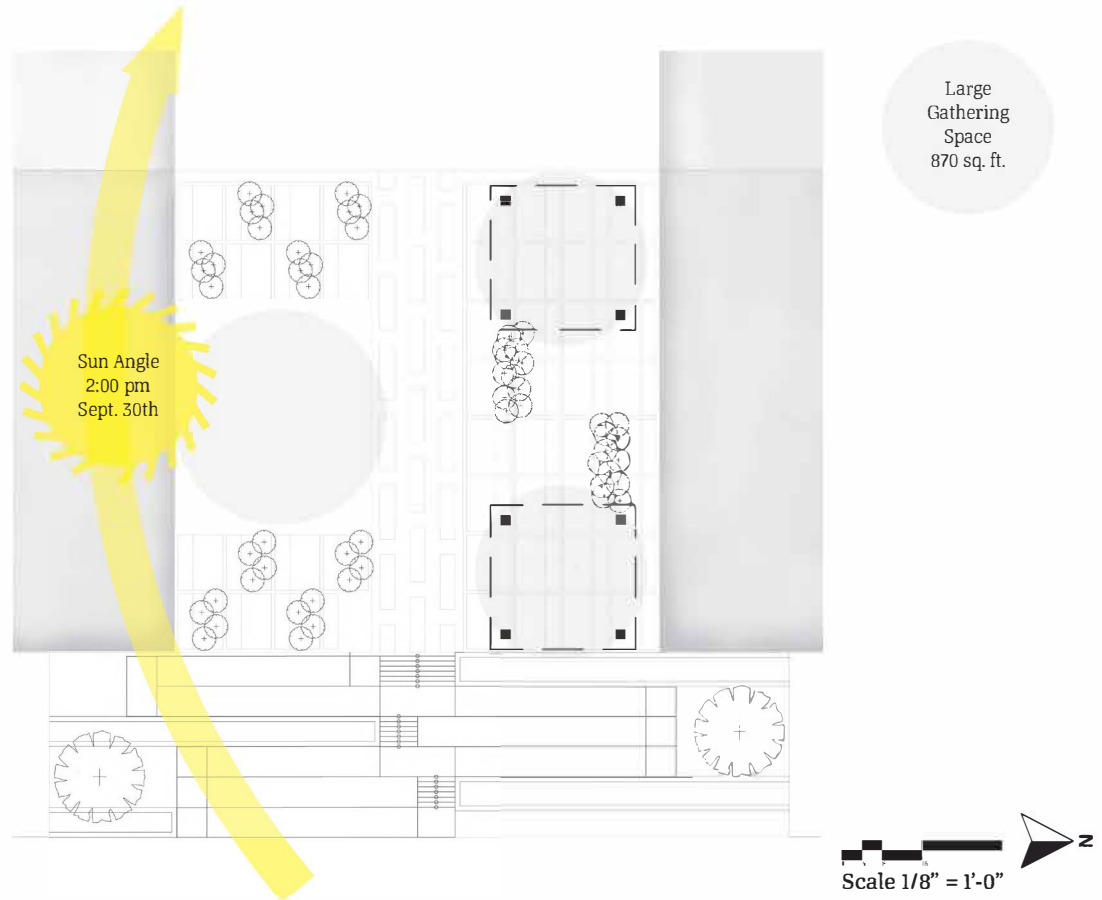
Site Design: Fall Courtyard



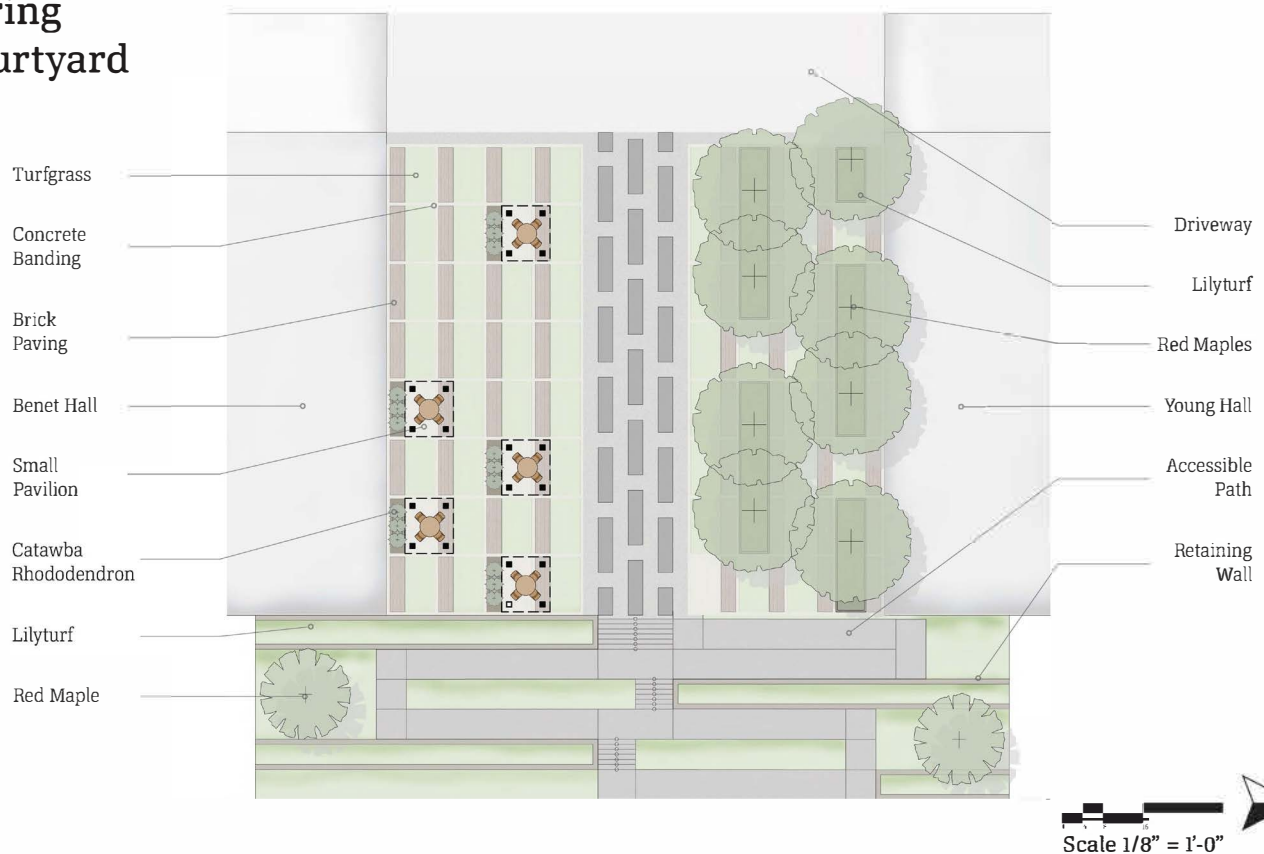
Site Design Sections: Fall Courtyard



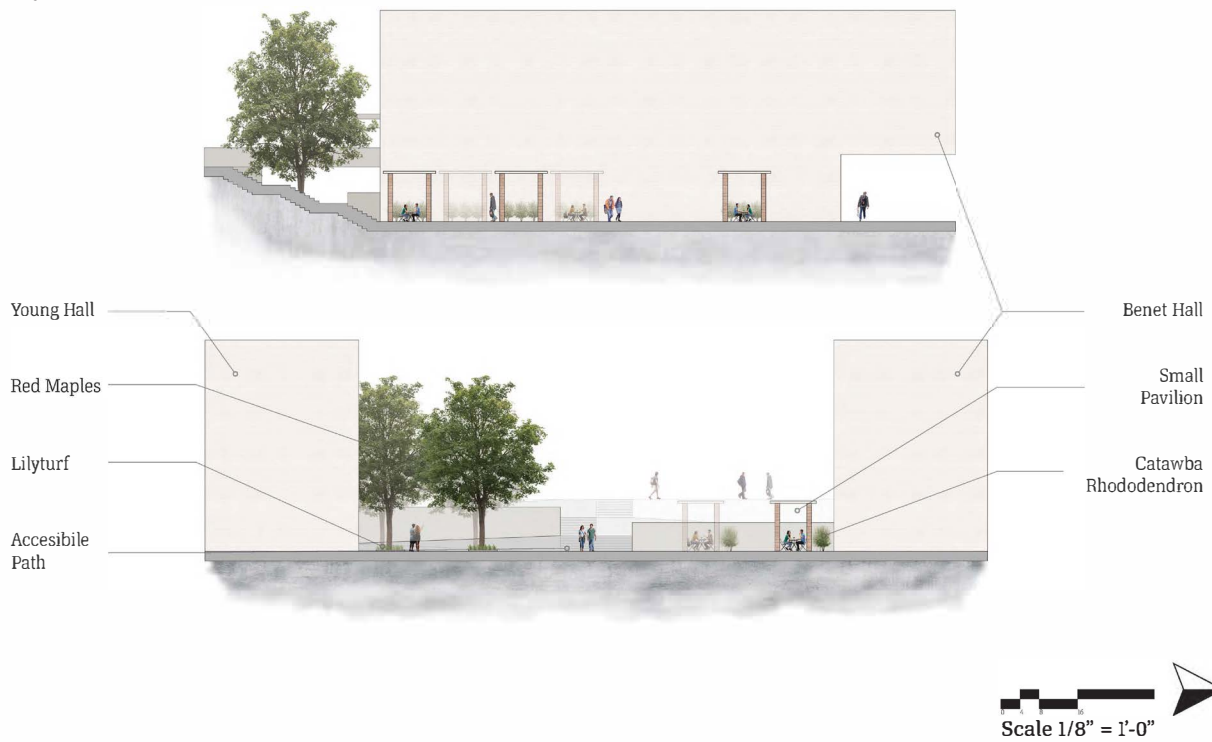
Site Diagram: Fall Courtyard



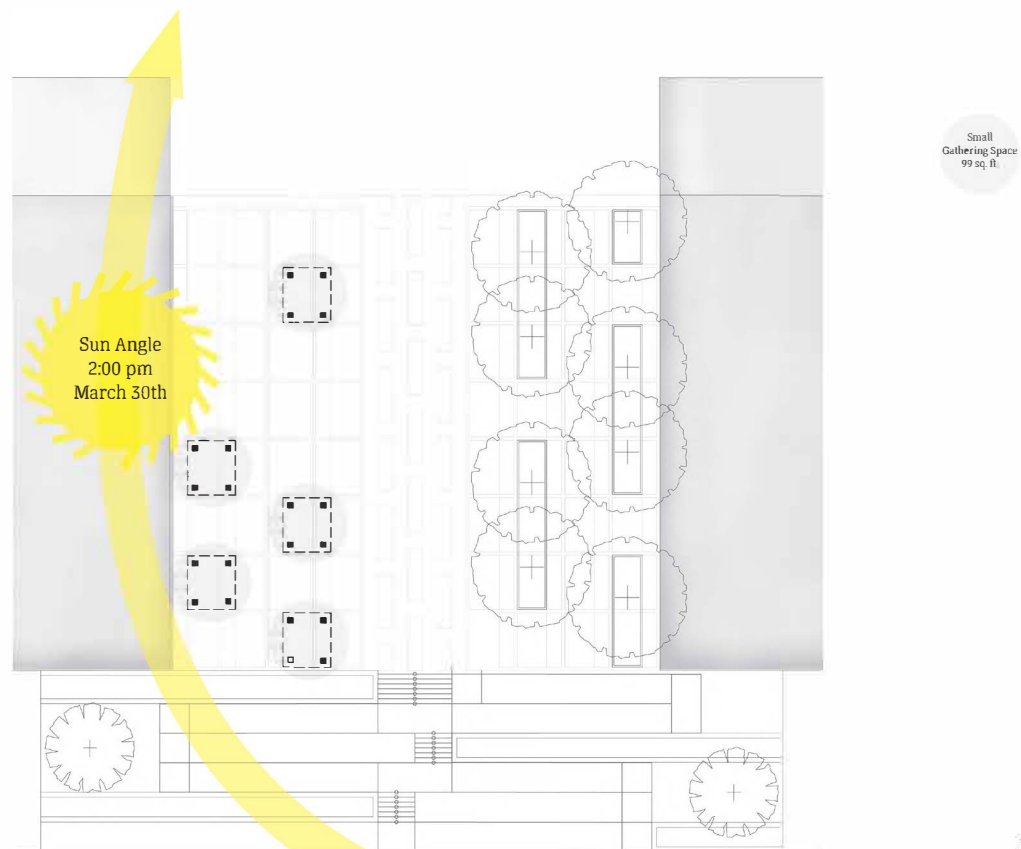
Site Design: Spring Courtyard



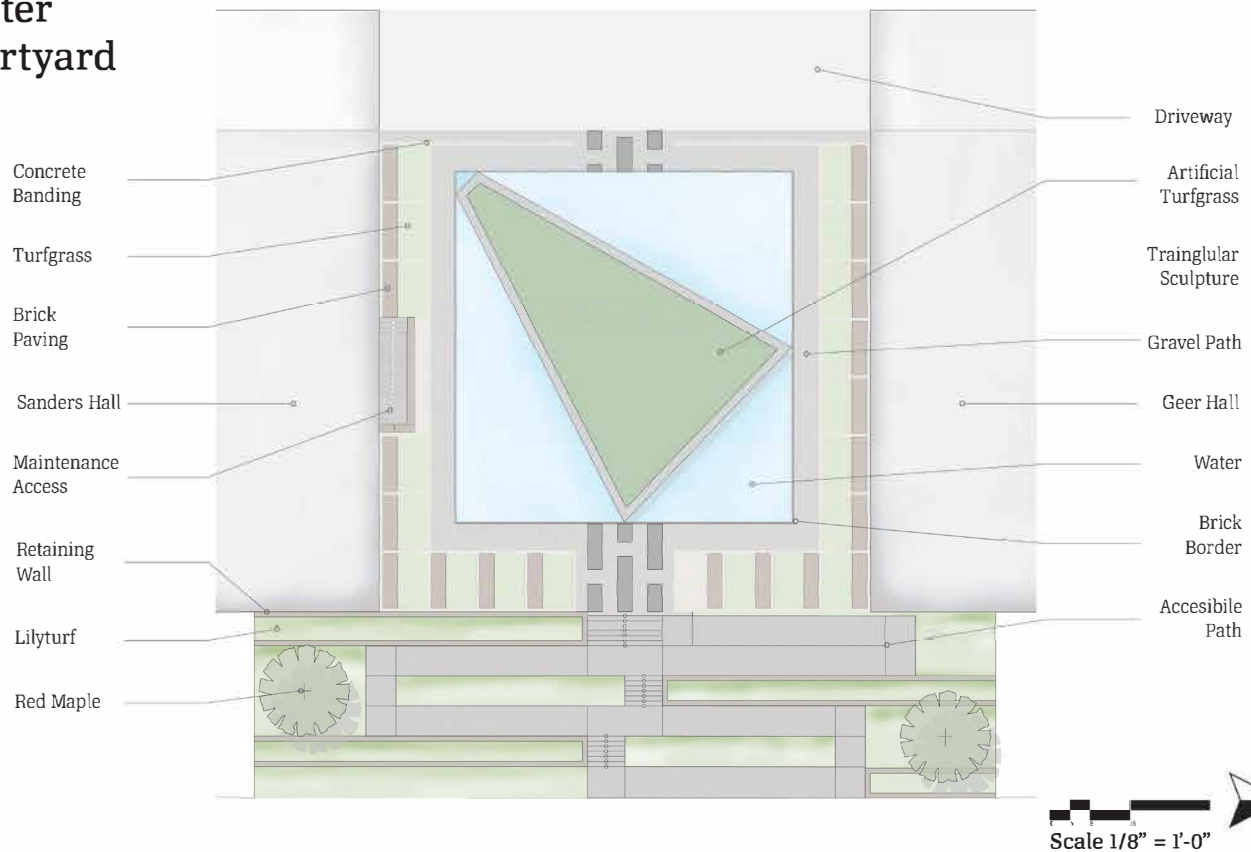
Site Design Sections: Spring Courtyard



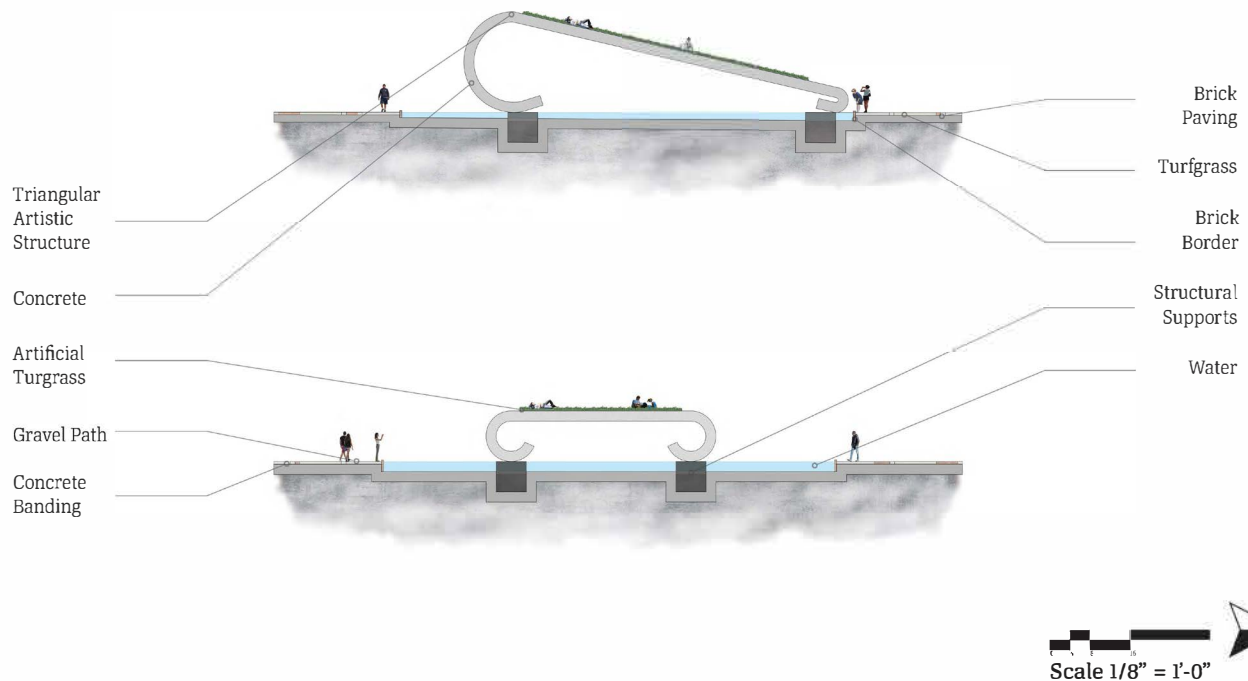
Site Diagram: Spring Courtyard



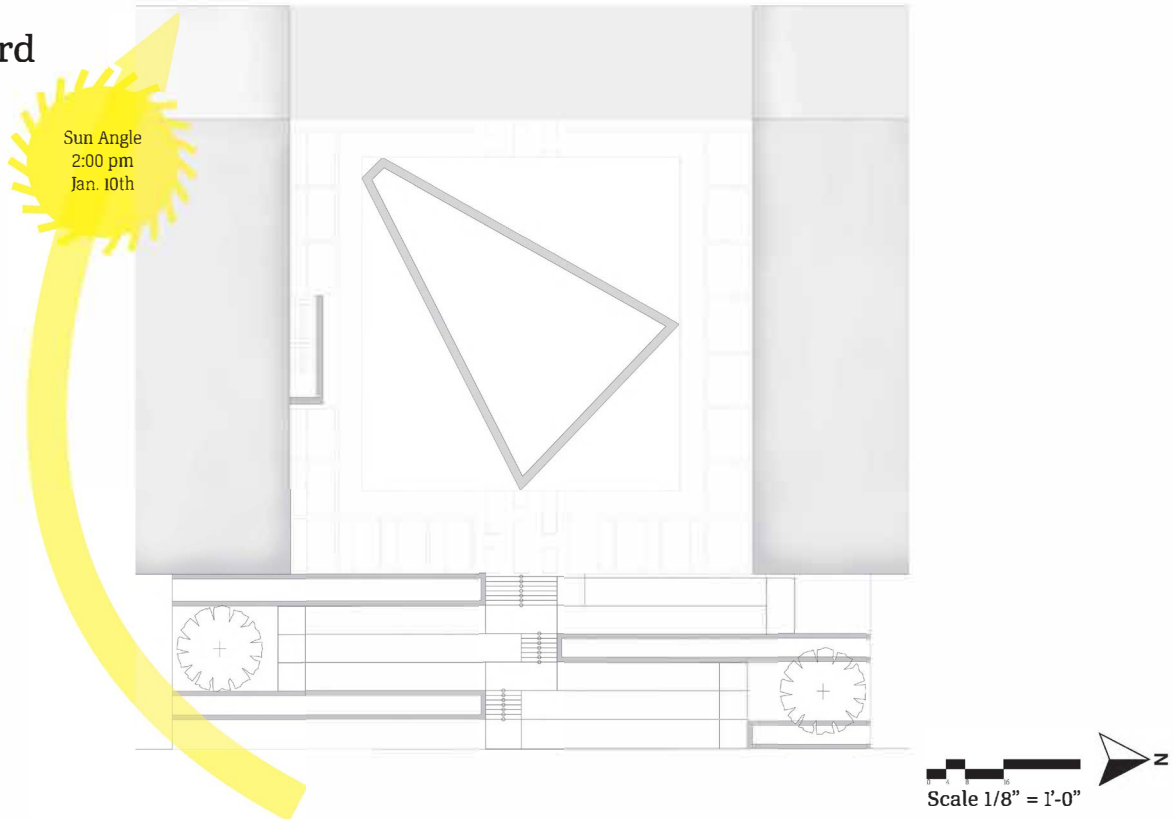
Site Design: Winter Courtyard



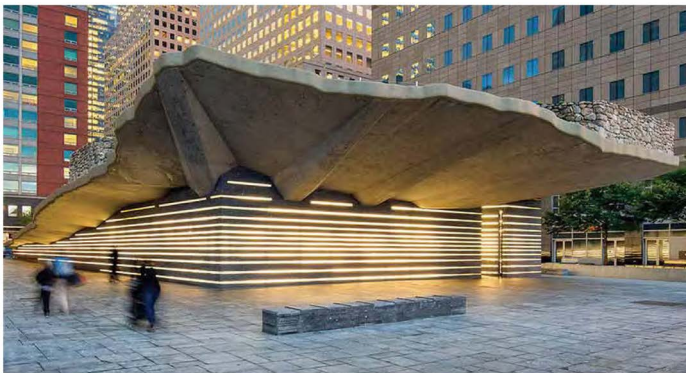
Site Design Sections: Winter Courtyard



Site Diagram: Winter Courtyard



Examples of Precedent



Shoebox Courtyards

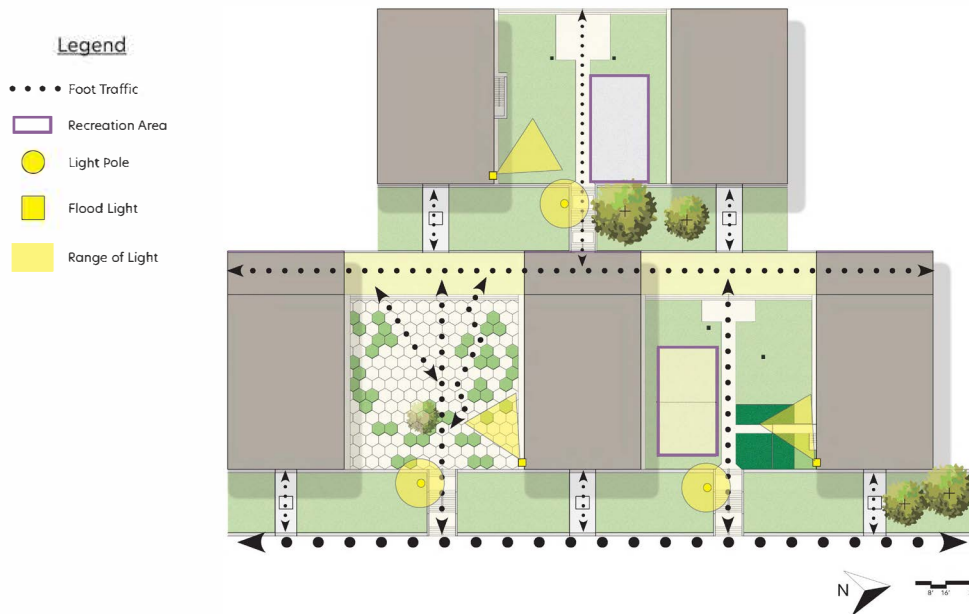
Spring 2023 Studio Final Project



Table of Contents

1. Site Analysis
2. SWOT Analysis
3. Site Section: Existing Conditions
4. Site Research: Geology
5. Site Research: Hydrology
6. Site Research: Outdoor Relaxation
7. Master Plan
8. The Experience

Site Analysis



Topics

1. Accessibility:

The five shoebox buildings are dorms for freshman students and there is only accessibility throughout the courtyards by walking. Currently there are no ramps to navigate this area other than on the outside of the study area.

2. Recreation:

In the courtyards, there is a basketball and volleyball court for recreation purposes.

3. Lighting:

With just three light posts and 3 building flood lights (one per courtyard), there is not enough lighting in the evening to create a safe environment for people navigating through the area.

SHOEBOX COURTYARDS

1

SWOT Analysis

Strengths	Weaknesses
Close to stadium and dining hall Large areas for congregation Balance of sun to shade	White noise from residential dorm buildings No place to sit or avoid inclement weather No trashcans or recycling
Opportunities	Threats
Buildings around courtyard are residential Part-sun to part-shade Basketball and volleyball court for recreational activity	Poorly lit area Fall hazard at entrance to maintenance stairs Bike Theft, poor security

GOALS

1. To create a space that is accessible to all users while promoting connectivity and passive recreation.

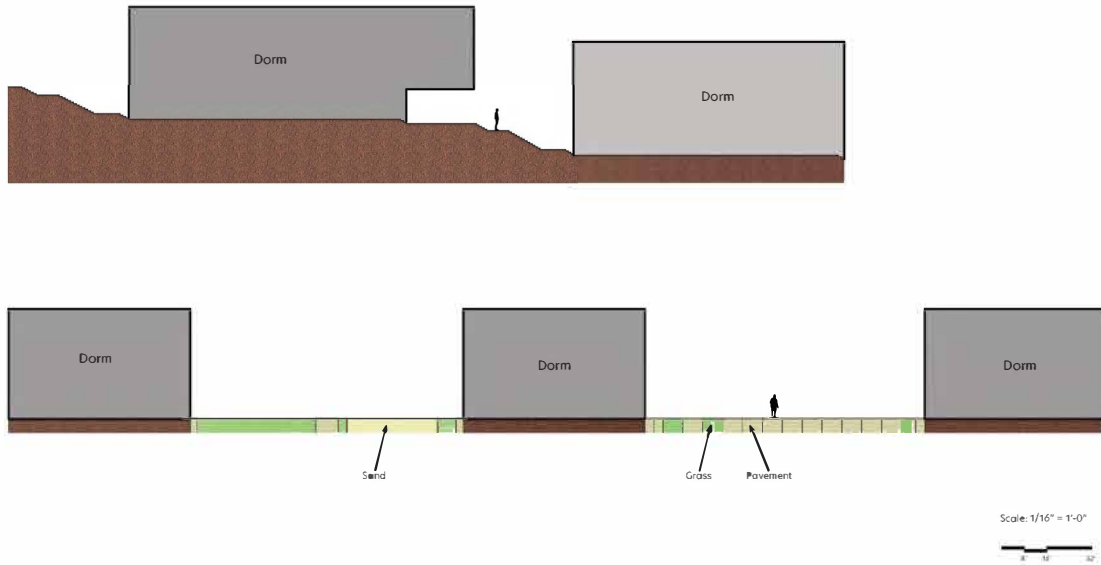
2. To create a space that represents native landscapes from the upper SC region for the user's enjoyment and education.



SHOEBOX COURTYARDS

2

Site Section: Existion Conditions



SHOEBOX COURTYARDS

3

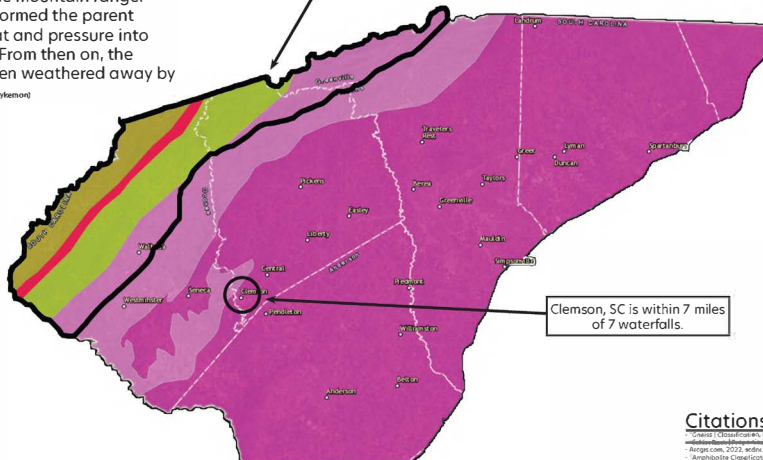
Site Research: Geology of Upstate SC

Upstate SC is home to the southern-most part of the Appalachian Mountains. Regarded as one of the oldest mountain ranges in the world, some rocks can be dated back to over one billion years ago. Between 500 and 300 million years ago two tectonic plates collided resulting in the creation of the mountain range. This collision transformed the parent rock present by heat and pressure into metamorphic rock. From then on, the mountains have been weathered away by natural processes. (pyllemor)

Waterfall Belt
The formation of the Appalachian Mountains has created the environment for waterfalls to occur. There are an estimated 360 waterfalls in SC with over 90% of those falling within the waterfall belt. ("Map of Waterfalls in South Carolina, United States - World Waterfall Database")

Thrust Sheets of Upstate SC

- Six Mile Thrust Sheet
- Walhalla Thrust Sheet
- Chauga Belt
- Blue Ridge
- Brevard Fault Line



Common Metamorphic Rocks in Upper SC



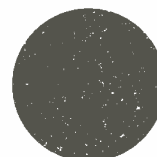
Gneiss

Gneiss is a coarse-grained metamorphic rock. Gneiss is applied as the overwhelming stone in road production and landscaping tasks. (Gneiss Classification, Composition, Characteristics, Formation, Uses)



Schist

Schist is a slightly finer grained metamorphic rock when being compared to gneiss. Schist is applied as rock walls or decorative stones. (Schist Rock | Properties, Formation, Occurrence and Uses)



Amphibolite

Amphibolite is a coarse-grained metamorphic rock. Amphibolite uses include road construction, jewelry, and architectural. (Amphibolite Classification, Composition, Formation and Uses)

Citations

"Gneiss Classification, Composition, Characteristics, Formation, Uses." Geology Science, 15 Apr. 2018. <https://geologyscience.com/rocks/metamorphic-rocks/gneiss/>
 Accessed 29 Apr. 2023.
 "Schist Rock | Properties, Formation, Occurrence and Uses." Geology Science, 15 Apr. 2018. <https://geologyscience.com/rocks/metamorphic-rocks/schist/>
 Accessed 29 Apr. 2023.
 "Amphibolite Classification, Composition, Formation and Uses." Geology Science, 15 Apr. 2018. <https://geologyscience.com/rocks/metamorphic-rocks/amphibolite/>
 Accessed 29 Apr. 2023.
 "Upstate South Carolina." Encyclopedia Britannica, 2019. <https://www.britannica.com/place/upstate-south-carolina>
 Accessed 29 Apr. 2023.
 "Waterfall Belt." Encyclopedia Britannica, 2019. <https://www.britannica.com/place/waterfall-belt>
 Accessed 29 Apr. 2023.

SHOEBOX COURTYARDS

4

Site Research:

Hydrology of Upstate SC

Watersheds of SC



Popular Water Features in Upstate SC



Waterfalls

The Piedmont region of SC is a waterfall hotspot. With an estimated 360 waterfalls in SC. A high percentage are found in the three counties of Greenville, Oconee, and Pickens.
Waterfalls in South Carolina, United States - World Waterfall Database

Rivers provide opportunities for people to enjoy the aesthetic beauty of nature. The Reedy River in Greenville, SC is a popular area for people to take part in passive recreation along the river that cuts through the downtown area.



Rivers



Lakes

Since major upstate rivers were dammed up to provide hydroelectric energy, lakes formed providing a popular recreation activity for surrounding people. Popular lakes in the upstate include Lake Hartwell, Lake Keowee, and Lake Jocassee.

Citation
"Waterfalls in South Carolina, United States - World Waterfall Database".
"The Reedy River in Greenville, SC is a popular area for people to take part in passive recreation along the river that cuts through the downtown area."
"Since major upstate rivers were dammed up to provide hydroelectric energy, lakes formed providing a popular recreation activity for surrounding people. Popular lakes in the upstate include Lake Hartwell, Lake Keowee, and Lake Jocassee."
Source: South Carolina Water Resources [Public] | Clemson University, South Carolina. www.clemson.edu/public/water-resources/

SHOEBOX COURTYARDS

5

Site Research:

Outdoor Relaxation

Being outdoors is linked to many health benefits that has supported wellness in the body and mind. Users simply have to be present in nature to reap the benefits it provides.

Benefits

1. **Relieves stress**
2. **Physical wellness** - shown to increase life expectancy, improve sleep quality, and reduce cancer risk.
3. **Mental wellness** - lower the risk of depression, restore and strengthen our mental capacities, increasing focus and attention.

Types of Outdoor Relaxation Activities



Walking



Yoga



Sitting



Swimming

Sounds Associated With Outdoor Relaxation

Pink Noise (consistent sound frequency)



Flowing Water



Rustling Trees



Waves



Birds

Brown Noise (deeper bass-like tone)



Waterfalls

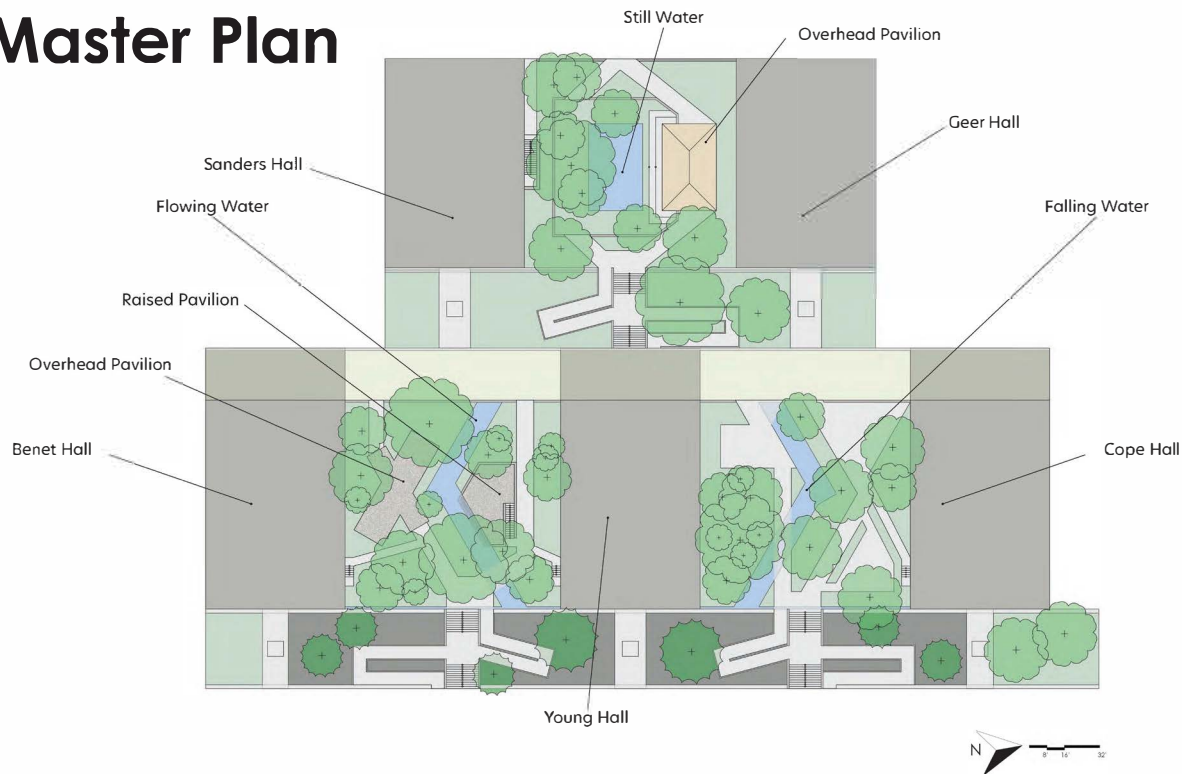


Heavy Rainfall

SHOEBOX COURTYARDS

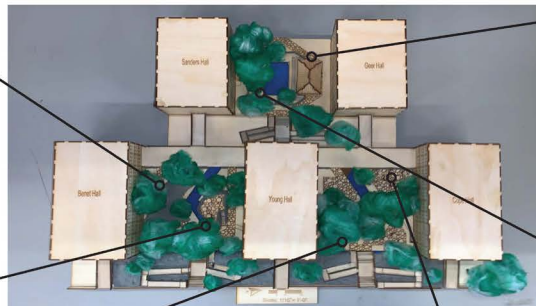
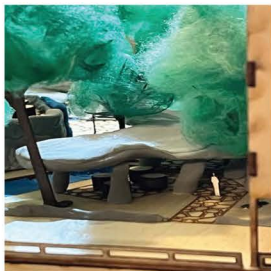
6

Master Plan



SHOEBOX COURTYARDS THE EXPERIENCE

7



SHOEBOX COURTYARDS

8

ADA Circulation, Congregation, Water Flow



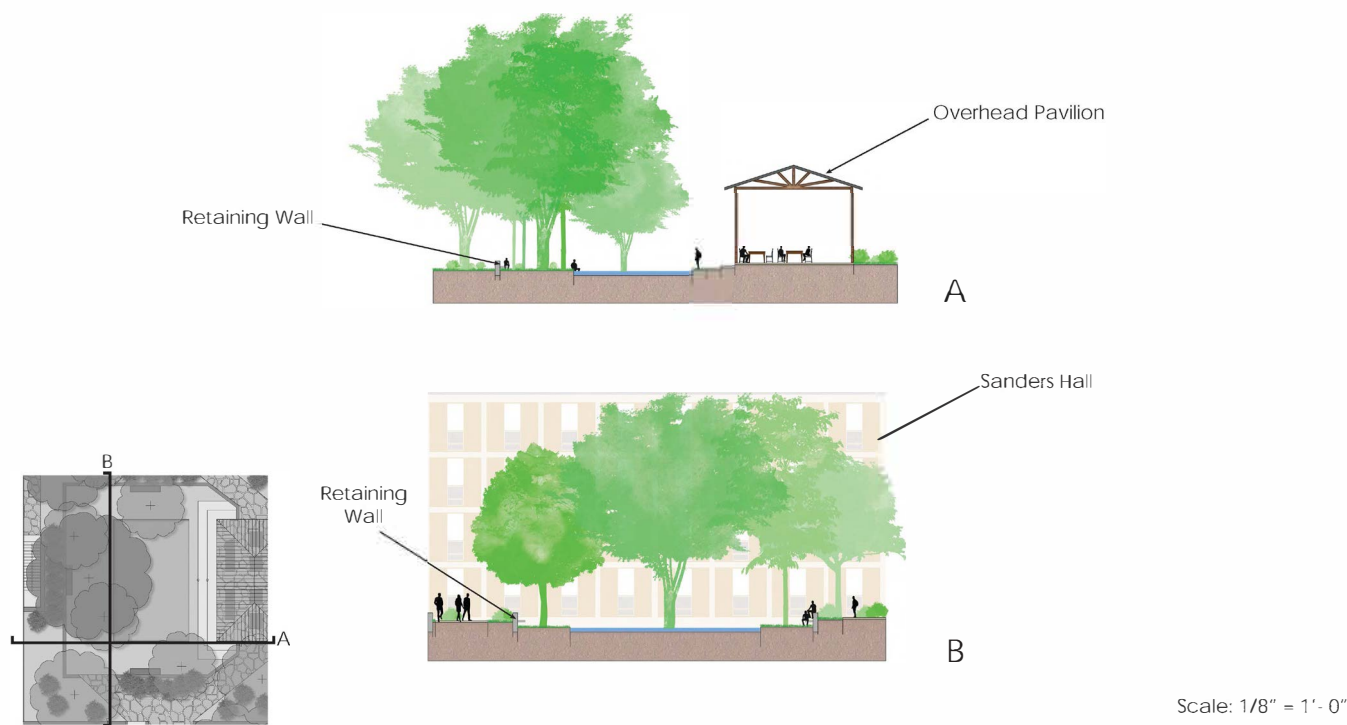
Site Design: Upper Left Courtyard



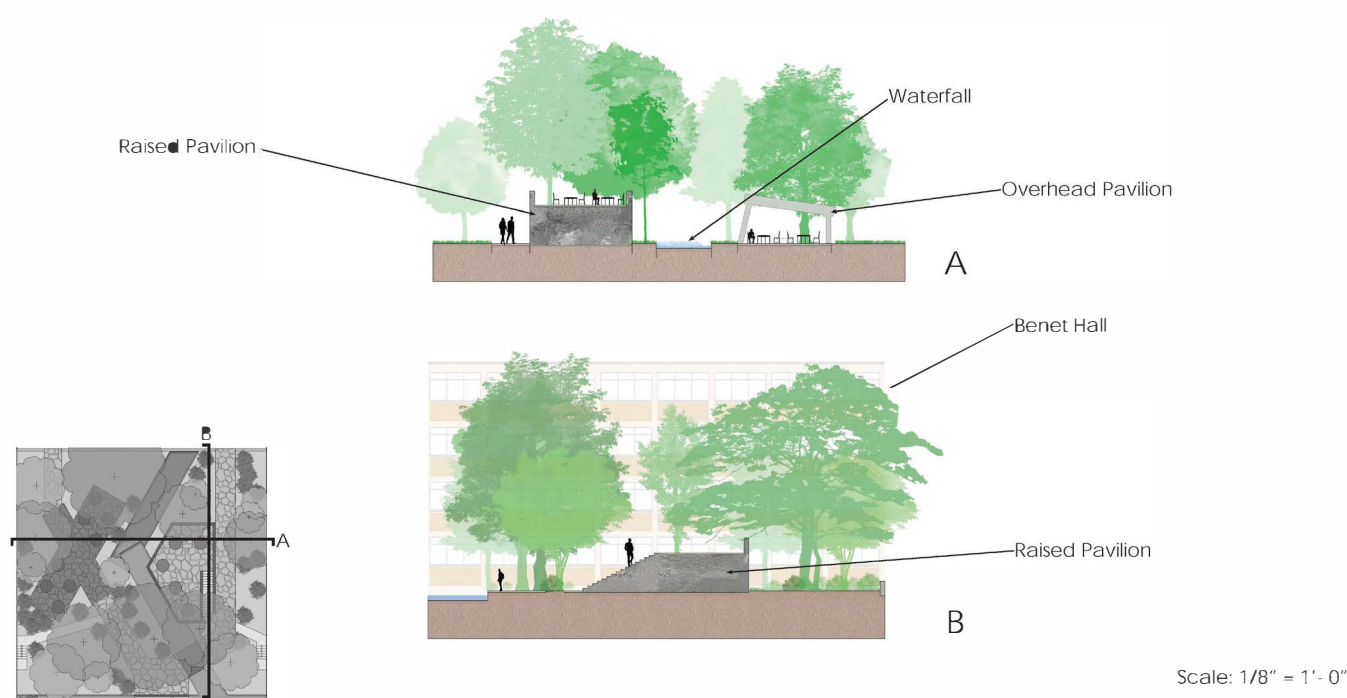
Site Design: Upper Right Courtyard



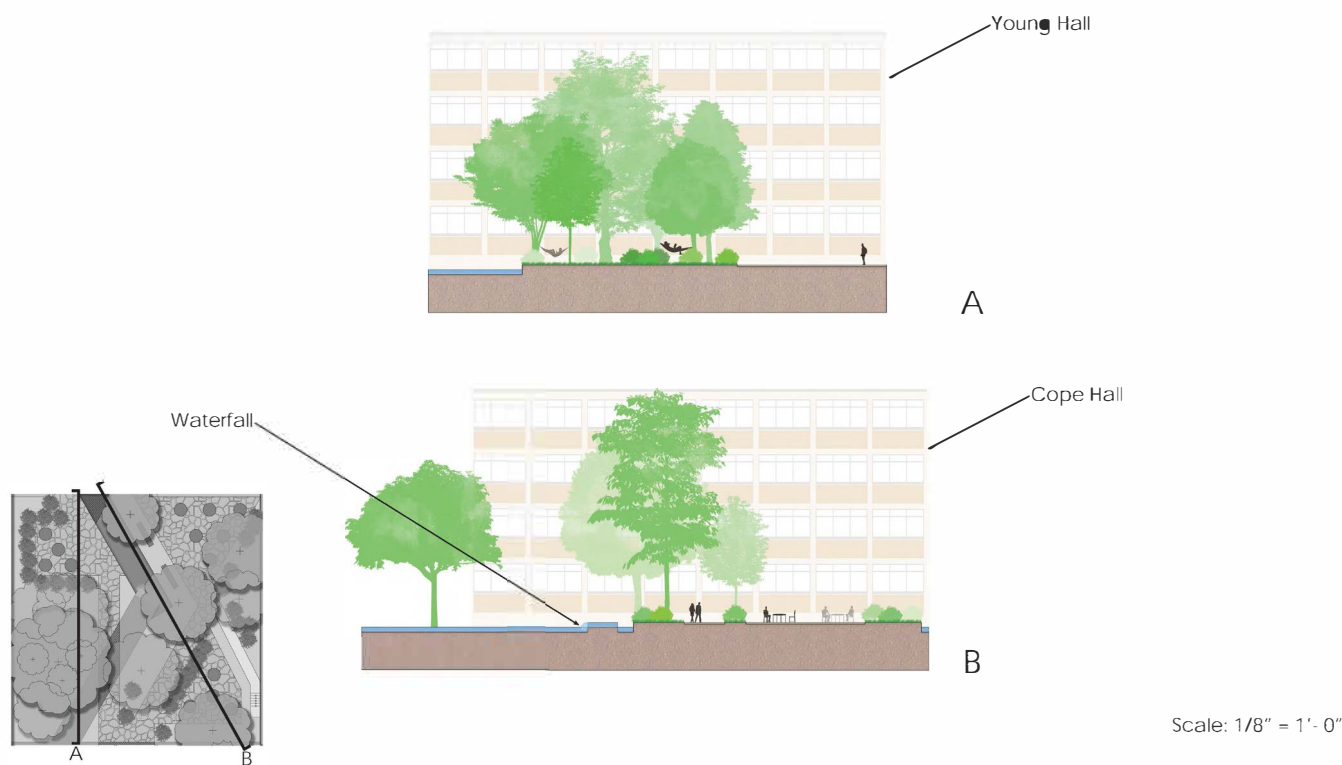
Site Design Section: Lower Courtyard



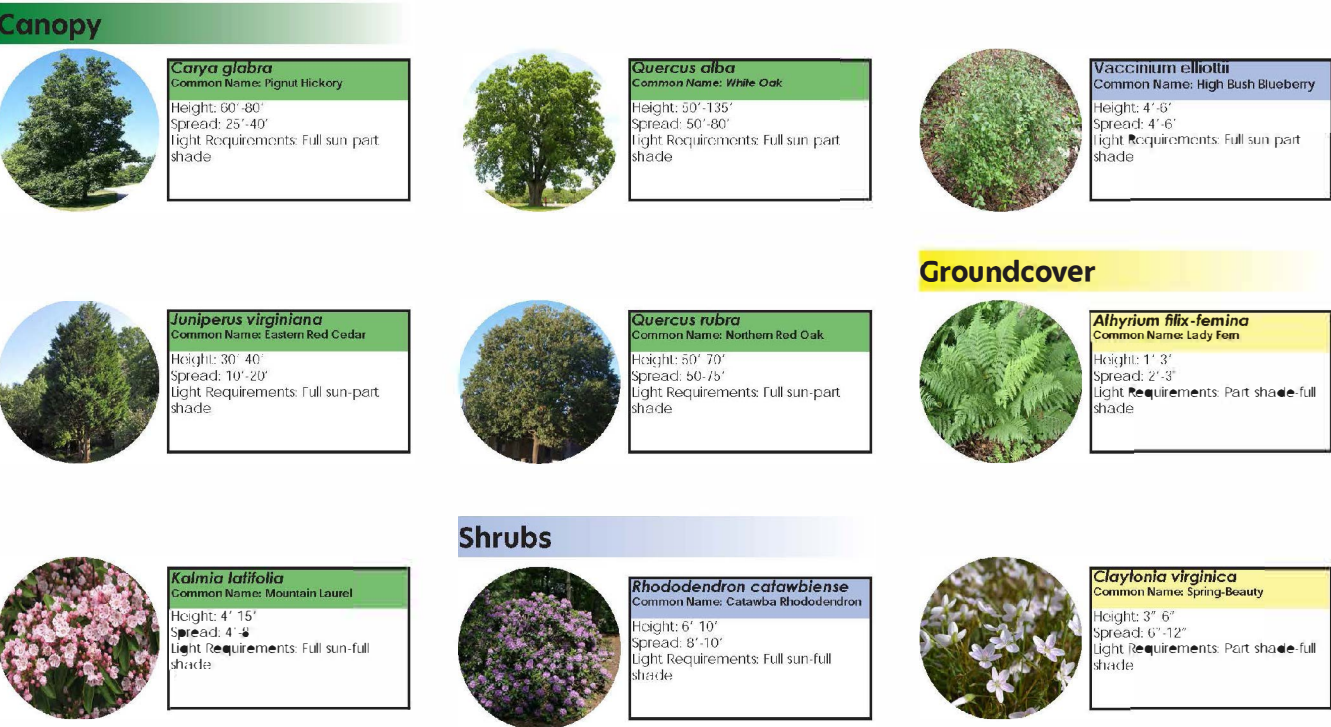
Site Design Section: Upper Left Courtyard



Site Design Section: Upper Right Courtyard



Plant Palette



LANDSCAPE ORIENTATION II

Semester Profolio

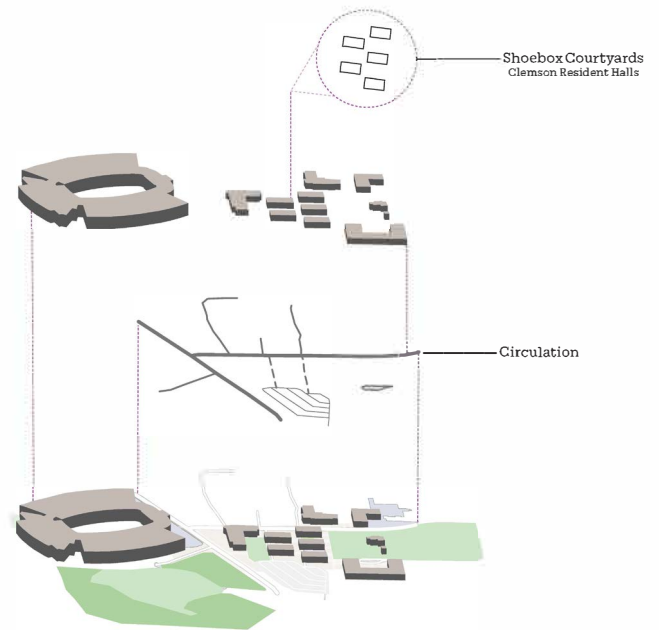
Lupe Franchi
LARC 8020- Spring 2023

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Lupe Franchi

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Shoebox Courtyard

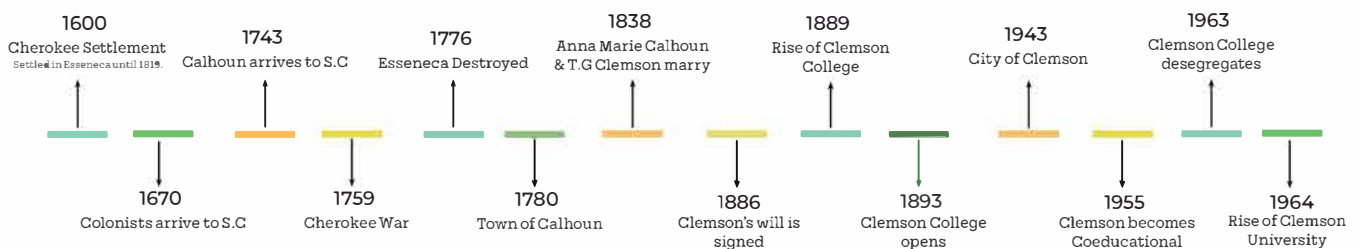


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Portfolio

Site Research

History & Culture of Clemson University



"Rock the Block" - Fall



"Christmas Parade" - Winter



"Welcome Back Parade" - Fall



"Picnic in the Park" - Fall & Spring

Sources: <https://www.clemson.edu/about/traditions.html>, <https://www.clemson.edu/about/history/timeline>.

Lupe Franchi

Portfolio

SWOT Analysis & Concept

Concept - Sense of Place



Goals

- 1) Creating a place that promotes the unique character of the area and its residents.
- 2) Increasing visibility through the promotion of native ecology.

Opportunities

- 1) Green Coverage.
- 2) Location.
- 3) Educational/Recreational.

Constrains

- 1) Topography.
- 2) Preconceptions.
- 3) Safety & Security issues.

Strenghts

- Strategic Location
 - Site is close to: Dining Halls, Stadium, and near center of campus.
- Area is mainly used by students.

Weaknesses

- Noise issues.
- Smell & Lighting issues.
- Lack of privacy for residents.
- Lack of comfortable seating.
- No coverage from weather.

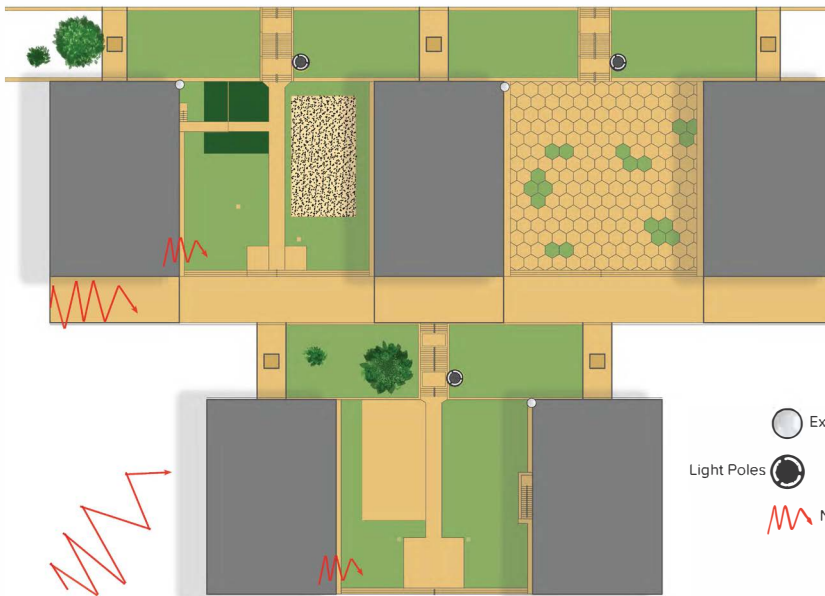
Opportunities

- Location
 - Recreational
 - Educational
- Total area.

Threats

- Safety issues
 - Lack of fencing, buffer zone, physical barrier on site.
- Lack of accessibility
 - Not ADA compliant

Site Analysis



Noise surrounding the site

1. Death Valley Stadium
2. Traffic from Fort Hill St. & Parking lot 8
3. Building Vents

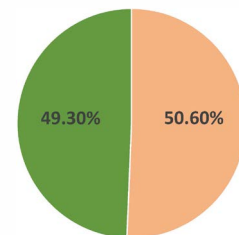
Lighting conditions

- 3 lighting poles
- 3 exterior lights

Perception

"As the oldest dorms that students still live in on Clemson's campus,...they are not the most attractive buildings on campus, inside or out, so they get a lot of hate." (Anywhere but the Shoeboxes, 2019)

Shoebox Cover Class %

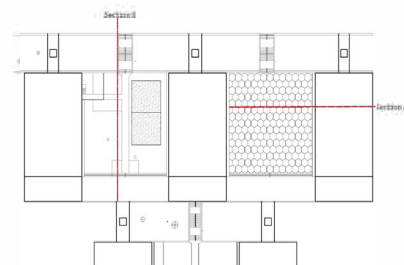
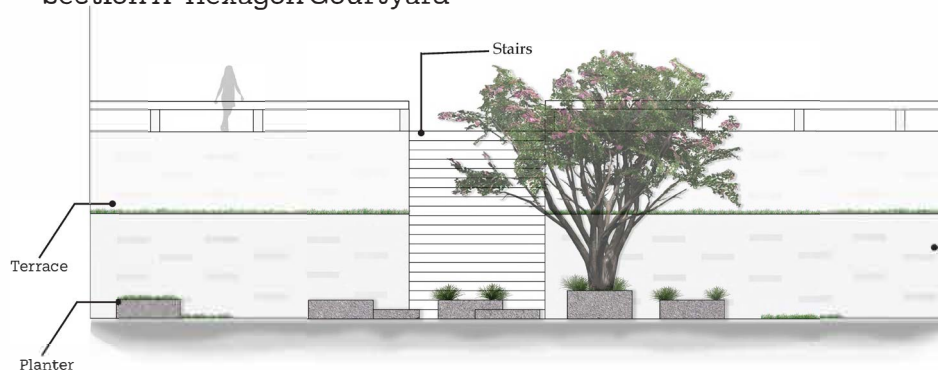


Impervious Surface Pervious Surface

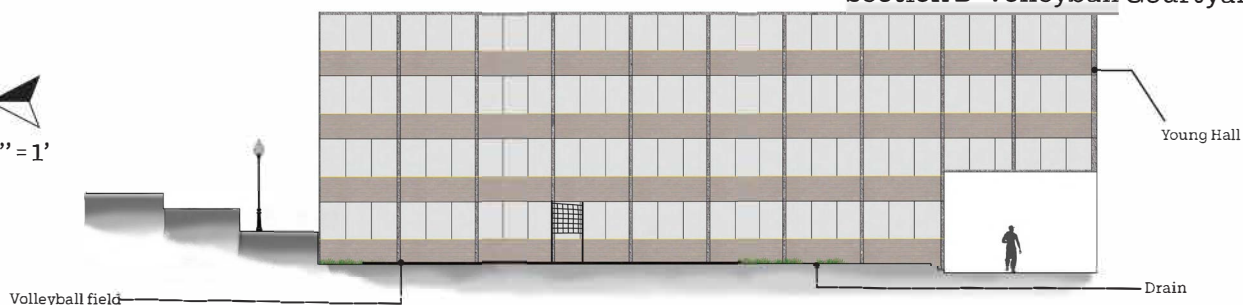


Existing Condition Site Sections

Section A- Hexagon Courtyard



Section B- Volleyball Courtyard



Lupe Franchi

Portfolio

Program Analysis

Food & Beverage

There are many activities and events that could incorporate food & beverage options.

Dimensions of Mobile Caterer:

- Food Trailers = 8.5"x20'
- Food Trucks = 7"x20'
- Food Carts = 4'x7'

Dimensions of Farmers Market/Student Org.:

- Tent/Booth = 10'x10'

Dimensions of seating:

- Solar Picnic Tables = 5.7"x8'
- Bar Height Table = 55.1"L x 15.7"W x 41.3"H
- Bar Height Chairs = 15.5" x 29.5"

Mobile Caterer



Food Trailers



Food Trucks



Food Carts

Seating



Solar Picnic Table



Wood Swings



Bar Height Table

Farmers Market/ Student Org. Market



Student Organization Bake Sale

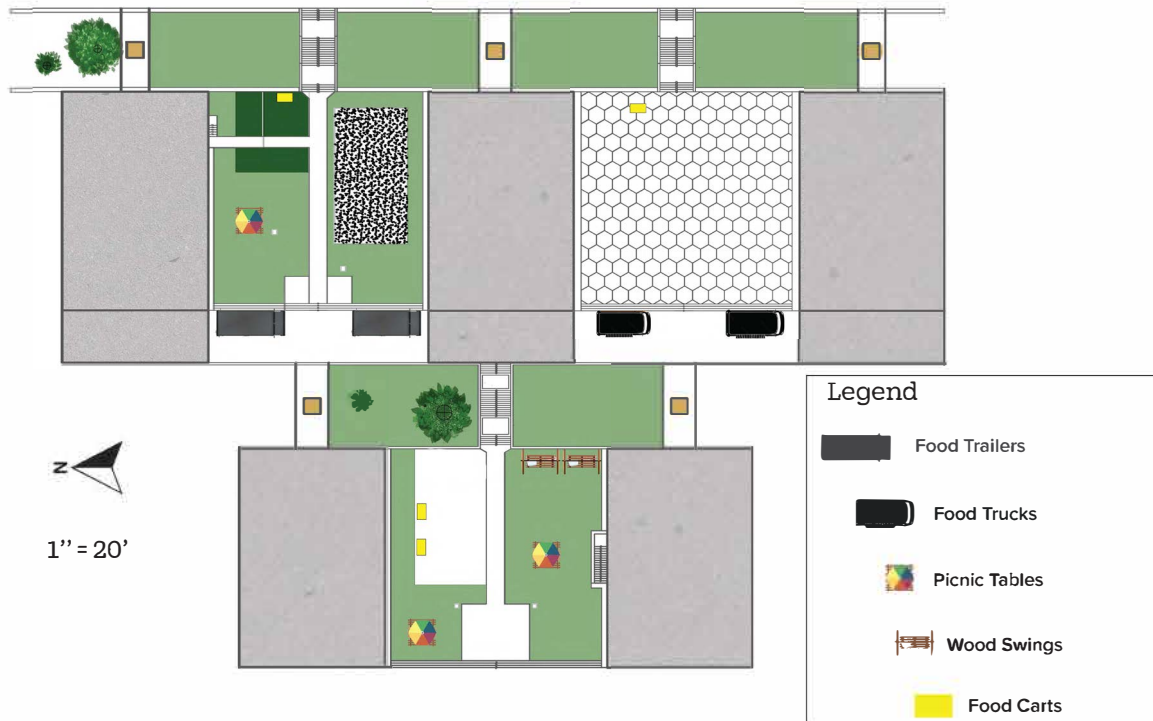


Local Farmers

Lupe Franchi

Portfolio

Program Analysis (Existing Condition)



Lupe Franchi

Portfolio

Precedent Study

Size/Scale

- 27.5 acres
- Campus, City

Designed by

- Architect: KieranTimberlake
- Landscape Architects: OLIN & Terra Dynamics
- Interior Designer: Graham Baba

Users

- Student
- Faculty & Staff
- Visitors & Locals



Lupe Franchi

University of Washington North Campus Housing



Location: Seattle, WA.

Year built: 2022

Portfolio

Precedent Study

Mission/Goal

- Integrating cultural and sylvan elements.
- Maintain the scenic views and natural character of the site.
- Create a meaningful central destination that supports its residents and campus-wide student life.

Experience

- Study and socialize with the natural landscape of the Pacific Northwest.
- Forest-like canopy of trees and iconic views from the eastern ridge, overlooking the Cascade Mountains and Union Bay.

Programs

- Intramural field
- Student lounges
- Student information help center
- Learning facilities & tutoring center
- Conference and event space
- McCarty Innovation Learning Lab (MILL).



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Portfolio

Precedent Research



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The Circus Trees at Gilroy Gardens



Location: Gilroy, CA.

Year built: 1947.

Portfolio

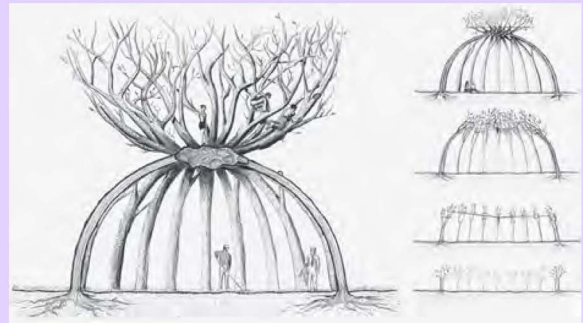
Precedent Research



Jordan's backyard

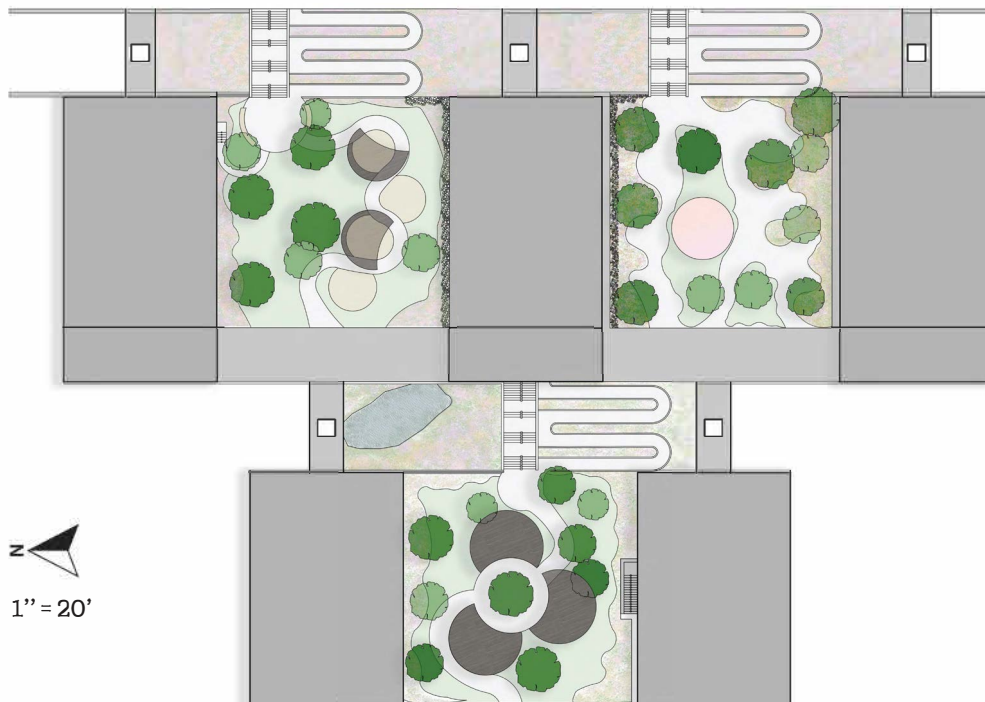
Lupe Franchi

The Patient Gardener by Visiondivision



Portfolio

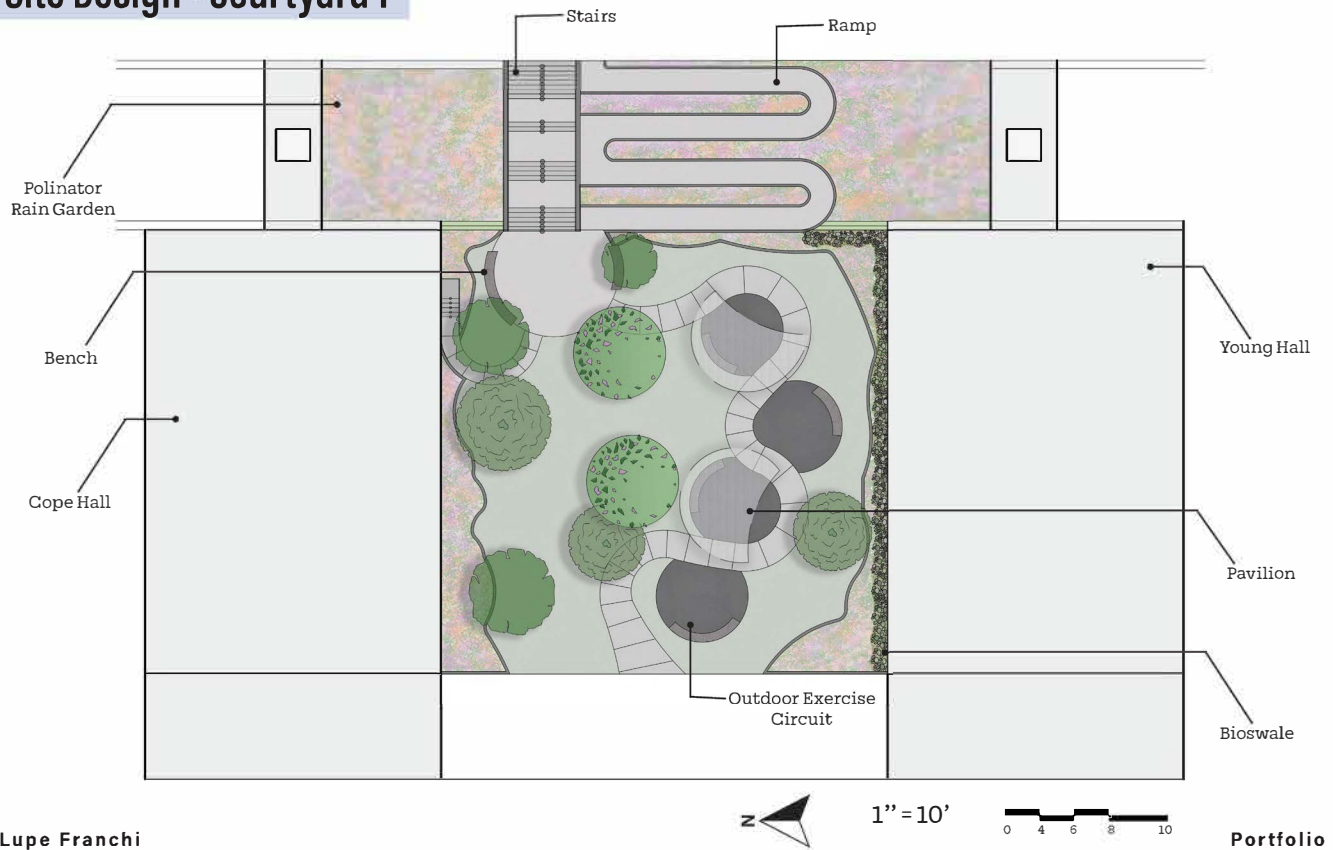
Master Plan



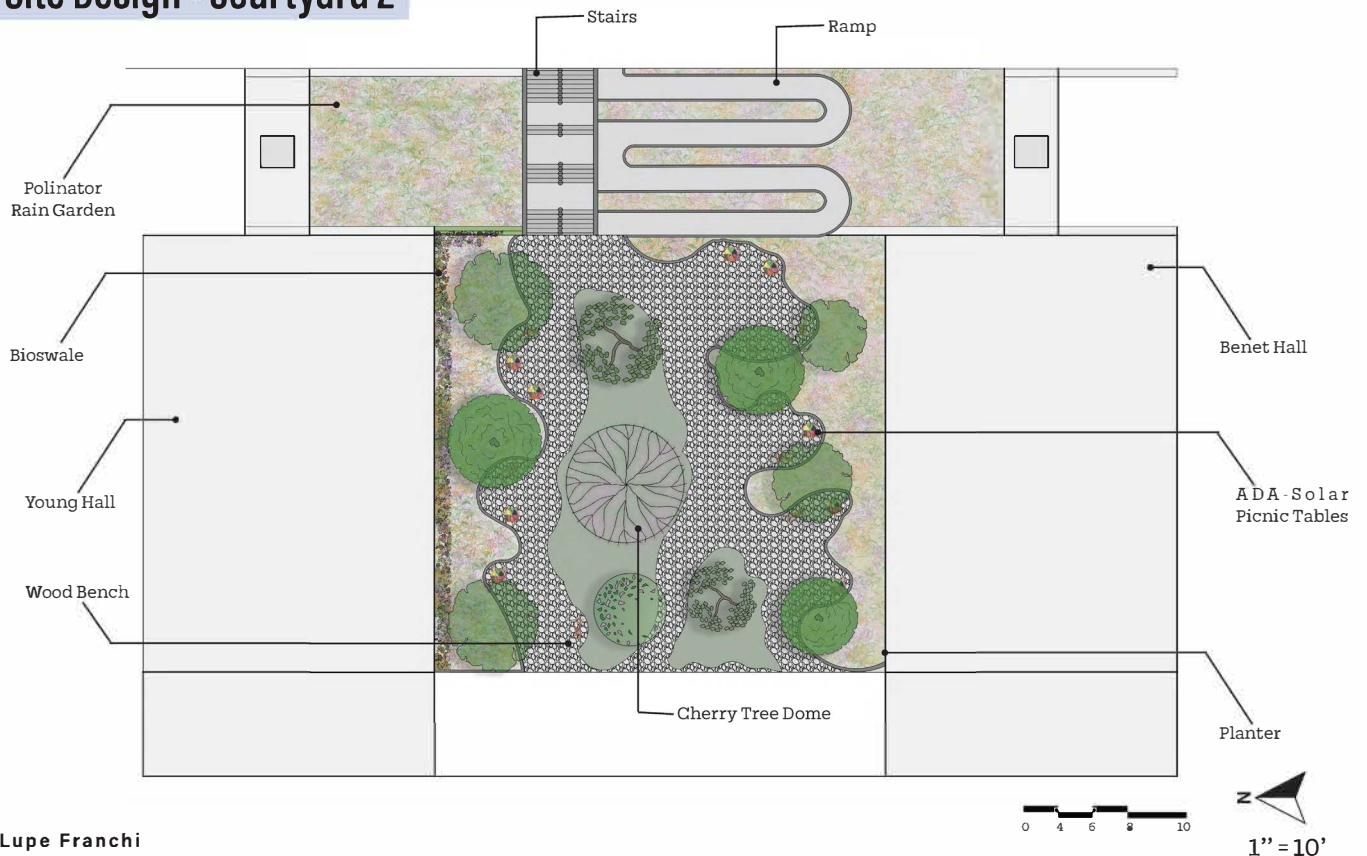
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Portfolio

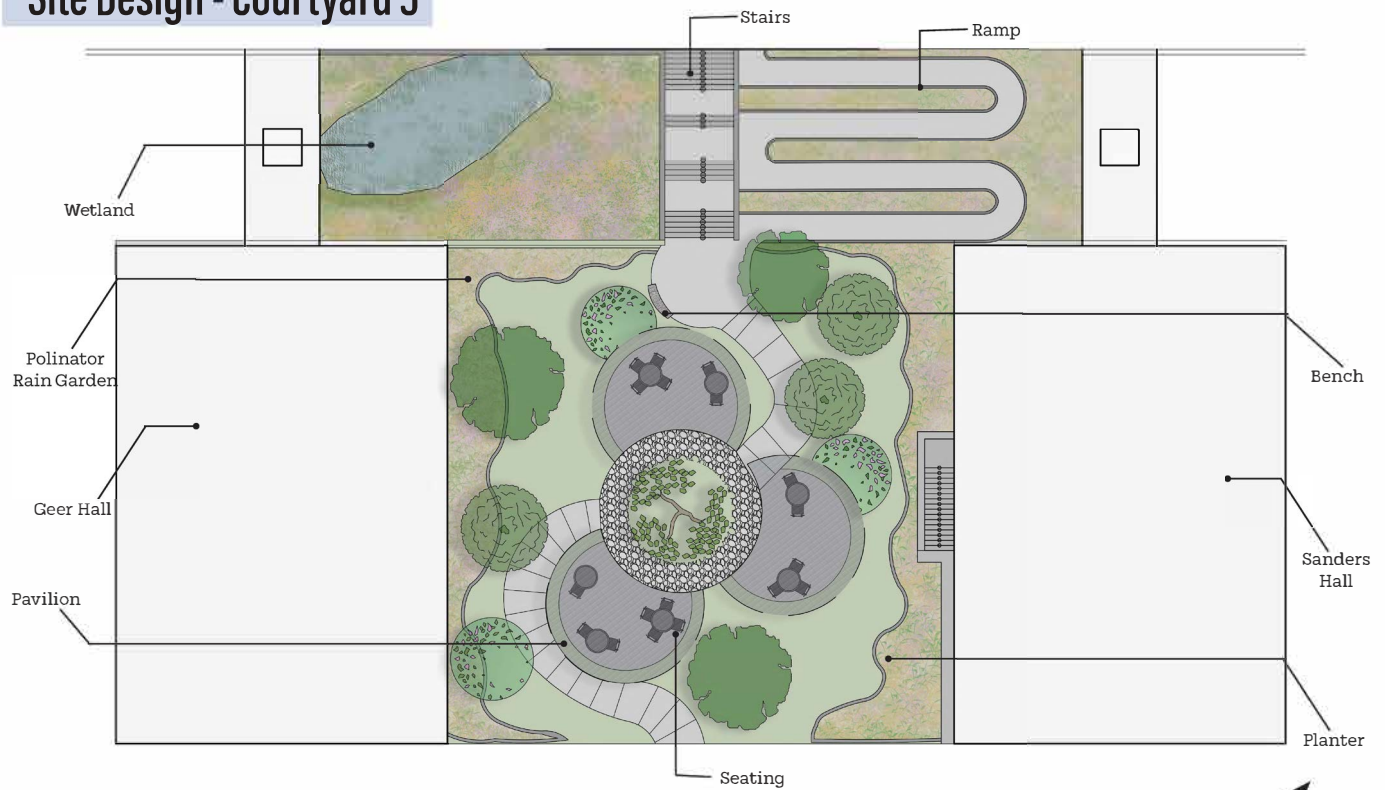
Site Design - Courtyard 1



Site Design - Courtyard 2



Site Design - Courtyard 3



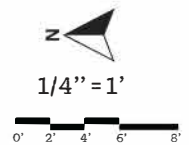
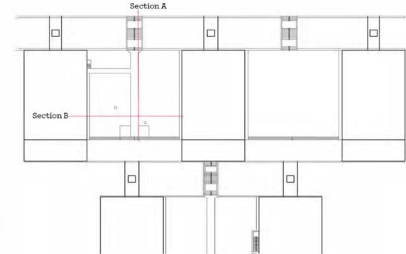
Lupe Franchi

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Site Section - Courtyard 1

Section A



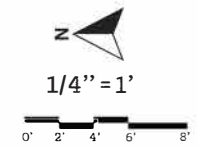
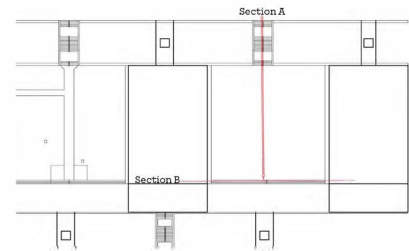
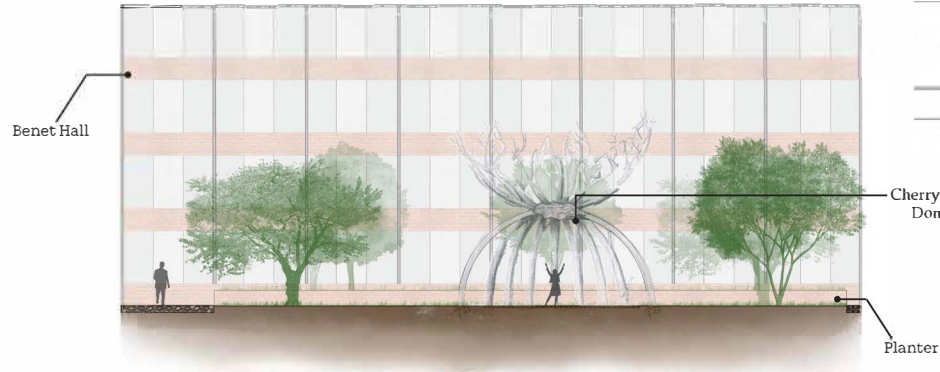
Section B



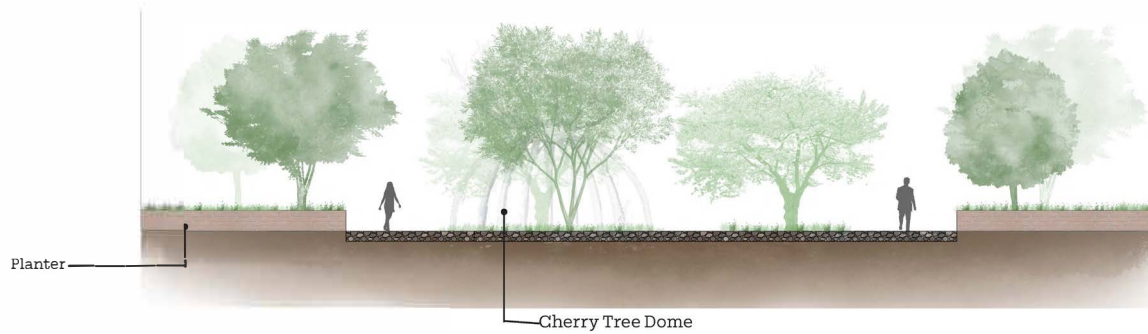
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Site Section - Courtyard 2

Section A



Section B

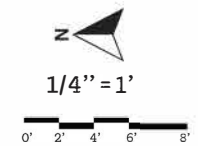
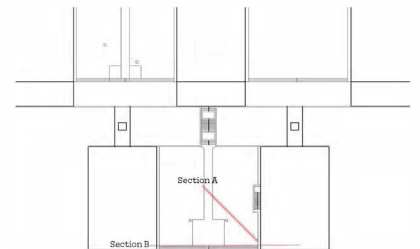


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Portfolio

Site Section - Courtyard 3

Section A



Section B



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Courtyard Diagrams



Relaxation



Health & Wellness

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Portfolio

Courtyard Diagrams



Environment



Social & Academic

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Portfolio

Handwork & Sketches



Watercolor Drafts

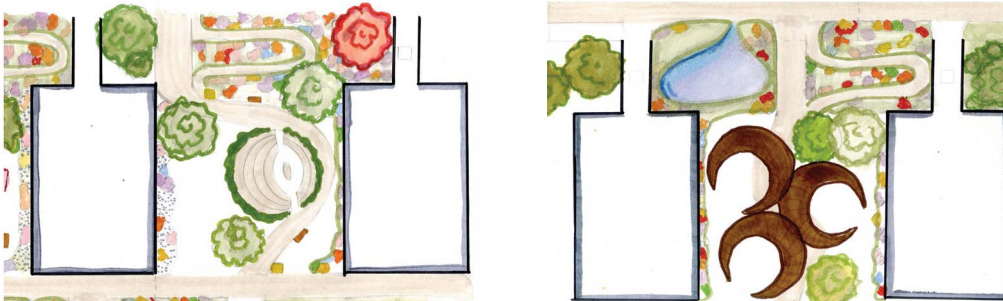


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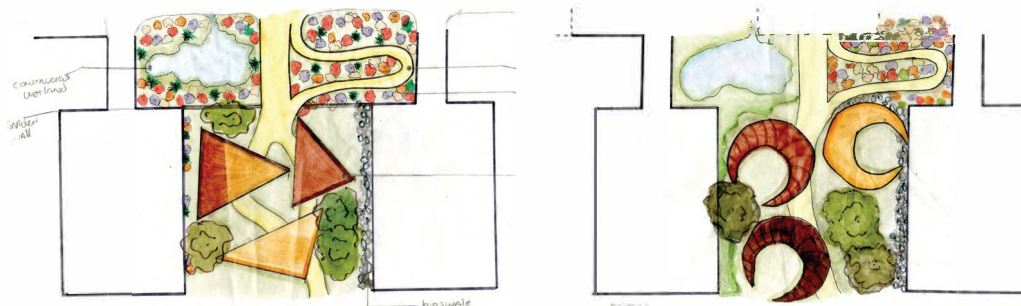
Portfolio

Handwork & Sketches

Watercolor Drafts



Trace Paper Drafts



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Portfolio

Handwork & Sketches

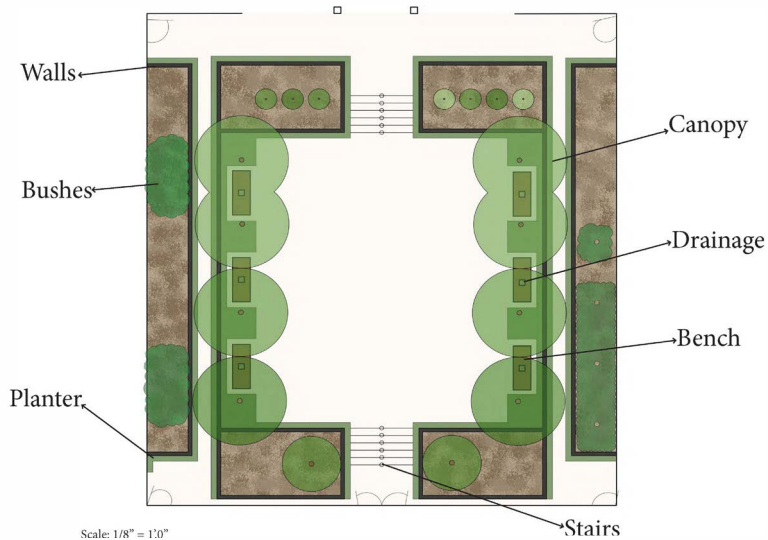


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Portfolio

Lee I Courtyard Project

Lee I Courtyard



Lupe Franchi

