

NICHOLAS CHARLES PIQUERO

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Objective: Channeling my expertise and abilities into a dynamic design firm, I aim to not only contribute to its creative endeavors but also elevate my proficiency as an Architectural Designer through continuous learning and impactful projects.

EXPERIENCE

ARCHITECTURAL INTERN, SIONAS ARCHITECTURE

MONTCLAIR, NJ 07042 JUNE 2022-AUGUST 2022

Contributed to the Construction Documentation of a 7-story apartment building, conducted on-site visits and measurements for a church, skillfully designed the installation of a ramp, and played a key role in creating elevation, plan, landscape plans, and renderings for a prestigious Lexus car dealership in Englewood, New Jersey.

HUTCHESON MEMORIAL FOREST COLLABORATION OPPORTUNITY

FRANKLIN TOWNSHIP, NJ 08873 FEBRUARY 2019-APRIL 2019

Collaborated with a team of student Landscape Architects and Plant Ecologists at Rutgers University to envision and craft a sustainable pathway and entrance for Hutcheson Memorial Forest in Franklin Township, New Jersey. The proposed design, undertaken in 2019, aimed to harmonize ecological principles with aesthetic appeal.

CASHIER/CLERK- STOP & SHOP

EMERSON, NJ 07630 JUNE 2015-MAY 2022

Served as a cashier and dairy manager at Stop and Shop, consistently delivering exceptional service, fostering strong customer relationships, and demonstrating adept communication skills. Proven efficiency and determination in providing high-quality assistance to meet the needs of patrons.

EDUCATION

B.S. IN LANDSCAPE ARCHITECTURE, RUTGERS UNIVERSITY-NEW BRUNSWICK, NJ

SEPTEMBER 2017-MAY 2021

Coursework: Intro to Environmental Design I, Intro to Environmental Design II, Intermediate Landscape Architecture, Praxis Studio I, Advanced Landscape Architecture, Praxis Studio II, Visualization I-III, Construction I-III, Planting Design, Plant Ecology, Social/Cultural Aspects of Design, Landscape History, Landscape Studies, Geomatics/ArcGIS. GPA: 3.2

MASTER'S IN ARCHITECTURE, KEAN UNIVERSITY-UNION, NJ

SEPTEMBER 2021-MAY 2024

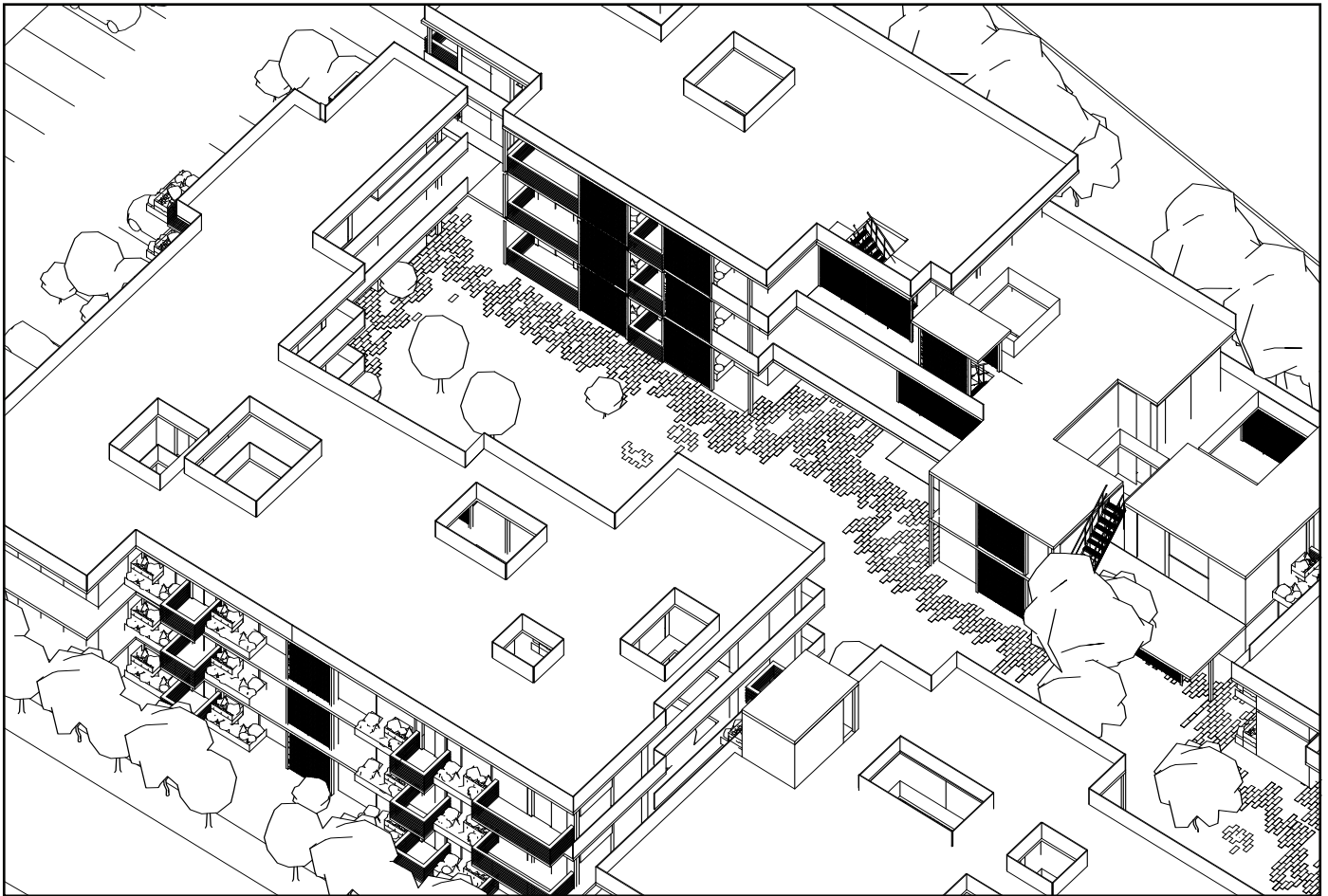
Coursework: Structures I, Representation 3, Building Systems I, Theory Ecology, Foundation Arch. Studio, Structures II, Intro to Arch. Theory, Arch. Studio II, Studio 9, History 9, Professional Elective I, Building Systems II, Professional Practice I, Studio 10, Building Systems Integration 3, Studio 11, History 10, Professional Practice II, Studio 12, Professional Elective III. GPA: 3.7

SKILLS

- Rhino-3D 7
- AutoCAD
- Adobe Illustrator
- ArcMap/QGIS
- Adobe Photoshop
- Adobe InDesign
- Sketchup/Enscape Rendering
- Microsoft Word/Excel

NICHOLAS CHARLES PIQUERO

“Architecture stands as the sculptor of landscapes, molding space and defining its narrative with every structure it erects.”



Kean University- Michael Graves School of Public Architecture

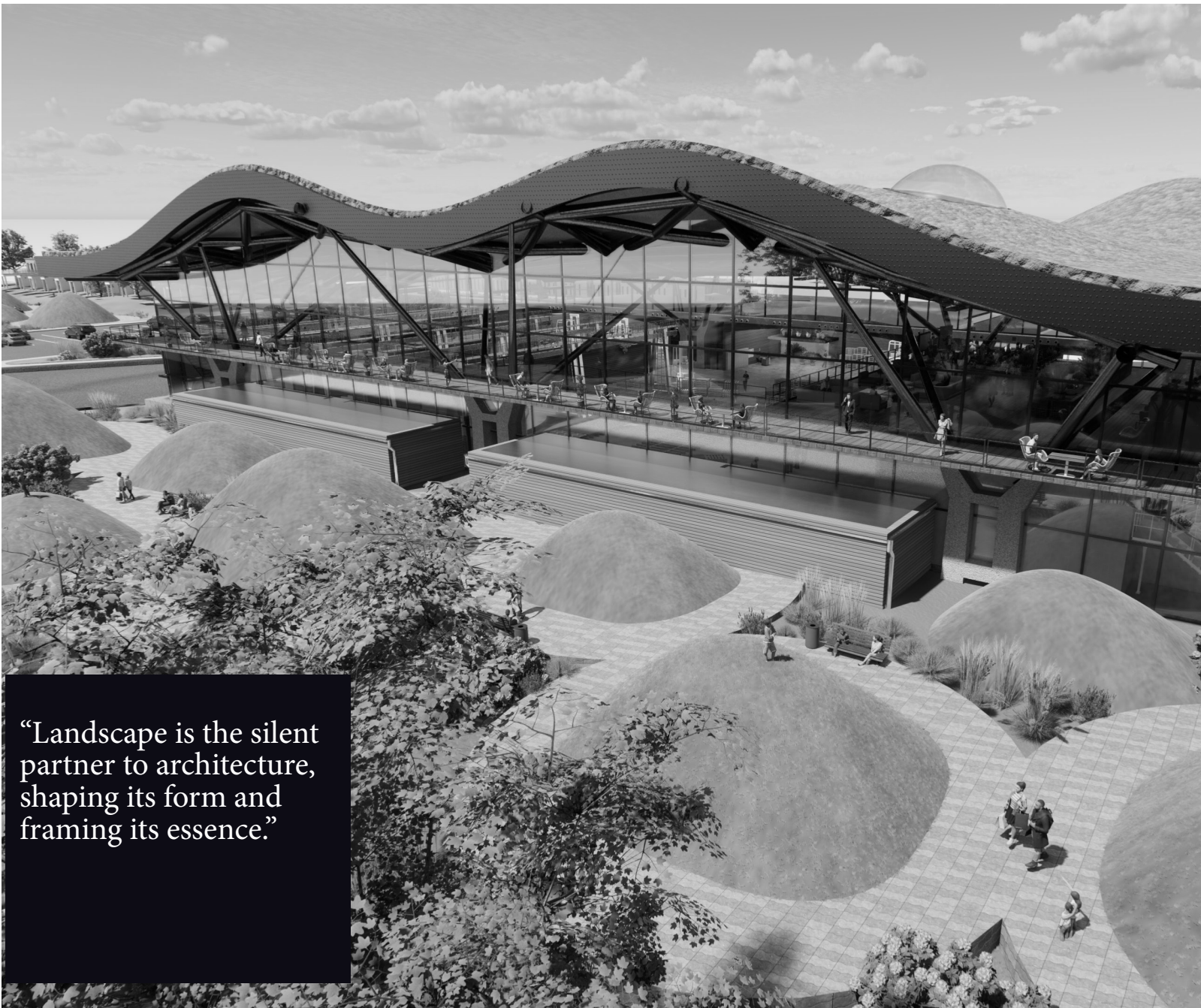
ARCHITECTURE PORTFOLIO

2021-2024

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“Landscape is the silent partner to architecture, shaping its form and framing its essence.”

ABOUT ME



NICHOLAS CHARLES PIQUERO

Channeling my expertise and abilities into a dynamic design firm, I aim to not only contribute to its creative endeavors but also elevate my proficiency as an Architectural Designer.

“Where architecture and landscape converge, harmony blossoms, each enriching the other’s essence to craft environments that resonate with the soul.”

I am a dedicated and sufficient, multifaceted design professional whose academic journey underscores my dedication to the landscape and built environment. Graduating with a Bachelor of Science in Landscape Architecture from Rutgers University, I have immersed myself in coursework ranging from Plant Ecology to Landscape History. My engagement extended beyond the classroom as I have collaborated on a project aimed at revitalizing the Hutcheson Memorial Forest, showcasing my commitment to merging ecological principles with aesthetic design, and fostering sustainable landscapes that harmonize with their surroundings.

Currently pursuing a Master’s degree in Architecture at Kean University, graduating May 2024, I continue to push the boundaries of my expertise. With a GPA of 3.7, I have excelled in foundational studies encompassing building systems, architectural theory, and professional practice. With my academic prowess, coupled with hands-on experience, I am positioned as a dynamic force in the realm of architecture, poised to leverage a diverse background to create innovative, impactful designs that shape the future of our built environment.

EDUCATION:

B.S. IN LANDSCAPE ARCHITECTURE, RUTGERS UNIVERSITY NEW BRUNSWICK, NJ- SEPTEMBER 2017-MAY 2021
GPA: 3.2

MASTER'S IN ARCHITECTURE, KEAN UNIVERSITY UNION, NJ, SEPTEMBER 2021-MAY 2024 GPA: 3.7

SKILLS:

- Rhino-3D 7
- AutoCAD
- Adobe Illustrator
- ArcMap/QGIS
- Adobe Photoshop
- Adobe InDesign
- Sketchup/Enscape
- Microsoft Word/Excel

EXPERIENCE

ARCHITECTURAL INTERN, SIONAS ARCHITECTURE MONTCLAIR, NJ 07042 JUNE 2022-AUGUST 2022

HUTCHESON MEMORIAL FOREST COLLABORATION FRANKLIN TOWNSHIP, NJ 08873 FEBRUARY 2019-APRIL 2019

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GREEN CORRIDOR CLUSTER HOUSING

01

Goal: The main goal of this project was to develop this site with the aspect of time in mind. A few points of inspiration for how I chose to approach this site are mat style architecture, cluster housing, and green corridors.

Studio Instructor: Yalun Li
Year: Fall 2023

Programs Used:
Rhino
Illustrator

Site Location

Dali, China
Yunnan Province

Site Parameters:

137,000 Sq. Meters

Design for Who?

Digital nomads, tourists, permanent stay residents, and families.

Design Concept:

Cluster housing in architecture cultivates a unique sense of time by blending modern design with historical context. Through thoughtful arrangement, it creates a harmonious fusion of past and present, invoking a timeless atmosphere. The juxtaposition of diverse structures within a cluster fosters an evolving narrative, enhancing residents' connection to the continuum of history. The movement from low rise single units to 3 stacked units physically shows this aspect of time through the site by seeing this progression as you walk through the green corridor space. The central Green Corridor promotes residents to interact, play, open pop up markets and plant as a community.

Site Design:

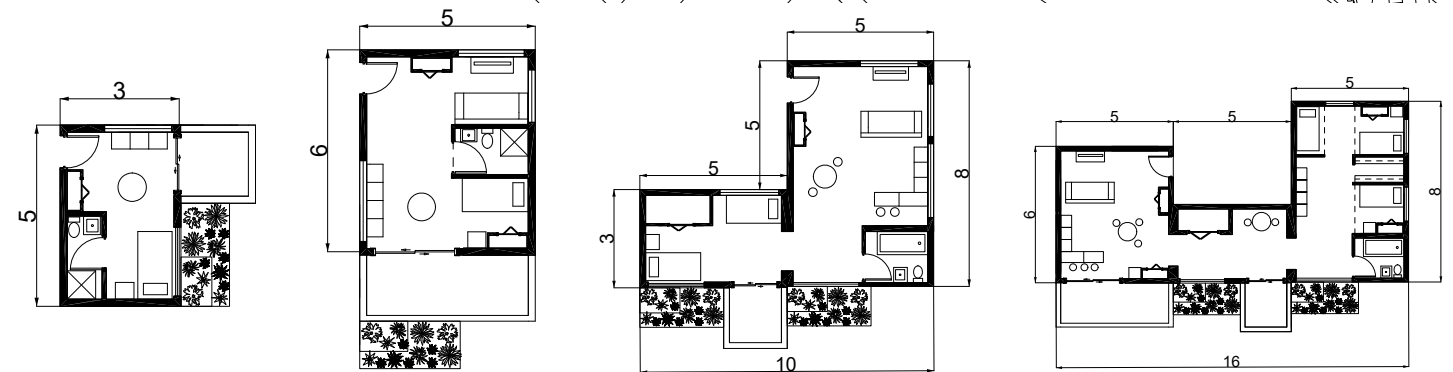
The site is split up into three distinct sections. The lower right section is geared towards digital nomads, as they have their own individual units, displaced from one another that gives them the basic amenities they need, like a small kitchen, bathroom and bed space with an added garden space. The intention for these is not permanent residency but enough for a person to rent, live and work in these spaces for a few months.

Towards the middle section these individual units start to form together, and stack and rise to two stories, in which couples and single user tourists can come and stay for a vacation or travel destination, some parts of the ground floor are converted into laundry spaces, mini food markets, and dining spaces to provide ease of access to these amenities for those who choose to live here for a few weeks to a month. Within this section, the green spine corridor starts to form with a unique paving pattern that breaks up every so often to let the grass peak through, in order to highlight the green aspect of the site.

Towards the top section of the site is where permanent residency resides, these units stack to 3 levels to encompass families on each floor, to where the social interaction of each floor becomes a family cluster that can be purchased according to each level.



AXONOMETRIC



SINGLE UNIT

1 bed, bathroom with shower, small kitchen space, living room space, small storage closet, balcony and garden space

COUPLE UNIT

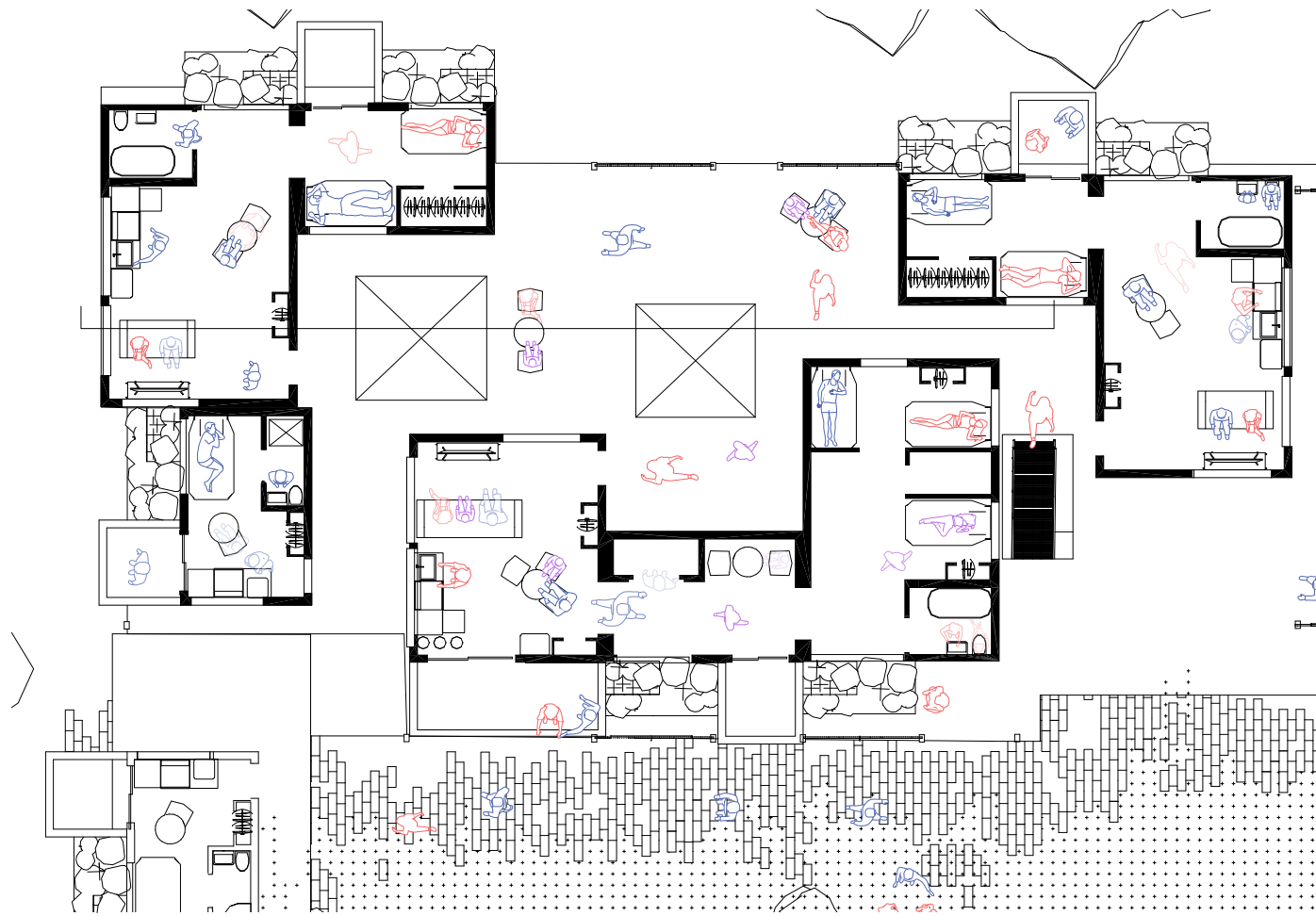
1 or 2 beds, bathroom with tub, standard kitchen space, living room, walk in closet, balcony and garden space

FAMILY UNIT

3 beds, bathroom with tub, standard kitchen space, living room space, walk in closet, balcony and garden space

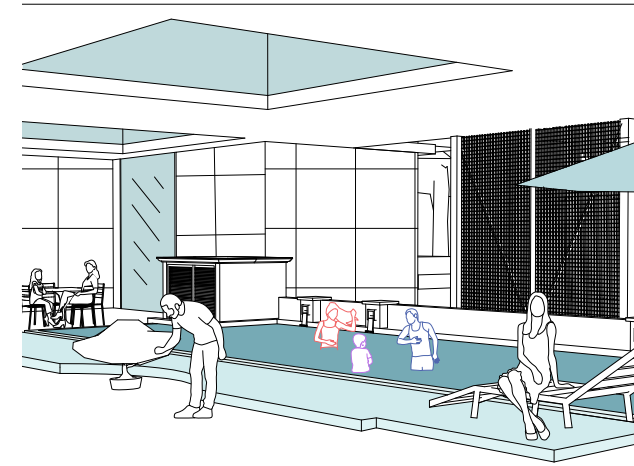


MOVEMENT THROUGH SPACE DIAGRAM



Implementation of Greenery

The Green Corridor is implemented to promote interactive space between clusters, bringing about a sense of place and community. Staircases travel from one floor to the next to promote walkability

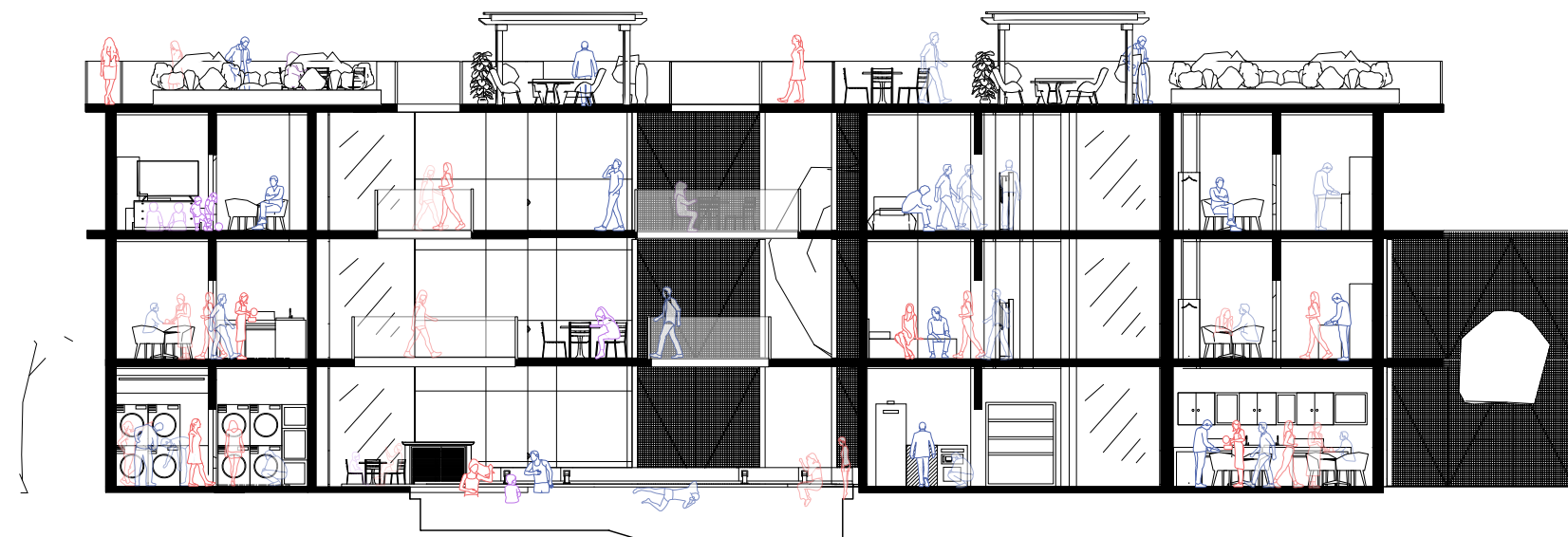


Amenities for Residents

Amenities that are included in this corridor are greenscapes, planting grounds, kitchen spaces, laundry spaces, pools/lounging areas, green roofs and recreational areas.

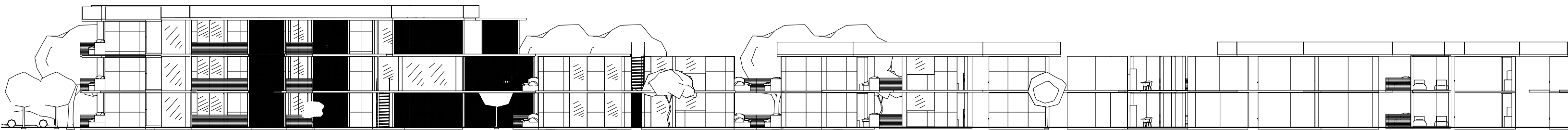
ELEMENT OF TIME

- 1 The Green Corridor acts as a central spine that connects each of these spaces, almost like a timeline from start to end.
- 2 the Mat building type allows for interconnectedness through its series of platforms that extend to other buildings for ease of access and flow. different sized punch outs allow for oculus light wells to travel down these spaces
- 3 Connected Platforms promote programs in verticality on each level. Each level has enough space for amenities such as ping pong tables, lounge type, pop up markets, and other crafty productions, promoting a sense of community.



ELEVATION

Exterior meshes and balcony spaces allow for vegetation such as vines and other deciduous plants to cling and climb onto, over time the mesh will be taken over with greenery, bringing the landscape up from the ground level. Floor to ceiling glass windows allow for the spectacle of the vast green corridor as well as the interconnected pathways that stretch out to other complexes due to the mat style architecture.



GREEN MOUNDS

MODULAR HOUSING

02

Goal: The main goal of this project was to develop a modular housing factory that would address the need for affordable housing as well as address the revitalization of the Assunpink creek which runs along the exterior of the site.

Studio Instructor: Richard Lucas
Year: Spring 2023

Programs Used:
AutoCAD
Rhino
Enscape

Site Location

North Clinton/Coalport
Trenton, New Jersey

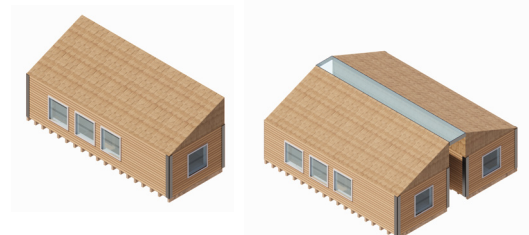
Site Parameters:

264,875 Sq. Ft.

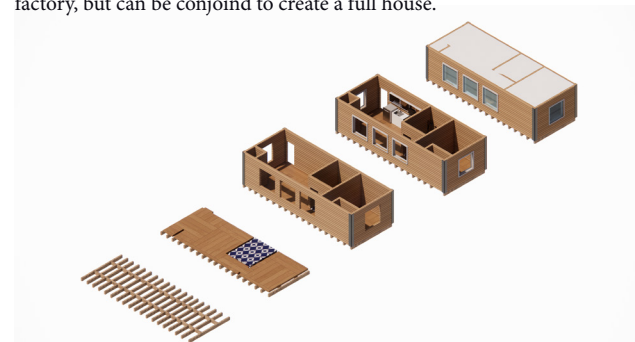
Design for Who?

Affordable housing for residents

Modular Units



The single unit above is developed within the modular housing factory, but can be conjoined to create a full house.

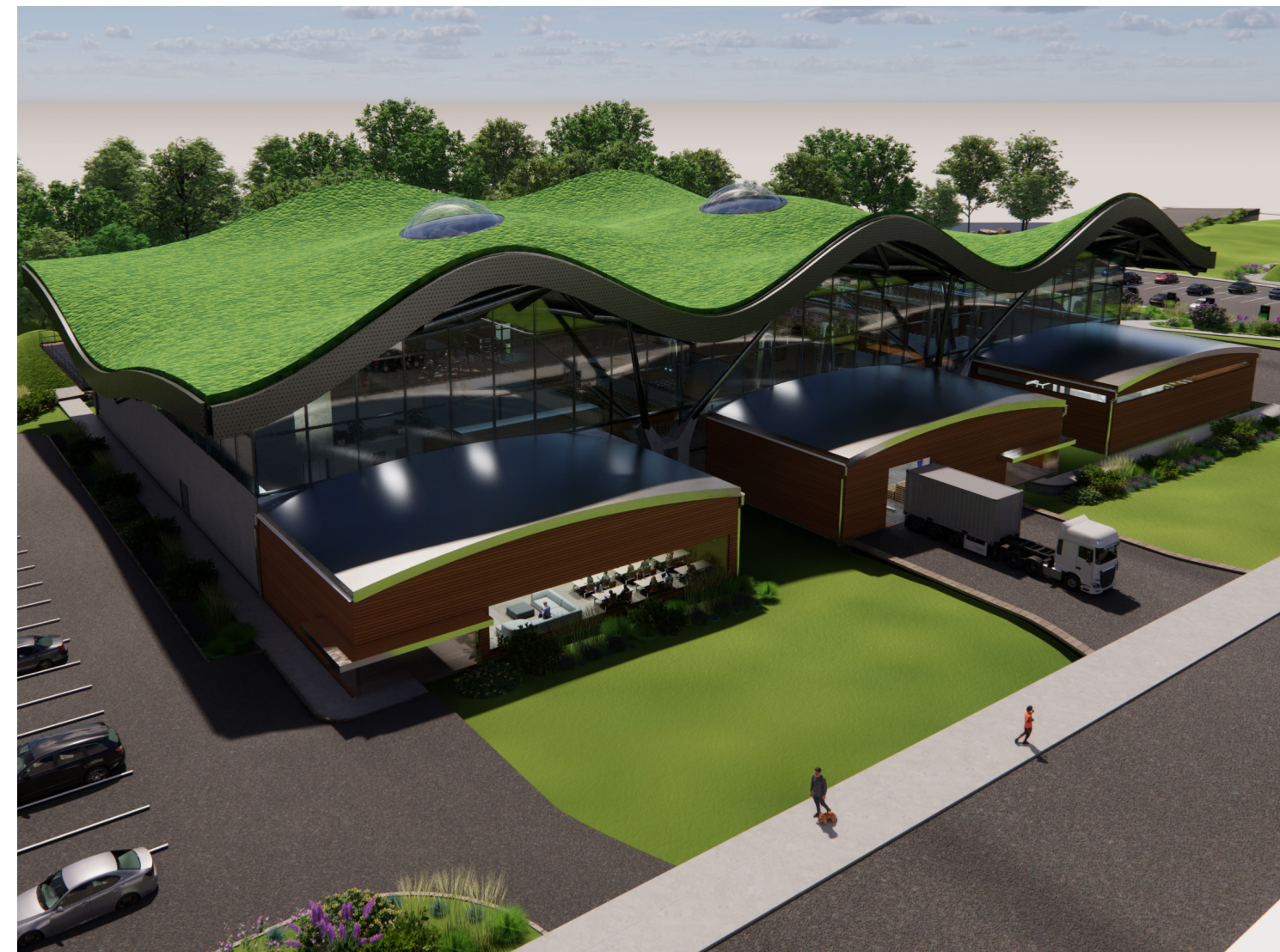


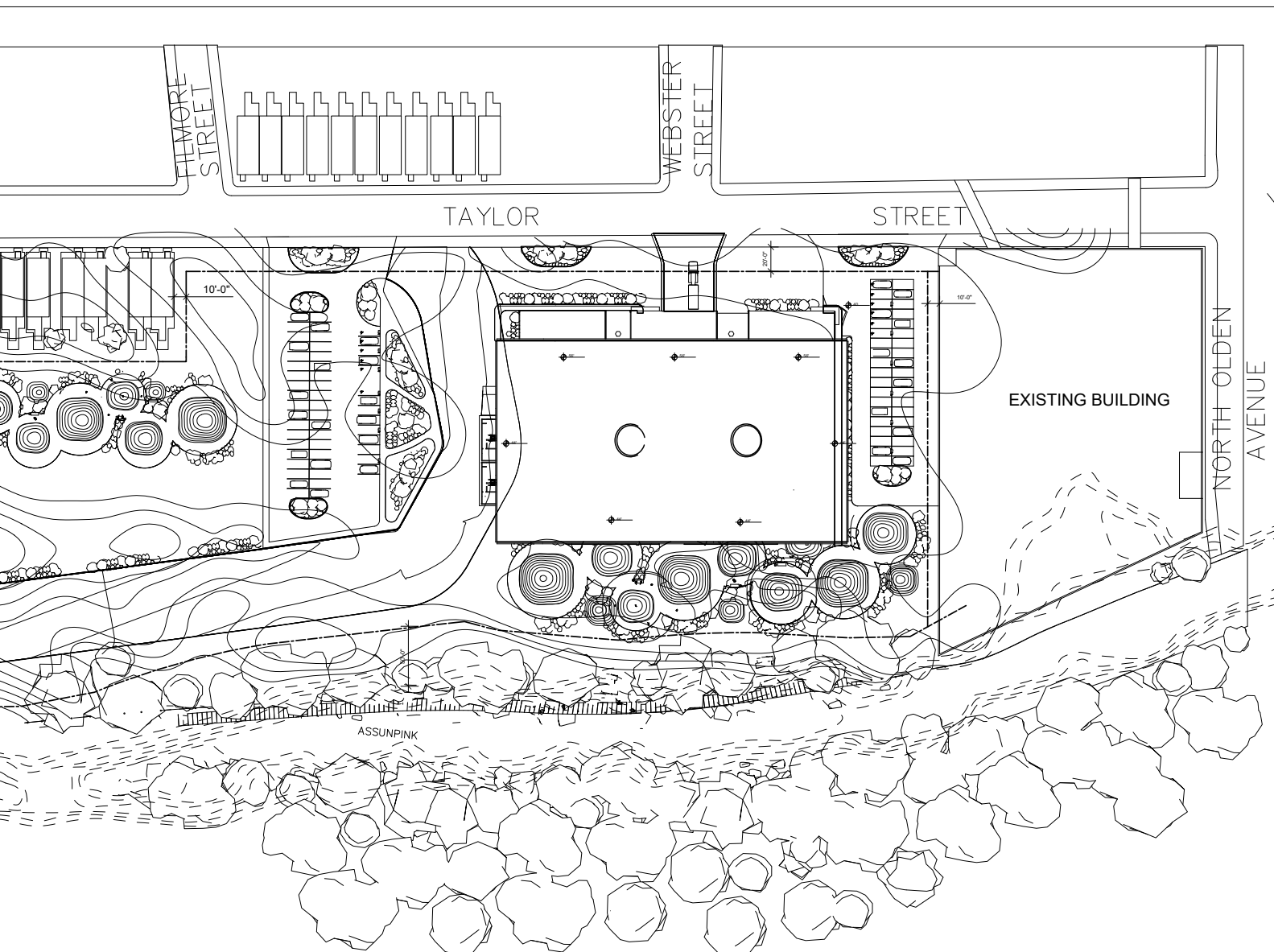
Production

Designing the assembly line for the units consisted of floor joist construction, floor board/tile installation, exterior and interior wall installation, window and electrical installation, and lastly ceiling and packaging.

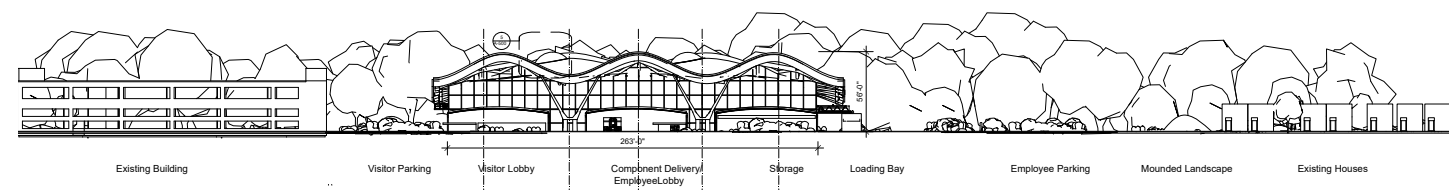
Site Design

The main focal point of the factory design is the undulating green roof and green mounds. The main reason for this was to deal with water from rain or floods from the Assunpink Creek to properly drain towards rain gardens that I have designed around the site. Permeable pavement is also used to properly drain water in parking lots and walkable paths. The green mounds not only provide spectacle, but also provide a playscape/artistic element for users to come and enjoy.

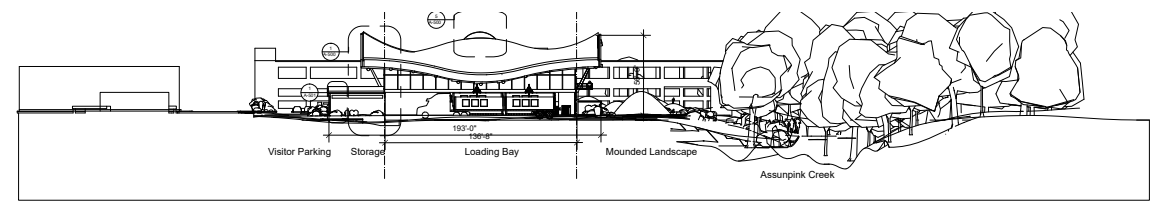




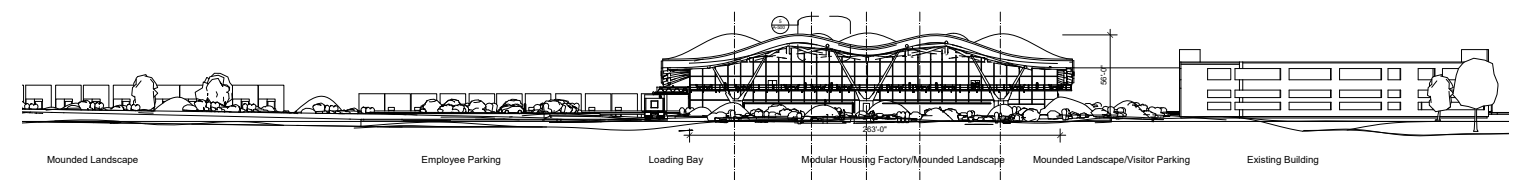
SITE PLAN & ELEVATIONS



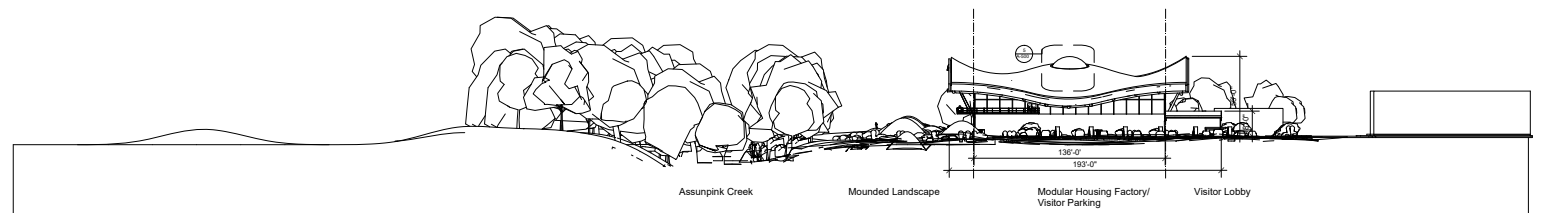
North Elevation



West Elevation



South Elevation



East Elevation

LOBBY

Programming

The interior of the site is designed to keep visitors and workers in their own restricted areas, minus the mezzanine space. Workers have their own parking lot and lobby space where they come through as well as delivery zone for raw components. From here, the factory floor is all theirs, allowing them to access storage units, office spaces, recreation/lounges and production zones.

Visitors enter through the main lobby and have a choice to look at a wide array of material selection for the modular homes. From here they can either walk up the stairs or take the elevator in order to access the mezzanine space which holds a confectionary station as well as auditorium and lounge space that overlooks the production zone and Assunpink creek and moundscape.



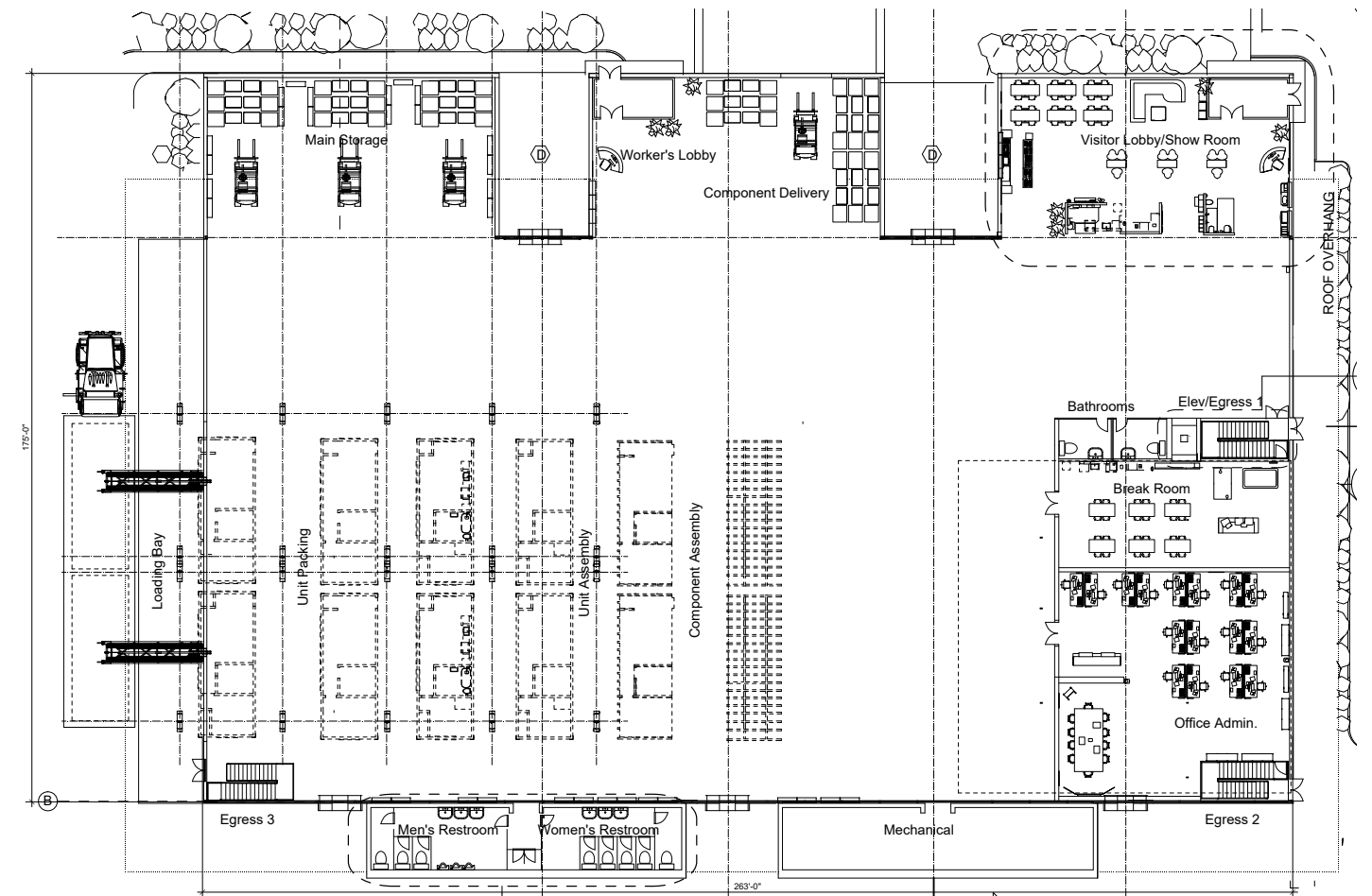
Show Room

A show room full of modular housing customization options greet users as they first enter the building. Here, users who are seeking these affordable housing units can look at material choices such as exterior facade, flooring and furniture.



Waiting Area

A lounge type area awaits users waiting to meet with representatives. This area contains seating and a small cafe.



GROUND FLOOR PLAN



Mezzanine

A required mezzanine for the program of the factory is used for a large auditorium space for visitors to learn about the construction of modular units, as well as providing lounge spaces, confectionary stations, and a catwalk that provides overlook to the assembly area as well as the Assunpink creek and green mound landscape.

INTERIOR PRODUCTION

Structural Systems

Exterior Y-columns are used in place of a typical warehouse truss system. These Y-columns are used to elevate the large scale space frame which ultimately becomes the membrane for the green roof system above. Due to the undulating roof, in order to accommodate for large space and fumes from the factory, ventilation is lined specifically on the exterior of the first floor, as well as large ceiling fans to circumvent the air pollution. The gantry system is on rails to provide ease of flow from each development of the modular homes. Once the final modular is completed, it gets hoisted onto a truck and ready for shipment.



Office Space

Office space is provided with acoustic panneling to rid of any unwanted noise from the production area.

COALPORT PAVILIONS

03

Goal: The main goal of this project was to revitalize the Coalport area in Trenton, New Jersey. As a class, we each got to hone in on a specific area of Coalport and design for different aspects such as housing, recreation, park space, biking, and other various programs. This was done in conjunction with April De Simone, an architectural consultant working with Capital City Farms, a local farm in the city of Coalport. These ideas have since been pitched to Trenton City from the Fall 2022 Kean University students.

Studio Instructors: David Mohney, Christina Ostermier
Year: Fall 2022
Partner: Kevin Samaan

Programs Used:
Rhino
Enscape
Illustrator

Site Location

Coalport, Trenton, New Jersey

Site Parameters

D&R Canal Trail

Design for Who?

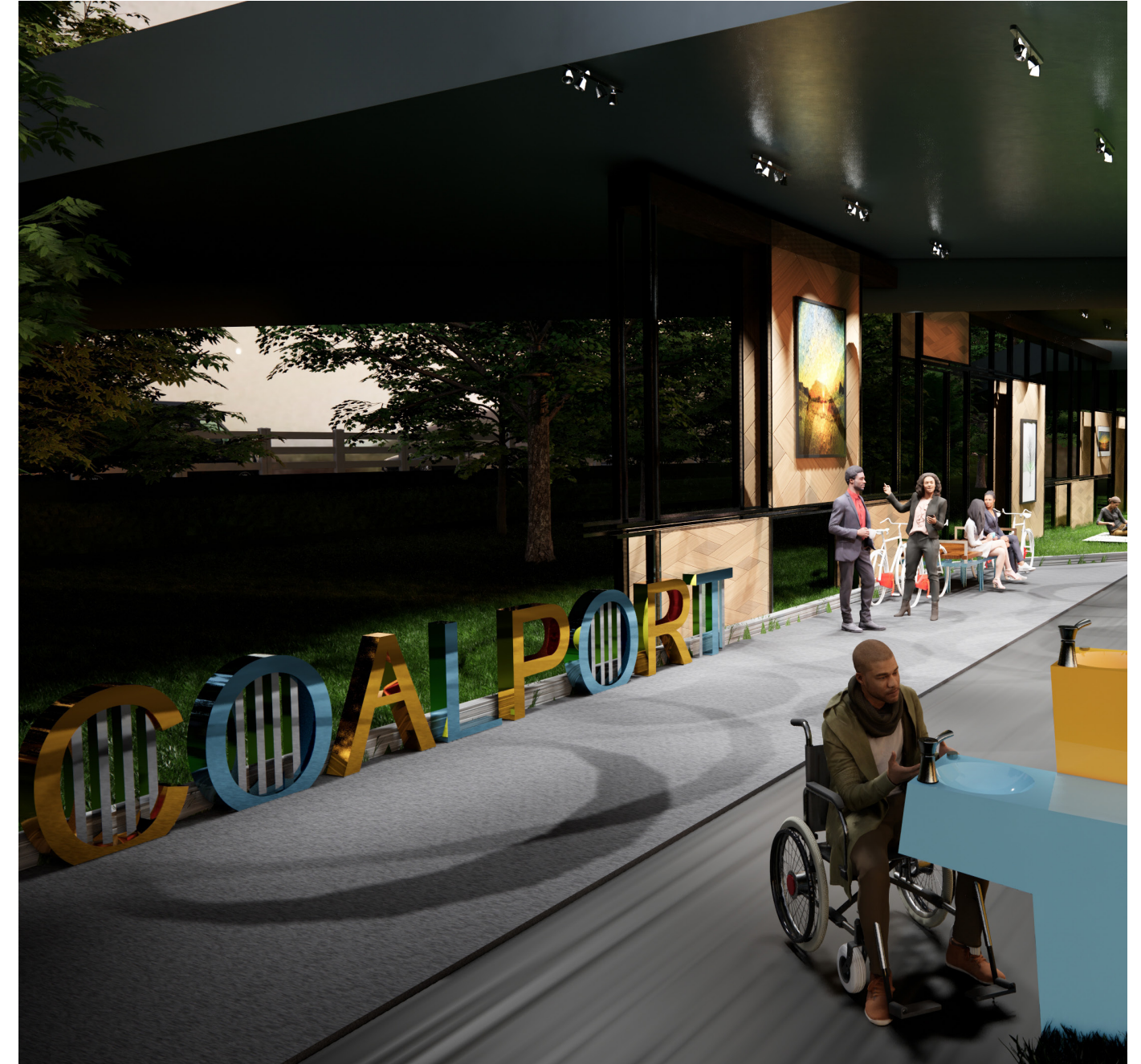
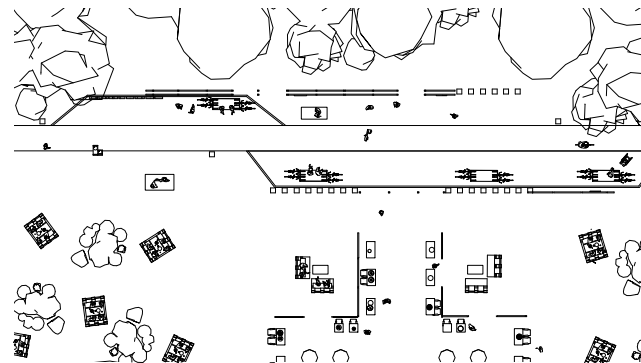
Coalport Residents

Programming

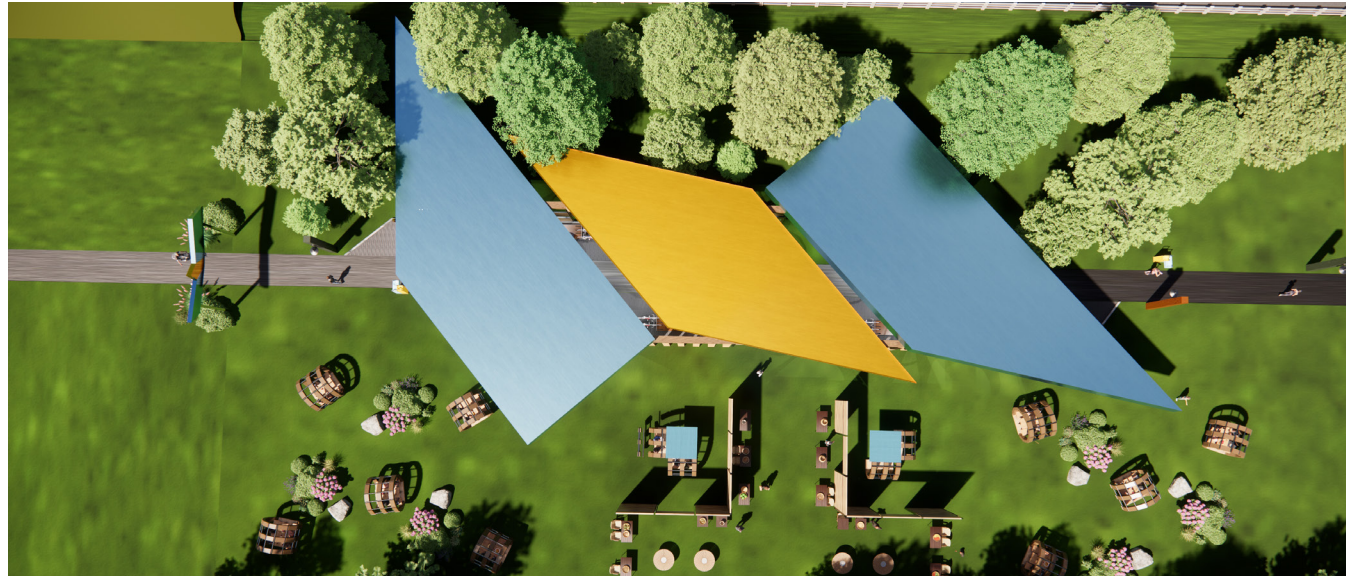
The purpose of this assignment was to study Coalport and assess site conditions, functional programs, structural and enclosure systems, ecological and environmental impact, and the historical and cultural precedents appropriate for the topic and deciding on what area we wanted to focus on.

Site Design

With the number of trails and varying paths introduced within Coalport, I had an interest in connecting and establishing focal points that bring about a sense of place and community. As it stands, the current D&R trail is underutilized, by providing a pavilion in this location and between multiple trailed corridors throughout Coalport, this will establish social points, in aims to tie the community and other points of interest together. This example shows the pavilion along the D&R Canal Trail behind Capital City Farms, screened off next to US-1.



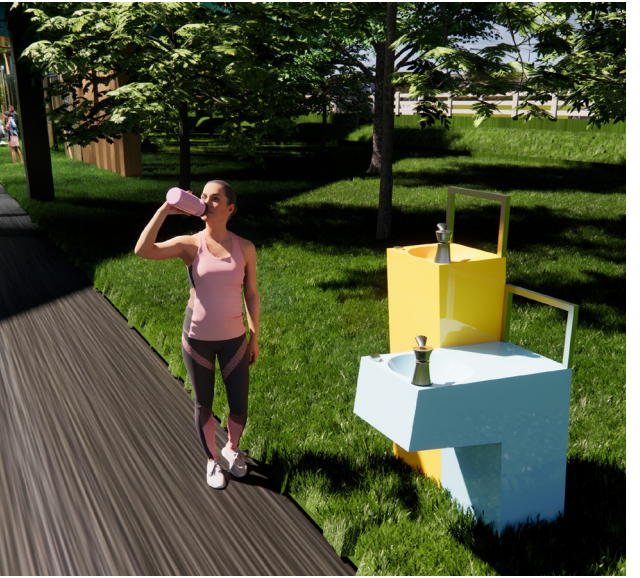
NIGHT RENDER PERSPECTIVE



These pavilions have a multitude of programs such as being used as pop up art exhibits, biking trails, walking/running trails, pop up market spaces, picnic, and social gatherings. Defined as a kit of parts, designed to be assembled in a variety of ways, these structures can be built in unique imaginative ways. Materiality includes wooden posts and panels, stained steel roof structures that resemble the Trenton colors of blue and gold, steel framing and lighting fixtures that would be placed throughout the trails for nighttime adventures!



In collaboration with my partner, Kevin Samaan, we have designed furniture that is to be used uniquely throughout Coalport with Trentons colors of blue and gold. These include signs, bike racks, water fountains and seating



PORTFOLIO

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