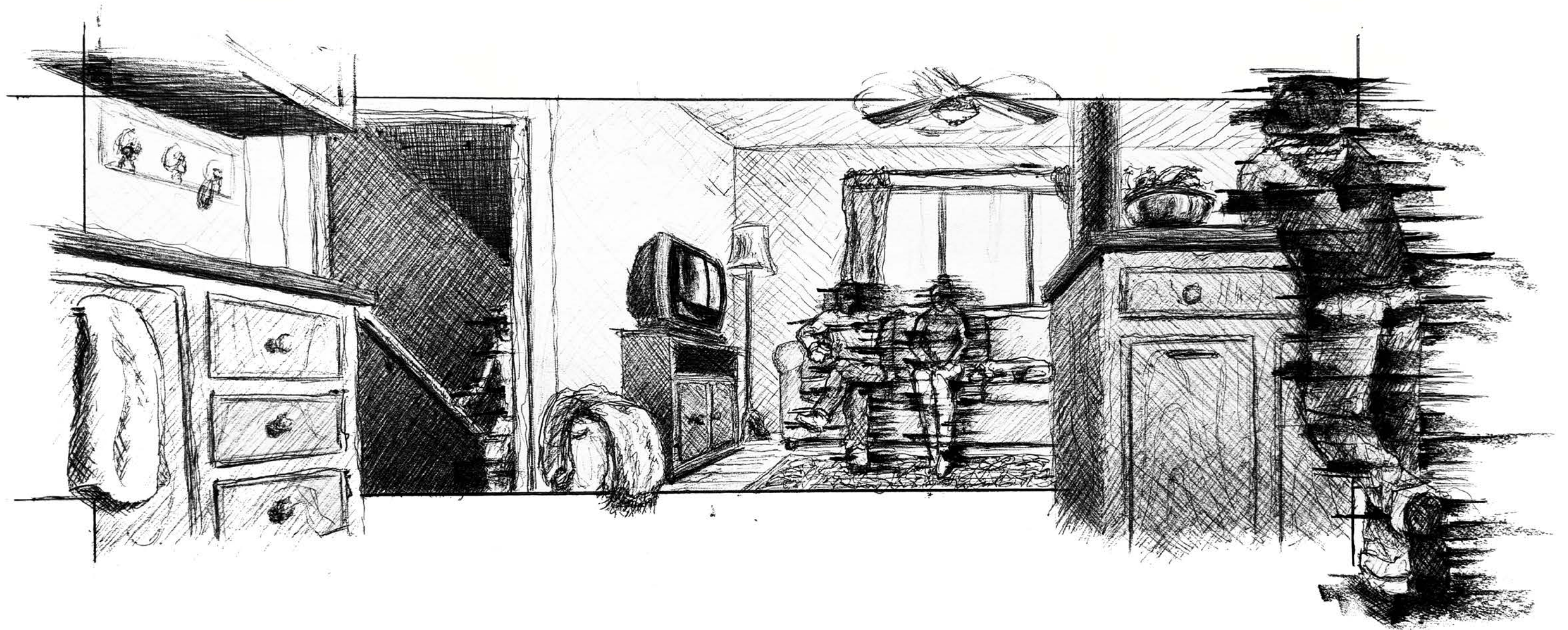


SEAN M. DAUGHERITY

Architecture Portfolio - selected works



Childhood Home - Recollection Sketch



[Resume Link](#)

1+ (608) 566 - 5436

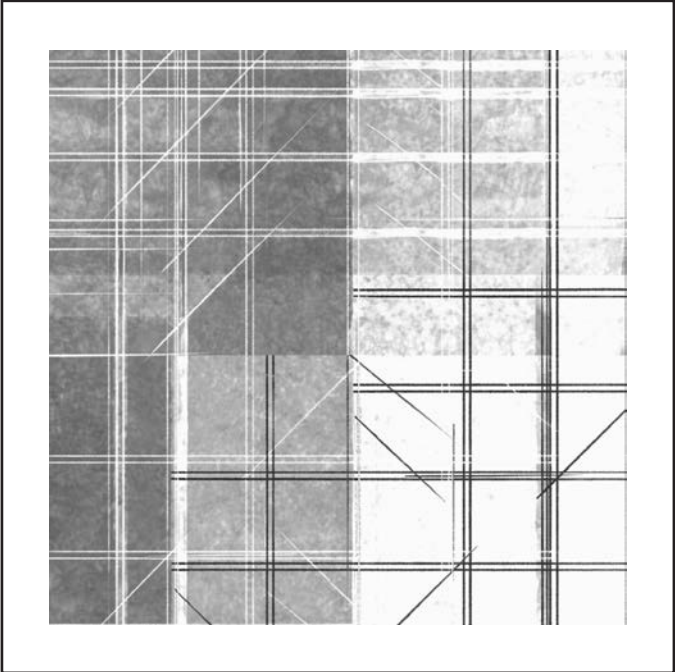
sean.daugherty@gmail.com

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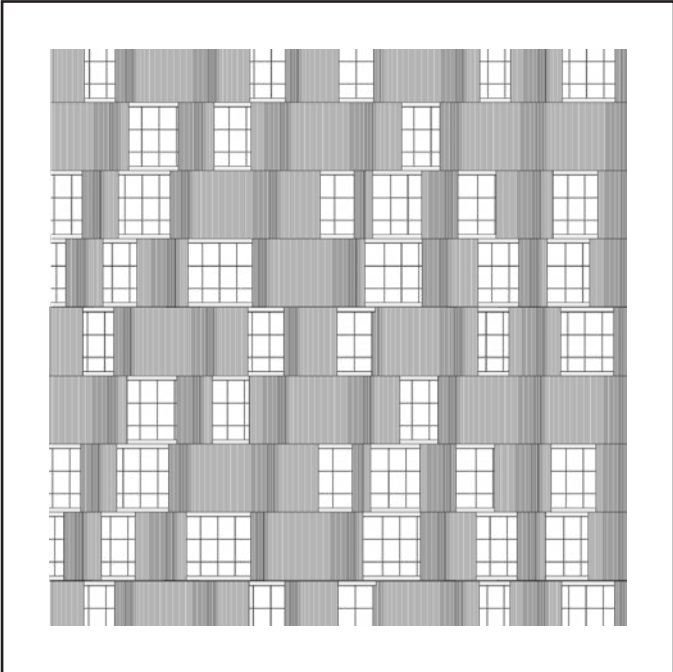
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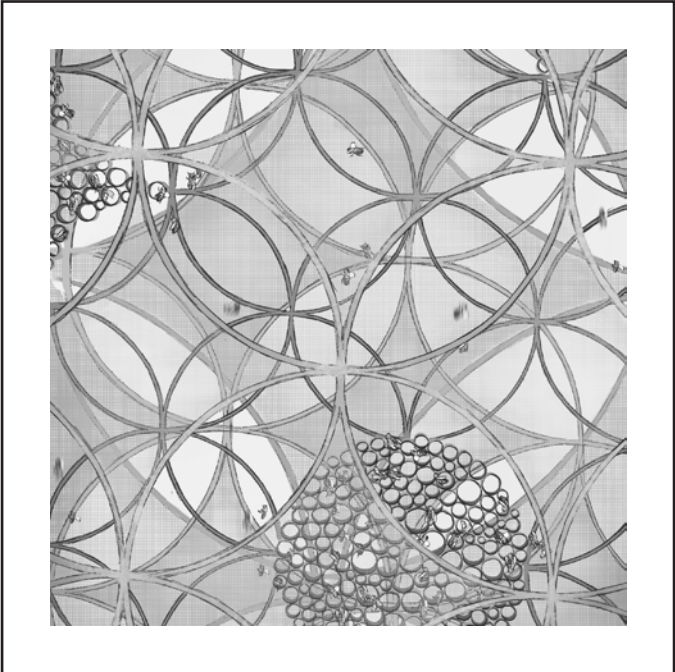
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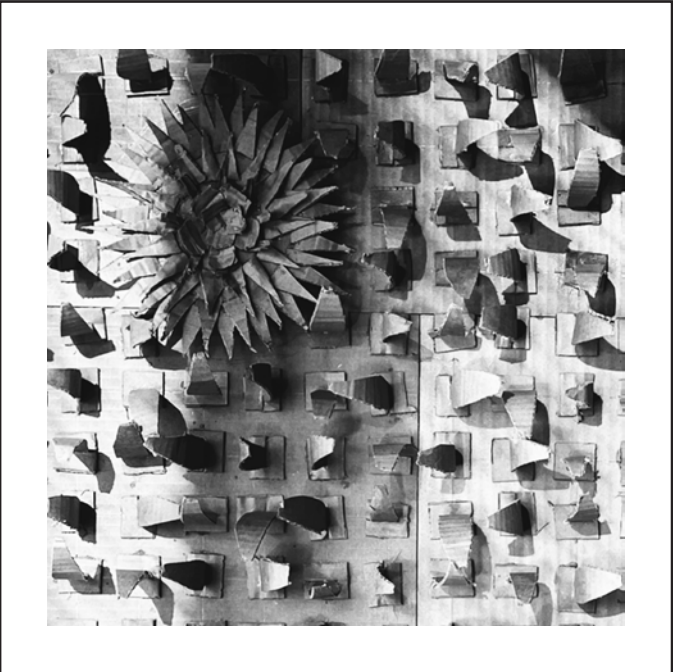
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COMMON HORIZONS - LOW INCOME HOUSING

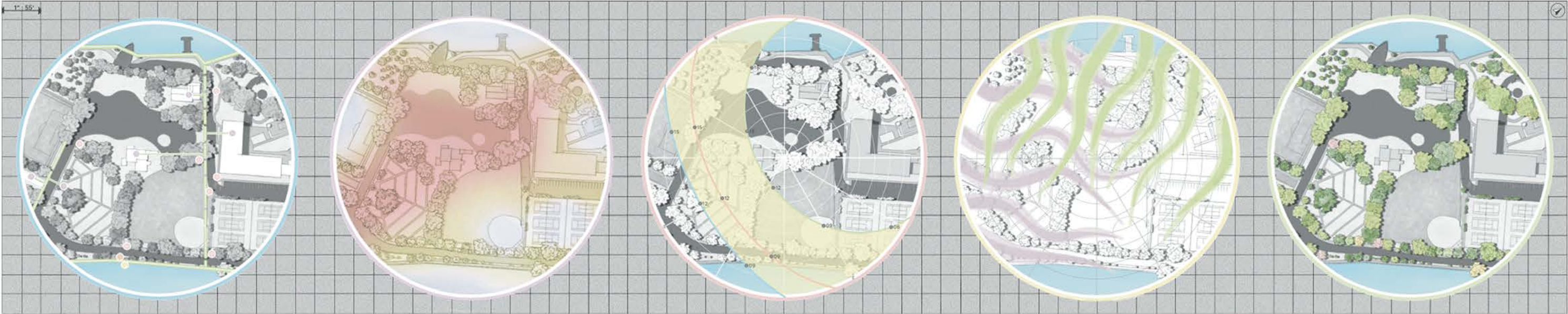
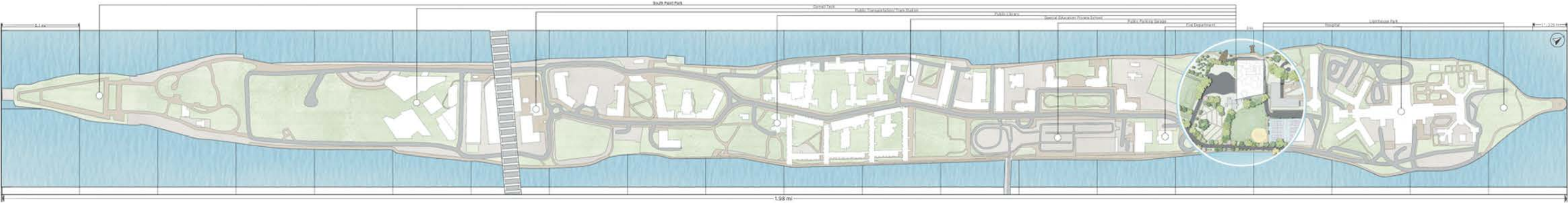
302 - Davide Landi - Roosevelt Island, NY

Spring 2024
Individual Project



COMMON HORIZONS - LOW INCOME HOUSING

302 - Davide Landi - Roosevelt Island, NY



Drainage/ Sewage

- Main Line
- Main Storm Drain
- Building Output
- Fire Hydrant
- Outfall
- Pump Station
- Building Collection

Noise Pollution

Less Noise ————— More Noise

Sun Path

- Summer
- Spring/ Fall
- Winter

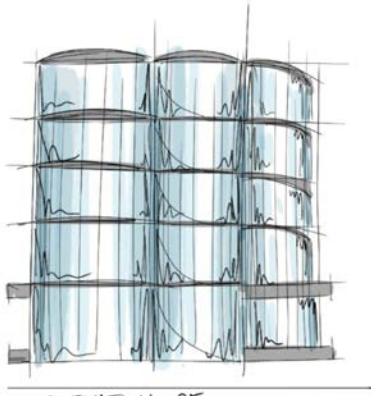
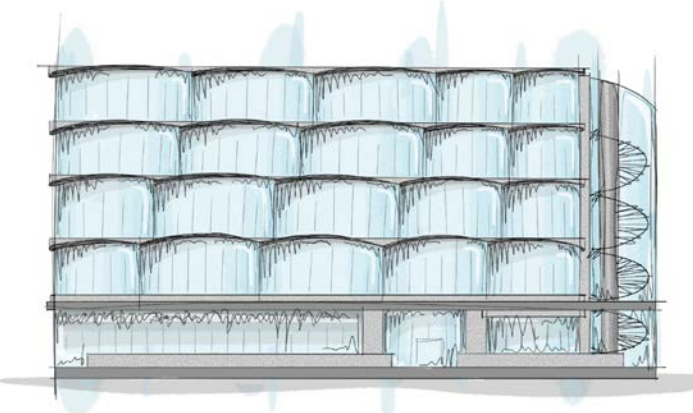
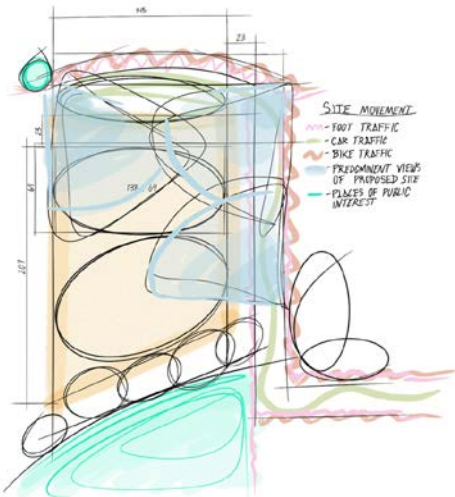
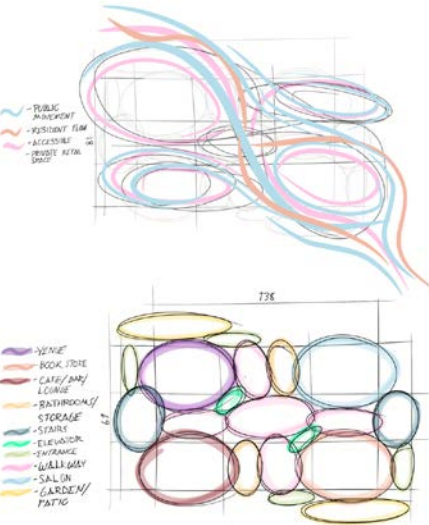
Prevailing Winds

- Winter Winds
- Summer Winds

Foliage

- Tree 1
- Tree 2
- Tree 3
- Tree 4
- Tree 5
- Tree 6
- Tree 7

Site Analysis



ELEVATION SE

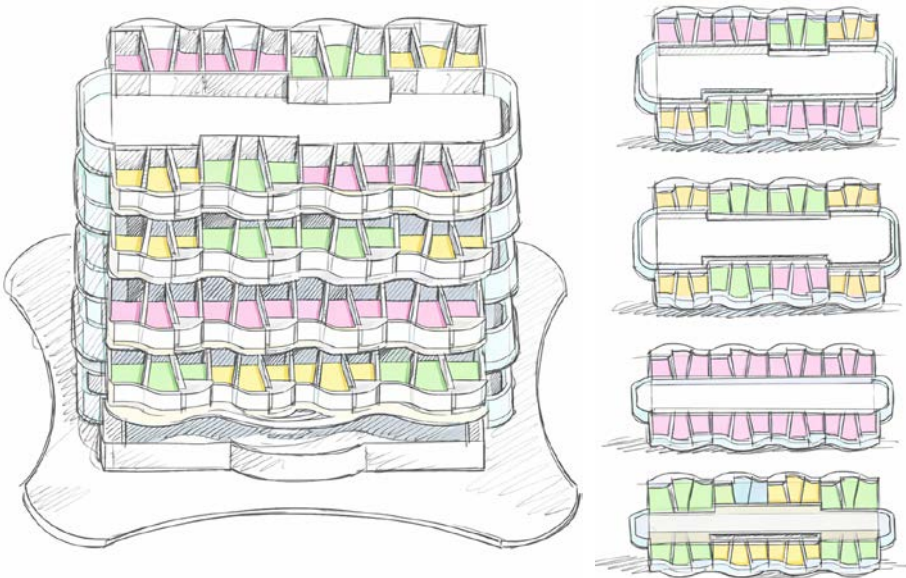
Initial Concept Sketches

Roosevelt Island, the thin strip of land between Manhattan and Staten Island, is typically considered an undesirable and inaccessible spot for native New Yorkers. People commute along the A Line every day over the island, but few get off to their final destination.

The Common Horizon housing project for low income families utilizes the isolated nature of Roosevelt Island to help people get back on their feet. The housing development is aimed toward finding employment and purpose which are integral for life satisfaction. Cafes, vegetable gardens, therapy groups, daycare, and job application mentorship foster a self-sustaining environment for struggling families to thrive.

COMMON HORIZONS - LOW INCOME HOUSING

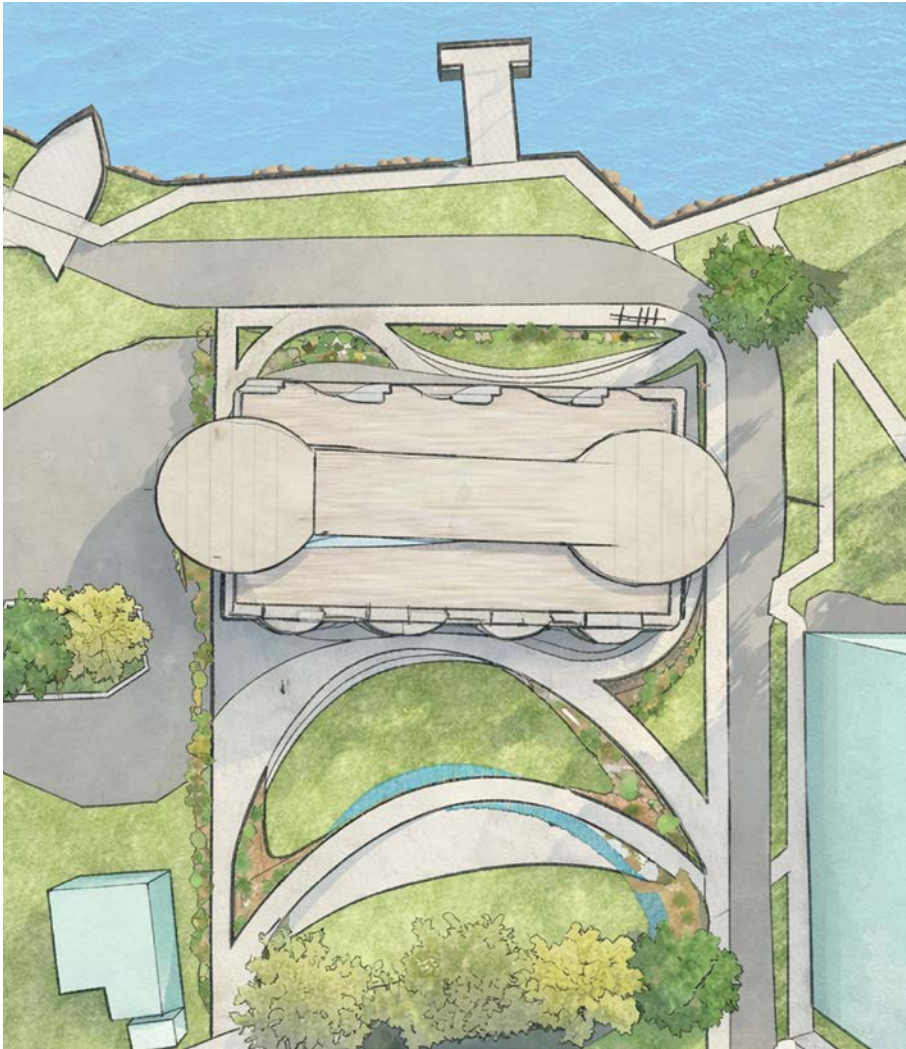
302 - Davide Landi - Roosevelt Island, NY



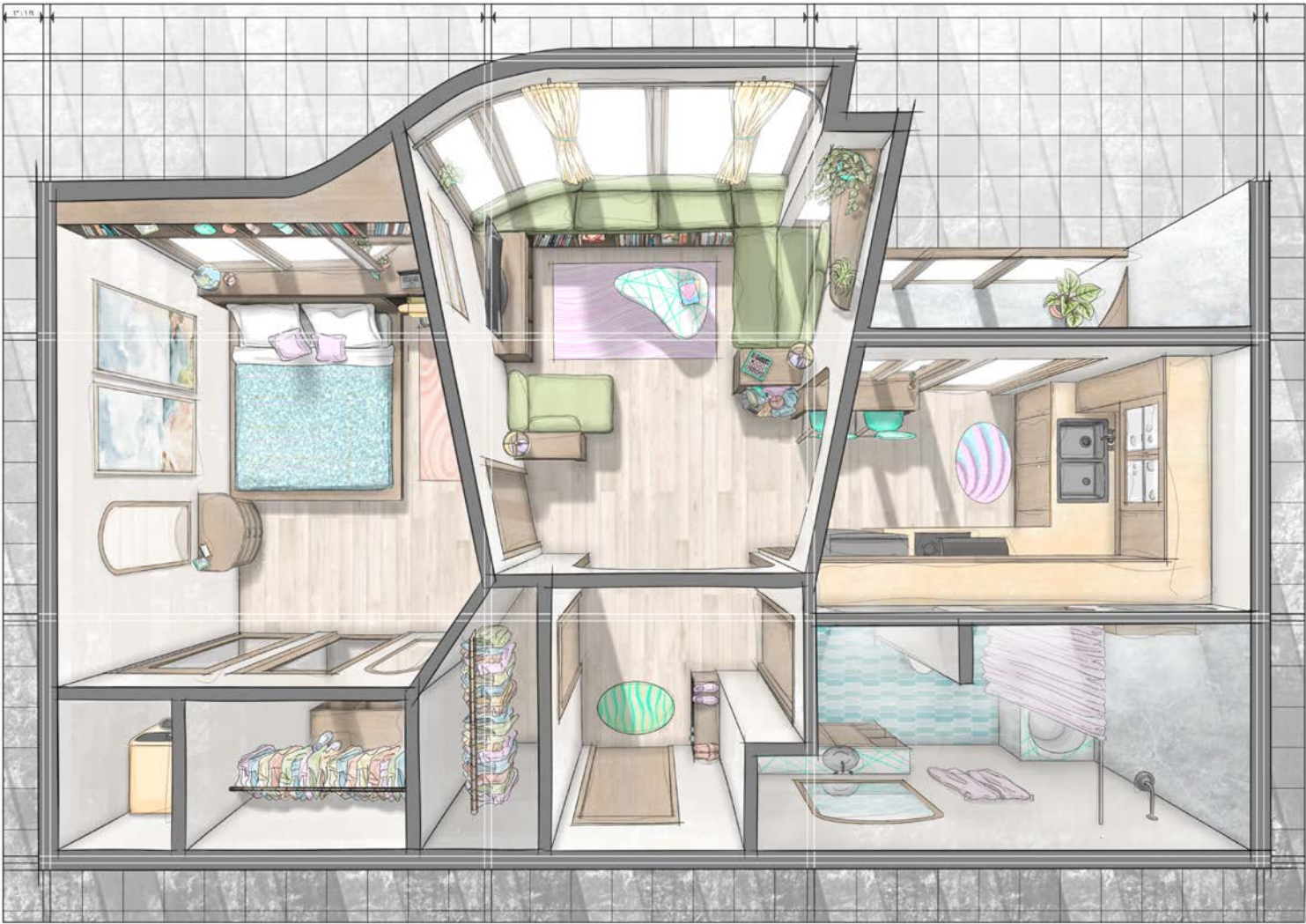
Room Assignment Exploded Axon



Perspective 3



Site Plan



One Bed Apartment Plan

Common Horizons was designed to be a safe refuge space for single parent families and families with financial struggles. A self-sustainable environment where everyone shares a common goal.

The counterintuitive design process began with a layout of a 600sqft one bedroom apartment space for the target demographic. I knew I would eventually have to design the rest of the building, so I decided to implement an interesting facade immediately.

The facade was designed to mimic the effect of waves crashing over by stacking the apartments so that the sun path casts dramatic shadows along the balconies. The unique exterior wall was an aesthetic design choice that needed to be justified by the interior layout.

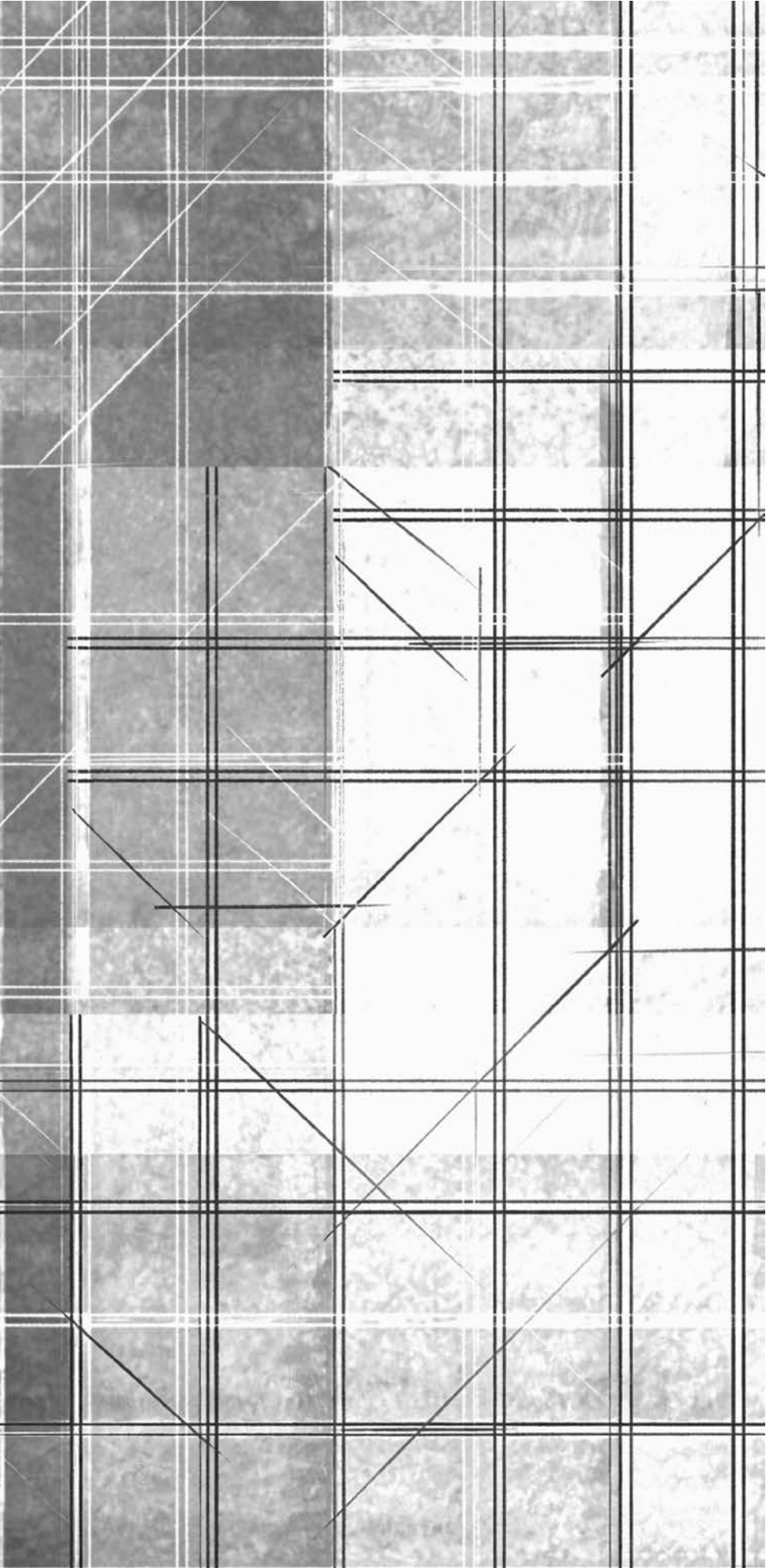
The Interior of a one bedroom apartment follows the natural rules of feng shui and spacial orientation to create a multi-functional space that can sleep 2-4 people comfortably. Through my prior research, I had found a few key elements that would improve the life of its occupants and adhere to basic human comforts.

I used simple rules to layout the rooms, like the bedroom should never be the first accesible door upon entry, or utilities should share a common wall. Then I used personal preferences to move the laundry room closer to the closet and added a balcony for essential fresh air. The installation of windows above the kitchen cabinets allows for natural light to access the bathroom and conserve energy for the building. I designed custom versatile furniture throughout the space such as the pull-out sofa for guests and the built-in seating to provide additional storage underneath.

CARNEGIE LIBRARY REUSE & COMMUNITY CENTER

401 - Shelby Doyle - Marshalltown, IA

Fall 2024
In Collaboration with Eric Cool

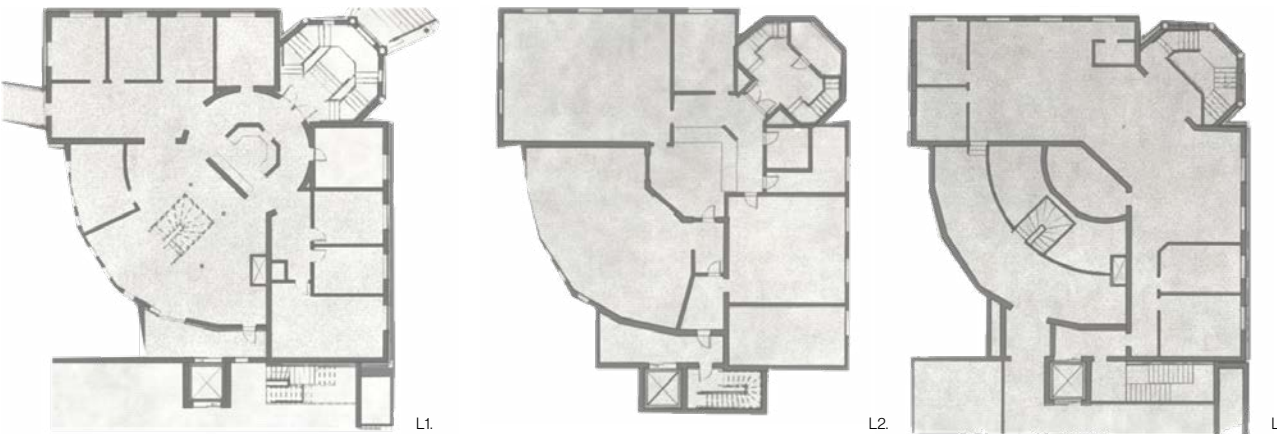


CARNEGIE LIBRARY REUSE & COMMUNITY CENTER

401 - Shelby Doyle - Marshalltown, IA



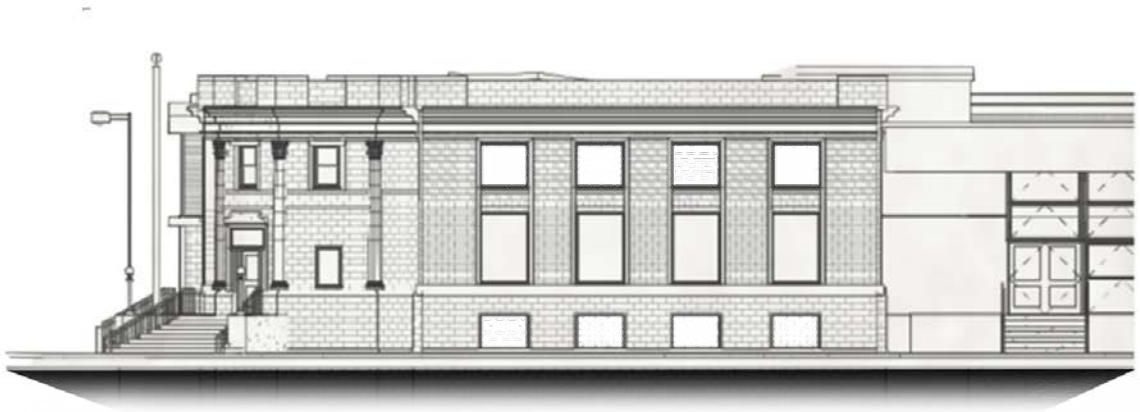
Axonometric Detail Drawing



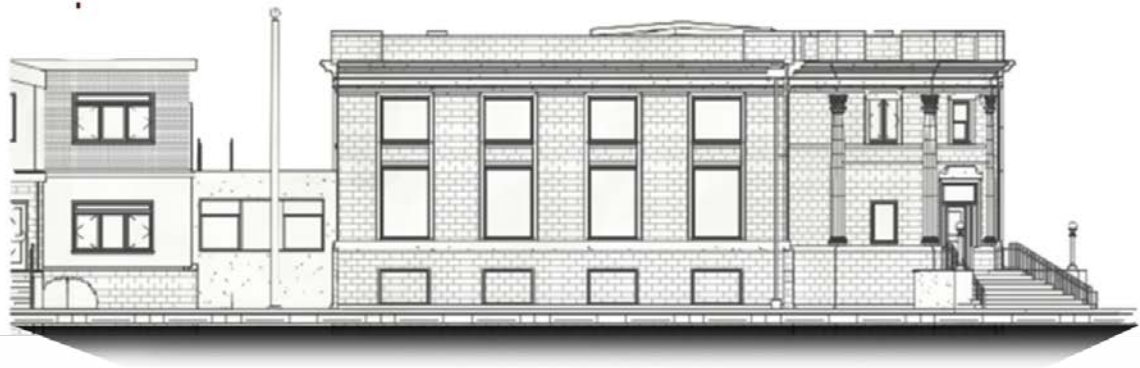
Original Library Floor Plans



Original Exterior Perspective



N. Elevation



E. Elevation

Through adaptive reuse and the addition of a large community center, the old Carnegie Public Library is reimagined to help the community and carry Andrew Carnegie's original intention of accessible public education.

Sitting in the heart of a once promising industrial town, the shell of the original Carnegie Public Library now acts as a storage shed for the city municipality.

Marshalltown, Iowa was an industrial hub for central Iowa in the early 20th century, but after its two major factories closed in the 80's, half the town's population found themselves unemployed. The city never quite recovered as drug abuse and crime rates became increasingly prevalent.

Unfortunately, many individuals are still dealing with the trauma of a struggling household, and the current state of poverty and drug afflictions are unmistakably clear.

After a major tornado struck Marshalltown in 2018, most of downtown sits in disrepair with many stores fronts and restaurants boarded up. The dilapidated state of the city has had the largest impact on kids, as many come from struggling households that aren't receiving the resources they need because the school-board can't afford to help.

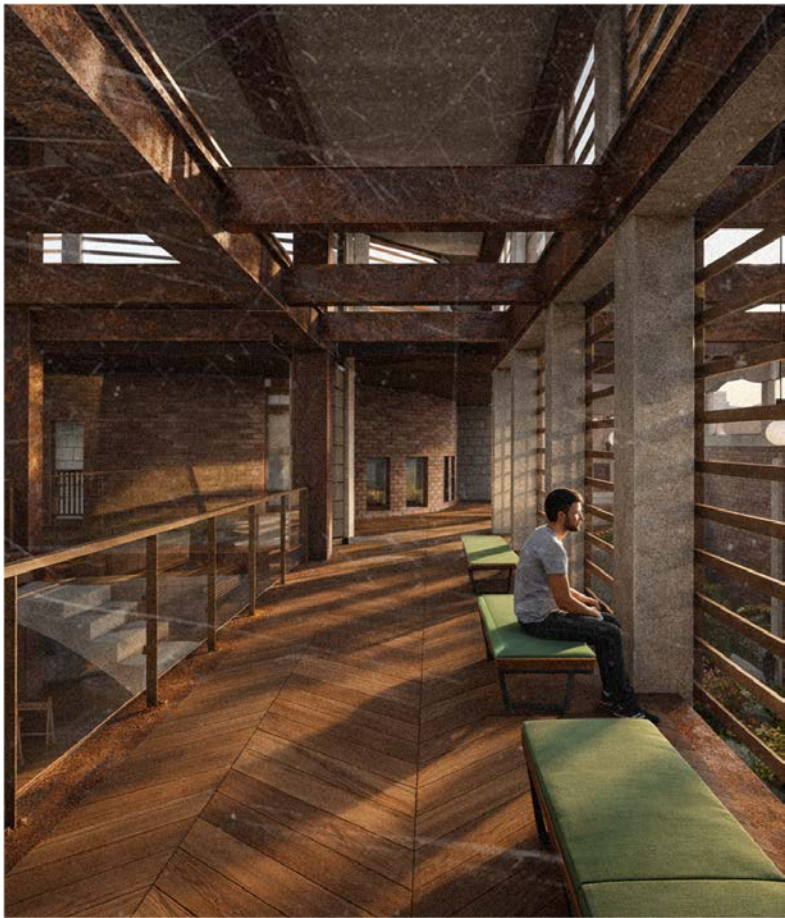
The Carnegie Library renovation and Community Center addition aims to provide a safe space for the community to learn and interact together. This would ideally help adults and kids get off the street and into a stimulating environment that features a variety of activity spaces and resources geared towards building strong life skills.

CARNEGIE LIBRARY REUSE & COMMUNITY CENTER

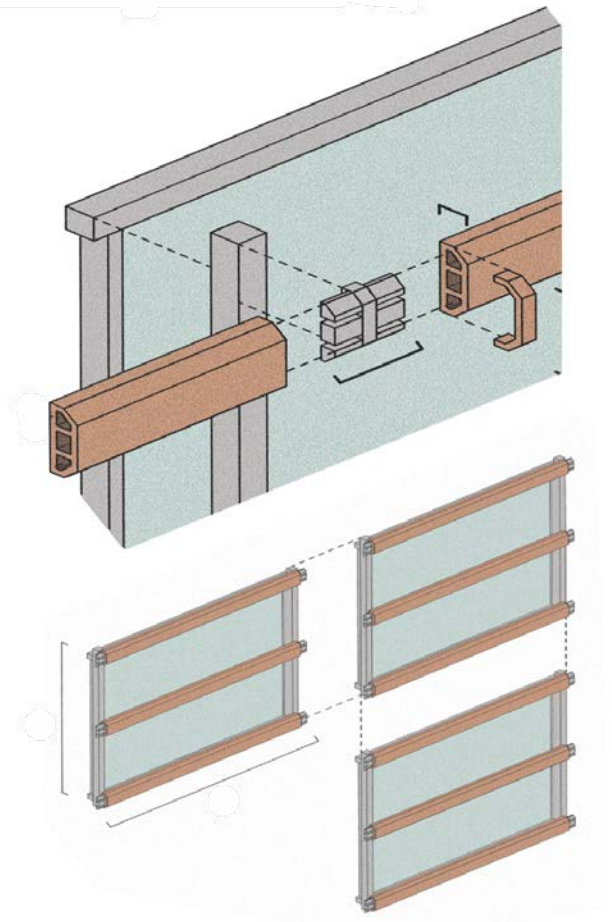
401 - Shelby Doyle - Marshalltown, IA



W. Perspective Section
N.



Perspective 3



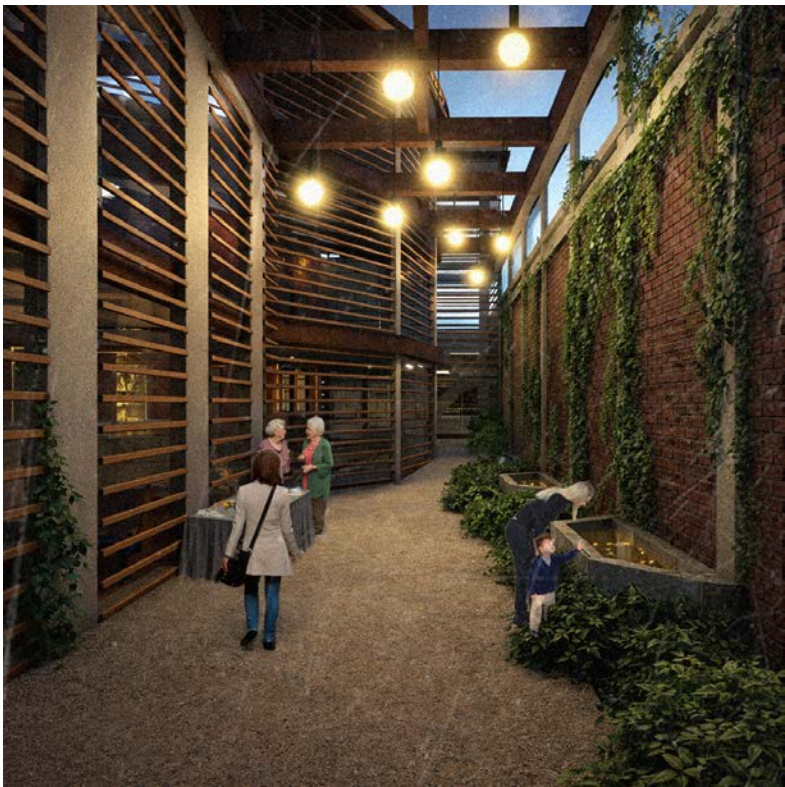
Cladding Detail Drawing



Site Plan



Elevations



Perspective 2

The renovation of the Marshalltown Carnegie Library into an artist residency and community center aimed to revitalize and inspire the public through collaboration and access to a variety of creative spaces.

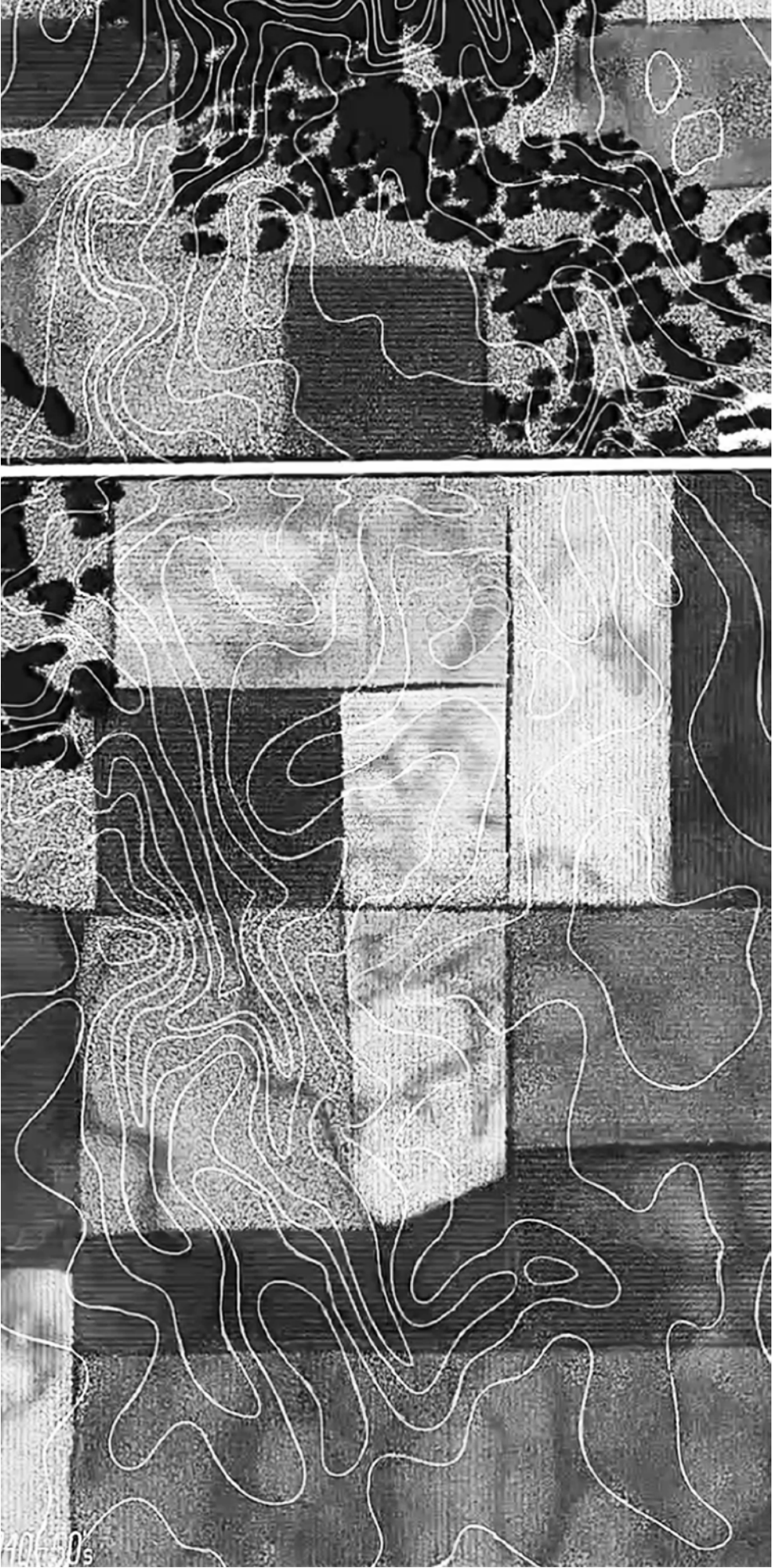
With the intention of preserving the frame of the original Carnegie Library, the 30,000 sqft addition had to complement the original Neoclassical style without copying it. The design uses a similar language of hierarchy, rythm, and symmetry, but intervenes through modern material usage, irregular geometry, and Current Accessibility Requirements.

Extending the original curve of the library to show the existing brick facade creates a welcoming intellectual environment for creatives. The remaining space becomes a multipurpose courtyard for community gathering.

PRAIRIE REVIVAL - CONSERVATION CENTER

301 - Roman Chikerinets - McFarland Lake Park, IA

Fall 2023
In Collaboration with Ryan Ruppel & Ella Carlock



PRAIRIE REVIVAL - CONSERVATION CENTER

301 - Roman Chikerinets - McFarland Lake Park, IA

Seasonal Retention Vista
(Refer to Section Four of Site Plan)

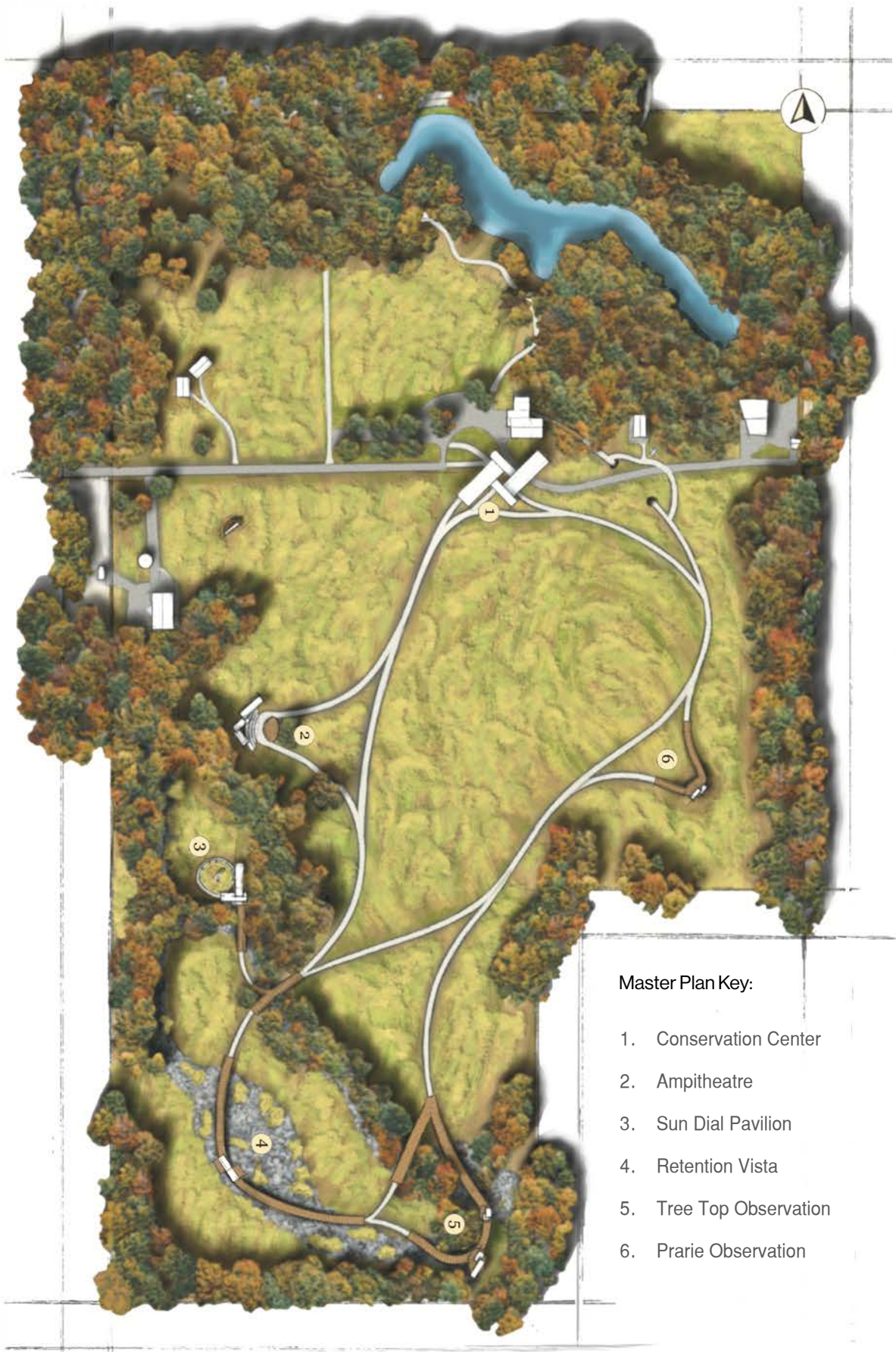


A retention swale and lookout vista to observe the natural rolling prairies of Iowa.

After guests pass through a series of immersive conservation spaces, they find themselves in the lowest topographic section of the park. By implementing a retention swale, guests are incentivized to return and experience the space seasonally. The utilization of local stone and wetland plants on site aim to improve biodiversity without impacting the natural topography or drainage.

PRAIRIE REVIVAL - CONSERVATION CENTER

301 - Roman Chikerinets - McFarland Lake Park, IA



- Master Plan Key:
- 1. Conservation Center
 - 2. Ampitheatre
 - 3. Sun Dial Pavilion
 - 4. Retention Vista
 - 5. Tree Top Observation
 - 6. Prarie Observation

Master plan



Main Entrance Perspective



Main Atrium Perspective

The Conservation Center was designed to promote circulation and exploration while preserving the natural beauty of the area.

Tucked within the gentle landscape, of rural Iowa, Prairie Revival maintains a harmonius relationship with the land, refusing to further terraform the region. While the land had been worked by farmers for over a century, Prairie Revival takes a more passive approach by letting nature take the lead, and potentially reintroducing key native species.

An internal central passage opens to the natural elements, giving guests a space to decompress and connect with nature from indoors.

The main atrium was designed to immerse the guests into the prairie and cast sunlight throughout the day.

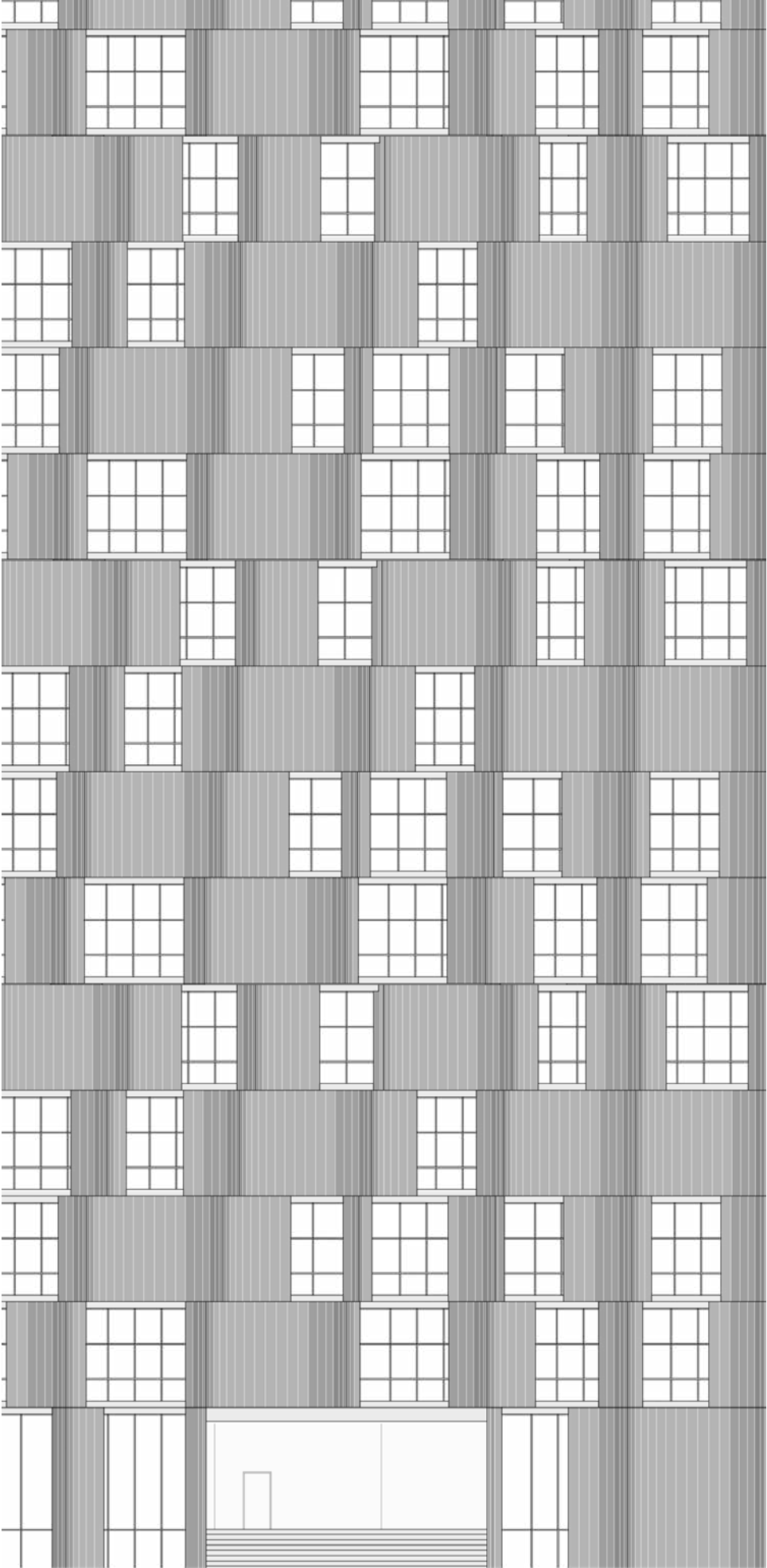
By planting a shallow bed of lowlight prairie species inside, I created an infinity pool effect that blends the main atrium seamlessly into the surrounding prairie. One-way mirror glass allows for optimal viewing from the inside while not obstructing the landscape from an exterior perspective.

This multi-purpose atrium space was designed to isolate and absorb sound, allowing meetings, tours, parties and other social gatherings to enjoy the scenery.

VERUM SANCTORUM - REFUGEE HOUSING

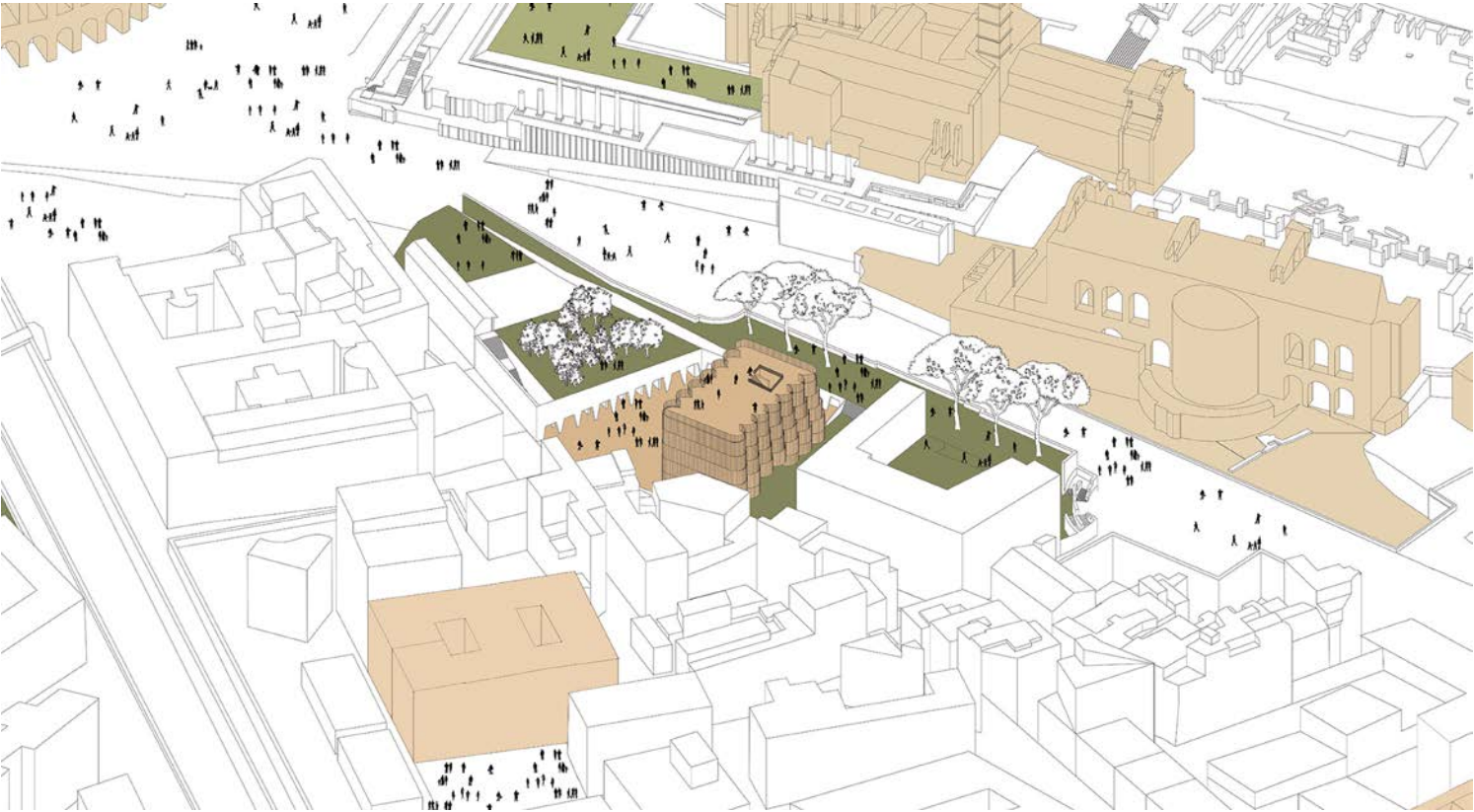
402 - Consuelo Nunez Ciuffa, Rome, IT

Spring 2025
In Collaboration with Maggie Wolfe & Gillian Gilinokis



VERUM SANCTORUM - REFUGEE HOUSING

402 - Consuelo Nunez Ciuffa, Rome, IT



Axonometric Site Diagram

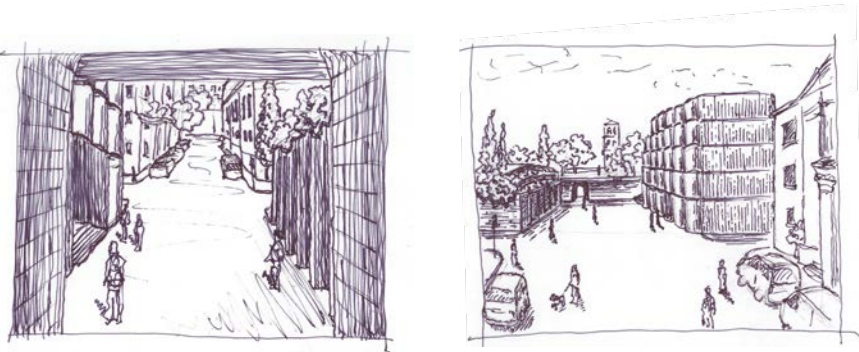


Perspective 3

Verum Sanctorem is a sanctuary for the many refugees that come to Italy in search of asylum and employment.

Across the road from the ancient ruins of the Roman Forum and Colosseum sits a small overgrown plot of land isolated by an infamous wall from the fascist era.

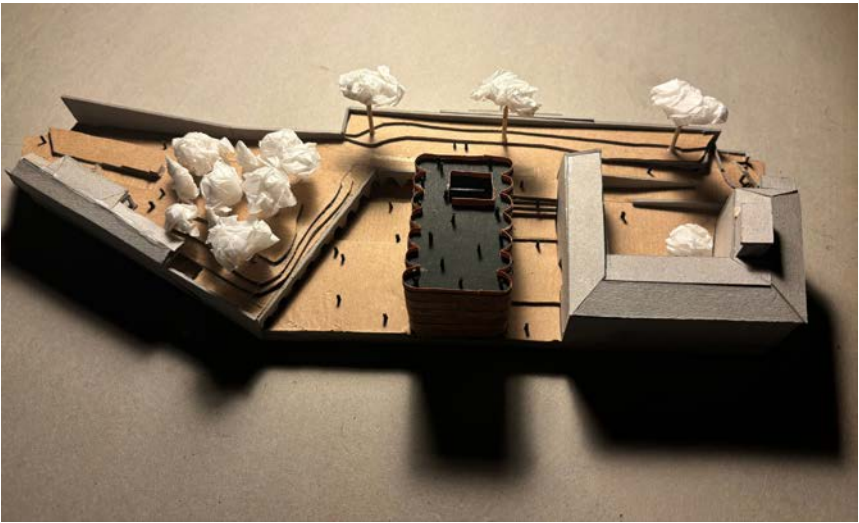
Millions of unaware tourists pass by the site annually, as they rush to nearby landmarks, while many refugees linger in the area trying to sell small handmade trinkets. While these refugees are often viewed as intrusive or threatening, they come from unimaginable conditions with little identification or access to the resources they need. Verum Sanctorem utilizes the privacy of the site to house refugees temporarily and provide crucial support through Italian language courses, job application specialists, peer mentors, and documentation specialists



Early Sketch Iterations



Perspective 2

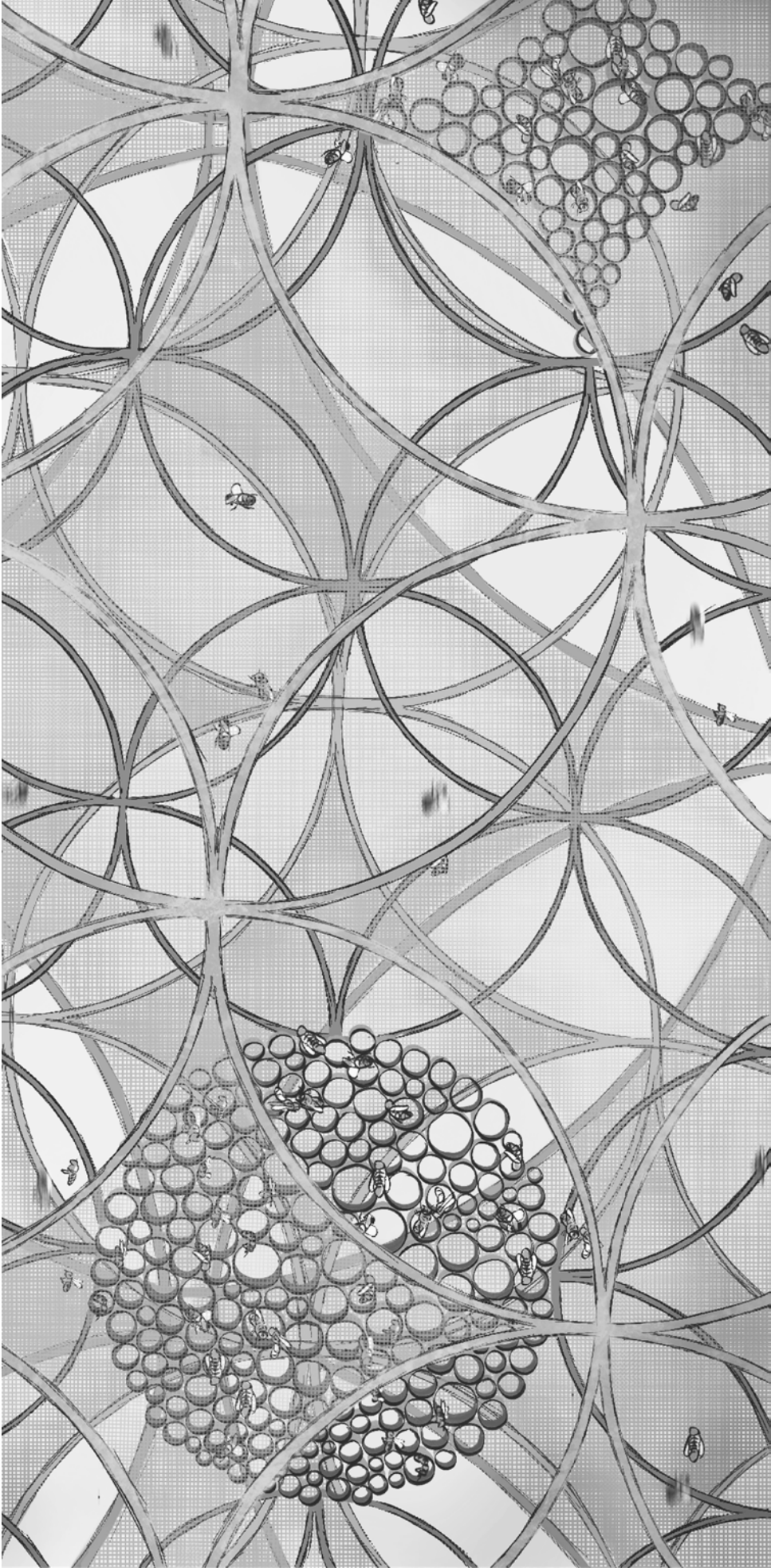


1/64" = 1' Scale Model

PRAIRIE FORWARD - PUBLIC INSTILLATION

301 - Roman Chikerinets - McFarland Lake Park, IA

Fall 2023
Individual Project

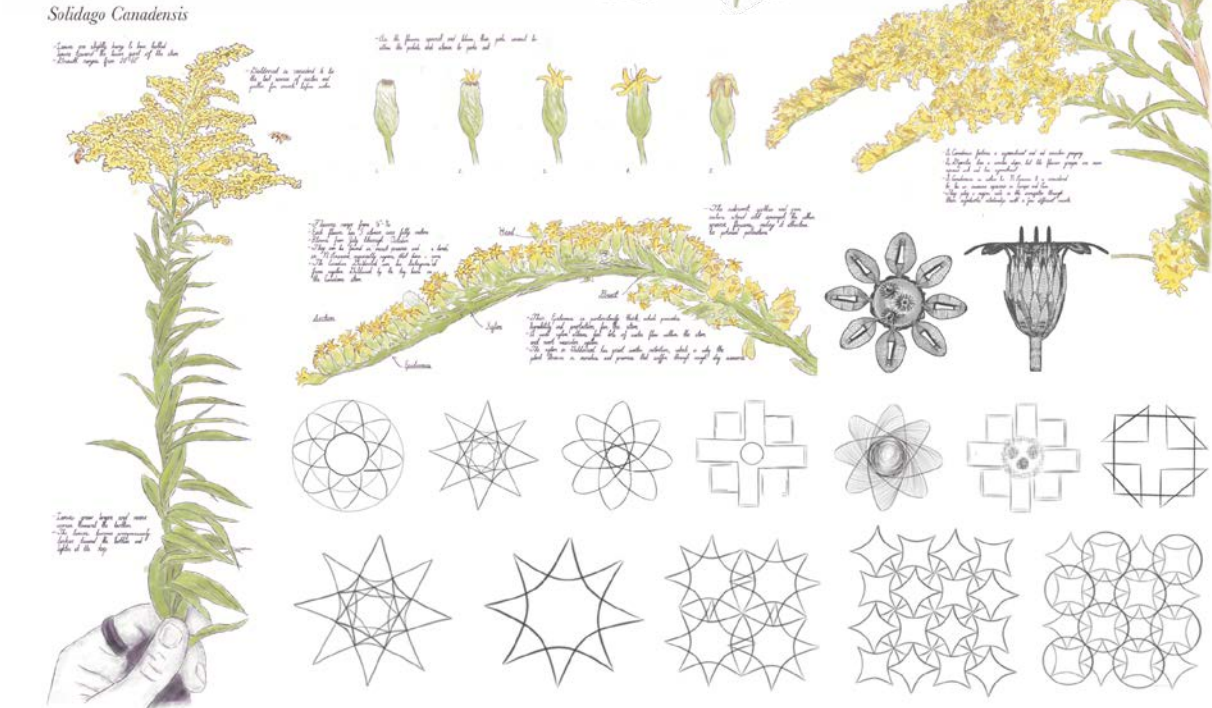


PRAIRIE FORWARD - PUBLIC INSTALLATION

301 - Roman Chikerinets - McFarland Lake Park, IA



Perspective 1



Canadian Goldenrod Geometric Study



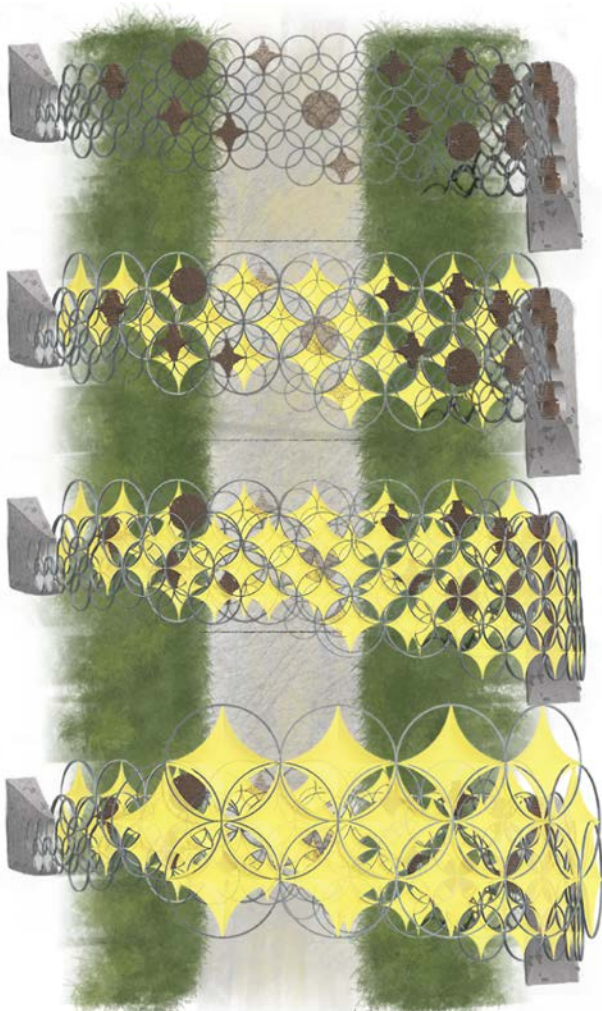
N. Elevation



S. Elevation



Top View



Layers

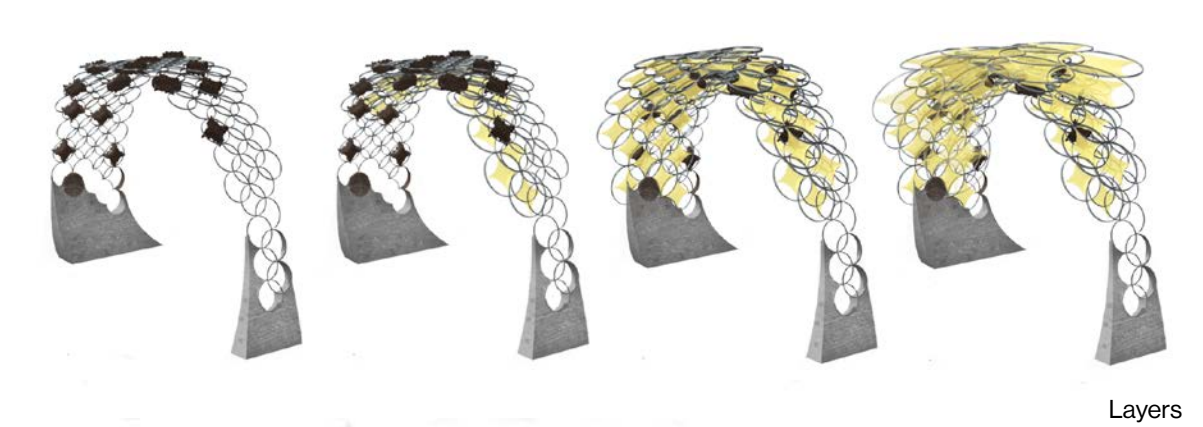
An instillation and bee habitat designed to slow down the public and provide awareness about the vital impact bees have on the ecosystem.

Iowa is one of the the most important agricultural states in the United States, so most of the land has been cultivated leaving very few truly conserved areas in the state. The insects that rely on prairie flowers also help cultivate farm fields, meaning they are crucial to agriculture.

Upon visiting the park, I noticed one wild flower, Canadian Goldenrod, had a far greater ratio of bees to stem. Research showed that bees have a limited perception of the color spectrum, leaving them particularly more attracted to bright colors, like the colors of Goldenrod.

PRAIRIE FORWARD - PUBLIC INSTALLATION

301 - Roman Chikerinets - McFarland Lake Park, IA



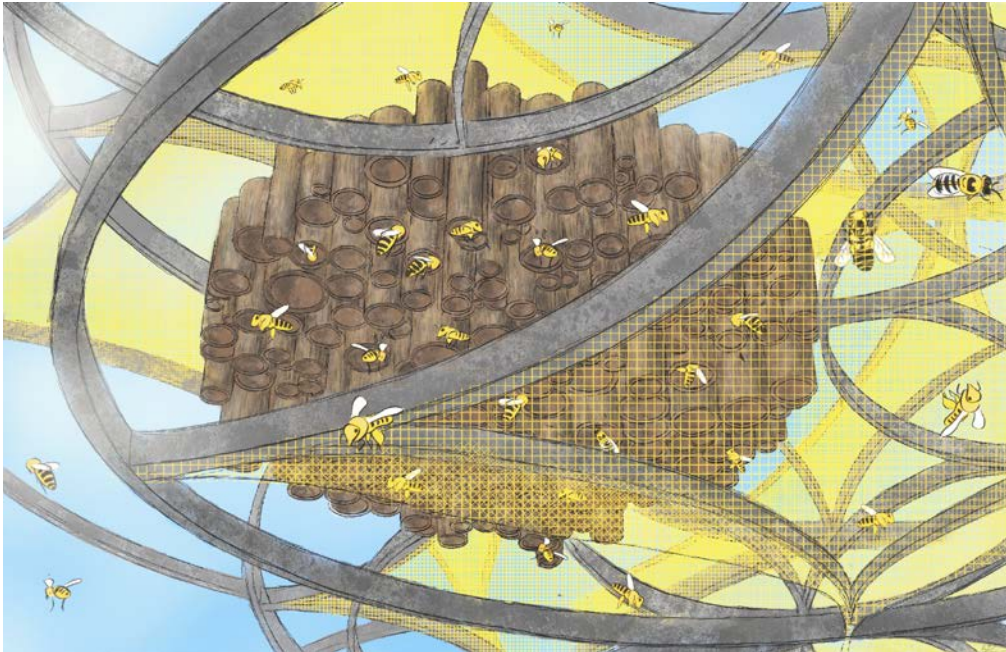
Layers



Render 3



Perspective 4



Public Perspective



W.Elevation



E.Elevation

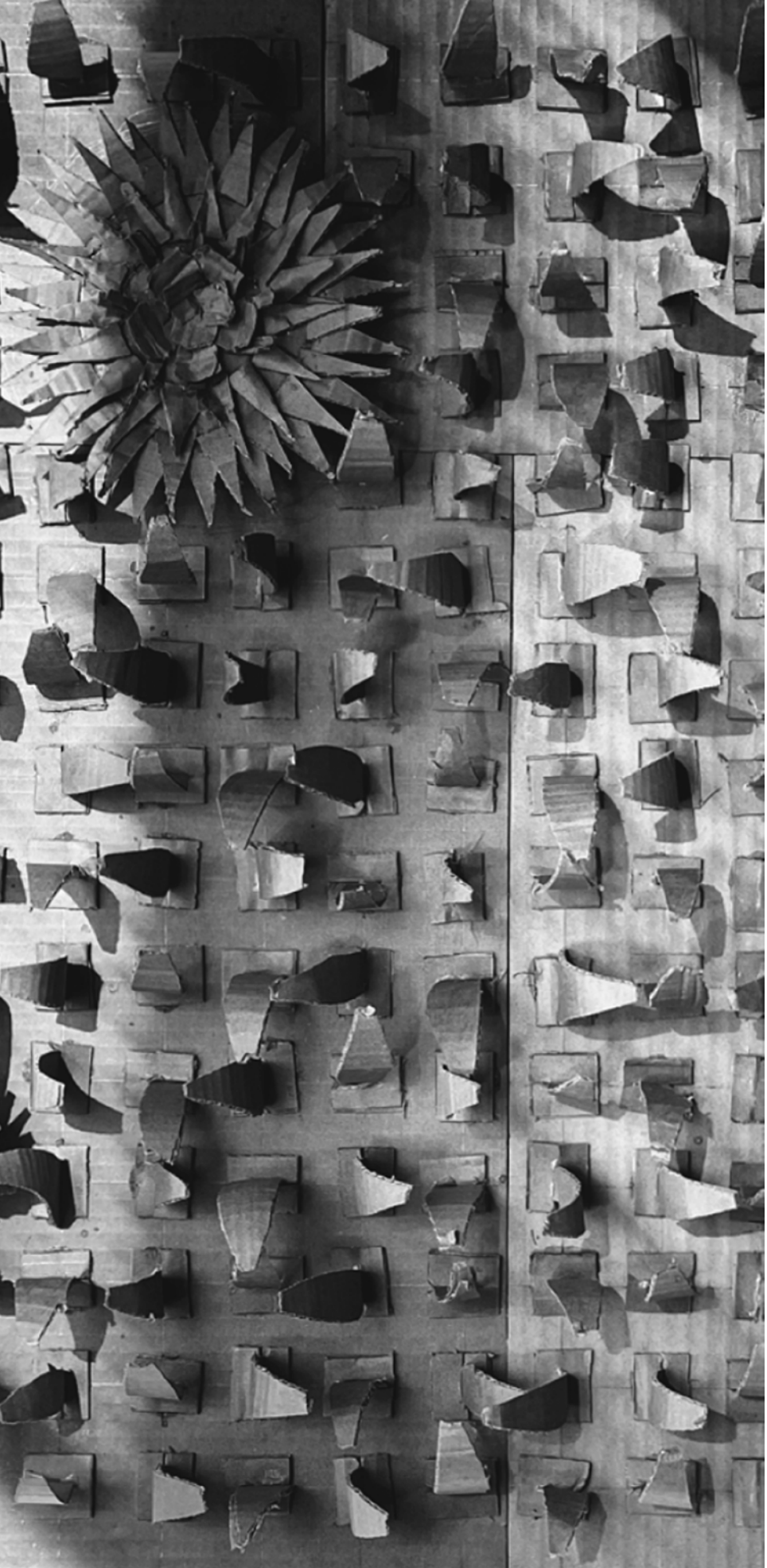
Inspired by the organic shape of Goldenrod and the geometric sequences found from the plants study, I designed a layered system of habitats to give the public a protected view of the bees that keep the prairie alive.

A thin yellow mesh attracts the bees to hollow wood cylanders for them to rest in. The mesh has small holes to allow for public viewing, while still holding off water droplets and birds.

ISU ARBORETUM - PUBLIC PAVILION

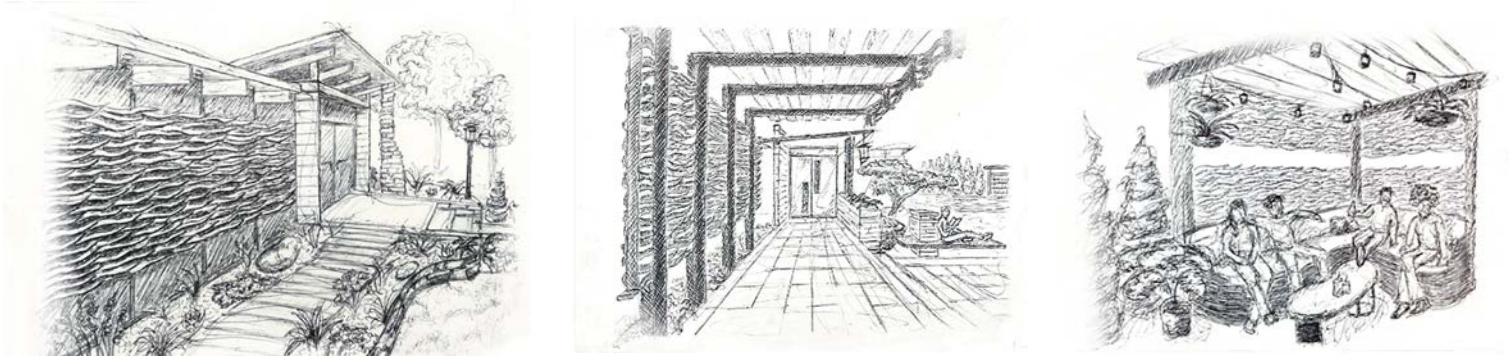
202 - Reinaldo Correa-Diaz - Iowa State University Arboretum, IA

Spring 2023
Individual Project



ISU ARBORETUM - PUBLIC PAVILION

202 - Reinaldo Correa-Diaz - Iowa State University Arboretum, IA



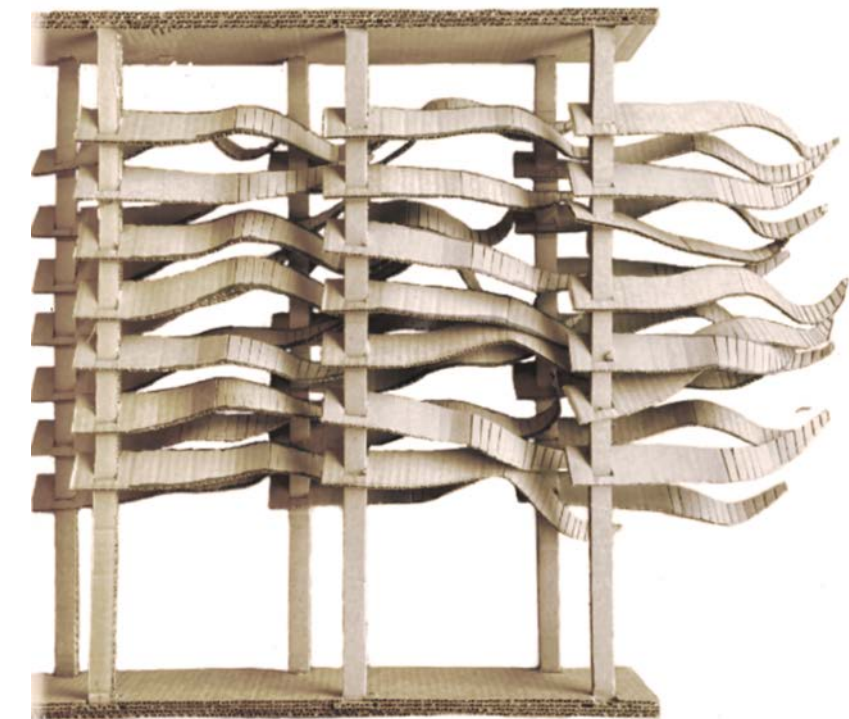
Material Function Sketches



Material Function Manifesto



Material Function Iterations



Prototype 7

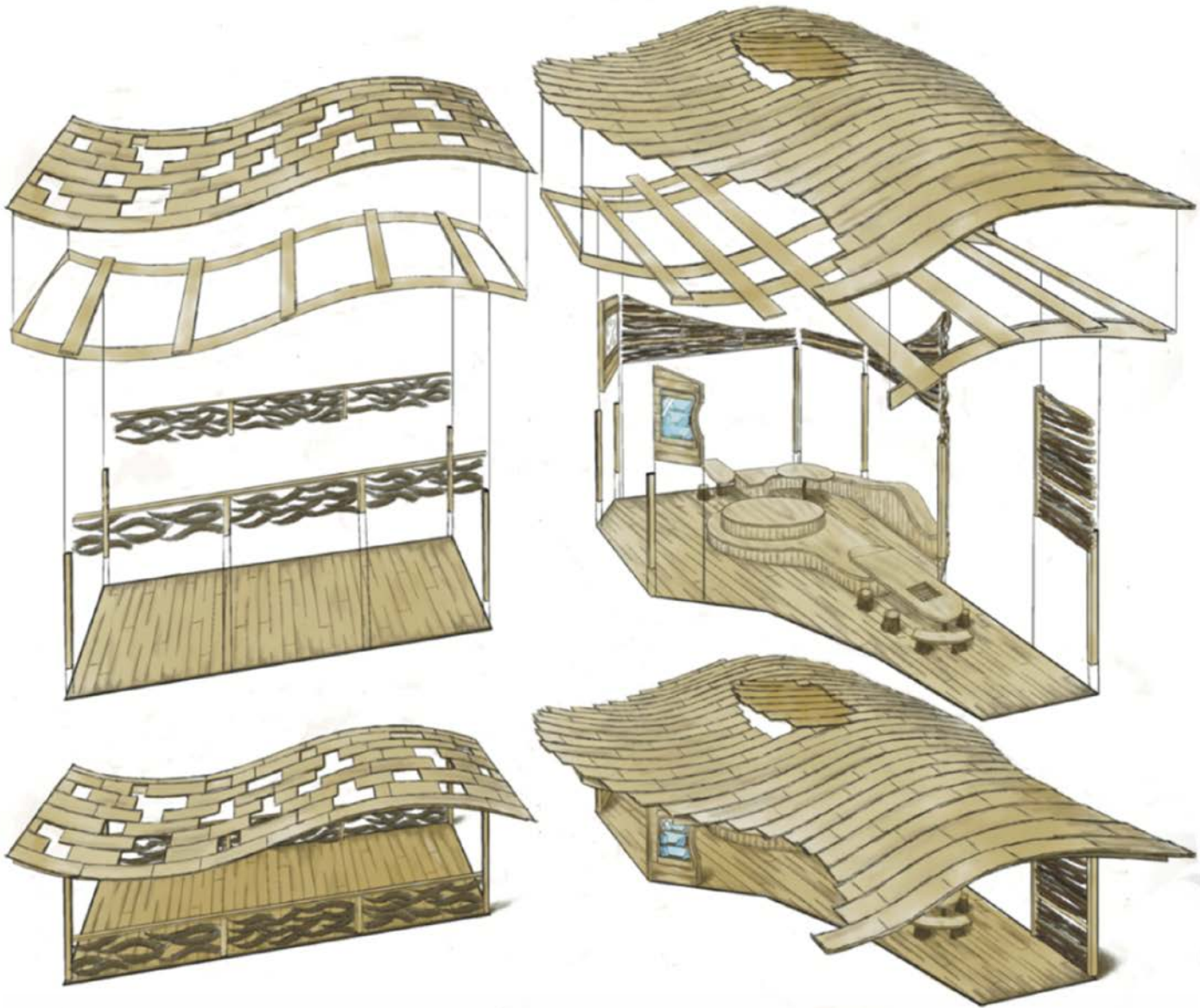
Inspired by the ergonomic functionality of the Gufram Pratone chair by Pietro Derossi, I created a number of biophilic coverage examples to determine which system was touched and interacted with the most.

Testing the durability and flexibility of various types of cardboard garnered a new appreciation for the maliability of the material. Slicing the cardboard along the corrugation lines allowed the material to bend on one axis and maintain structural integrity along every other axis.

A scaled prototype of the design was produced along with drawings of the potential applications. Though successful, the reviewers couldn't help but fidget with the prior study models.

ISU ARBORETUM - PUBLIC PAVILION

202 - Reinaldo Correa-Diaz - Iowa State University Arboretum, IA



Exploded Axon



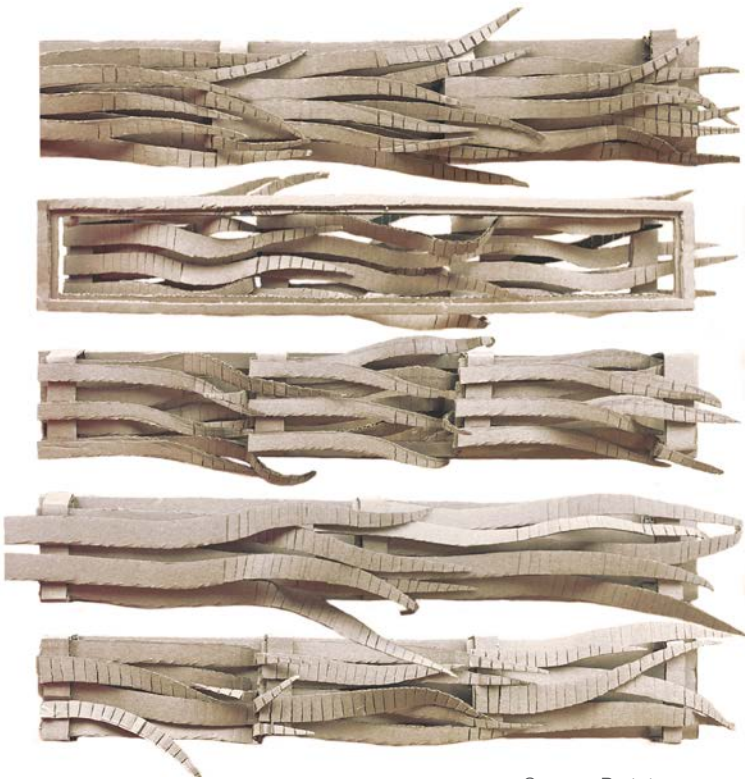
3/8" = 1' Physical Model



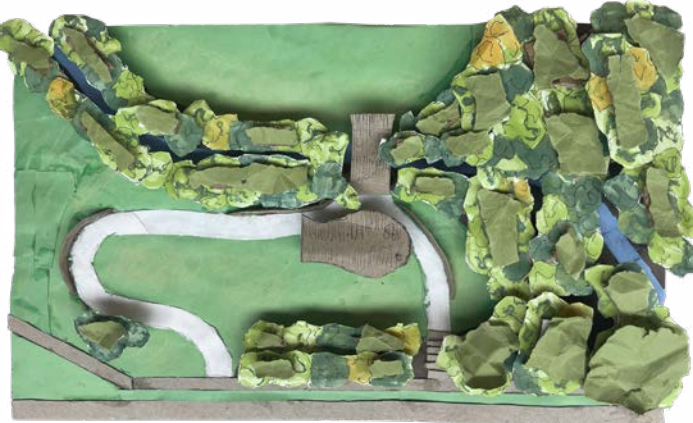
Entrance Perspective



Model Interior Photo



Sensory Prototypes



1/16" = 1' - Site Model

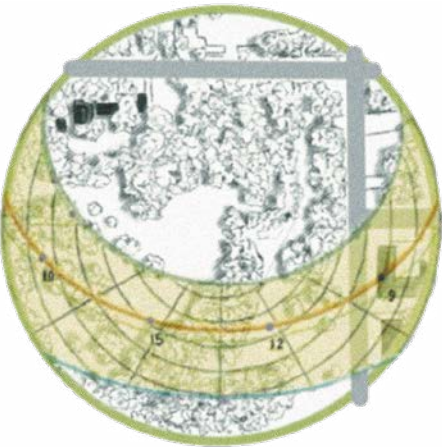
A pavilion and entrance path designed to gather attention from the street and guide the public to the main threshold of the arboretum.

Legible signage, a clear entrance point, and a gentle ramp offer an alternative to the current dangerous conditions that are a liability for the University.

A system of sensory walls utilizing the biophillic cardboard studies guide guests along the path, distracting them from the road and building anticipation for whatever lays beyond the pavilion bridge.

ISU ARBORETUM - PUBLIC PAVILION

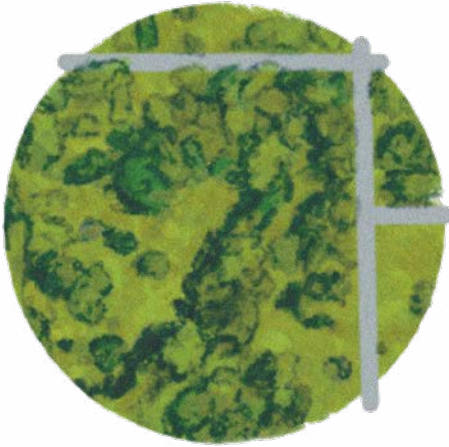
202 - Reinaldo Correa-Diaz - Iowa State University Arboretum, IA



Sun Path



Topography



Foliage



Campus Relation

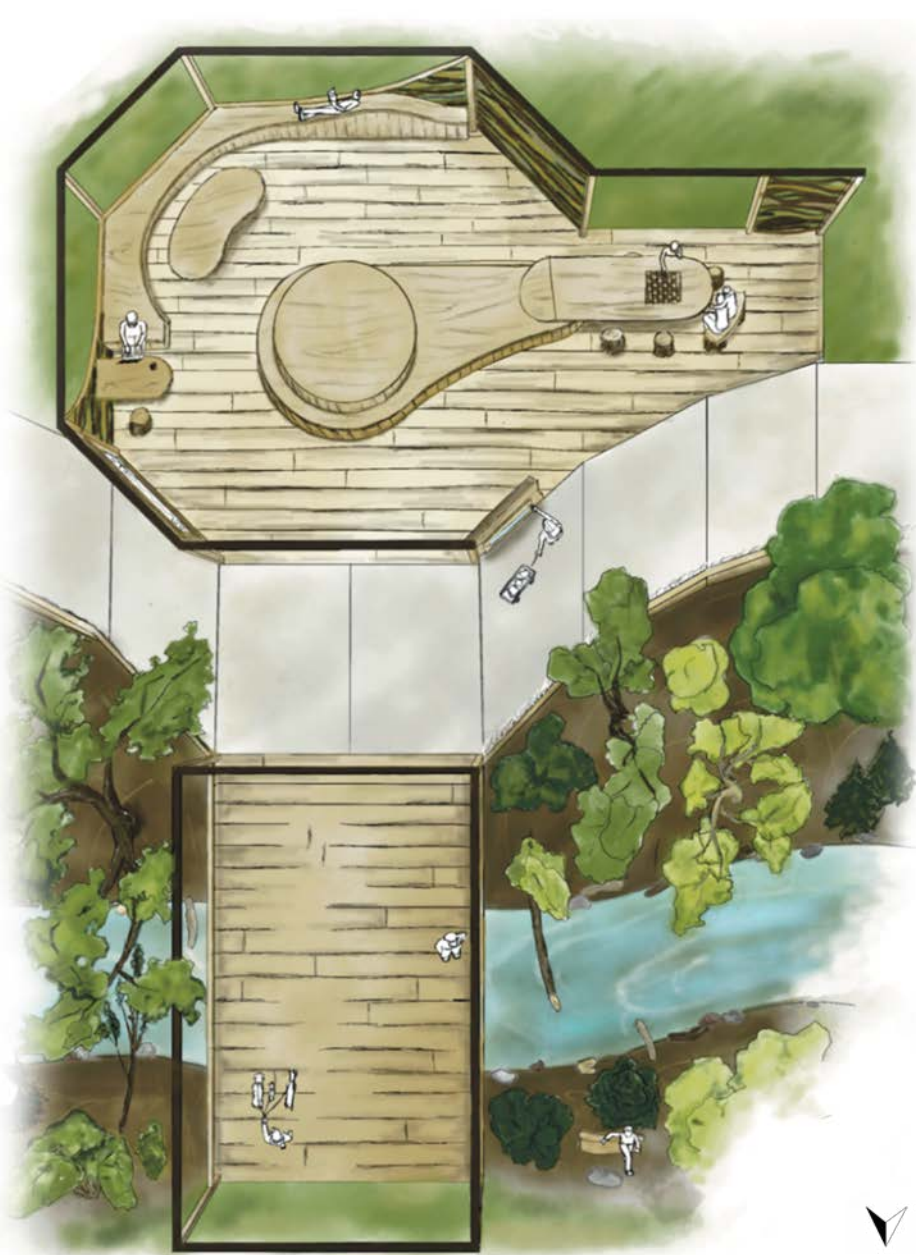
I chose to place my pavilion design in the Iowa State Arboretum because it holds a particularly special place in my heart. I have used the Arboretum as a comfort place to decompress and be with nature since my first week of University, and I have always felt that the location didn't receive the maintenance or public attention that it deserved.

Placing the pavilion before the bridge gave the public a glance of the space from the road, while hiding the main portion of the Arboretum until they get through the bridge section.

The interior of the pavilion features custom seating, tables, and mini library, as well as site maps marking the unique tree species from all over the world.



Experiential Render 2



Master Plan

SEAN M. DAUGHERITY

Architecture Portfolio - selected works

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Design Instagram - @sd_compiled

Resume:



<https://scanned.page/p/byA4g1>

My work explores the architecture of connecting people to place through immersive spacial experience and material clarity. Through a humanist perspective, I design thoughtful and accessible architecture that evokes strong emotional ties and deep-rooted memories. With a focus on human interaction, my designs balance clear structural stability, natural lighting schemes, and intentional transition spaces to subconsciously guide people through space. I aim to shape people's lives through considerate architectural intervention and enduring rational practices.

