

# **Undergraduate portfolio.**



**HALA  
HADDADIN**

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**Hala Haddadin**

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## EDUCATION

Orlando, FL  
May-2026

### University of Central Florida

*Bachelor of Design in Architecture*  
Emphasis: Art History  
Major GPA: 3.9

### HONORS AND SHOWCASES

Presented work at 'UCF Celebrates the Arts' at The Dr.Philips Center of Preforming Arts  
President's List Valencia, Dean's list Valencia, Dean's list UCF

### PROFESSIONAL EXPERIENCE

Virtual  
Dec 2022–Mar 2025

#### Go peer

*Tutor*

Tutored students from first to 8th grade on various topics such as Math and English, with a primary focus on History and English tutoring  
Assisted second language students in all aspects of their learning and provided a comfortable learning environment tailored to individual needs

Winter Park. FL  
Aug 2023-Jan 2024

#### Albin Polasek Museum

*Receptionist/Docent*

Worked on welcoming and keeping tabs on guests at the reception, as well as providing visitors with the necessary information to enjoy their visit

Orlando, FL  
Sep 2023-Nov 2023

#### The Tile Shop

*Design Consultant*

Assisted customers in designing a space suitable to their needs with the resources provided  
Designed multiple iterations of customer spaces  
Used sample products and render software to create spaces

Livonia, MI  
November 2020-March 2021

#### Ejot Fastening Systems

*Warehouse Associate*

Managed warehouse inventory and organization.  
Built and designed sample kits for customers.  
Shipped and received orders and restocked the warehouse.

### Leadership

#### Mentor - UCF Architecture Student Mentorship Program

Mentored a small group of architecture students through the use of different programs (such as Grasshopper/rhino/revit) and assisted in the transition to upper division.

#### Co-Founder - Leverage – 2019

Started a program in Oakland County, Michigan called *Leverage* focused on assisting English as a second language students during the pandemic. Over two-thirds of the eligible student body participated in the program. The result was that it was being expanded throughout the county.

#### Vice President (acting president) - Art History Club UCF

Part of the leadership team for the Art History Club from 2021 to 2025

#### American Institute of Architecture Students

UCF chapter member since 2024

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### SKILLS

**Language:** Fluent in English and Arabic

**Computer:** Proficient in Office 365 (Word, Excel, Access, and PowerPoint)

**Programs:** Adobe creative suite, 2D, 3D CAD, Revit, Rhino, Lumion

**Courses:** "Transportation, Sustainable Buildings, Green Construction", Adobe Photoshop, Revit 2023: Essential Training for Architecture (Imperial and Metric)

# ABOUT ME

## UCF

### ARCHITECTURE

FINAL-YEAR UNDERGRADUATE ARCHITECTURE STUDENT AT THE UNIVERSITY OF CENTRAL FLORIDA, BLENDING INNOVATIVE DESIGN WITH A STRONG FOUNDATION IN ARCHITECTURAL HISTORY. WORK FOCUSES ON CREATING SPACES THAT ELEVATE HUMAN AND COMMUNITY EXPERIENCES WHILE EMBRACING THE DYNAMIC POSSIBILITIES OF EMERGING TECHNOLOGIES. WITH HANDS-ON STUDIO EXPERIENCE AND A MINOR IN ART HISTORY, EACH PROJECT IS APPROACHED WITH A SENSITIVITY TO CULTURAL CONTEXT AND FUTURE POTENTIAL. PASSIONATE ABOUT EXPLORING THE DIVERSE DIMENSIONS OF ARCHITECTURE AND COMMITTED TO THE POWER OF COLLABORATION IN SHAPING MEANINGFUL, TRANSFORMATIVE SPACES.

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## PROJECTS

### 01. ROOSAVELT ISLAND TOWERS

A large scale tower project blending public and private space for 10,000 new residents

### 02. EAST KING STREET MATERNITY CENTER

A supportive care facility designed to promote dignity, comfort, and community well-being

### 03. ALASKA PHYSICAL THERAPY & COMMUNITY CENTER

Research-driven residential design rooted in environmental sustainability and site analysis

### 04. SYSTEMATIC TOWER

A climate-responsive healing and gathering space supporting both physical recovery and social connection

## PROJECTS

### 05. LOCH HAVEN PARK EDUCATIONAL PAVILION & CARDIOVASCULAR WELLNESS COMPLEX

A public space promoting health education, preventative care, and community engagement

### 06. MICHIGAN ENVIRONMENTAL RESIDENTIAL STUDY

A contemplative structure harmonizing with the historic and ecological character of the gardens

### 07. BOK TOWER GARDENS PAVILION

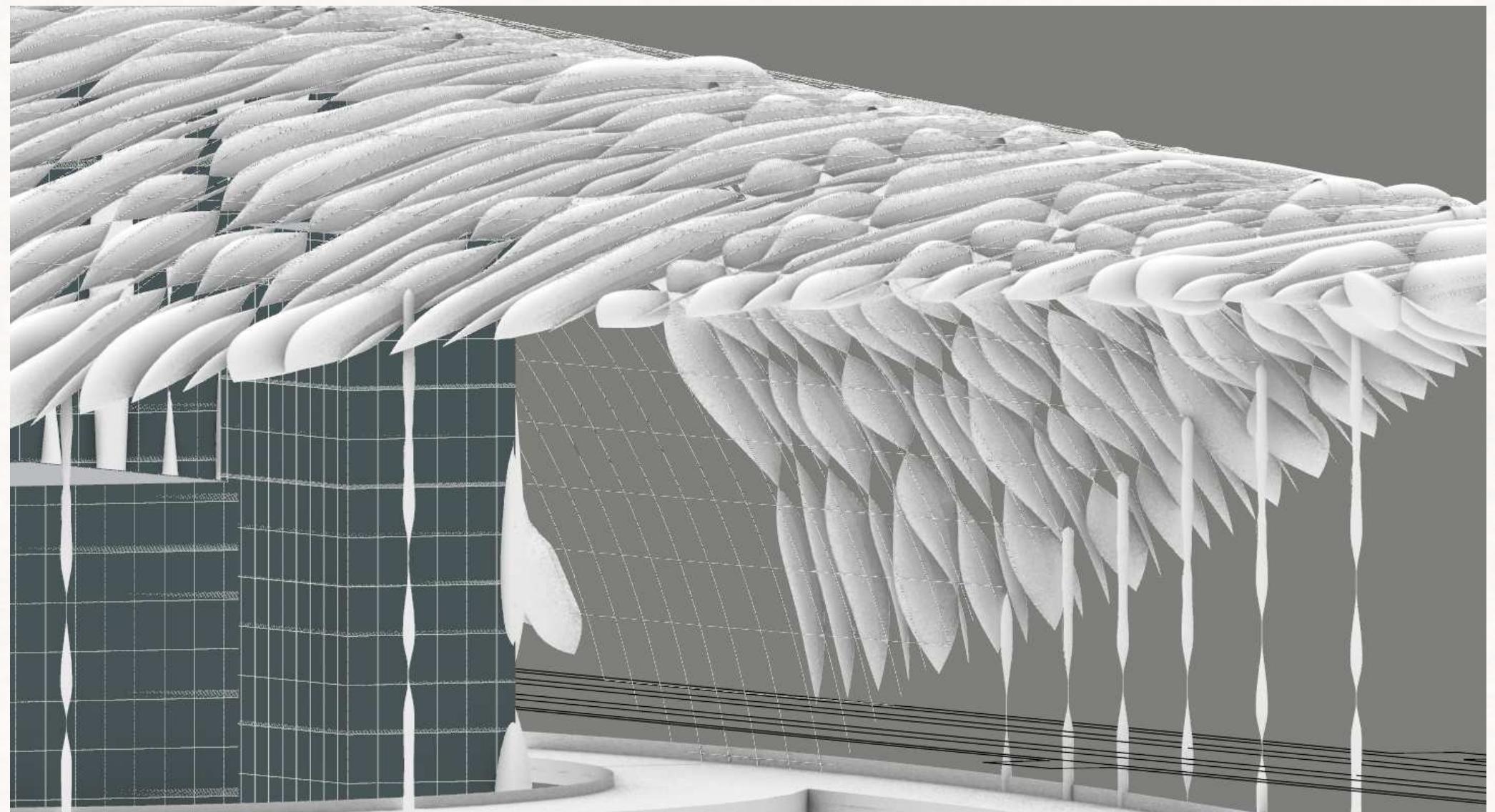
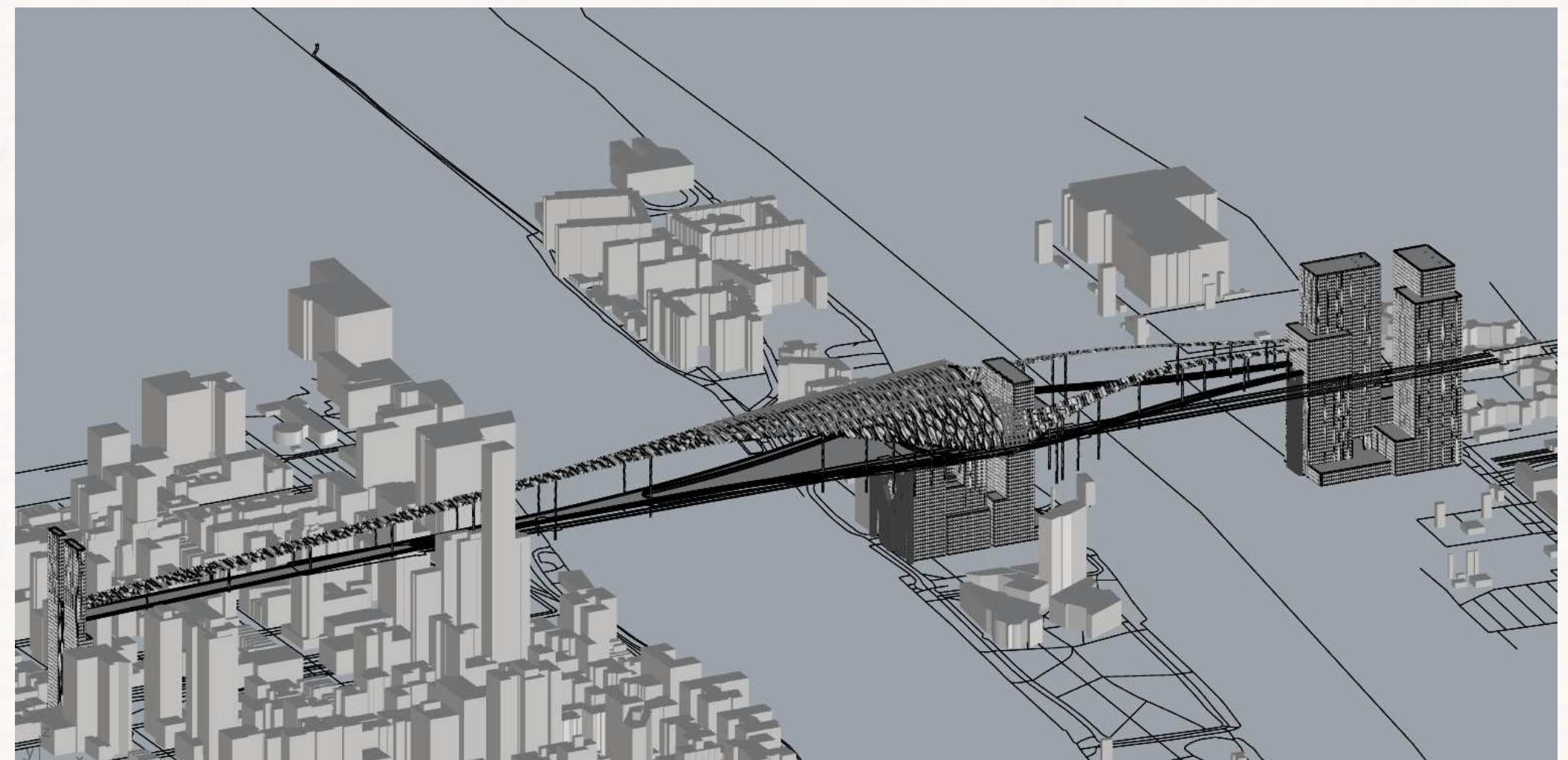
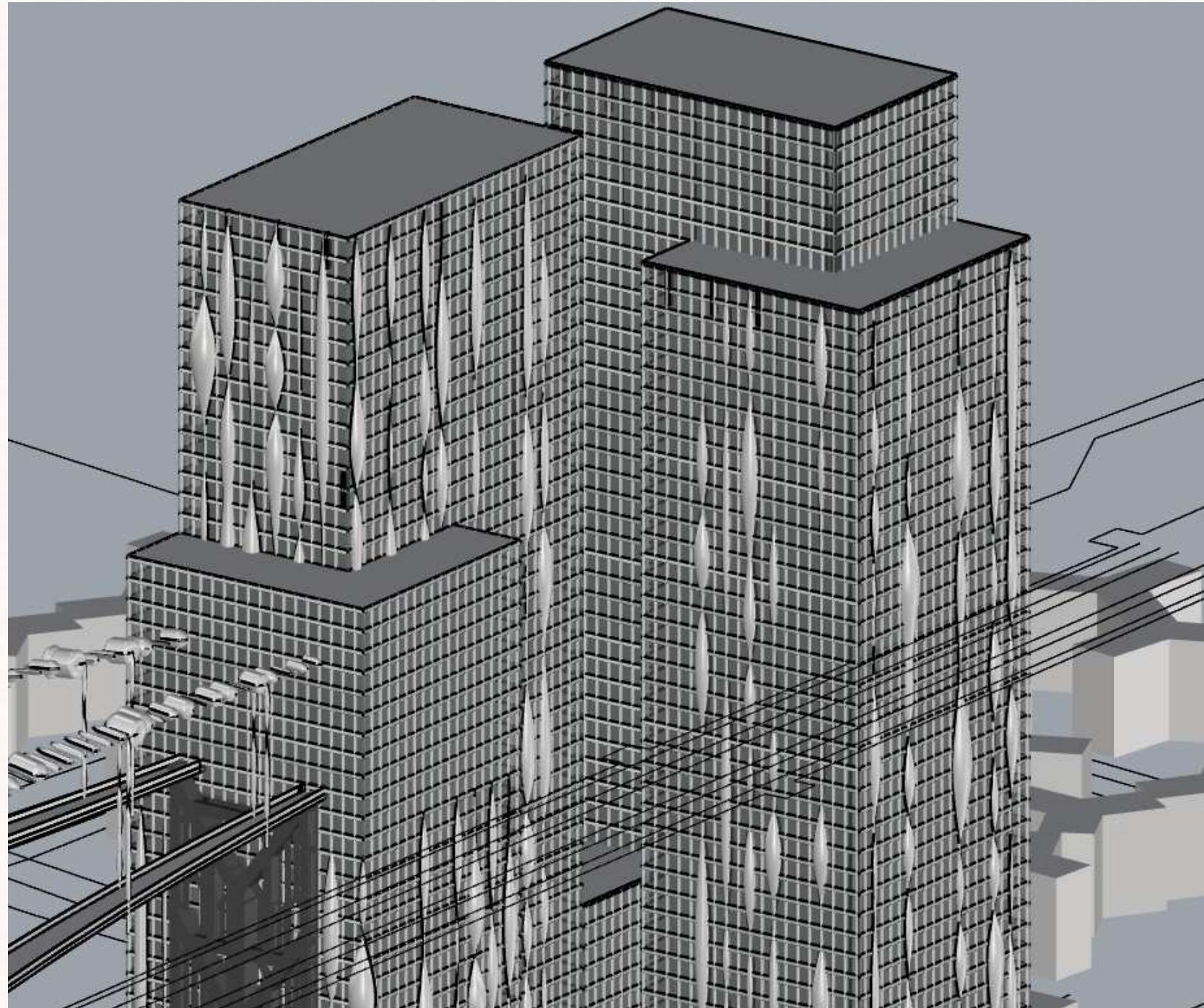
Explorations in materiality, spatial organization, and conceptual design fundamentals

### 08. FORM STUDIES

Exploring the use or parametric design in architecture through the form of a 200 story tower

# O1 ROOSAVELT ISLAND TOWERS

A SERIES OF TOWERS ARE CONSTRUCTED ALONG THE QUEENBOUROUGH BRIDGE AND CONNECTED VIA A WALKING BRIDGE TO ALLOW FOR AN INCREASE IN THE POPULATION AND 10,000 NEW RESIDENTS AND LARGE PUBLIC SPACES.



# Eye of the Storm

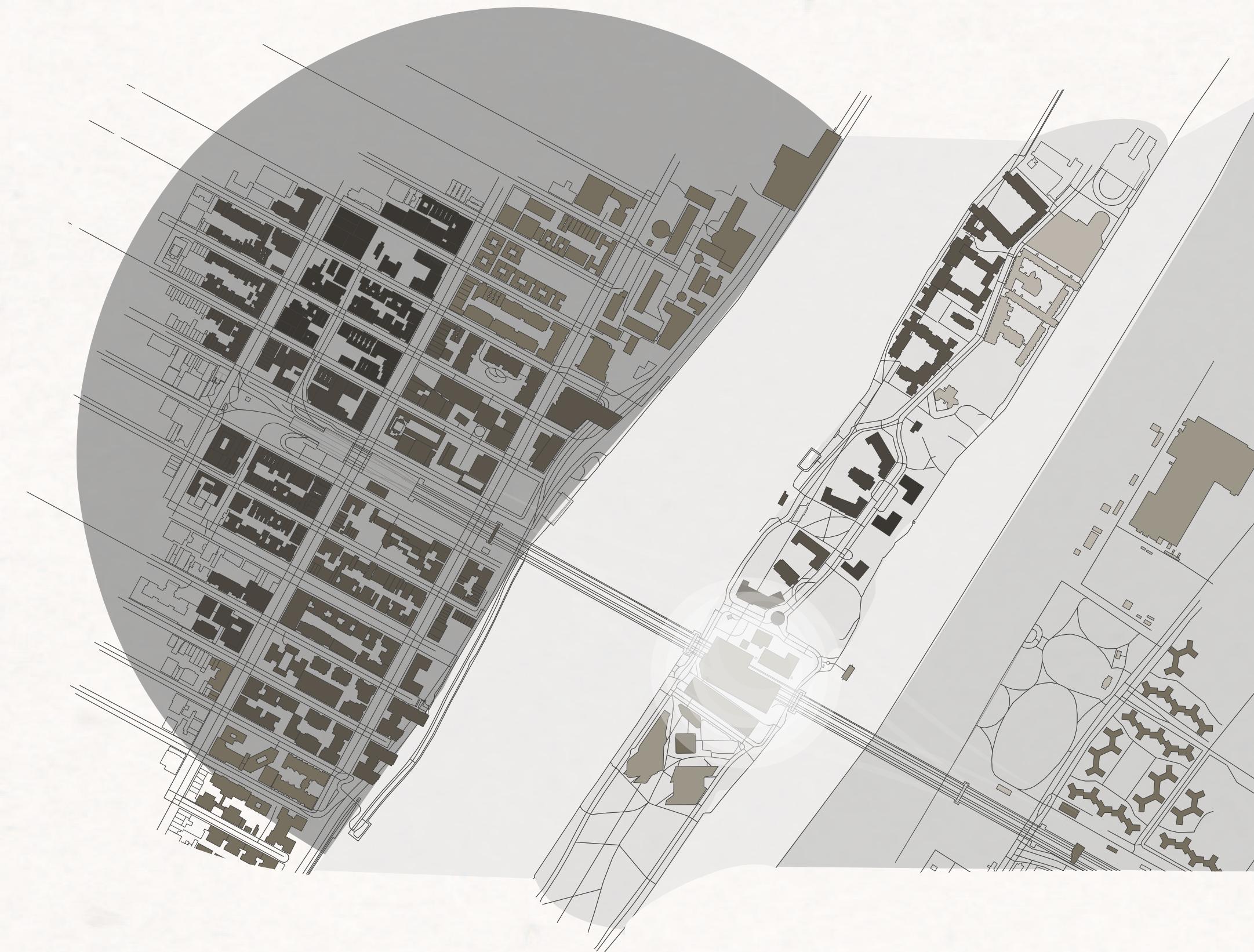
## Concept

Explores how architectural form can reshape the psychological impact of urban living. New York is one of the densest, most active cities in the world, constantly moving, endlessly connected, yet highly isolating. High population density correlates with elevated levels of anxiety, depression, and disconnection. Surrounded by thousands, people often feel unseen. This project responds to that paradox. Embedded within a walking bridge the structure forms an interior world that slows movement. The design embraces the beauty of inconvenience: pathways that slow circulation, encourages awareness, and trades efficiency for pause. By reducing the density of movement and interaction, the space becomes more humane. Isolation transforms from a symptom of density into a place where stillness restores presence, and where being alone no longer means being lonely.

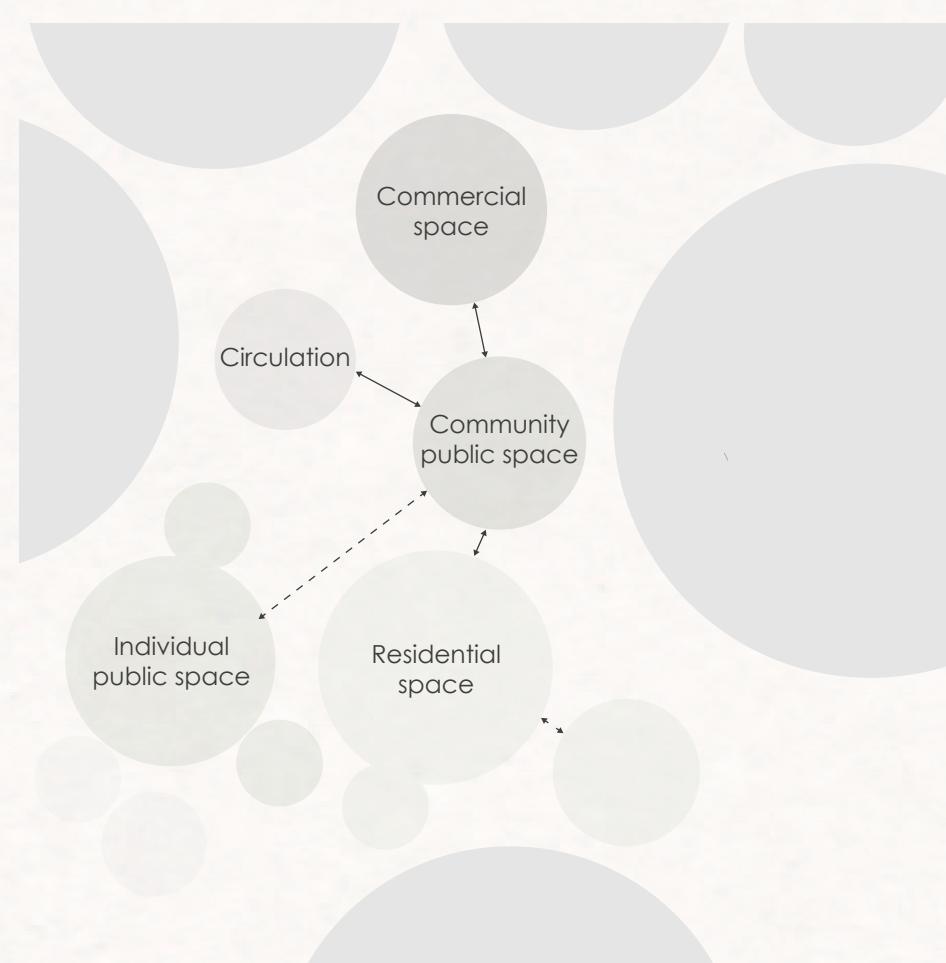
## Building use



## Mental health and population density

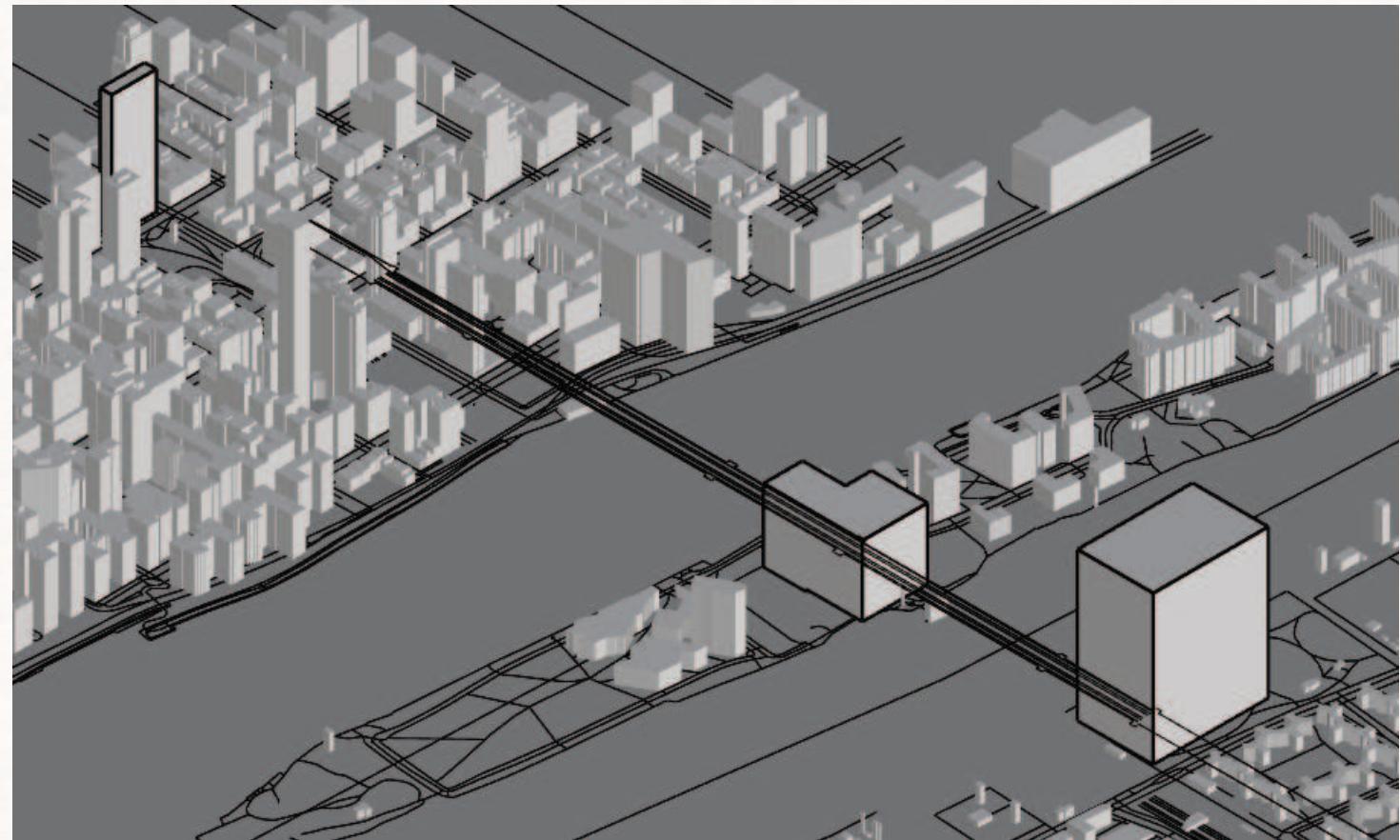


## Occupancy use



Program	Use Type	Approx. % of Total	Area Description
Residential Commercial Community Circulation	Private Semi-public Public Shared	~60% ~20% ~10% ~10%	Townhouses, apartments, penthouses Small offices, retail, cafe spaces Daycare, community facilities, shared terrace Bike/ pedestrian ramp, shared access area
Bridge	Private Semi-public Public Shared	~40% ~20% ~10% ~30%	Residential areas Isolated public spaces on pathways Community facilities Bike/ pedestrian bridge

## FAR ORGINISATION



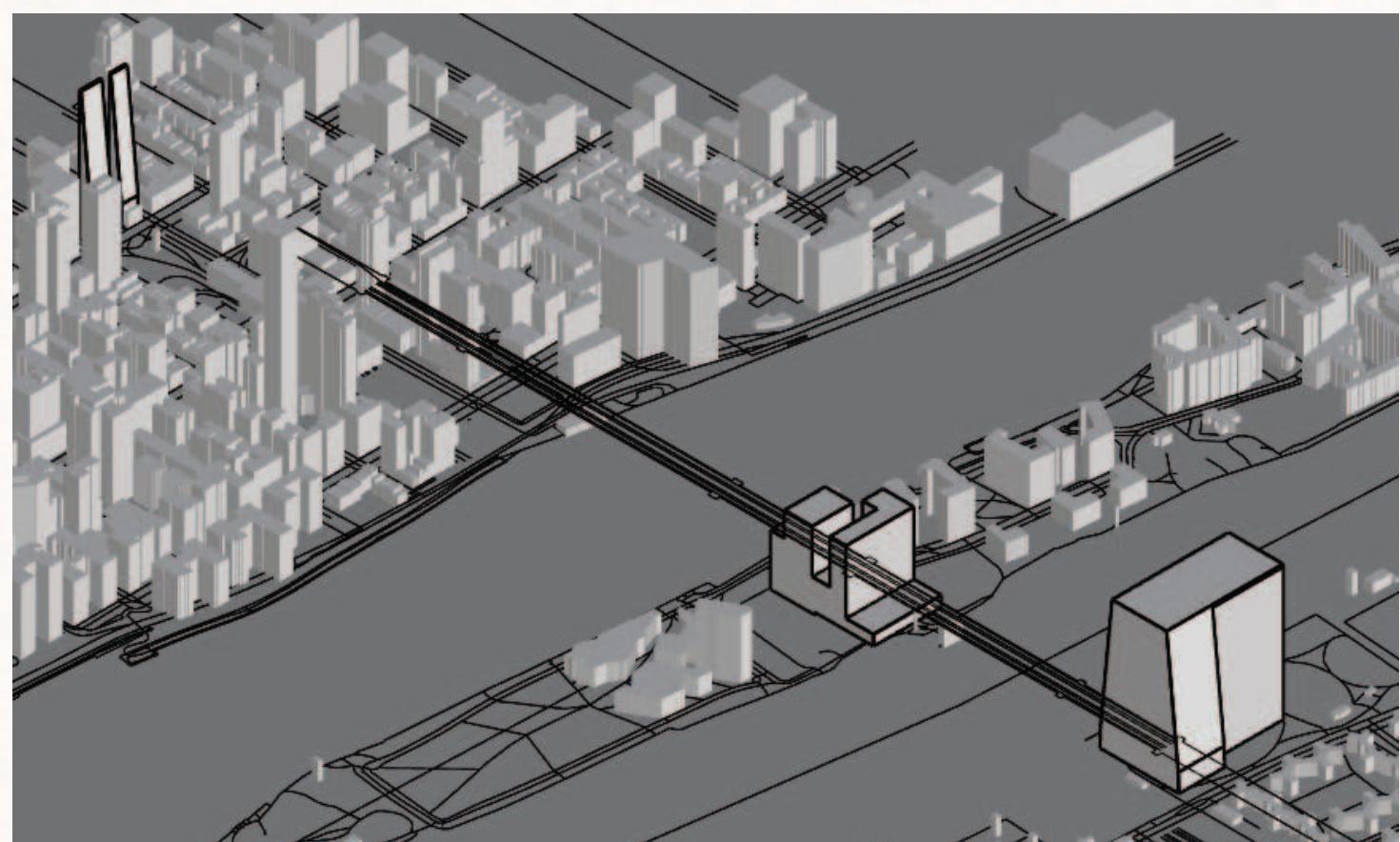
## Concept

Site 1 – Roosevelt Island  
R9 Wide Street Tower Rules Applied:  
Base height max 100 ft before step  
10 ft setback required at 100 ft  
Tower continues at 1:5 slope  
Public terraces exempt from FAR

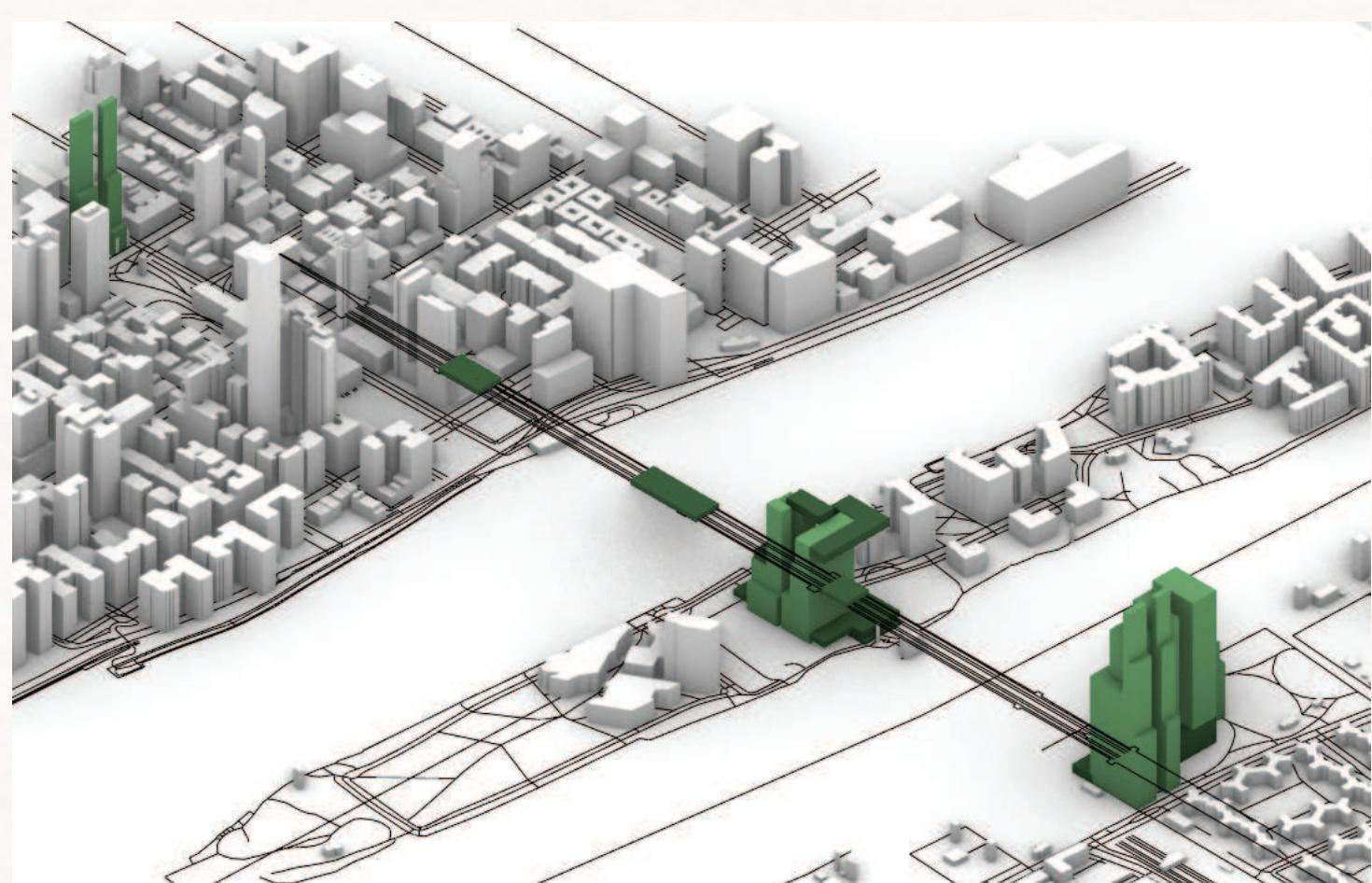
Site 2 – Manhattan  
Base FAR 17.0 exceeded → bonuses applied  
Bonuses Used:  
Transit Bonus  
POPS Bonus  
Stepped Tower Required (R9 equivalent wide street condition):  
120 ft base height cap in Midtown  
Setback at 120 ft, 10–15 ft depth  
Sky plane slope: 1:6 to 1:7  
FAR increased to ~20.6 within legal zoning allowances

Site 3 – Queensbridge Waterfront  
Governed by Waterfront Zoning  
Stepped Tower Massing (R9 wide street equivalent):  
Base height max 100 ft  
Setback 20 ft if facing waterfront  
Sky exposure slope 1:5 above base  
Required public access & view corridors

## SUN AND SLIGHTLINES IMPLIMATATION



## FINAL MASSING ORGINISATION



## O2 EAST KING STREET MATERNITY CENTER

BIRTHING SUITES GATHER AROUND A DAYLIGHT-FILLED COMMUNAL HEARTH, TRANSFORMING CLINICAL CARE INTO A SHARED, CELEBRATORY JOURNEY THAT BALANCES PRIVACY WITH COLLECTIVE SUPPORT.



NORTH EAST SHOT

MAIN ENTRY VIEW



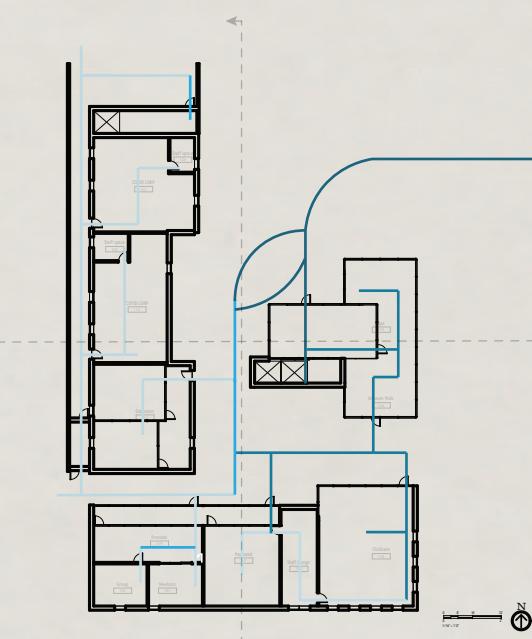
SHADED ISOLATION SUIT LOBBY



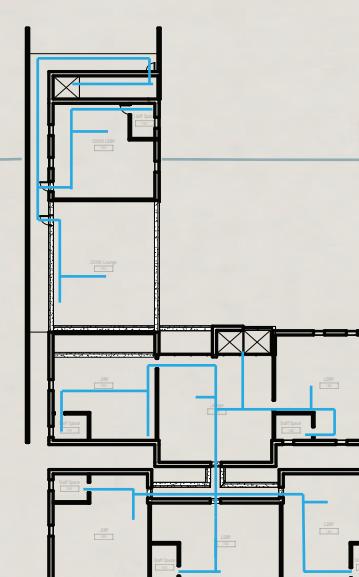
STREET VIEW



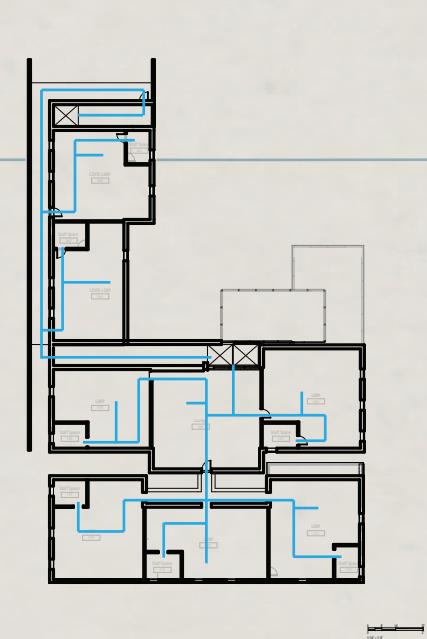
Community Hearth - The Embrace - 1



Community Hearth - The Embrace - 3

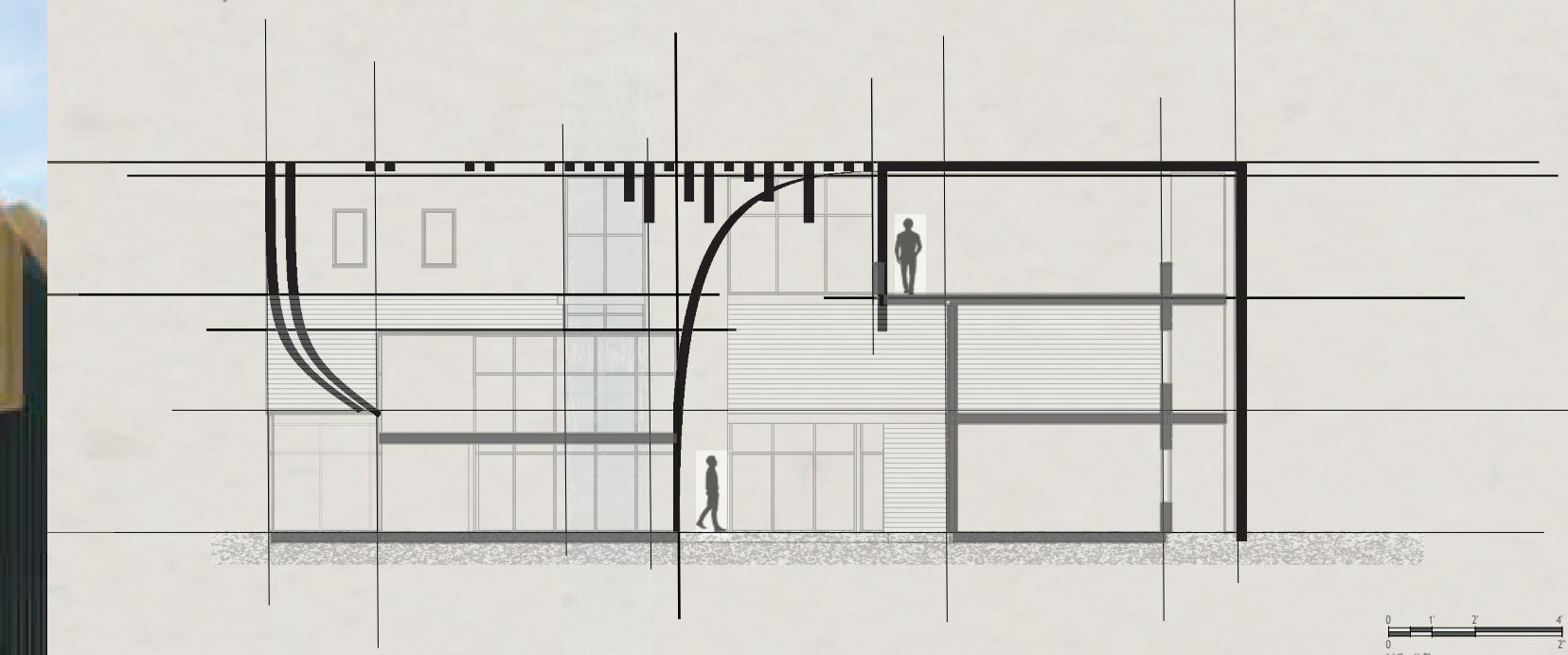


Community Hearth - The Embrace - 2

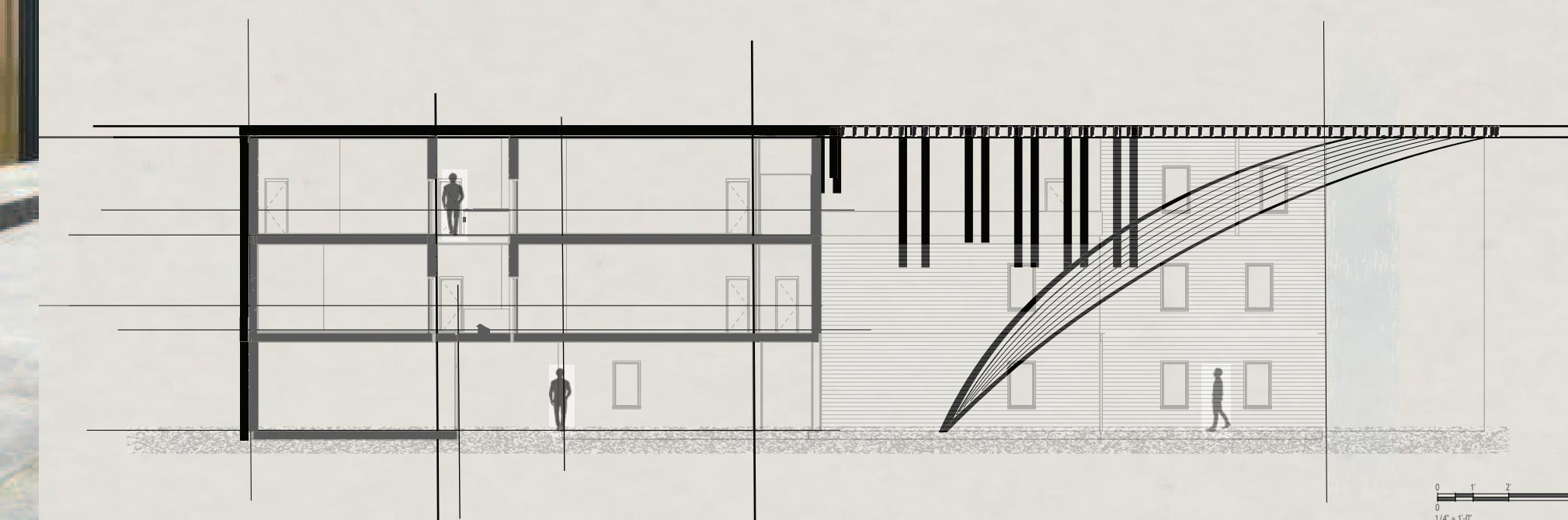


**FLOOR PLANS  
WITH PRIVATE AND PUBLIC CIRCULATION PATHWAYS**

Community Hearth - The Embrace - Section 1



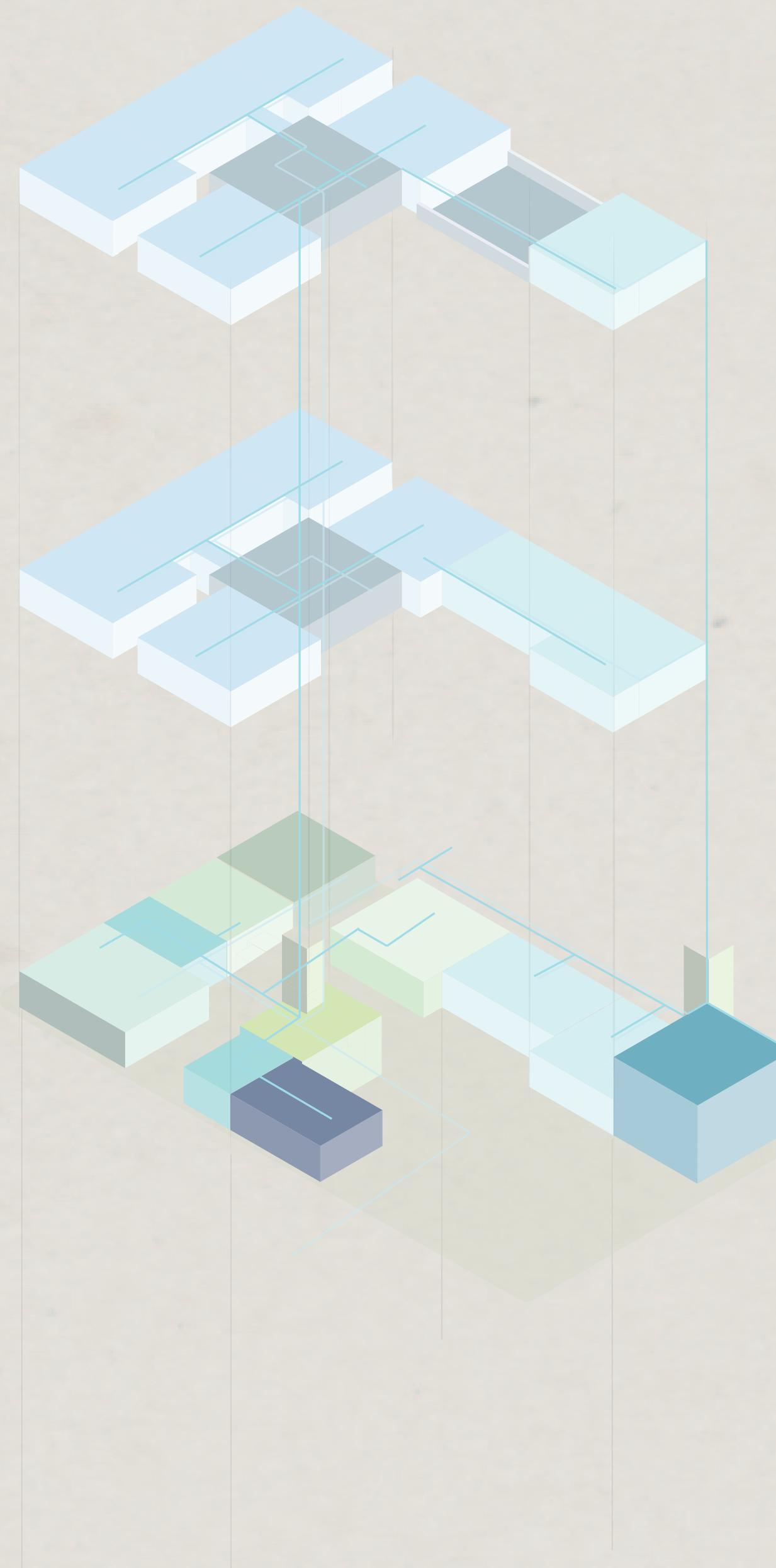
Community Hearth - The Embrace - Section 2



## PHISICAL MODEL NE VIEW - SKIN AND WRAPPING STUDY



Community Hearth - The Embrace - NE View



- LDRs
- Kitchenette/ Lounge
- Isolation LDRs
- Prenatal
- Postnatal
- Childcare
- Education
- Spa
- Museum Walkthrough
- Vertical Circulation
- Lobby
- Ambulance Station
- Staff Lounge
- Staff Circulation
- Public Circulation

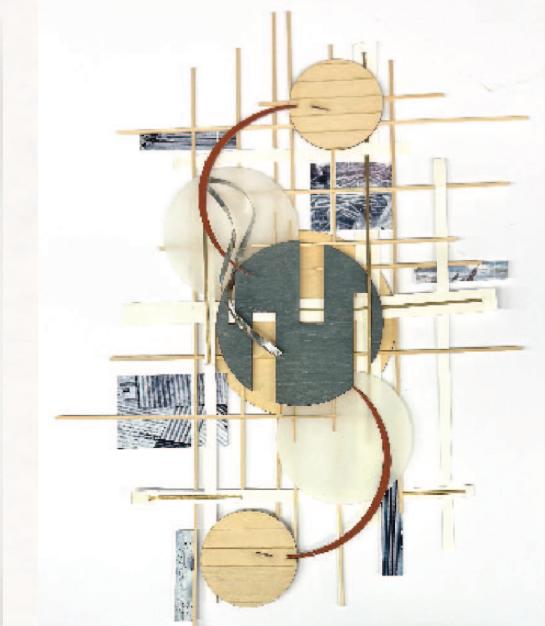
0 1' 2' 3' 4'  
0 1' 2'

## O3 ALASKA PHYSICAL THERAPY & COMMUNITY CENTER

A GLAZED ATRIUM ACTS AS A SOCIAL CROSSROADS, WHERE BRIDGING WALKWAYS LINK THE CULTURAL WING AND THERAPY WING, OFFERING SHELTERED VIEWS OF THE TUNDRA THAT CONNECTS TOURISTS AND LOCALS TO THE PAST AND FUTURE OF THE LAND.



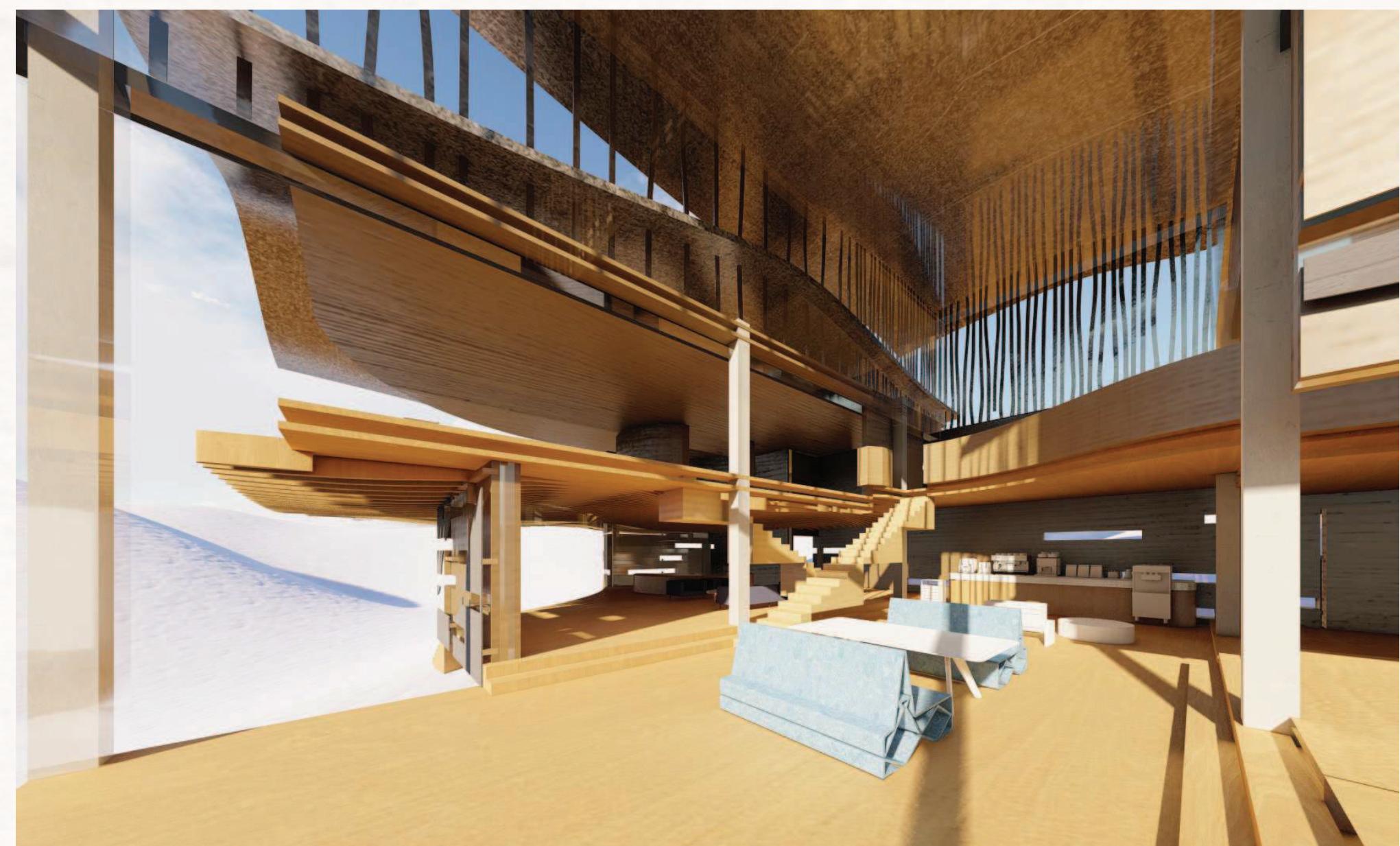
PHISICAL THERAPY CENTRE LOBBY



THREE DIMENTIONAL STUDIES, PLANS AND SECTIONS SHOWING THE TRANSITIONAL SPACES



SIDE ENTRY VIEW

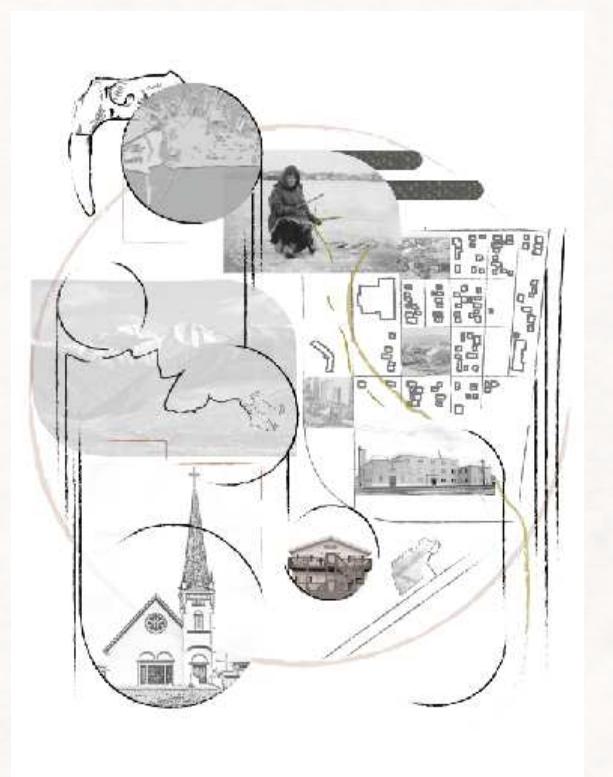
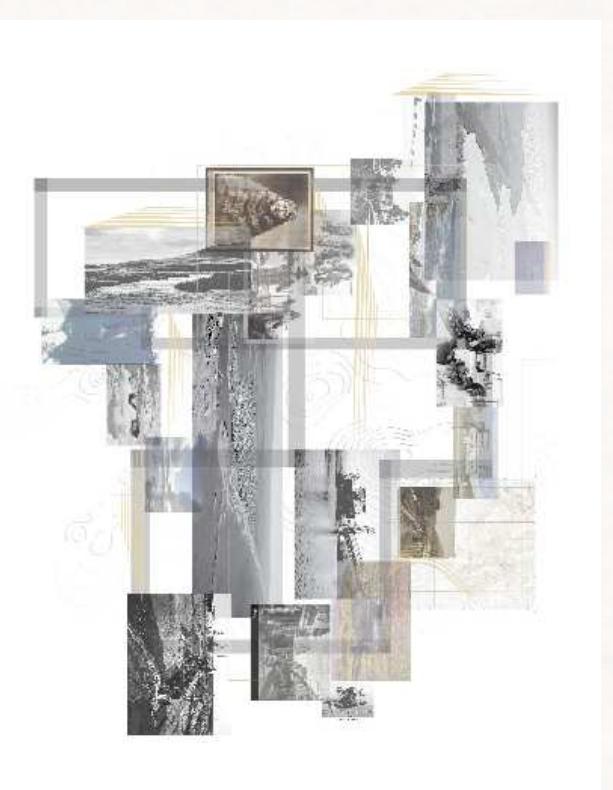
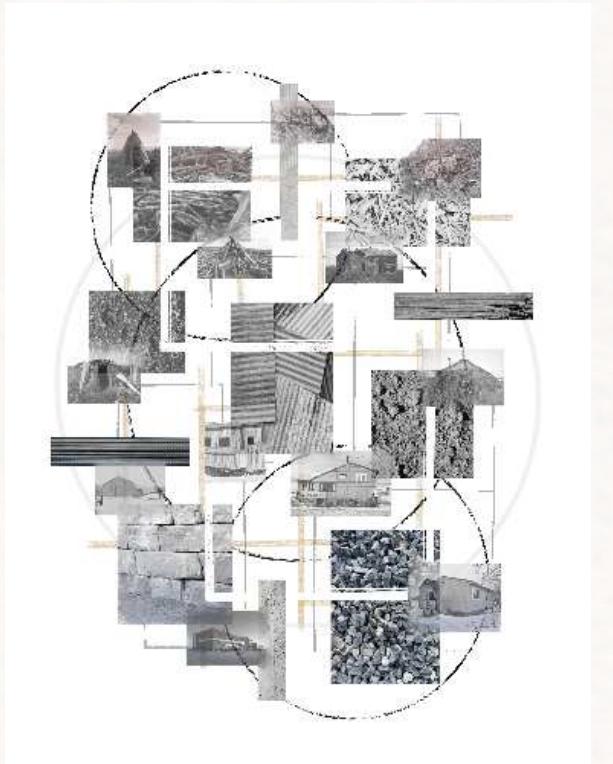
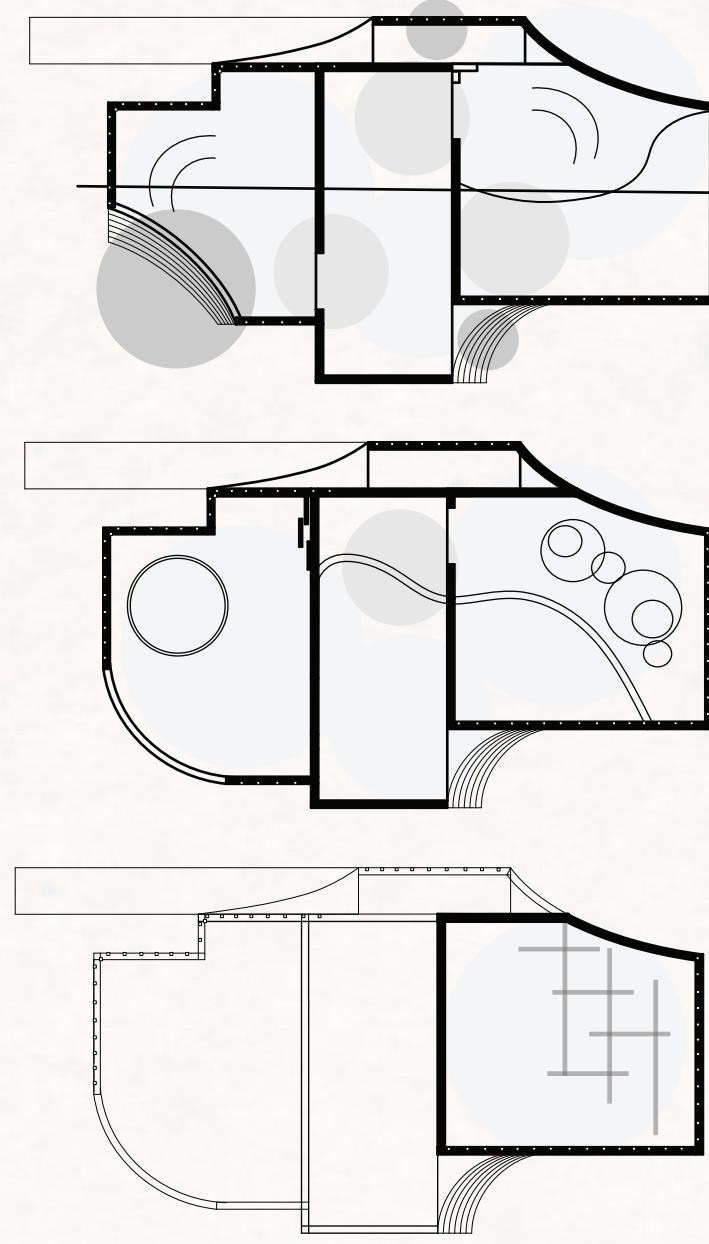


TRANSITION SPACE VIEW



## CULTURE LANDSCAPE AND MATERIAL COLLAGES AND STUDIES

### PLAN DIAGRAMS

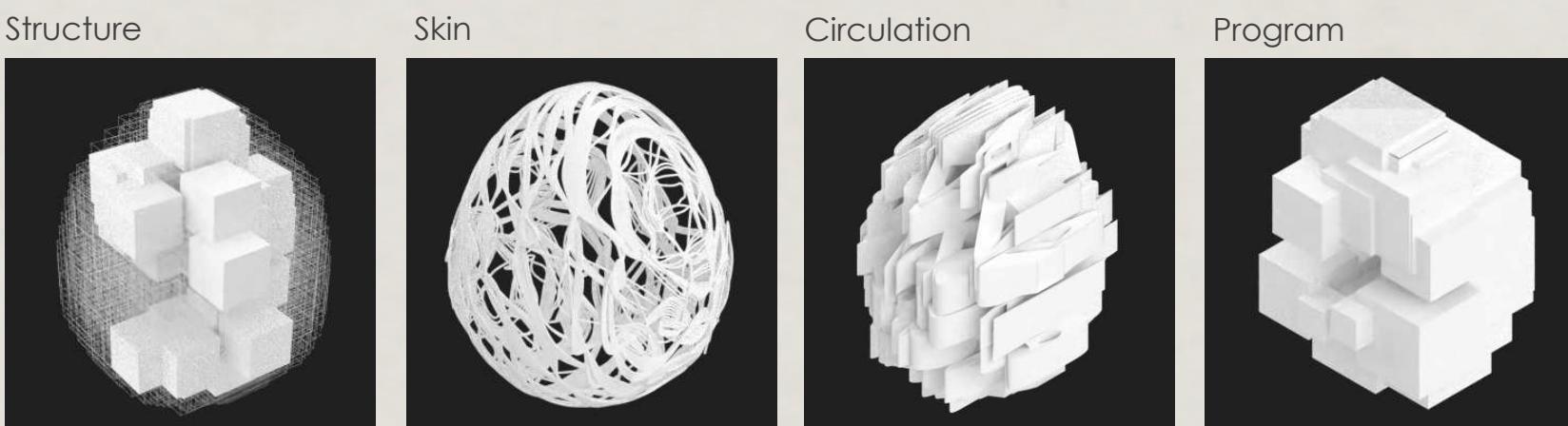
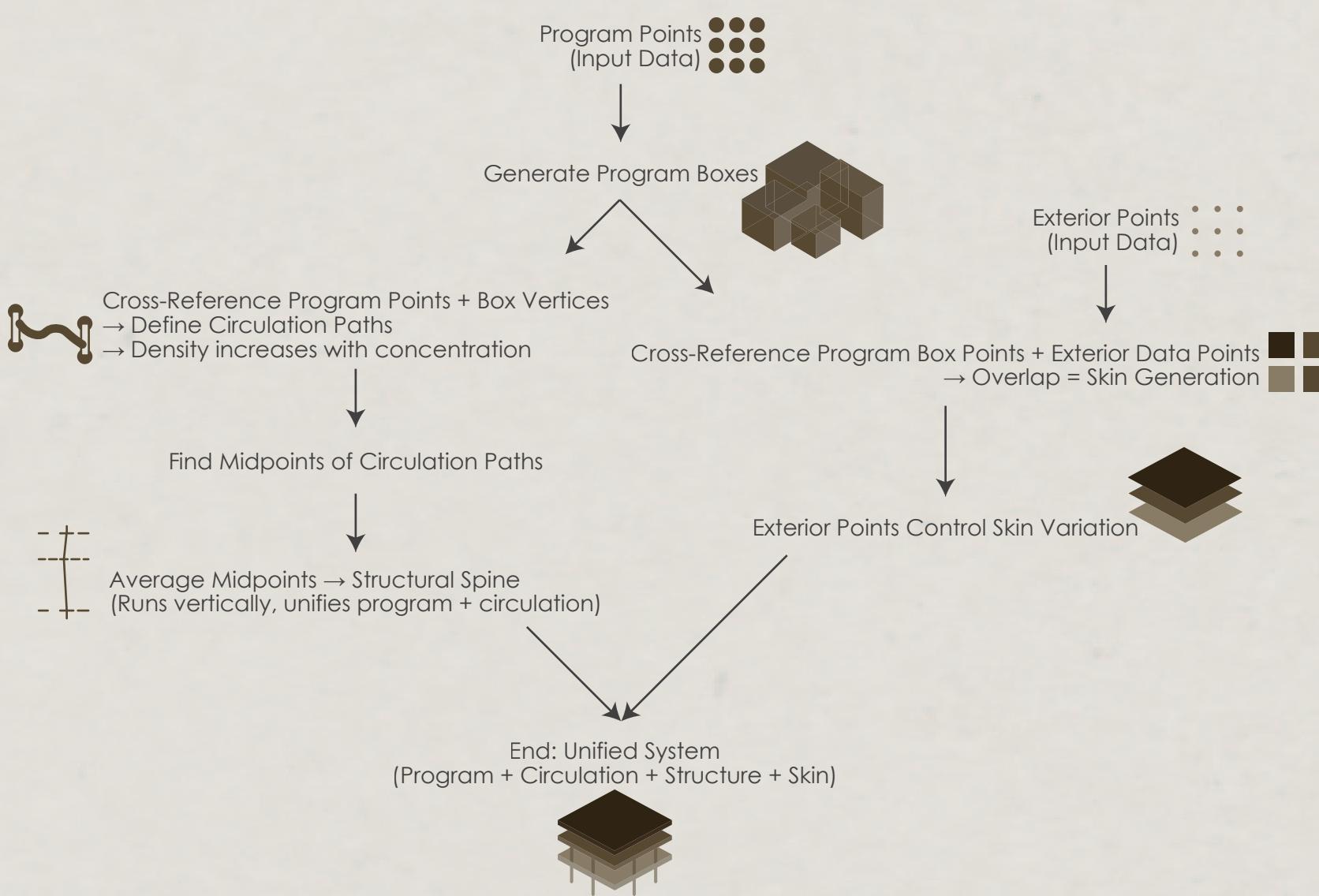


04

## SYSTEMATIC TOWER

THE INTERIOR ORGANIZATION BEGINS WITH PROGRAM POINTS, WHICH GENERATE PROGRAMMATIC BOXES THAT DEFINE SPACE. THE VERTICES OF THESE BOXES ARE CROSS-REFERENCED WITH THE PROGRAM POINTS TO ESTABLISH CIRCULATION, CONNECTING THE NEAREST POINTS TO VERTICES, WITH DENSITY OF CONNECTIONS INCREASING WHERE PROGRAM CONCENTRATION IS HIGHER. THE MIDPOINTS OF THESE CONNECTIONS ARE THEN AVERAGED TO FORM A STRUCTURAL SPINE, WHICH EXTENDS VERTICALLY THROUGH THE SYSTEM TO UNIFY BOTH PROGRAM AND CIRCULATION.

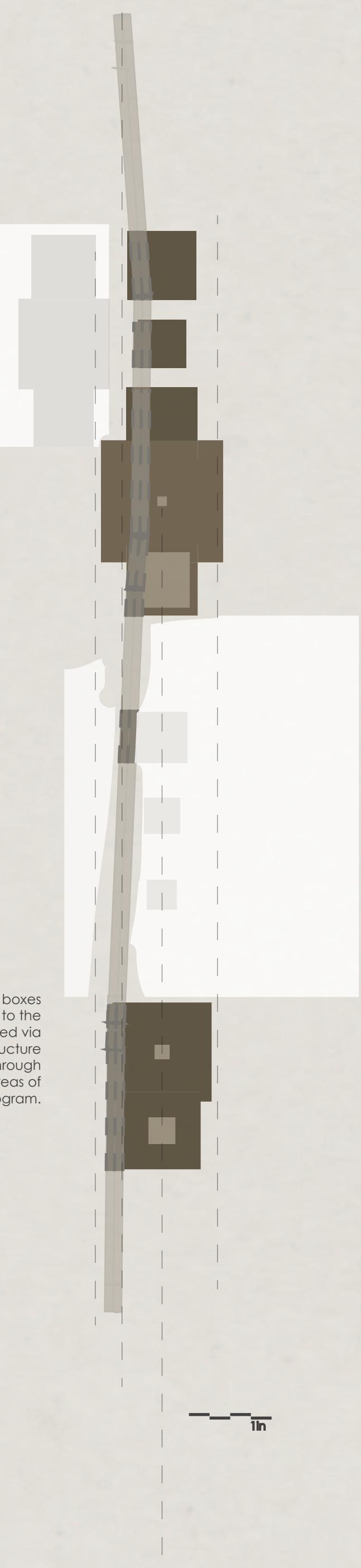
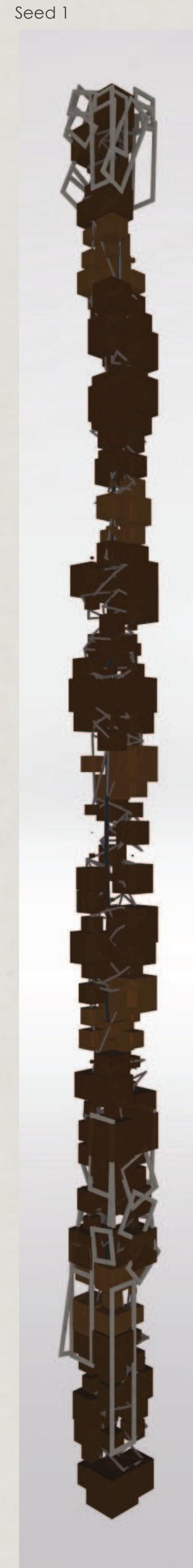
THIS STRUCTURAL LOGIC IS FURTHER INFORMED BY THE RELATIONSHIP BETWEEN INTERIOR AND EXTERIOR DATA. PROGRAM BOX POINTS ARE CROSS-REFERENCED WITH EXTERIOR DATA POINTS, ENSURING THAT ONLY AREAS WITH SIGNIFICANT OVERLAP PRODUCE AN EXTERNAL SKIN. THE EXTERIOR POINTS SIMULTANEOUSLY CONTROL THE DEGREE OF VARIATION IN THE SKIN, LINKING THE BUILDING'S OUTER EXPRESSION TO ITS INTERIOR LOGIC AND DATA-DRIVEN ORGANIZATION.



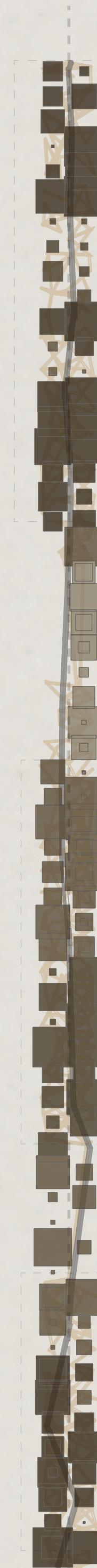
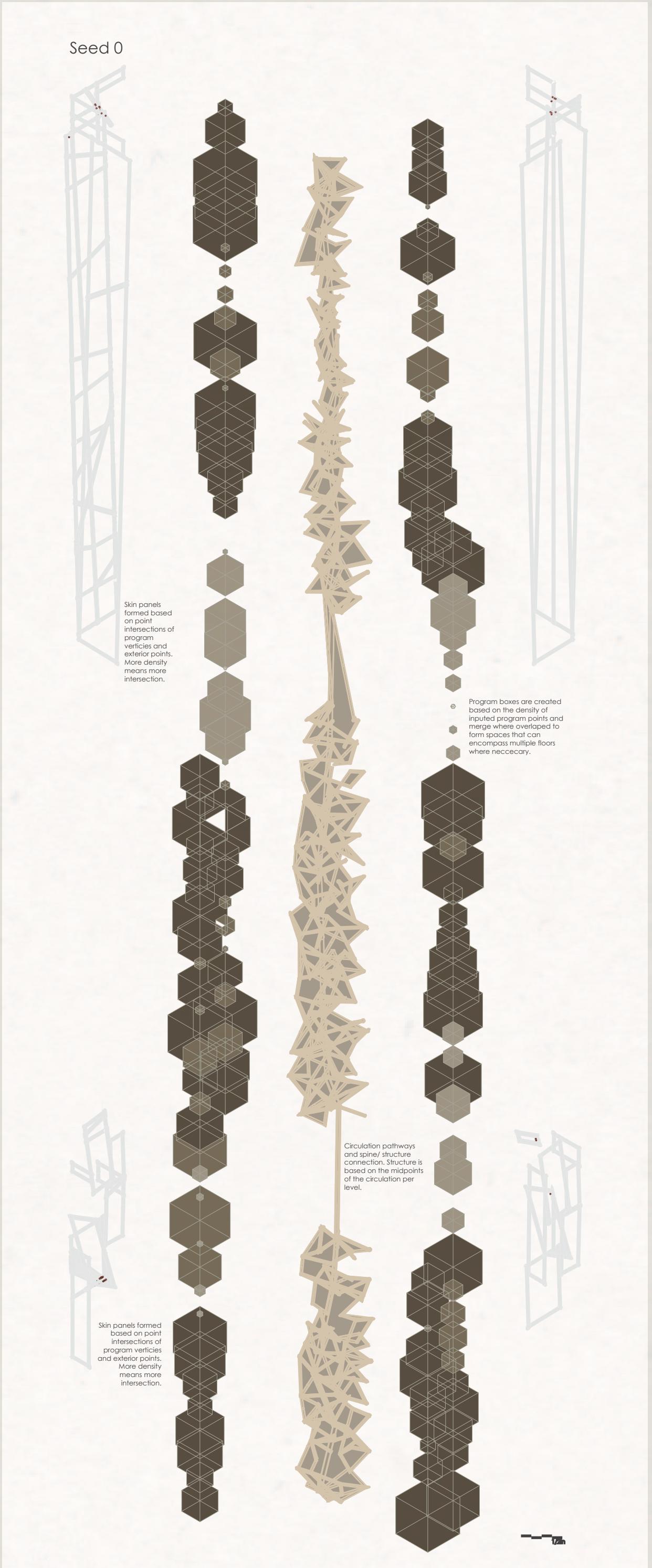
Seed 2



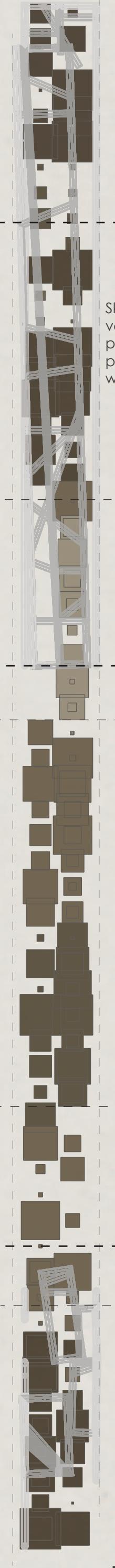
Seed 1



Program boxes connect to the structure created via circulation. Structure moved directly through primary areas of program.



Circulation pathways to program connection. Circulation connecting program vertices and structure based on interior program points provided.



Skin locations and variations comparing program vertices and program points as well as exterior points.

Areas with limited exterior points and program vertices interacting do not have a visible skin panel in order to emphasise the areas of change.

Areas with less program needs have less intricate circulation connections and have more direct vertical connection through the spine.

1/2in

1/2in

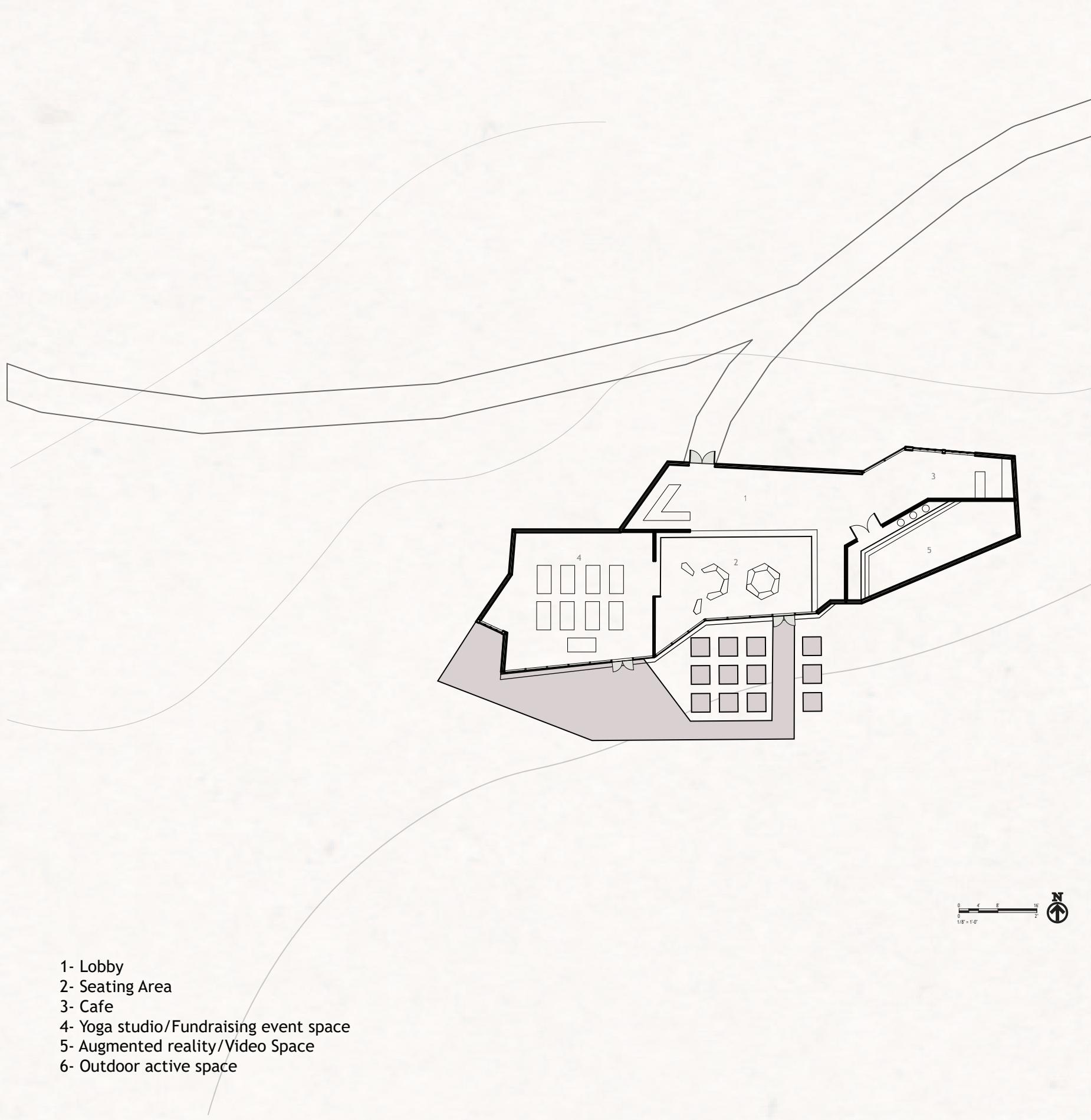
## 05 LOCH HAVEN PARK EDUCATIONAL PAVILION & CARDIOVASCULAR WELLNESS COMPLEX

TIERED FLOOR LEVELS AND ROOFTOPS MAP EXERTION TO IMMERSIVE AR VISUALIZATIONS OF HEART ACTIVITY, TURNING MOVEMENT ITSELF INTO AN EXHIBIT THAT INVITES VISITORS TO LEARN, PLAY, AND CARE FOR THEIR CARDIOVASCULAR HEALTH.

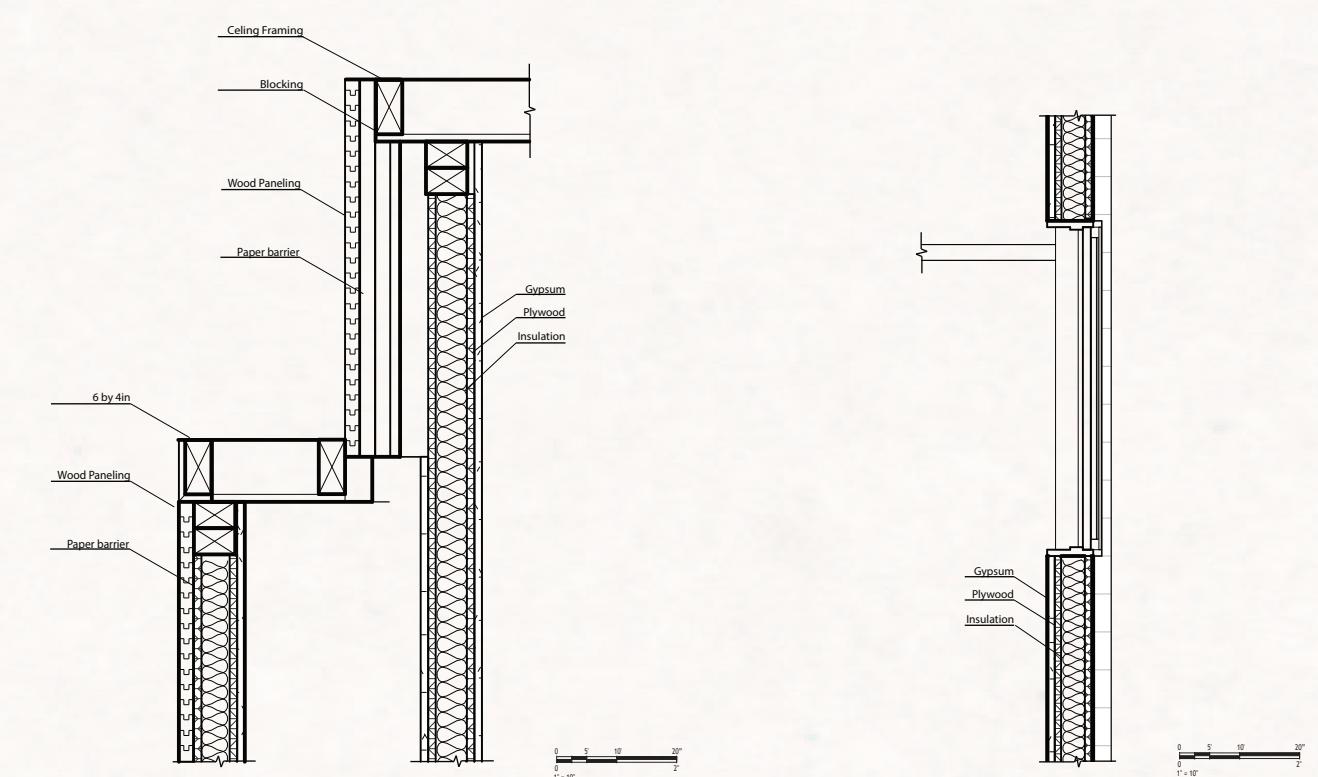
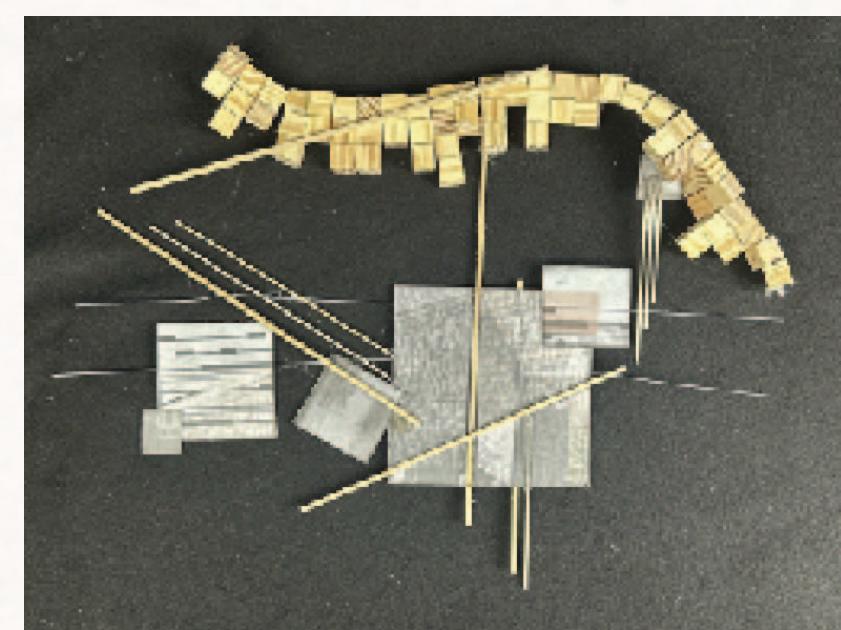
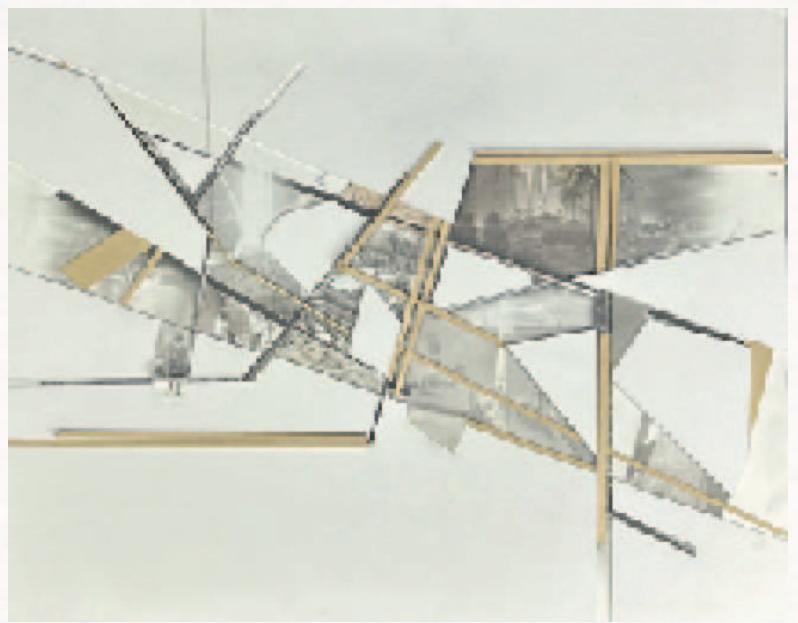


MODEL IMAGES AND RENDERS EMPHASISING  
LAYERED APPROCH



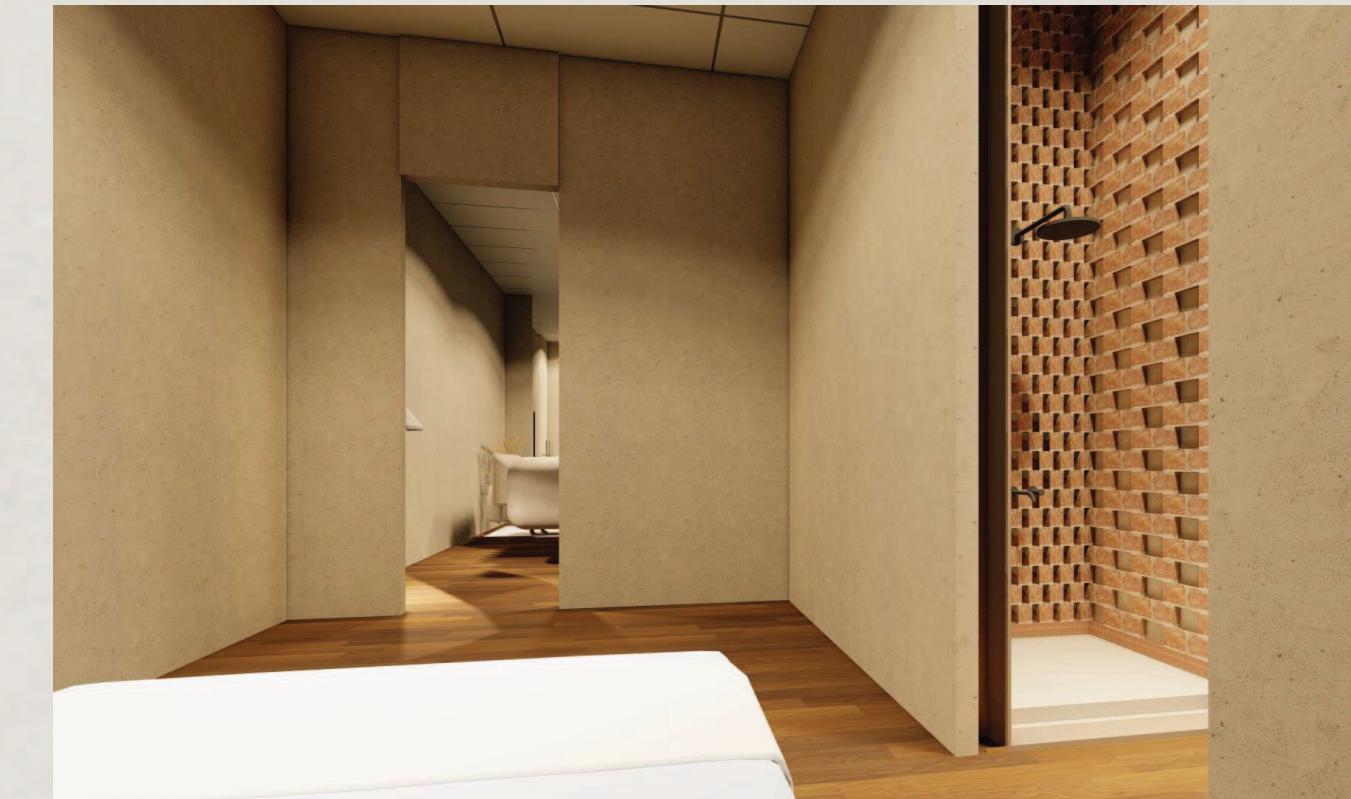


## SITE AND CONTEXT STUDIES



## 06 MICHIGAN ENVIRONMENTAL RESIDENTIAL STUDY

AIMING TO SHOW THAT PASSIVE STRATEGIES ALONE CAN DRIVE PERFORMANCE AND YEAR-ROUND COMFORT.

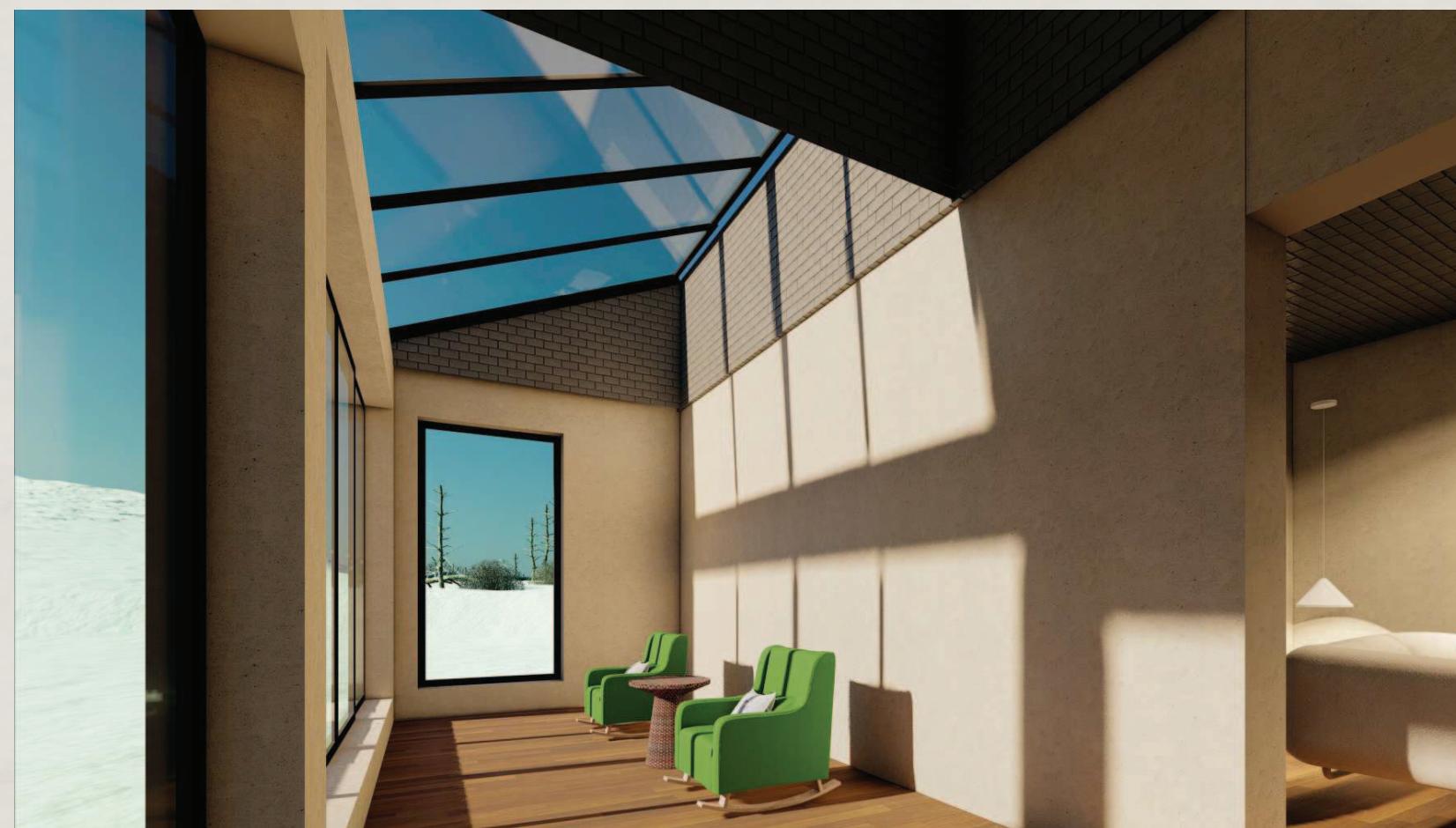


BURIED INTO THE LANDSCAPE ON THE NORTH SIDE TO KEEP OUT COOLER TEMPERATURES AND KEEP THE WARMTH FROM THE SUNROOM IN.

GREENHOUSE ROOM ON THE SOUTH SIDE TO ALLOW AS MUCH LIGHT AND HEAT TO ENTER THE SPACE AS POSSIBLE.

TREES ON THE NORTH AND WEST SIDES TO BLOCK WINTER WIND AND STRONG BREEZE FROM THE LAKE.

MOVABLE AUTOMATIC COVER TO BLOCK THE TOP PART OF THE GREENHOUSE DURING THE SUMMER MONTHS WHEN LESS HEAT IS NEEDED



TIMELAG WALL ON THE SOUTH SIDE TO SLOWLY REALIZE HEAT CAPTURED BY THE SUNROOM.

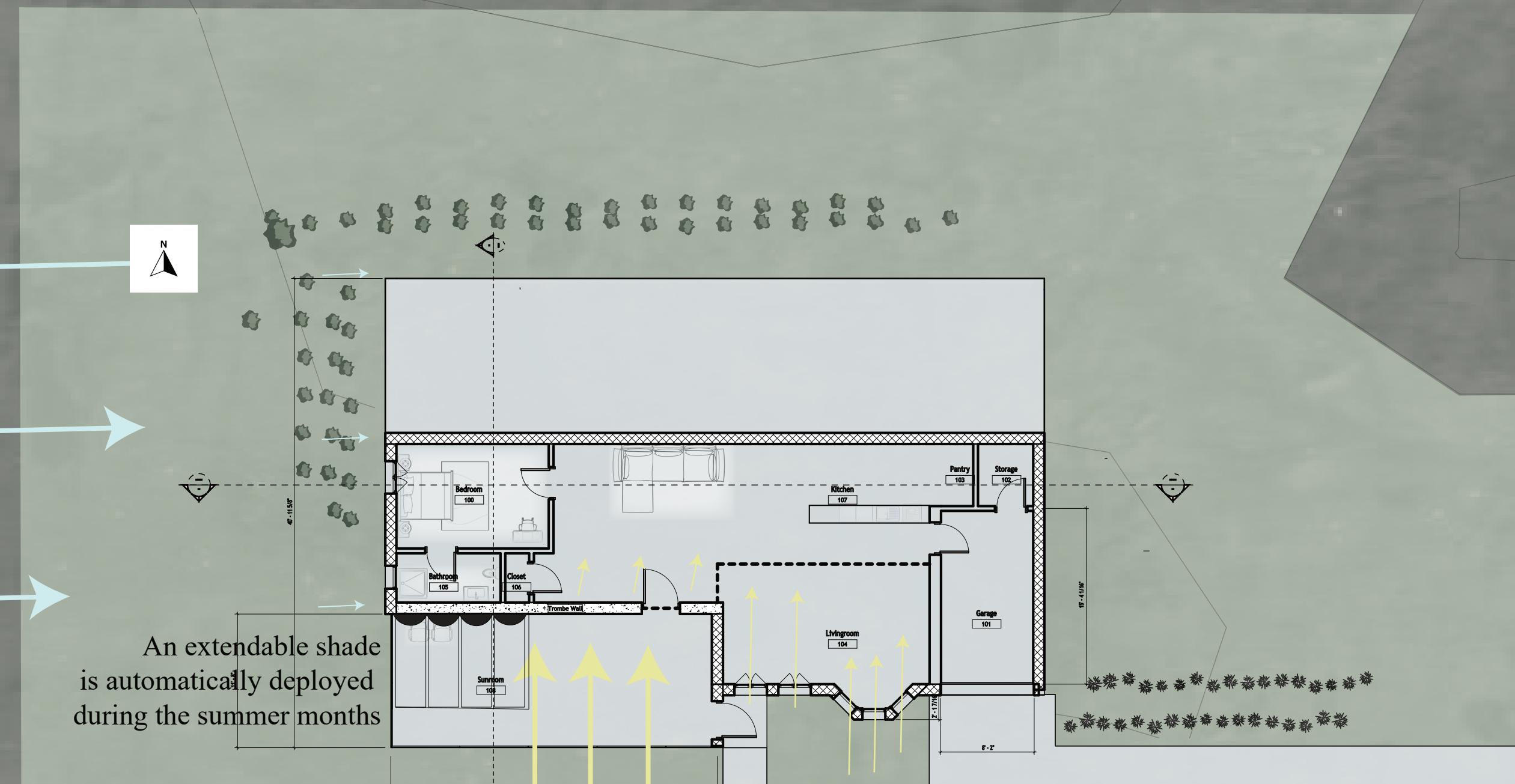


Cold winds from the lake  
are blocked by evergreen trees

An extendable shade  
is automatically deployed  
during the summer months

Sunlight is moved into the trombe  
wall through the greenhouse

① First Floor Architectural Plan  
1/4" = 1'-0"



07

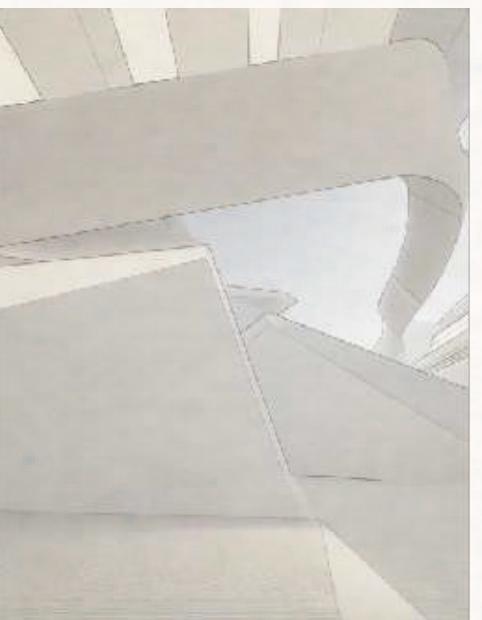
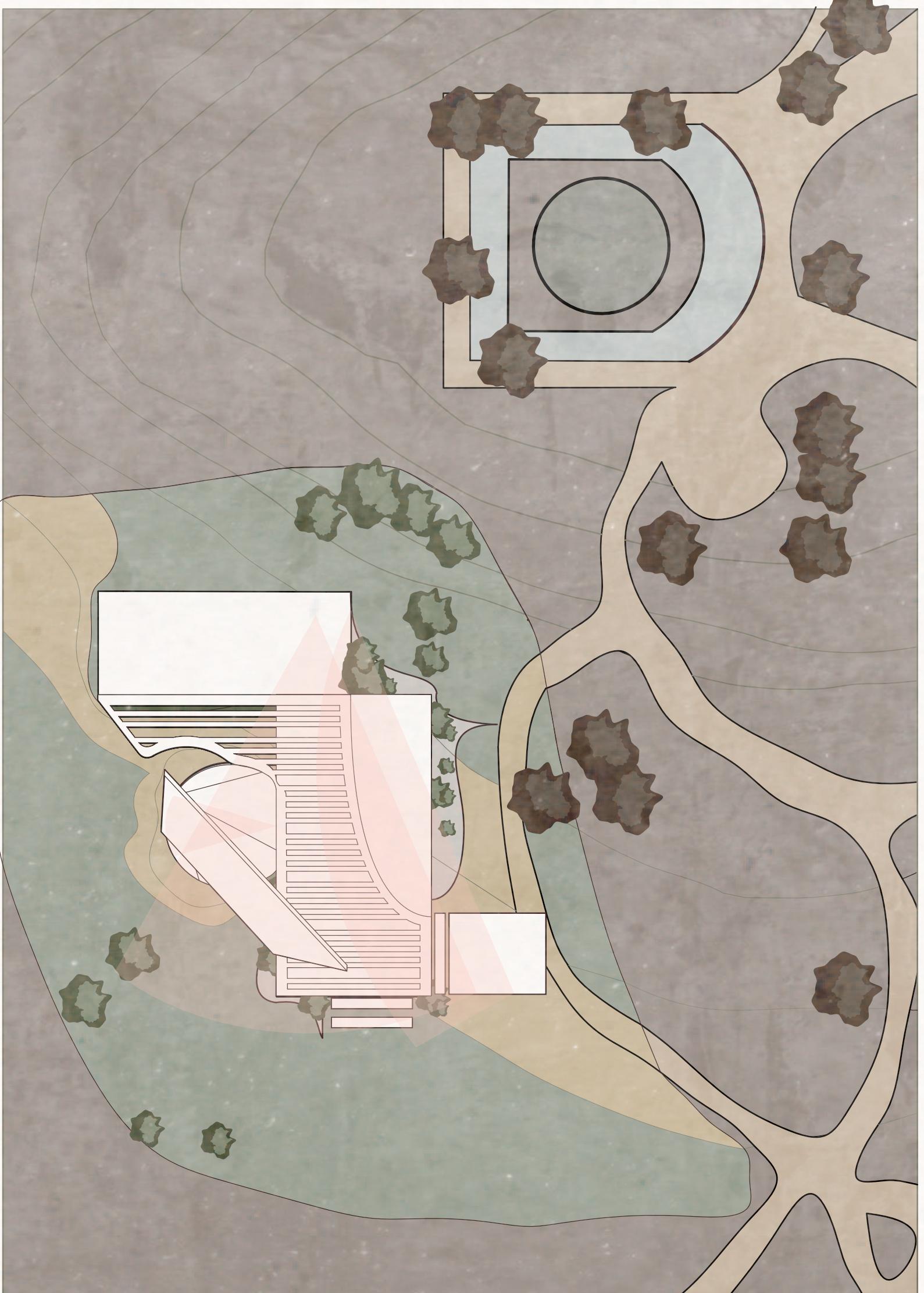
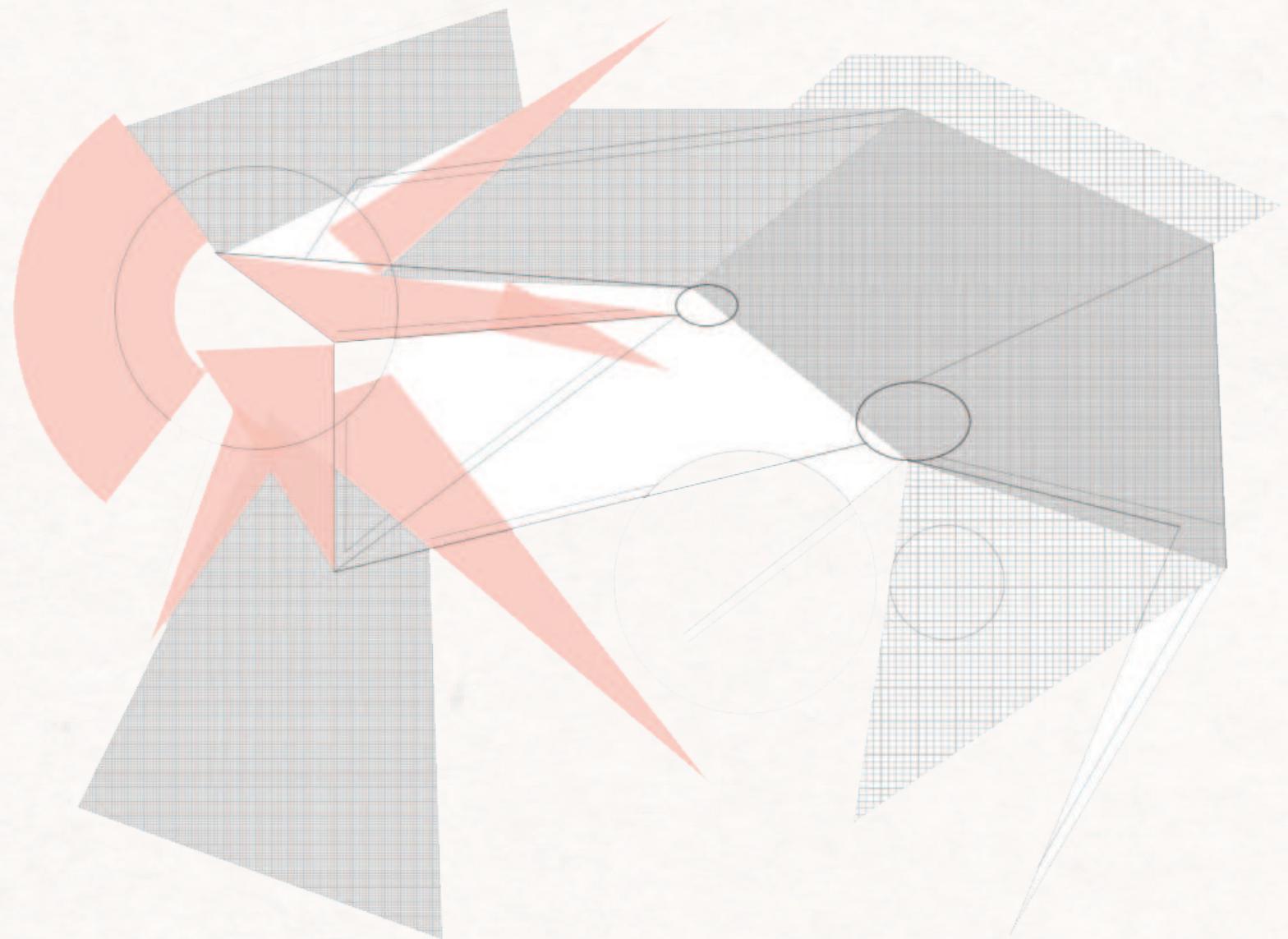
## BOK TOWER GARDENS PAVILION

A STUDY OF LIGHT AND SHADOW AND THE FORMS THAT COME OUT OF THAT,  
USING SAID FORMS TO INVITE VISITORS TO EXPLORE A PASSAGE THAT BLENDS THE  
INTERIOR WITH THE SITE'S HISTORIC LANDSCAPE LEGACY.



SITE STUDY SHOWINNG MAJOR AREAS OF TRAFFIC

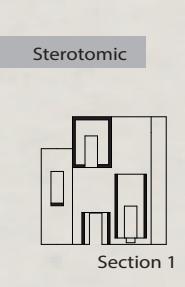
AND SIGHT LINES TOWARDS THE MAIN TOWER



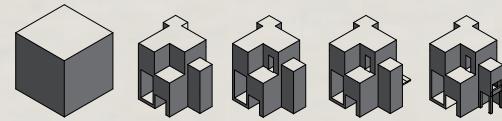
# 08

## FORM STUDIES

ITERATIVE MODELS INVESTIGATE HOW TO GENERATE STRUCTURE, SPATIAL RHYTHM, AND ENVELOPE IN ONE CONTINUOUS ACT OF MAKING.

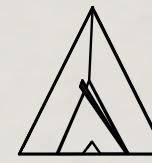


Section 1

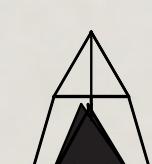


Workflow diagram 1

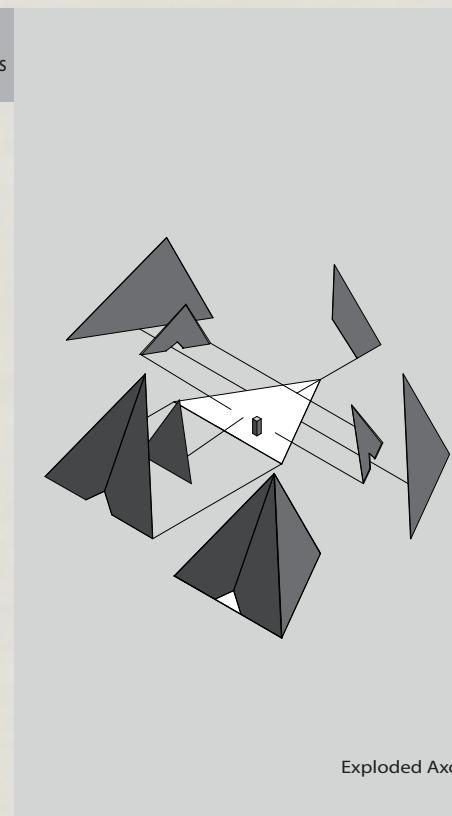
Objects and Elements  
Creating Space using a Variety of Objects  
By: Hala Haddadin



Section 1



Section 2

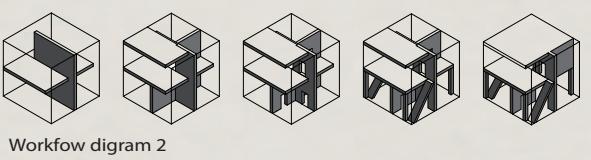


Exploded Axo 1

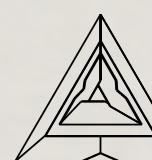
### Transformation and Manipulation

Transforming and Manipulating objects to create interior and exterior space  
By: Hala Haddadin

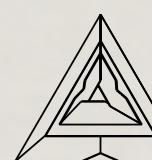
Tectonic



Workflow diagram 2

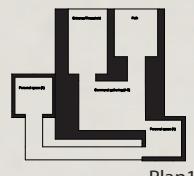


Plan 1

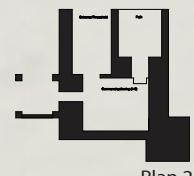


Plan 1

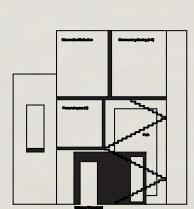
Advance Object Creation and Extracting Work  
Studying the Interior of a mass  
By: Hala Haddadin



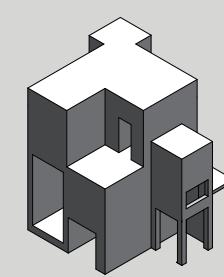
Plan 1



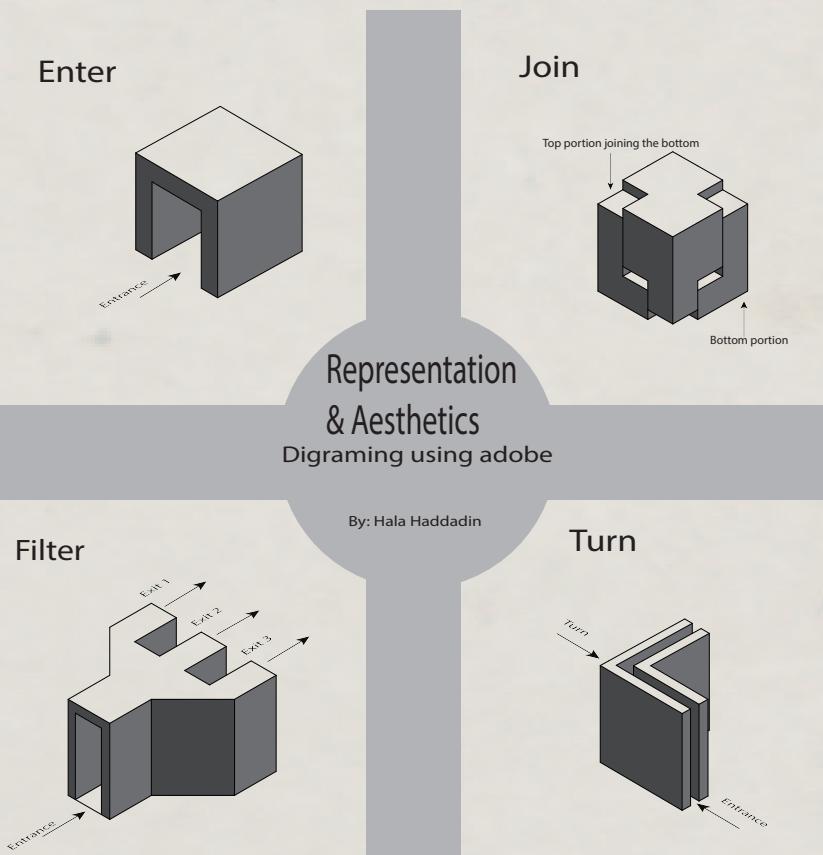
Plan 2



Section 1



Axo 1

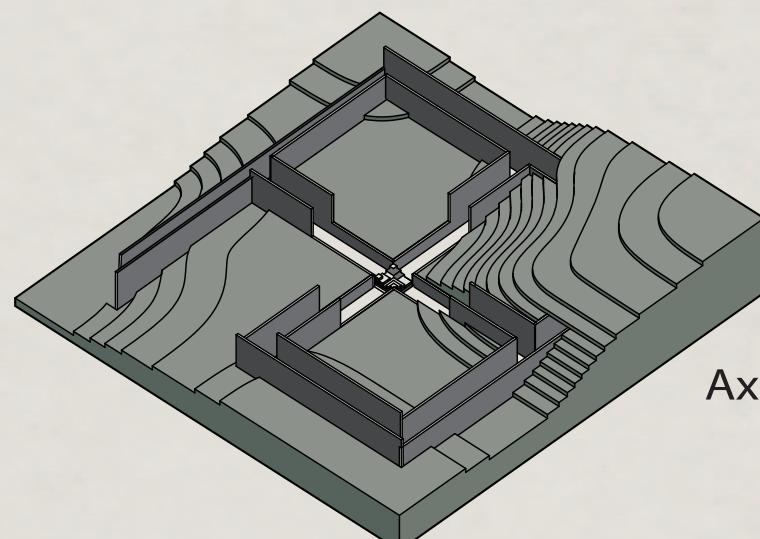
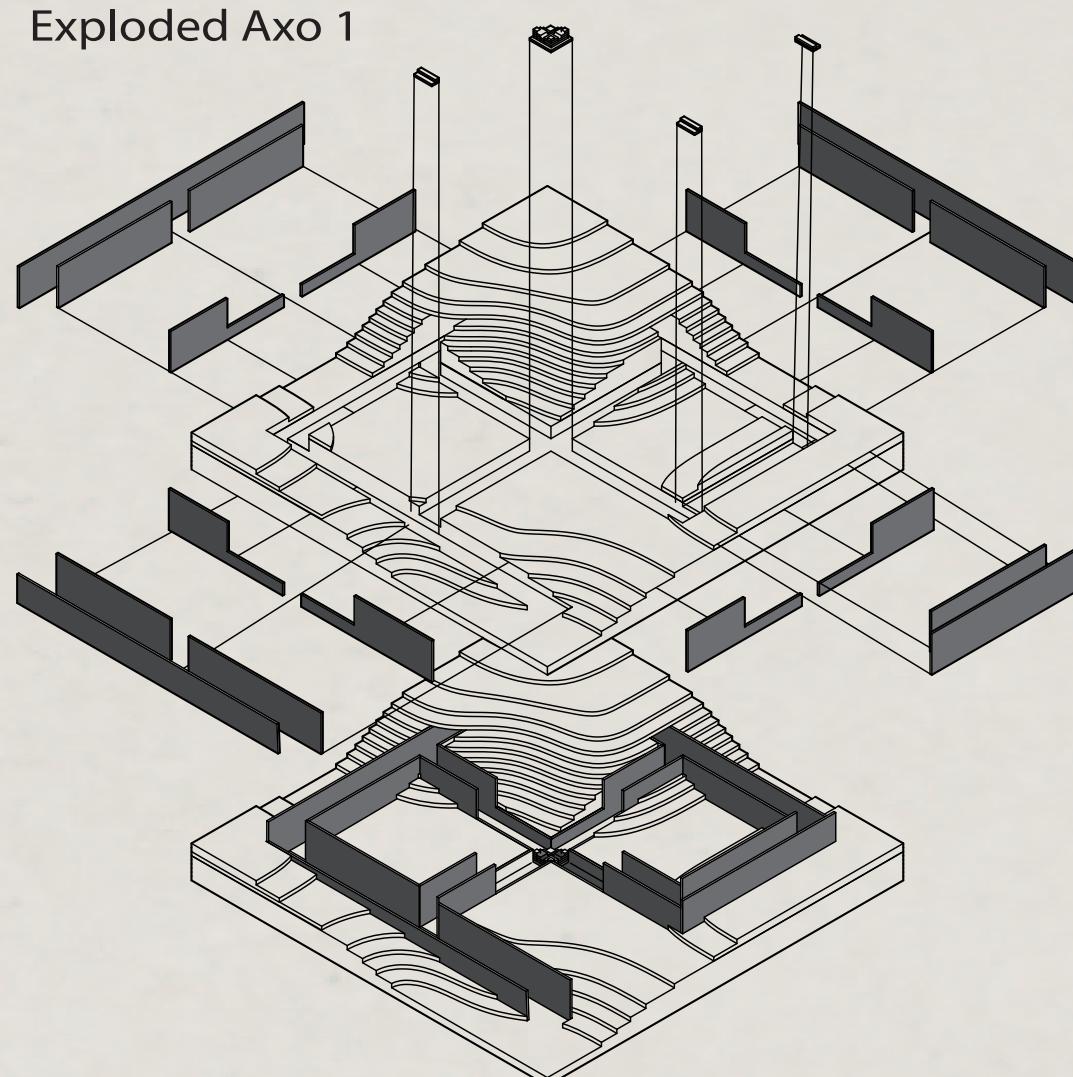


## Details and Scale

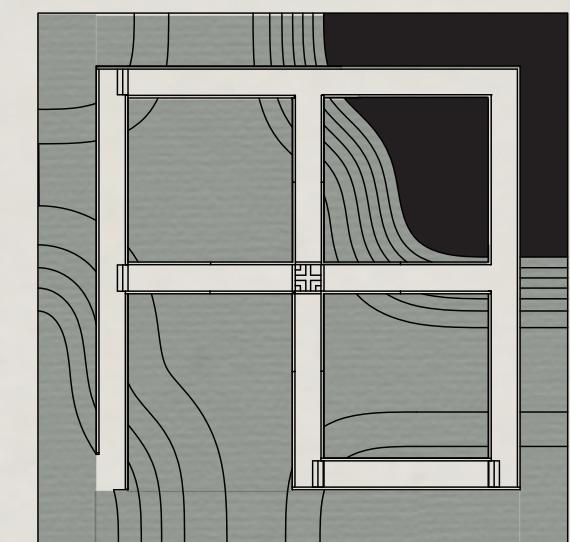
### Establishing Heirachy in space and Form

By: Hala Haddadin

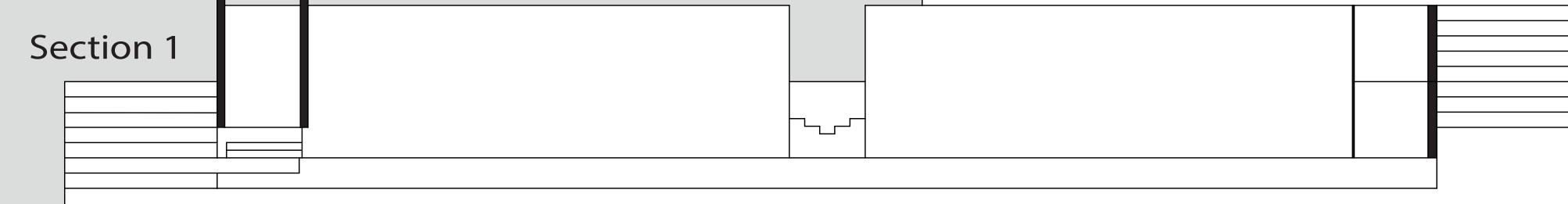
#### Exploded Axo 1



Axo 1



Plan 1



Section 1

