ZANDER AINGE

Architecture Portfolio | Selected Works

ZANDER AINGE

Dedicated, creative, detailed, analytical and organized architecture student hoping to gain more professional experience prior to graduation.

AWARDS/HONORS

Syracuse Dean's List
AP Scholar Award
National Honor Society
Distinguished Honor Roll
Certificate of Bi-Literacy in Spanish

SKILLS

Rhino 3D
Adobe Illustrator / InDesign
Adobe Photoshop
Revit / AutoCad (familiar)
Spanish (proficient)
Time Management
Calculus
Microsoft Word/PowerPoint

CONTACT

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EXPERIENCE

FOREFRONT DESIGNS, LLC, STUDENT INTERN SUMMER 2023
Worked with lead architect to create and build models based on architectural floor plans and elevations.
Assisted in office and client activities, and residential site measurements.

NOMAHEGAN SWIM AND TENNIS CLUB, TENNIS PRO 2020-2024
Summer employment instructing tennis drills to adults and children.
Developed interpersonal, communication, and management skills.
Held "Tennis Racquet Drive" to receive tennis racquet donations for the Donald Van Blake Tennis and Education Foundation.

EDUCATION

SYRACUSE UNIVERSITY SCHOOL OF ARCHITECTURE 2023-2028
Architecture Leadership Scholarship
Coursework: Architecture Representation 1/II, Design Studio I-III, Introduction to Building and Structural Systems, Building Systems Design I, Architecture Theory
GPA: 3.67

WESTFIELD SENIOR HIGH SCHOOL 2019-2023
GPA: 4.13 (W) – AP Scholar
AP Calculus BC, AP Statistics, AP Physics I, AP Physics II-C, AP Spanish Language

NEW JERSEY INSTITUTE OF TECHNOLOGY 2022
Student, 1 week "Intro to Architecture" residential summer program.
Sketched, designed, and created computer models, explored light, shadows, form, and presented to groups of students and parents.

ACTIVITIES

USTA 4.5 Men's Tennis League
Syracuse University Club Tennis
Syracuse University Tennis Analytics Club
Architecture Peer Ambassador
AIAS Member
Drawing
Architecture Student Organization Member

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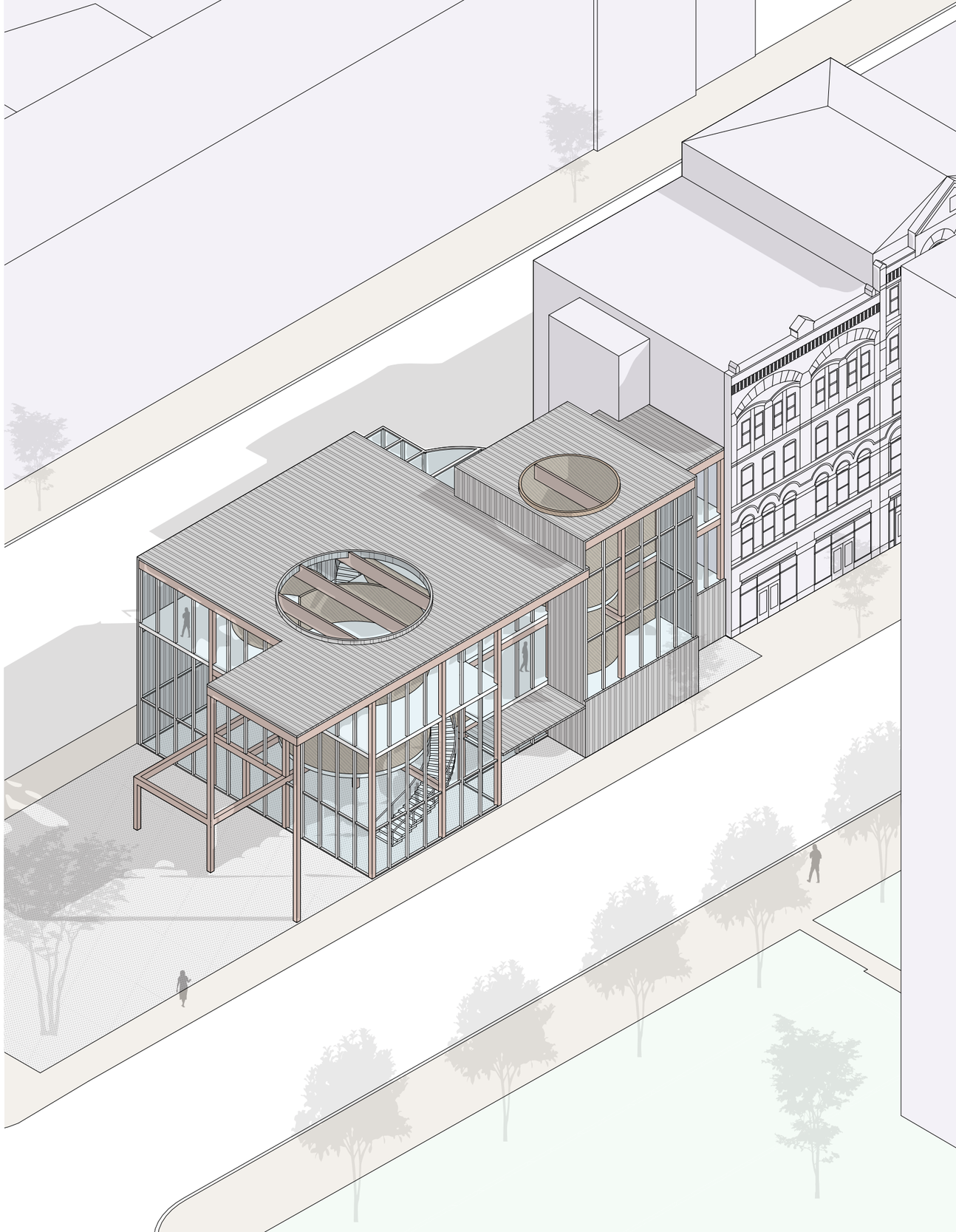
01 Tectonicon

2025 | Second Year - Spring Semester

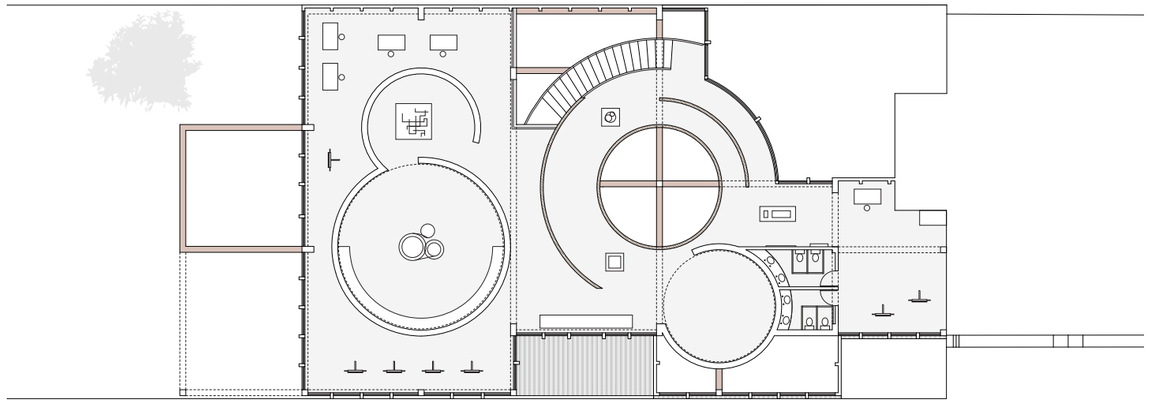
Located on a site in Northwest Syracuse, this project explores the tectonic qualities of structure while managing the programs of a residence, a gallery space, and a studio space. Before designing this project, I analyzed the Villa at Sengokubara by Shigeru Ban and it's structural and spatial elements. It featured a folding metal roof supported by a system of timber frames that allowed it to wrap around a circular courtyard. This Villa also contained tectonic, curved interior walls, which led me to explore the structural artist Richard Serra for the design portion of this project.

Seeing how Serra moved people within his tall steel curved forms, I became inspired and wanted to create a similar system that was based on circular forms and concentric circles. To rationalize a structural system, I used a grid where the endpoints and midpoints of these circular "drums" attached to a column or a beam. This steel members as well as most of the circular walls are the primary structural system in this project. A metal roof inspired by that of the Villa at Sengokubara would wrap around some of the walls and leave circular openings to act as skylights, enhanced by the circular forms underneath.

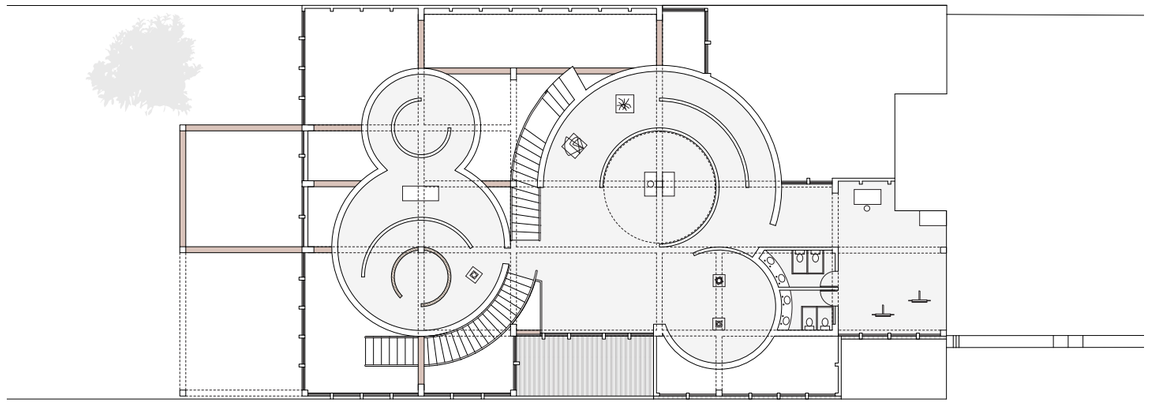
Programatically, the gallery spaces would fall within these circular volumes while the studio spaces are in the open, exterior negative spaces outside of these circles. The eastmost wing of the building is attached to the adjacent building, maintaining a connection with the site.



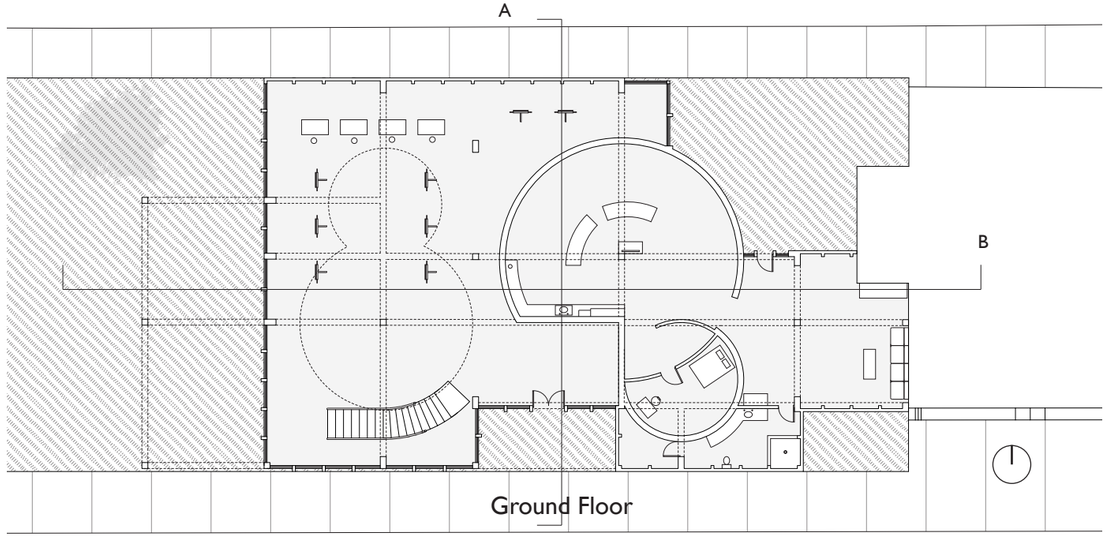
Axon with Site Context



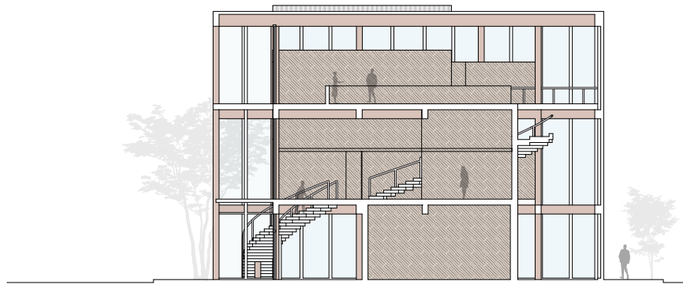
3rd Floor



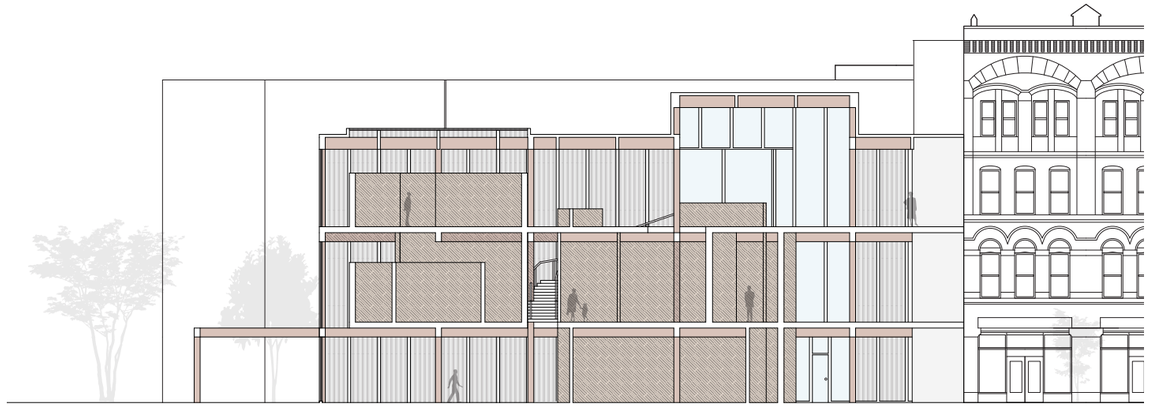
2nd Floor



Ground Floor



Section A



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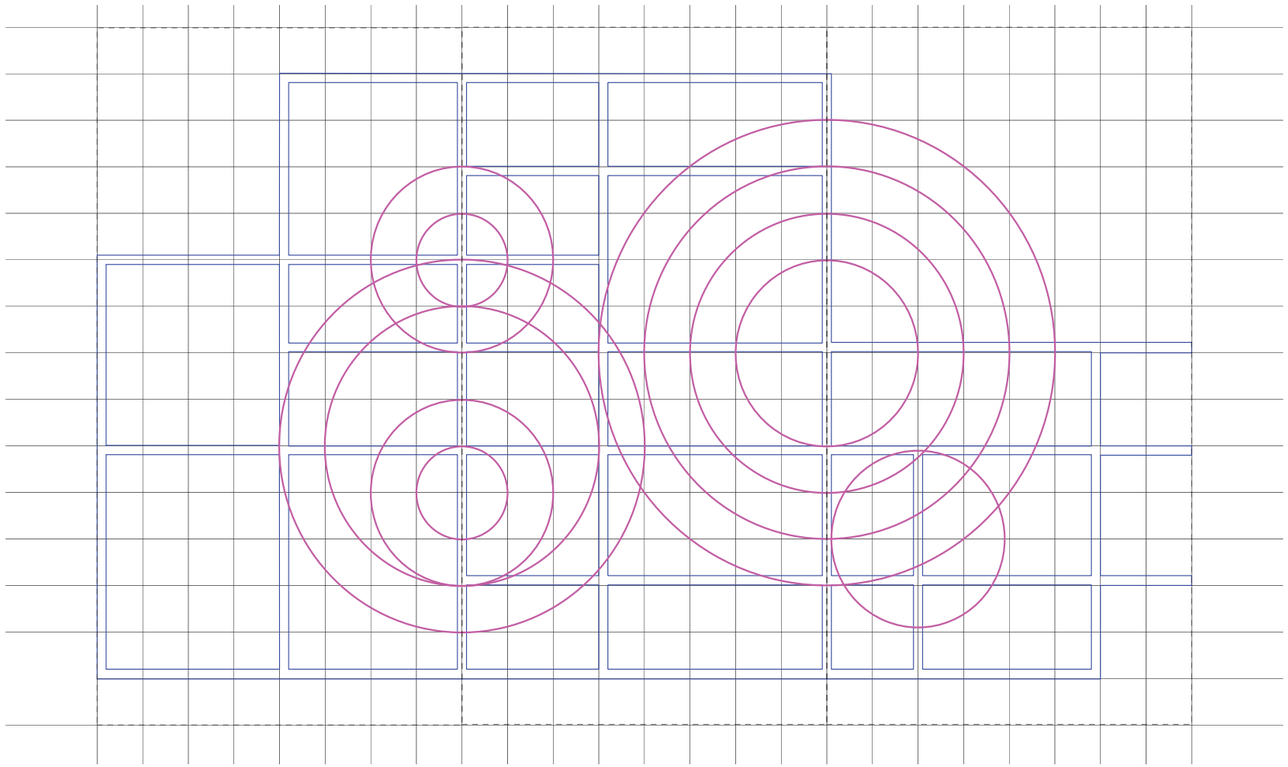
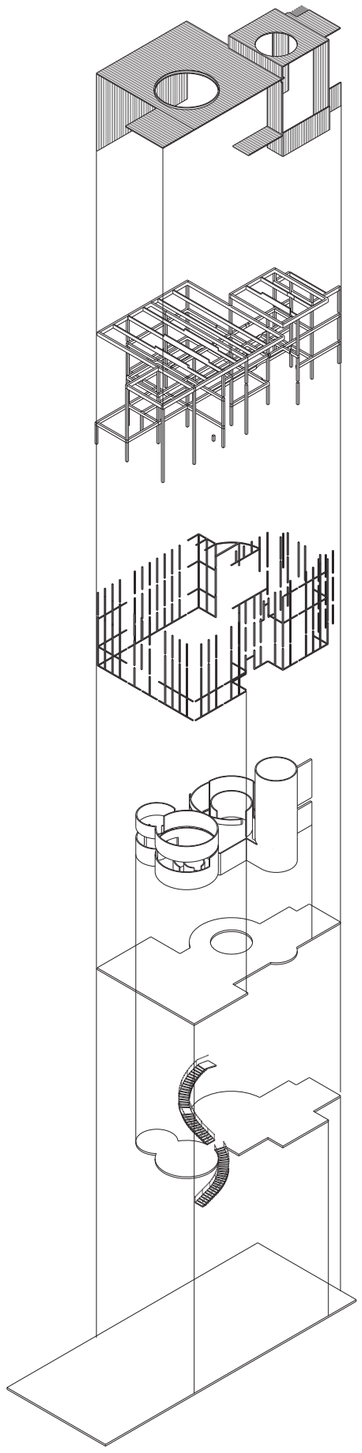
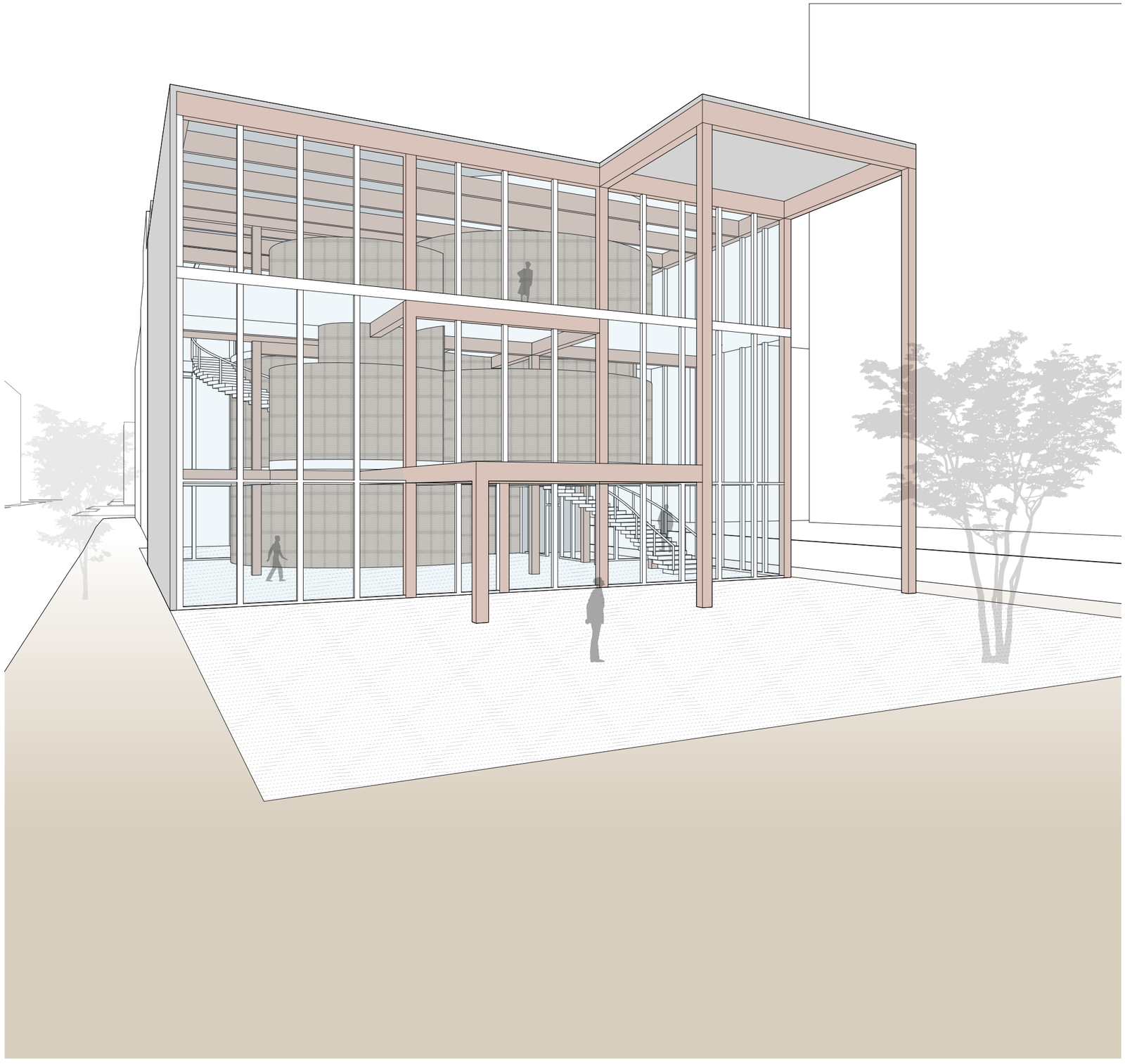


Geometric Logic

Elevation in Site



Structural Exploded Axon

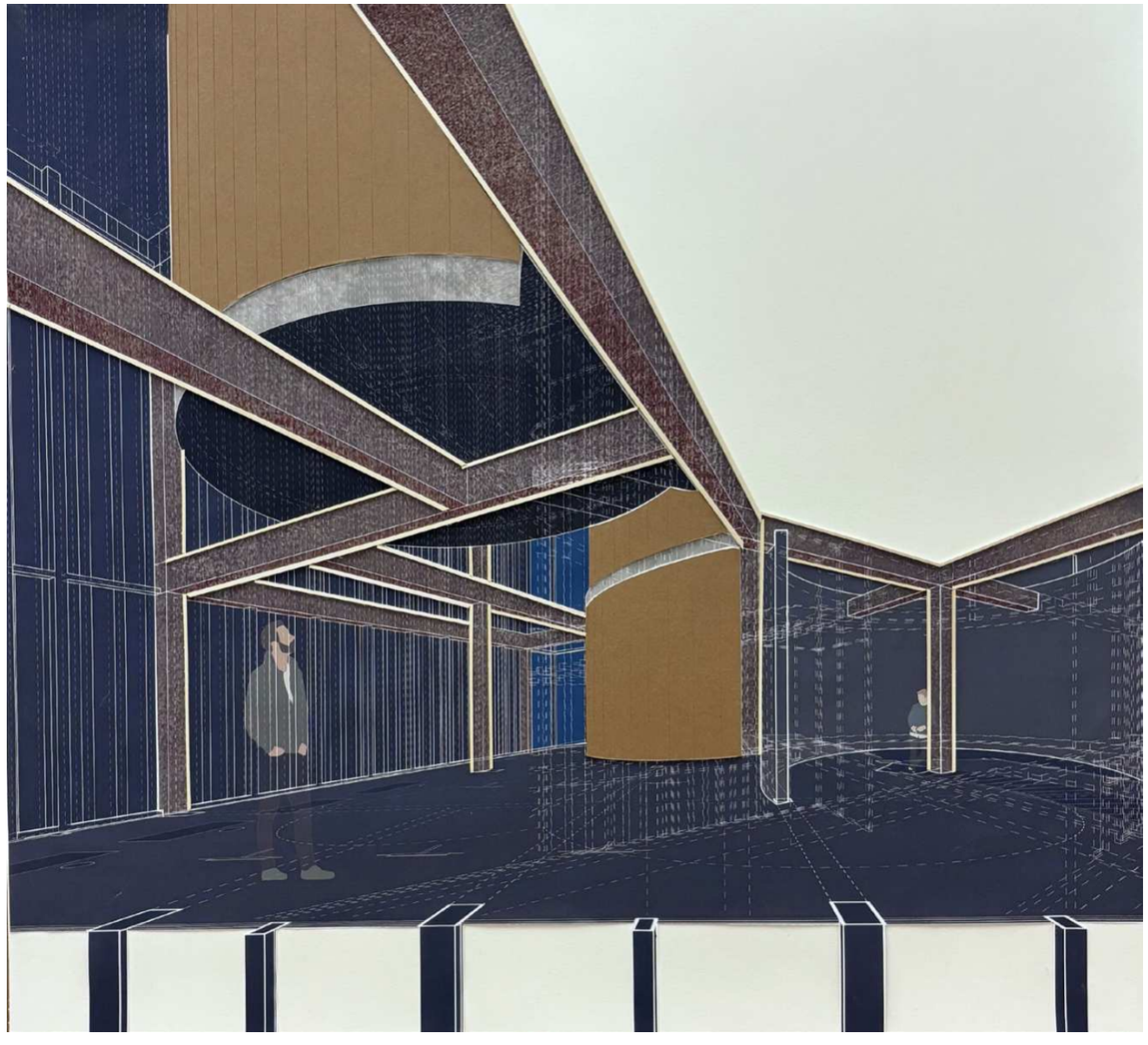


Perspective

02 Tectonic Collage Perspective

2025 | Second Year - Spring Semester

This week-long project was for the William J. Slivers Prize, a competition for second-year architecture students at Syracuse University. The prompt was to create a tectonic collage perspective based on our previous project. My collage combines two interior perspectives with a perspectival plan that moves viewers back into the drawing. Additional physical materials were added to create a more tactile piece.



Collage perspective drawing with basswood sticks
and brown museum board

03 Landweirding

2024 | Second Year - Fall Semester

This project was centered around the site of the Seneca Army Depot in Romulus, NY. This military depot was one of the munition storage locations used during World War II. Since, they have been abandoned and has been reclaimed by the landscape. 519 munition storage units, known as "igloos" populate the region in a grid. This site also contains the world's largest population of white deer, which are key to the ideas of this project.

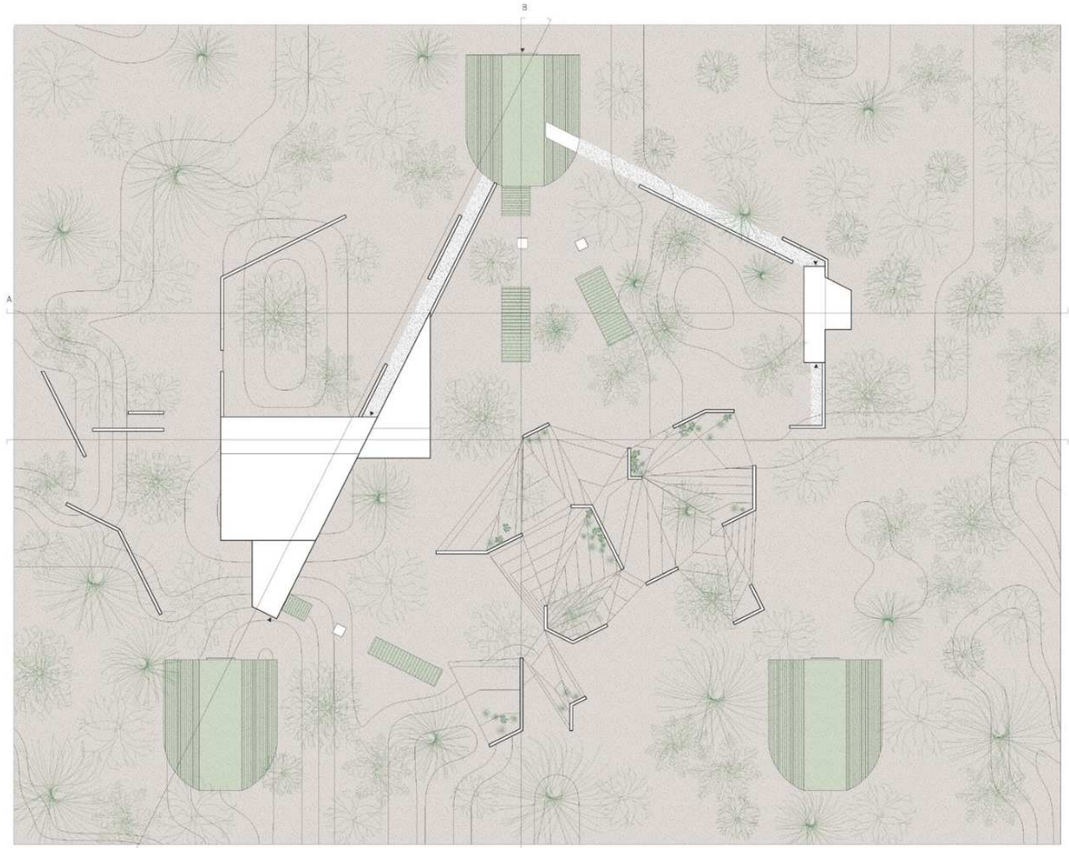
The program was a form of a deer research facility which included a large banquet hall and a few classrooms. A space was also required to theoretically respond to 100 white deer.

From the beginning, the composition of my design was informed by a set of underlying grids that would set a field condition. In plan, this project follows these triangular grids and bounds spaces. In section, the roofs of the buildings and the deer viewing decks are based off of the angles and wrapping of the natural landscape around the existing igloos. Exterior walls are extended along axes to form an idea of circulation that vary in height.

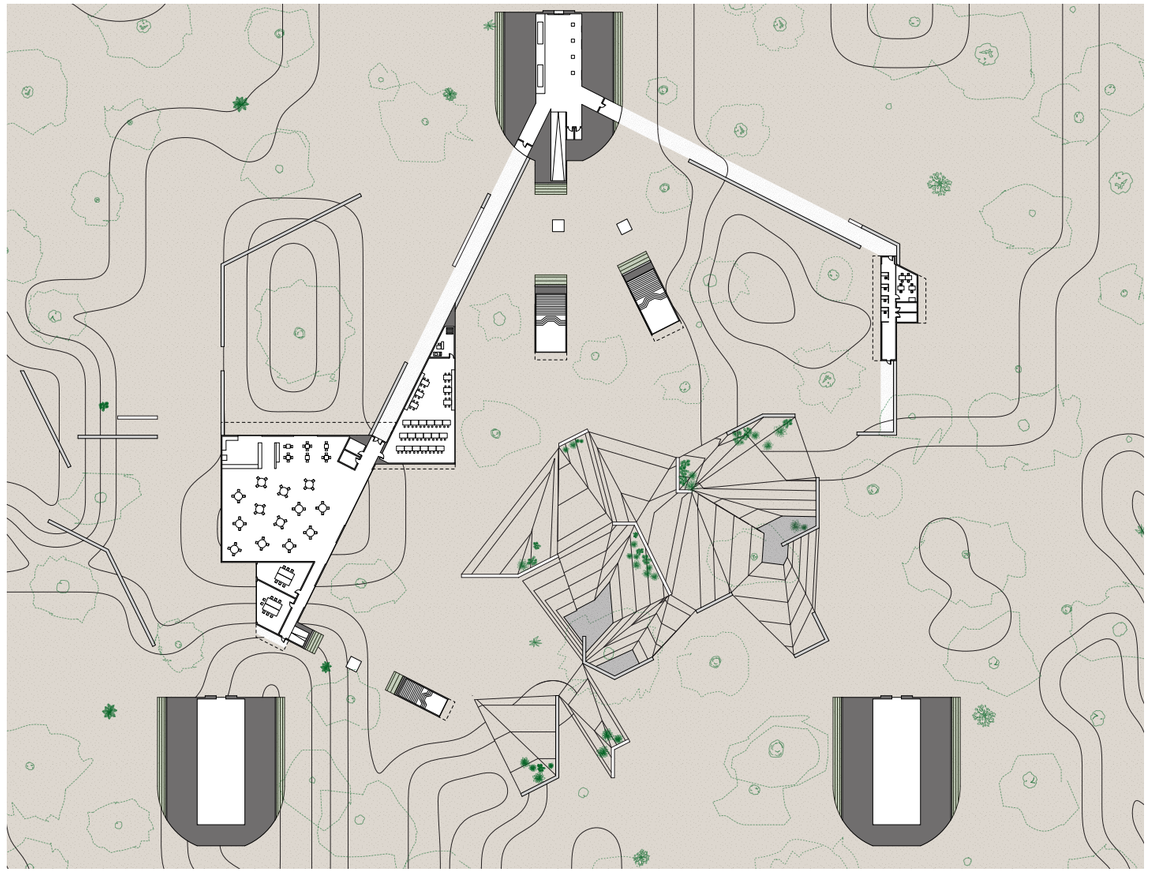
Humans should view the deer, but the deer, as the true owners of the land and respond to a different ground plane. The deer viewing decks act as tunnels that go under the surface and peak into a central area where deer are attracted to. This area includes a large series of sloping surfaces that connect to exterior walls that begin to break the strict grid composition. Overall, this project explores the relationships between humans, deer, and the built environment.

Perspective photo from phyiscal model

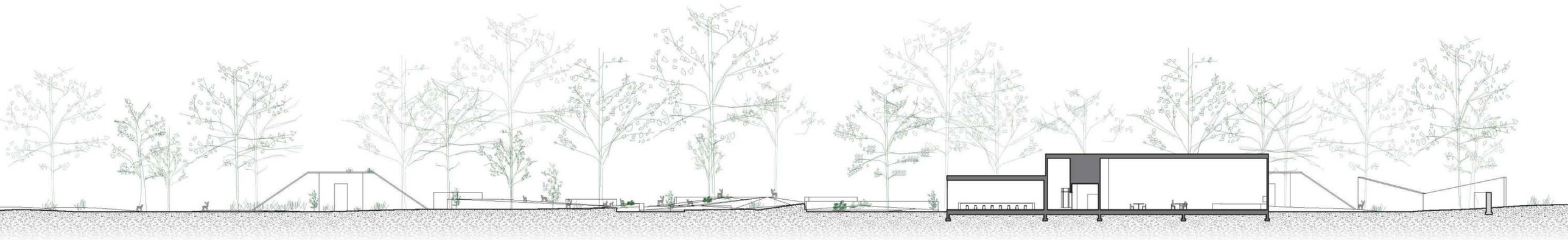
materials: museum board, basswood, pulp paper, paper towels



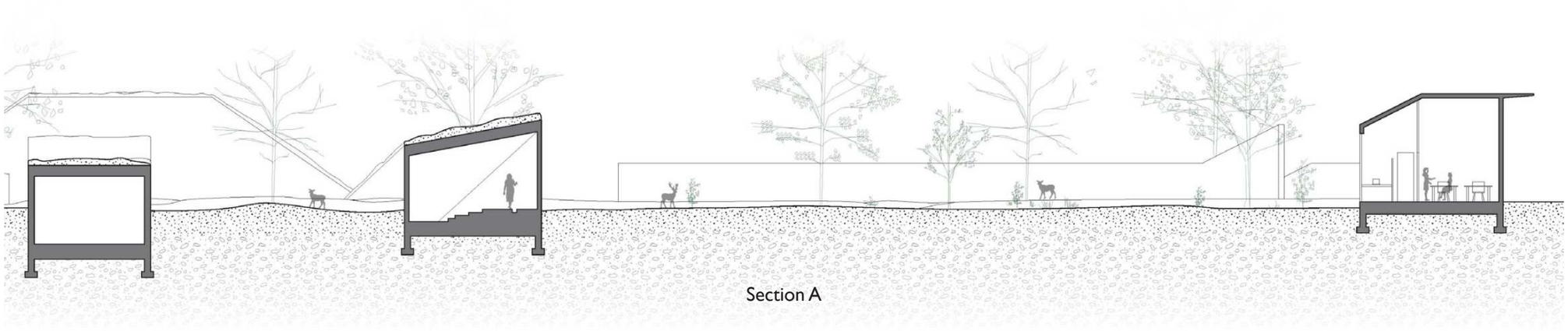
Site/Roof Plan



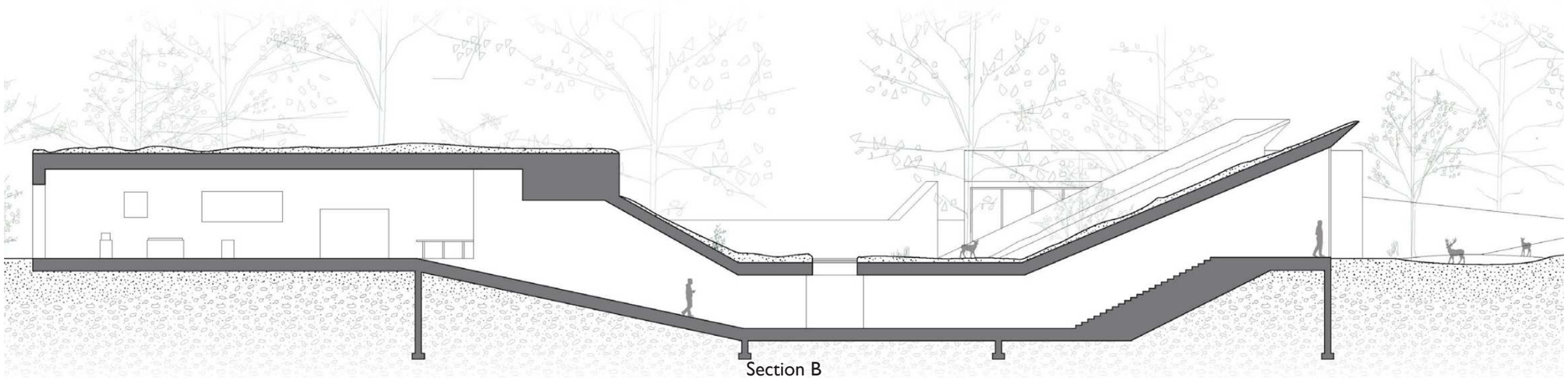
Building Plan



Site Section



Section A



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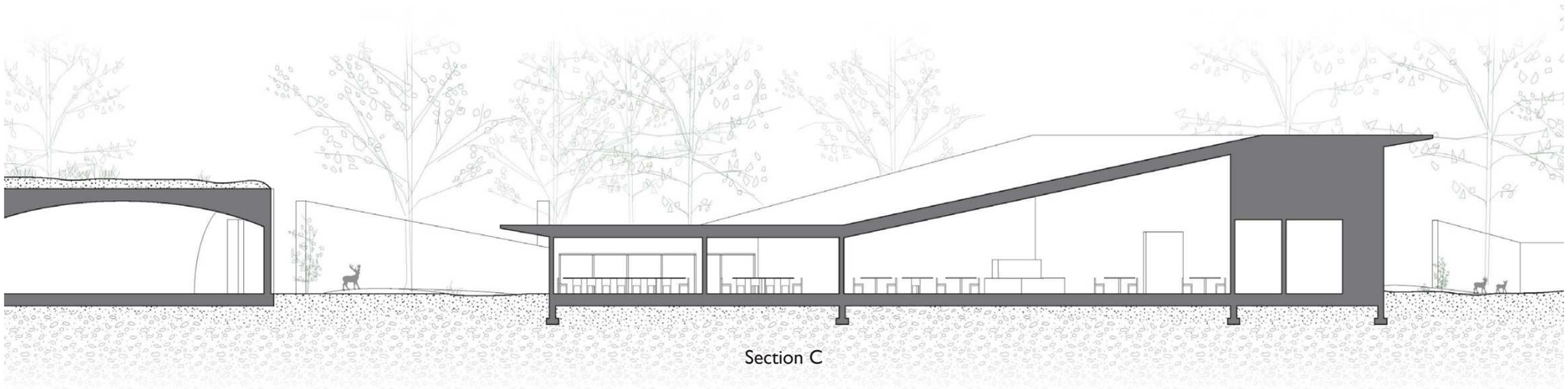

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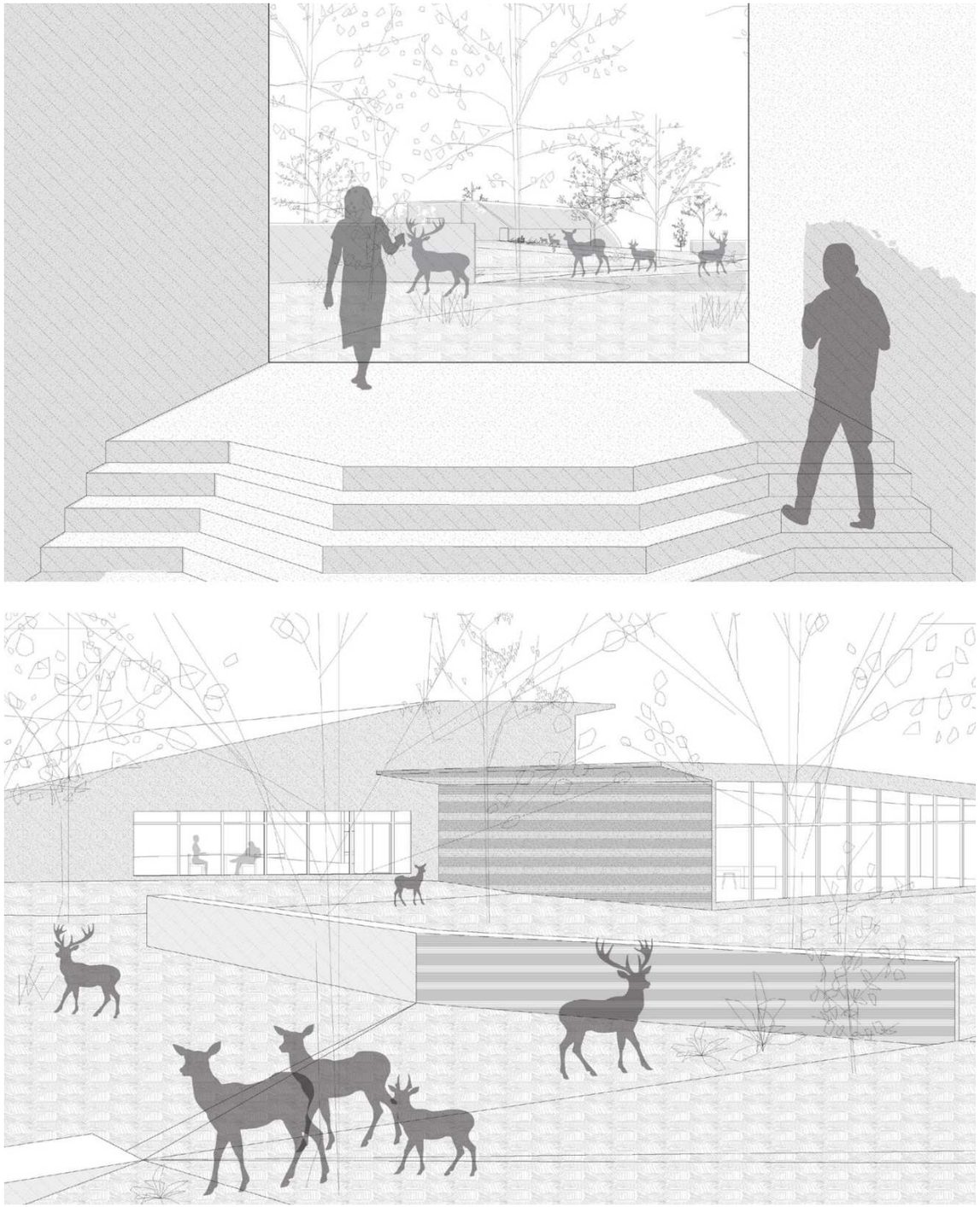
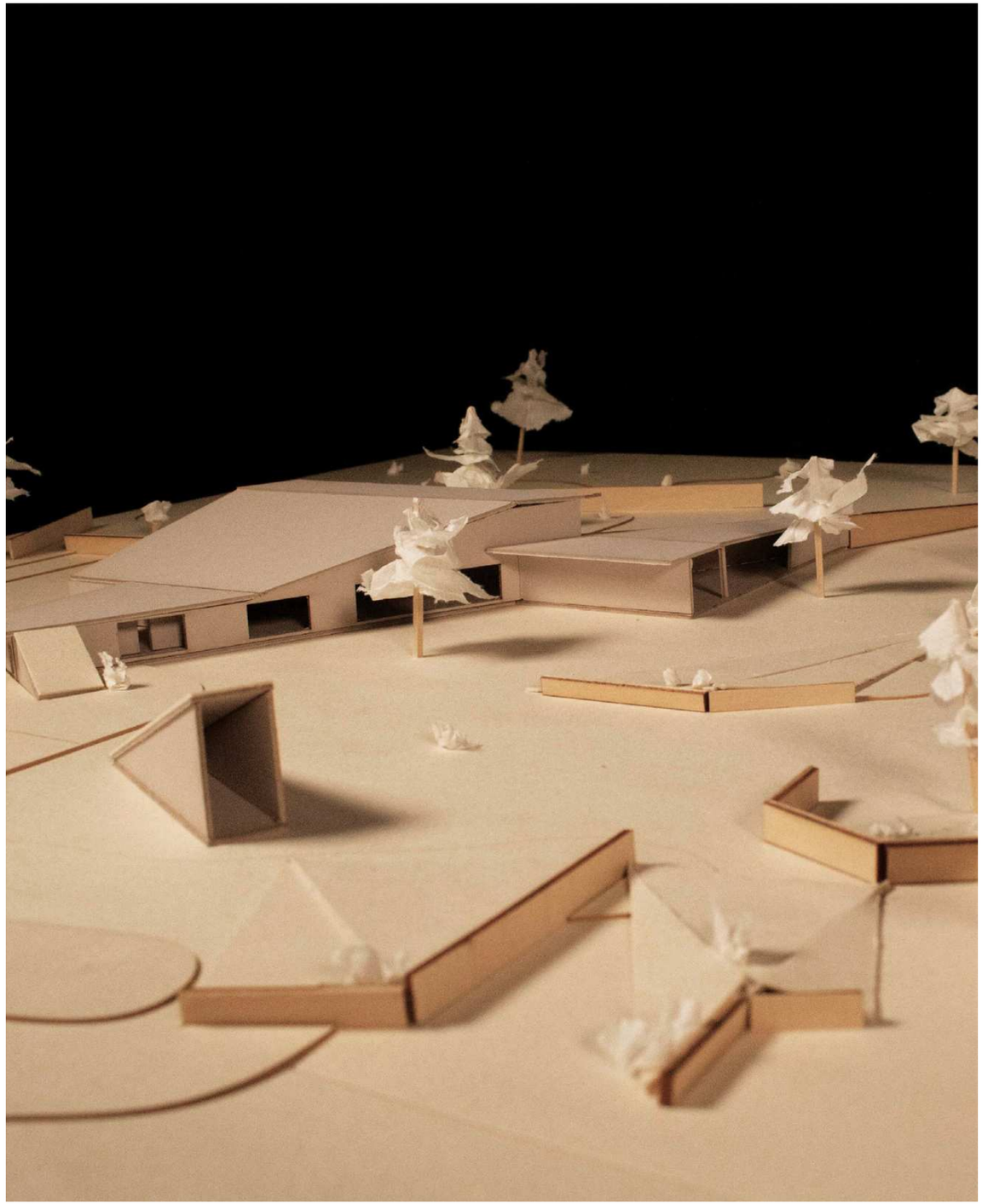


Perspectives



Model Perspective

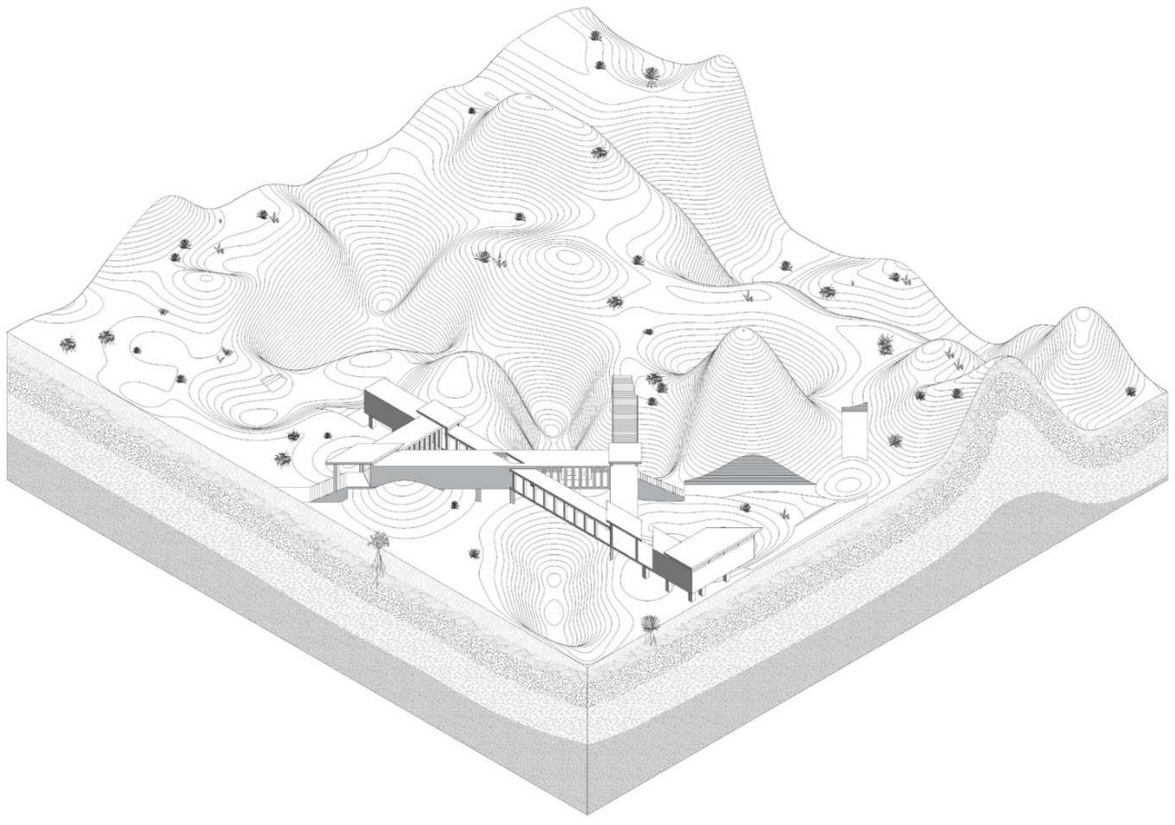
04 Looking Outside From In

2024 | Second Year - Fall Semester

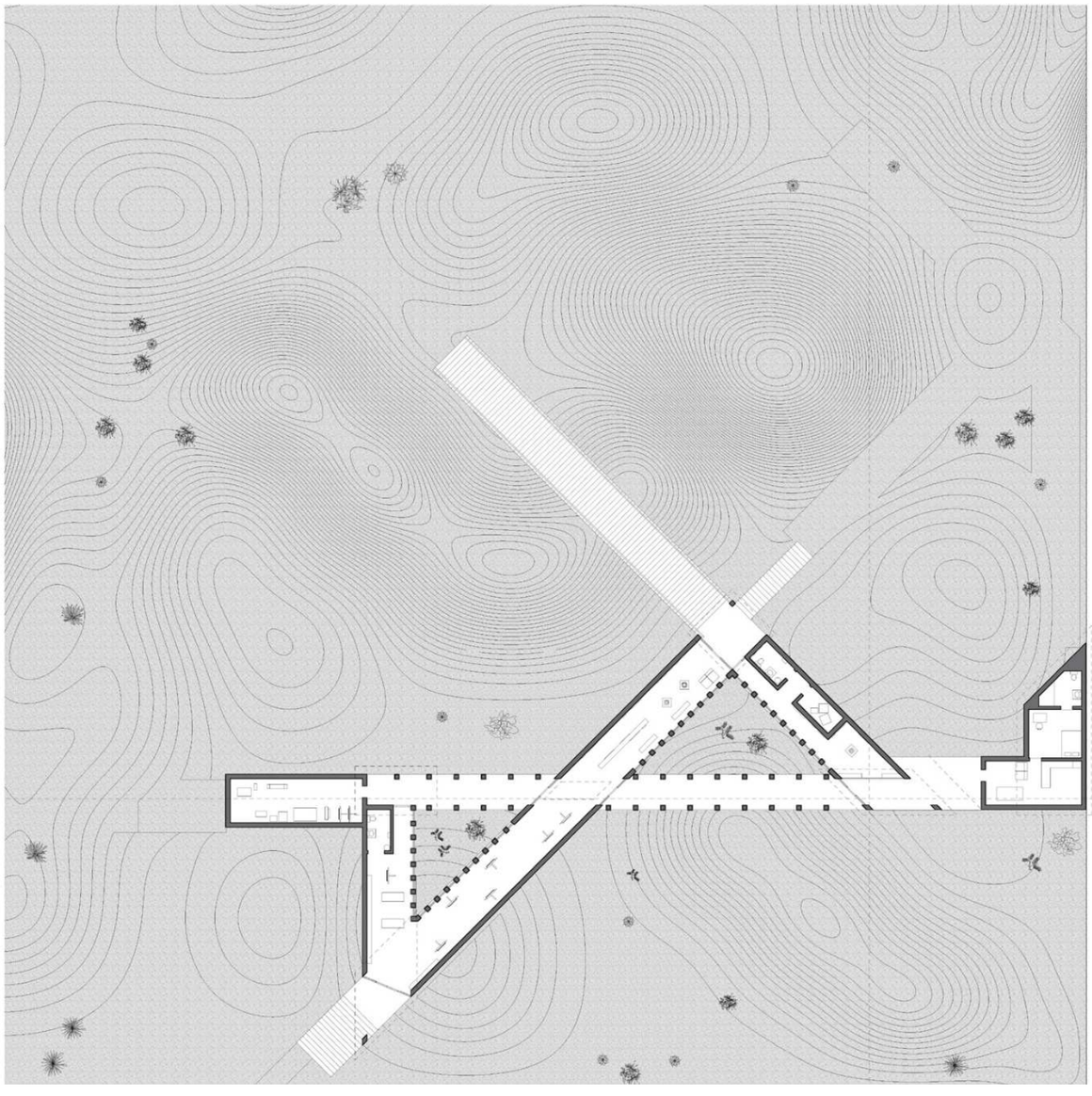
This project began with analyzing Kay Walkingstick's painting, "New Mexico Desert". Working with peers, the landscape featured in the painting was analyzed and recreated to be the site in which the building would be located. The building, holding the programs such as a studio, an exhibition space, and a residence for the artist framed views relative to the various peaks and dips in the landscape. These views were framed by sets of axes that connected landscape typologies such as valleys and canyons.

The program is divided into three sections, connected by loggia-like colonnaded spaces. These spaces are intended to view outward while the programmatic spaces view into themselves internally. The building mostly floats above the landscape by a series of columns.

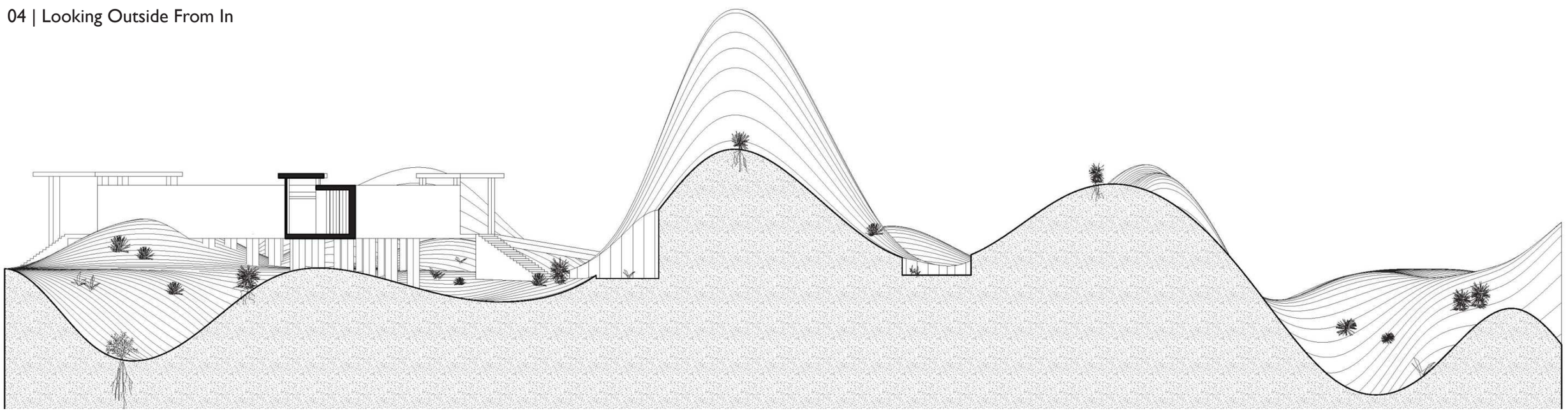
Diagram demonstrating axial qualities and typologies of landscape, composition that drove project



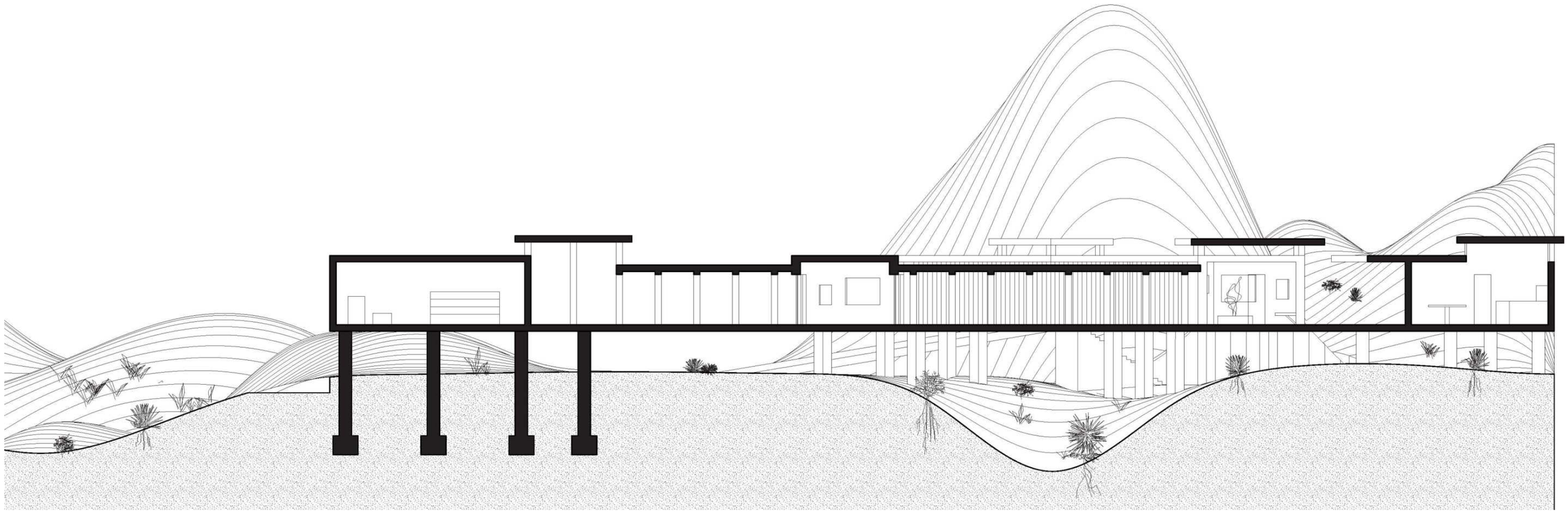
Site Axonometric



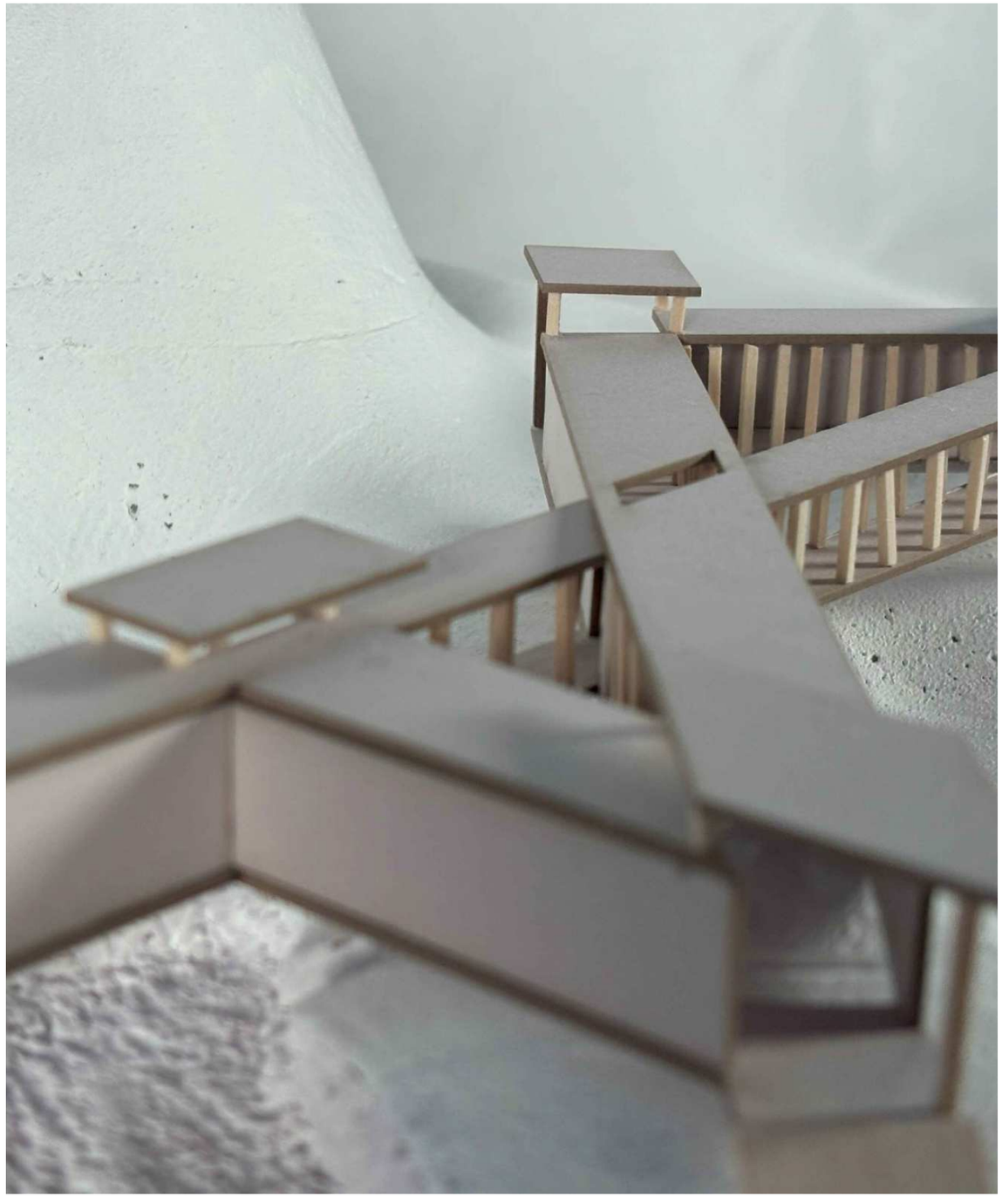
Building Plan

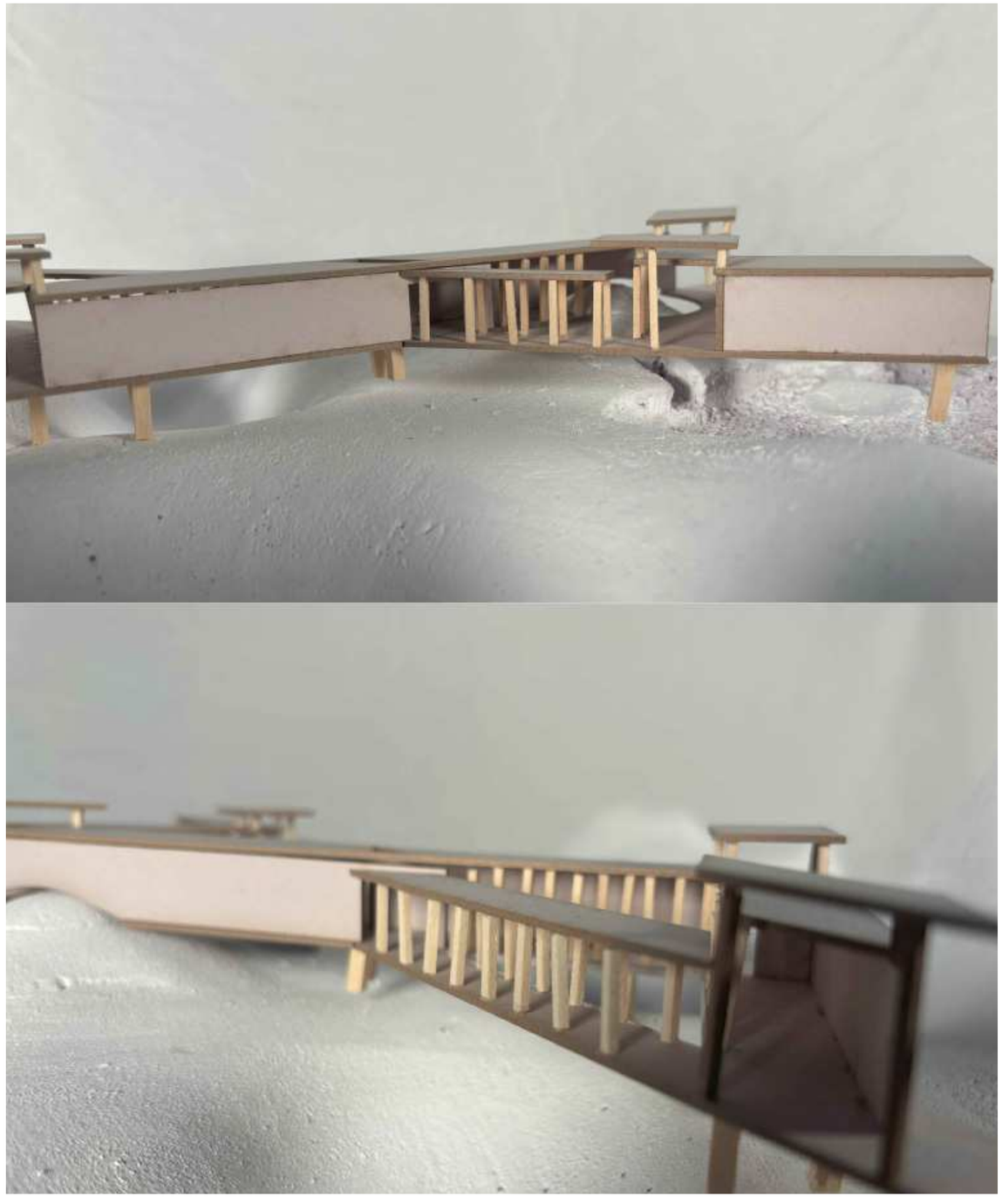


Site Section



Building Section



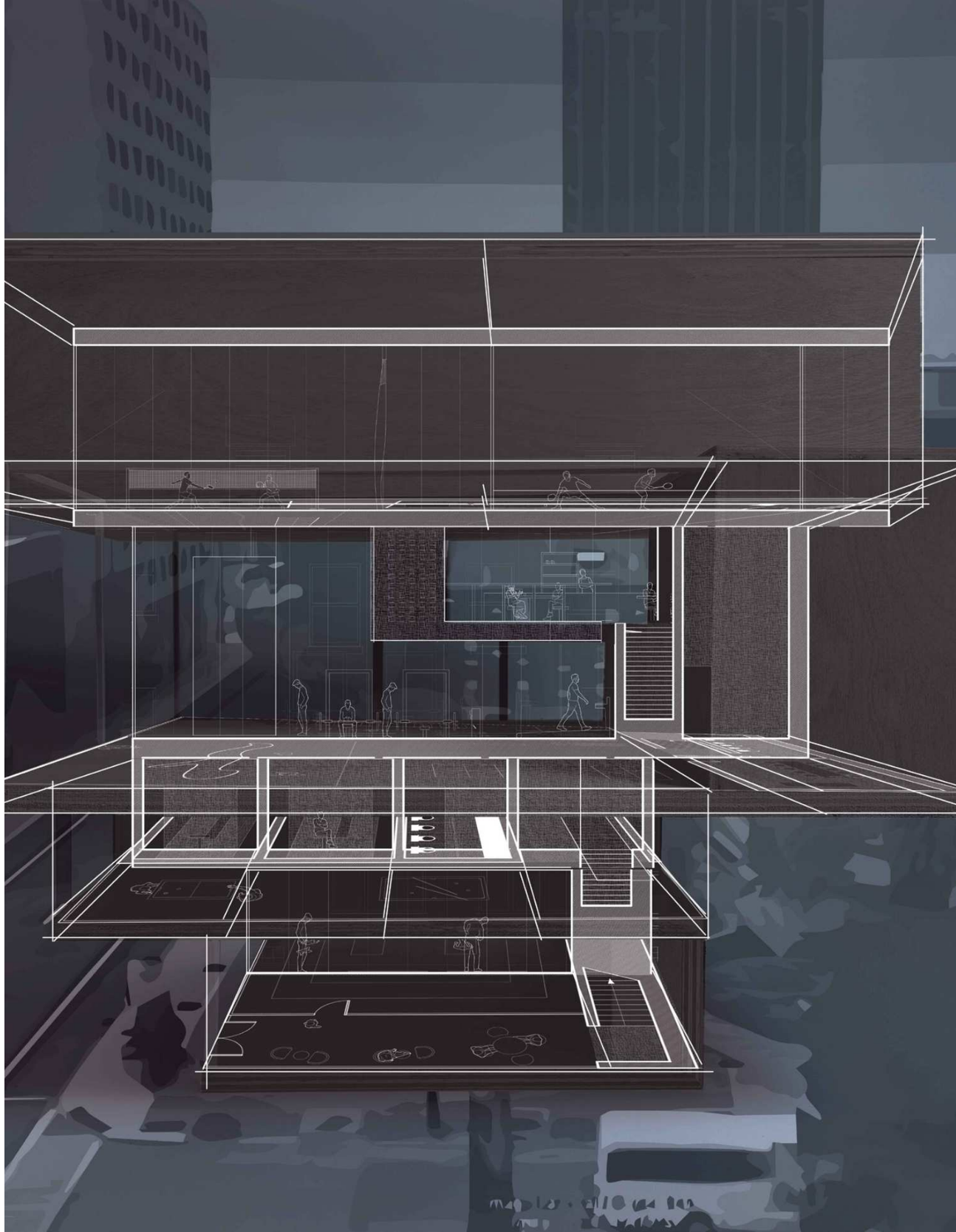


05 Continuum Complex

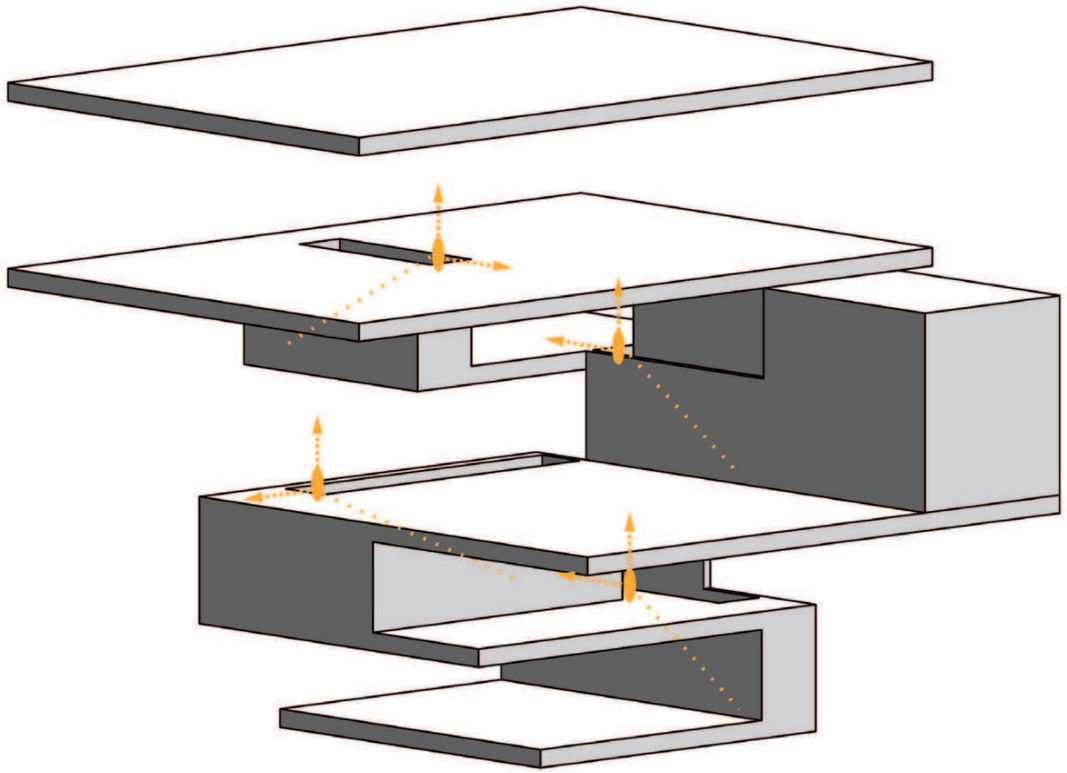
2024 | First Year - Spring Semester

This multi-media based project revolves around the properties of site and program, and builds on abstracting conditions of buildings. Situated on W Onondaga St in Syracuse NY, the site is very open and maintains views to several surrounding historic buildings and monuments. With these experiential moments came the challenge of responding to the sidedness of the site.

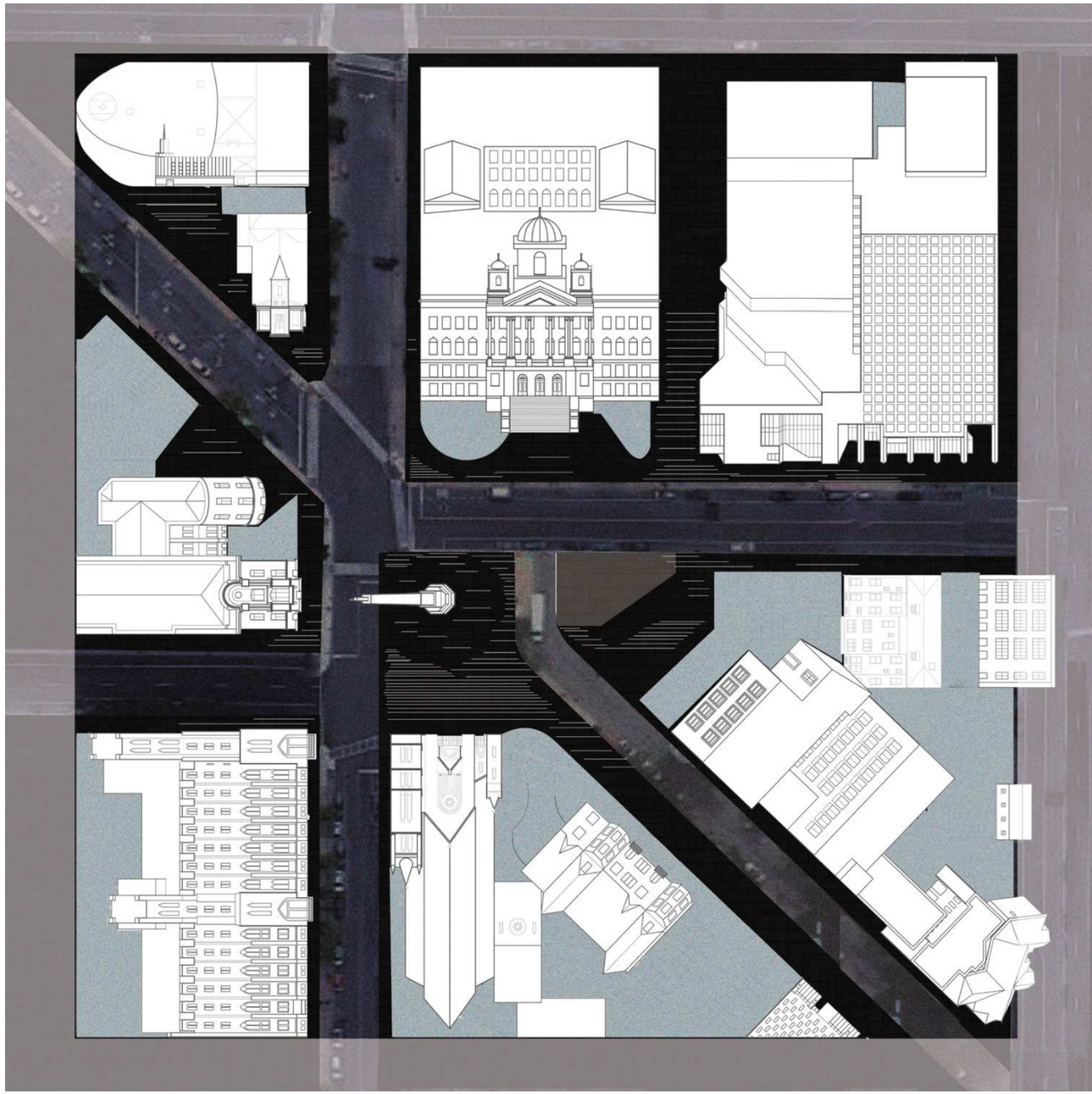
This design, called "Continuum Complex" incorporates the relationship between a continuous thickened surface as it shifts and wraps around several dimensions. It features thickened "solid" conditions that the visitor will move into and out of. As a very open structure, the program also works with the sidedness of the site and the buildings around it, providing open views to three of the four sides.



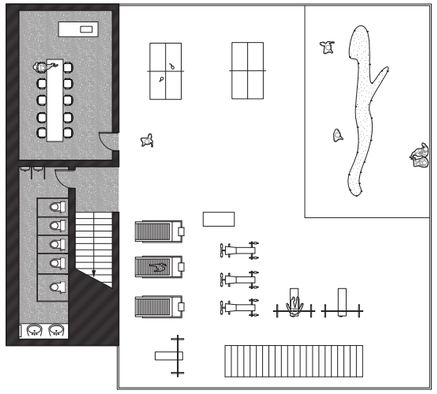
Composite drawing featuring built plywood model and projection drawings



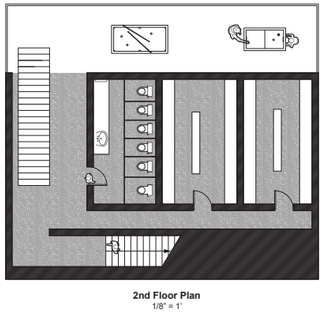
Entering and exiting thickened volumes, shifting surface



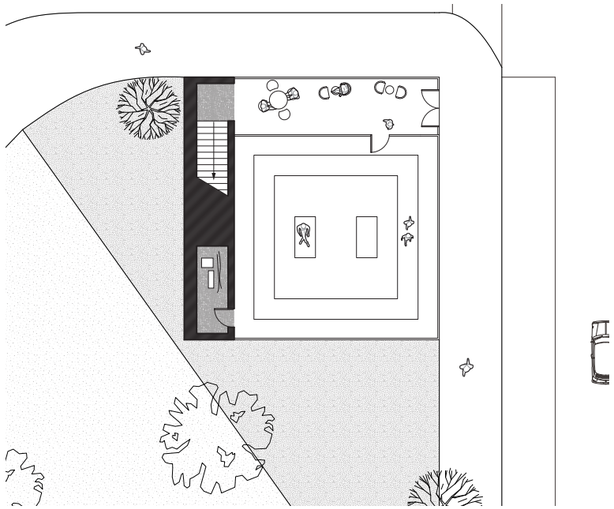
Overlay image exploring pockets of space within site



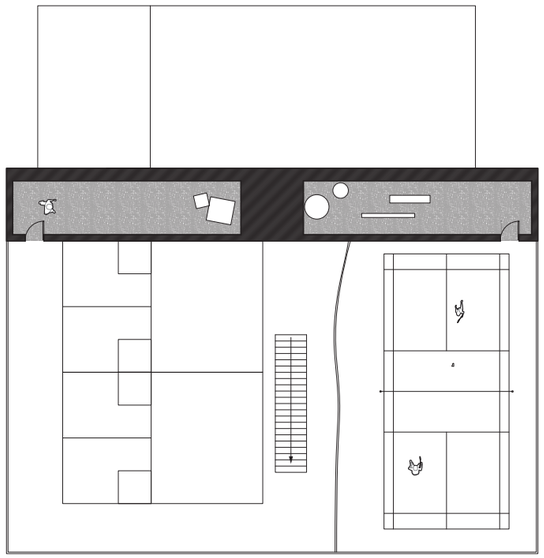
3rd Floor Plan
1/8" = 1'



2nd Floor Plan
1/8" = 1'



Ground Floor Plan
1/8" = 1'



5th Floor Plan
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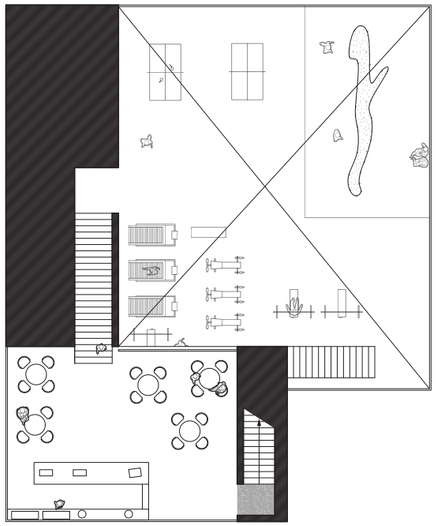


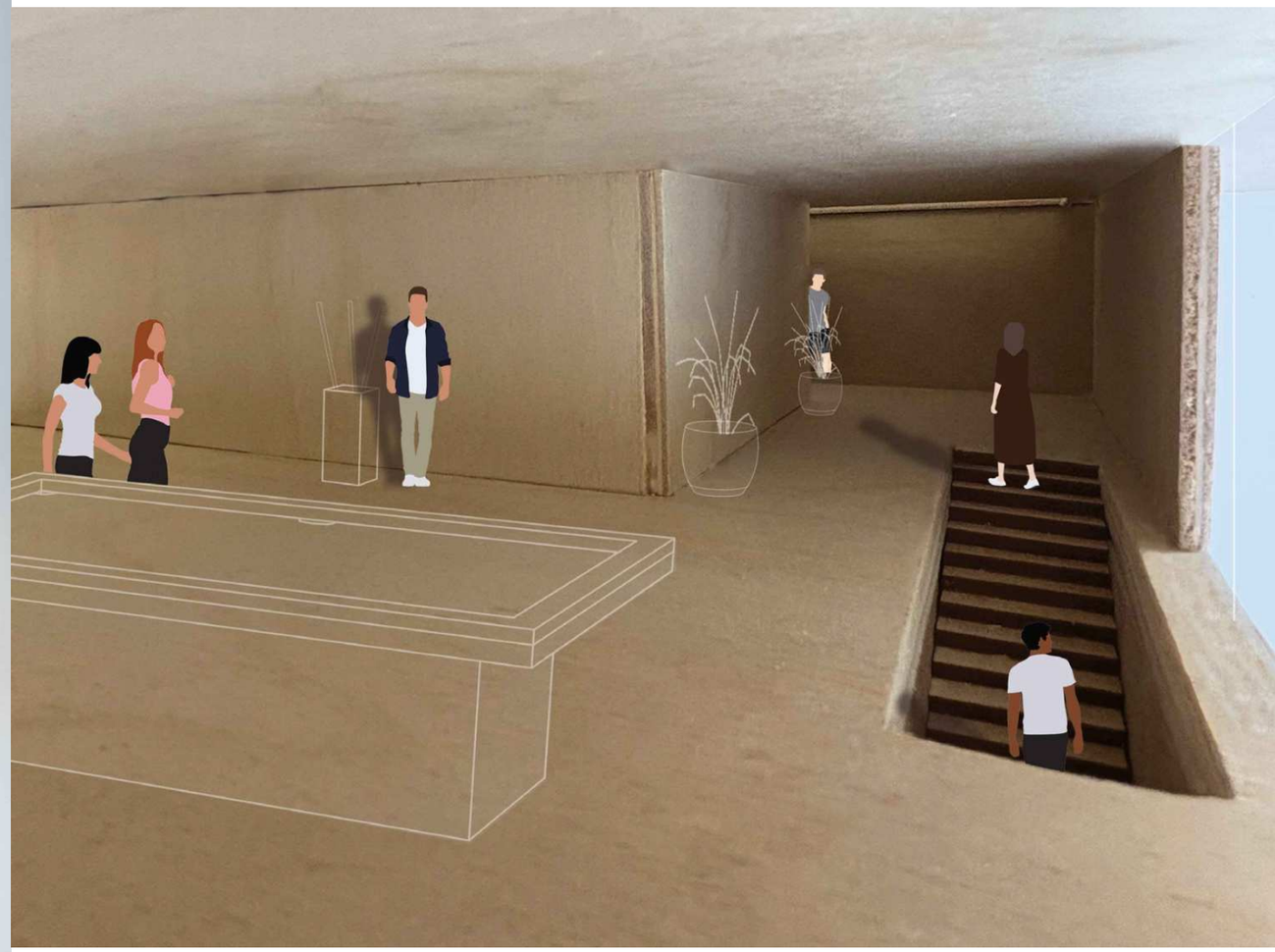
4th Floor Plan
1/8" = 1'

Floor Plans

Section 01
1/8" = 1'

Section 02
1/8" = 1'

Building Sections



THANK YOU

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