

Work that I couldn't of done without my friends I came here with.

PILOT FLYING J BRAND STUDY



33 THOMAS



MODULAR LIVING



MONUMENTS TO NATURE



INTERCONNECTIVITY



ASTOR PLACE AMBIANCE



POSITIVE NEGATIVE



VARIOUS VISUALS





Rendering : View of the new Pilot Flying J from W Front Street.

PILOT FLYING J BRANDING STUDY

Battle Mountain, Nevada.

Pilot Flying J is one of the marquee travel center companies in the US. Their client base is not only industrial logistics partners, but also typical civilian travel creating an beautiful opportunity to design around these different flows. Pairing this with the environmental regulations of today and the immediate future, adding electric vehicles into the mix only creates a richer opportunity to design for the immediate change in the vehicle landscape. This leads us to believe the temporal nature of travel centers and fueling stations have a longer use period per stop, meaning opportunities to beyond just refueling exist and we began to study those and learn what works best and why should Pilot Flying J have it.

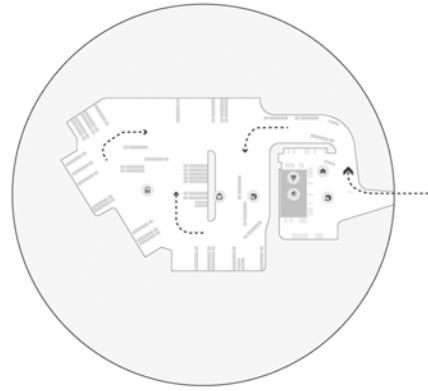
Pilot Flying J has 786 stops around the country with different identities because it's never been truly updated and upgraded following different mergers. The question we asked ourselves was, how can we create an updated unified brand that takes into account the technological and sustainable changes that meet the needs of the Pilot Flying j users and employees through a mass and easily deployable product?

Studio Critic: Michael Bell
Spring 2023 - ADV 6

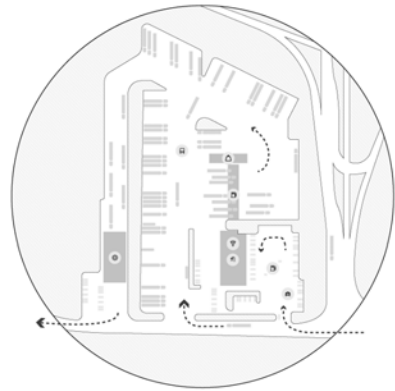
Partner: Joachym Joab



1880 W Winnemucca Blvd, Winnemucca, NV



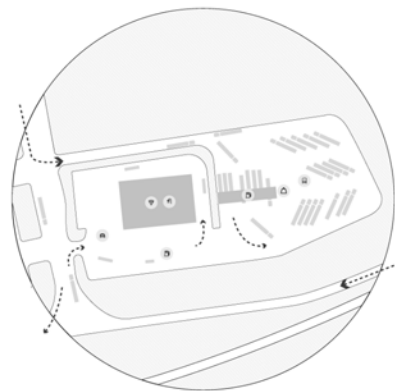
5625 W Winnemucca Blvd, Winnemucca, NV



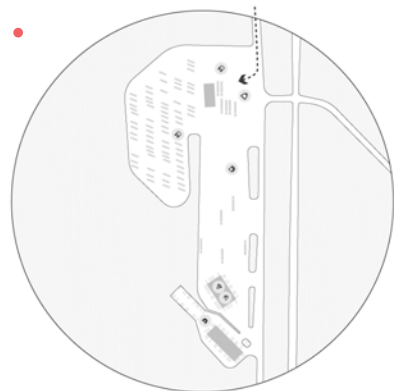
465 Pilot Rd, Fernley, NV



3812 E Craig Rd, North Las Vegas, NV



480 Truck Inn Way, Fernley, NV

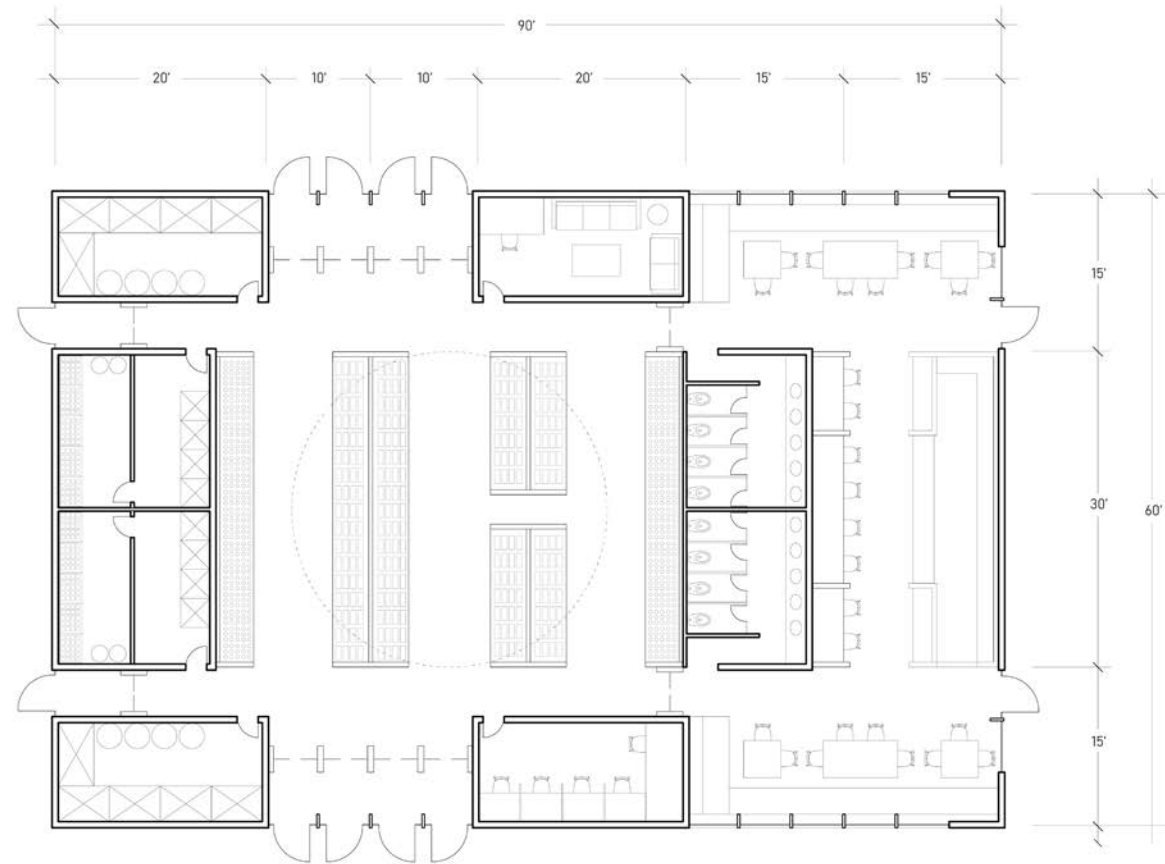


650 W Front St, Battle Mountain, NV

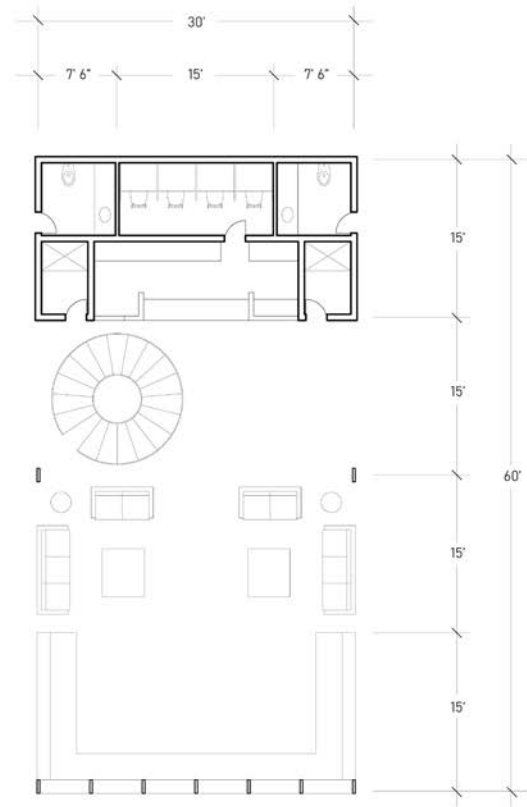
Diagrams : Six Pilot Flying J's across Nevada being analyzed.



Map : The 9 total Pilot Flying J's in Nevada. Site in red.

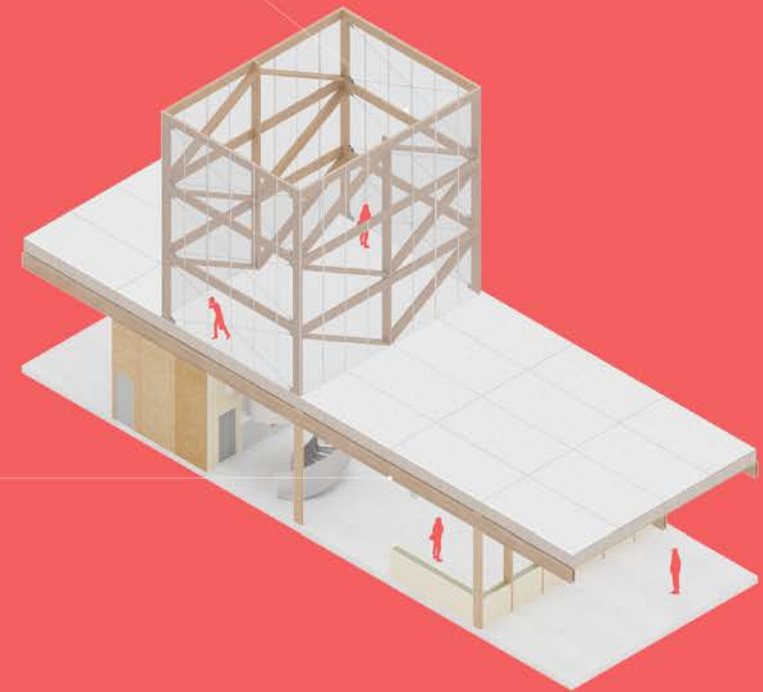


Rendering: Entry into the Pilot Flying J between the grocery module and welcome center.



SIGNAGE TOWER

GLULAM BEAM COMPONENTS



6 - STANDARD WALL COMPONENTS



6 - CORK SIDE WALL COMPONENTS



6 - HALF GLAZING WALL COMPONENTS



1 - STAIR COMPONENT



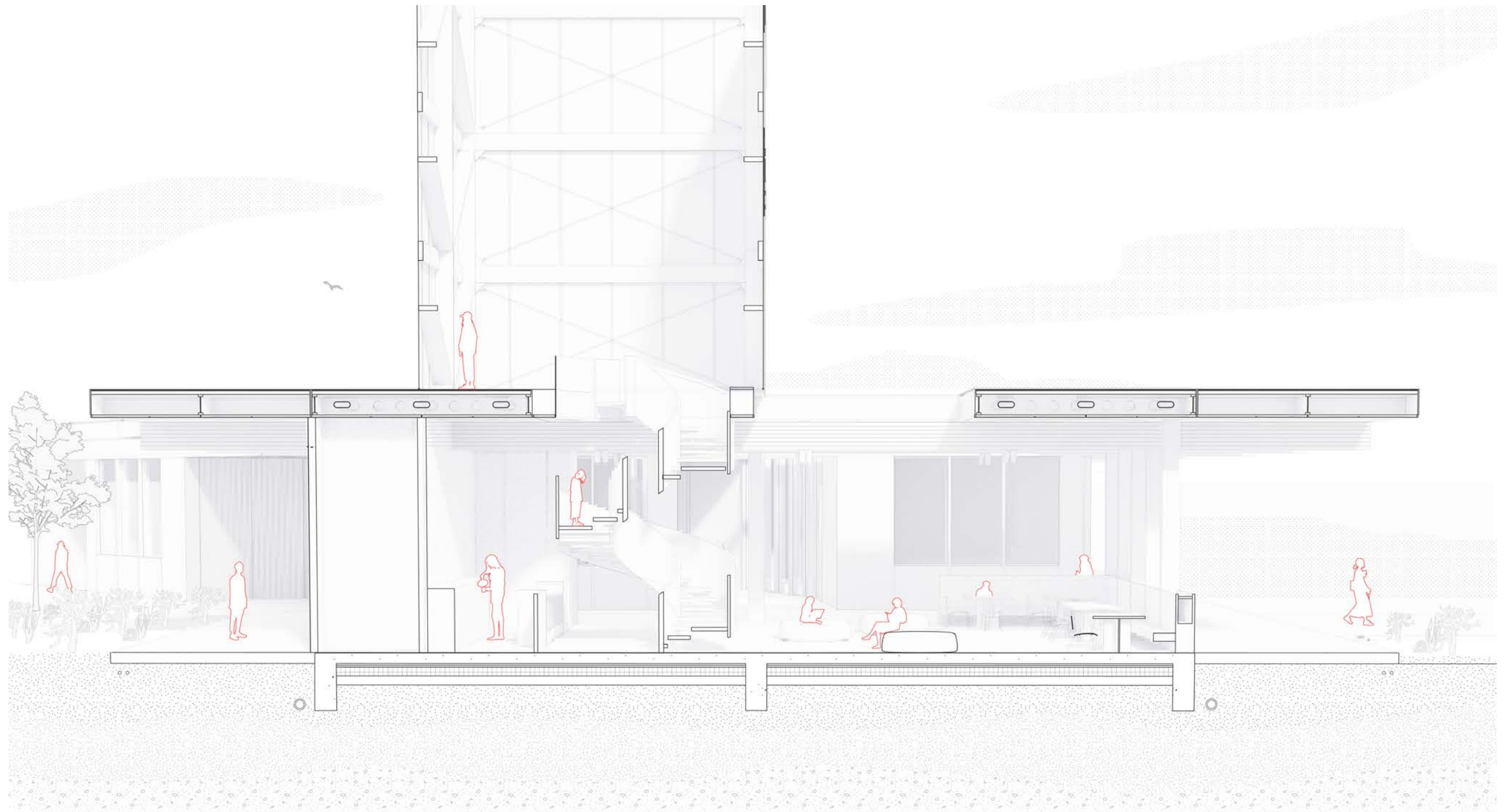
13 - INTERIOR WALL COMPONENTS



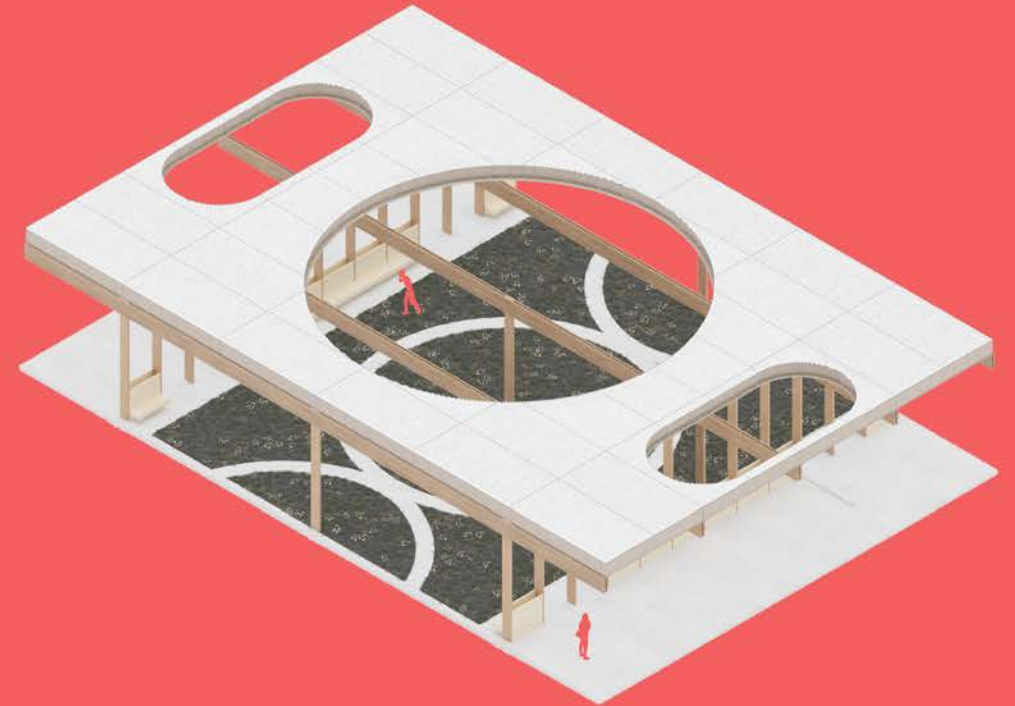
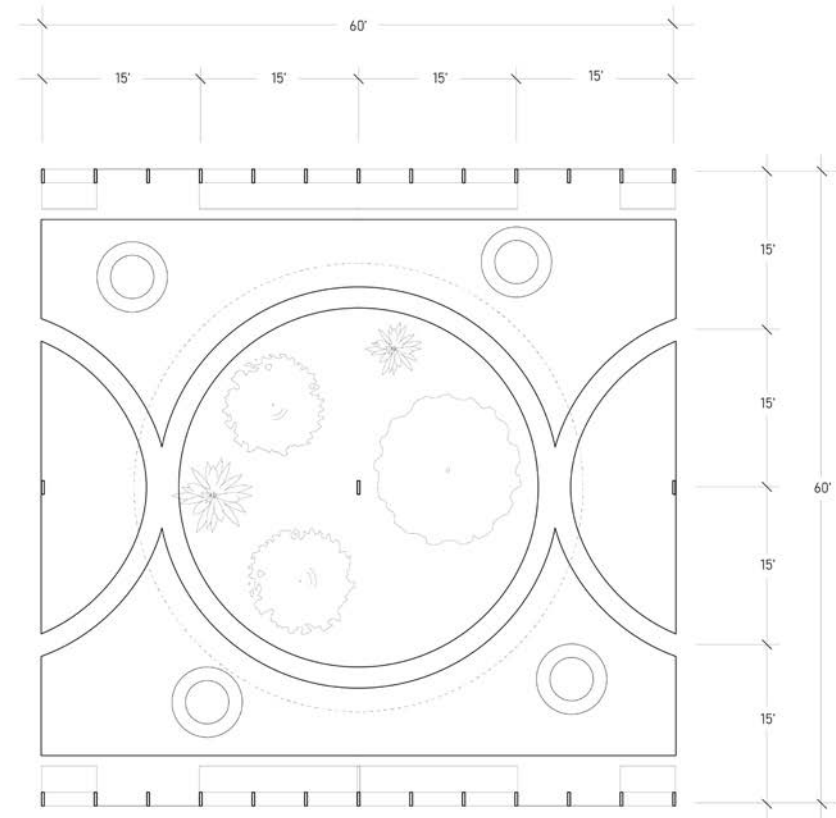
3 - GLULAM BEAM COMPONENTS






10 - ROOF COMPONENTS



Section : Cut through the Welcome Center module.



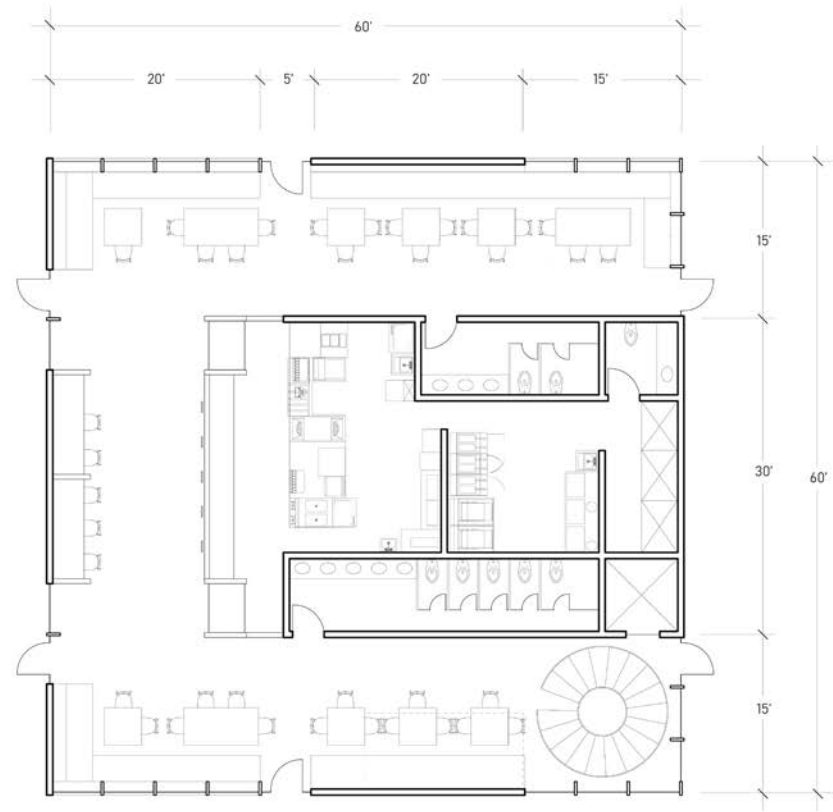
-  20 - ROOF COMPONENTS (12 TYP.)
-  5 - GLULAM BEAM COMPONENTS
-  16 - HALF GLAZING WALL COMPONENTS

Rendering : The interior courtyard shared between the building massing.



Rendering : The manicured green space for the Park Module adjacent to the Playground Module.

Floorplan : Restaurant Module's lower level floor plan.

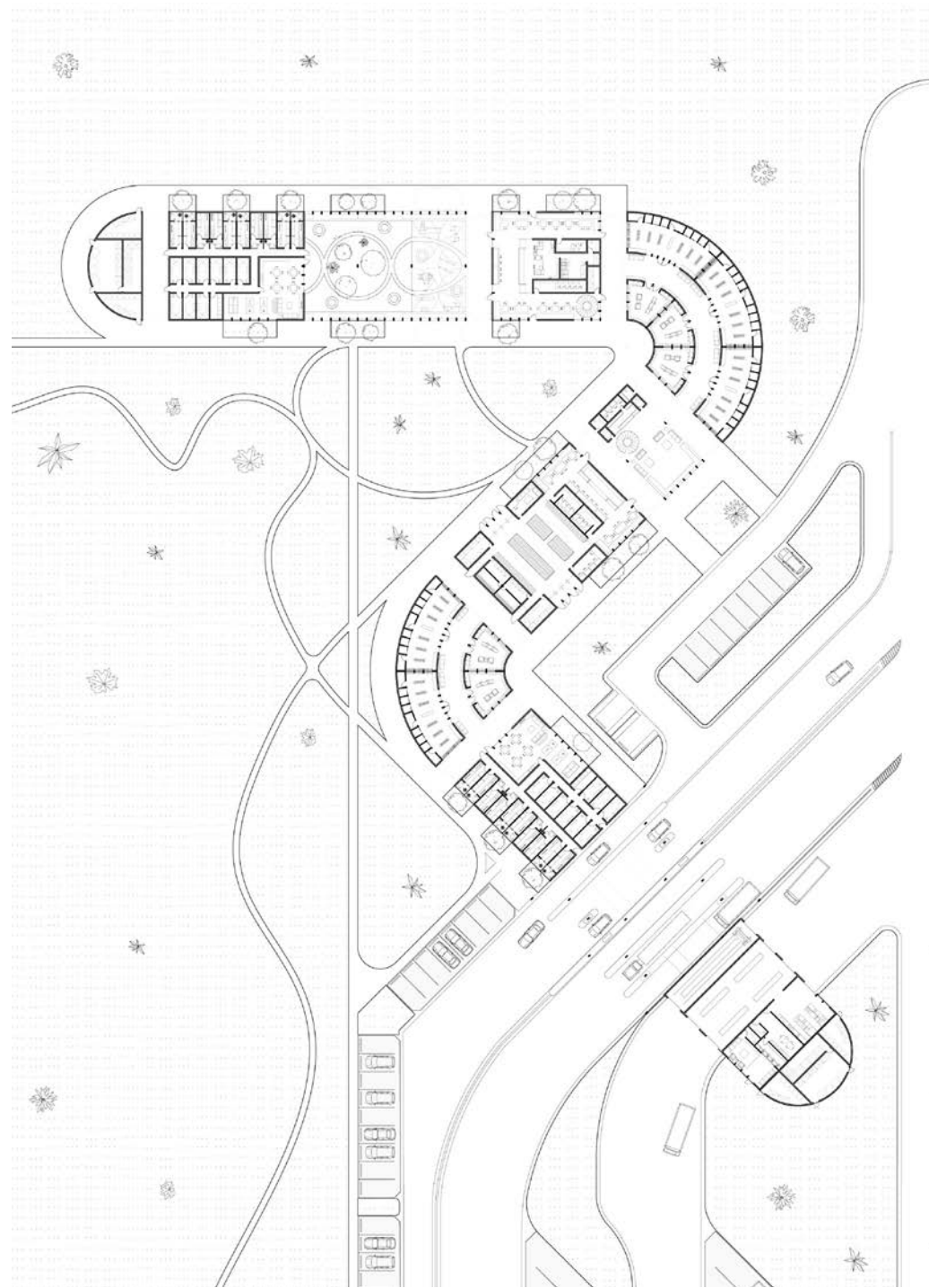


- 8 - STANDARD WALL COMPONENTS
- 16 - CORK SIDE WALL COMPONENTS
- 8 - HALF GLAZING WALL COMPONENTS
- 13 - FULL GLAZING WALL COMPONENTS
- 35 - INTERIOR WALL COMPONENTS
- 5 - GLULAM BEAM COMPONENTS
- 20 - ROOF COMPONENTS (15 TYP)
- 5 - KIOSK COMPONENTS
- 1 - STAIR COMPONENT

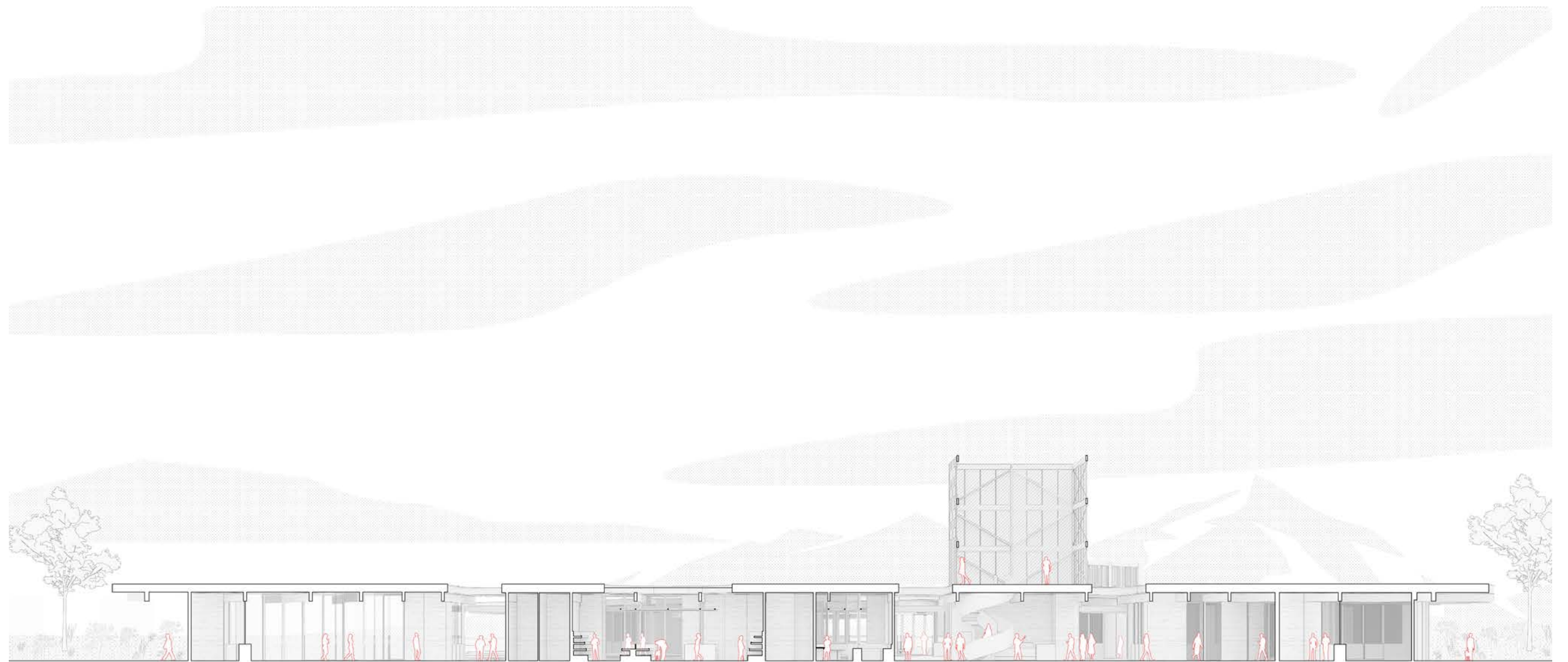


Rendering : Grocery Module Interior.

Floorplan : Pilot Flying J 693's Building Plan at Battle Mountain.



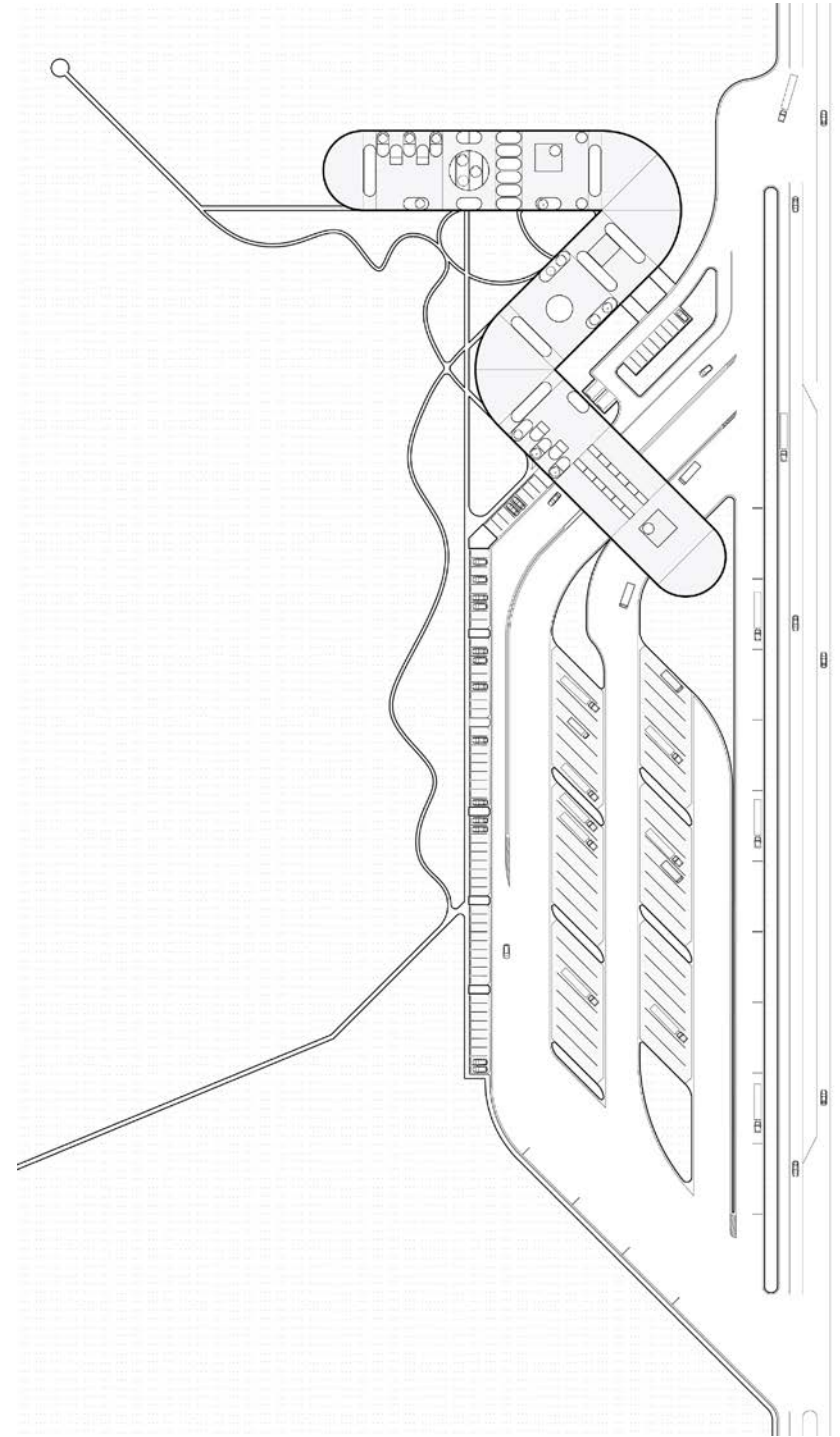
Rendering : The vehicular approach to the new Pilot Flying J.



Building Section : Cutting through the Welcome Center and Grocery Modules.

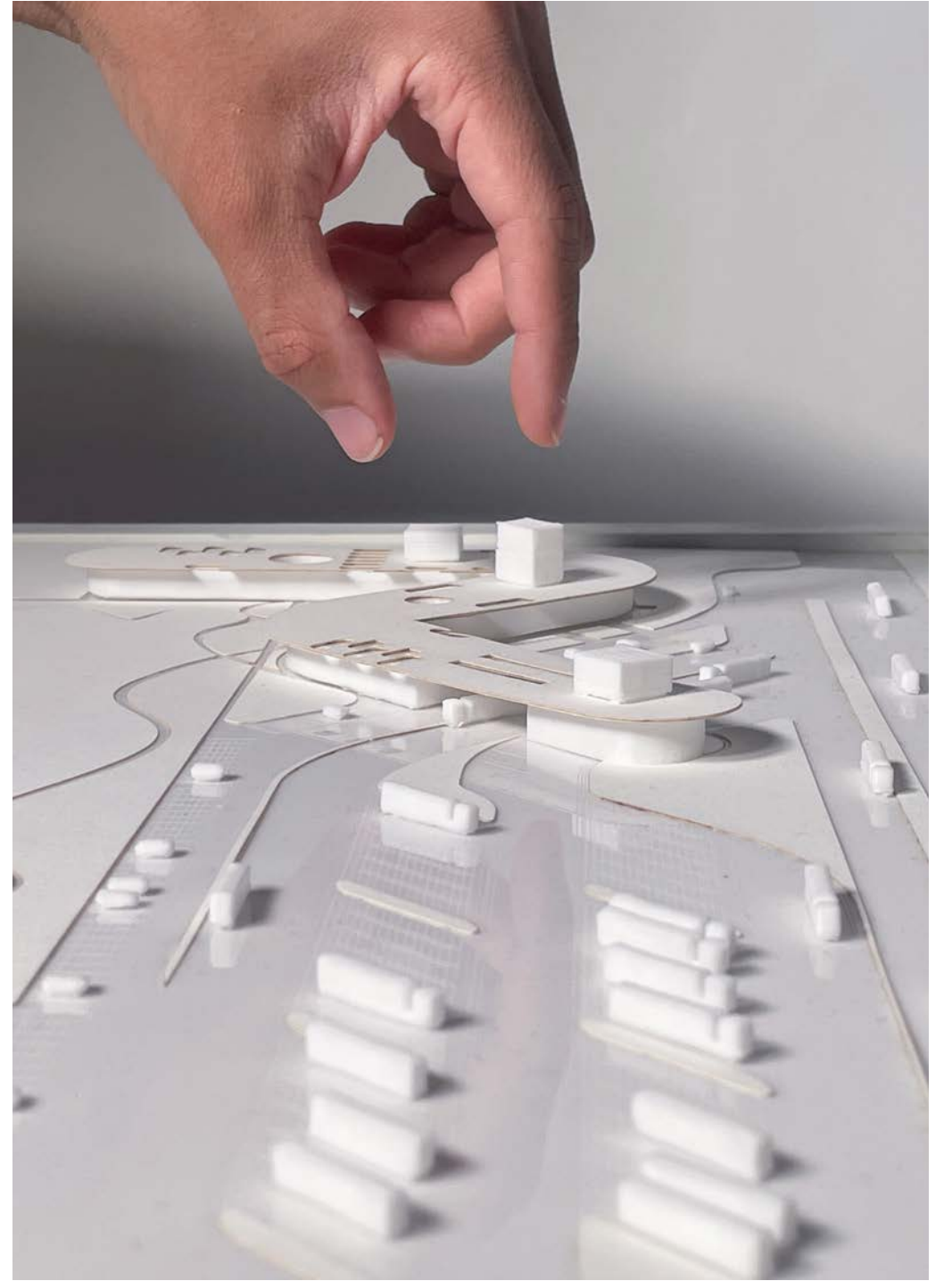
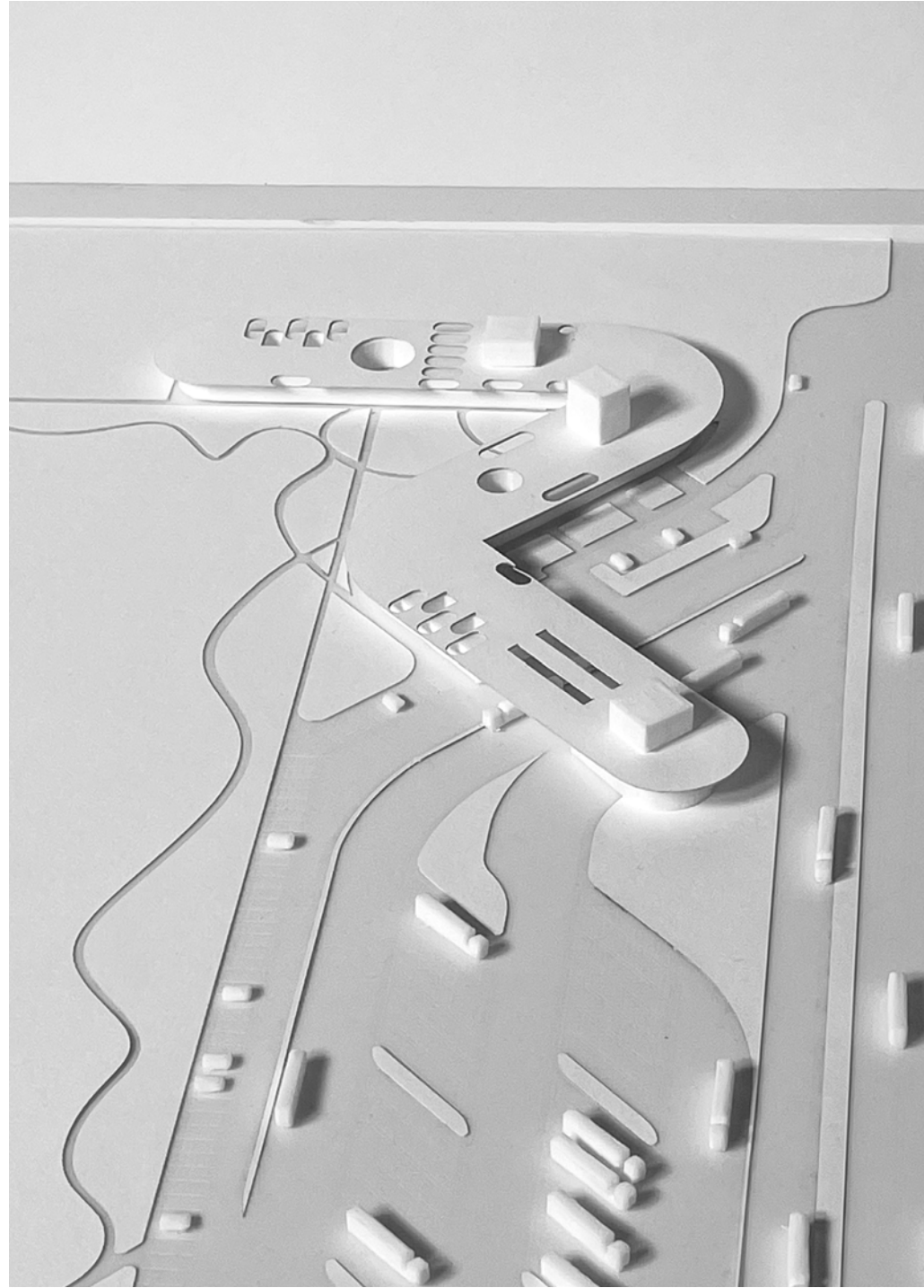


(Left) Rendering : Man jogging into the Pilot Flying J from park connection.



Site Plan : The Synthesis of Building Form and Site - designed for efficiency.

Photography : Model from above.



Photography : Model from South end of the site.



Rendering : Pilot Flying J #693 - Battle Mountain, Nevada.



Rendering : View of the intervention from Thomas Street across Church Street.

33 THOMAS

Tribeca, New York City, New York.

33 Thomas, formerly known as the AT&T Long Lines Building has a very prominent place in the history of high-rises in New York City. Along with its architectural successes of being a monolithic, iconic, and extremely functional architecture, it's equally scrutinized; The rumors that spiral around this architecture are just as impressive.

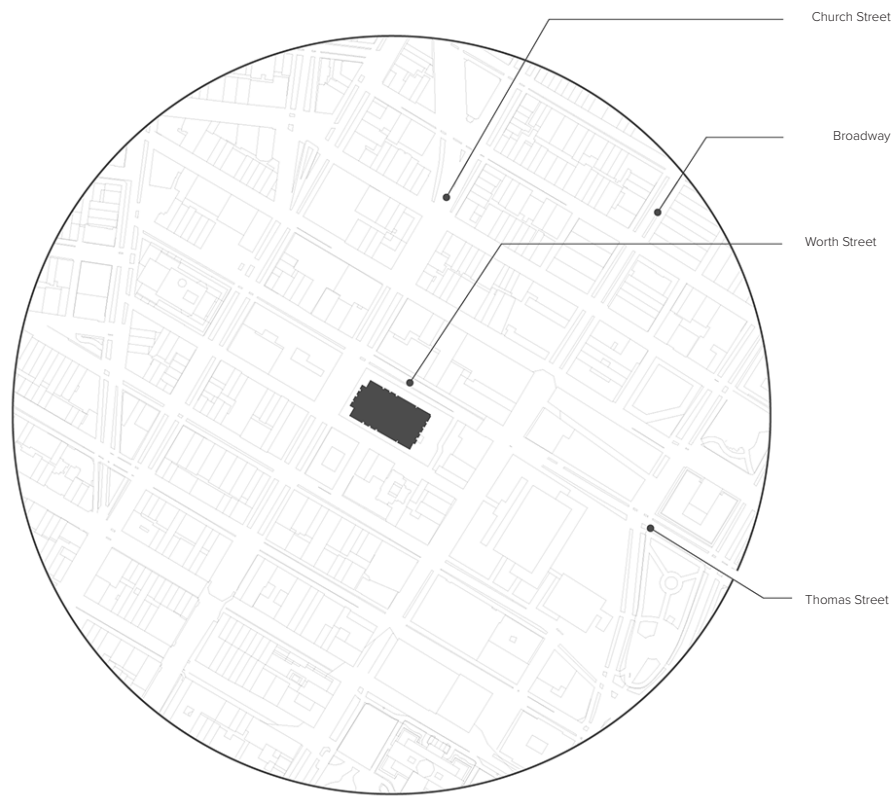
Through research about John Carl Warnecke and his drawings, we've come to learn about who funded the project, and what its intentions were. An atomic bomb proof, windowless high-rise, that's has incredibly low occupancy, and use in the twenty-first century. What can we do with it?

Our interventions looks for solutions to keeping the iconic elements of 33 Thomas there, and integrating housing and other mixed use programs into the podium and the tower.

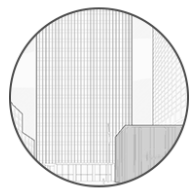
Studio Critic: Wonne Ickx
Fall 2022 - ADV 5

Partner: Min-Soo Jean

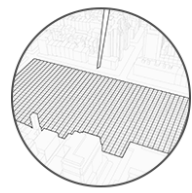
Diagram: Mapping of Tribeca



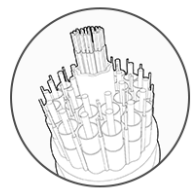
Granite Slab Height Diagram



Steel Volume Diagram



Precast Concrete Panel Diagram



Telephone Cable Diagram



Terracotta Mass Diagram



CMU Volume Diagram

Diagram : Material indexing

Rendering : The Atrium condition created via the cut.



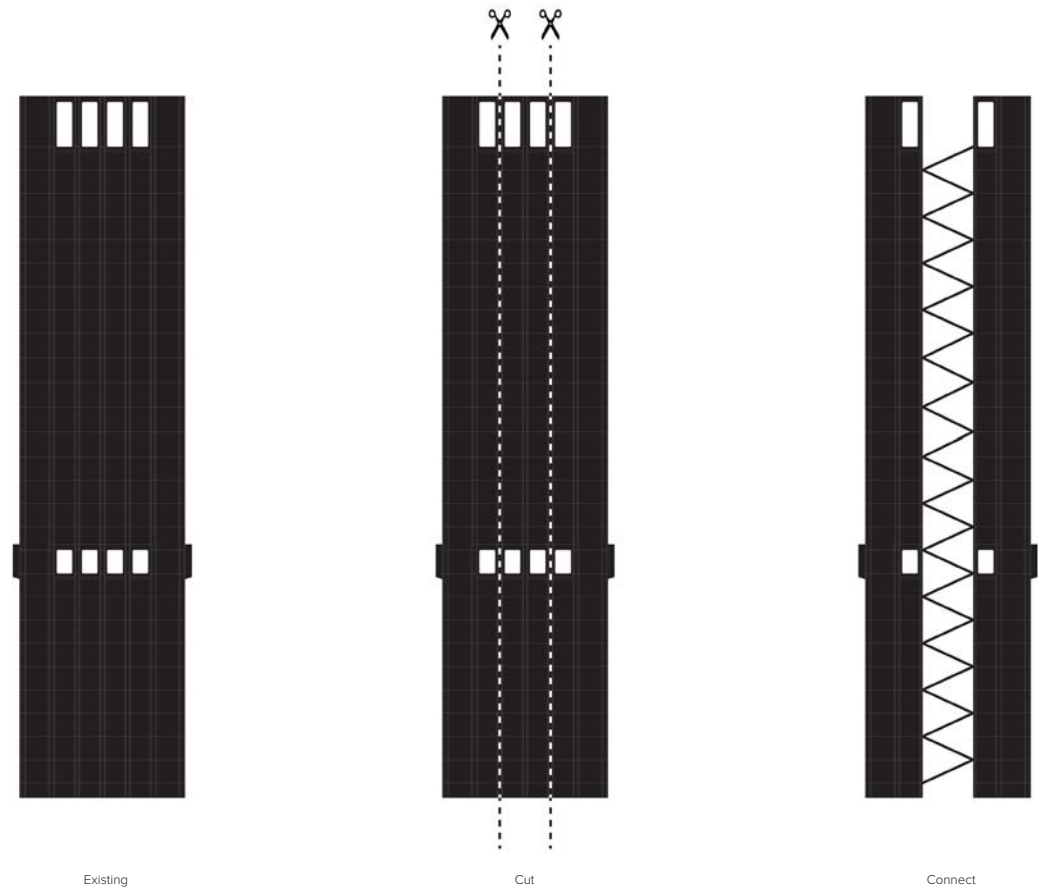
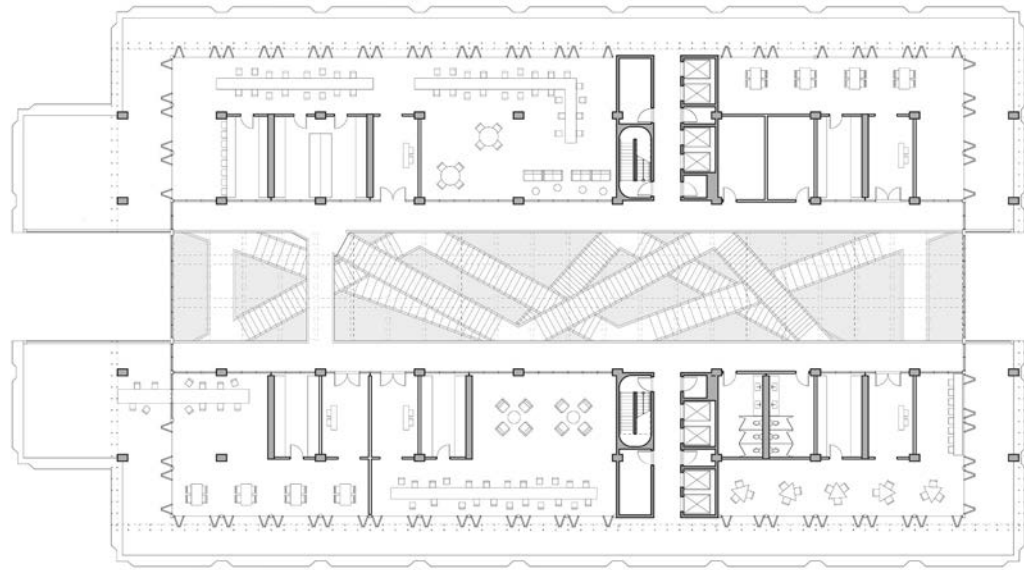
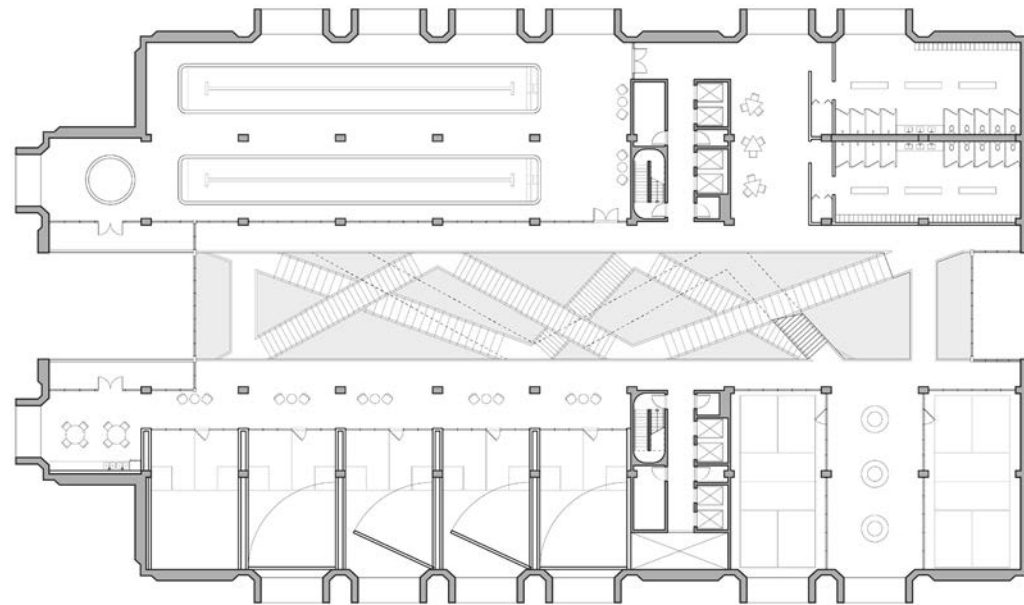


Diagram: Simple form explanation

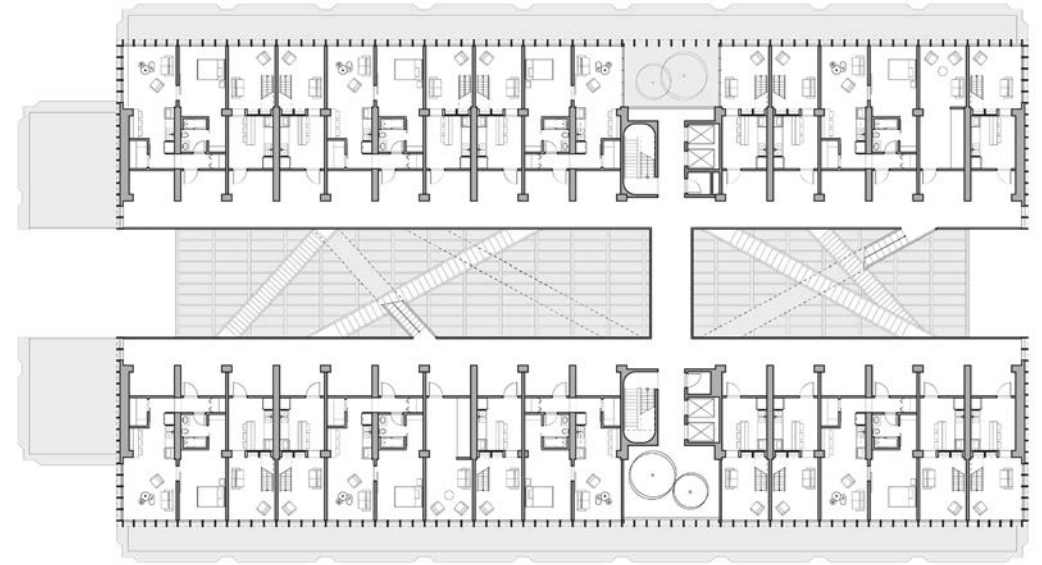
Floor Plan : Top level of the podium before it transitions to residential.



Floor Plan : Vent level of the Podium.



Rendering : Showing the connectivity between "neighborhoods"



Floor plan : Residential level

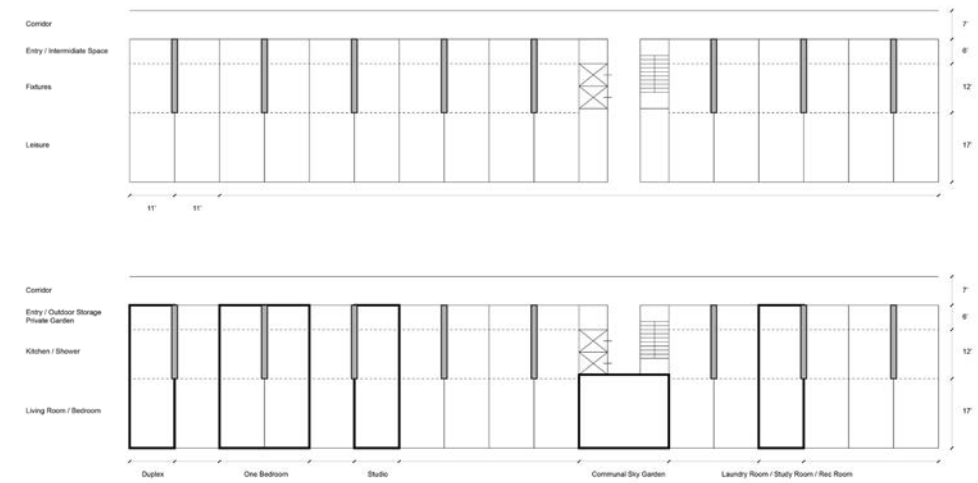
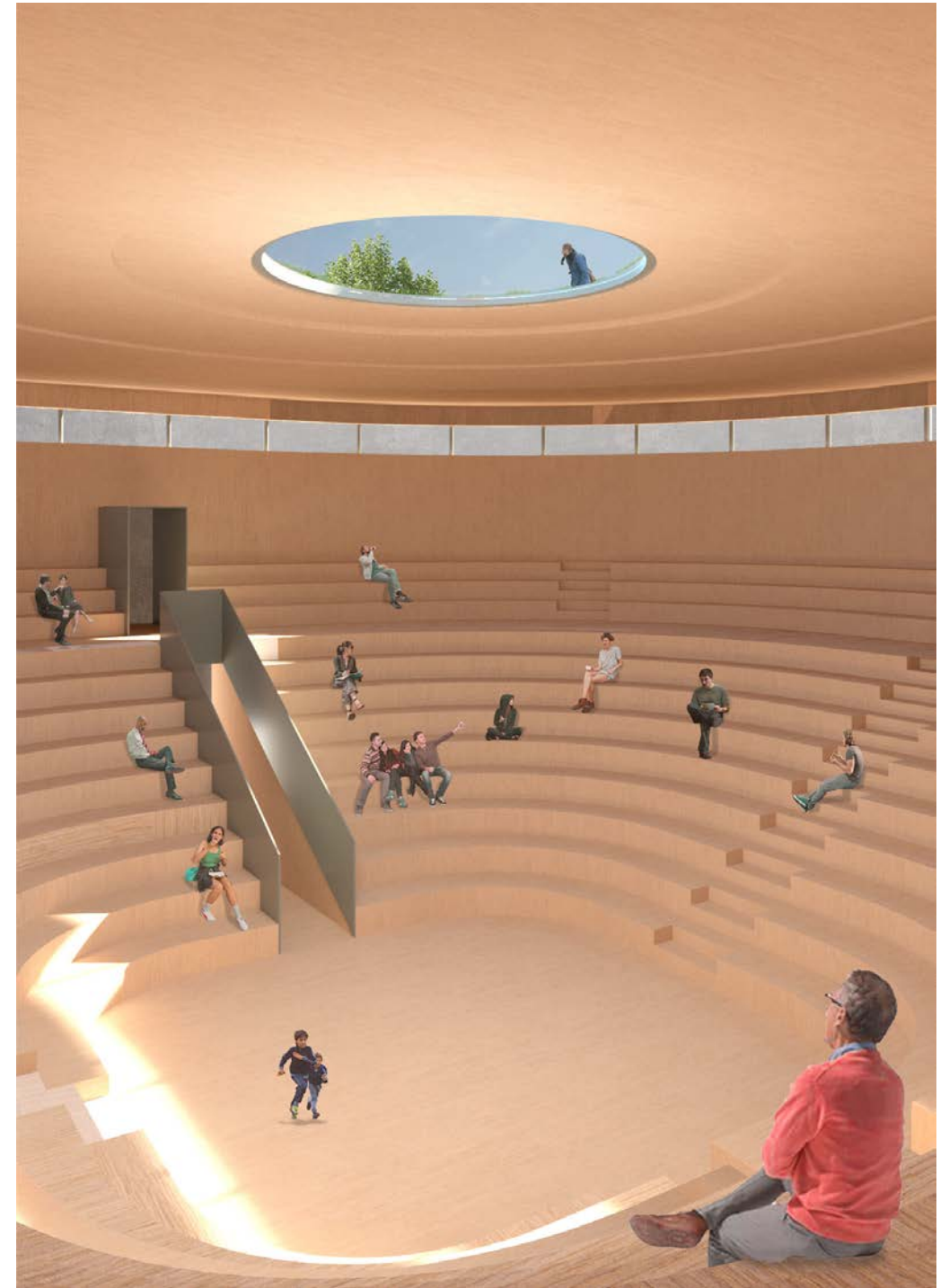


Diagram : The program distribution on the residential level.

Rendering : The shared neighborhood park.



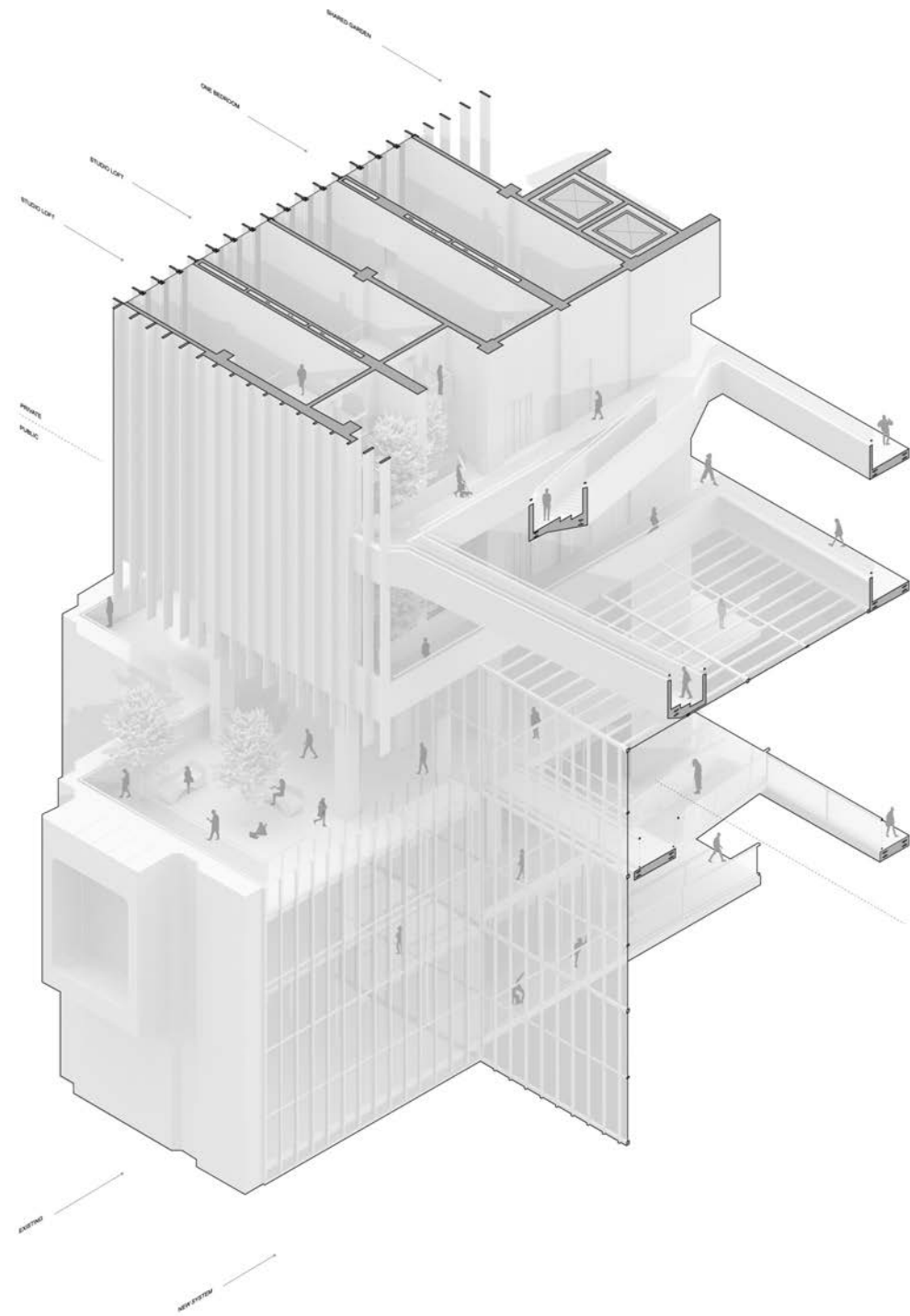
Rendering : Theatre condition in the basement of the podium.

Photography: Model on the Broadway side



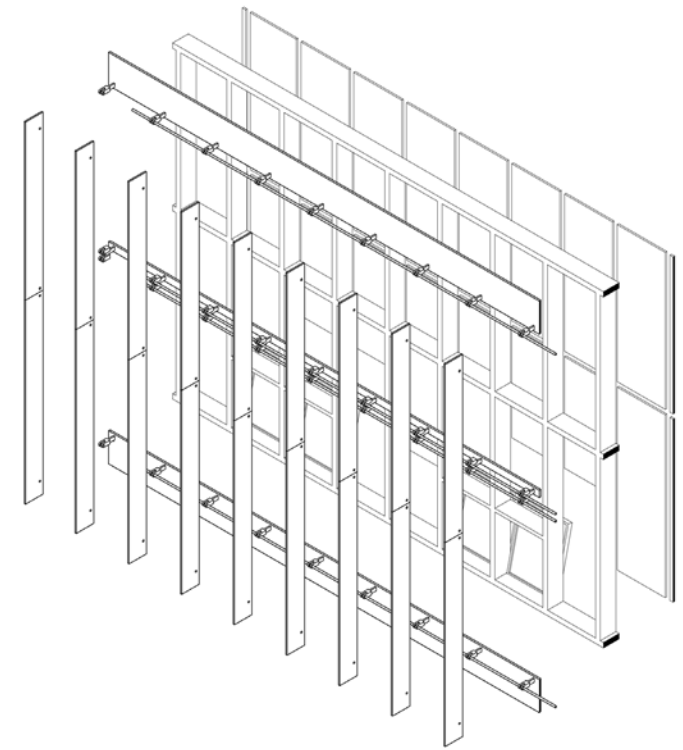
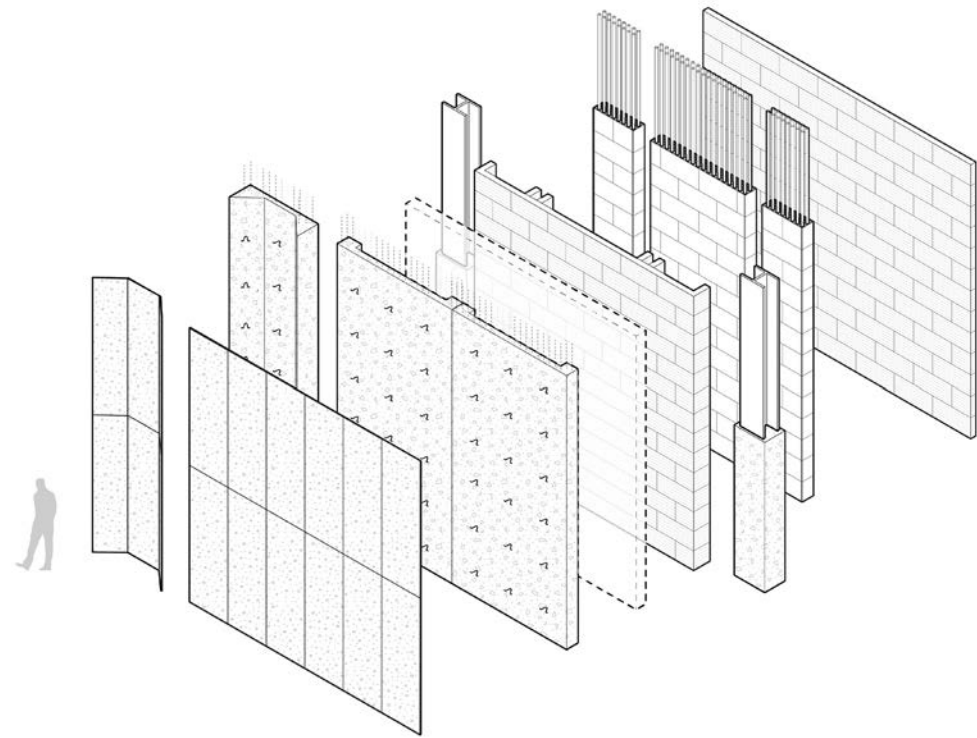
Photography: Model from the Church x Worth side.

Chunk Axon : Showing the transition from the lower podium to the upper Residential levels.



Rendering : Kids playing by the pool on the vent level of the podium.





Rendering : Inside a residence at 33 Thomas.





Rendering : Stacking the prefabricated modules into position.

MODULAR LIVING

Bronx, New York City, New York.

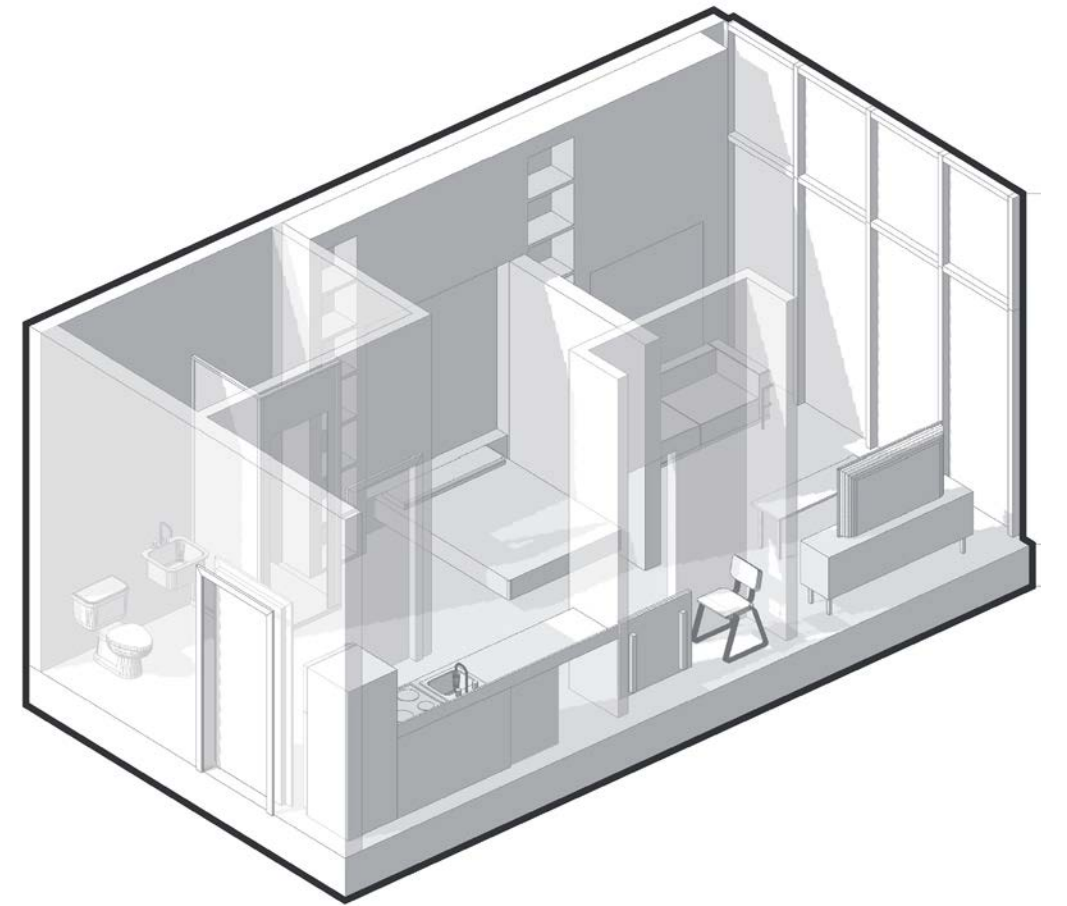
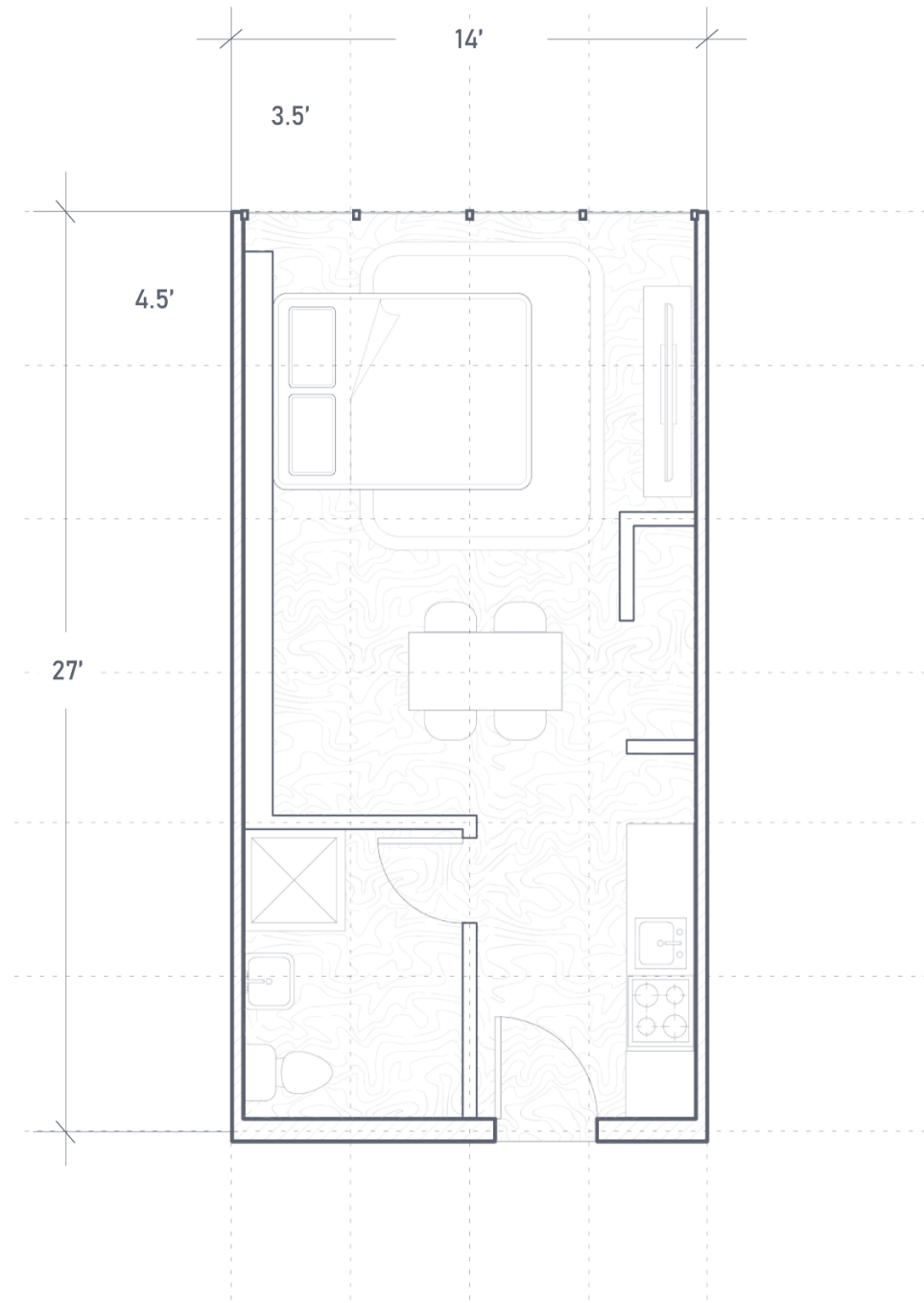
Mod:Liv is a project that looked to redefine how project delivery methods and partnerships in the process could enable modular homes to have more meaning and deliver better housing at a lower cost.

Utilizing a joint venture with Project Manager, and Manufacturing we were able to lower project vacancy and hard costs of assembly. Designing a modular project meant that we could do a lot of the construction offsite. The modules were designed so they would fit nicely on a twin twenty-seven foot trailer, bringing two modules to the site at a time. With the Project Manager and our design features, we aimed to enable flexibility in the modules and how they could be staged. This meant that the modules were able to flex into more or less bedrooms per need of the user, therefore they would never leave the development because of availability. They would only move down the hall or next door.

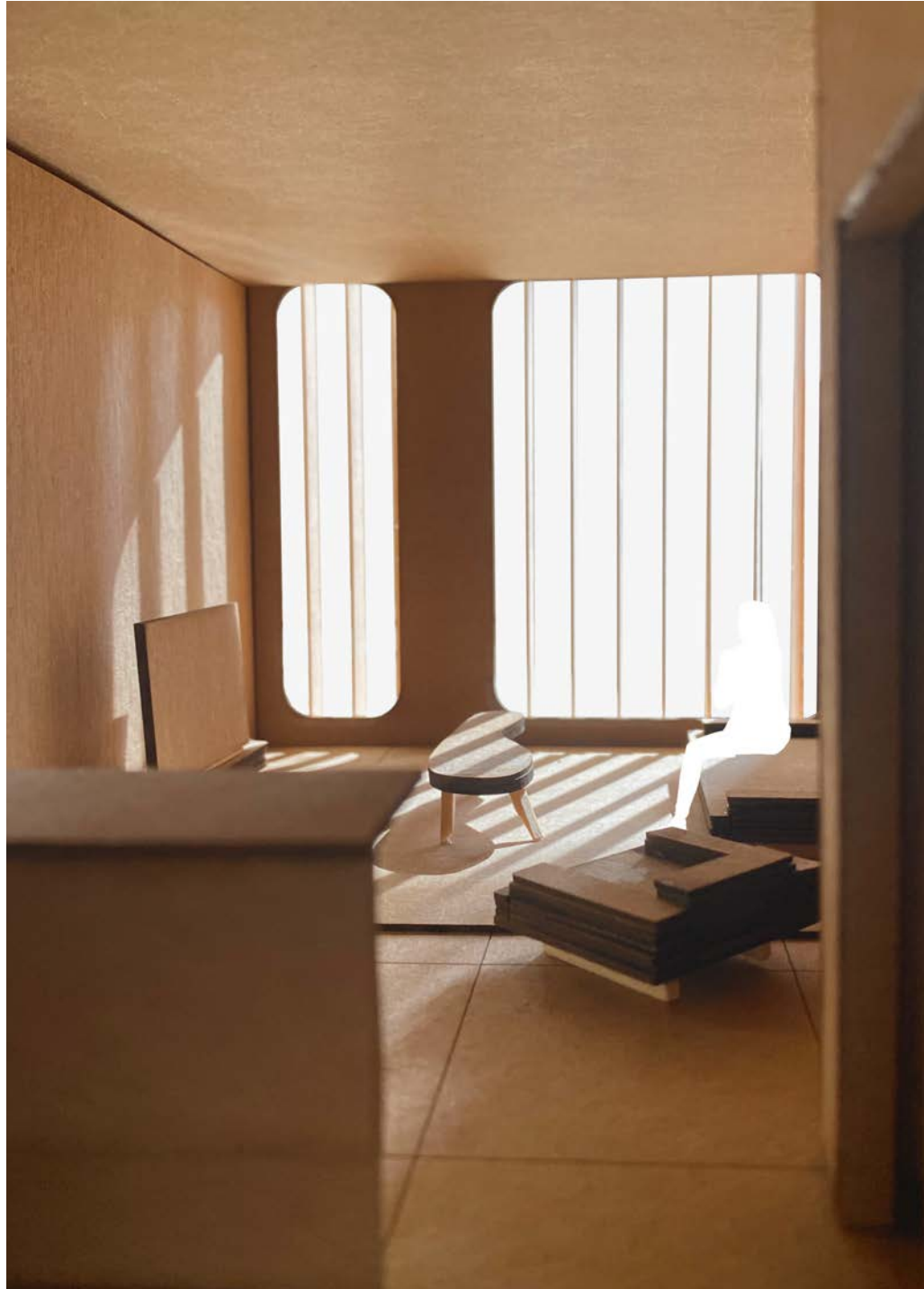
Balancing modularity and repetitiveness with operation pieces and site specific architecture really begins to give Modular Housing a new meaning and added afford-ability. This is Mod Liv.

Studio Critic: Michael Caton
Fall 2021 - Core 3

Partner: Samuel Bager



Model Photography : View from inside of the living space of the module.



Model Photography : How two prefabricated modules of a one bedroom configuration begins to aggregate.



(Left) Rendering : View from top level terrace into the public park.

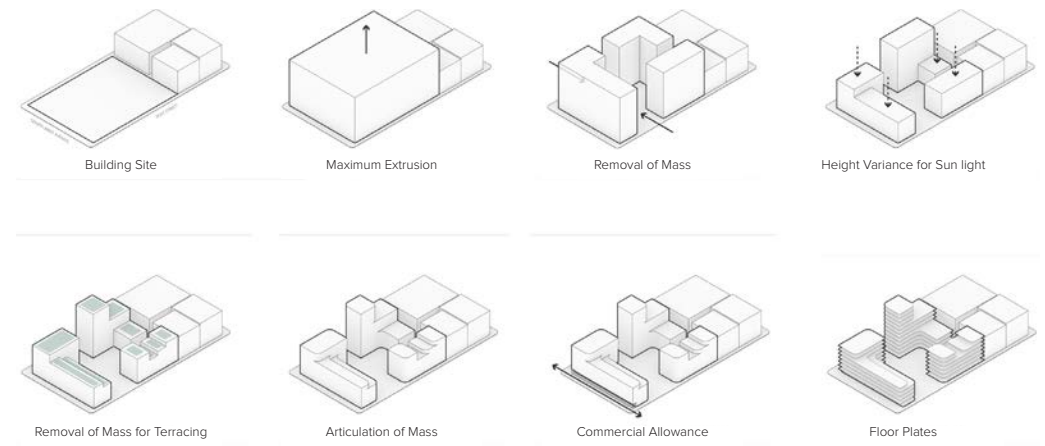
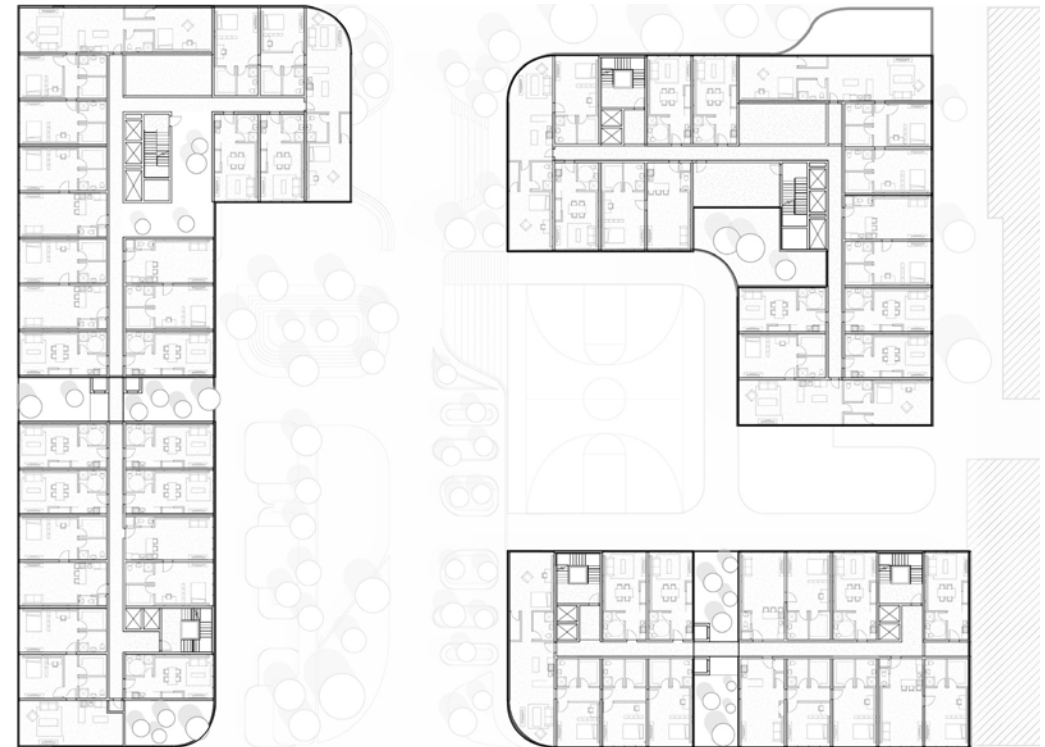


Diagram : Addressing site needs versus maximum capacity of the site for our modules.

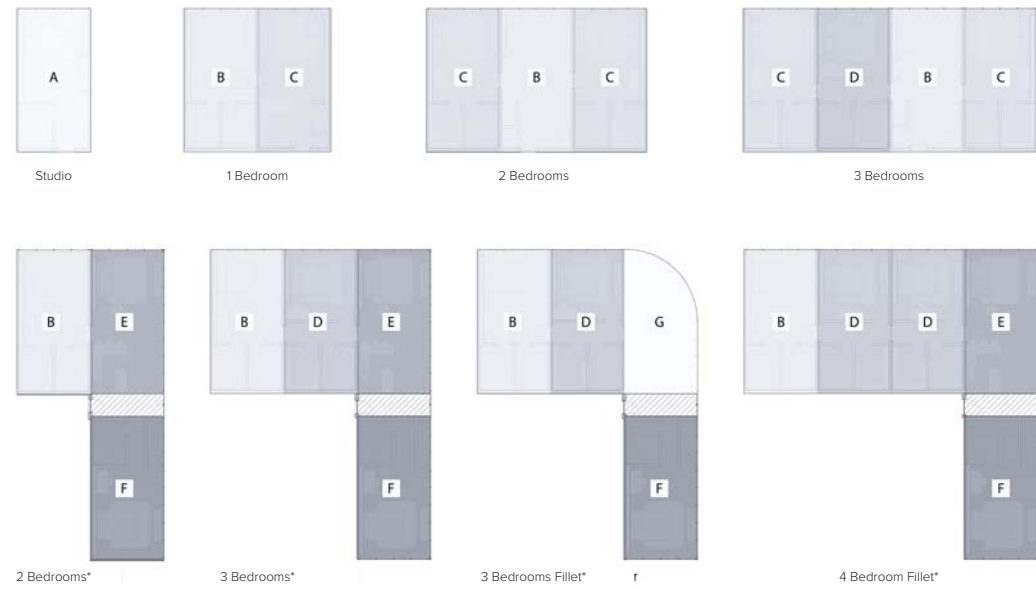


Floor Plan: Typical upper level floor plan showing the different units.

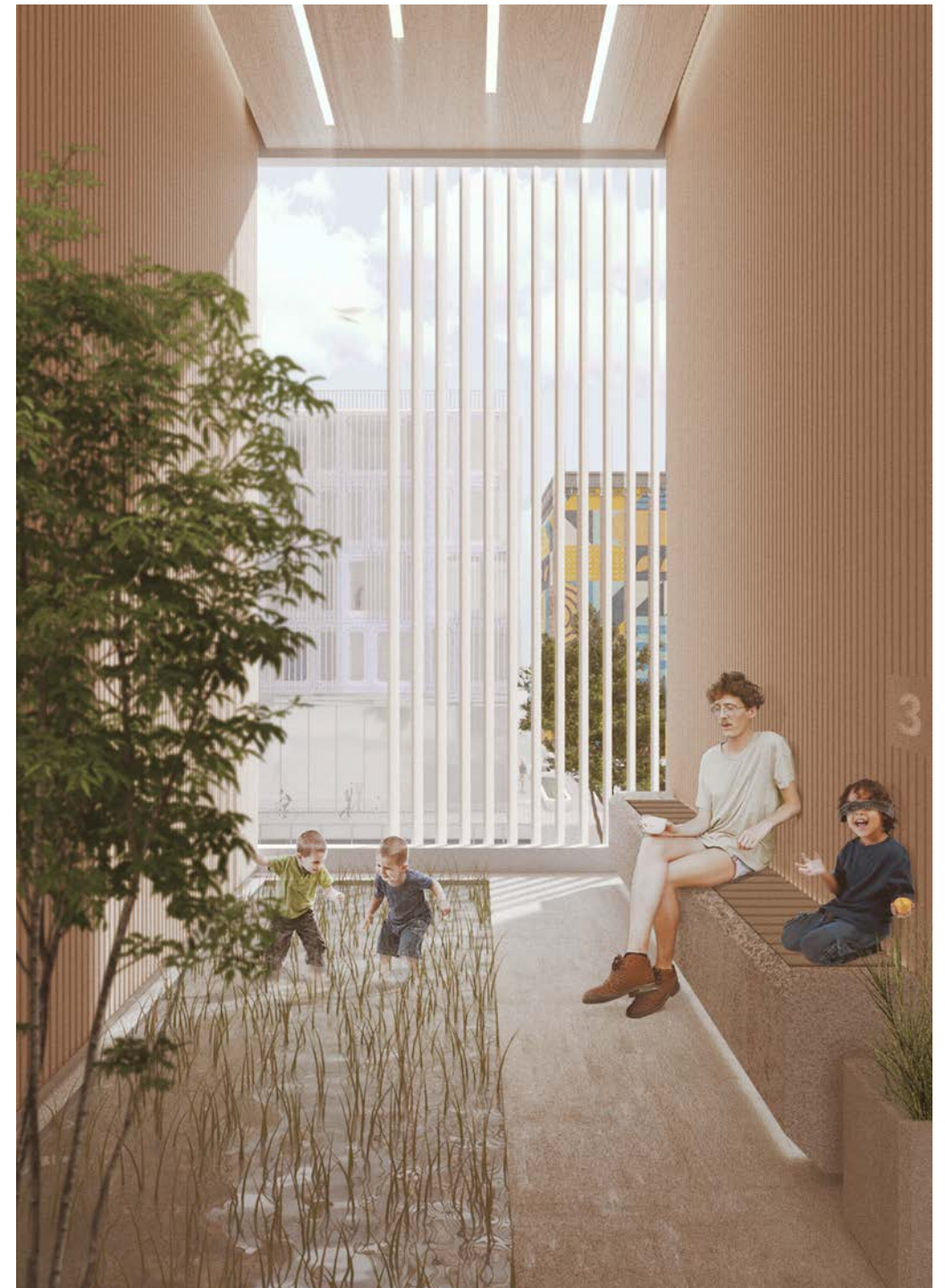
Floor Plans : How the unit aggregates to create different unit types.



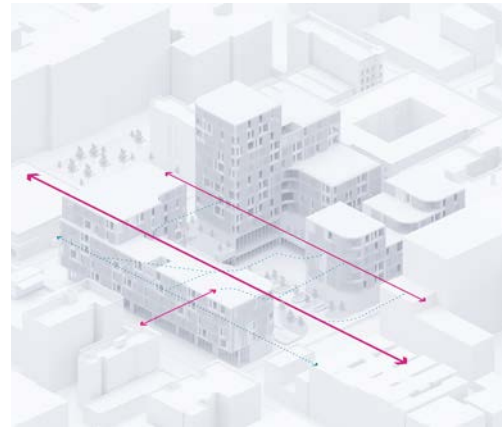
Diagram : Different unit types within the same overall module dimensions.



* Signifies that these are bookend units that cap off the end of the building or the double loaded corridor



Rendering : The shared outdoor spaced created when removing a singular module.



Pedestrian Circulation



Vertical Circulation



Primary Street Axis



Green Cores



Building Through Points



Green space

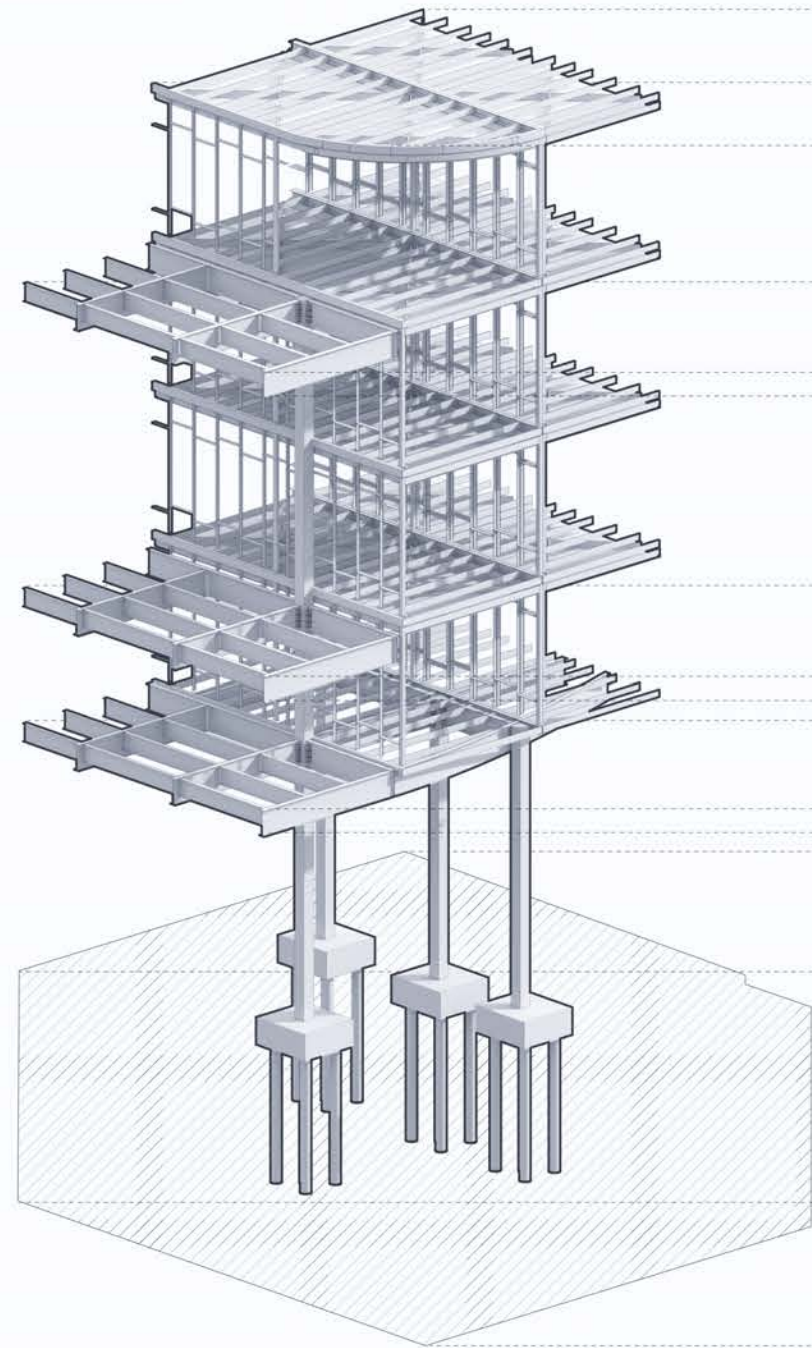
Axon Diagrams : Form articulation diagrams.



Model Photography : Masses on site.

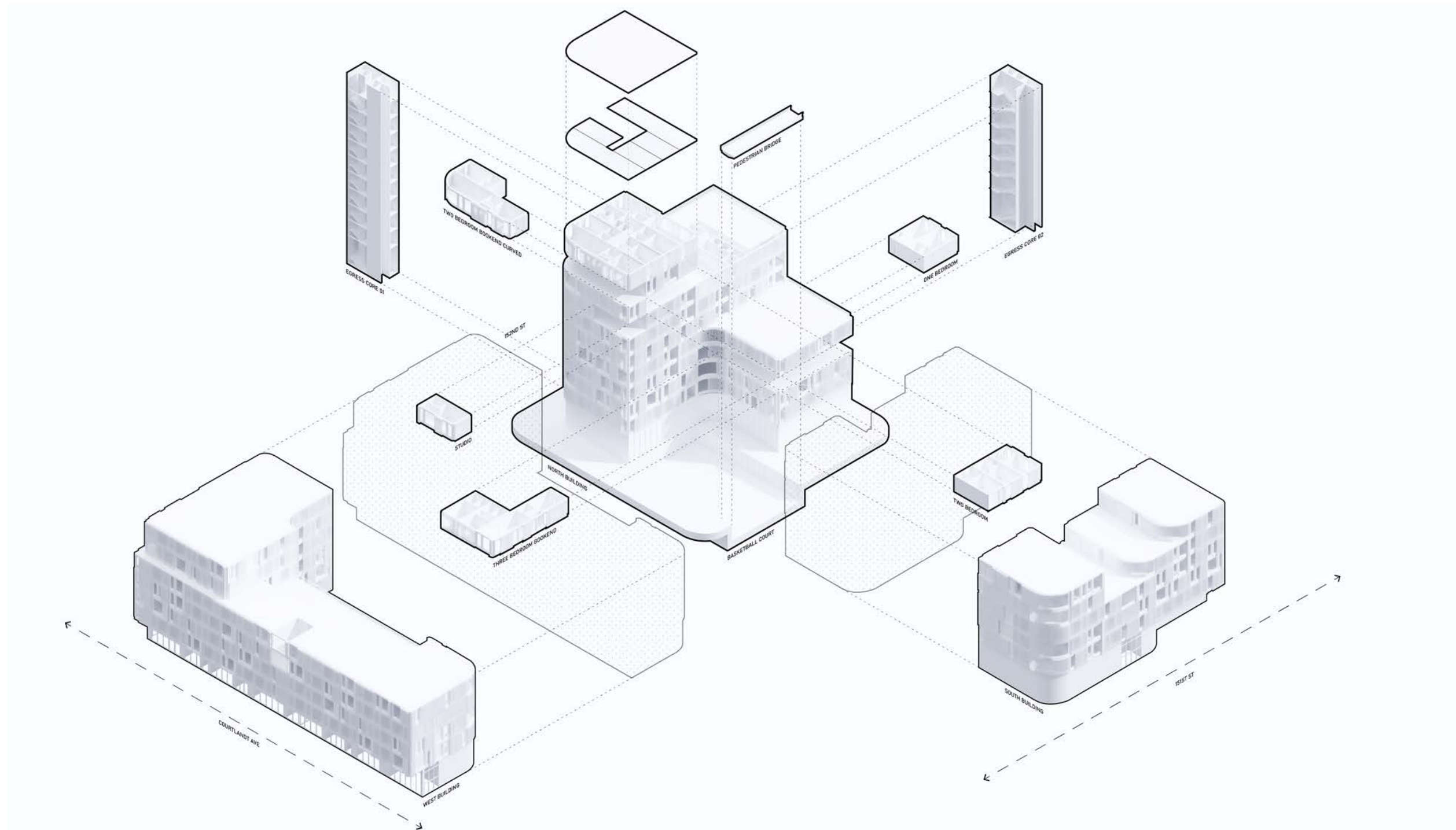


Rendering : A living space of a one bedroom module facing inward to the courtyard.

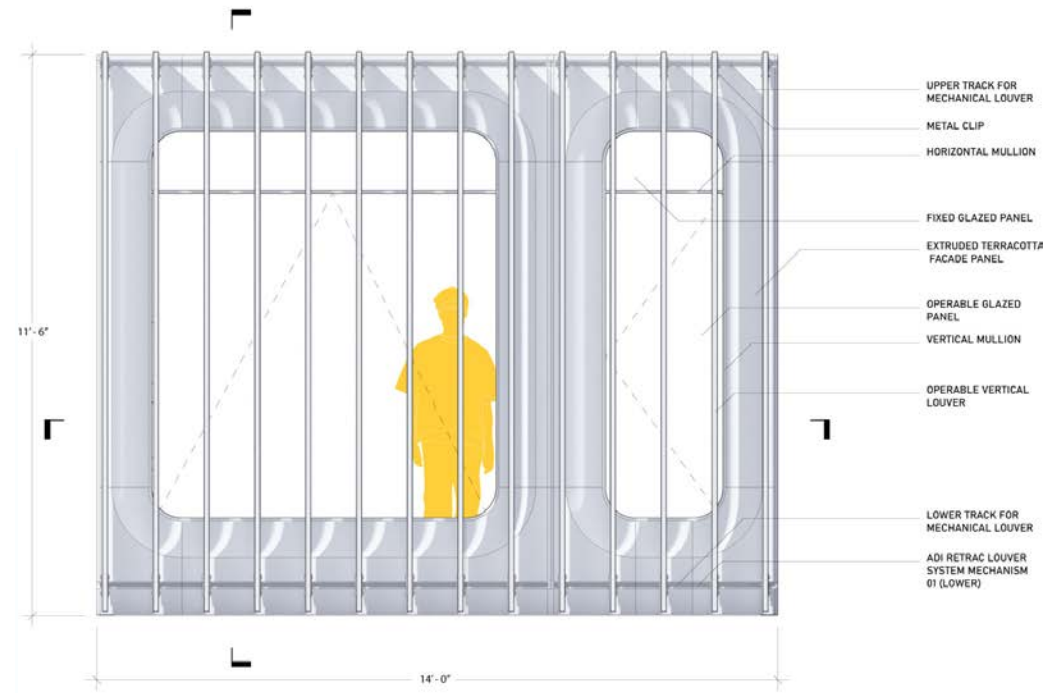


Chunk Axon : Two part drawing showing the repetitive structure featured in the prefabricated modules versus the site specific architecture below.

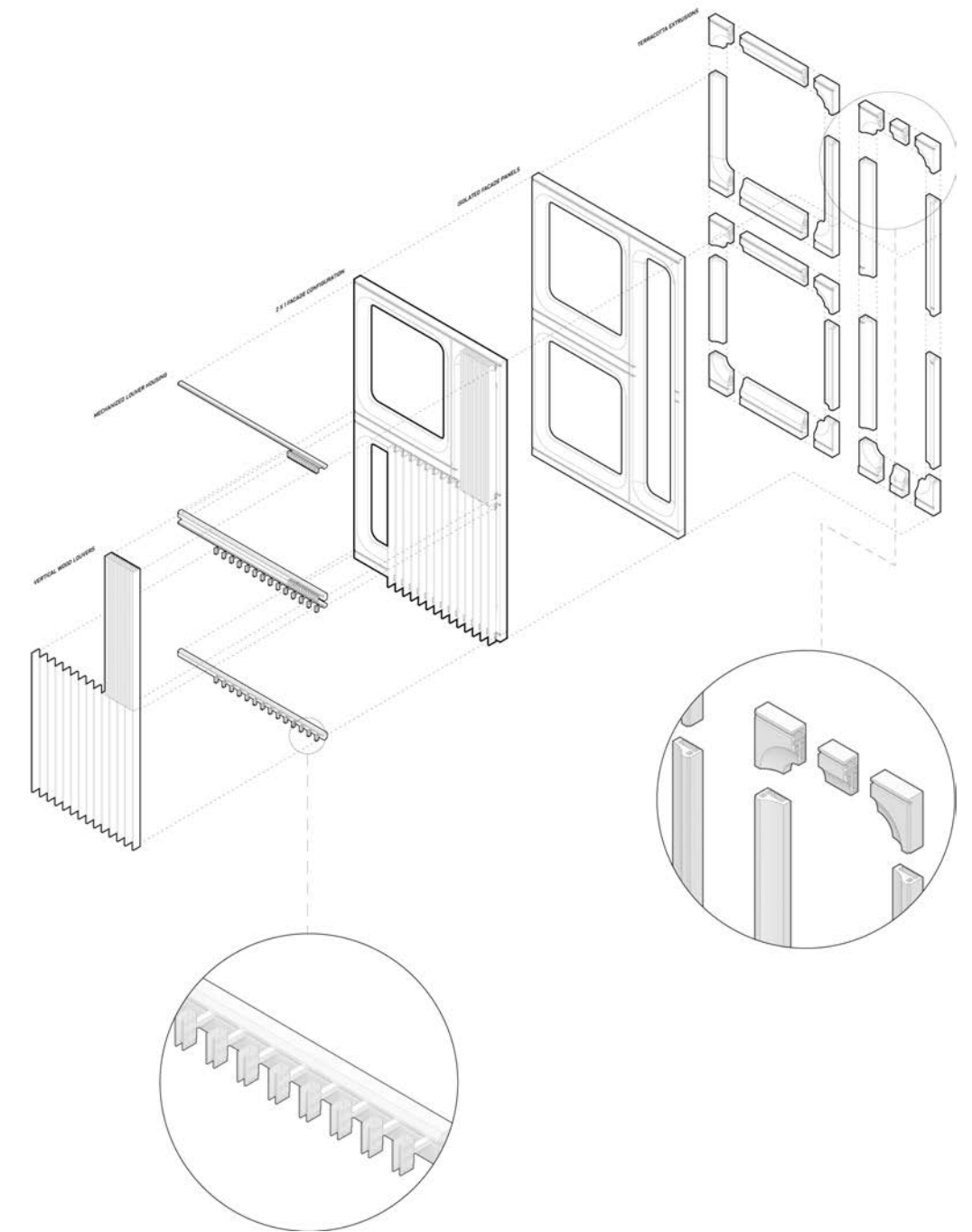
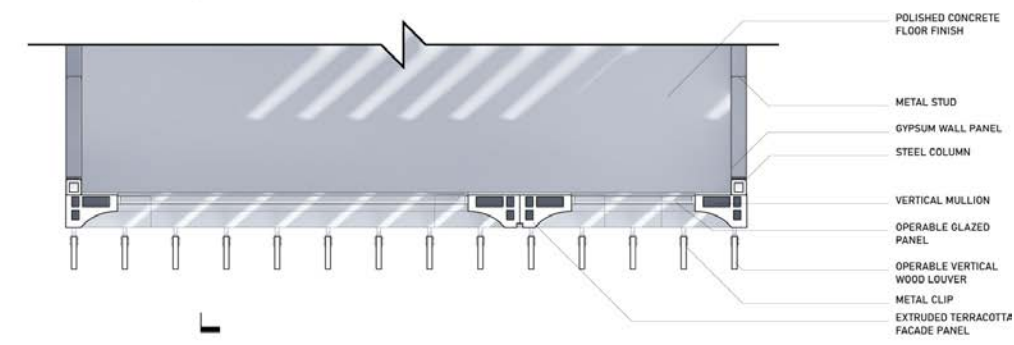
Building Scale Exploded Axon : Showing the major components of the three separate masses and how they relate to each other on the site.



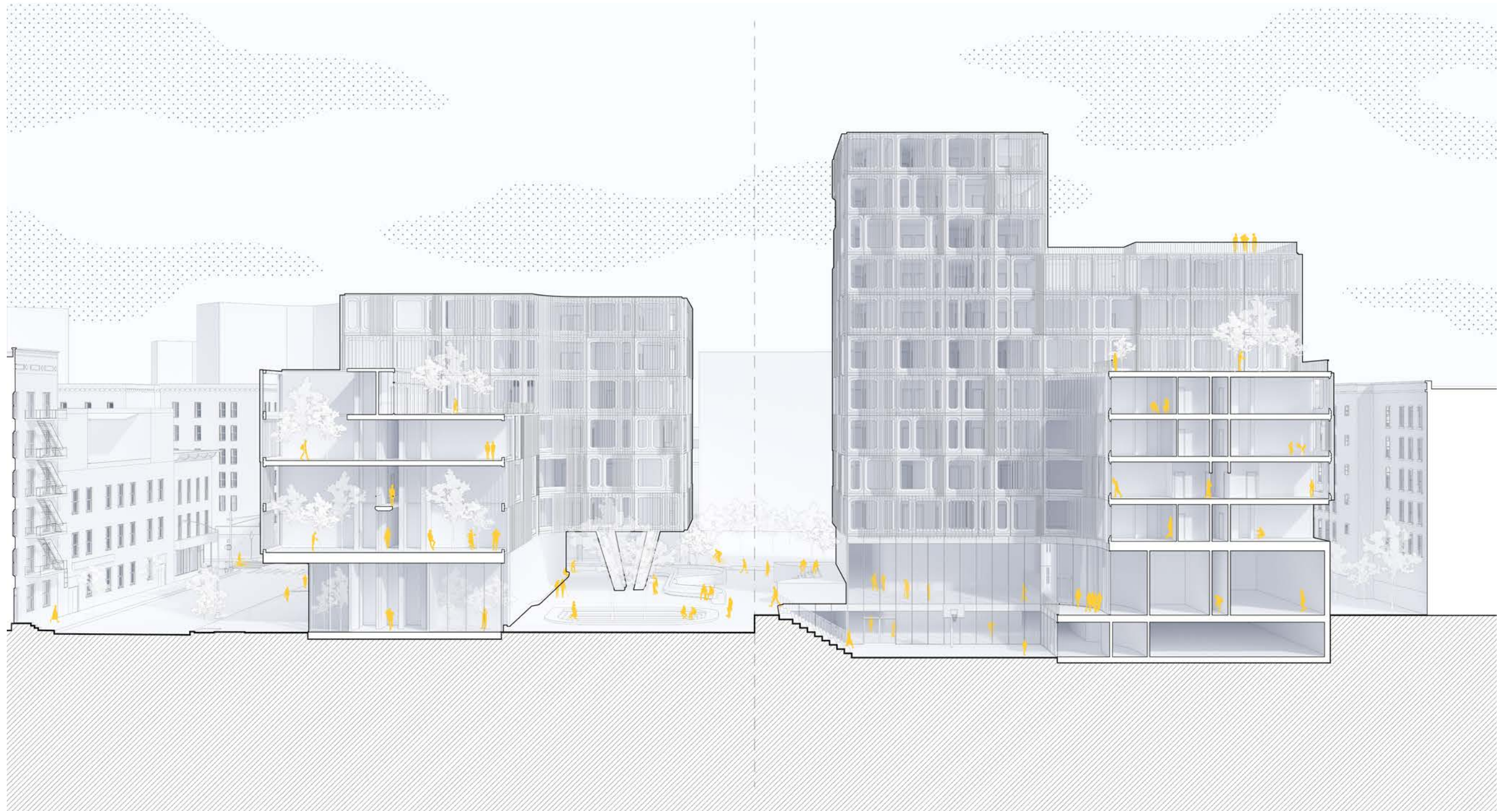
Facade Road-map : Elevation



Facade Road-map : Plan



Exploded Axon : Facade Components



Longitudinal Section



Longitudinal Section

Rendering : Path through the tie at night.





Rendering : The approach to the Tower monument.

MONUMENTS TO NATURE

Annandale-on-Hudson, New York.

Being placed in a site removed for the urban condition left us in a position to generate a philosophy about nature and context, and what it means to design a center focused about it. Monuments To Nature aims to distill the elements, and their sensory experiences.

There are three monuments, the tower which focuses on air, utilizing vision. Here you can bird watch in the environment of the bird, at the tree canopy level. The second monument is the land element. Here you have your surroundings blocked off so you're focused only on what is inside, and what you're allowed to see outside. It's designed around an ancient rock, which you can only see, not touch from above. There are opportunities to look out, but you can only see the ground in front of your feet, forcing you to experience the dynamism of the simple things in front of you. The third and final monument is the water monument. Here the water flows onto it and you can interact with the water of the Hudson River upstream. There is also a water wall in which it flows over and cascades down into the lower level.

The monuments are permanent and meant to last forever and eventually be overgrown by nature, whilst the only "architecture" on the site is made from Timber and Polycarbonate. These materials are more temporary and will eventually wear away leaving a slab. The symbolic geometries of the concrete left over will encapsulate the signification of the monuments and their relationships to one another.

Studio Critic: Robert Marino
Spring 2022 - ADV 4

Partner: Samuel Bager

Mapping : Northeast regional map highlighting the site.

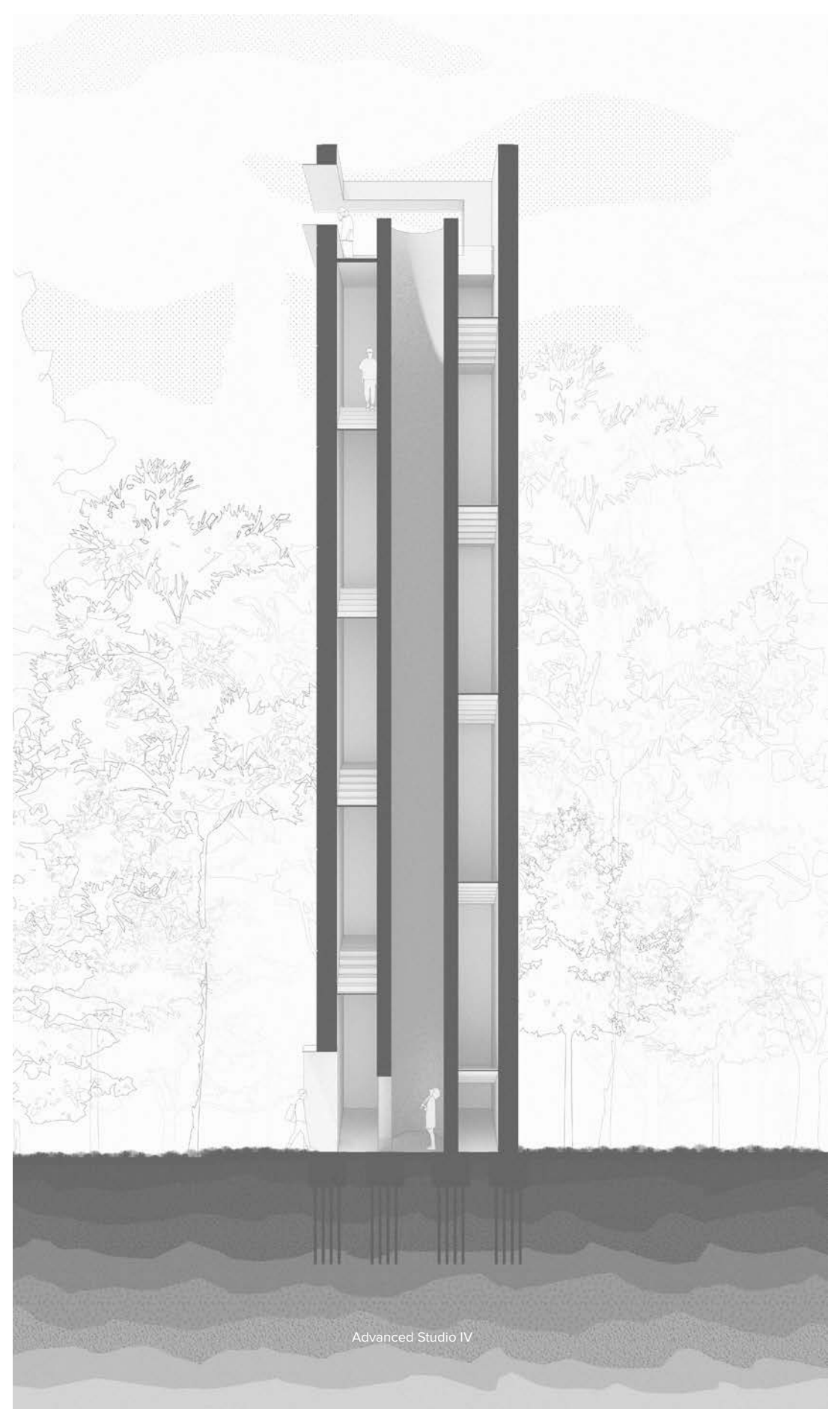


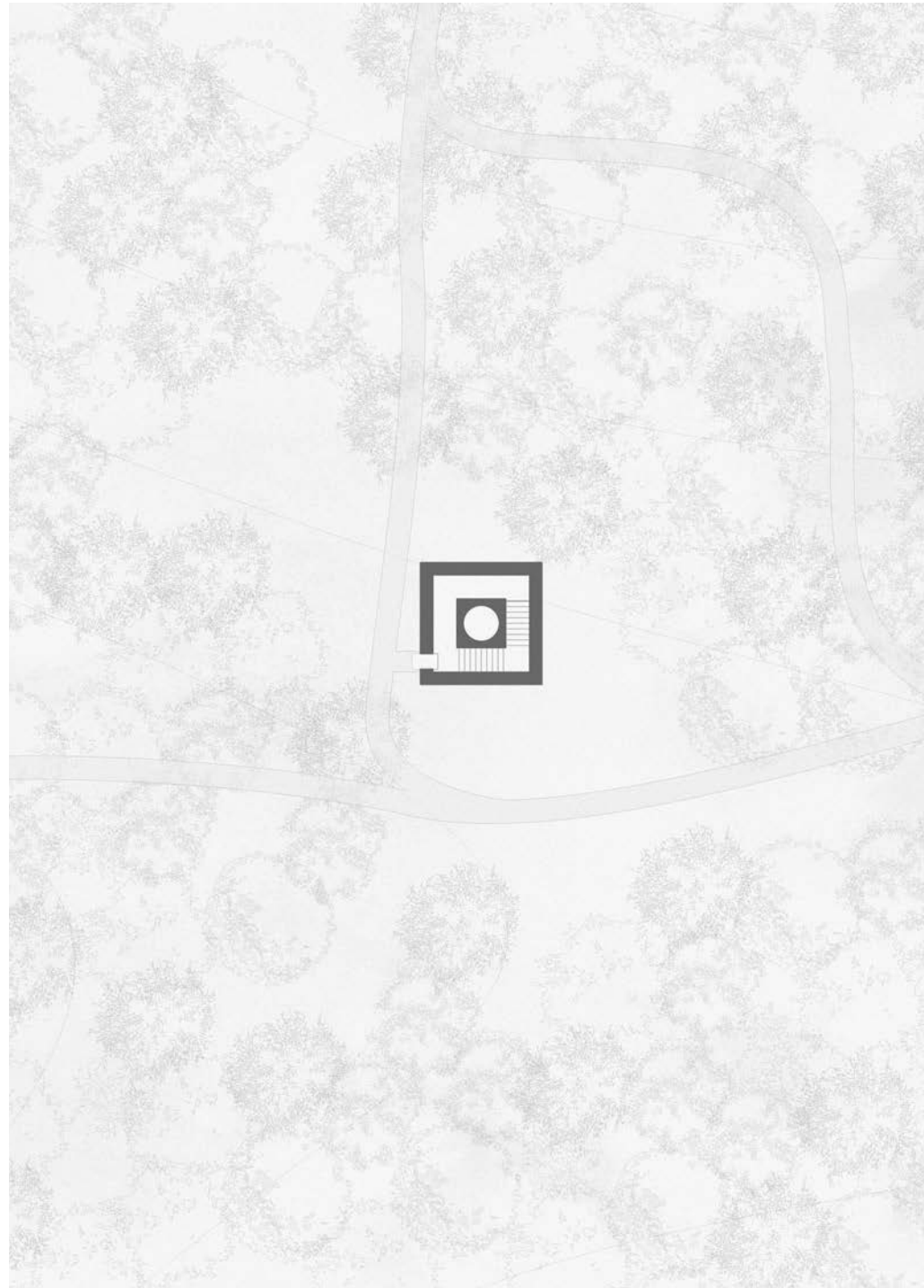
Mapping: Annandale-on Hudson in focus of our site.

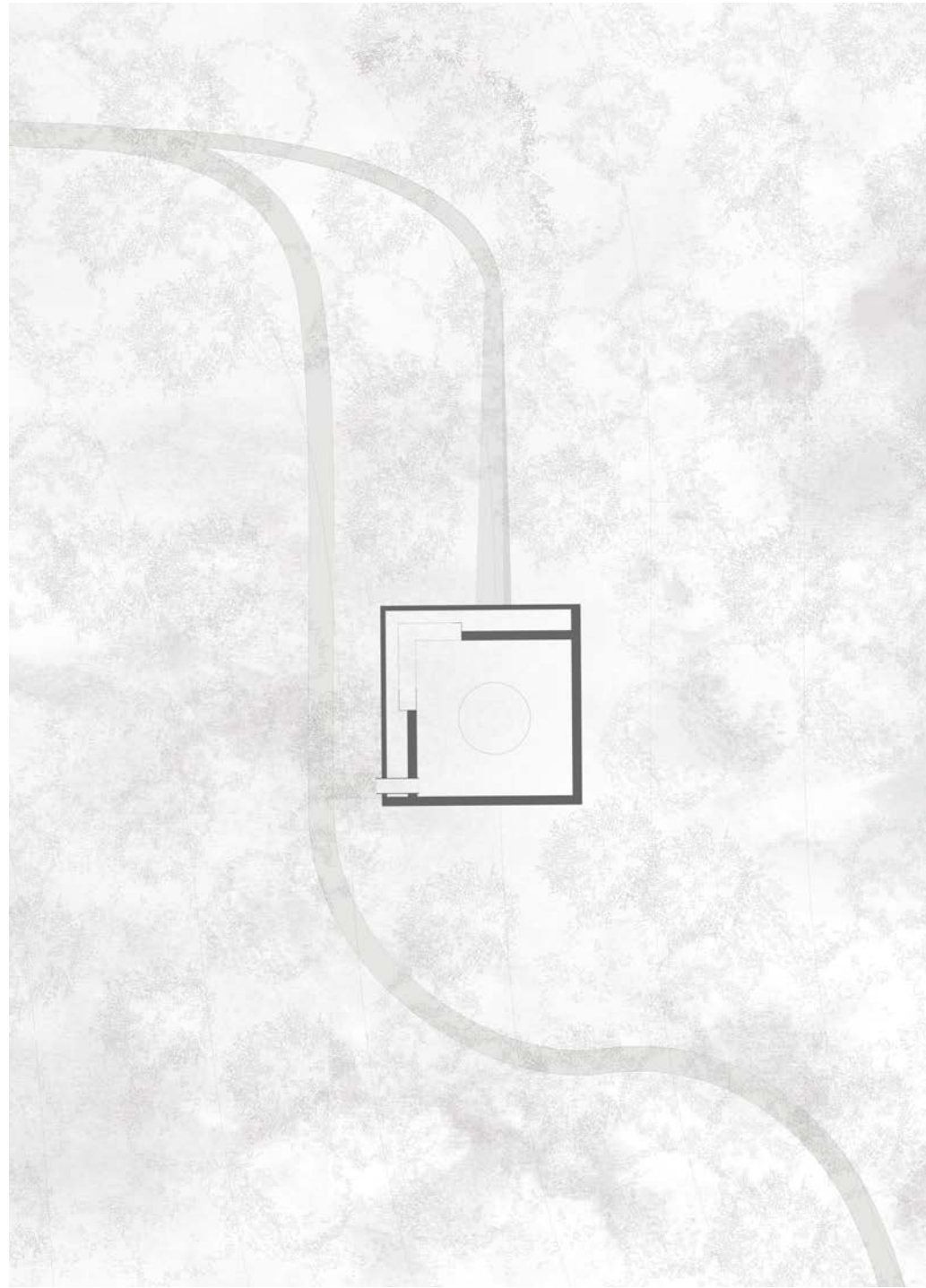
Mapping : Where the four structures fall on the site.



Section : Air Monument



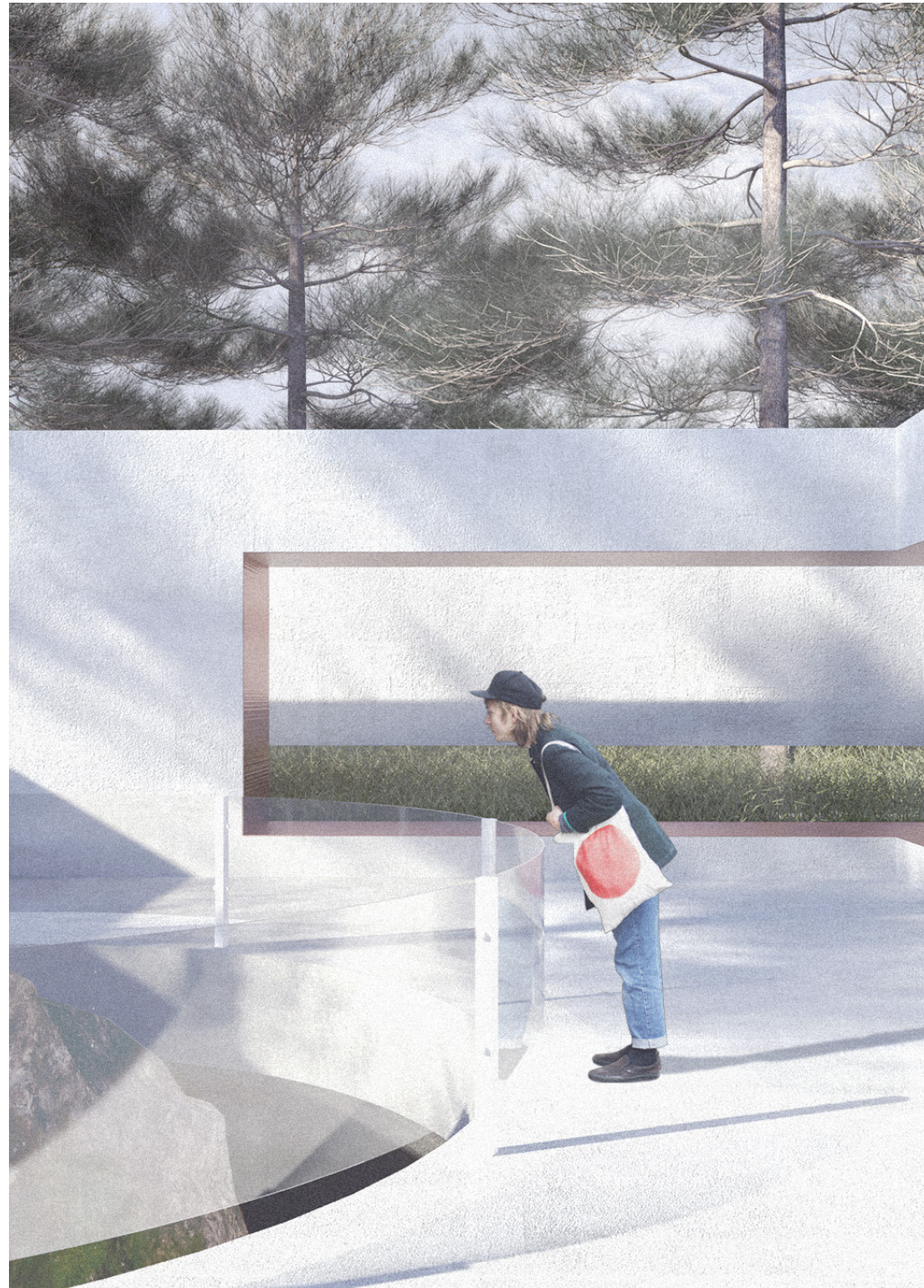




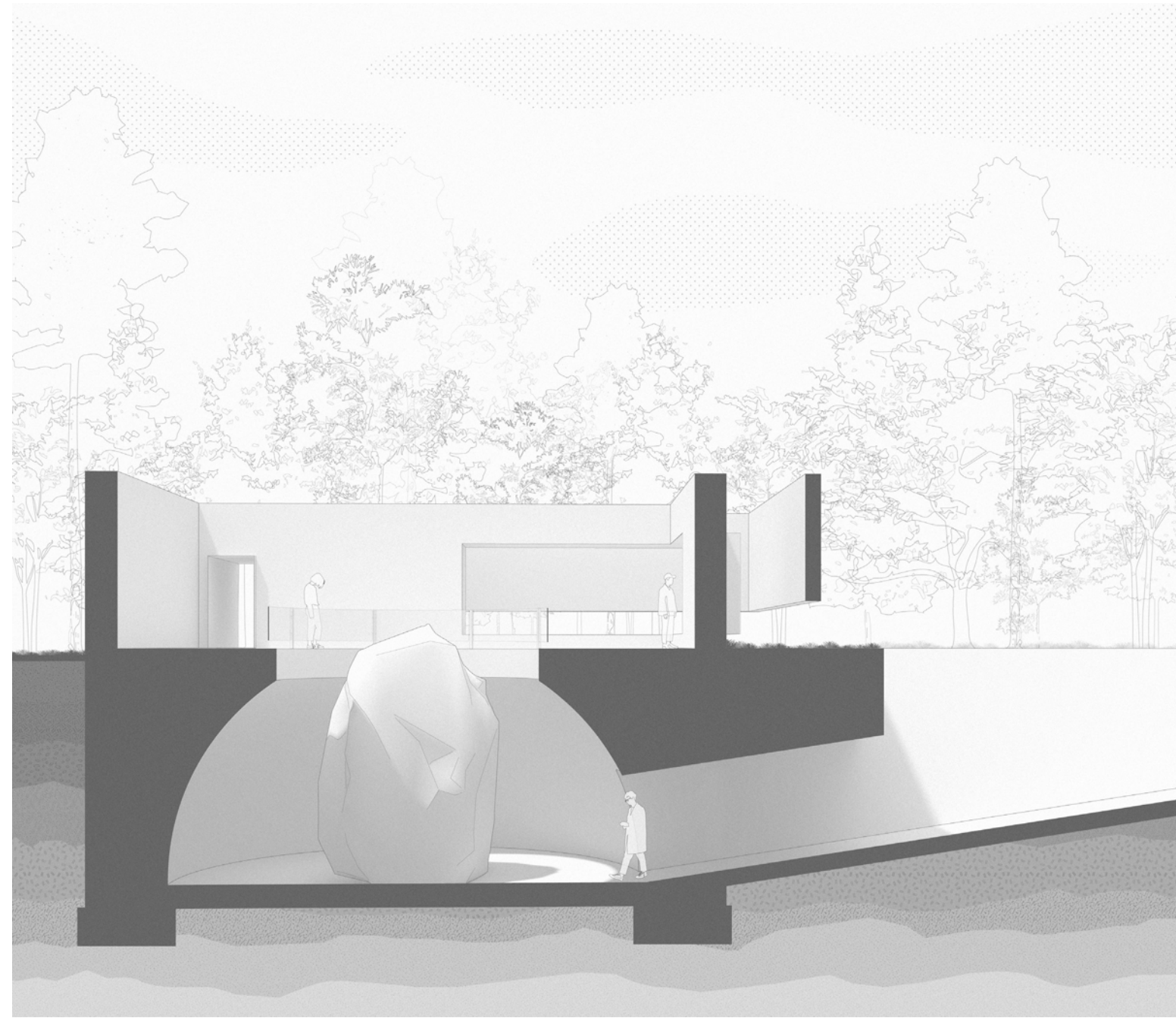
Rendering : Viewing the Land Monument from the outside.

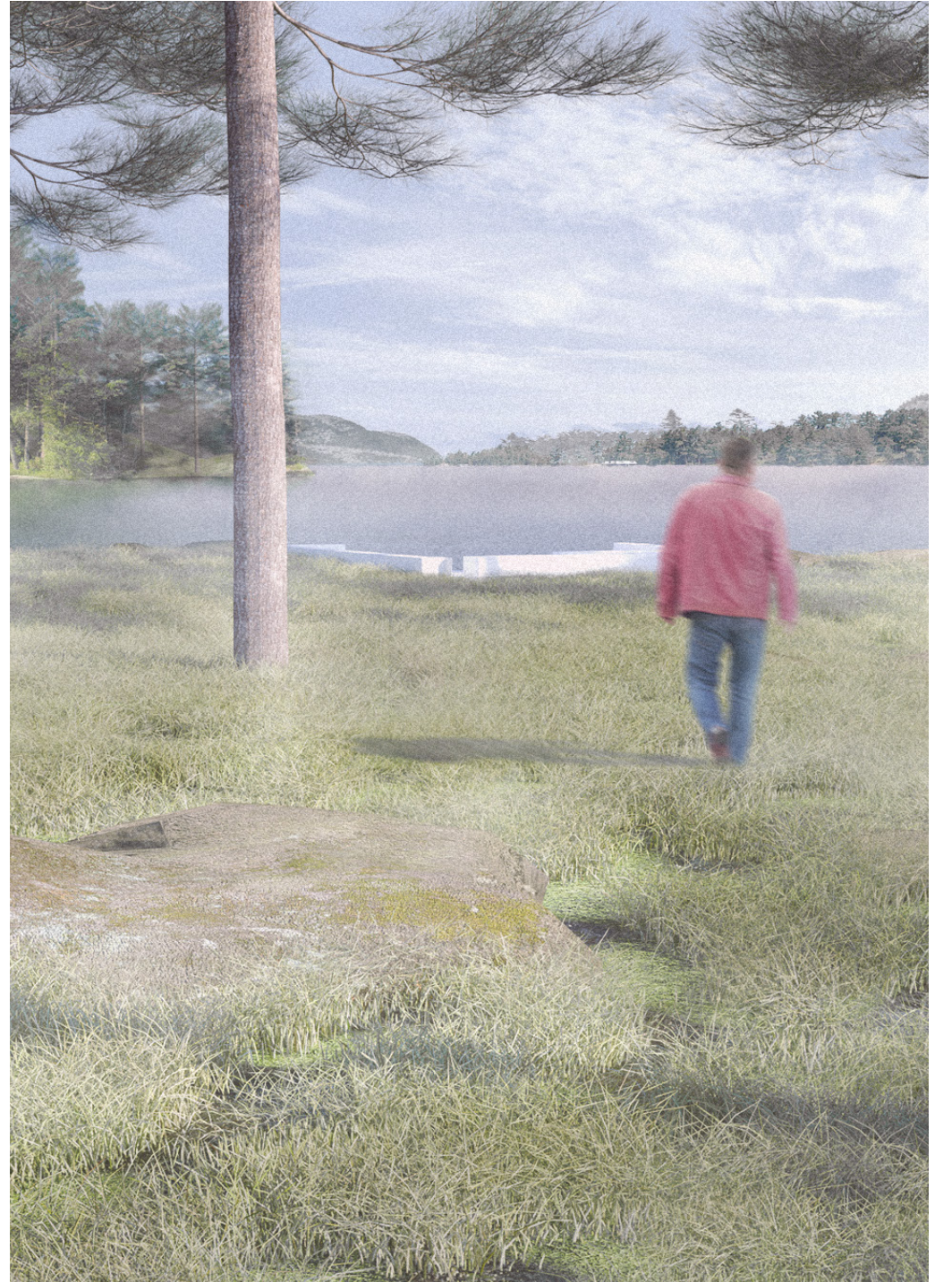


Rendering : Viewing the ancient stone the monument was built around from above.



Section : Land Monument Section.

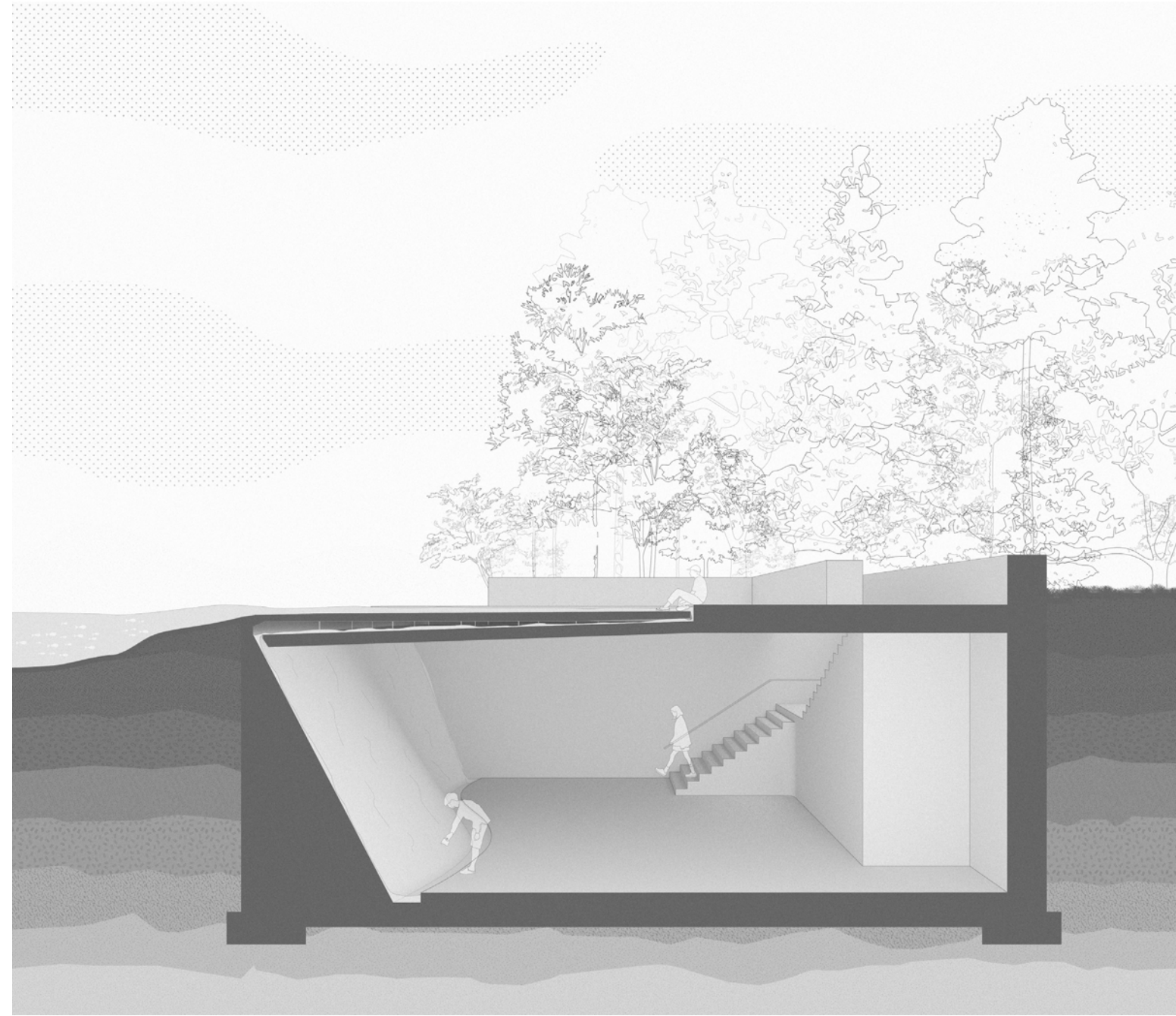




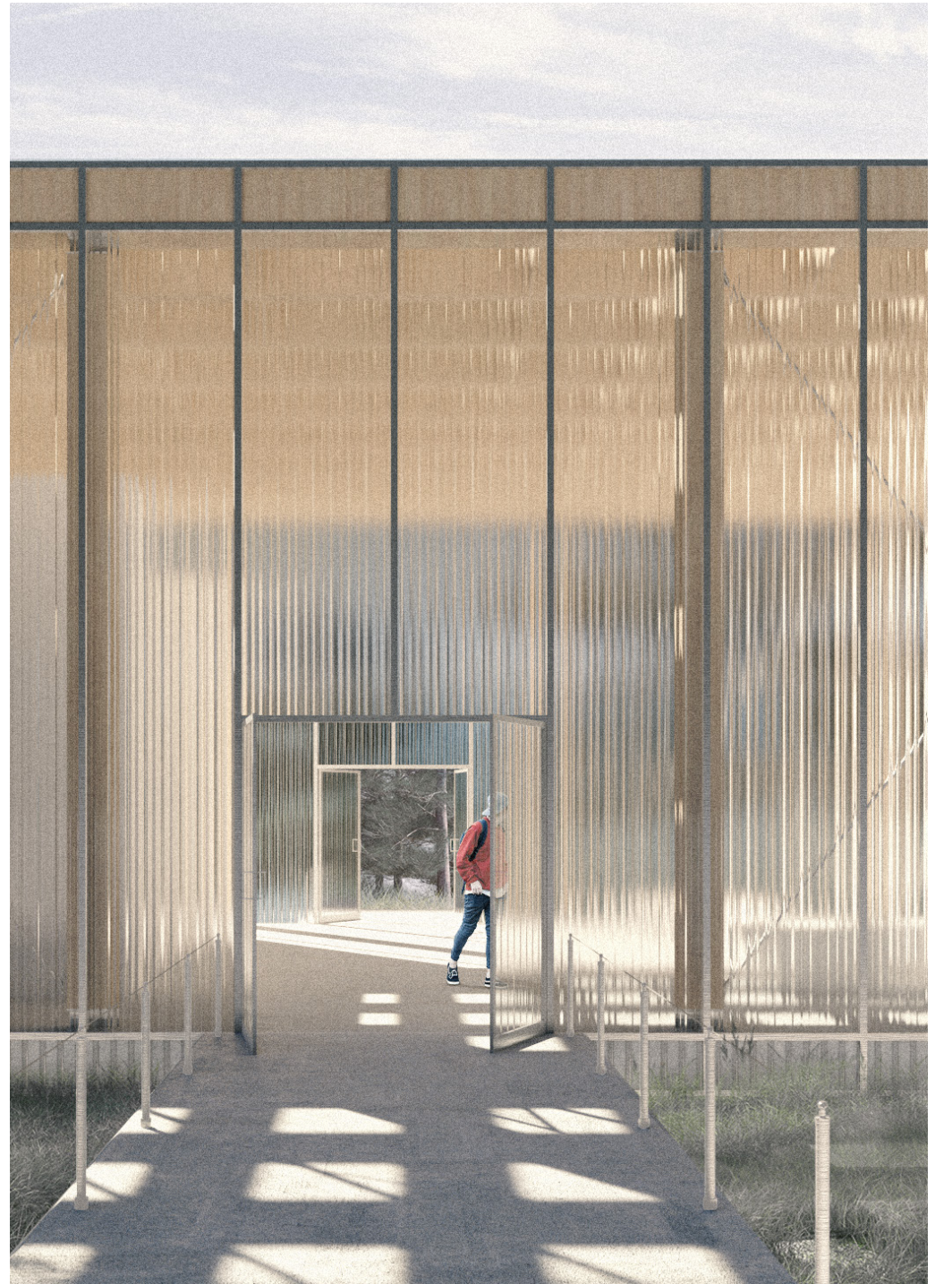
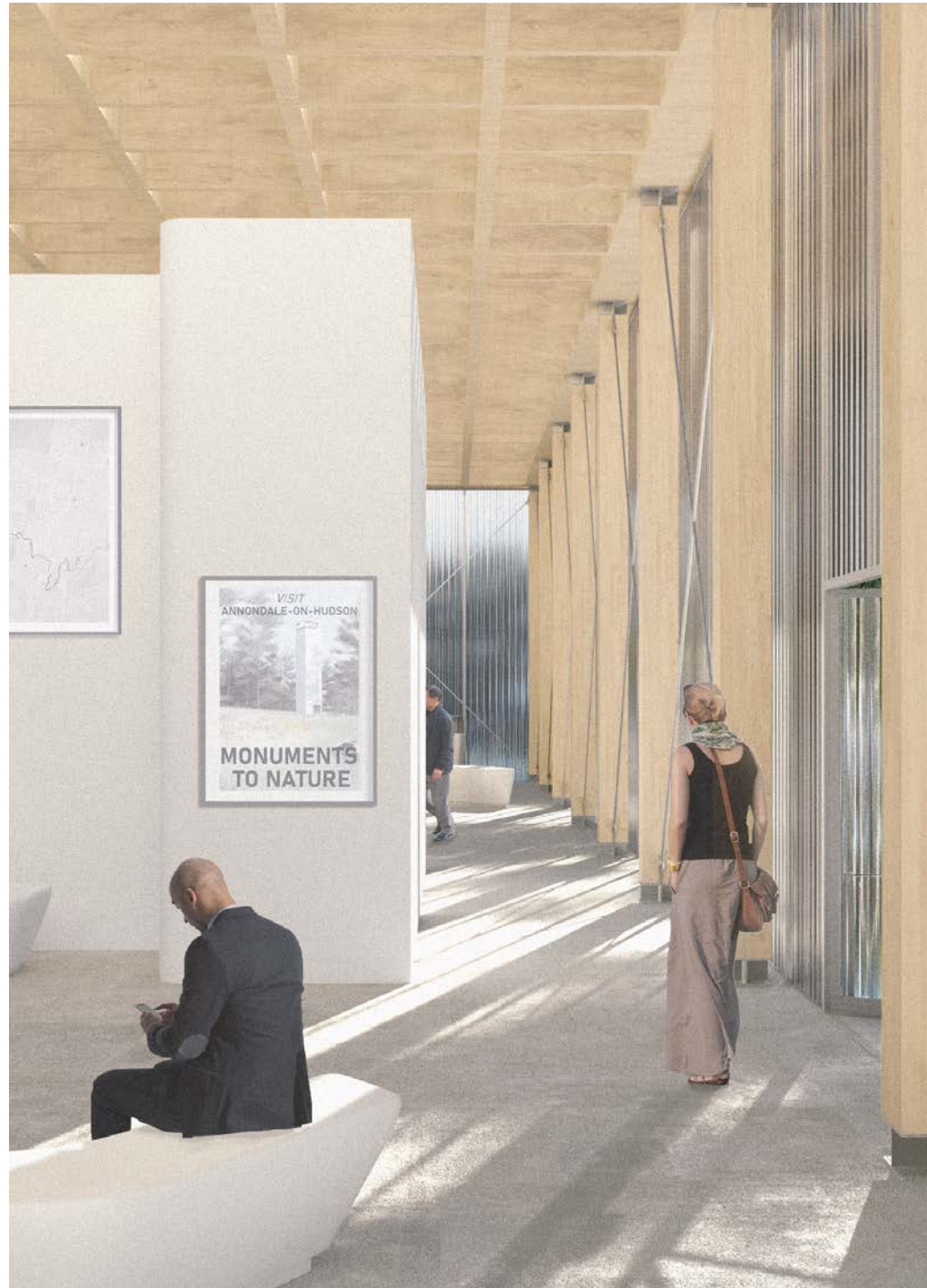
Rendering : Water washing up onto the Water Monument.

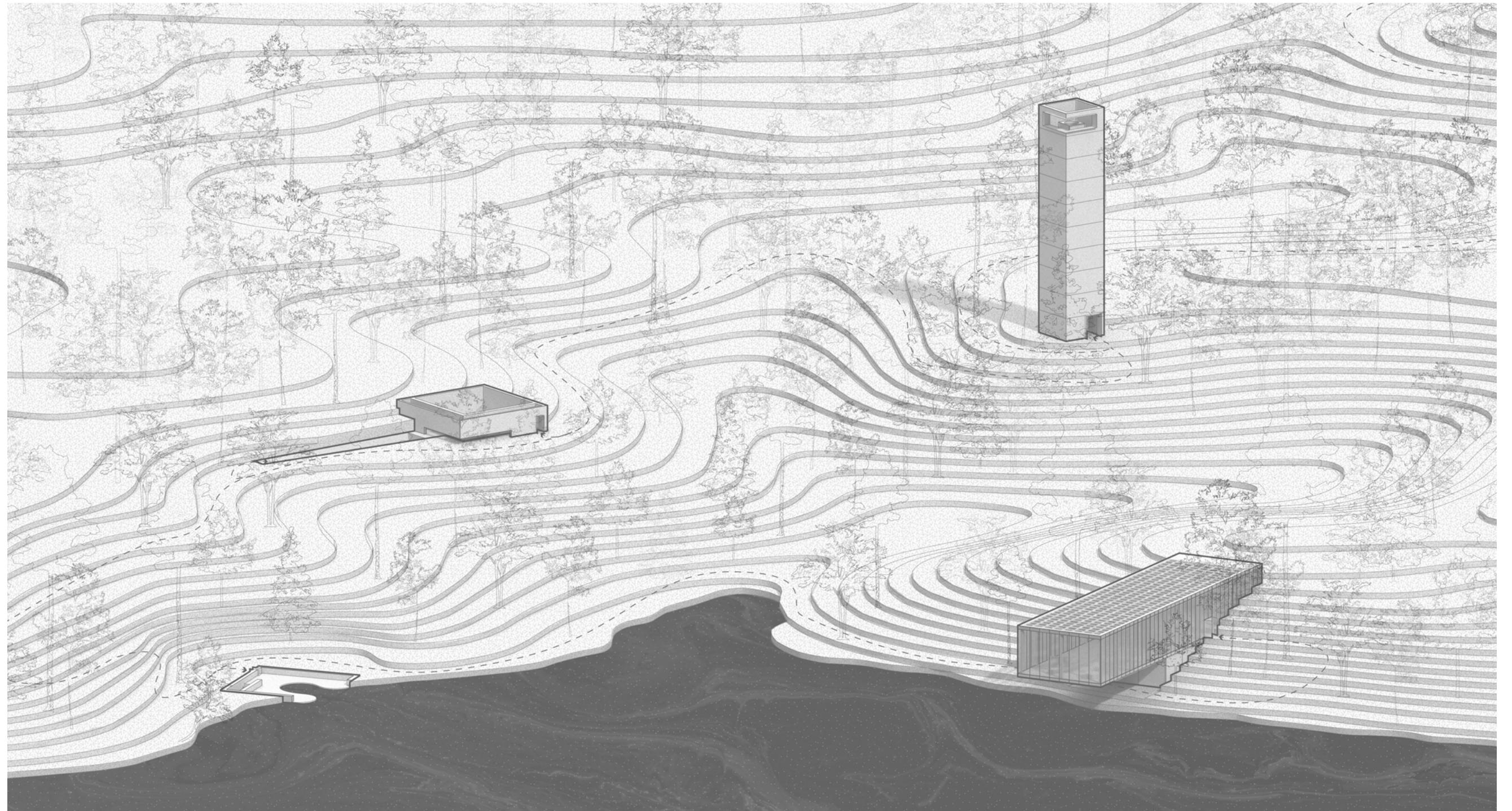


Section : How people can occupy and interact with the Water Monument.











Rendering : Looking up at the intervention from the ground.

INTER-CONNECTIVITY

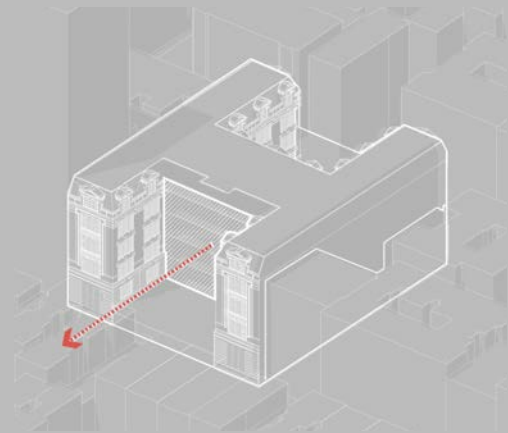
East Village, New York City, New York.

The project fosters an environment of sharing and connectivity through play and education. Children come from different backgrounds and the ability to share is very important to their growth and development. Play is free, genuine, and important keeping them alert.

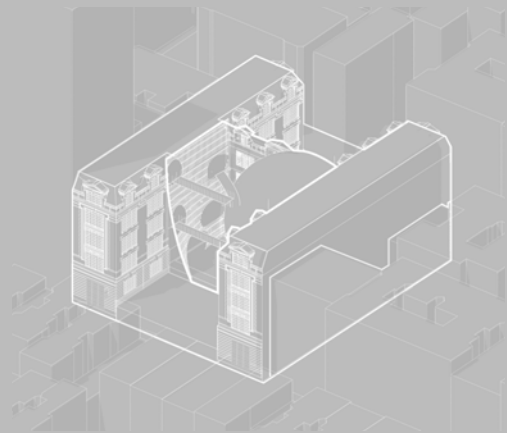
Creating space in which they aren't inhibited by the lack of open space in the city and creating opportunities within the program is key. The geometries of space balance the adjacency and circulatory experience of the occupants leading them to destinations where they are able to break the boundaries of what is a classroom and interact freely and share with one another.

In the Neighborhood of the East Village, PS 64 has a prominent history and through Interconnectivity, it returns to it's original glory with additional services that are needed in the future classroom.

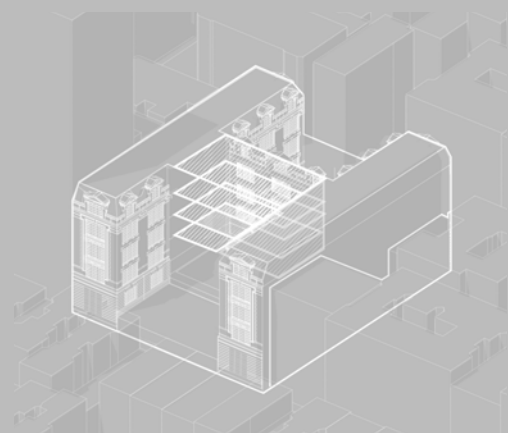
Studio Critic: Karla Rothstein
Spring 2021 - Core 2



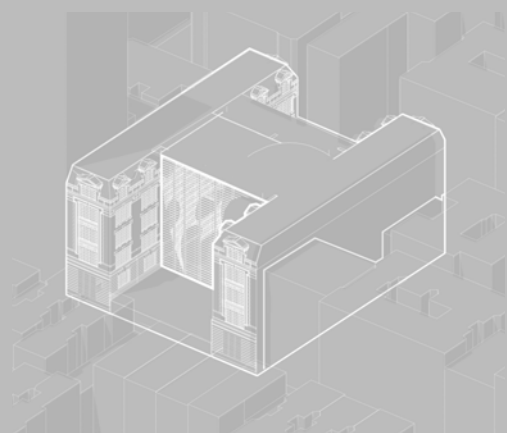
South Facade Removal



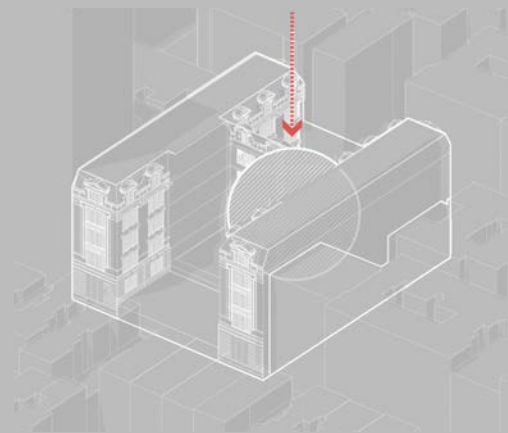
Circulatory Experience



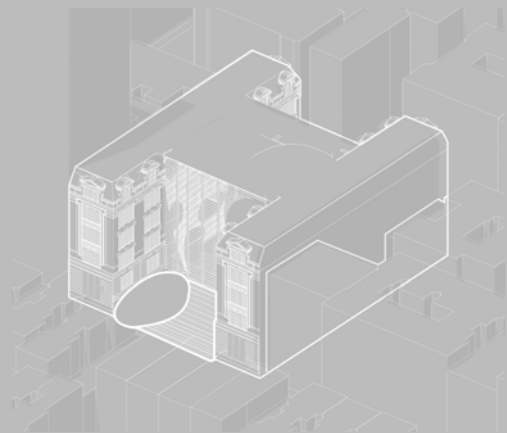
Mid-Section Floor Plate Removal



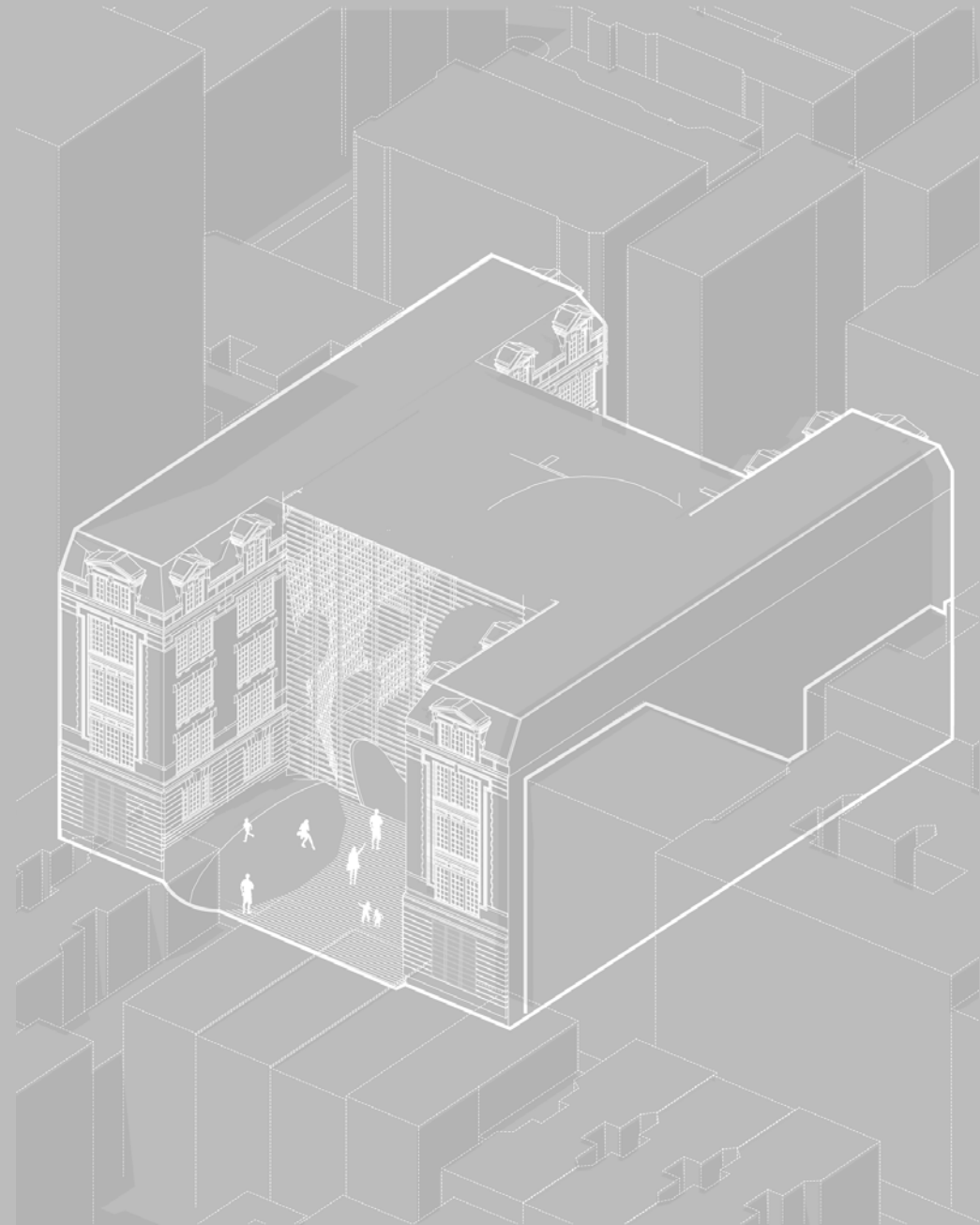
North & South Facade Addition



Atrium + Play-zone Creation



Entry Experience



Axon : The proposed architecture.

Diagram : The interventions with the existing form.

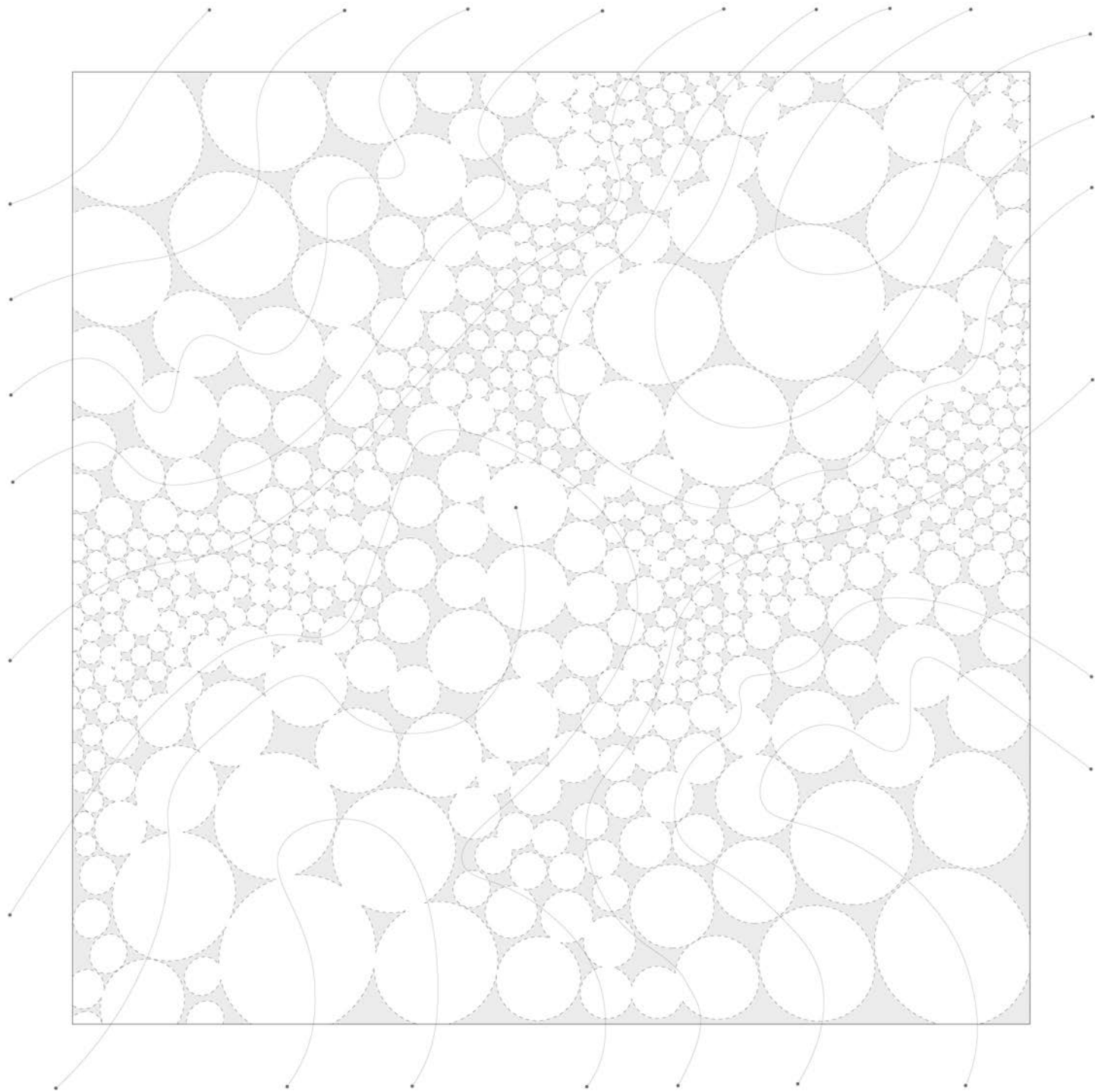


Diagram : Connectivity and integration via touch.

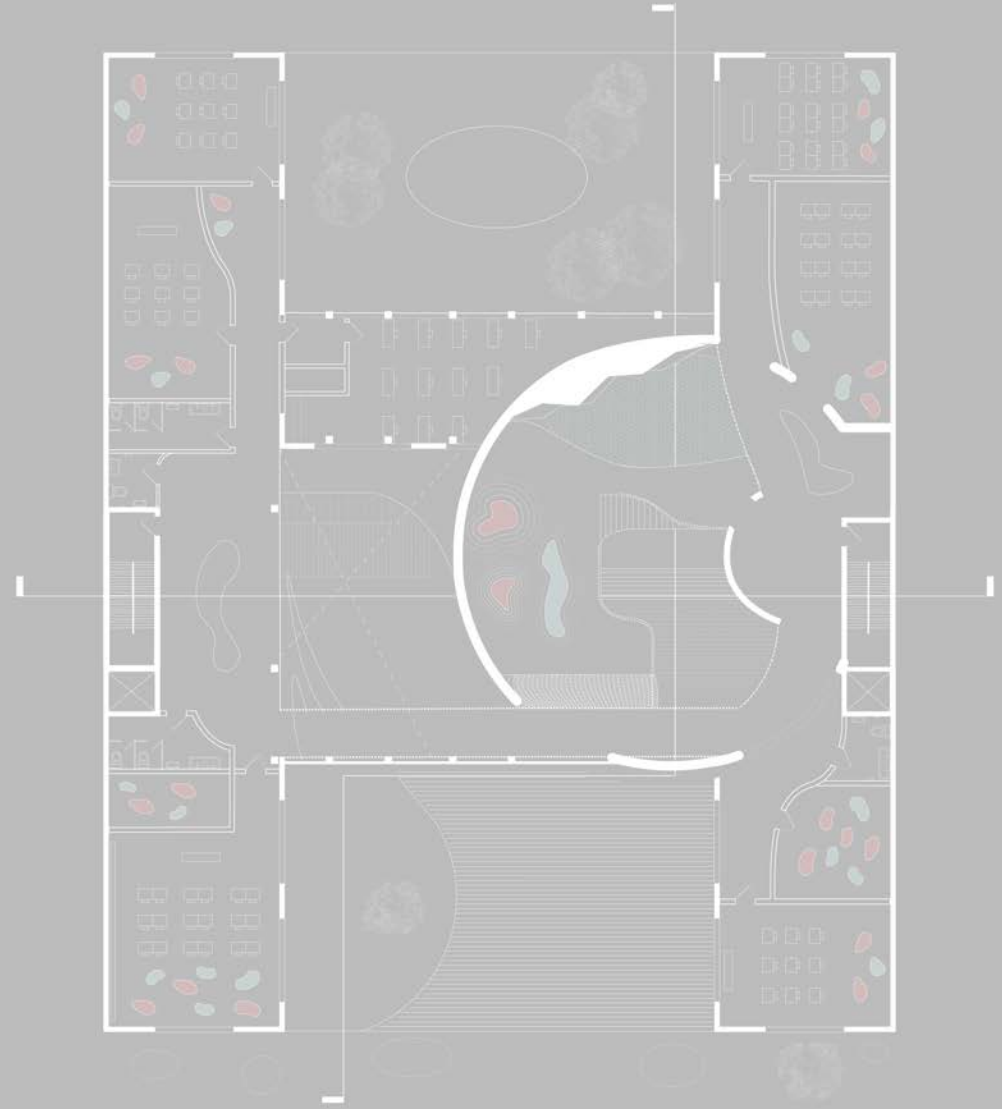


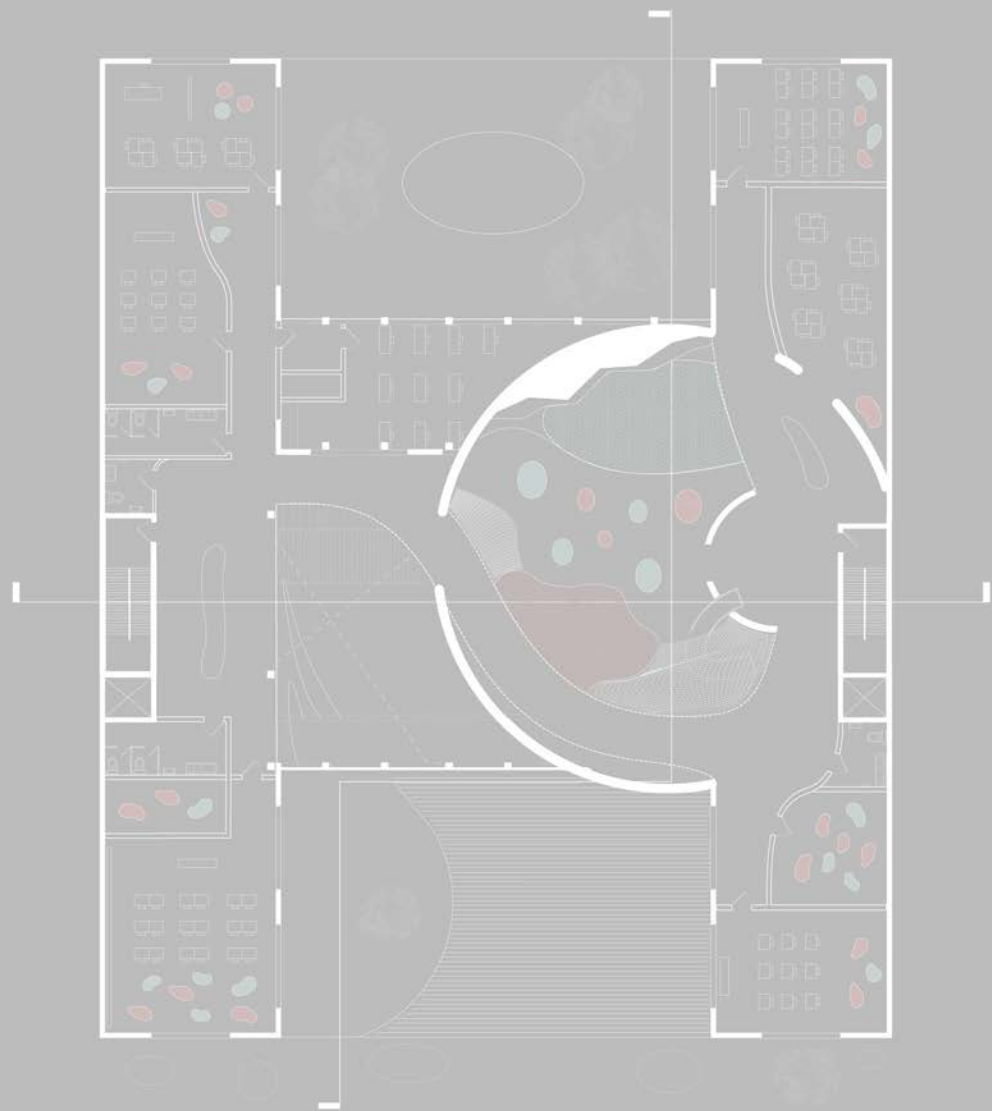
Material Experiments : Concrete Castings (porosity).

Rendering : Hallway outside of the concrete mass.



Floor Plan : Typical Educational level.



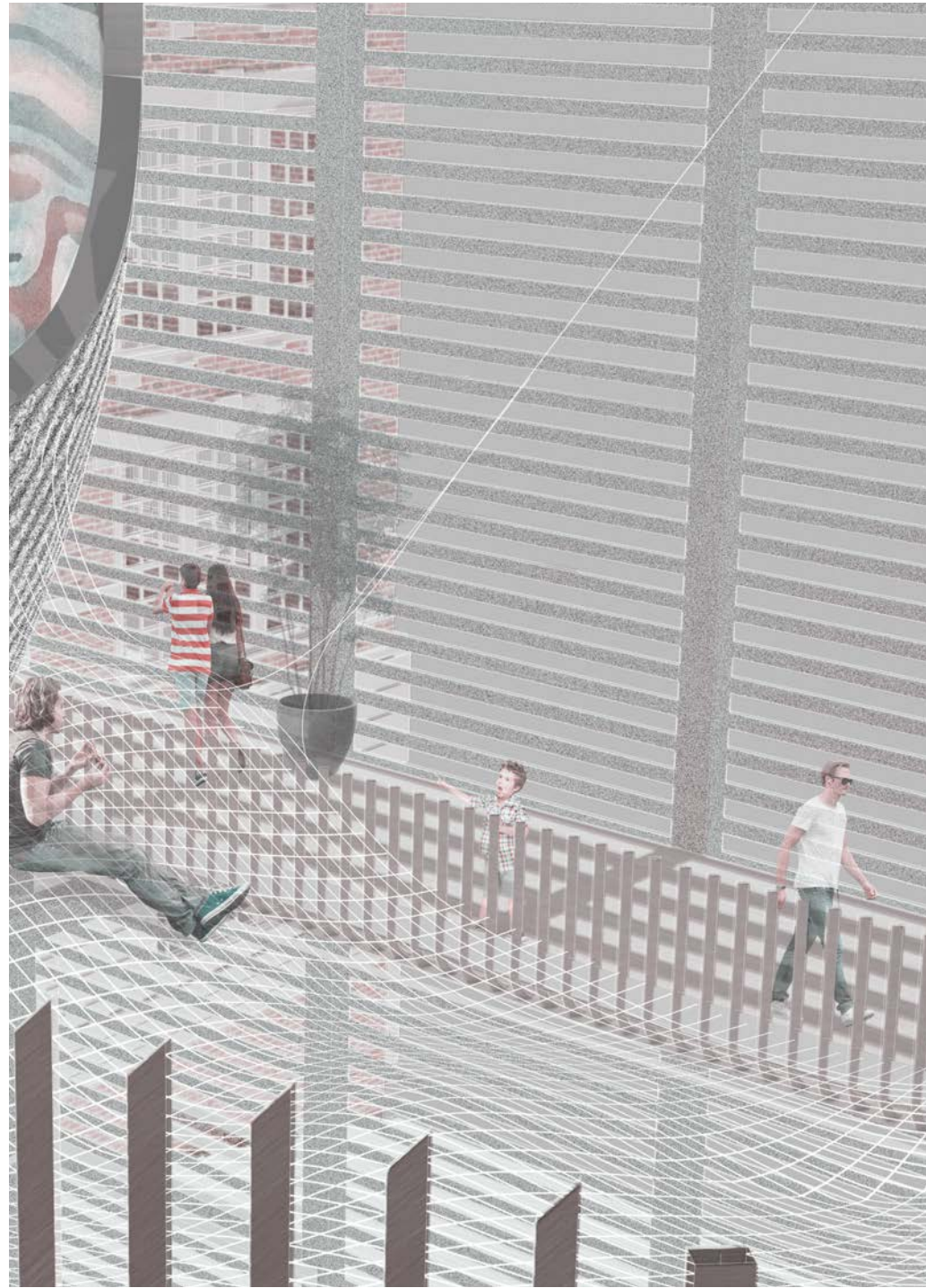


Floor Plan : How you'd circulation through the area of play.

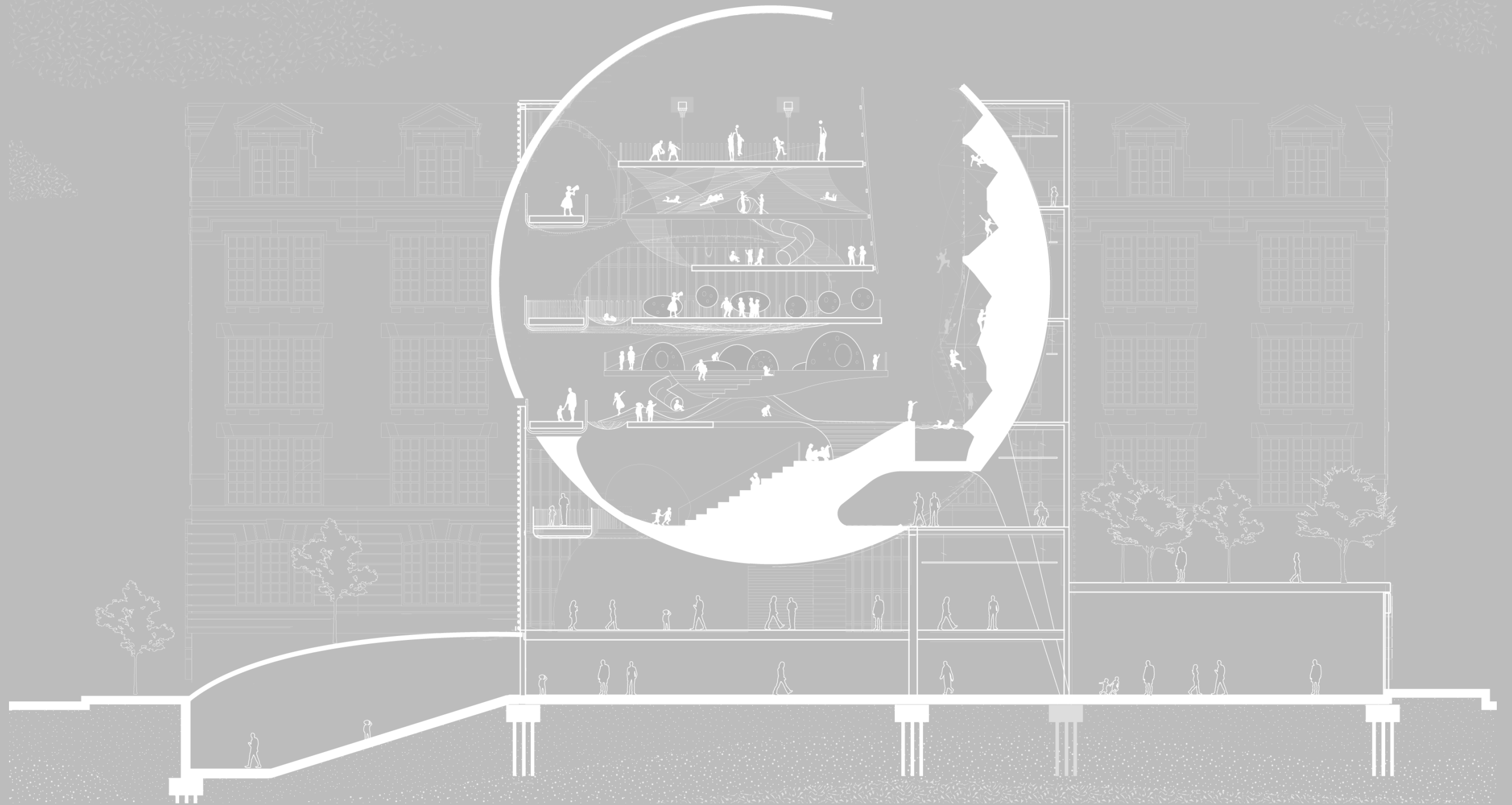


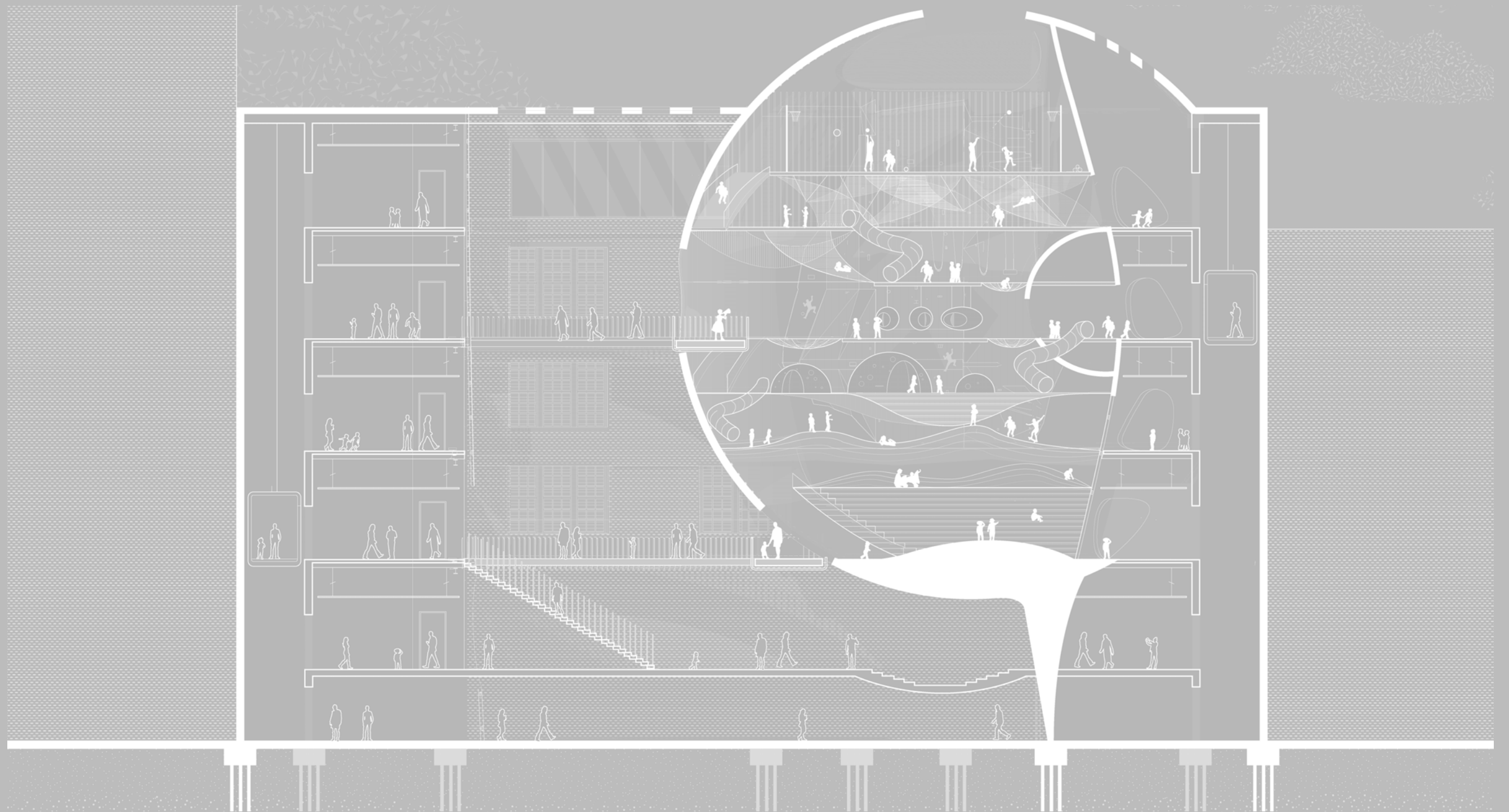
Rendering : How the concrete mass creates space for play.

Rendering : Areas of calmness in tension between circulation.

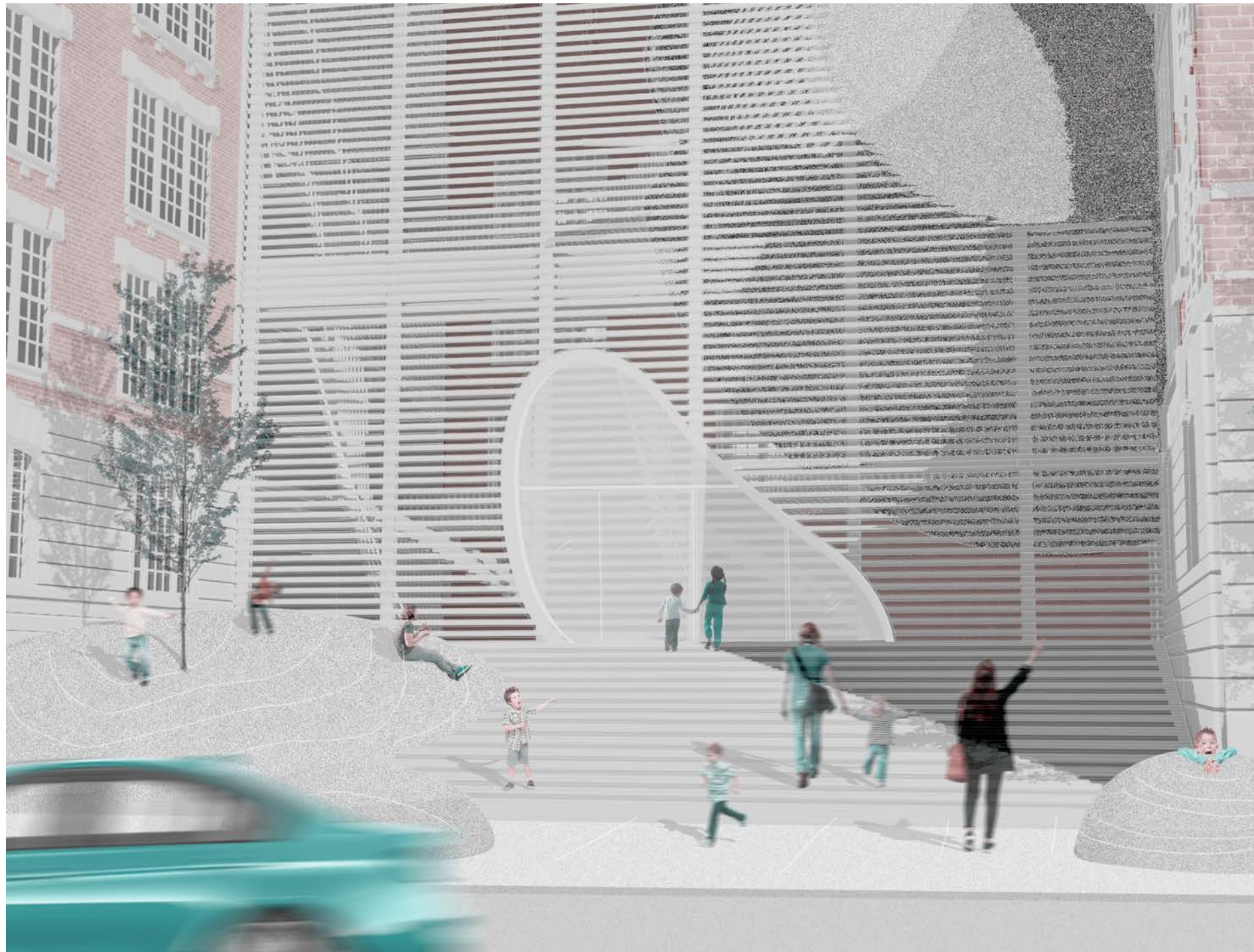


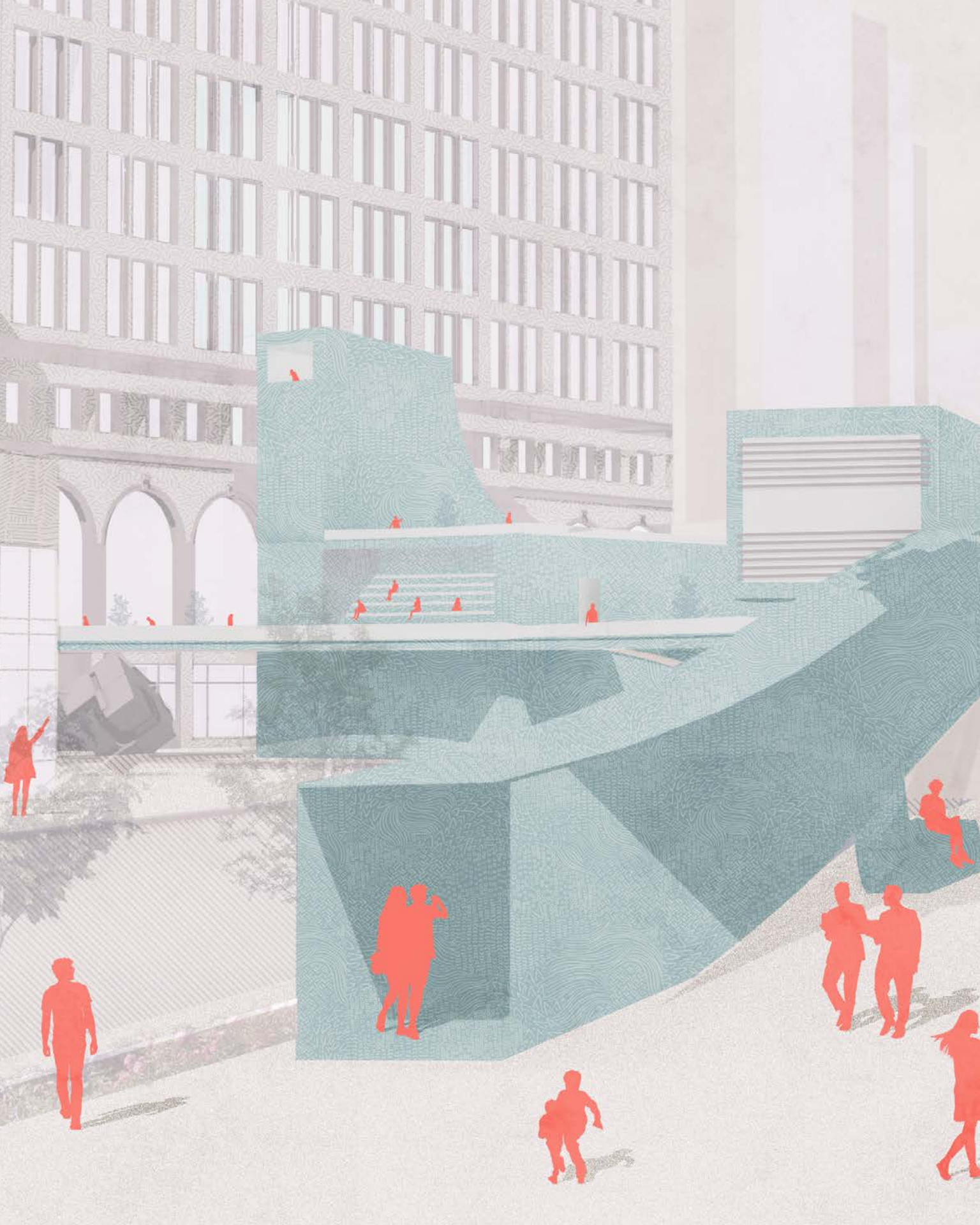
Rendering : Different forms of play shown inside the sphere.





Longitudinal Section.





Rendering : Approach and entry into Astor Place Ambiance from Cooper Square.

ASTOR PLACE AMBIANCE

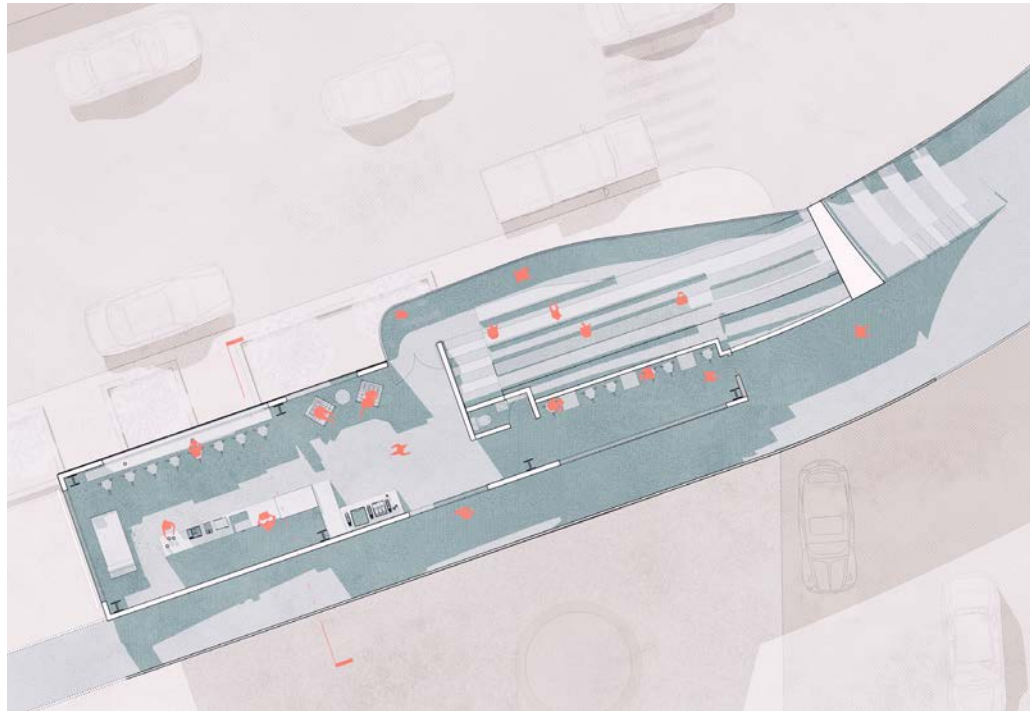
Astor Place, New York City, New York.

Astor Place Ambiance proposes an elevated architecture that acts as a viewing platform for the community. Tying into The Public Theater's repertoire of venues, this is a completely outdoor venue that would operate in the evenings with specific musicians or performers scheduled. On other days the structure allows for spaces above and below for moments of community and gathering. The platform provides a variety of seating focused around Astor Place as a centripetal stage, along with a multiplicity of spaces for different people to congregate. Utilizing vendors and the local restaurants, the platform also allows events to take place on the top, including art installations, or food events.

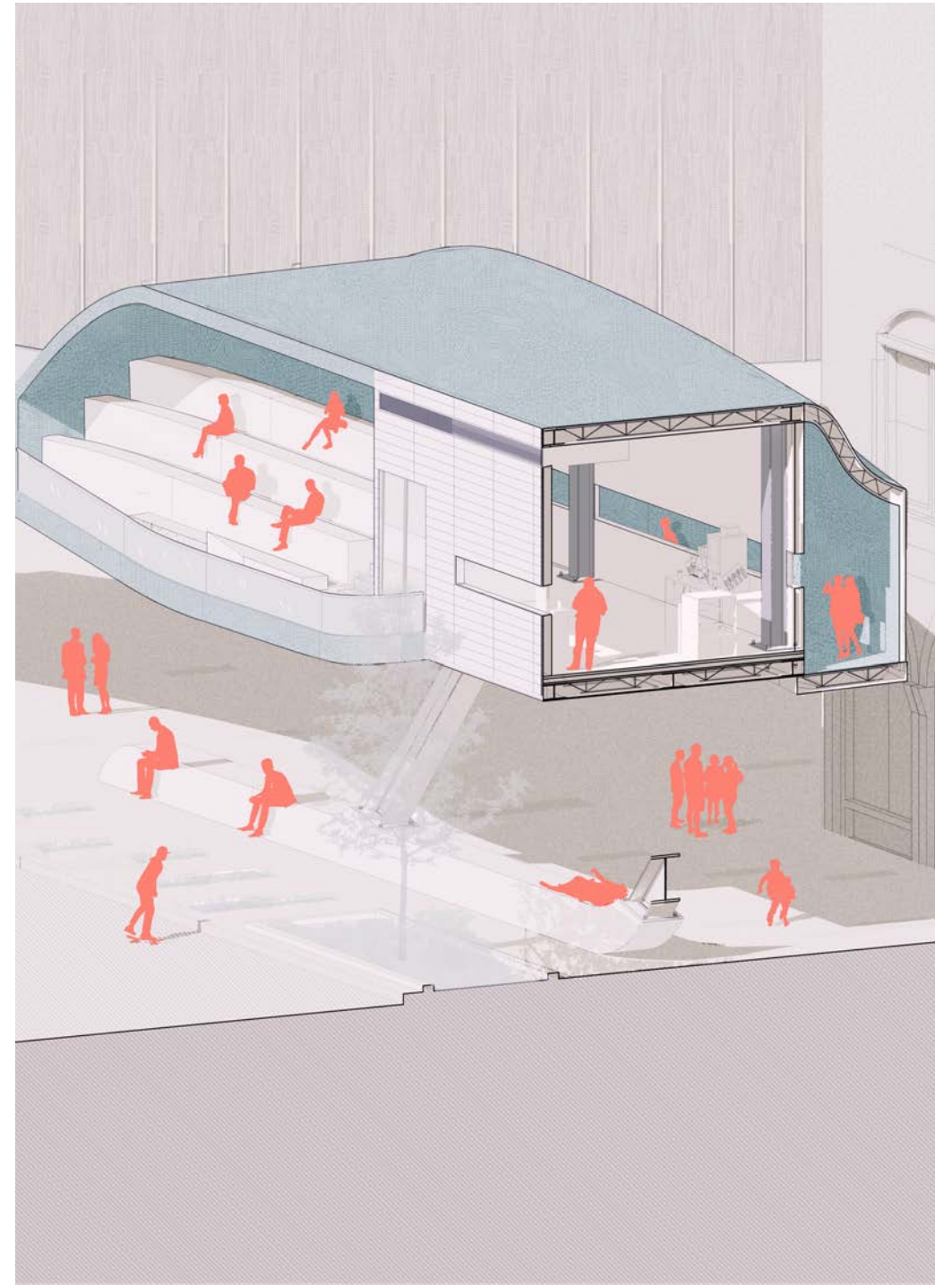
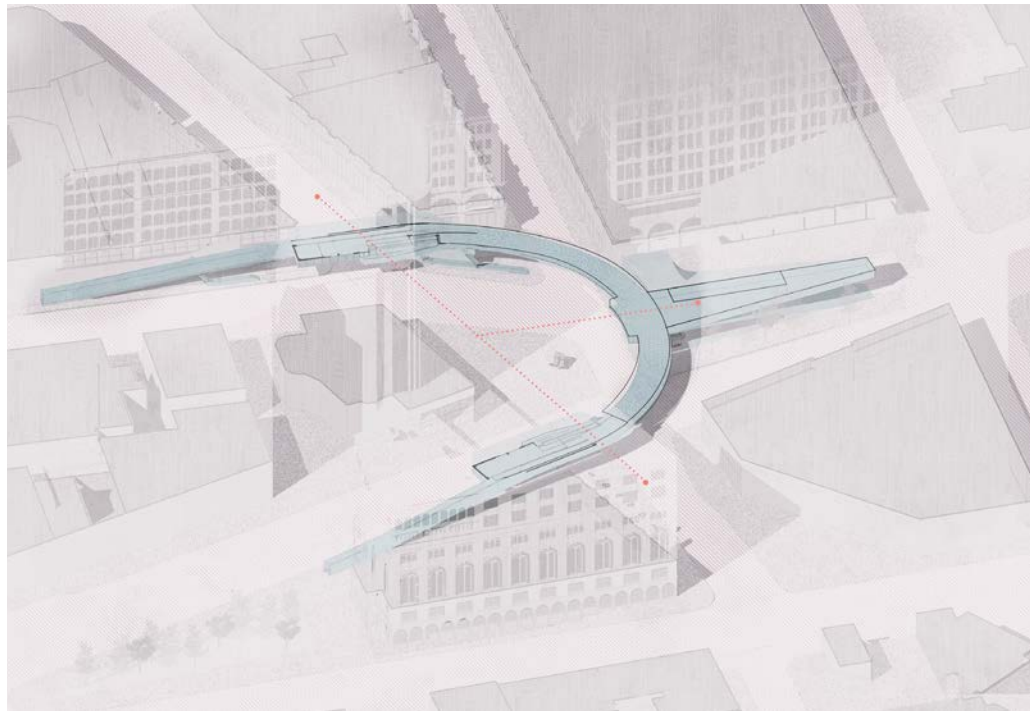
The form aims to have very little impact and contact on the surface level and the existing context. Astor Place Ambiance hopes to avoid obstructing existing pedestrian flows, vehicular traffic flows, and experience within the square, but amplify the possibilities and experiences of the previous condition. On a similar note, the platform aims to utilize the windows of the existing context as a means of viewing, expanding the ideas of spectatorship to include viewers from work or home for example.

Studio Critic: Amina Blacksher
Fall 2020 - Core 1

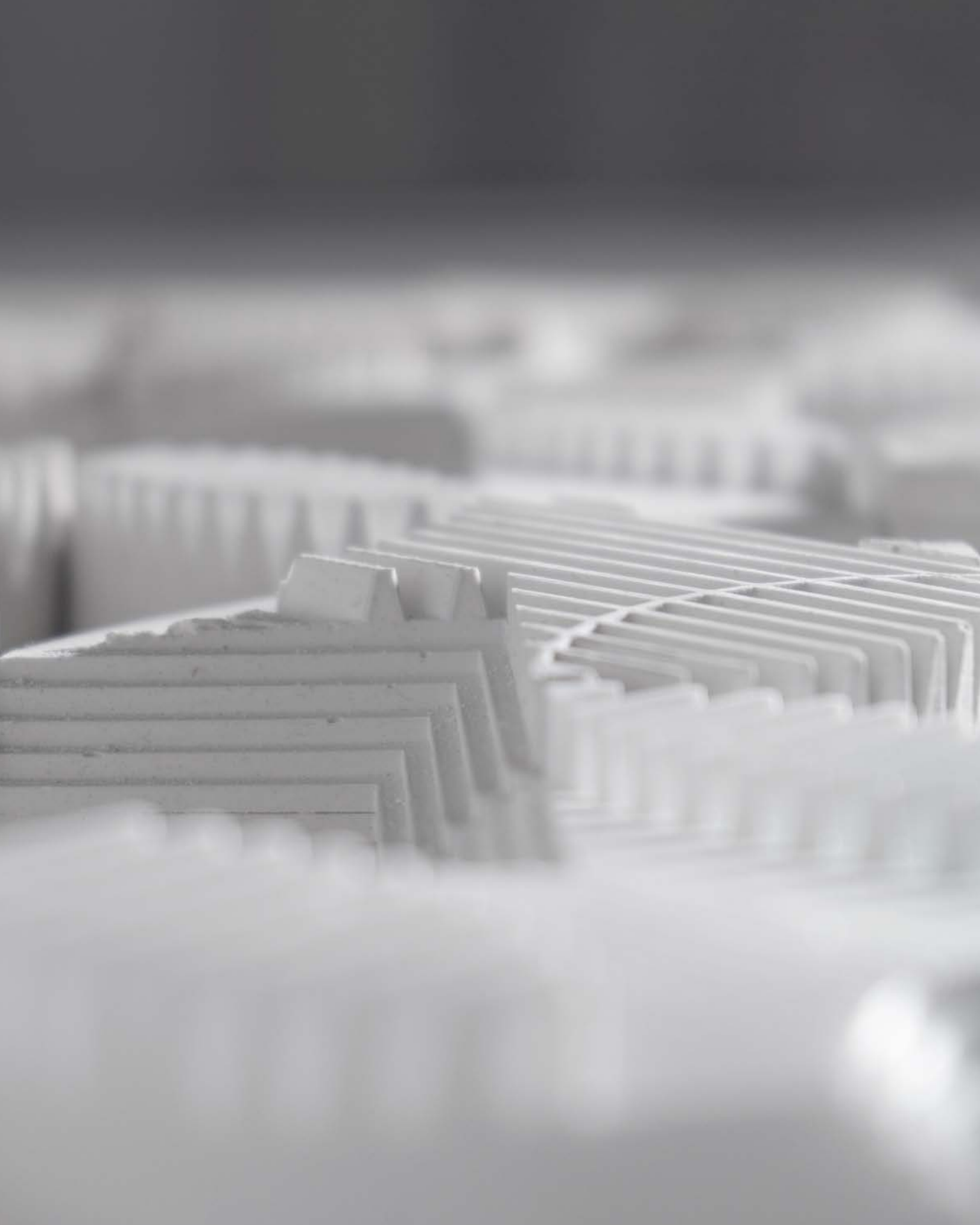
Floor Plan : Viewing Platform enclosure



Plan Oblique : The elevated structure above Alamo Plaza.



Section : Slicing through the elevated viewing platform.



Photography : Positive Negative tile.

POSITIVE NEGATIVE

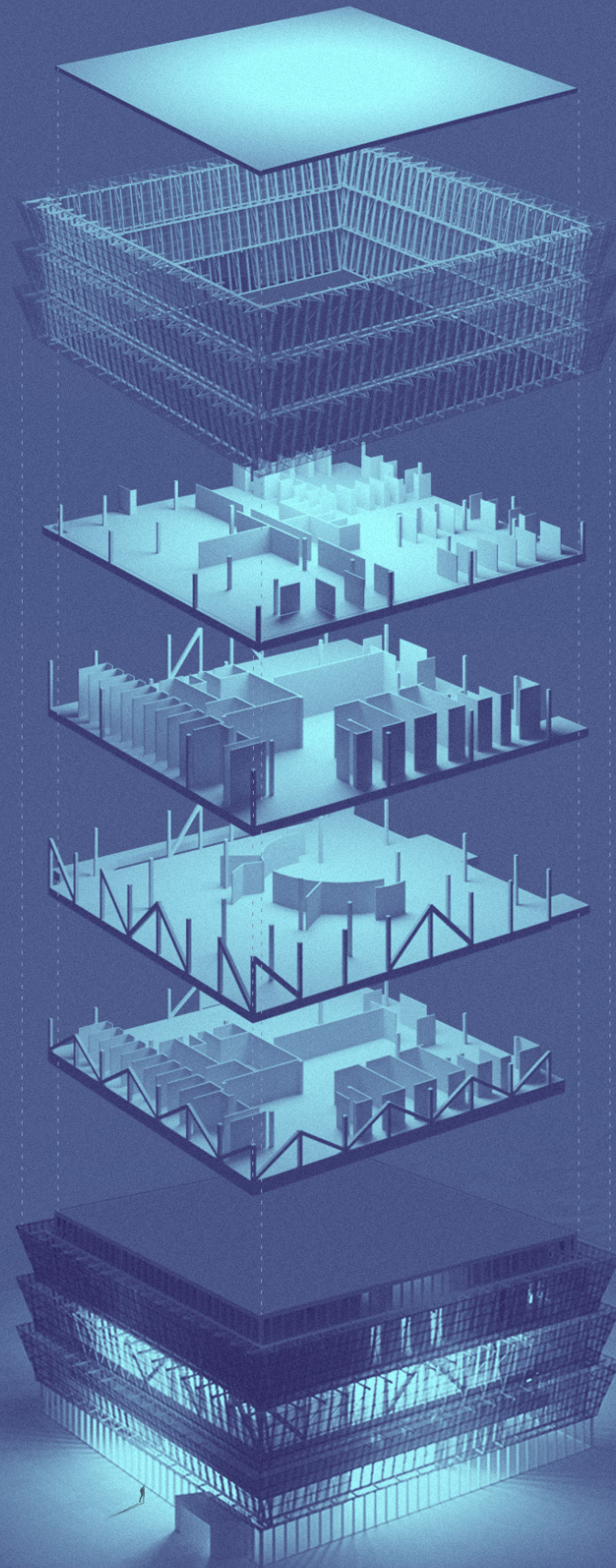
Positive Negative is a project focused on the making of a repetitive geometry in the class of Translational Geometries. In this class we took a 2D idea and turned it into a repetitive tile that can fit together or relate in multiple ways via one form. Here I designed a detailed form with many different surface details to create formal relationships but also textural ones that can be appreciated from close and far visually but tacitly.

Studio Critic: Joshua Jordan
Fall 2022 - Transitional Geometries





Photograph : Linear organization

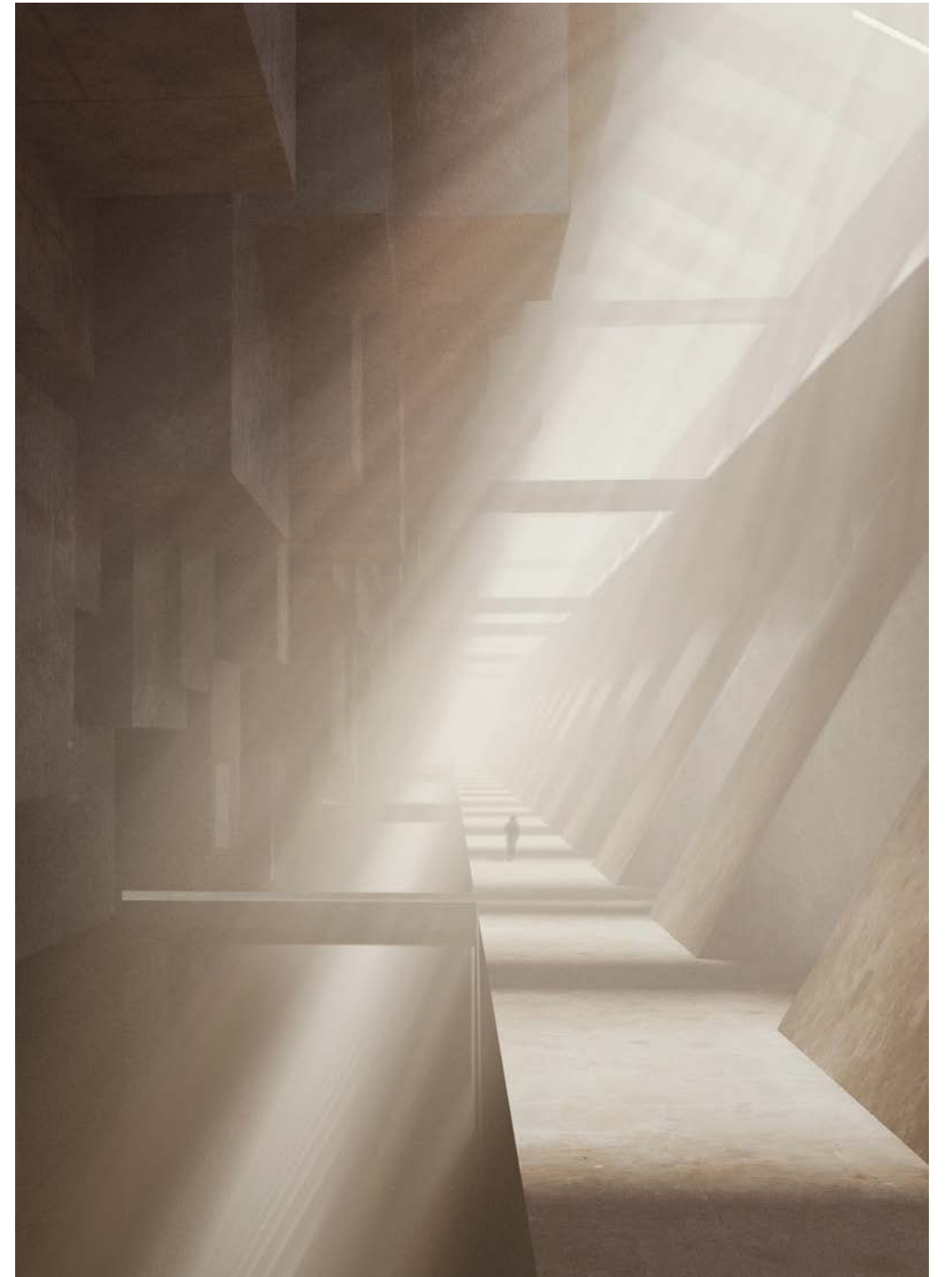


Rendering: ADR 1 - Fall 2020 Professor Joshua Uhl

VARIOUS VISUALS

Miscellaneous visualizations that have been produced from year one to year three at Columbia GSAPP. Visual story-telling persay.







Rendering : GSAPP Worm at Night.



