

**Takashi  
Honzawa**

**Portfolio**

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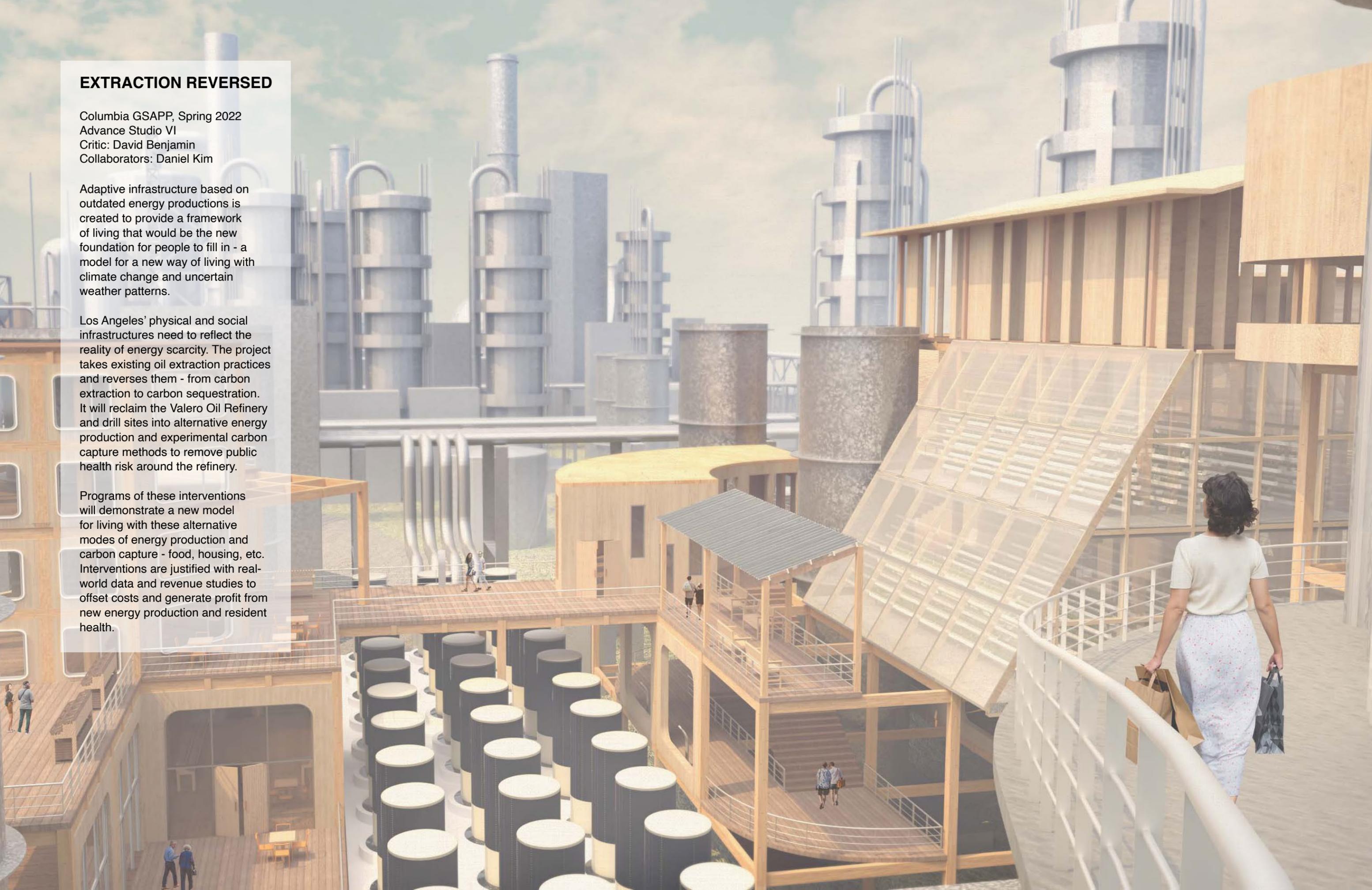
## EXTRACTION REVERSED

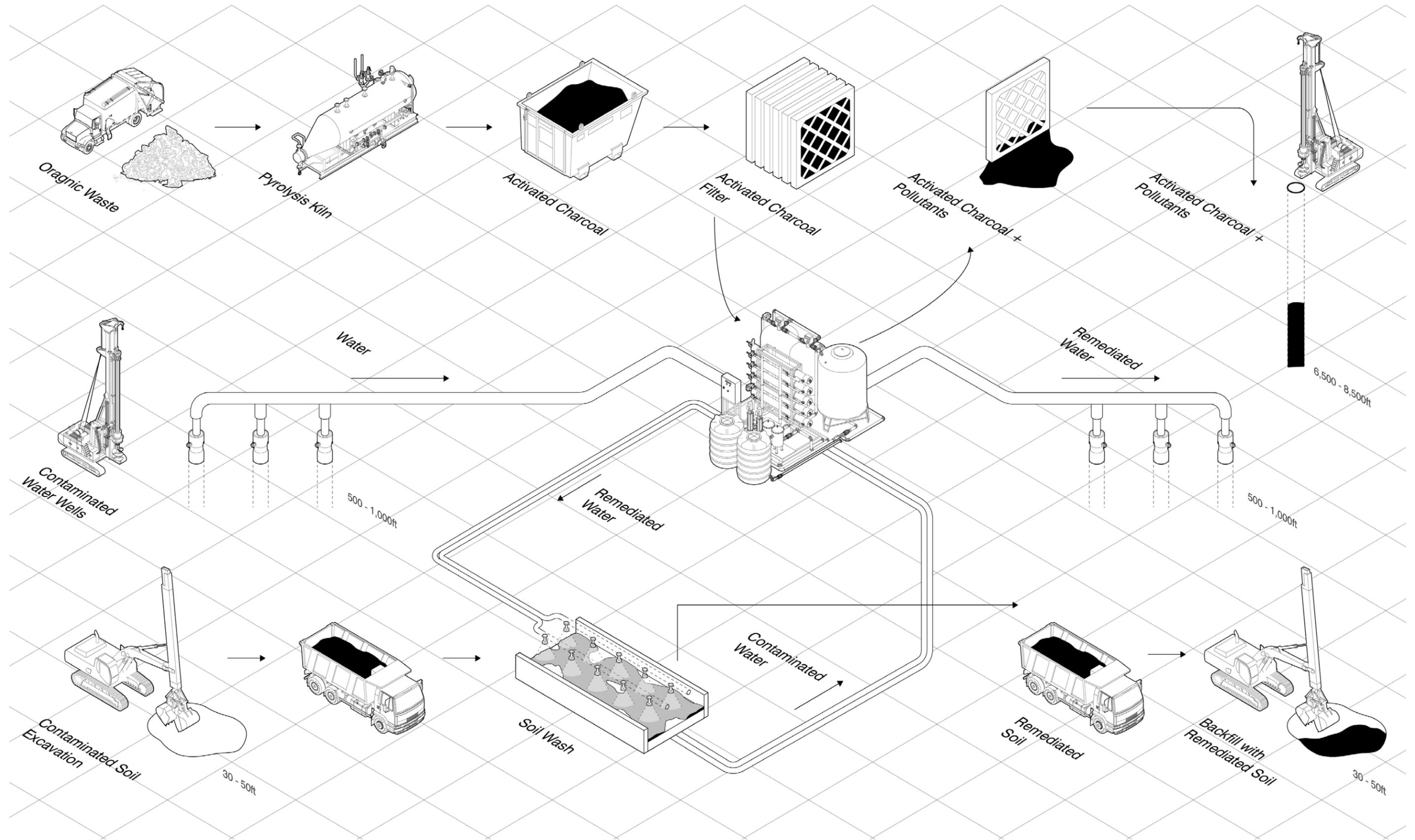
Columbia GSAPP, Spring 2022  
Advance Studio VI  
Critic: David Benjamin  
Collaborators: Daniel Kim

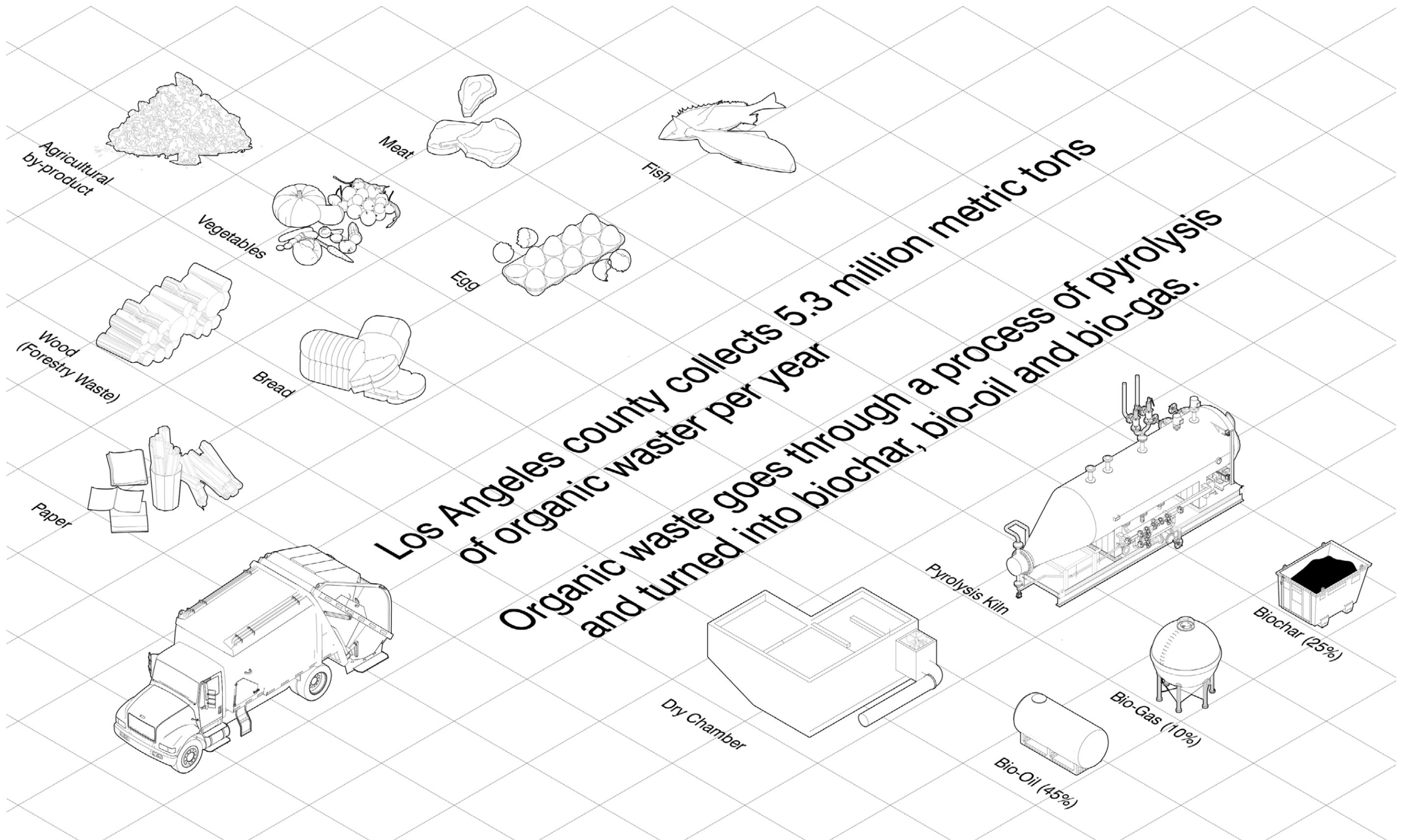
Adaptive infrastructure based on outdated energy productions is created to provide a framework of living that would be the new foundation for people to fill in - a model for a new way of living with climate change and uncertain weather patterns.

Los Angeles' physical and social infrastructures need to reflect the reality of energy scarcity. The project takes existing oil extraction practices and reverses them - from carbon extraction to carbon sequestration. It will reclaim the Valero Oil Refinery and drill sites into alternative energy production and experimental carbon capture methods to remove public health risk around the refinery.

Programs of these interventions will demonstrate a new model for living with these alternative modes of energy production and carbon capture - food, housing, etc. Interventions are justified with real-world data and revenue studies to offset costs and generate profit from new energy production and resident health.











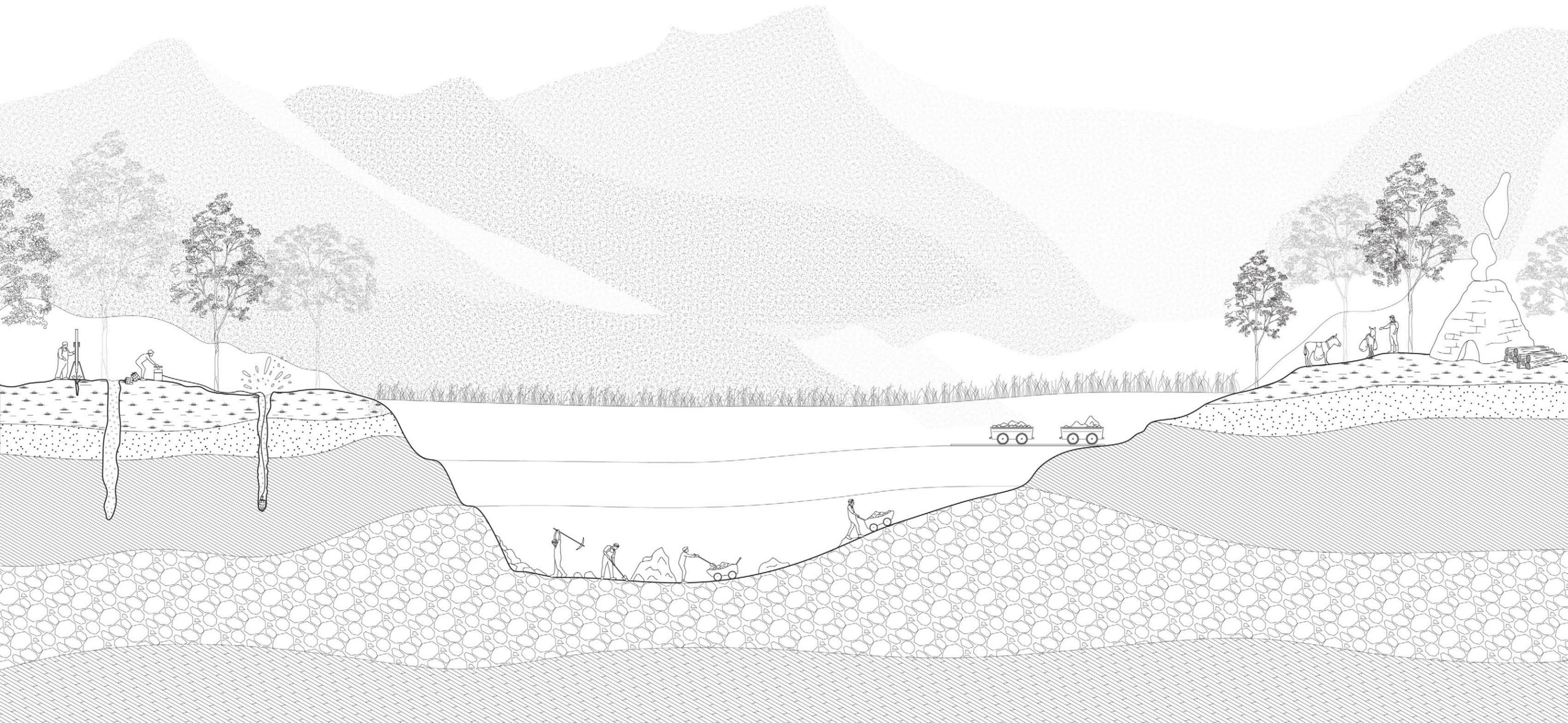
## THE CONTINUUM

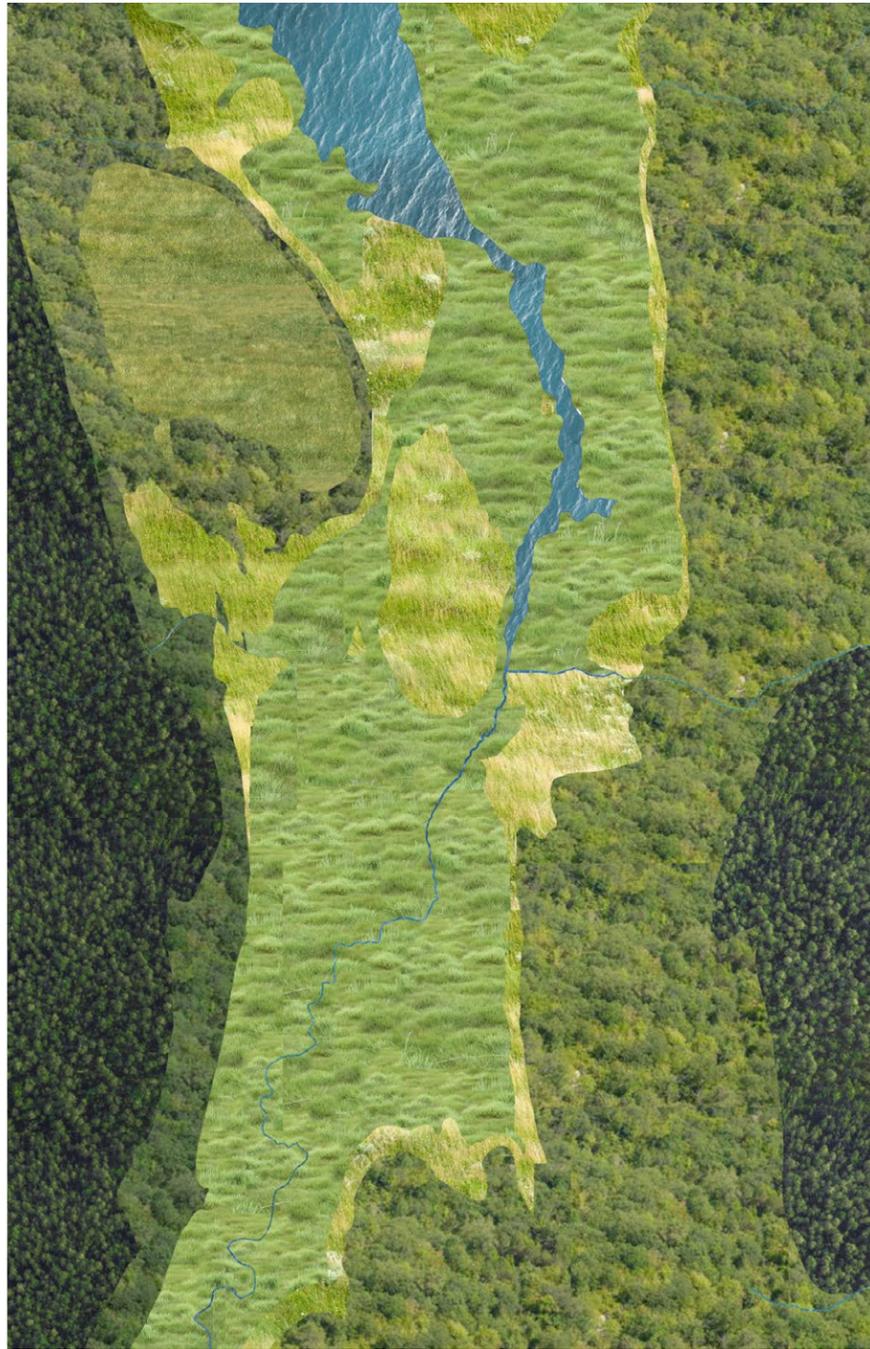
Columbia GSAPP, Spring 2020  
Advance Studio IV  
Critic: Jerome Haferd  
Collaborators:  
Agnes Anggada, Danielle Nir

The project is interested in hybridity as a way of creating new cultural, spatial and aesthetic praxes. By utilizing the agency of hybridity, our project aims to construct a new spatial and institutional stewardship project which brings stakeholders on site together as stewards of the land and water.

The continuum reorients the existing relationship between the stakeholders on site and their surrounding environment. Through hybridity, our project brings about synergies between the stakeholders so that we have this new common yet hybrid realm where the individuality of each stakeholder is combined to create a higher space of commonality.







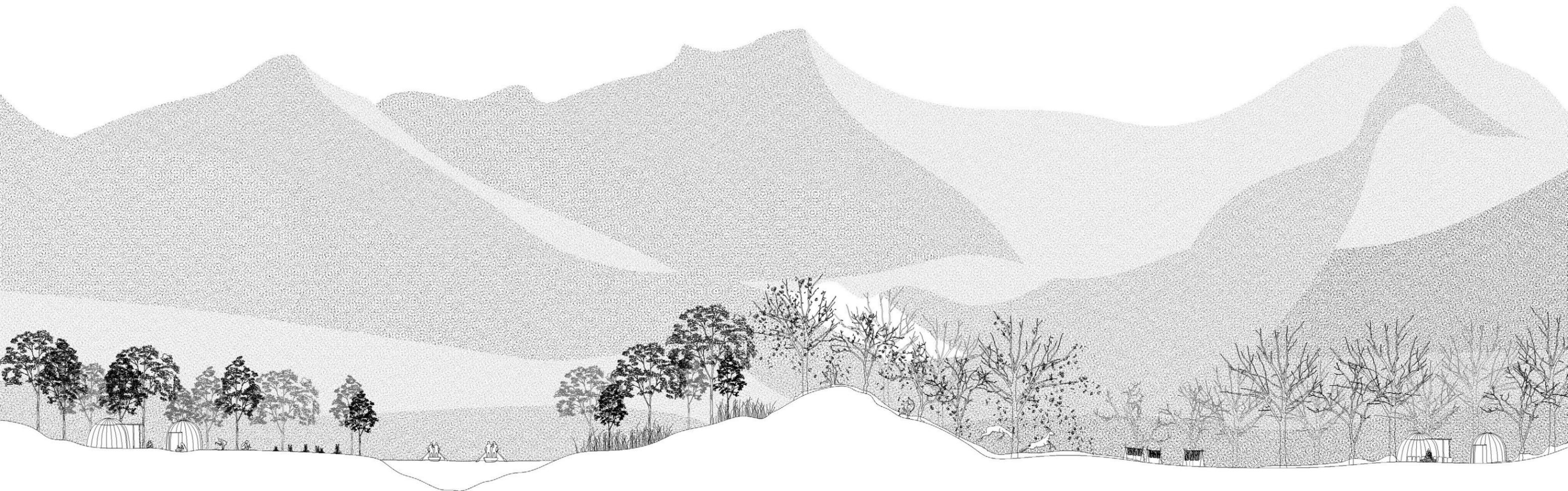
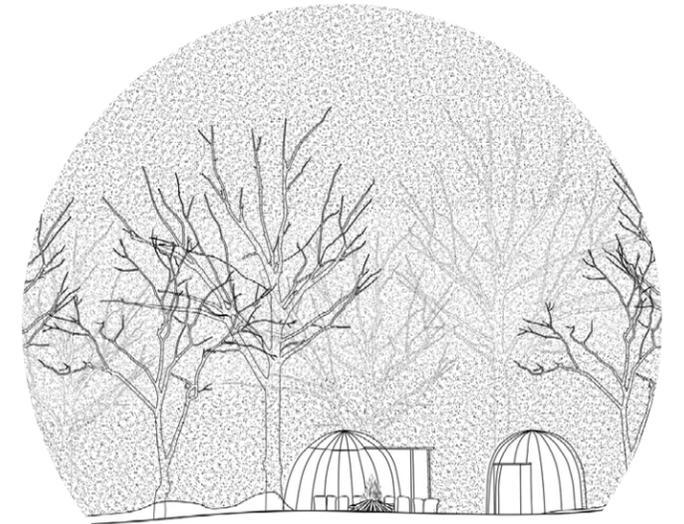
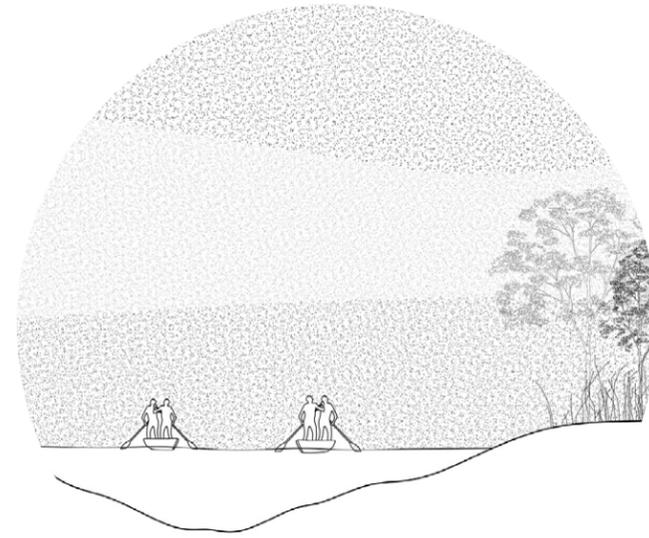
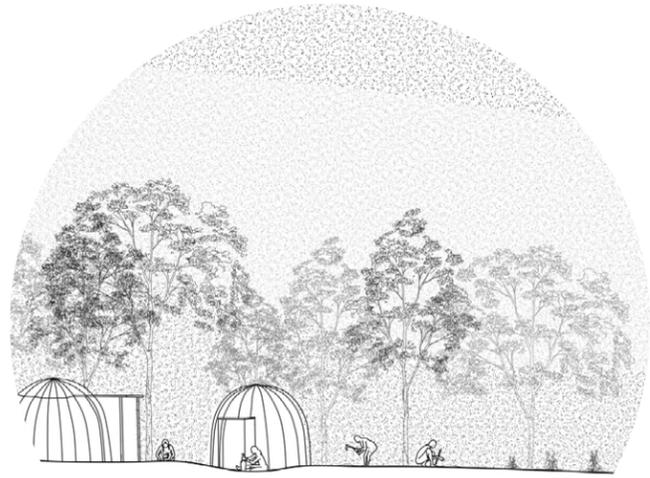
MOHECAN TRIBE ( - 1600)

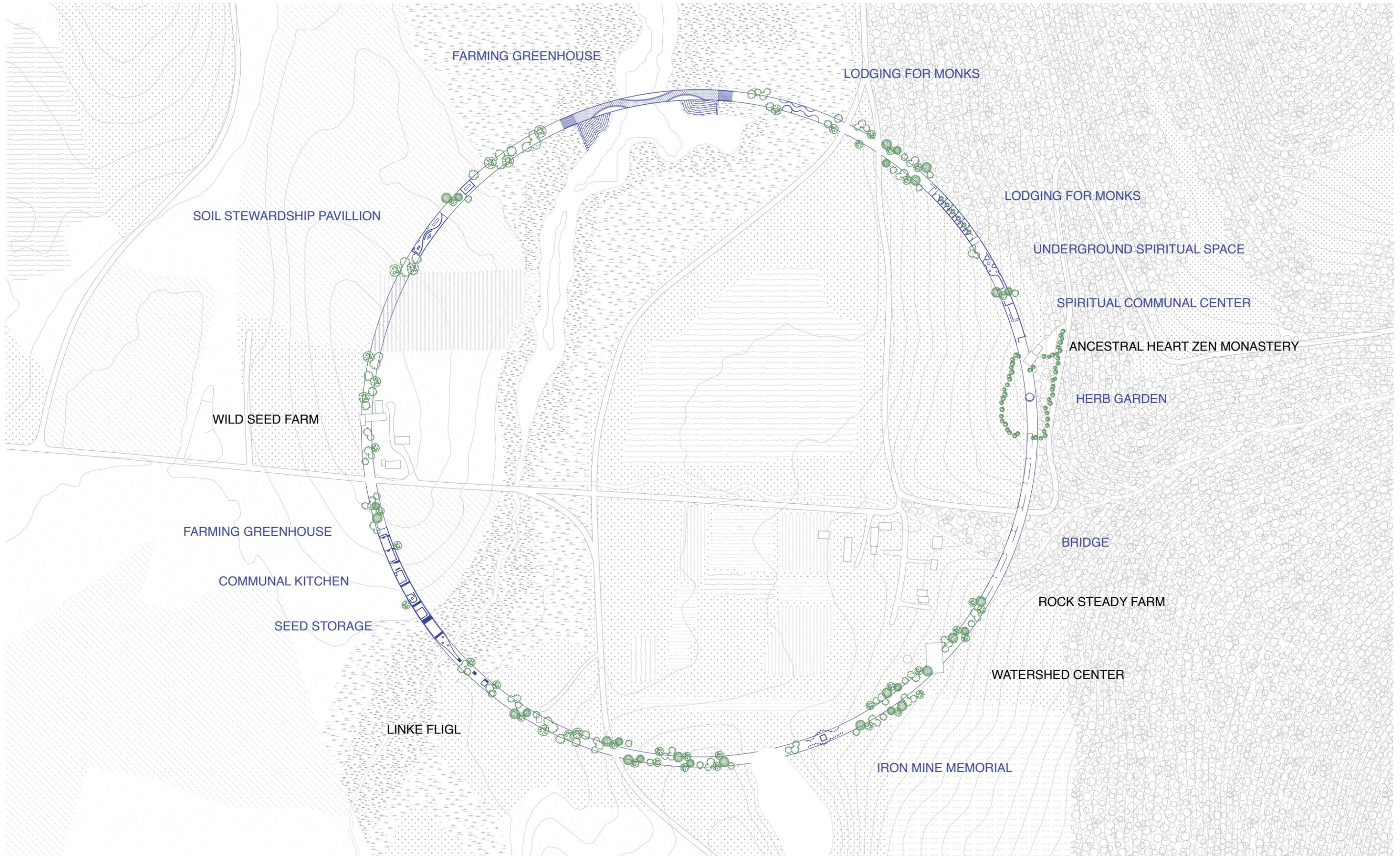


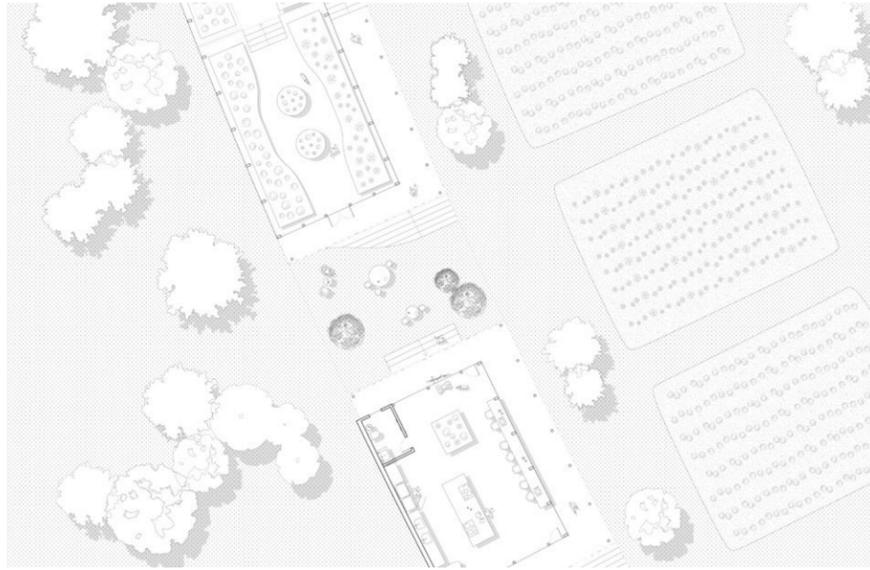
IRON MINING (1600-1900)



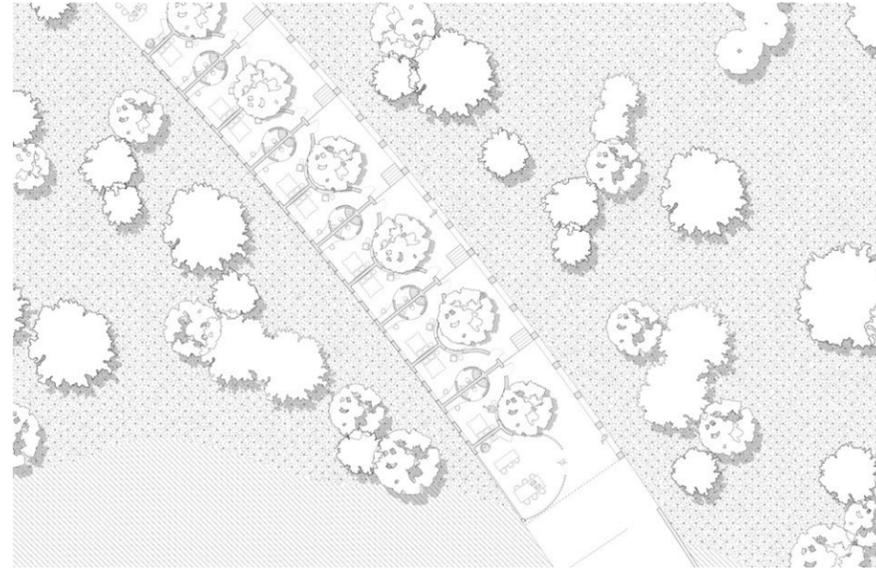
FARMING (1900 - )



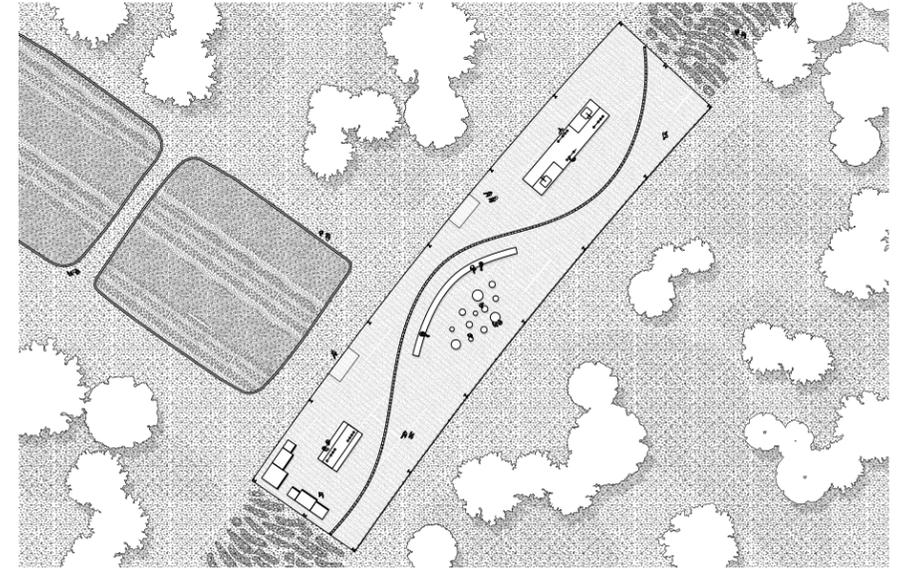




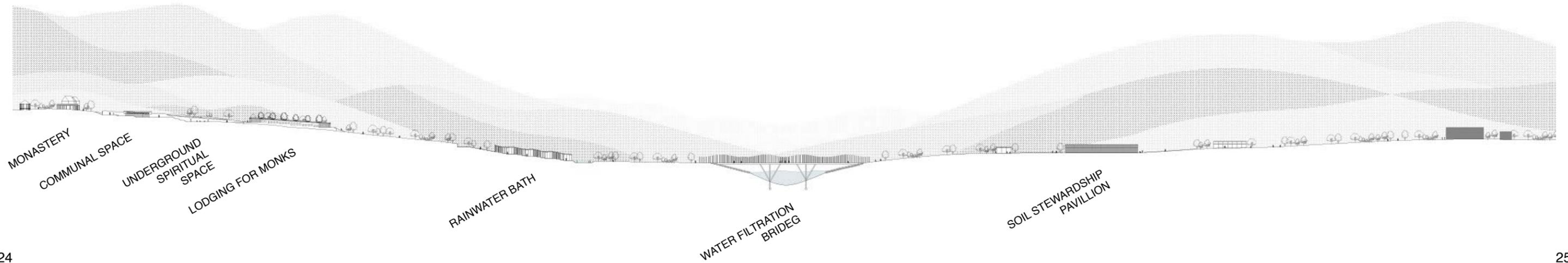
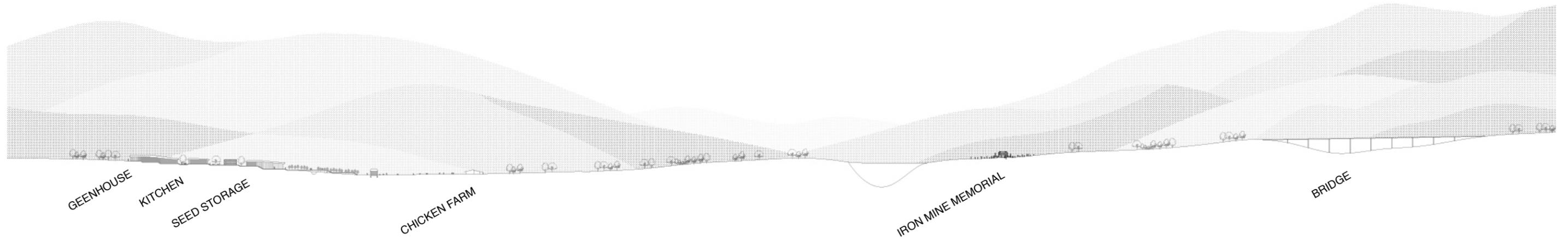
GEENHOUSE & KITCHEN



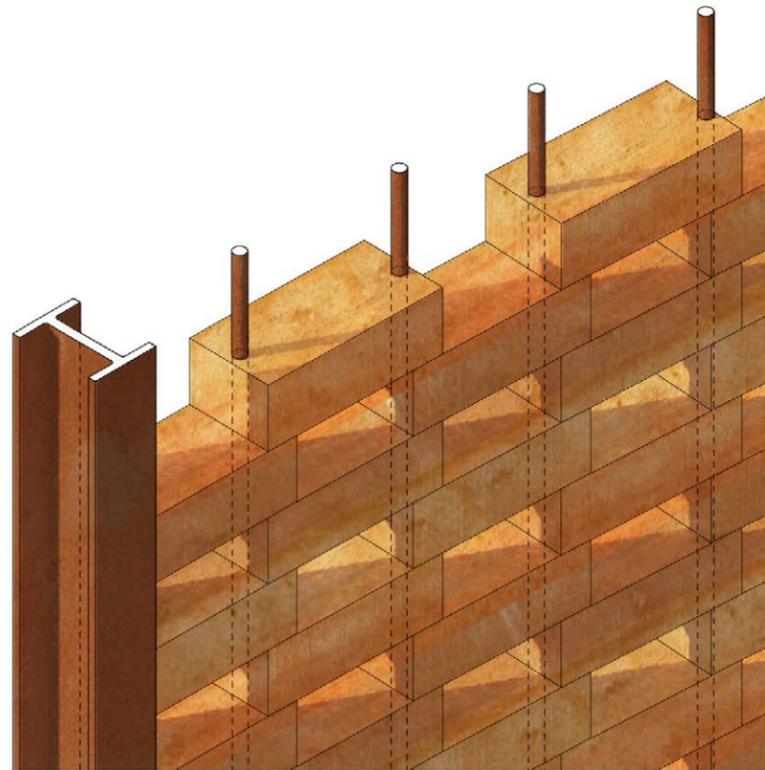
LODGING FOR MONKS



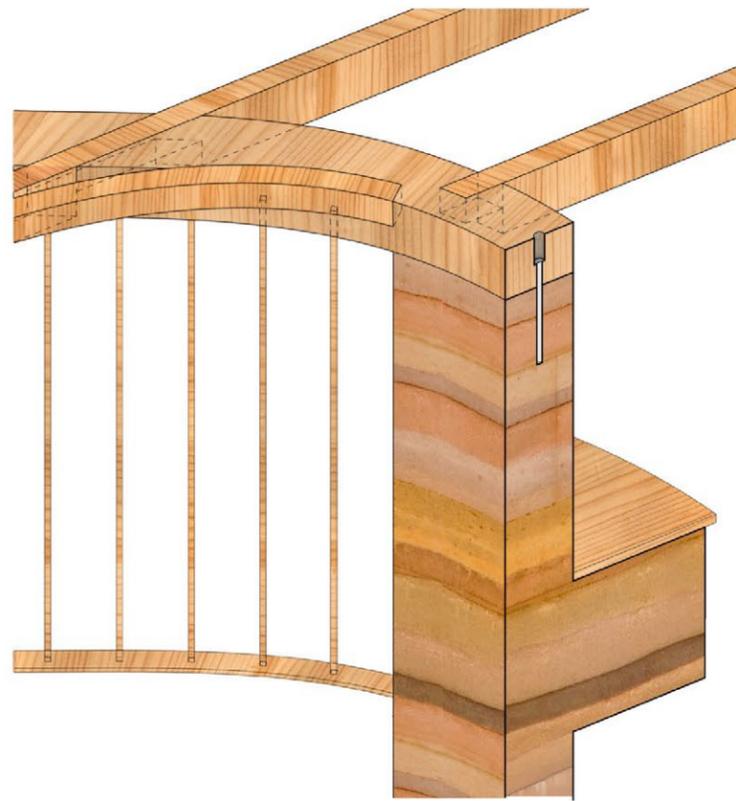
SOIL STEWARDSHIP PAVILLION



Corten Steel + Rammed Earth

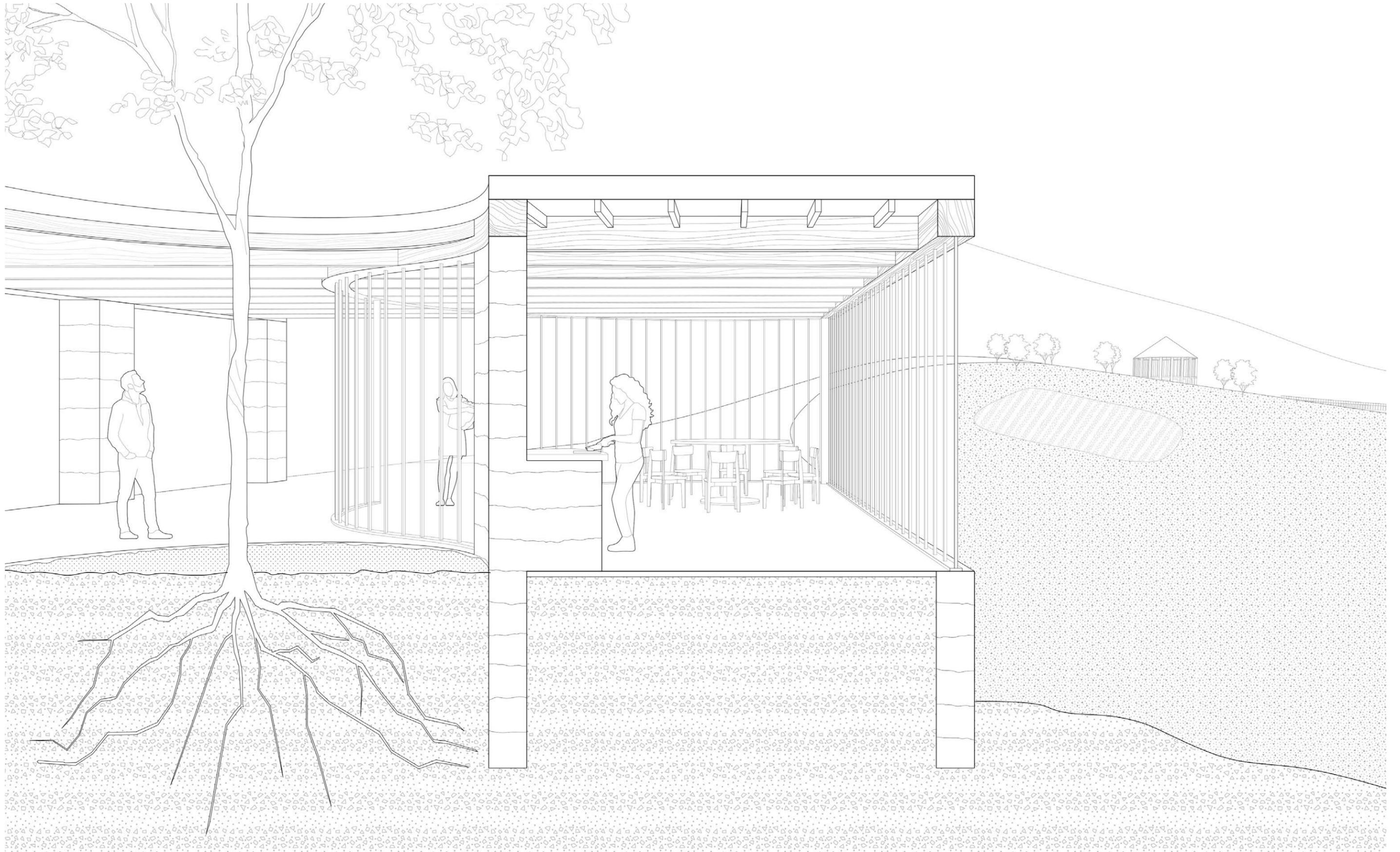


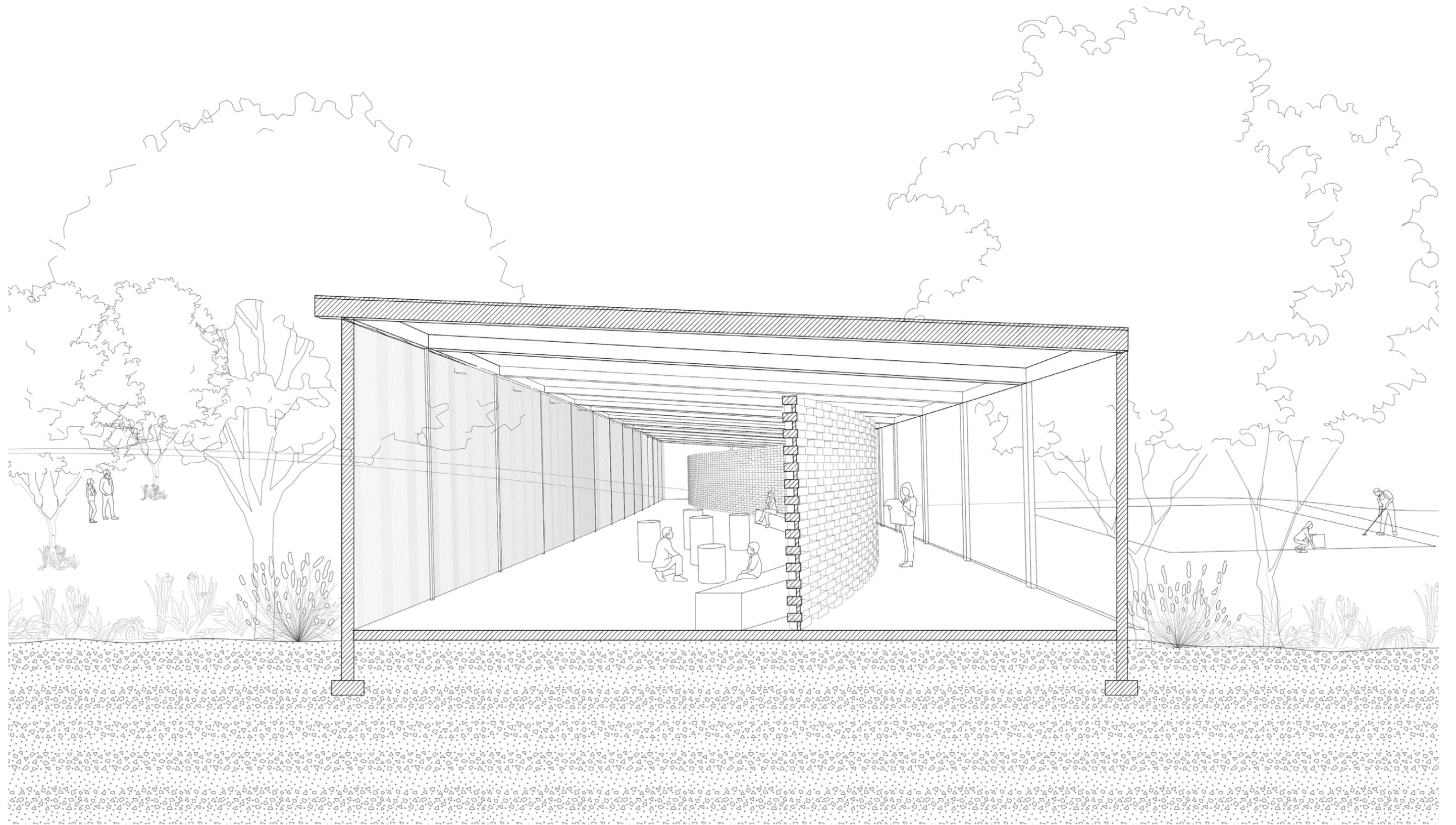
Wood + Rammed Earth

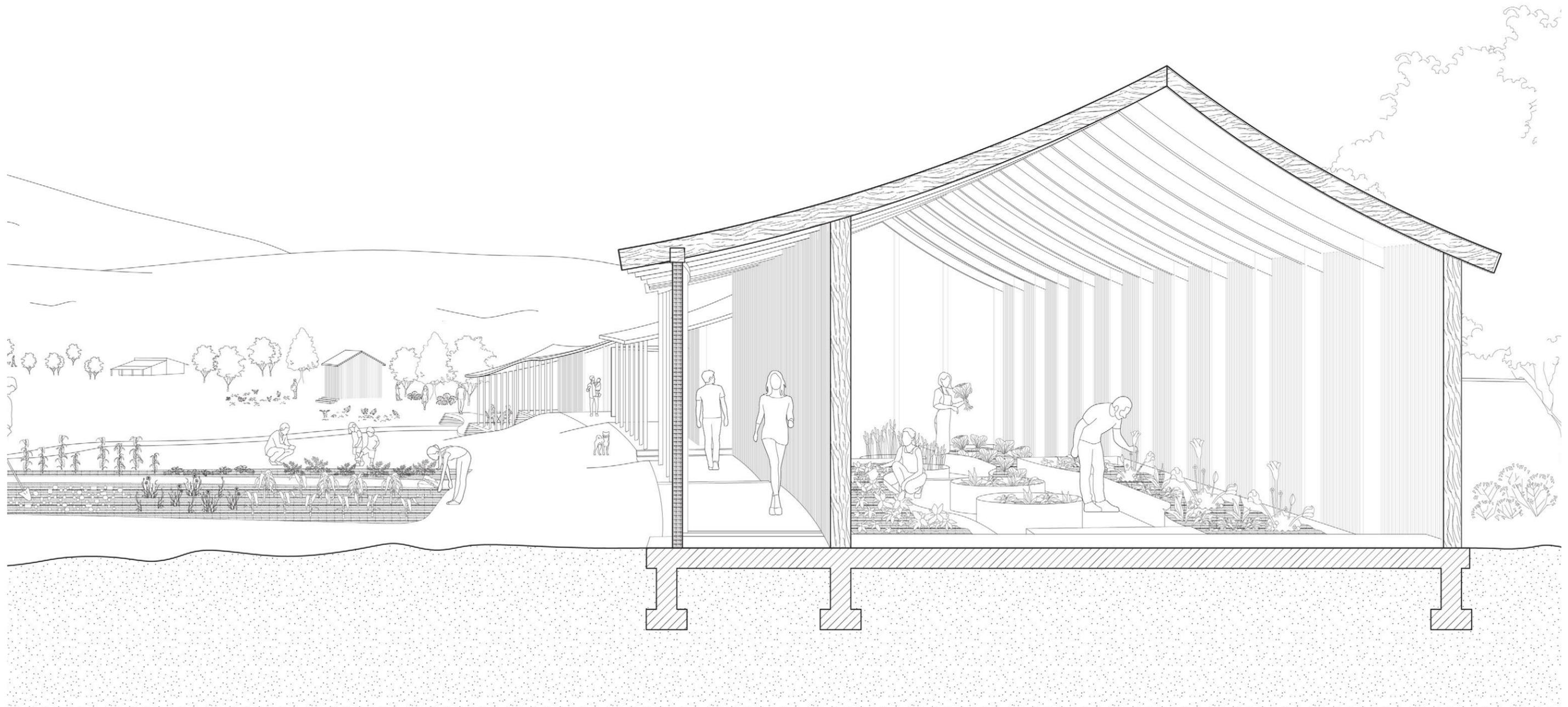


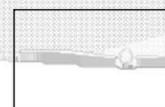
Corten Steel + Wood



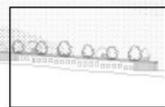














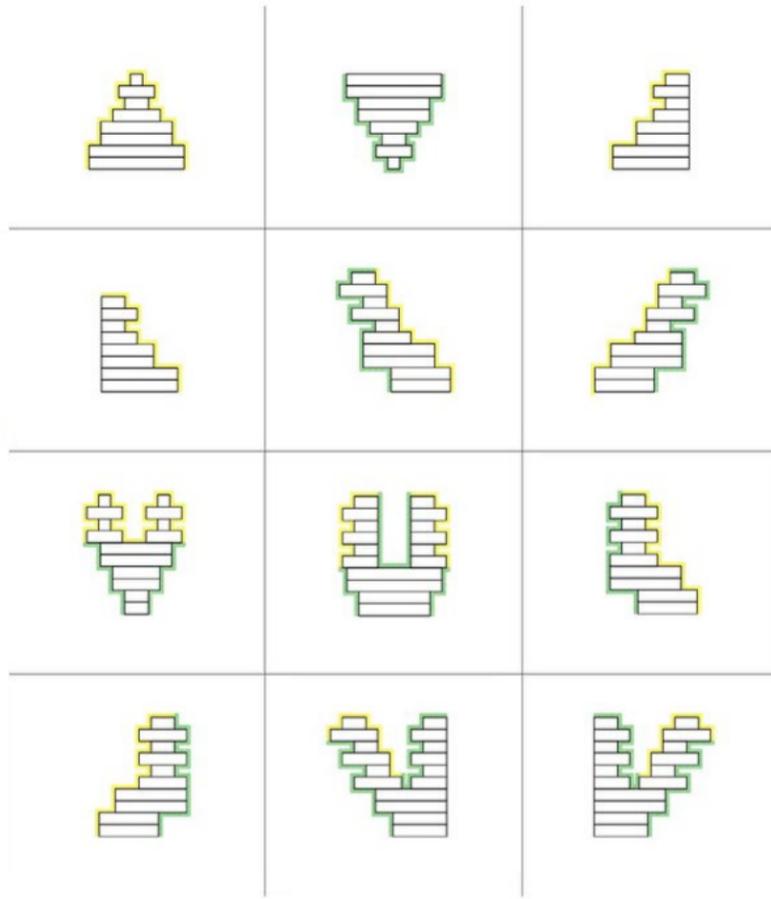
## COURTYARD DIALOGUE

Columbia GSAPP, Fall 2020  
Core Studio III  
Critic: Galia Solomonoff  
Collaborator: Danielle Nir

Housing now, more than ever, requires added access to the outdoors. The project tackles this current need through the idea of fragmentation at both the urban and unit scale. Eight types of standardized housing units, ranging from one to four bedroom flats and duplexes, are stacked strategically to provide private terraces, while courtyards are carved out of the building's mass to allow for shared outdoor spaces.

The building's mass was designed iteratively using a sectional analysis of different unit aggregation strategies to create a seamless yet alternating sequence of exposed and sheltered courtyards. Elevated streets connect the housing units to the courtyards bringing about a rich private-public rhythm.





**This Page**

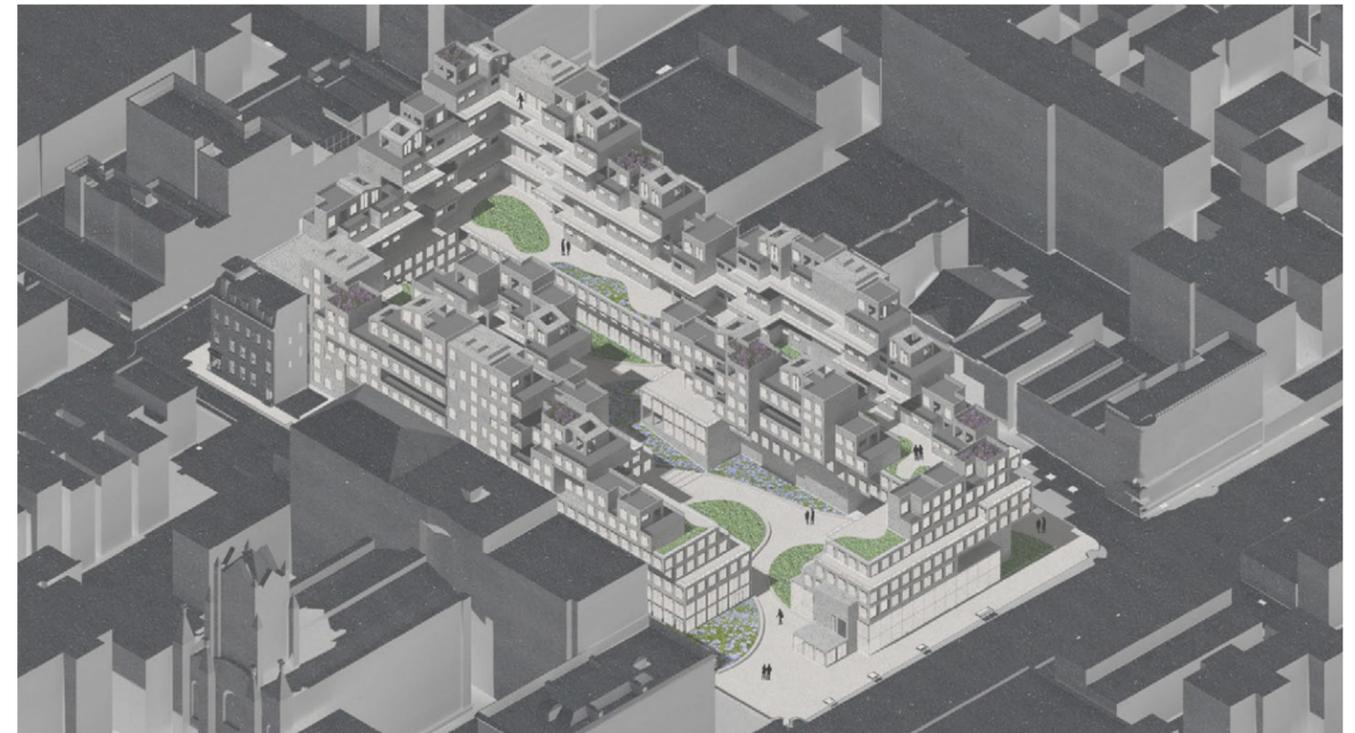
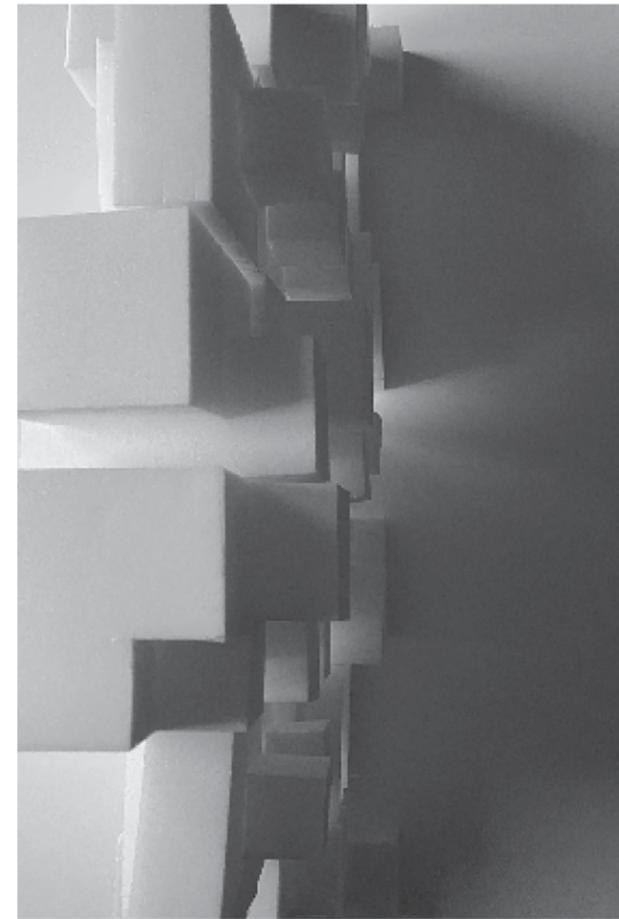
Top: Catalogue of section cuts analyzing conditions of exposure and shelter produced by aggregation of units.

Bottom: Area of Exposure/ Shelter Diagram

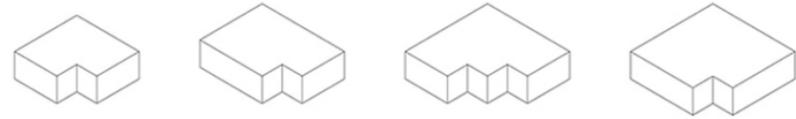
**Opposite Page**

Top: Massing model testing unit aggregation, porosity and lighting.

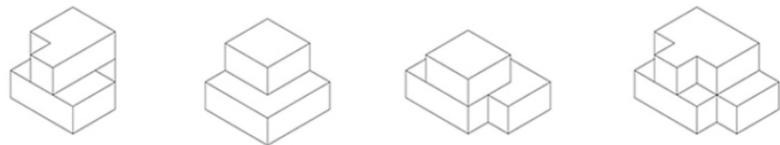
Bottom: Axon Collage







Single Level Units



Double Level Units



1 Bedroom

2 Bedroom

3 Bedroom

4 Bedroom



**This Page**

Catalogue of 8 housing unit types: single to four bedroom and single and double level.

**Opposite Page**

Top: Duplex Unit Upper floor  
Bottom: Courtyard

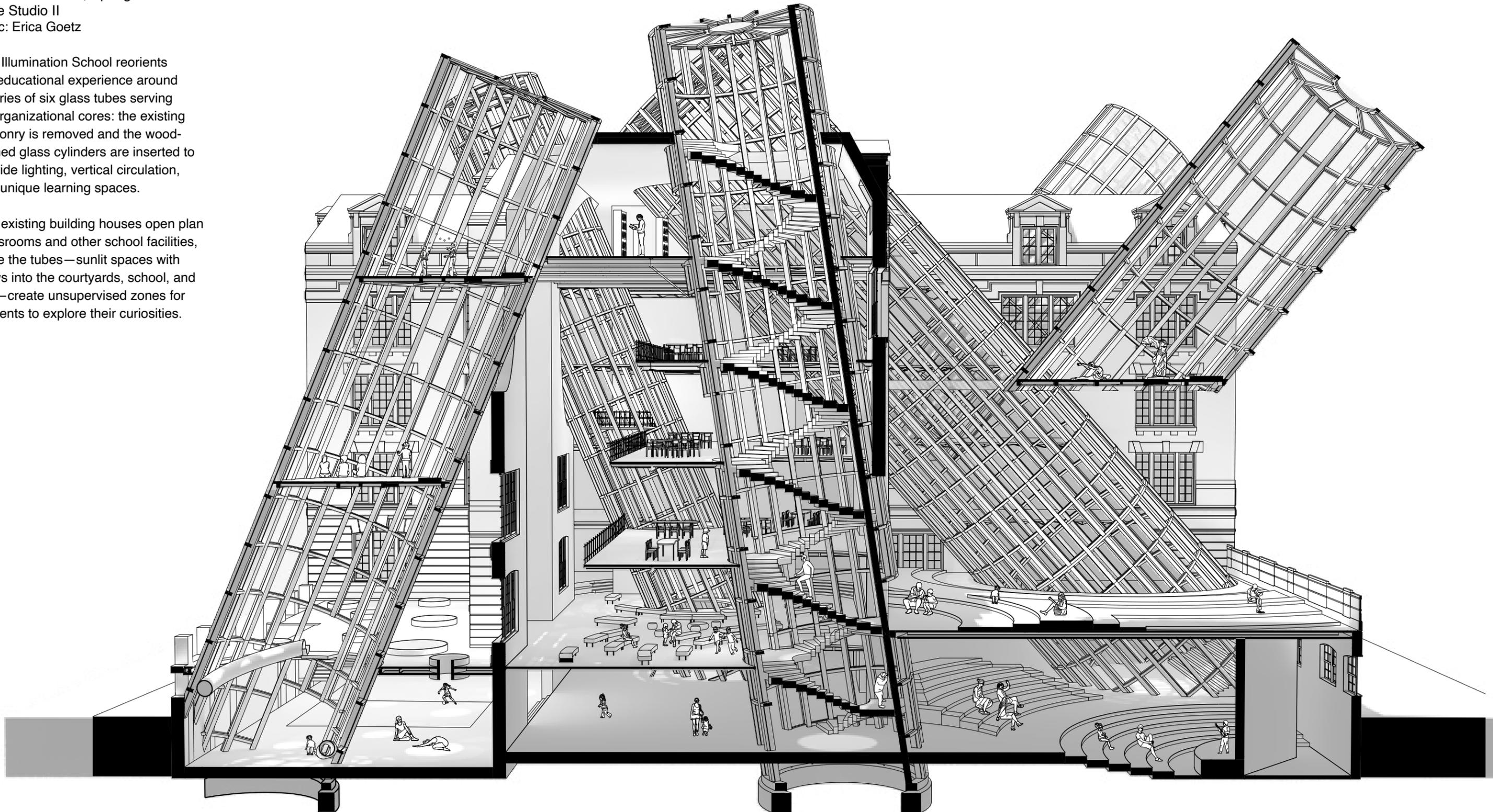


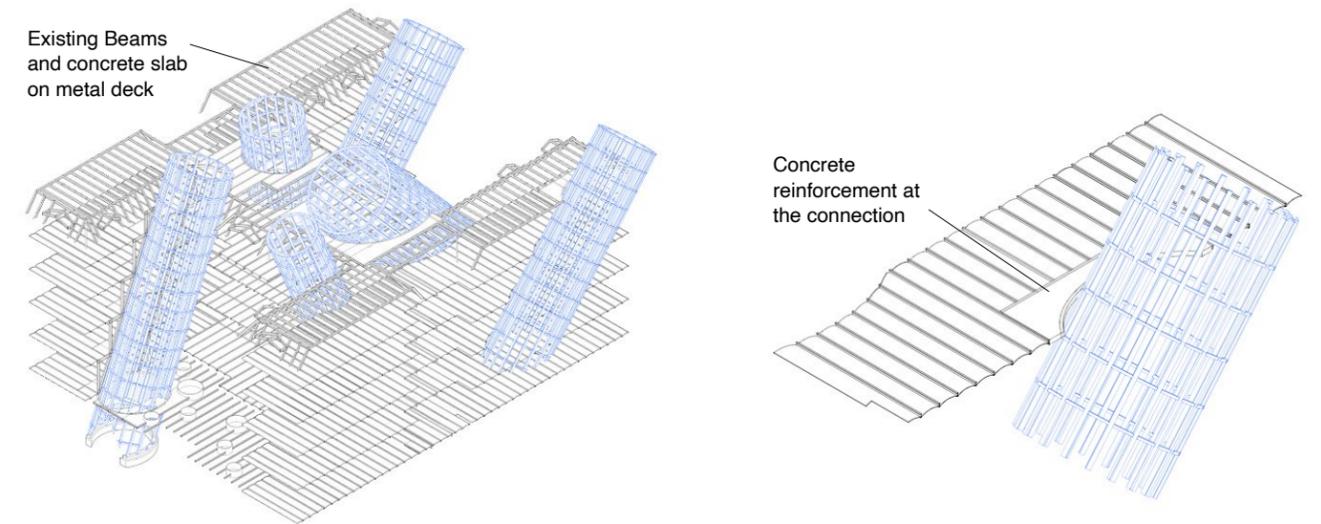
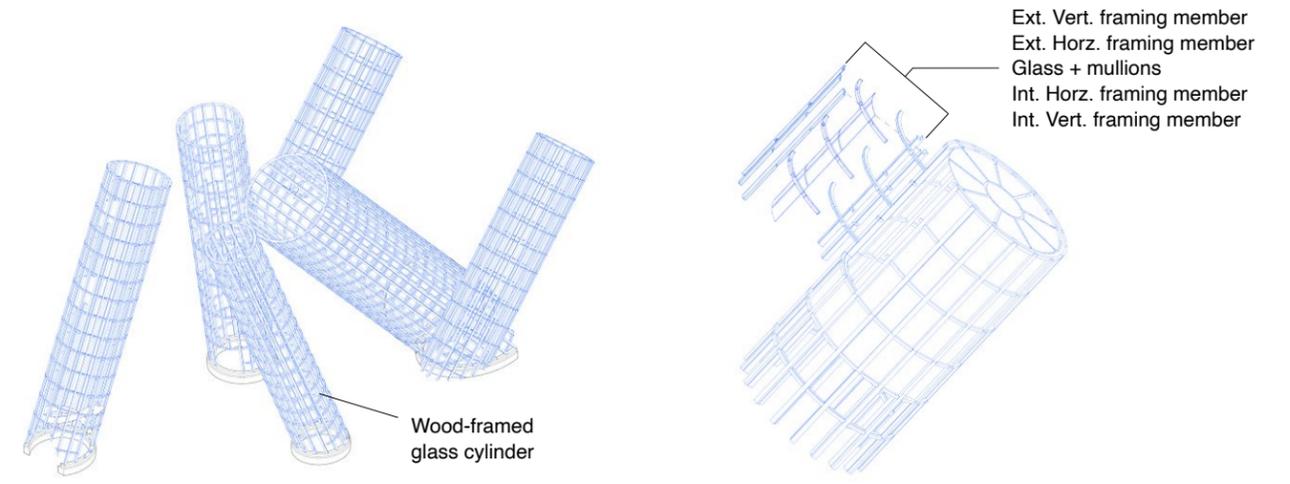
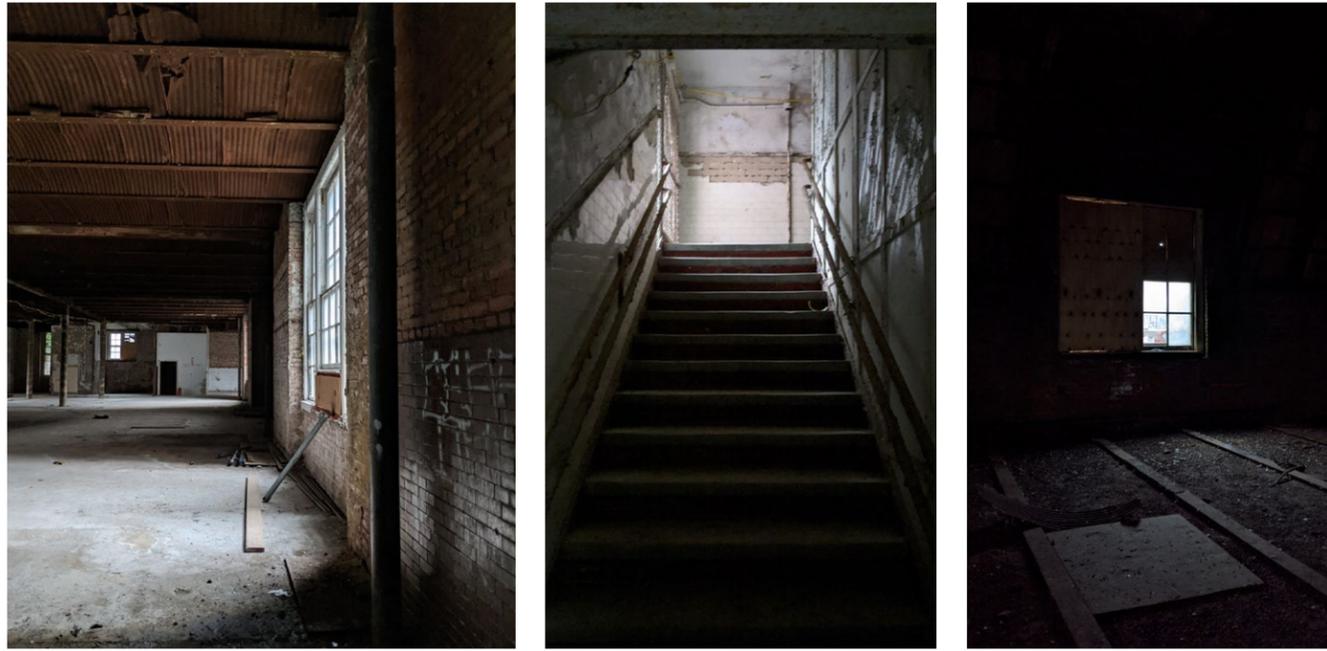
## ILLUMINATION SCHOOL

Columbia GSAPP, Spring 2020  
Core Studio II  
Critic: Erica Goetz

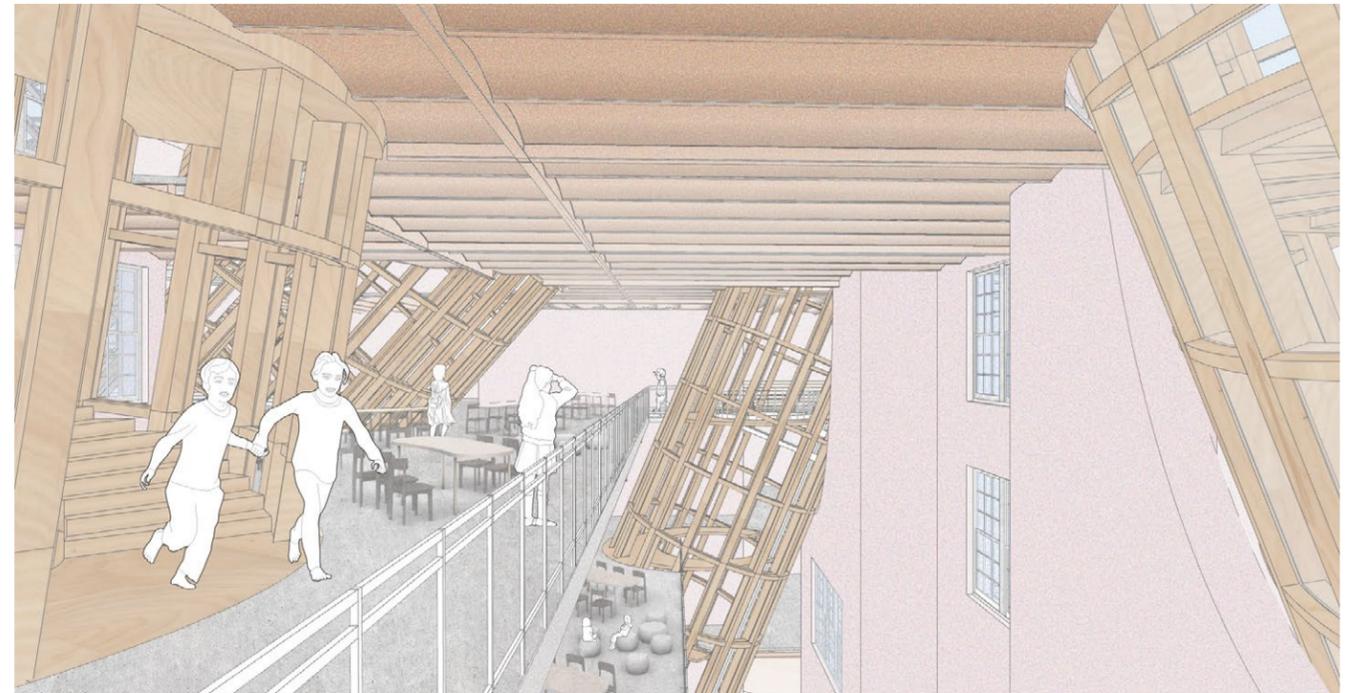
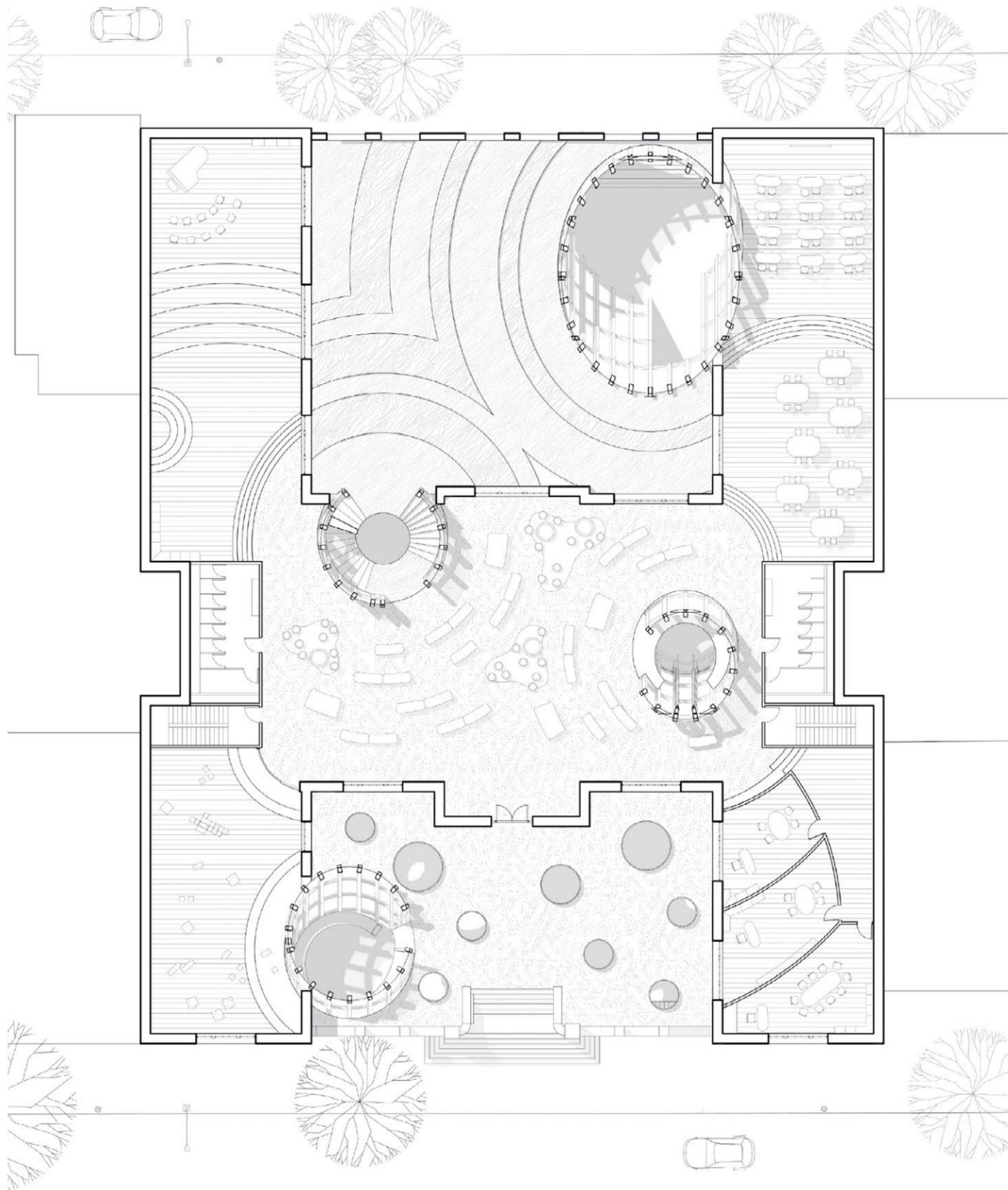
The Illumination School reorients the educational experience around a series of six glass tubes serving as organizational cores: the existing masonry is removed and the wood-framed glass cylinders are inserted to provide lighting, vertical circulation, and unique learning spaces.

The existing building houses open plan classrooms and other school facilities, while the tubes—sunlit spaces with views into the courtyards, school, and city—create unsupervised zones for students to explore their curiosities.





**Opposite Page**  
 Top: Photos of Existing PS 12 Elementary School  
 Bottom: Sunlight Exposure Analysis model  
**This Page**  
 Structural diagrams of wood-framed glass cylinder and existing structure



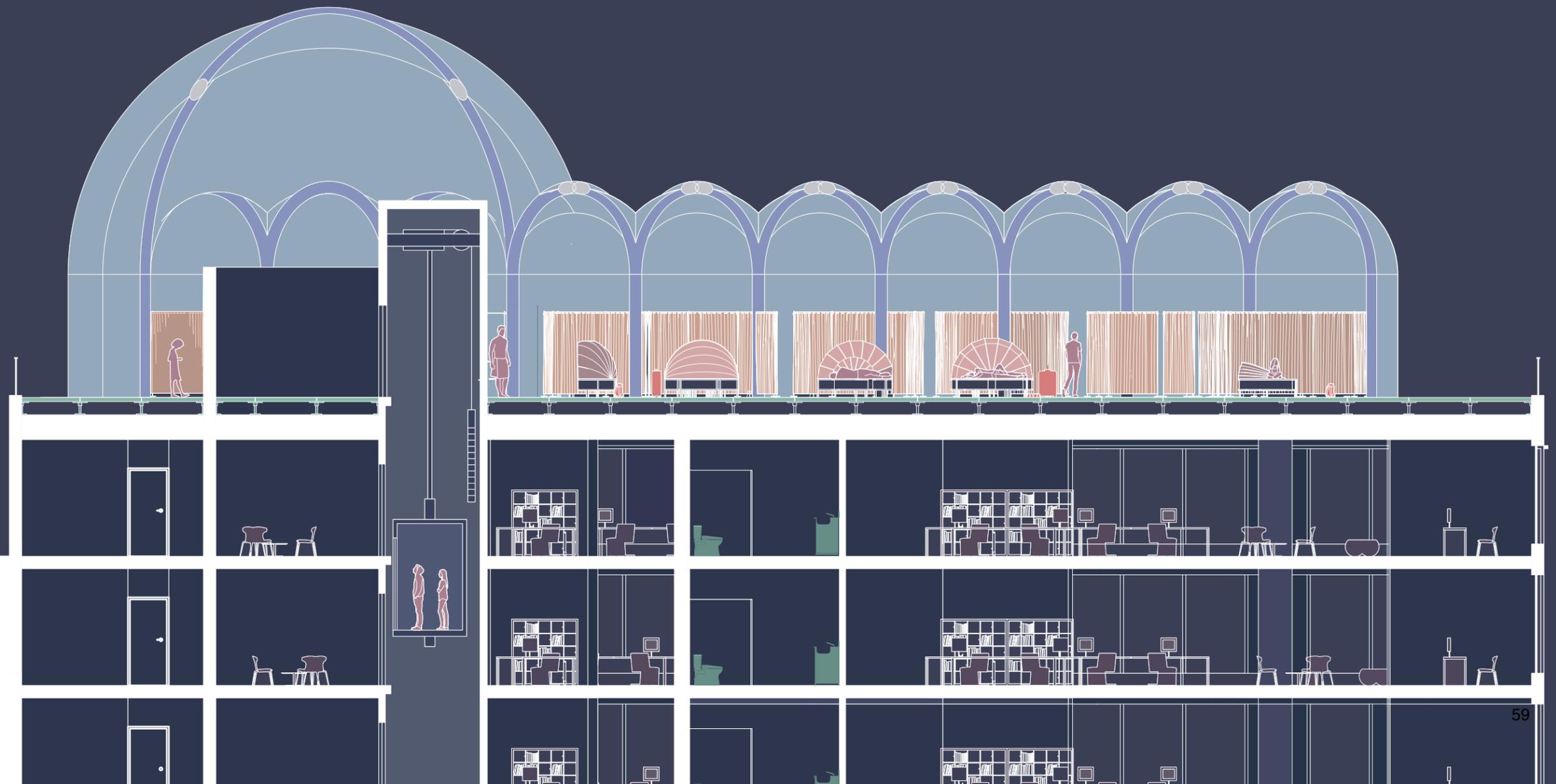
## URBAN CAMPSITE

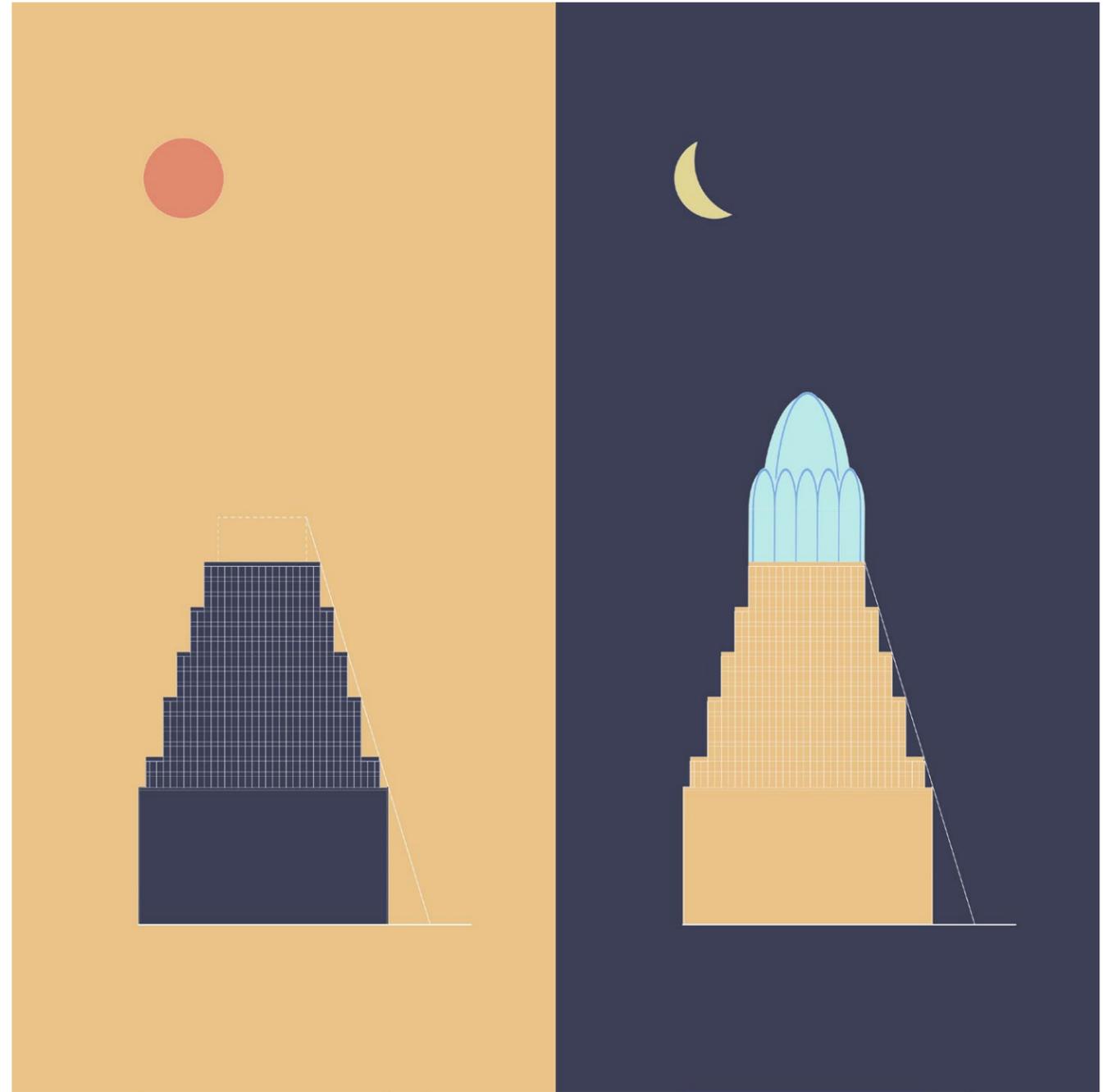
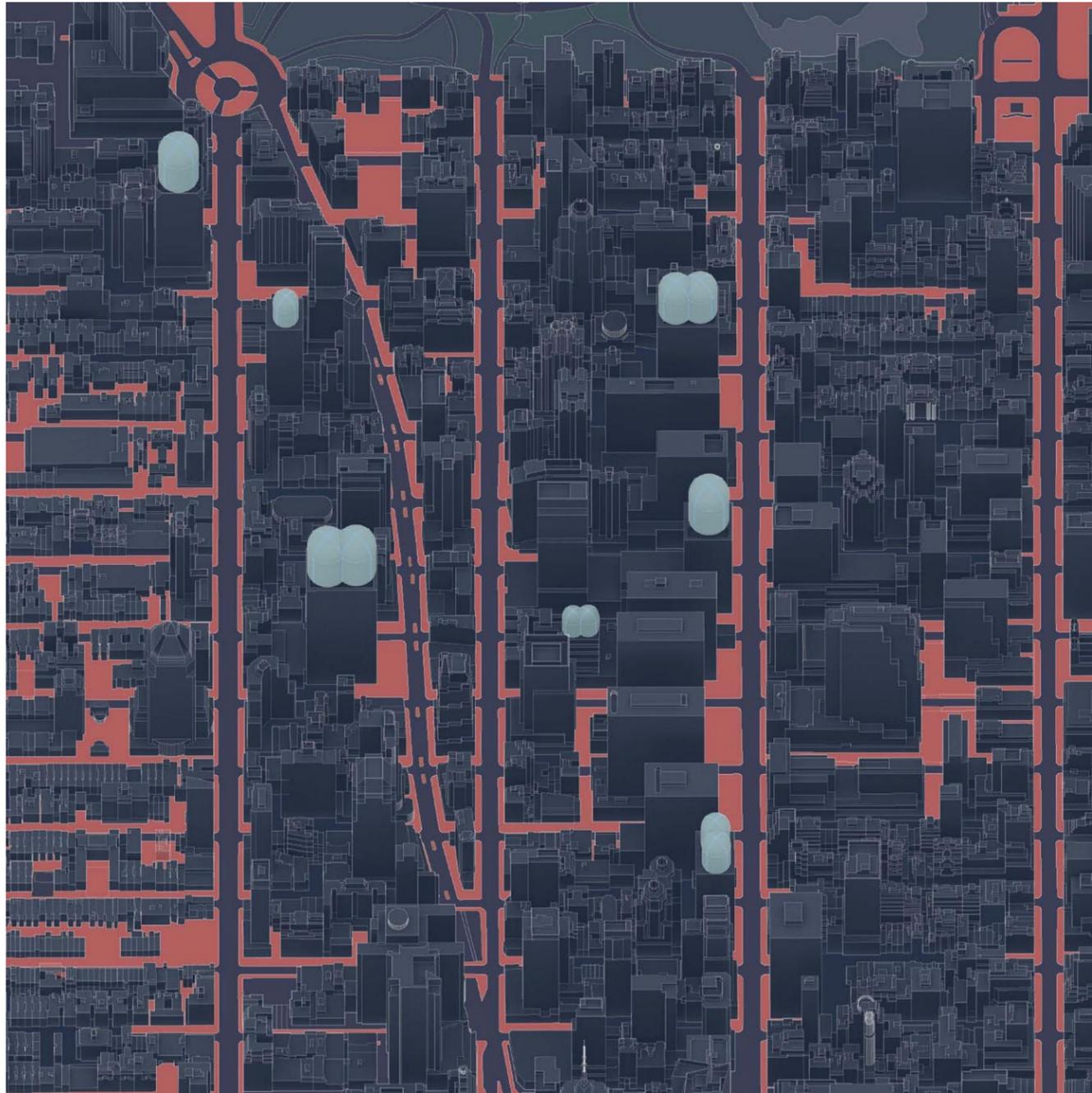
Columbia GSAPP, Fall 2019  
Core Studio I  
Critic: Ana Puigjaner

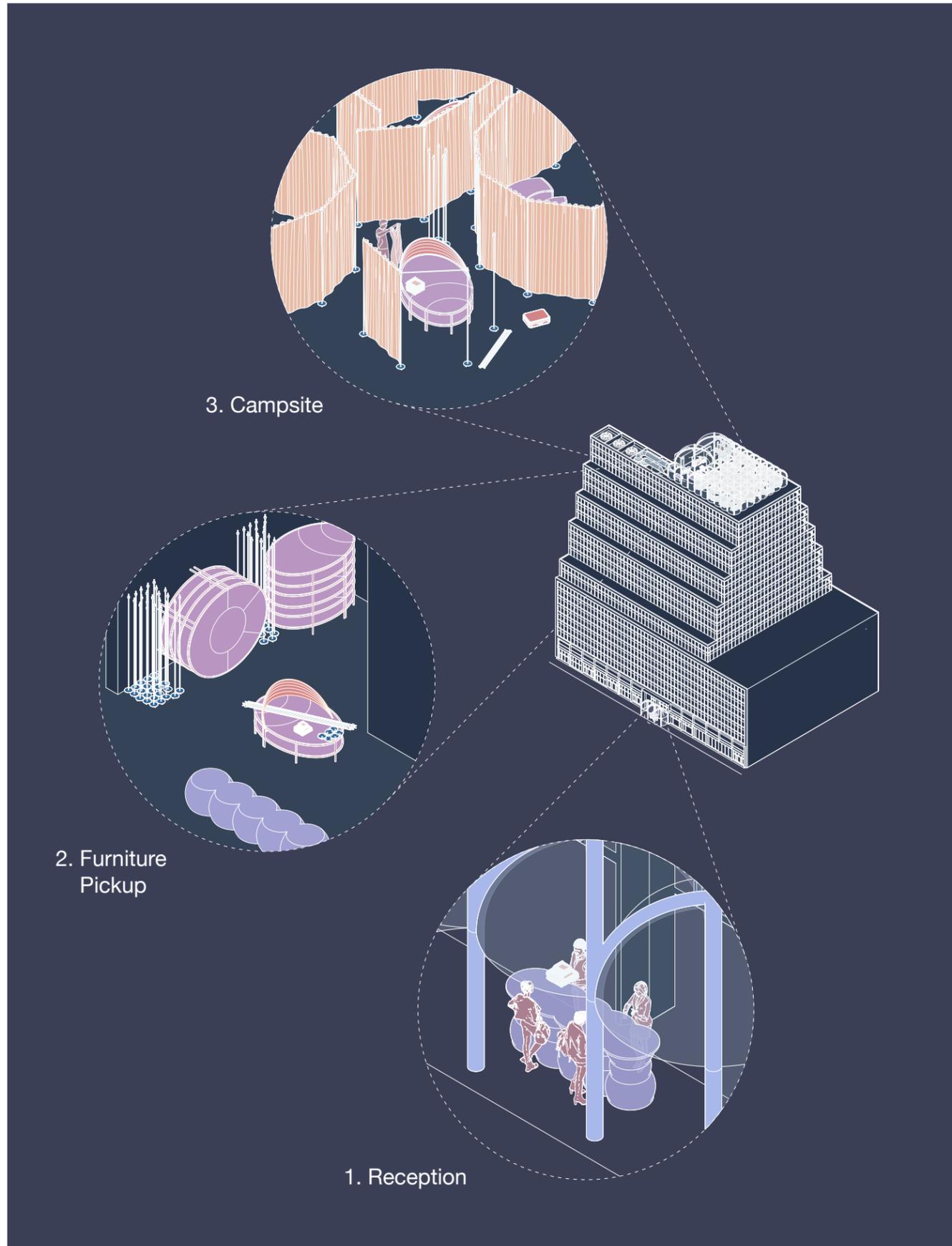
This project attempts to generate new kinds of social interactions in the hyper-congested and dehumanizing urban condition of Manhattan by turning the rooftop of office buildings into urban campsites using inflatable structures.

Inside the inflatable structure, users enclose and claim their space using curtain stands and cloths. This act of claiming their own space in this public space forces the users to recognize the existence of others in the space and establish certain spatial relationship to one another.

The inflatable structure is deployed only during night and retracted during day, and by this act of disappearance, this intervention does not impede the sunlight reaching the ground level and avoids contravention of the building code while activating the supposedly forbidden and untouchable space in the zoning envelope.





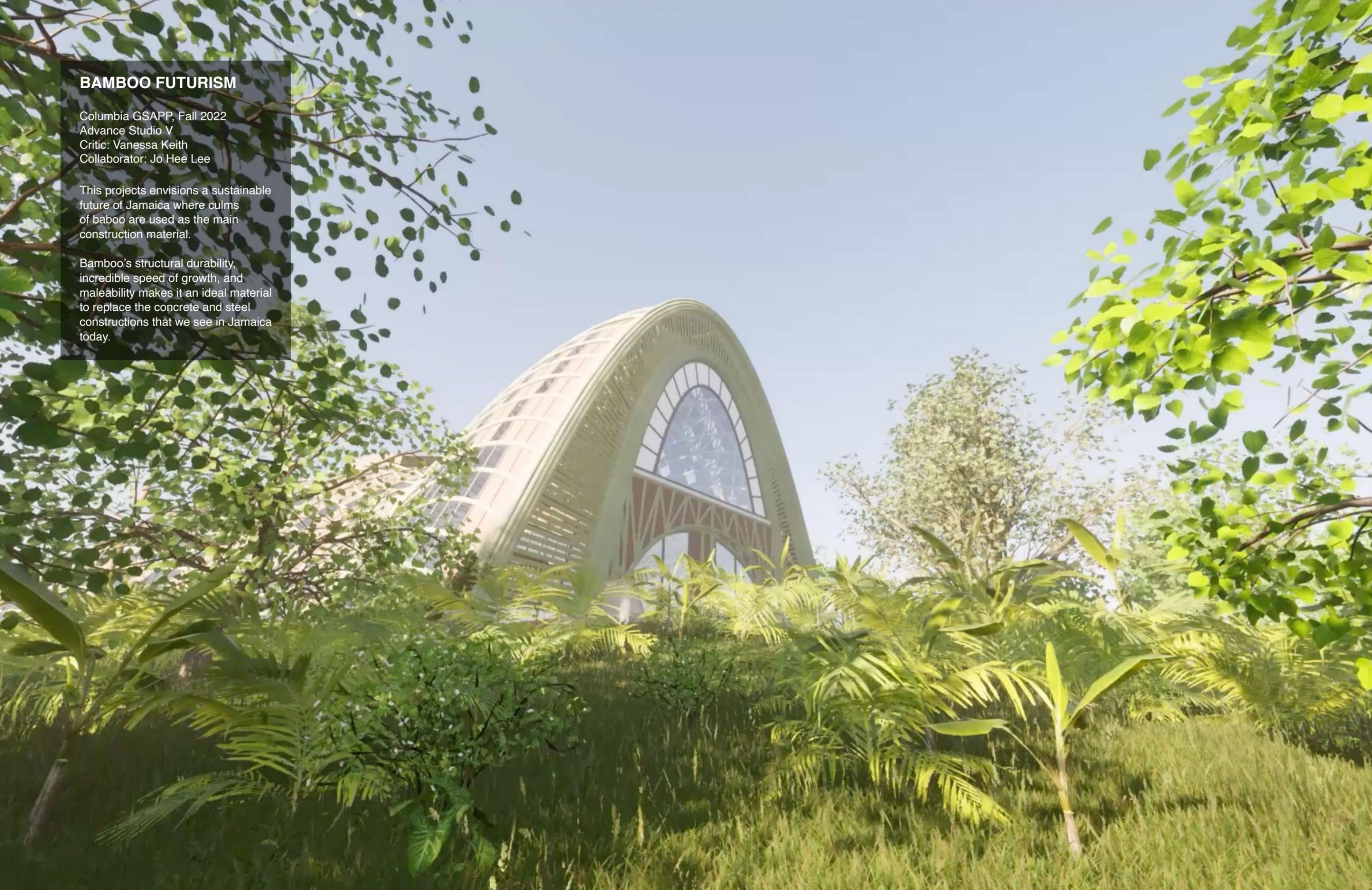


## BAMBOO FUTURISM

Columbia GSAPP, Fall 2022  
Advance Studio V  
Critic: Vanessa Keith  
Collaborator: Jo Hee Lee

This project envisions a sustainable future of Jamaica where culms of bamboo are used as the main construction material.

Bamboo's structural durability, incredible speed of growth, and malleability makes it an ideal material to replace the concrete and steel constructions that we see in Jamaica today.









# DESERT OASIS

Columbia GSAPP, Spring 2021

Techniques of Ultrareal

Critic: Joseph Brennan, Phillip Crupi

Collaborators: Ryan Alexander, Yifei Yuan





PRICE	INCLUDE	201 VAT	PRICE	INCLUDE
218	LARGE THERMOS	410	218	LARGE THERMOS
232	SMALL THERMOS	425	232	SMALL THERMOS
248	VEGETARIAN PIS	440	248	VEGETARIAN PIS
262	SMALL THERMOS	455	262	SMALL THERMOS
278	LARGE THERMOS	470	278	LARGE THERMOS
292	SMALL THERMOS	485	292	SMALL THERMOS
308	VEGETARIAN PIS	500	308	VEGETARIAN PIS
322	SMALL THERMOS	515	322	SMALL THERMOS
338	LARGE THERMOS	530	338	LARGE THERMOS
352	SMALL THERMOS	545	352	SMALL THERMOS
368	VEGETARIAN PIS	560	368	VEGETARIAN PIS
382	SMALL THERMOS	575	382	SMALL THERMOS
398	LARGE THERMOS	590	398	LARGE THERMOS
412	SMALL THERMOS	605	412	SMALL THERMOS
428	VEGETARIAN PIS	620	428	VEGETARIAN PIS
442	SMALL THERMOS	635	442	SMALL THERMOS
458	LARGE THERMOS	650	458	LARGE THERMOS
472	SMALL THERMOS	665	472	SMALL THERMOS
488	VEGETARIAN PIS	680	488	VEGETARIAN PIS
502	SMALL THERMOS	695	502	SMALL THERMOS
518	LARGE THERMOS	710	518	LARGE THERMOS
532	SMALL THERMOS	725	532	SMALL THERMOS
548	VEGETARIAN PIS	740	548	VEGETARIAN PIS
562	SMALL THERMOS	755	562	SMALL THERMOS
578	LARGE THERMOS	770	578	LARGE THERMOS
592	SMALL THERMOS	785	592	SMALL THERMOS
608	VEGETARIAN PIS	800	608	VEGETARIAN PIS
622	SMALL THERMOS	815	622	SMALL THERMOS
638	LARGE THERMOS	830	638	LARGE THERMOS
652	SMALL THERMOS	845	652	SMALL THERMOS
668	VEGETARIAN PIS	860	668	VEGETARIAN PIS
682	SMALL THERMOS	875	682	SMALL THERMOS
698	LARGE THERMOS	890	698	LARGE THERMOS
712	SMALL THERMOS	905	712	SMALL THERMOS
728	VEGETARIAN PIS	920	728	VEGETARIAN PIS
742	SMALL THERMOS	935	742	SMALL THERMOS
758	LARGE THERMOS	950	758	LARGE THERMOS
772	SMALL THERMOS	965	772	SMALL THERMOS
788	VEGETARIAN PIS	980	788	VEGETARIAN PIS
802	SMALL THERMOS	995	802	SMALL THERMOS
818	LARGE THERMOS	1010	818	LARGE THERMOS
832	SMALL THERMOS	1025	832	SMALL THERMOS
848	VEGETARIAN PIS	1040	848	VEGETARIAN PIS
862	SMALL THERMOS	1055	862	SMALL THERMOS
878	LARGE THERMOS	1070	878	LARGE THERMOS
892	SMALL THERMOS	1085	892	SMALL THERMOS
908	VEGETARIAN PIS	1100	908	VEGETARIAN PIS
922	SMALL THERMOS	1115	922	SMALL THERMOS
938	LARGE THERMOS	1130	938	LARGE THERMOS
952	SMALL THERMOS	1145	952	SMALL THERMOS
968	VEGETARIAN PIS	1160	968	VEGETARIAN PIS
982	SMALL THERMOS	1175	982	SMALL THERMOS
998	LARGE THERMOS	1190	998	LARGE THERMOS

TODAY IS A GOOD DAY

Marlboro

OPEN

