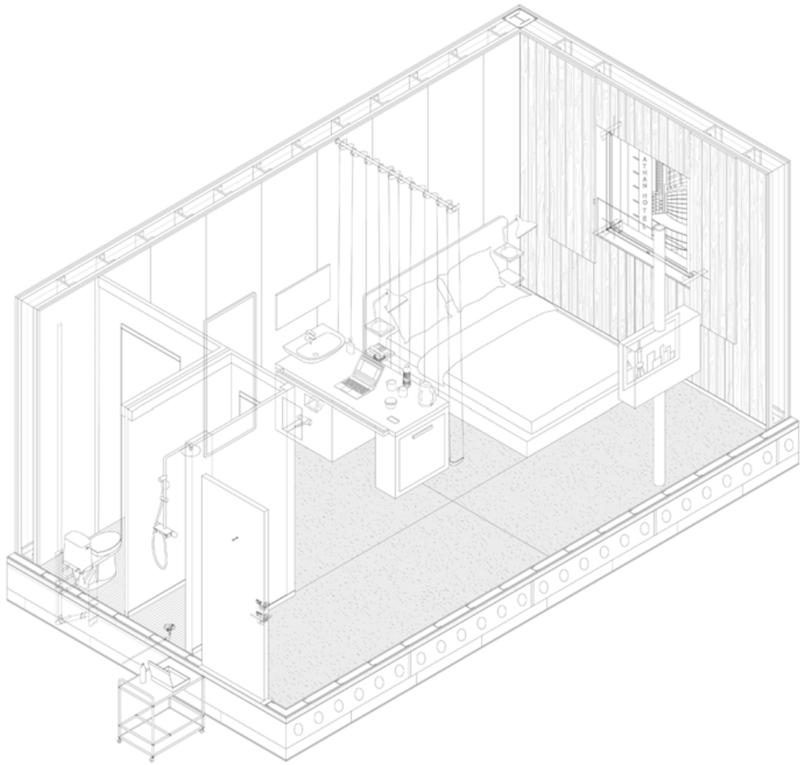
Joanna CHEUNG Ngating

PORTFOLIO

Selected Works 2022-2025



GSAPP 2025

Academic Portfolio

CONTENTS:

CONTENTS

An Architectural Landscape

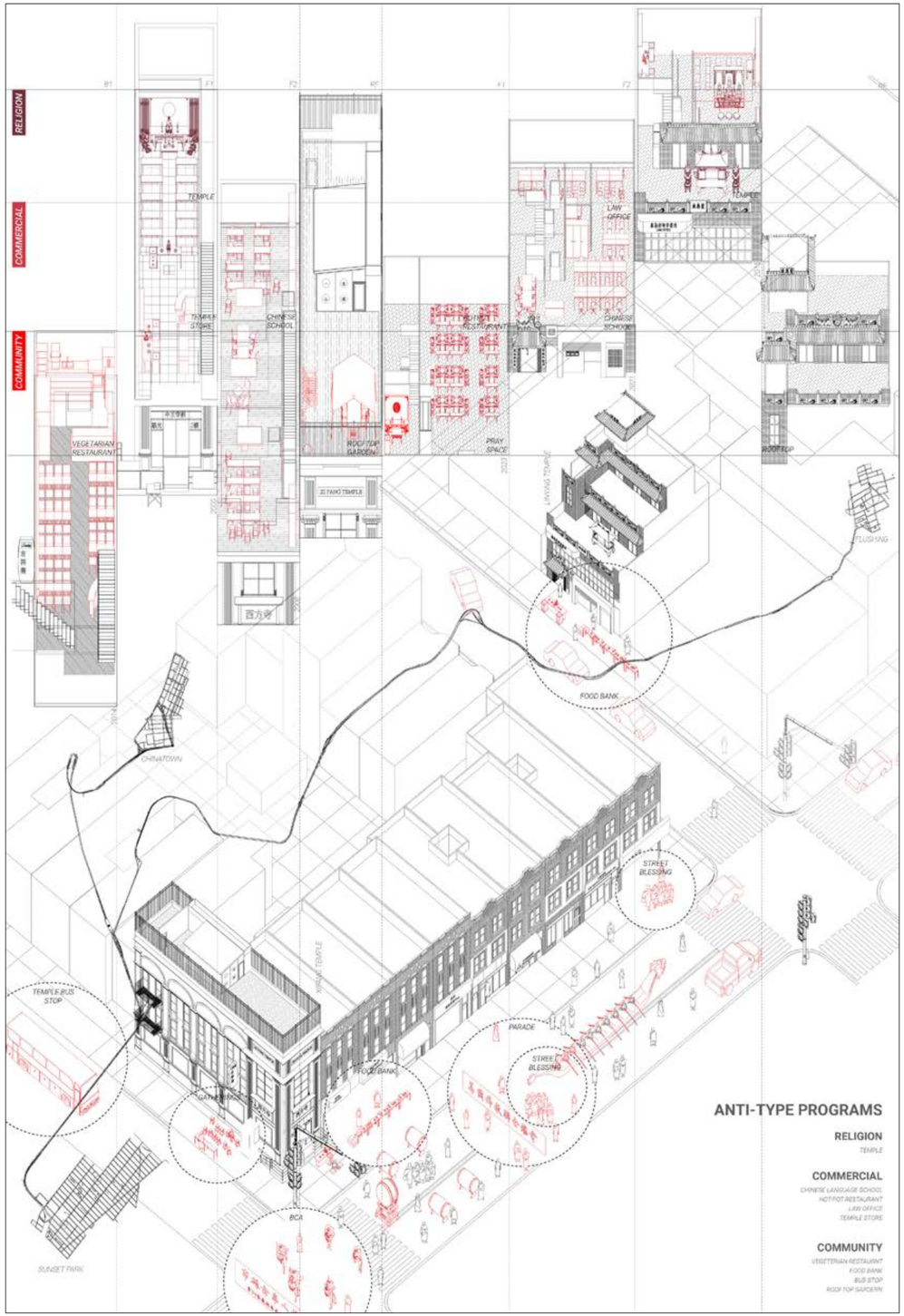
"Farming the Fragmented" explores new food-growing practices in fragmented, peri-urban spaces, integrating food production with community needs. This approach shifts from traditional rural farming, positioning family farmers as key players in land management, ecological balance, and food sovereignty.

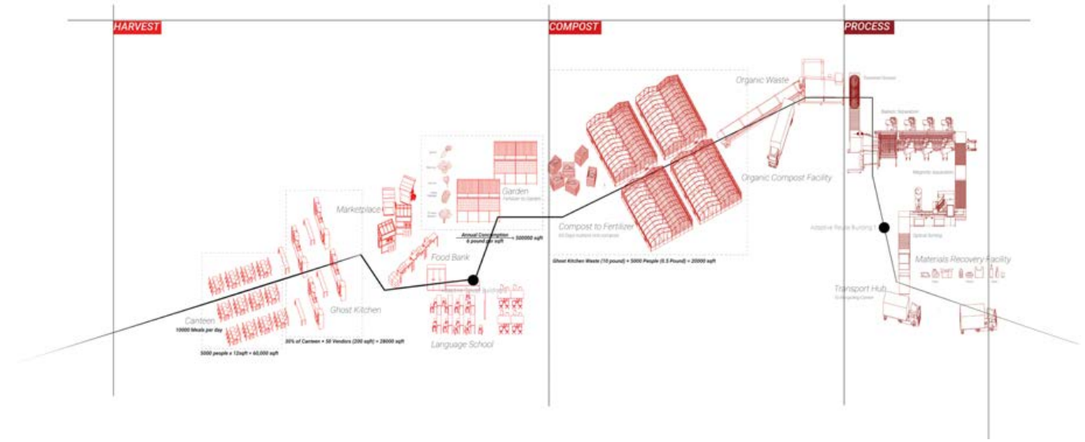
ACADEMIC
I / Farming the Fragmented / 2024

Farming the Fragmented 田舍农场

Led by Phu Hoang
Group Project with Shaoyu Chen

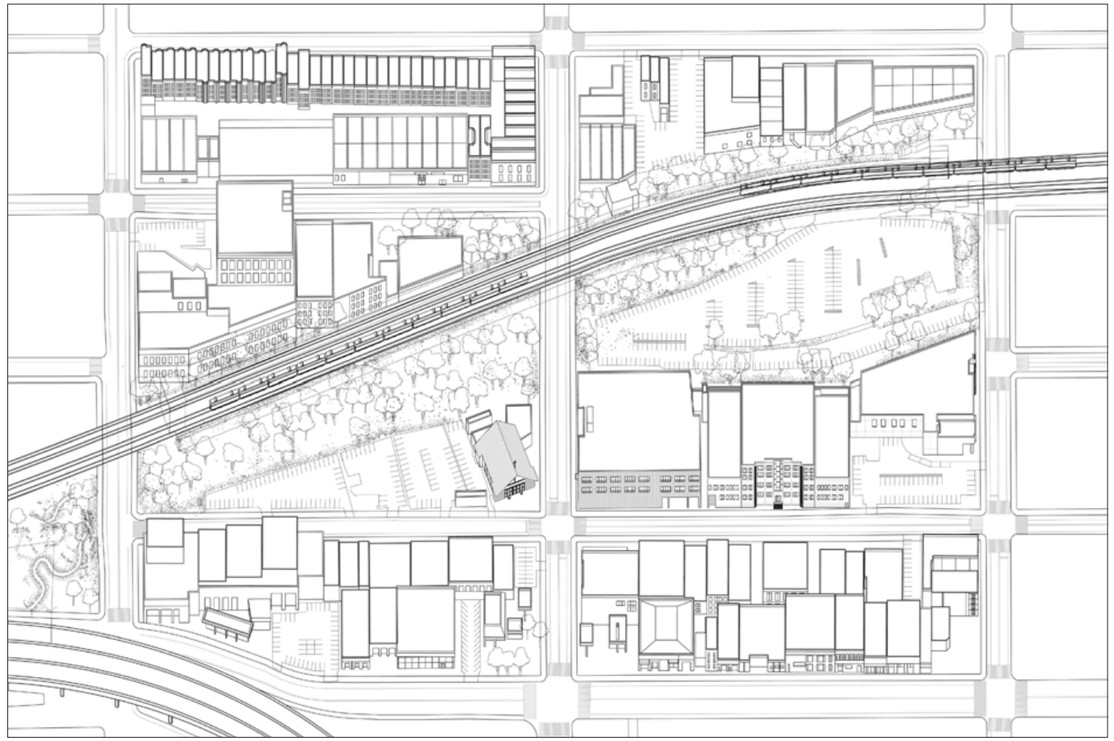
Sunset Park Chinese Immigrant Network





Circular Food Cycle

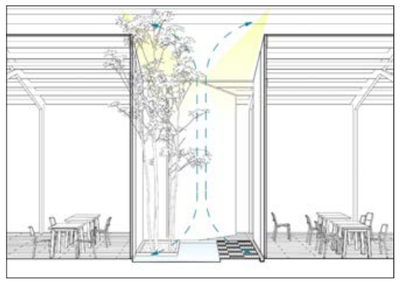
An Experimental food model that is self-reliant: food waste is composted onsite, transformed into fertilizer, used to grow crops locally, and harvested to serve the neighborhood.



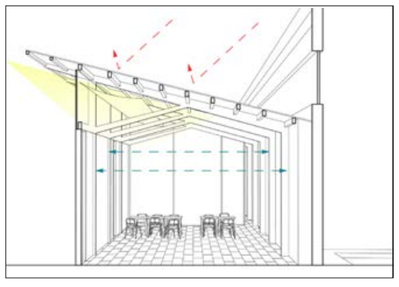
Chosen Site

Selected a site at the intersection of I-278 and the N/W train—a heavily fragmented lot shaped by underutilized parking lots and an inactive church. The linearity of the site offers opportunities for urban-scale mobility and strong connections with culturally significant areas like 7th and 8th Avenues.

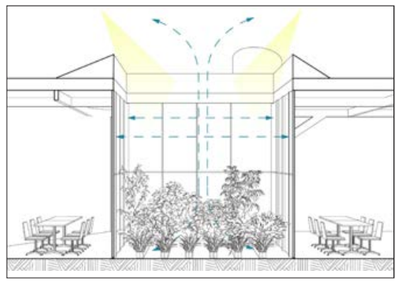
1:20 Detail Model of Revitalising a Forgotten Church



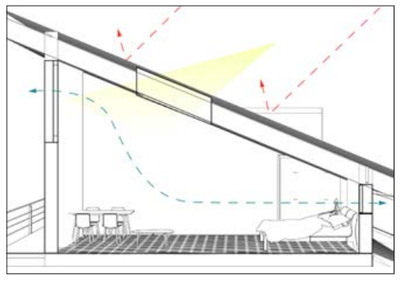
Courtyard Water



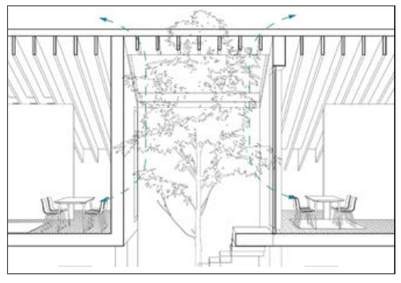
Natural Light and Heat



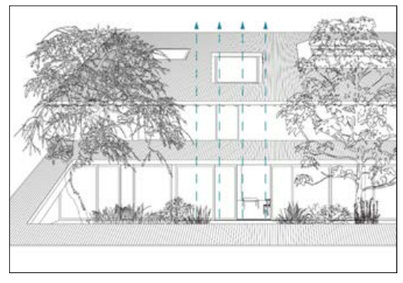
Courtyard farm



Residential Indoor natural vent



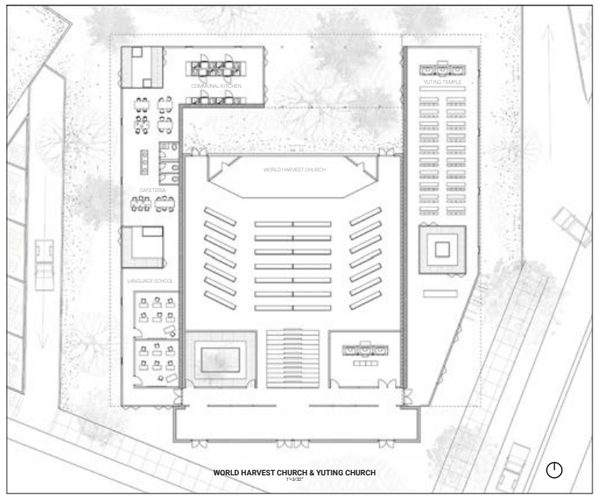
Courtyard circulation/ Natural Vent

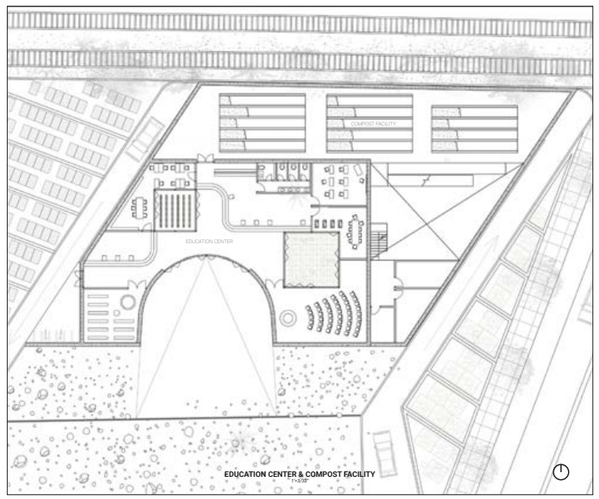


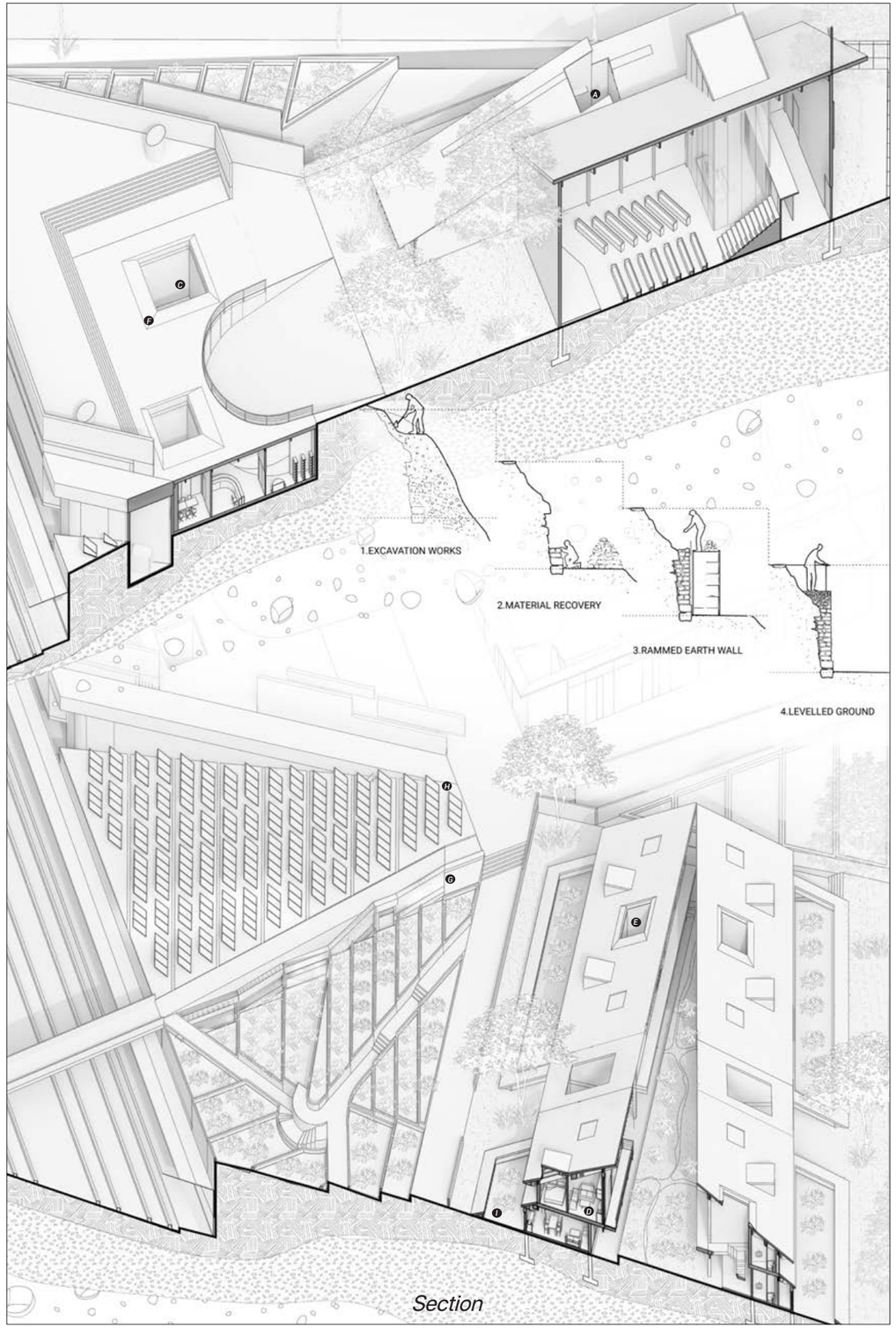
Outdoor Courtyard cooling and shade

Climate Strategies

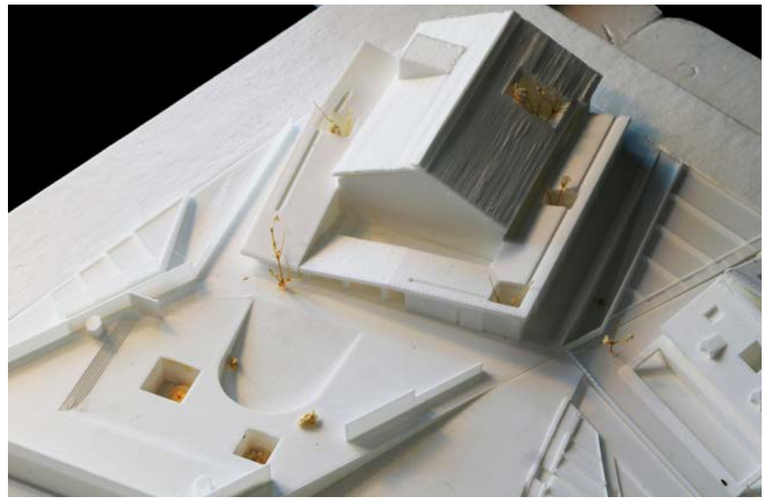
The courtyard is a recurring design element across our project, serving as the central space for shaping thresholds and body spaces. Water elements and plants are integrated to create a microclimate, creating moments of intimate social interactions and communal gatherings. Slanted roofs with openings, and pitched CLT wood structure not only allows natural ventilation and light, but also forms the interior space.

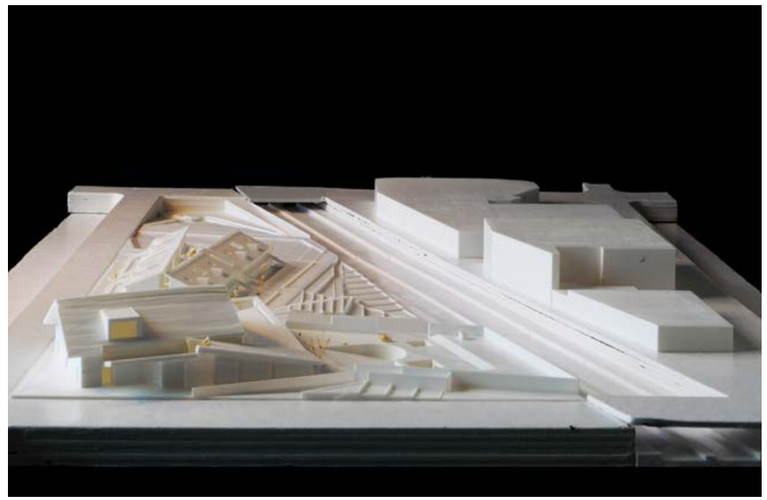


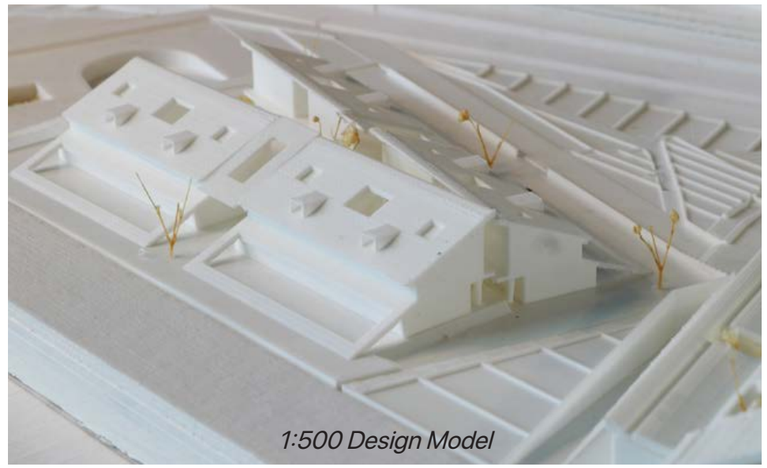




Section



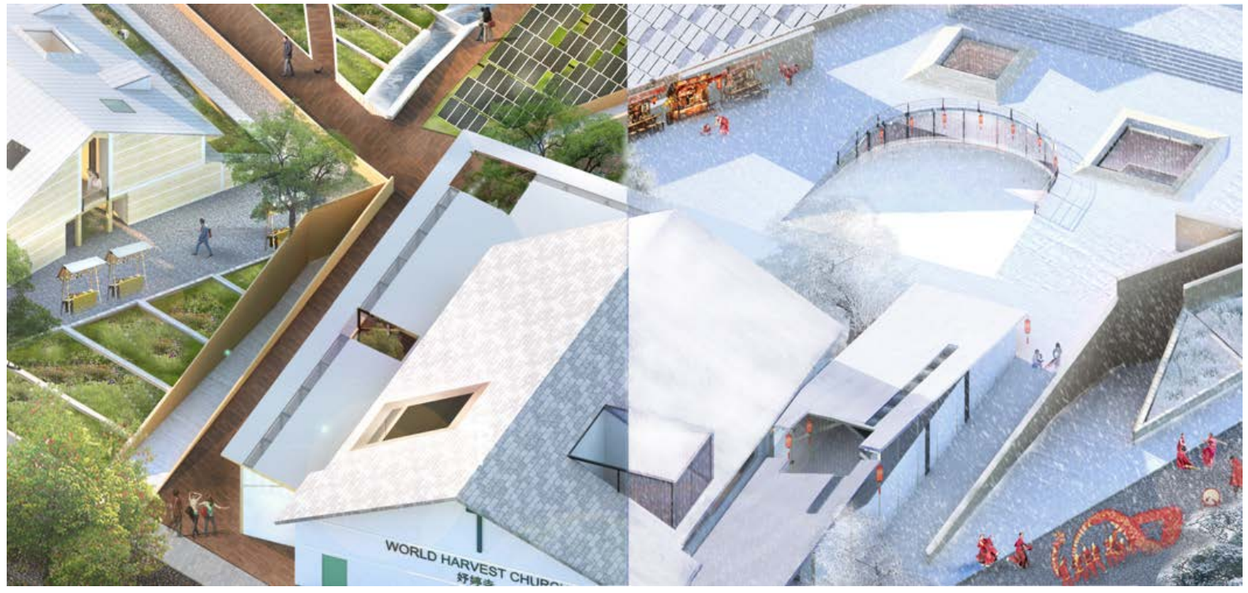




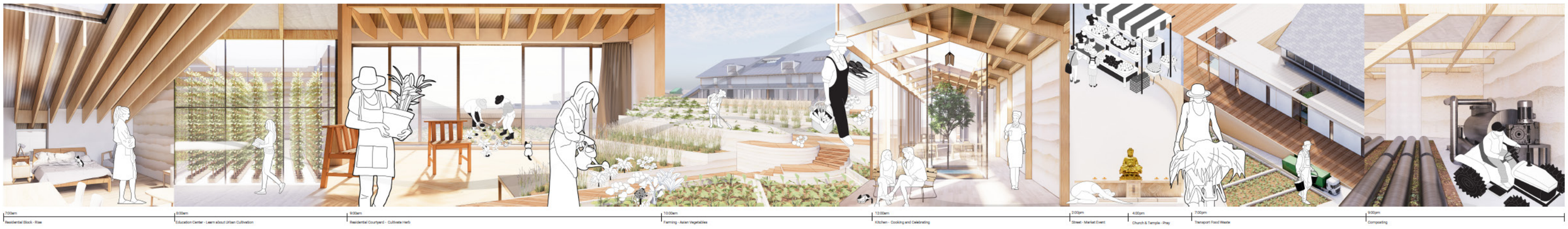
1:500 Design Model

Four Seaons and Moments

FALL — SUMMER



SPRING — WINTER



Day in the Life

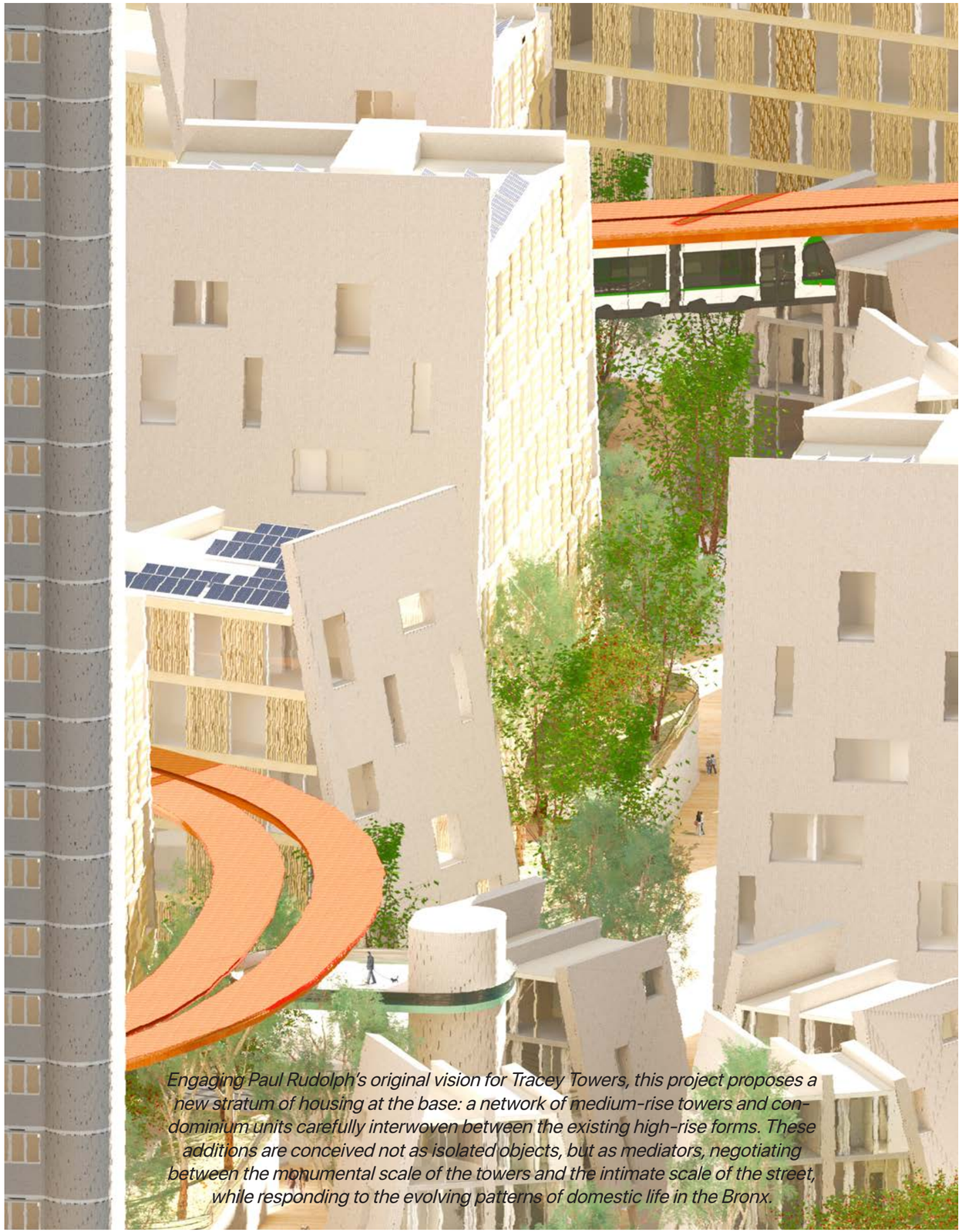
Farmer Jo starts her day in the residential block, then goes to the education center to learn Asian vegetable cultivation. She applies this knowledge in residential courtyards and larger farm plots. During harvest, vegetables go from farm to the temple's vegetarian restaurant, and food waste returns to the composting center, completing the cycle.

ACADEMIC
II / Tracey Plinth Housing / 2025

Tracey Plinth Housing

特雷西座

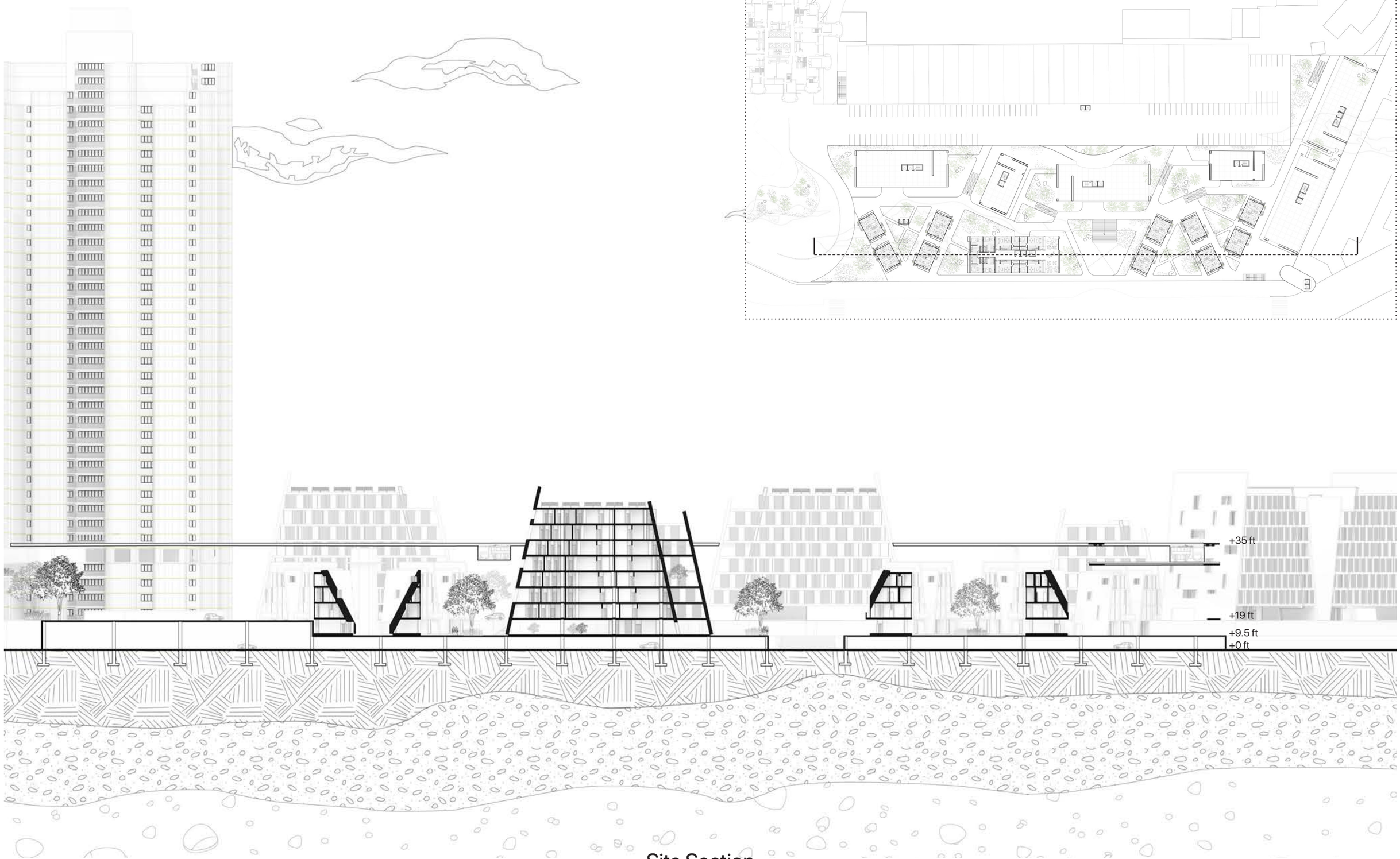
Led by Galia Solomonoff
Group Project with Shaoyu Chen



Engaging Paul Rudolph's original vision for Tracey Towers, this project proposes a new stratum of housing at the base: a network of medium-rise towers and condominium units carefully interwoven between the existing high-rise forms. These additions are conceived not as isolated objects, but as mediators, negotiating between the monumental scale of the towers and the intimate scale of the street, while responding to the evolving patterns of domestic life in the Bronx.

Site Plan

Floor Plan

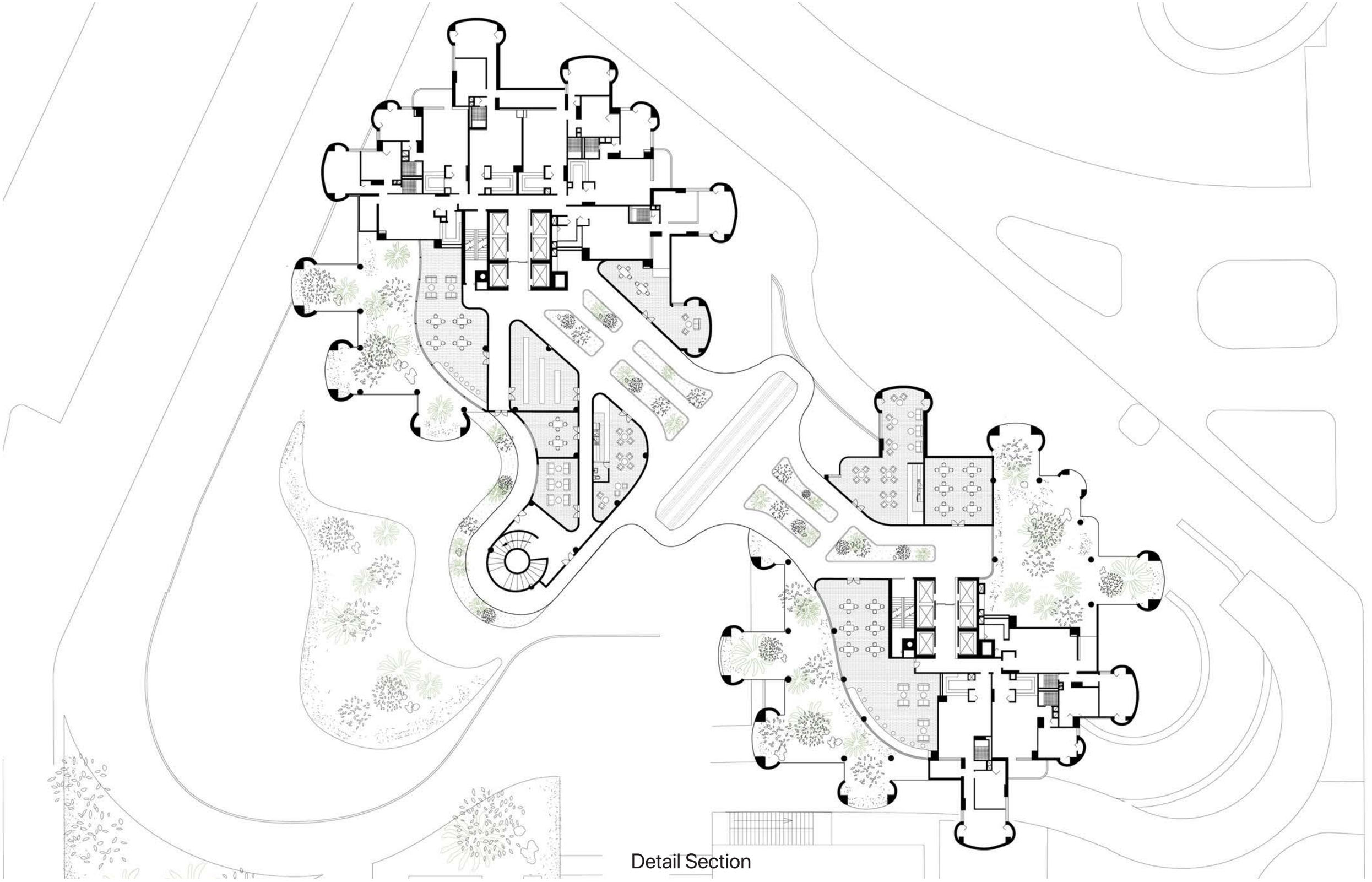


Site Section

Condo Unit

Typical Studio Unit

Daycare

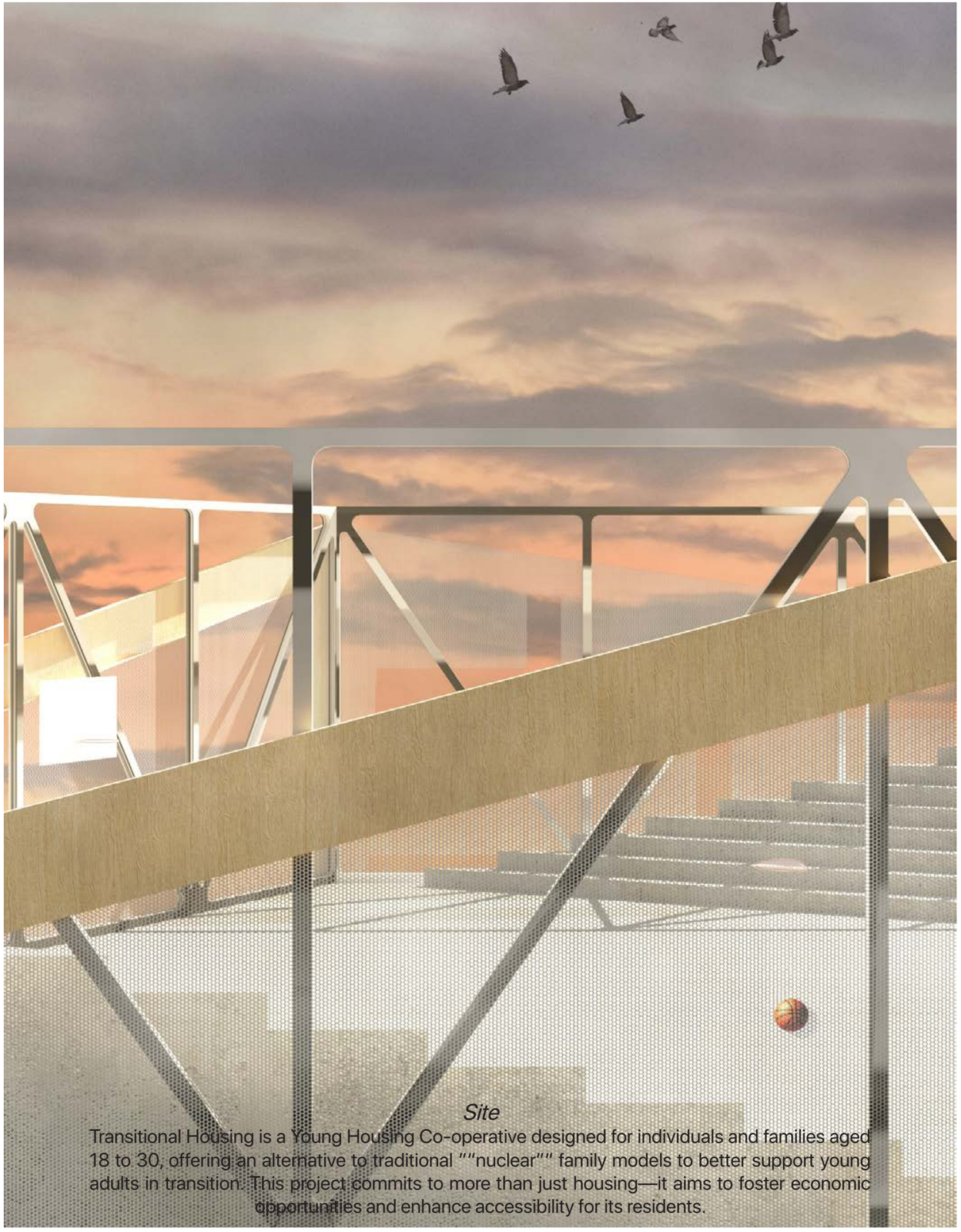


Detail Section


Tram

ACADEMIC
III / Transitional Housing / 2023

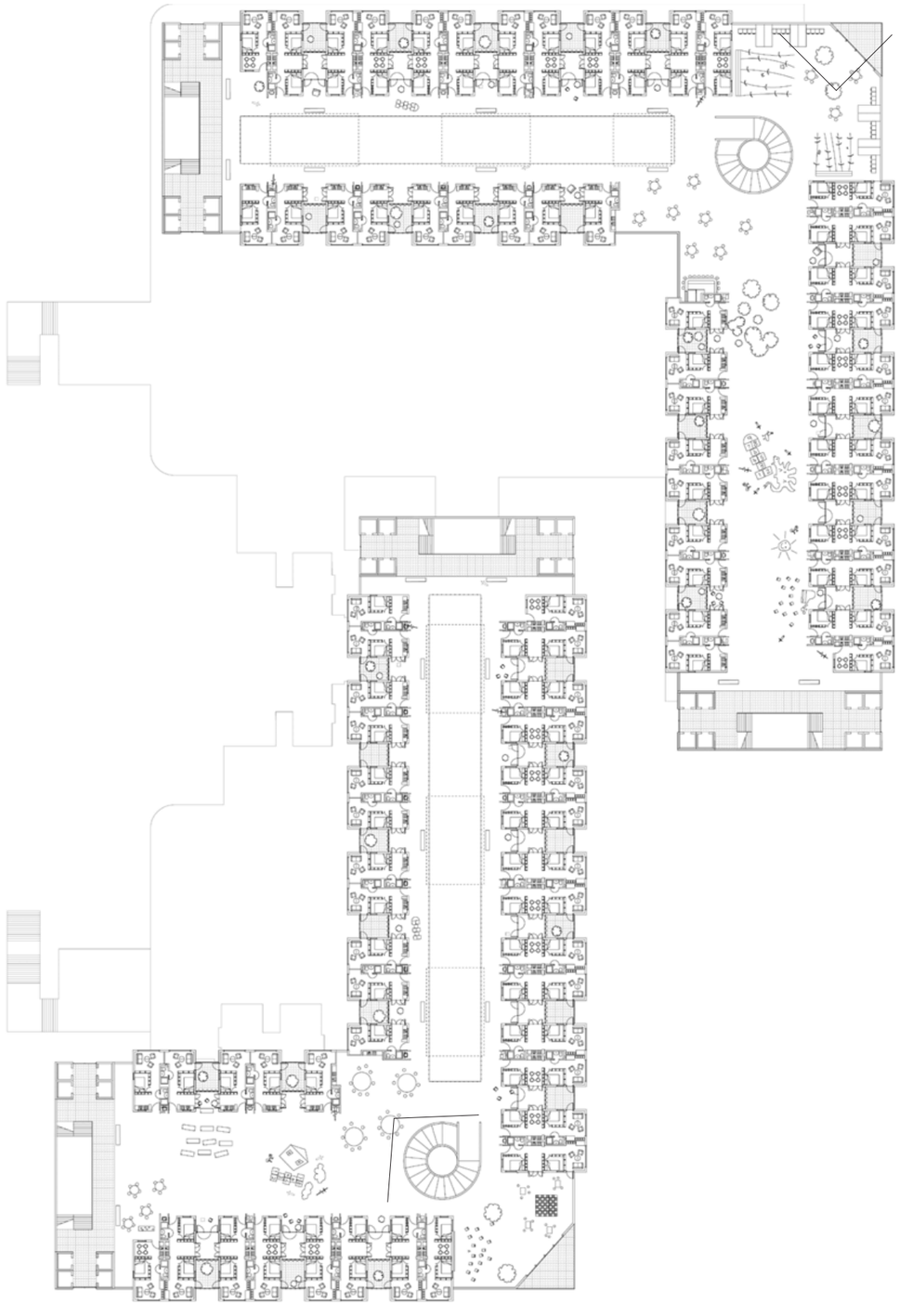
Transitional Housing 流动公屋



Site

Transitional Housing is a Young Housing Co-operative designed for individuals and families aged 18 to 30, offering an alternative to traditional ""nuclear"" family models to better support young adults in transition. This project commits to more than just housing—it aims to foster economic opportunities and enhance accessibility for its residents.

Led by Galia Solomonoff
Group Project with Yuqian Wang

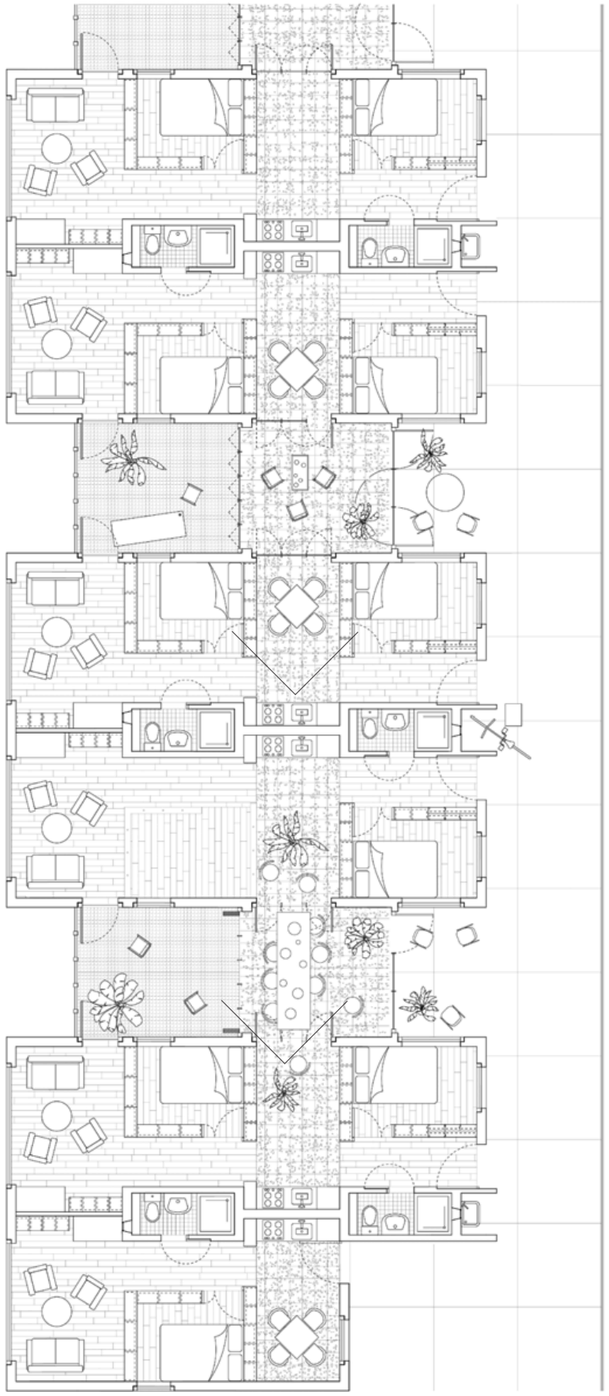


Urban Podium

Units are organised on both sides of the floor, leaving a street like condition for the residents to activate, 2 spiral stairs are attached in the centre where the stairs becomes a gathering space.

Laundry/ Gathering Space

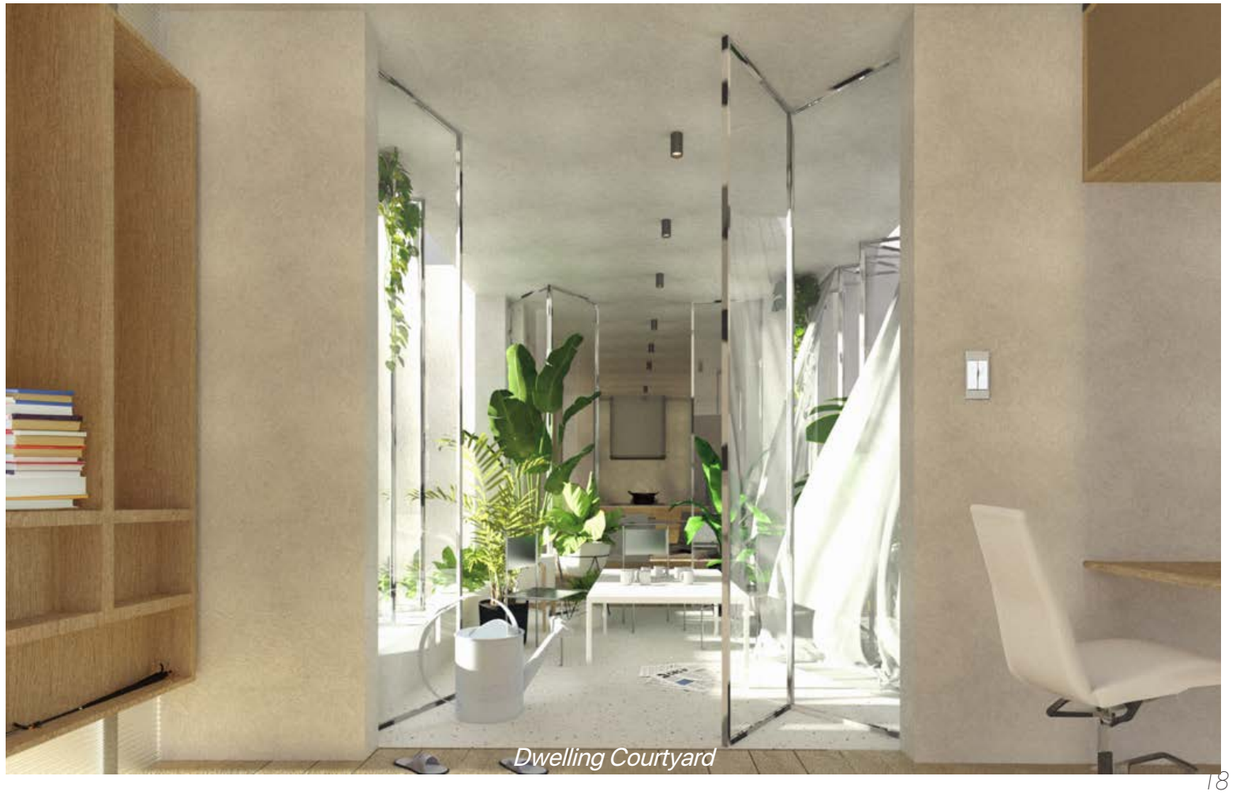
Interior "Street"



Dwelling

Modular design where 2 individual units are organised into 1 single block, in between the 2 blocks is an accessible courtyard and balcony. The small communal courtyard activates activities such as dining or leisure, which can be an option for the residents to use collectively or individually.

Living Space



Dwelling Courtyard

1:500 Design Model

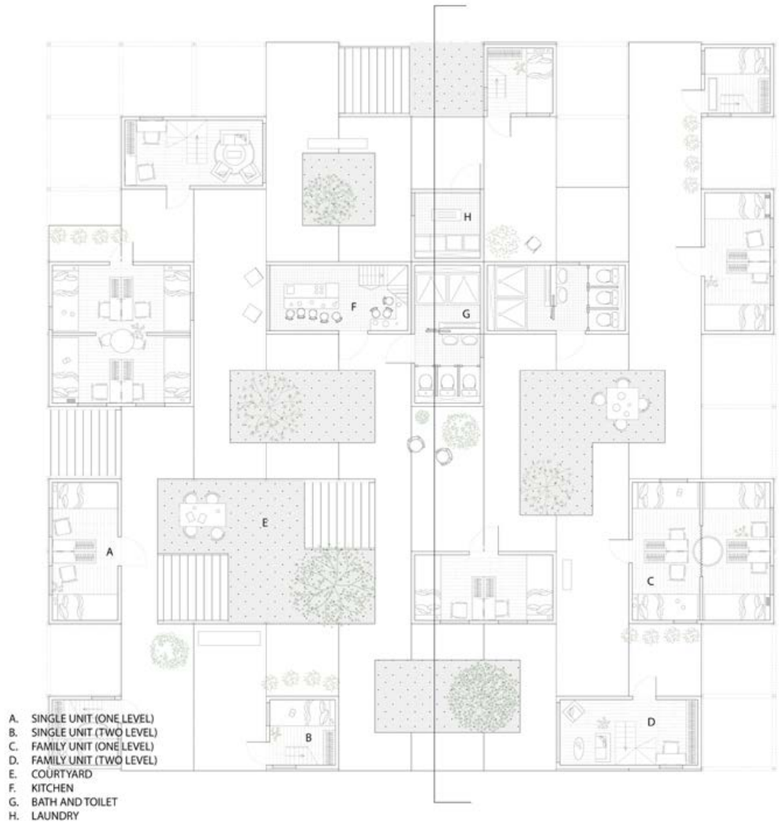
Facade/ Entrance

ACADEMIC
IIII / Floyd Bennet City/ 2023

Floyd Bennett City

City 1.5 is a reception complex that addresses emergency reception for displaced populations while revitalizing Floyd Bennett Field national park with daily life programs.

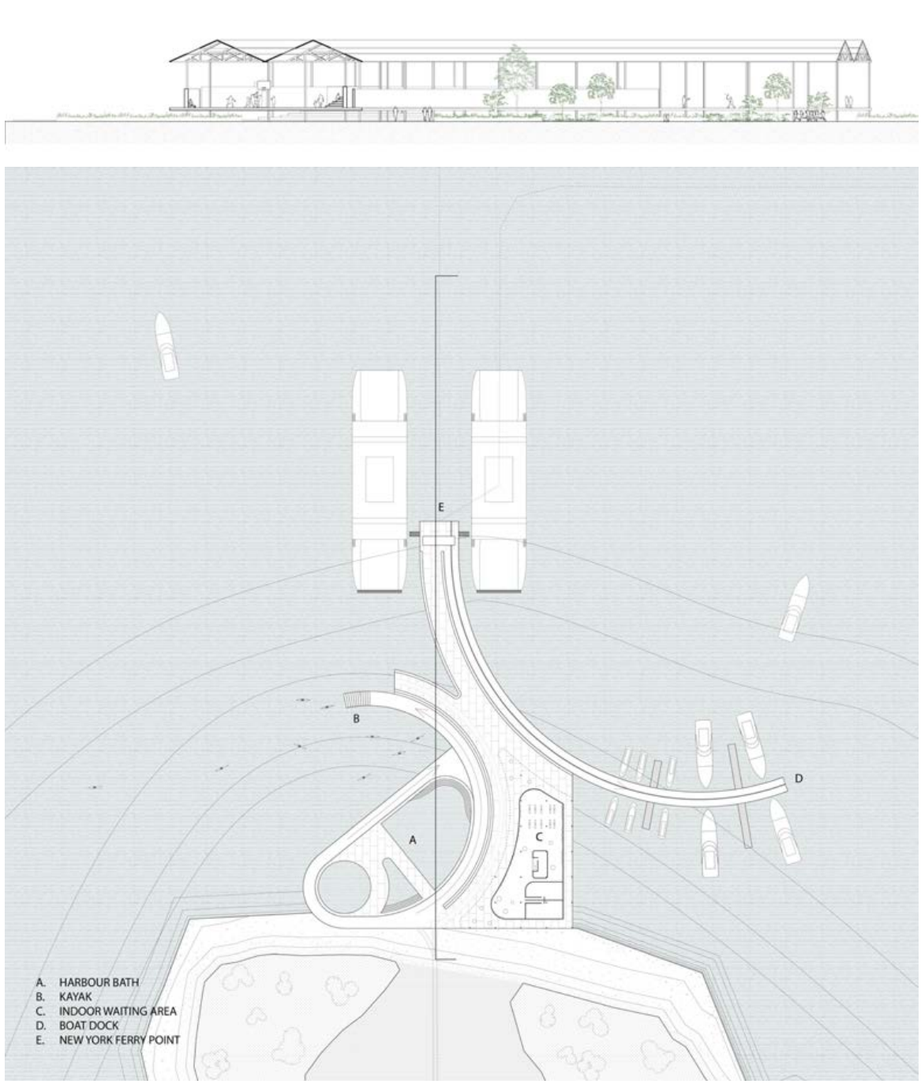
Led by Havard Breivik-Khan
Group Project with Xiaotao Mo & Jihyun Nam

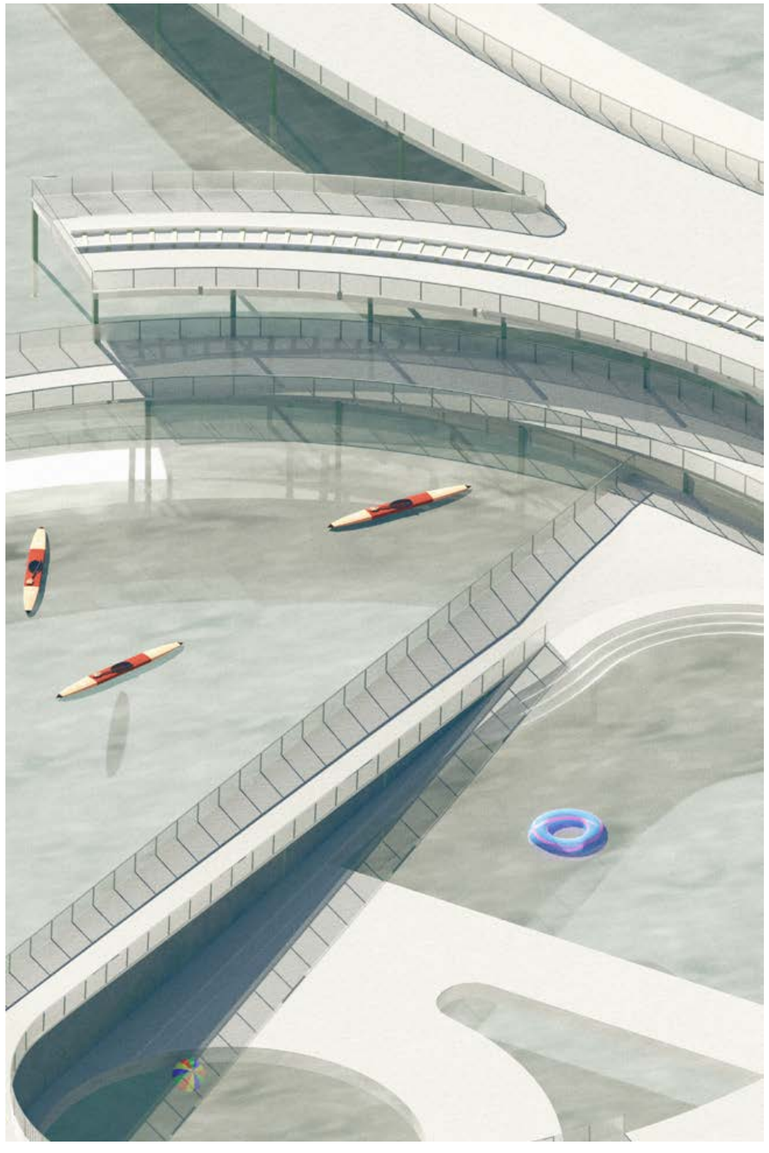


A. SINGLE UNIT (ONE LEVEL)
B. SINGLE UNIT (TWO LEVEL)
C. FAMILY UNIT (ONE LEVEL)
D. FAMILY UNIT (TWO LEVEL)
E. COURTYARD
F. KITCHEN
G. BATH AND TOILET
H. LAUNDRY

Residential Units

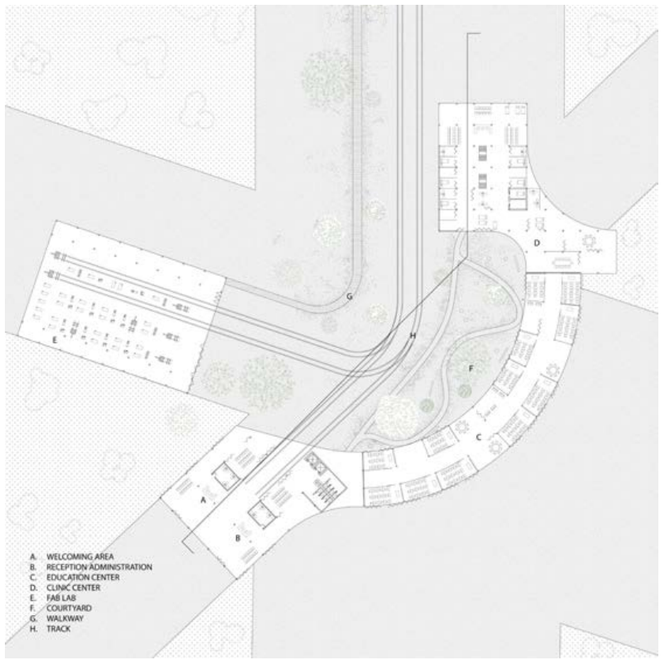
Housing accommodation is built on top of the former airport runways as a preliminary foundation with elevated platforms to offer flood-resistant housing equipped with prefabricated modular units tailored to various family sizes.

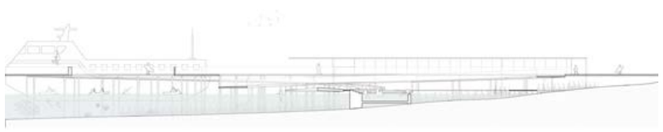


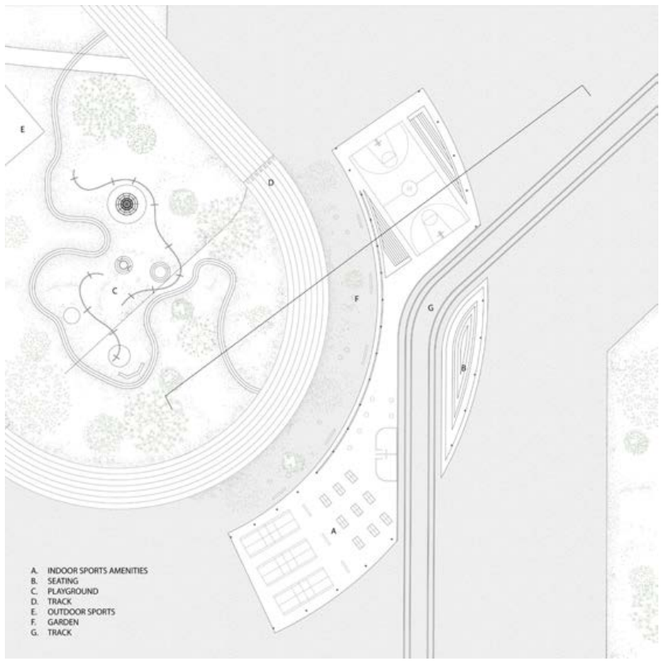


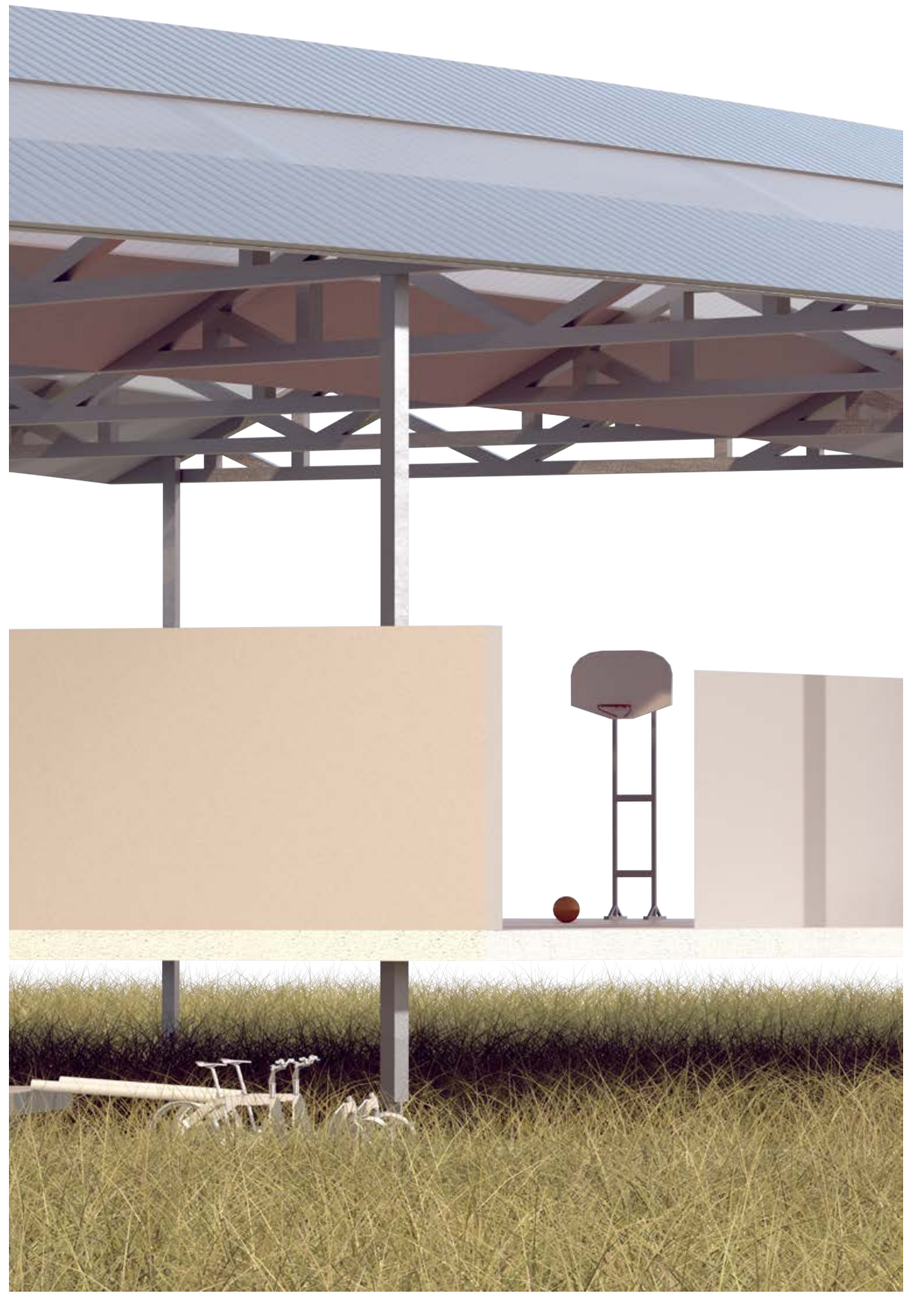
Hub Three

Hub Three provides water-related activities and ferry access.









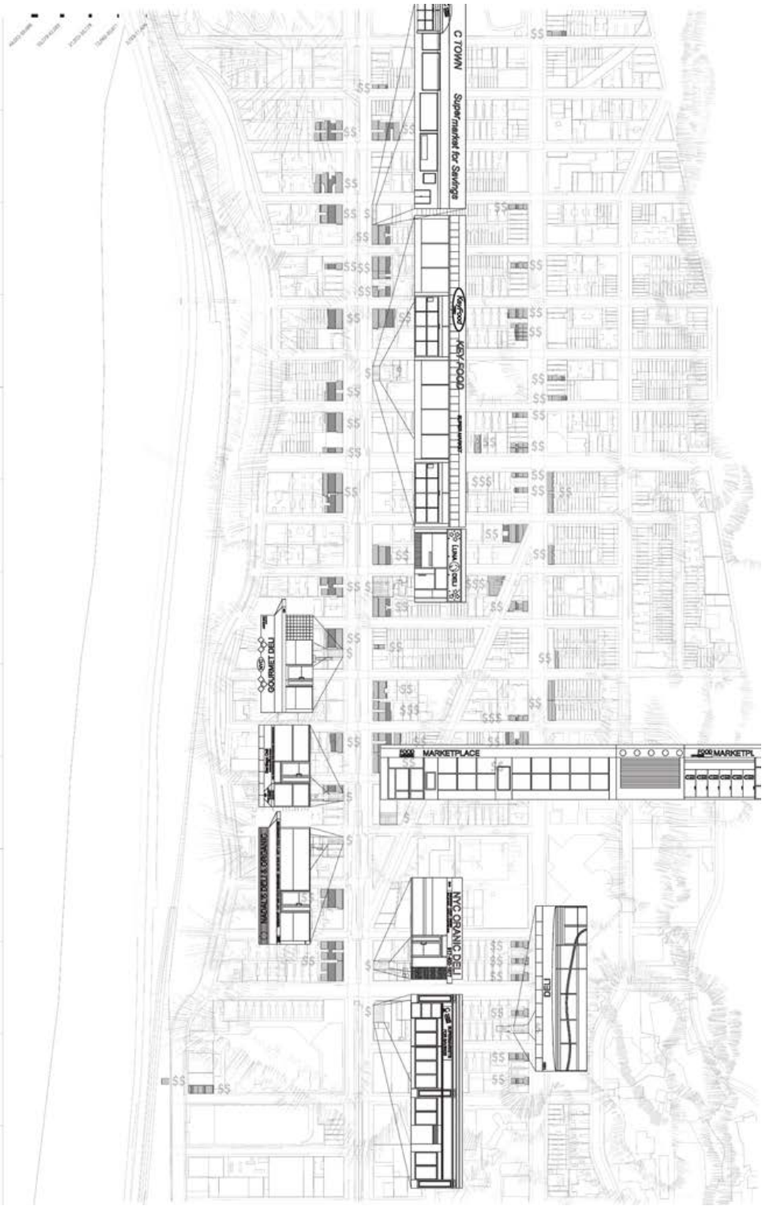
Hub One and Two

Hub One serves as the main reception area, accommodating both incoming tourists and arriving refugees, complete with education and clinic facilities. Hub Two offers recreational amenities for residents and refugees alike, promoting community engagement and well-being.

ACADEMIC
V / Dine with Me / 2022

Dine With 饭 社 会 堂 Me

Led by Havard Breivik-Khan
Group Project with Xiaotao Mo & Jihyun Nam


2021
2020
2019
2018
2017
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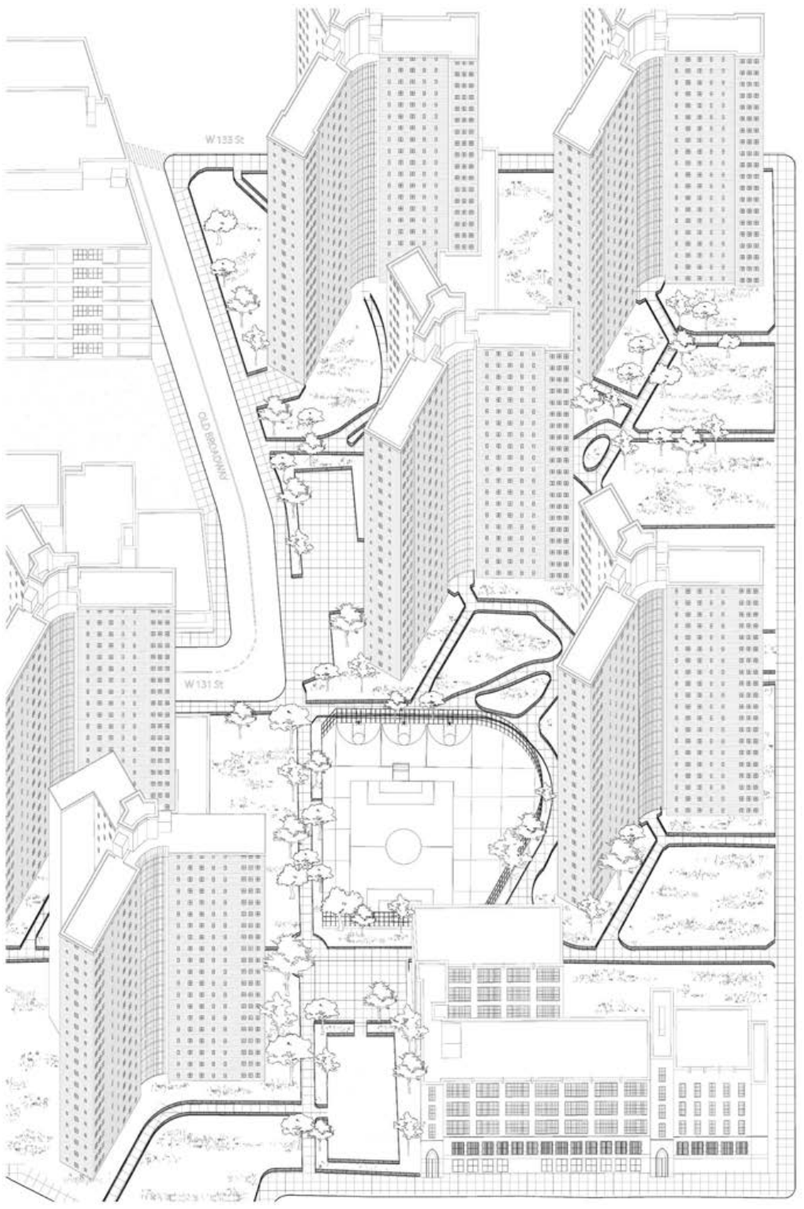
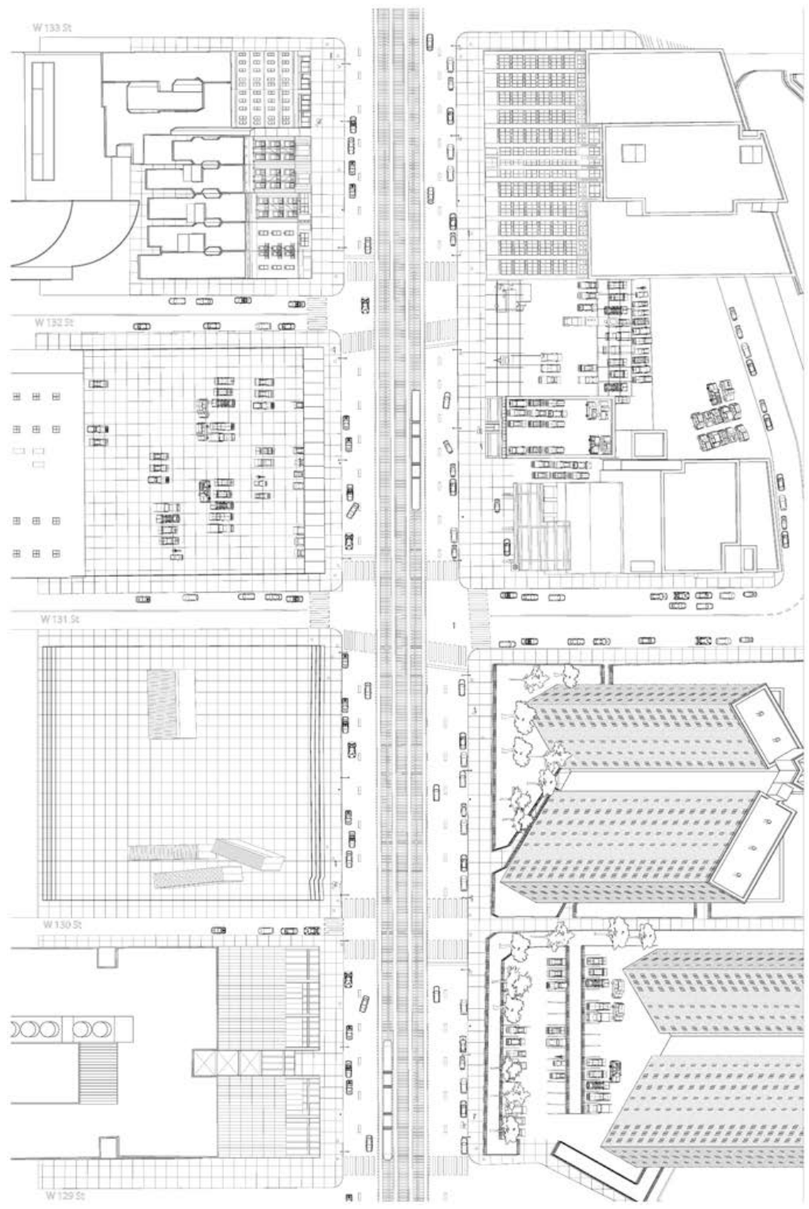
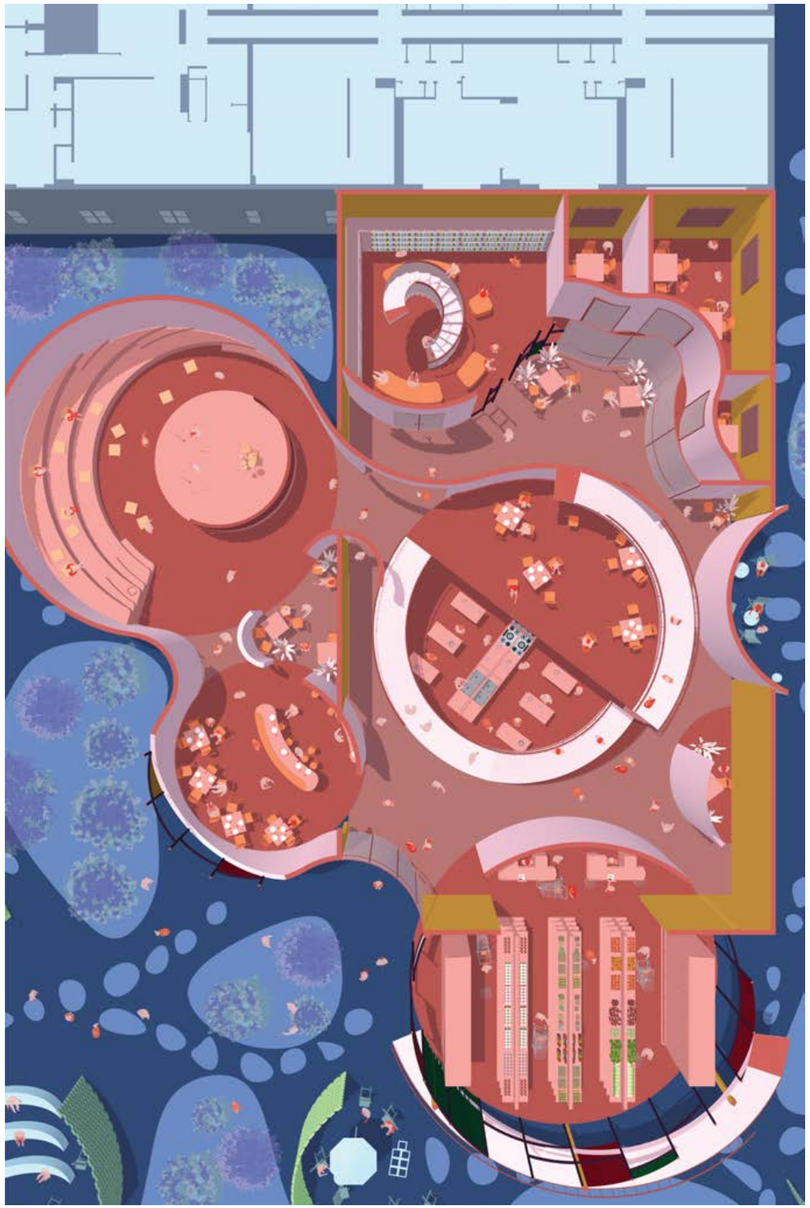
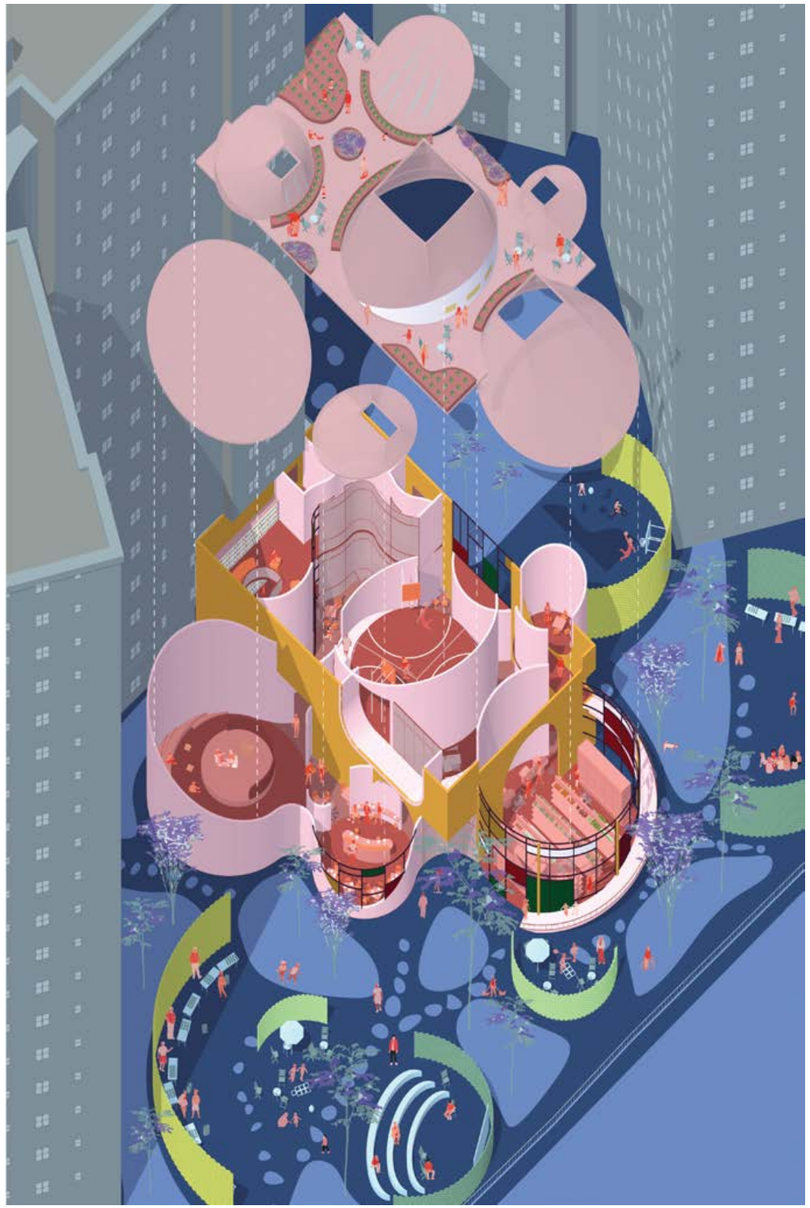
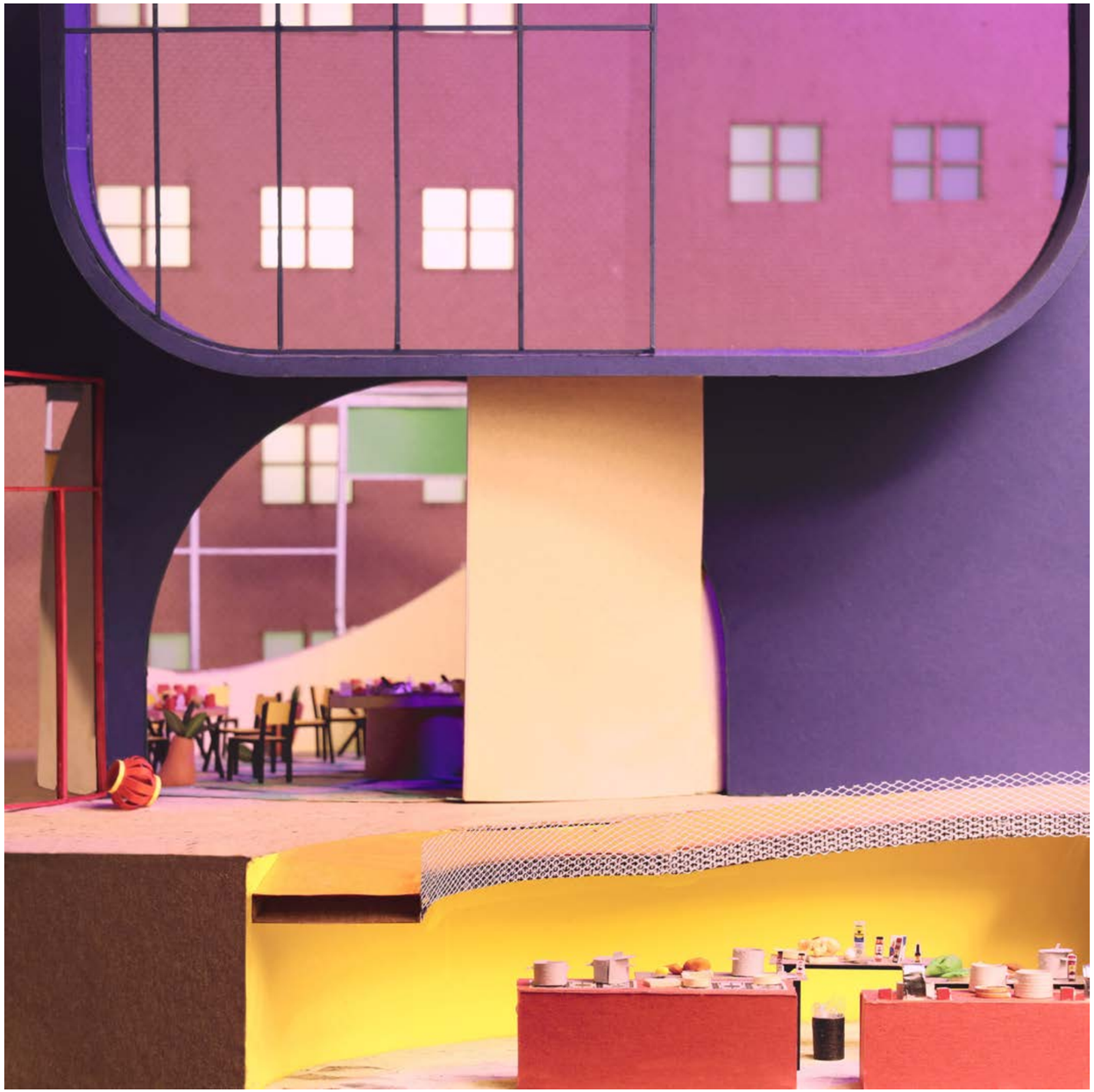
2002
2001
C TOWN Supermarket for Sedrigo
KEY FOOD
MARKETPLACE
DELI


W 133 St
OLD BROADWAY
W 131 St


W 133 St
W 132 St
W 131 St
W 130 St
W 129 St







AWARD
I / RAMSA TRAVEL FELLOWSHIP/ 2024

RAMSA 2024 FELLOWSHIP 福建土樓

Sole recipient of this year's travel prize. The RAMSA Fellowship is a $15,000 prize awarded annually by Robert A.M. Stern Architects for travel and research.

Led by RAMSA
Individual Research and Travel

Tulou: An Urban Typology in Rural

Nestled within the lush landscapes of southern China, the Tulou (土楼) stands as a testament to the resilience and innovation of Hakka(客家) culture. These introverted earthen structures, crafted over 1000 years ago, narrate the tales of large families in search of refuge and community behind their thick, protective walls. Far surpassing just architectural wonders, Tulous stand as living organisms that embody individuality and communal life.

The term "Hakka," meaning "guest people" in Mandarin, contrasts with "主" (zhu), "owner,". The community underwent 5 significant migrations, starting Eastern Jin (400 AD), amid northern invasions. This turmoil prompted the Hakkas' ancestors to migrate from central China to regions like Hunan and Jiangxi due to the Jin dynasty's fall. A subsequent migration between Tang and Song dynasties' (900 AD), propelled by Chao Huang's rebellion, led them to areas including southern Anhui and parts of Fujian and Guangdong. Isolated for centuries, this period allowed the Hakka culture and the unique Tulou architecture to flourish.

Symbolic of the Hakka spirit, the Tulou features massive rammed earth walls up to four stories high that serve dual purposes (figure 2). These walls act as fortresses against external threats, while regulating the interior climate to promote a harmonious living environment. Inside, the structures are organized around courtyards with timber framing, assigning each family their home with shared corridors and balconies (figure 3). Constructed from natural materials like sand, stone, rice flour, and bamboo, destined to return to the earth, Tulous represent the Hakka people's respect for nature, sustainability, and community.

Centuries ago, this innovative housing typology emerged without architects, leveraging available materials, and adapting to shifting social structures. The evolution of vernacular architecture, developed through indigenous knowledge and transforming livelihoods, now faces challenges. Many Tulou sites now face abandonment, traditional building techniques are being overlooked for modern alternatives that often disregard local environmental and cultural context. To understand this phenomenon, I will travel to six UNESCO-recognized sites in Fujian, China (figure 1)—***Chuxi Village, HongKeng Village, Gaobei Village, Shangban Village, Hekeng Village, and Dashiyang Village***—and visit 16 Tulous. This research will allow me, as a modern architect, to appreciate ancient structures and local materials amidst our quest for innovation.

The travel proposal aims to create an architectural encyclopedia that captures the essence of Tulou through photography and detailed drawings. I plan to explore the material and structural aspects, especially the rammed earth walls and timber frameworks, to understand their ecological impacts and architectural resilience. As well as transcripts of Interviews with local inhabitants, will delve into the communal life and traditions within Tulous, presenting a journey that celebrates an architectural heritage.

Figure 1, Site map


Figure 3, Typical Section of Tulou

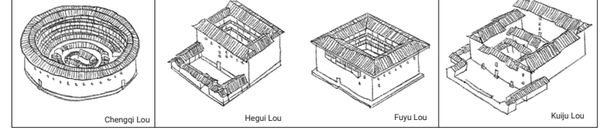
Itinerary

Chuxi Village *Jiqing Lou, Shengqing Lou*	Day 1-5
Hongkeng Village *Zhencheng Lou, Fuyu Lou, Kuiju Lou*	Day 6-11
Gaobei Village *Chengqi Lou*	Day 12-14
Shangban Village *Hechang Lou, Buyun Lou, Duanyun Lou, Zhengchang Lou, Wenchang Lou*	Day 15-21
Hekeng Village *Yangzhao Lou, Nanxun Lou, Shengqing Lou*	Day 22-25
Dashiyang Village *Hegui Lou, Huaiyuan Lou*	Day 25-31

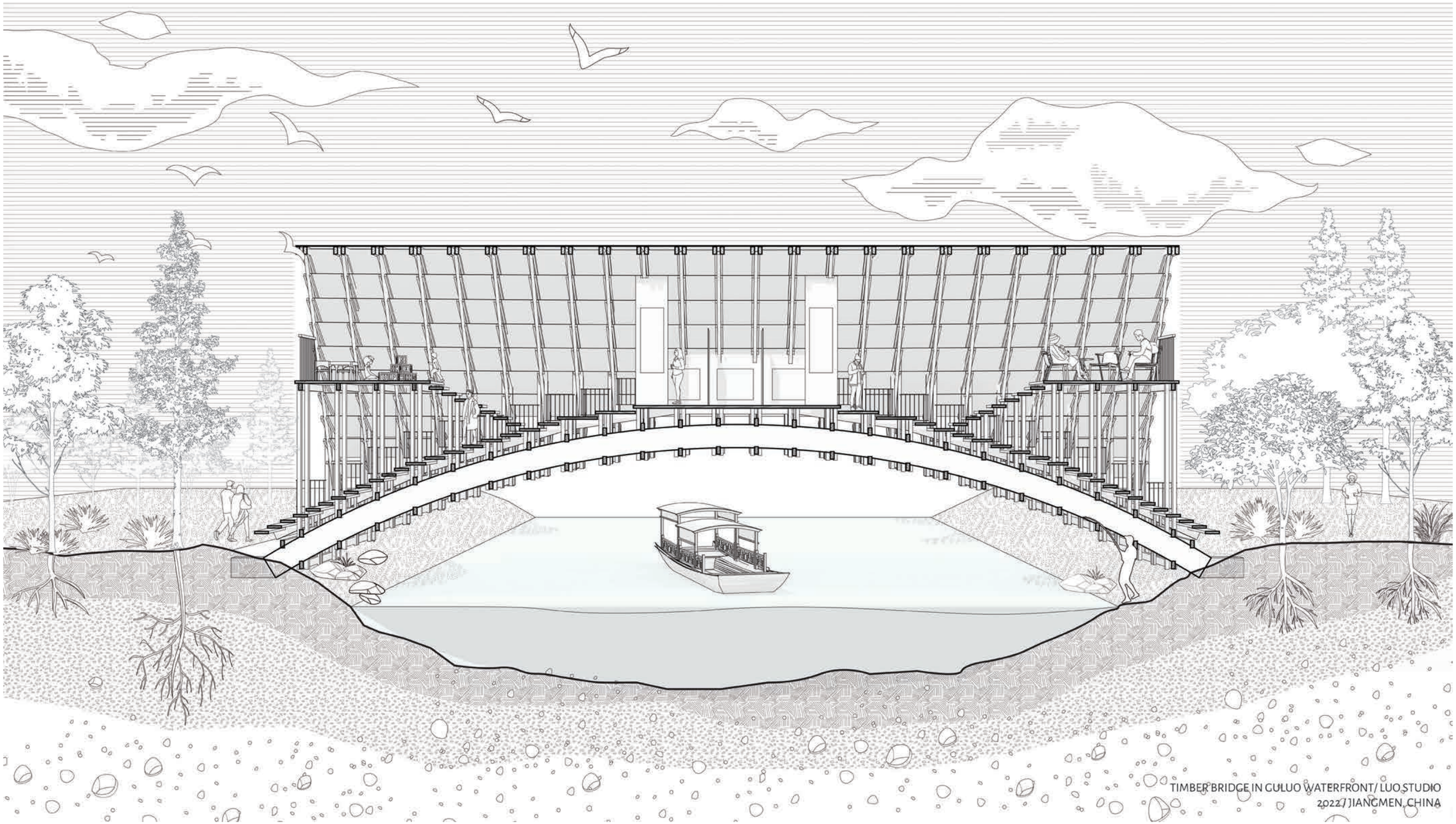
Budget Estimation

Airfare	5000
Transportation (Car Rental & Train)	3500
Accomodation ($132/Day)	4100
Guide and Admission	700
Food ($22/Day)	700
Contingency & Misc	1000
TOTAL: 15000	

Figure 2, Types of Tulou



LINKS TO ARTICLES AND ANNOUNCEMENTS



Led by Marc Tsurumaki
Elective Work from Seminar of Section

Led by Anna Knoell
Elective Work from Designing Spaces for Children

Led by Zachary Mulitauaopele
1:1 Crafting and Fabrication Detail