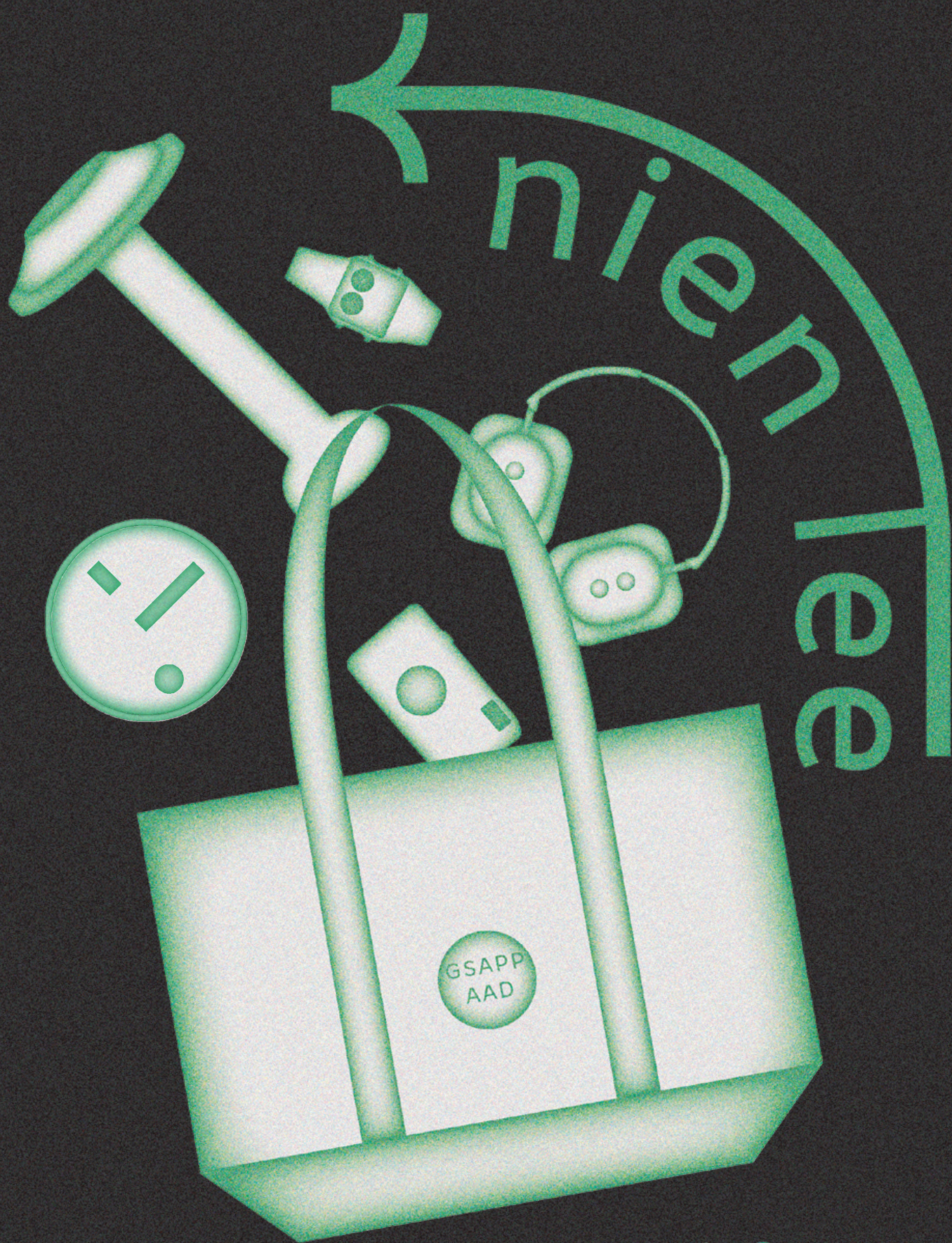




Portfolio



1

After Vessel

Mutations on Post-Digital Materiality

Summer 2025 **03**
Studio

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Midtown Block Re-edition

Unfolding The Hidden Block

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Studio

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Multi Graphics & Representation

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Observations of People in Space

Fall 2025 **19**
Architectural Photography

1 After Vessel

Mutations on Post-Digital Materiality

Year Summer, 2025
Critic Michiel Helbig
Partner Guan-Yi Siao, Shao-Wei Wang

Using the Vessel as a case study, this project examines how architecture increasingly operates through and for images. Through speculative mutations, critical copies, and scraped digital media, it maps post-digital shifts in materiality, value, locality, and place, revealing architecture's entanglement with social media, data infrastructures, and contemporary image culture.



Experiments



01 Social Media Overlay

Collecting 250 photos of the Vessel from social media, we created an overlaid composite image centered on the landmark, revealing how it is collectively framed and consumed online.



02 Dynamic Perspective

Using Processing, we generated a dynamic visualization from the upward-looking perspective of the Vessel, exploring how code can reframe architectural perception through motion.



03 Photogrammetry Reconstruction

By selecting 250 images from similar angles, we used Agisoft to reconstruct a 3D model of the Vessel, exposing both the potential and limitations of crowd-sourced visual data.



04 Street View Immersion

360-degree Google Street View images were imported into Blender to create an immersive model of the Vessel, allowing viewers to experience the site virtually from multiple vantage points.



05 Spherical Mutations

We experimented with Google Street View panoramas to generate a series of spherical models, transforming photographic data into new spatial mutations.

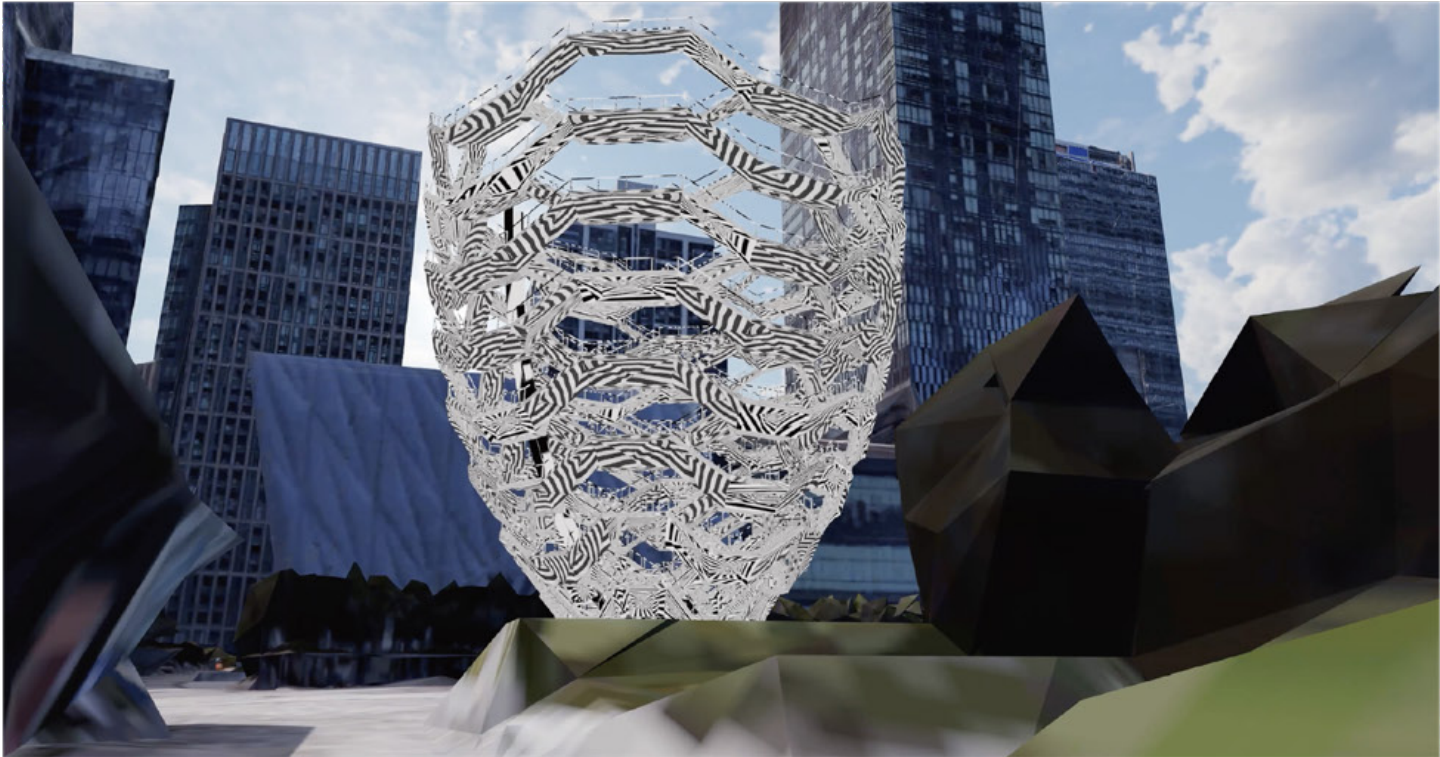


06 Fabrication Mockup

Using video footage of the Vessel's fabrication in Italy, we applied photogrammetry in Agisoft to reconstruct a mockup model, linking the building's material origins back to digital form.



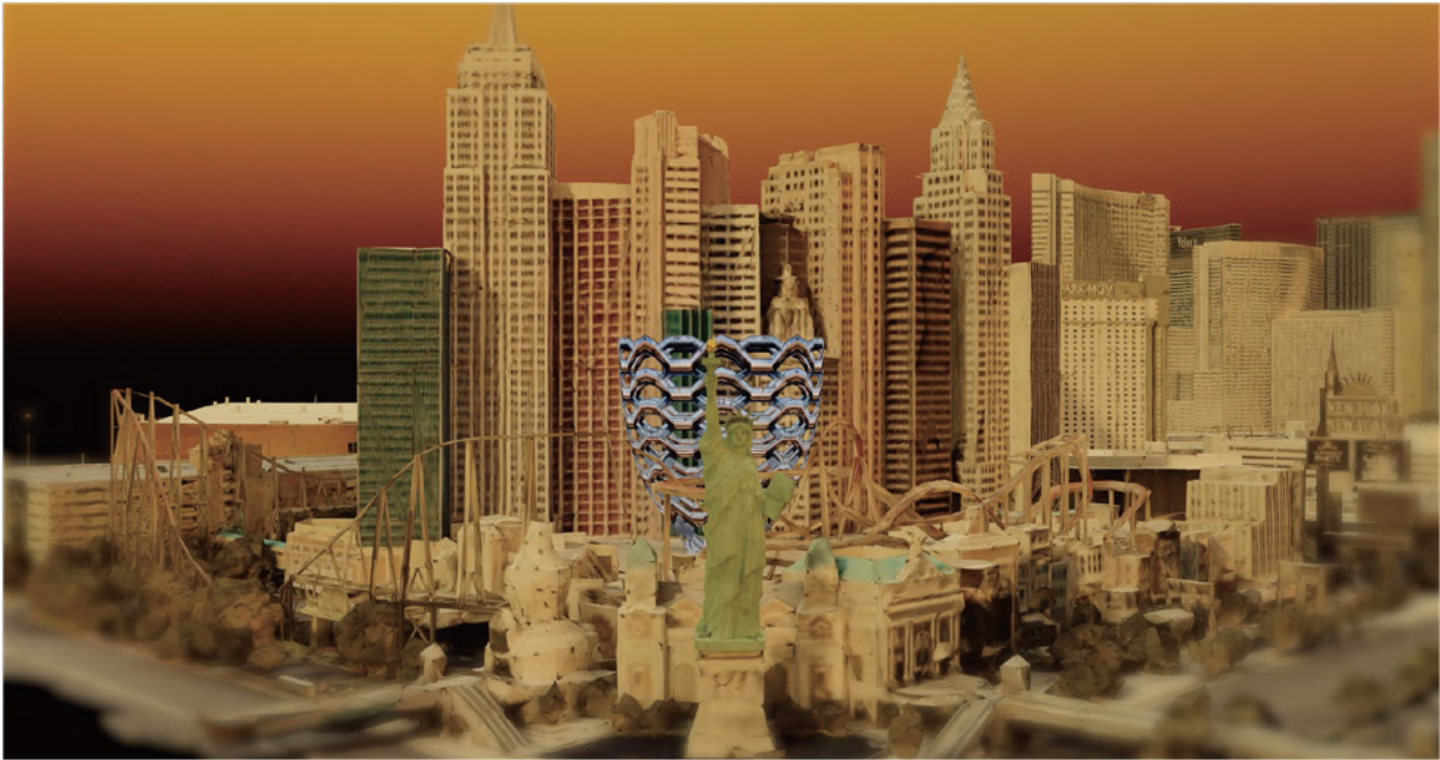
01 Recycling Vessel 04:04-05:35
A Vessel reassembled from staircase scans collected worldwide, questioning whether digital fragments can create a new sense of material locality.



02 Razzle Dazzle Vessel 05:36-06:50
A Vessel covered with camouflage patterns that resists photography, asking what becomes of a landmark when it refuses visibility.



03 Sphere Vessel 06:50-08:12
A Vessel formed through projection, where every framed view becomes a screen and architecture itself turns into cinema.



04 Vegas Vessel 08:13-09:02
A Vessel reduced to its surface appearance, exposing the condition of architecture when it exists only as spectacle.



Everywhere Vessel - VATICAN



Everywhere Vessel - TOKYO



Everywhere Vessel - LONDON

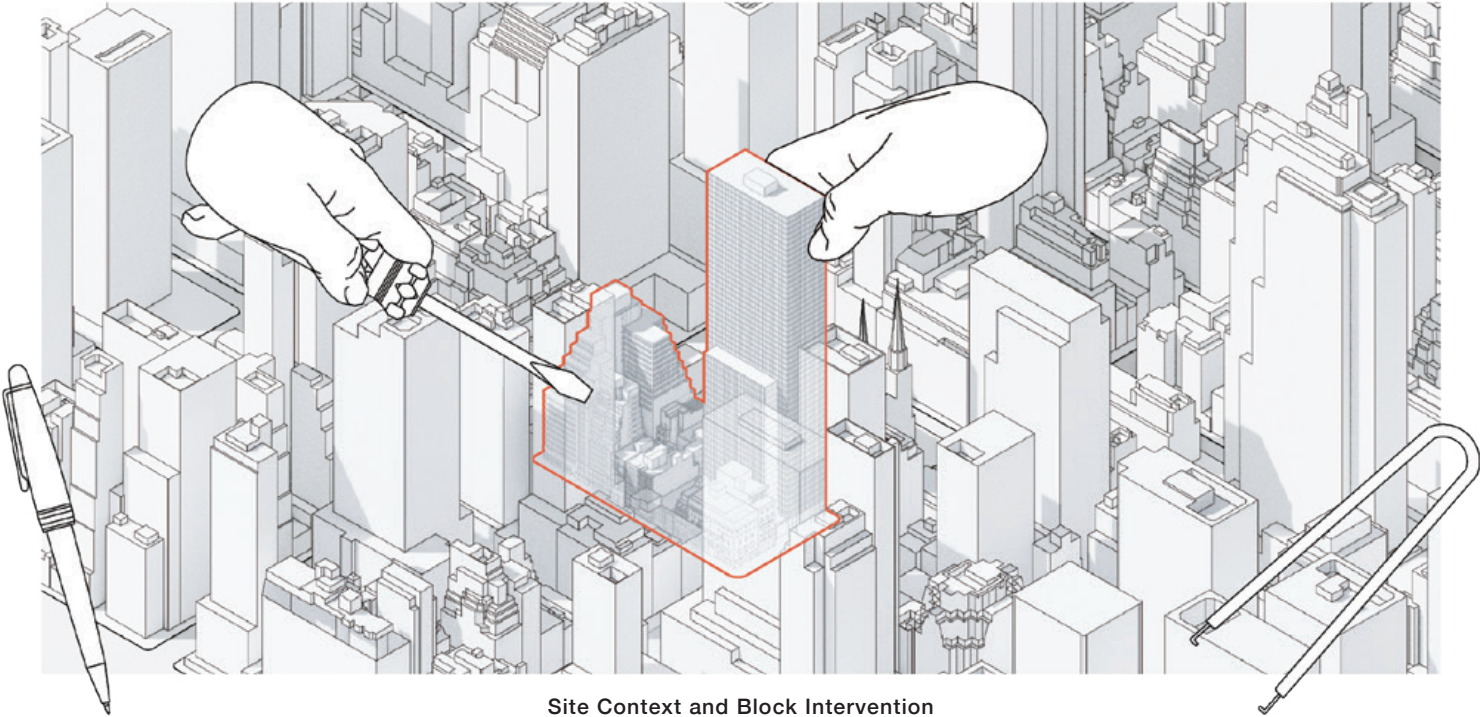


2 Midtown Block Re-edition

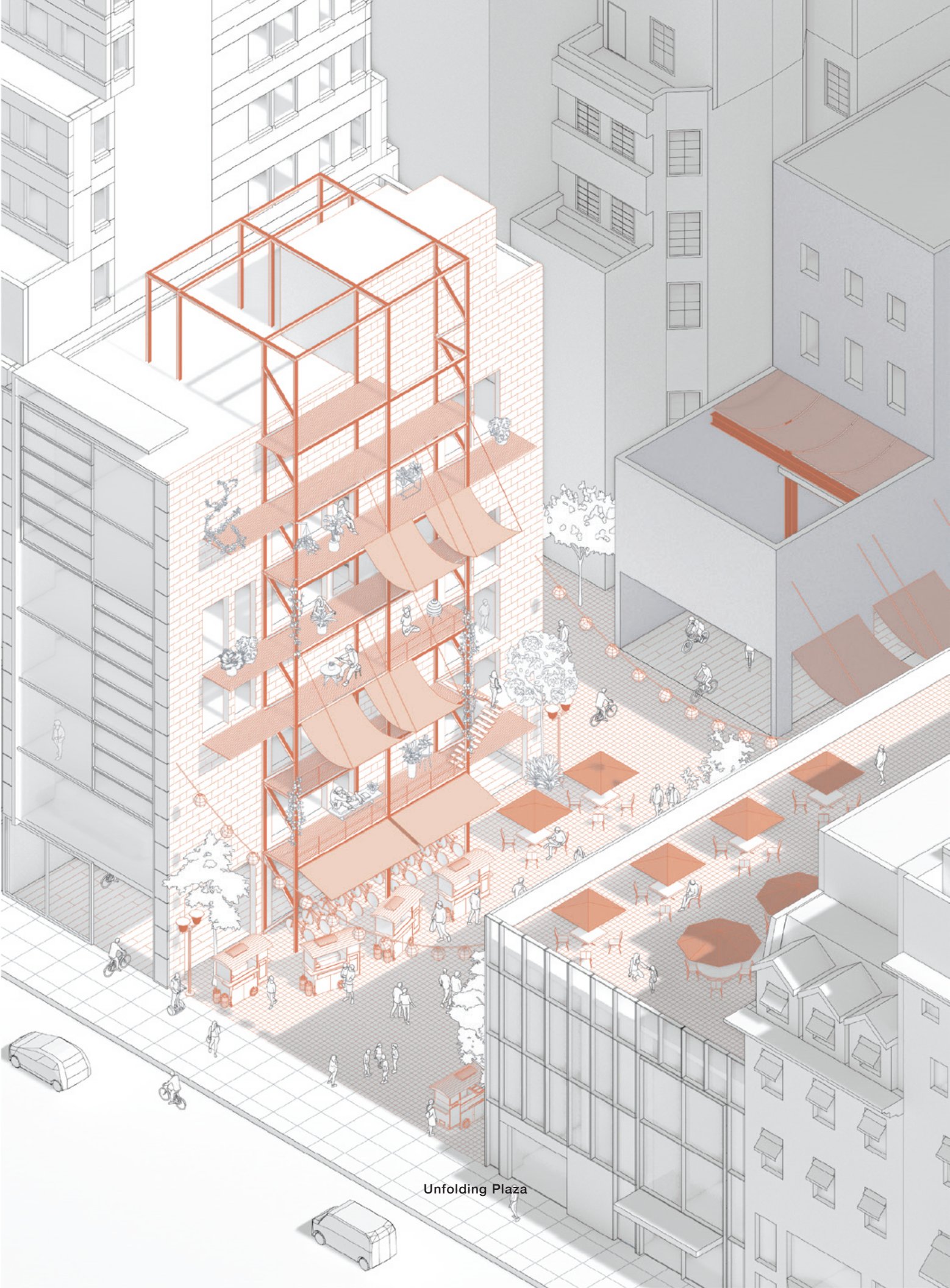
Unfolding The Hidden Block

Year Fall, 2025
Critic Sebastian Adamo, Javier Flores
Partner Fern Sripongtanakul, Ashley Broyles
Site Midtown New York

A typical Midtown office block is reimagined as a multi-layered urban home by transforming vacant office floors into housing and creating an internal garden network that connects surrounding public spaces. A climate-responsive canopy regulates microclimates to support year-round habitation, while layered programs including community kitchens, gardens, and elevated public spaces convert the business district into a resilient and inclusive neighborhood for both human and non-human life.

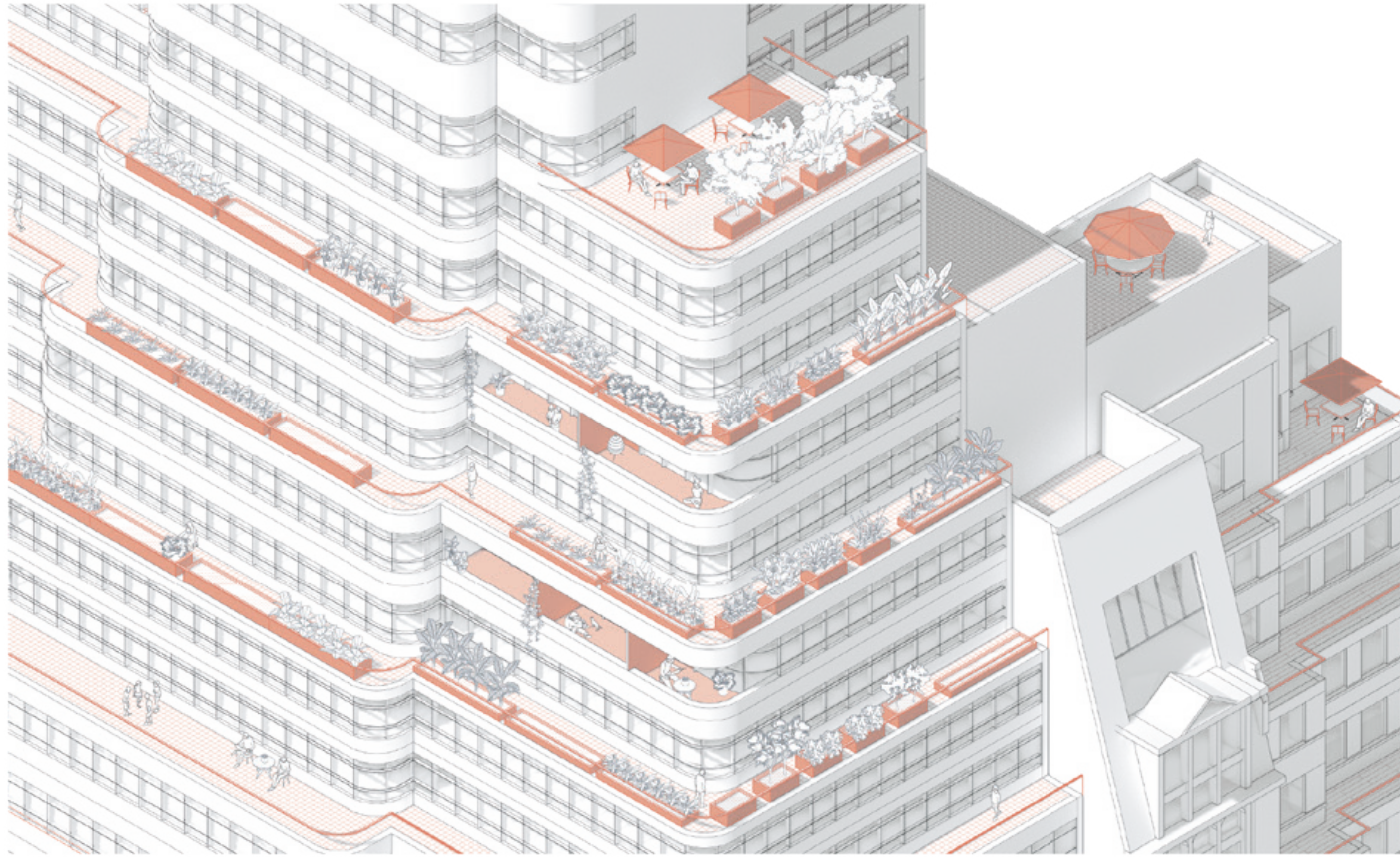


Site Context and Block Intervention

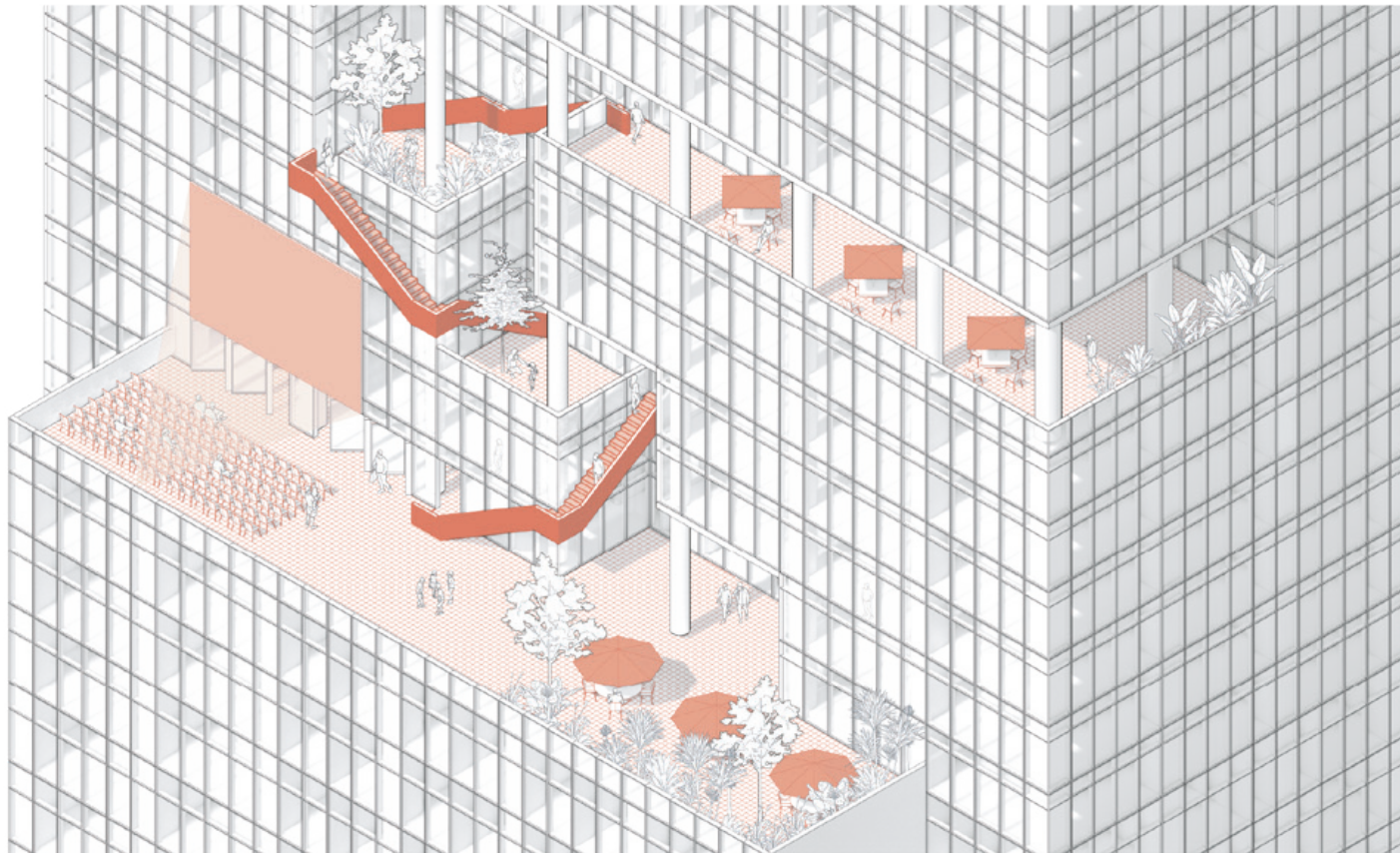


Unfolding Plaza

- 01 Permeable Highrise
- 02 Feeding the City
- 03 24/7 Block
- 04 Future Mobility
- 05 Living Room City
- 06 Plug-In City Kit
- 07 Pedestrian Avenue
- 08 People's Shed
- 09 Layered City
- 10 Cortile Nodes
- 10 Actions



Vertical Urban Life

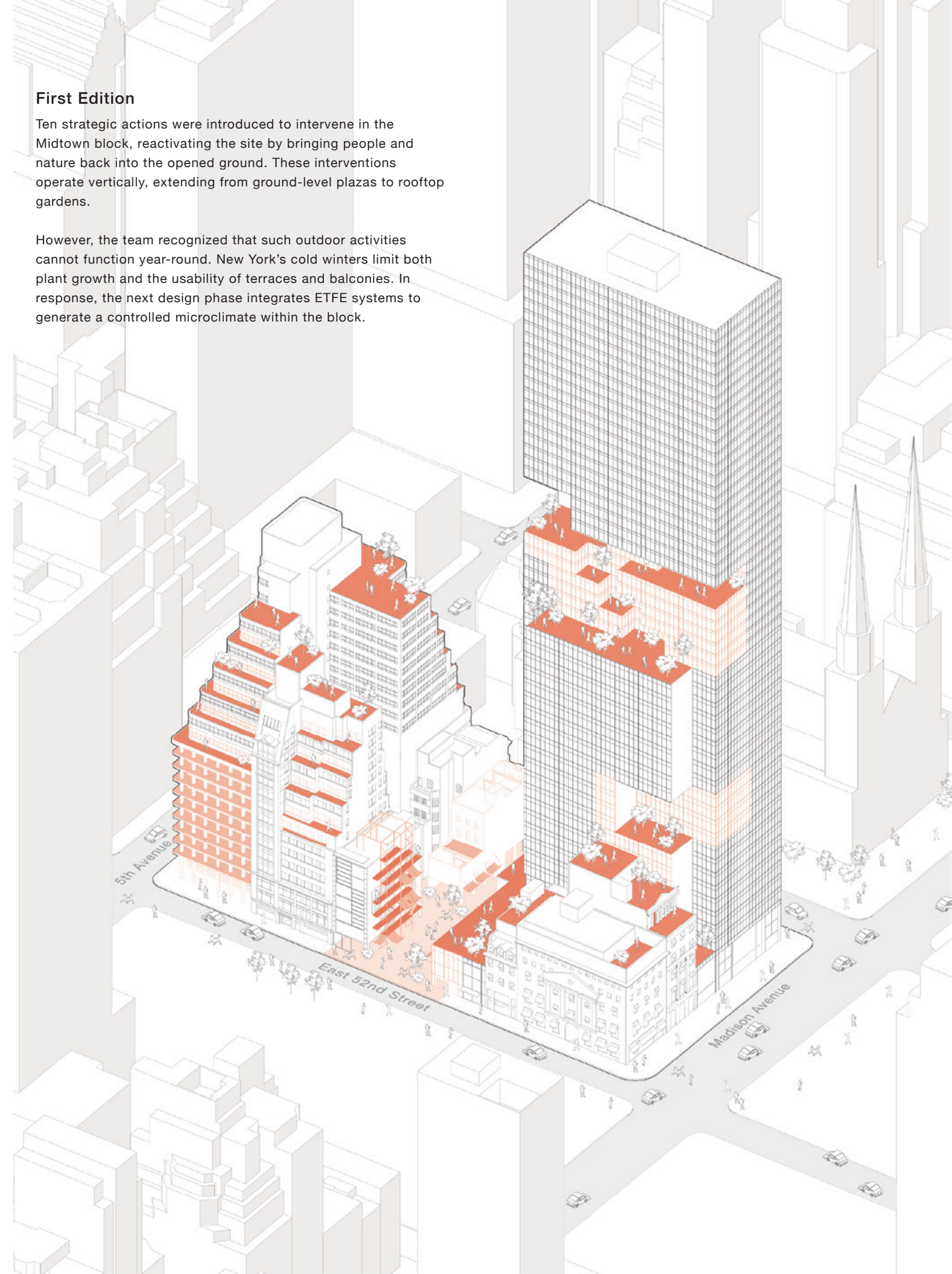


Re-opened Terrace

First Edition

Ten strategic actions were introduced to intervene in the Midtown block, reactivating the site by bringing people and nature back into the opened ground. These interventions operate vertically, extending from ground-level plazas to rooftop gardens.

However, the team recognized that such outdoor activities cannot function year-round. New York's cold winters limit both plant growth and the usability of terraces and balconies. In response, the next design phase integrates ETFE systems to generate a controlled microclimate within the block.





Block Ground Floor Plan

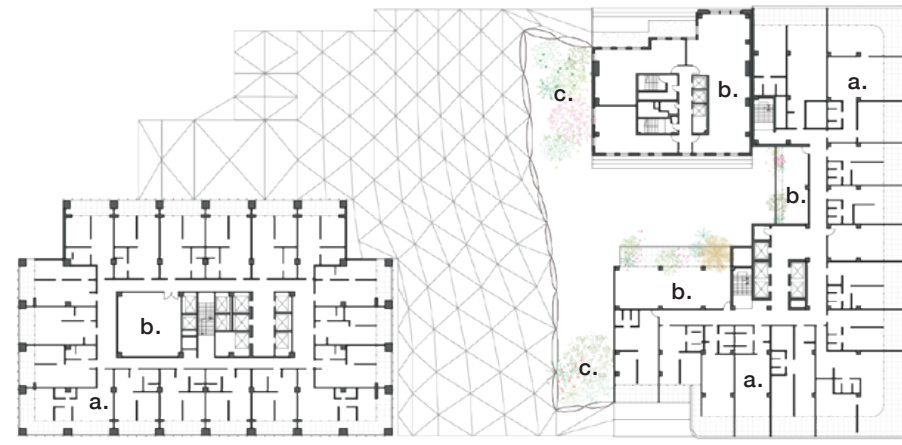
Three low-rise buildings are removed and two ground floors opened to merge with the courtyard, creating a continuous public space. Reactivated façades allow restaurants to face inward, activating the site day and night and extending Midtown life beyond business hours.

- a. Privately Owned Public Space
- b. Unfolding Plaza
- c. Bike Lane
- d. Courtyard
- e. Semi-outdoor Plaza
- f. Exhibition
- g. Cafe/ Kitchen
- h. Store
- i. Restaurant
- j. Bike Repair Store



Block Podium Plan

- a. Housing Units
- b. Theater
- c. Store
- d. Shared Spaces
- e. Dining Area
- f. Office



Block Upper Floor Plan

- a. Housing Units
- b. Shared Spaces
- c. Roof Garden



Bike Lane



Unfolding Plaza and POPS



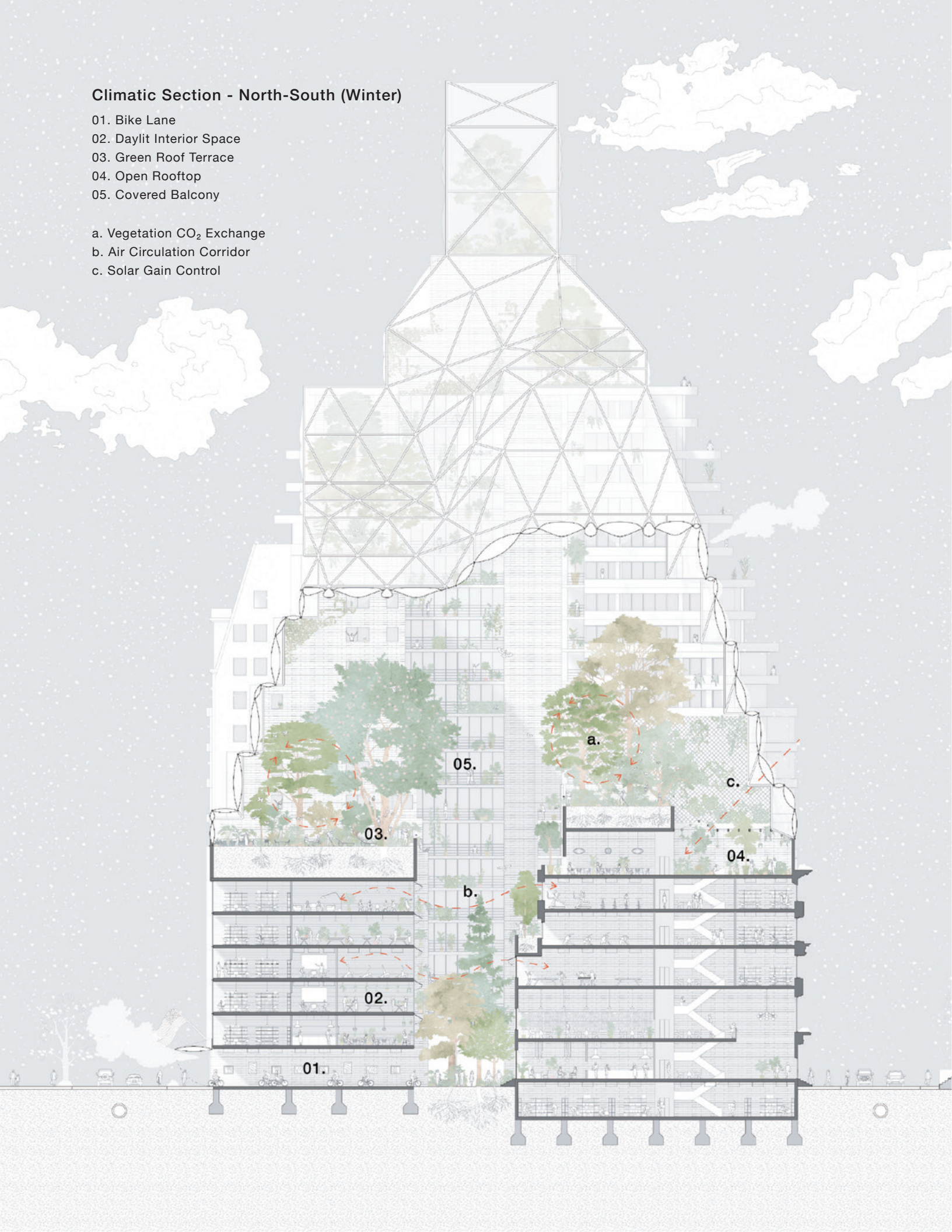
New Terrace and Urban Farm



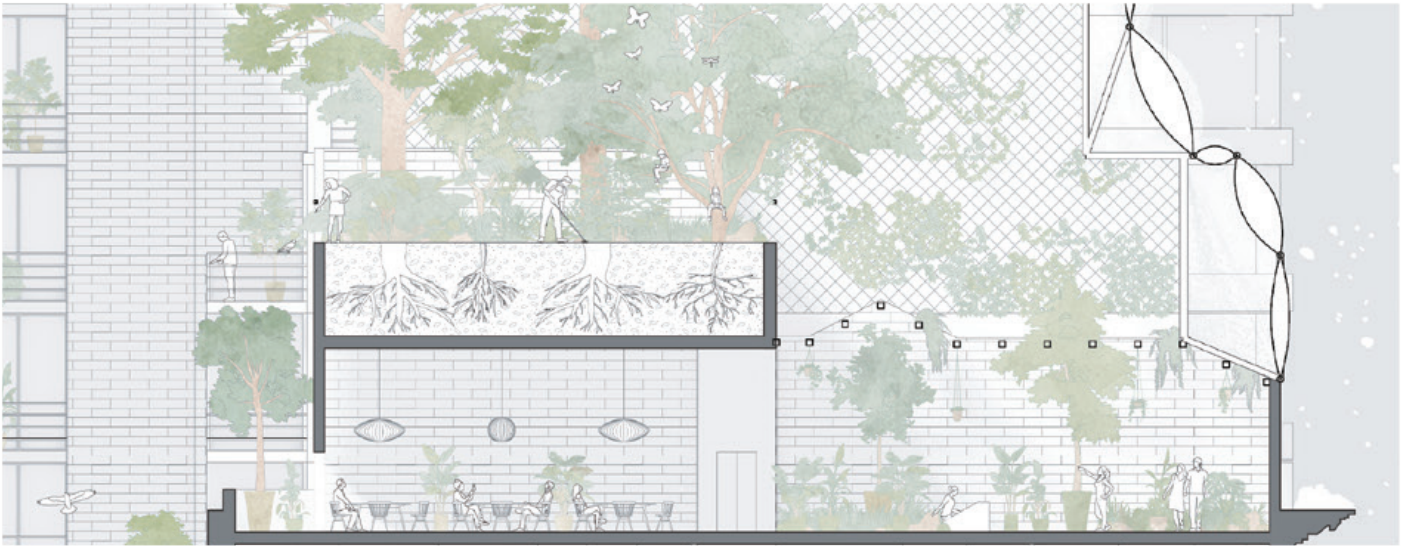
New Housing Unit

Climatic Section - North-South (Winter)

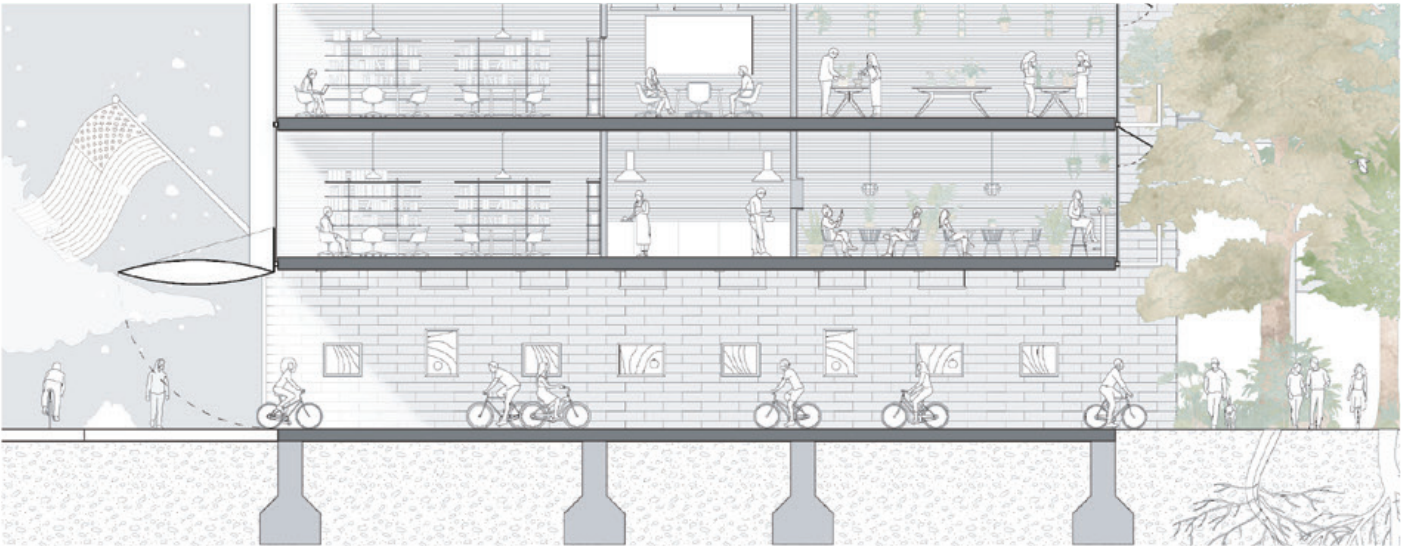
- 01. Bike Lane
 - 02. Daylit Interior Space
 - 03. Green Roof Terrace
 - 04. Open Rooftop
 - 05. Covered Balcony
- a. Vegetation CO₂ Exchange
b. Air Circulation Corridor
c. Solar Gain Control



Open Balcony: Inner-block-facing balconies remain usable in winter, supporting outdoor activities and plant growth.



Open Rooftop: Underutilized rooftops provide soil depth for trees while creating semi-open communal spaces.

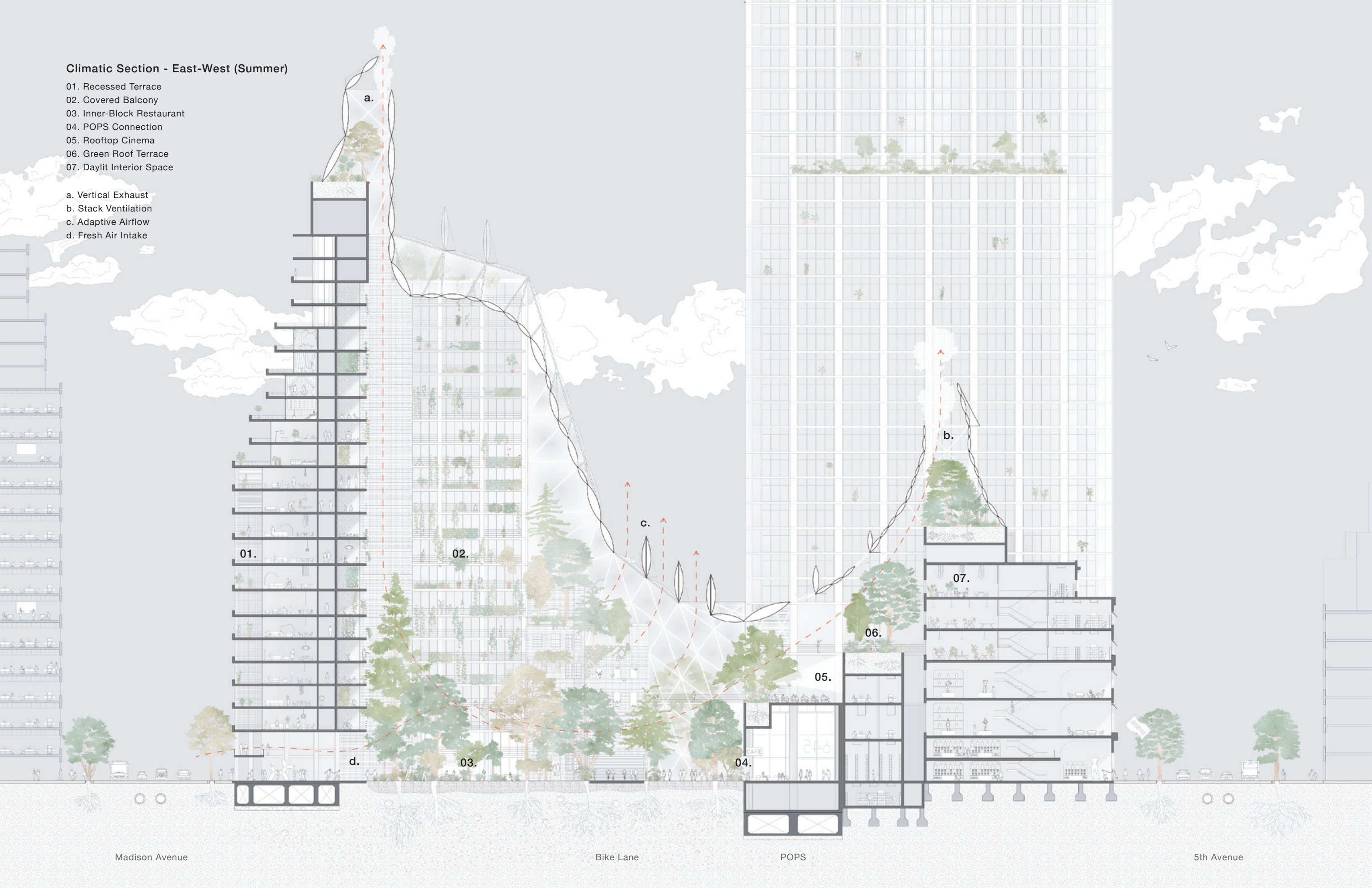


Operable Windows: Left side responds seasonally, while right inner-block openings support year-round ventilation and activity.

Climatic Section - East-West (Summer)

- 01. Recessed Terrace
- 02. Covered Balcony
- 03. Inner-Block Restaurant
- 04. POPS Connection
- 05. Rooftop Cinema
- 06. Green Roof Terrace
- 07. Daylit Interior Space

- a. Vertical Exhaust
- b. Stack Ventilation
- c. Adaptive Airflow
- d. Fresh Air Intake

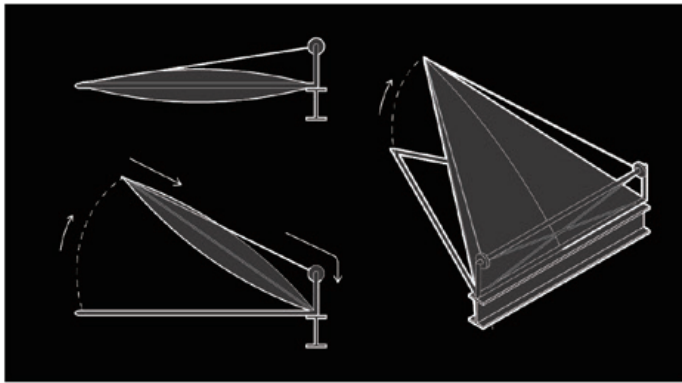


Madison Avenue

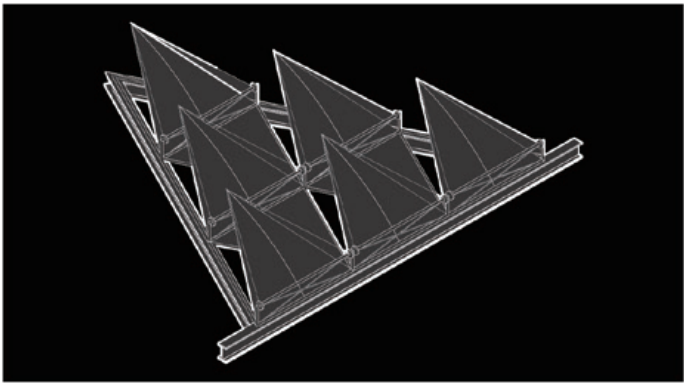
Bike Lane

POPS

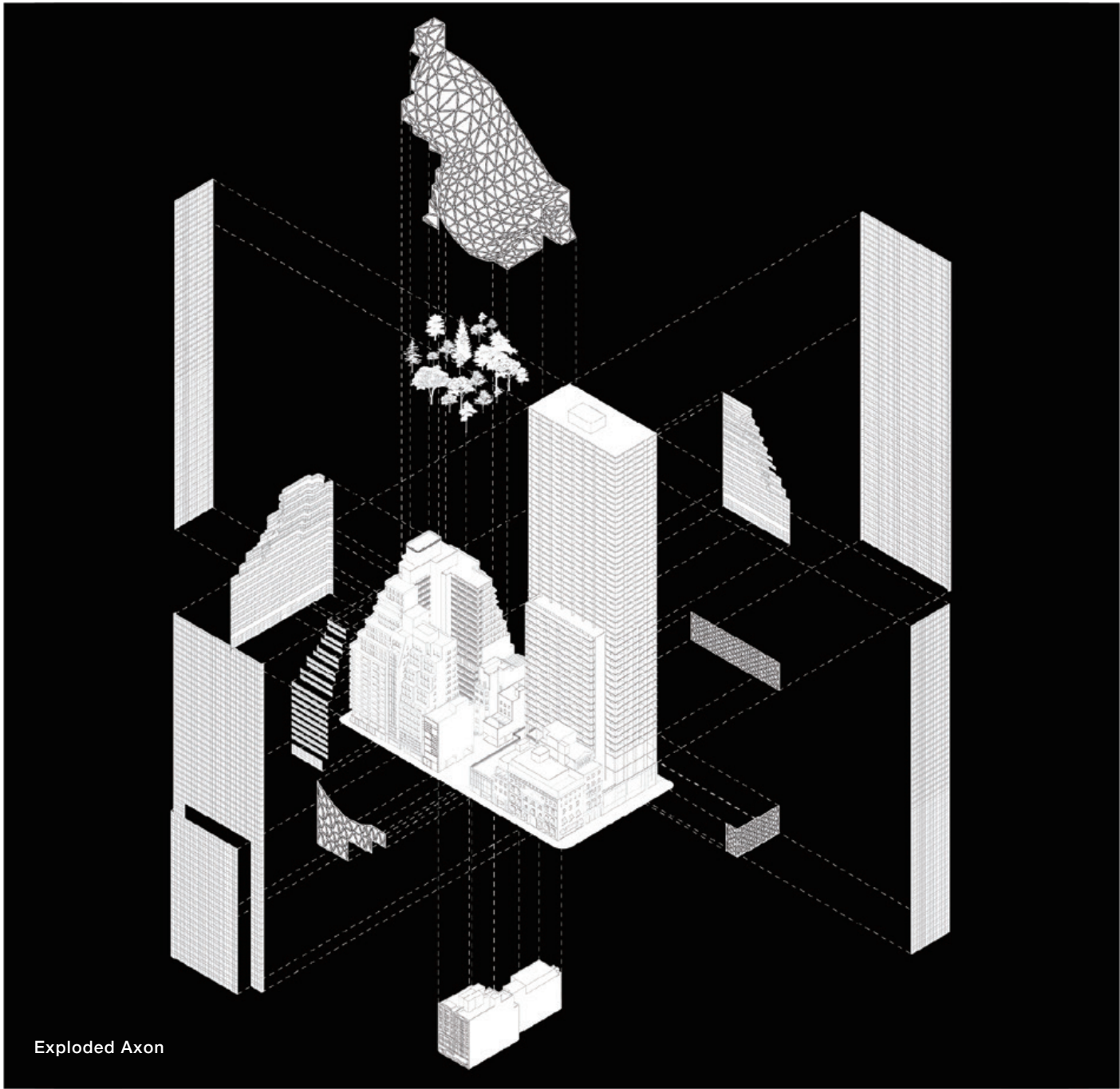
5th Avenue



ETFE Module



ETFE Assembly



Exploded Axon



Midtown Block Re-edition
Physical Model 1/250

By covering inner blocks with an ETFE canopy, this strategy becomes a new urban typology that can be replicated across Midtown, transforming previously neglected spaces into active, inhabitable environments.

3 Corner Without (B)order

Non-Binary Habitable Landscape

Year Spring, 2026
Critic Fernanda Canales, Foteini Kallikouni
Partner Ching-Chen Liu
Site CDMX, Mexico

Academic

Chamfered street corners in Colonia Doctores are reinterpreted as an expanded spatial system. Through observation, corners and tianguis markets are understood as informal public infrastructures. By introducing porosity, flexible boundaries, and vertical extensions, the design unfolds corner conditions into the building, creating a continuous environment where public and domestic life overlap, supporting collective living within a shifting urban context.

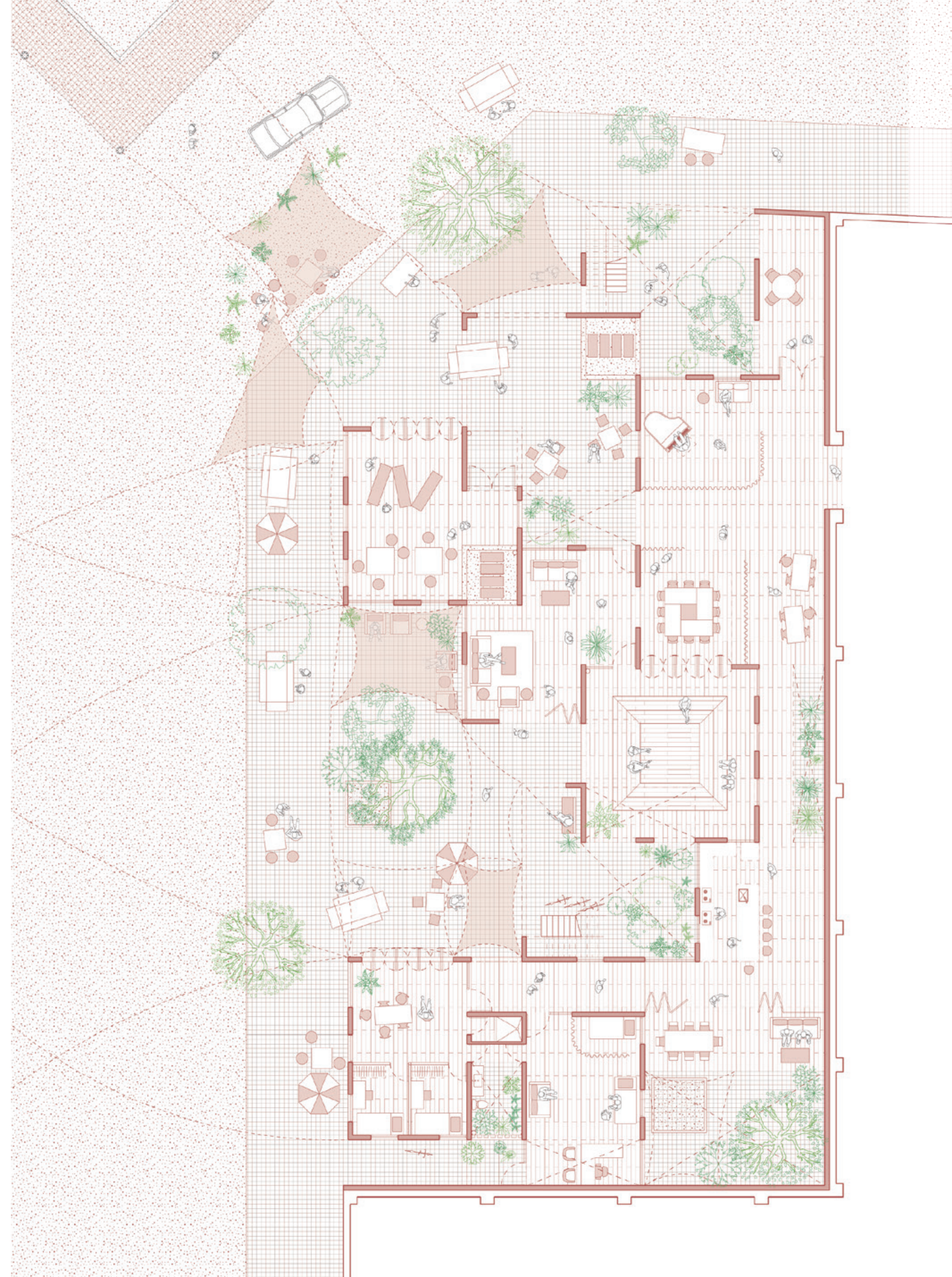
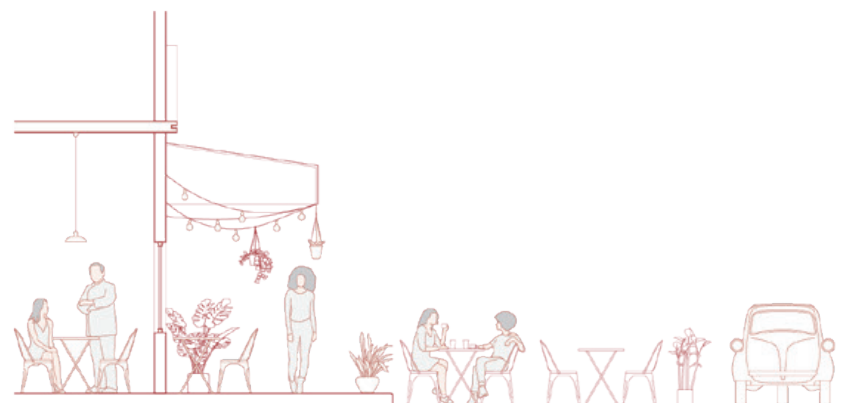
Corner 01: Adaptable Territory



Corner 02: Organic Growth

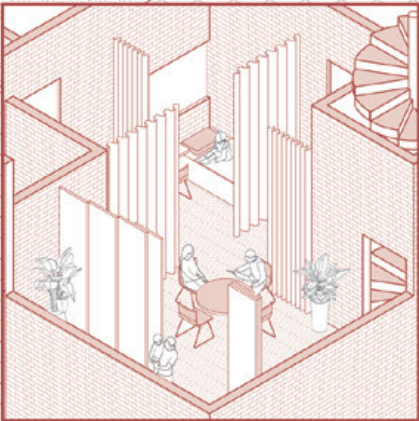
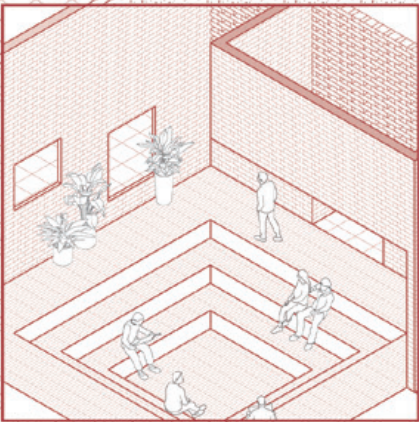
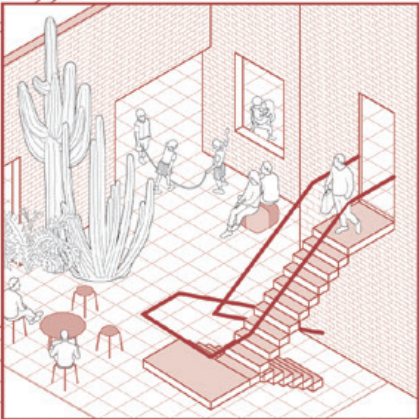
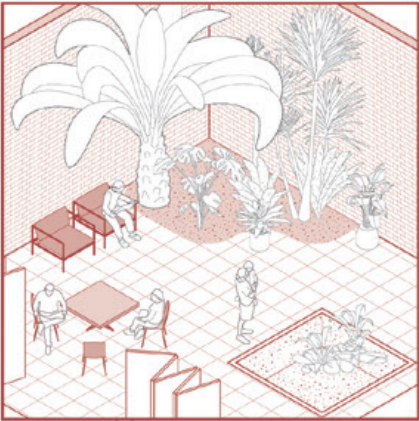


Corner 03: Expandable Restaurant



Unfolding the Corner Moment

Corner conditions extend beyond the plan into vertical space, unfolding into the interior to establish non-binary spatial relationships. These interconnected zones support multiple forms of shared activity, dissolving boundaries between programs and enabling a continuous gradient between public and domestic space.





1/100 Final Model



Corner Housing A

A continuous horizontal field extends across the ground, connecting interior and exterior spaces into an interconnected spatial system. Living is no longer organized as discrete units, but as a sequence of overlapping conditions that blur the boundary between private and collective domains.



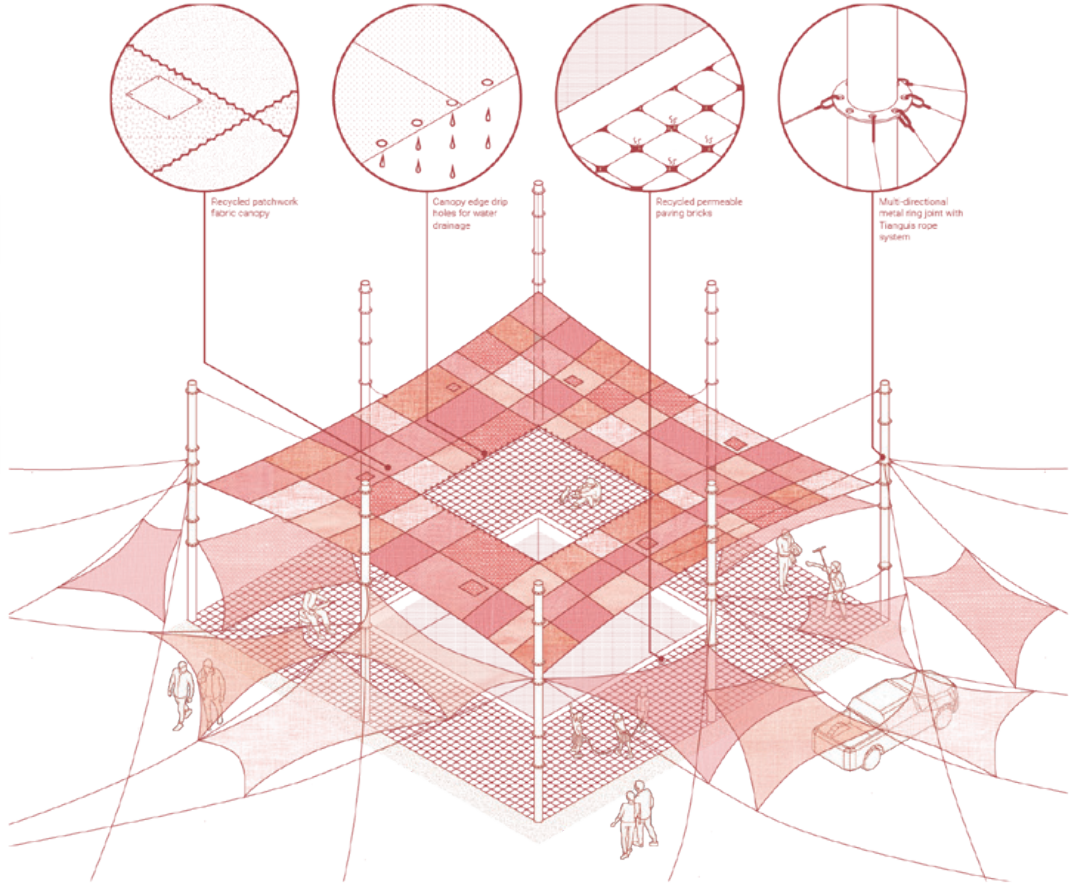
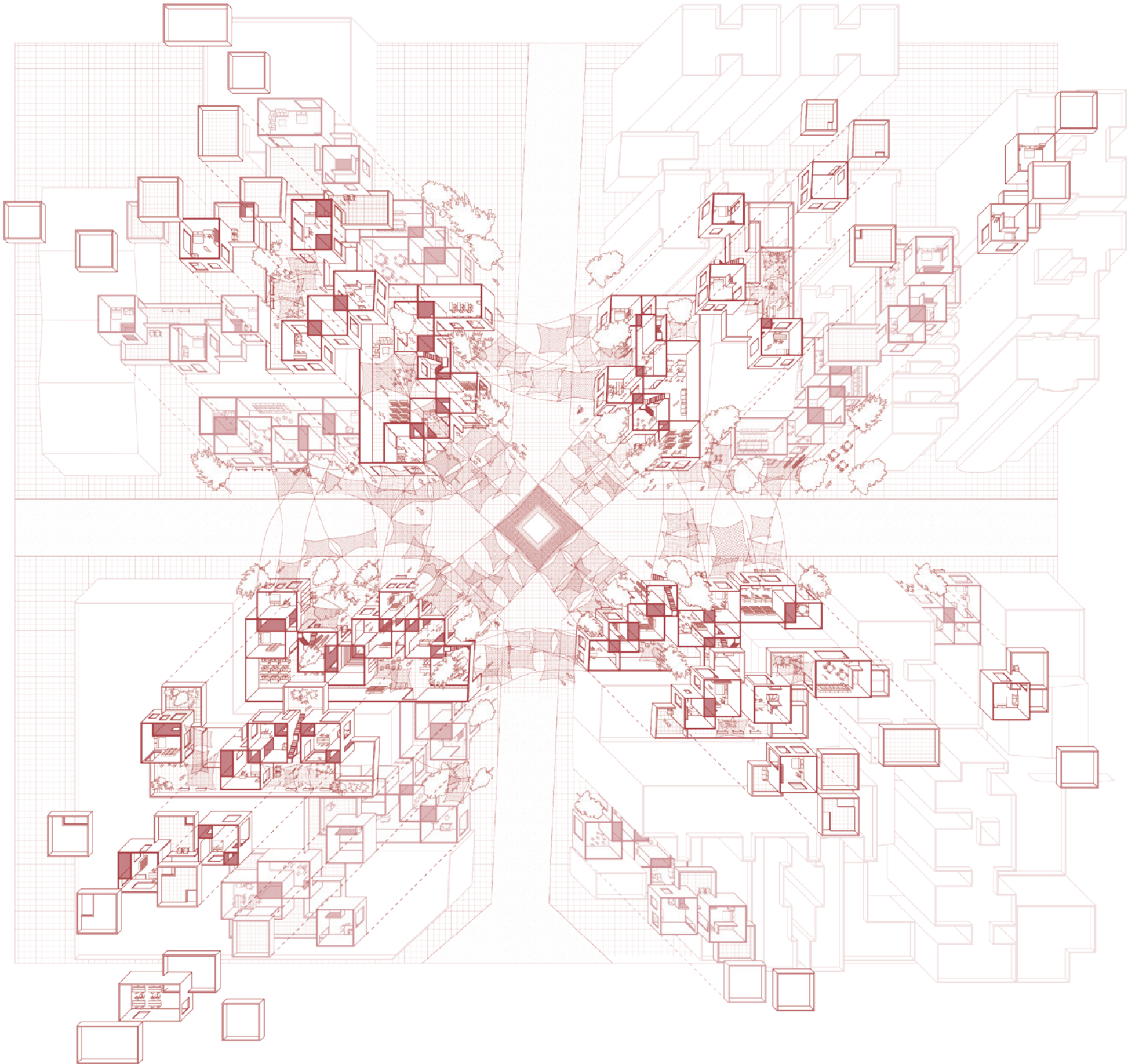
Corner Housing B

The intersections between volumes generate a series of vertical voids that operate as light wells, water-related spaces, and circulation. These spaces introduce porosity within the building, allowing environmental and social flows to move through rather than being contained.

“Tianguis” Plaza

The tianguis plaza extends the spatial logic of the corner into the urban scale. Temporary structures, informal markets, and daily activities occupy and transform the ground, turning the corner into an adaptable collective territory rather than a fixed boundary.

Urban Expansion of the Corner System



Tianguis Structural Logic
A modular tianguis system is introduced at key intersections, integrating lightweight structures and a fountain to support flexible occupation, gathering, and rest.

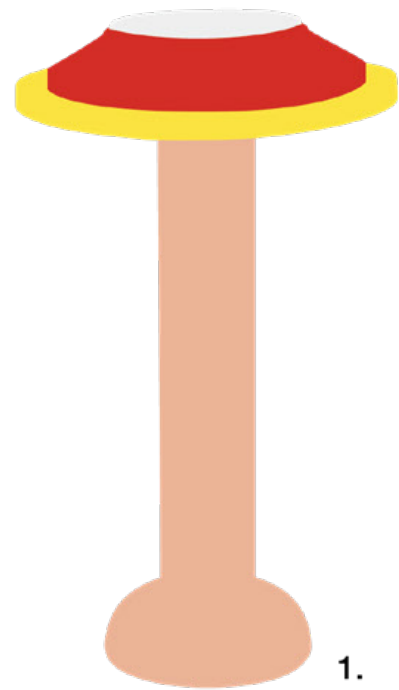


Tianguis, CDMX
A traditional tianguis operates as a vendor-driven system, generating temporary, linear market spaces embedded in everyday urban life.

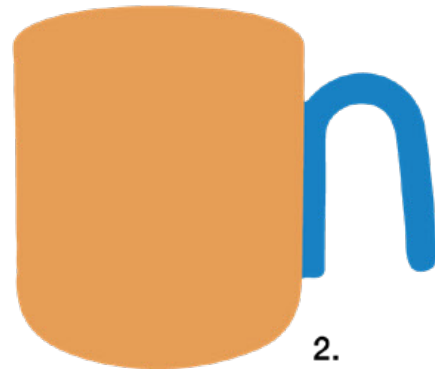
4 Home Is Portable Self Portrait

Year Spring, 2026
Critic Wael Morcos
Elective Multi Graphics & Representation

Presented through three posters, this self-portrait uses five everyday objects carried between Taipei and New York to explore how routines, memory, and temporary domestic spaces shape my understanding of architecture. Together, these objects reflect a life defined by movement, adaptation, and the quiet systems of daily living that influence how I inhabit and perceive space across cities.



1.



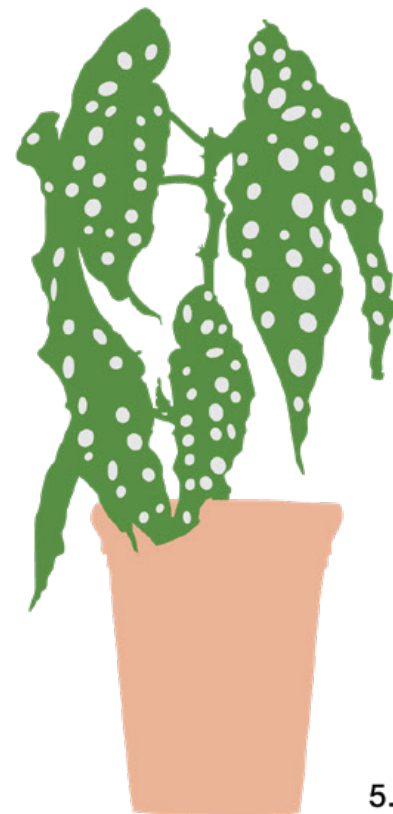
2.



3.

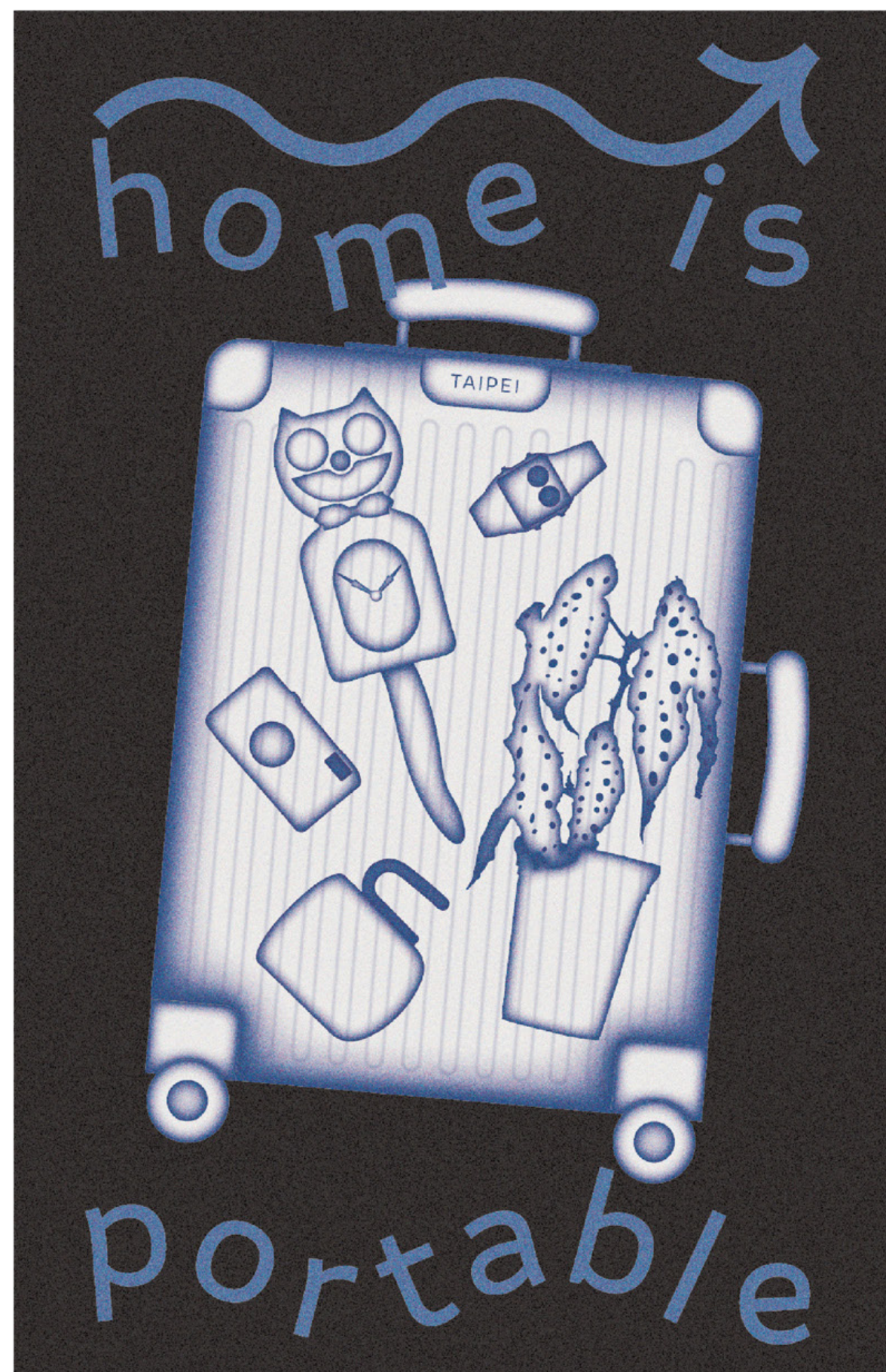


4.



5.





5 Moments of Inhabitation

Observations of People in Space

Year Fall, 2025

Critic Michael Vahrenwald

Elective Architectural Photography

This photography series documents four architectural spaces — Grace Farms, Kunstmuseum Den Haag, Lenox Health Greenwich Village, and The Met Cloisters — capturing the shifting relationship between people and architecture. Sometimes they are simply passing through, sometimes inhabiting or using the space, moving between inside and outside. Through these fleeting moments, the series observes how people temporarily occupy and inhabit architectural space.



