

something for *someone*, *somewhere*
design people places

Eleanor Lucas Birle
Columbia University GSAPP
Master of Science in Architecture
2020 - 2023

Studio:

03-22	The Echo: Deconstructing the Nonexistent Brooklyn Museum	Advanced VI	2023
23-40	Public Library/Cooling Center	Advanced V	2022
41-54	Transforming Seasonal Grounds	Advanced IV	2022
55-72	Collective Domesticity	Core III	2021
73-88	Reconstituted P.S. 64	Core II	2021
89-98	Navigable Schoolyard	Core I	2020

Electives:

99-102	Residential Curtain Wall	Tech V	2022
103-112	Twist	Transitional Geometries	2022
113-116	Work from Home	ADR II	2021
117-124	Responsive Facades	Tech III/IV	2021
125-132	Avery SPOT	The Outside In Project	2021



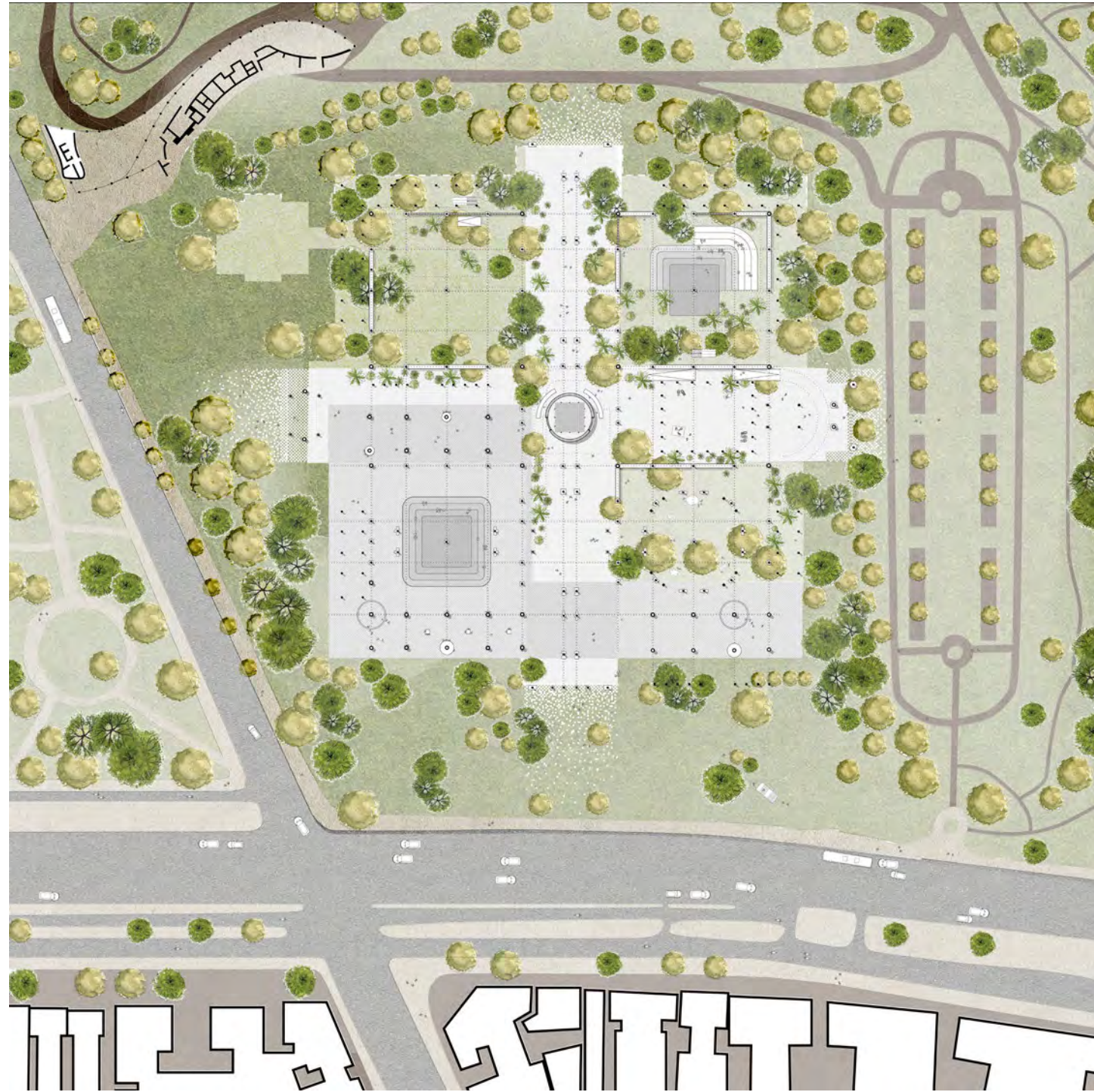
The *unfinished fragment* of the Brooklyn Museum is completed and de-monumentalized by spatializing interactions between the *humans, art, and nature* of *Brooklyn, New York*.



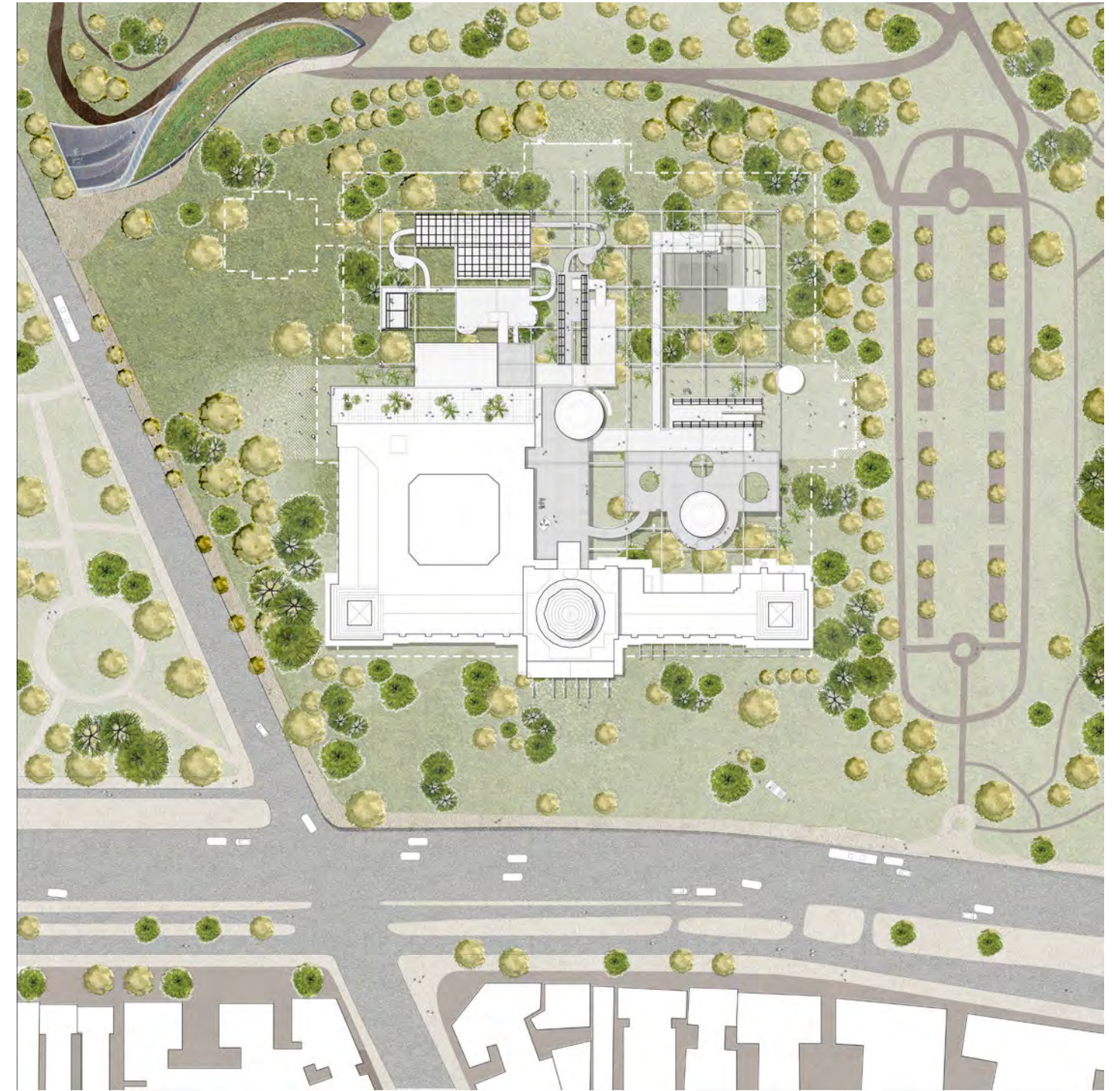
design proposal



sectional collage



ground floor plan

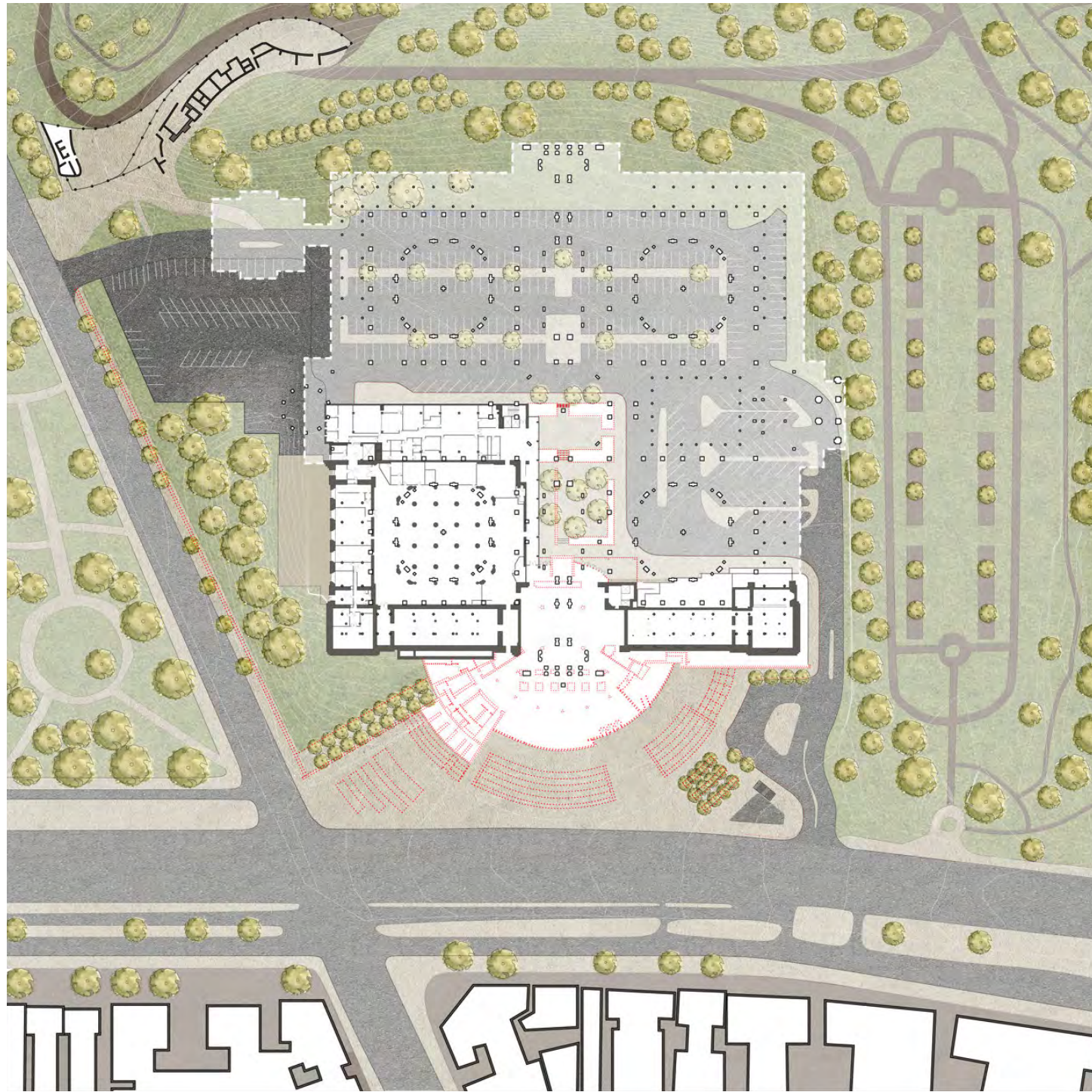


roof plan

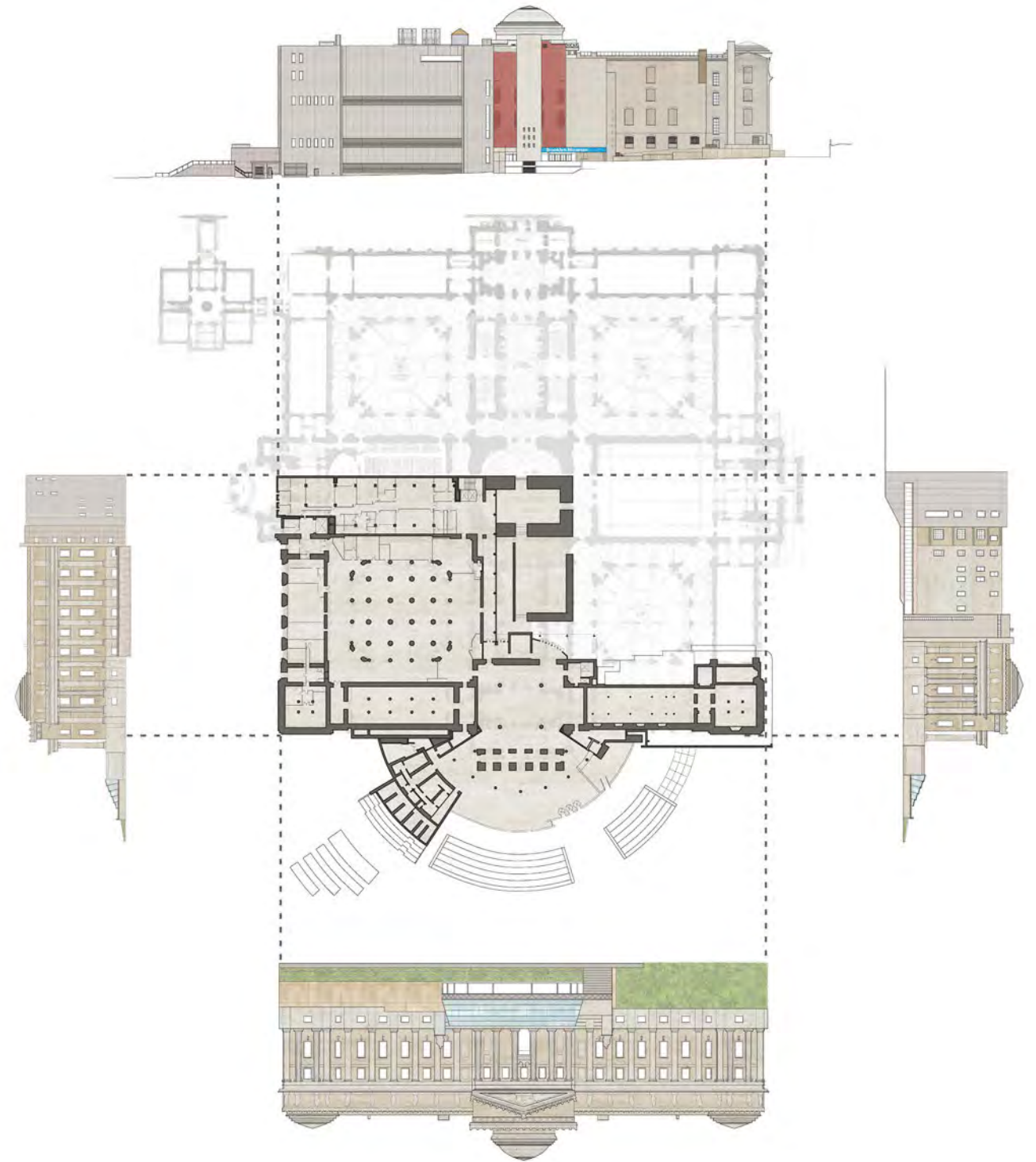


east-west section

from theater to amphitheater



existing and unbuilt plans



existing elevations



site plan



research



circulation



amphitheater



north-south section

from street to park



galleries



syntax

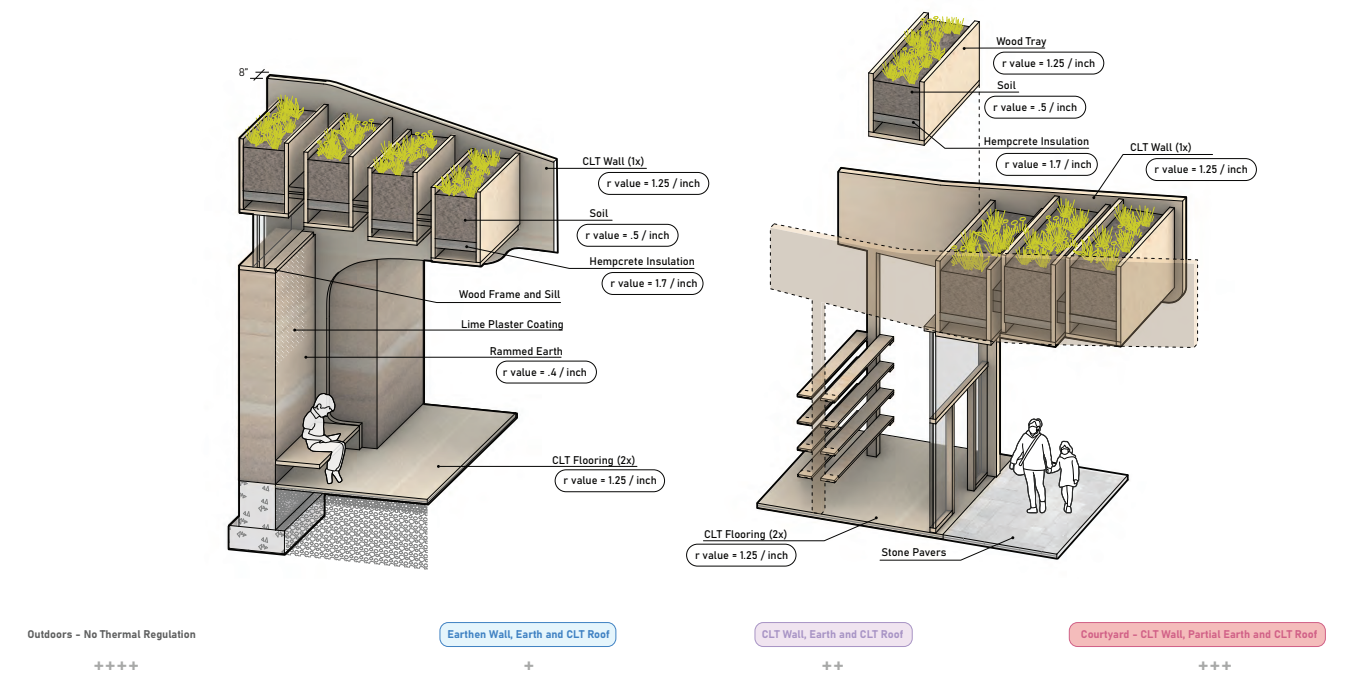


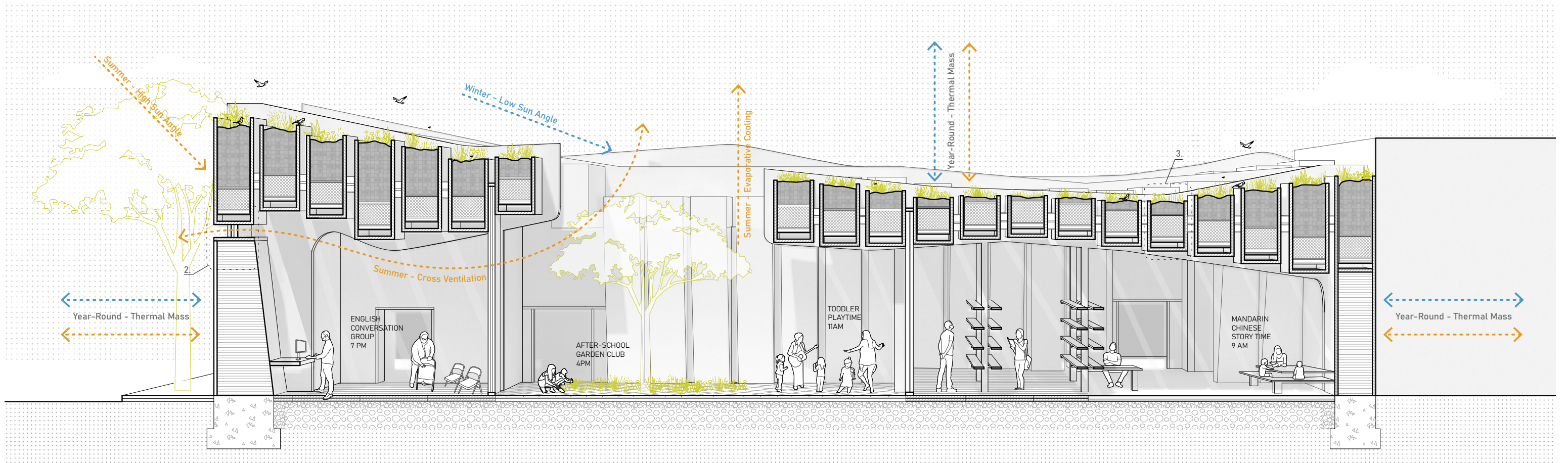
isometric

looking south

A *public library branch* uses *biomaterials and thermal mass* to mitigate rising temperatures in the *heat-vulnerable* community of *East Flatbush, Brooklyn*.

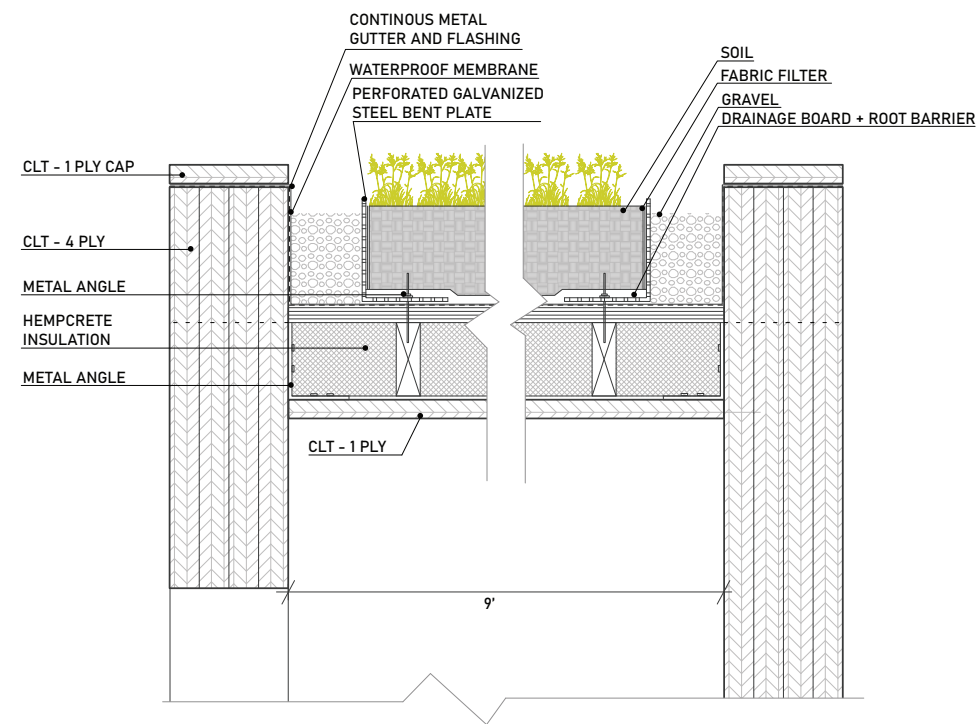
Public Library / Cooling Center
Advanced V, Fall 2022
Professor Marc Tsurumaki



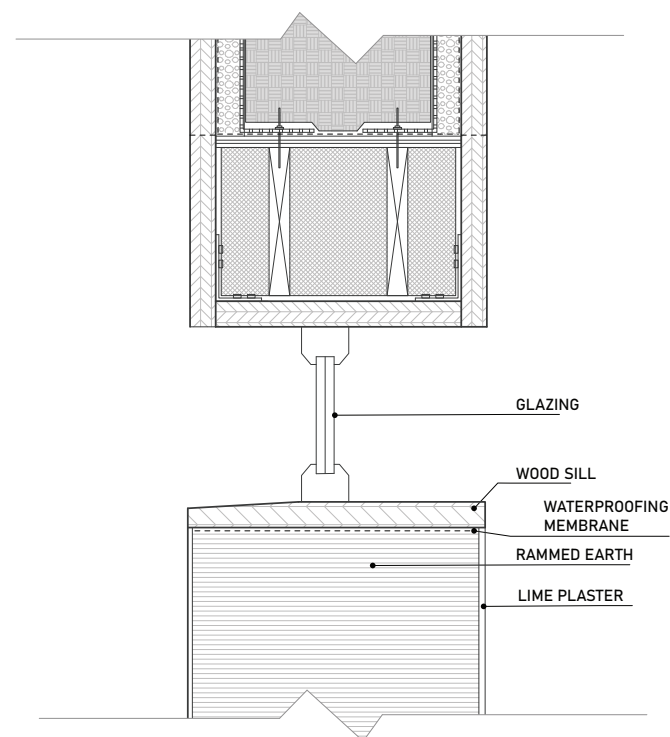


east-west section

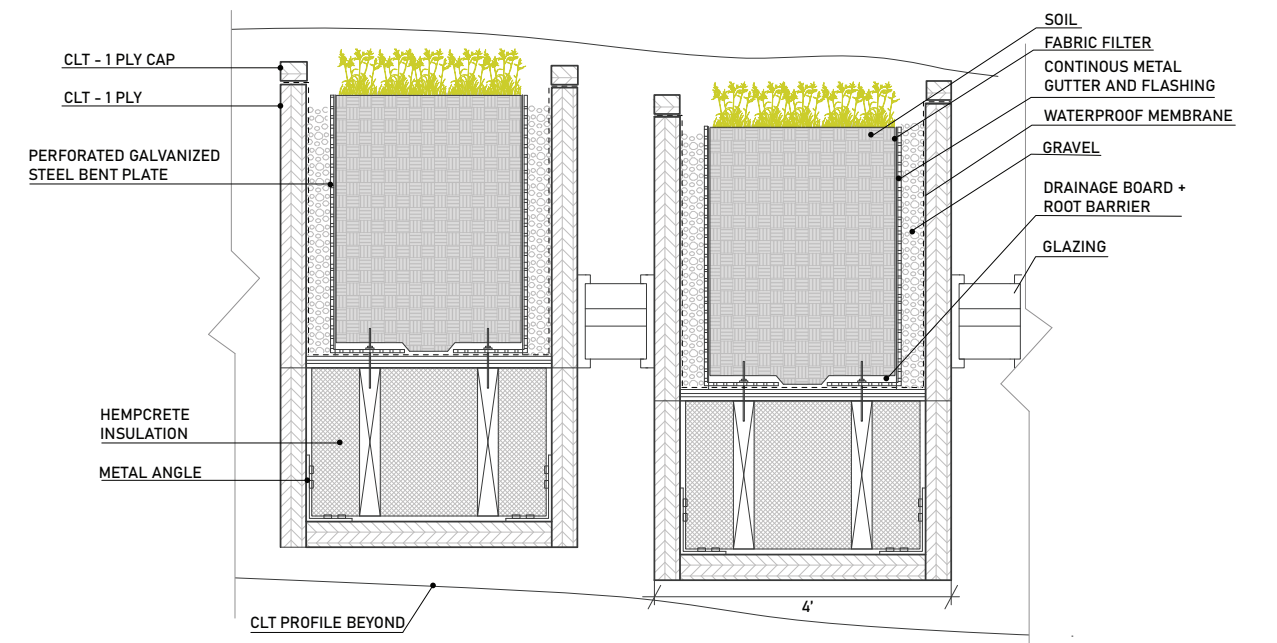
thermal performance



1. TYP. ROOF / CEILING DETAIL

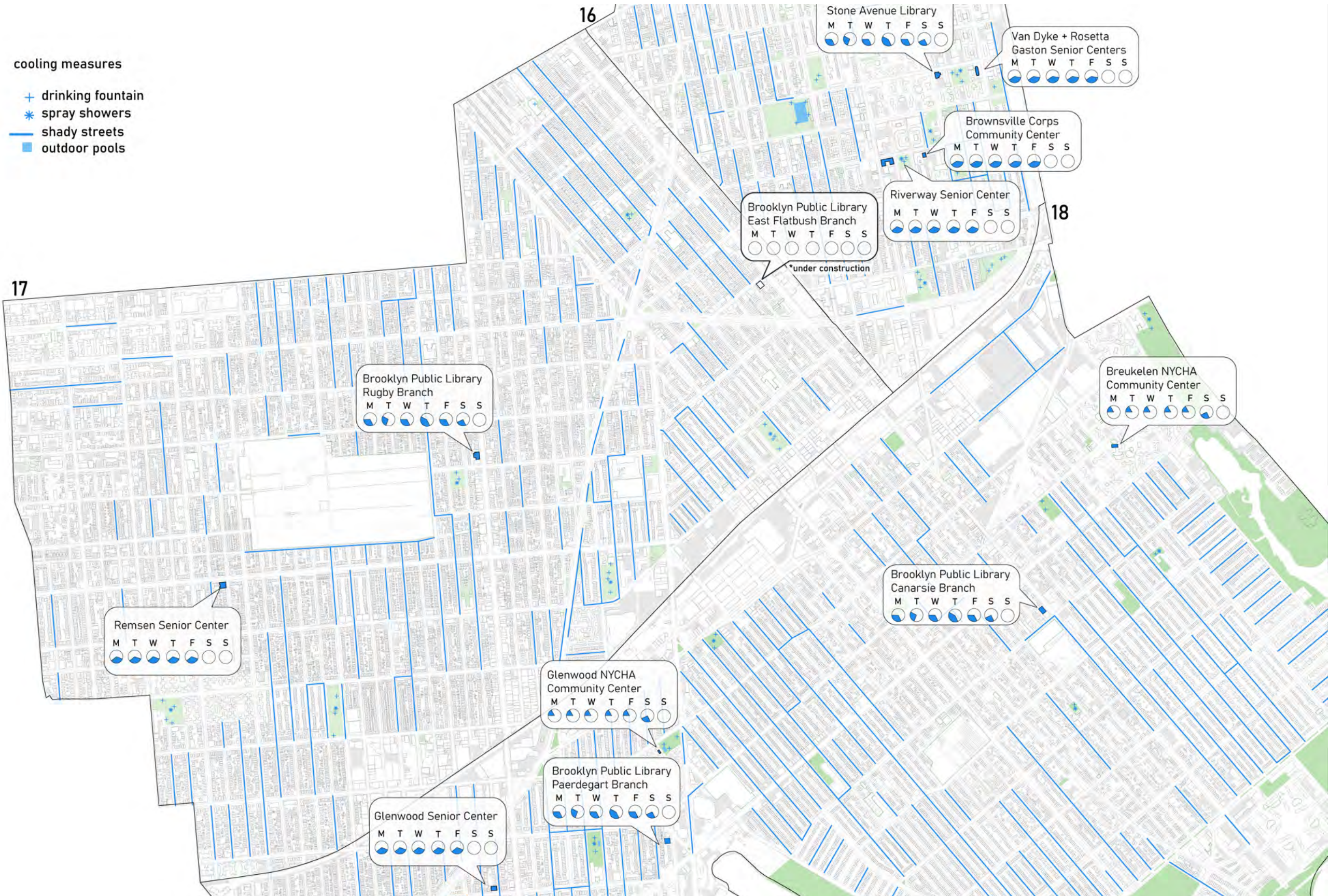


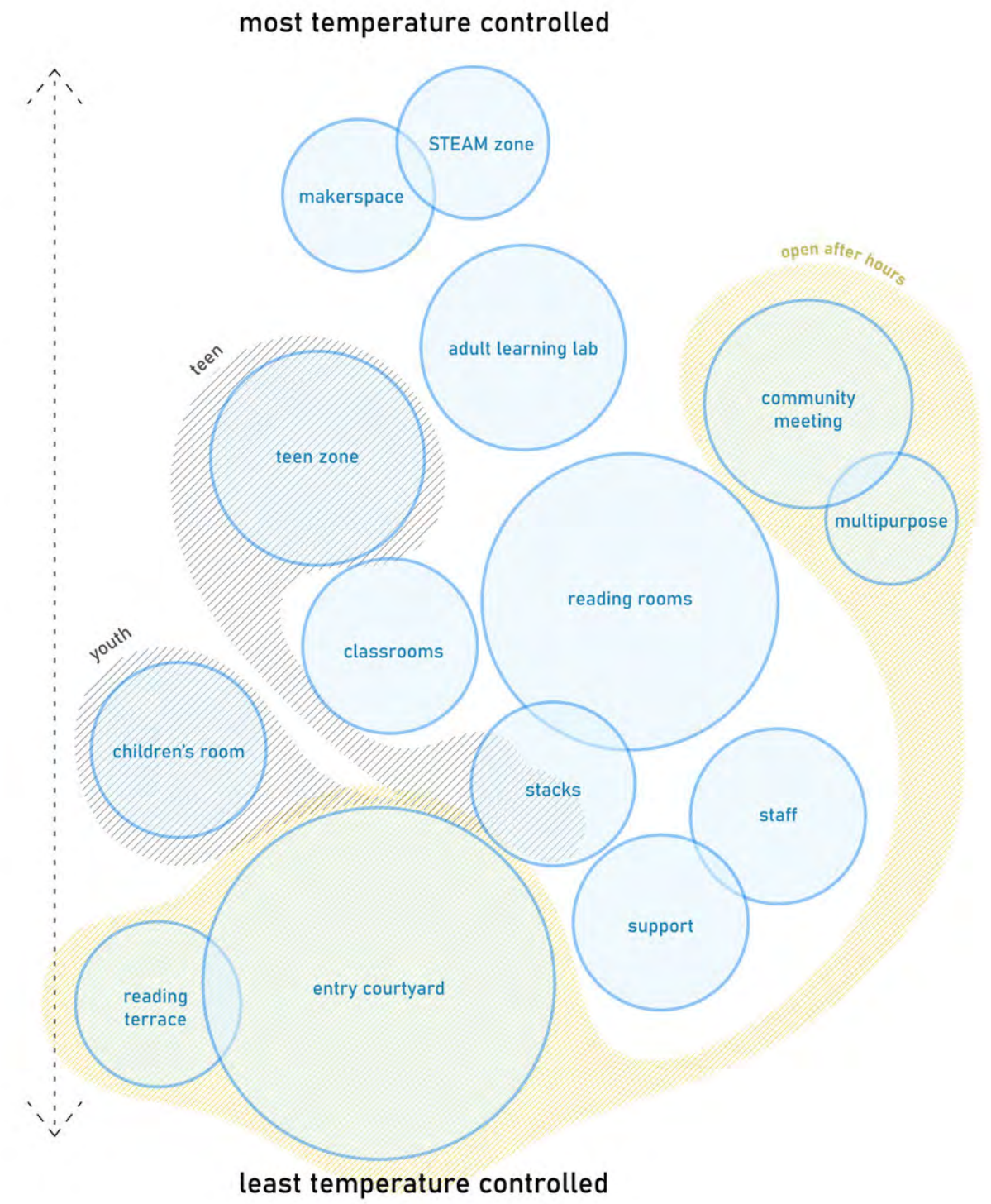
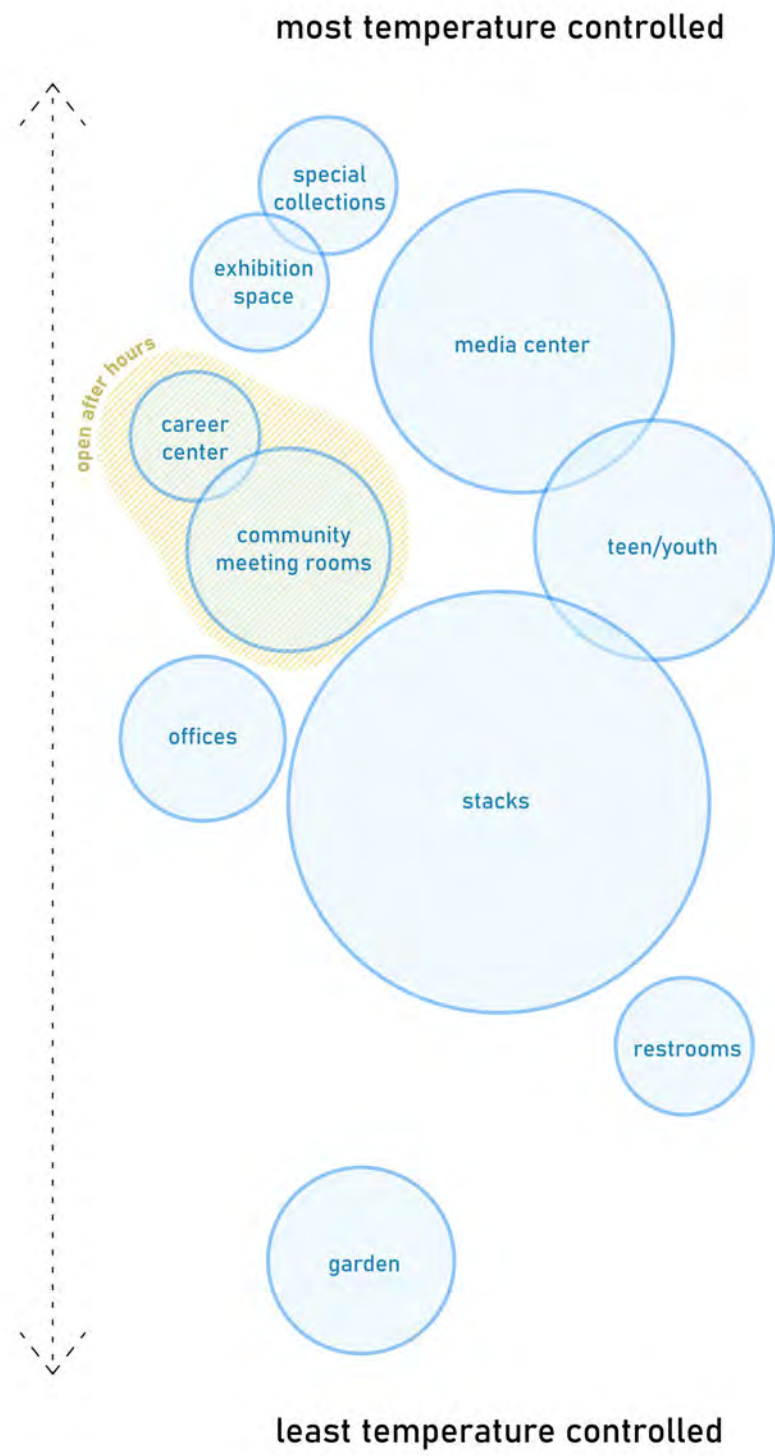
2. ROOF TO RAMMED EARTH PERMIETER WALL



3. TYP. ROOF / CEILING DETAIL

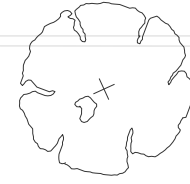
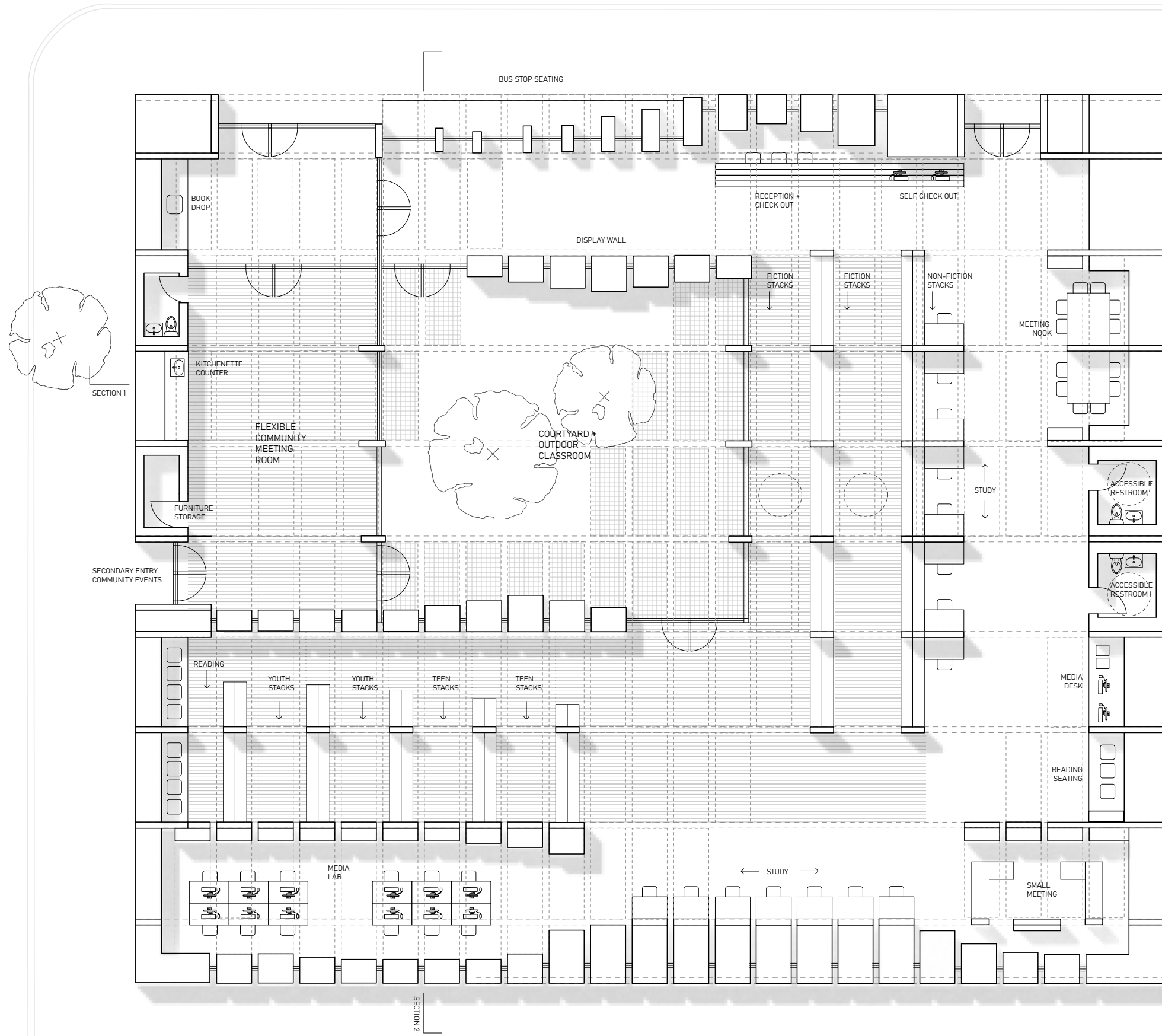
- cooling measures
- + drinking fountain
 - * spray showers
 - shady streets
 - outdoor pools



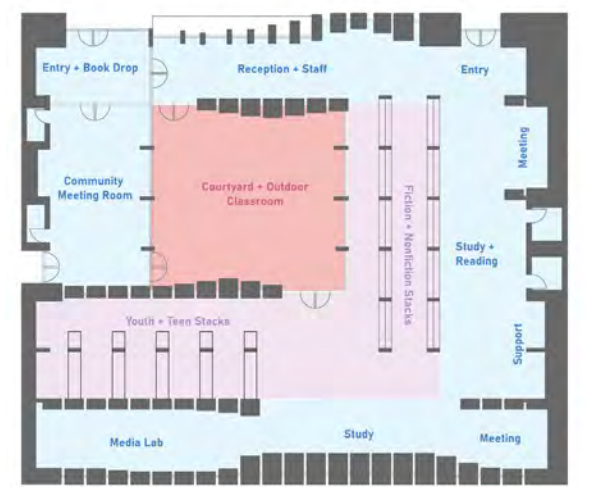


← CHURCH AVENUE →

← E 96TH STREET →



THE SCHULMAN AND
SCHACHNE INSTITUTE
ADULT DAY HEALTH CARE
PROGRAM

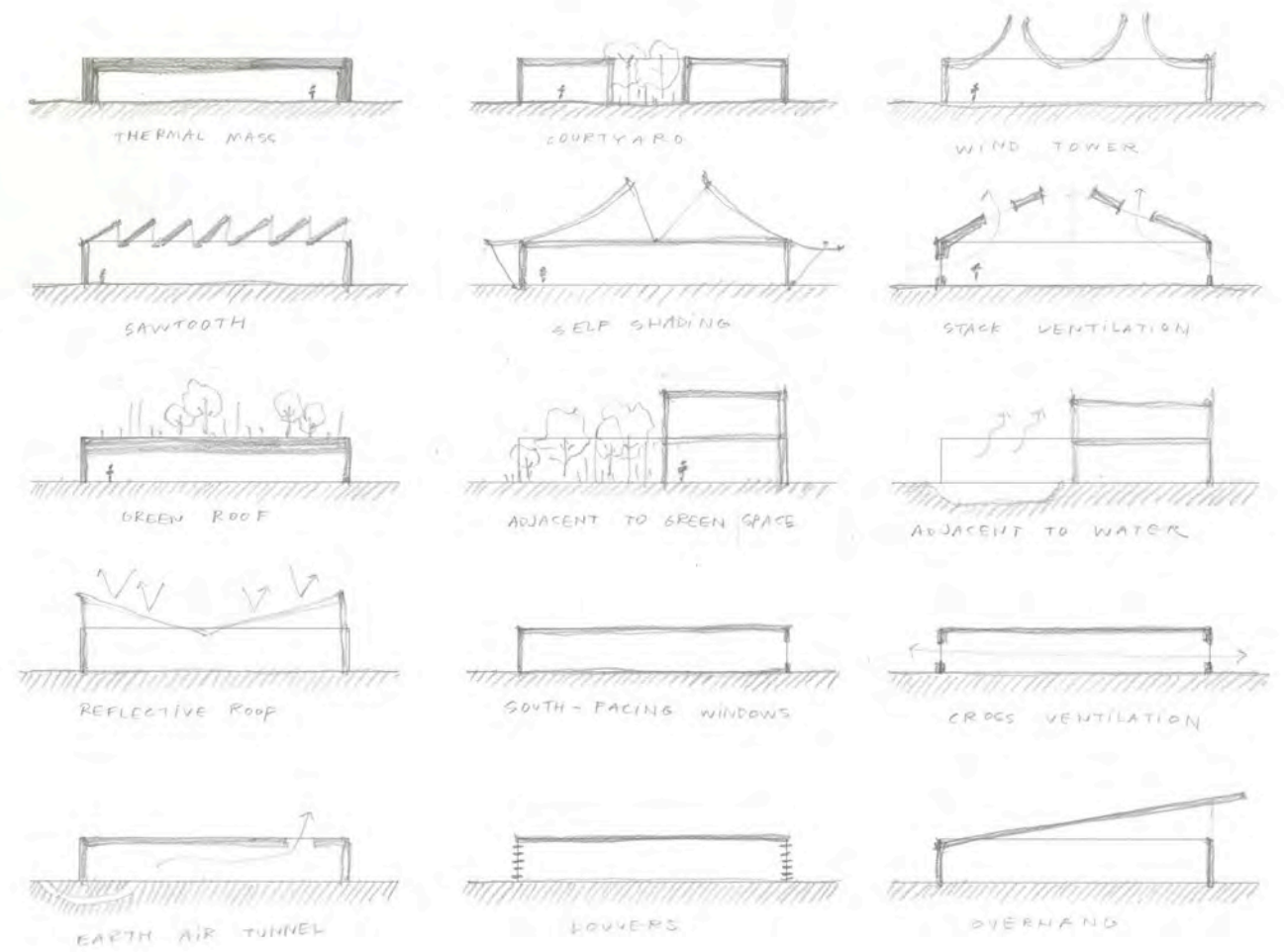


first floor plan

plan, temperature regions



study models



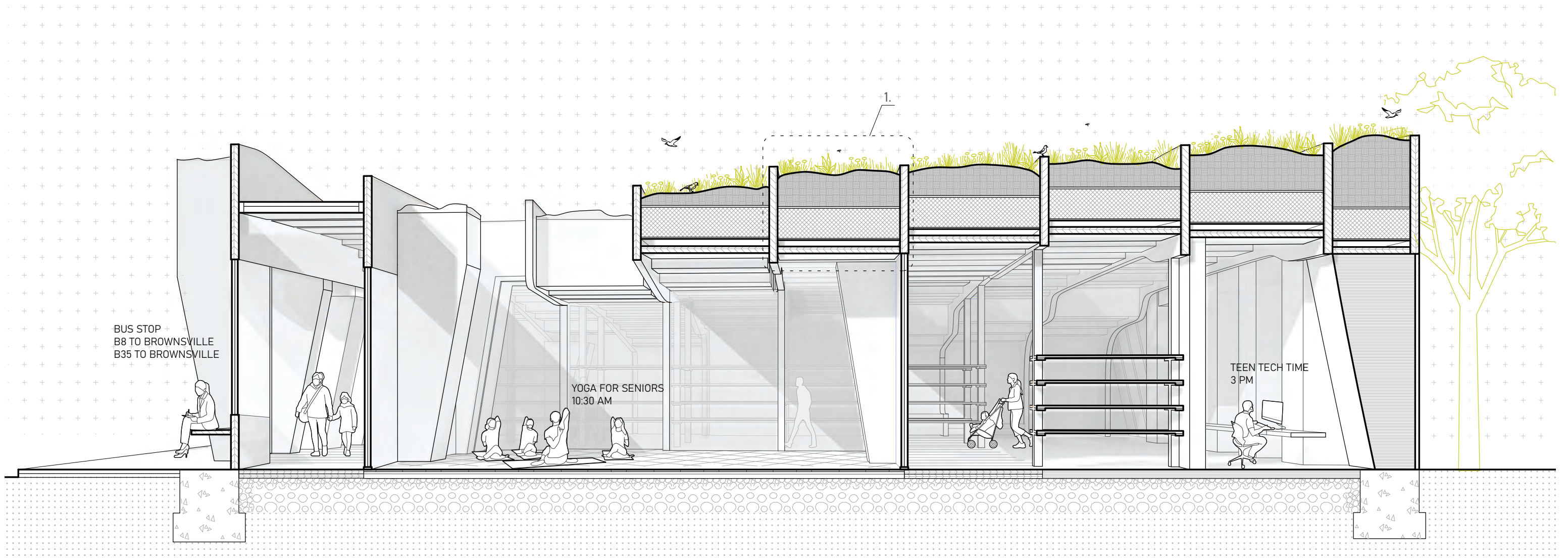
research, passive strategies



interior perspective, stacks



exterior perspective, entry



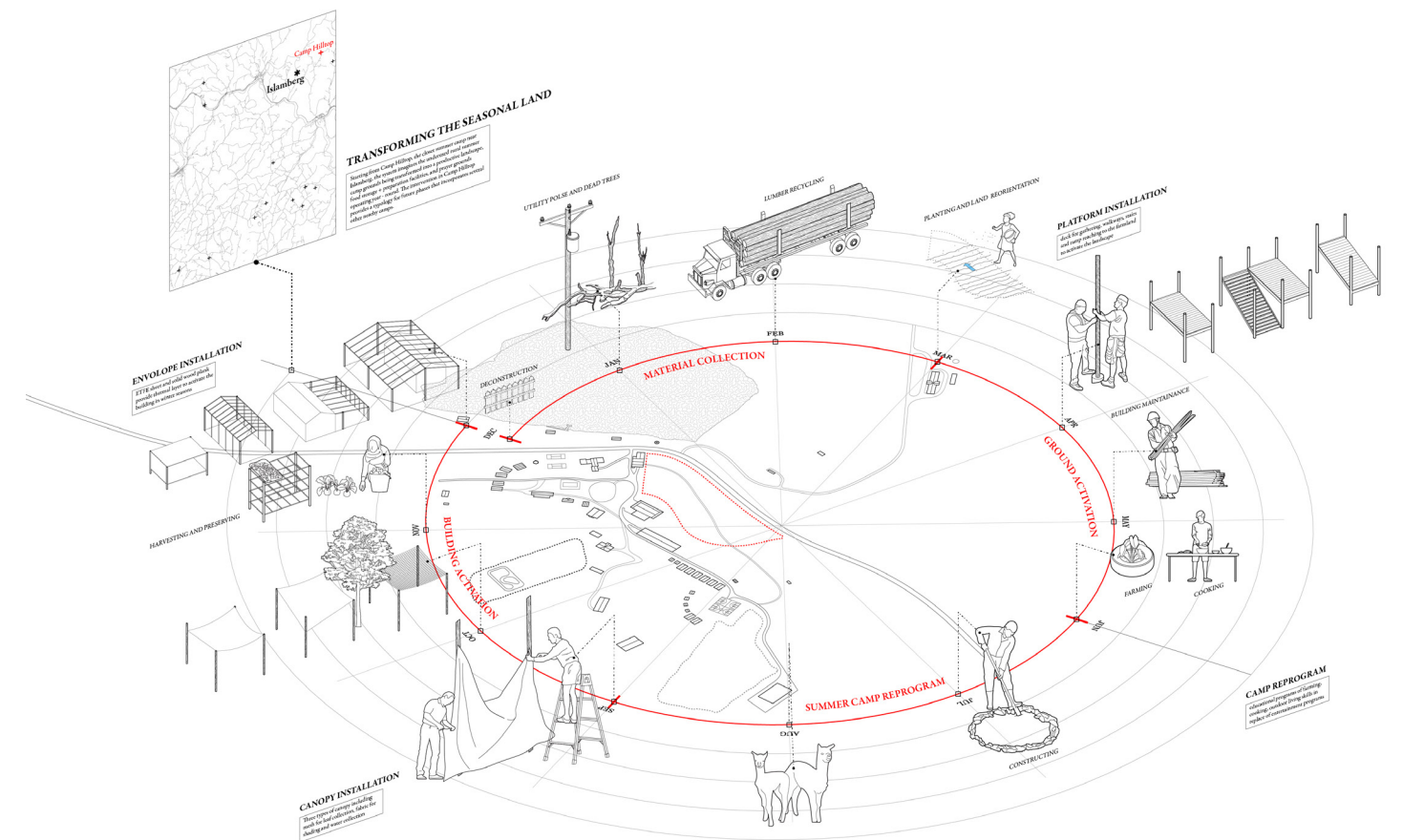
BUS STOP
 B8 TO BROWNSVILLE
 B35 TO BROWNSVILLE

YOGA FOR SENIORS
 10:30 AM

TEEN TECH TIME
 3 PM

north-south section

through courtyard

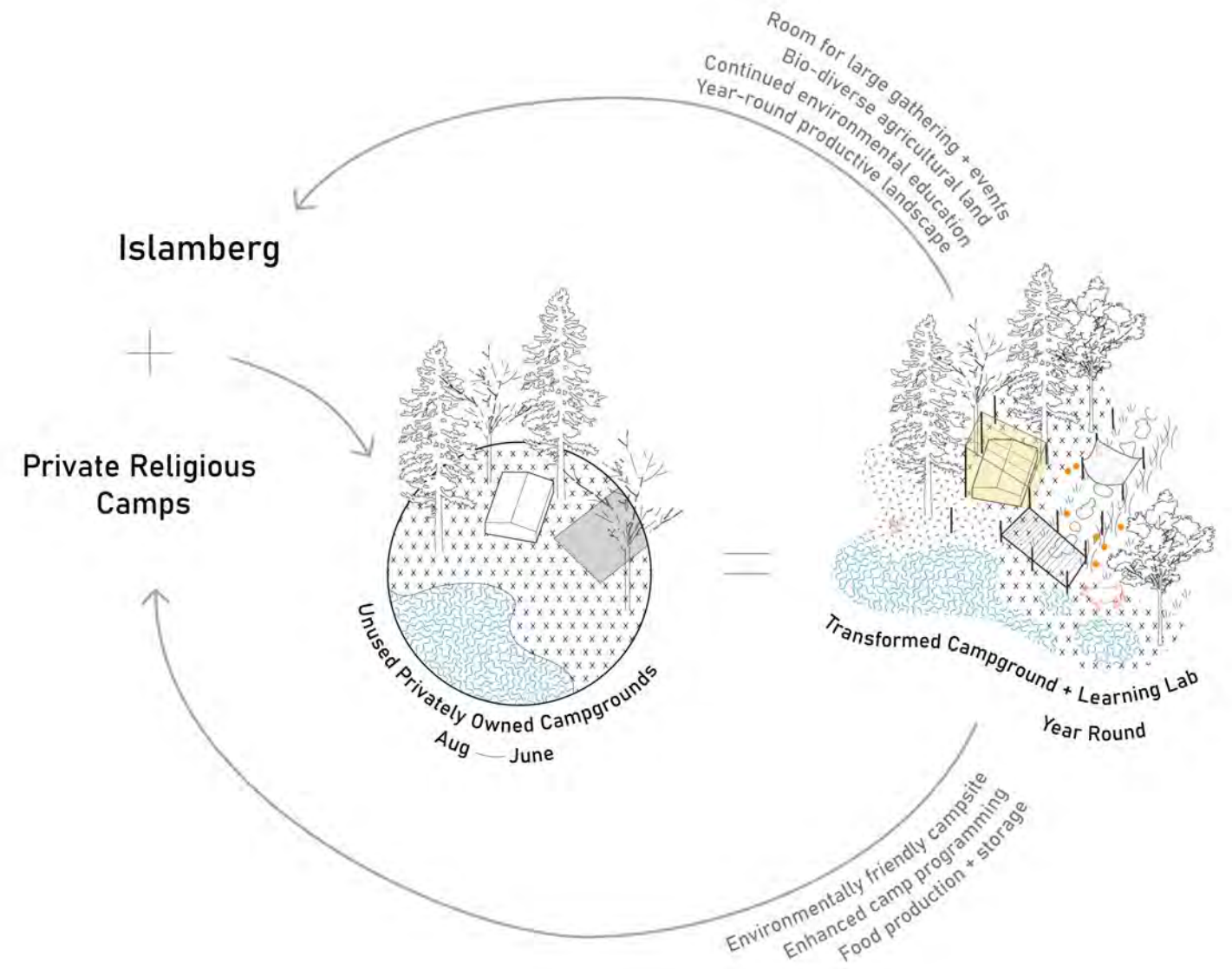


Underused summer campgrounds are transformed into a year-round *productive landscape and prayer grounds* for *interfaith neighbors* in *Northwest New York*

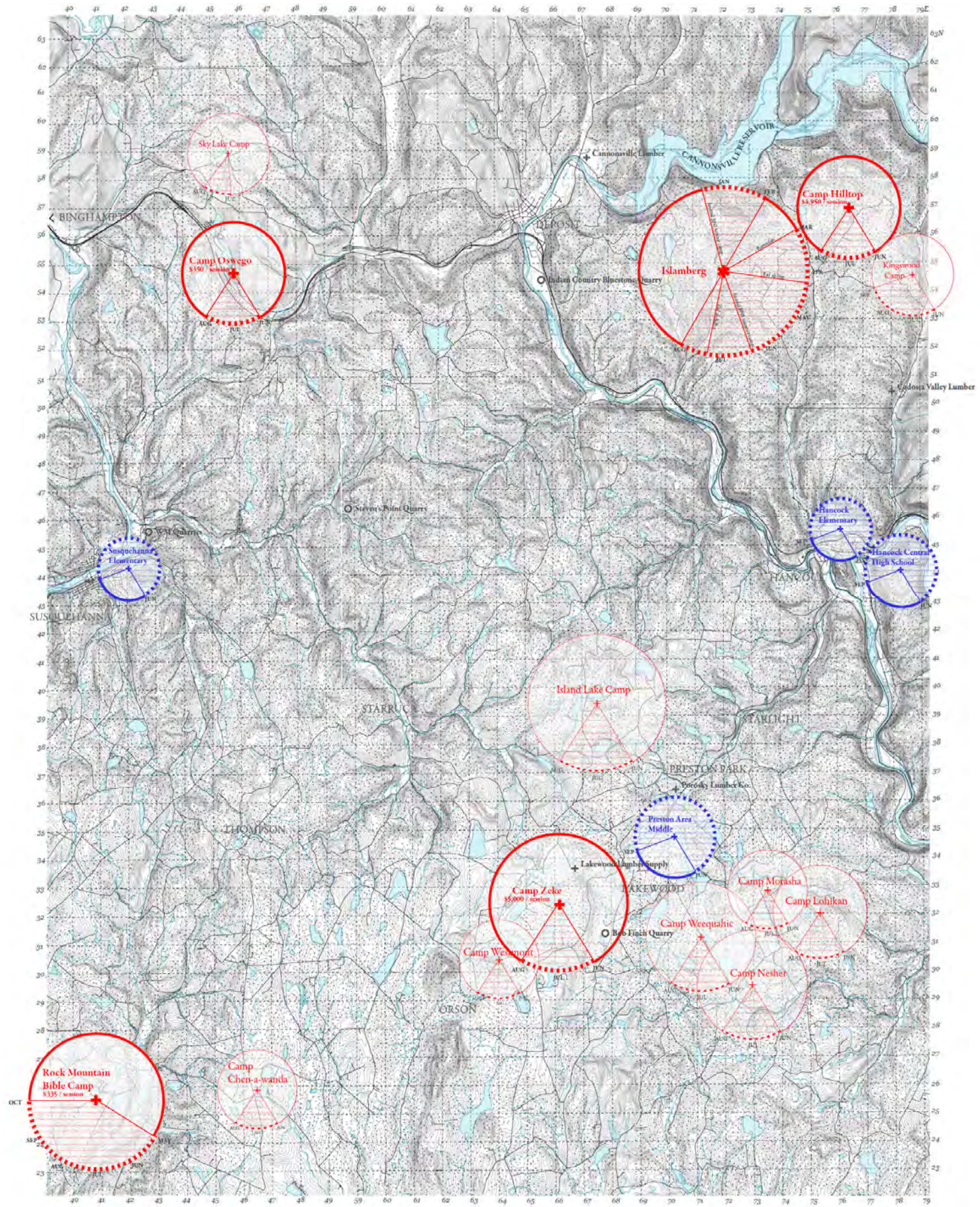
Transforming Seasonal Grounds
Advanced IV, Spring 2022
Professor Ziad Jamaledine
in collaboration with Maxine Gao



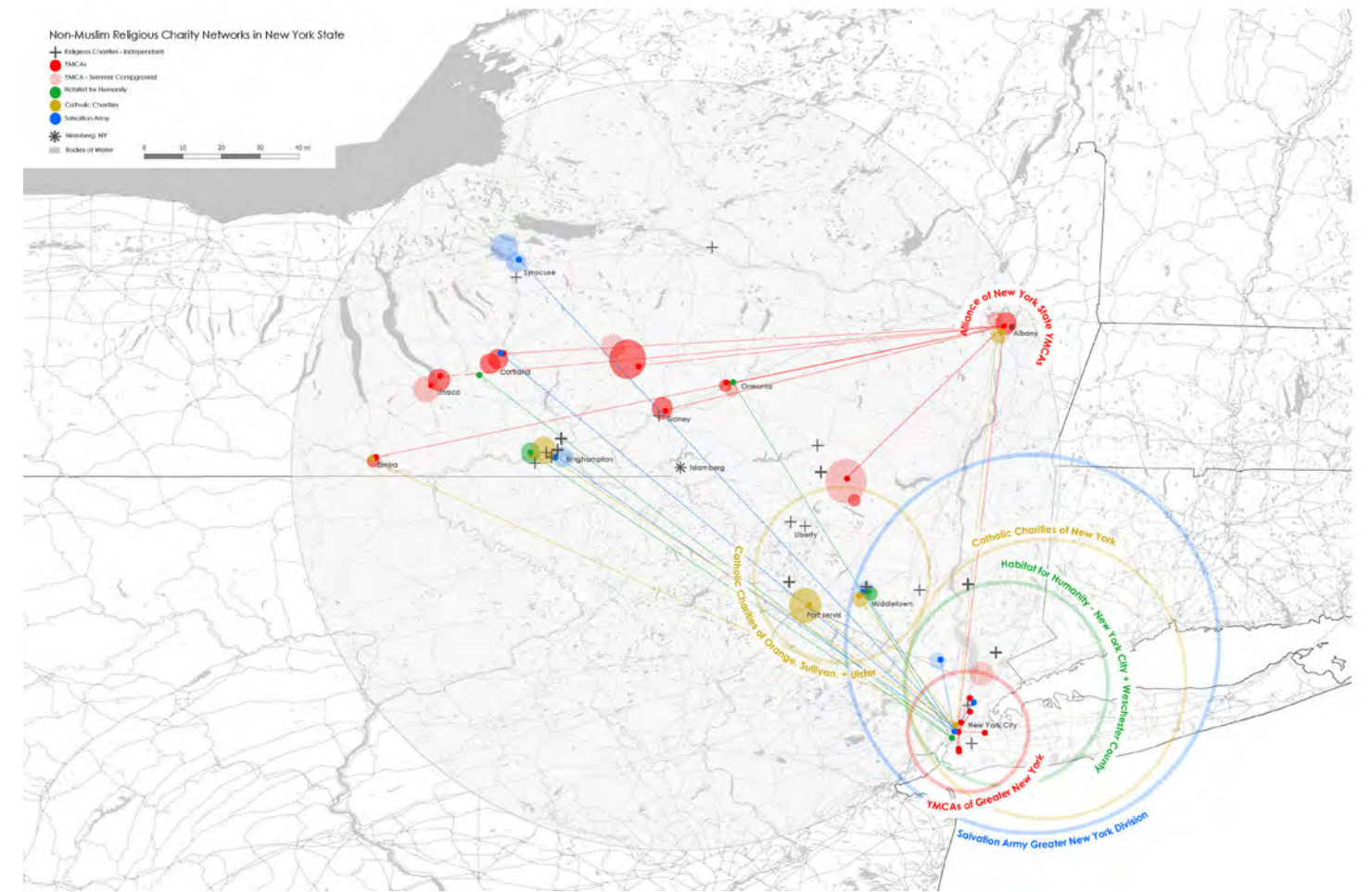
plan, summer



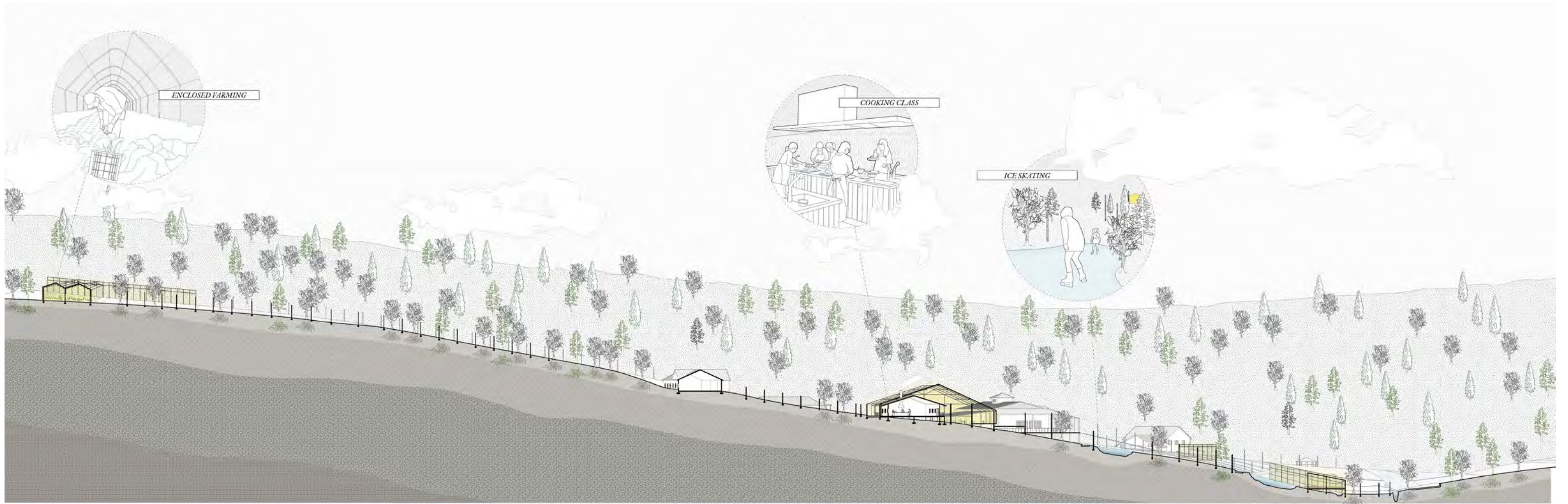
waqf concept diagram



research, campground cycles

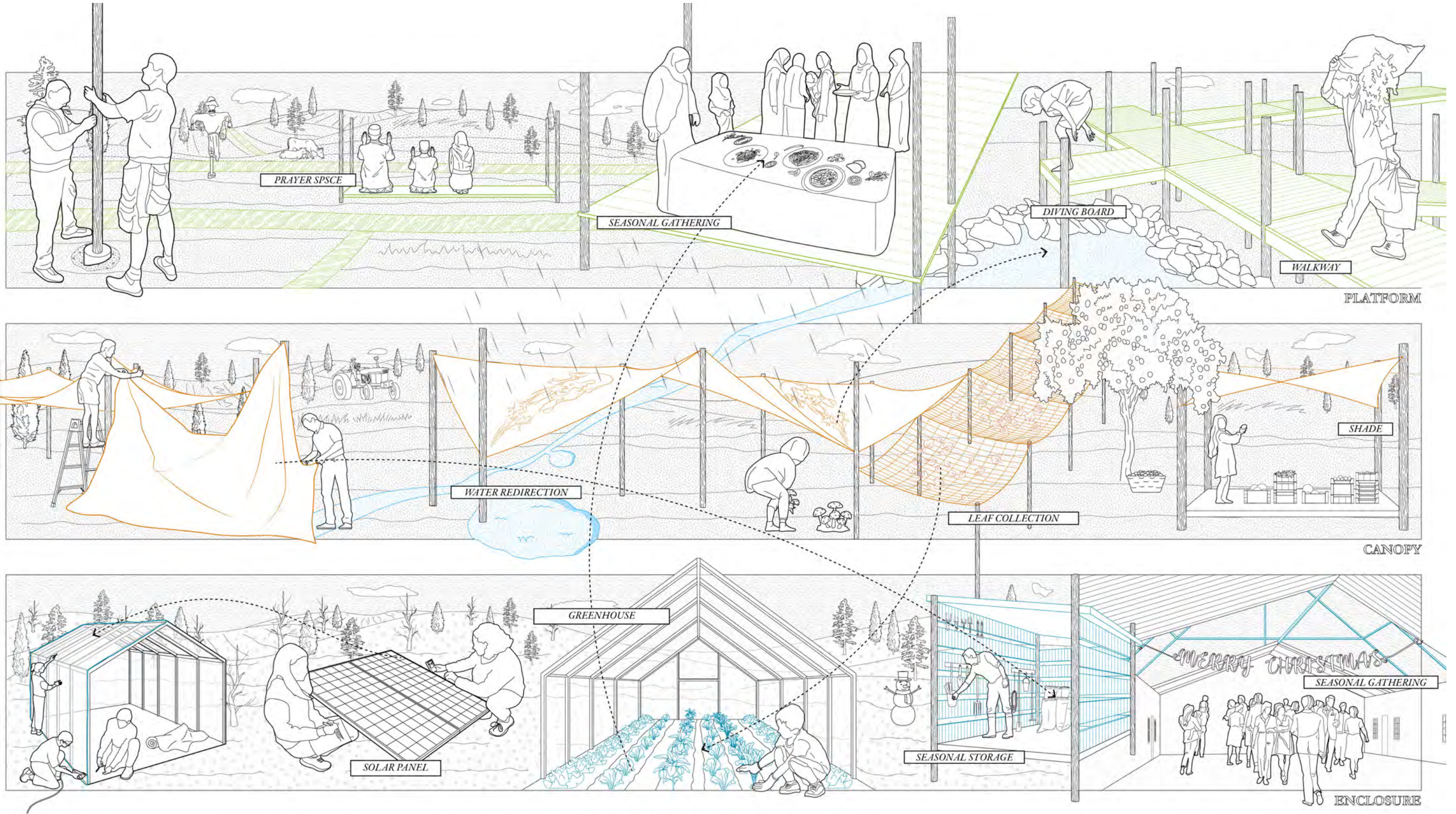


research, religious charity networks



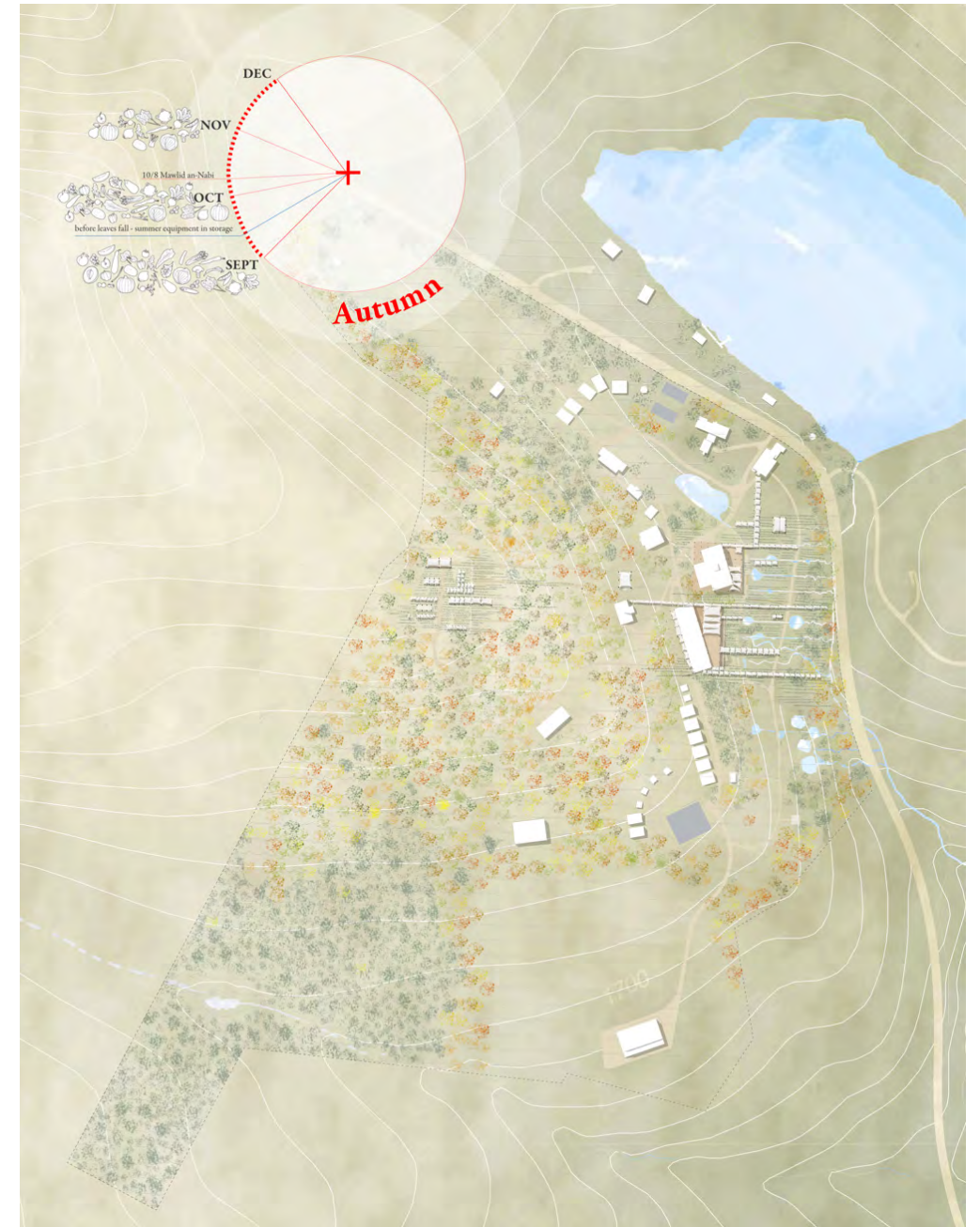
site section, winter

site section, autumn

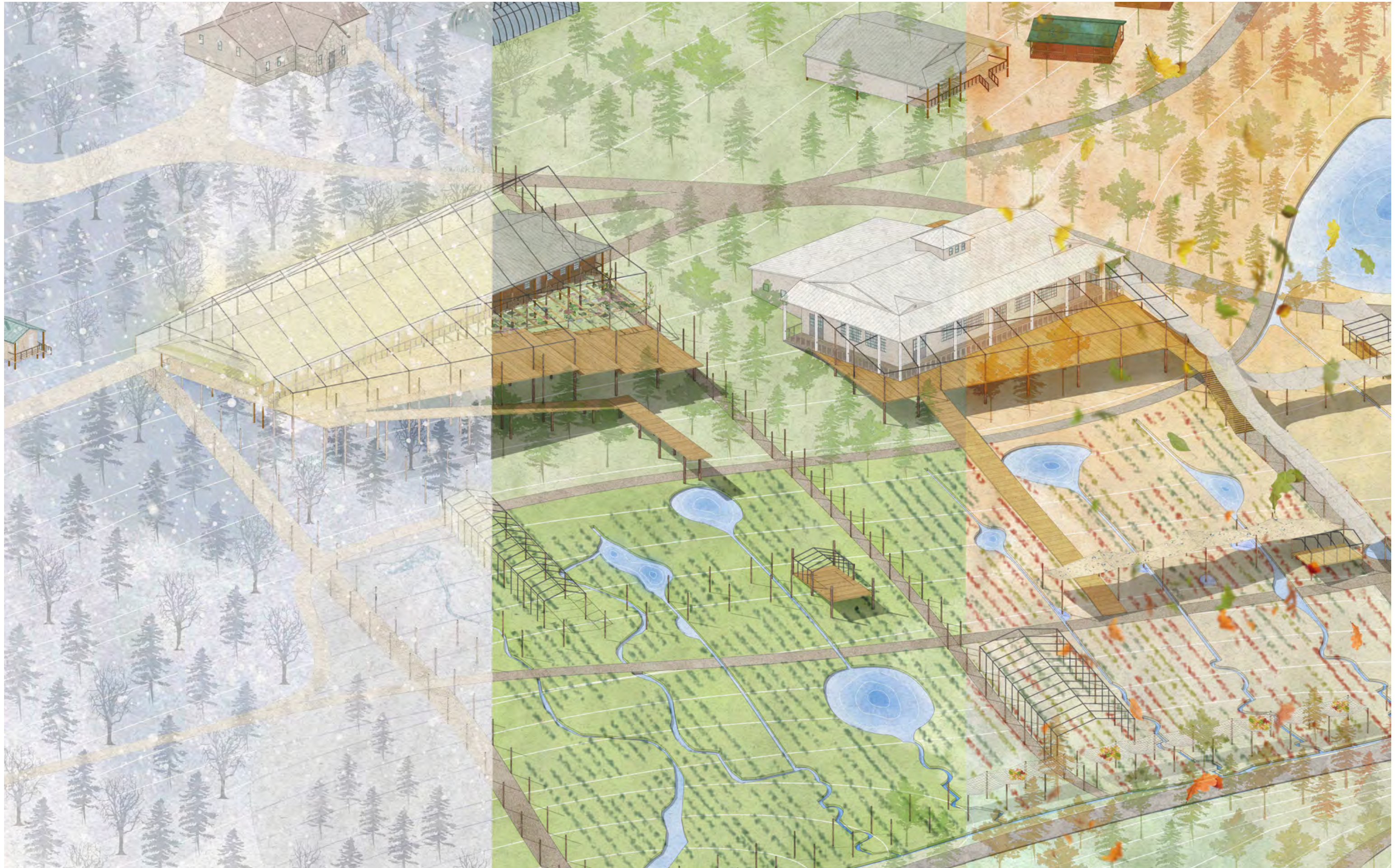




seasonal site plans



proposal and harvesting cycles



seasonal isometric

looking west

Multi-generational housing and community space designed to facilitate *collective domesticity* in the *South Bronx, NY*.

Collective Domesticity
Core III, Fall 2021
Professor Alicia Ajayi
in collaboration with Kim Langat

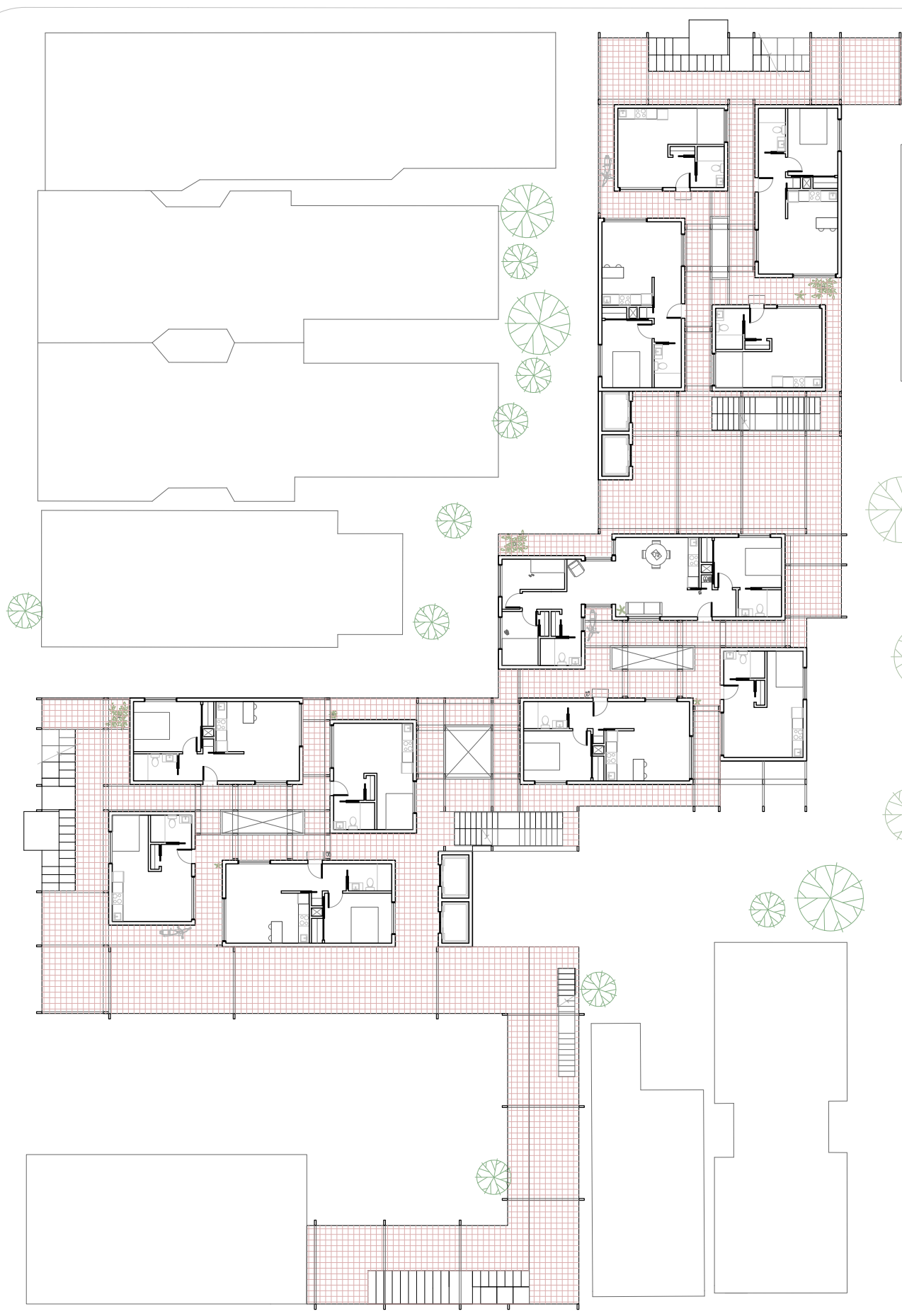


facade model

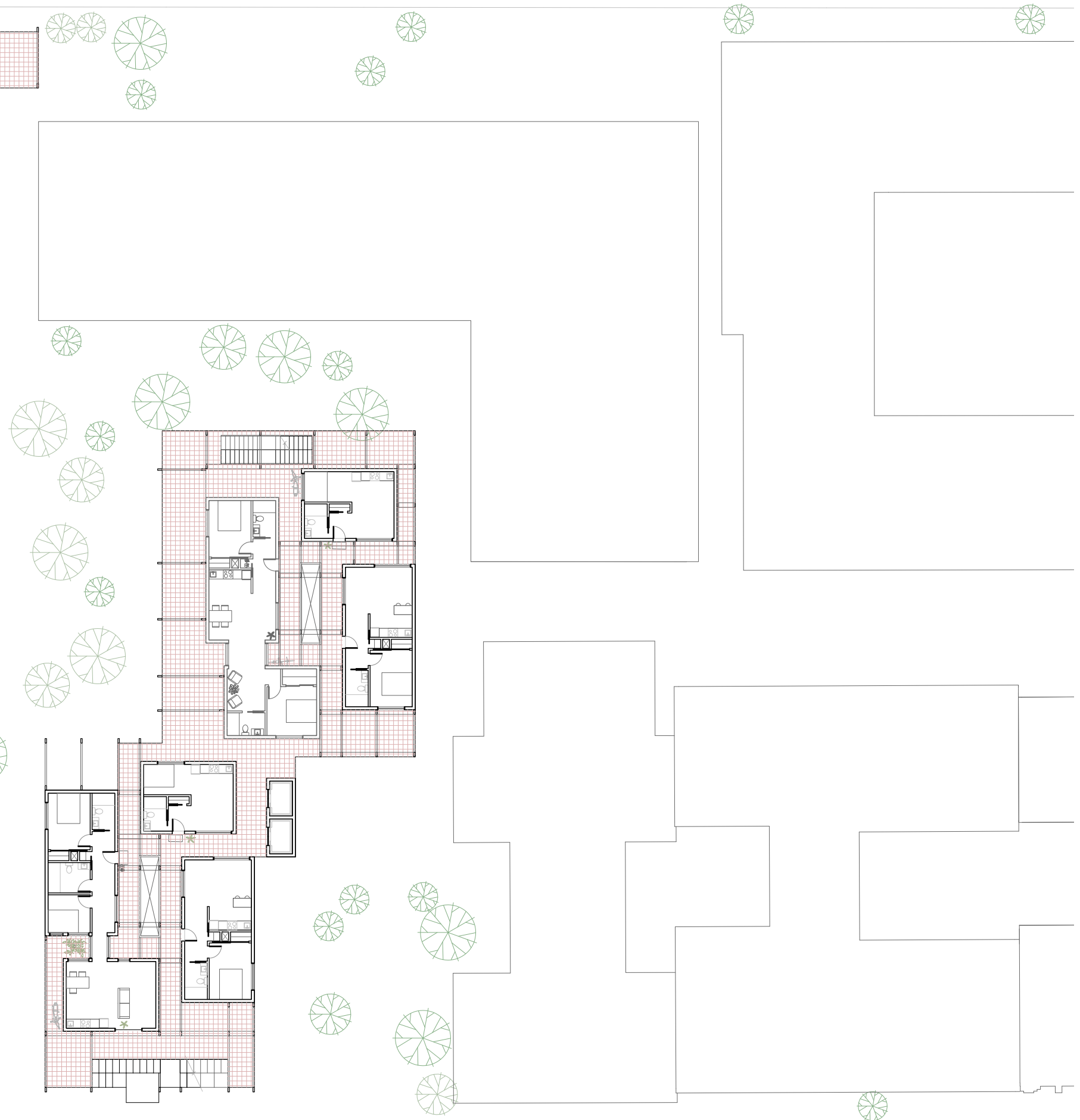


east-west section

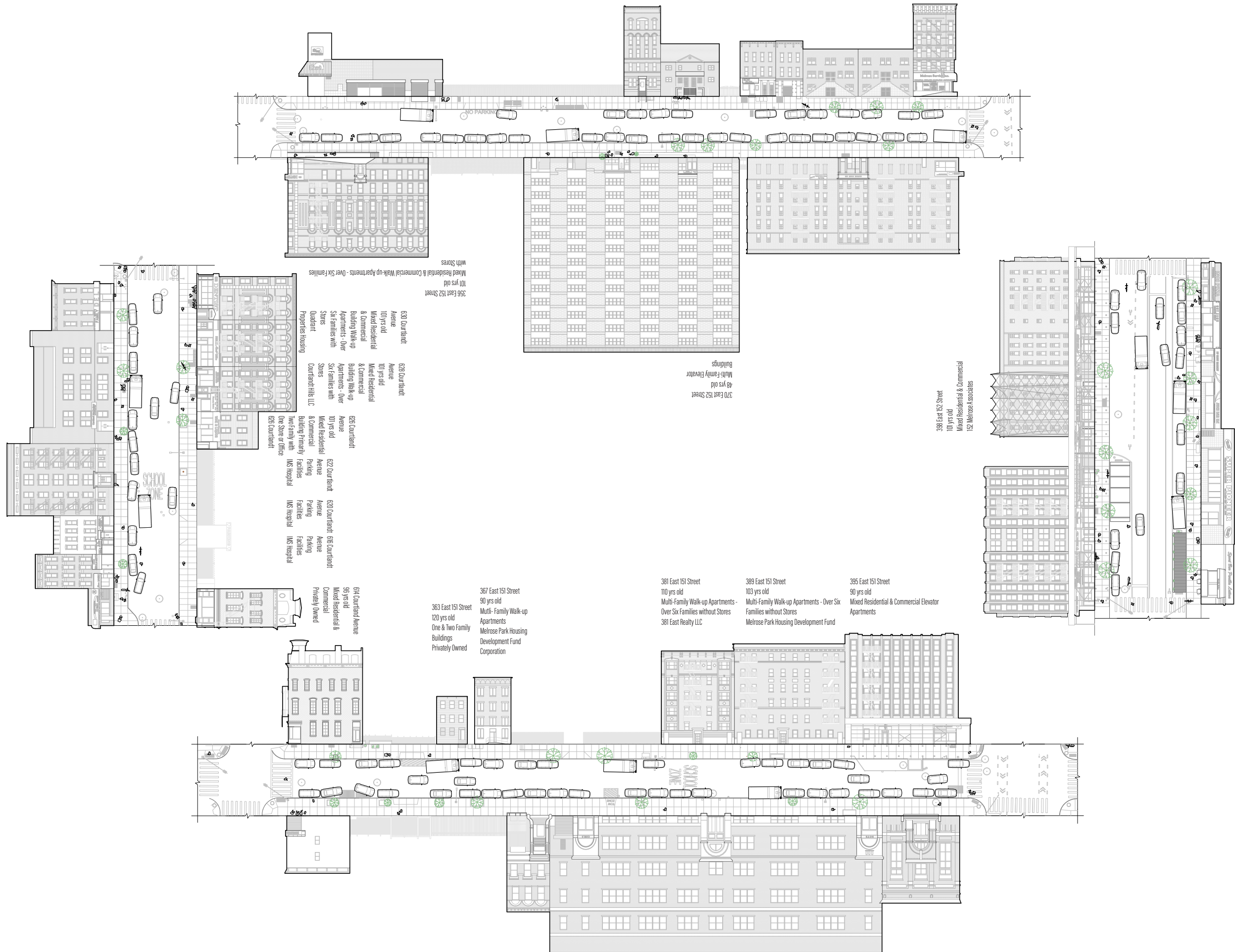
through bronx documentary center

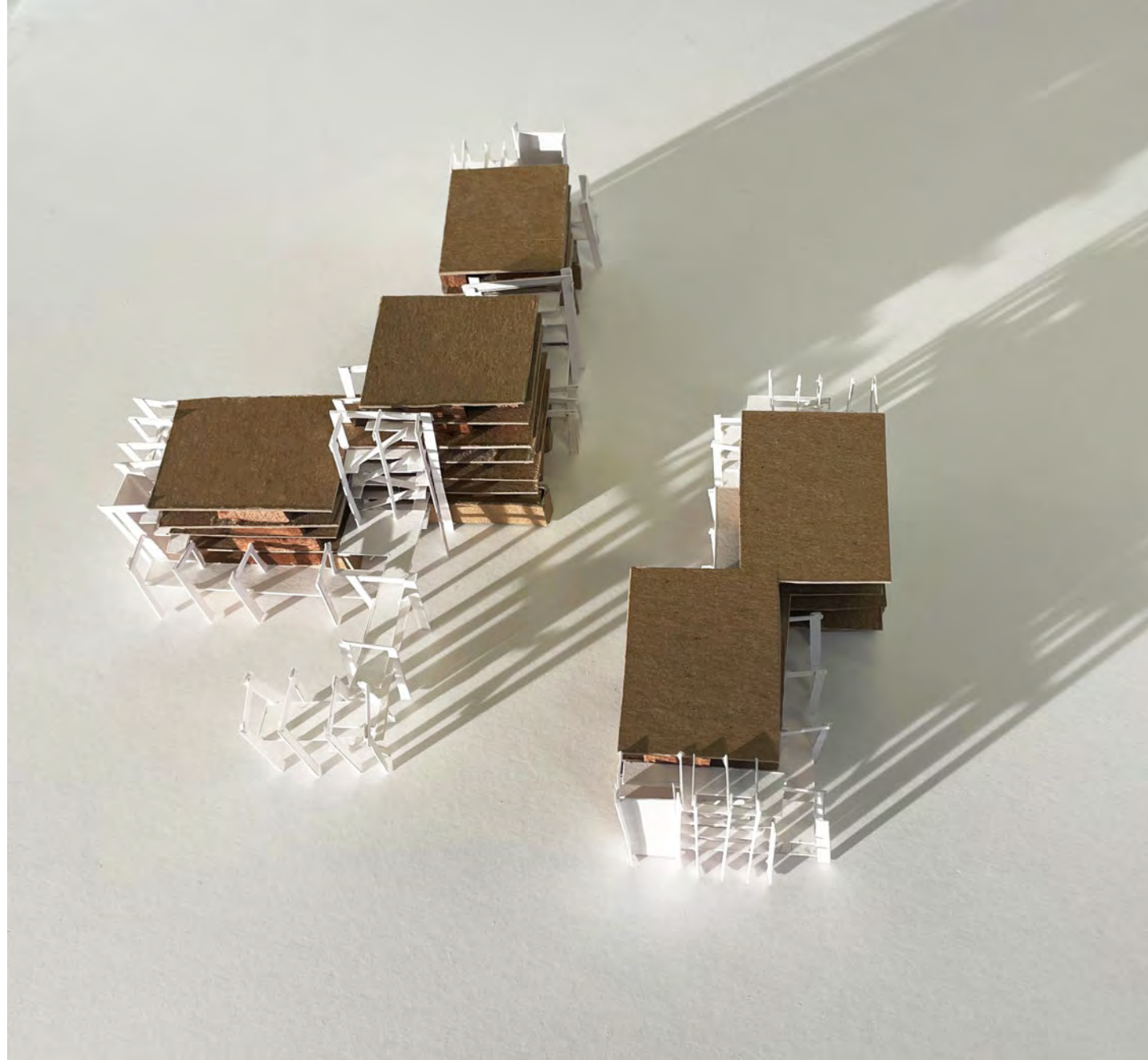


floor plan



level two, typical

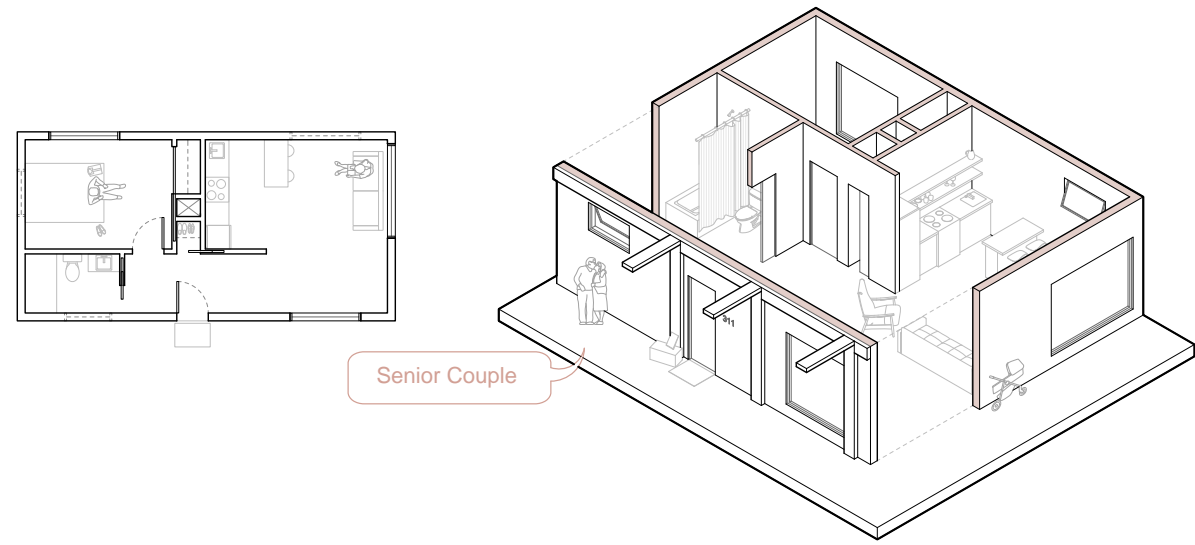




study model

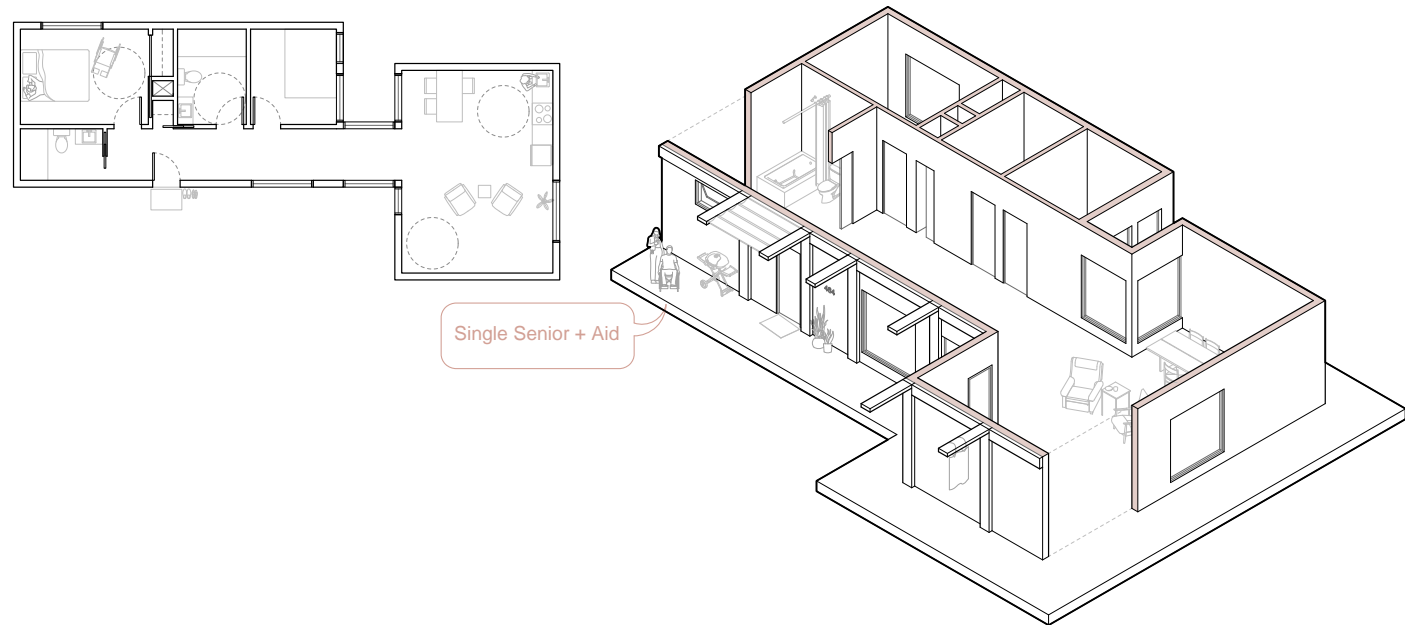


isometric



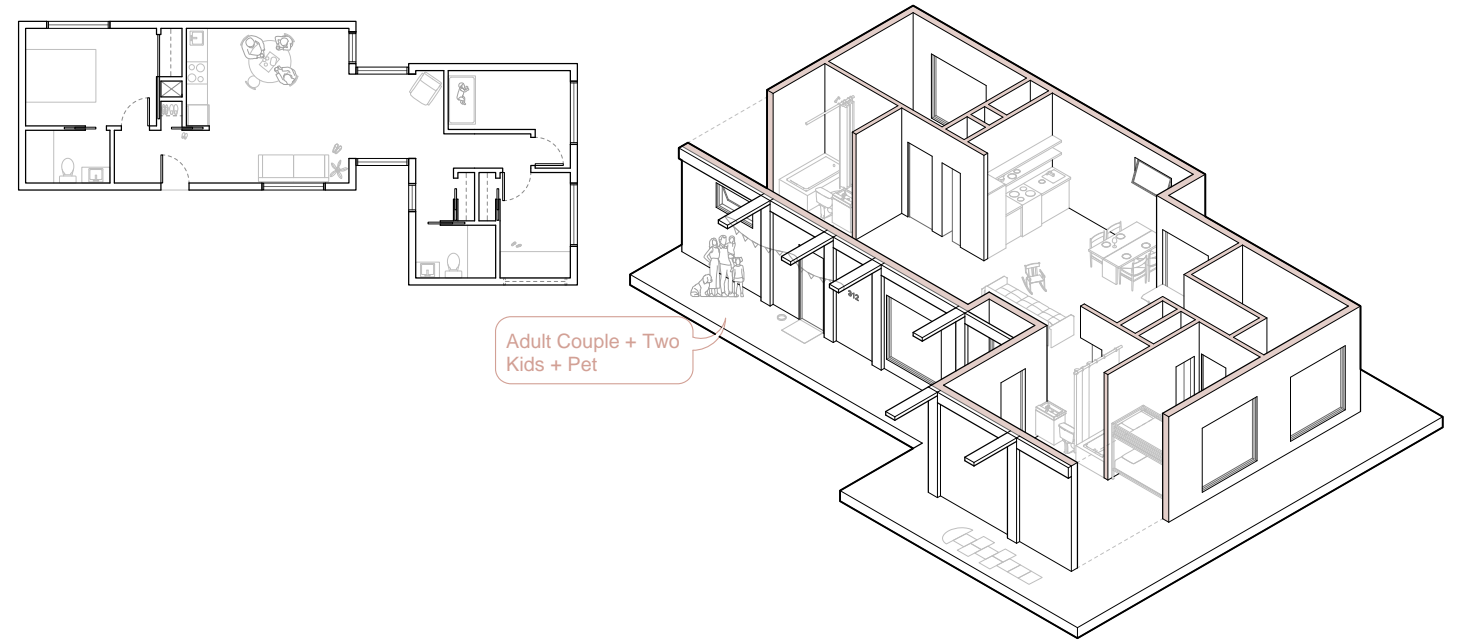
Senior Couple

1 Bedroom Apartment
515 sqft



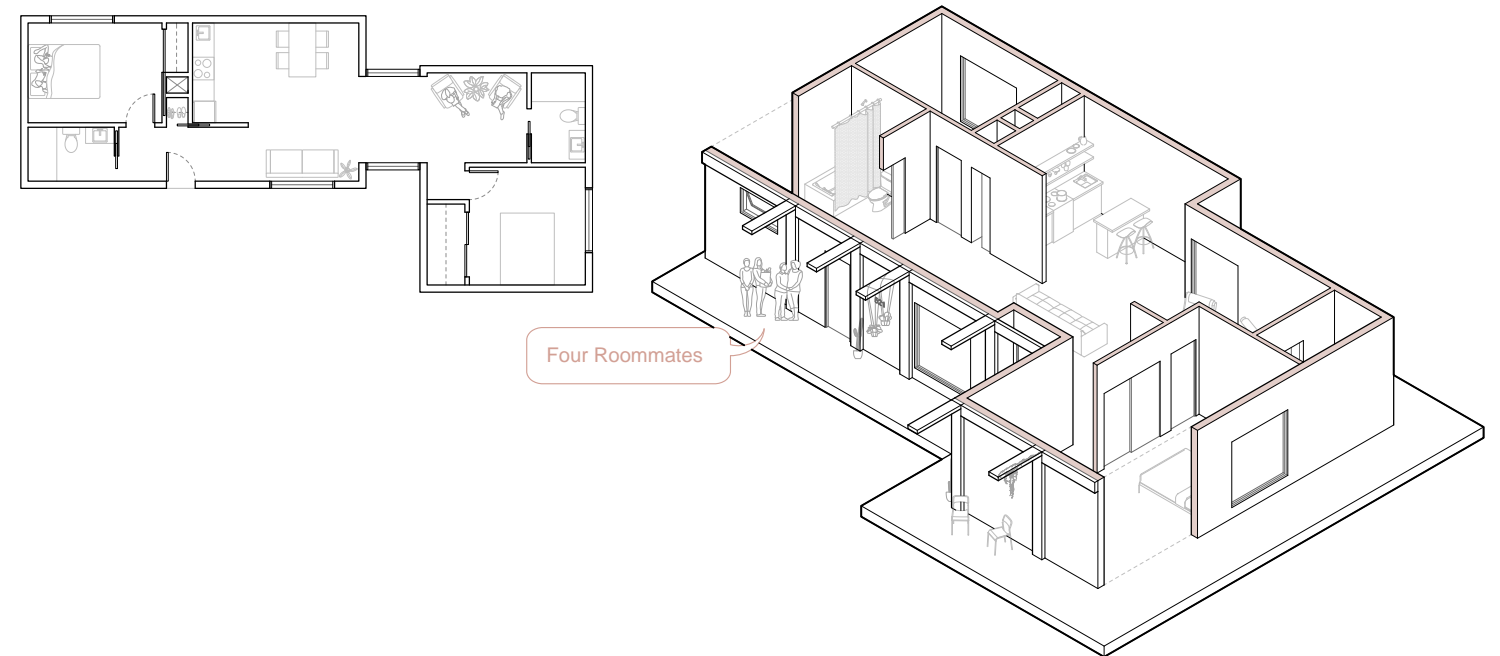
Single Senior + Aid

ADA Apartment
880 sqft



Adult Couple + Two Kids + Pet

3 Bedroom Apartment
895 sqft

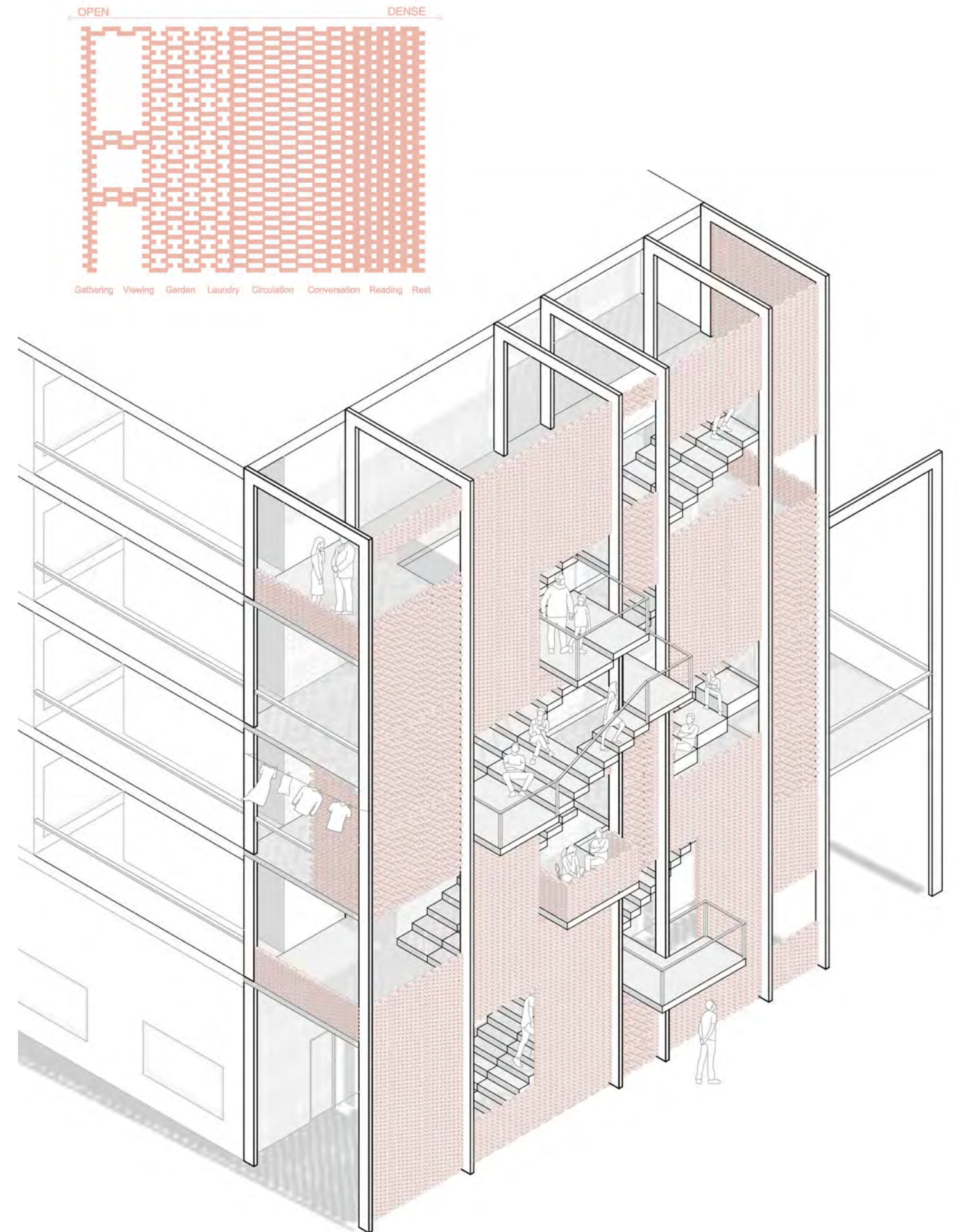


Four Roommates

2 Bedroom Apartment
895 sqft



facade model

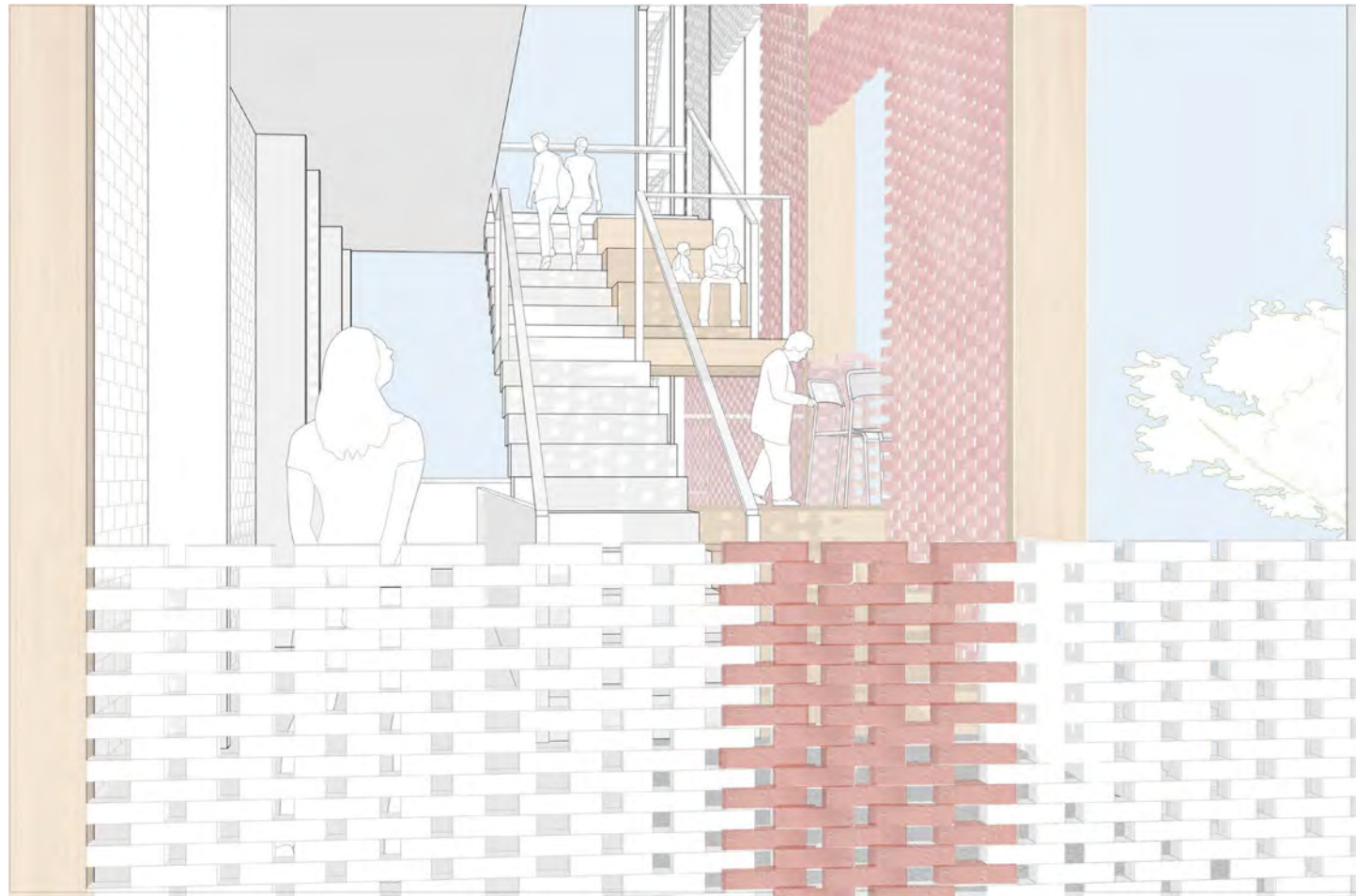


social stair



north-south section

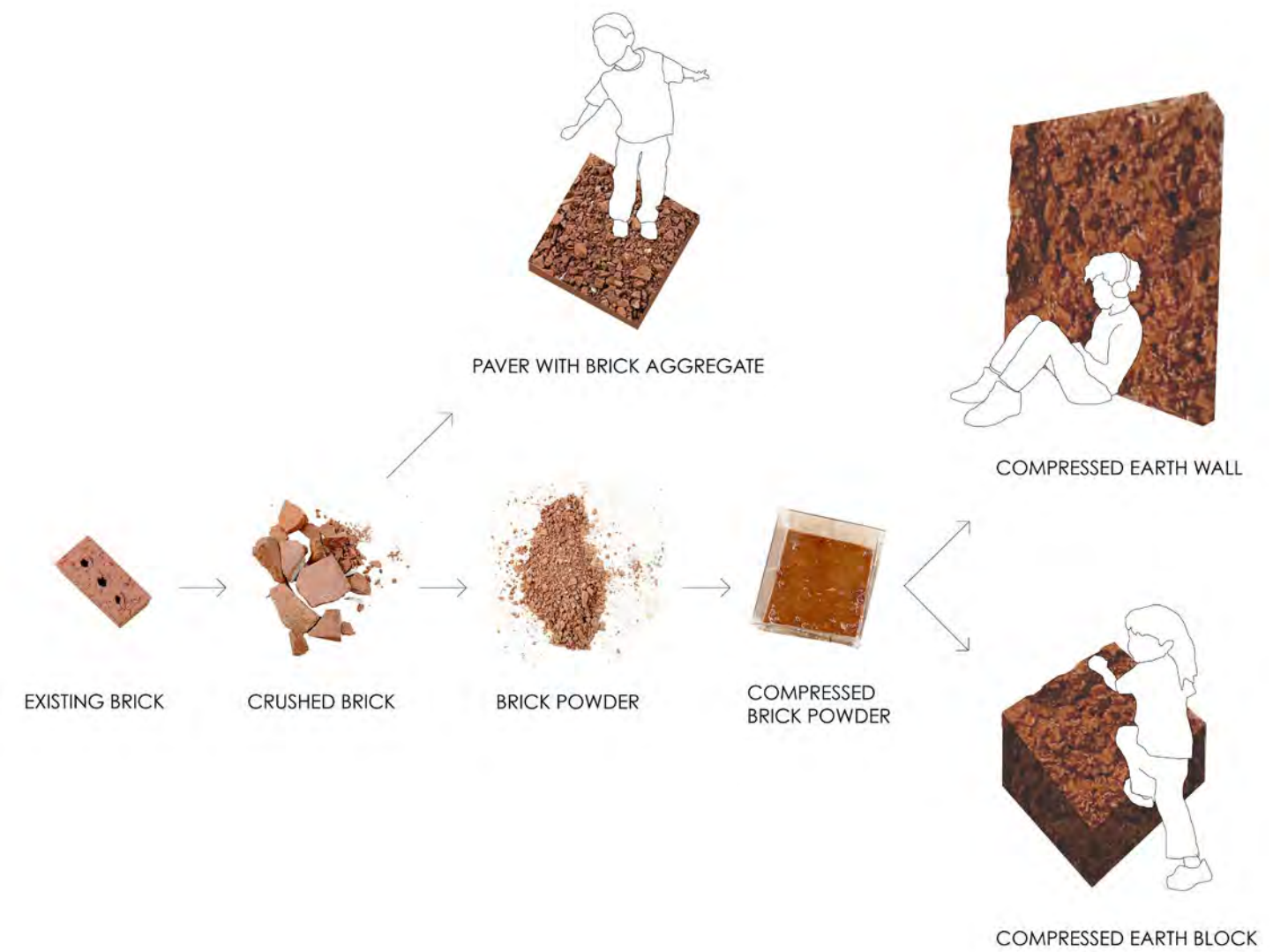
through block



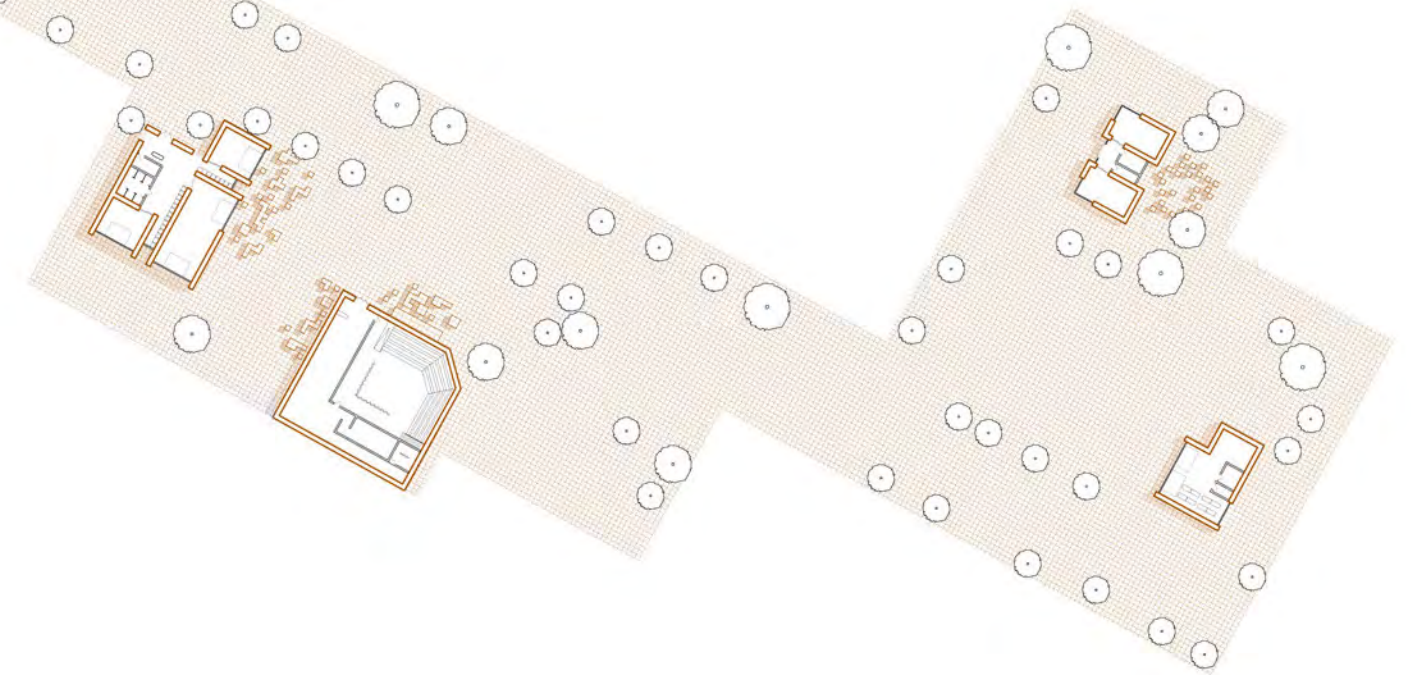
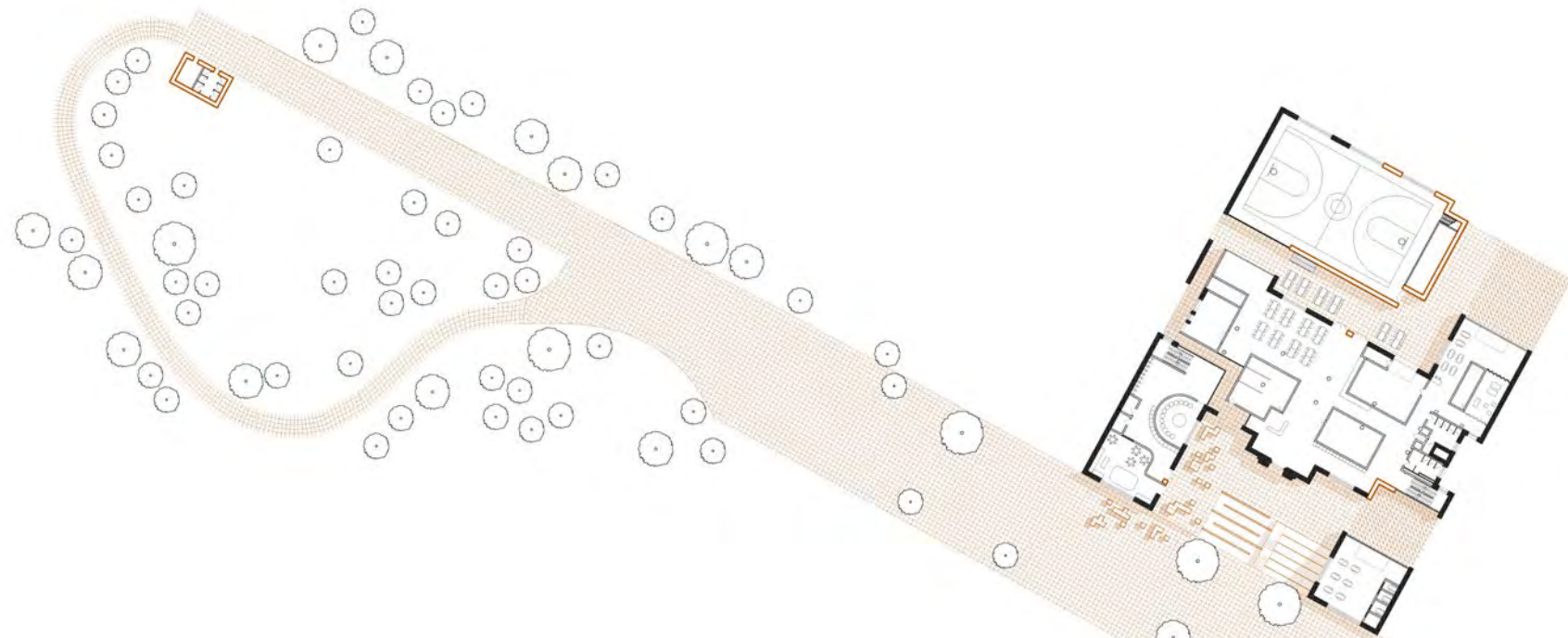
perspective, social stair

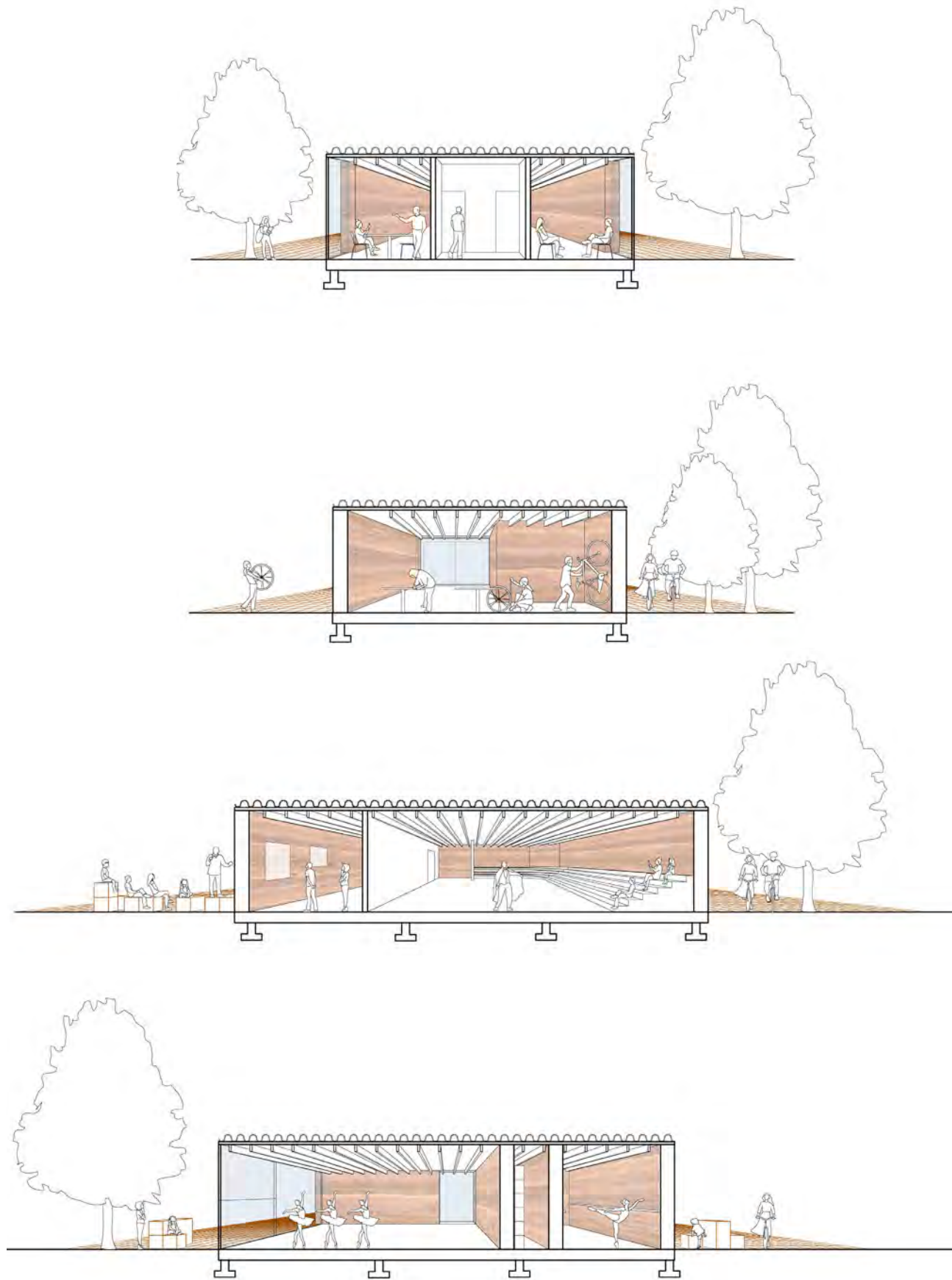


perspective, street

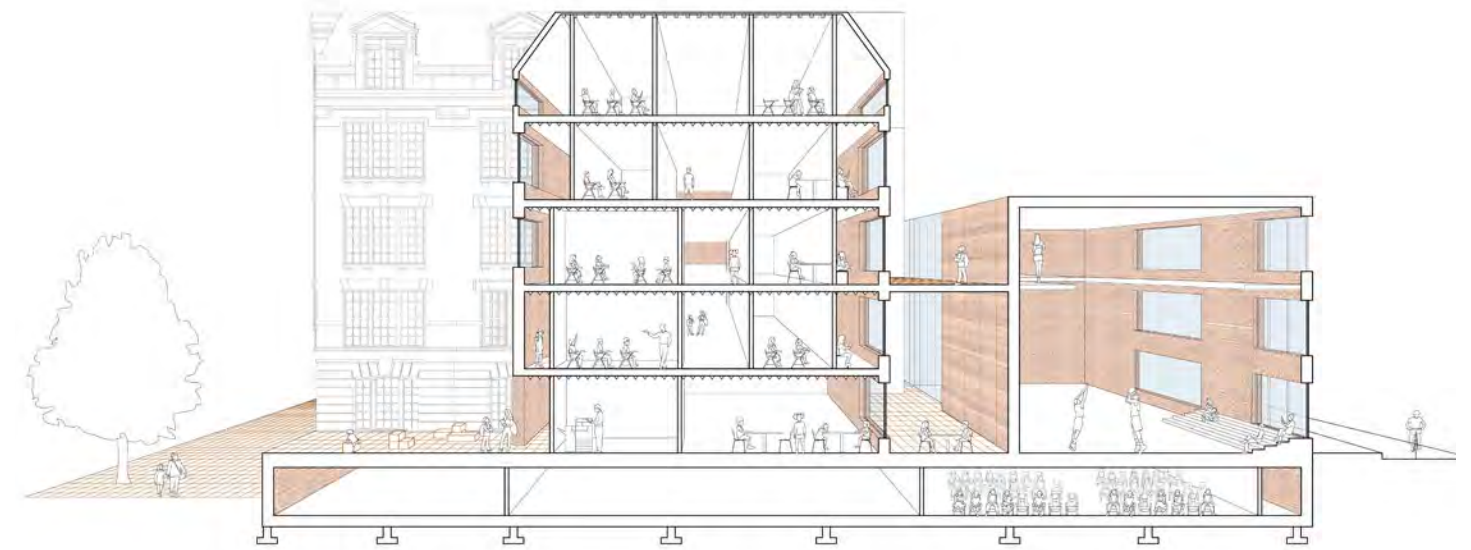


An *abandoned historic masonry* building dissolves into a public *elementary school* and *community campus* in the *East Village, NY*.





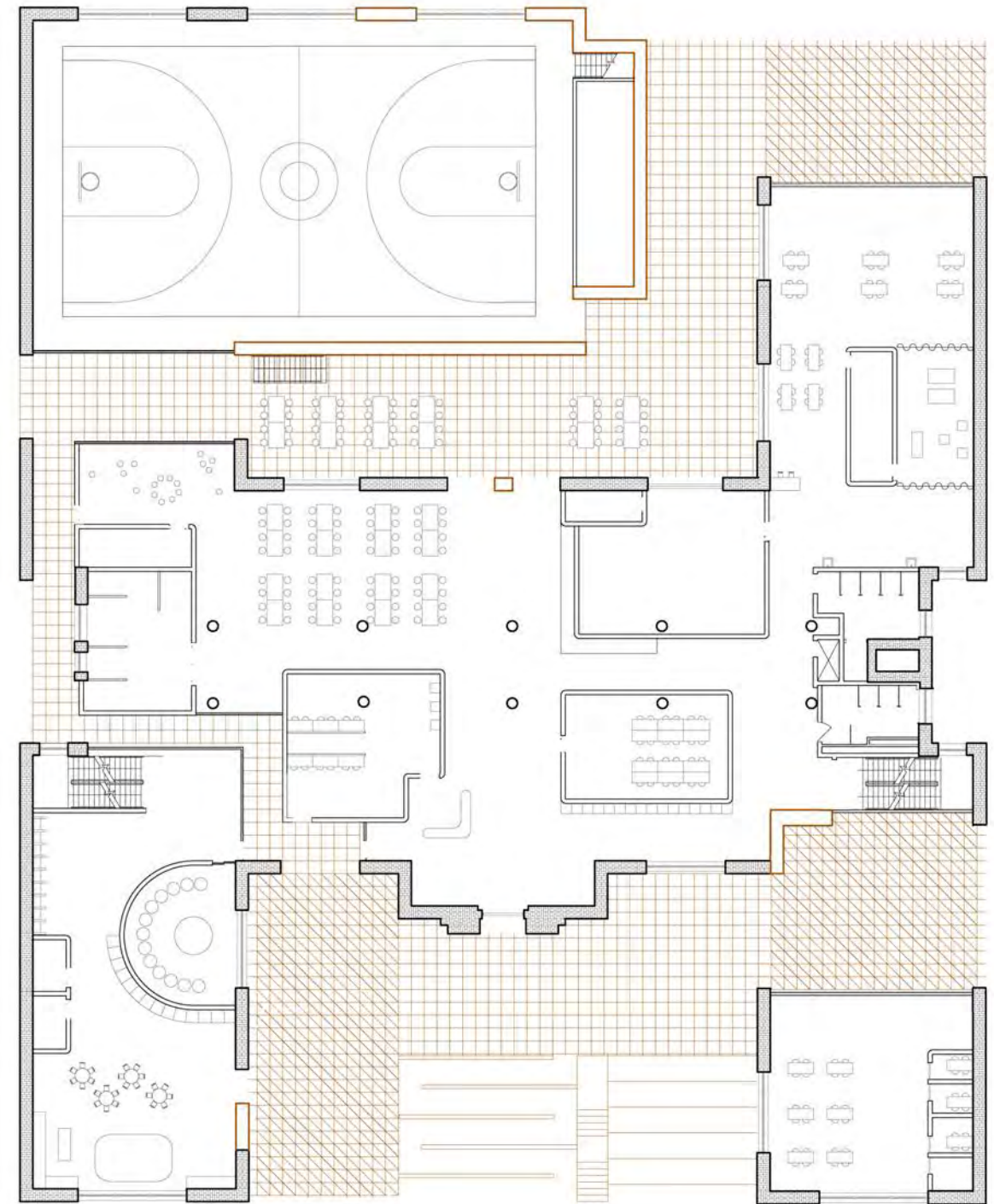
community meeting, bicycle repair, black box, and dance studio



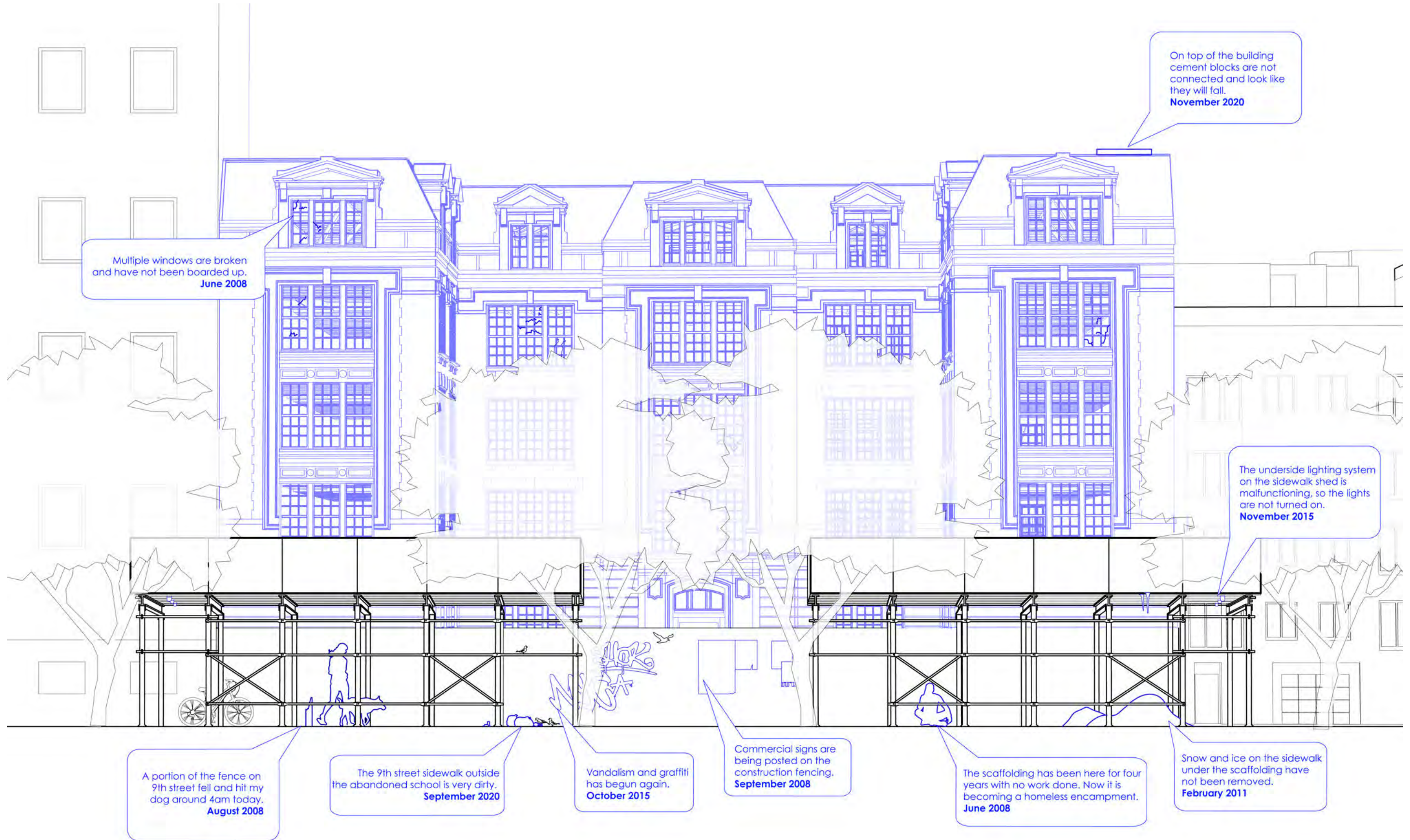
section through p.s.64 and gymnasium



site plan, program

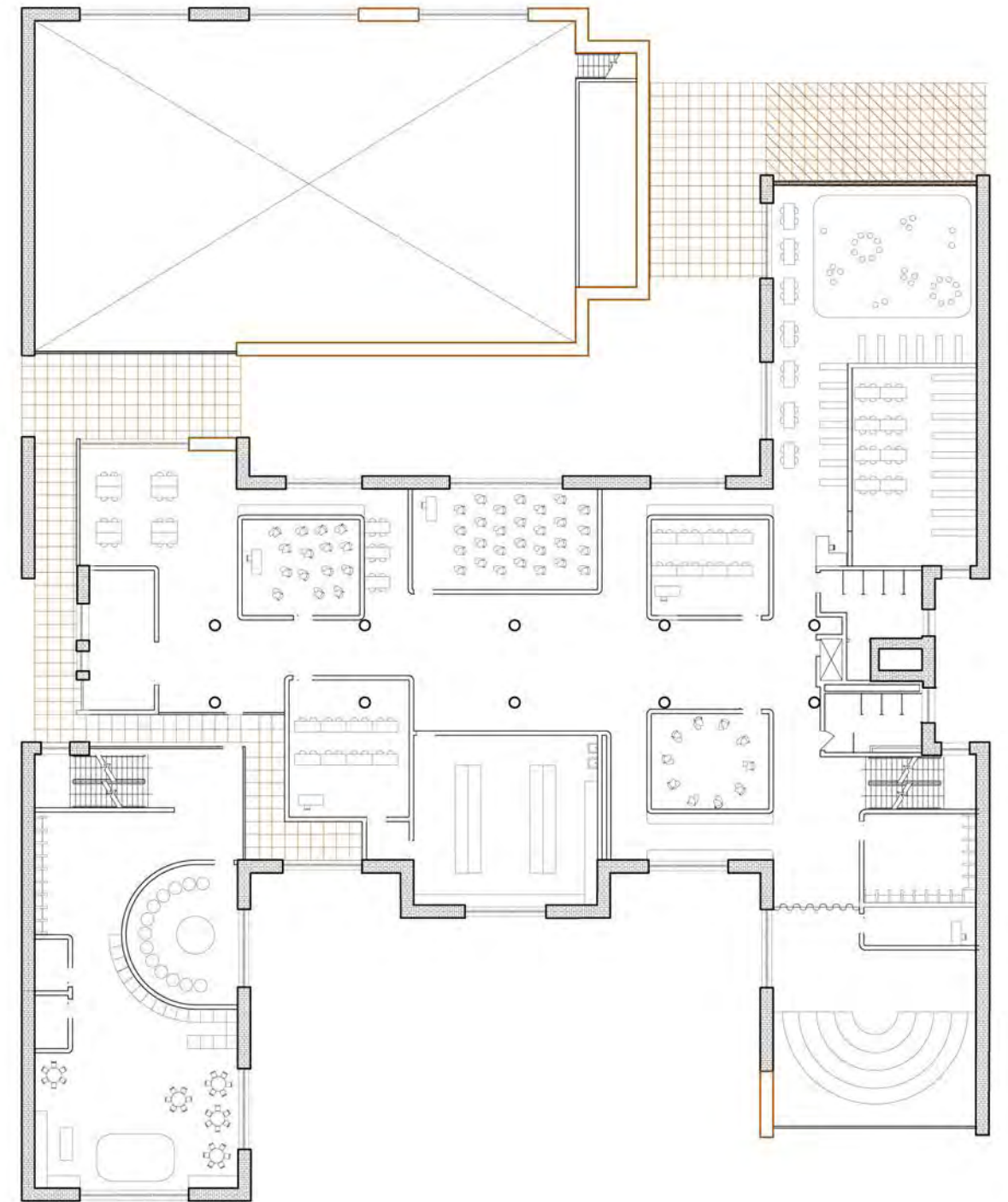


first floor plan





study model



second floor plan

least fungible



primary beams + columns



secondary beams + metal decking



floor slab



load-bearing masonry walls

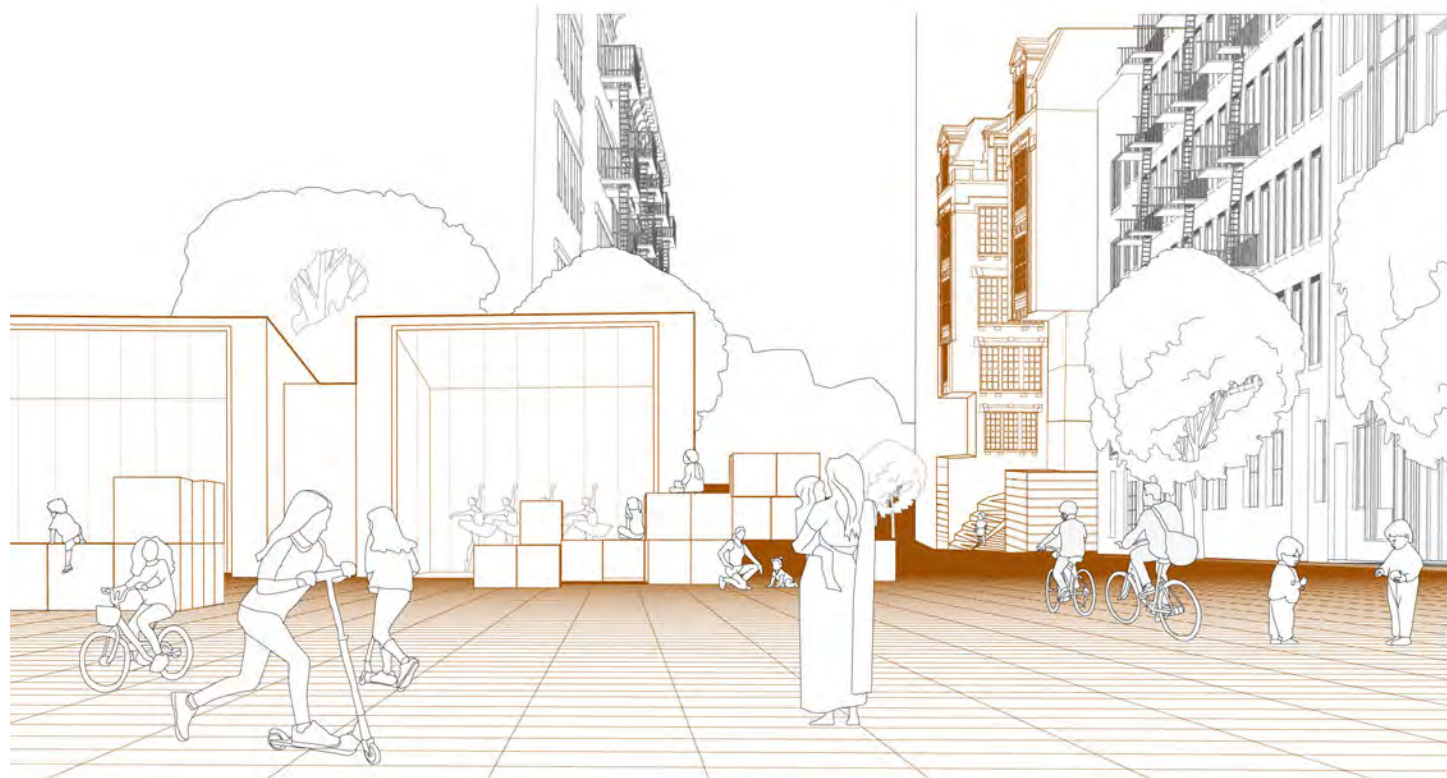
most fungible



study model

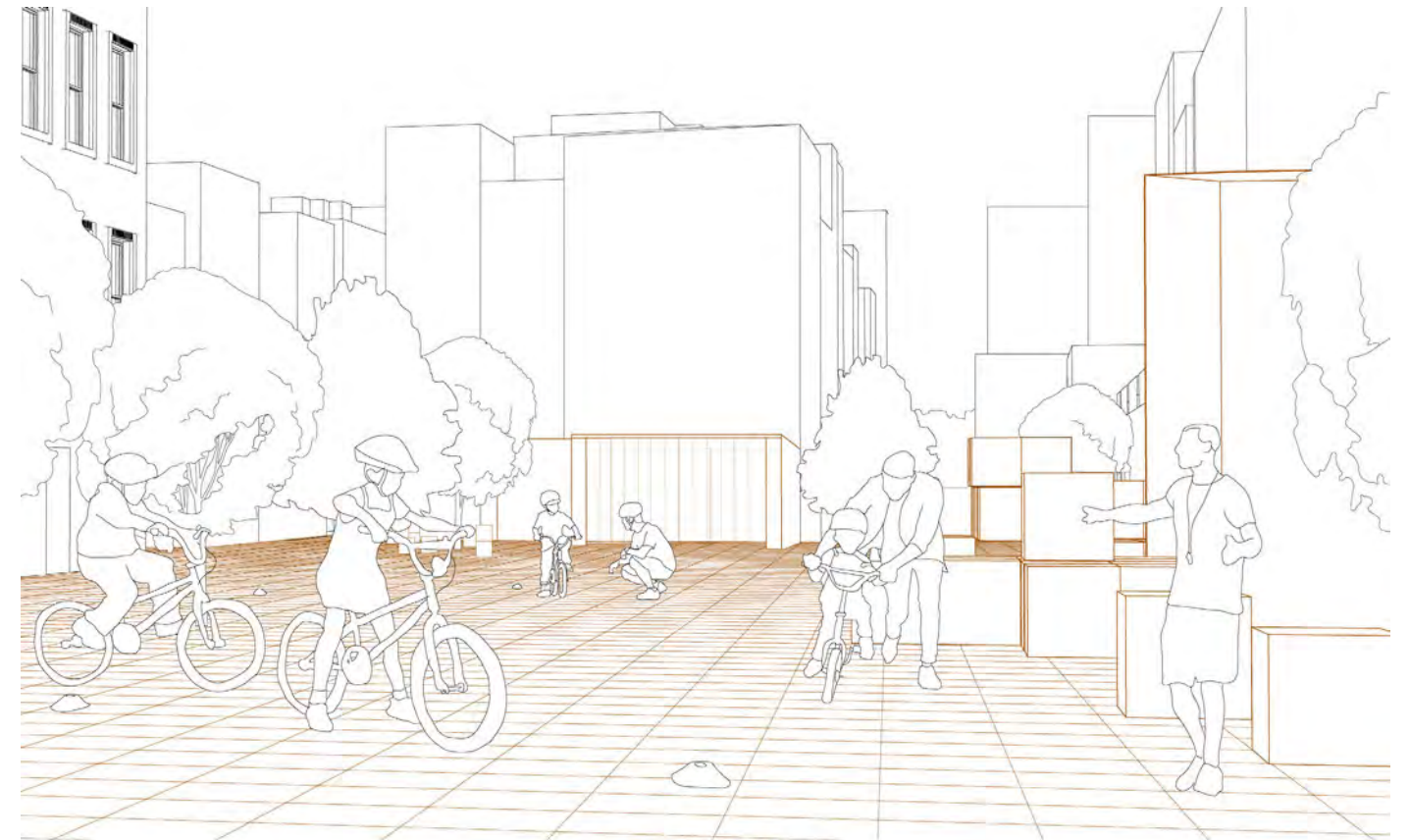


TUESDAY, 10AM

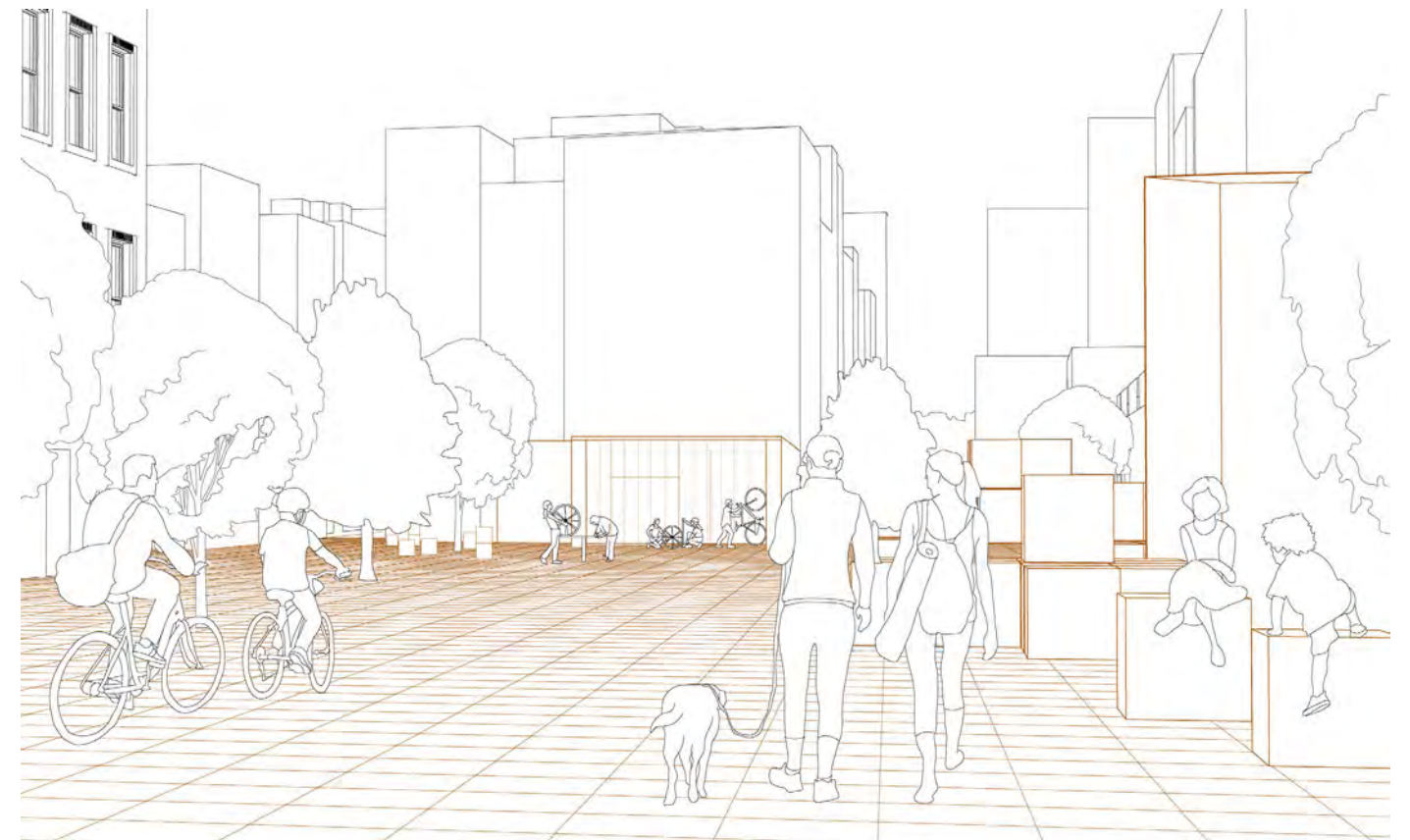


SATURDAY 11AM

perspective, looking west



THURSDAY, 1PM

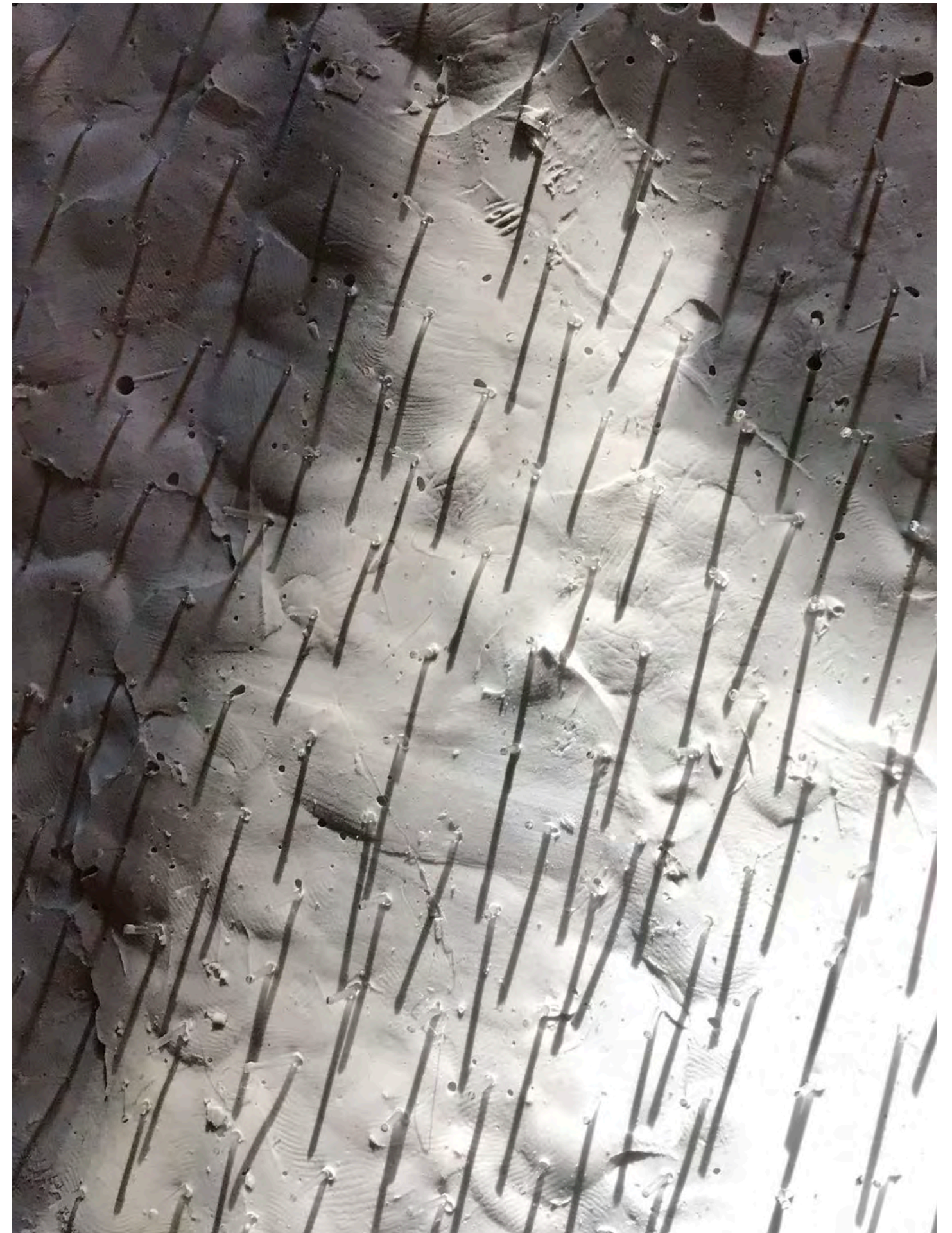


SATURDAY, 11AM

perspective, looking east

A subterranean playscape invites public schoolchildren to explore the steep terrain in Morningside Park, NY.

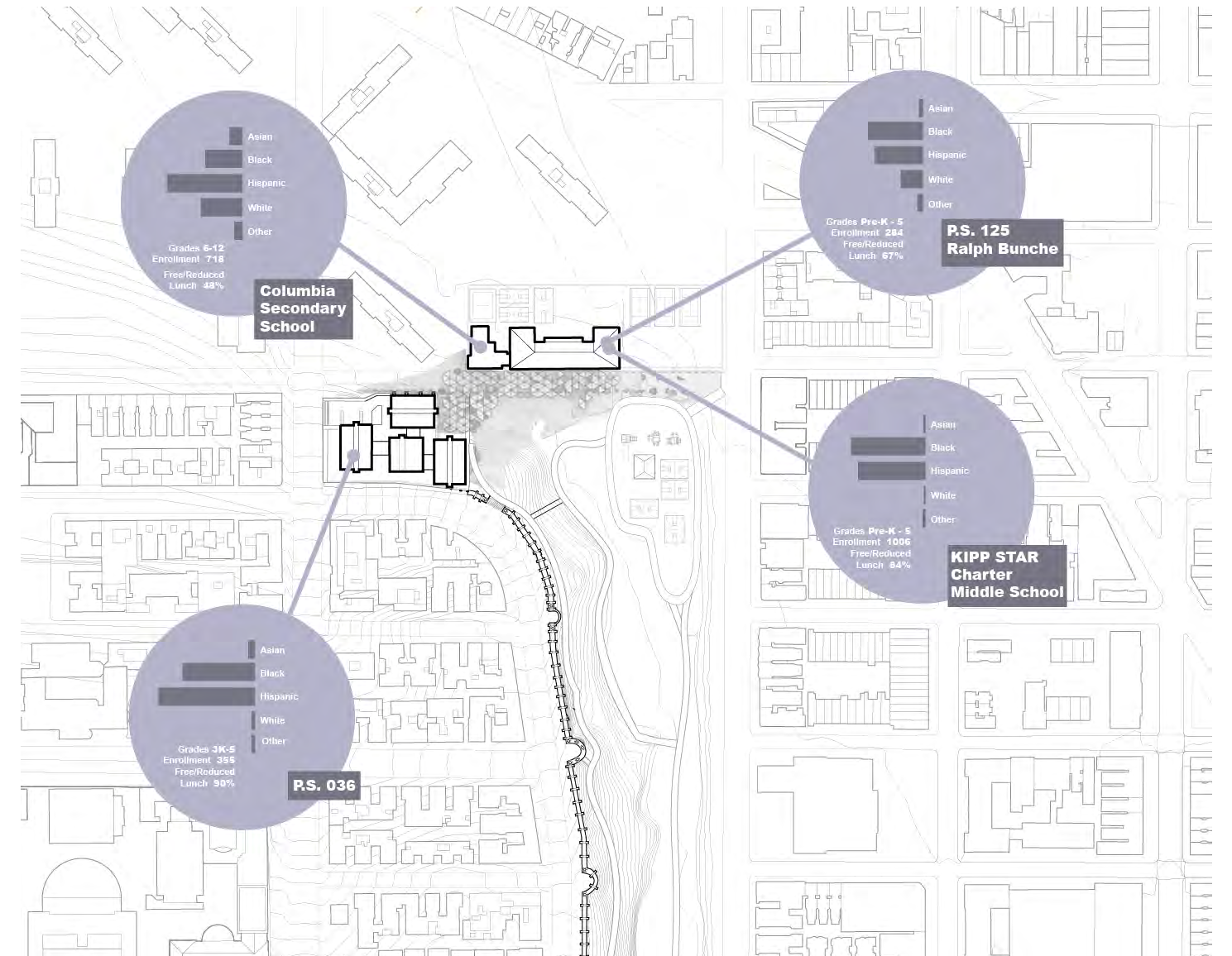
Navigable Schoolyard
Core I, Fall 2020
Professor Lindy Roy



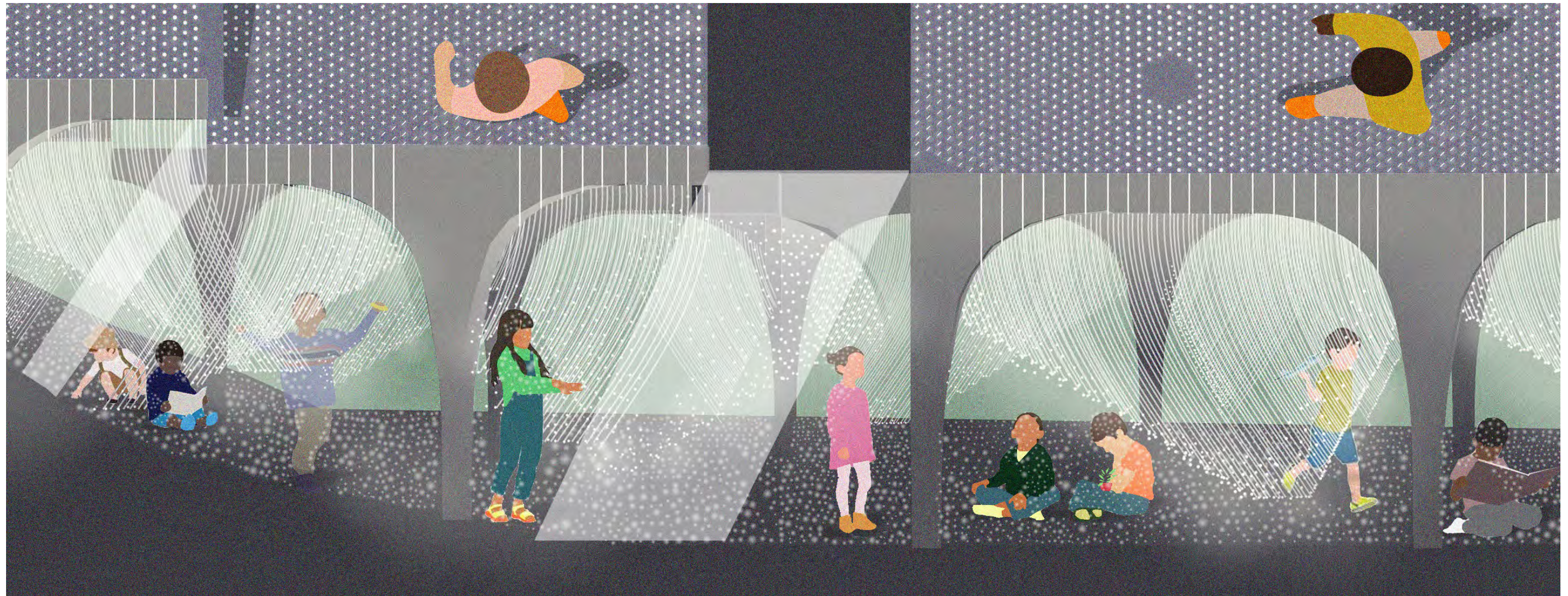
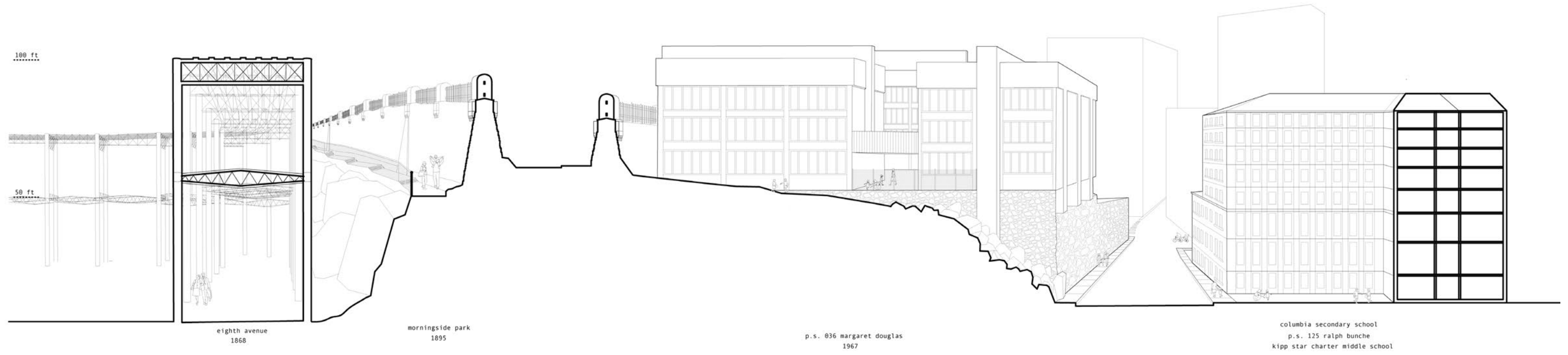
study model



model photo and collage

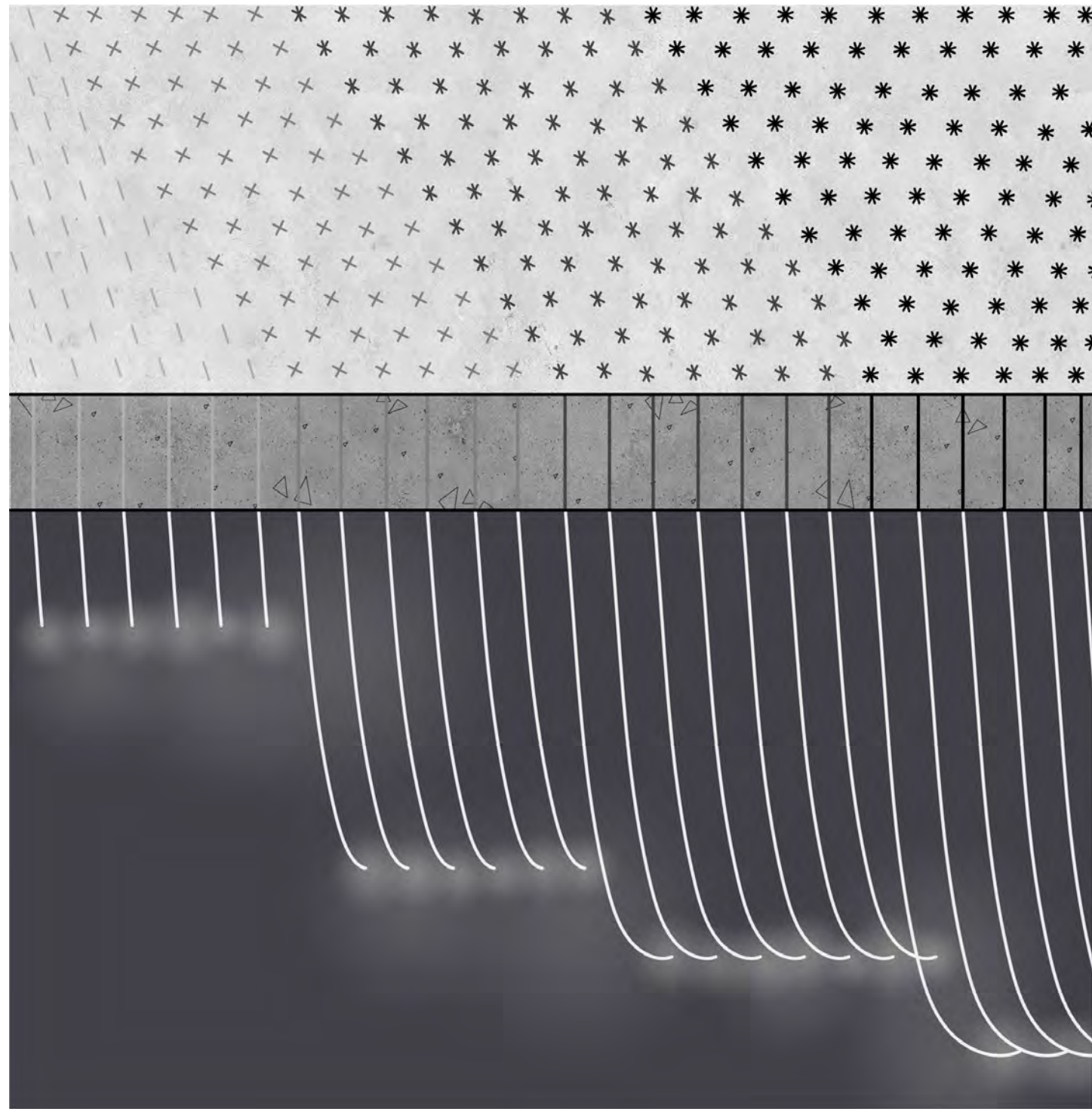


site plan

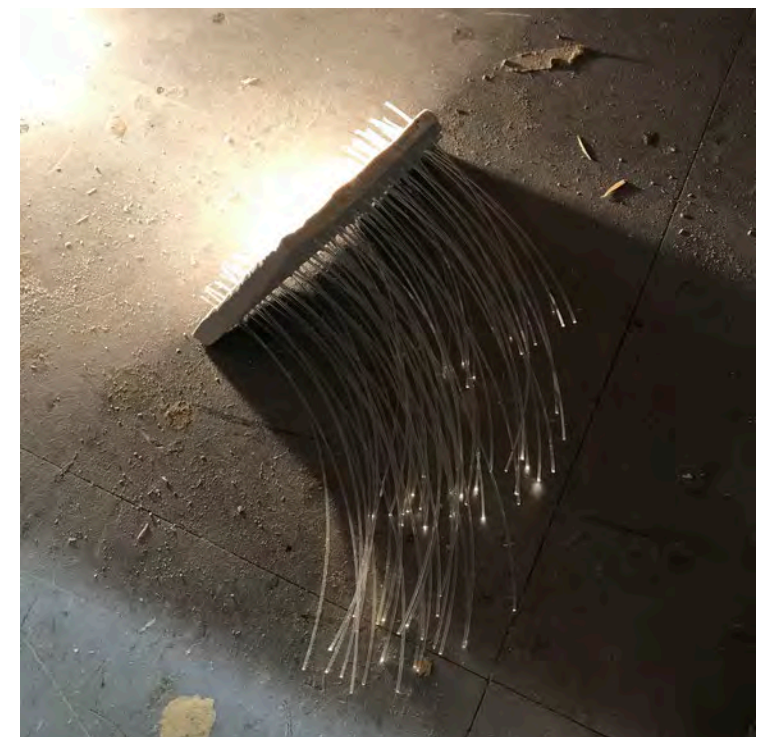


site research

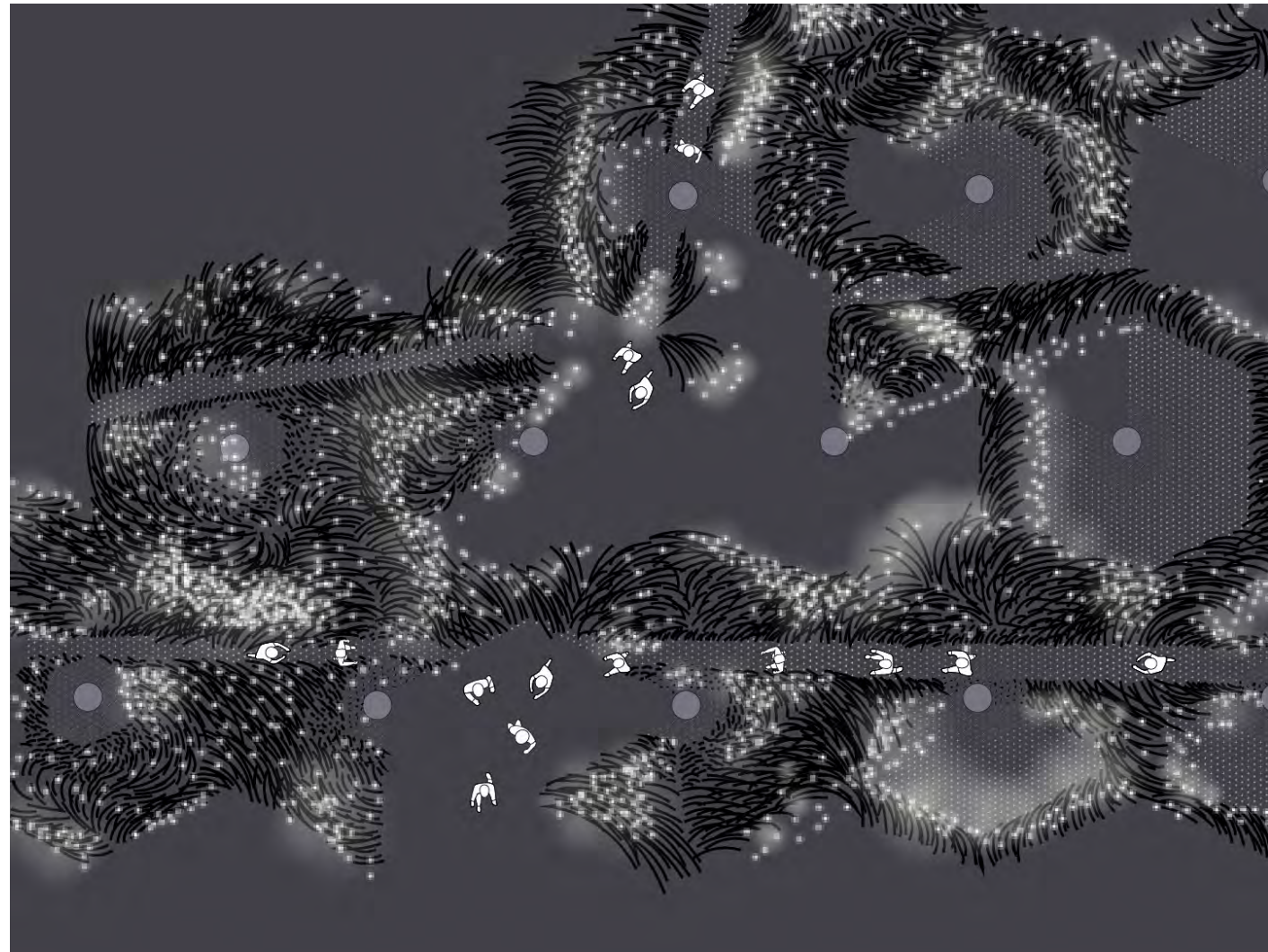
north-south section



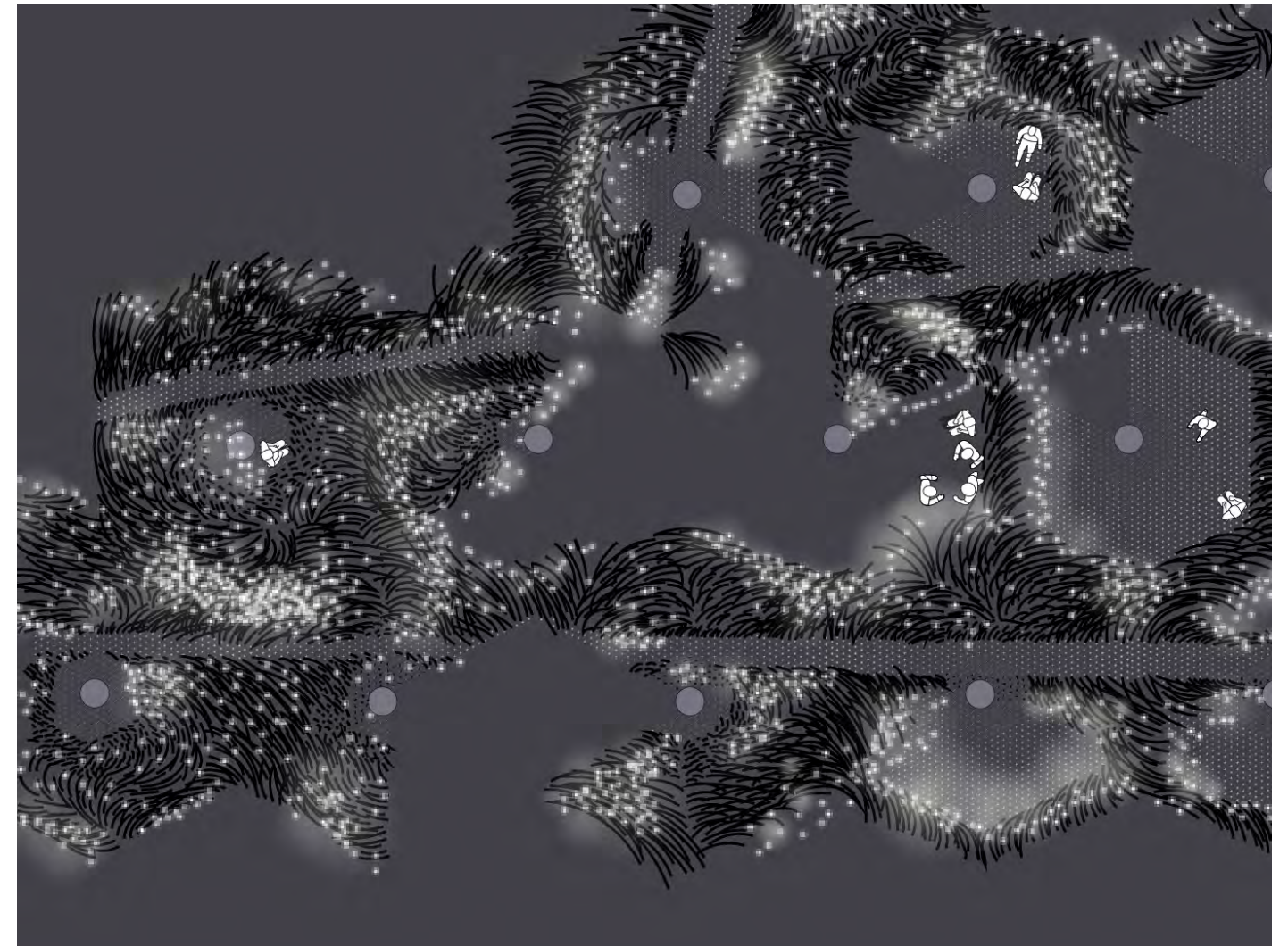
construction detail



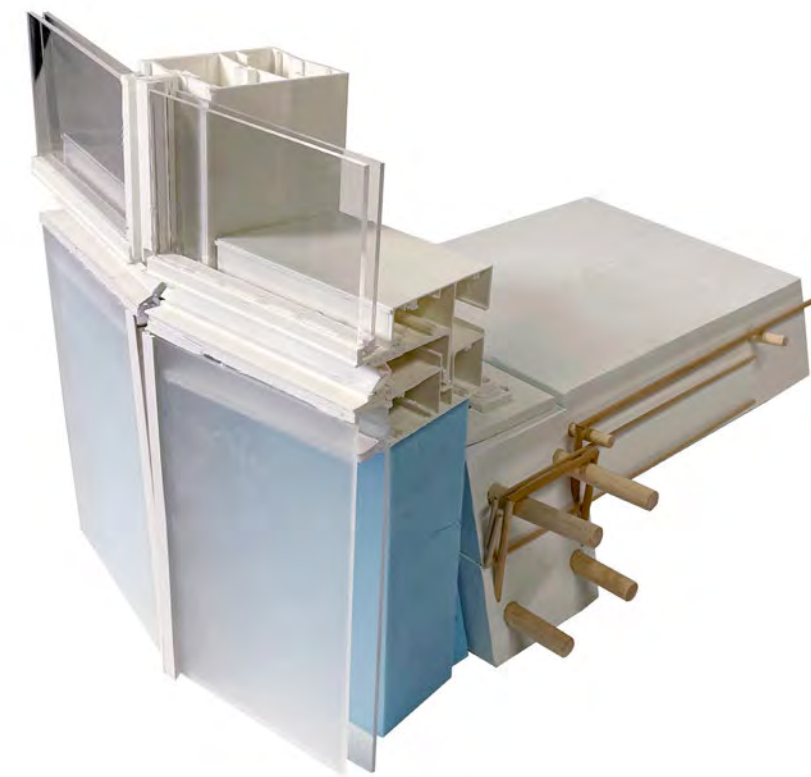
study models and collage



reflected ceiling plan

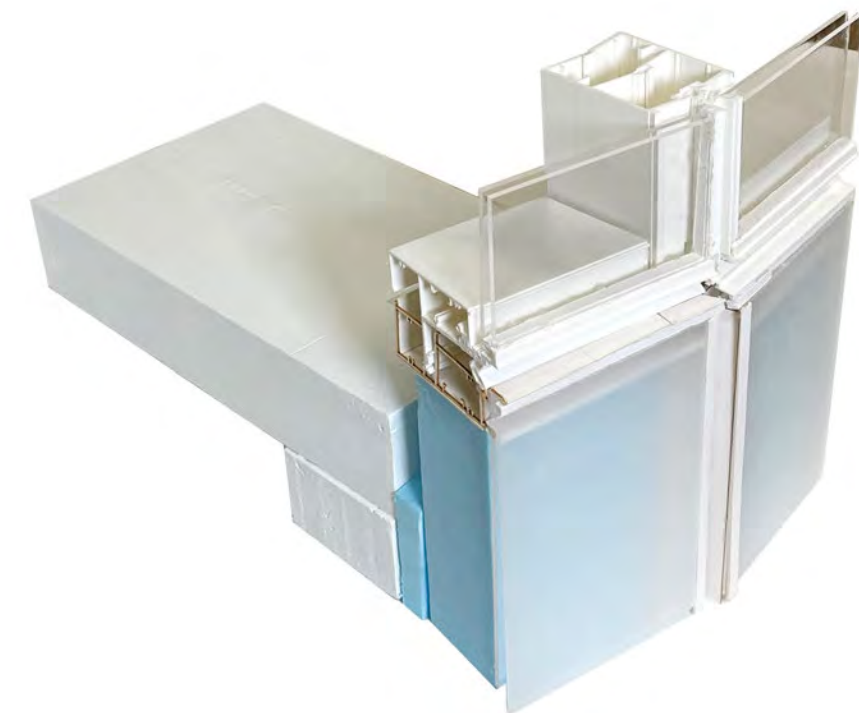


reflected ceiling plan

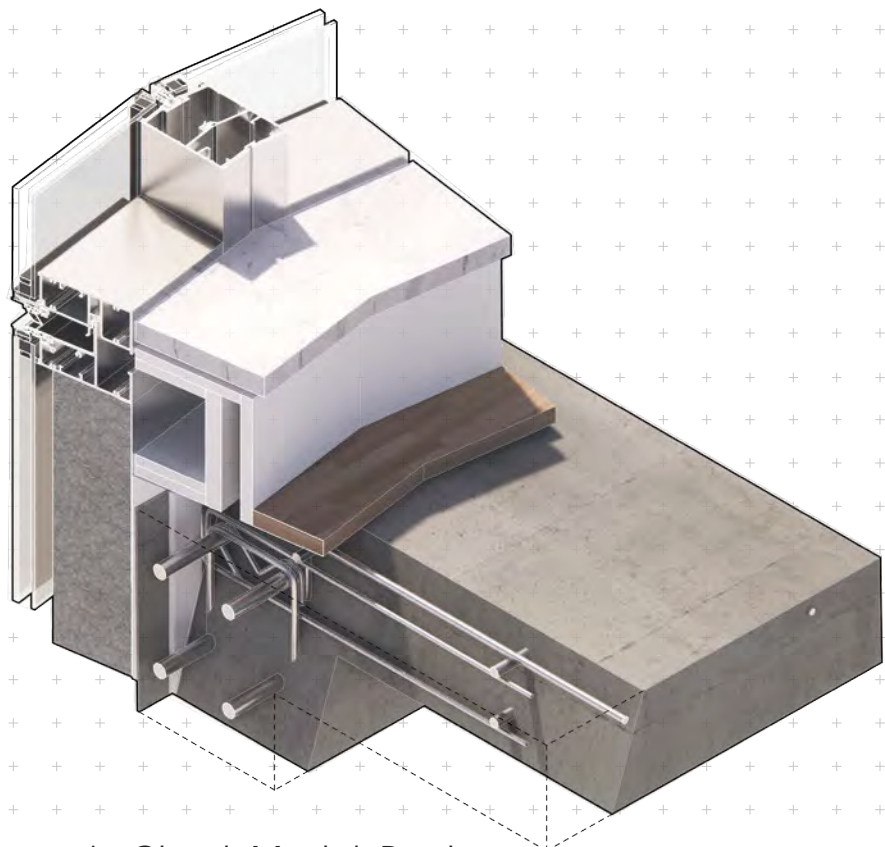
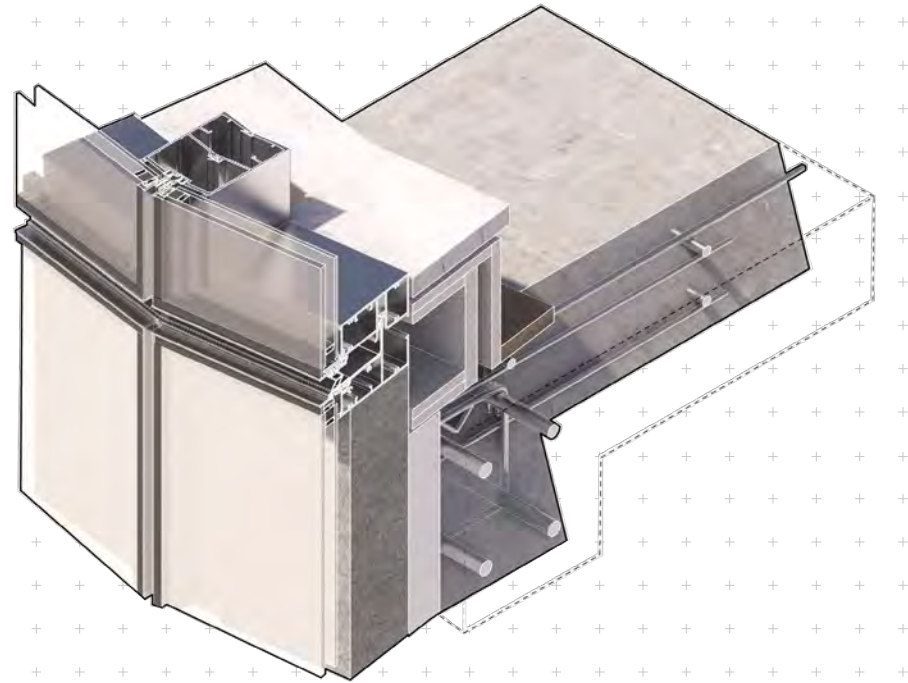


A typical four-way residential *curtain wall* intersection is explored through methods of *drawing* and physical *model making*.

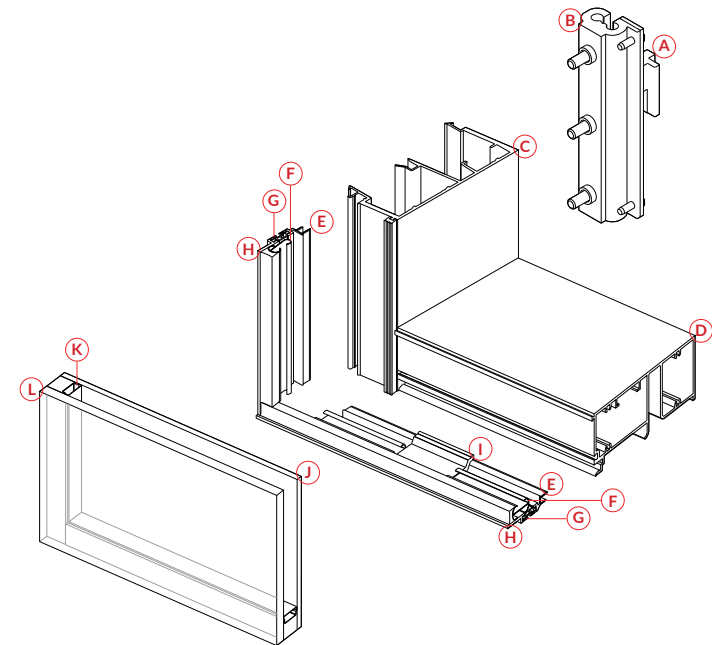
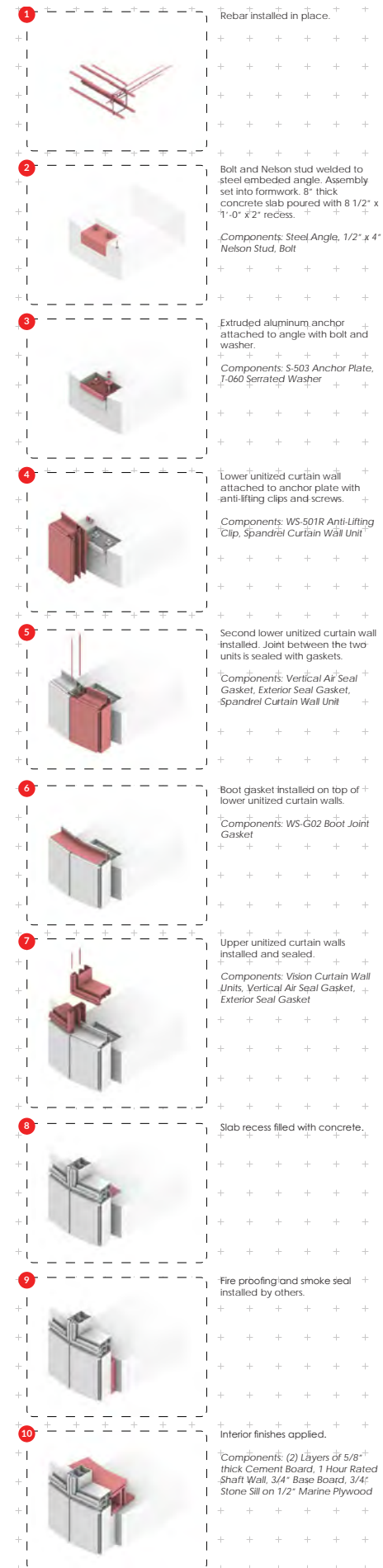
Residential Curtain Wall
Tech V, Spring 2022
Professor Nicole Dosso
in collaboration with Paige Haskett, Joachym Joab, and Yerin Won



physical model



isometric rendering

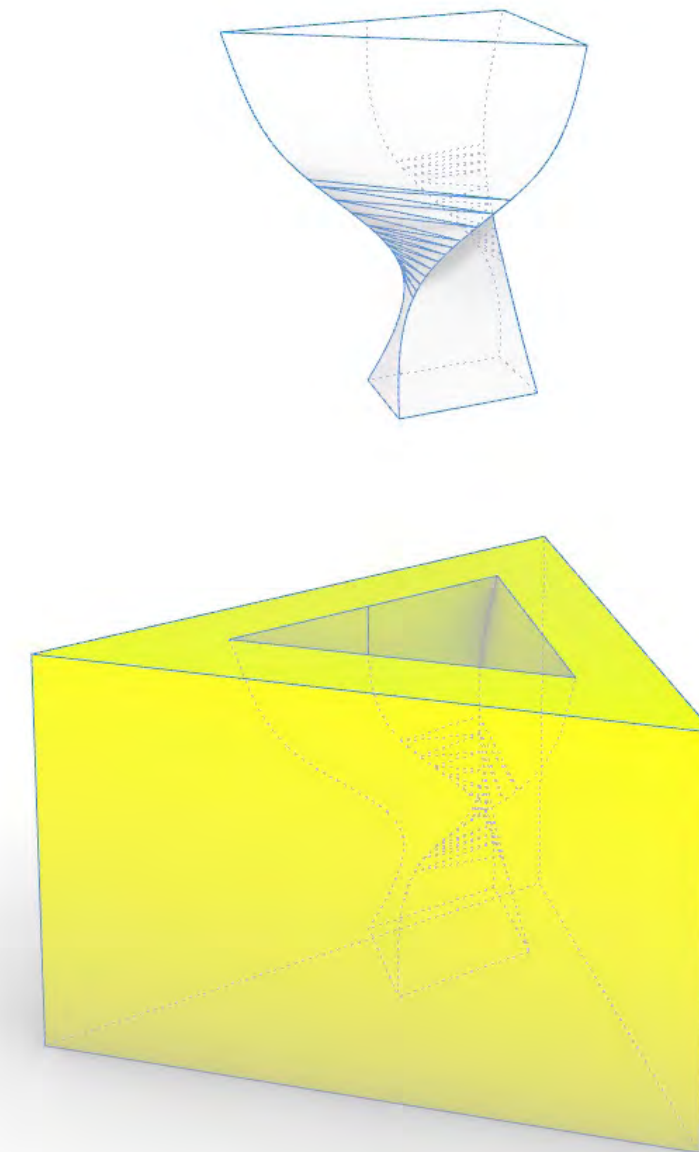


- A. Anchor Hook
- B. Anchor Assembly
- C. Vertical Mullion
- D. Horizontal Mullion
- E. Fin Adapter
- F. Back-Up Gasket
- G. Insulbar
- H. Fin
- I. Glass Chair
- J. Clear Heat Strengthened I-pisol Neutral/Platin Glass
- K. Air Spacer
- L. Clear Fully Tempered Heat Soaked Glass

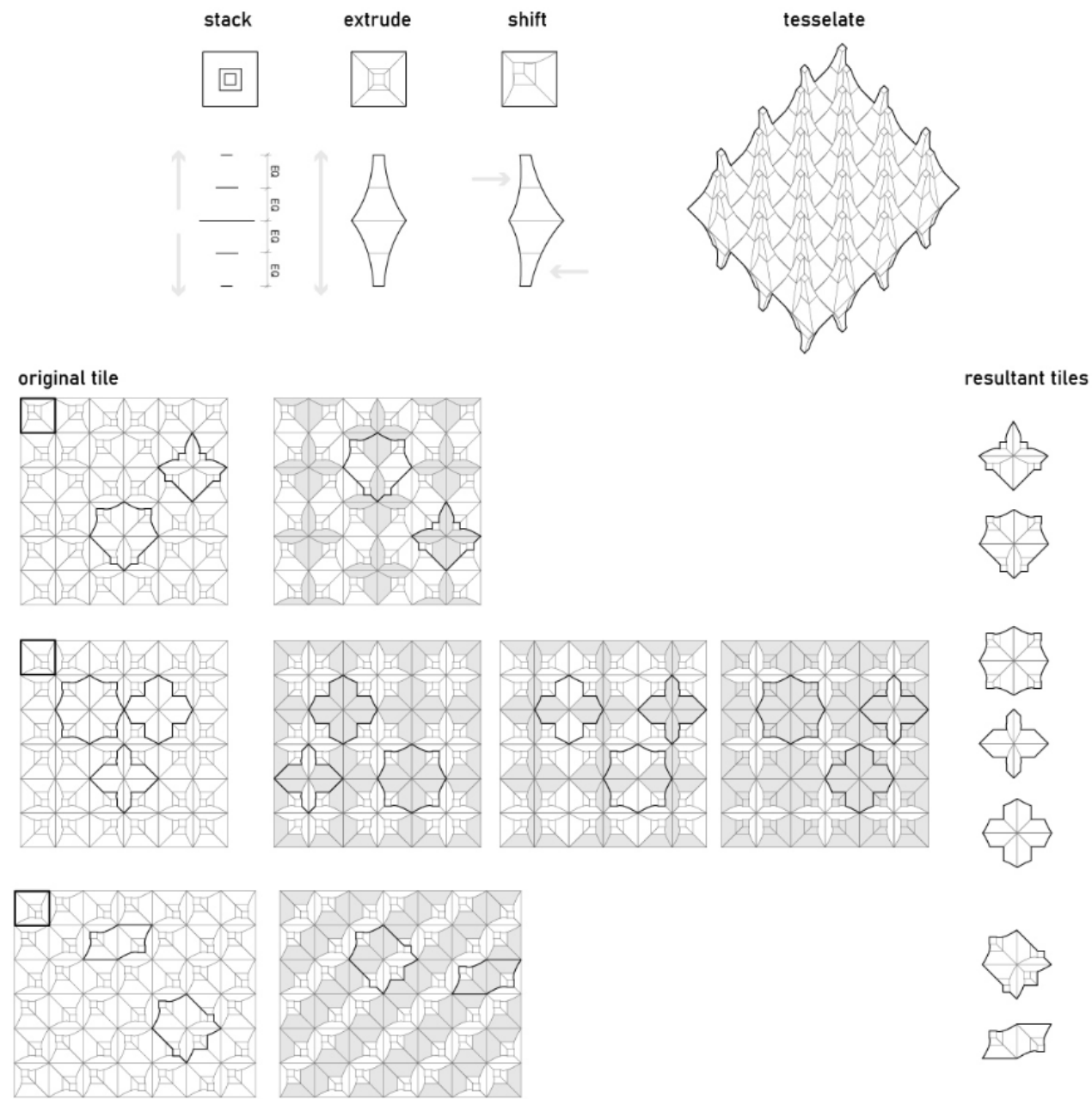
assembly diagram

Tiles constructed of *cast concrete and wax* become tools for exploring *multi-scalar spatial relationships*.

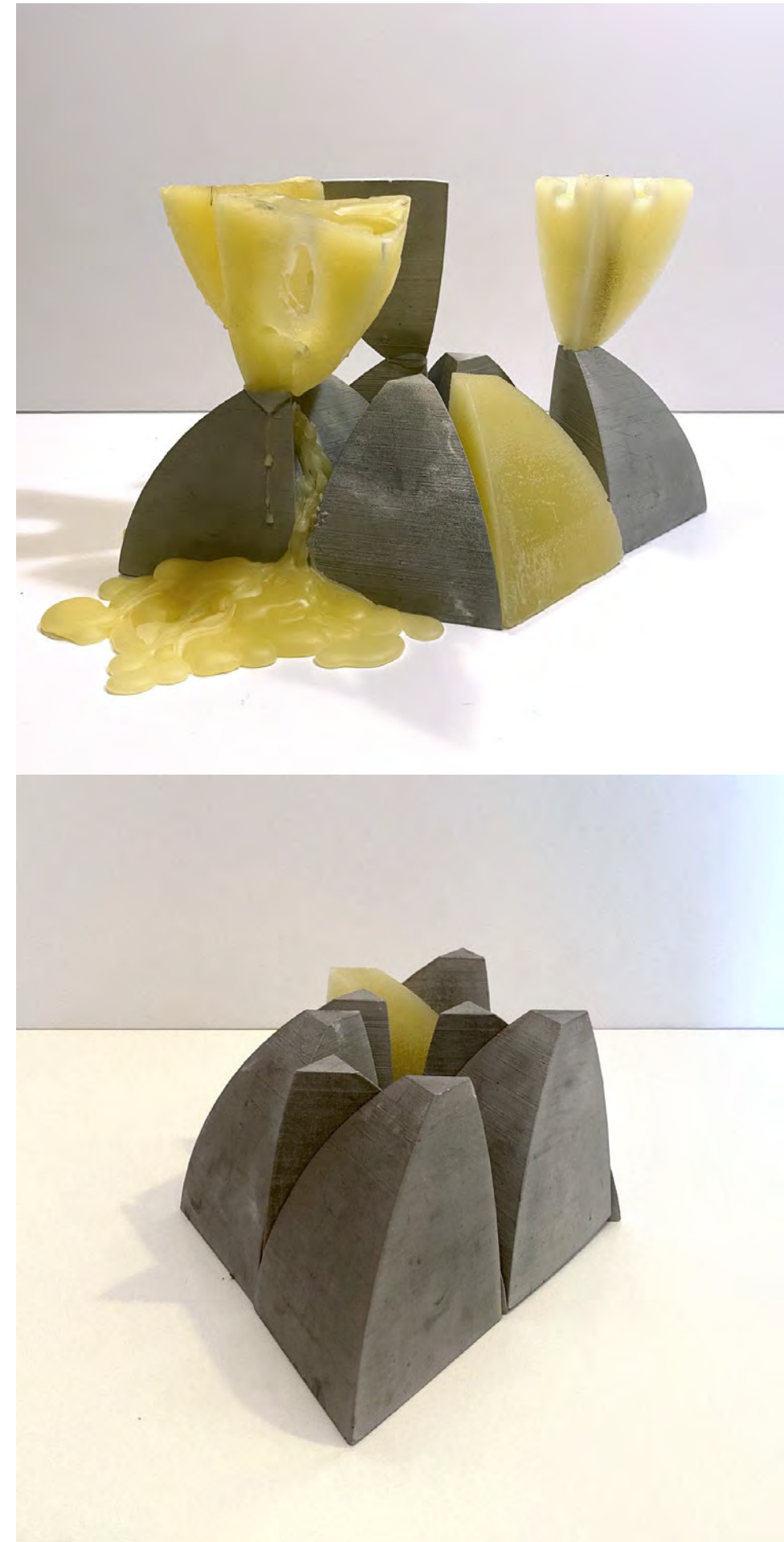
Twist
Transitional Geometries, Fall 2022
Professor Josh Jordan
in collaboration with Kim Langat



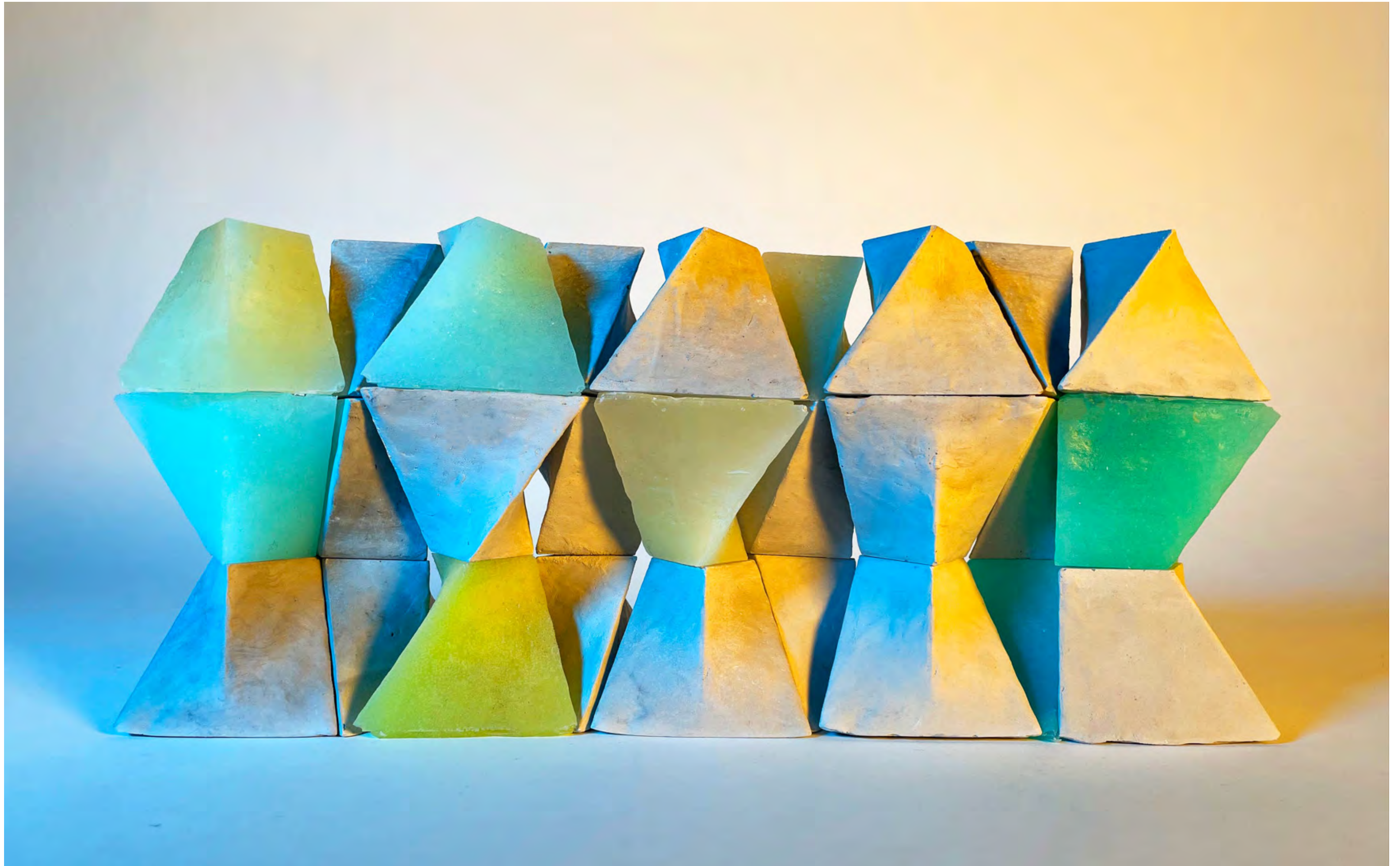
casting diagram



tessellation studies



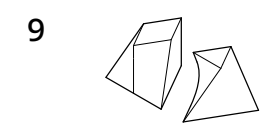
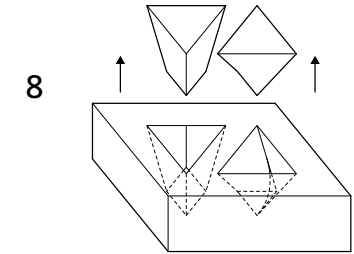
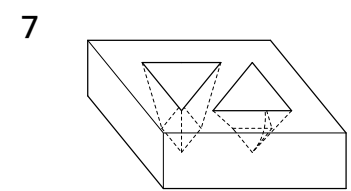
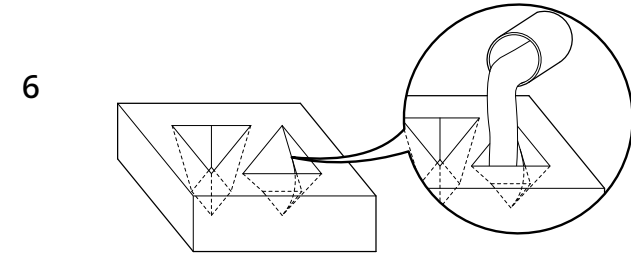
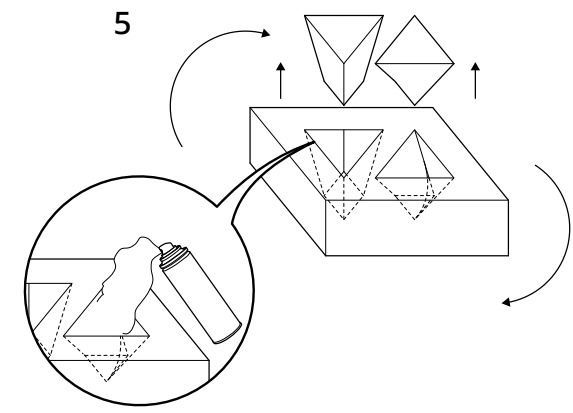
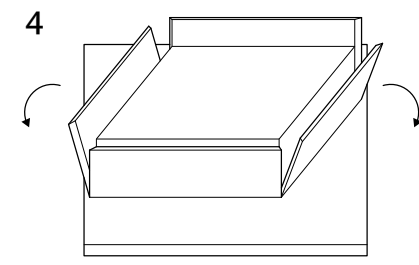
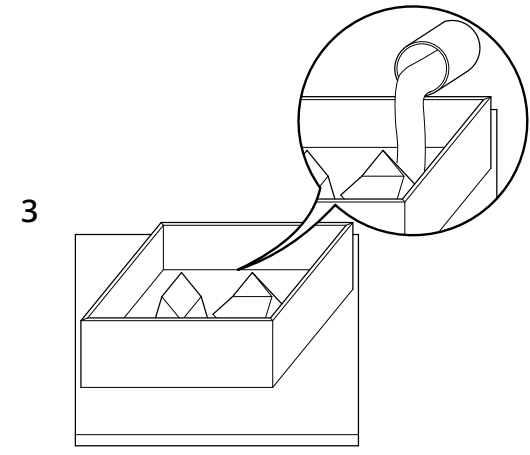
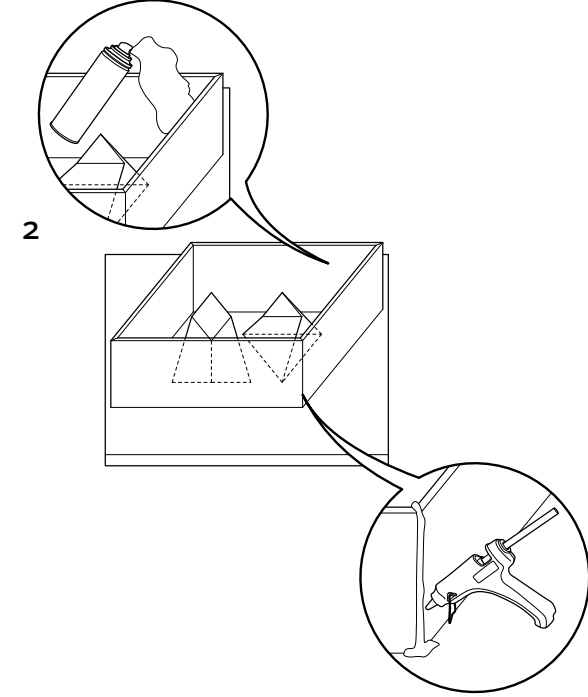
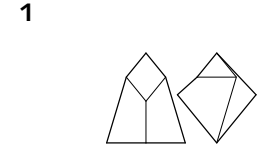
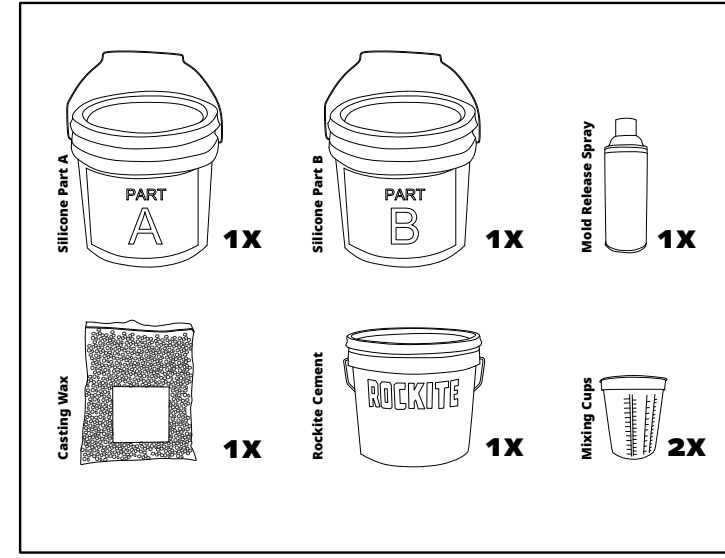
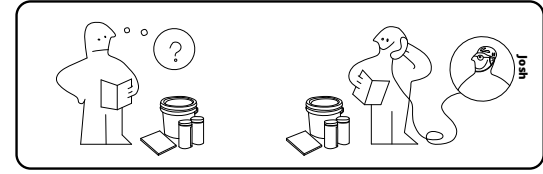
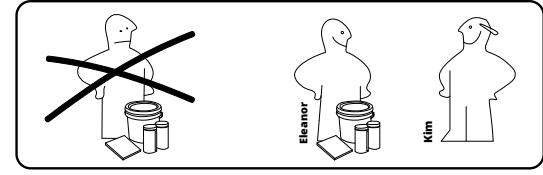
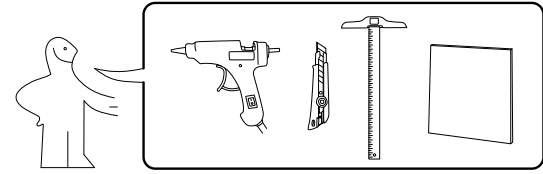
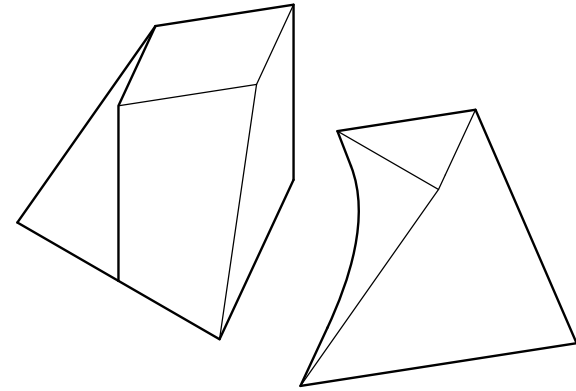
study models



3d tessellation

linear assembly

Twist





material assemblies

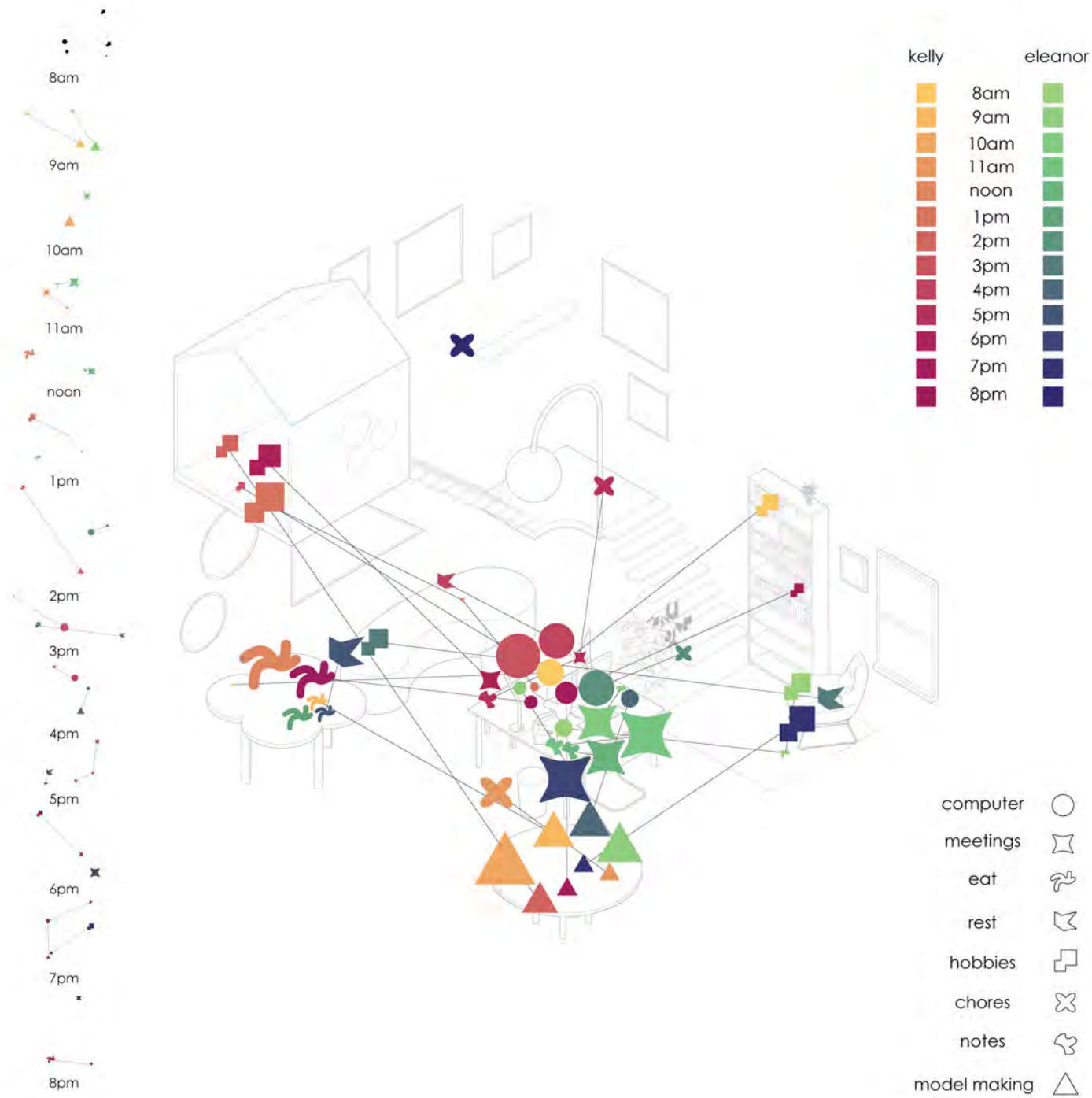


enclosure

Analysis of the simultaneous nature of *shared virtual*
and *individual physical* spaces.

Work from Home
Architecture Drawing and Representation II, Spring 2021
Professor Violet Whitney
in collaboration with Kelly Lee

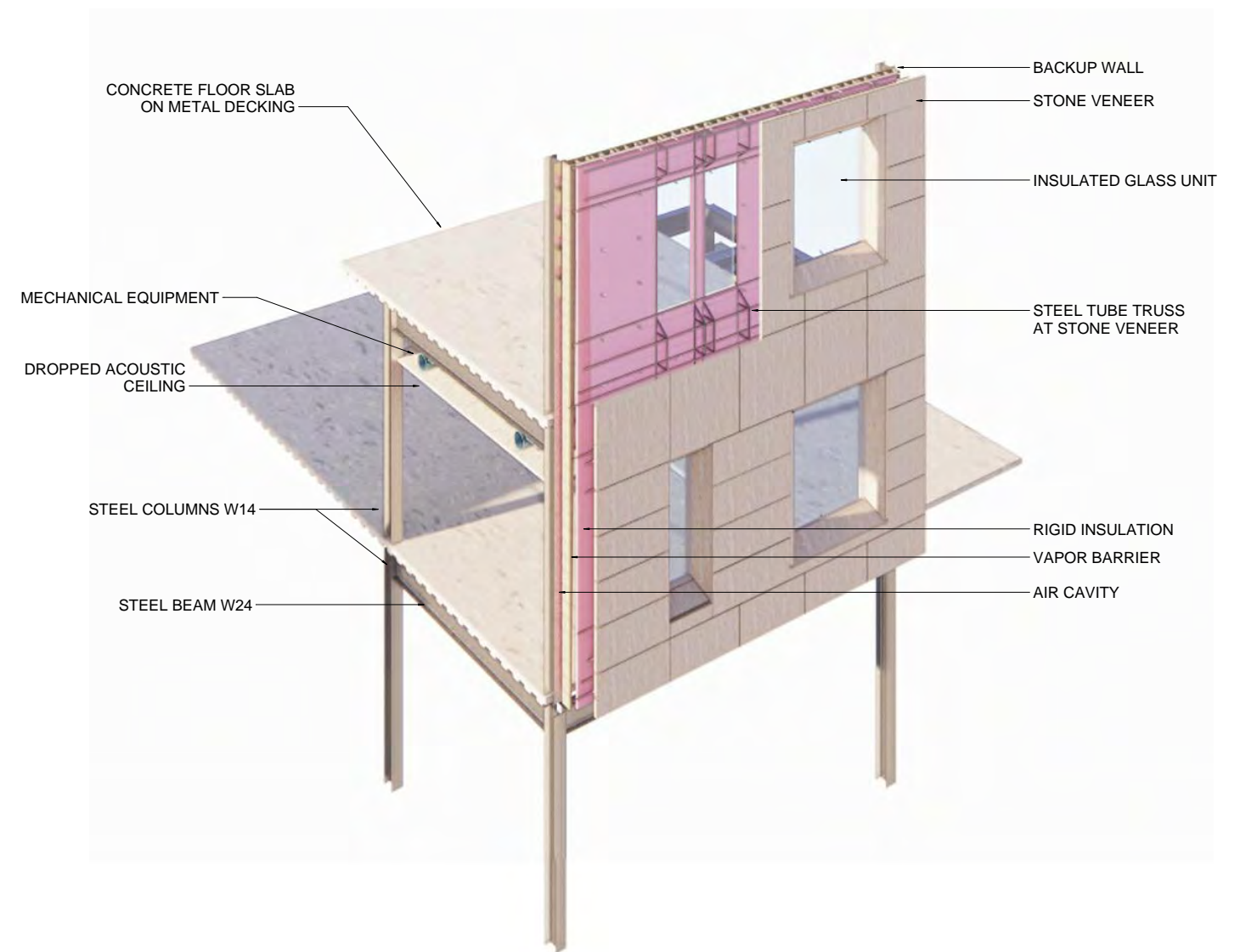




shared spaces, virtual



shared spaces, physical

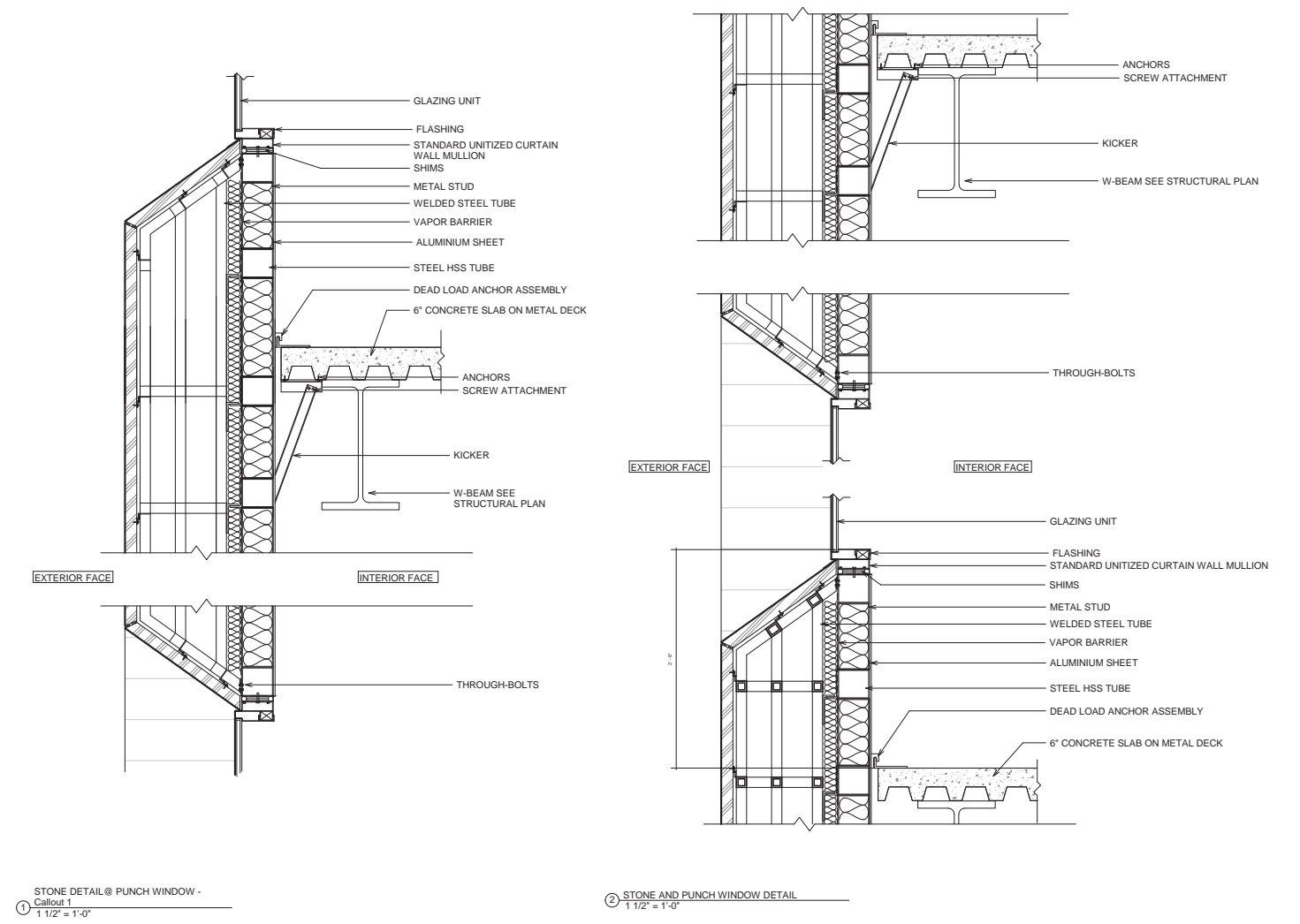


A custom stone and glass facade for a renovated public school and daycare in the East Village, New York

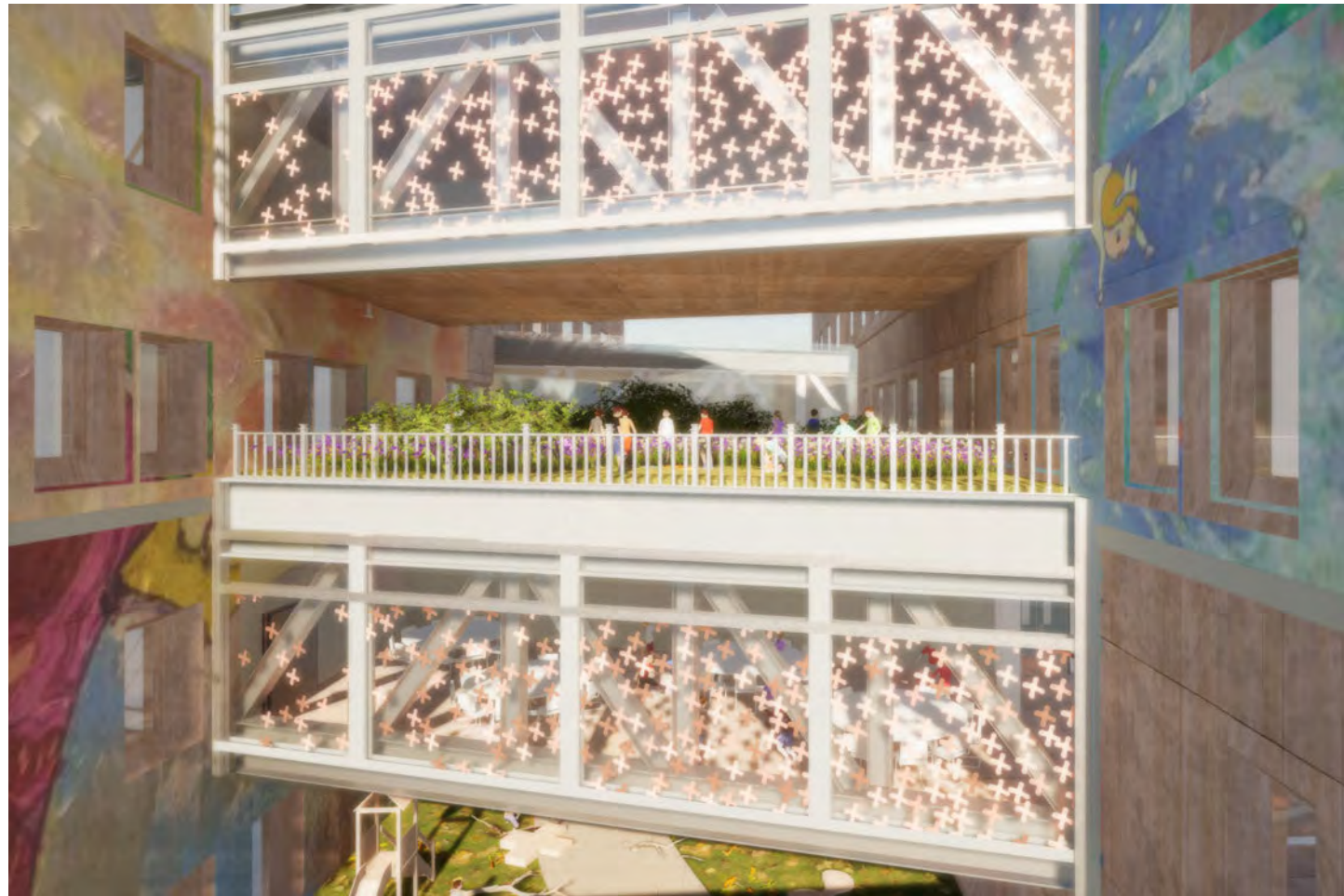
Responsive Facades
 Tech III/IV, Fall 2021
 Professor Tom Reiner, Gaby Brainard, and Berardo Matalucci
 in collaboration with Megan Dang, Anya Ray, Sam Velasquez, and Phoenix Yang



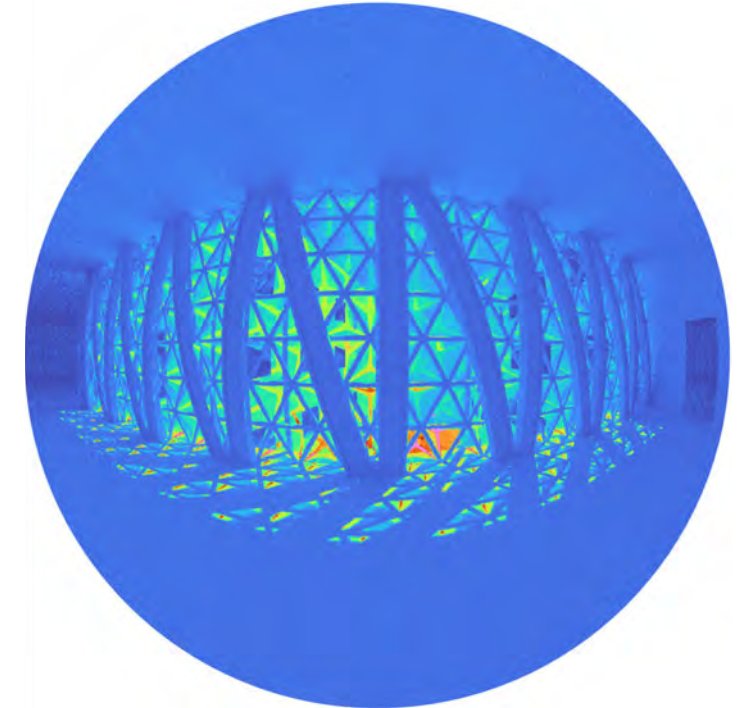
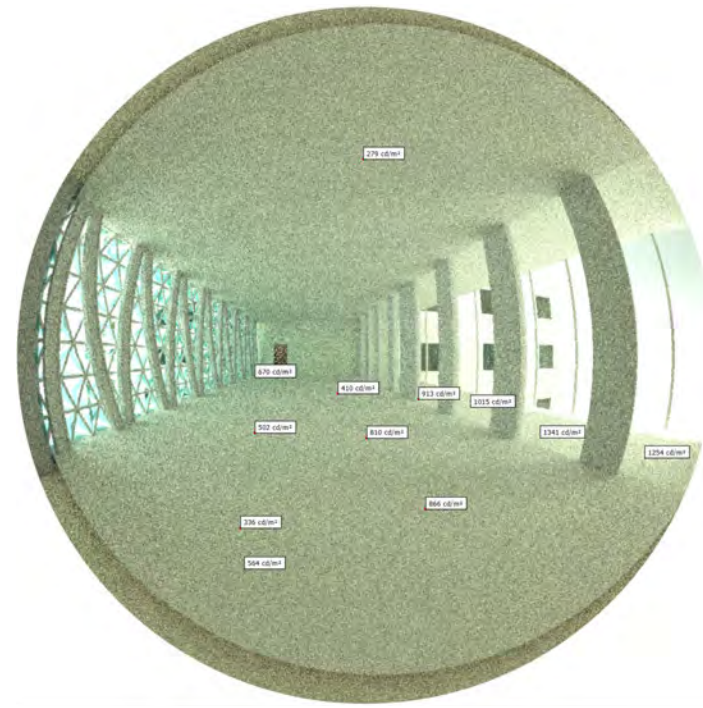
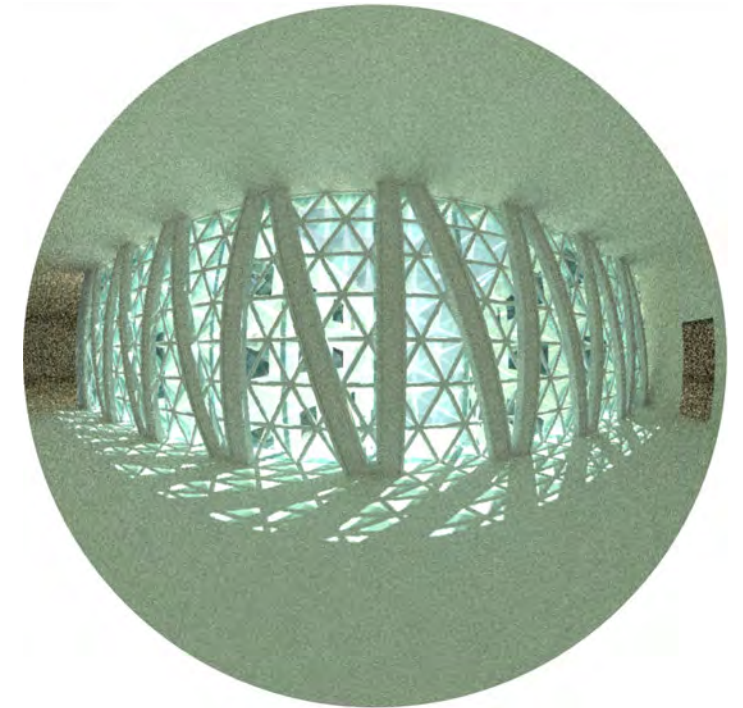
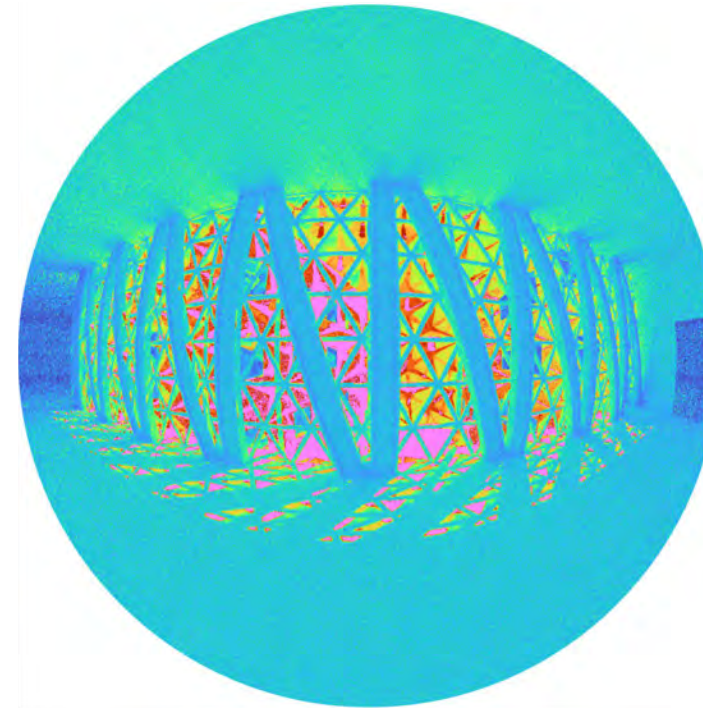
exterior perspective, street



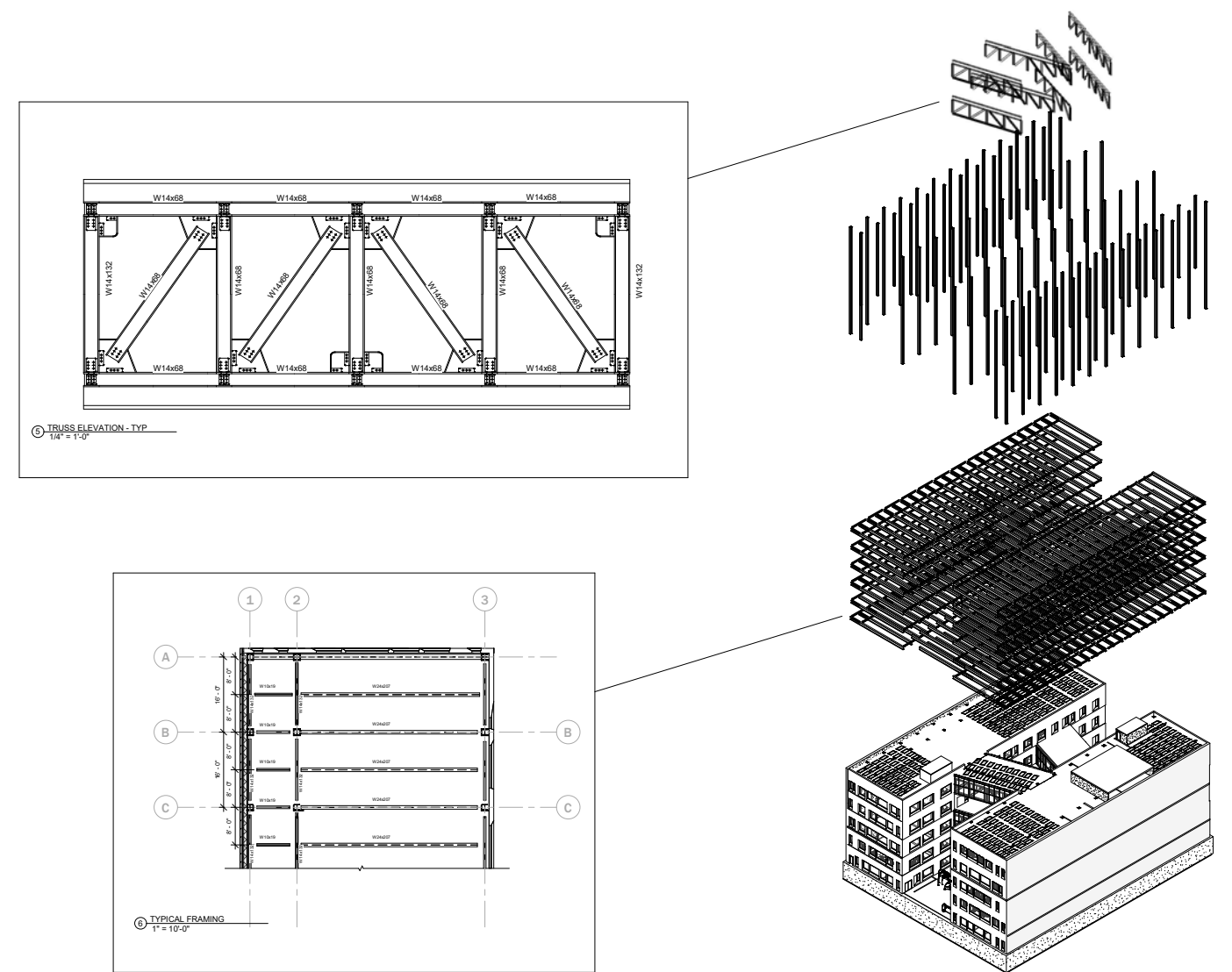
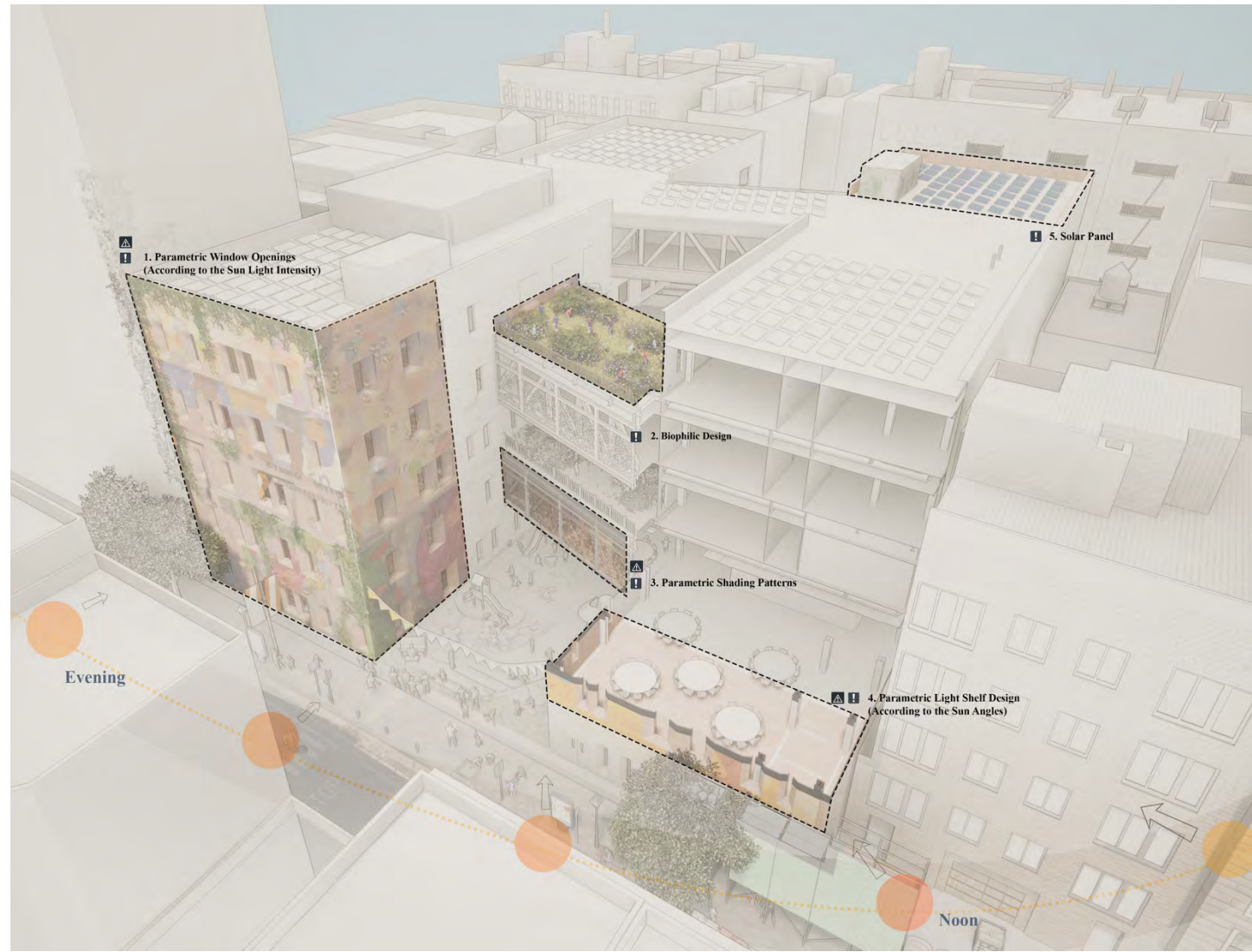
details, stone facade



exterior perspective, bridge



daylighting studies, bridge



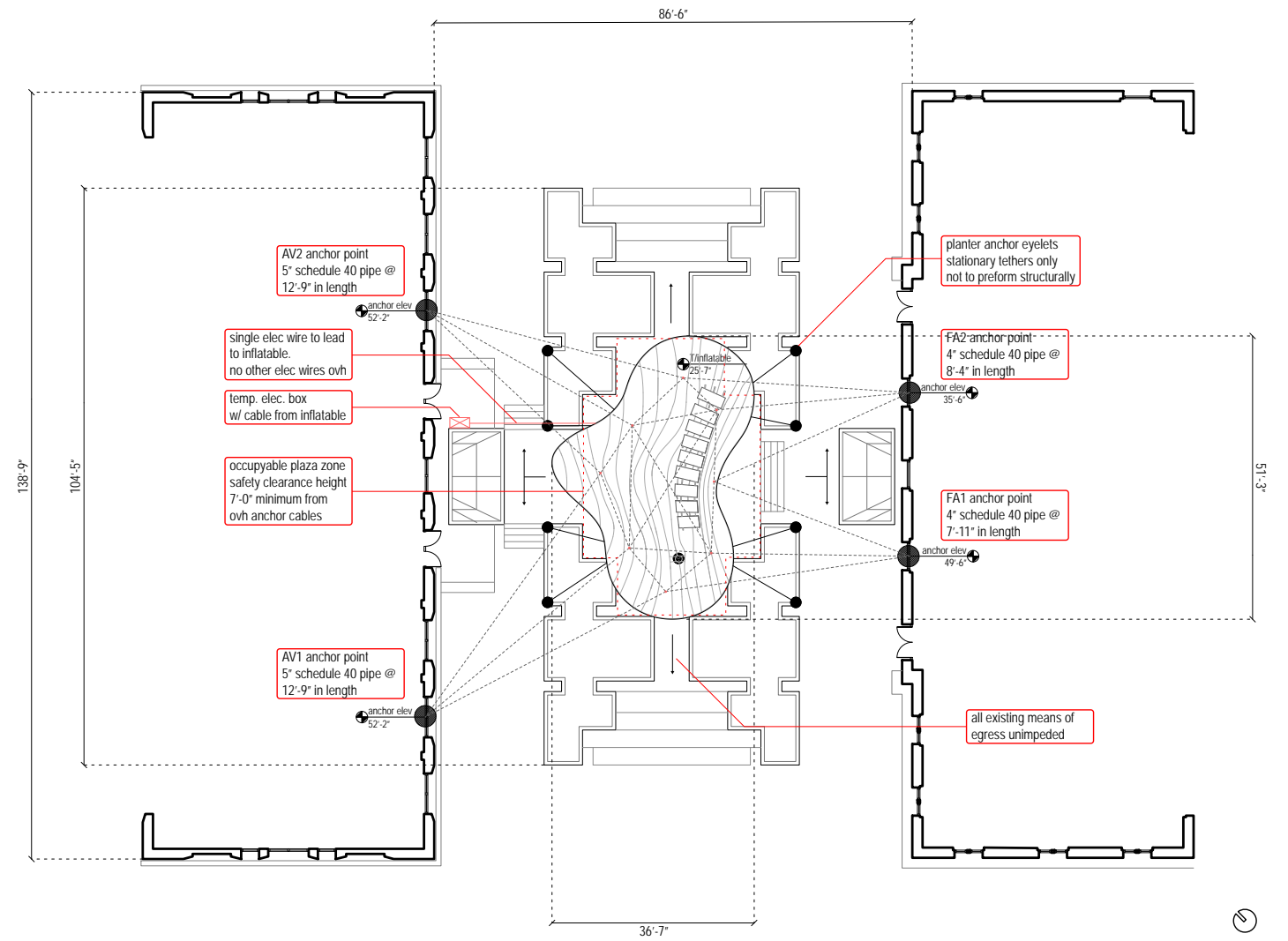
A design-build pavilion activates a public plaza and facilitates safe *outdoor gathering* for students at *Columbia University*.

Avery Spot
The Outside in Project, Spring 2021
Professors Laurie Hawkinson and Galia Solomonoff
20 student design and construction team
photographs by Josh Jordan, Sirin Samman, and me

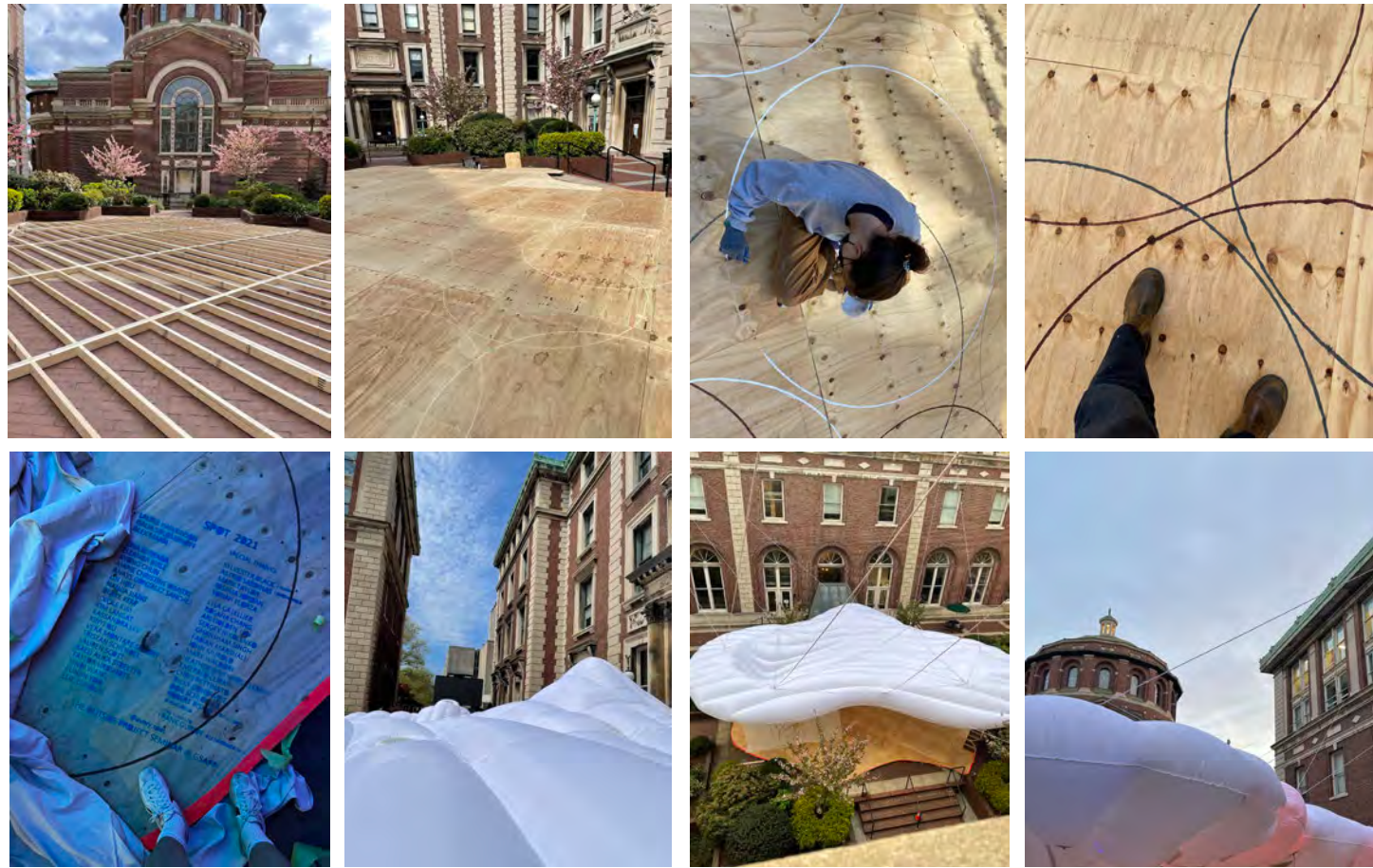




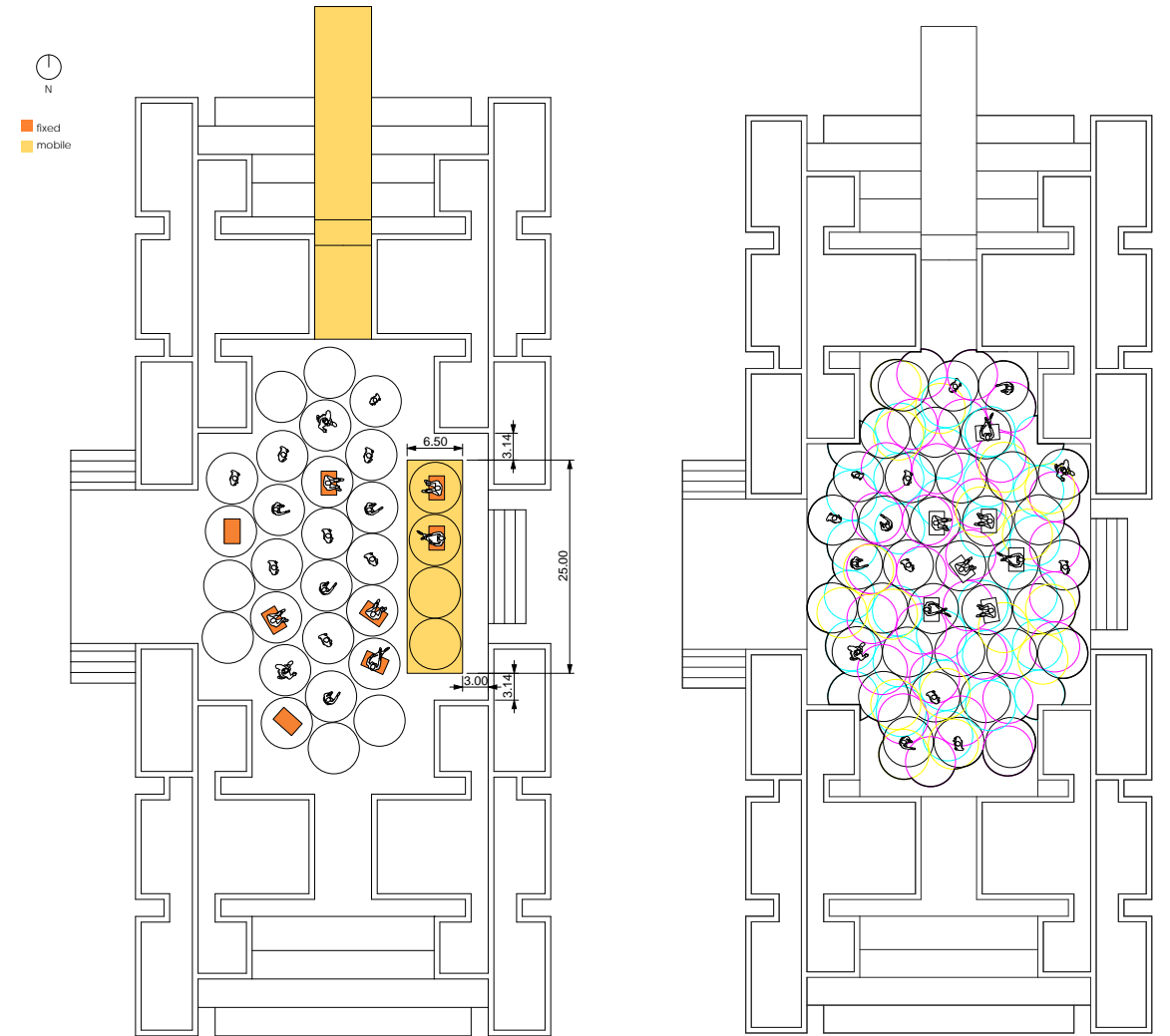
night activation



assembly plan



construction photos



platform design iterations



Eleanor Lucas Birle
Columbia University GSAPP
Master of Science in Architecture
2020 - 2023