LOPITADAS

Selected Architectural Work
Pratt Institute
2016-2020

LOPITA DAS

+1.201.281.2122
lopita.das8@gmail.com
200 Willoughby Ave.
Unit 57581
Brooklyn,
NY 11205- 7502

SKILLS

Software:
Rhinoceros, T-splines, Grasshopper, AutoCAD, Revit, V ray Render, Illustrator, Photoshop, Indesign, SketchUp, PowerMill, RhinoCAM

Other:
Model Making, Drafting Sketching, Hand Drafting, Laser Cutting, CNC Certified, 3D Printing, Robot Milling

Languages:

English	Proficient
Hindi	Proficient
French	Intermediate
Italian	Intermediate

EXPERIENCE

Intern at H+A, Dubai | Nov-Dec 2020
Supported the team with on-going projects.

Intern at Killa Design, Dubai | Sept-Oct 2020
Setup and developed content for design reports and boards.

Robotics Lab Monitor | Fall 2020
Proofchecked files using PowerMill software. Milled using ABB IRB 2600 robot, 5 axis milling.

Computer Lab Monitor | Fall 2019
Hands on knowledge of large scale printing and plotting.

Intern at Perkins+Will, Dubai | May 2018- Aug 2018
Produced drawings and developed 3D model for multiple built projects and competitions.

Research Assistant at Morphology Department | Jan 2018 - May 2018
Autonomous house under William Katavolos.

Intern at Archgroup International, Dubai | August 2017
Worked on site and helped along construction documents.

Pratt Precollege Major Mentor | July 2017
Conducted technical learning assistance workshops for high school students.

Theta Phi Alpha- Women's Business Fraternity | Fall 2016 - Present
Treasurer for 2 years.

ACHIEVEMENTS

Presidential Merit Based Scholarship | Fall 2016 - Present
Highest merit based scholarship.

Work Published in school magazine:
Technics | InProcess 23 (Fall'16)
Design 202 | InProcess 24 (Spring '18)
Design 302 | InProcess 25 (Spring '18)
Design 401 | InProcess 26 (Summer'19)

President's List | 2018-2020
Awarded for outstanding GPA

Pratt Technics Project | 2016
Awarded first place with Passachon Wiyaporn.

Pratt Honors Program | Spring 2020
Rome

EDUCATION

Pratt Institute // Bachelor of Architecture | August 2016-
Bachelor's Degree, GPA 3.769 Expected Graduation 2021

Gems Modern Academy // Dubai, U.A.E | September 2004- May 2016
High School Diploma

PreCollege Summer Program // Pratt Institute | July 2015
4.00 GPA

SELECTED ARCHITECTURAL WORKS

Bridge the Gap: Rome
advanced design III
professor Lawrence Zeroth
spring 2020

Reclaiming Toxicity
advanced design II
professor Christian Lynch and Reese Campbell
fall 2019

Plug In Housing
advanced design I
professor Deborah Gans and Jim Garrison
summer 2019

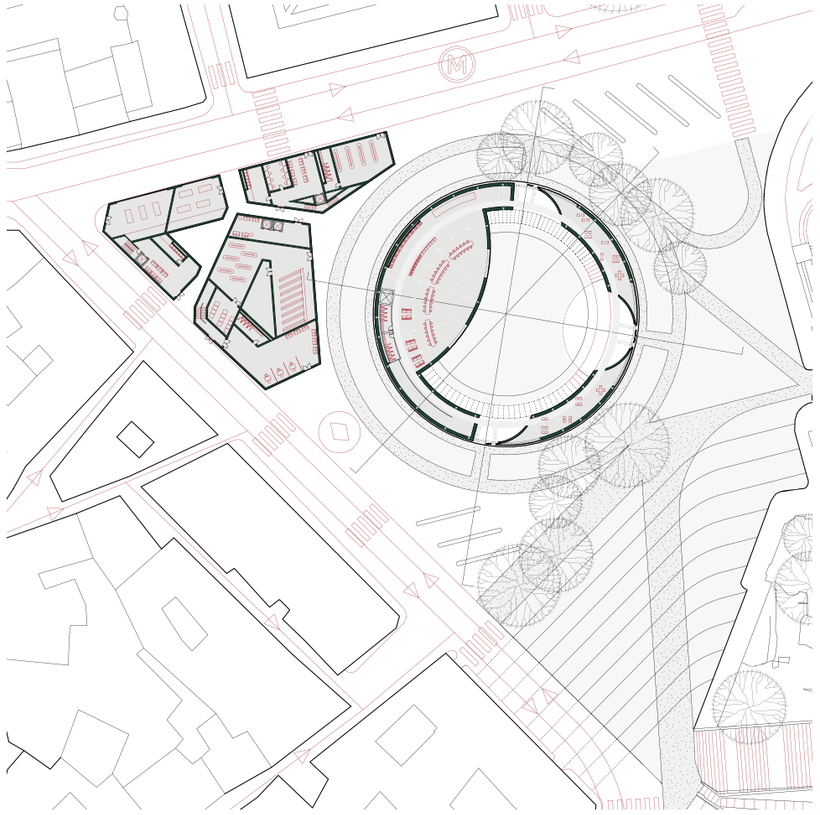
Recalibrating the Essential: Boathouse
comprehensive design II
professor Beth O'Neil
spring 2019

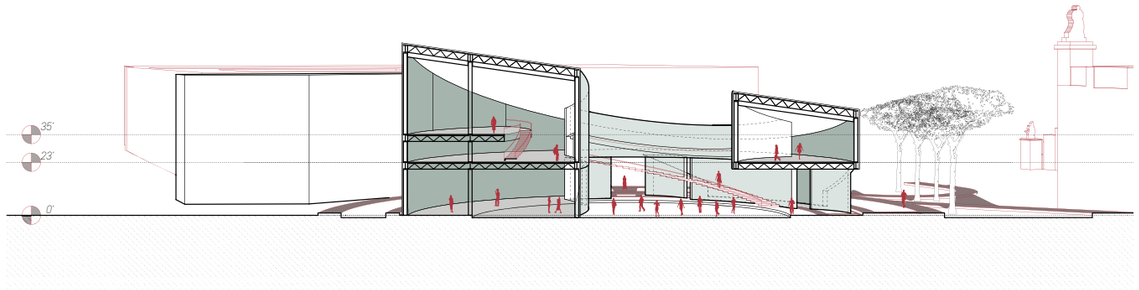
Estuarial Bifurcation: Dormitory
comprehensive design I
professor Leonnard Leung
fall 2018

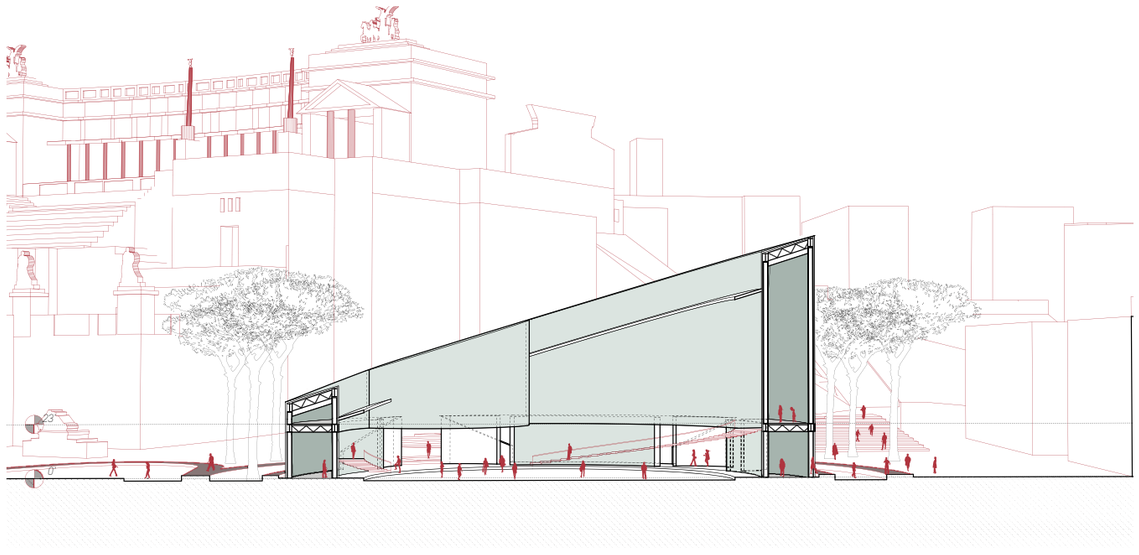
Polar Amalgamate: Library
intermediate design II
professor Anne Nixon
spring 2019

Endless Drawing: Drawing Machine
representation II
professor Danielle Willems
spring 2017

Tensegrity
technics
professor Kyle Hovenkotter
fall 2016



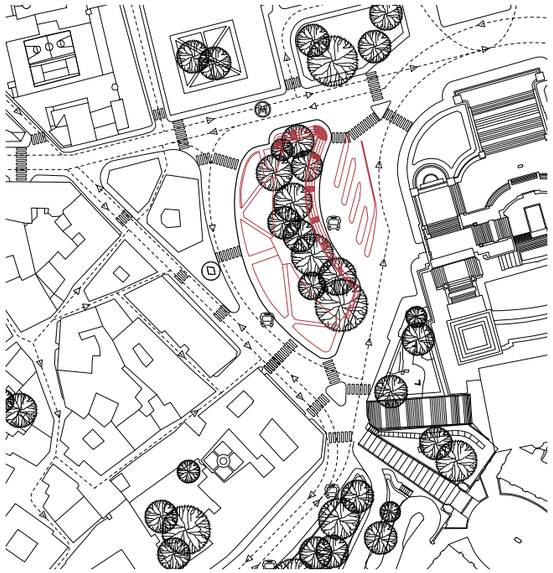


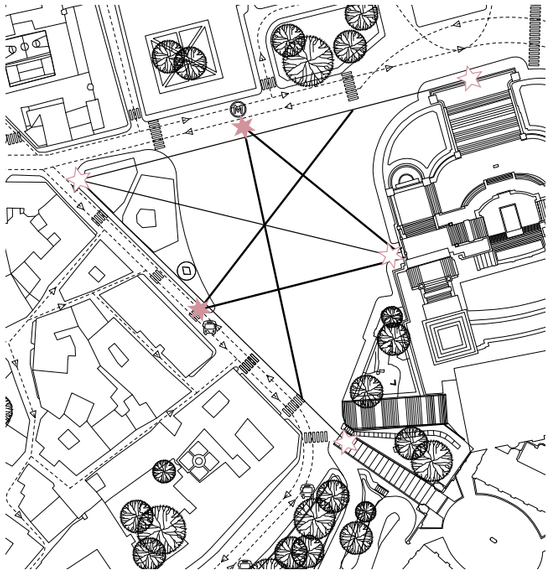


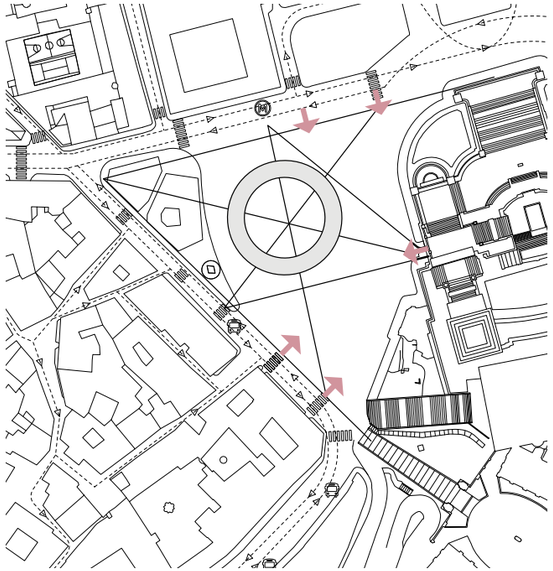
Bridge the Gap

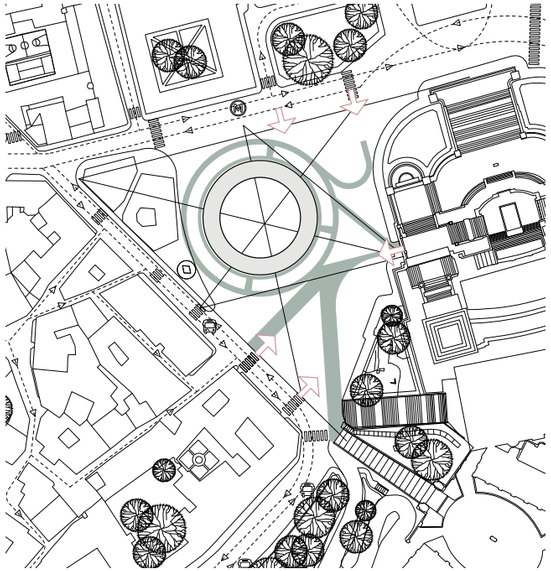
Critic: Lawrence Zeroth

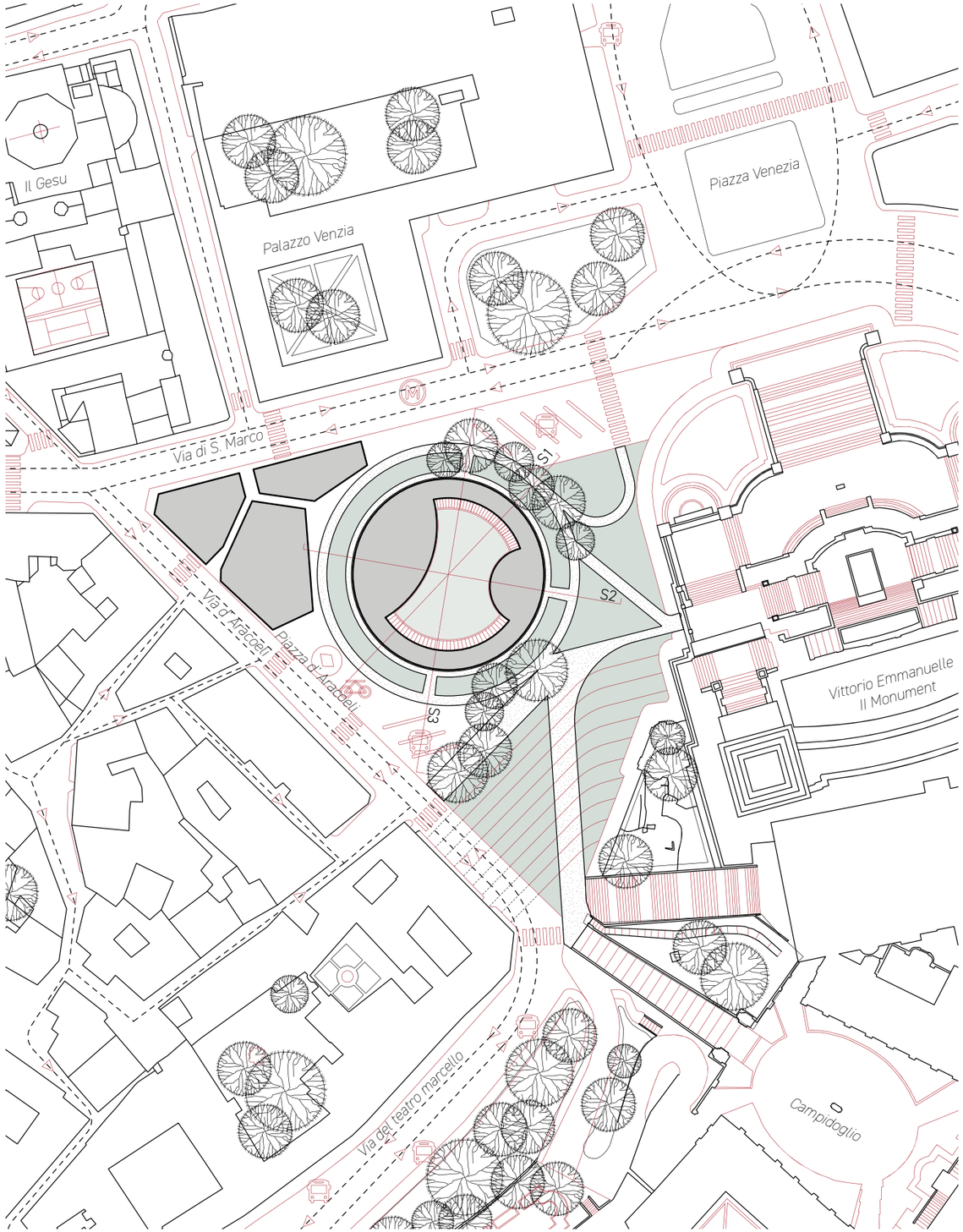
Site: Piazza Venzia, Rome
Understanding Rome as a crossroad of differences that come together in a beautifully chaotic manner. This project acts as an urban catalyst that provides for the different factions of Rome (resident and tourist.) An entity that bridges the gap within the community and creates a sense of belonging for every occupant.





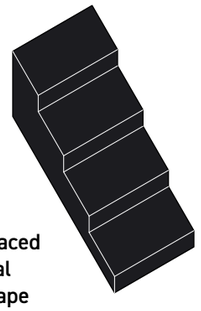




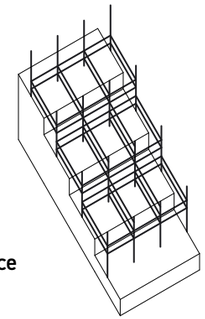

Il Gesu
Palazzo Venzia
Piazza Venezia
Via di S. Marco
S1
S2
S3
Via d'Aracoeli
Piazza d'Aracoeli
Vittorio Emmanuelle
II Monument
Via del teatro marcello
Campidoglio

Reclaiming Toxicity

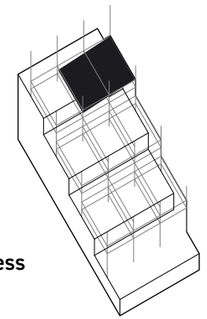
Critic: Christian Lynch and Reese Cambell



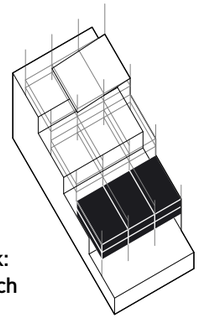
1. Terraced artificial landscape



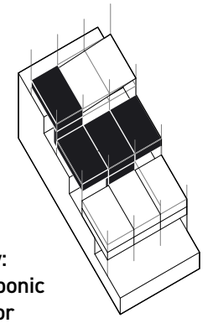
2. Space Frame



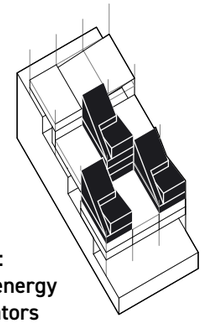
3. Access



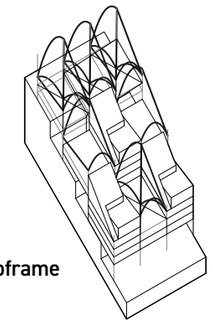
4. Work: Research Labs



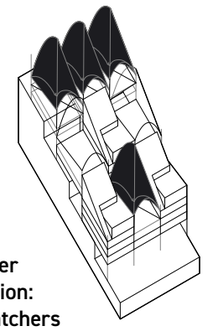
5. Play: Hydroponic corridor



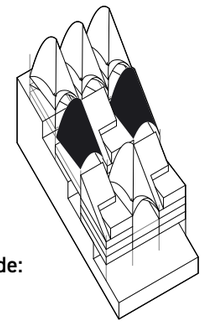
6. Live: Solar energy generators



7. Subframe



8. Water collection: Fog Catchers

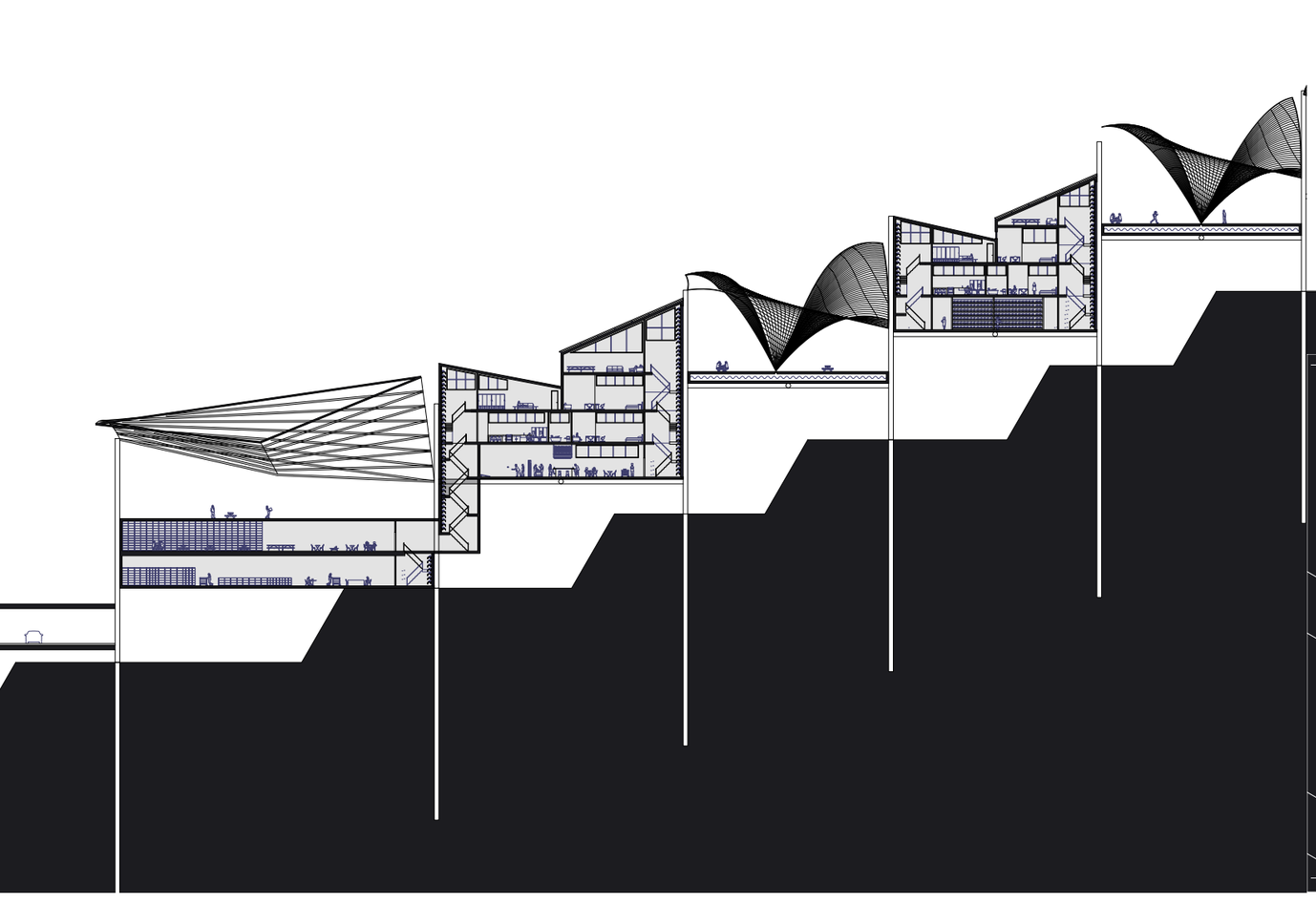


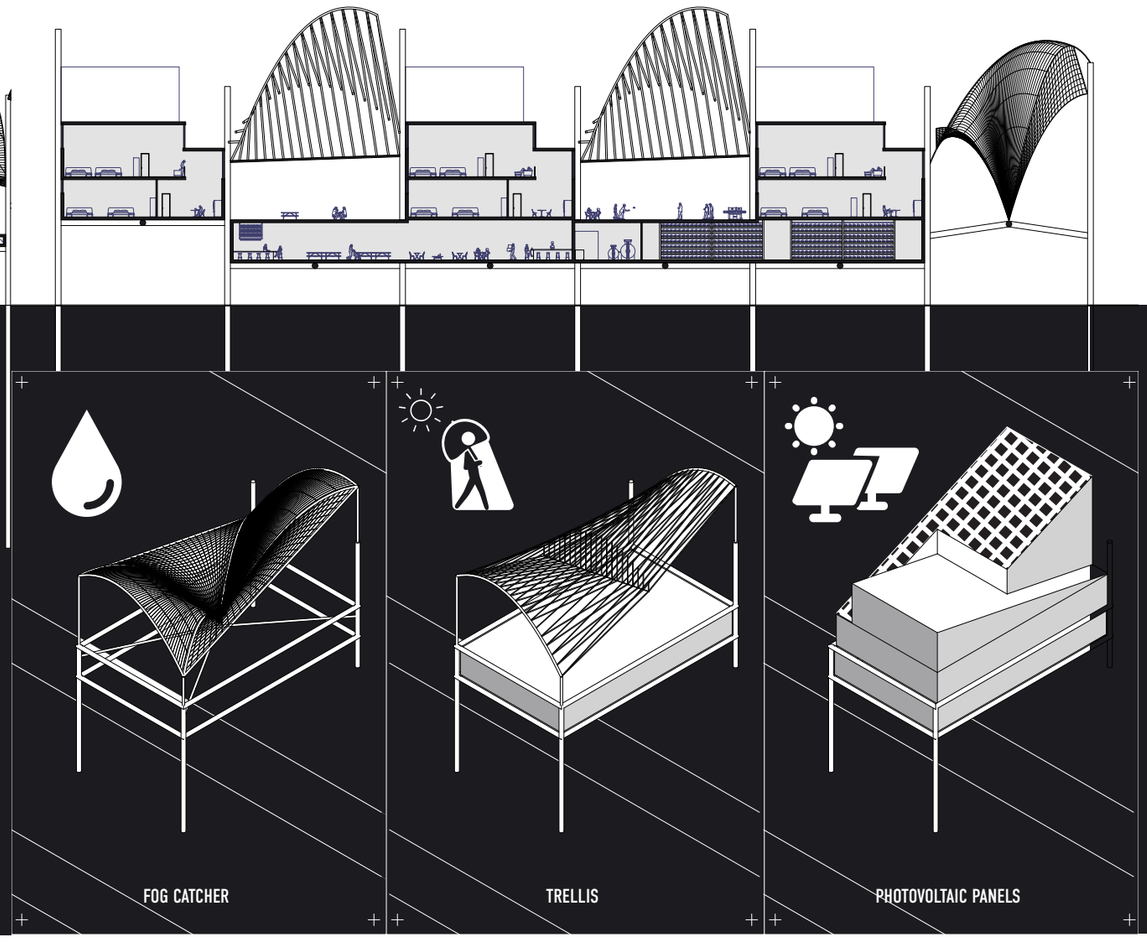
9. Shade: Trellis

In partnership with Allyson Reyes

Site: Atacama Desert
Rehabitalization of one of the biggest exporters of copper mining in the world. The mining has created an artifical landscape and varied the ecosystem of the surrounding drastically. Responding to the rising levels of toxicity and learning to co-exist in a dystopic era.

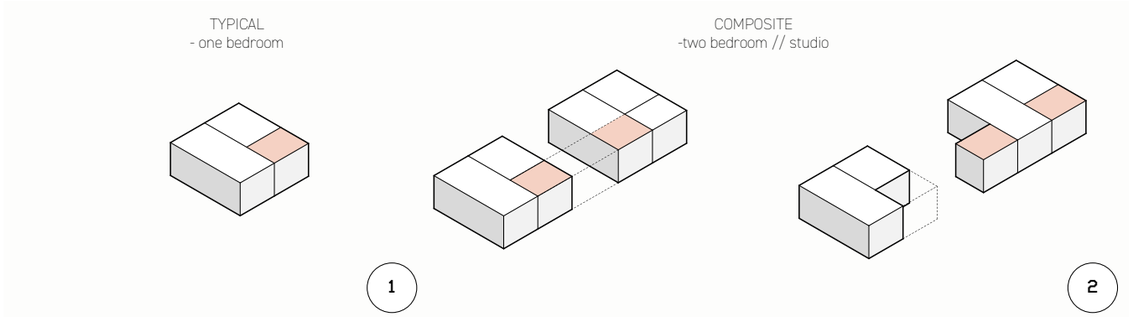
Architectural elements activated for rehabitulating into the dry costal environment. Fog catchers are a synthetic webbing that collects the cold dry air water particles. The trellis uses the same subframe as the fog catchers but provide much needed shade. The chamfered slopes are calibrated to absorb maximum solar energy.





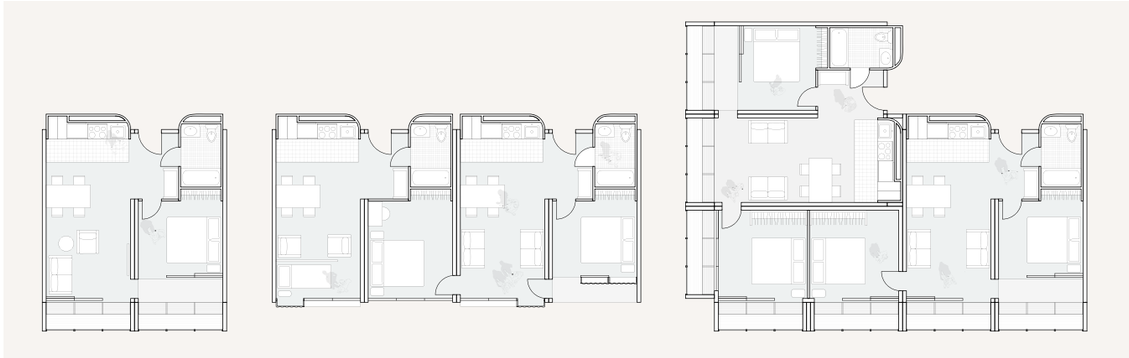
Housing as a Plug-In

Critic: Deborah Gans and Jim Garrison



Unit Variation Diagram

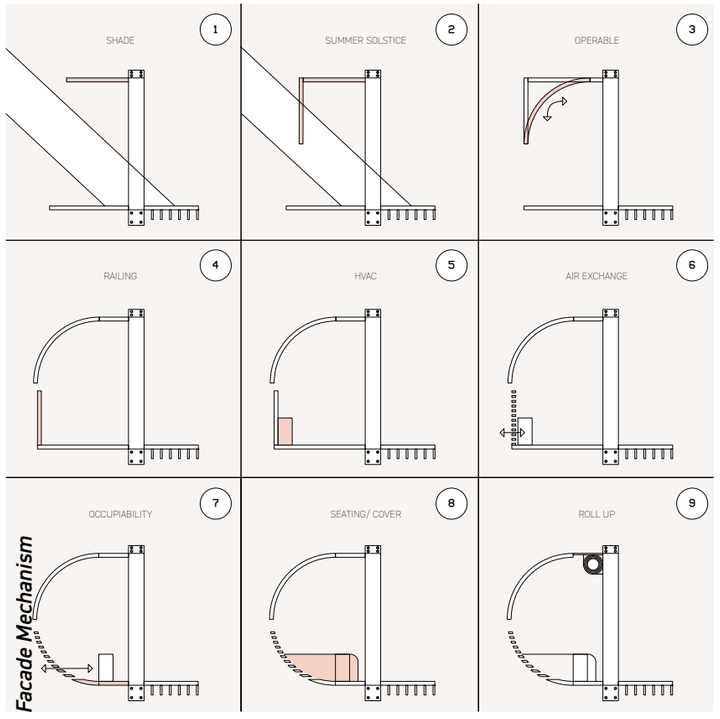
A system of blocks that configure to provide the arrangement.

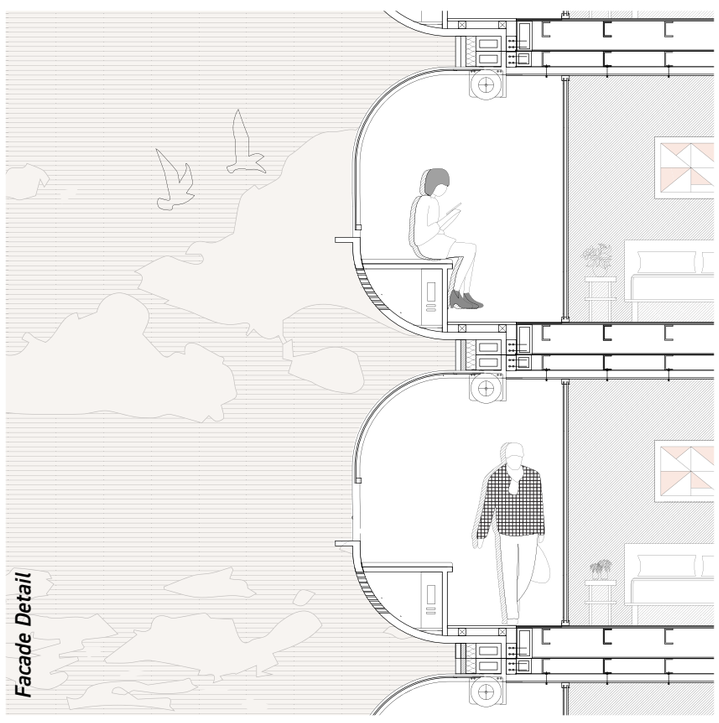


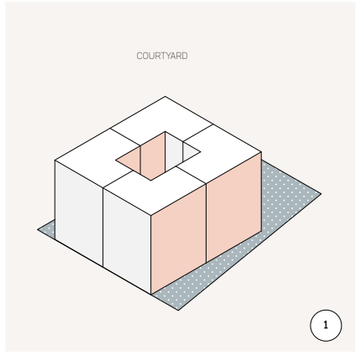
Unit Plans

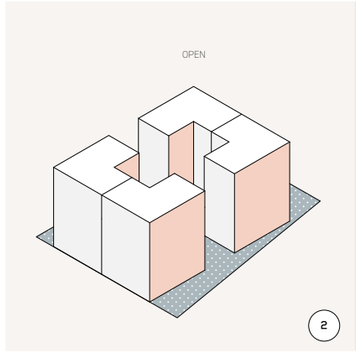
In partnership with Isabela Campillo.

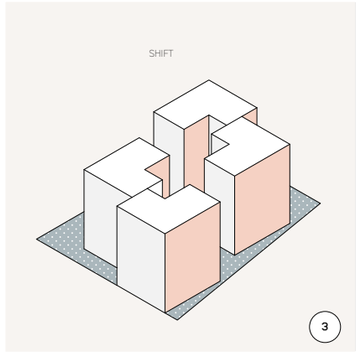
Site: New York City.
To capture the cost savings, efficiencies and potentials of factory production in pursuit of high quality,
affordable housing for New York City, understanding housing as an industrial product - like a car and to reshape the modular housing industry.

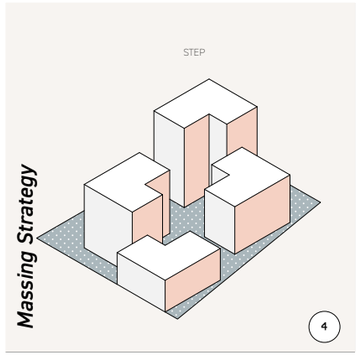

Facade Mechanism
1
SHADE
2
SUMMER SOLSTICE
3
OPERABLE
4
RAILING
5
HVAC
6
AIR EXCHANGE
7
OCCUPIABILITY
8
SEATING/ COVER
9
ROLL UP


Facade Detail

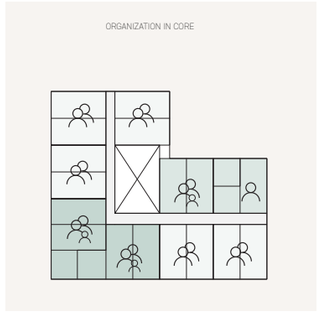

COURTYARD
1

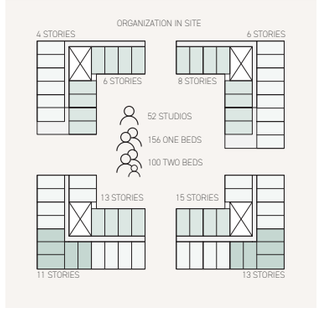

OPEN
2

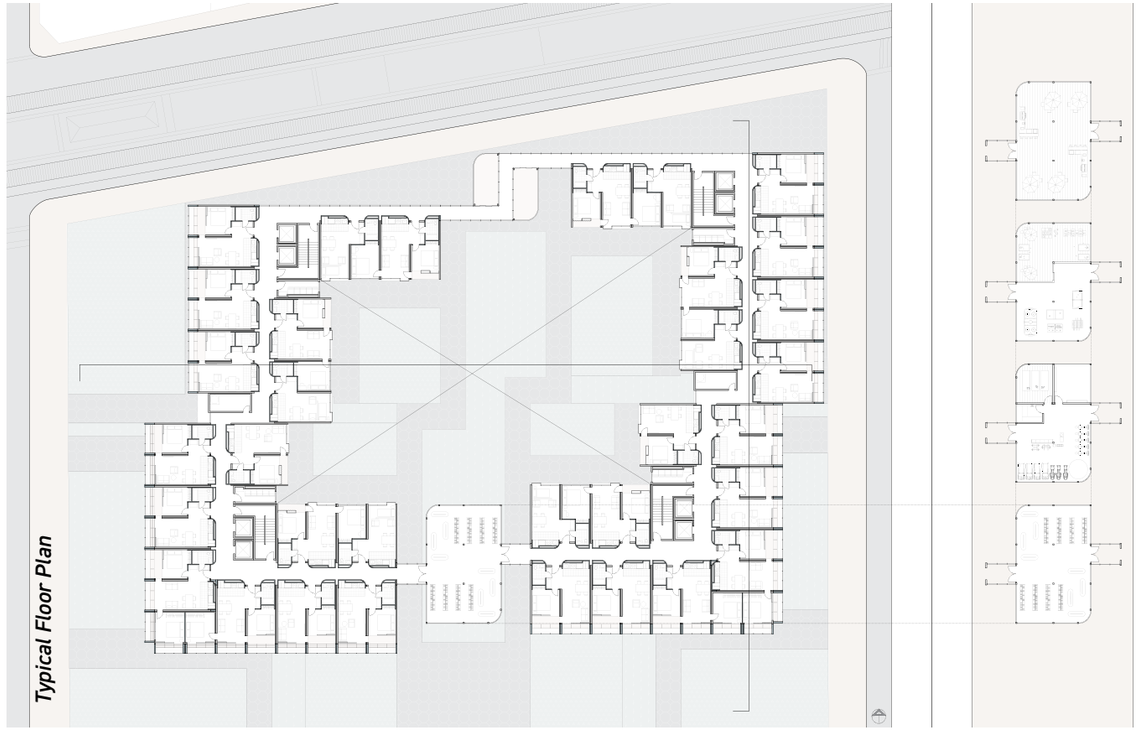

SHIFT
3

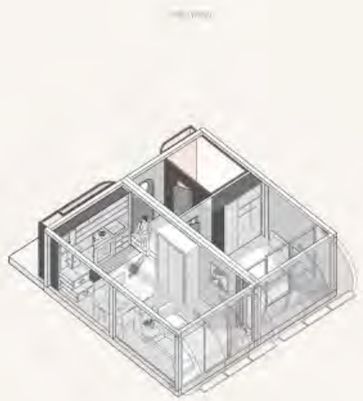

Massing Strategy
STEP
4

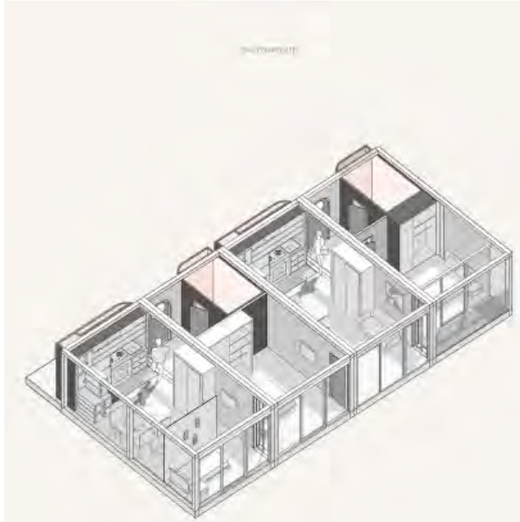

Ground Floor Plan


ORGANIZATION IN CORE

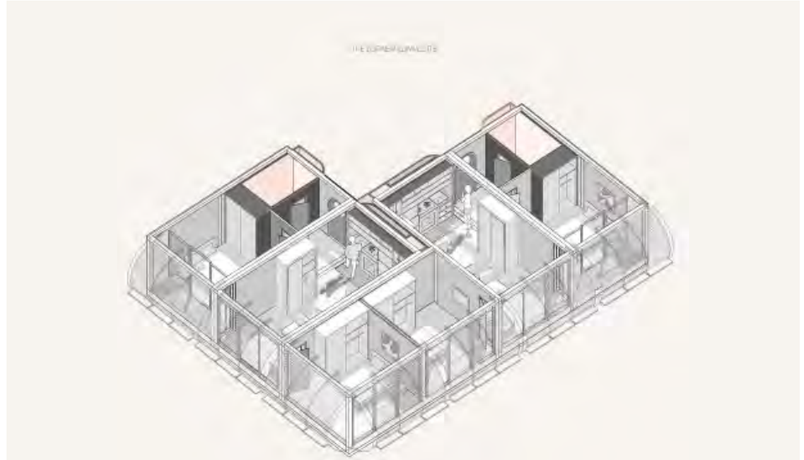

ORGANIZATION IN SITE
4 STORIES
6 STORIES
6 STORIES
8 STORIES
52 STUDIOS
156 ONE BEDS
100 TWO BEDS
13 STORIES
15 STORIES
11 STORIES
13 STORIES

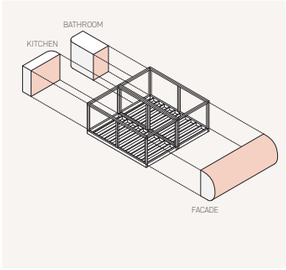

Typical Floor Plan

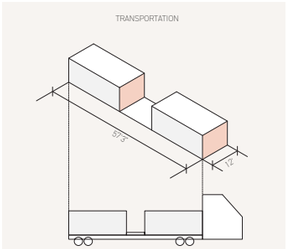


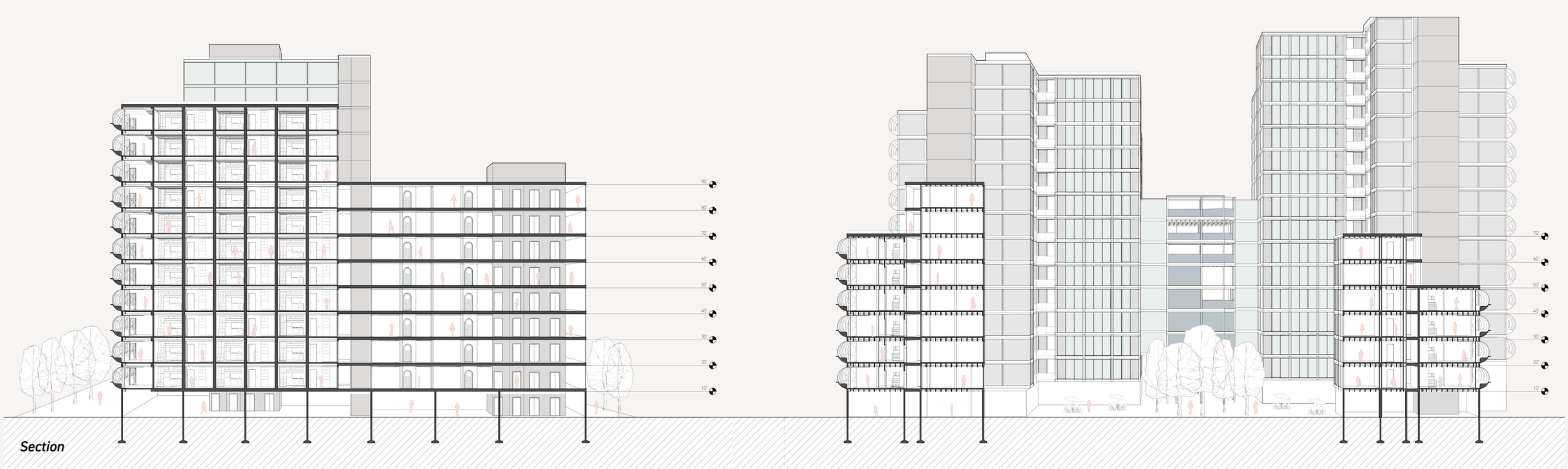


Plug Ins Axonometric

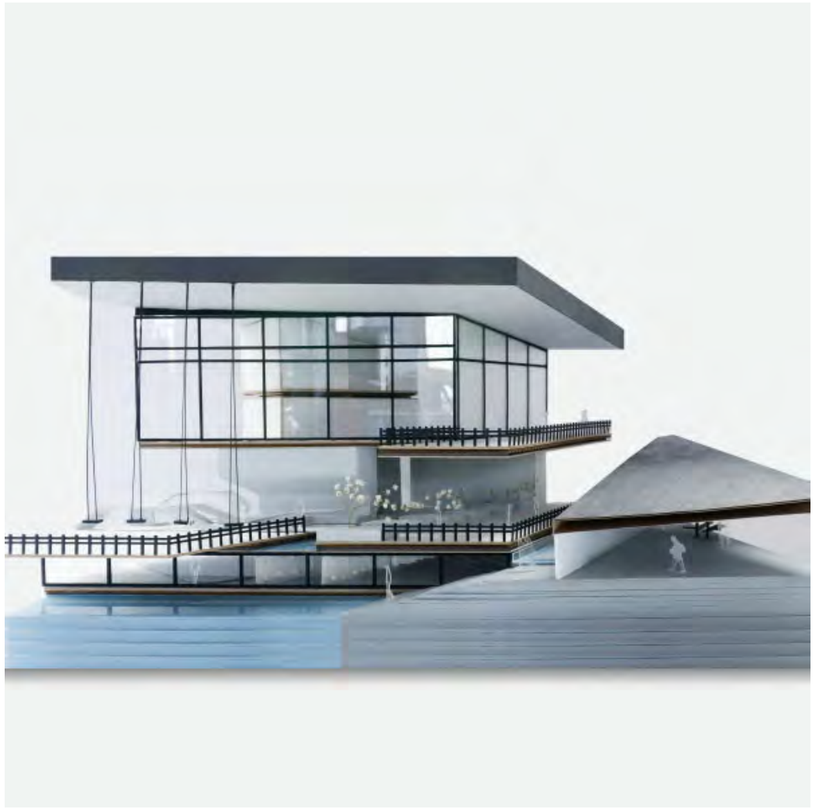








Section

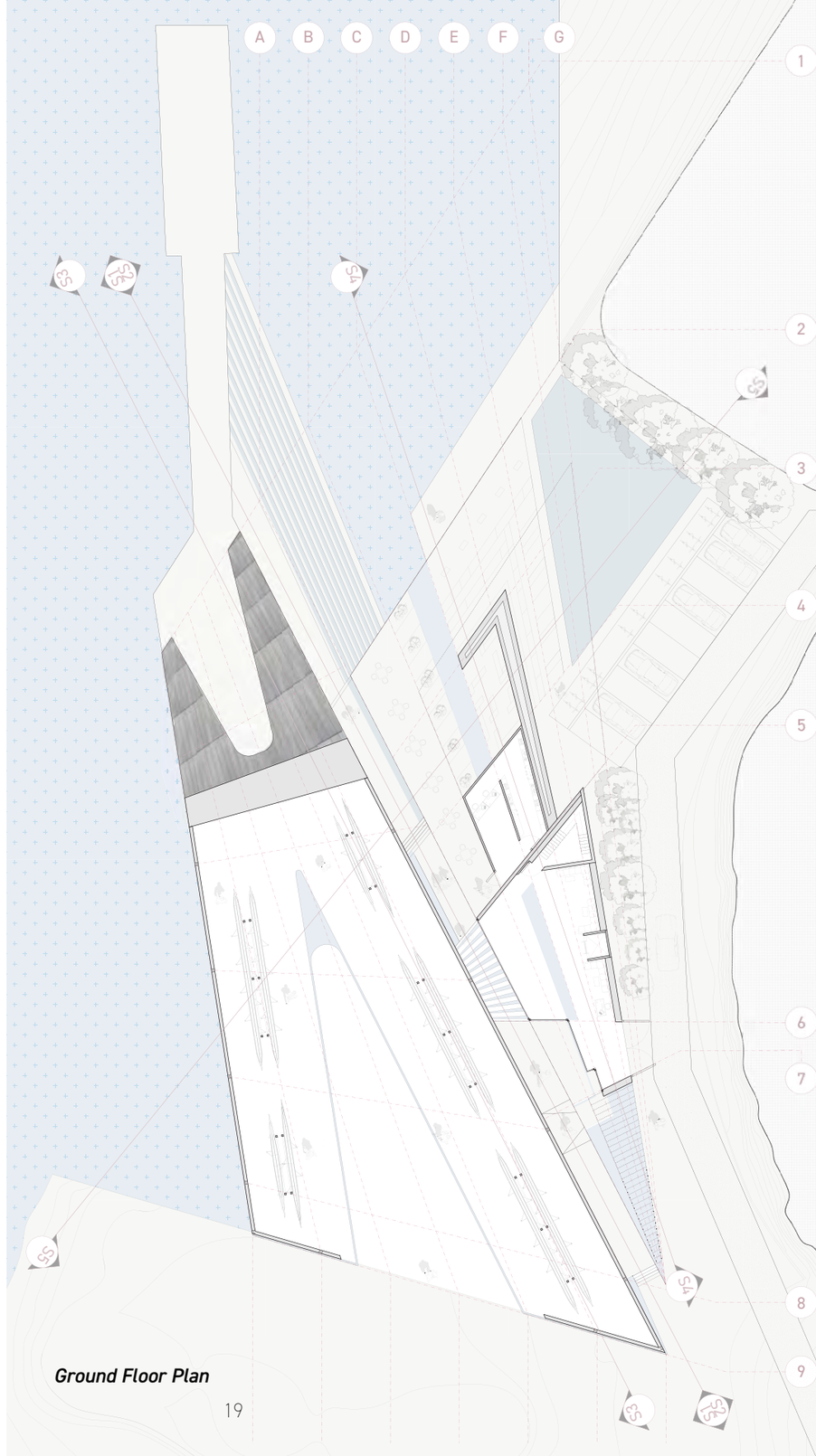


Recalibrating the Essential: Boathouse

Critic: Beth O'Neil

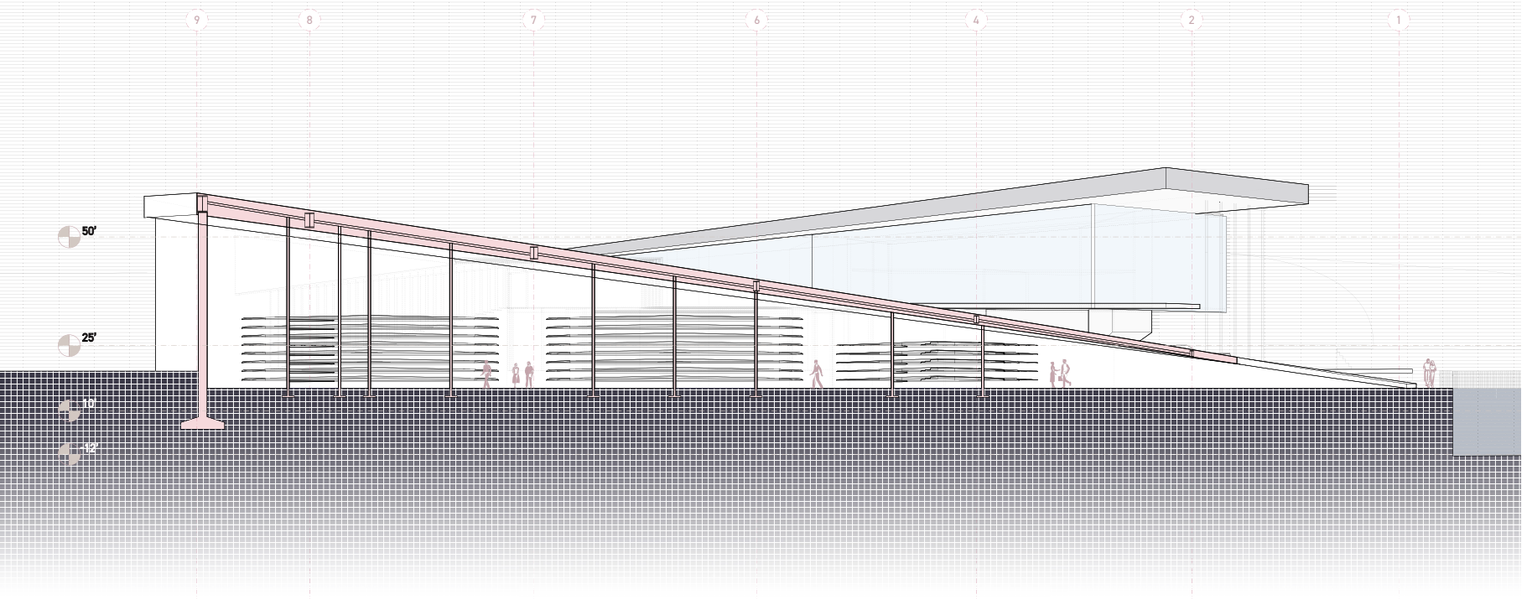
In partnership with Gisselle Astudillo.

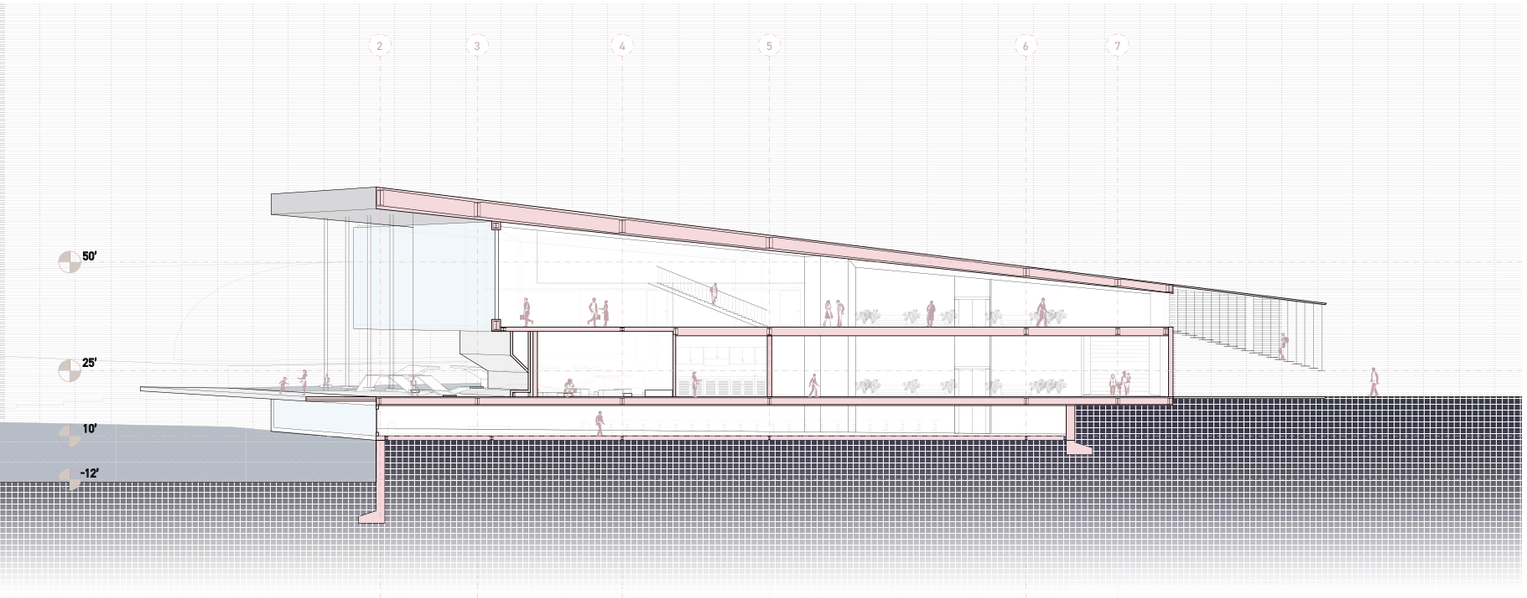
Site: Inwood, New York. Showing gratitude to the water as a performative and formal gesture. The two inverse volumes segregate and engage the occupant .

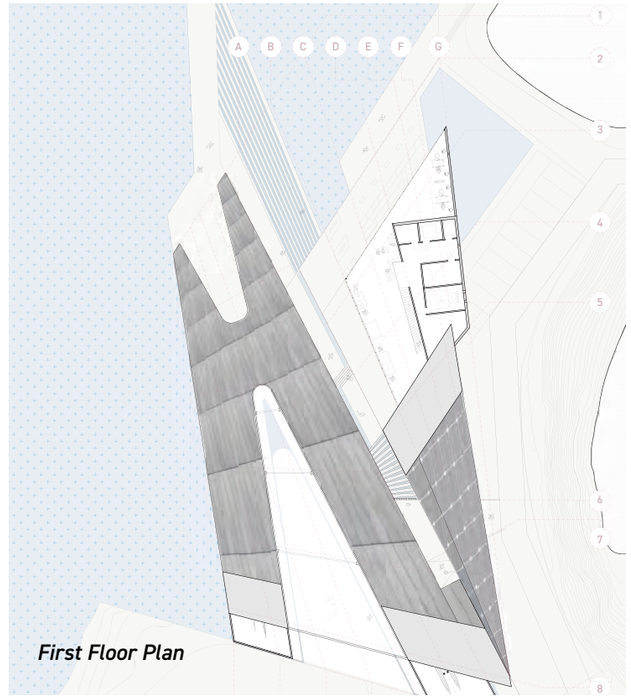


Ground Floor Plan

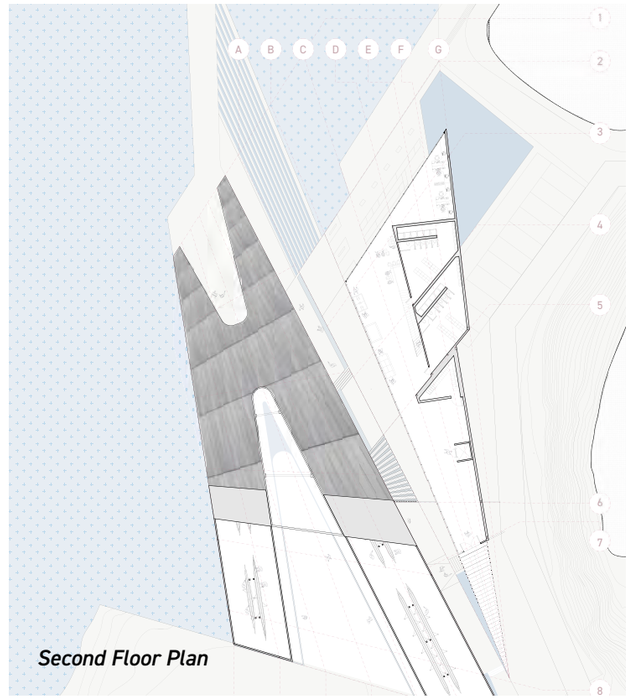
Artery Sections



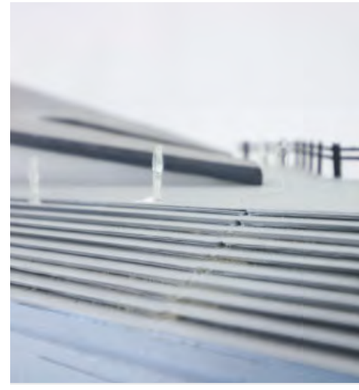


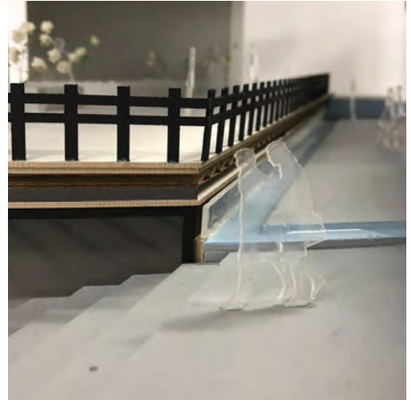


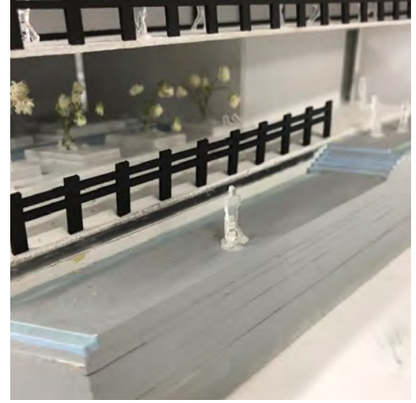
First Floor Plan

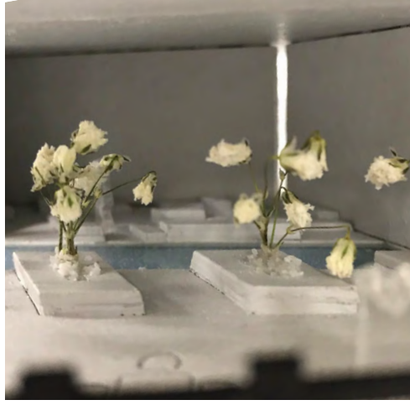


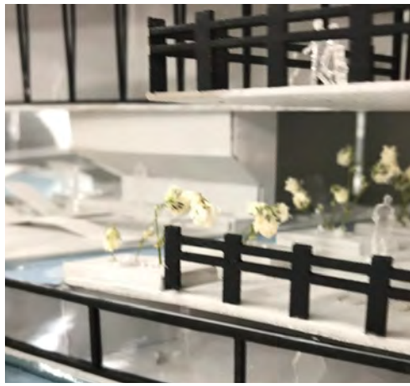
Second Floor Plan

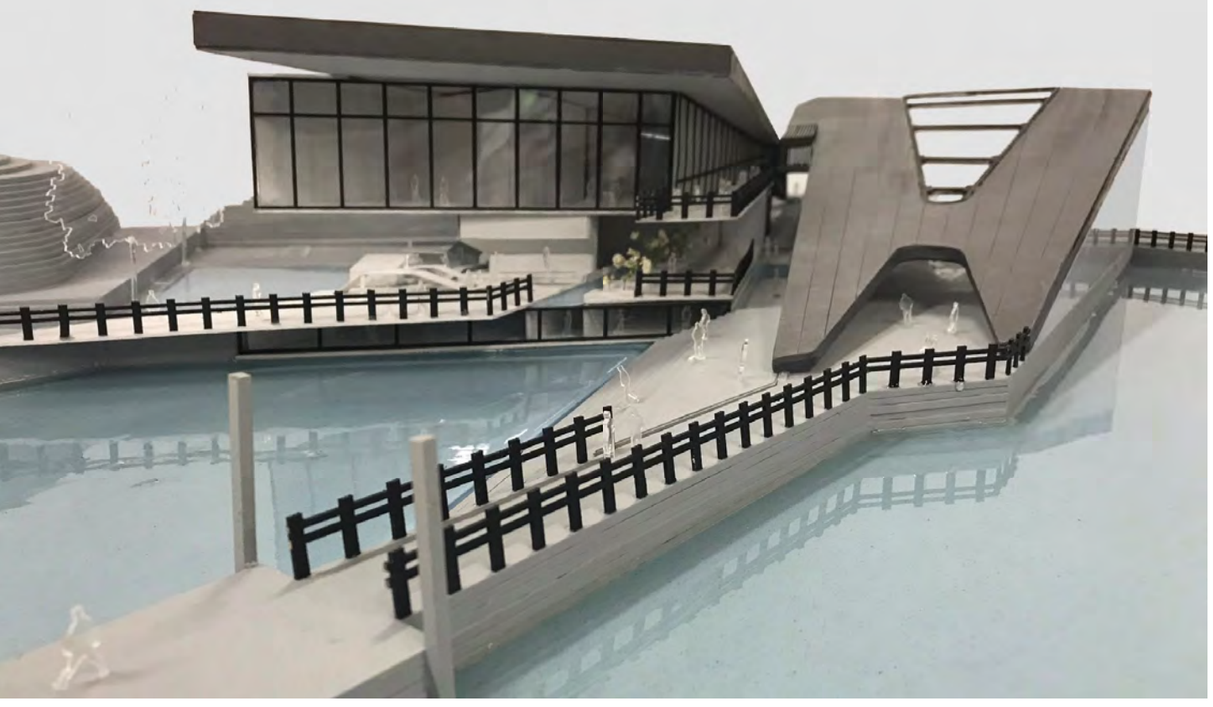


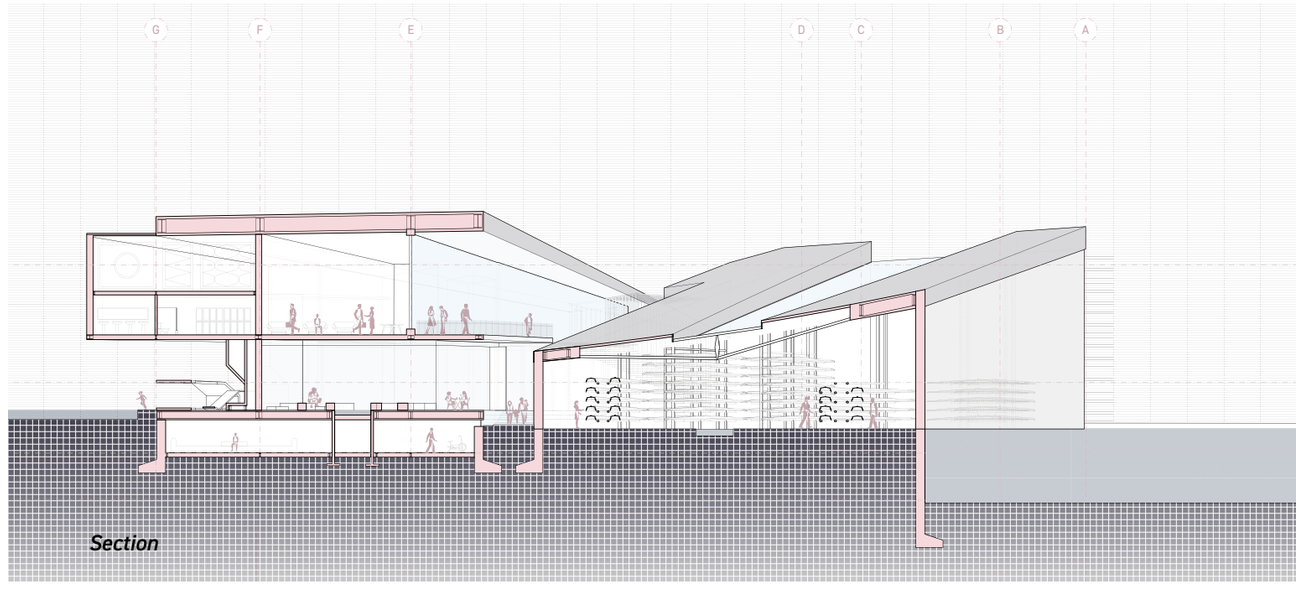






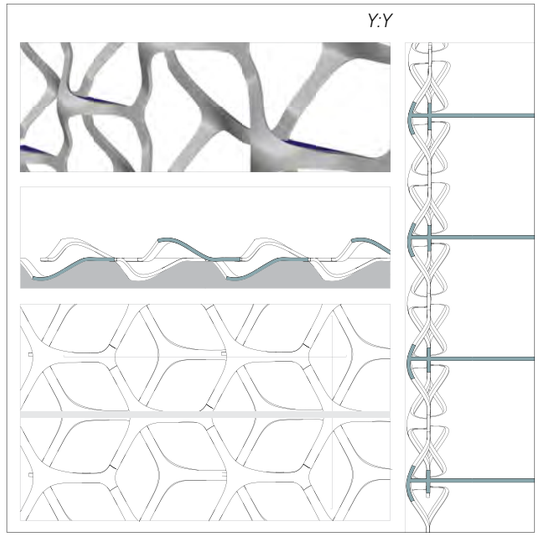


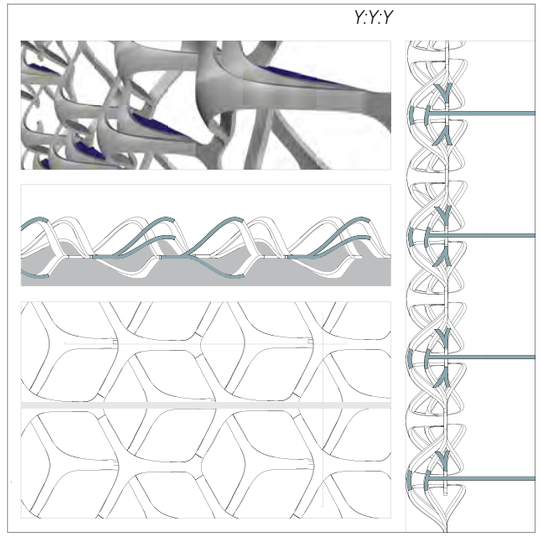


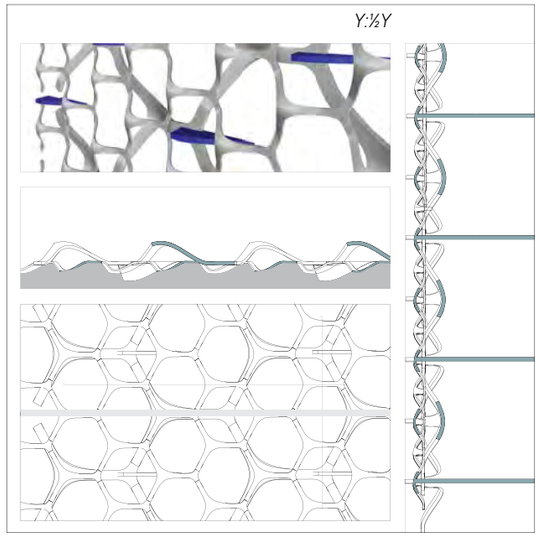

G
F
E
D
C
B
A
Section

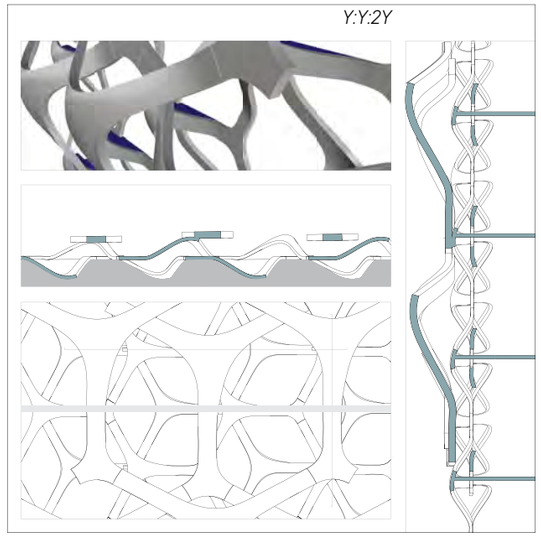
Bifurcation: Dormitory

DESIGN 301//Critic: Leonnard Leung









Spatial Analysis :: Analogue

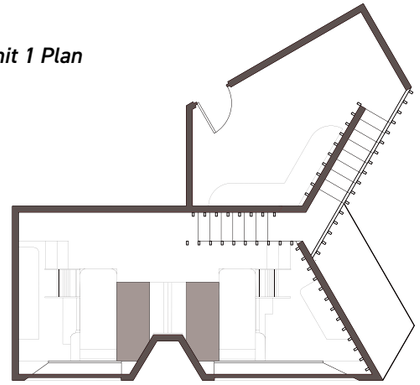
In partnership with Passachon Wiyaporn.

An undergraduate dormitory in Dumbo, reconciling with an existing building; with an aim to adaptively reuse, and provide cohabilitation to 150 students with integrated public spaces. Developing a dwelling strategy with the aim to provide zones of privacy while prioritizing the unification of spaces.

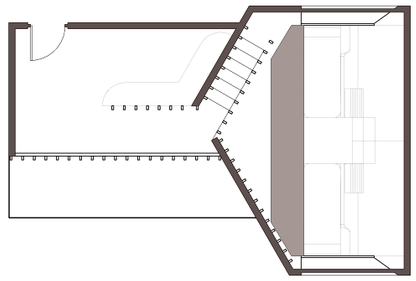
Studying the individual unit types.

Creating a series of zones such as the living room, bedroom and the terrace. that come together through the ceremonial space that acts as a binding agent and helps a create a sense of privacy by providing visual distance between spaces.

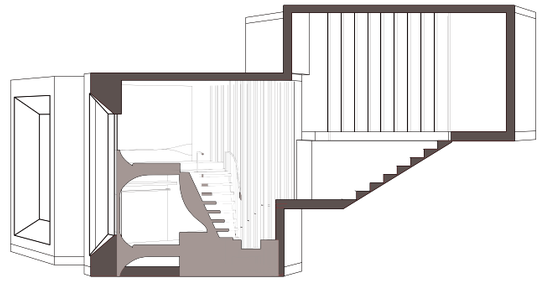
Unit 1 Plan



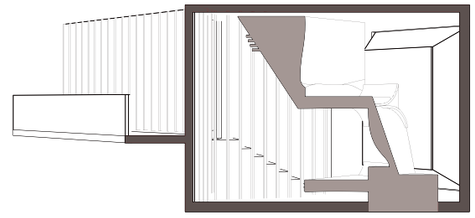
Unit 2 Plan



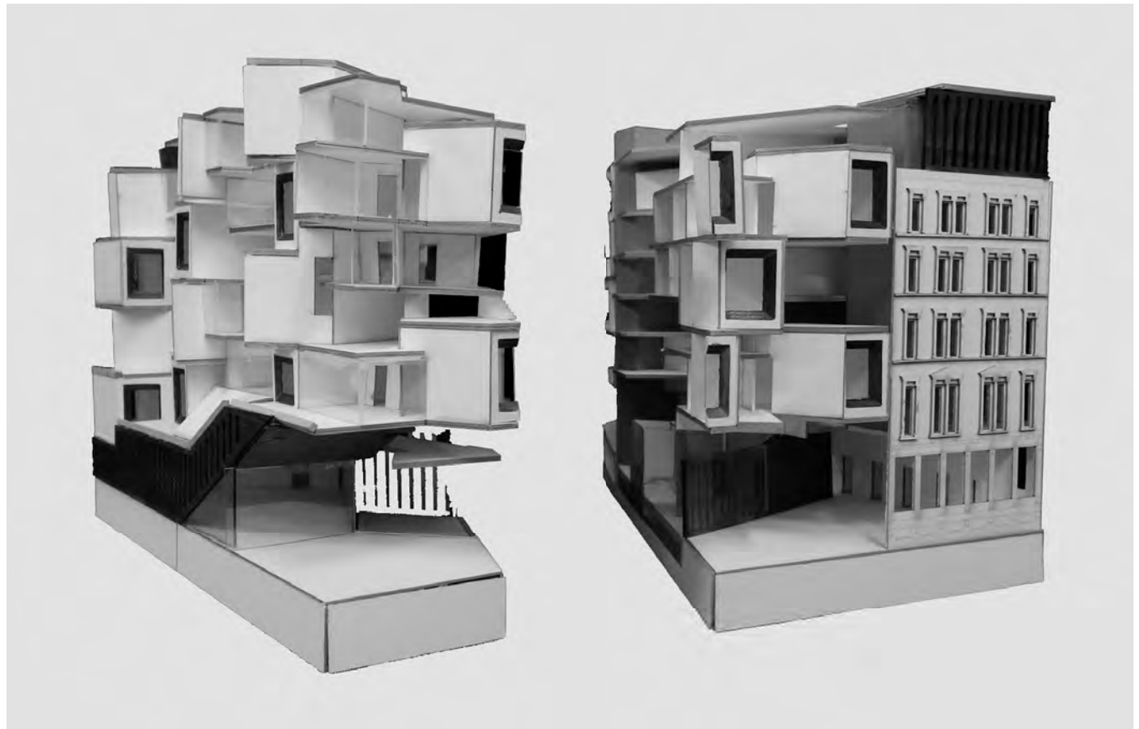
Unit 1 Section



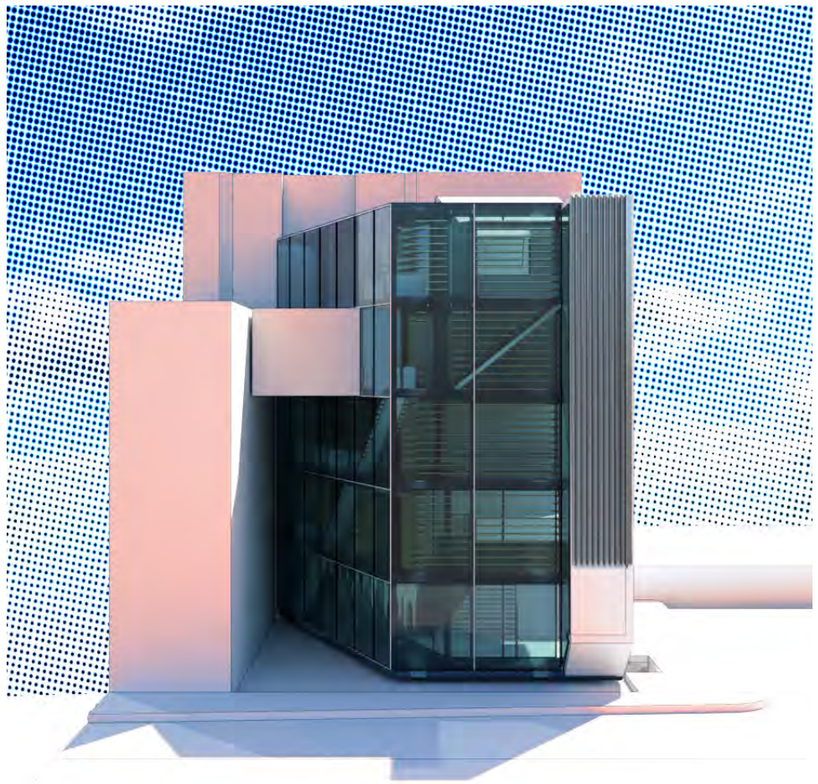
Unit 2 Section



The elevations identify the dormitory as a subleveled amalgamation of clusters rather than a generic form. The individulistic characteristics with similar visual properties of the unit act as a pattern which makes the building appear to float upwards along the direction of the slope of site.



Fall 2018// Design 301



Polar Amalgamate : Library

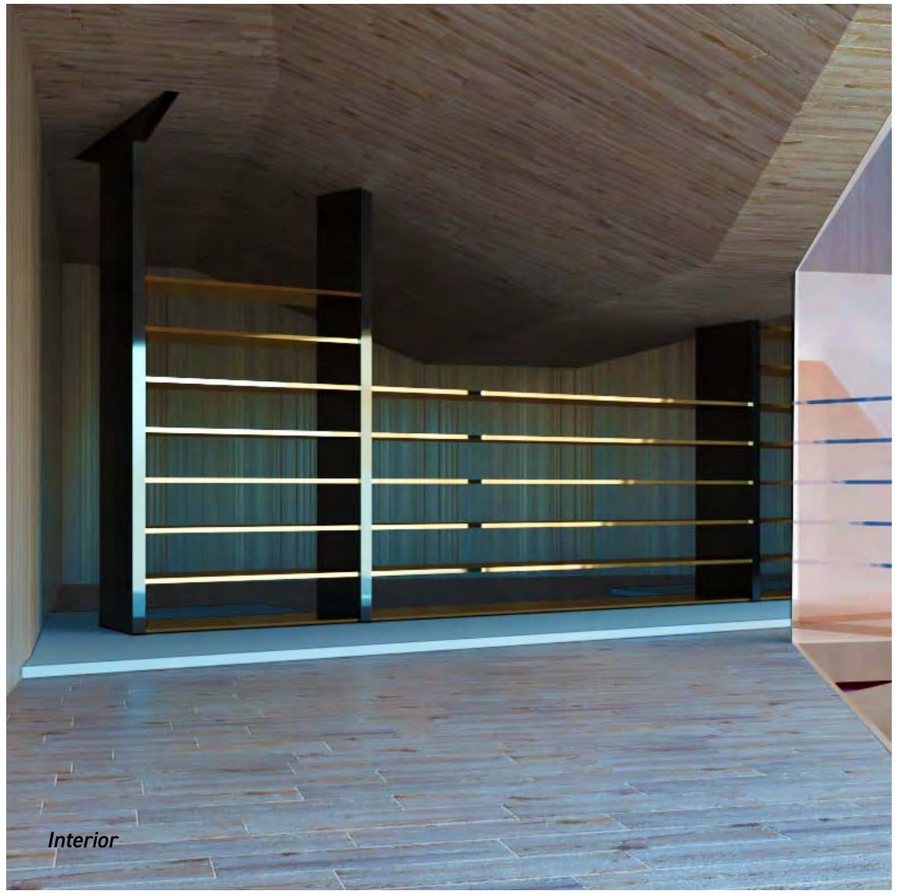
Critic: Anne Nixon

Concept Models

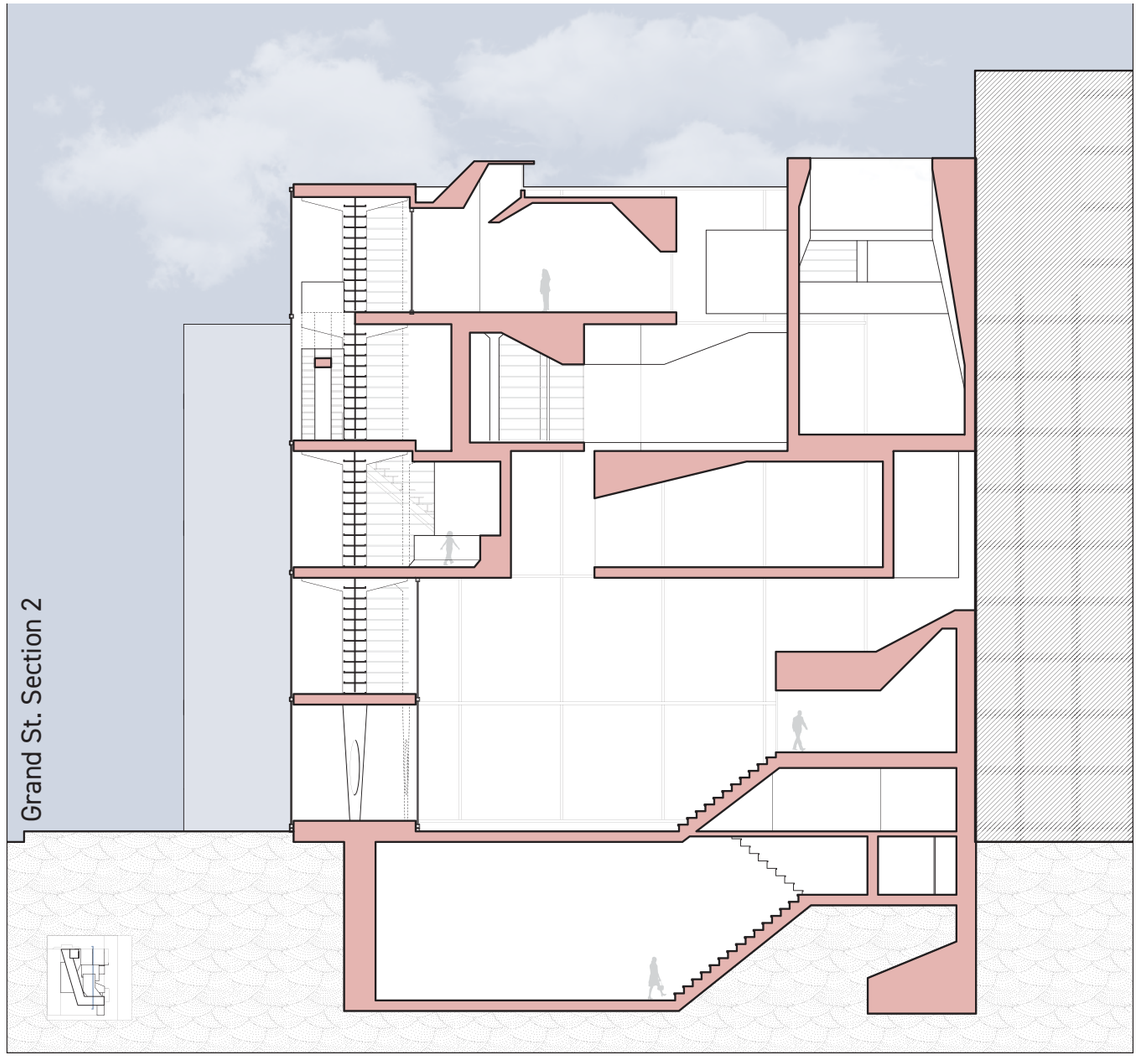
The corner of Grand and Chrystie Street in Chinatown, New York City is a dynamic site with differences at every corner that seem to blend to one another and work cohesively as a unit. In response, the stacks and the reading pods are the two pieces of the puzzle that make up the library. The stacks working linearly produce a strong statement and ground the project into the site while the readings pods are light and airy.

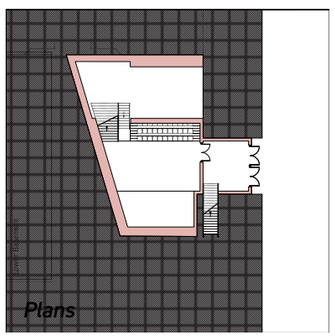
Material/ Conceptual Studies that explore the organization of the two parts to a library (the social/ reading spaces and the stacks)

wood- stacks
wax bubbles - social pods

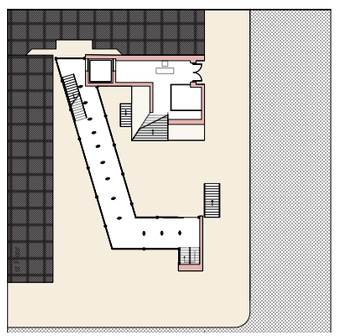


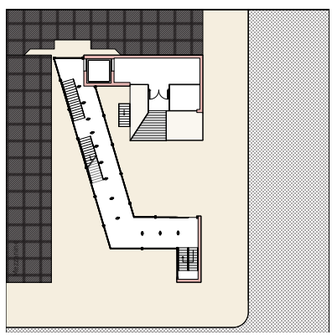
Interior

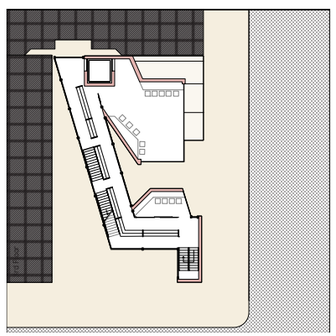


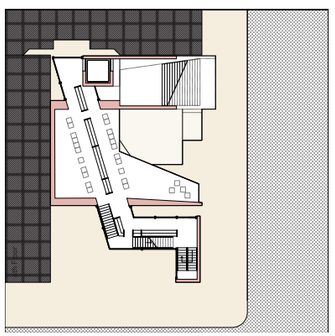


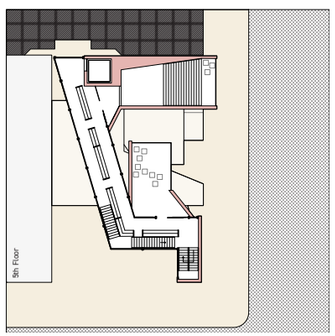
Plans

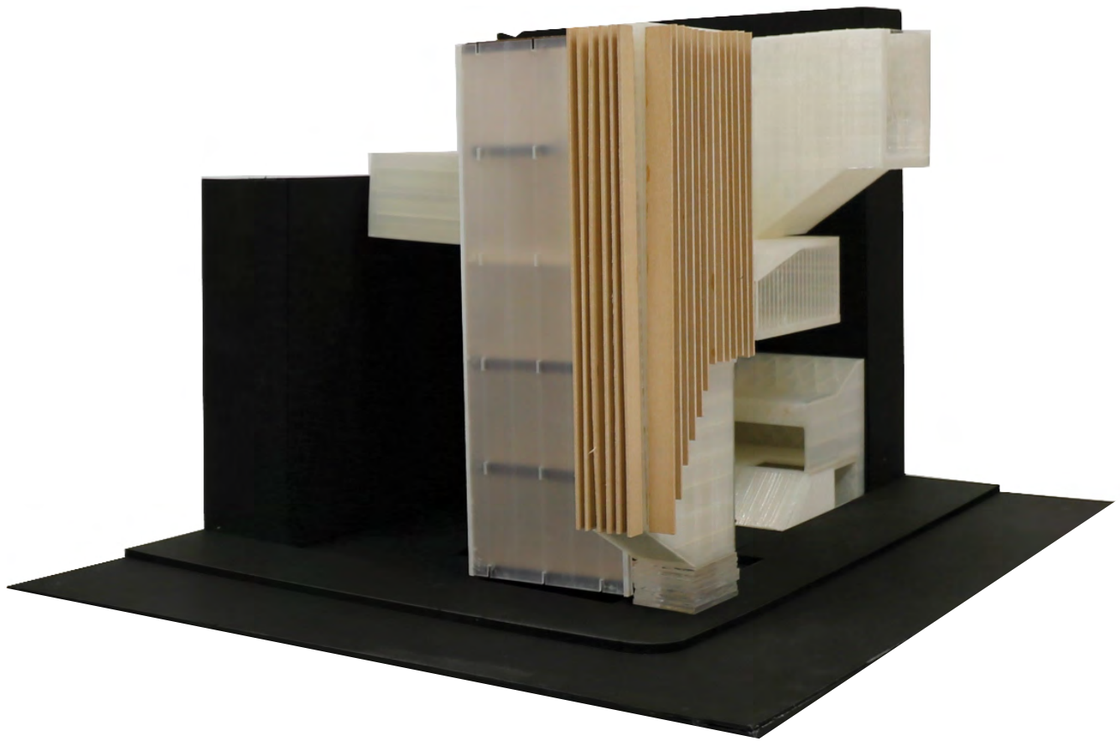








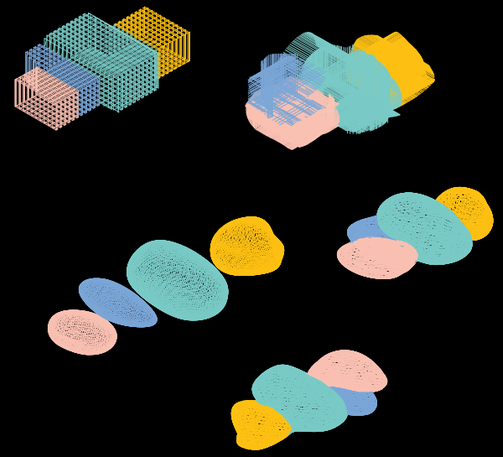




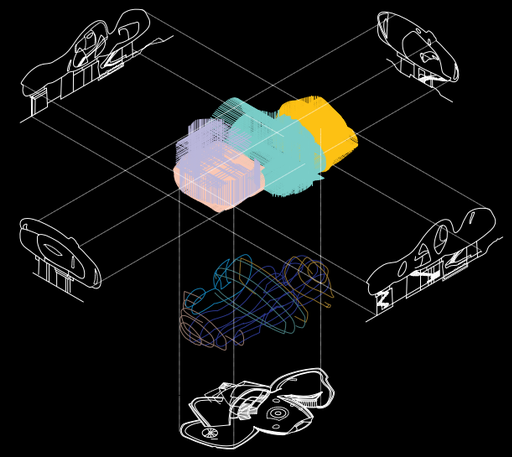
Endless Drawing

Critic: Danielle Willems

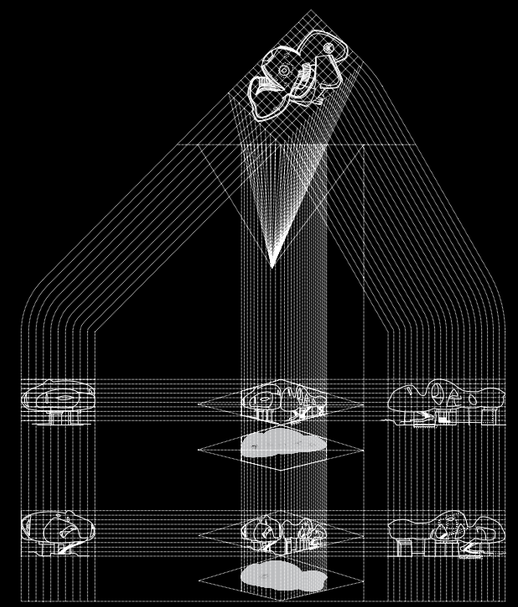
Spring 2017// Representation II



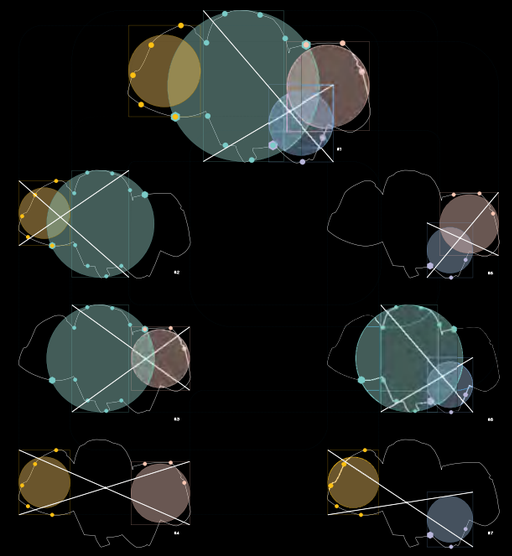
T-spline molding



Construction



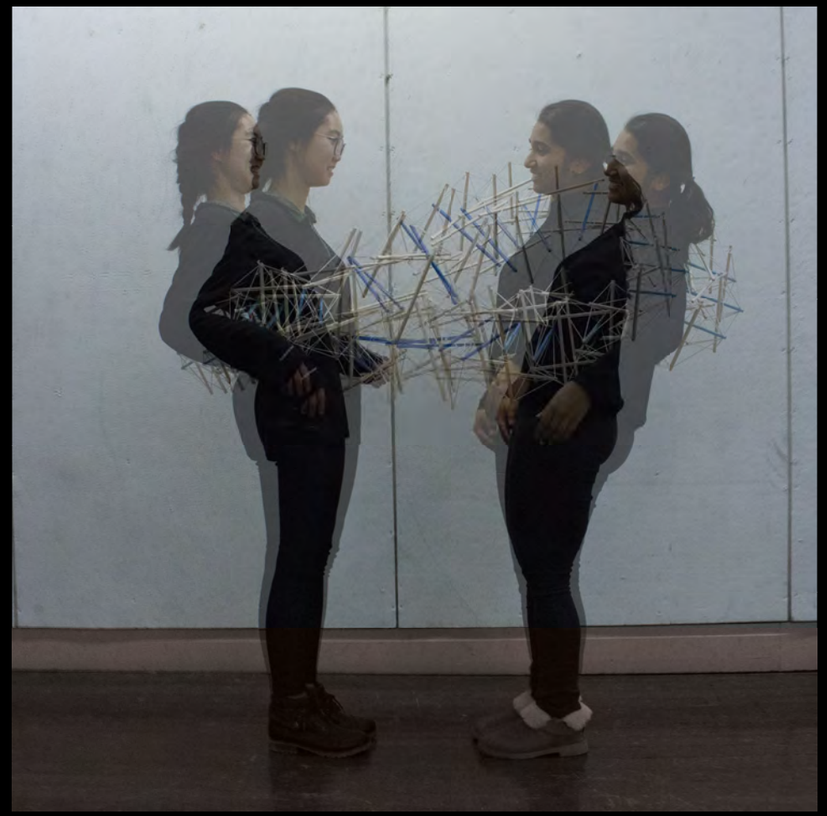
Perspective



Parameters

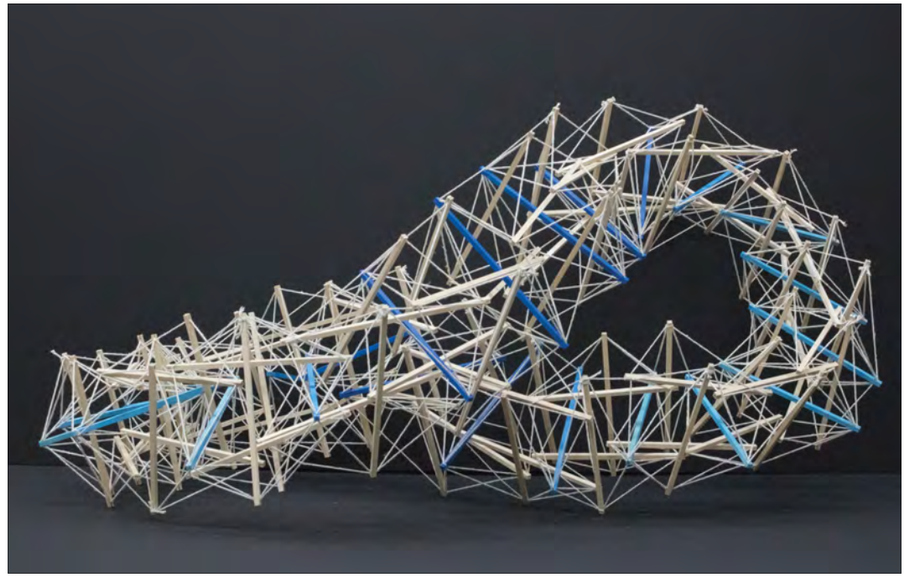
In partnership with Sho Sho.

Analysis of Frederick Kiesler's Endless House through drawing. Constructed a drawing machine using vinyl players that draw with regions of the house through analysis.

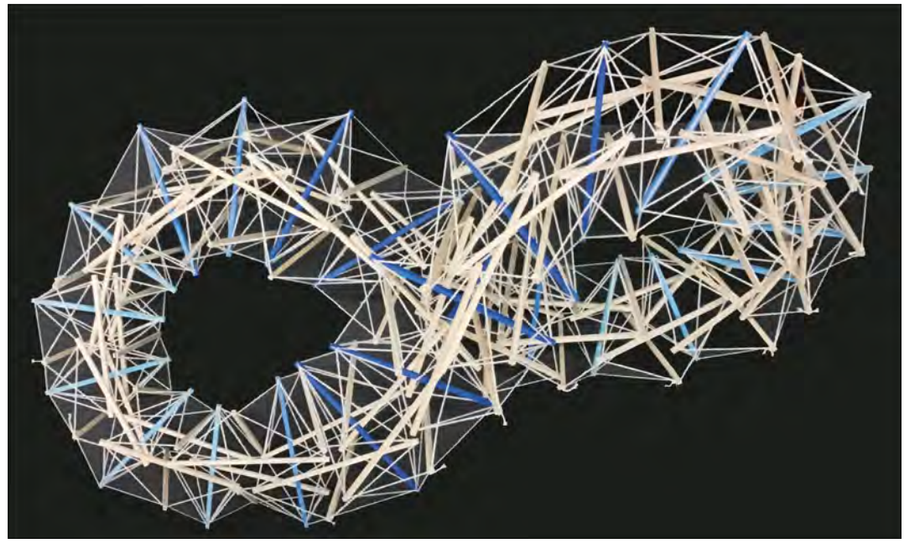


Tensegrity

Critic: Kyle Hovenkotter



Front Elevation



Top Elevation

In partnership with Passachon Wiyaporn.

The analysis of the human body led to the design of a structural system that would hold the weight of both our bodies, leaning backwards, using the concept of tensegrity
An infinte loop that supports one's shoulder as a brace and against ones's lower back, to balance out the forces .

LOP

ITA

DAS