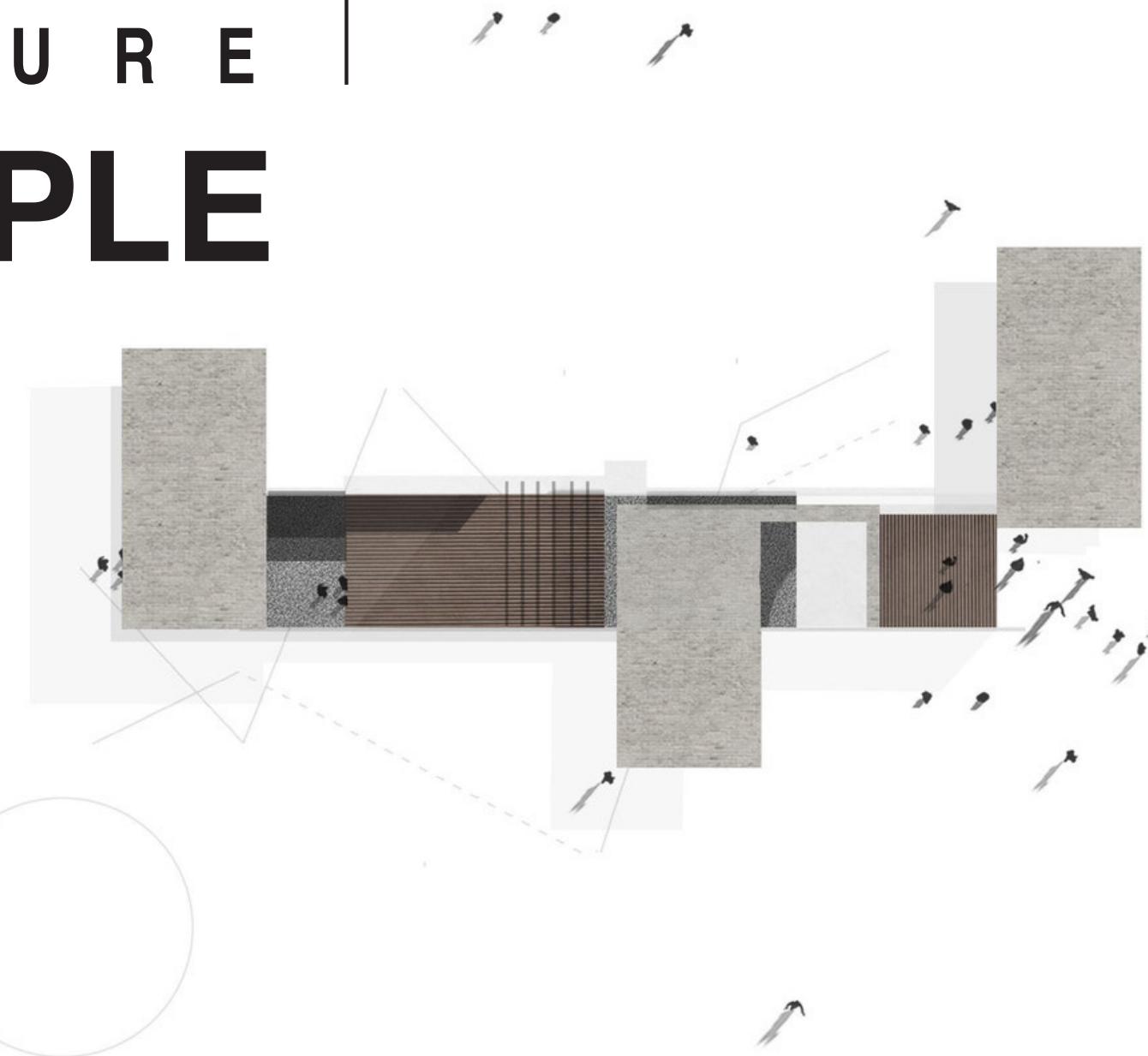


A R C H I T E C T U R E

WORK SAMPLE

2019 - 2024

Fang (Frank) Sun
B.S. in Architecture (UVA) 2019-23
Master of Architecture (UPenn) 2024-27 (Expected)



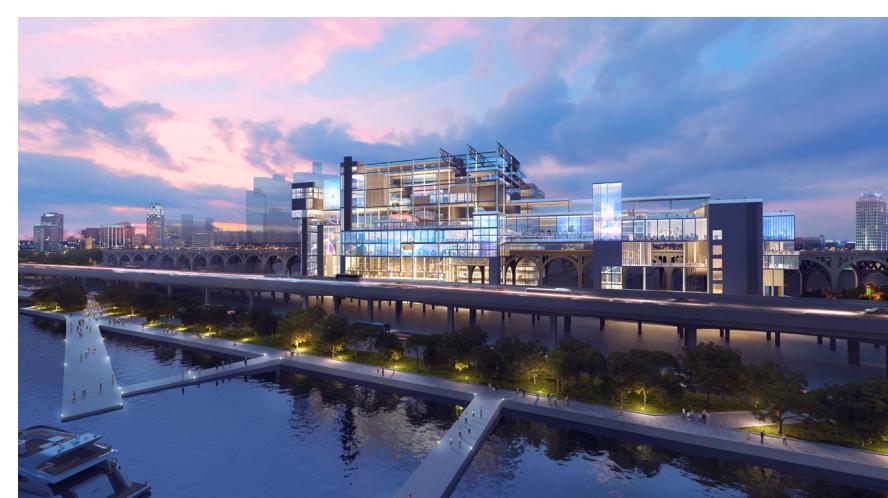
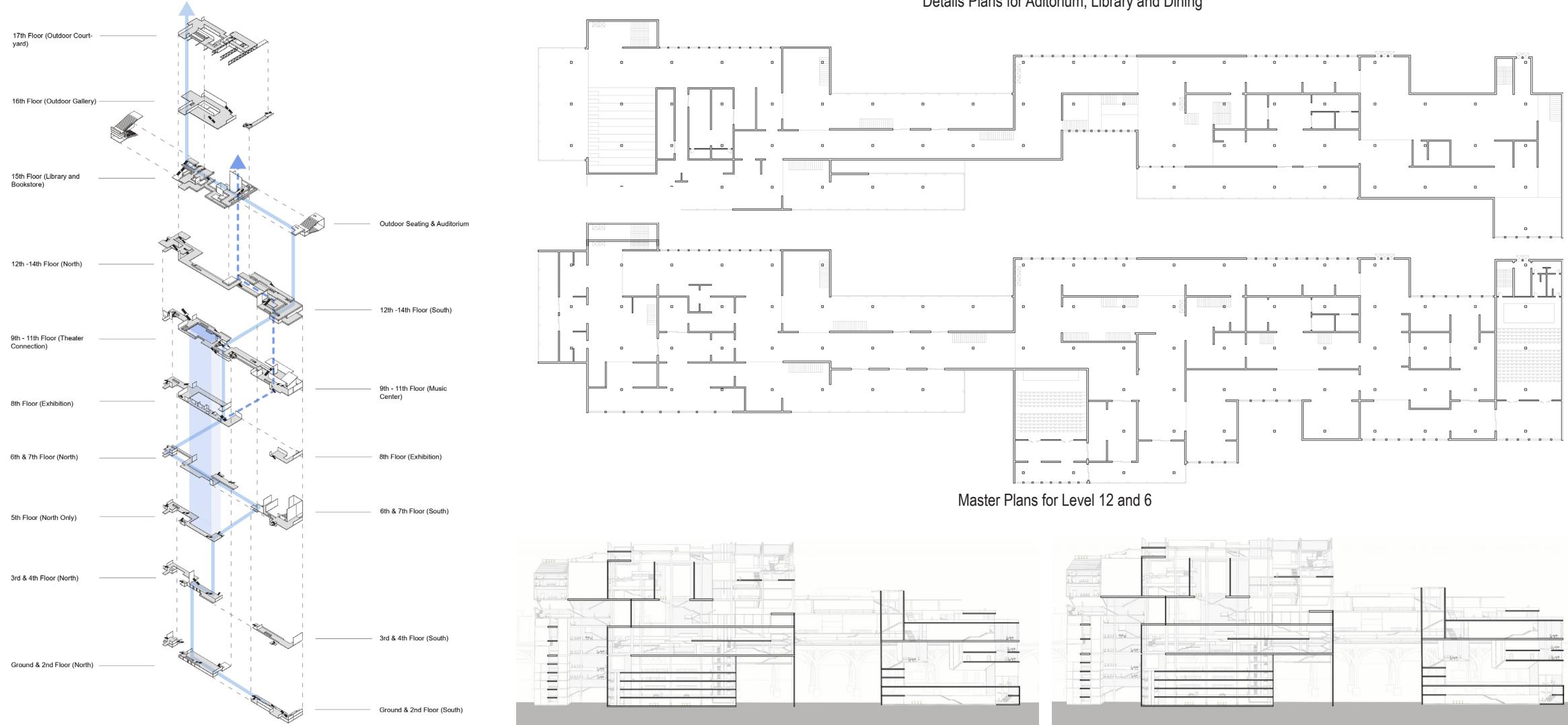
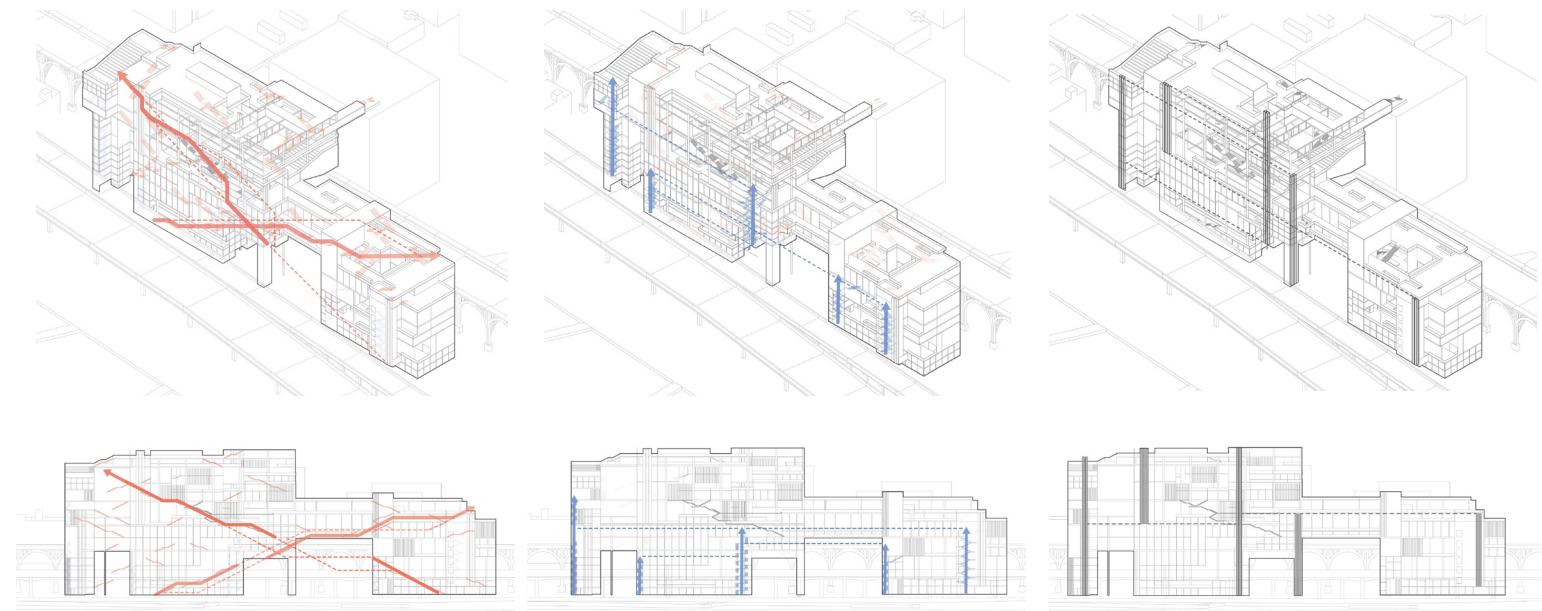
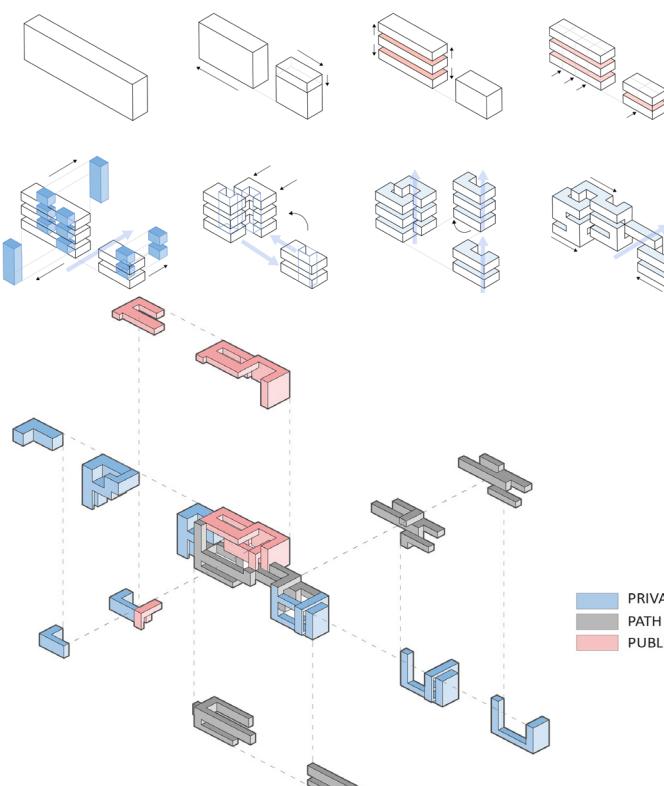
01

Welcome Center for the Columbia University

Visioning Climate Resilience and Sustainability in Densed Urban

Individual Work, Fall 2021

Instructor: Peter Waldman



Long Sections

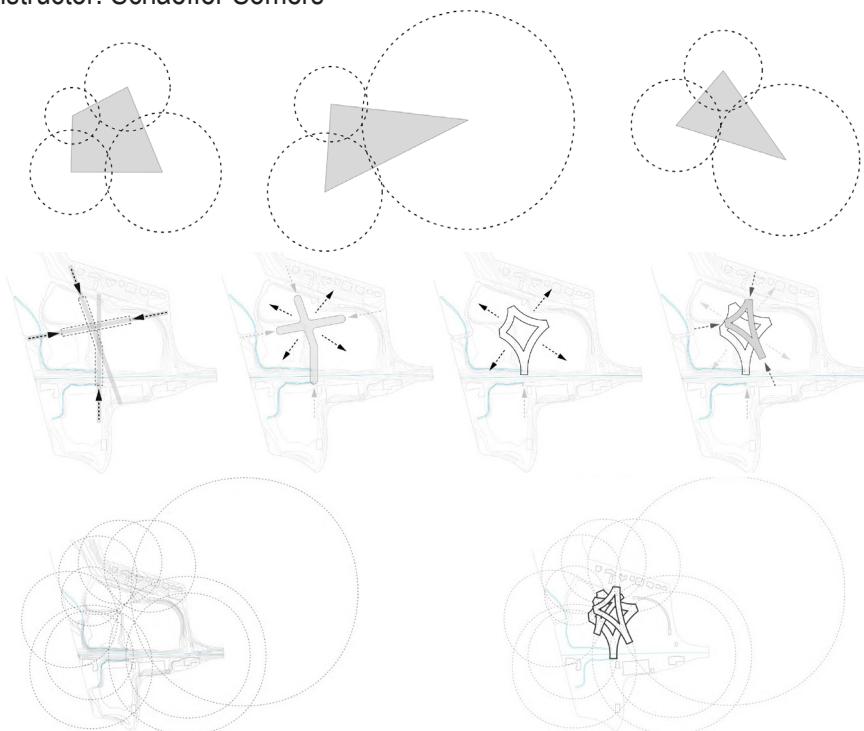
02

"Reborn": A Mixed-Use Building for the UVa Community

Experimenting Architectural Intervention in Spatial Separation

Individual Work, Spring 2022

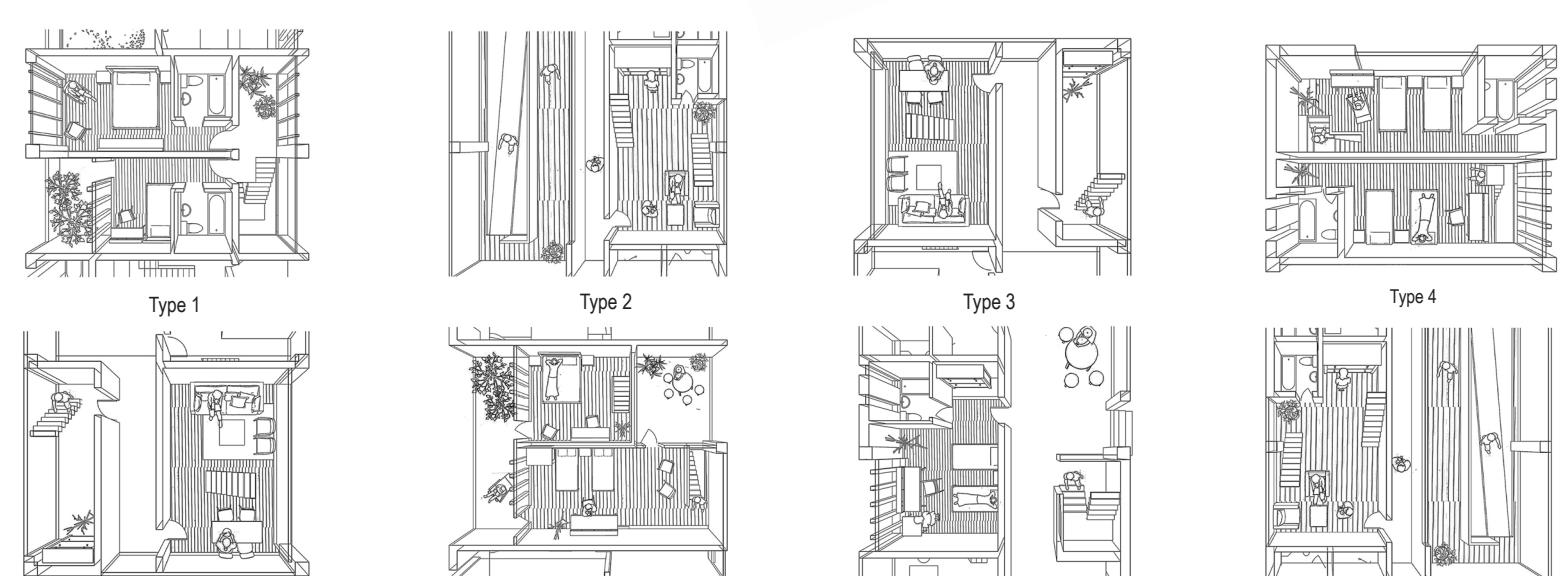
Instructor: Schaeffer Somers



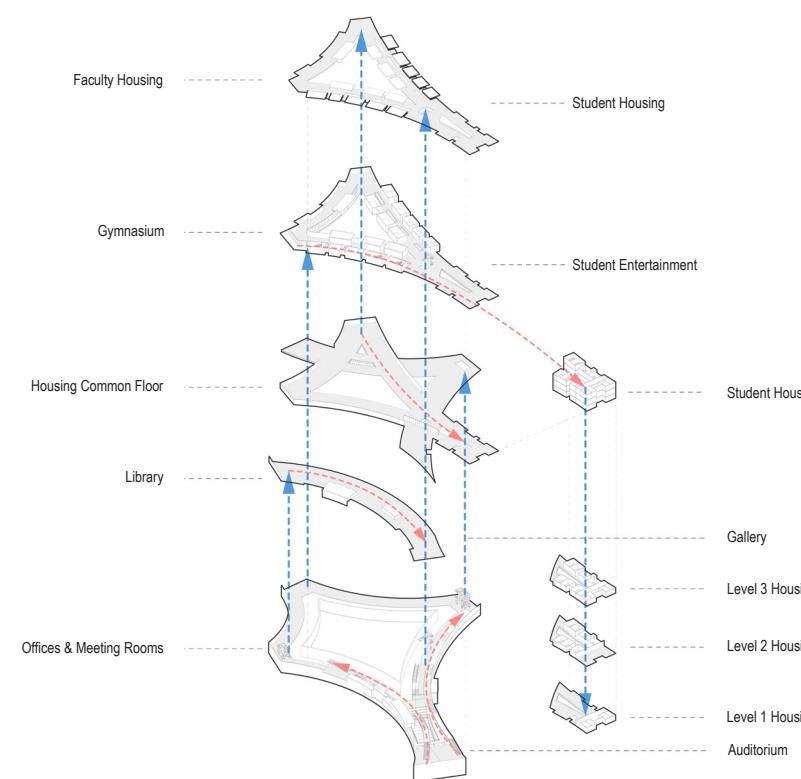
Form Analysis Diagrams



Master Plans



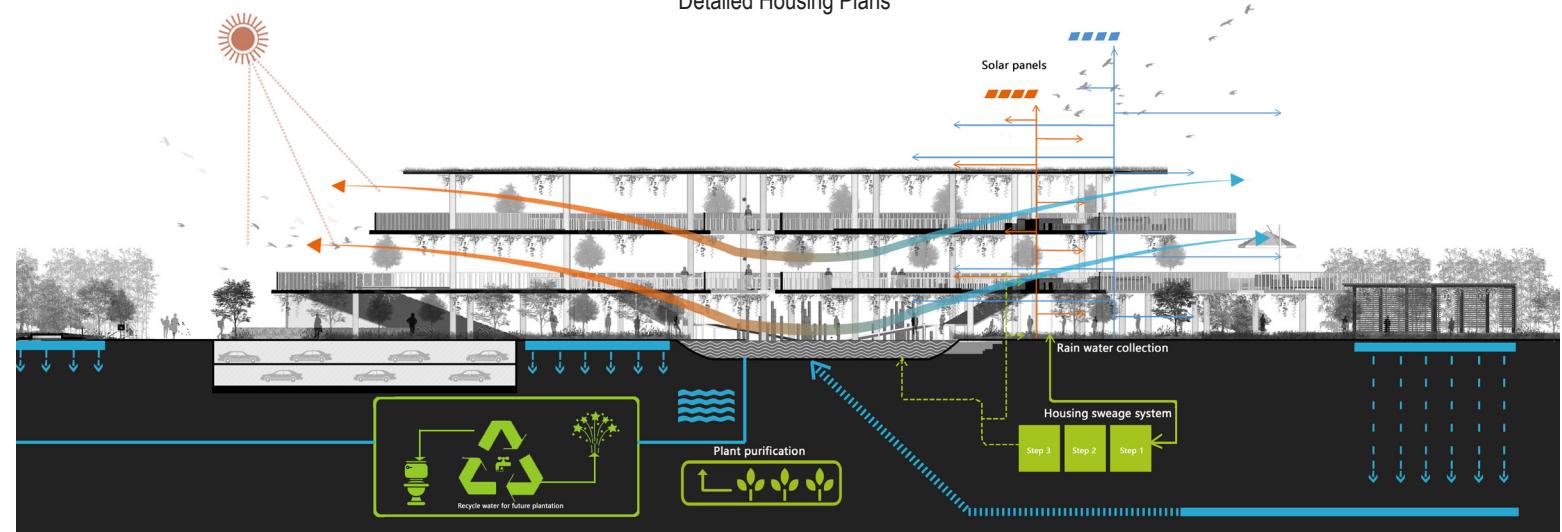
Detailed Housing Plans



Exploded Axonometric Diagram



Long Section with Designed Water Storage and Reuse System



Elevation with Ecology Analysis



Renders

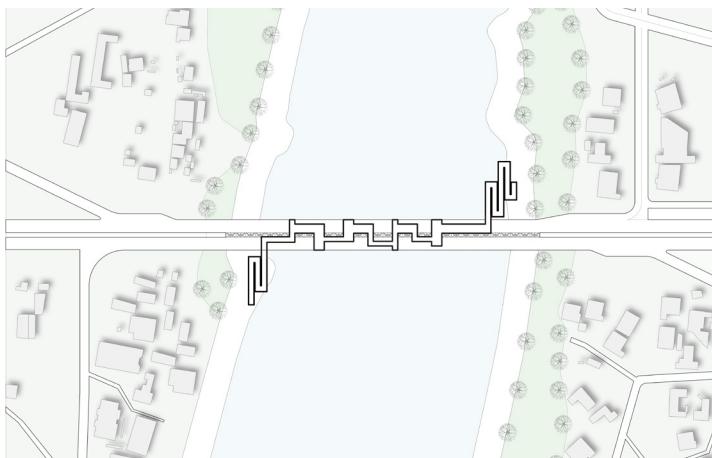
03

A Renovated Bridge in an Old Water Town

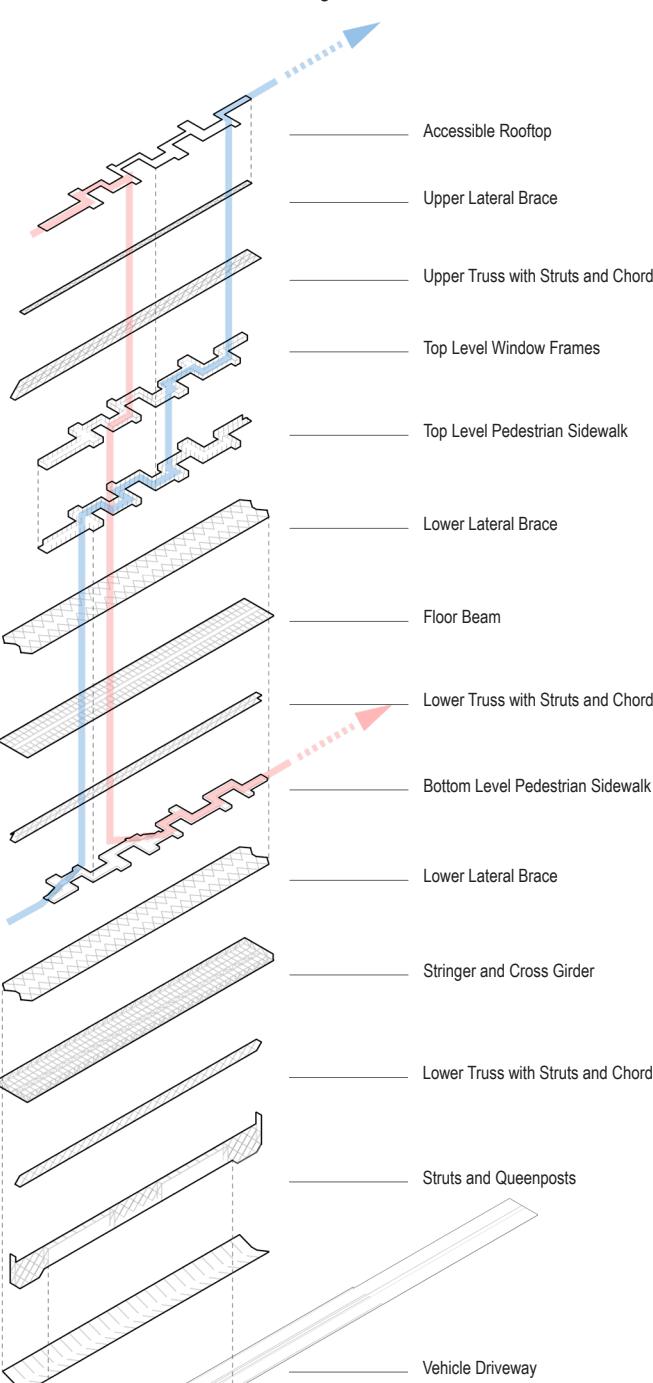
Bridging Humans and Vehicles

Individual Work, Fall 2022

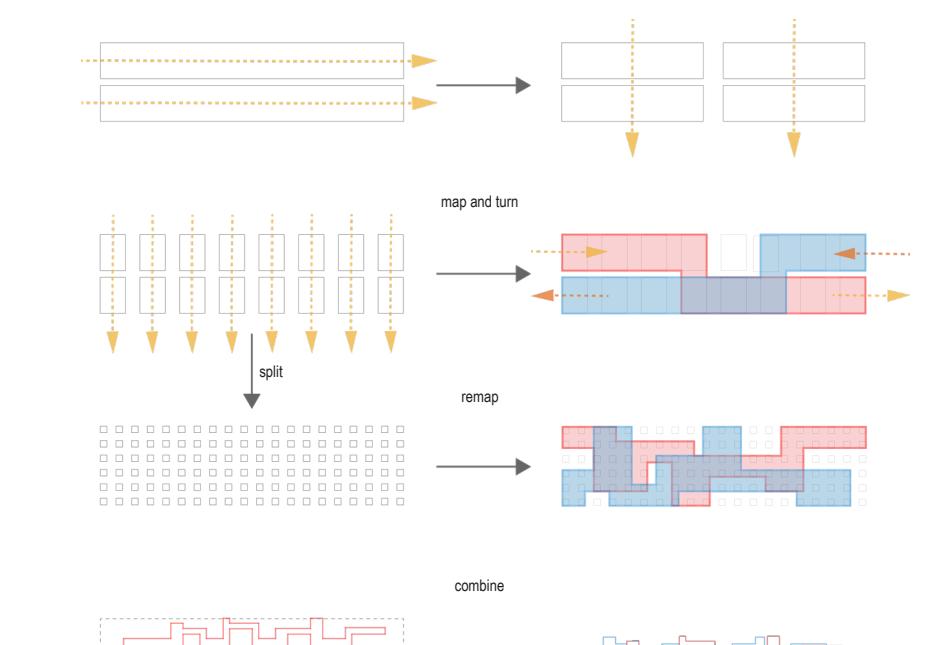
Instructor: Lifeng Lin



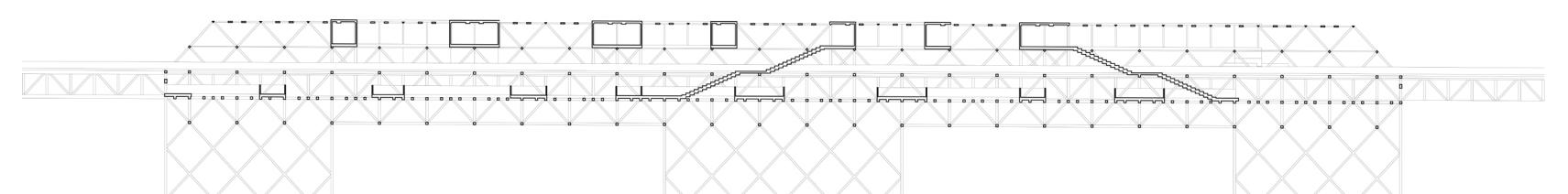
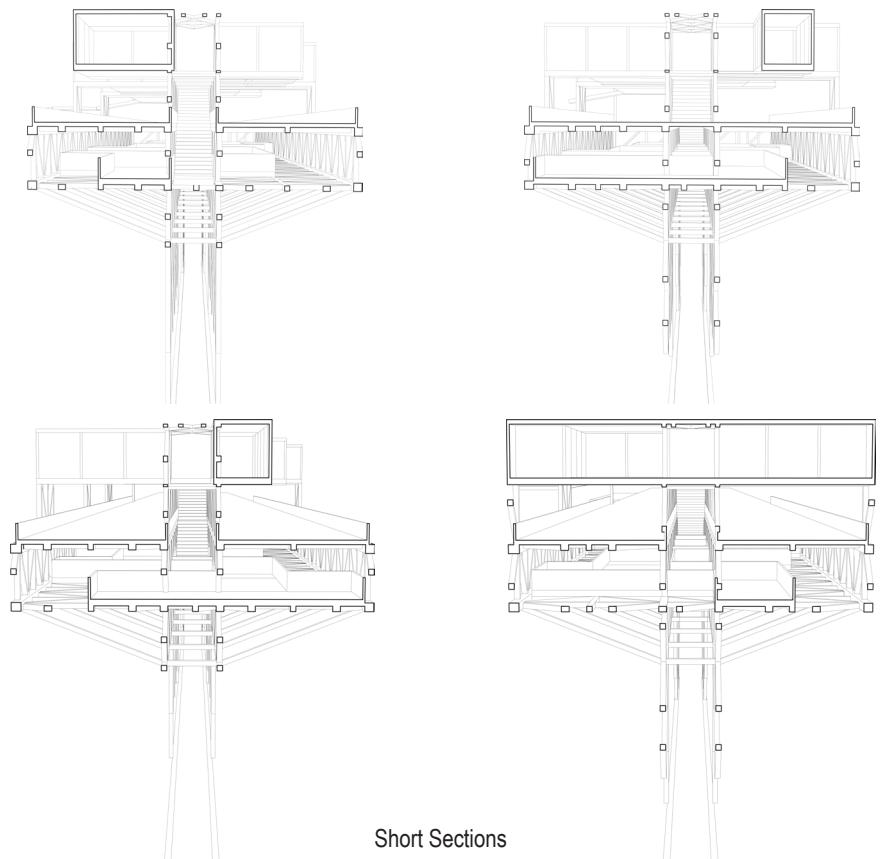
Site Diagram



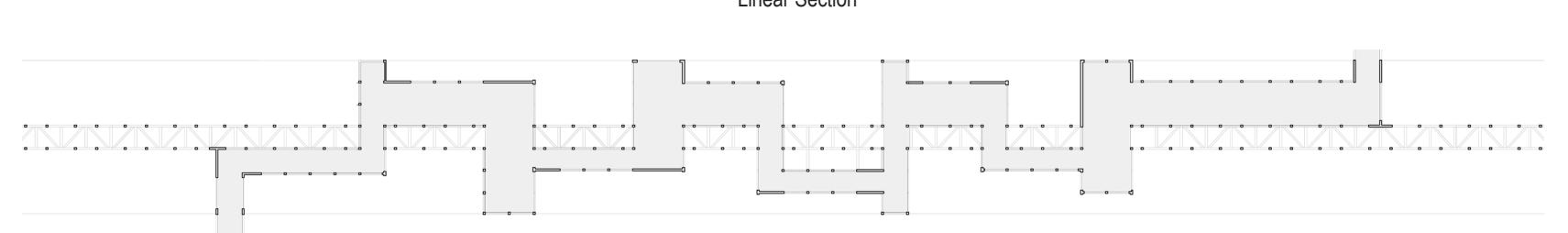
Exploded Axonometric Diagram



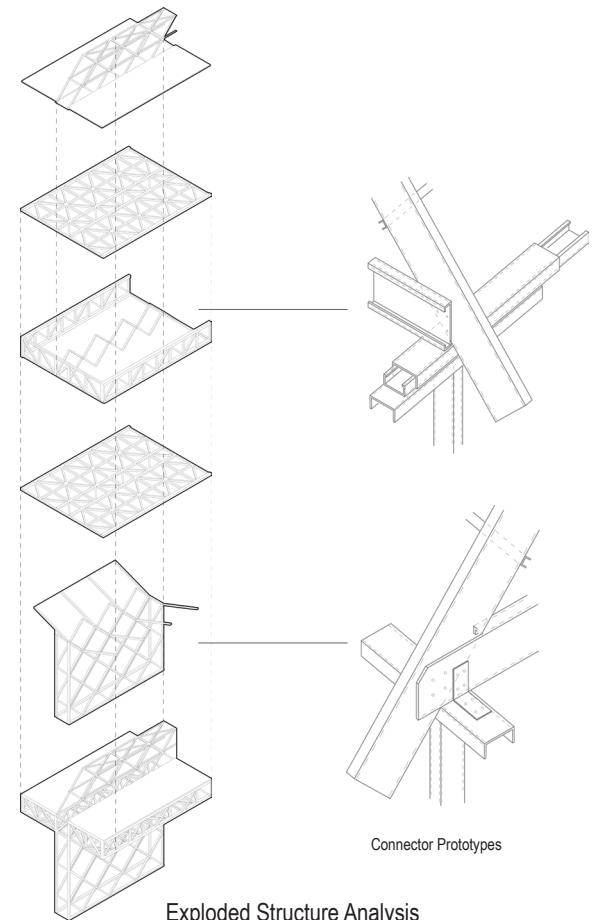
Form Analysis Diagrams



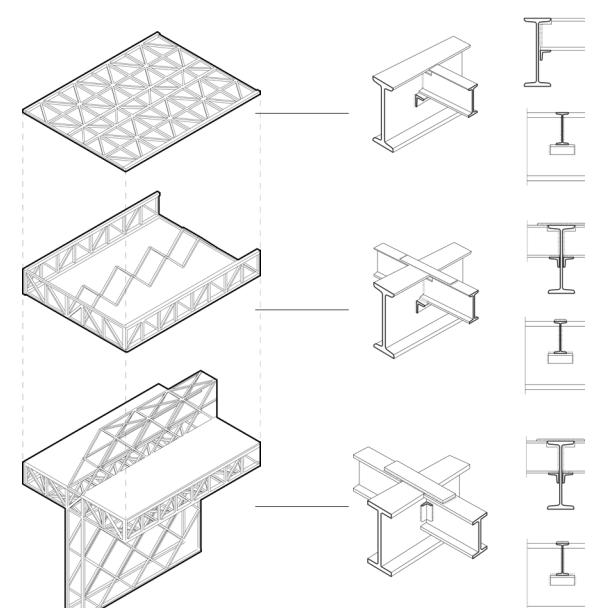
Linear Section



Upper Sidewalk Level Master Plan



Exploded Structure Analysis



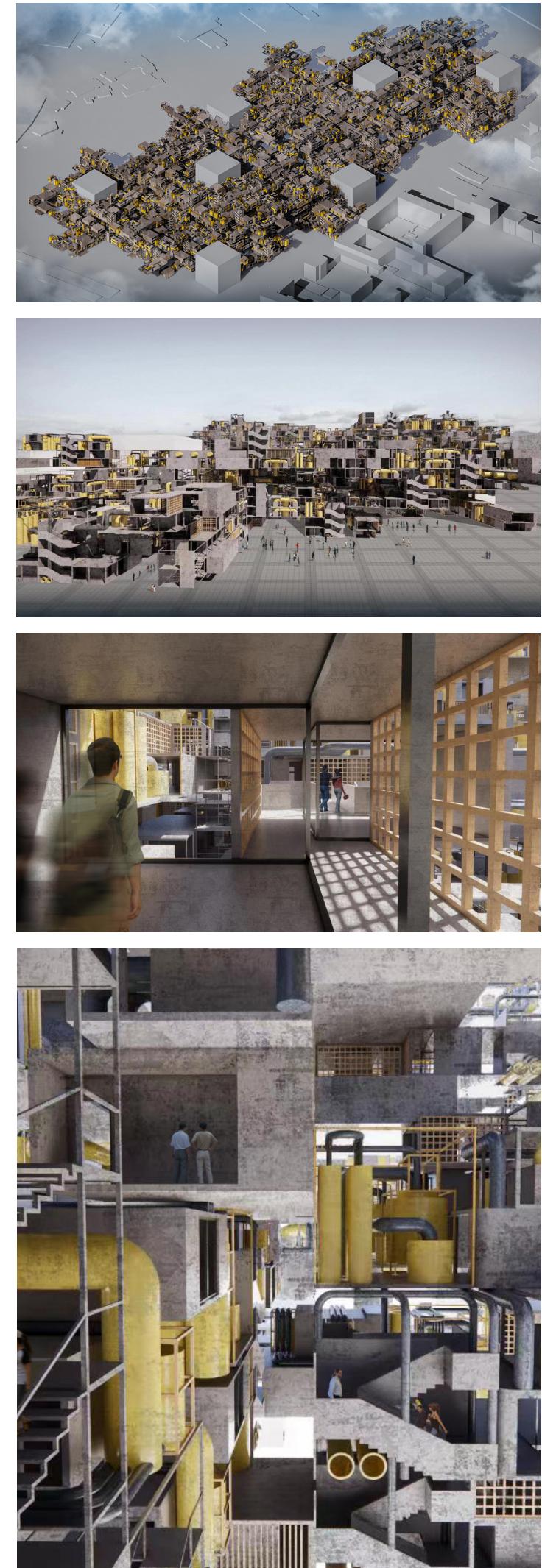
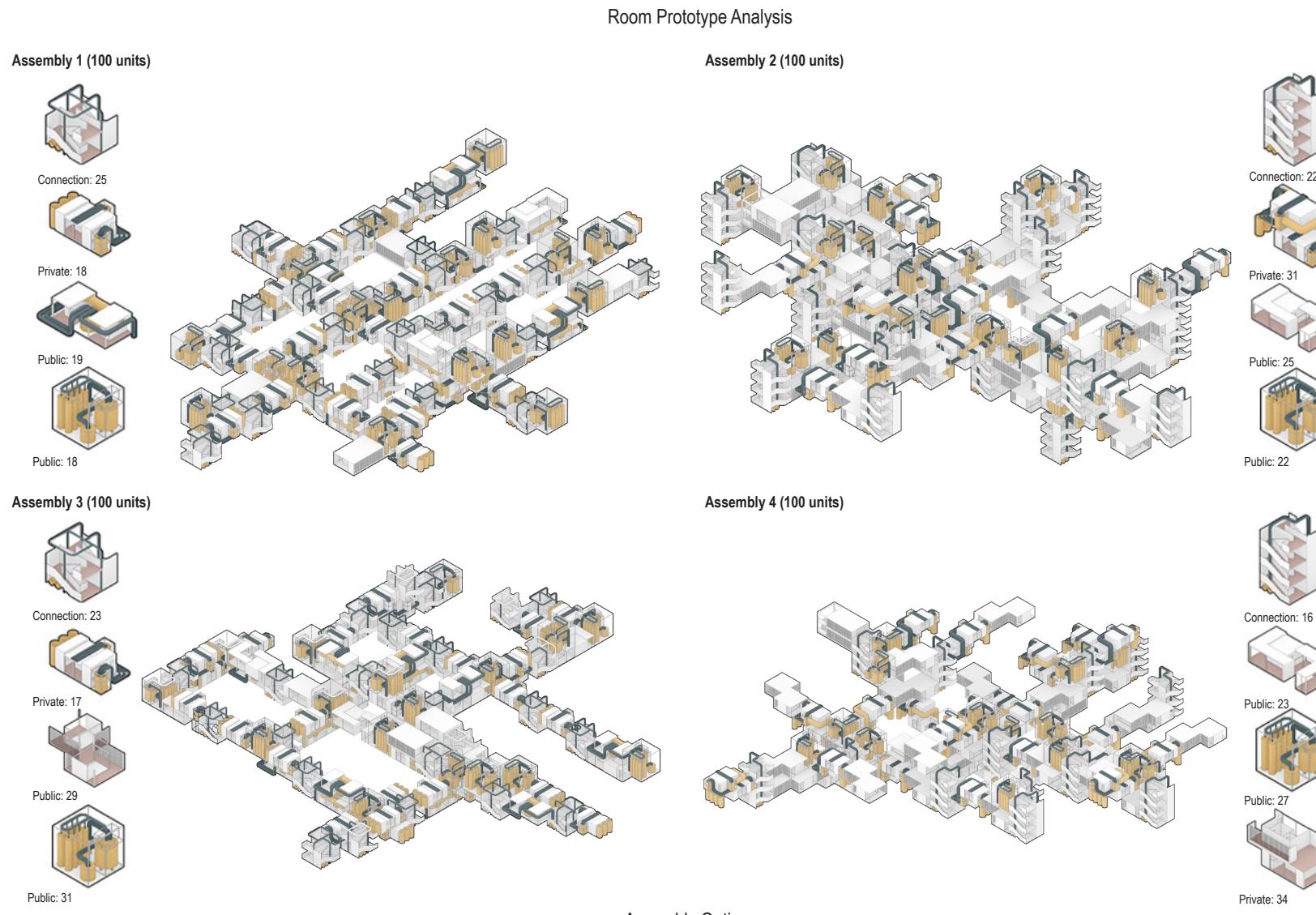
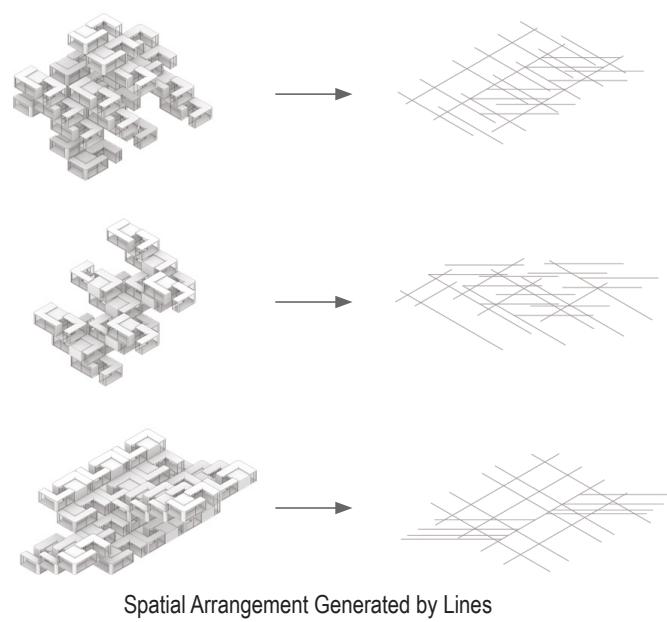
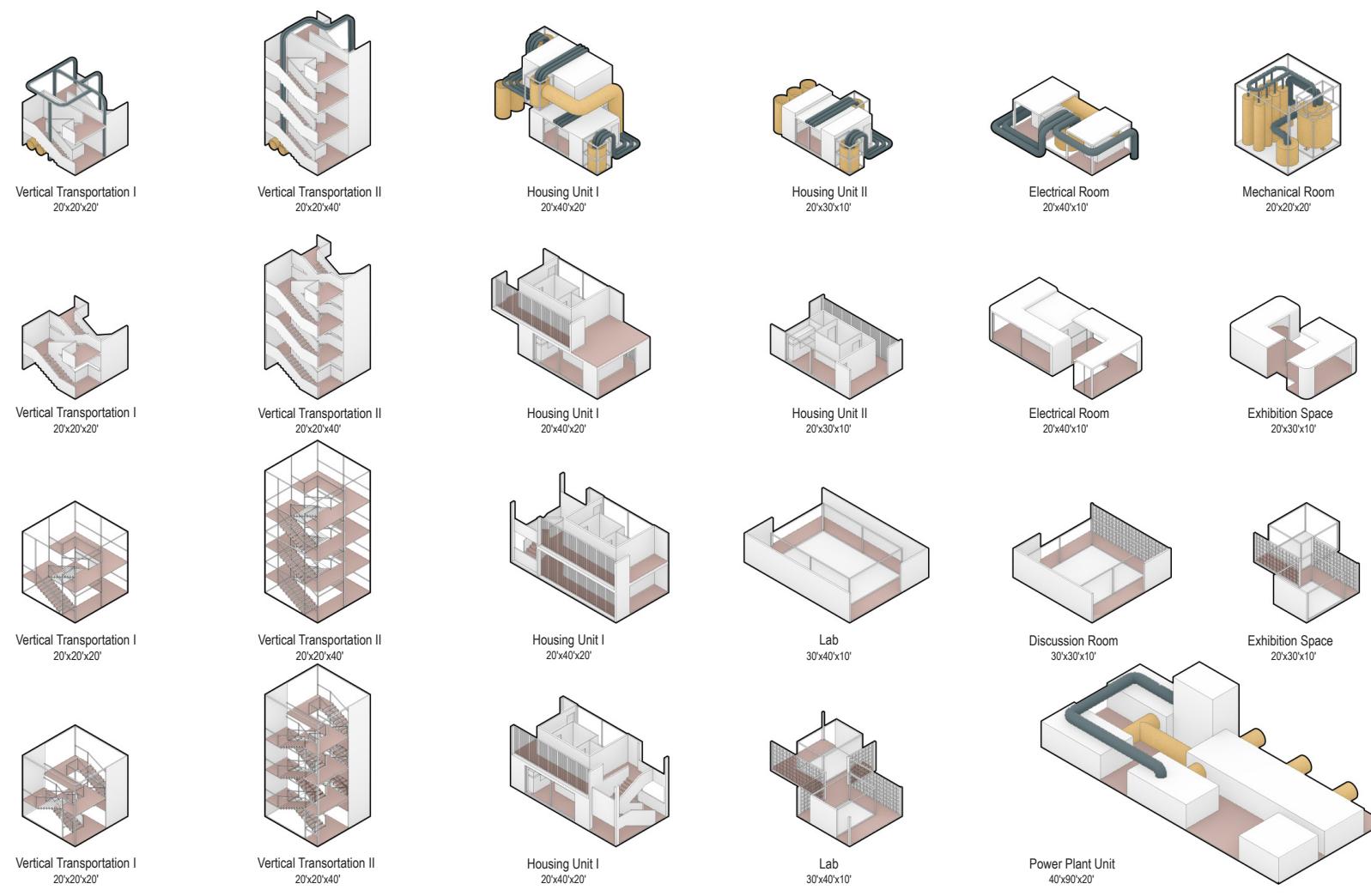
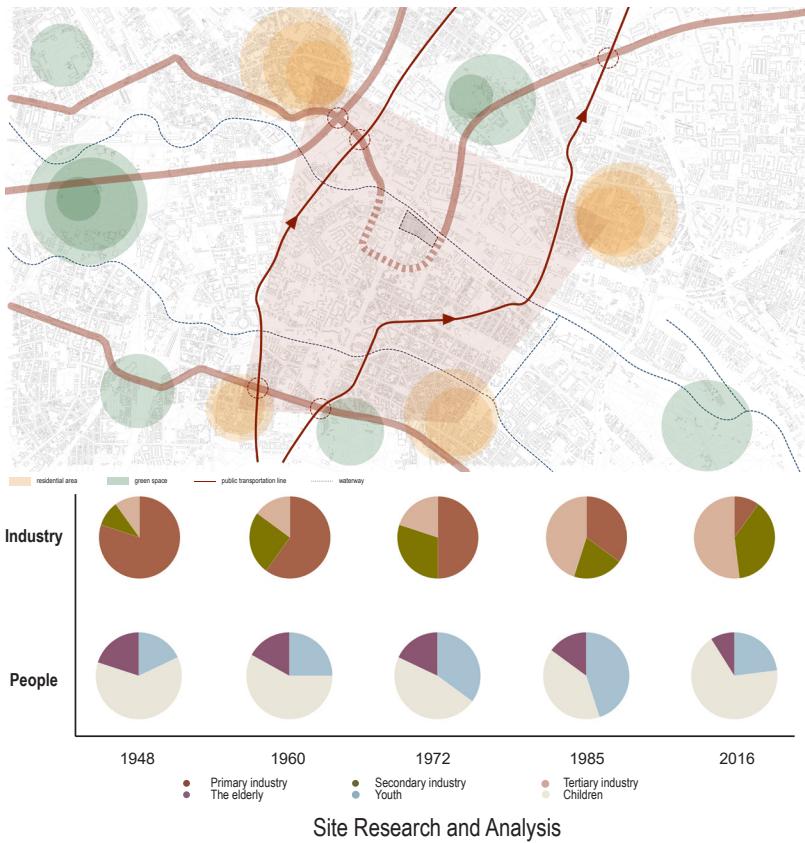
Renders

An Aggregable Collective for Industrial Settlement

Exploring Architectural Growth with Discrete Design

Individual Work, Fall 2022

Instructor: Meizi Li



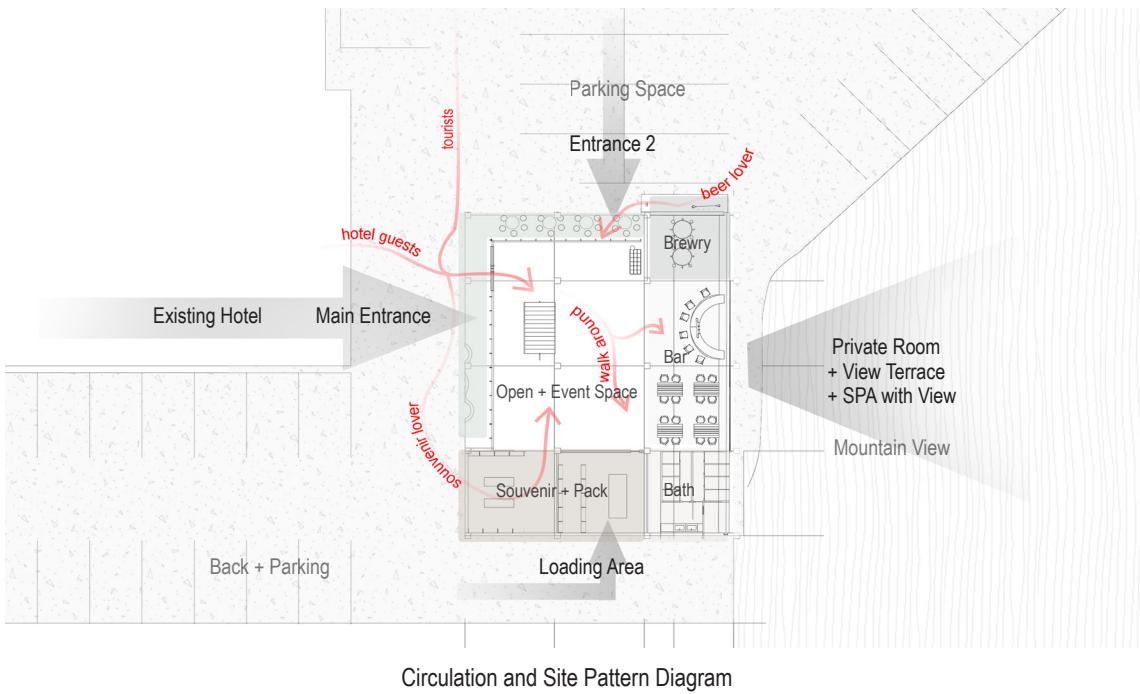
05

Arctic Brewscape

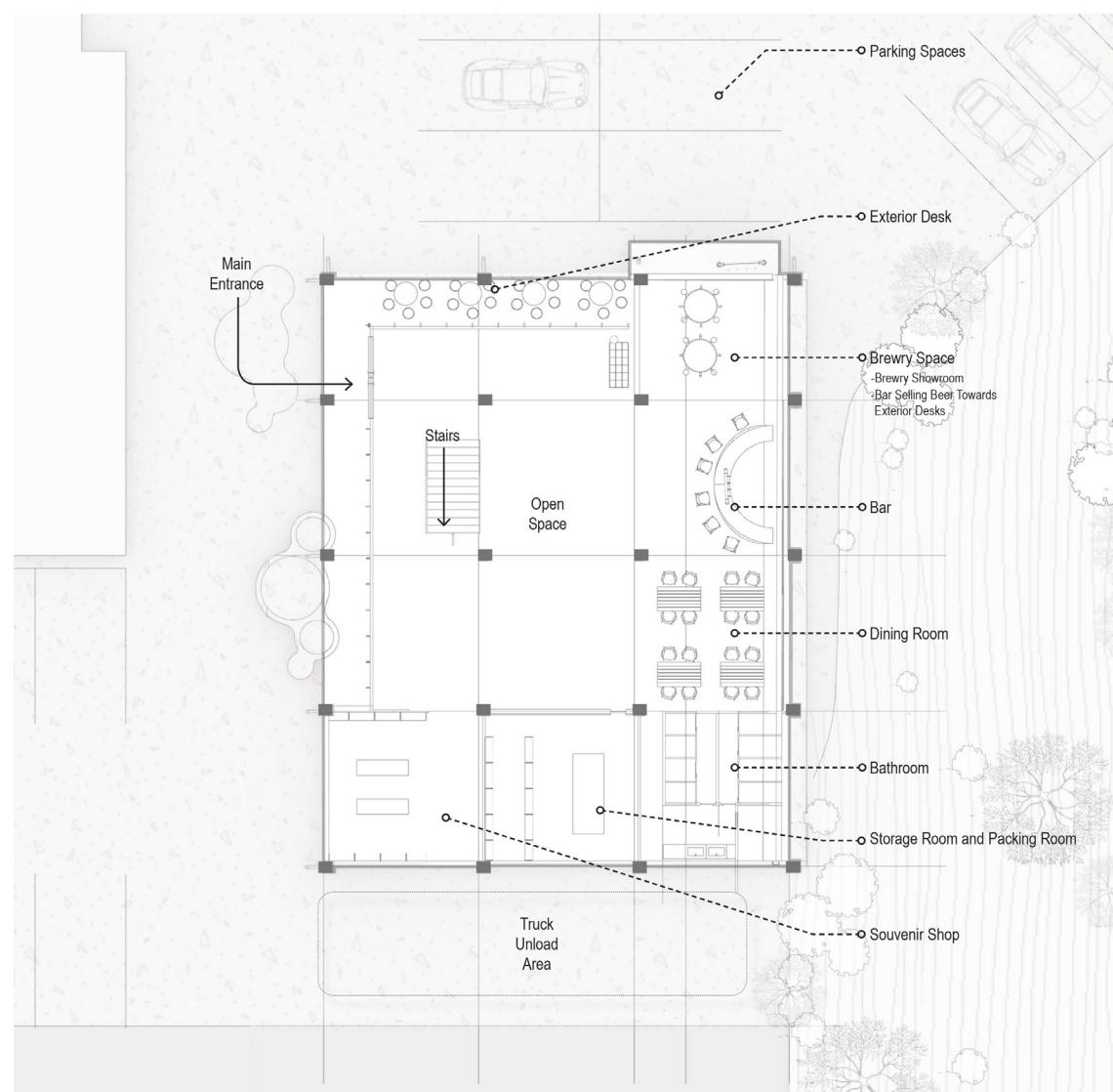
A Beer Spa with Harmonious Fusion of Iceland's Culture and Modern Amenities

Individual Work (Buildner International Architecture Competition)

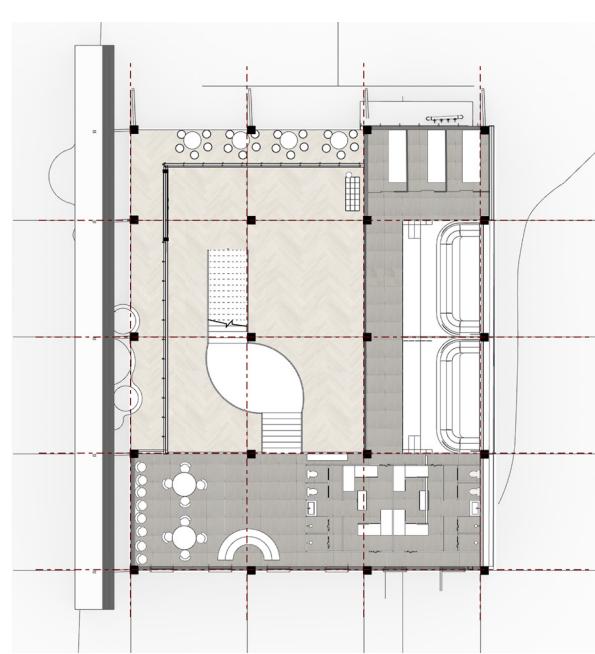
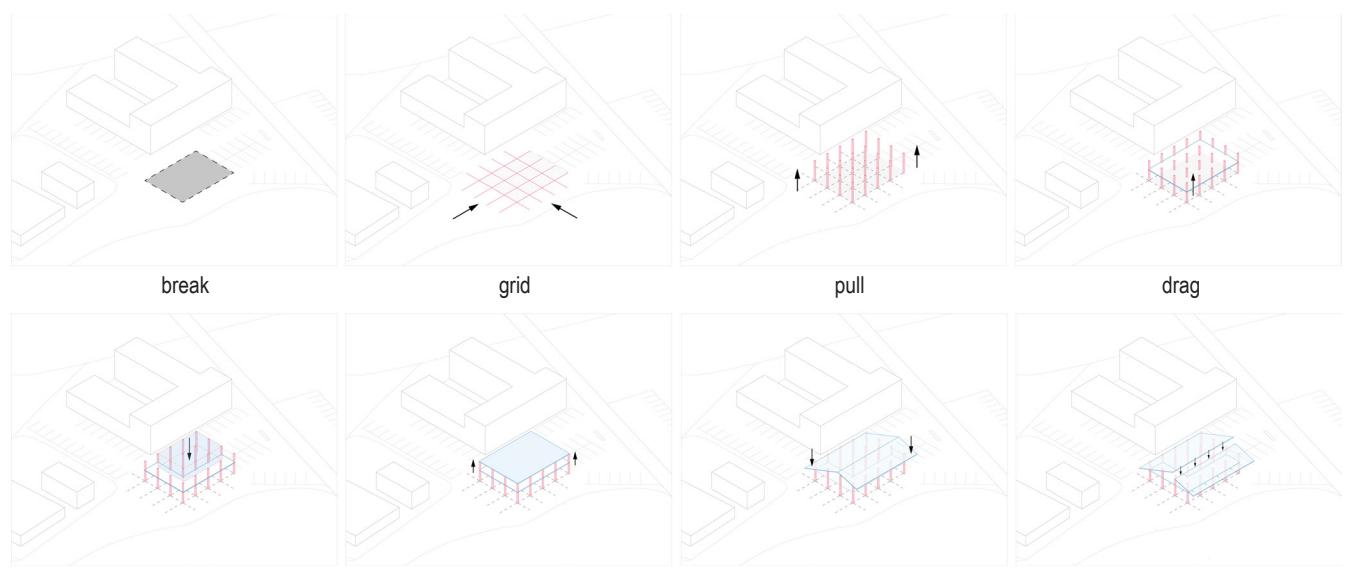
Fall 2023



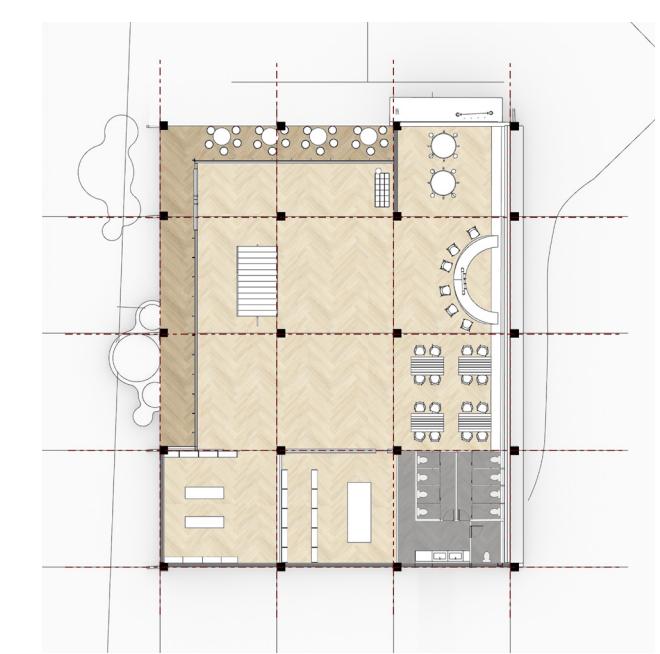
Circulation and Site Pattern Diagram



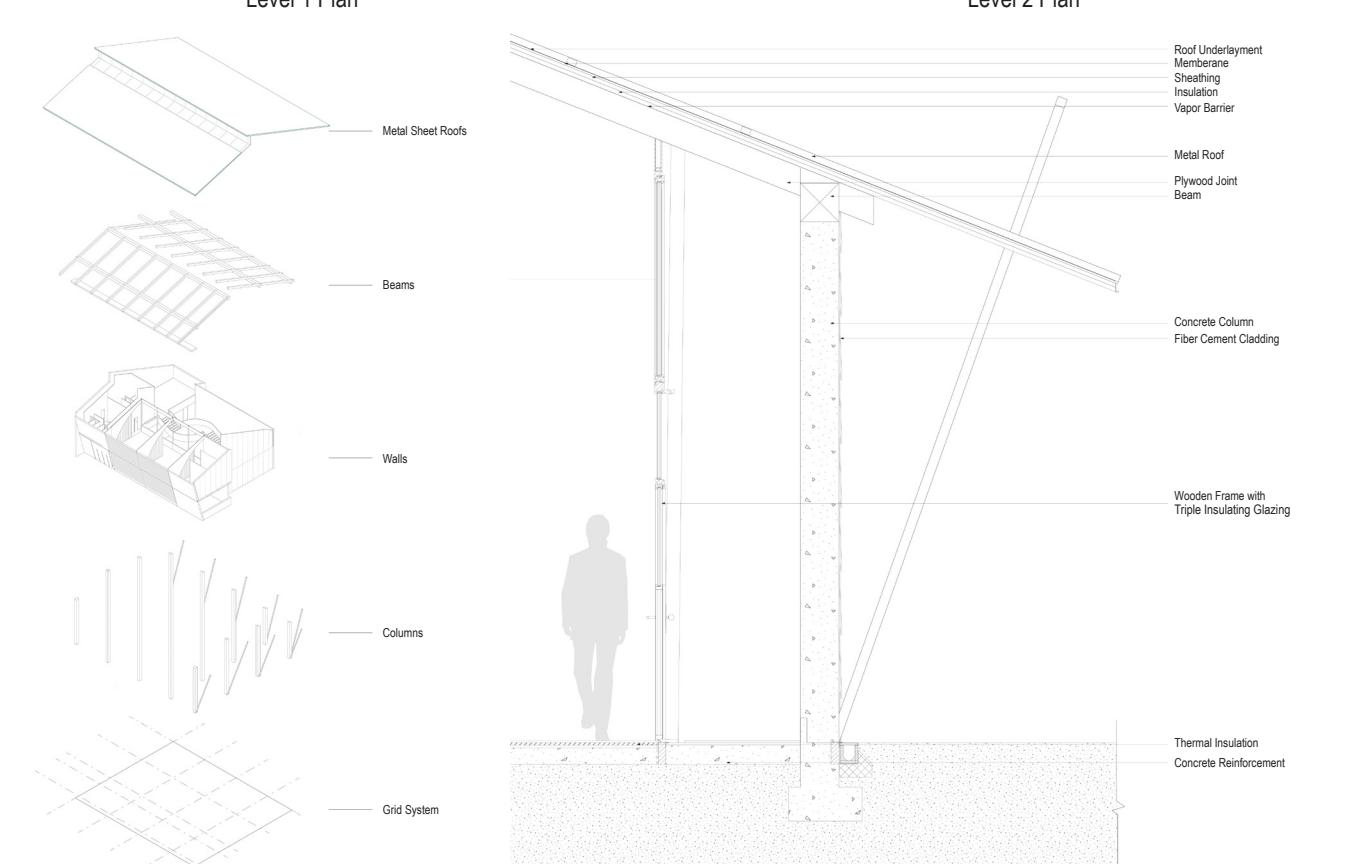
Site Plan



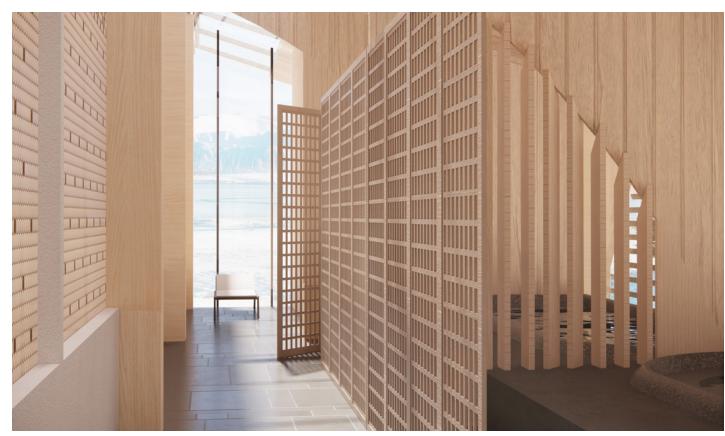
Level 1 Plan



Level 2 Plan



Exploded Structural Diagram



Renders

06

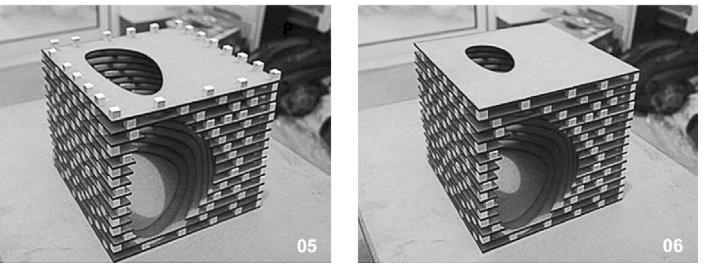
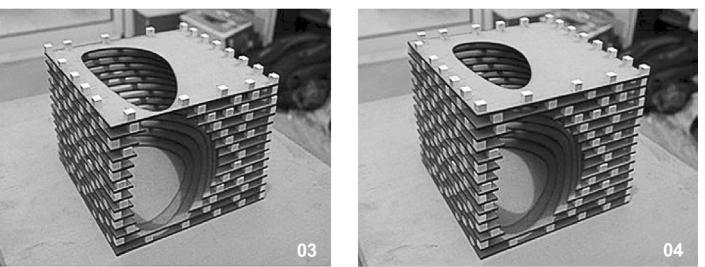
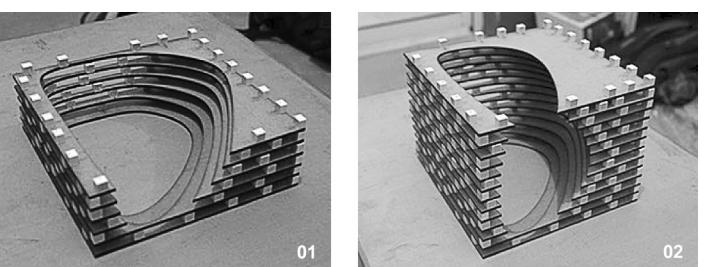
Lightwood House

An Entity Construction for Stay and Rest

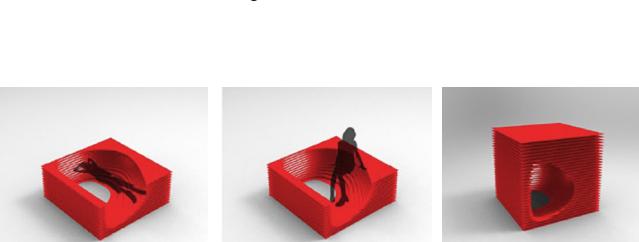
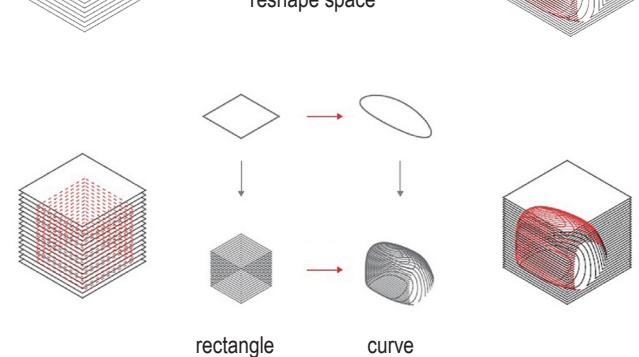
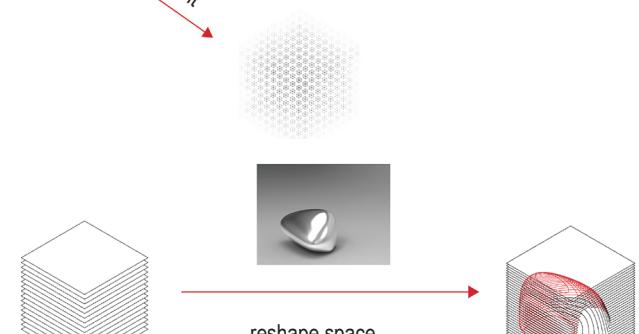
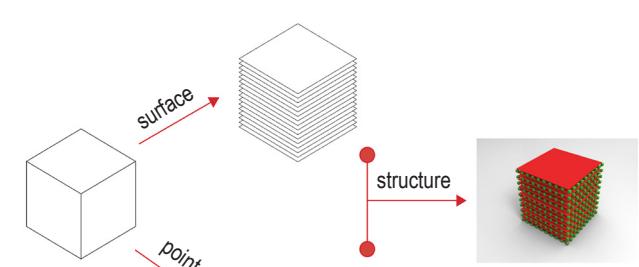
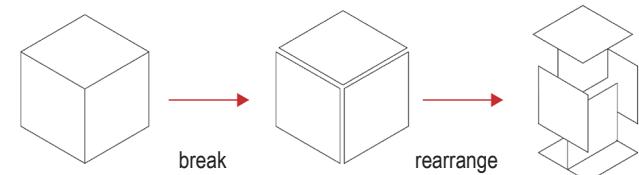
Internship Group Project (Responsibility: designed and programmed the scripts for model, and assembled the model)

Summer 2021

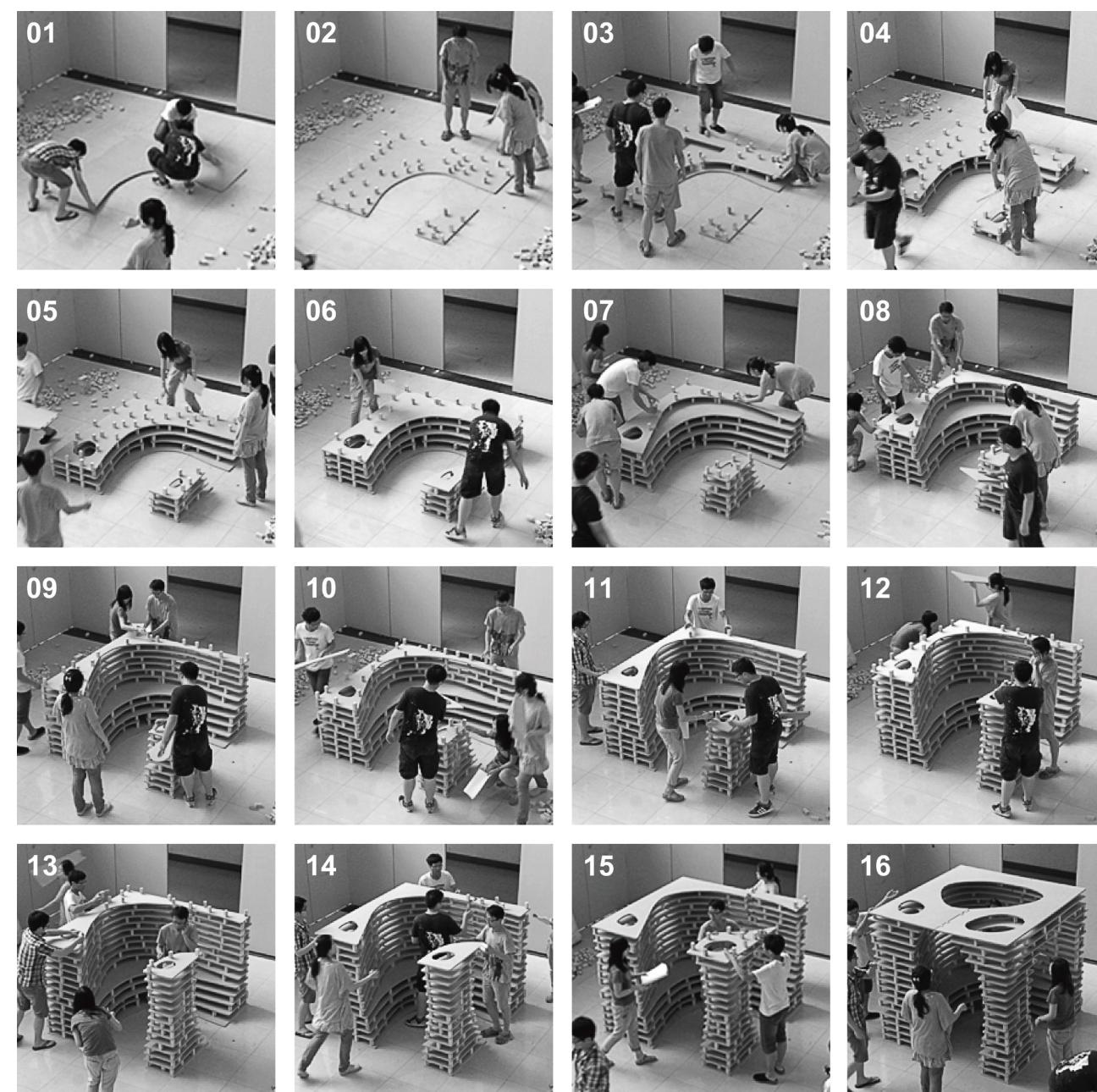
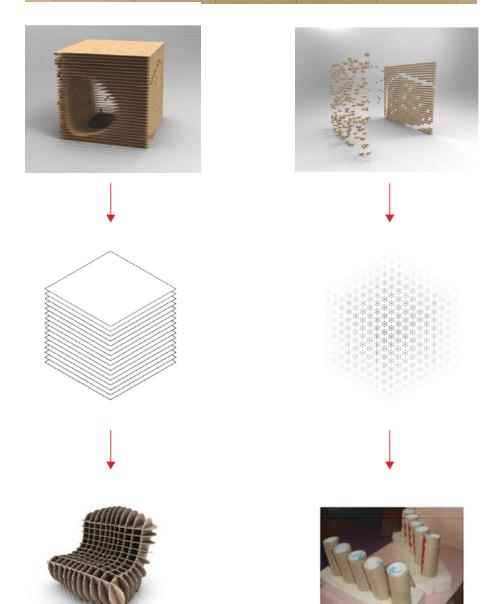
Instructor: Hua Wu, Lei Zhang



Small-Scale Model Photos



Form Analysis



Processing Photos

Wood Board

LED Lighting Boxes

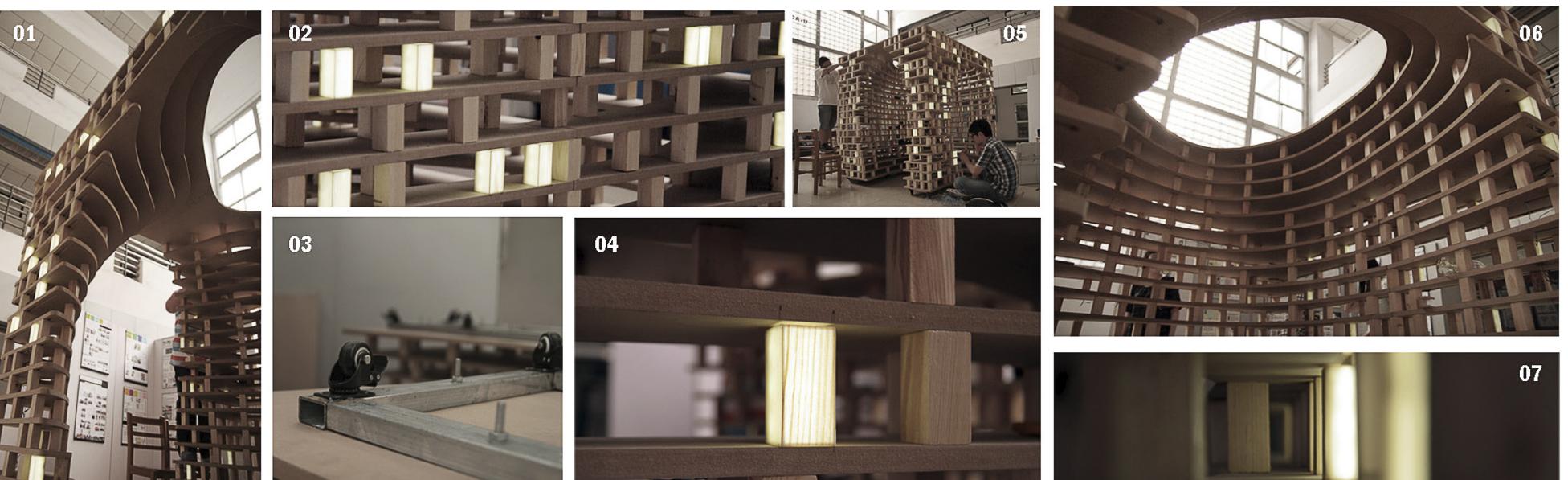
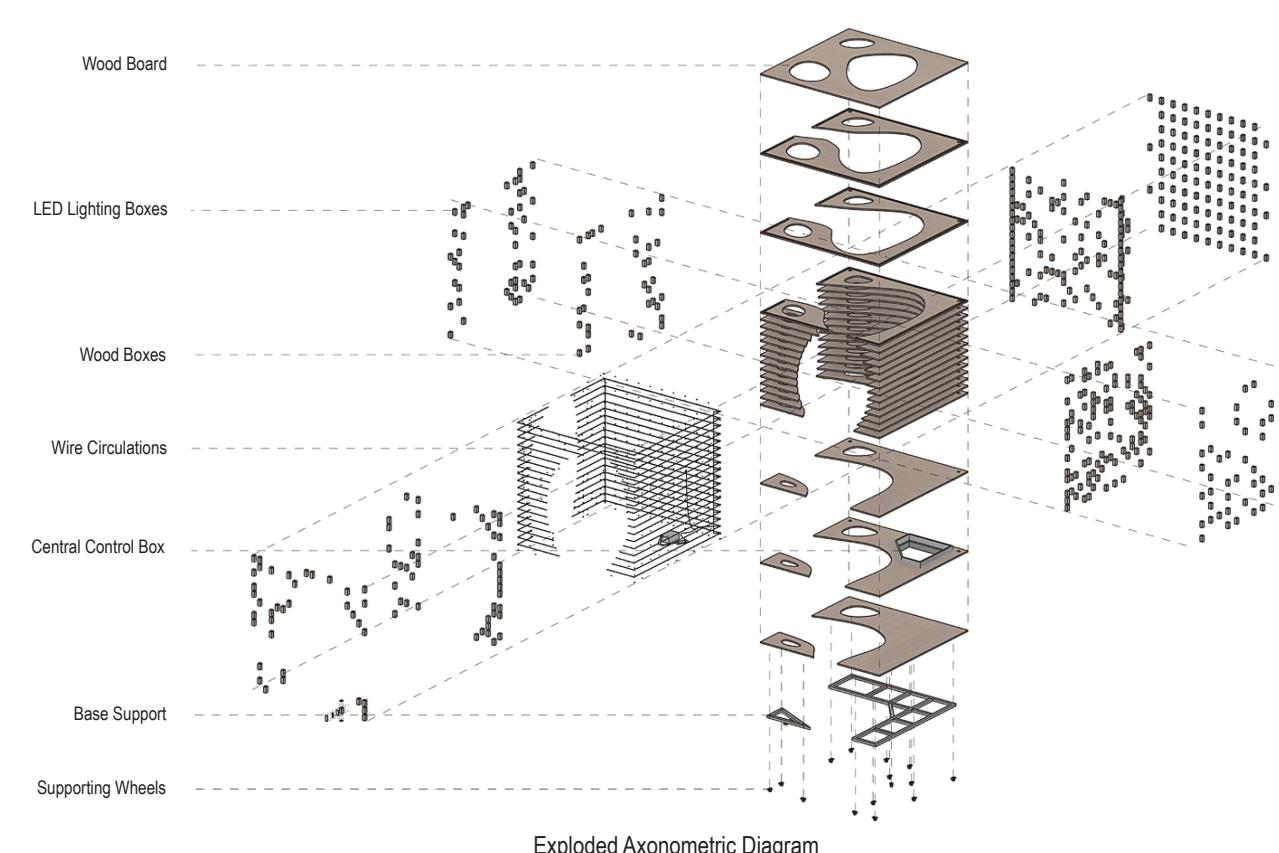
Wood Boxes

Wire Circulations

Central Control Box

Base Support

Supporting Wheels



Full-Scale Model Photos

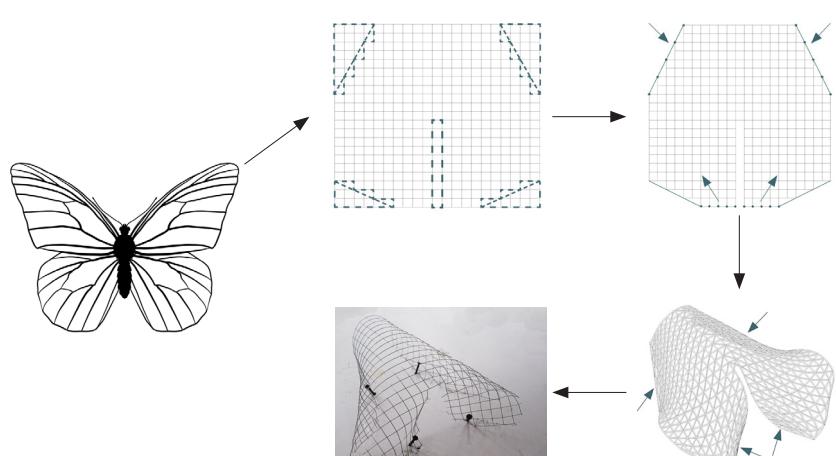
07

Leisure Pavilion

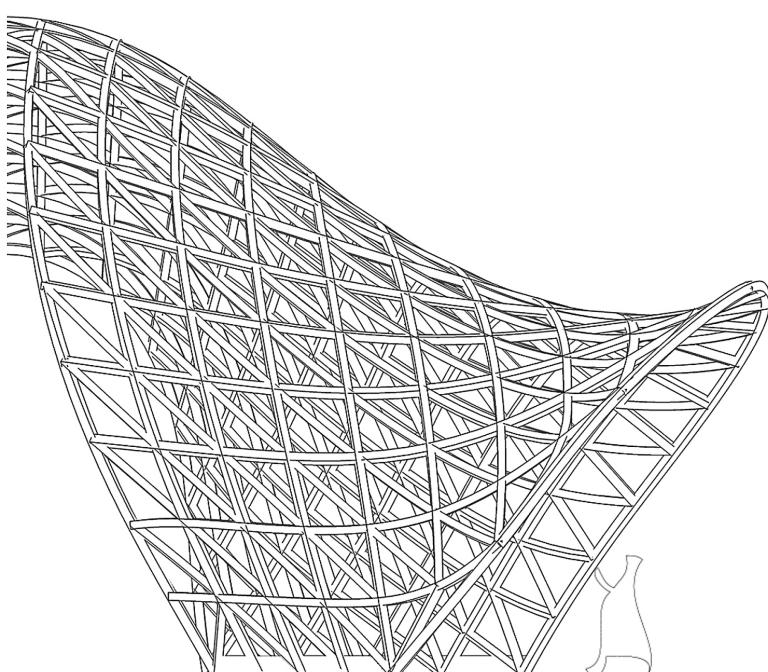
A Parametric Design Test for Light and Tangible Material

Individual Work, Summer 2020

Instructor: Li Chen, Niya Jones

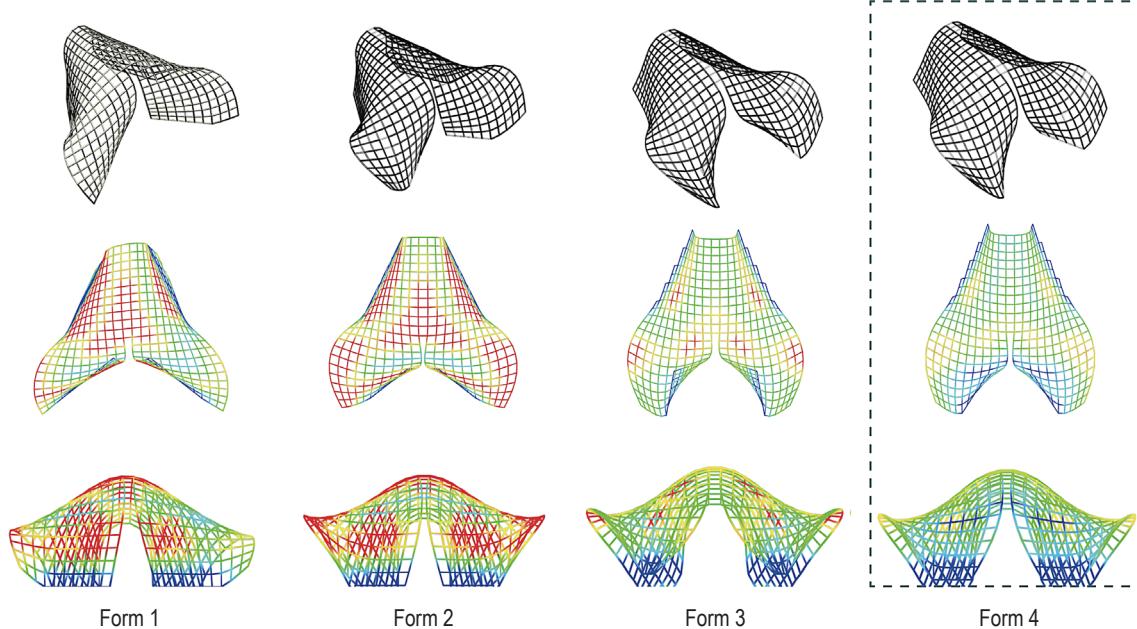


Form Analysis

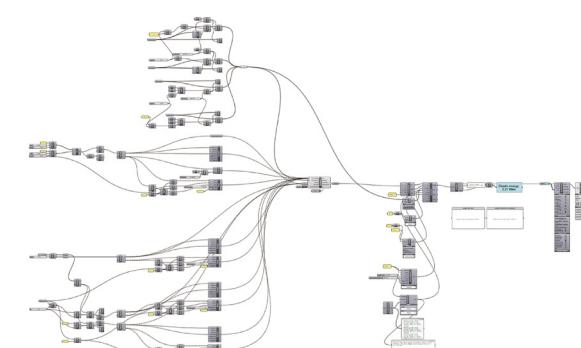


Zoom in Elevation

Mechanical Analysis 1



Grasshopper Scripts



Display Legend

	<1cm		2-3cm		>4cm
	1-2cm		3-4cm		

Fitness: Displacement (cm)

Loads: Gravity & Line= 1KN/m

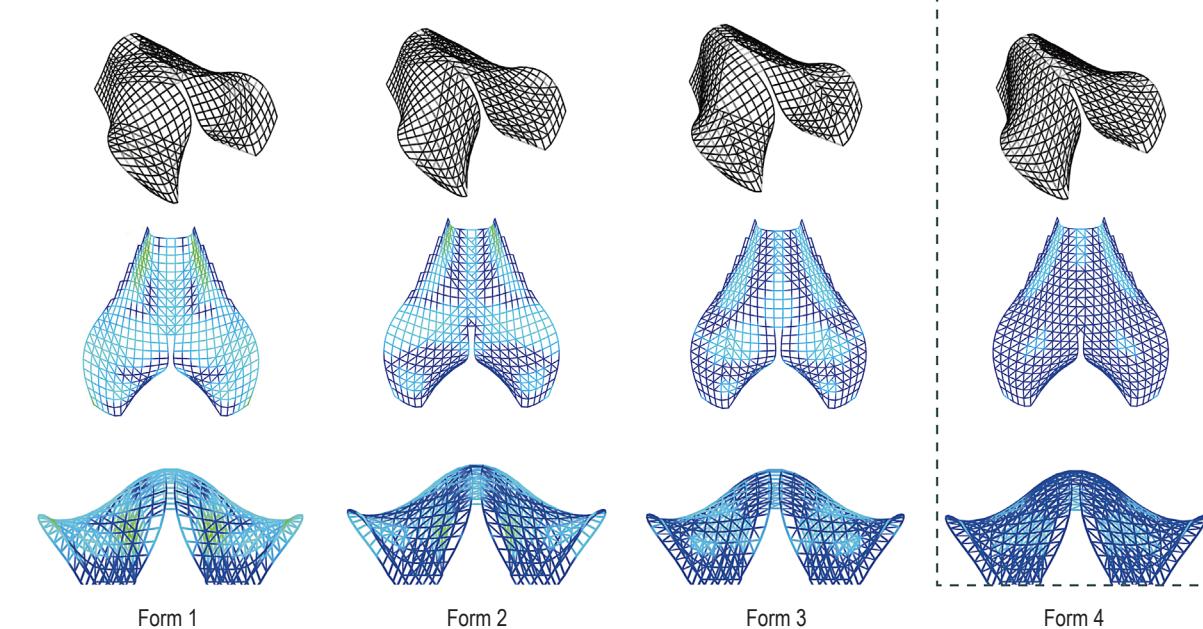
Support Points: 4 Choosen Lines around with 5,5,5,5 points.

Material Selection: Wood E:1050 [kN/cm²]

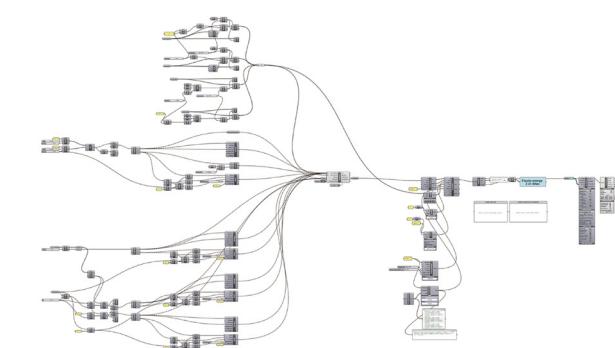
Beam Cross Section: Square 5*6cm

Bracing Cross Section: Square 5*4cm

Mechanical Analysis 2



Grasshopper Scripts



Display Legend

	<1cm		2-3cm		>4cm
	1-2cm		3-4cm		

Fitness: Displacement (cm)

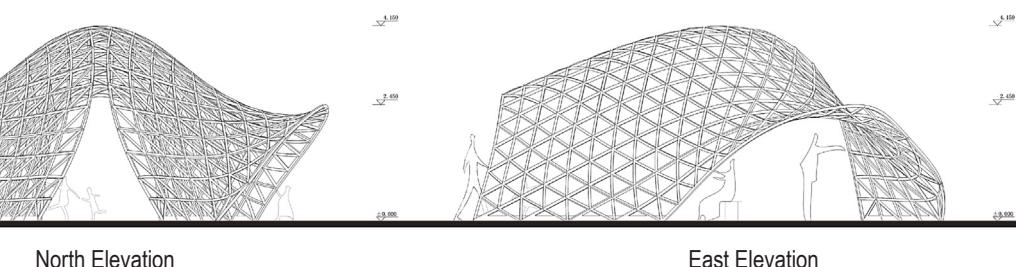
Loads: Gravity & Line= 1KN/m

Support Points: 4 Choosen Lines around with 5,5,5,5 points.

Material Selection: Wood E:1050 [kN/cm²]

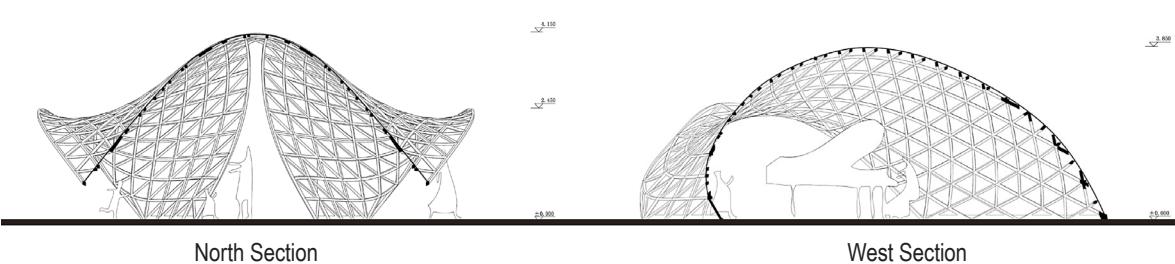
Beam Cross Section: Square 5*6cm

Bracing Cross Section: Square 5*4cm



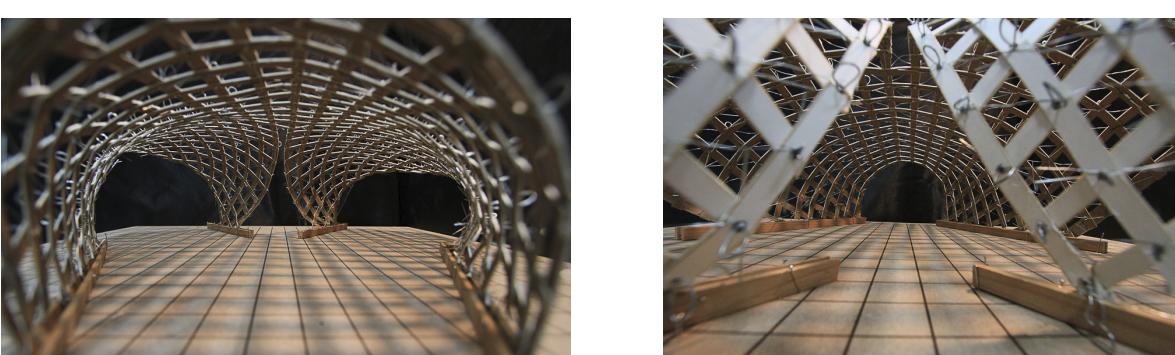
North Elevation

East Elevation

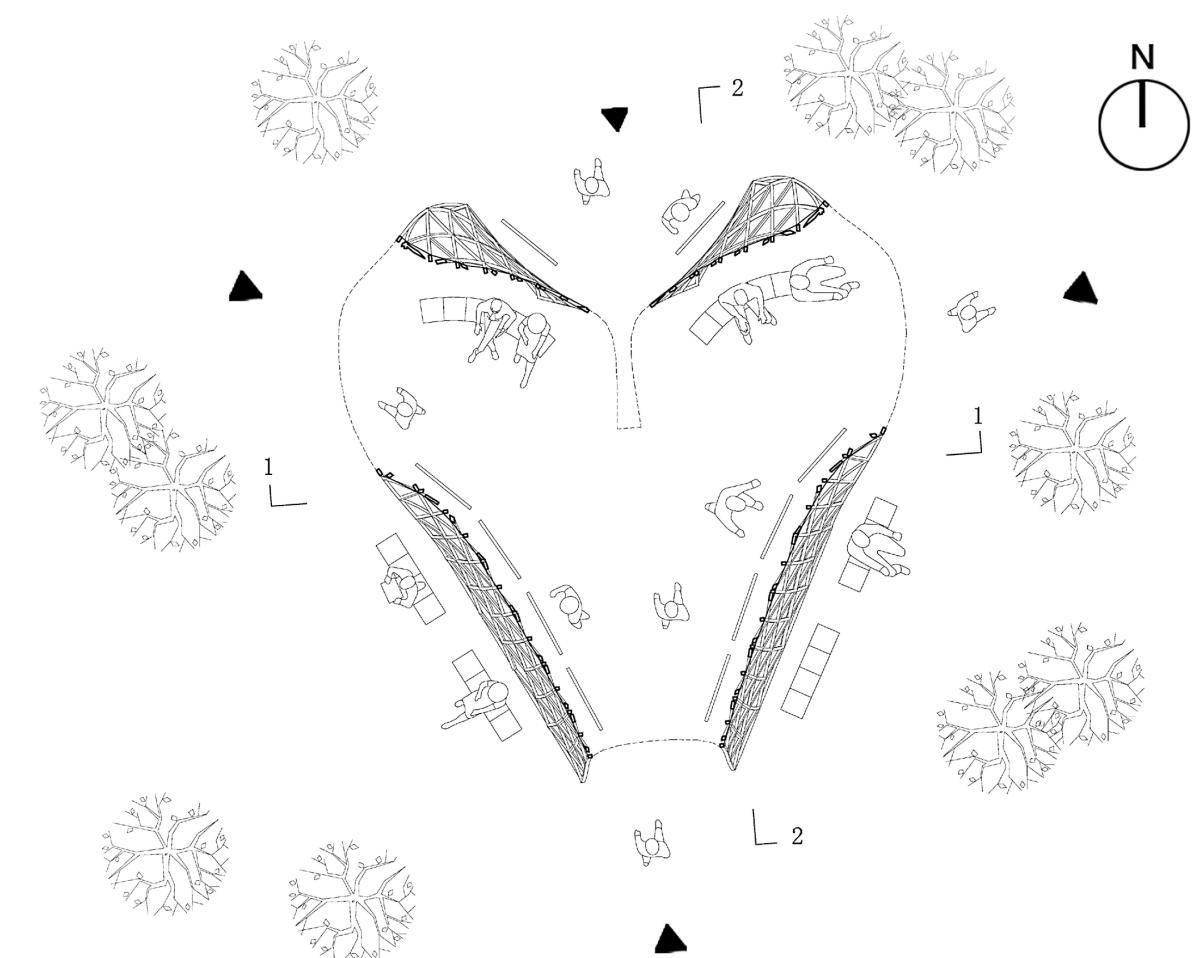


North Section

West Section



Zoom in Photos



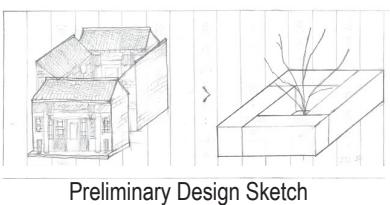
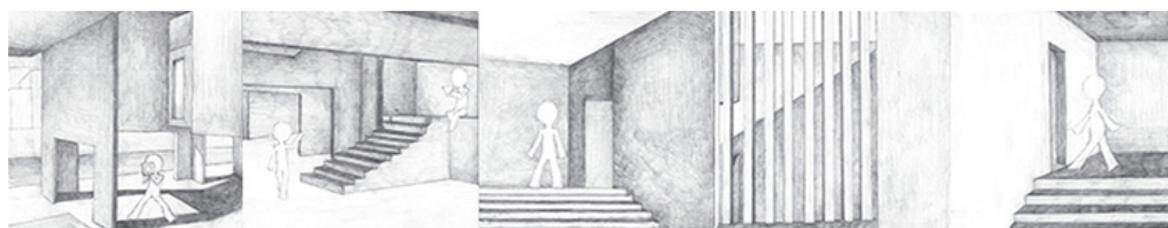
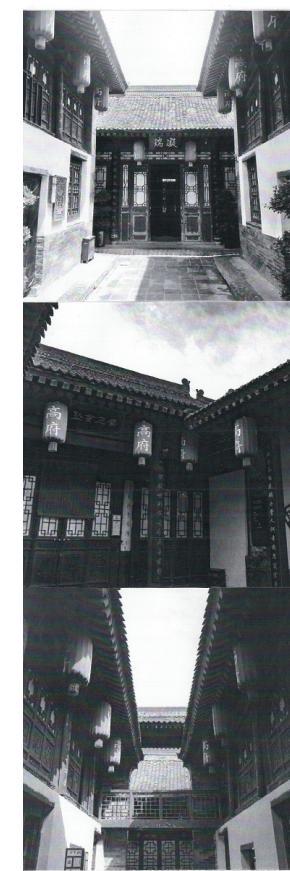
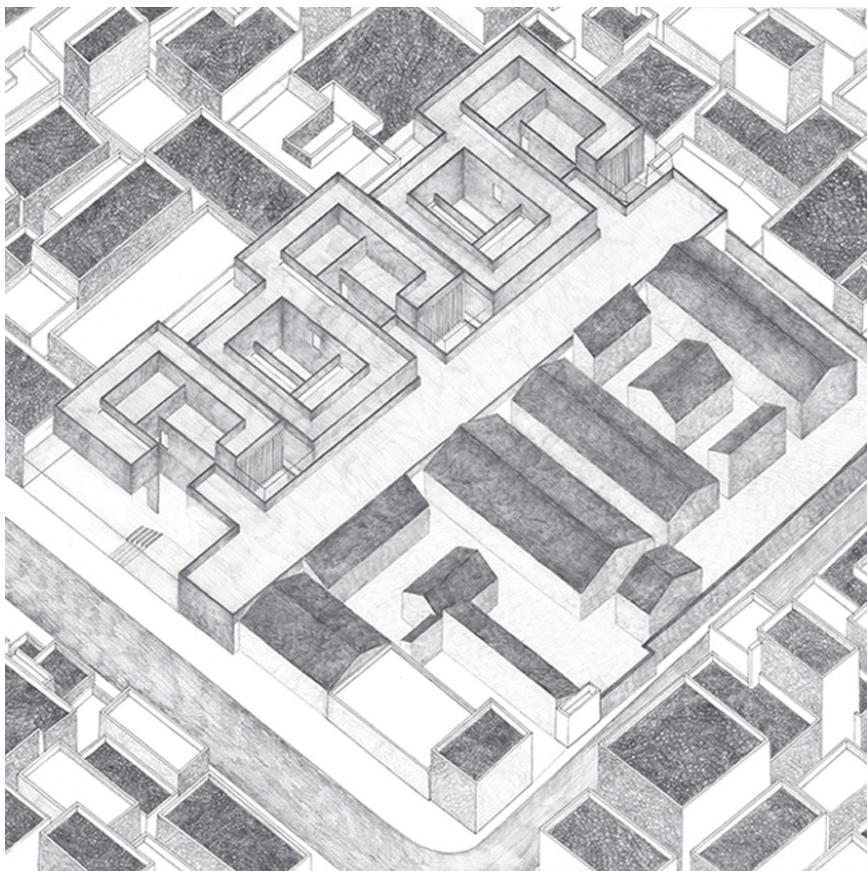
Plans

Bamboo Valley

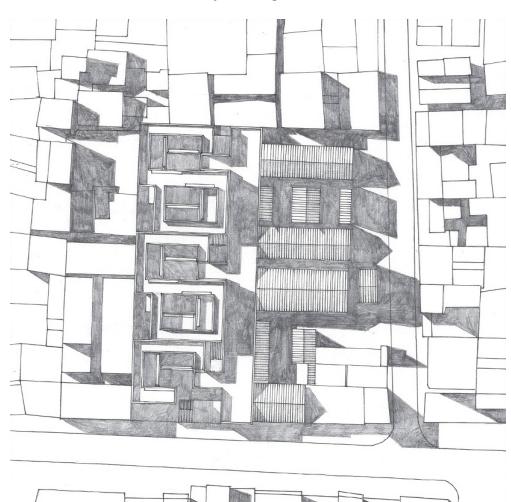
A Renovation Project to Find the Beauty in Nanjing Ancient Town by HandSketch

Individual Work, Winter 2020

Instructor: Huan Sun

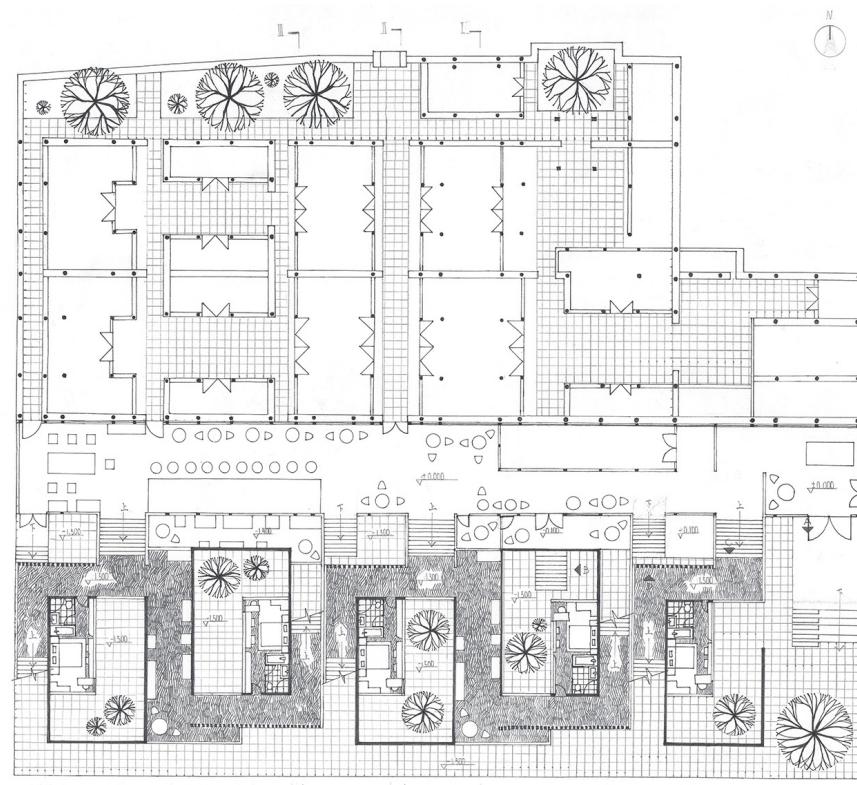


Preliminary Design Sketch

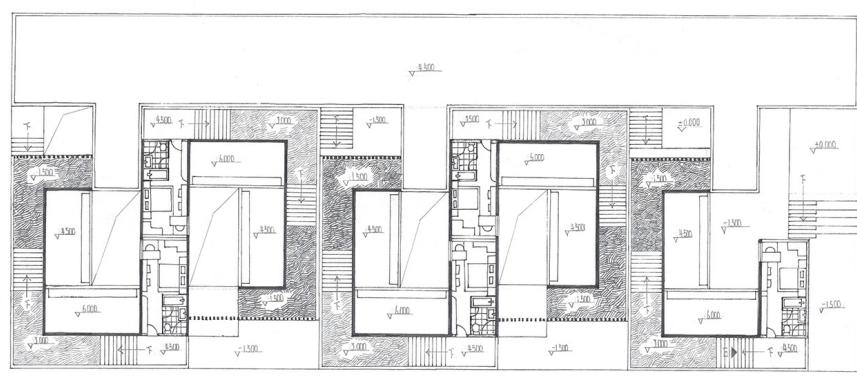


Site Plan

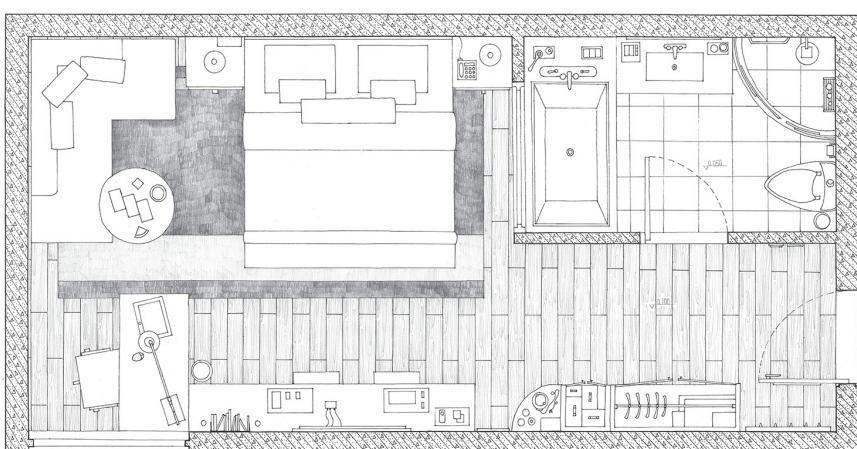
Street Sketch



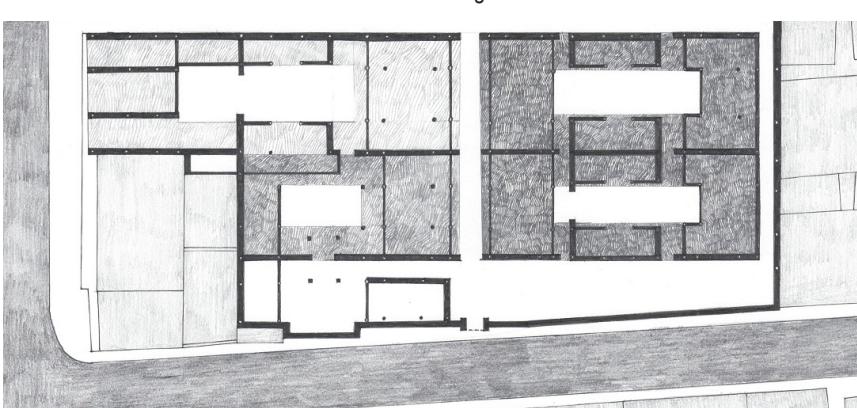
Level 1 Plan



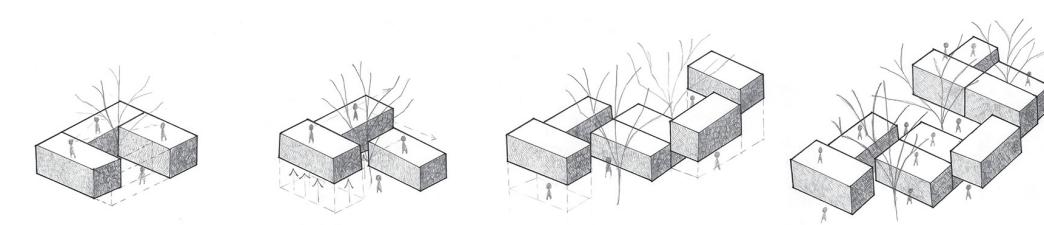
Level 2 Plan



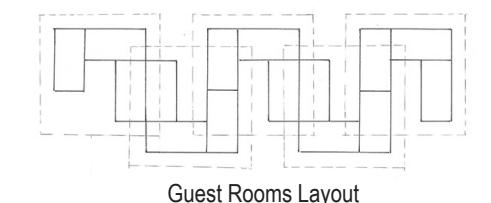
Guest Room Enlarged Plan



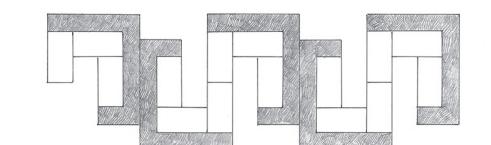
Plan Sketch



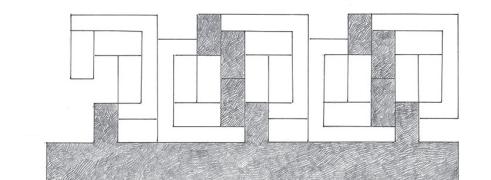
Form Analysis



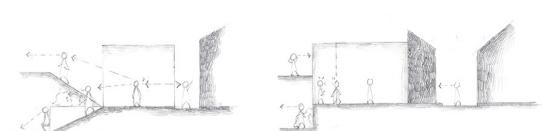
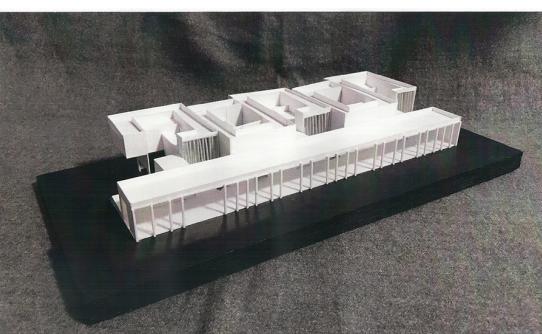
Guest Rooms Layout



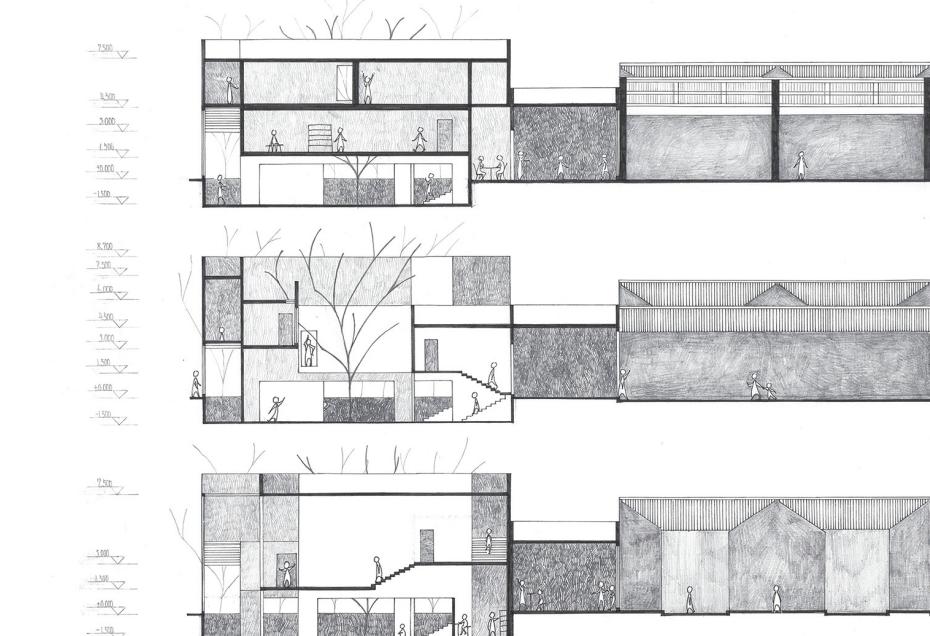
Corridor Layout



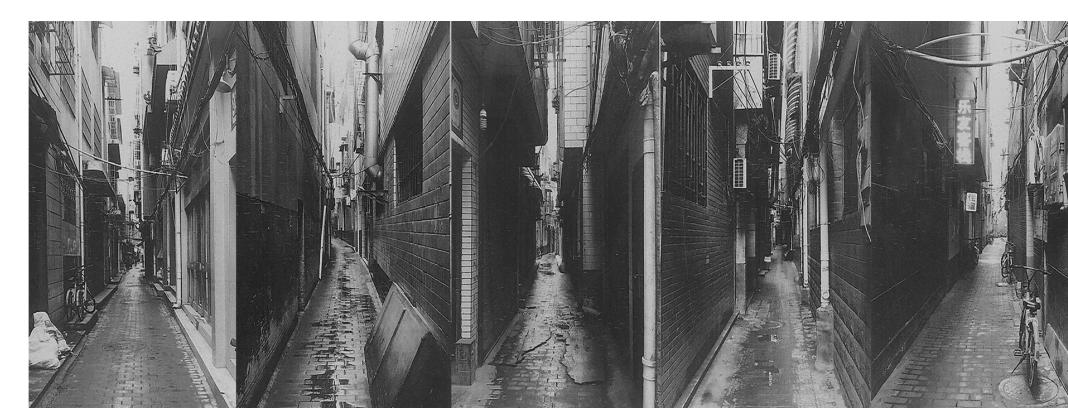
Public Space Layout



Section Analysis 1-4



Sections Level 1-3



Street Photos

Professional Work (Selected)

Work Samples Developed While Employed Full-Time (STUDIOS Architecture) Post-Graduation

Responsibility: fixed models, drew completed plans for typical levels, drew sections, rendered images, created wall and window studies; created concept studies, created analysis diagrams and sections, rendered images

Summer 2023 - Now

