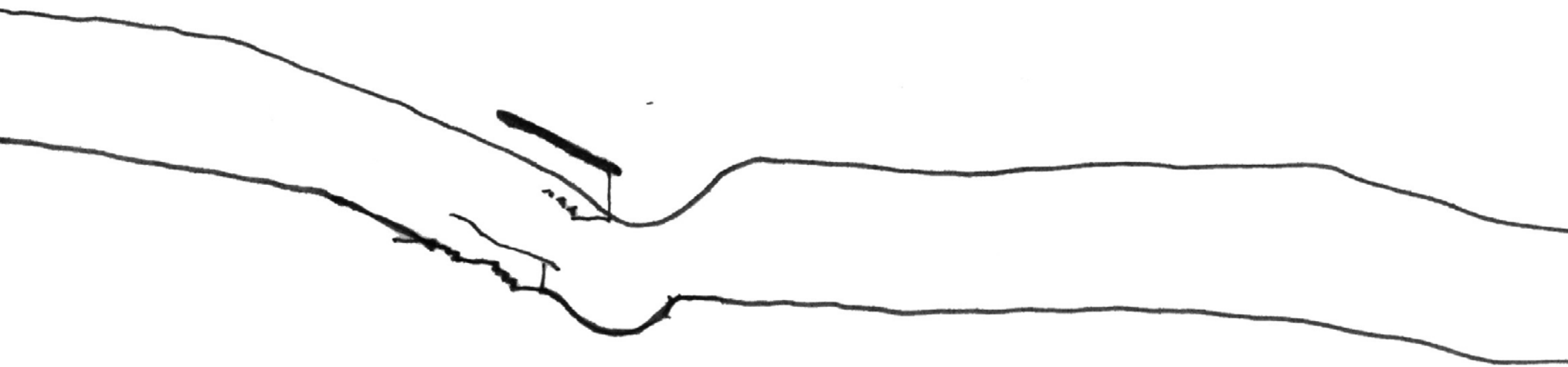


Janet (Zelin) Lu

Work Sample from 2019 - 2024



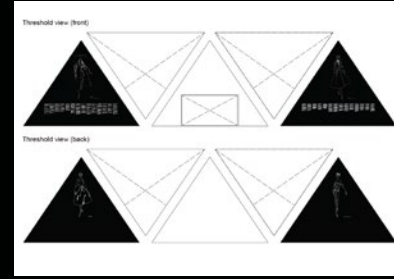
Christian Dior: Designer of Dreams at MOT

Built upon Christian Dior's spirit of reinvention and global reach in fashion, this Dior exhibition at Museum of Contemporary Art Tokyo features 22 curatorial themes. The set designs utilize different techniques, materials, or motifs referential to elements shared between Japanese tradition and culture and Dior brand collections.

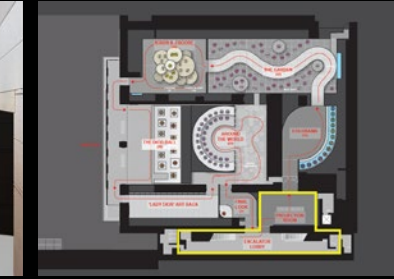
Team: Shohei Shigematsu, Christy Cheng, Jesse Catalano, Timothy Ho, Hangsoo Jeong, Eugene Kim



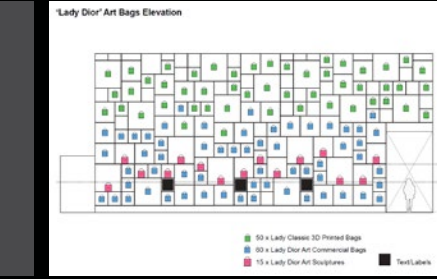
Process



Arranged wall graphics from entrance timeline to BF mural.



Assisted with BF technical details.



Contributed to *The Bag Room's* layout.



Produced physical models, including one at 1:25 of *The World&The Slope*.



Designed the *Lantern* layout.



Contributed to various visualizations.

Exhibition



Double-height front entrance timeline



Basement Floor magazine rack



The Bag Room



The Slope standing two stories high



The World&The Lantern, nested beneath the *The Slope*



Wall display of Dior History



University of Warwick

The project helps University of Warwick in Coventry, UK envision a new extension for the department of business and economy. Located in an idyllic part of the campus, the new complex encourages connection to the surrounding nature while providing various spacious learning environments indoor.

Team: Niels Gravergaard, Nina la Cour Sell, Hugo Shackleton, Christopher Paxton, Henriette van Deurs, Ani Zakaryan

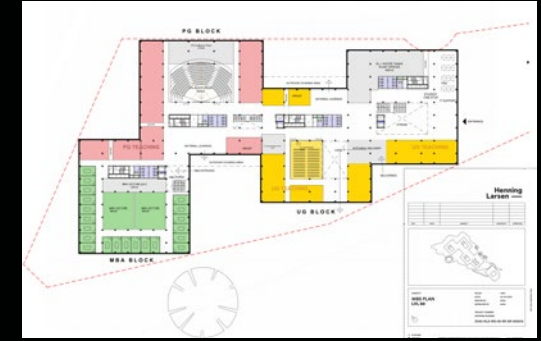
Process



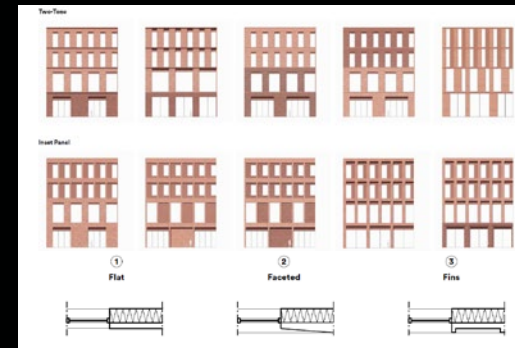
Led both digital and physical modeling of the context.



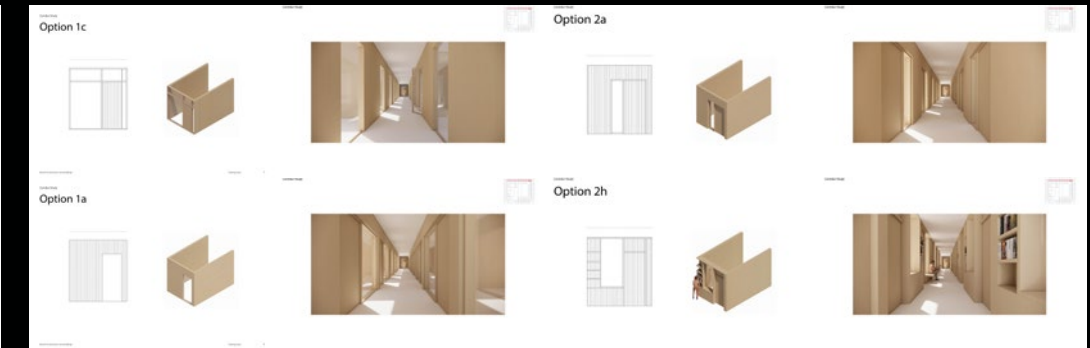
Created massing study for different design options.



Assisted with the plan drawings.



Produced localized studies of exterior and interior spaces, such as facade and office floor corridor for presentation.



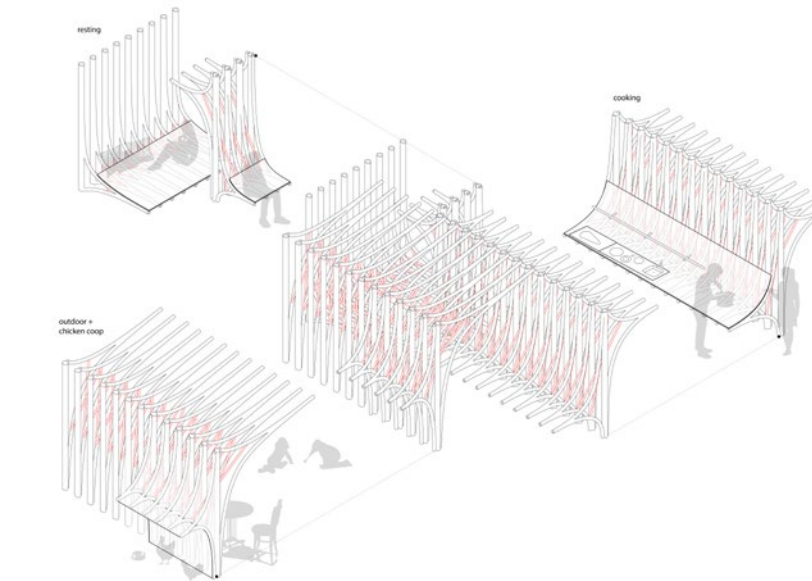
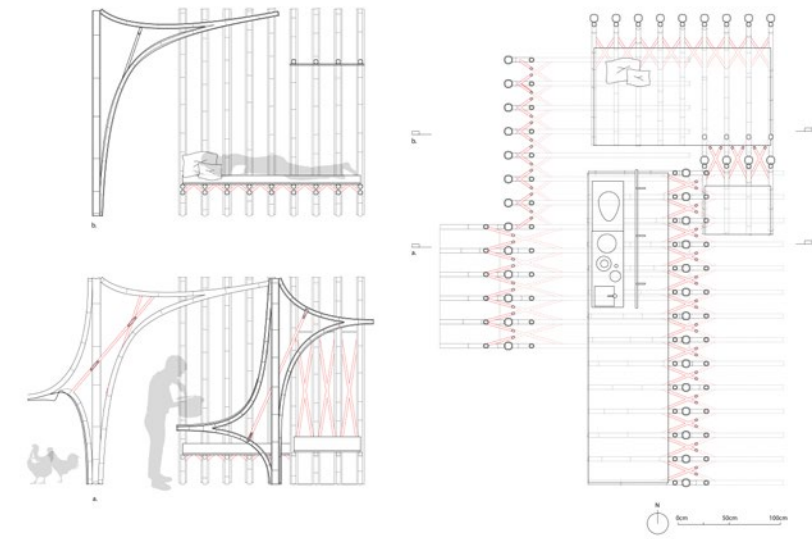
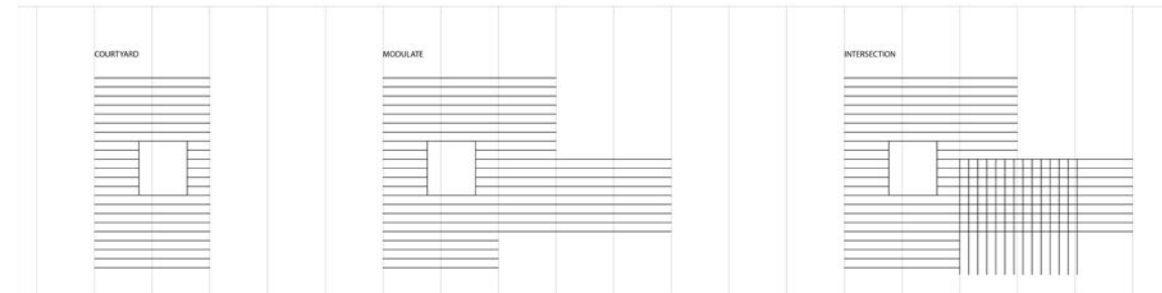
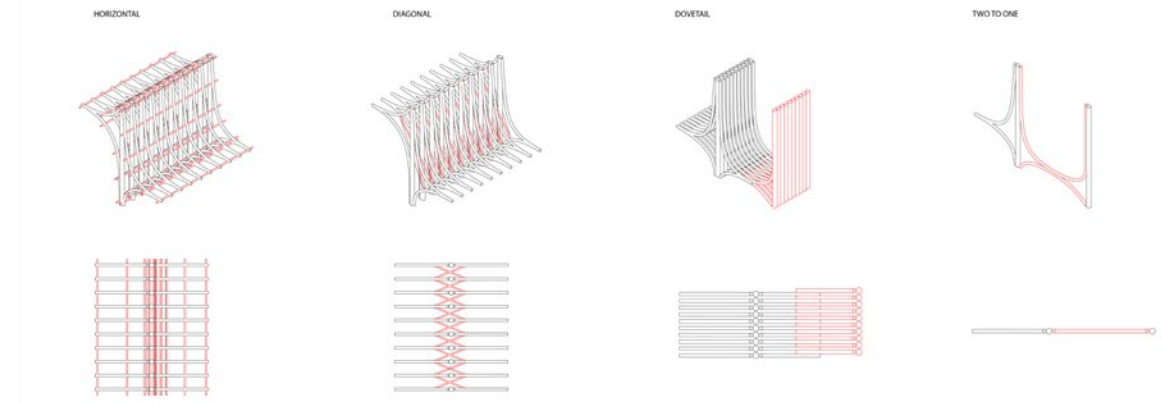
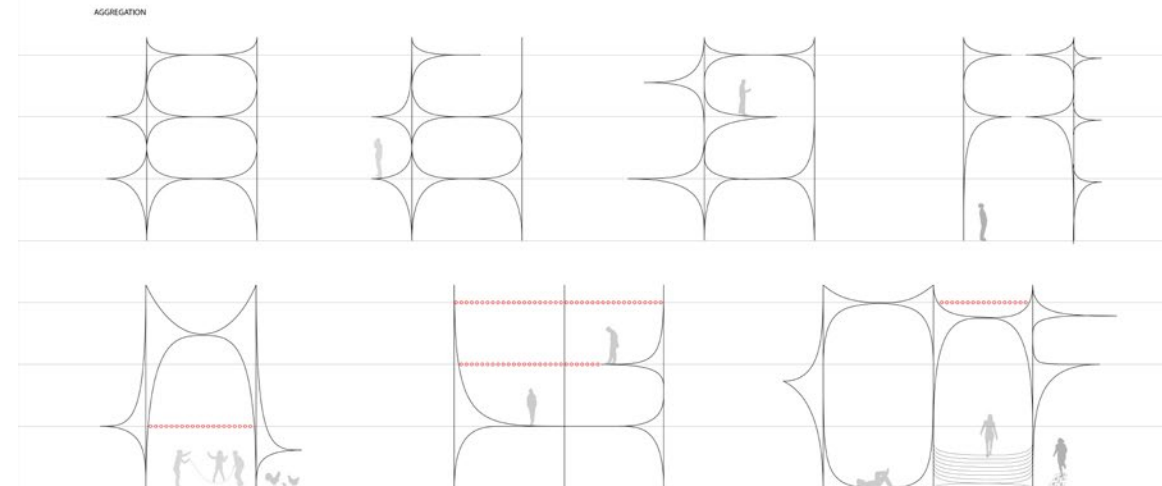
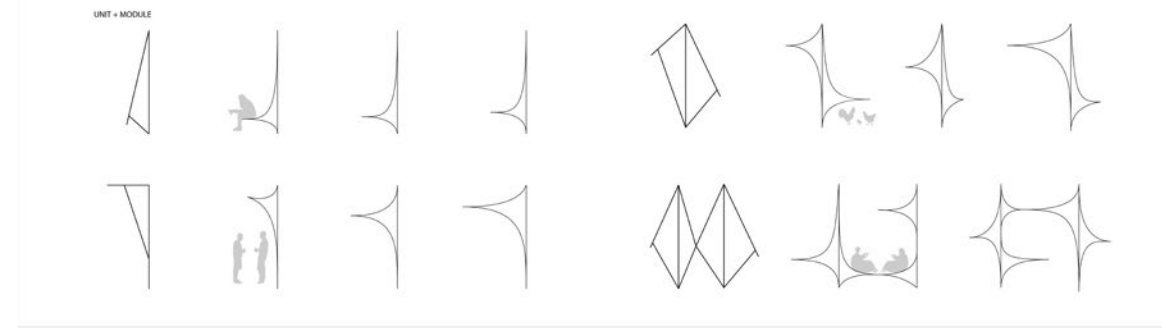
Researched precedents of and designed landscape and atrium spaces and created visualizations.

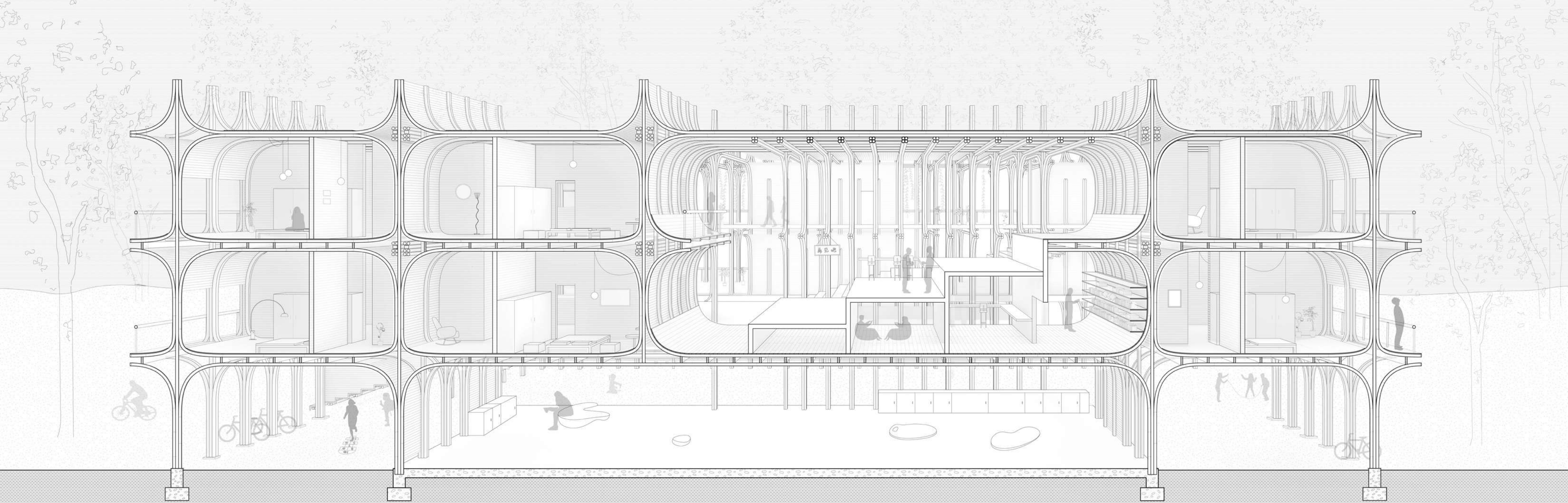


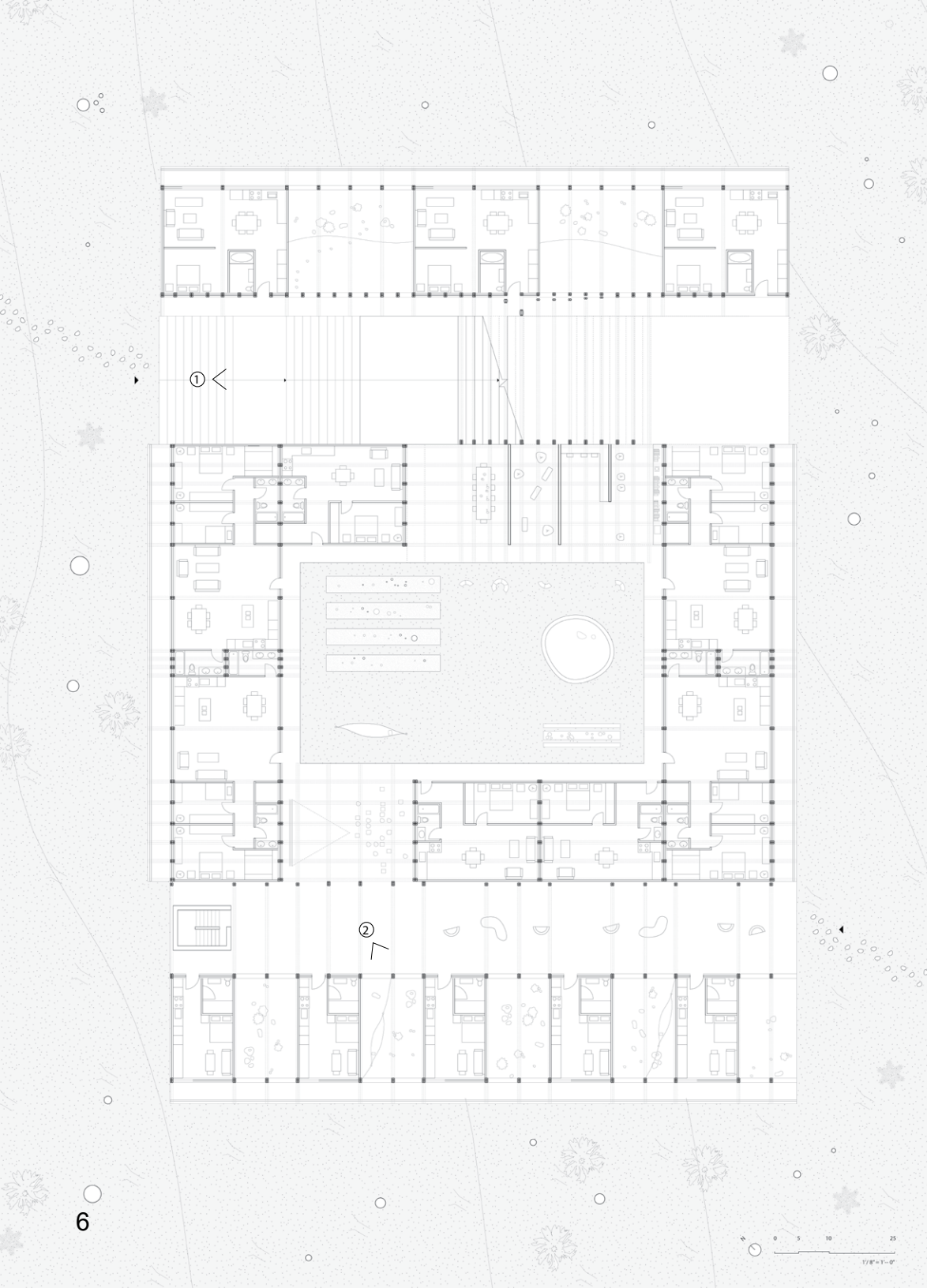
1. The Big Pinch

This housing project explores the idea of bamboo cantilever. Instead of using traditional cantilever, the project takes advantage of bamboo's ability to be simultaneously flexible and rigid to form a new means of cantilevering with which one can begin to manipulate the curve to create a variety of spaces, such as a bench to sit on, a roof to linger under ... The prototype was built with the help of my groupmates, Hoon and Milena, from the parallel seminar.

Professor: Leslie Lok





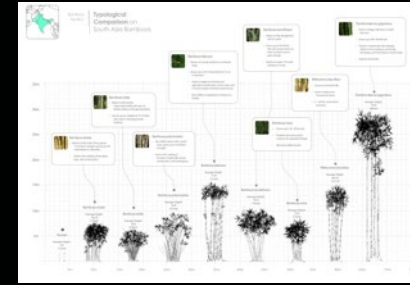


① Main entrance



② Studio unit

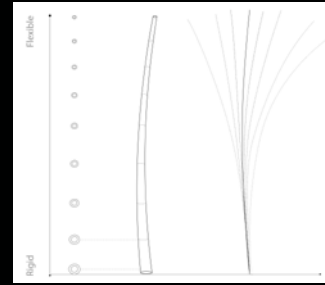
Specificity



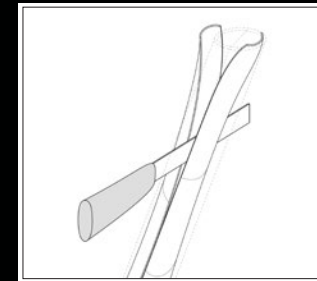
Asian bamboo species



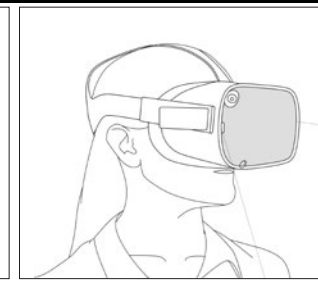
Bamboo swing in Nepal, showing rigid bottom, flexible top



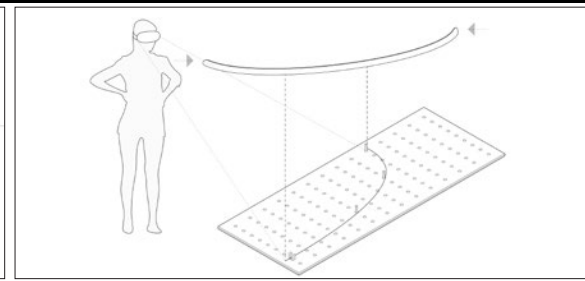
Method



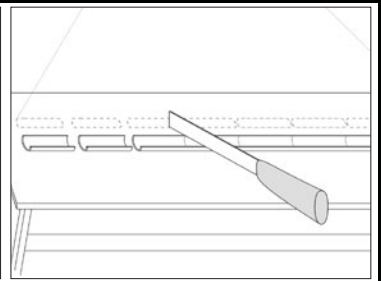
1. Splitting to make stripes and tiles.



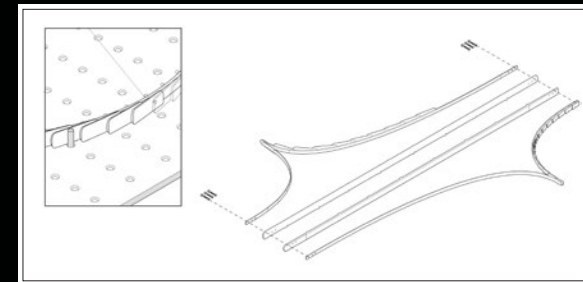
2. Activate Hololens.



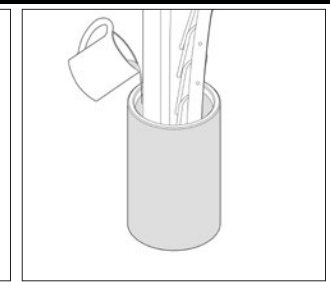
3. Bend bamboo strip on the jig following the projection.



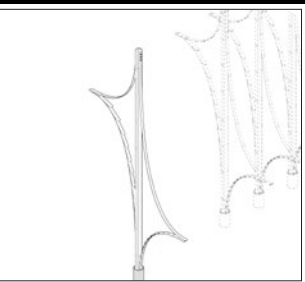
4. Tile the stripe following the projection.



5. Fasten tiles onto strip to set the curve.



6. Footing poured from bamboo cylinders.



7. Assembly.

Prototype



Rigid tiles



Integrating VR for accuracy



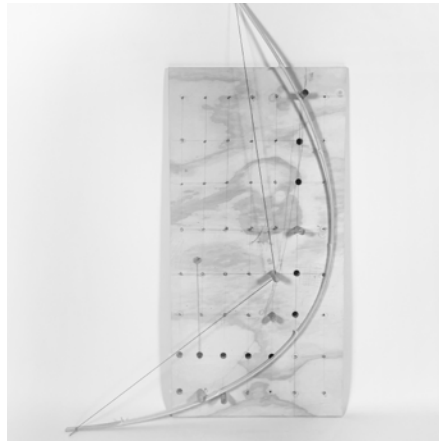
Shingling the tiles on a single flexible bamboo stripe



① Shingle



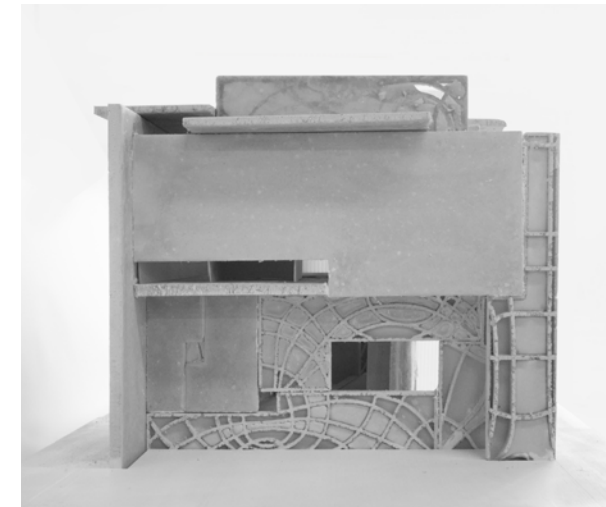
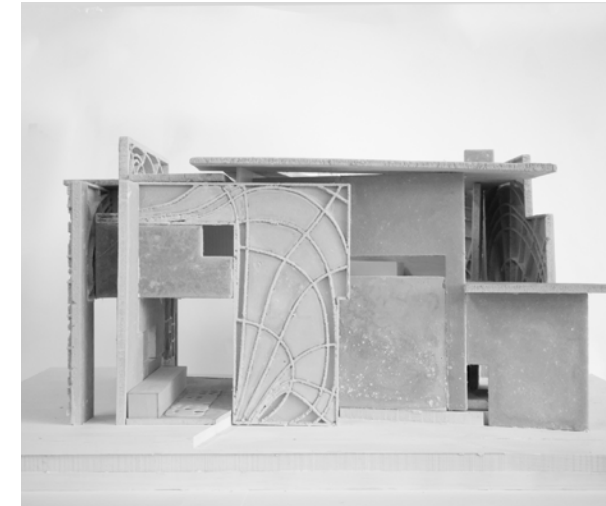
② Footing



2. kooLhouse

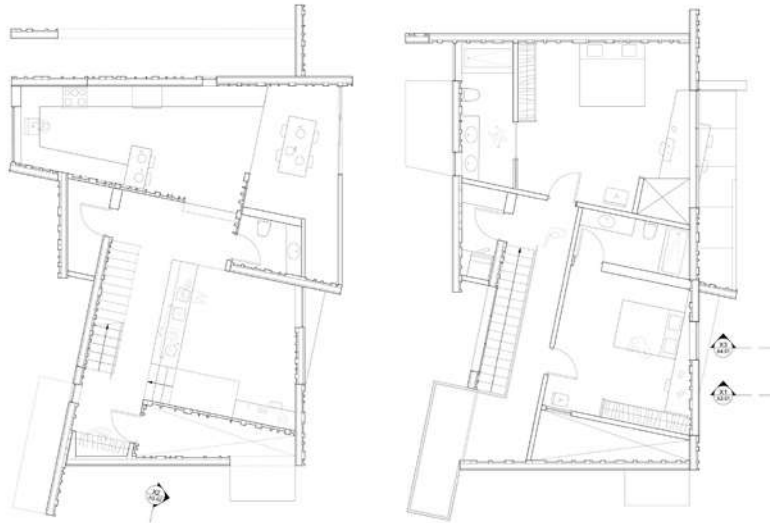
Designed with my partner Cirrus Chen for the Whitehawk Eco Village in Ithaca, the kooLhouse is a two-story 3D printed concrete house that derives its form and pattern from printing optimization. Its interlocking L shapes minimize printing rounds by seamlessly fitting on the print bed. Similar to the Nervi system, each L's intricate pattern follows force distribution based on wall size and orientation. Additional concrete are strategically poured for further structural support. This method eliminates formwork, directing concrete only where needed, reducing material usage by 30% to 50%.

Professor: Sasa Zivkovic



koolhouse
ARCH 5101 - PBI

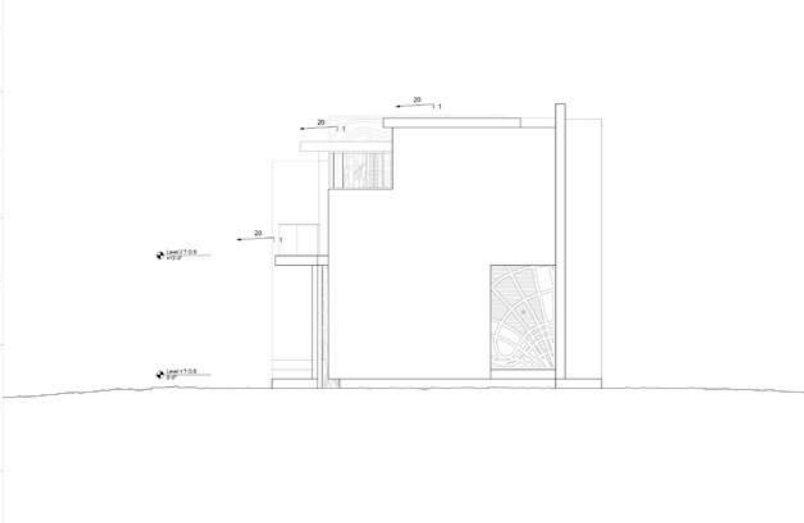
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



1 Floor Plan
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A1.01

koolhouse
ARCH 5101 - PBI

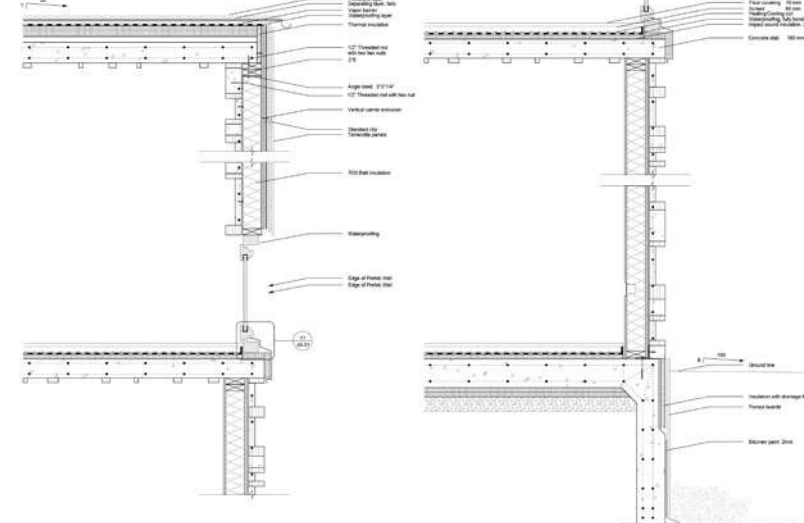
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



2 Elevation
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A2.02

koolhouse
ARCH 5101 - PBI

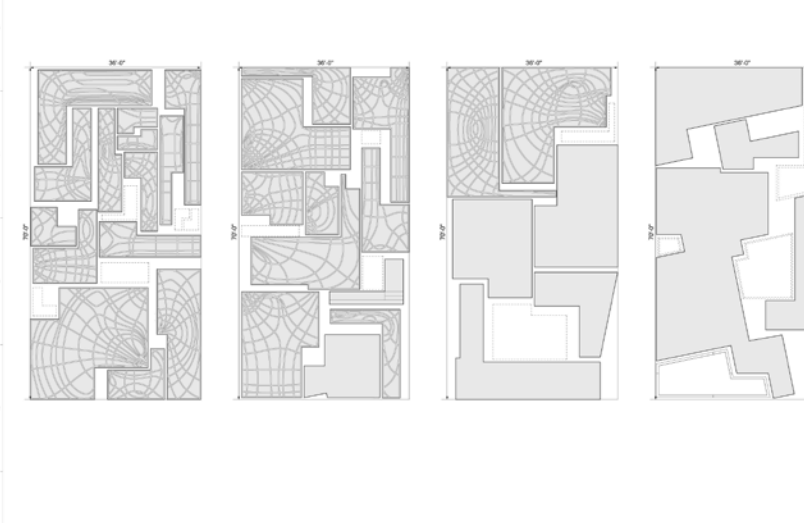
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



1 Wall Section
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A4.01

koolhouse
ARCH 5101 - PBI

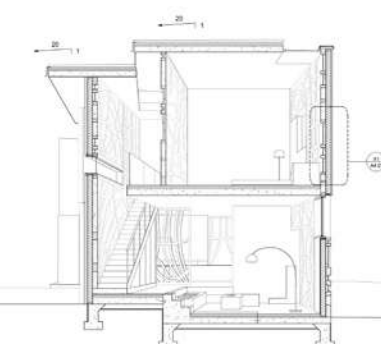
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



1 Floor Plan
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A6.01

koolhouse
ARCH 5101 - PBI

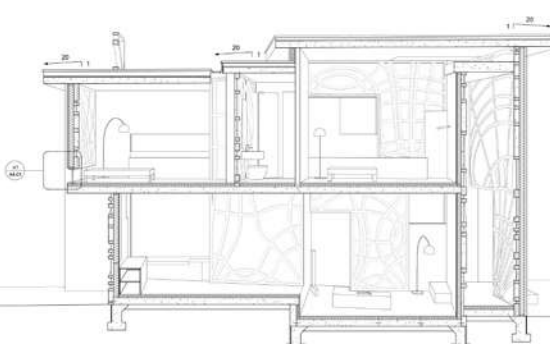
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



1 Section
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A3.01

koolhouse
ARCH 5101 - PBI

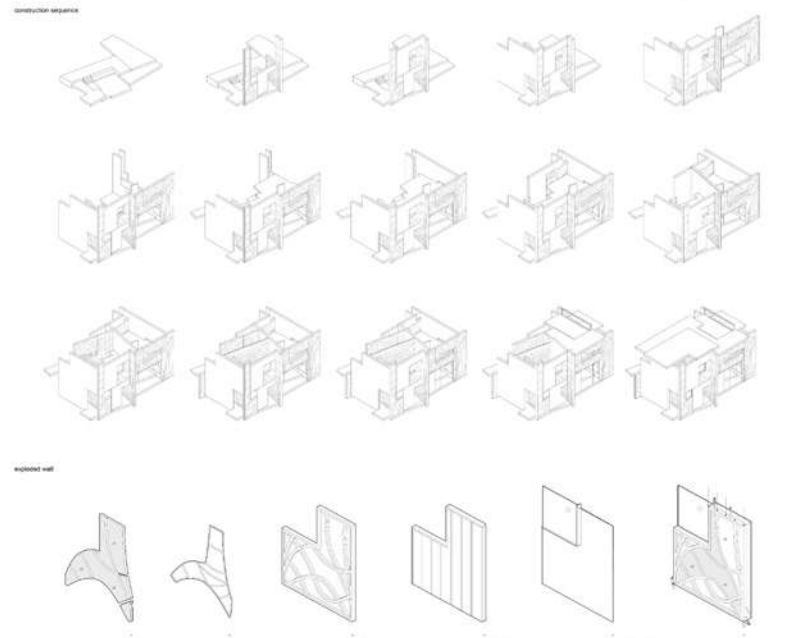
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



2 Section
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A3.02

koolhouse
ARCH 5101 - PBI

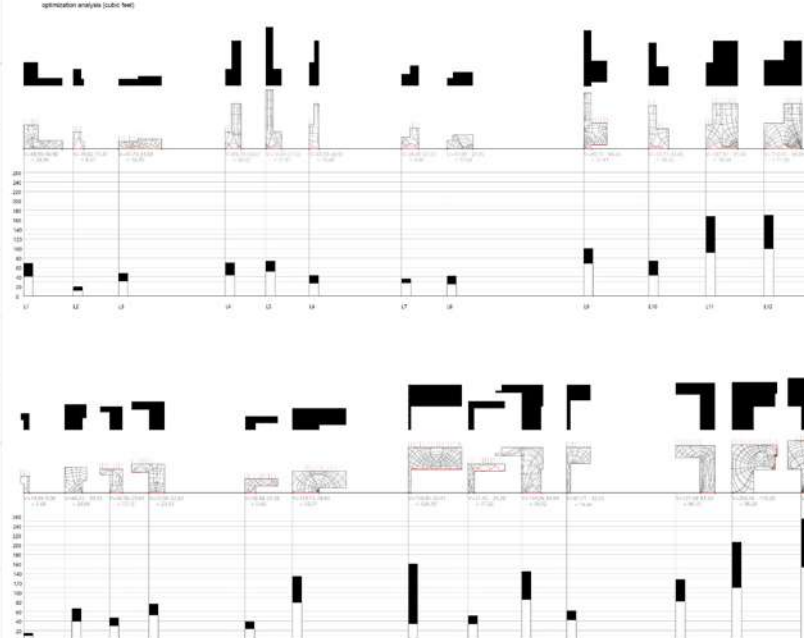
Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape



1 Construction Sequence
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A6.02

koolhouse
ARCH 5101 - PBI

Client: G. Chen
Architect: PBI
Scale: 1/8" = 1'-0"
Level: Section
Landscape: Landscape

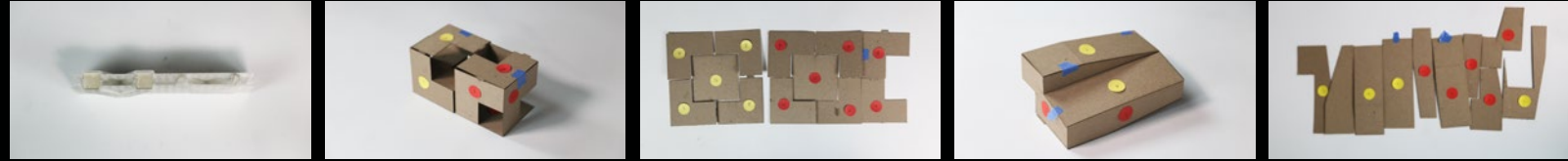


1 Optimization Analysis
17 White Plains Ln, West, NY, 14550
ARCH 5101 - PBI
A6.03

Specificity



Initial wall studies specific to concrete and 3d printing



Printing on site as a form-finding constraint

Method



CNC preparation

Base casting

Secondary selective casting

Assembly



View from the interior

Prototype



"Daedalus" printing

Left to cure

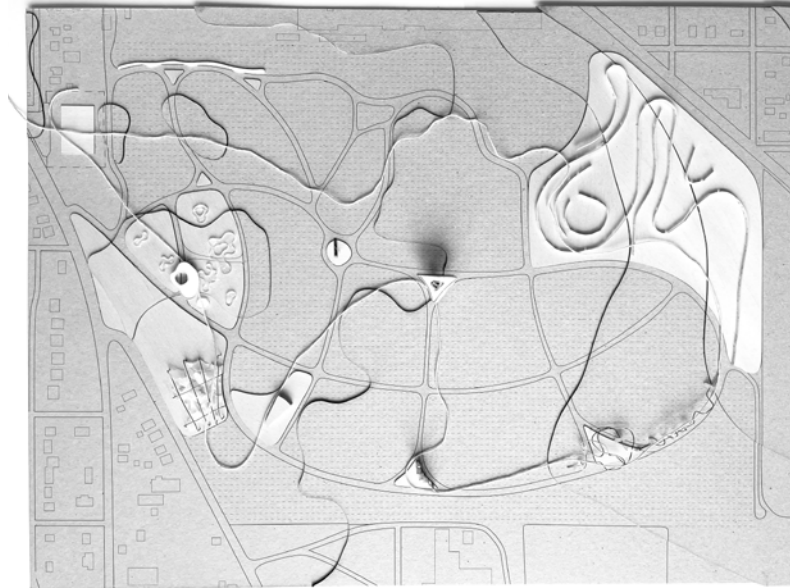
Base and secondary casting

3. A Line Gone Awry

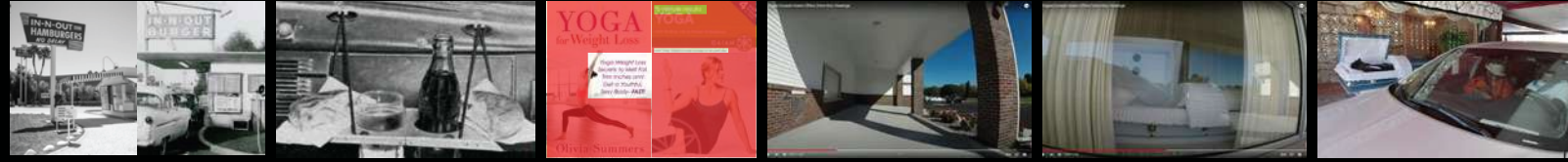
Working at the crossroad between the prosaic (the car) and the sacred (funeral rituals), this thesis proposes to meaningfully elongate the funeral Drive-Thru at Paradise Funeral Chapel in Saginaw, Michigan.

Through introducing a series of sensorial disruptions to an otherwise indifferent path of travel that wraps around the existing funeral home, the thesis explores the possibility of the automobile sublime in the hope of holding better space for a slower goodbye.

Professor: Andrea Simitch, Leslie Lok



Condition



From fast food

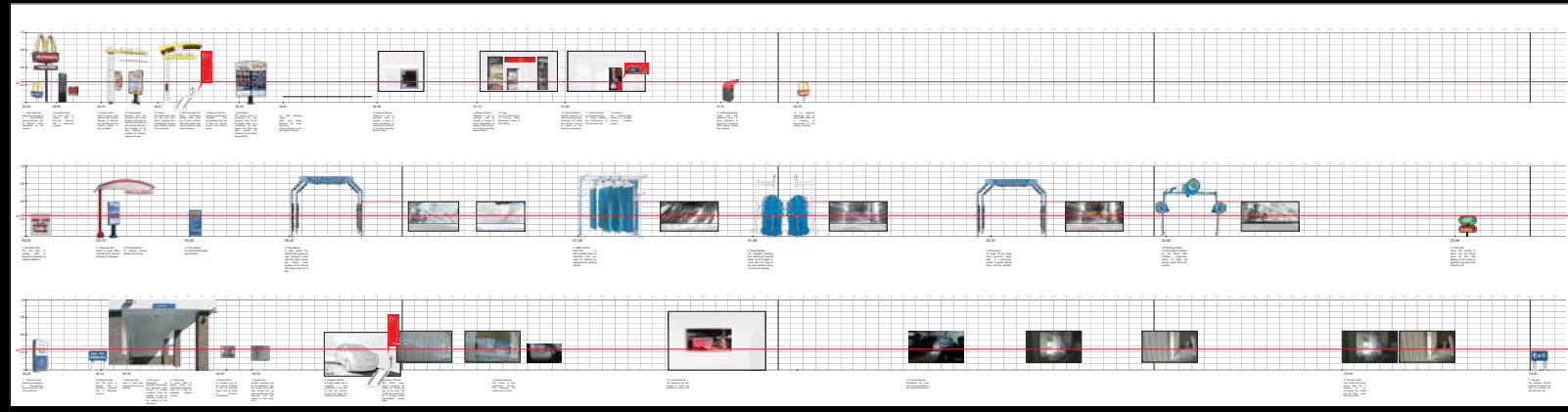
to speed yoga

to drive-thru funerals



Reasons and some locations

Critique



McDonald Drive-thru, 00:02:03
 Car wash Drive-thru, 00:03:48
 Funeral Drive-thru, 00:04:00

Analysis

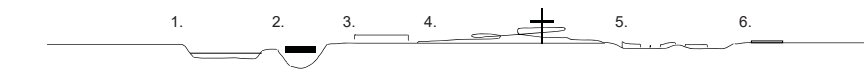
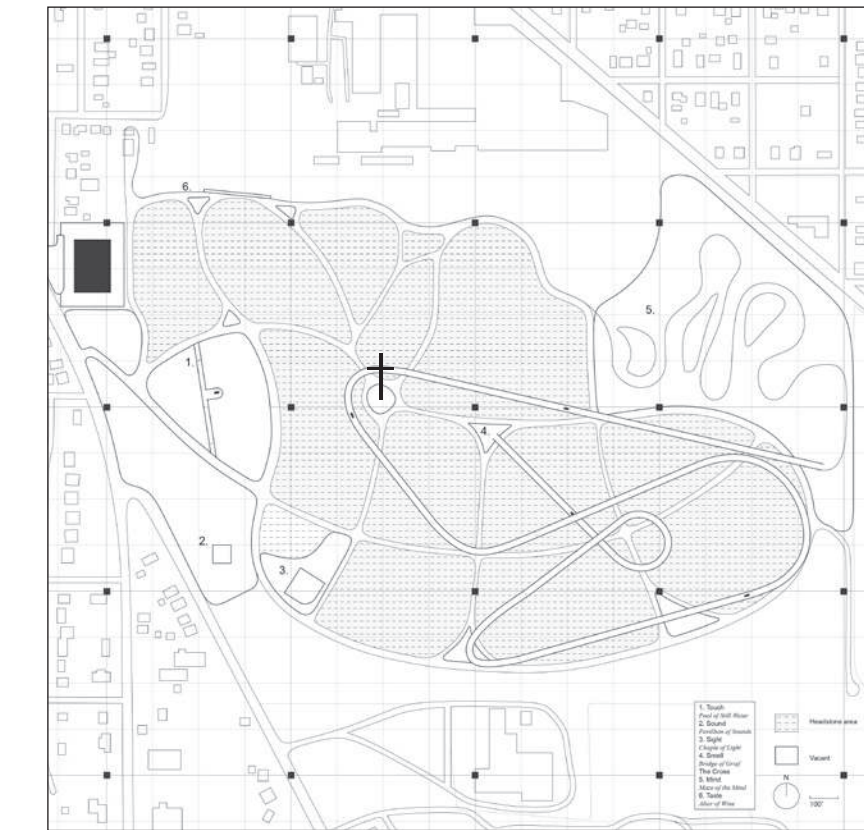
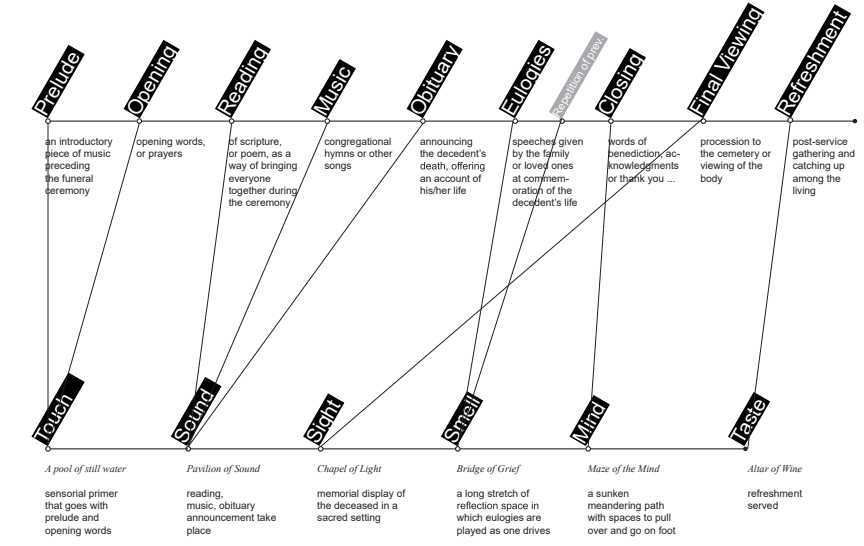


Automobile: 01_visual: driver visibility, turning radius

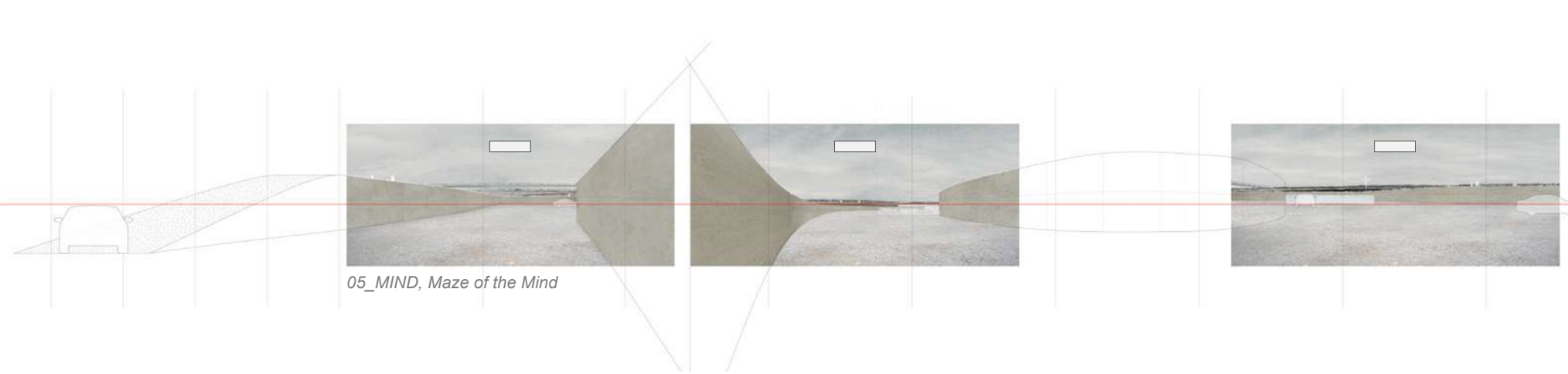
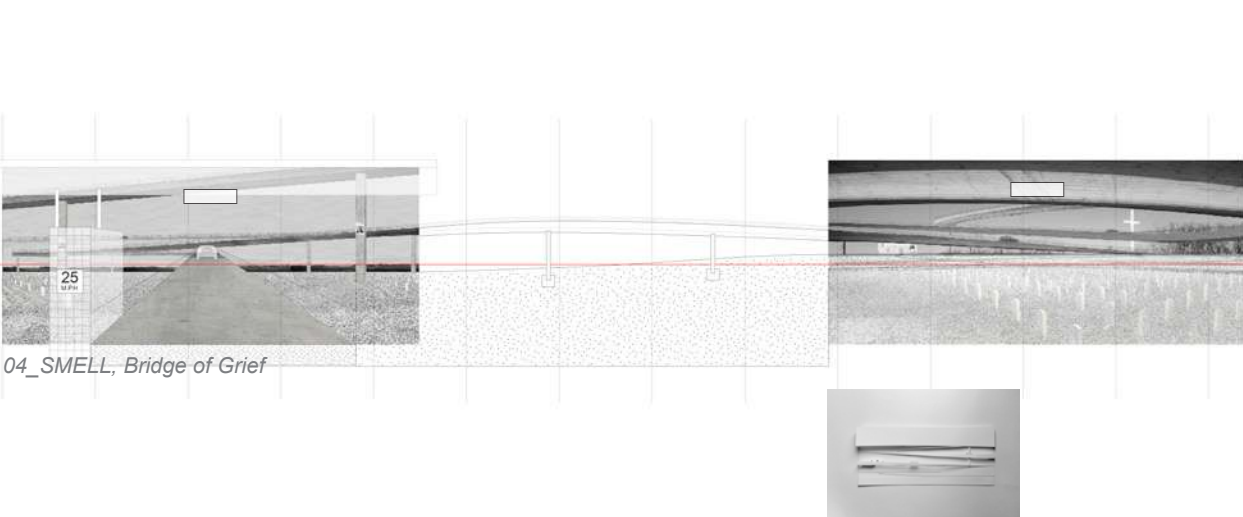
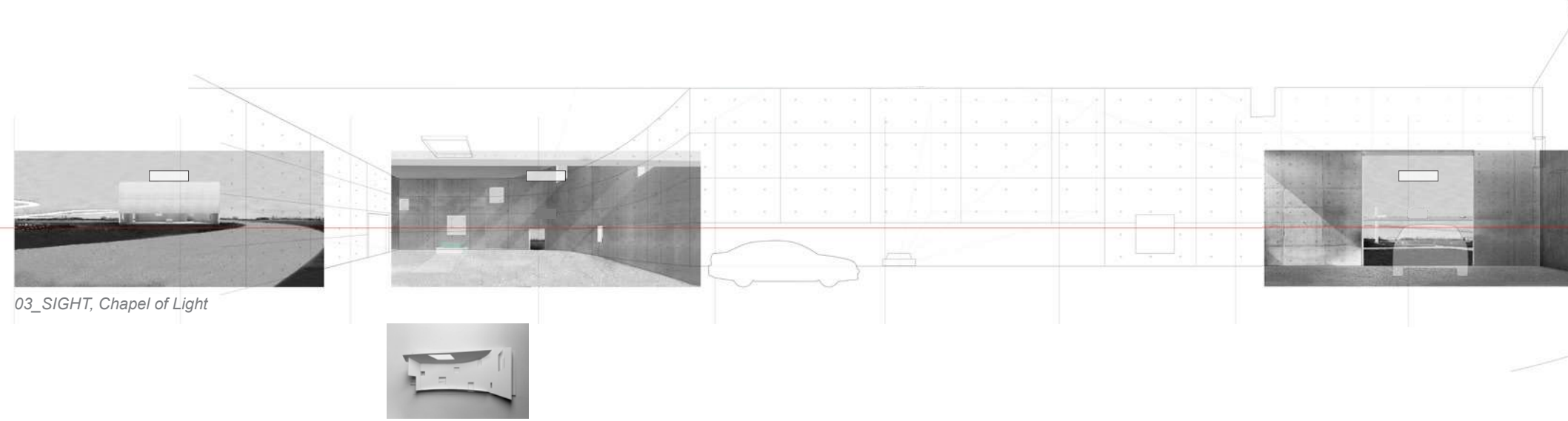
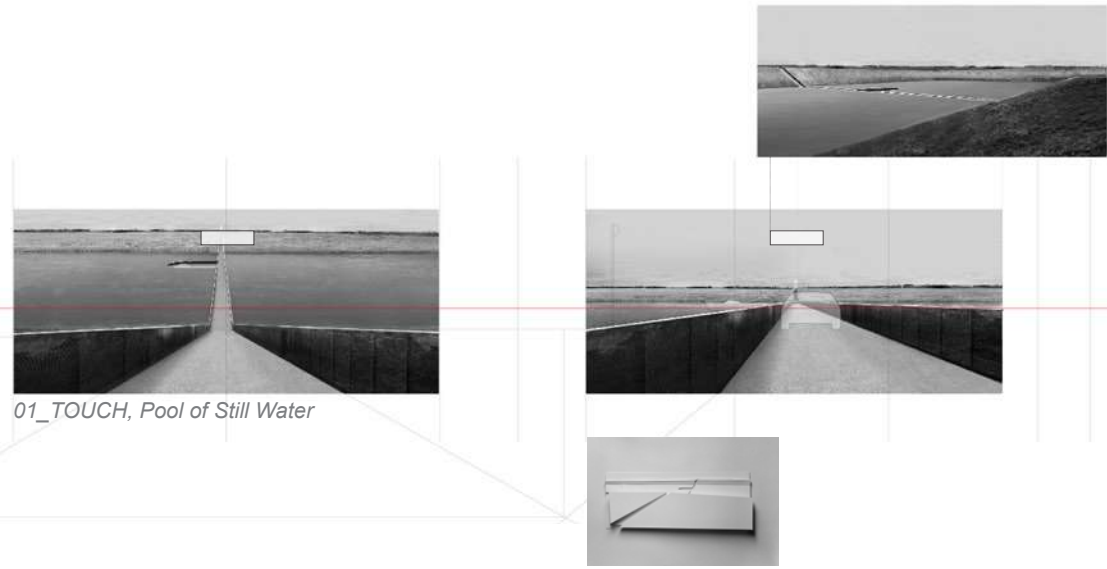
02_experimental: car wash, traffic calming strategies

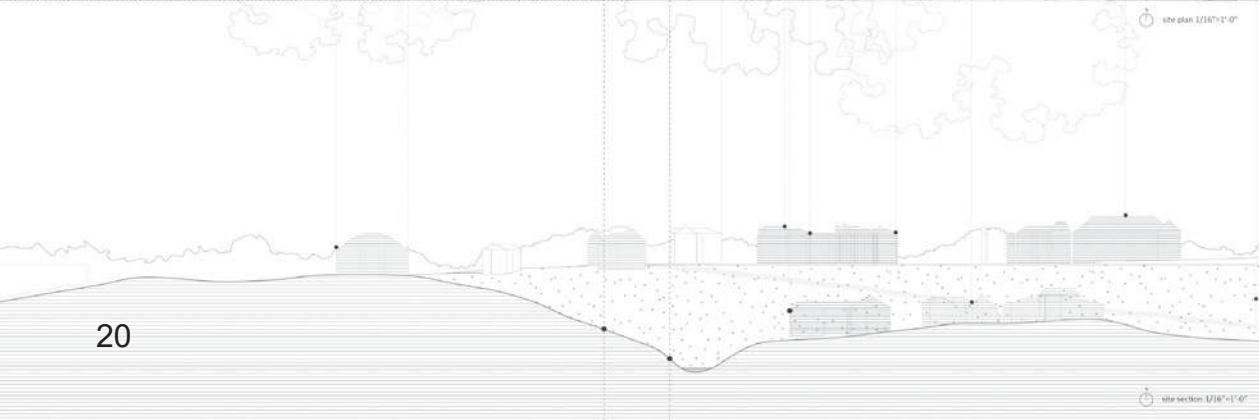
Funeral: 01_Service

02_Funeral home layout



6 Interventions

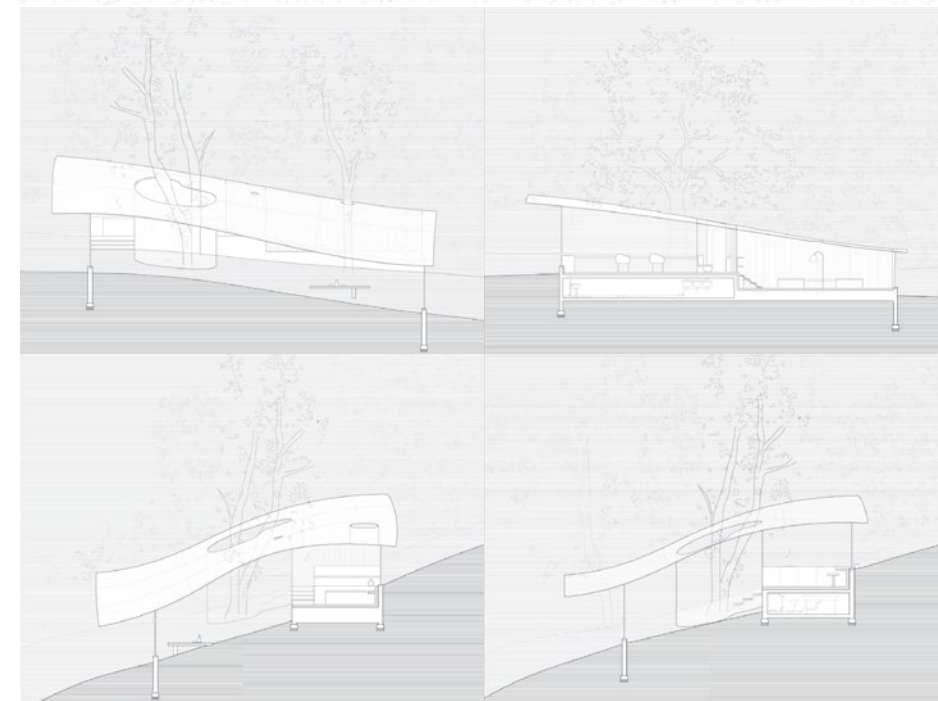
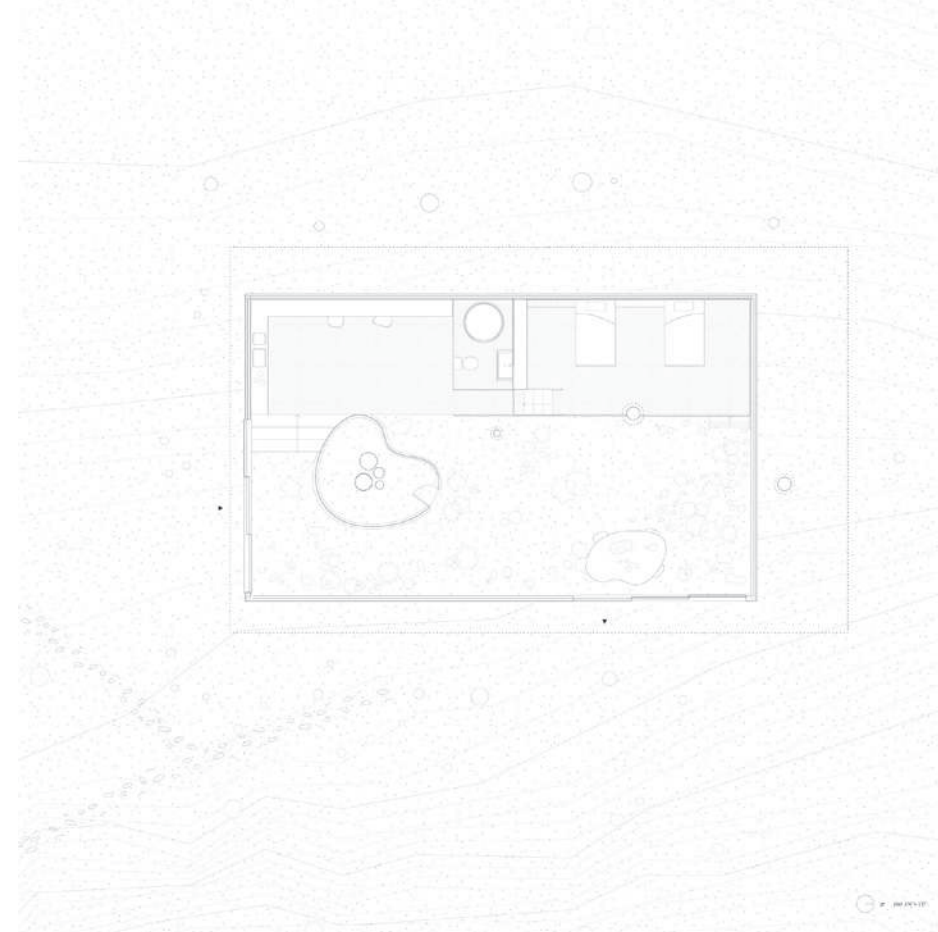


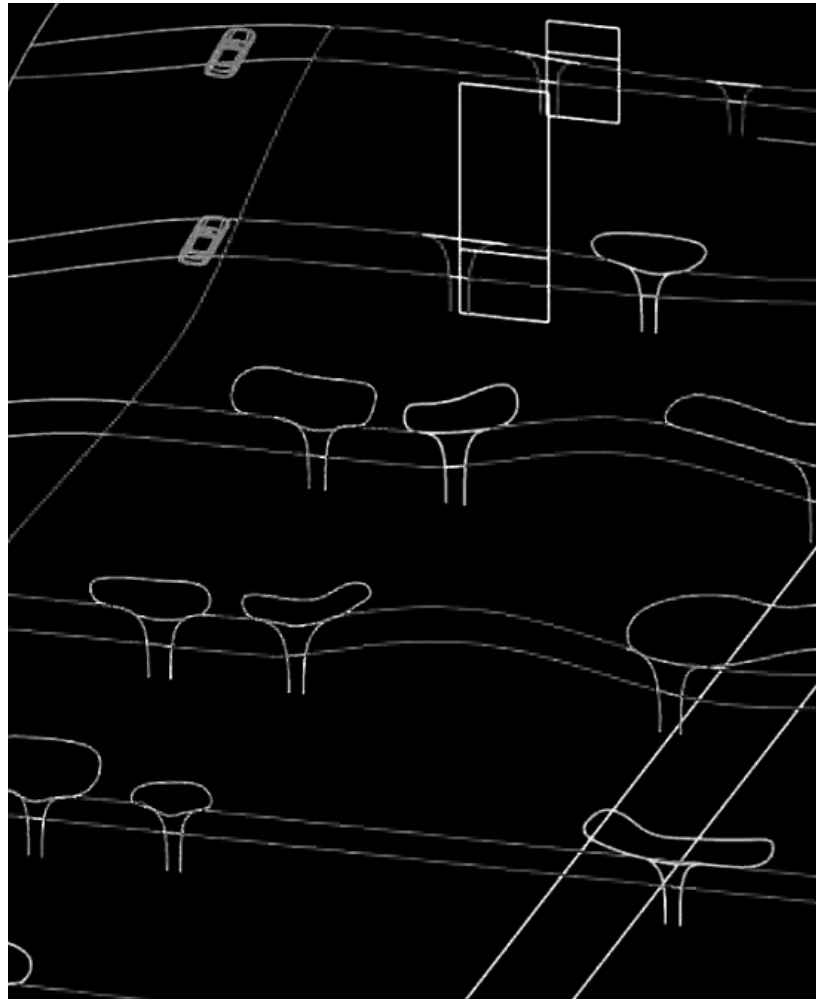


5. House with Roof

Located on a heavily wooded hillside overlooking Beebe Lake, the house is defined by a curved roof that follows the profile of the slope. Strategically punctuated at three places to best preserve the existing trees, the roof spans over a simple kitchen, a bath, a two-person bedroom and an earthen floor to the east, all of which could be divided into its own space by a set of curtain walls if need be.

Professor : Florian Sauter





4. PANCAKE XL

In this project, my partner Oyin and I propose an undulating rib structure topped by a unifying roof for our prompt to create a hybridity center in New Orleans. Taking Le Fresnoy as our precedent, we apply further interactive strategies such as blending, bubbling and popping to mix all the programmatic ingredients of the urban scene together, and help the architecture relate to the site by dripping onto the streets as well as the Duncan plaza nearby.

Professor: Aleksandr Mergold



Precedent



Le Fresnoy - Bernard Tschumi Architects

Extraction



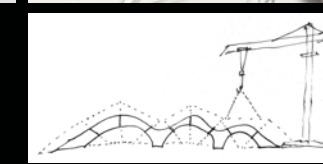
Single roof + skylight

Sectional porosity

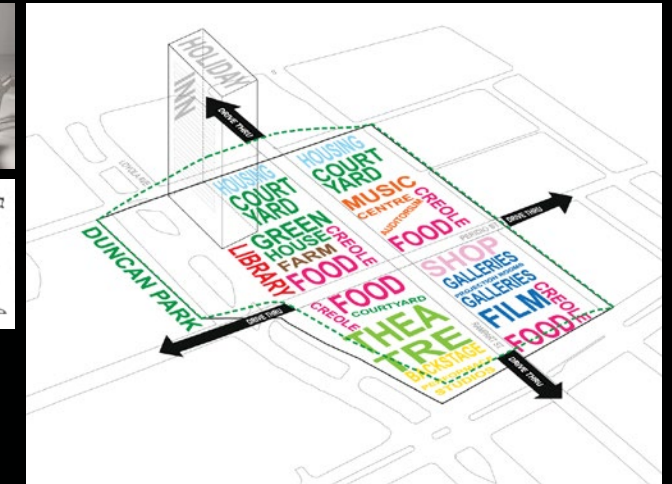
Proposal



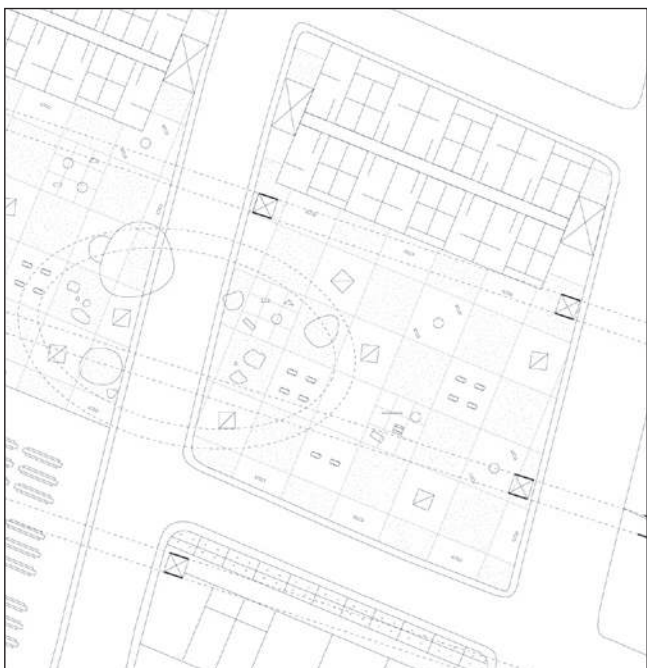
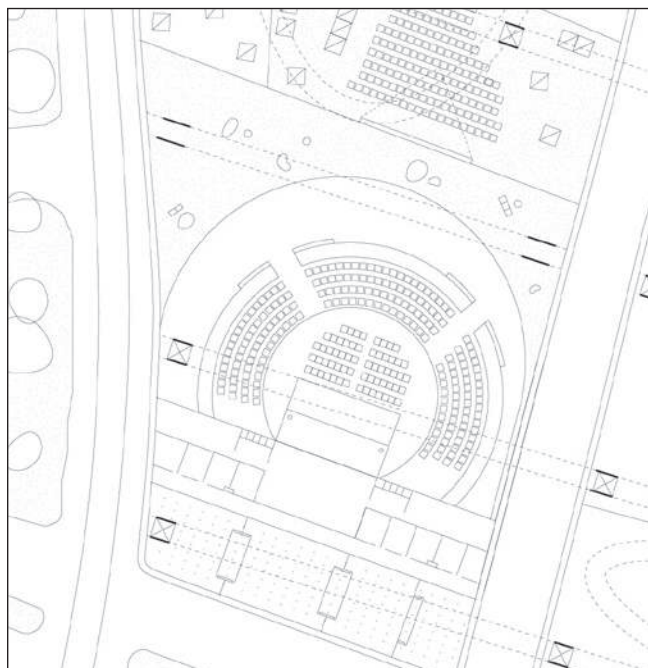
Study model



Structural ribs



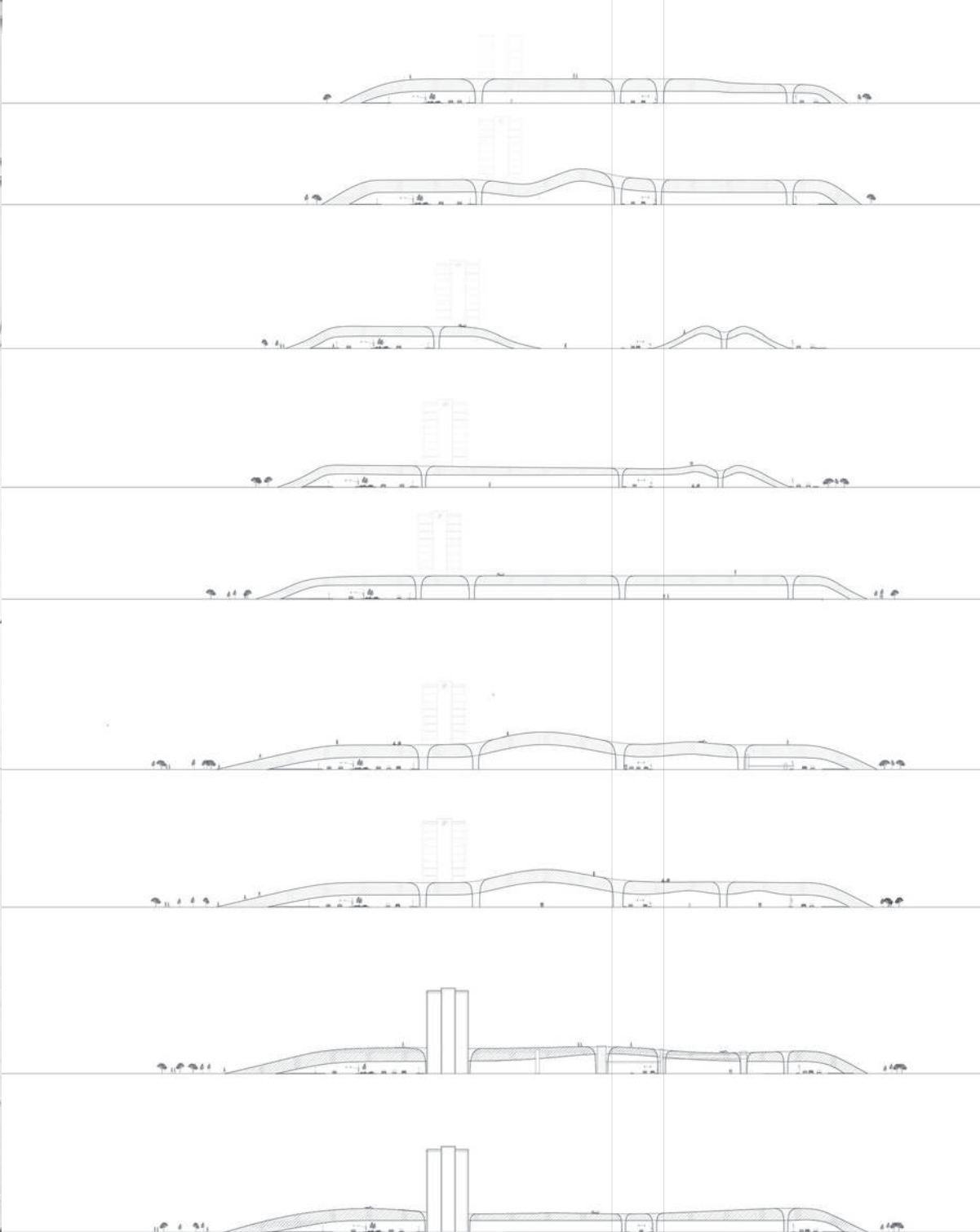
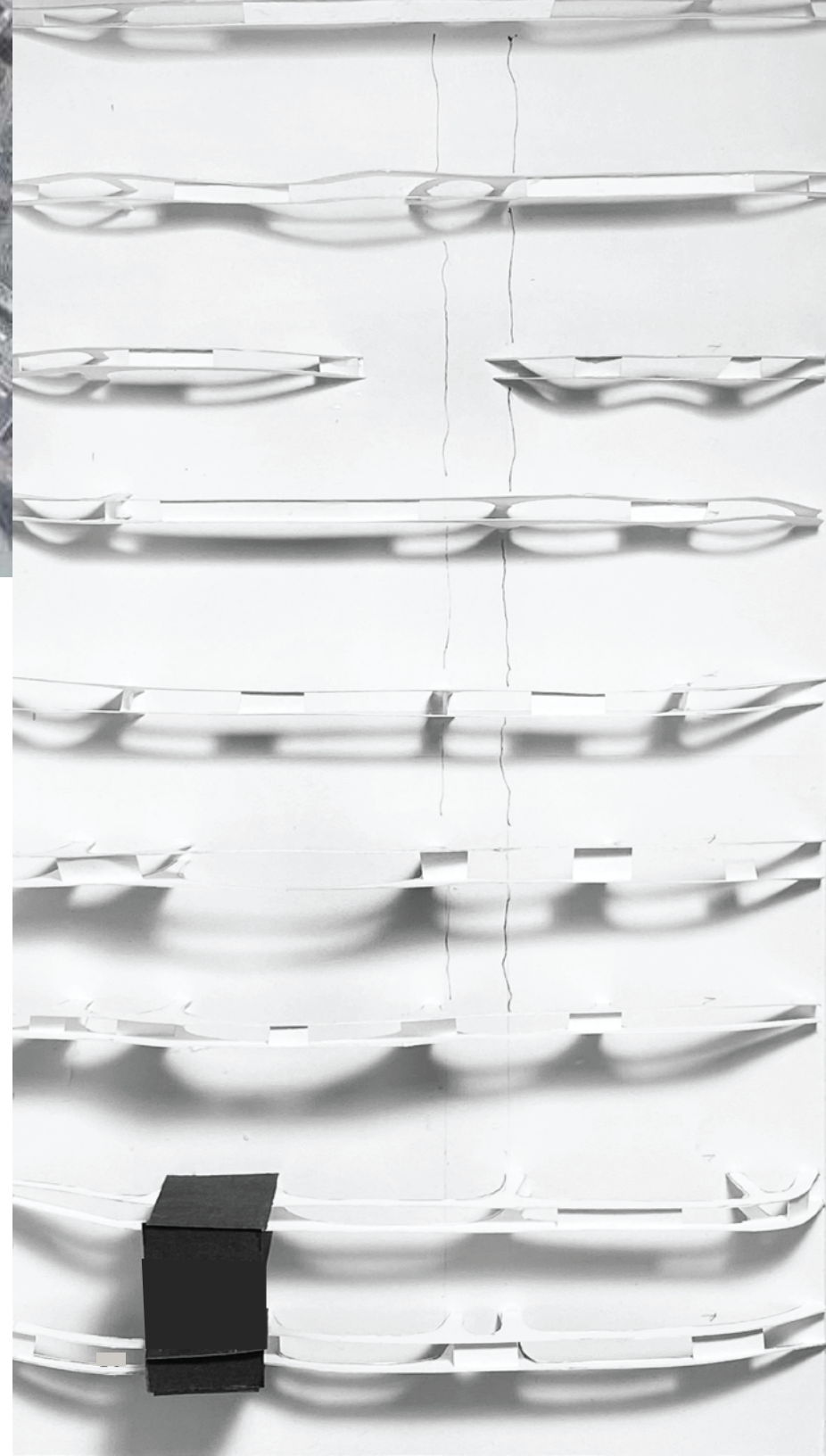
Programming

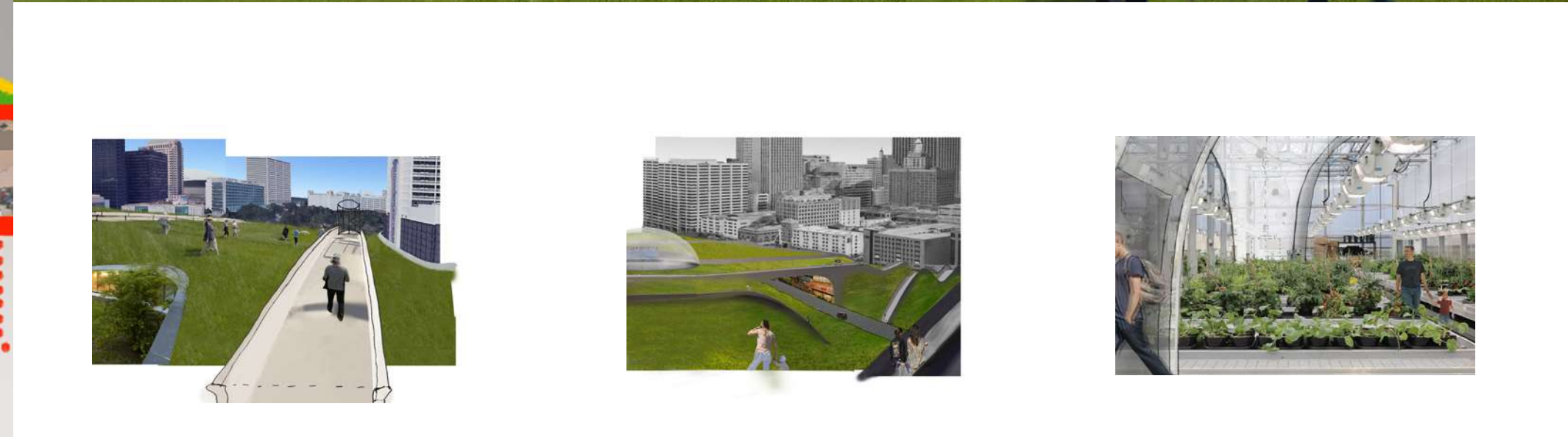
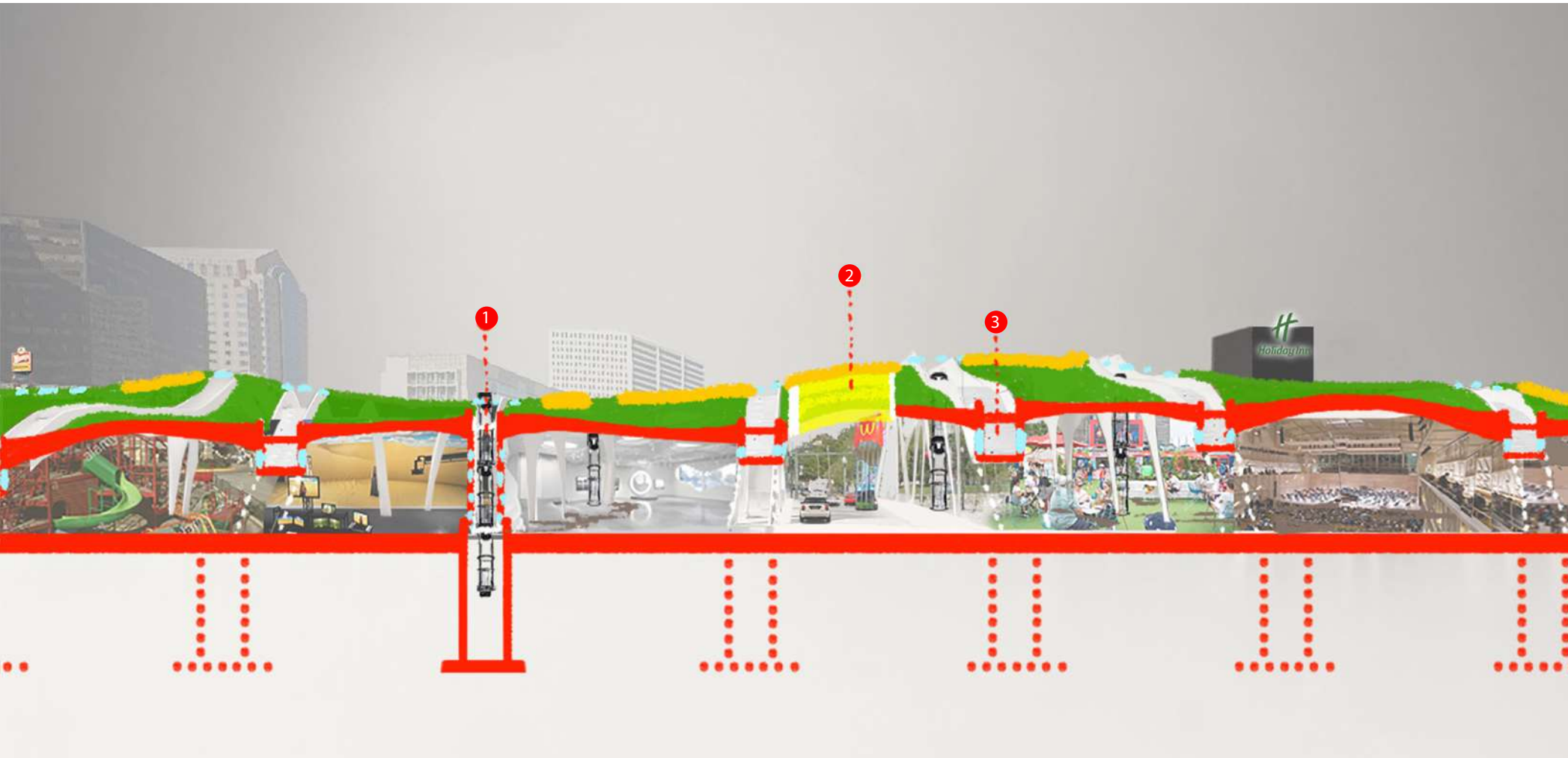
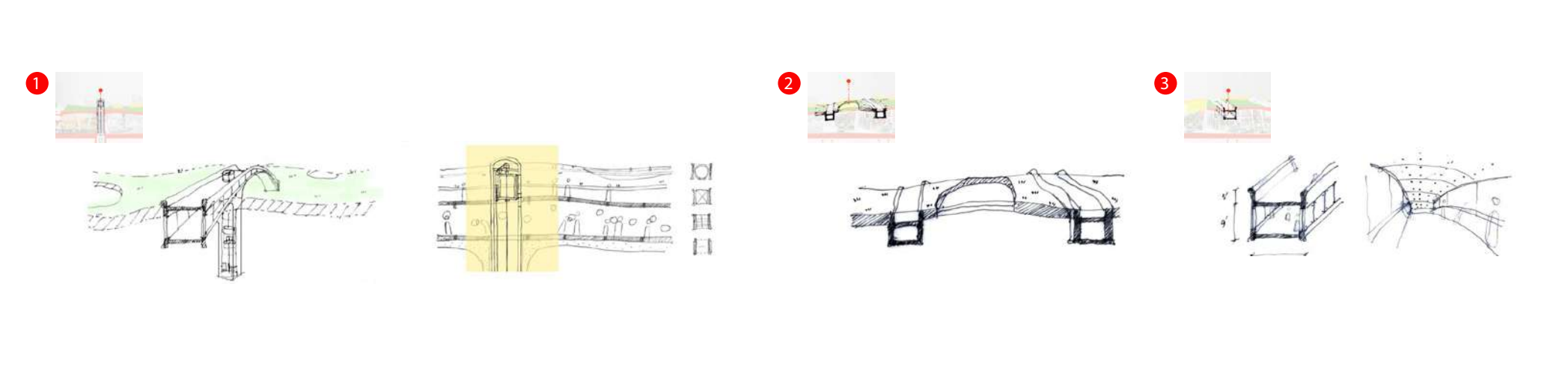


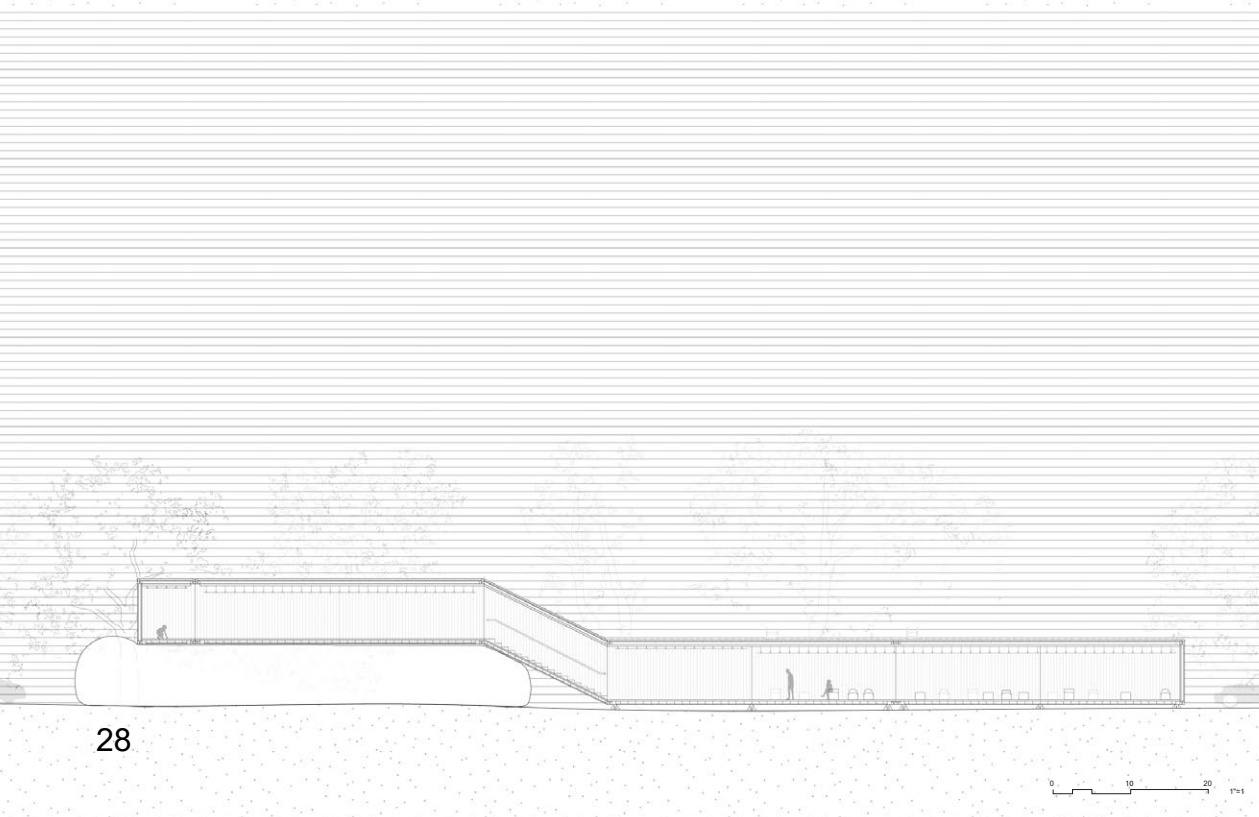
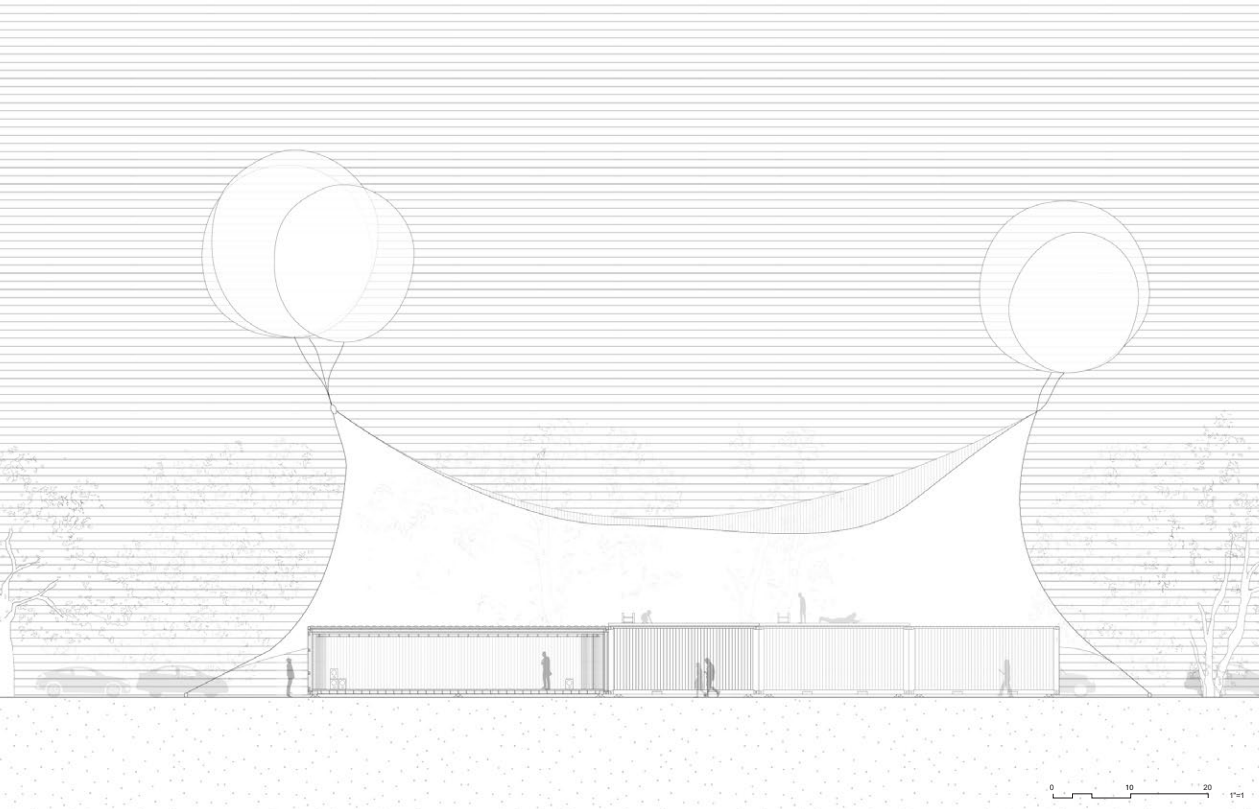
Auditorium
24

Housing + courtyard

Creole foodcourt







6. The-naughty-caterpillar theater

Made from upcycled shipping containers, the naughty caterpillar is an itinerant creature that is constantly on the move, occasionally stopping at temporary destinations for carnivalesque purposes. On finer days, a couple of inflatable friends join the show to keep him company while adding more excitement to the scene.

Professor: Aleksandr Mergold

