

ARCHITECTURE + DESIGN PORTFOLIO

Kimberly Shoemaker



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EDUCATION

University of Pennsylvania
School of Design

M. Arch Candidate

Class of 2020

University of Pittsburgh

B.A. Architectural Studies

Minor in Studio Arts

Class of 2016

AWARDS

Will Morris Mehlhorn Prize Fund
2019

Albert Kahn Scholarship
2016-20

Steele William Grey Scholarship
2016-20

A.J. Schneider Award
2016

REES Study Abroad Scholarship
2014

EXPERIENCE

SOFTlab

34 W 27th St. New York City, NY

Design Intern, 2019

Production of installation pieces, detail modeling/
drawing/assembly, site installations, production file
preparation

Canno Design

109 S 13th St. Philadelphia, PA

Architecture Intern, 2018

Revit drawings + modeling, rendering, Autocad drafting,
site surveys, marketing materials, permit drawings,
material sample boards, custom furniture design

AE7

2840 Liberty Ave. Pittsburgh, PA

Architecture Intern, 2016

Revit drawings + modeling, post processing diagrams,
coordinate with Dubai office location, site surveys,
branding for local proposals, collaborate with landscape
architects

Celli-Flynn Brennan Architects

606 Liberty Ave. Pittsburgh, PA

Architecture Intern, 2015

Revit drawings + modeling, Autocad drafting, publish
project proposals, site surveys, material sample boards,
complete + edit Change Orders + RFIs

AFFILIATIONS

PennDesign Teaching Assistant

2019-2020

Visual Studies II with Nate Hume, Kutan Ayata, Brian DeLuna

Visual Studies III with Nate Hume, Kutan Ayata, Brian DeLuna

Visual Literacy and Its Culture with Kutan Ayata

PennDesign Pressing Matters Publication

featured work in Pressing Matters 8

PennDesign Women in Architecture

member 2018 - 20

Social Media + Marketing Co Chair 2019-20

American Institute of Architecture Students

chapter president 2014-15

reinstated Pitt chapter 2014

sophomore representative 2013

freshmen representative 2012

DIGITAL SKILLS

Adobe Creative Suite

Autocad

Autodesk Maya

Autodesk Revit

Grasshopper

Keyshot

Maxwell Render

Python

SketchUp

V Ray Rendering

Z Brush

PHYSICAL SKILLS

3D Printing

CNC Routing

Concrete Casting

Etching/Engraving

Laser Cutting

Metal Working

Printmaking

Plaster Casting

Wood Working

EXHIBITIONS

PennDesign Year End Show (2019)

602 Studio Model

University of Pennsylvania School of Design

Personal Design Portfolio (2015, 2016)

Univ. of Pittsburgh Art + Architecture Yearly Exhibition

Frick Fine Arts Building

Checked Out (2016)

duct tape, reflective vinyl, digital video

Frick Fine Arts Building

Broken Glances (2015)

steel sheets

Frick Fine Arts Building

Approach (2015)

plywood, plastic tubing

Frick Fine Arts Building

Unraveled (2015)

plaster, fabric, paper

Frick Fine Arts Building



ARCHITECTURE STUDIO PROJECTS

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01 LAMINATED FOLLIES

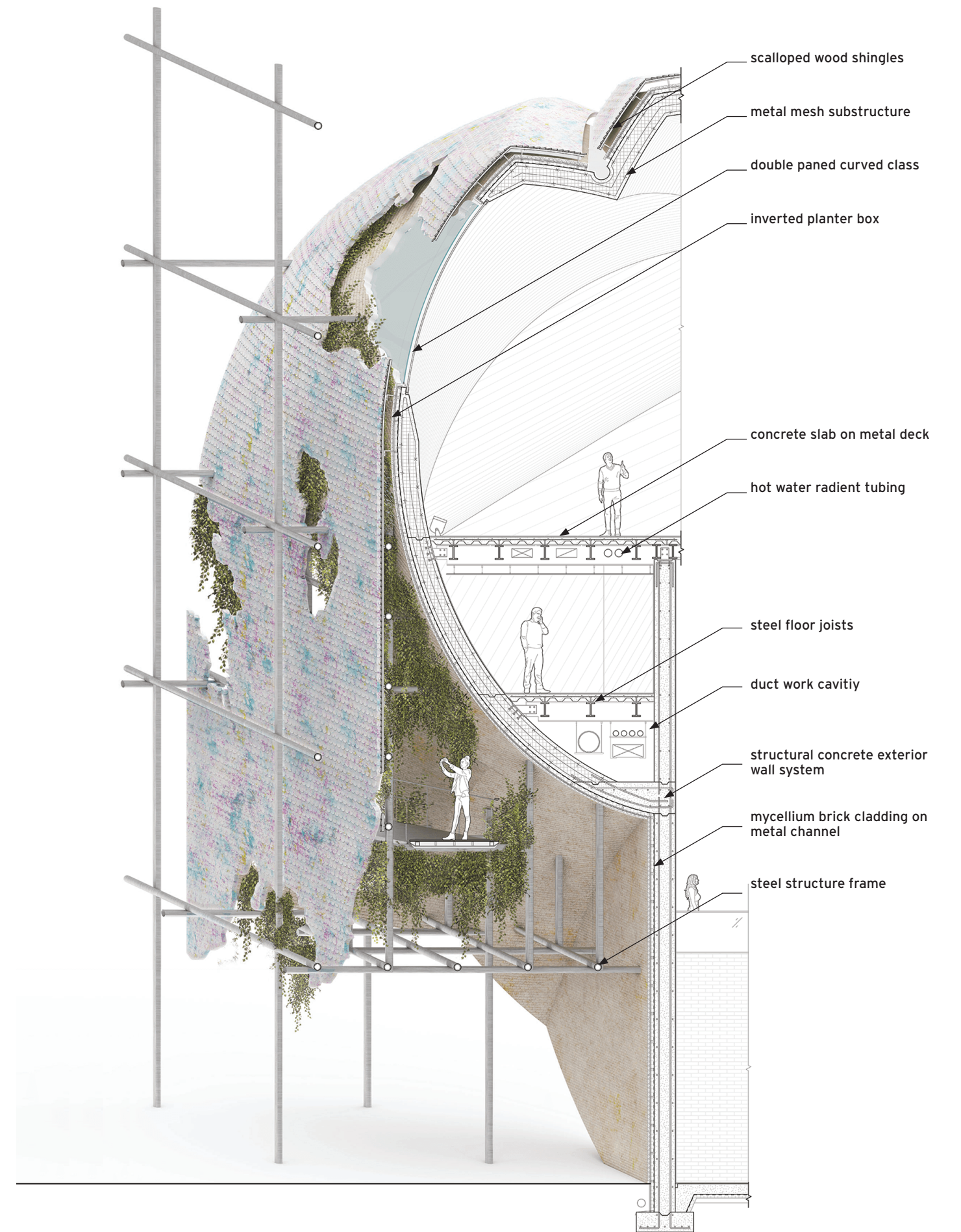
Instructor: Nate Hume // Partner: Ryan Henriksen // University of Pennsylvania // Spring 2019

This project aims to use a layering of multiples to blur the boundaries of spatial configurations and interrogate new manipulations of threshold conditions. Multiples, which manifest themselves as interior forms, programmatic spaces, envelope overlays, material applications, and structural systems, act both formally independent and functionally dependent on one another. Overlaid, these systems of multiple autonomies blur perceptions of the whole by generating continual glimpses through and between; breaking down spatial familiarities and introducing new in-between environments. The program, dedicated to the research and harvesting of mushrooms, generates new spatial ecologies made up of transformative environments based on different cultivated lifespans. Various methods of harvesting form independent systems while maintaining a dependent cycle of growth, harvest and production.

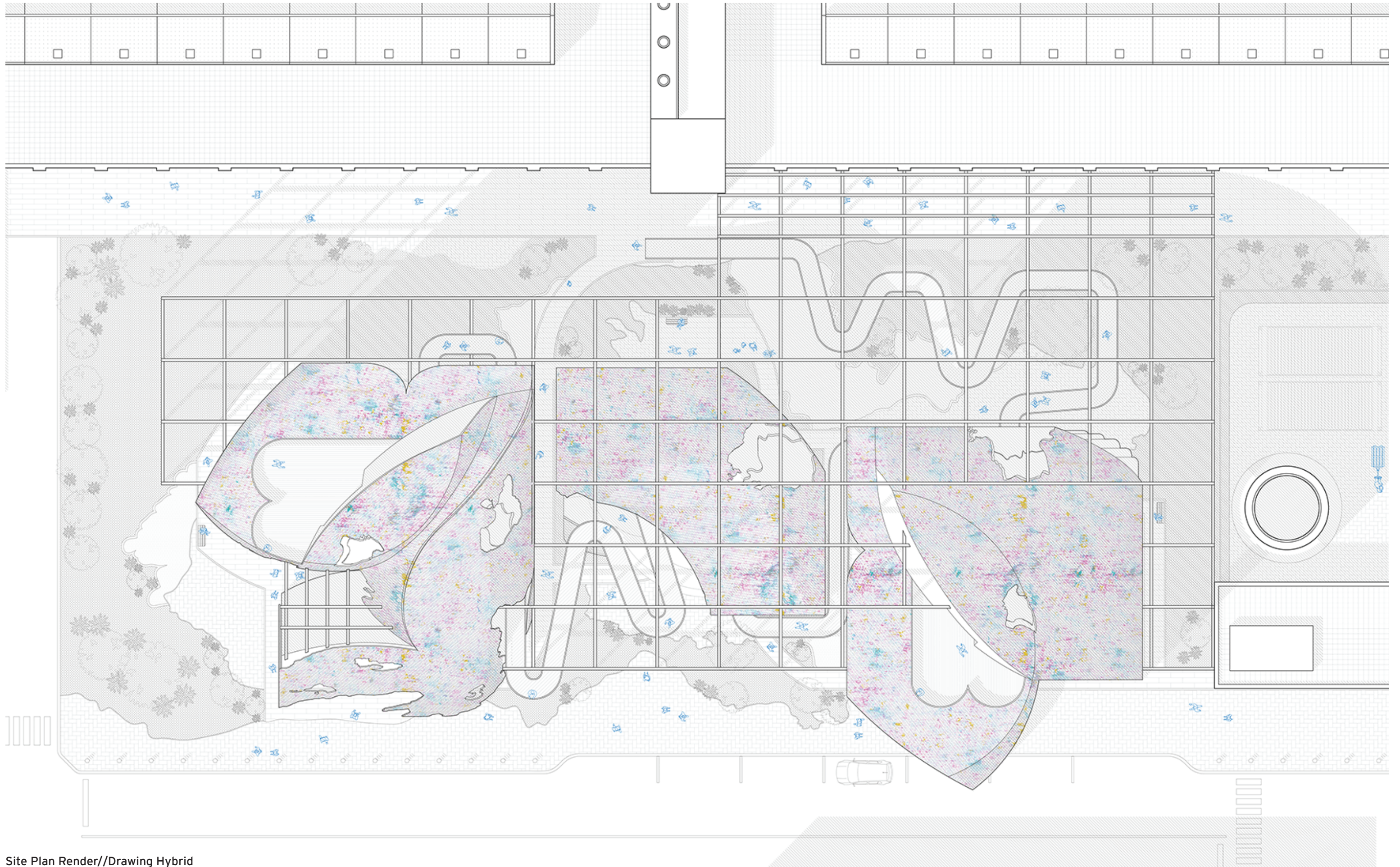




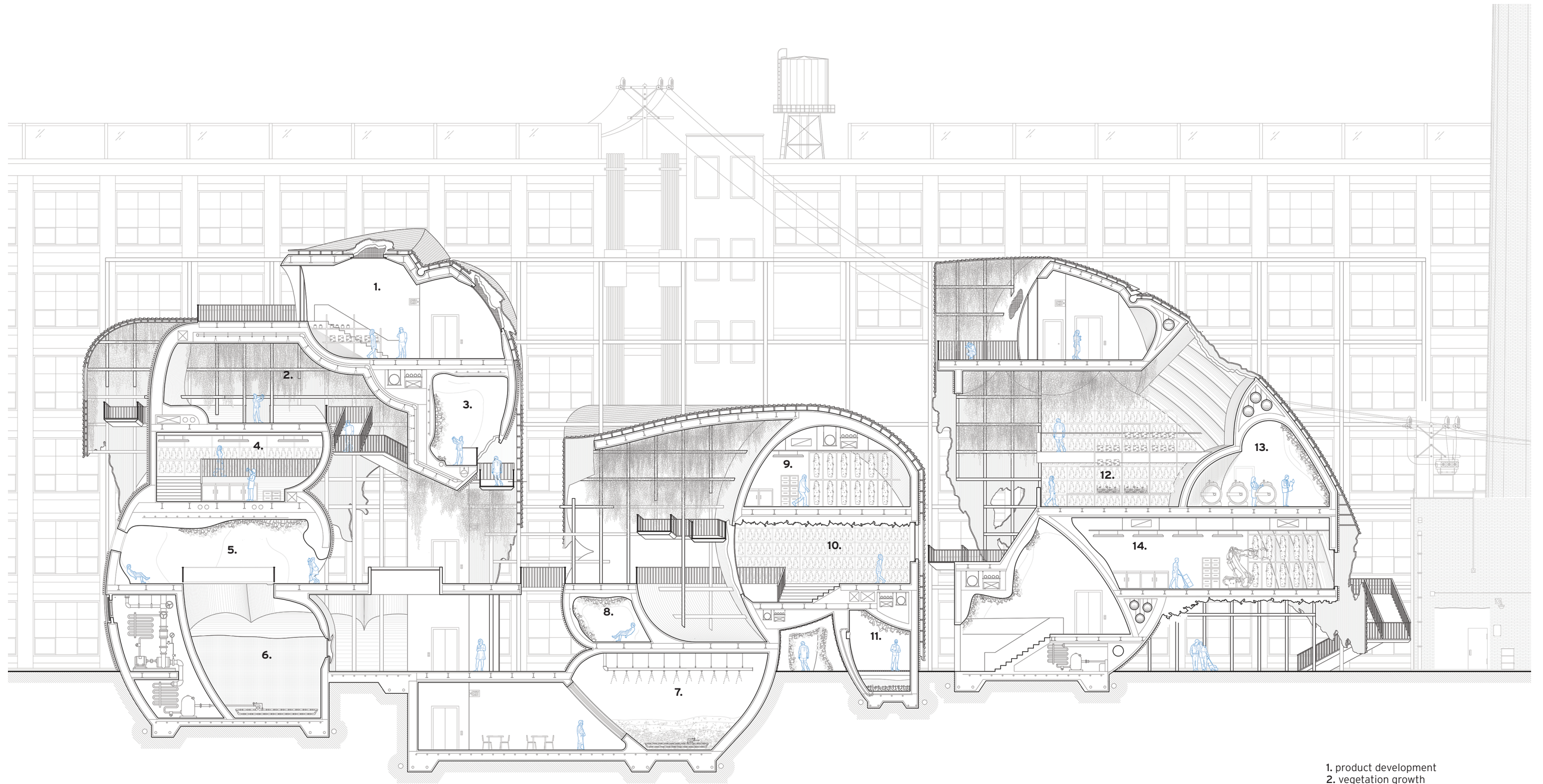
Model Photo



Wall Detail Section



Site Plan Render//Drawing Hybrid



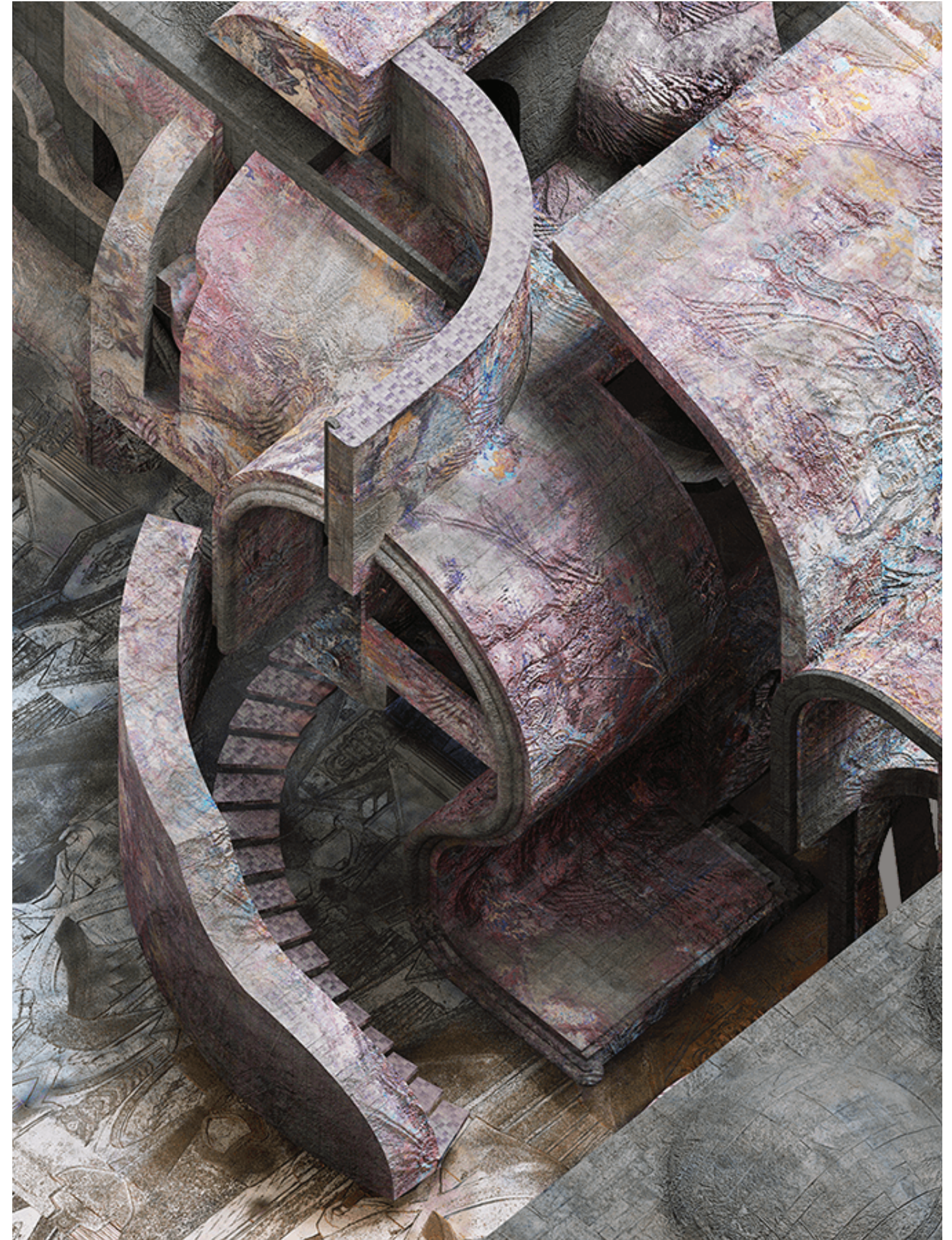
- 1. product development
- 2. vegetation growth
- 3. mushroom cave growth
- 4. mycellium harvesting research
- 5. mushroom grotto
- 6. water collection tank
- 7. composting collection
- 8. mushroom cave growth
- 9. mycellium harvesting research
- 10. mycellium harvesting
- 11. mushroom aqua harvesting
- 12. mycellium harvesting
- 13. sanitation tanks
- 14. harvesting technologies research

Section Facing Southwest

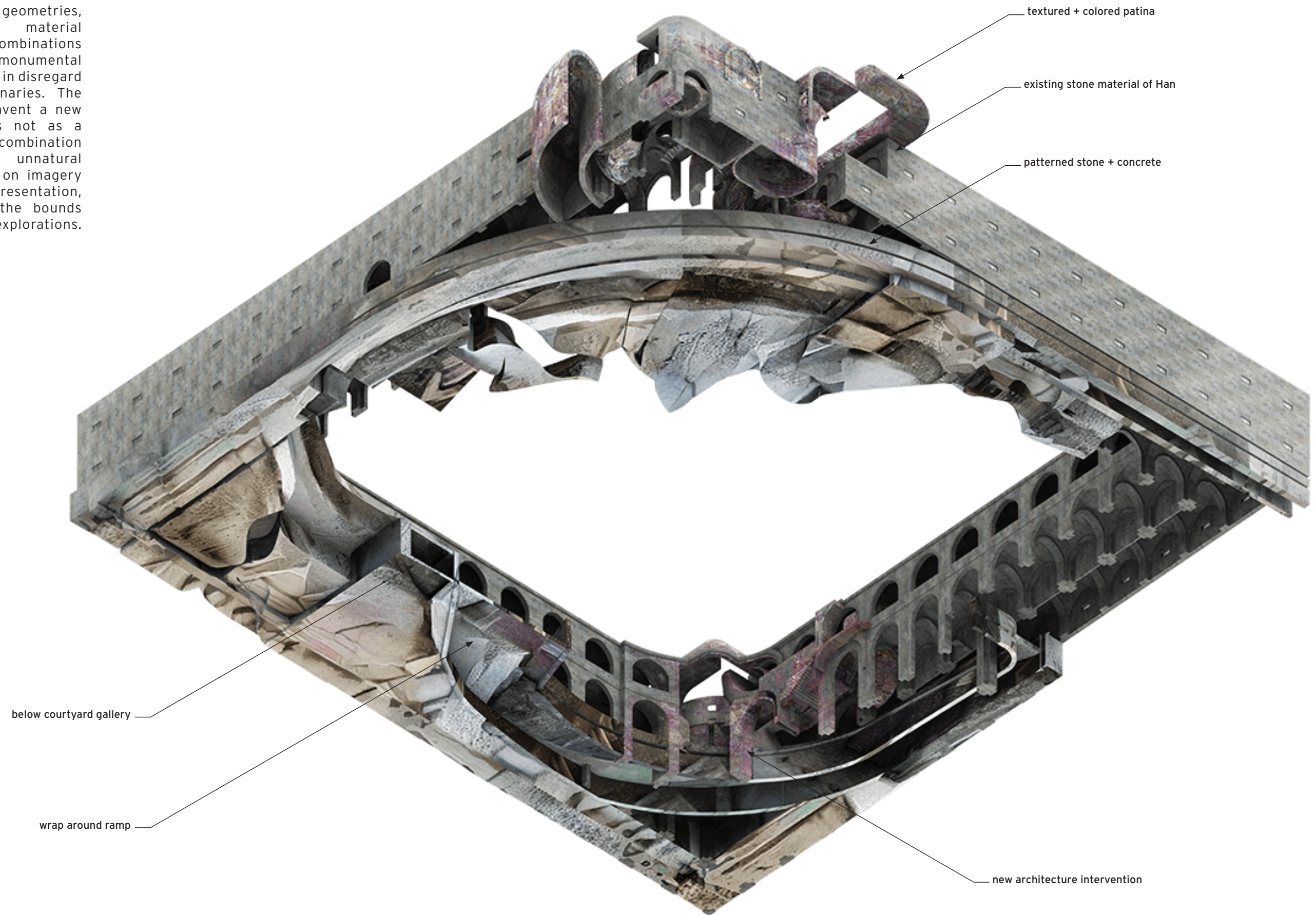
02 BRUTALLY MYSTIC

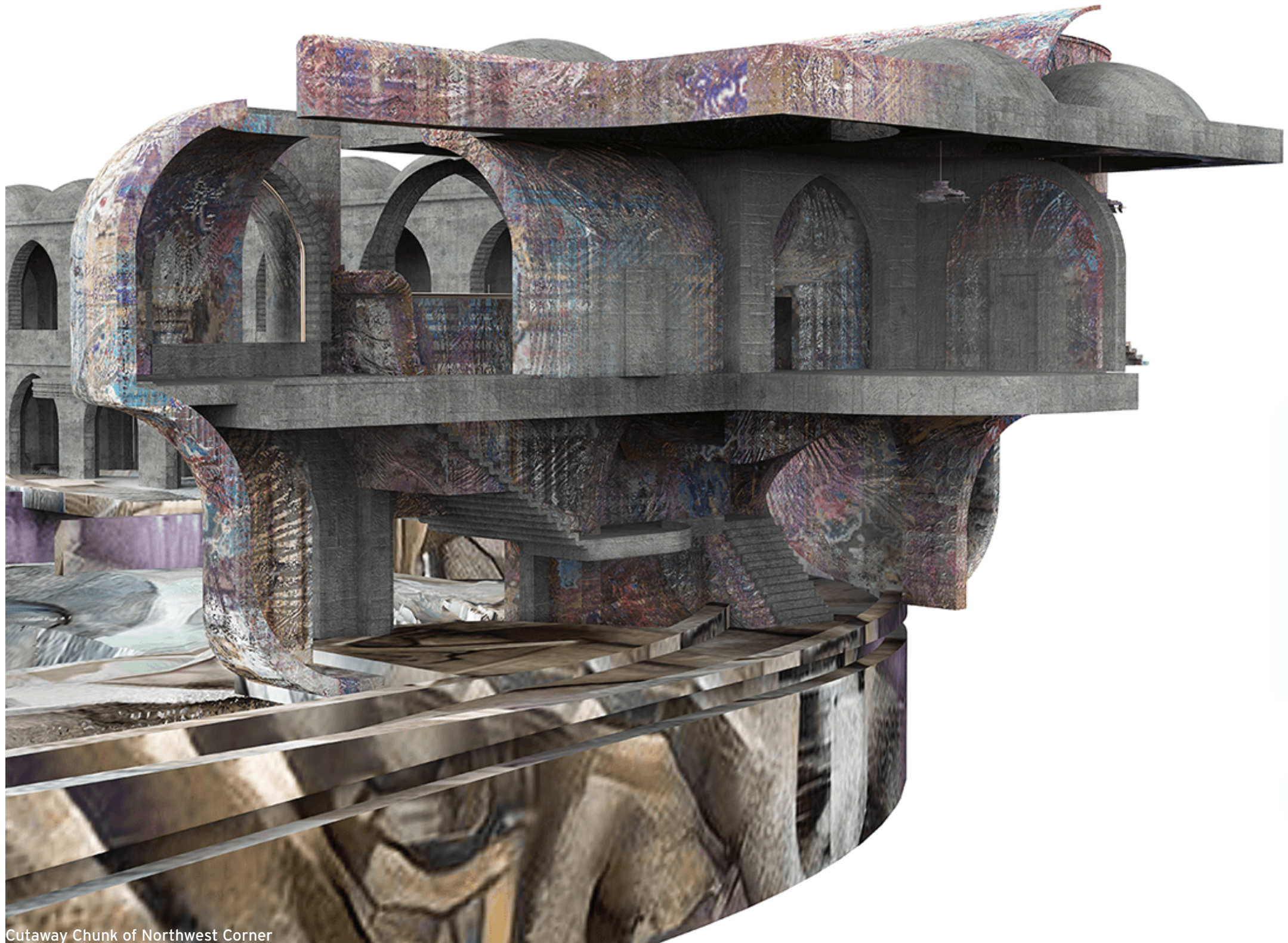
Instructor: Ferda Kolatan // Partner: Ira Kapaj // University of Pennsylvania // Fall 2019

Left to the mercy of time and a fast moving city, the Buyuk Valide Han feels almost removed from the urban context to which it belongs. Brutally Mystic attempts to infuse an urban character and force a new relationship between the Han and a unique architectural experience. A new gallery emerges out of the old courtyard, created by conflicting spatial conditions and material treatments. The new architecture carves its way into the present urban fabric and uses odd combinations of materials, colors, textures, and spatial configurations to produce a mysterious experience of the Han that questions the here and now.

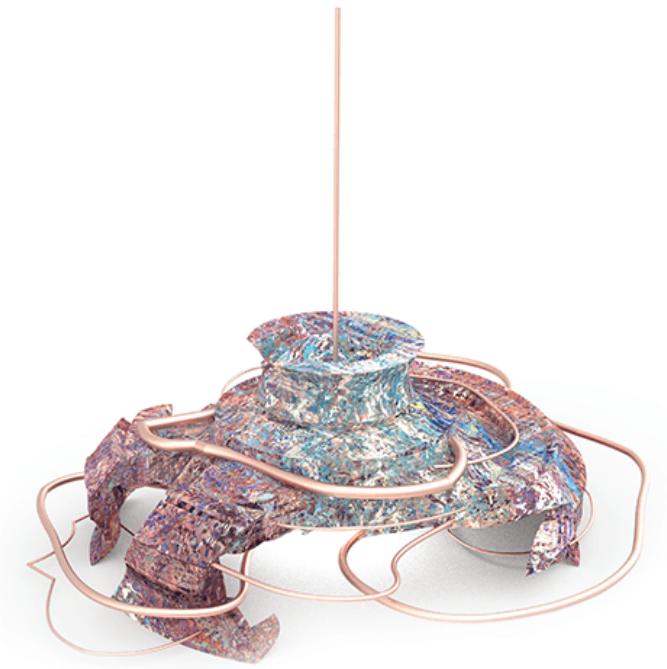


Coherent and incoherent geometries, unusual and familiar material collaborations, enigmatic combinations of functional and purely monumental articulation engage together in disregard of their predetermined binaries. The Han and the courtyard reinvent a new hybrid identity that exists not as a result of a harmonious combination but as a creation of unnatural relationships. By focusing on imagery as the primary means of representation, this allowed for pushing the bounds on formal and material explorations.





Cutaway Chunk of Northwest Corner



New Light Pendant



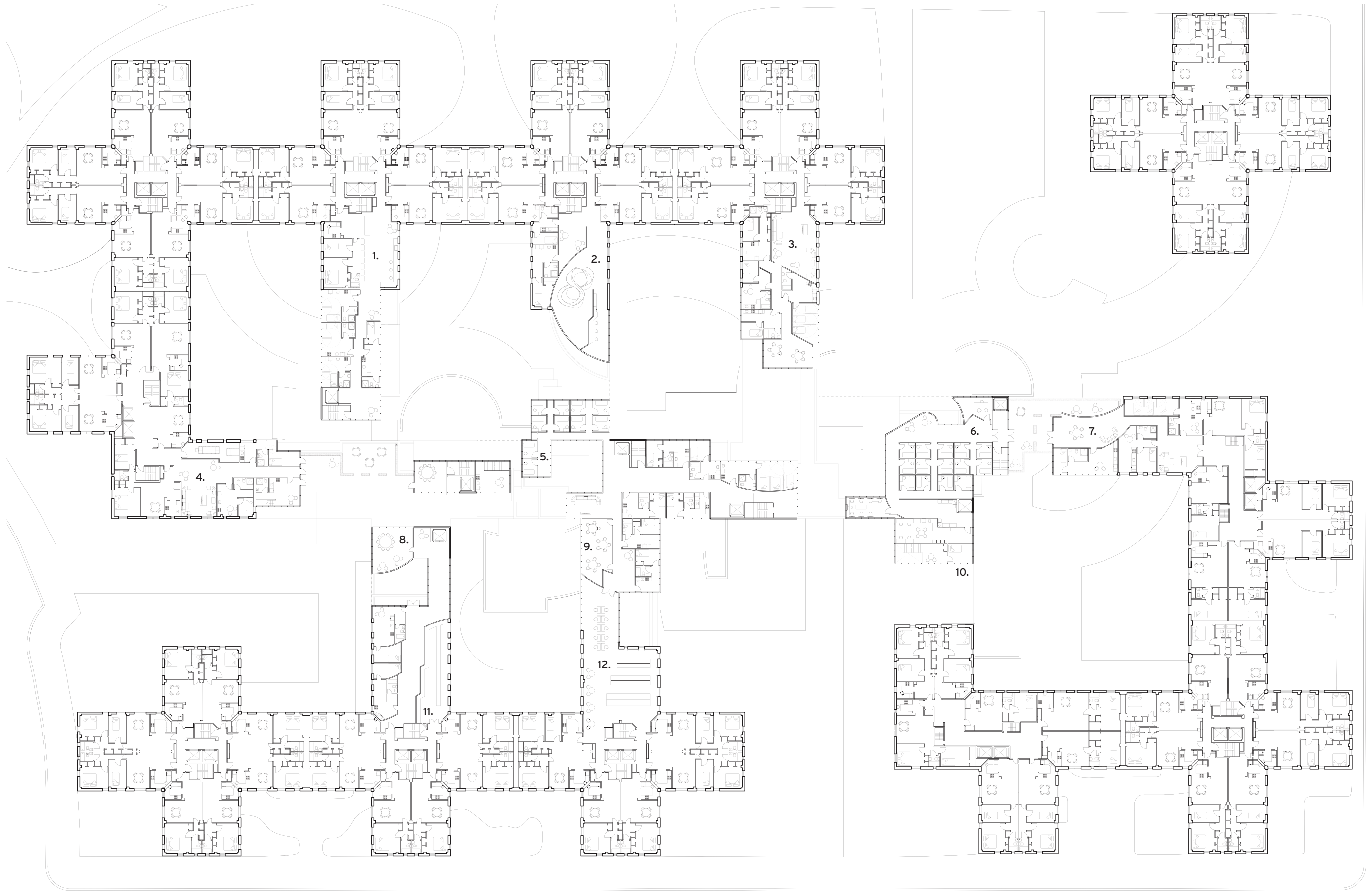
New Fountain

03 ARTIFICIAL MATERIALITY

Instructor: Kutun Ayata // University of Pennsylvania // Fall 2018

With the proposed goal to activate the courtyard between the existing buildings of the southwest corner of Stuyvesant Town in New York City, I chose to begin with massing studies that derived from extending the existing arms to create a solid mass. Using a series of tangents and arcs based on the existing buildings and paths, I created a formal language three-dimensionally and used those forms to carve away at the solid mass. This allowed for the new extension of the building to appear as one from the top view, but in reality have numerous pockets of negative space throughout to let in light and refrain from having a heavy presence on the site. These negative spaces also allowed for a large amount of terraced patios roof gardens.

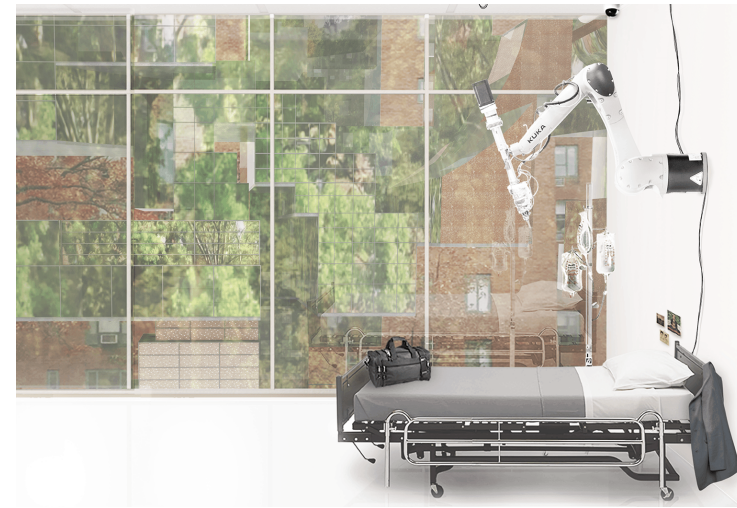




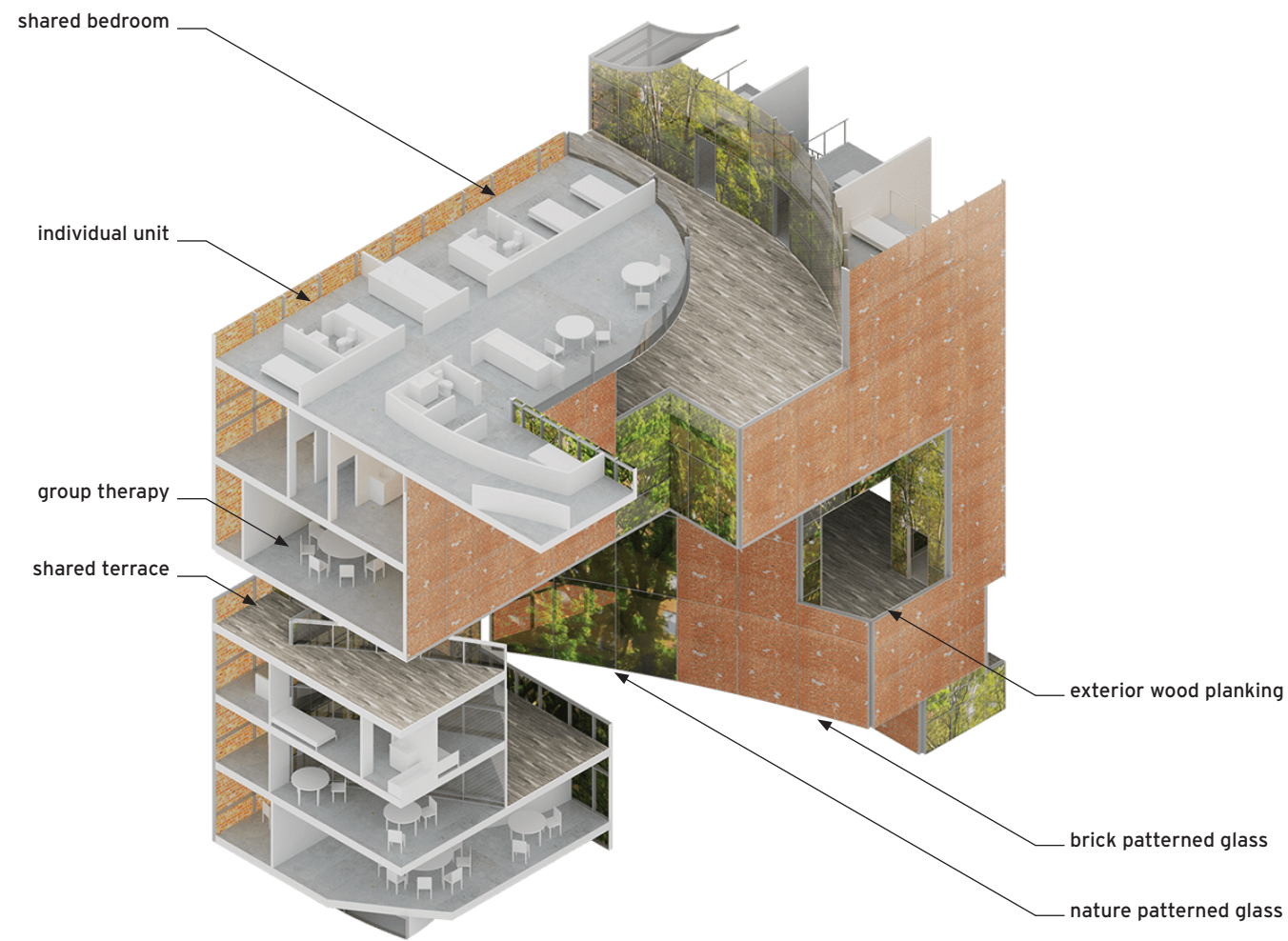
- 1. art studio
- 2. gallery
- 3. com. living room
- 4. laundry
- 5. patient rooms
- 6. medical testing
- 7. com. living room
- 8. group therapy
- 9. multi-purpose room
- 10. two-story apartment
- 11. storage
- 12. library

Building Plan of Typical Odd Floor

The additional housing program I included in the new architecture spaces serves as compensation for those partaking in medical trials and experiments, much like those seen on fliers in the subway or sponsored by local medical institutions. This approach to housing creates the opportunity for those wanting to live in the city, but unable to afford the New York City rent prices. As most medical trials and experiments require moderating, the medical facilities are located within the site. Various additional programming fills the site for the occupants to have experiences similar to amenities found in luxury apartment complexes.



Interior Render



Chunk Axonometric Render

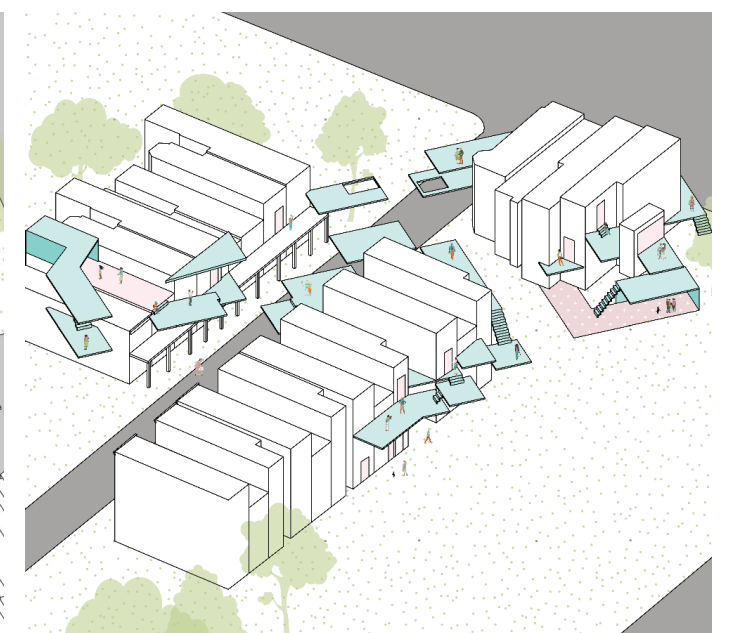
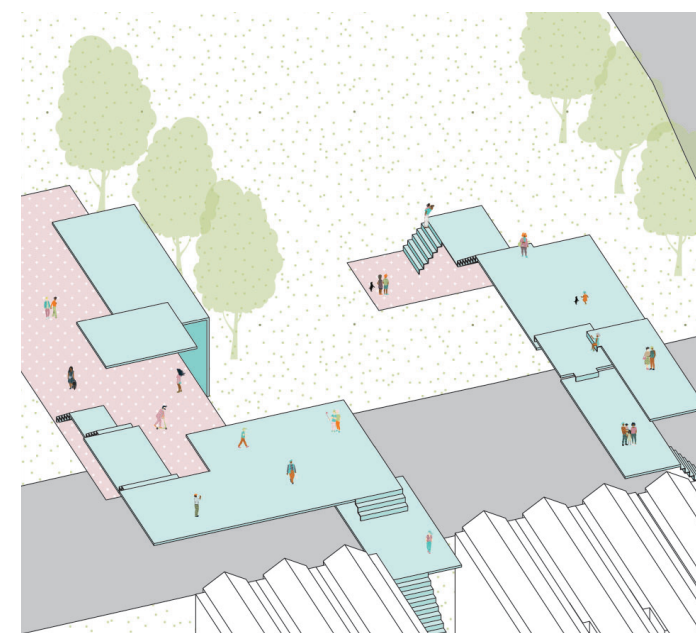
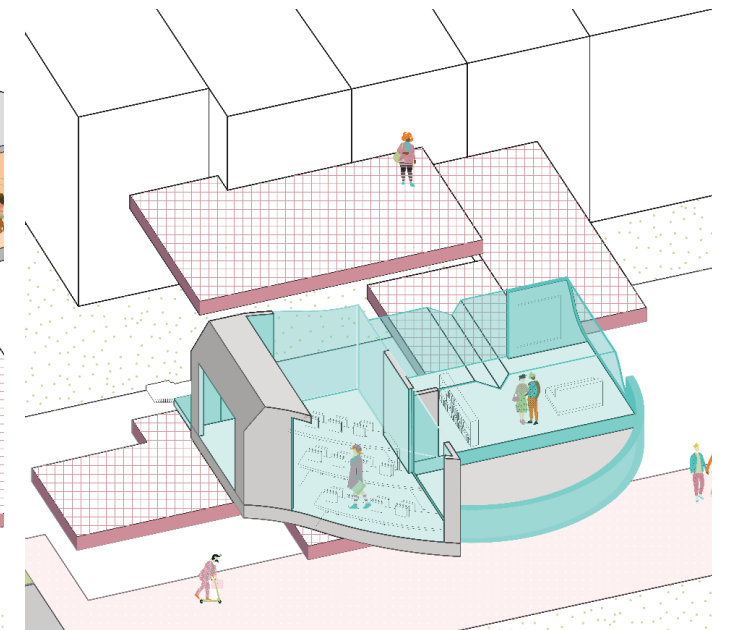
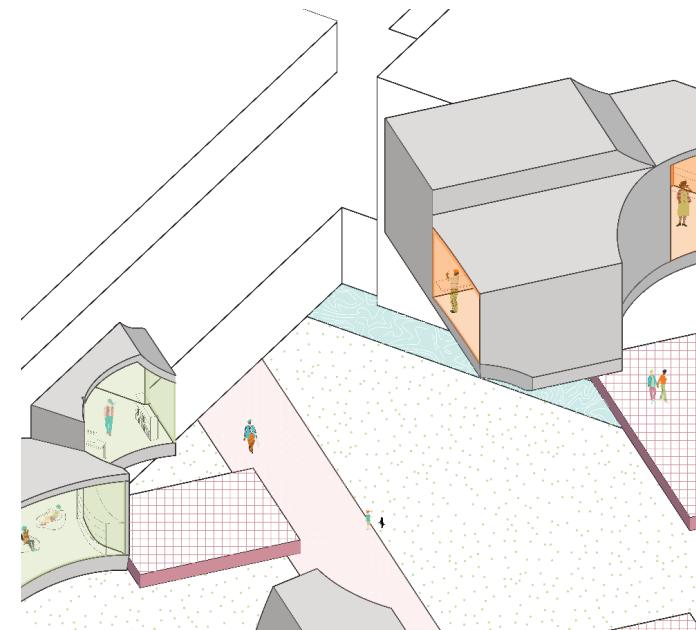
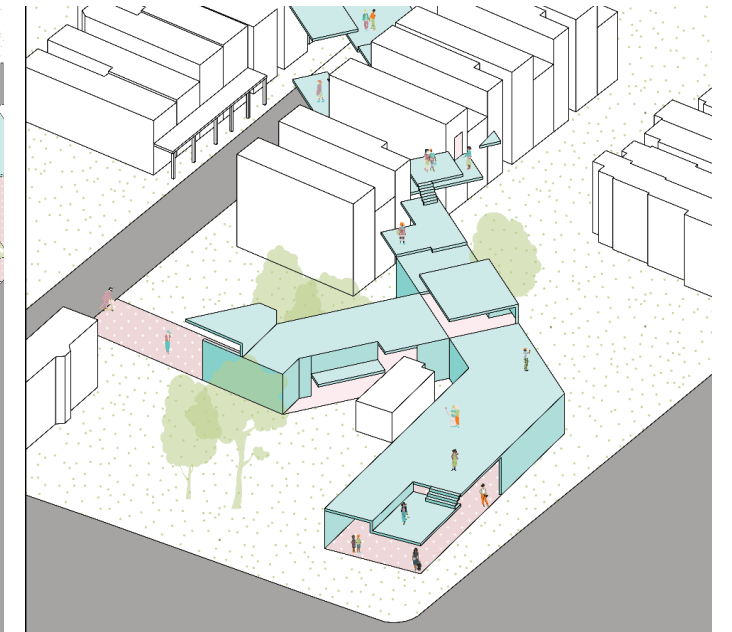


Courtyard Render

04 PERMEATING PLATFORMS

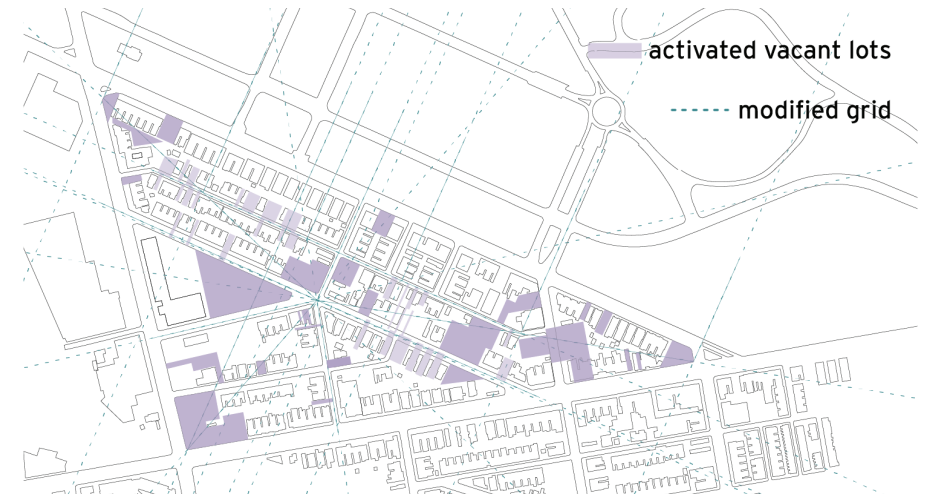
Instructor: Annette Fierro // University of Pennsylvania // Spring 2018

The prominence and quantity of vacant lots in East Parkside provides the possibility of a blank canvas to enhance the physical area and establish a stylized network to provide a signature identity for the community. Responding to the existing architecture and community involvement of the East Parkside allows for the permeating platforms to remain flexible and adaptable over time in regards to program function, shelter, and possible expansion. To bring an element of life and fun to the site, the language and methodology is formed from the exploration of construction toys. A village of fragmented moments that are infinite in time and space give the sense of a buzzing space or community hub for the library's site.

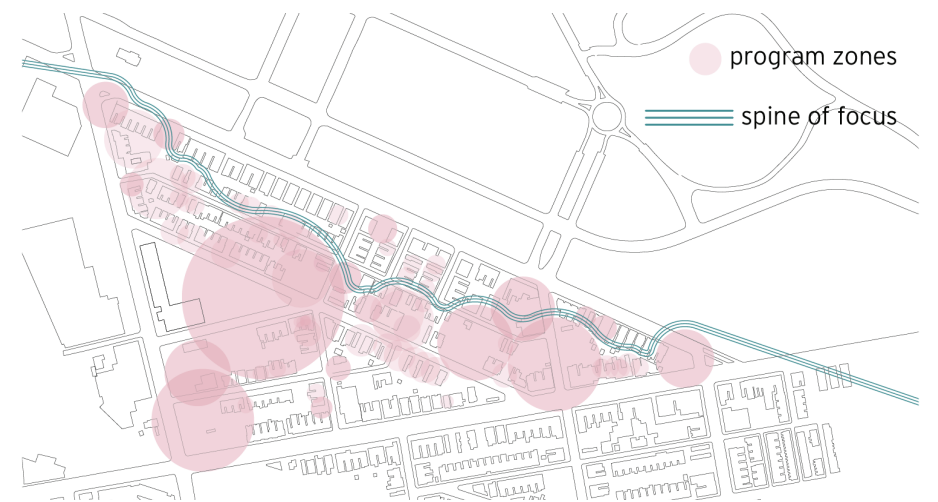




Parkside Site Analysis Mapping



Axis + Opportunities



Spine + Activation Zones



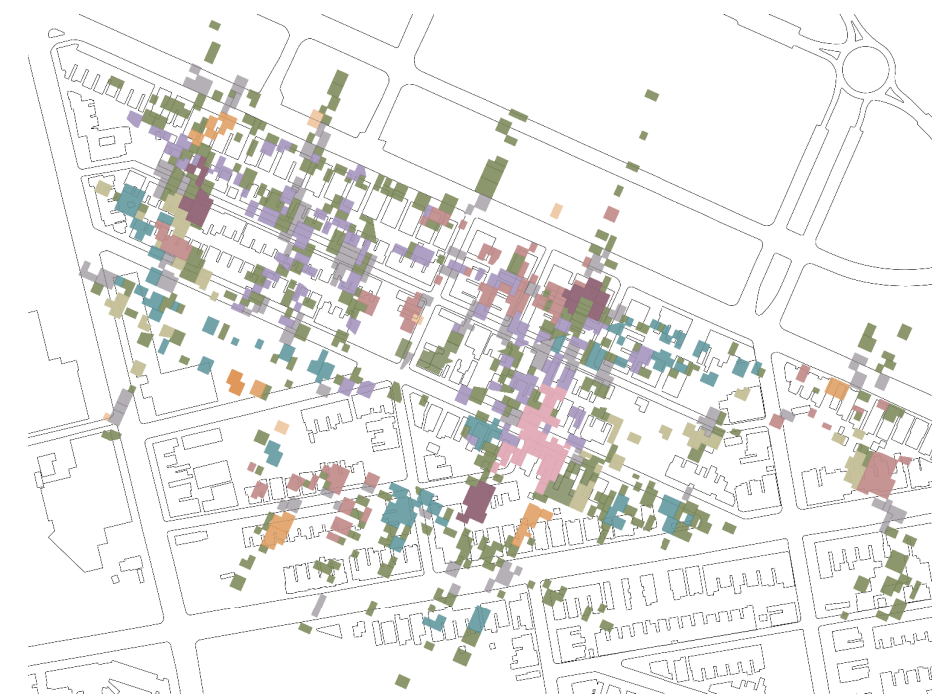
Platform Permeation



Site Plan + Building Plans

Following the varying height patterns as the platforms mimics the various activities constantly occurring throughout the village and provides a physical composition of energy and activation that invites participation and exploration by the community of East Parkside. Exploration of this site and project becomes an intervention to serve the community, employ the community, and give identity to the community. The library programming is scattered throughout the site to establish this variegated village. The program functions go beyond what is typically associated with a library to make the site active, engaging, functional, and fun. Scattering various programs helps generate interactions, and economy. Platforms that permeate throughout the site at various height levels create a circulation and programmatic network that works to activate vacant lots.

- picnic area
- convenience store
- green space
- gathering space
- circulation
- coffee shop
- public art
- playground
- observatory

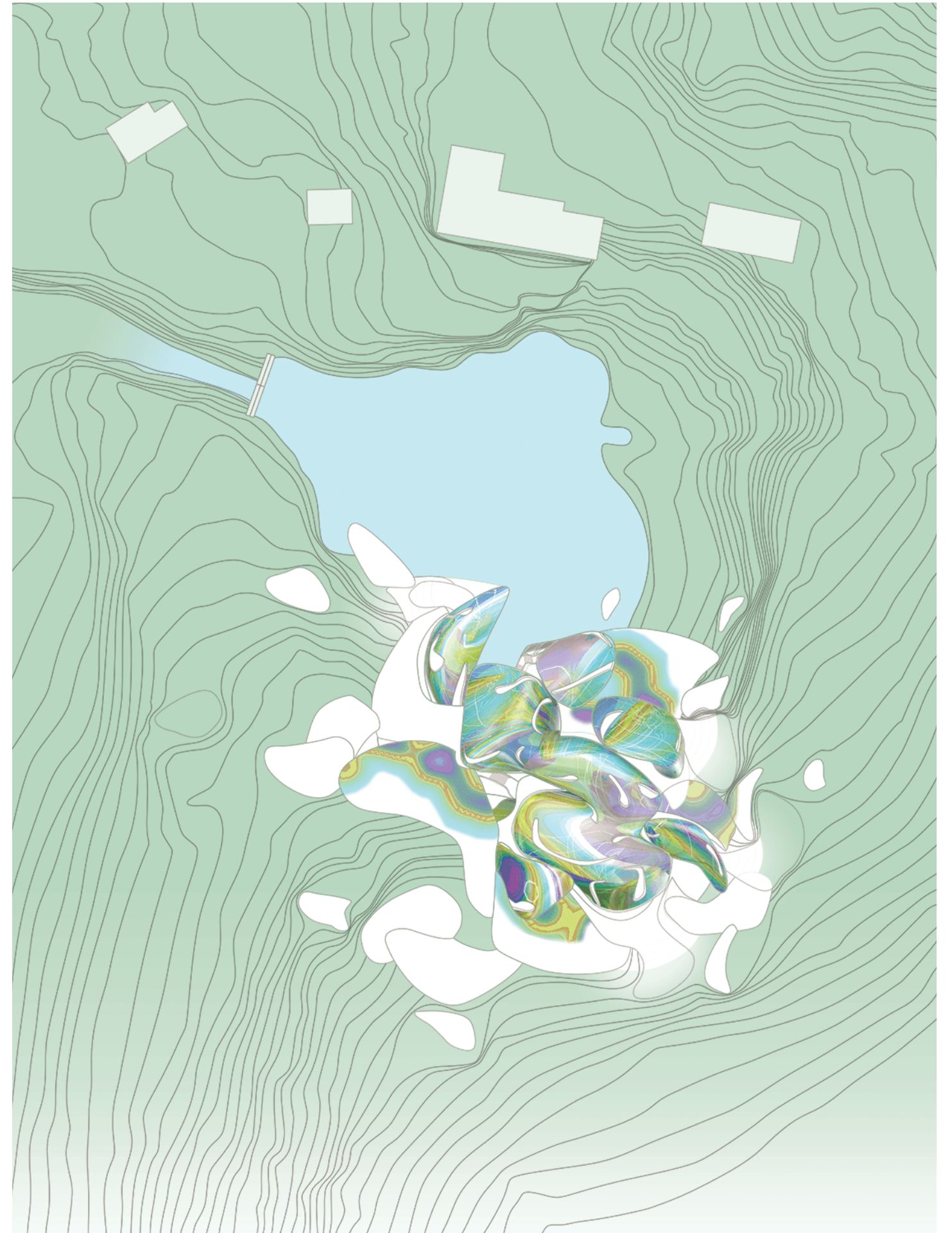


Program Distribution Diagram

05 VARIEGATED MONOLITH

Instructor: Danielle Willems // University of Pennsylvania // Fall 2016

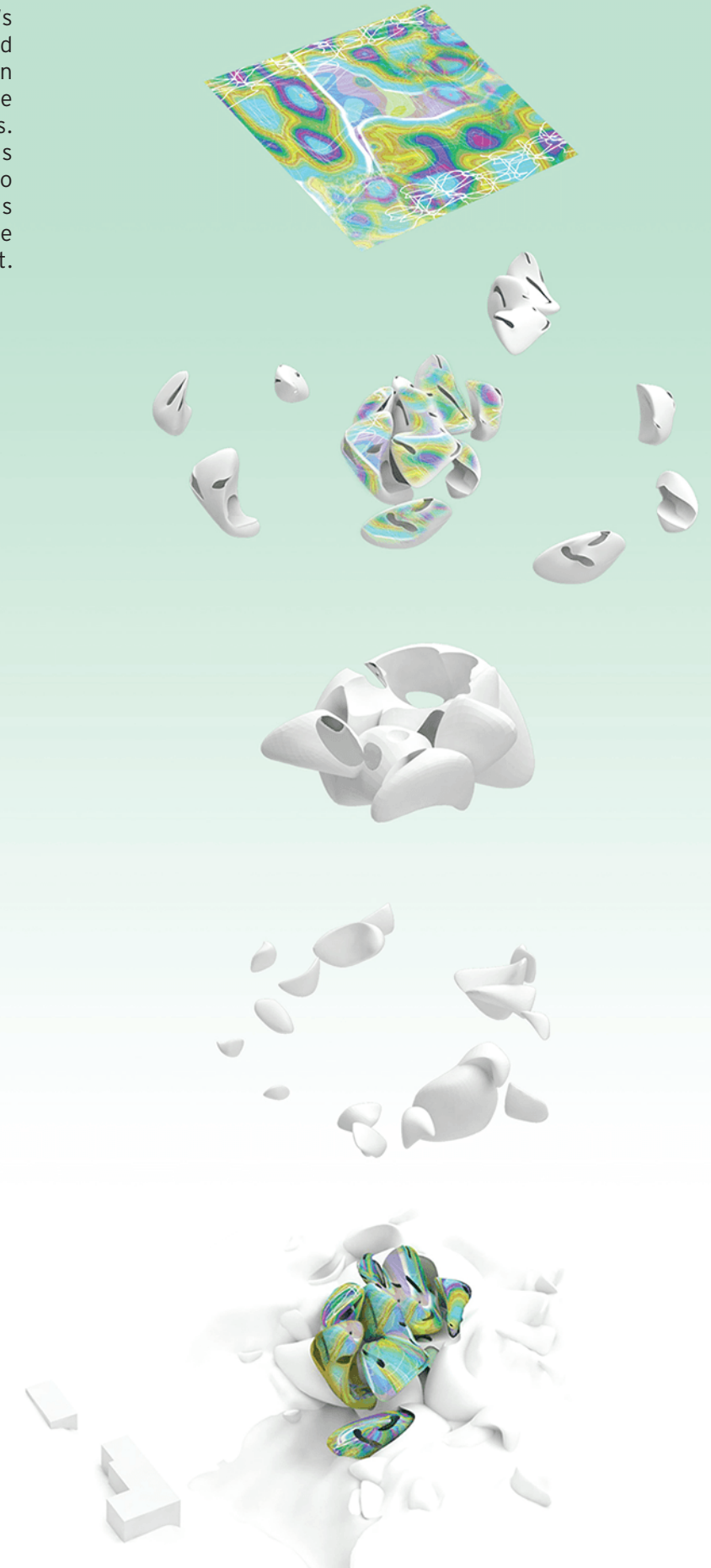
This project approaches the formality of architecture as a series of curvilinear, monolithic forms that create a harmonious entity. Attention to seams define the physical spatial separations while changing perspectives conceal the divisions that create the illusion of an individual mass that begins to merge with the environment. The ground relation establish a rhythmical and symphonic relationship with the site. While the architectural language reads as organic, the pattern and color establish a bold contrast. The pattern and color throughout the massing and manipulated site enhance the suggestion of a harmonious monolith. By oversaturating the colors used in Wright's pottery pieces, the colors are able to be traced back to the historical context of the site





Gallery Plan + Section

By using line work from the site's topography and line work based on the pottery pieces, the pattern becomes an abstract symbol of the essence of Wright's formal qualities. The generalized program function as a gallery space allows the ability to experiment with form and patterns that turn each part of the whole into an individual, precious artifact.

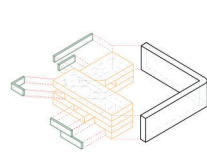


Exploded Axonometric

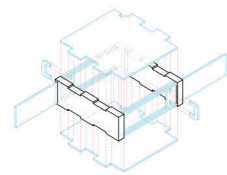
06 MATERIALS + SENSITIVITY

University of Pennsylvania // Spring 2018

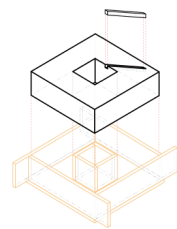
This proposal for a series of little free libraries to exist within the community of East Parkside, Philadelphia became a modest monument that focused on celebrating the agency and community of the neighborhood. The library-monument is a simple twisted column with alternating layers of wood, brick, concrete, lights, and books. The use of reclaimed materials honors the built heritage and layered history of the neighborhood while complimenting the urban character.



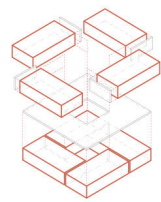
1.



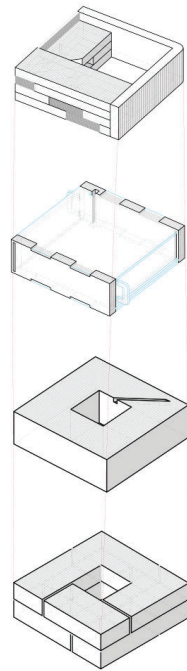
2.



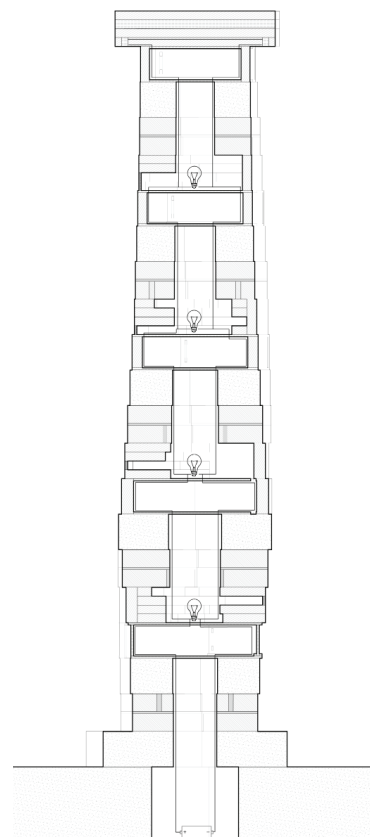
3.



4.



5.



6.



7.

- 1. light module
- 2. book module
- 3. chalkboard module
- 4. brick module
- 5. module order assembly
- 6. book drop section
- 7. physical model



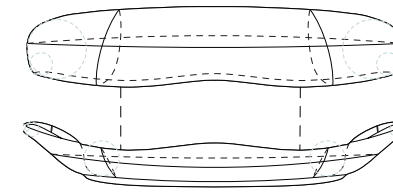
Night Render

07 CONVEX CONTAINER

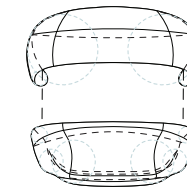
Instructor: Danielle Willems // University of Pennsylvania // Fall 2016

To explore spatial conditions at a small scale, the design intent was to create a container - with the definition of one left open ended - inspired by Russel Wright's butter dish pottery piece. The subtle curves and clear origins of a circular geometry instigated ideas of convex curves of the human figure. As the butter dish exists as two entities while appearing as a whole, the container does as well.

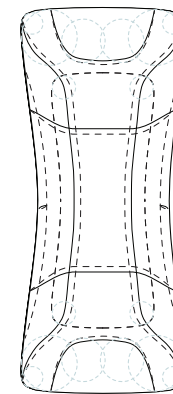
The decision to create a handmade model derives from the traditional creation of pottery pieces. The convex pillows that serve as the skin for the container mask the exact location of the opening seams to access the butter dish, while creating a soft, unusual texture out of simple foam sheets pinned to a core of shaped extruded polystyrene.



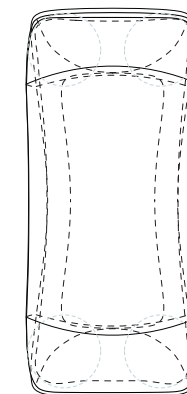
1.



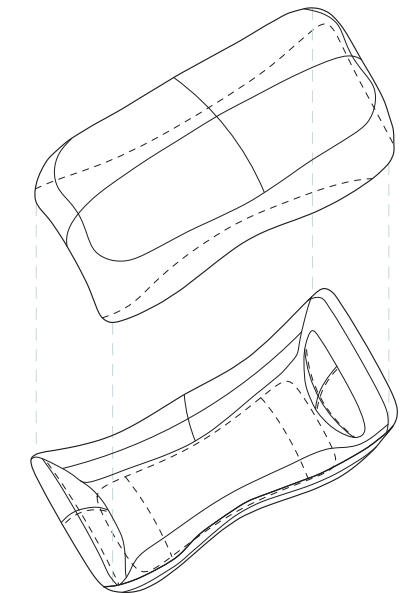
2.



3.

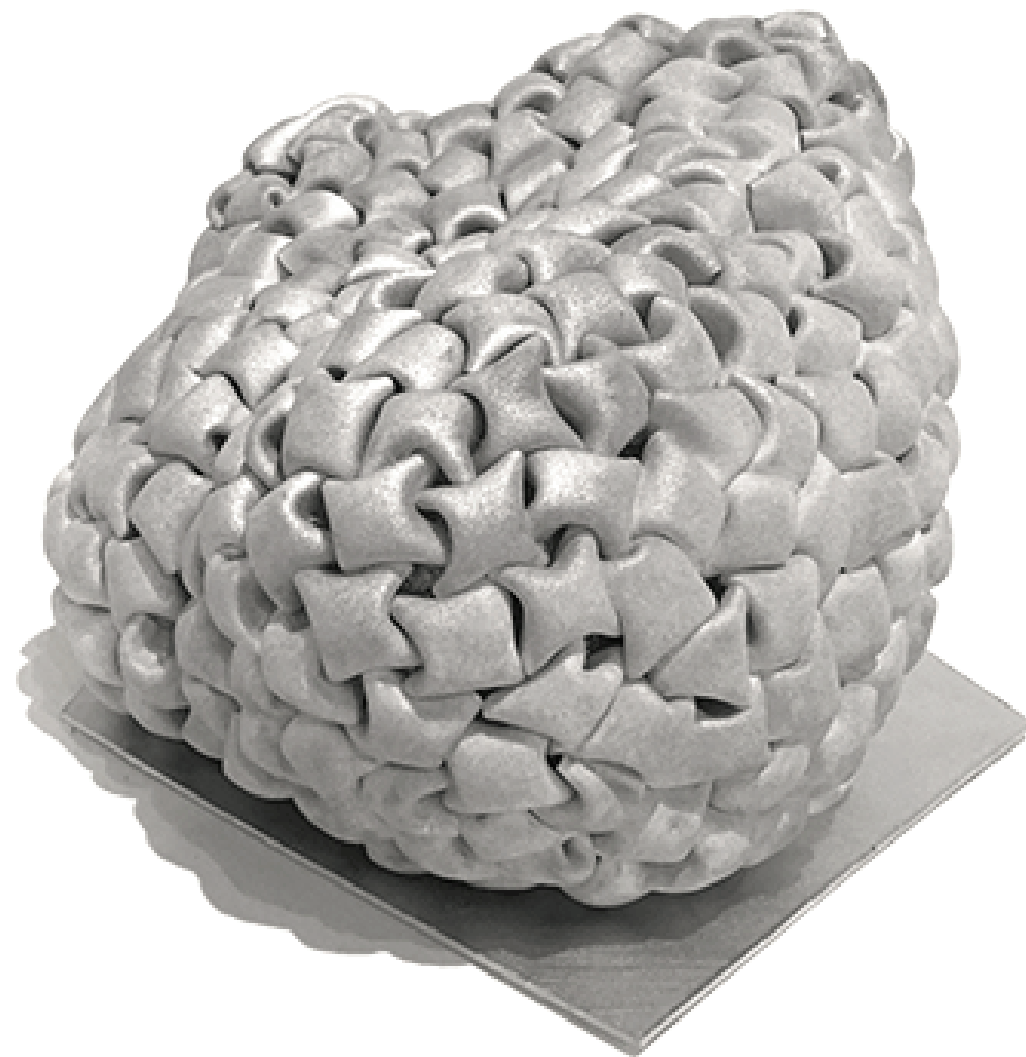


4.



5.

- 1. side A
- 2. side B
- 3. bottom
- 4. top
- 5. axon



08 SCULPTURE WORK

Cave (2012)

750 sheets of card stock (8.5"x11")

Each sheet was cut individually and stacked without adhesive. The pieces cut out creates a sculpture and the full sheets with a negative of the design creates a second. The goal was to create a hidden environment in the negative of the full sheets that requires a close up experience and displays rugged imperfections.



Broken Glances (2015)

steel sheets

This sculpture became an exploration of material transformation with only using the oxygen-acetylene tanks and cutting torch. While these tools are typically used for brazing or cutting, I decided to use the torch as a drawing instrument with plain steel sheets as the canvas. By removing my glasses while working, I was able to draw blindly and let the organically occurring effects of the torch guide the drawn forms. I was able to manipulate the piece the more I worked at it and learned how the steel responded to my method of drawing.



Approach (2015)

plywood + plastic tubing.

The anthropomorphic shapes of the wooden vessels draw attention to make viewers slow down as they approach the building. The clear tubing allows rainwater to travel through each vessel towards the bottom of the elongated stairs. Sounds also travel through the tubing, making the installation interactive and approachable. Each vessel was created organically, without particular planning, to ensure similar yet individual characteristics of each.



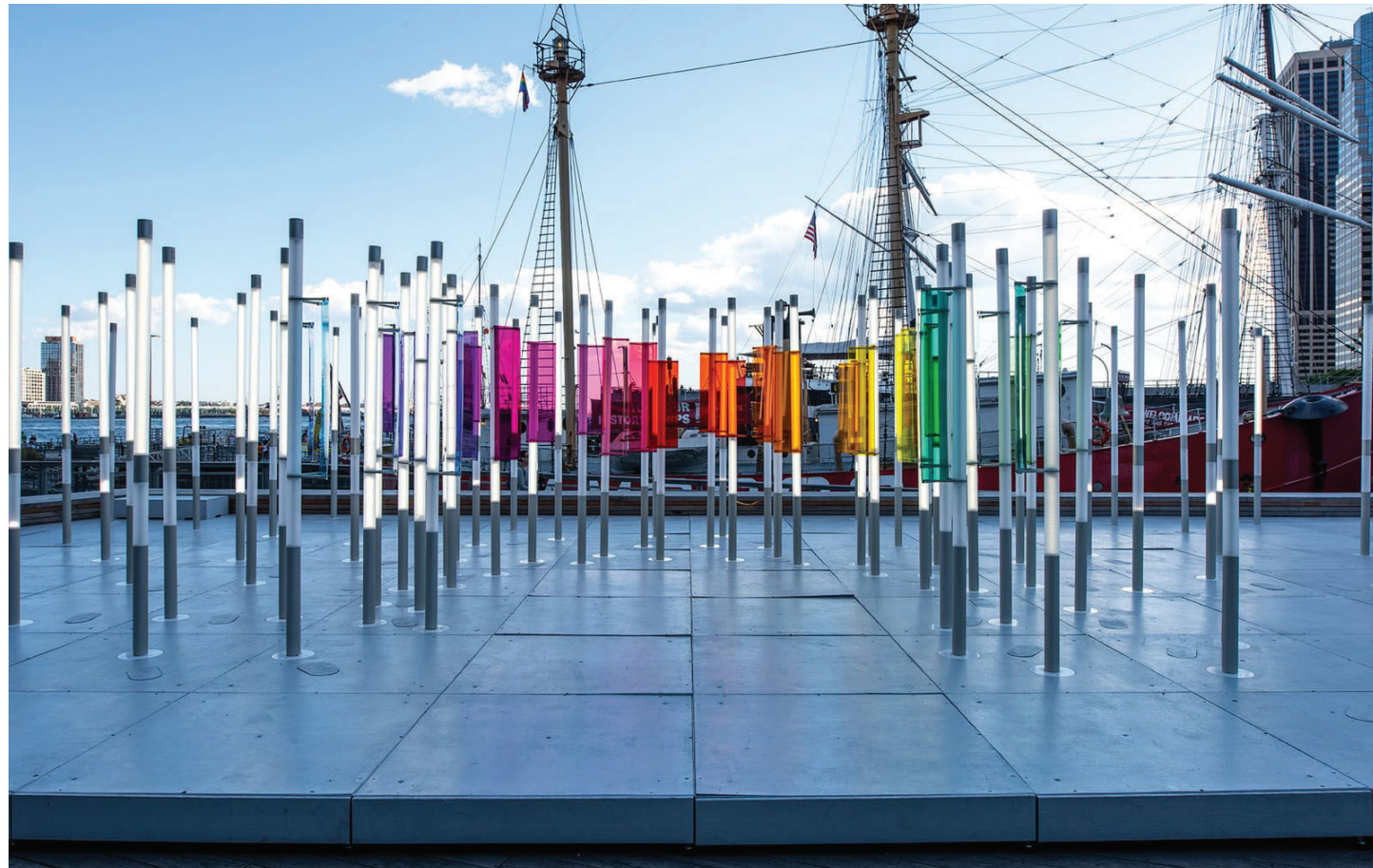
09 WORK SAMPLES

Design Intern // SOFTlab // Summer 2016

The Nautilus

South Street Seaport, NYC

This project was in the beginning phase of fabrication and installation when I started the internship. I was part of the team that assembled the poles at the office as well as the full installation at the South Street Seaport site. While most of the fabrication was for the poles, I also helped design and assemble the holders for the electrical equipment required for the lighting and touch activation elements of the installation. On site installation included wiring connections, platform assembly, painting, and speaker attachments.



Grotta Aeris

Raleigh, North Carolina

I was part of a team of four coworkers that completed the fabrication and installation of this piece on site in Raleigh. Creating a series of drawings for the fabrication as well as laser cutting most pieces was done before the installation. This project took the four of us two weeks to complete.



