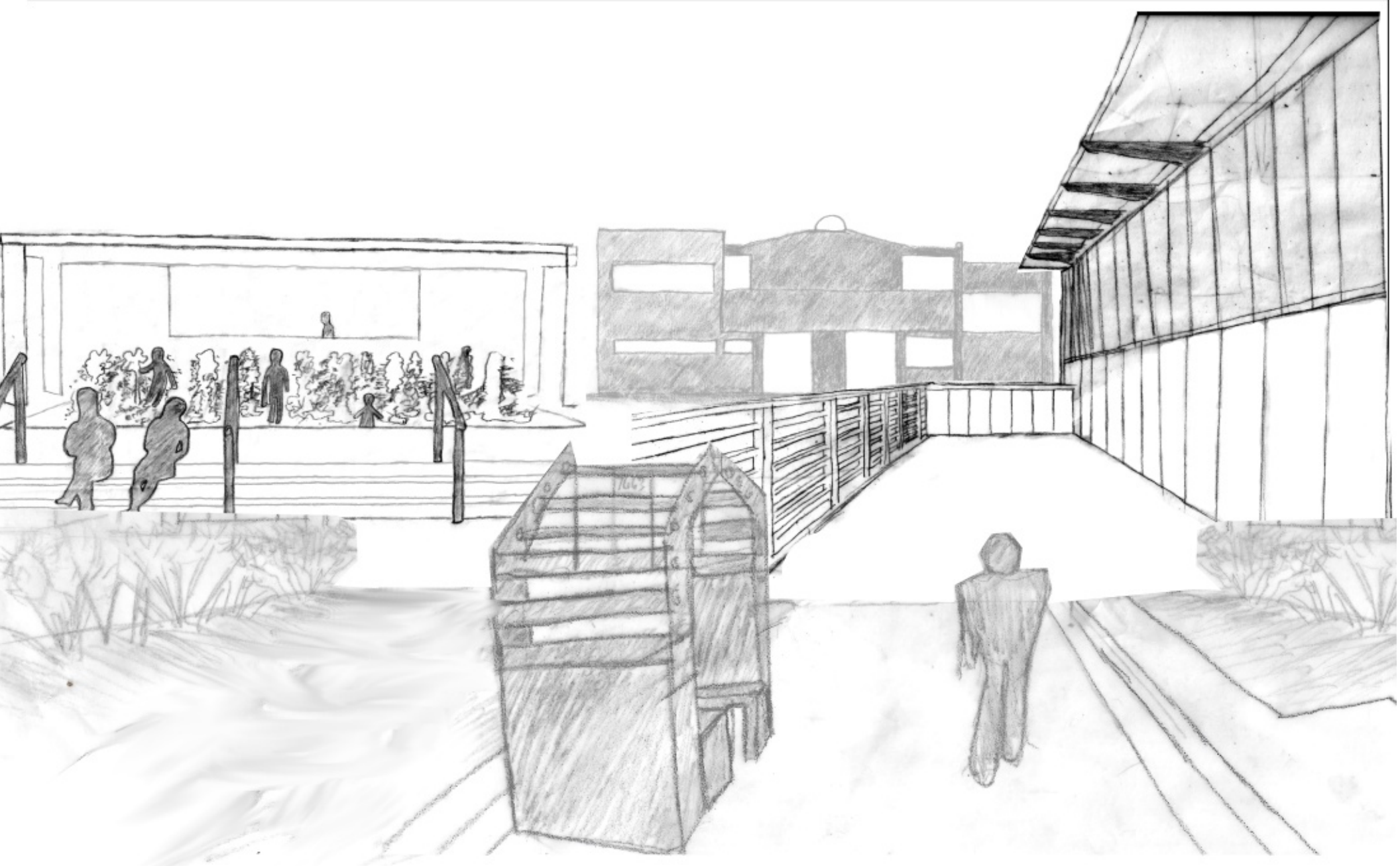






Hello, my name is Matthew Cienfuegos. I aspire to be an architect who specializes in regenerative, community oriented design. My goal is to design and develop architectural solutions that improve quality of life for all in the DMV area. This is my first academic portfolio that represents my first steps into the AEC industry. It includes many informative case studies and projects that have enhanced my understanding of various elements of design. From both collaborative and independent projects, these selected works encompass both my current skill-set and values as a LEED Green Associate to pursue my mission. I continue to develop and improve my skills and strategies to work with like minded individuals for the betterment of the world.

For more information check out my website below:

<https://www.mcienfu.design/>

Matthew Cienfuegos

mattpack100@gmail.com

3012150642

1. Blooms & Beats	4-8
2. Foundations	9-13
3. Harbor Park	14-18
4. Sun Gallery	19-23

Contents



Blooms & Beats

Case Study: Fleeting Forest

Location: Takoma Langley Crossroads, Maryland.

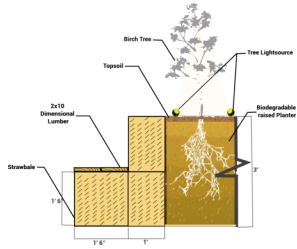
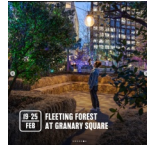
Type: UMD ARCH408, Prof Newman



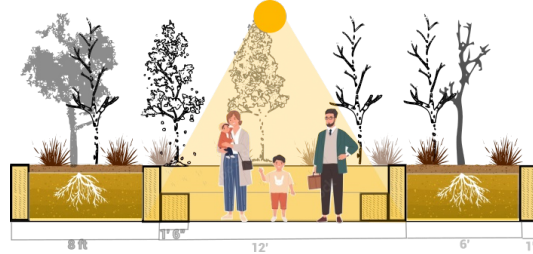
Case Study: Fleeting Forest

Location: Granary Square, Kings Cross UK

Designers: Assemble Studio, Local works Studio, etc.



Detailed section



Longitudinal Section

A temporary art exhibition that was meant to reestablish the intimate connection between humans and nature in an urban environment. Analyzing this installation changed my perspective on how impactful an interactive model can be for the local community. The feedback from the locals at Kings Cross really emphasized the need for better public spaces.

"Hard to connect to costumers..."

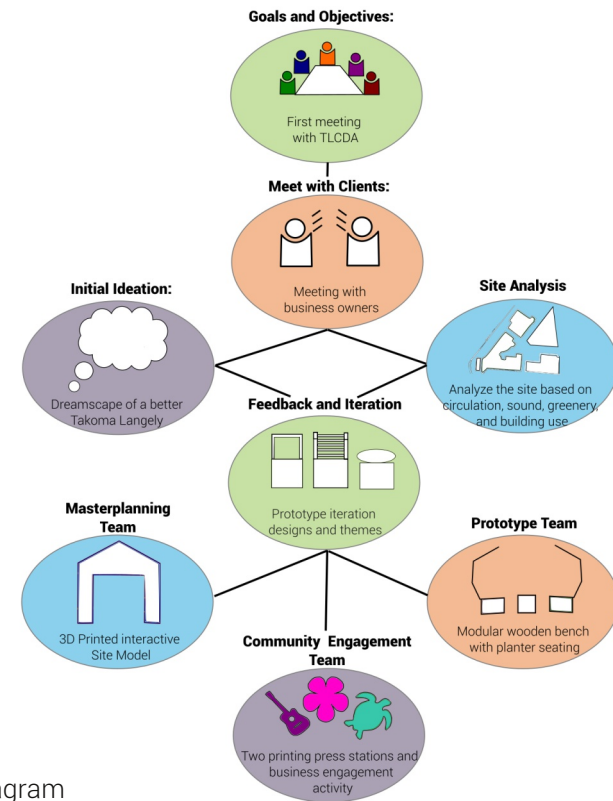
"There's no vibrancy or gathering spaces..."

"We need more greenery!"

"There is no place to rest here."

"To many cars... it gets to crowded..."

Initial Community Responses



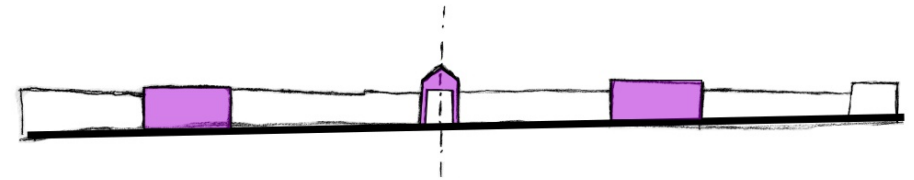
Workflow Diagram

UMD had the opportunity to collaborate with Takoma Langley Crossroads Development Authority(TLCDA), to work on supporting the local businesses during the **construction of the Purple Line**. The goal was to construct a prototype planter design in a strip mall located across a future stop and showcase it during a community block party event called **Blooms & Beats**. ARCH408 split into groups of three, of 4-3 students per group. I was in the community

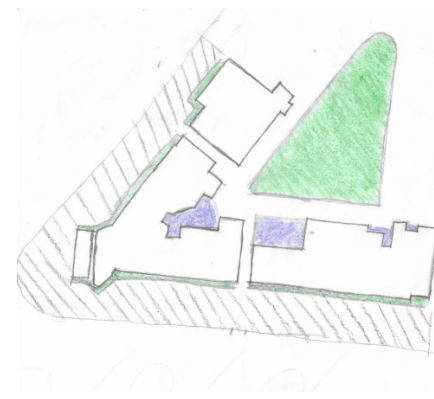
engagement team. our role was to manage communications, design the event layout, design a business involvement activity, construct two printing presses and operate them during the event, and document community feedback. The event was successful in boosting the moral of the community, connecting businesses to new customers, and allowed people to think differently about how Takoma Langley Crossroads can be used and celebrated in the future.



Vision of the future (Dreamscape)



Parti Diagram



Zone Diagram



Traffic Diagram



Face/flower pot painting



Prototype and engagement info



TLCDA



Music Band



Site Model



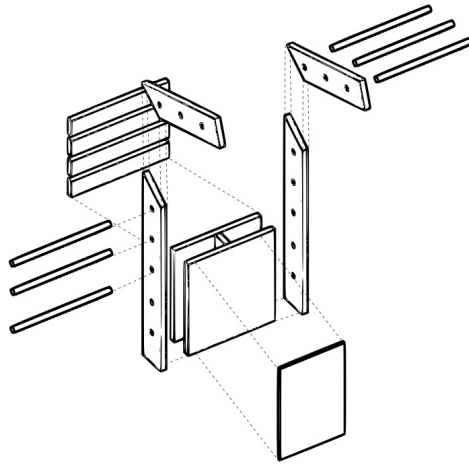
Printing Press



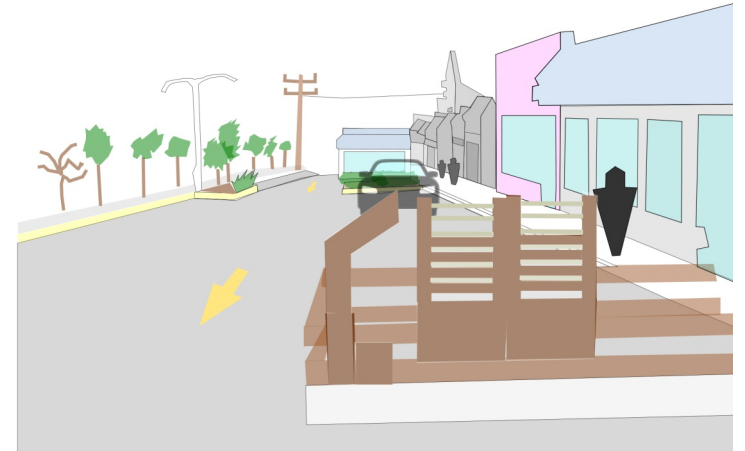
Event Layout Diagram



Initial Concept



Assembly Diagram



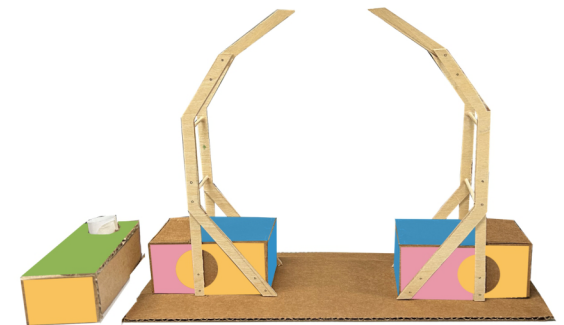
Sidewalk Perspective



Front Perspective



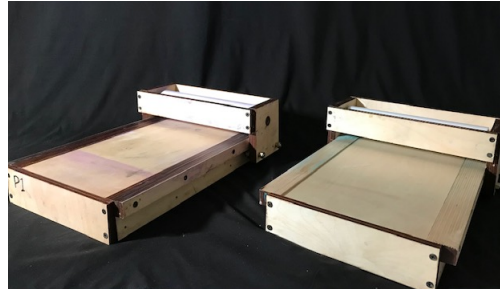
Takoma Create Model



Final Class Prototype Model



Prints and Ghost prints



Printing Press



Community Feedback Responses

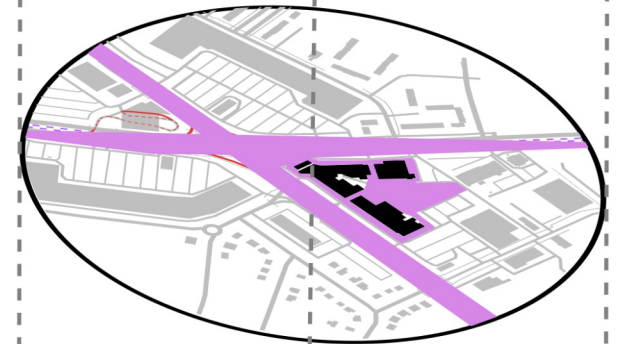
From face-painting, printmaking, and more, these types of activities you wouldn't expect from a traffic congested strip mall, especially during times of uncertainty. But this event really changed my perspective on how architects can improve the morale of a local community and create a new sense of place and wonder in the most unlikely of public locations.

For more photos of the event visit: <https://flic.kr/s/aHBqjCcZF4>

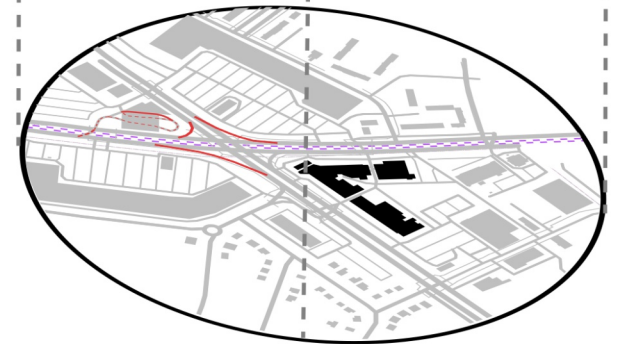
Greenery



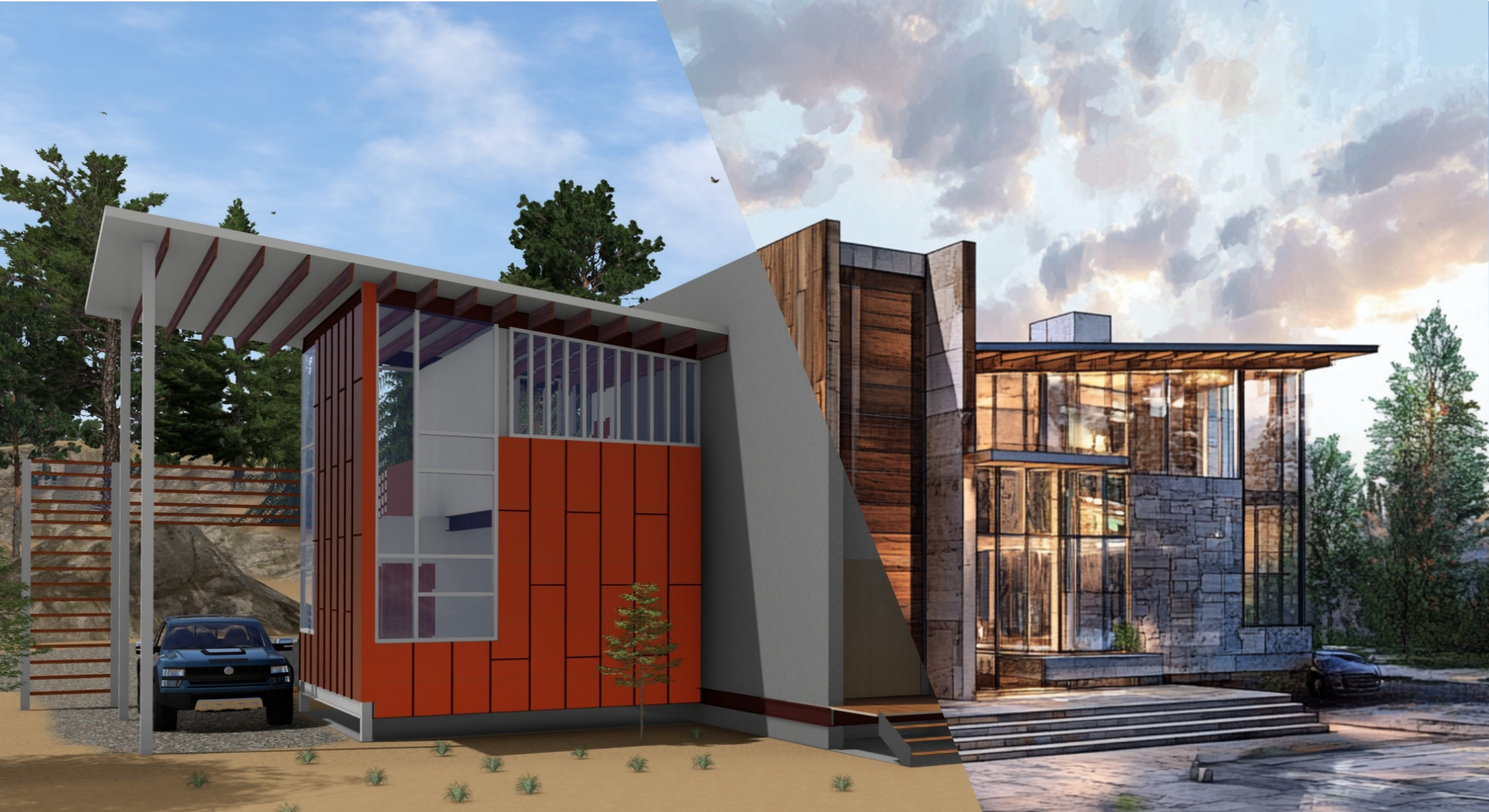
Walkability



Base Map



Areas in Need of Improvement



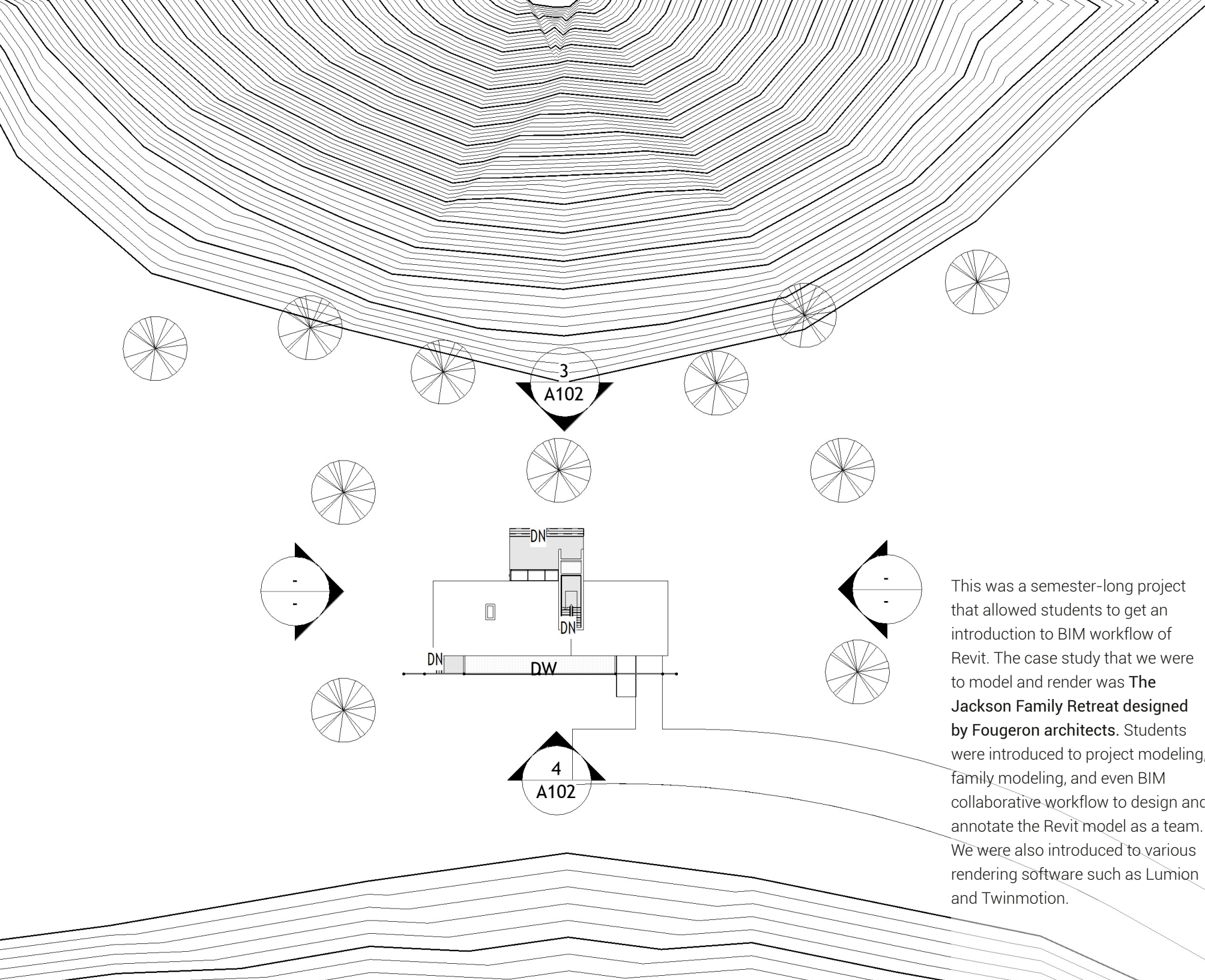
Foundations

Project Name: Case Study: Jackson Family Retreat

Location: Big Sur, California

Type: UMD ARCH472, Prof Wilfong

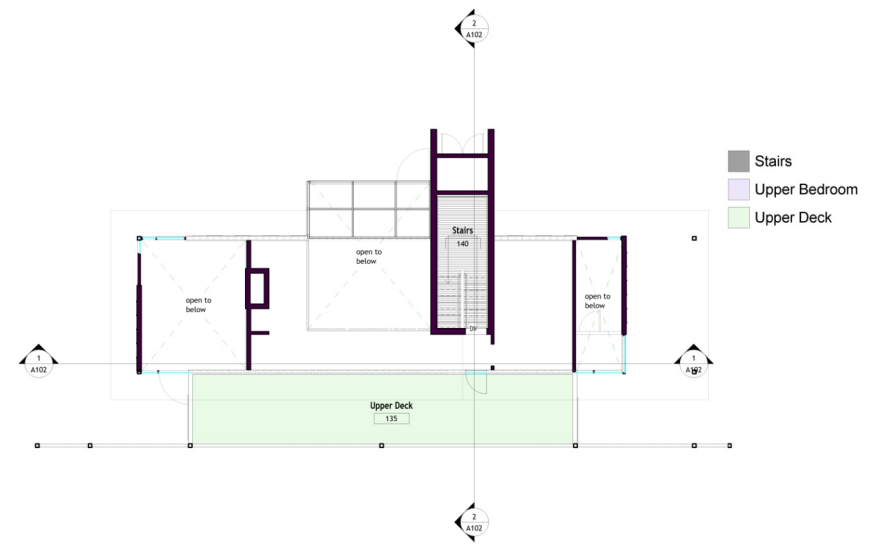




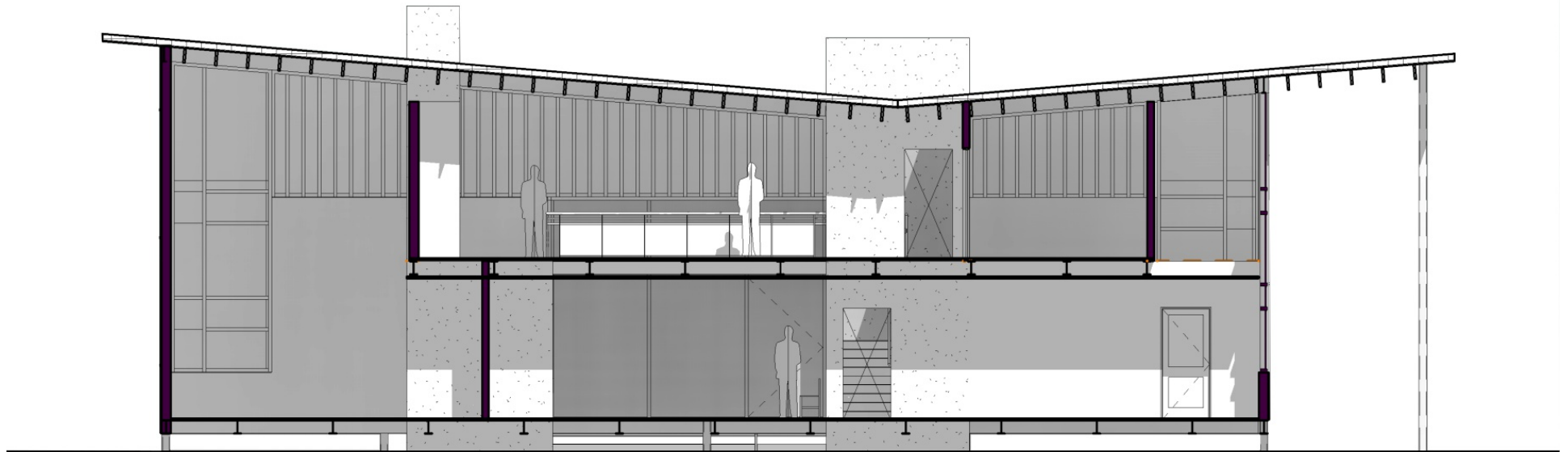
This was a semester-long project that allowed students to get an introduction to BIM workflow of Revit. The case study that we were to model and render was **The Jackson Family Retreat** designed by Fougerson architects. Students were introduced to project modeling, family modeling, and even BIM collaborative workflow to design and annotate the Revit model as a team. We were also introduced to various rendering software such as Lumion and Twinmotion.



First Floor Plan



Second Floor Plan



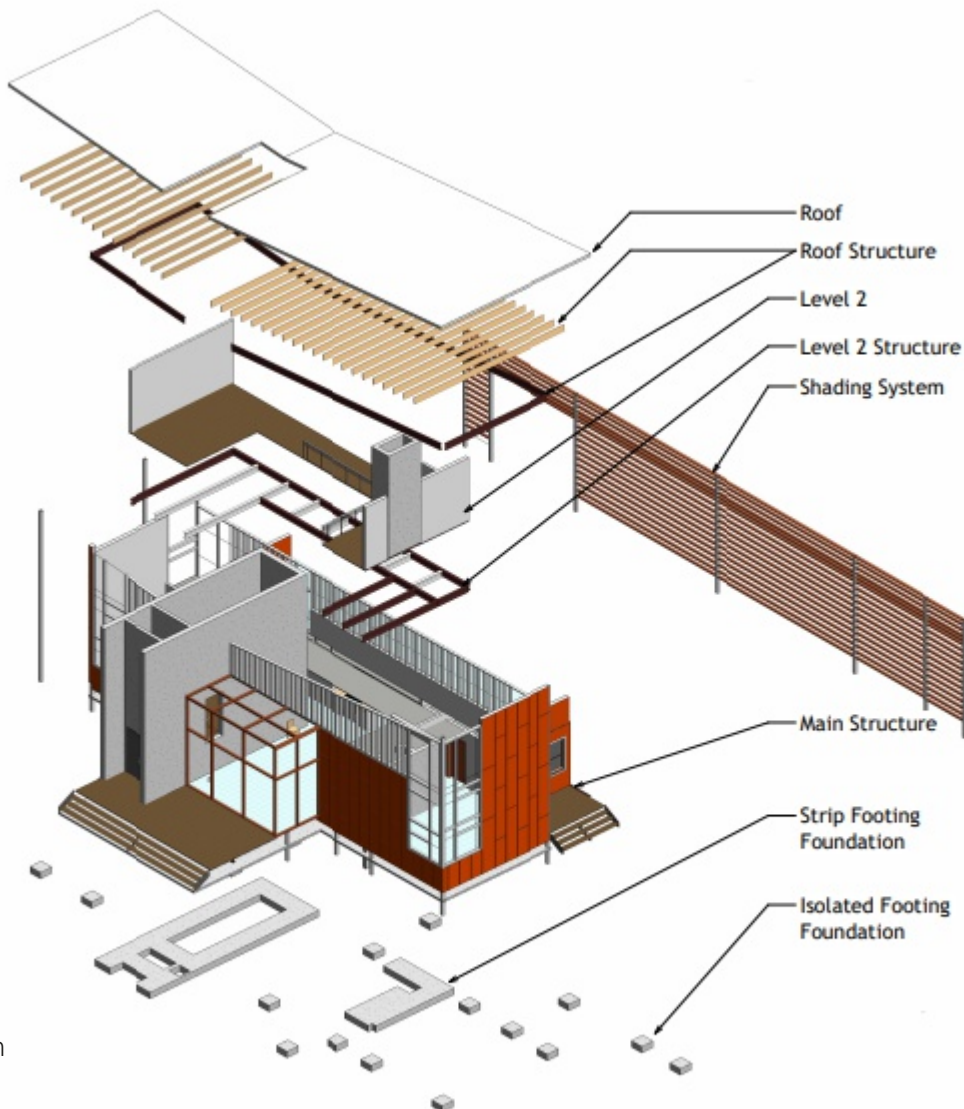
Longitudinal Section



South Elevation



North Elevation



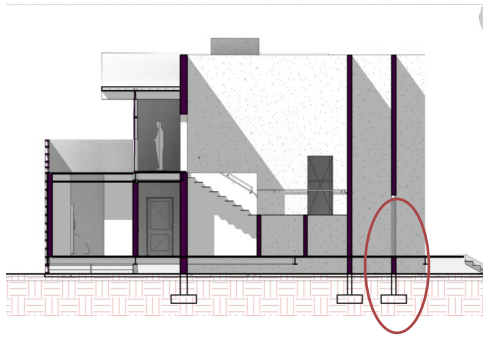
Exploded Axon



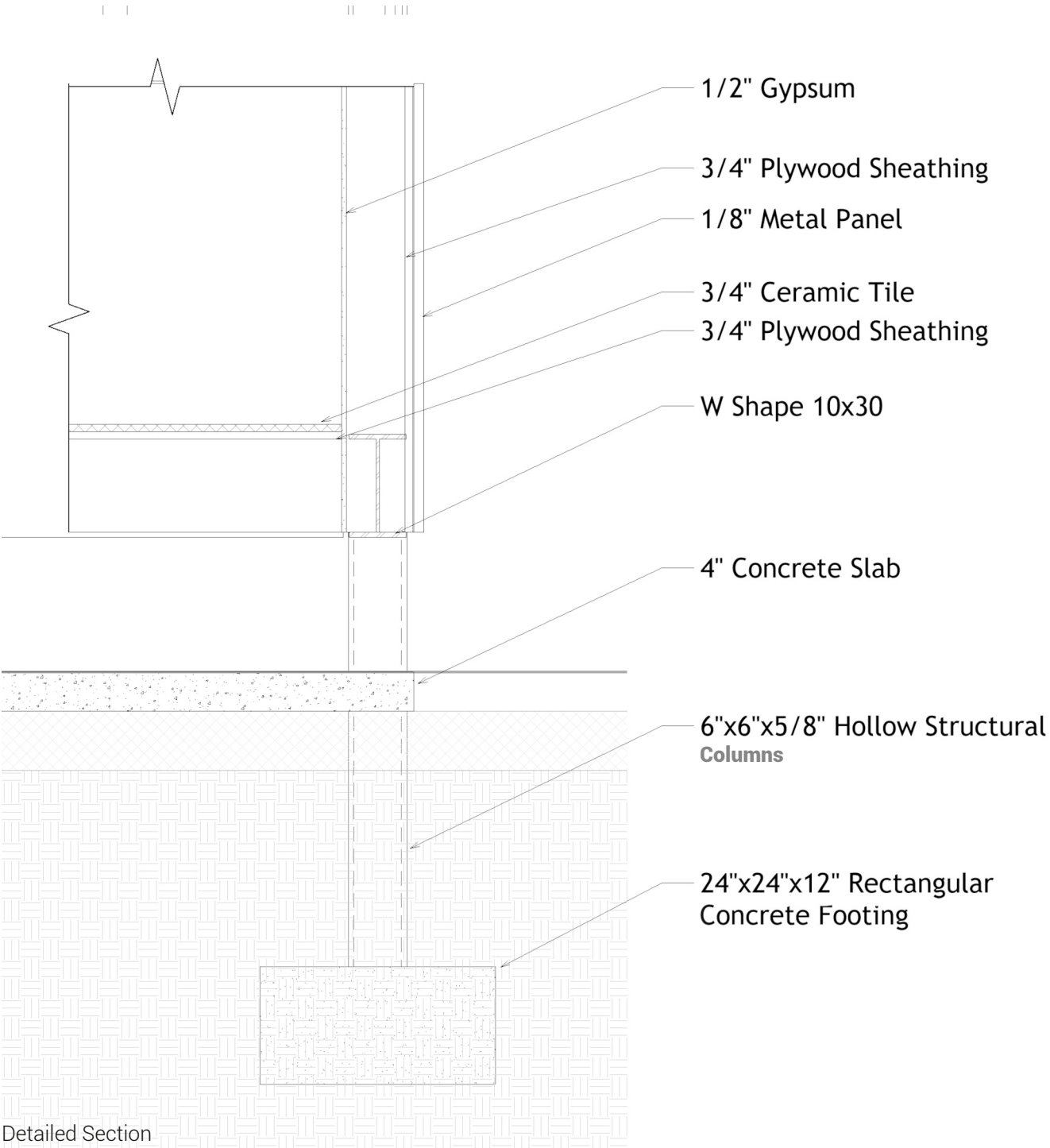
Interior Perspective(Lumion)



Exterior Perspective(Midjourney AI)



Transverse Section



Detailed Section



Harbor Park

Case Study: Jamison Square Park

Location: Conceptual Project

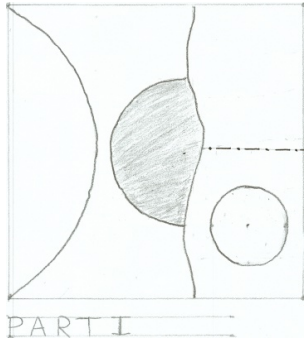
Type: UMD ARCH400 Prof McKenley



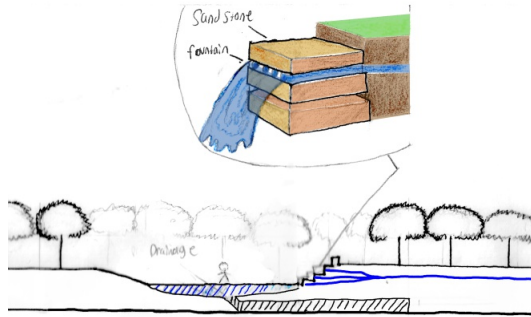
Case Study: Jamison Square Park

Location: Portland, Oregon

Designers: PWP Landscape Architects

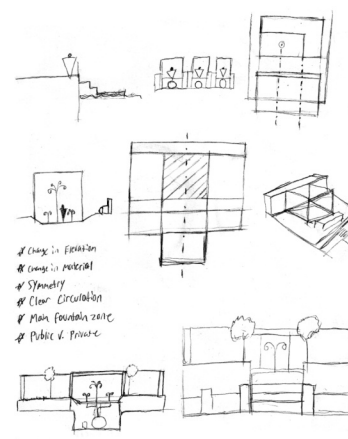


Parti

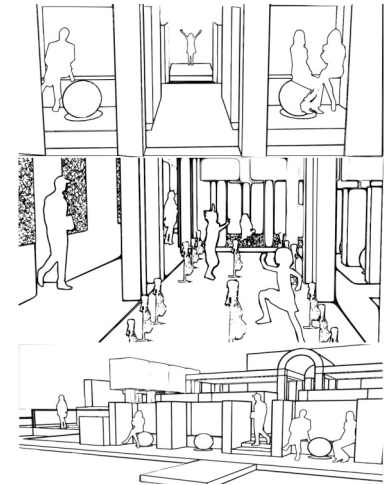


Section Diagram

The way PWP were able to define and differentiate spaces through **change in elevation, materiality, and function** really stood out to me as a means of implied separation and order. Through distinct contrasting colors and material textures, implied thresholds are clearly defined.



Initial Thumbnails



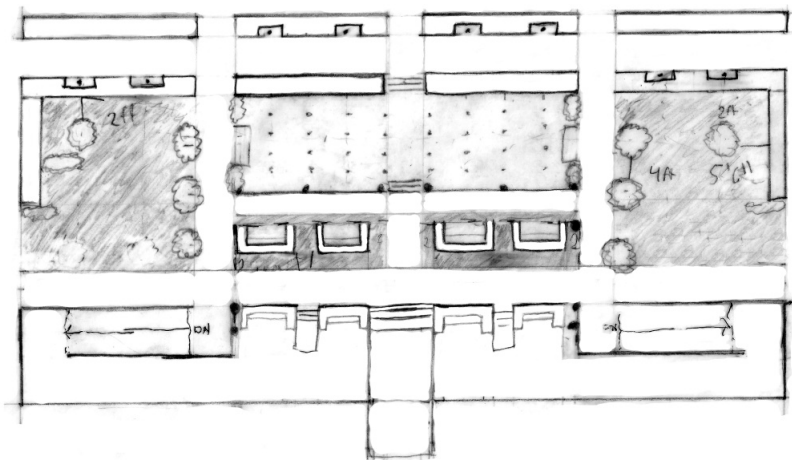
Concept Drawings



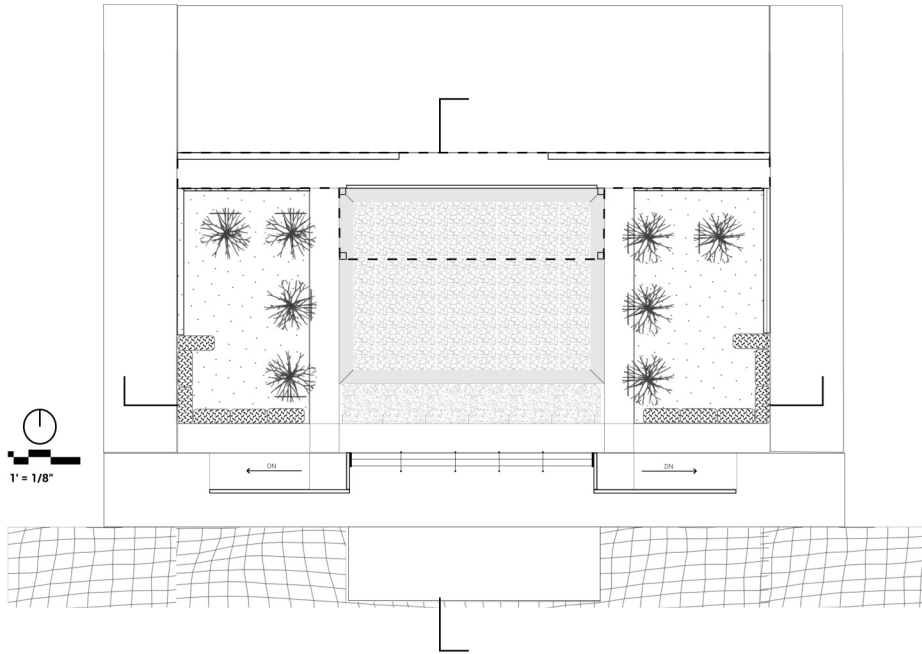
Physical Model of Previous Iteration

My first studio project was to design a conceptual plaza resting along the edge of a body of water. The main idea was to design a space where people could relax and escape from the bustling urban work environment. My initial thought was to design the plaza to be both **simple and symmetrical**, so that different thresholds between public and private spaces could be clearly defined. I also wanted other

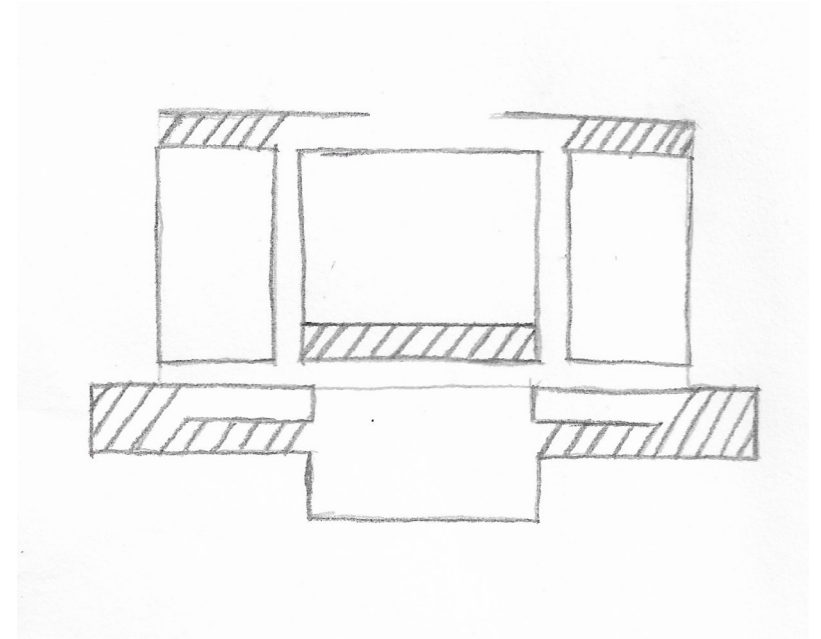
recreational usage, so that this space could be used as a community gathering place. From the beginning intentions of hardened solid seats for private spaces to changing that idea to better imitate Jamison Square Park for a more subtle approach of transitioning thresholds through materiality and elevation.



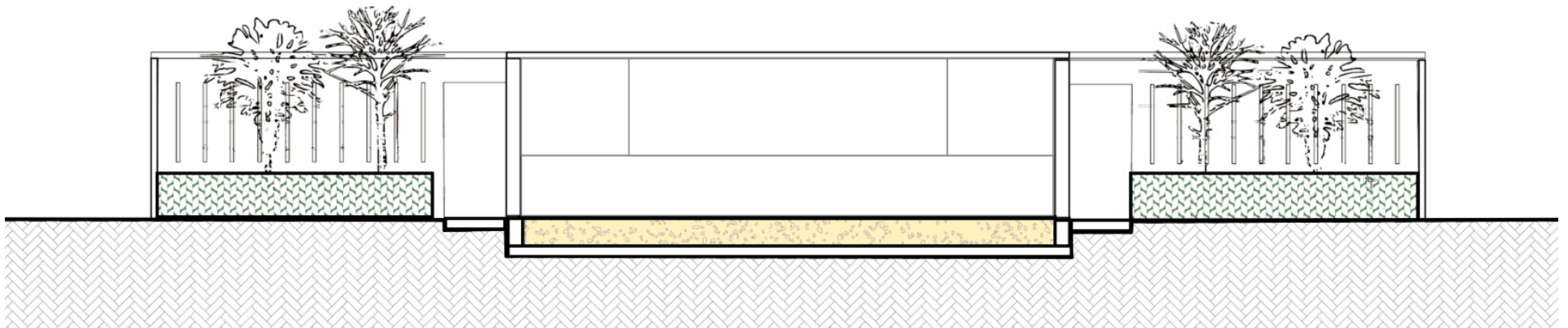
Pre-design Concept Sketch



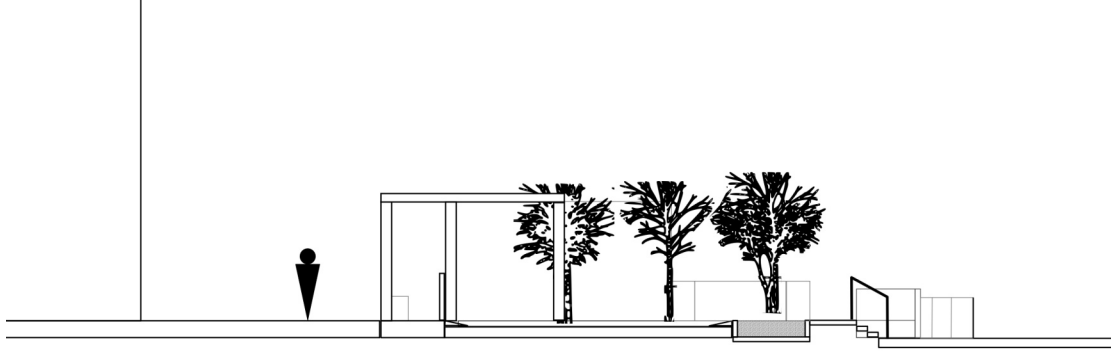
Plan View



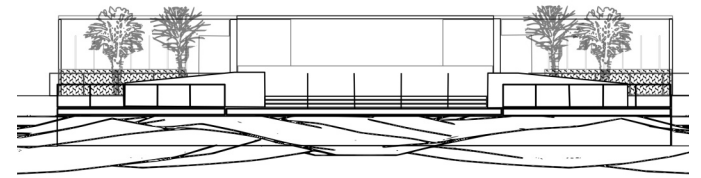
PVP Diagram



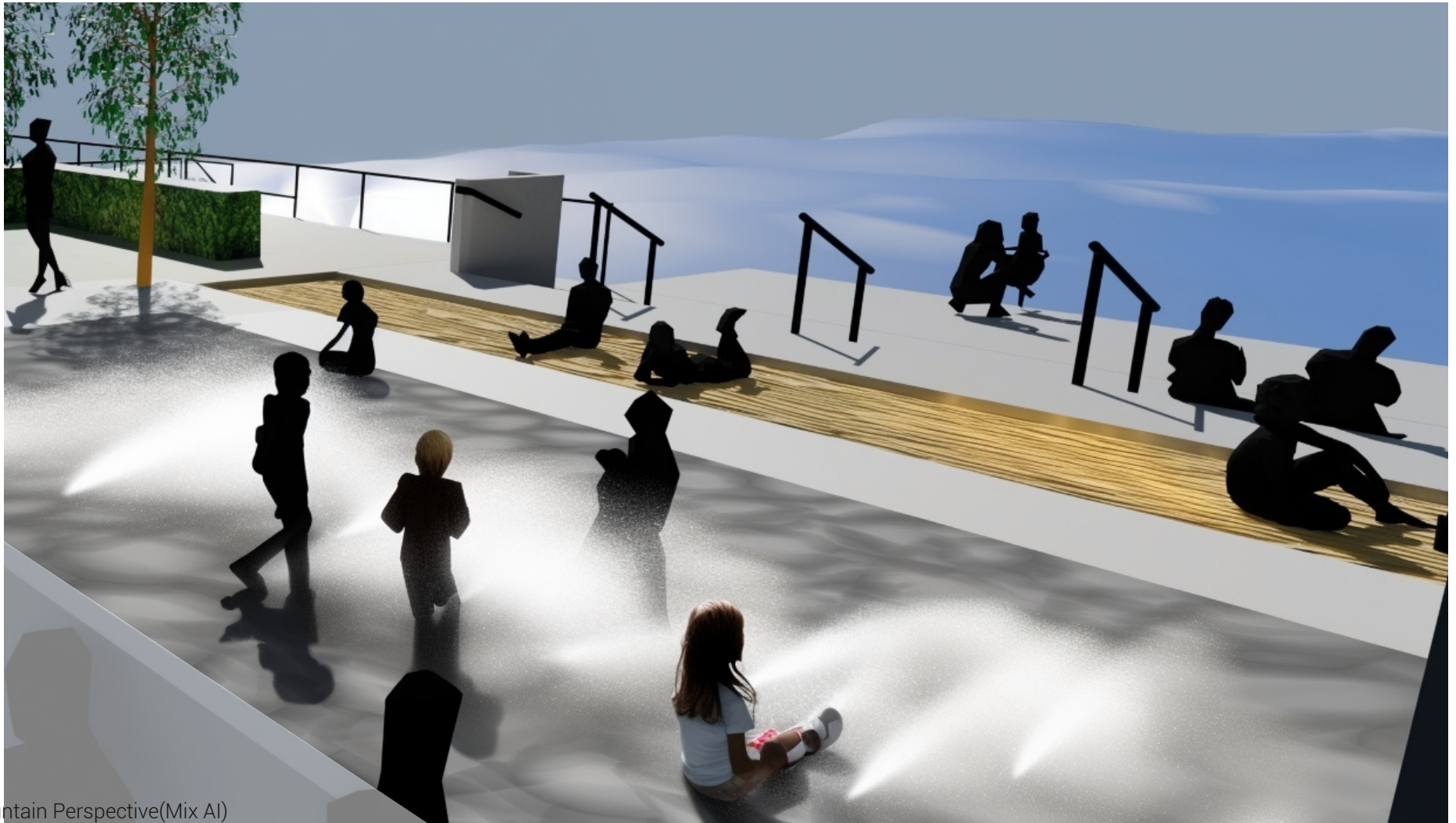
Transverse Section



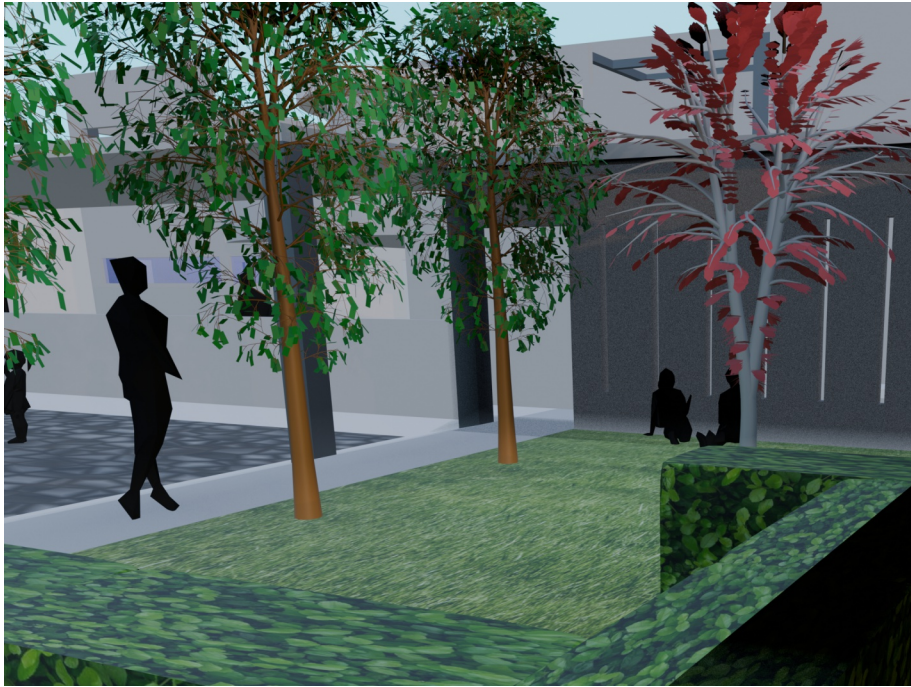
Longitudinal Section



Southern Elevation



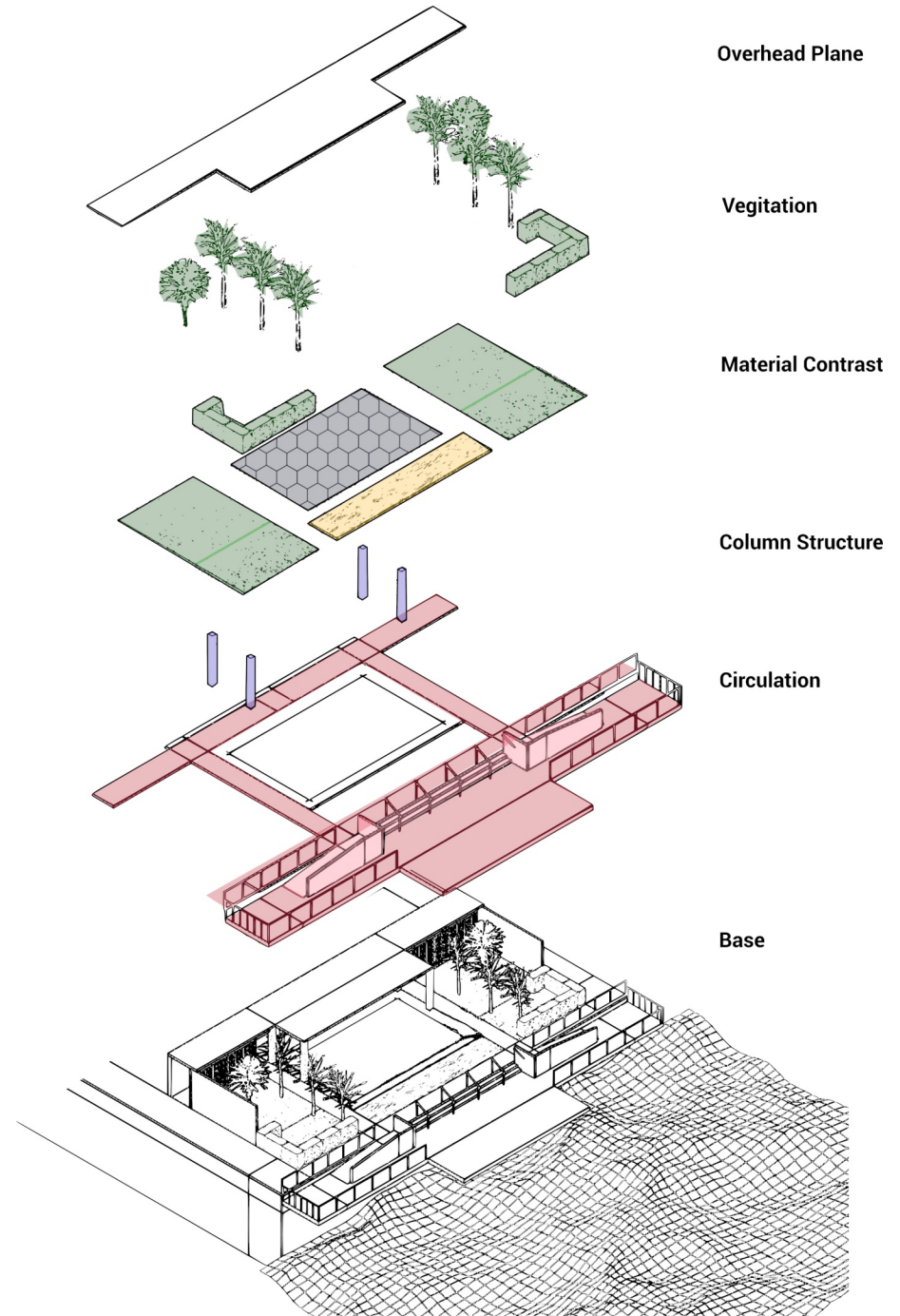
Fountain Perspective(Mix AI)



Garden Perspective



Night Time Perspective(Mix AI)



Exploded Axon Diagram



Sun Gallery

Case Studies: Weissenhof Estate and The Solar Light Pipe

Location: Conceptual Project

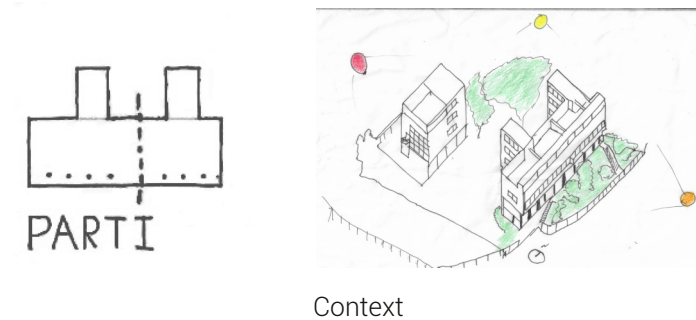
Type: UMD ARCH400, Prof McKenley



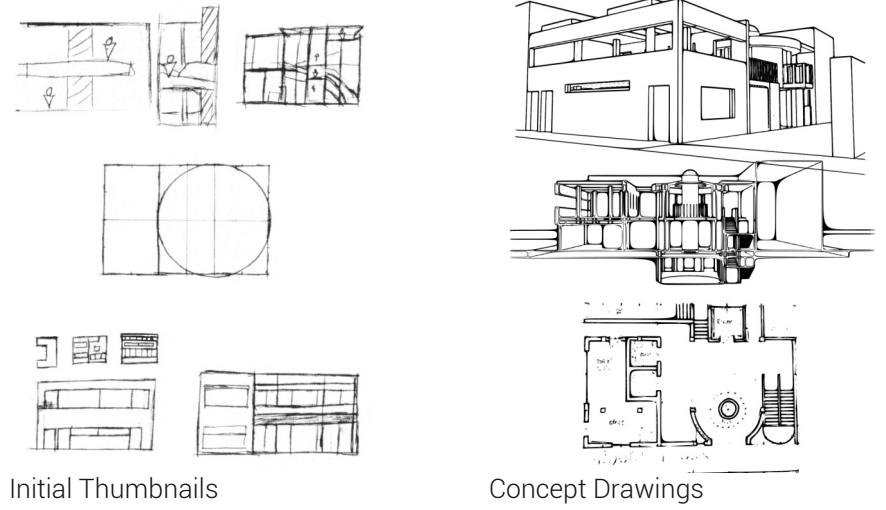
Case Study: Weissenhof Estate

Location: Stuttgart, Germany

Architect: Le Corbusier



Context



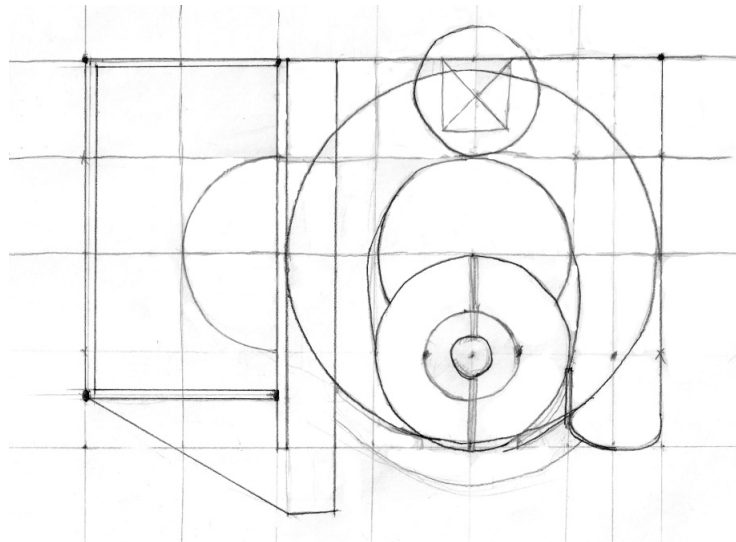
Initial Thumbnails

Concept Drawings

This precedent managed to establish **two distinct areas** of use while seamlessly joining them into **one cohesive structure** using the five points of architecture. The arrangement of simple geometry is implemented in such a way that it expresses **both cohesion and uniqueness** of form and color in specific areas of the overall design.



Physical Model of Previous Iteration



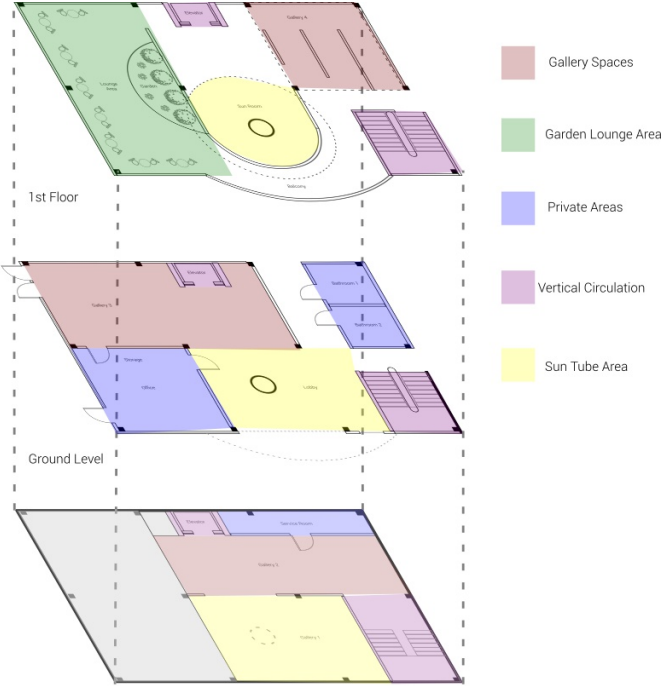
Pre-design Gallery Sketch

Located behind Harbor Park, The Sun Gallery is a public open pavilion art gallery where the architecture and name is representative of the famous modern architect Le Corbusier. Incorporating his **5 points of architecture**, students would use his principles and expand upon them to design a 3-story art gallery. From Le Corbusier's design of combining separate basic geometries together (the rectangle

and circle) into one cohesive structure, it allowed me to come up with the idea to center the building around the sun. After much time of critique and iteration, I realized that instead of forcing the geometries to work together, the forms would instead flow better together through the circulation of how people would travel from gallery to gallery.



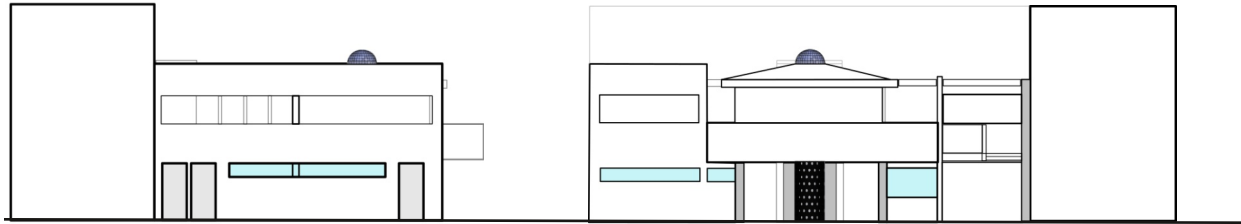
Context View



Exploded Axon Diagram

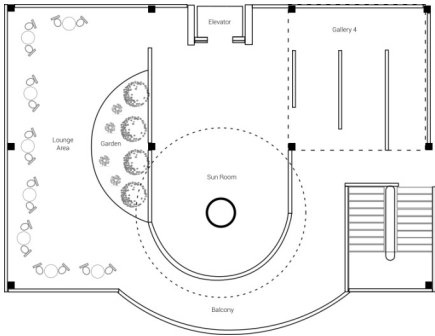


Site Longitudinal Section

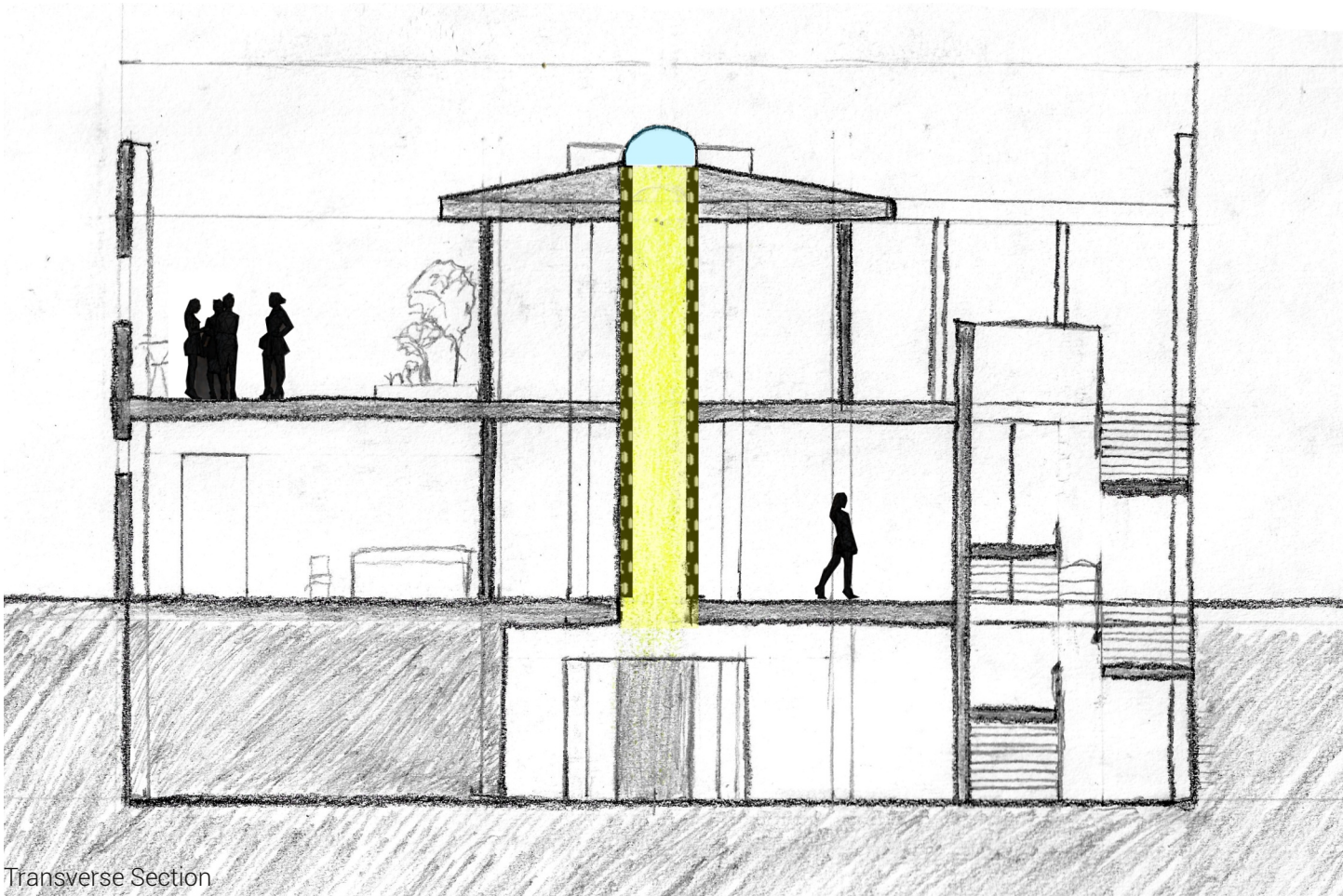


West Elevation

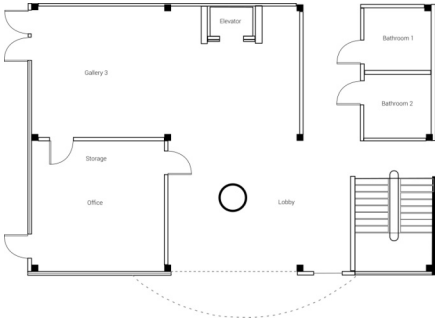
South Elevation



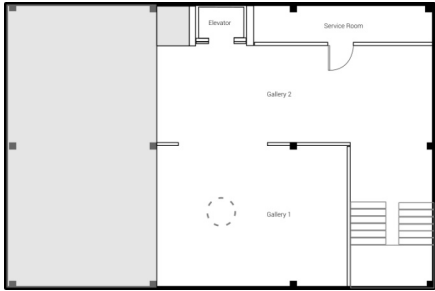
Roof Garden



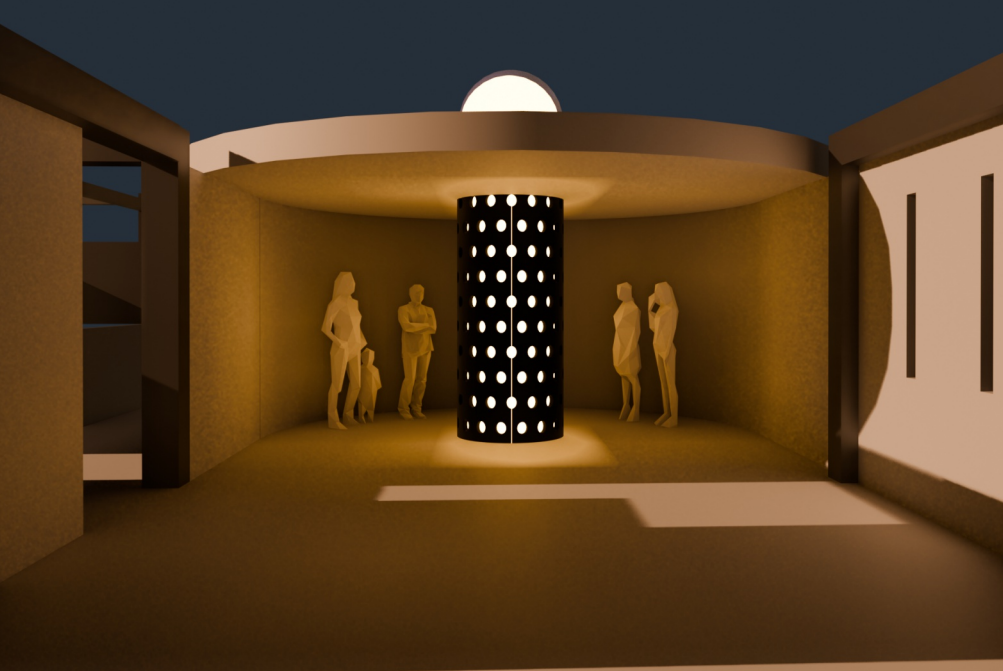
Transverse Section



Ground Level



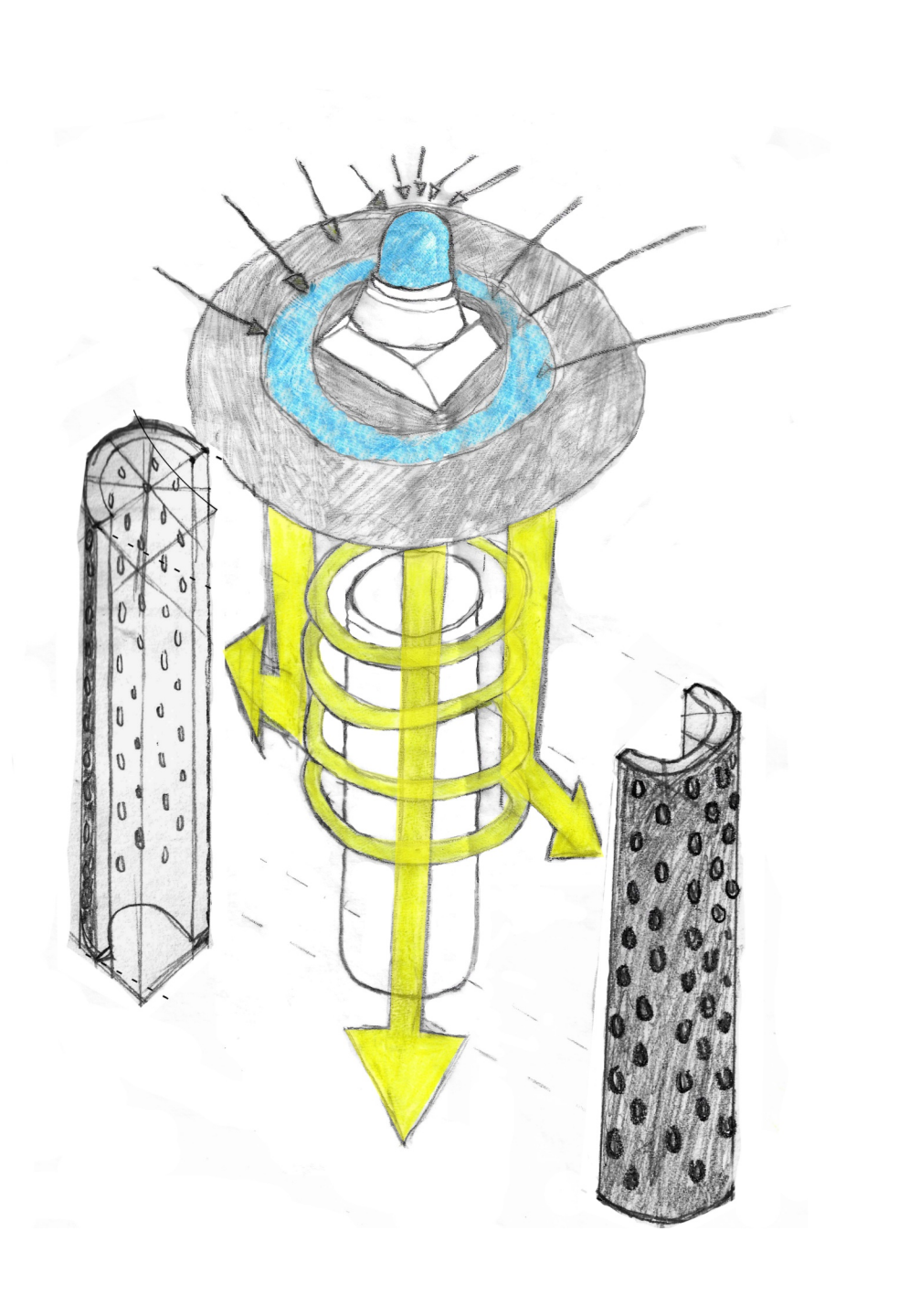
Below Ground Level



Sun Room Perspective(Roof Garden)



Below Ground Level Perspective(Mix AI)



Initial Concept Exploded Diagram