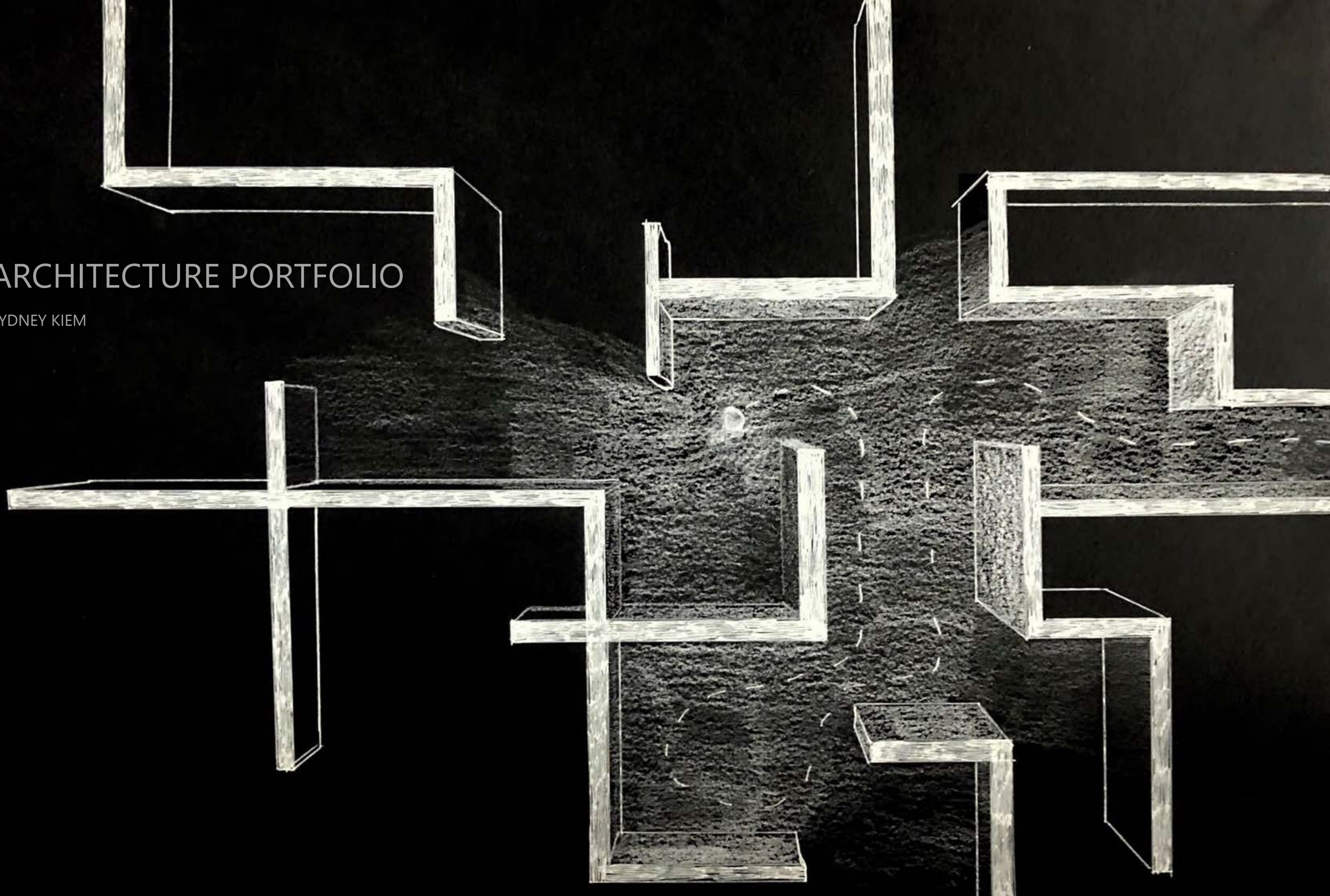


ARCHITECTURE PORTFOLIO

SYDNEY KIEM



SYDNEY KIEM

• architecture student •

CONTACT

(703)-966-4926

SYDMK1@VT.EDU

WWW.LINKEDIN.COM/IN/
SYDNEYKIEM

WEBSITE: SYDNEYKIEM.COM

PROFILE

I am a fifth-year architecture student striving to become a licensed and LEED-certified architect through Virginia Tech's School of Architecture + Design. I am looking for opportunities where I can use my skills and gain knowledge of all aspects of the design and construction process.

INVOLVEMENT

**ARCHITECTURE GUIDES
STUDENT PRESIDENT**
VIRGINIA TECH SCHOOL OF
ARCHITECTURE | MARCH 2022-
PRESENT

Started a new outreach program for Virginia Tech's School of A+D to give tours and answer questions from high school students interested in architecture.

AWARDS

- **VIRGINIA TECH**
• DEAN'S LIST: FALL 2019 -
SPRING 2022
- INTEGRATIVE DESIGN
COMPETITION FINALIST
SPRING 2022

EXPERIENCE

ARCHITECTURE INTERN
2-POV ARCHITECTURAL STUDIO LLC | JUN 2022 - AUG
2022

- Assisted project architect with work
- Maintained clean graphics for sheets
- Assisted with existing site surveys

ARCHITECTURE INTERN
WENDEL COMPANIES | MAY 2021 - DEC 2021

- Assisted project architect with work
- Maintained clean graphics for sheets
- Produced schematic ideas
- Reviewed submittals
- Executed renderings through Revit, Enscape, and
Photoshop
- Researched energy code and ADA requirements

TENNIS DESK RECEPTIONIST
SPRINGFIELD GOLF AND COUNTRY CLUB | JUN 2016 -
AUG 2019

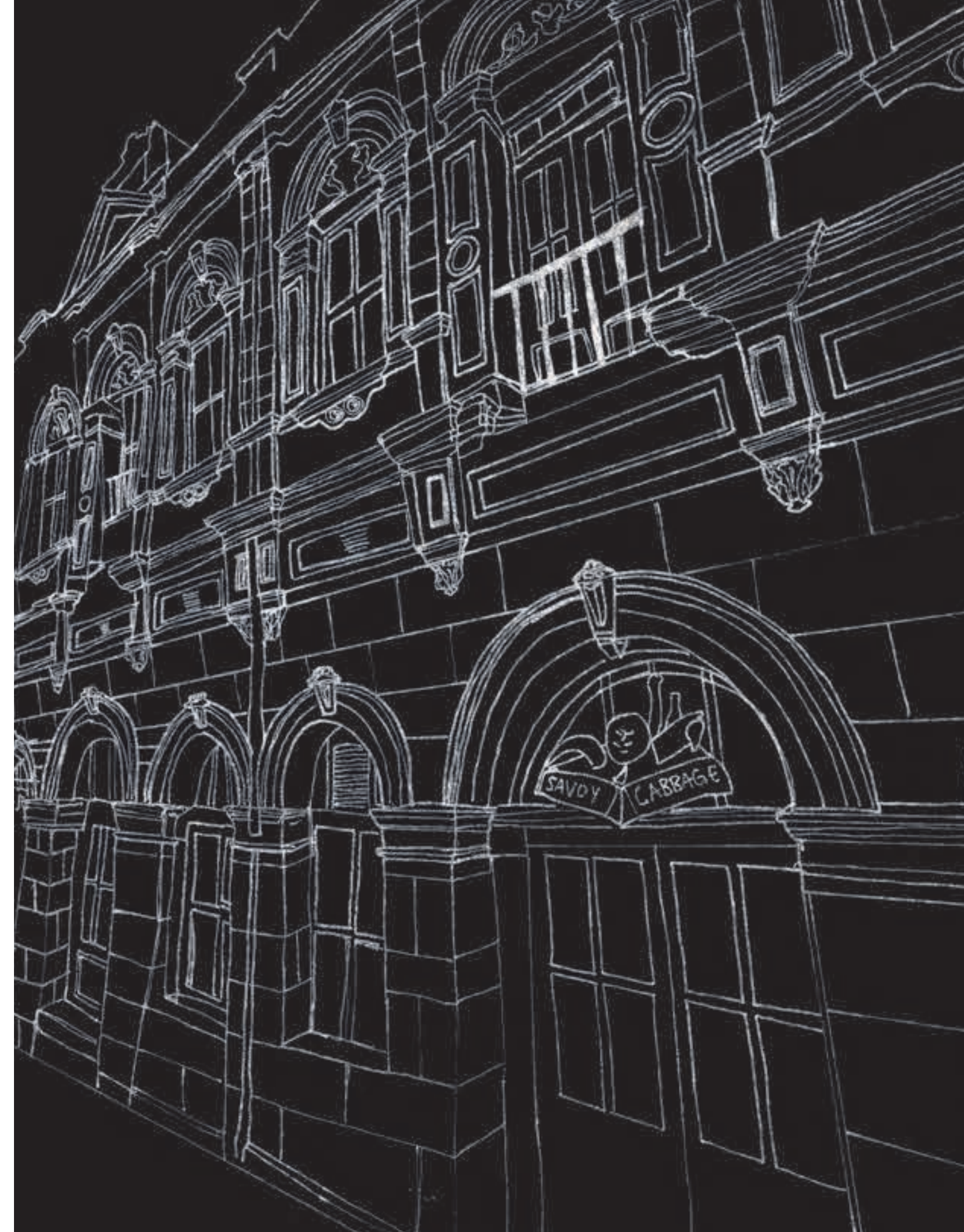
- Made charges for court times and purchases at the
tennis shop
- Scheduled court times for members, answered the
phones, and cleaned the courts

EDUCATION

BACHELOR OF ARCHITECTURE
VIRGINIA TECH | SPRING 2023
GPA: 3.7

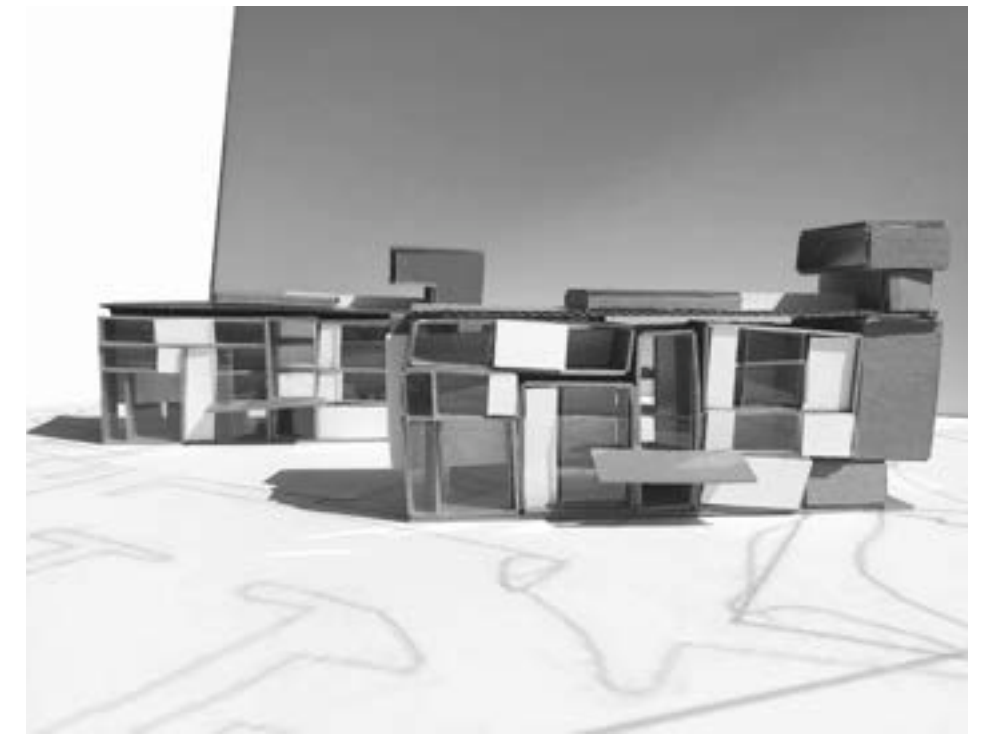
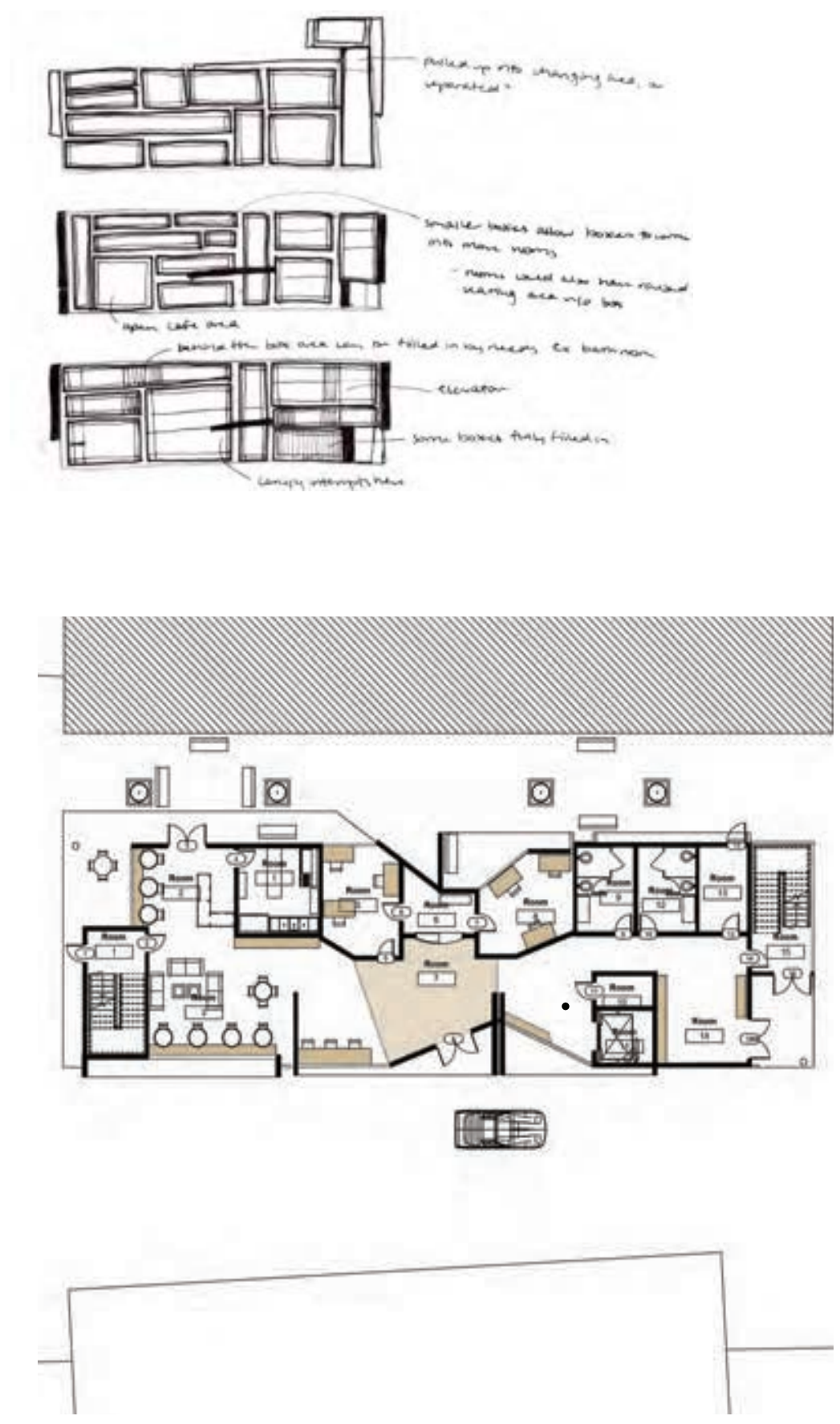
SKILLS

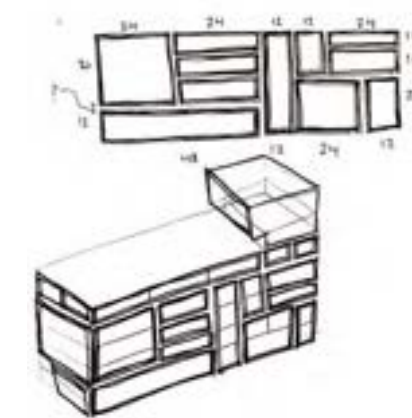
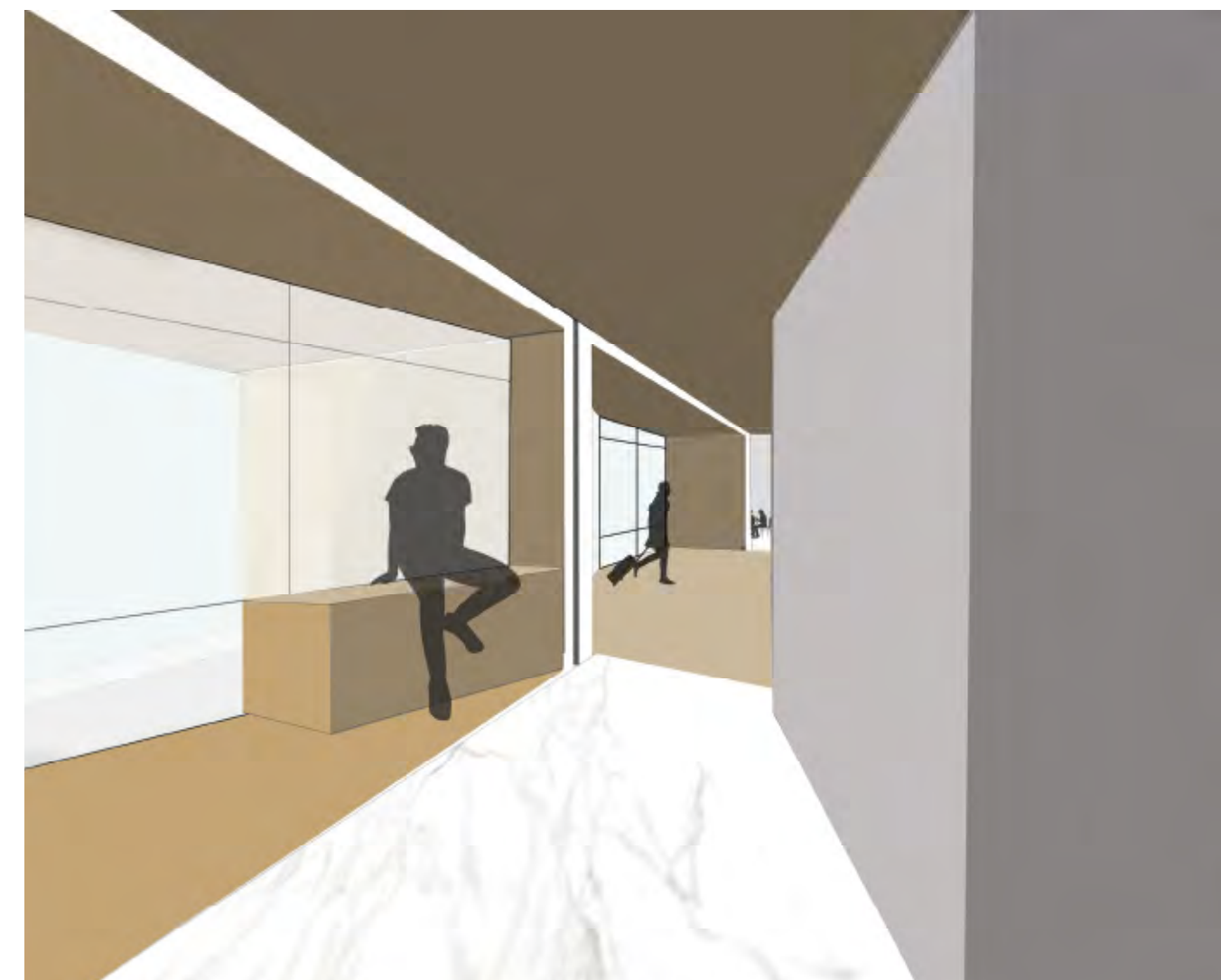
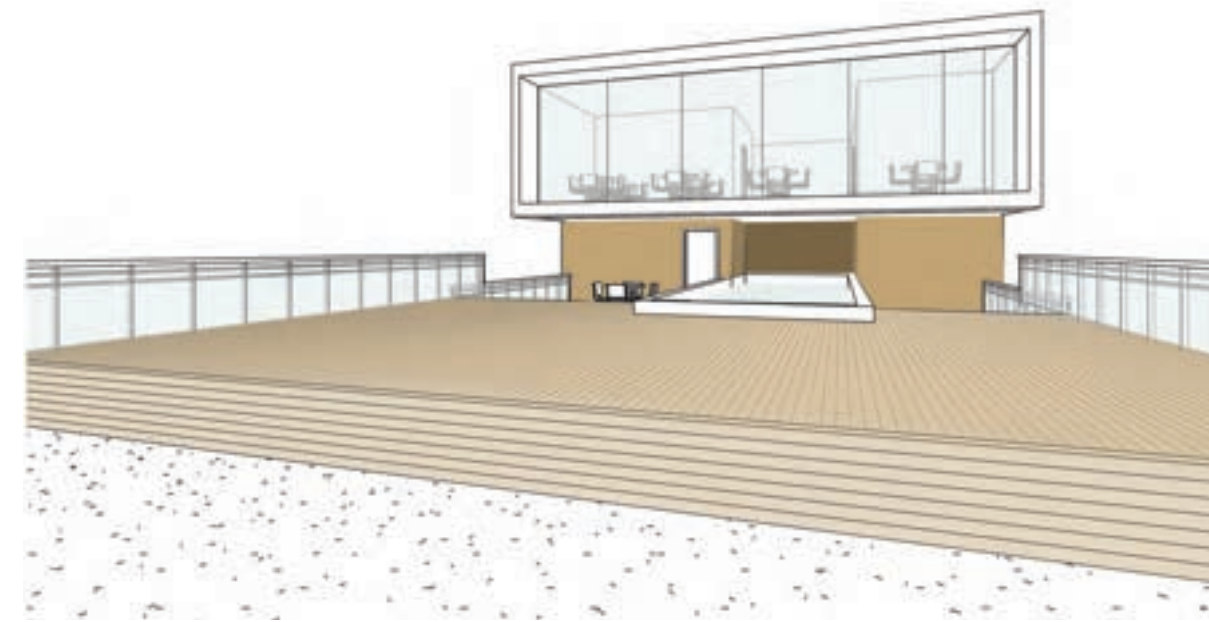
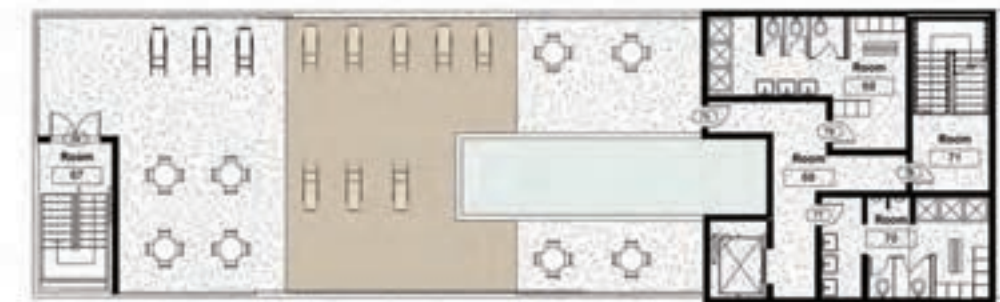
- AutoCAD (5 years)
- Revit (5 years)
- Bluebeam
- Hand drafting
- Customer service
- Model-making by hand,
Lasercamm, and 3D printing
- Conceptual design
- Adobe Creative Suite
- Organization and time
management

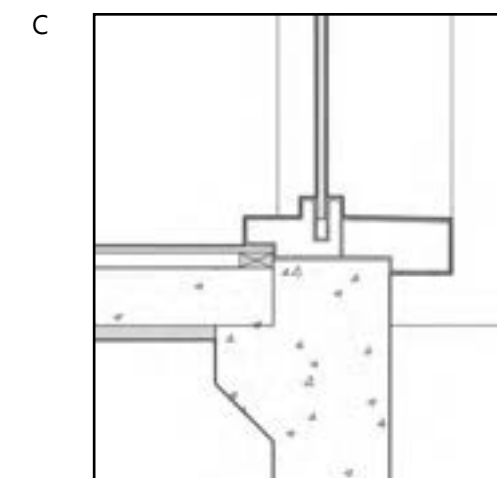
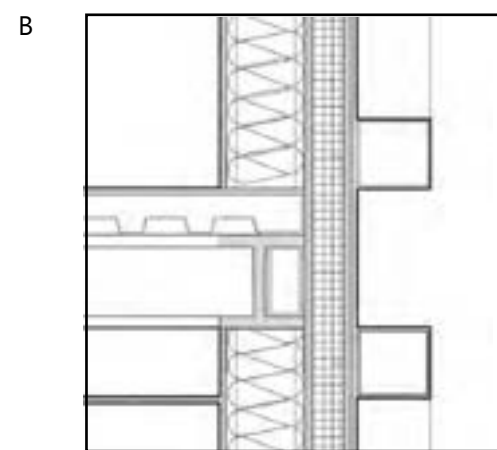
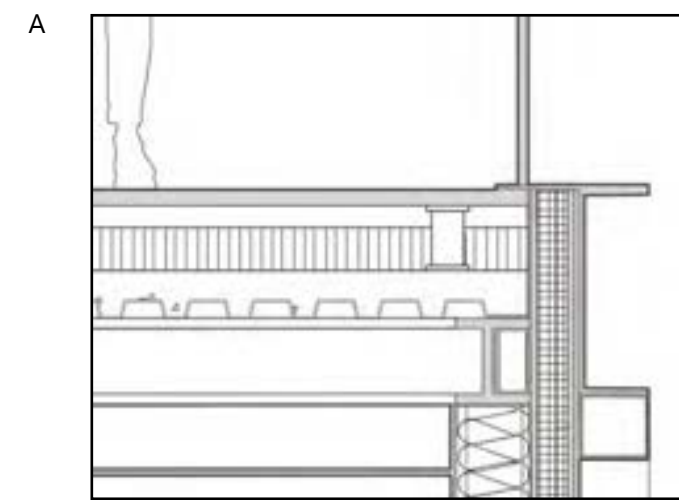
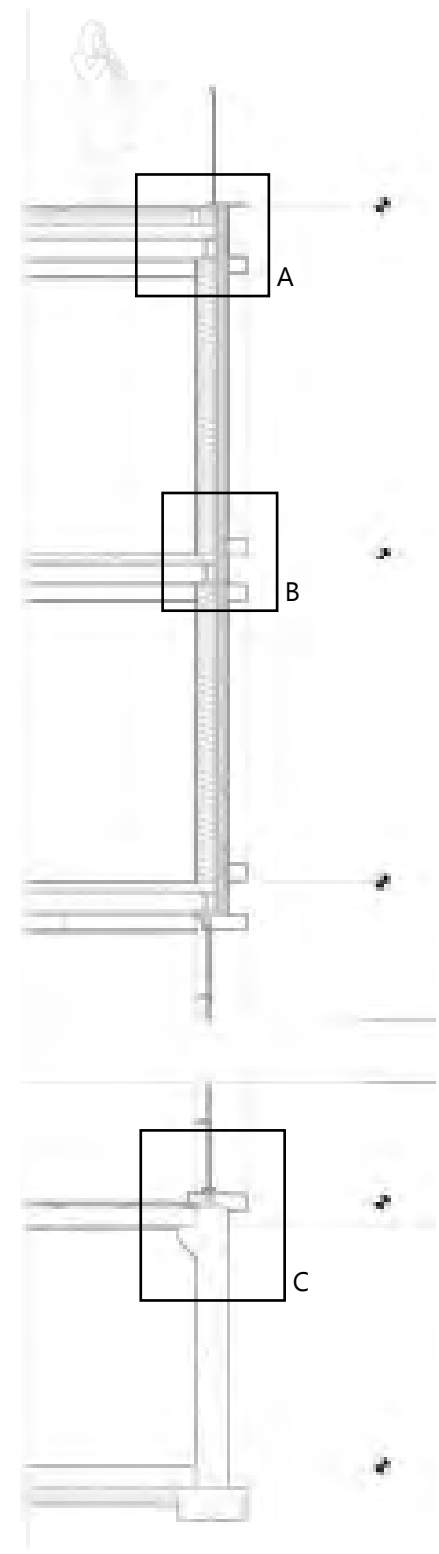


Downtown Hotel

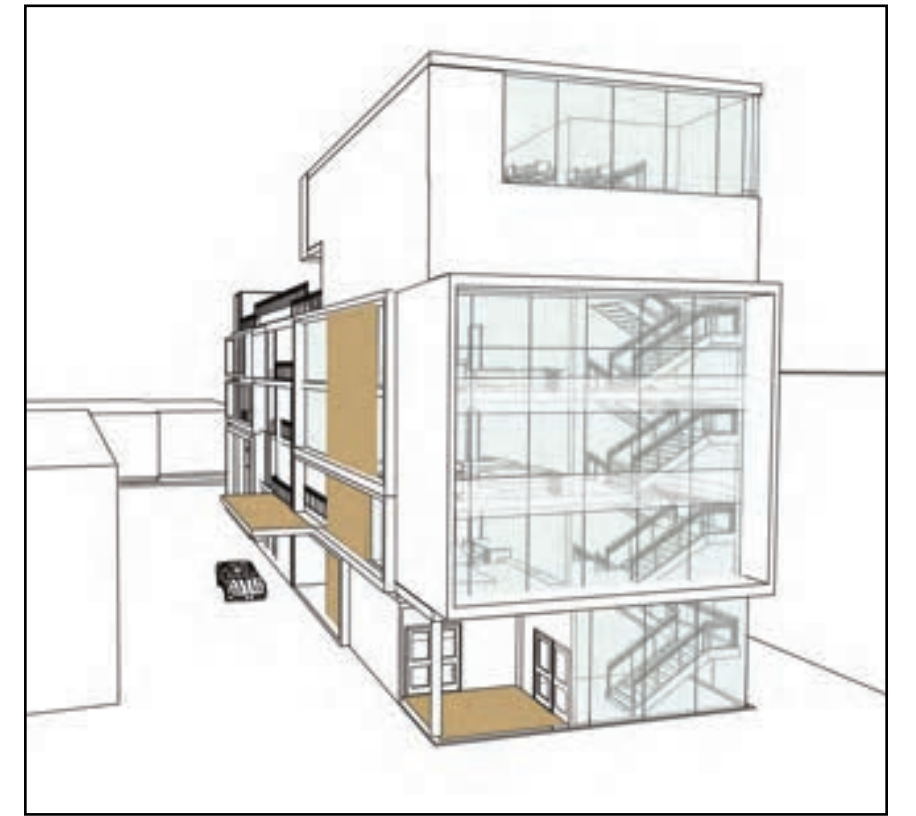
Timeline: 15 weeks
Year: Third Year
Overview: 18 room hotel in downtown Blacksburg located between Wells Fargo and Sharkey's with a limit of 120'L x 35'W x 60'H, excluding drive-through overhang. The rooms consist of 8 double bed rooms, 8 king bed rooms, and 2 suites. The first floor includes a waiting area, offices and check-in, storage space, and a small cafe with seating. The roof has a pool, outdoor seating on a wood deck, locker rooms, and a bar looking out onto the pool and Main Street.





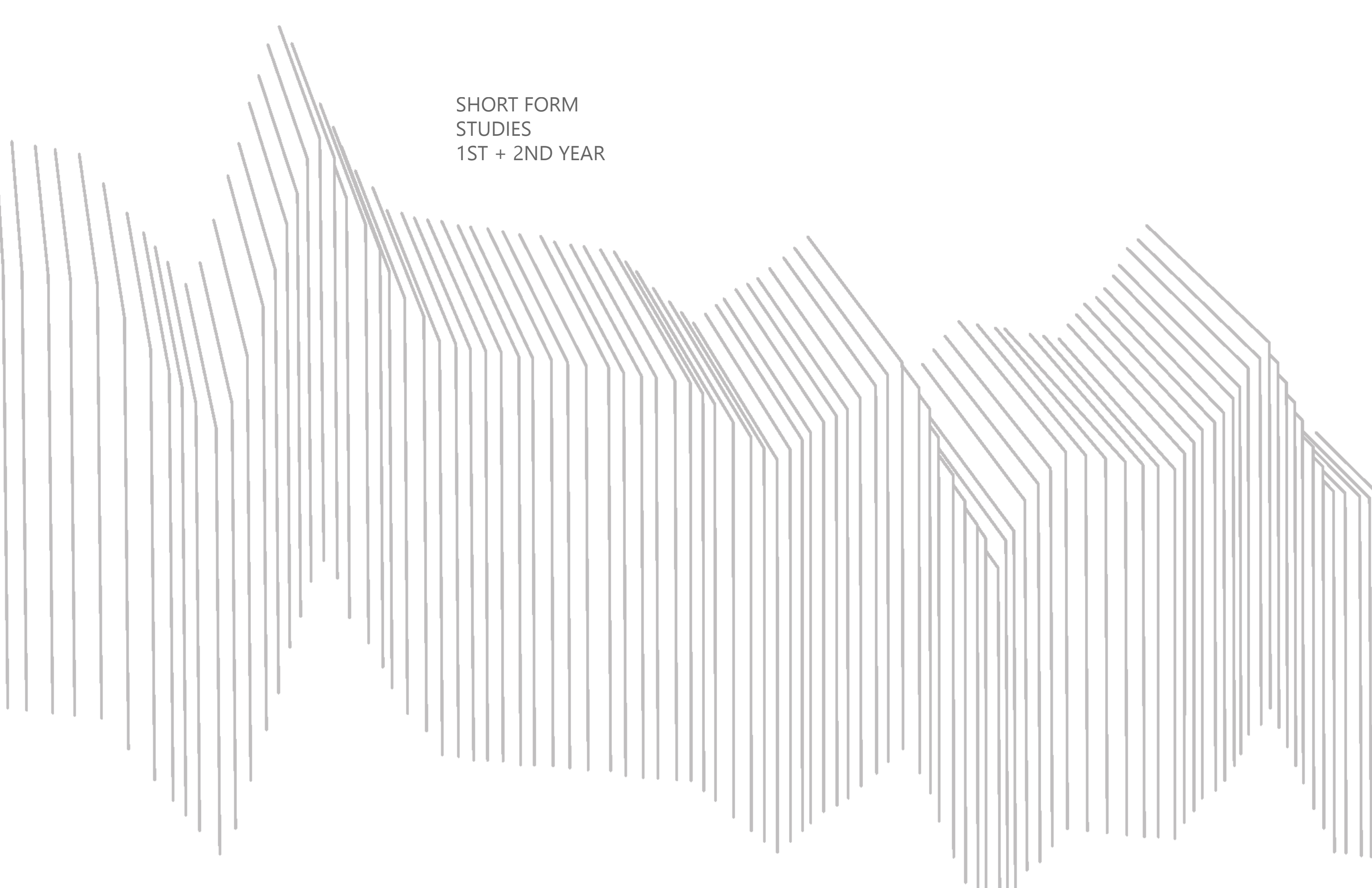


Frames reveal the organization of the hotel to passersby, and the Main Street facade is pulled back on the first floor, allowing for a less intimidating meeting with the street.





SHORT FORM
STUDIES
1ST + 2ND YEAR

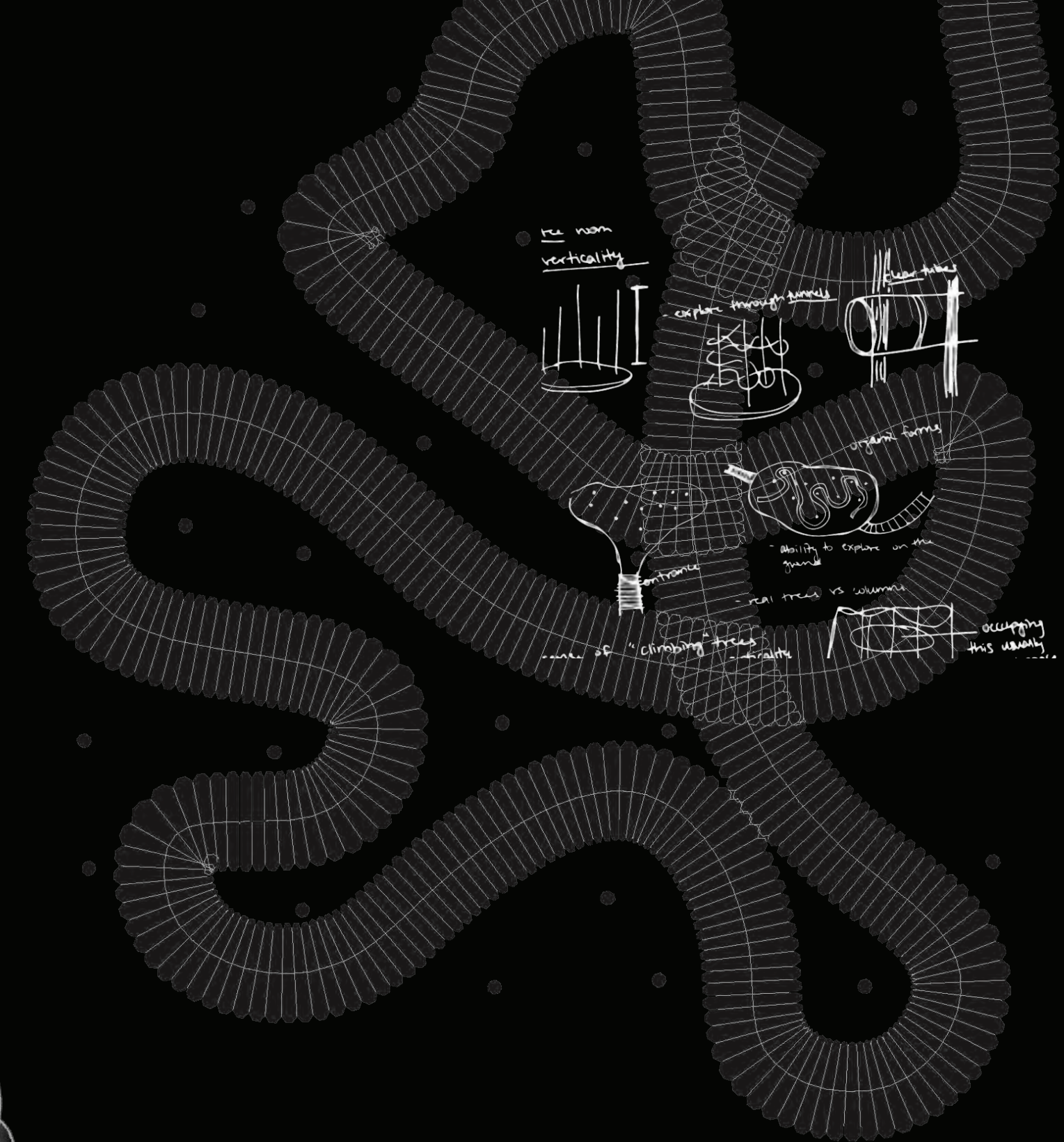


Nature Museum

Timeline: 6 weeks

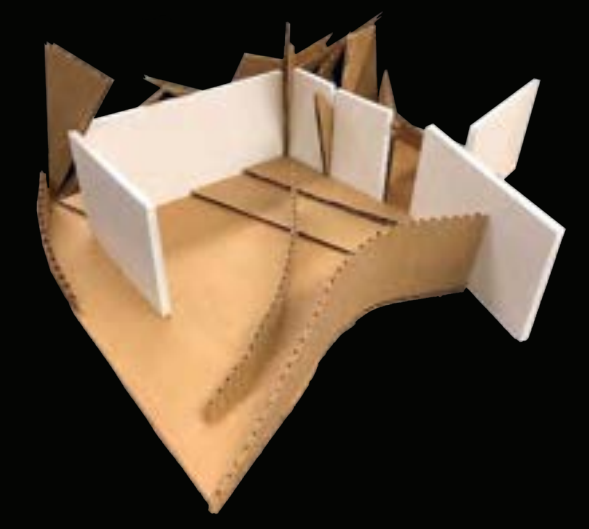
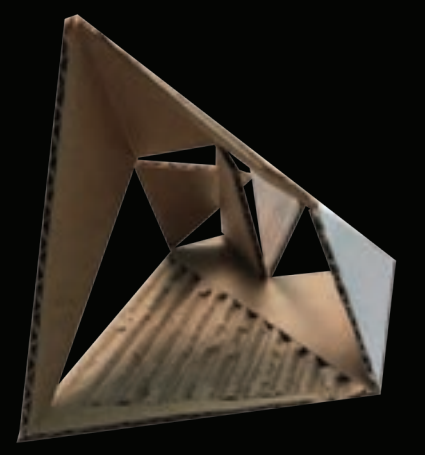
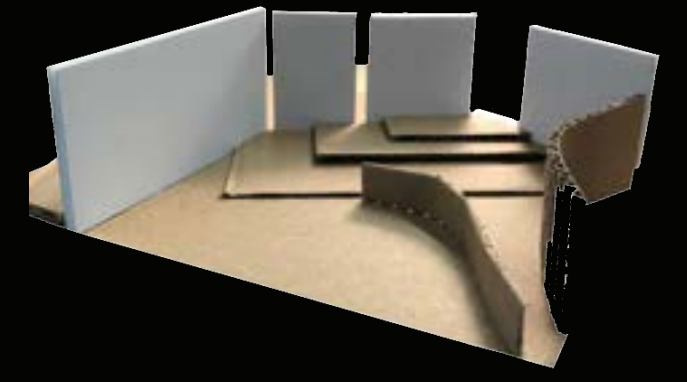
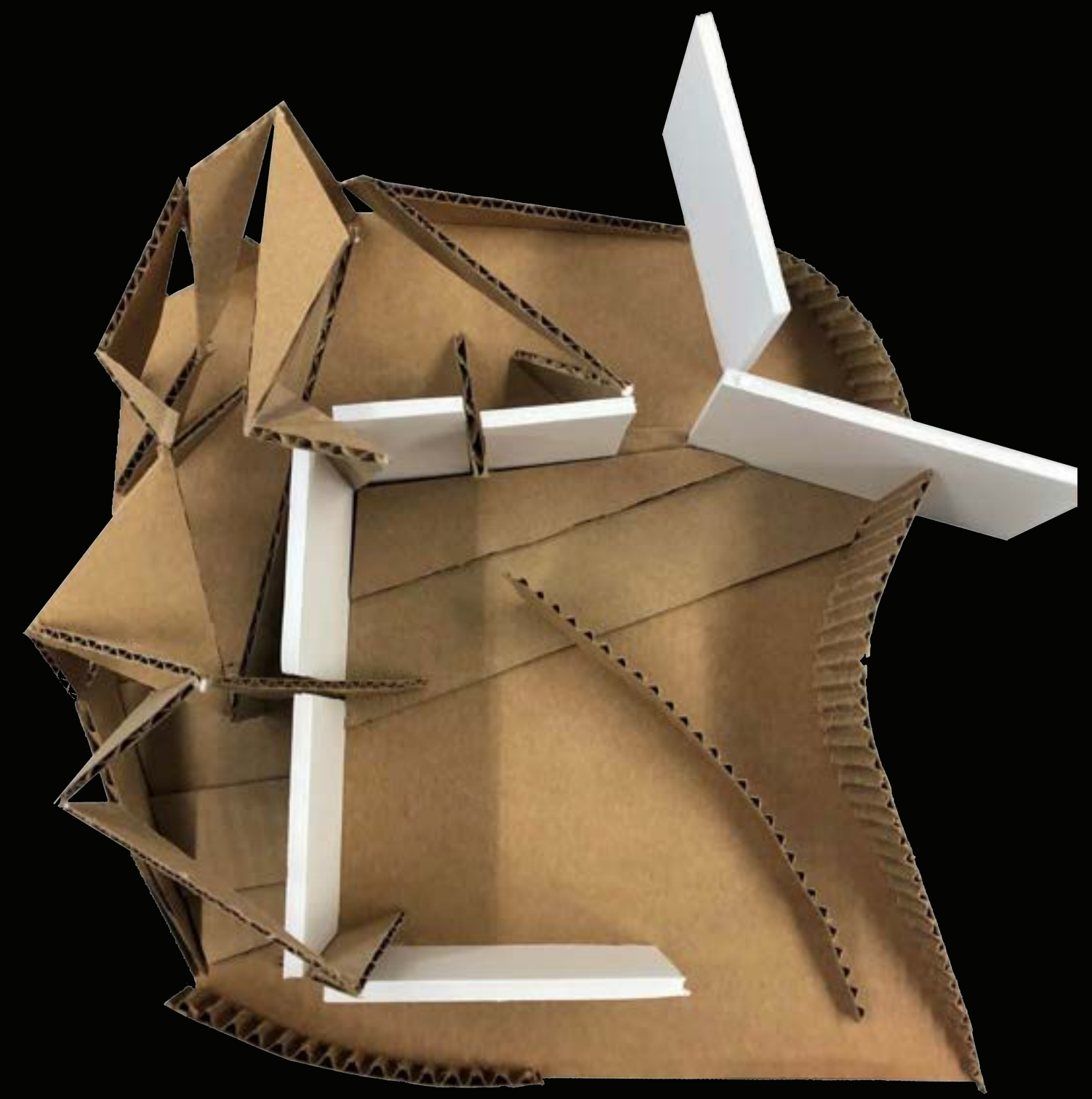
Questioning what a room can be

When I think of museums, the concept of interaction is vital to me for an experience that people don't forget. This project looked at five rooms that studied the nature around them. My main focus was on a tree room, which makes use of the space between the trees forty feet up that is never used by humans. Tubes that wind around the trees and gradually upwards make it possible for humans to exist in this space and to observe trees from new heights.



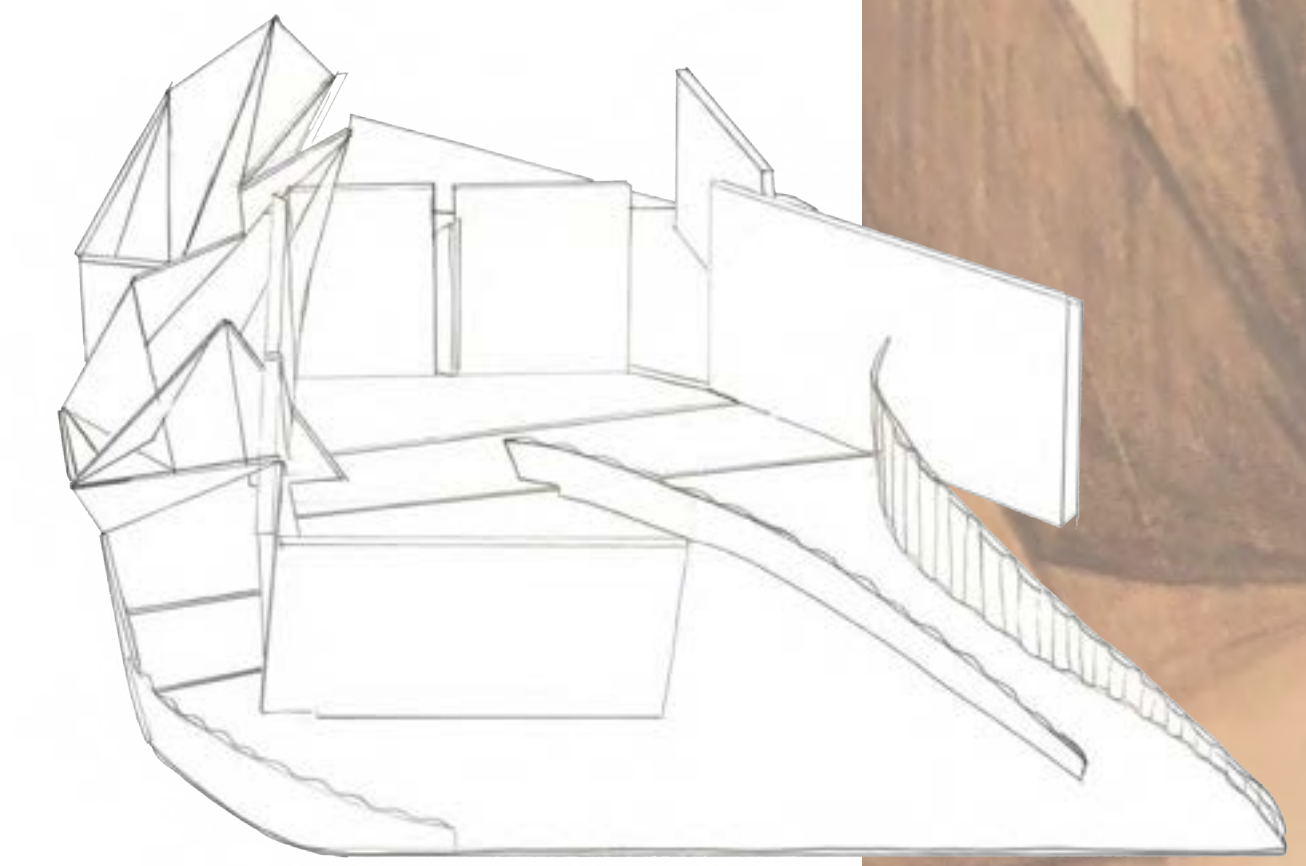
Discovery Pathway

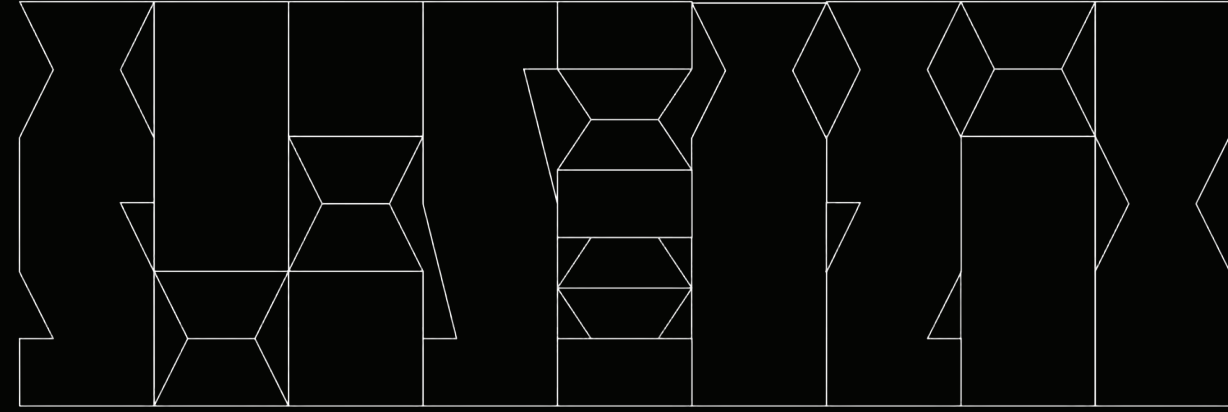
disruption: problems or events which interrupt an activity, process, or event



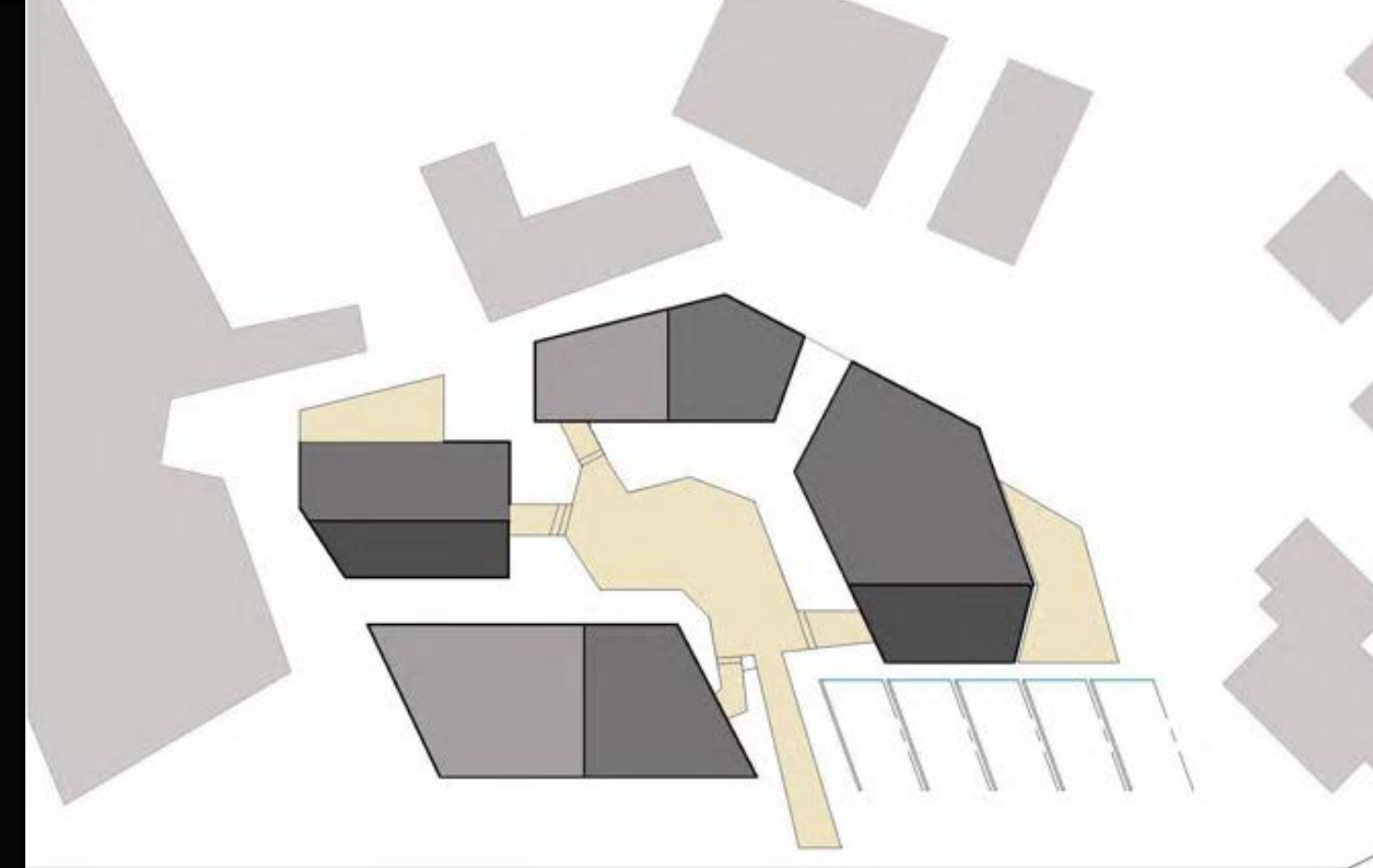
Prompt: Create a path that has a "quiet space" along the way
Year: First Year
Timeline: 5 weeks

Process: After studying the qualities of paths around campus, the first model explored the idea of ascension and descension throughout the path, which led into further separating spaces through hard and soft boundaries. The hard boundaries control the path and give hints at what is to come, while the soft boundaries guide the visitor along. The quiet space is a series of touching triangles inspired by a Diebenkorn model study. Visitors explore and can pause in the nooks created.

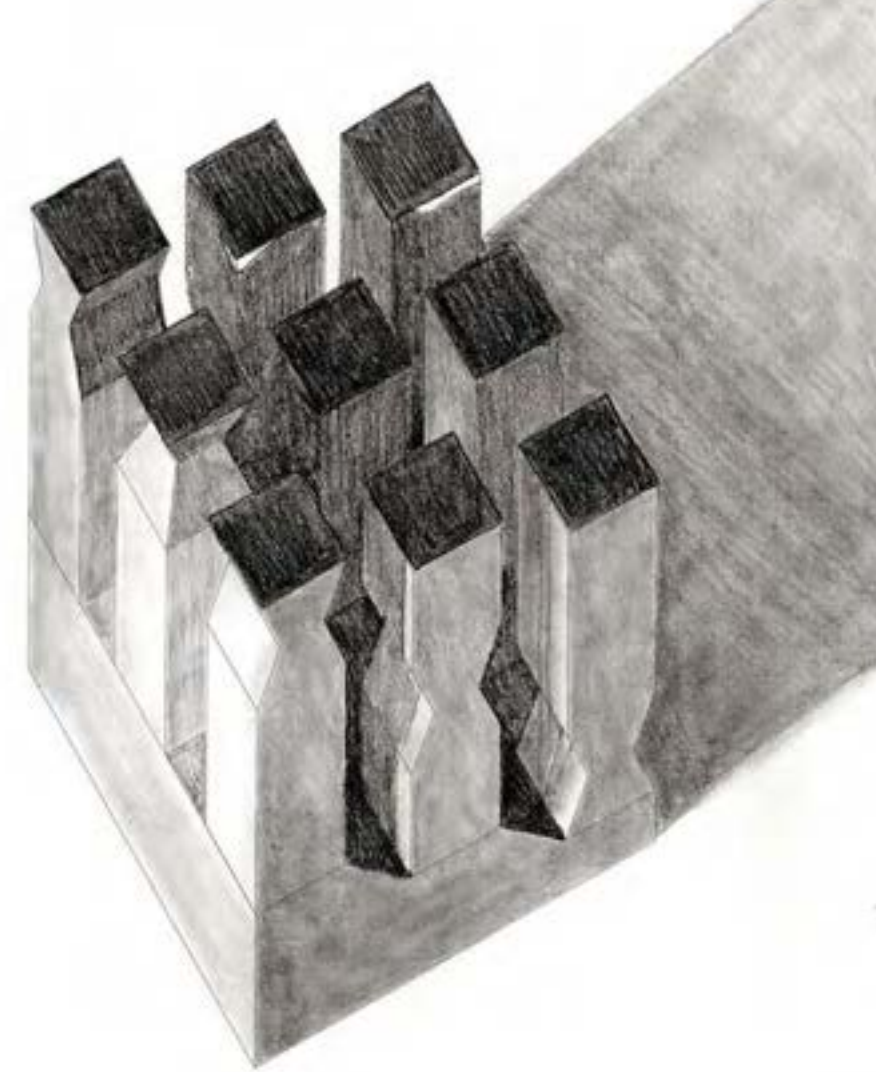




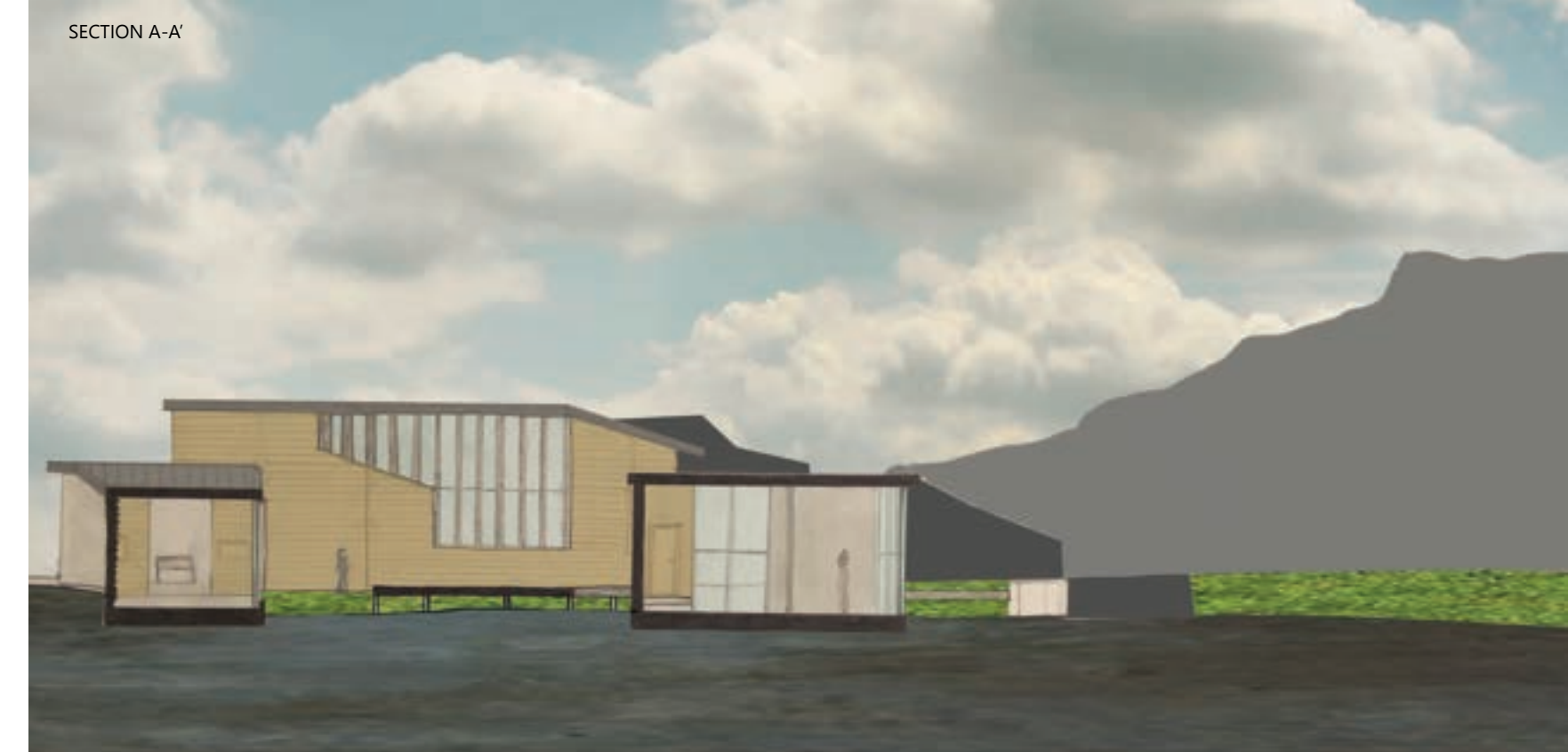
Nine Towers



Prompt: Design a family of nine towers with consideration of the space created between them.
 Year: First Year
 Timeline: 5 weeks
 Tools used: Rhino and bristol paper



SECTION A-A'



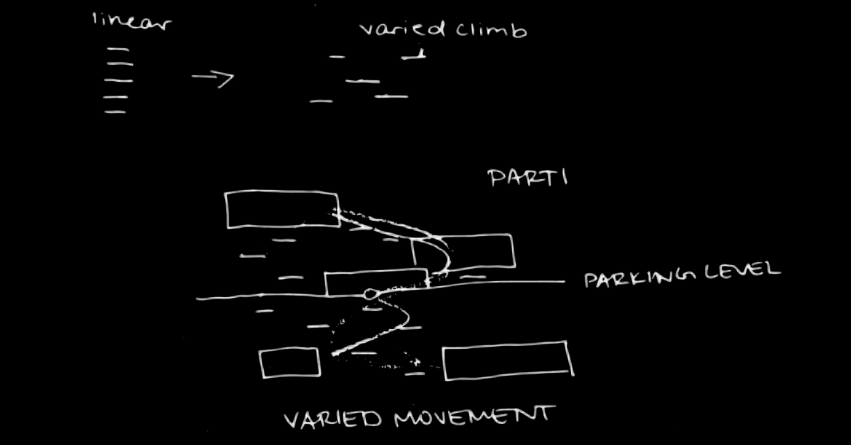
SECTION B-B'



Cambridge Street

Timeline: 6 weeks

This residential neighborhood has row houses as well as single family units. As shown in the figure ground, there are varying levels of density around the site. The site slopes down to the north where there are views of the bay. Table Mountain can be seen from the south side.
 The goal of the intervention was to make the residential area more dense by introducing several commercial buildings on the site. These buildings are the studios of four different maker profiles: an artist, glassblower, graphic designer, and photographer.



RAUMPLAN: planning method based on discrete rooms and a dynamic section.



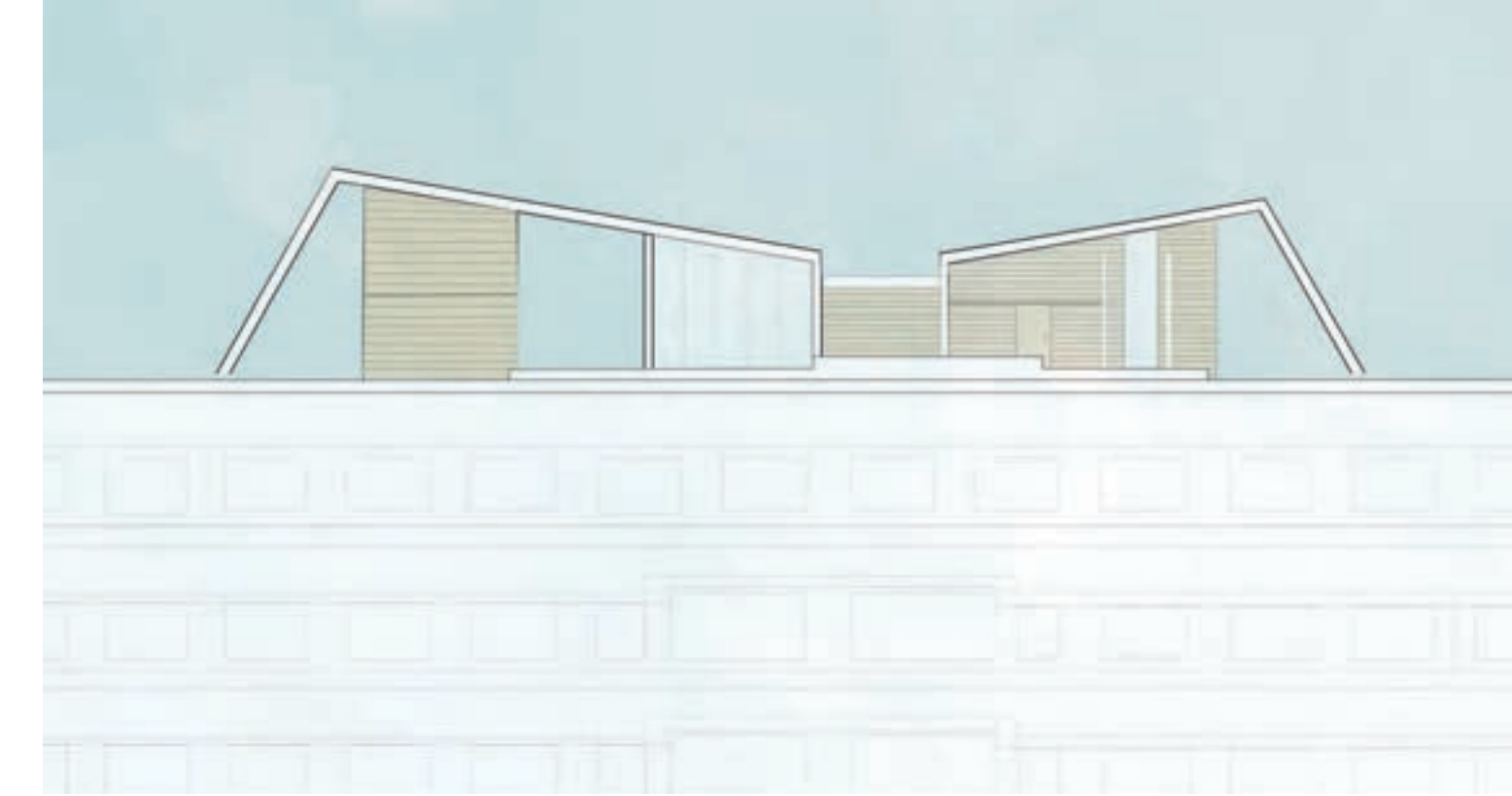


Newman Apartment

Timeline: 15 weeks

Year: Third Year

Overview: Housing and garden situated on Venturi's addition to Newman Library in Blacksburg, Va. It is intended for a teaching assistant to reside, teach, and work. The floorplan should be around 1,000 sq.ft., and an area to host a small gathering of people should be included. In order to access the building, an exterior stair should be added onto Newman Library.



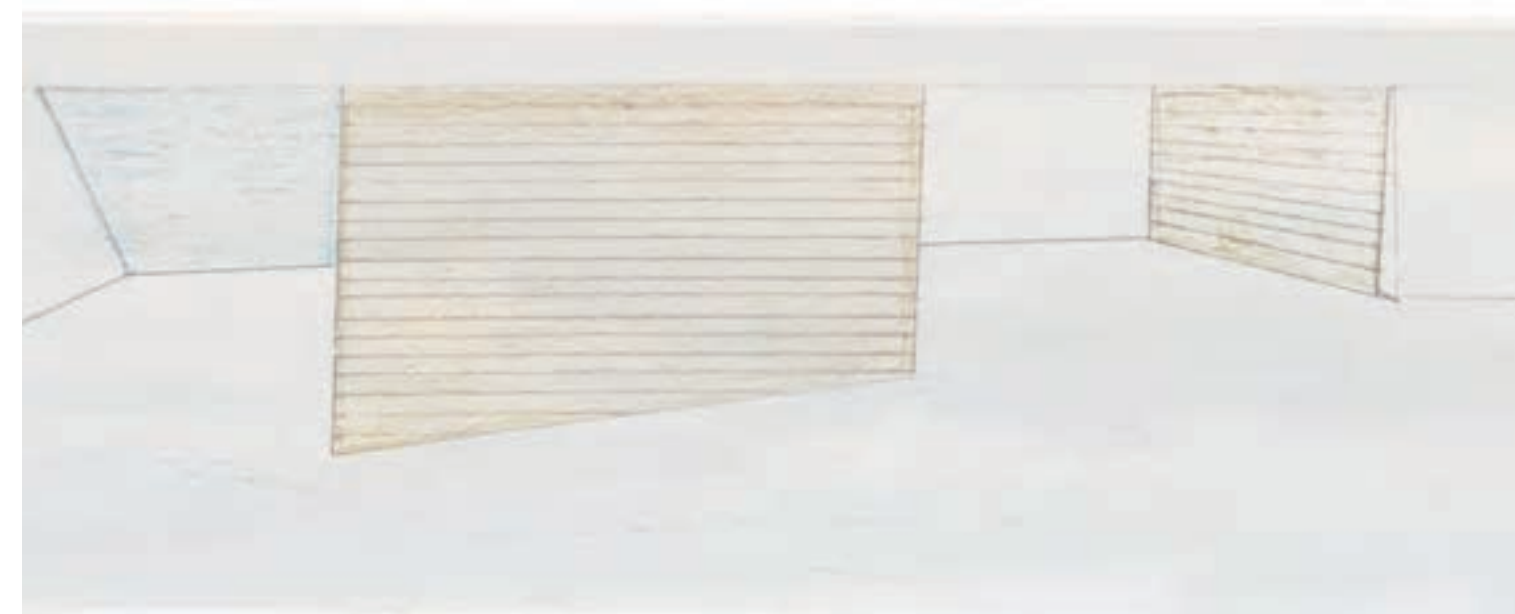
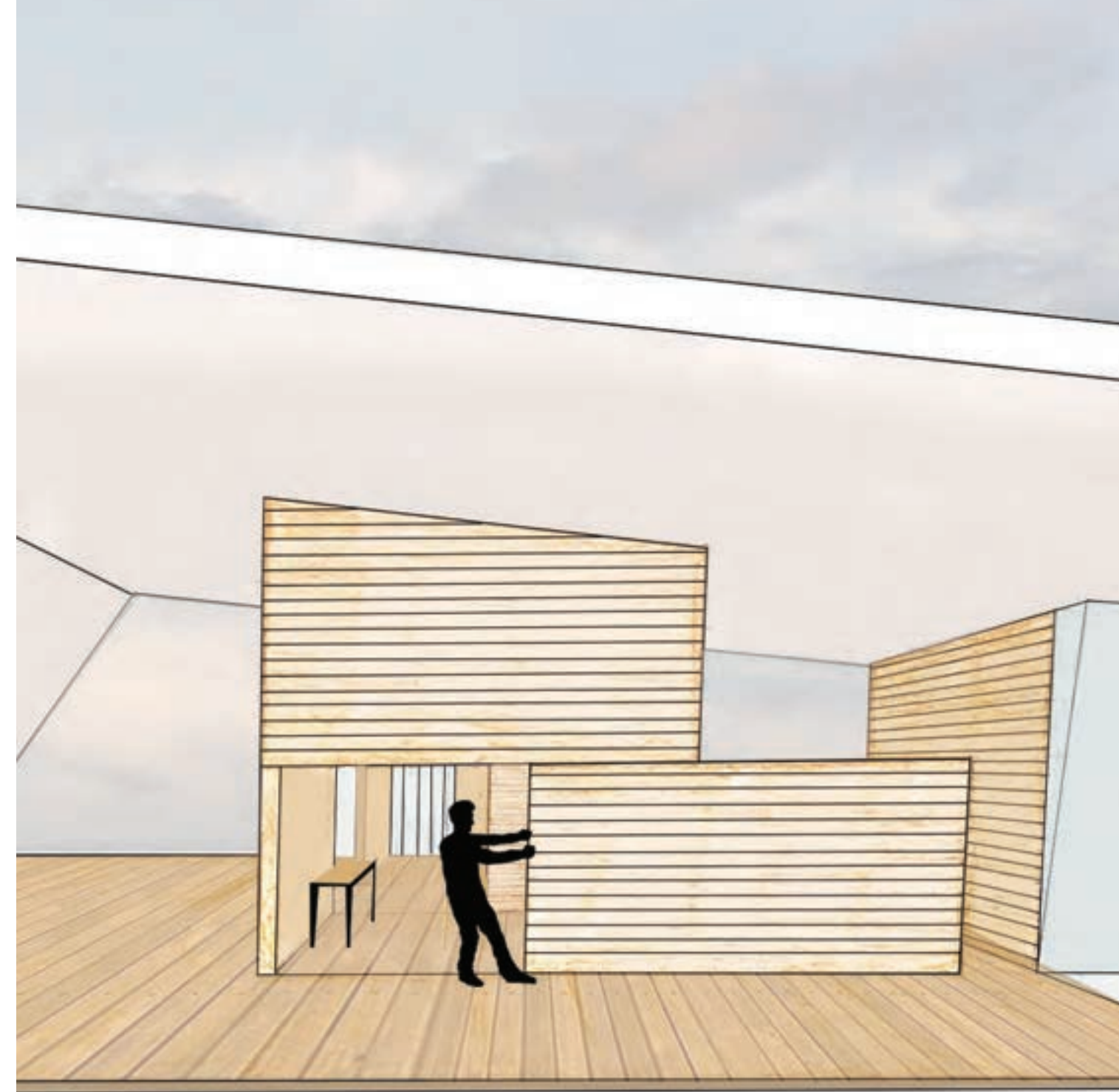


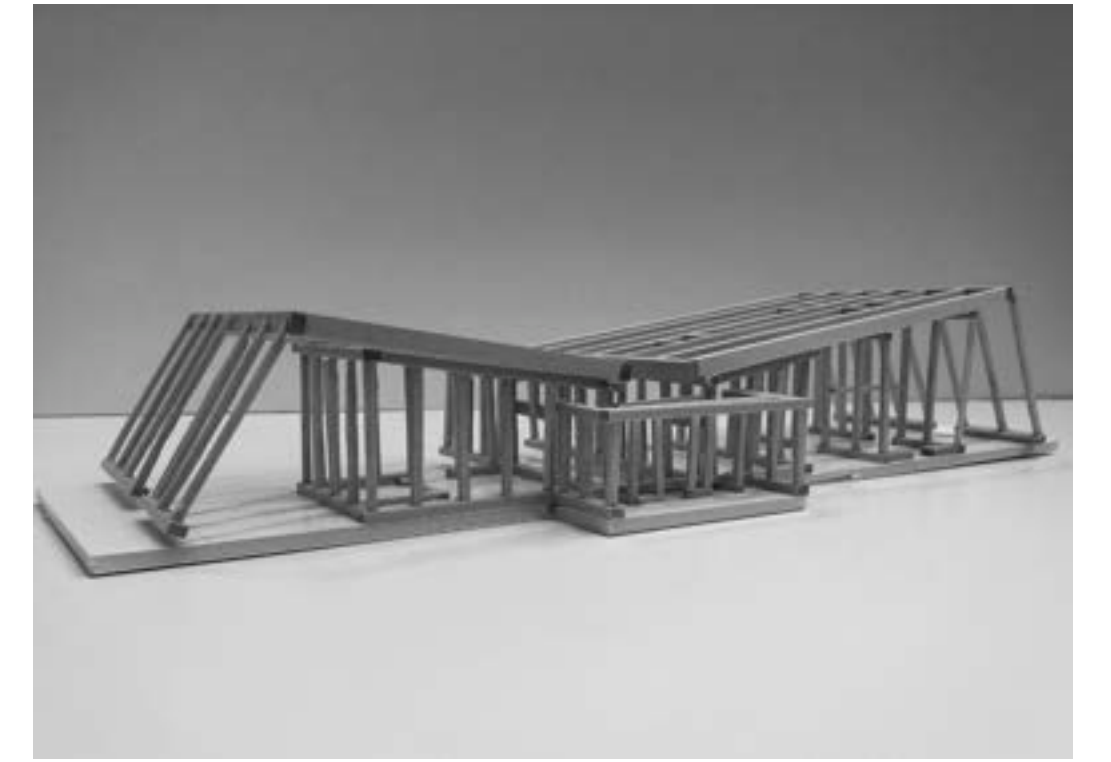
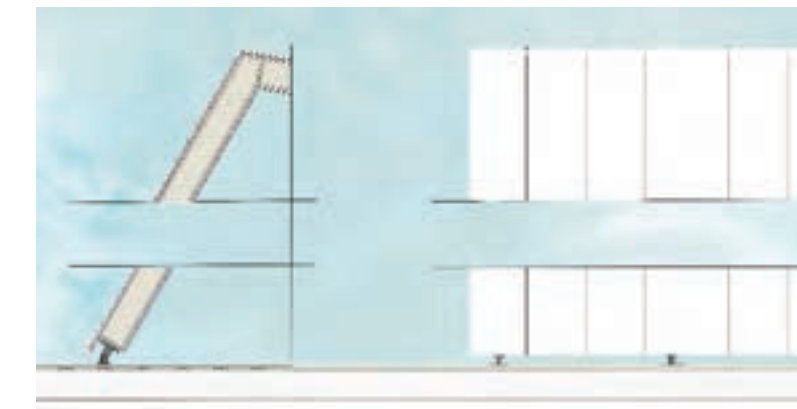
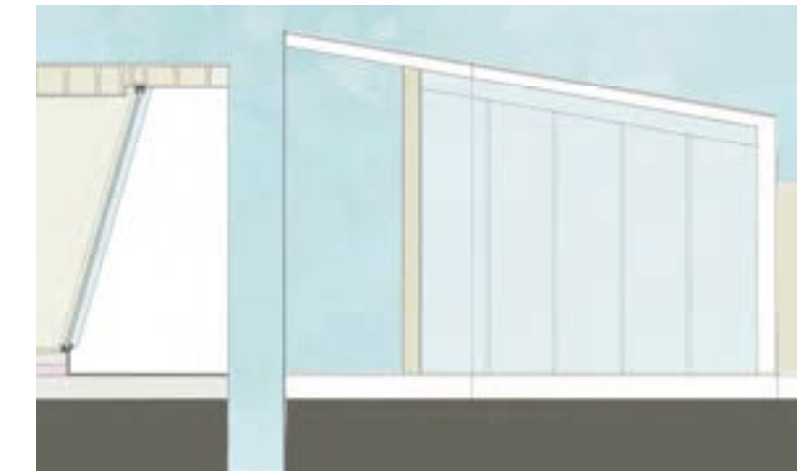
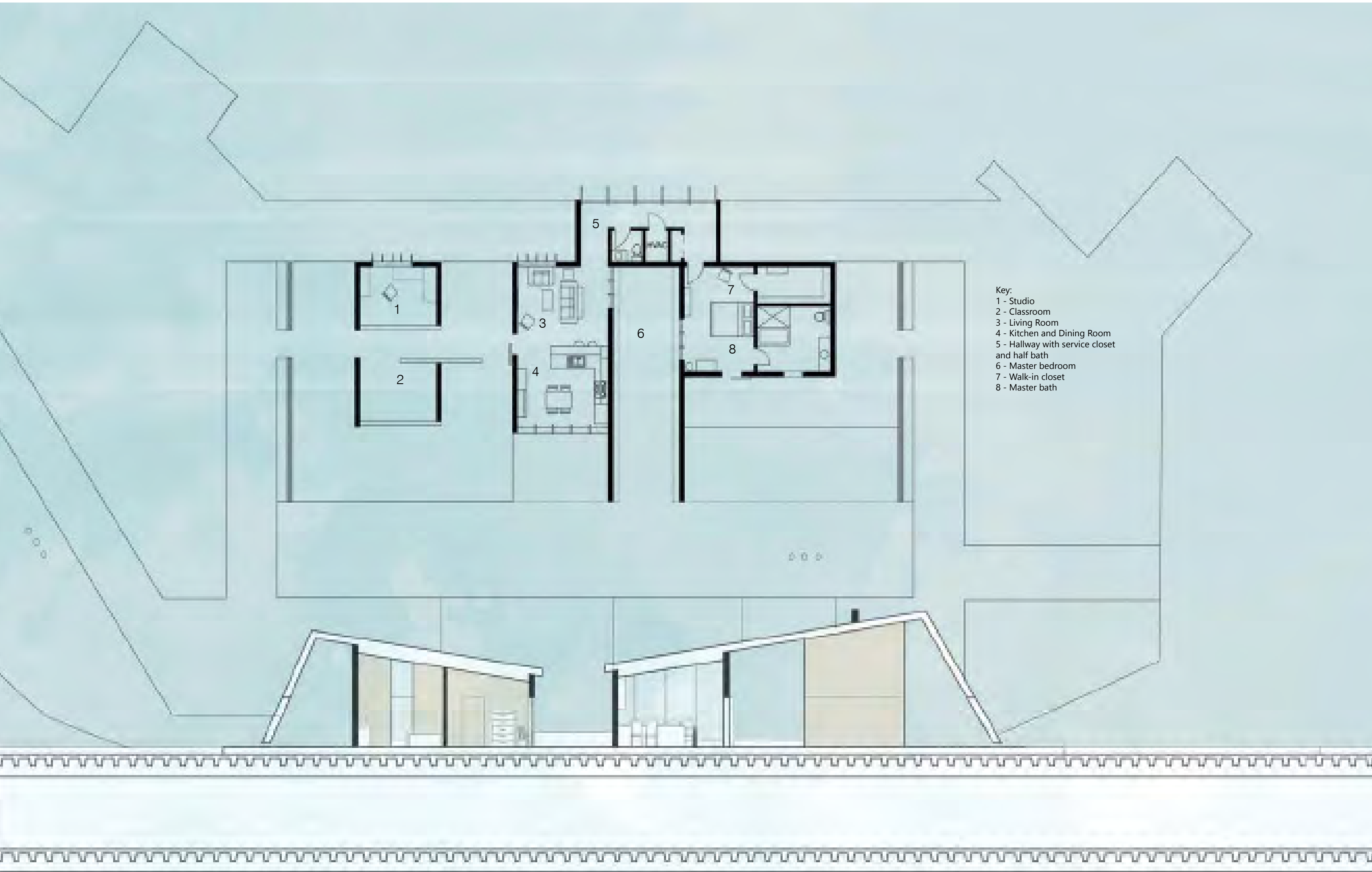
Main architectural idea: roof and reflection pool

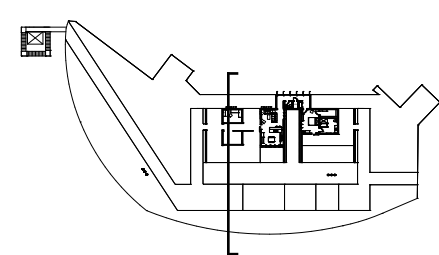
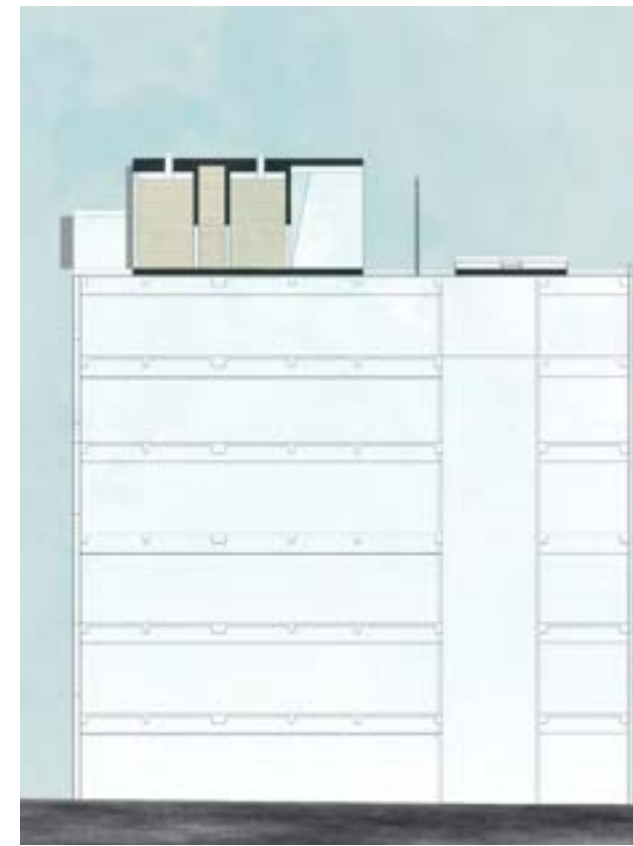
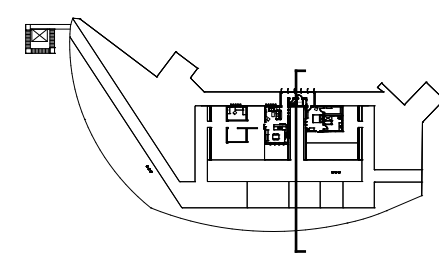
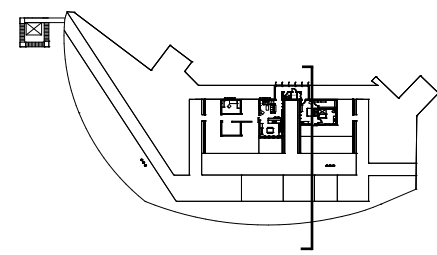
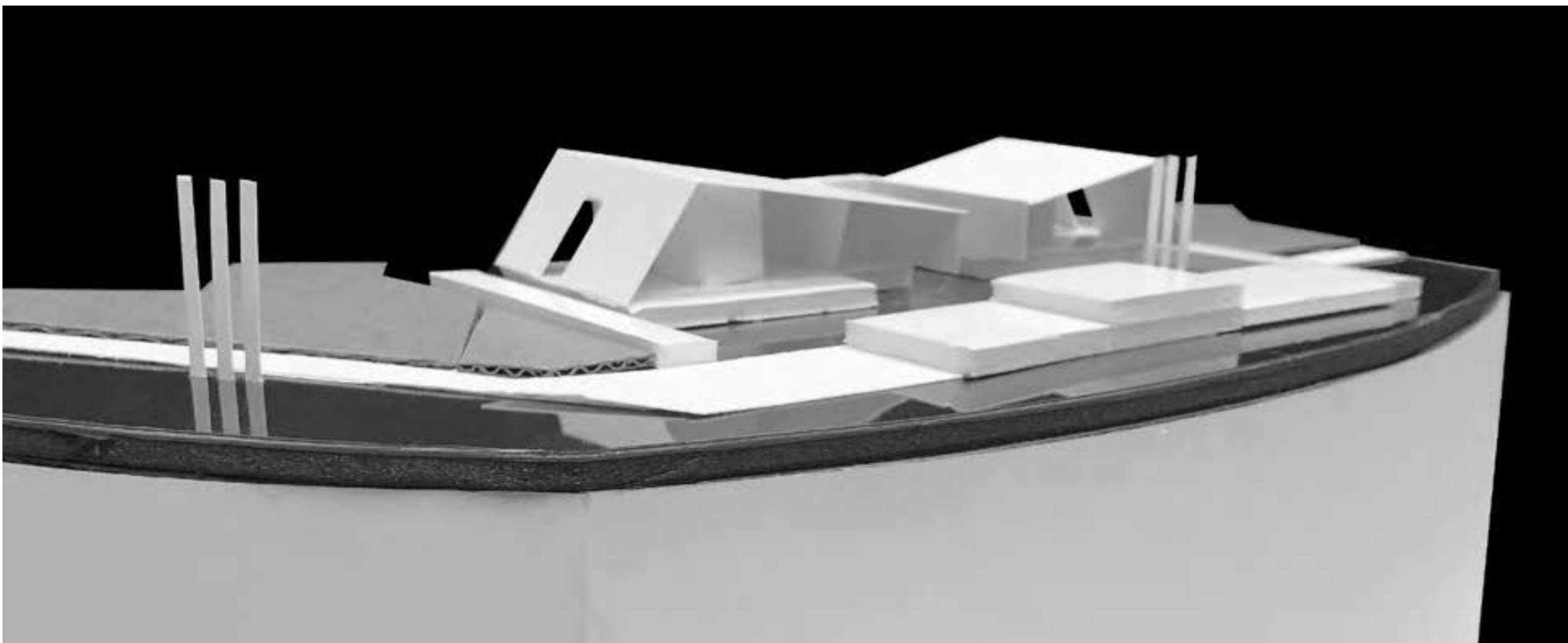
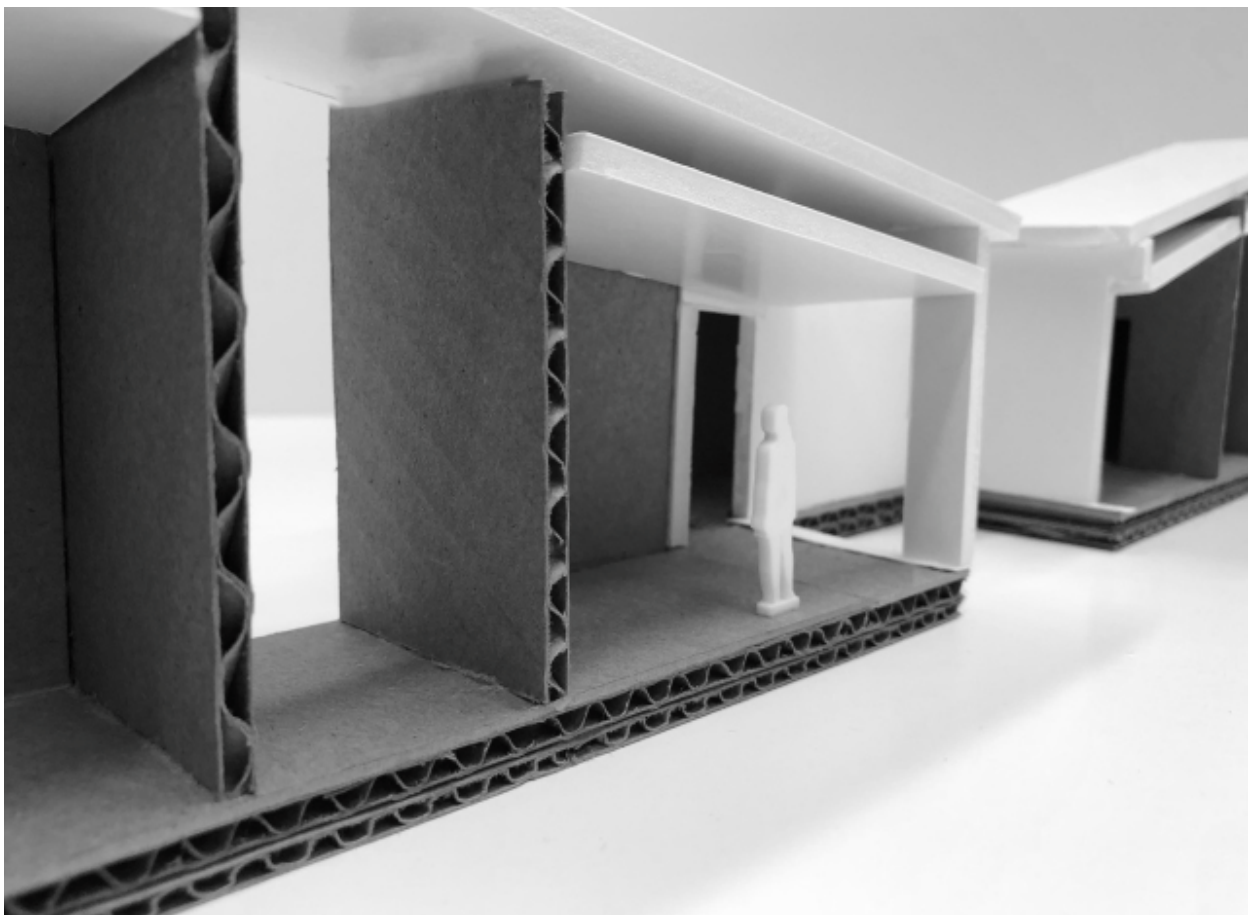
A floating roof that acts as a canopy for heavier buildings sitting underneath, supported with pinned connections

A reflection pool that captures the sky and building, and takes away access to the roof edge

Sliding doors to follow planar idea in floor plan and to open up academic side for gathering and teaching









Shadow Theater + Shadow Exercises

Timeline: 15 weeks

Year: Fourth Year

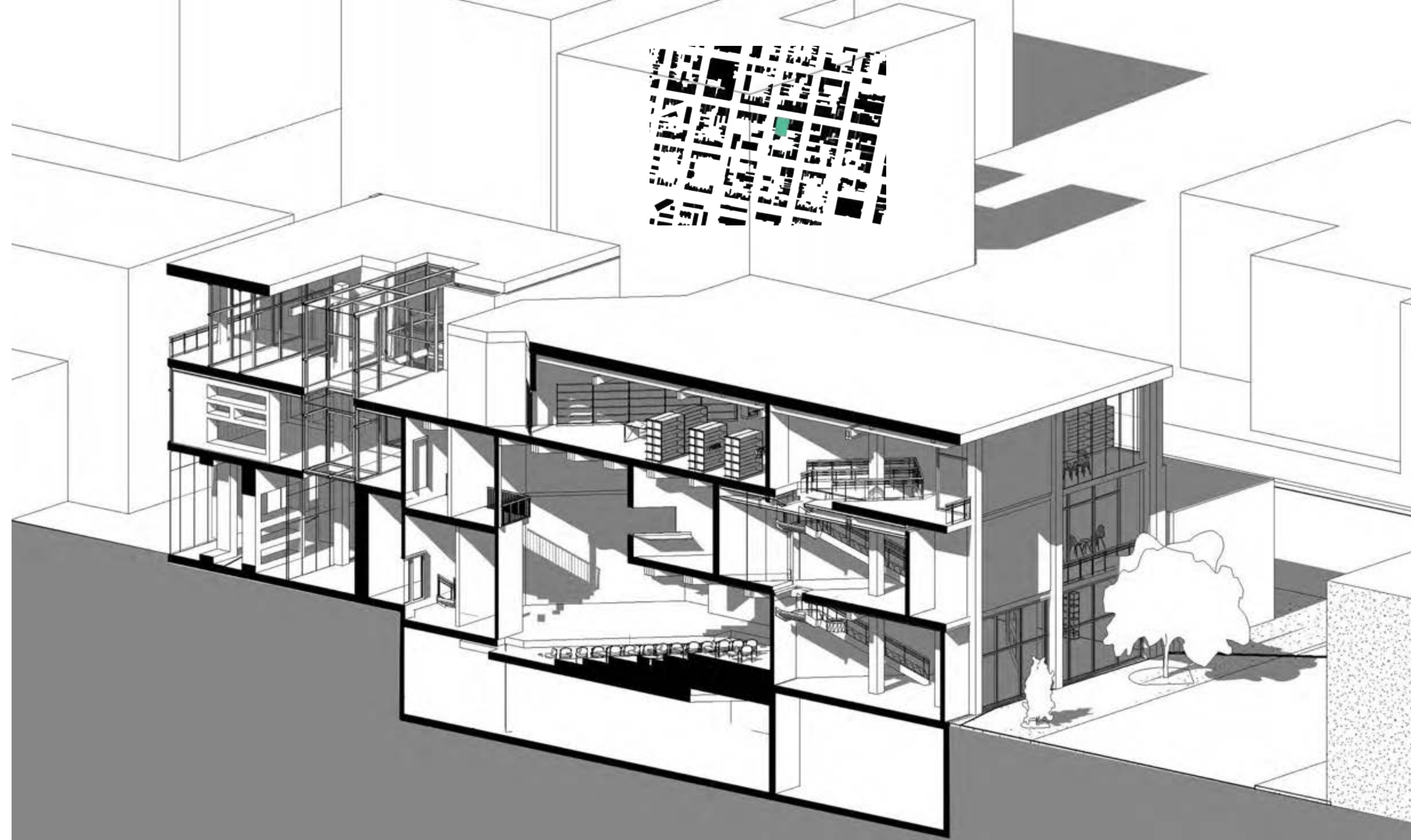
Overview: Study shadows through a series of exercises that influence the final proposal for a shadow theater in Old Town Alexandria near the corner of King Street and Patrick Henry Drive. The first exercise to the right was the construction of a shadow caster. I created a wooden box with materials of varying transparency, and studied how the layers of materials affected the shadows.

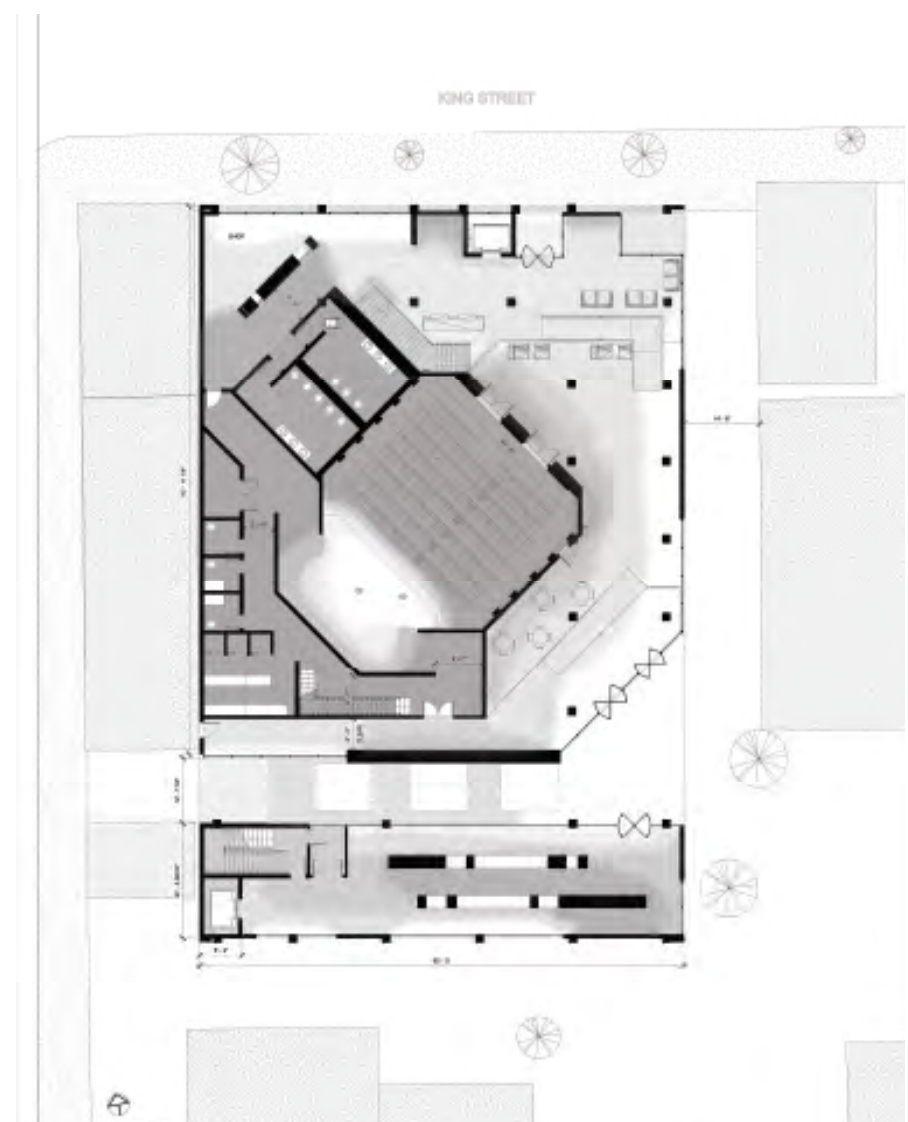




Exercises based on shadow caster shadow study. These drawings are an attempt to contain the shadow by preserving it, as if part of an archive. This acted as the example item that would then be displayed or stored away in the theater's archive. Questions emerged such as: How can people fully experience shadows? How can shadows be used in theater? How does one interact with and capture shadows?

The collages to the left are first ideas of making a building that contains and displays shadows, whether in a theatrical or museum setting.



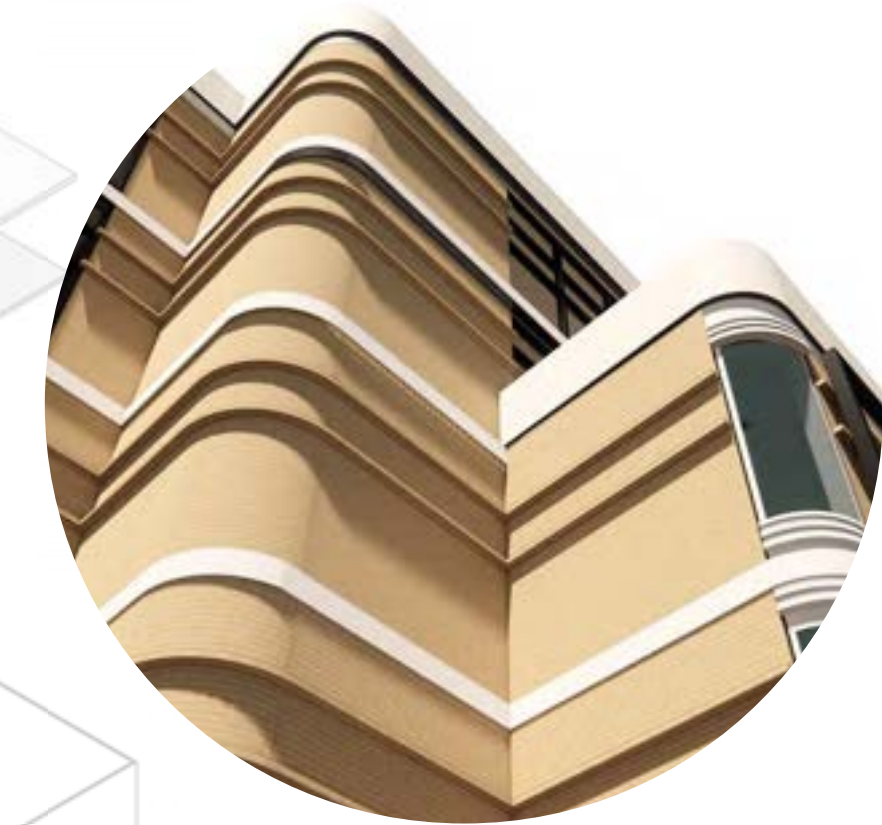
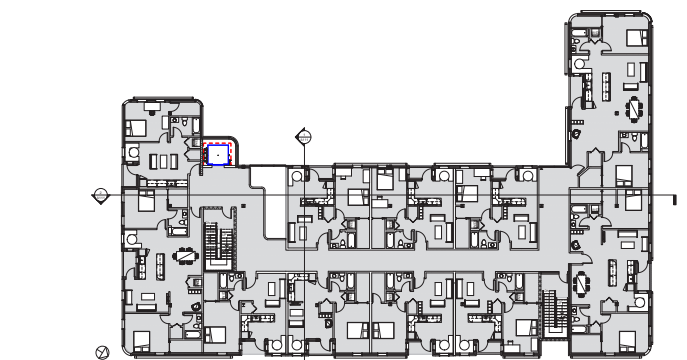
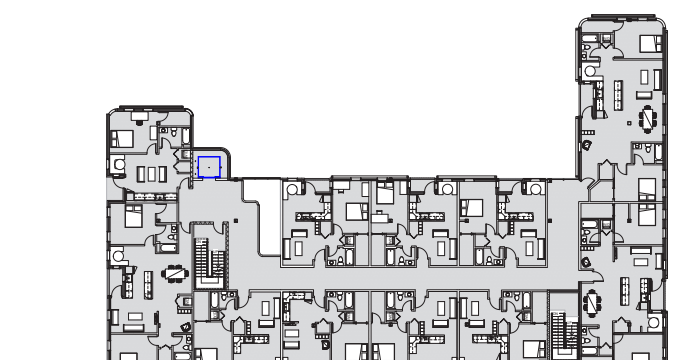
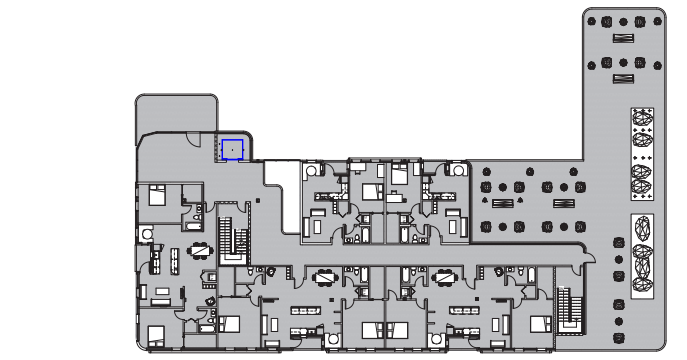
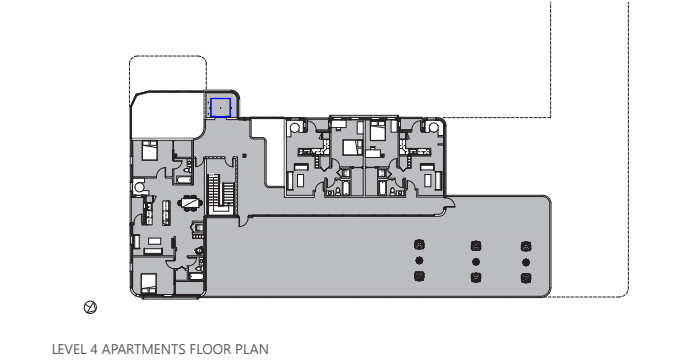
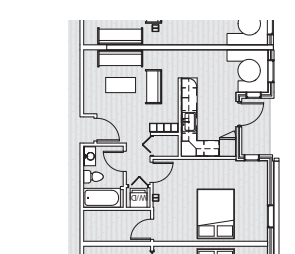
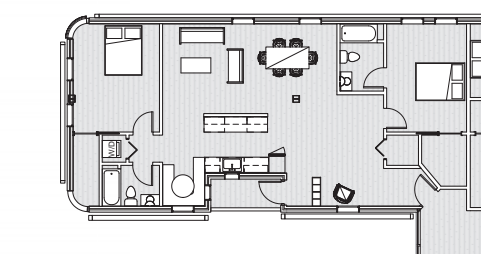
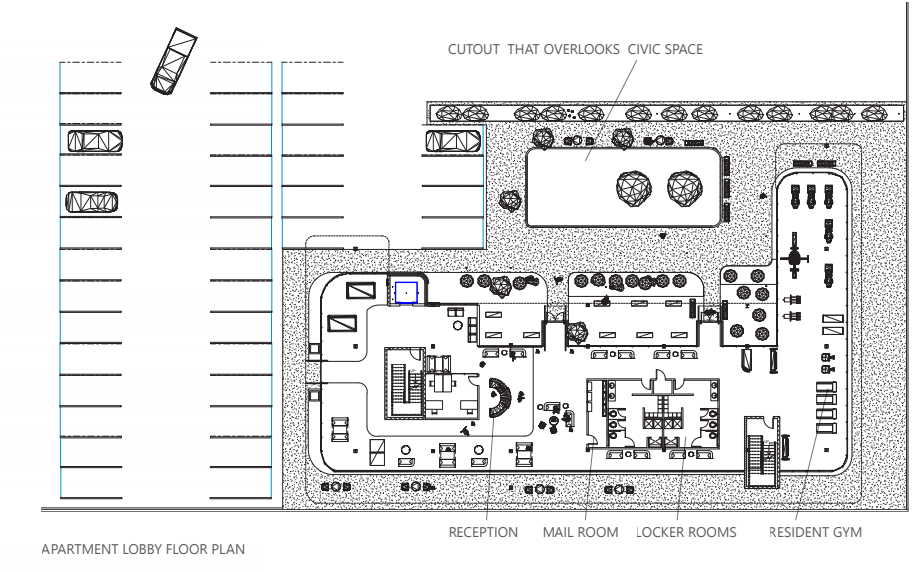
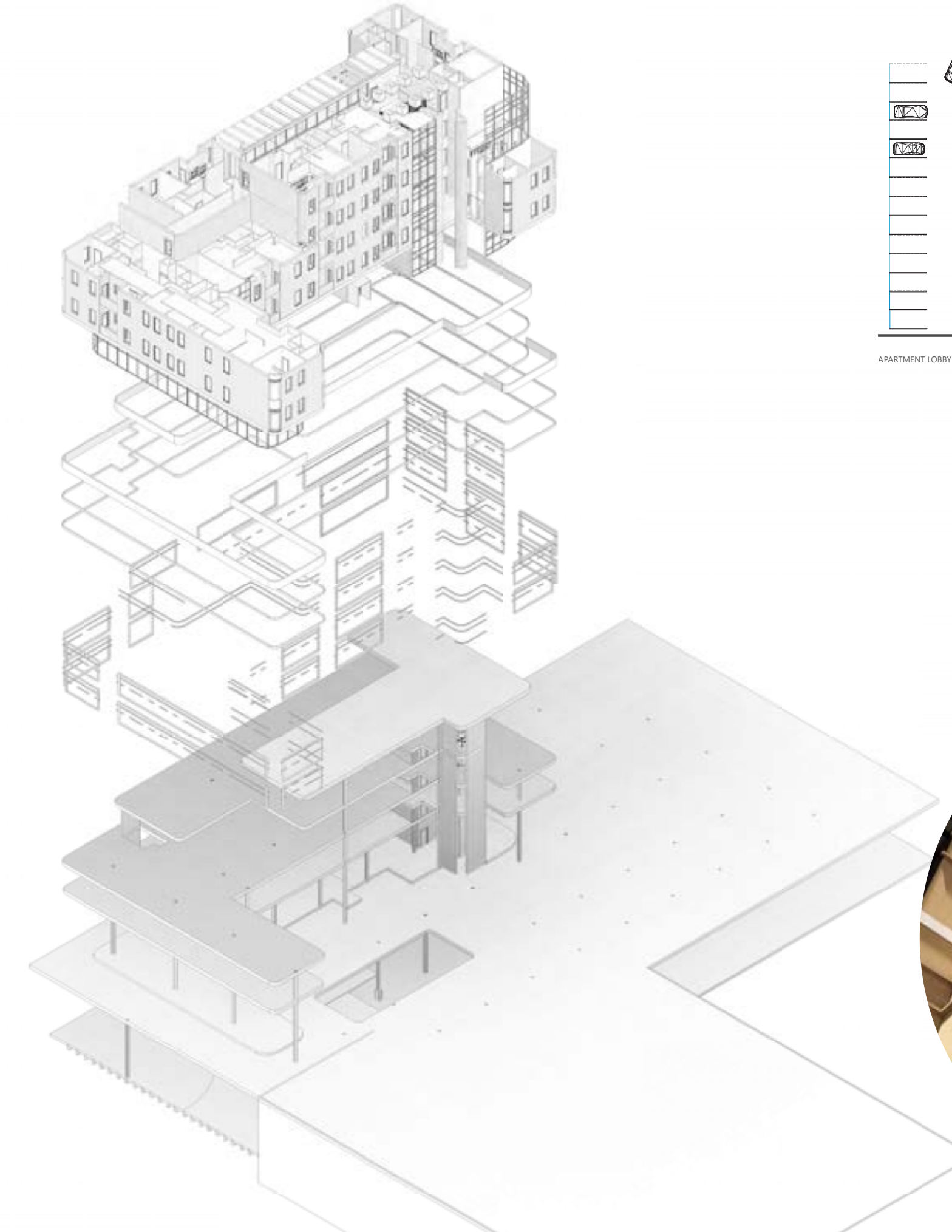
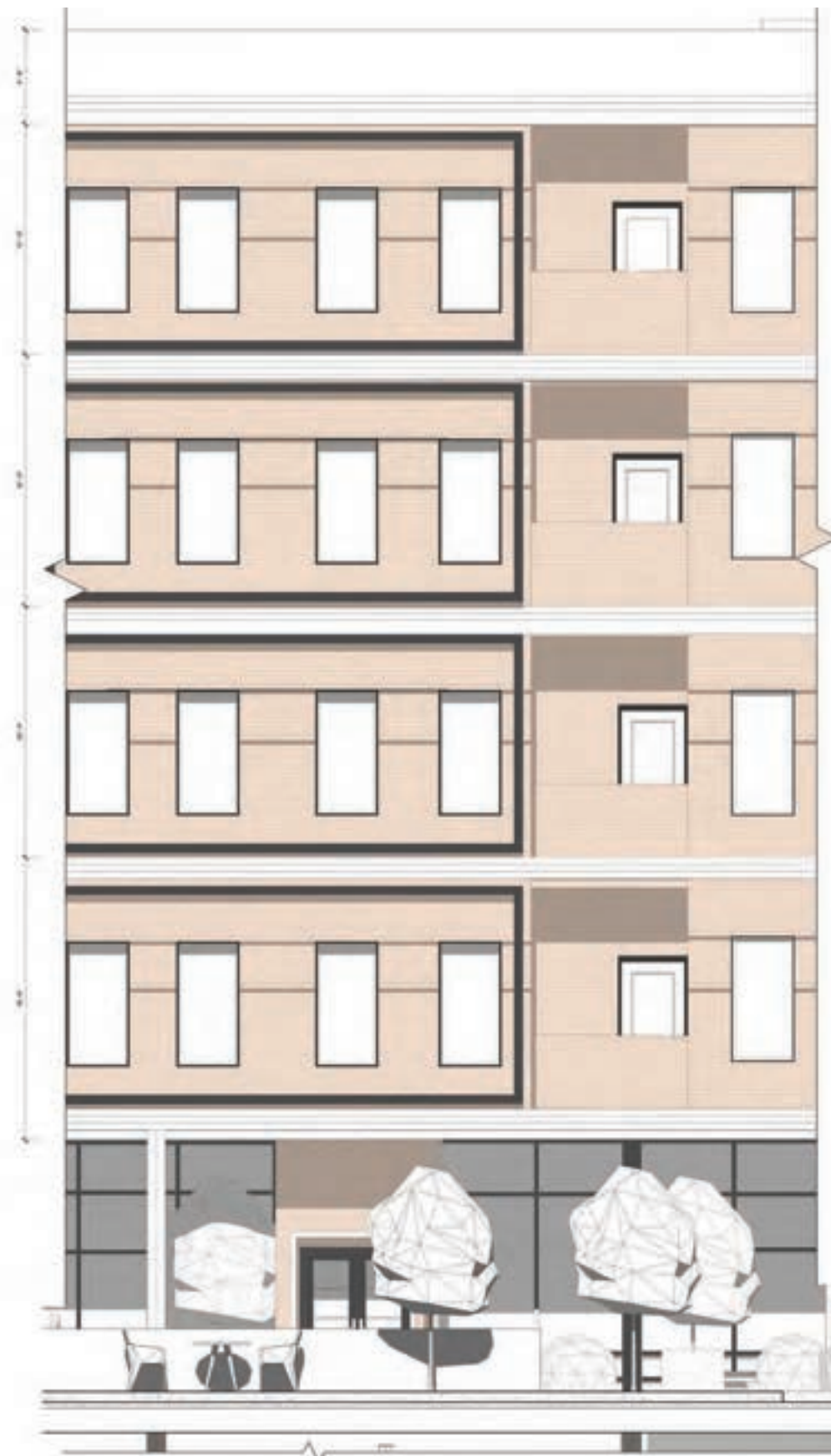




Downtown Community And Living Hub

Located in Downtown Lynchburg, this existing parking garage near Commerce St. and Main St. has been adapted to include 30 apartments on the upper level as well as a community space that takes advantage of the 22' ceilings on the second level. The apartments are perched on a curved glass lobby level to separate the two heavy volumes of apartments and parking garage. The corners curve and are hugged by a continuous fascia that frames each floor. The lobby greets residents and guests, as well as providing a space to retrieve mail and contact staff about maintenance requests. It also includes an amenity space consisting of a gym and changing room, as well as a smaller reception area for checking in. There are some areas focused on providing community with games like billiards.





PERSONAL WORK
AND PHOTOGRAPHY





Sydney Kiem
703.966.4926
sydmk1@vt.edu