

CASSANDRA HLINKA

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 614-973-9001

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2013

BACK BAY POOL



Semester: Fall 2013

Location:
BOSTON, MA
Program Type:
PUBLIC POOL
Instructor:
SAM CHOI

01

2013

PUBLIC LIBRARY

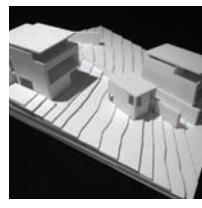


Semester: Fall 2013
Location:
BOSTON, MA
Program Type:
LIBRARY
Instructor:
SAM CHOI

07

2013

VACTION HOUSE



Semester: Spring 2013
Location:
N/A
Program Type:
HOUSE
Instructor:
MICHAEL BEAMAN

13

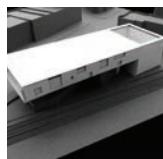
BACK BAY POOL 2013

Semester: Fall 2013

PROJECT DESCRIPTION:

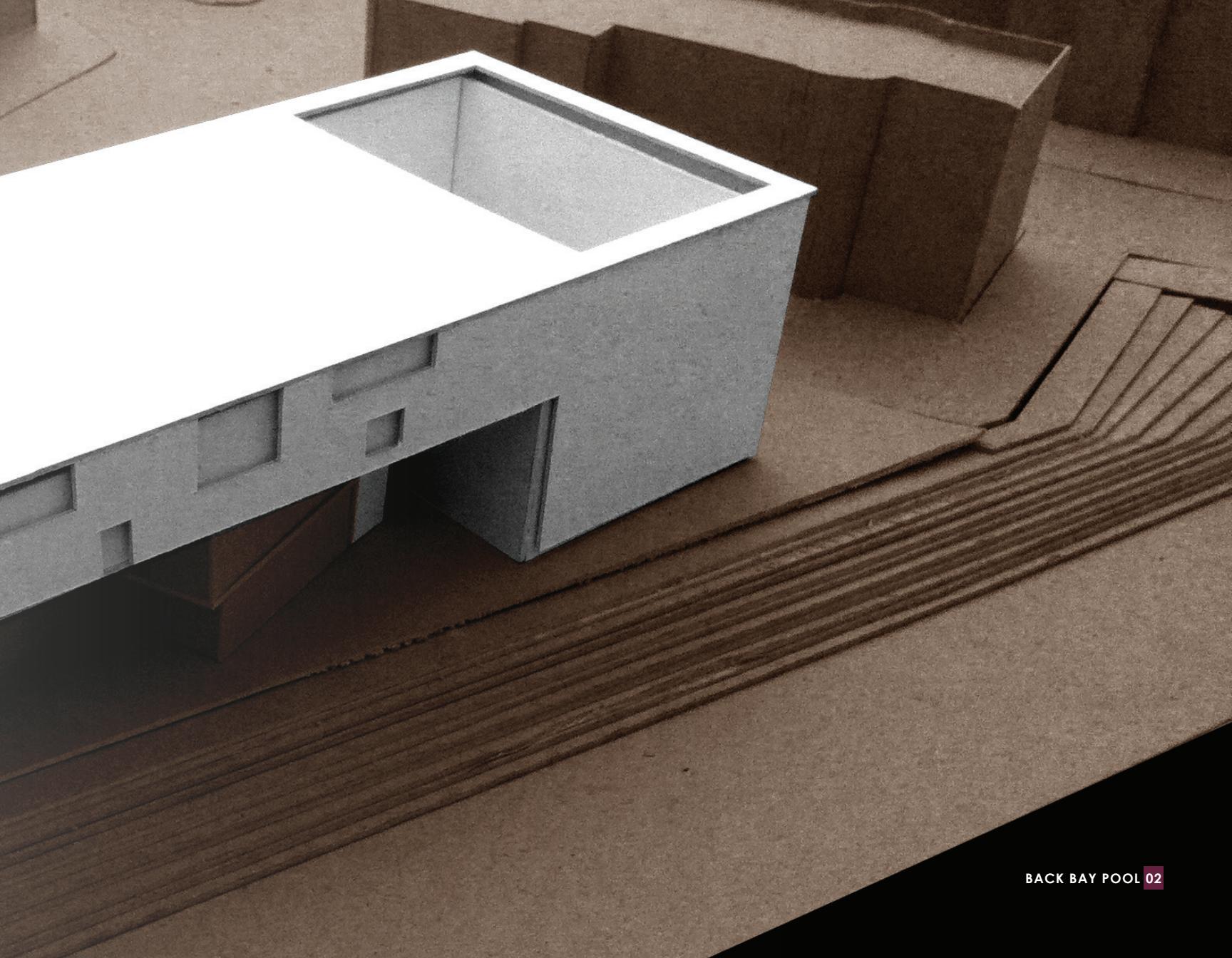
The design consists of two main parts; a large rectangular mass that cantilevers over the second mass, a collection of smaller programs. The large mass holds the large swimming pool and the diving well, while hidden below it below grade is the smaller swimming pool. The cantilevered pool is then rotated to face the intersection of Boylston Street and Massachusetts Avenue and the more commercial side of Boylston Street. The rest of the lower programs are parallel with Boylston Street to address the scale of the pedestrian. When entering the building, a core of service spaces and private spaces runs up the building and seems to hold up the massive cantilever. From the first floor, the viewer can look up past the second floor, which seems to hover underneath the large pool. Overall, the project is meant to address the complex geometries of the site, while not conforming to them.

PROJECT INFORMATION:



Location:
BOSTON, MA
Program Type:
PUBLIC POOL
Instructor:
SAM CHOI

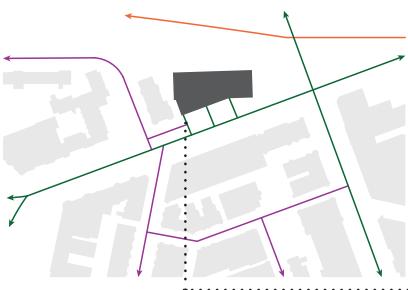
Software Used:
Rhino
AutoCAD
Adobe Illustrator
Adobe Photoshop



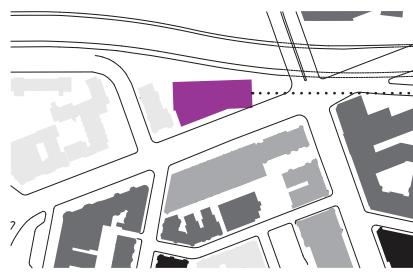
BACK BAY POOL 02

SITE ANALYSIS:

Traffic Flow:



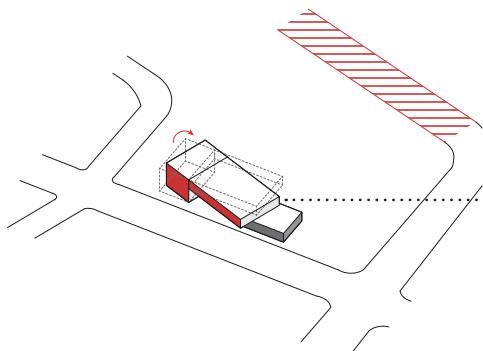
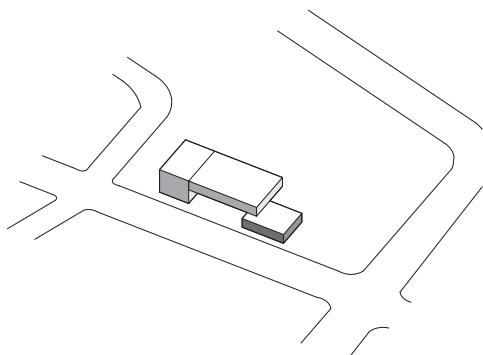
Neighborhood Context:



EVALUATION:

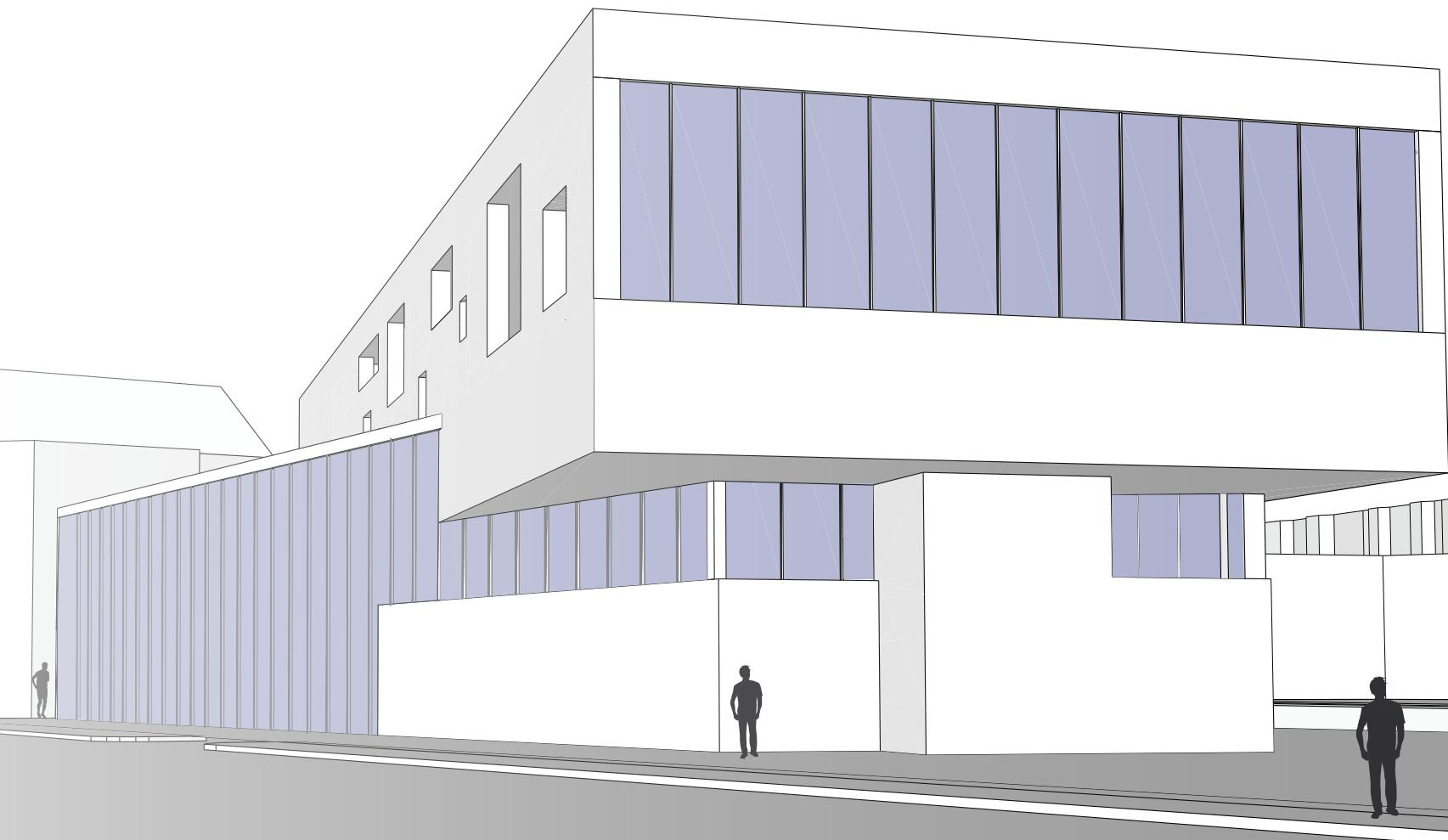
Looking at the traffic flow, I placed the **entryway closest to the residential area** of the site because the program would be used most by the residents nearby. I also found in the neighborhood context that the commercial and larger buildings were located on the north east side of Boylston Street. I knew I wanted to address this in my design by **creating a view looking down the street**.

SITE CONCEPT:



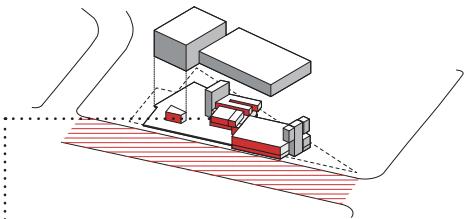
ROTATION:

In order to have a view looking down Boylston Street, I wanted to rotate the cantilevered pool to visually announce its purpose. I decided to **orient it parallel to Newbury Street**, which has a large amount of pedestrian traffic. This created a building that addressed all of the important streets around the site.



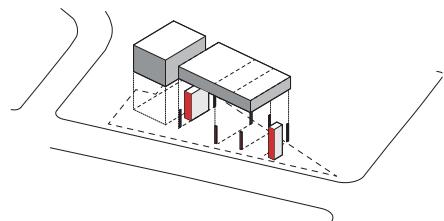
BACK BAY POOL 04

SPACIAL ORGANIZATION:



The solid spaces, including the locker rooms, offices, and restrooms, are grouped together to create one mass that seems to hold up the cantilever. All of the programs underneath the cantileaver are left to face Boylston Street to address the public.

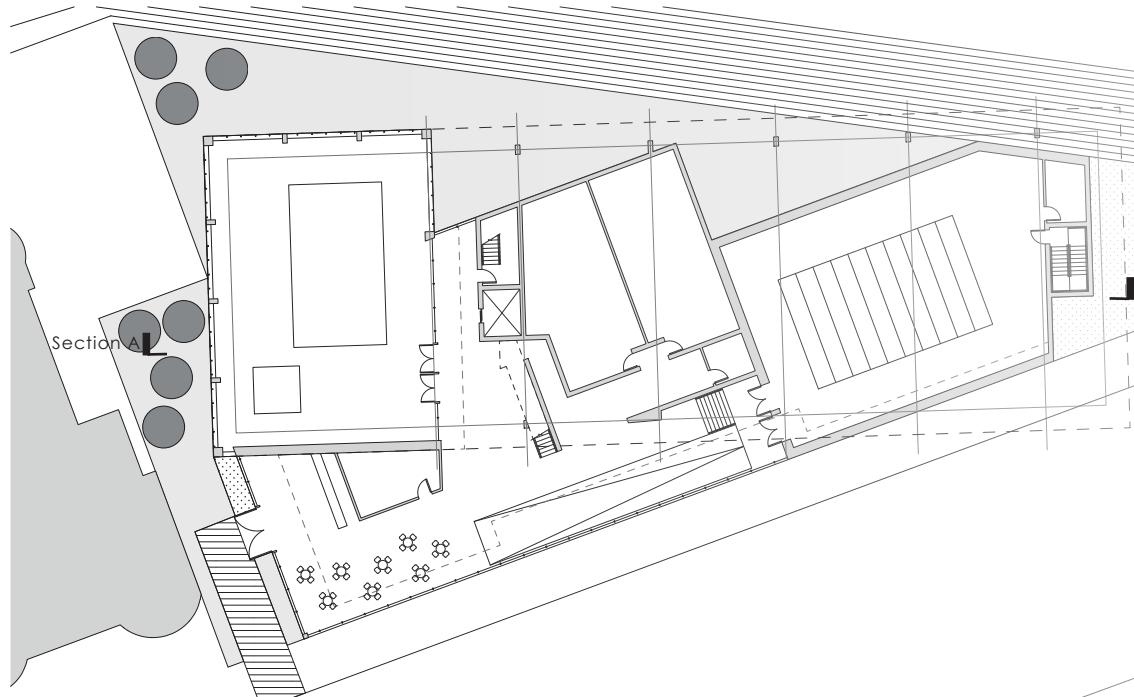
STRUCTURAL SUPPORTS:



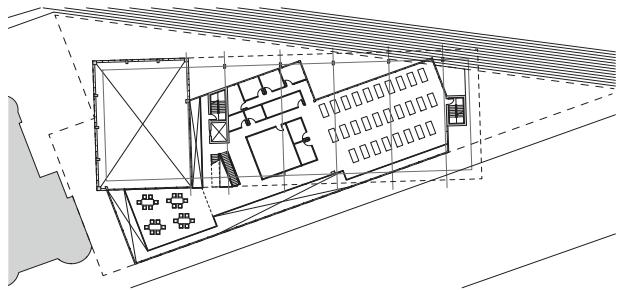
Using a column grid, supports for the large hovering pool were placed around the perimeter of the pool. The two elevators also act as supports as they connect to the top floor. The grouping of enclosed spaces underneath also acts as support by holding up the center of the pool.

FLOOR PLANS:

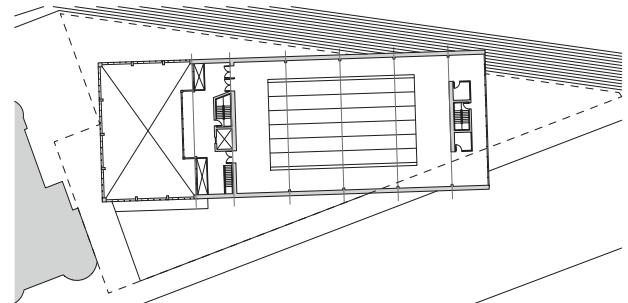
Floor 1:



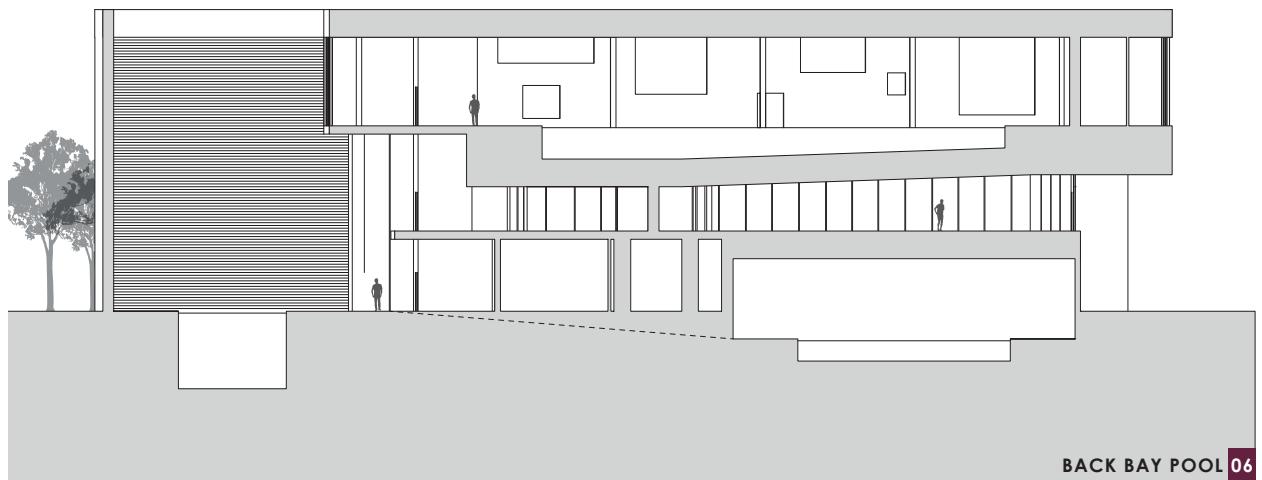
Floor 2:



Floor 3:



SECTION A:



PUBLIC LIBRARY 2013

Semester: Fall 2013

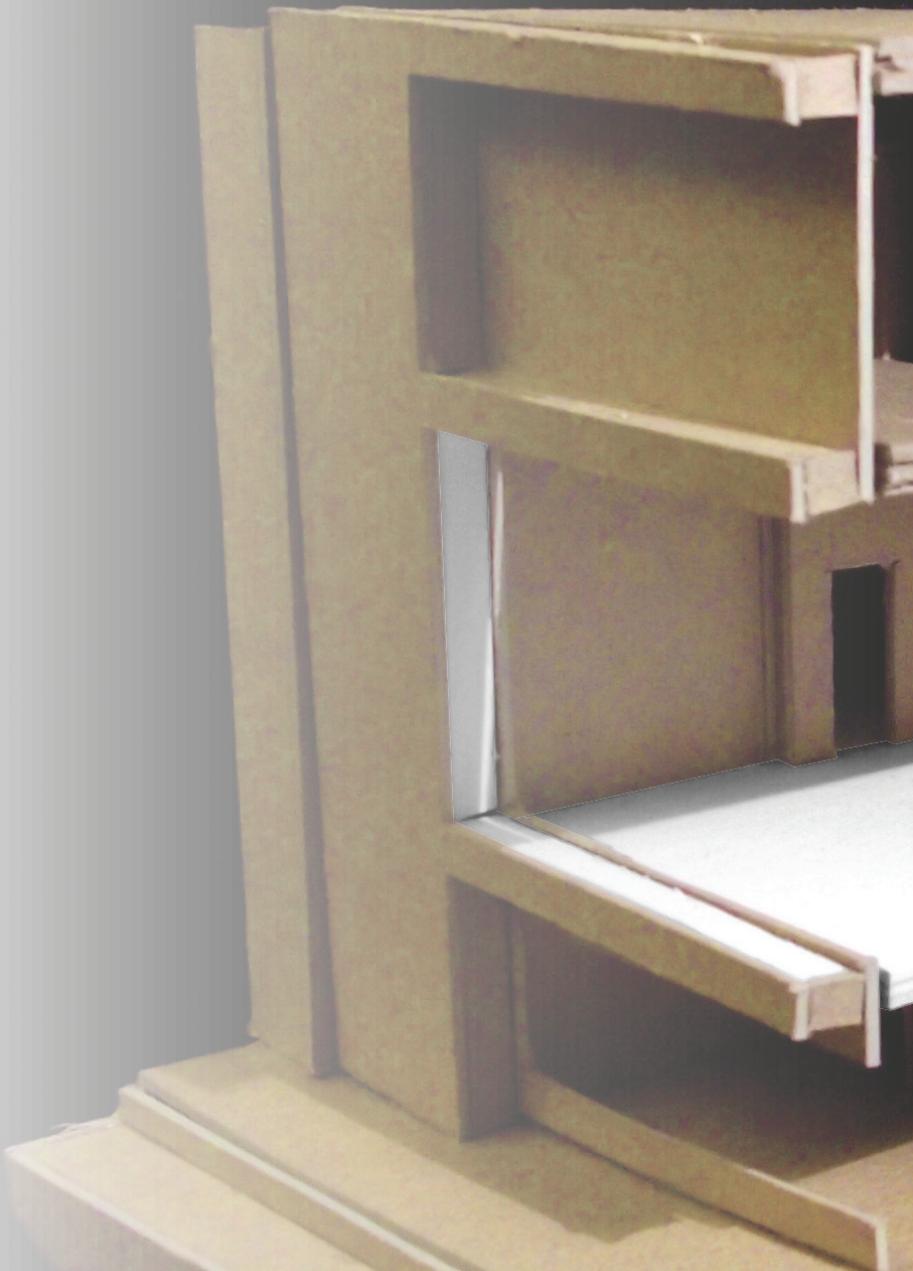
PROJECT DESCRIPTION:

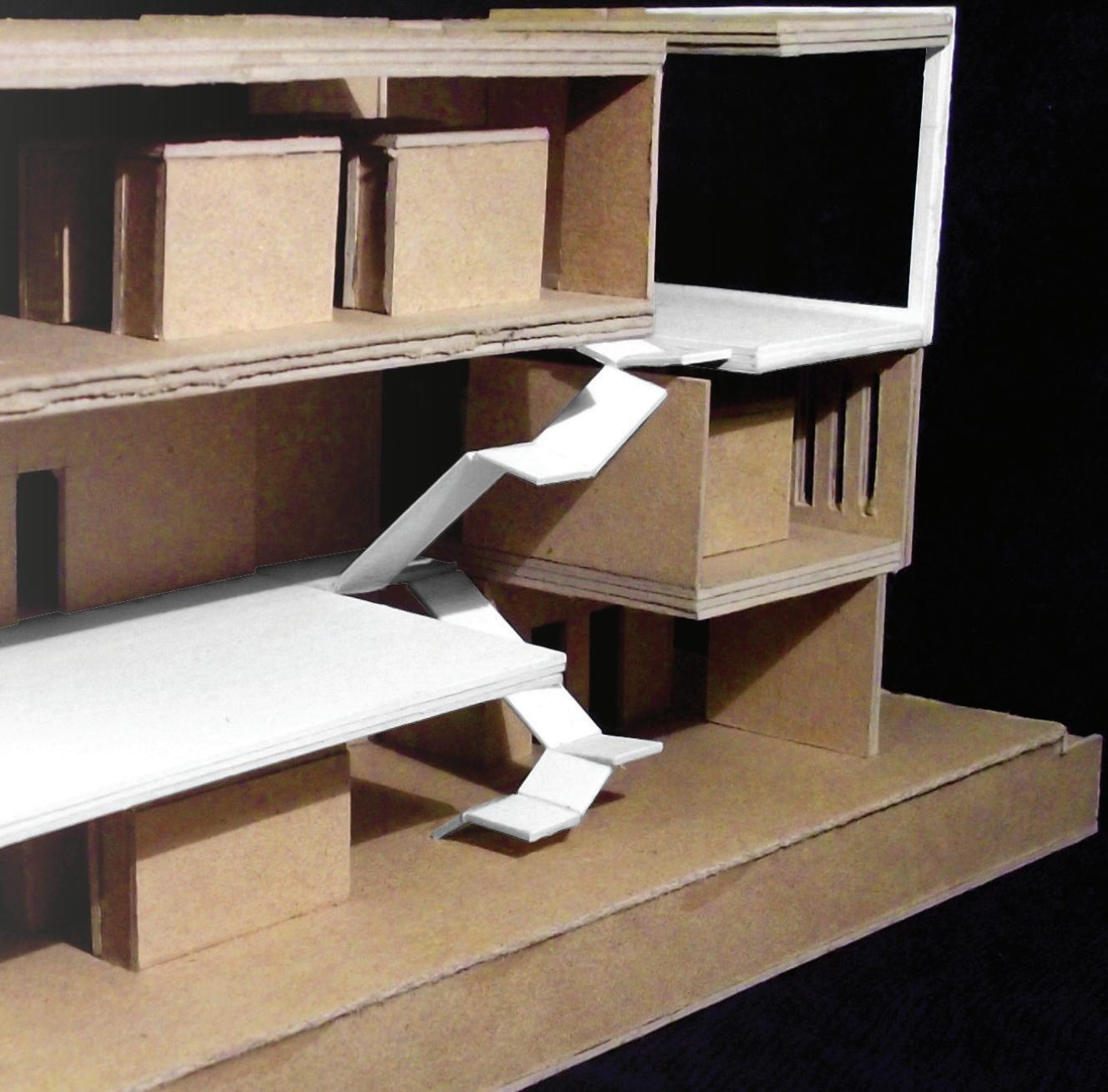
The main idea for this design is dividing the spaces into three vertical regions against one party wall and then offsetting the open and solid spaces to create a "zigzag" pattern of open and closed spaces. The two main open spaces, the main reading area and the multi-purpose room are a floor apart and on complete opposite sides of the library, which makes the viewer progress from open to closed to open space and so on. The center of the design is the public circulation against the elevator, which connects the open and solid spaces to one another. The open spaces are emphasized by windows on the facade and an extension of the exterior wall. All of the solid spaces are organized against against one of the party walls and this creates a service bar along one side of the library, which includes the circulation, restrooms, offices, and storage.

PROJECT INFORMATION:



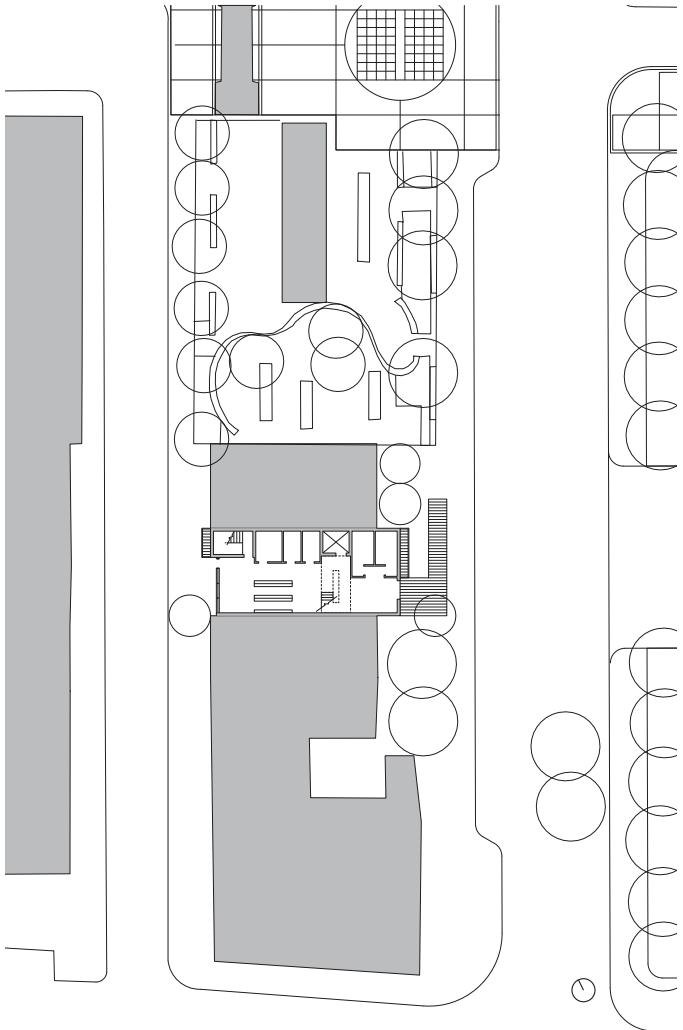
Location:
BOSTON, MA
Program Type:
LIBRARY
Instructor:
SAM CHOI
Software Used:
Rhino
AutoCAD
Adobe Illustrator
Adobe Photoshop





PUBLIC LIBRARY 08

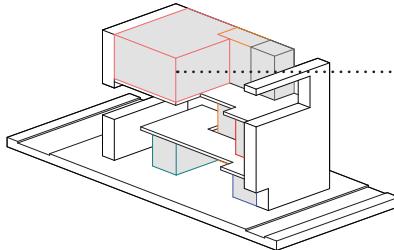
SITE PLAN:



INITIAL PROGRAM DIAGRAMS:

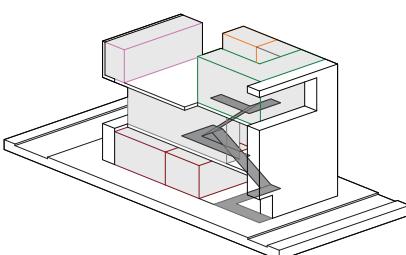
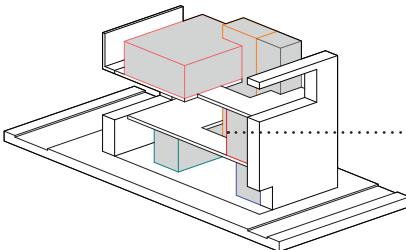
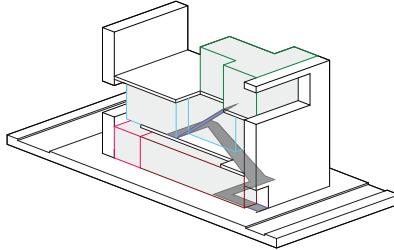
Key:

- Entry
- Solid Space B
- Solid Space C
- Solid Space D
- Egress Stair
- Elevator



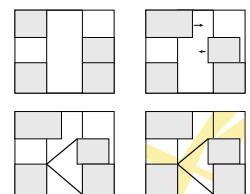
Key:

- Entry Open Space
- Open Space A
- Open Space B
- Open Space C
- Public Circulation

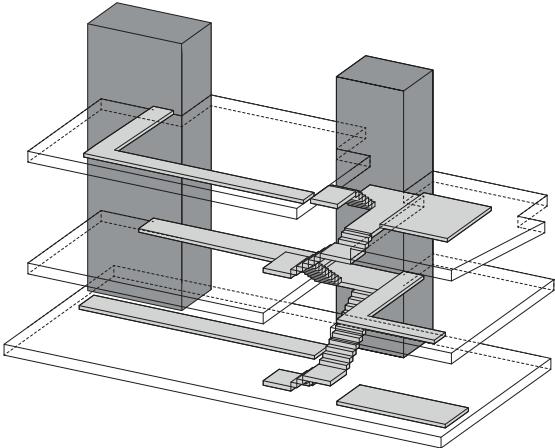


DESIGN PROCESS:

The idea for this design began as dividing the spaces into three vertical regions against one party wall and then sliding the spaces so as to blur the lines of the two datum lines. When adding in the programs, the floors were pushed forward or to the side in accordance with **only the solid spaces**, and the open spaces could act as a datum. The center solid space which organized the three different regions was a focus in the design after the shifting of spaces against it. I placed the main circulation in front of this space to emphasize its importance and to emphasize that it is the space that connects the two opposing sides. The circulation moved from dark to light when moving from the first floor to the third floor because of the increase in natural light from windows and the increase in spaces opening up to the roof.



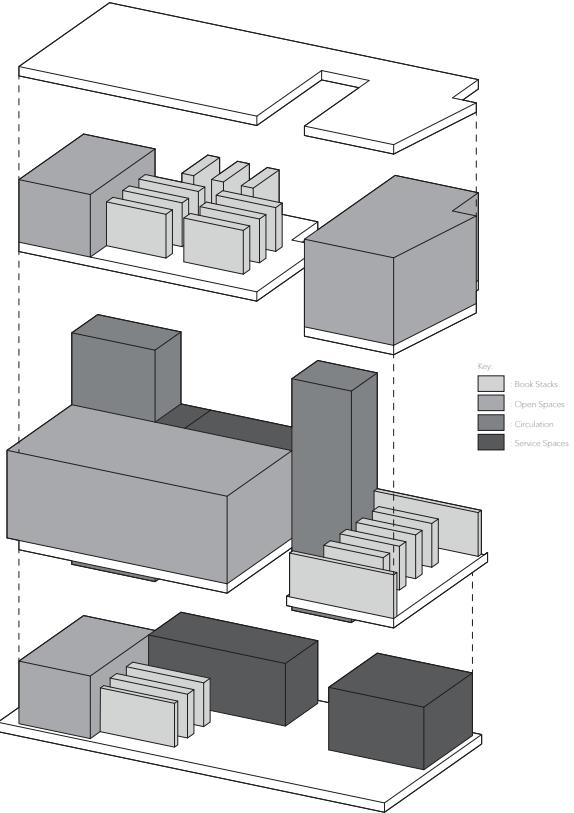
CIRCULATION DIAGRAM:



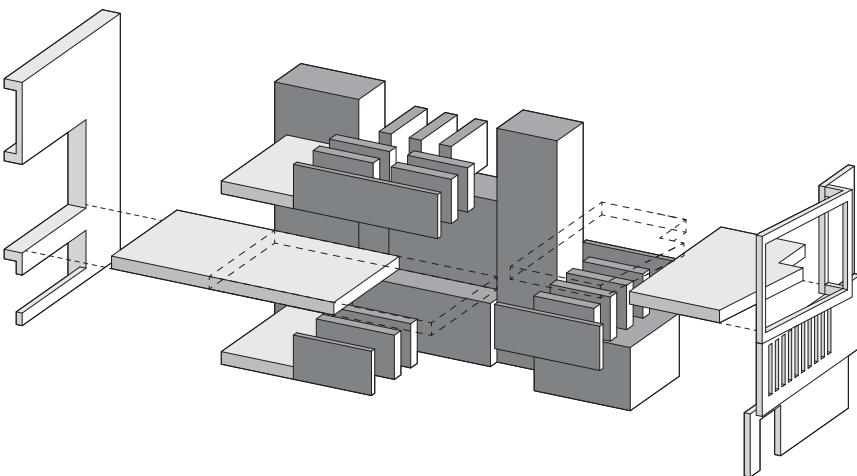
CIRCULATION DIALOGUE:

When entering the structure, there is a short dark corridor which transitions into an open circulation area with light coming from windows from above and a view to the roof of the building with a skylight, which showcases the projecting solid spaces of the upper floors. The circulation begins in the center of the building where all of the spaces are arranged off of and winds up against the sides of the spaces. When reaching the second floor, the first view is that of the book stacks with diffused light coming through louvered windows. After crossing the platform, the space opens up into a reading space with a wall of windows. The circulation moves up again to the third floor into an even lighter space with a wall of windows on the facade that protrudes out into the street area and gives the viewer a look at the more contemporary side of Boston. Next, there is another progression to the fourth floor which only gets natural light from the skylight, creating a darker, secluded space.

PROGRAM ORGANIZATION:

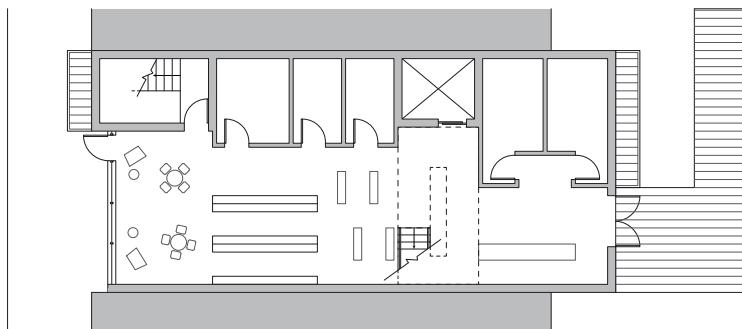


PARTI DIAGRAM:

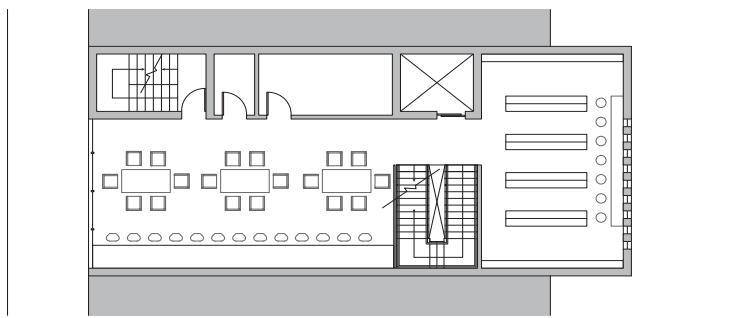


PLANS:

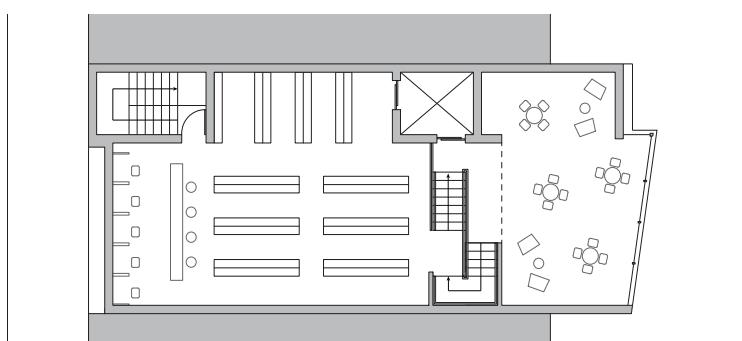
Floor 1:



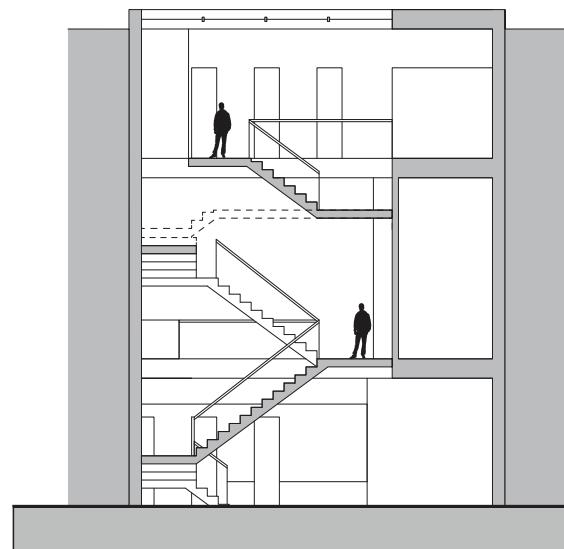
Floor 1:



Floor 1:

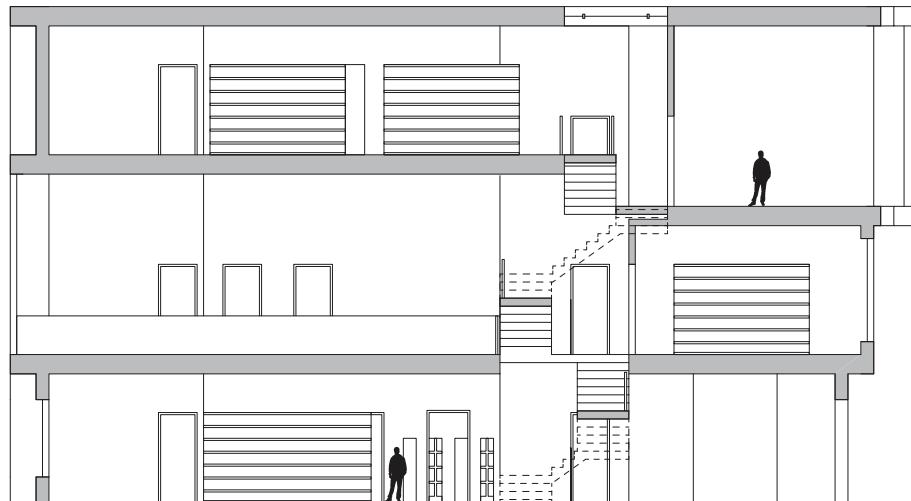


SECTION A:

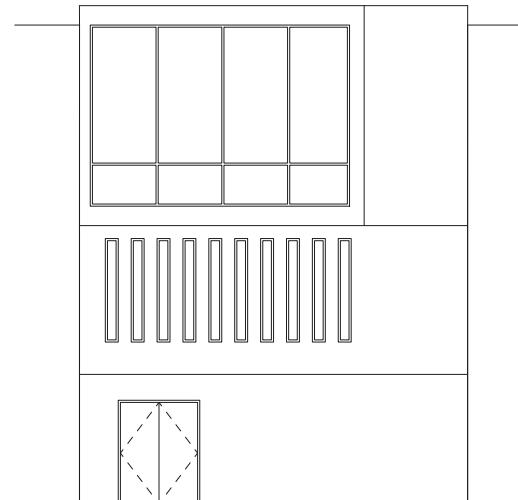




SECTION B:



ELEVATION:



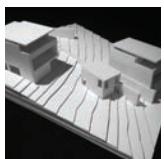
VACTION HOUSE 2013

Semester: Spring 2013

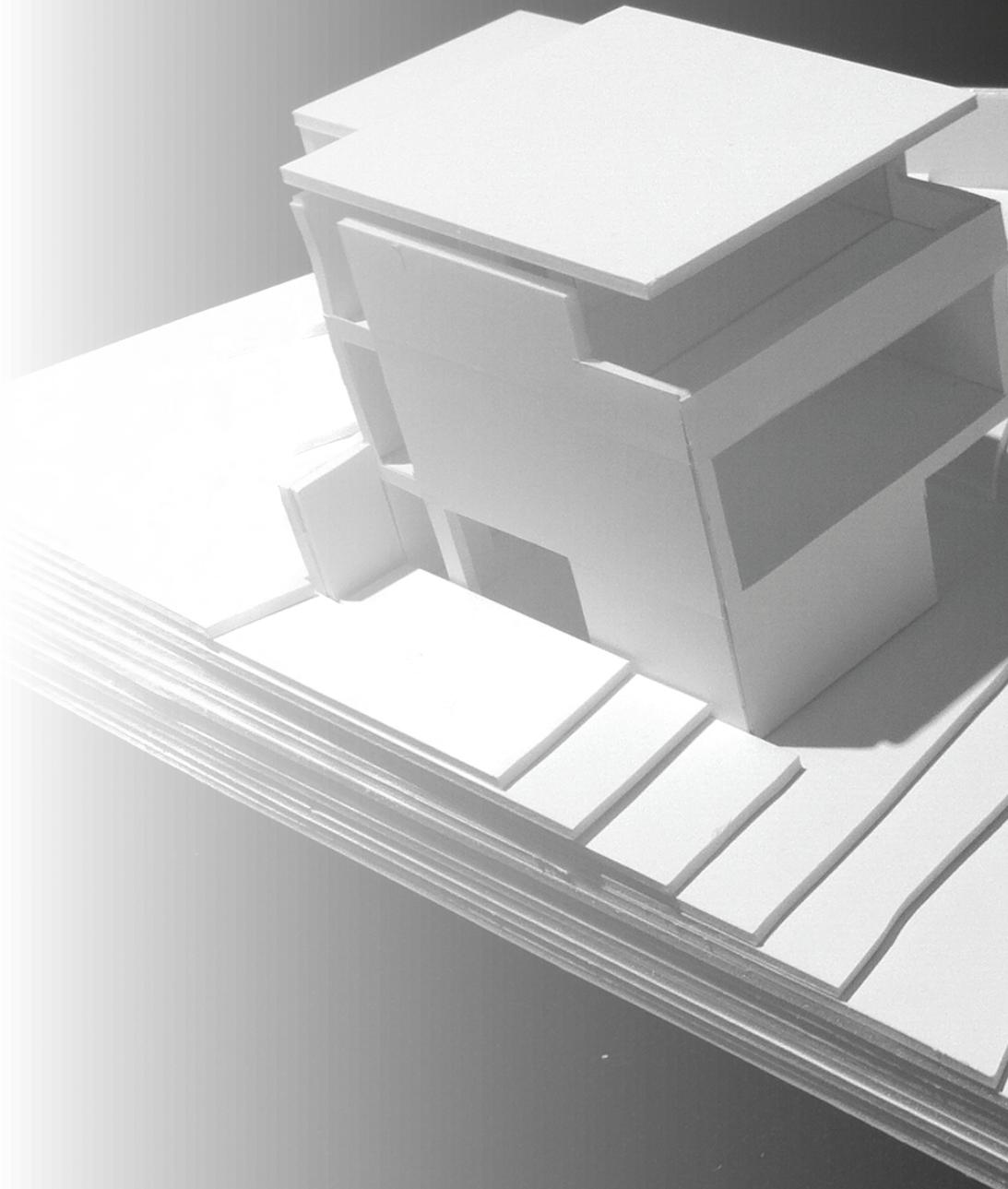
PROJECT DESCRIPTION:

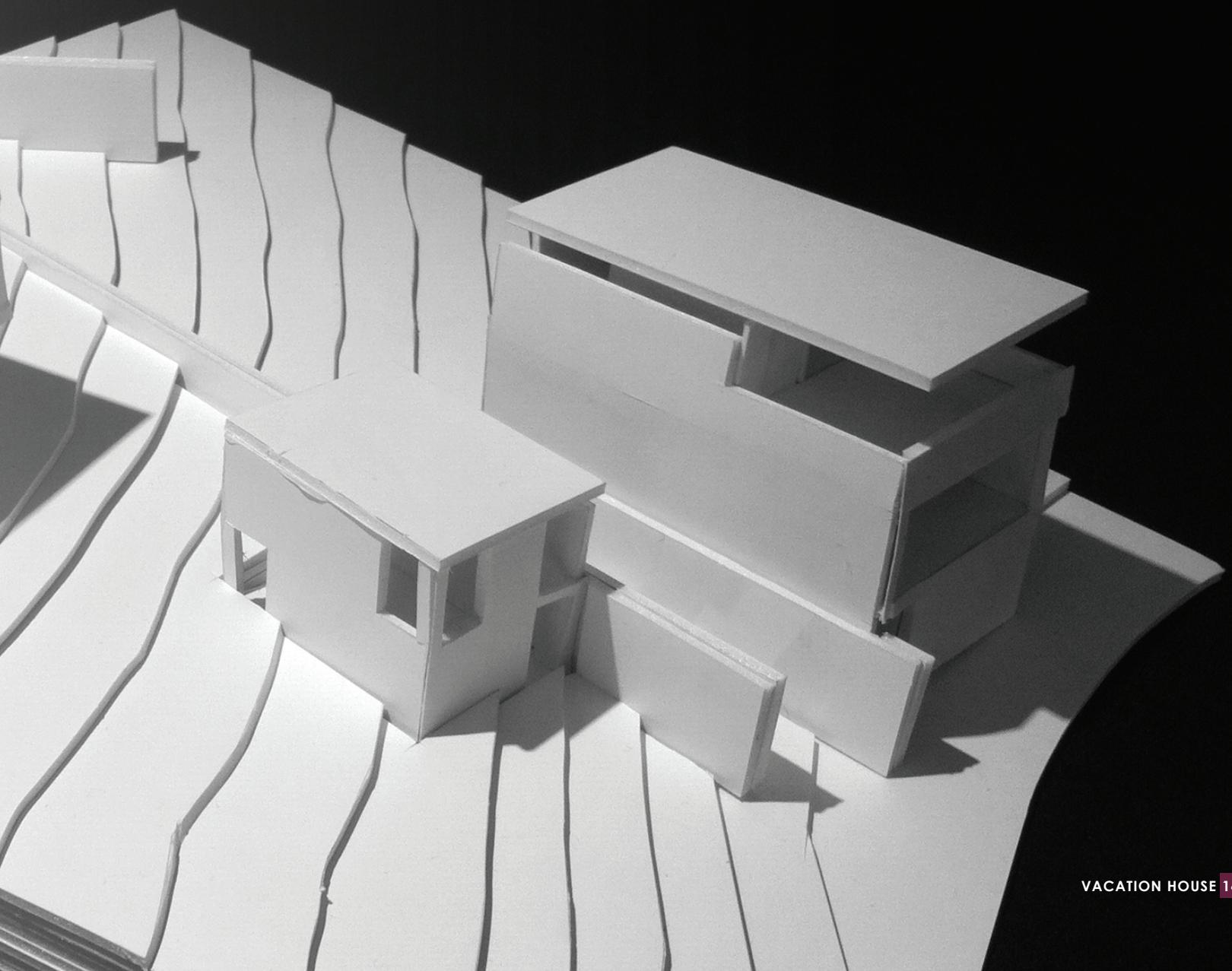
When given the assignment to design a vacation house, I decided to center my programs around a wall. My design began by separating the public and private spaces using the wall, however as I progressed, I pushed my idea further by transforming the wall into a space. I arranged all of the service programs, such as bathrooms and stairs, against the wall to enforce the idea that the wall was the area in my design where the visitor must go to circulate through the house. I was then asked to double my house size to create two vacation homes on the same lot. I doubled the wall and shifted it to follow the lines of the lot and emphasize the shape of the topography. I moved the public and private spaces to one side of each wall and left the studio space on the opposite side as it's own space. This lead to my final design, two three-story homes against one wall that unifies the seemingly separate structures.

PROJECT INFORMATION:



Location:
N/A
Program Type:
HOUSE
Instructor:
MICHAEL BEAMAN
Software Used:
Rhino
AutoCAD
Adobe Illustrator
Adobe Photoshop

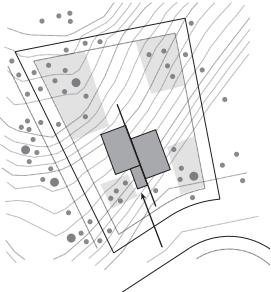




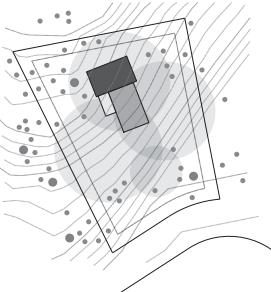
VACATION HOUSE 14

SITE ANALYSIS:

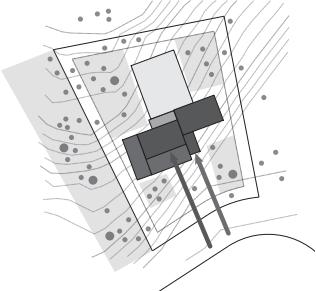
Possible Entryways 1:



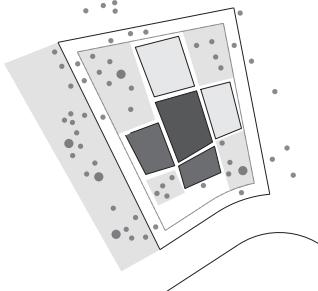
Different Views:



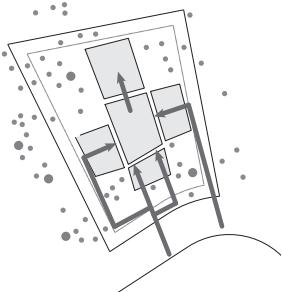
Massing Strategy 1:



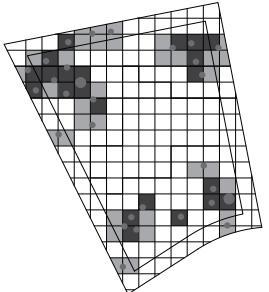
Massing Strategy 2:



Possible Entryways 2:



Finalized Massing and Views:



SITE PLAN:



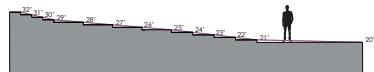
SITE ANALYSIS PROCESS:

When analysing the site, I looked at the sectional qualities, which changed dramatically in height over the course of my site, and the geometry and layout of natural elements, including plant life. Starting with the basic principle of separating public and private spaces and having a mediator space, I played with arranging the masses in different locations and orientations based on views and accessibility. I produced several different possibilities and with these, developed a sense of all of the possible entryways and the available area of the site I could build on considering views and massing. This left me with an area centered on the site that spread generally in the west and east directions.

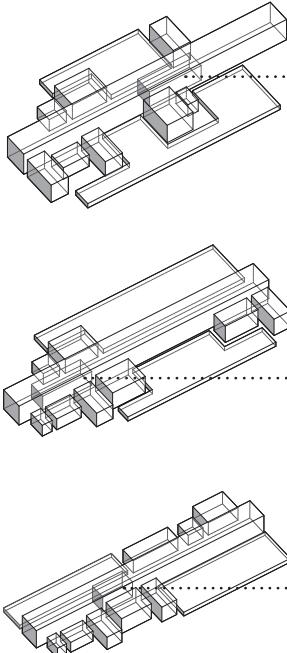
SECTION 1:



SECTION 2:



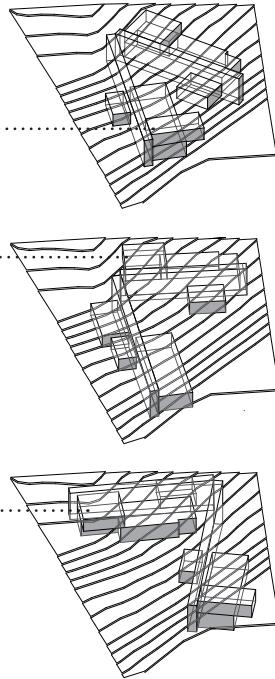
PROGRAM ORGAIZATION:



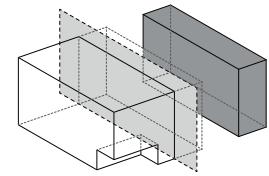
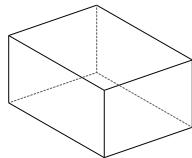
DESIGN PROGRESSION:

With a set of programs, I began to organize the spaces against a wall. With the private spaces, such as the bedroom and studio, behind the wall and the public spaces, including the garage and living room, in front of it, I places the **greenhouse** inside the wall because of the unique qualities of being both a private and public space. It became a transitional space, and with this I tested different layouts of the greenhouse in reference to the public and private spaces. In some cases the private spaces were completely separate from the public spaces, while in others, they had a connection with the public spaces. I decided to further develop this second proposal.

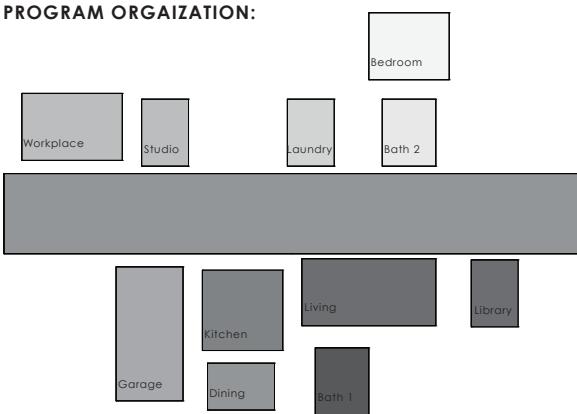
DOUBLE HOUSE MASSING:



FINAL PARTI DIAGRAM:



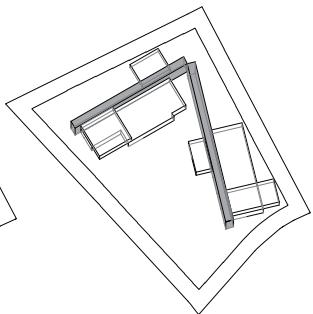
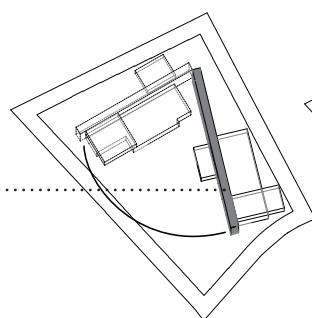
PROGRAM ORGAIZATION:



DOUBLE HOUSE MASSING:

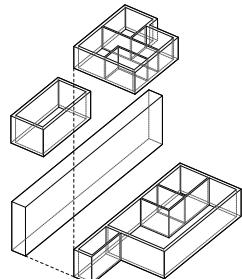
With the addition of a second vacation home on the lot, the available space lessened. This forced **some of the programs to move on top of some other programs** and pushed the private and public spaces together. There was also a question of how to lay out the two houses. I decided to create two walls that connect at one point, each having a house attached to the end. The **walls would then swing** away from each other, creating a common space in between them.

SECOND HOUSE ROTATION:

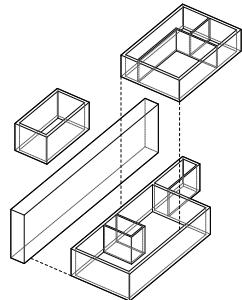


AXONOMETRIC DIAGRAMS:

House 1:



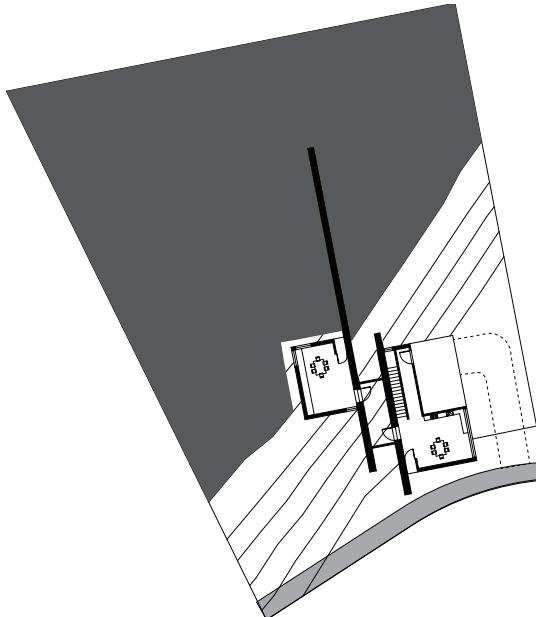
House 1:

**FINAL DESIGN:**

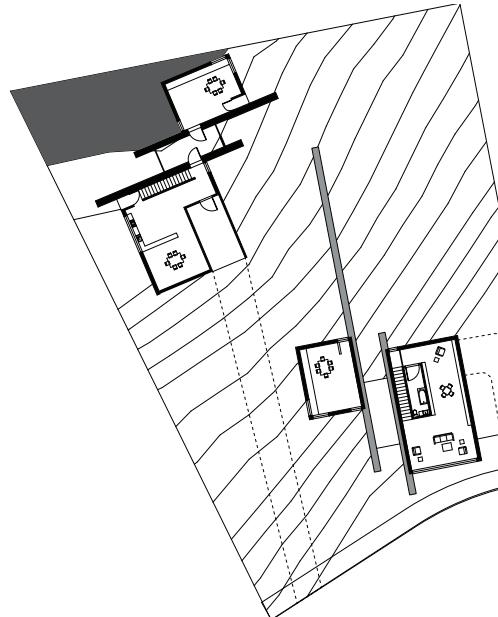
The final design consists of two major walls that cut through the land of the site with two houses seat against them. Each house is then split by the wall into public and private, both including a transitional greenhouse in between them. When progressing from one house to another, the walls act as a guide and at the corner break and create a barrier from the outside world while still allowing access from off of the site.

PLANS:

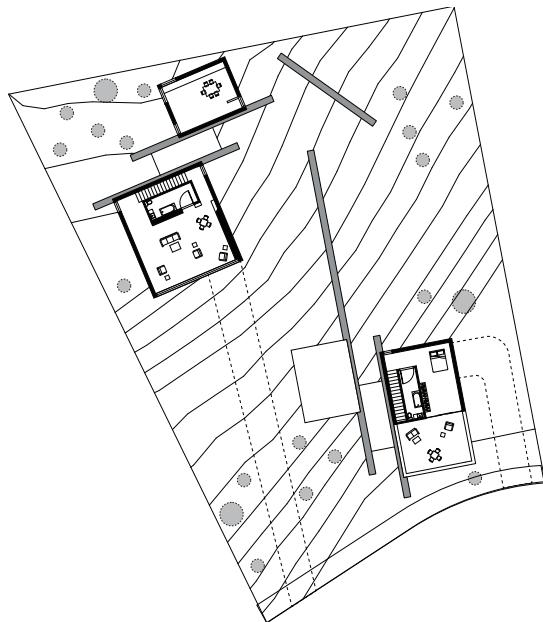
Floor 1:



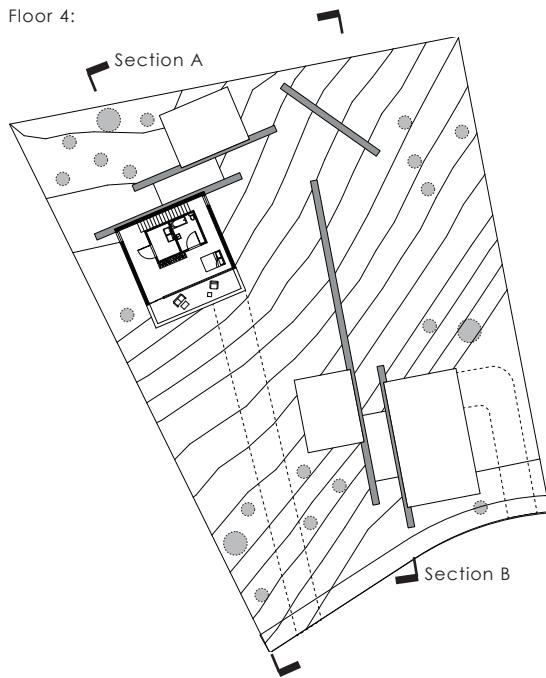
Floor 2:

**SECTION A:**

Floor 3:



Floor 4:



SECTION B:

