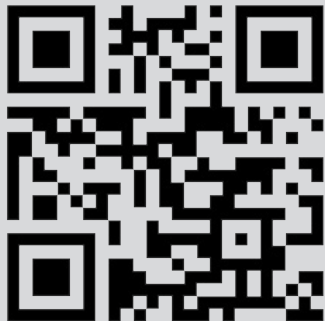


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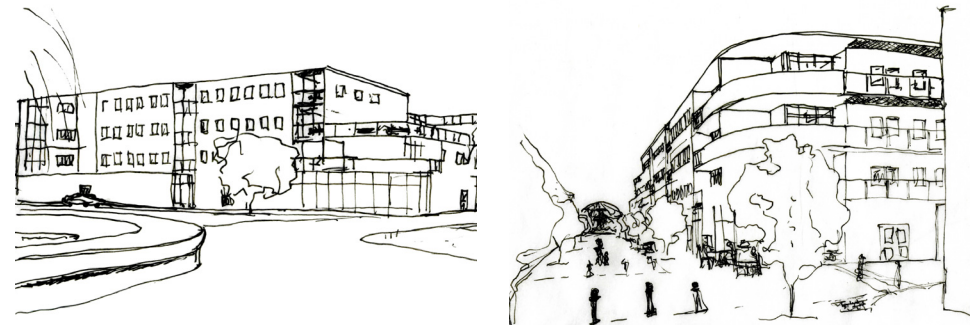


Portfolio



PROJECT DESCRIPTION

The goal of the project is to create a community that appeals to the younger generation and a new lifestyle by making a community of the future. The master plan focuses on achieving this by creating a dense urban fabric that utilizes the existing city grid. The main pedestrian promenade that leads to the fulcrum of the master plan starts at the north of the site and leads on past modern day town-homes and mixed use spaces that have a wide variety of commercial spaces on the first floor. This provides a wide easily accessible path to shopping and recreation. The pedestrian path is distinguished from the roads by the use of permeable brick as the paving surface.

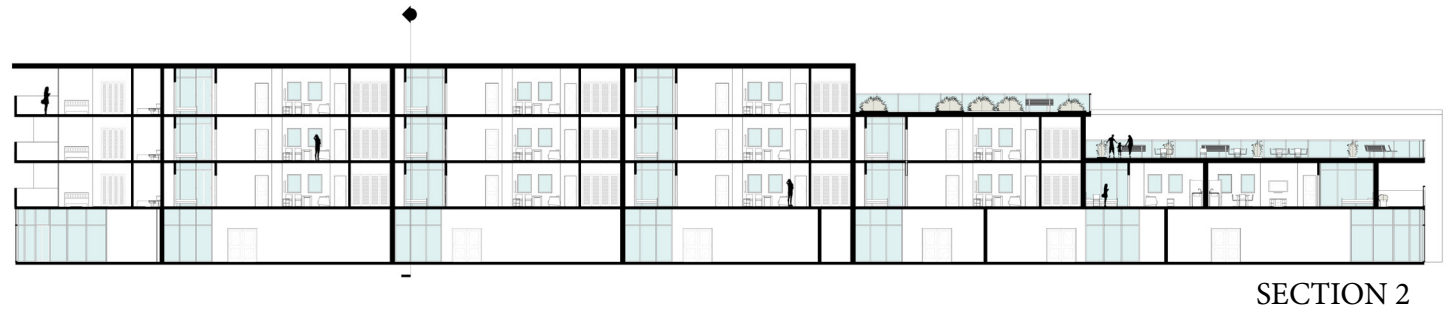
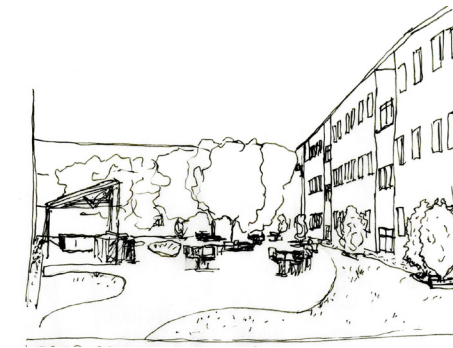
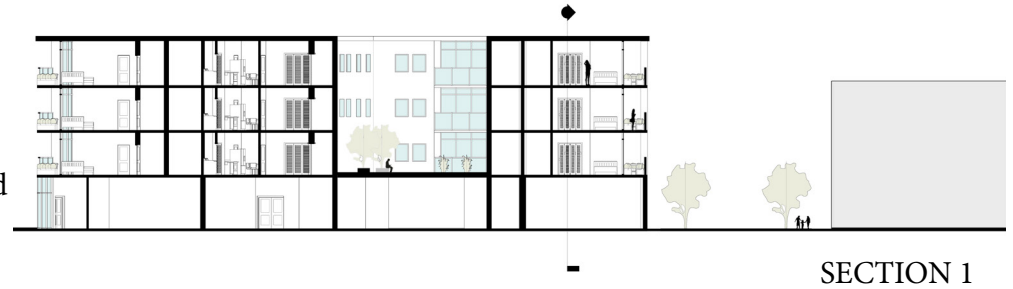


BUILDING SECTION 1

Section one is cut perpendicular to the central promenade and shows the interior open air courtyard that has a grass and paved accessible green roof that serves the entire building. The courtyard allows for daylight to reach the interior apartments while also being an amenity.

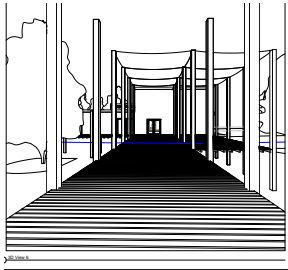
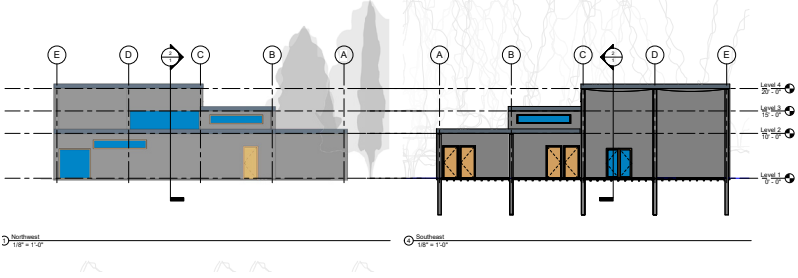
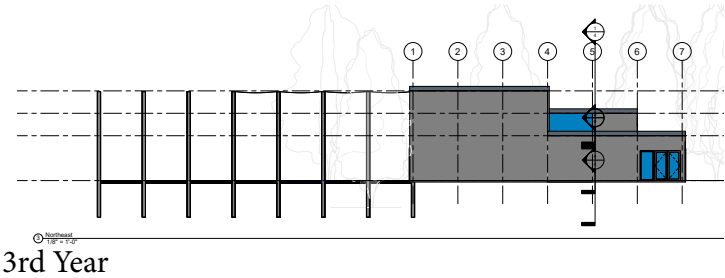
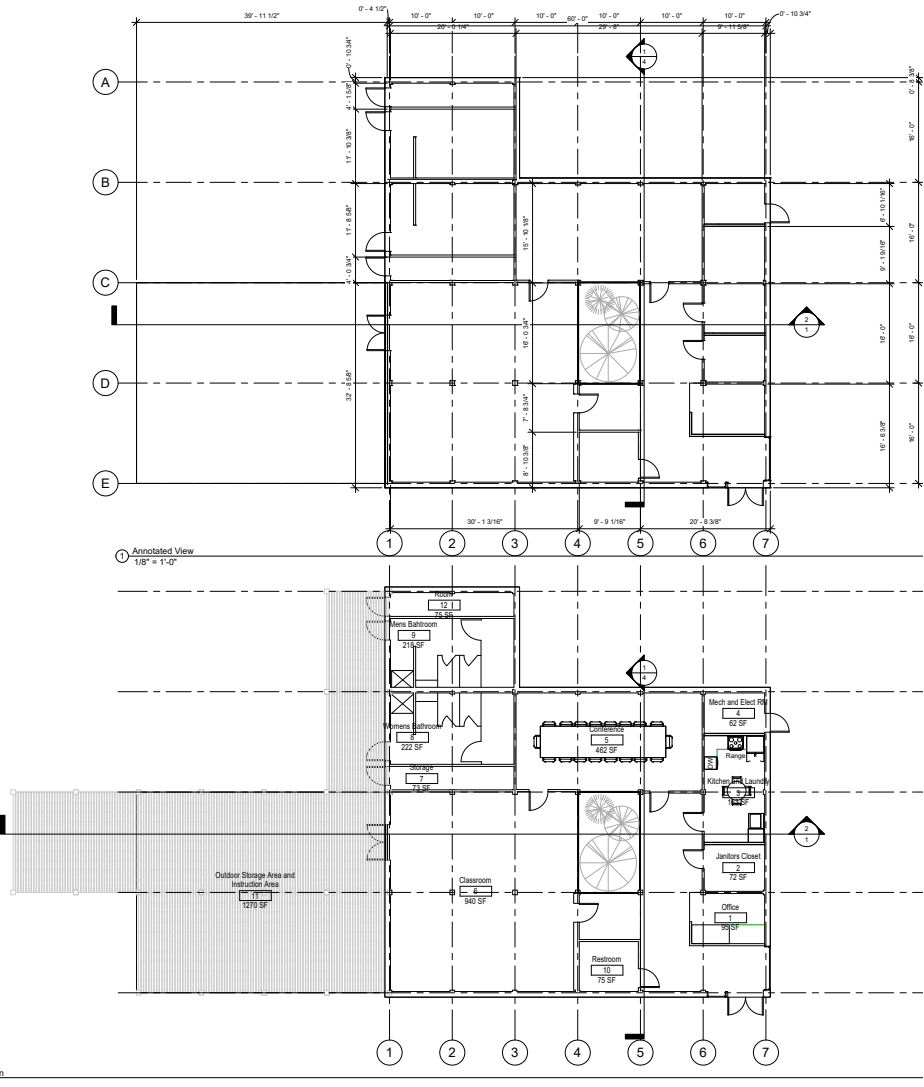
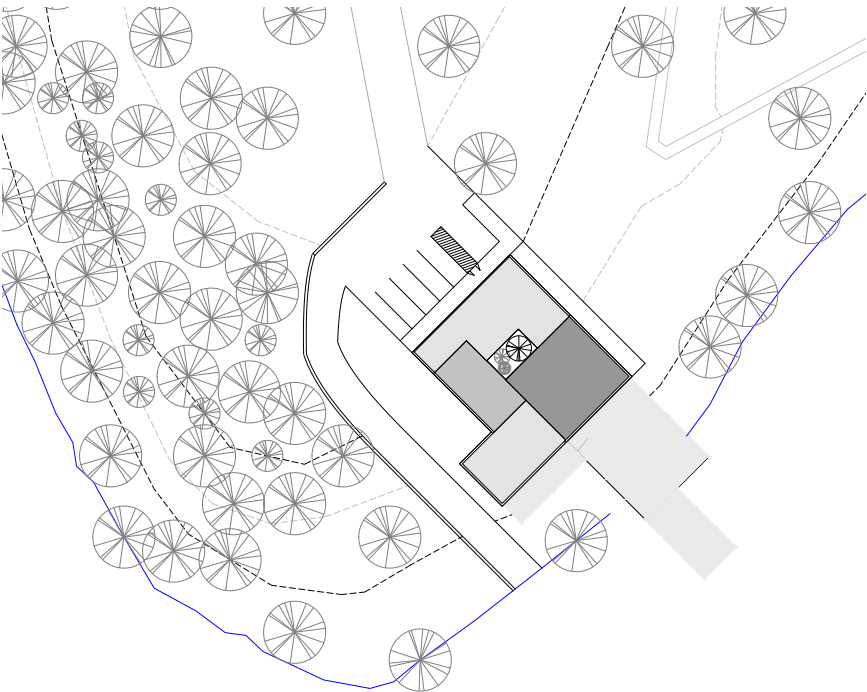
BUILDING SECTION 2

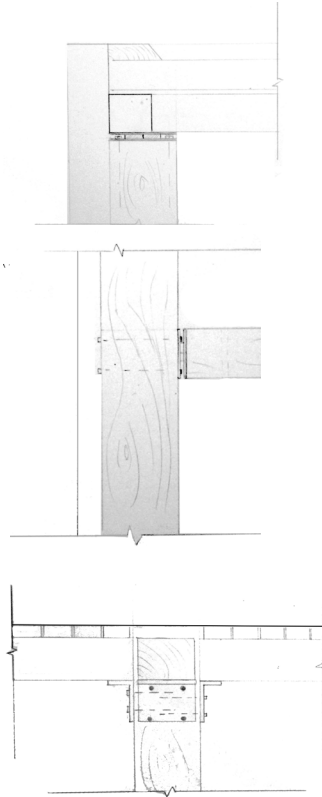
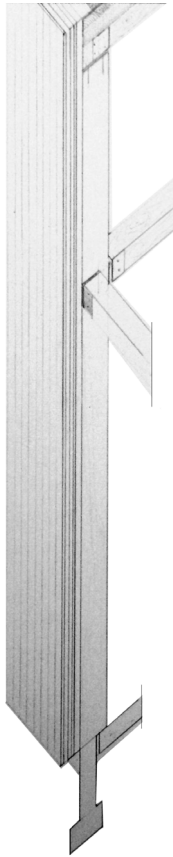
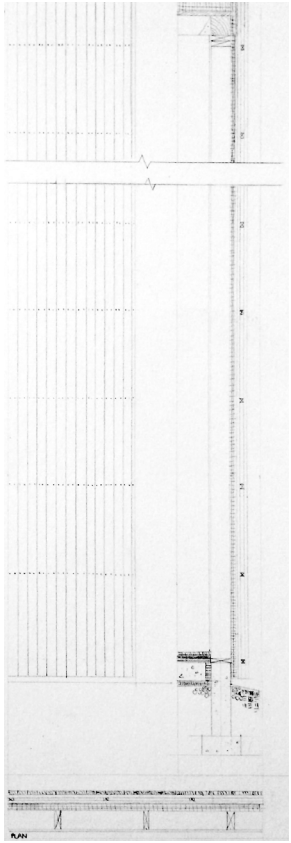
The wing of the building that lines the pedestrian promenade is terraced to allow for the use of the residents to over look the park which acts as the center of the entire project. The apartments are all stacked so that the structure and utilities all overlap and the hallways act as the distribution for all electrical and mechanical systems for the apartments.



PROJECT DESCRIPTION

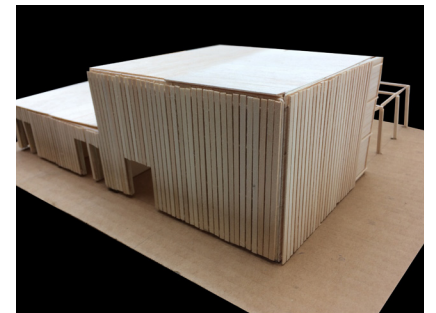
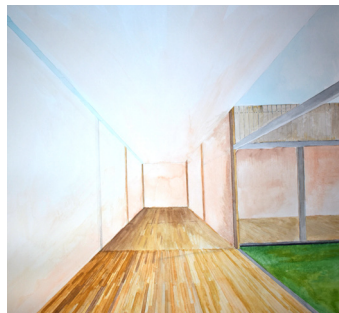
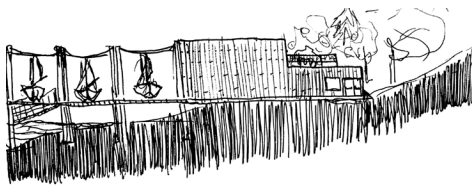
The grid was the driving force of the design. Based off of the dimensions of the larger sailboat needed to be stored the footprint grew in this module. Columns are placed at each crossing of the grid lines and the columns extend out forming the covered instruction area and dock. The most important aspect of the project is the grid and how the connections of the building are formed at these intersections. Also important is how the wall material in-fills in between each column while still allowing for the columns and beams to be exposed on the interior of the building.





STRUCTURAL CONNECTIONS

There is a family of structural connections that make up this building. Each connection allows for a separation and gap between elements that calls attention to each as a distinct part of the structure.

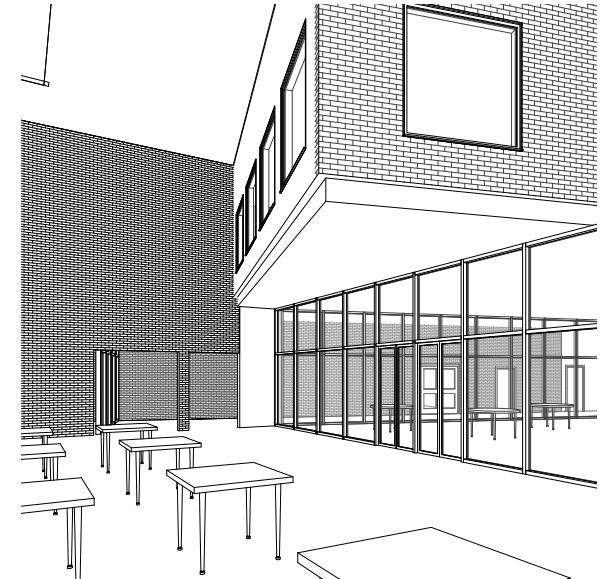


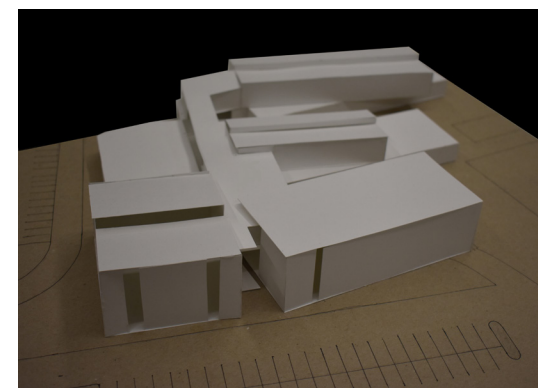
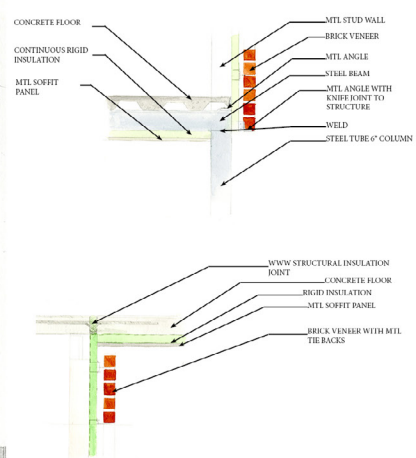
PROJECT DESCRIPTION

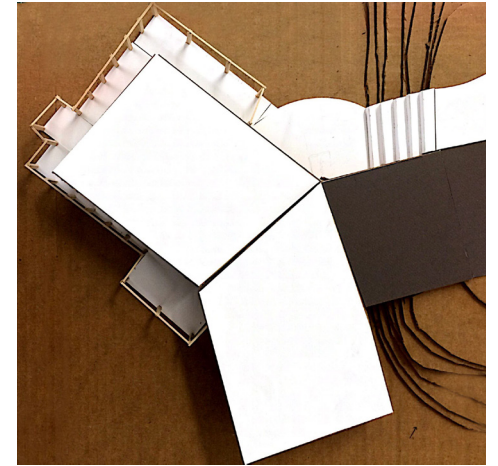
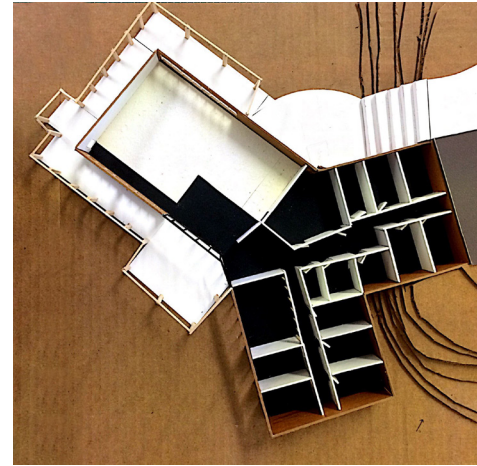
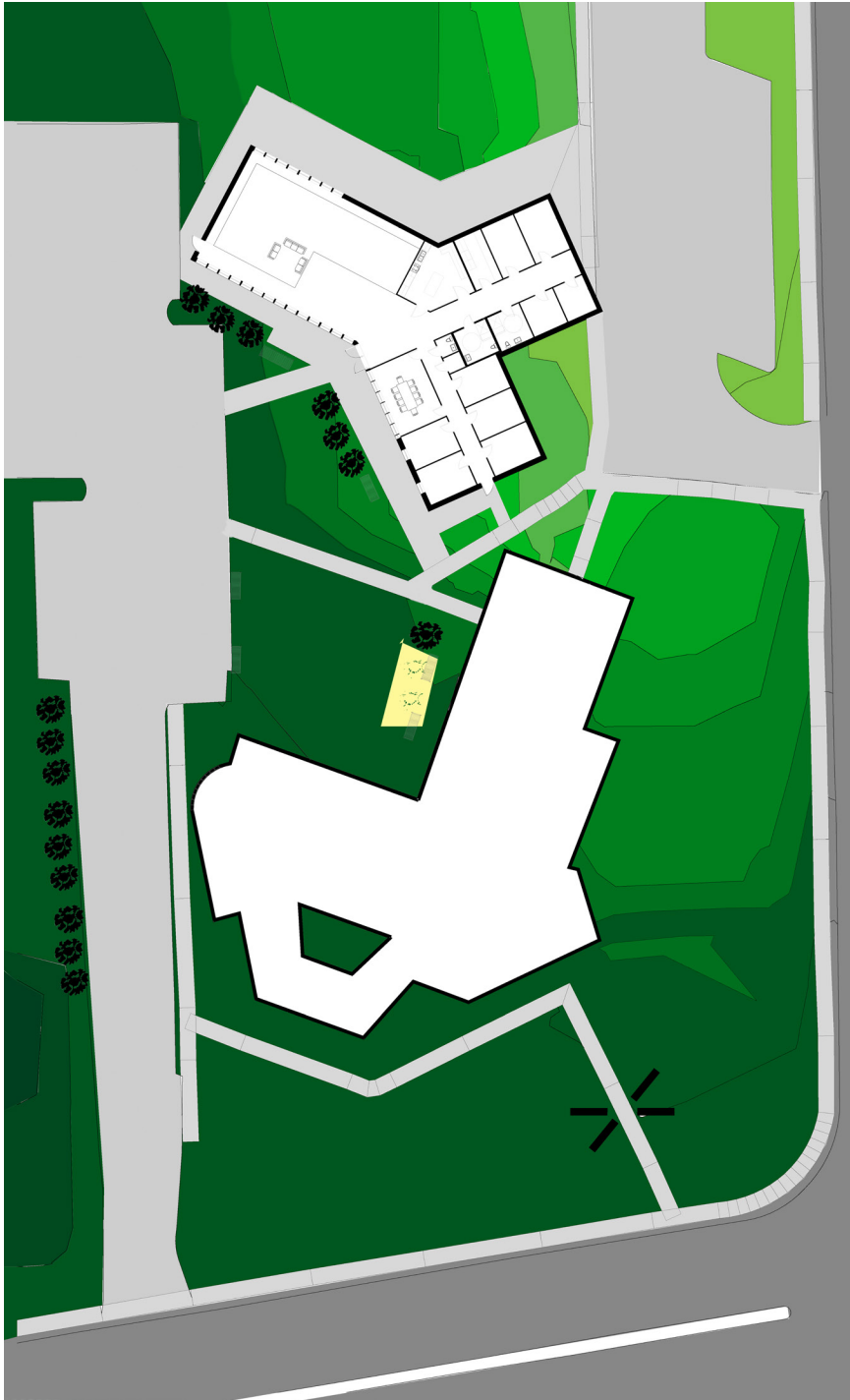
The goal of the design was to create an environmentally friendly elementary school that encouraged collaboration. The overlapping geometry of the design allows an interaction within the building between grades and also creates a dialog of how you experience a building from the outside with its overhangs. The many green roofs and natural lighting give a strong connection to nature which is an important characteristic to early education that is disappearing.

The complex geometry creates several structural challenges that are solved with the use of new materials and careful detailing. Ten key problem areas were detailed to solve these challenges that persist throughout the entire building.

Solar orientation was also a key factor in placing the building to optimize the amount of light and minimize heat gain. The plan extends in an east west orientation to gain as much natural light with a saw tooth roof on the upper floors that can also hold solar panels.





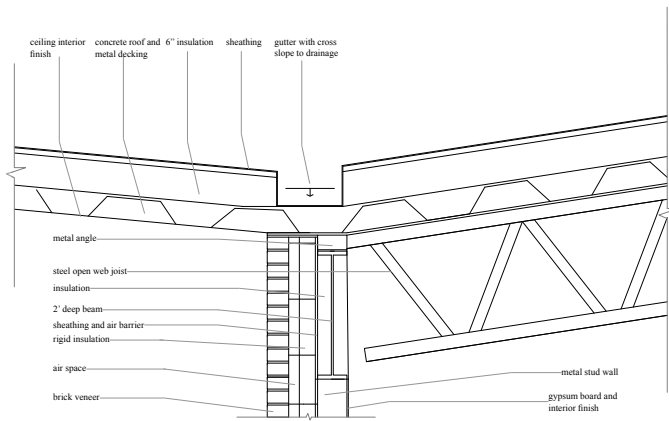


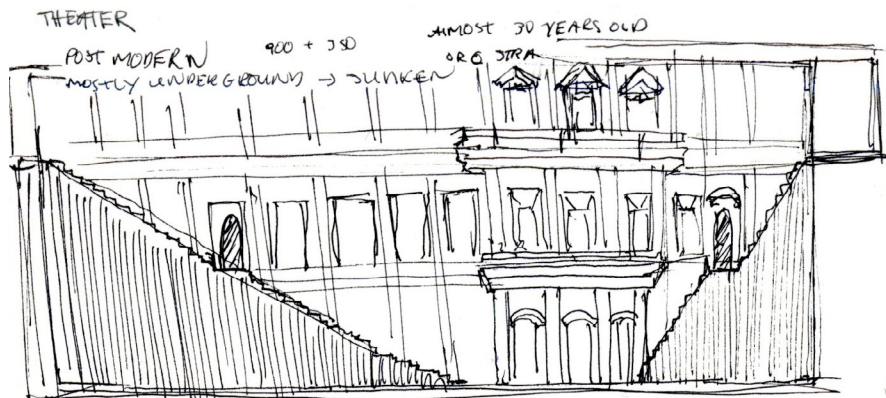
PROJECT DESCRIPTION

The To Our House Program helps provide shelter for a few nights for homeless people during the colder times of the year in Blacksburg. The goal of this project was to create a center that could function ideally for this use but also to help serve the needs of the community and the Church.

The obtuse splay of the building creates a welcoming area between the church and the center while a third wing embraces the hill where more parking is located on the site. The large overhanging butterfly roof creates sheltered area outside that wraps around the building creating a welcoming and protected entrance to the building.

The structure was a basic steel frame with a open web joist to make the span of the 35' roof. A simple brick veneer was applied to the outside to create a cohesive dialog of the church and the center creating a singular site.





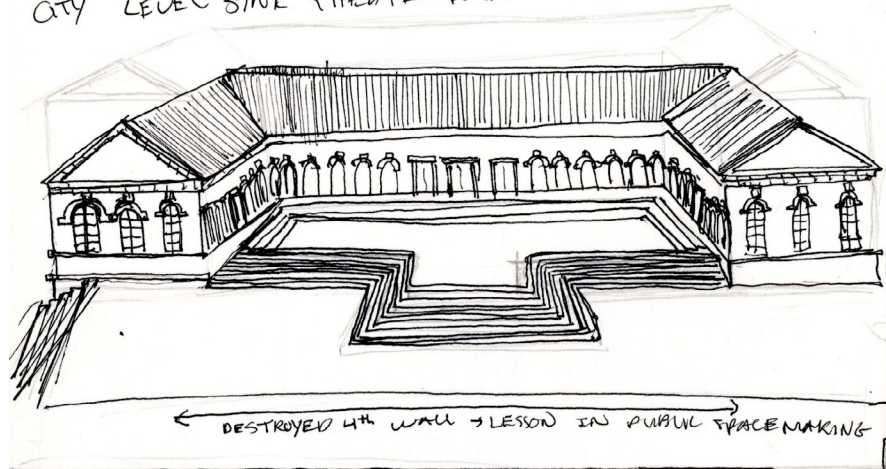
SIDE OF THEATER

N. 9 SEC REVERBERATION TIME

• 15-70 METERS BELOW

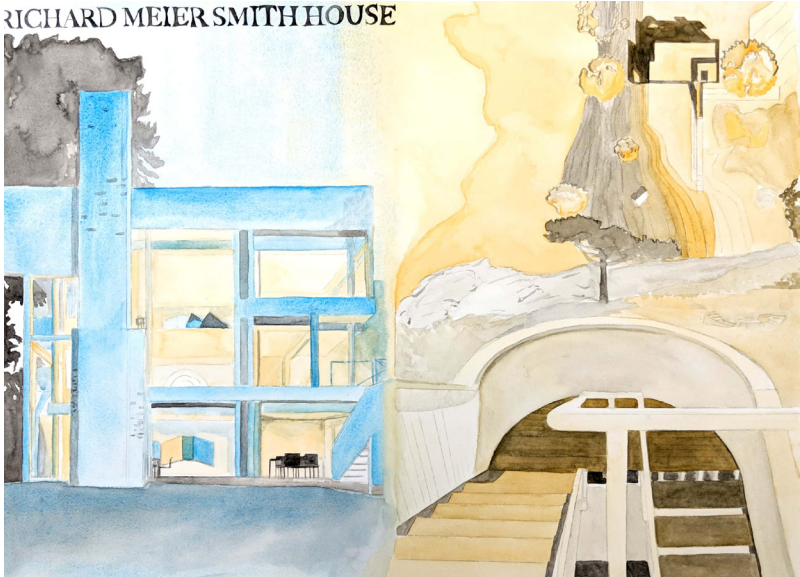
WOODEN INTERIOR

ROLE INTO CITY → IMPORTANT KEEP EXTERIOR AT OLD CITY LEVEL SINCE THEATER DOWN





RICHARD MEIER SMITH HOUSE



Water Color