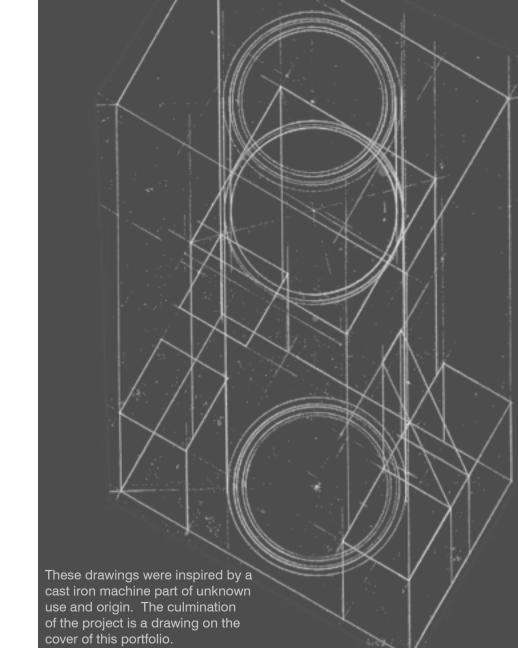


## CONTENTS

Construction Modeling
Analysis in Pencil
Digital Rendering
Elk River Water Tower





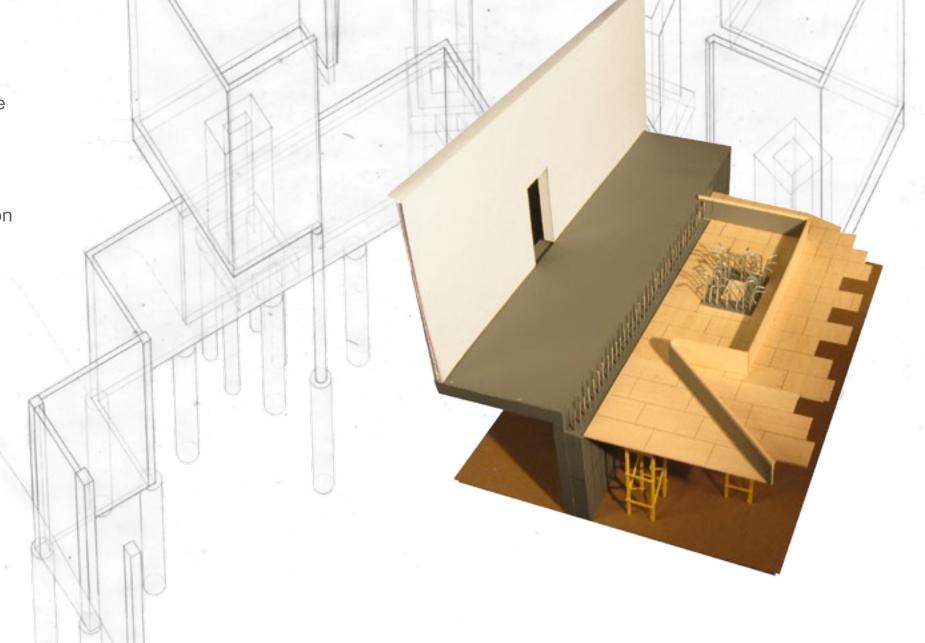


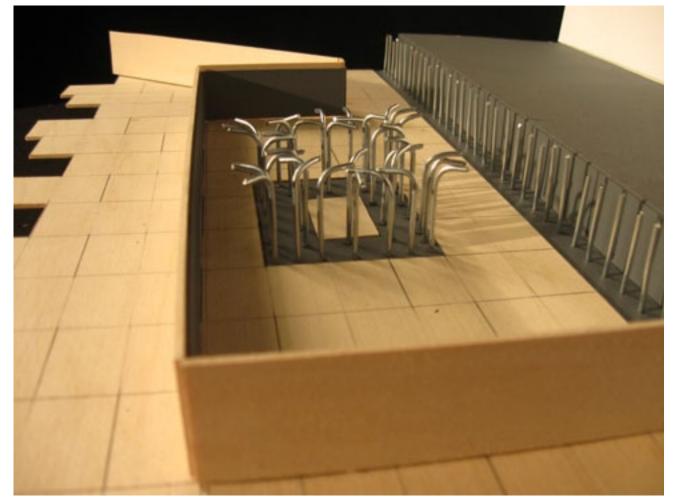


Four by Eight foot sheets of OSB have left their mark on the underside of the slab. This pattern was re-created in the model.

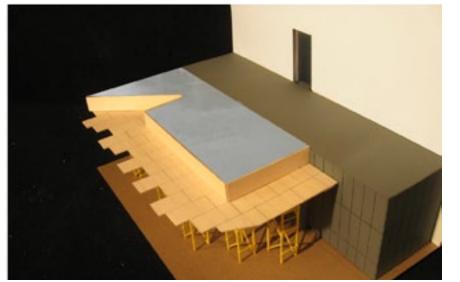
## **CONSTRUCTION MODELING**

New galleries at the Weisman seem to hover in the air. Using construction documents and on-site observation I've recreated the wooden structure which was used for the concrete pour. My model allows us to see the unseen by immortalizing part of the construction process. It is a new type of construction document.

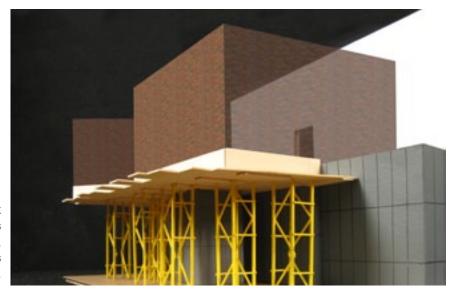




A paper lining along the inside of the modeled formwork gives the relative height of the pour. The concrete slab will rest upon a newly-constructed wall as well as a hollow square pillar. Steel wire represents rebar, showing us where the connections will take place.



A computer aided visualization, demonstrating the way concrete fills the void.



The formwork implicitly supports brick walls, although the bricks are yet to be laid.



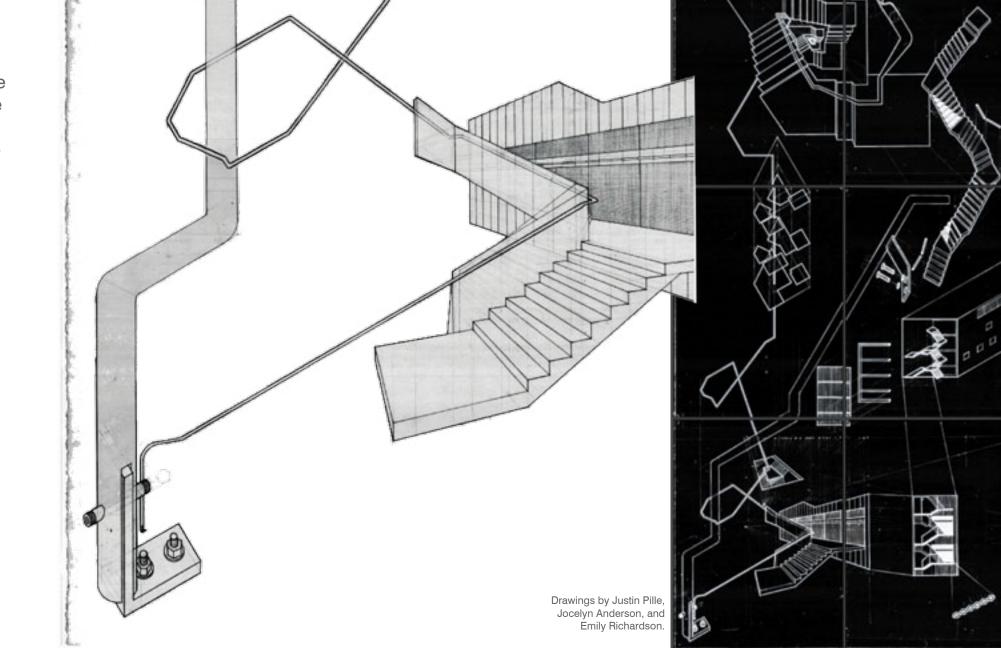


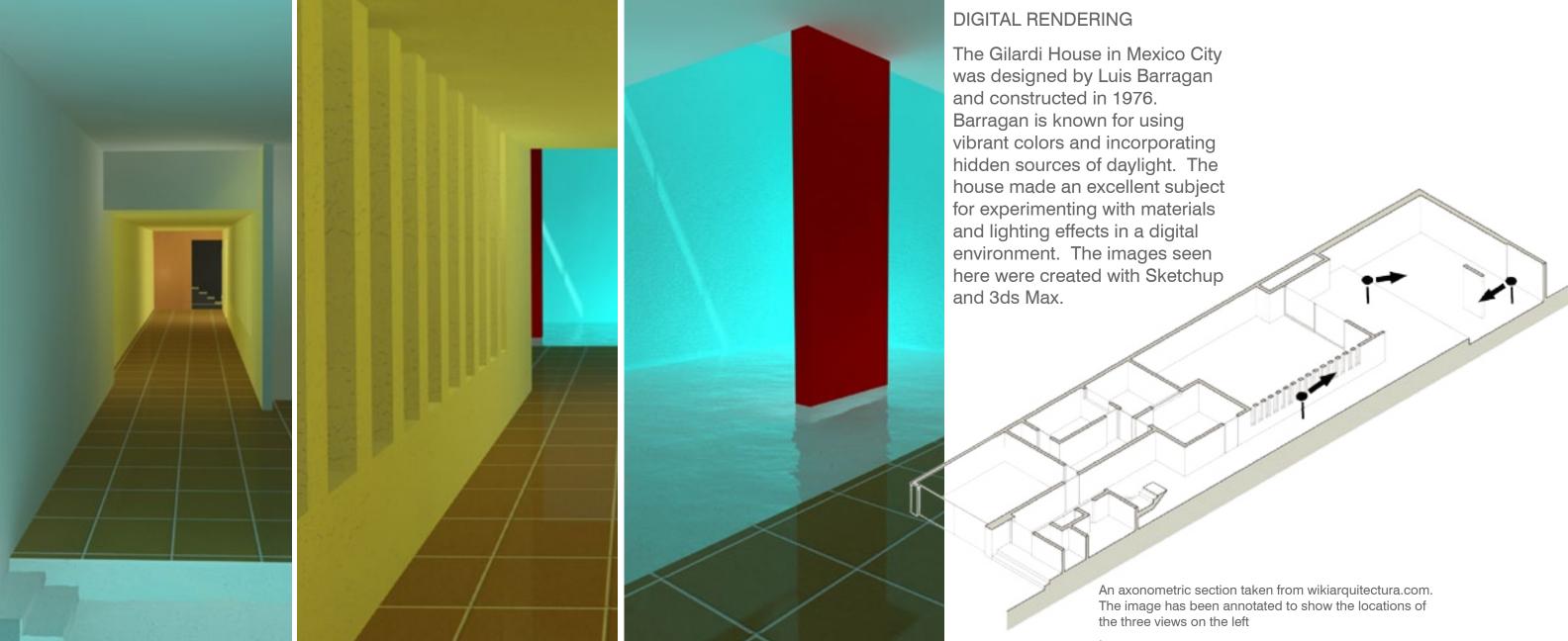


A stairway in Rapson Hall at the University of Minnesota is the subject of the drawings. It provides layers of texture and scale which we have projected onto the paper.

## ANALYSIS IN PENCIL

This project is a collaborative effort, hand drawn on six large sheets of paper. The purpose is to integrate analytical and immersive drawing in order to create a rich and meaningful representation of space. The idea of a railing is used in two different scales to lead us through the drawing.







## **ELK RIVER WATER TOWER**

In 1920 the city of Elk River, Minnesota built a world-class water tower.
Although it was replaced in 1985, the tower continues to stand as an icon of the city's history. Its days may be numbered unless a pragmatic argument can be made for keeping it.

My proposal allows the development of the land immediately surrounding the tower, while preserving its role as a landmark. A multi-purpose building can bring people to the site in order to experience it at arms length.





Historic downtown is where it all started for the city of Elk River. Whether intentional or not, Jackson Avenue points directly at the water tower and creates a stunning sight line.



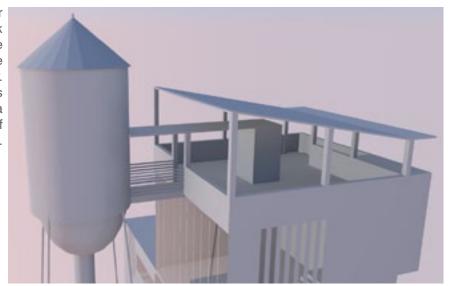
Looking down Jackson Avenue in 1960, courtesy of the MN Historical Society.



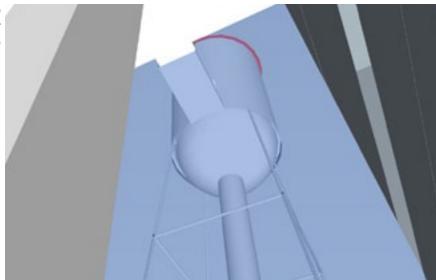
The same view from 2011, taken from Gateway to River's Edge Park.

The open-air observation deck gives us a chance to experience the height of the tower.

A walkway leads into the tank for a unique experience of enclosure.

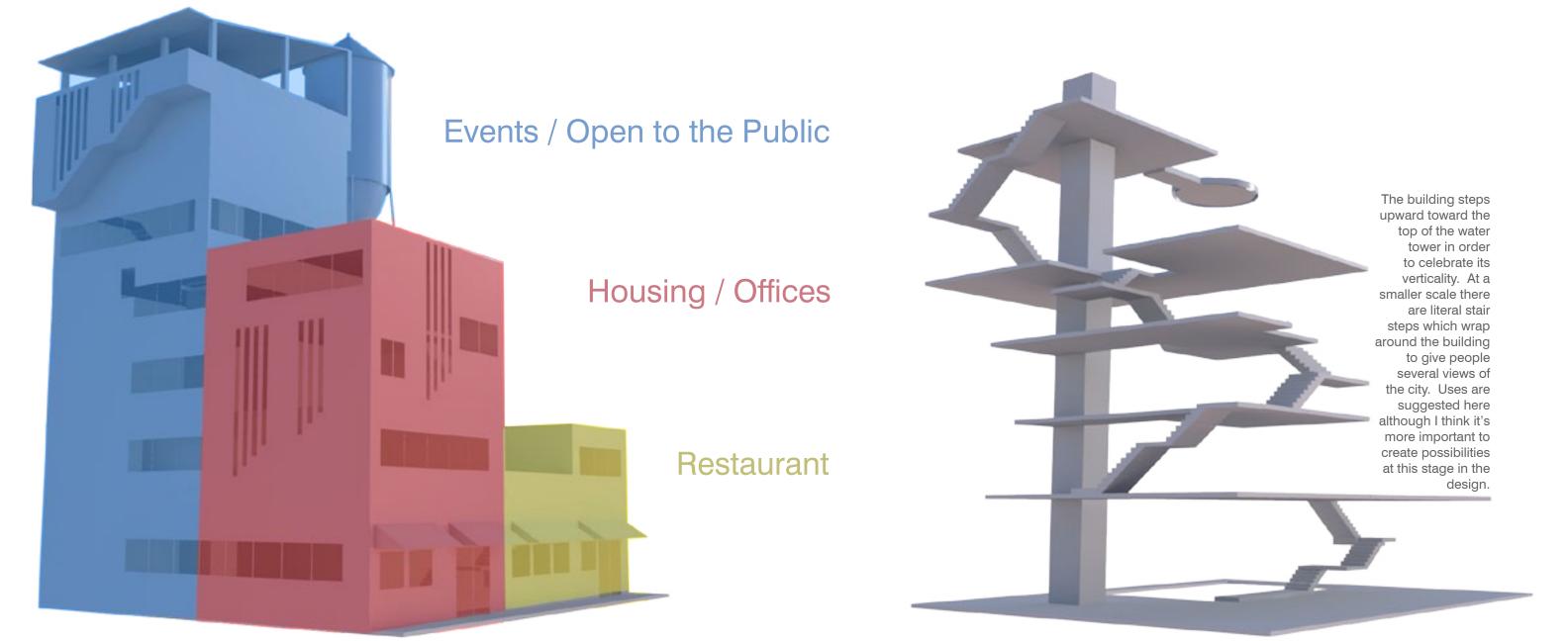


From inside the largest interior space, looking up at the tower.



An elevator shaft resembles the form of the water pipe. Those who ride the elevator have taken the place of the water. A four-story vestibule sits below the building's two observation decks, one of which is indoors. While Elk River residents are used to seeing the water tower from the ground, they can now survey the ground from the tower.







A simulated view from Jackson Avenue