

Panther Hollow Lake Event Space

Carnegie Mellon School of Architecture

48-305 Third-Year Studio, Spring 2010

Instructor: Jeff Davis

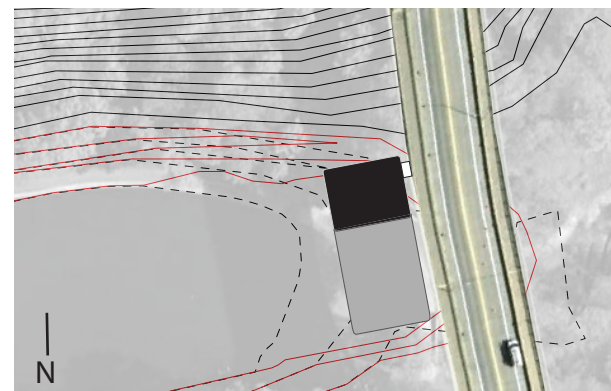
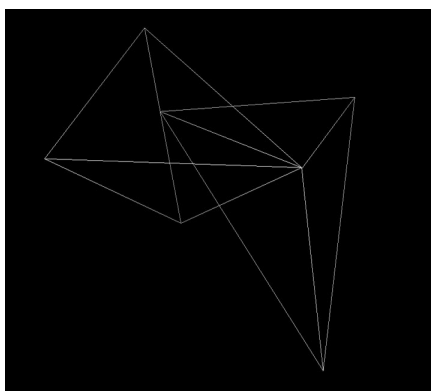
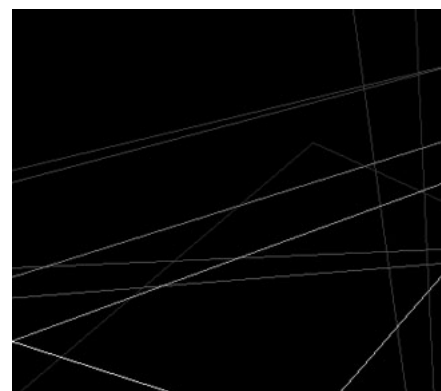
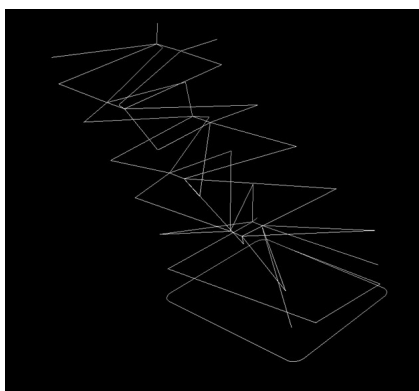
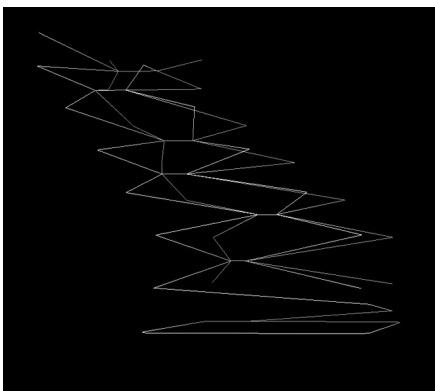
How do you think of building in the active, temporal sense where structure and space are always in the process of becoming? How do you create a build that is an event in itself? In this project, the event is moving through, or down into, the space and perceiving others make the same procession. The void becomes the event.

One moves off Panther Hollow Bridge and into a network of stucture, in which steel beams are intermixed with concrete ramps that act as vertebrae for circulation. The space is a foil to the bridge in that structure becomes something to move through and engage rather just pass over. The program is nested in the "walls" of the building which are composed of vierendeel trusses. Where the program occurs the truss begins to mutate and allow the program to take place.

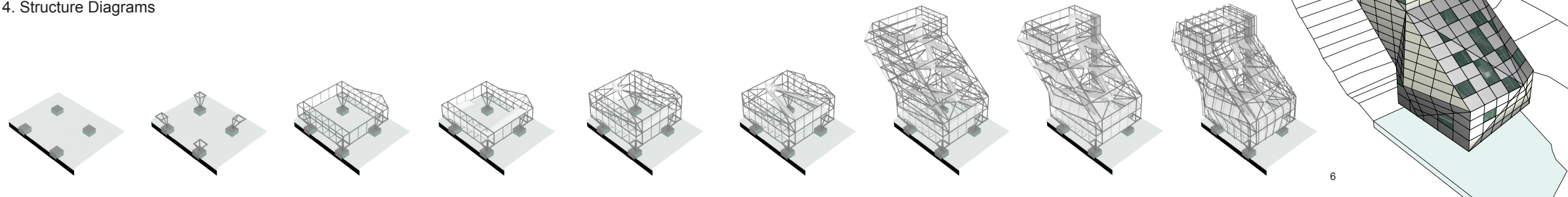
The build is enclosed by a system of insulated metal sandwich panels which are held off the main structure by their own separate system. The envelope responds to the program truss and to the environment. The folding of the and bending of the form maximizes southern exposure and angle the skin towards the sun. The building also takes advantage of its height by using the Stack Effect to draw air through the space.

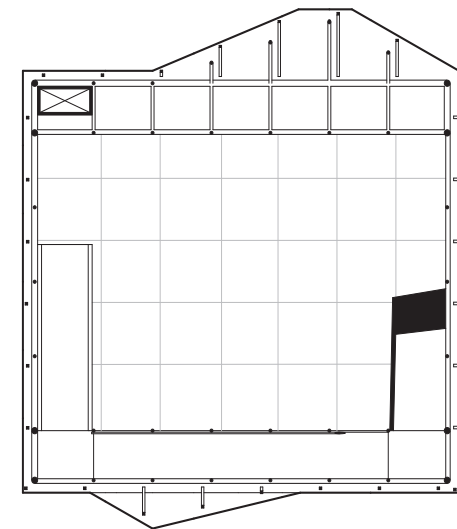
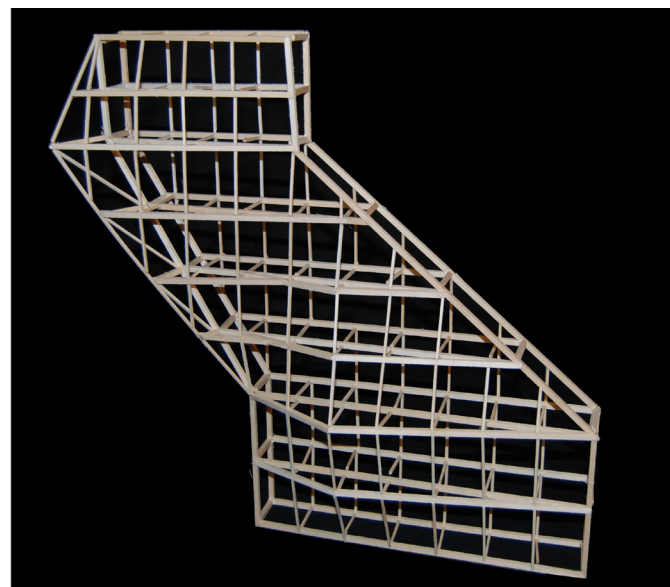
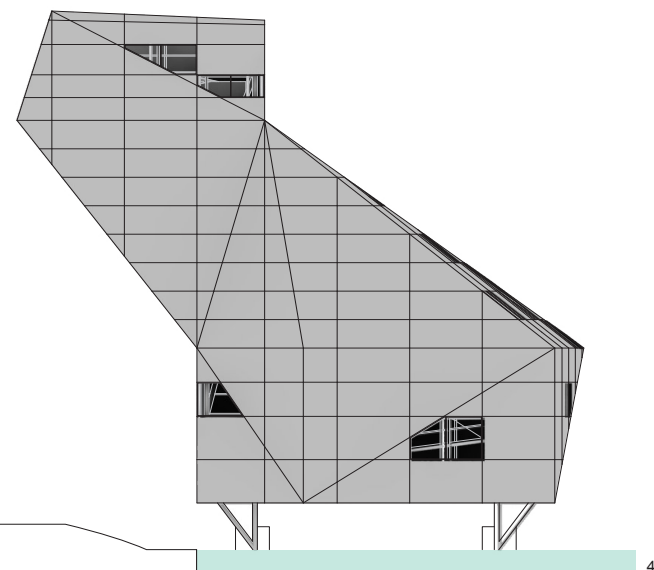
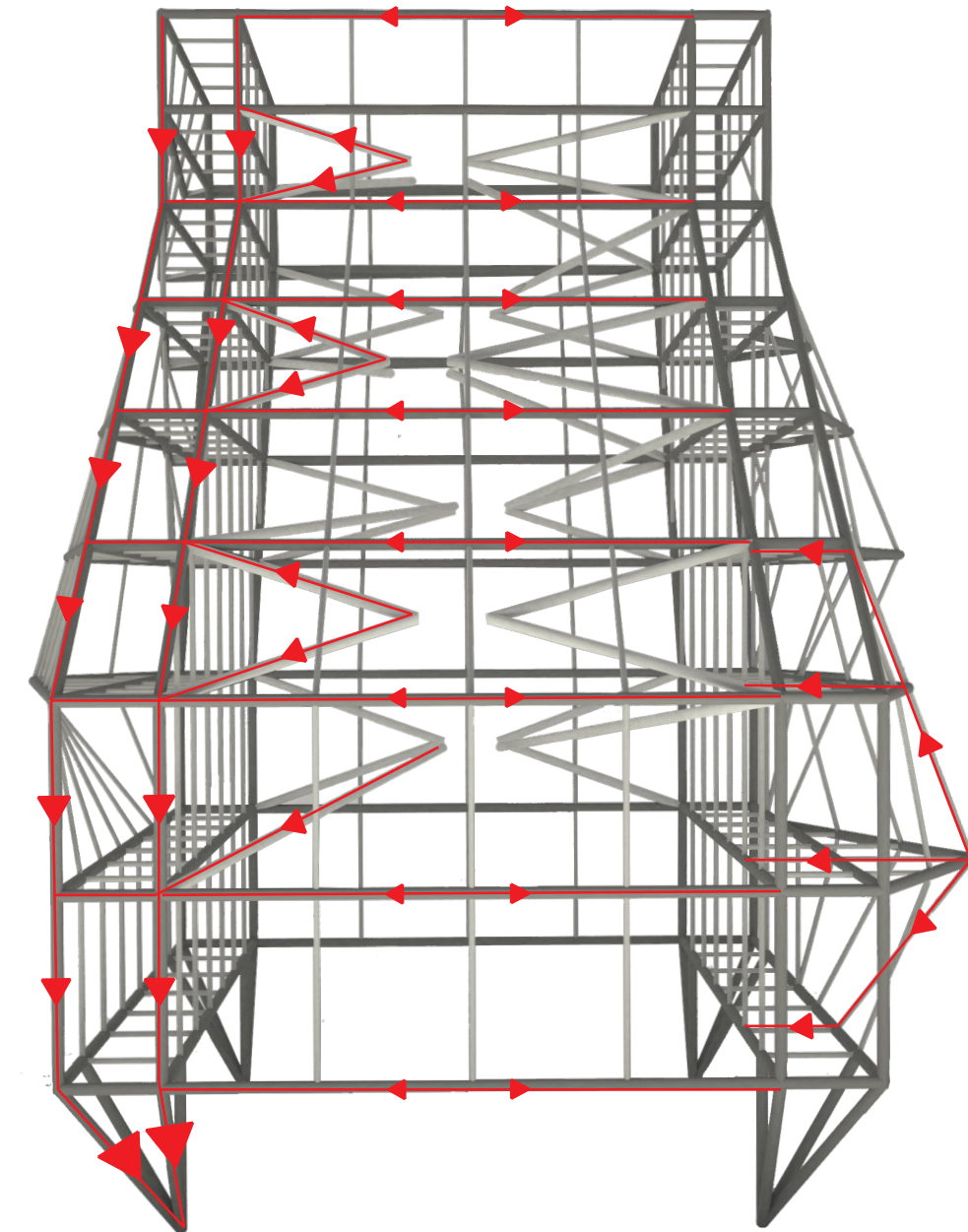
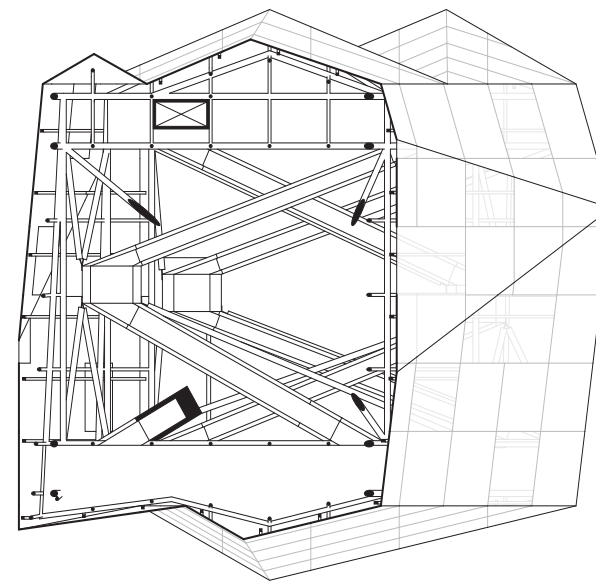
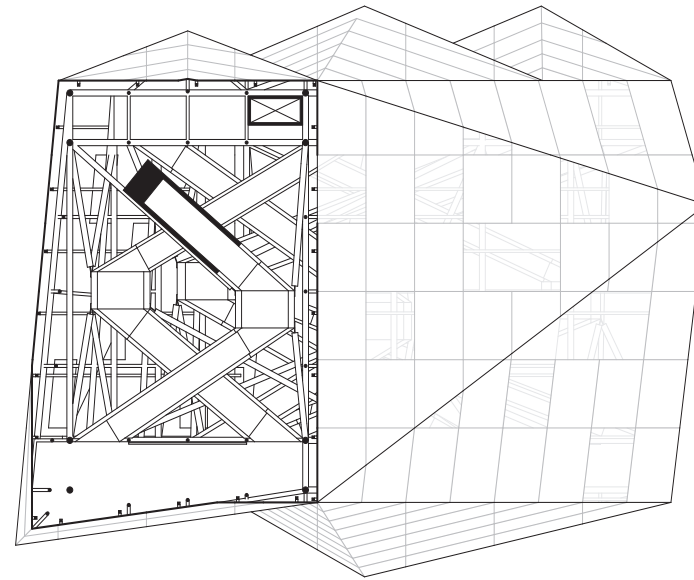
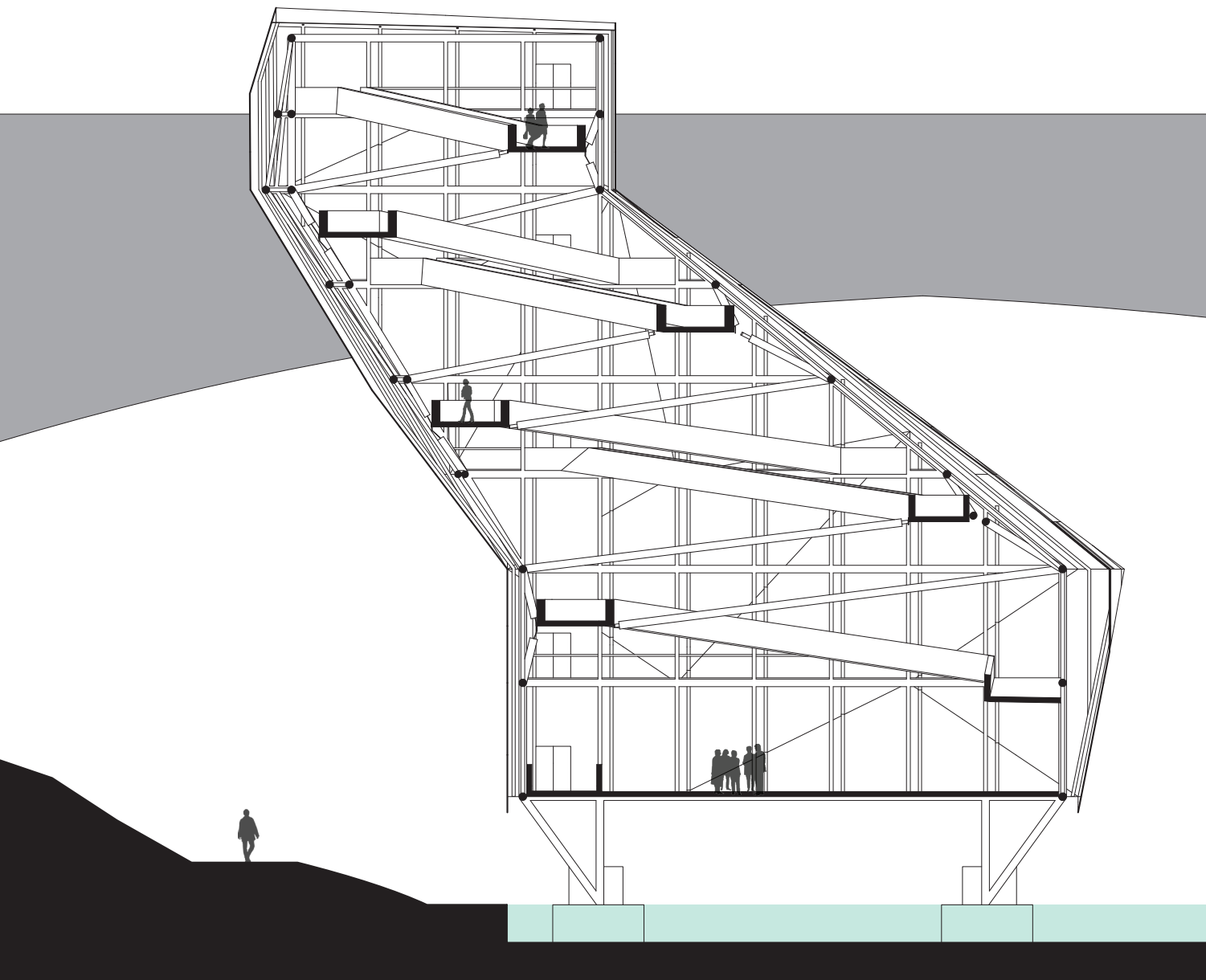
The building is constructed as a series of horizontal layers. The layers are stacked on top of each other and then coated with the skin. The assembly of each layer is as follows: section of truss wall, central concrete landing cast on-site with steel beam supports, adjoining precast concrete ramps, and finally, the floorplate cast on-site.

Though it has strong presence on the site the building never quite touches ground of the park. Instead it is held off and hovers over the water as an independent entity and its own event.



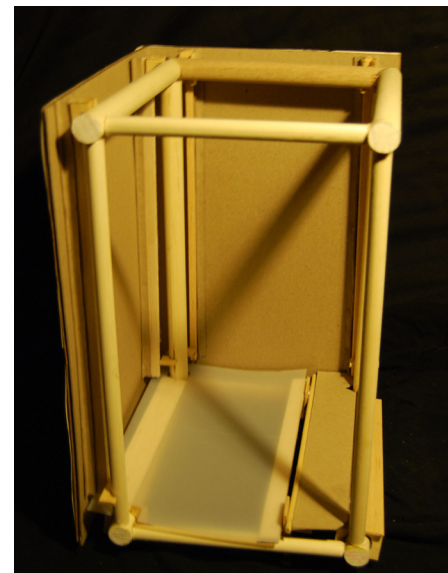
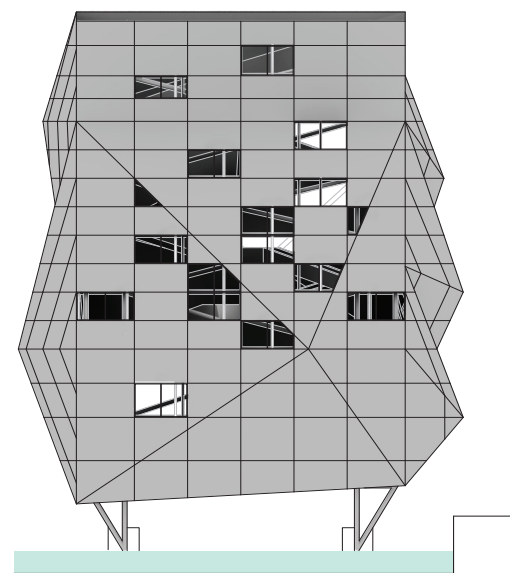
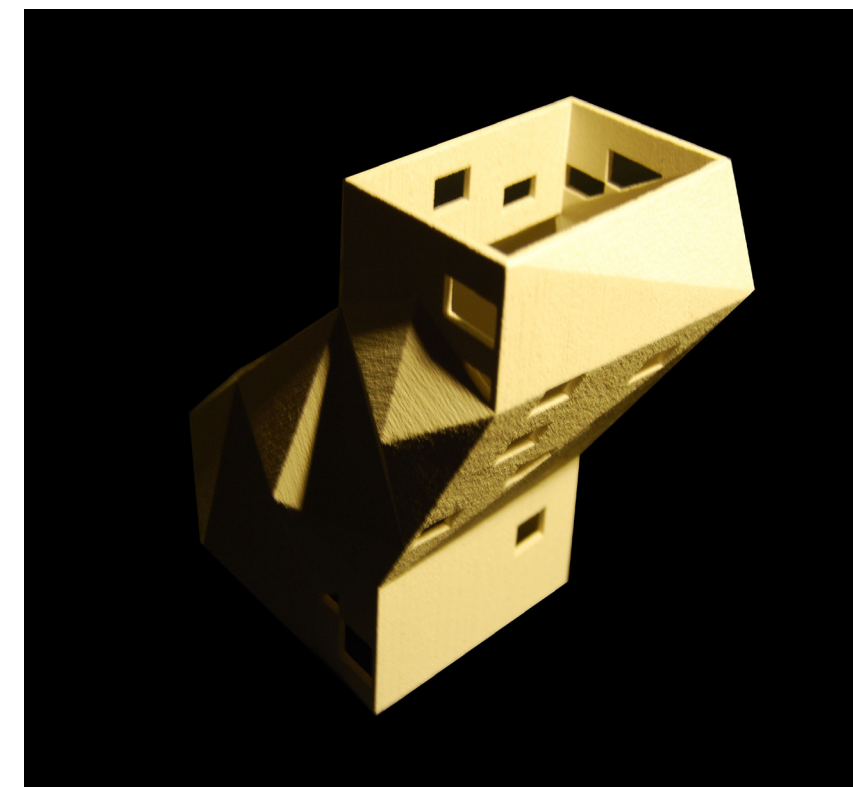
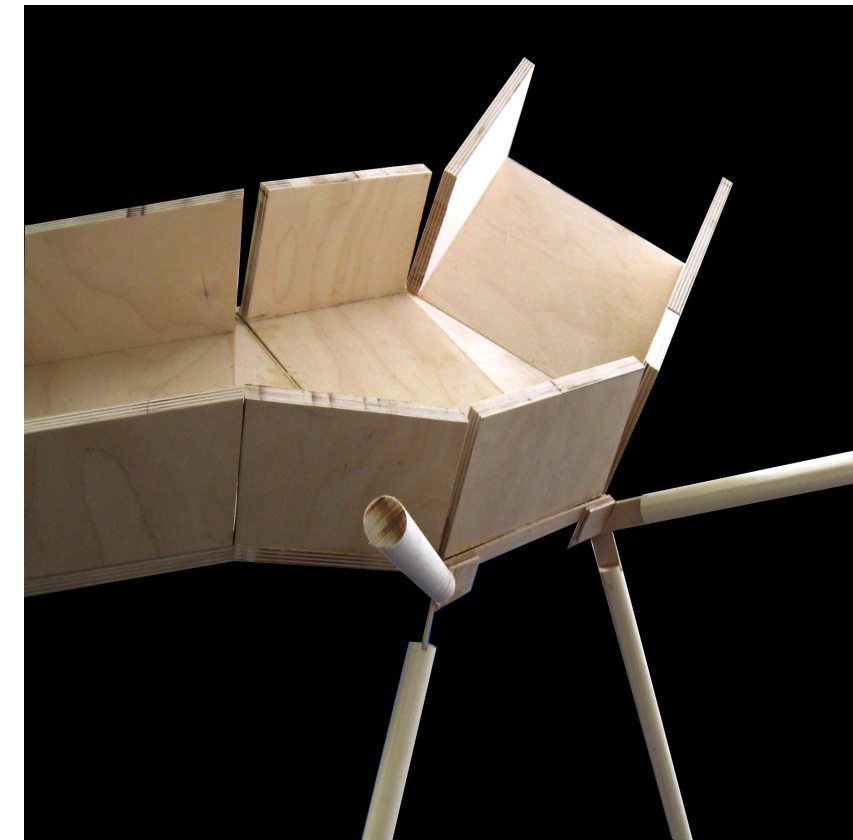
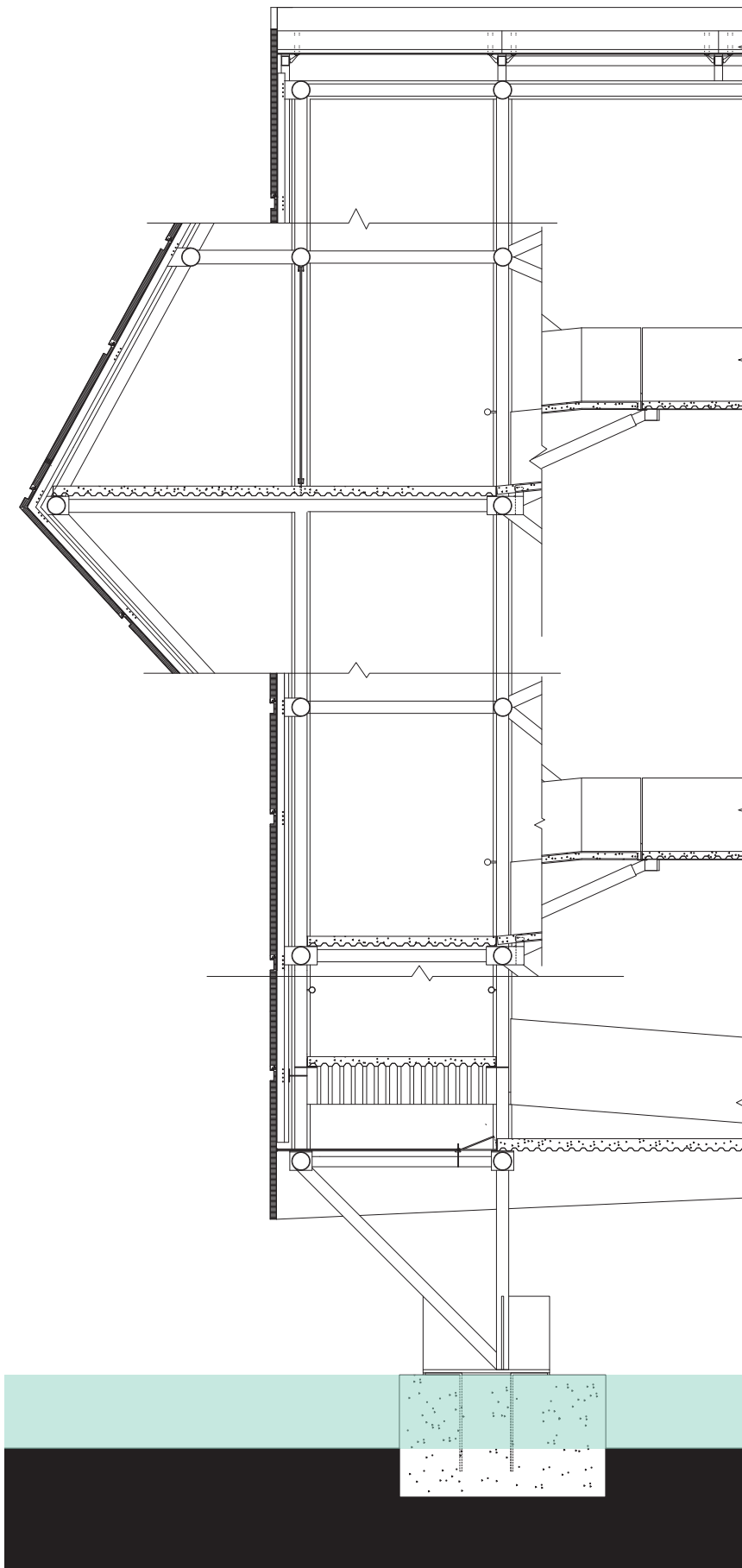
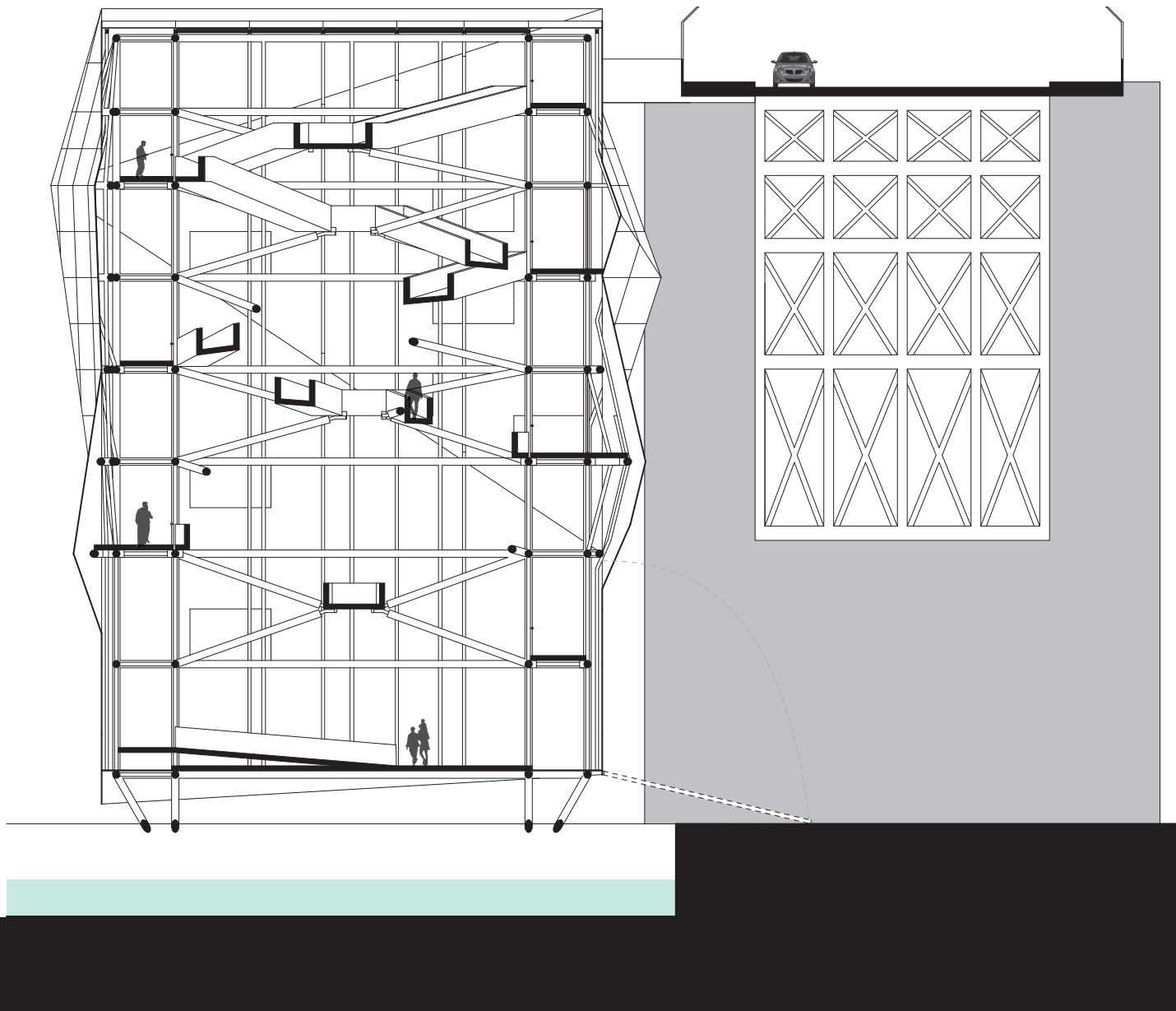
1. Study Model
2. Study Model
3. Program Diagram
4. Structure Diagrams
5. Site Planvi
6. Construction Sequence
7. Axonometric





1. Longitudinal Section
2. Plans
3. Load-Path Diagram
4. West Elevation
5. Wall Truss Model
6. 3-D Print Envelope Model

3 Zach Cohen



1. Transverse Section
2. Wall Section
3. Ramp Detail Model

4. South Elevation
5. Bottom Wall Section Model
6. 3-D Print Envelope Model

