



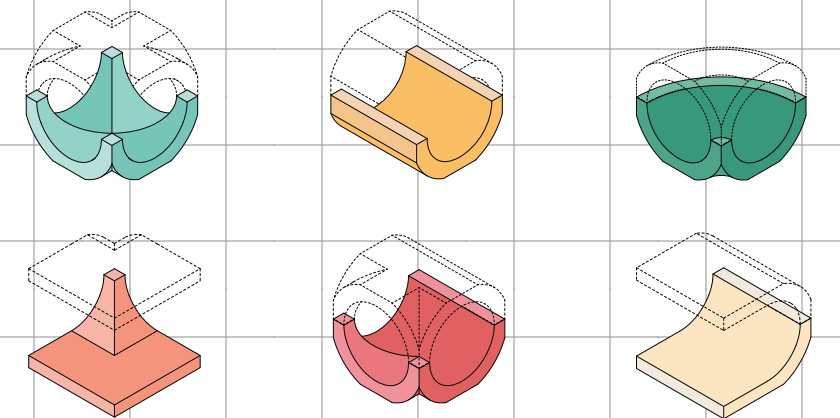
TOTALLY TUBULAR

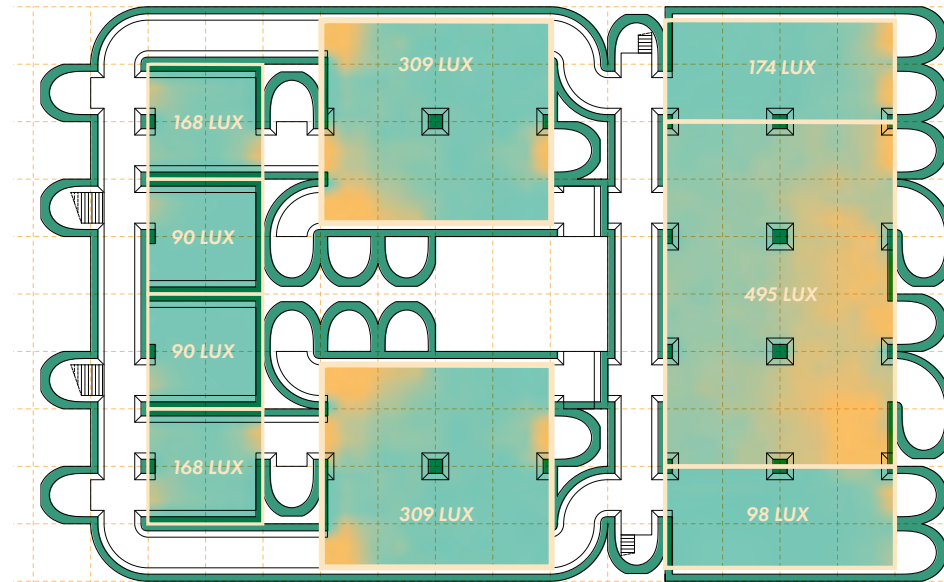
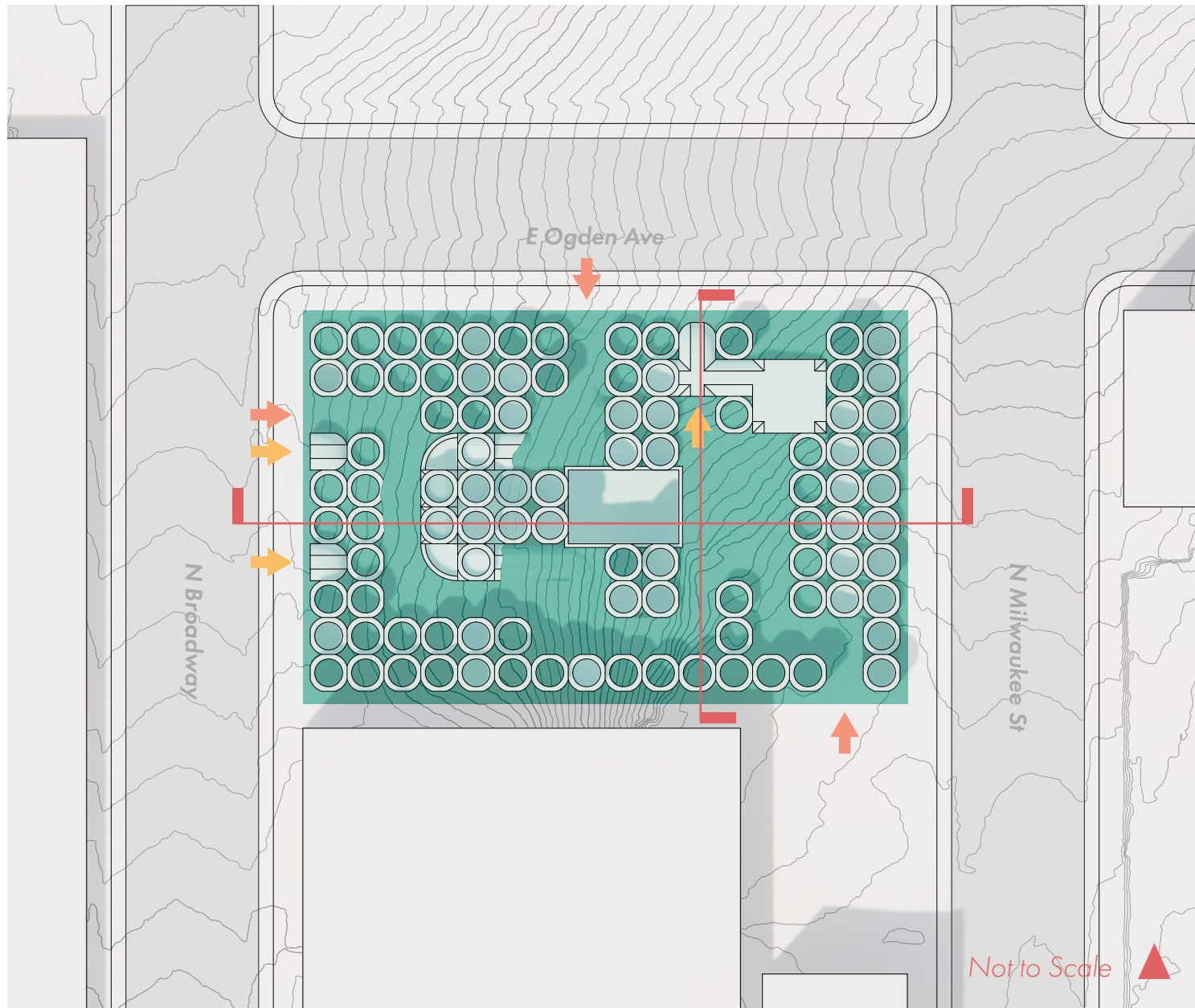
Bending Light with Mass

Concrete as a building material is heavy both in the sense of its presence and environmental impact. The goal of this project, to lighten concrete, is to use the massive forms to modulate sunlight and find an appropriate design case that justifies the high embodied carbon content. My partner and I developed six distinct modules each fitting within a 15x15 feet square and measuring 7.5 feet tall, allowing for easy transport on a commercial semi-trailer. By stacking a module upside down on another one, it forms a complete floor, wall, and roof

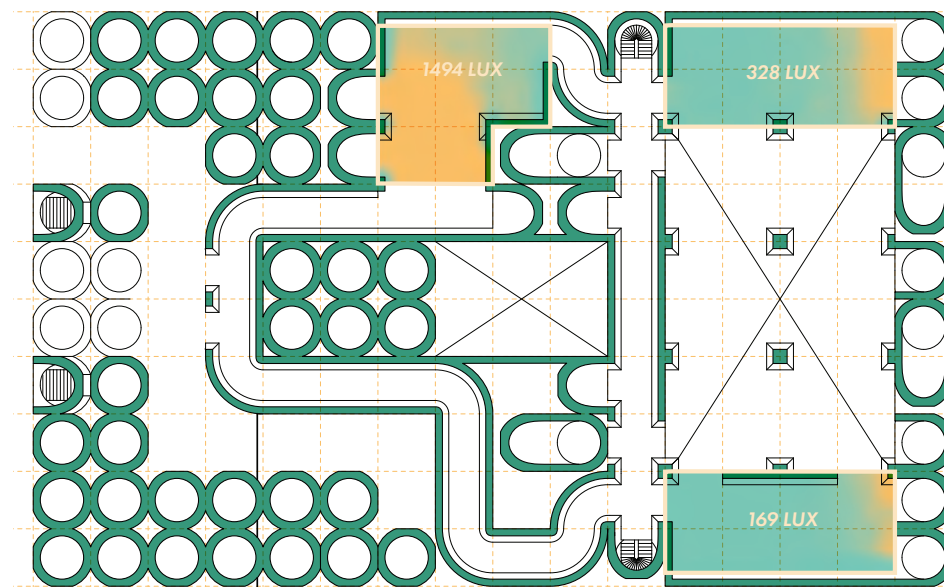
system within a cube. These six forms come together to form endless combinations of space and light. The curving and twisting modules can bend sunlight and reflect it into deeper space, allowing the entire aggregation to be buried underground and freeing up the surface for other activities and uses.

The work shown in this submission is substantially my own. Built models, graphics, and photography are created by me unless otherwise noted.

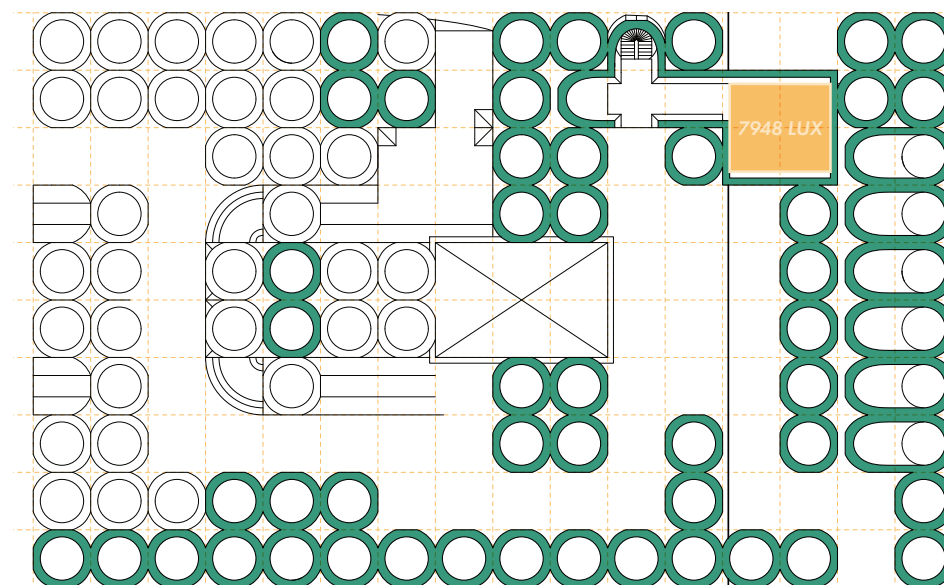




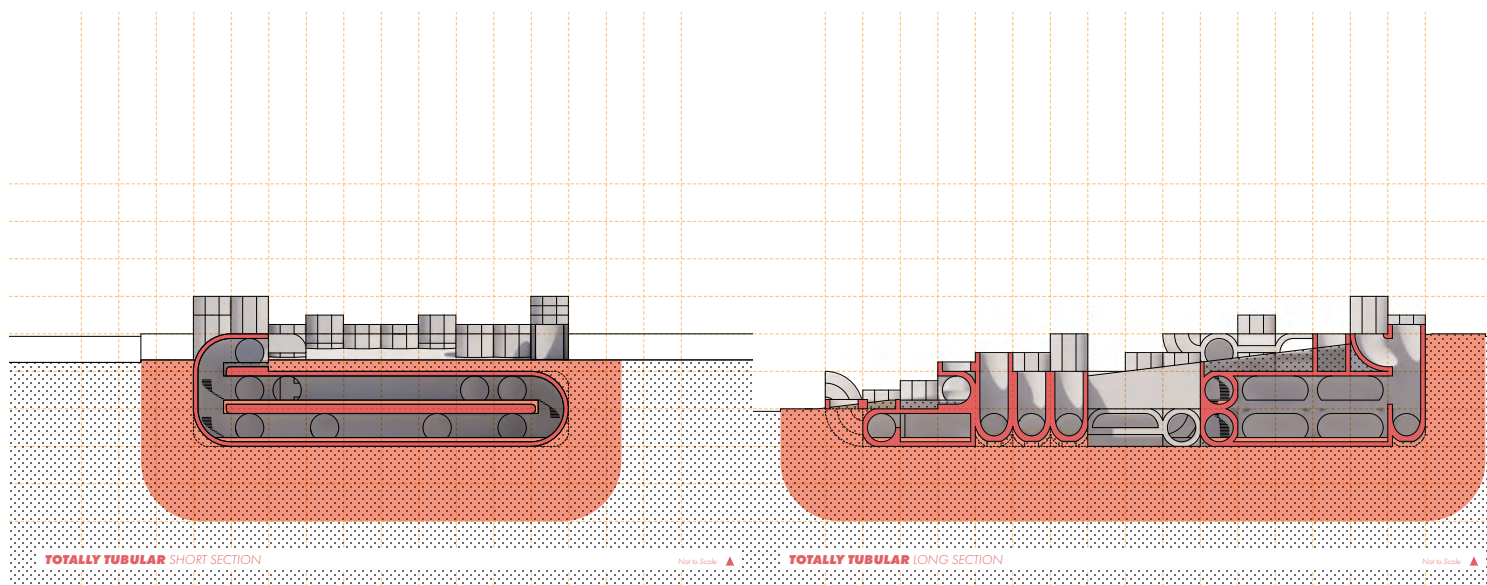
FIRST FLOOR
 Users enter from the west and descend into the first floor of the building. As they travel deeper into the buried building, the spaces open up and bring in more light, culminating in a glowing double height atrium.



SECOND FLOOR
 As the users ascend to higher floors of the building, they are exposed to more light funneled down by the light tubes.



THIRD FLOOR
 Finally, users surface to the third floor which connects to the upper part of the public plaza. They can peer back down the sunken courtyard and observe passerbys on the first floor.





Photograph taken by Felipe Paez



SYSTEM MODELED 1/16":1' MODEL WITH REMOVABLE FLOORS AND LIGHTING

