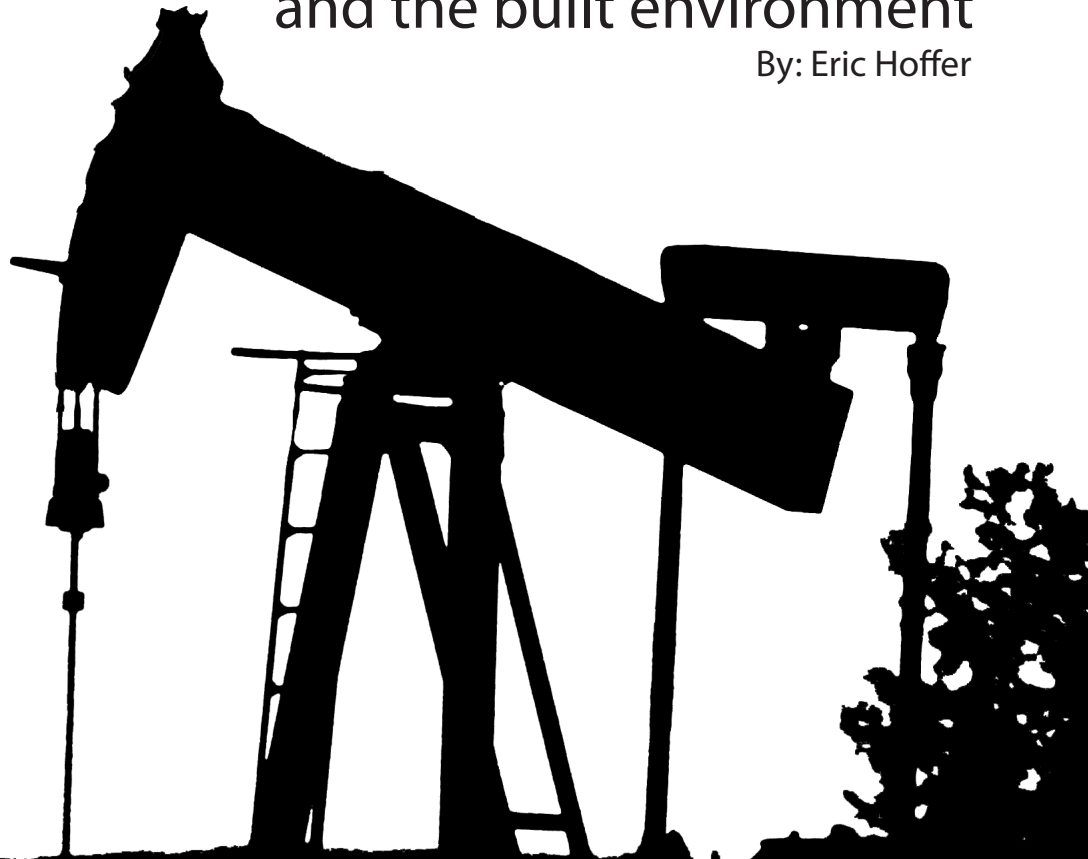


# OIL

and the built environment

By: Eric Hoffer



## **Problem Statement**

In what ways do oil drilling operations affect nearby communities?

## **Theoretical Premise**

During an oil boom, steps must be taken in order to prevent communities from collapsing and becoming ghost towns when the boom ends.

## **Project Justification**

When an oil drilling site is abandoned, so too is the community in which it created. In order for the community to continue to thrive, it is crucial that design decisions are sensitive to the volatility of the business.



## **Typology**

This is a residential typology in the form of a housing community that is able to adapt to the various needs of an area in transition.



A map showing the Bakken Formation in North Dakota. The formation is shaded in light brown and labeled "Bakken Formation". It is bounded by thick orange lines representing major roads or highways. Four cities are marked with blue dots and labeled with their names and populations: Stanley (Pop. 1,300), Williston (Pop. 13,000), Minot (Pop. 37,000), and Bismarck (Pop. 56,000). The map also shows a network of orange lines representing other roads and a grey line representing the formation's boundary.

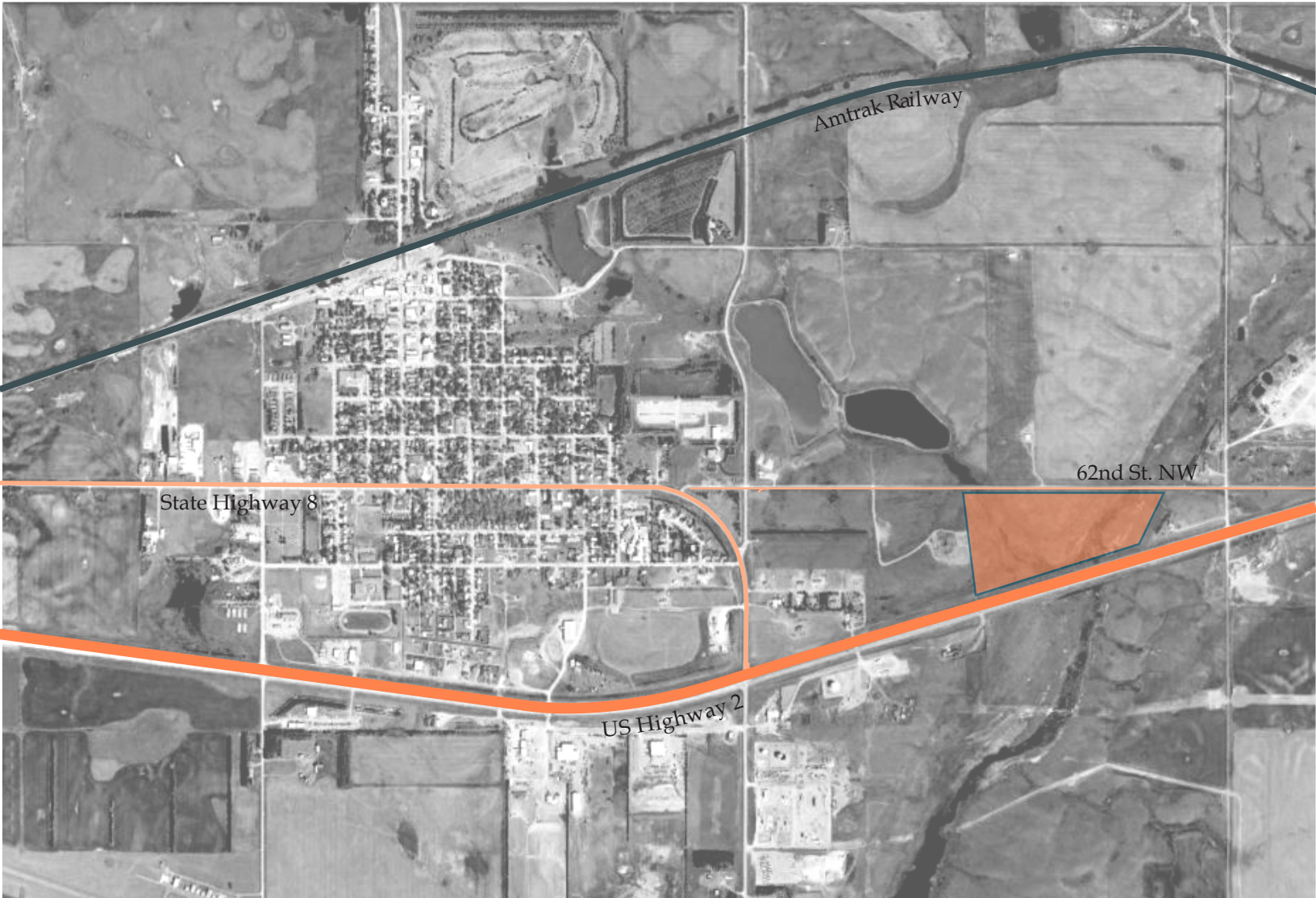
# Bakken Formation

Stanley  
Pop. 1,300

Minot  
Pop. 37,000

Williston  
Pop. 13,000

Bismarck  
Pop. 56,000



Amtrak Railway

State Highway 8

62nd St. NW

US Highway 2



62nd St NW (Section Road)

RV Park

Inert Waste Landfill

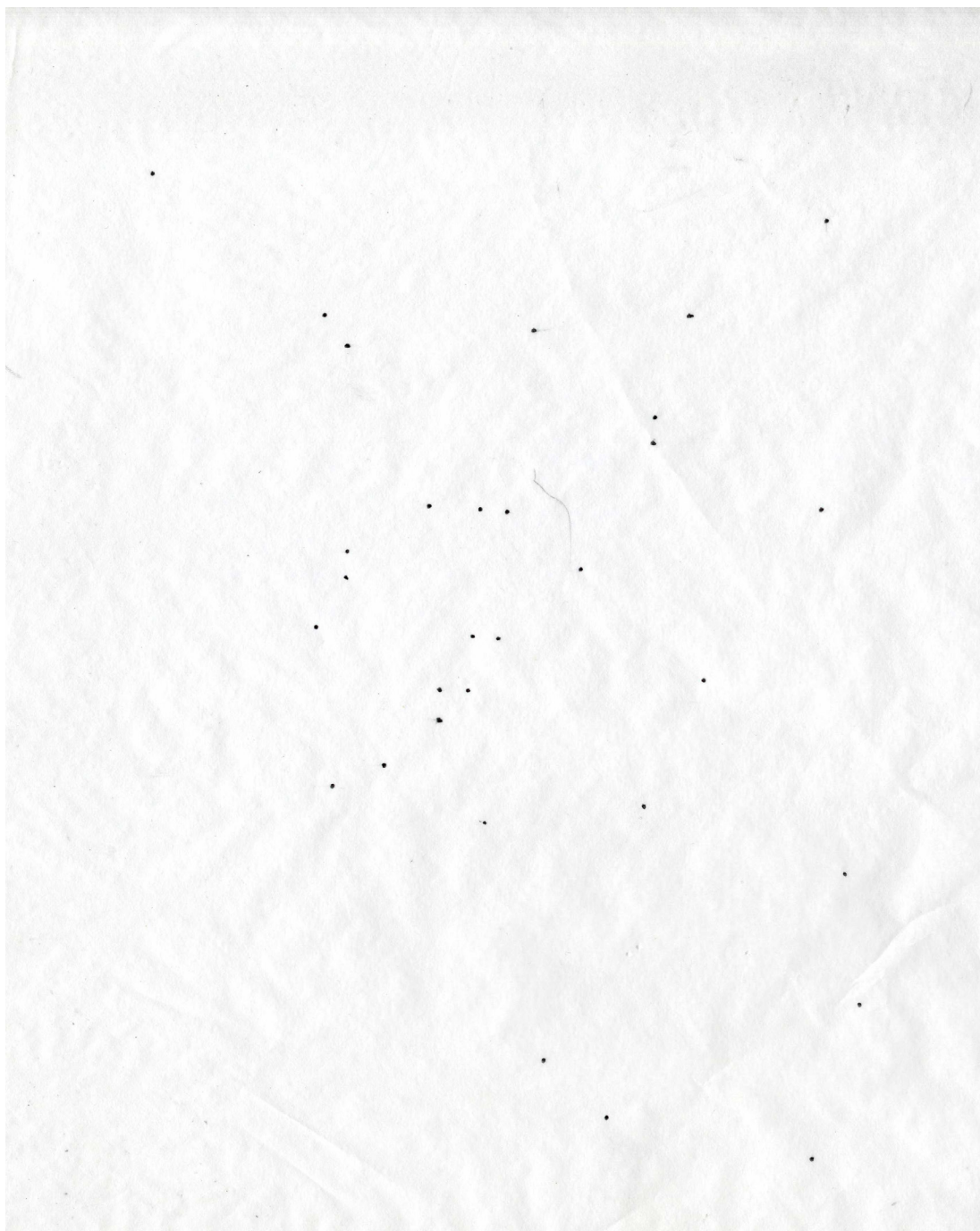
U.S. Highway 2 (4 lane)

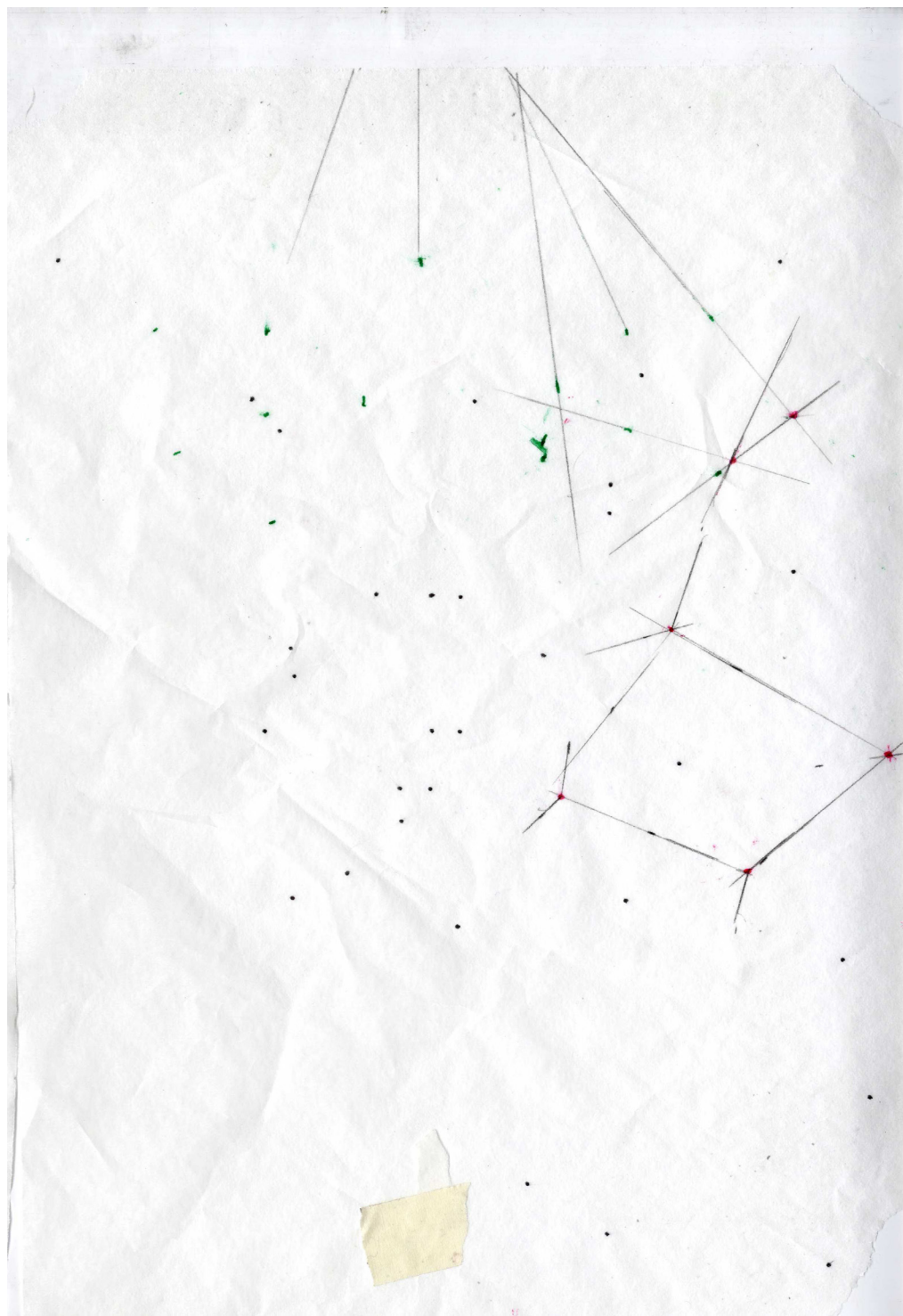
Section Line

North

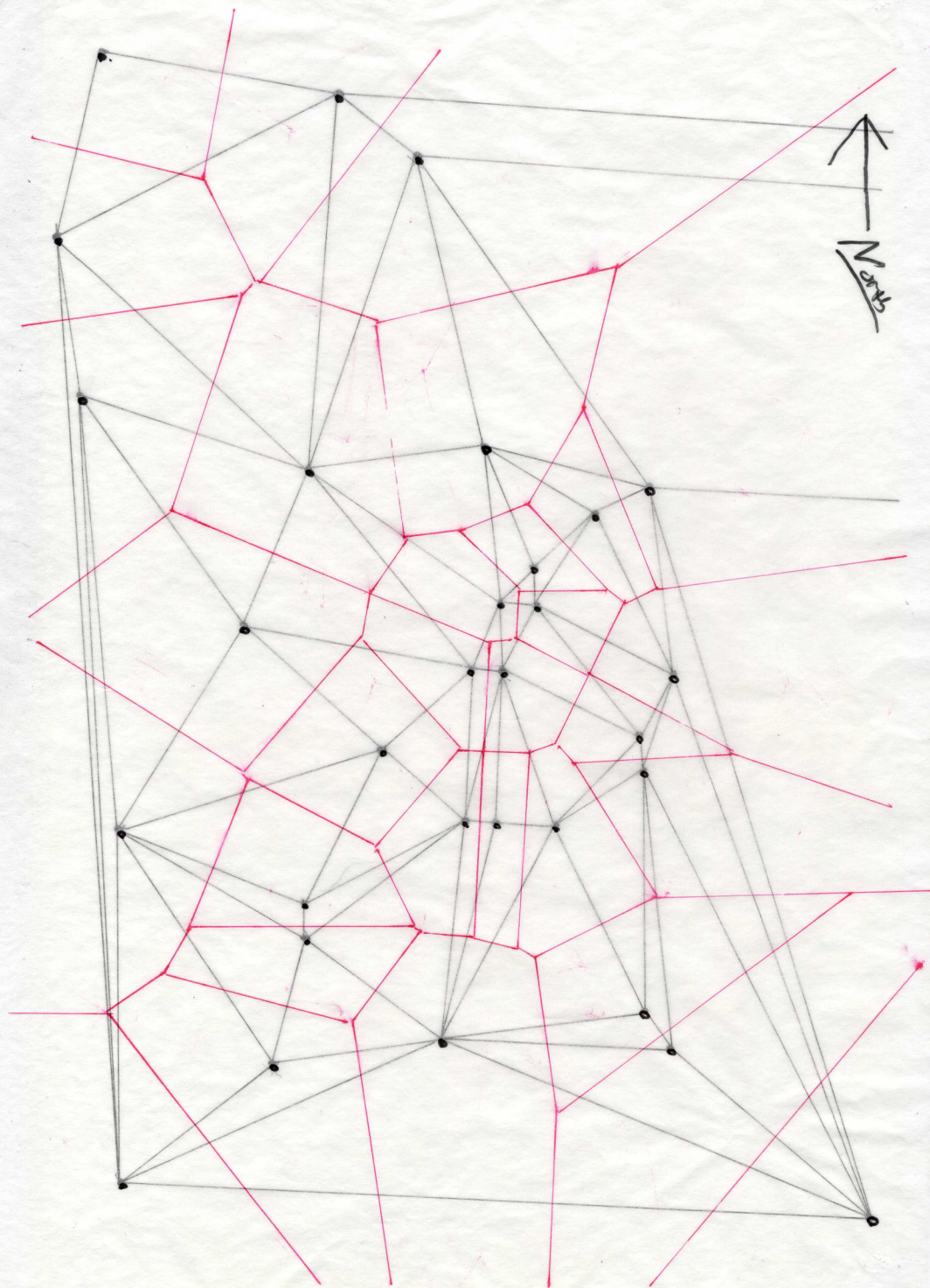






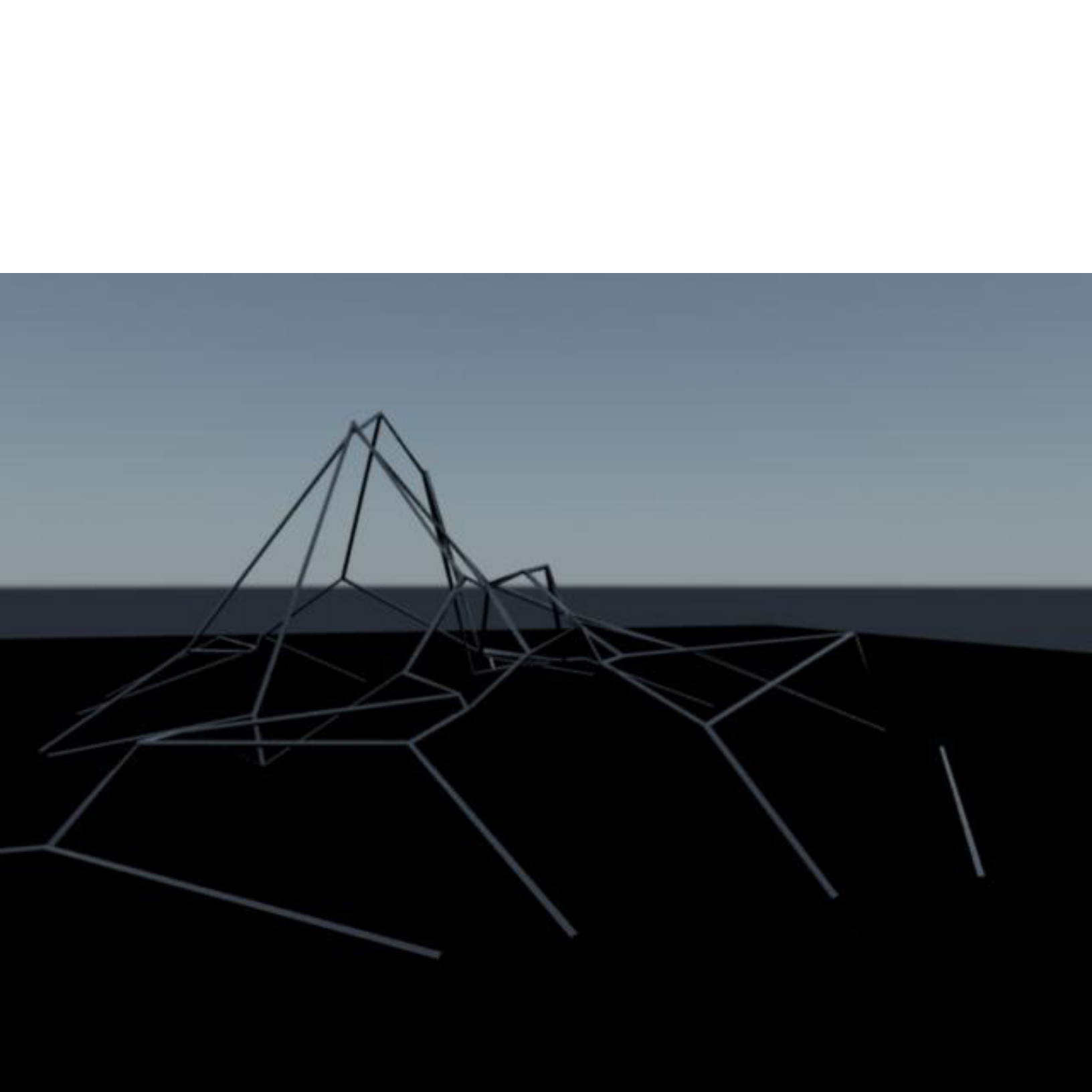


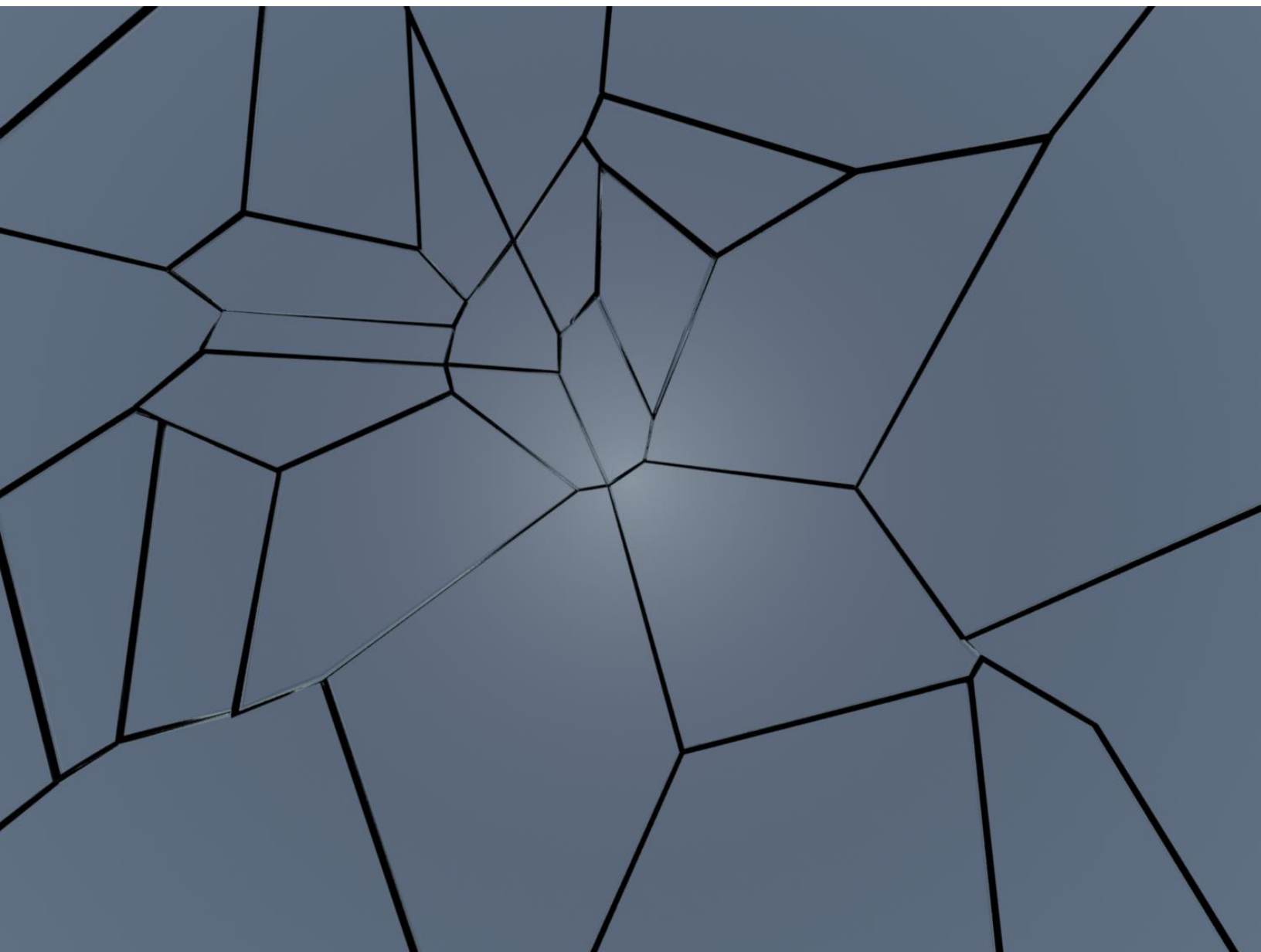


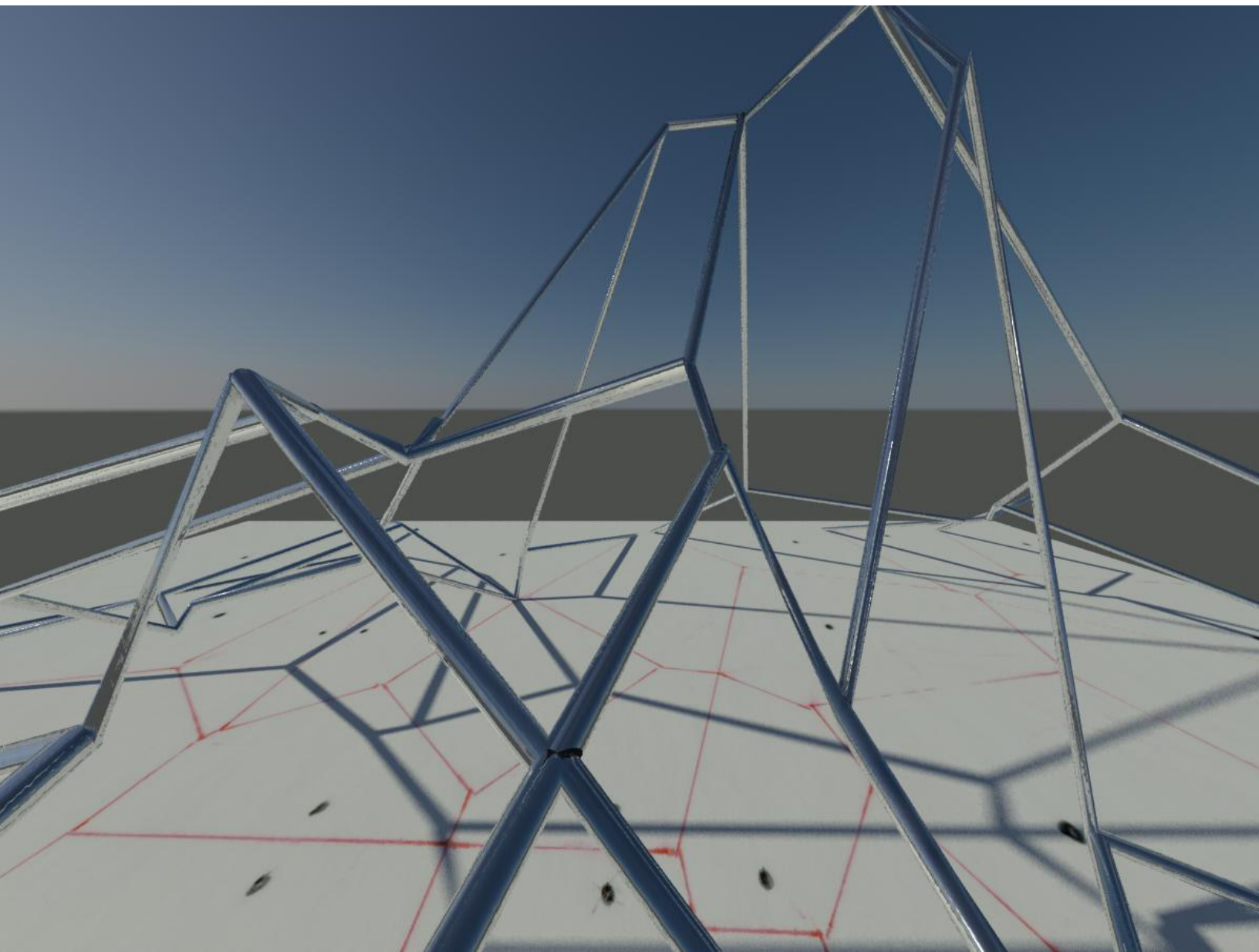




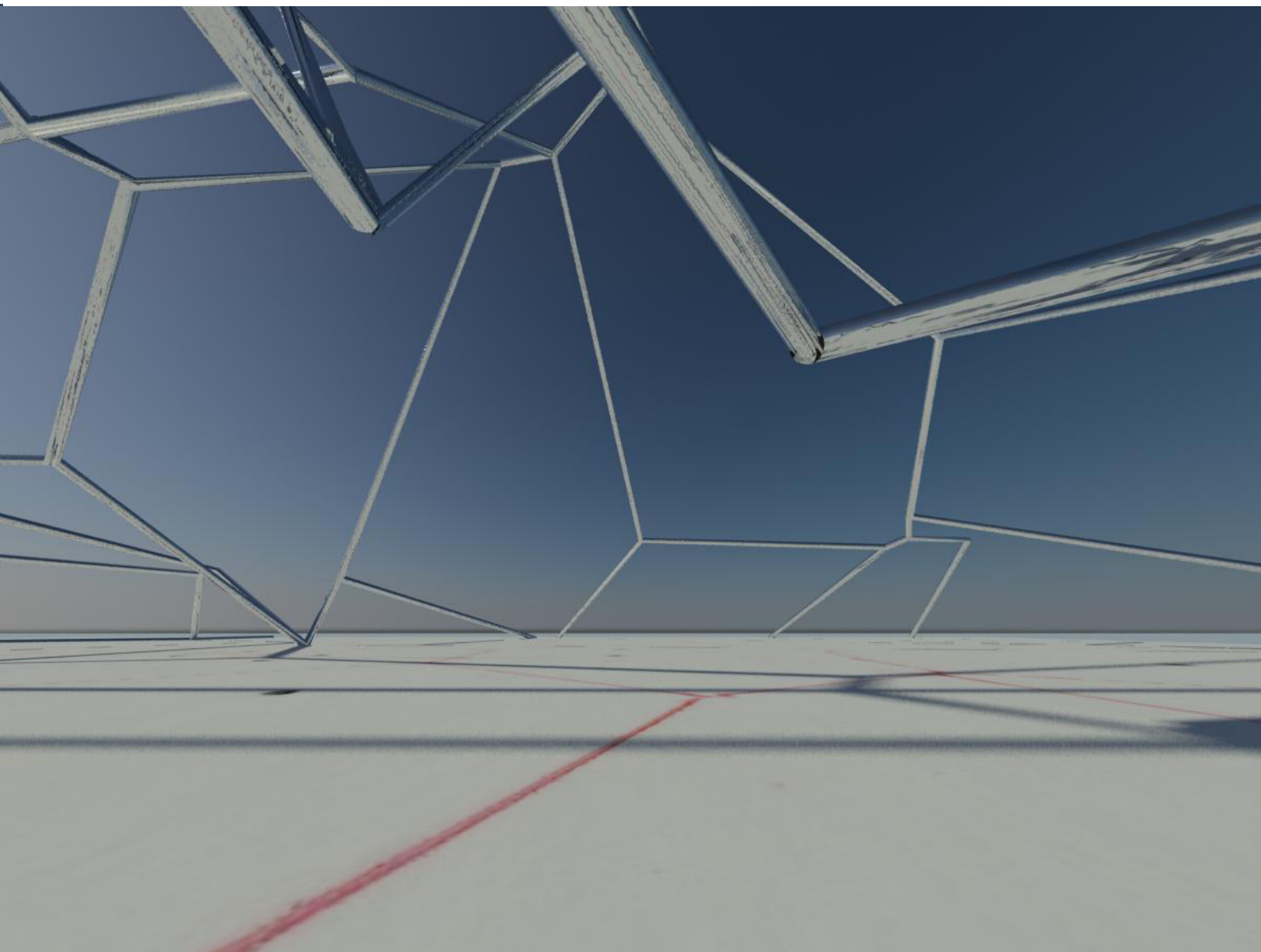




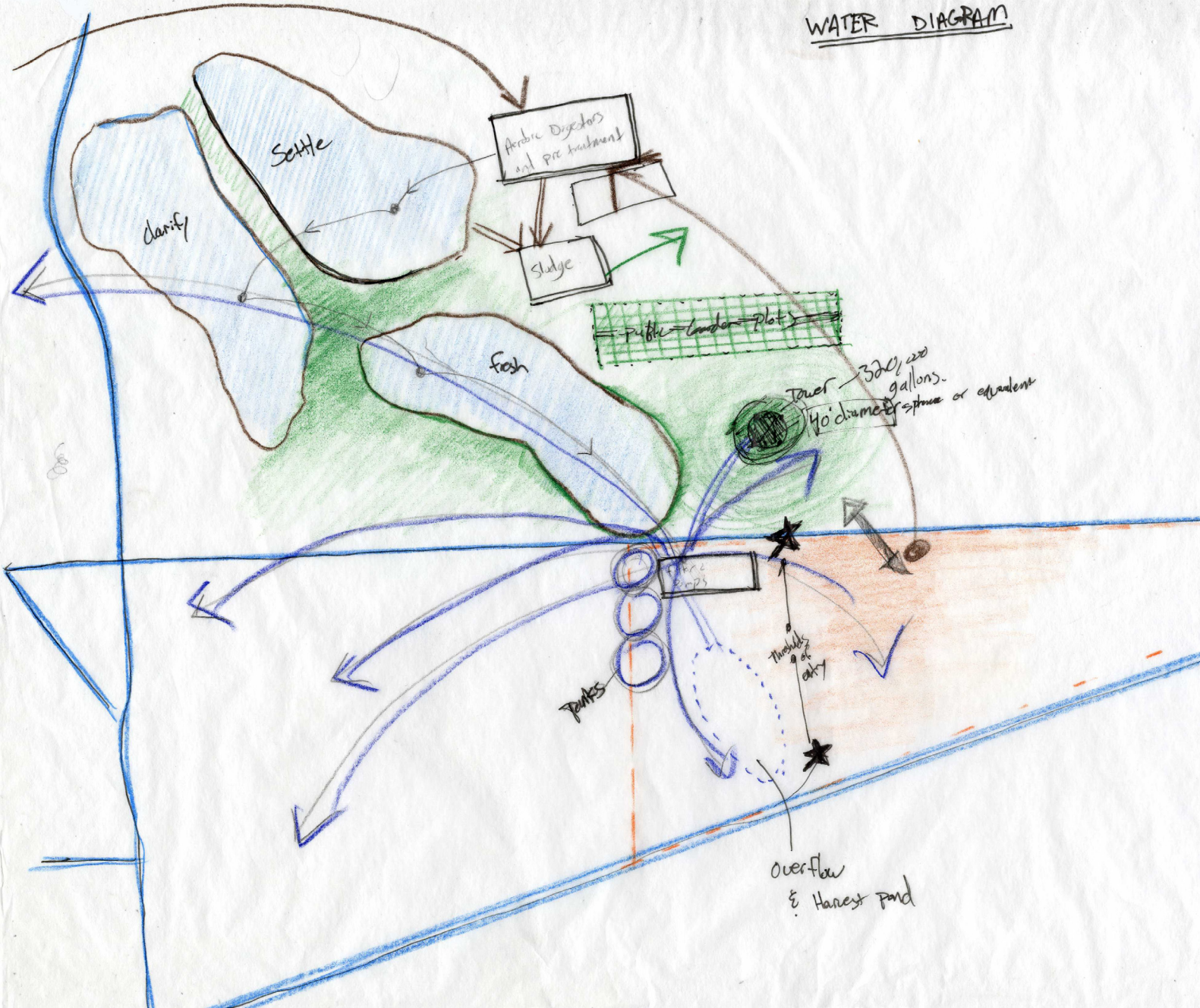








WATER DIAGRAM

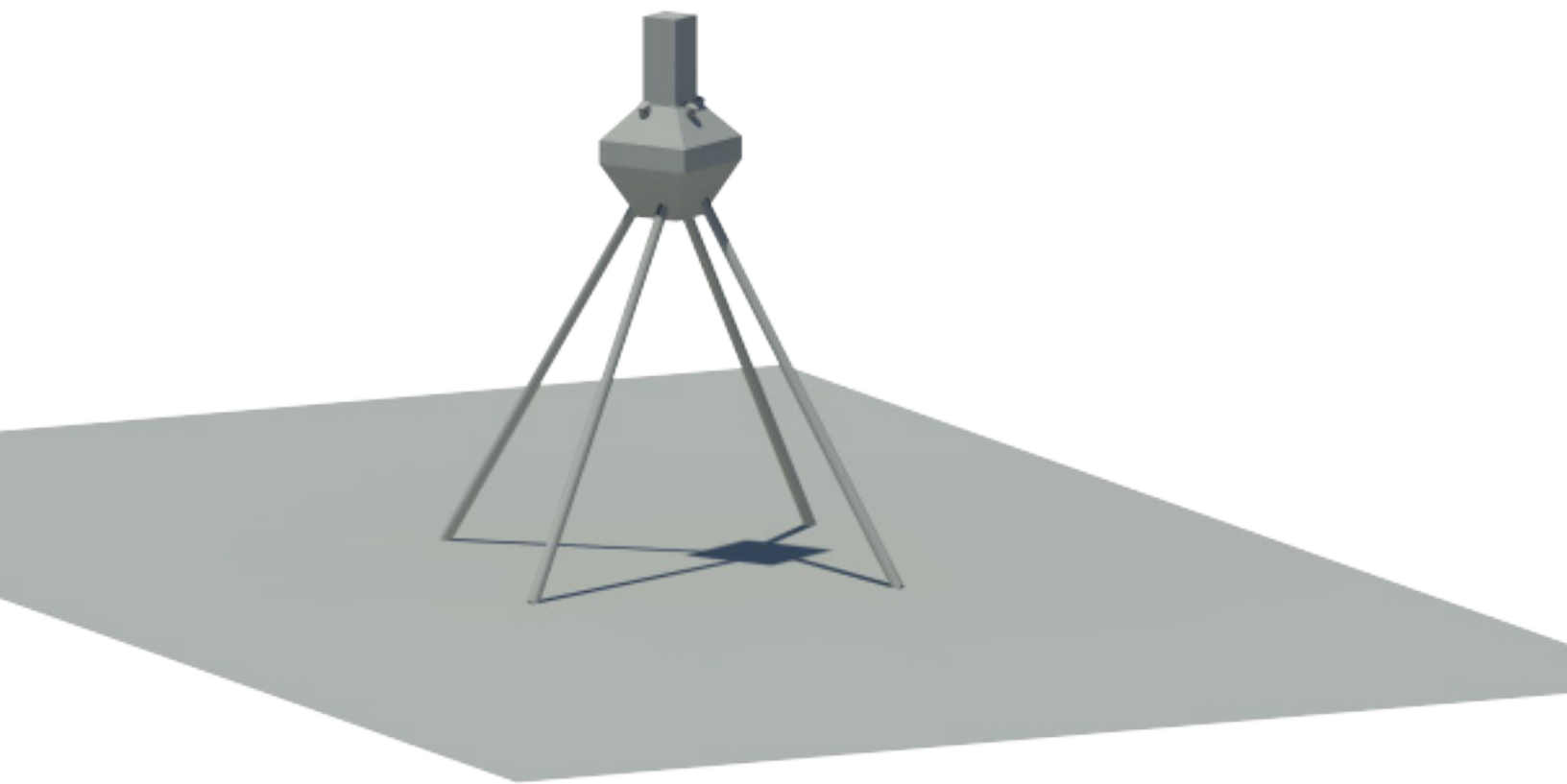


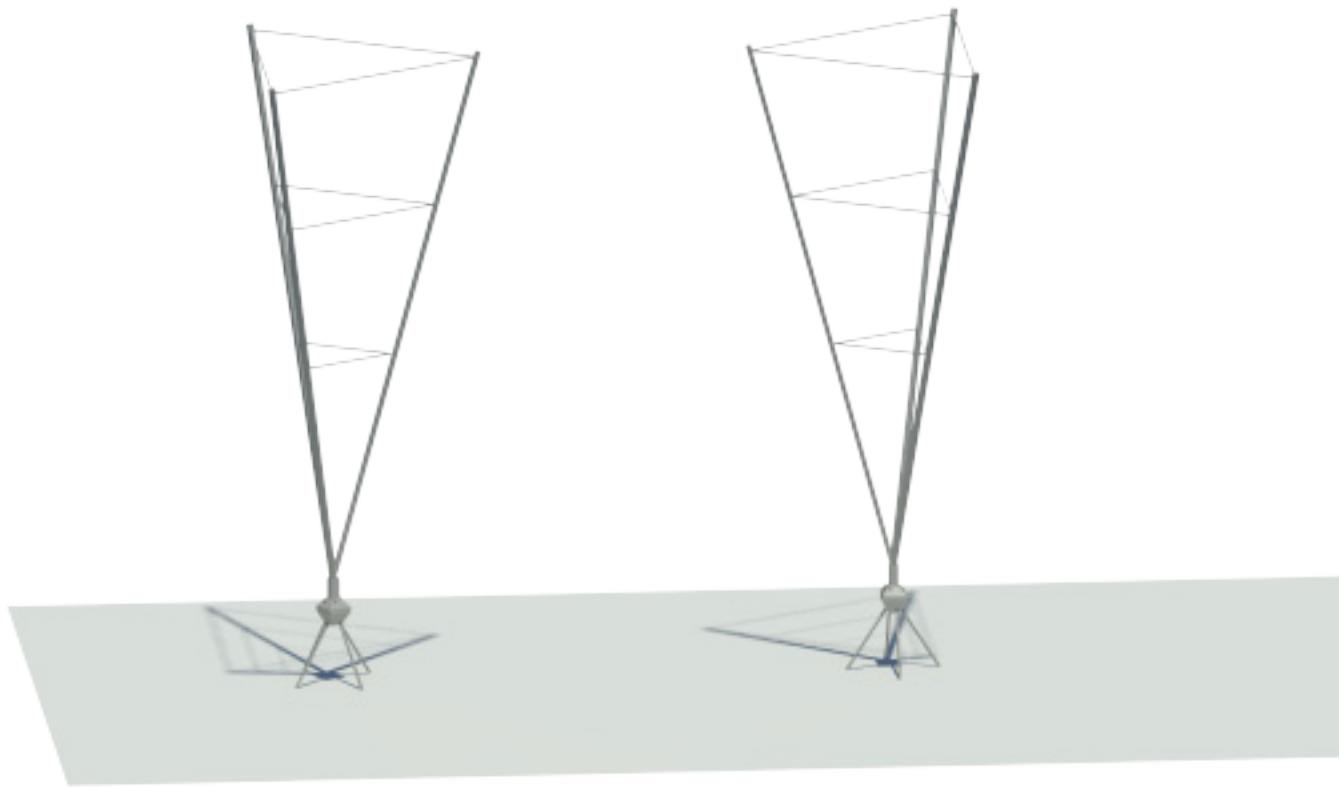


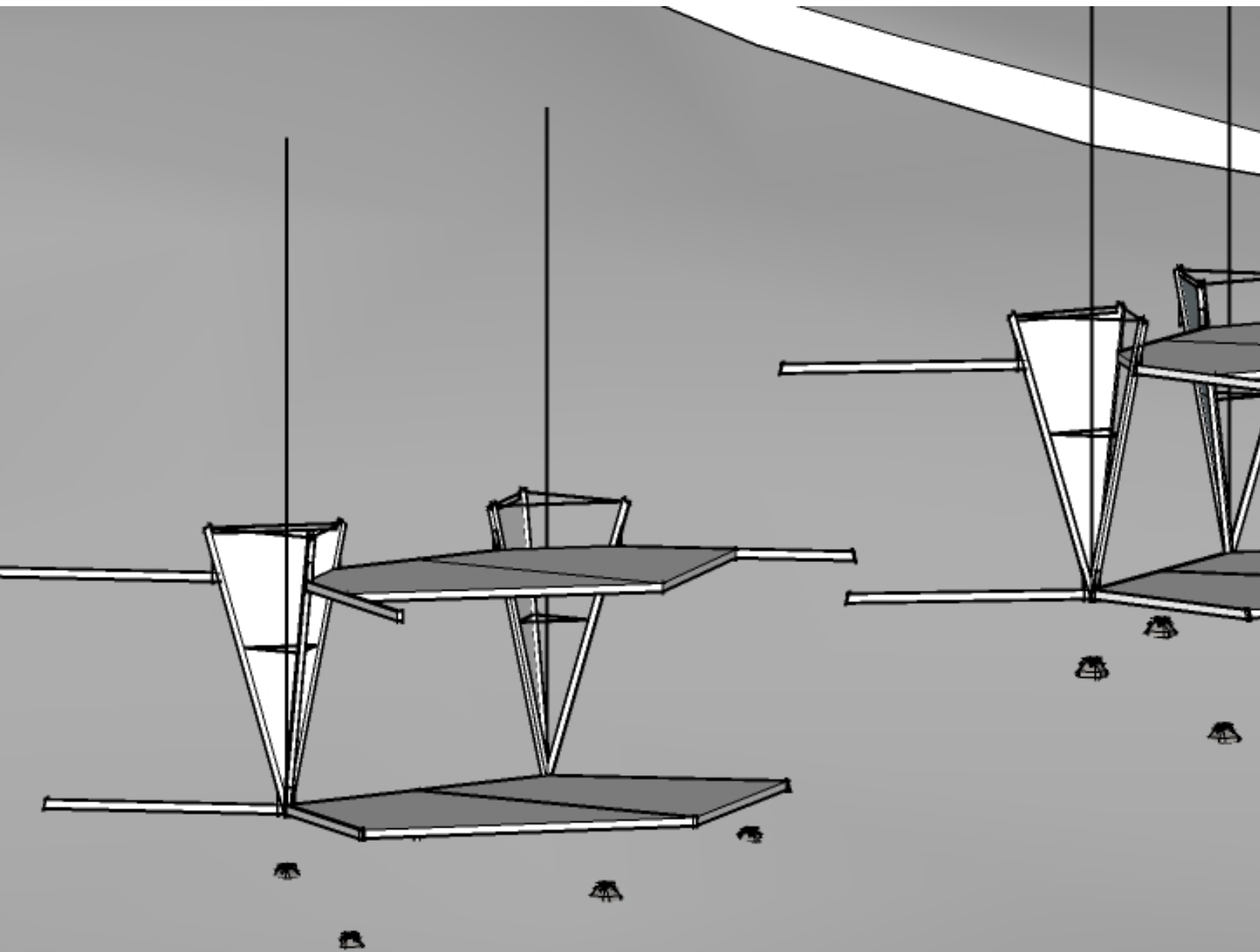


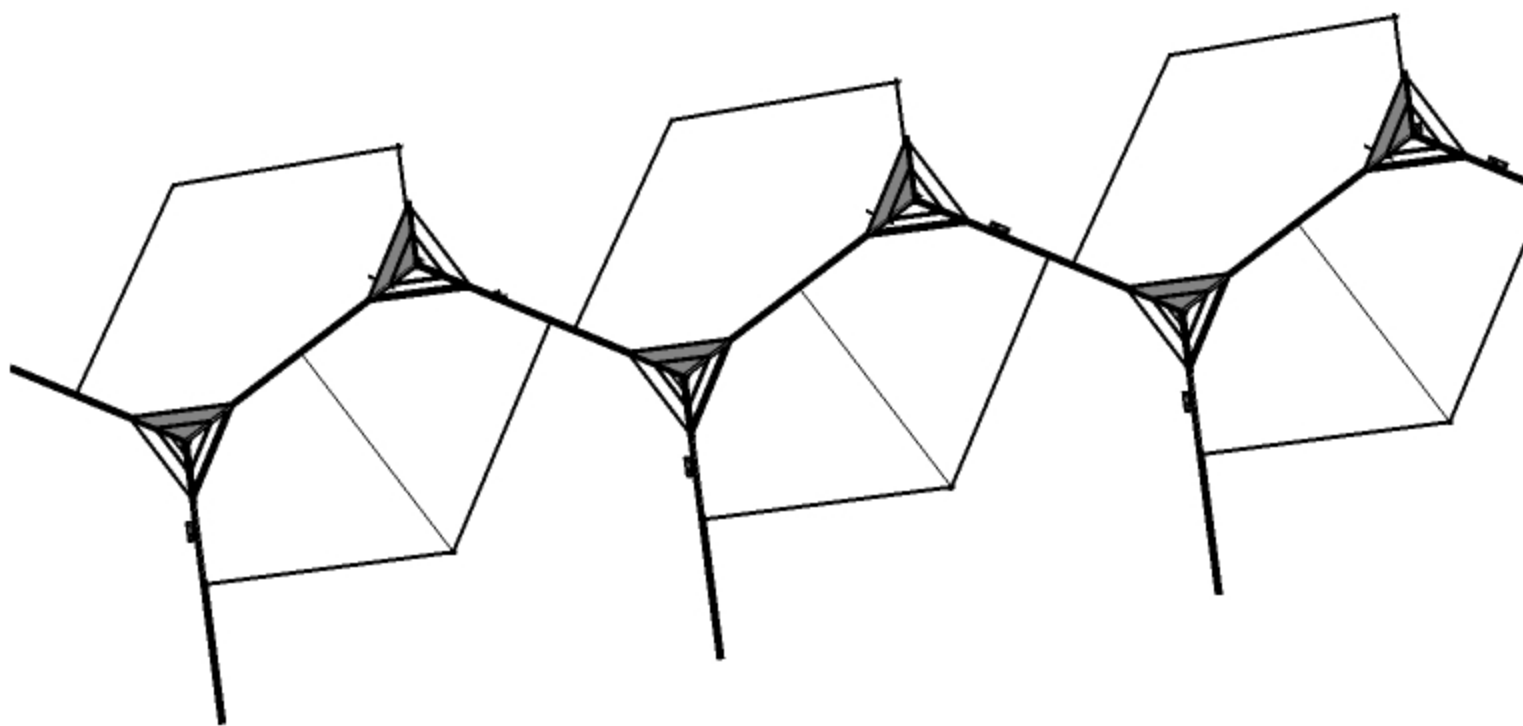


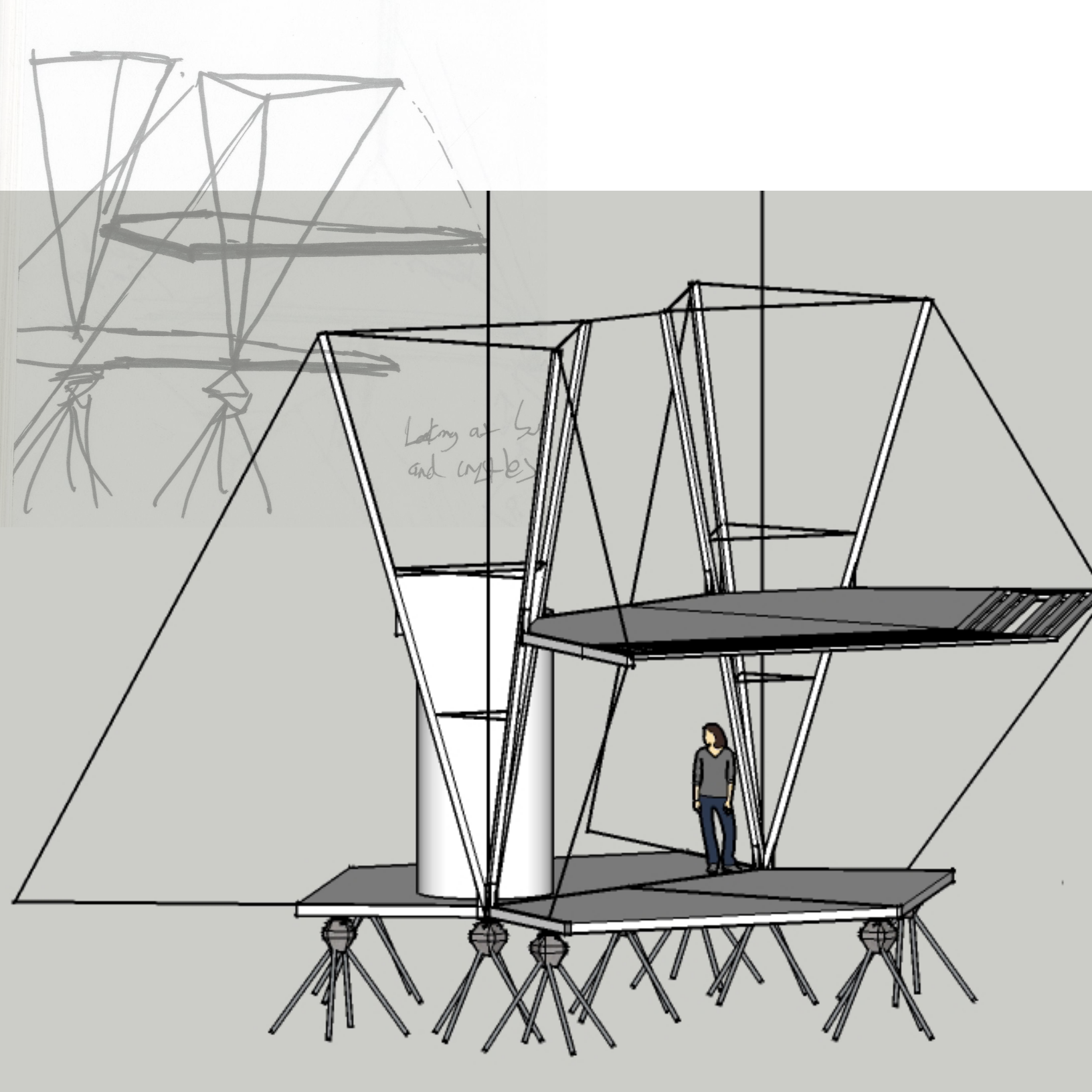




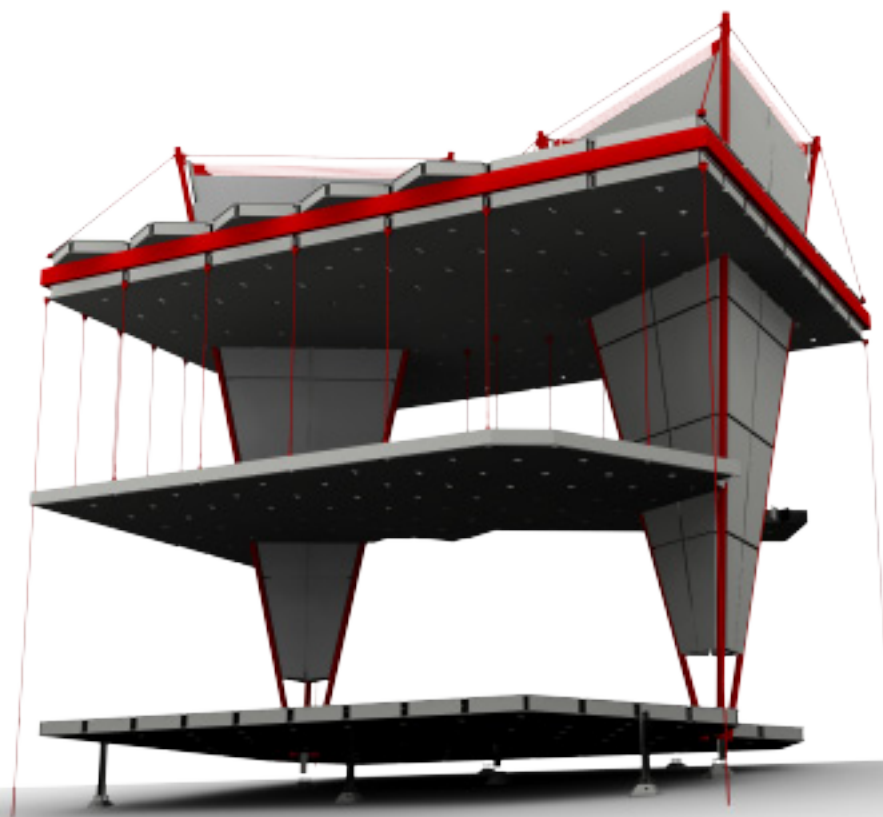


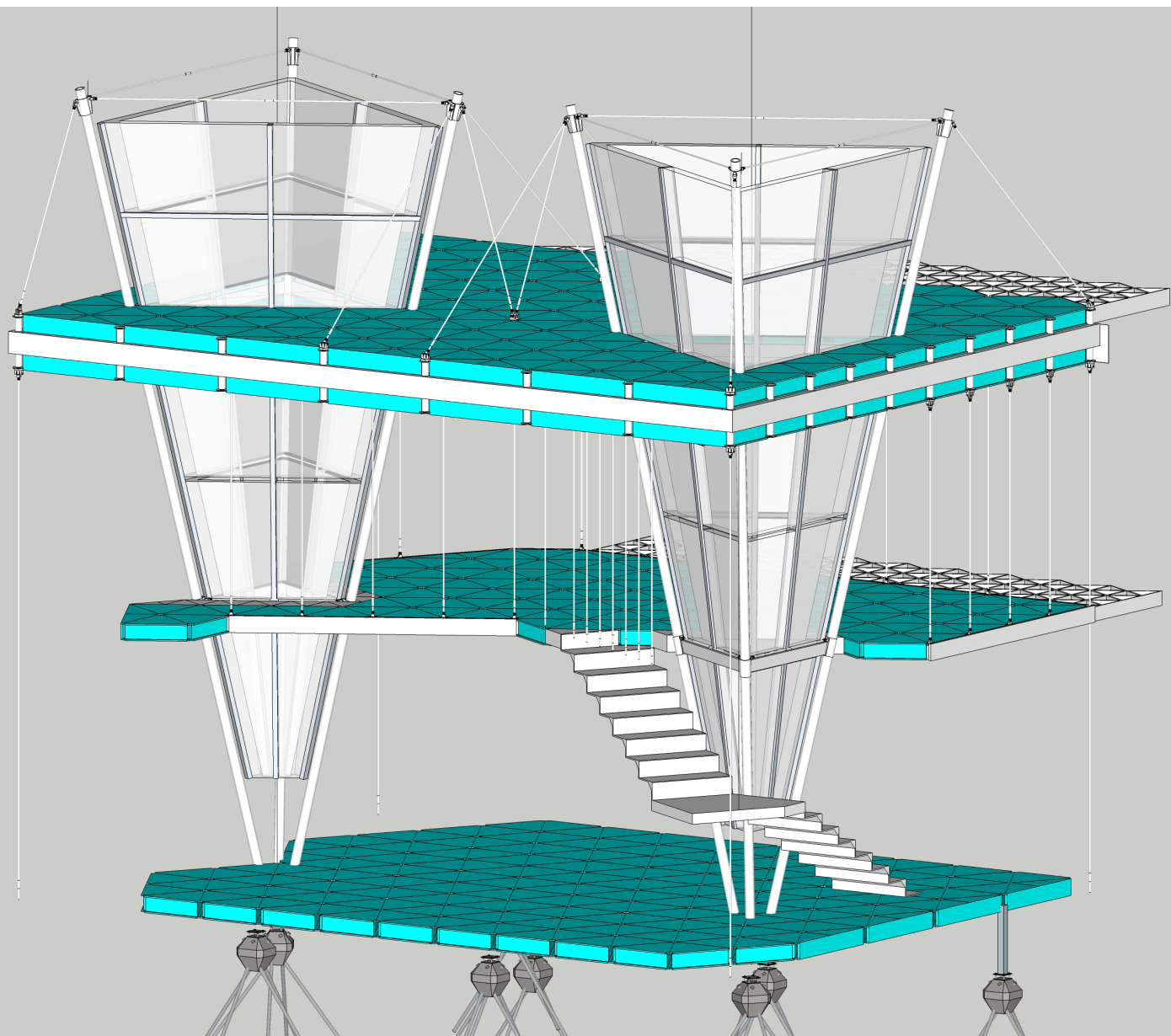


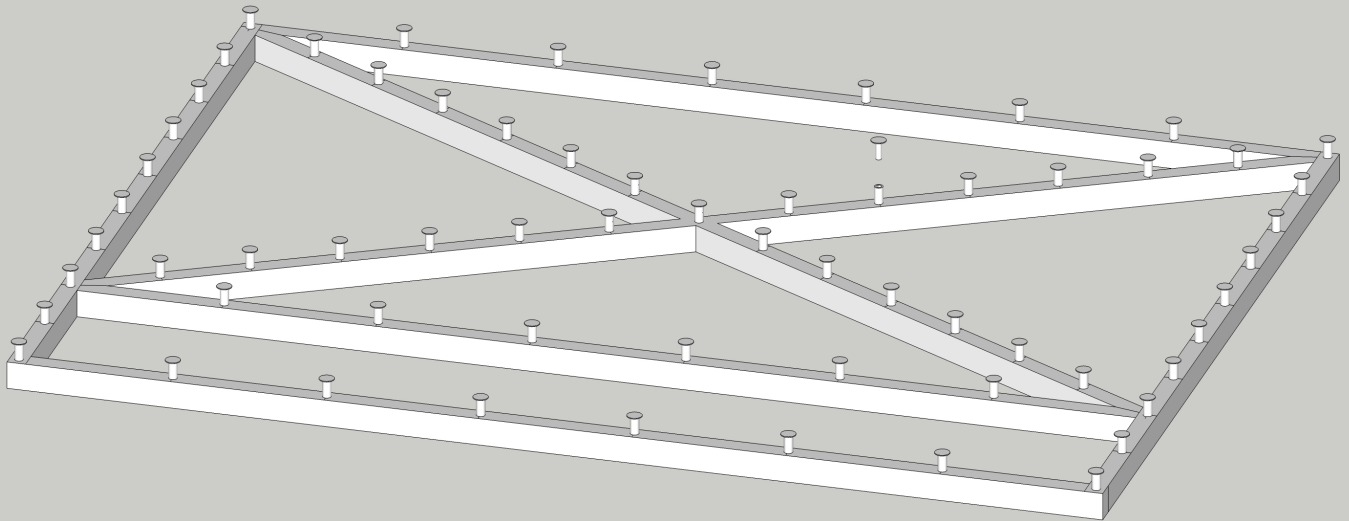
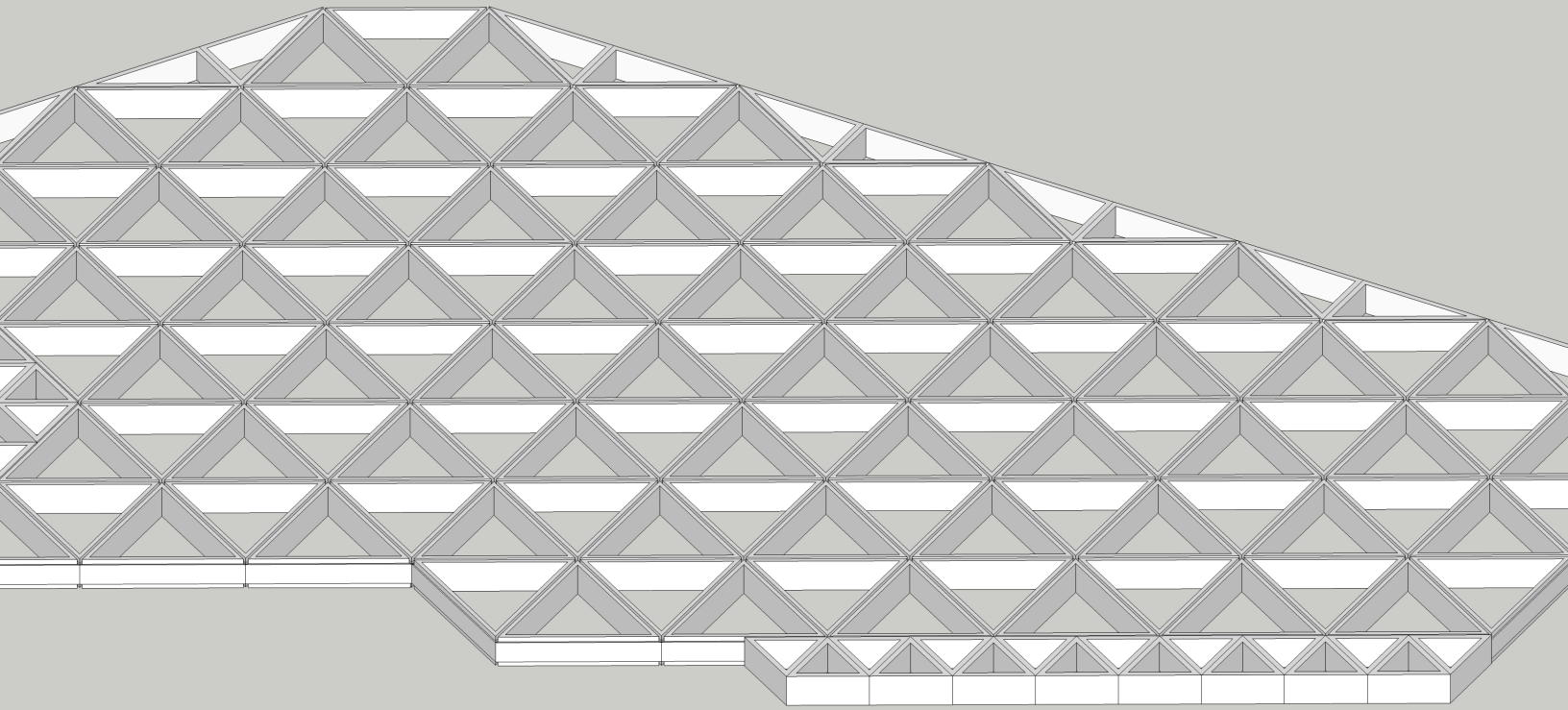




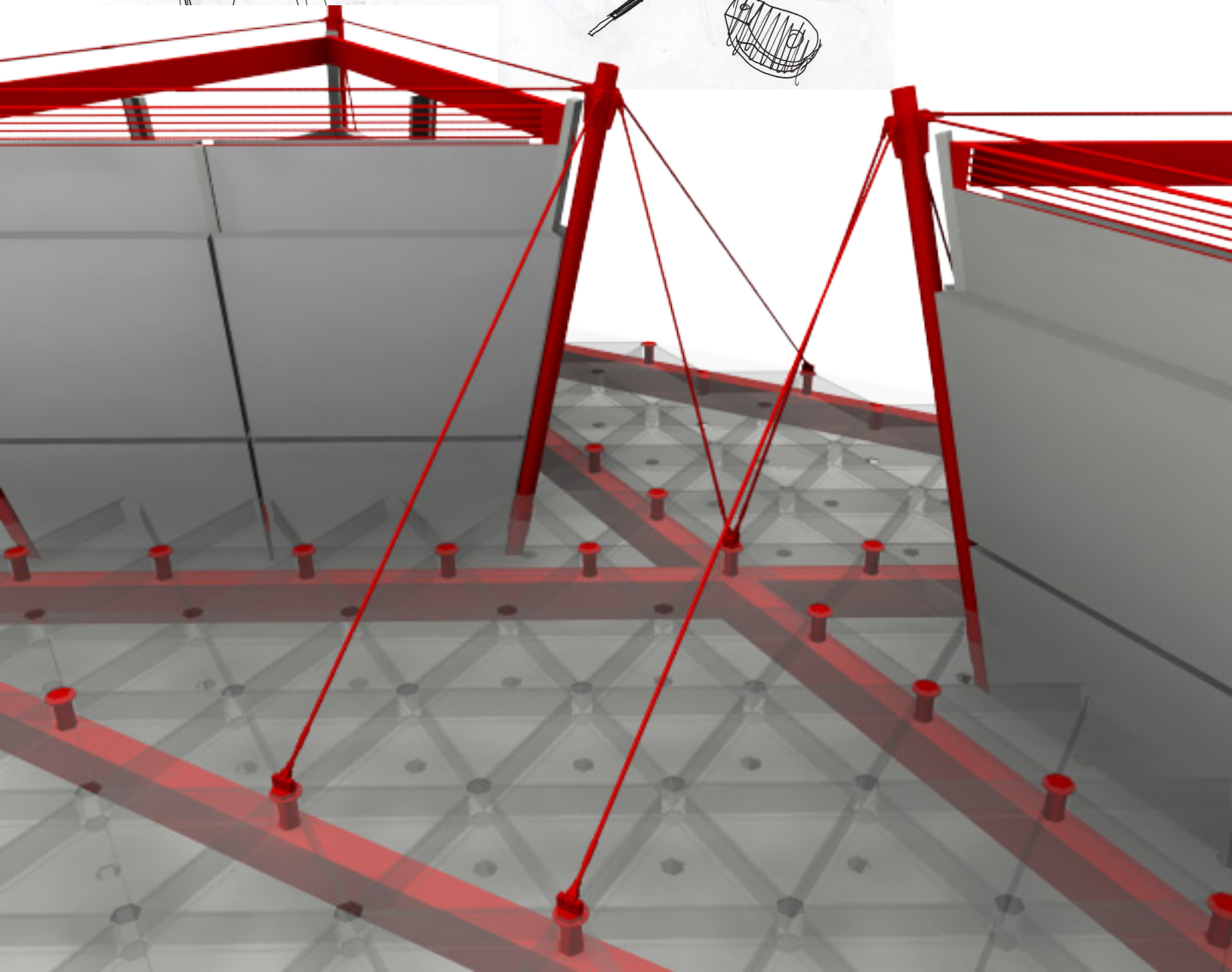
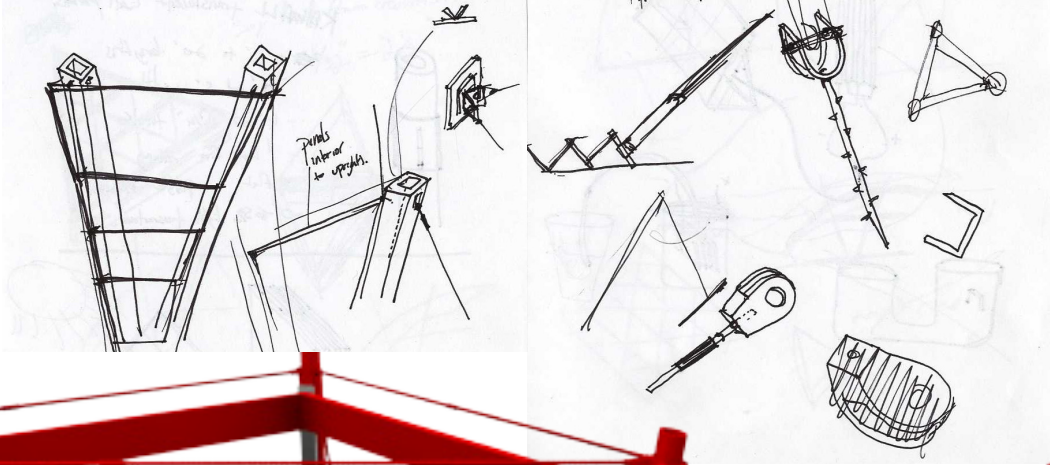
Looking at the  
and complex

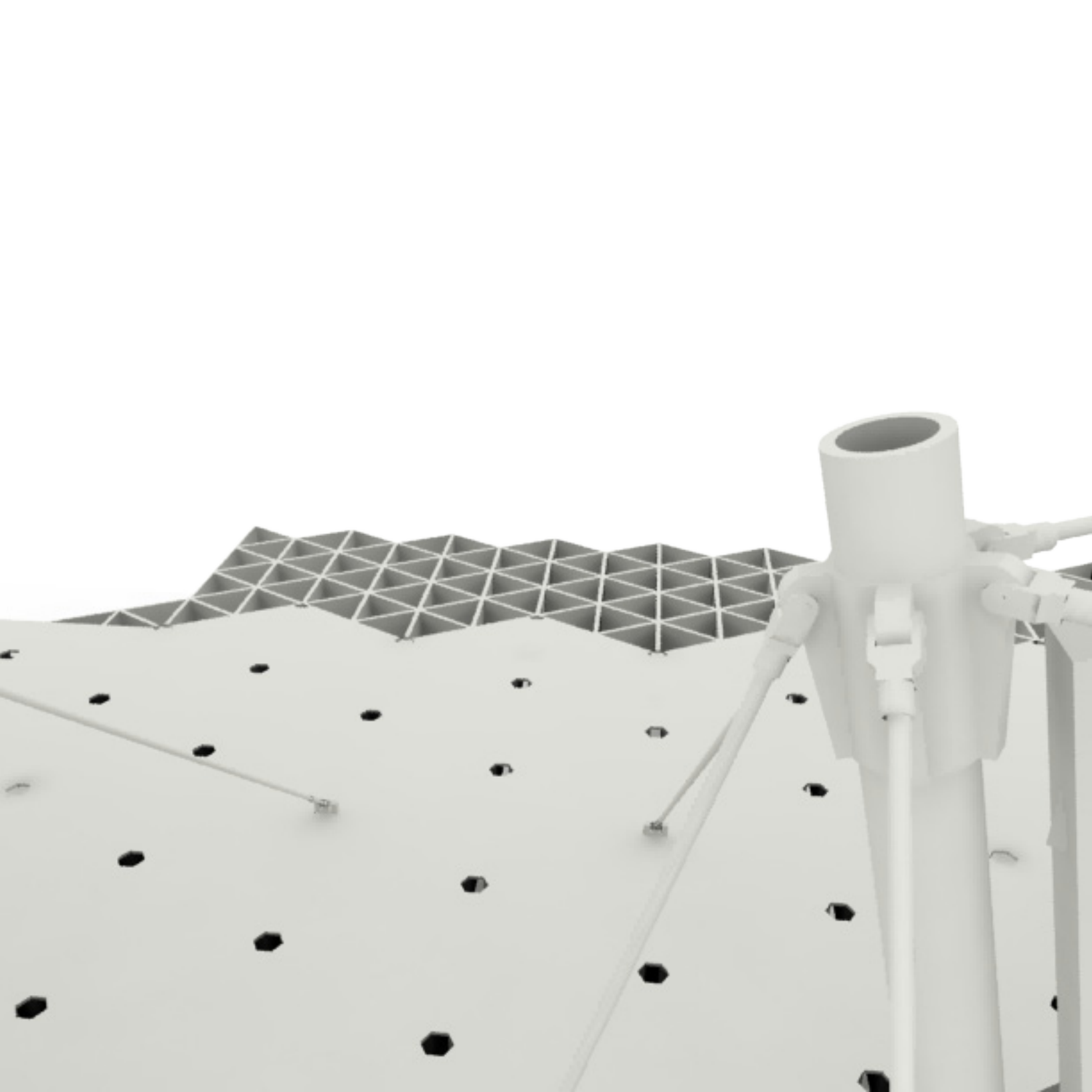


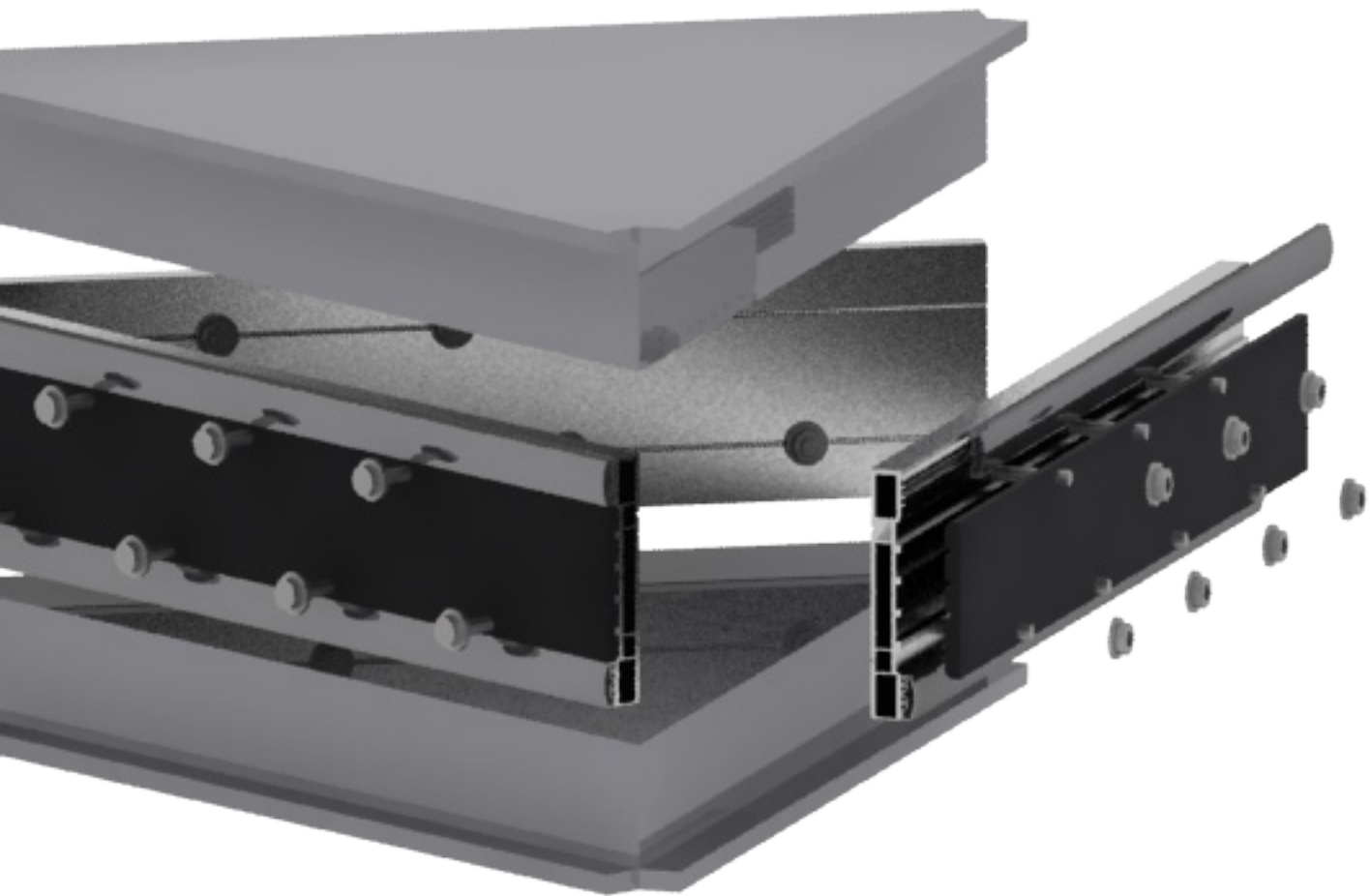


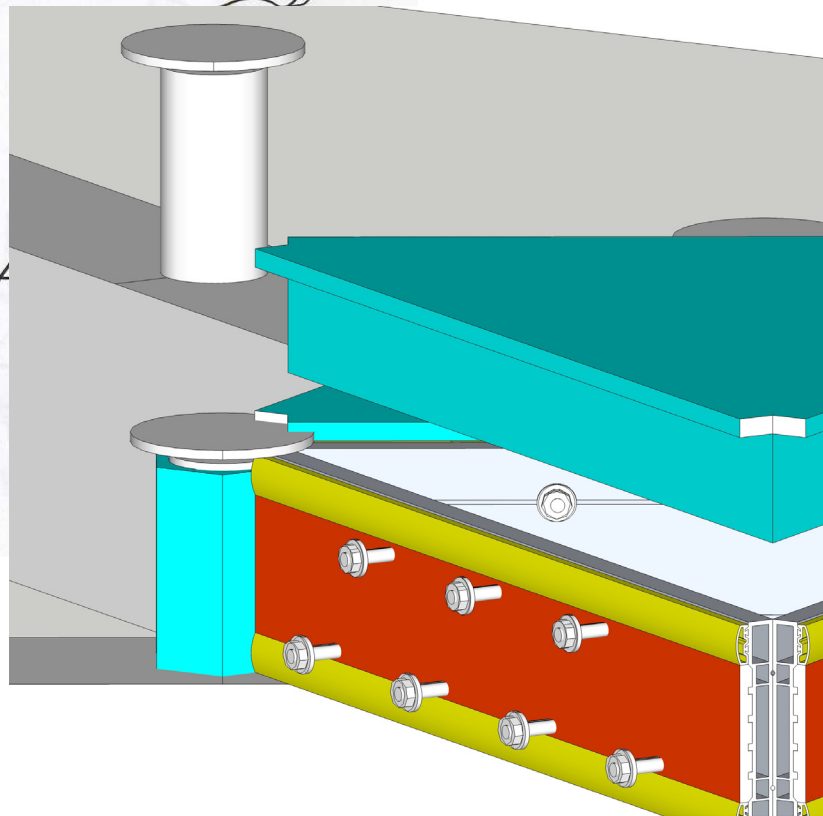
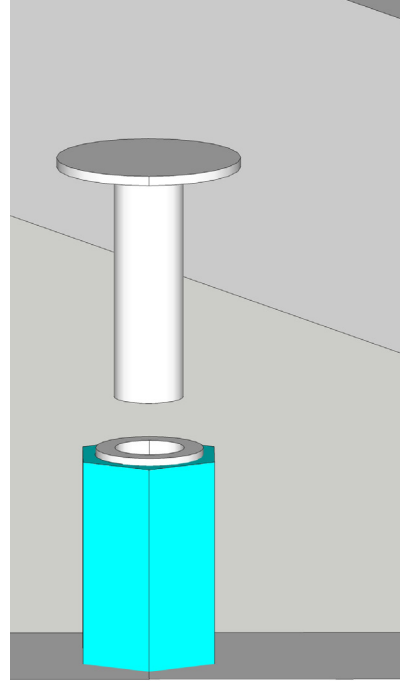
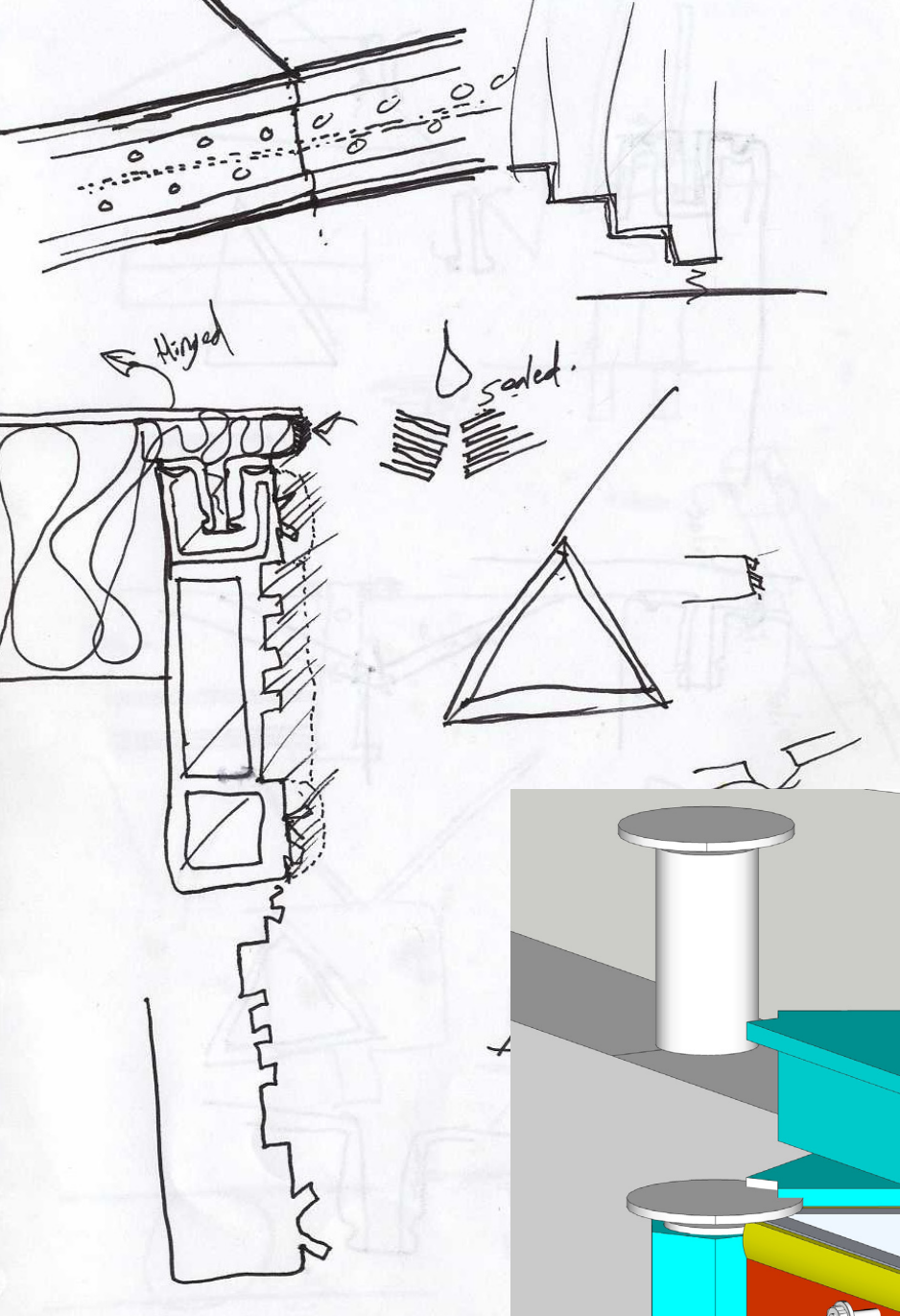


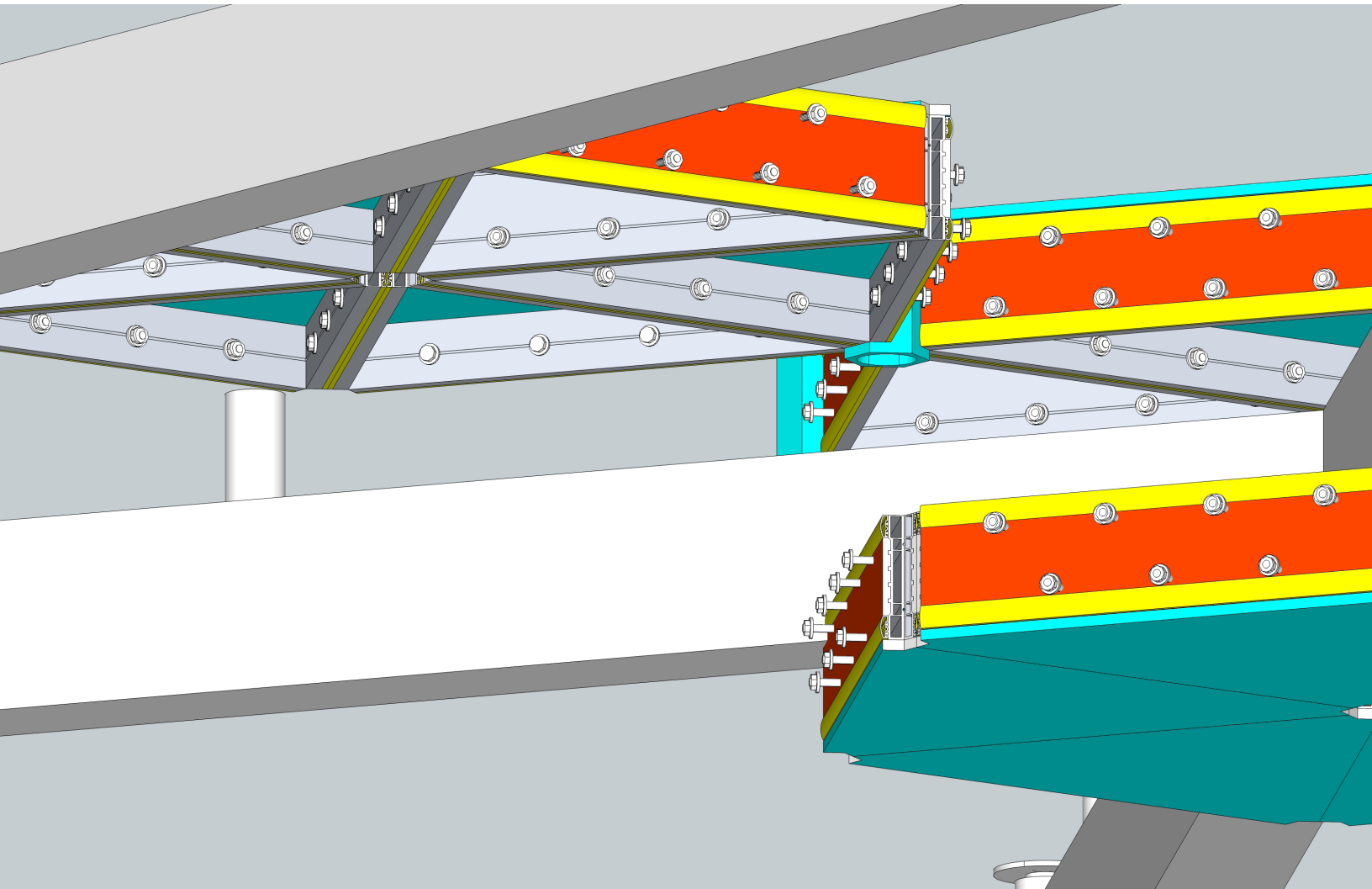


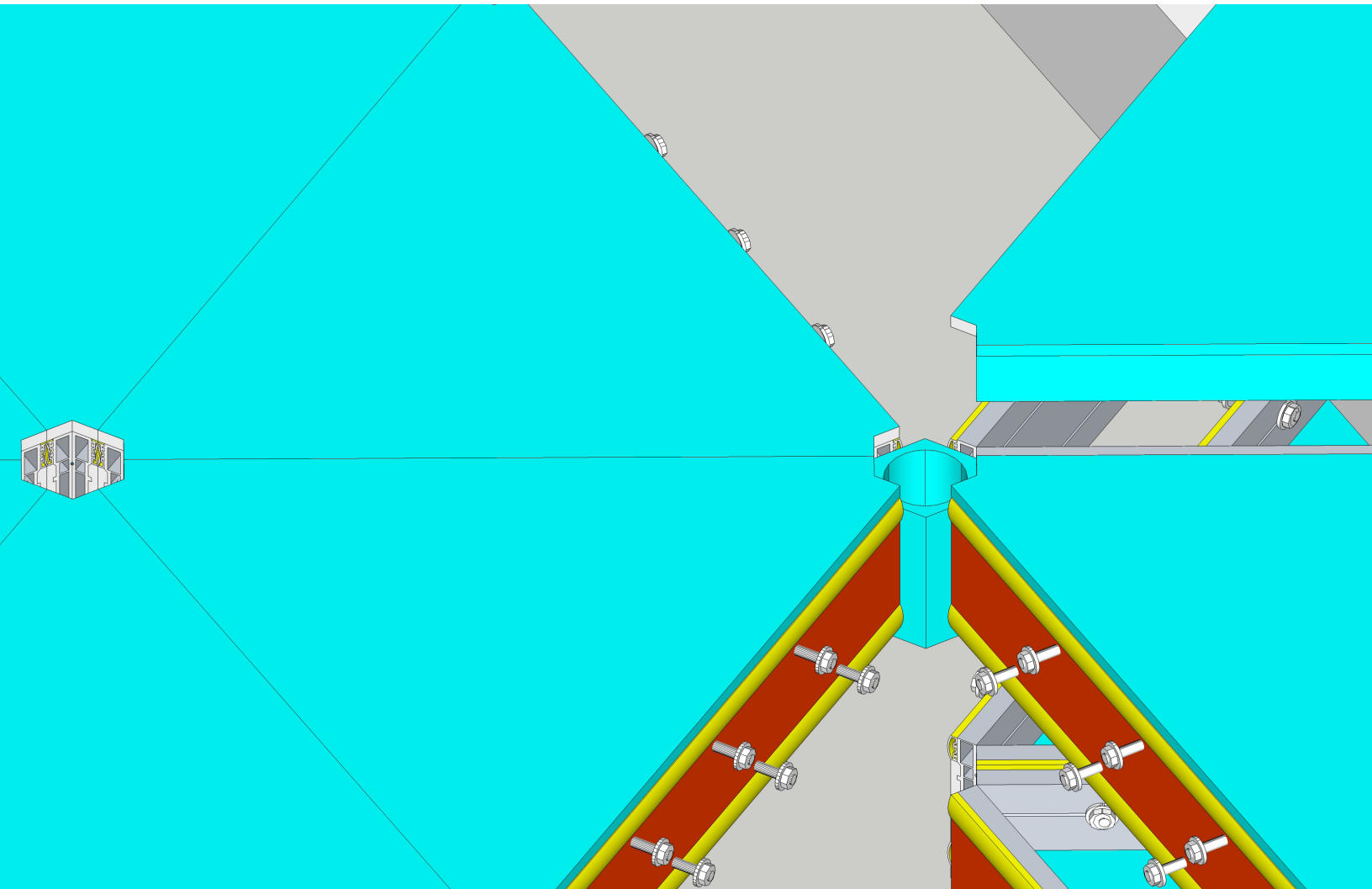




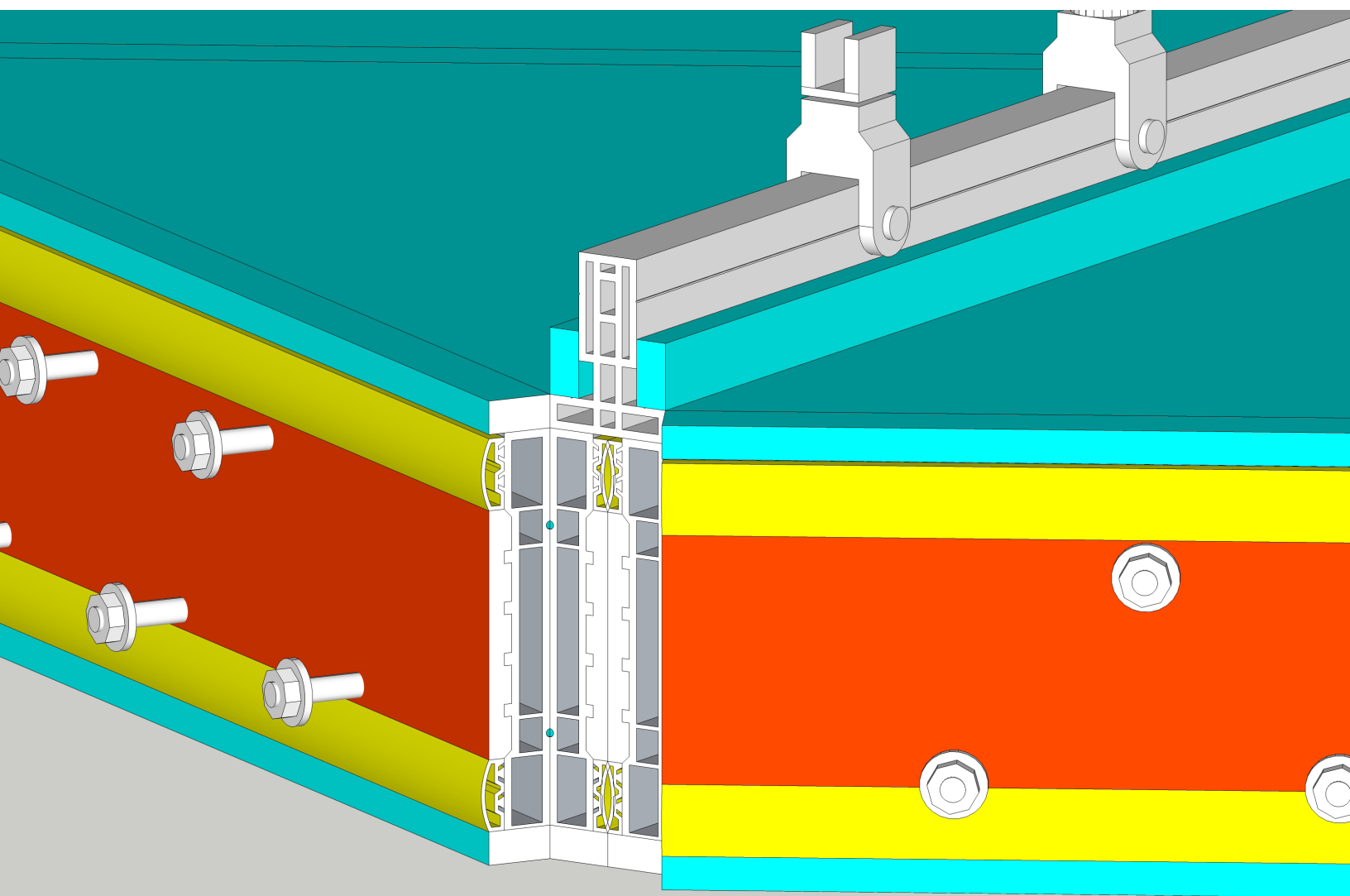


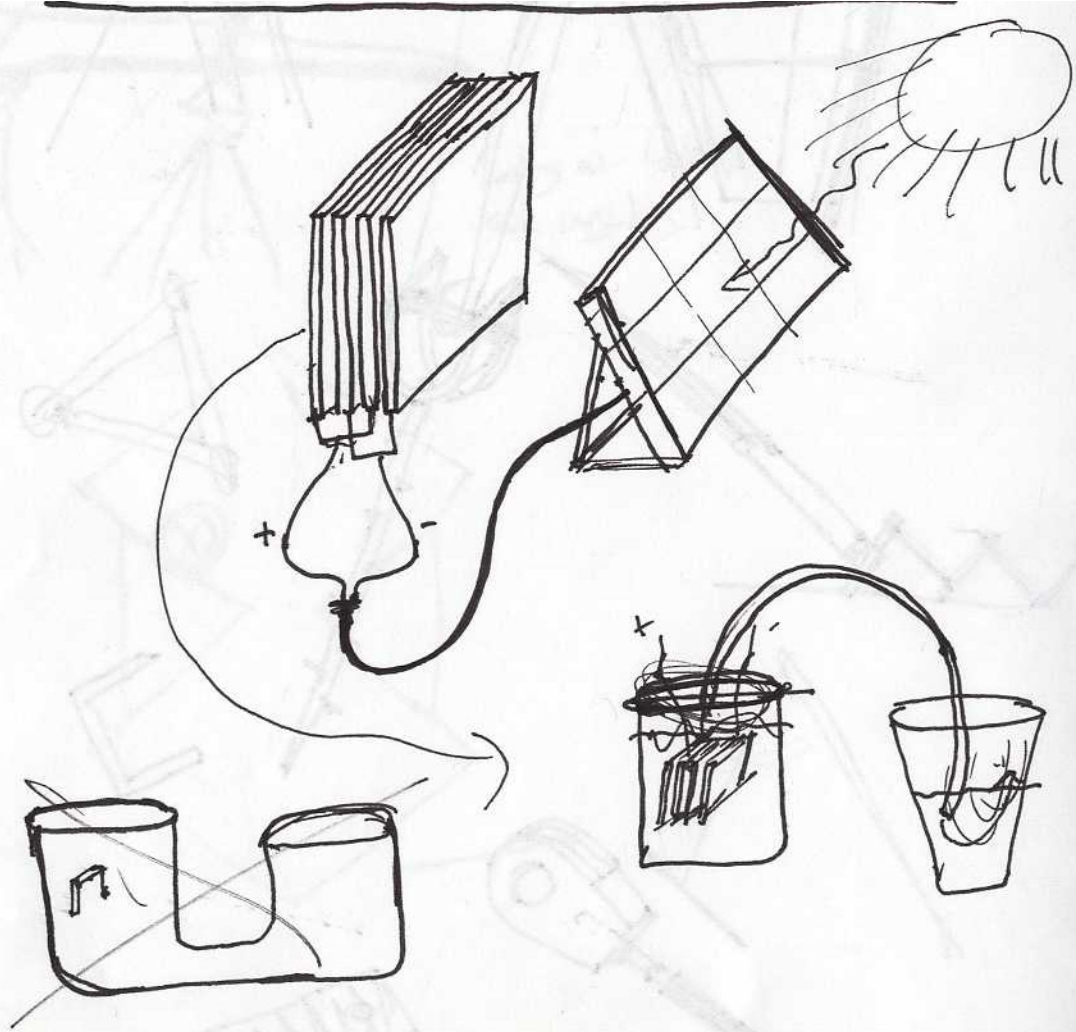








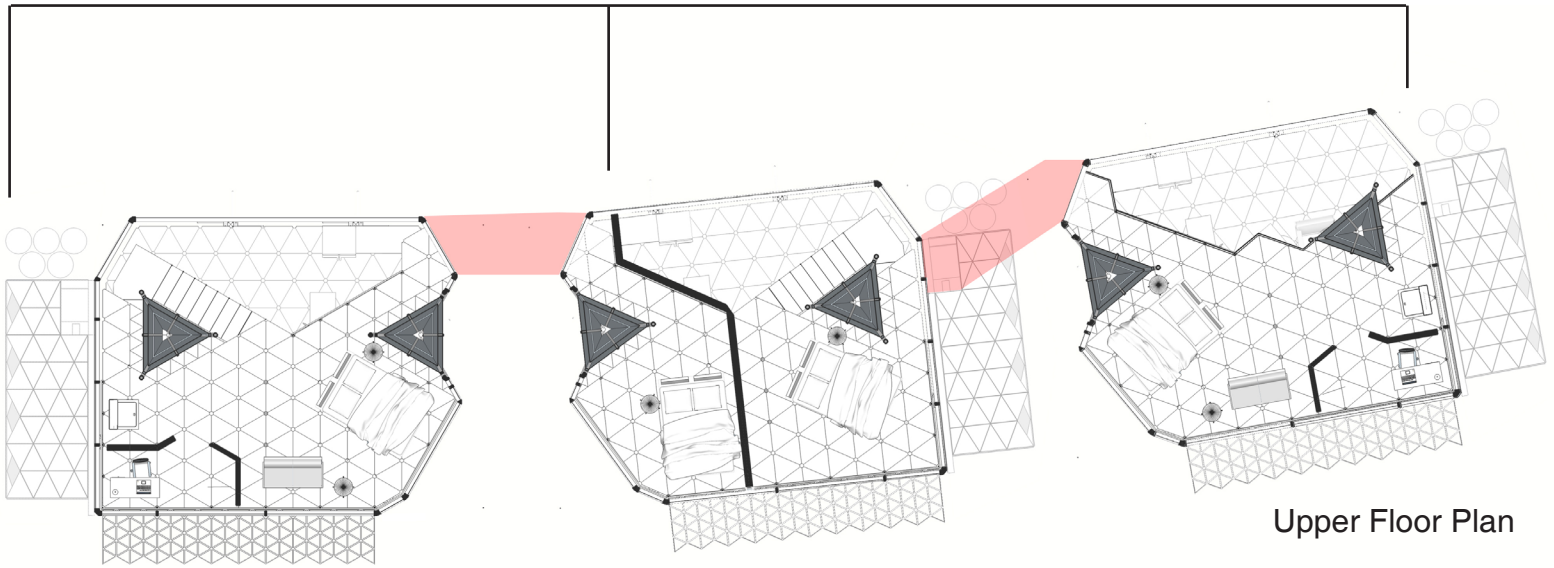




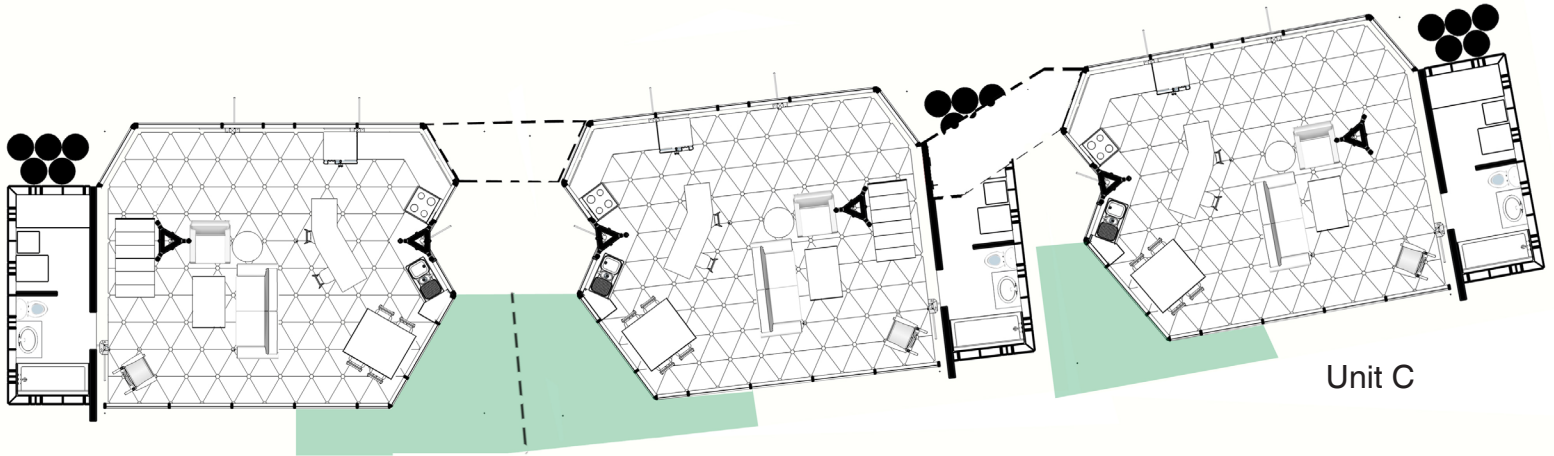


Unit A

Unit B



Upper Floor Plan



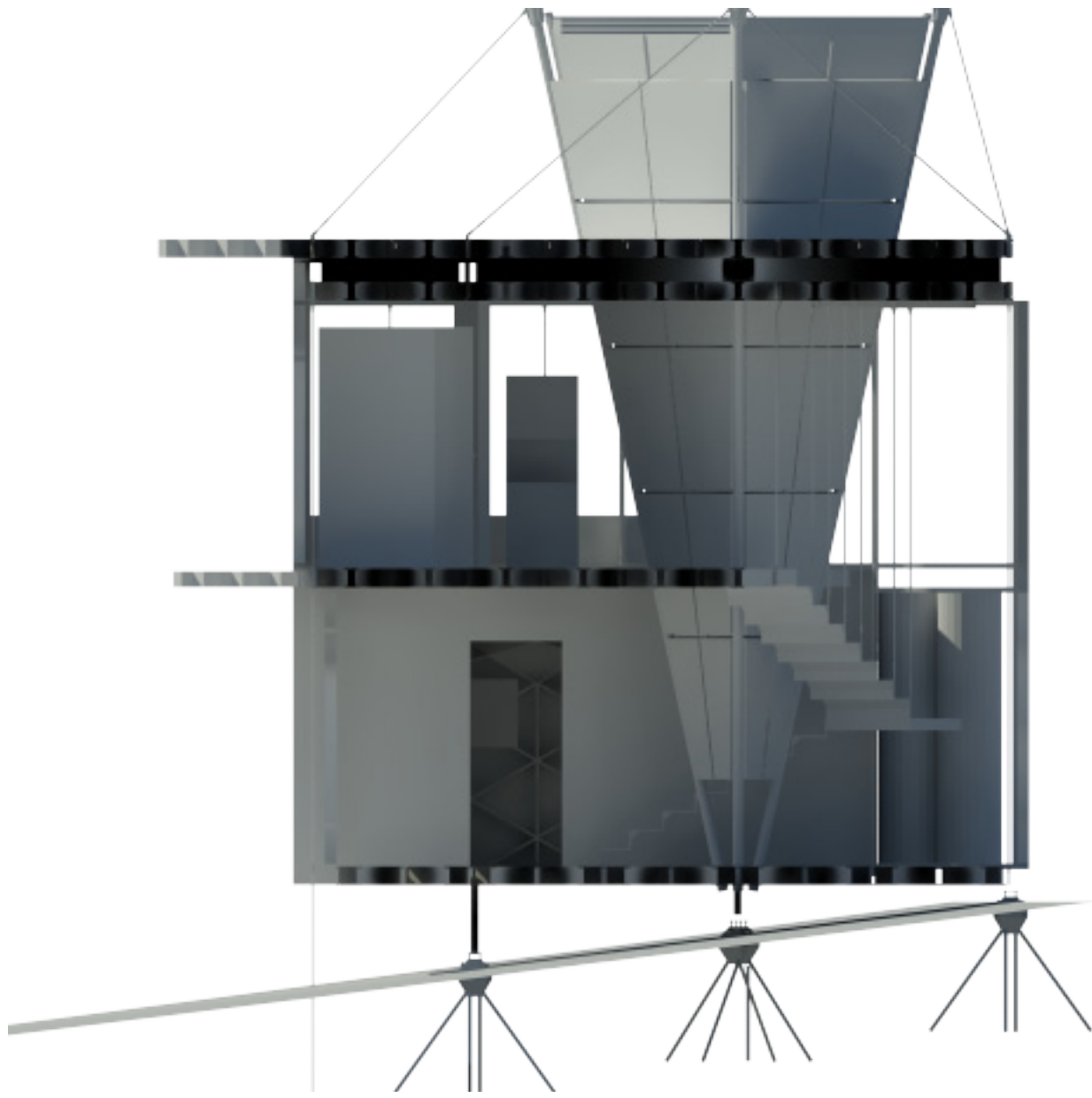
Unit C

Unit A: 2 Bedroom - 670 SF

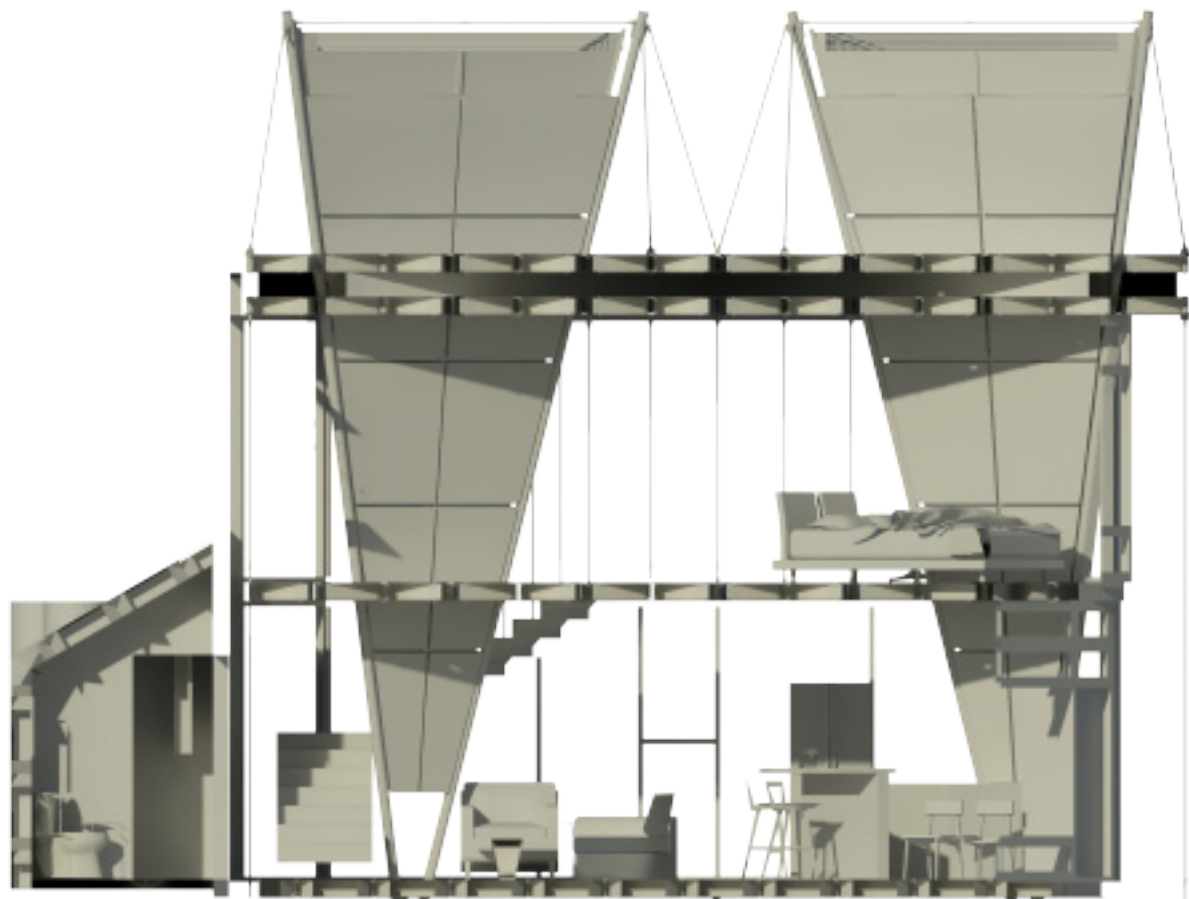
Unit B: 2 Bedroom - 700 SF

Unit C: Studio/Efficiency - 500 SF

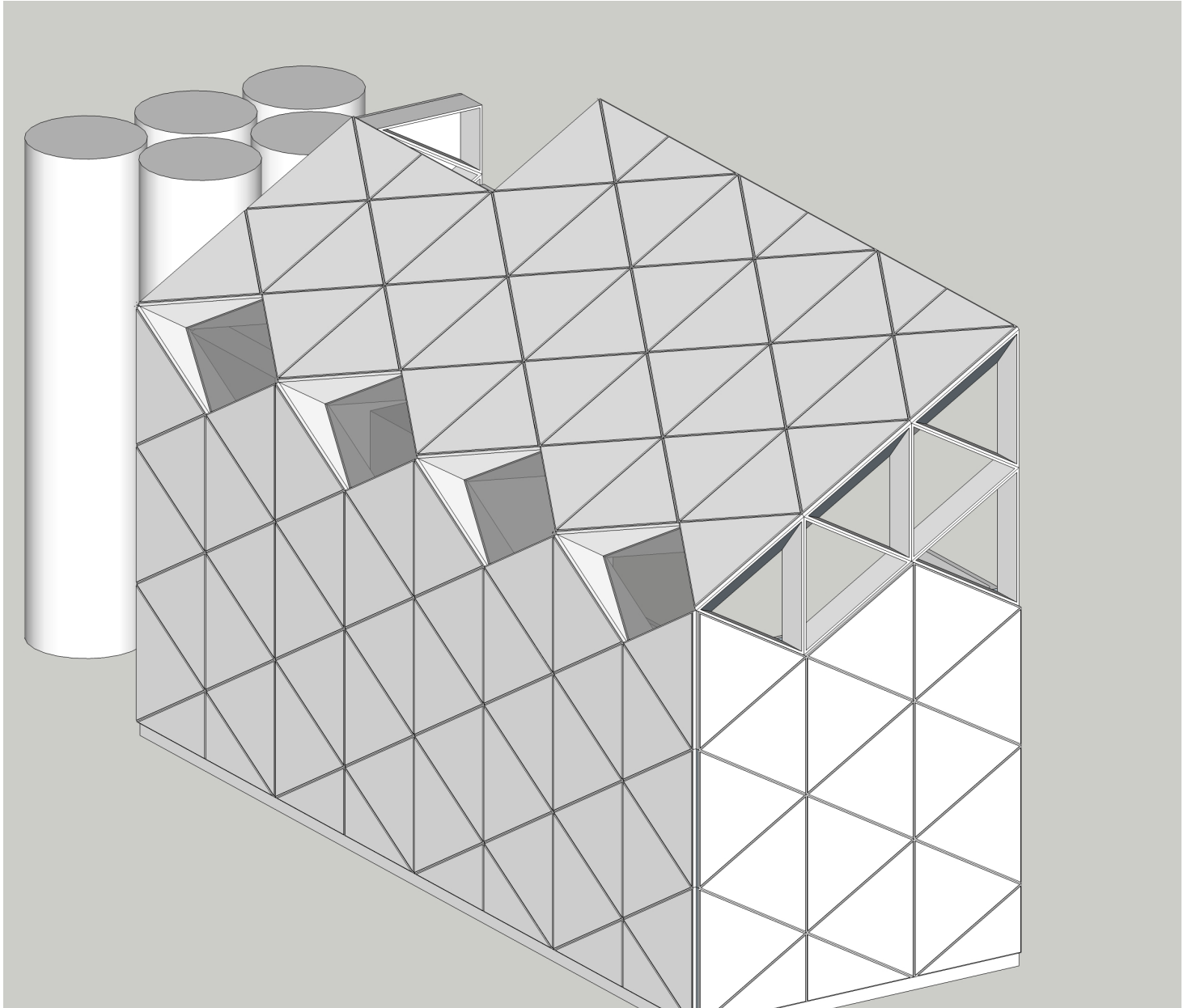
Lower Floor Plan

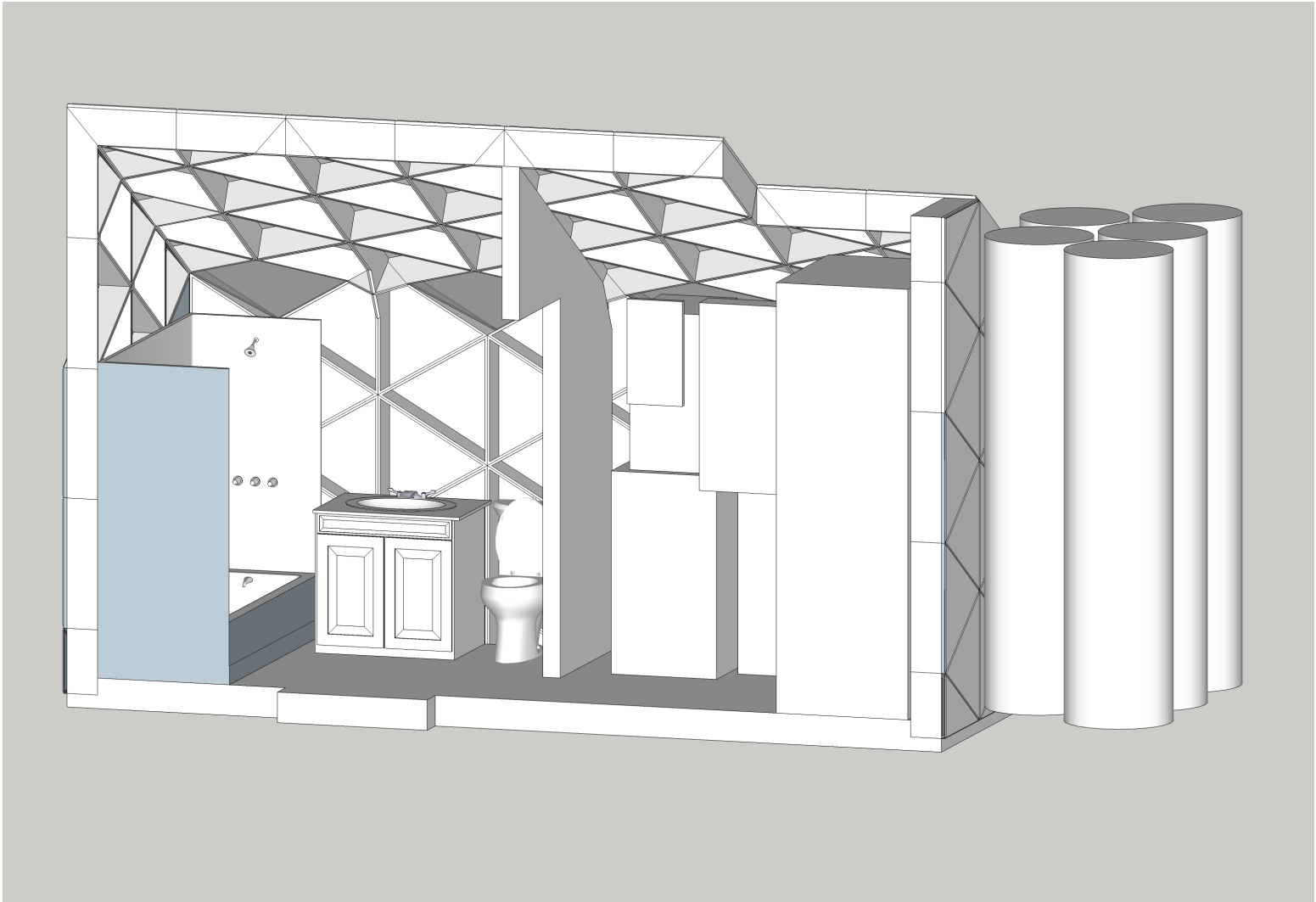


Transverse Section

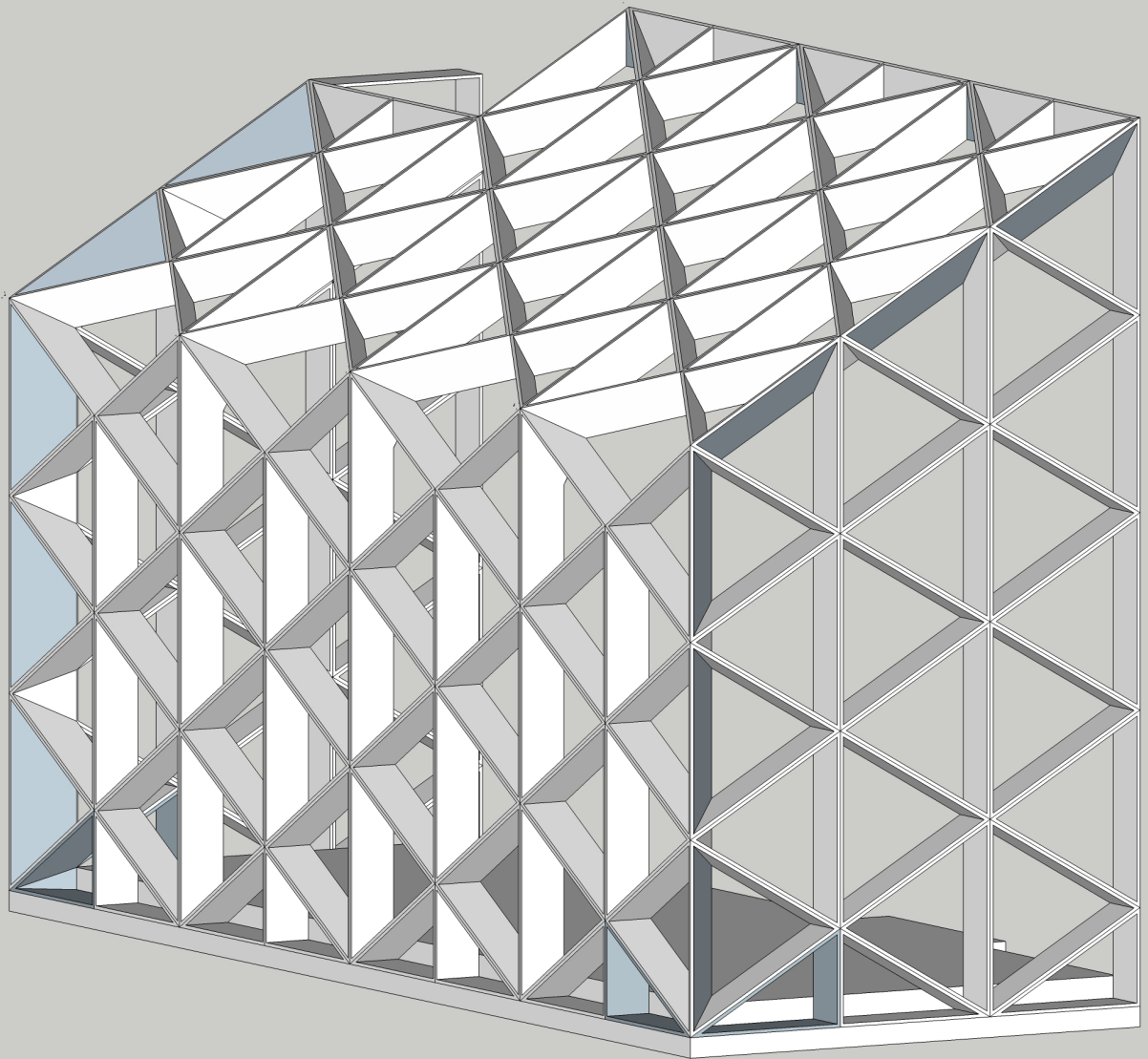


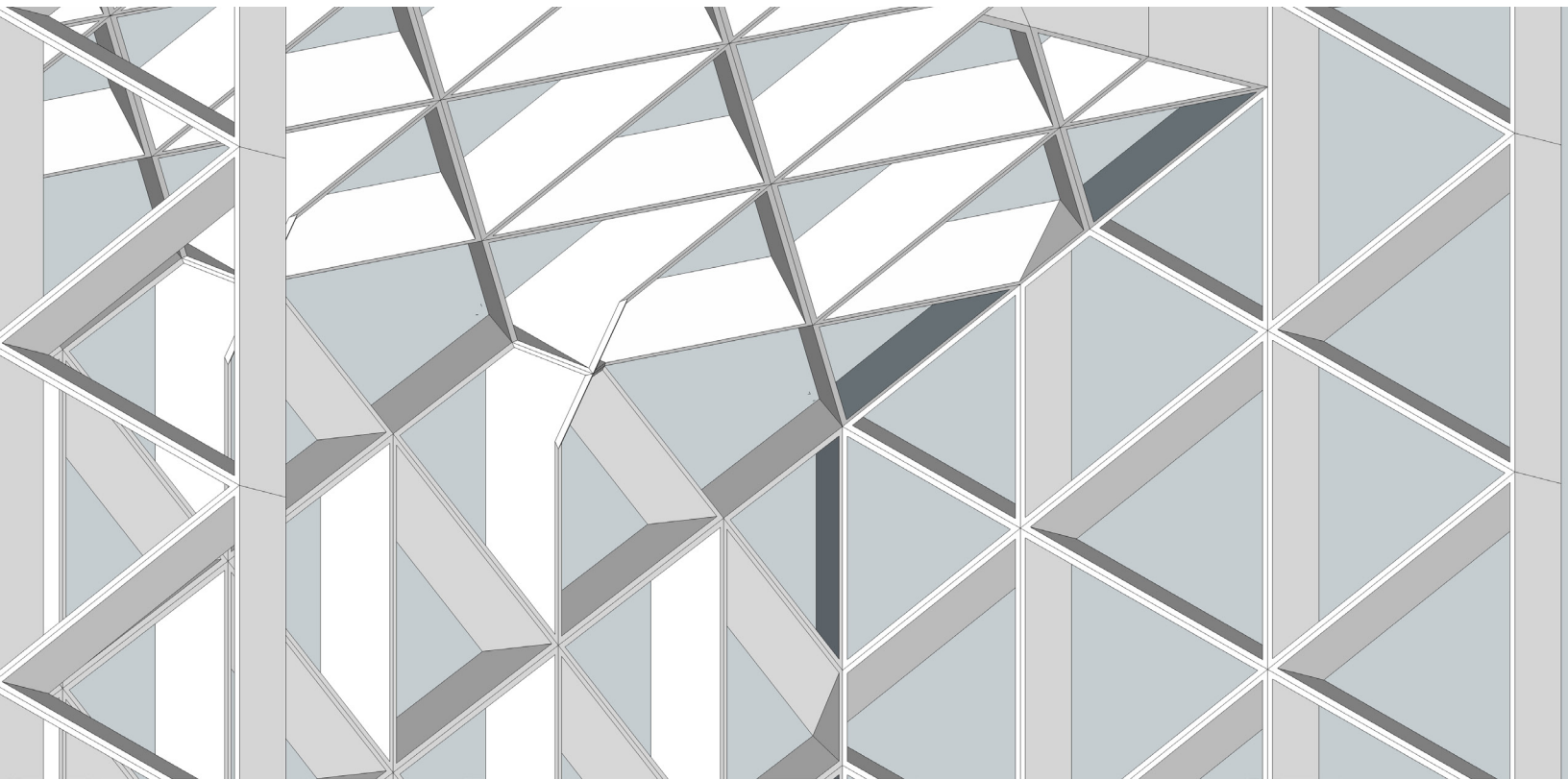
Longitudinal Section

















## Site Plan

71 Units

34 - 1 BR's

37 - eff, 2, and 3 BR's

~90 Parking Spaces



