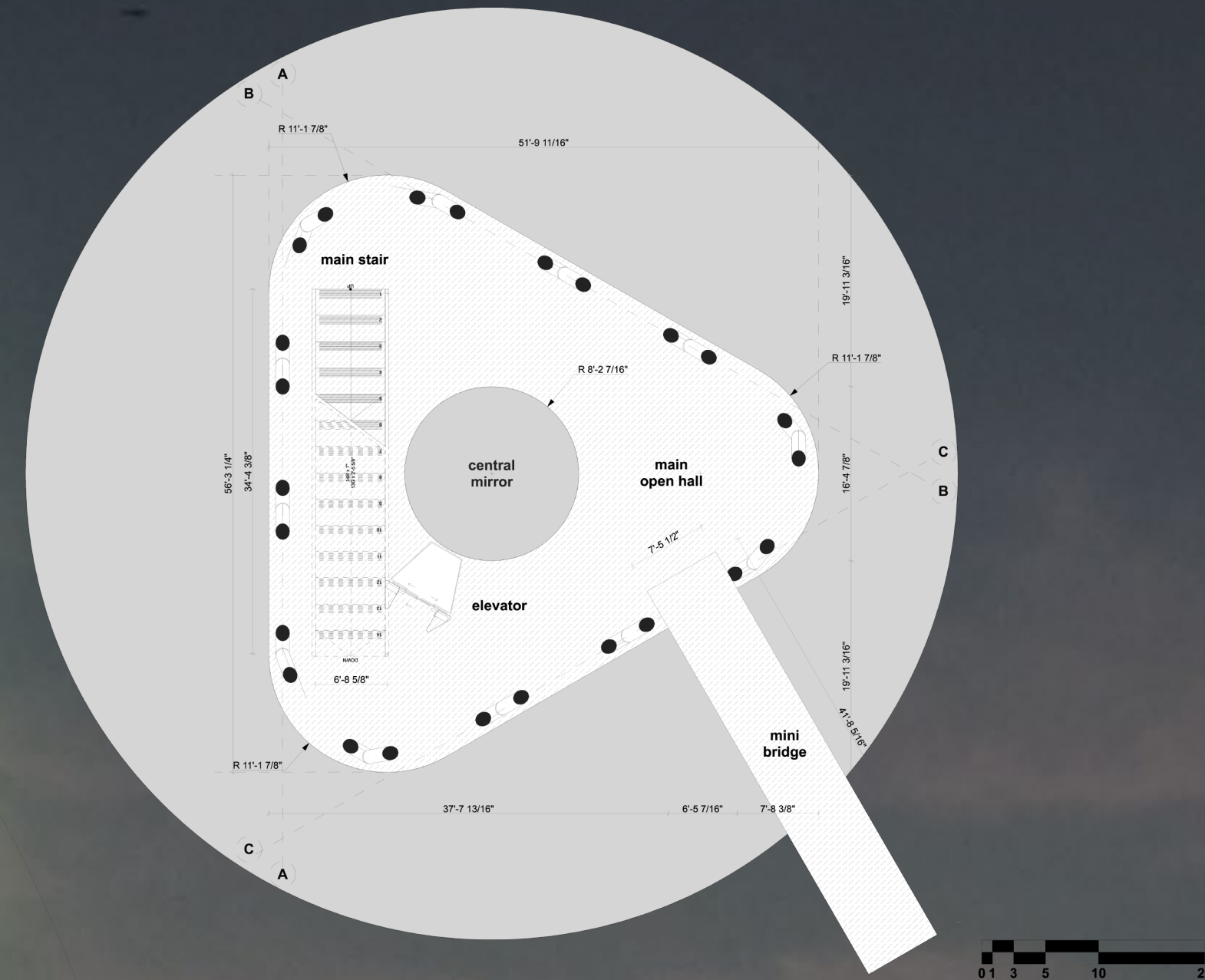


ALGAE LIGHTHOUSE

Algae Lighthouse project captures the CO2 in the atmosphere and converts it into O2. This is possible thanks to the 9500 Microalgae Lamps that are placed vertically along with a steel tower structure. The tower light up green at night thanks to the energy produced during the day, capturing energy from the sun and the microalgae photosynthesis. It is estimated that the tower will catch around 95 Ton of CO2 each year. We hope this tower will promote the research of new innovative technologies to support environmental issues that we might face in the future.



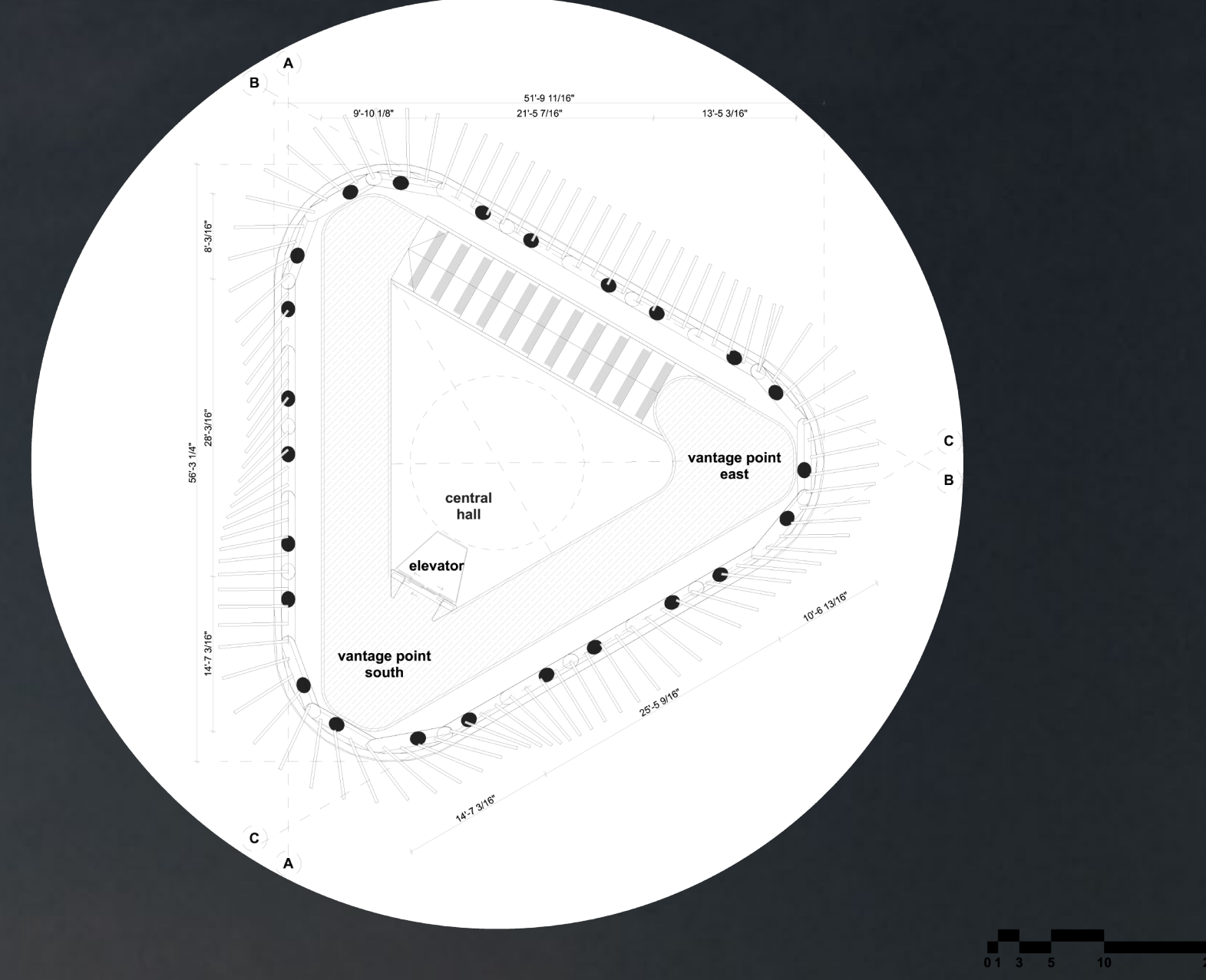
GROUND FLOOR PLAN



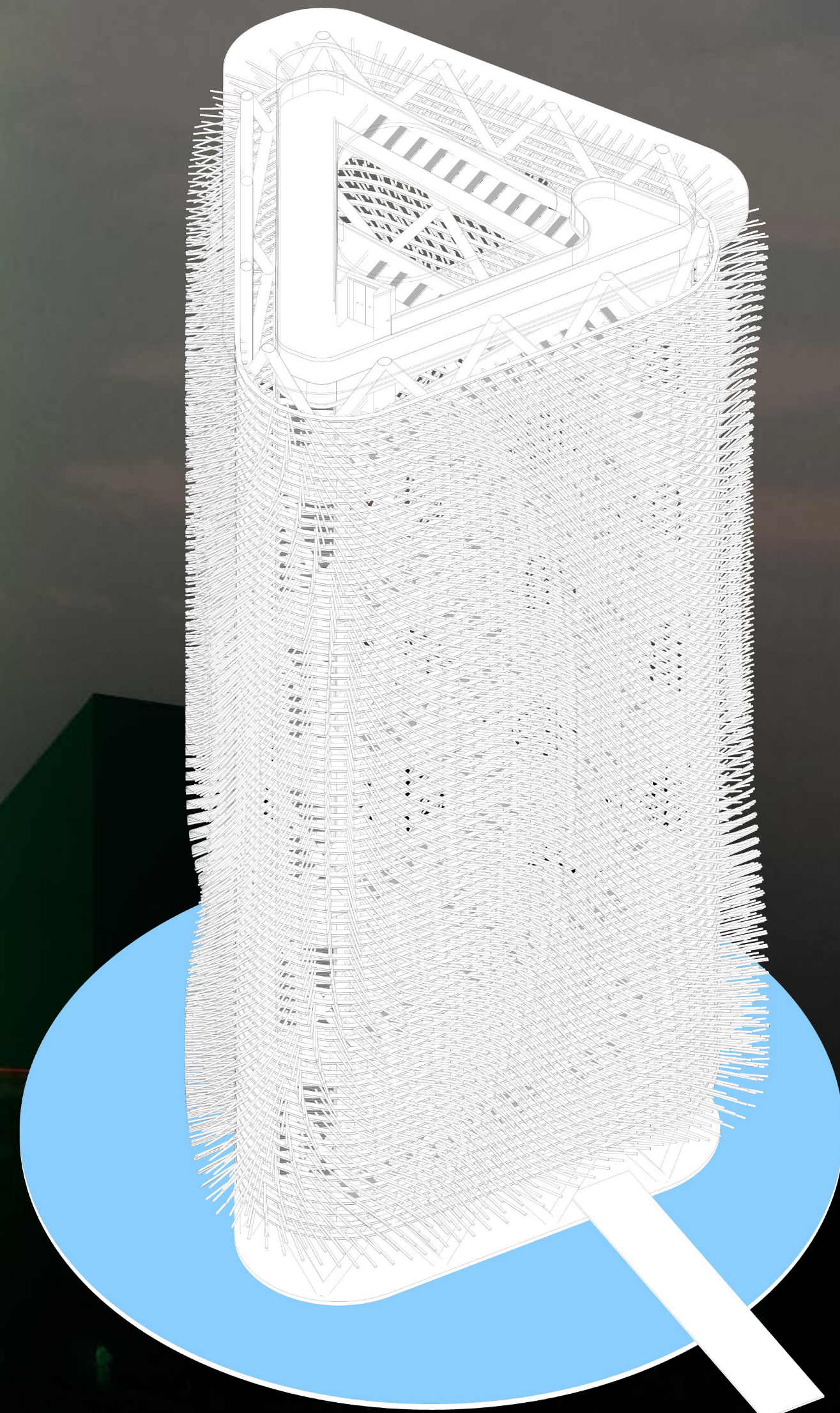
FLOOR PLAN



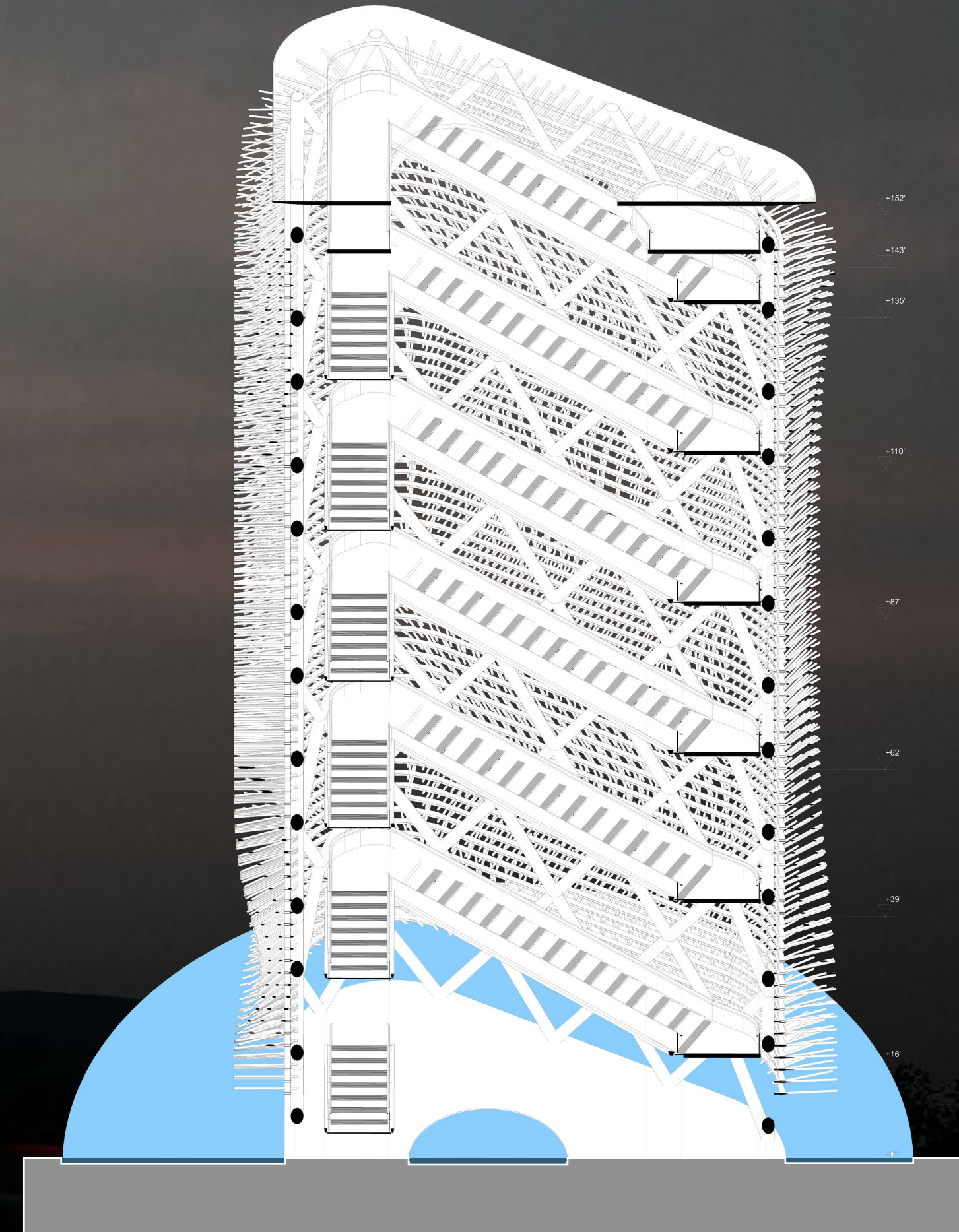
VANTAGE POINT FLOOR PLAN



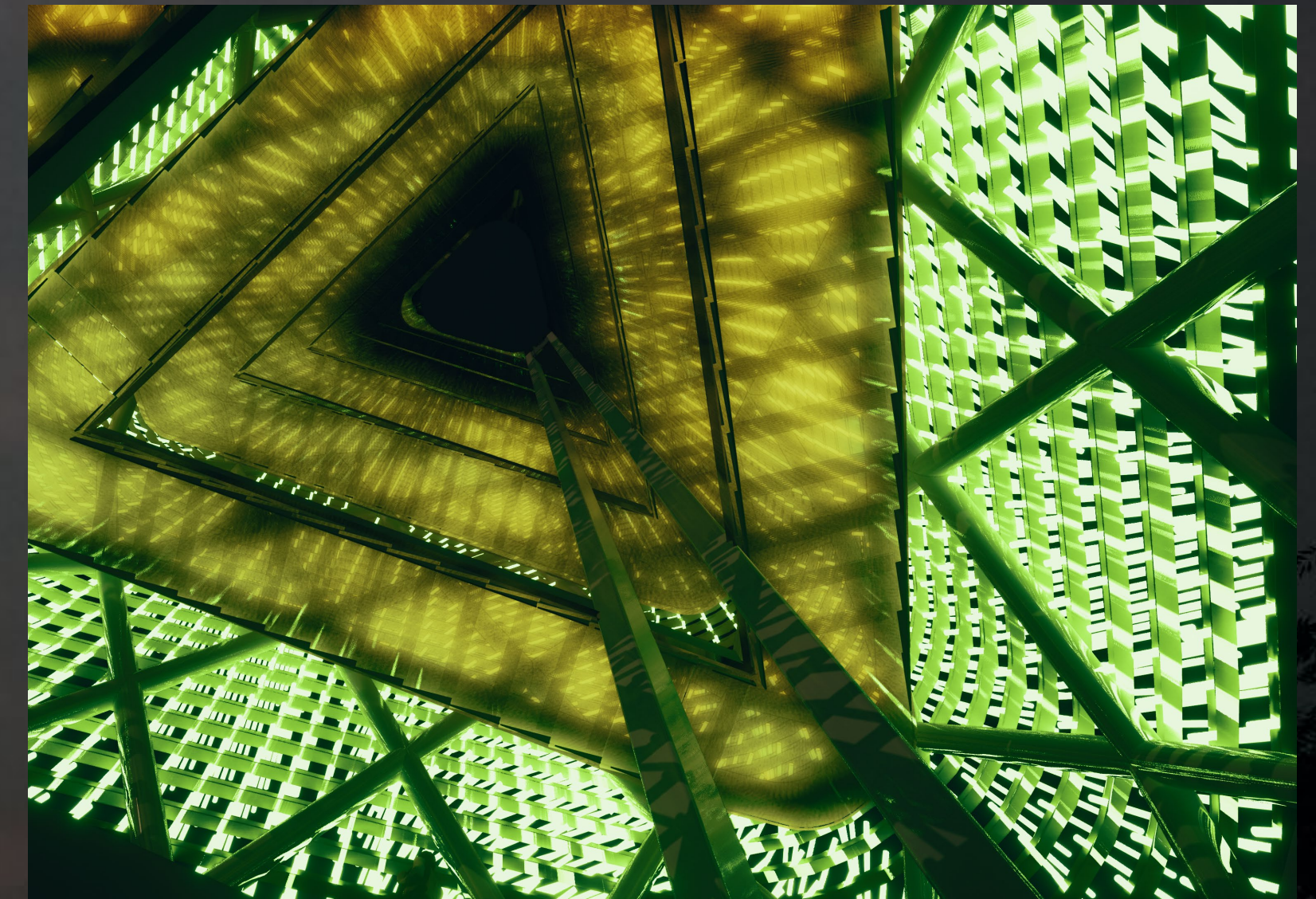
ISOMETRIC VIEW



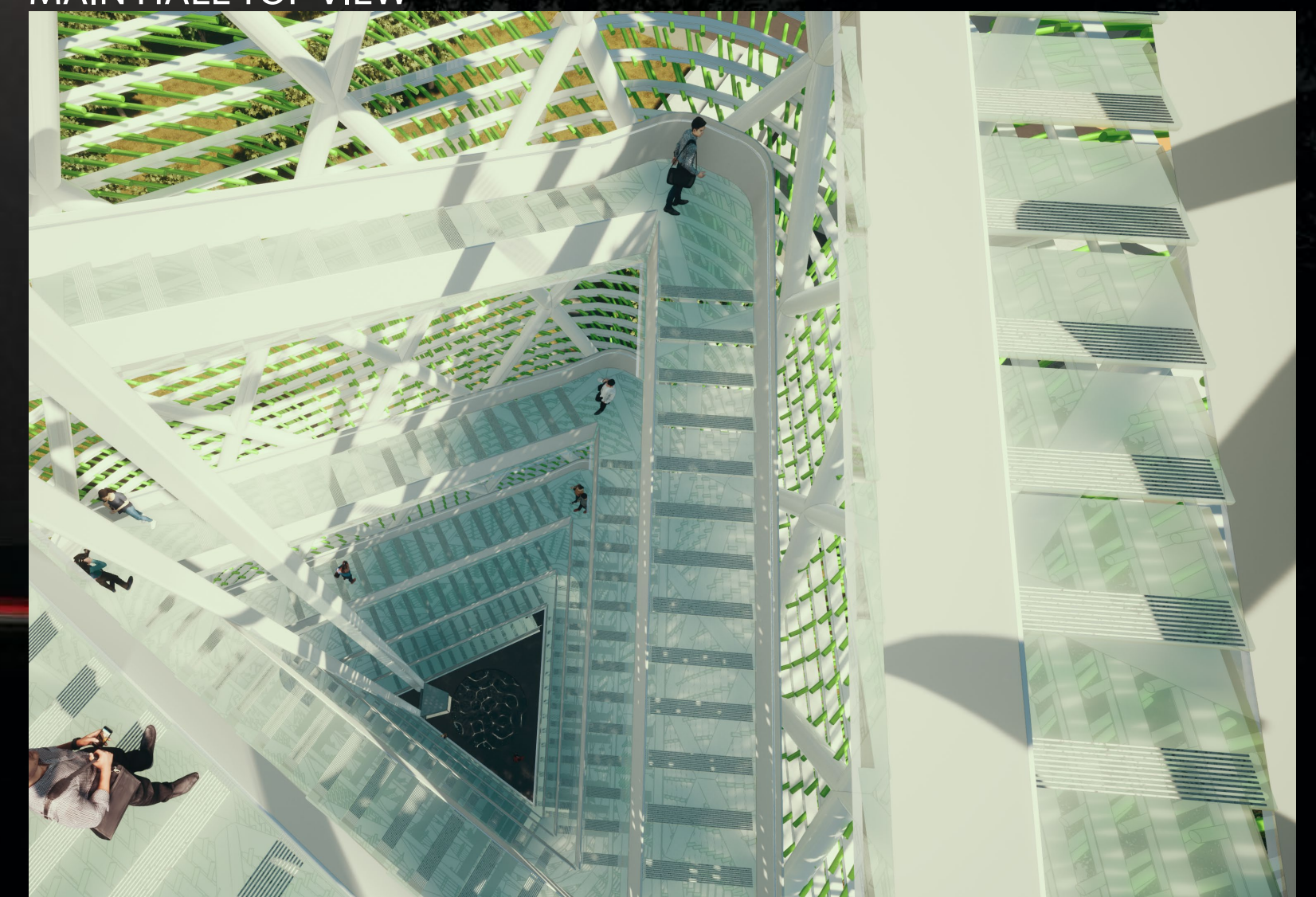
ISOMETRIC SECTION

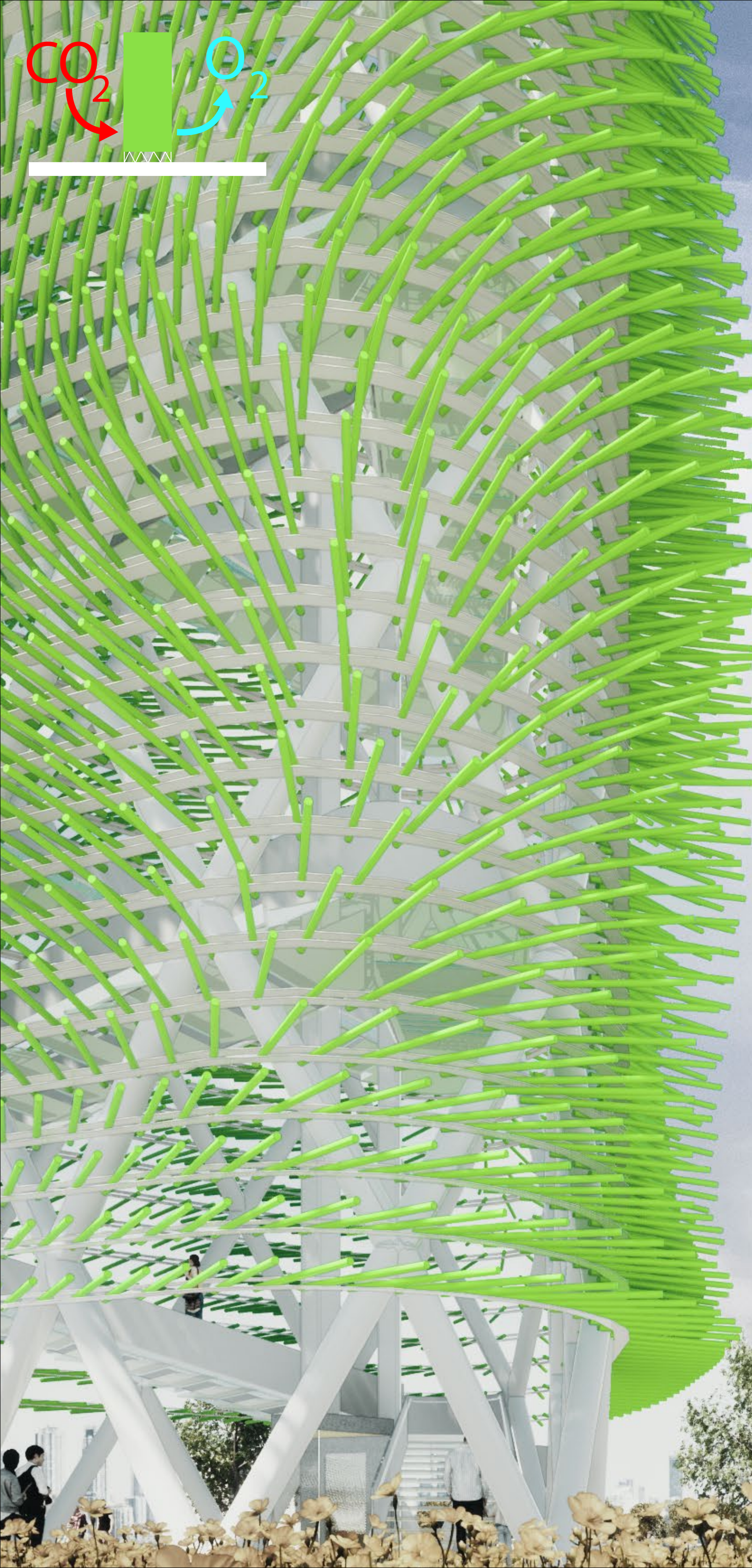


MAIN HALL NIGHT VIEW



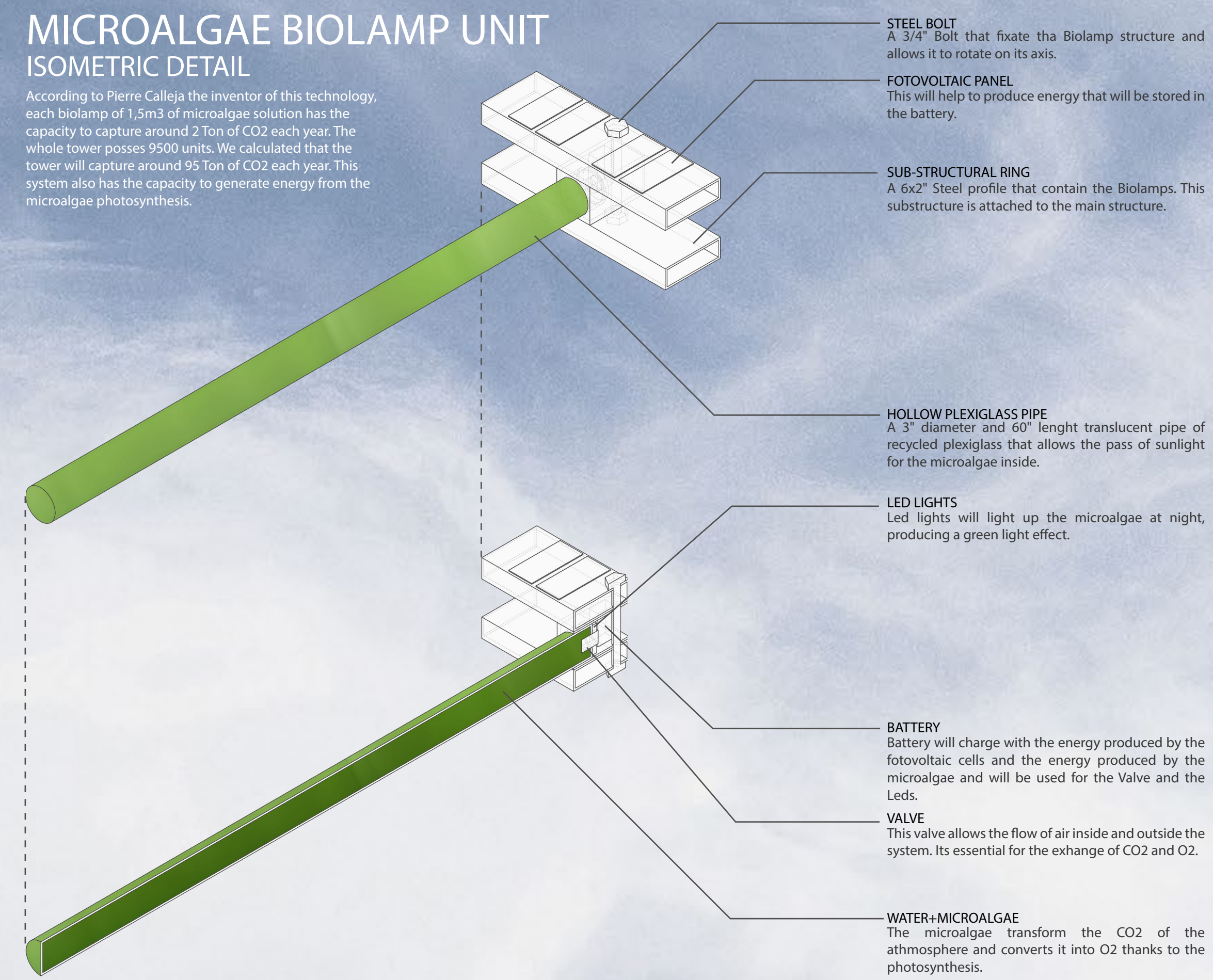
MAIN HALL TOP VIEW





MICROALGAE BIOLAMP UNIT ISOMETRIC DETAIL

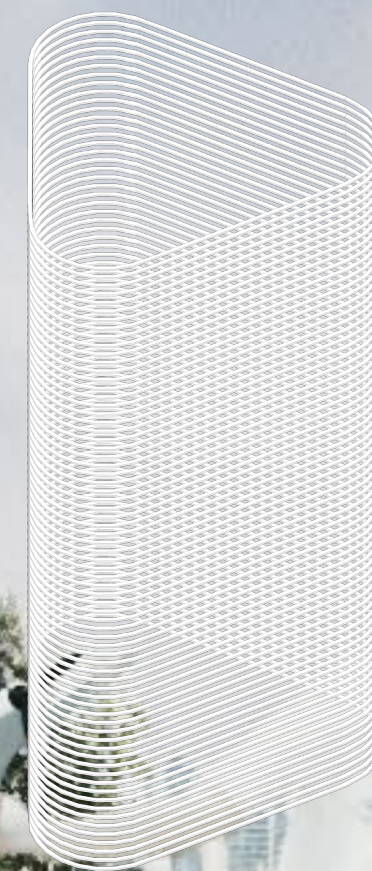
According to Pierre Calleja the inventor of this technology, each biolamp of 1,5m3 of microalgae solution has the capacity to capture around 2 Ton of CO2 each year. The whole tower posses 9500 units. We calculated that the tower will capture around 95 Ton of CO2 each year. This system also has the capacity to generate energy from the microalgae photosynthesis.



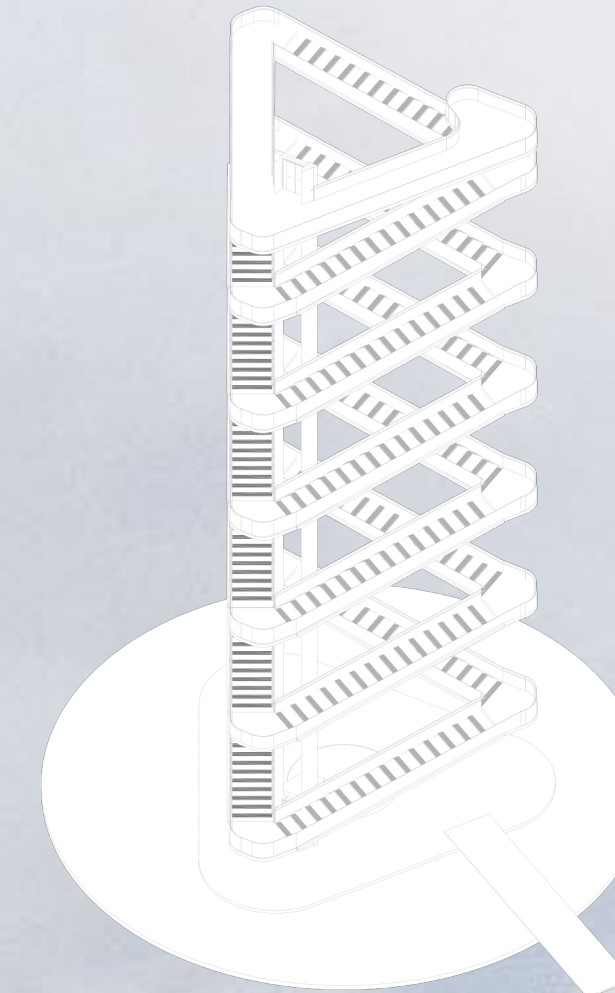
STRUCTURE



SUB-STRUCTURAL RINGS



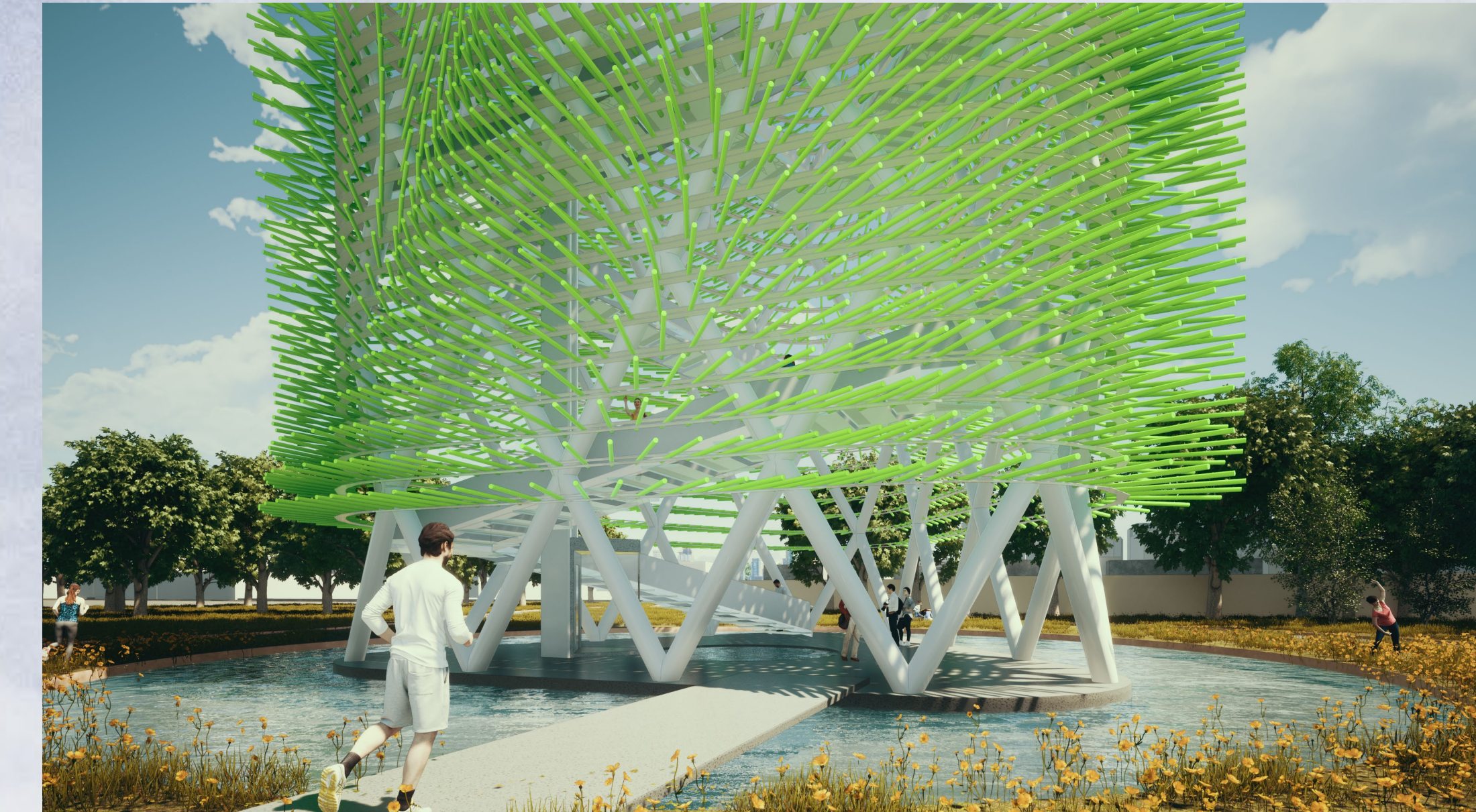
CIRCULATION



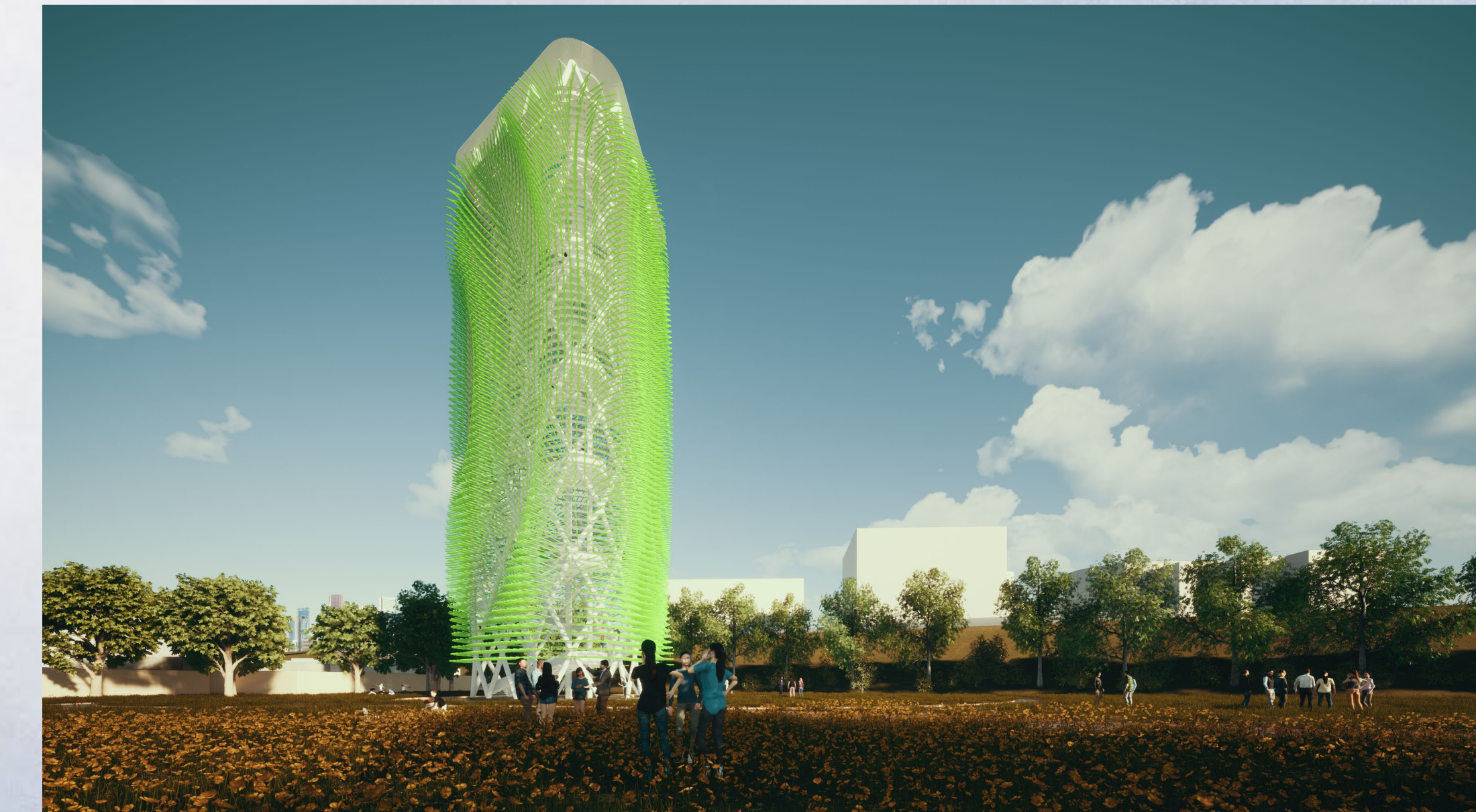
ALGAE BIOLAMPS



MINI BRIDGE VIEW



FIELD VIEW



ACCESS HALL VIEW

