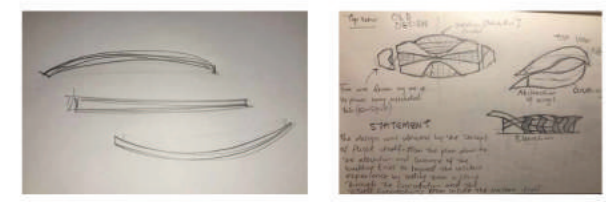


EMIRATES AIR MUSEUM

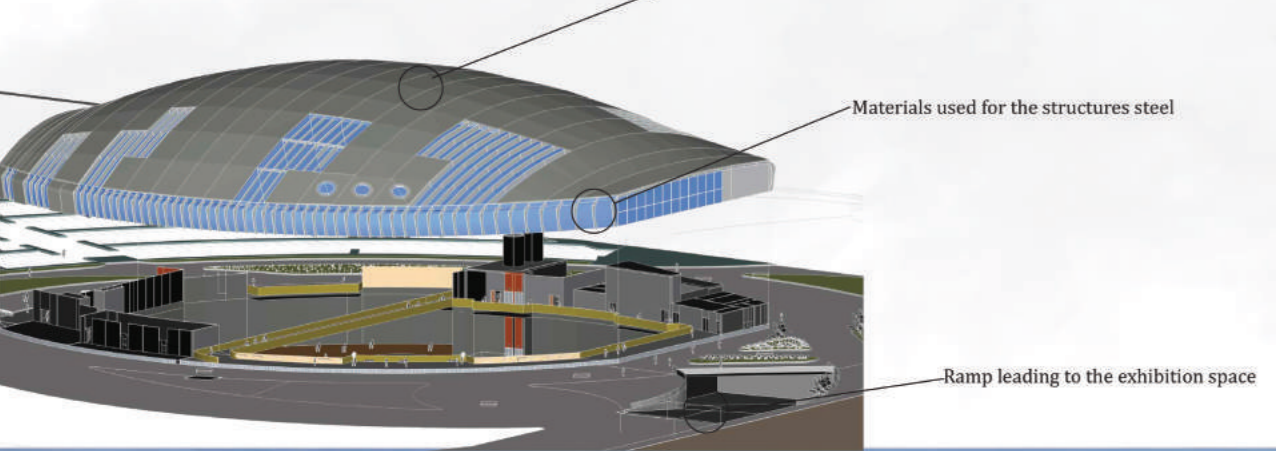
IDEA



IT STARTED WITH THESE 3 LINES

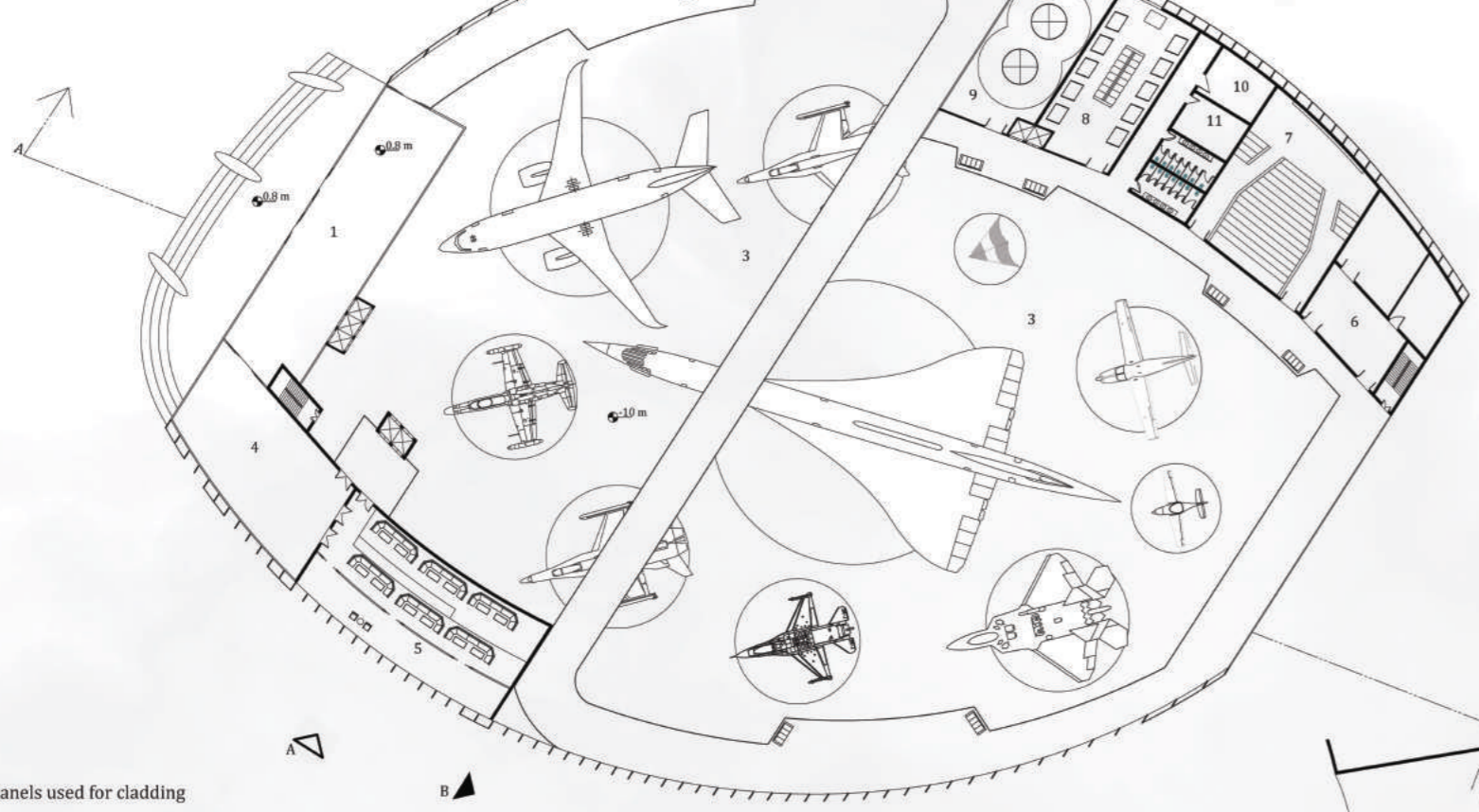
The main goal of this project was to design a unique aviation museum that highlights man's ingenuity. So the idea was to have a building that takes the visitors through different timelines in essence a time machine that takes them to the past, the present and the future of aviation. This way of thinking helped derive the final outcome of the building. From approaching the building, the building is designed to have a machine/spacecraft like features. And curvatures reminiscent of that of an airplane was applied to further harmonize the design. The plan of the building was developed around the main space (Exhibition). It was designed to take the visitors on a journey through different time periods.

AXONOMETRY



- Aluminum panels used for cladding
- Materials used for the structures steel
- Ramp leading to the exhibition space

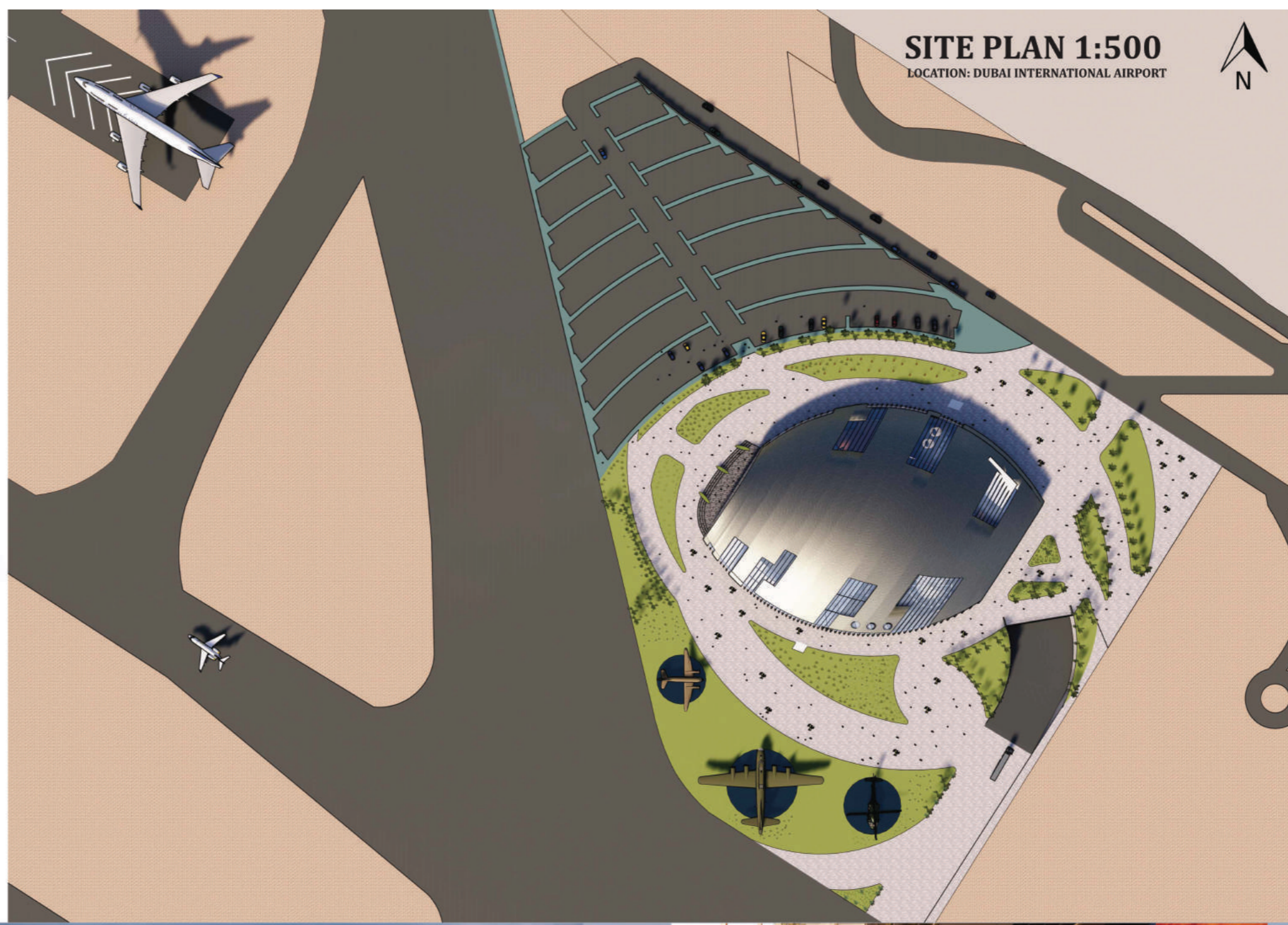
FLOOR PLAN 1:200



1. LOBBY
2. GALLERY
3. EXHIBITION
4. CAFE
5. OBSERVATORY
6. SIM 1/VR
7. CINEMA
8. SIMULATION 2
9. SIMULATION 3
10. STORAGE
11. PRAYER ROOM

CODES PLAN

- EGRESS
- Fire partition wall
- Fire barrier wall



SITE PLAN 1:500

LOCATION: DUBAI INTERNATIONAL AIRPORT



SUSTAINABLE MEASURES



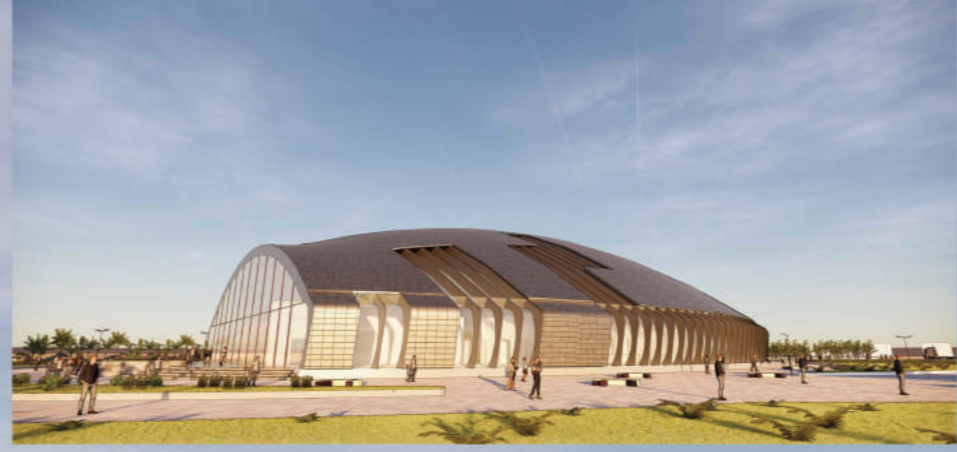
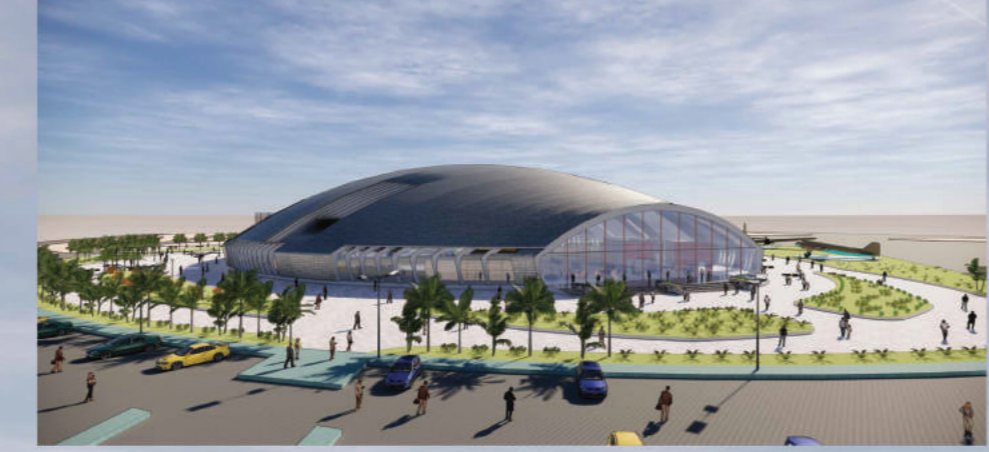
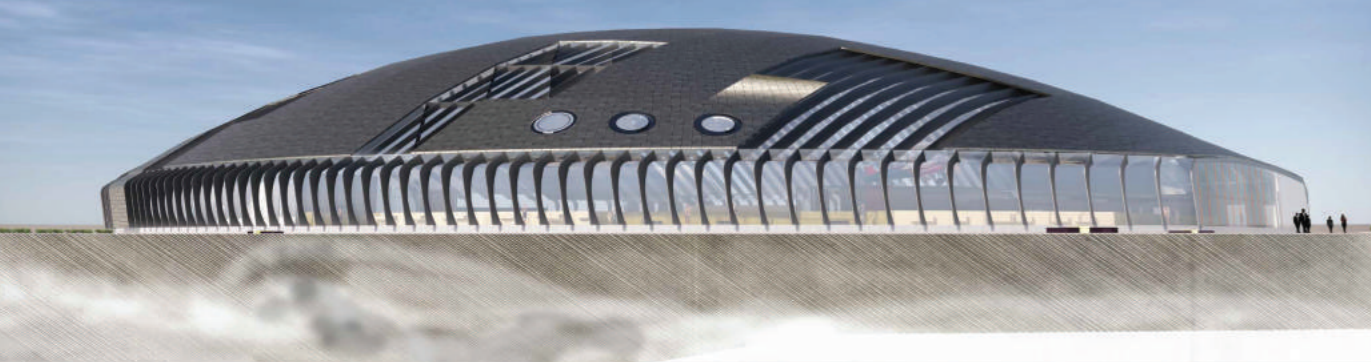
The after burn wind blast of an aircraft is blown towards the windmills and is utilized by the windmills to generate electricity.

Runways are always located to go against the predominant wind direction. NW in the Dubai's case, so the windmills are stationed around 200 meters before the runway and are constantly been blown by the dominant NW wind.

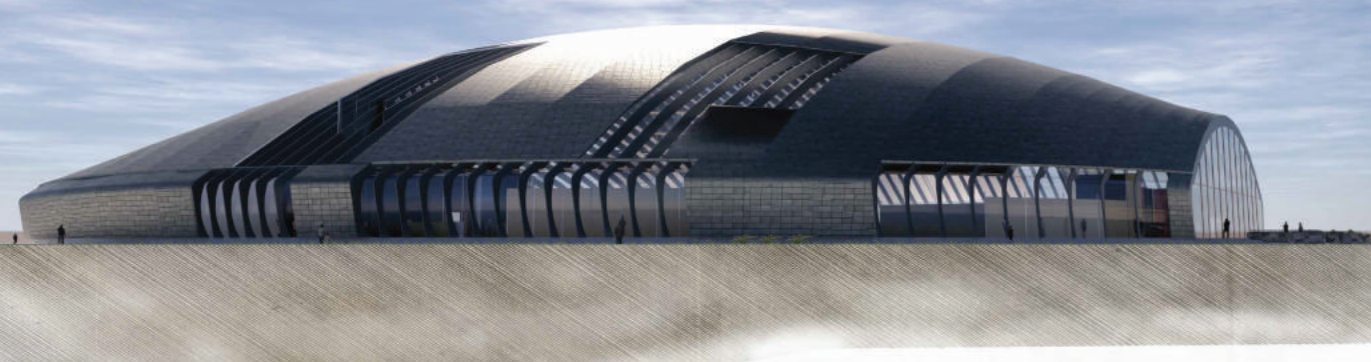
The windmills are designed to catch the wake turbulence of incoming aircrafts, thereby utilizing the wind and generating electricity in the process.

The structural steel columns are inclined at an angle to help reduce the intense heat of the region while also allowing sunlight to penetrate into the spaces.

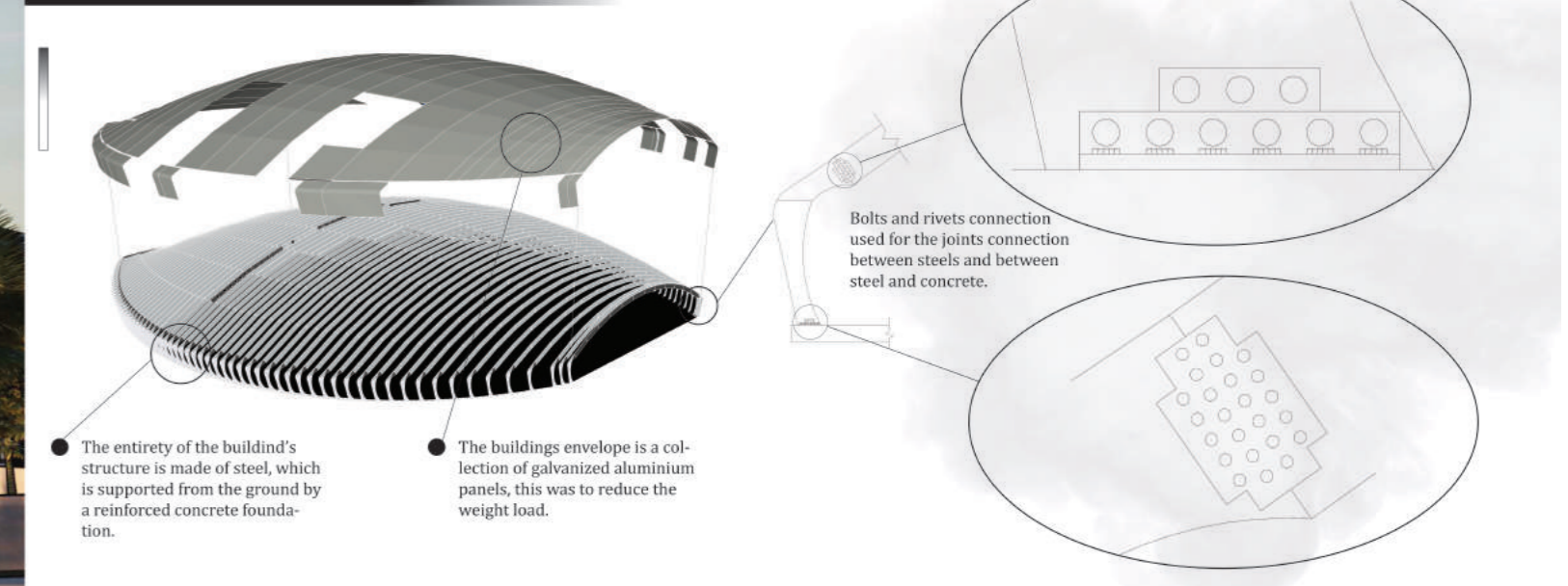
ELEVATION AA 1:200



ELEVATION BB 1:200



STRUCTURAL SYSTEMS

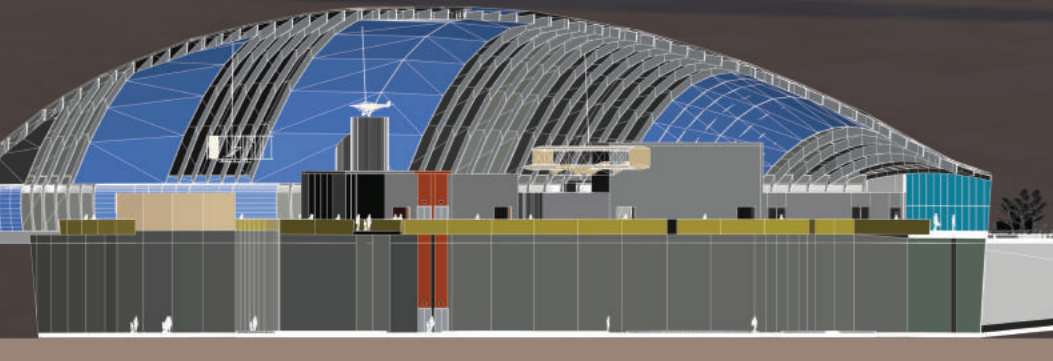


The entirety of the building's structure is made of steel, which is supported from the ground by a reinforced concrete foundation.

The buildings envelope is a collection of galvanized aluminum panels, this way to reduce the weight load.

Bolts and rivets connection used for the joints connection between steels and between steel and concrete.

SECTION AA 1:200



SECTION BB 1:200

