

Concept Board

The land/site is a campus area surrounded by public facilities such as parks and government offices. The site to be designed is located in the middle of the department building area. Around the site there are several kinds of architectural styles that already exist such as modern, post modern and international styles.



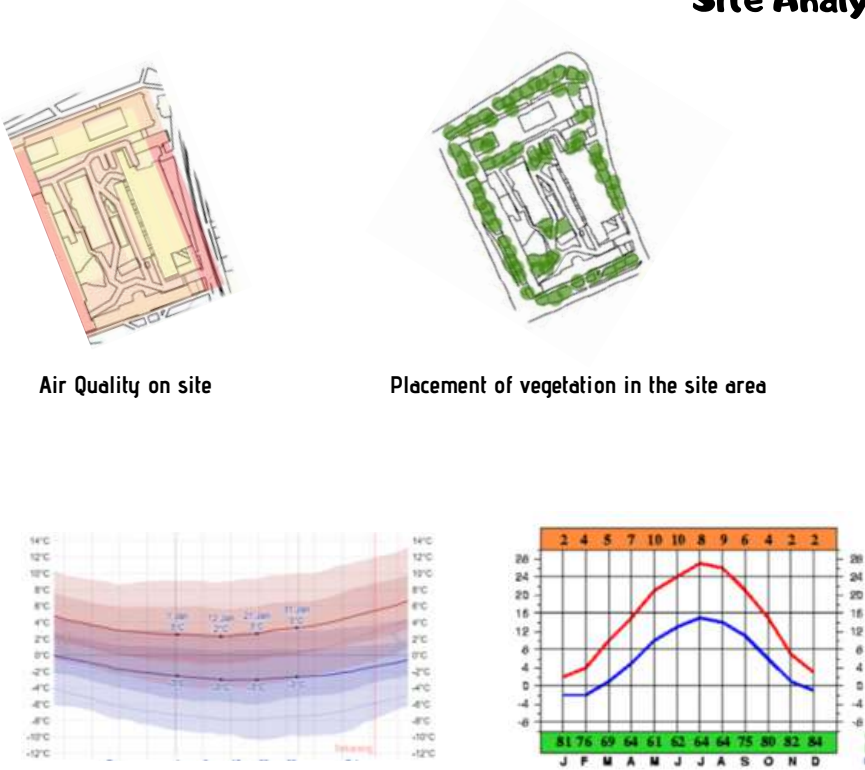
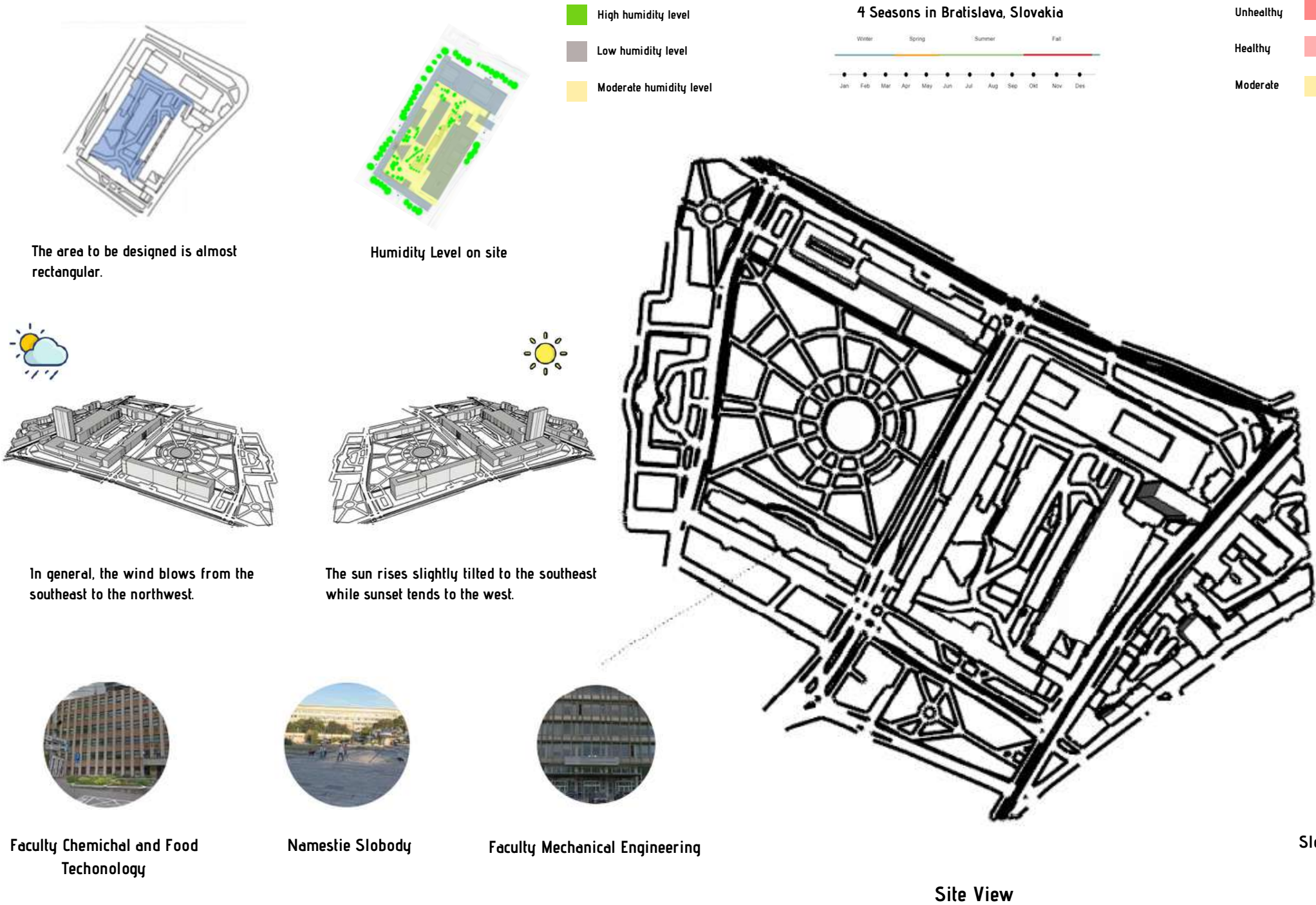
Project : Conceptual design of the STU campus
Location : Bratislava, Slovakia
Dimensions : 112 m x 200 m
Total Area : 22,400 m²



As a representative center of STU in Bratislava which includes STU's innovative science center, education, social, function and recreation rooms such as interior, exterior, and part of the rector's room. Requires building design and the possibility of building transformation. the laboratory on the grounds of the STU Bratislava campus must include a functional space.

Project Profile

Site Analysis



In Slovakia there is a special climate for the European continent, namely a cold climate and a hot climate. The daily highest temperature is around 3°C, rarely dropping below -4°C or exceeding 10°C. Daily low temperature around -3°C, rarely drops below -10°C or exceeds 3°C.



Faculty Chemical and Food Technology



Namestie Slobody



Faculty Mechanical Engineering



Slovakia Technical University



Faculty Chemical and Food Technology



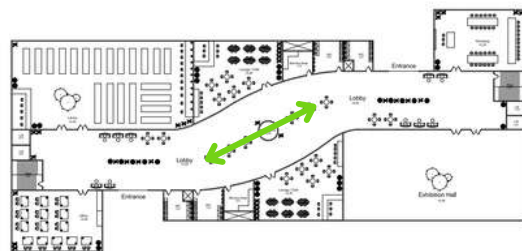
Faculty Civil Engineering

Tema

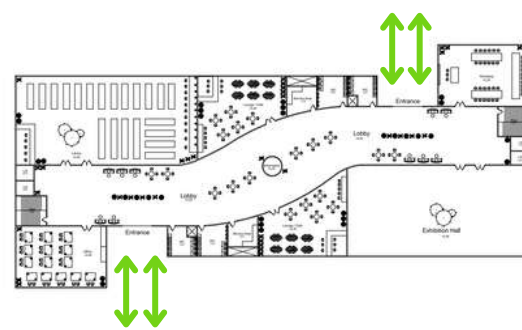
By using the Sustainable Theme, the building must have a design application that cares about the surrounding environment and does not damage the natural ecosystem. Some of the sustainable applications in buildings are the existence of an open green field with a large size, the building uses natural lighting and air circulation and has a sustainable concept.

Concept

Contemporary concepts have expressive and dynamic compositions. This building has the basic shape of a rectangle and then is given some additional mass so it doesn't look stiff. With the shape of the roof and the corrugated sec skin, it strengthens the contemporary concept of the building.

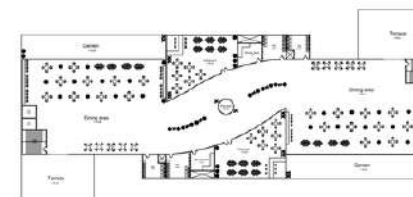
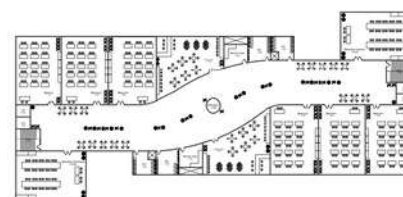
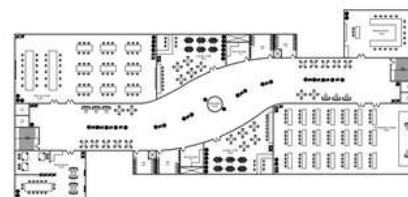
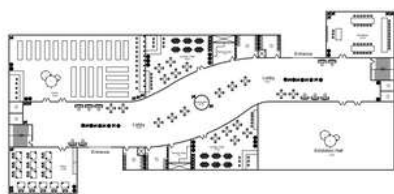


The concept of circulation uses linear circulation, namely a straight path that can be the main forming element of a row of spaces. Linear circulation only has 2 directions so that visitors are not confused in determining the direction.



The concept used at the entrance is an open concept. Will use glass which can give a modern element and also make the space bigger. The existence of some vegetation to increase air circulation into the room.

Floor Plan



"Building a building as a learning center for everyone and is universal and has a relationship with nature in order to develop student creativity."



ST.ural

ST.ural, namely wanting to create a natural feel in learning activities so as to provide new experiences for students and make them comfortable while learning. Not only in terms of learning activities, but also in terms of exterior and interior nuances of nature. This can increase the creativity of students and teachers in developing their potential.

ST

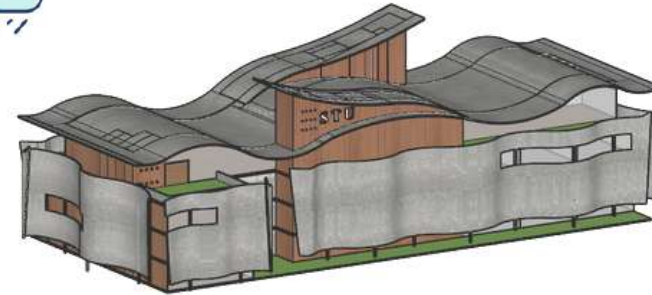
ST (Study) which means to study, means that STU is a place for learning from all walks of life and is universal.

ST.u

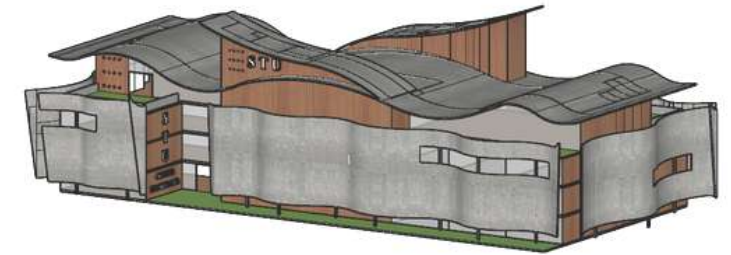
STU which stands for (Slovak Teknik üniversitesi) is the building to be designed.

.ural

Ural (natural) which means nature, means that the building will give a natural feel to the exterior and interior.



The wind blows from the southeast to the northwest. Air circulation can work well because the building will have many openings so that air is not blocked when it enters the entire room.



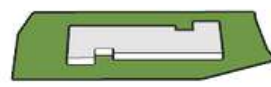
The sun rises slightly tilted to the southeast while sunset tends to the west. In the morning, the building will receive direct natural light and during the day there will be shadows around the STU.

Circulation Concept



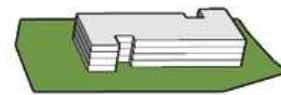
Fisrt step

Make a box base



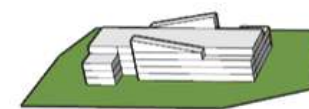
Cut And From

Cutting the base shape



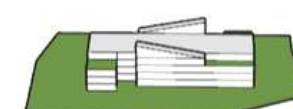
Extrude

From Form on extrude



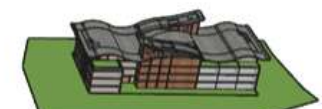
New From

Added shape at the top



Vegetation

Given some vegetation on buildings and sites



Step Final

Provided material and roof on the building

Space And Mass



Concept ideas come from both objects, namely books and paper. The book is applied to the roof of the building and the paper is applied as a secondary skin. These two objects have meanings, namely books as a sign of learning and paper as writing the history of STU.

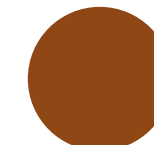
The shape of the roof is like an open book. This shape can be an accent or an icon because it has a different shape from the others.

Sec skin is like a sheet of paper that writes history - the history of STU. With the sec skin, the building is not passive because of the dynamic movement generated from the sec skin, which is a wavy and peeling shape.

Material



Cream



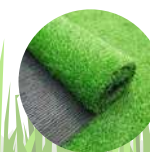
Brown



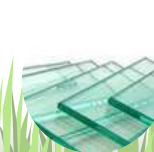
Gray



homogeneous tile



Synthetic grass



Glass



Gypsum



Concrete



Solid Wood



Classroom



Meeting Room



Rector Room



Presentation Center



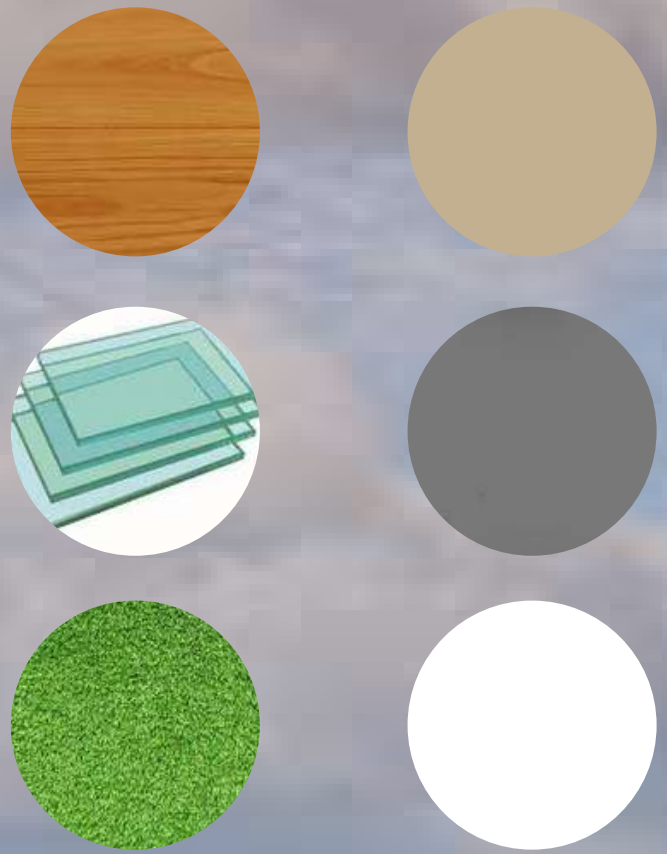
Interior

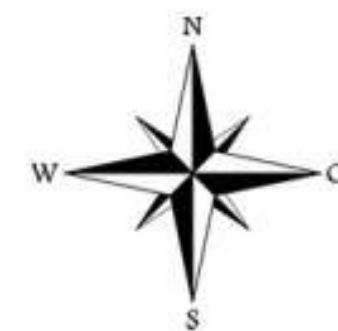
Biophilic concept is a concept that connects humans with nature. This concept has many benefits in mental health. Ambience of space, namely using natural lighting and air circulation can work well in the interior of the building. The interior uses natural materials and is open

Space Requiment

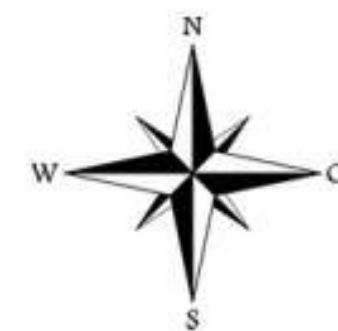
- ✓ Natural
- ✓ Vegetation
- ✓ comfortable
- ✓ Beautiful
- ✓ Modern

Material





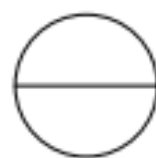
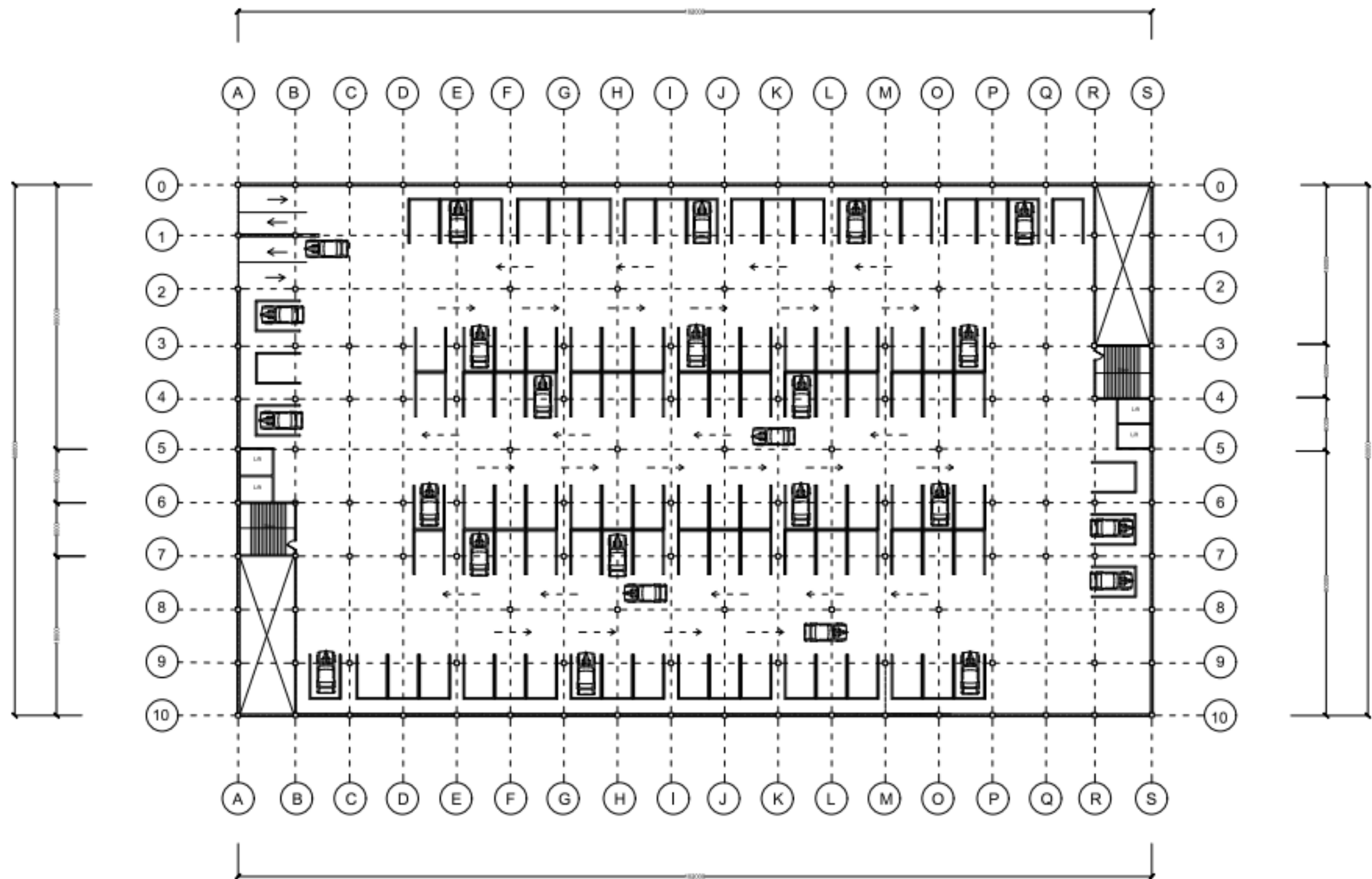
Site Plan
Skala 1 : 500



Site Plan
Skala 1 : 500

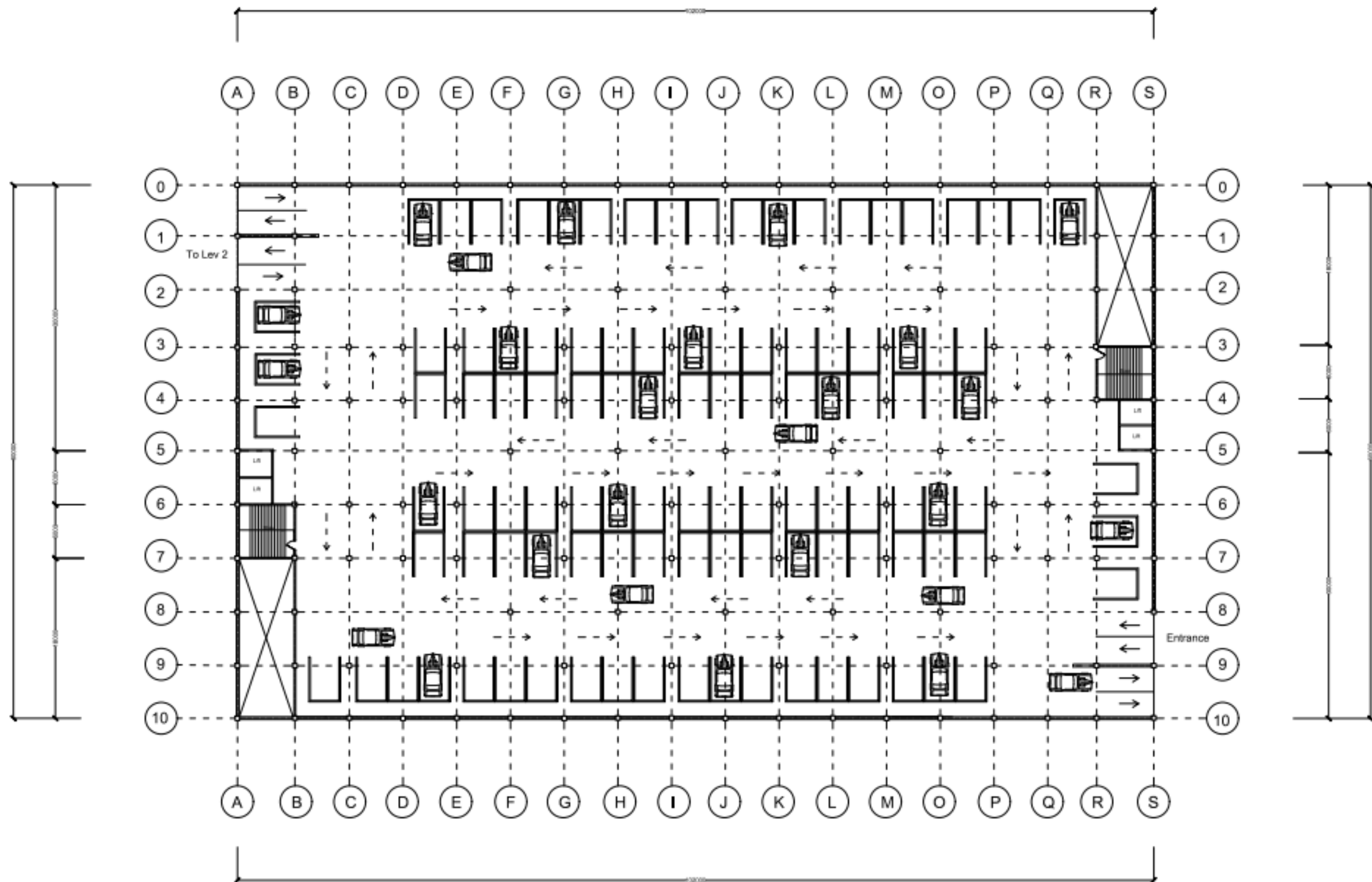


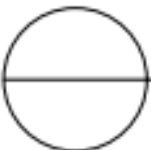
Layout
Skala 1 : 500

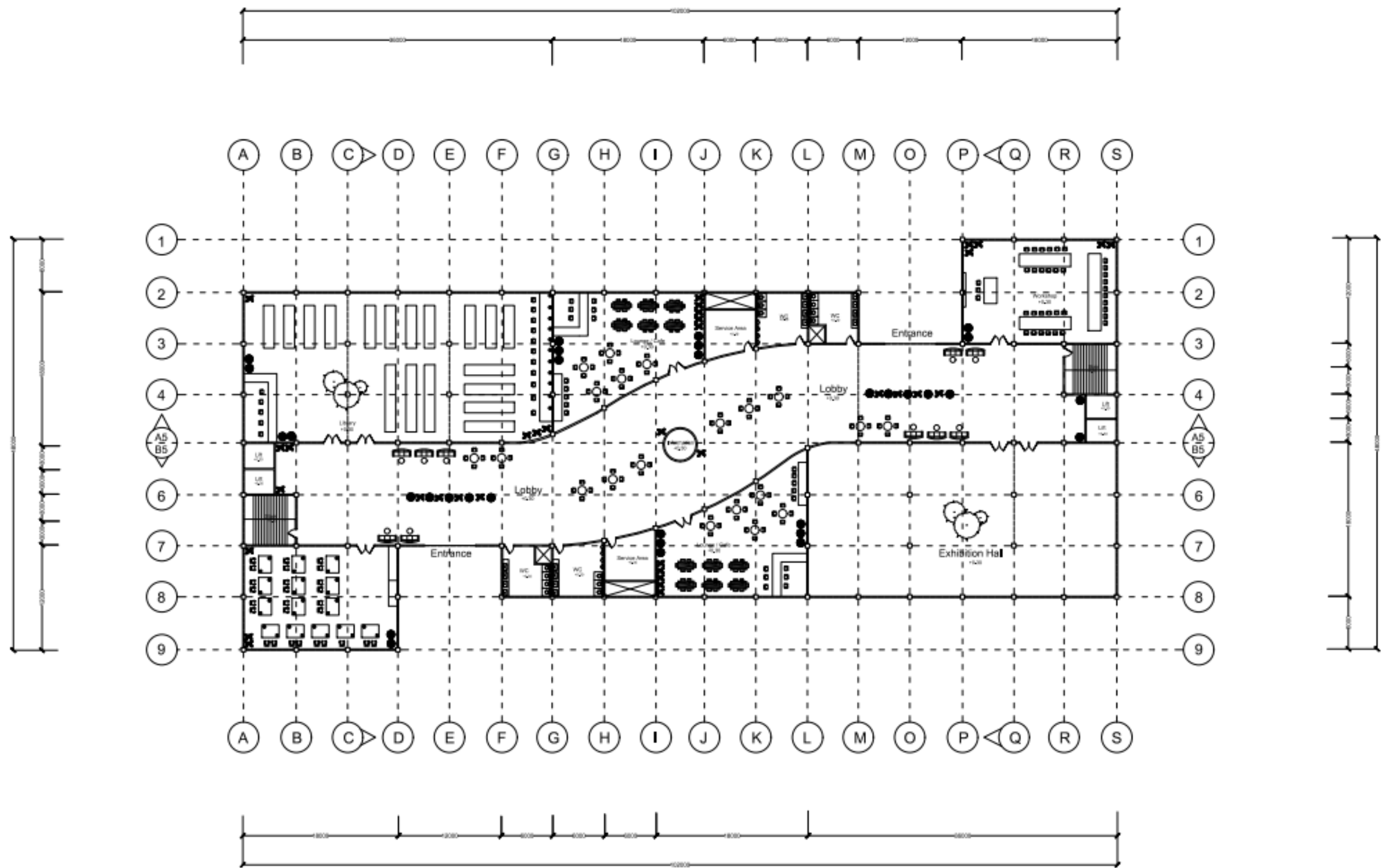


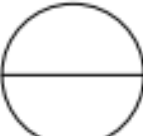
Underground Column Plan Lev 2

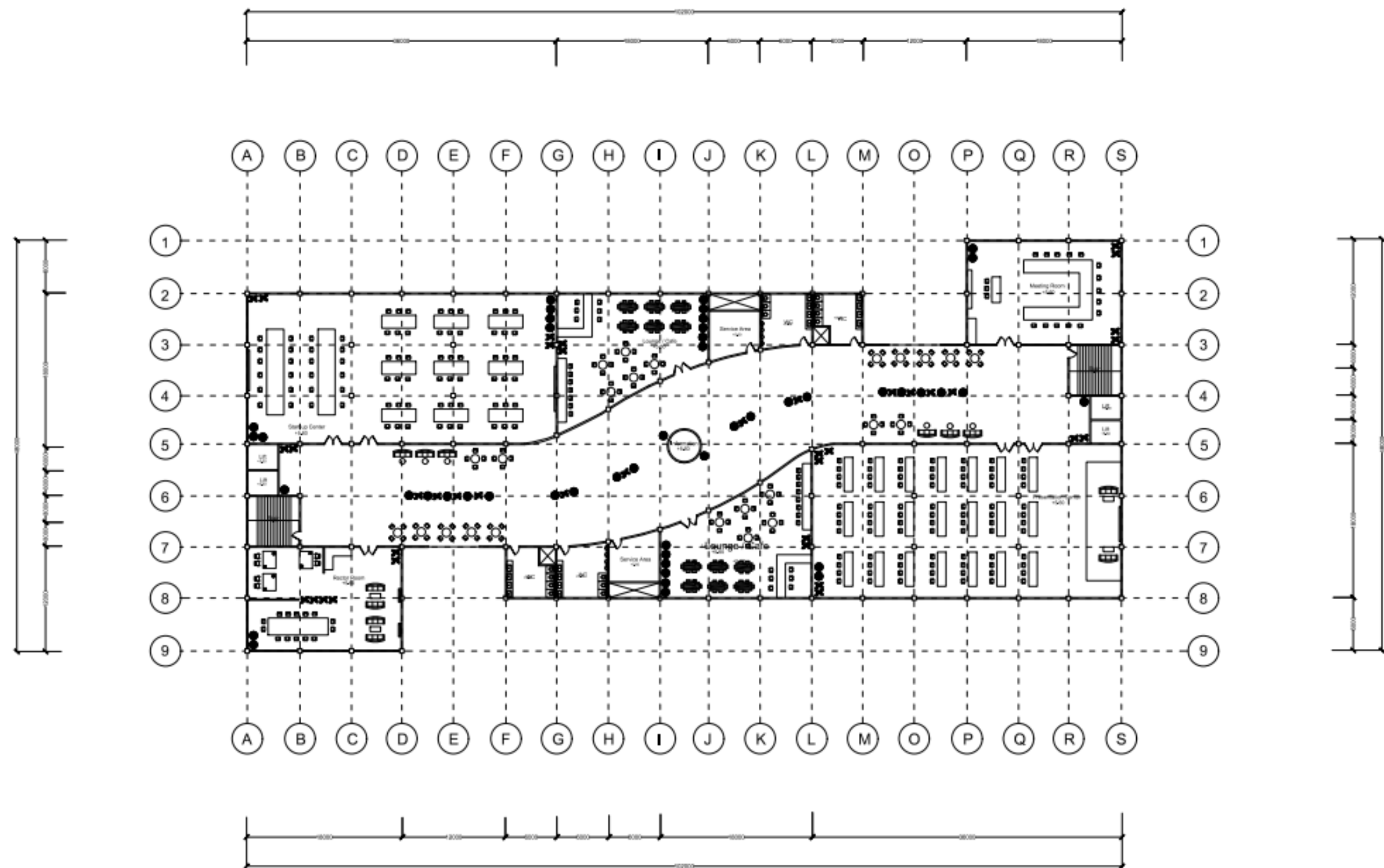
Skala 1 : 200

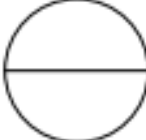


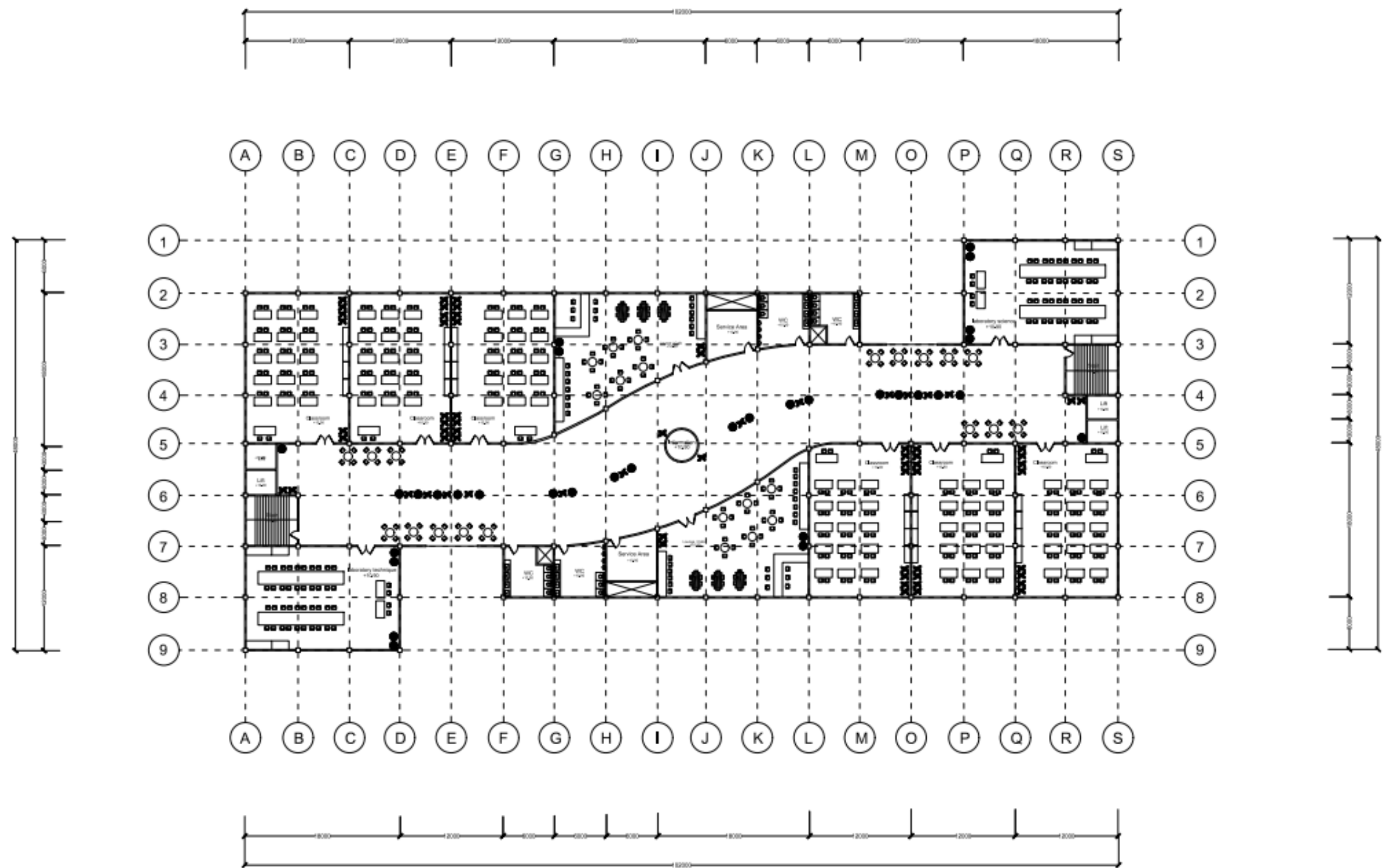

Underground Column Plan Lev 1
 Skala 1 : 200




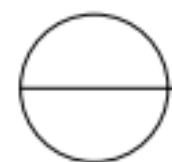
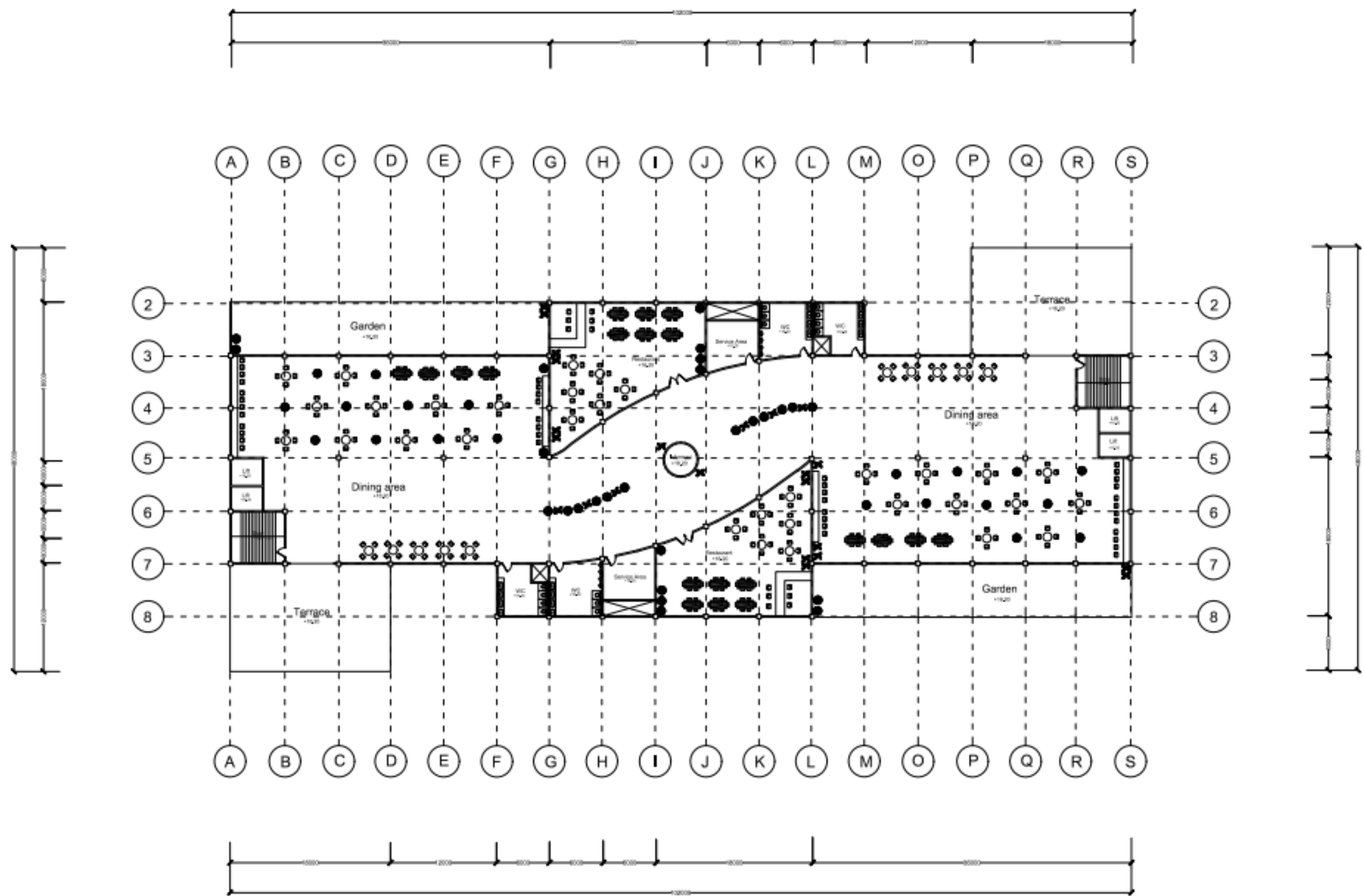

Column Plan 1
 Skala 1 : 200



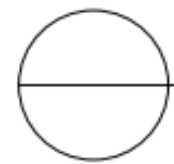
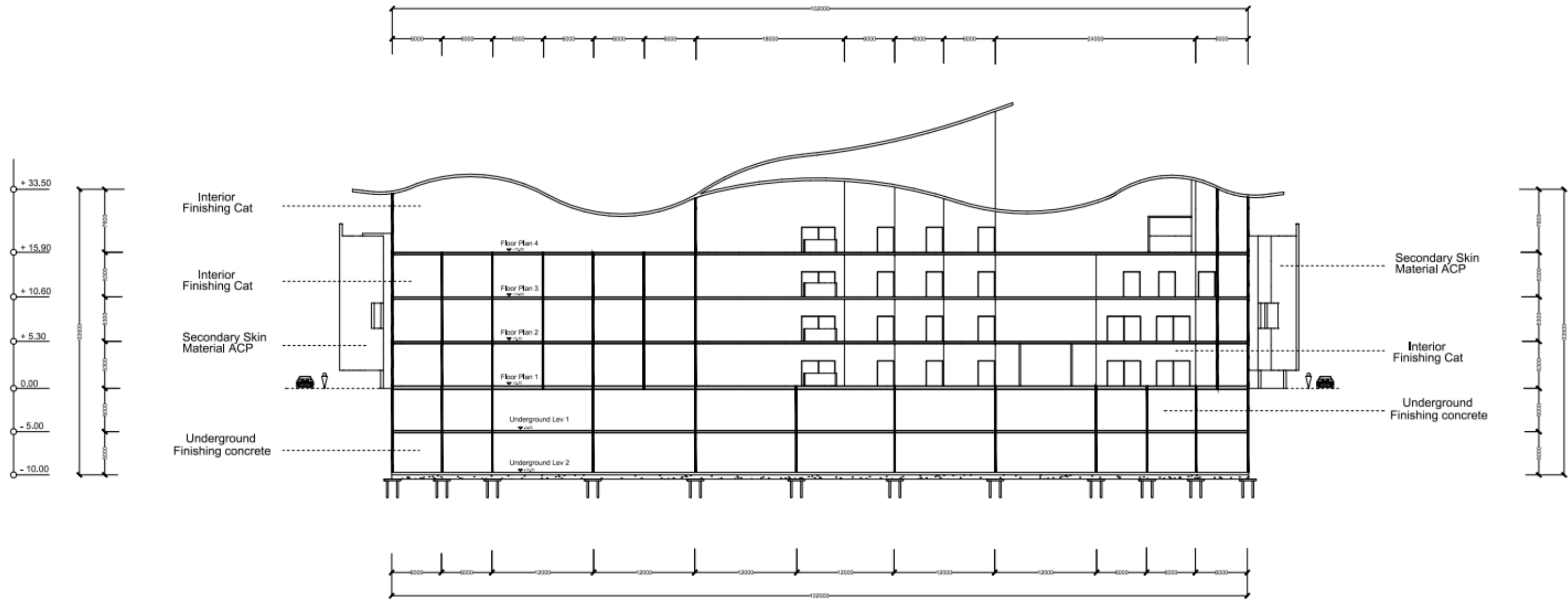

Column Plan 2
 Skala 1 : 200



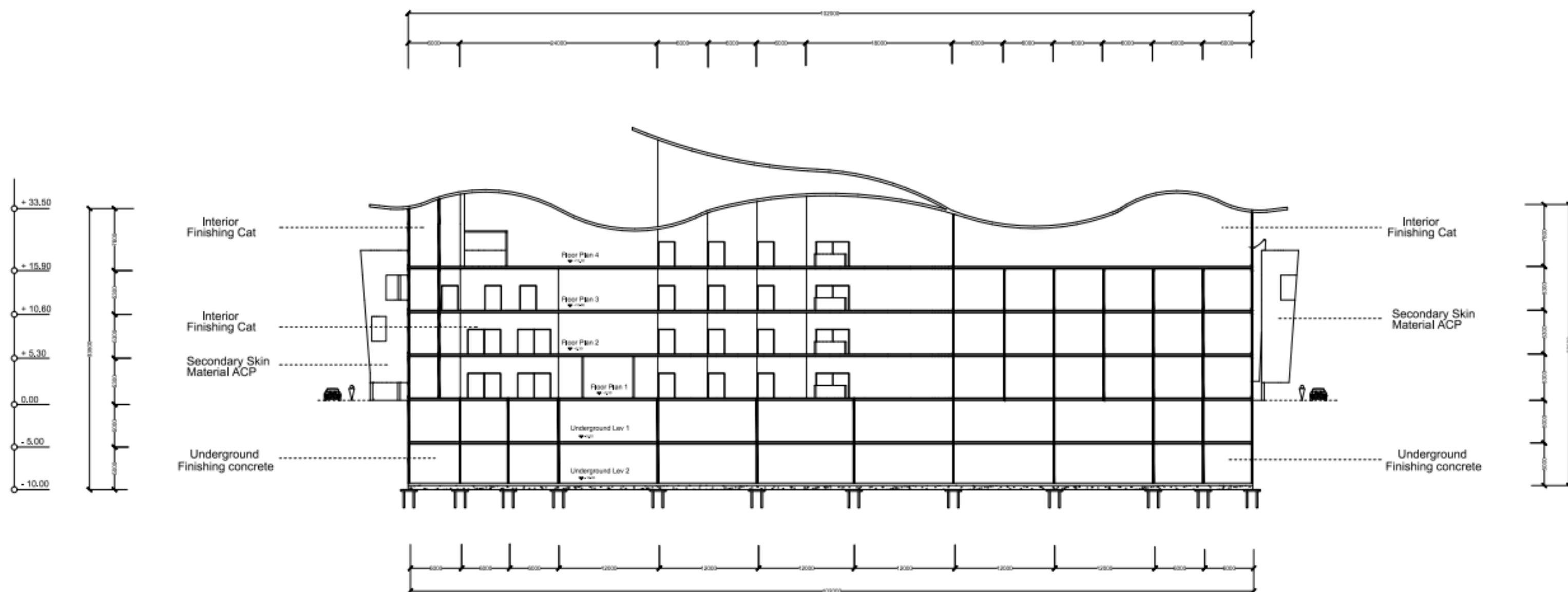

Column Plan 3
Skala 1 : 200

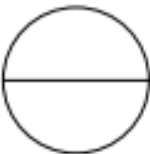


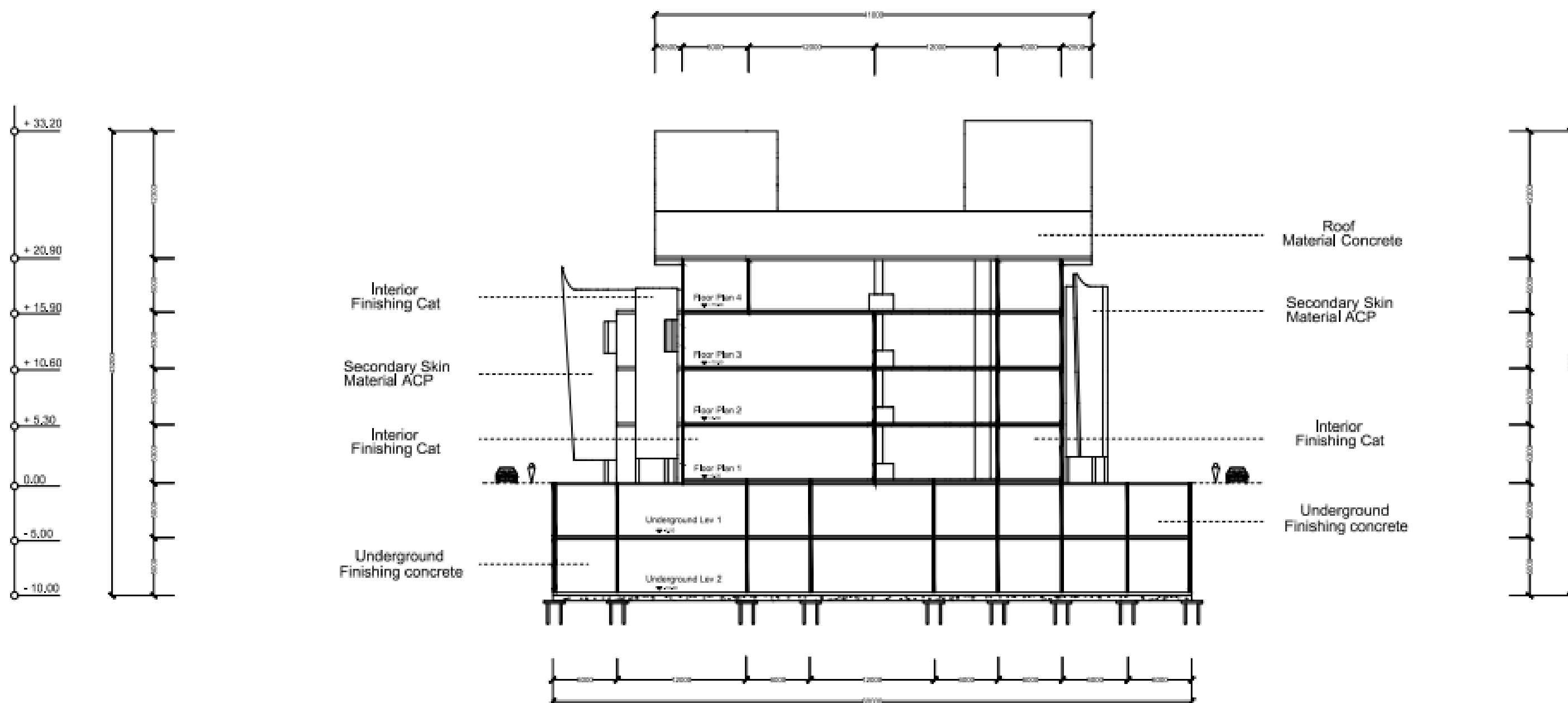
Column Plan 4
Skala 1 : 200

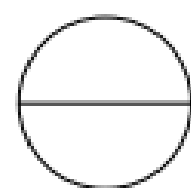


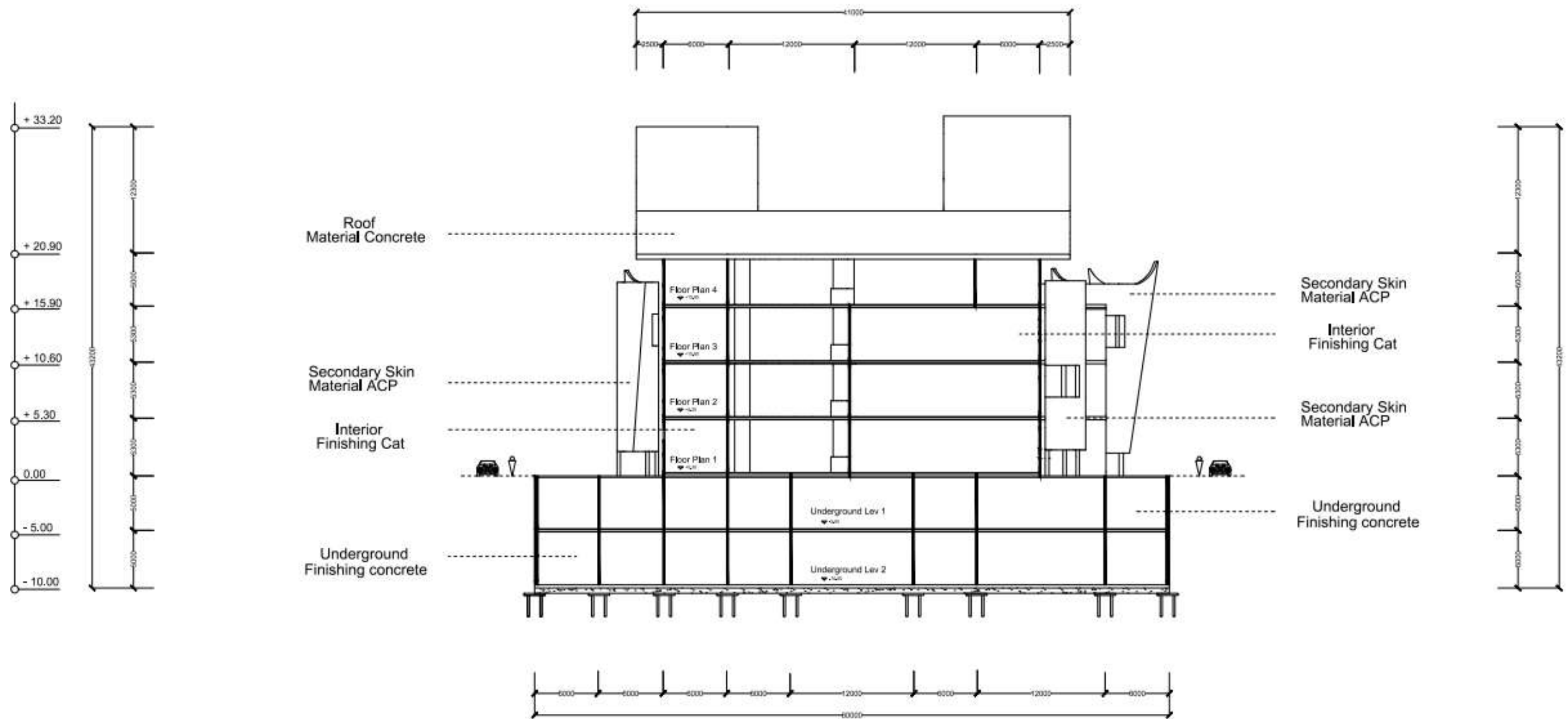
Section A5 - A5
Skala 1 : 200



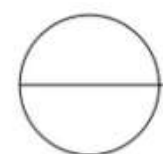
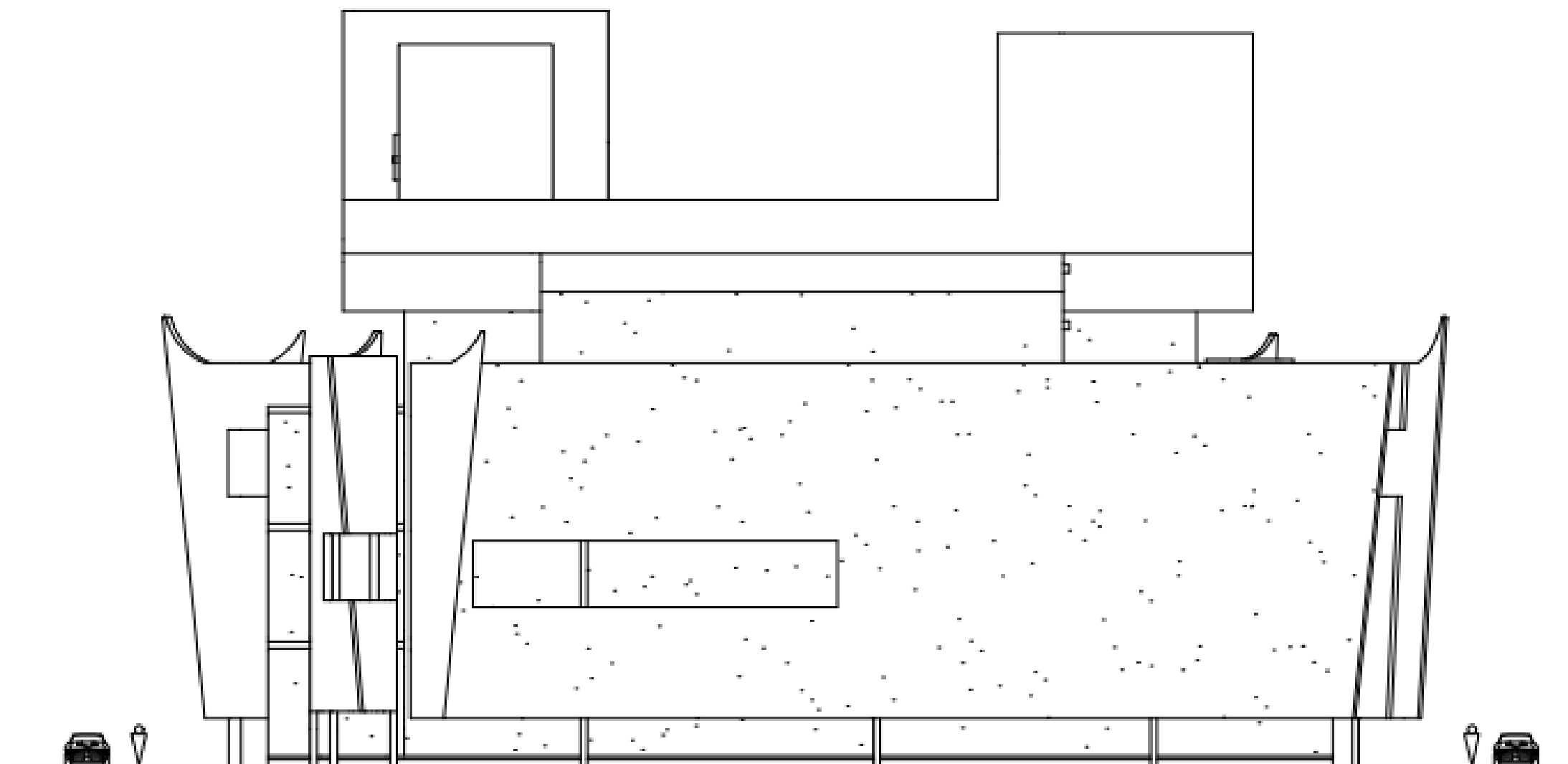

Section B5 - B5
Skala 1 : 200




Section C - C
Skala 1 : 200

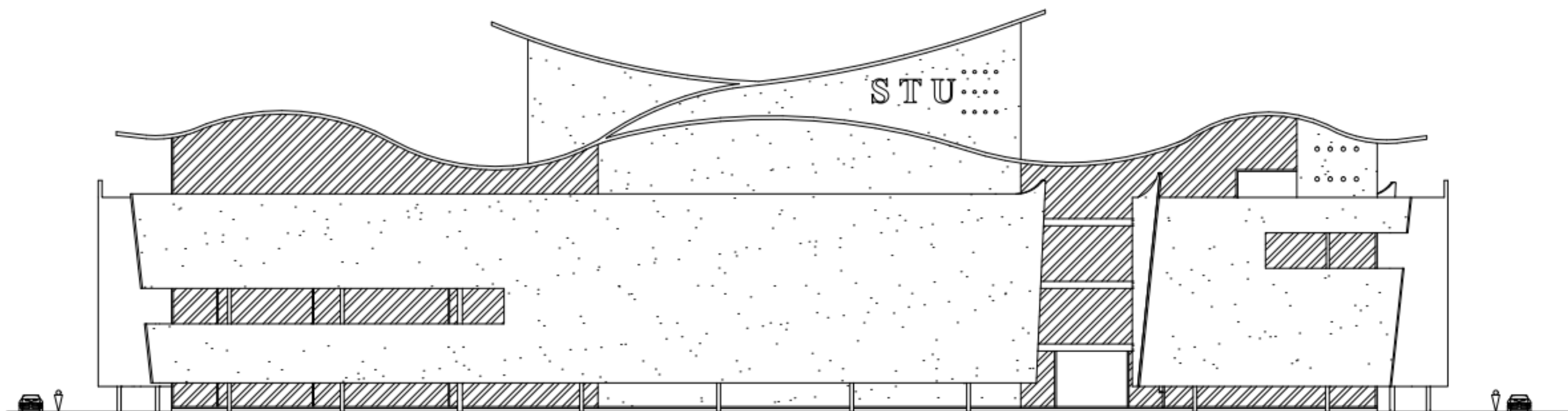


Section Q - Q
Skala 1 : 200



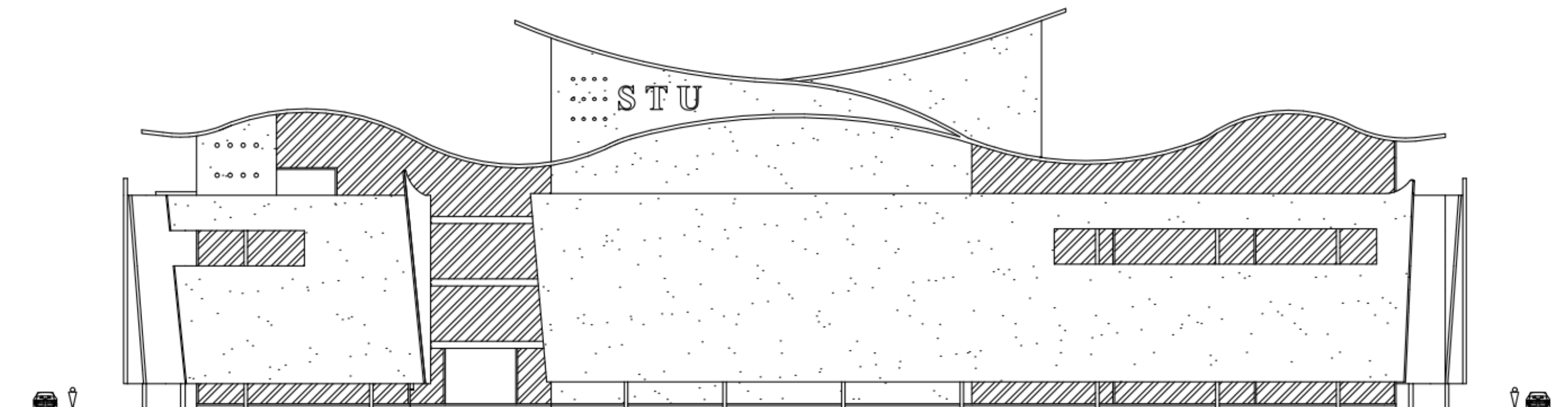
Elevation Side
Skala 1 : 200



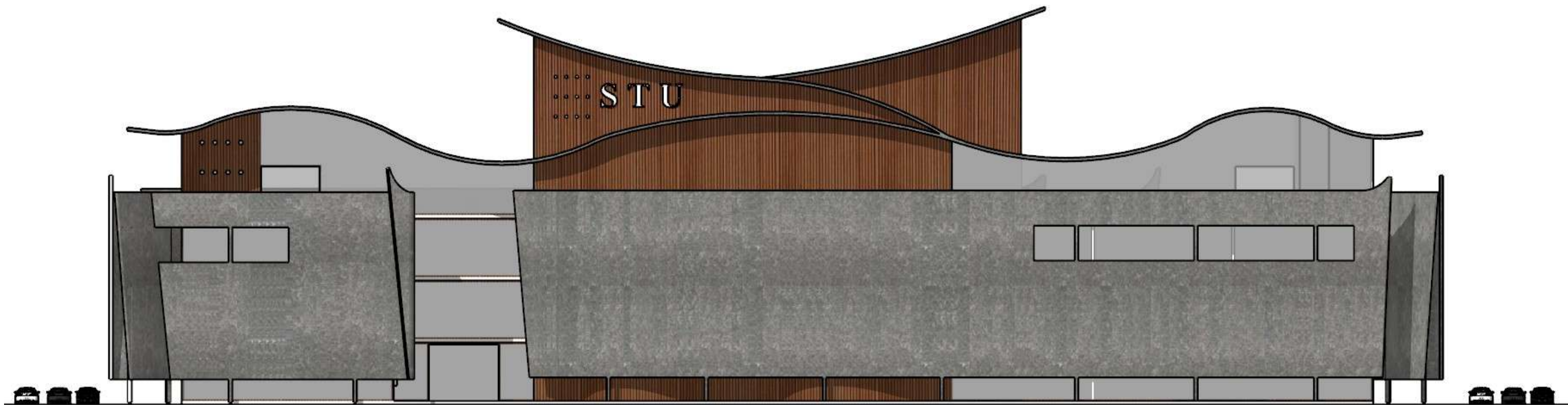


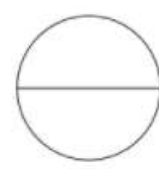
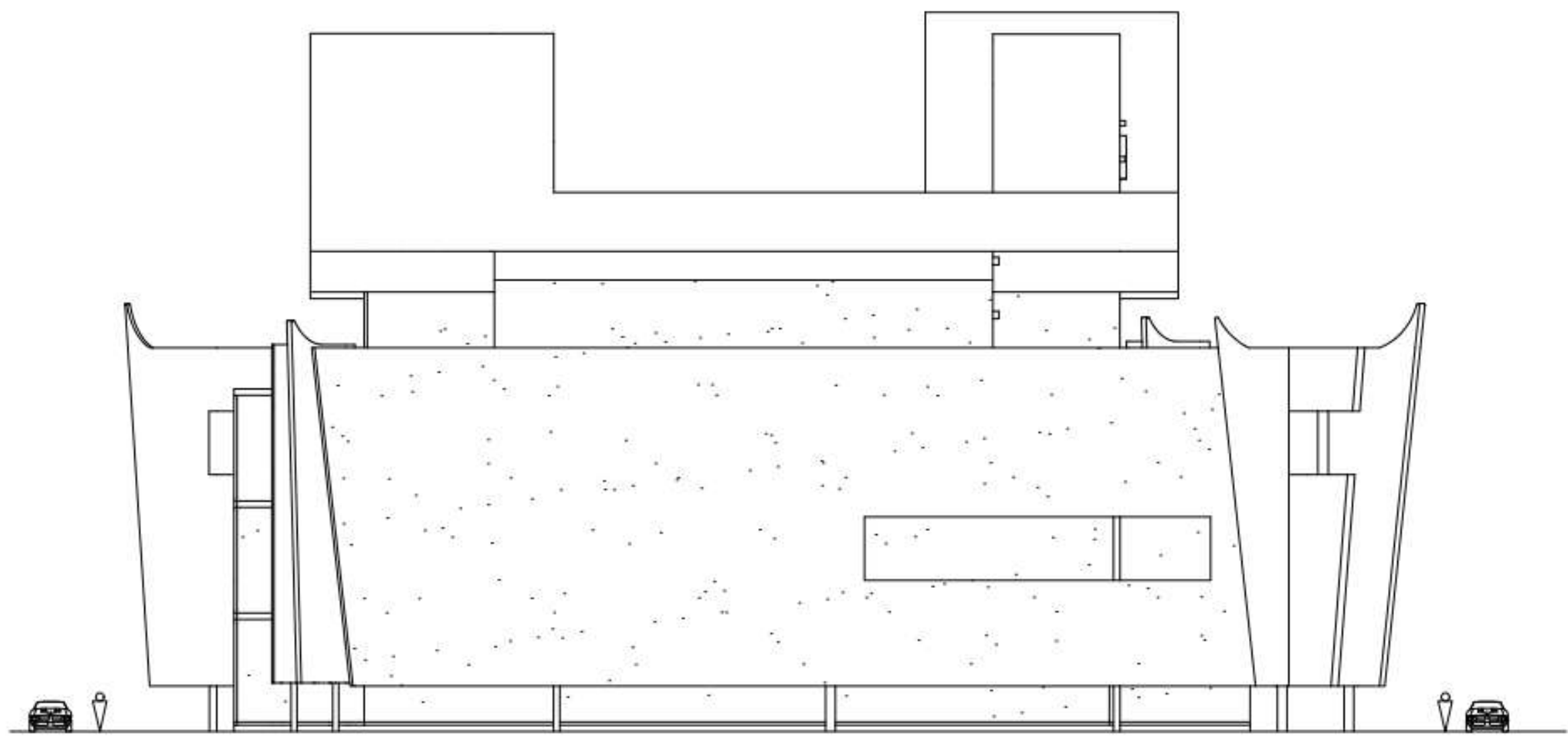
 Elevation Hind
Skala 1 : 200





Elevation Front
Skala 1 : 200





Elevation Side
Skala 1 : 200



Exterior









Interior

Classroom



Lobby



Classroom



Lobby



Meeting Room



Rector Room



Meeting Room



Rector Room



Presentation Center



Presentation Center



Presentation Center



Presentation Center

