

# 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 Profile



Project : Conceptual design of the STU campus  
 Location : Bratislava, Slovakia  
 Dimensions : 112 m x 200 m  
 Total Area : 22,400 m<sup>2</sup>



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.

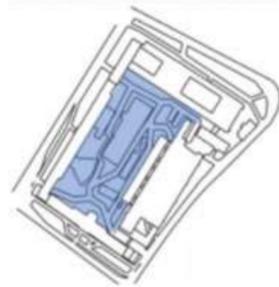
## Site Analysis

- High humidity level
- Low humidity level
- Moderate humidity level

### 4 Seasons in Bratislava, Slovakia



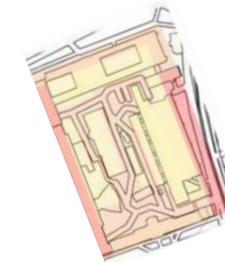
- Unhealthy
- Healthy
- Moderate



The area to be designed is almost rectangular.



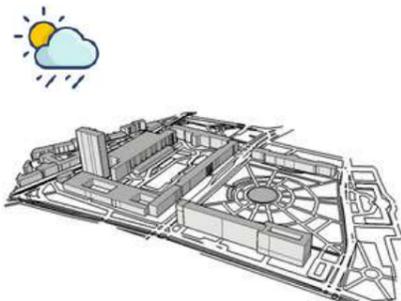
Humidity Level on site



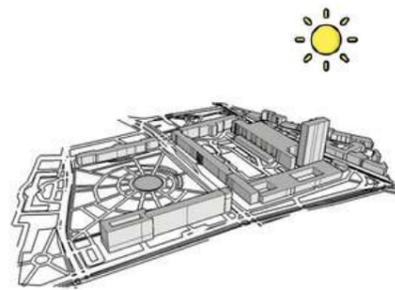
Air Quality on site



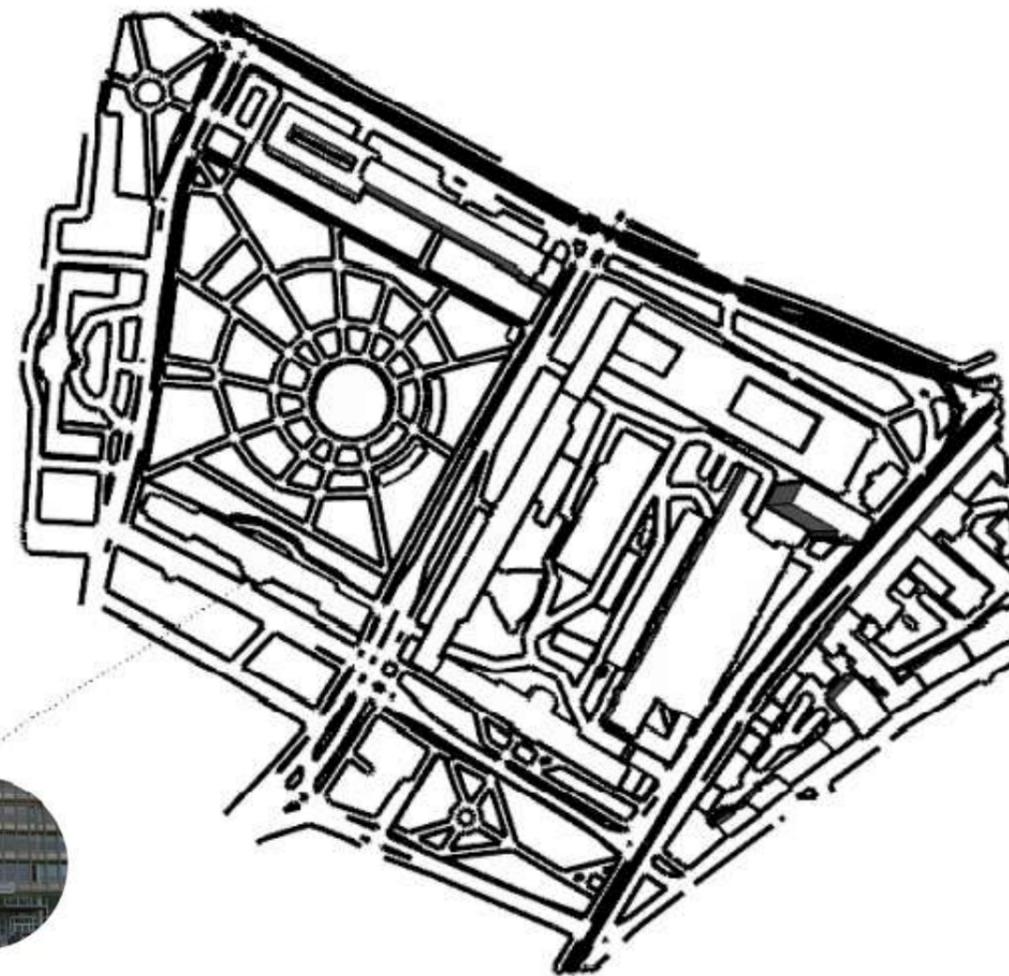
Placement of vegetation in the site area



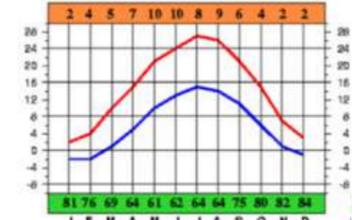
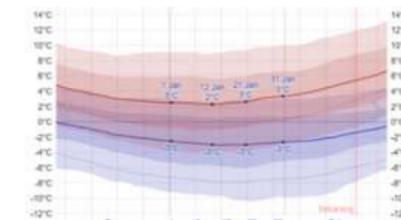
In general, the wind blows from the southeast to the northwest.



The sun rises slightly tilted to the southeast while sunset tends to the west.



Site View



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

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

## Tema

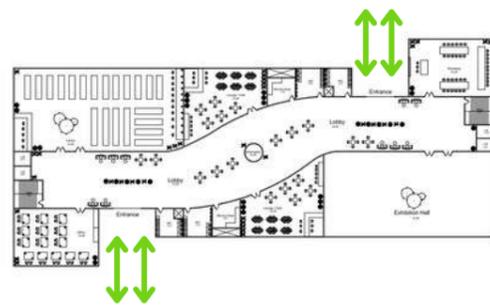
By using the Sustainable Theme, the building must have a design application that cares about the surrounding environment and does not damage the natural ecosystem. Some of the sustainable applications in buildings are the existence of an open green field with a large size, the building uses natural lighting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

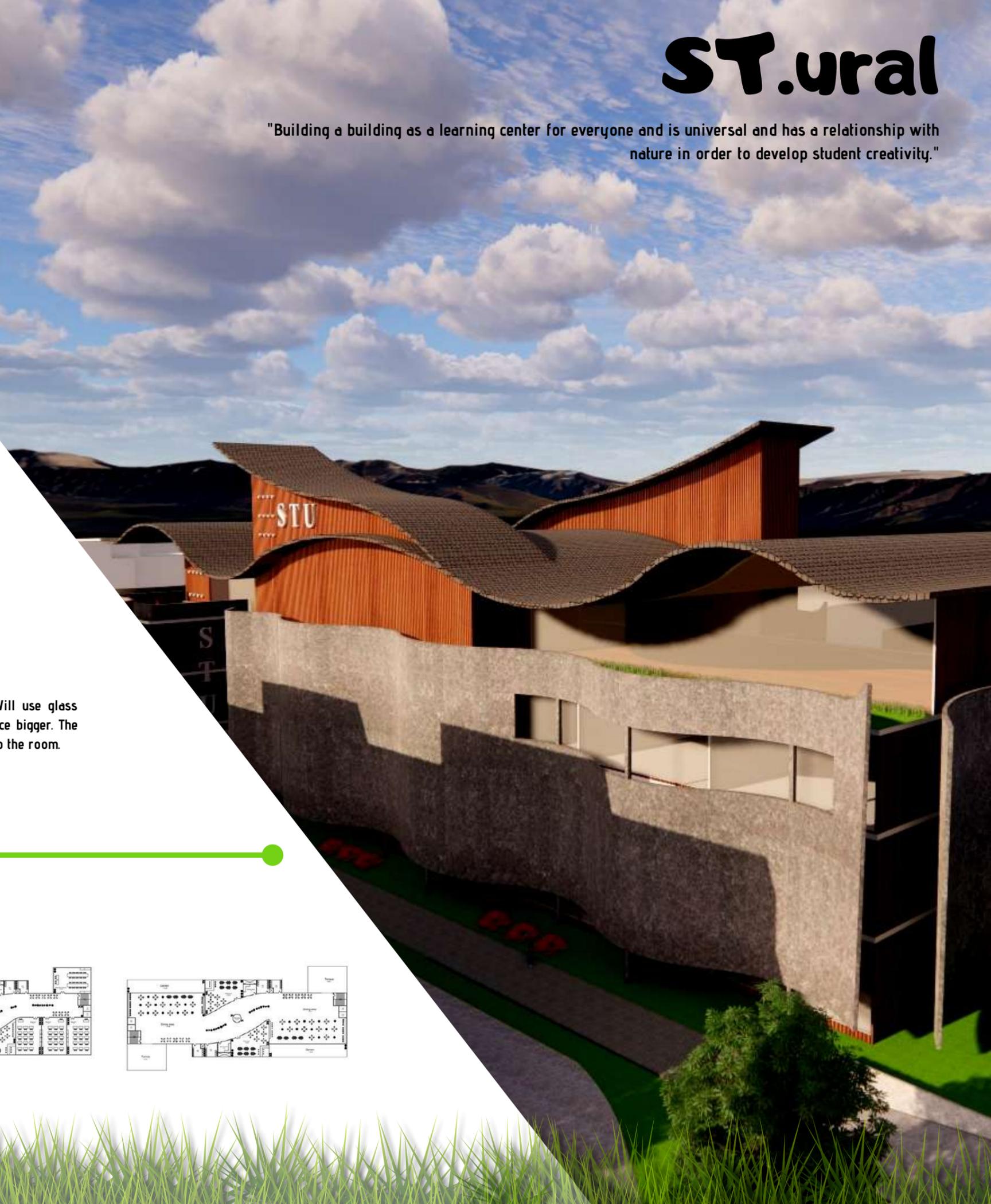
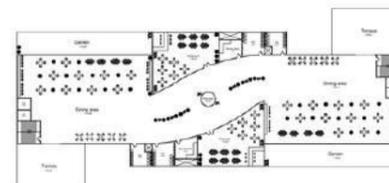
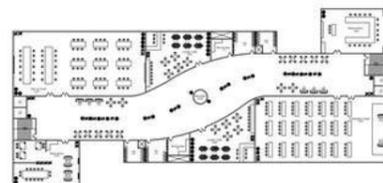


The concept of circulation uses linear circulation, namely a straight path that can be the main forming element of a row of spaces. Linear circulation only has 2 directions so that visitors are not confused in determining the direction.



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



# 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**

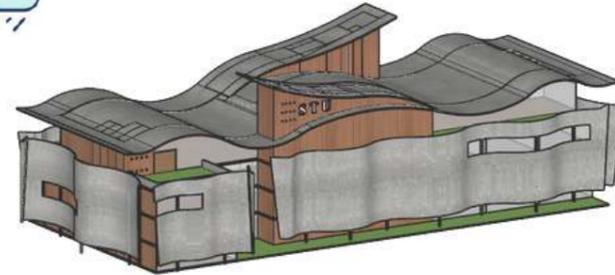
ST (Study) which means to study, means that STU is a place for learning from all walks of life and is universal.

**ST.u**

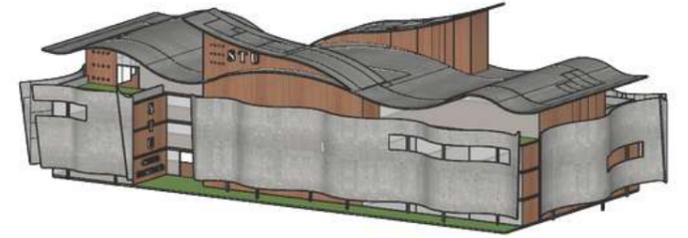
STU which stands for (Slovak Teknik universitesi) is the building to be designed.

**.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.



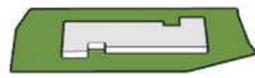
The sun rises slightly tilted to the southeast while sunset tends to the west. In the morning, the building will receive direct natural light and during the day there will be shadows around the STU.

## Circulation Concept



**Fisrt step**

Make a box base



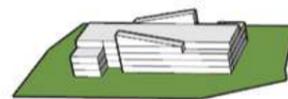
**Cut And From**

Cutting the base shape



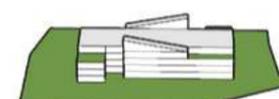
**Extrude**

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**



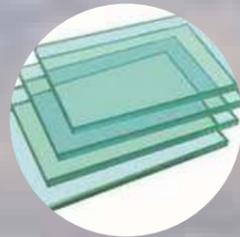
## Interior

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 Requirement

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

## Material

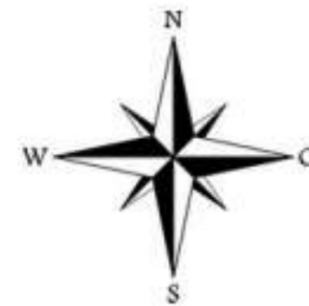


**Rector Room**

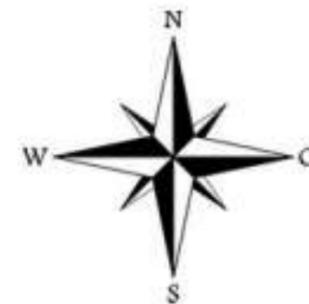


**Presentation Center**





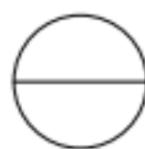
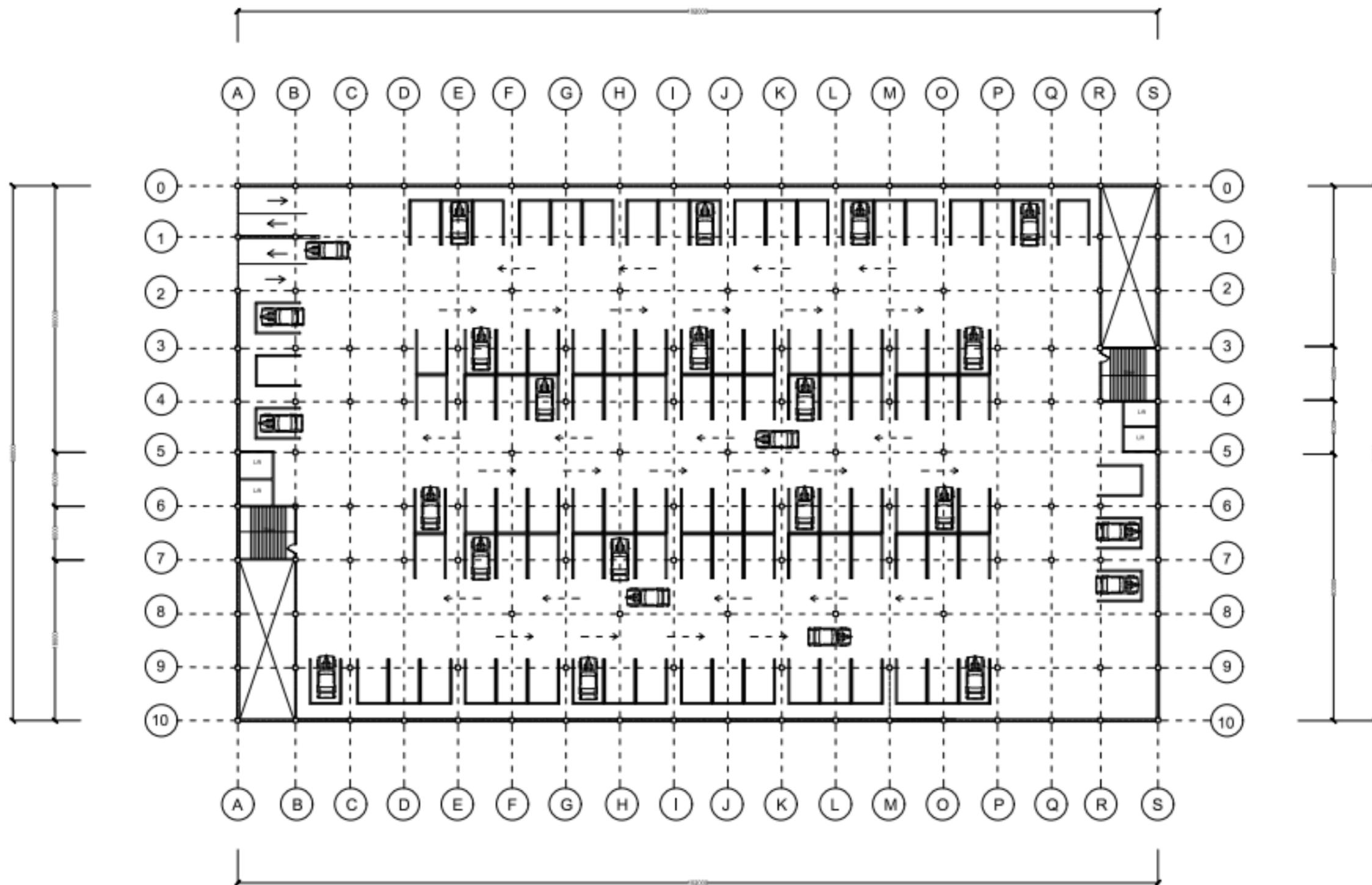
Site Plan  
Skala 1 : 500



Site Plan  
Skala 1 : 500

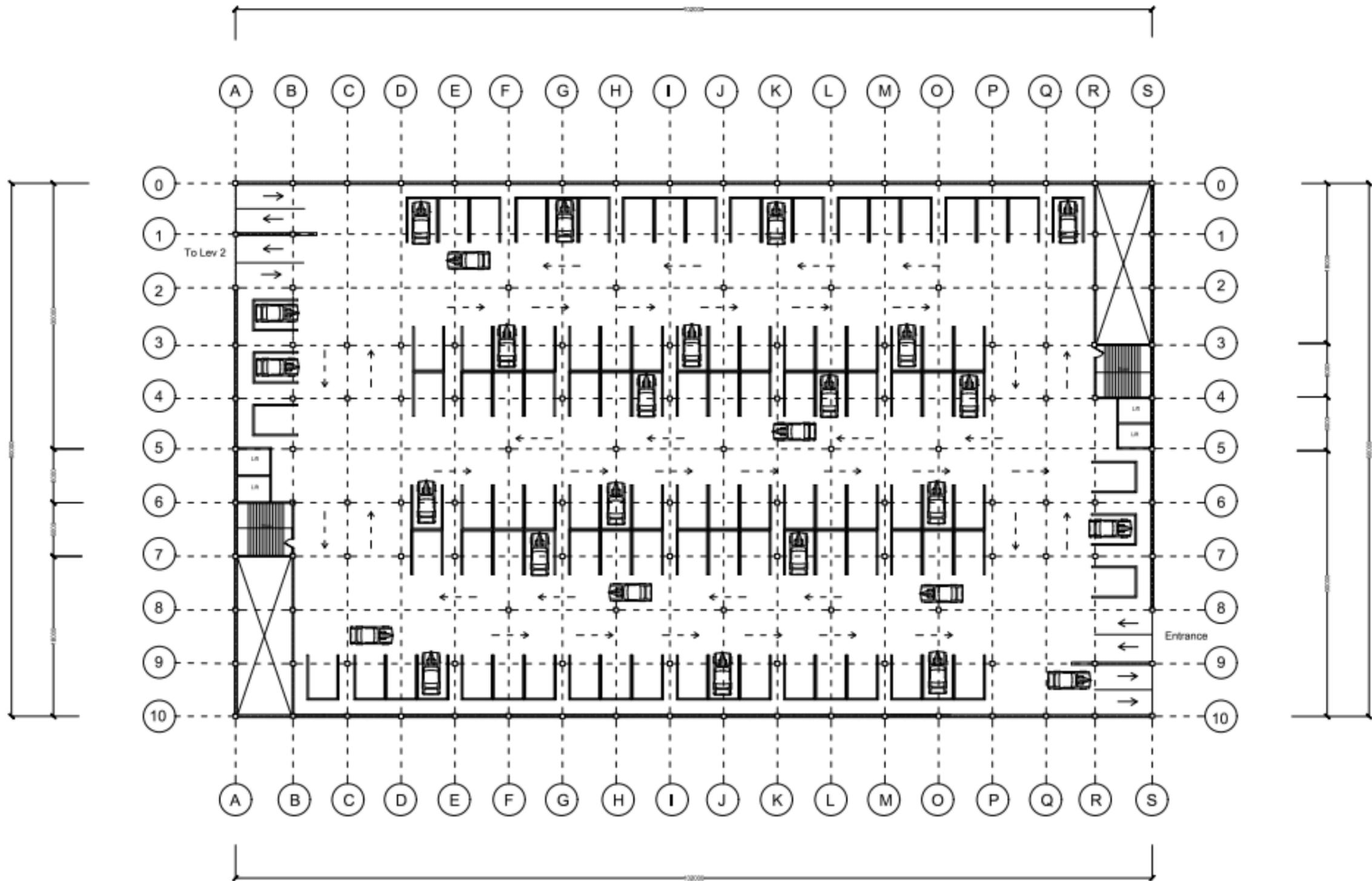


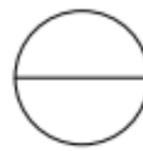
Layout  
Skala 1 : 500



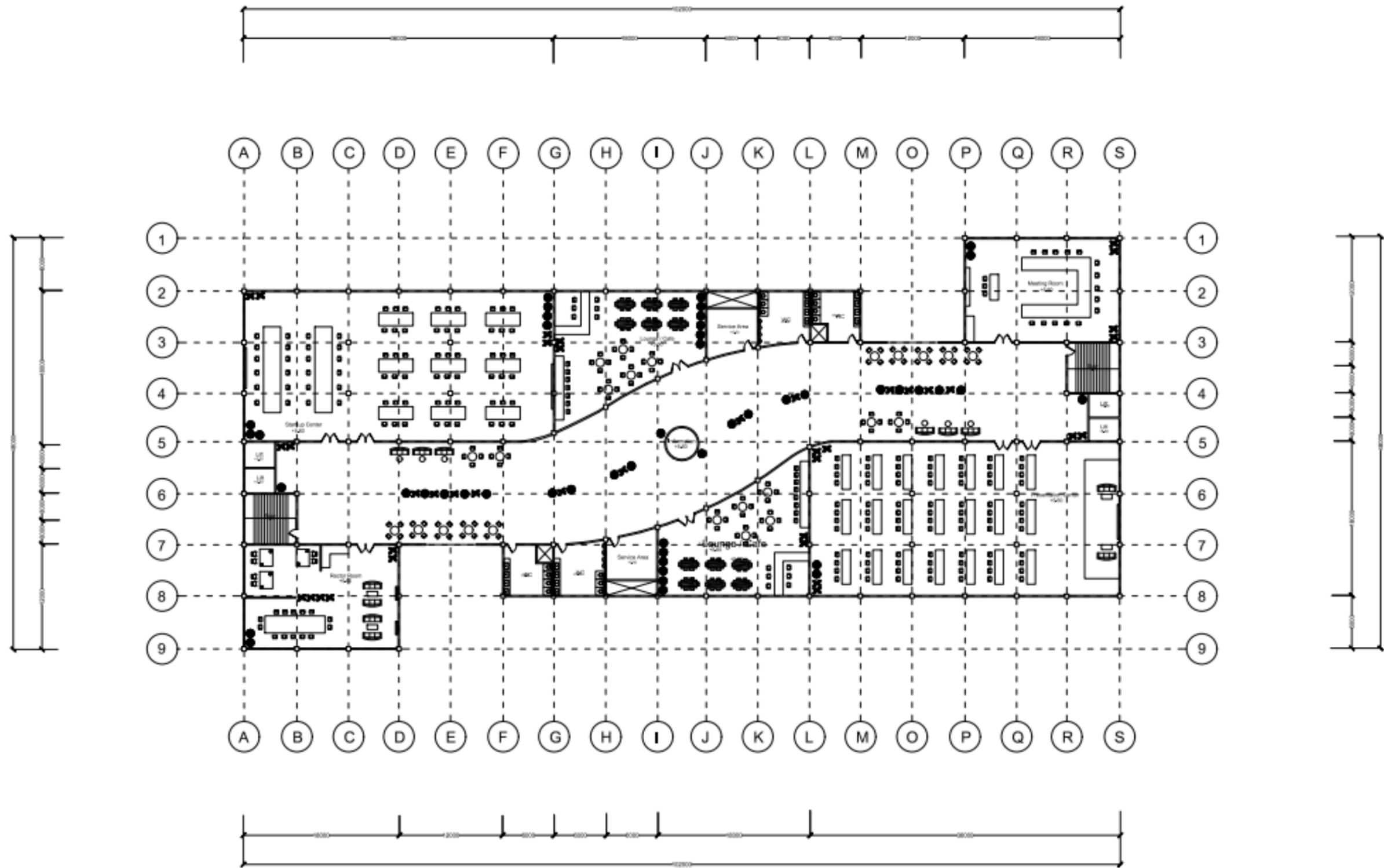
Underground Column Plan Lev 2

Skala 1 : 200

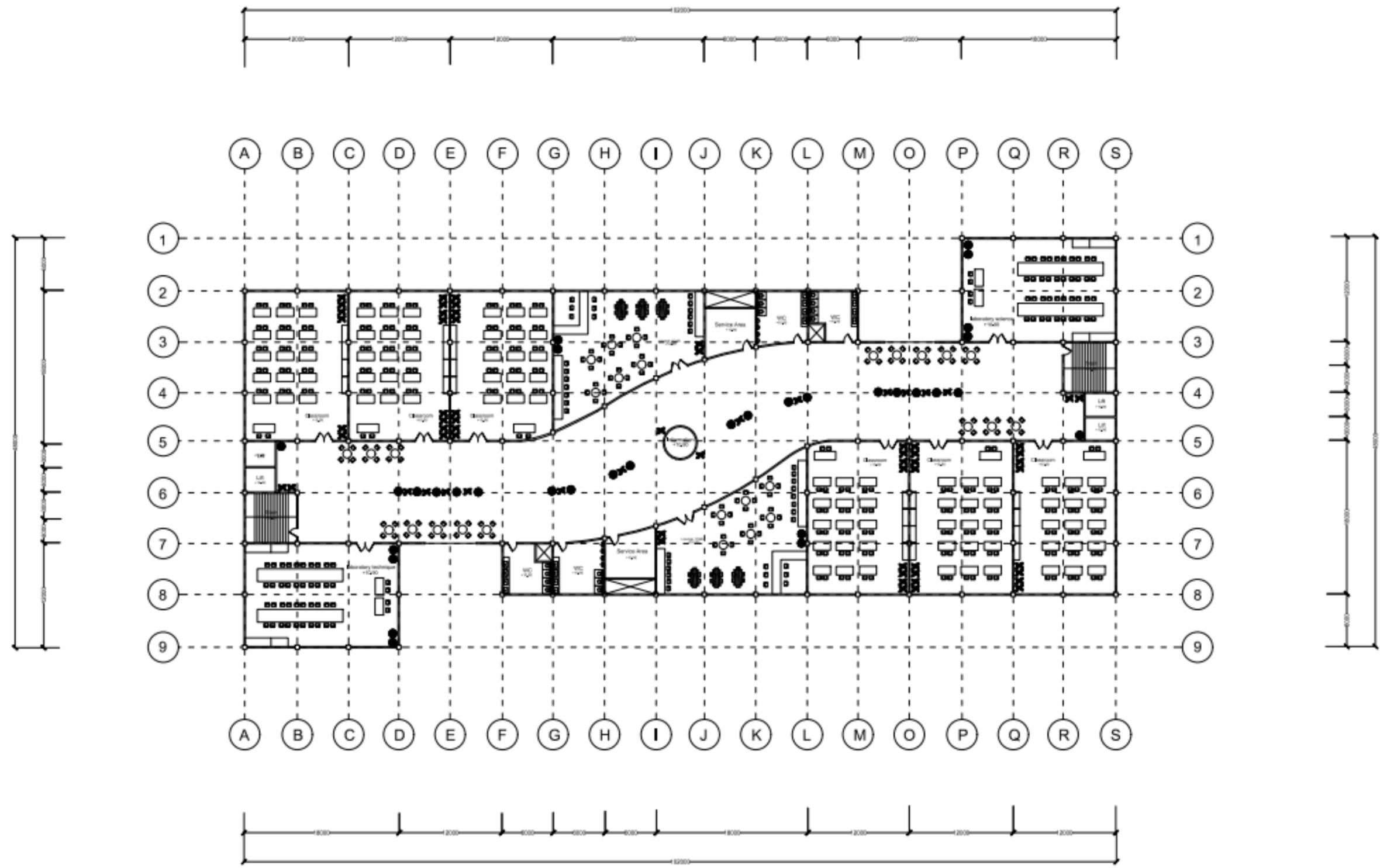



**Underground Column Plan Lev 1**  
**Skala 1 : 200**

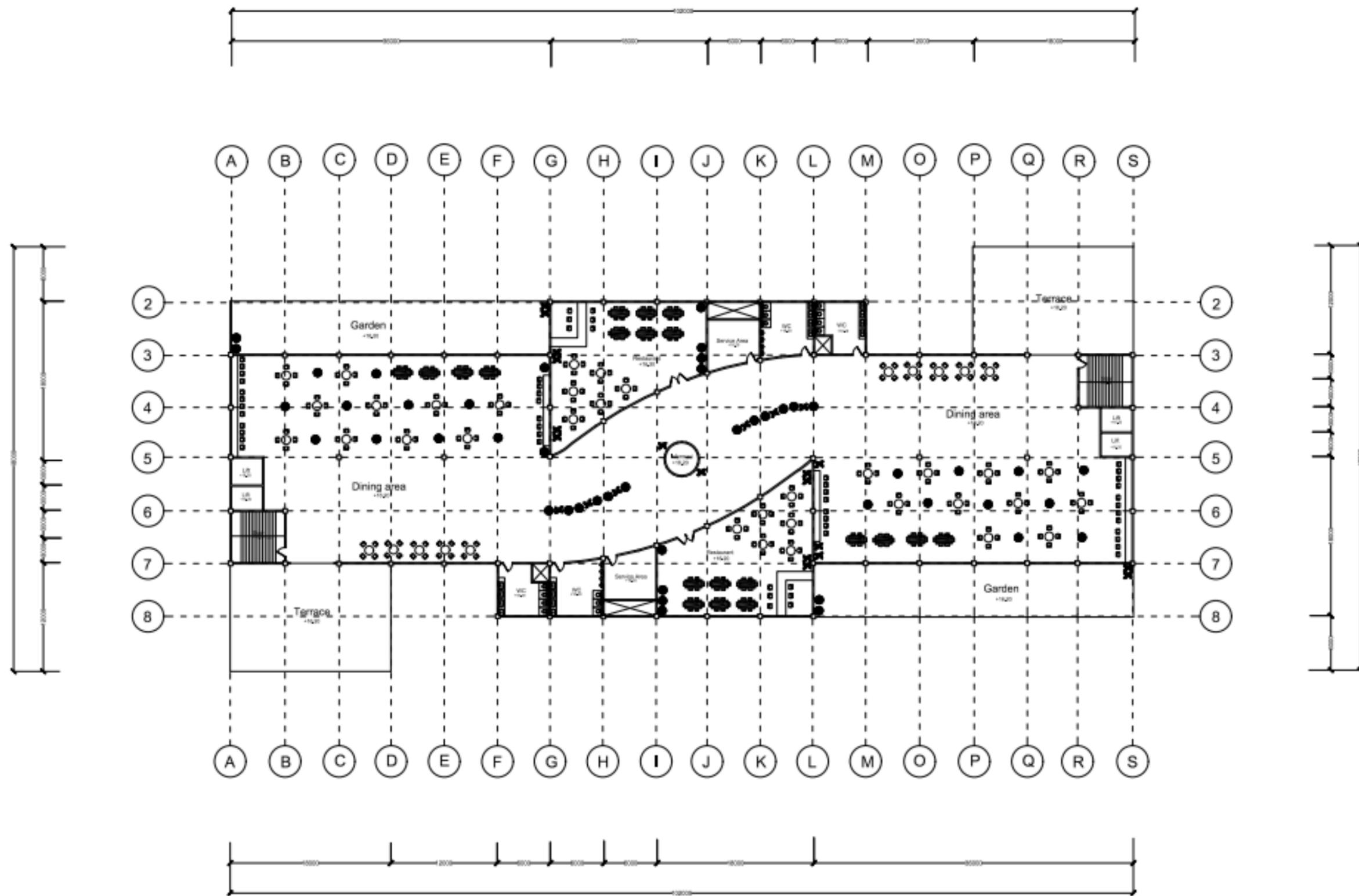


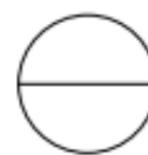



**Column Plan 2**  
 Skala 1 : 200

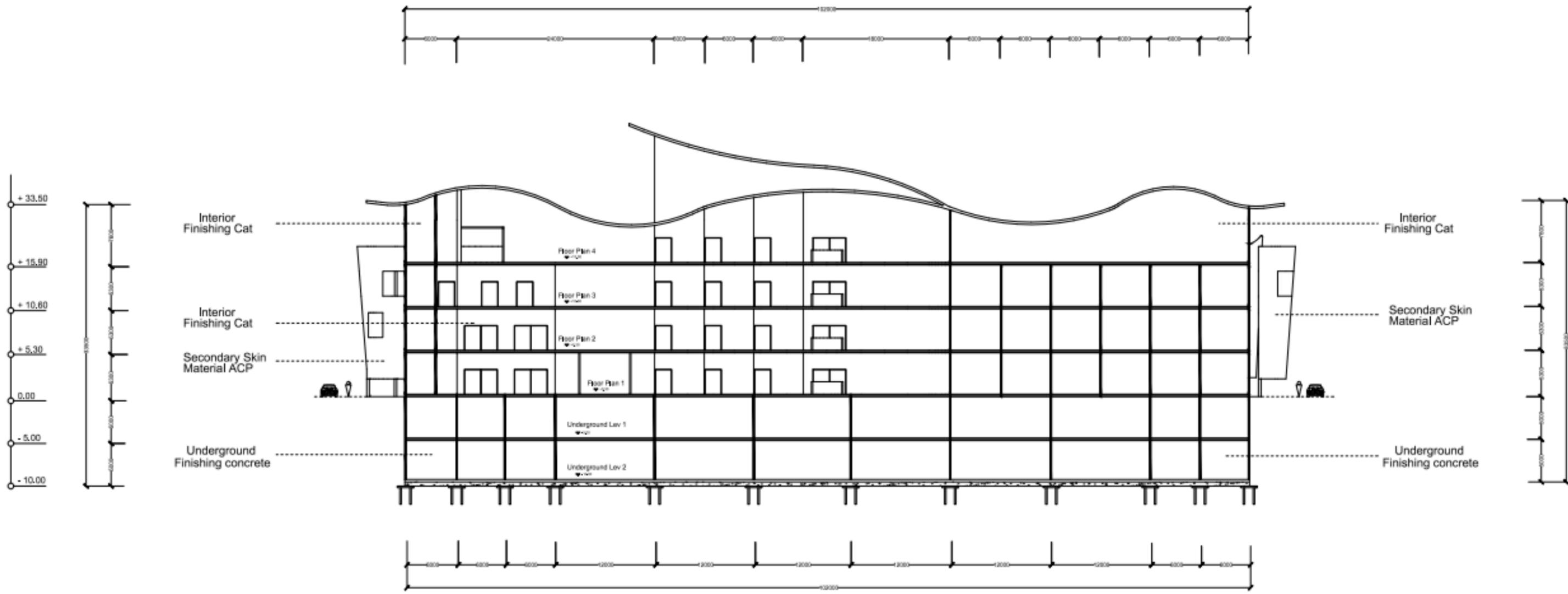


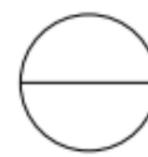

**Column Plan 3**  
**Skala 1 : 200**



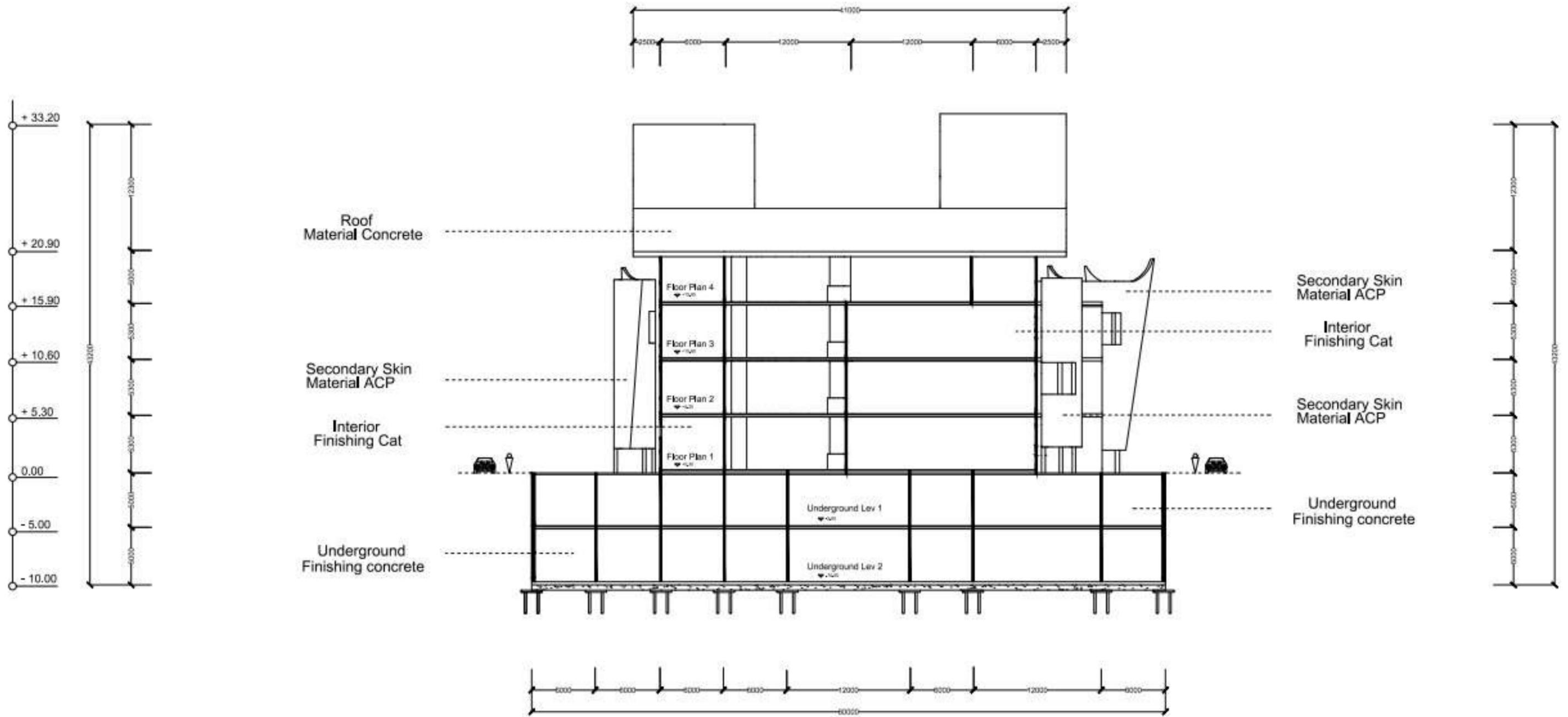

**Column Plan 4**  
**Skala 1 : 200**

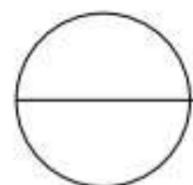


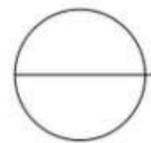
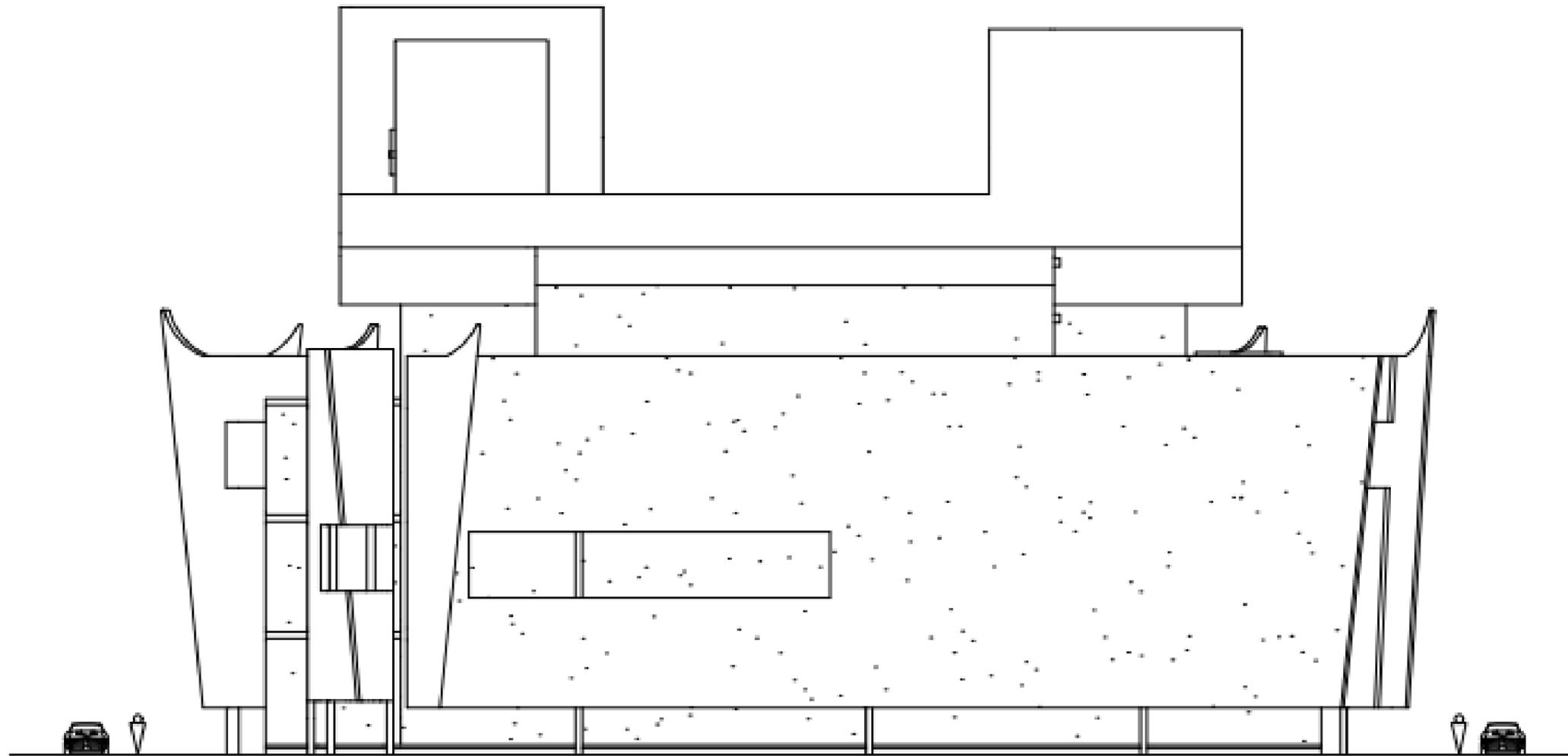



**Section B5 - B5**  
**Skala 1 : 200**



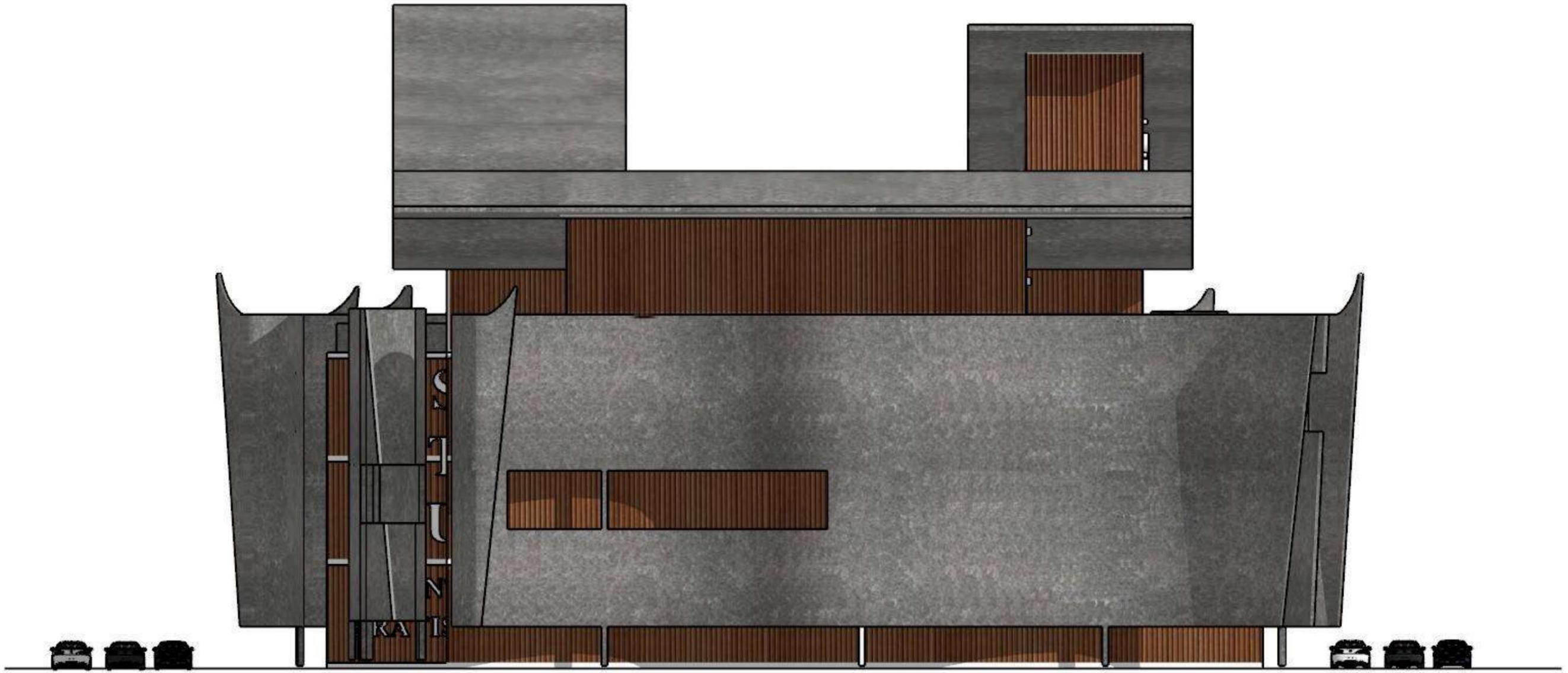


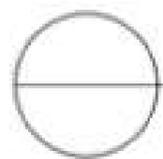
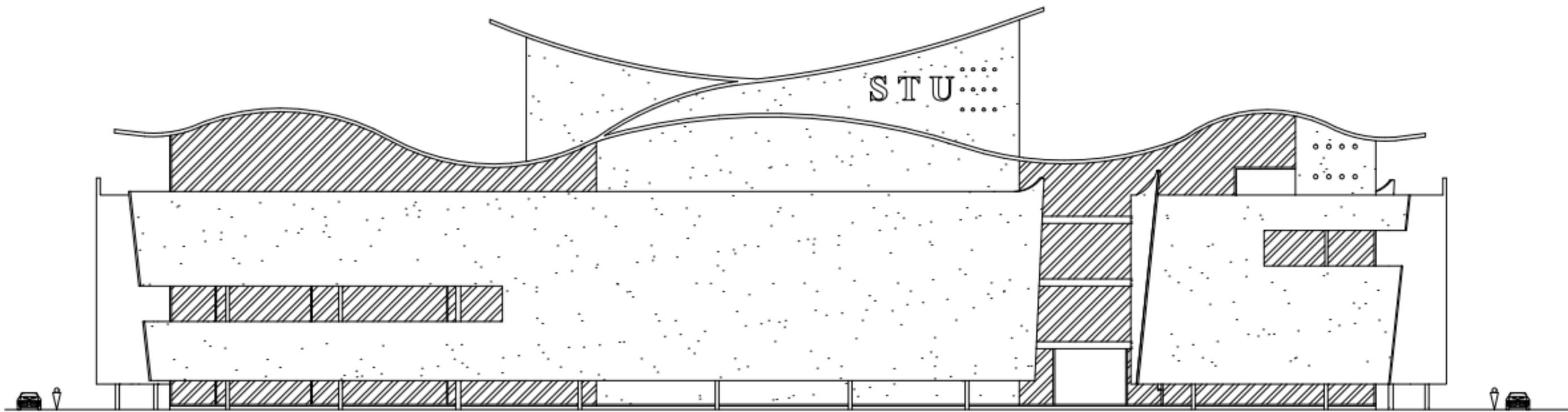

**Section Q - Q**  
**Skala 1 : 200**



Elevation Side

Skala 1 : 200

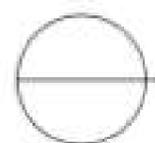
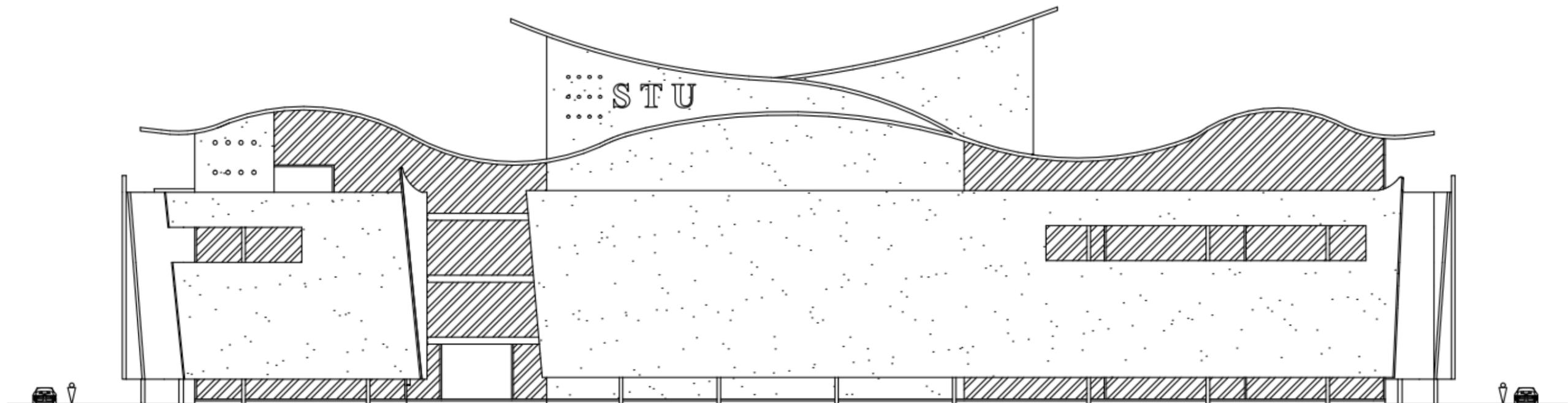




Elevation Hind

Skala 1 : 200

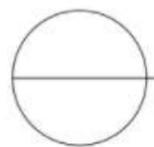
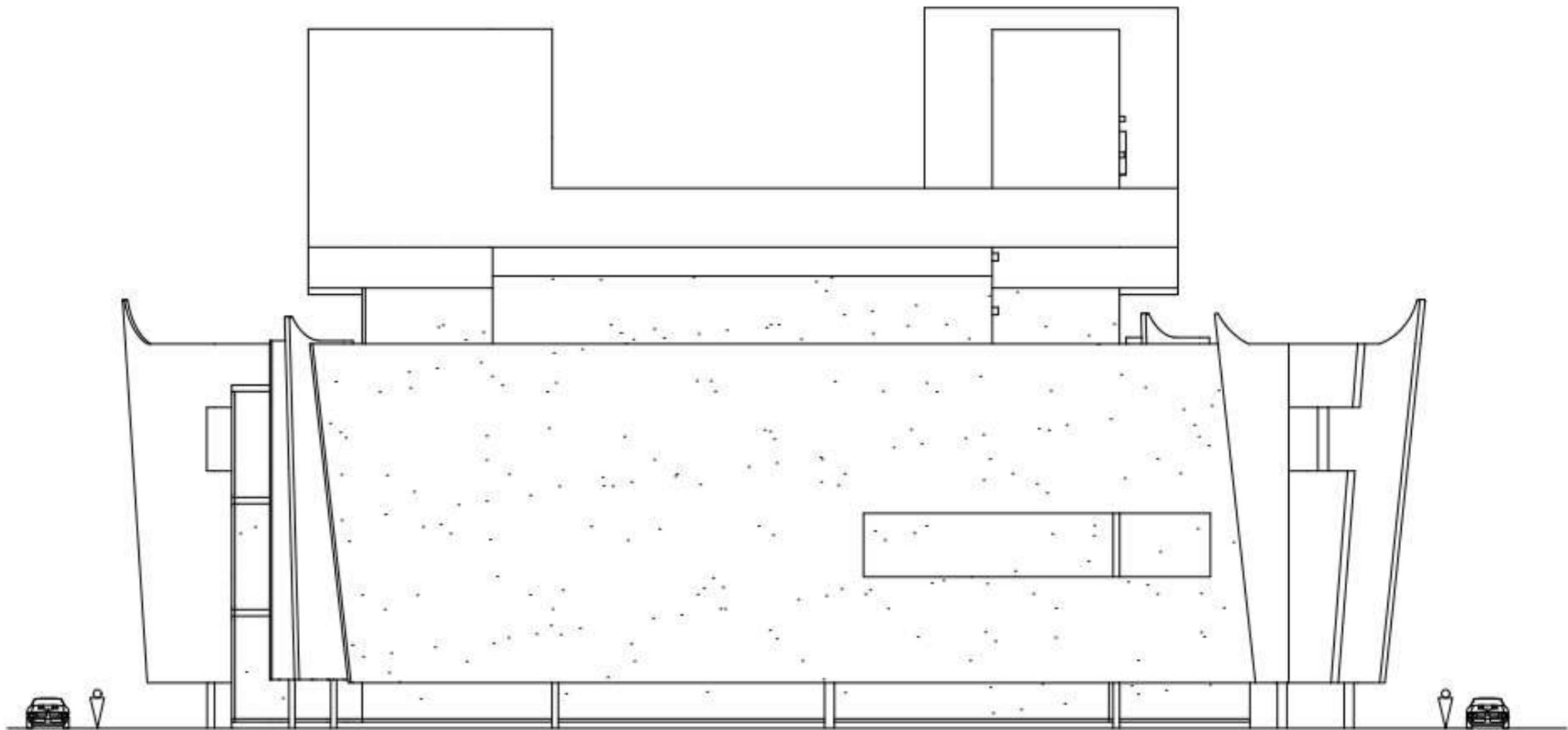




Elevation Front

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**

