

Navodaya vidyalaya, khairabad

the action or trade of  
constructing something.

I'll repeat phrases over  
and over in a spiral and  
use the shape to design  
a building. Would you  
rent office space in my  
I Love You Towers?

## Analysis

a plan or drawing produced  
to show the look and function  
or workings of a building,  
garment, or other object  
before it is made.

PRAGYA SINGH

Design

Portfolio

01 OFFICE BUILDING

02 HILLSIDE VILLA

03 MULTISPECIALITY HOSPITAL

04 BEACHFRONT APARTMENT

05 LIVING AREA

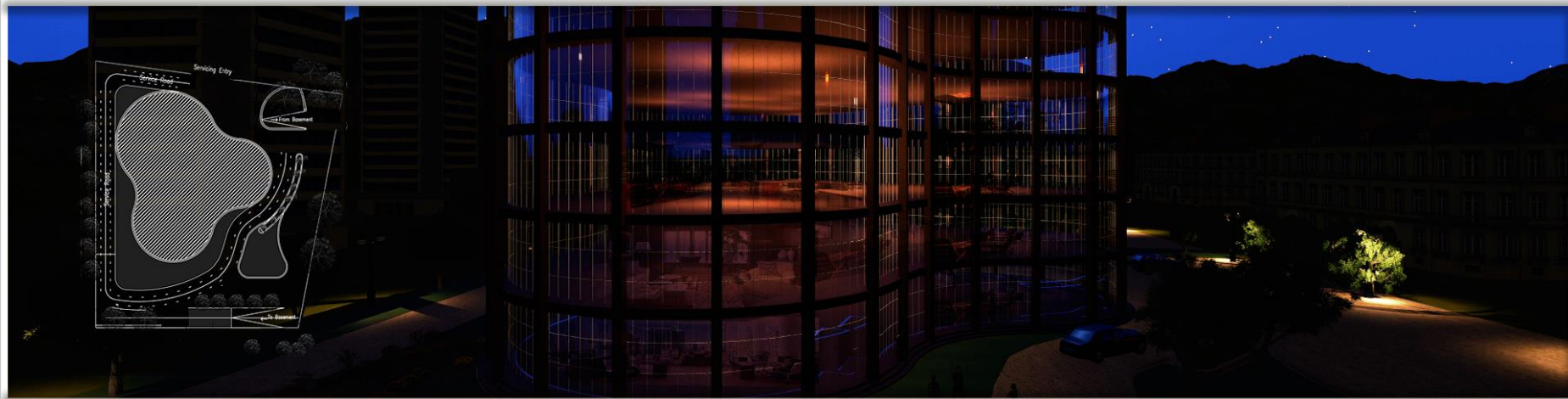
06 HAND DRAFTING

07 WORKING DRAWINGS

08 Architectural PHOTOGRAPHY

09 PENCIL SKETCHING





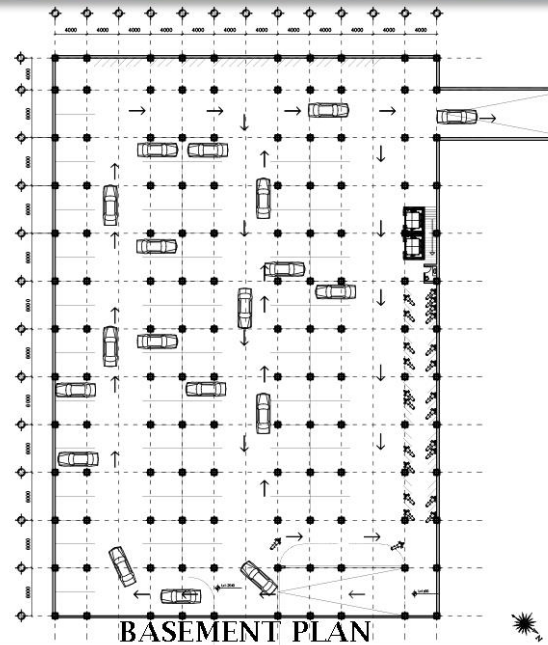
# 01 OFFICE BUILDING

Area- 1600 sq.mt.

Location- Delhi

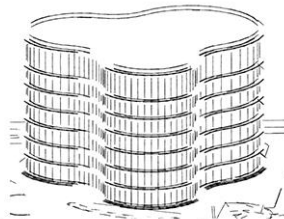
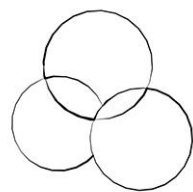
Semester V 2015

Softwares Used- Autocad (Plan & 3D)+Lumion+Photoshop

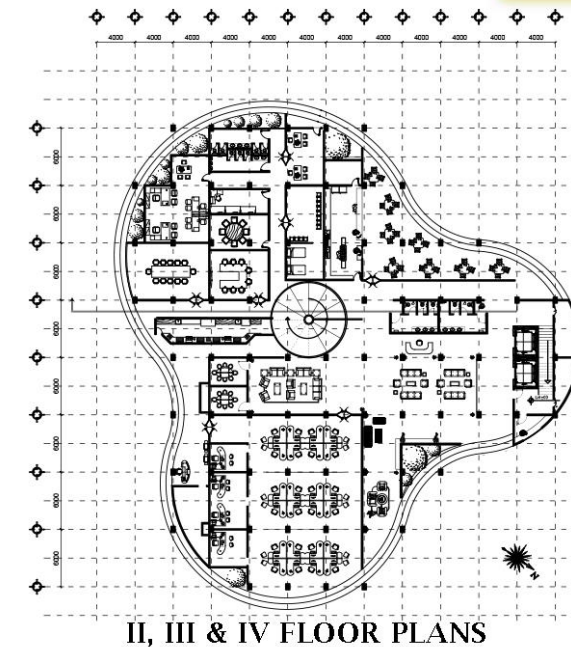
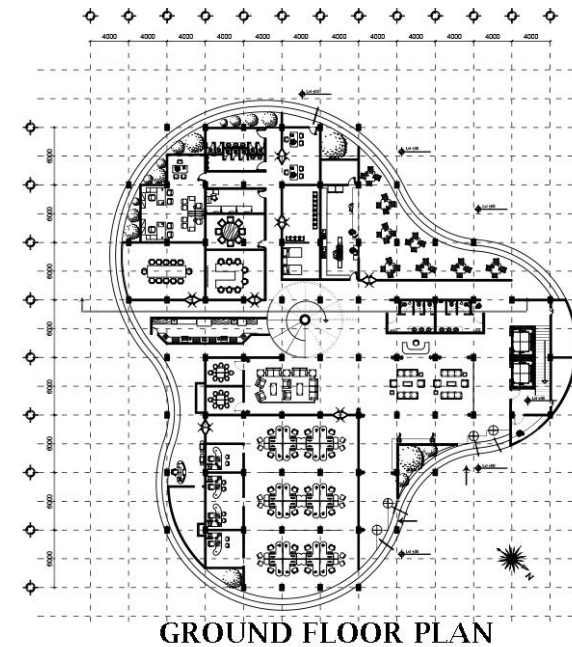


## Concept

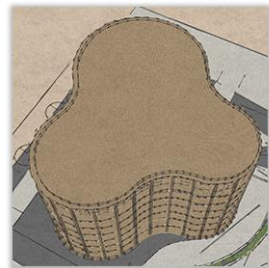
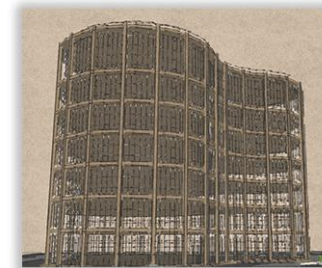
The concept is to construct a shape from geometrical shape i.e. circle and fuse to get an organic shape. The building elements are curtain wall, interior landscaping, spiral staircase.



The basement consists mainly of parking and is connected to other floors through services. The ramp opens up to the setback areas to avoid the collisions of vehicles. For servicing vehicles, a separate entry is provided.



The Curtain wall is structured with the help of wooden piers which is actually not a structural element.

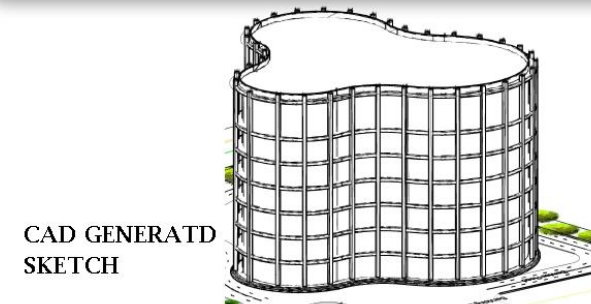


The ground and first floor plans consist of reception, accounts, formal and informal meeting areas, conference rooms, AV room, IT department, media room, cafeteria with kitchen and a pantry.



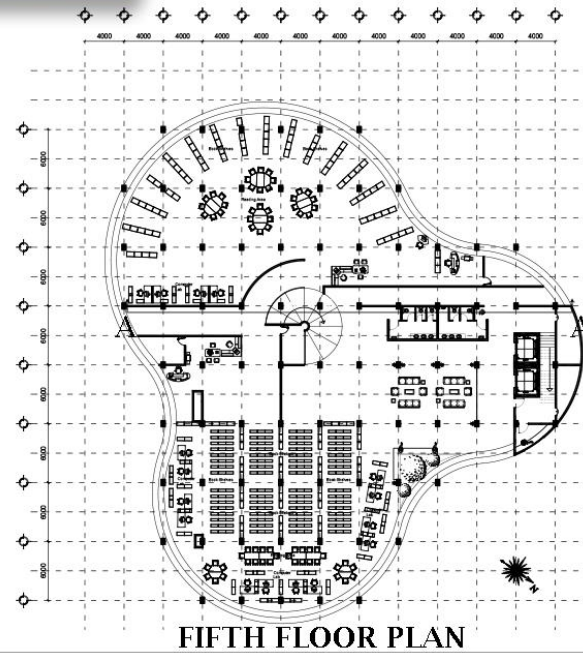


Landscaping element is used in both indoor and outdoor areas. As the site is located in Delhi in a crowdy areas, to control the temperature at some places, landscaping pockets are inserted.

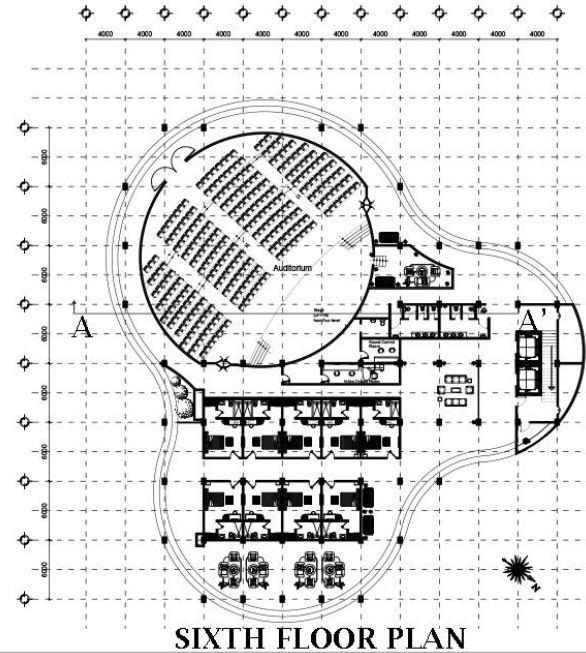


CAD GENERATD SKETCH

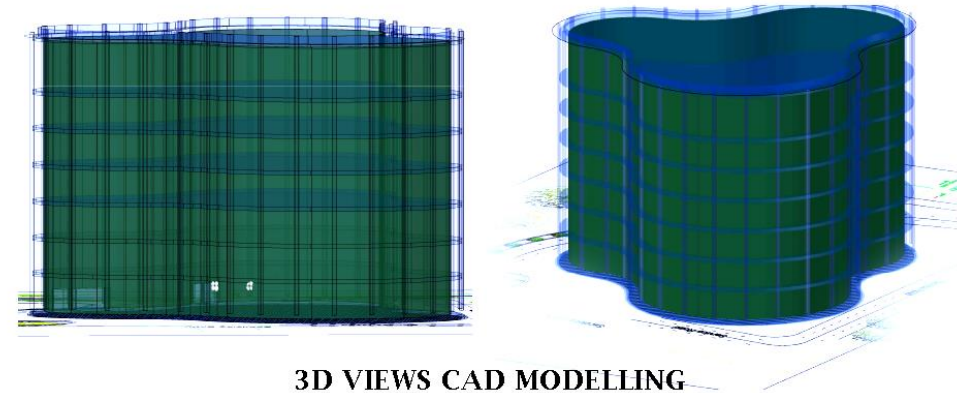
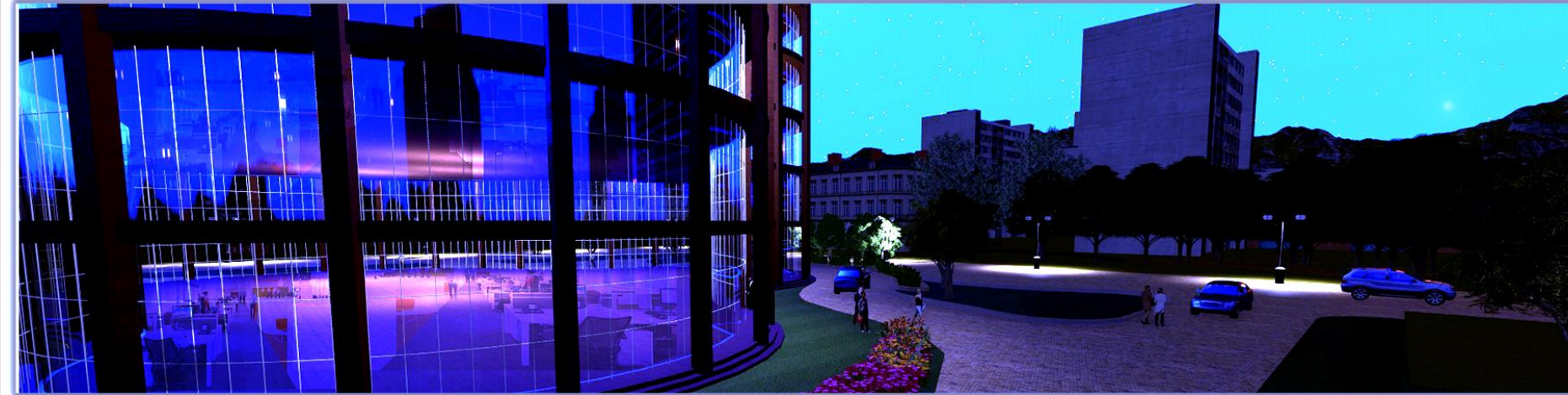
The grid is of 4X3 metre. The upper two floors consist of library and auditorium with accomodation. As a sound barrier, walls are doubly insulated to resist the noises on the sixth floor. Also, meeting areas are provided.



FIFTH FLOOR PLAN

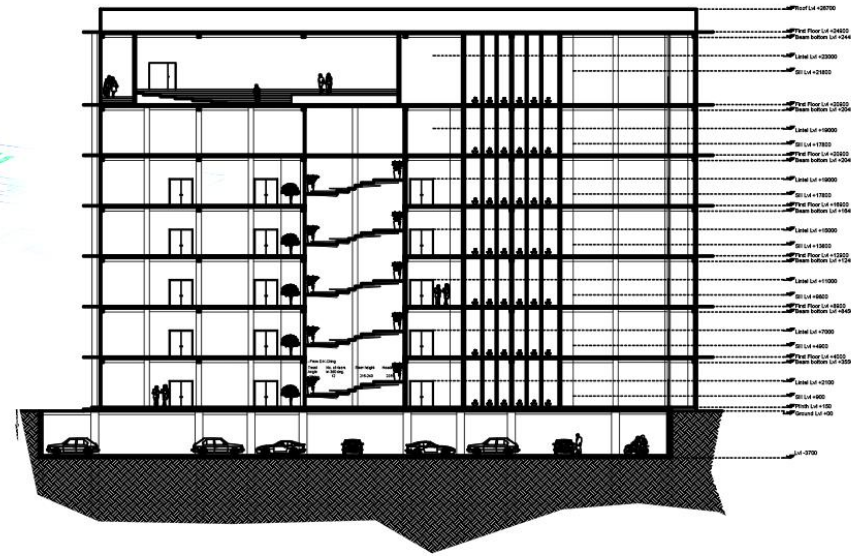


SIXTH FLOOR PLAN



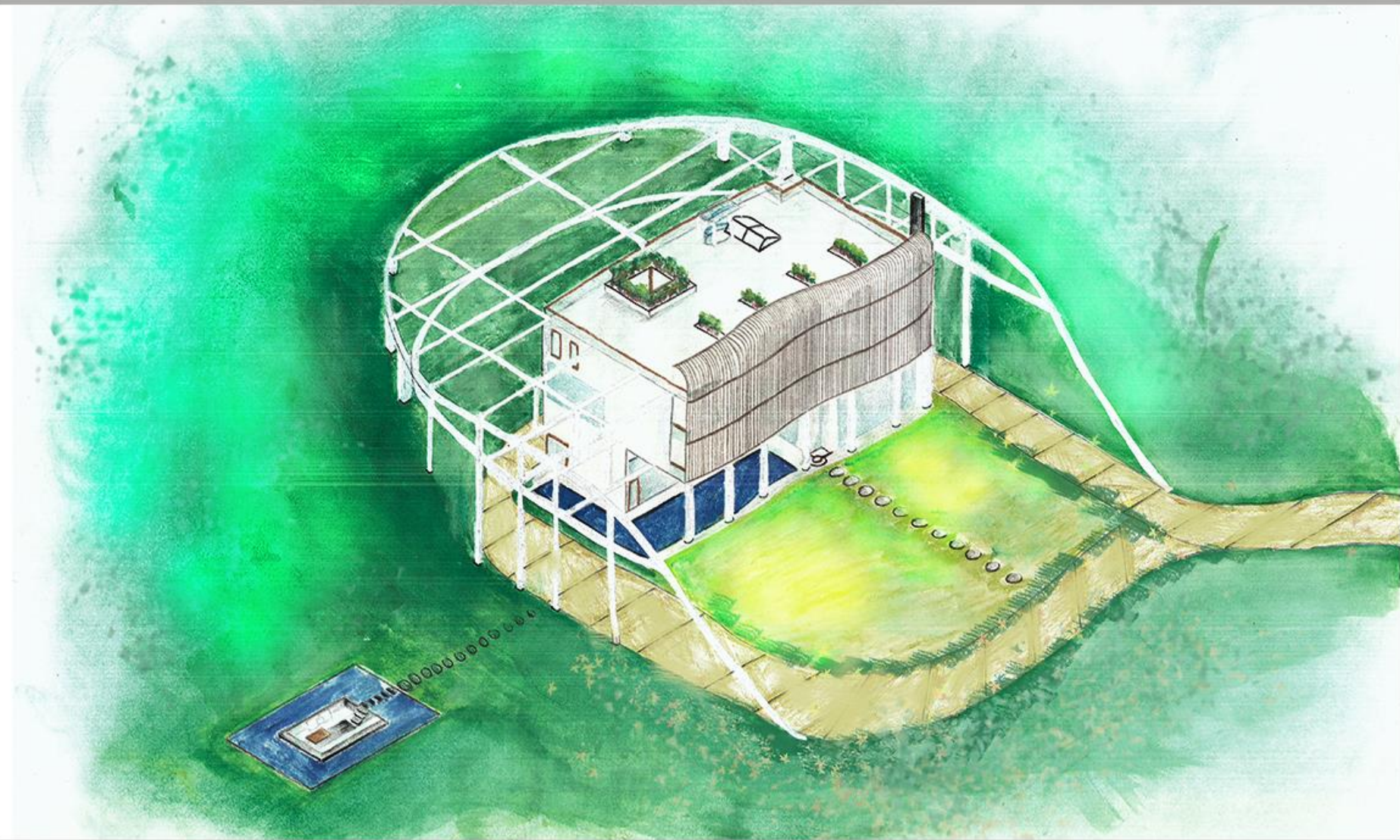
3D VIEWS CAD MODELLING

The height of the building is 30 metre. The top floor consists of auditorium and fifth floor is a central library. The planning of the building is negligibly affected by the outer facade.



SECTION AA'





# 02 HILLSIDE VILLA

**Site Area - 3110 sq. mt.**

**Location- Mansuri, Uttarakhand**

**Semester IV 2014**

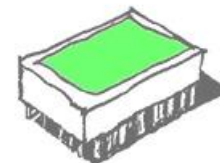
**Hand-drafted Work**

## Concept

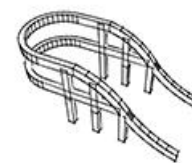
**Modern Architecture using Le Corbs points.**  
**Elements used are- Aluminium bars (louvred facade), pilotis, roof garden, elliptical structure, Helical Stairs.**  
**The structural system is completely exposed.**



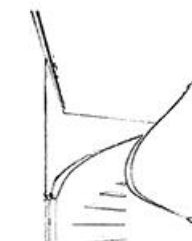
Pilotis



Roof Terrace



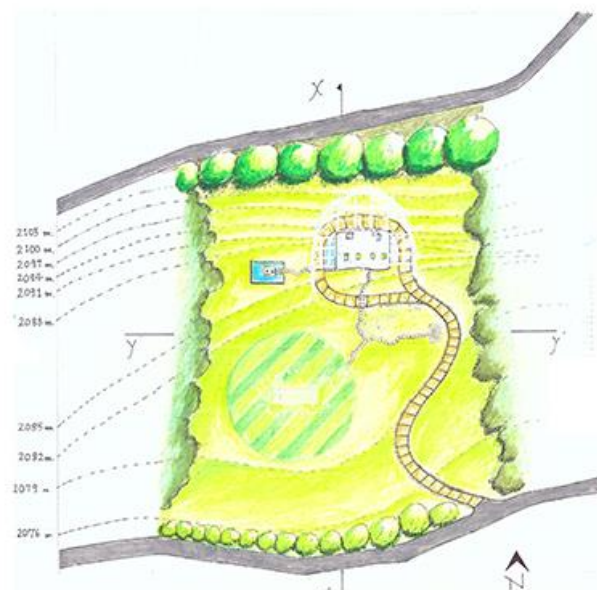
Elliptical Structure



Helical Stairs



Entrance foyer stairs

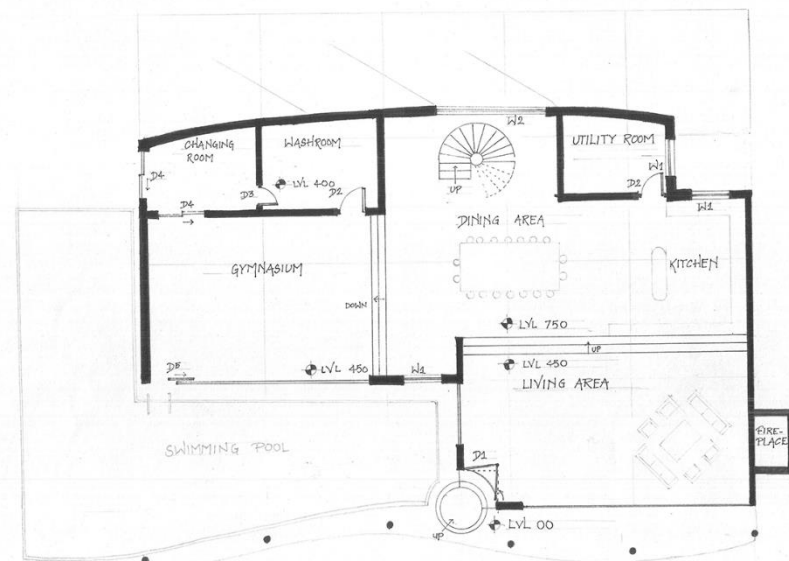


Site Plan



Site Section

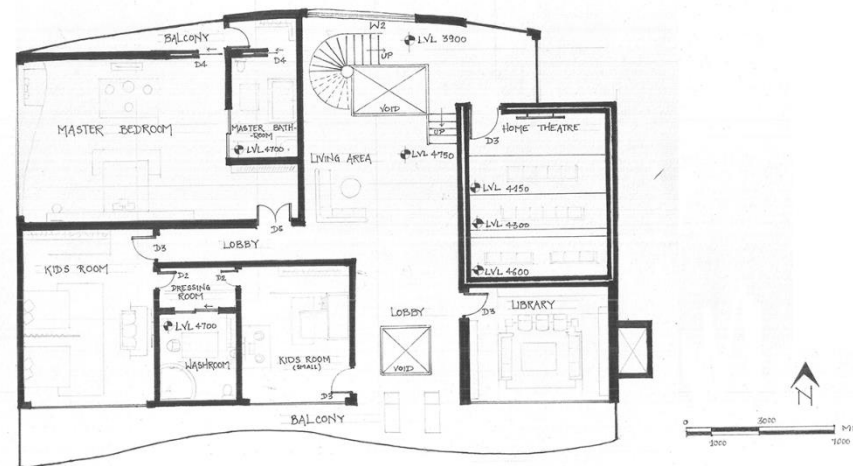




GROUND FLOOR PLAN

The entrance foyer consists of a swimming pool, a small roundabout dividing the external facade.

The Villa opens to living area, levels up to food area and adjacent to gym connected to swimming pool.



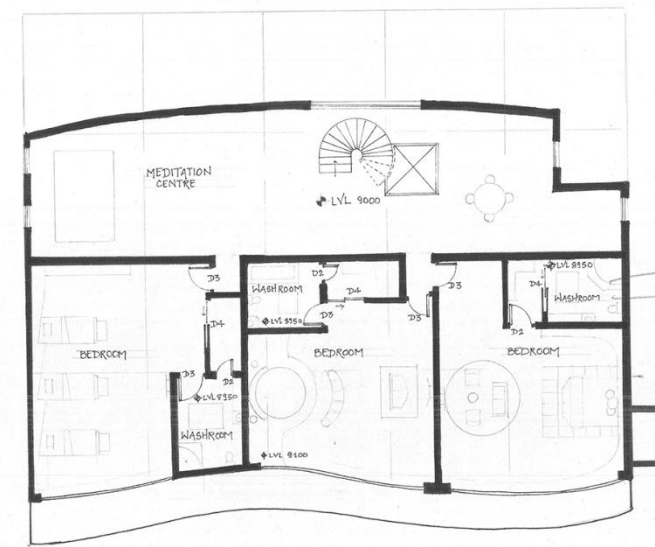
FIRST FLOOR PLAN

At the first floor, there is a soundproof home theatre adjacent to the library.

In front of library, there is a void that opens to living area.

Sitting Area to relax near the void.

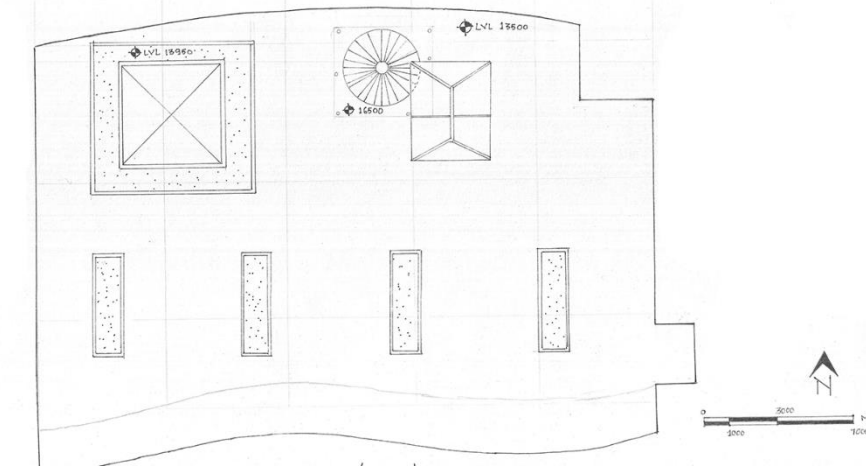
D1 2000 (slider)  
D2 800  
D3 1000  
D4 1000 (slider)  
D5 1200 (slider)  
D6 1200  
W1 1500  
W2 4500



SECOND FLOOR PLAN

The helical staircase is main element aesthetically and a void for natural lighting is given.

Two bedrooms with balconies.  
A bedroom for teenagers with a balcony.



TOP VIEW

All dimensions in mm.

At the roof, niches for landscaping is provided. A void which opens to the meditation room below for fresh air.

The helical staircase is covered with a fibre sheet to reduce maintenance and allow natural lighting.



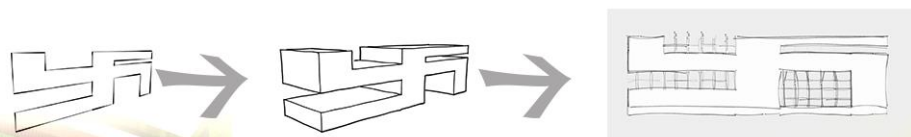
# 03 MULTISPECIALITY HOSPITAL

Site Area - 1.4 Lakhs sq. mt.

Location- Jaipur, Rajasthan

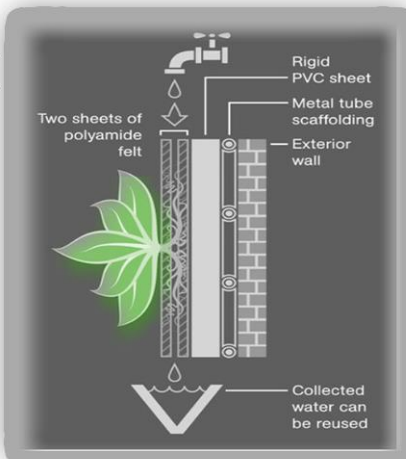
Semester VI 2015

Softwares Used- Autocad+Sketchup+Lumion



Swastik is a sanskrit word which means to be united with one. It is also a symbol of luck in the western world. It also represents happiness & pleasure.

Combining the positive nature of symbol "Swastik" and climatological factors to provide homo sapiens with well-being. Thus, Swastik is incorporated as concept of a institutional building i.e. Hospital.



The vertical landscaping detailing is shown in the figure which recycles the drain water to reduce the consumption of water supply.

This multispeciality hospital consists of 200 beds including OPD, IPD, emergency wards, regal Suits, deluxe Single rooms, single bedded rooms, double bedded rooms, triple bedded rooms, six bedded general wards, ICU, CCU, Neonatal and many more.

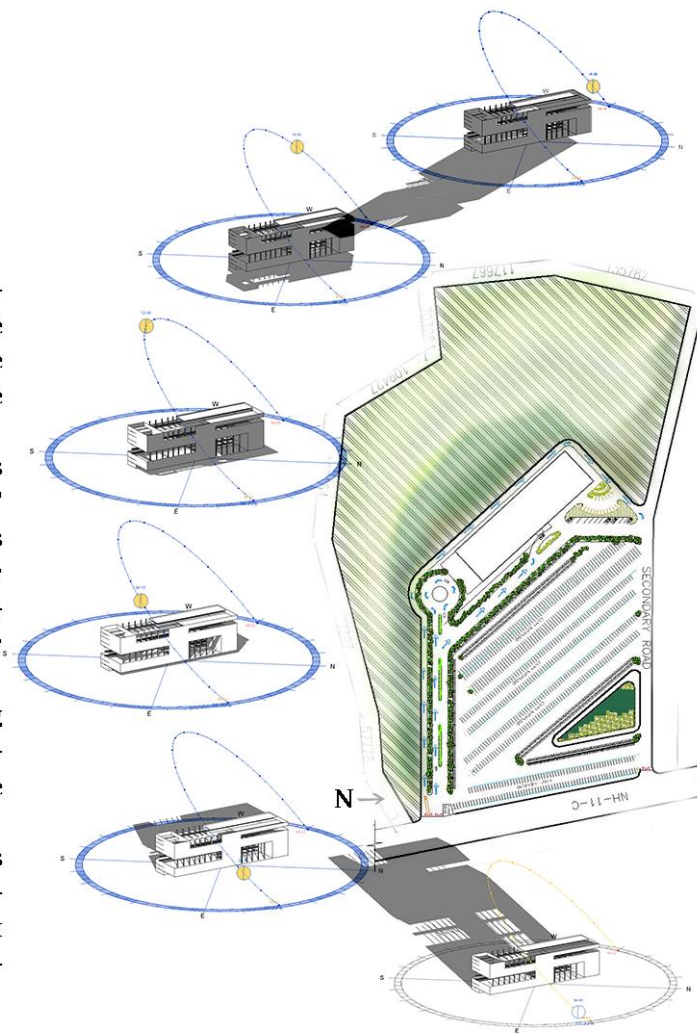


The building is located away from the highway to reduce the disturbance level.

The hospital is named "Bonheur" which means well-being for human being to recover in a faster speed.

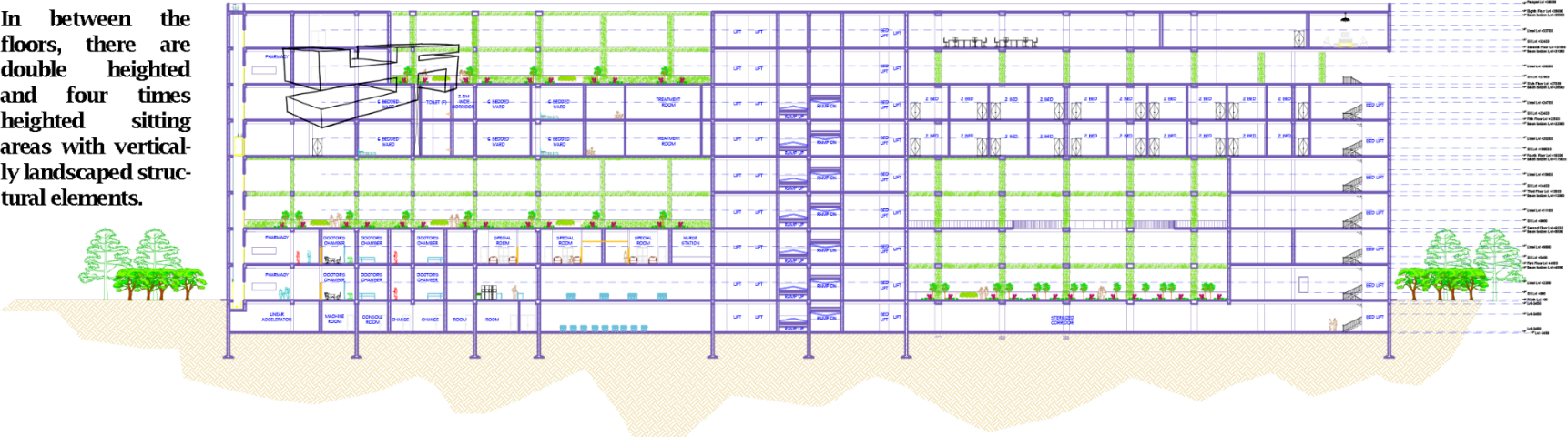
Vertical landscaping is done for the natural cleansing of the surrounding air.

Healing processs is enhanced by the sitting areas to relax and consume sun-light.

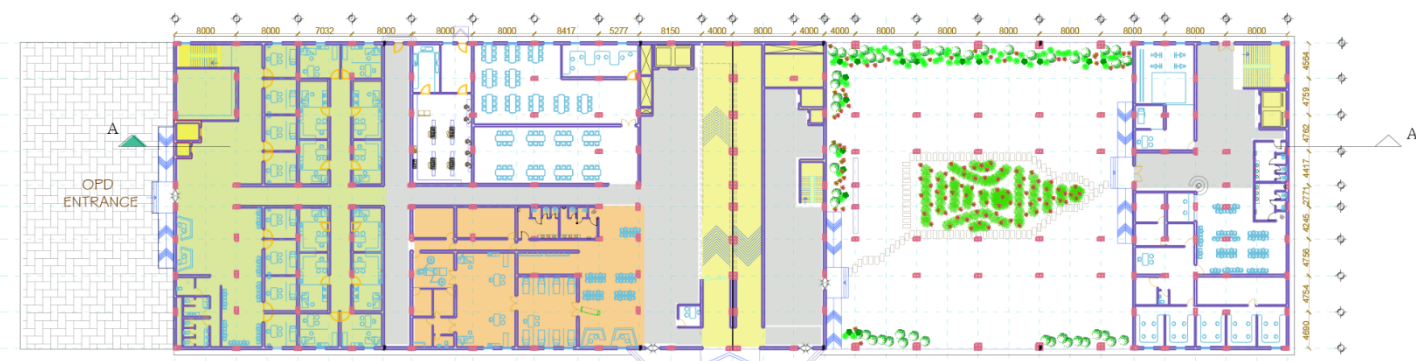




In between the floors, there are double height and four times height sitting areas with vertically landscaped structural elements.

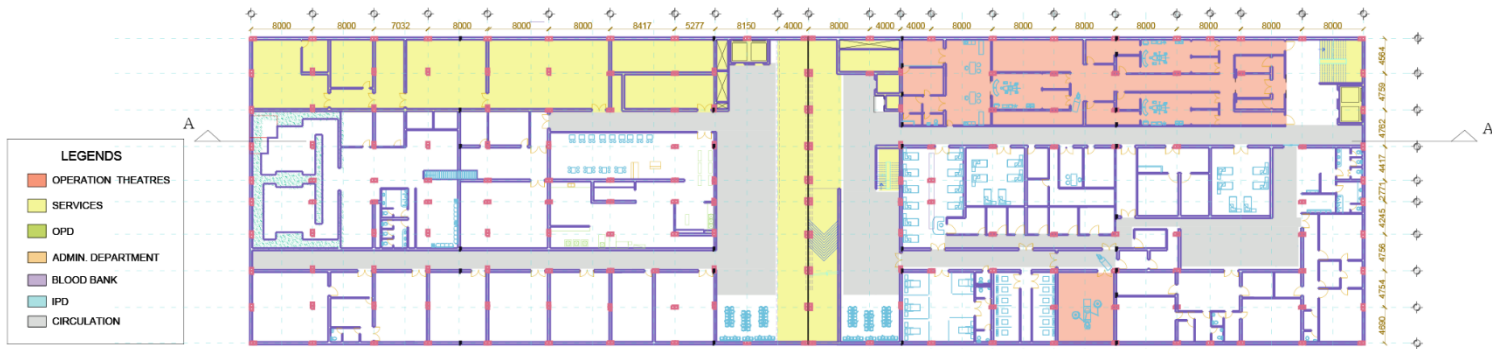


SECTION AA'



GROUND FLOOR PLAN

Ground Floor mainly consists of OPDs, emergency wards, cafeteria and blood bank on the opposite side. In middle, there is garden for relaxation of relatives.



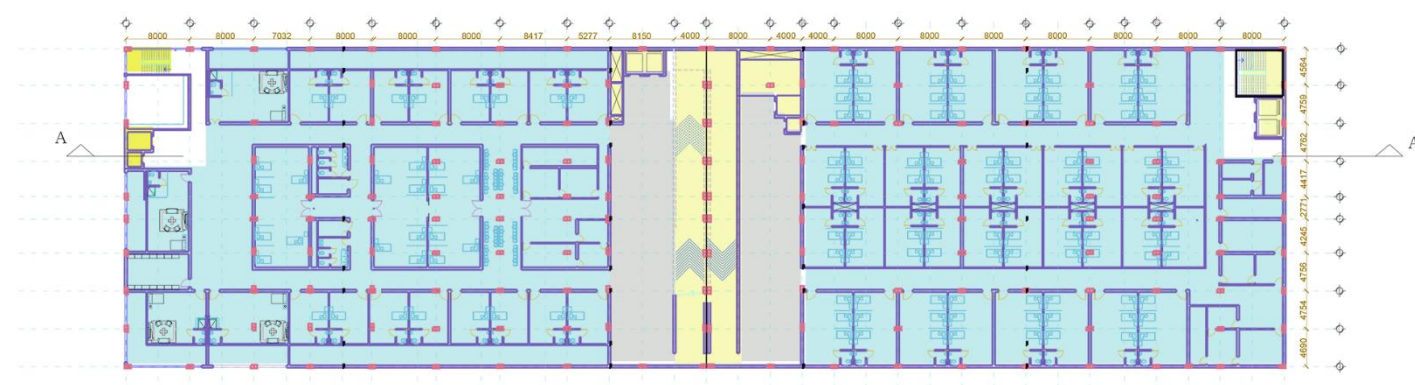
- LEGENDS
- OPERATION THEATRES
  - SERVICES
  - OPD
  - ADMIN. DEPARTMENT
  - BLOOD BANK
  - IPD
  - CIRCULATION

BASEMENT PLAN

It consists of OTs, Delivery room, Labor rom, X-ray, sonography dep. as thry require no sunlight and also an opening is provided in the recovery room for lighting & ventilation. On the opp. side, there is OPDs and emergency wards. Both has separate entrance gate.



Single bed rooms,  
double bed rooms,  
triple bed rooms,  
six bed rooms,  
deluxe rooms with  
services.

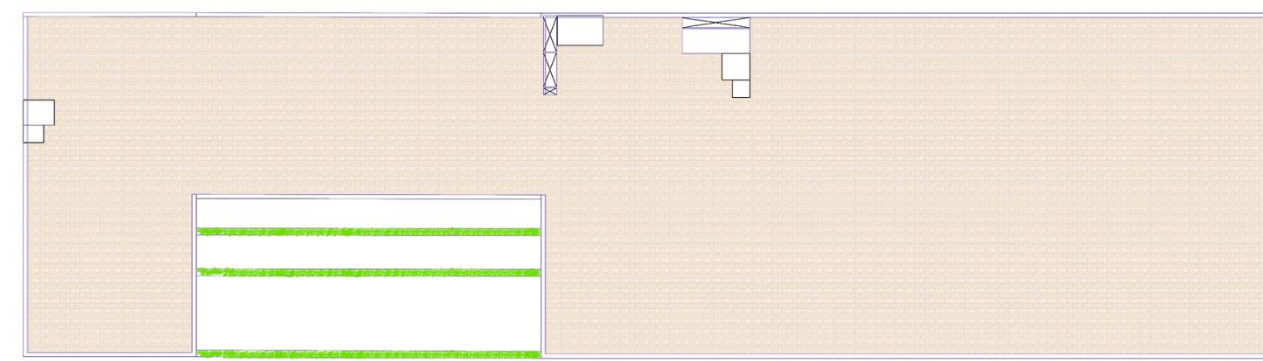


SECOND & THIRD FLOOR PLAN

OPDs, special rooms,  
ICU-CCU wards and  
blood bank in the  
right-most portion of the  
building.



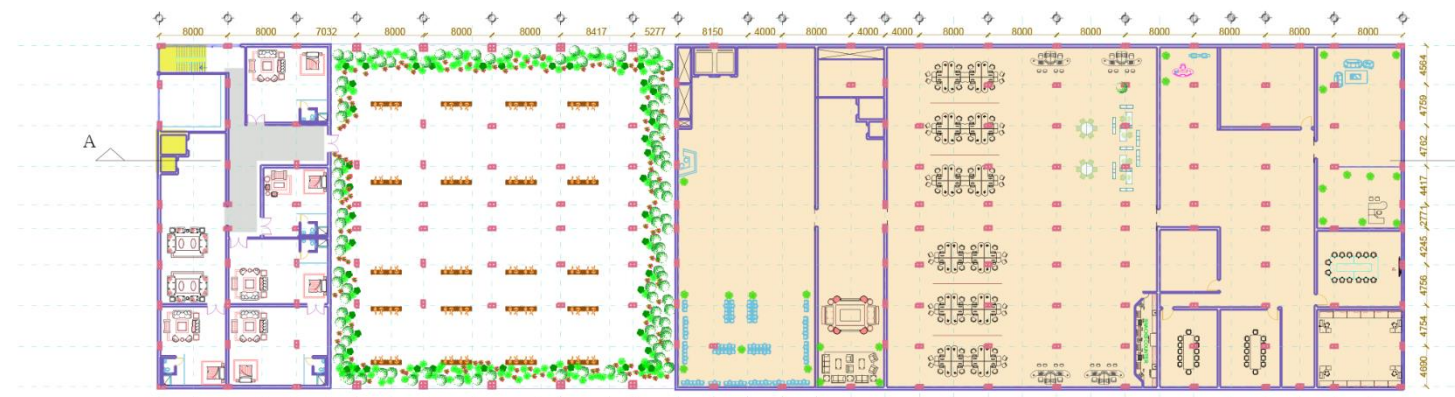
FIRST FLOOR PLAN



TERRACE PLAN

Roof consists of shaft  
openings, large area for  
services.

- LEGENDS
- OPERATION THEATRES
  - SERVICES
  - OPD
  - ADMIN. DEPARTMENT
  - BLOOD BANK
  - IPD
  - CIRCULATION



FOURTH FLOOR PLAN

This floor consists of  
administration depart-  
ment including mar-  
keting, HR, IT, chief  
medical office, confer-  
ence and meeting  
rooms.  
On the left-most por-  
tion, there are regal  
suits for VIPs, VVIPs.



# 04 BEACHFRONT APARTMENT

Area- 165 sq.mt.

Location- Italy

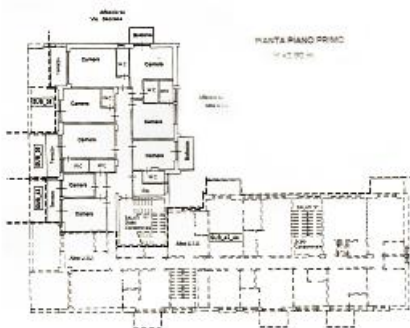
Softwares Used- Autocad+Sketchup+V-ray(Interiors)  
+Lumion(Exterior)+Photoshop



TERRACE GARDEN



Beachfront Apartment is redesigned for an Italian client who had the goal to create 2 two-room apartments and 1 three-room apartment, with 2 bathrooms and a double view.

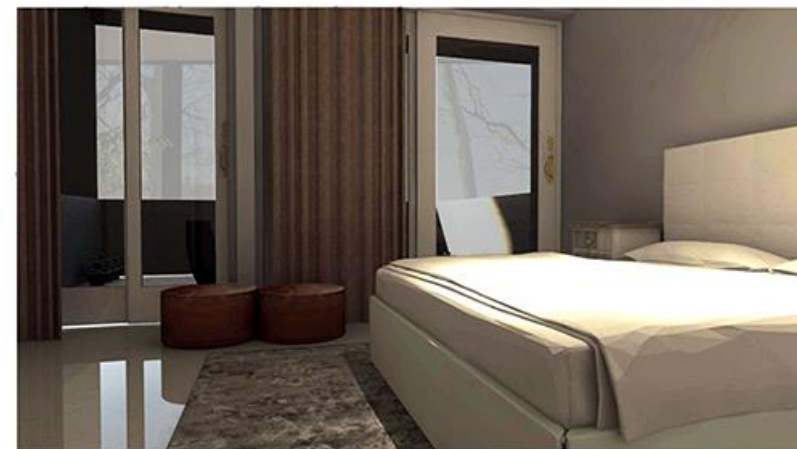


Original Plan provided by the client to be redesigned.

LIVING ROOM



BEDROOM



Terraces were the important areas to be designed. Small informal sitting spaces along with landscaping pockets were designed. Some furnitures were designed and some were listed as per the design which were locally available in the market.





As per the design conditions of Italian client, highly modern and new approach towards design is applied. The small area of modern style washroom is wisely utilised to fulfill the conditions.

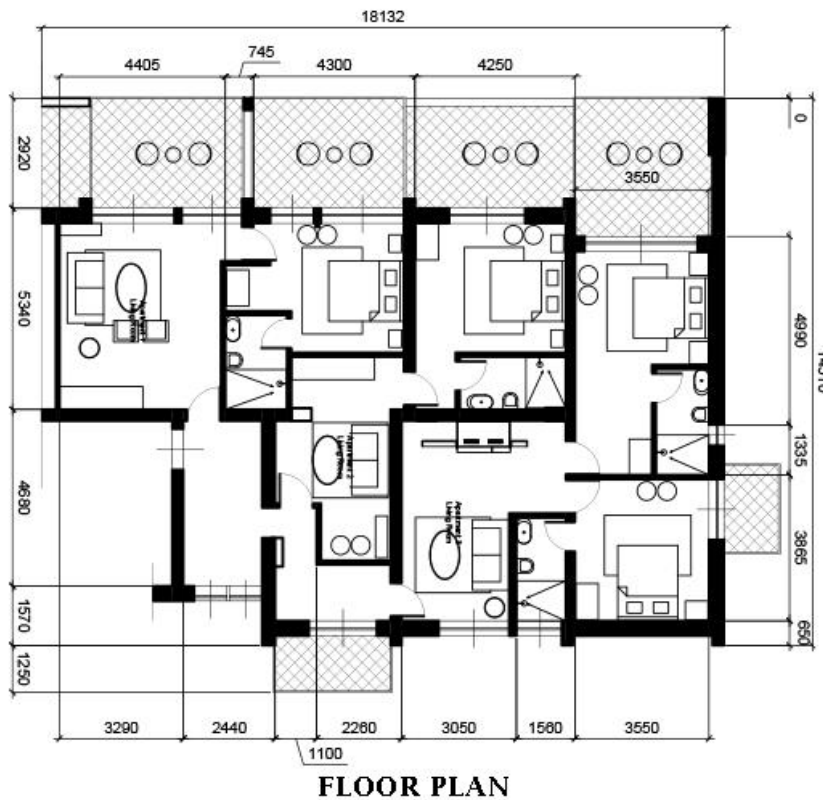


SECTIONS



The client had stated the minimum area requirements to design the interiors.

Alterations of columns and external openings were prohibited.



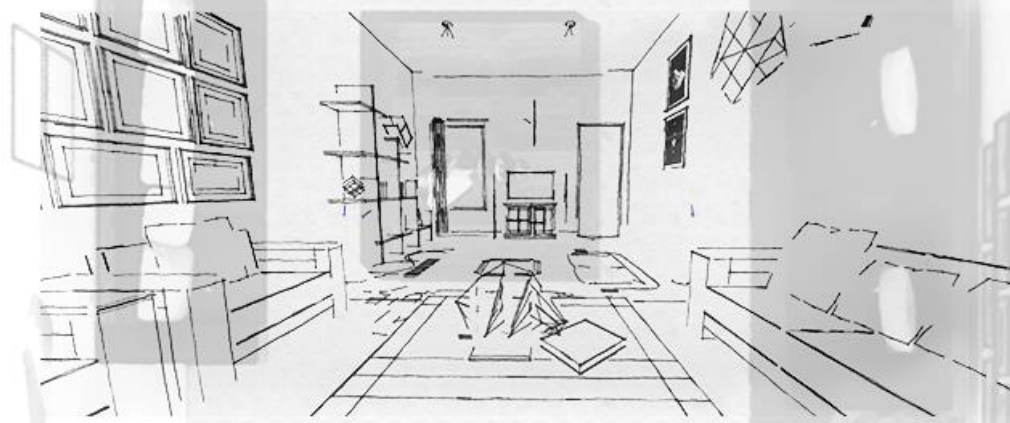


# 05 LIVING AREA

Room Area- 40 sq.mt. (5 X 8)

Training Work

Softwares Used- Autocad+Sketch-up V-ray+Photoshop



The living room is designed for a MIG class people. Along with the living area, reading space is provided. Windows increment the natural lighting and ventilation. It can accommodate 8 persons at a time and more, if required.



FLOOR PLAN





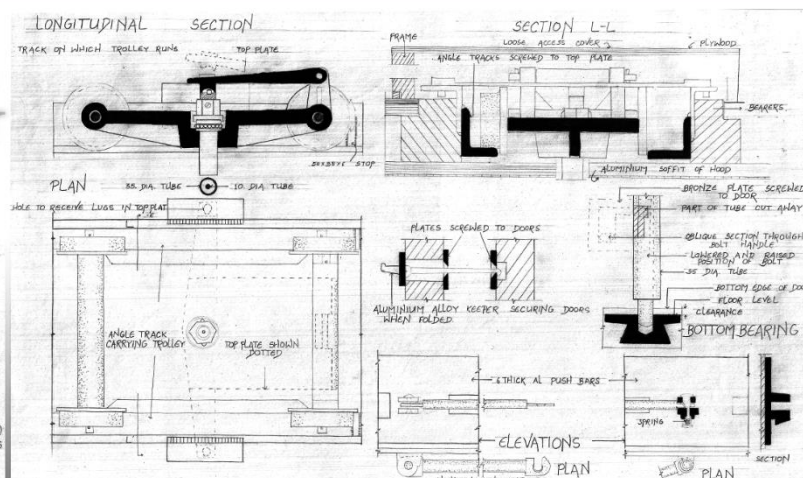


A room which is used in a residential house for relaxing and socializing.

Elements used in the room are- Marble flooring, Wooden laminates, Wooden book shelf, a television with its cabinet, comfortable sofas to gain a contemporary style.



## ALUMINIUM WINDOWS' DETAILS

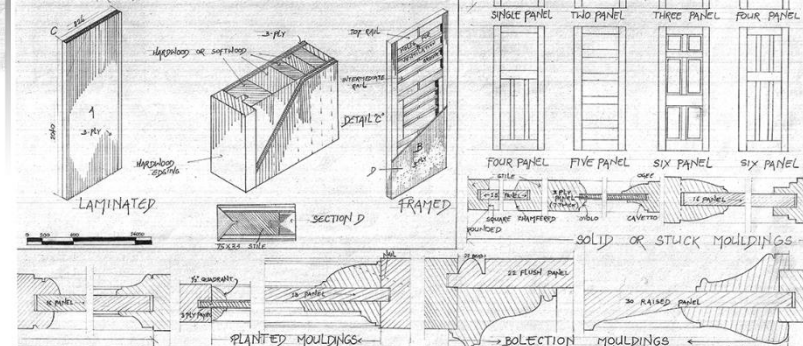


## REVOLVING DOORS' DETAILS

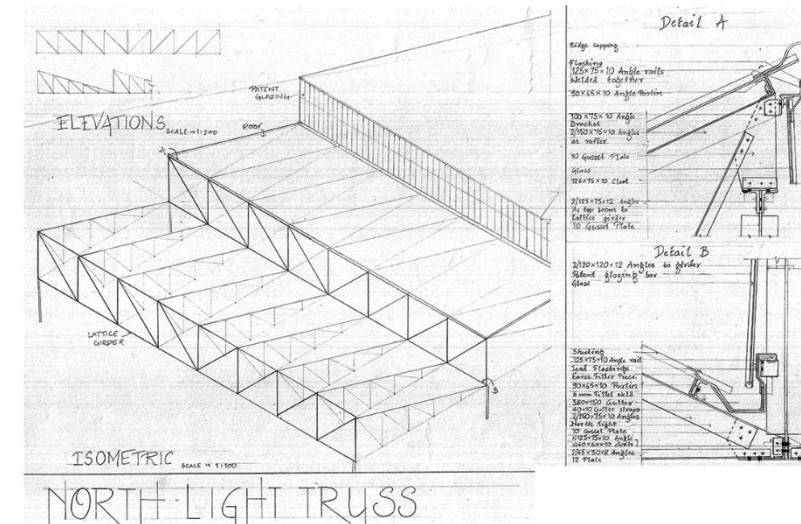
FIGURE A IS A LAMINATED FLUSH DOOR AND CONSISTS OF A CORE OF STRIPS OF WOOD GLUED TOGETHER UNDER GREAT PRESSURE AND FACED ON EACH SIDE BY A SHEET OF THREE THIN LAYERS OF VEPEERS OF WOOD, CALLED PLYWOOD, WHICH IS ALSO GLUED UNDER PRESSURE TO THE CORE.

A LAMINATED FLUSH DOOR IS HEAVY AND REQUIRE 3 MUCH MATERIAL, AND ANOTHER TYPE, CALLED A FRAMED FLUSH DOOR (FIGURE B).

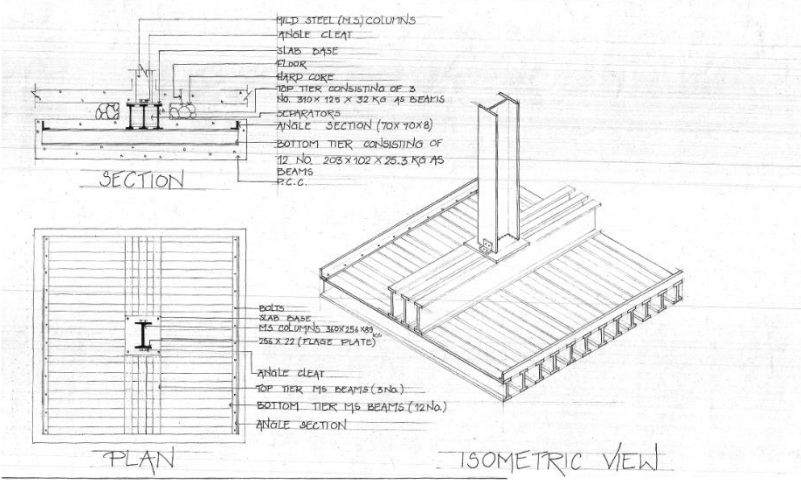
A LAMINATED FLUSH DOOR IS HEAVY AND REQUIRE  
S MUCH MATERIAL, AND ANOTHER TYPE, CALLED A FRAMED  
FLUSH DOOR (FIGURE B).



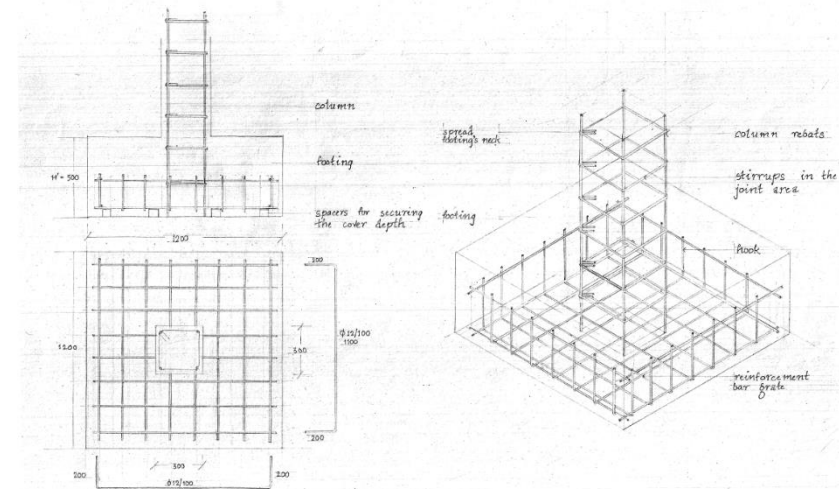
FLUSH & PANALLED DOORS



NORTH-LIGHT TRUSS

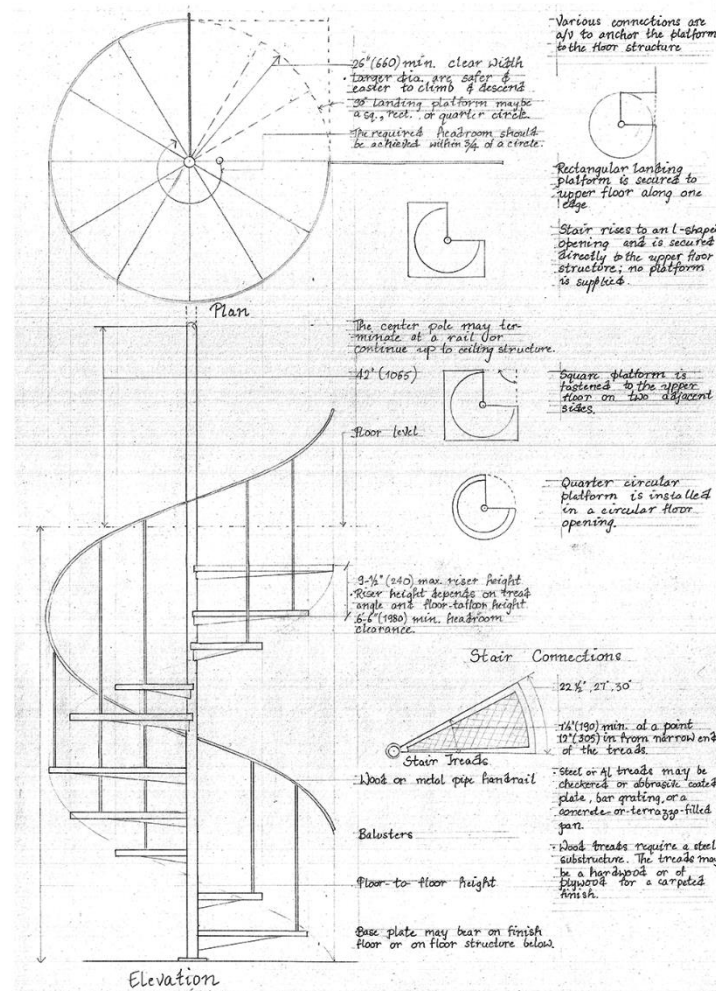


## Grillage Foundation



## REINFORCEMENT IN FOUNDATION



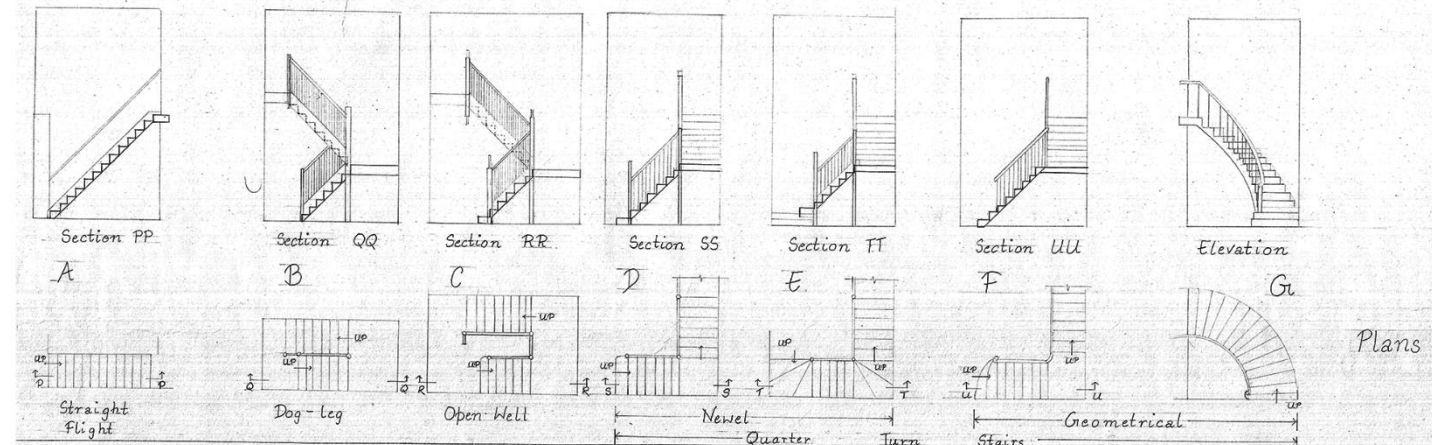
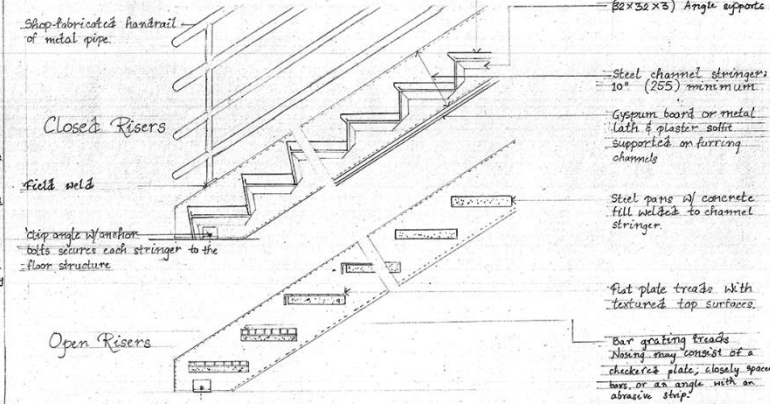
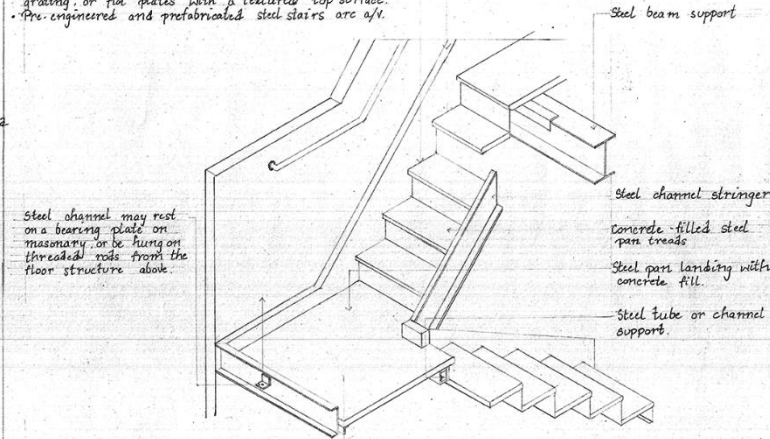


SPIRAL STAIRCASES & STEEL STAIRCASES

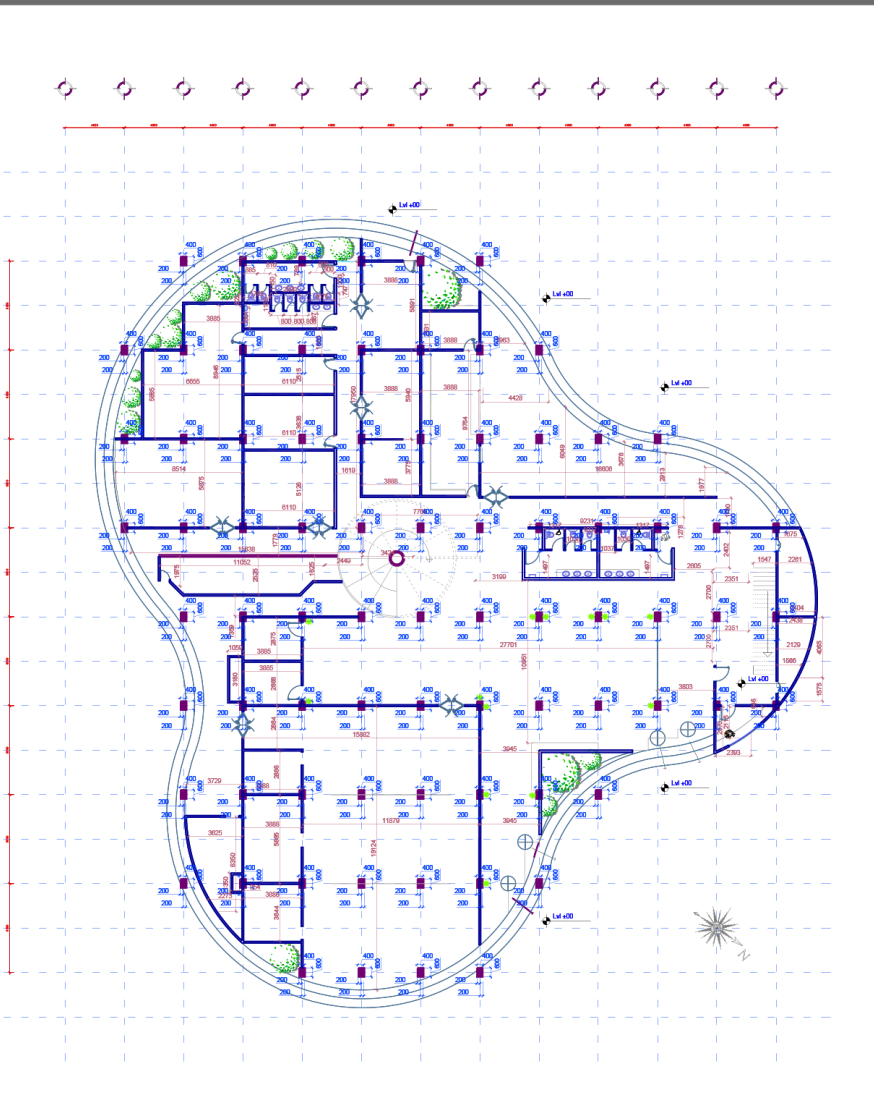
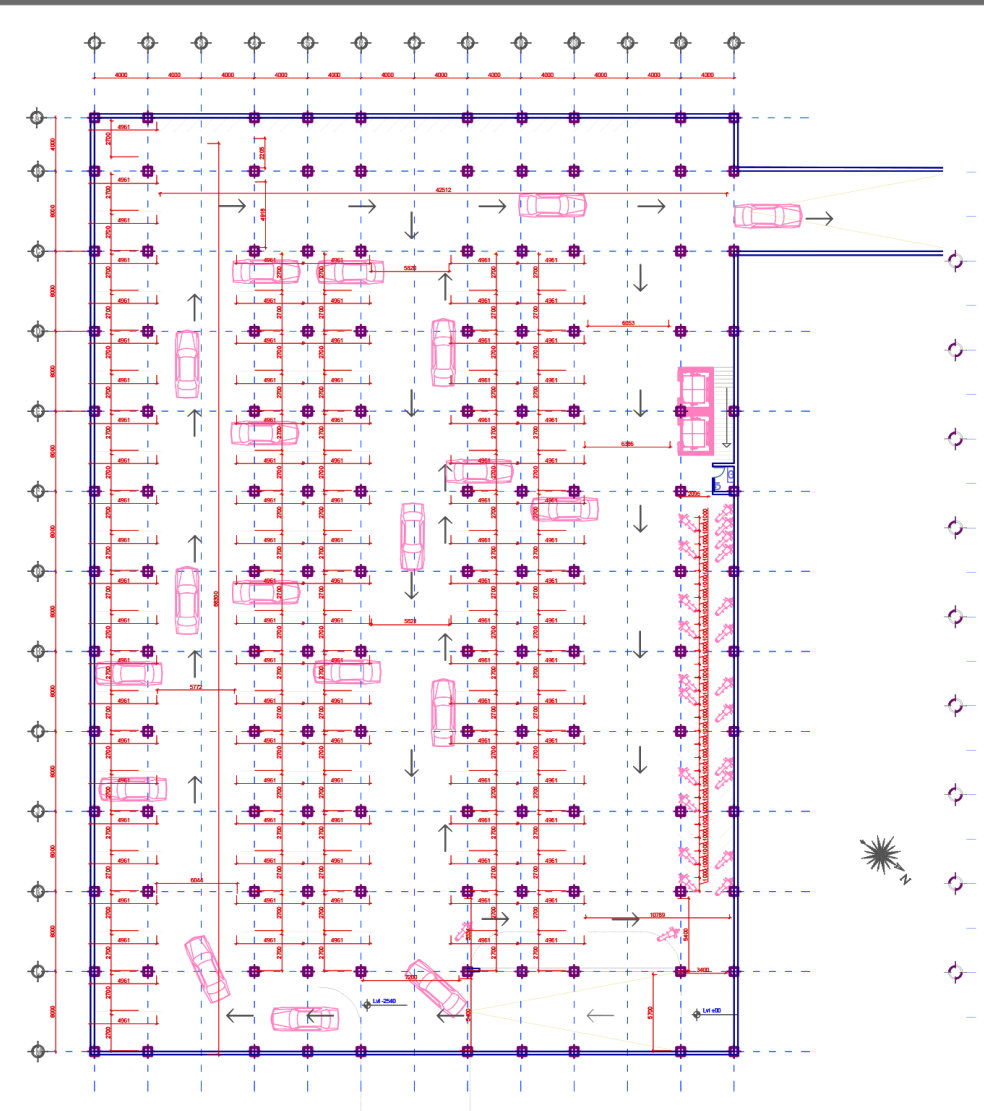
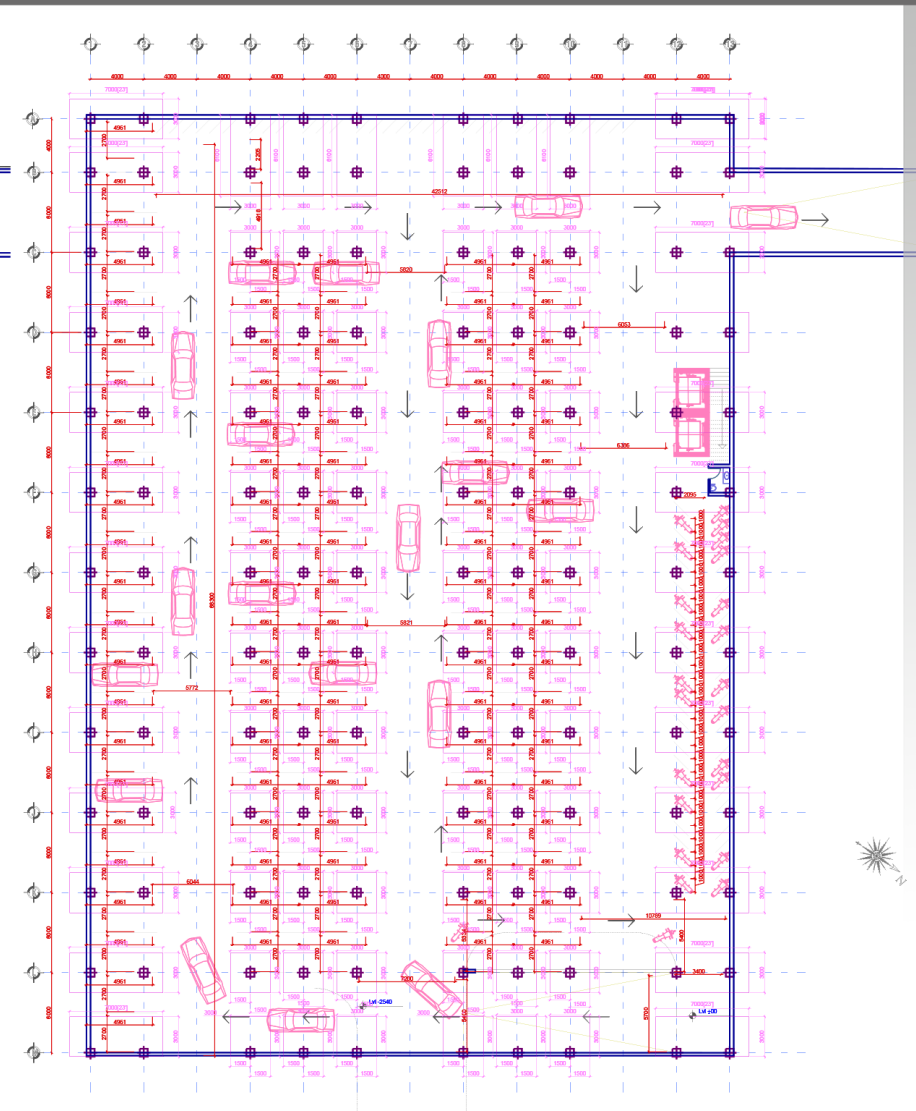
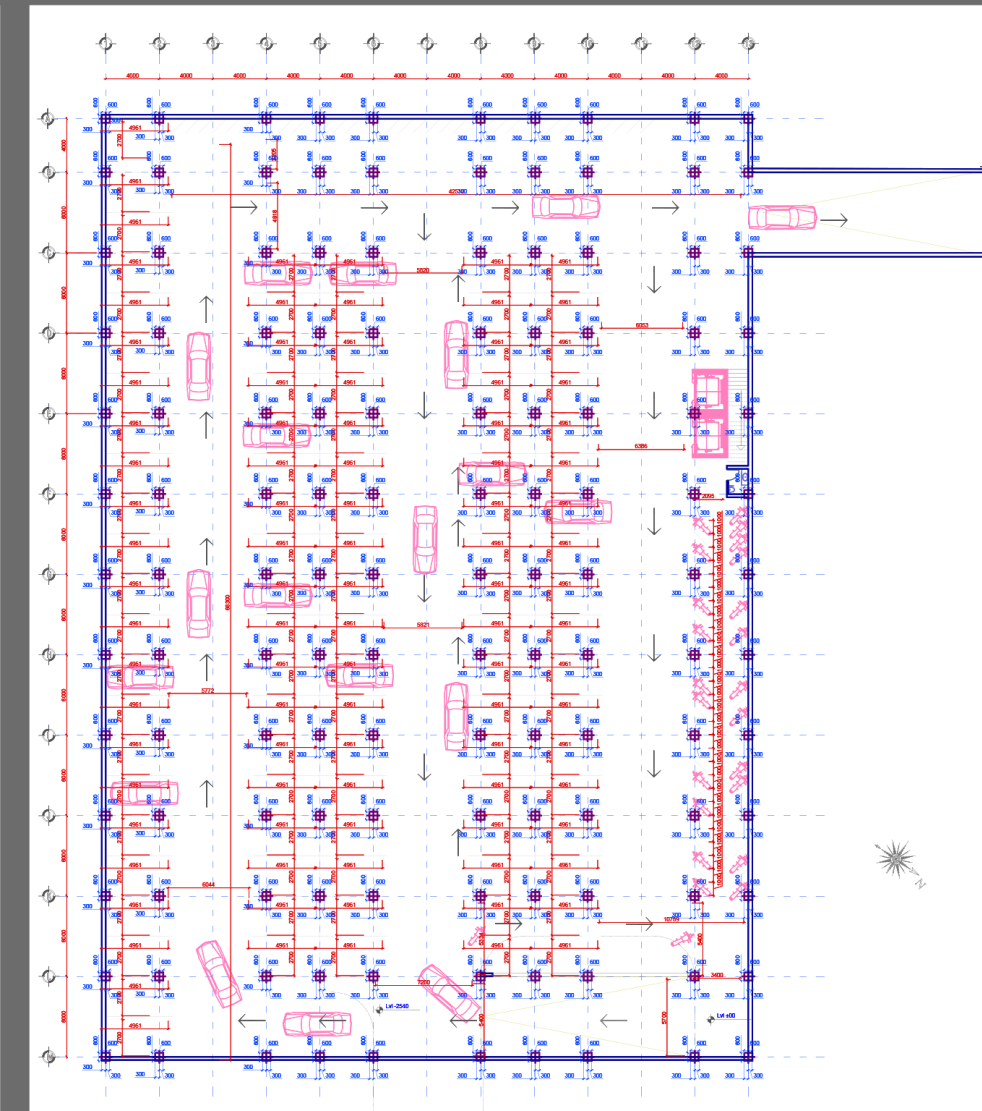
## Steel Stairs

Steel stairs are analogous in form to wood stairs.

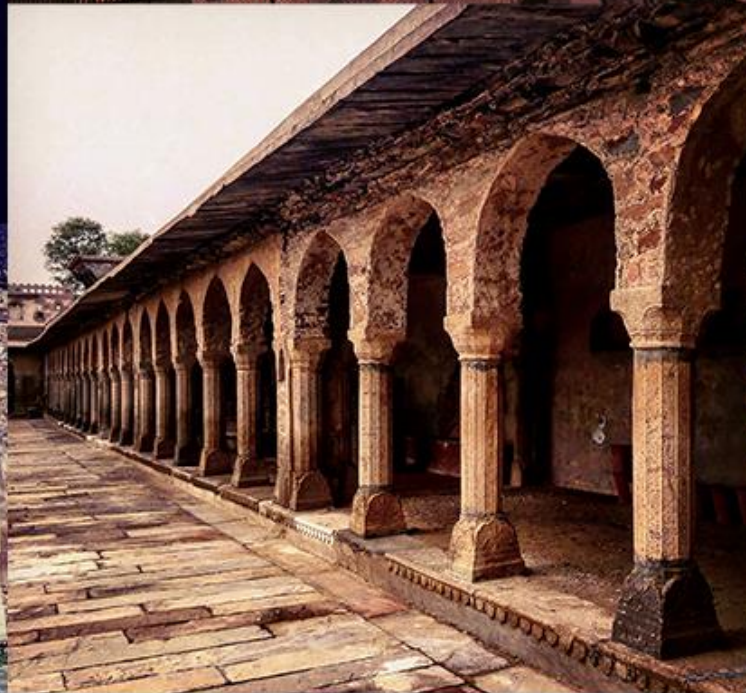
- Steel channel sections serve as carriages & stringers.
- Stair treads span the distance between the stringers.
- Treads may consist of concrete-filled steel pans, bar grating, or flat plates with a textured top surface.
- Pre-engineered and prefabricated steel stairs are a/v.











# 08 Architectural PHOTOGRAPHY

