



ARCHITECTUAL PORTFOLIO

YEAR 2025

COMMERCIAL COMPLEX DESIGN PROJECT

 **NANDI HILLS,**
BANGALORE



PROJECT BRIEF

To design a commercial complex/ highway mall for 3.65 Acre.

To be the pull factor from NH 44 highway, neighborhood villages.

To achieve maximum number of parking considering future traffic.

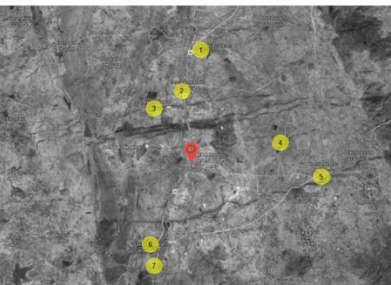
To be iconic design, creating a benchmark for future design.

The site is located in hot and dry zone , hence the design should be in responsive architecture.

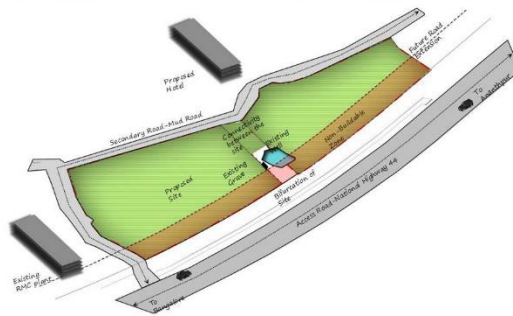
REQUIREMENTS

- Car Parking/Spa
- Pedestrian Walkway
- Observatory Tower
- Amphi Theatre
- Food Court
- F &B outlet
- Restaurant
- Retail outlet
- Multipurpose hall
- Garden
- Clinic
- Games /Kids area
- Fuel station
- Swimming pool

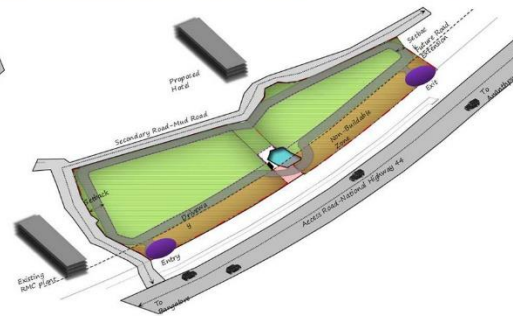
SITE ANALYSIS



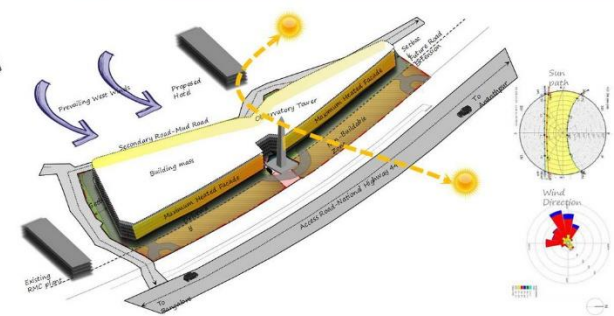
Location



Site context



Access road & Pathways



Climatic influence



SITE PLAN AND AERIAL VIEW



SITE PLAN



ROAD SECTION 1



ROAD SECTION 2

LEGENDS

- | | |
|-----------------------|------------------------|
| 1. Access road | 9. Amphi Theatre |
| 2. Entry | 10. Central Food Court |
| 3. Driveway | 11. F & B outlet |
| 4. Car Parking/spa | 12. Restaurant |
| 5. Bike Parking | 13. Retail outlet |
| 6. Pedestrian Walkway | 14. toilets |
| 7. Arrival Plaza | 15. Central Kitchen |
| 8. Observatory Tower | 16. Elevated Walkway |
| | 17. Multipurpose hall |



BUILDING SECTION

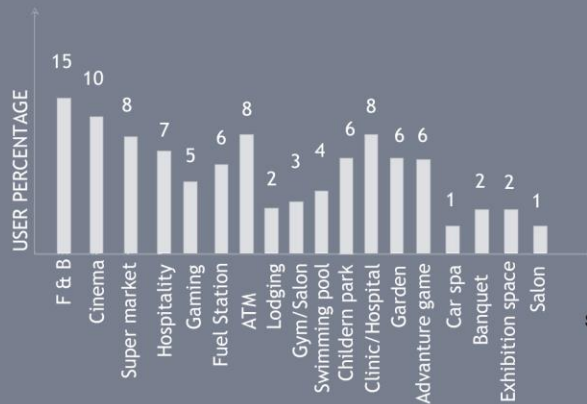


Aerial view

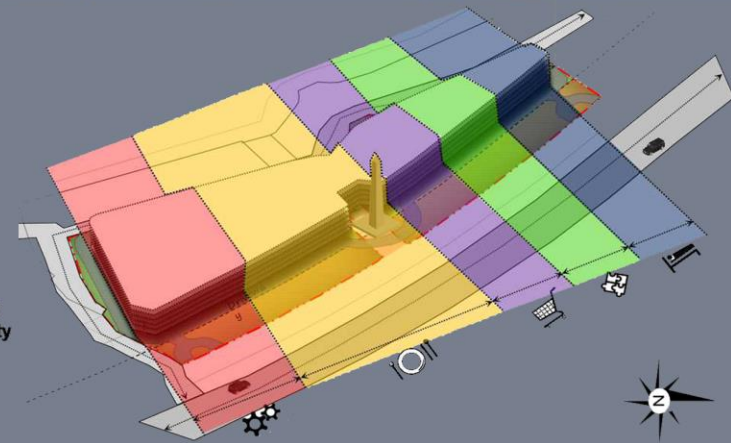
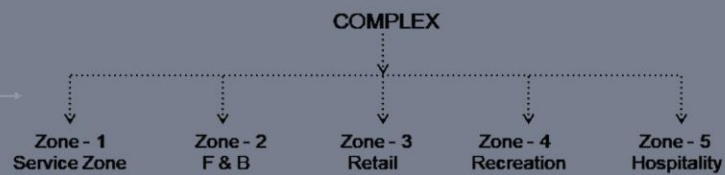




SITE ZONING

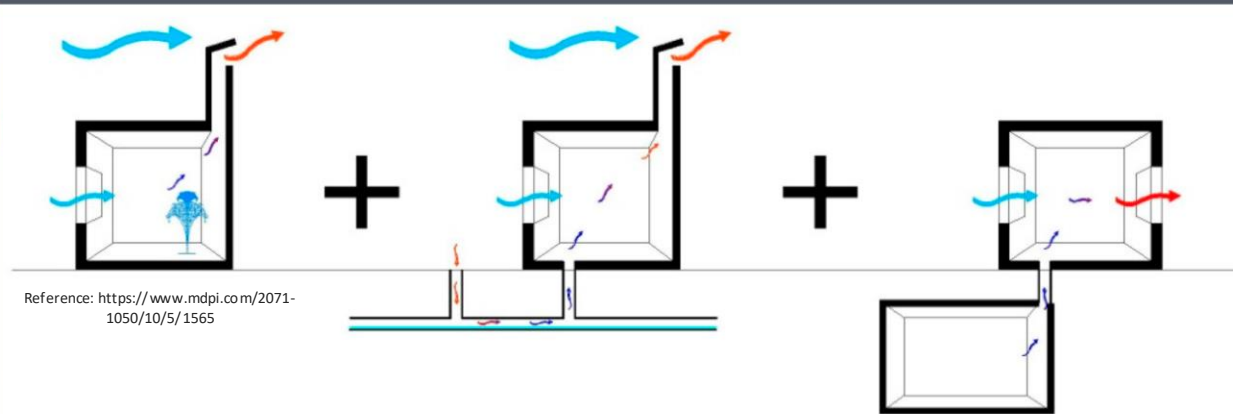
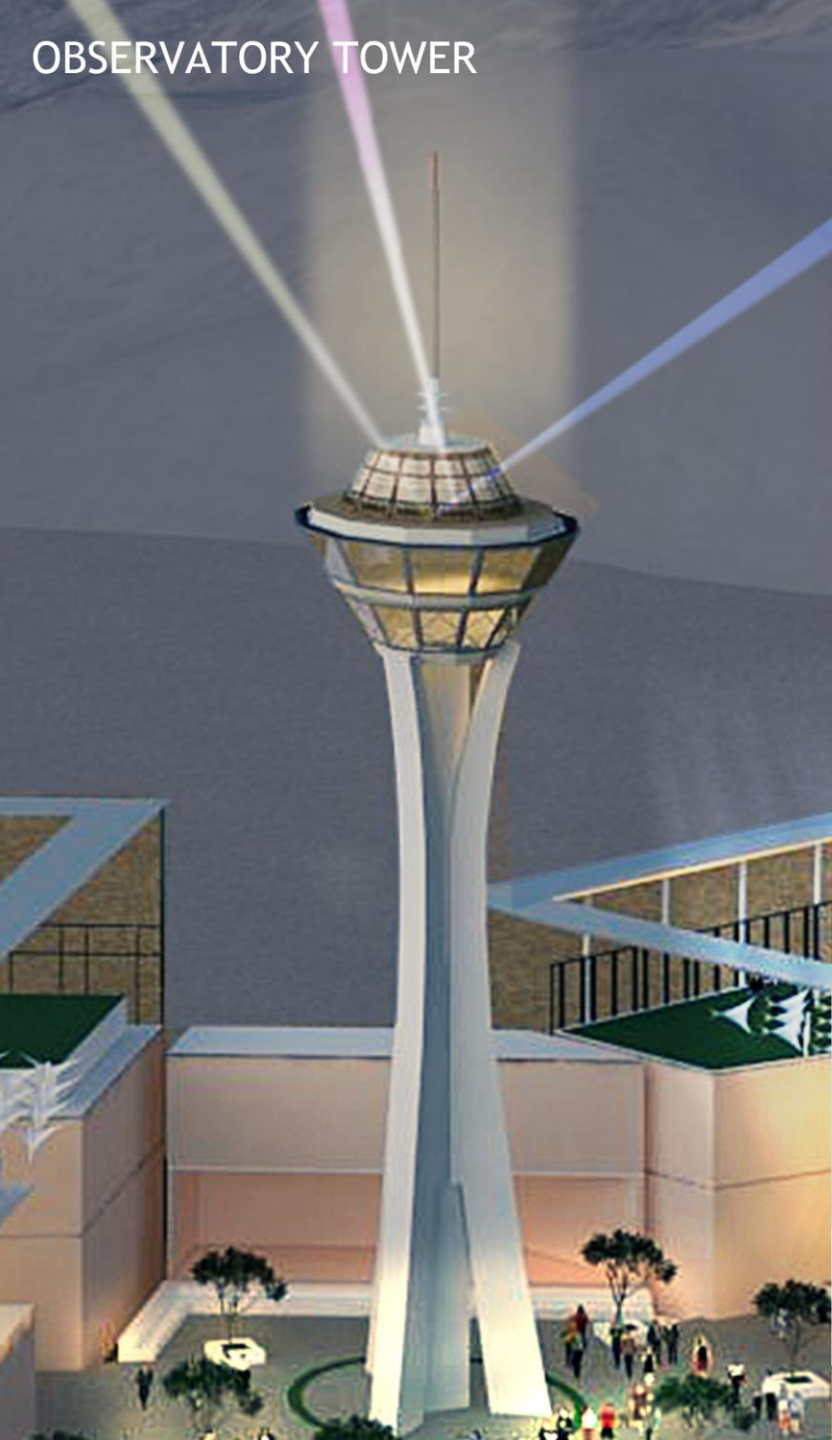


The site is divided into 5 zones as per the survey and users requirement done in 2015.



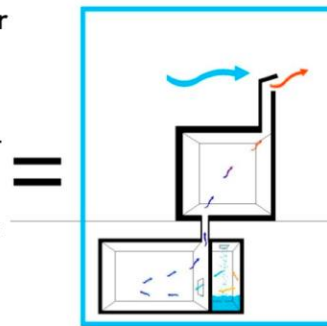
OBSERVATORY TOWER

TECHNIQUE USED IN TOWER - PASSIVE COOLING



Advantages of the tower

1. It becomes the landmark in the campus
2. It can be used as an observation tower
3. It uses a sustainable method for cooling without using any artificial energy

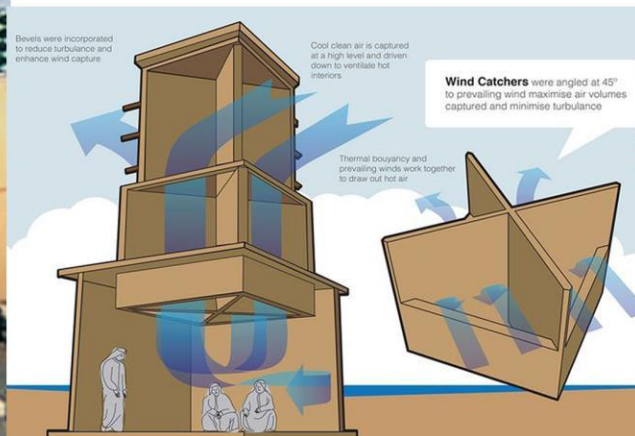


Passive cooling

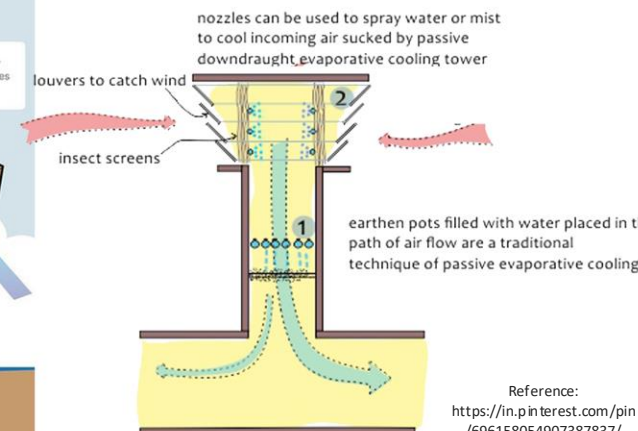
How it works

Passive cooling relies on natural heat sink to remove heat from the building following steps are followed in this process

1. Storing of cold mass or air within billions envelope
2. Avoidance if direct external solar radiation heat gain
3. Removal of gained heat from the interior or exterior surfaces
4. Slowing heat transfer from the external climate through the building envelope



Reference: <https://in.pinterest.com/pin/244601823495856008/>



Reference:
<https://in.pinterest.com/pin/696158054907387837/>

ROW HOUSE

DESIGN PROJECT

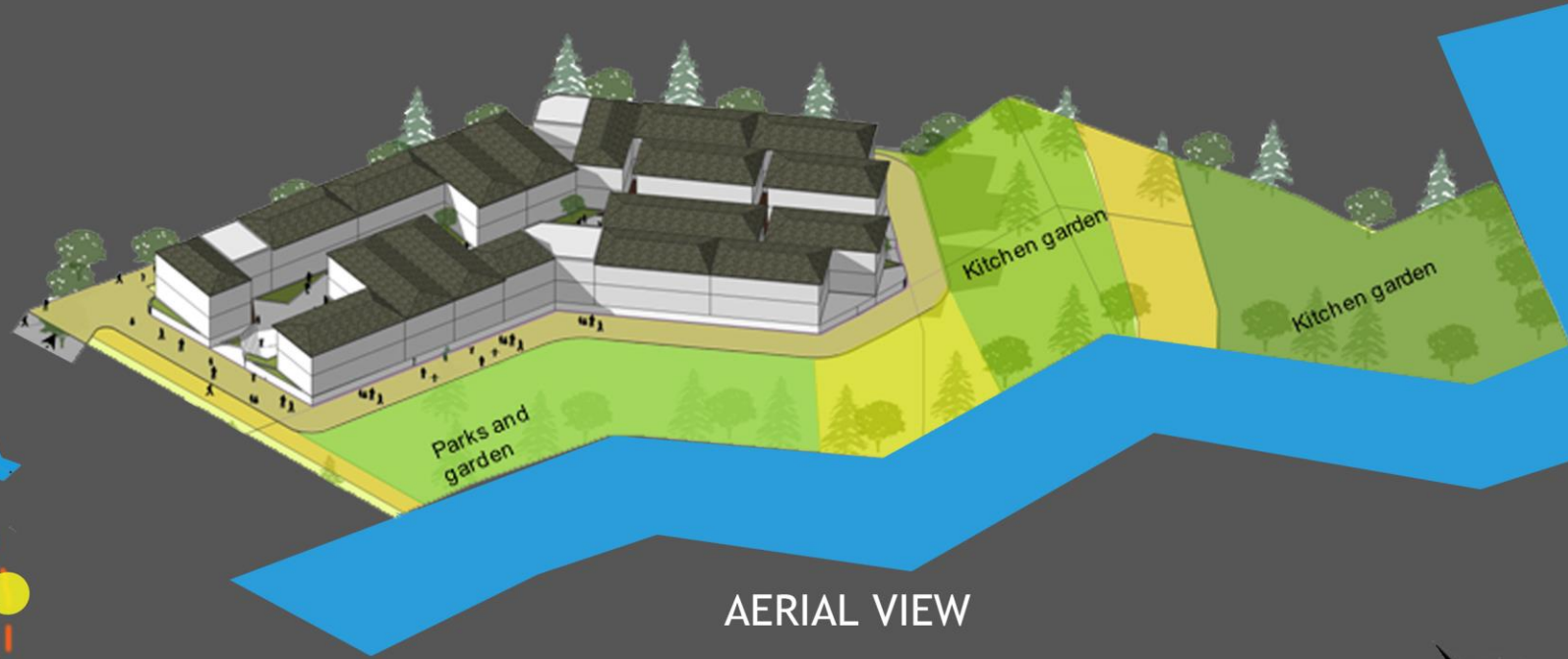
SITE ANALYSIS

Site area-2.15 acres

Access road to site

Site surroundings

Climatic influence



AERIAL VIEW

REQUIREMENTS



PROJECT BRIEF

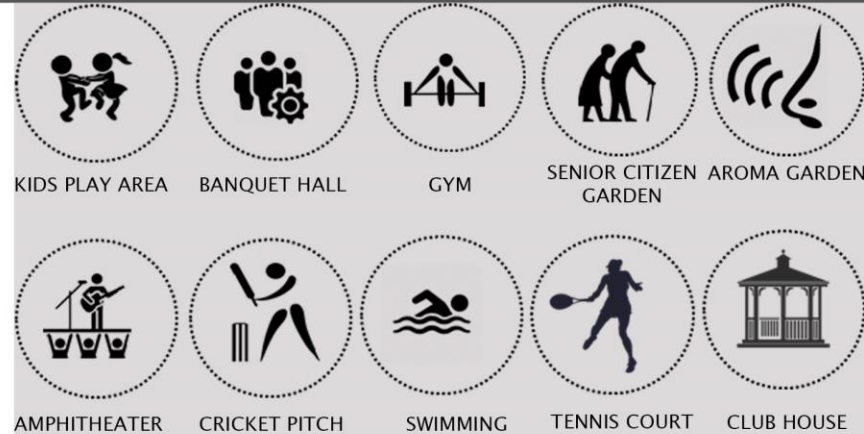
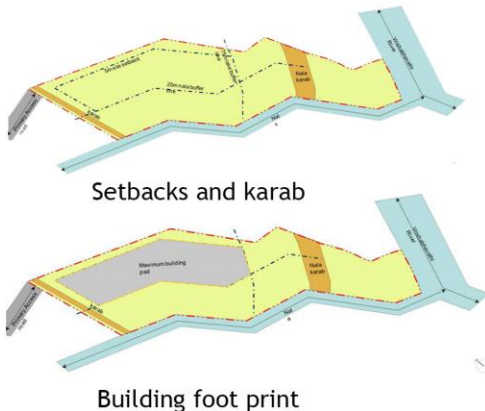
The site about 2.15 acres, proposed for row houses.

According to the bye-law, the setback provided is 30M from nalla/river. Hence reduction in buildup area.

The site slopes down towards nalla and river.

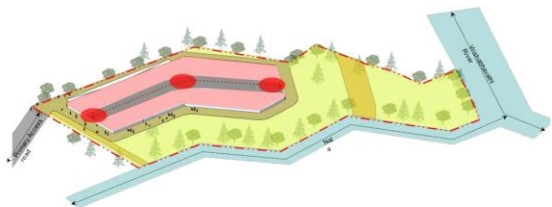
Main purpose was to create ambience for people staying in these row houses.

To provide view to the garden and river.

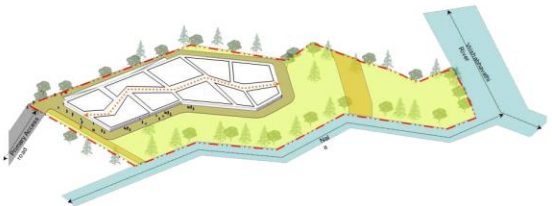


CONCEPT DEVELOPMENT

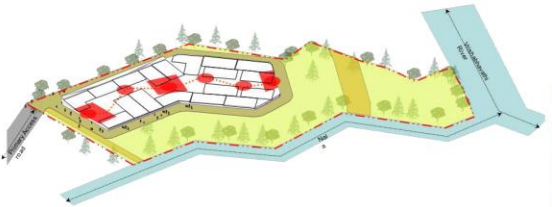
DESIGN DEVELOPMENT



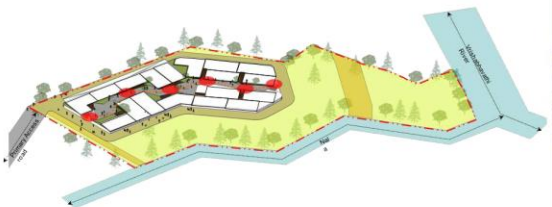
Existing nalas and the natural topography dictates the buildable zone.



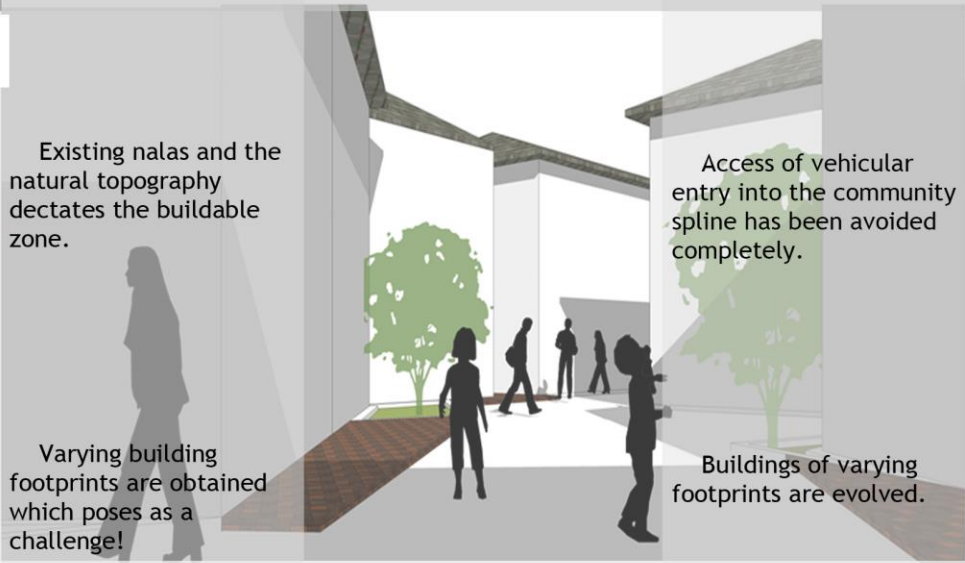
Varying building footprints are obtained which poses as a challenge!



Varying nodes of different sizes are obtained.

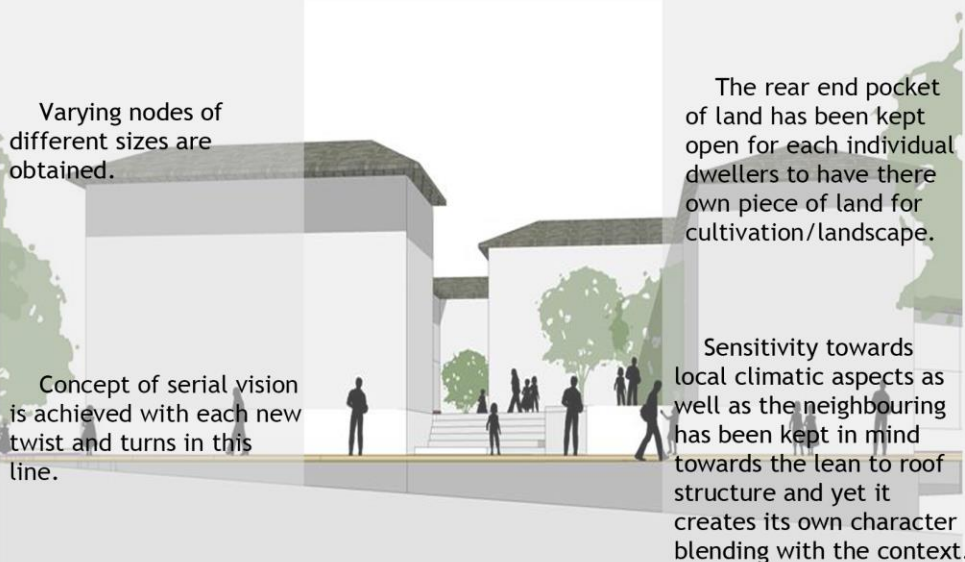


Concept of serial vision is achieved with each new twist and turns in this line.



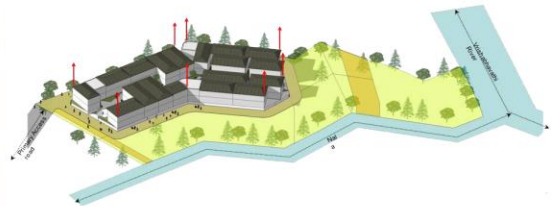
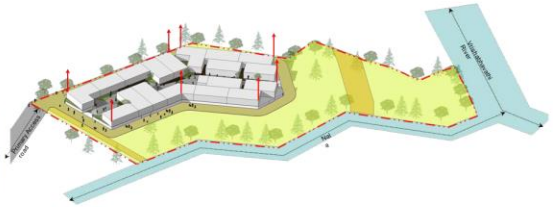
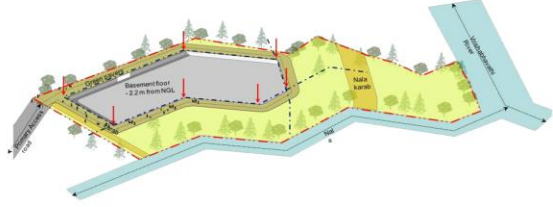
Access of vehicular entry into the community spline has been avoided completely.

Buildings of varying footprints are evolved.



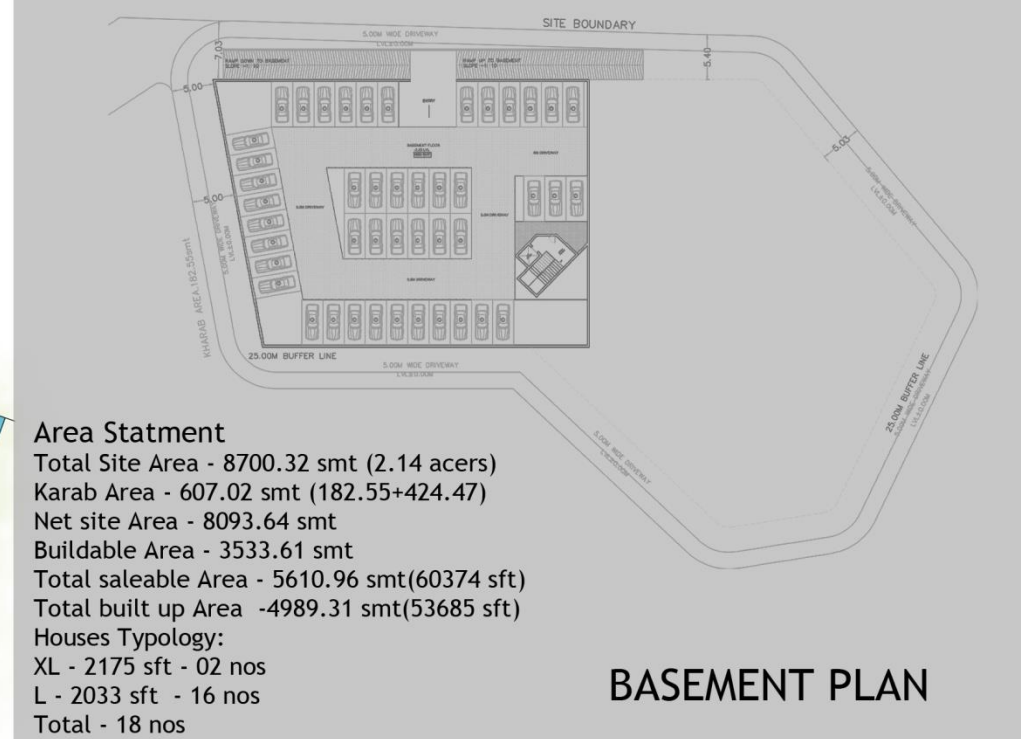
The rear end pocket of land has been kept open for each individual dwellers to have there own piece of land for cultivation/landscape.

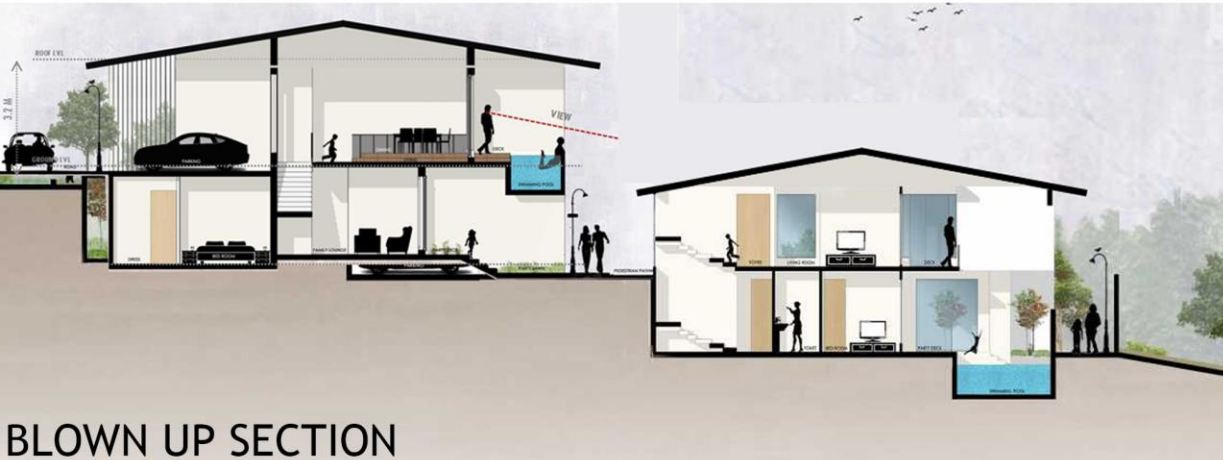
Sensitivity towards local climatic aspects as well as the neighbouring has been kept in mind towards the lean to roof structure and yet it creates its own character blending with the context.



CONCEPT AND DESIGN DEVELOPMENT



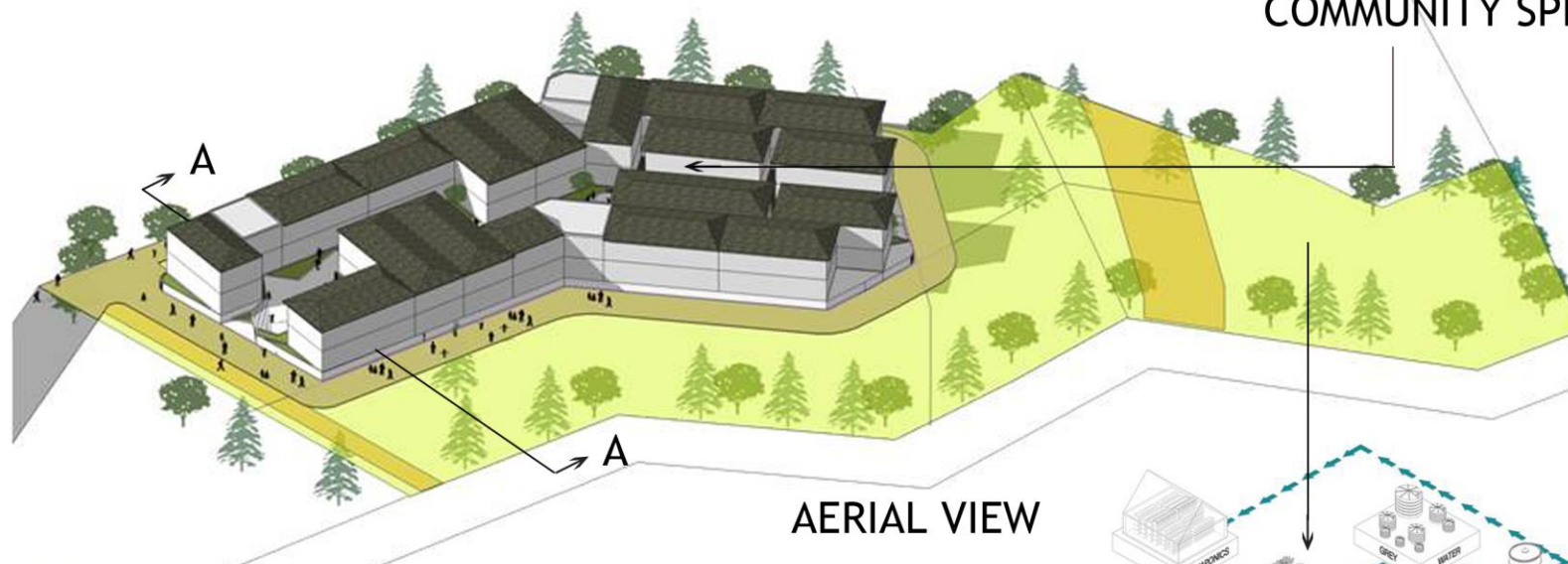




BLOWN UP SECTION
OF UNITS

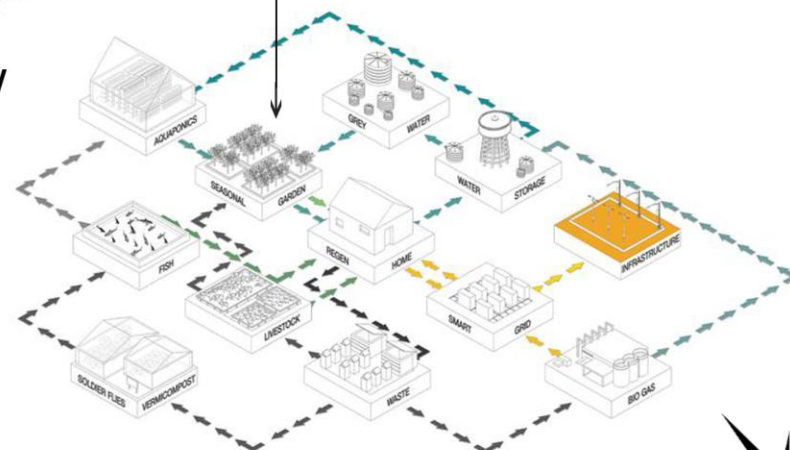
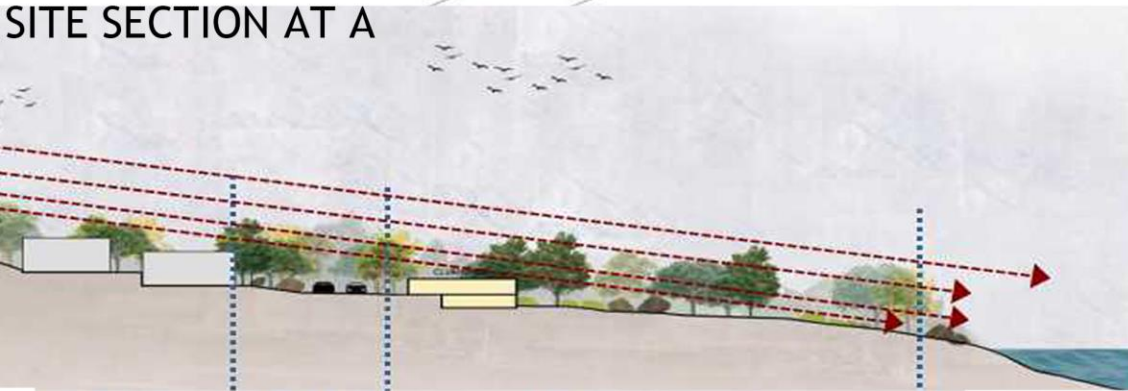


COMMUNITY SPLINE



AERIAL VIEW

SITE SECTION AT A



Reference: <https://www.archdaily.com/794167/>

BLACK SOLDIER FLY



PROJECT BRIEF

Site Area: 43,500 Sq.ft

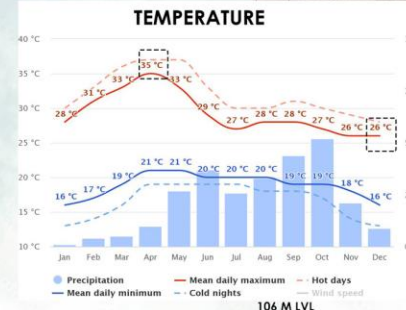
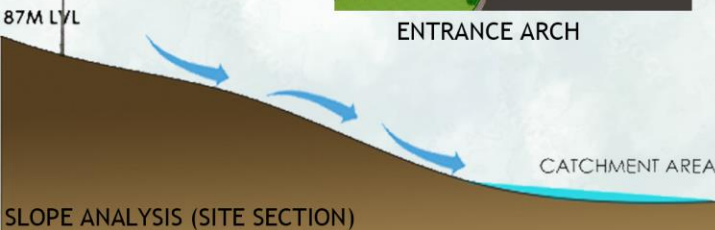
Agricultural universities are essential in advancing education, research, and innovation in farming.

Chamarajanagar Agriculture University, the second-largest in Karnataka.

The university features an Academic block, hostels for boys and girls, a library, an AV lab, staff quarters, a skill training center, a sports academy, and a playground. It also has dedicated agricultural land for hands-on training.



The site slope down from 187m to 106m. There is a difference of 81m from the highest to the lowest point.

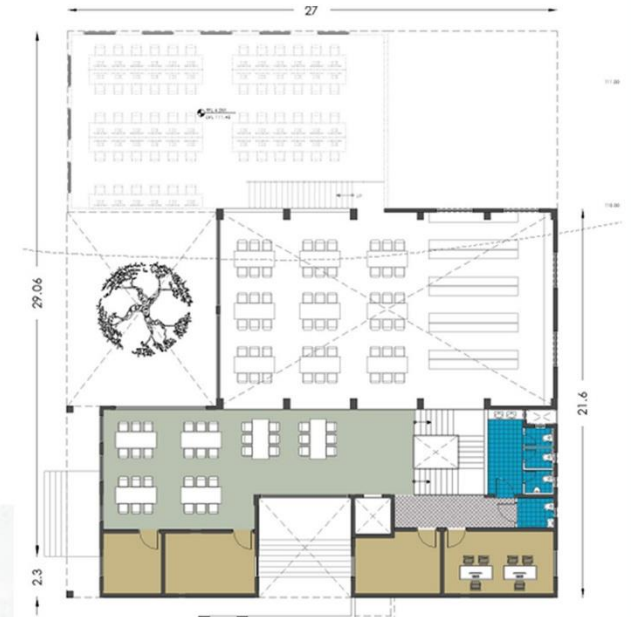




LIBRARY BUILDING



GROUND FLOOR PLAN



FIRST FLOOR PLAN



BUILDING SECTION



KEY PLAN

GIRL'S HOSTEL



ROOM DETAIL



ENTRANCE

EXTERNAL VIEW



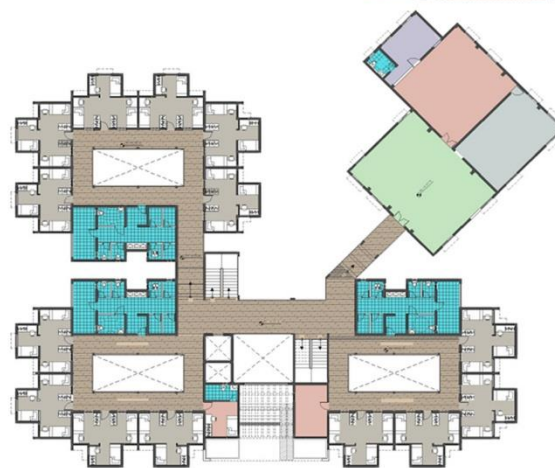
INTERNAL VIEWS



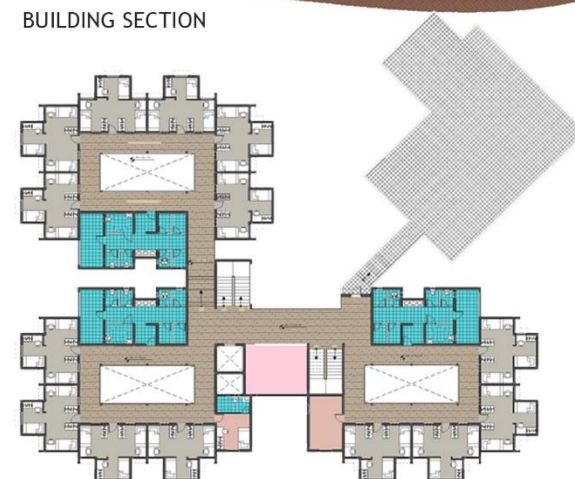
BUILDING SECTION



GROUND FLOOR PLAN

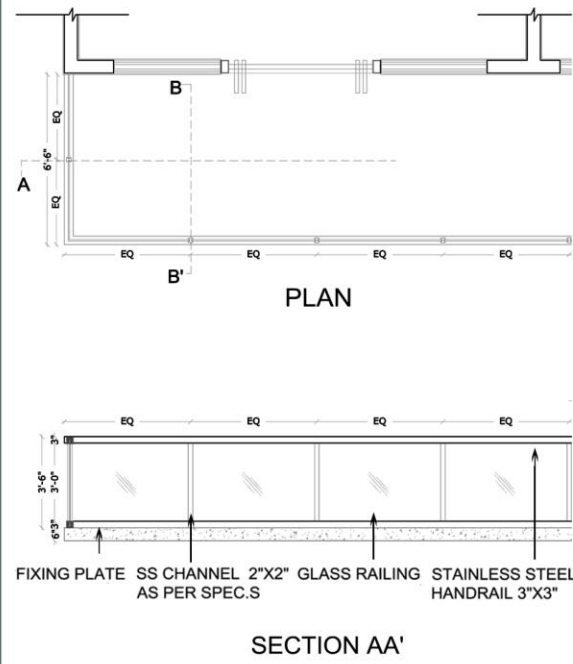
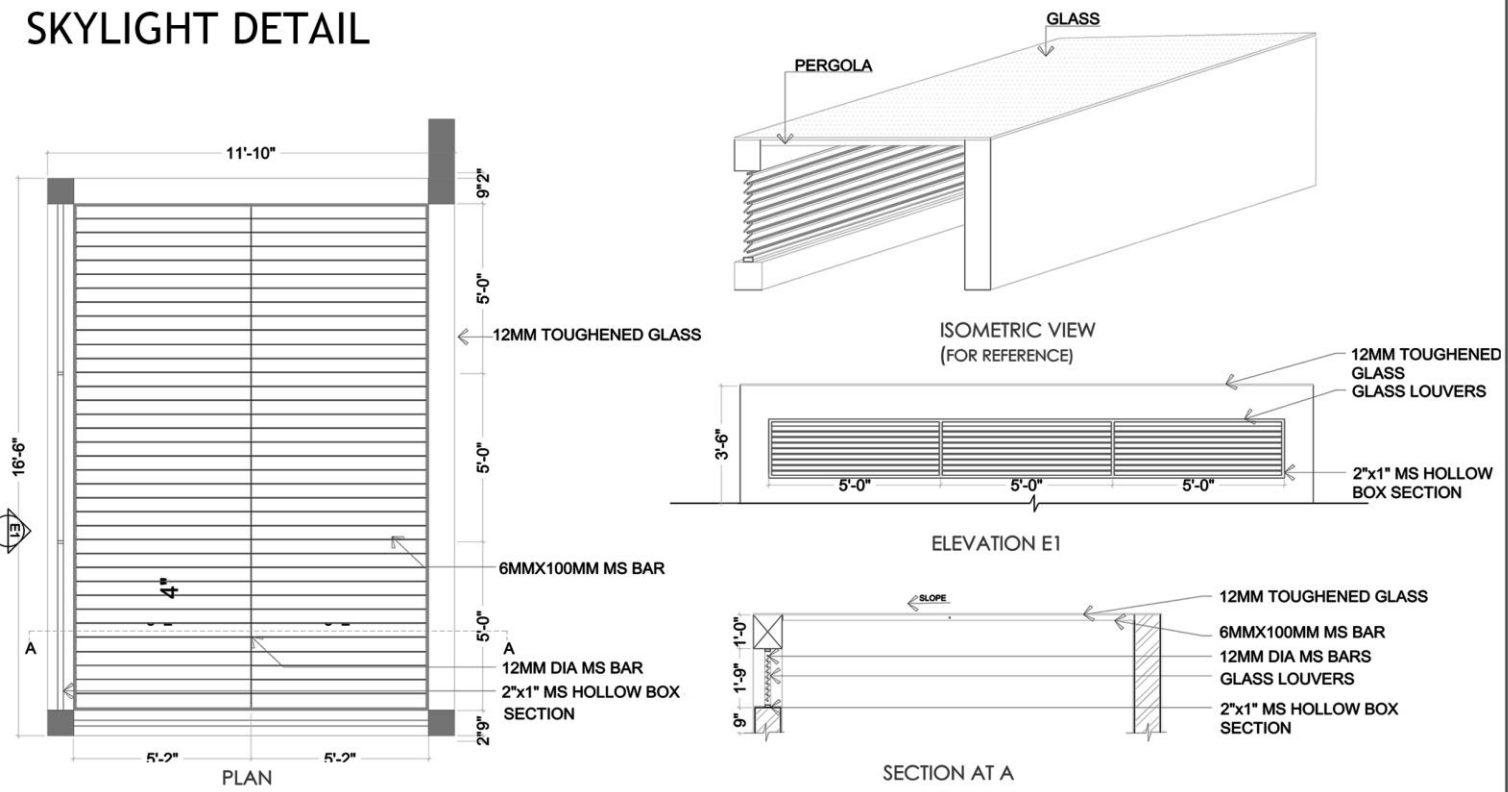


FIRST FLOOR PLAN

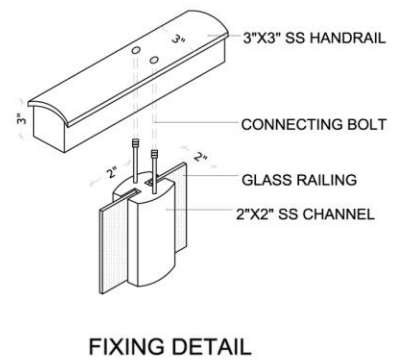


SECOND FLOOR PLAN

SKYLIGHT DETAIL



SITE PICTURES



FIXING DETAIL

SKYLIGHT AND RAILING DETAIL

CONVENTION HALL AND HOTEL CONSTRUCTION PROJECT



J.P NAGAR,
BANGALORE

PROJECT BRIEF

The site dimension is about 50'x75', proposed for convention hall, hotel and restaurant.

The site is located in heart of the city with direct access to metro.

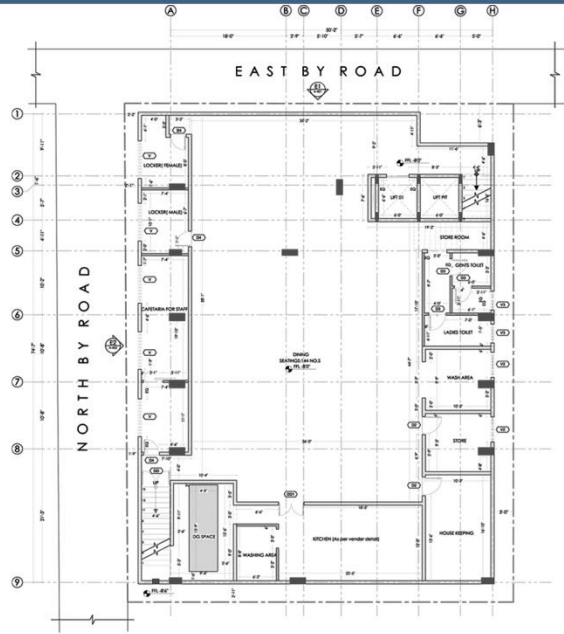
The convention hall capacity to be provided by about 200 pax, and a dining area capacity of 100 pax.

Number of hotel room should be around 45-50.

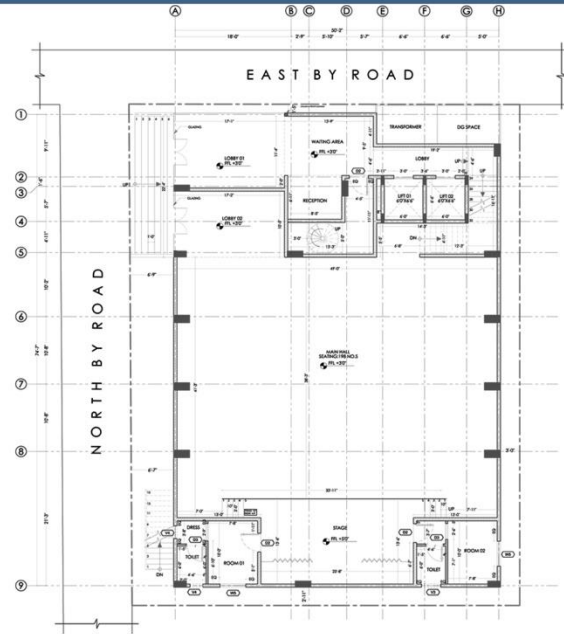
The restaurant to be provided on terrace with a separate kitchen and service on service floor.



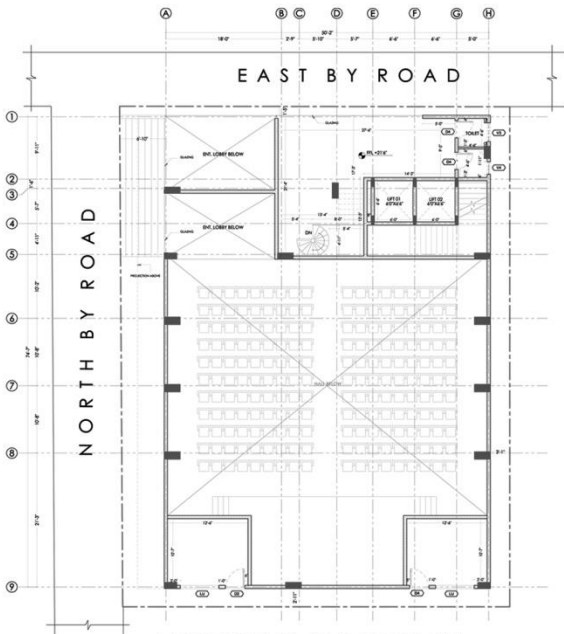
SITE PICTURES



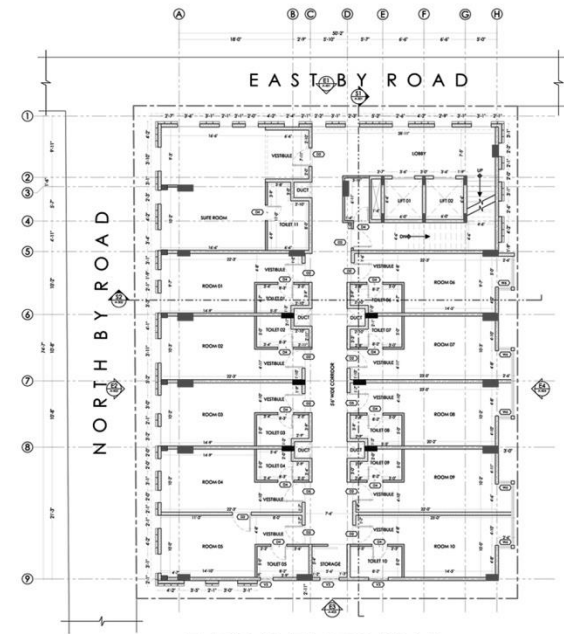
BASEMENT FLOOR PLAN



FIRST FLOOR PLAN



MEZZANINE FLOOR PLAN



TYPICAL FLOOR PLAN



BASEMENT FLOOR



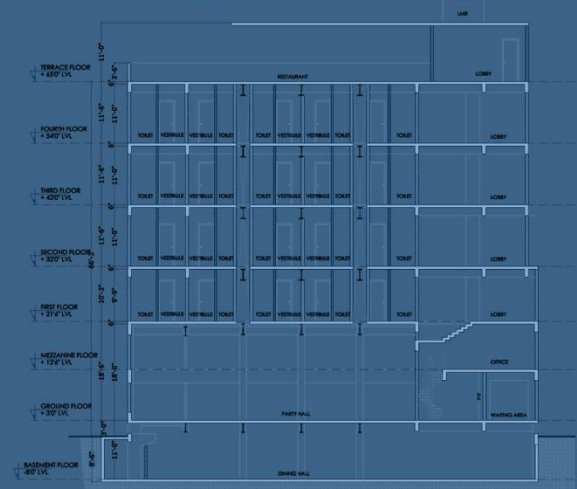
CONVENTION HALL



HOTEL ROOMS



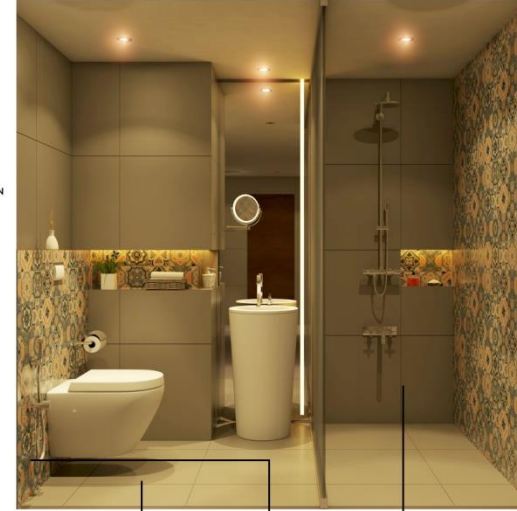
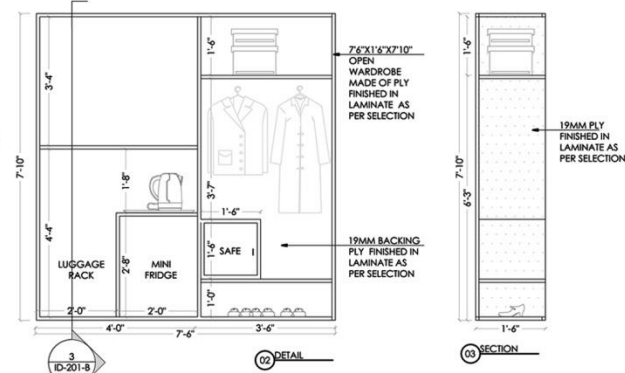
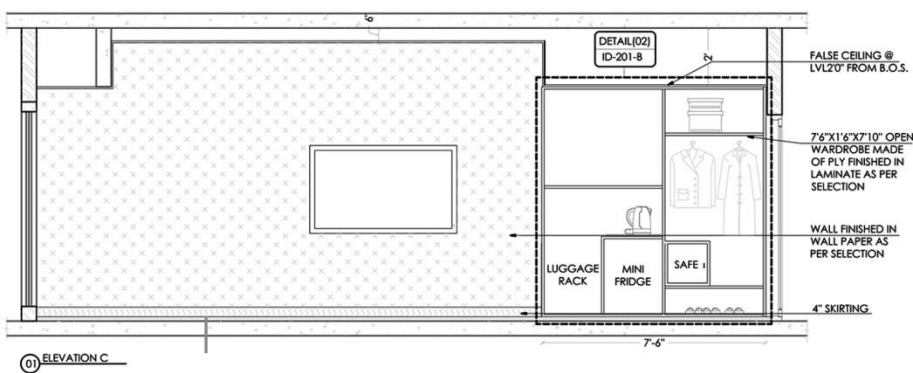
- LEGEND:**
-  6" THICK RETAINING WALL
 -  6" THICK WALL
 -  4 1/2" THICK WALL
 -  COLUMN
 -  CLADDING
 -  ELEVATION
 -  SECTION LINE
 -  GRID LINE
 -  DETAIL



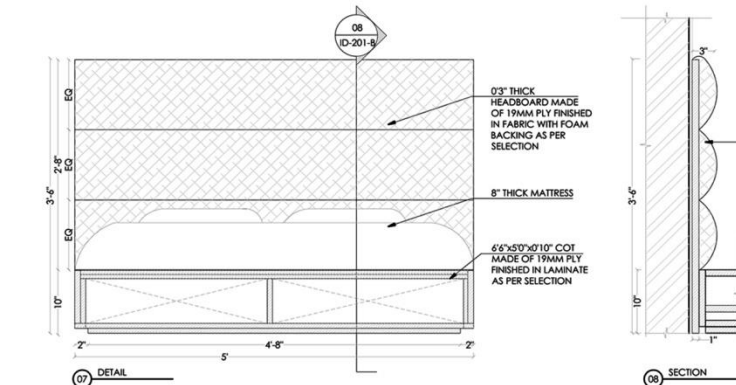
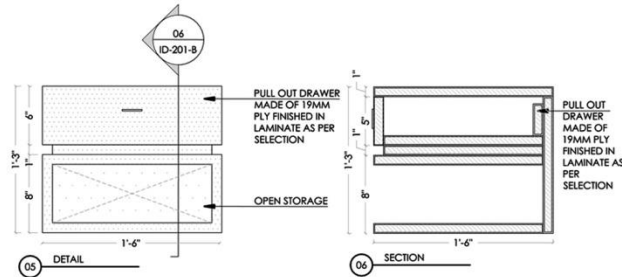
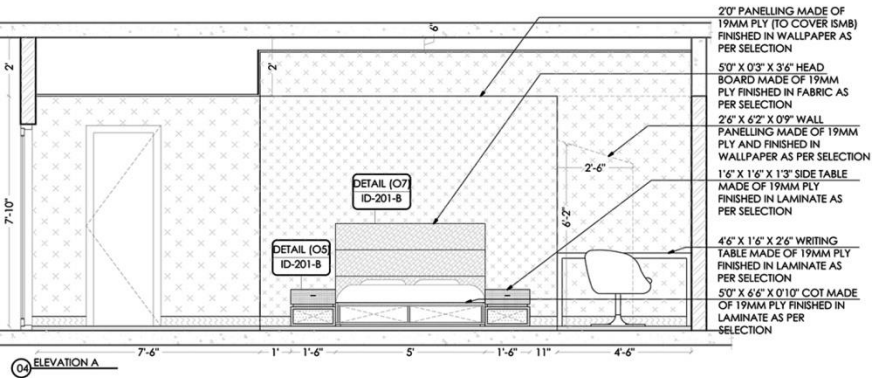
SECTION



MOCKUP ROOM -2



TOILET DETAILS



FUNITURE DETAIL



HOTEL ROOM'S VIEW



KEY PLAN



RESTAURANT

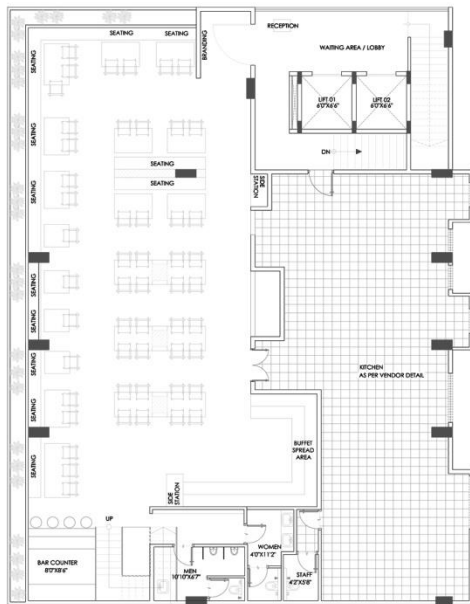
FACADE DETAILS



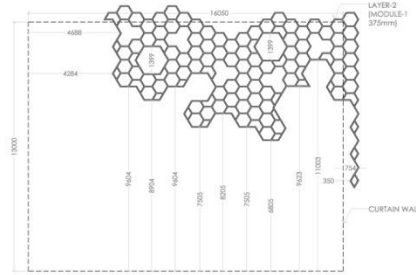
OUTDOOR DINING



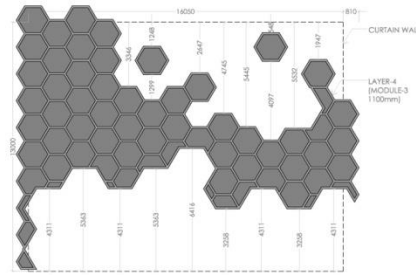
INDOOR DINING



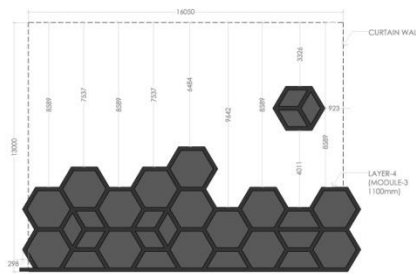
PLAN



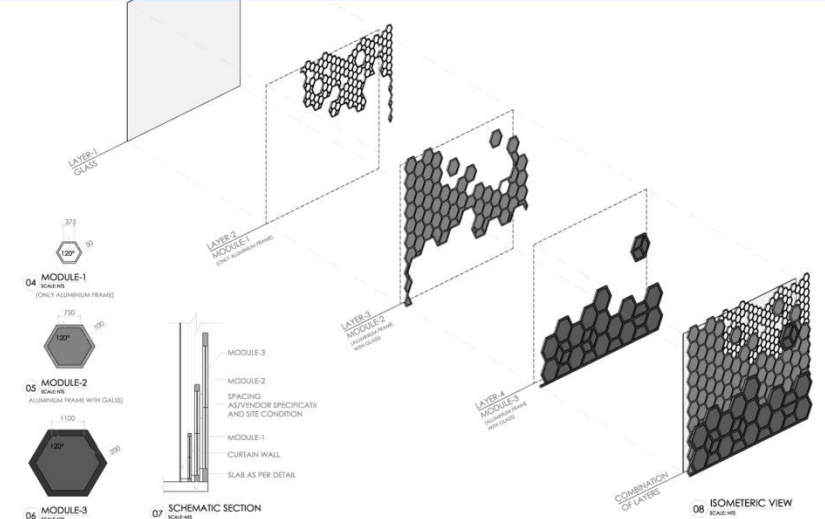
01 MODULE-1 ARRANGEMENT (ONLY ALUMINUM FRAMES)



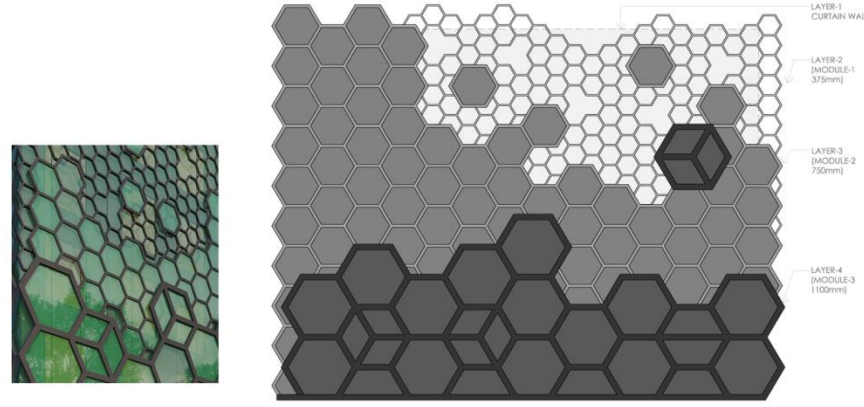
02 MODULE-2 ARRANGEMENT (ALUMINUM FRAMES WITH GLASS)



03 MODULE-3 ARRANGEMENT (ALUMINUM FRAMES WITH GLASS)



08 ISOMETRIC VIEW



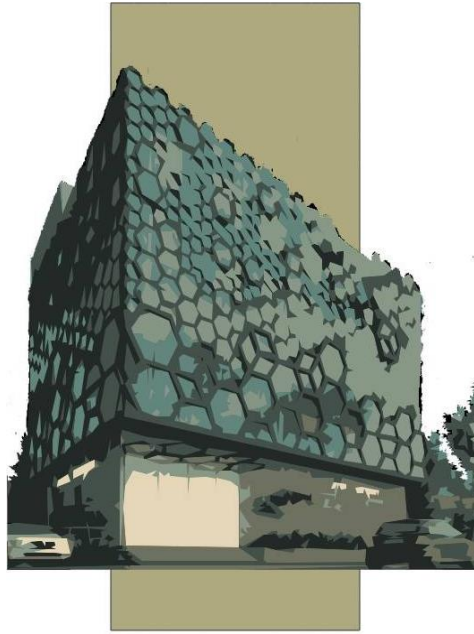
09 EAST SIDE ELEVATION



FACADE

SITE PICTURES





THANK YOU

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