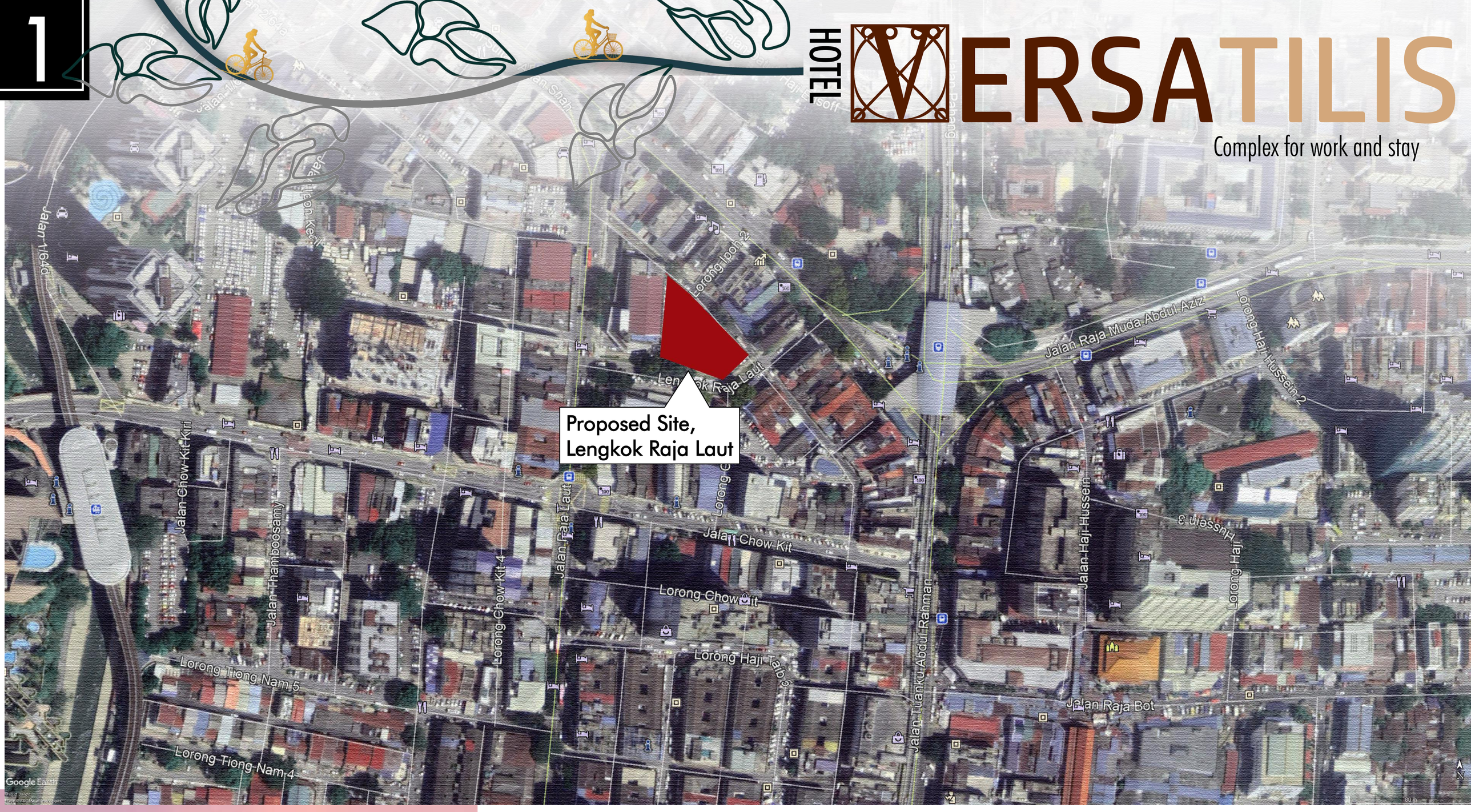
1

HOTEL VERSATILIS

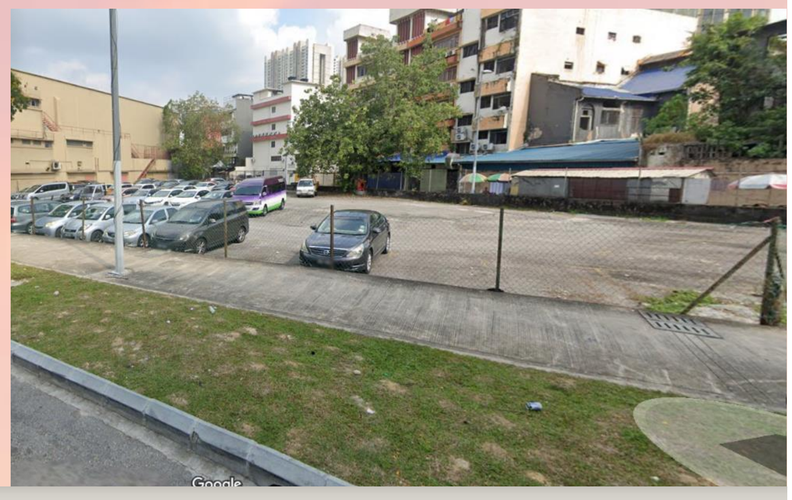
Complex for work and stay

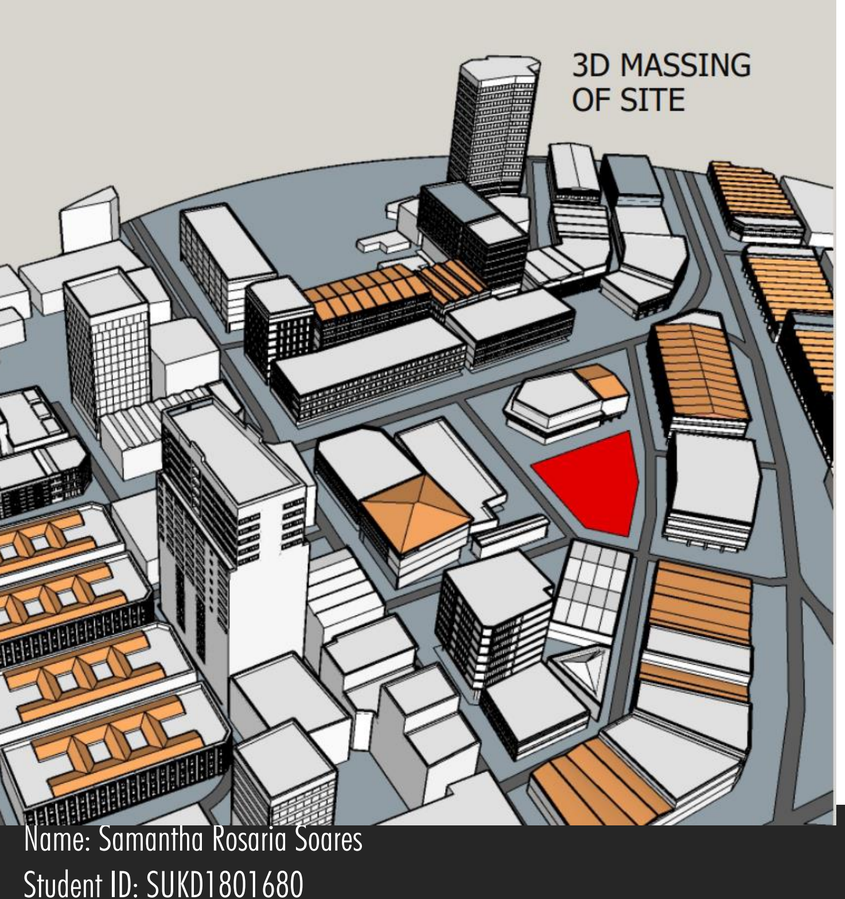


//INTRODUCTION

In this project, a travelers hotel is to be designed in a parking lot that is located near Lenkok Raja Laut, Chow Kit. Being an area of culture , there is a potential to invite various users to the site for business, travel and fun. The hotel to be designed will not simply be a place to stay but also a place that provides a platform for various other activities. It will also seek to remove social differences that ma exist due to the history of the site.

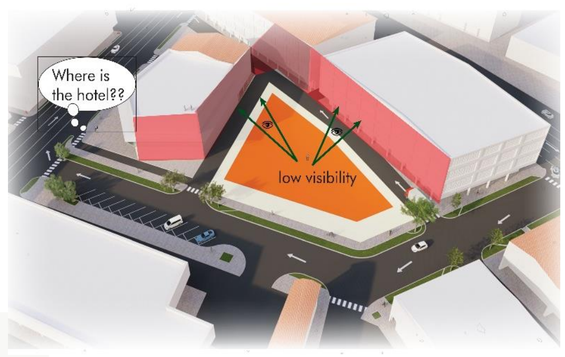
//ABOUT SITE





//SITE ISSUES

Insignificant traffic can cause pollution and user discomfort

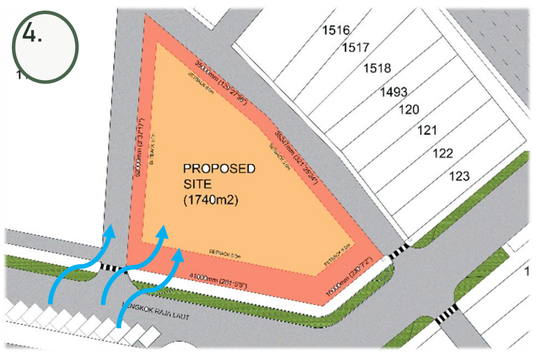


Low visibility may deter users form the site

Presence of competing hotels may decrease hotels profit.

//SITE FORCES

Abundance of Sunlight from south due to absence of tall buildings



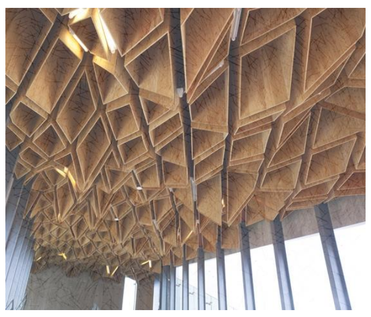
Prevailing winds from south west

Presence of transportation system invites more users to the site.

//DESIGN INTENT

The aim of designing the hotel is to create spaces that maximize user comfort as well as maintain sustainable strategies to improve the buildings performance later on. Towards the left are some strategies that will be used in the hotel design to met the above requiremnets.

Plant creepers to improve air quality and provide shade



Coffered ceiling to improve acoustics

Sun Shading devices

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Course: Design Studio 5
Course Code: ARC 3317

Academic Year: Feb 2021-May 2021

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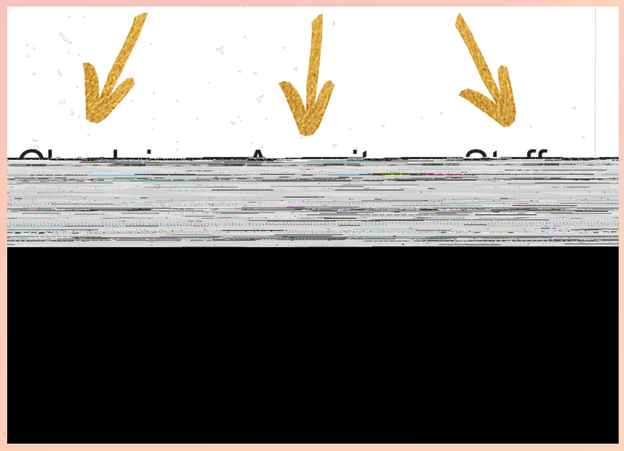
//DERIVING THE CONCEPT

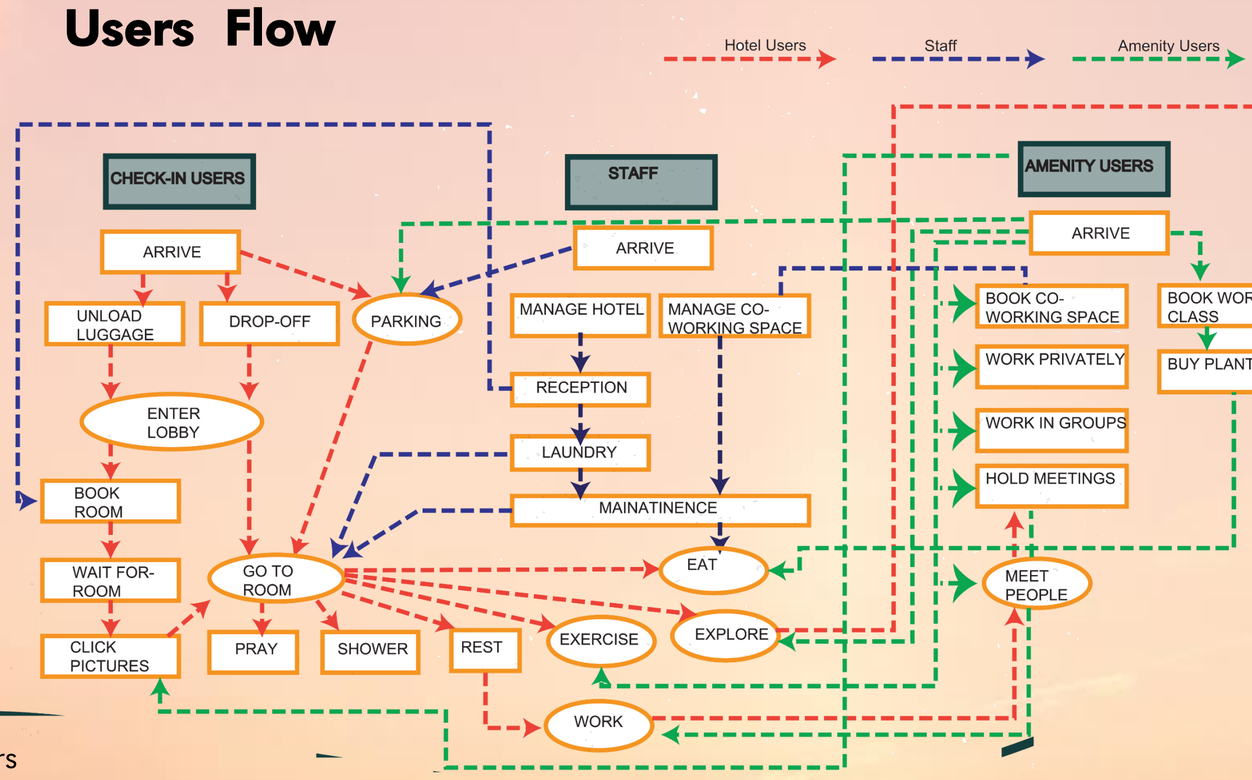
Type of Users

1. Business Travelers
2. Leisure Travelers
3. Families
4. Elderly
5. Backpackers
6. Staff
7. Office Workers
8. Students

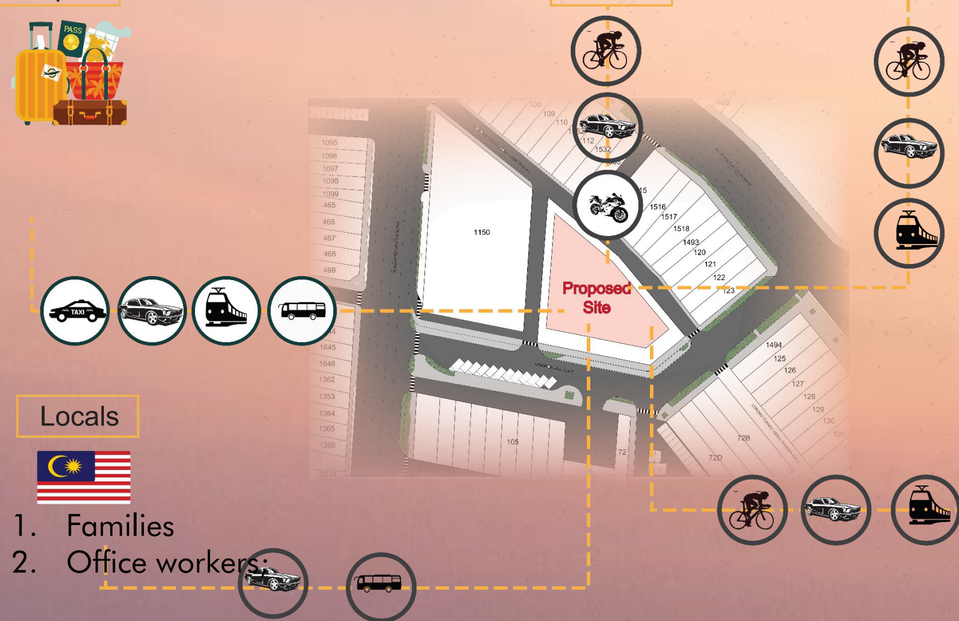
These can be divided into the following main types:



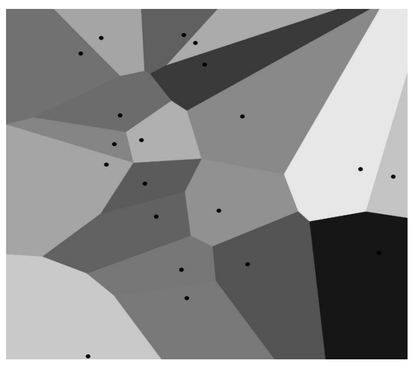
Users Flow



Users Vehicular Flow



//DESIGN INSPIRATION



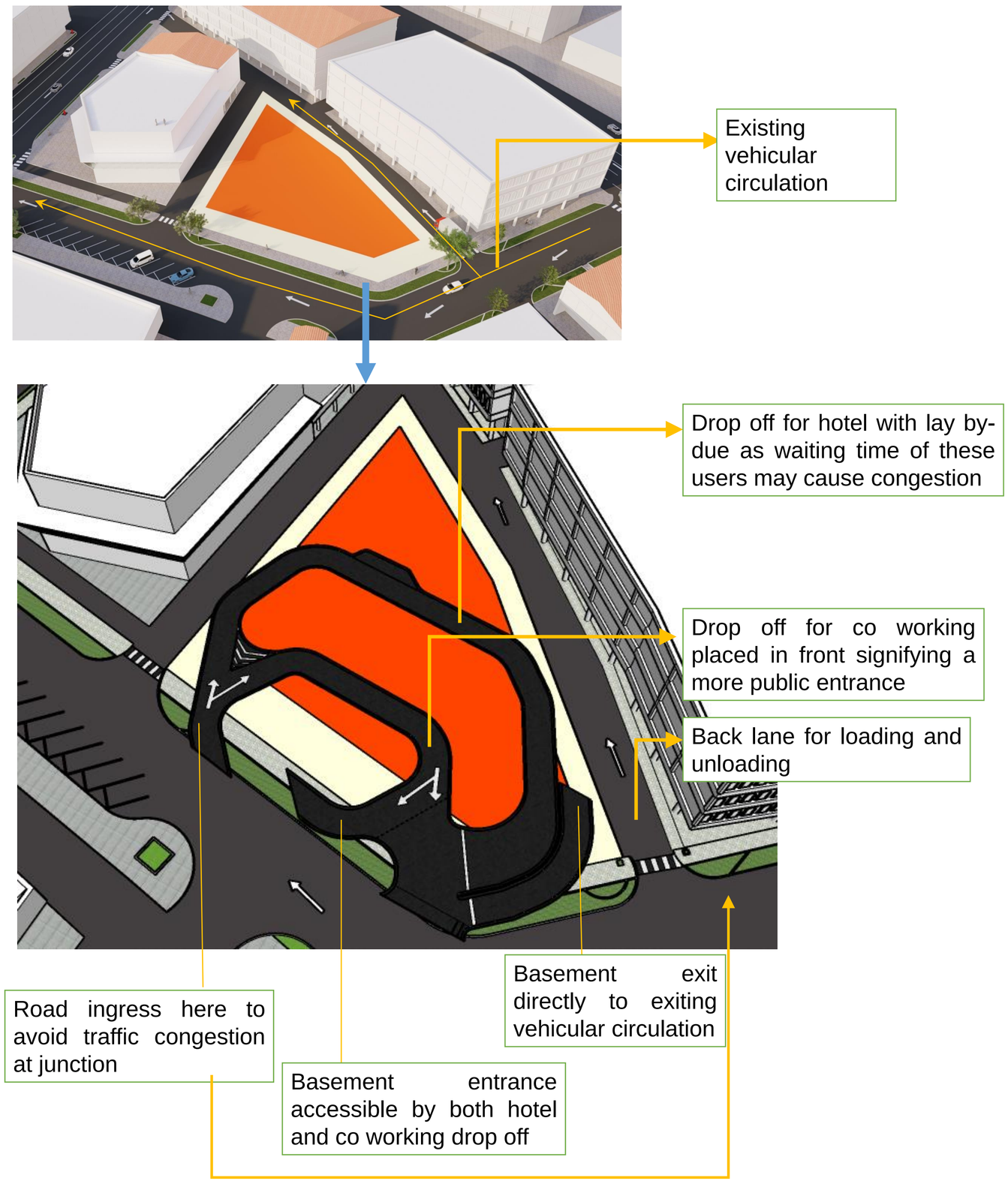
This study closely relates to how users may connect with each other in scenarios where they may know or not know each other. From the above categories I would like to use Voronoi distribution and shape shifter distribution.

Voronoi Distribution are closely related to Voronoi diagrams in which a whole area is divided into regions, where each region has a central point. I would like to incorporate this spatial arrangement in my design where each space has a central focal point which may express what that space may co-relate too or utilize masterpieces that celebrate the culture of chow kit.

//CONCEPT

The concept that I have formulated from the above stages is to create spaces which fit the sentiments of the people as well as unite them. This can be done by creating a seamless harmony with various spaces with the help of minimal usage of wall barriers and through open spaces.

//SPATIAL ARRANGEMENT (vehicular)



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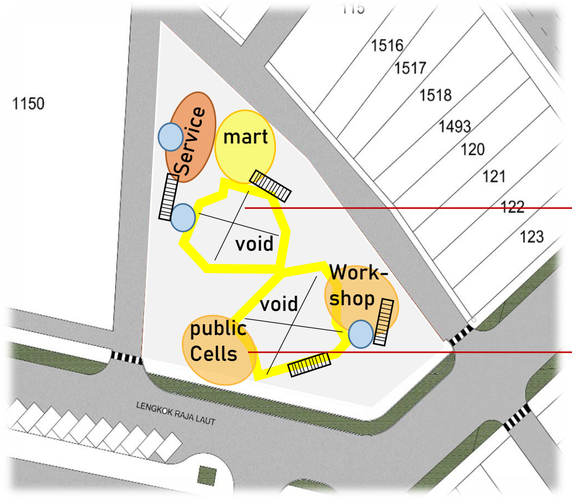
//SPATIAL ARRANGEMENT (bubble diagram of spaces)

Ground Floor

Back lane used **for loading bay** as it avoids the mixture of cars (users)and trucks(things) and does not require views.

A **café** is oriented towards the south to invite users to the site and incorporate daylight.

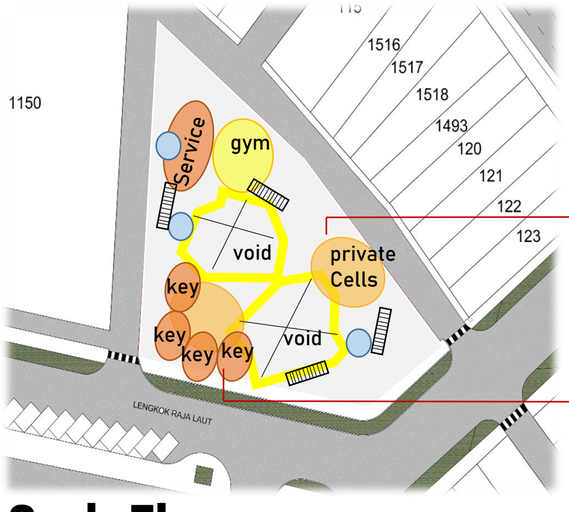
Landscape to draw in users, reduce urban temperatures



1st Floor

Atrium spaces boost daylight, visual comfort and ventilation

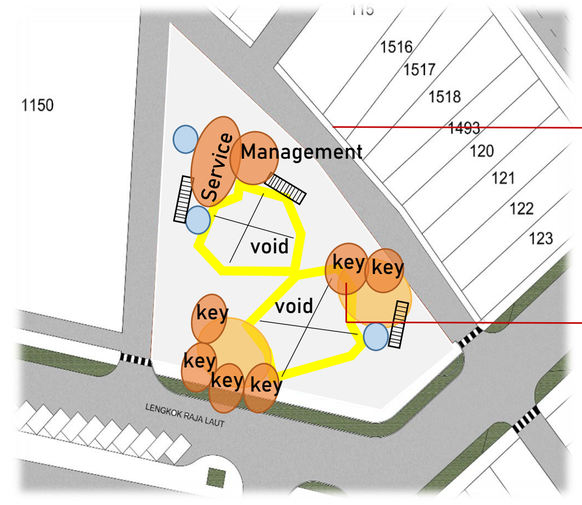
Co working spaces lie on the south-east to incorporate daylight and ventilation



2nd Floor

Private cells incorporated towards the east, facing the back lane- reducing noise.

The **keys** are located facing Jalan Lengkok Raja Laut to utilize potential views as well as daylight.



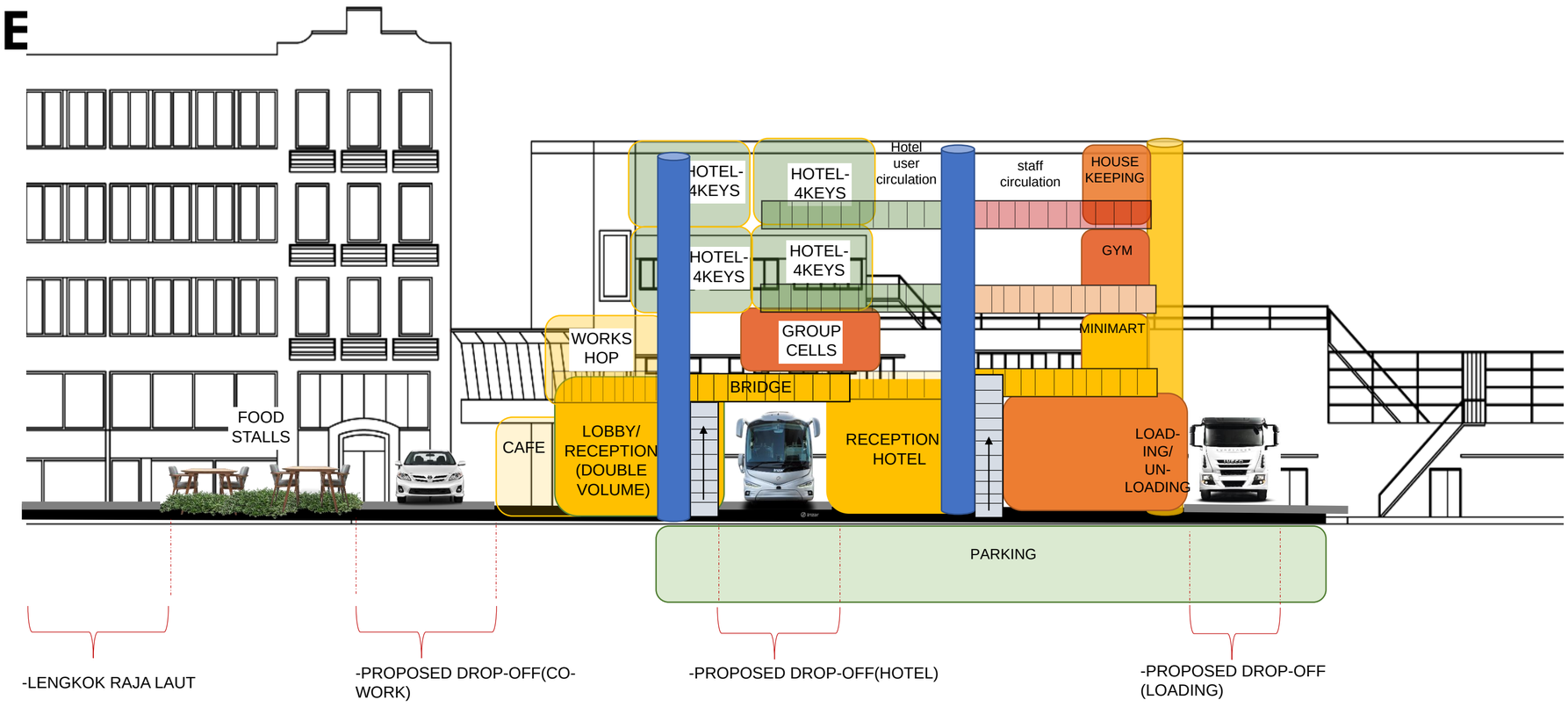
3rd Floor

Management and **staff spaces** placed at the back to maximize privacy and security.

The **keys** are used for families/ group travelers, segregating those who may come for work activities from leisure activities.

//VERTICAL BUBBLE DIAGRAM

- Public Spaces
- Semi- Private Spaces
- Private Spaces
- Vehicle movements
- Elevator
- Service elevator
- Stair



//SOA

The following schedule of area was produced to control the area of various spaces when designing the hotel. .

SPACES	NO. OF SPACES	FLOOR LEVEL	FLOOR AREA (m^2)	FLOOR AREA (%)	NO. OF OCCUPANTS	COMMENTS
Pick up/Drop off: CO-WORKING	1	G	nil	nil	4	2 cars- 16m x 3.5m, Security -1.5 m^2, circulation - 2.5 m x 1.5m
Pick up/Drop off: HOTEL	1	G	nil	nil	6	2 cars/ 1 bus- 18m x 3.5m, Security+Valet - 3 m^2, circulation - 4 m x 1.5m
Lobby: CO-WORKING	1	G	60	6.6	15	People waiting + rentable space - small events : 20m^2 - circulation, per person- 1.5 - m^2
Lounge: HOTEL	1	G	40	4.4	10	People waiting : 16m^2 - circulation, per person- 1.5 - m^2
Reception: co-working	1	G	6.5	0.7	2	2.6m^2 - circulation, per person- 1.5 - m^2
Reception: hotel	1	G	6.5	0.7	2	2.6m^2 - circulation, per person- 1.5 - m^2
Public Toilet (M/F/A)	2	G	11	1.2	3	male /female /each - 2m^2, accessible-3.3 m^2, circulation
Cafe	1	G	60	6.6	30	main cafe - 50m^2, bicycle station (drinks)- 10m^2 (cycle racks outsides)
Parking	1		nil	nil		staff- 12 spaces(car/motobike), hotel users- 15 spaces
Open Renting Space	1	G	nil	nil		open space in lobby for small events
Horticulture	1	1	45	5	12	per Staff- 2m^2 per Student-1.7m^2 , storage- 4m^2, Circulation-13.5m^2
Office space- public cells	1	1	100	11.1	40	Consist of thinking zone and group cells^2
Office space- Toilet	3	1	10	1.1	3	male /female /each - 2m^2, accessible-3.3 m^2, circulation
Mart	1	1	19	2.1	6	minute made food and beverage and other necessities

SPACES	NO. OF SPACES	FLOOR LEVEL	FLOOR AREA (m^2)	FLOOR AREA (%)	NO. OF OCCUPANTS	COMMENTS
Gym	1	2	50	5.5	15	People waiting + rentable space - small events : 20m^2 - circulation, per person- 1.5 - m^2
Private cells	1	2	60	6.6	15	Meeting room- 6 people/ 4 people Private cells- 4 people
Type A-Keys	6	2/3	96	10.6	1	Single bed- furnished with tv and and working space-12m^2 , bathroom- 4 m^2
Type B-Keys	6	2/3	120	13.3	10	double bed- furnished with tv and and working space-16m^2 , bathroom- 4 m^2
Type C-Keys	2	2/3	36	4	2	single bed bathroom- 4 m^2
Type D-Keys	2	2/3	52	5.7	2	double furnished with tv , bathroom- 6 m^2
Management Office	2	3	15	1.6	5	5 working staff- 1.3m^2 /per person, circulation-30%
CCTV	1	3	3	0.3	1	located in management office
Laundry	1	3	10	1.1	3	for hotel
Storage	1	3	30	3.3	4	consists of janitors closet, housekeepingarea
Mechanical and electrical	1	B	4	0.4		loacted in basement
Loading Bay	1	G	16	1.7		5 working staff- 1.3m^2 /per person, circulation-30%
Elevators	4		10	1.1		Co-working-2 hotel-1, service elevator
Refuse Chamber	1	G	5.7	0.63	2	per garbage chute- 1.35m^2 , circulation- 3 m^2

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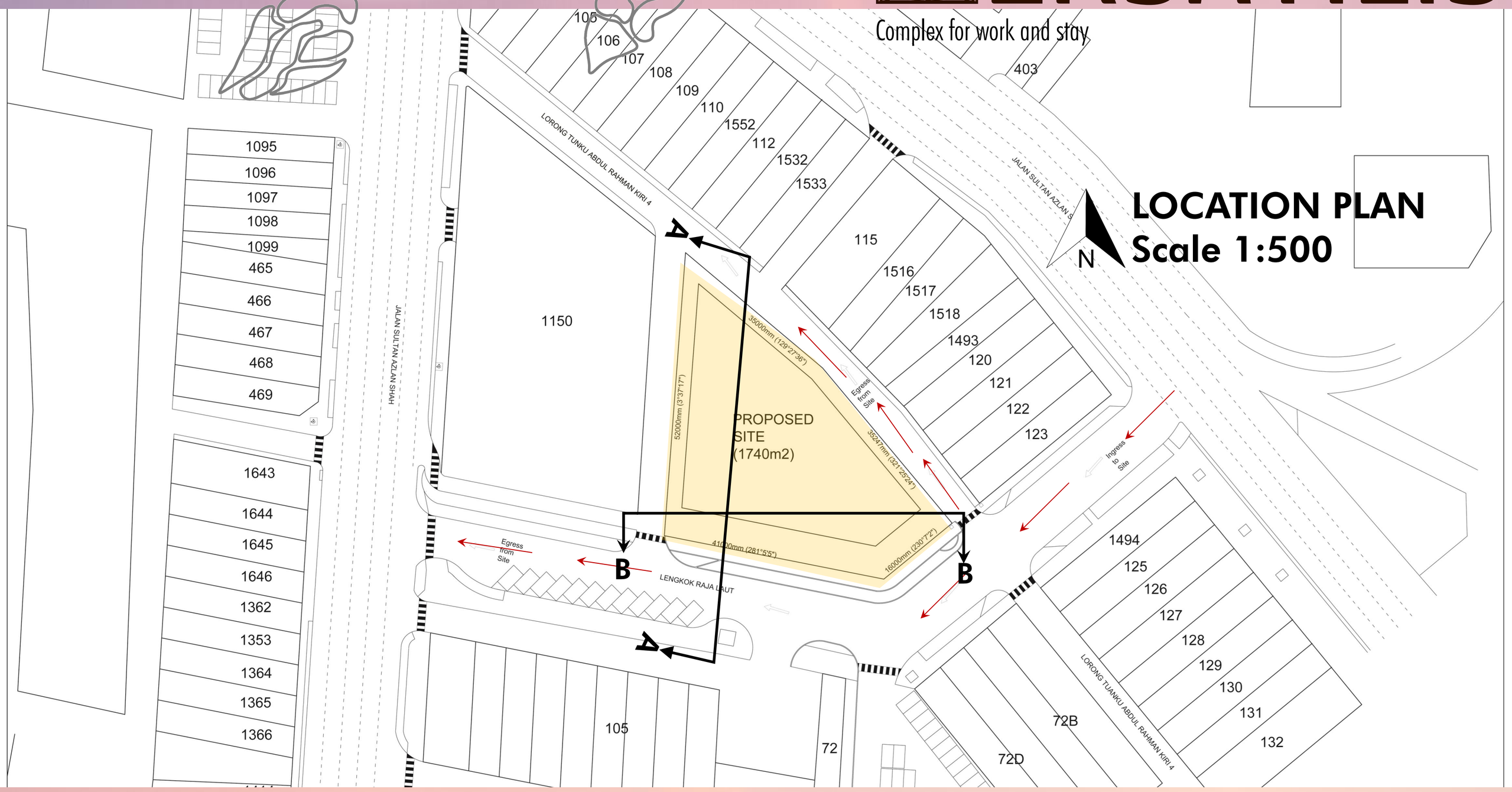
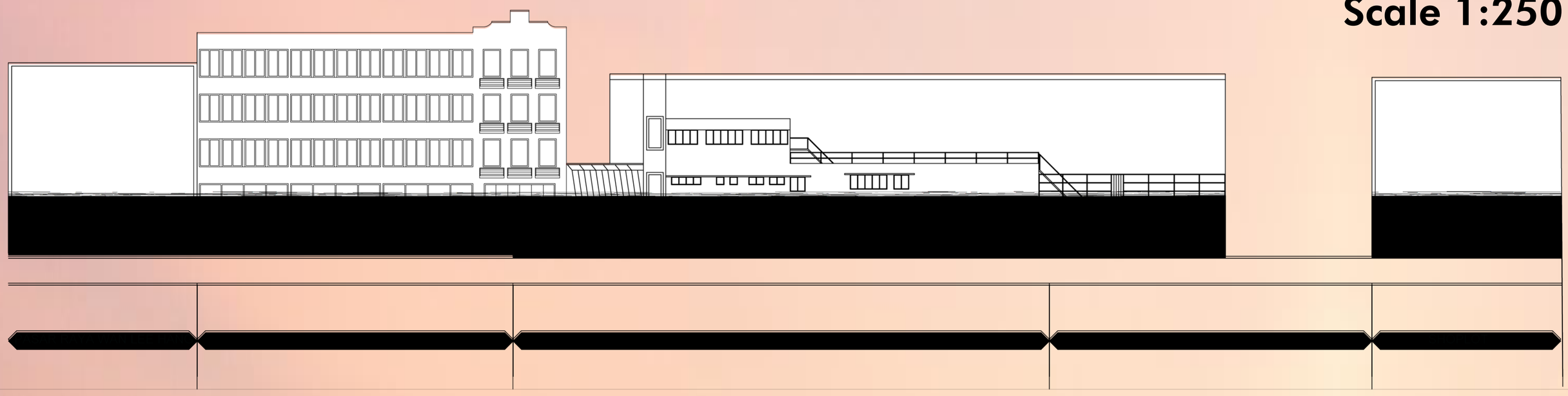
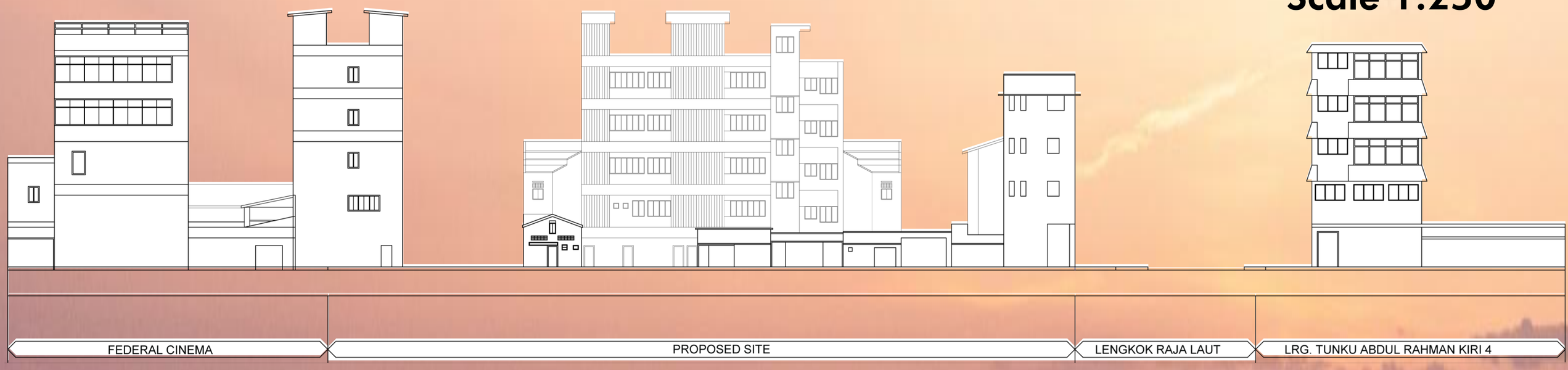


LOCATION PLAN
Scale 1:500

SECTION A-A
Scale 1:250



SECTION B-B
Scale 1:250



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HOTEL VERSATILIS

Complex for work and stay

SITE PLAN & ROOF PLAN

Scale 1:200

N

LORONG TUNKU ABDUL RAHMAN KIRI 4

JALAN SULTAN AZLAN SHAH

SUN PATH

35000mm (129°27'36")

52000mm (3°37'17")

35247mm (321°25'24")

41000mm (281°5'5")

16000mm (230°7'2")

Egress from Site

Egress from Site

PREVAILING WINDS FROM THE SOUTH-WEST

SCALE BAR 1:200

0 5 10 20 30 40

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HOTEL VERSATILIS

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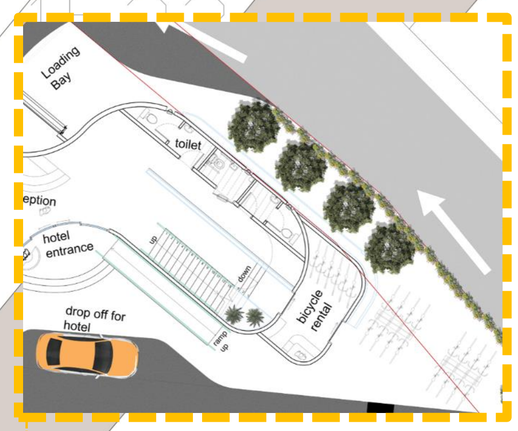
GROUND FLOORPLAN
Scale 1:150

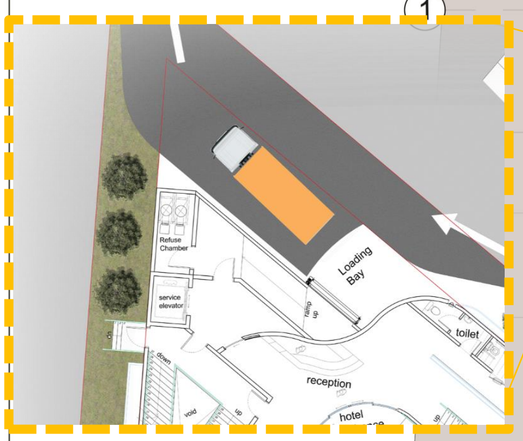
N

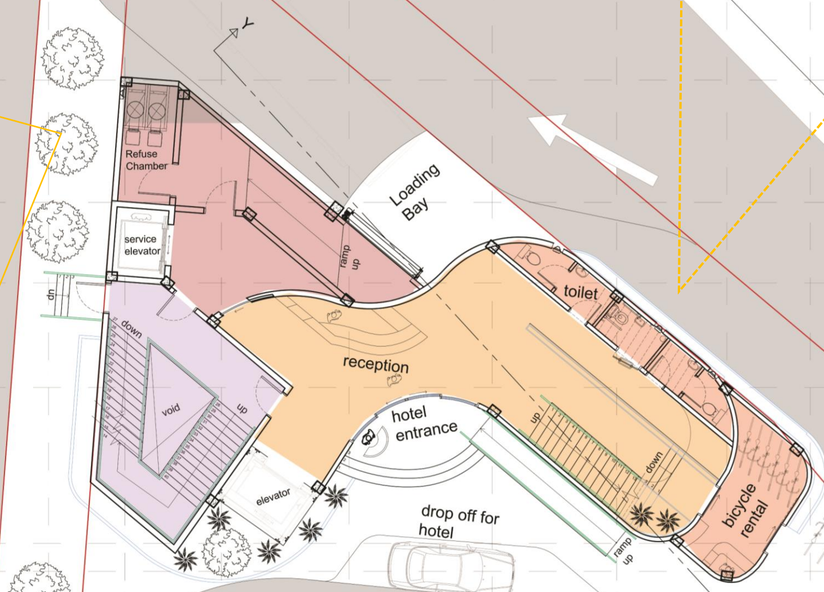
- SEMI-PRIVATE SPACES
- PUBLIC SPACES
- STAIRS
- PRIVATE SPACES



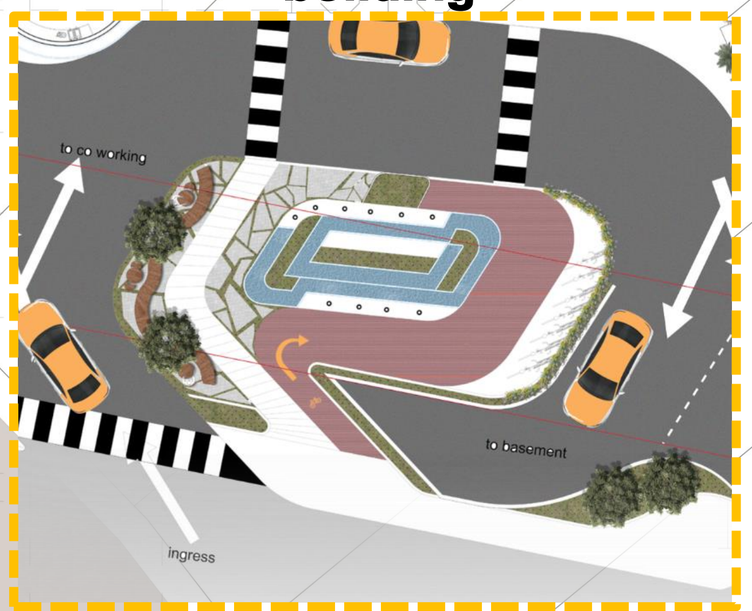
Landscape near toilets

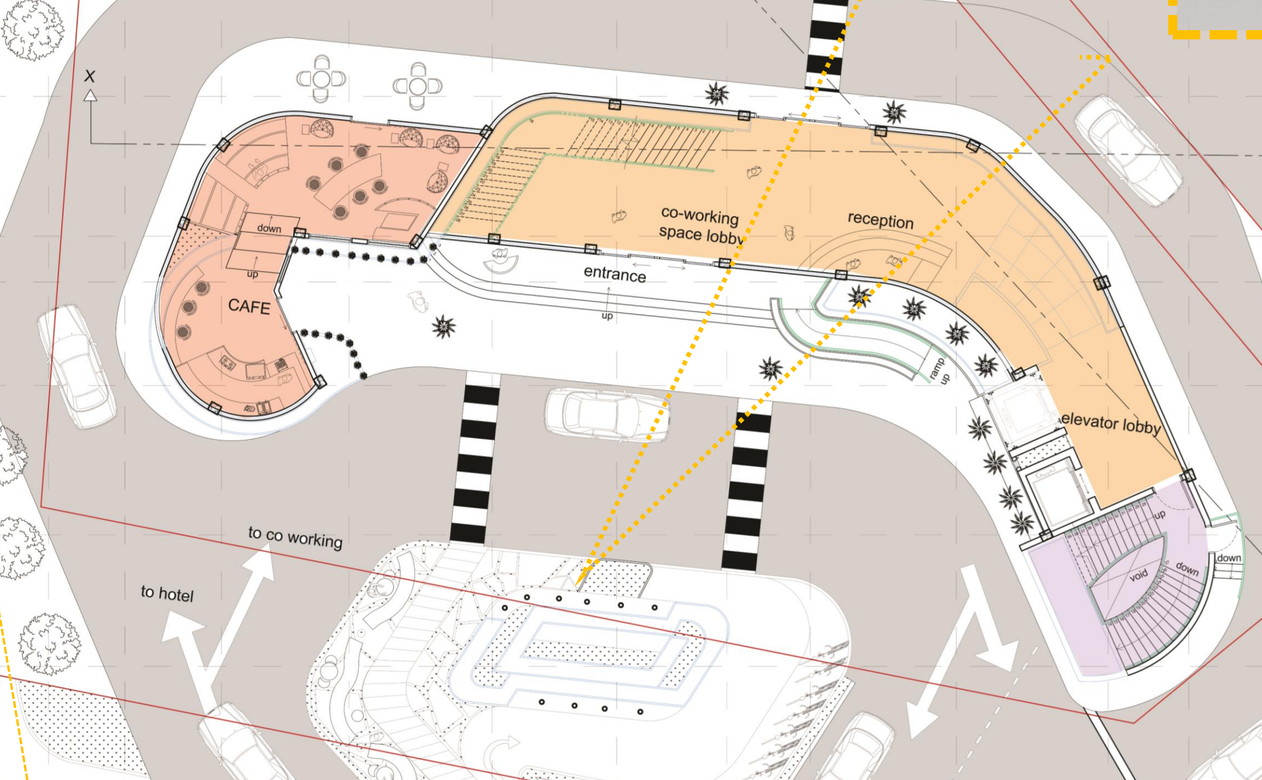
Landscape near Refuse chamber



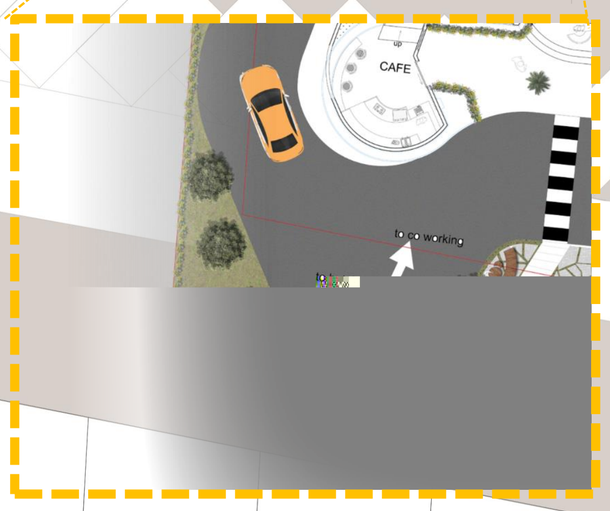


Landscape in Front of the building

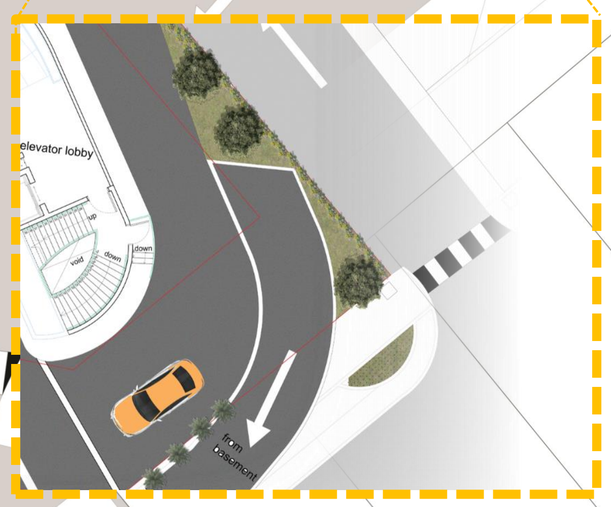




Landscape in Front of the building



Landscape in Front of the building



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HOTEL VERSATILIS

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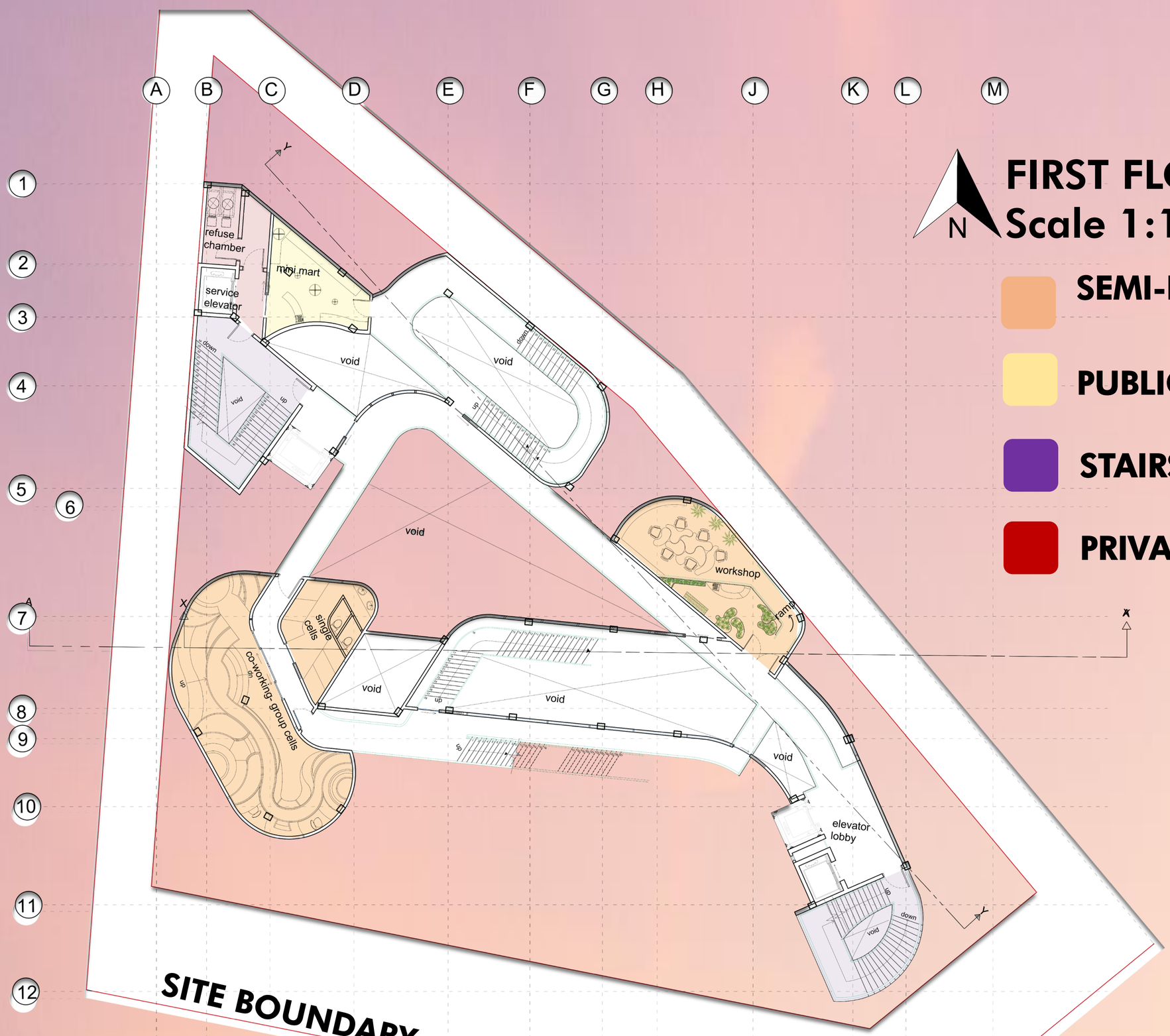


FIRST FLOORPLAN
Scale 1:150

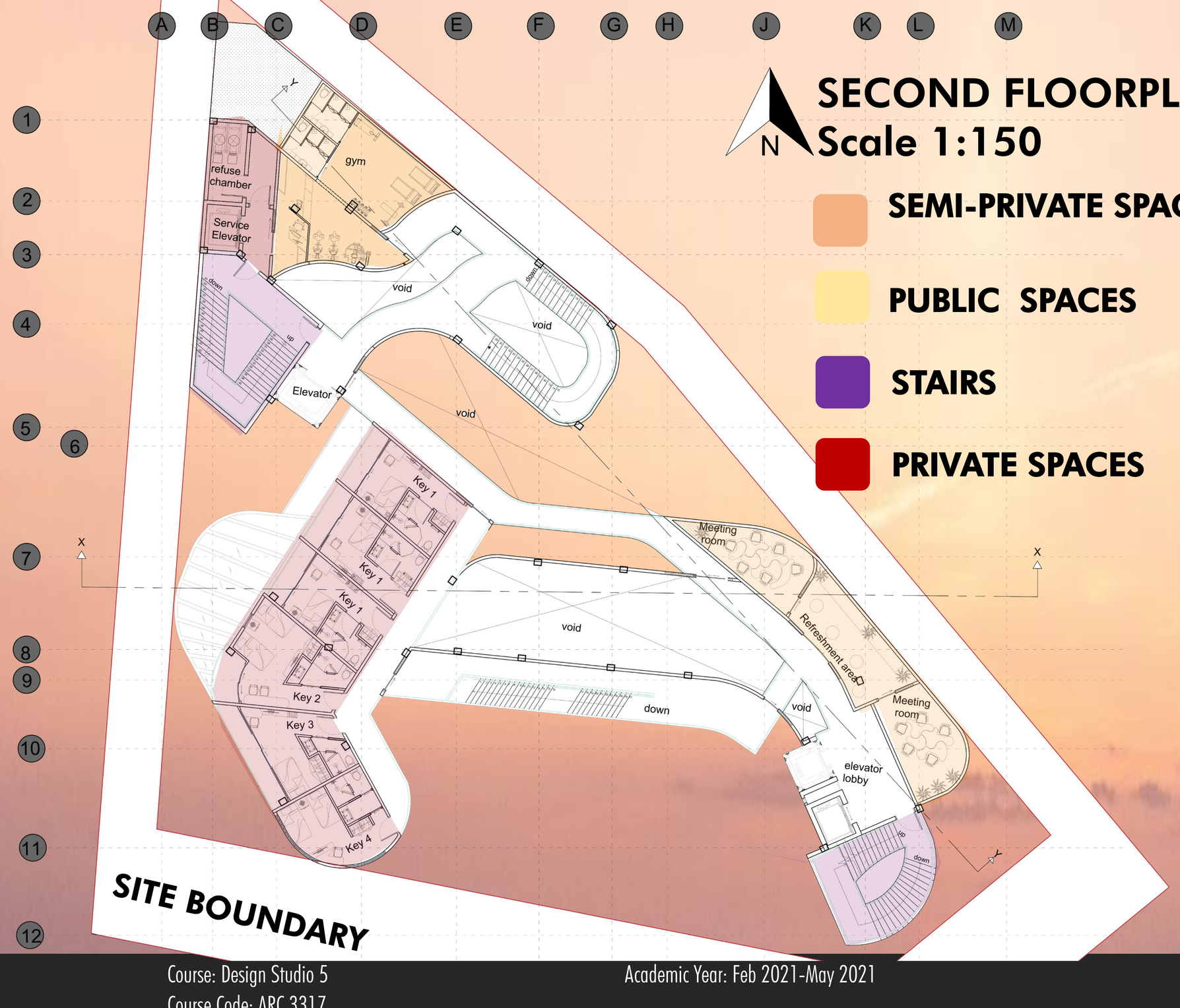
N

SEMI-PRIVATE SPACES

PUBLIC SPACES

STAIRS

PRIVATE SPACES



SECOND FLOORPLAN
Scale 1:150

N

SEMI-PRIVATE SPACES

PUBLIC SPACES

STAIRS

PRIVATE SPACES

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HOTEL VERSATILIS

Complex for work and stay

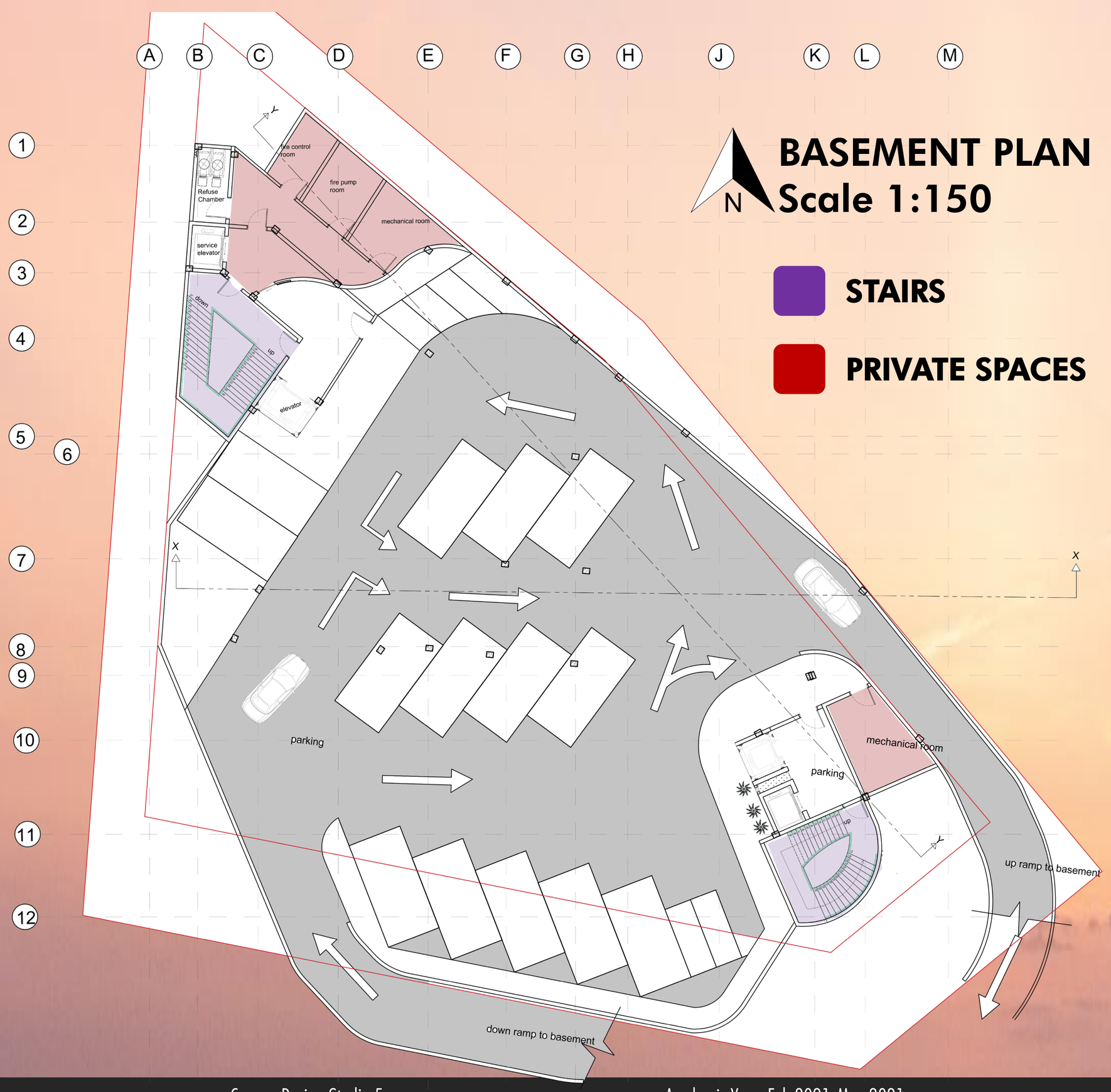
THIRD FLOORPLAN
Scale 1:150

N

GREEN ROOF

STAIRS

PRIVATE SPACES



BASEMENT PLAN
Scale 1:150

N

STAIRS

PRIVATE SPACES

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HOTEL VERSATILIS

Complex for work and stay

Galvanized Plant Boxes are utilized to shade various spaces in the corridors.

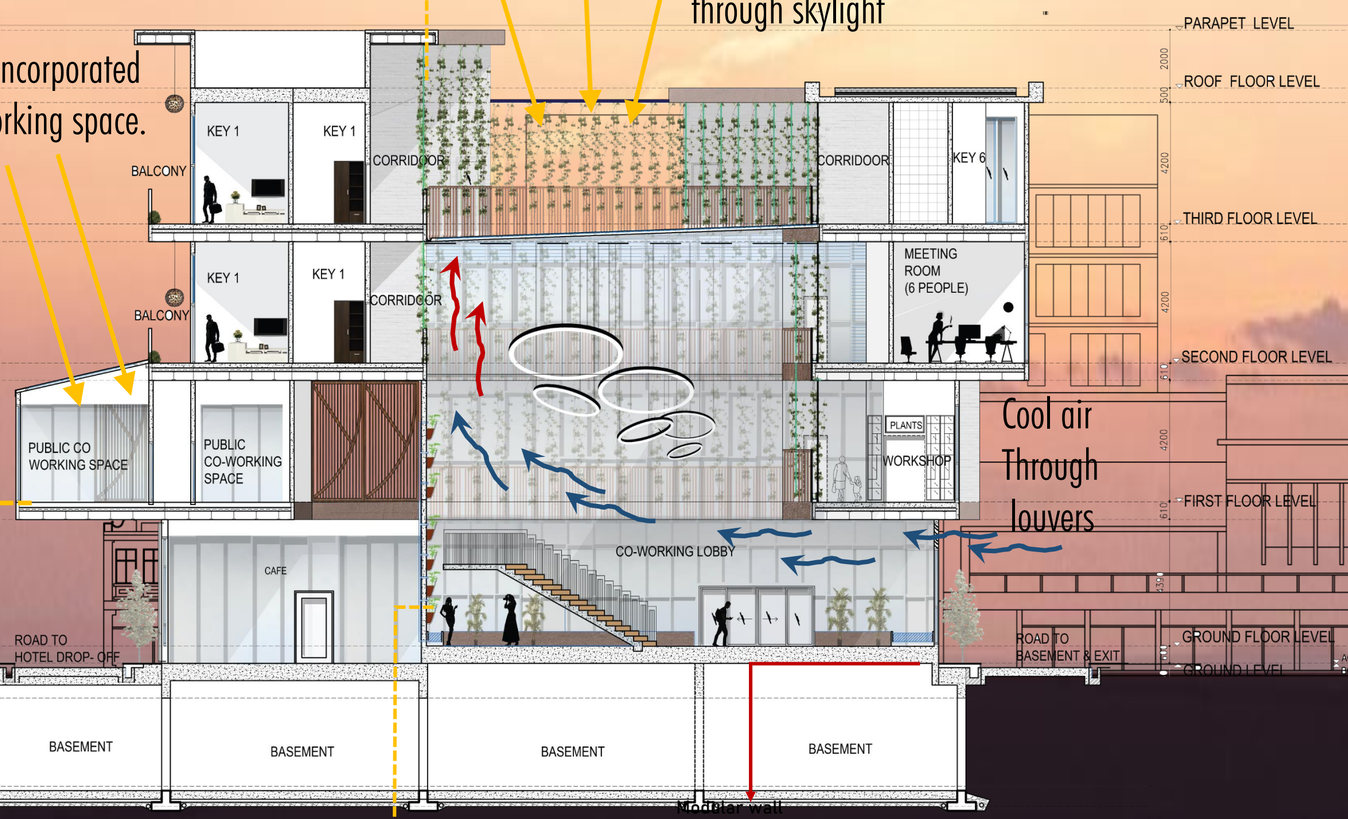
Improves air quality and aesthetics as they are a flowering vine and are suited for humid climates

Evergreen vine that reduces airborne pollutants especially benzene that is found in work areas

Not only purifies pollutants like carbon monoxide, benzene, formaldehyde but also eliminates odors.

Sunlight incorporated in co- working space.

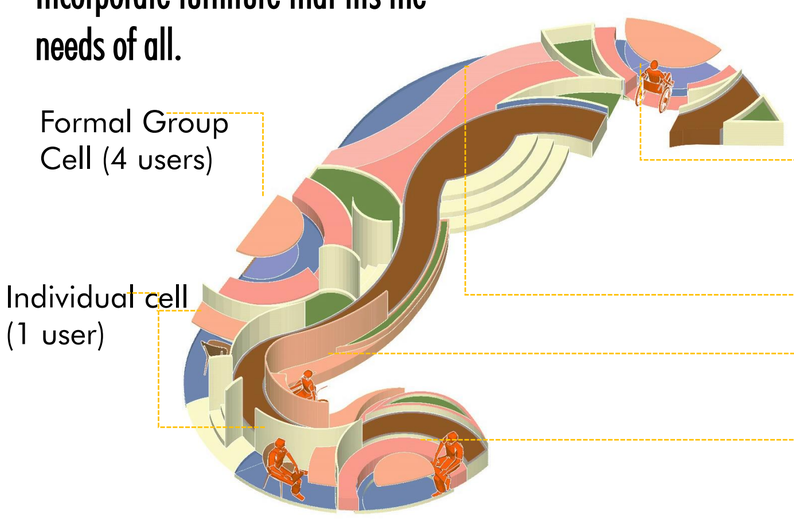
Sunlight incorporated through skylight



Cool air Through louvers

SECTION X-X
Scale 1:150

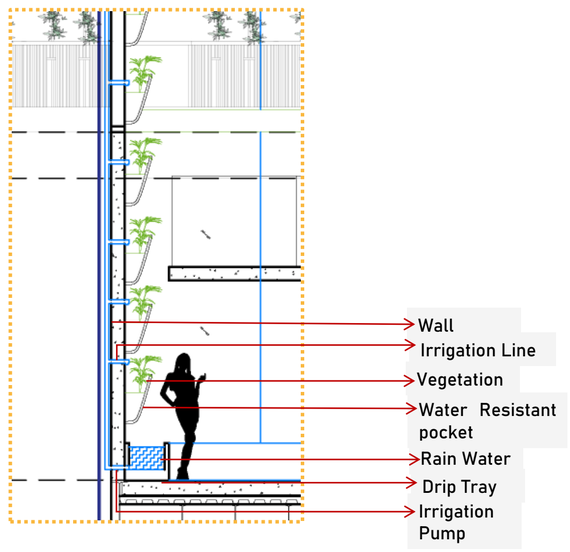
Incorporate furniture that fits the needs of all.



Plants boxes in Lobby

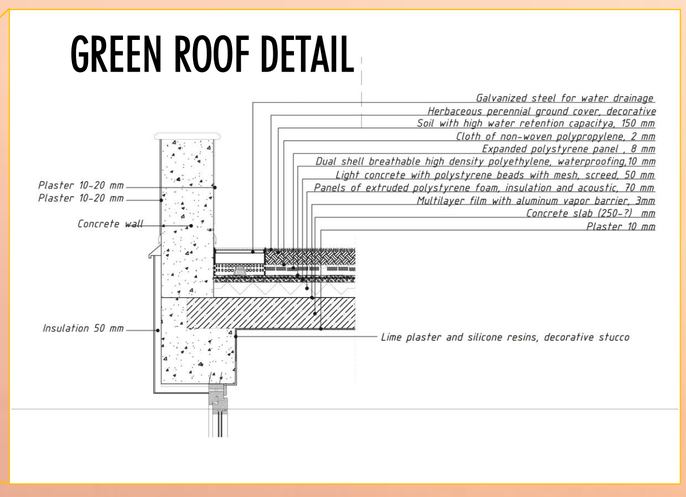
Green walls helps keep the air clean

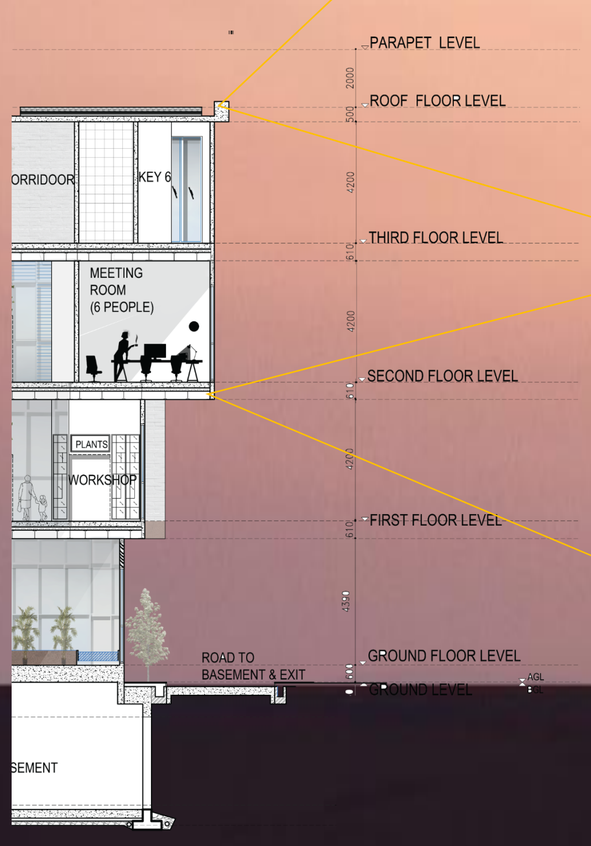
.

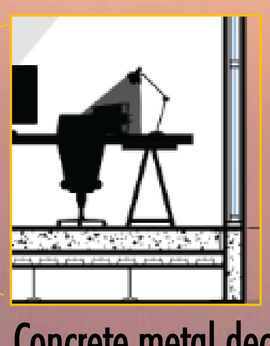


SECTIONAL DETAIL

Since the hotel is incorporated with flat roof , there is a need to overcome the storm water issue, Hence, green turf roof are provided to mitigate rainwater so that it may be useful for various activities in the hotel.



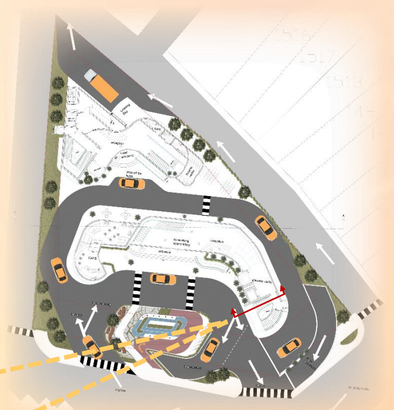


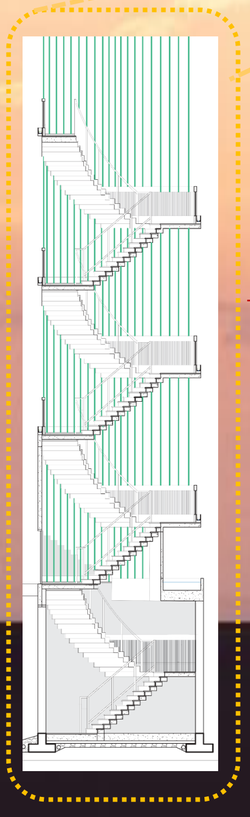


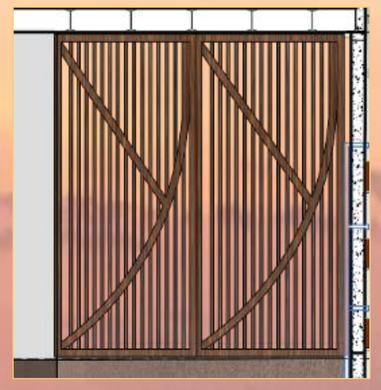
Concrete metal decking

STAIRCASE AND FACADE

In the below section of the staircase a pattern is formed , this pattern is used to design the wooden sun shades that are provided around the building. The function of these is to not only control daylight but also provide privacy.







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SOUTH ELEVATION
Scale 1:150

EAST ELEVATION
Scale 1:150

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WEST ELEVATION
Scale 1:150

NORTH ELEVATION
Scale 1:150

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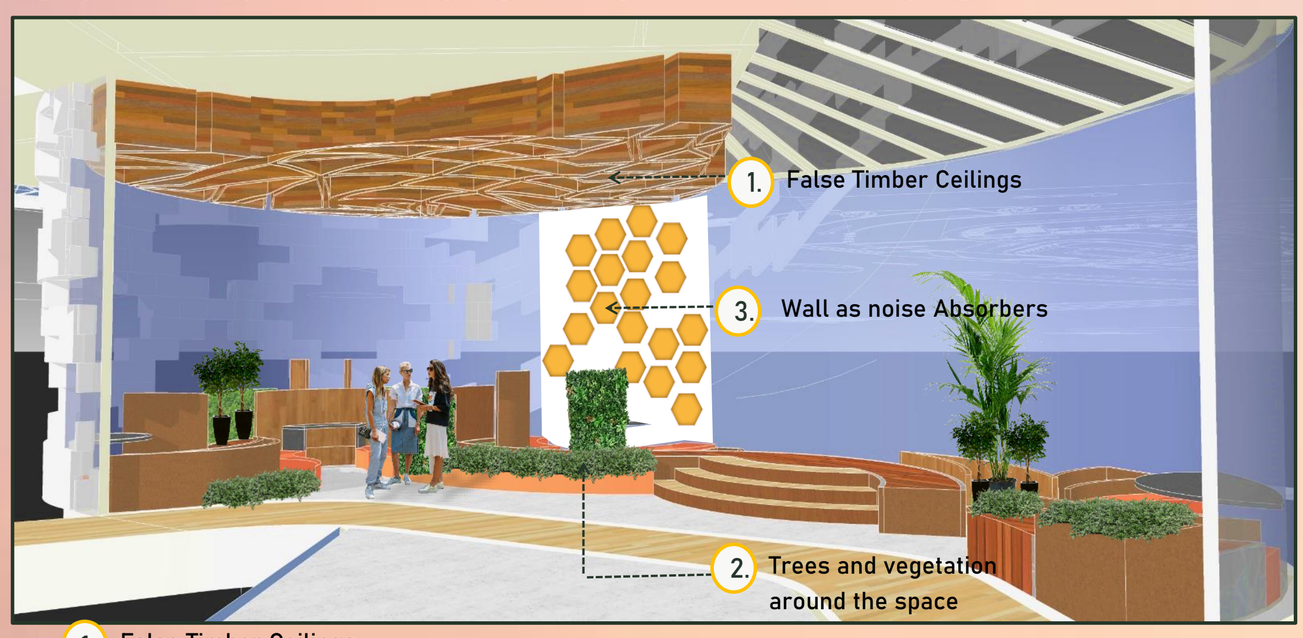
Course Code: ARC 3317

Academic Year: Feb 2021-May 2021

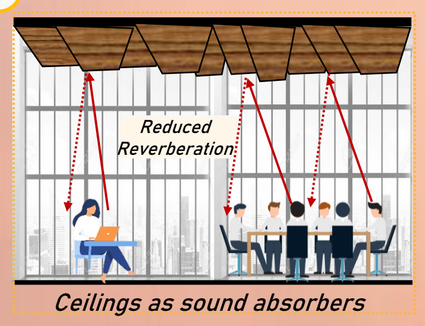
HOTEL VERSATILIS

Complex for work and stay

CO- WORKING SPACE ANALYSIS



1. False Timber Ceilings



Ceilings as sound absorbers

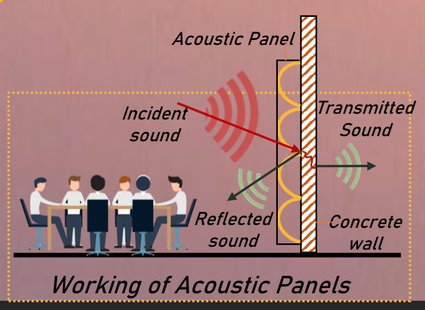
-Wood by itself is not a good sound absorber. However, when it is designed in a perforated or grooved form it reduces reverberation in a space. *Cedar wood* is utilized as it has good acoustic properties.

2. Trees and vegetation around the space

Plants as sound absorbers

The parts of plants such as fleshy leaves. Branches, thick stems, etc. are good sound absorbers. Plants such as baby tears and weeping fig will be used as they are good sound absorbers.

3. Wall as noise Absorbers

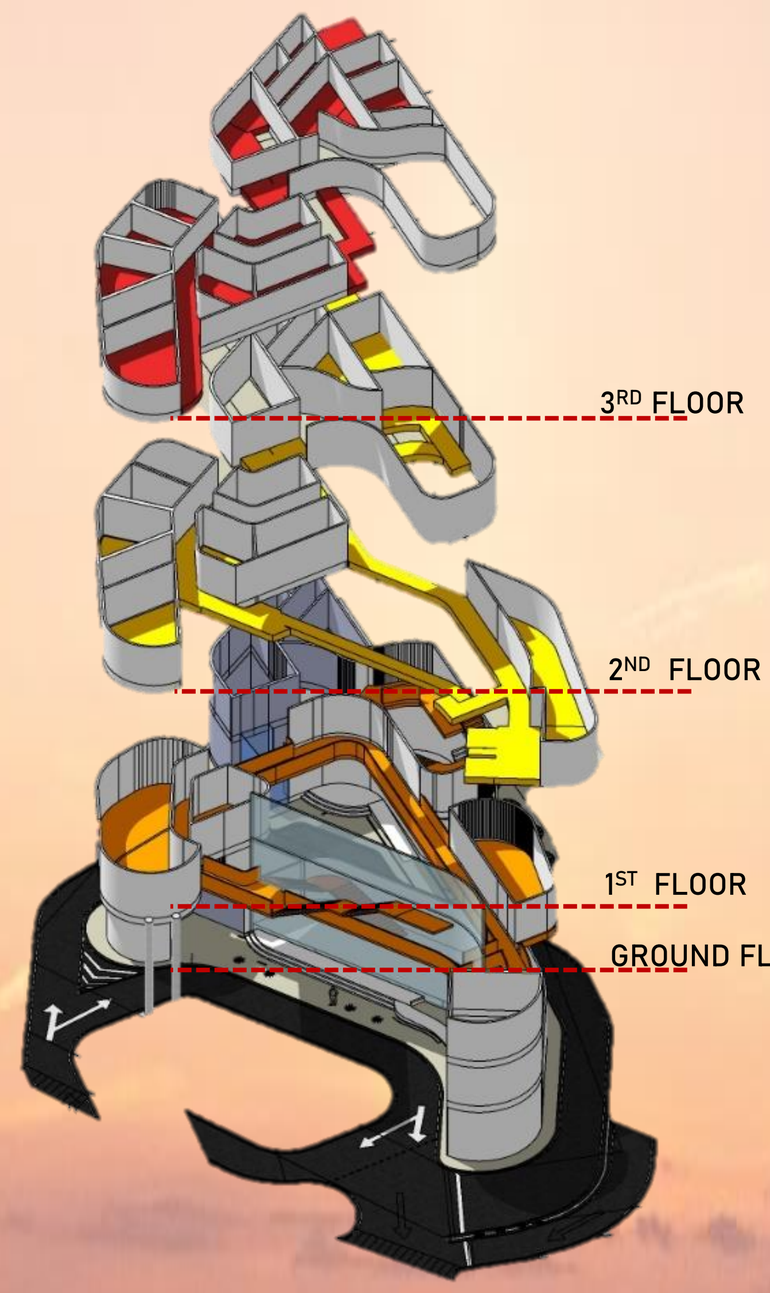


Working of Acoustic Panels

Concrete walls are good sound absorbers. The walls in the public co-working space will be dressed with acoustic panels which will further decrease reverberation of sound in the room.

EXPLODED AXONOMETRIC

Shows casing the voids that incorporate ventilation and daylight into the spaces..



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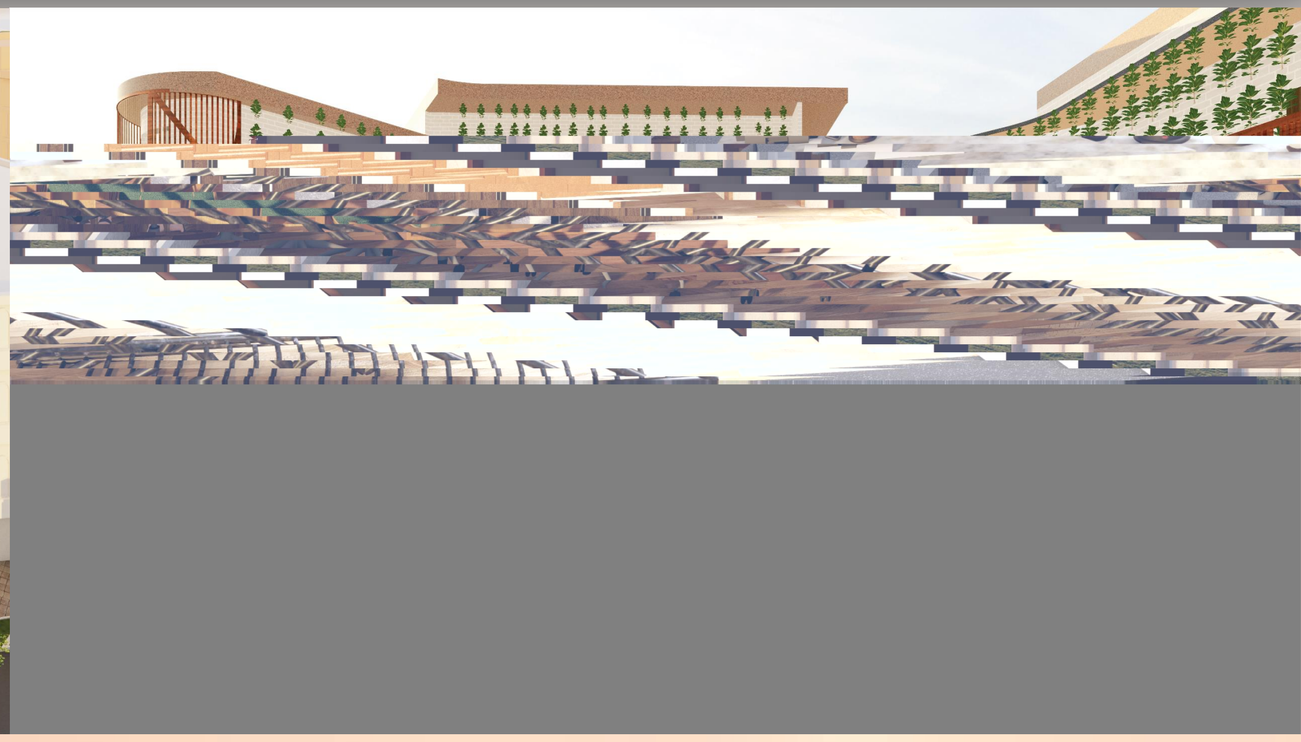
EXTERIOR PERSPESCTIVE



EXTERIOR PERSPESCTIVE

INTERIOR PERSPESCTIVE (co-working space)

INTERIOR PERSPESCTIVE (key 7)

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