Vertical Habitat in CBD, Singapore

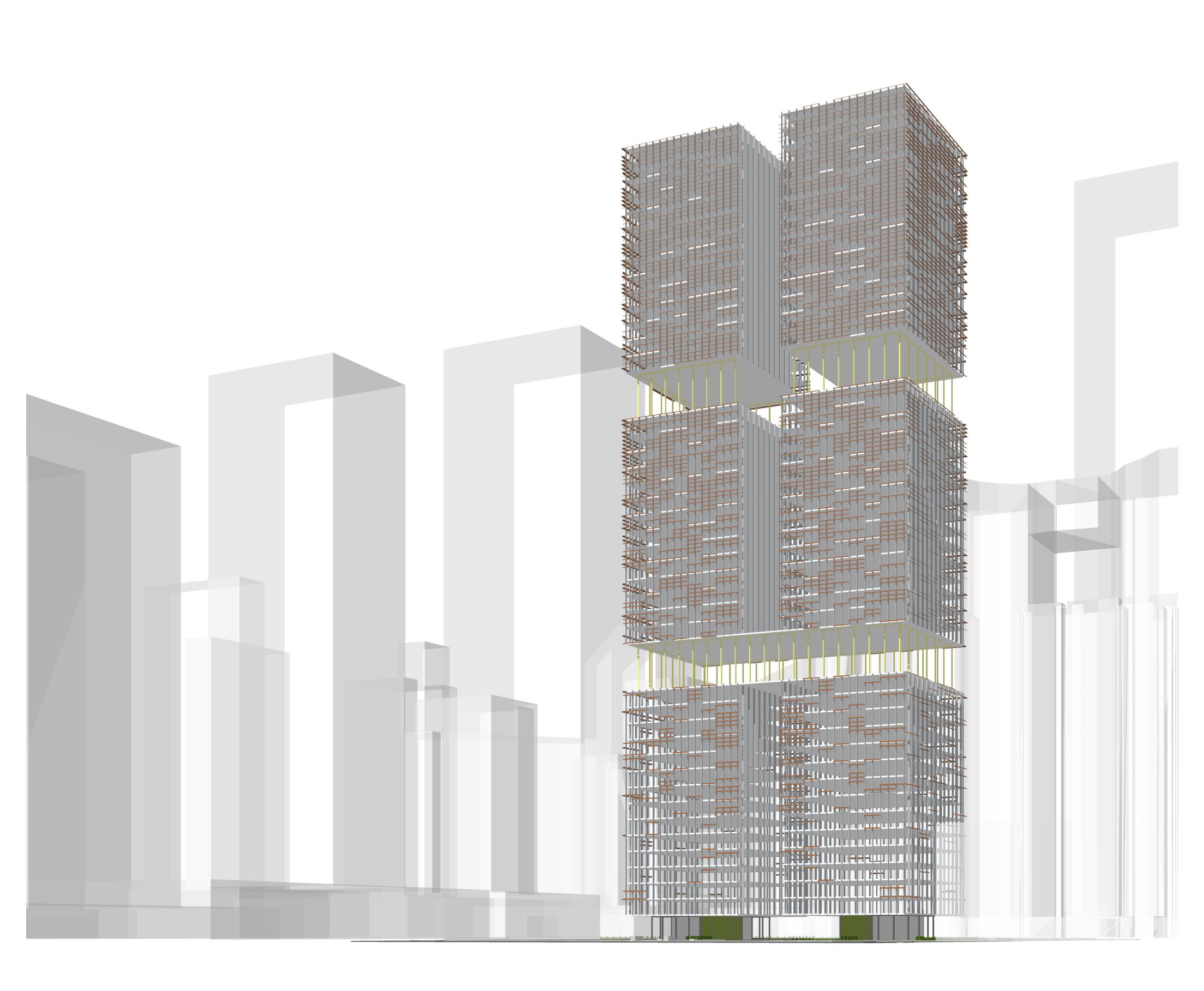


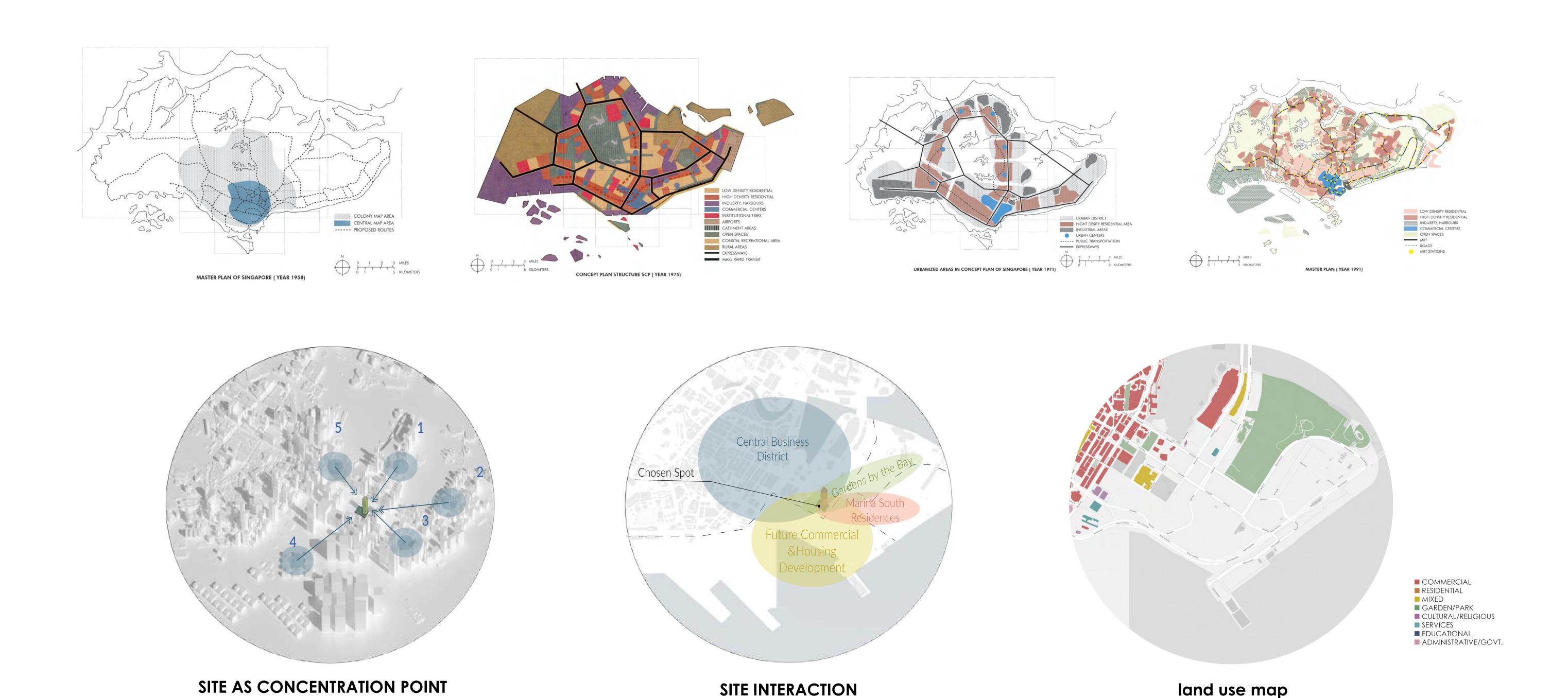
Presented to

Prof. Maria Grazai Folli
Prof. Corrado Pecora
Prof. Giovanni Dotelli
Prof. Francesco Romano
Prof. Marco Imperadori

Group 8

Diana Trushina Hamza Yaseen Kristina Perkova

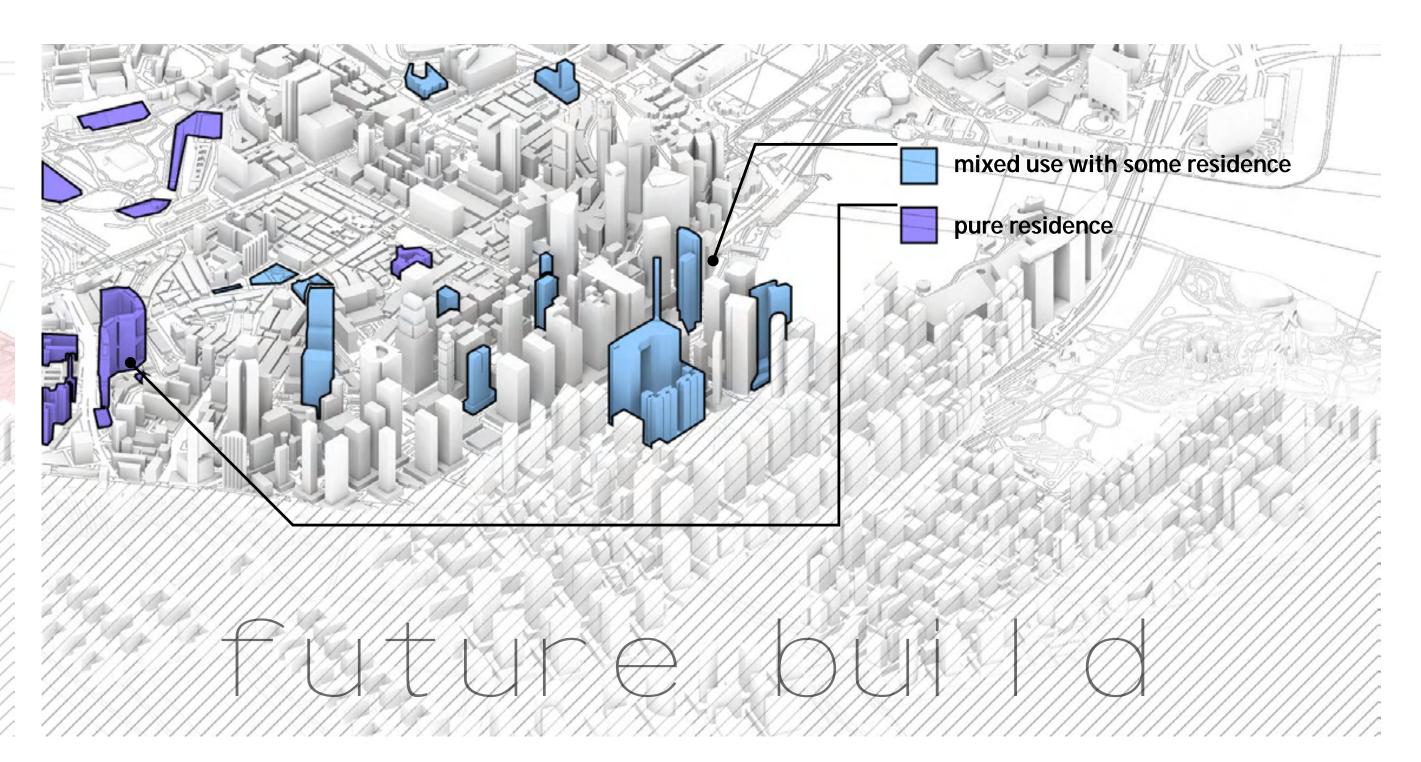




iconic buildings in the area (abudant)

The CBD area of Marina Bay is full of iconic buildings, mostly high-rise, but also of other typologies; there are so many, that not all of them made it into the showcase.

residential buildings (lacking)

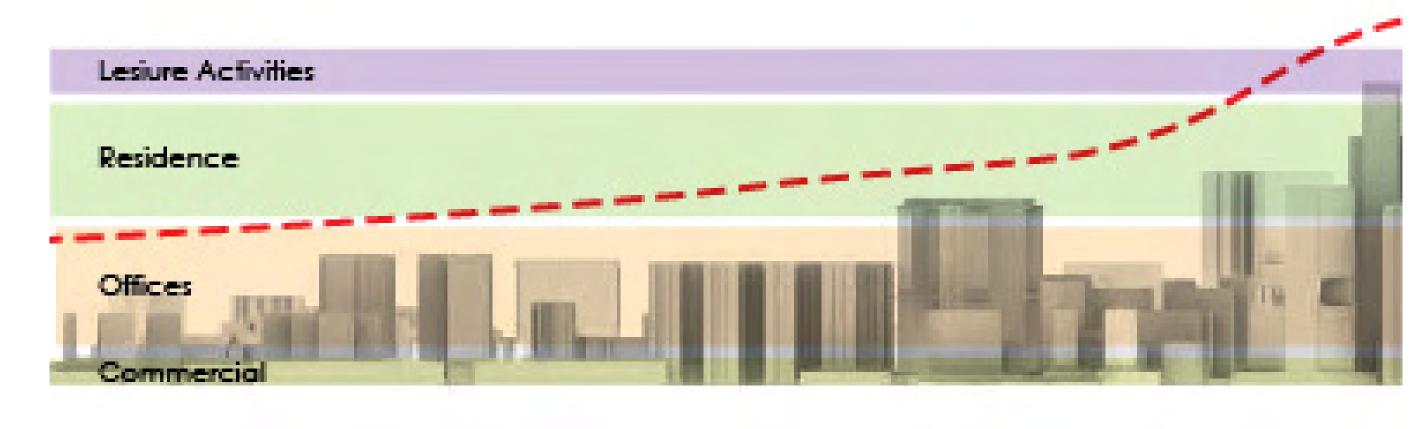


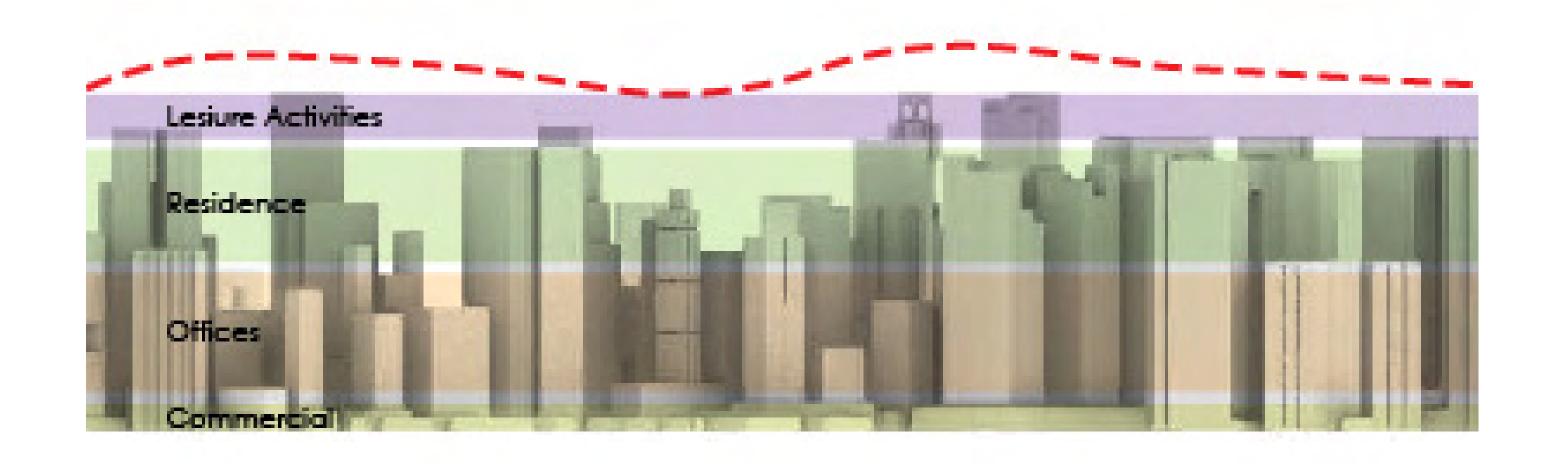
land use map

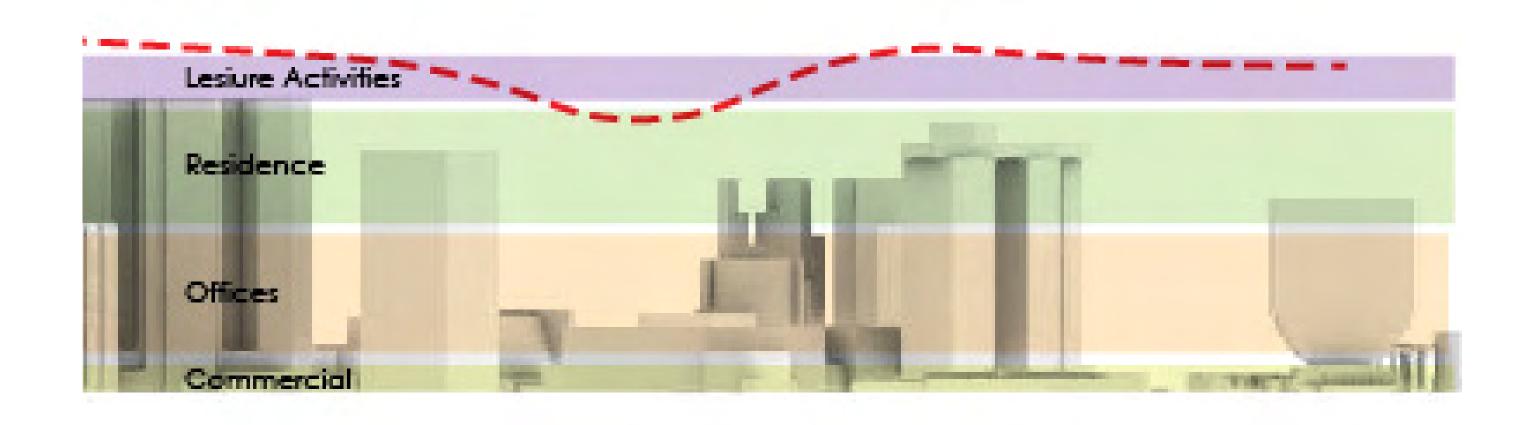
At the same time, residence in the area is almost non-existant; mainly it is presented by apartments available for rent in mixed-use buildings, and only on the outskirts of CBD we can find a couple of purely residential buildings.

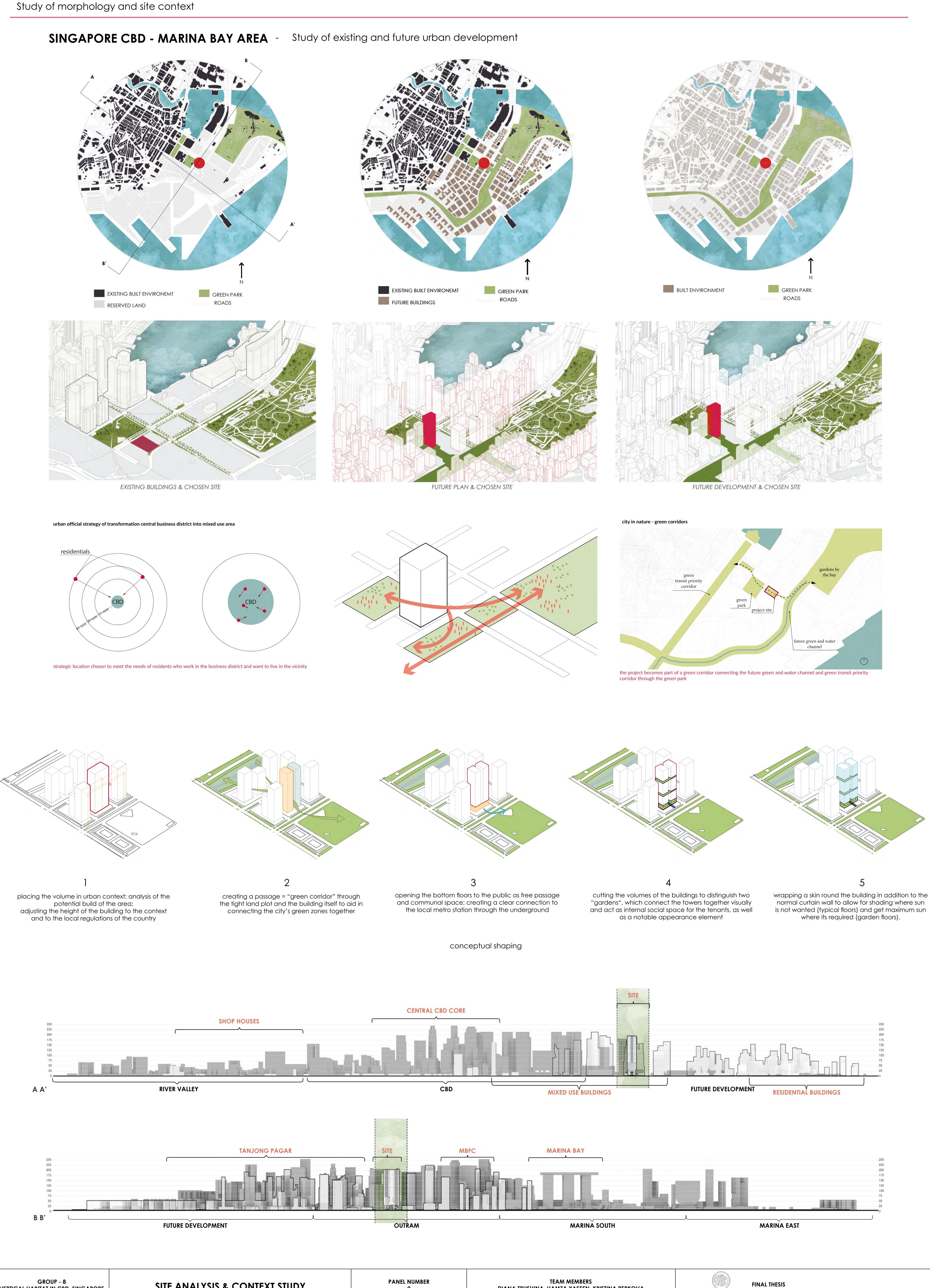


Defining the tallness in singapore

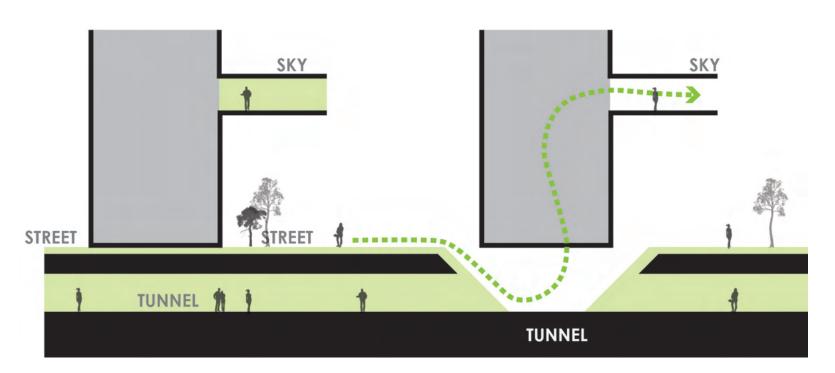




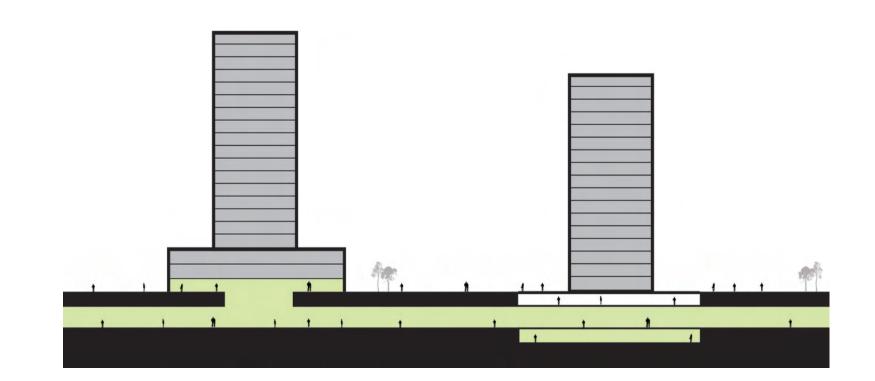




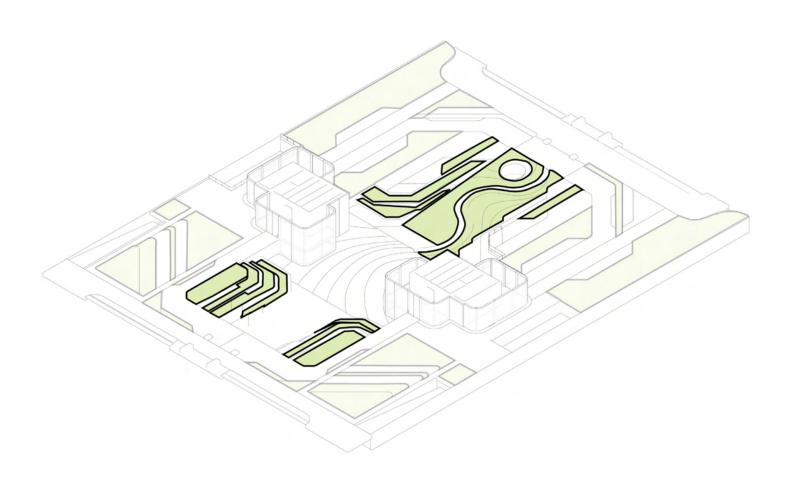




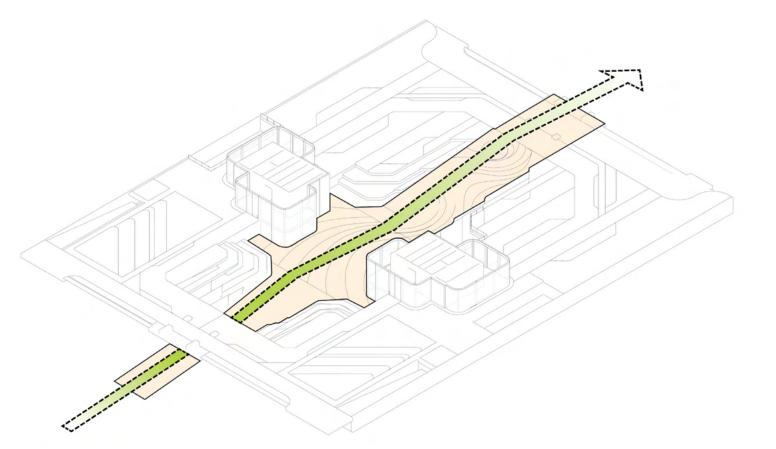
CONNECTION OF BUILDING WITH THE UNDER GROUND



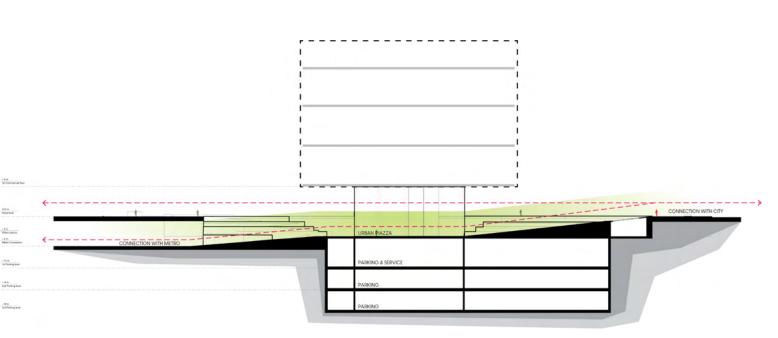
DISTRIBUTION OF PODIUM IN THE UNDERGROUND



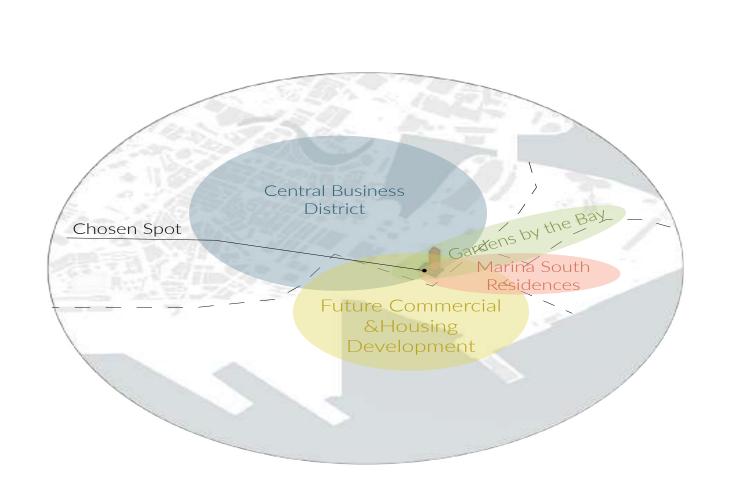
GREEN TERRACES TO INCREASE THE SOFT SURFACE AREA IN THE SITE



CONSTINUOUS AND FREE MOVEMENT THROUGH THE SITE



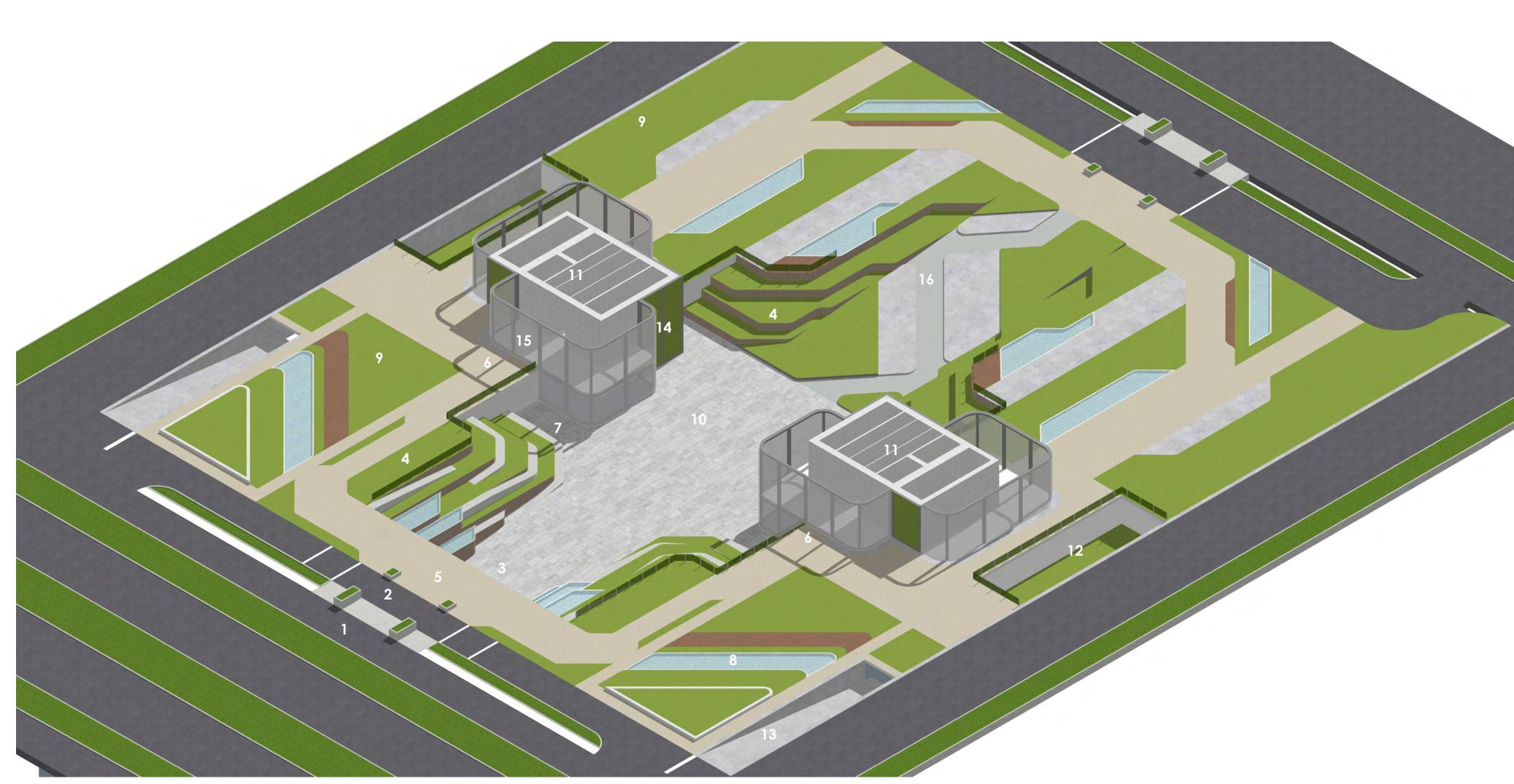
CONNECTION WITH THE MASS TRANSIT SYTEM OF THE CITY





coworking area truss mechanical floor mixed residence semi-private spaces for tenants garden floor truss mechanical floor mixed residence garden floor 4-floor residential block commercial parking&technical public garden space

restaurant



3D VIEW OF THE PIAZZA AND PODIUM

- 1. Main road for vehicular traffic
- 2. Public Access at road Level
- 3. Access from Underground
- 4. Green terraces
- 5. Pavement
- 6. Entry for Residents
- 7. Entry for commercial area 8. Water bodies for cooling
- 9. Public Park
- 10. Central Piazza
- 11. Builidng Core

12. Voids for Exhaust

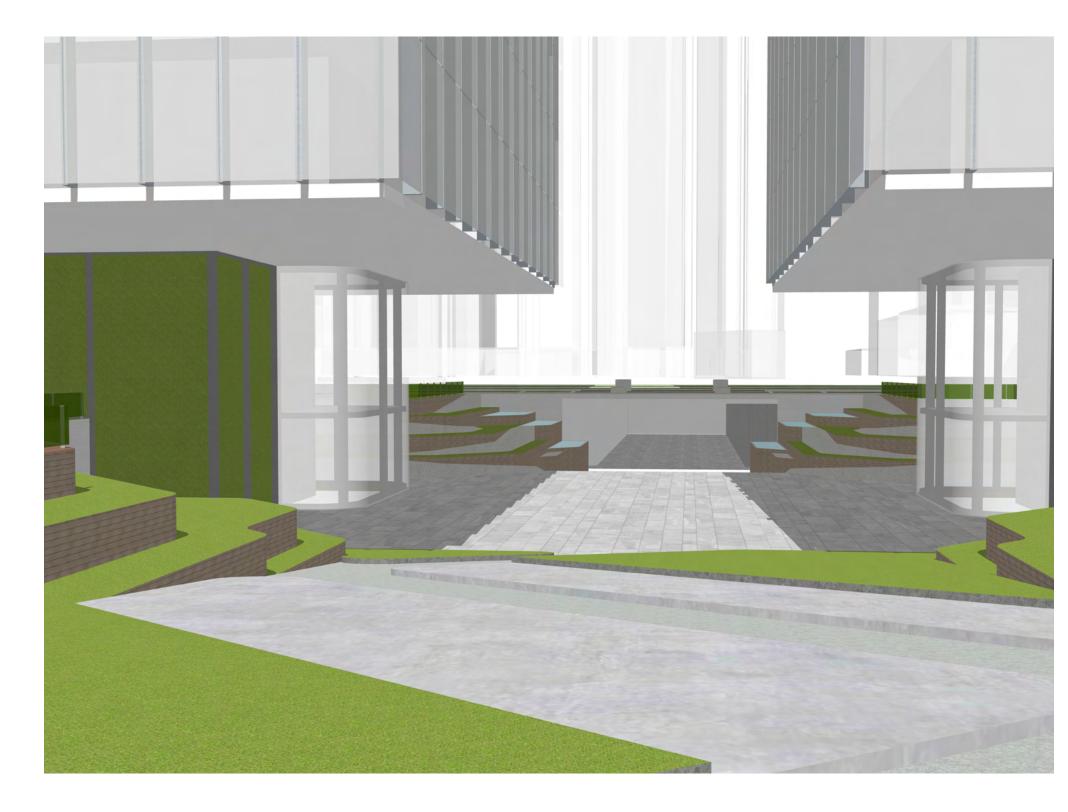
- 13. Ramp
- 14. Vertical vegetatoin

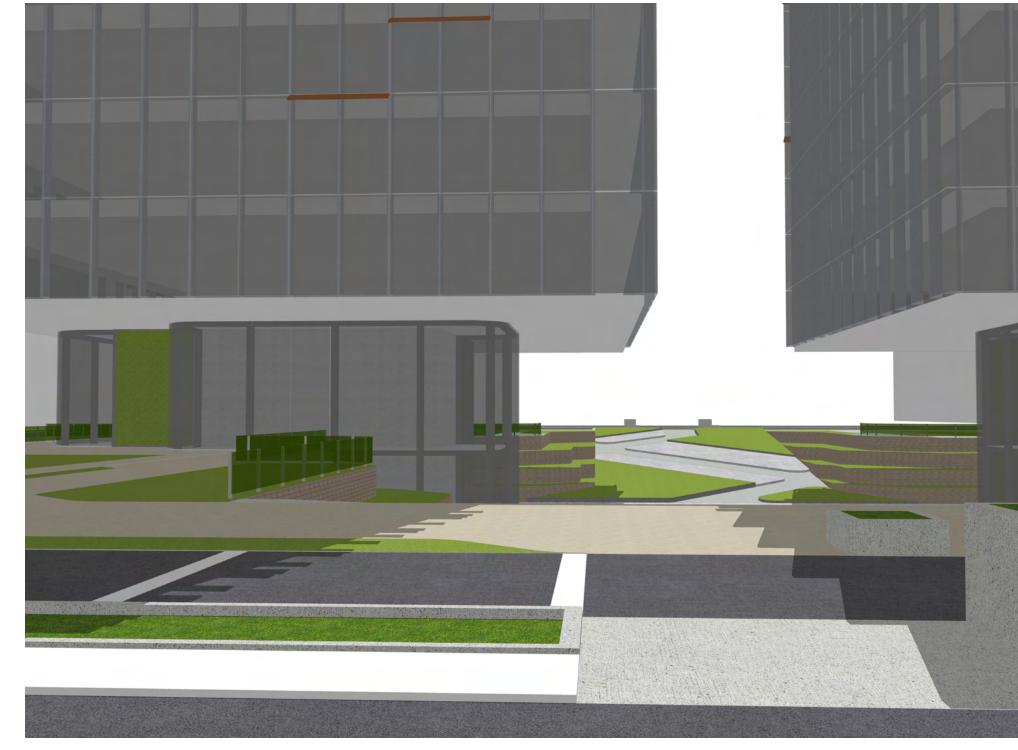
passage to the

metro station

15. Residents Lobby

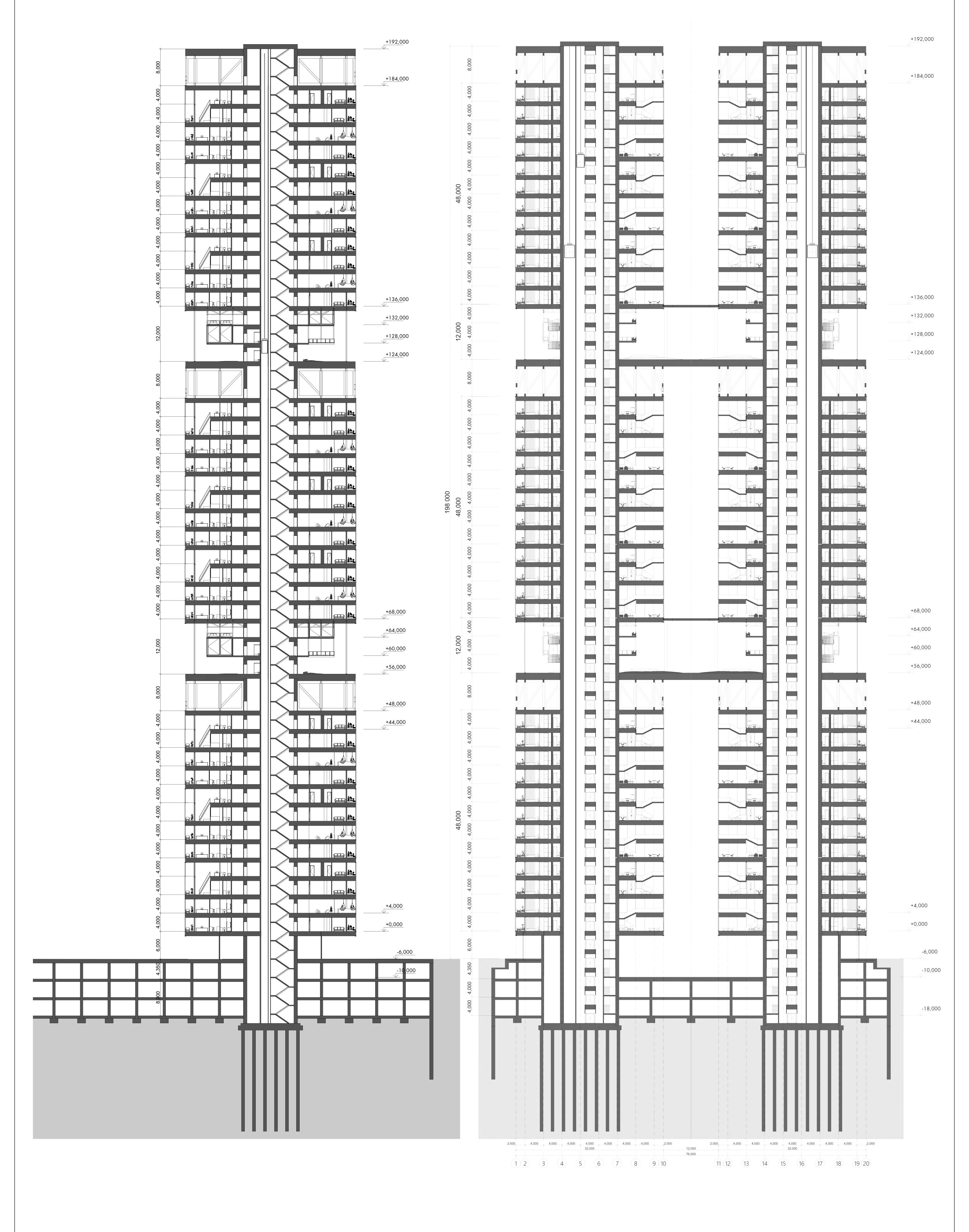


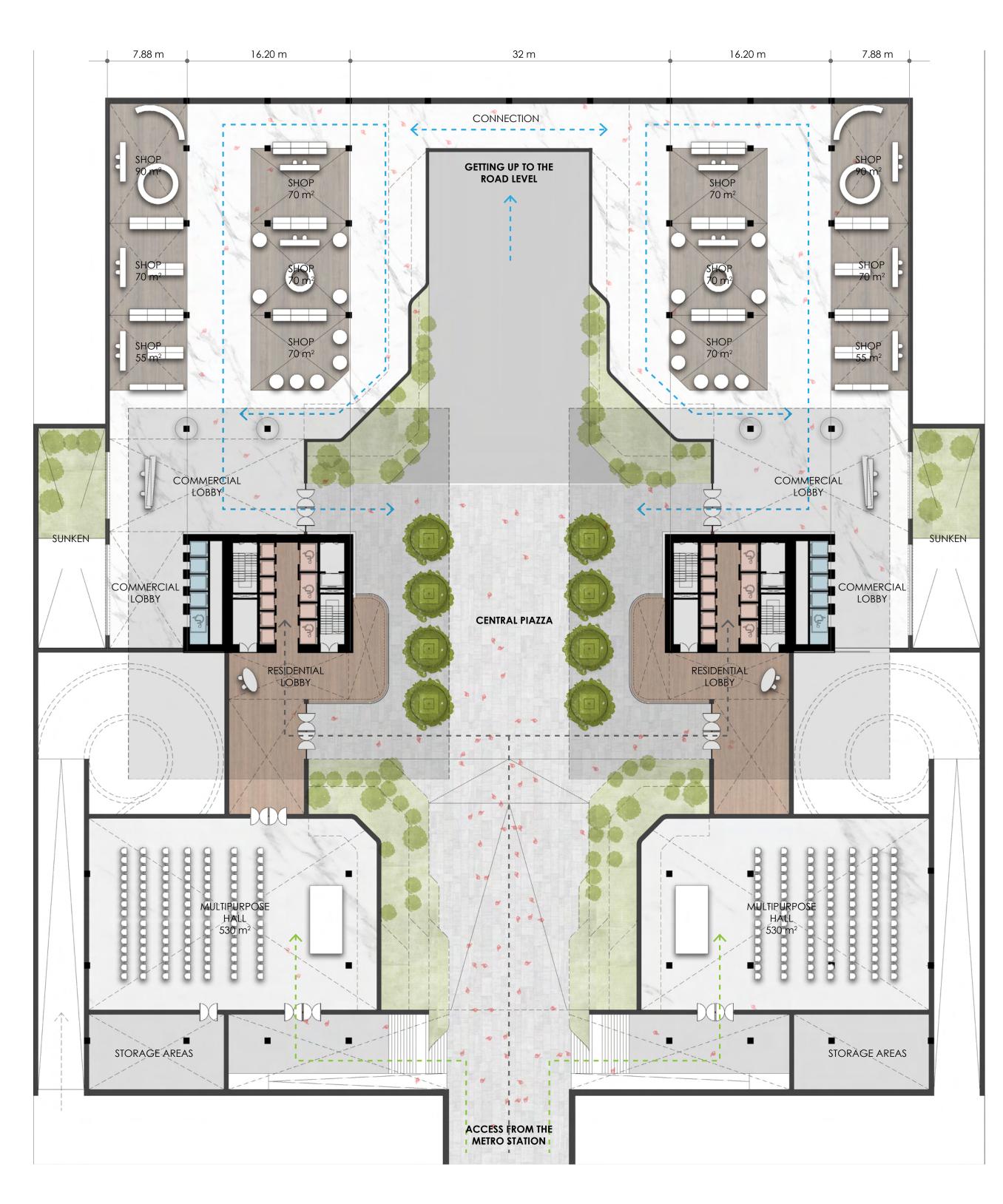




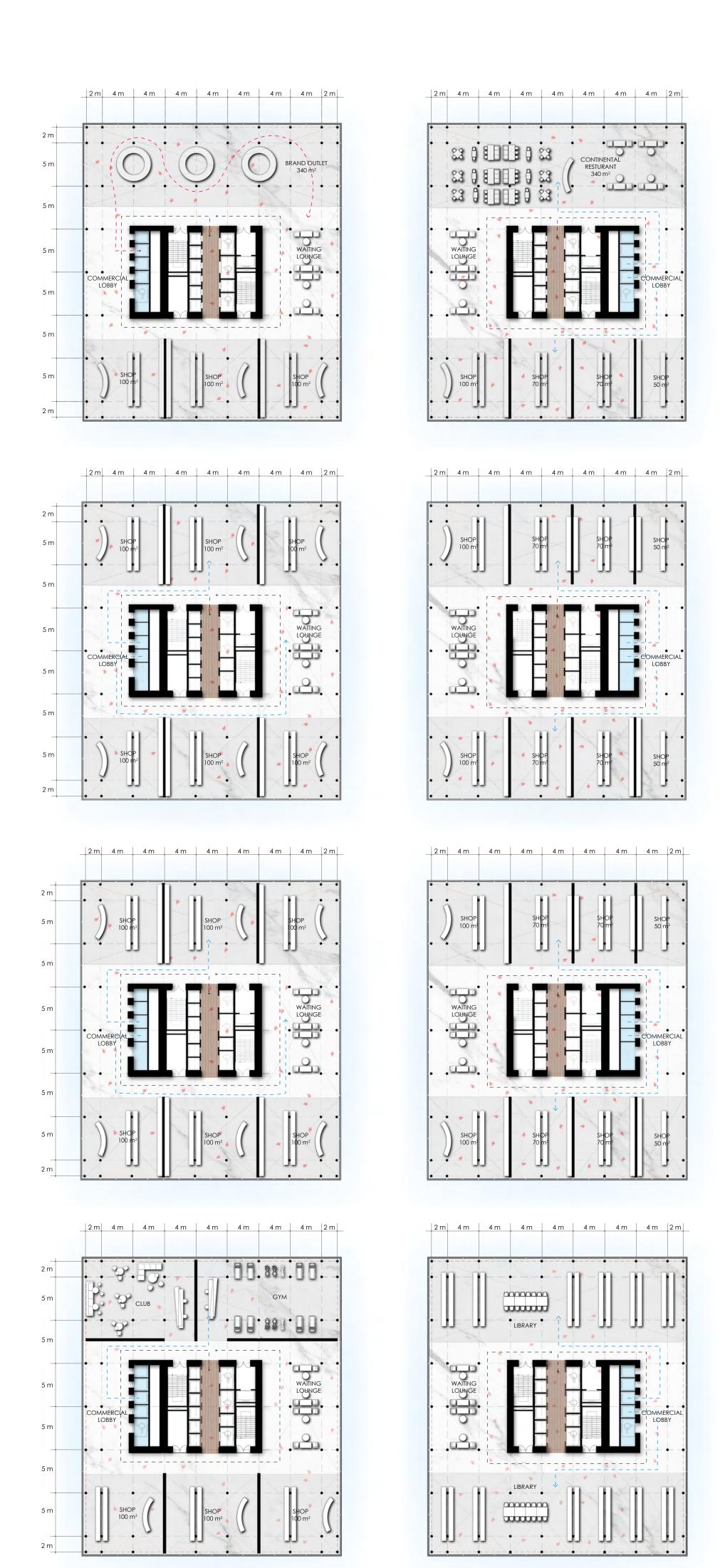
SOUTH EAST SIDE OF THE BUILDING WITH PODIUM

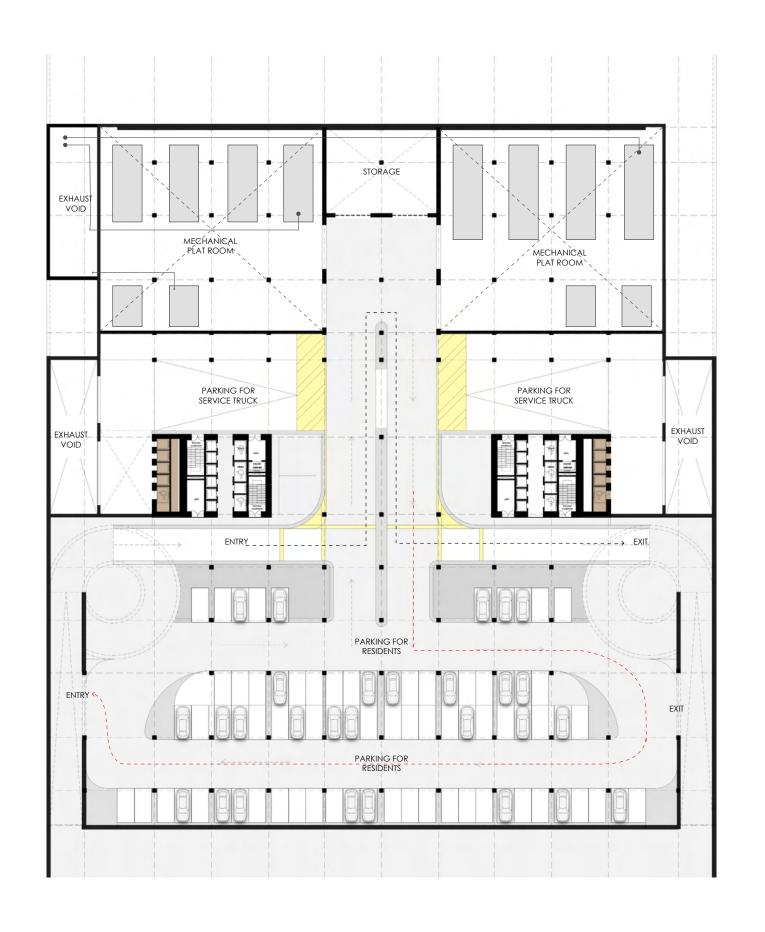
VIEW OF PODIUM FROM HUMAN PERSPECTIVE

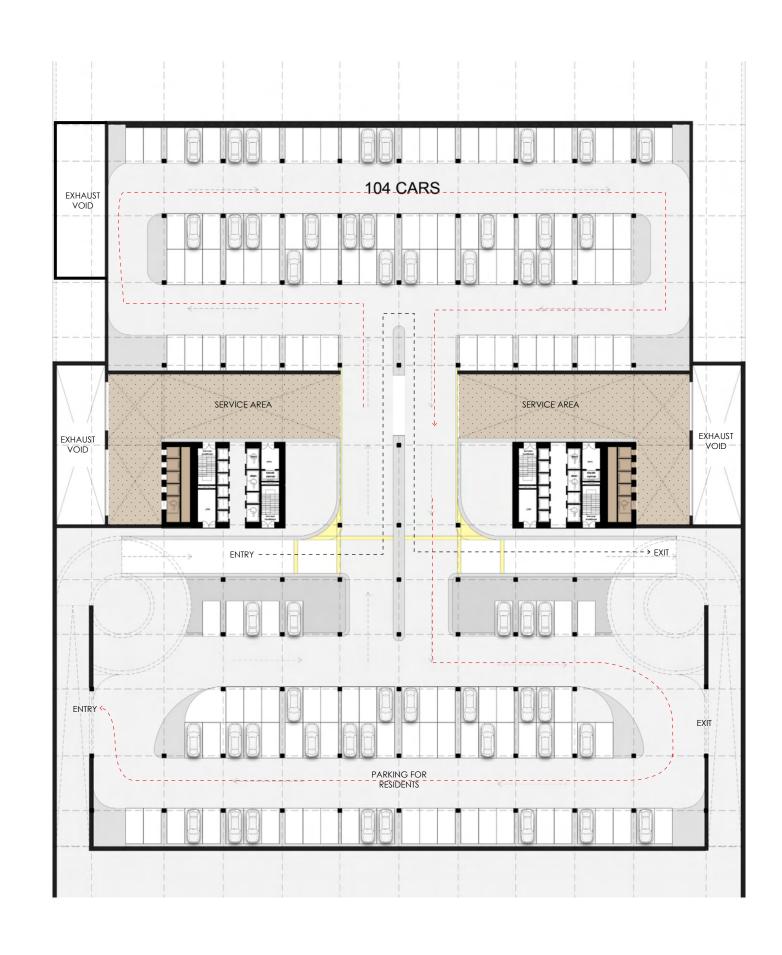


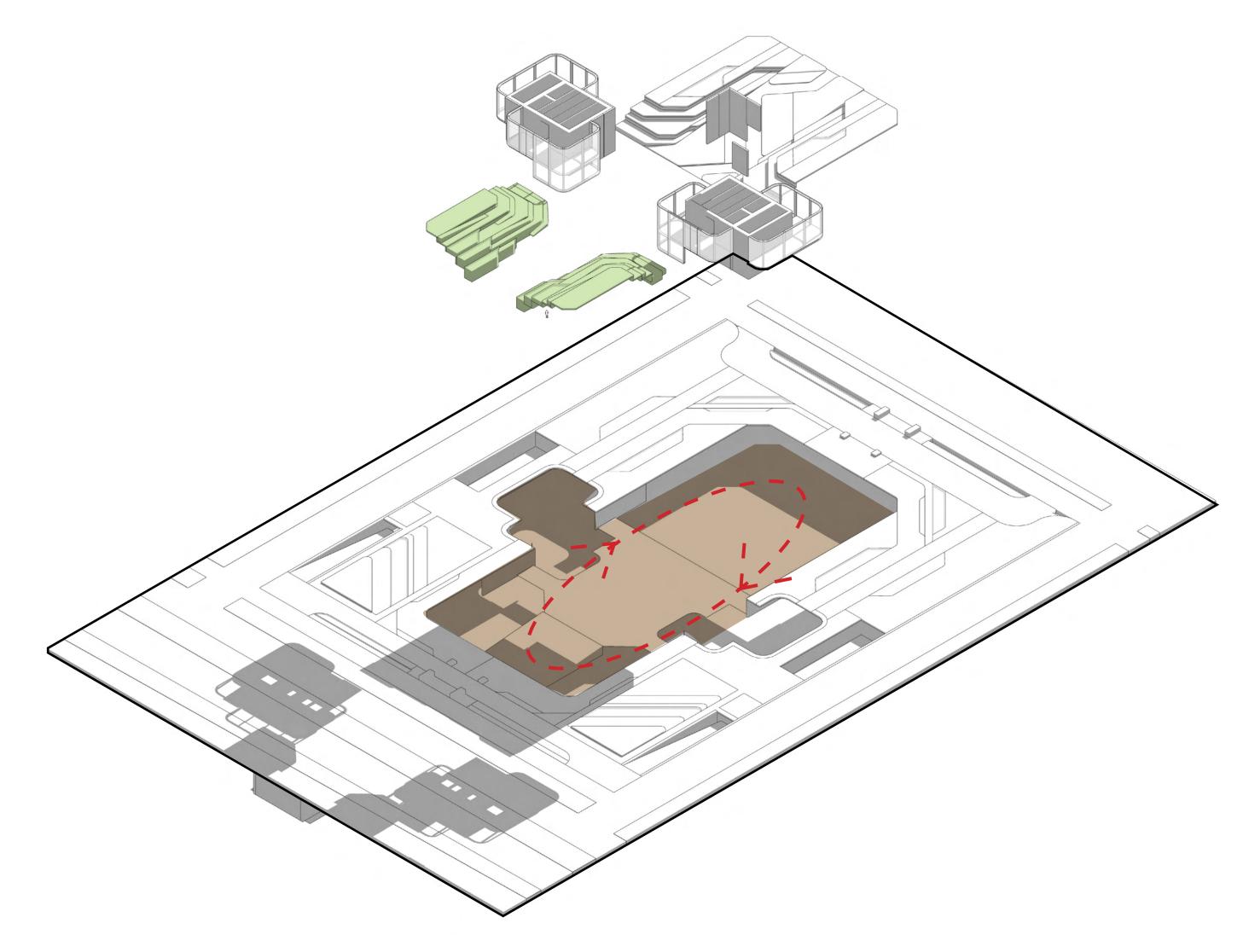




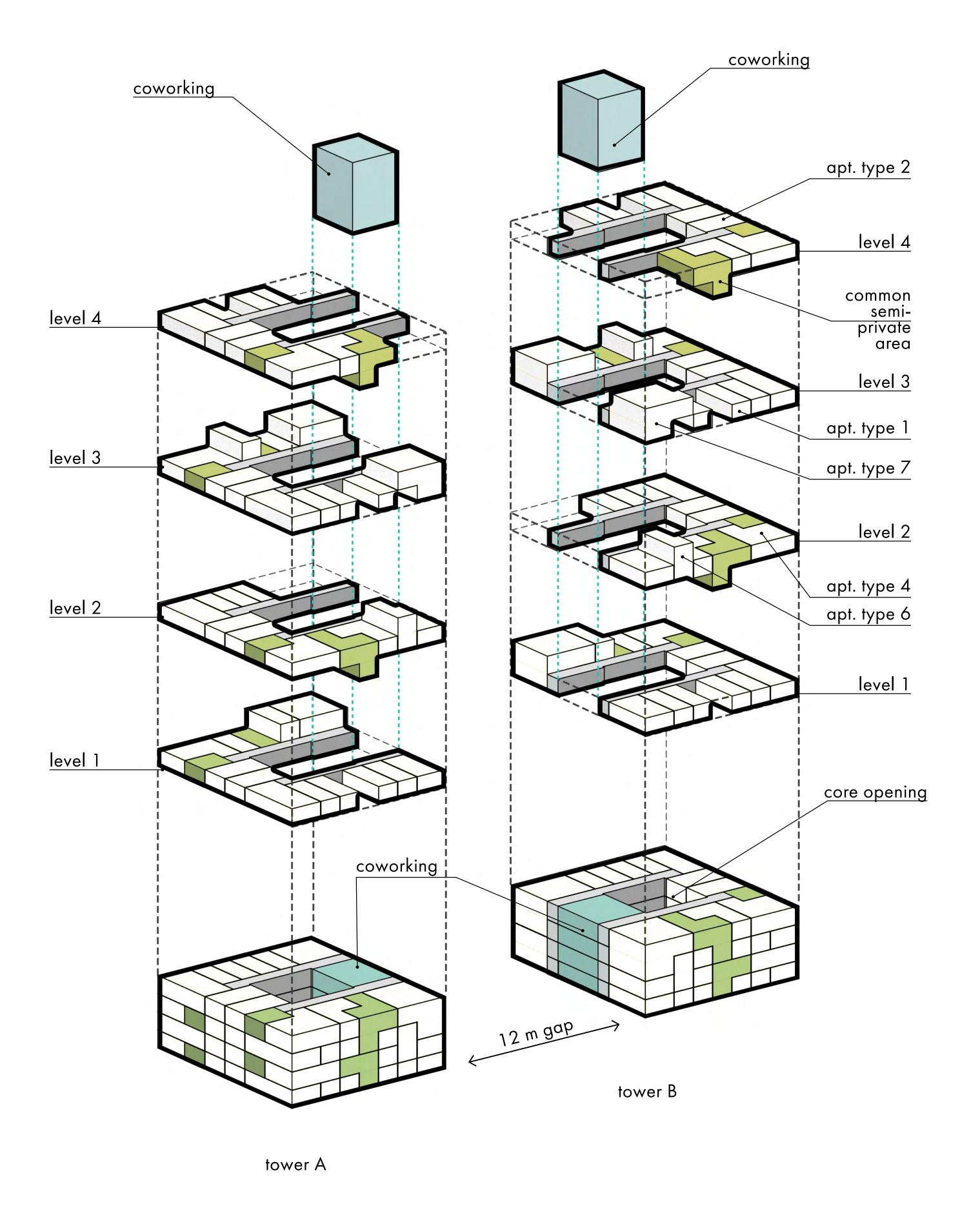


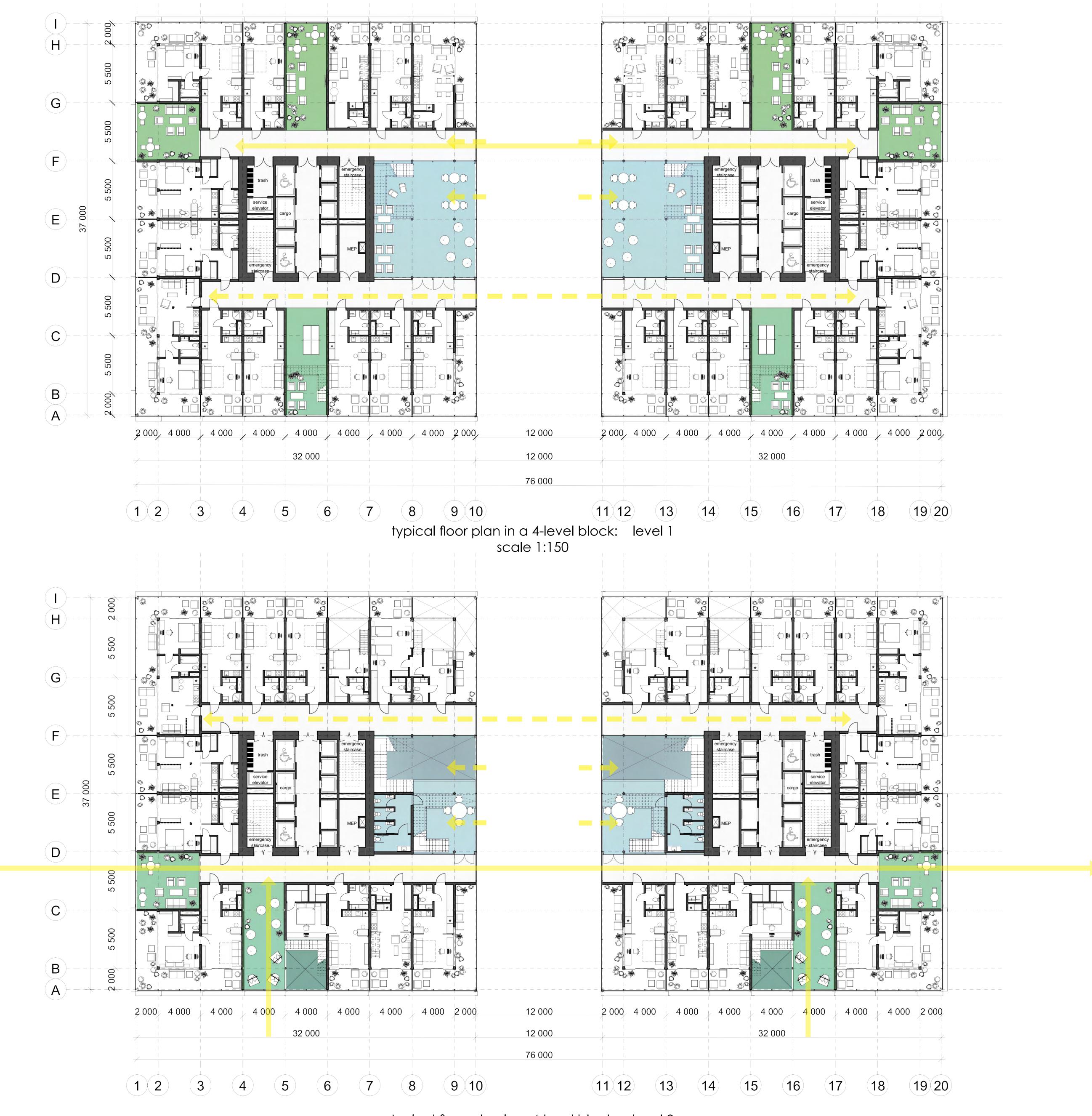






BUILDING PROGRAM: EXPLODED RESIDENTIAL 4-FLOOR BLOCK

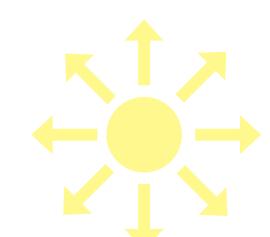




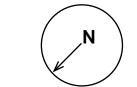
typical floor plan in a 4-level block: level 2 scale 1:150







- natural light permeating through the floor



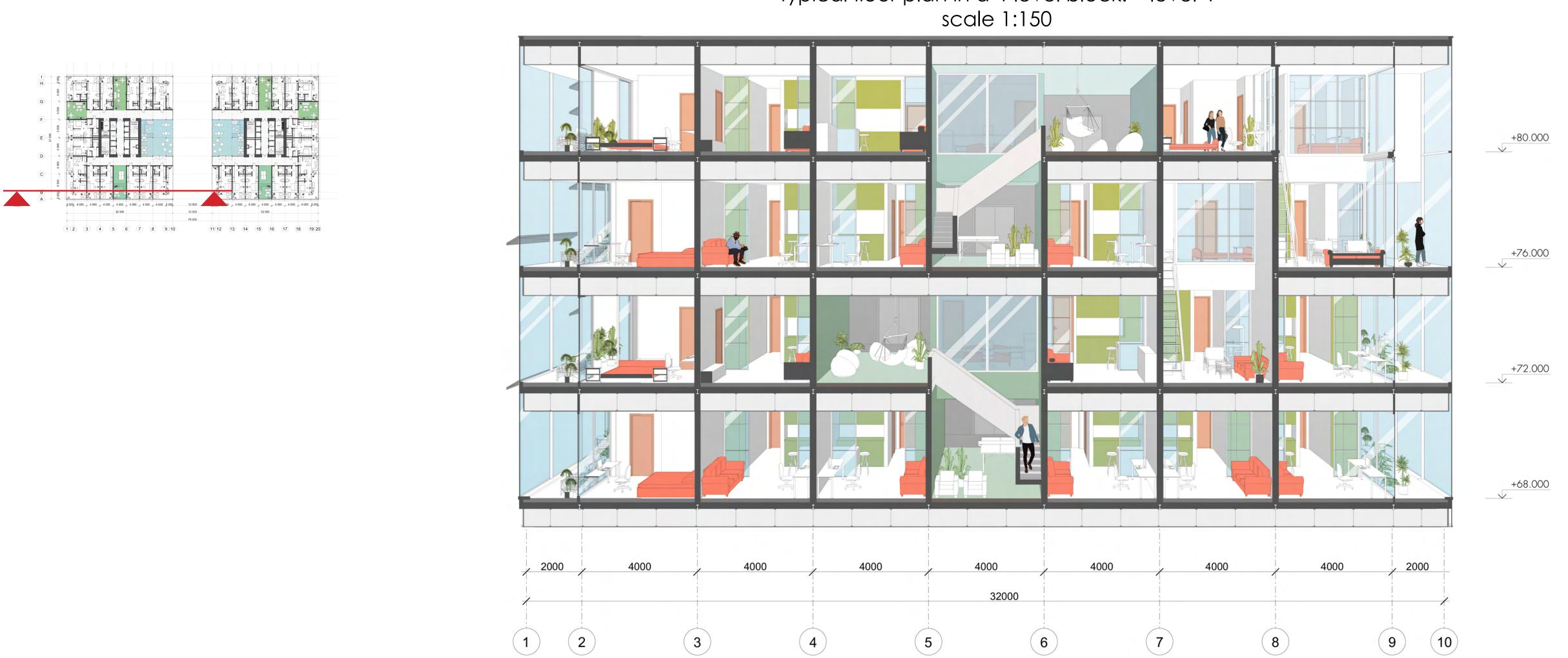
24



typical floor plan in a 4-level block: level 3 scale 1:150

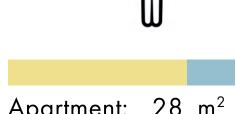


typical floor plan in a 4-level block: level 4



TYPES OF APARTMENTS

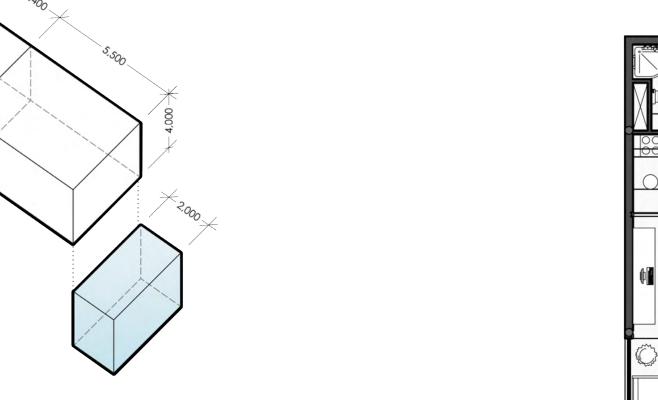
19 per block 43% 35.5 m²



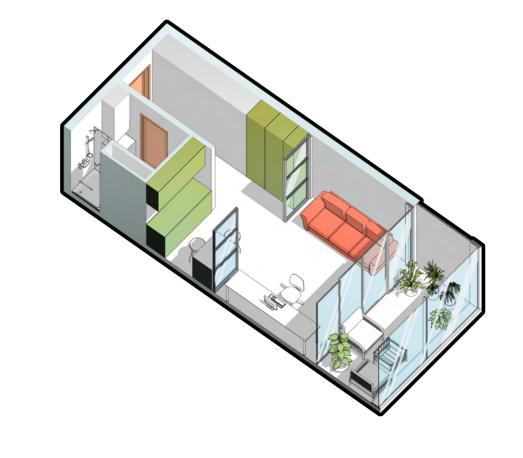
Residents: 🗻

Apartment: 28 m²
Balcony: 7,5 m²

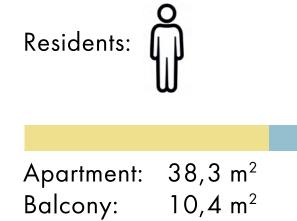
Living+kitchen: 28 m²
Balcony: 7,5 m²
W/c: 3,6 m²



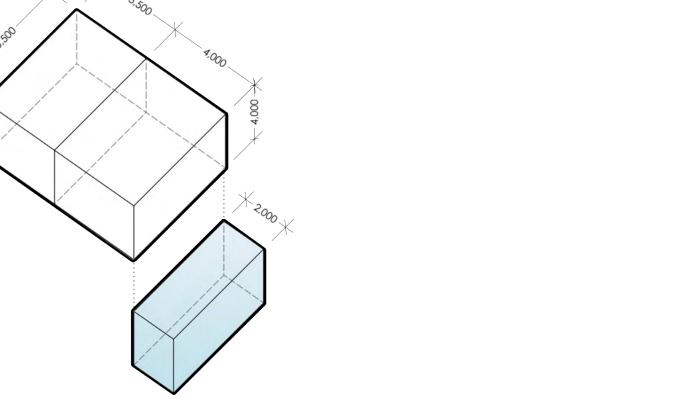


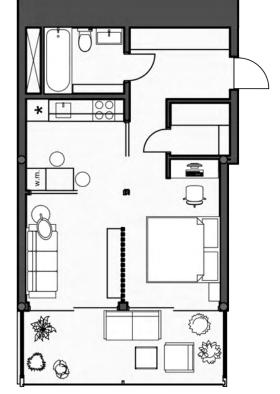


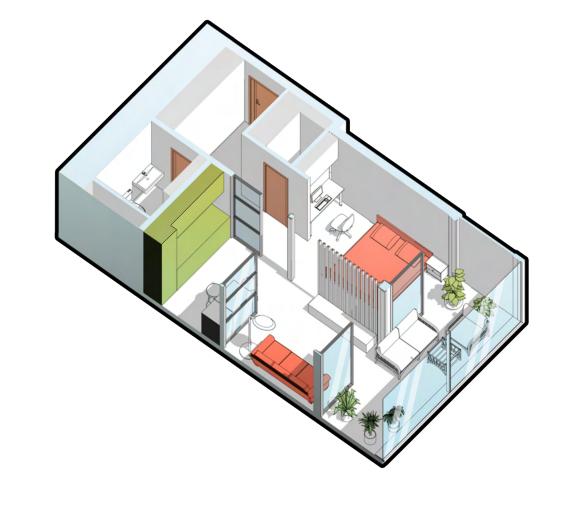
8 per block 13% 48.71 m2



Living+kitchen: 17 m² $10,4 \text{ m}^2$ Balcony: $3,9 \text{ m}^2$ Bedroom: 9,0 m²



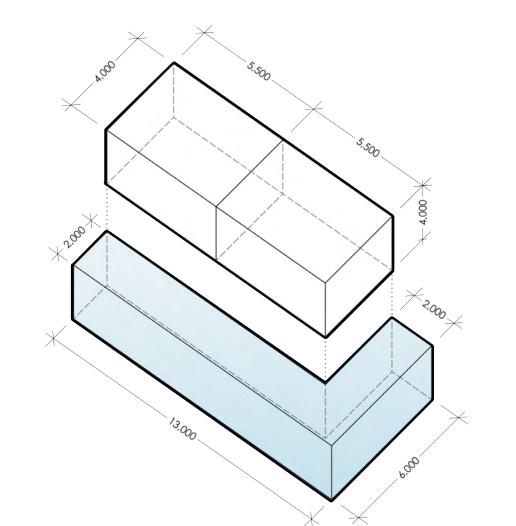


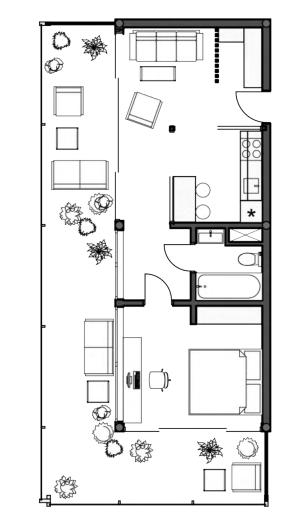


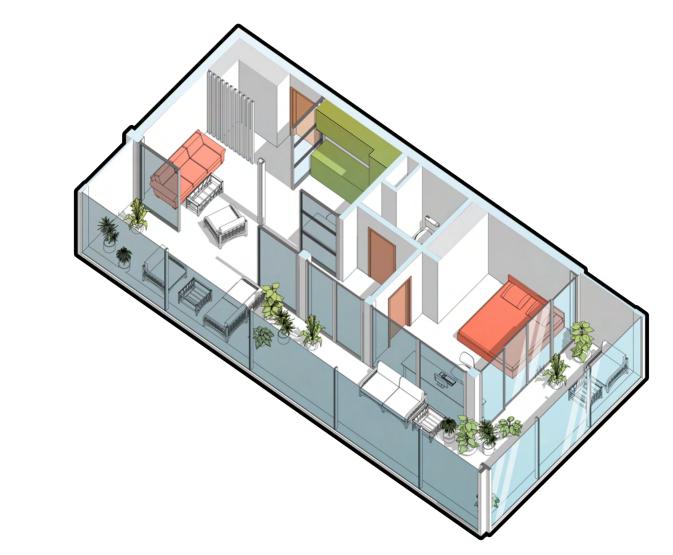
Residents: 0 / 0 0

Apartment: 39 m²
Balcony: 32,5 m² 4 per block 9% 71.75 m2

Living+kitchen: 24 m² Balcony: 32,5 m²
W/c: 3,1 m²
Bedroom: 12,3 m²







9%

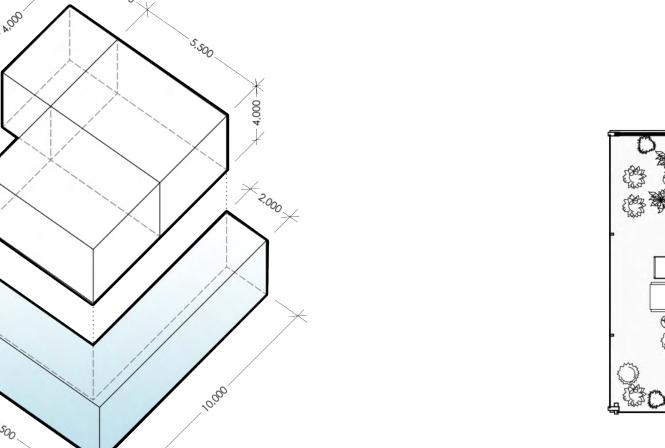
4 per block

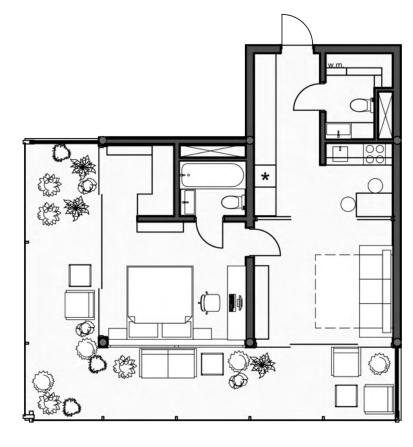
75.44 m2

Residents: 0 / 0 0

Apartment: 46,5 m²
Balcony: 29 m²

Living+kitchen: 19 m²
Balcony: 29 m²
W/c: 6,3 m²
Bedroom: 15,8 m²







6%

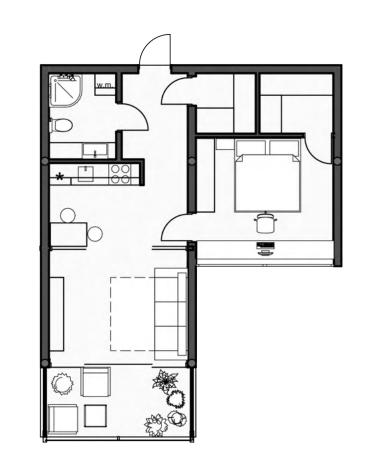
3 per block

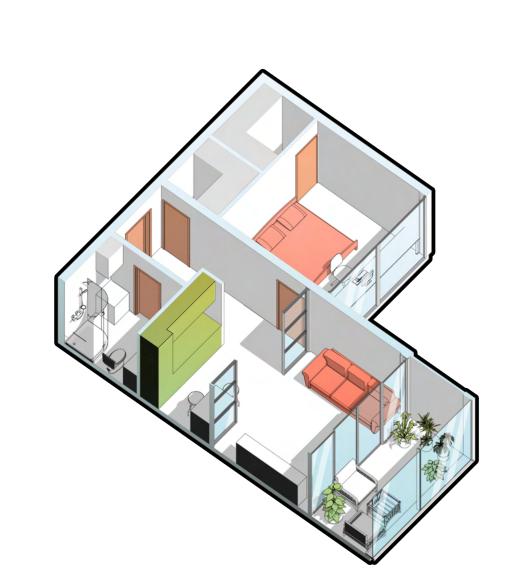
54.72 m2

Residents: 0 / 0 0

Apartment: 47,25 m² Balcony: 7,47 m²

Living+kitchen: 20,25 m² Balcony: 7,47 m² W/c: 4,29 m²
Bedroom: 12,31 m²





18%

8 per block

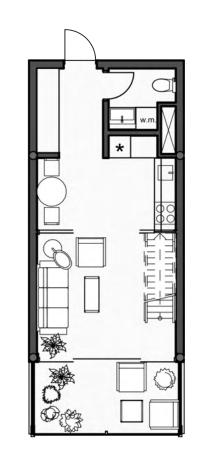
52.35 m2

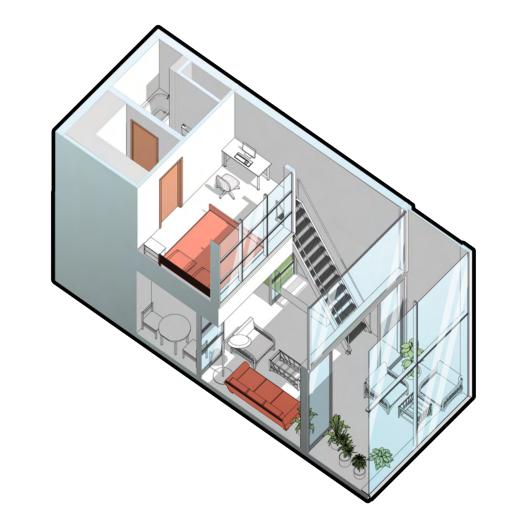
Residents: 0 / 0 0

Apartment: 44,88 m² Balcony: 7,47 m²

Living+kitchen: 21,15 m² Balcony: 7,47 m²
W/c: 6,3 m²
Bedroom: 9,11 m²



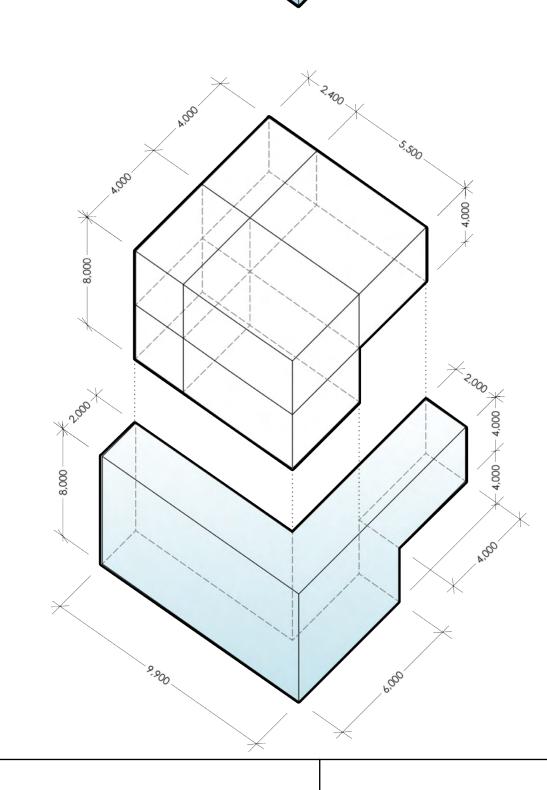


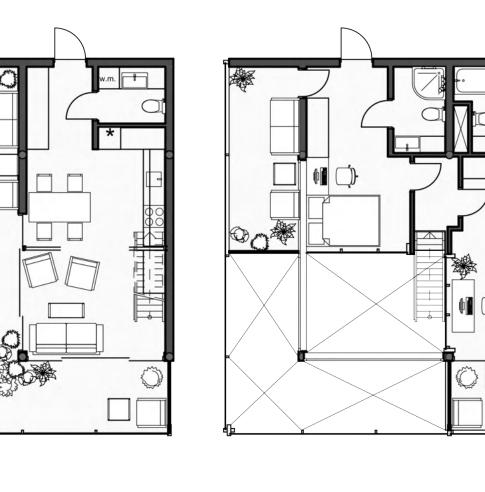


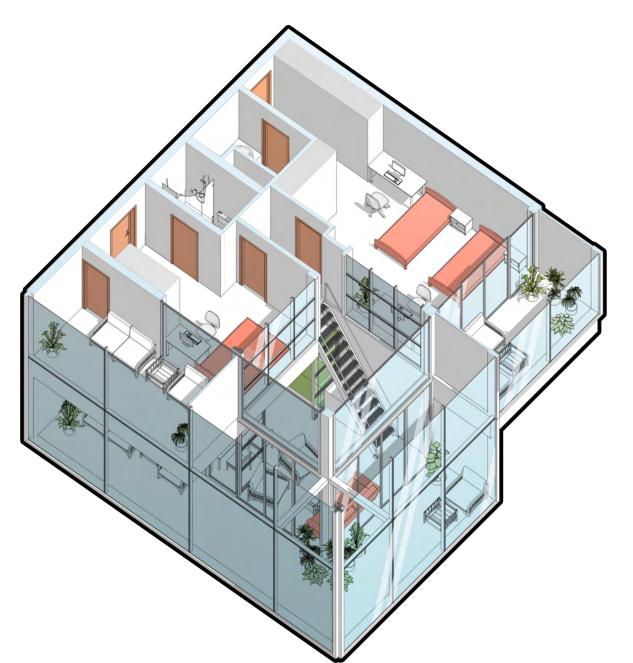
Residents:

4 per block Apartment: 73,26 m² 9% Balcony: 43,37 m² 116,63 m²

Living+kitchen: 26,49 m² Balcony: 43,37 m² W/c: 9,7 m² Bedrooms: 37,07 m²







VERTICAL HABITAT IN CBD, SINGAPORE