Michael Kurniawan

Architectural Design Portofolio

2023-2026

SCAN ME

Architecture student with a focus on real estate, BIM modeling, and universal design. Proficient in Revit, with practical experience in building renovation and redesign. Active in peer development, having mentored over 10 junior students and classmates.

Education

Age

Email

Phone

Web

Michael Kurniawan

Experience

Gereja GKKK Kupang Jaya	Renovation	Revit, Autocad, Nano Banana	2026
Panti Asuhan Lydia	Renovation	Revit, Autocad	2026
Revit tutor	Mentorship	Revit	2025

About me

Architecture of Sustainable Housing and Real Estate (Undergraduate)

20

michael087982@gmail.com

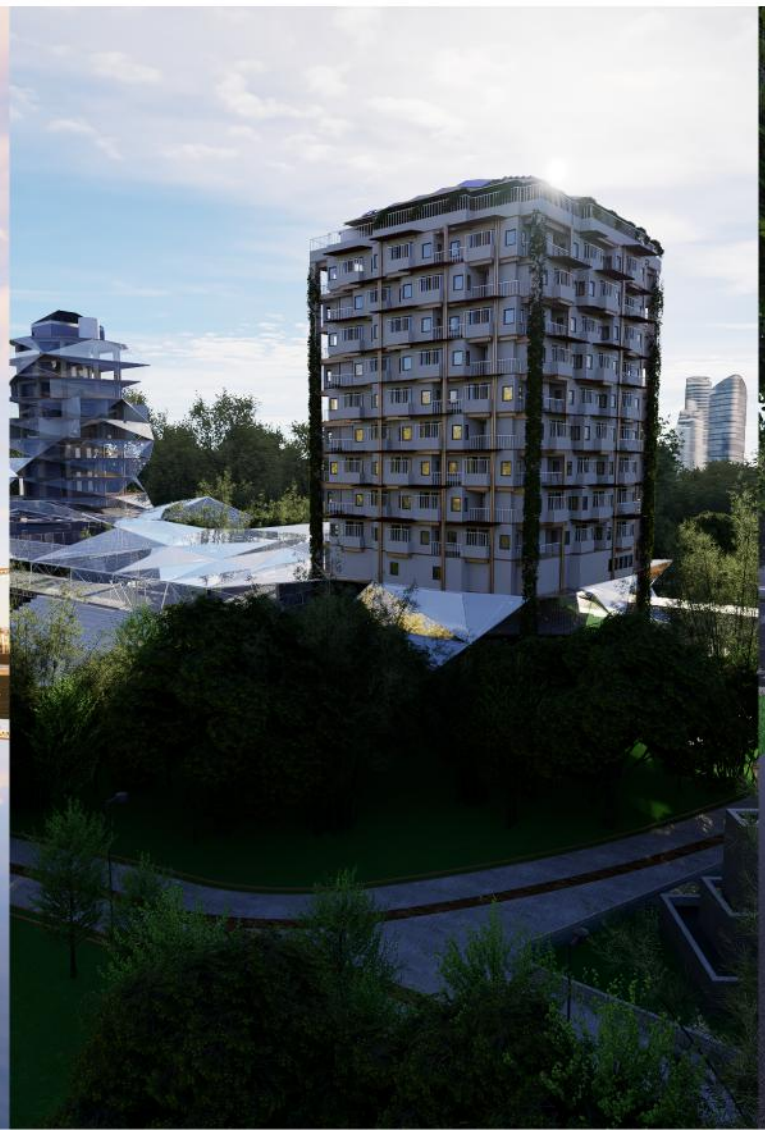
+62 878 4117 0037

https://linktr.ee/MiKur
https://www.researchgate.net/profile/Michael-Kurniawan-13/research
https://www.instagram.com/michael087982

Skillsets

Autodesk **Revit**	Advanced	**English**	Proficient
D5 Render	Advanced	**Bahasa Indonesia**	Native
Autodesk **Autocad**	Confident		
Autodesk **Forma**	Confident		
Microsoft **Excel**	Confident		
Autodesk **CFD**	Confident		
DaVinci Resolve	Intermediate		
Clip Studio Paint	Intermediate		
Sketchup	Novice		
Adobe **Photoshop**	Novice		

Contents

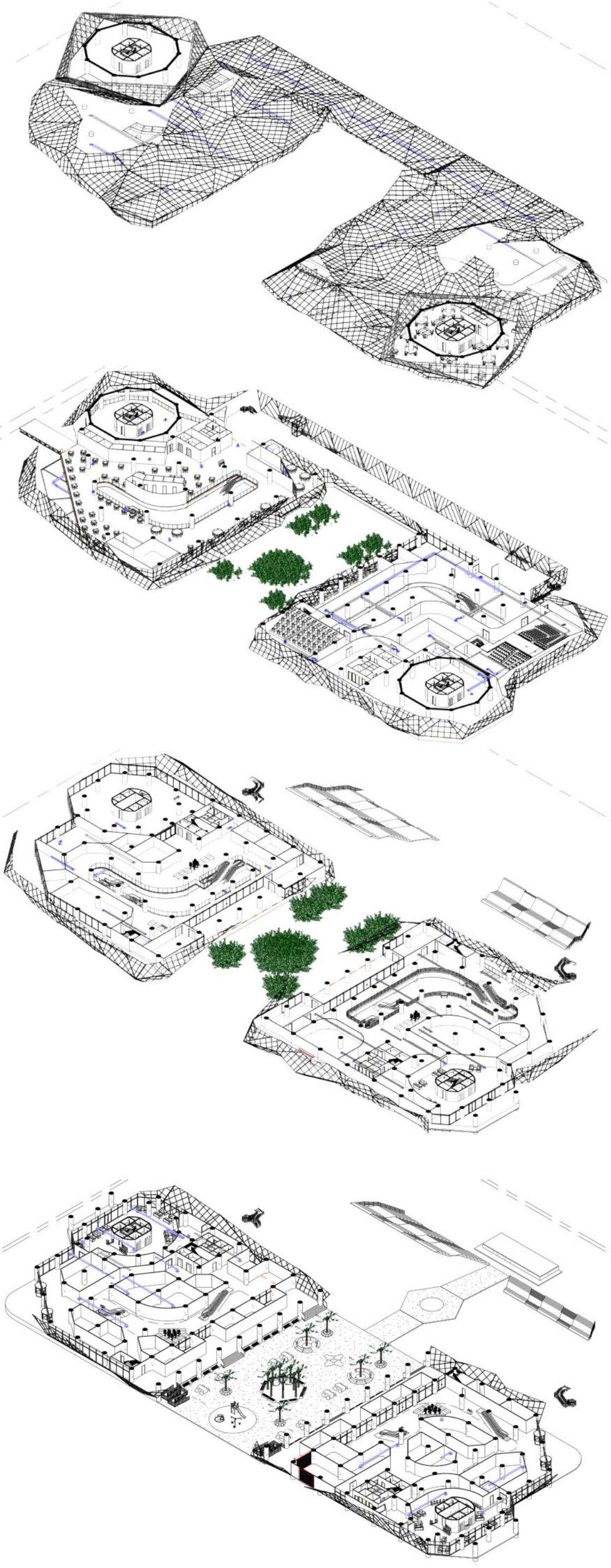


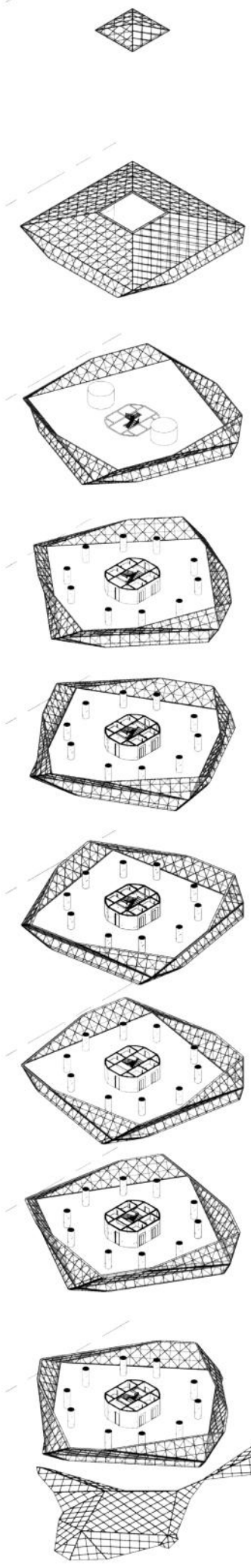
22 Blume **23** Stahl **24** Suguru

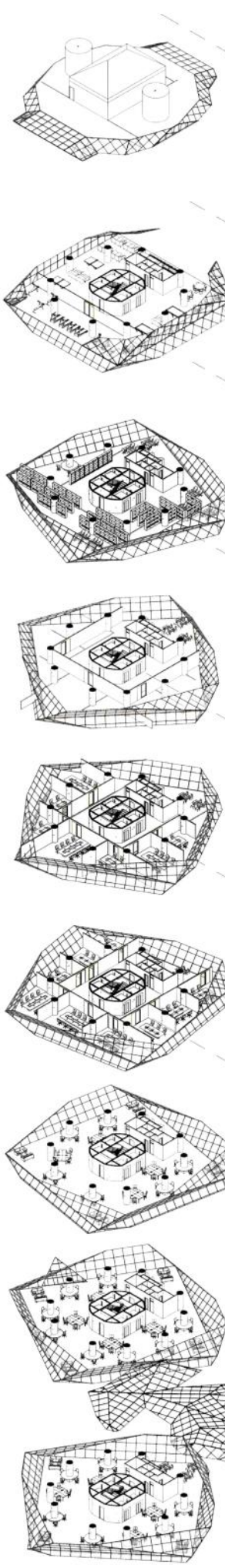
Synera

Brief Overview	Located in Surabaya, this mixed-use project integrates public retail with residential planning. The design consists of a retail podium anchored by two distinct towers one functioning as a co-working space and the second allocated for future vertical housing development.
Site	Balas Klumprik, Kec. Wiyung, Surabaya, Jawa Timur, Indonesia
Type	Cycling Center, Public-Commercial
Site Area	16278 m^2
Floor Area	
Project	Mid-rise Public Facility | 5th Term
Tutor	Timoticin Kwanda, B.Sc., MRP., Ph.D

Exploded axonometric floor 1 - 4

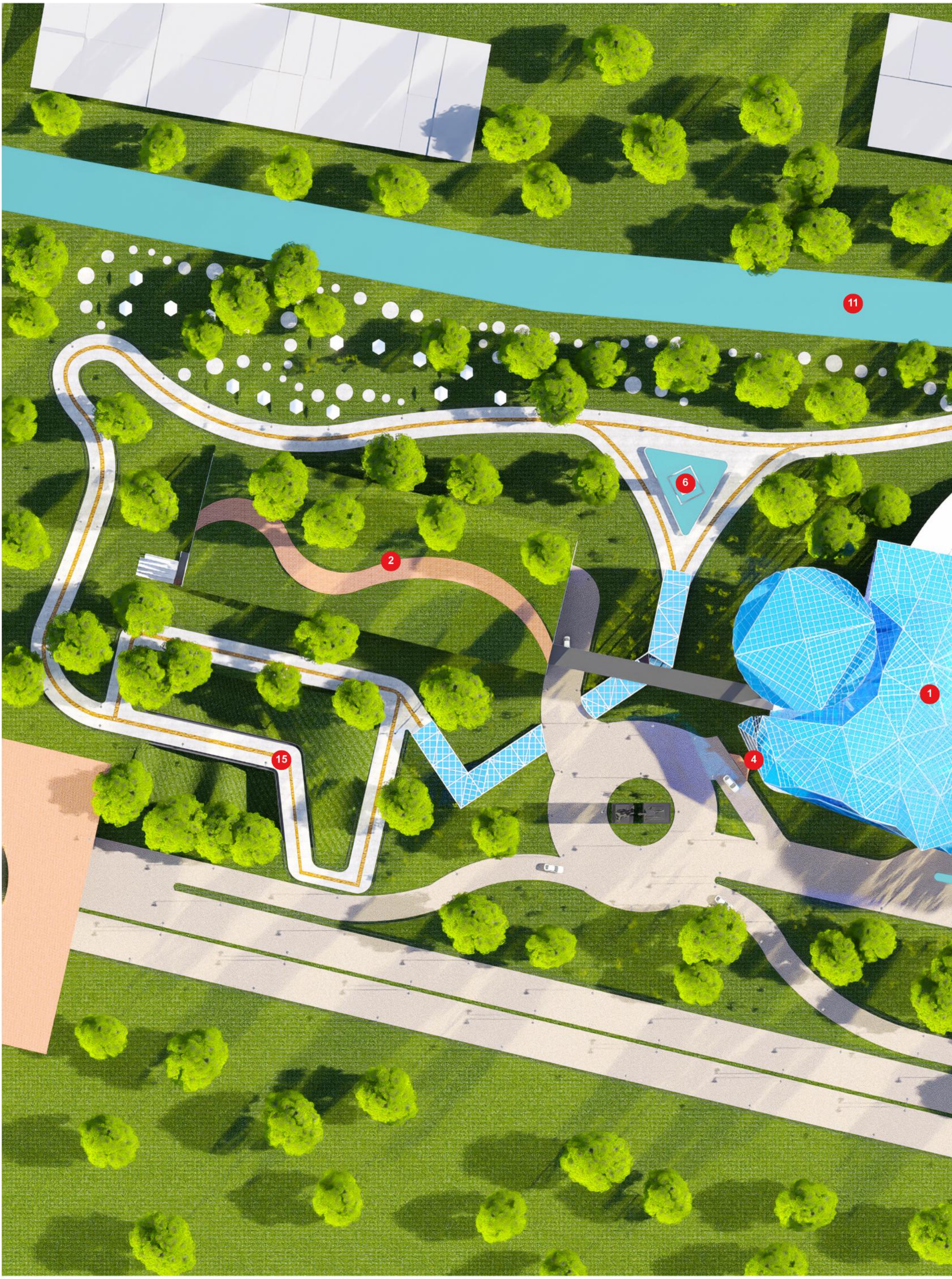






Exploded axonometric floor 5 - 12

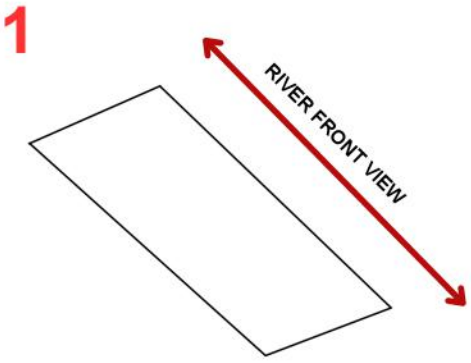
Site plan




LEGEND
1. MAIN BUILDING
2. PARK (UNDERGROUND PARKING)
3. SECONDARY PARKING AREA
4. MALL LOBBY
5. TOWER LOBBY
6. PLAZA
7. COMMUNAL SPACE
8. ENTRANCE
9. EXIT
10. LOADING DOCK
11. RIVER FRONT
12. STAGE
13. OPEN AMPHITHEATER
14. PLAYGROUND
15. SKATEBOARD PARK
16. UNDERPASS
17. RETENTION POND
18. STATUE
19. EXISTING SCHOOL
20. BRIDGE LINK

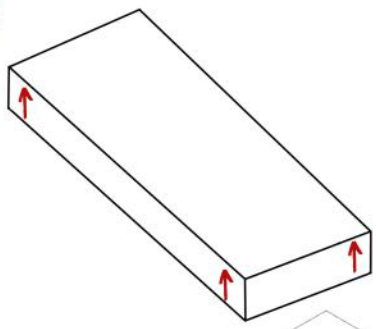
Form Transformation

1



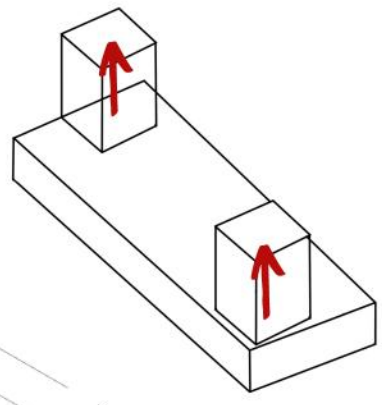
FOLLOW SITE TOPOGRAPHY: The building mass is shaped to fit the overall shape of the site.

2

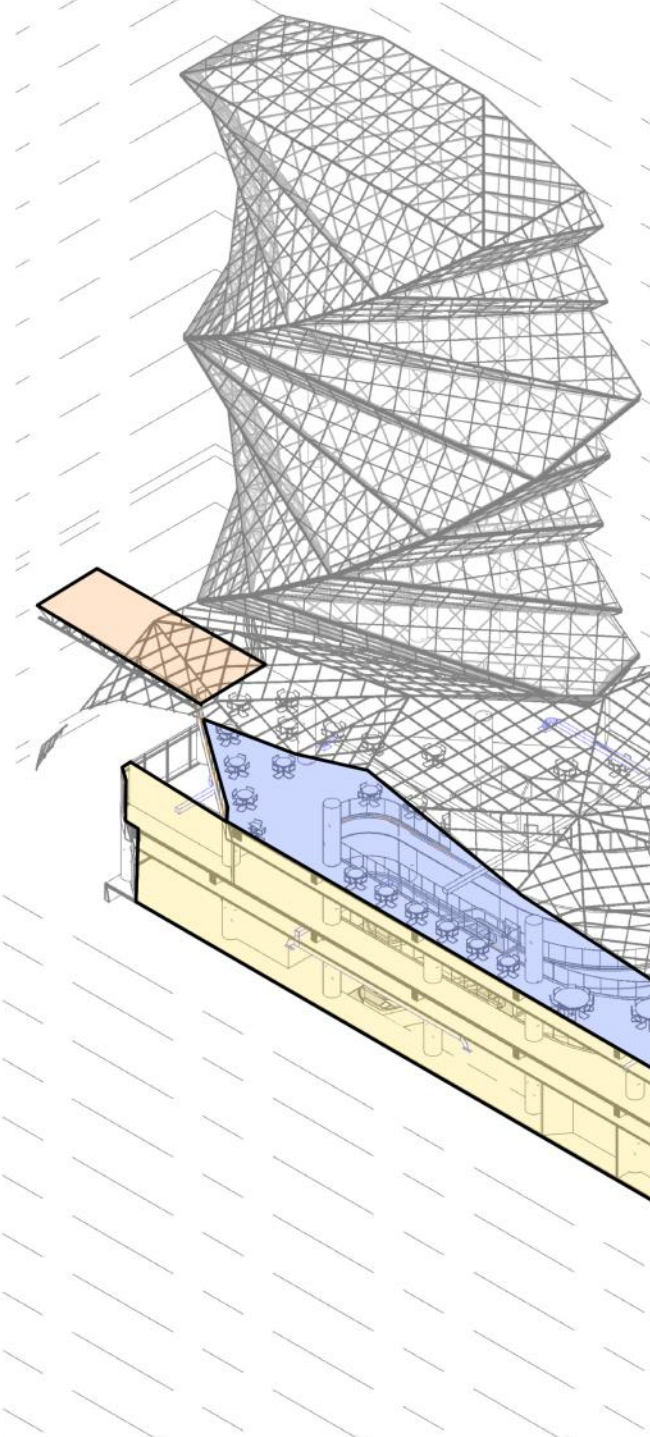


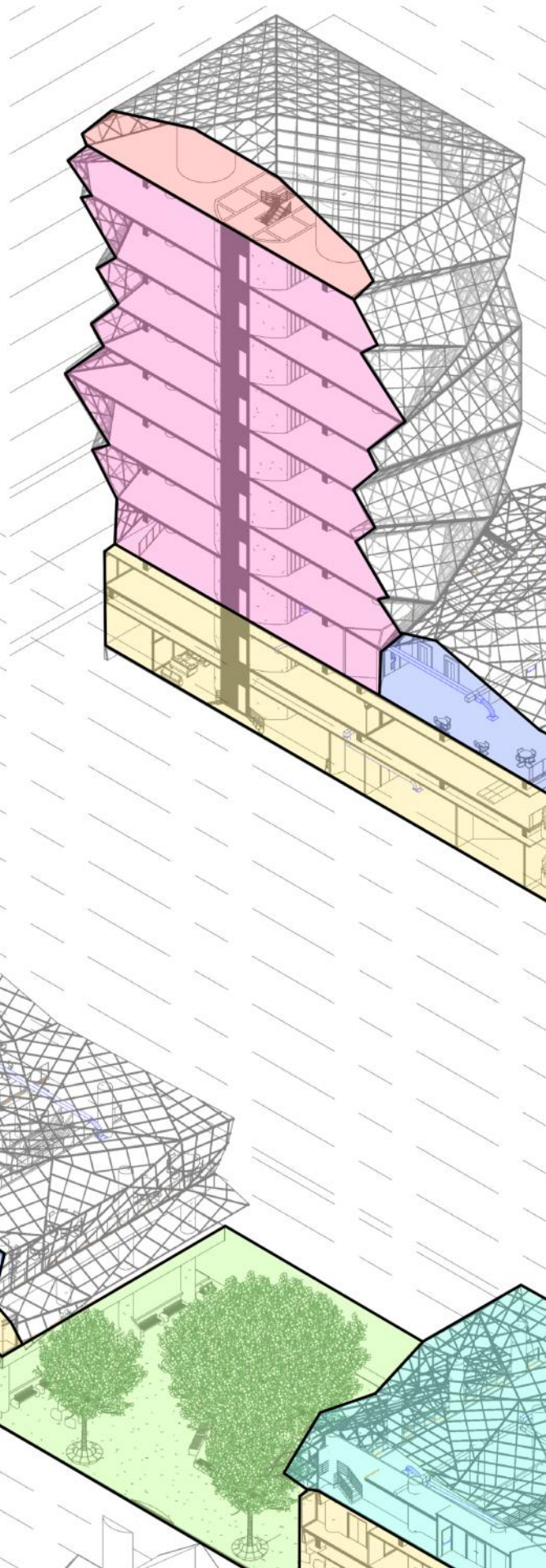
DEFINE BUILDING VOLUME: The basic building volume is formed to set its overall size and proportion.

3



FOLLOW FUNCTION: The mass is arranged based on its functions — rented apartments and office areas.





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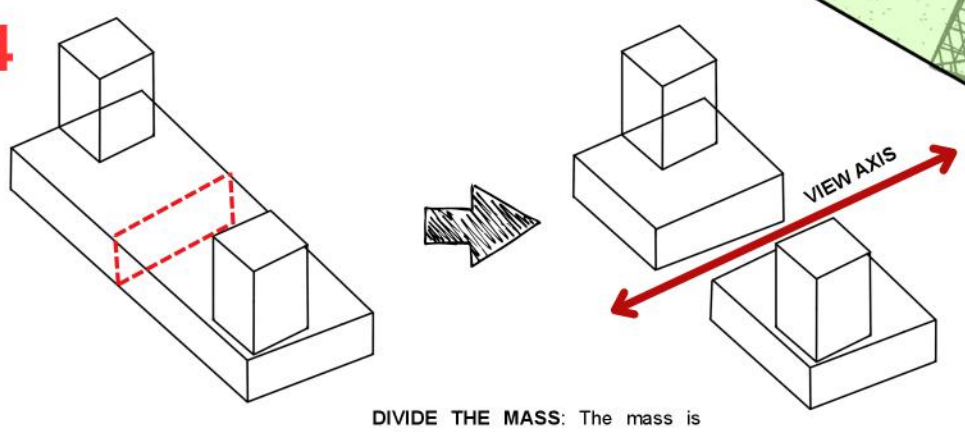
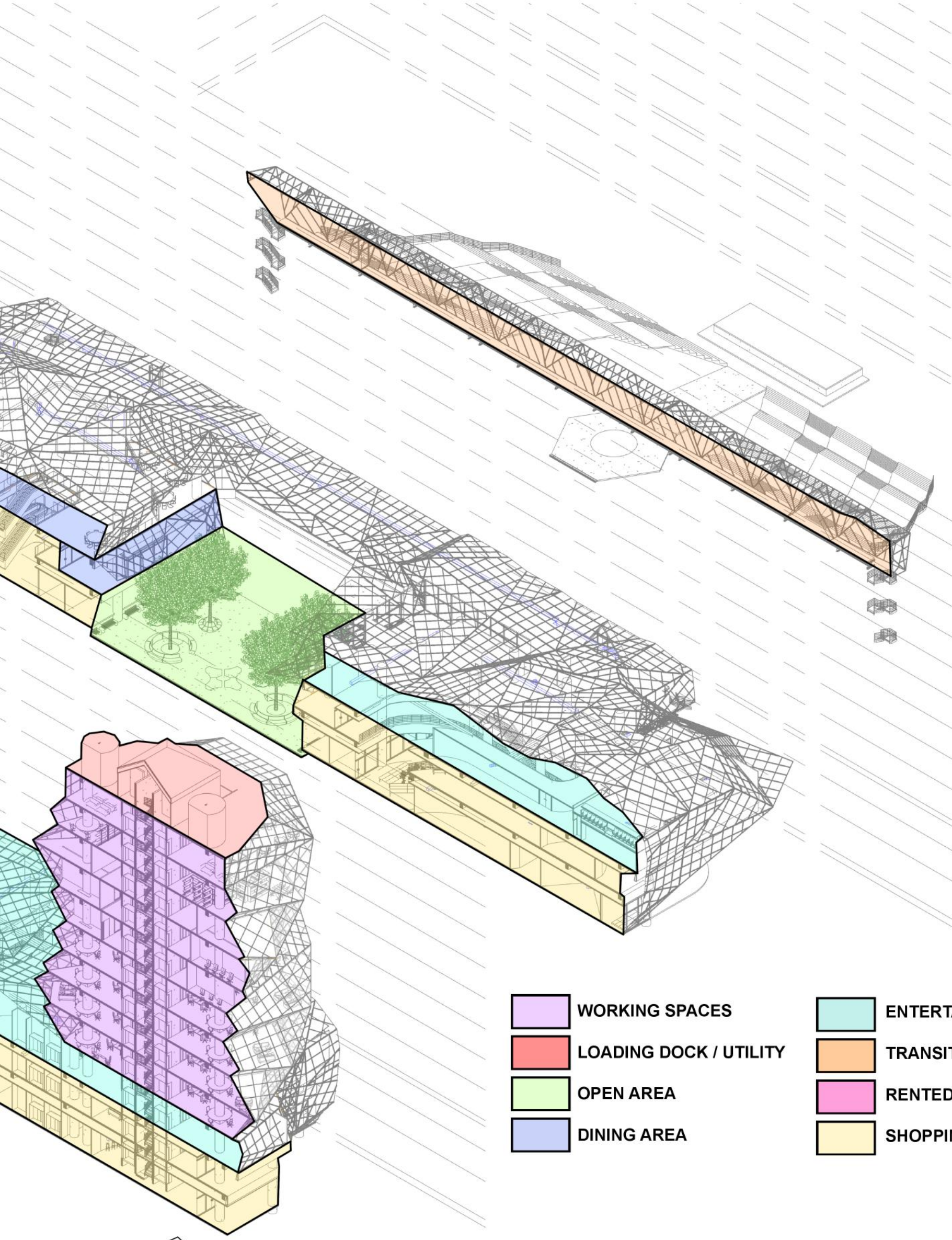


DIVIDE THE MASS: The mass is split into two parts to create an open space in the middle and help countermeasure earthquake risk.

Axonometric building



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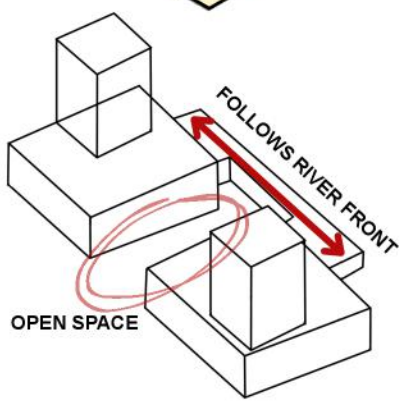
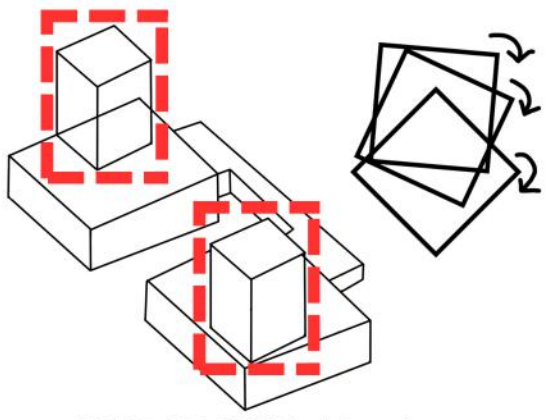


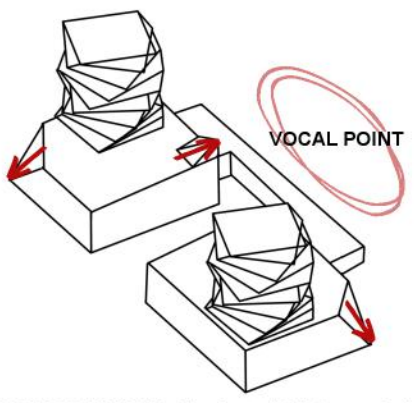
CONNECT THE MASS: The two masses are linked with a bridge to ensure circulation continuity and visual connection between functions.

6



ROTATE FOR VIEW: Each floor of the tower is rotated by 20 degrees to get a wider and better view.

7

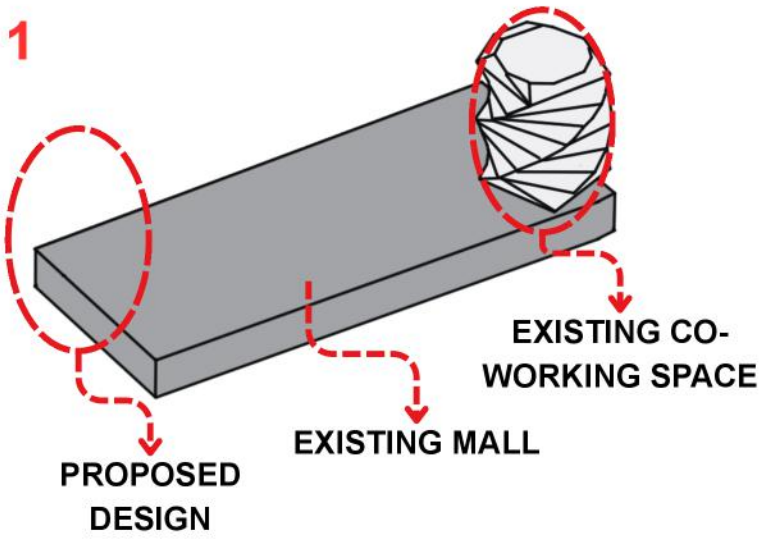


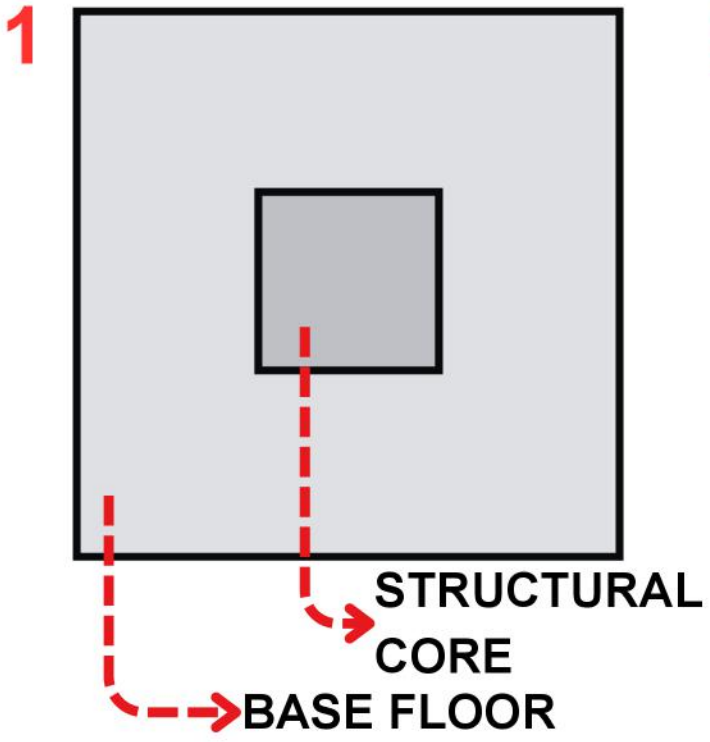
ADJUST MASS HEIGHT: The front (lobby) area is lowered to create a more human-scale entrance, while the part with the best view is raised to show hierarchy.

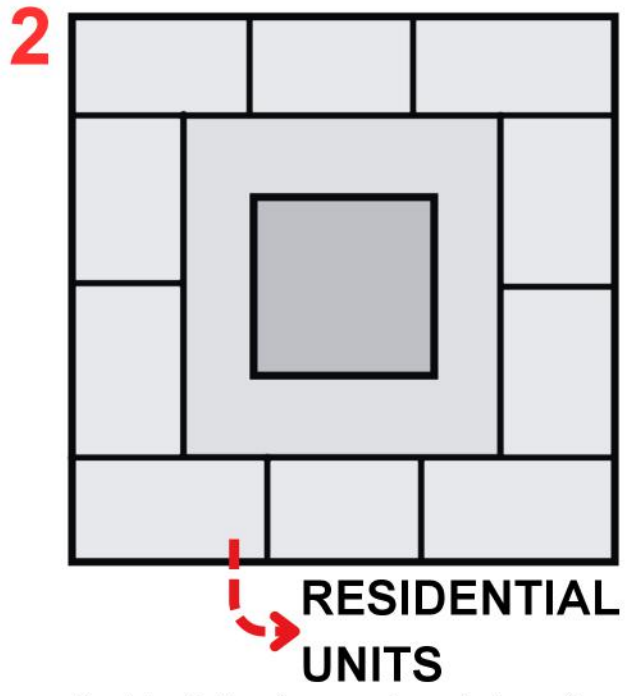
zoning

Shirogane

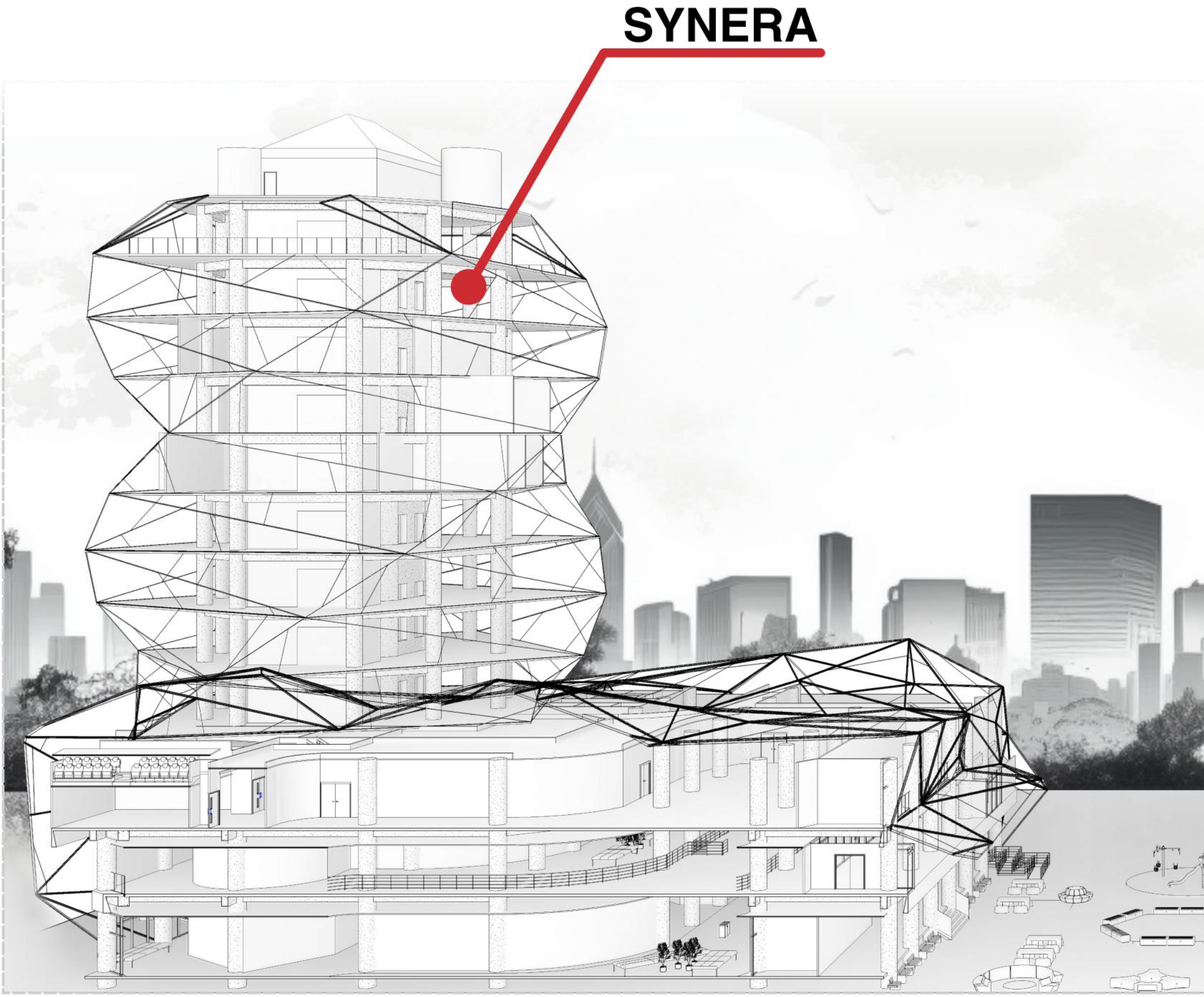
Brief Overview	This project details the second tower of the development, proposed as a rusunawa. The design focuses on sustainable, passive strategies specifically maximizing natural ventilation and daylighting for the residents.
Site	Balas Klumprik, Kec. Wiyung, Surabaya, Jawa Timur, Indonesia
Type	Mid-rise Structure, Residential
Site Area	16278 m^2
Floor Area	
Project	Sustainable Housing Design | 6th Term
Tutor	Timoticin Kwanda, B.Sc., MRP., Ph.D





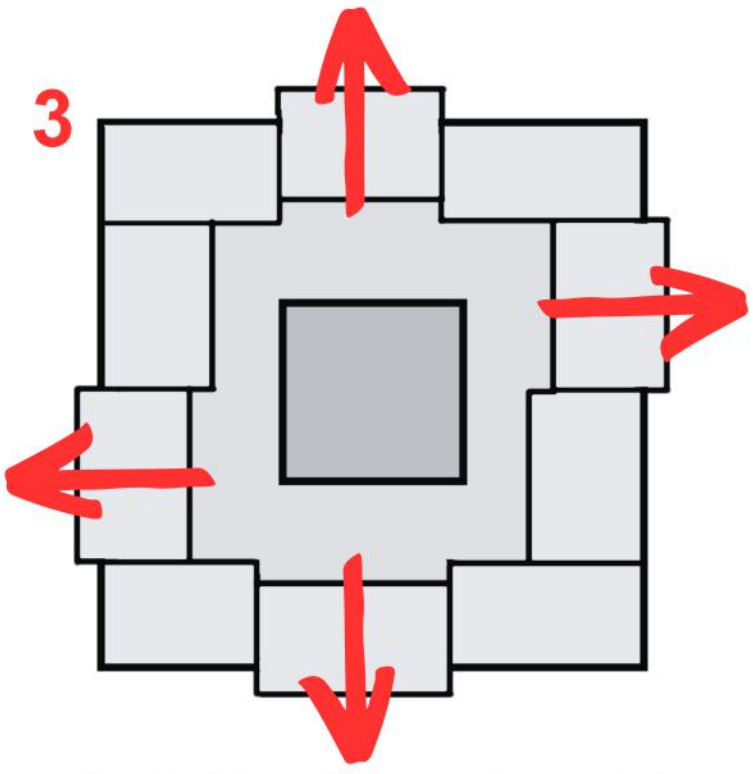


Residential units are placed along the building **perimeter** to maximize **natural daylight**.



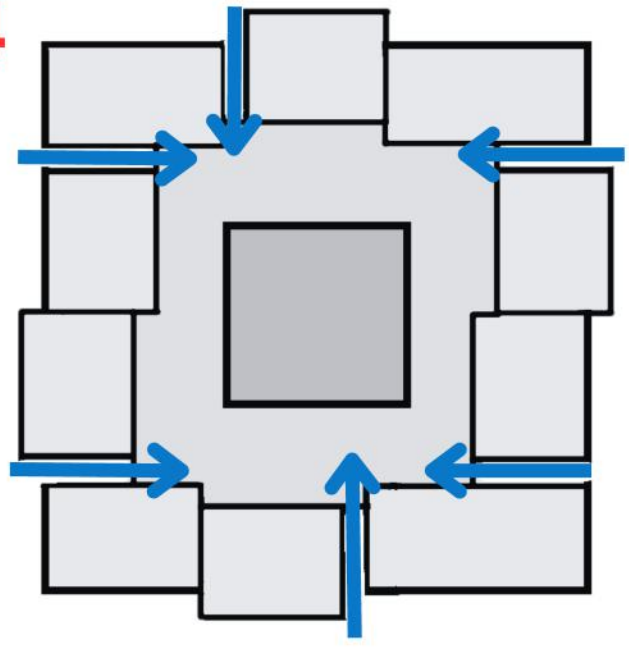
Synera perspective section

3



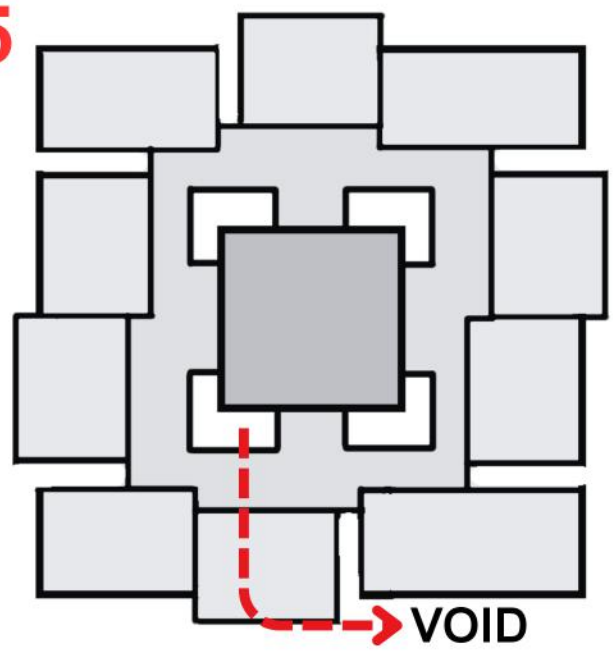
Residential units are **staggered** to improve **daylight penetration** and **cross-ventilation**.

4

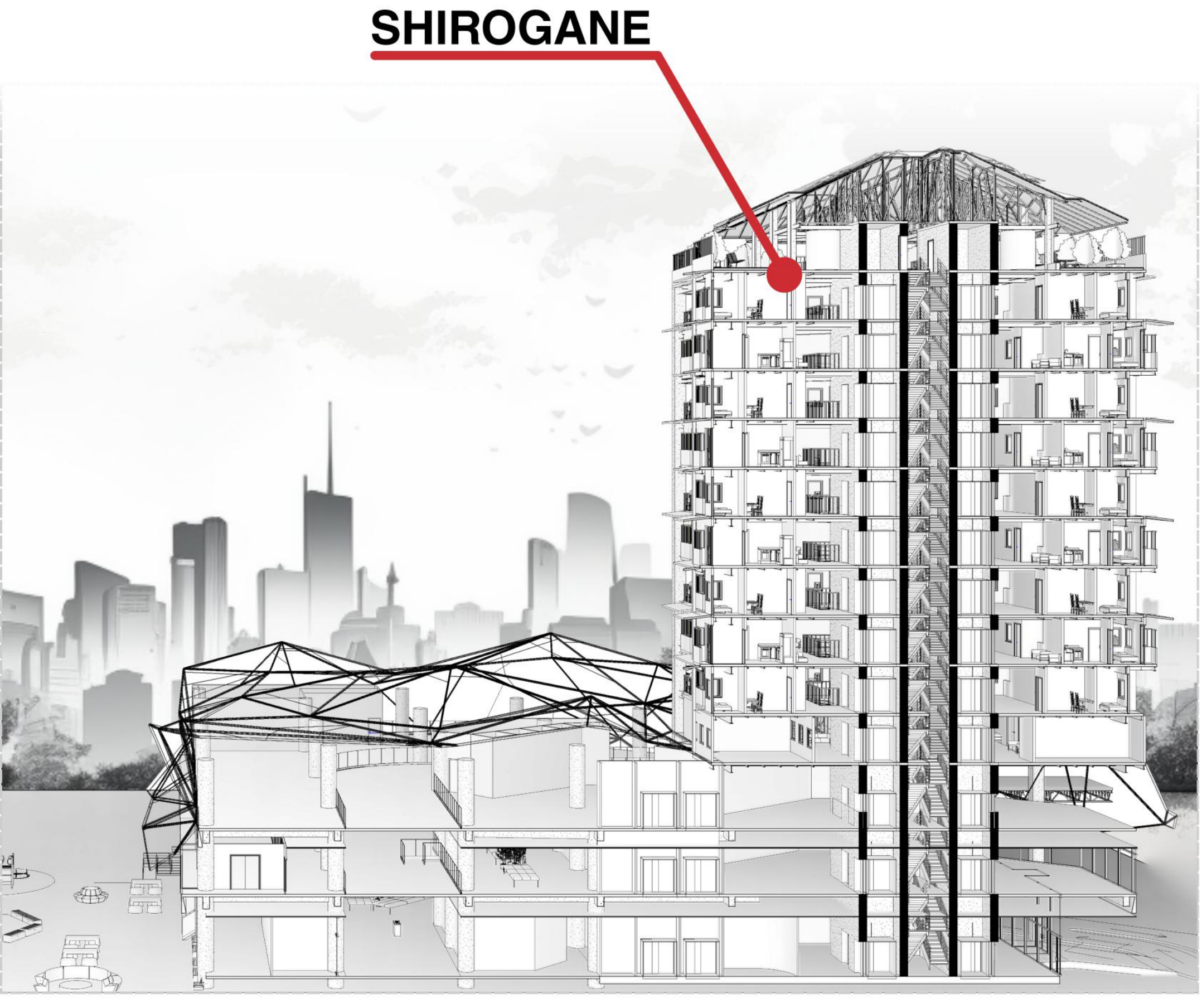


Gaps are introduced **between rooms** to form **wind corridors**, utilizing the **Bernoulli effect** to **enhance airflow**.

5



A central **void** is introduced to generate **stack-effect ventilation**, while the layout is rotated in an alternating **odd–even pattern**.



Shirogane perspective section

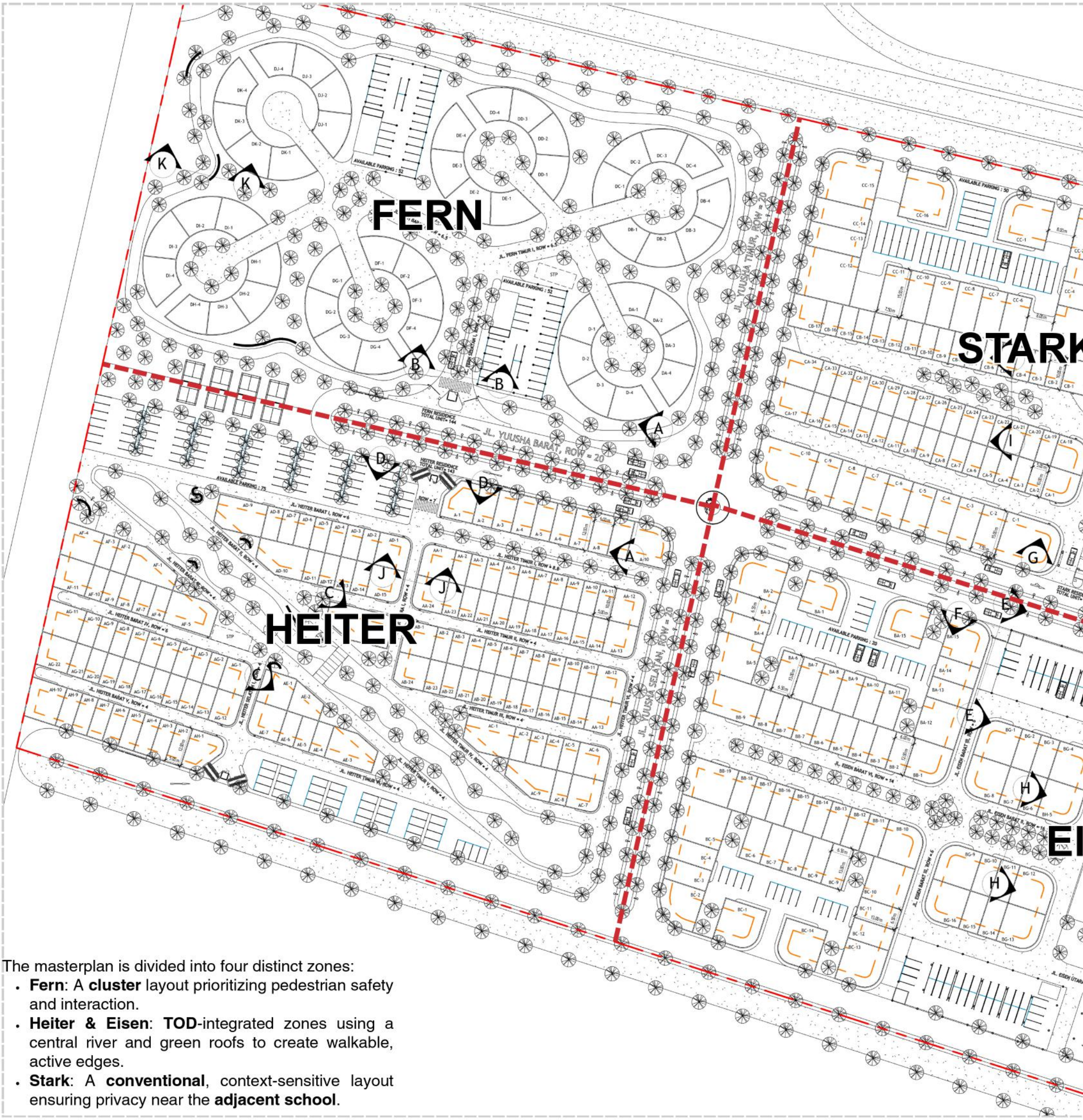
Yuusha

a Masterplan

Brief Overview	The masterplan proposes a residential environment where social connection dictates the design of daily living. Addressing the issue of urban isolation, the project relies on the philosophy that "no one faces life alone" to reorganize a standard site plan into an integrated system of communal spaces.
Site	Balas Klumprik, Kec. Wiyung, Surabaya, Jawa Timur, Indonesia
Type	Urban planning, Residential
Site Area	137825 m²
Project	Real Estate Planning | 5th Term
Tutor	Timoticin Kwanda, B.Sc., MRP., Ph.D


SMPN 59
SURABAYA
STARK
EISEN
FERN
HEITER
JL. HEITER BARAT IV, ROW = 6
JL. HEITER BARAT V, ROW = 4

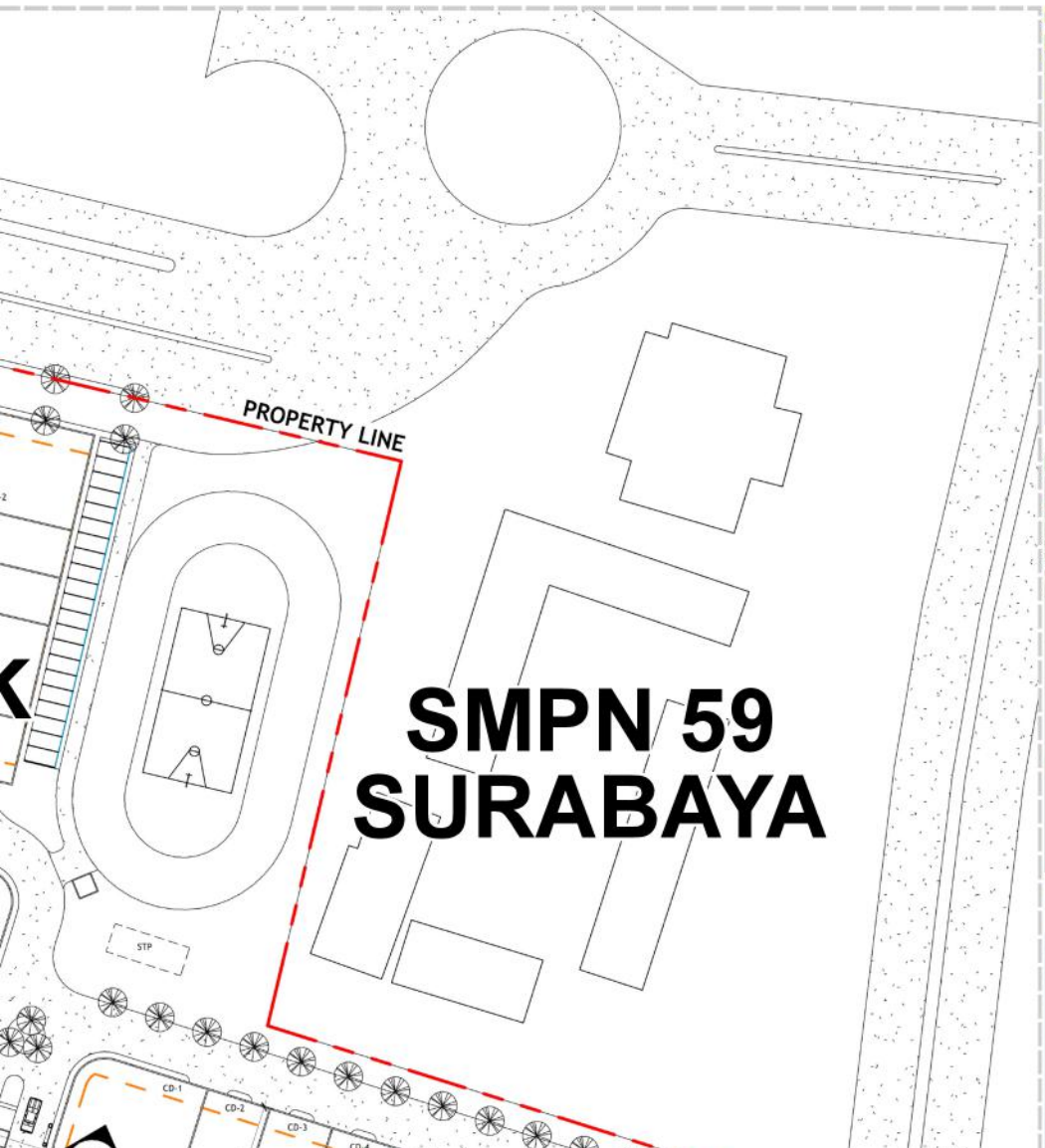
Site plan

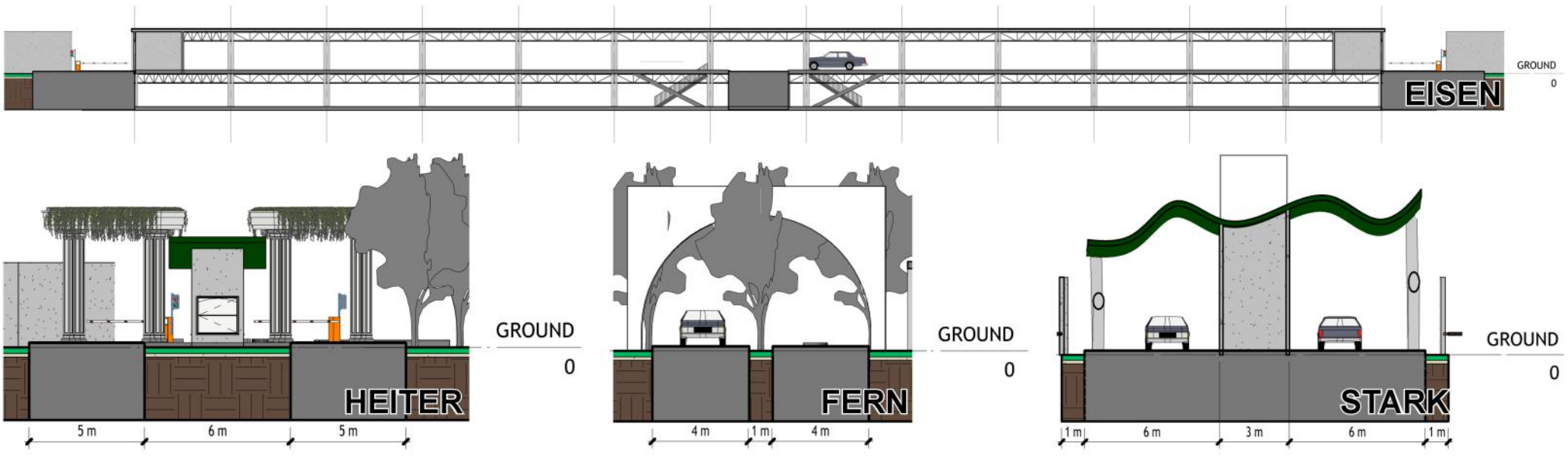


The masterplan is divided into four distinct zones:

- **Fern**: A **cluster** layout prioritizing pedestrian safety and interaction.
- **Heiter & Eisen**: **TOD**-integrated zones using a central river and green roofs to create walkable, active edges.
- **Stark**: A **conventional**, context-sensitive layout ensuring privacy near the **adjacent school**.

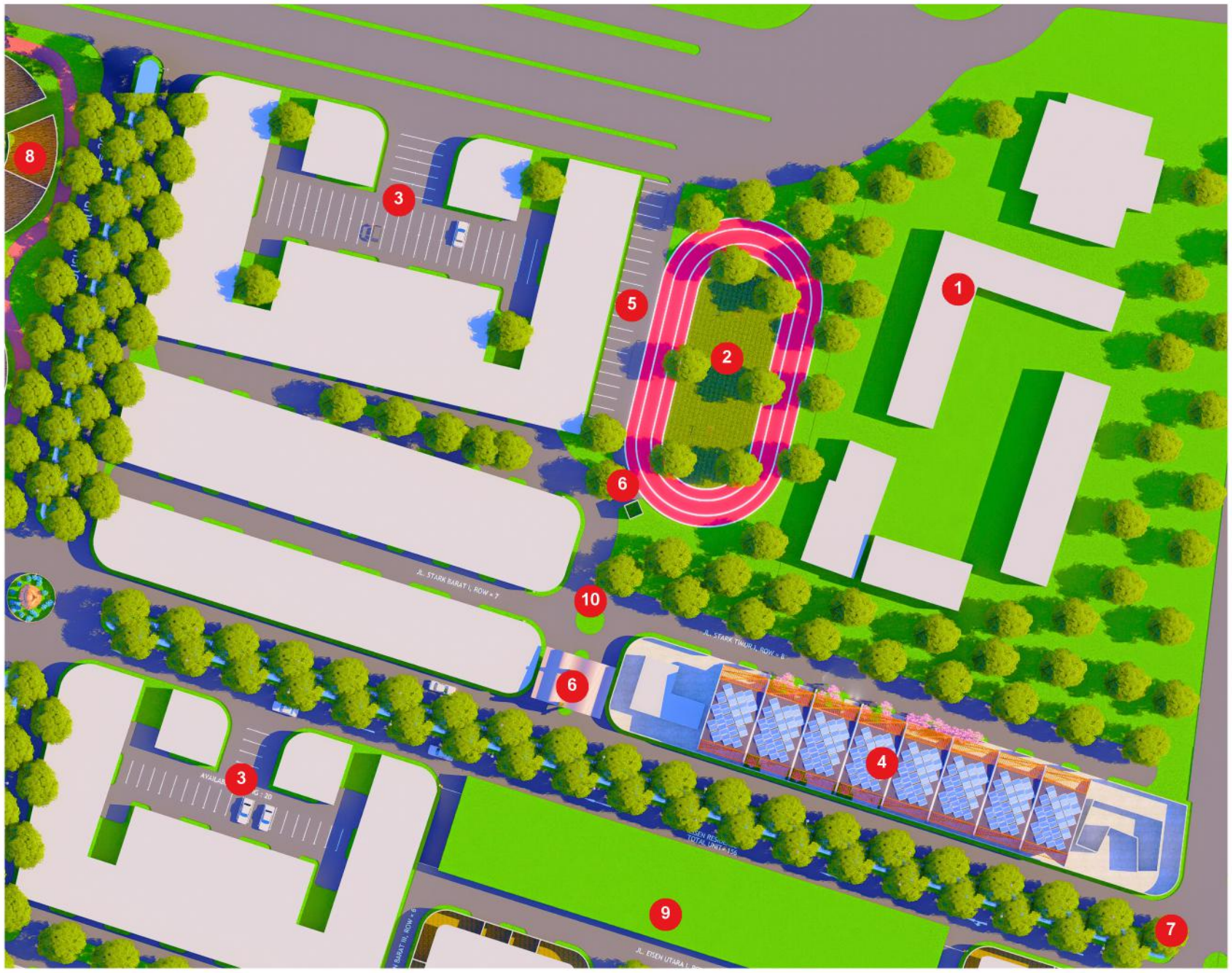
Intersection perspective





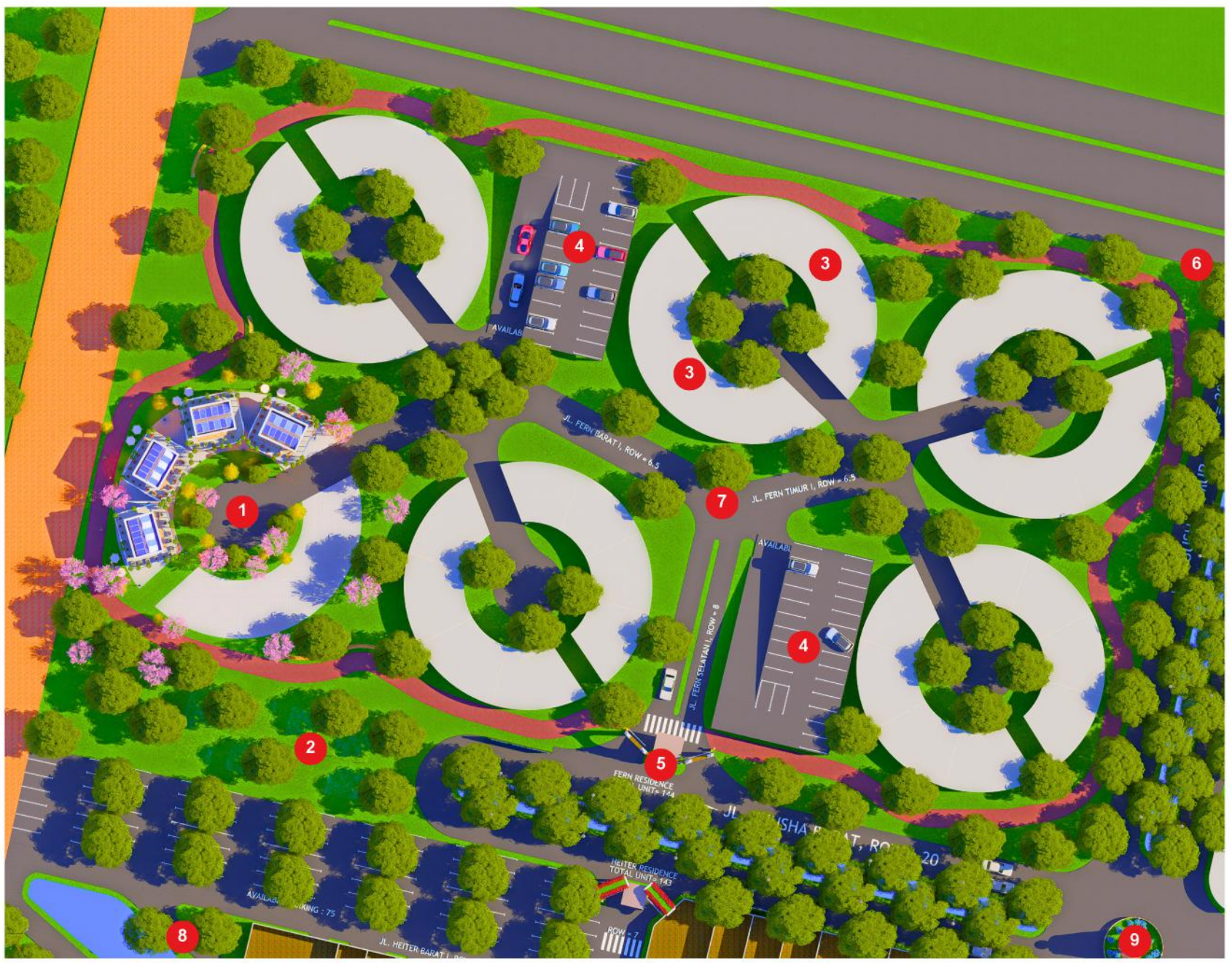
Gate Section

Stark site plan



LEGENDS

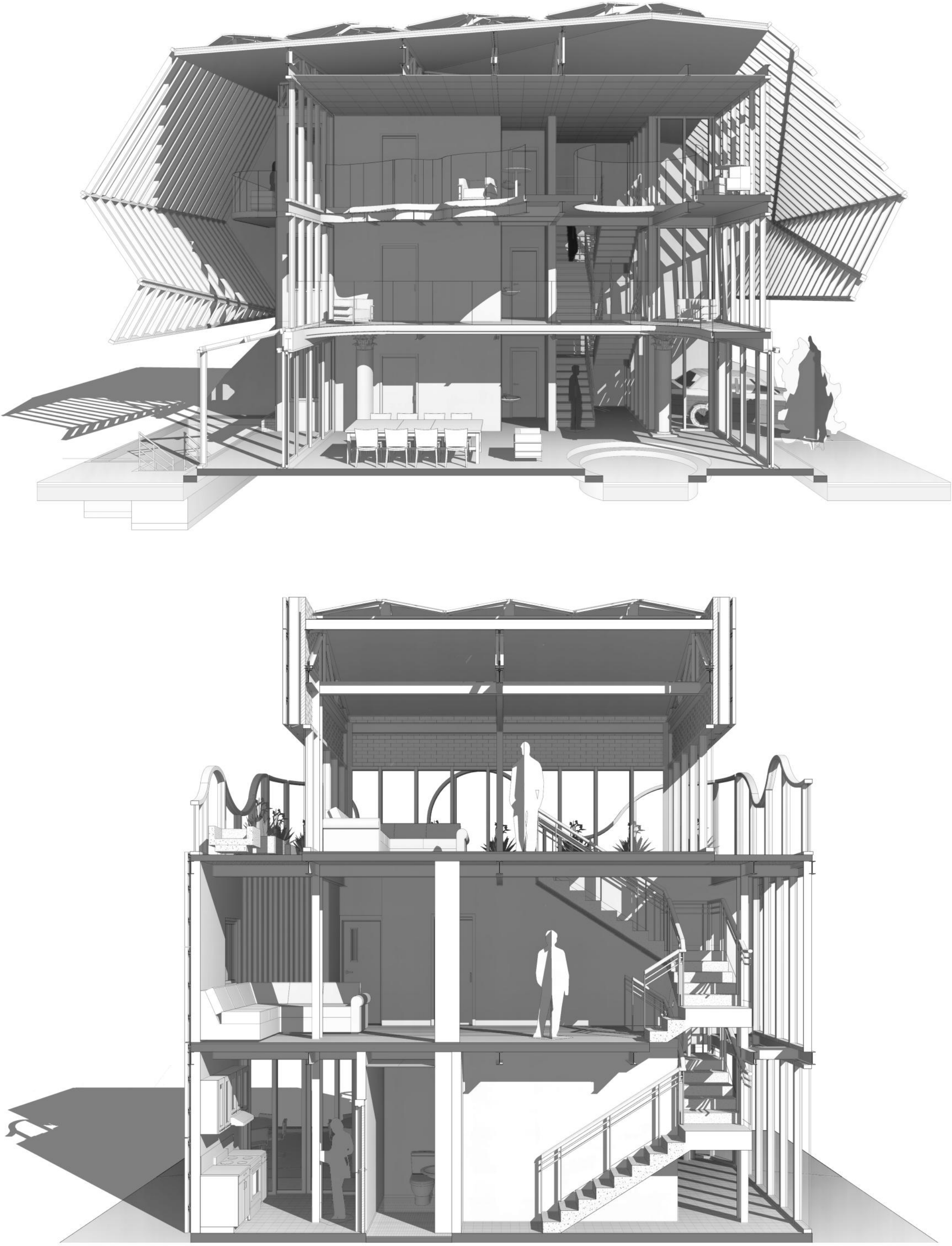
1. SMPN 59 SURABAYA
2. PARK
3. RETAIL STORES
4. STAHL HOUSINGS
5. PARKING
6. ENTRANCE GATE
7. MAIN GATE
8. FERN RESIDENCE
9. EISEN RESIDENCE
10. STARK RESIDENCE



LEGENDS

1. BLUME HOUSINGS
2. PARK
3. RETAIL STORES
4. PARKING
5. ENTRANCE GATE
6. MAIN GATE
7. FERN RESIDENCE
8. HEITER RESIDENCE
9. YUUSHA STATUE

Fern site plan



Fern perspective section

BLUME

: 100 m² : 190 m² : 3 : 2+1

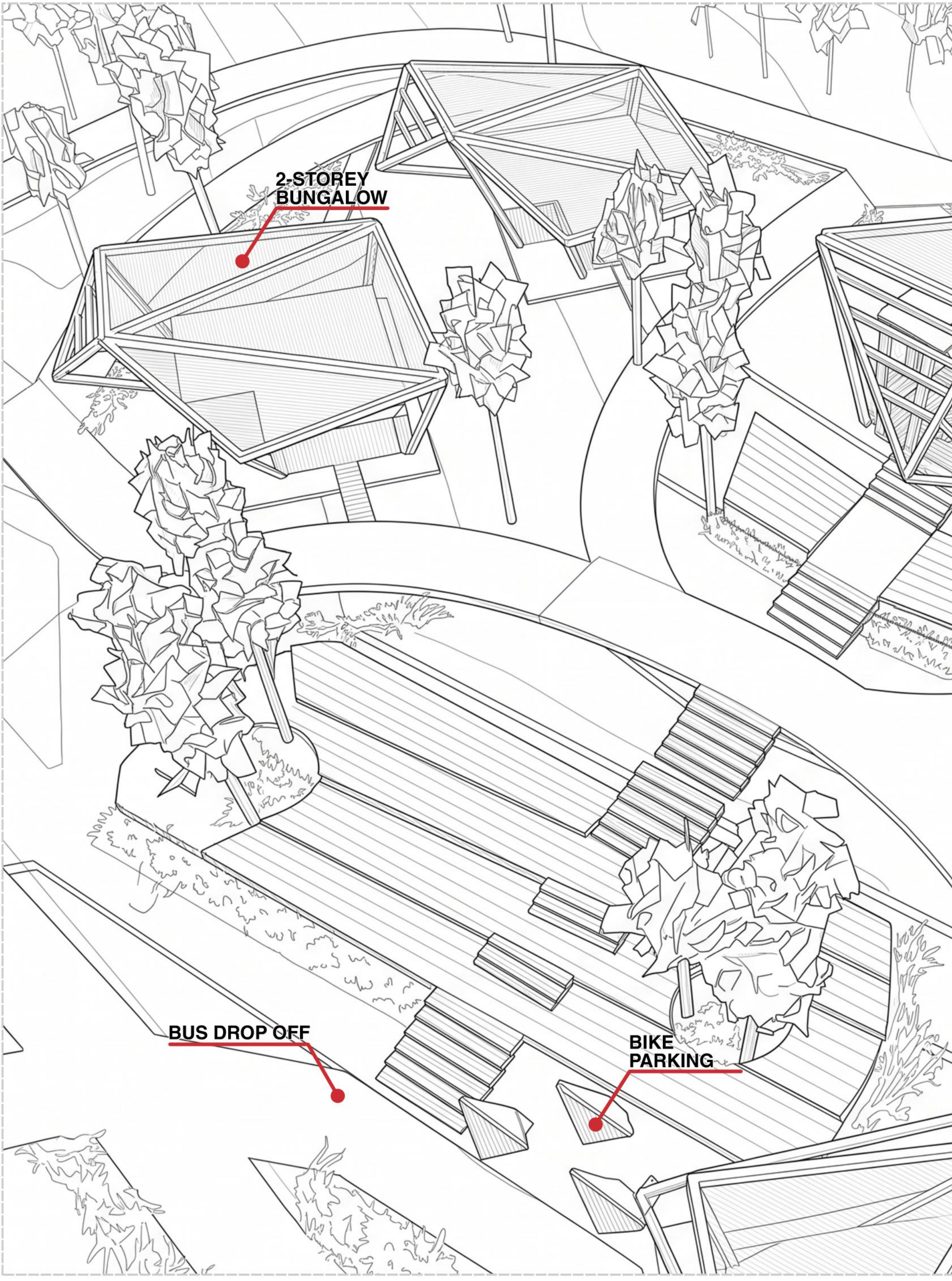
STAHL

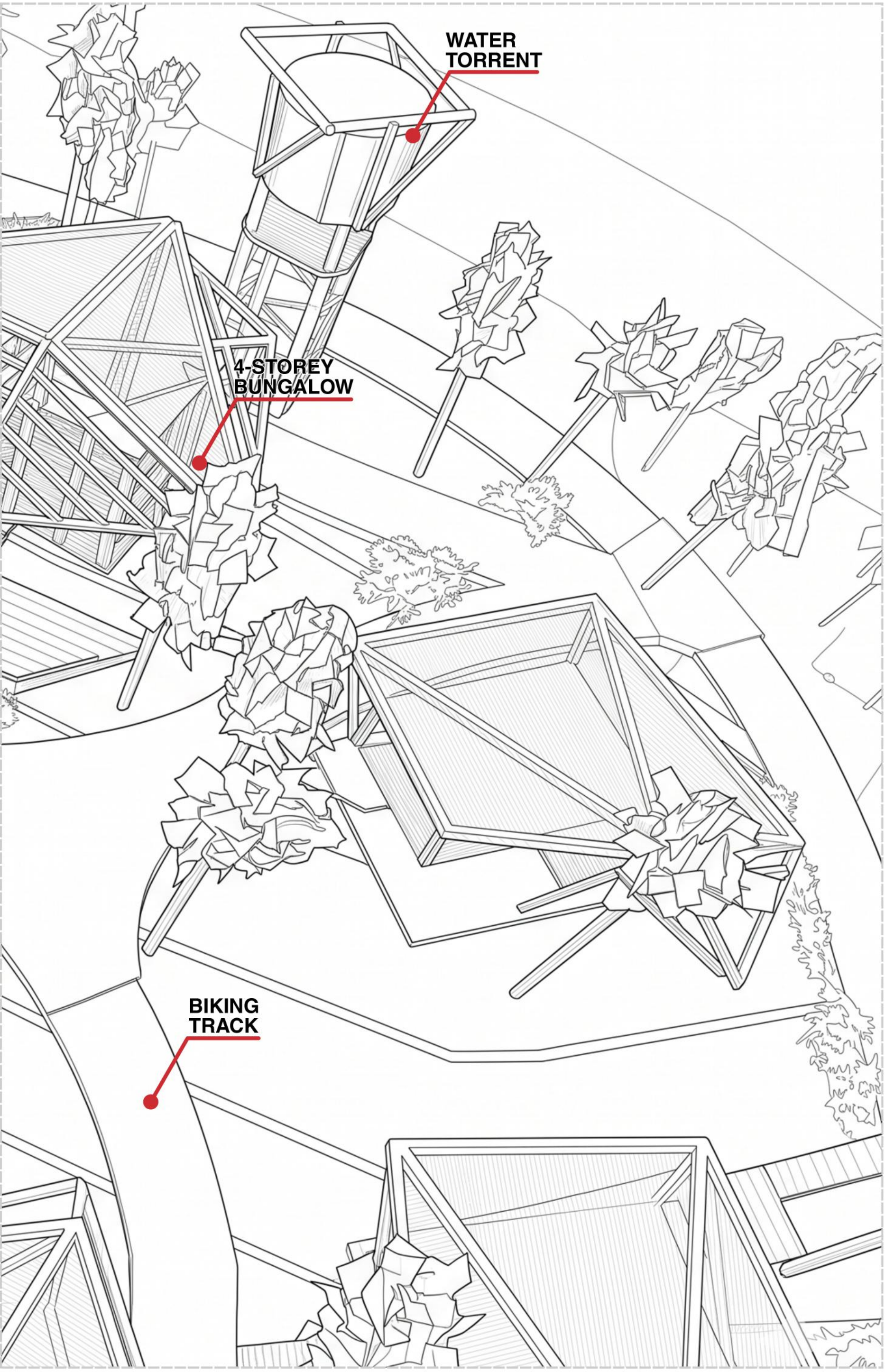
: 119 m² : 245 m² : 3 : 3 + 3

Suguru

Brief Overview	This project proposes a mixed use public commerical and residential in Trawas, transforming a vacant sloped site into a cycling training center but also notice inclusive design, lower level designed to be wheel chair friendly while upper level are only used for cycling track
Site	9J42+8X Tamiajeng, Mojokerto Regency, East Java
Type	Cycling Center, Public-Commercial
Site Area	1482 m^2
Elevation	+ 217 m
Project	Responding to Topography | 4th Term
Tutor	Roni Anggoro S.T., M. A. Arch

Original Reference


2-STOREY
BUNGALOW
BUS DROP OFF
BIKE
PARKING


WATER
TORRENT
4-STOREY
BUNGALOW
BIKING
TRACK

Contact

https://linktr.ee/MiKur
michael087982@gmail.com
+62 878 4117 0037

Michael Kurniawan