

# DANTE SOPRANO

Carlos Malmierca  
Minerva Cheung





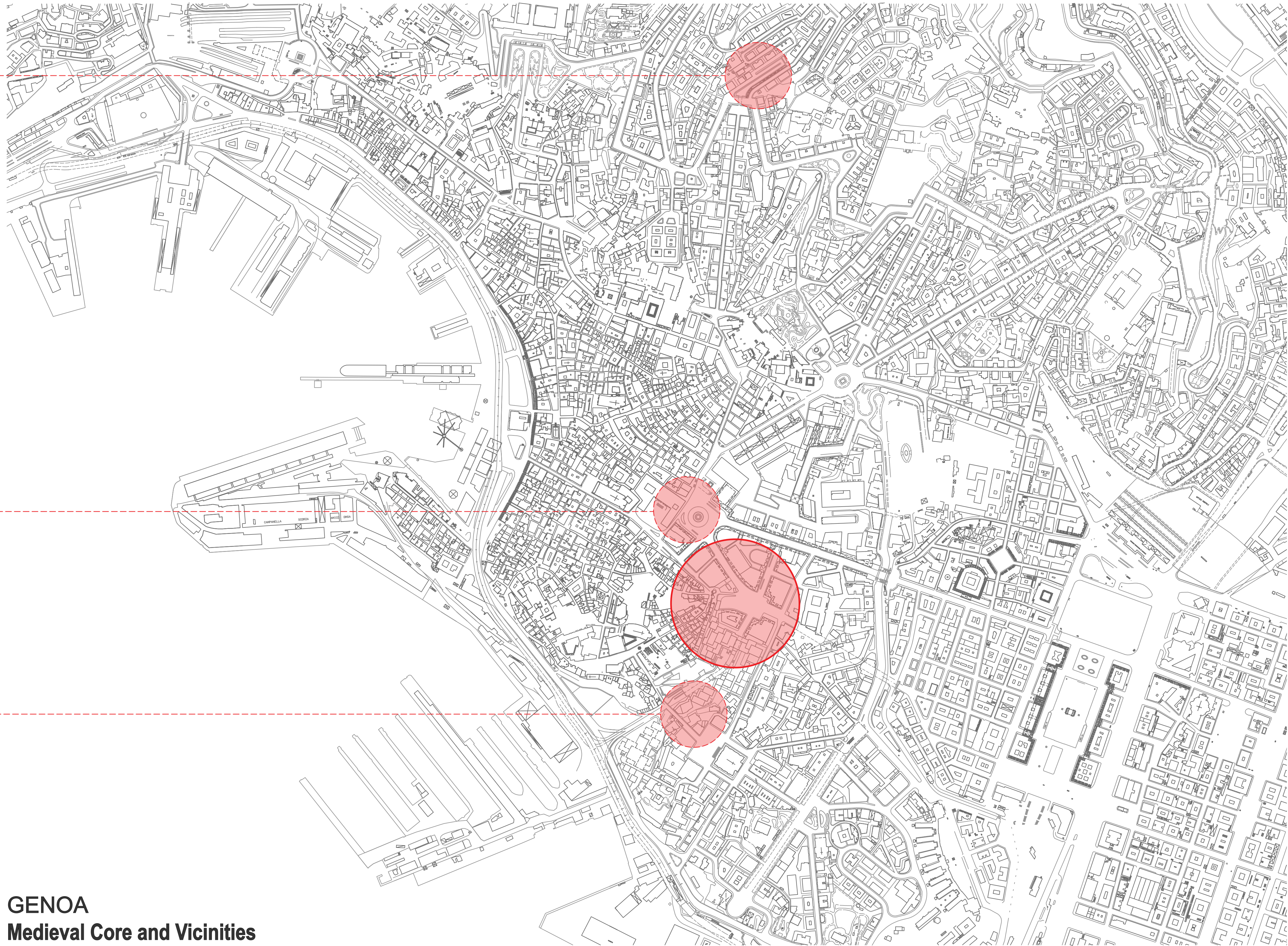
**VERTICAL CIRCULATION**  
Through Ground Movement



**WATER COOLING**  
Exterior Temperature Moderator

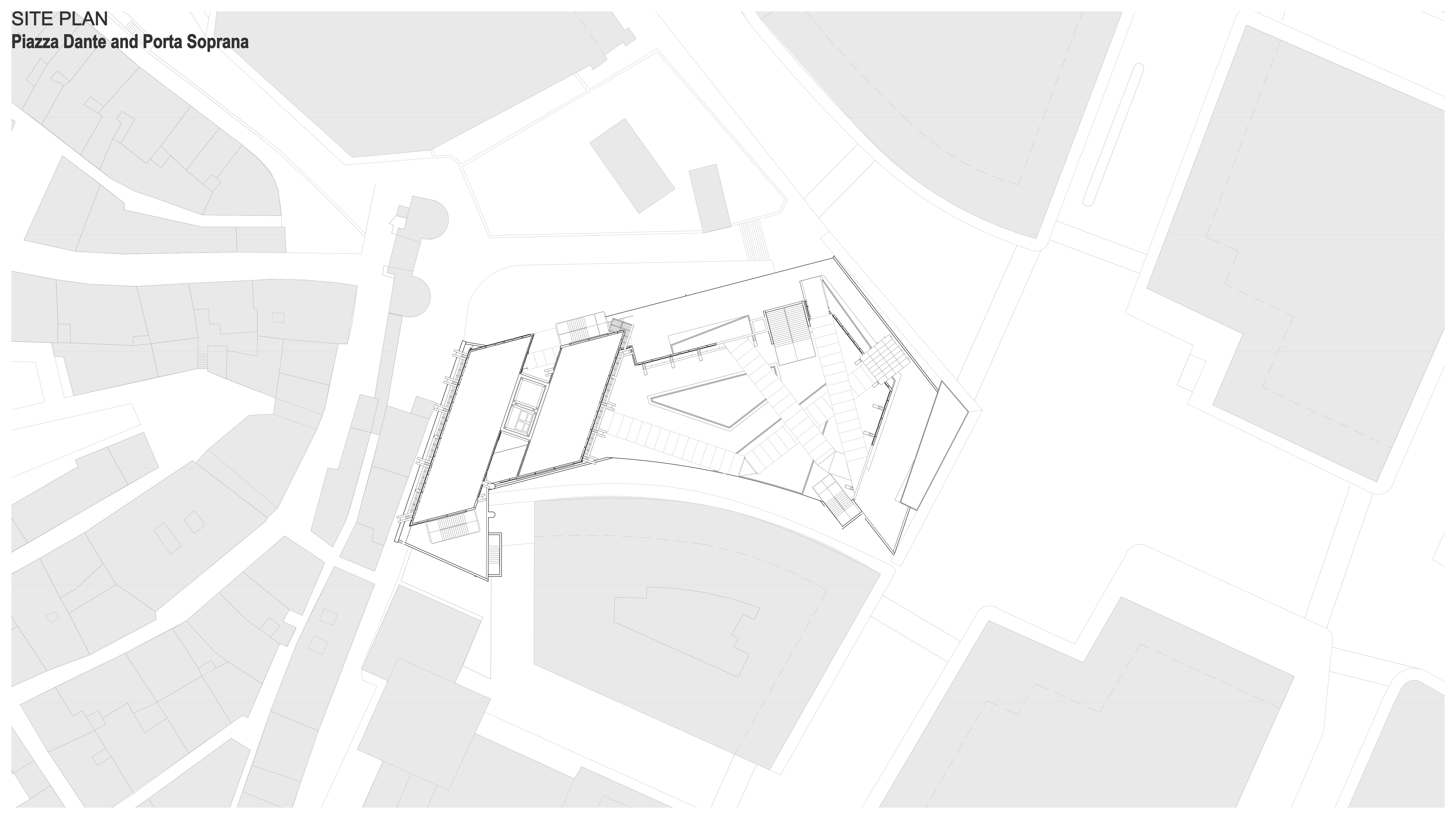


**GROUND CARVING**  
Integrated Green Space

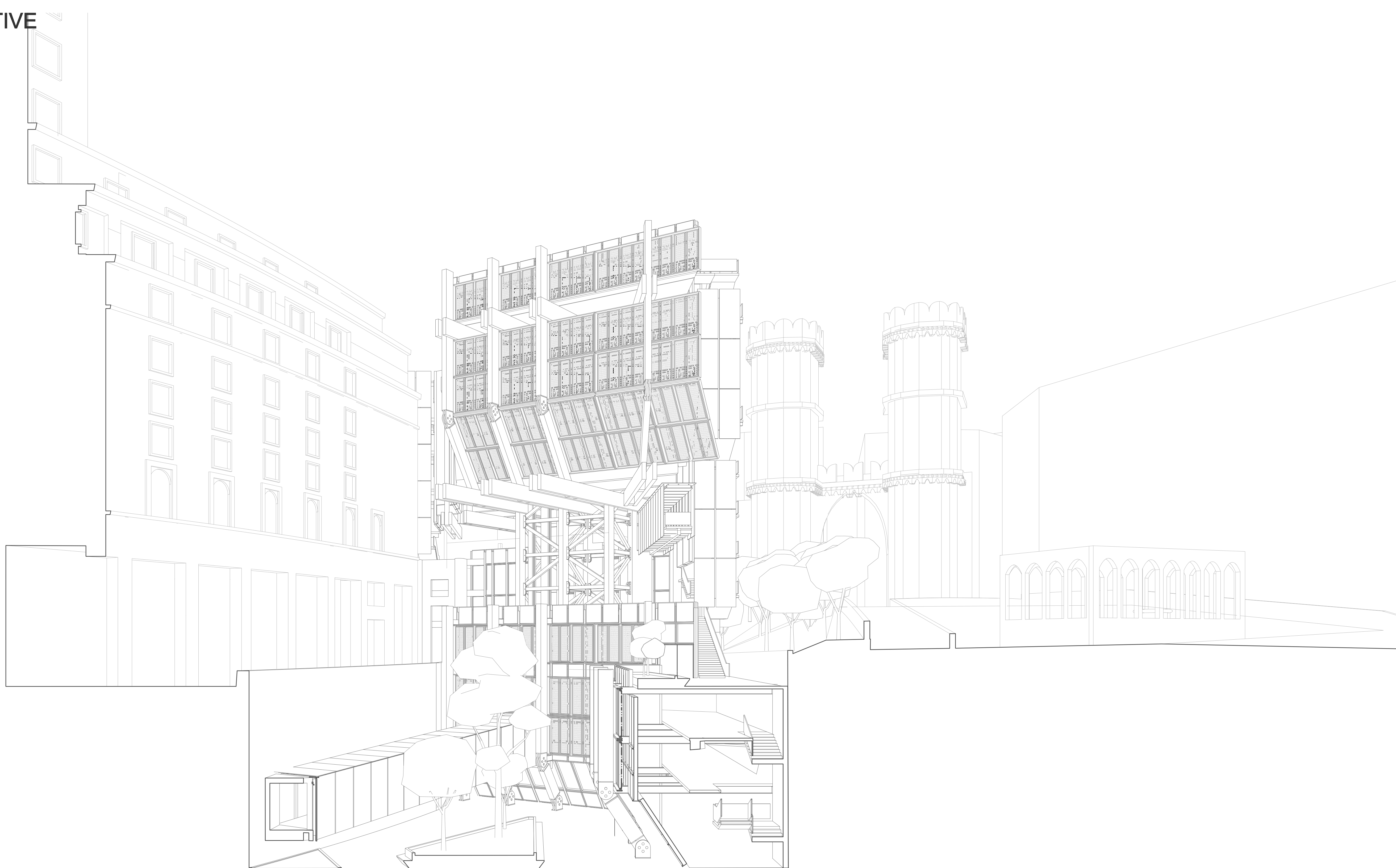


**GENOVA**  
Medieval Core and Vicinities

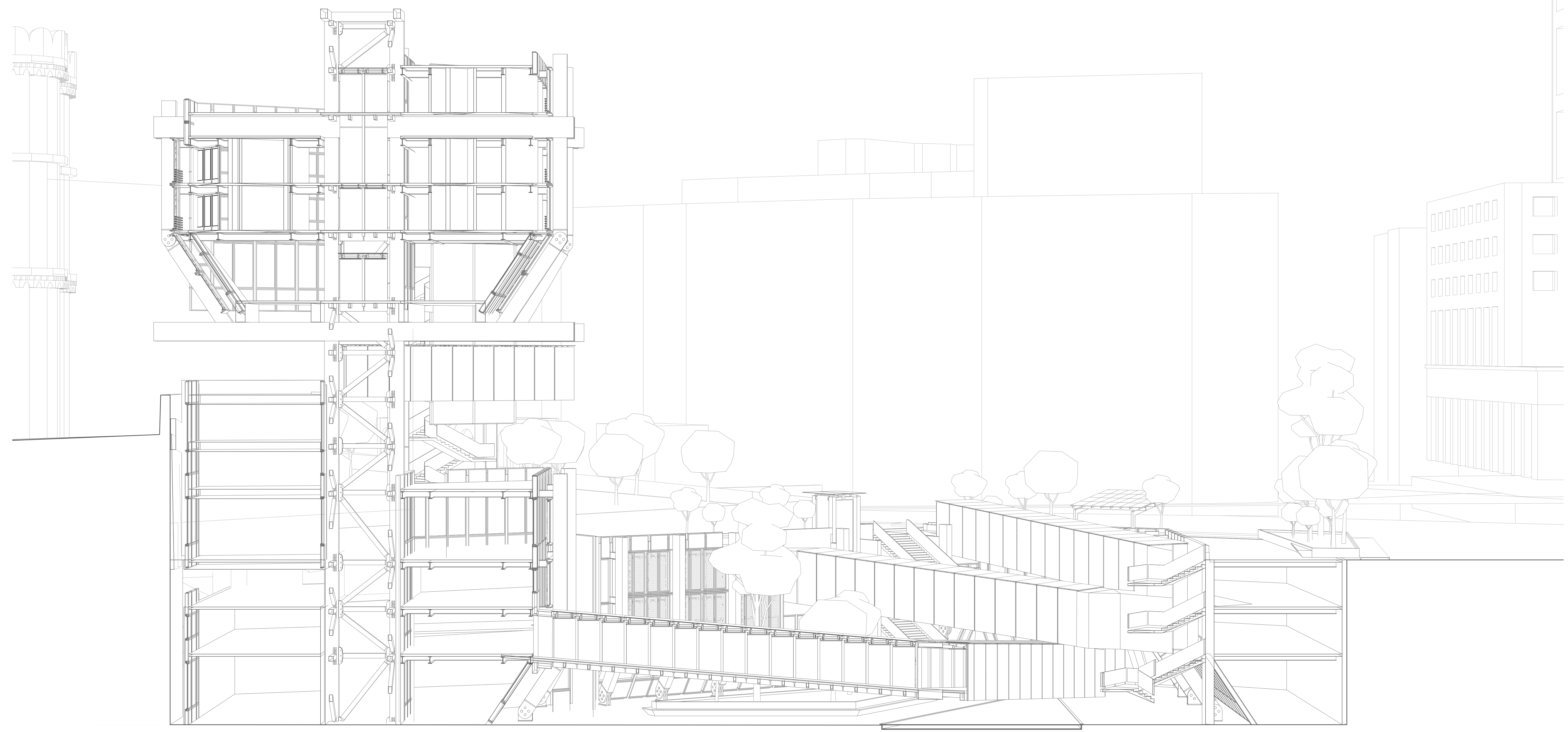
**SITE PLAN**  
**Piazza Dante and Porta Soprana**



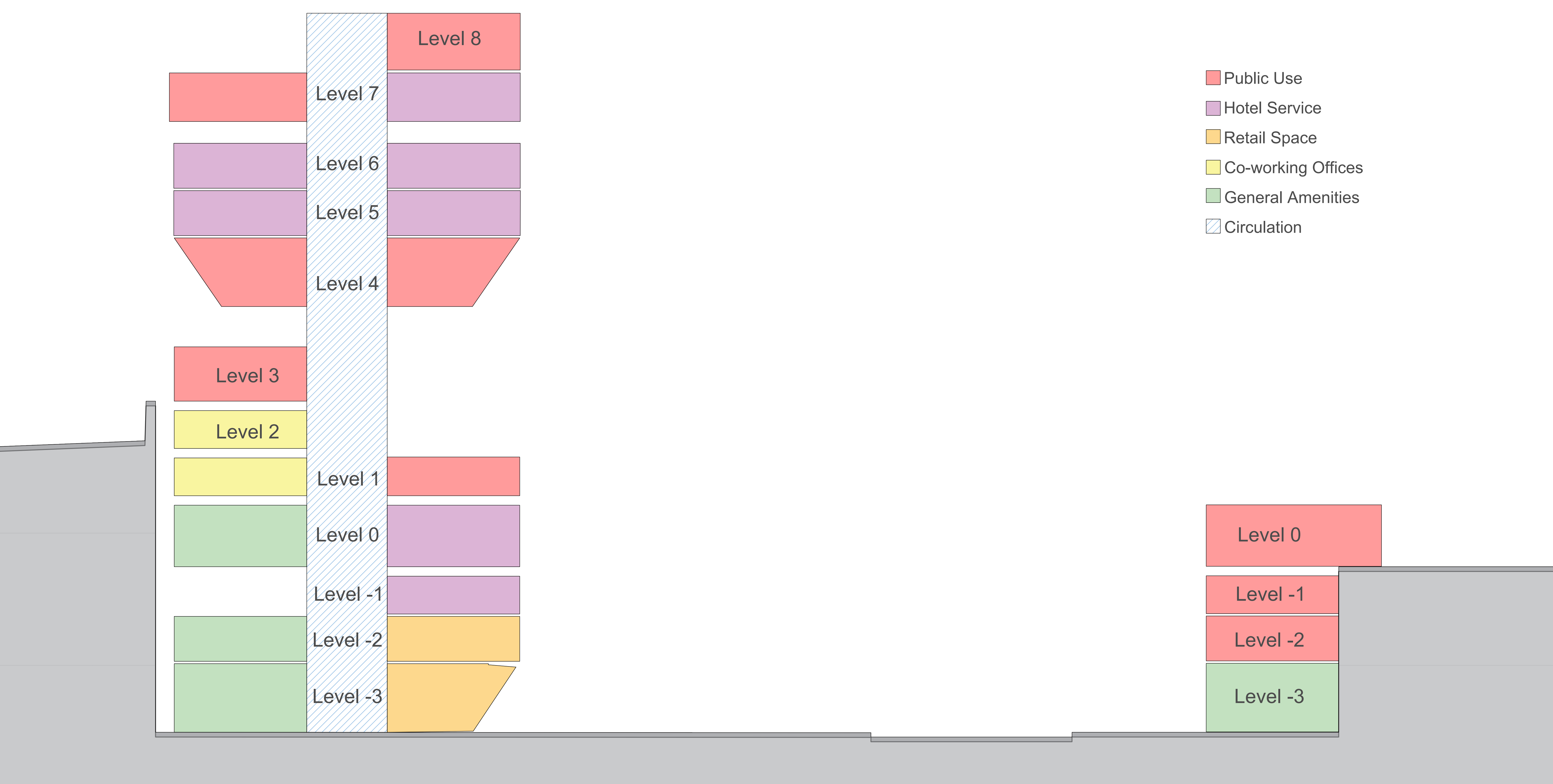
**SECTION PERSPECTIVE**  
**East Facing Facade**



**SECTION PERSPECTIVE**  
**Facing North**



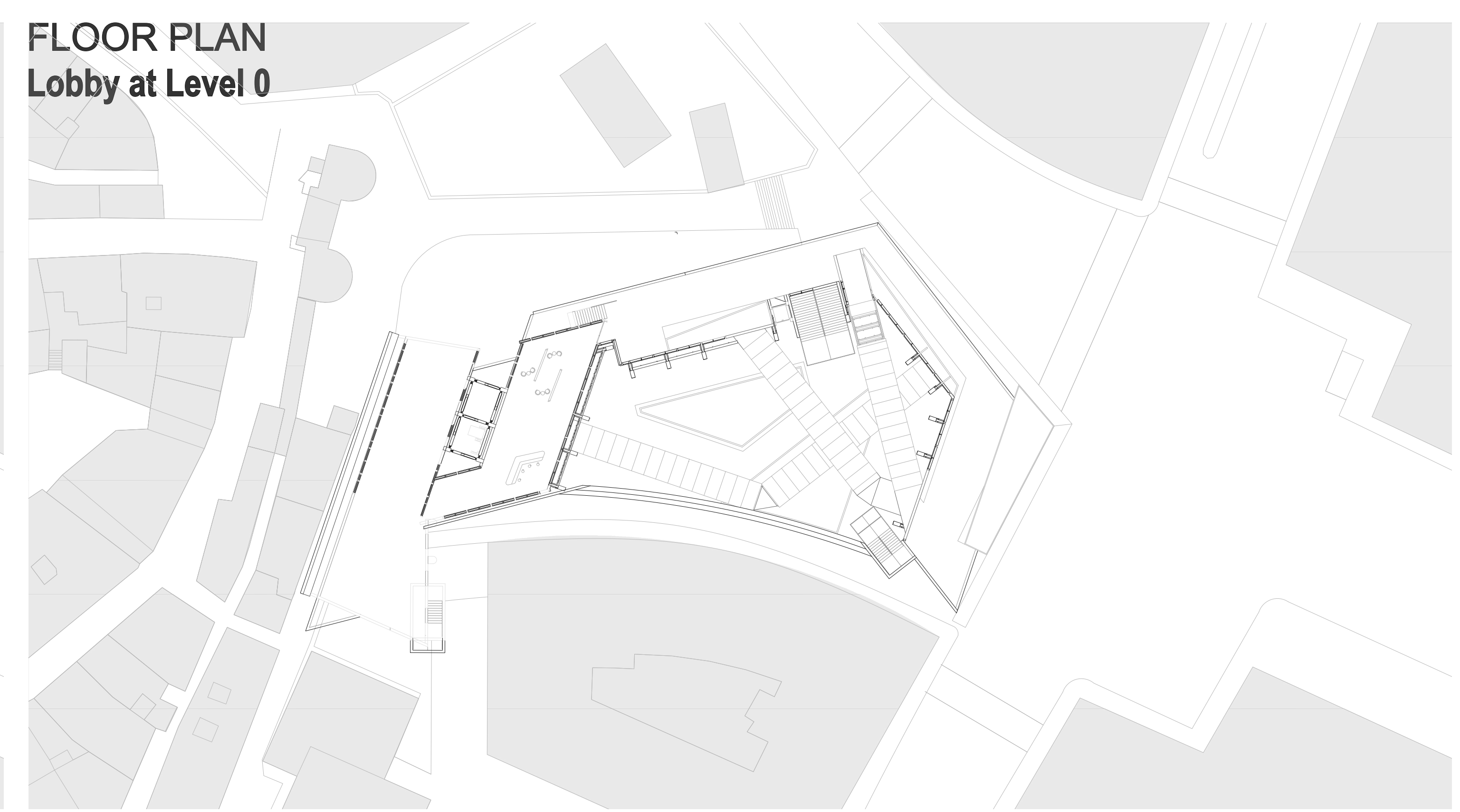
# SECTION Program Diagram



**FLOOR PLAN**  
**Major Piazza at Level -3**



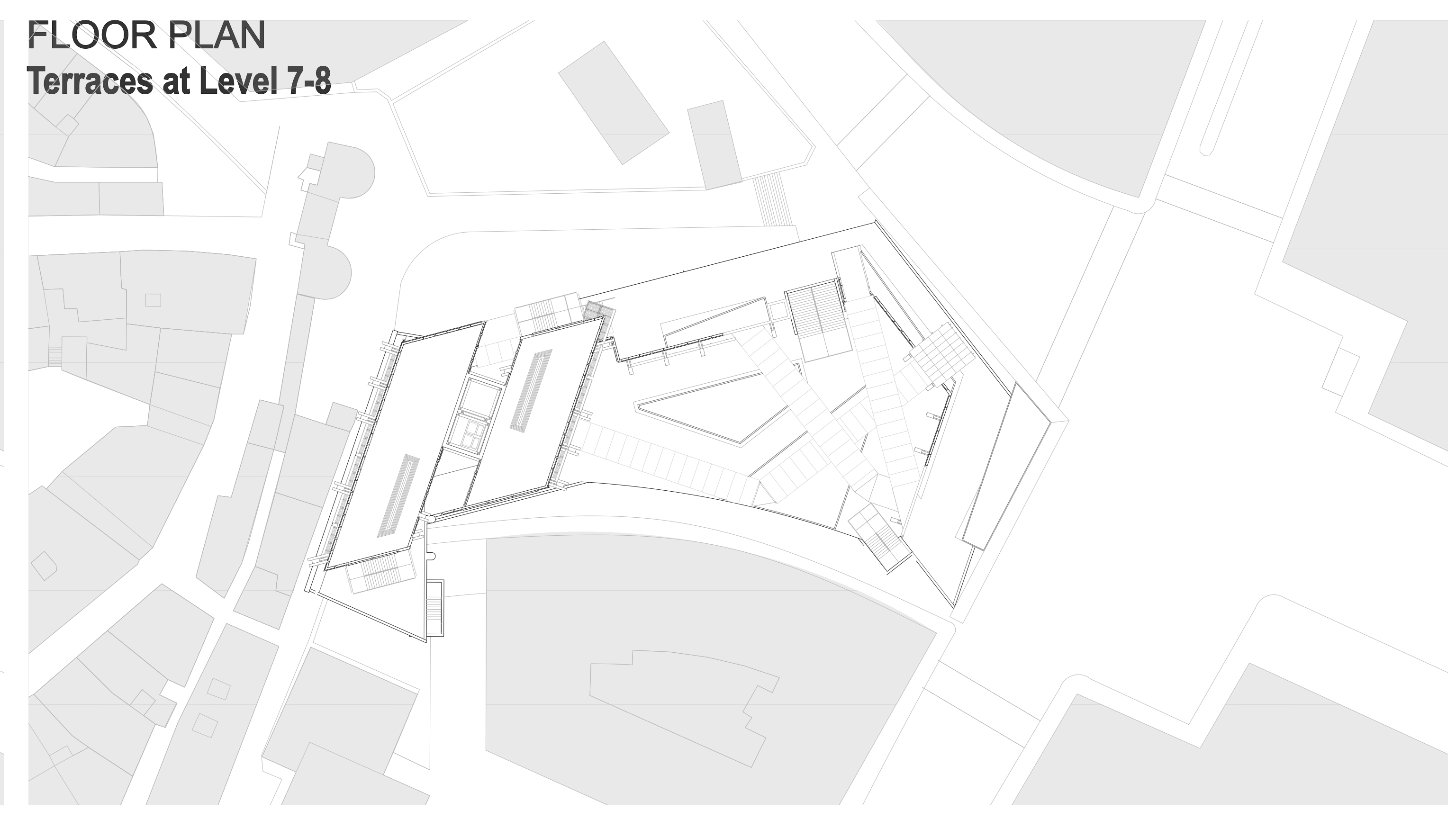
**FLOOR PLAN**  
**Lobby at Level 0**



**FLOOR PLAN**  
**Minor Piazza at Level 3**

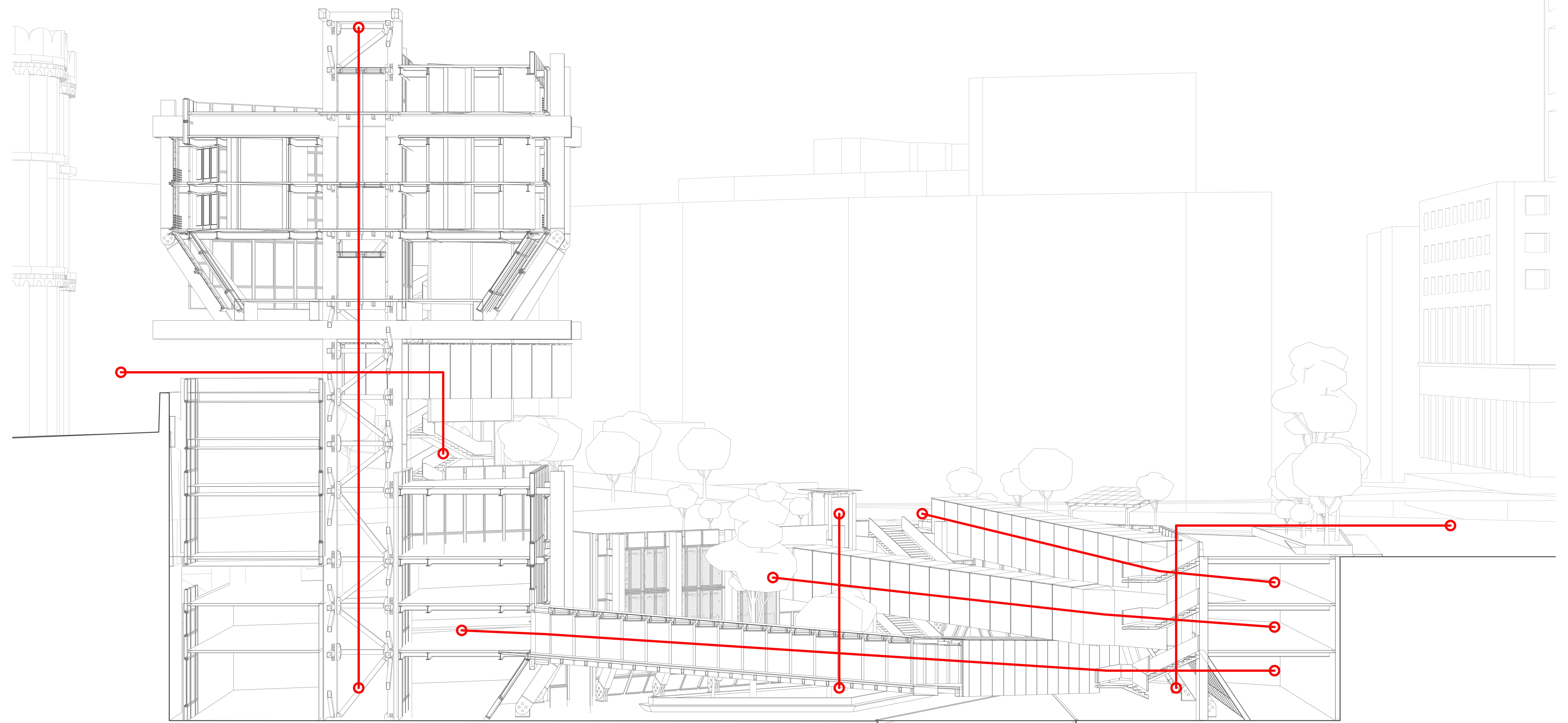


**FLOOR PLAN**  
**Terraces at Level 7-8**



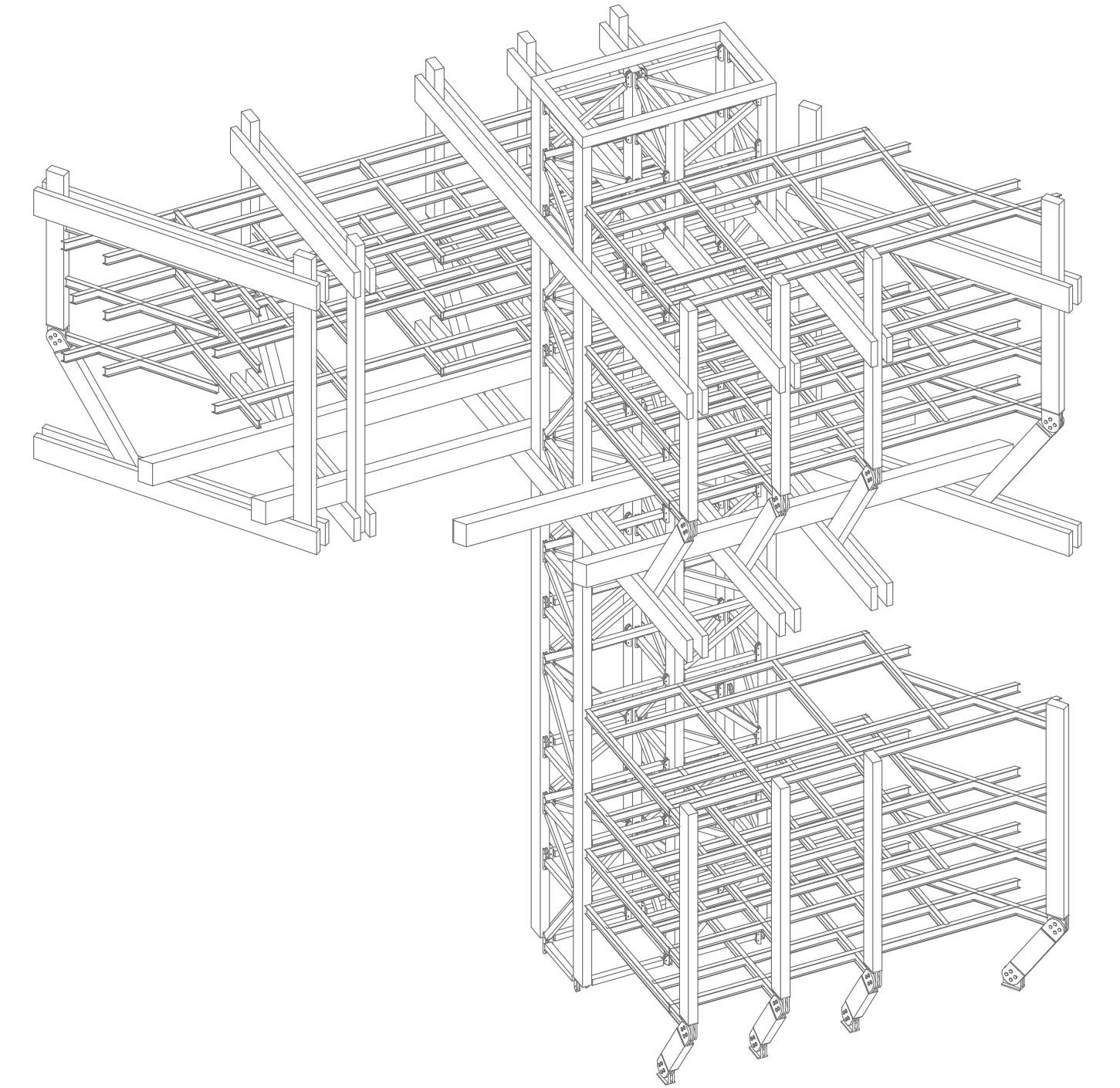
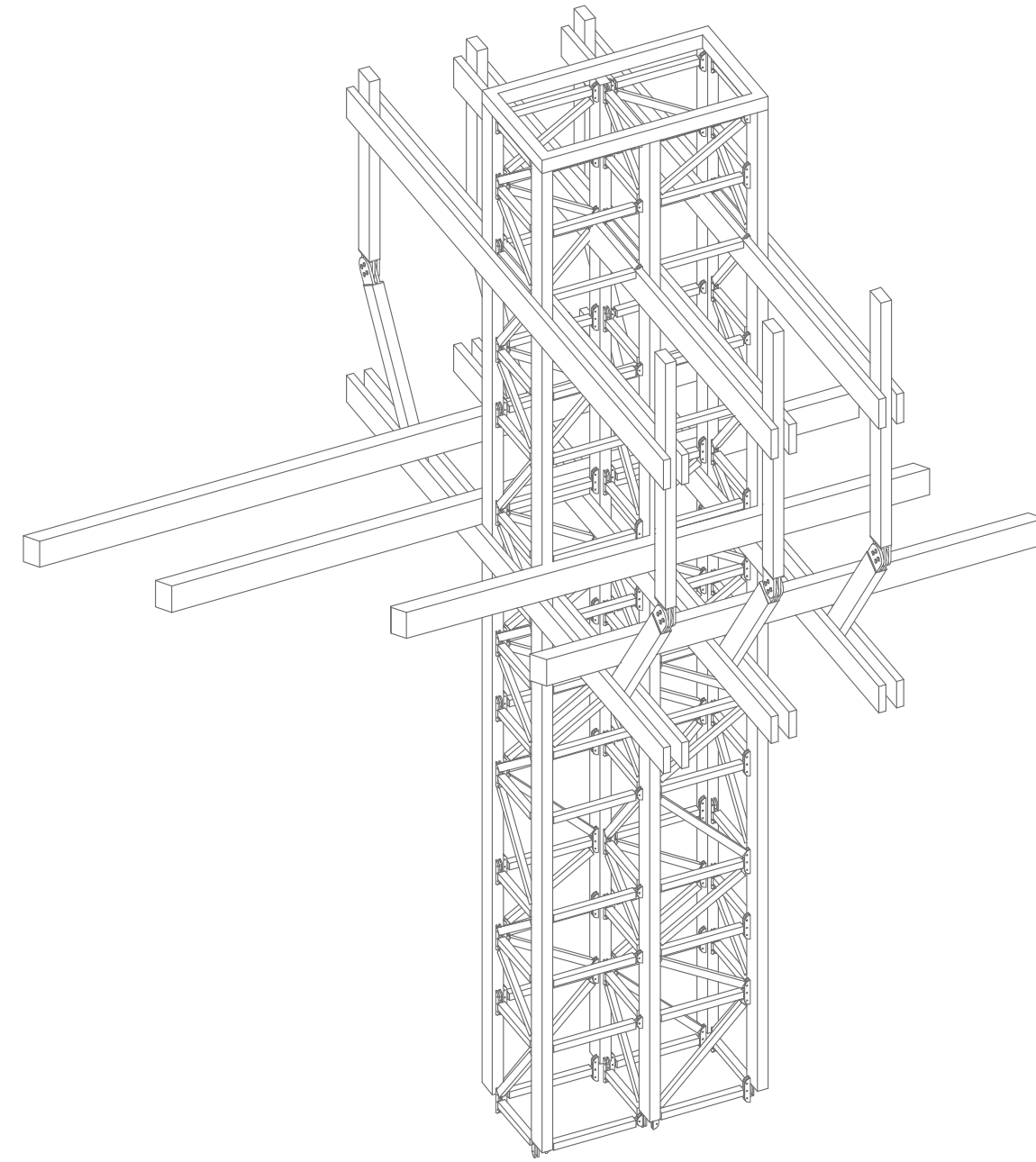
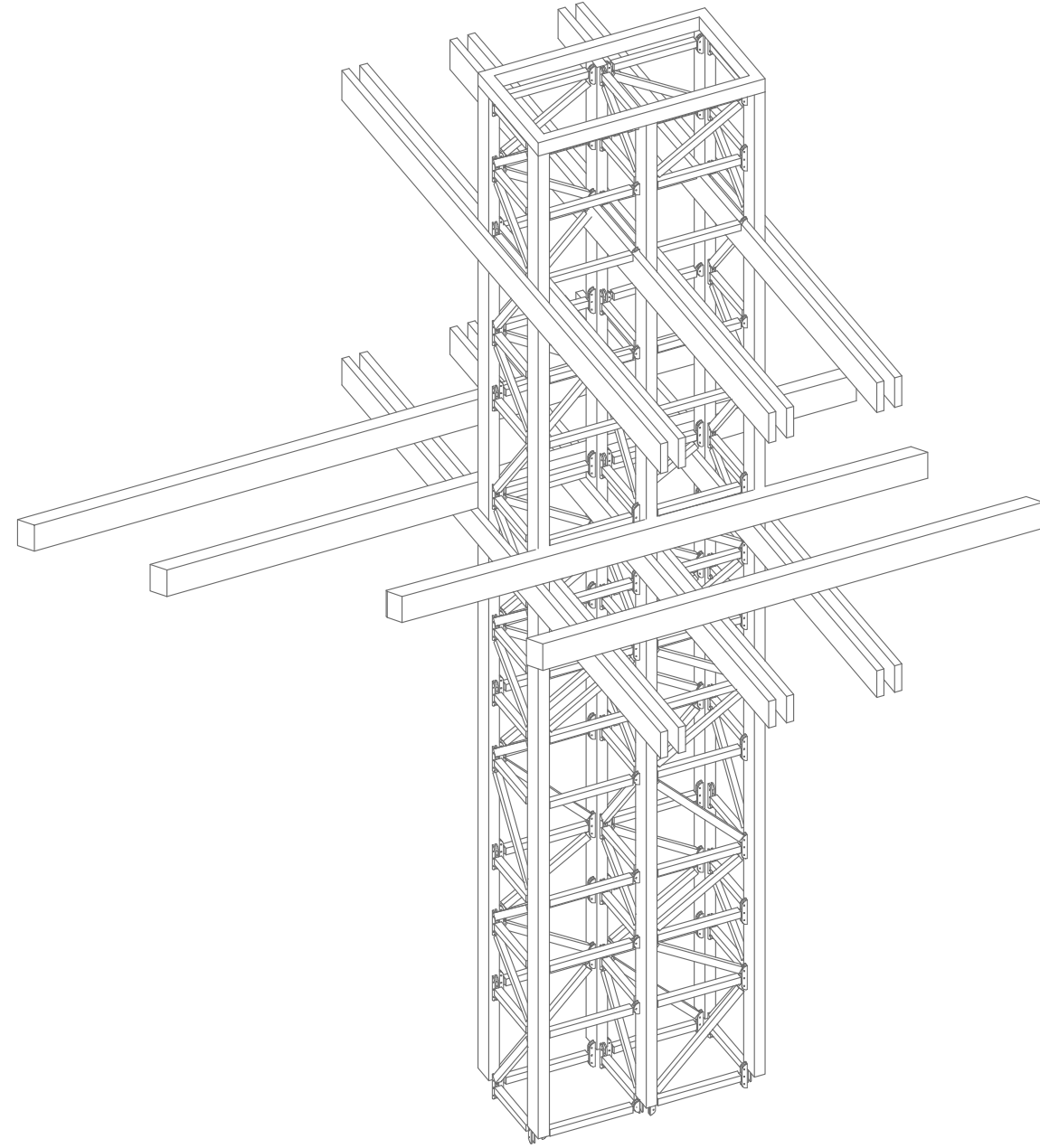
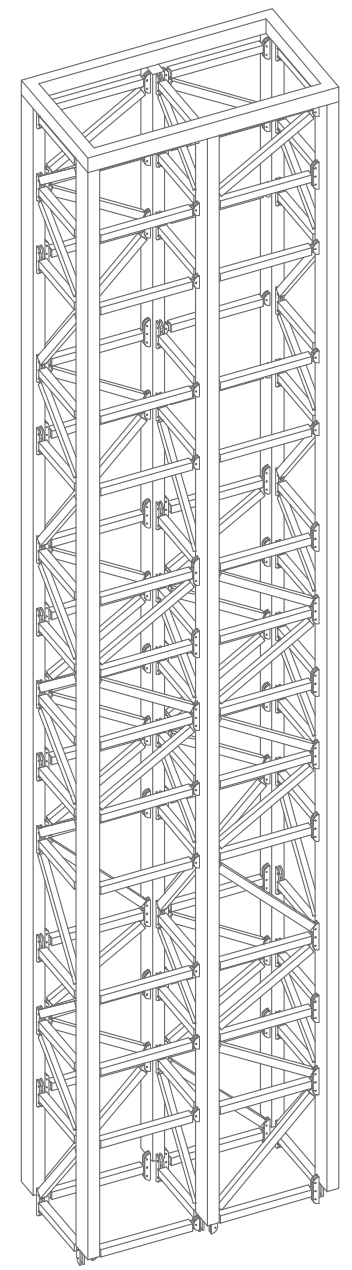
# SECTION

## Vertical Circulation Diagram

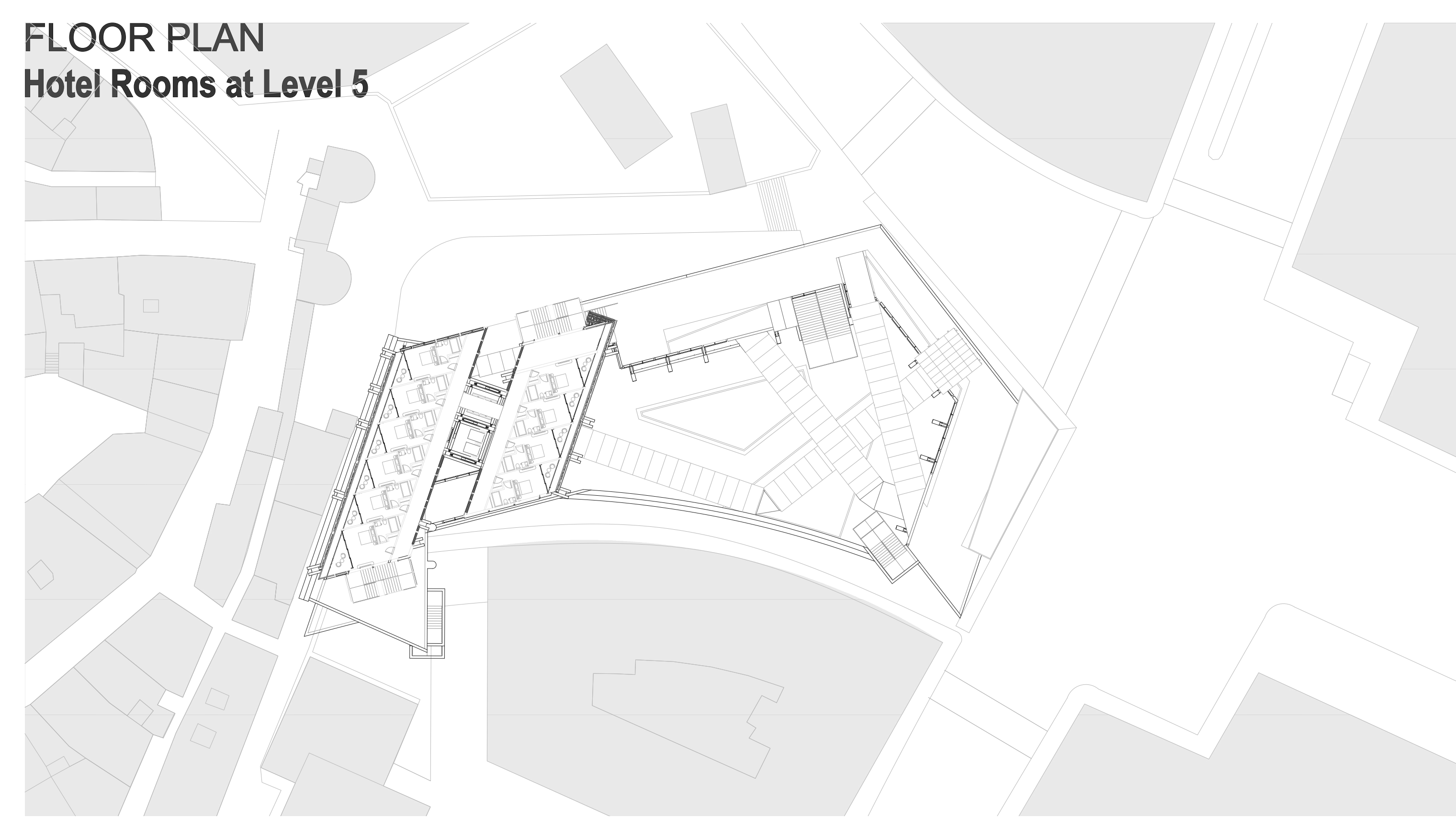




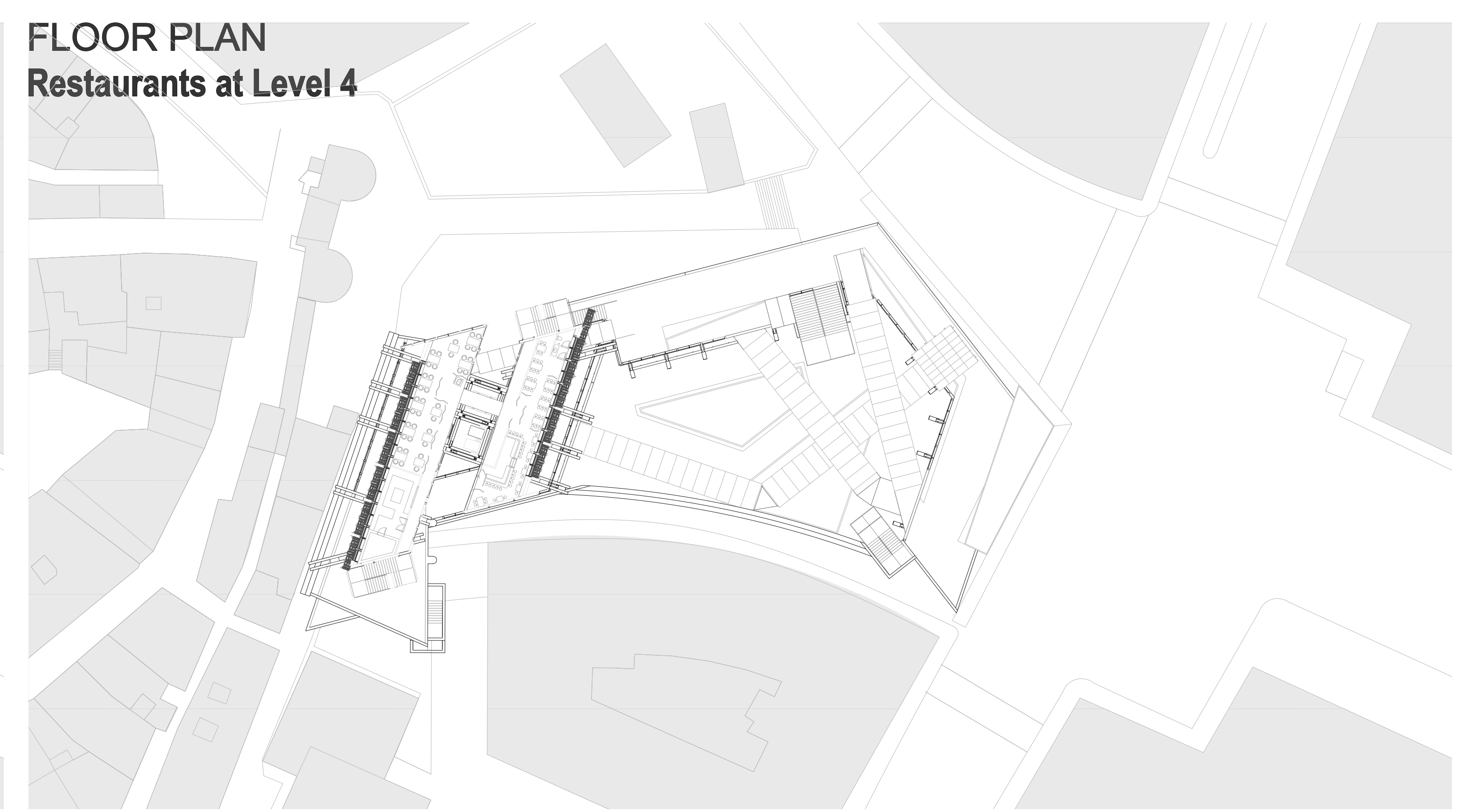
# ISONOMETRIC Structure Framework



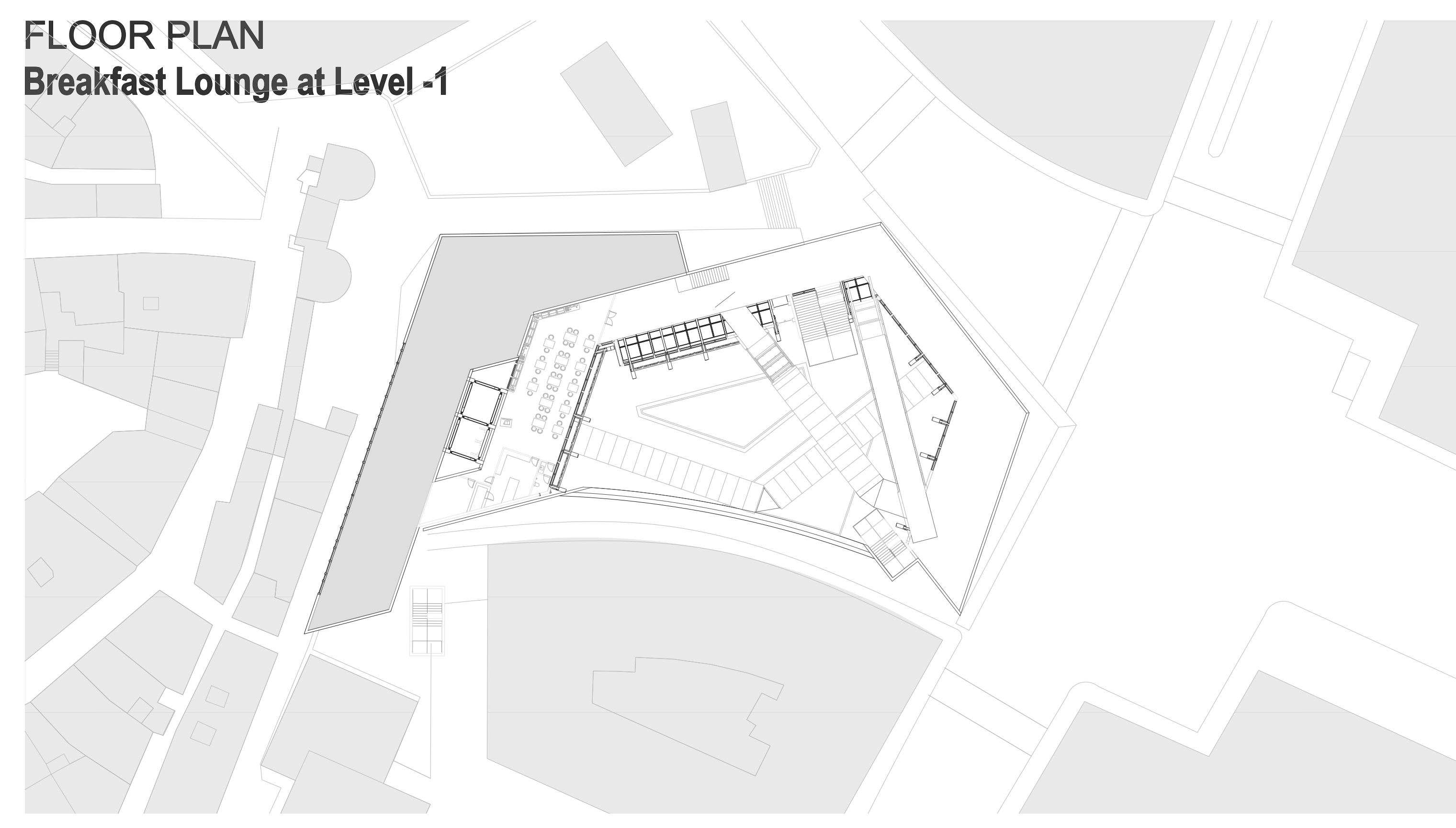
**FLOOR PLAN**  
**Hotel Rooms at Level 5**



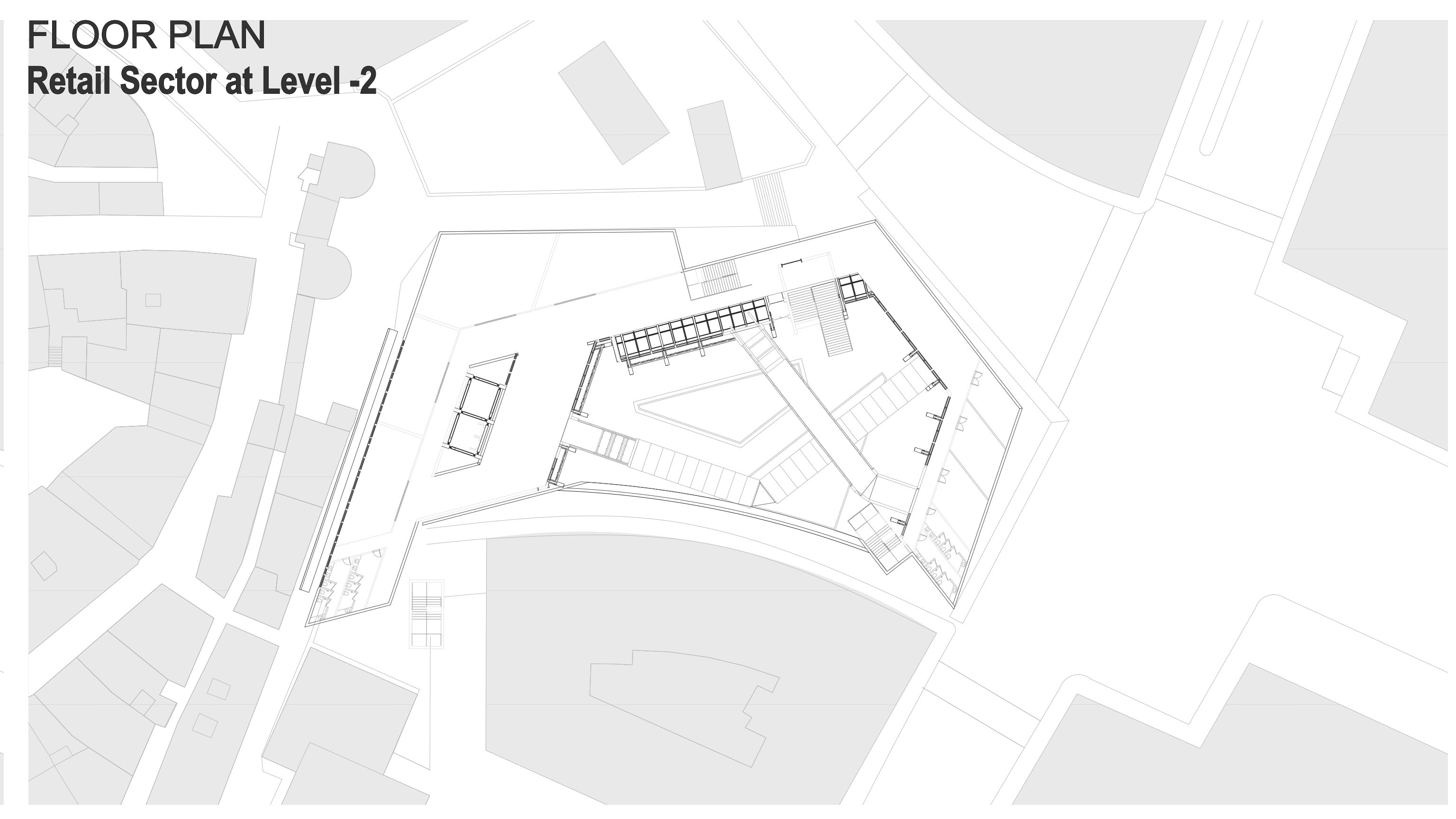
**FLOOR PLAN**  
**Restaurants at Level 4**



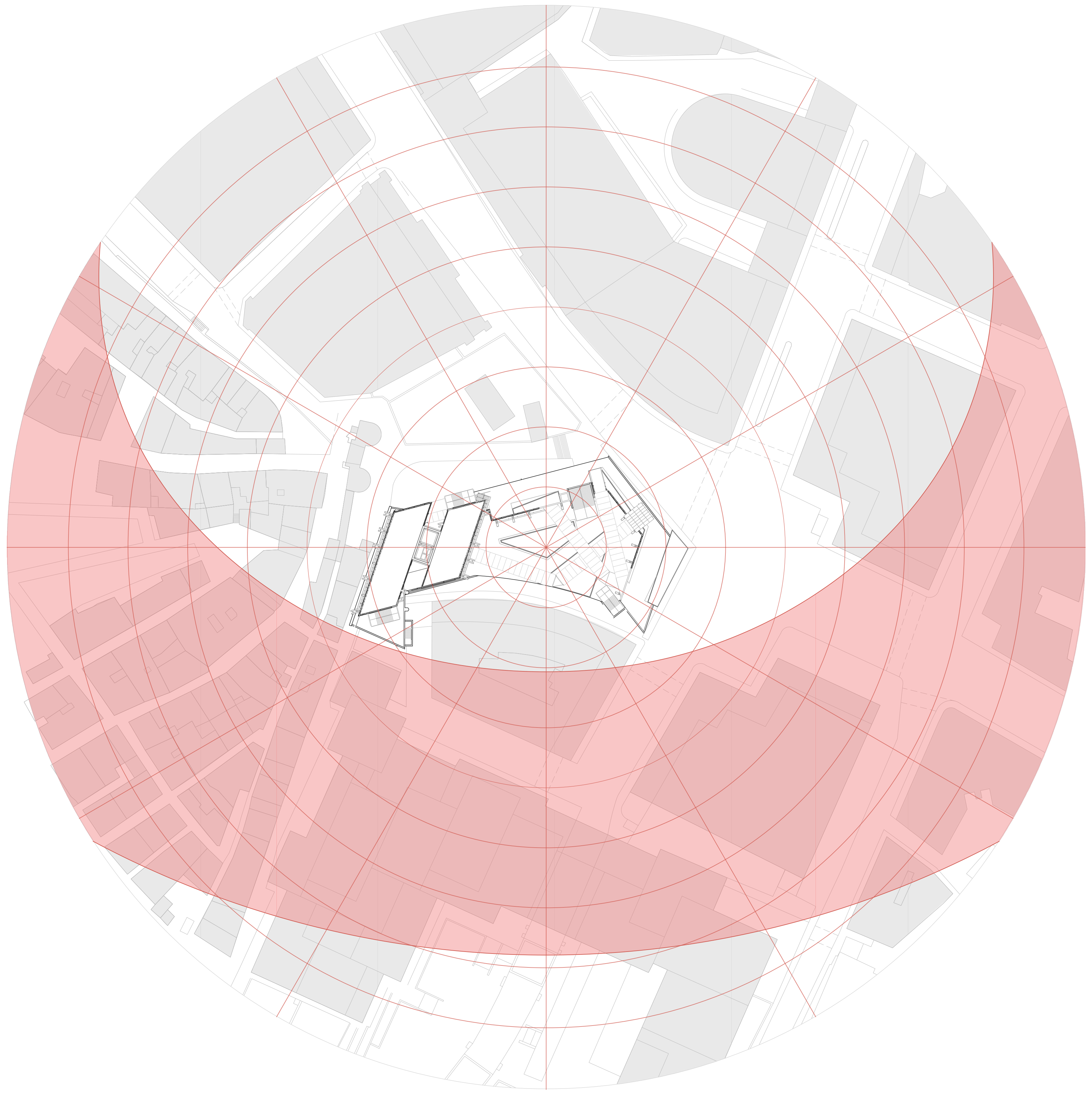
**FLOOR PLAN**  
**Breakfast Lounge at Level -1**



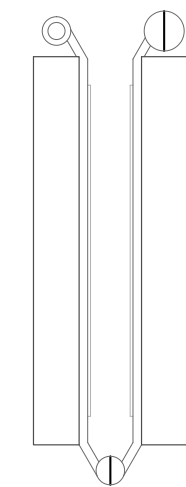
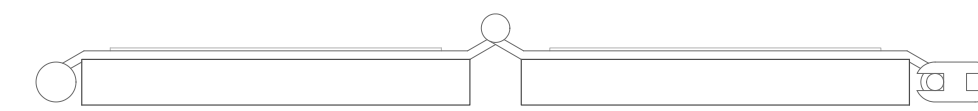
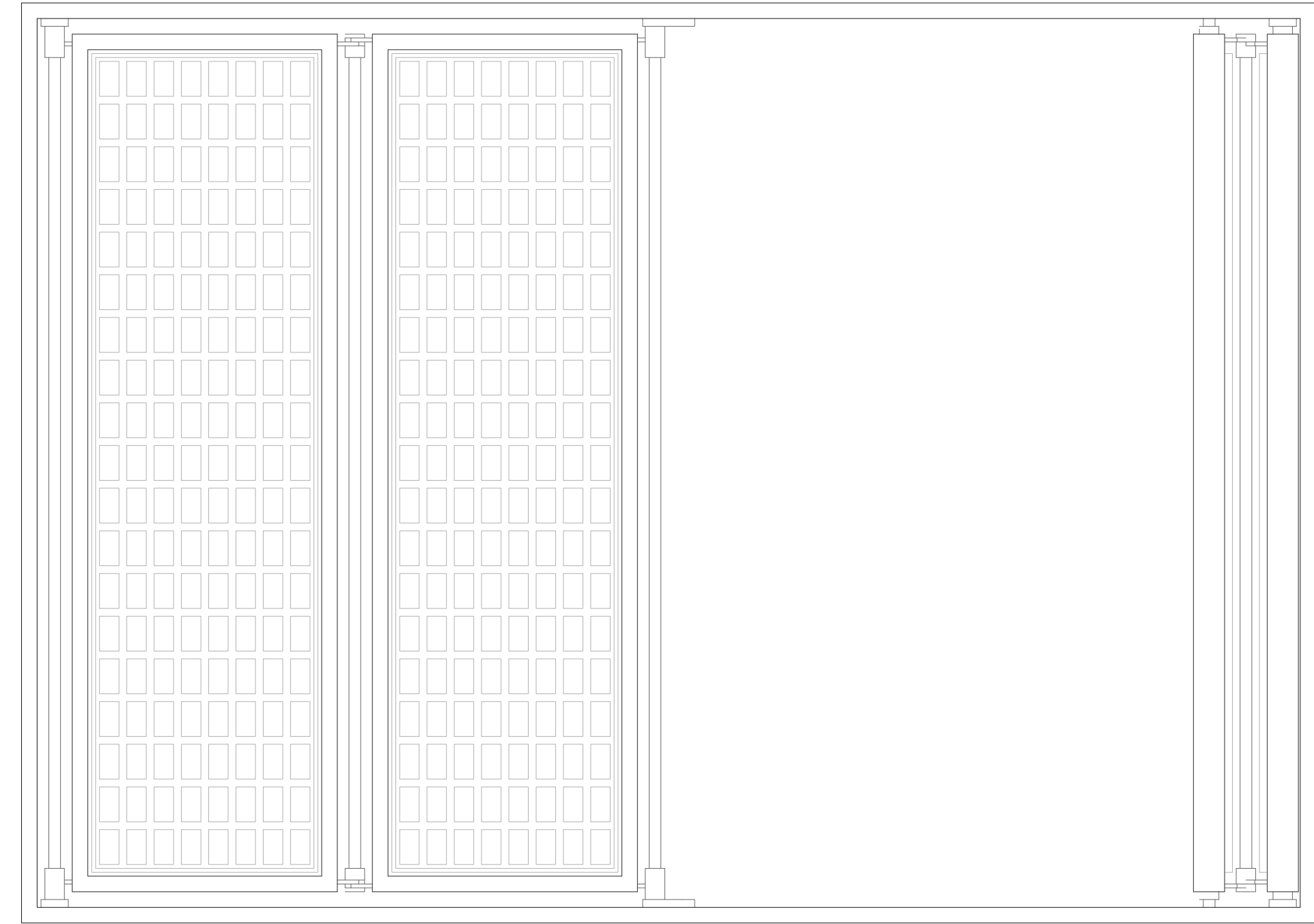
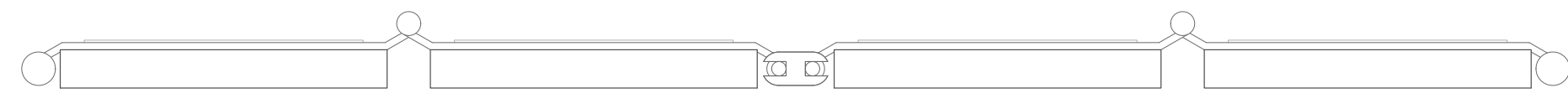
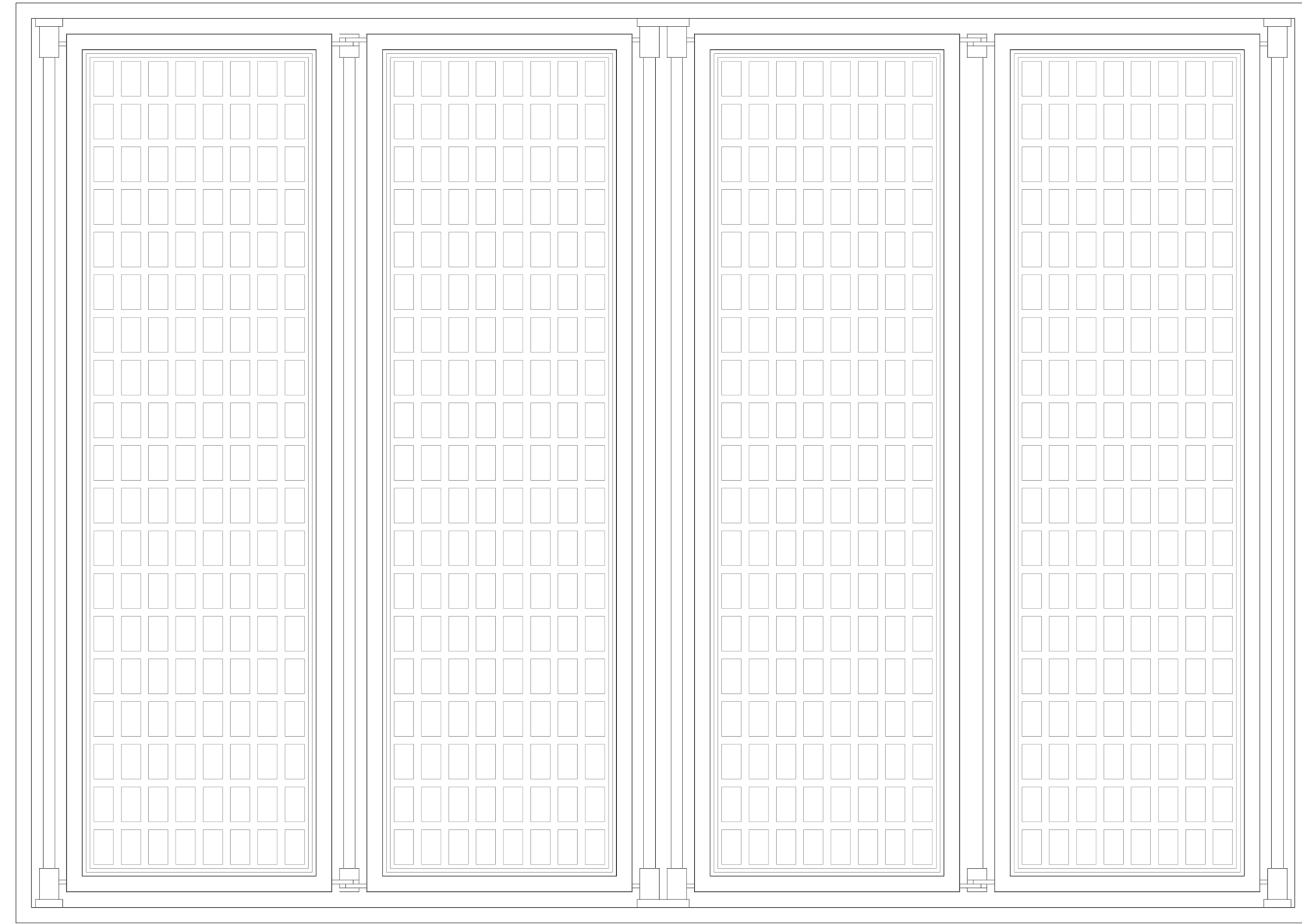
**FLOOR PLAN**  
**Retail Sector at Level -2**



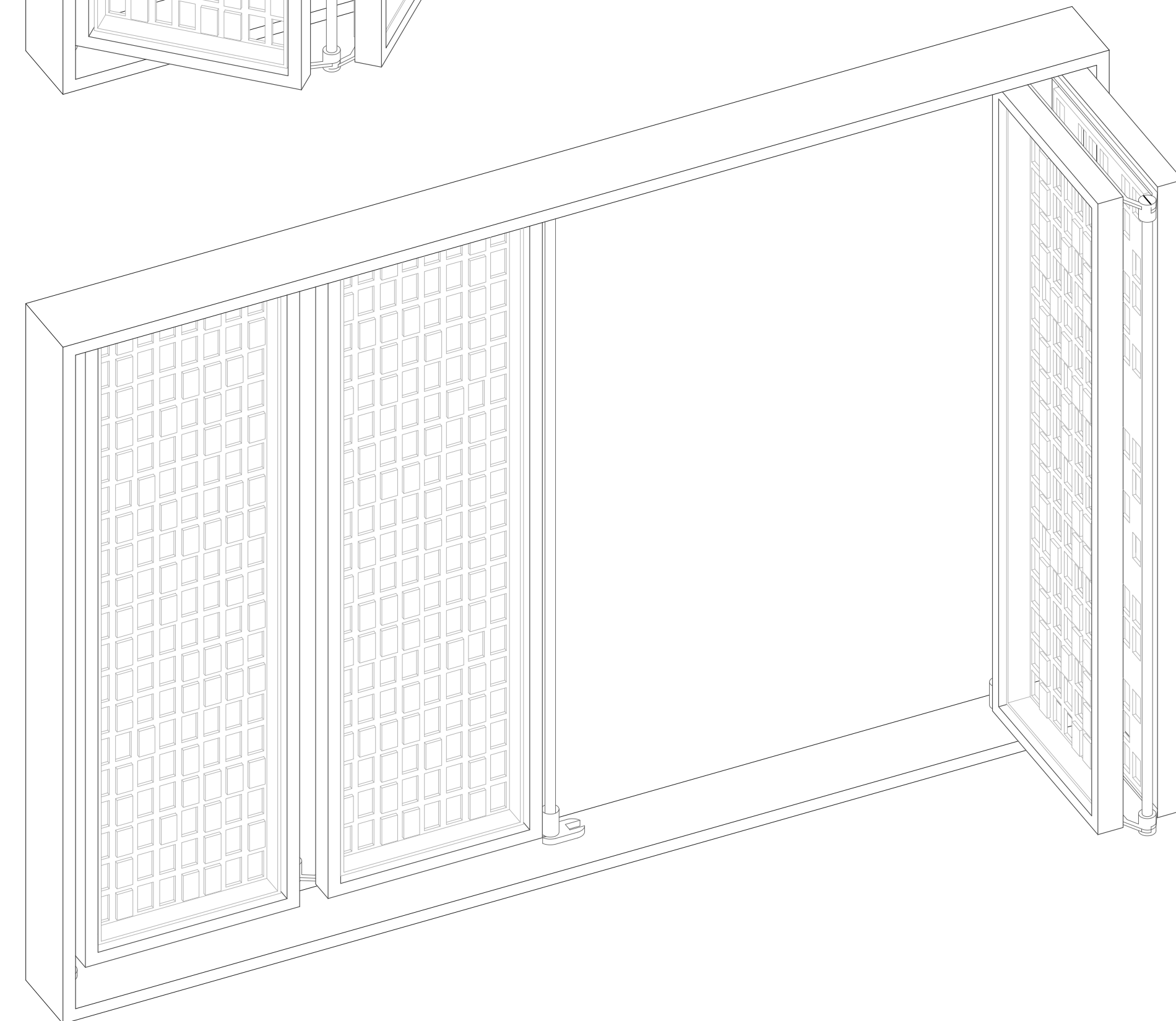
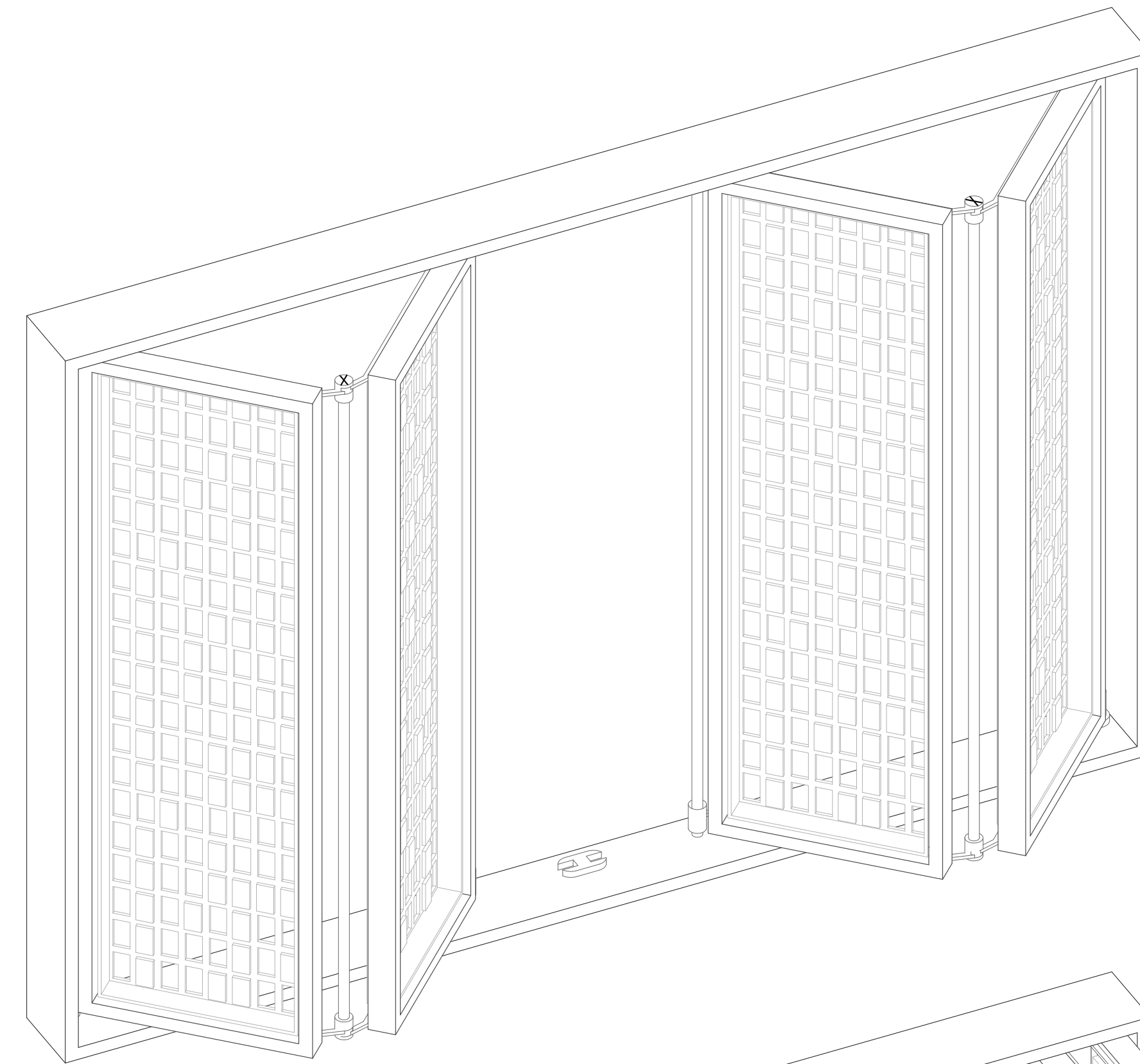
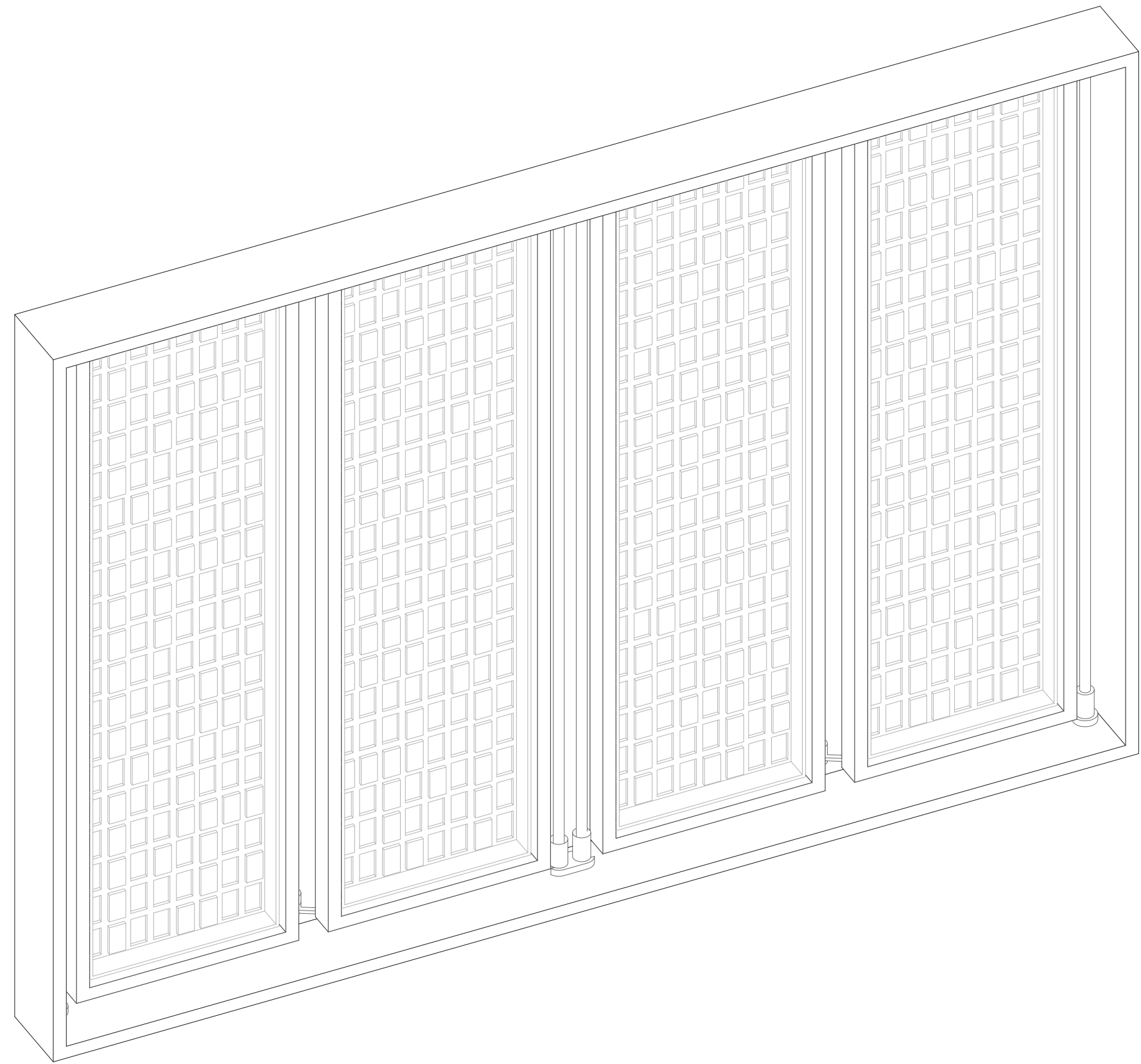
ENVIRONMENTAL STUDY  
Sun Diagram



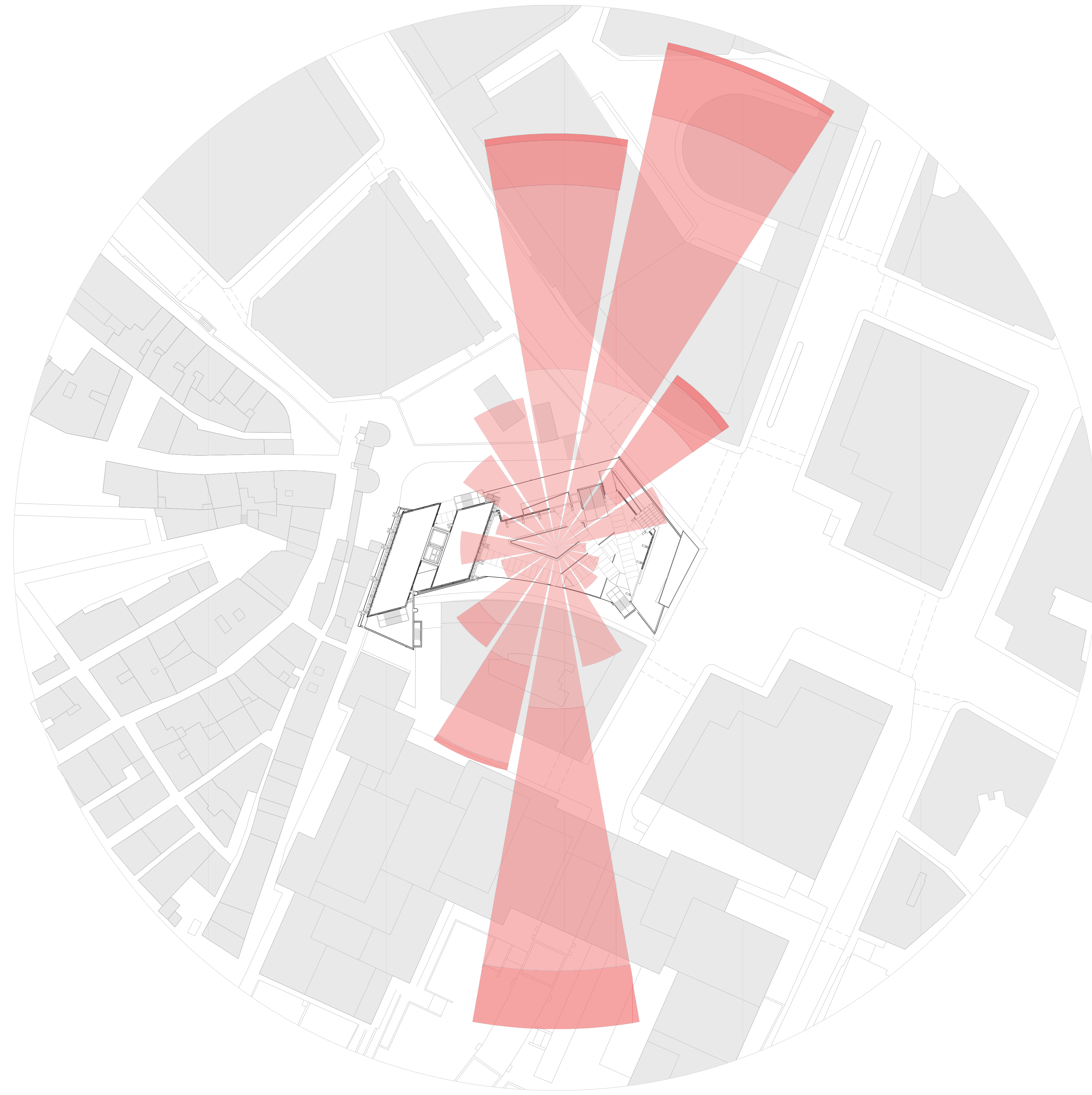
**ELEVATION and PLAN DETAIL**  
**Operable Shading Louvres**



**ISONOMETRIC DETAIL**  
**Operable Shading Louvres**



ENVIRONMENTAL STUDY  
Prevailing Winds



# ENVIRONMENTAL STUDY

## Site Topography Current and Proposal

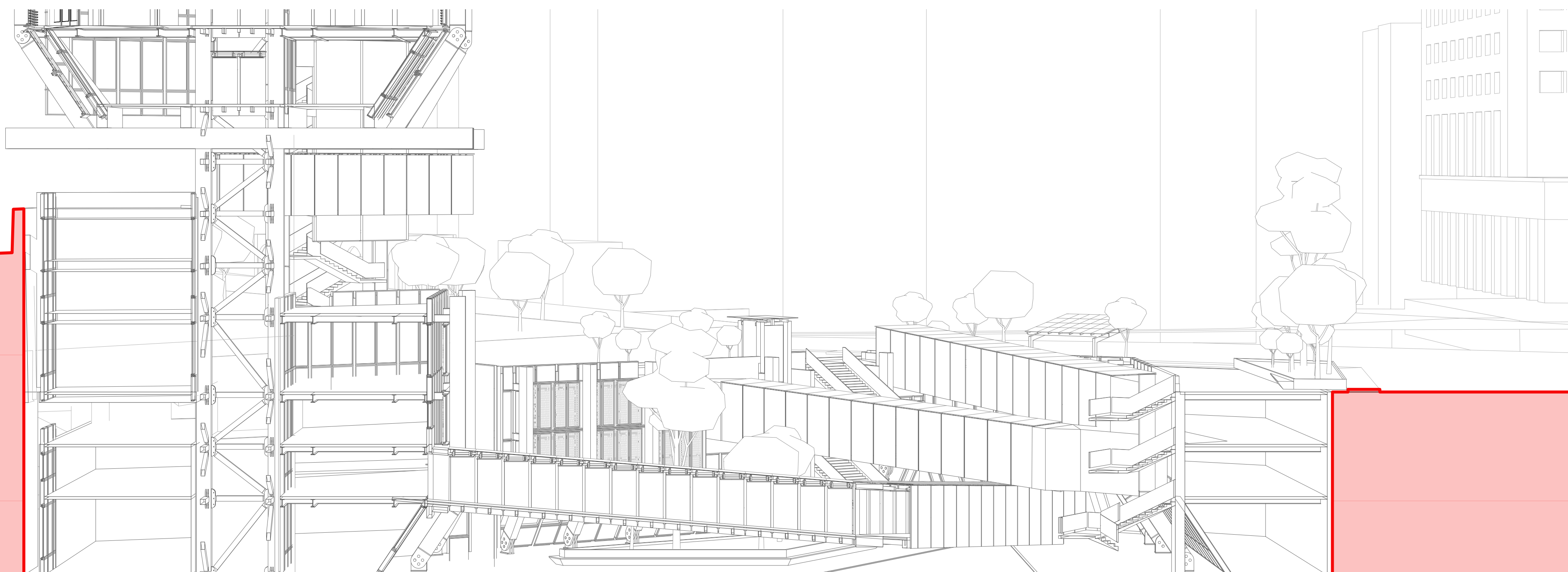
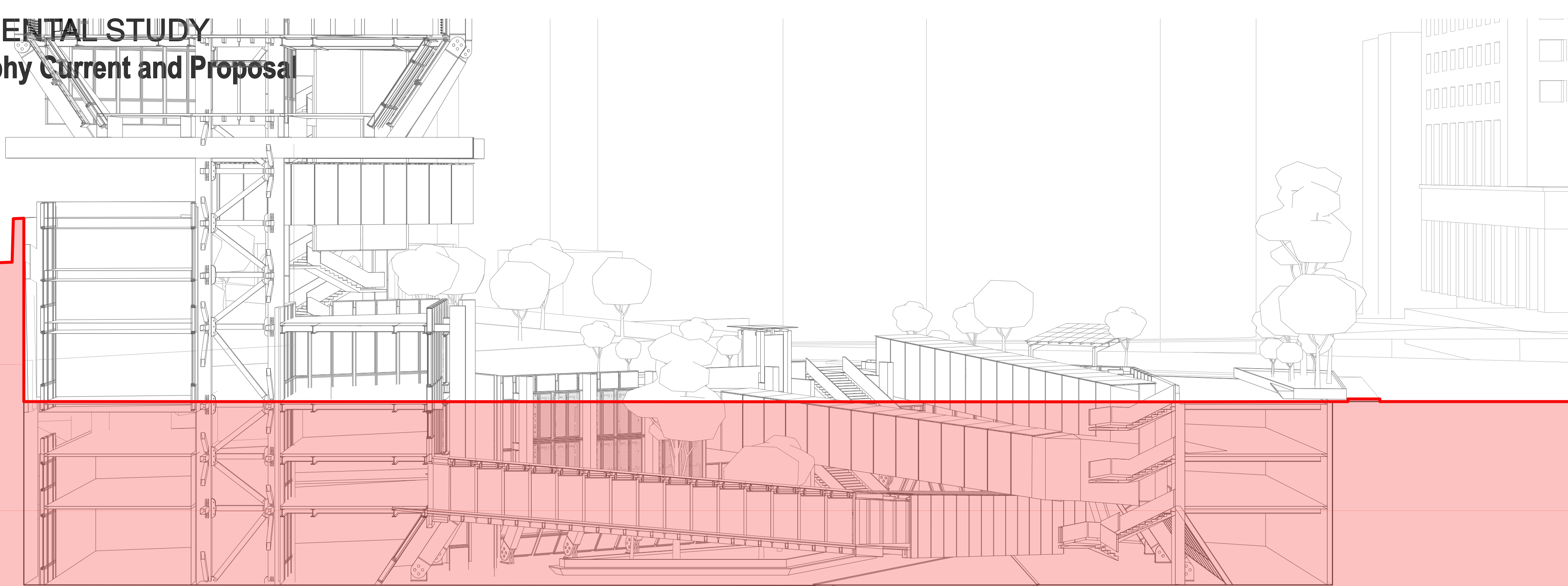
# ENVIRONMENTAL STUDY

## Average Precipitation and Water Usage Reduced Wind Impact on Site Topography

*Genoa is typically warm and temperate, with significant rainfall every year. Even the driest months in the city come with several rainy days. On average, Genoa experiences **1050mm to 1300mm of rain every year**. The rainiest months are in fall, from September to November.*

*For every 1mm of rain that falls on the site, 1L of water can be collected per square meter. For an average of 6mm per day, the site's 2000 sq m can result in **12000L of collected rain water daily**. The typical hotel consumes 1500L of water per occupied room for each day of stay. With 24 rooms, the Dante Soprano would consume 36000L of water at full capacity.*

*With the additional water supply collected from rainfall, the Dante Soprano can **reduce its municipal water consumption by 30%**. The site experiences minimal winds due to the surrounding buildings. The most severe winds come from the north and the south, both of which are largely blocked by the adjacent structures and the natural sloping topography. By carving even deeper, the piazza becomes a large depression, resulting in an expansive enclosed space. Rainfall can then be funneled to a central point for treatment and storage.*



**SECTION PERSPECTIVE**  
**Water Collection and Evaporative Cooling**

