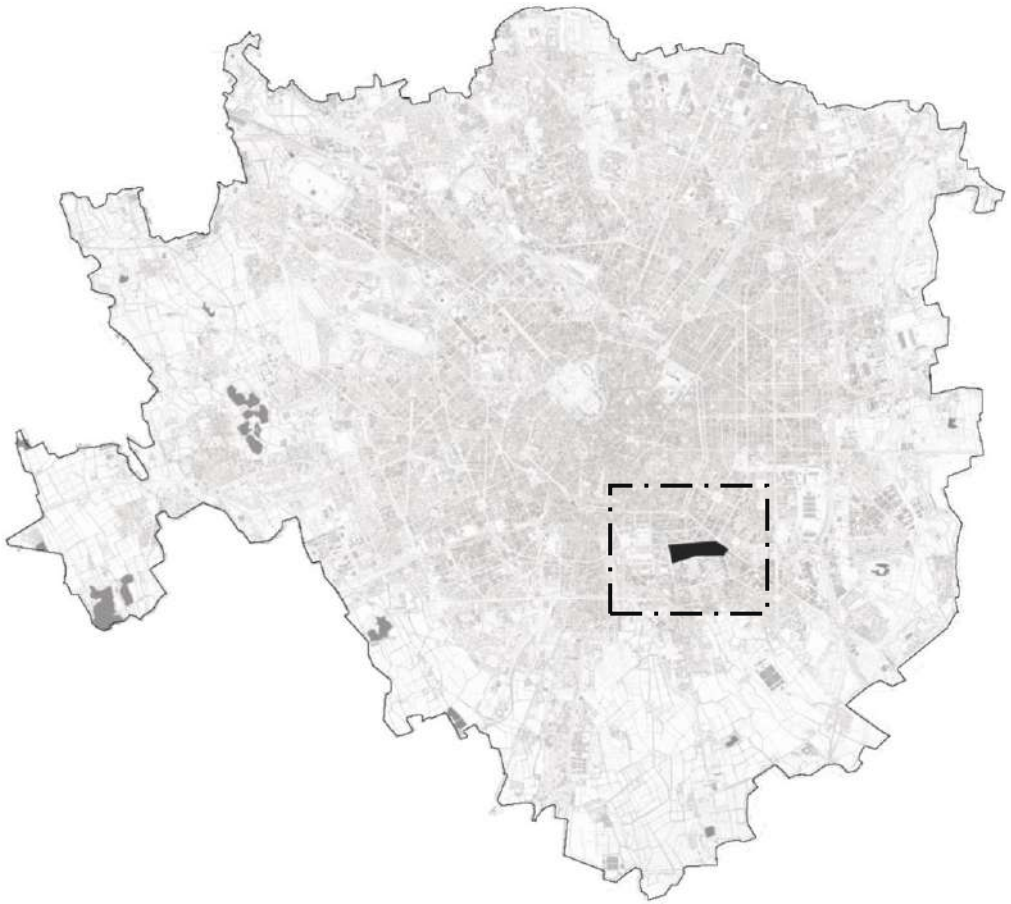
PORTA ROMANA RAILWAY YARD

KUI HUANG

SUPERVISOR : Professor. Antonella Contin TUTOR : Andrea Ardizzi , Federico Misto , Valentina Galiulo



Porta Romana is an important hub . Lying at the center of Milano , ecological and urban networks

construction of an architectural and urban resilient system, able to react at the fragile and critic contemporary conditions

PROCESS

AIM

Solve the conflict between urban development and urban decline

STRATEGIC

Strategic is permanent

Strategic is structural

Strategic is necessary

General plan (Reconnect Porta Romana and Milano to provide more development space for the city and cope with the current fragility by vacant land)

Goals (2020 eco-park, 2026 Olympic village, 2030 student housing)

Reinterpreting existing

2020 eco-park → innovative landscape

TACTICAL

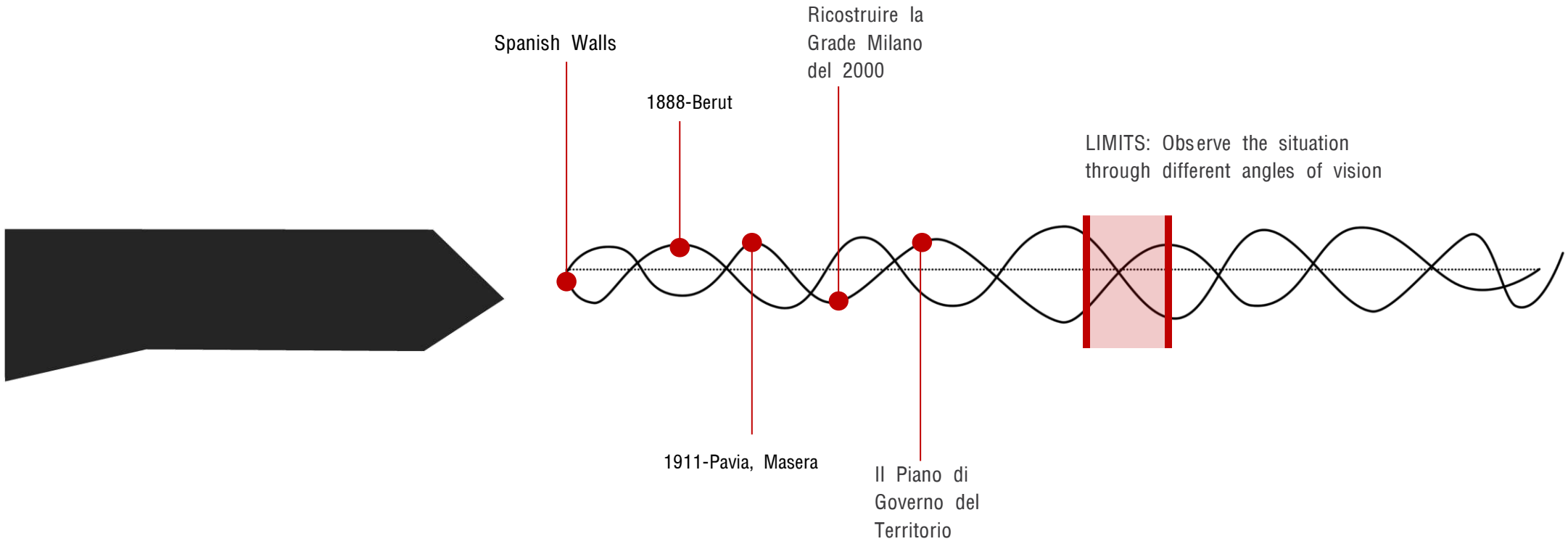
Tactical is temporary

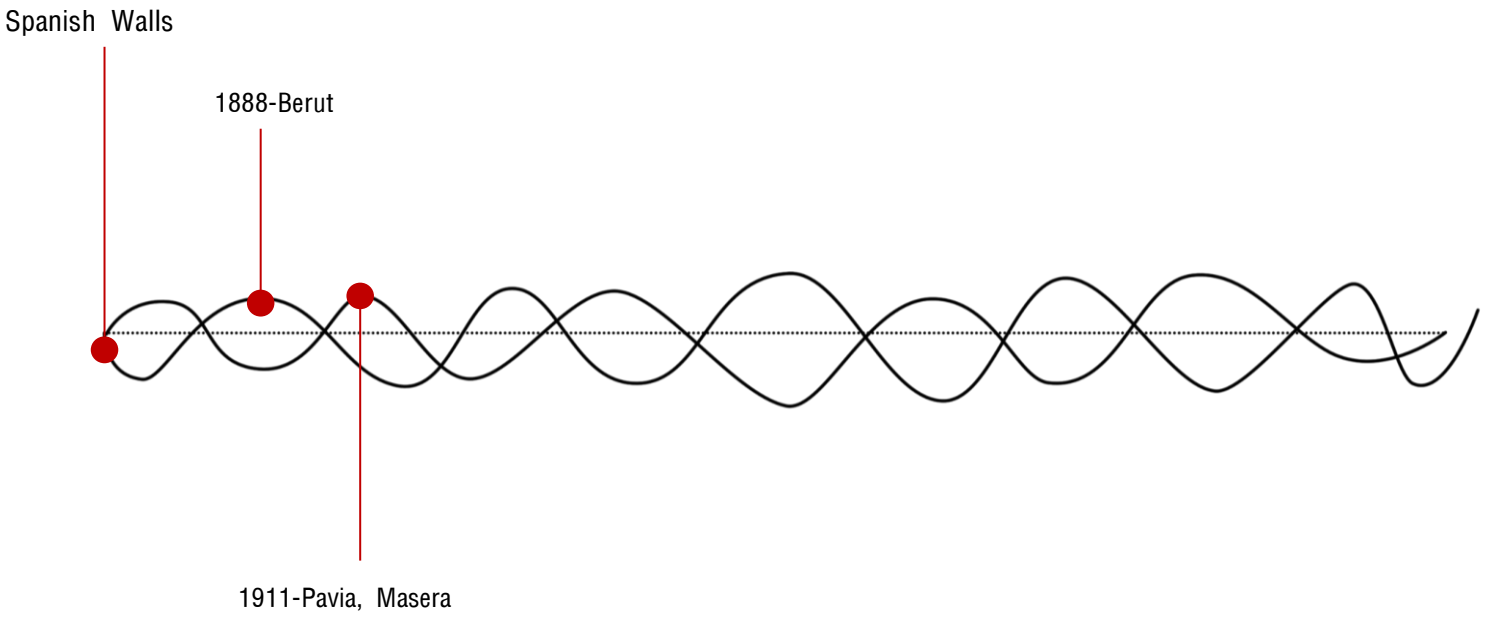
Tactical is figurative

Tactical is random

2026 Olympic village → temporary housing

2026 student housing → Transforming


Spanish Walls
1888-Berut
Ricostruire la Grade Milano del 2000
LIMITS: Observe the situation through different angles of vision
1911-Pavia, Masera
Il Piano di Governo del Territorio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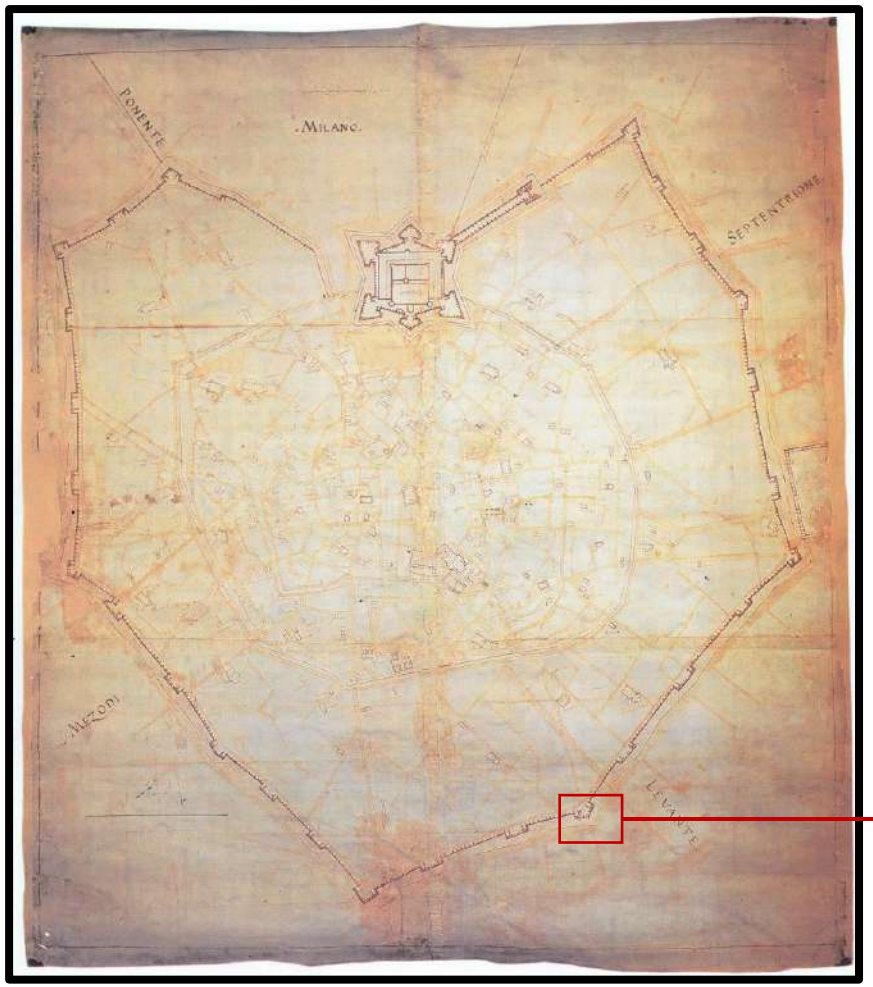
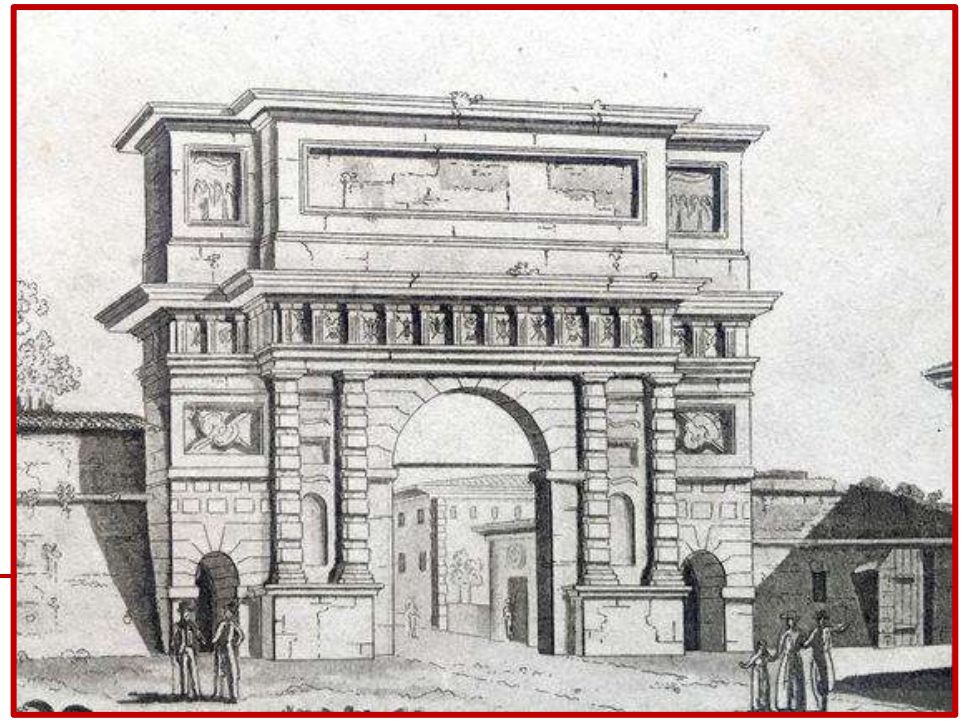


Milano plan , 1500



Porta Romana 1598

1888-Berut

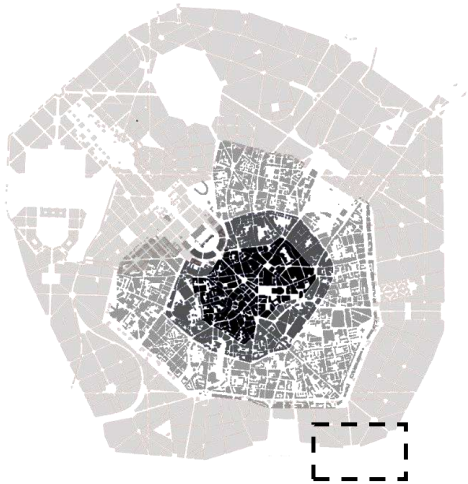
1911-Pavia, Masera

"Works at Porta Romana" Umberto Boccioni 1910

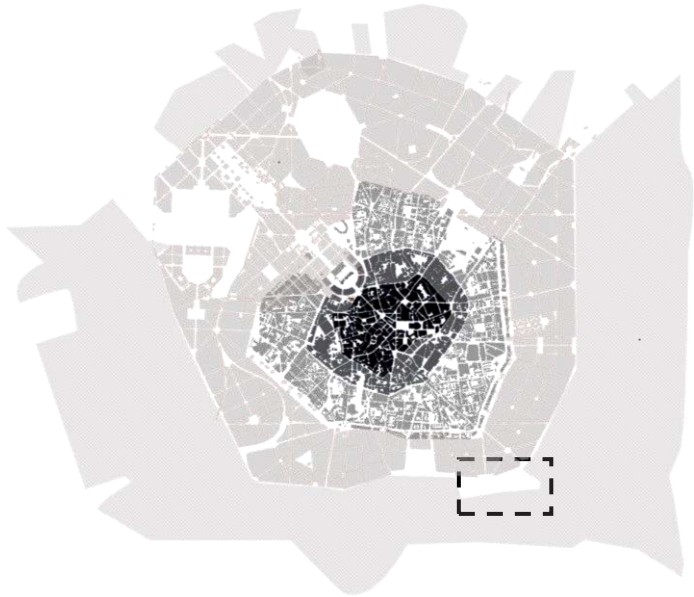
Roman Walls

Medieval Walls

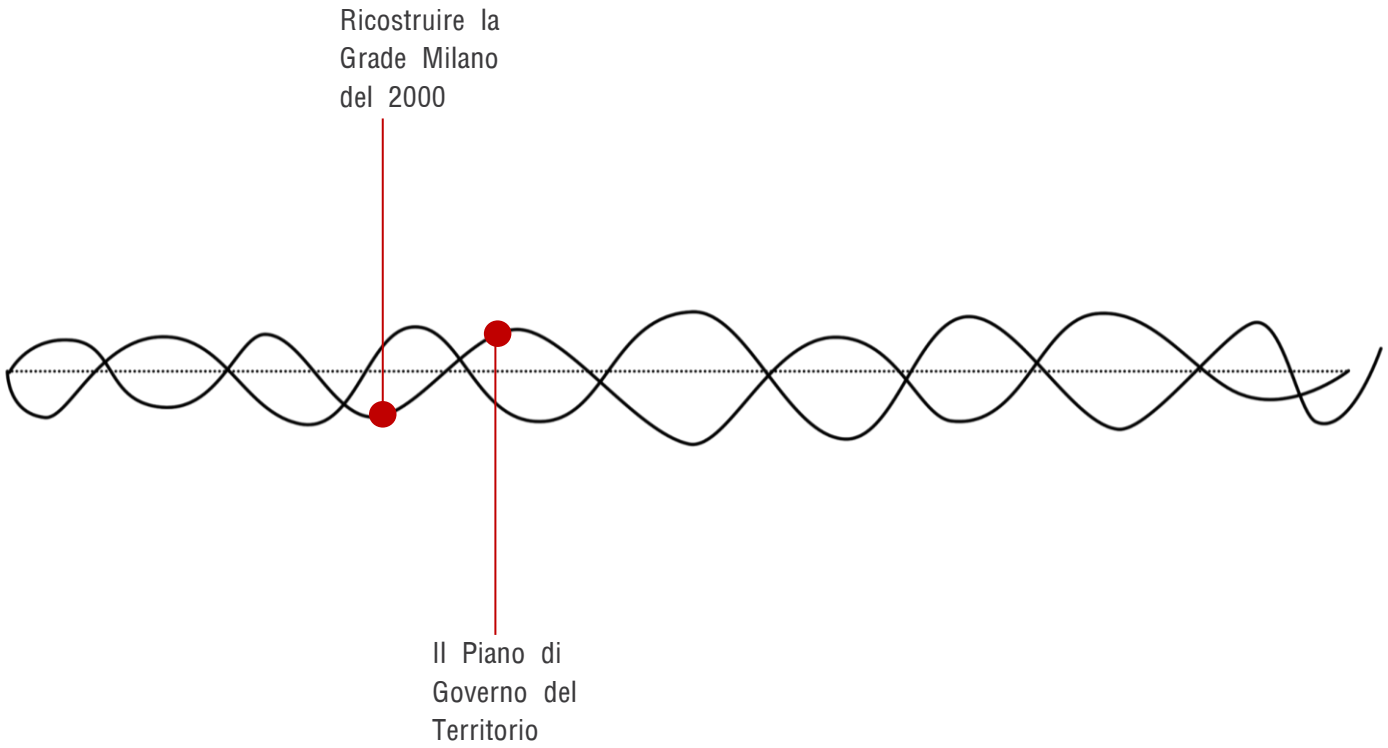
Spanish Walls

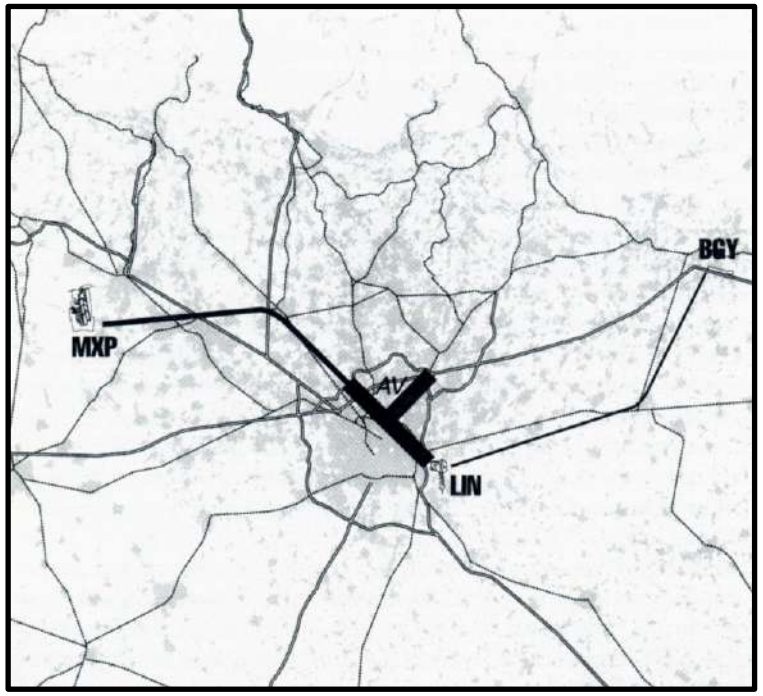


II Piano Beruto

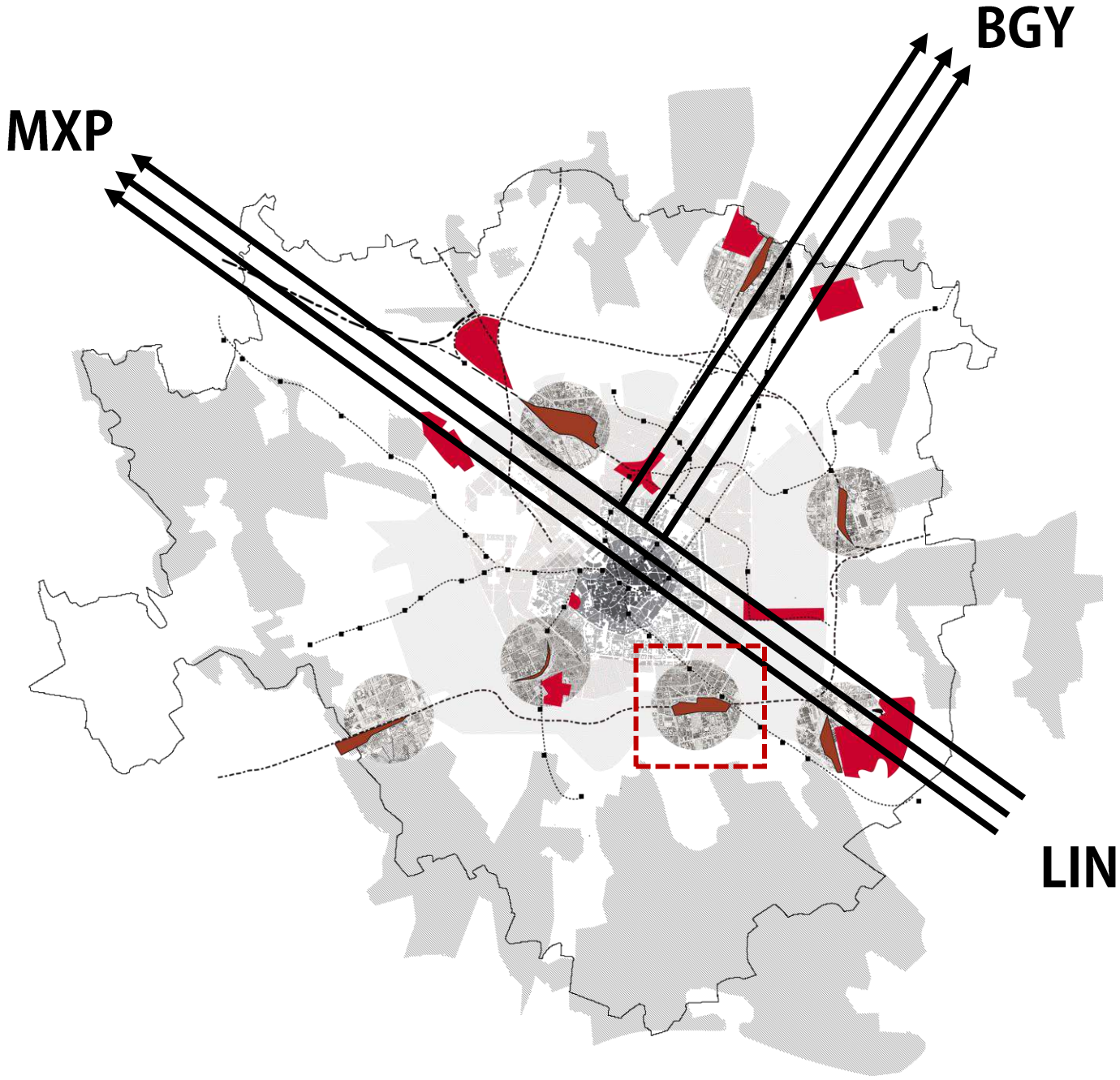


II Piano Pavia-Masera

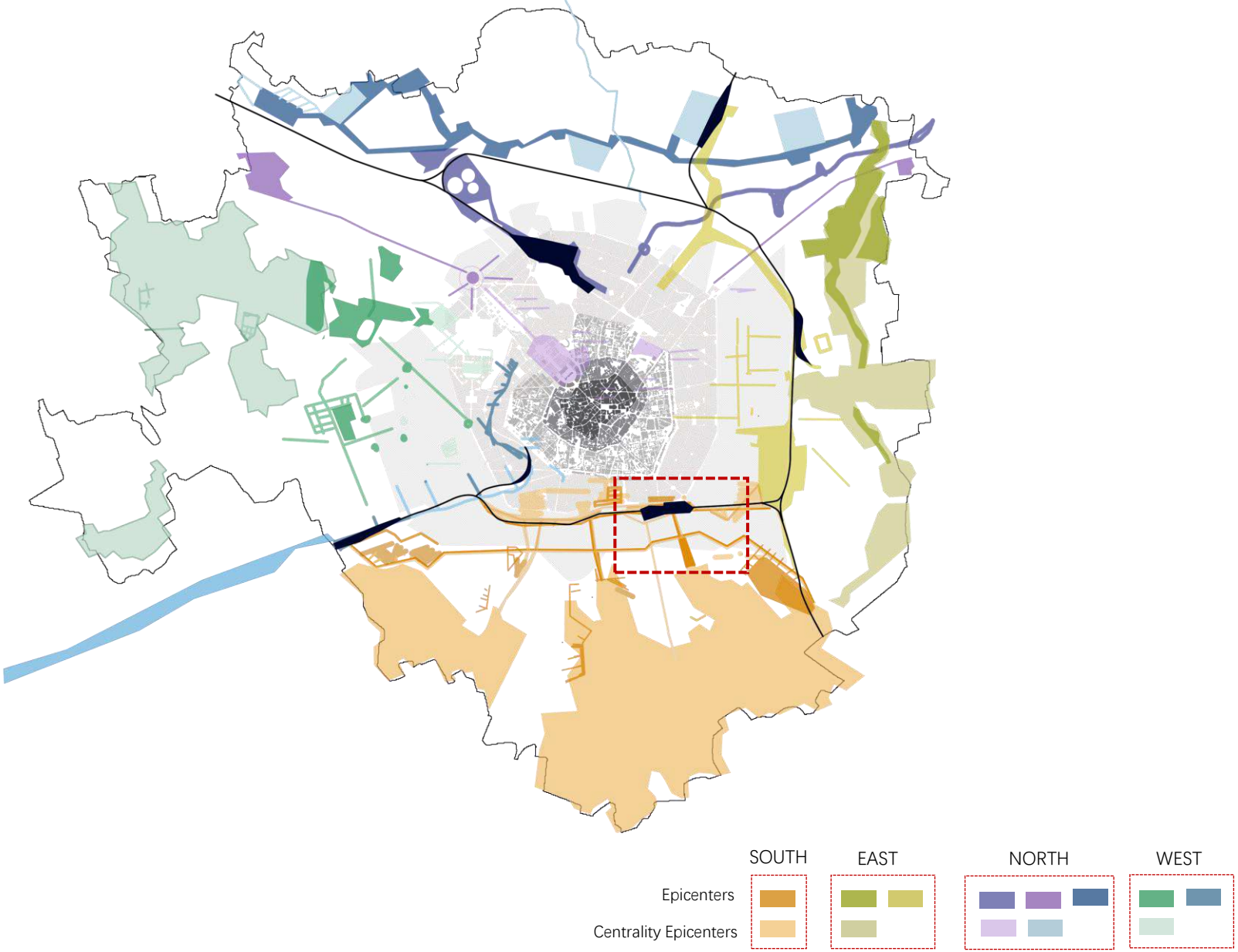

Ricostruire la Grade Milano del 2000
Il Piano di Governo del Territorio

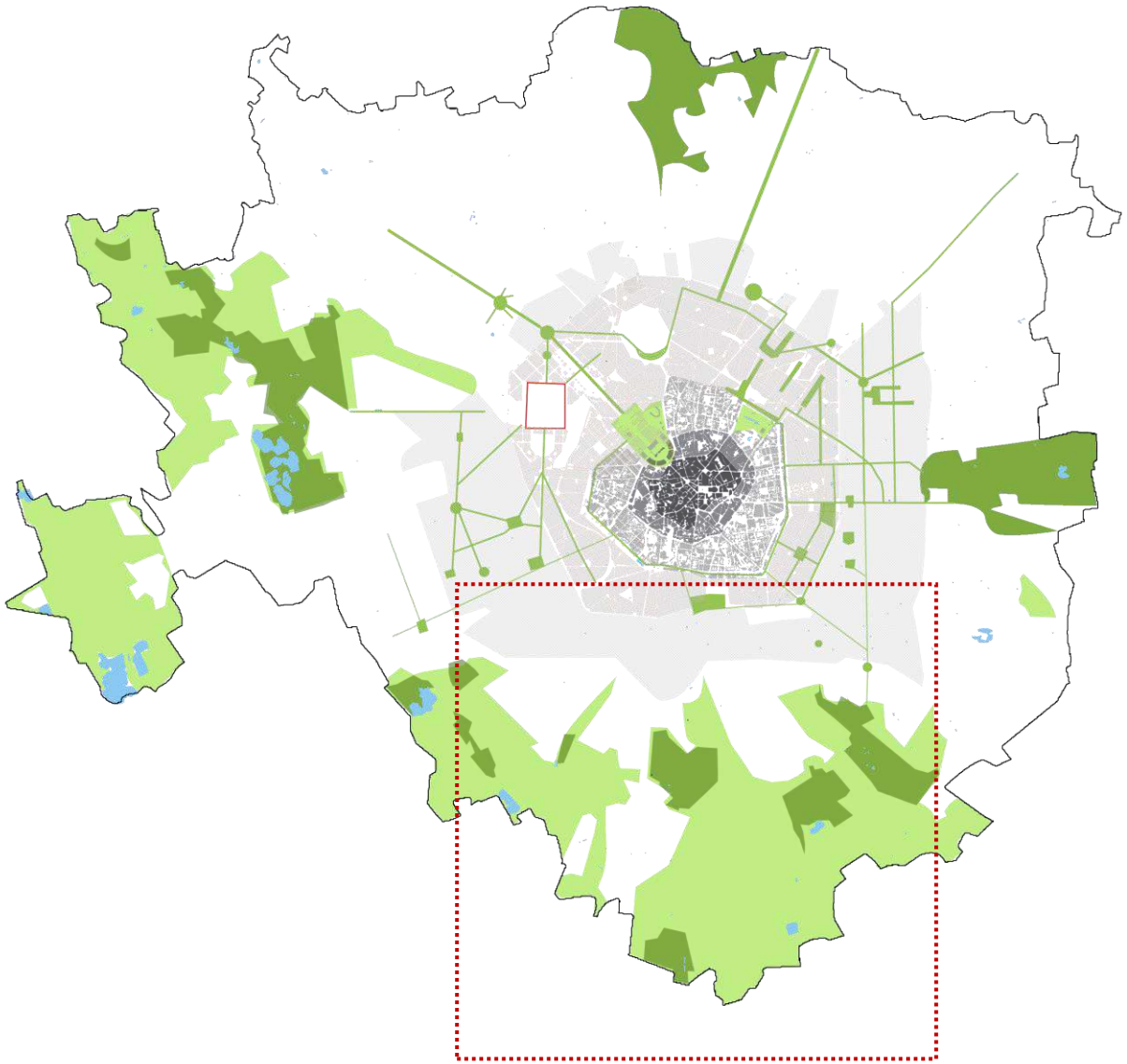


The Document focuses on two main elements of the **urban and metropolitan organization**: the line connecting the Malpensa and Linate airports, following the path of the railway link from north-west to south-east and the line towards Monza, perpendicular to the previous one, which they delineate an inverted T and slightly inclined towards the east. This scheme replaces the polycentric vision of the 1989 Director's Document, reintroducing the **centrality of the capital.**

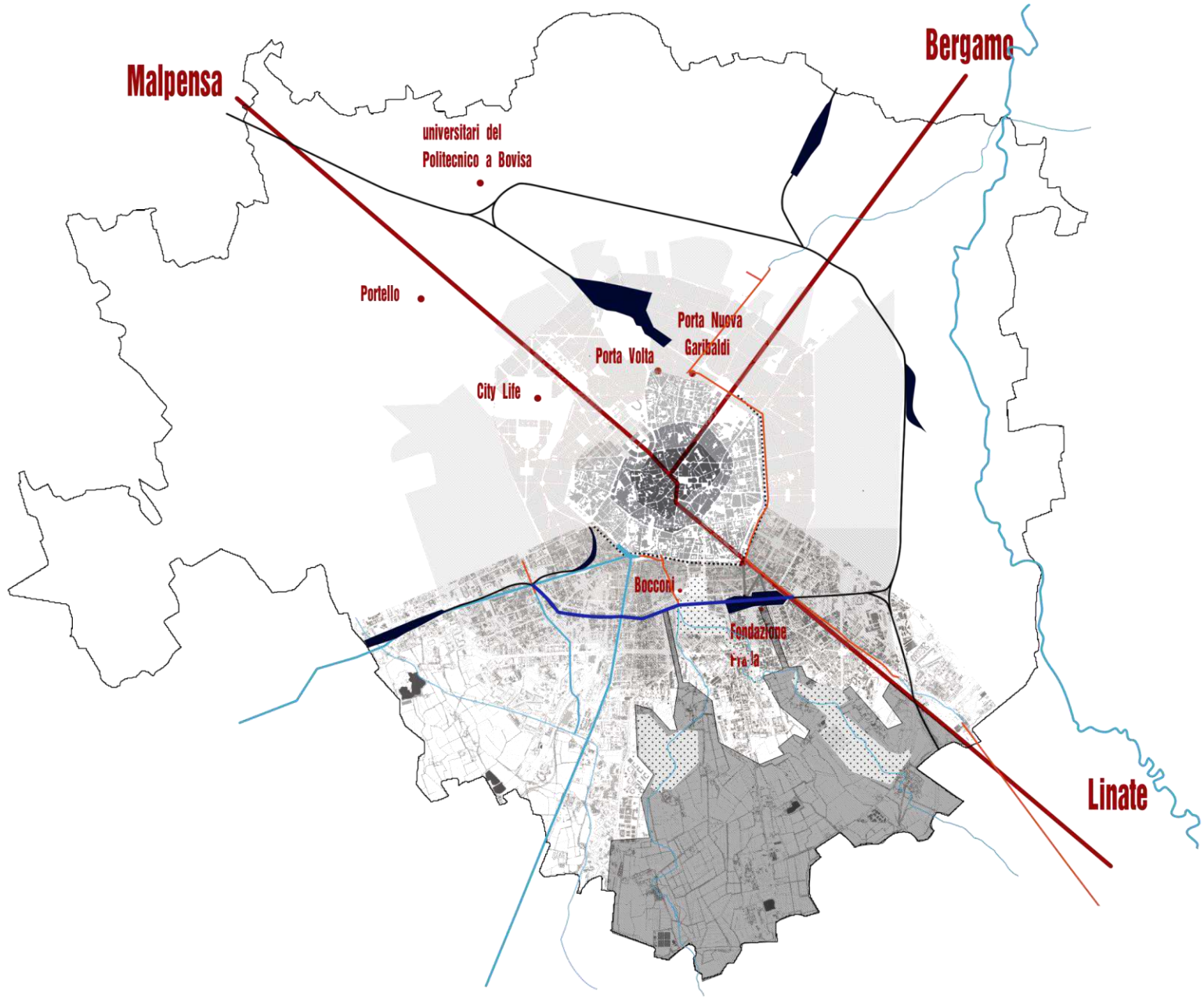


Il Piano di Governo del Territorio(2012-2018)





PARCO AGRICOLO SUD MILANO

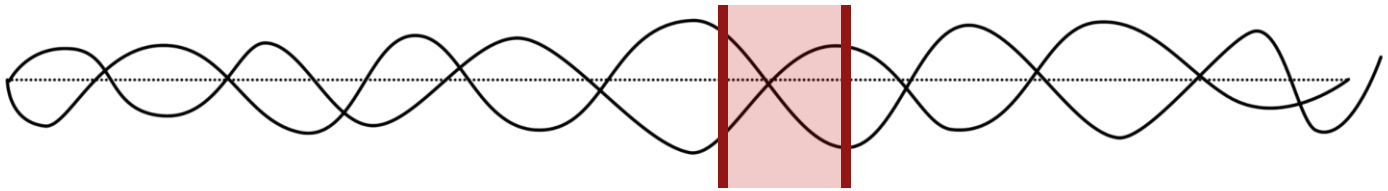


NEW LANDMARK
FOR MILANO

NEW CENTRE HUB
FOR SOUTH

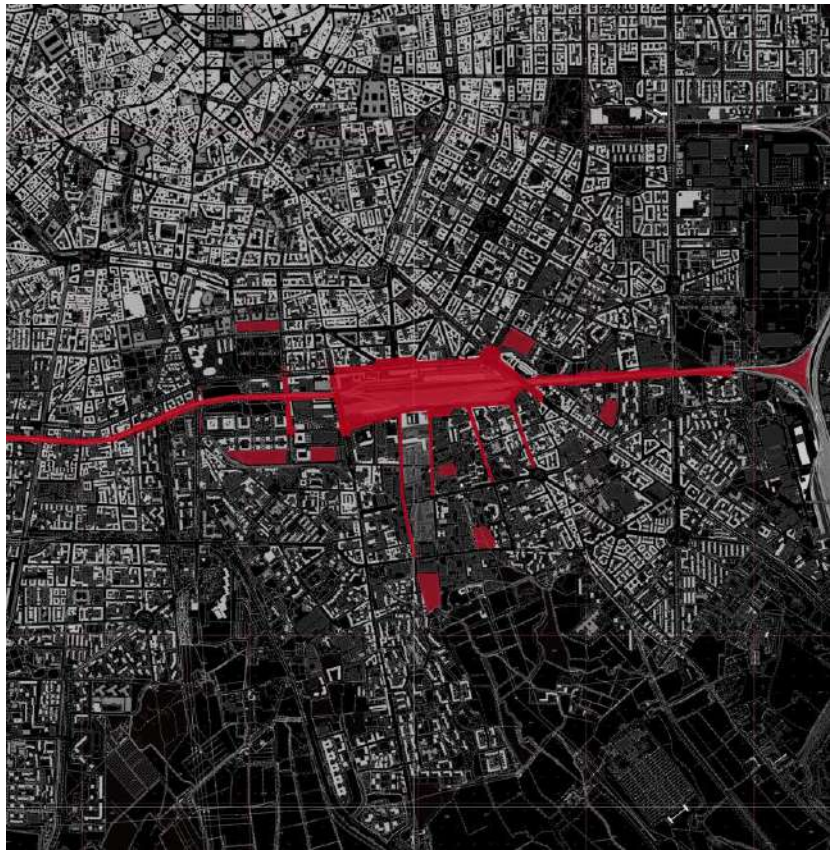
CONNECT SUD PARK
FOR SOUTH

- Grandi transformations
- PGT South
- Park

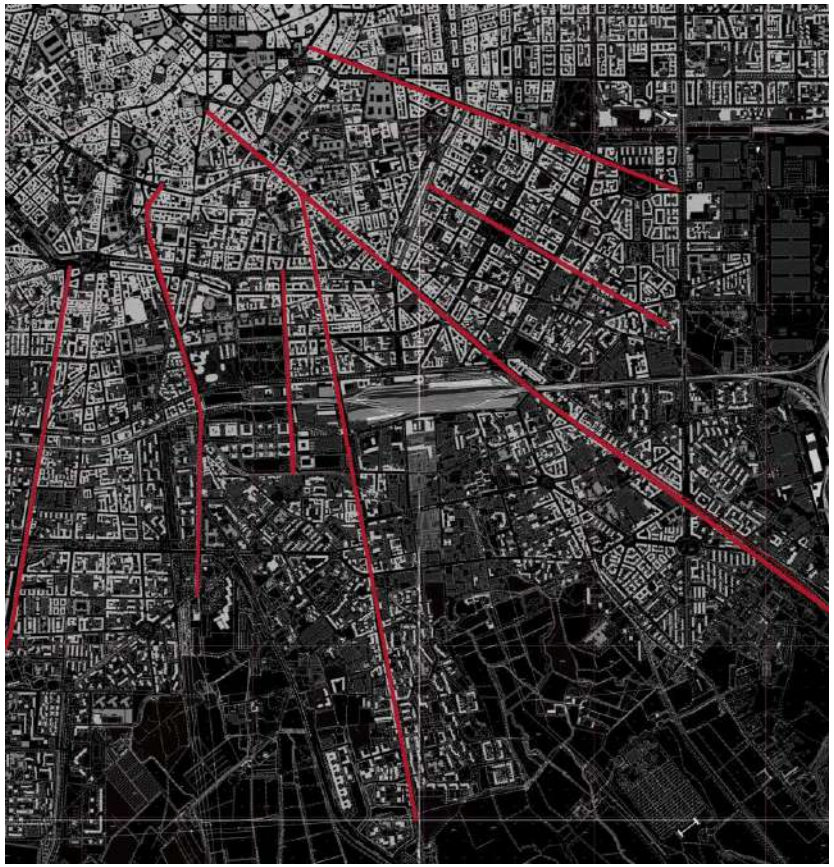


LIMIT

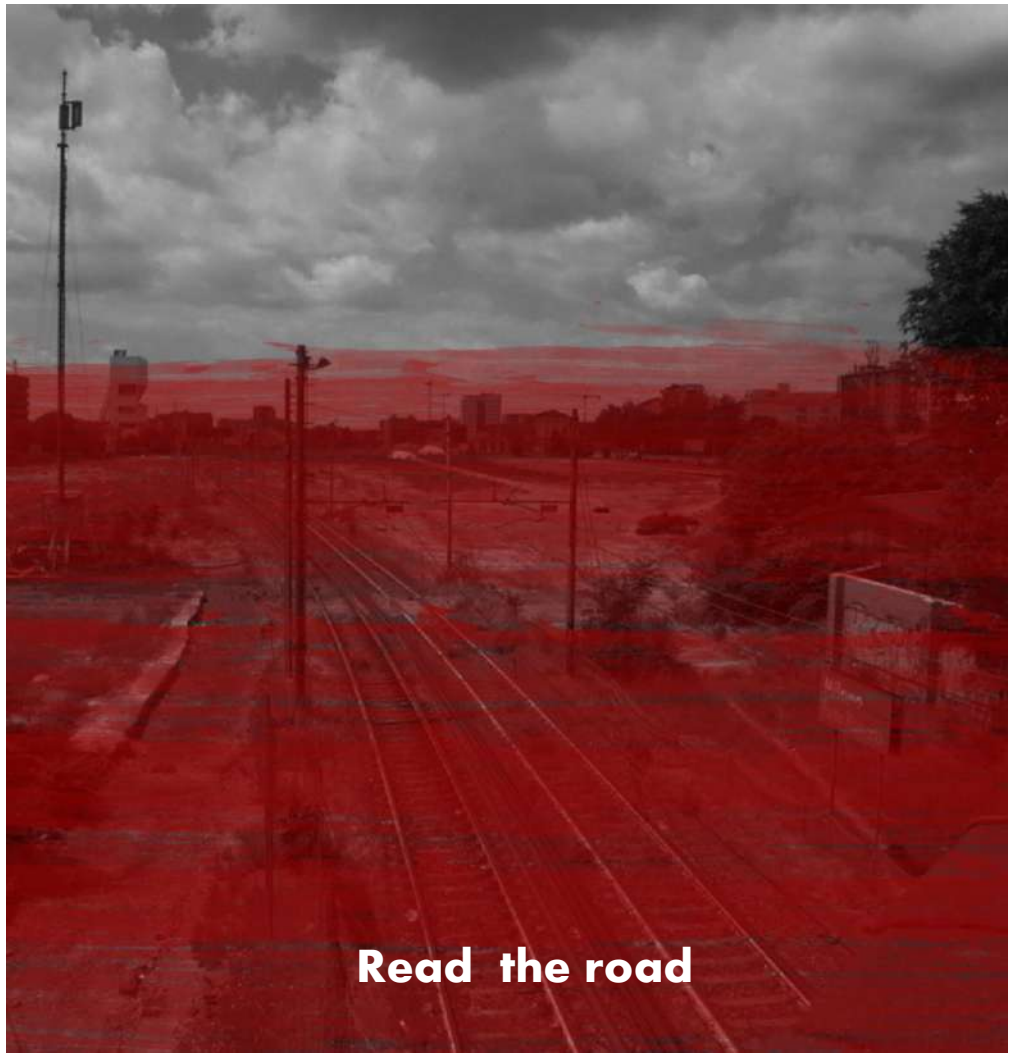
trace

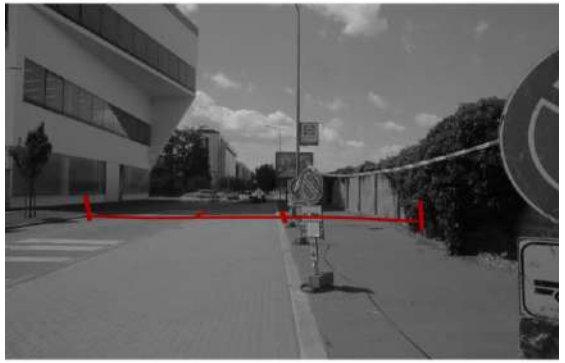


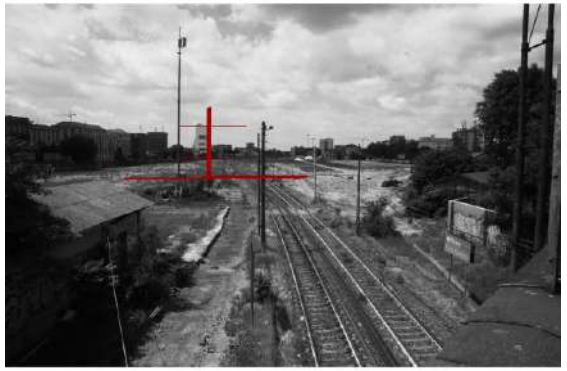
void



limits

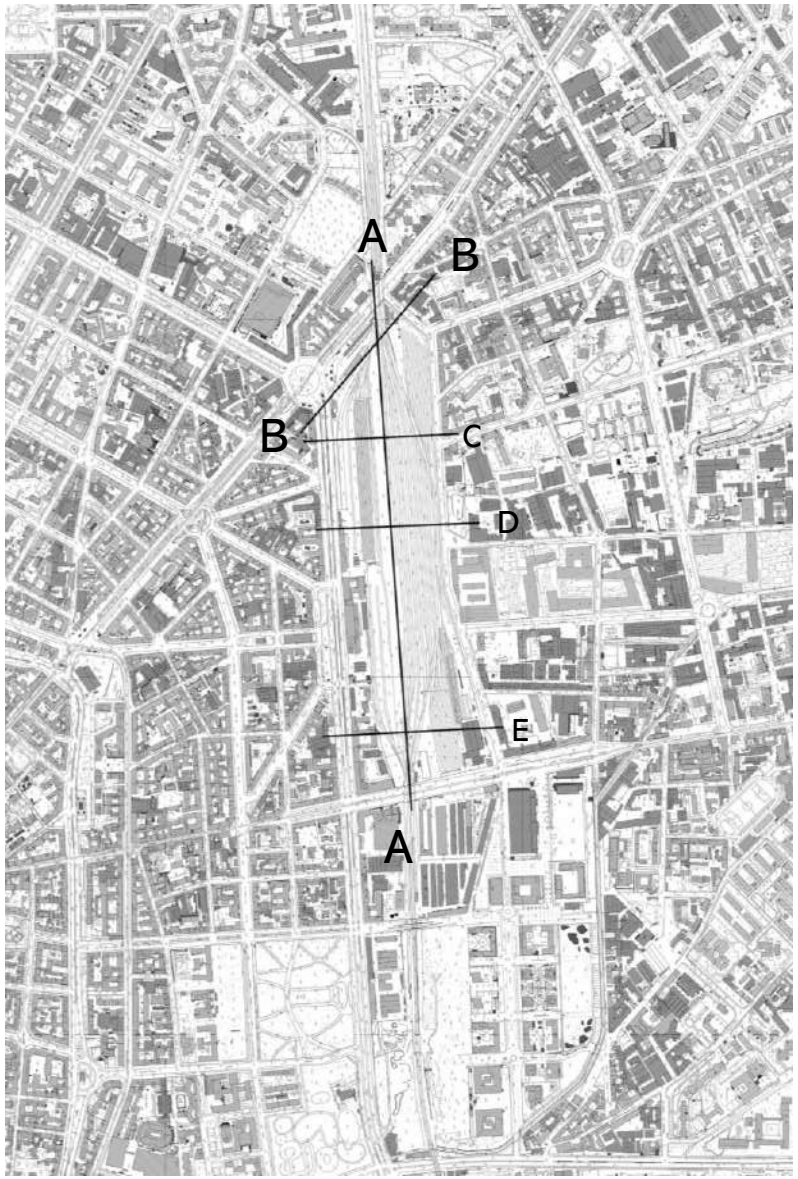

Read the road

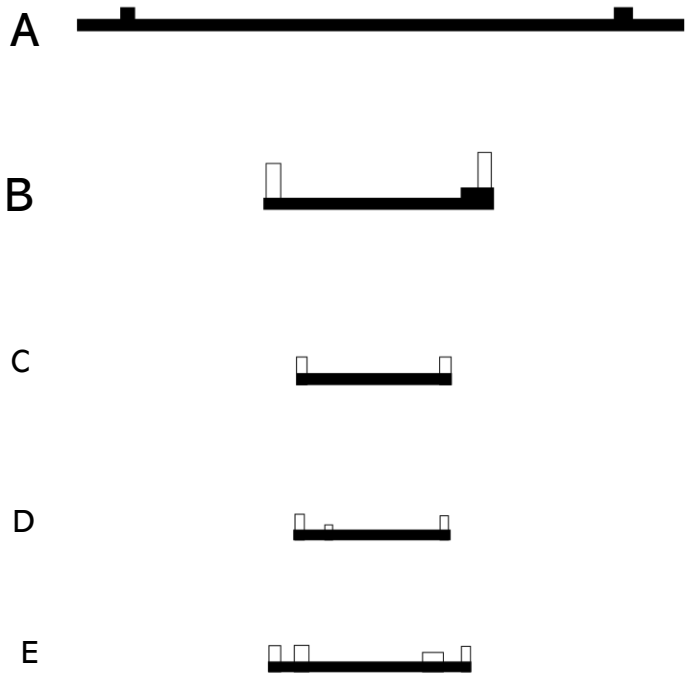


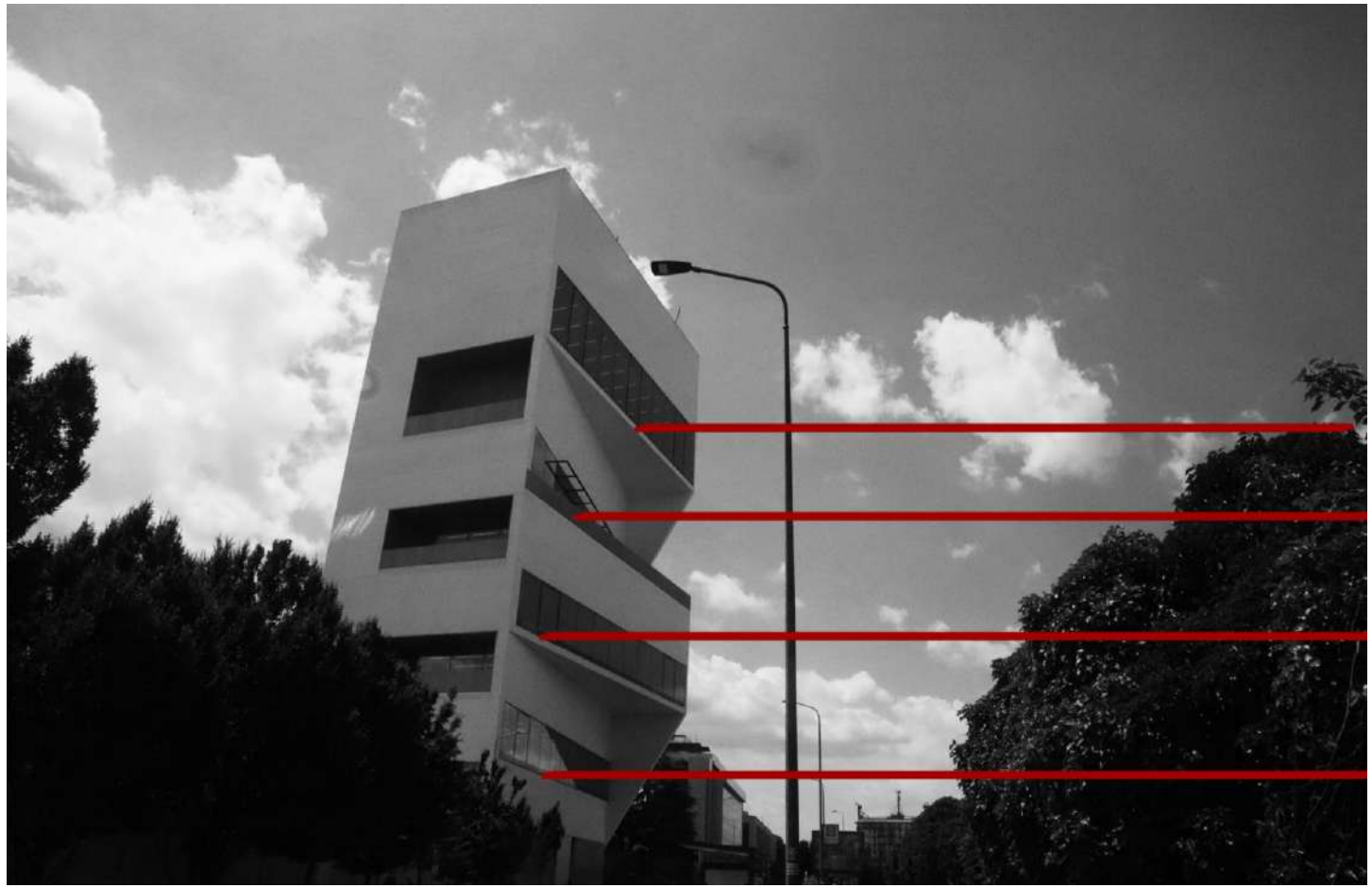


Fence

Danger


A
B
B
C
D
E
A


A
B
C
D
E



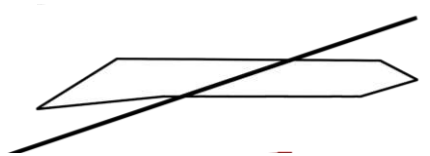
Read from tower

Fragile

Through the inspection of the current situation of the site, it is found that the site is now very fragile

Abandoned train tracks on the site, tearing apart the intact land

The isolated city island formed by the ground level difference and the wall cuts off the connection with the city

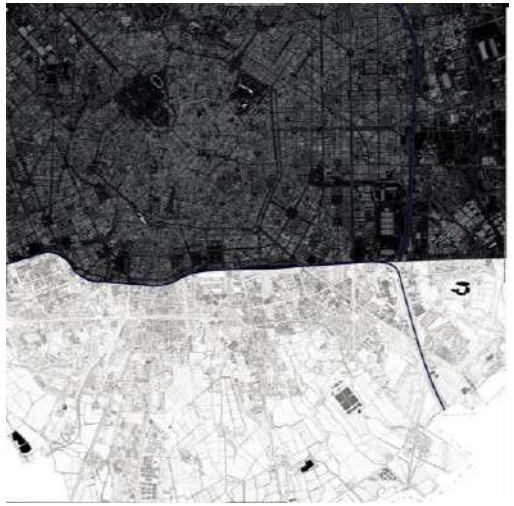


The north-south wall blocks the possibility of connection

The bridges on the east and west sides, the height difference formed brings limitations

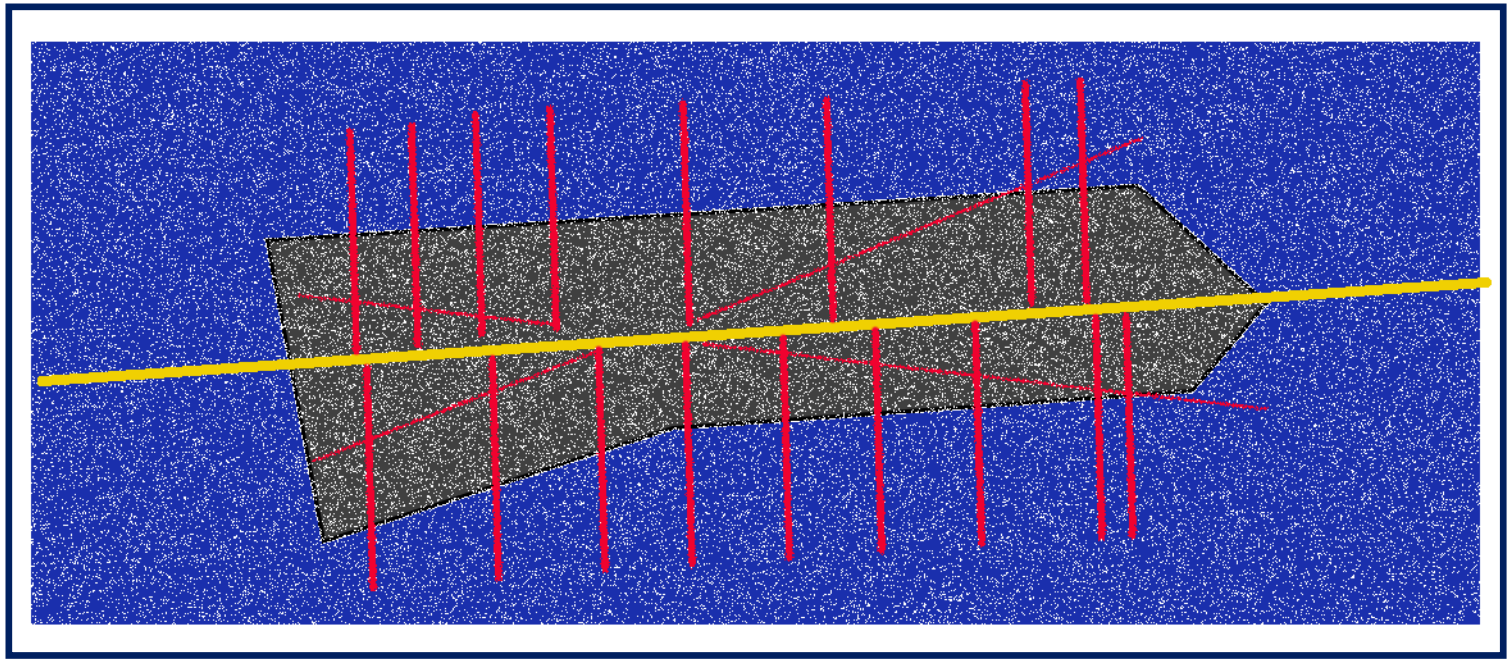
A huge open space is a waste for the city. It needs a new skyline to prove its existence.

CONCEPT



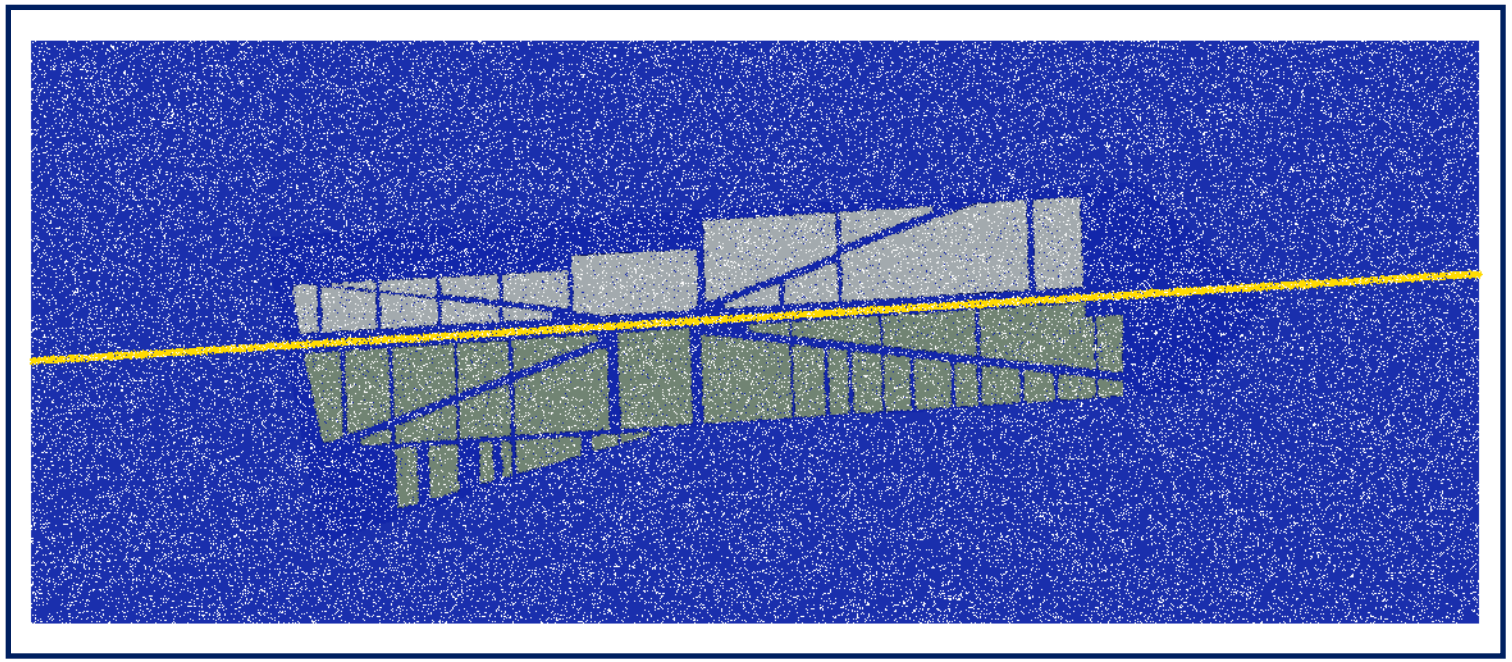
Concept process

CHAPTER 1



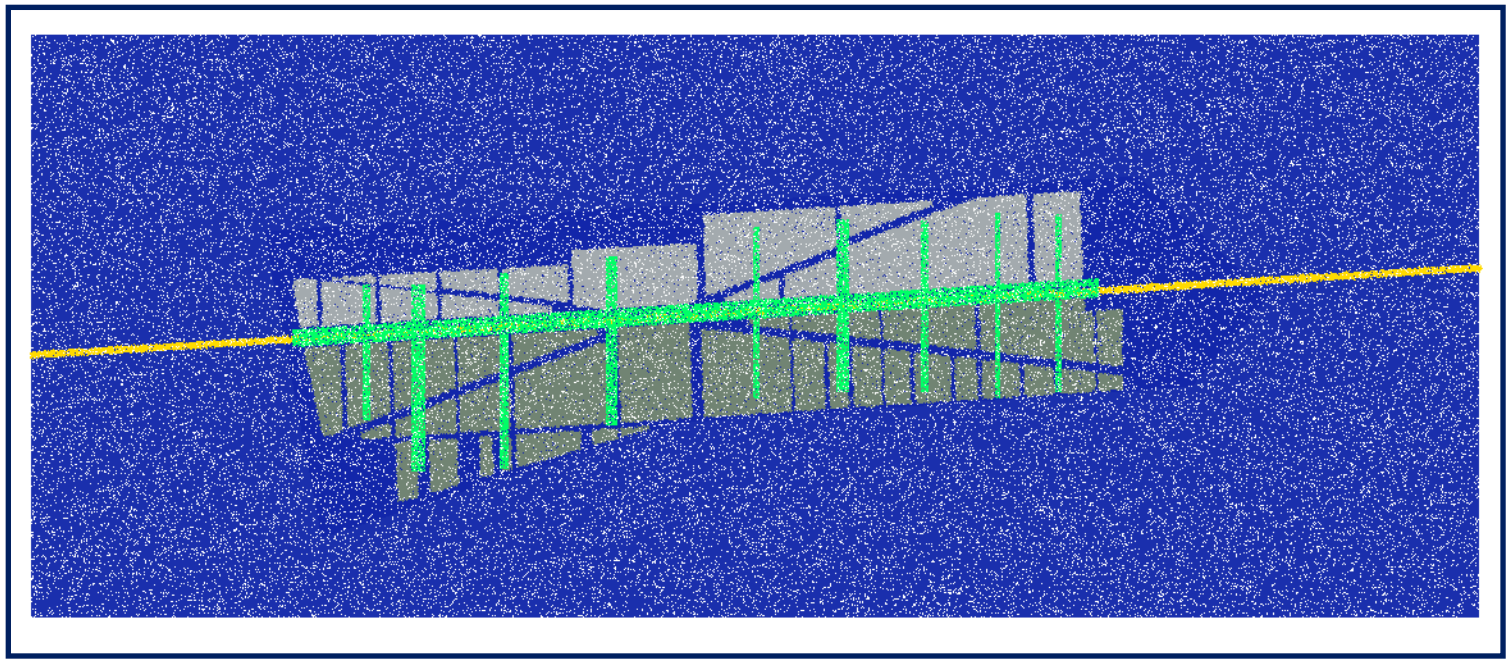
Reconnection

Activate railways and add north-south road links



New text

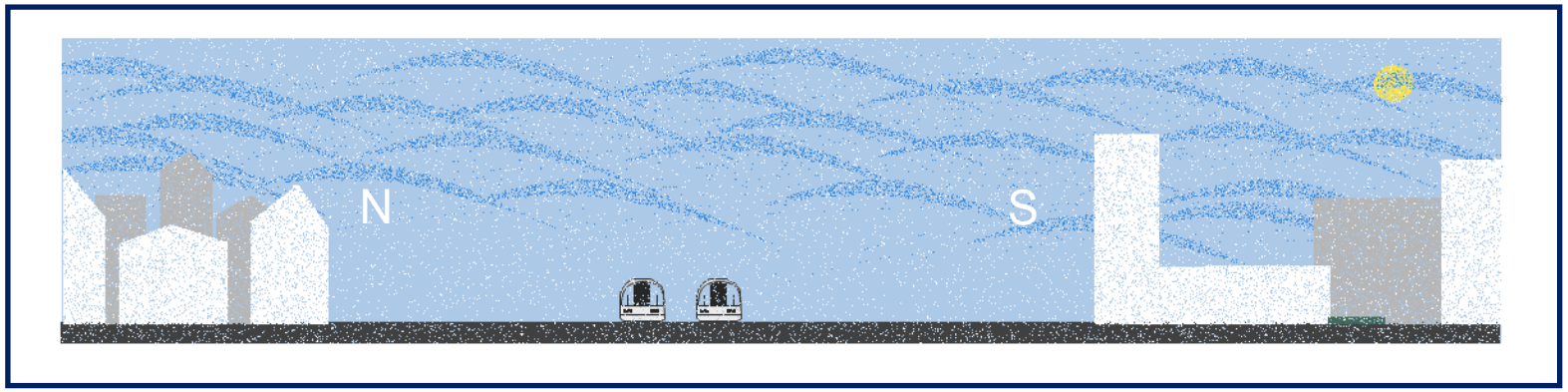
Blocks divided by roads



COVER(connect)

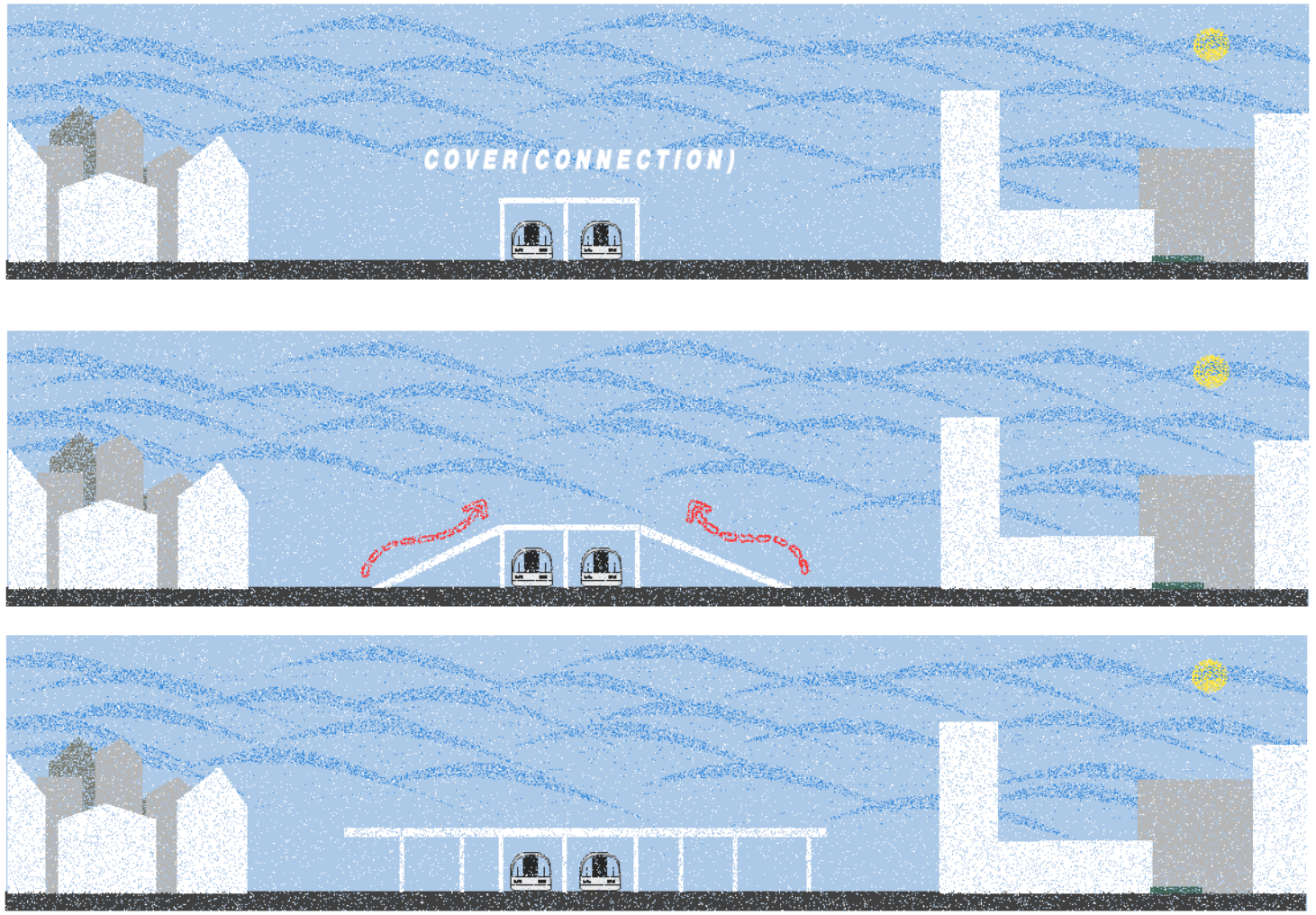
The new platform connects the north and south of the railway, covers the railway, and leads the green to the north

CHAPTER 2



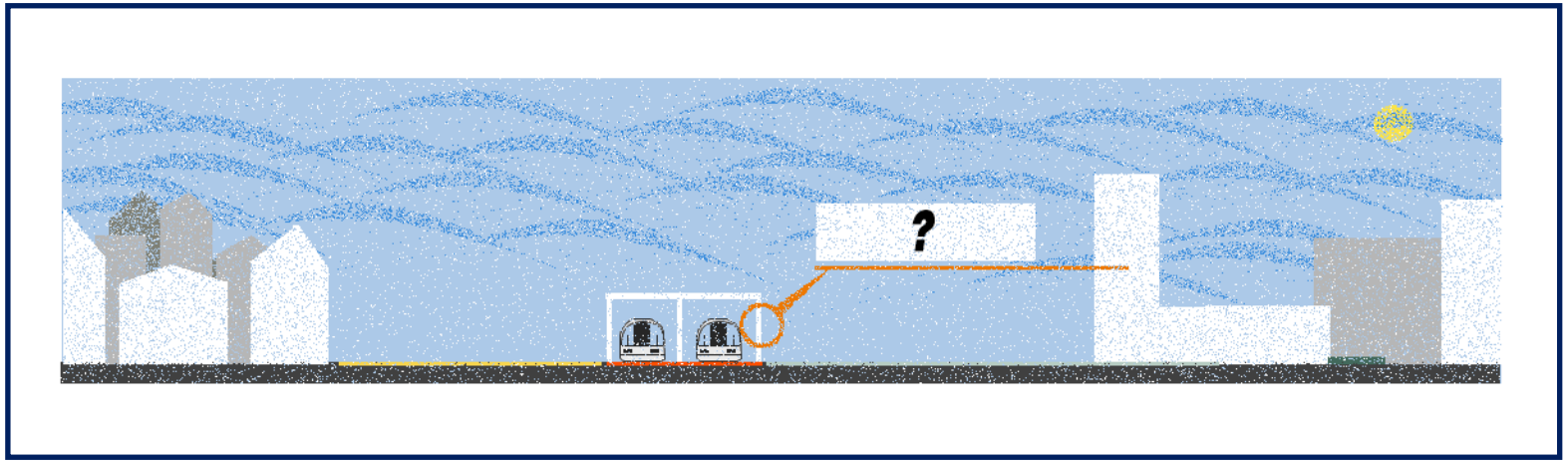
Section strategy

Study different types of sections



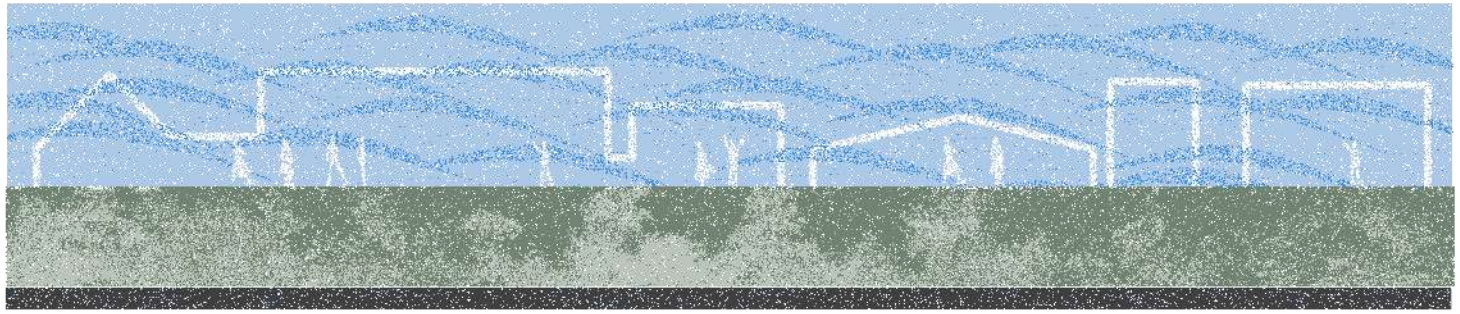
COVER

The railway truncates the north and south, adding a cover to the railway, not only can sew the north and south, but also does not affect the speed of the railway,
'cover'- gray infrastructure to green



WALL

The new cover is a huge wall for the city, viewed from north and south, different types of walls have different effects



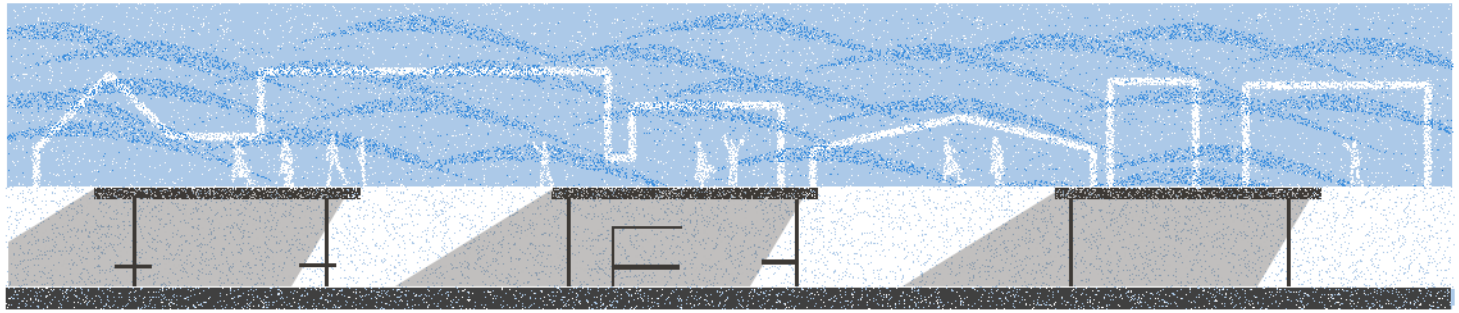
GREEN WALL

The green wall is like a mountain, which is the unique green of the city façade. Reduce the negative impact of cement (temperature), bring more experiences to the city (farm, gardening, art)

ART WALL

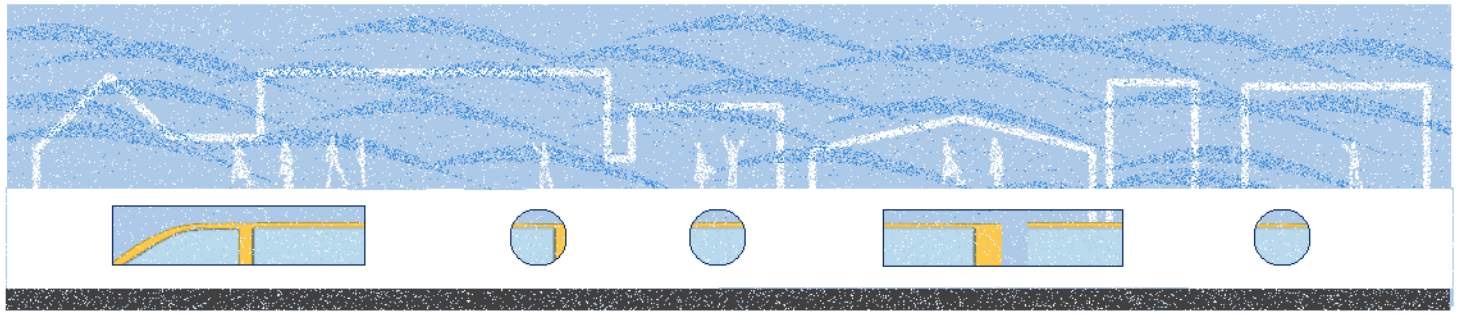
The art wall, compared to the boring cement wall, is like a vertical urban canvas, expressing people's thinking

transparent wall



Shadow wall

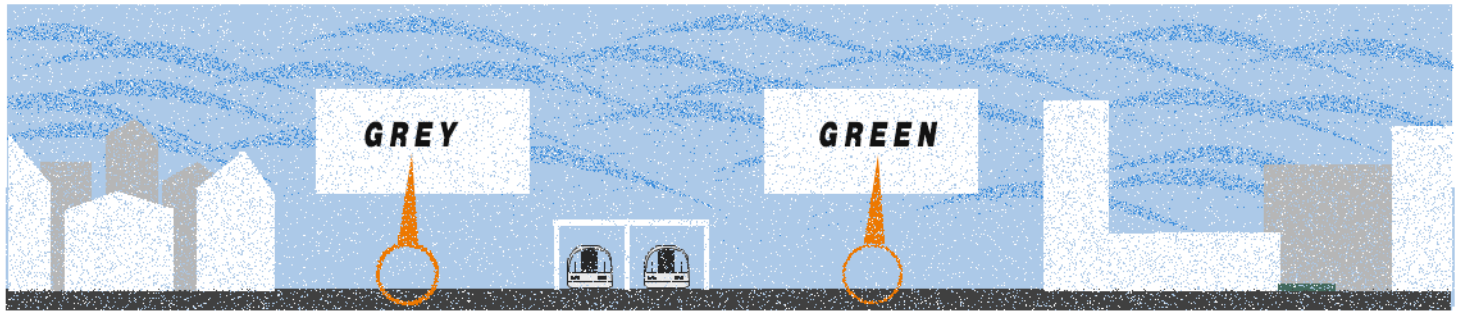
In case of rain and windy weather nearby, provide a comfortable place to improve life



Transparent wall

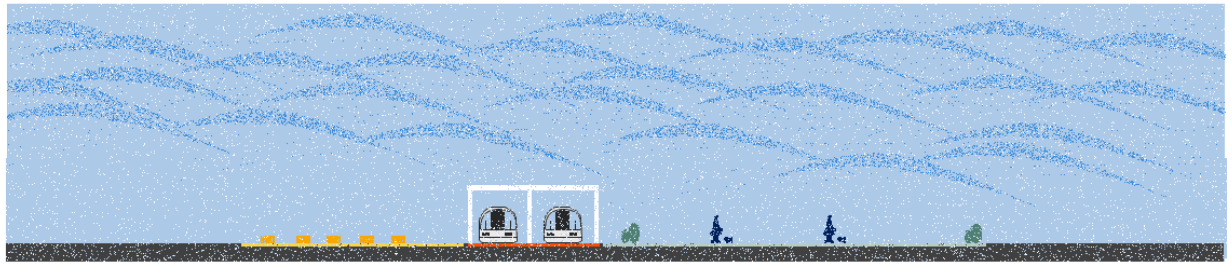
The cement wall blocks people's sight, and the transparent property of glass allows people outside the wall to observe the inside of the wall, and even people on both sides to communicate through this window

CHAPTER 3



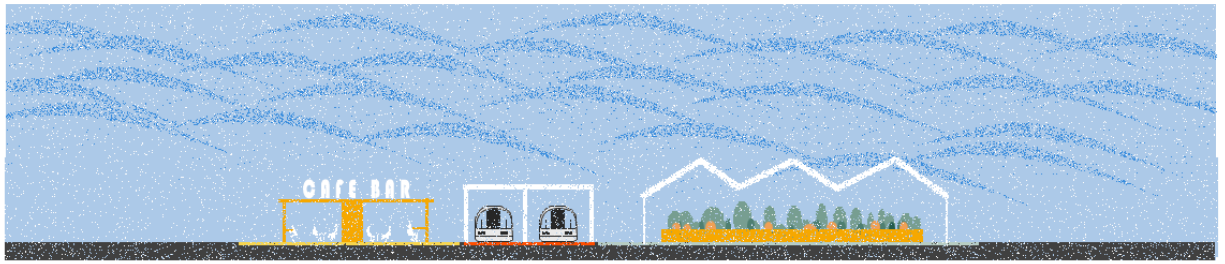
GREY AND GREEN

Distinguish north and south, forming a strong contrast



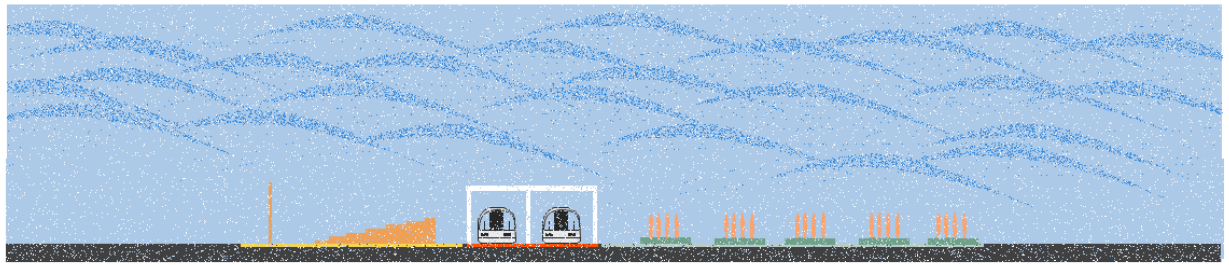
REST PARK

DOG PARK



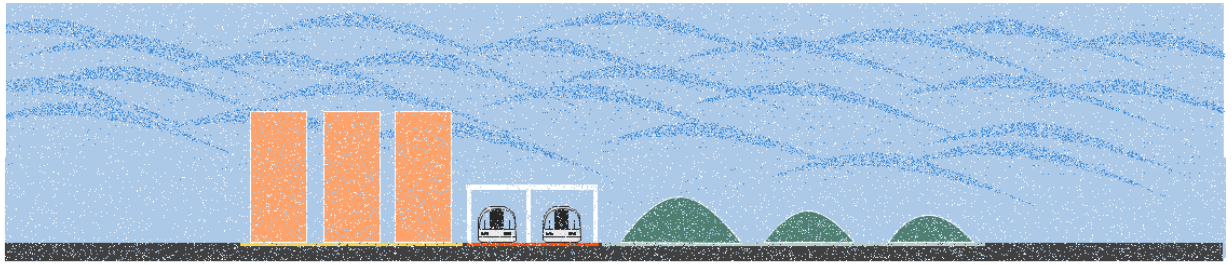
BAR

GREEN HOUSE



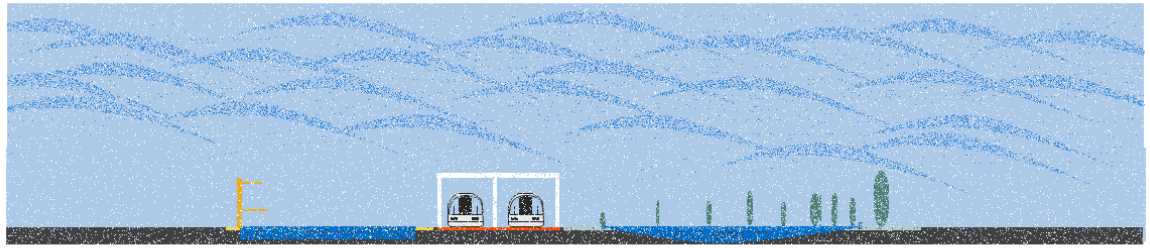
AMPHITHEATRE

FARMLAND



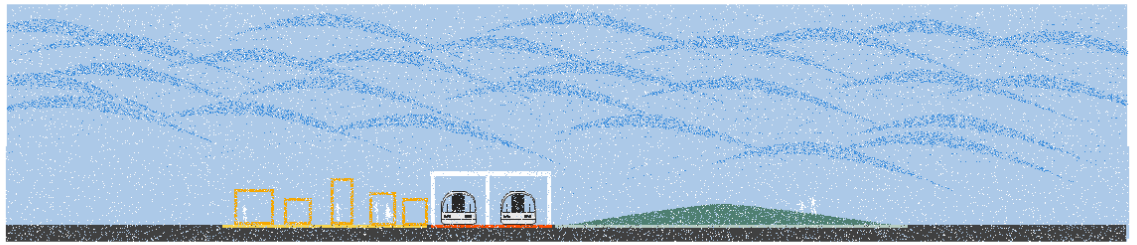
VILLAGE

HILL GARDEN



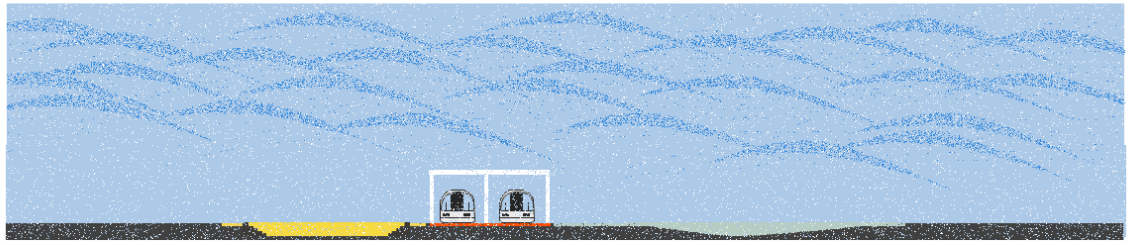
SWIMMING POOL

LARK



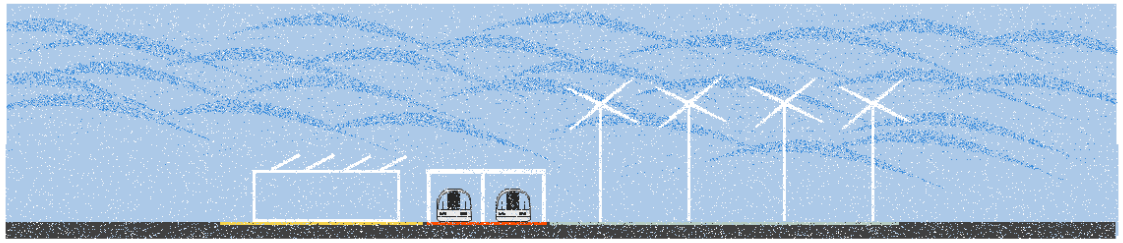
MEET BOX

EVENT GARDEN



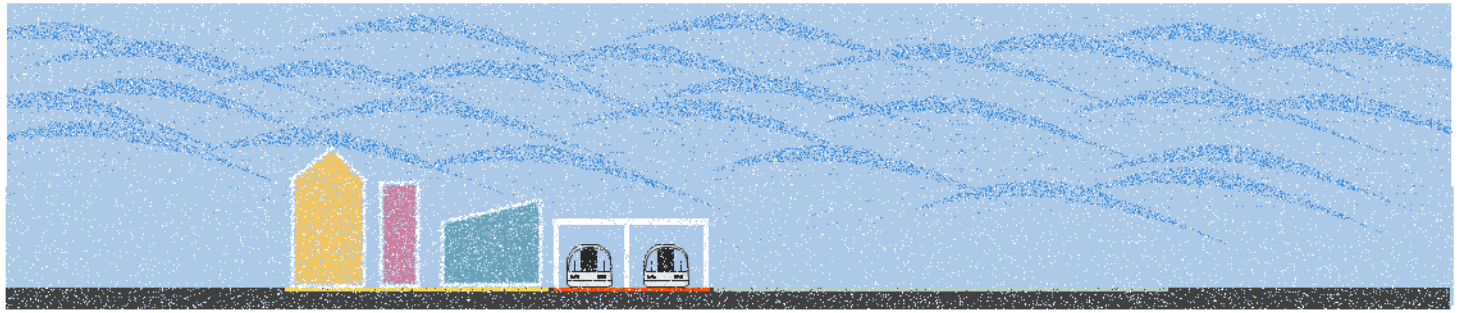
UNDERGROUND PLAYGROUND

UNDERGROUND GARDEN



PHOTOVOLTAIC

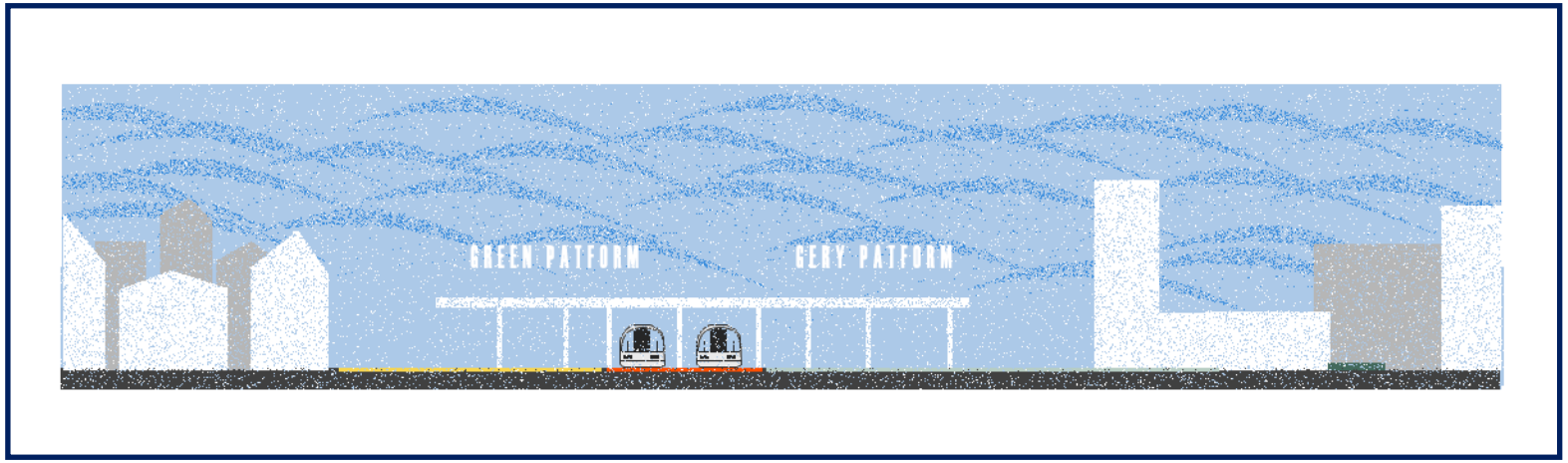
WIND ENERGY



Community Center

Libraries, Recreation Centers, Nurseries, Cinemas, Employment Assistance

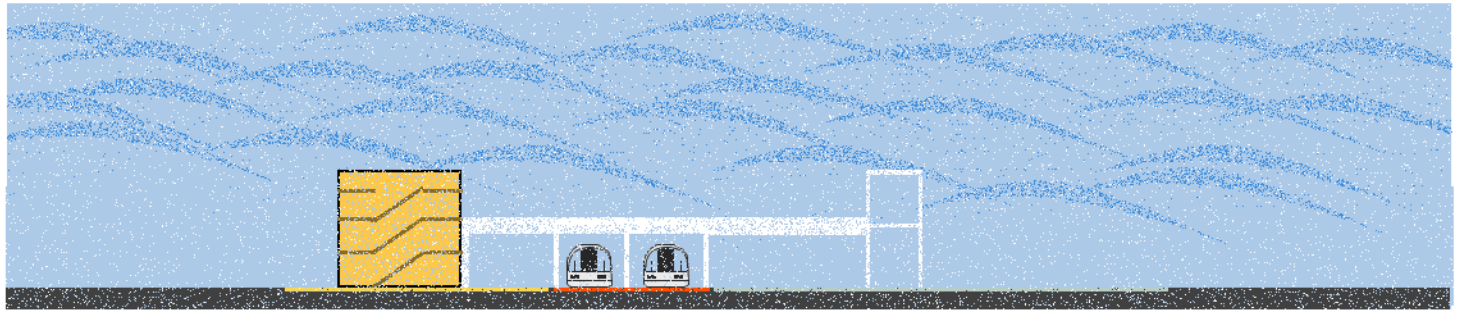
CHAPTER 4



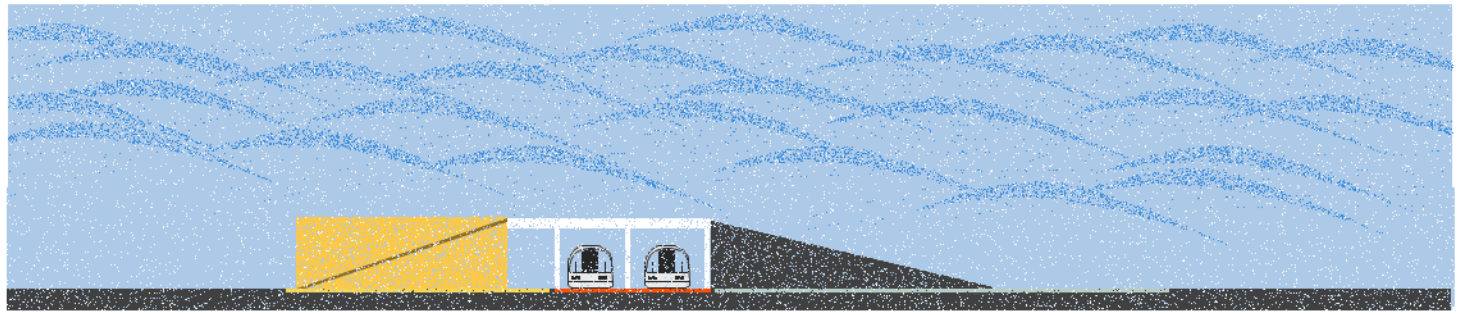
Platform

The height difference is filled by the platform, and the gray and green blend with each other

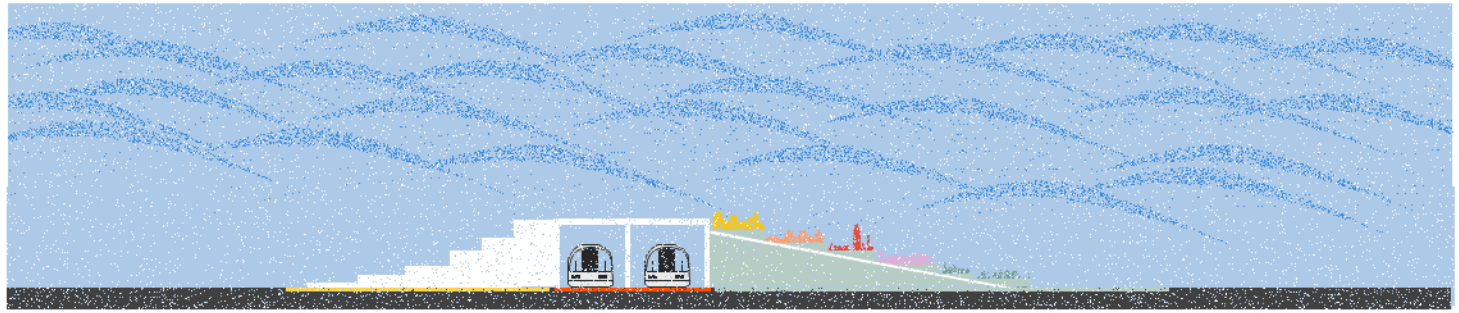
Green bridge



Connect buildings and lift



Connect roof and slop



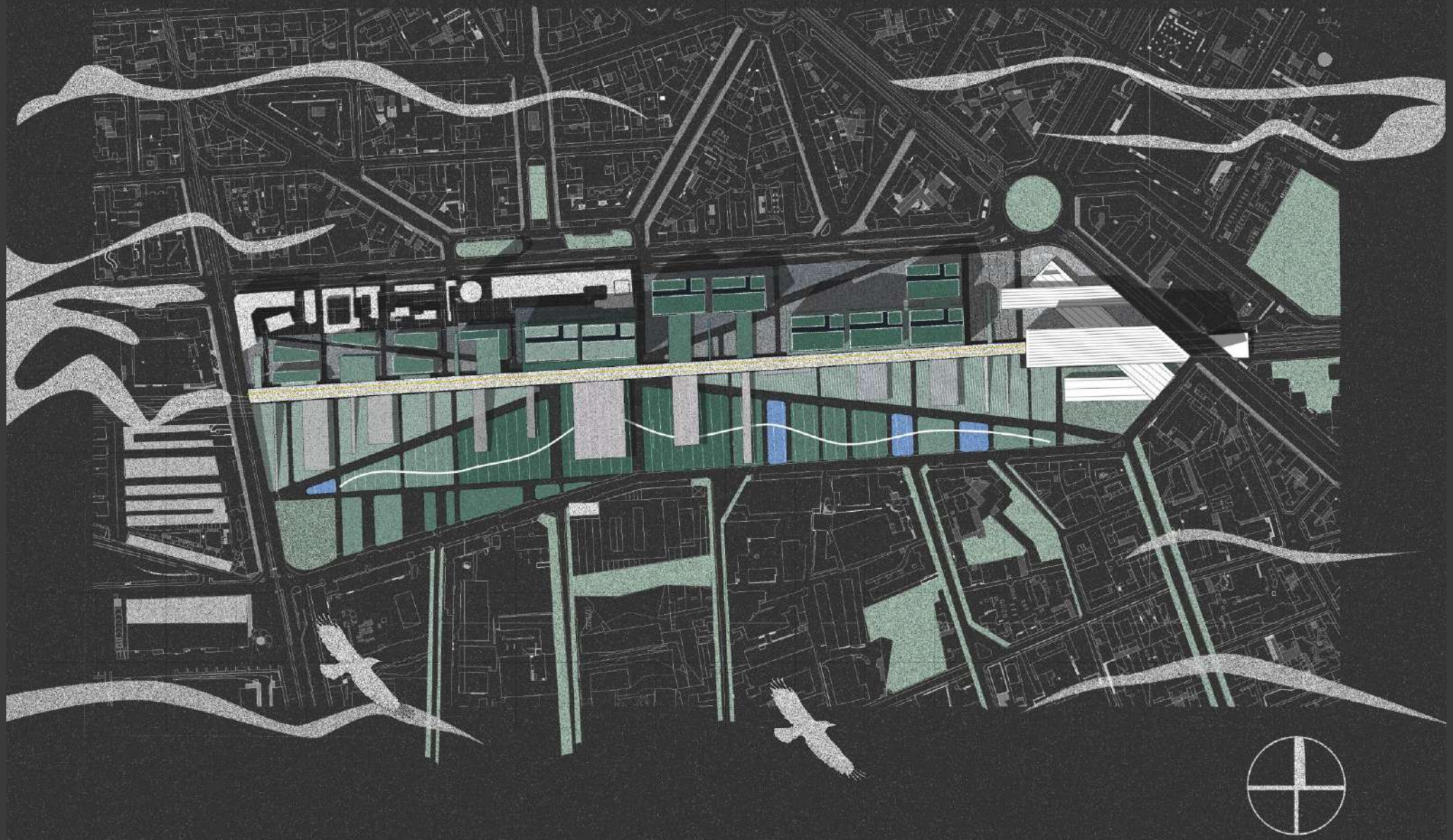
Terrace Landscape and Retaining Wall Landscape

Master plan

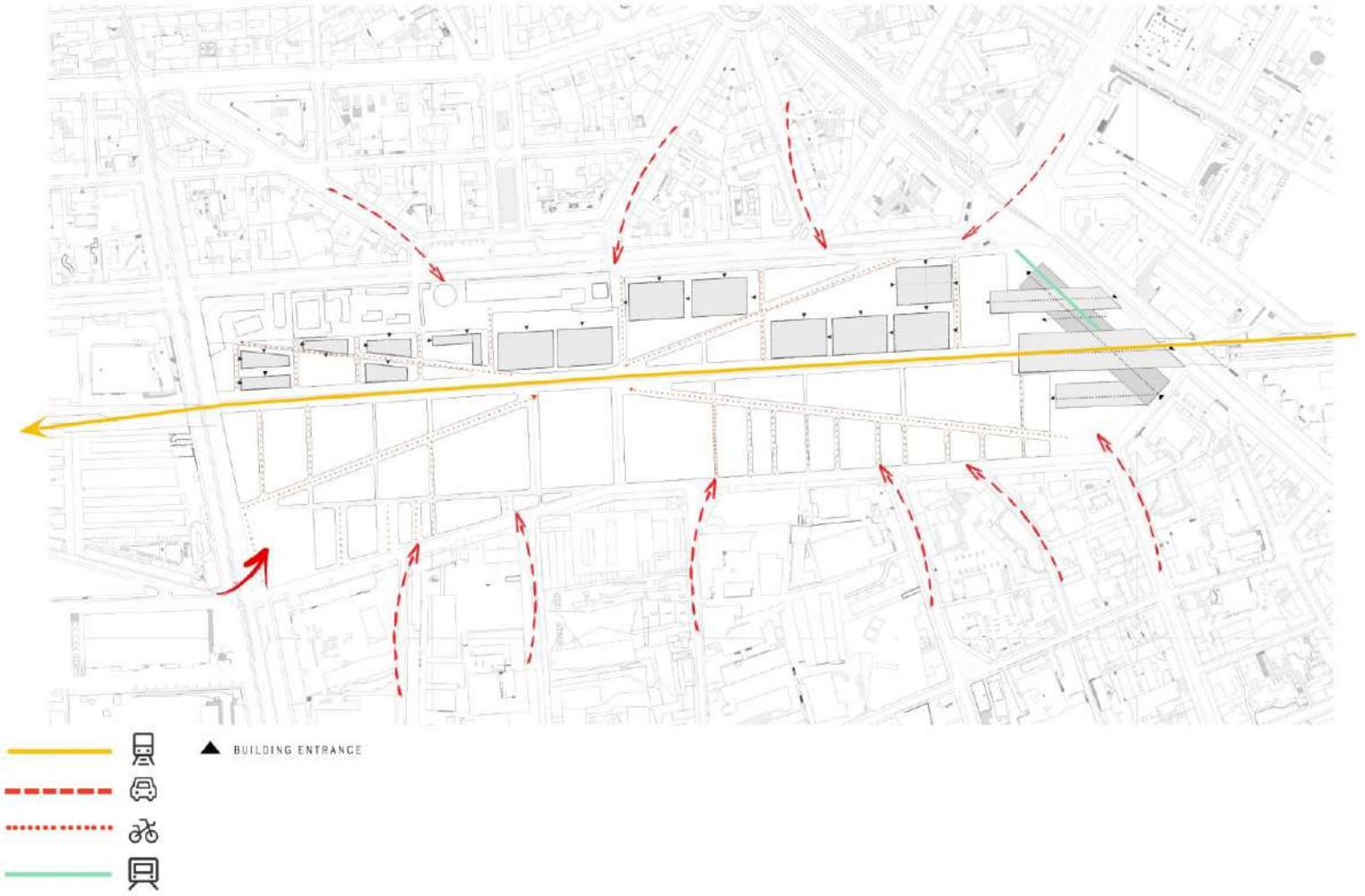
PORTA ROMANA

MASTER PLAN

1:2000



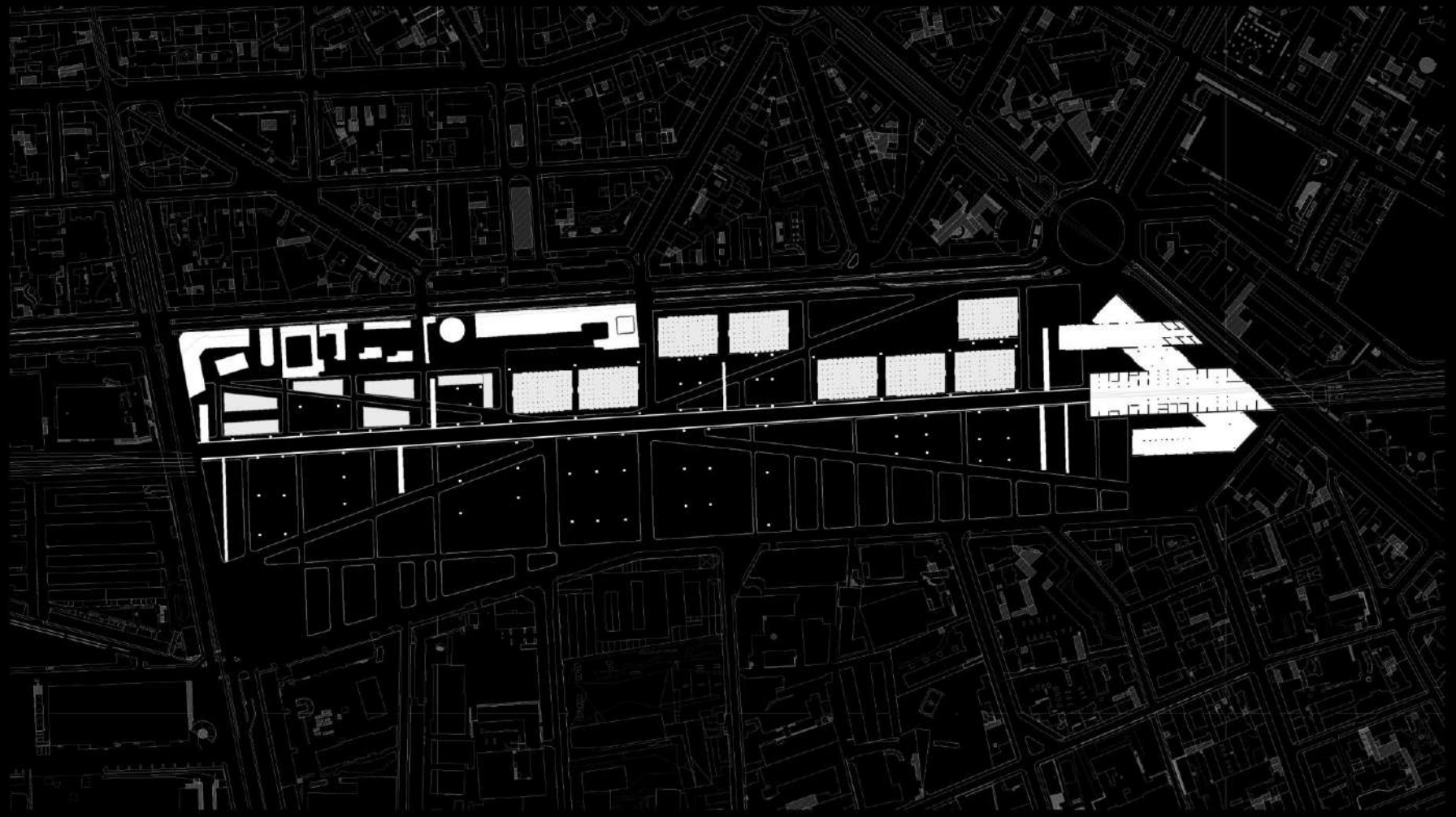
ACCESSIBILITY



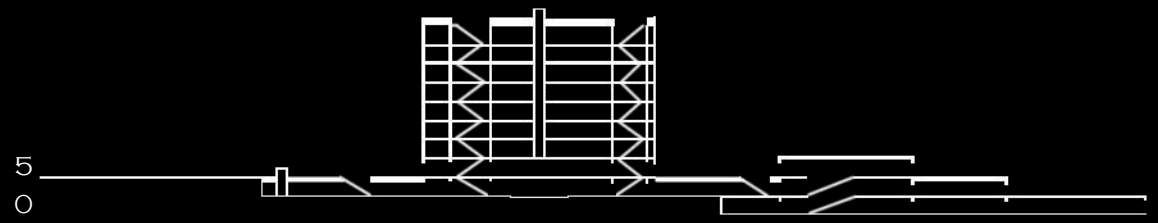
COVER FACADE (WALL)

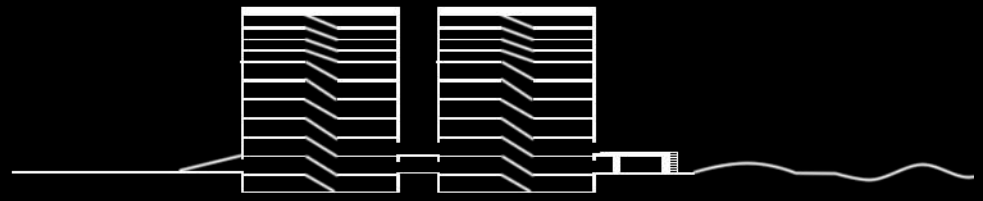
PLATFORM

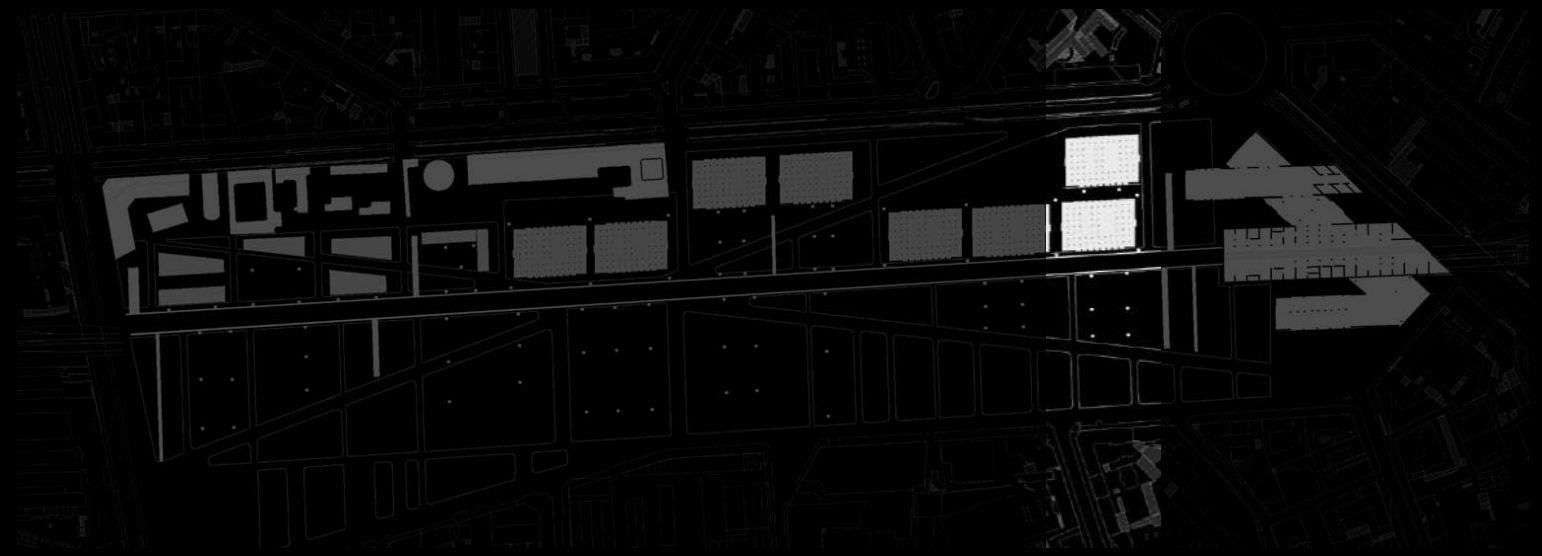
Ground floor

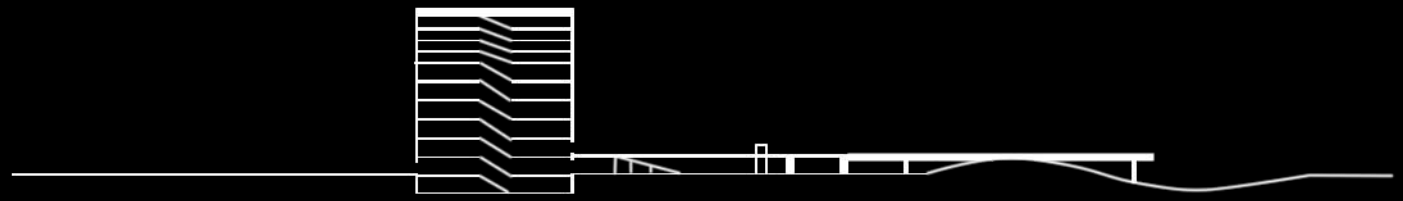


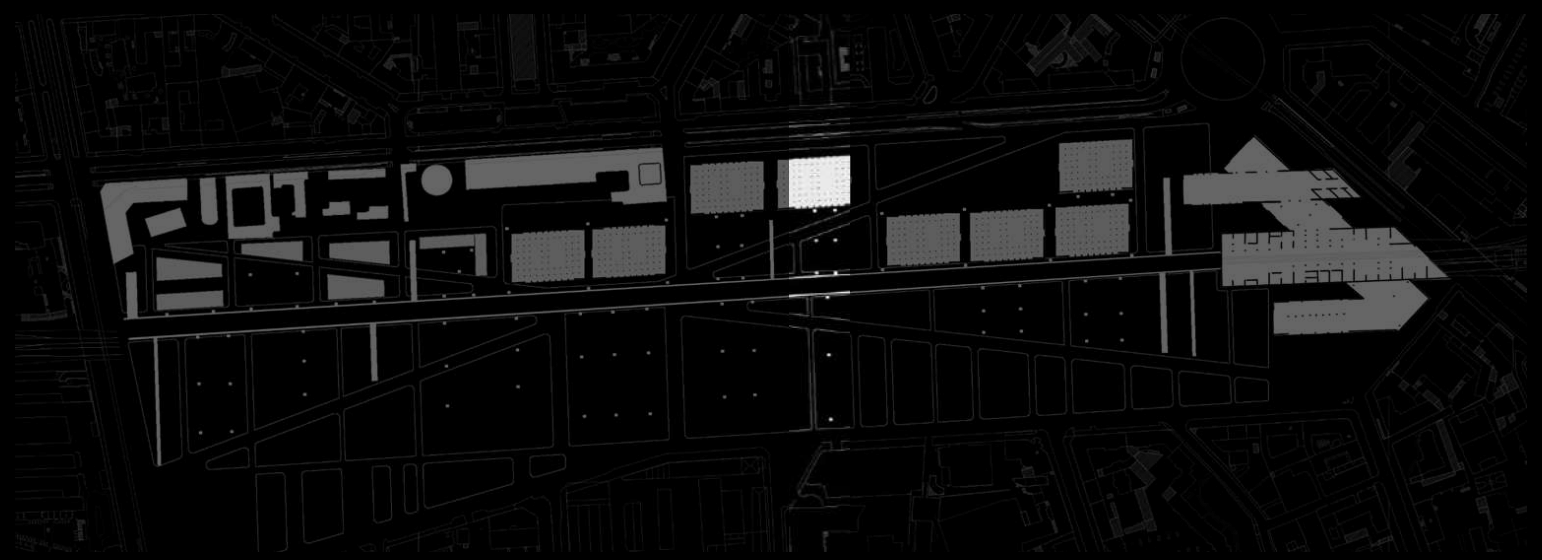
Connection system

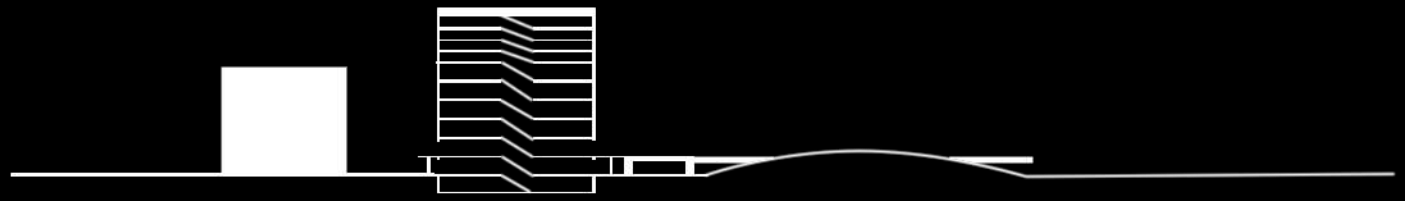


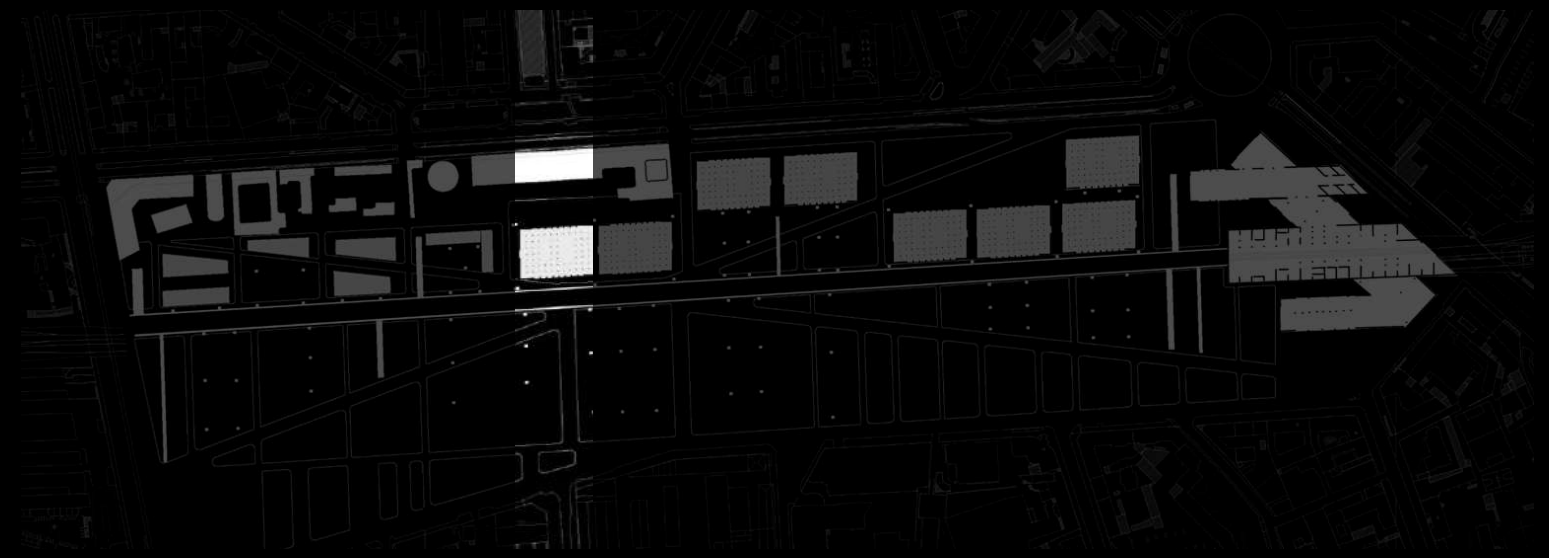


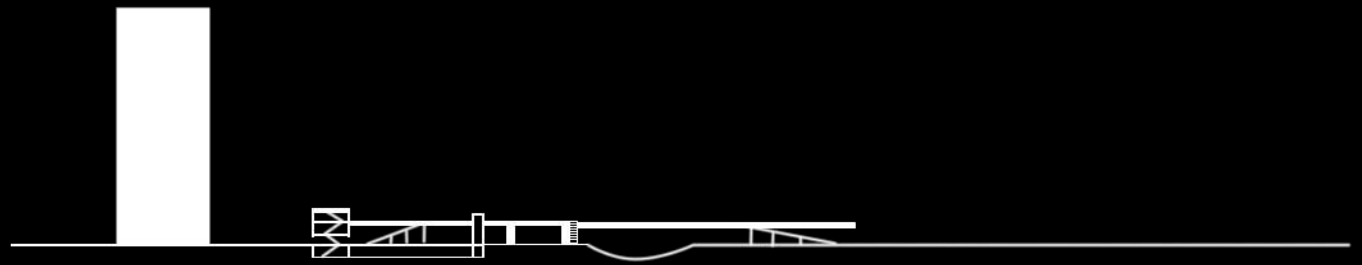








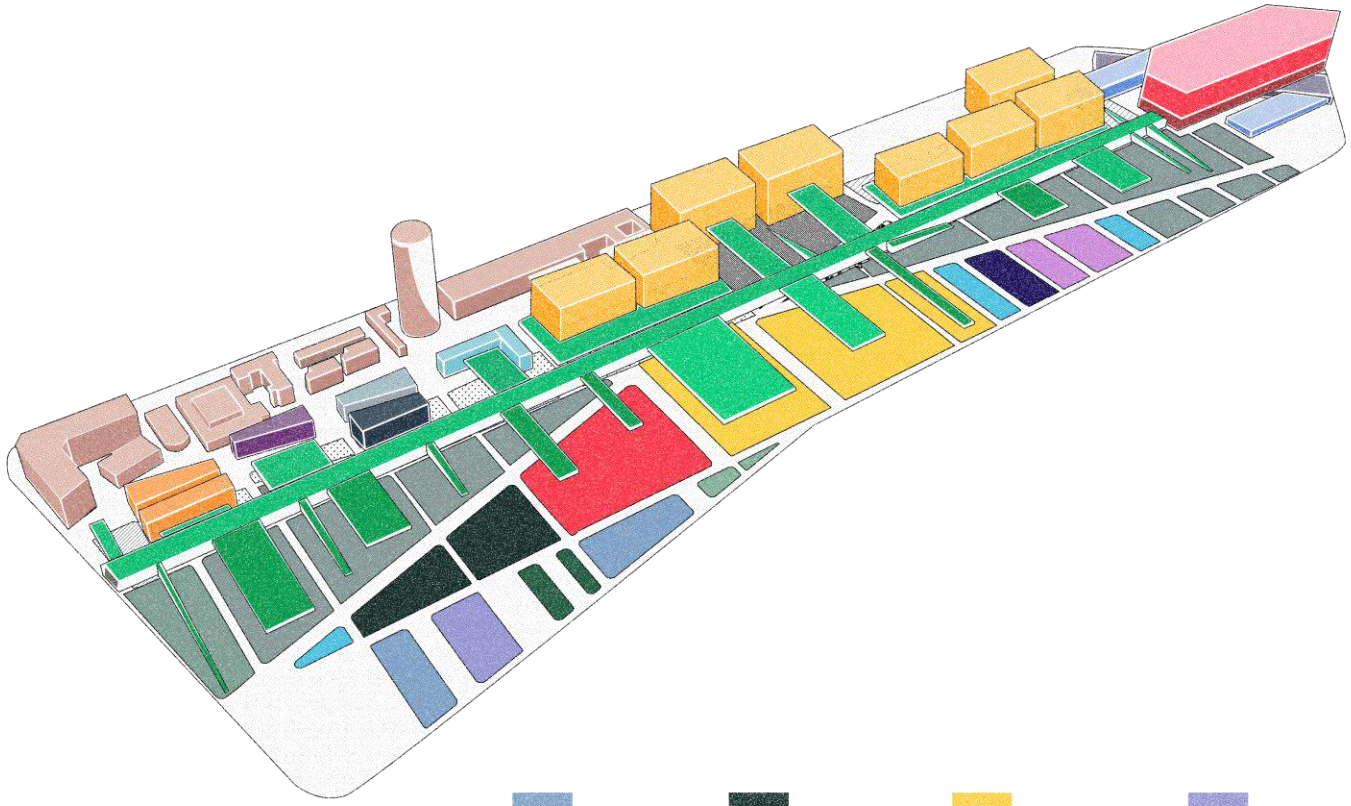




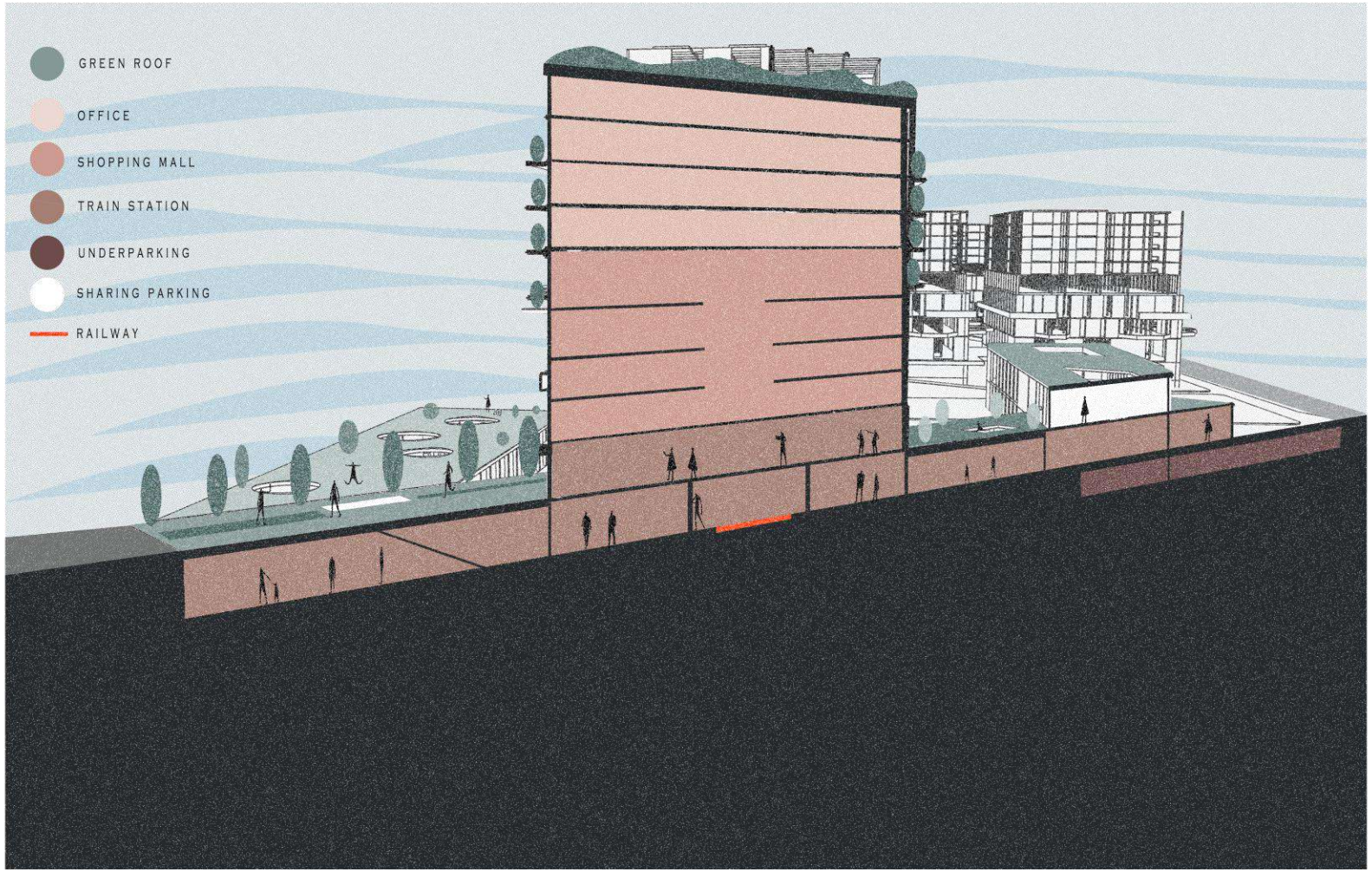
EXISTING BUILDING
OFFICE
TRAIN STATION
ENTRANCE
LIBRARY
EMPLOYMENT ASSISTANCE
SHCOOL
OLYMPIC VILLAGE
SHOPPING MALL
CONNECTION
RECREATION CENTERS
CINEMAS

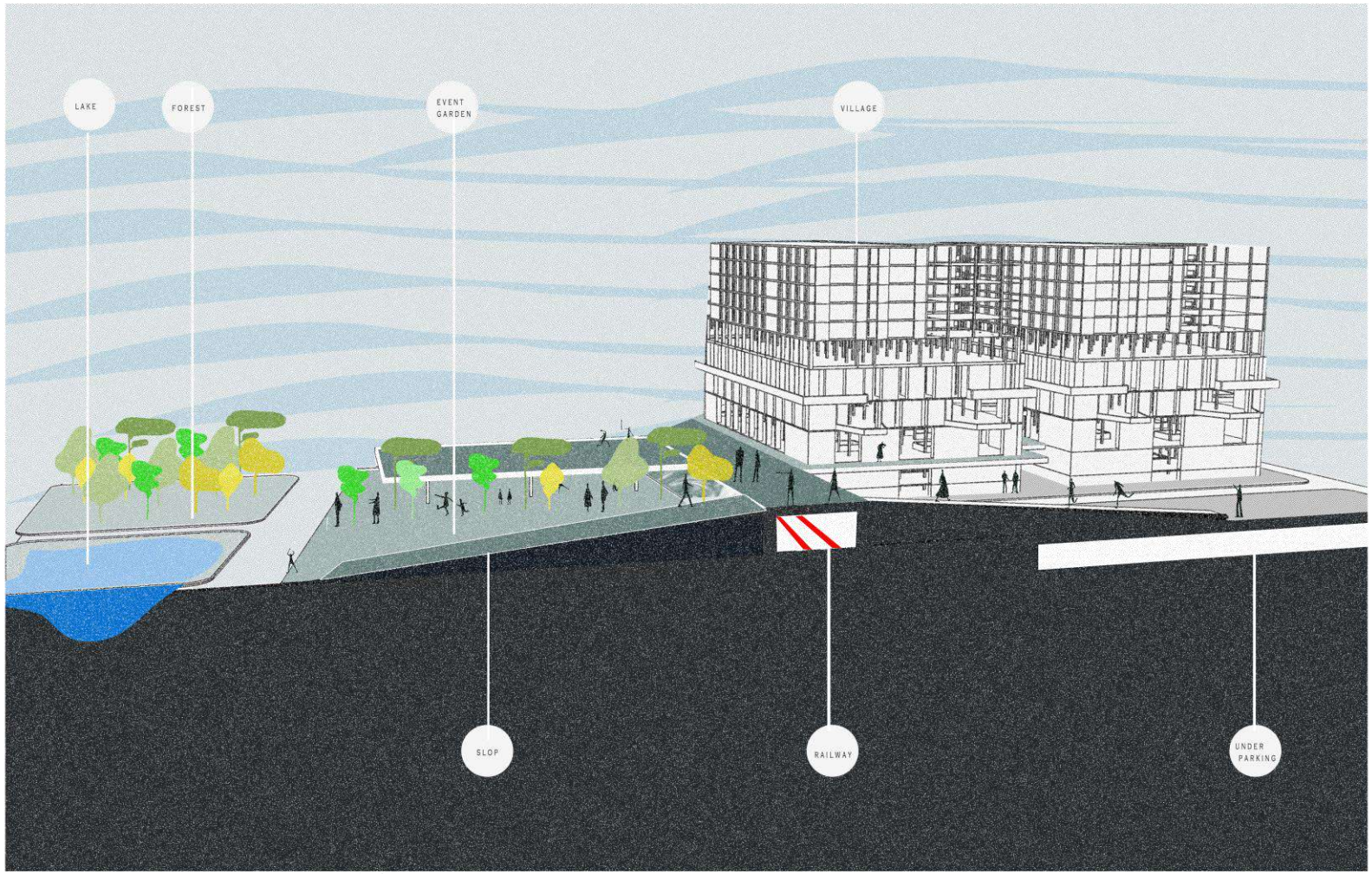
COVER

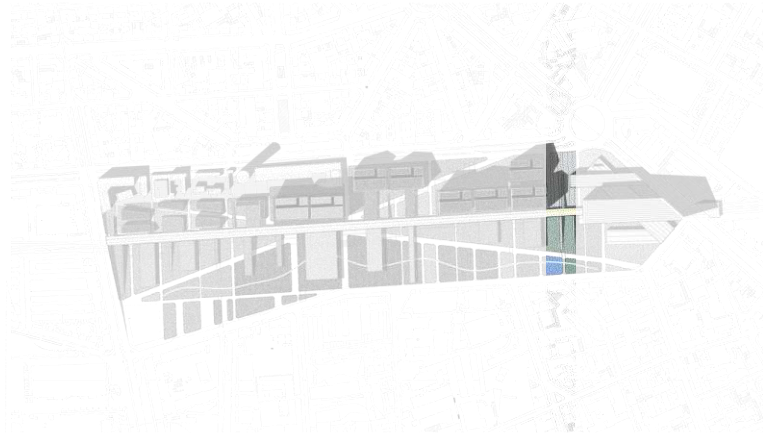
FUNCTION SYSTEM

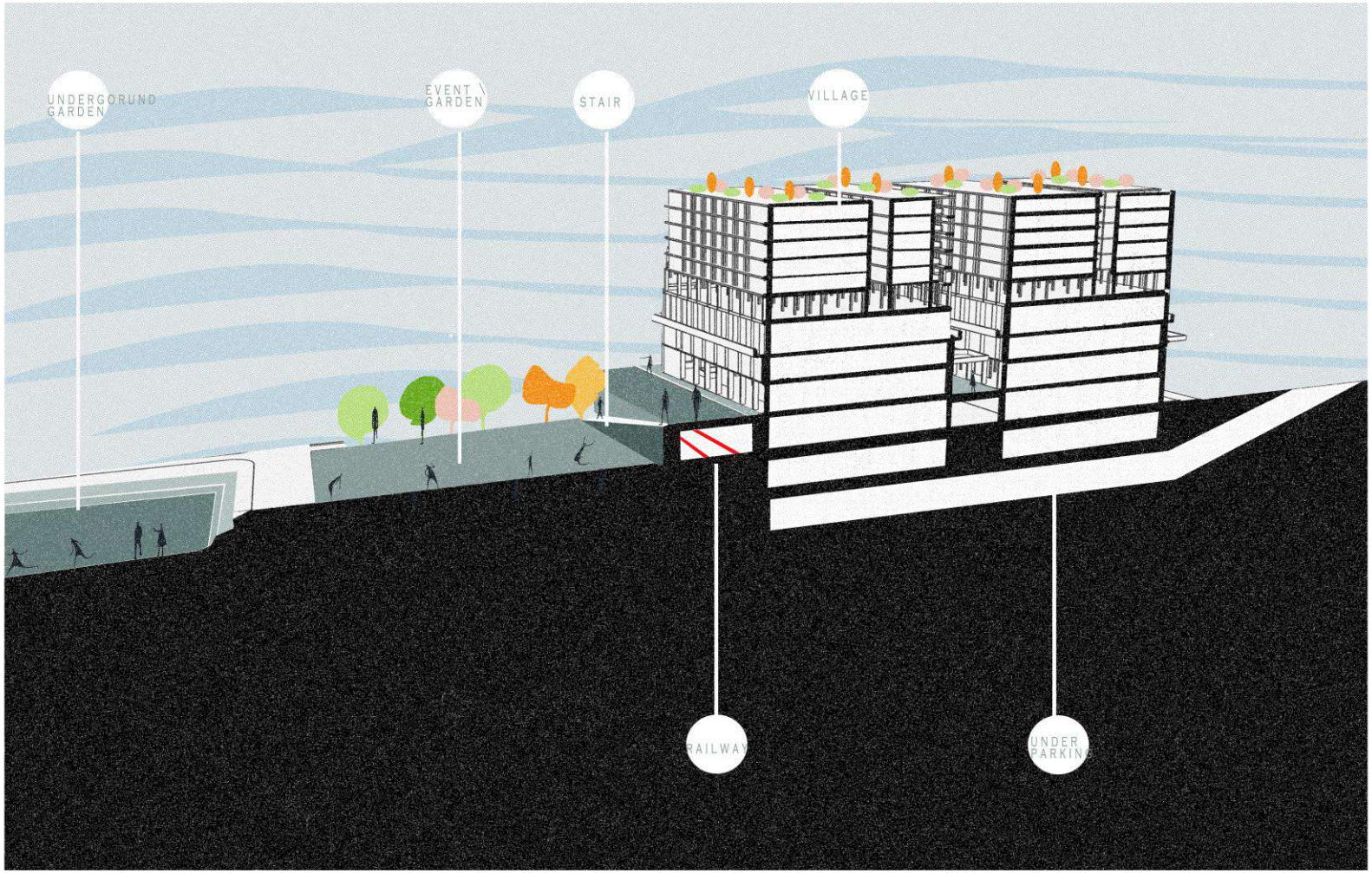


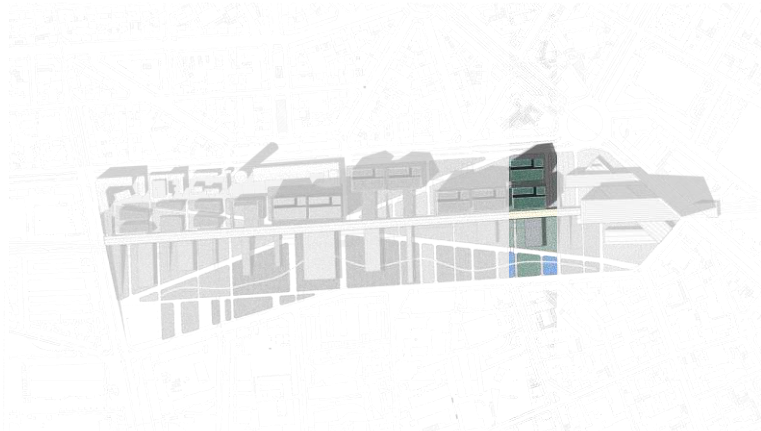
WIND ENERGY
GREEN HOUSE
EVENT GARDEN
DOG PARK
FARMLAND
GREEN GARDEN
HILL GARDEN
HILL GARDEN
LAKE
UNDERGROUND GARDEN

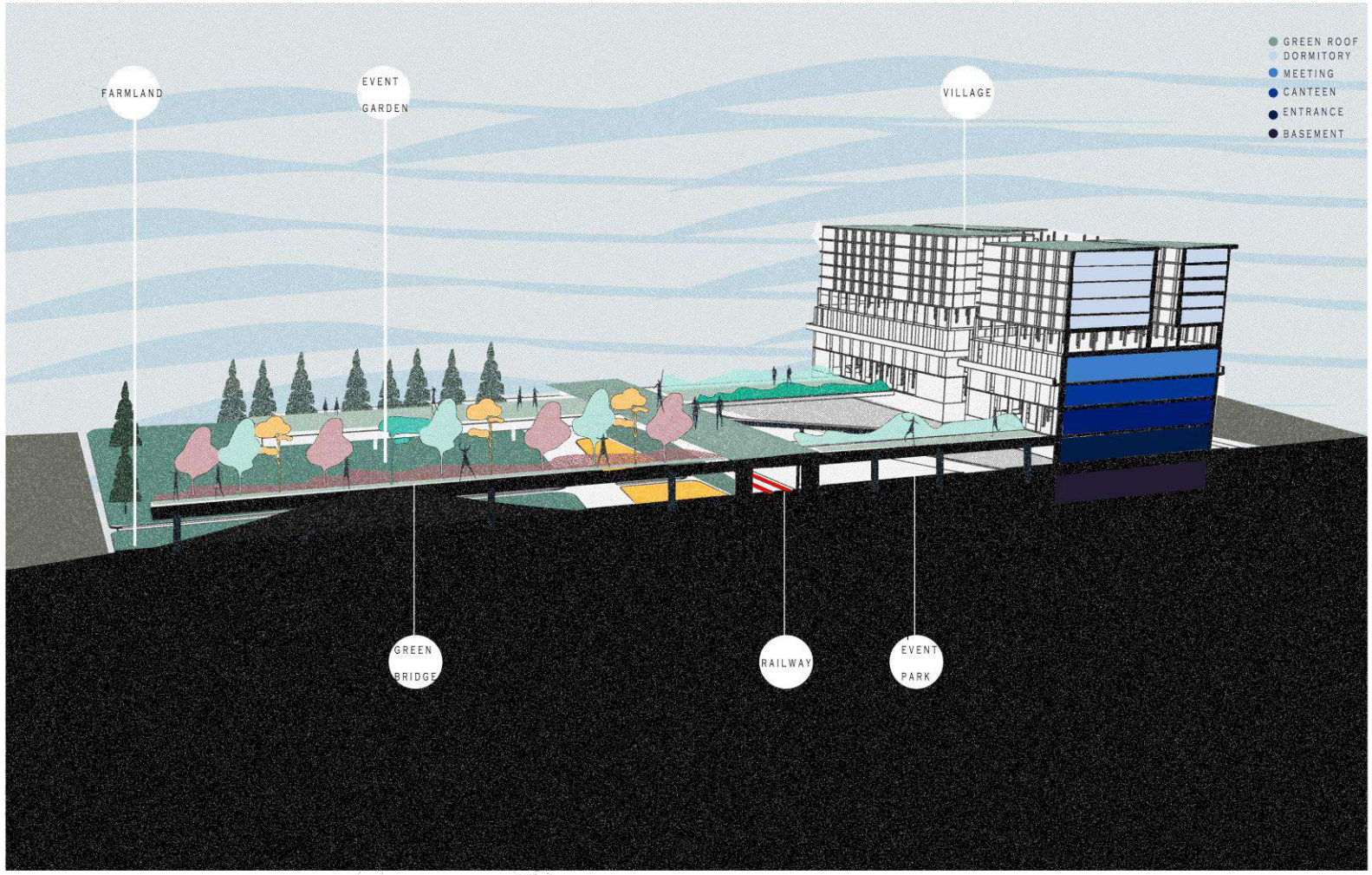

GREEN ROOF
OFFICE
SHOPPING MALL
TRAIN STATION
UNDERPARKING
SHARING PARKING
RAILWAY

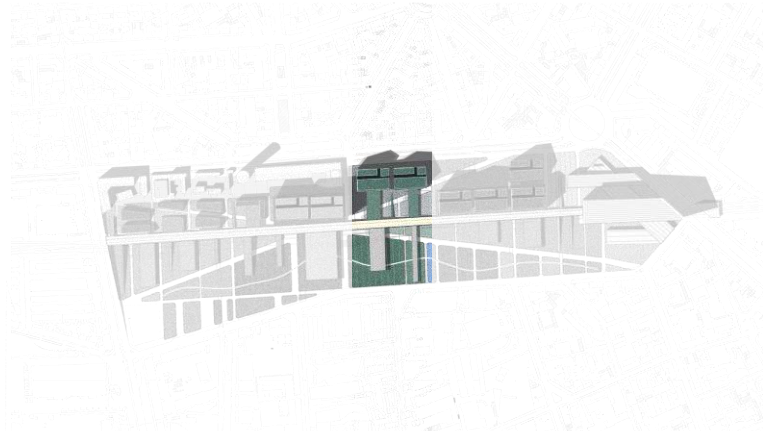

LAKE
FOREST
EVENT GARDEN
VILLAGE
SLOP
RAILWAY
UNDER PARKING

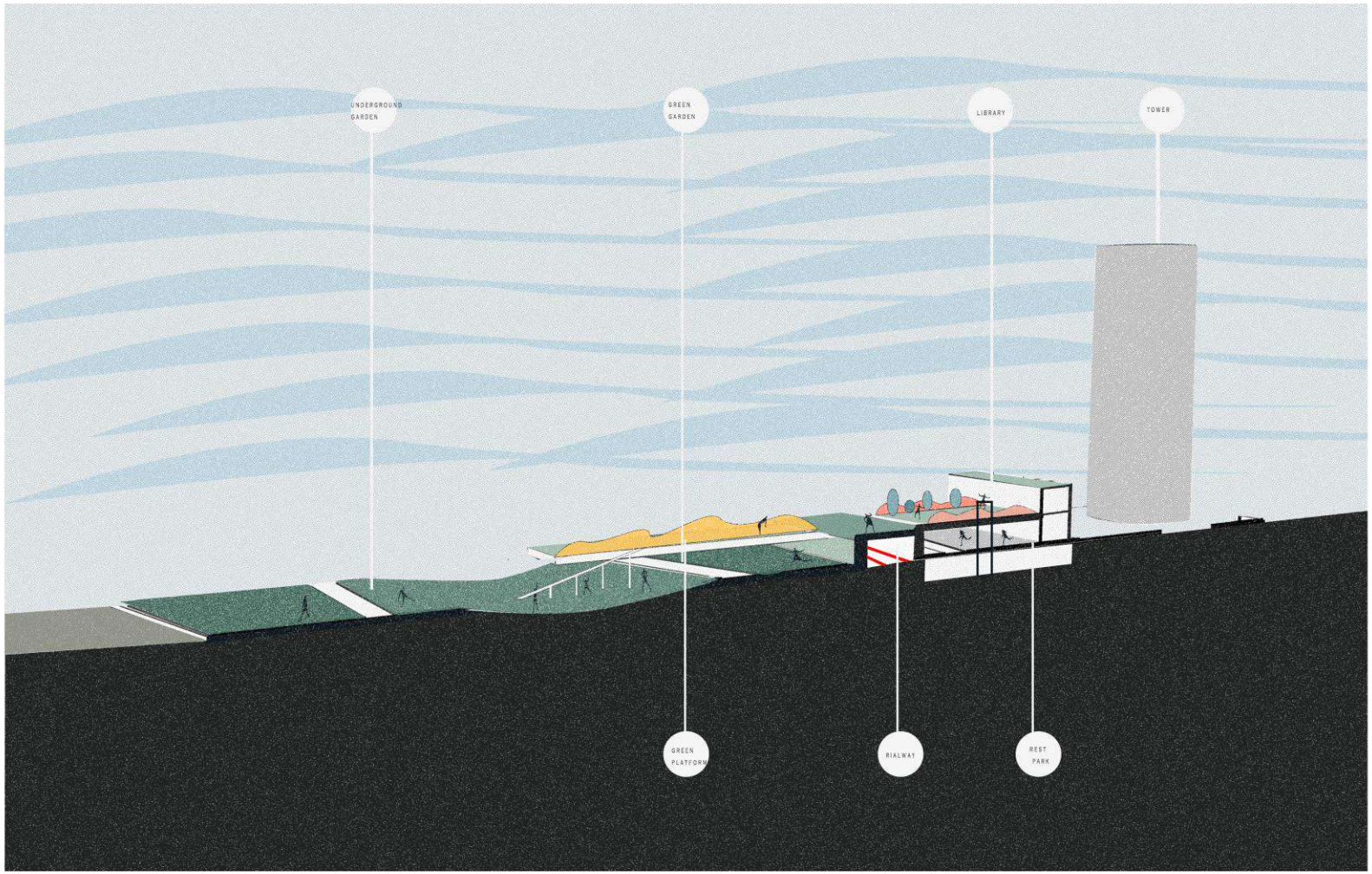


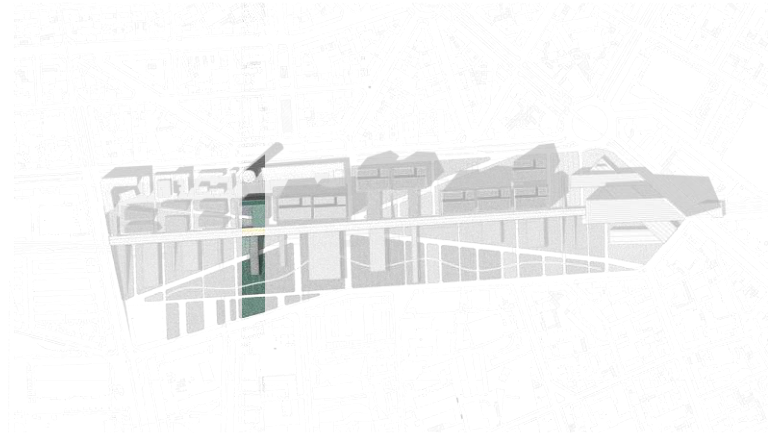

UNDERGORUND GARDEN
EVENT GARDEN
STAIR
VILLAGE
RAILWAY
UNDER PARKING

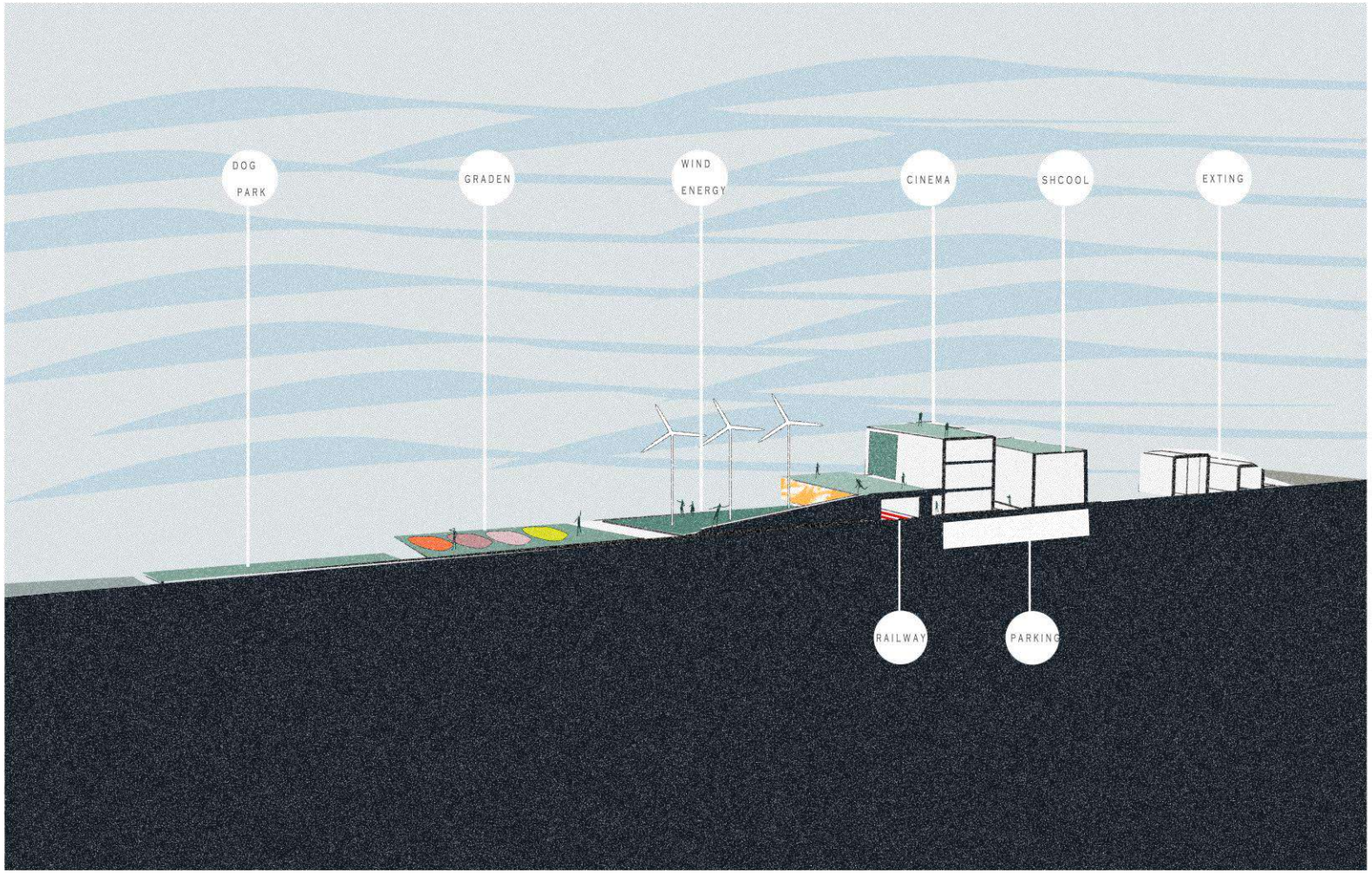


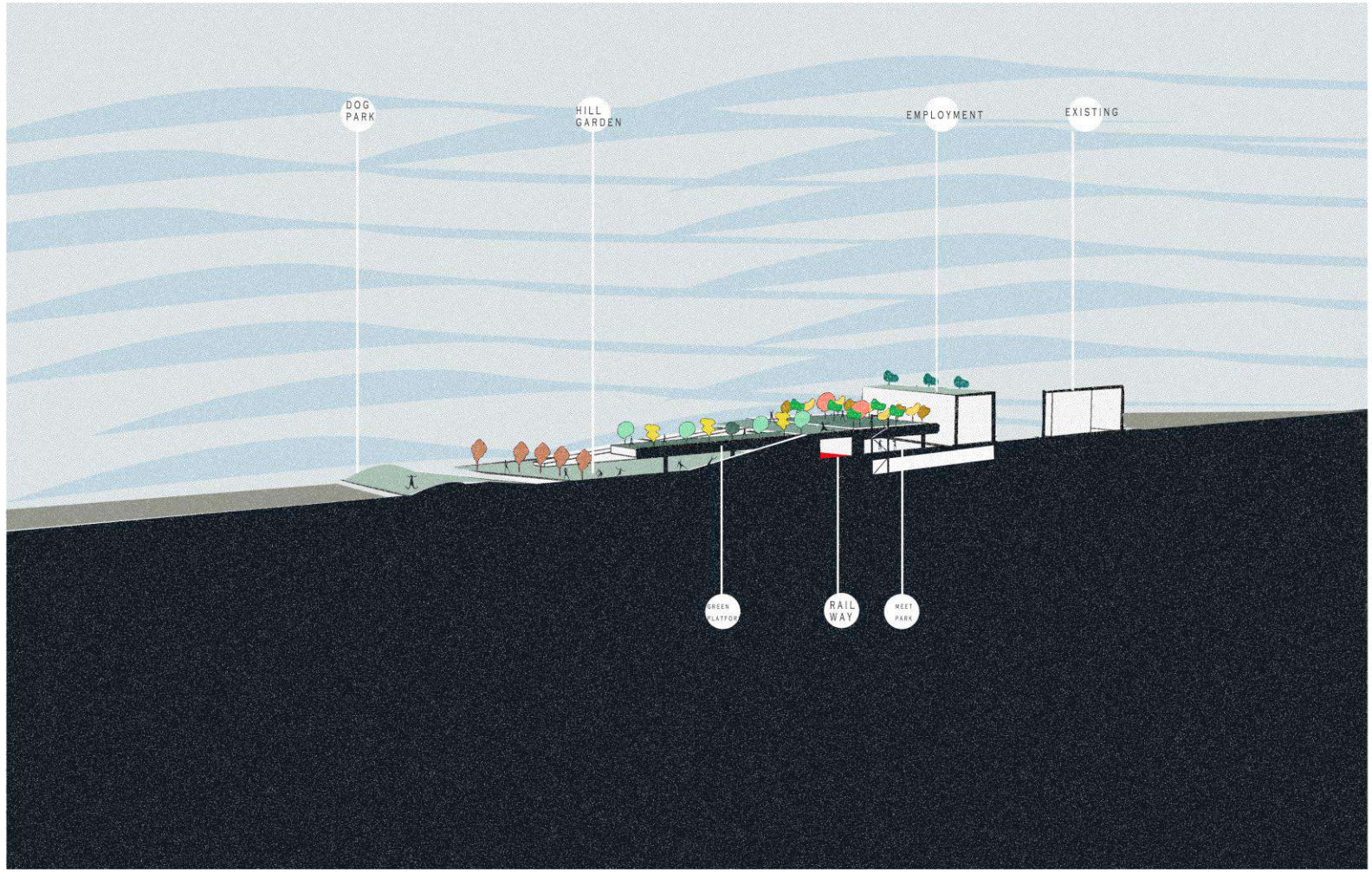

FARMLAND
EVENT GARDEN
VILLAGE
GREEN ROOF
DORMITORY
MEETING
CANTEEN
ENTRANCE
BASEMENT
GREEN BRIDGE
RAILWAY
EVENT PARK

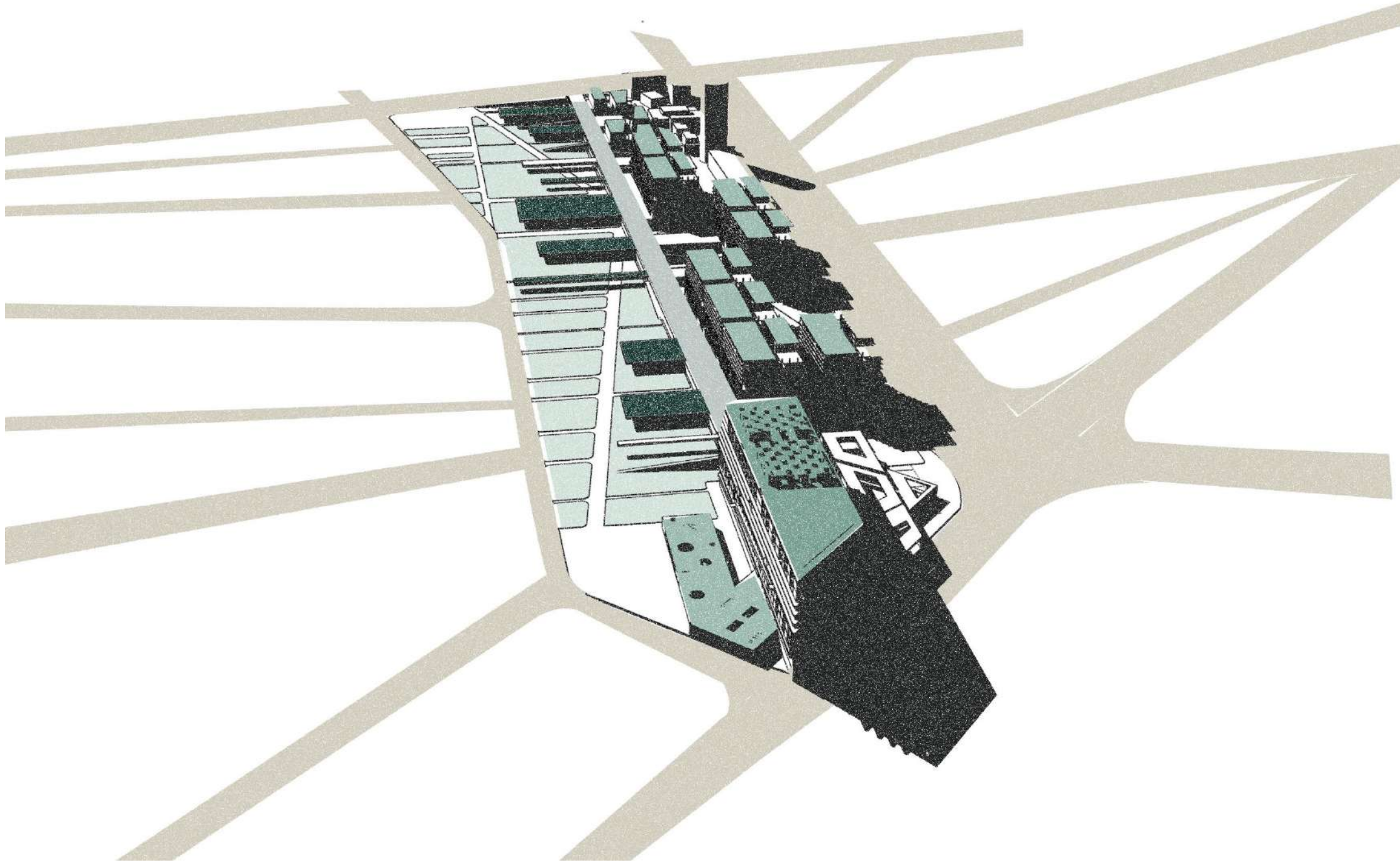



UNDERGROUND GARDEN
GREEN GARDEN
LIBRARY
TOWER
GREEN PLATFORM
RIALWAY
REST PARK

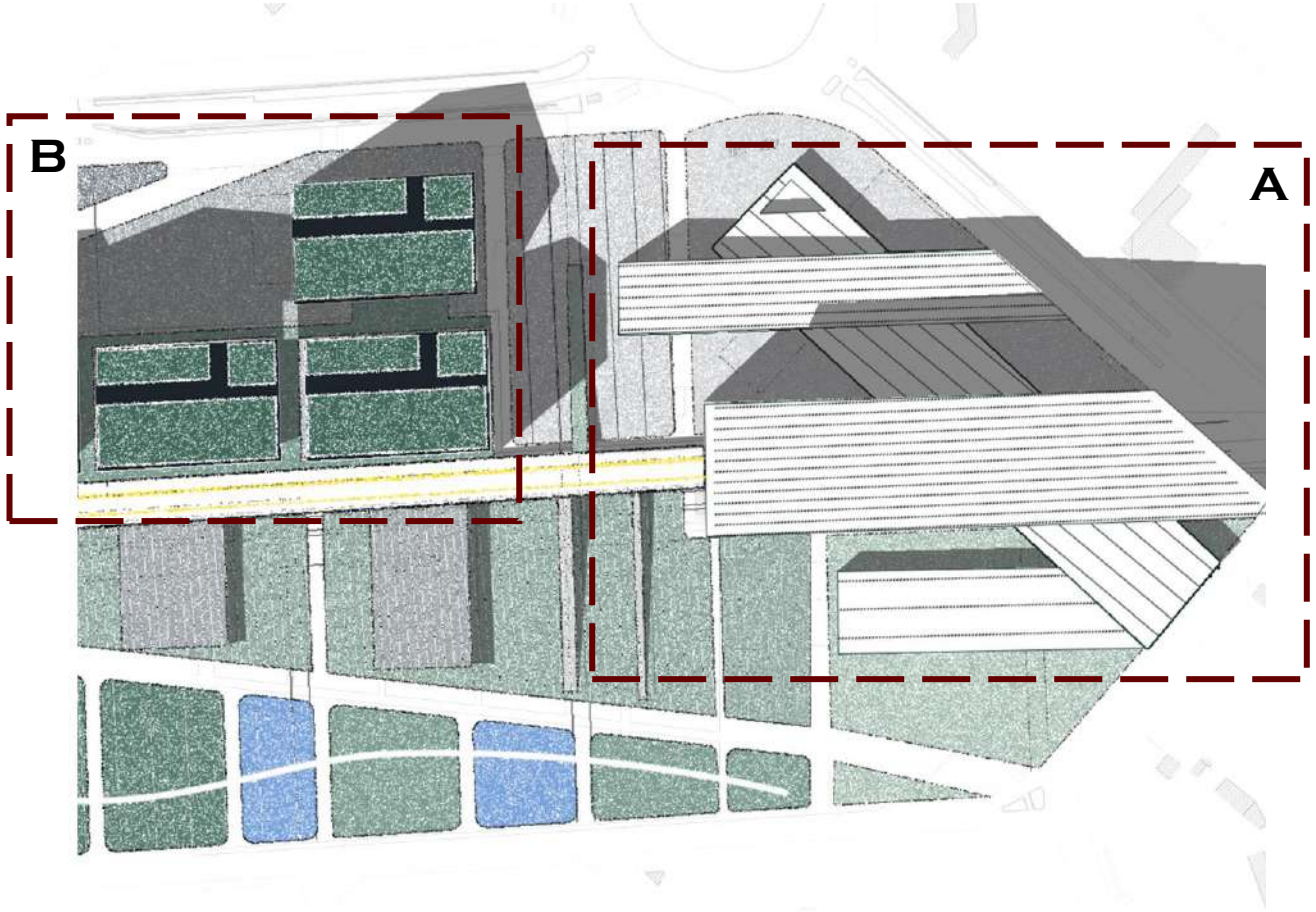



DOG
PARK
GRADEN
WIND
ENERGY
CINEMA
SHCOOL
EXTING
RAILWAY
PARKING


DOG PARK
HILL GARDEN
EMPLOYMENT
EXISTING
GREEN PLATFOR
RAIL WAY
MEET PARK



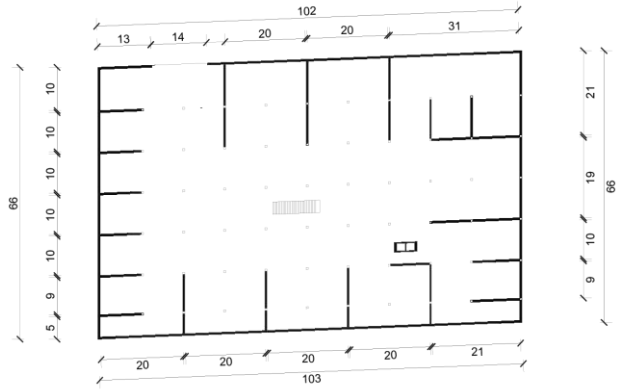
Master plane 1:500



B OLYMPIC VILLAGE **A** NEW TRAIN STATION

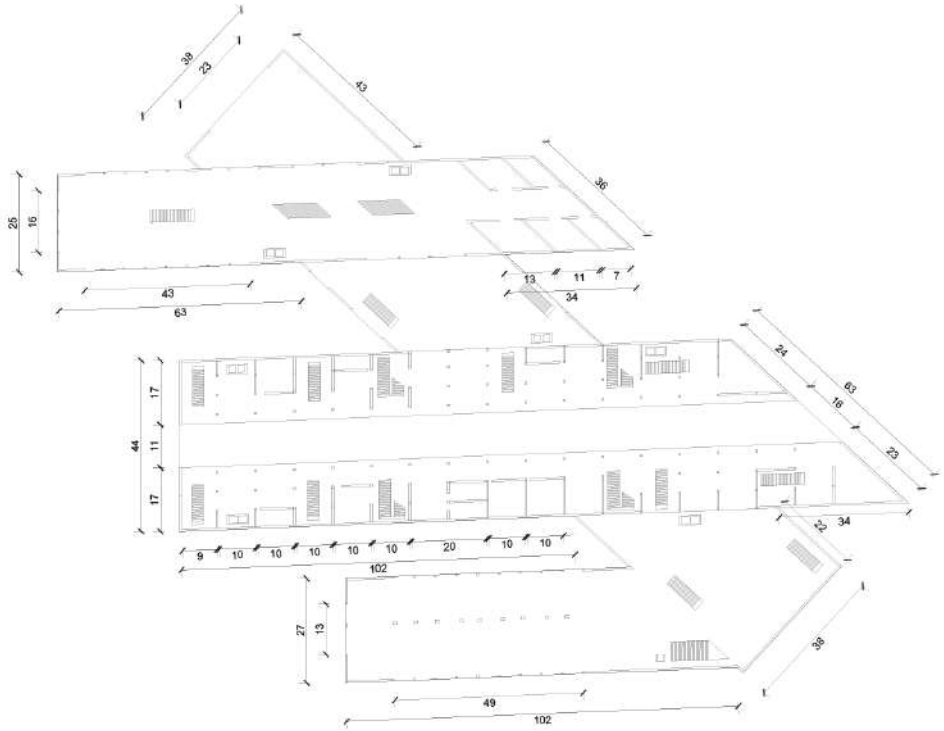
BUILDING A

UNDERGROUND GARAGE

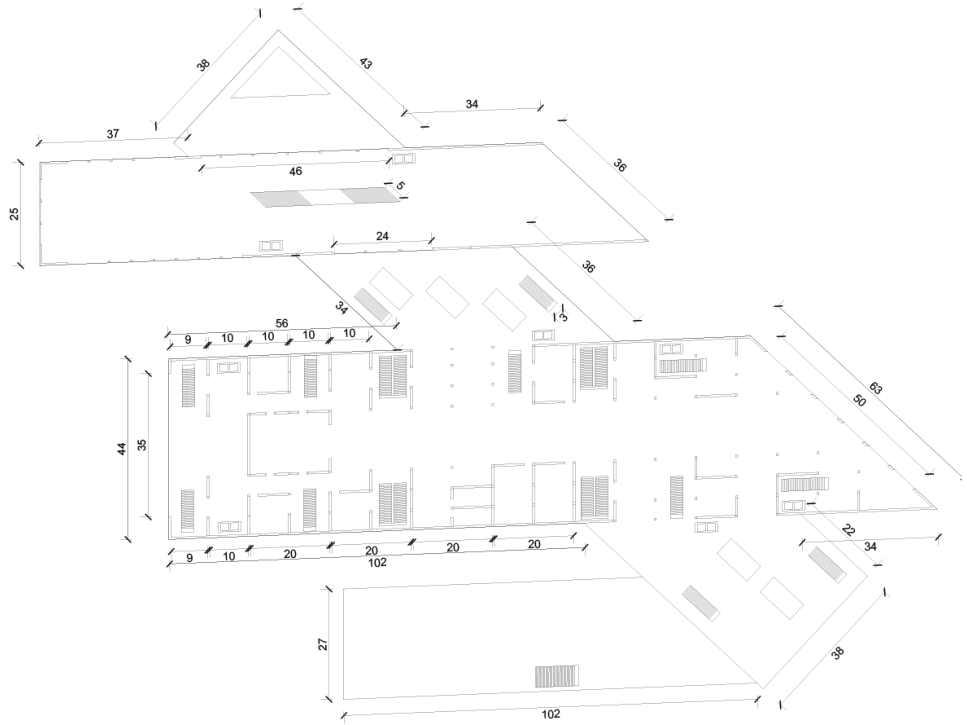


-1 FLOOR

TRAIN STAION

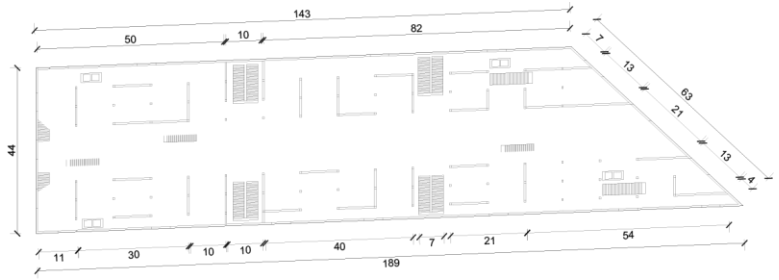


0 FLOOR

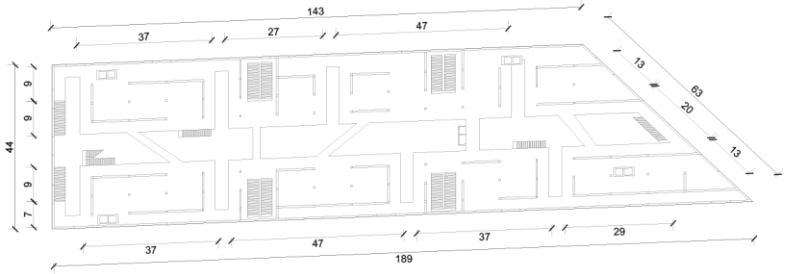


1 FLOOR

SHOPPING MALL

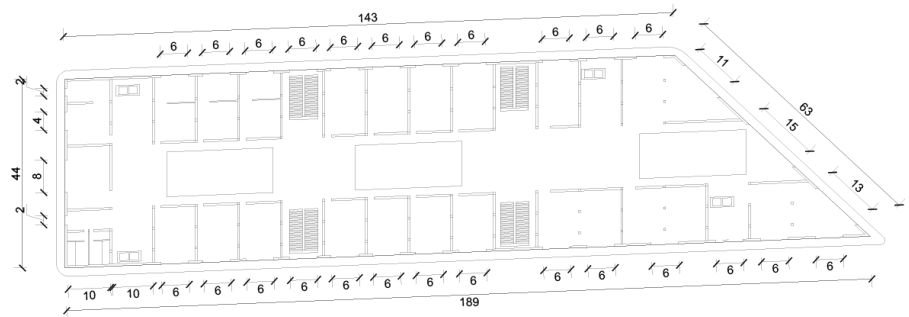


2 FLOOR



3-6 FLOOR

OFFICE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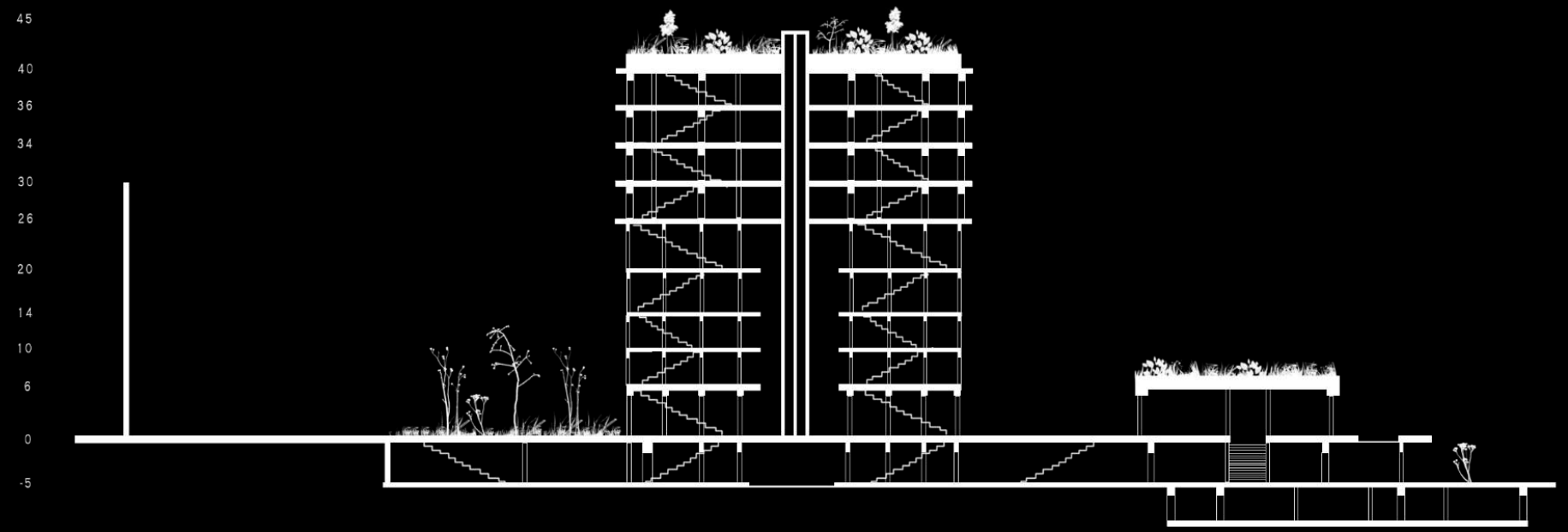
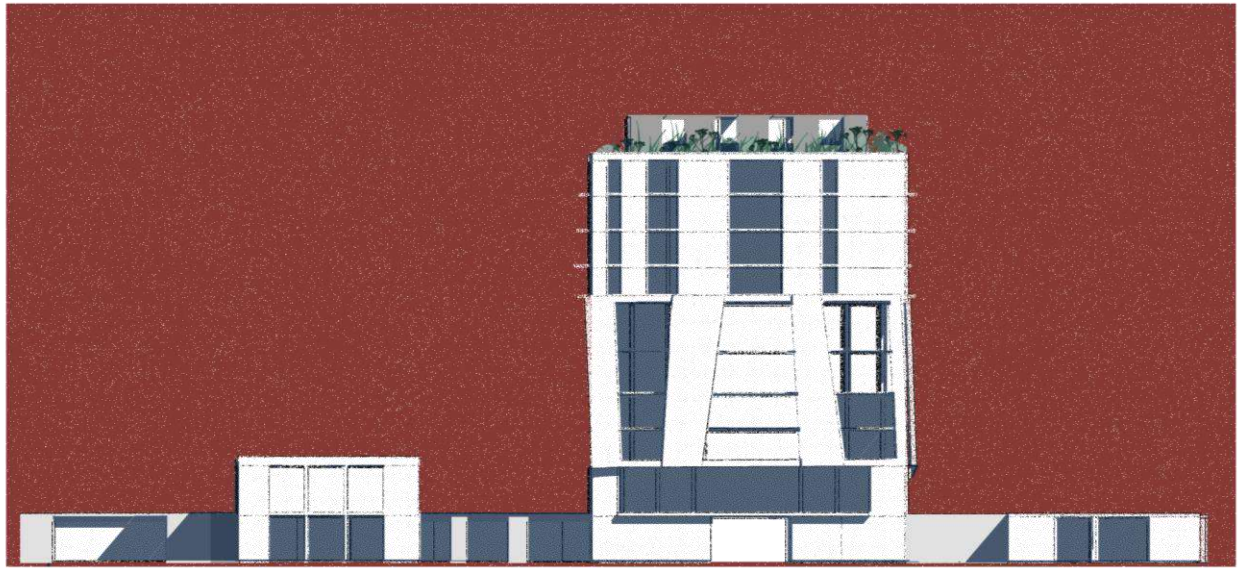
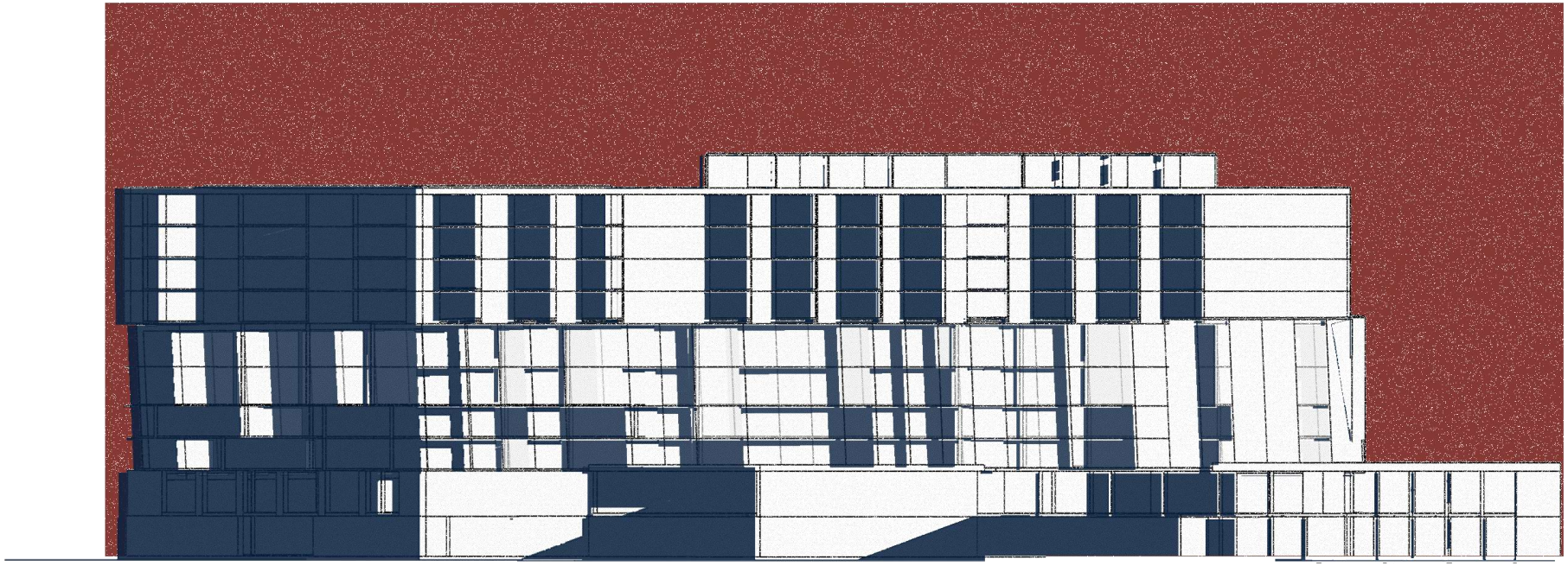
6 6 6



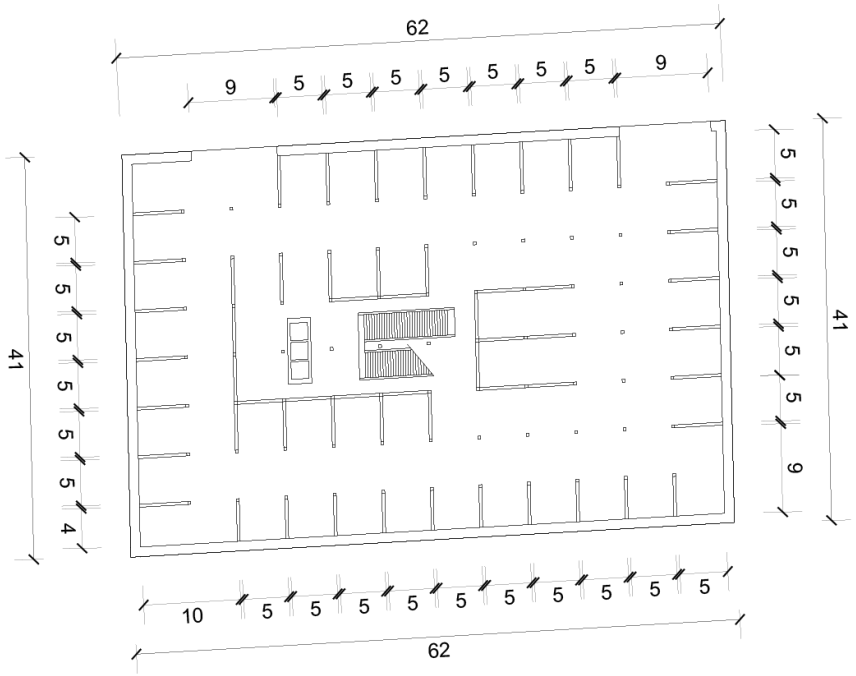
SECTION 1:500





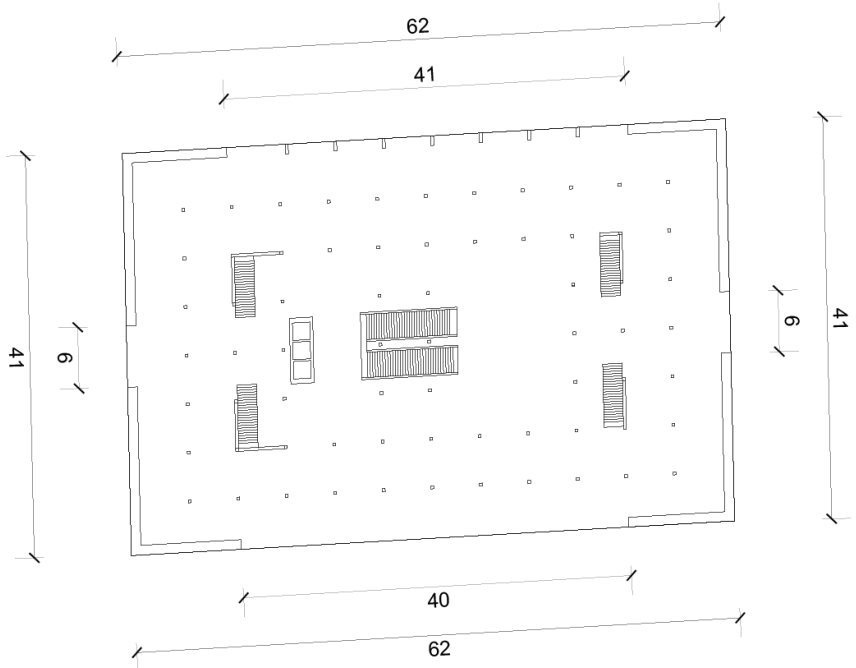
BUILDING B

BASEMENT



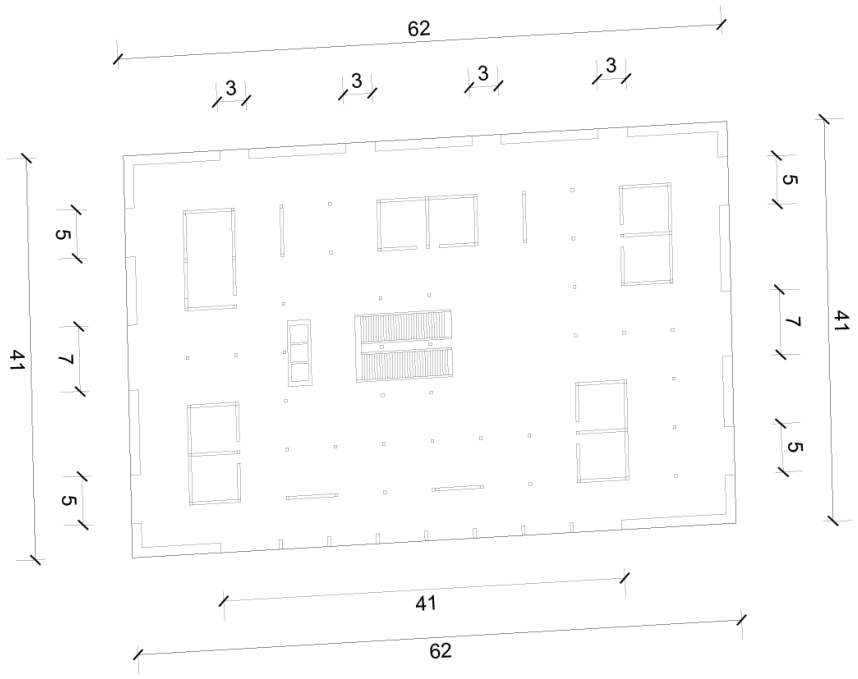
-1 FLOOR

ENTRANCE



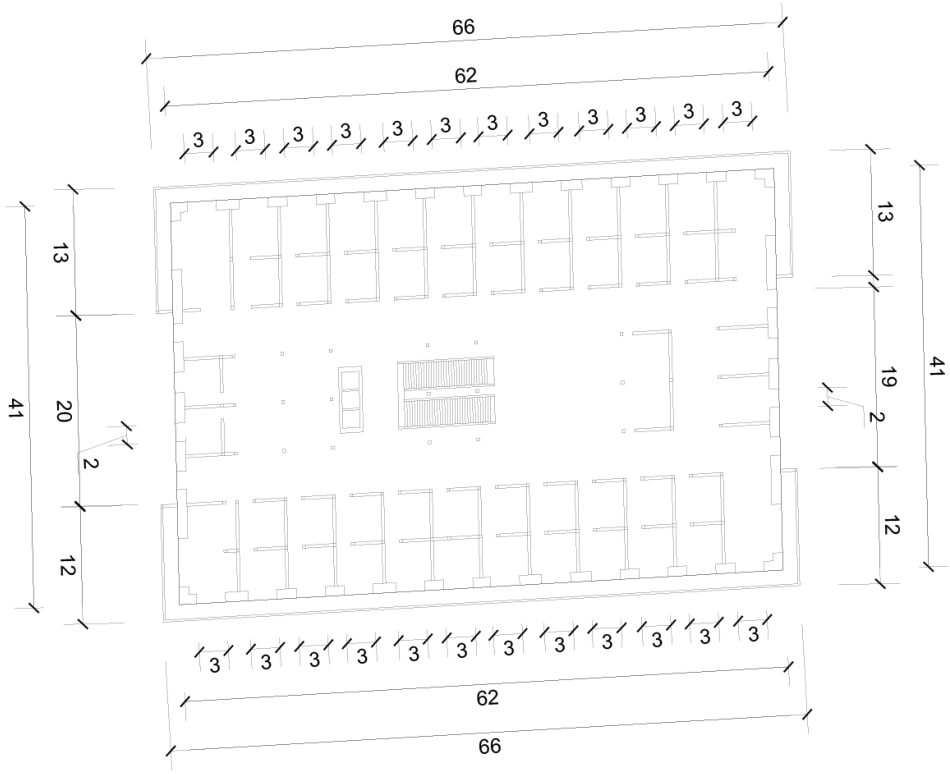
0 FLOOR

SERVING



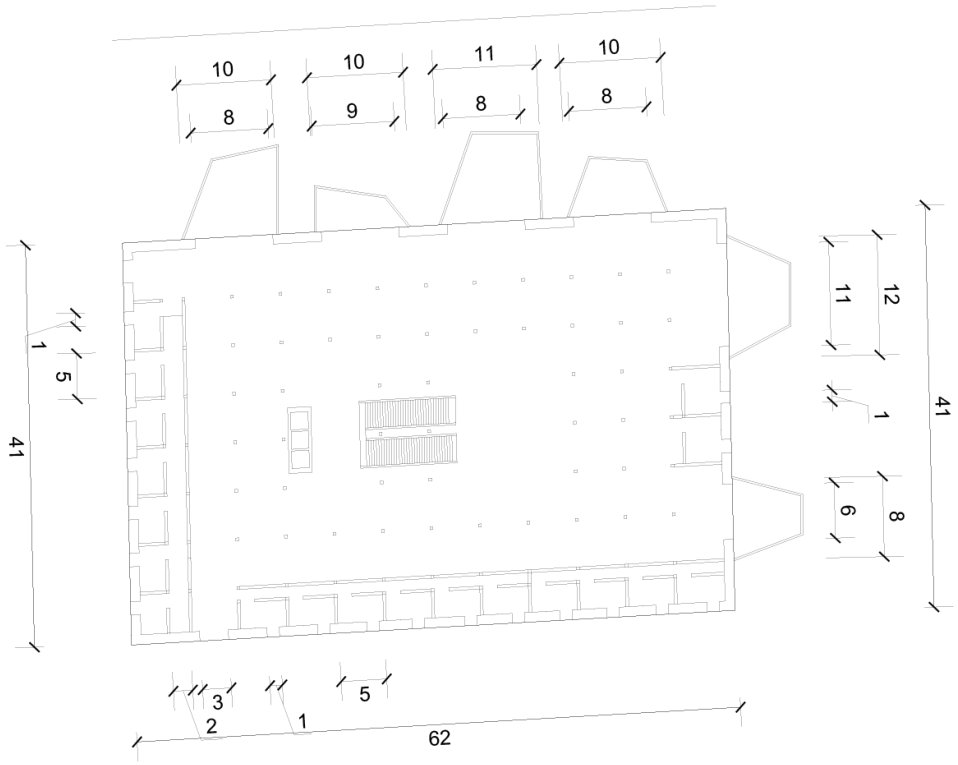
1 FLOOR

MEETING



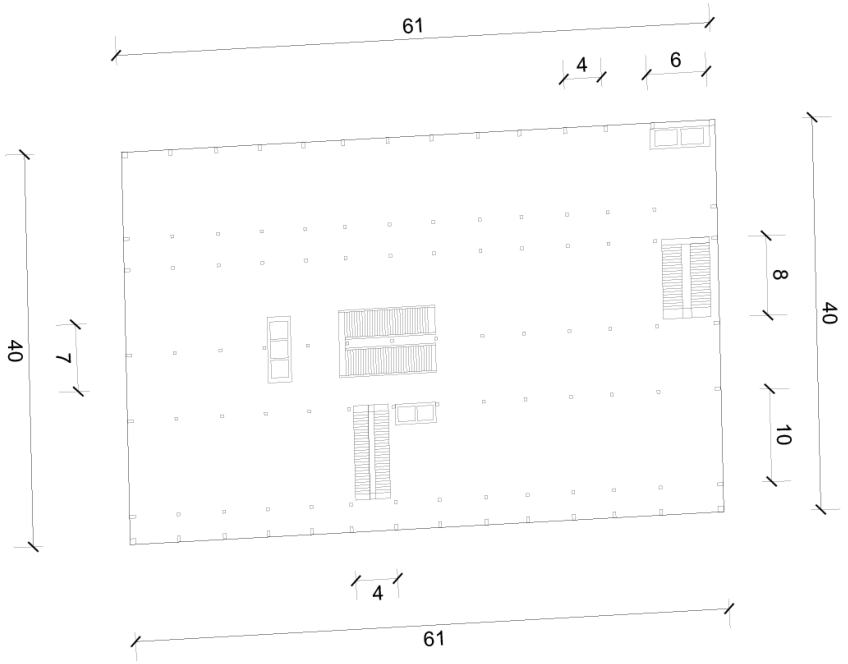
2 FLOOR

DINING HALL



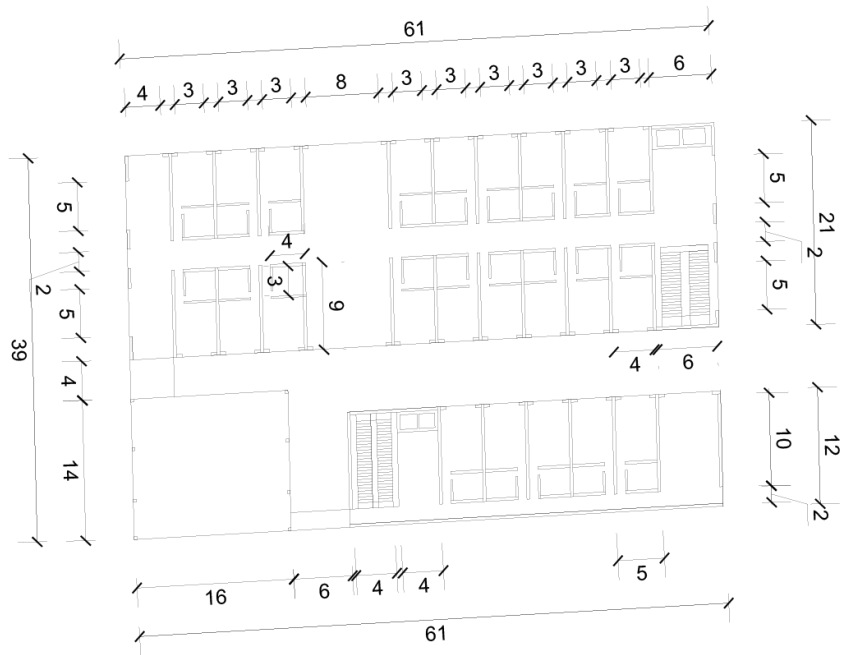
3 FLOOR

PUBLIC

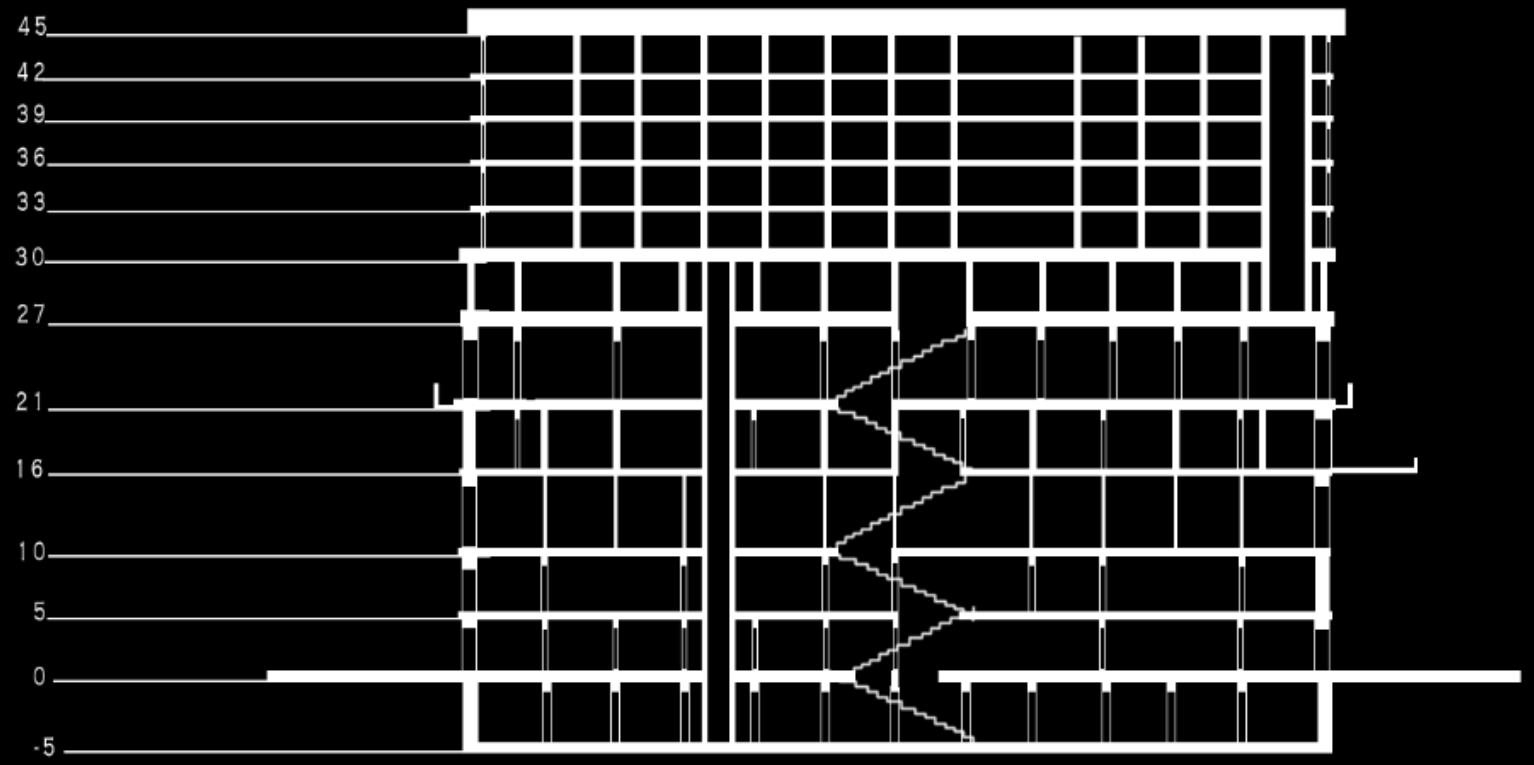
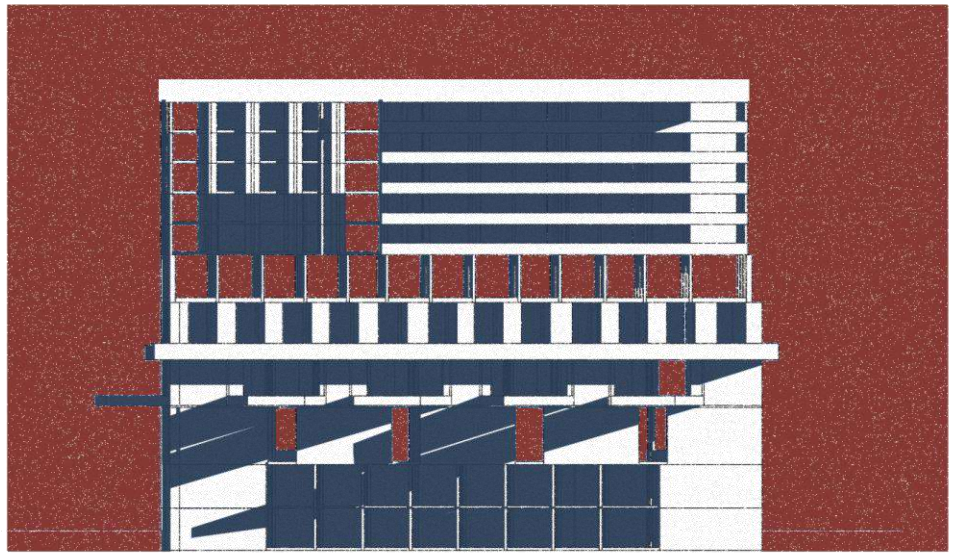
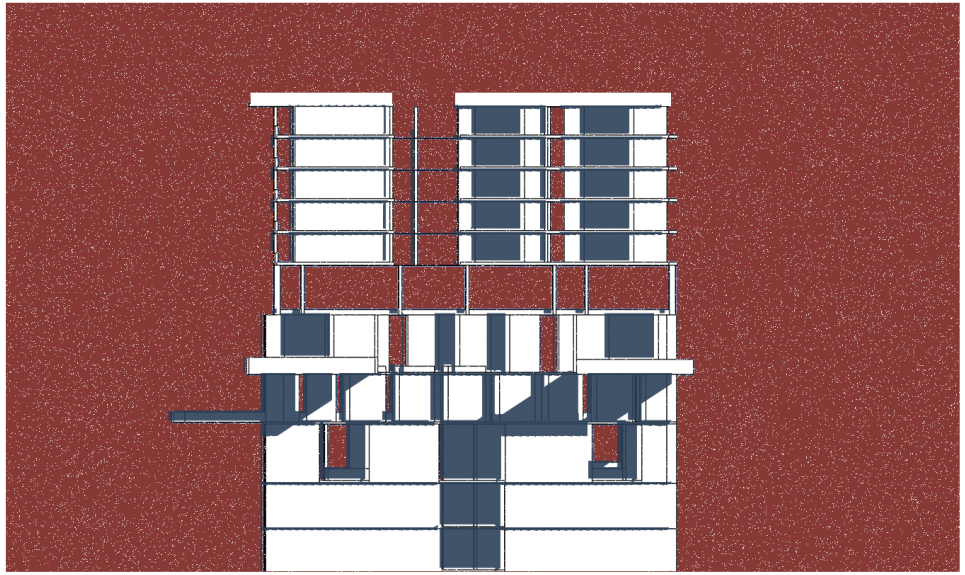
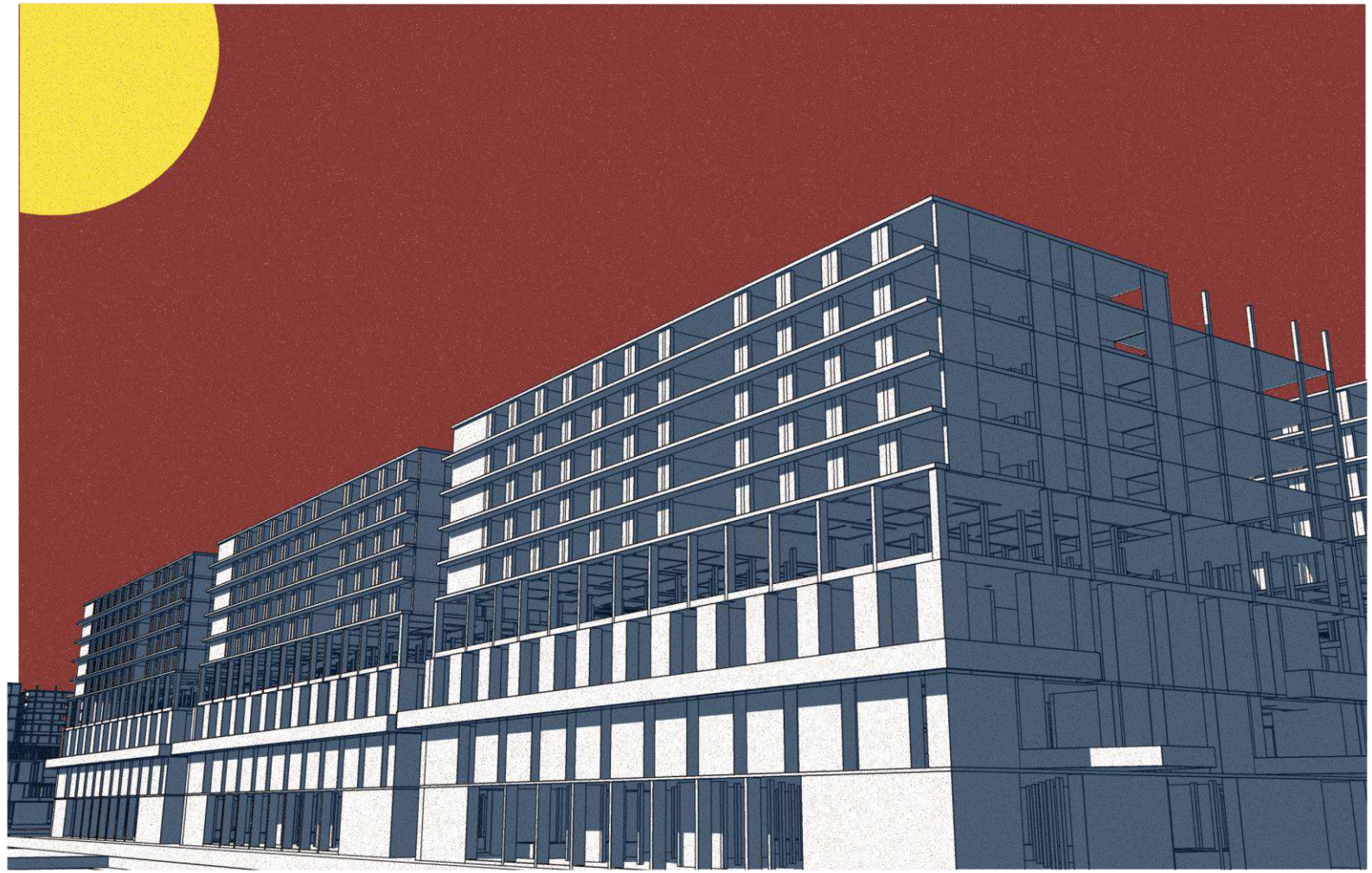


4 FLOOR

DORMITORY



5-9 FLOOR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