

YING ZHANG | PORTFOLIO

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Redefine city
train station

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01 City Train Station Renovation

Redefine City Train Station

Location: ShangHai, China

Area: 37 Ha

Individual Work

Time: 11/2019-12/2019

Instructor: Hongfei Ji

Background Intro

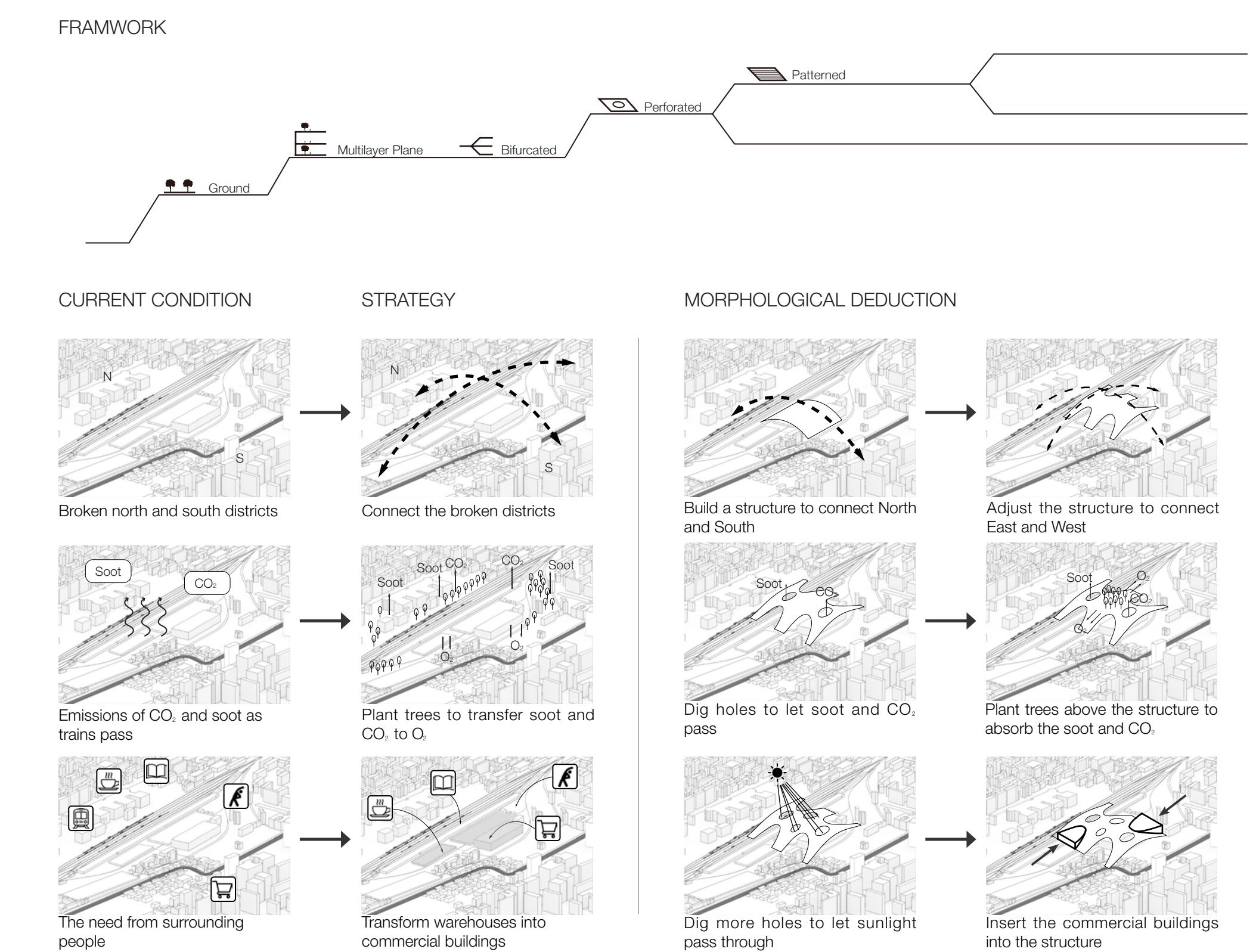
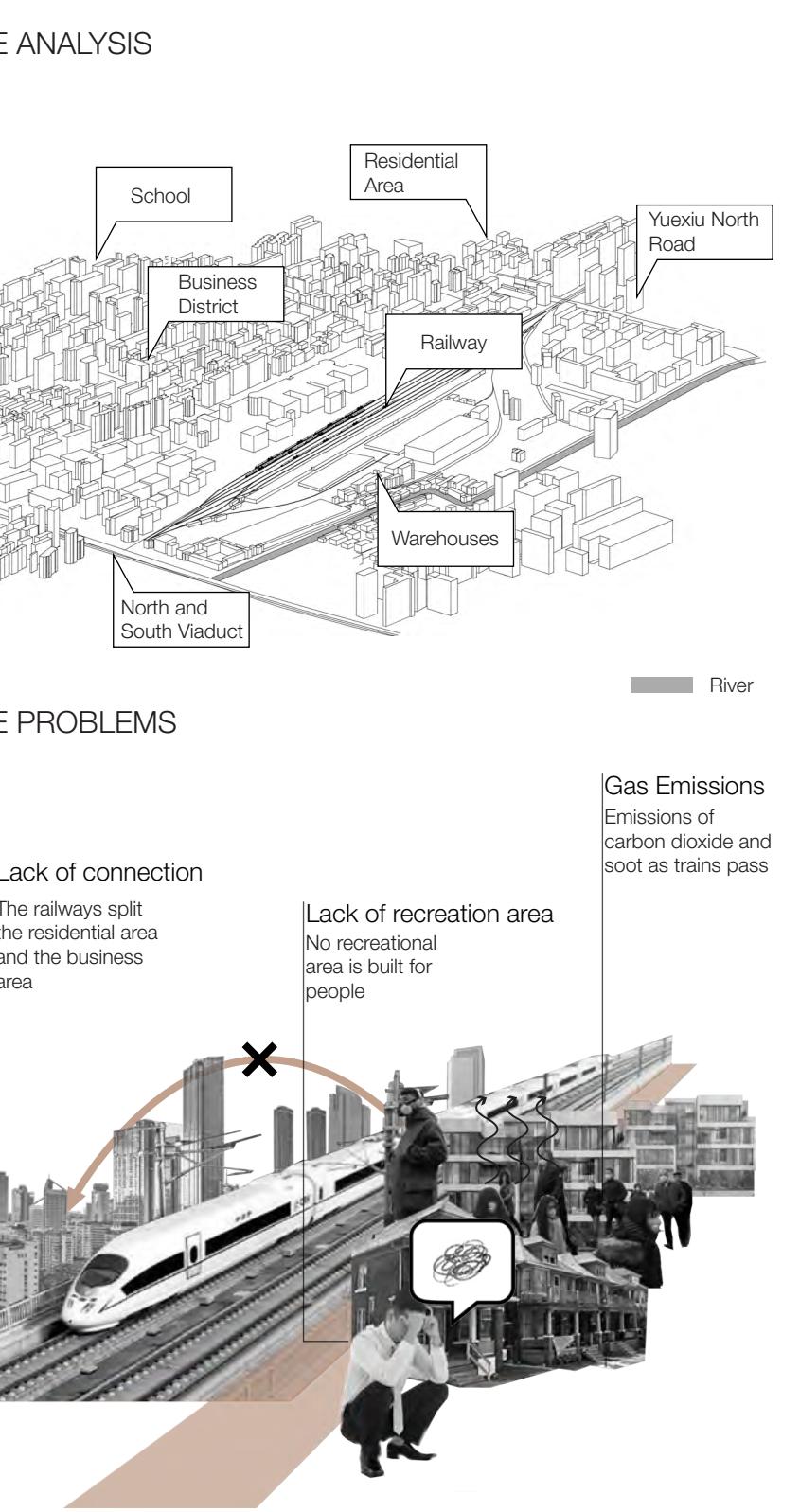
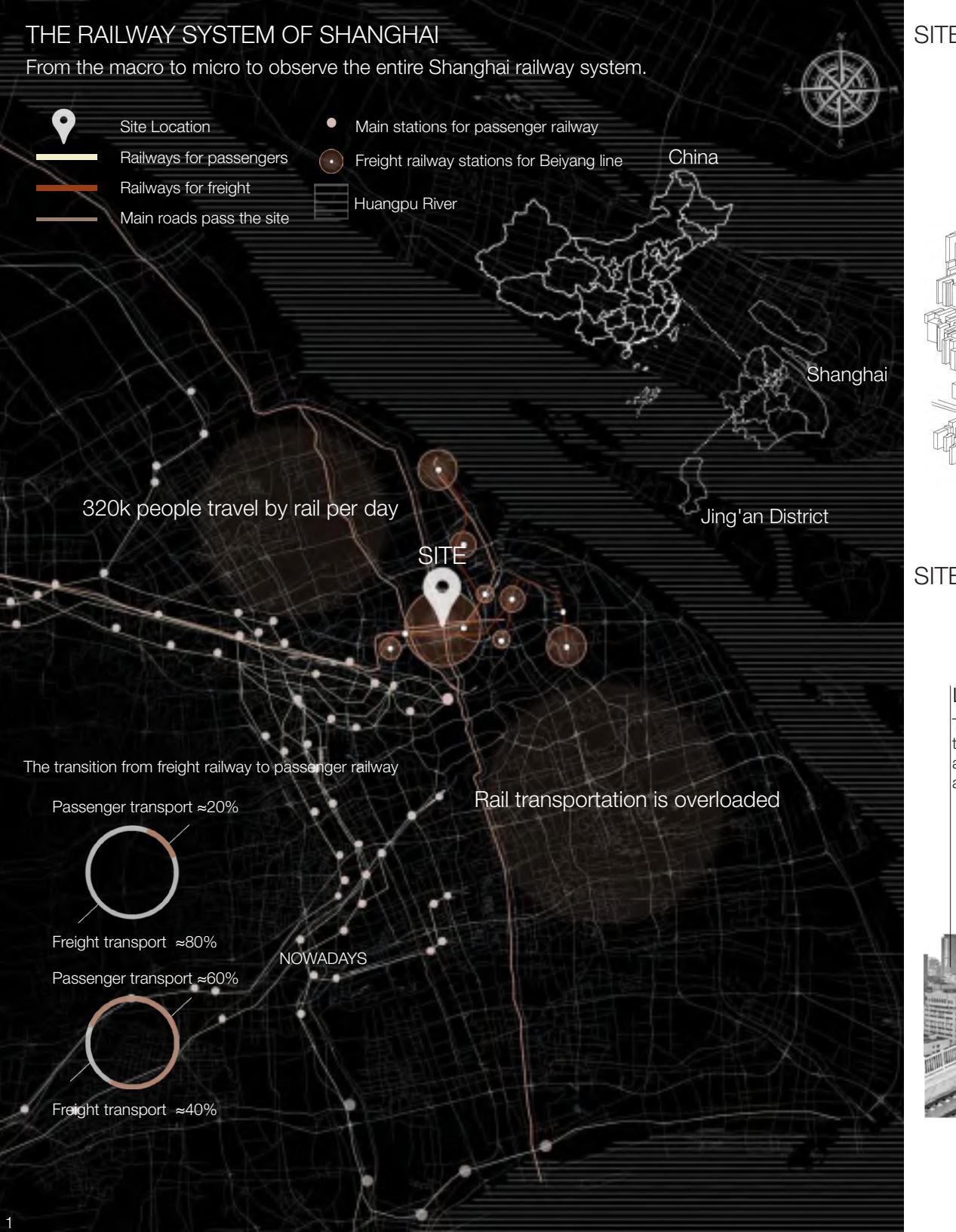
The huge traffic flow in Shanghai puts great pressure on public transportation. With the growth of traffic flow, some freight transport train lines will be transferred into passenger lines.

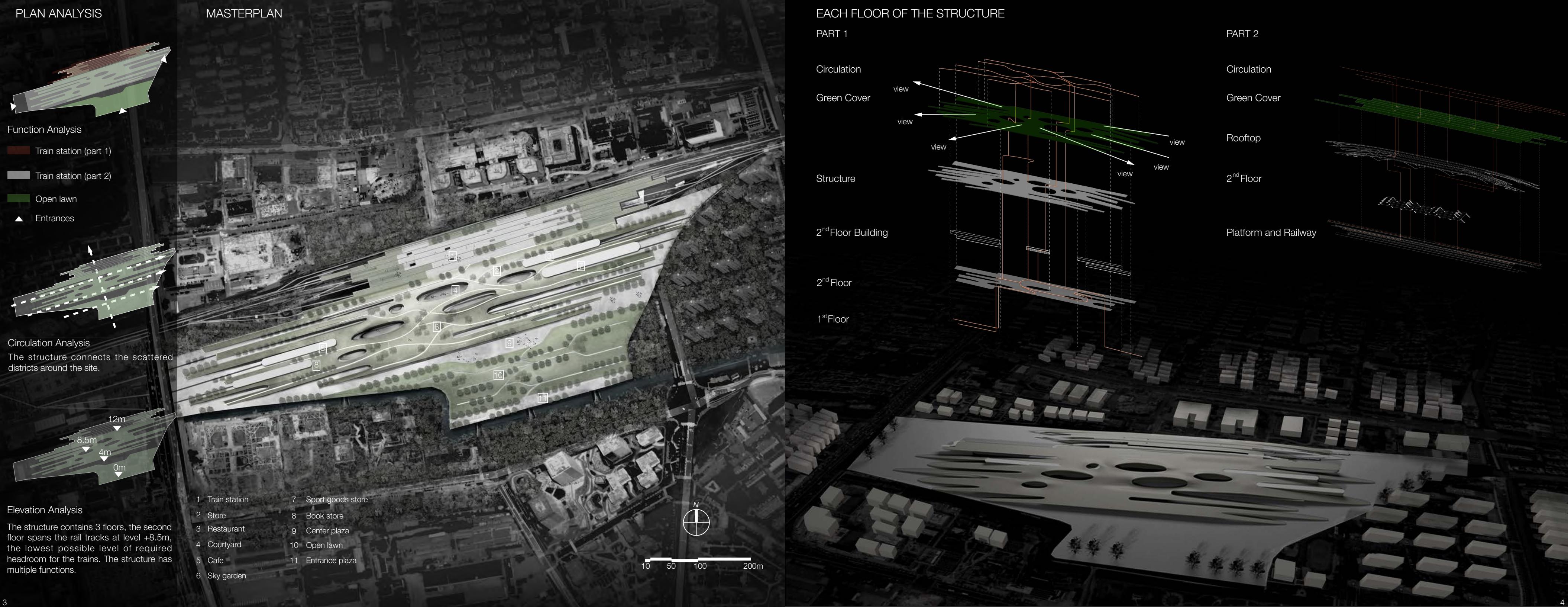
Today's train stations usually be closed architecture. However, city train station should become a city park and serves multiple function. Walking in the park, people can transfer to another district in Shanghai. In the same time, plants in the park can deal with air pollution generated by passing train.



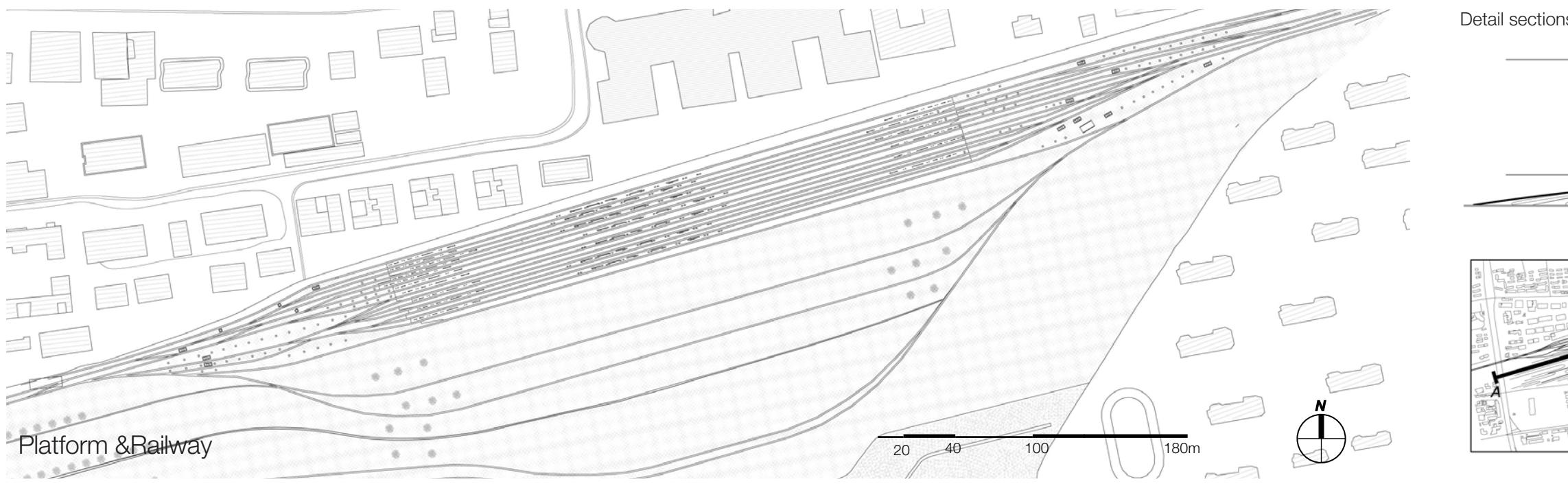
Redesign the train station to serve as a public space and a connection between districts. The station will be open to the sky, allowing people to walk through it and enjoy the surrounding environment. The station will also have a green roof, which will help to reduce the heat island effect and provide a habitat for local flora and fauna. The station will be connected to a network of pedestrian paths and bike lanes, making it easier for people to get around the city. The station will also have a variety of amenities, such as restaurants, shops, and public art, making it a destination in itself.

The station will be designed to be energy efficient, using solar panels and wind turbines to generate power. The station will also have a water recycling system, which will help to conserve water. The station will be a hub for public transportation, with buses, subways, and bicycles all sharing the same space. The station will be a symbol of the city's commitment to sustainable development and modernization.

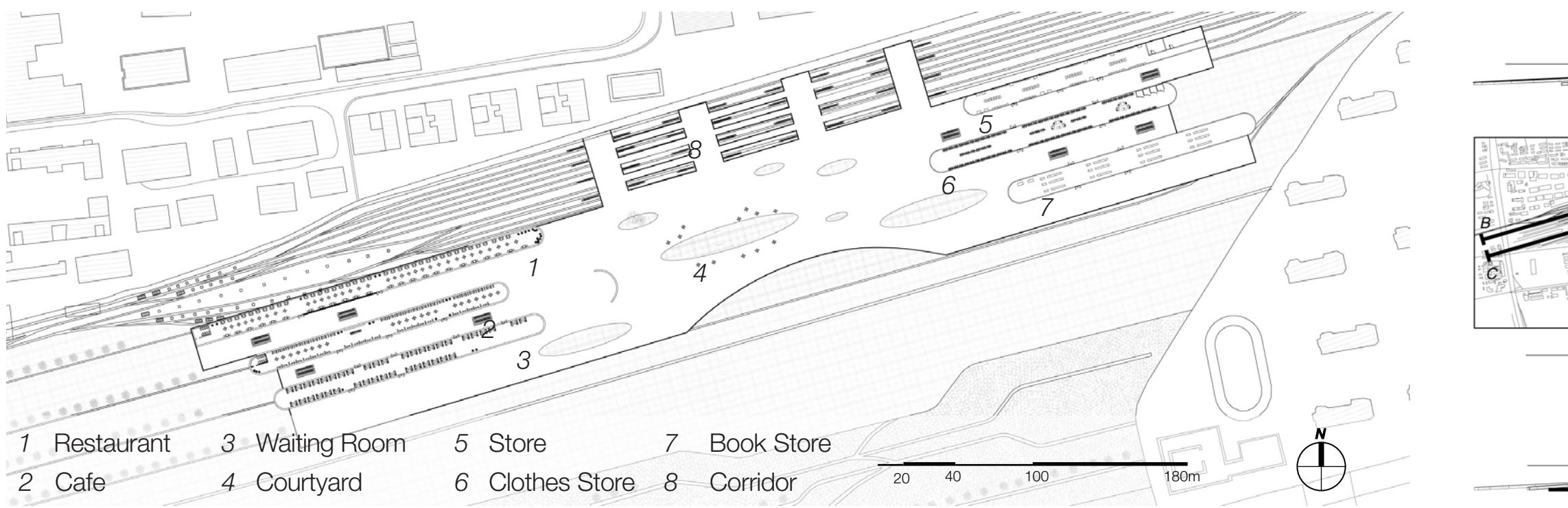




FIRST FLOOR PLAN

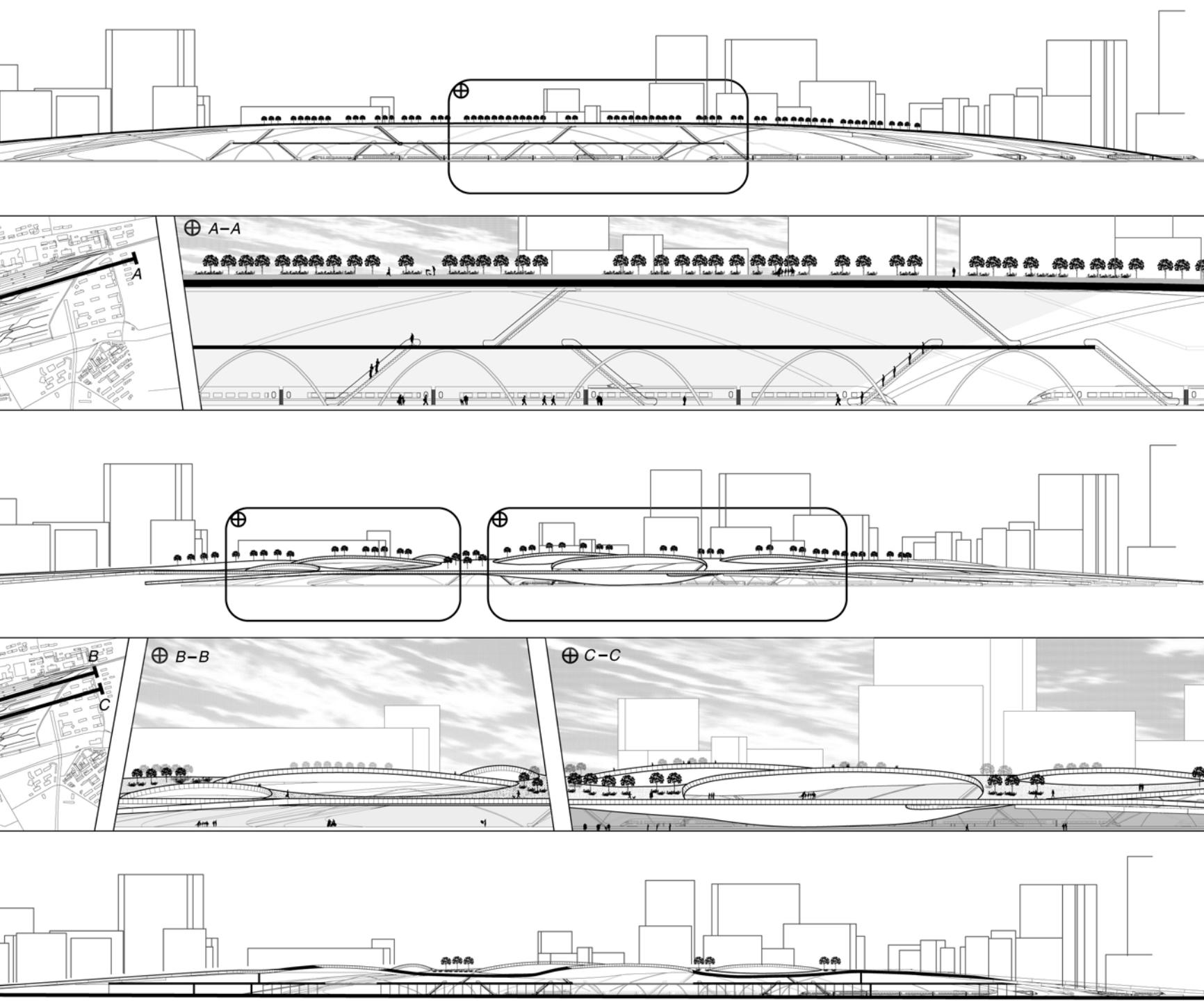


SECOND FLOOR PLAN



SECTIONS

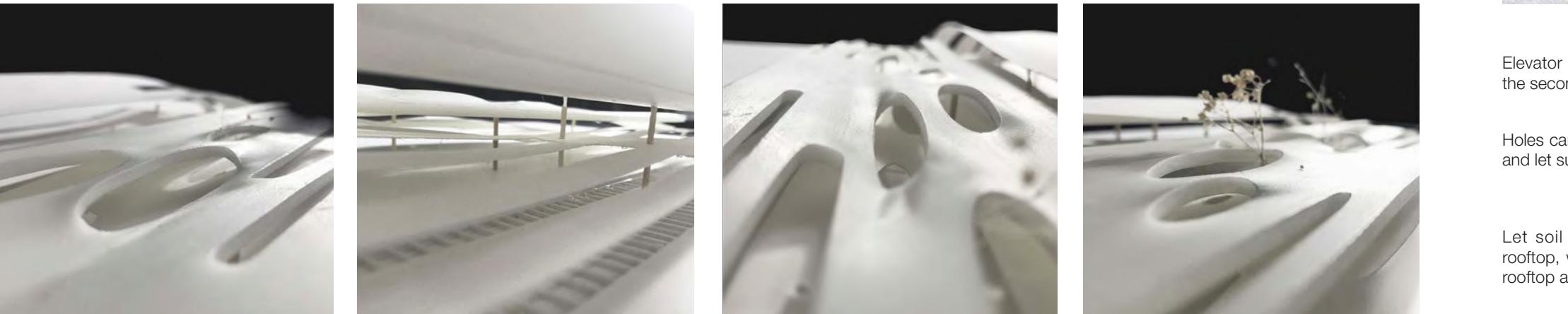
Detail sections of city park train station



PERSPECTIVE



3D PRINTING MODEL OF THE STRUCTURE



PERSPECTIVE



Elevator can help people get to the second and the third floor.

Holes can let soot and CO₂ pass and let sunlight get through.

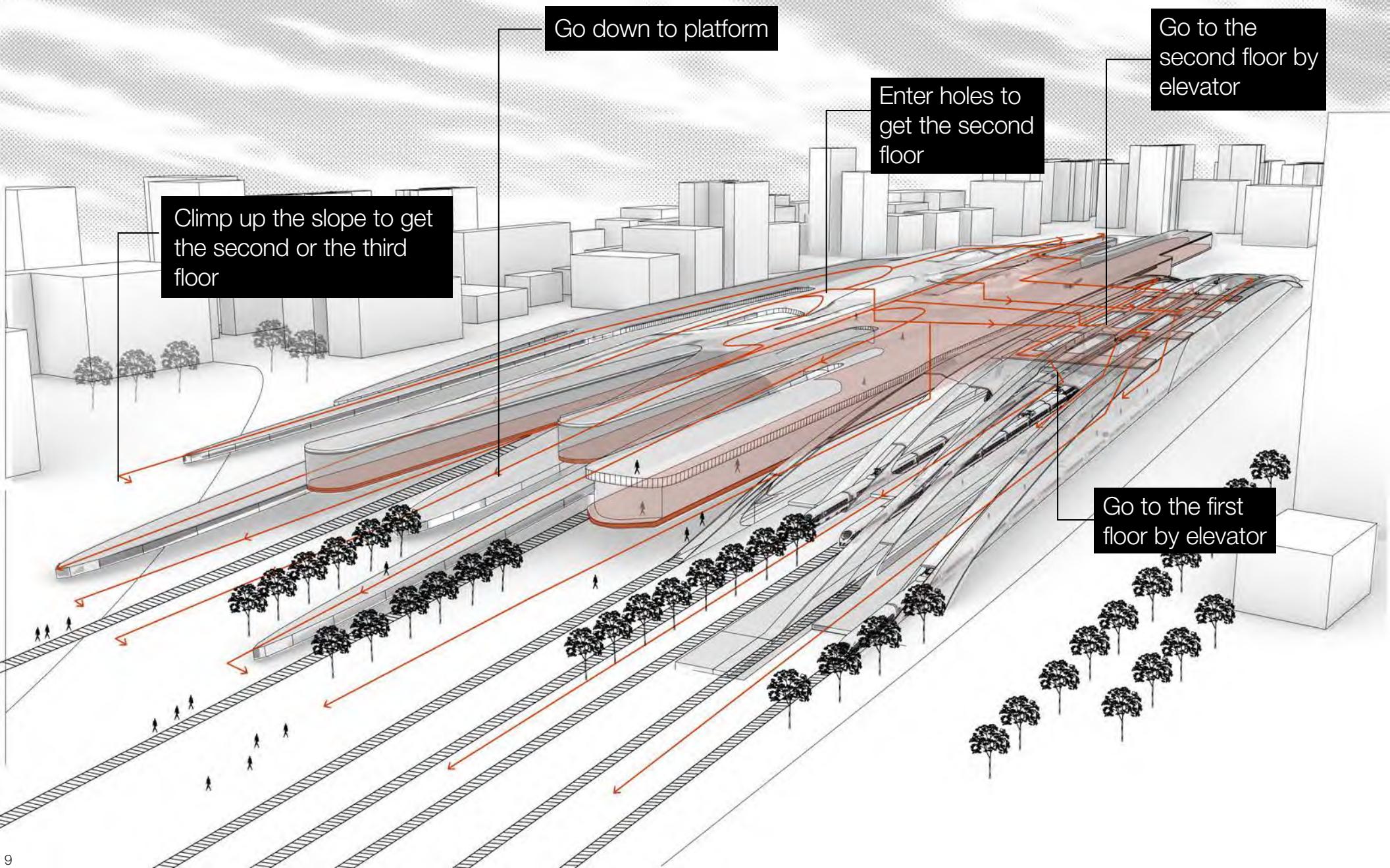
Let soil and plants cover the rooftop, which makes the whole rooftop as a sky garden.



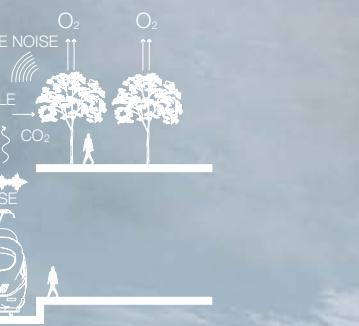
PASSENGERS' CIRCULATION

Second Floor

→ Circulation to train platform



BIRDEYE VIEW



02 Land Of Water

Strategy to floods and waves in coastal region

Location: Shenzhen, China

Area: 250 Ha

Group Work

Member: Ying Zhang Xuhan Tong Yue Dai

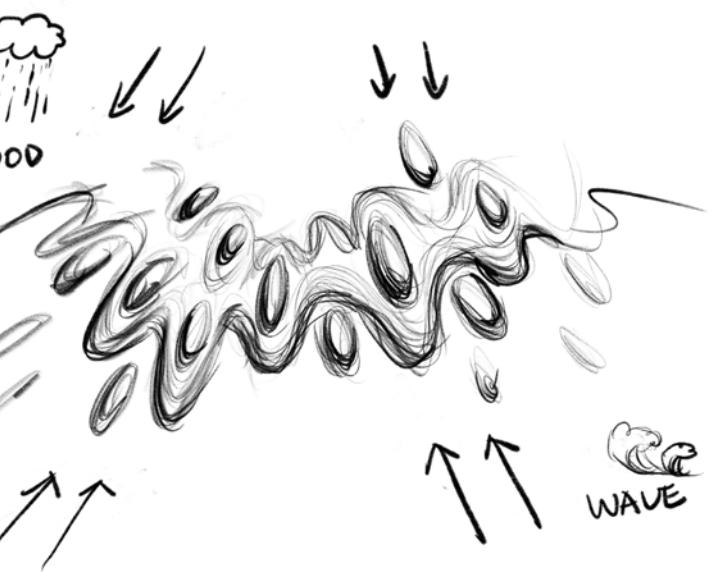
Time: 7/2018-8/2018

Instructor: Hongfei Ji

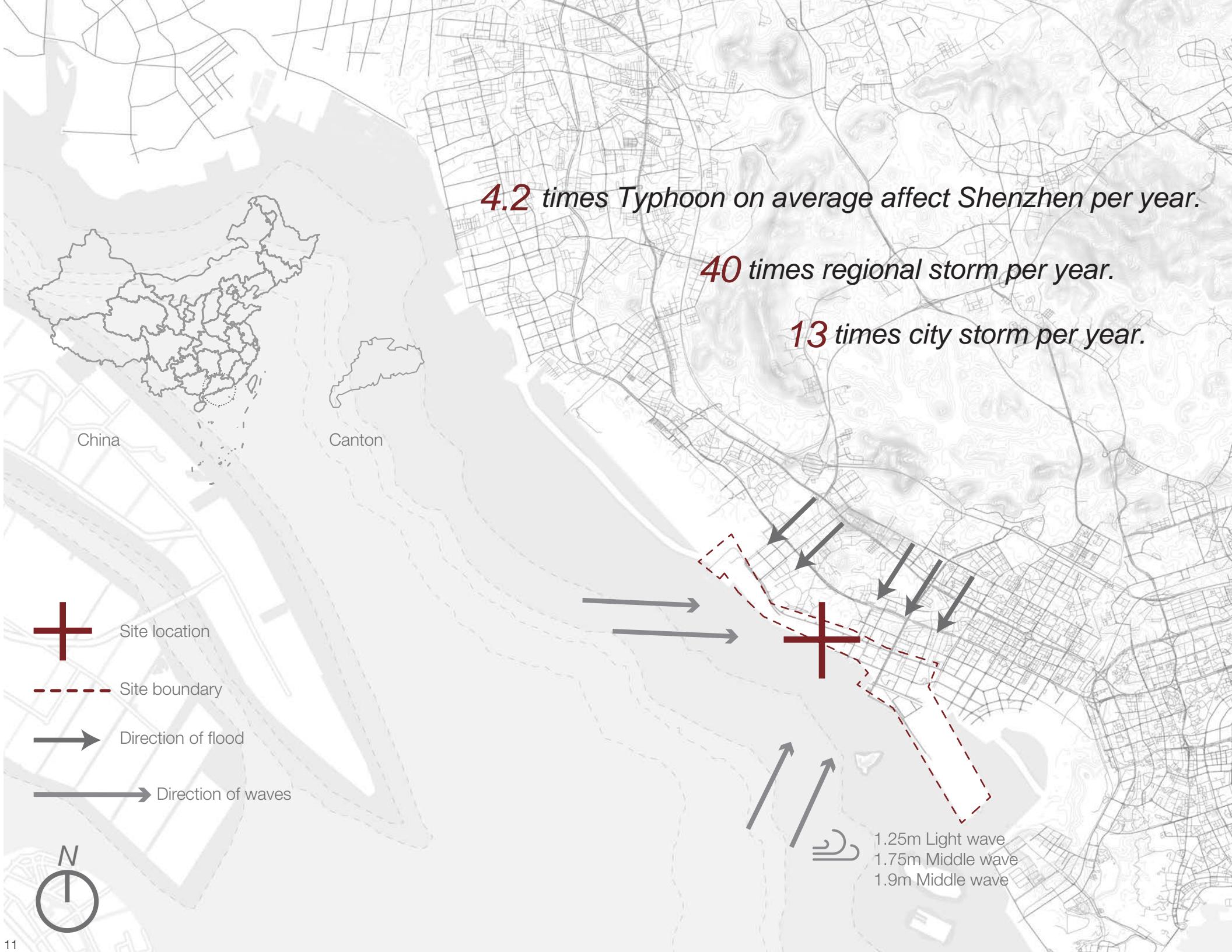
Background Intro

The project site, located in the coastal region of Baoan district, Shenzhen, faces a double dilemma of rising sea levels and urban floods, so a coastal transition zone is in urgent need to fix this problem.

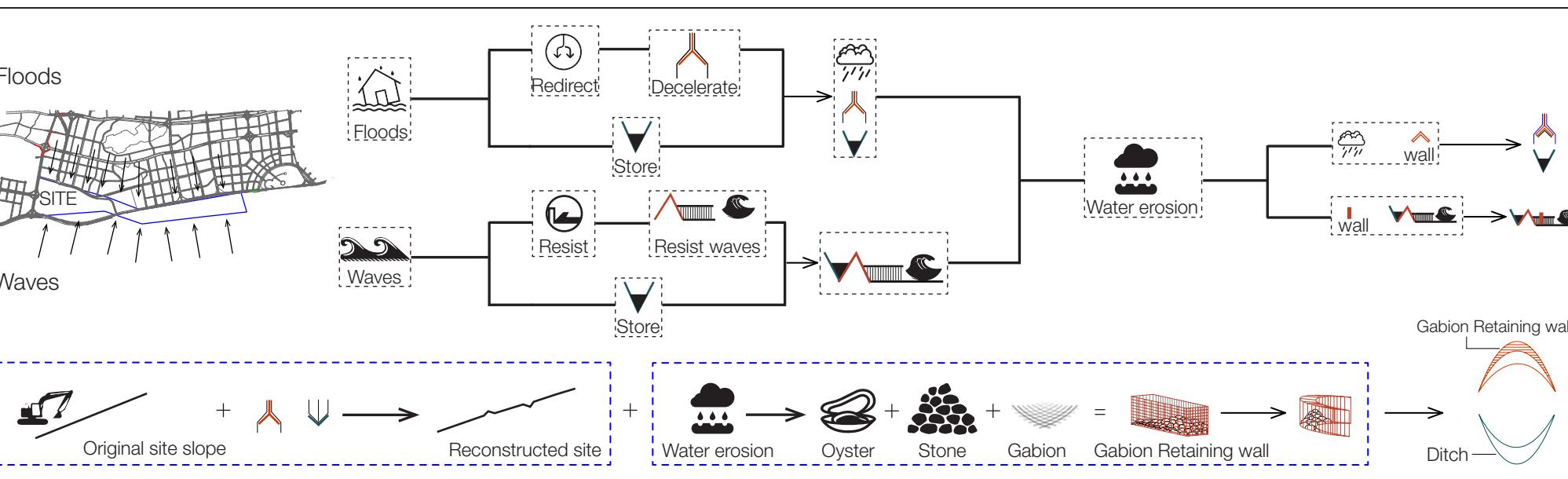
In order to balance the relationship among urban city, floods and waves, I propose a coastal plan with the concept of topographic elements. The changing topographic elements can not only collect water when floods or waves come, but also retain sediments to extend the urban boundary, which forms a valuable coastal ecosystem for plants, animals and human.



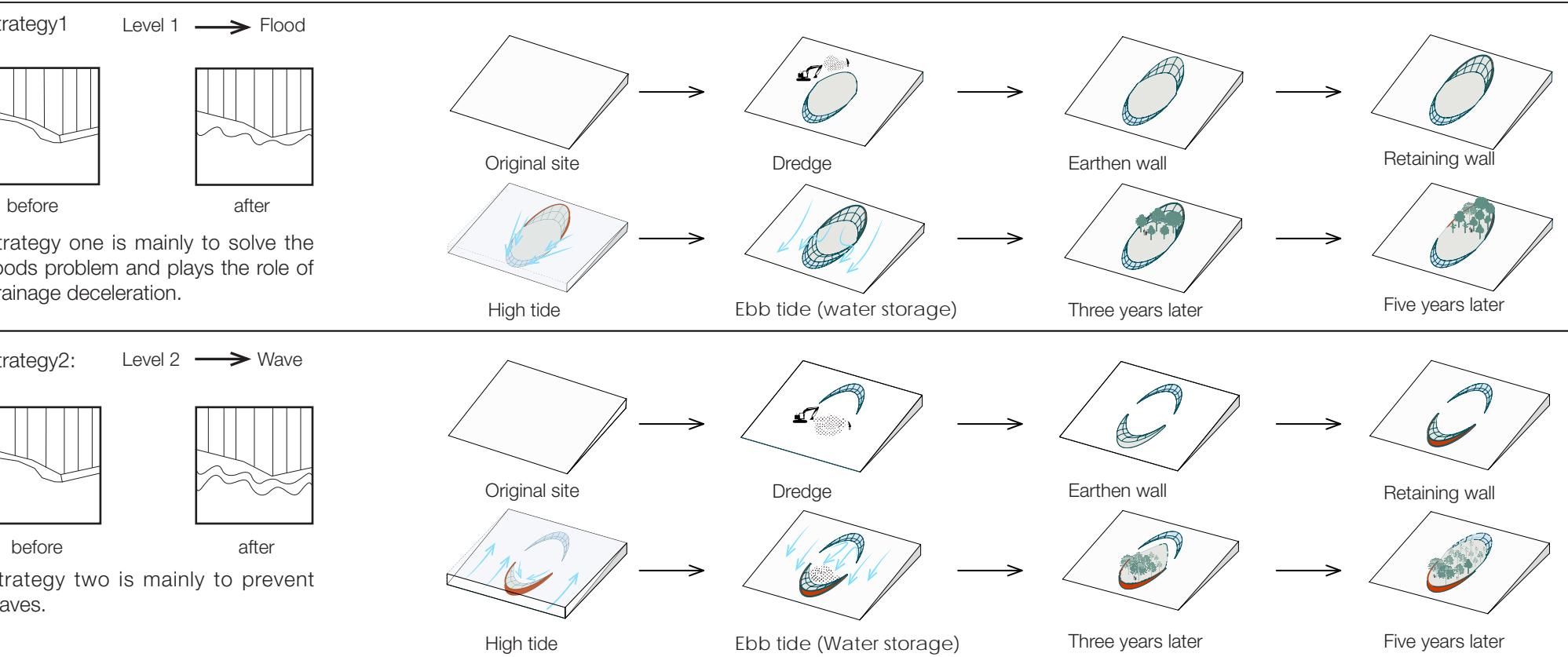
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FRAMEWORK

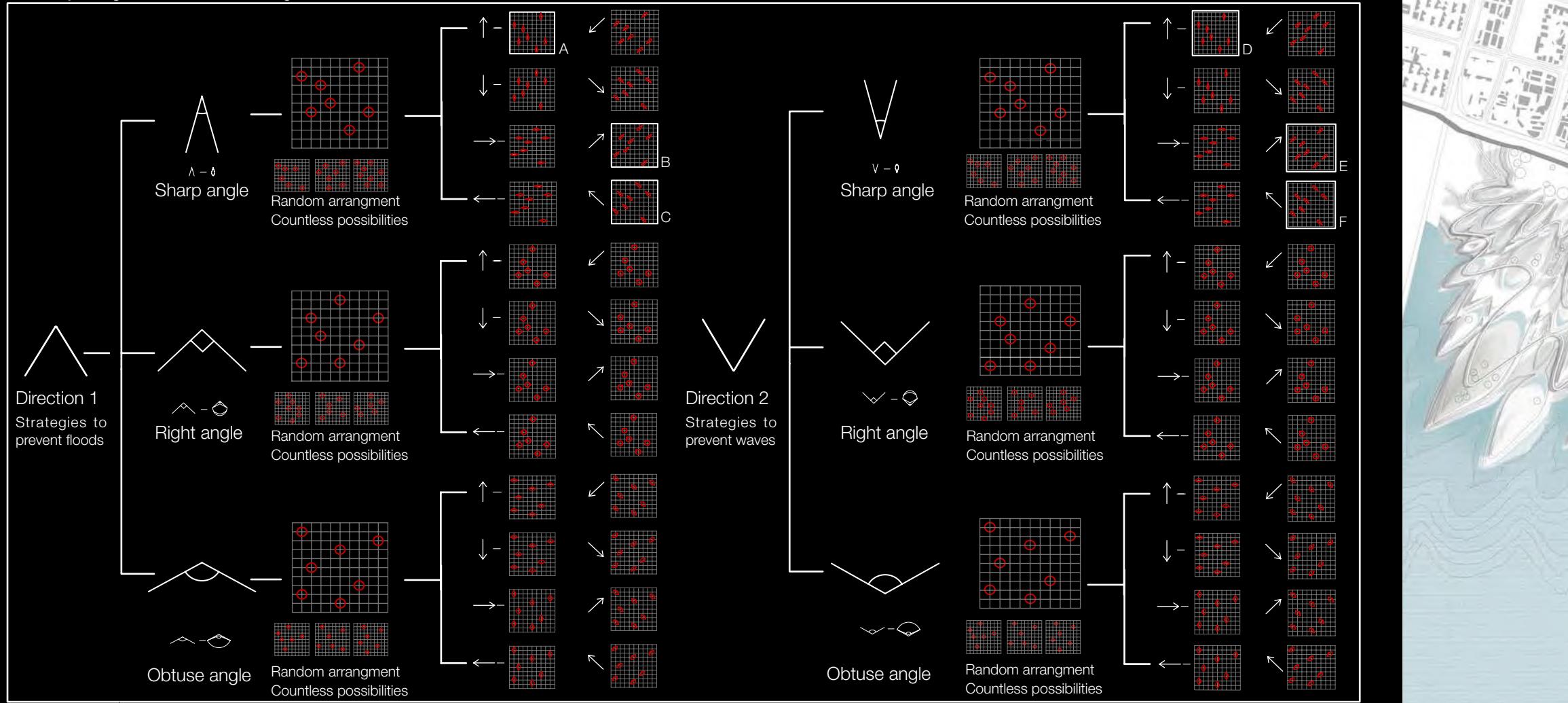


STRATEGY



INSTALLATION PLAN FORMATION

Possibility of organization of different angle and direction

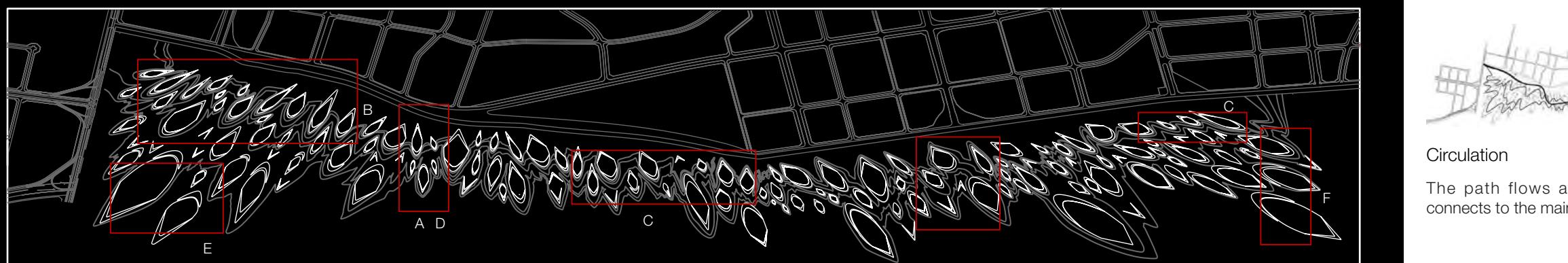


MASTERPLAN



PLANNER ORGANIZATION

Based on different angles and directions



PLAN ANALYSIS



Circulation

The path flows along the terrains and connects to the main road.



Ditches

Ditches can catch the water brought by floods during hurricanes.



Strategy to floods

The sediments brought by waves redirect and retain through walls and ditches, then form many terrains.



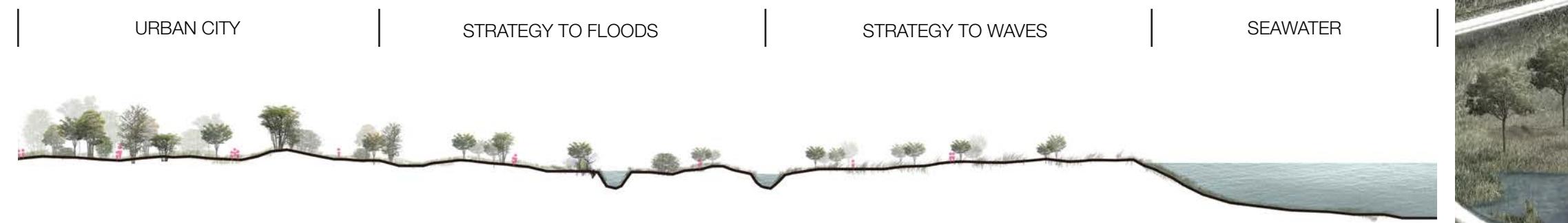
Strategy to waves

The sediments brought by waves redirect and retain through walls and ditches, then form many terrains.

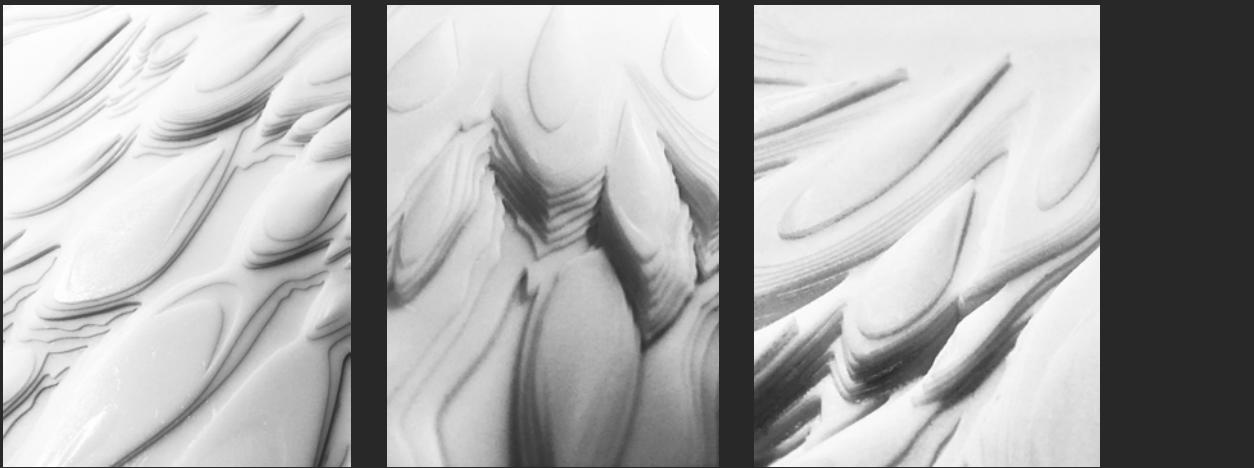
PLANTING DIAGRAM



PERSPECTIVE



Bombaria malabaricum	Trachycarpus fortunei	Cinnamomum	Chrysalidocarpus lutescens	Iris tectorum
Chukrasia tabularis	Jacaranda mimosifolia	Plumeria rubra cv. Acutifolia	Heteropanax fragrans	Lythrum salicaria
Cassia surattensis	Arrhenatherum elatius	Cocos nucifera	Bauhinia variegata	Pontederia cordata L.
Delonix regia	Parastyrax lacei	Lagerstroemia speciosa	Musa basjoo	Acorus calamus
			Cynanchum riparium	

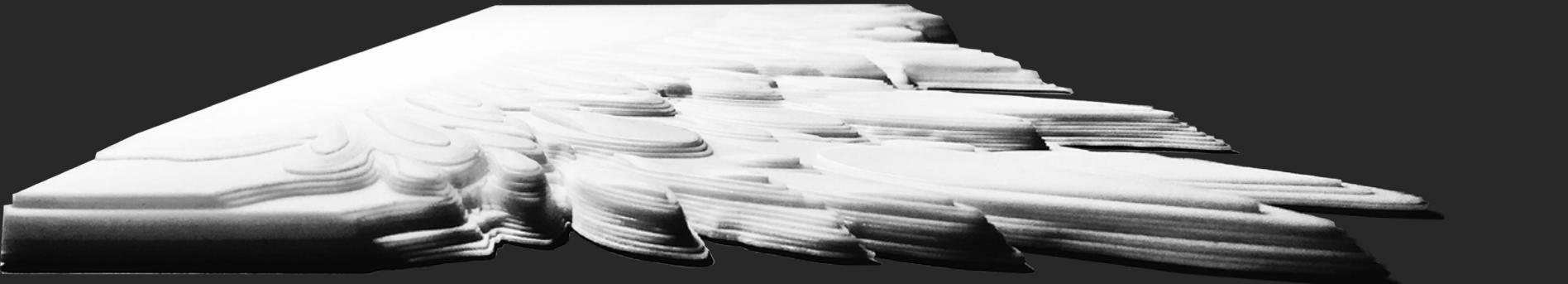


The topography consists of different textures, and the different morphological features of these muscles also have different effects. The main functions include slowing the flow rate of seawater, guiding the water flowing out of the city and storing seawater. The difference in morphology is mainly reflected in the difference in size, the difference in direction and the difference in arrangement.



The topographical changes close to the seawater mainly play a role in preventing the waves, and the retaining walls in large and small terrain play a vital role. At the same time, it can be seen from the side of the city that the terrain from the city to the sea plays a role in guiding the flow of water. Different wetland plants grow on the trenches, which also creates a leisure space on the seashore.

PART OF LANDFORM MODEL (3D PRINTING)





03 The Way To Buddha

Memorial Landscape Of Buddhism

Location: Dunhuang, China

Area: 2 Ha

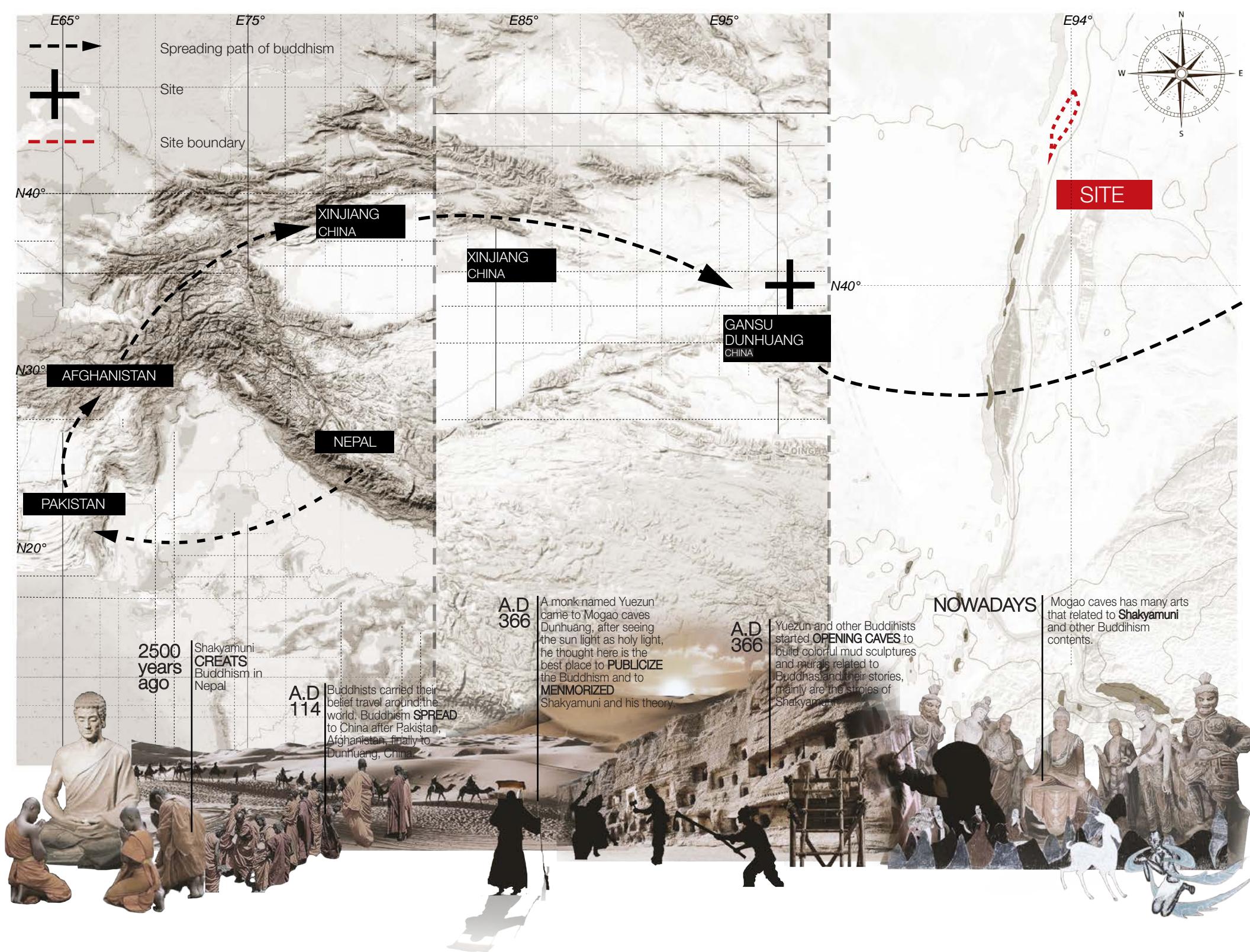
Individual Work

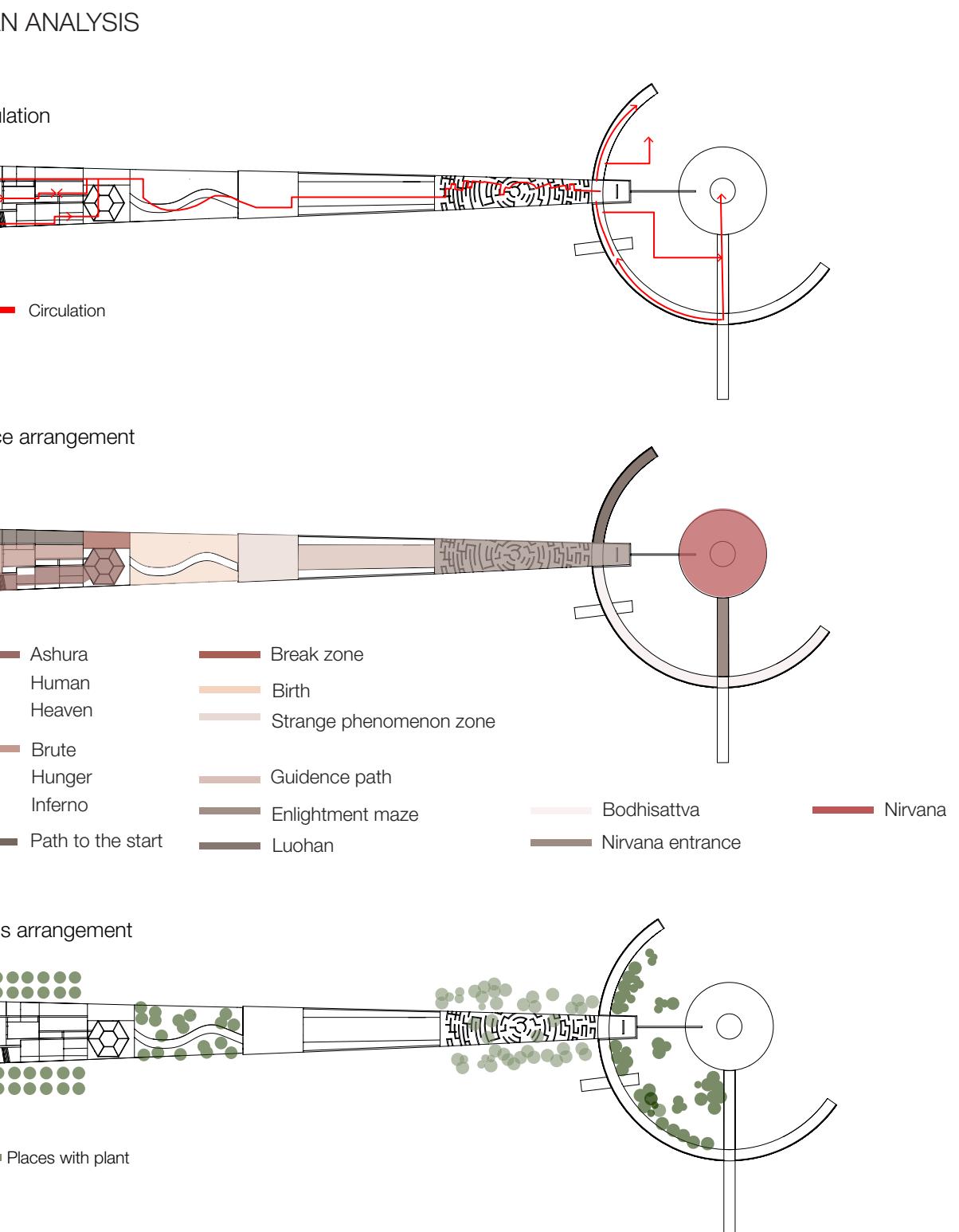
Time: 8/2018-9/2018

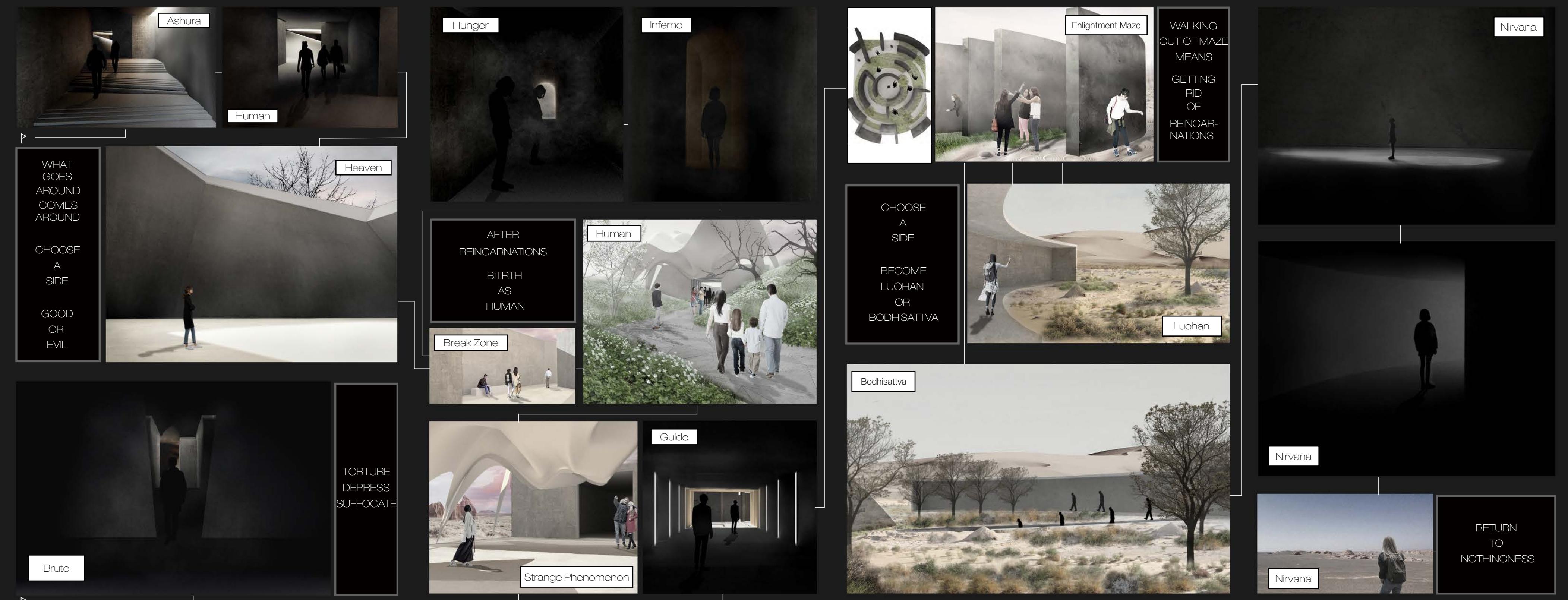
Instructor: Shunyao Hu

Background Intro

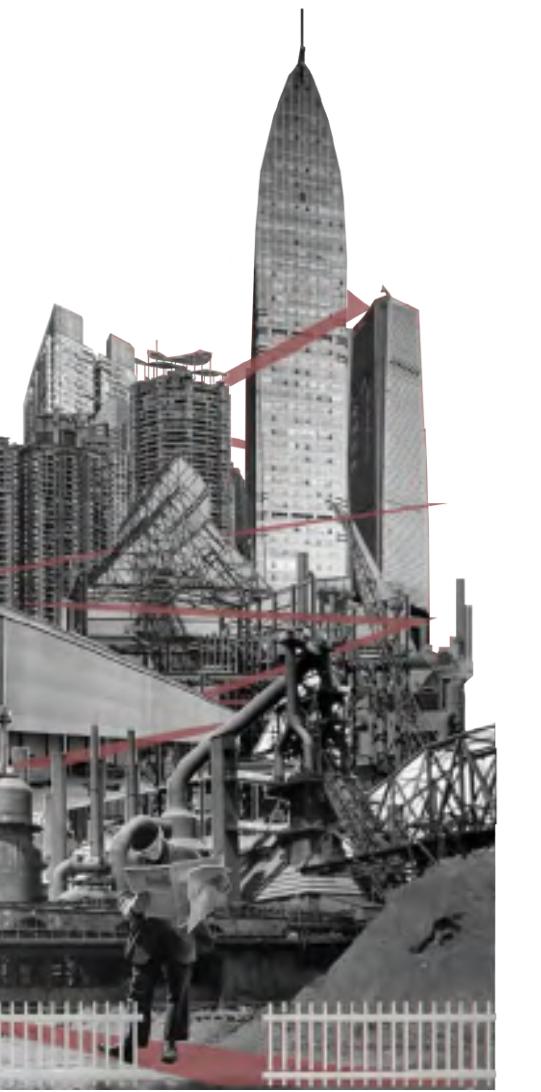
To memorize the founder of Buddhism, shakymuni, and his great theory, I convert his life experience and his theory to a series of emotions, and project them into one structure to let the tourists to experience his life and mind.







04 Brownfield Renovation



Location: Chongqing, China

Area: 97 Ha

Individual Work

Time: 6/2019-7/2019

Instructor: Hongfei Ji

Background Intro

Chongqing is famous for its complex terrain. Because of the big height difference, the biggest problem in the site is the difficulty of connection between the site and waterfront area.

Based on this problem, I use the concept of paper cutting, regarding terrain as paper and cut through to life varied height to address the problem of height difference. Moreover, as an abandoned steel factory, lots of steel frame and adobe buildings were remained in the site. For the site renovation, I give them new functions.

SITE ANALYSIS

Site Location



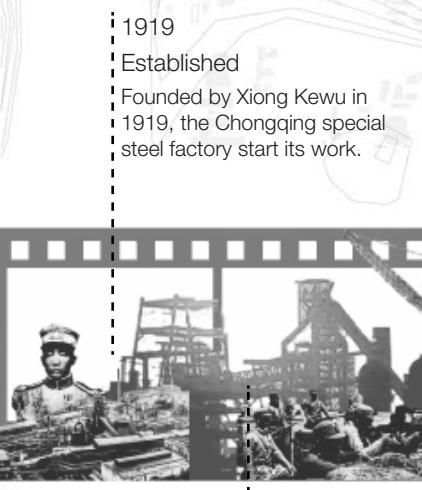
Legend

→ 1000 People per day
Human traffic from residential area

- - - Site Boundary

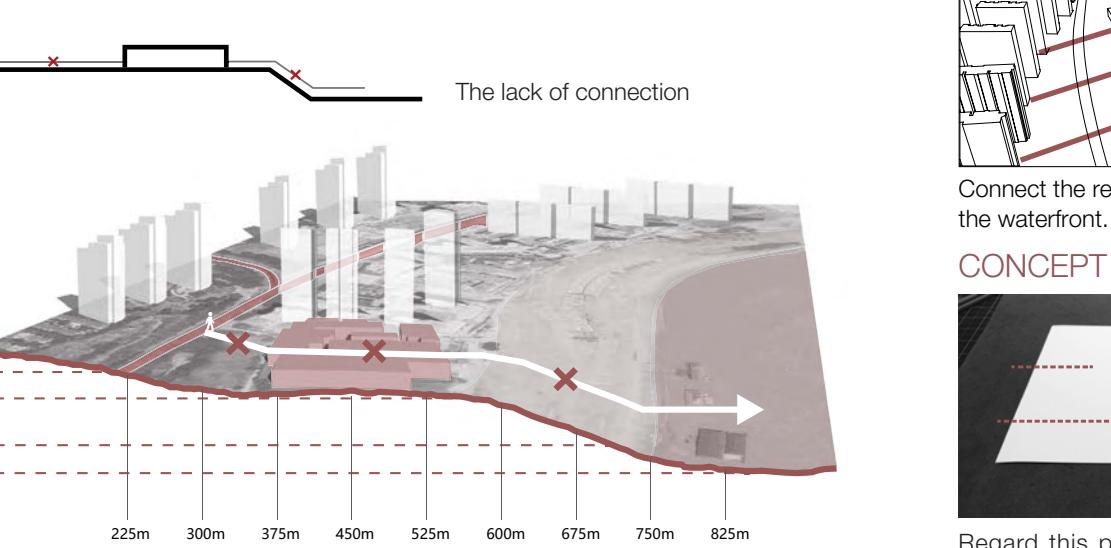
→ 7000 People per day
Human traffic from Ciqikou Ancient Town

SITE HISTORY

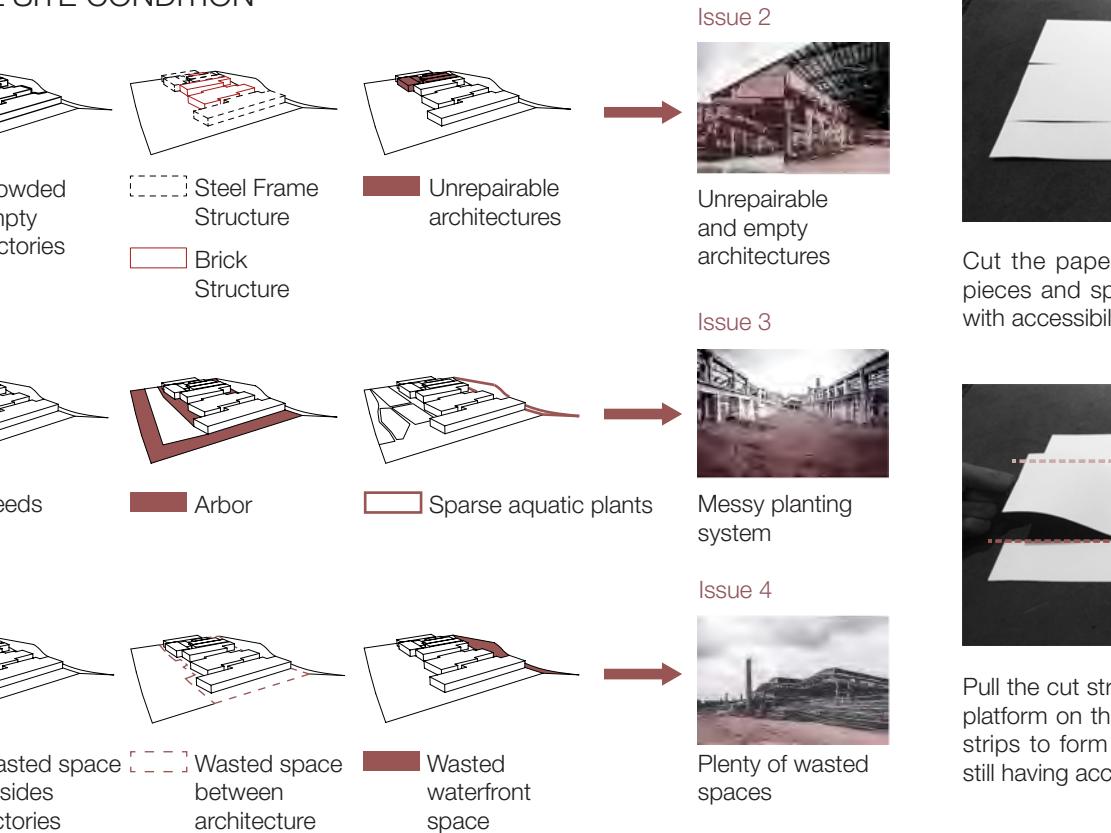


MAIN ISSUE

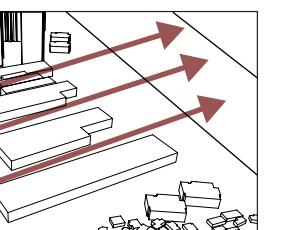
The main issue in this site is lack of coherence among the residential area, the old steel factories and the waterfront area. The 10m height difference cut the connection between architectures and waterfront area.



DETAIL SITE CONDITION

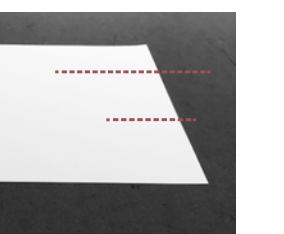


MAIN GOAL



Connect the residential area, the site, and the waterfront.

CONCEPT



Regard this paper as a ground with a zero elevation.

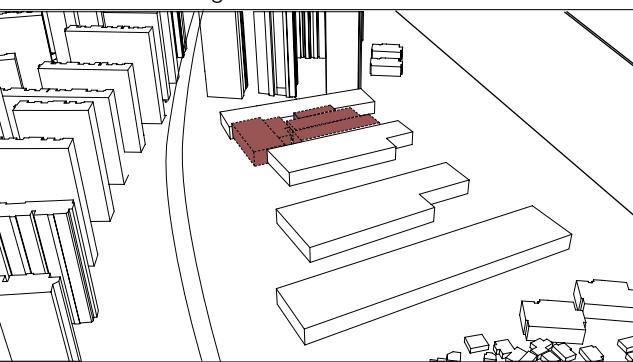
reserved buildings

demolished buildings

STRATEGY

Step 1

remove unsafe buildings



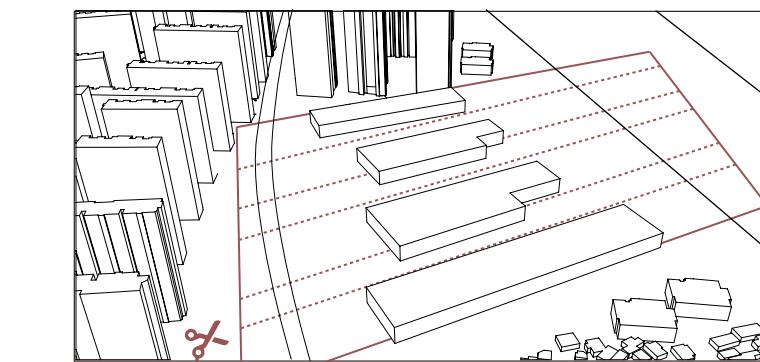
Demolish buildings with the lowest safety factor, leaving the most stable ones and retaining their original structures, such as steel frames.

cut line

highway

Step 2

cut the terrain



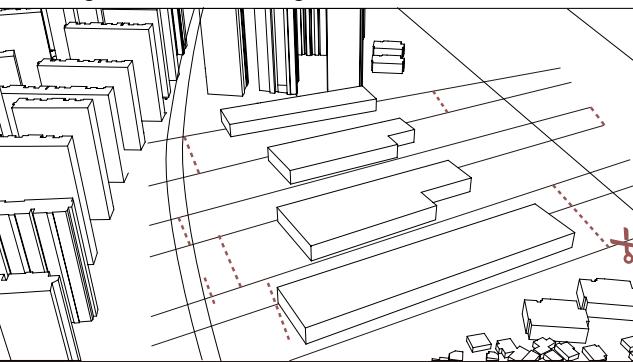
Cut along the boundaries of 4 buildings to form terrain that can be lifted in order to connect the waterfront to the site.

cut line

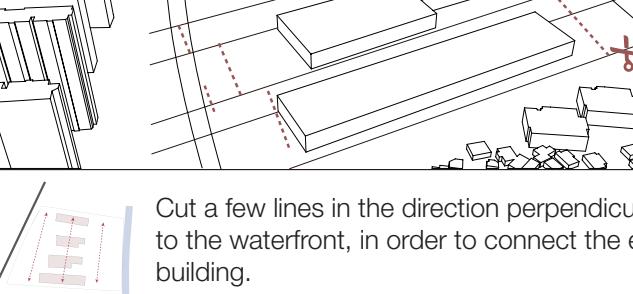
highway

Step 3

Cut through the direction along waterfront



Cut the paper horizontally into several pieces and split it into separate spaces with accessibility to each other.



Messy planting system

connection

highway

Cut a few lines in the direction perpendicular to the waterfront, in order to connect the each building.

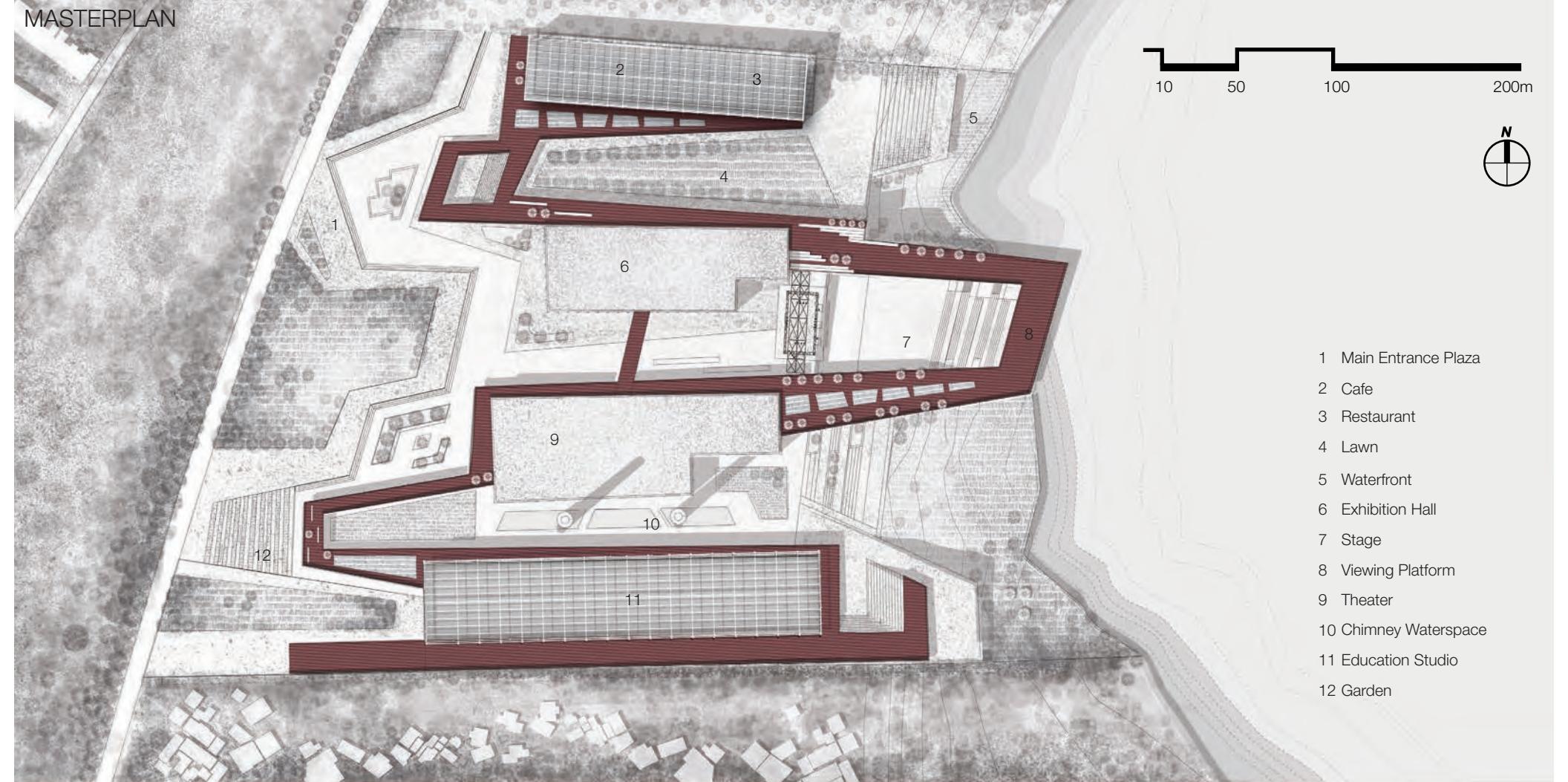
connection

highway

Pull the cut strip up, forming an elevated platform on the top, and connecting the strips to form a multi-layer space while still having accessibility.

Each parts of the platform will be lifted up in different height. Pull up the platform at 5 meter to connect second floor of each building, and 15 meter to form a viewing platform.

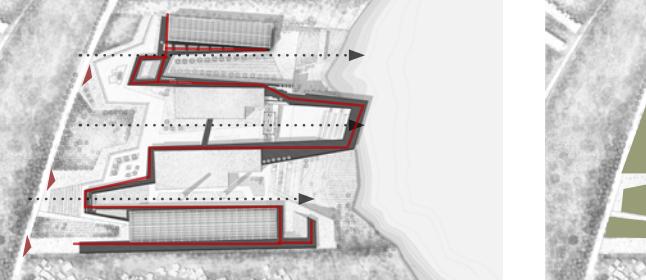
MASTERPLAN



Industrial heritages such as chimneys and steel frames are well preserved and are given new functions.

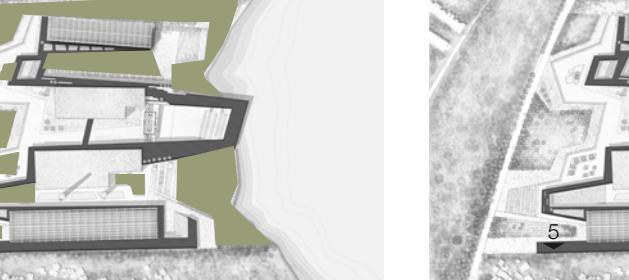
LAN ANALYSIS

Circulation Analysis



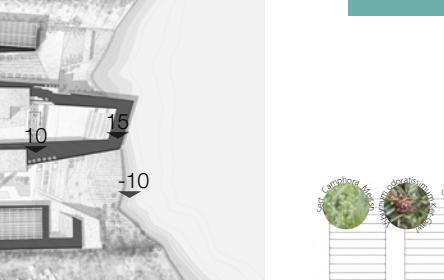
- Circulation on platform
- Circulation on ground
- ▲ Entrance

sis



cover

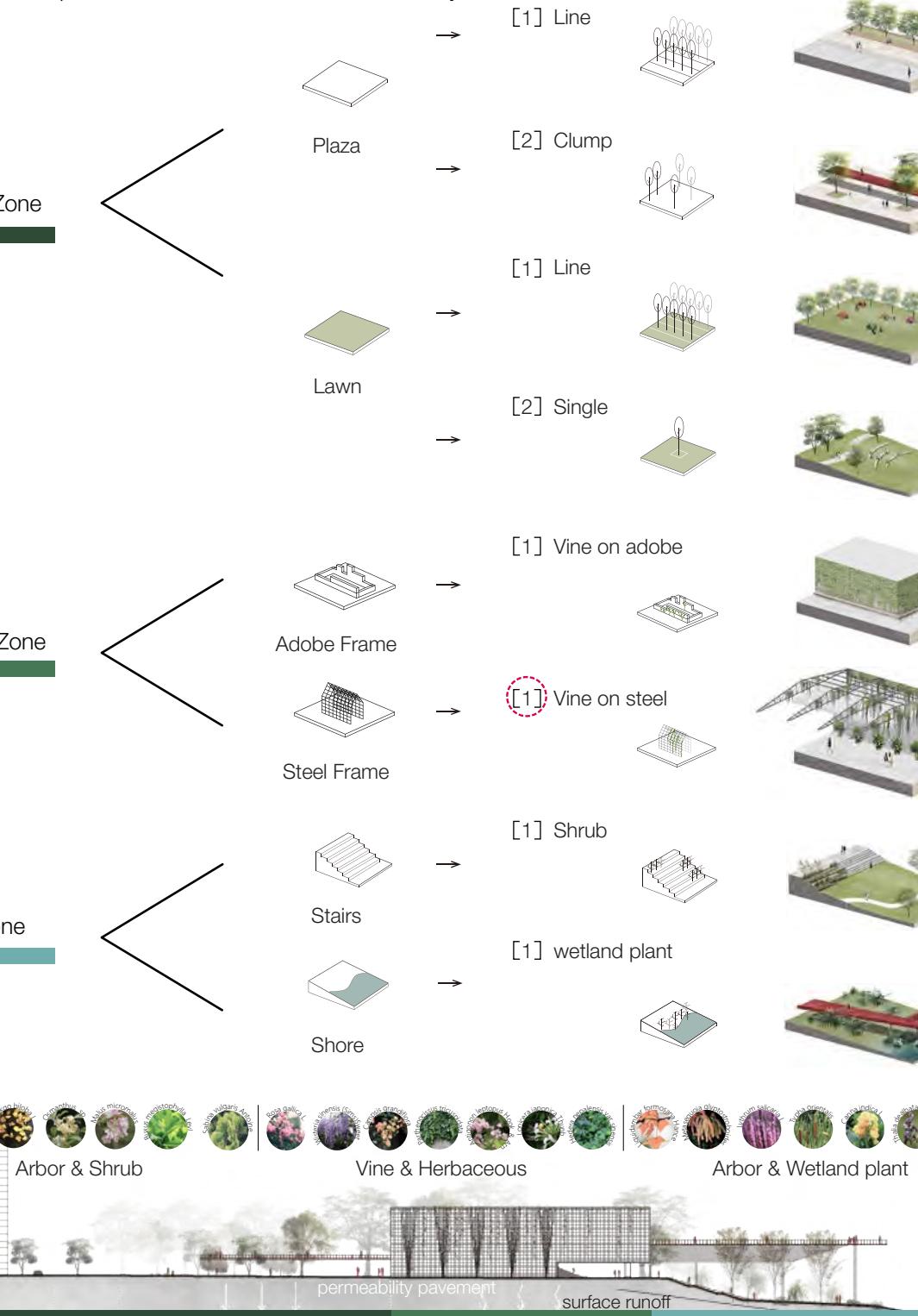
10.000-15.000 €



ANSWER

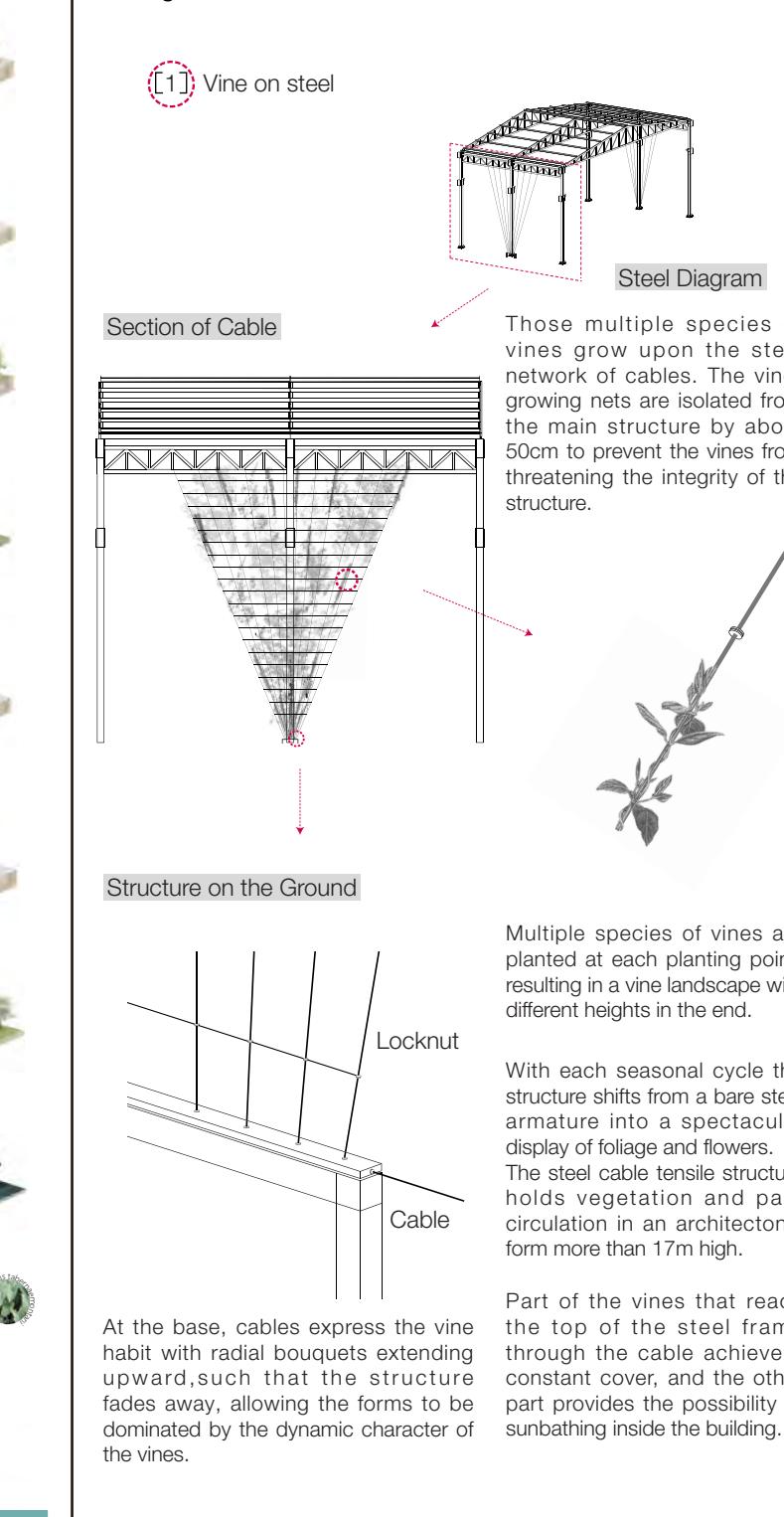
ON DESIGN

tern depend on different zone and section analysis



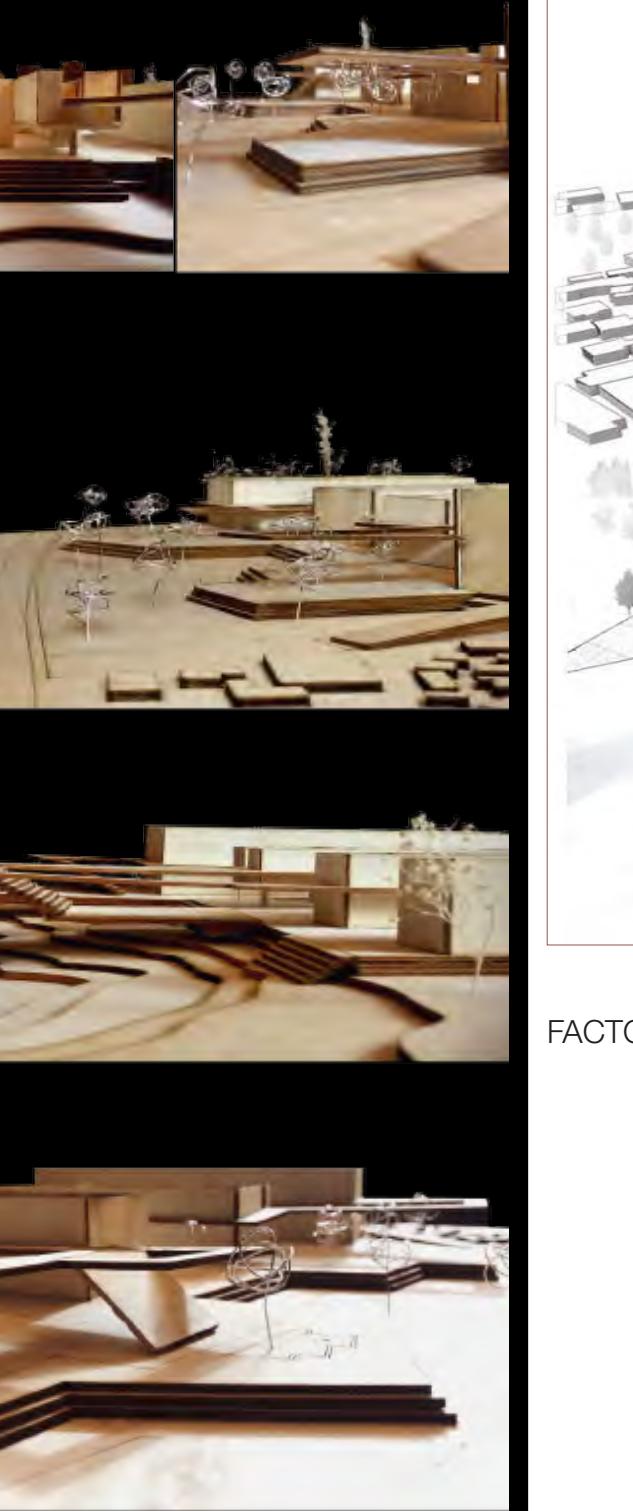
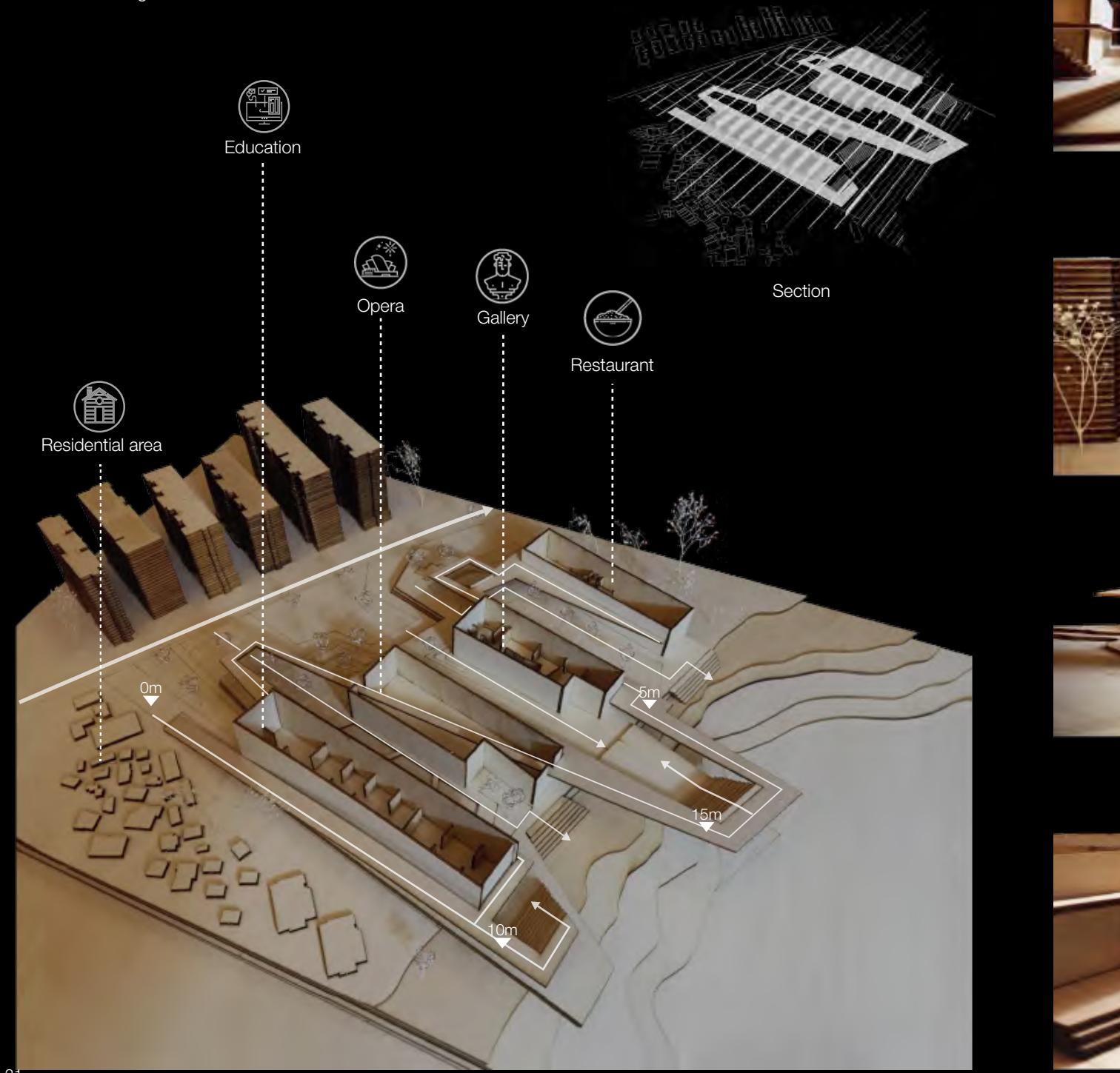
STRUCTURE DI

Plant growth mode and installation of steel frame

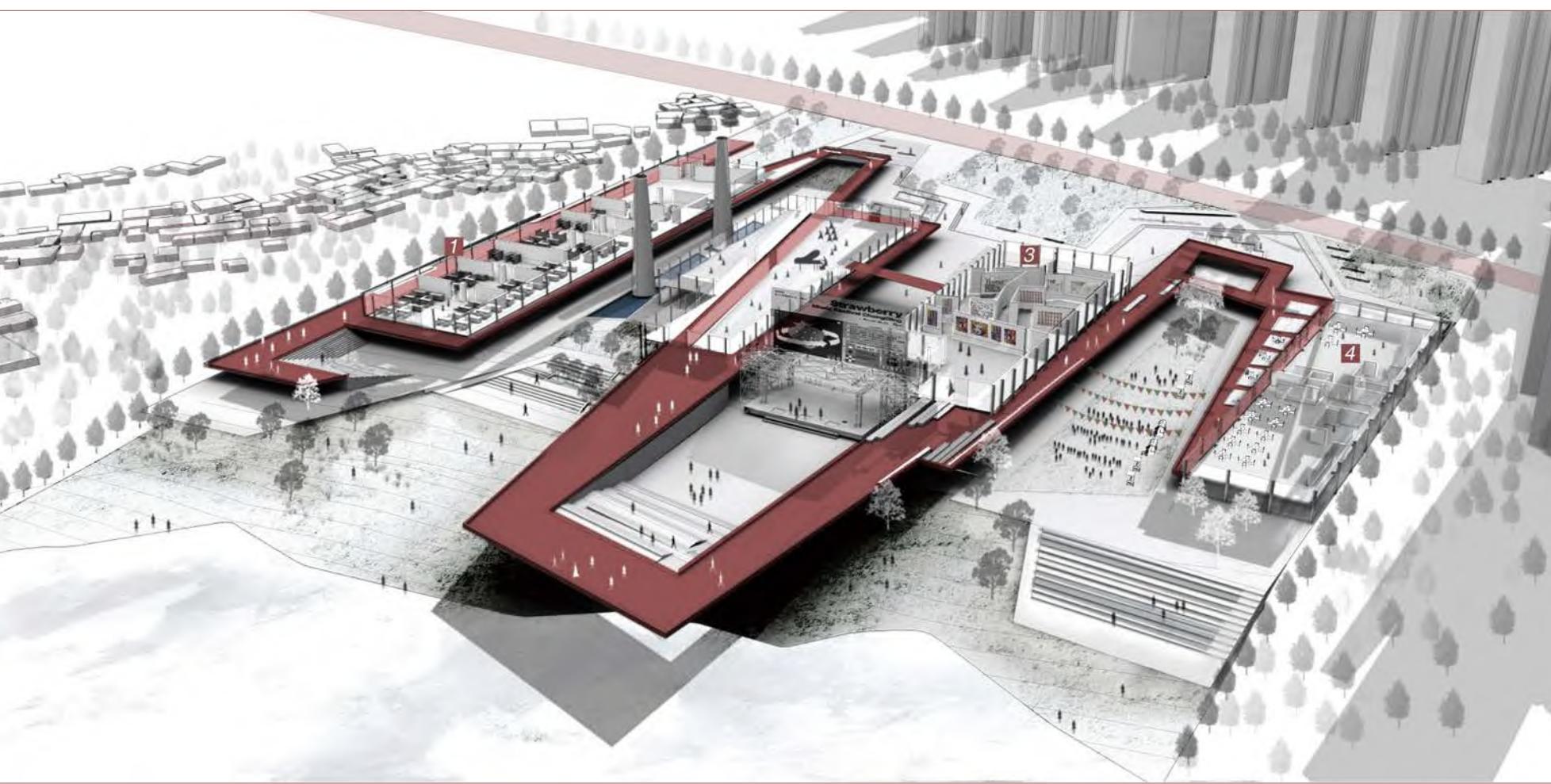


CONNECTION PLATFORM MODEL

The platform connecting the wasted spaces, architectures and waterfront area together, greatly convenient the transportation, in the meanwhile, it serves as a bridge that connect the all the funtion in the site.

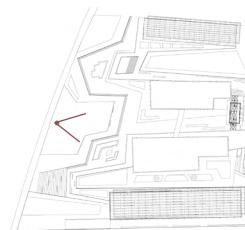
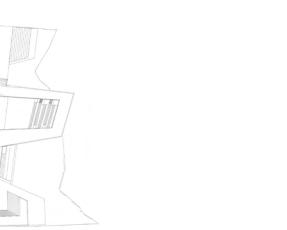


BIRDEYE VIEW



FACTORY REHABILITATION



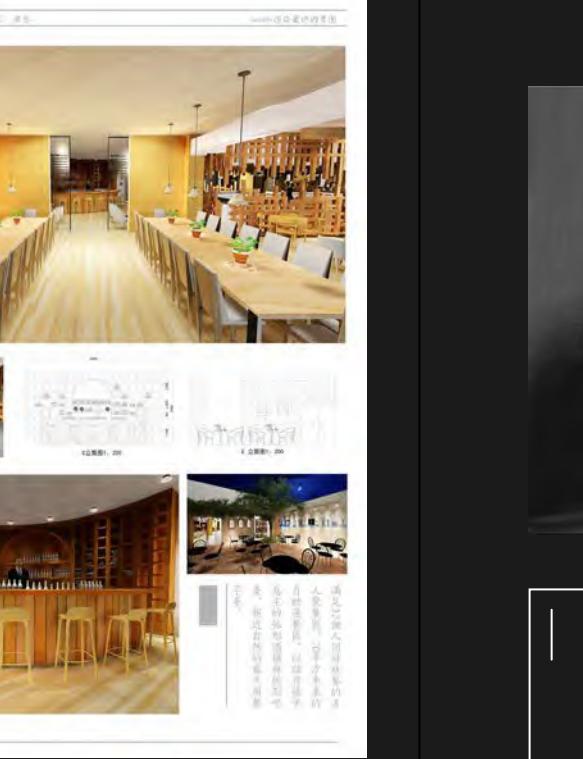


05

Other Works

Individual Work

1. Interior design work as restaurant design from school design studio.
2. Sketch works and color paintings
3. Photographics
4. Model



Medici Sketch
digital drawing 09-22-2017



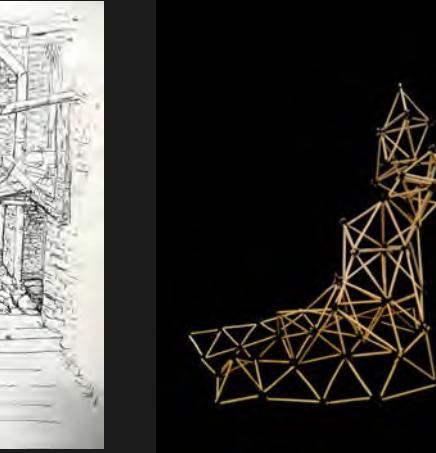
Head Portrait Sketch
charcoal drawing 02-08-2015



Seda Landscape Sketch
pen drawing 10-2016



Seda Landscape Sketch
pen drawing 10-2016



Spatial Model
toothpick & rubber band 09-2015



Illustration
watercolor drawing 07-20-2017



Impression Sunrise Copy
gouache drawing 10-06-2015



Seda Photographic
09-25-2016



Forbidden City Photographic
05-01-2019

