



"Cities accumulate and retain wealth, control and power because of what flows through them, rather than what they statically contain"

Beaverstock et al

So what flows through Mashhad?

Fast flow

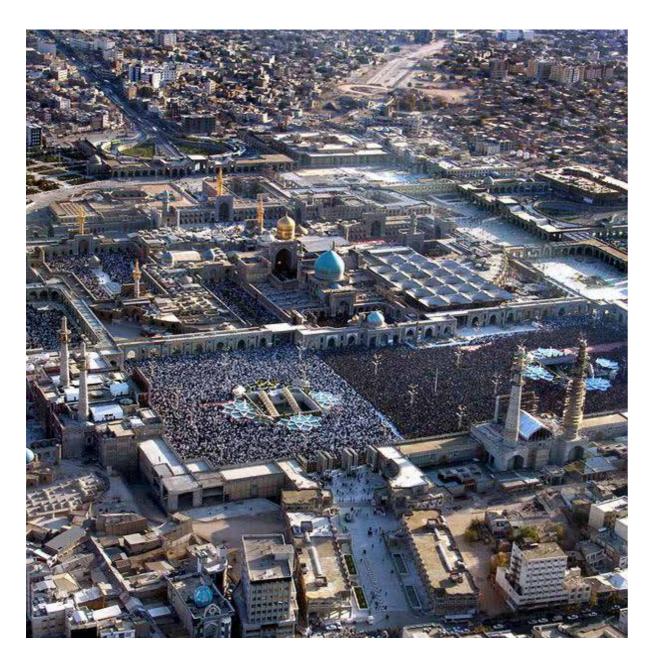
Slow flow

Fast flow

Regional scale Mass flow Connectivity

Slow flow

People

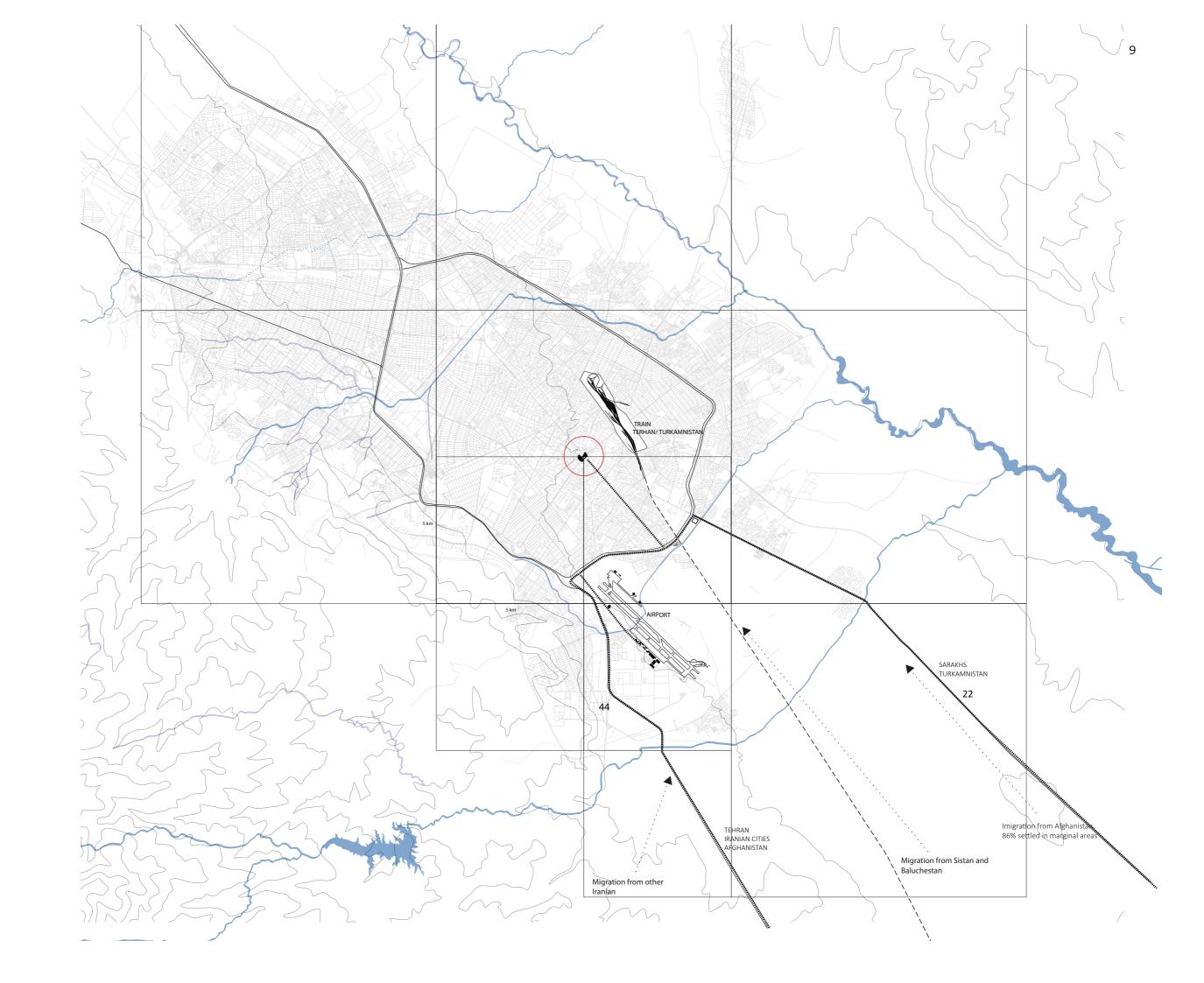


Pilgrims



Migrants

People



Goods

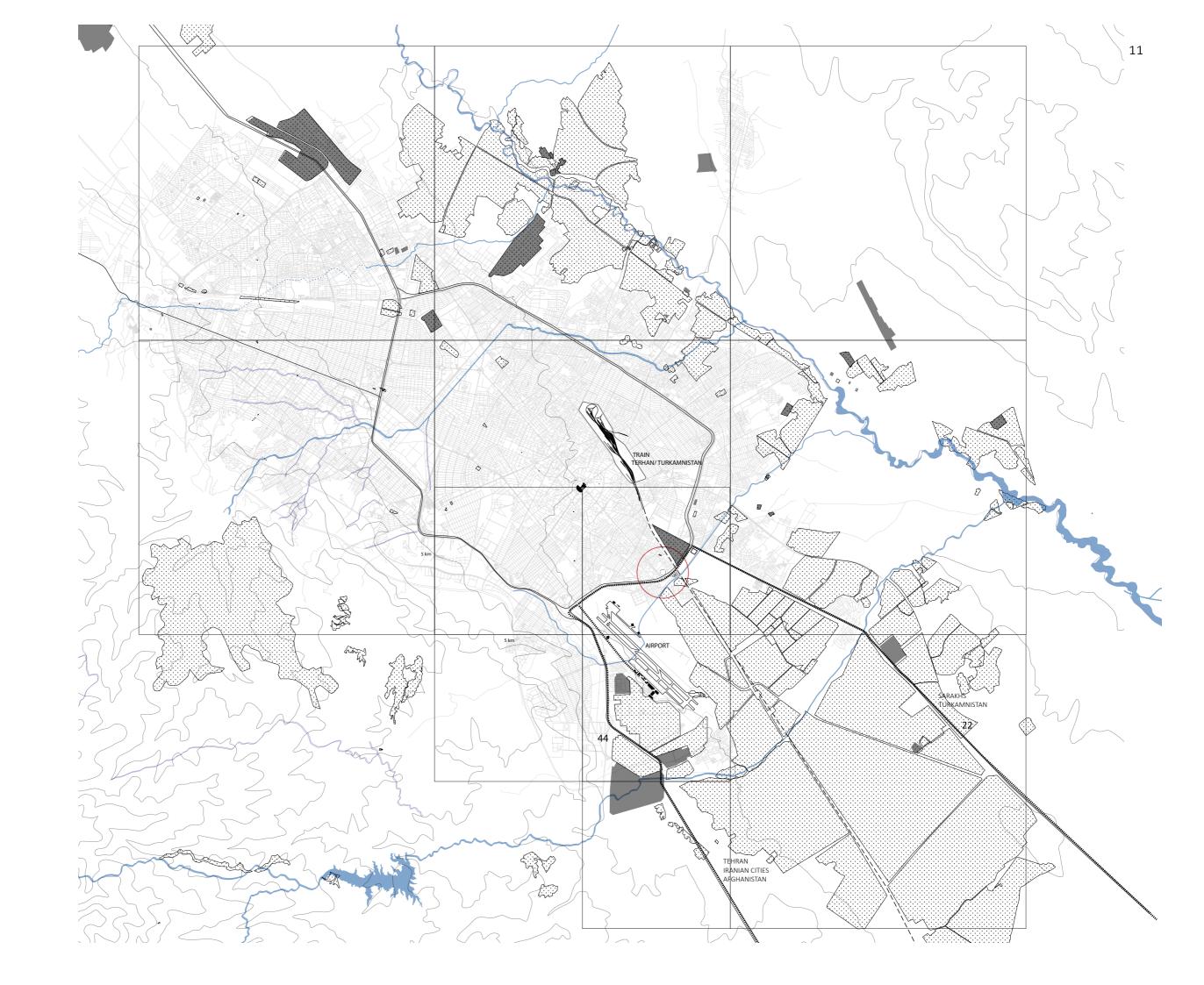


Industry



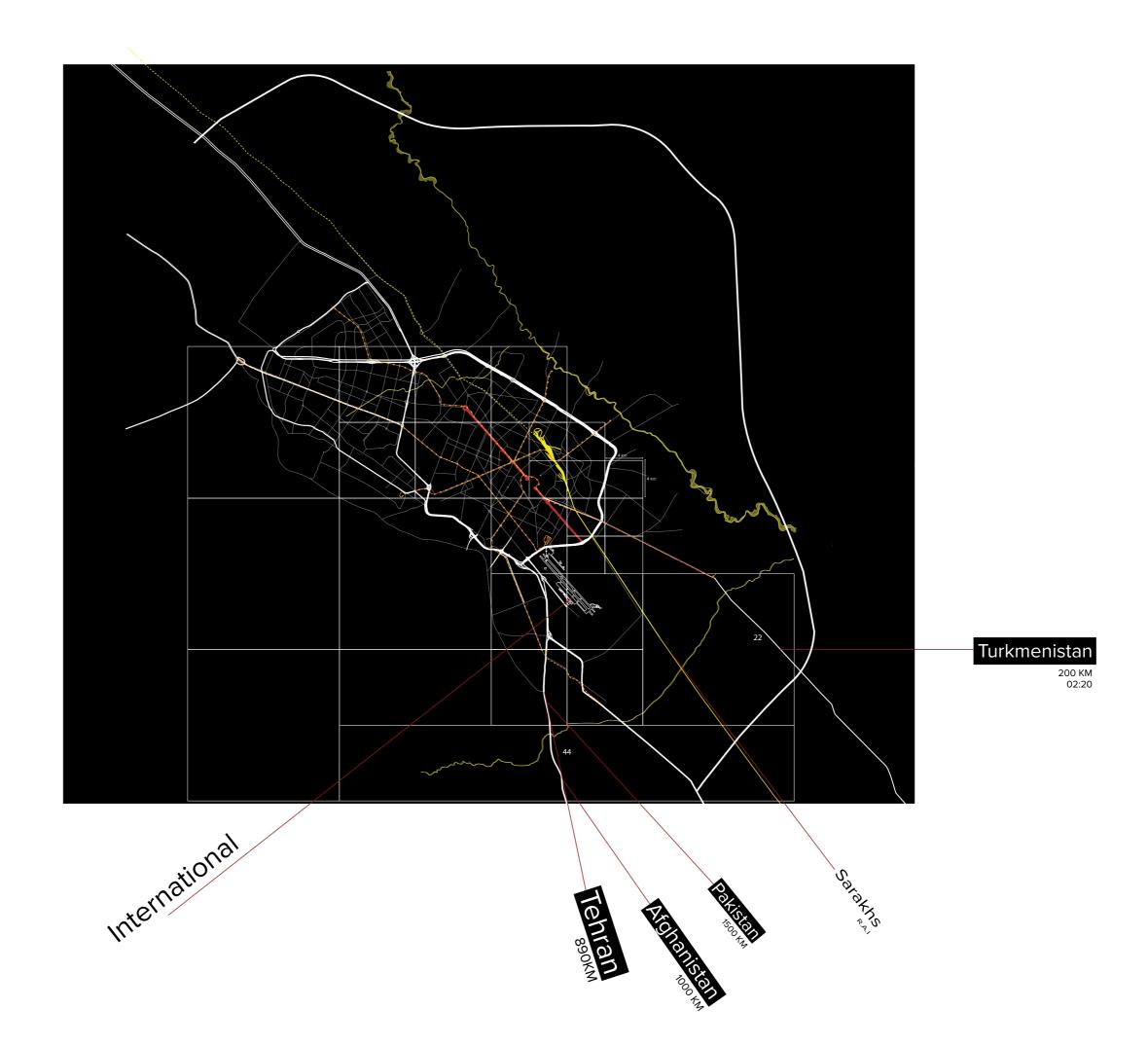
Agriculture

Goods

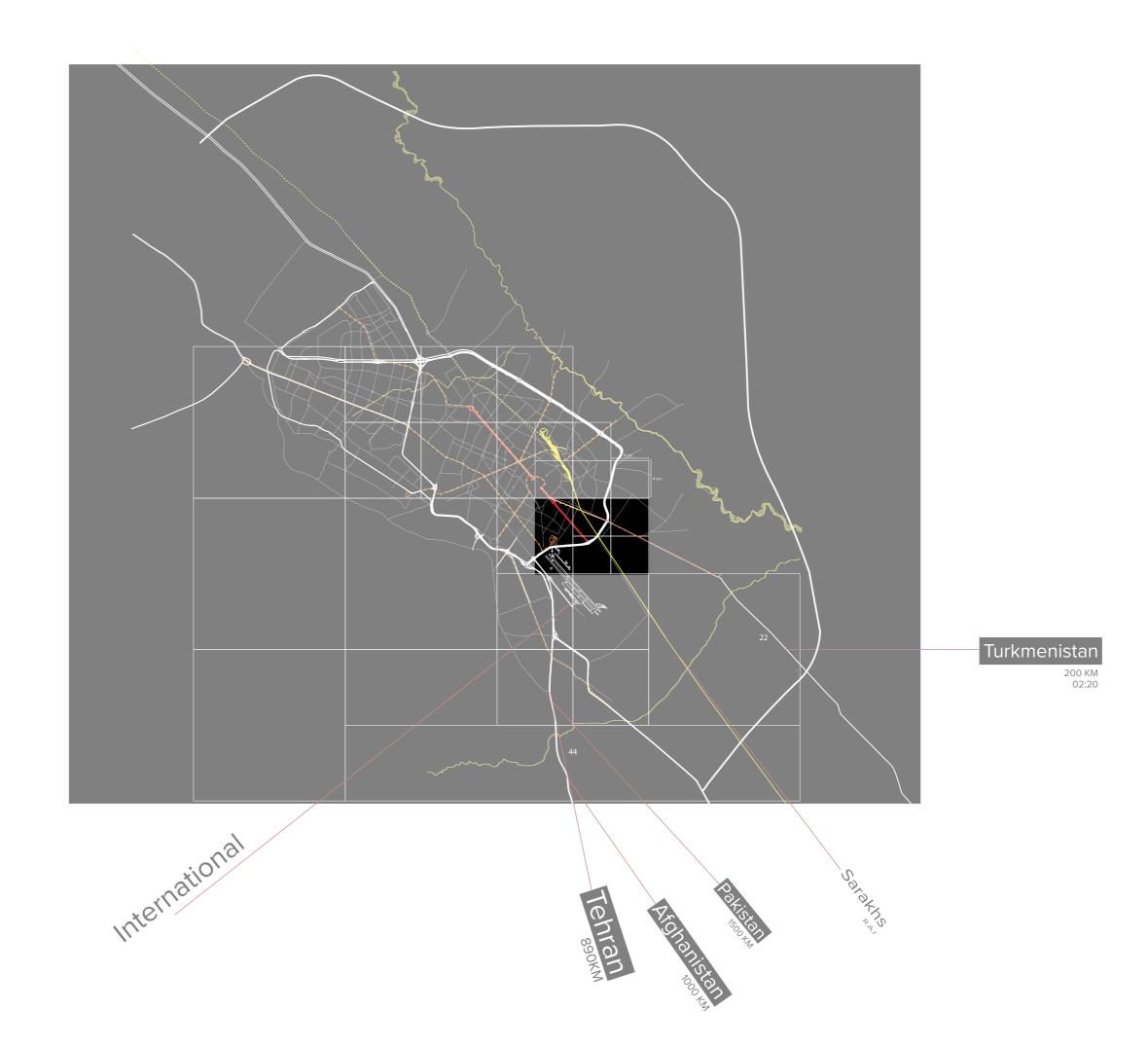


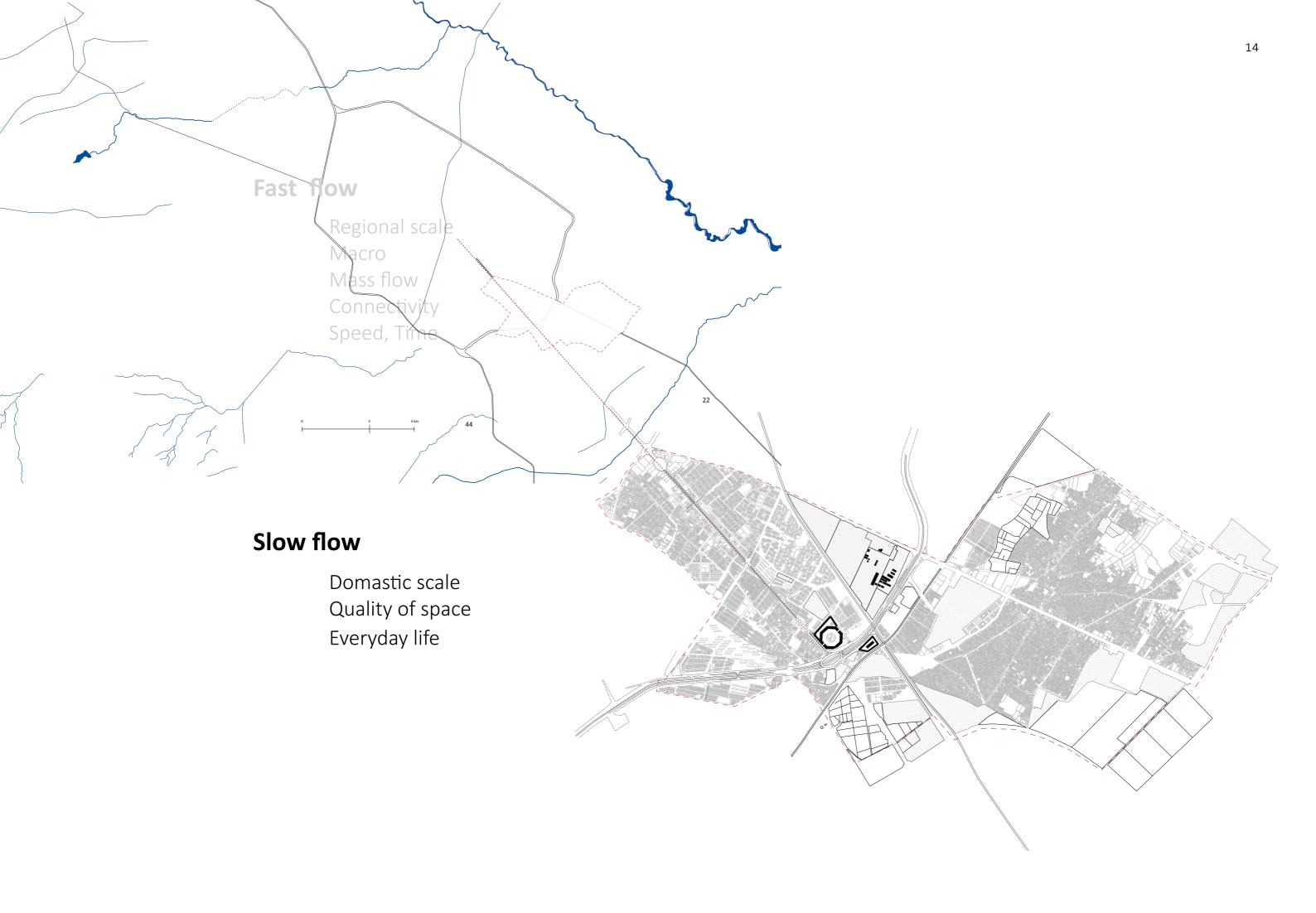
Fast Flow

Regional territory



Conclusion





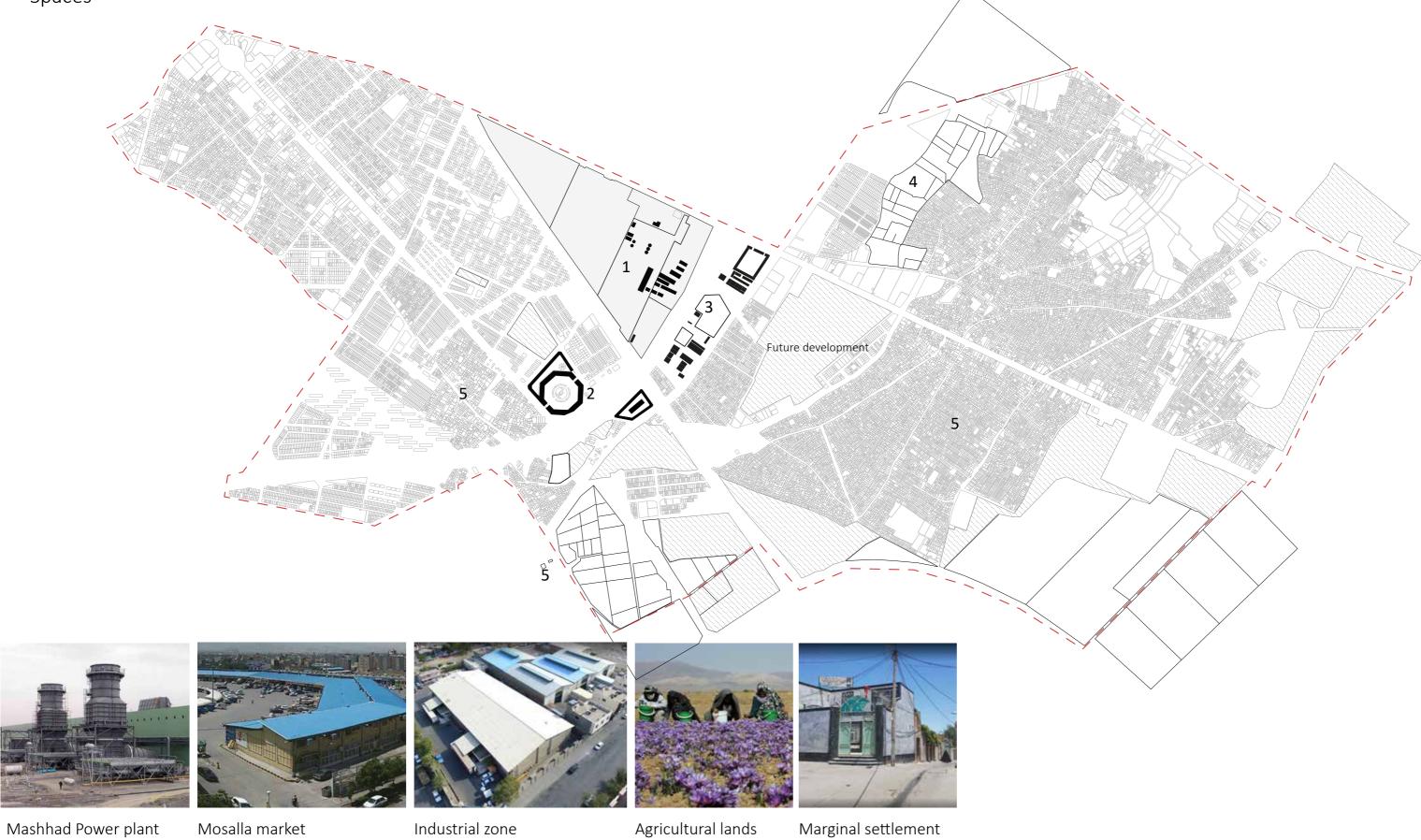
Flows

Spaces

People







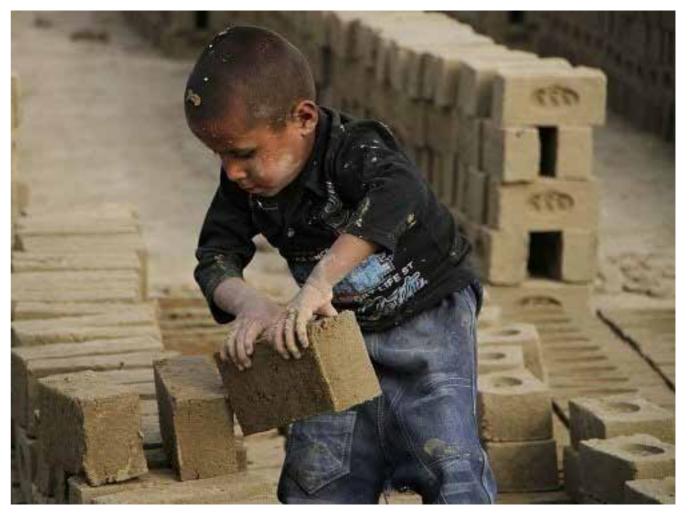
People

Socio-economic status









Problems in living environment

Lack of water

Polluted environment





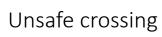


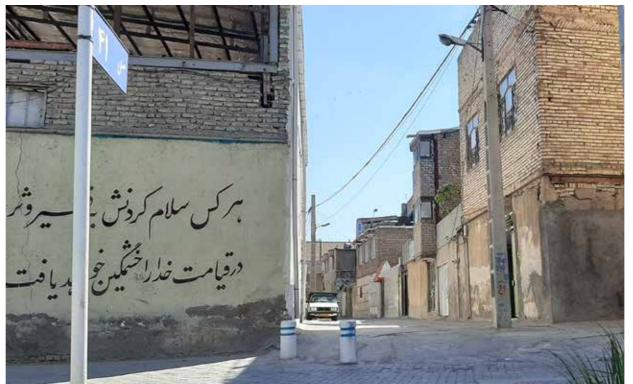














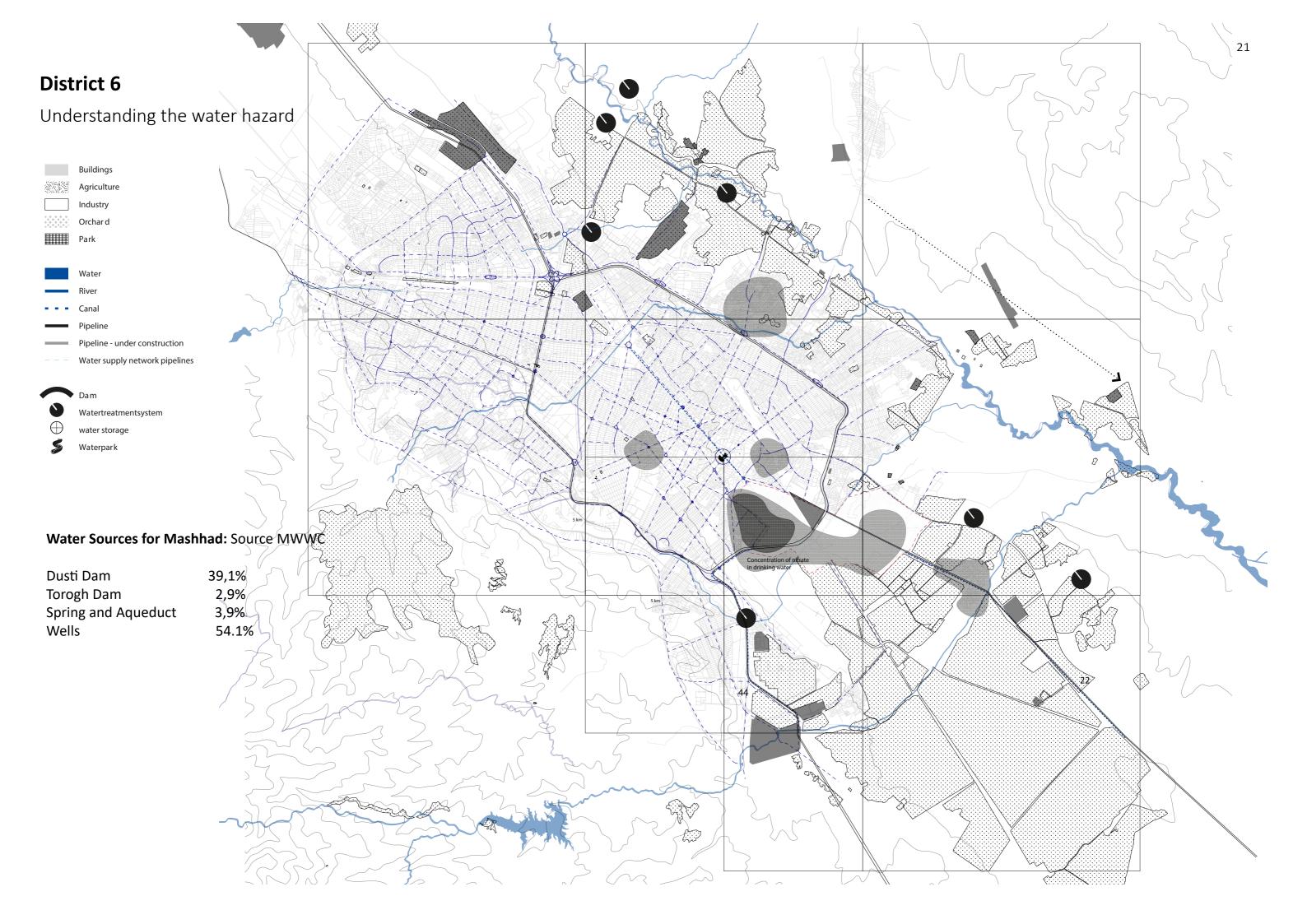
Living conditions

Natural hazards

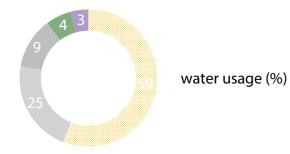
Floods in Iran – Dangerous floodwaters reaches Mashhad in the northeast

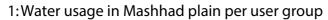


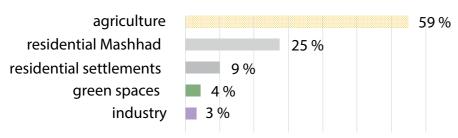
Flooding
Drinking water
Nitrate contamination



water consumption







2: Water usage in Mashhad per function

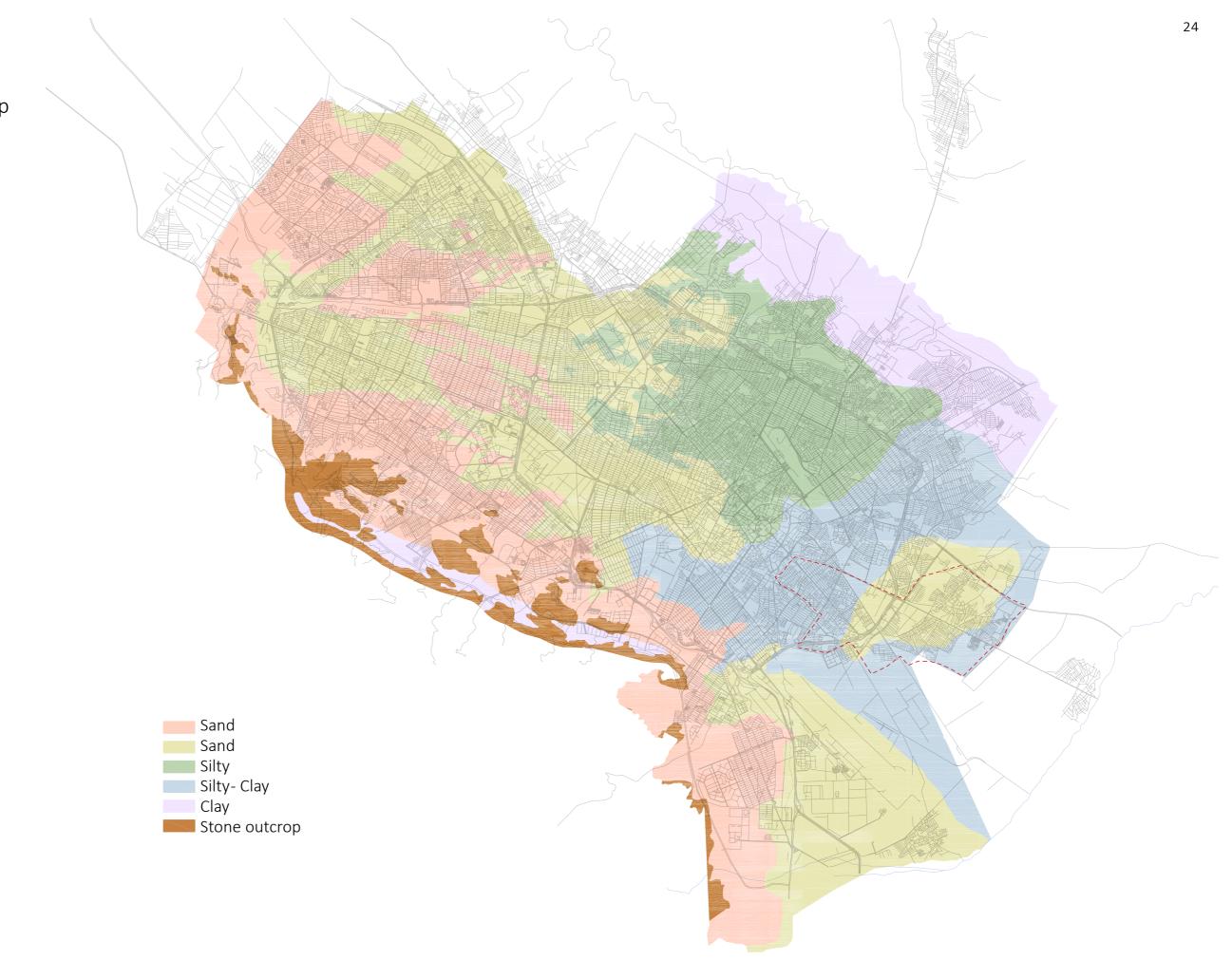
-
81,5 %
4,2 %
3,7 %
2,9 %
2,7 %
2,0 %
1,2 %
0,9 %
0,7 %
0,2 %

220 million cubic metres of water are needed to satisfy the annual domestic demand of the city.

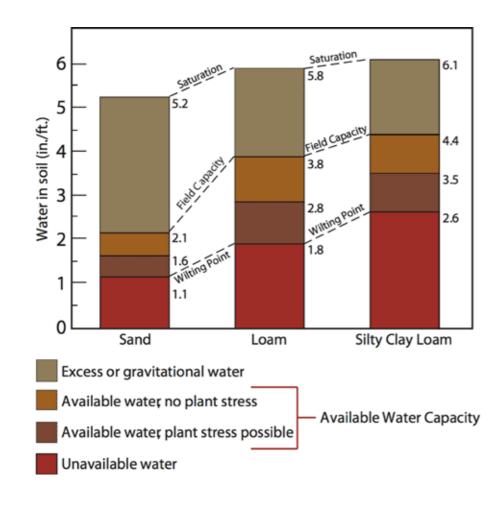
A total of 2.2 billion m3/year of water is supplied to the city per year. The total capacity of these reservoirs has to be increased from 500,000 m3 to 1,200,000 m3.

District 6

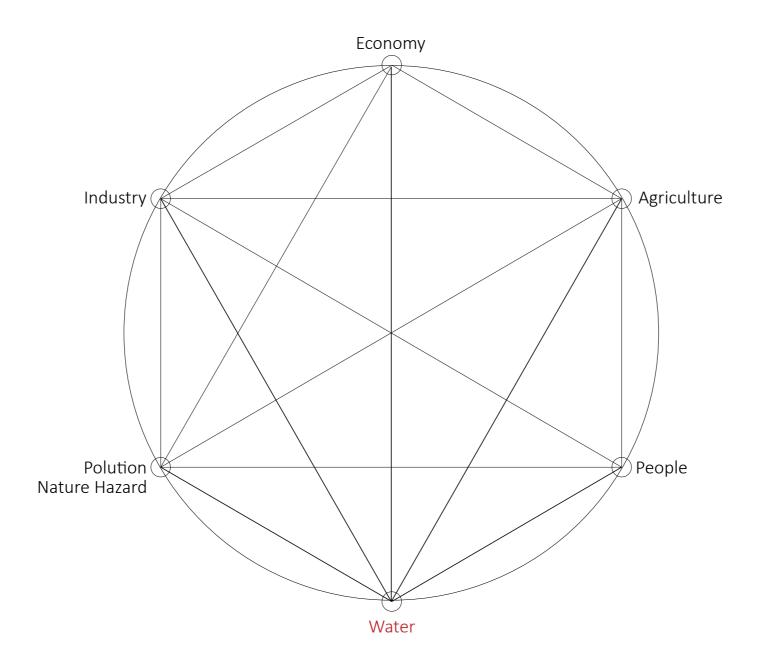
Soil type zonation map



The relation between the soil type and water







Conclusion

Flows	Spaces	People
Continuity on a regional scale	Economically driven	Vulnerable society
Discontinuity in local scale	Poor living conditions	

Intervention

Flows	Spaces	People
Continuity on a regional scale	Economically driven	Vulnerable society
Discontinuity in local scale	Poor living conditions	

Bridging Providing Enhancing

How?

where?

what?

"Spatializing culture is a way of revealing how social relations are grounded by aspects of space and place.

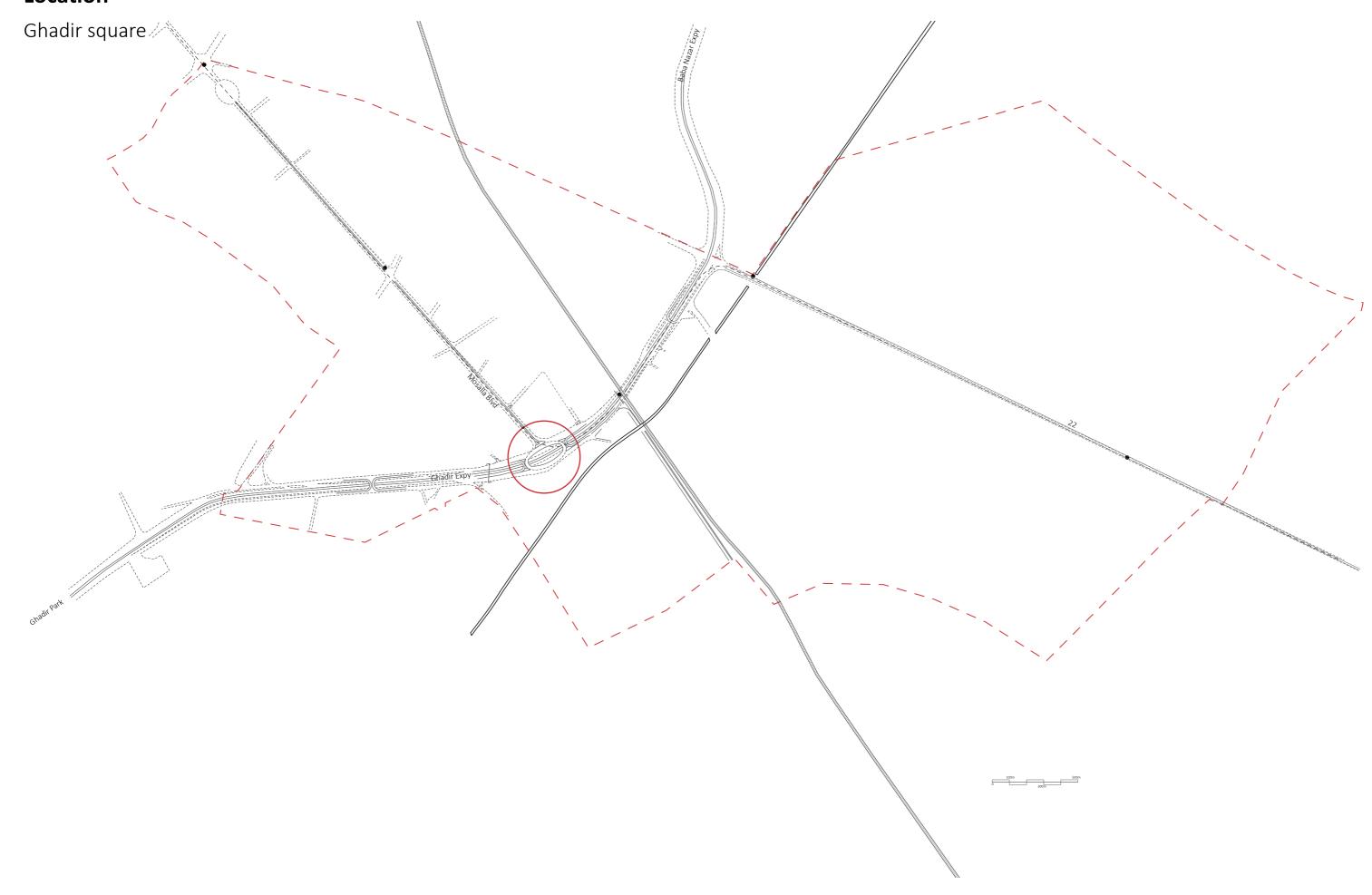
The production of space and the construction of its sociocultural inform the social complexity of interactions of people, the built environment and how everyday realities are enacted.

The activities people engage in, the meanings they give to spaces, and the opportunities.

are all informed by the complex dynamics embodied in places and spaces. Behavior settings whereby certain settings inform if not enforce certain types of behaviors." - Setha Low (Gieseking, et al., 2014)

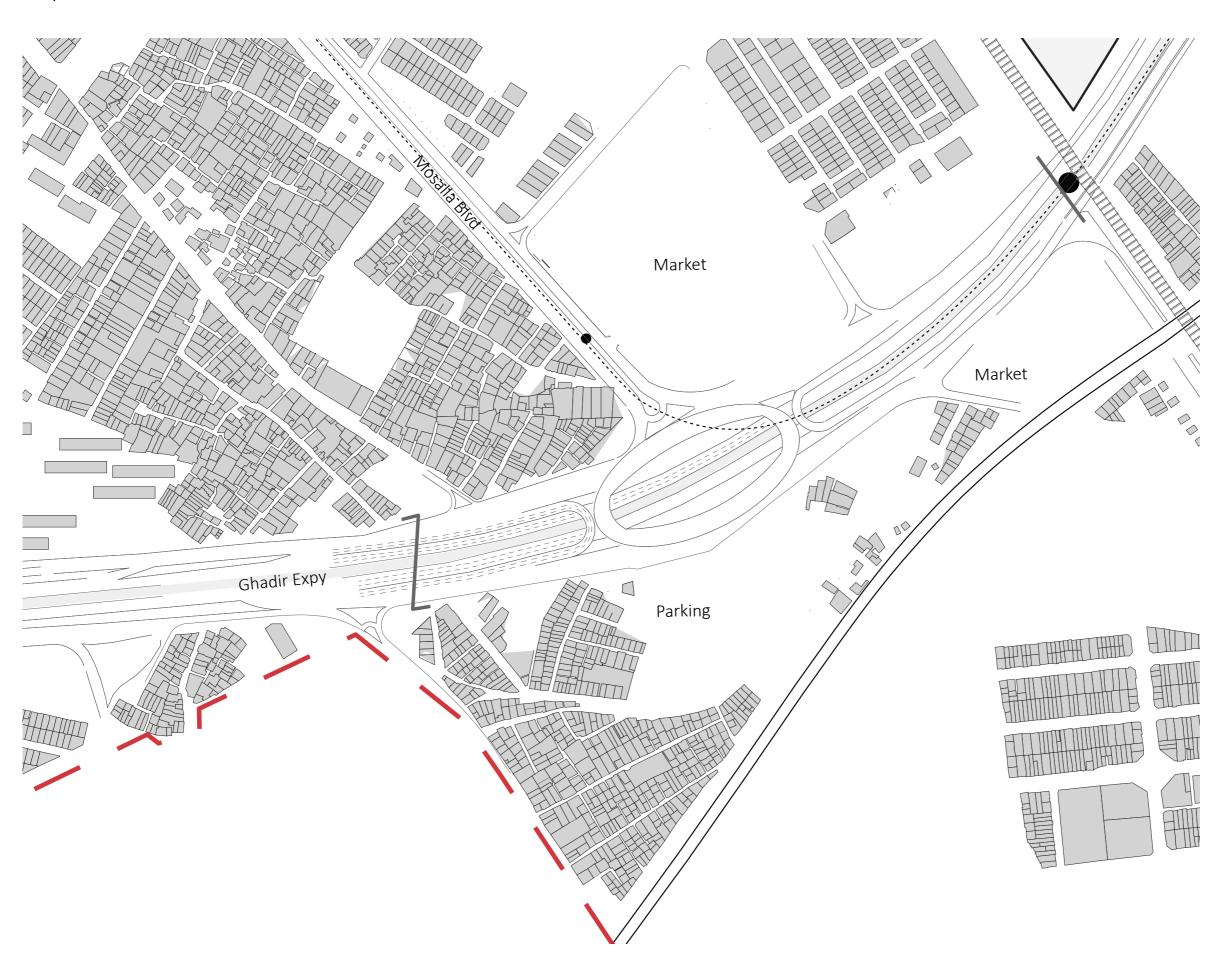
where?

Location



Site location

Ghadir square





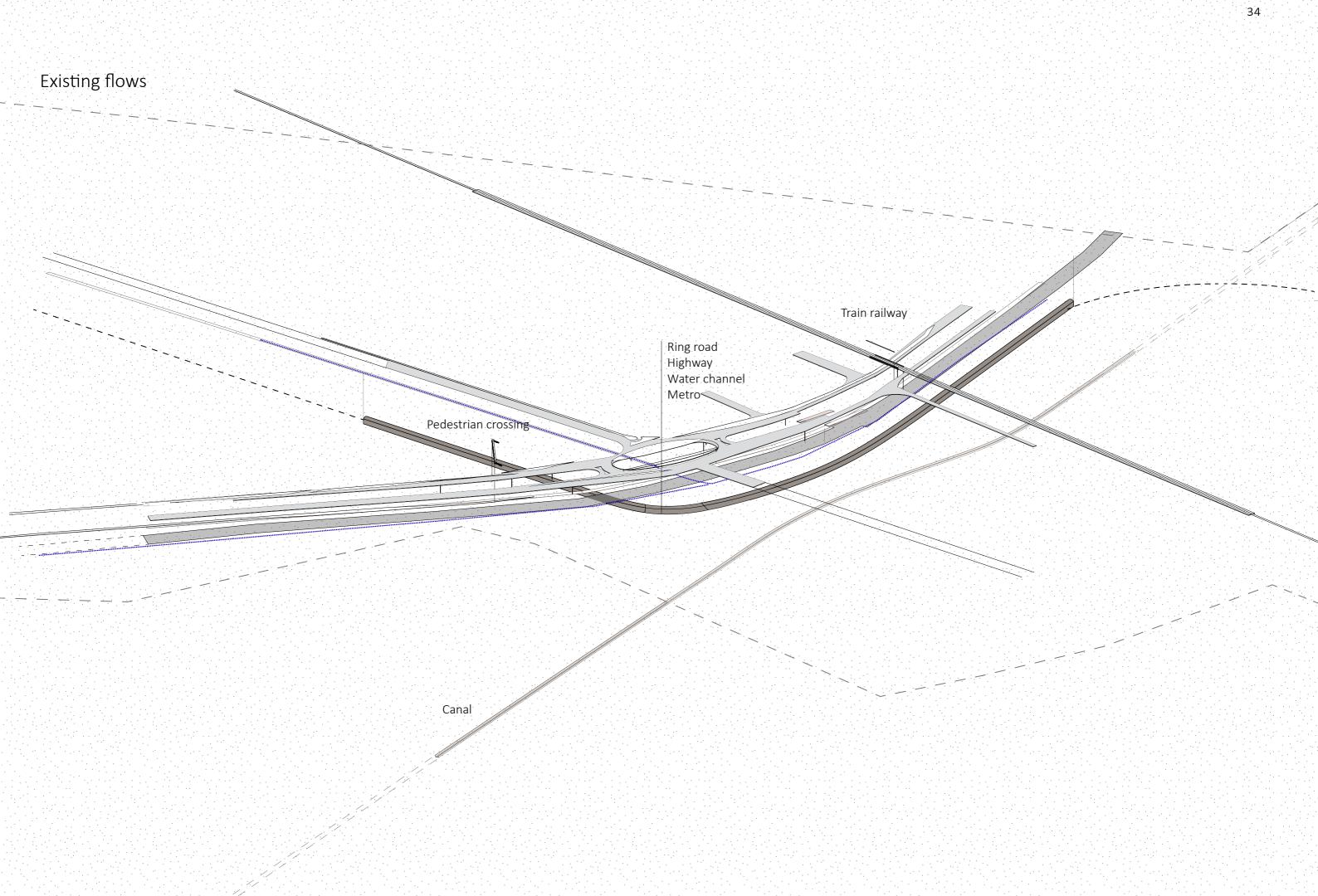




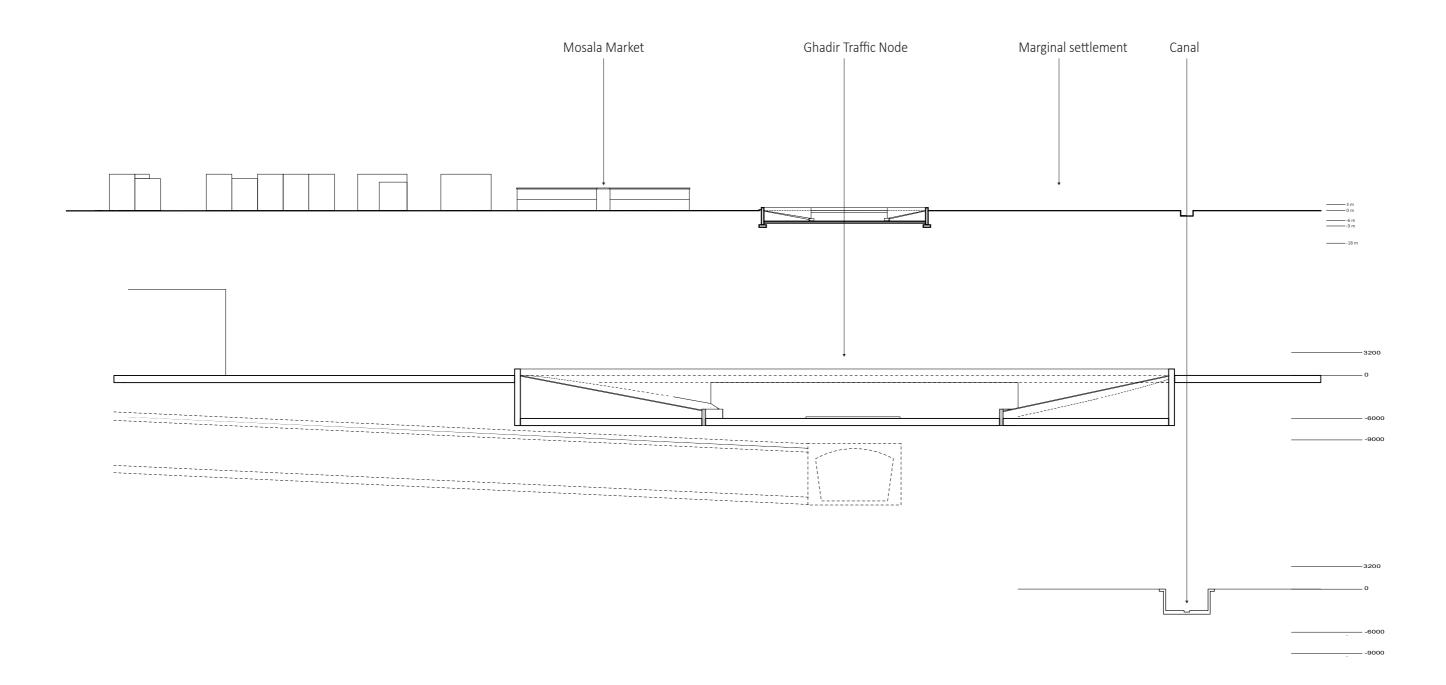




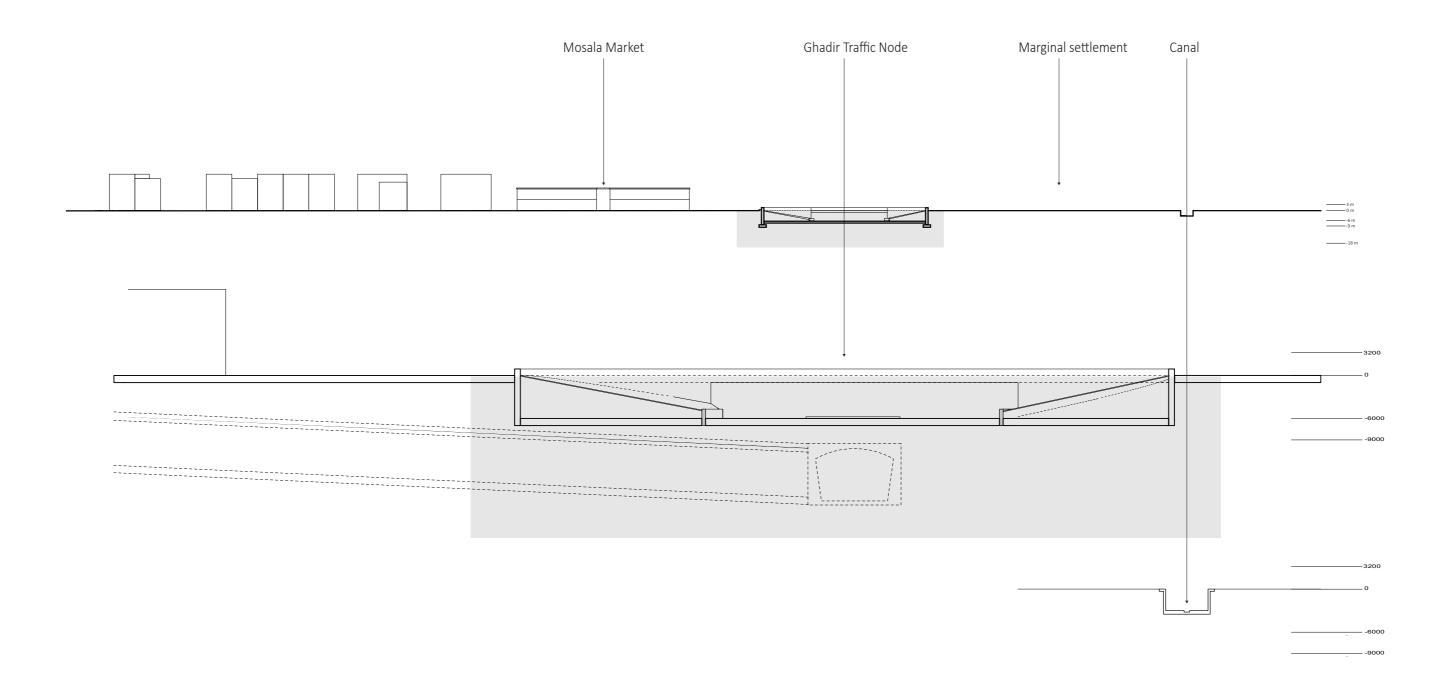




Street section

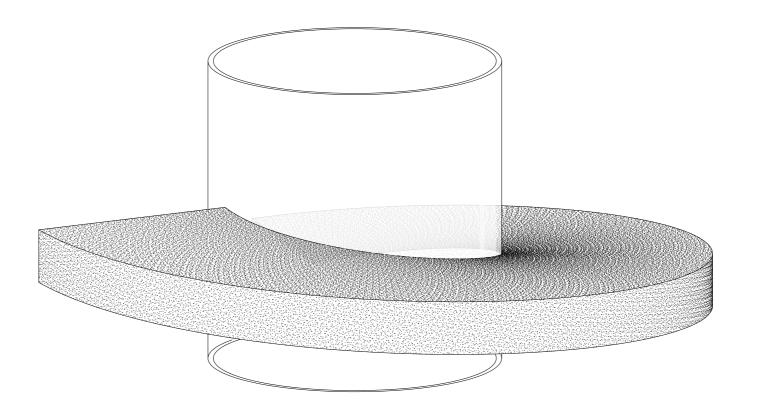


Intervention

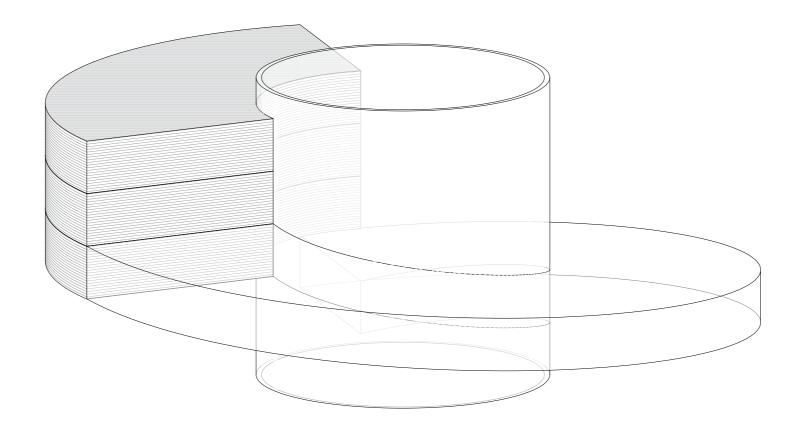


Program

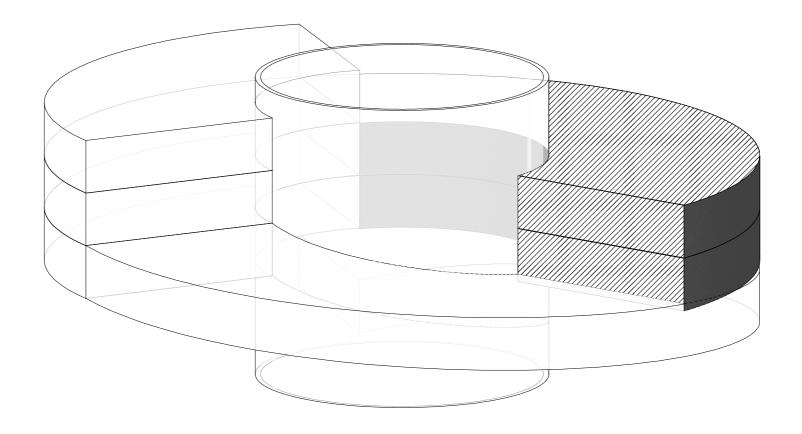
water filtration system



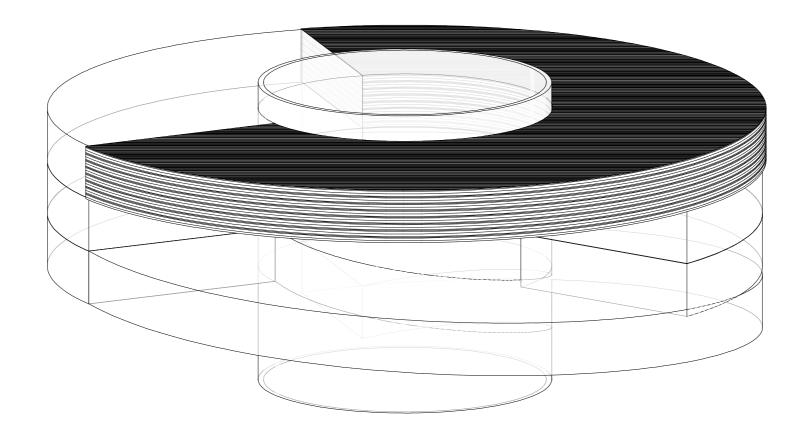
Metro station



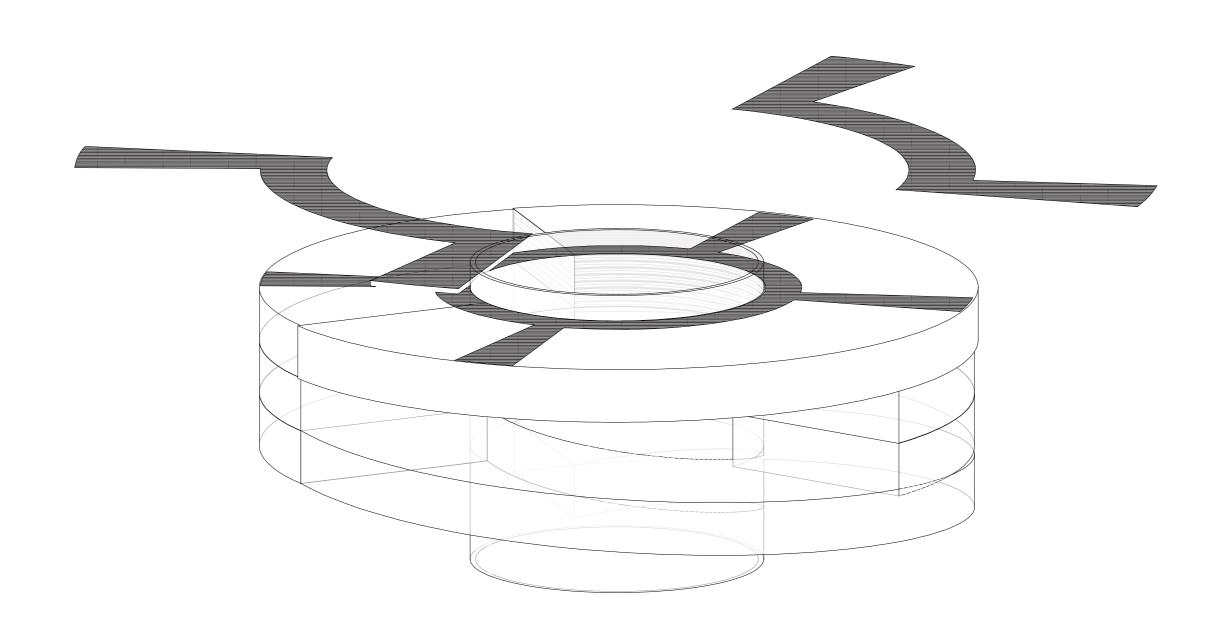
Education center



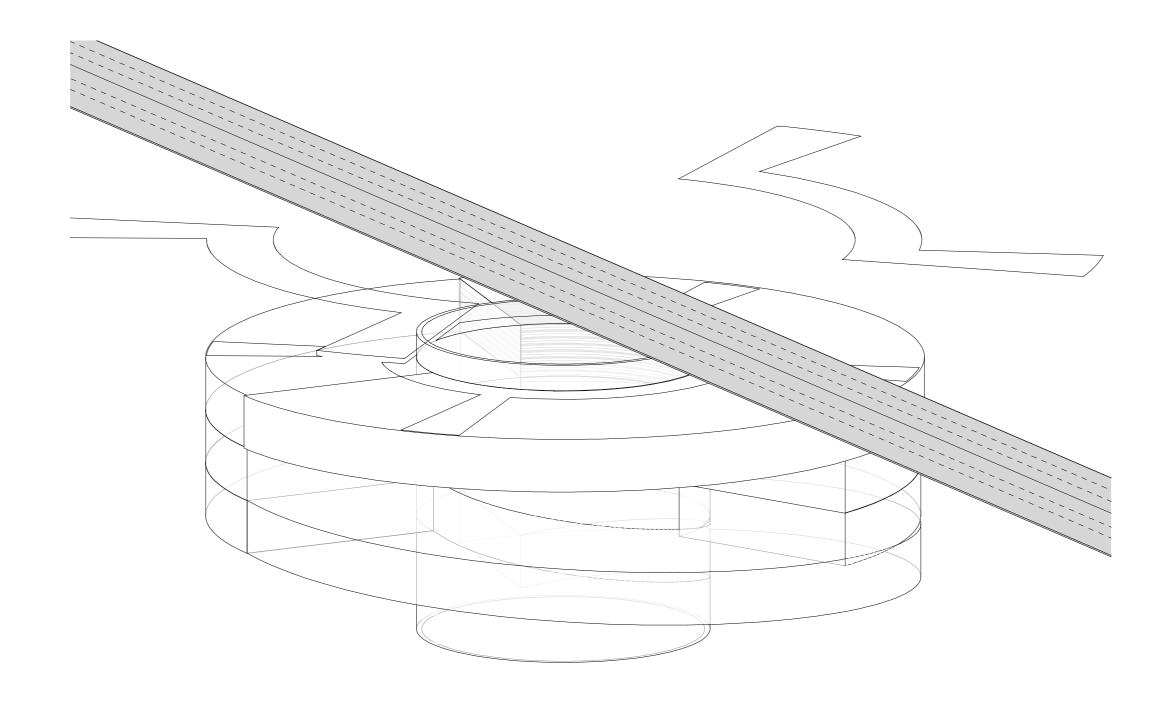
Market



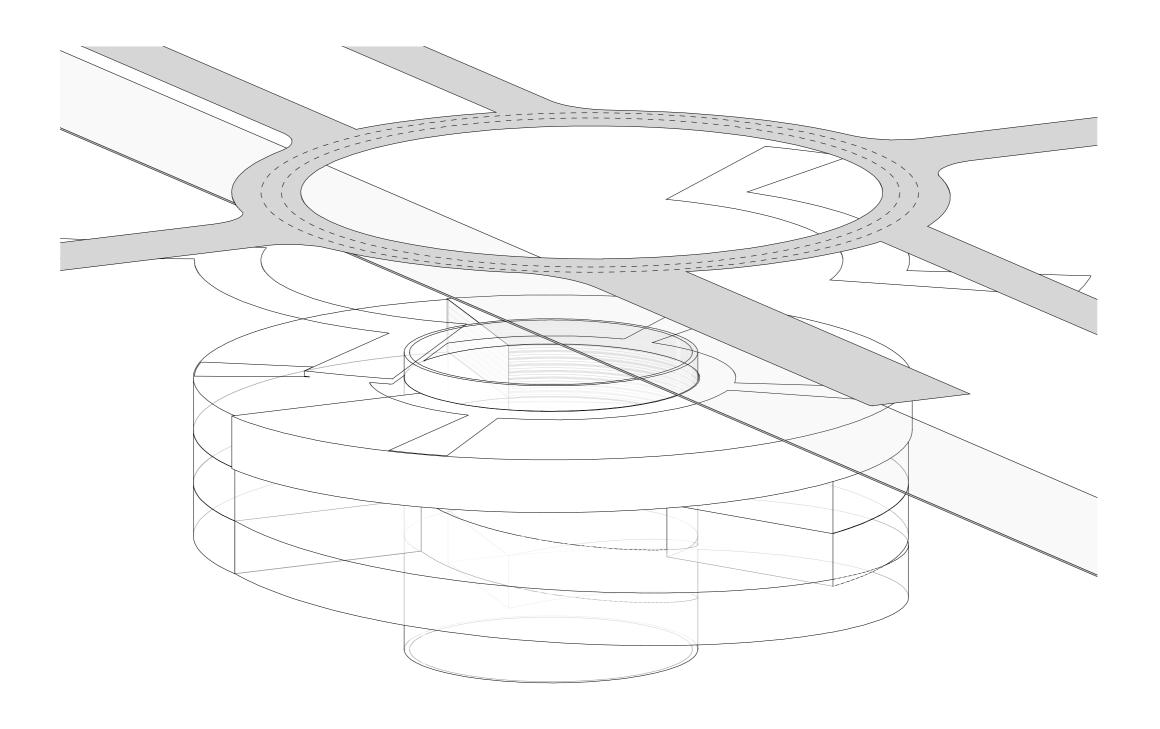
Bridges



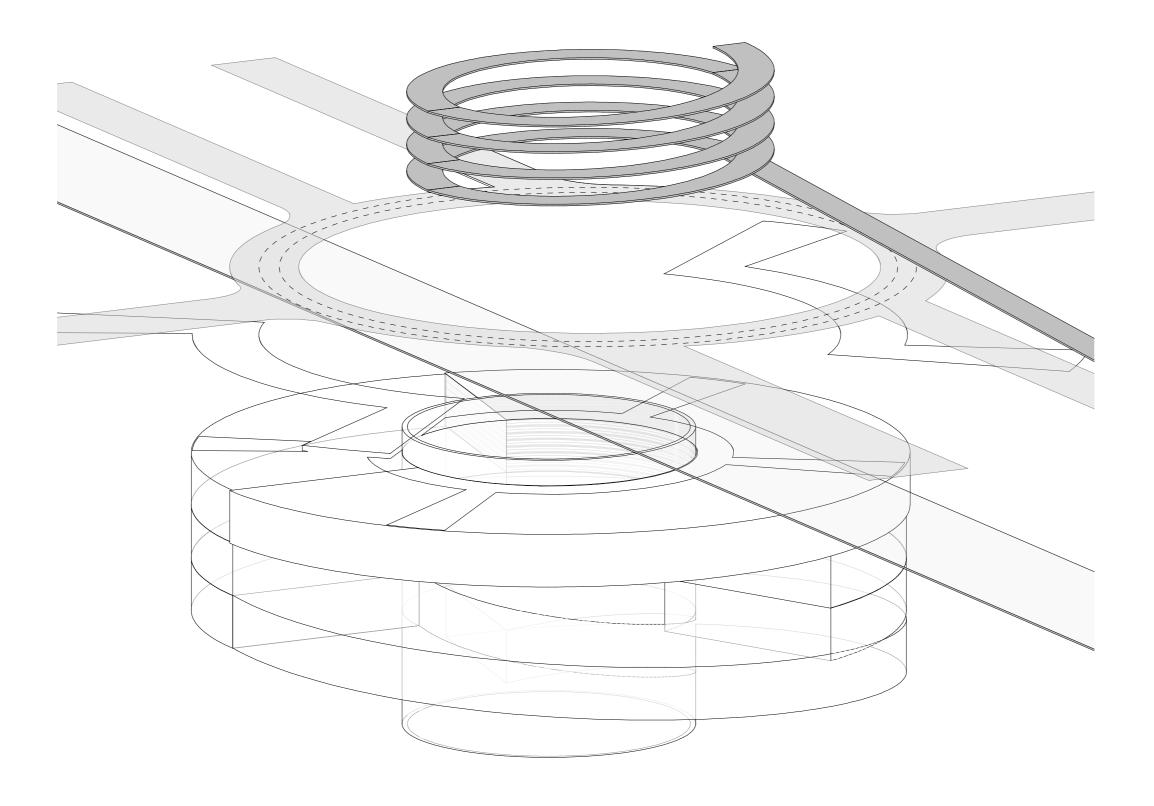
Highway



Roundabout

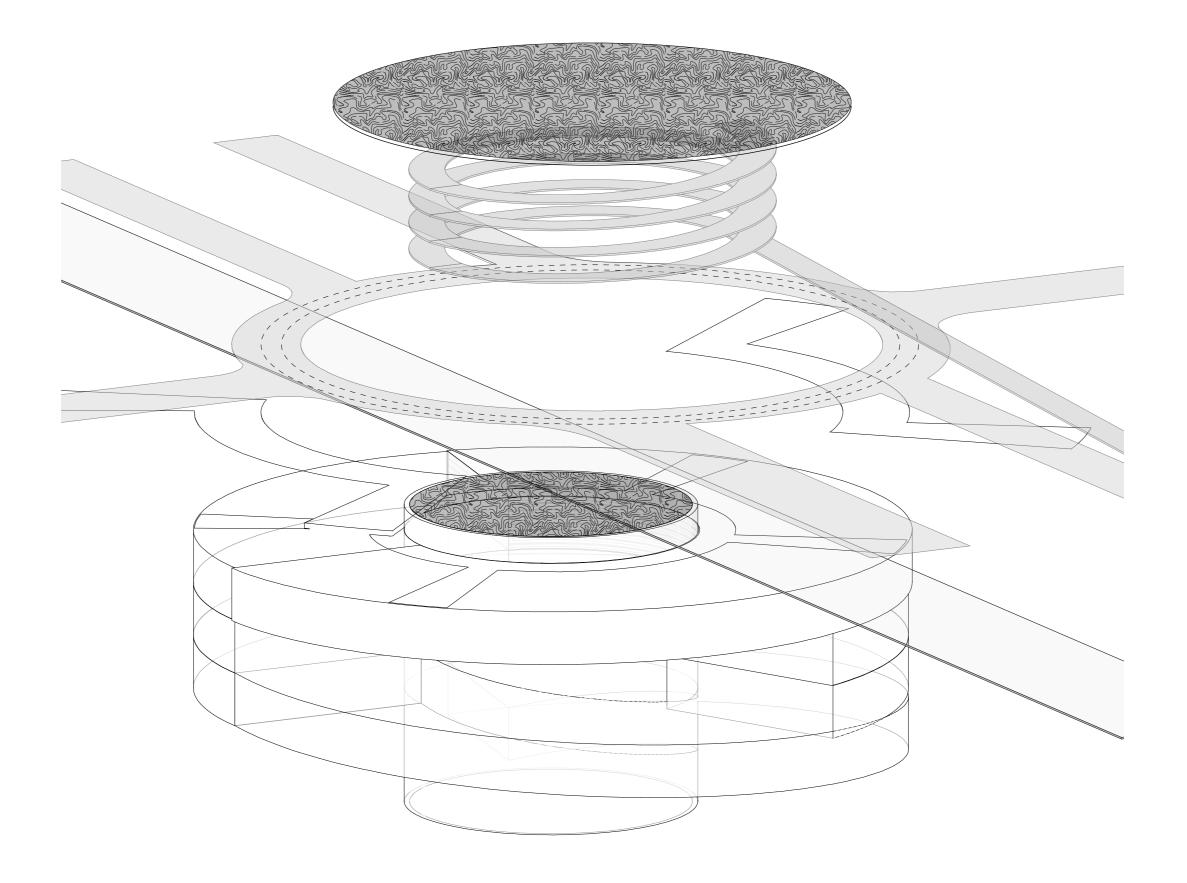


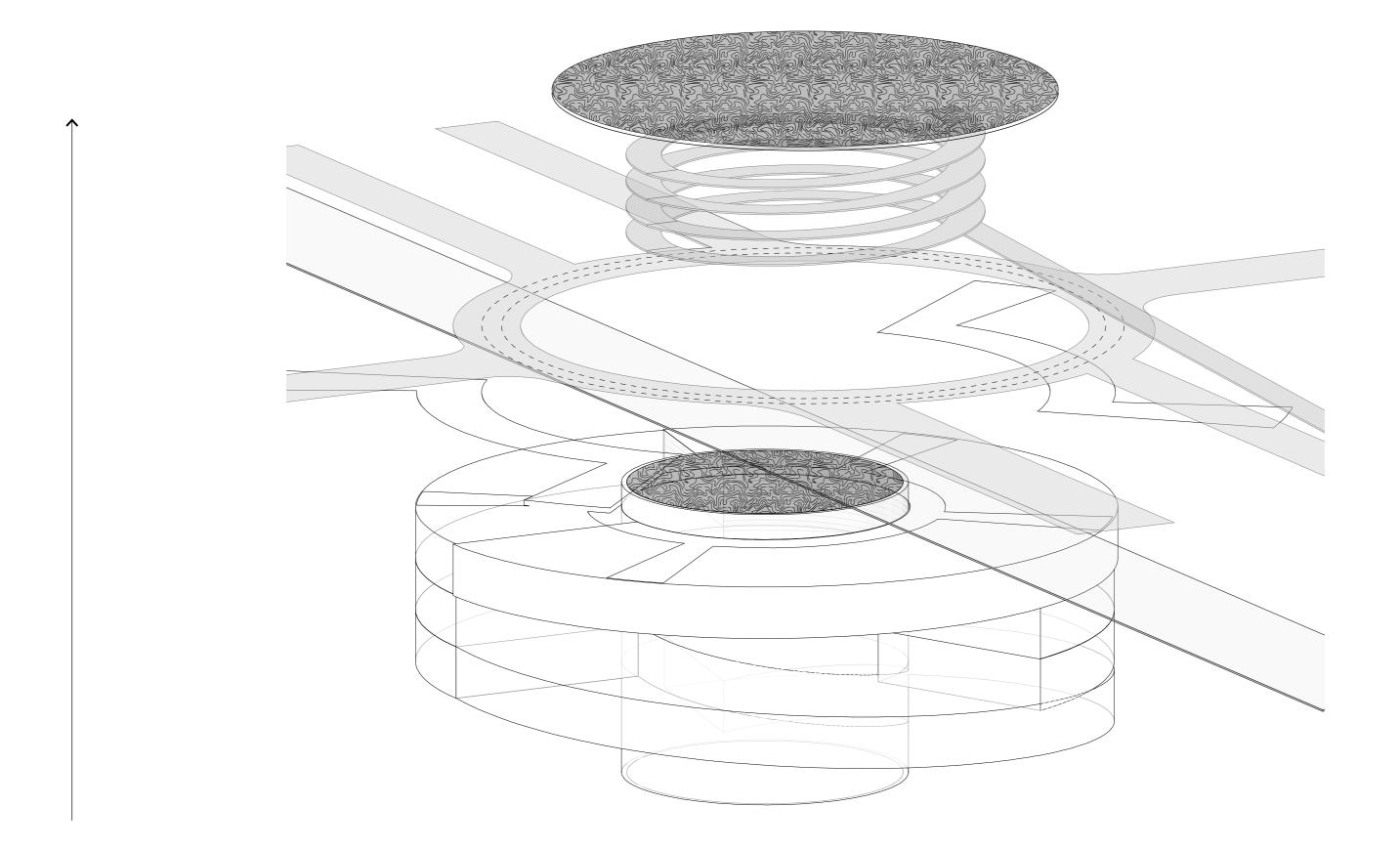
Parking



Program

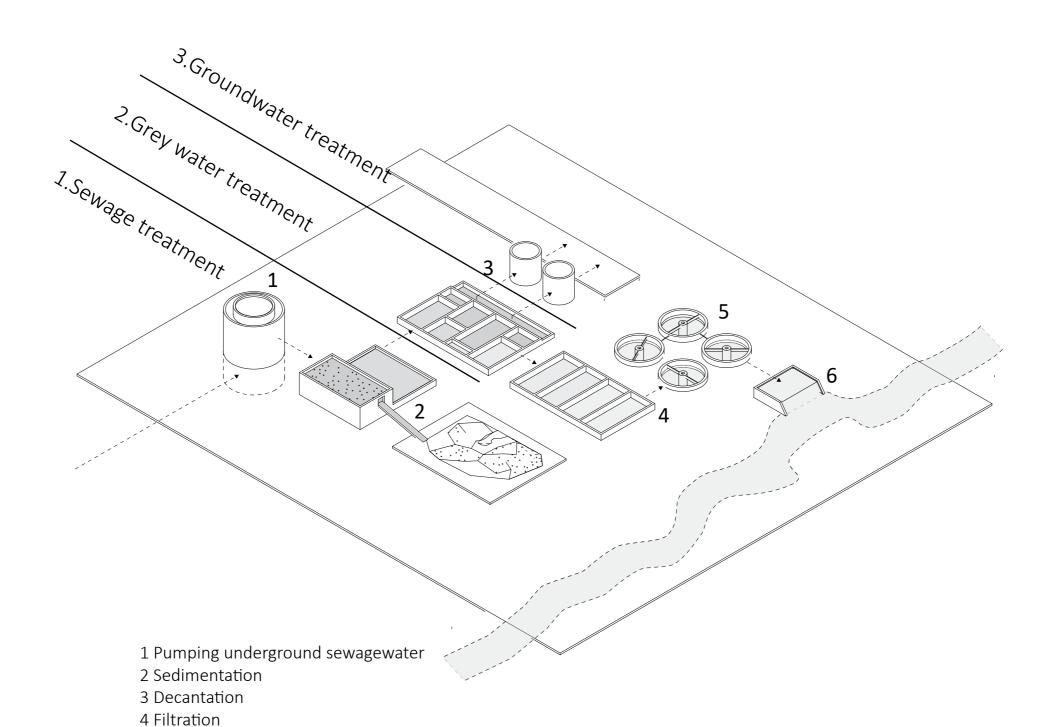
Communal spaces





Water filtration system

Water filtration systems

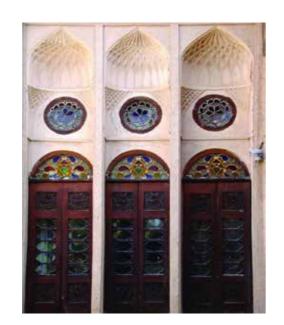


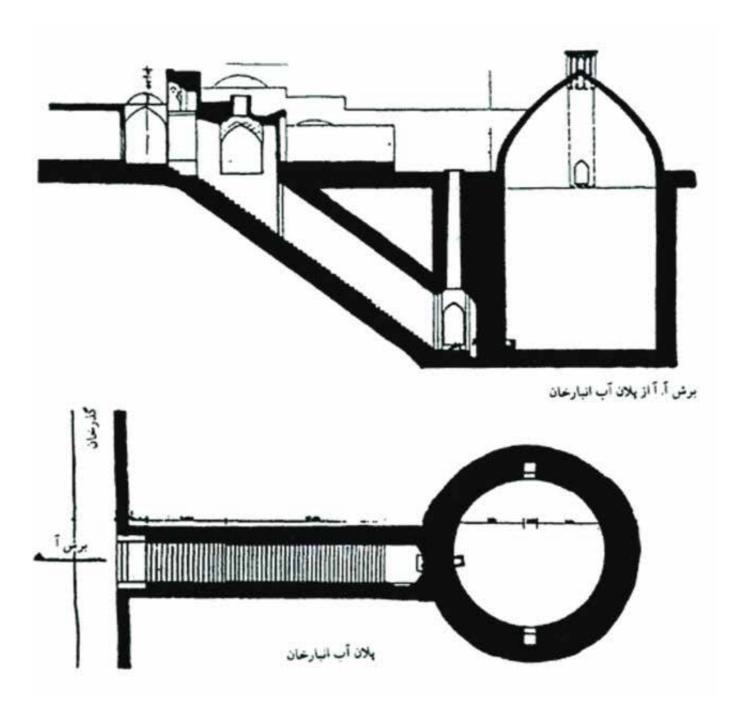
5 Mechanical filtration

6 Disinfection

Iranian cistern

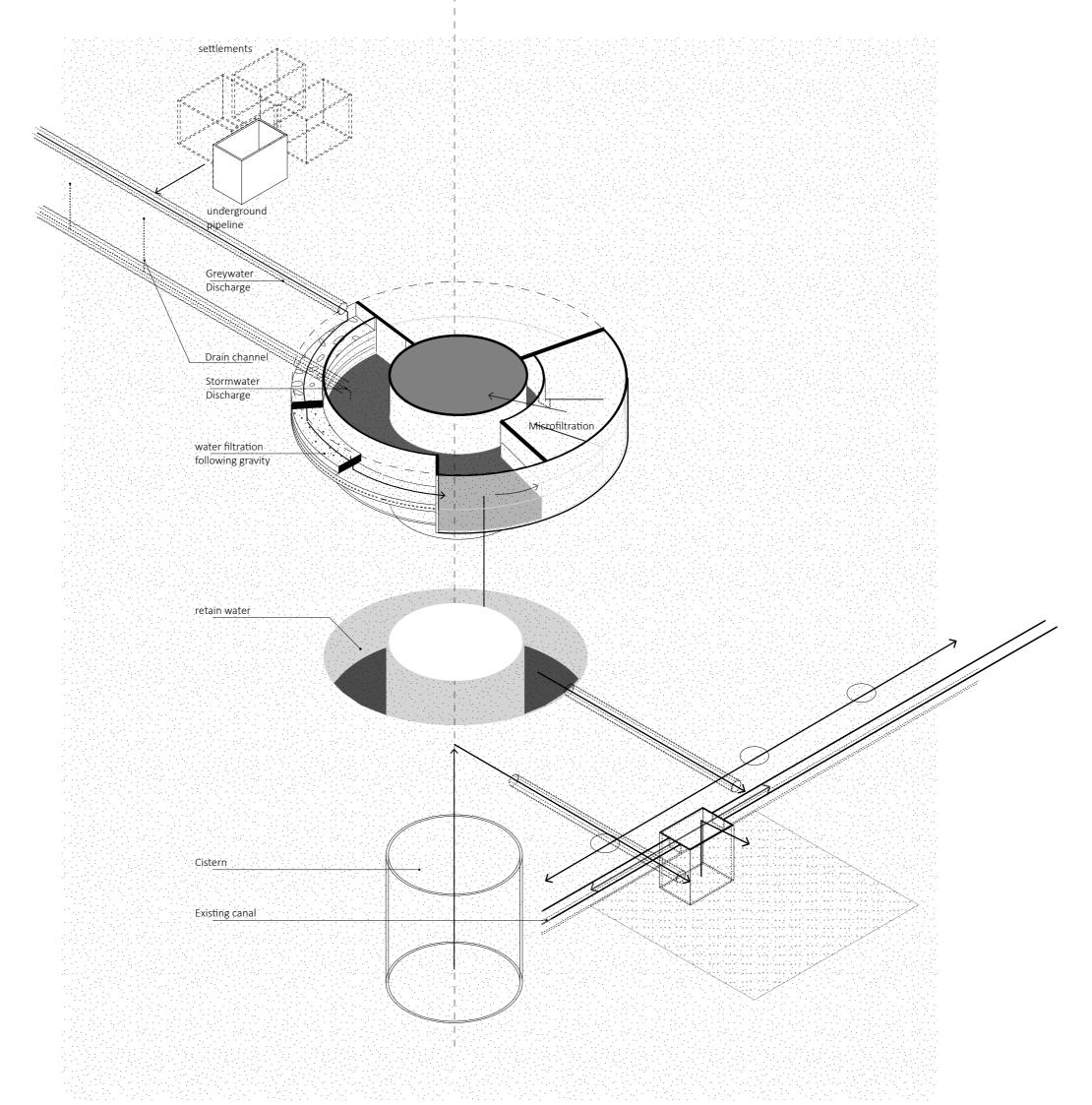






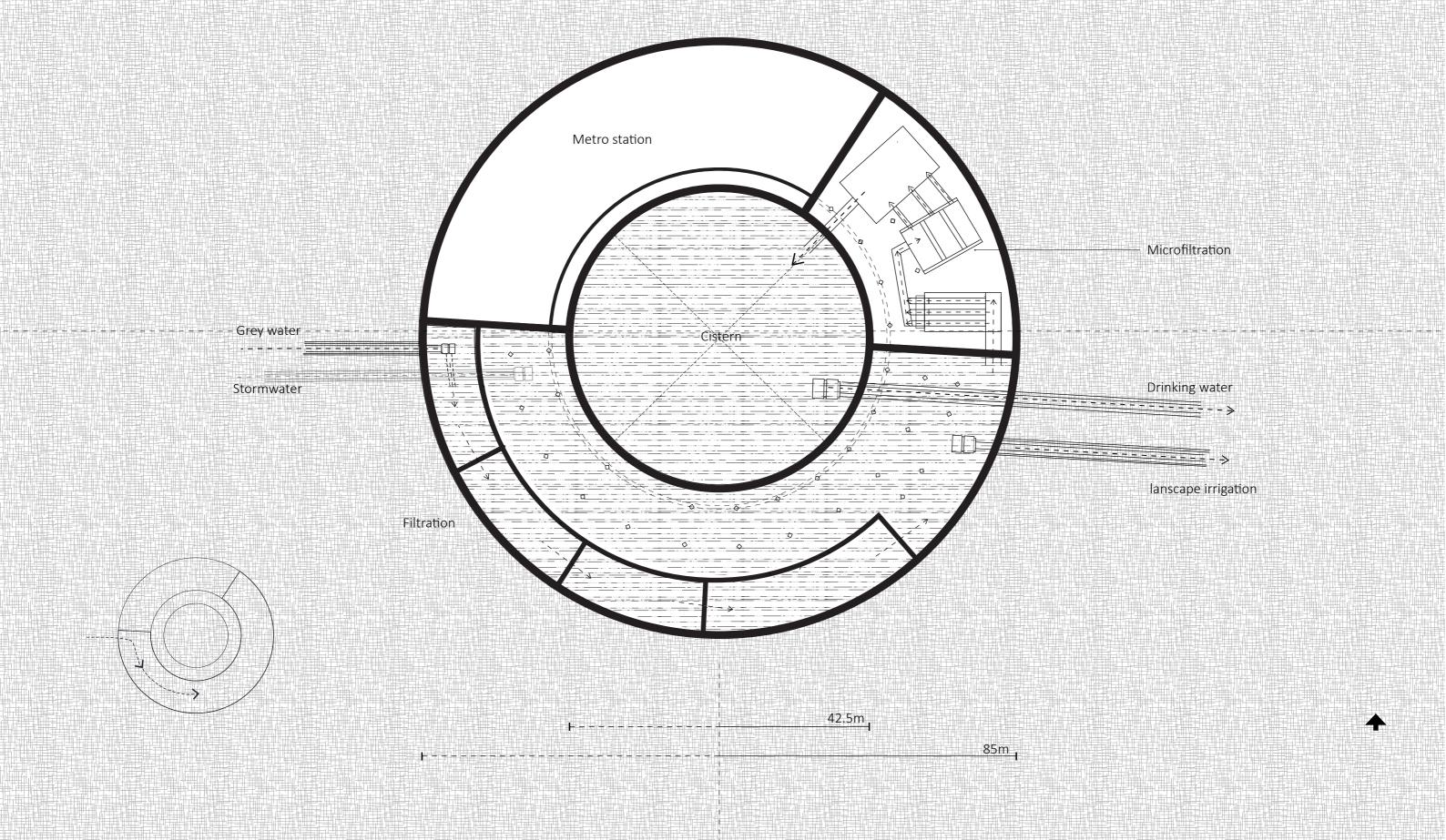
Design

Water filtration systems



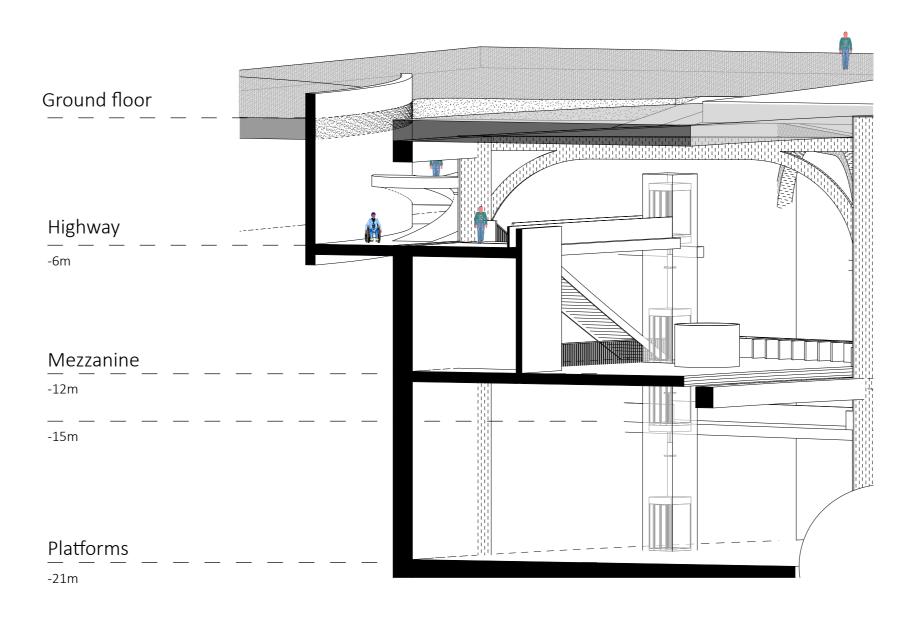
Water filtration system

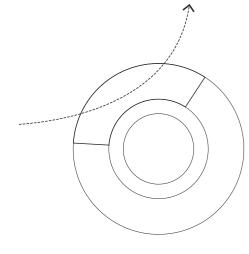
Plan

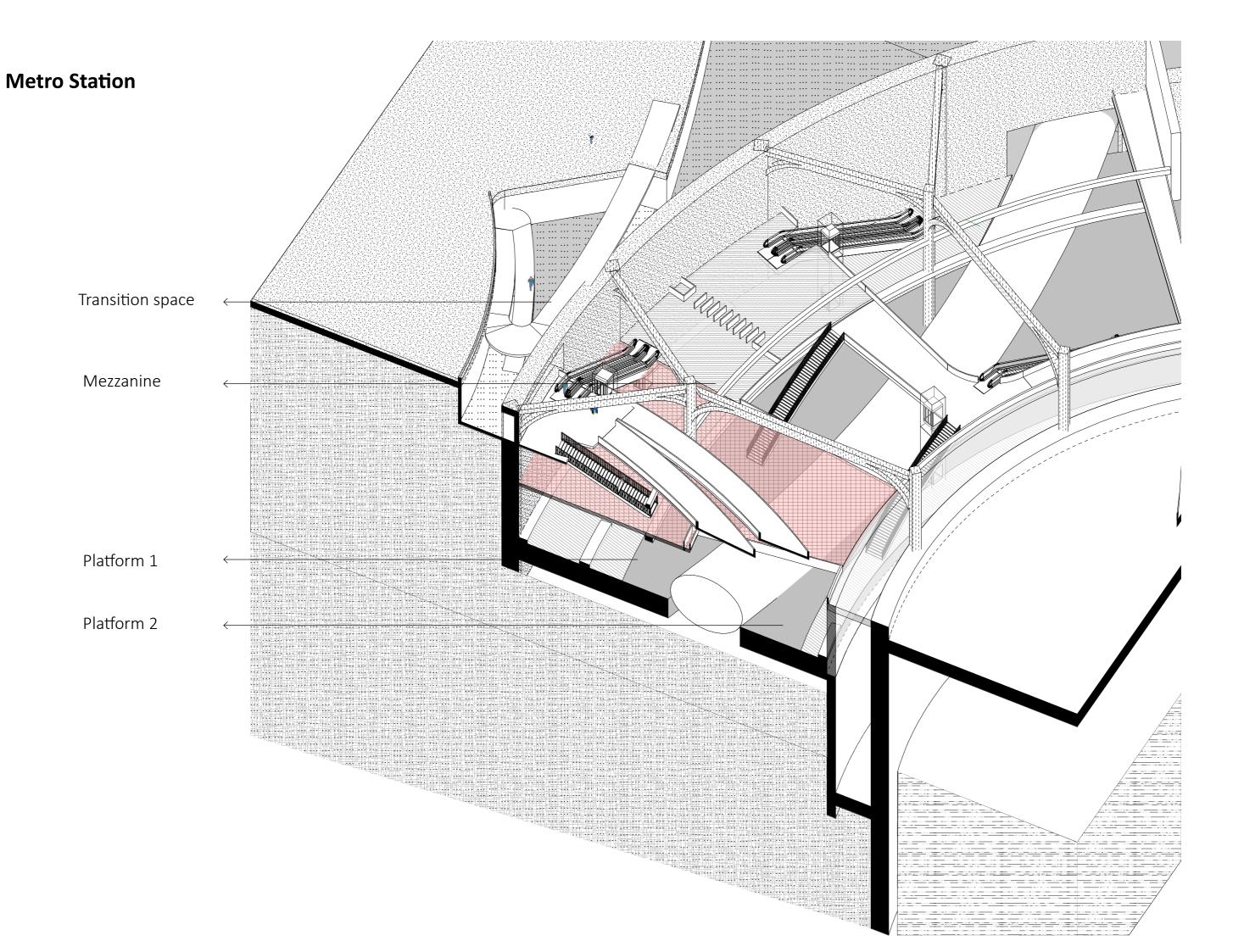


Metro station

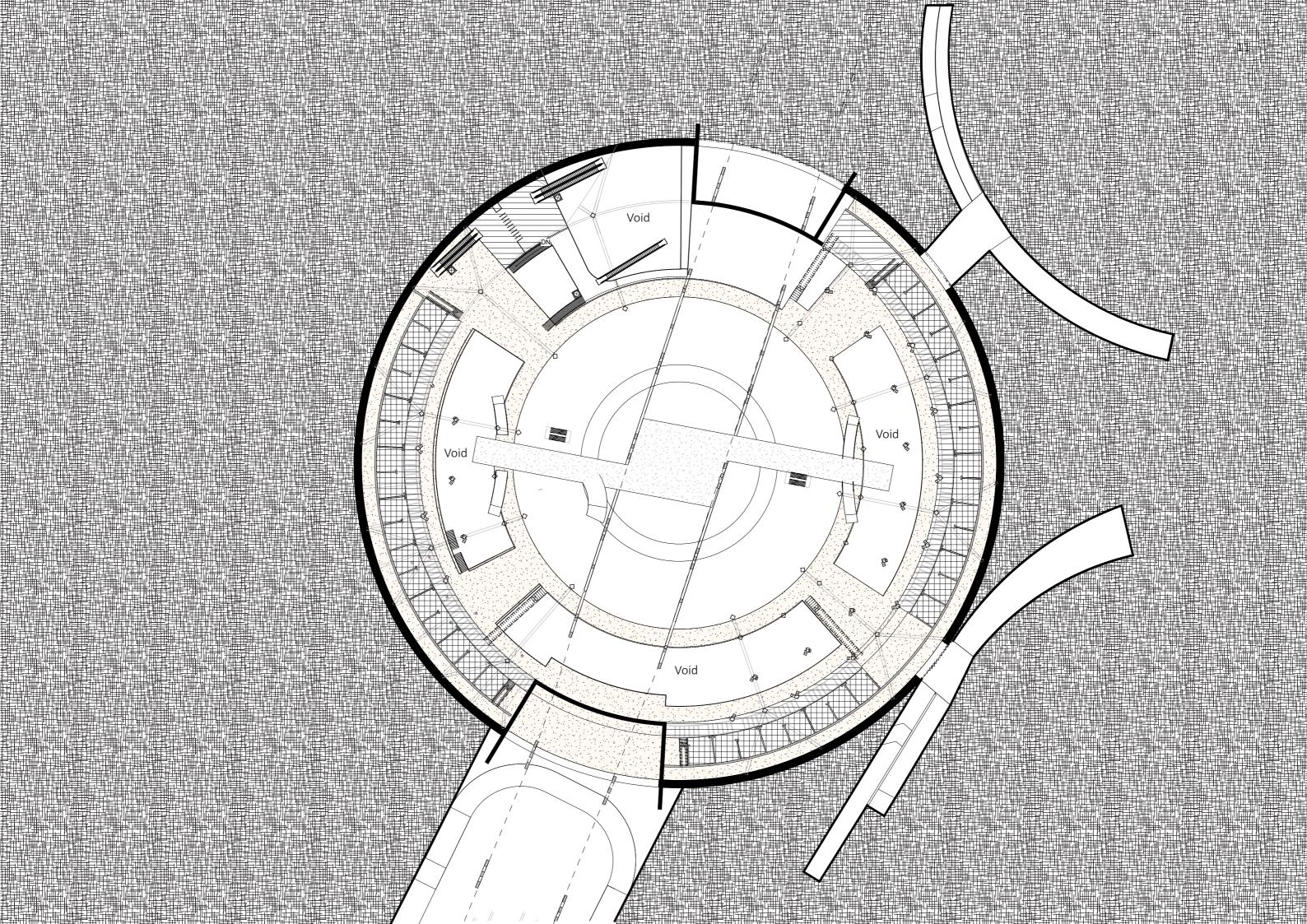
Metro Station

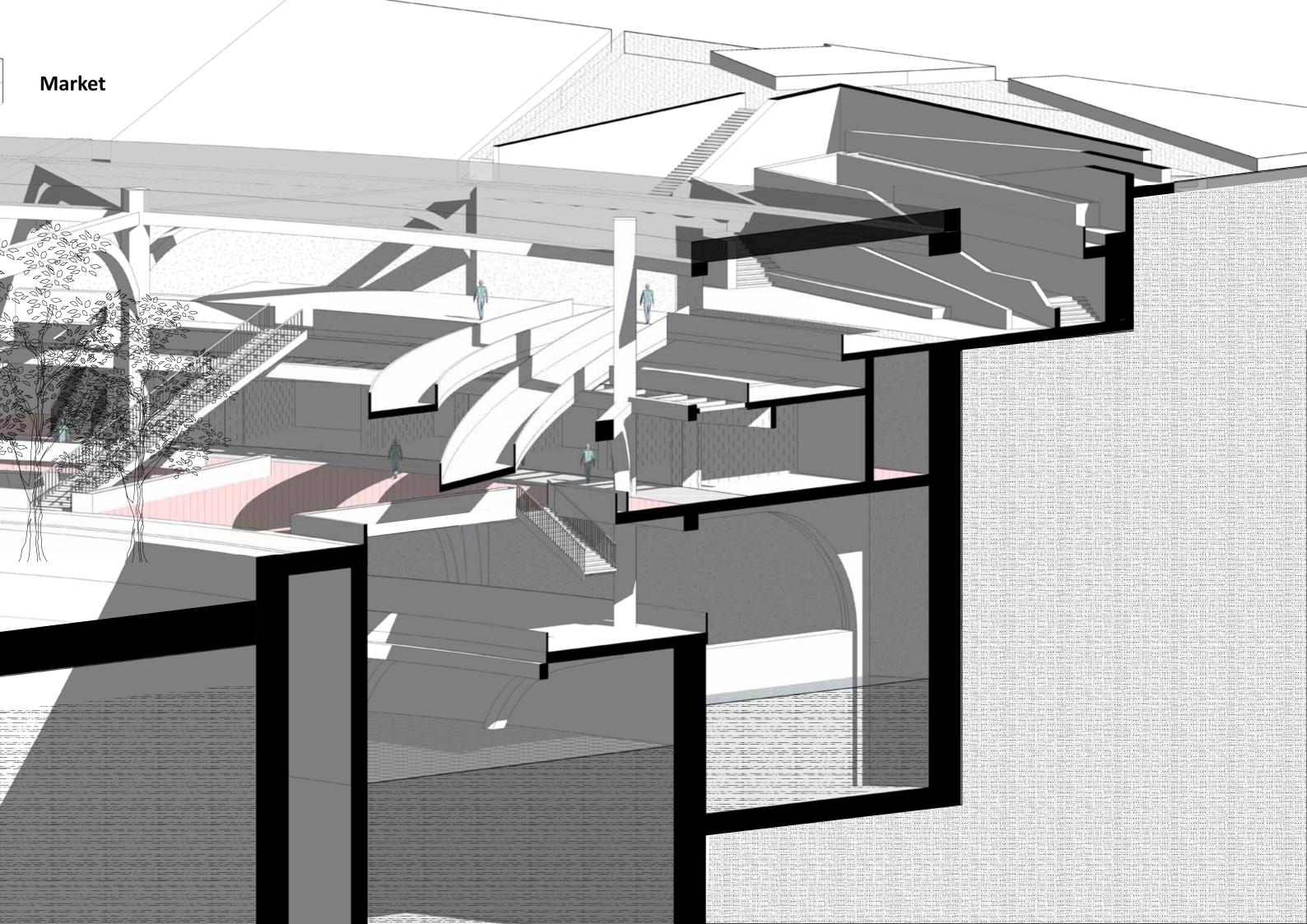






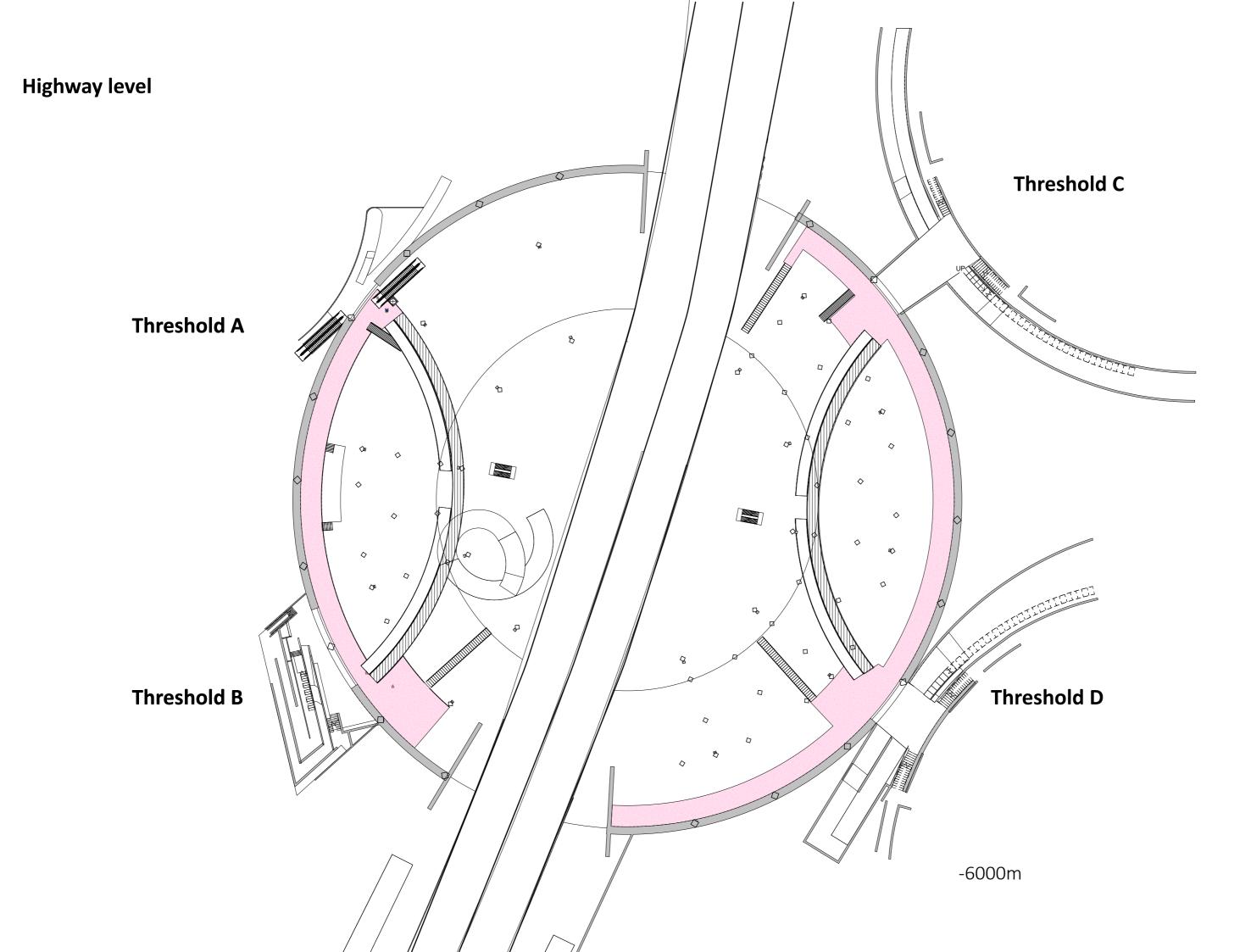
Market

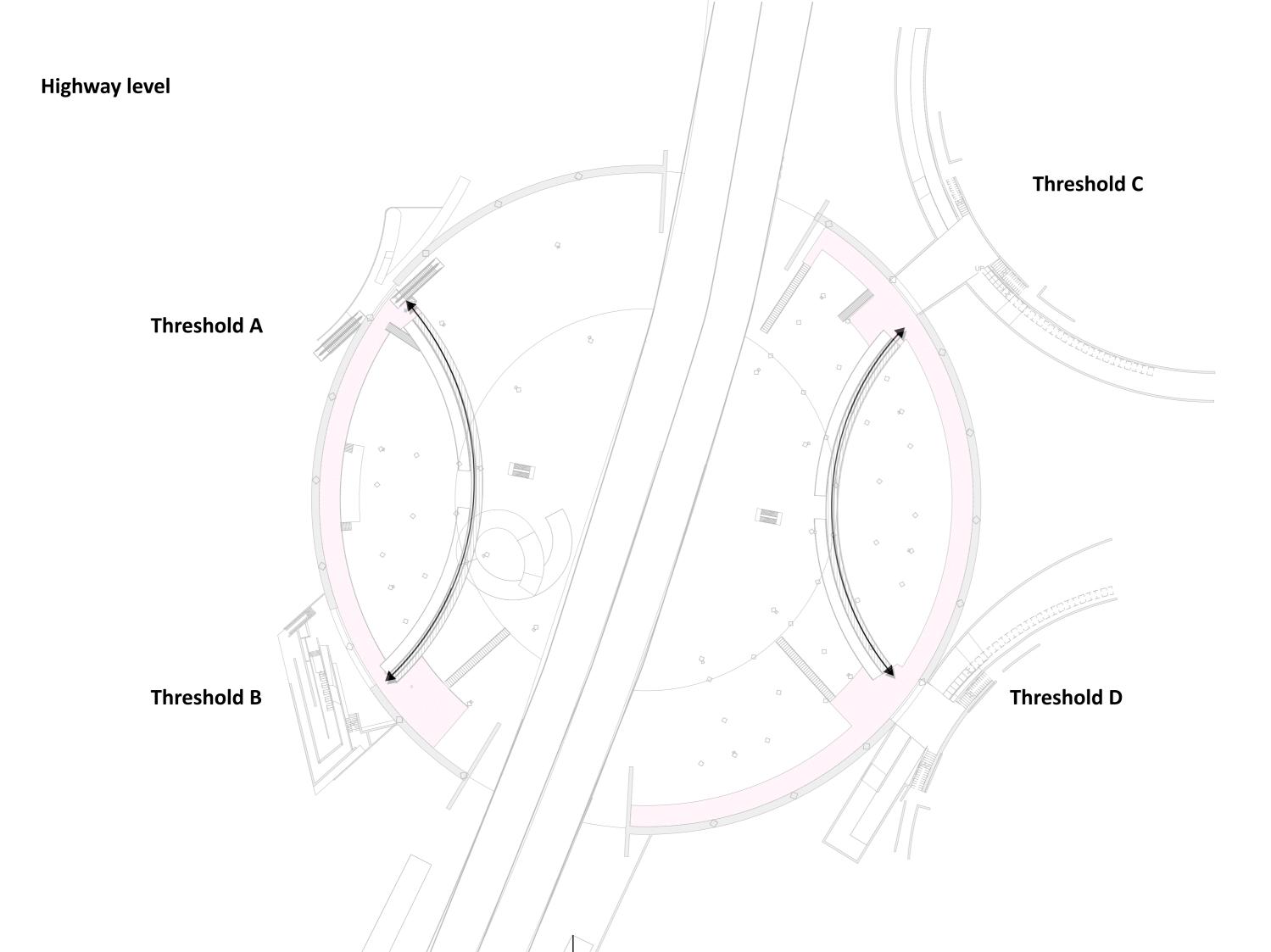




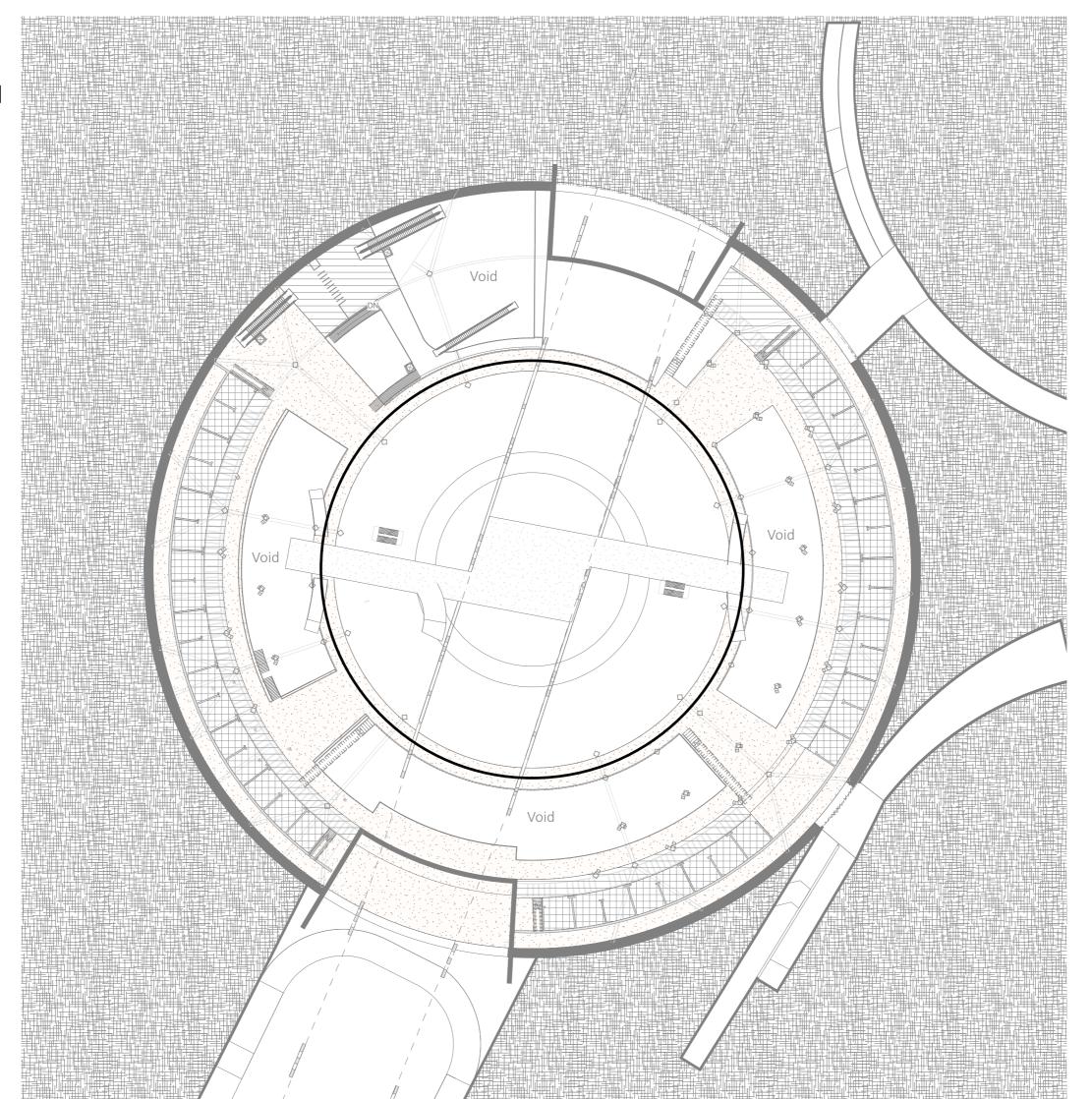
Highway and Threshold



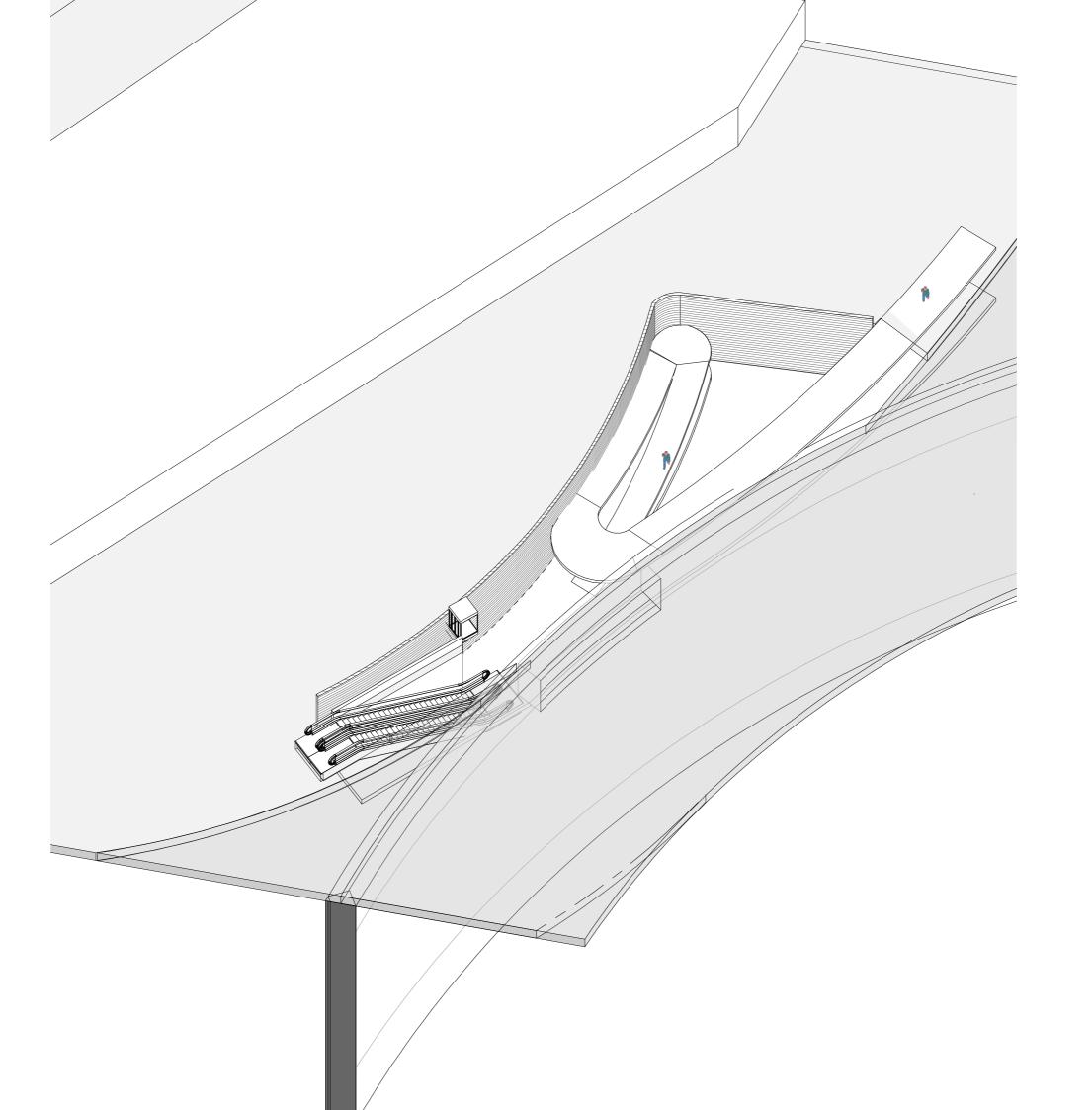




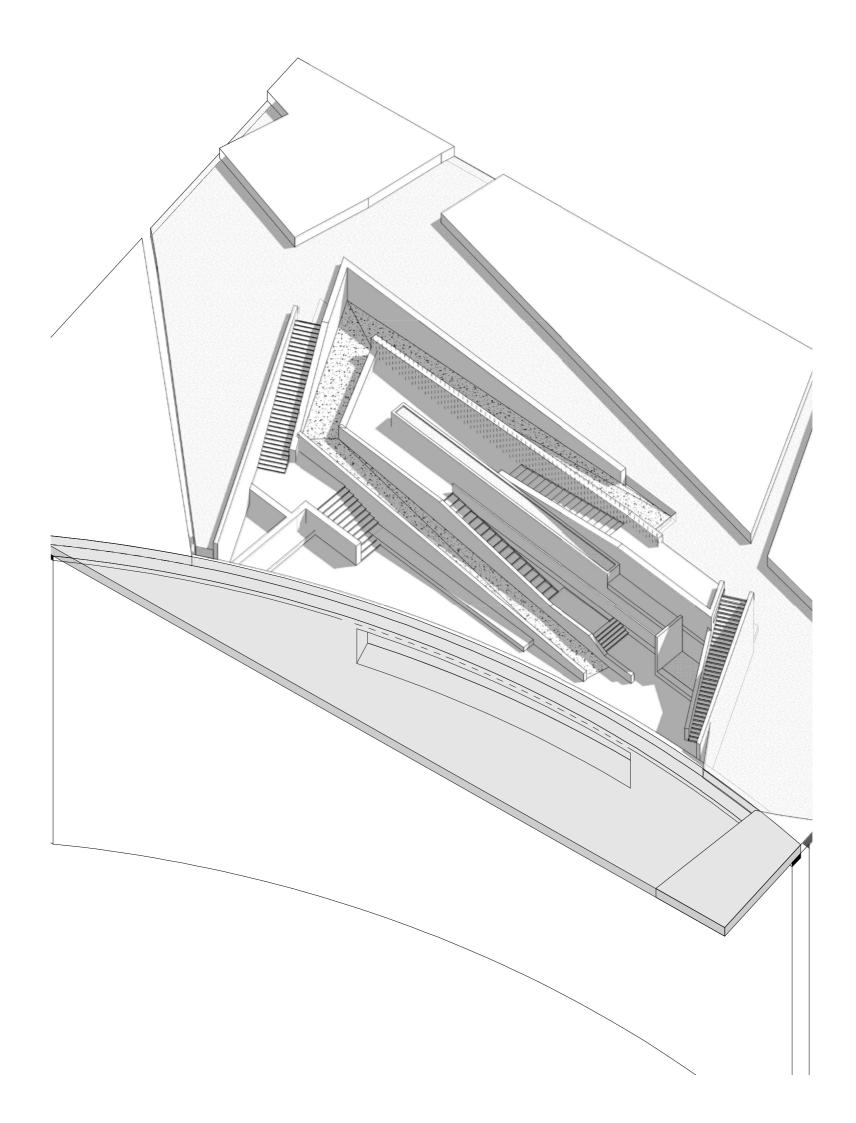
Mezzanine level

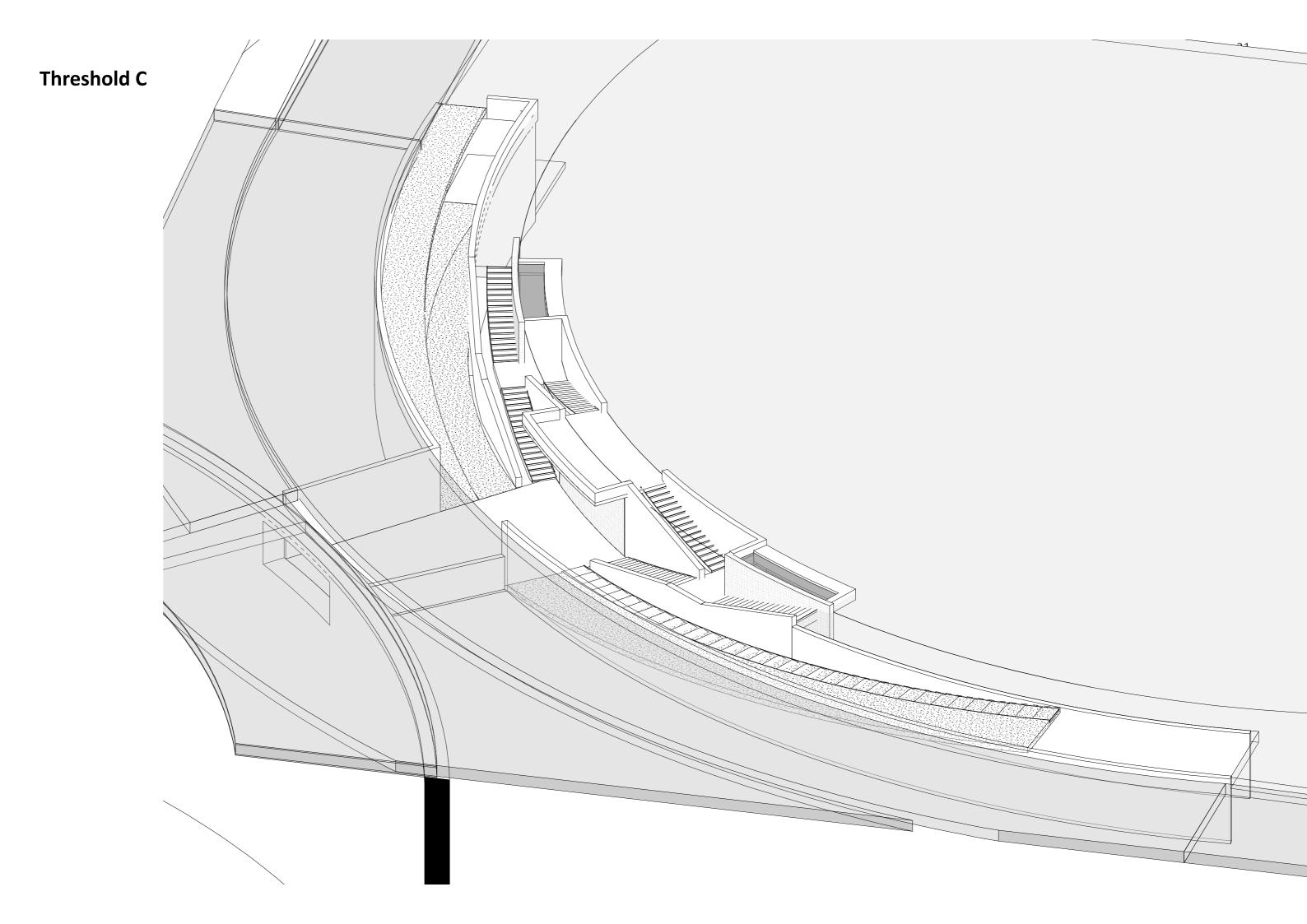


Threshold A

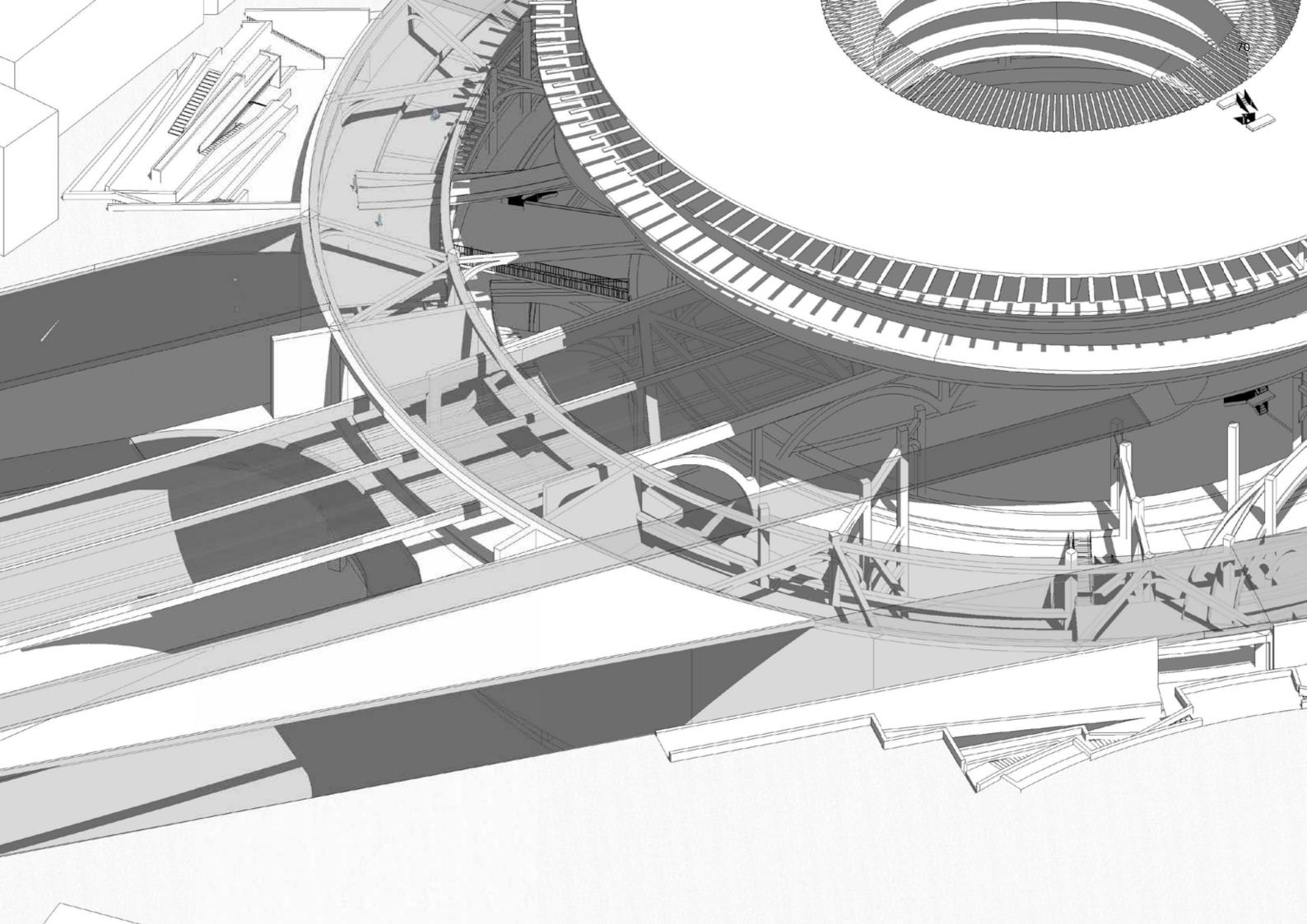


Threshold B





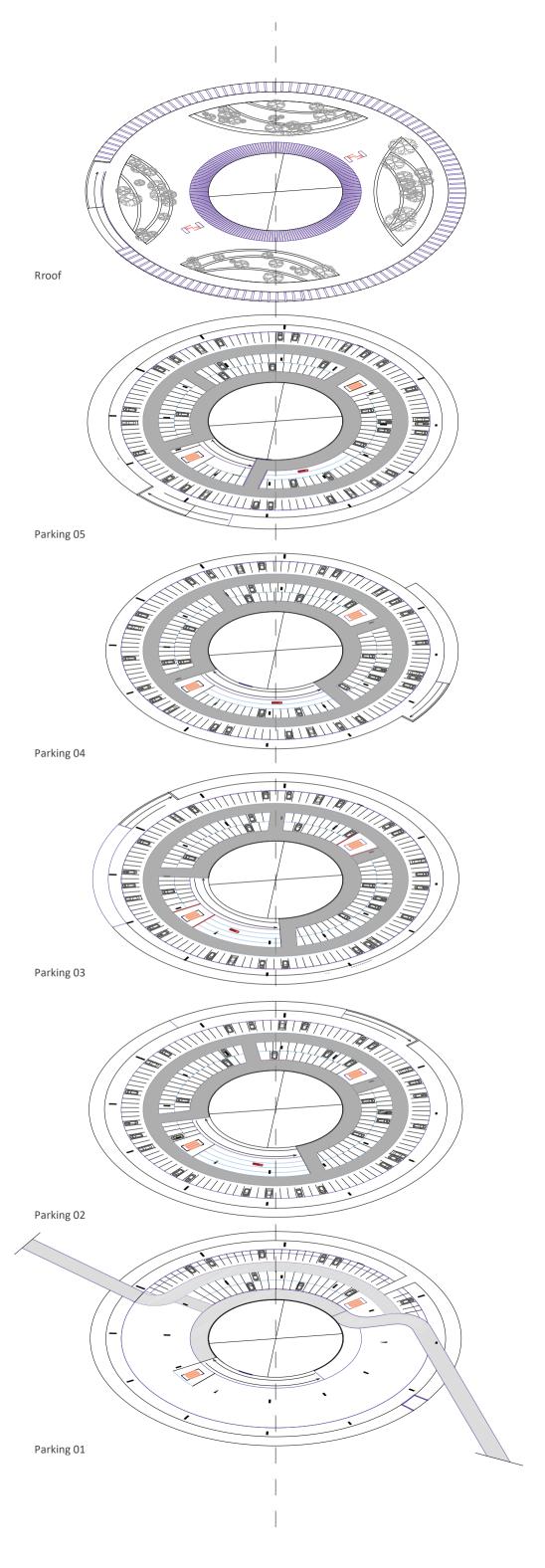
Threshold D



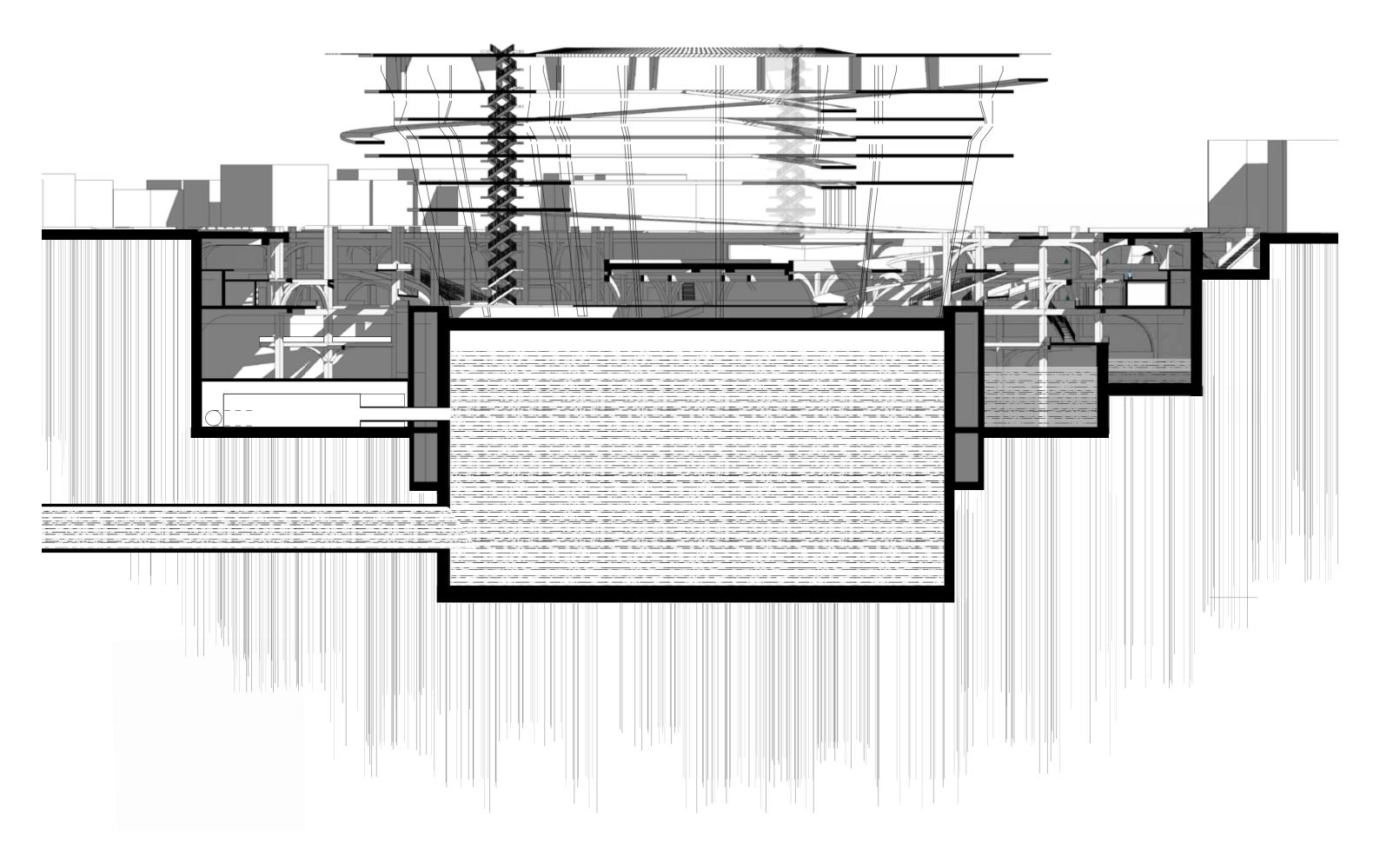


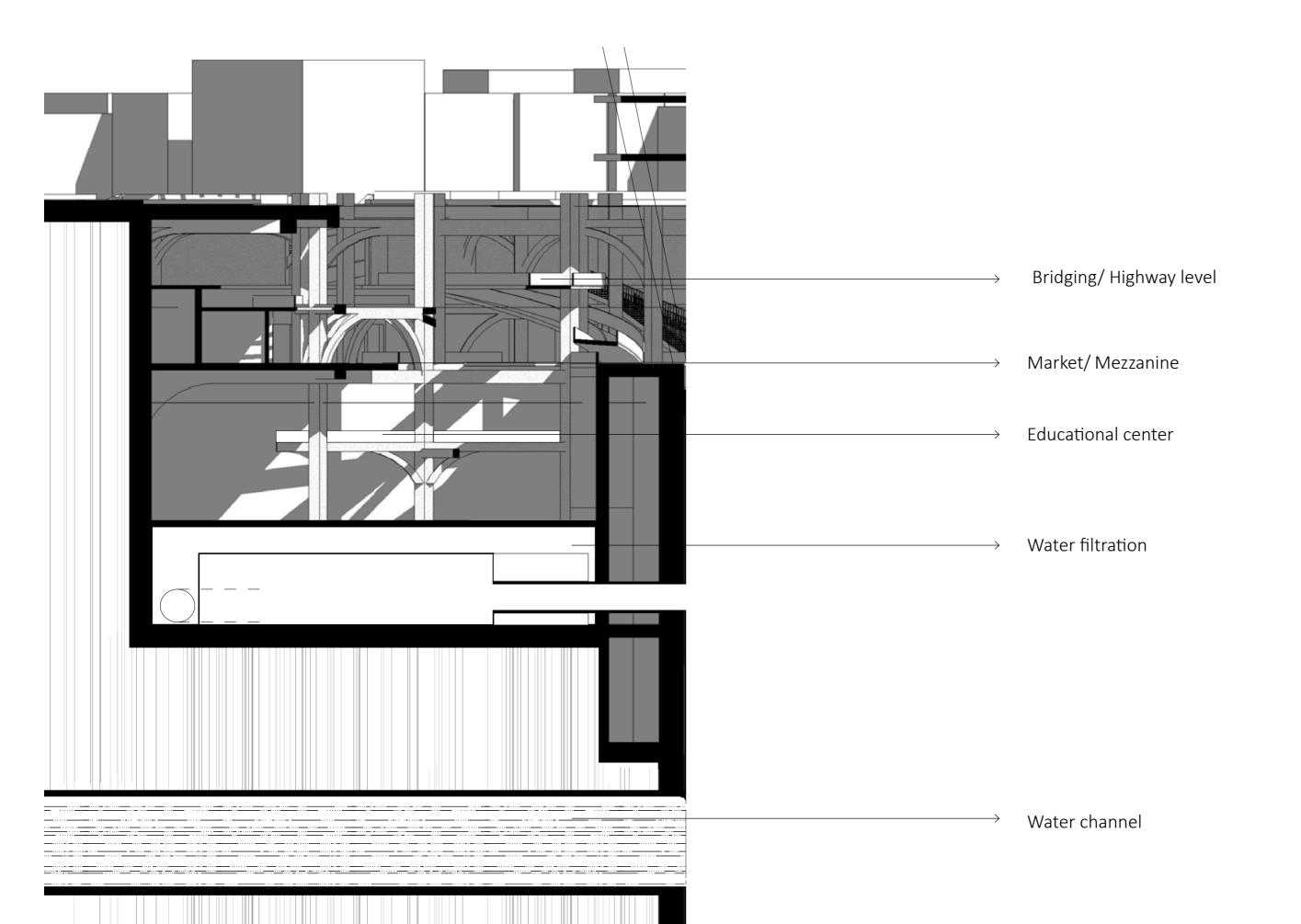


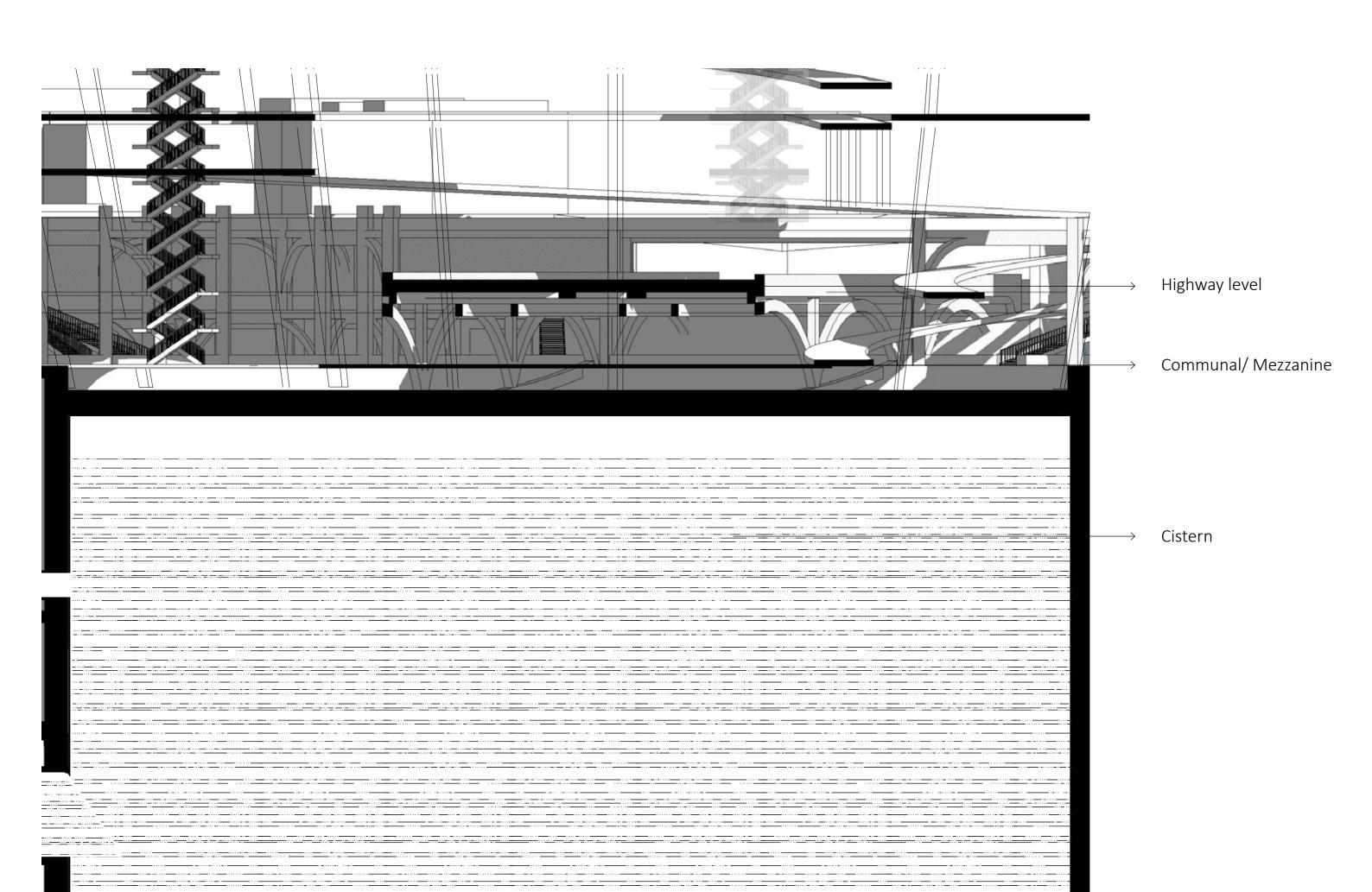
Parking

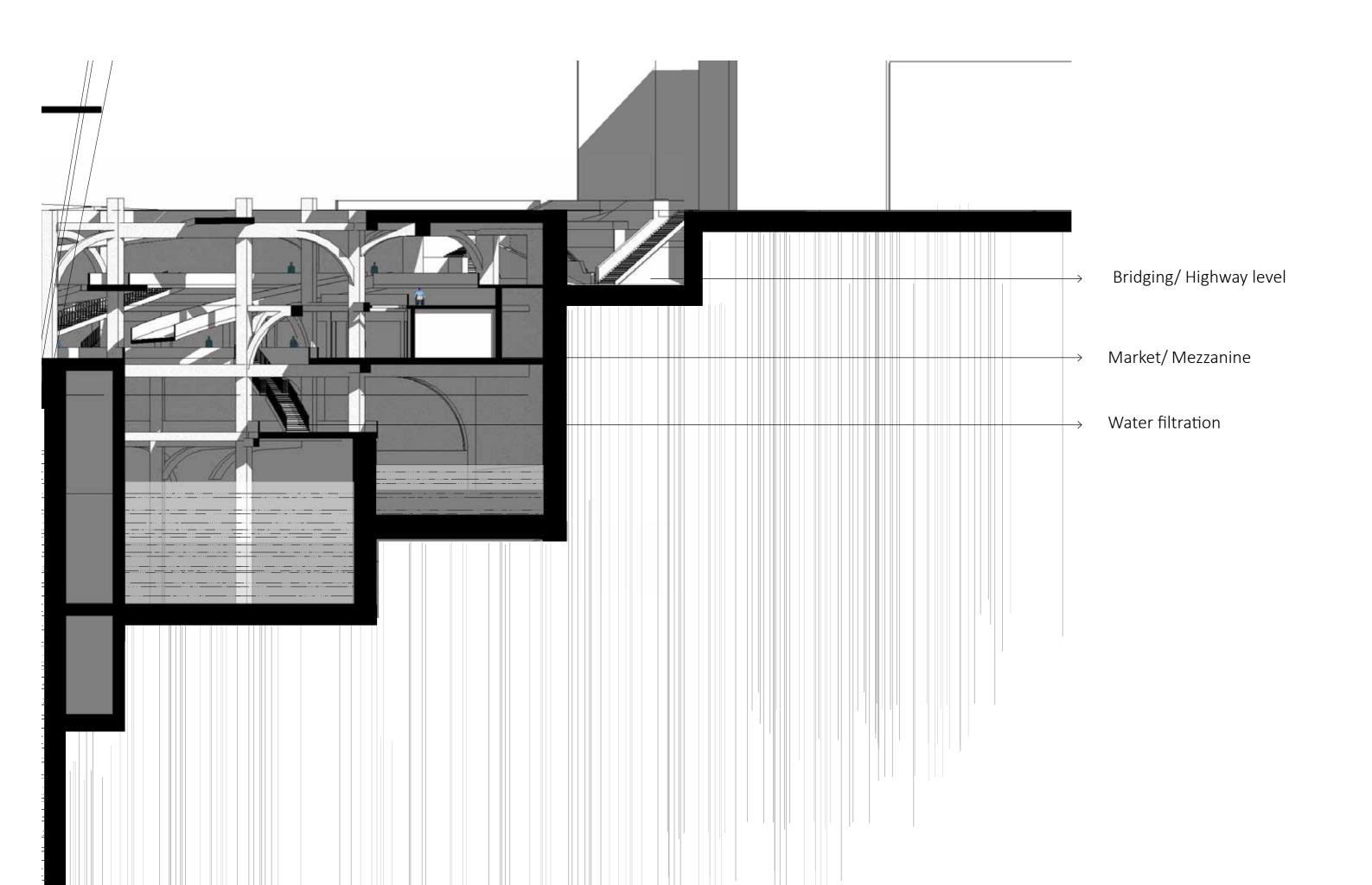


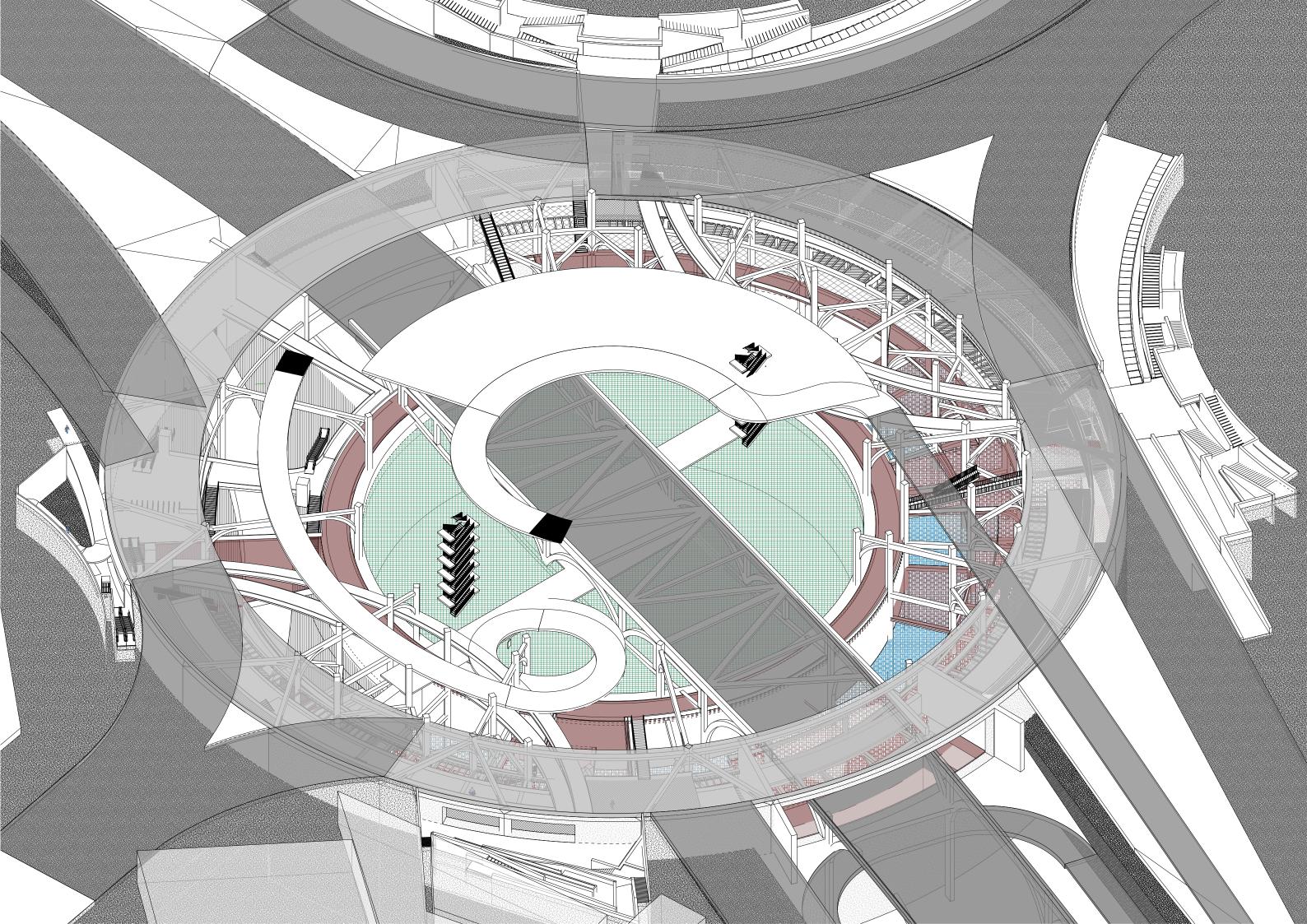
Cross Section

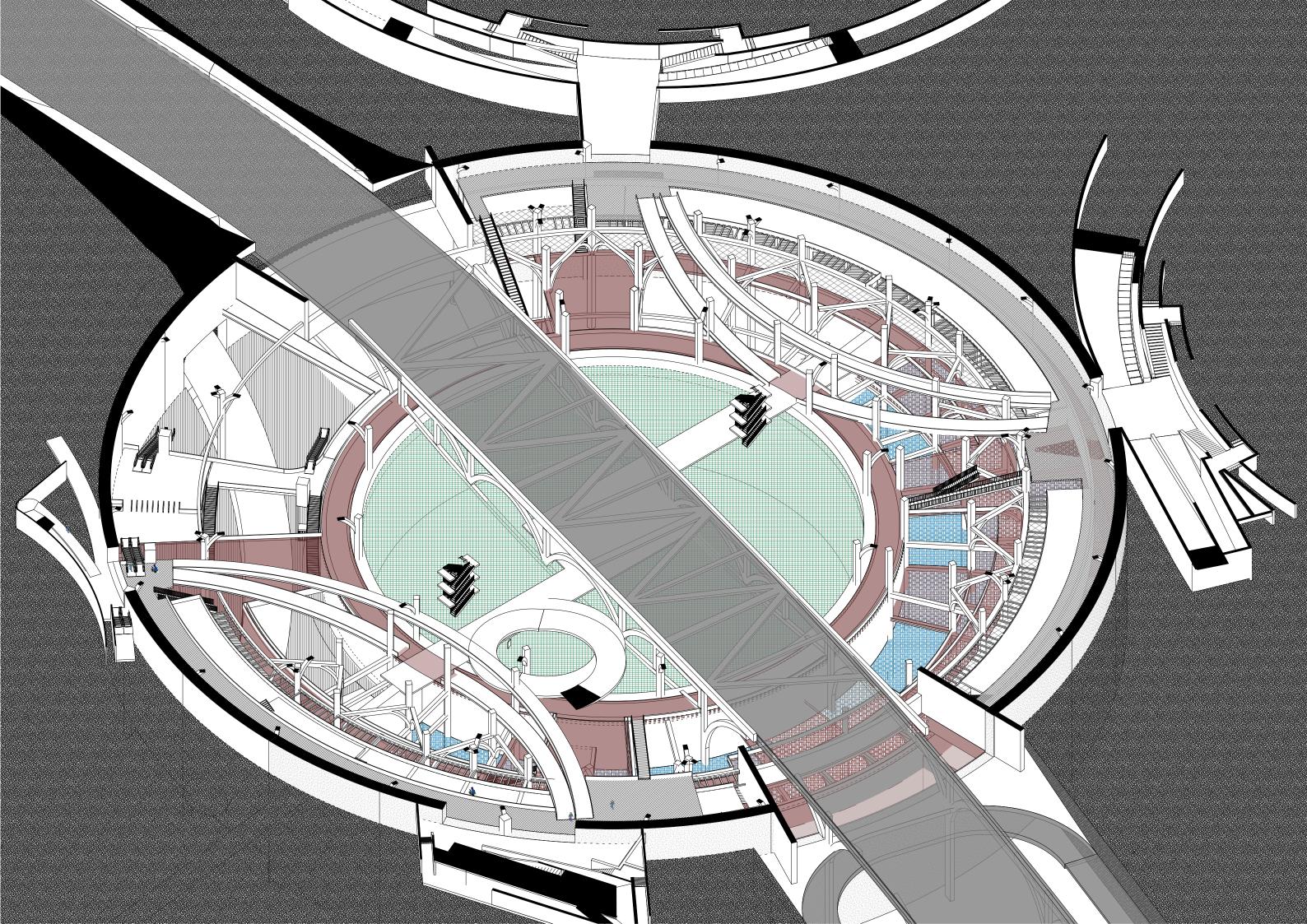


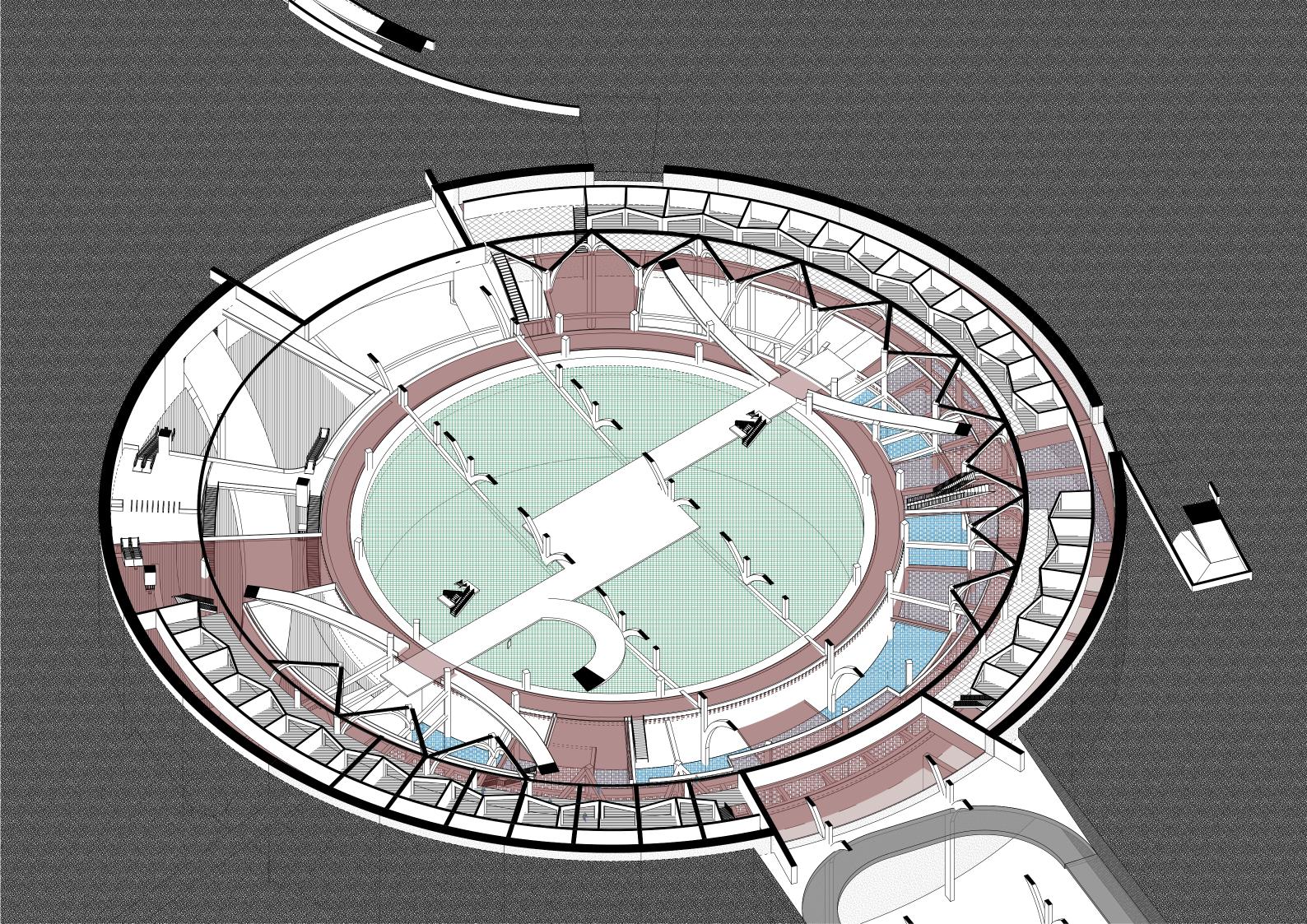


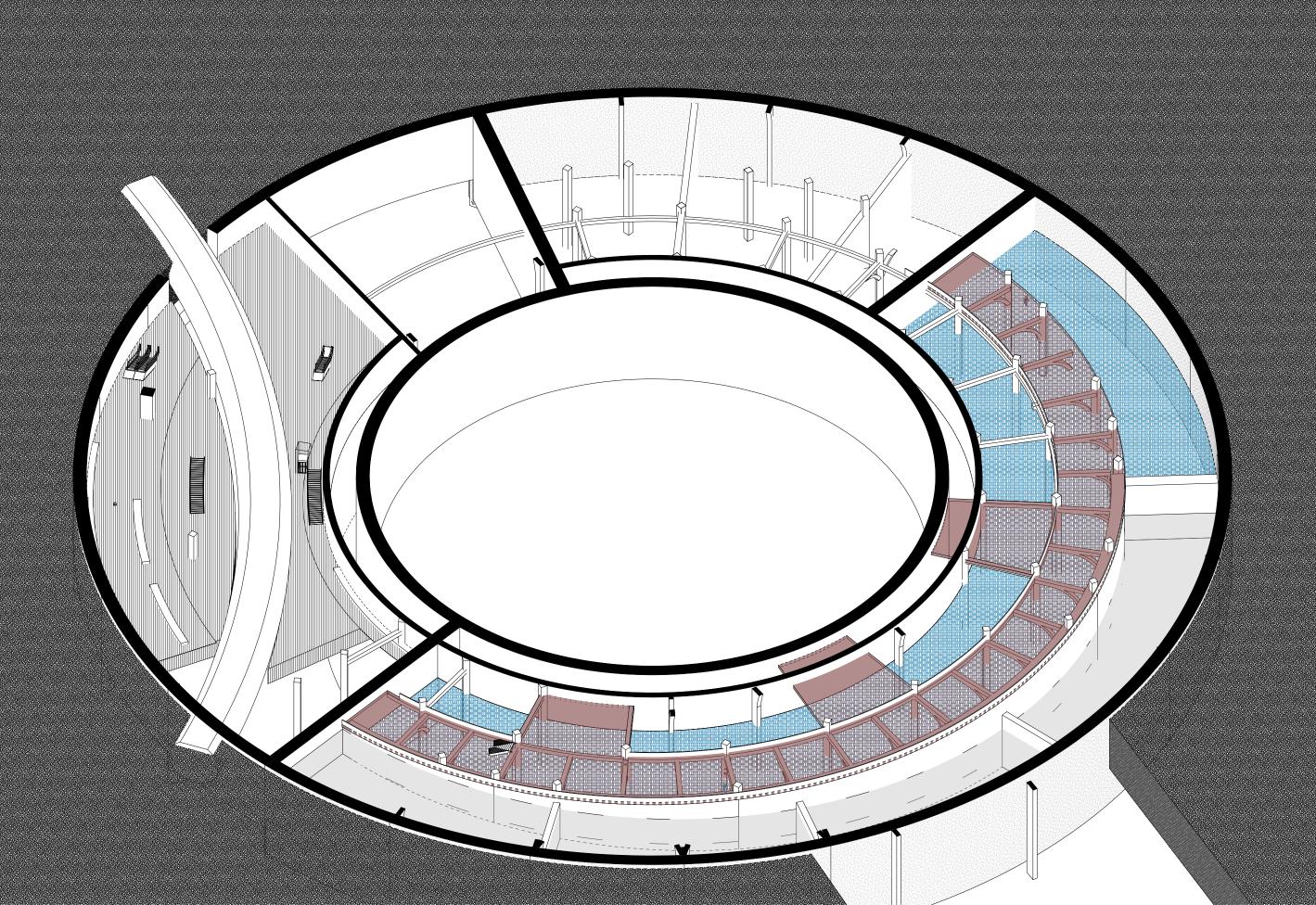


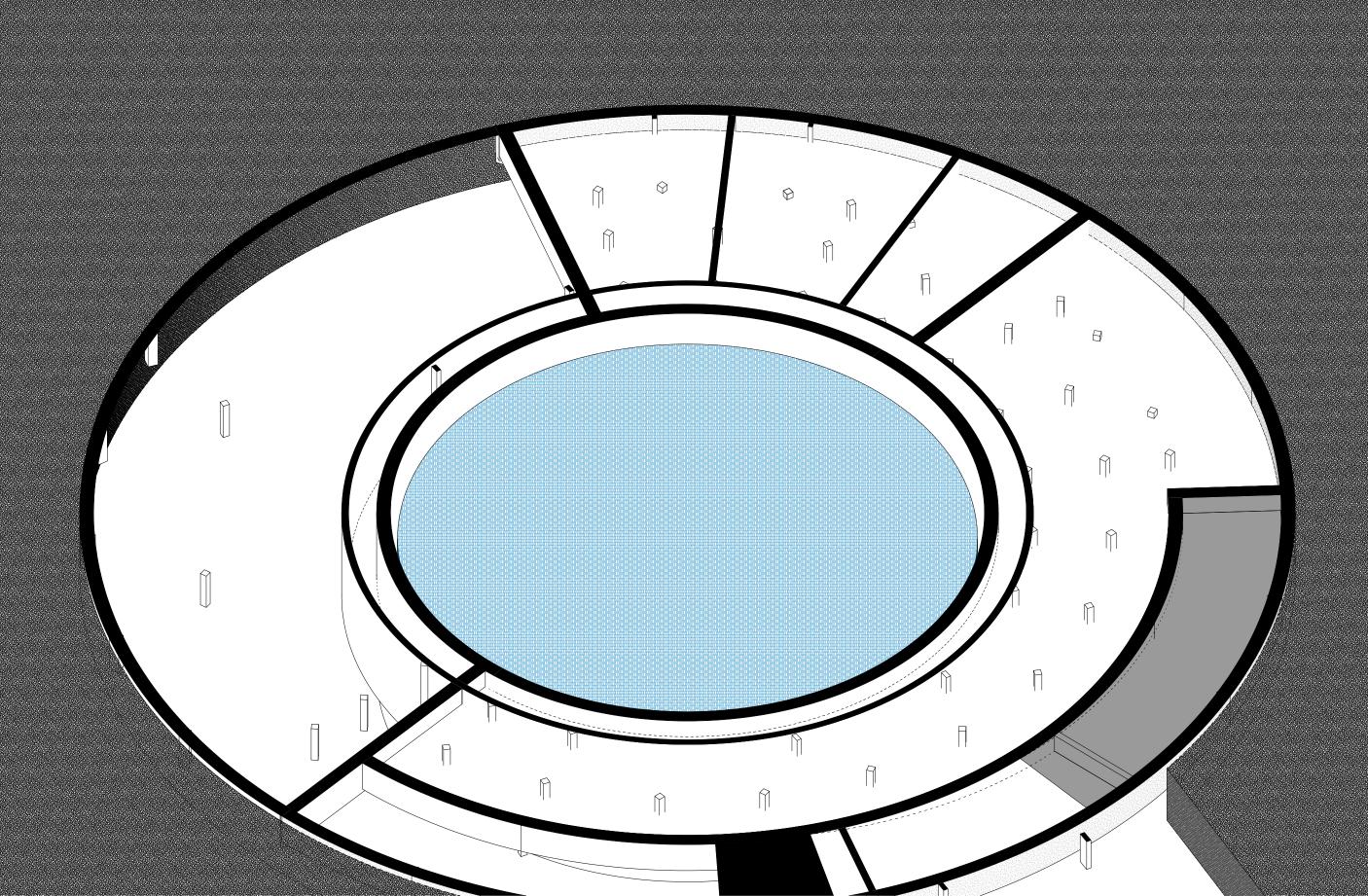


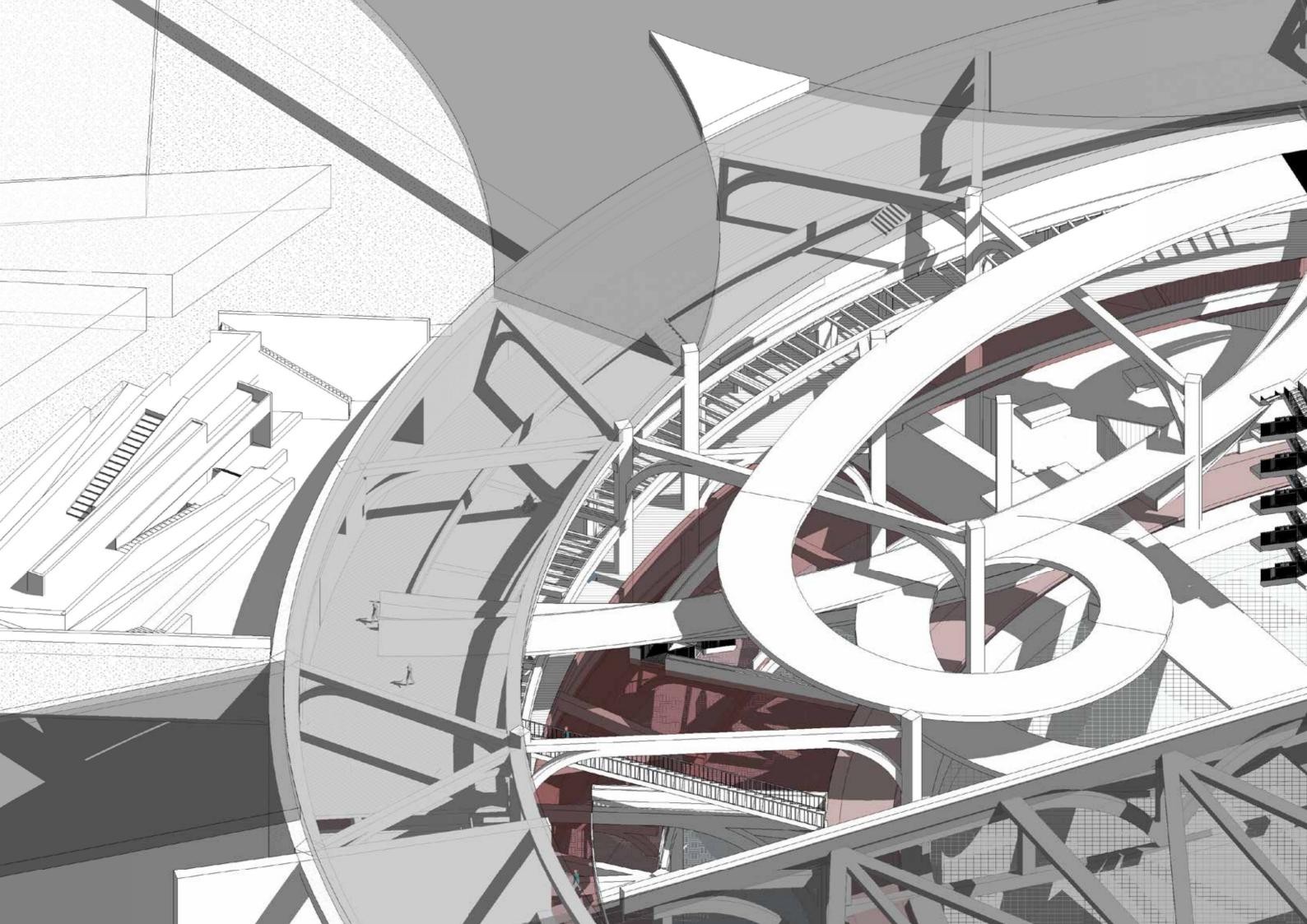


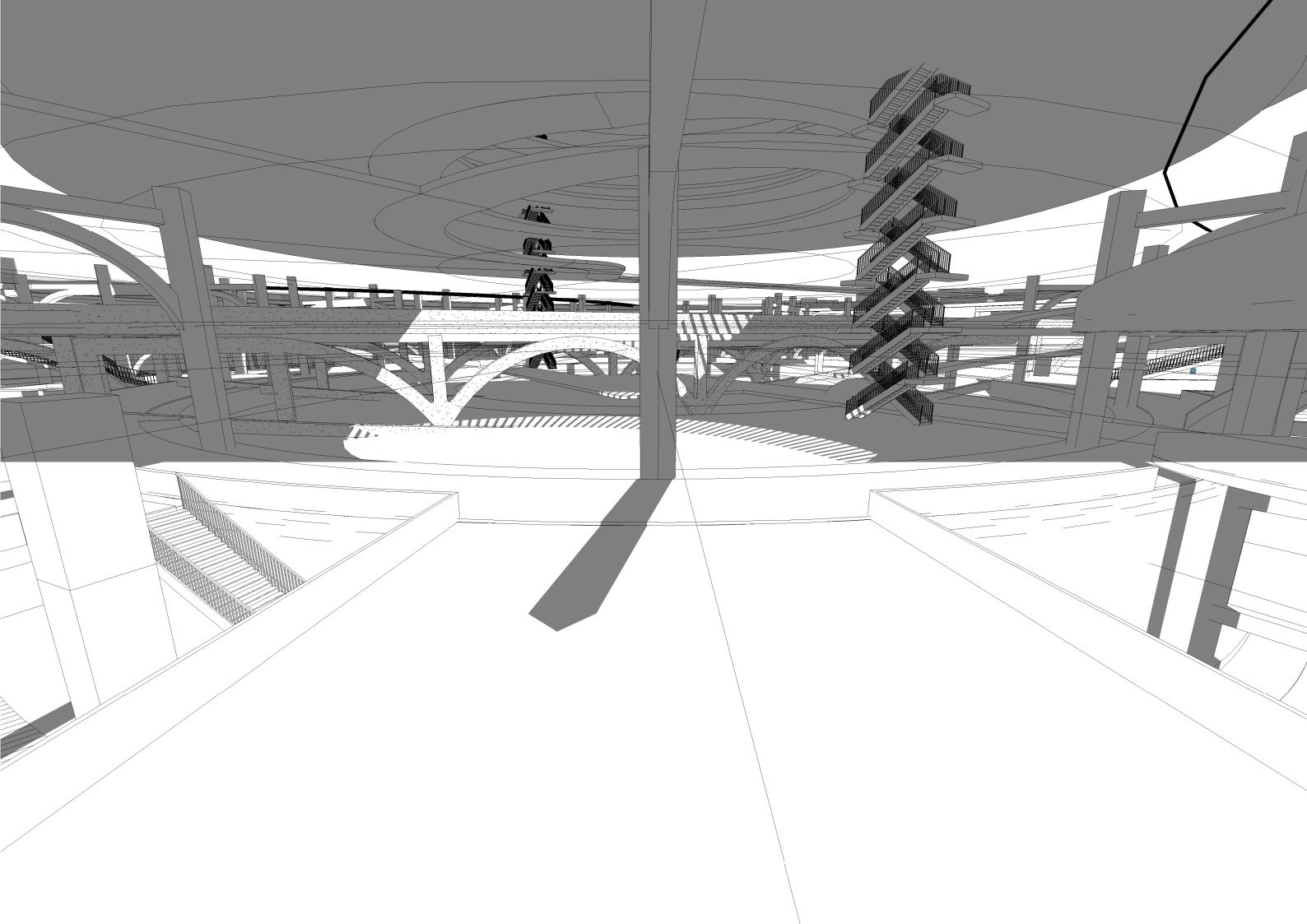




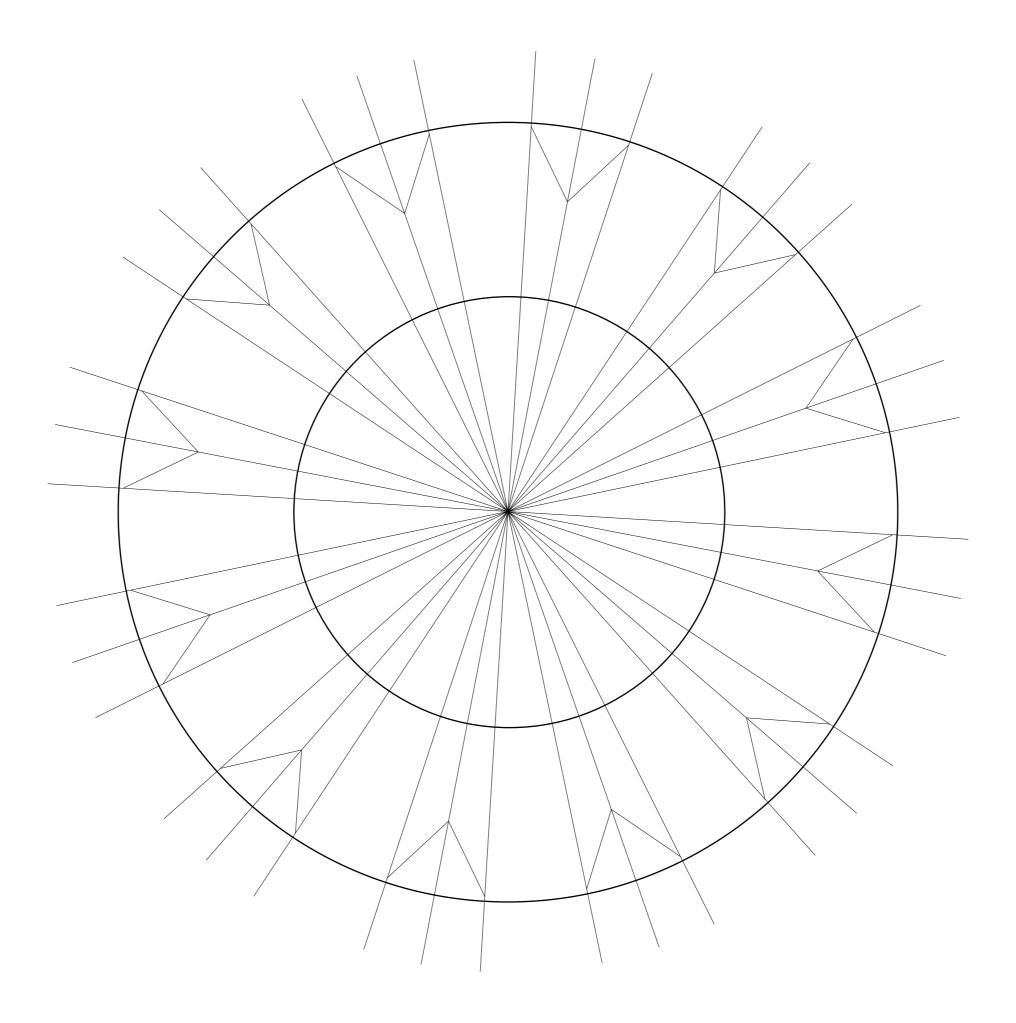


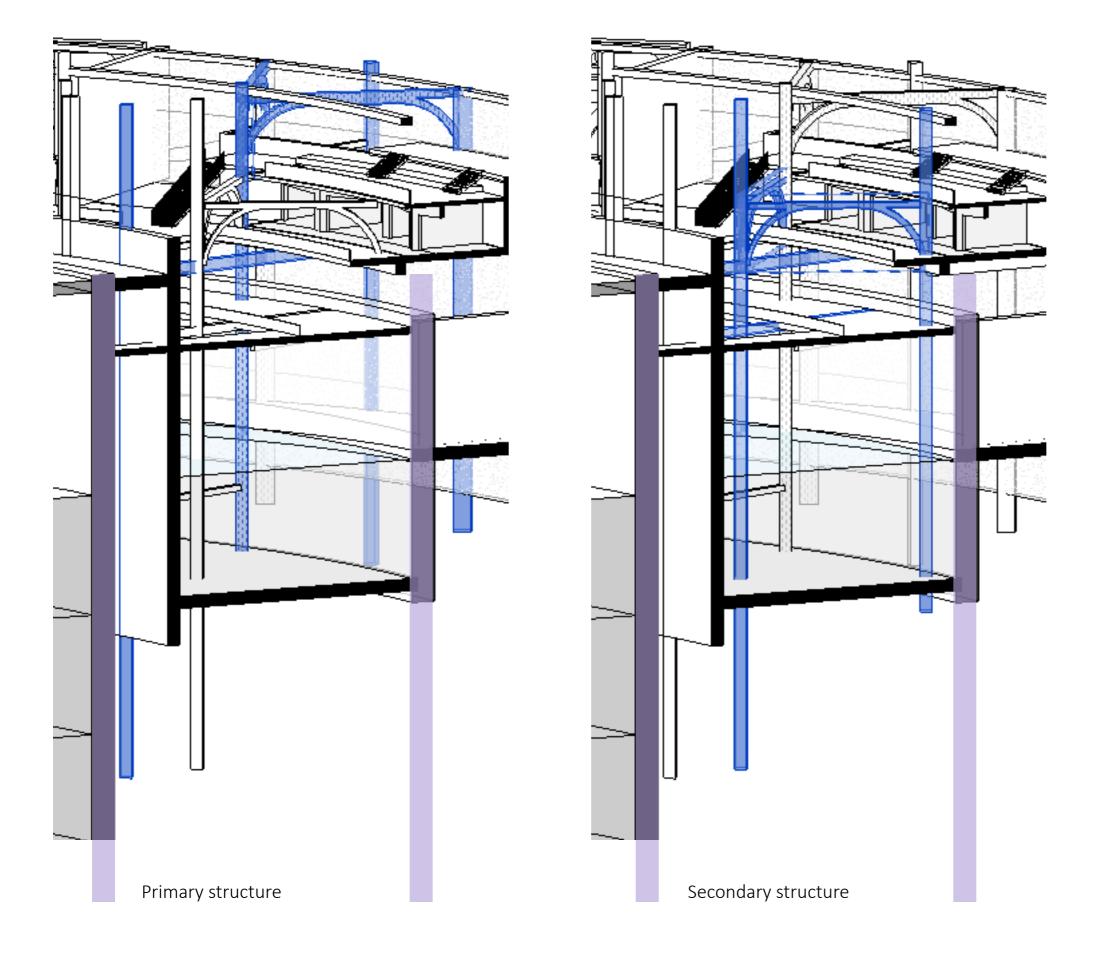






Structure Grid





1.800 \$

1 kilo Saffron 2.170 flowers

1 kilo — 78 Kilo Saffron dried fresh flowers

236 tons — 212.4 tons Iran Mashhad

212400 K — 460.908.000 — 16.567.200 Saffron flowers kilo of fresh flowers

