

# Valparaíso Upcycling Market

P5 presentation

MSc 3-4 Methods and analysis | The commons | Chile | Valparaíso

Klaske Havik | Pierre Jennen | Óscar Andrade Castro

Zhang Zhi | 张知

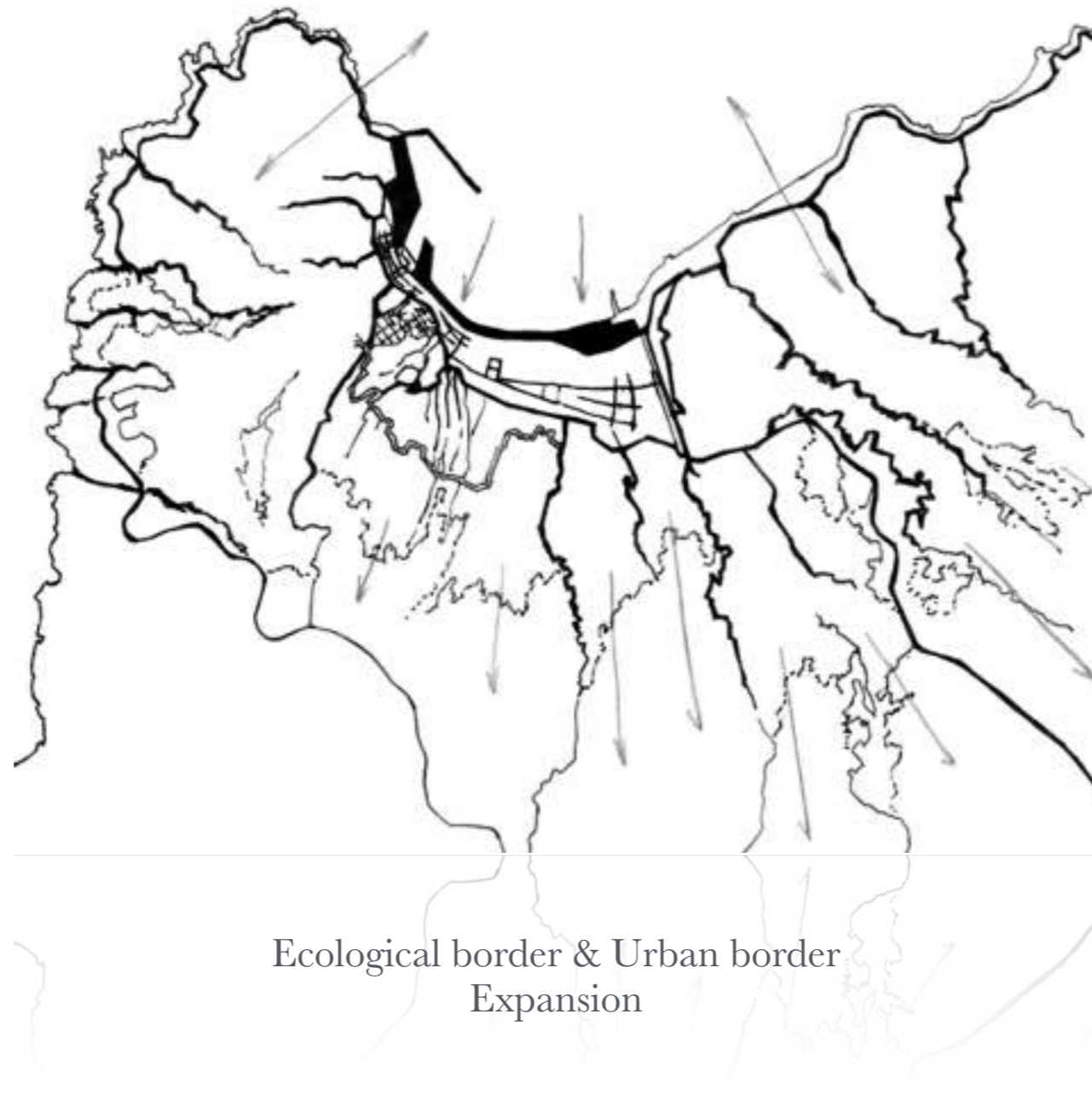
# Valparaíso

impression





ZOE  
18.1.9





The hills



The plain

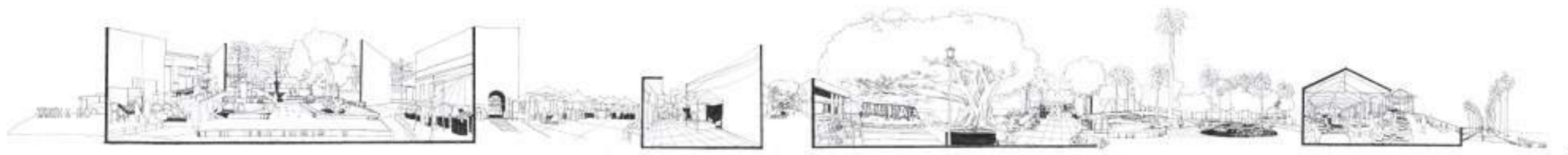


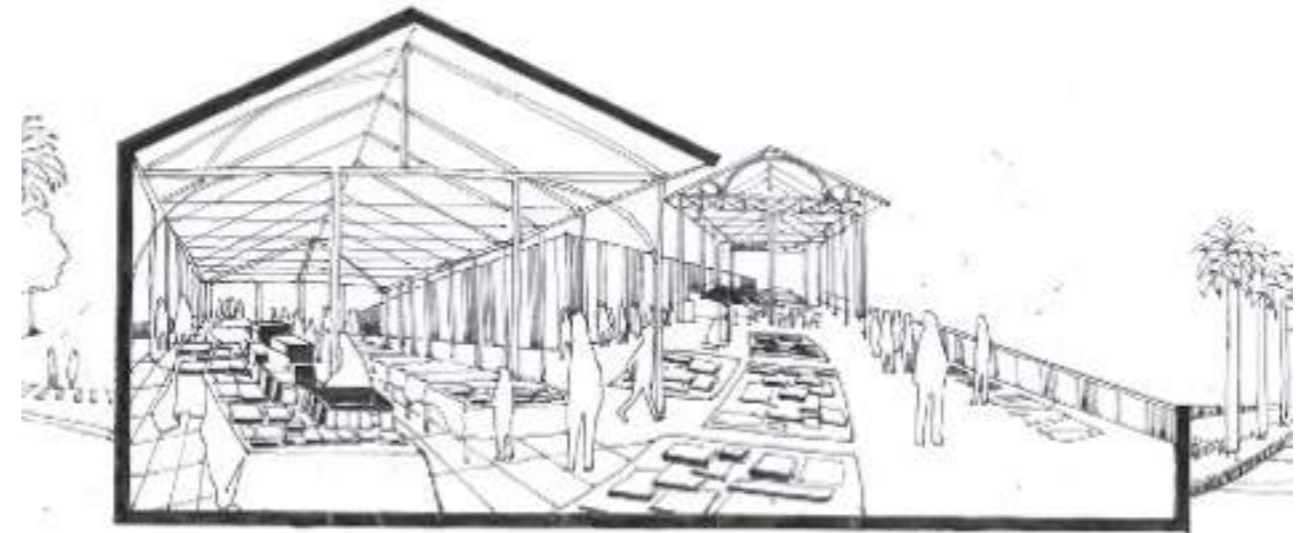
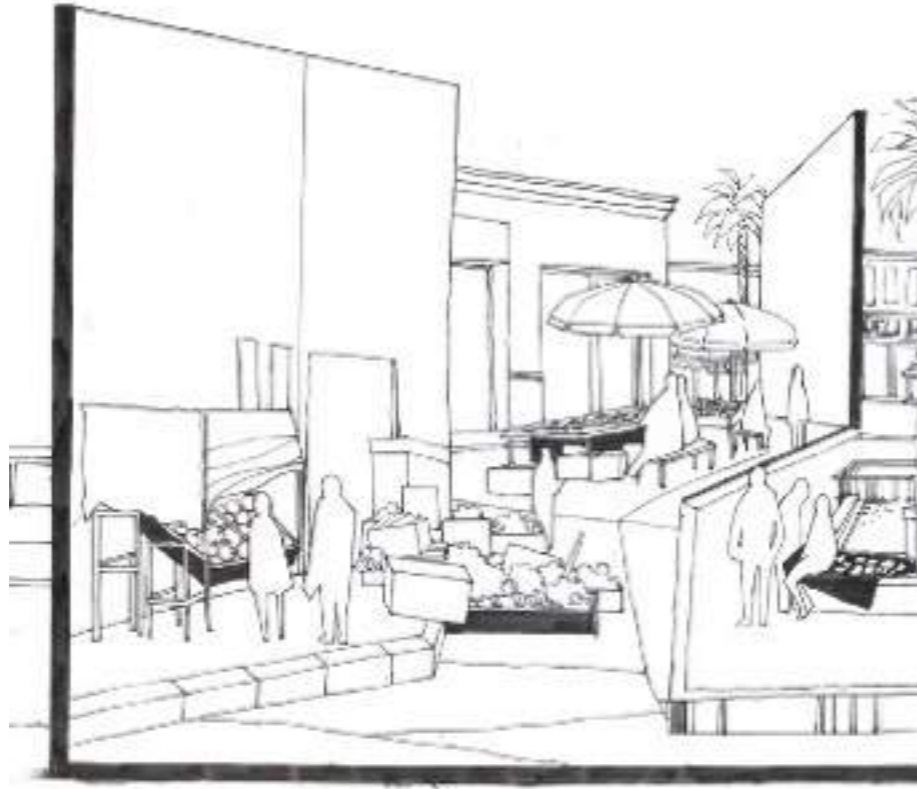
The sea

**Expansion  
Segregation**

# Valparaíso

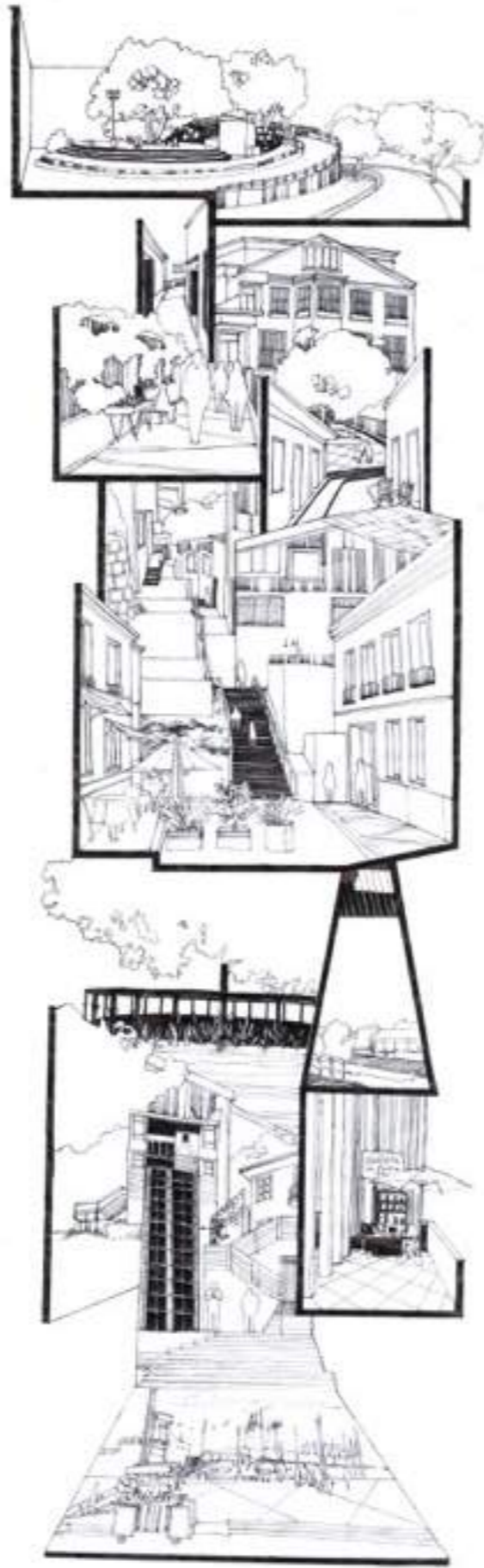
space and event

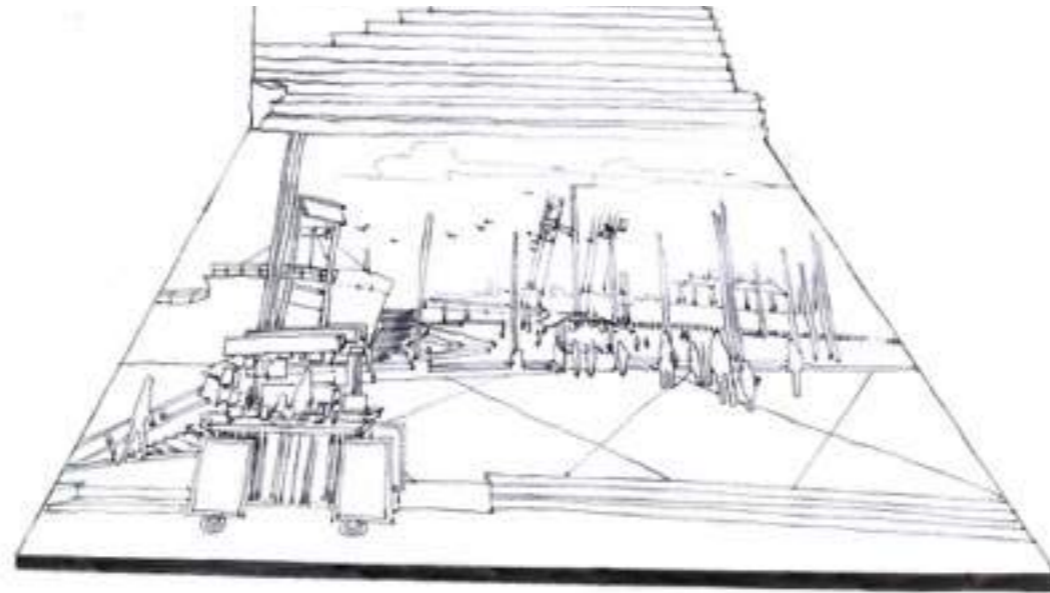




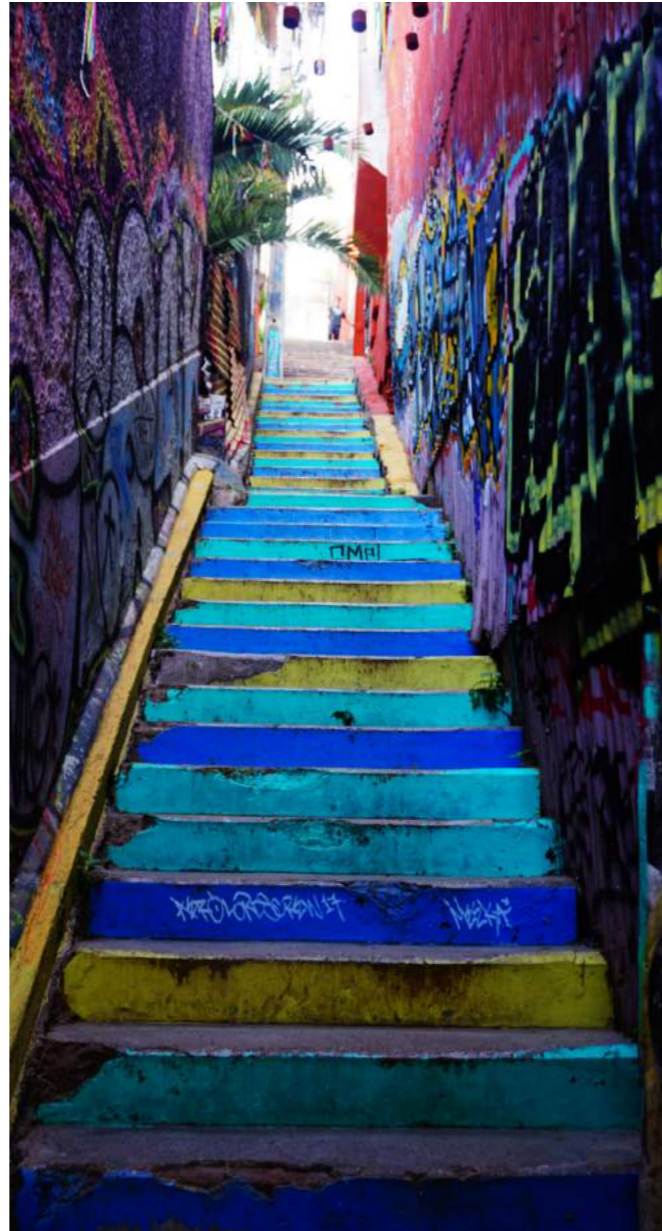
# **Market**

where people gather

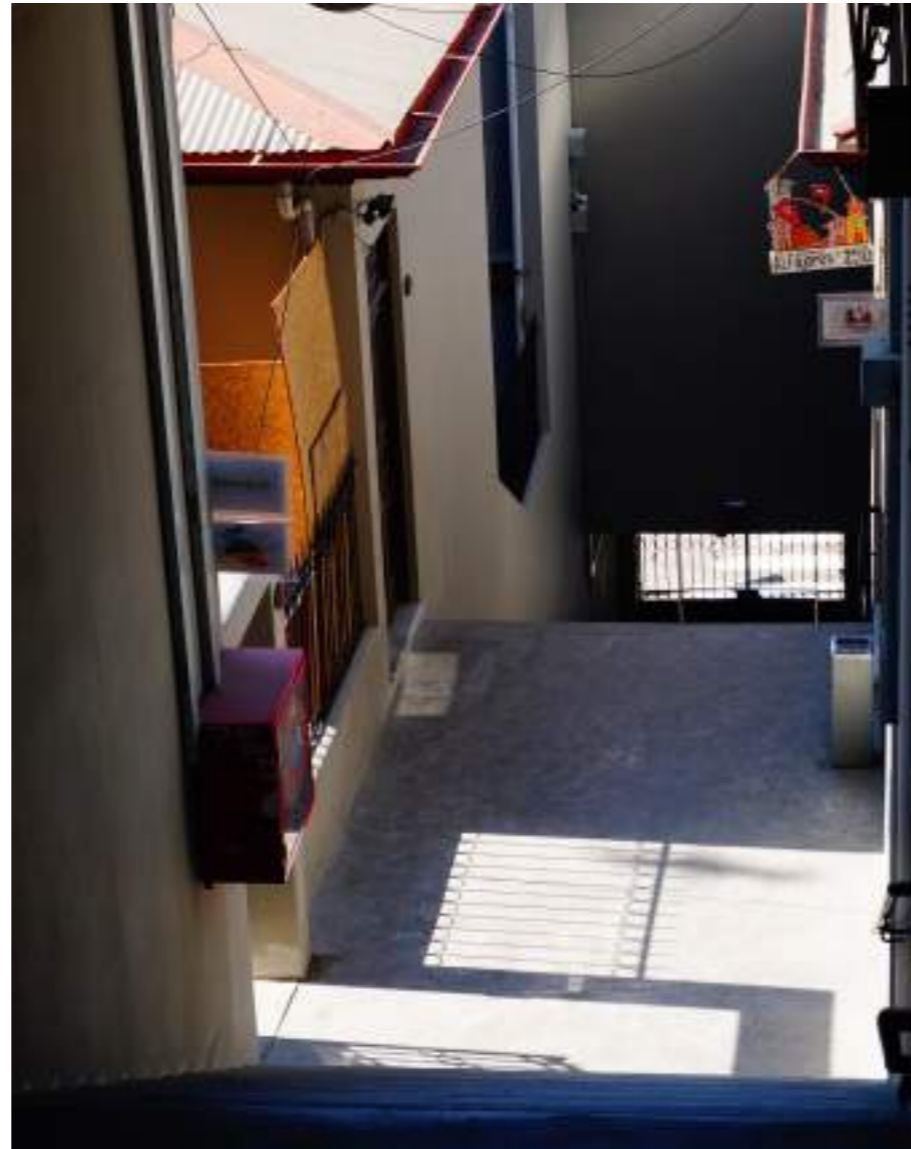








Passage Daneri



Pasaje Bavestrello



Pasaje Bavestrello

## **Viewpoints**

where people gather

## **Narrow passages**

where people enter



Market?



# Valparaíso

urban strategy

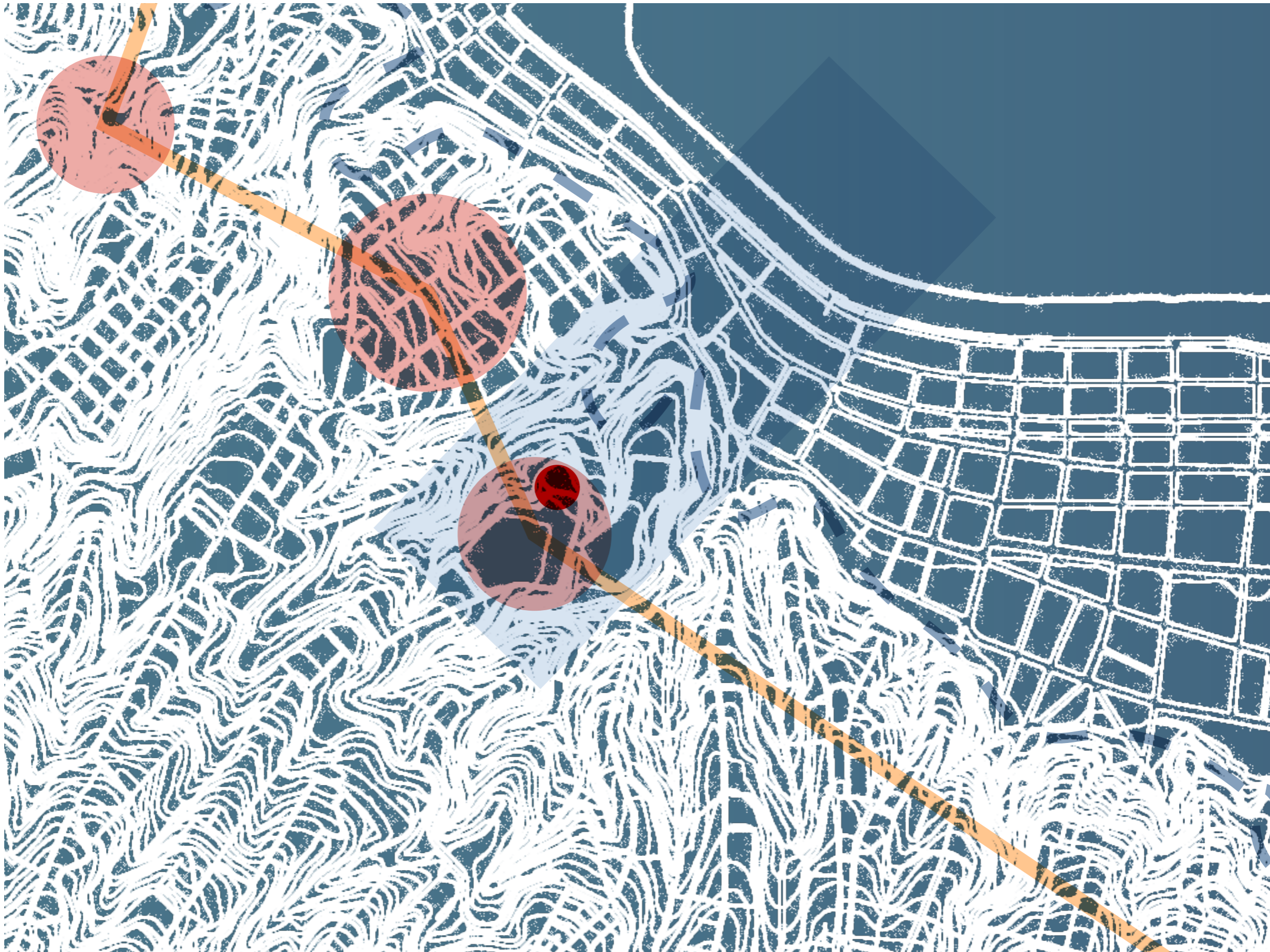


## **A market on the edge**

What makes a market special and successful?

**Site**

location







# **In Funicular Victoria**

let us travel by it!

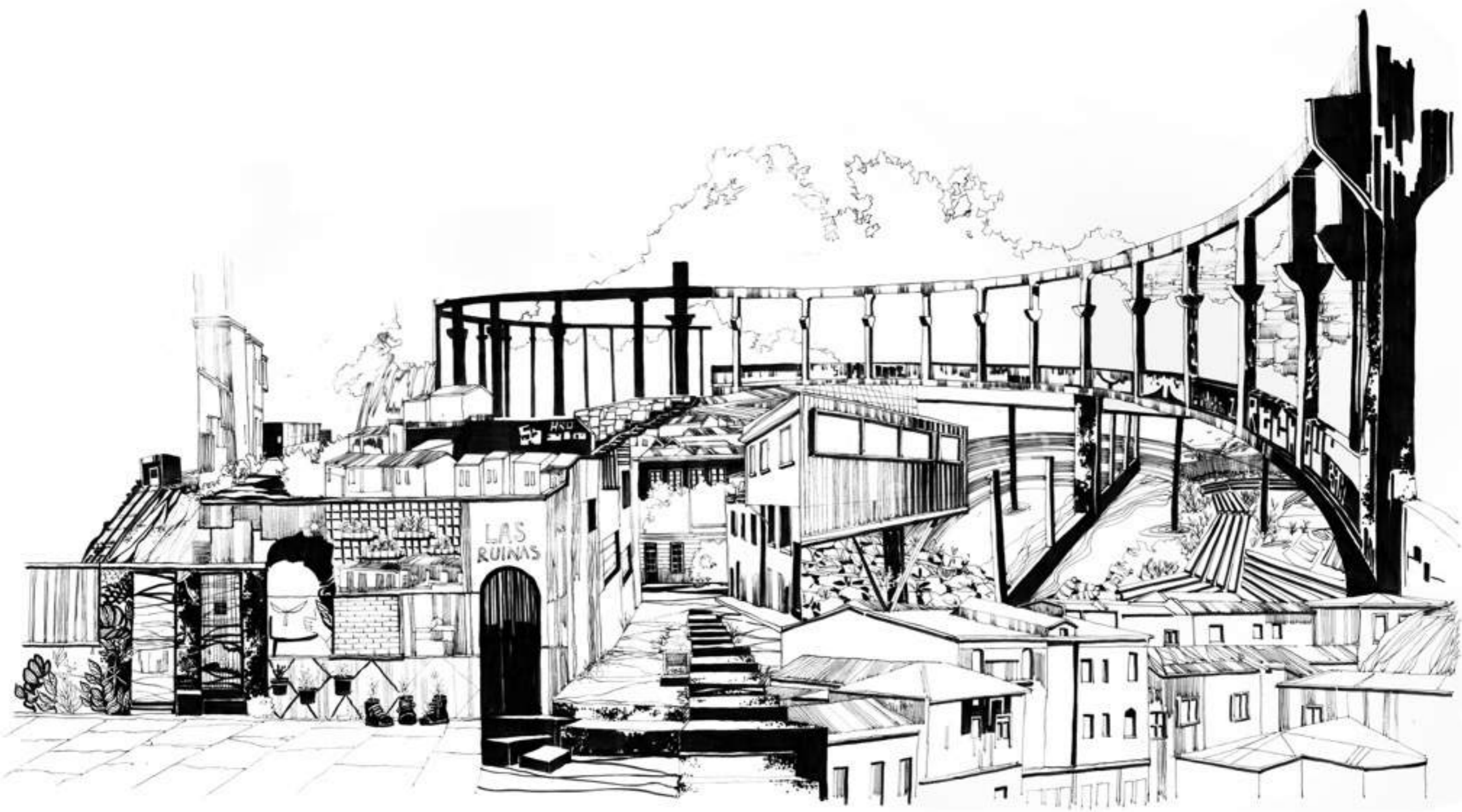


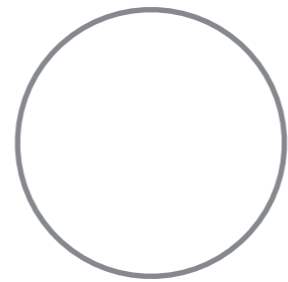
## Site

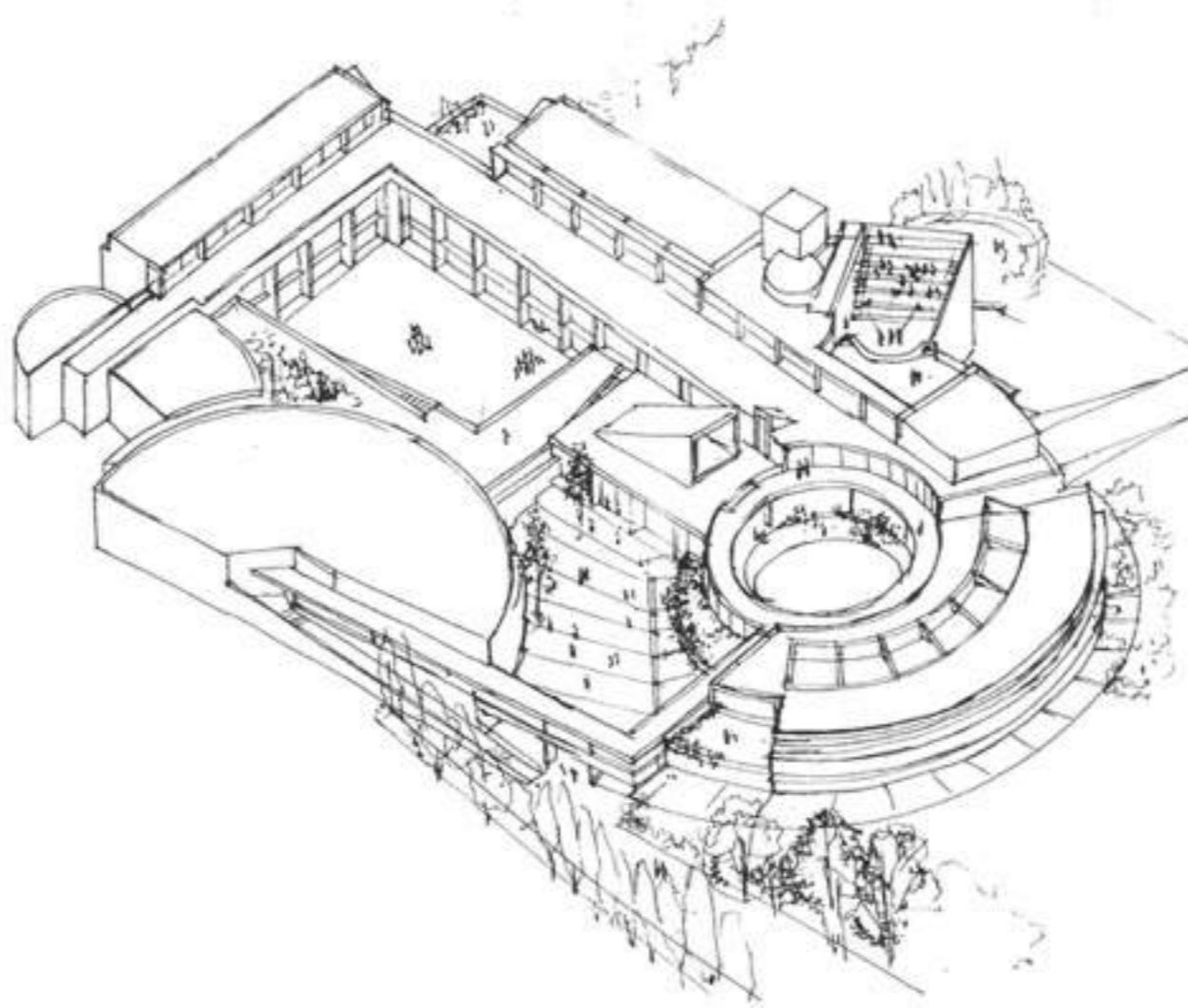
water tank



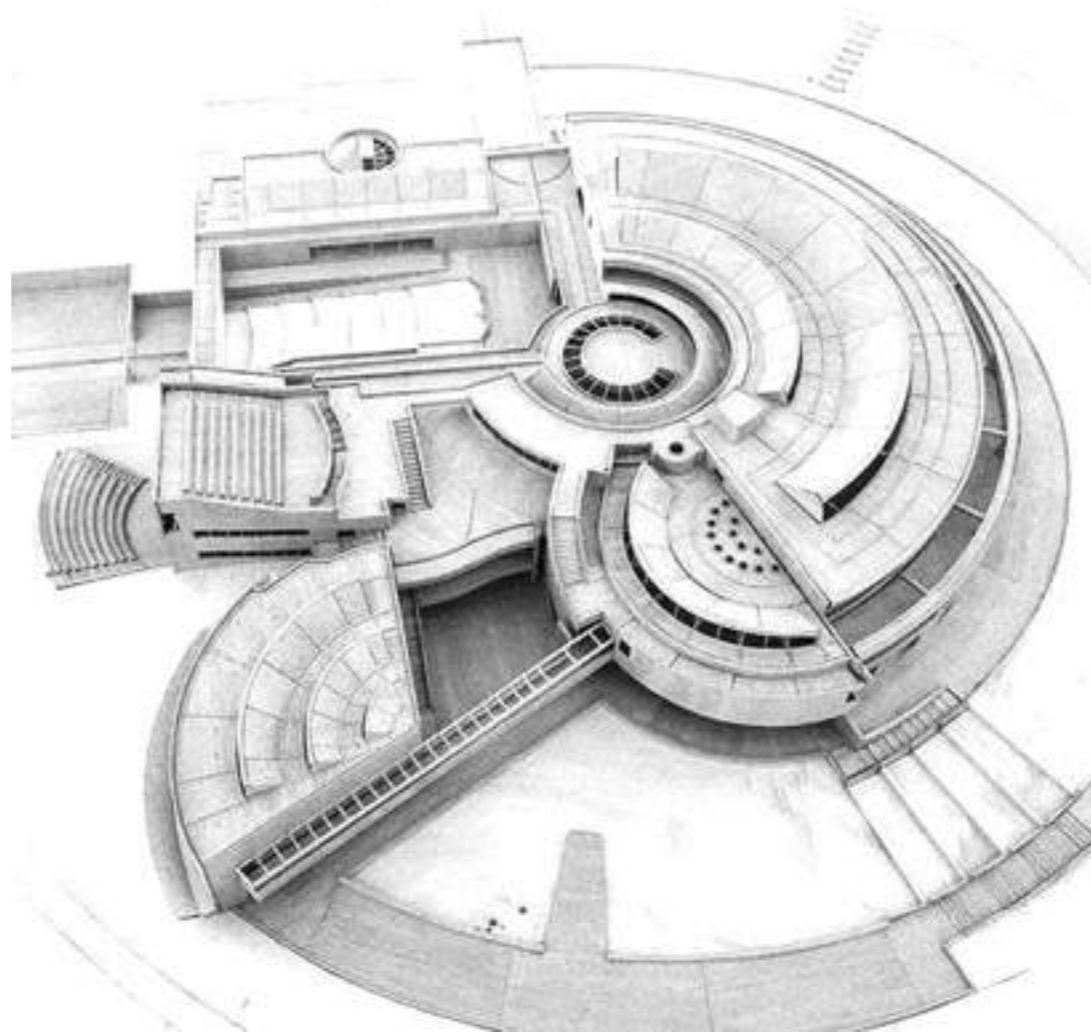








Rogelio Salmona



Rogelio Salmons



Rogelio Salmona

# Site

cultural park





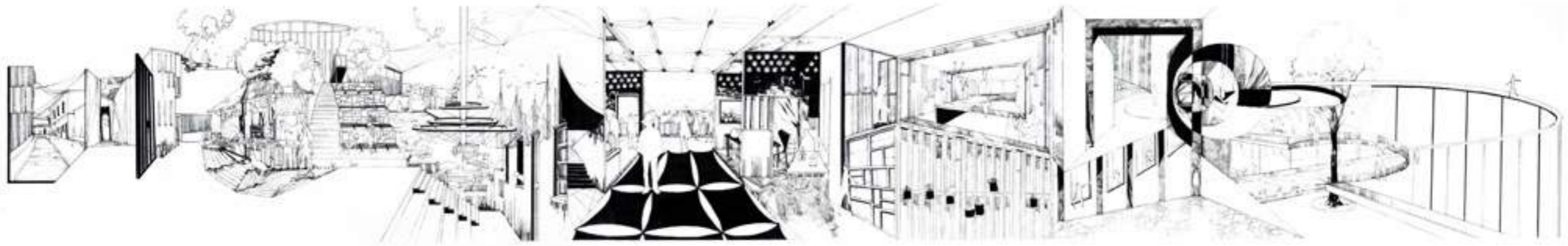


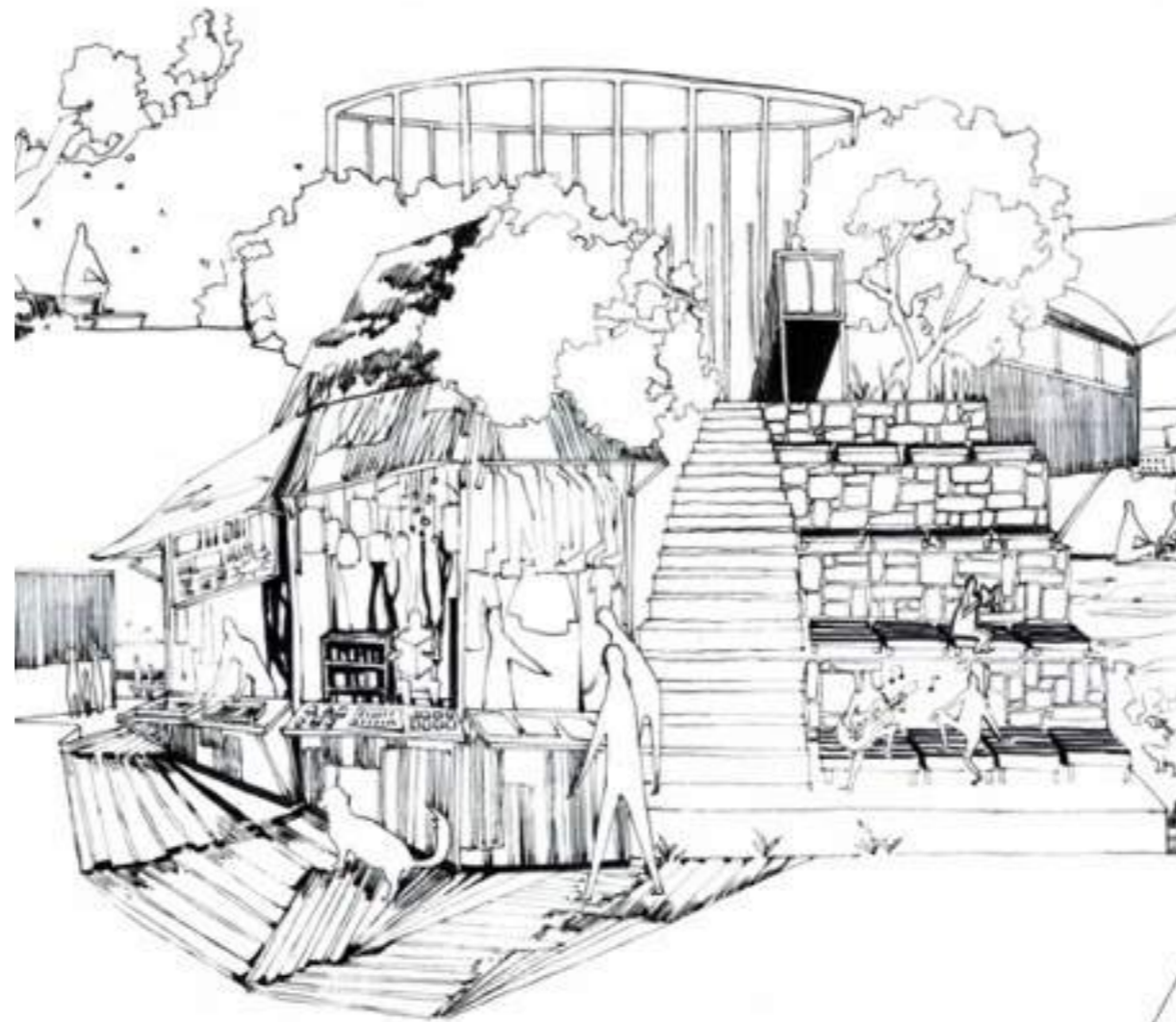


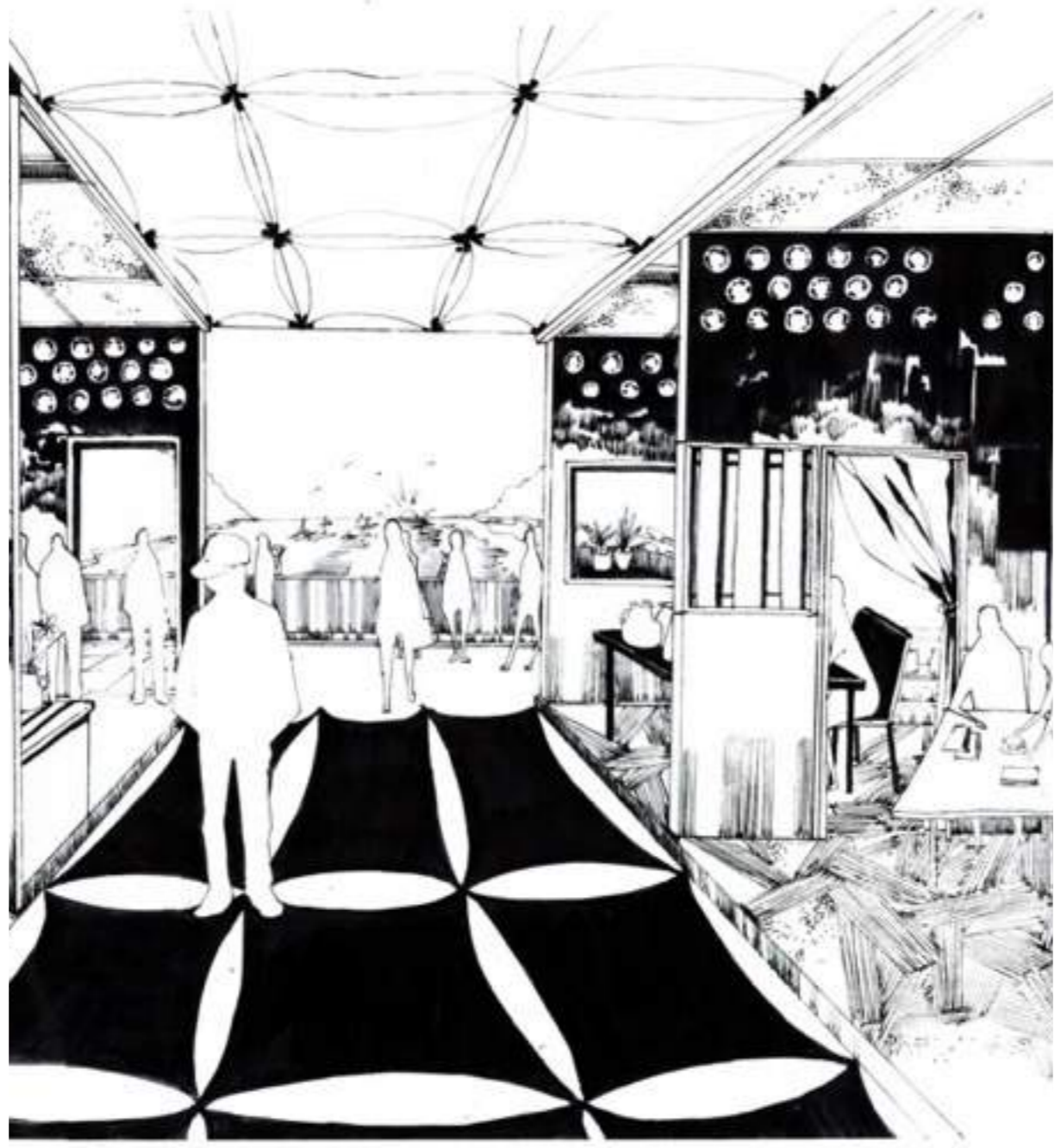
**Site**

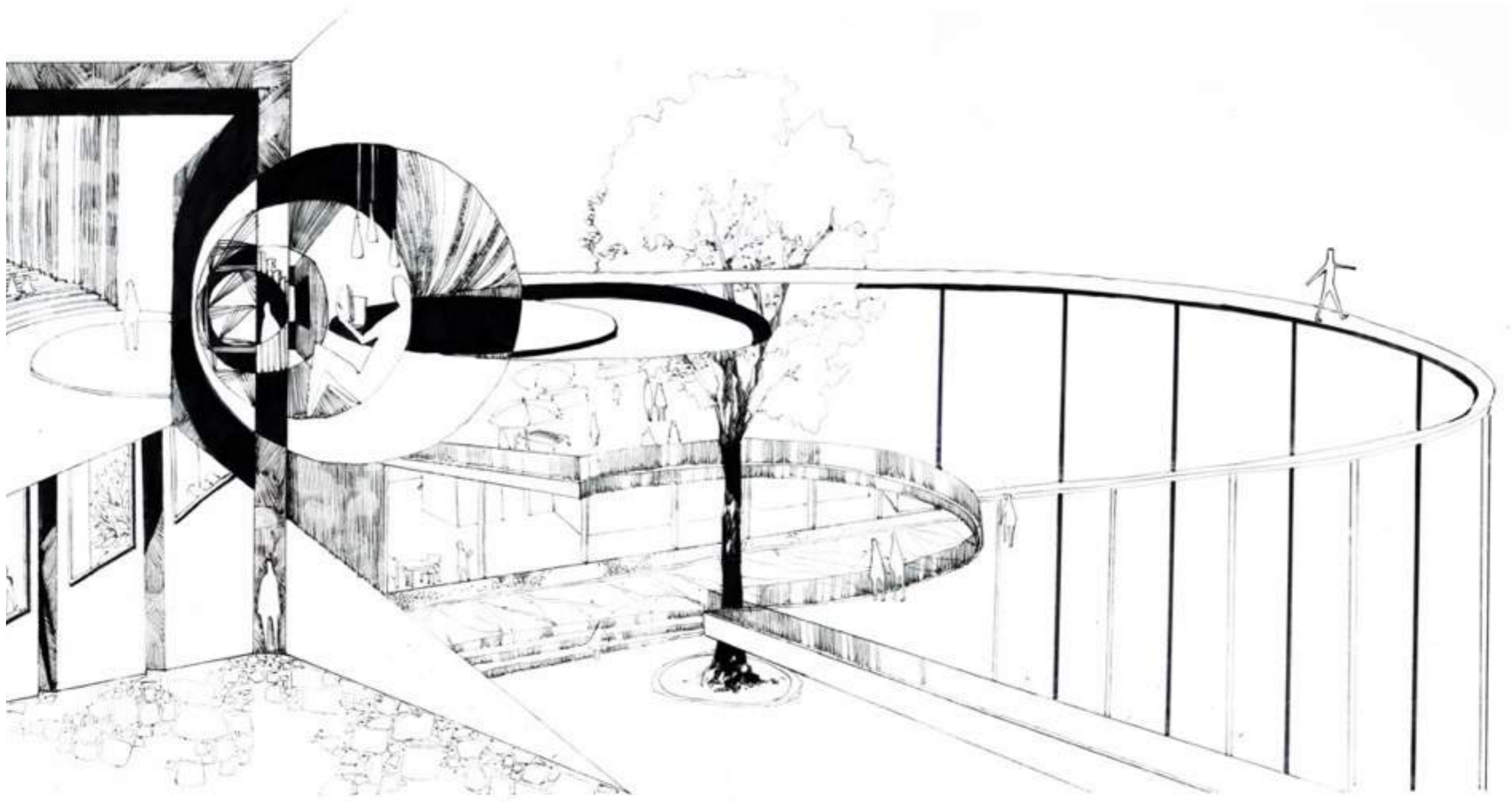
visions











**A market on the urban edge  
with a water tank  
near the cultural park**

What makes this market special and successful?

## **Waste as a resource**

waste as a problem





## Current situation in Valparaíso

Una producción dereejo comunicaciones. (2016, September 1). Valparaíso Inamible #Guarenismos [Video file].  
Referred from <https://www.youtube.com/watch?v=Lv6W3ZkgXIE>



The sanitation workers have to carry garbages up and down the hills with unfair salaries. Authorities do not give them the same right to be a part of municipal council meetings.



The government makes the trucks colourful in order to make the sanitation work a propaganda.



Dump sites are filled with garbages waiting to be recycled, somehow the dumpsites are not as organized as it is in imagination.



In between al most all the shadow place it is easy to find many garbages.



Sometimes people dump recyclable wastes at the wrong place, even there are spots which take these wastes.



It is easy to find garbages around signs or telegraph poles.



Some fine potential materials are throwing away because the former owners could not realize its value.



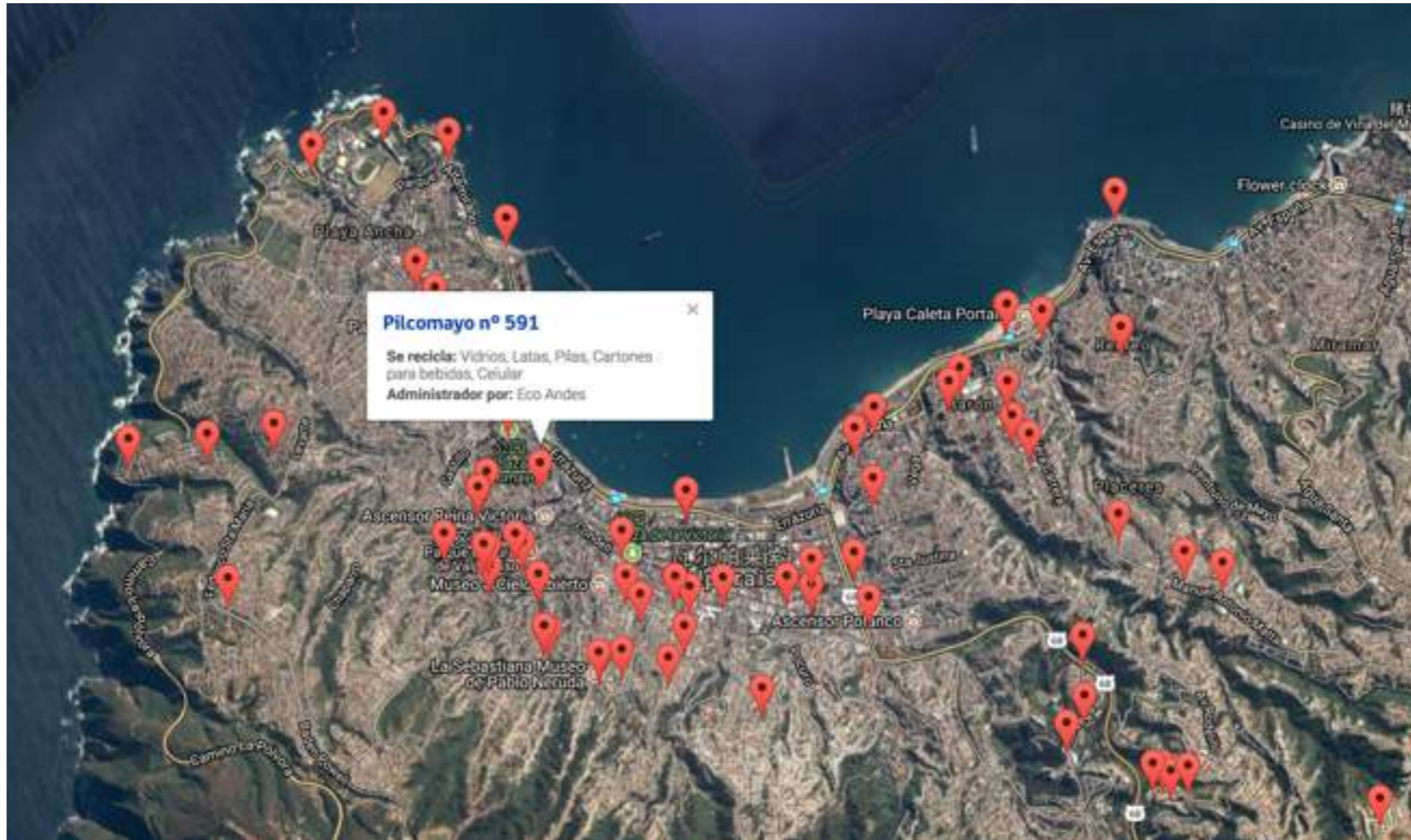
What can few truck do when there are too many garbages and people do not want to walk even a bit further to sort waste?



Woodboard, paperboard, bamboo sticks, big pieces of tiles...They could be more useful.



Big garbage trucks seem to effect the neighbourhoods in a bad way. They are also only existed at where the cars could reach. What about the unreachable places?



# **Waste as a resource**

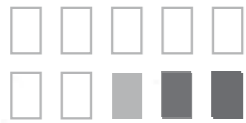
From recycle to upcycle







Precedents in Chile and worldwide

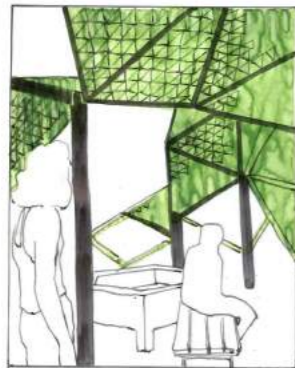


Fundación Basura. (2017). *Redo the Undone: Material upcycling in architecture, art and design*. Santiago de Chile. STQQ editorial.

Una producción dereejo comunicaciones. (2016, September 1). Valparaiso Inamible #Guarensimos [Video file]. Referred from <https://www.youtube.com/watch?v=Lv6W3ZkgXIE>

Pallet theatre. Retrived from <http://refunc.nl/?p=2416#content-wrapper>

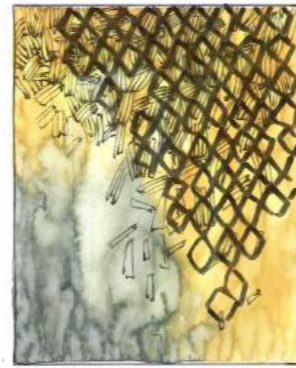
30.000 Pizzas. Retrived from <https://superuse.org/story/30-000-pizzas-by-farwaste/>



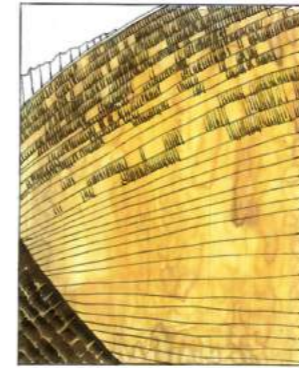
Reptilia, Valparaíso  
Author: Tetralux Architects  
Upcycled materials:  
Milk packages



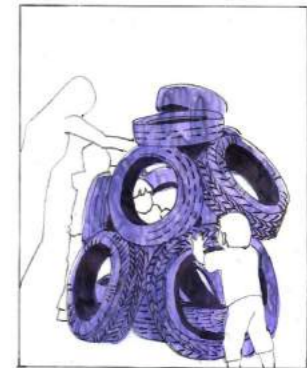
School of music in Papa Nui, Valparaíso  
Author: Toki NGO - Earthship Biotecture  
Upcycled materials:  
Tires, glass bottles, cans



Proyecto Minga, Valparaíso  
Author: Minga Valpo NGO  
Upcycled materials:  
Plastic and glass bottles, cans, pallets



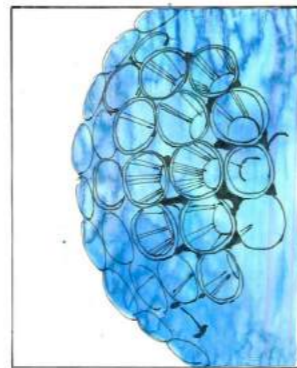
Wicker Membranes, Itinerant  
Author: Andrea von Chrismar  
Upcycled materials:  
Wicker



Okuplaza Antofagasta, Antofagasta, Antofagasta Region  
Author: Ciudad Emergente NGO  
Upcycled materials: Tires



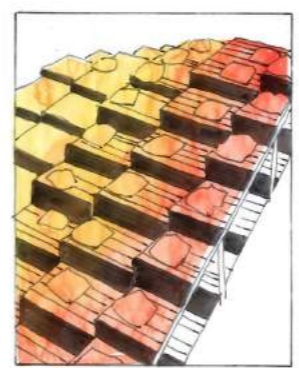
La Bolsa Loca, Santiago, Metropolitan Region  
Author: La Bolsa Loca  
Upcycled materials:  
Plastic bags, tetrapack packages, plastic packages, etc



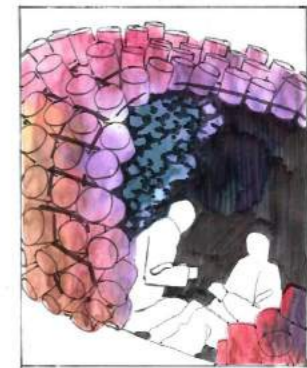
La Bolsa Loca, Santiago, Metropolitan Region  
Author: La Bolsa Loca  
Upcycled materials:  
Plastic bags, tetrapack packages, plastic packages, etc



Fabric fence, Valparaíso  
Author: Unknown  
Upcycled materials:  
Fabric, cloth



Theatre Pallet  
Author: Refunc  
Upcycled materials:  
Pallet



30.000 Pizzas, Turin  
Author: Farwaste Studio  
Upcycled materials:  
steel cans, plastic cable ties

## References

Redo the Undone: Material upcycling in  
architecture, art and design  
Manuel illustré de bricolage urbain  
Buurman workshop Rotterdam



**KASSA**

meubel  
veldstoel  
Beginners  
Sevorderden

DECORATIE

BOUWMATERIAAL

DEUREN

HOUT  
- 250 cm

MATERIALEN

PLEK  
NOT

UW VOOR

Service counter area with a wooden desk, shelves, and a computer monitor. A sign on the wall reads "ZATERDAG 10:00 UUR TOEGANG & TOEGANG".

Information stand with a white sign and a brochure holder.

Shelving unit with various tools and materials.

Large stacks of lumber and wood planks on the floor.



High industrial shelving units filled with stacks of wood and lumber.



A2

NS  
OM

suipppp





Hanging book shelf - Buurman workplace. Zhang Zhi (2018)



# Upcycling + Market

**The locals:** recycling spot +  
techniques learning center + market

**Tourists:** attraction + view point +  
market and shop

**Studios:** workshop + place for  
collecting and selling + knowledge  
exchanging

**Industrial → public**

**Cultural**

**Educational**

**The common space of the city**



**Glass bottles**



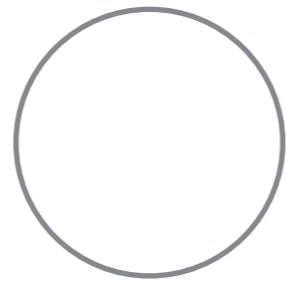
**Fabric**

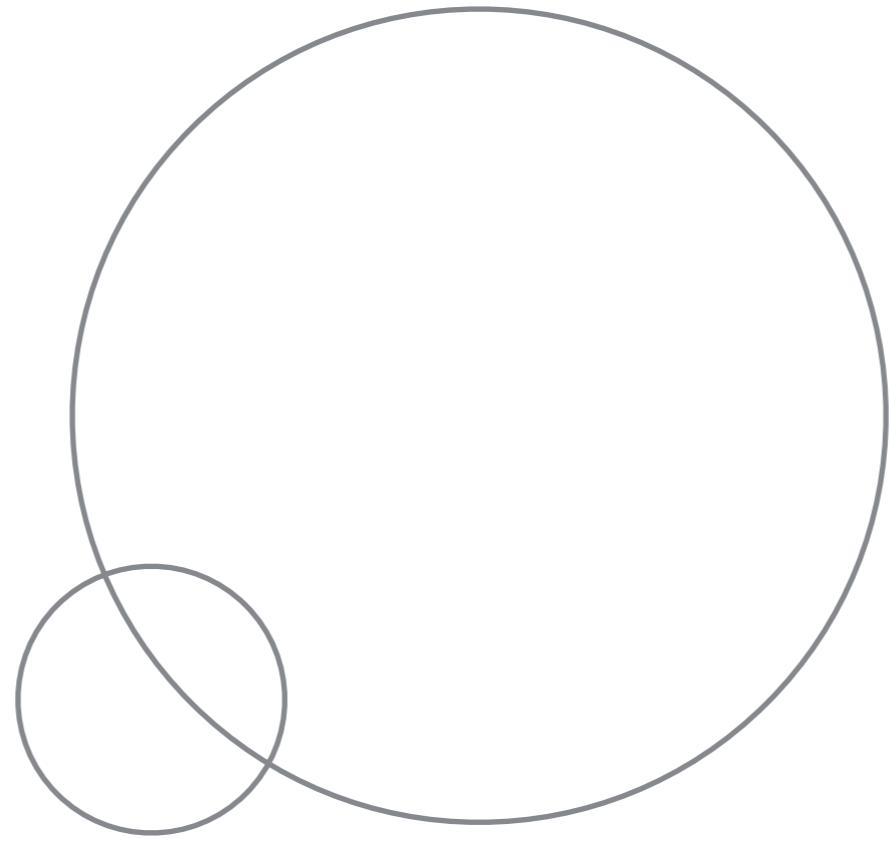


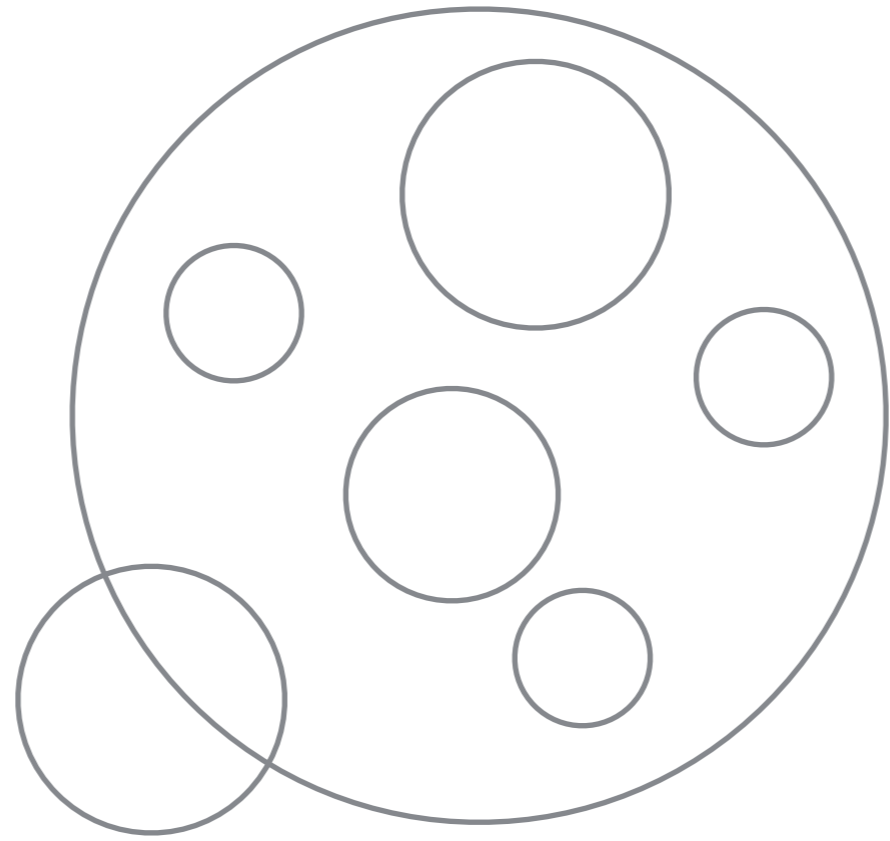
**Wooden materials**

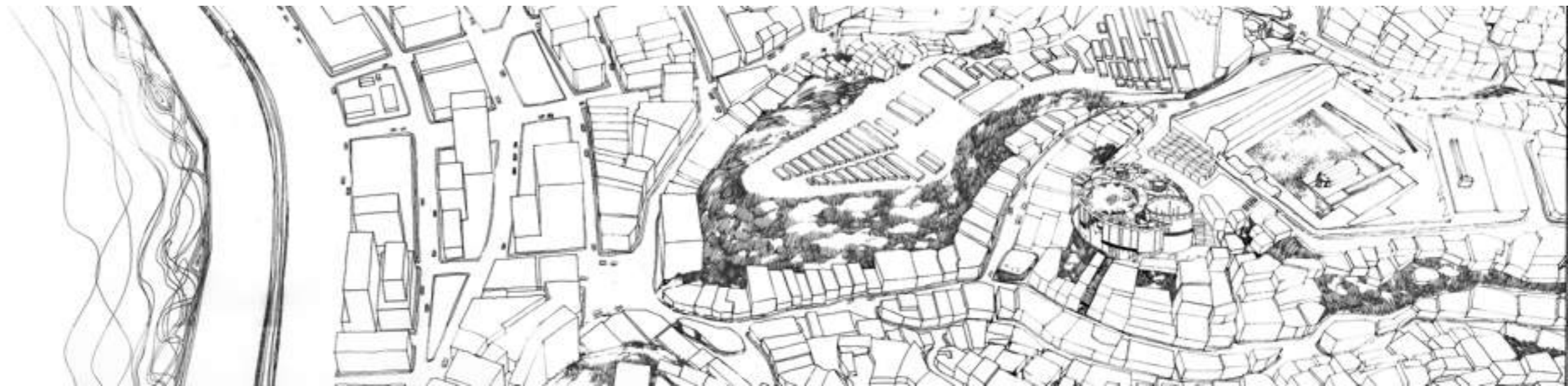
# Valparaíso upcycling market

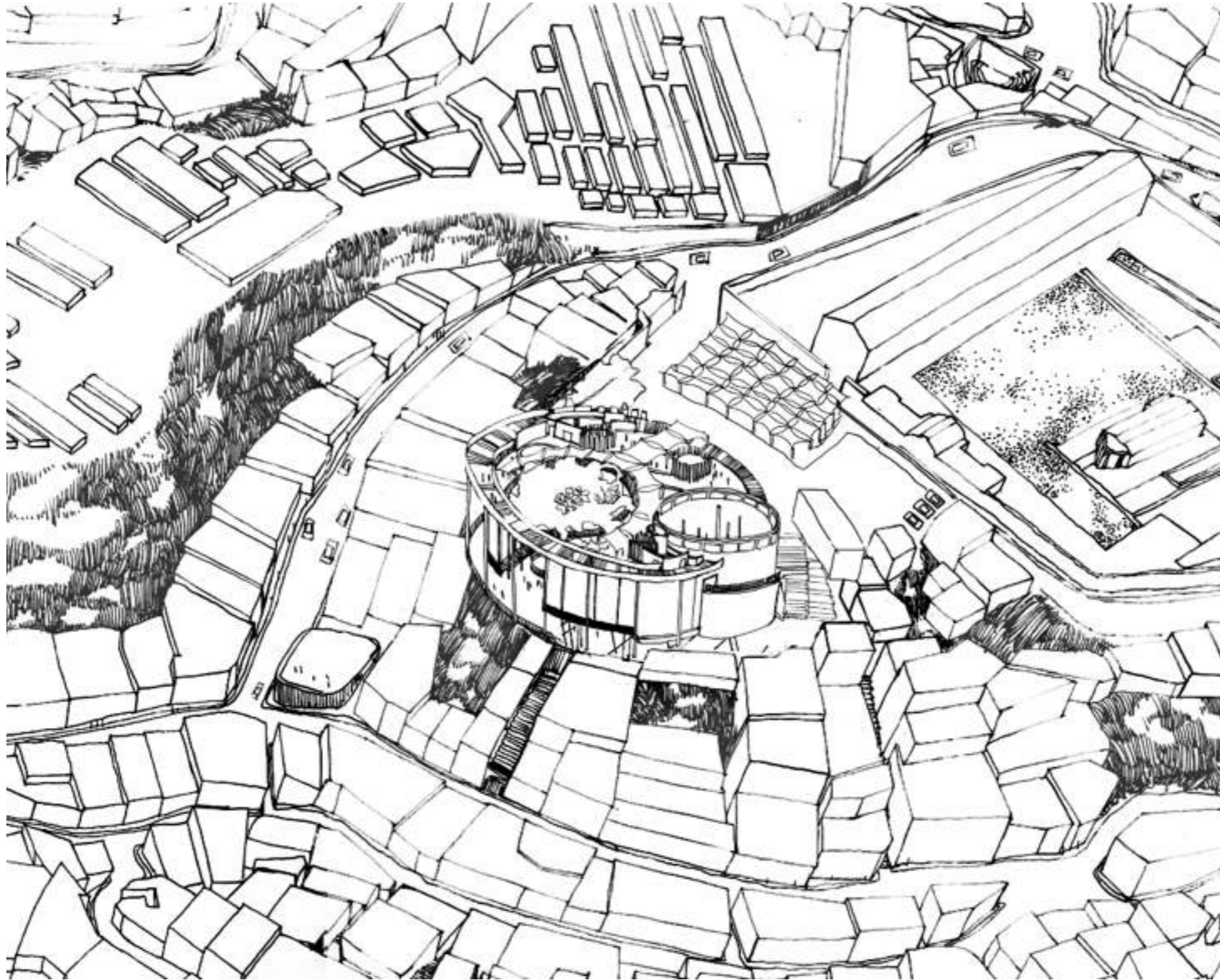
mass and views

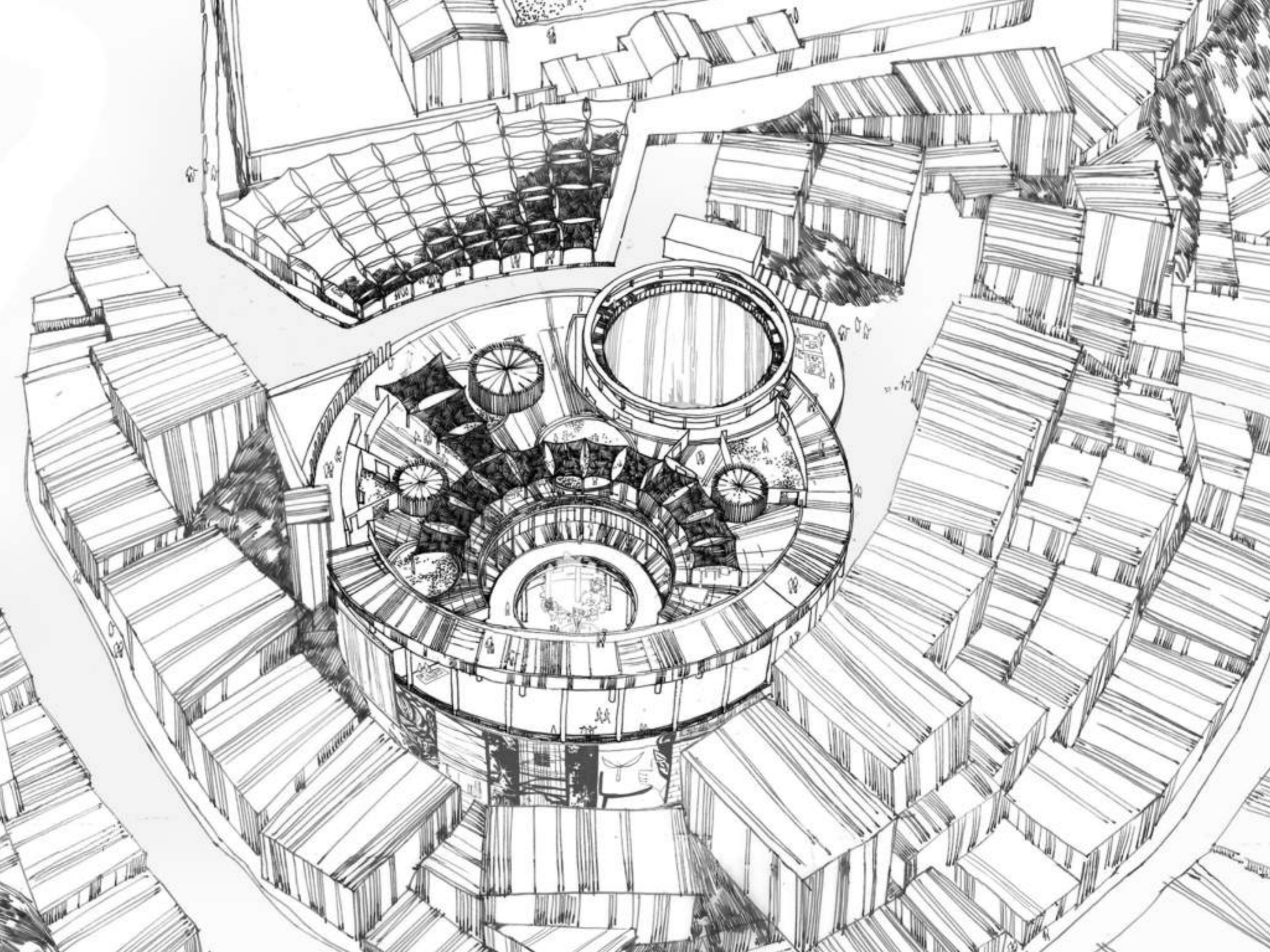


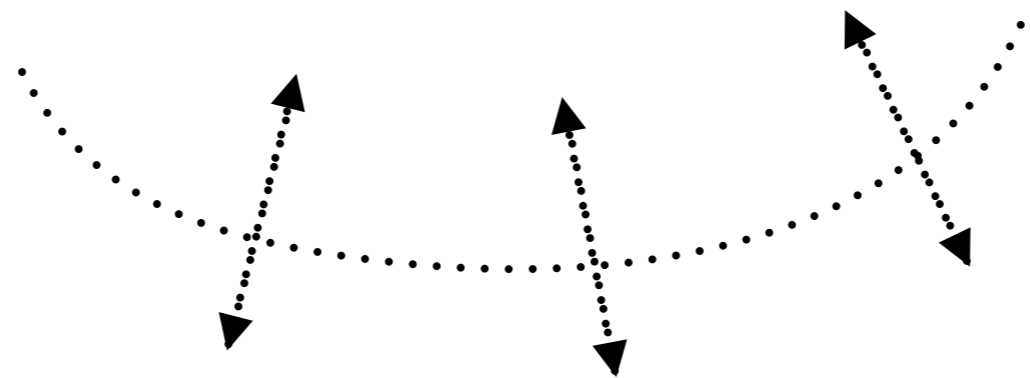


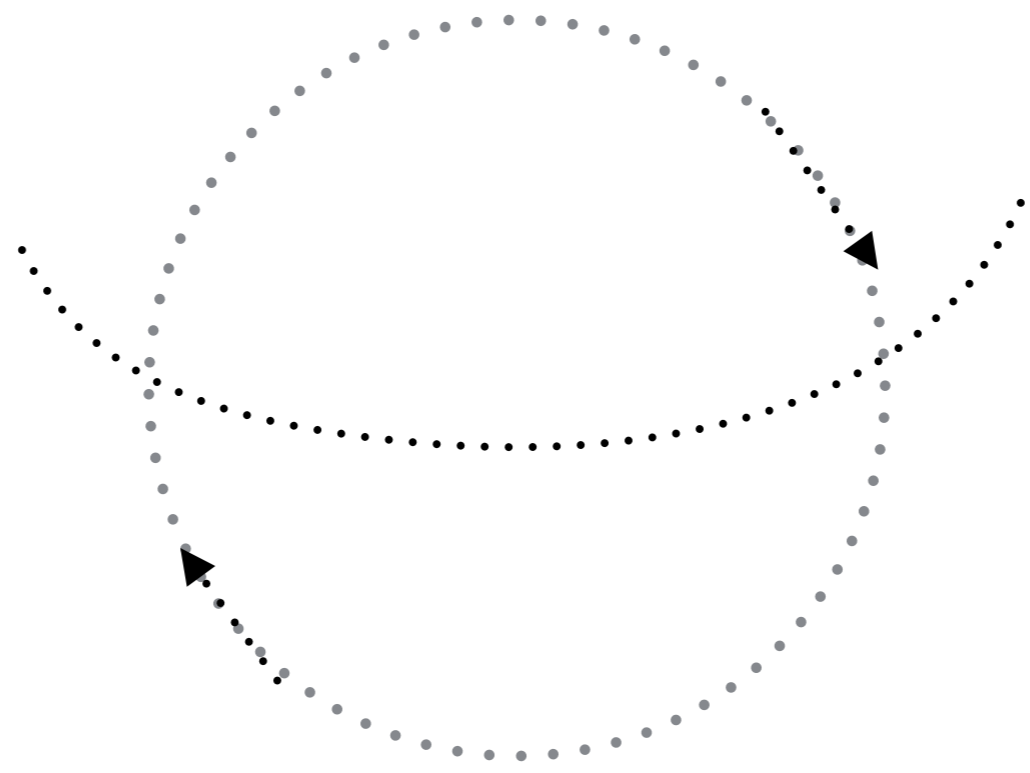






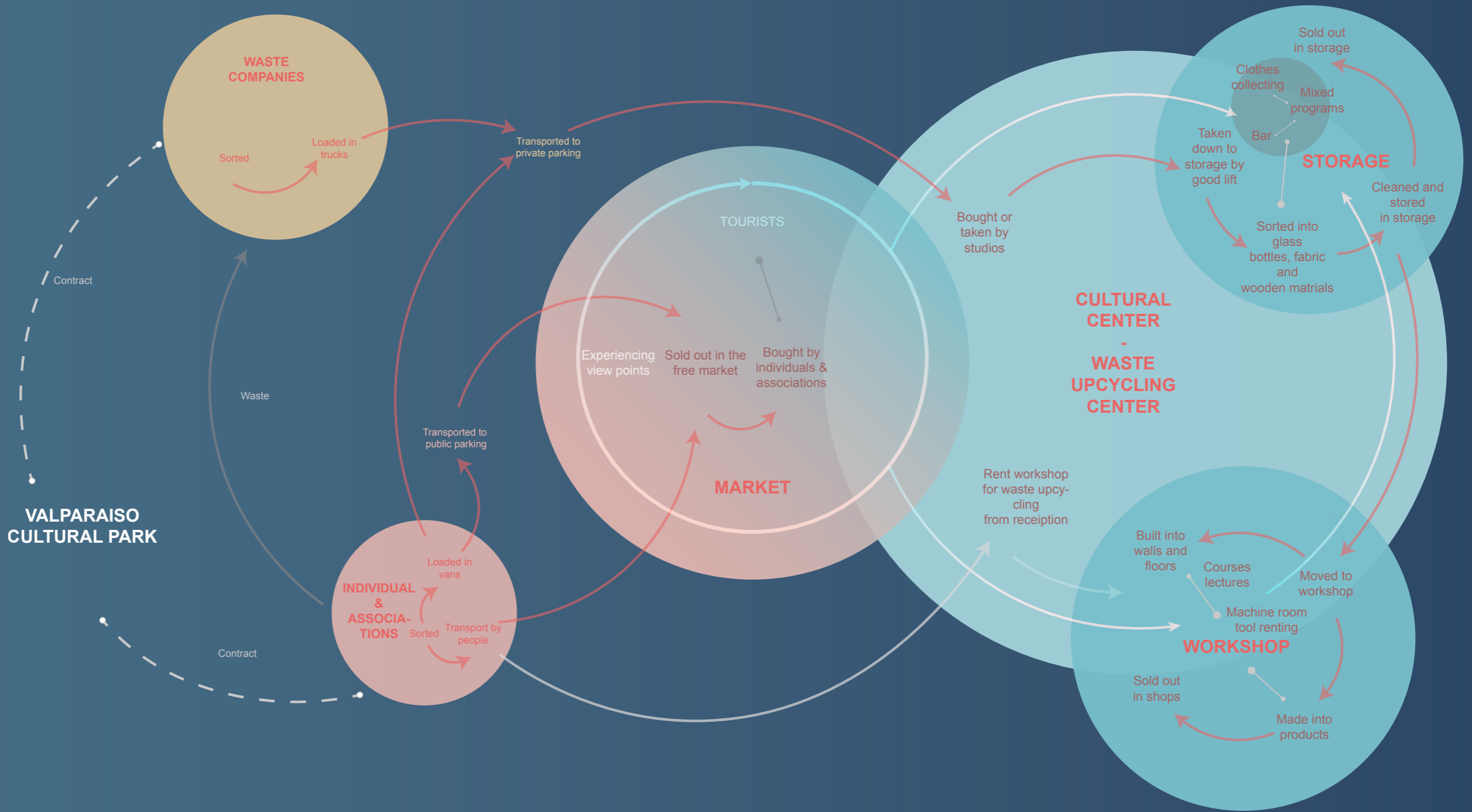


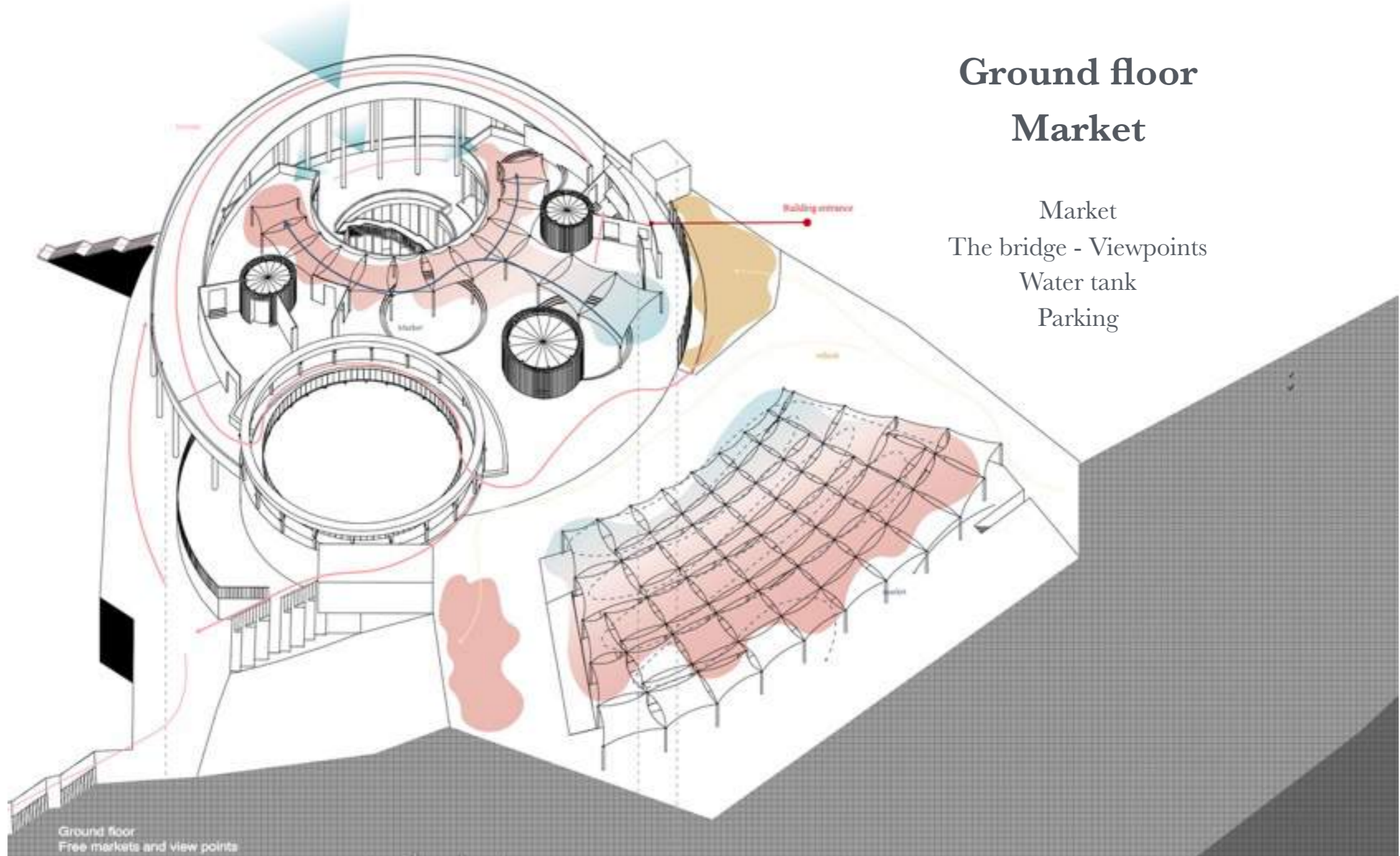




# Valparaíso upcycling market

Flows and programs

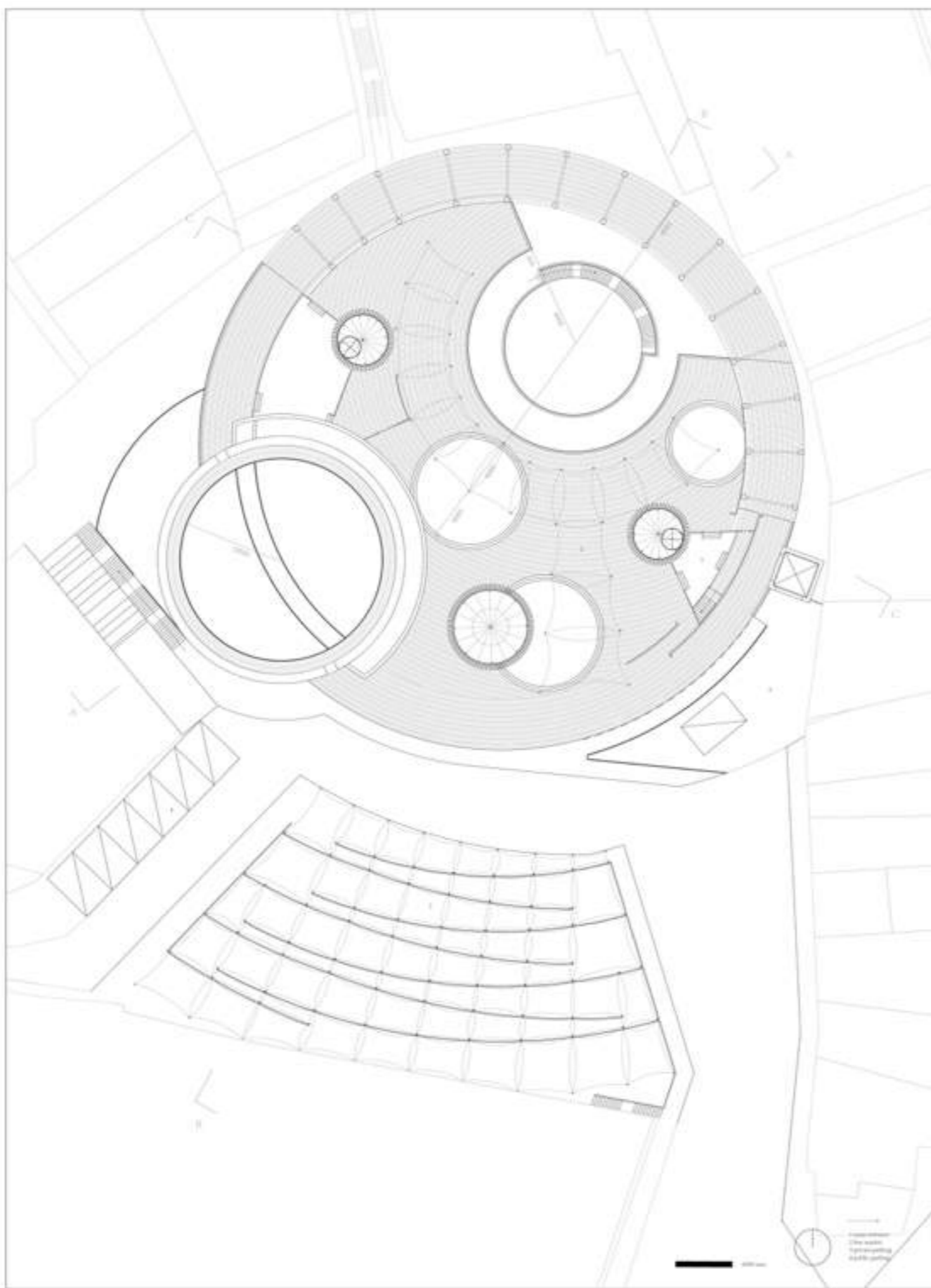


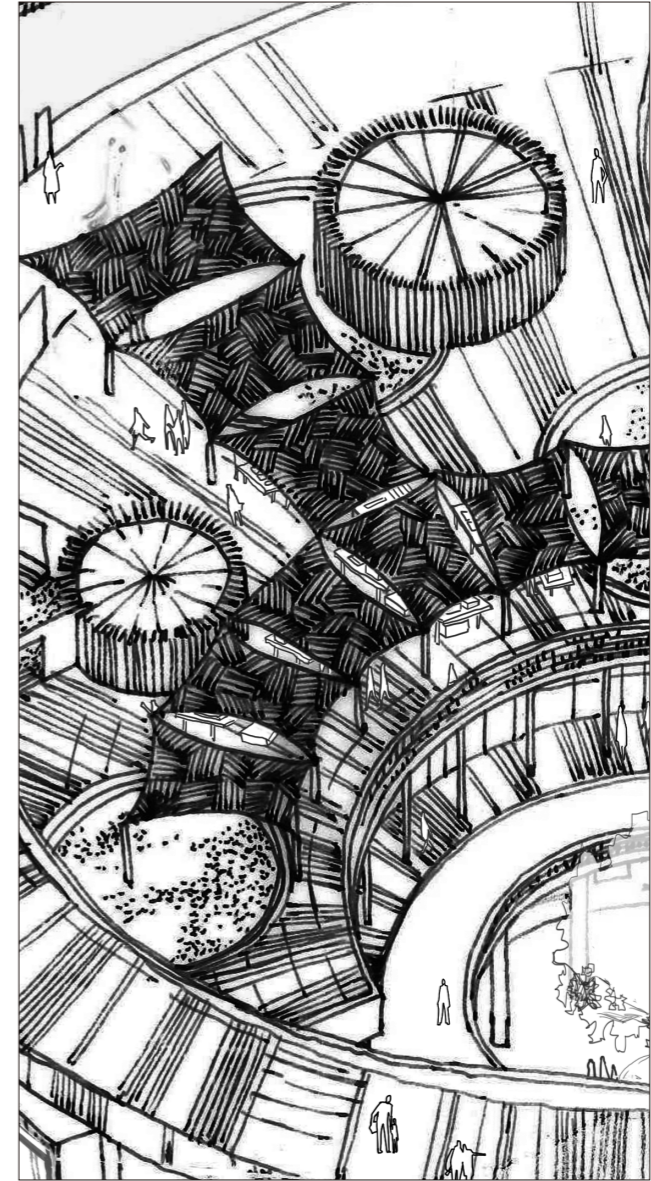
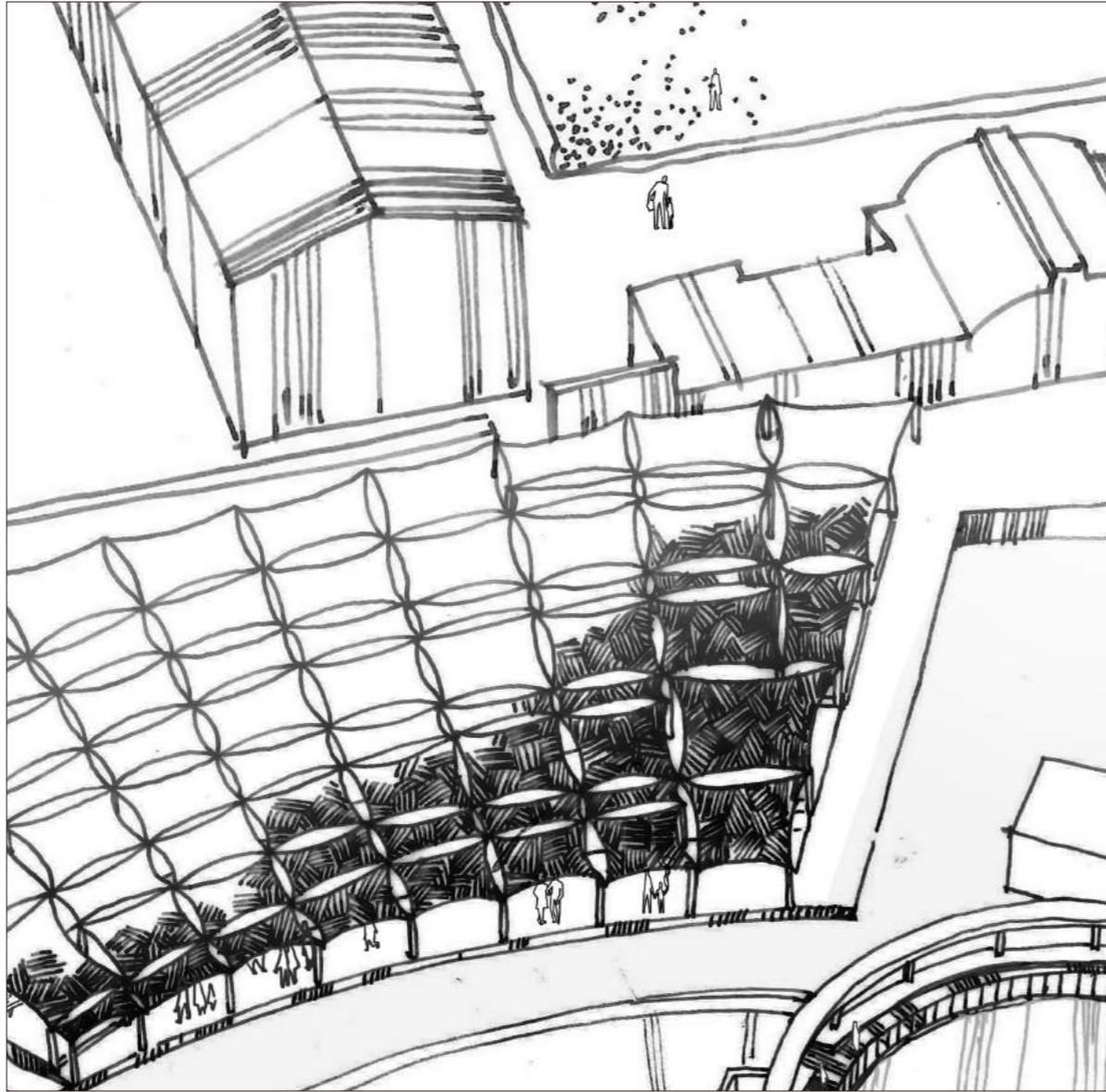


## Ground floor Market

- Market
- The bridge - Viewpoints
- Water tank
- Parking

Ground floor  
Free markets and view points

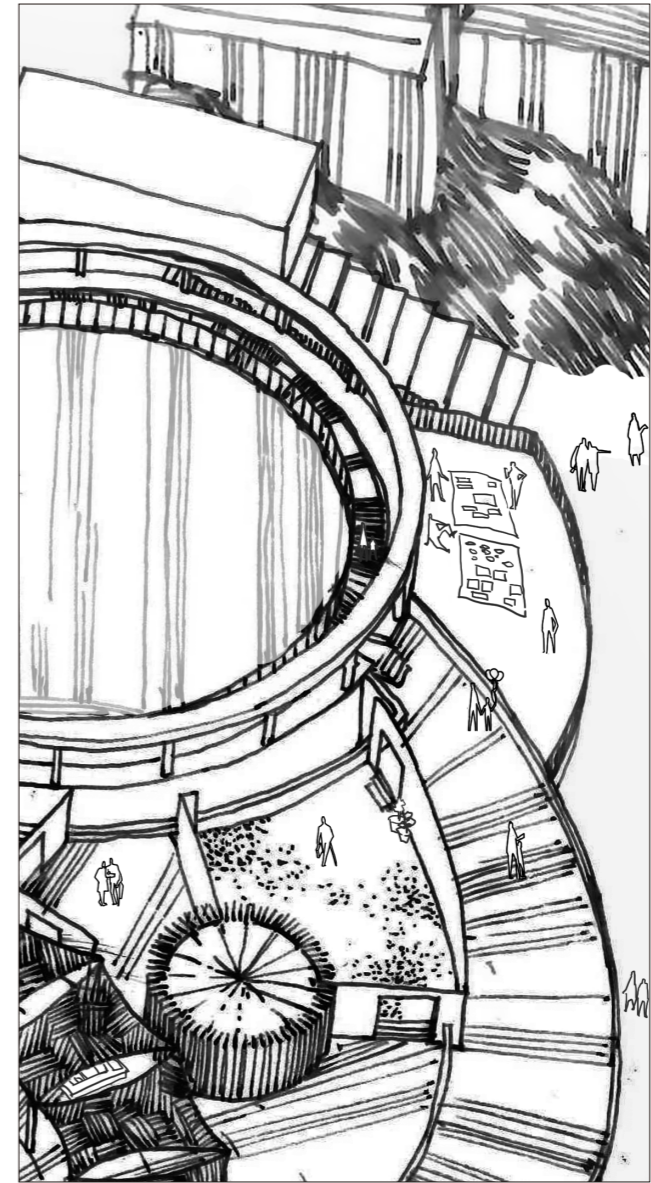
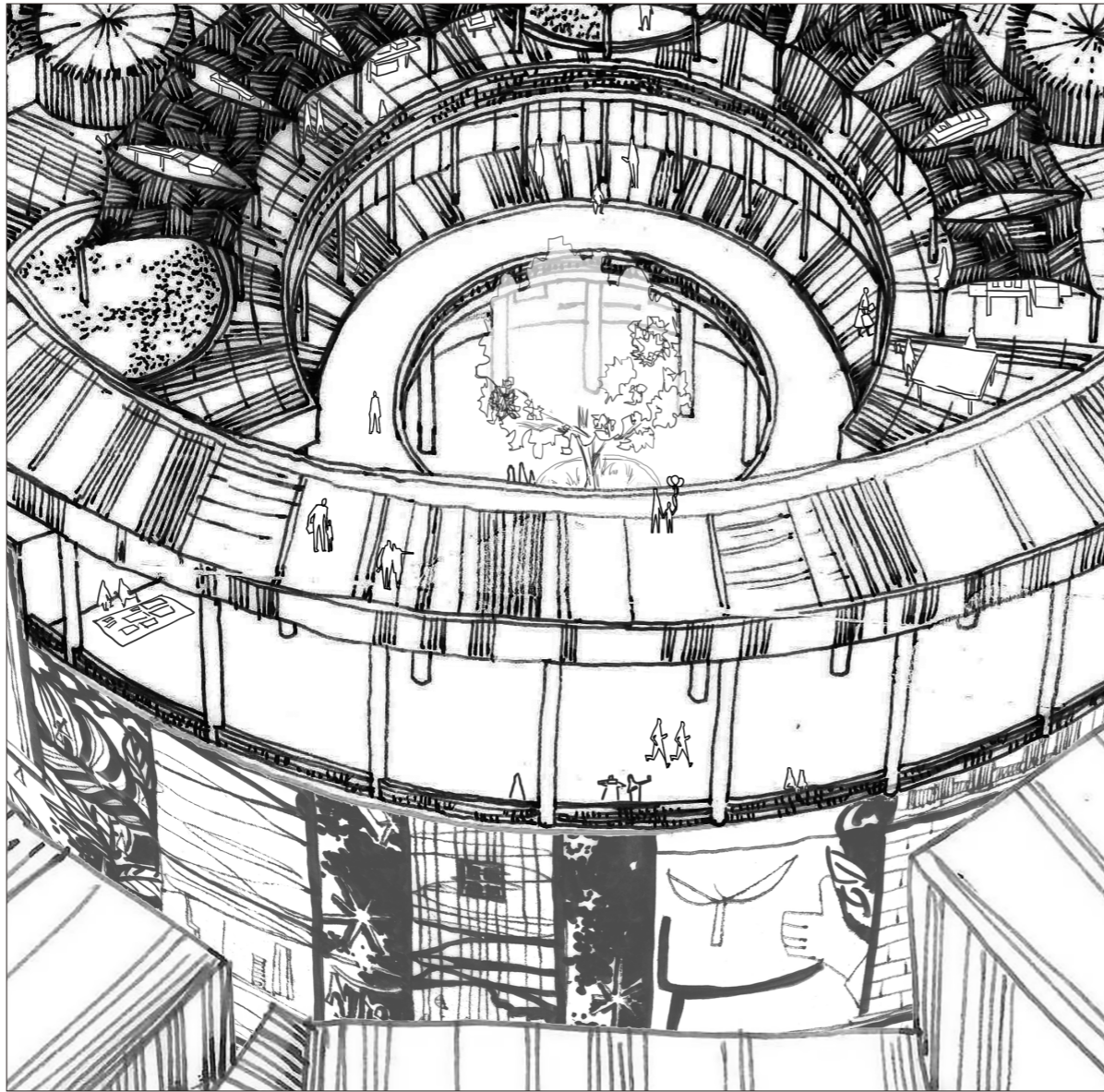




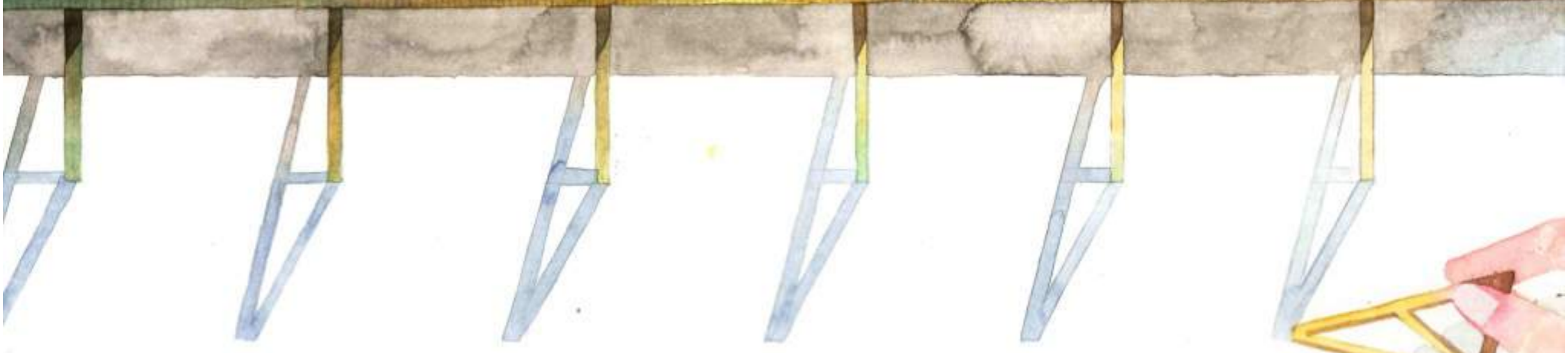
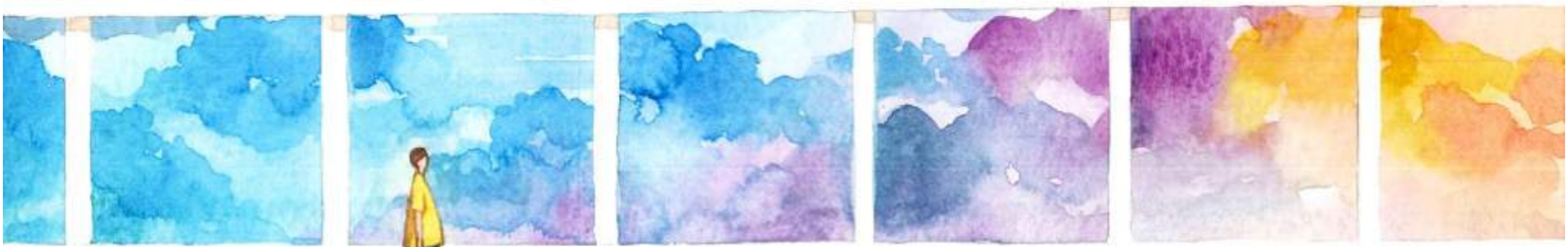


Zoe  
2018.6.17









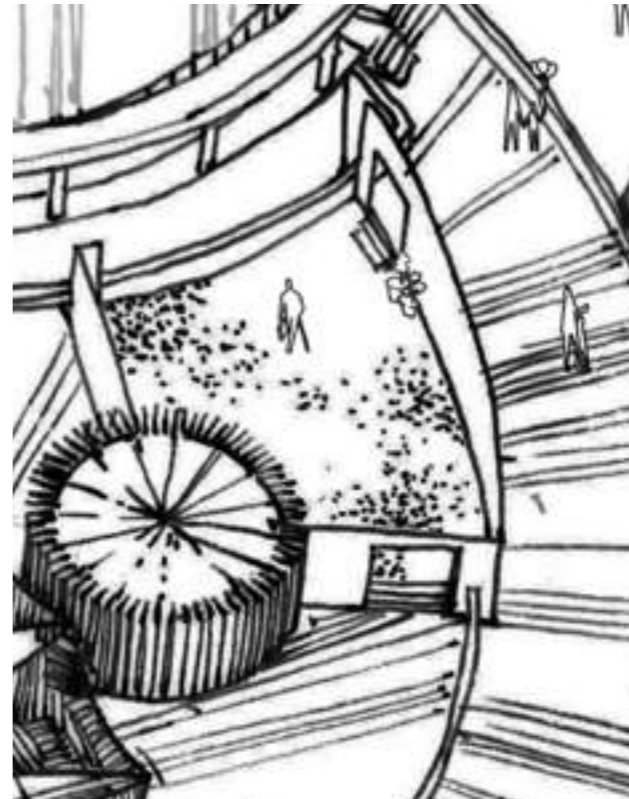
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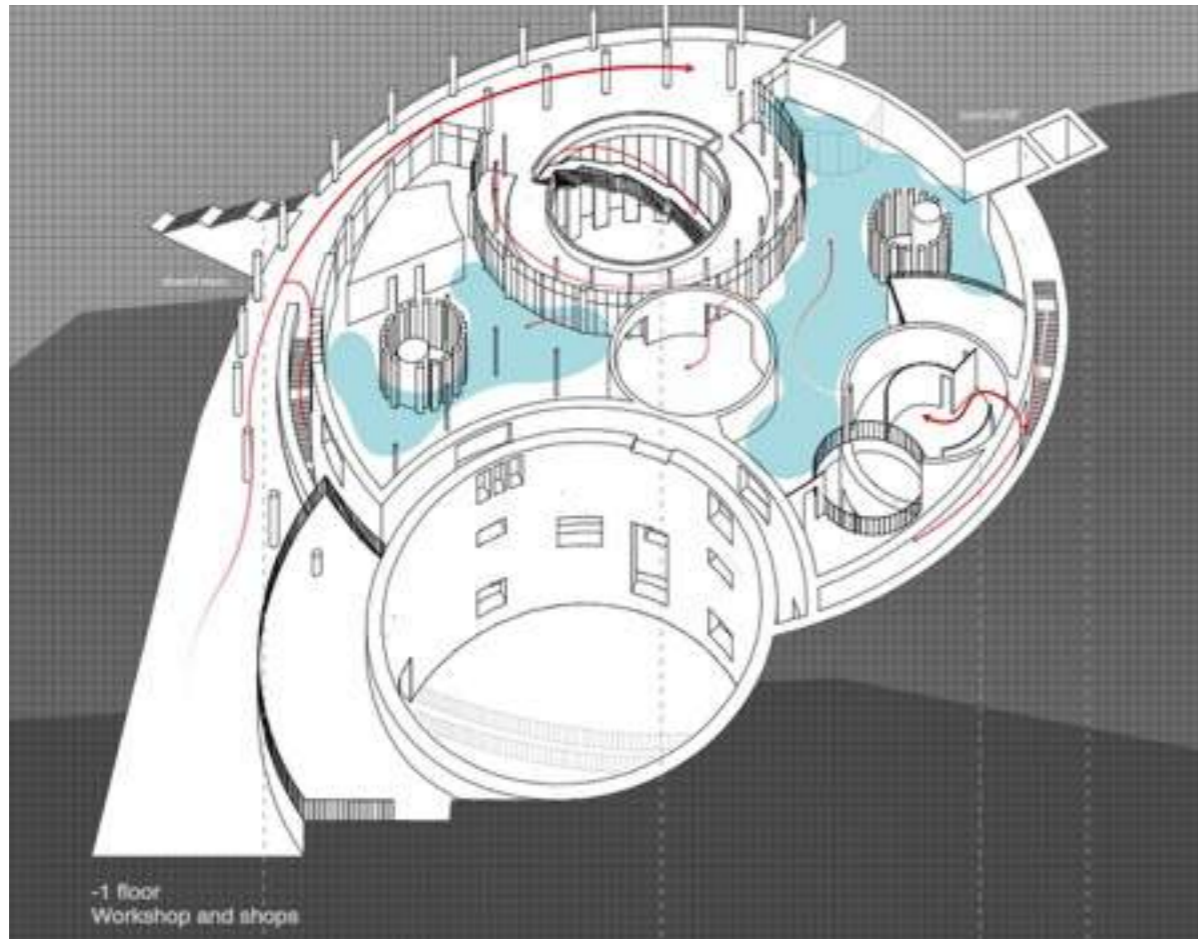


RAAAF

*Affordances as a resource*



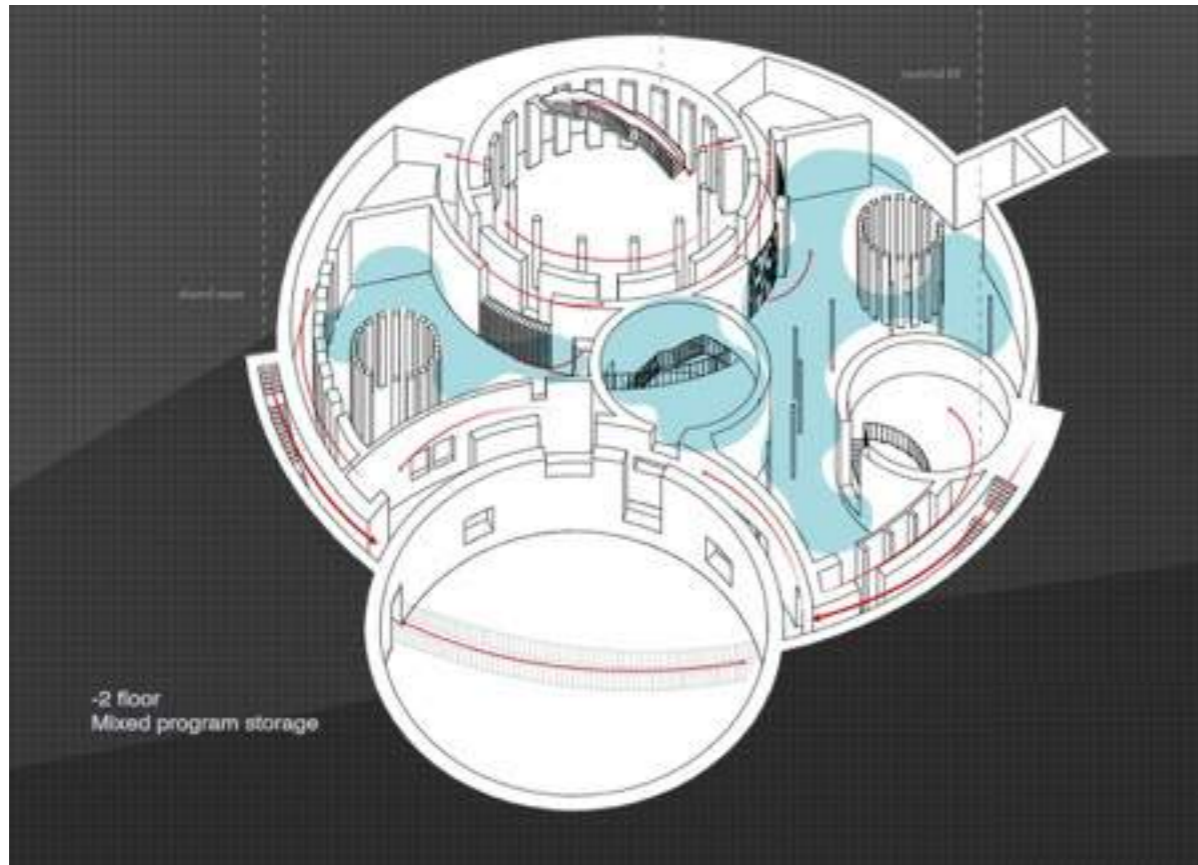




## **-1 Floor Workshop**

Reception  
Workshop for large and small groups  
Machine room  
Lecture hall  
  
Shop  
Cafe  
  
Viewpoint  
Courtyard





## **-2 Floor Storage**

Studio office

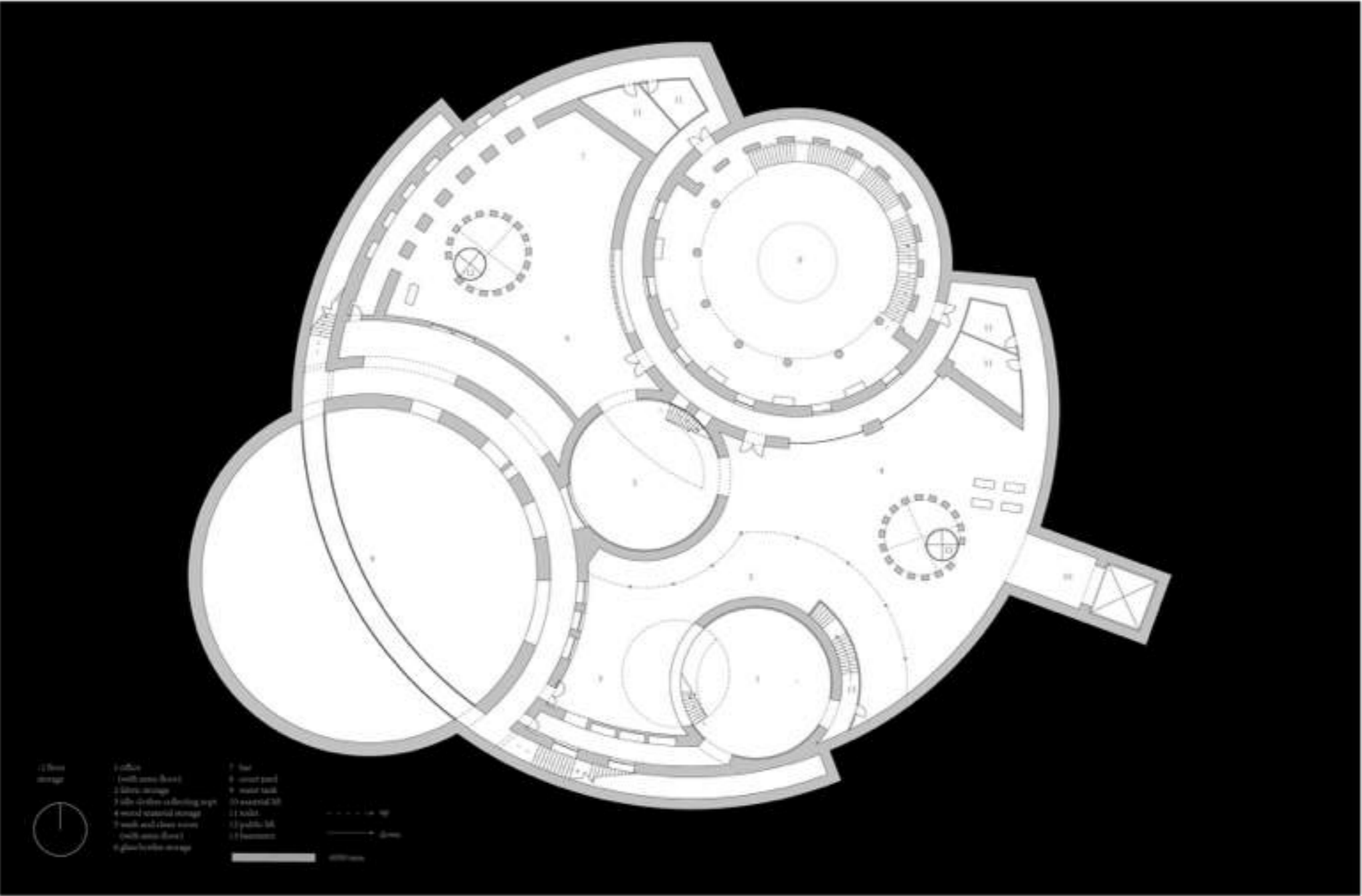
Fabric storage with clothes collecting

Wooden material storage

Glass bottles storage with a bar

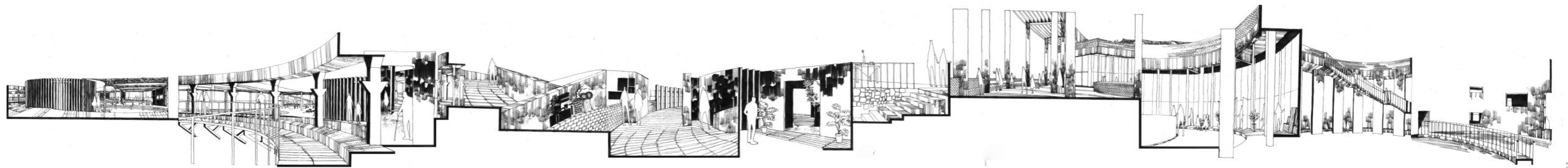
Wash and clean

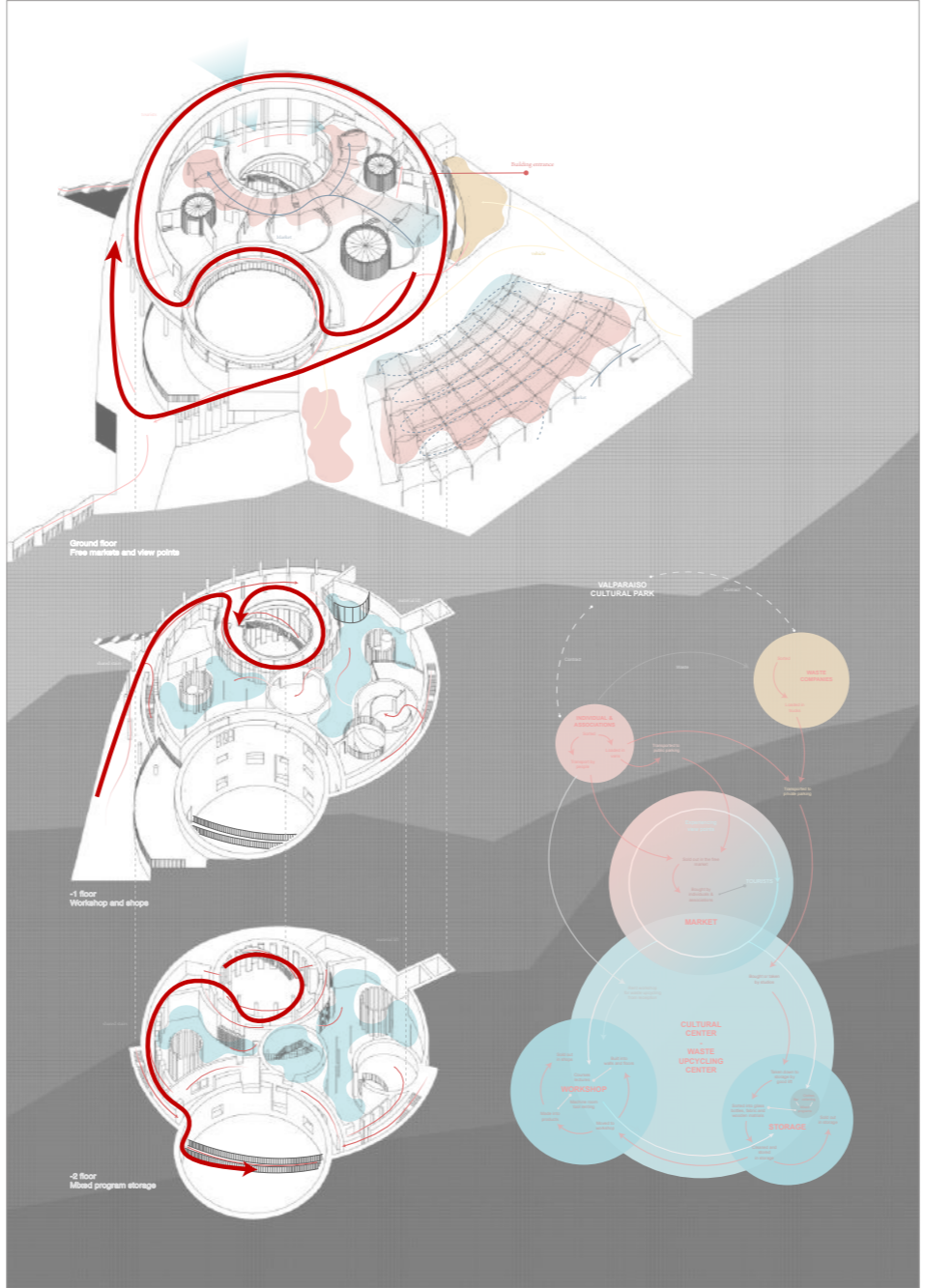
Courtyard with intimate atmosphere

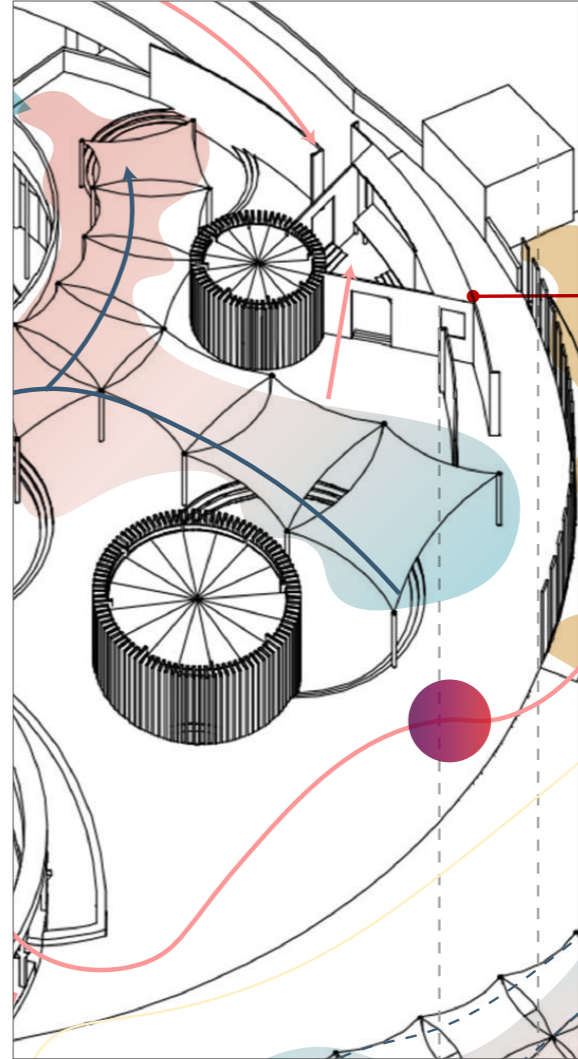
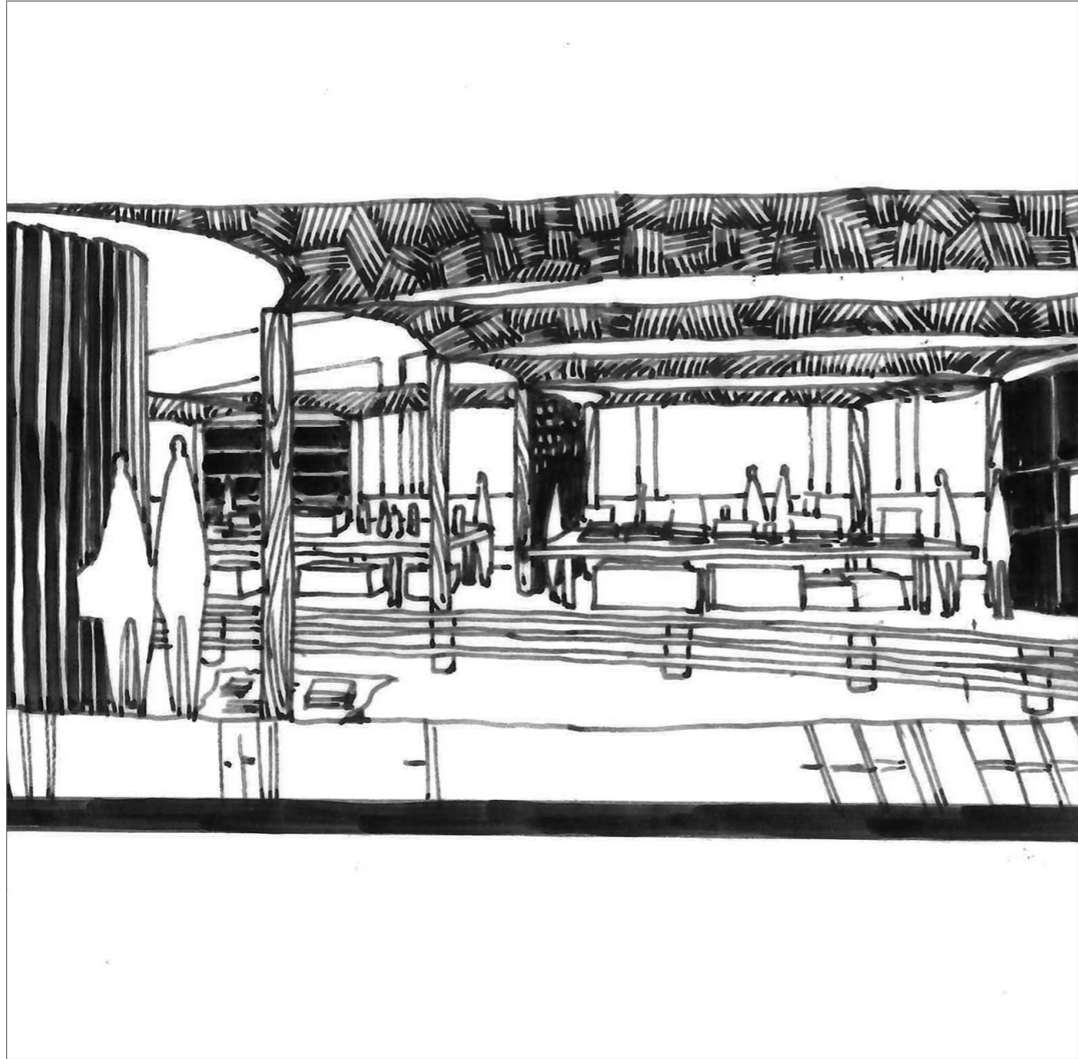


# Valparaíso upcycling market

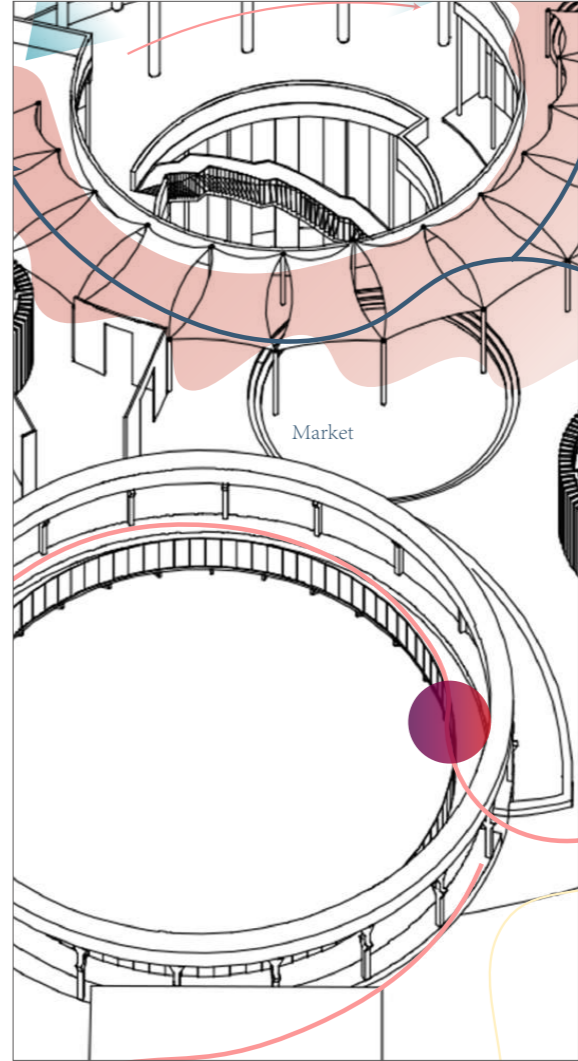
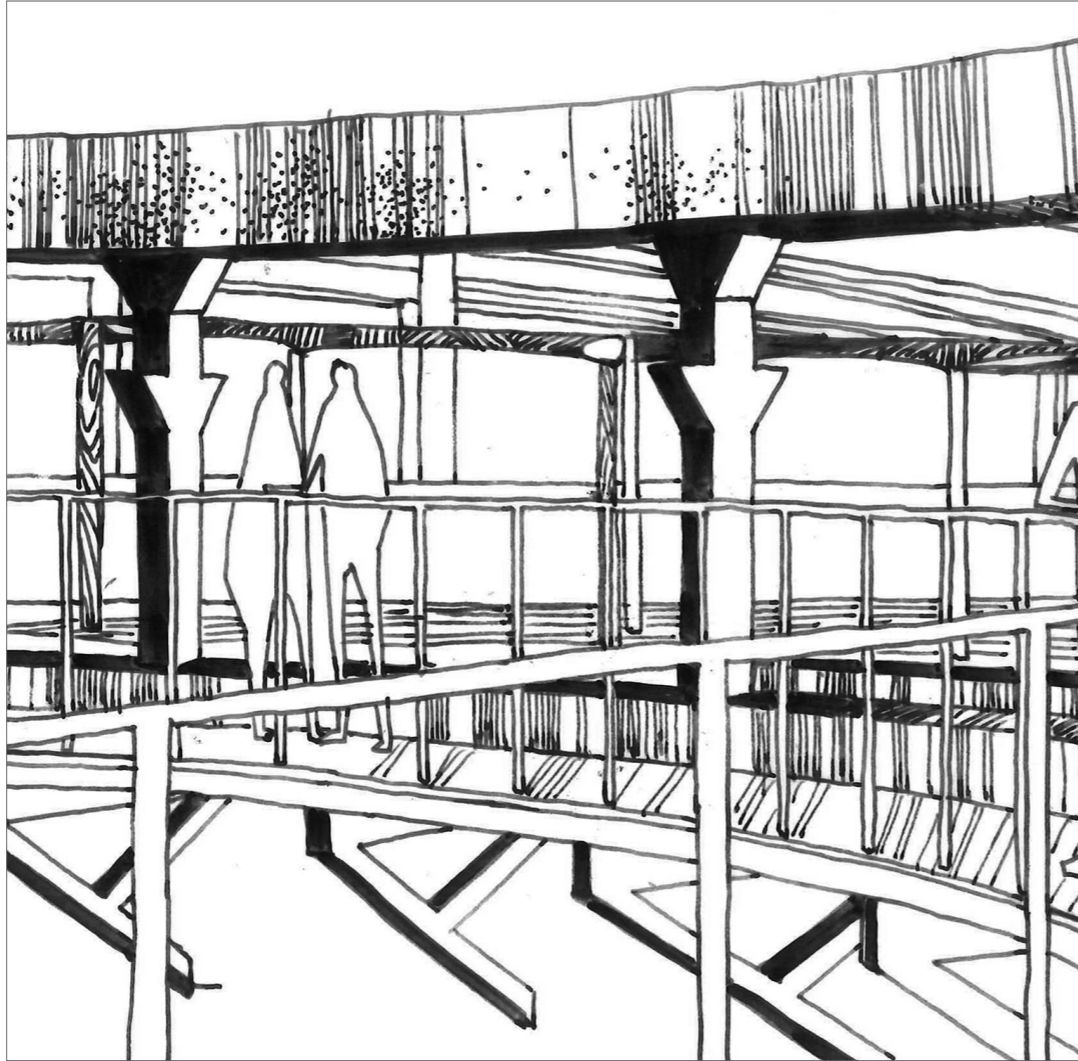
External circulation



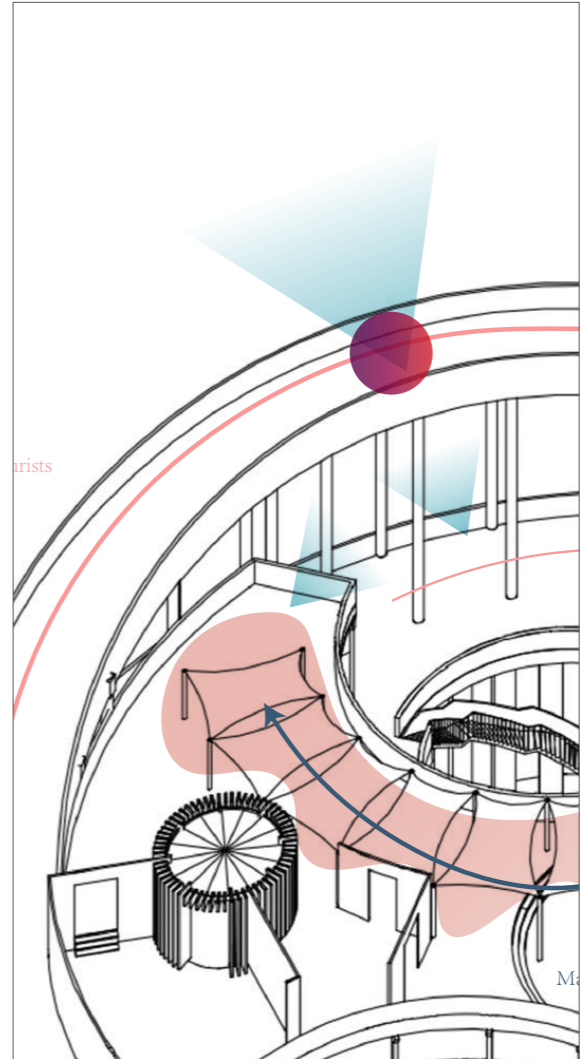
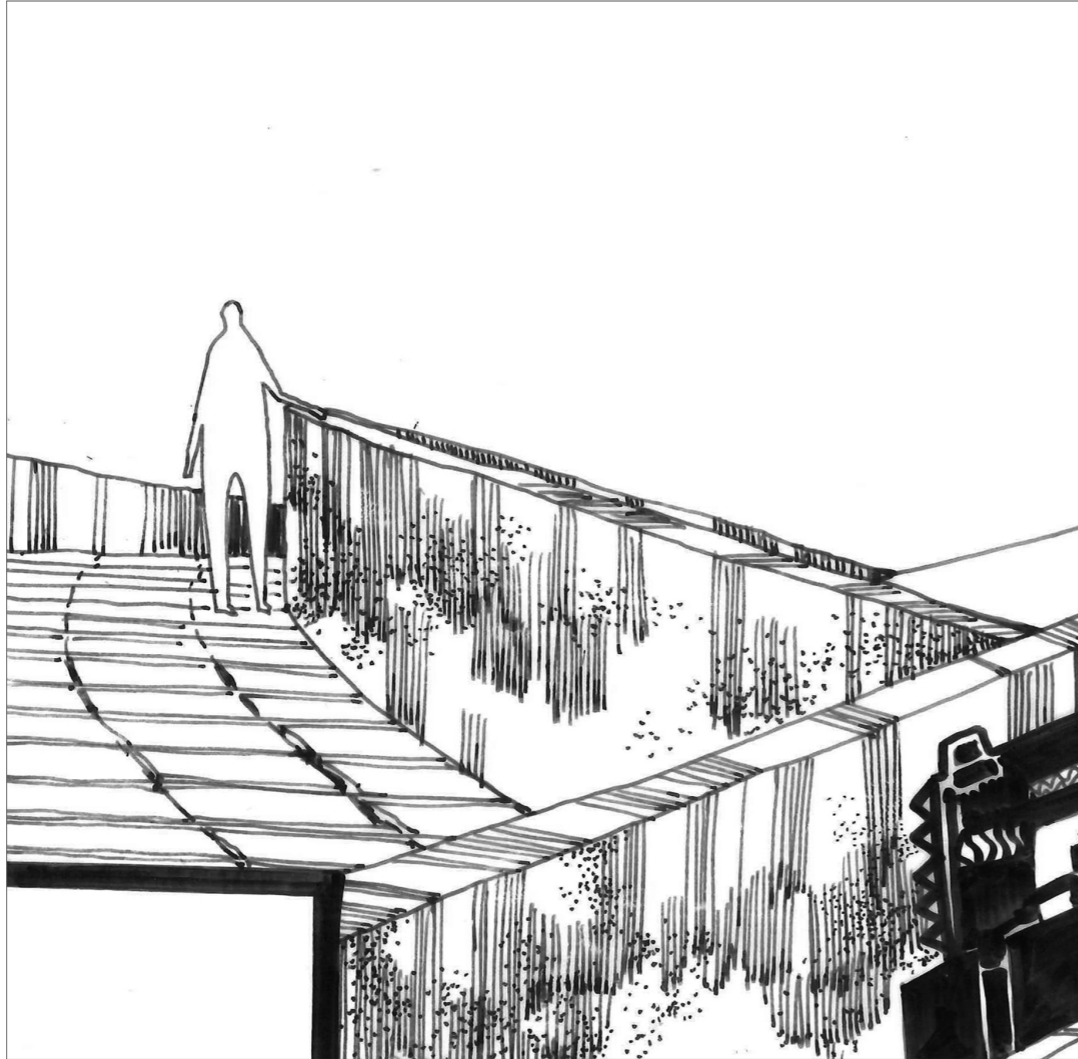




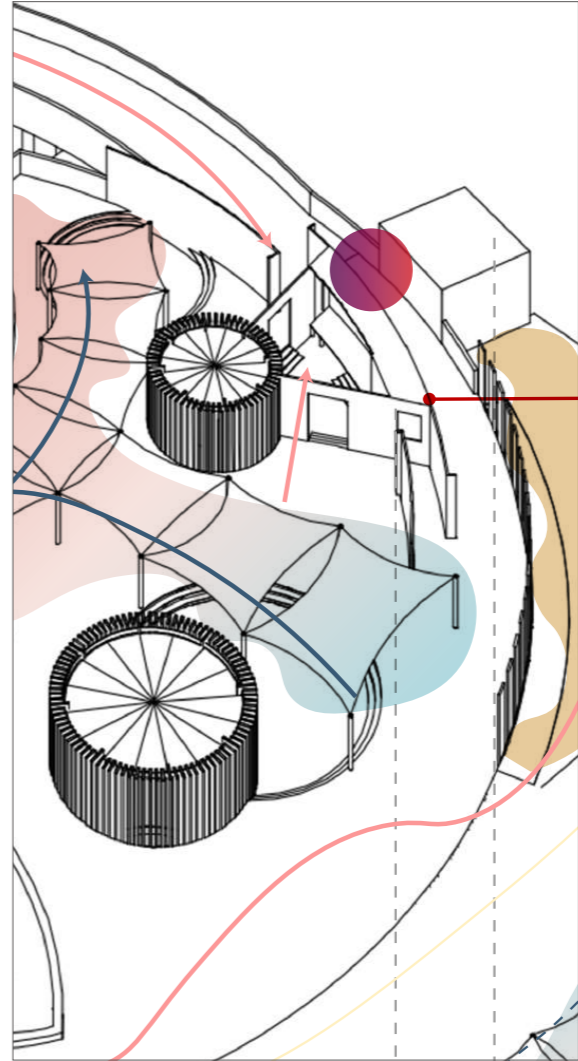
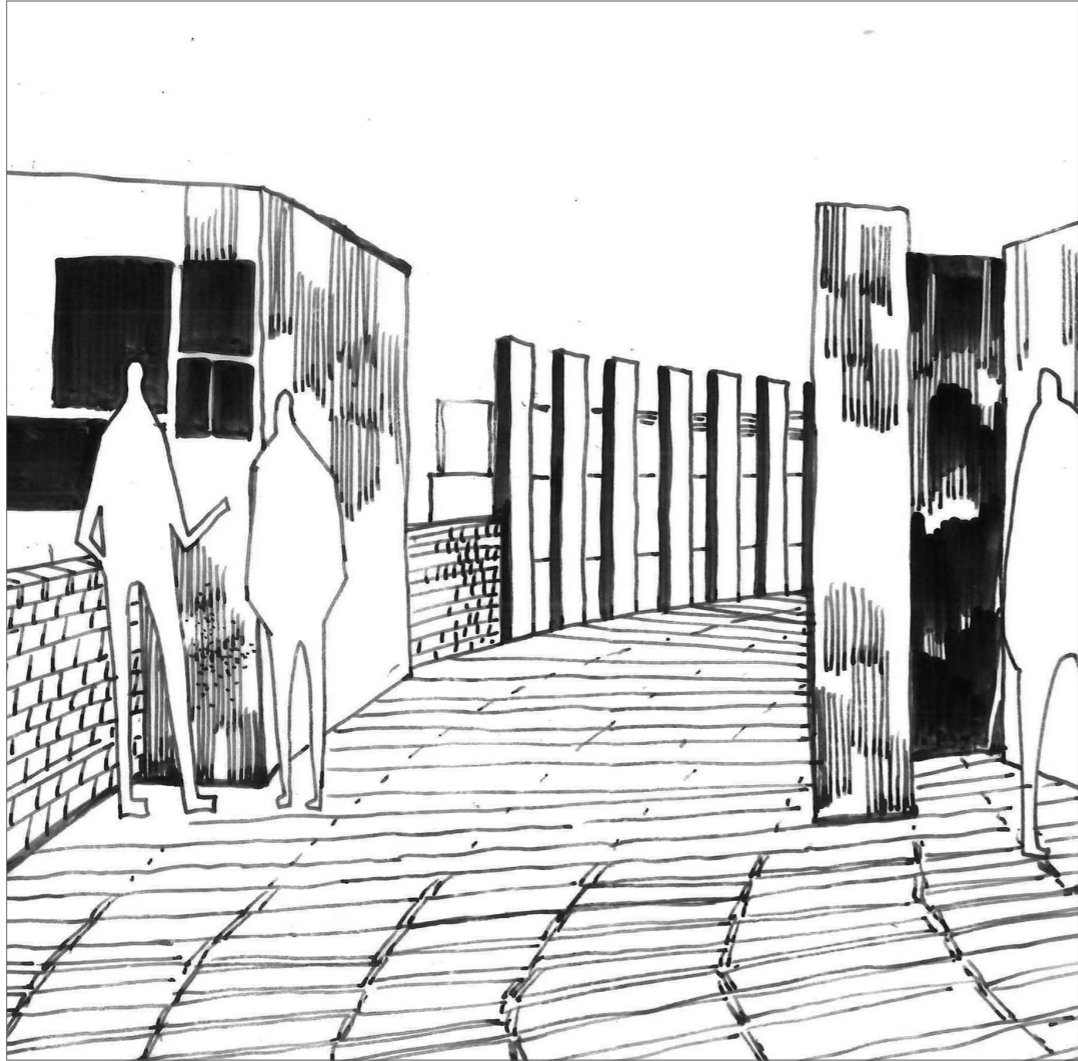
Market



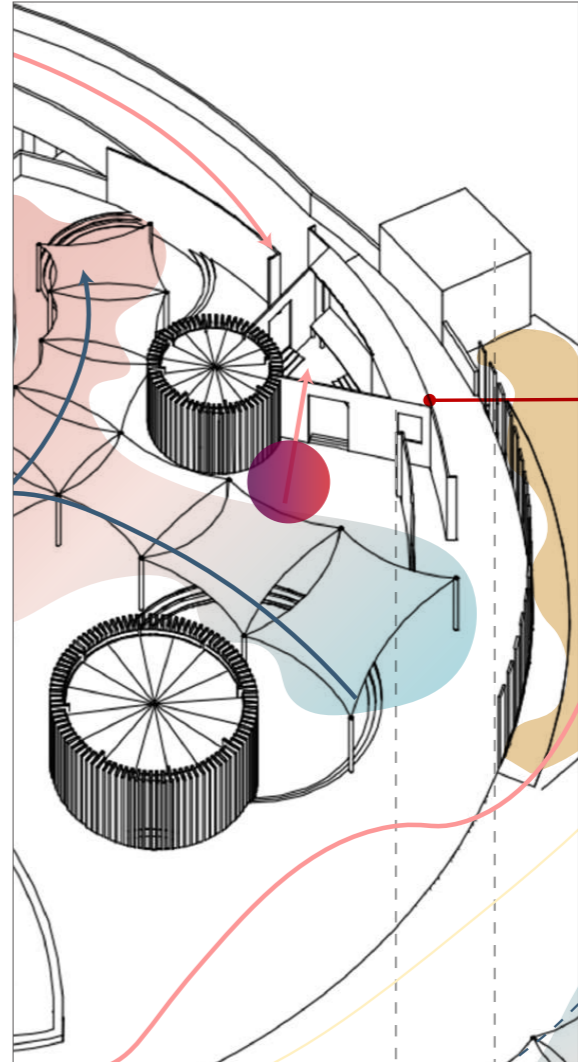
Water tank



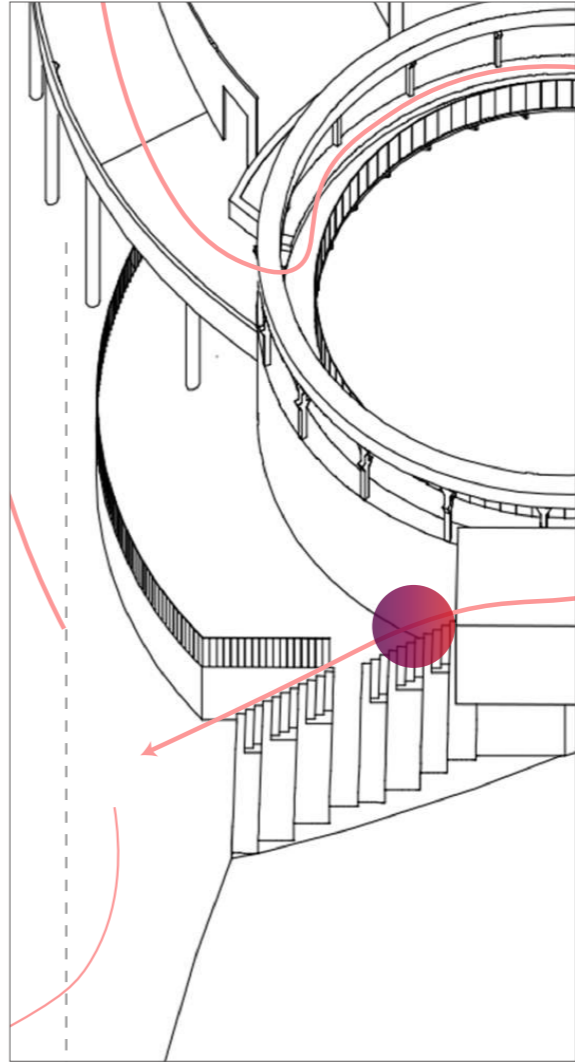
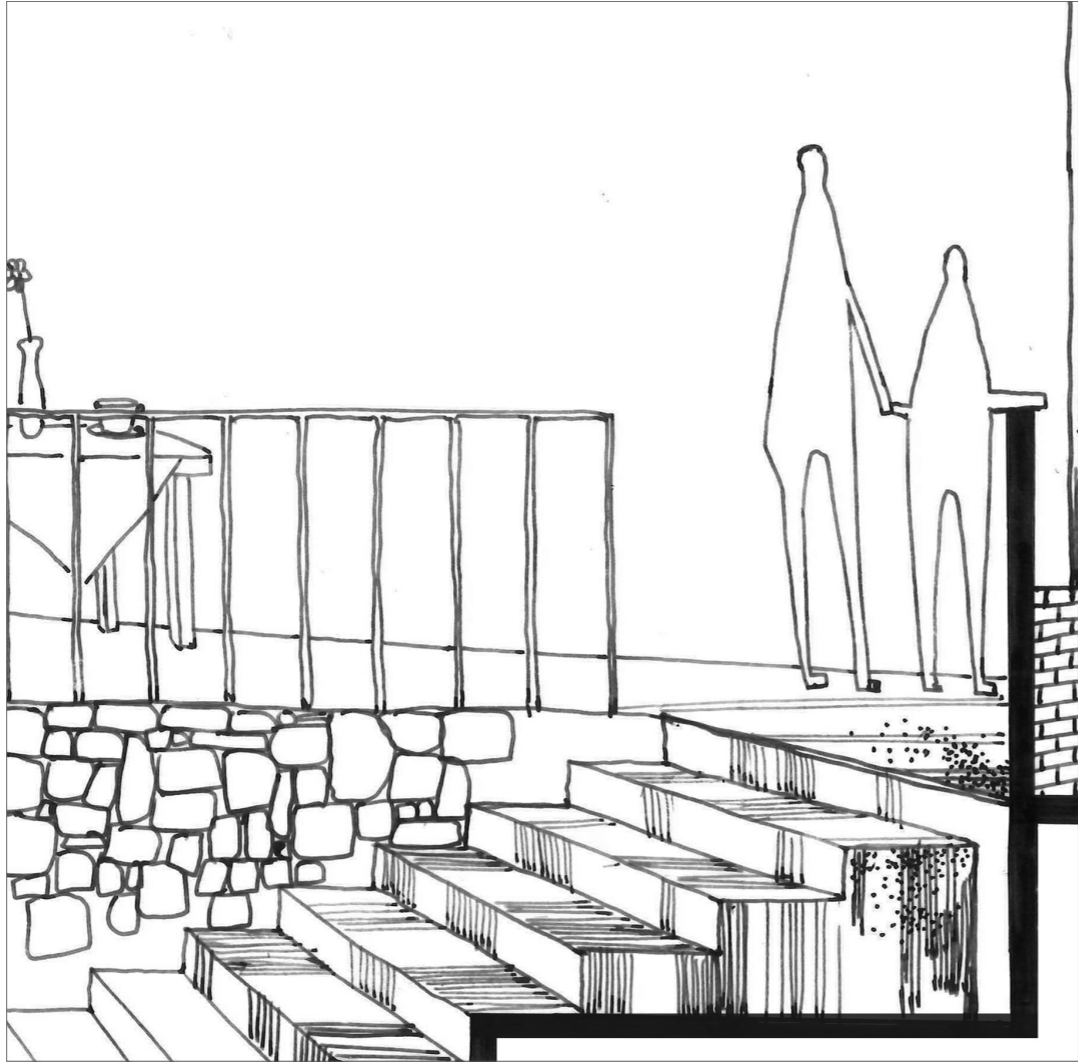
Bridge



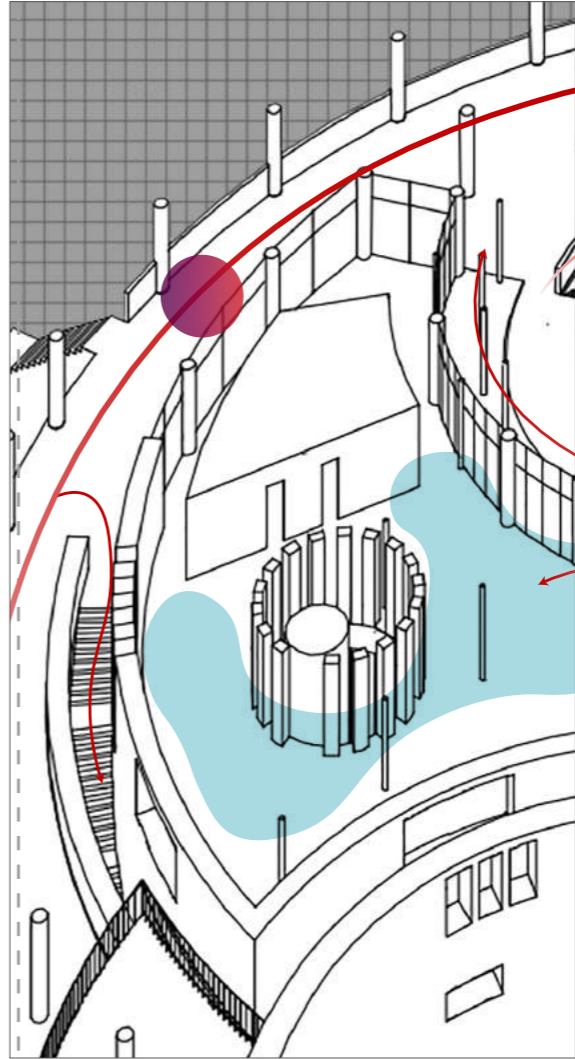
Bridge



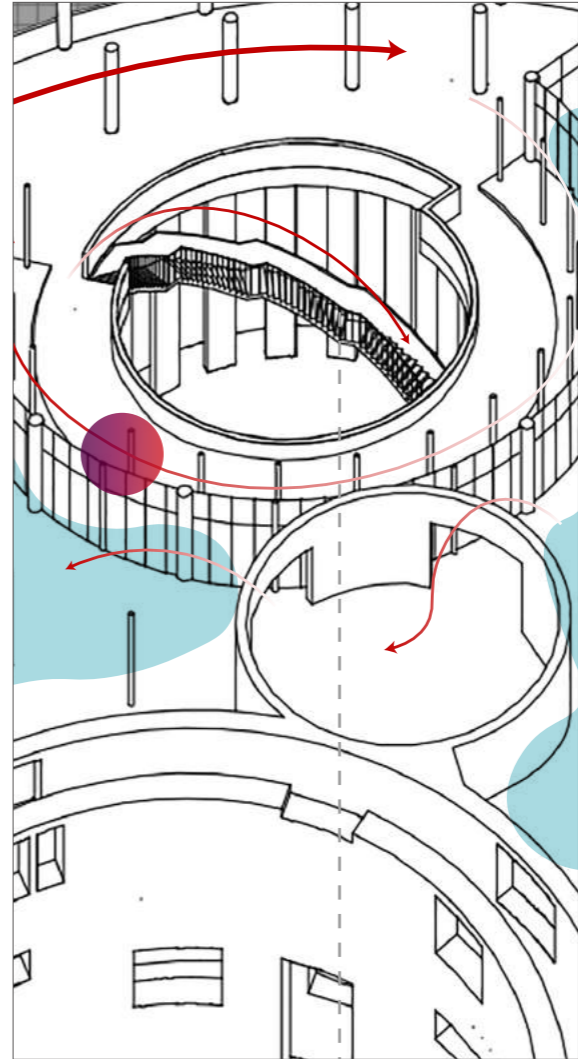
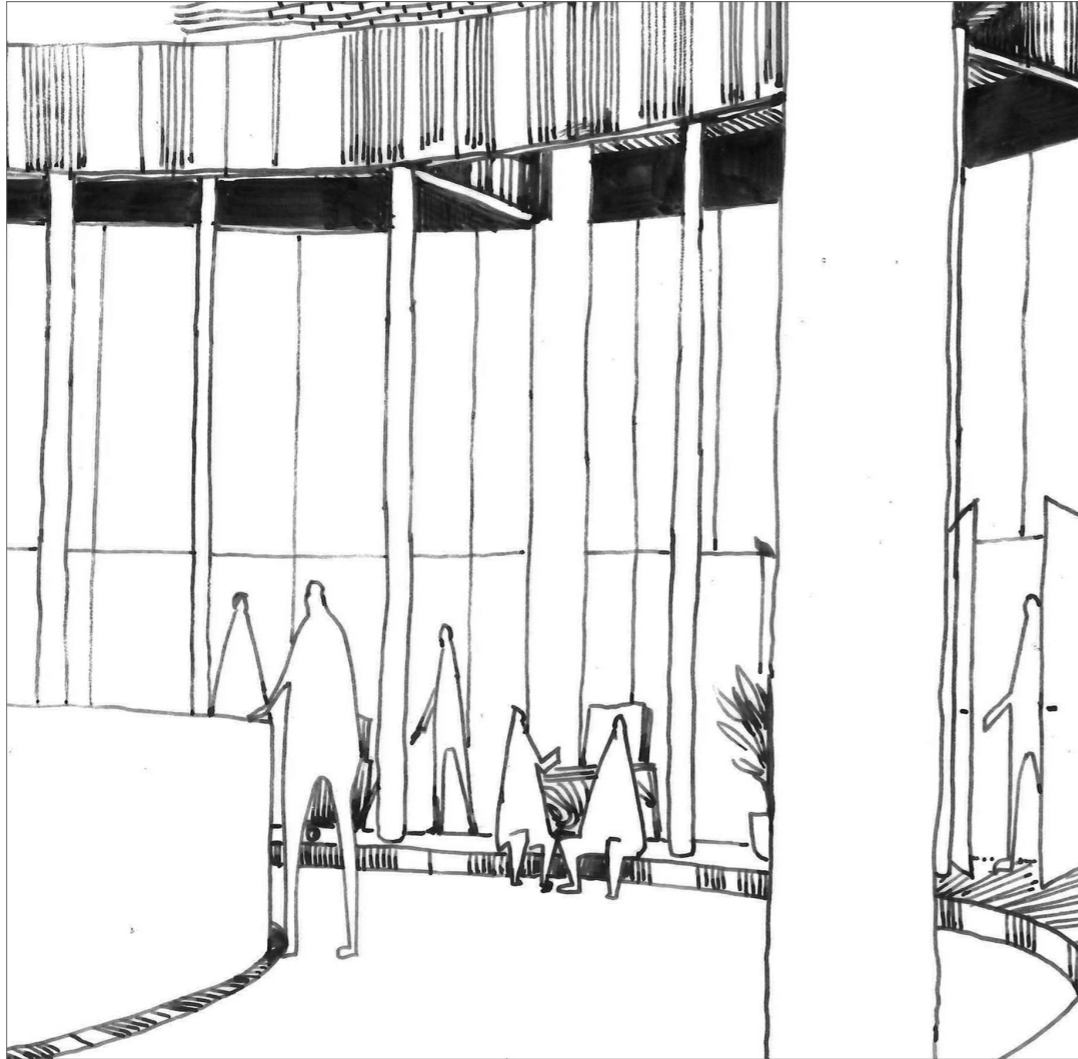
Entrance cort yard



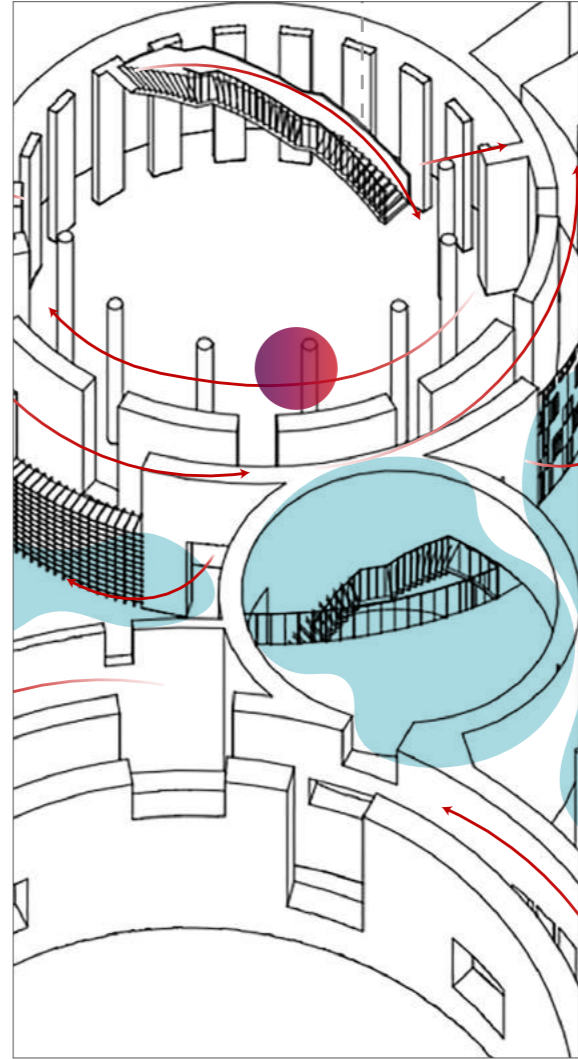
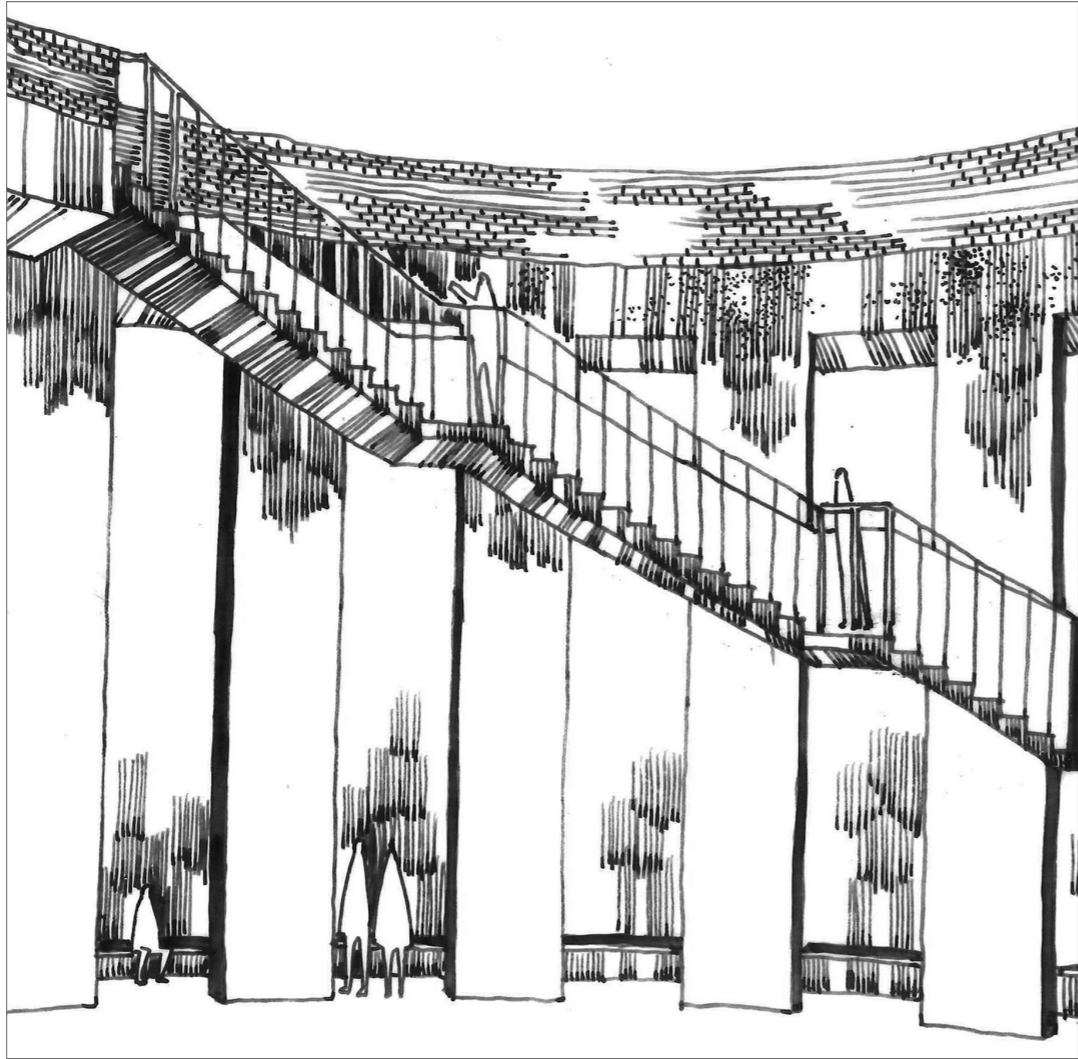
Step platform



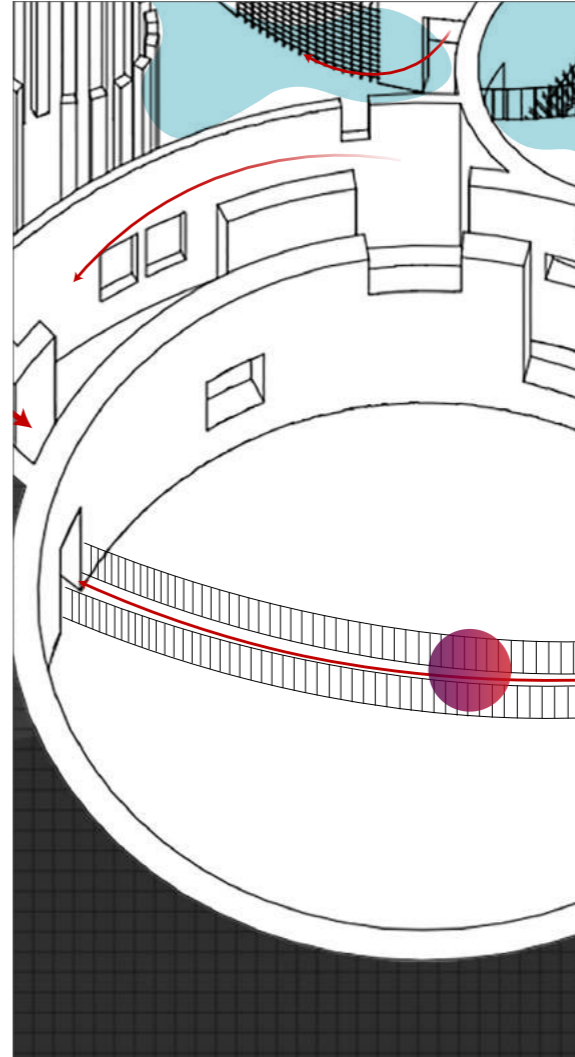
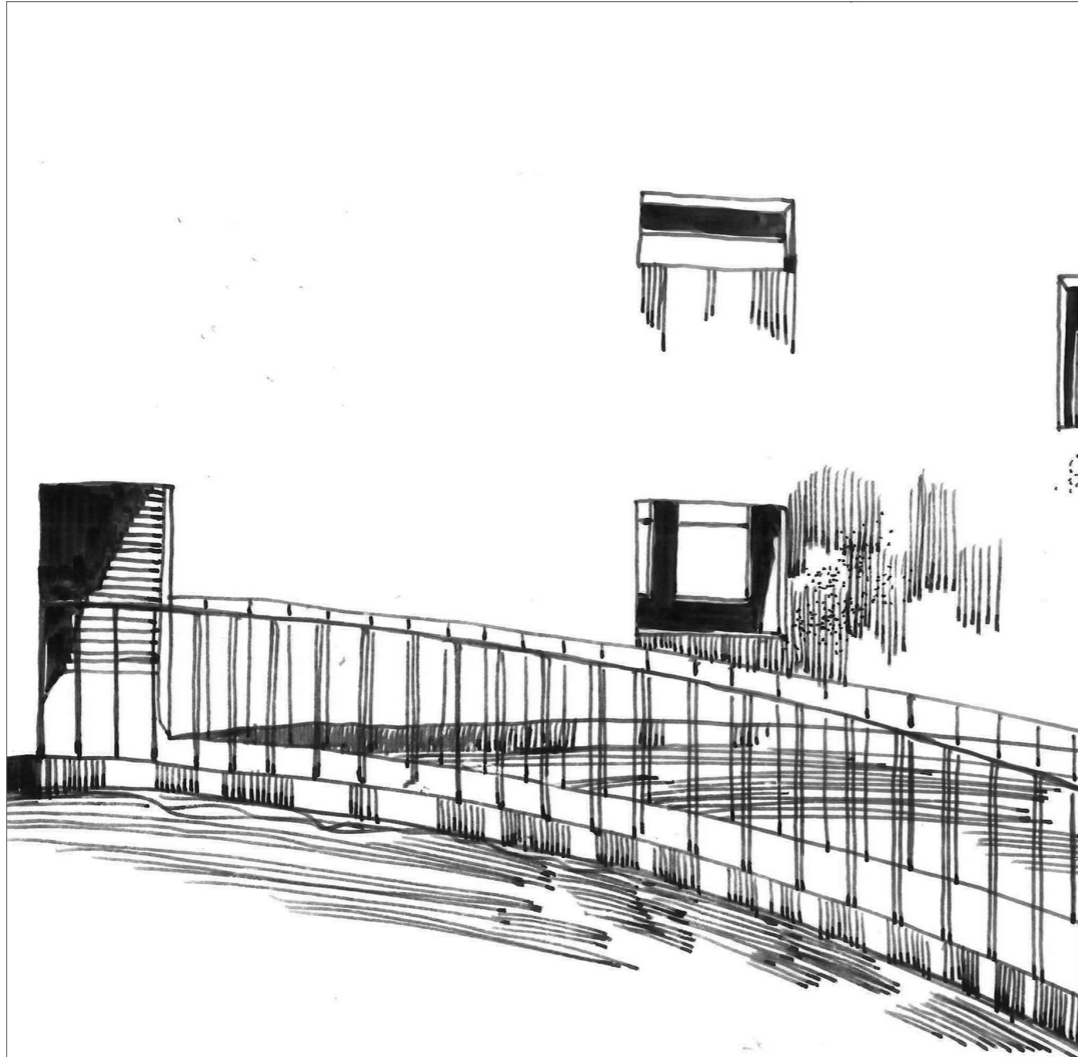
Under the bridge



Courtyard



Courtyard stair



In side the water tank

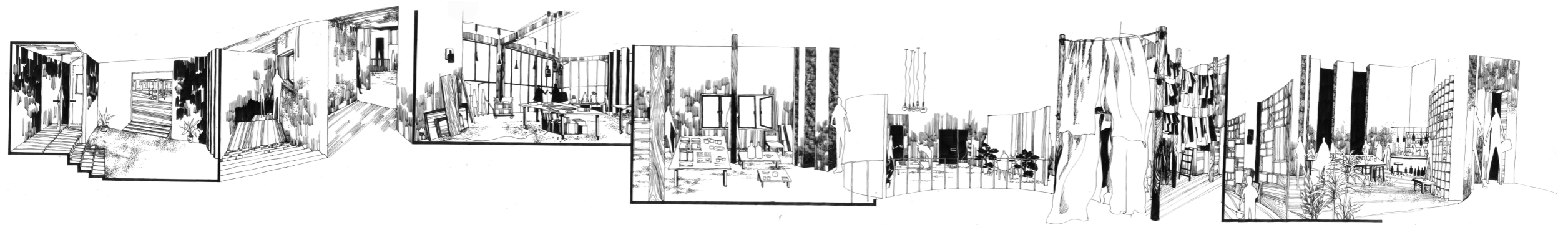


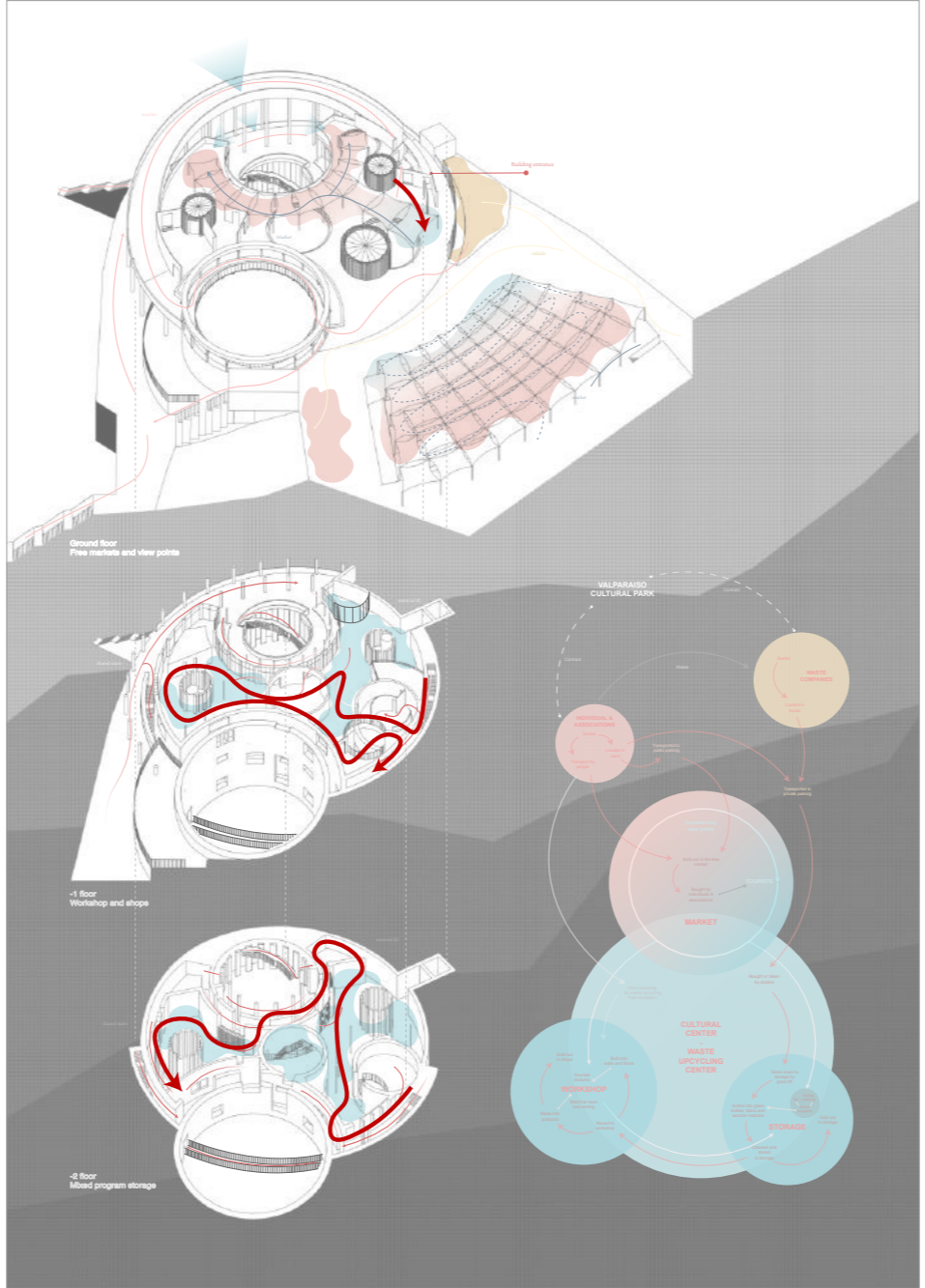


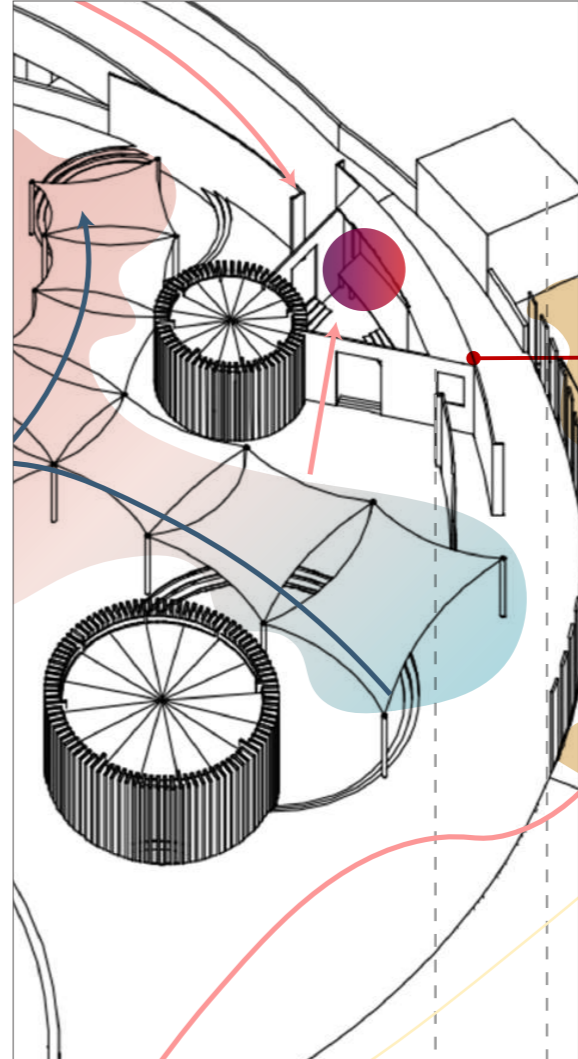
zoe  
2018.7.8

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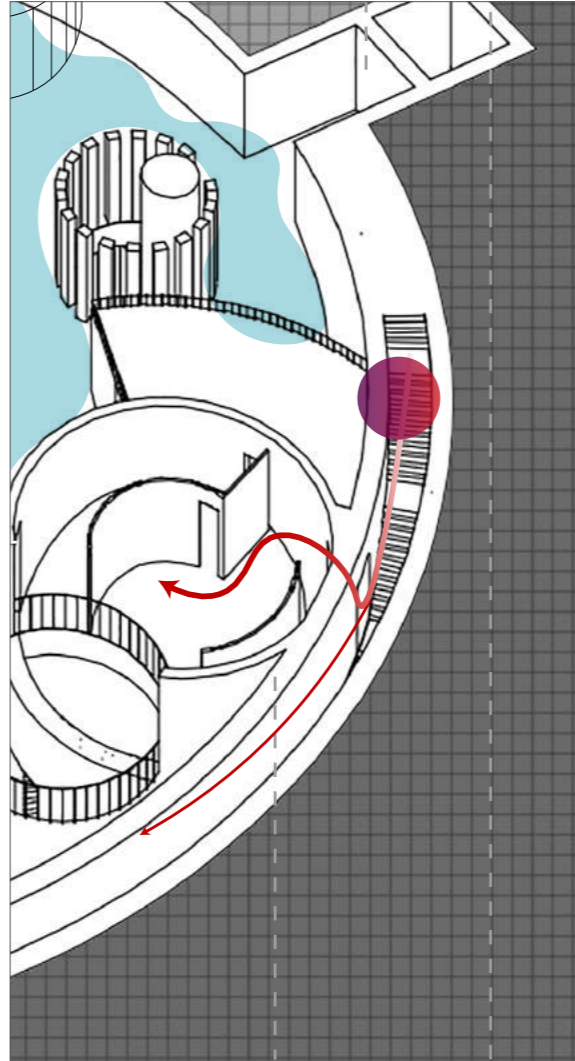
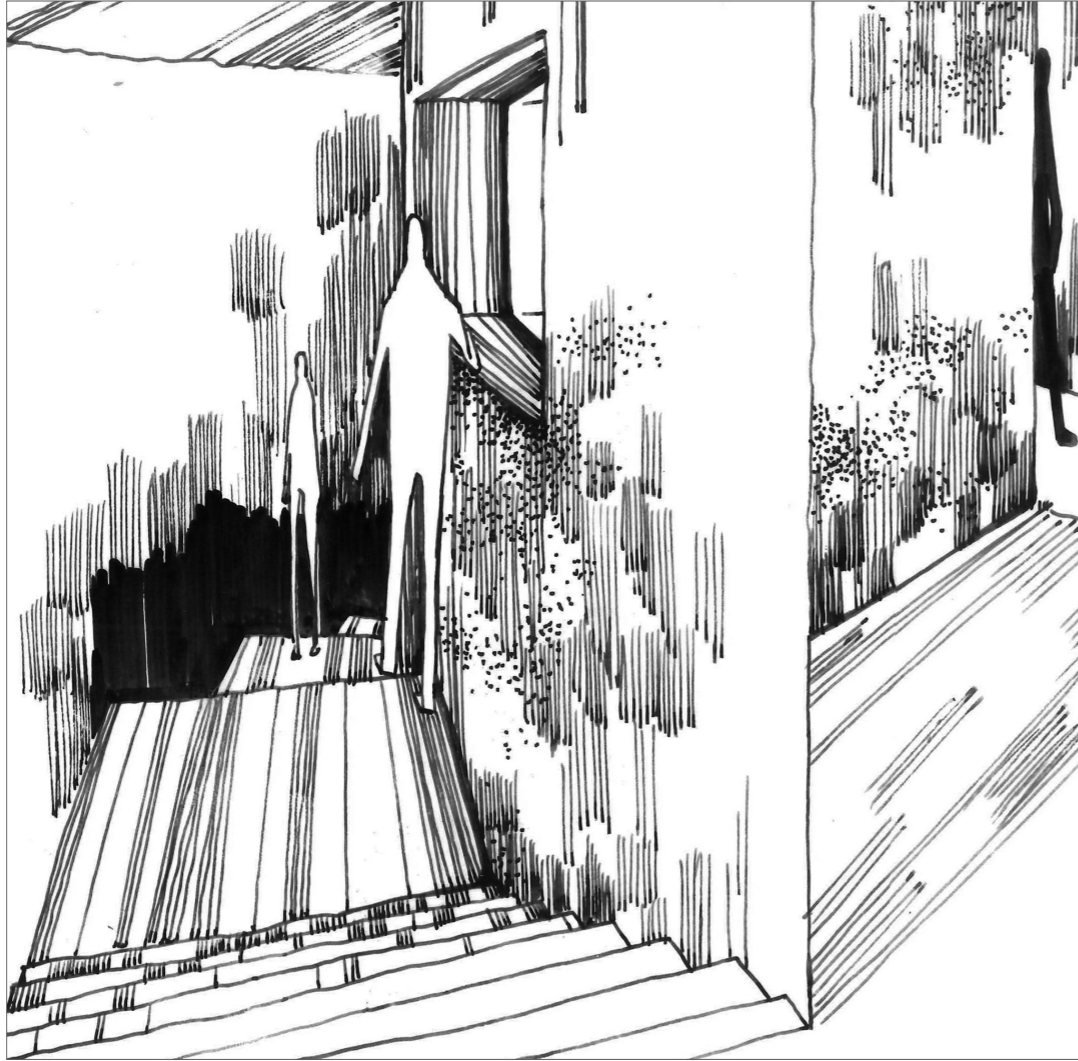
Internal circulation



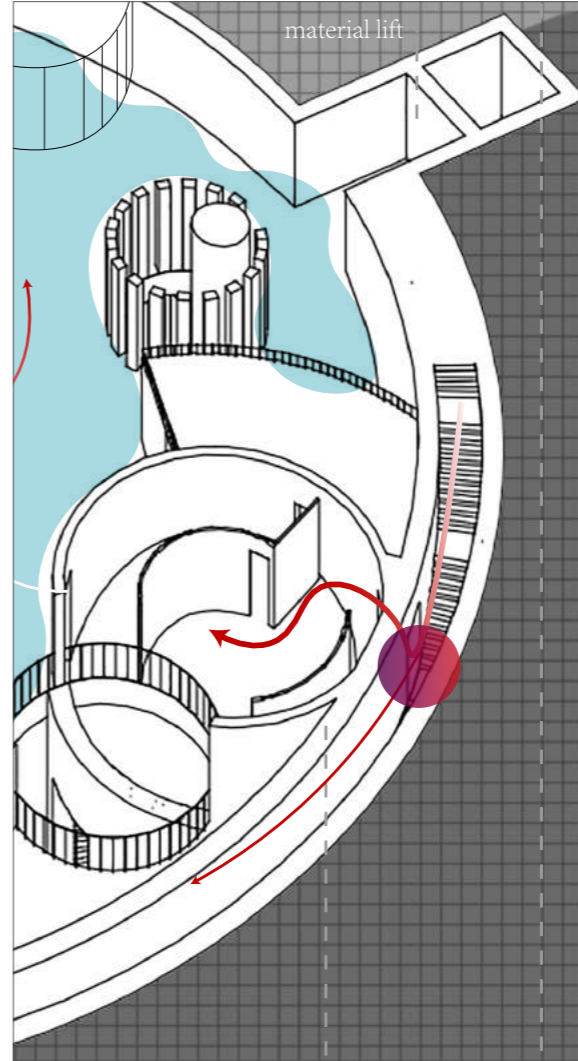
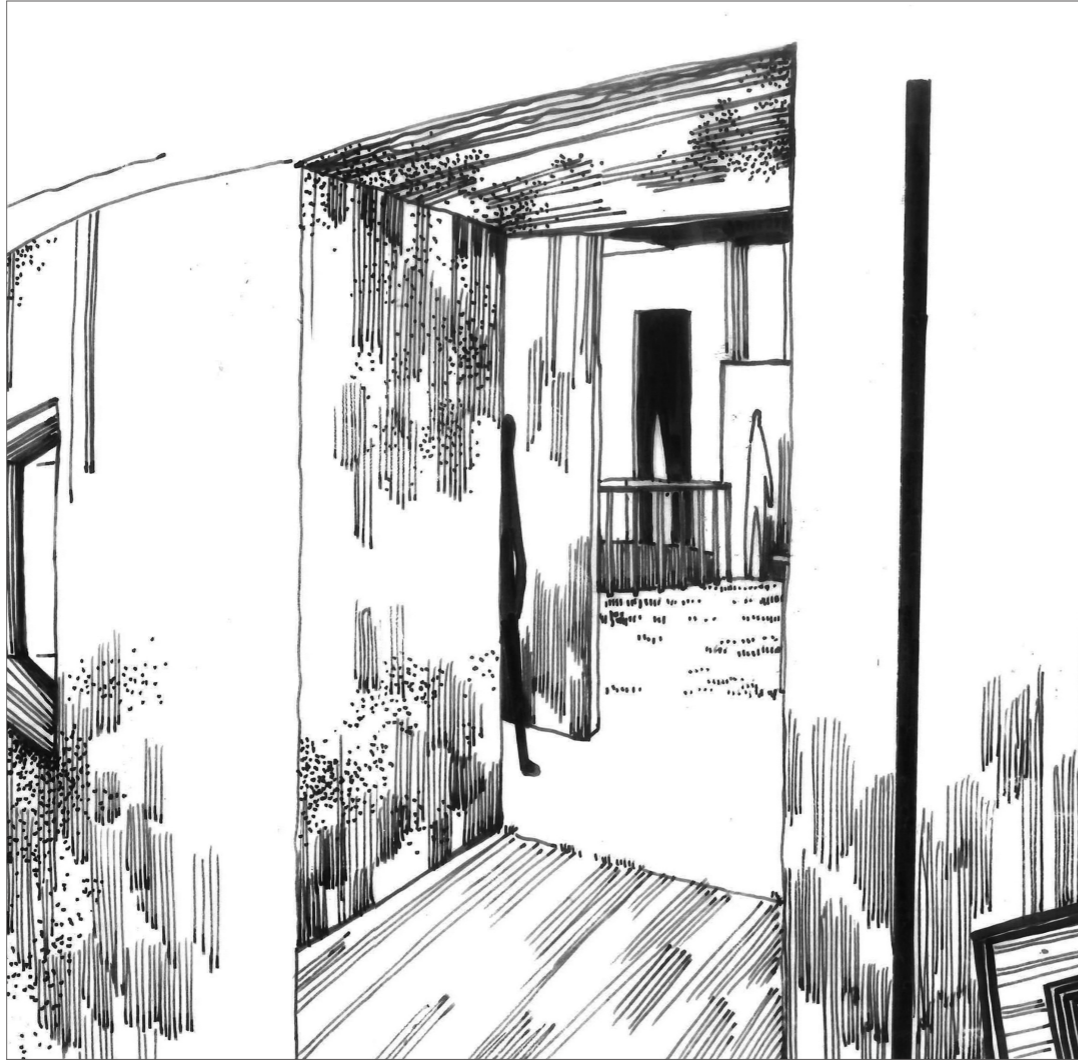




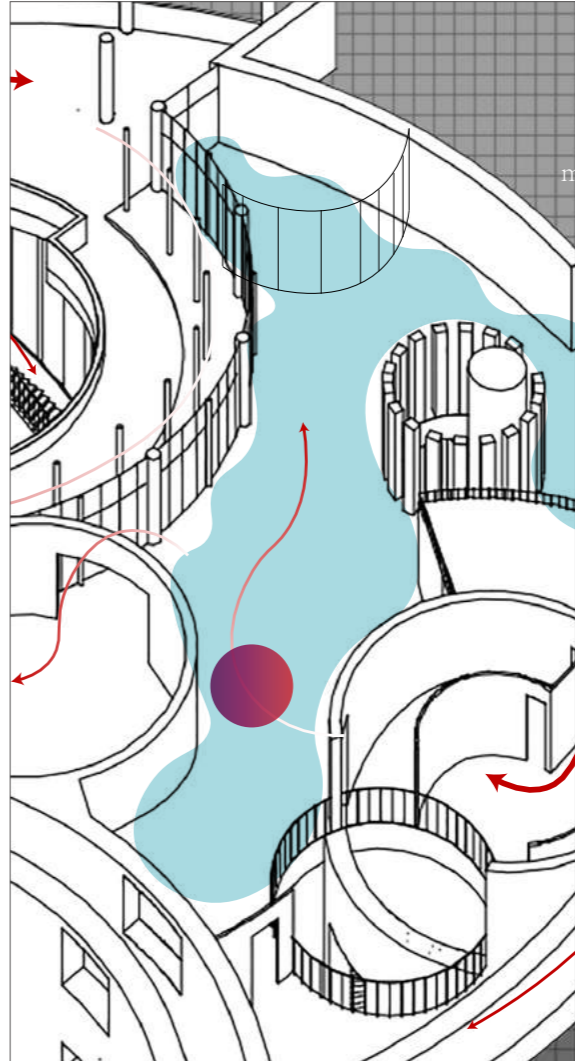
Entrance



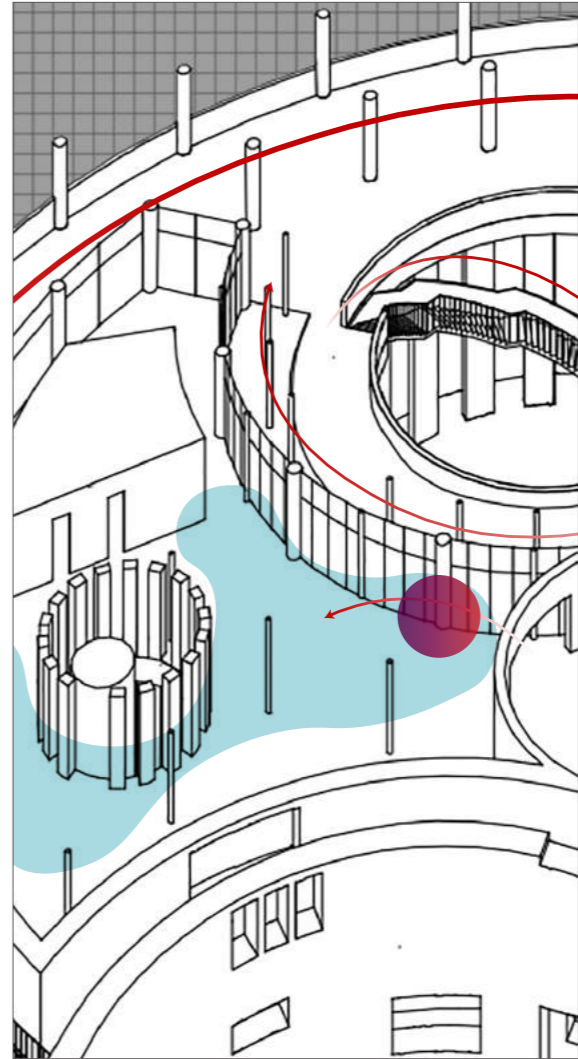
Internal stair case



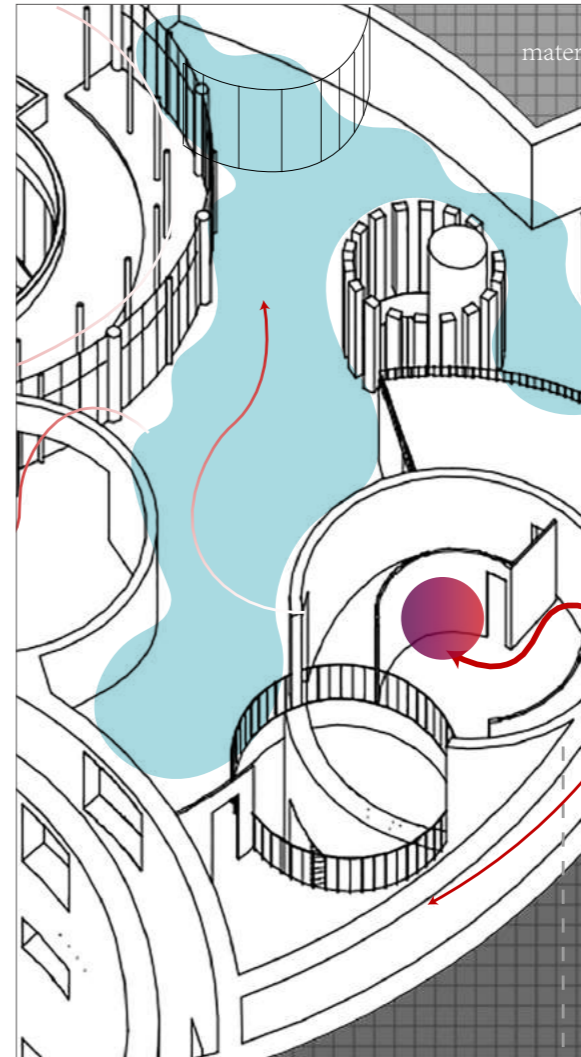
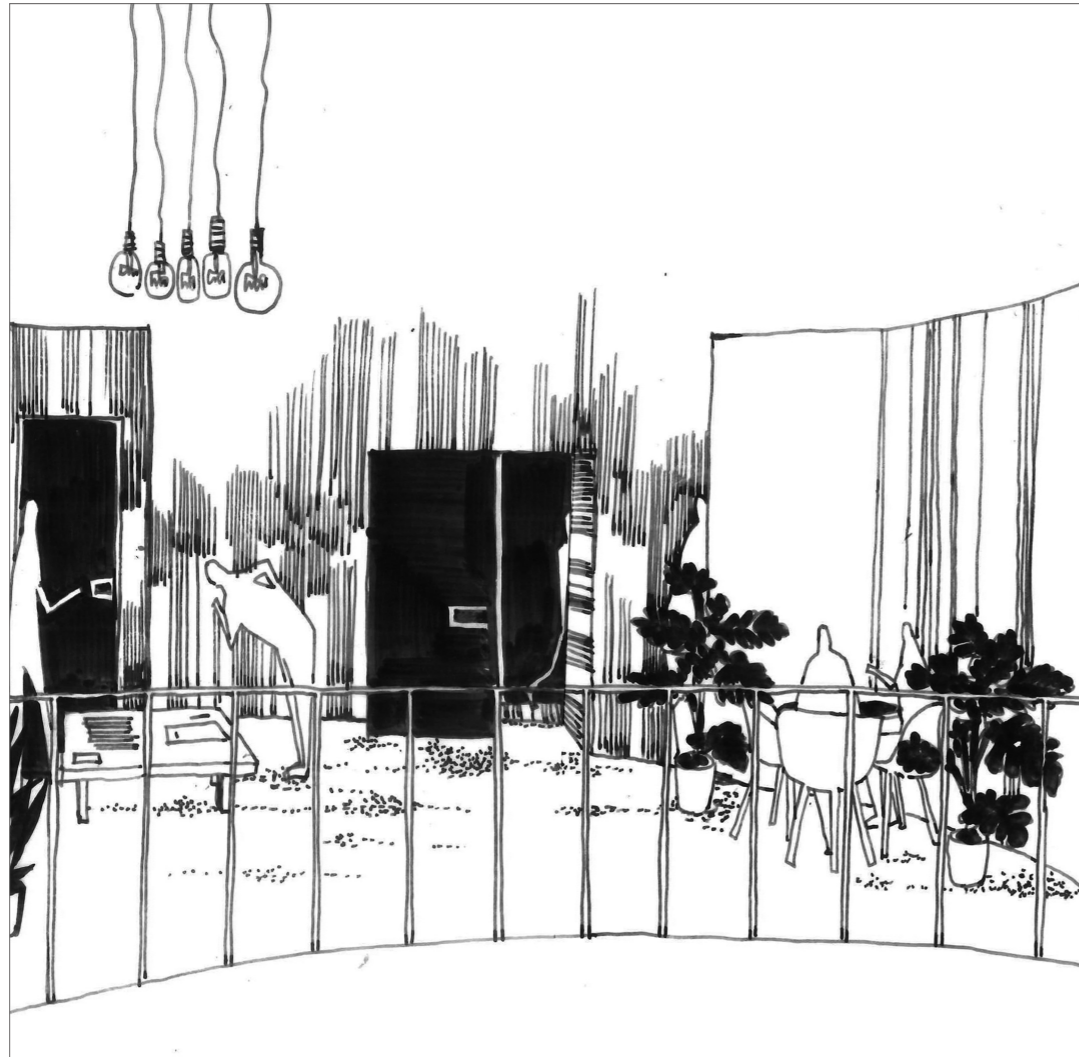
Reception



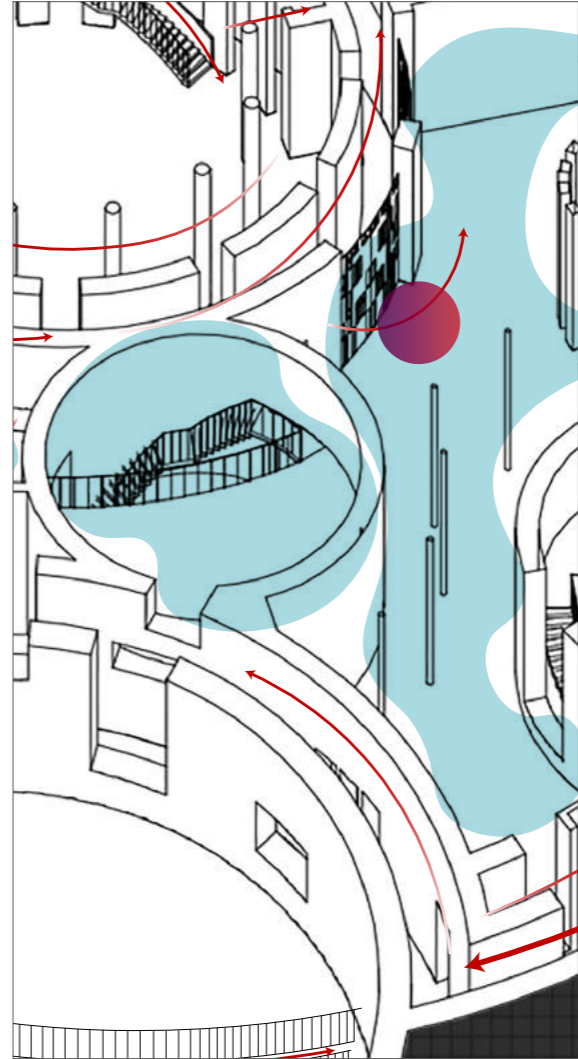
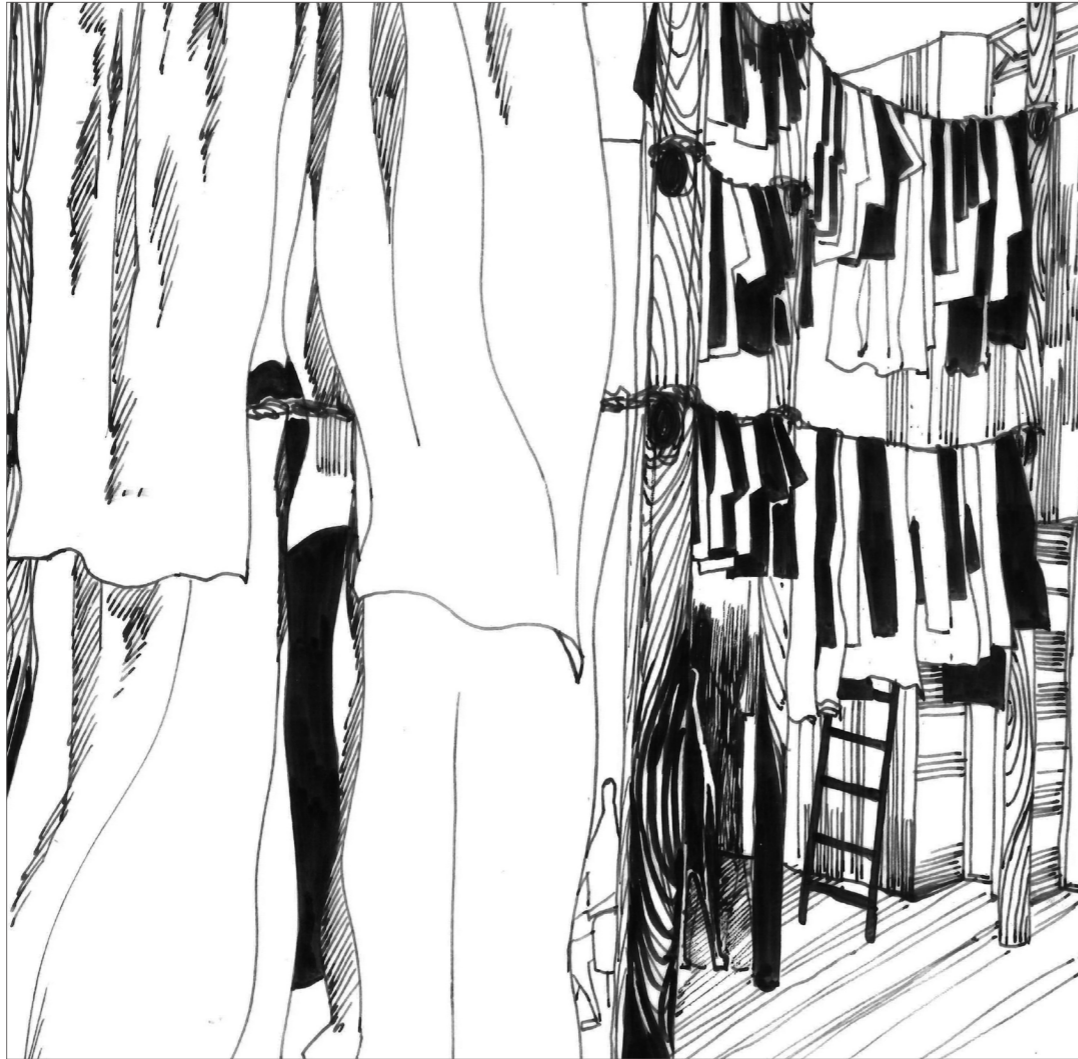
Workshop



Internal shops



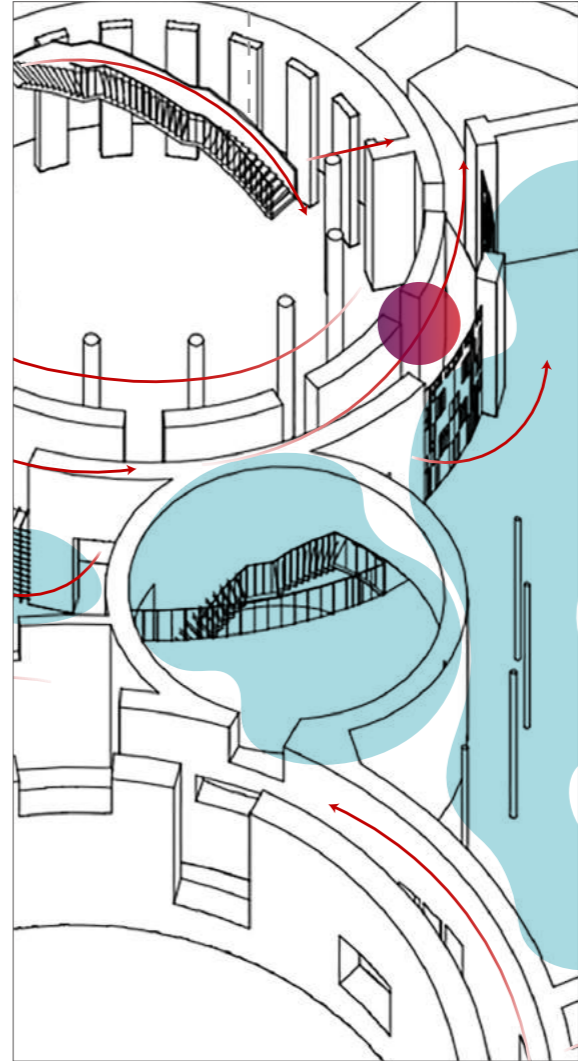
Reception view



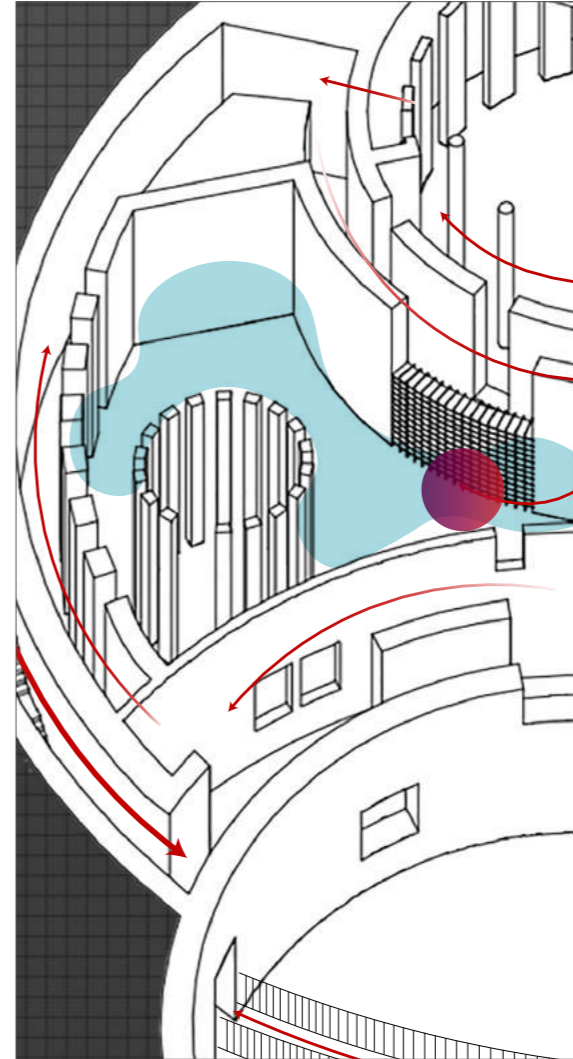
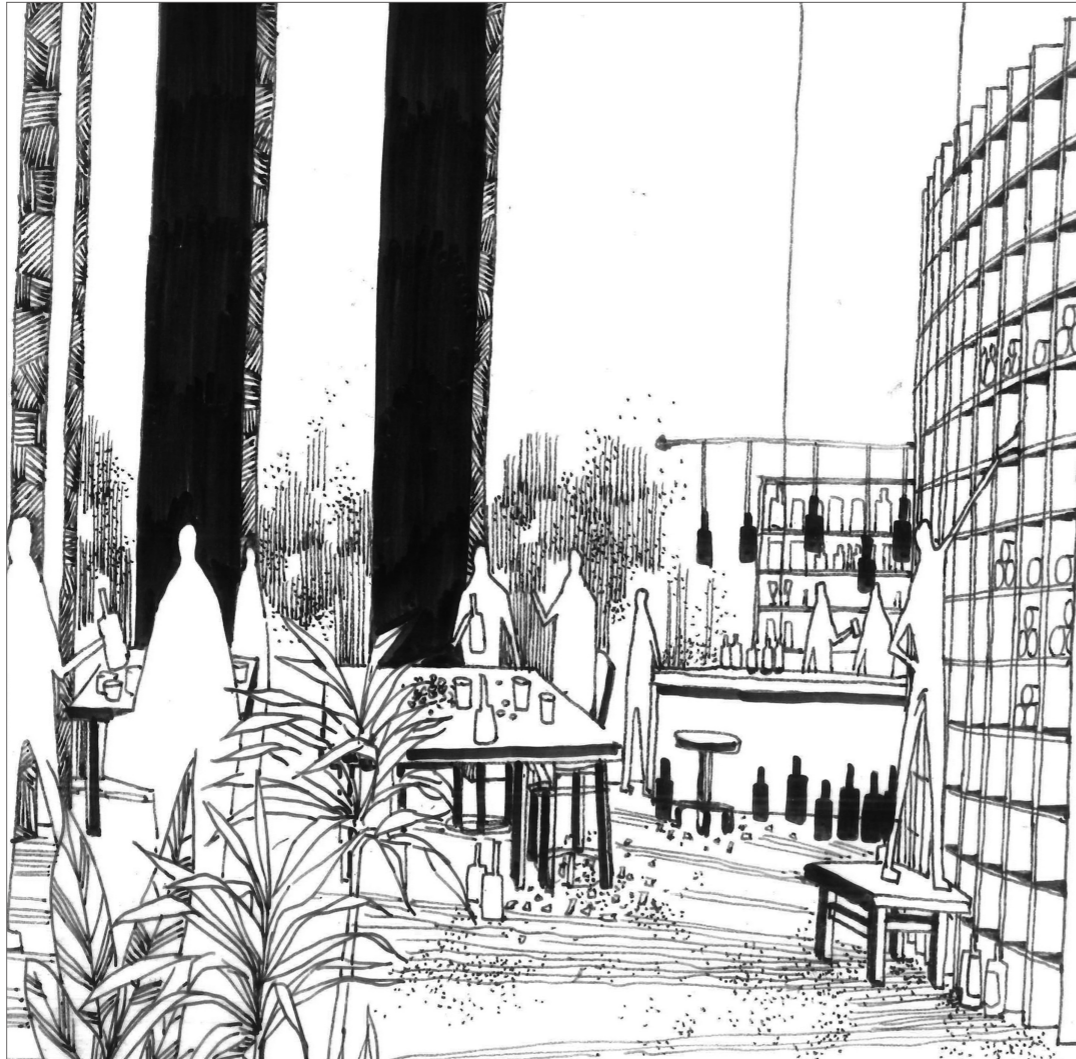
Fabric storage and clothes collecting



Pasaje Bavestrello



Wooden material storage and flexible walls



Glass bottle storage and bar

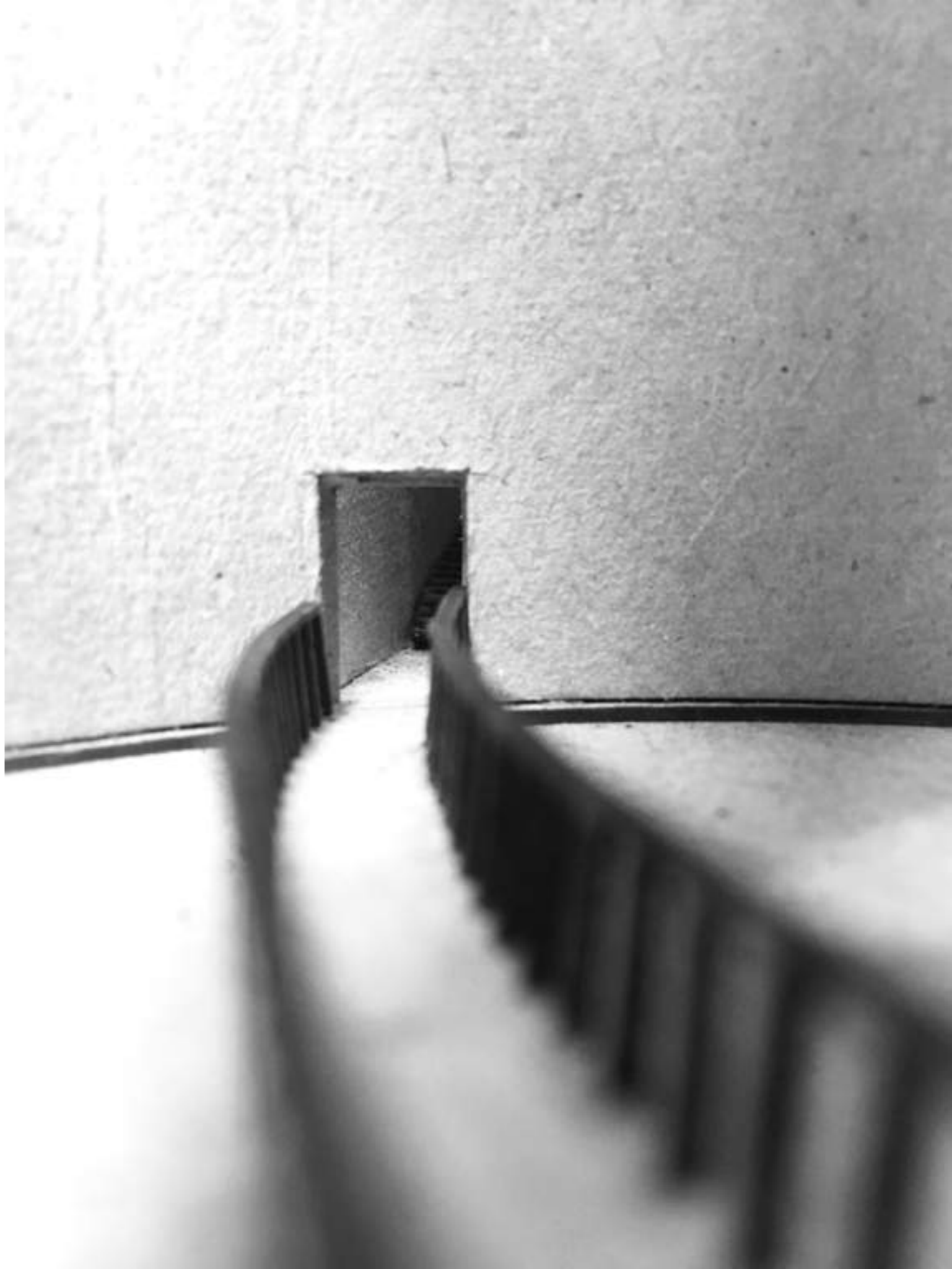


200  
1918.4.19



EDC.  
2012.6.25









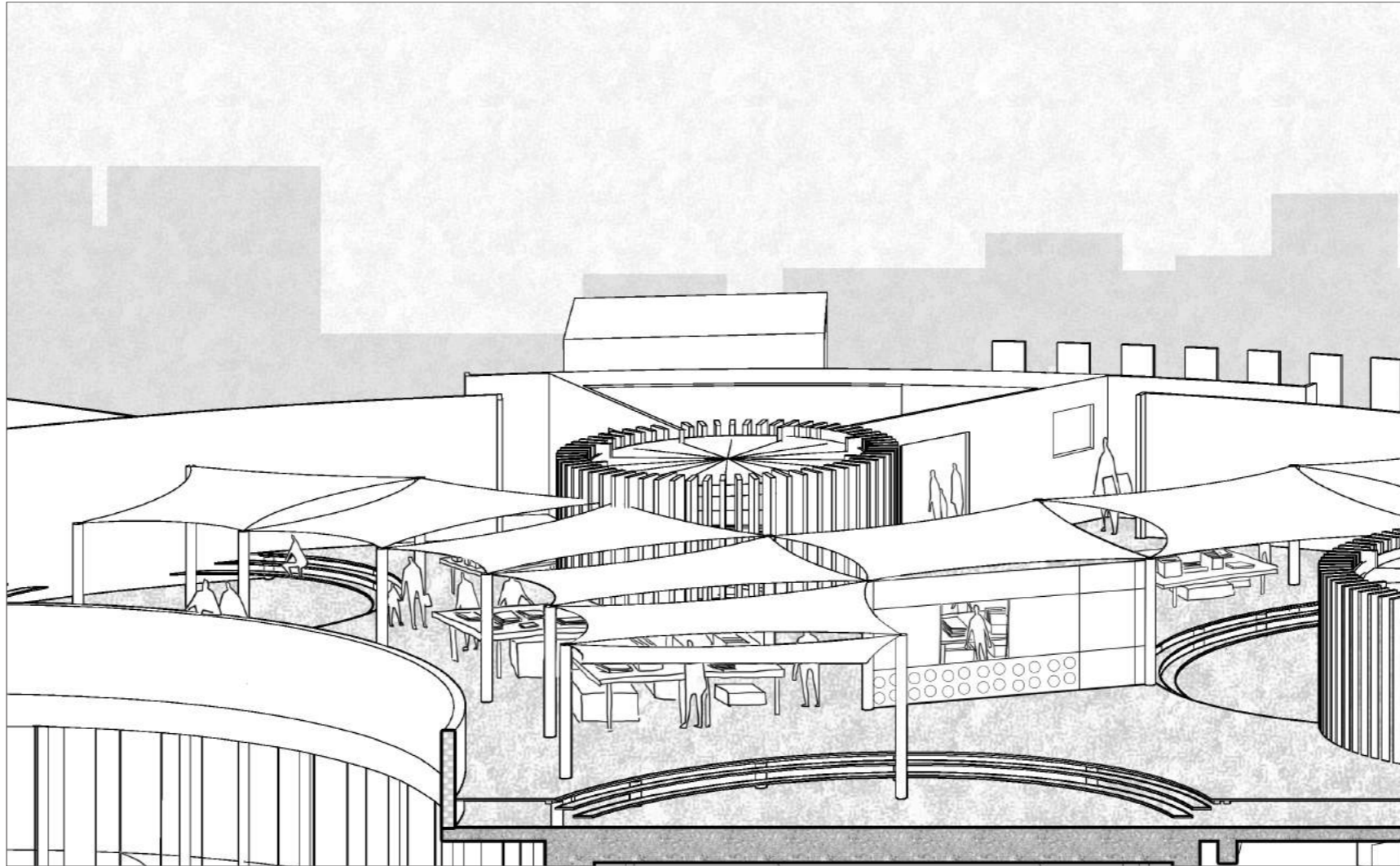


# Valparaíso upcycling market

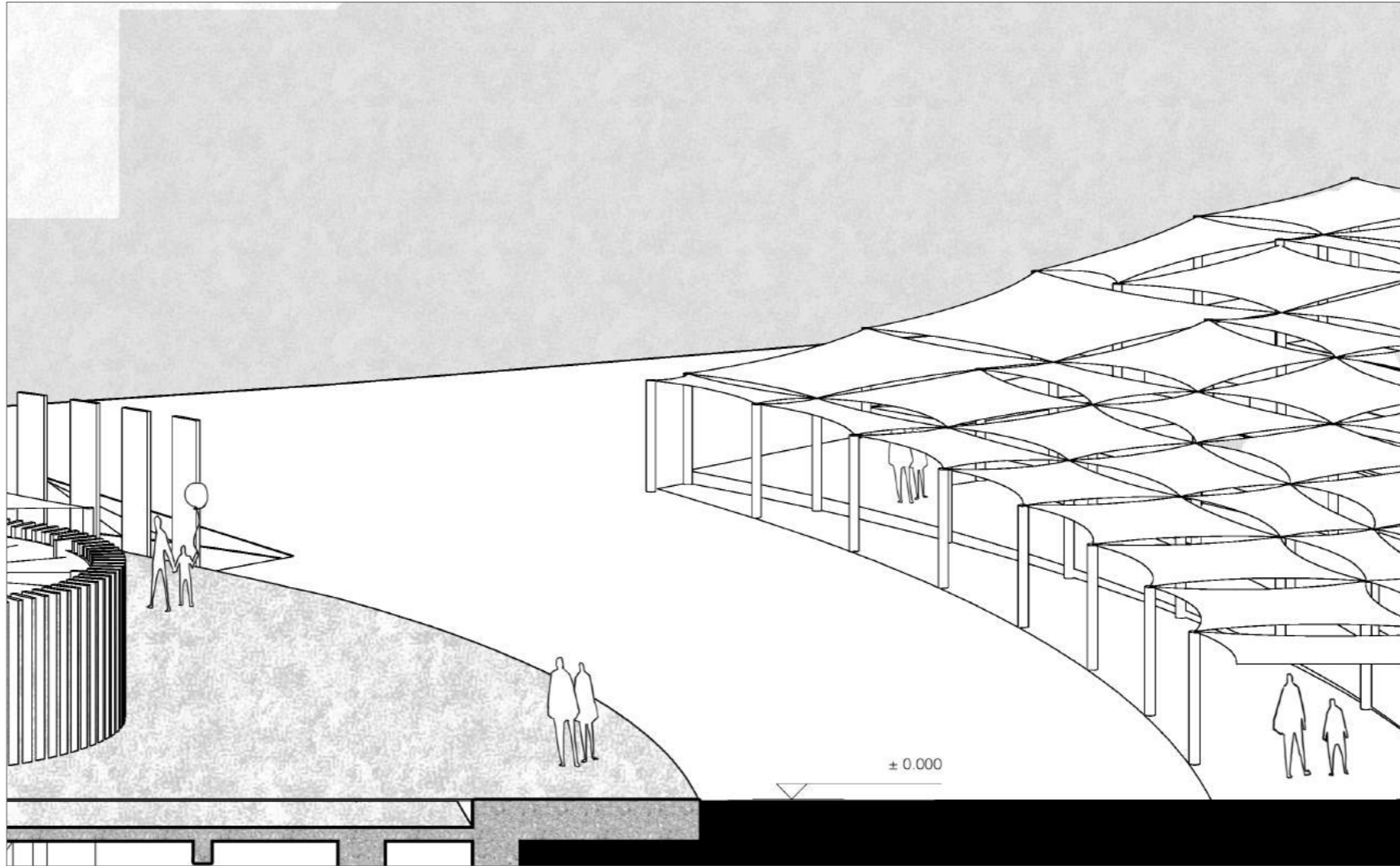
Sections



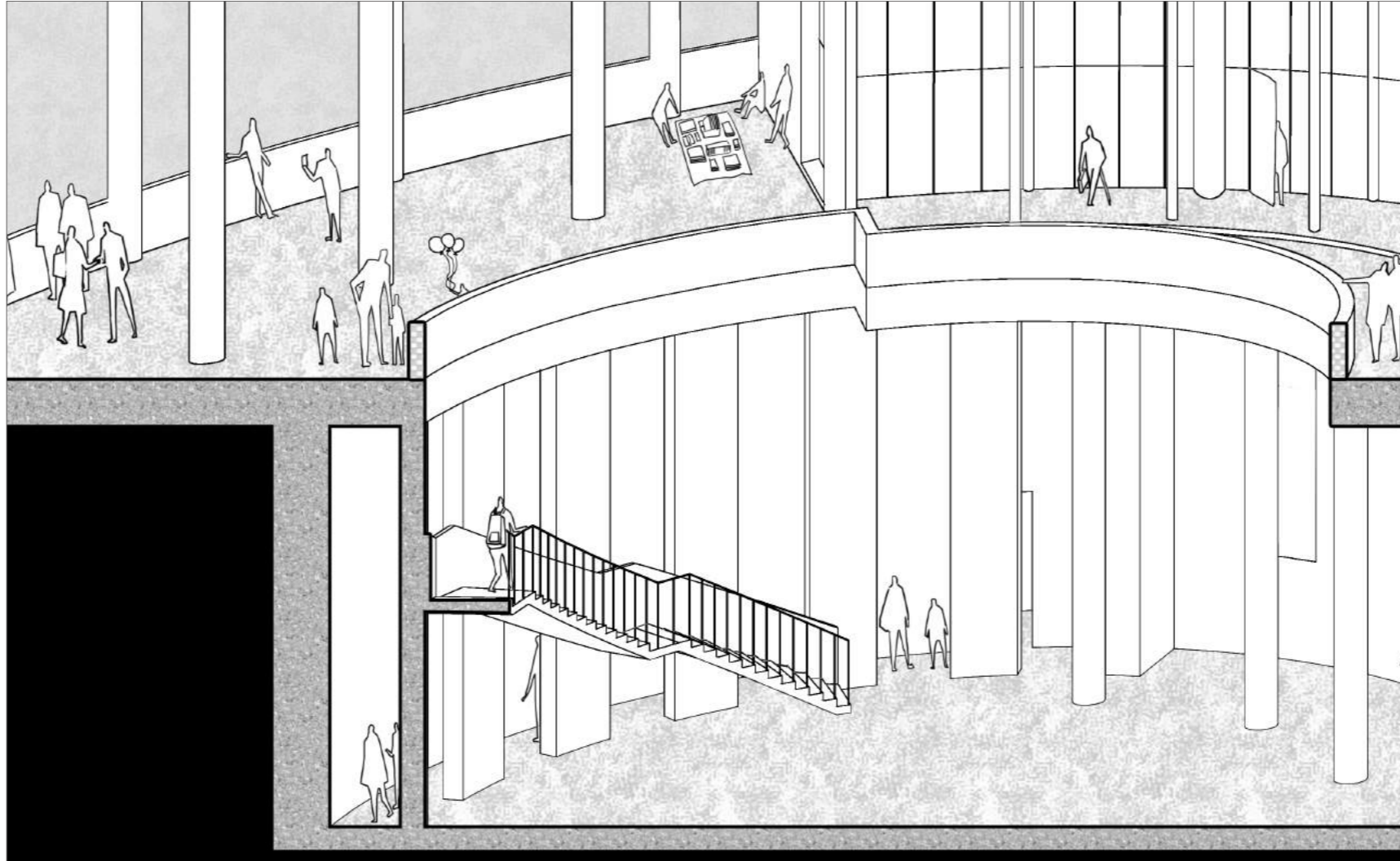
Perspective section 01



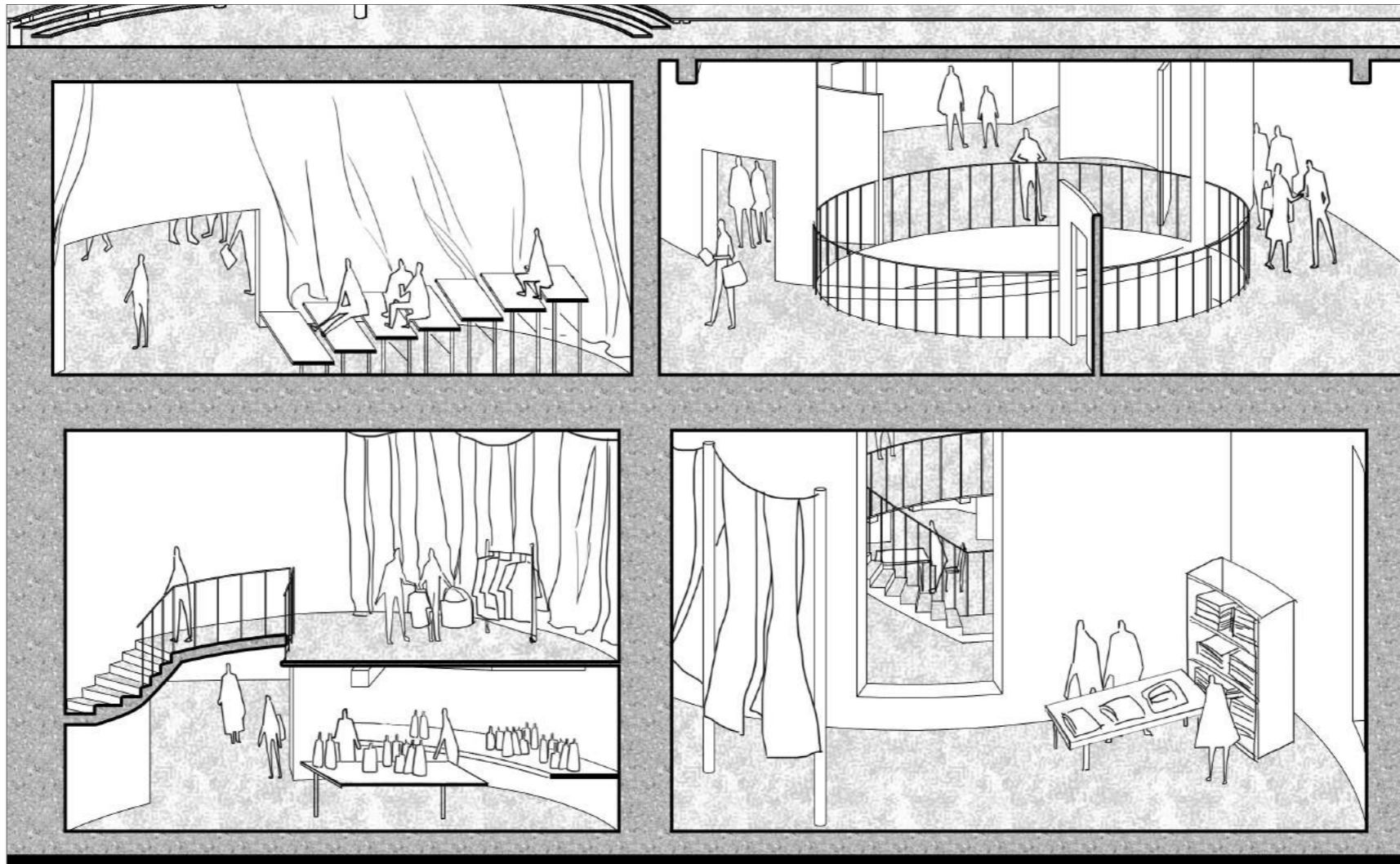
The free market



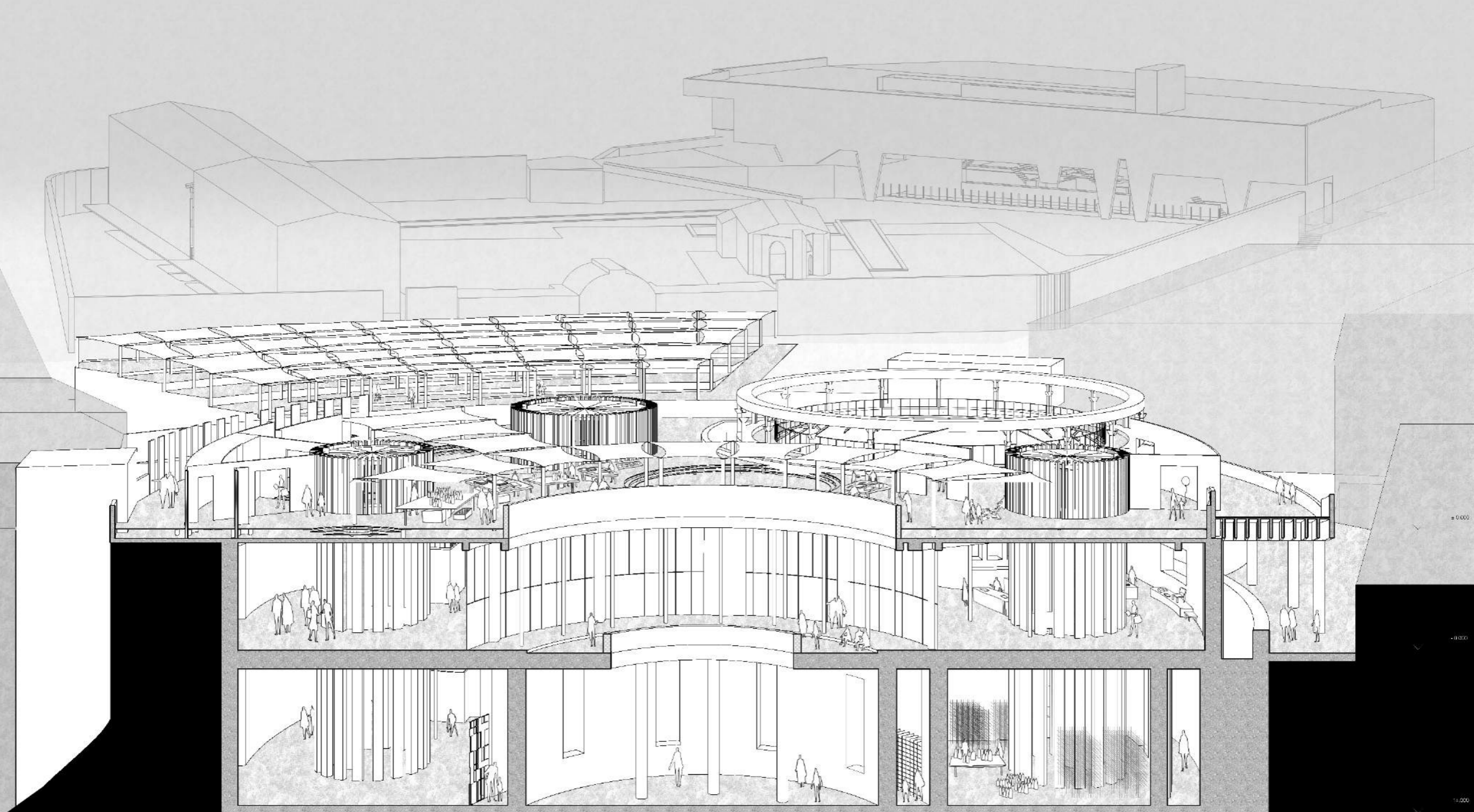
The road with market on each side



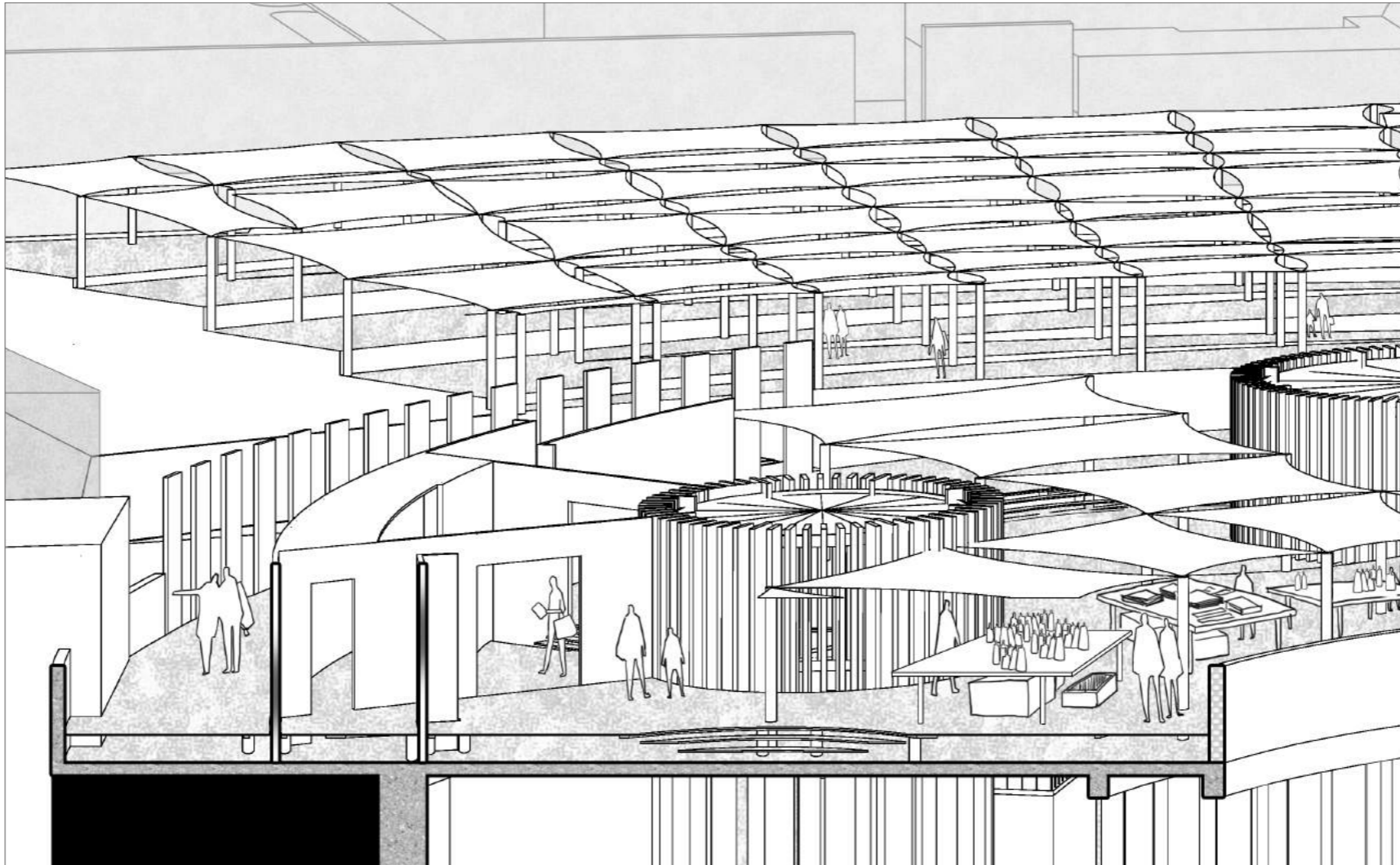
Platform and the courtyard



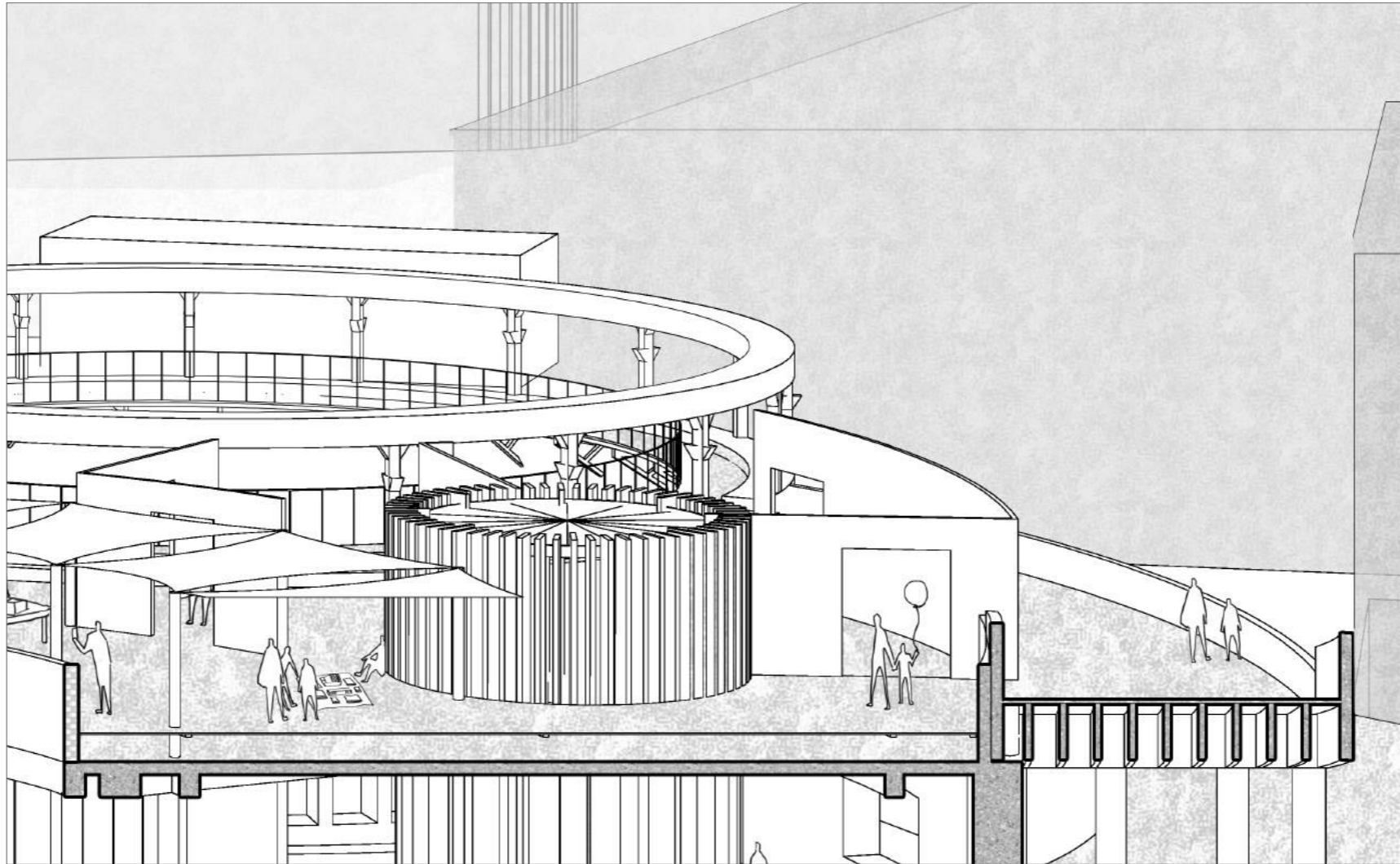
Activities in the building



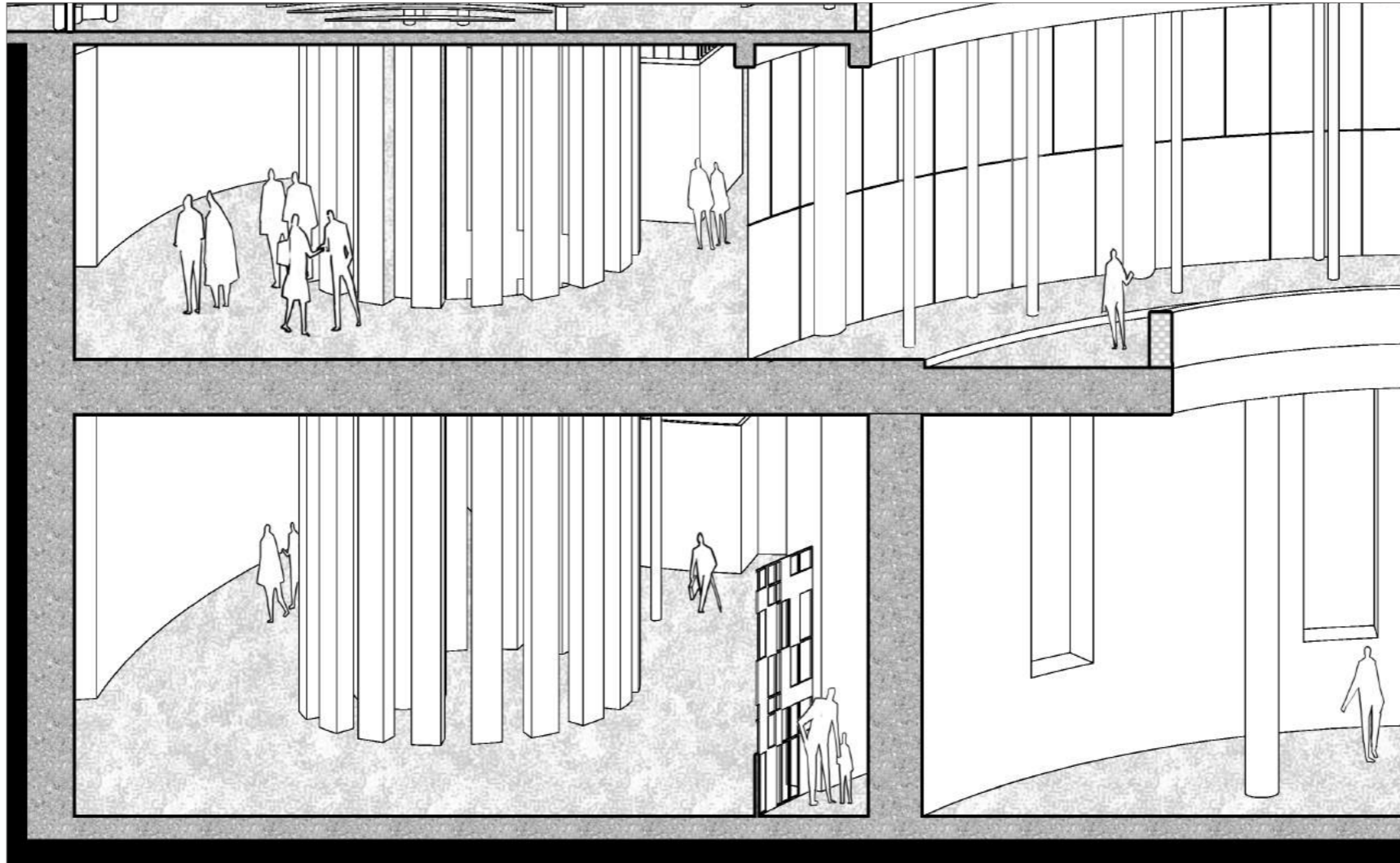
Perspective section 02



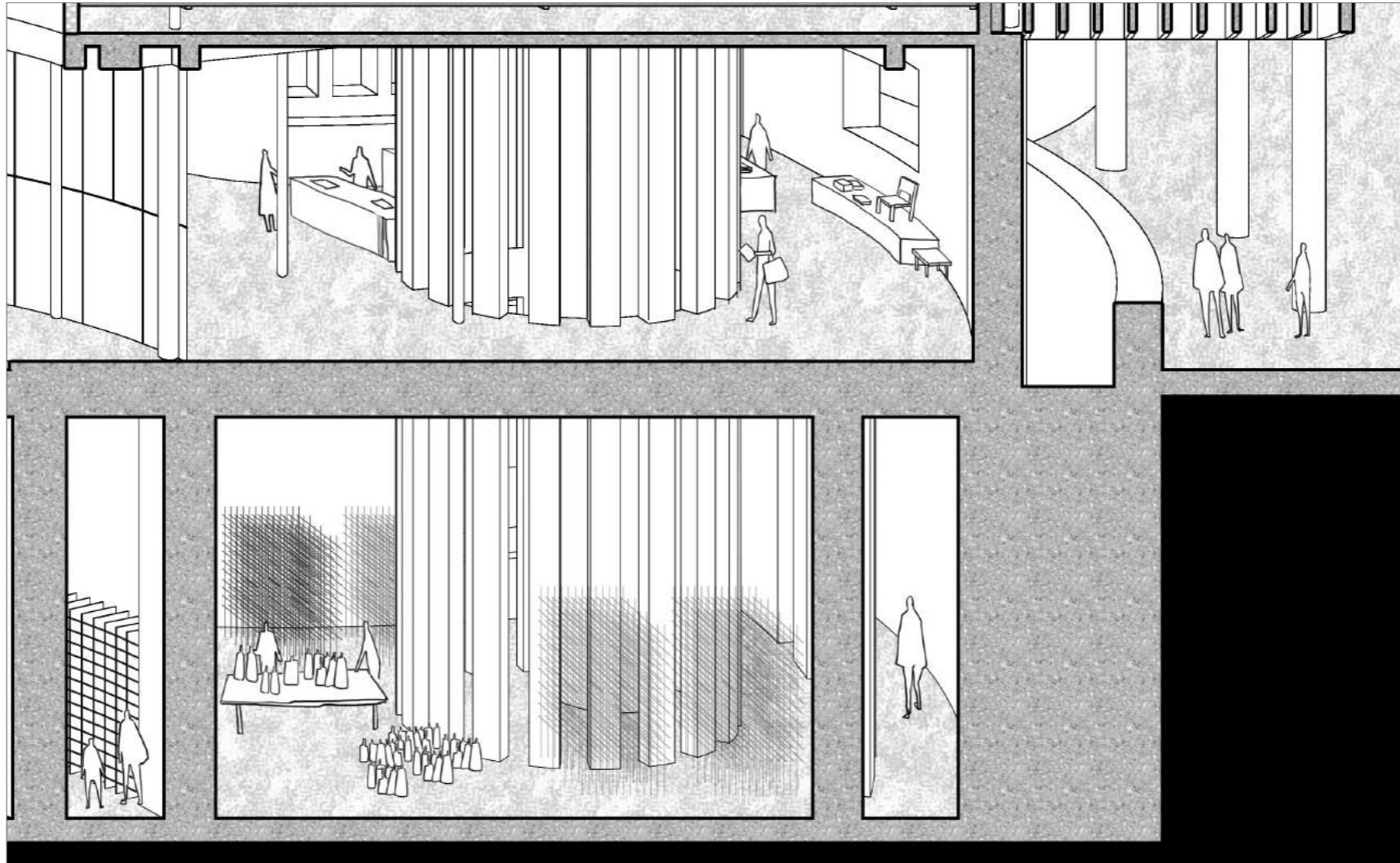
The free market



Entrance of bridge with the water tank



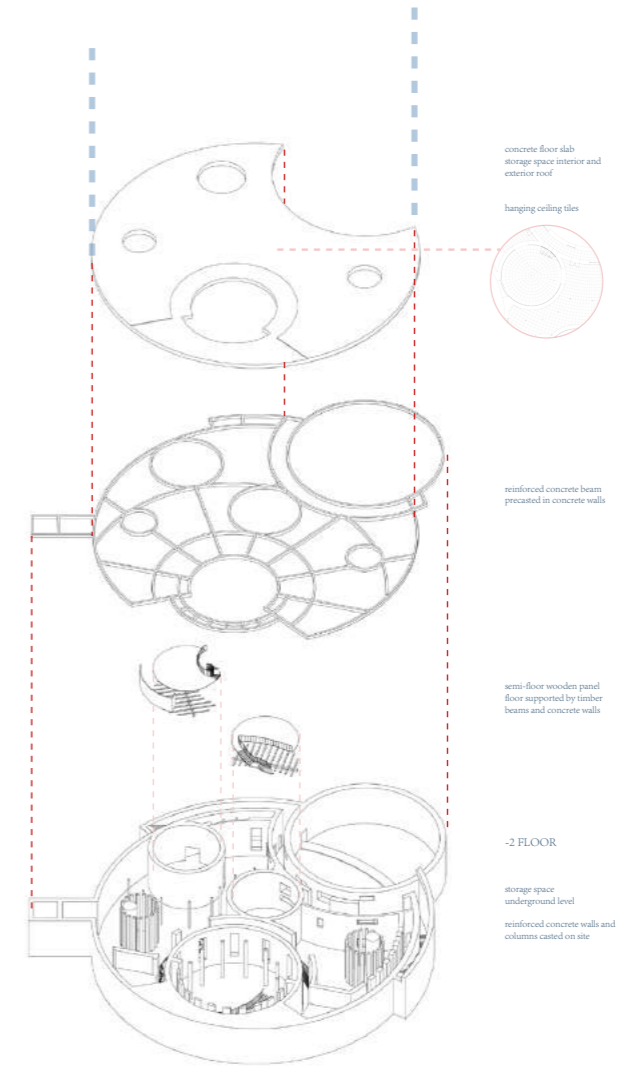
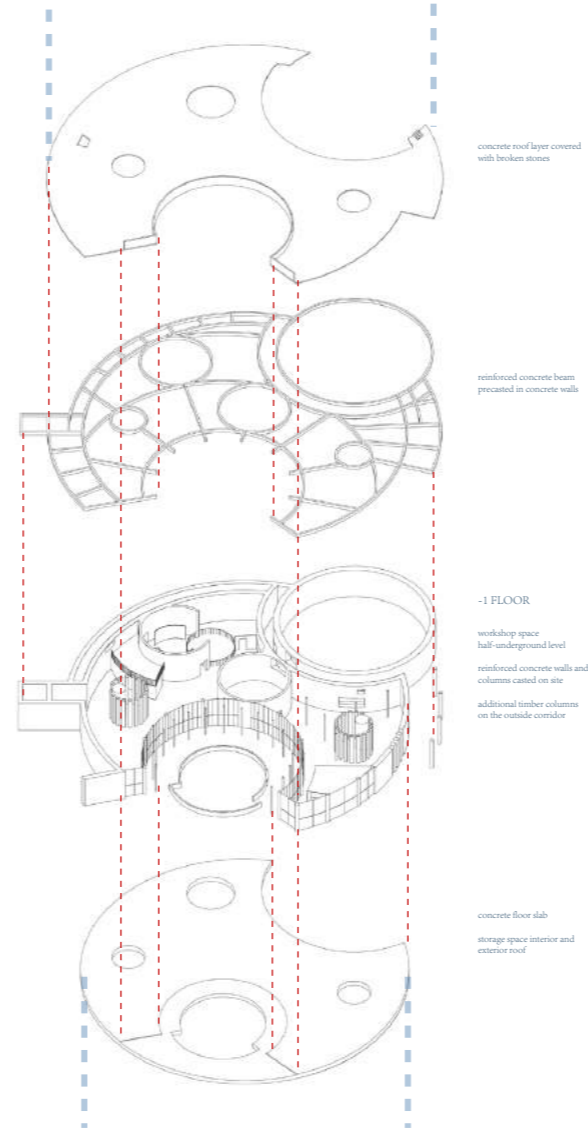
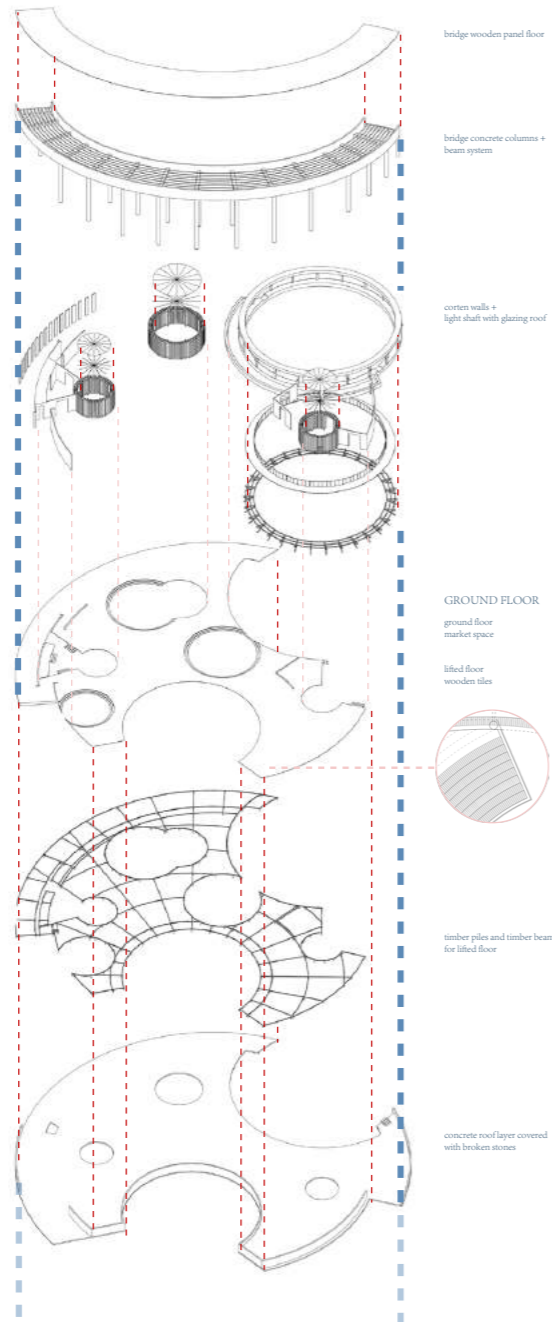
The light wells

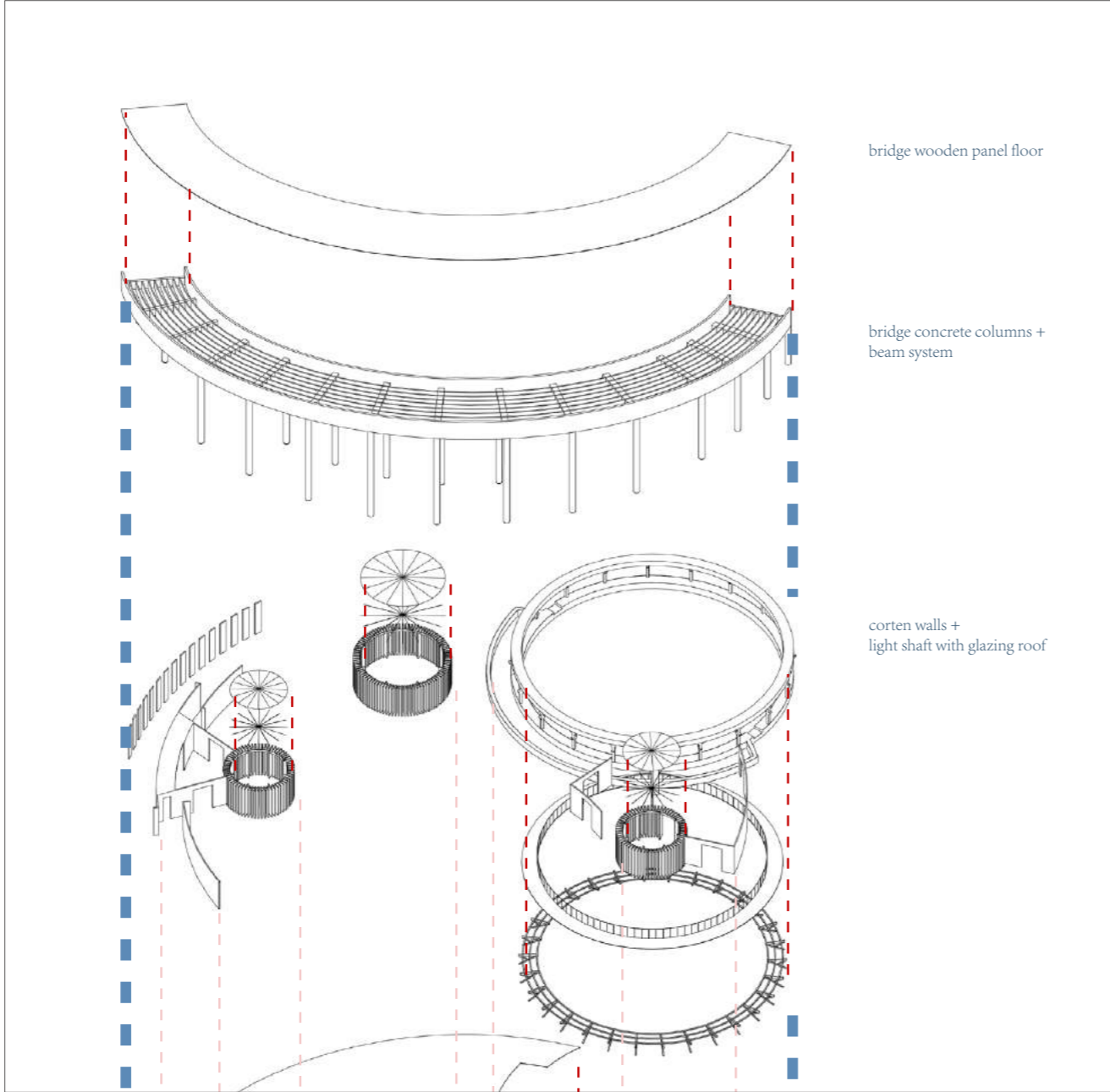


The shop and storage

# **Valparaíso upcycling market**

Structure and materials



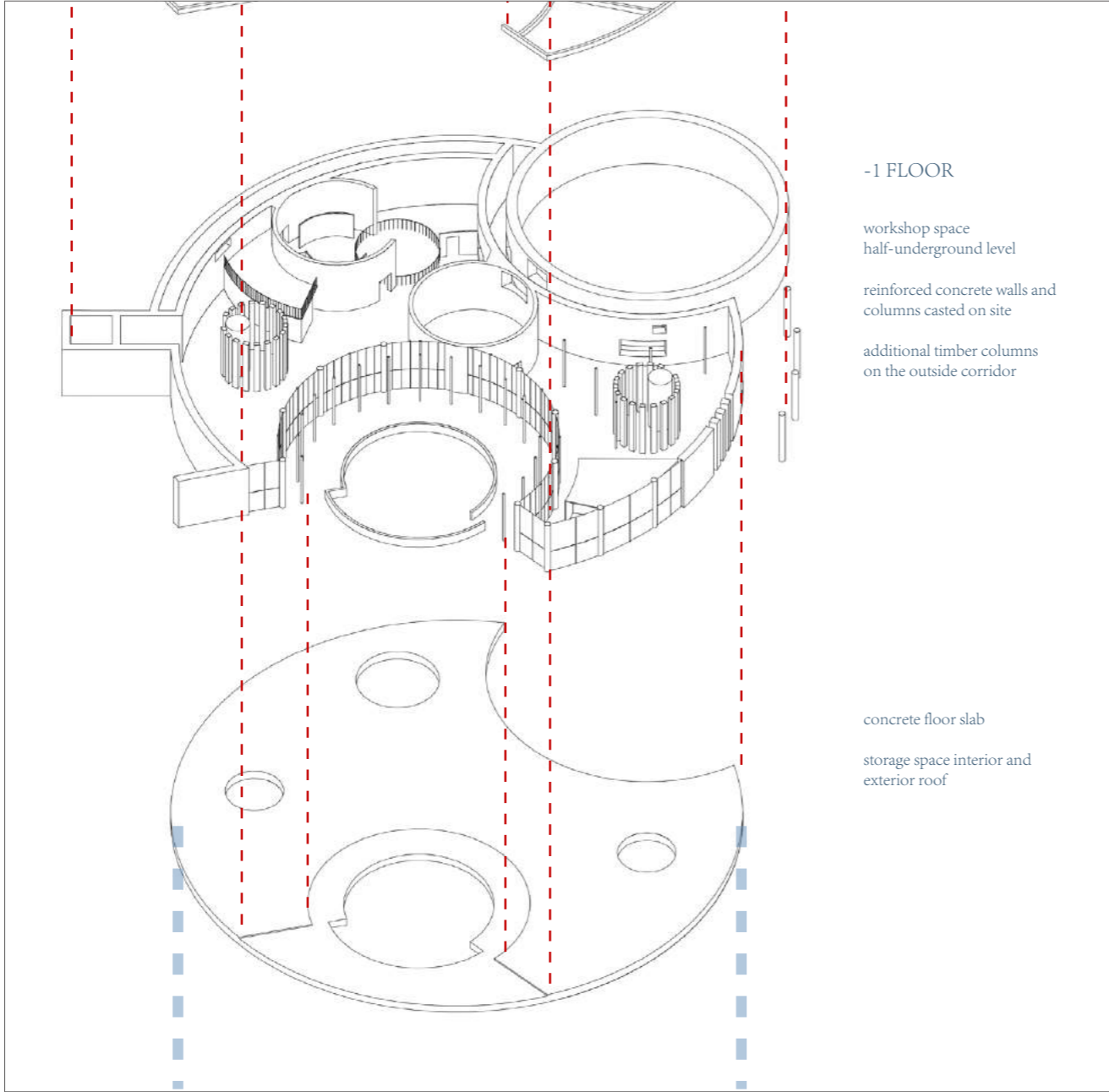


bridge wooden panel floor

bridge concrete columns + beam system

corten walls + light shaft with glazing roof





-1 FLOOR

workshop space  
half-underground level

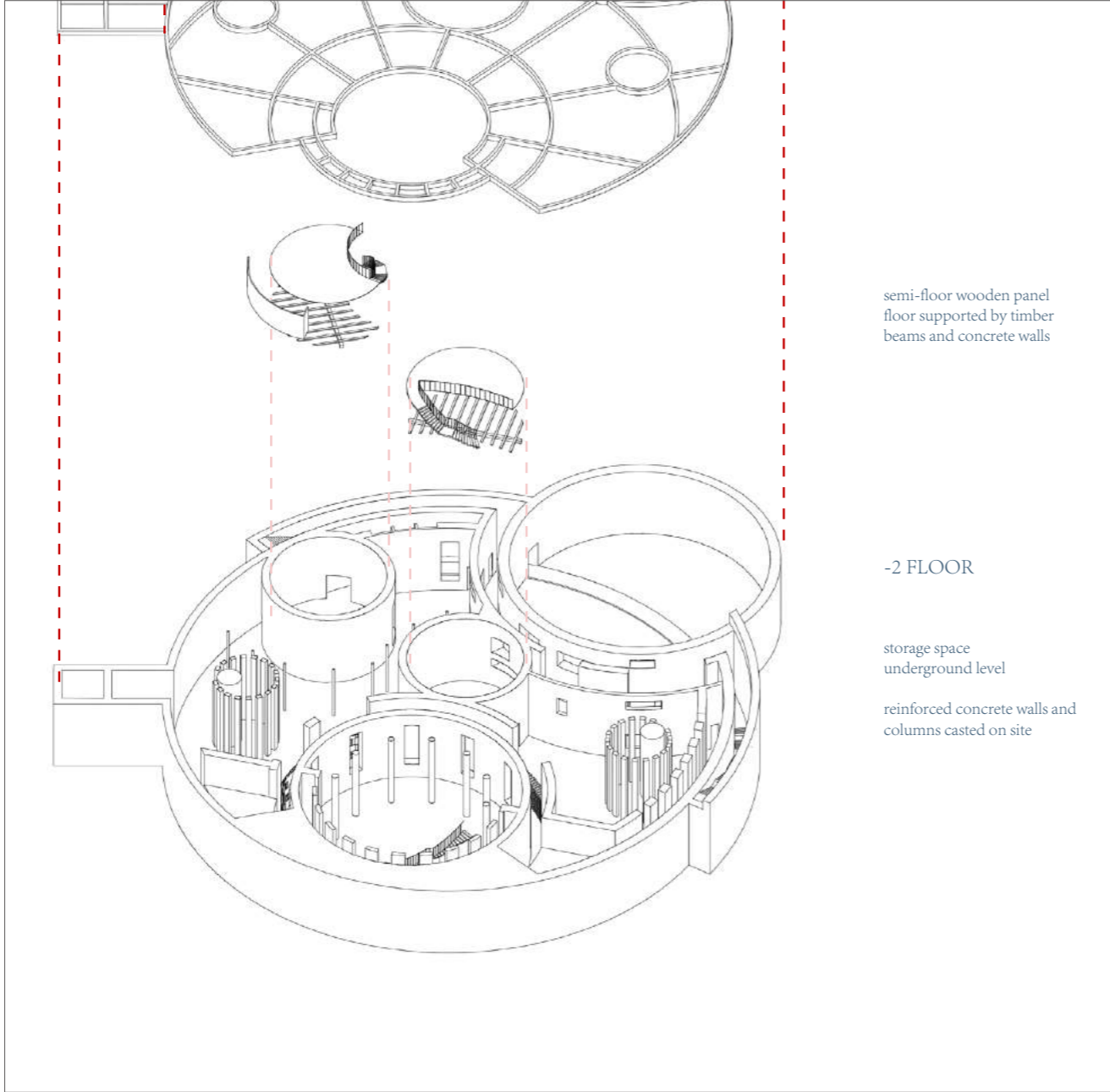
reinforced concrete walls and  
columns casted on site

additional timber columns  
on the outside corridor

concrete floor slab

storage space interior and  
exterior roof





semi-floor wooden panel  
floor supported by timber  
beams and concrete walls

-2 FLOOR

storage space  
underground level

reinforced concrete walls and  
columns casted on site





**Concrete**  
corrupted wood casted  
cast-in-place



**Corten steel**  
doors & opening frames  
& finishing



**Wood**  
columns & tiles



**Glazing**  
light well closure  
workshop curtain wall



**Cement + glass bottles**  
flexible walls



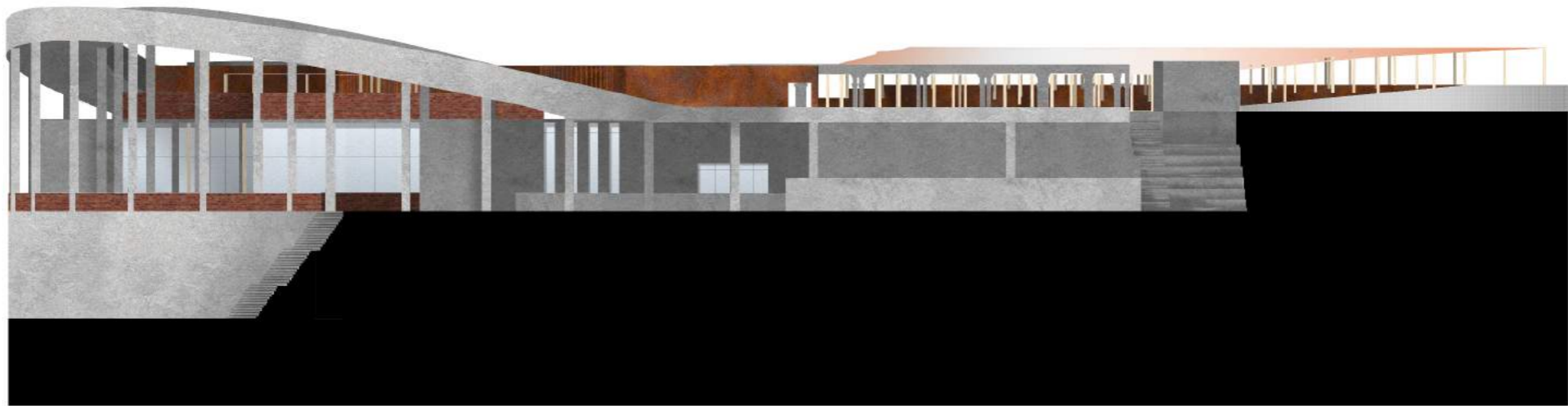
**Fabric**  
market shed



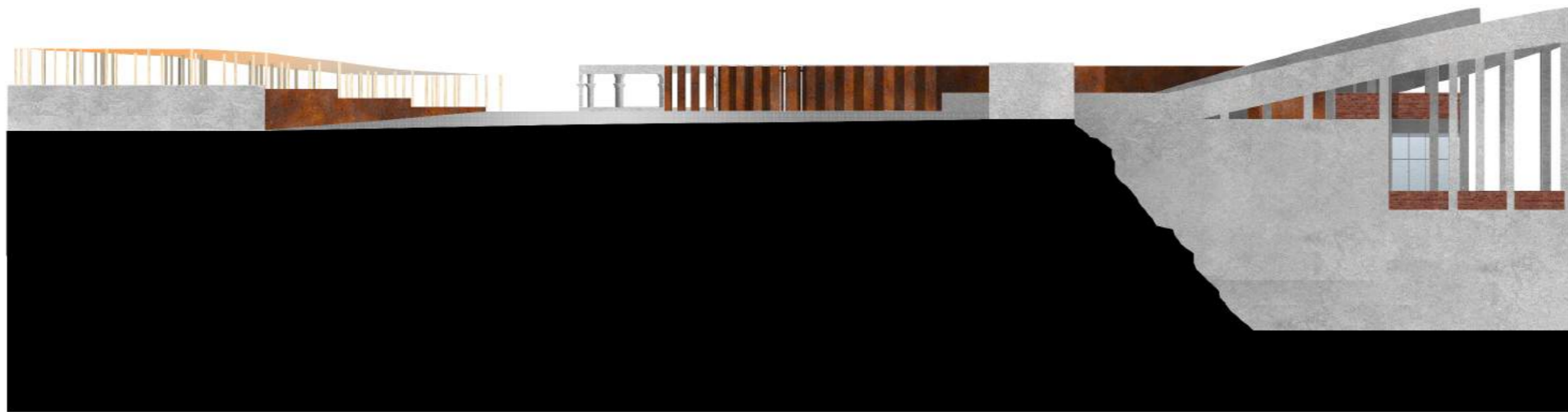
**Local techniques**



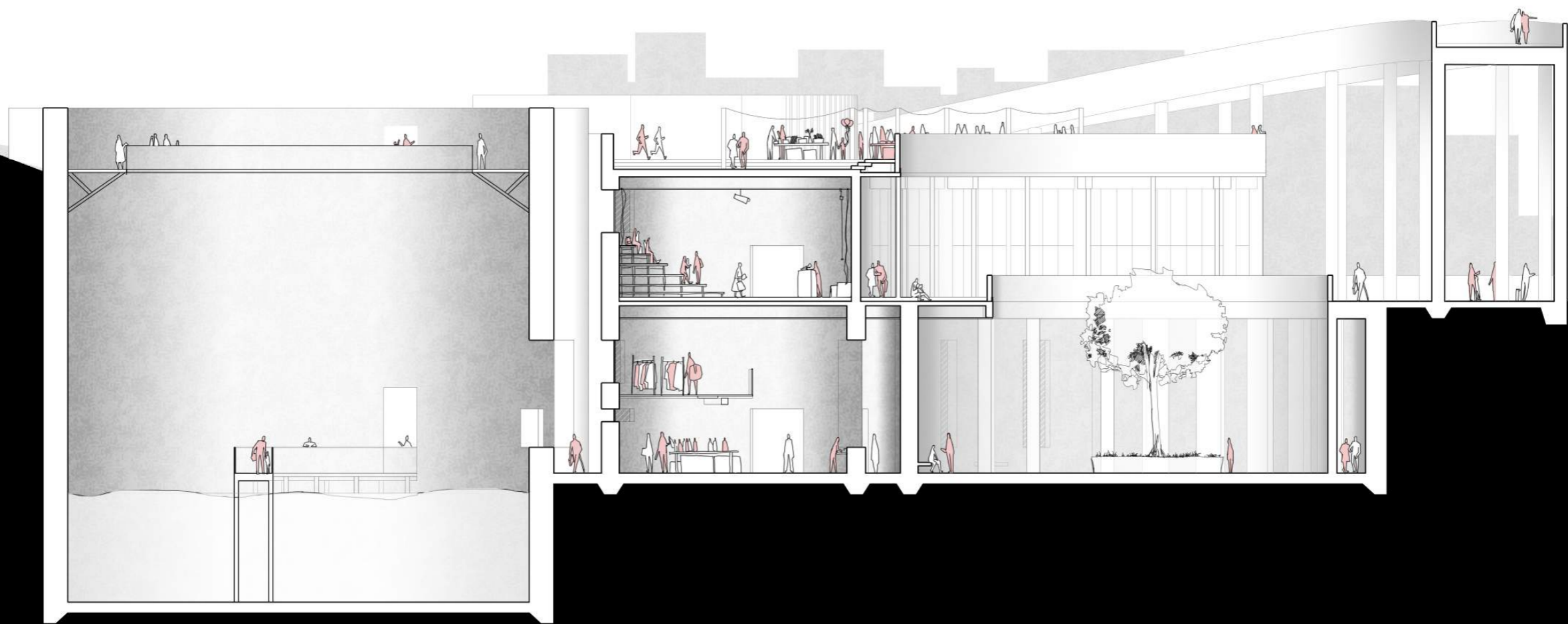
**Window frames**  
flexible walls

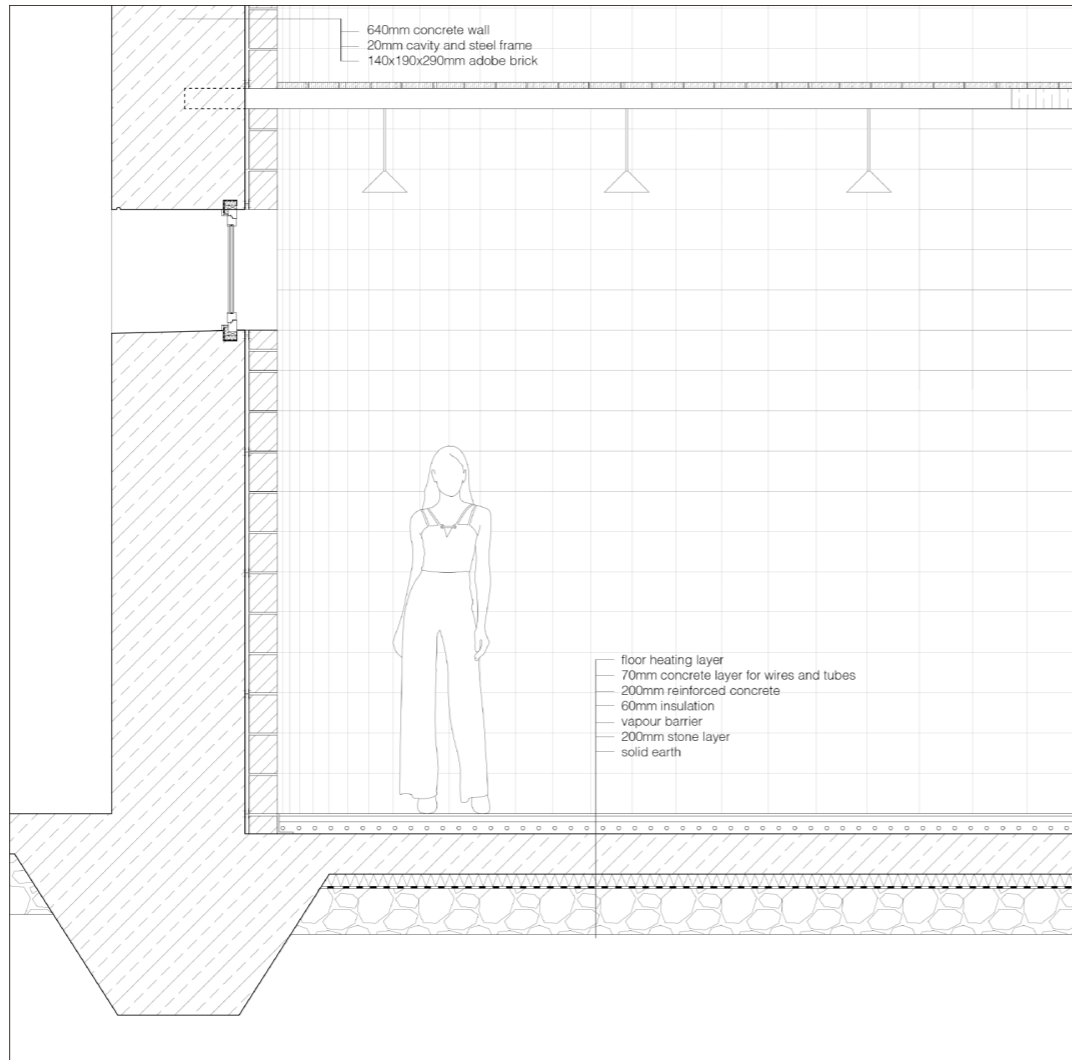


View from Cerro Alegre

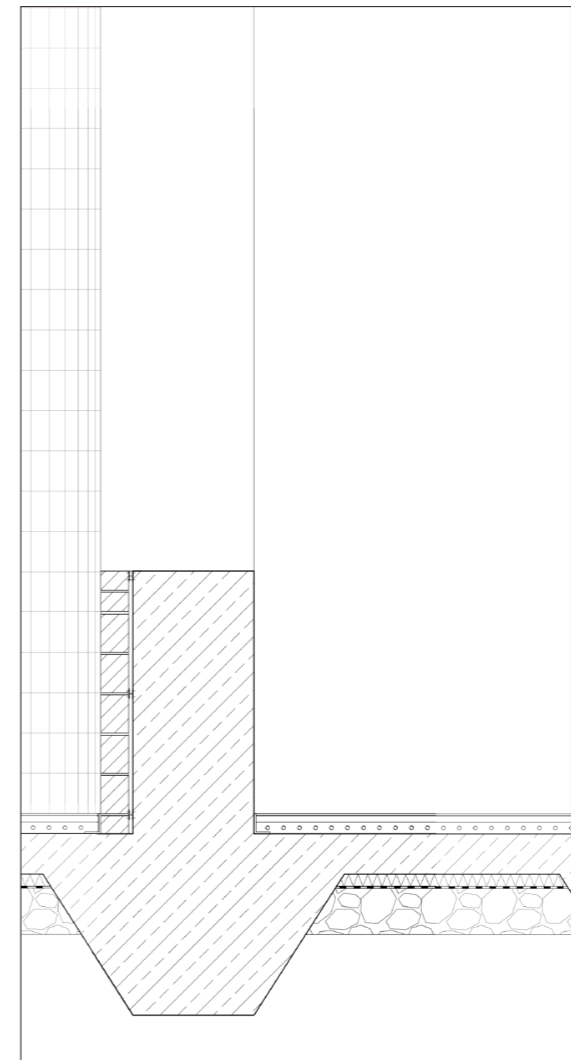


View from cemetery

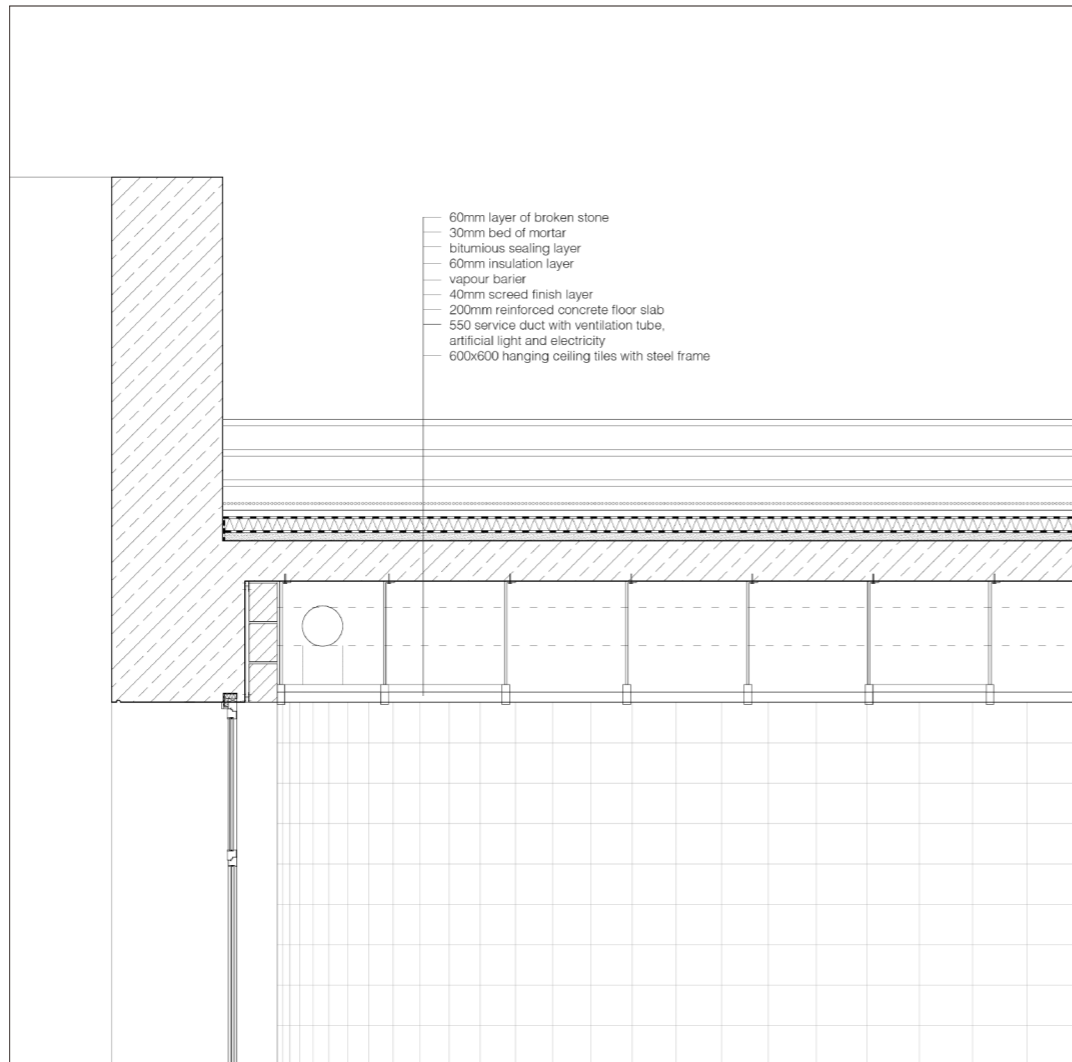




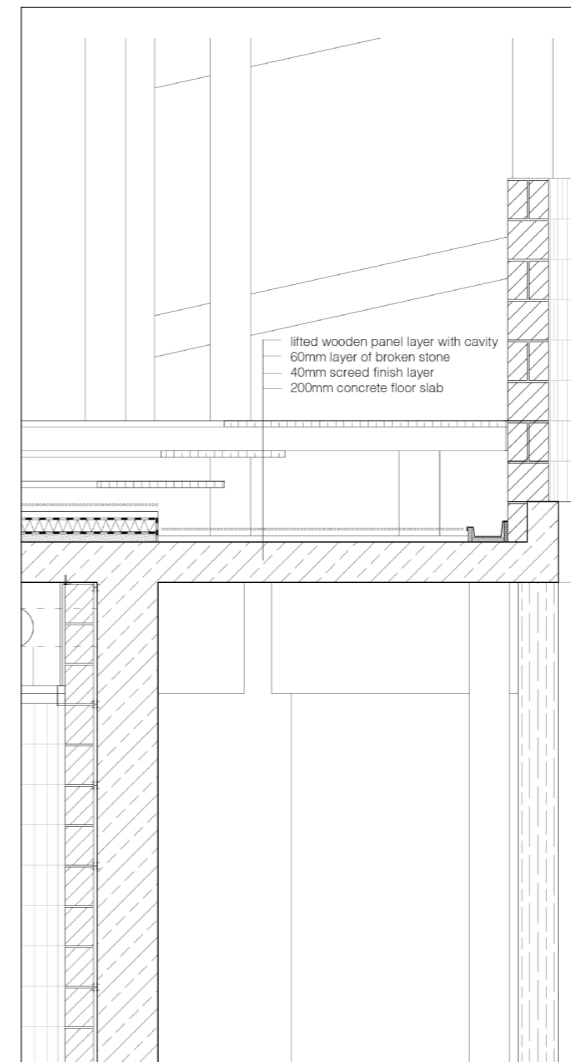
Detail A



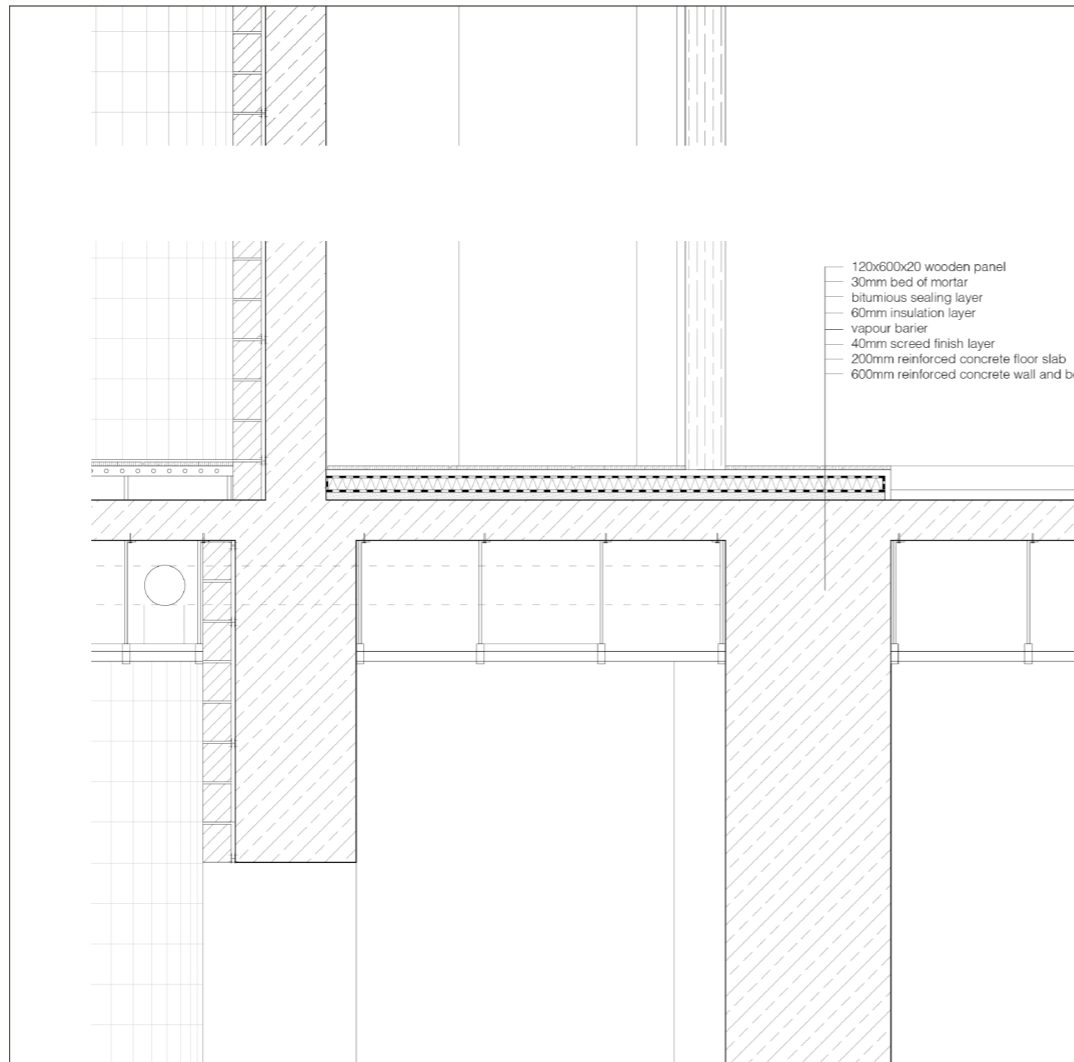
Detail B



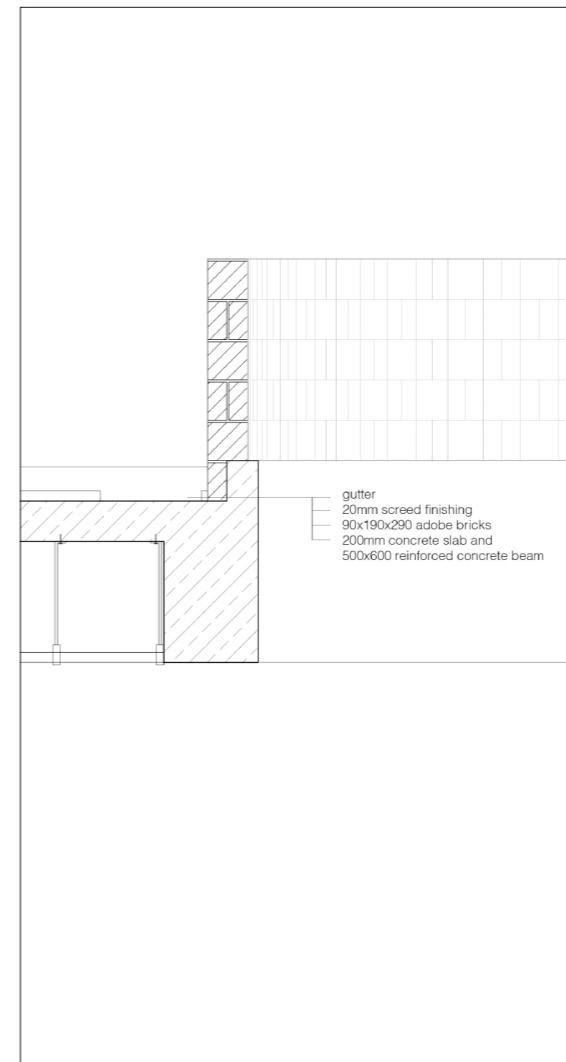
Detail C



Detail D



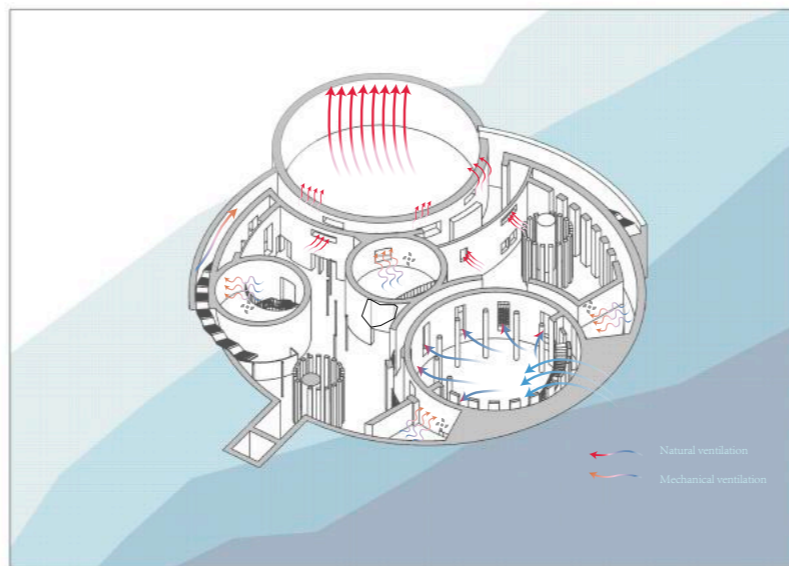
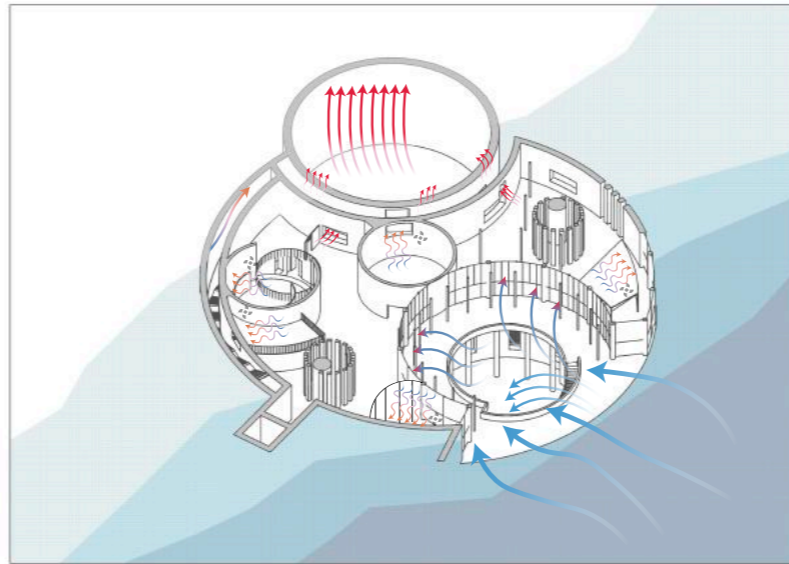
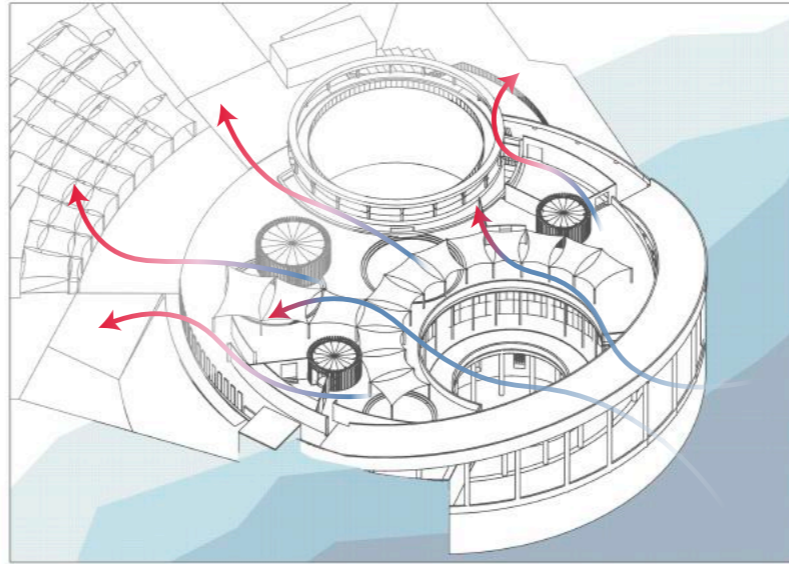
Detail E

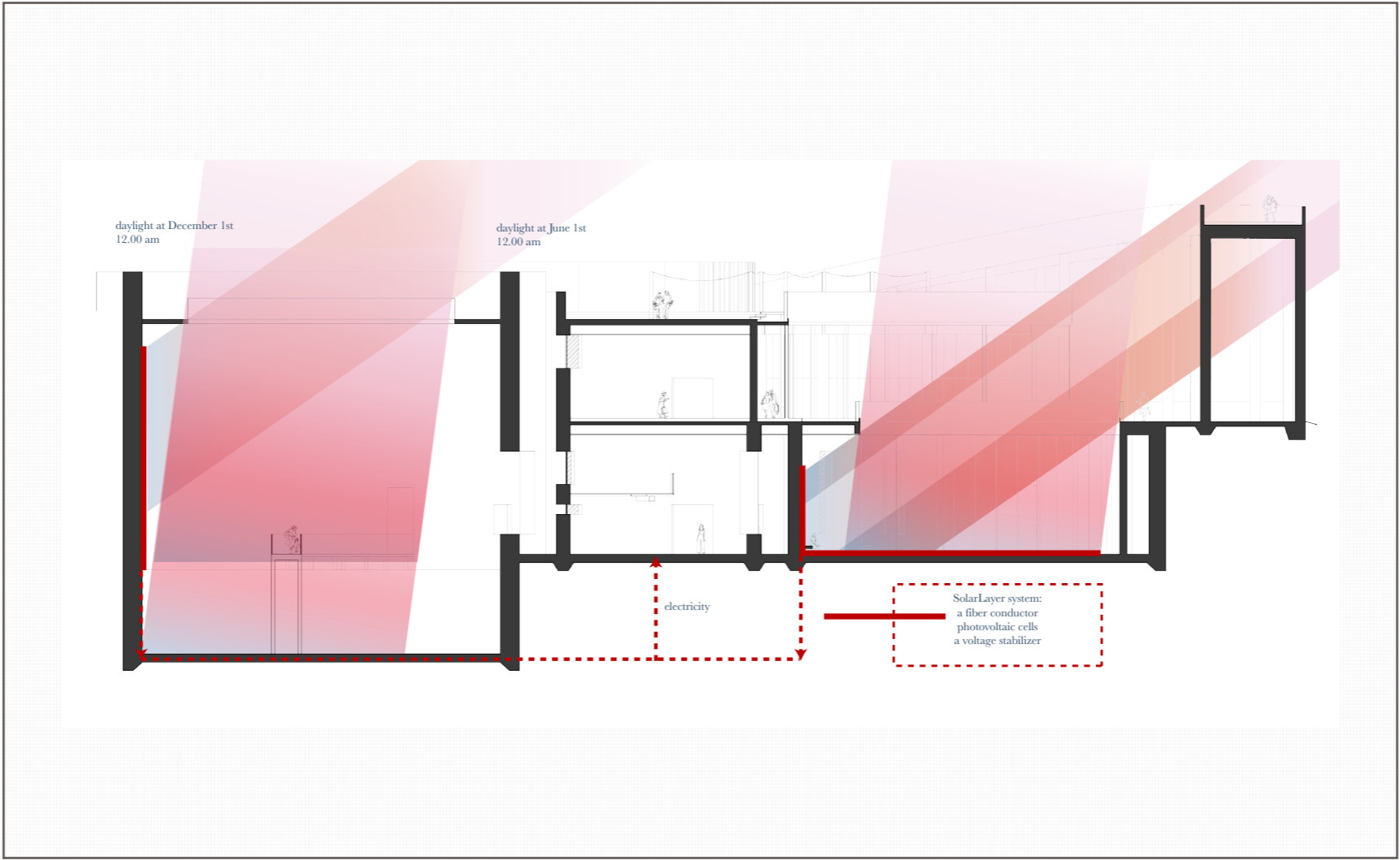


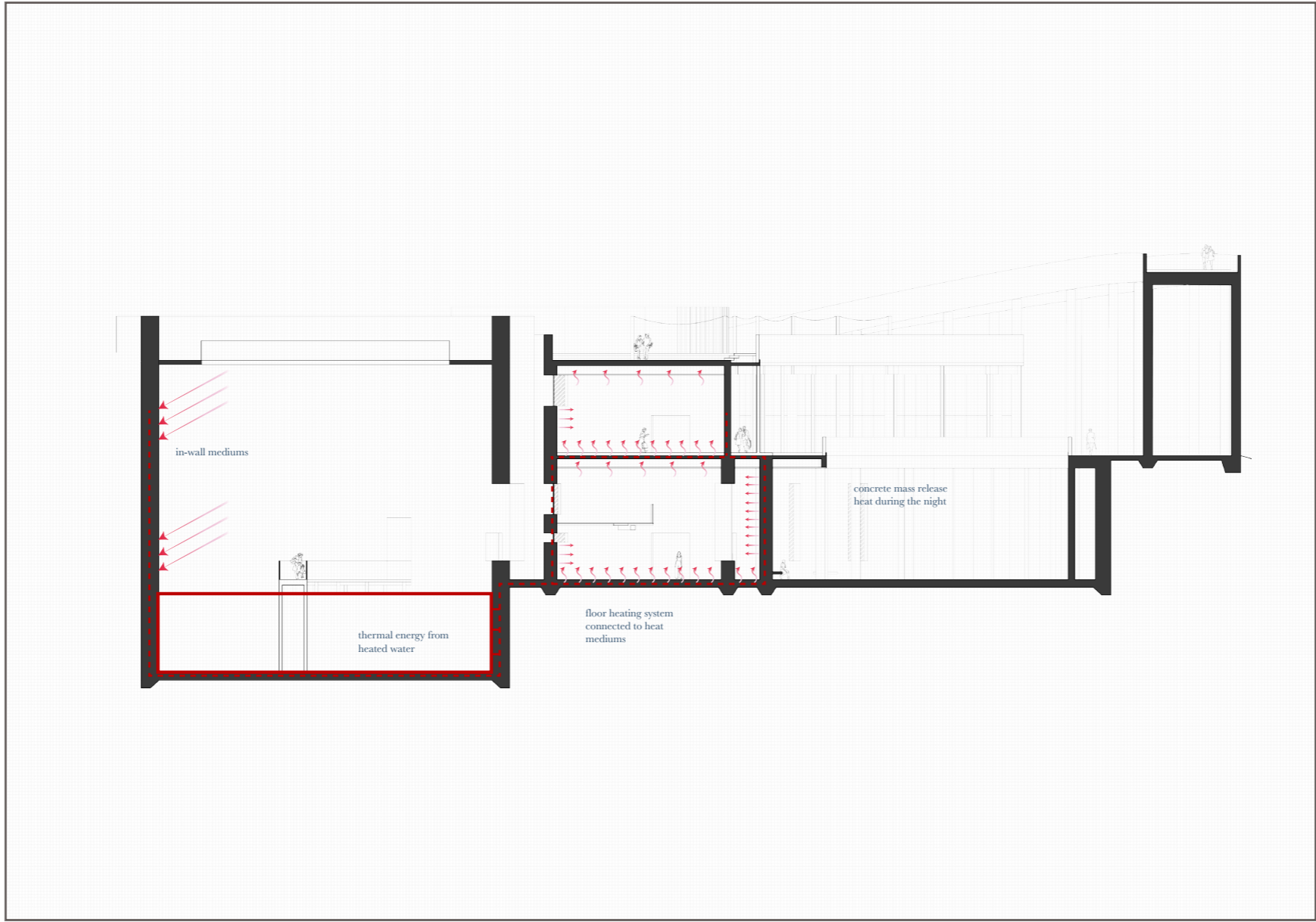
Detail F

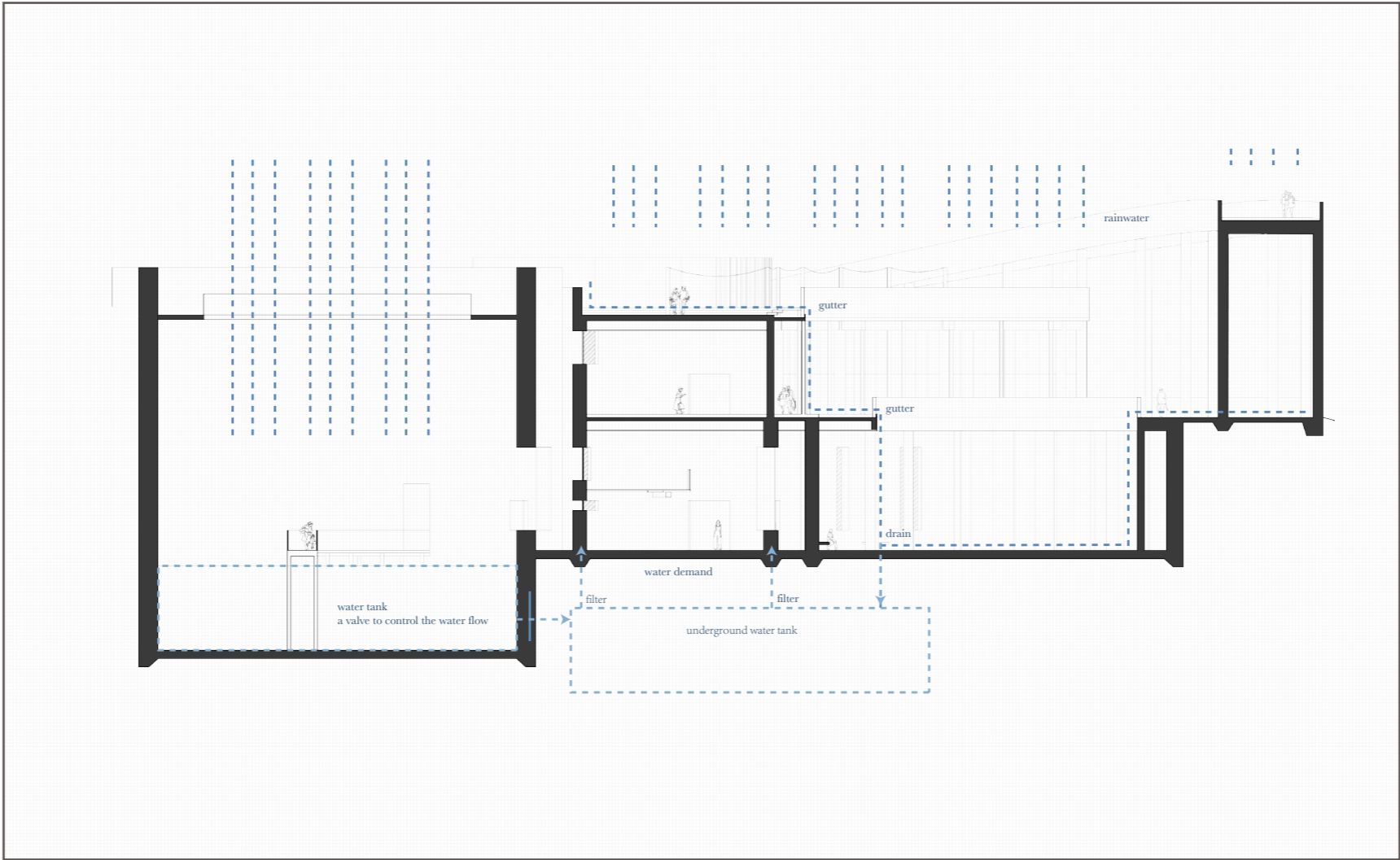
# Valparaíso upcycling market

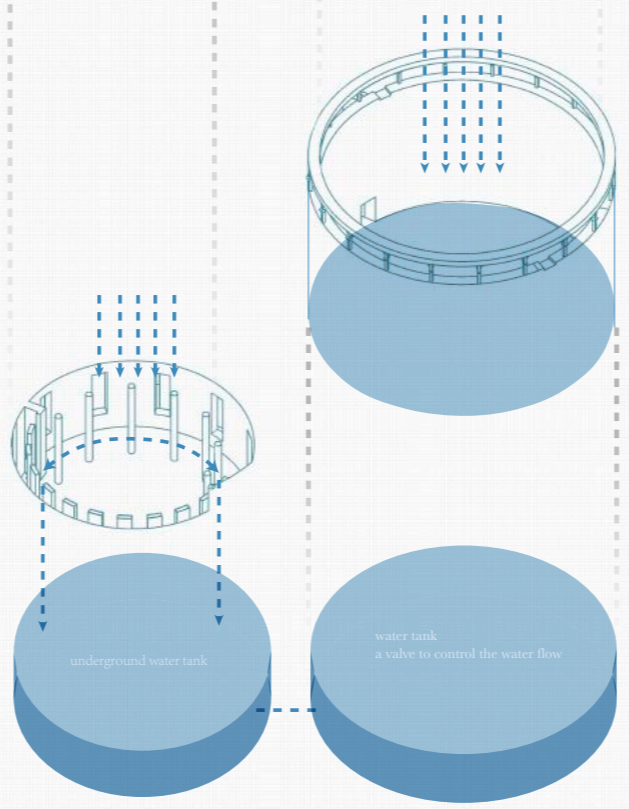
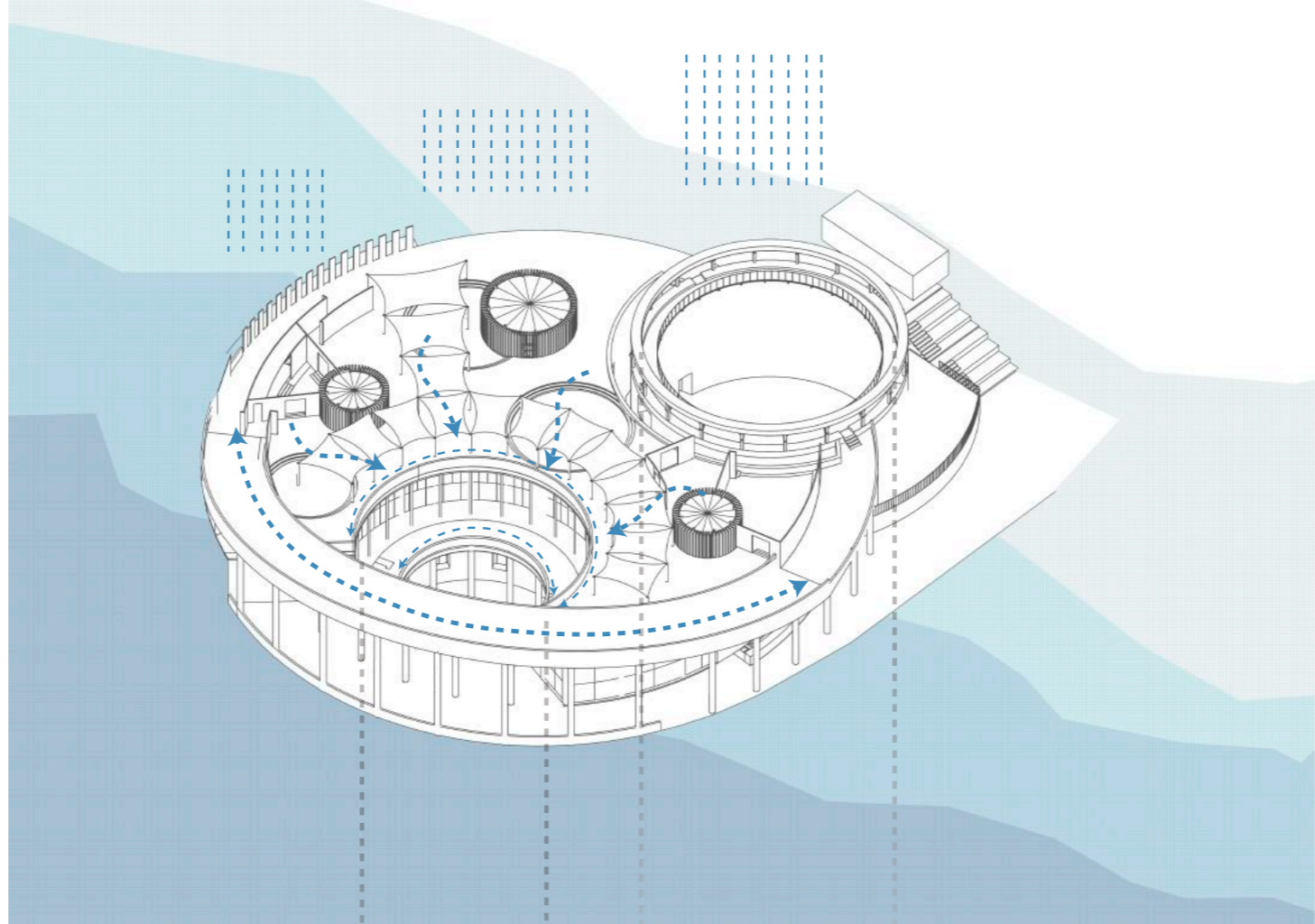
Climate











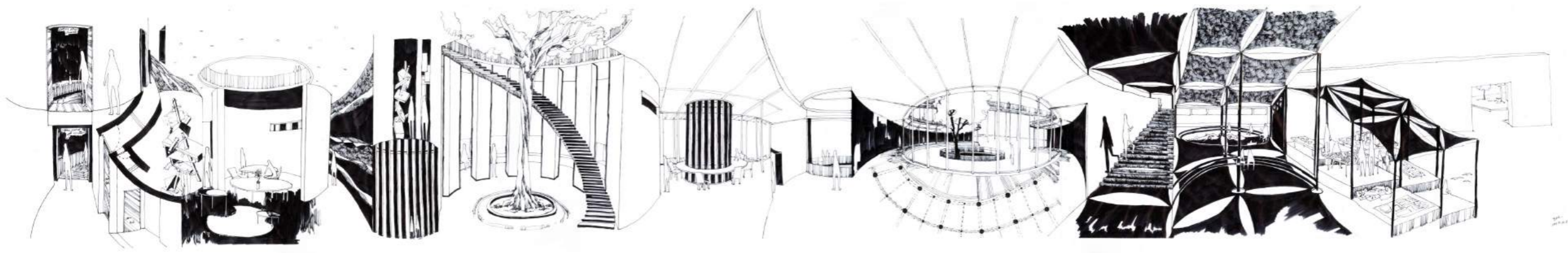
# Methods

Sketches - panoramas





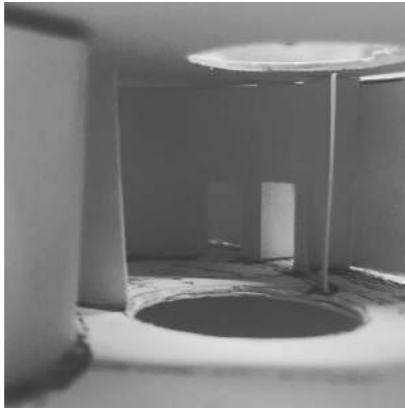
The Night Revels of Han Xizai. Gu Hongzhong (937-975)  
Revived from <http://en.dpm.org.cn/collections/collections/2009-09-24/849.html>



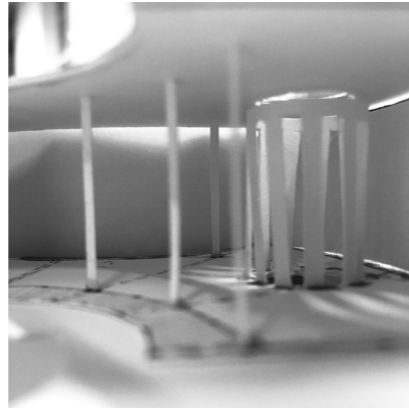
# Methods

Models

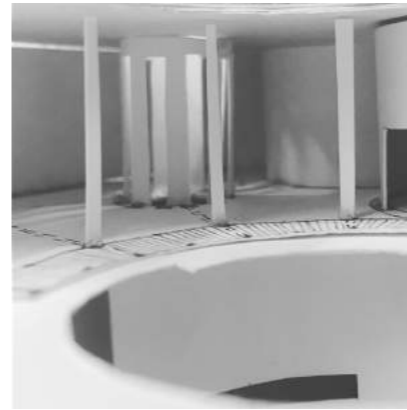




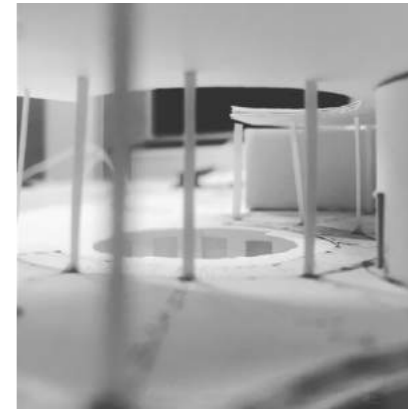
**Lightwell**  
double height space  
with elevators



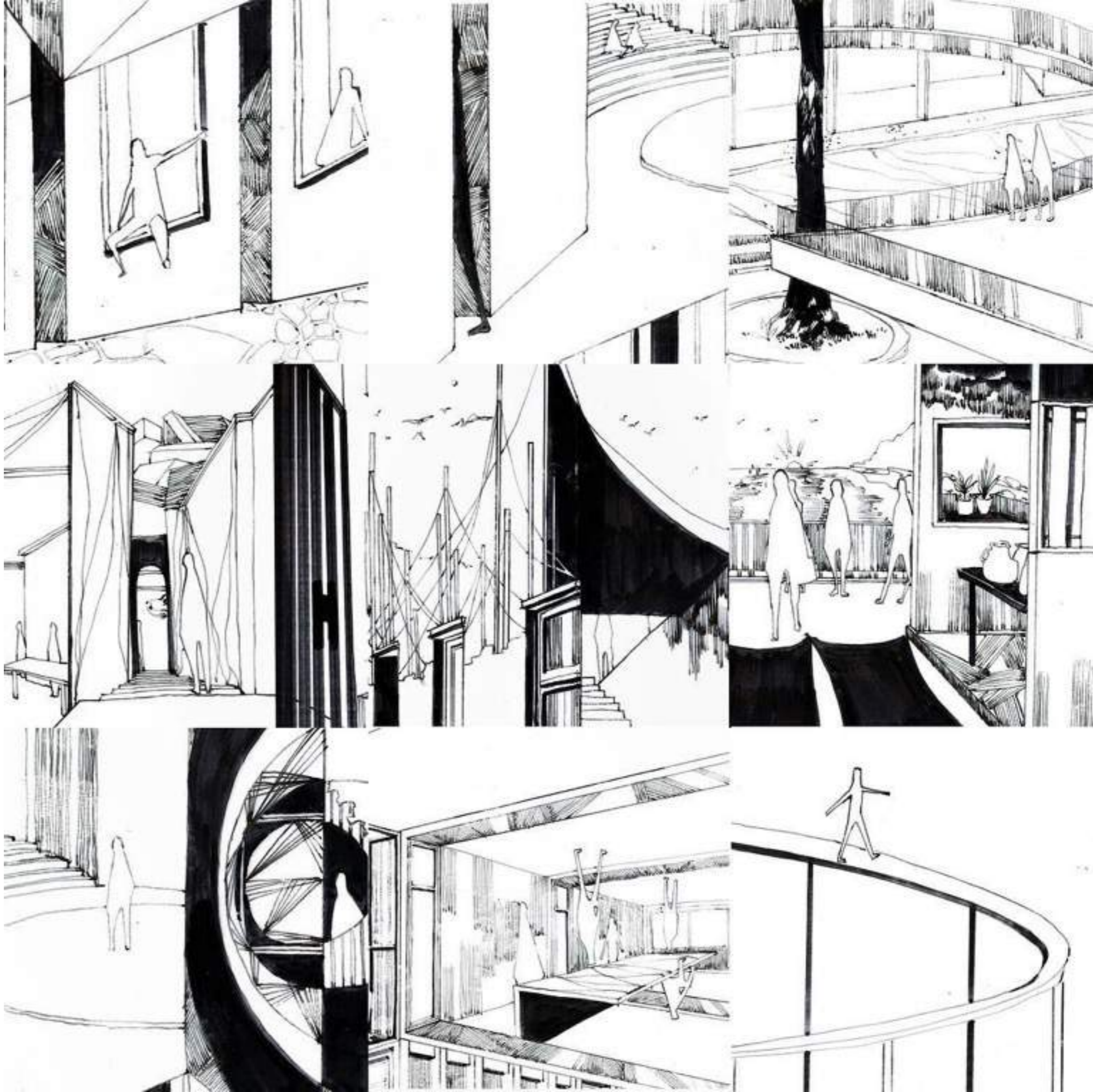
**Lightwell**  
light-cage-escape



**Courtyard**  
arcade with wooden floor  
and thin timber columns



**Courtyard**  
open view towards the ocean



Reflection



**Thanks for joining!**

Thanks to my friend  
Matthew, Jo, Joshua, Xuxu, Feng, Lulu, Yitang  
And all my methods fellows