

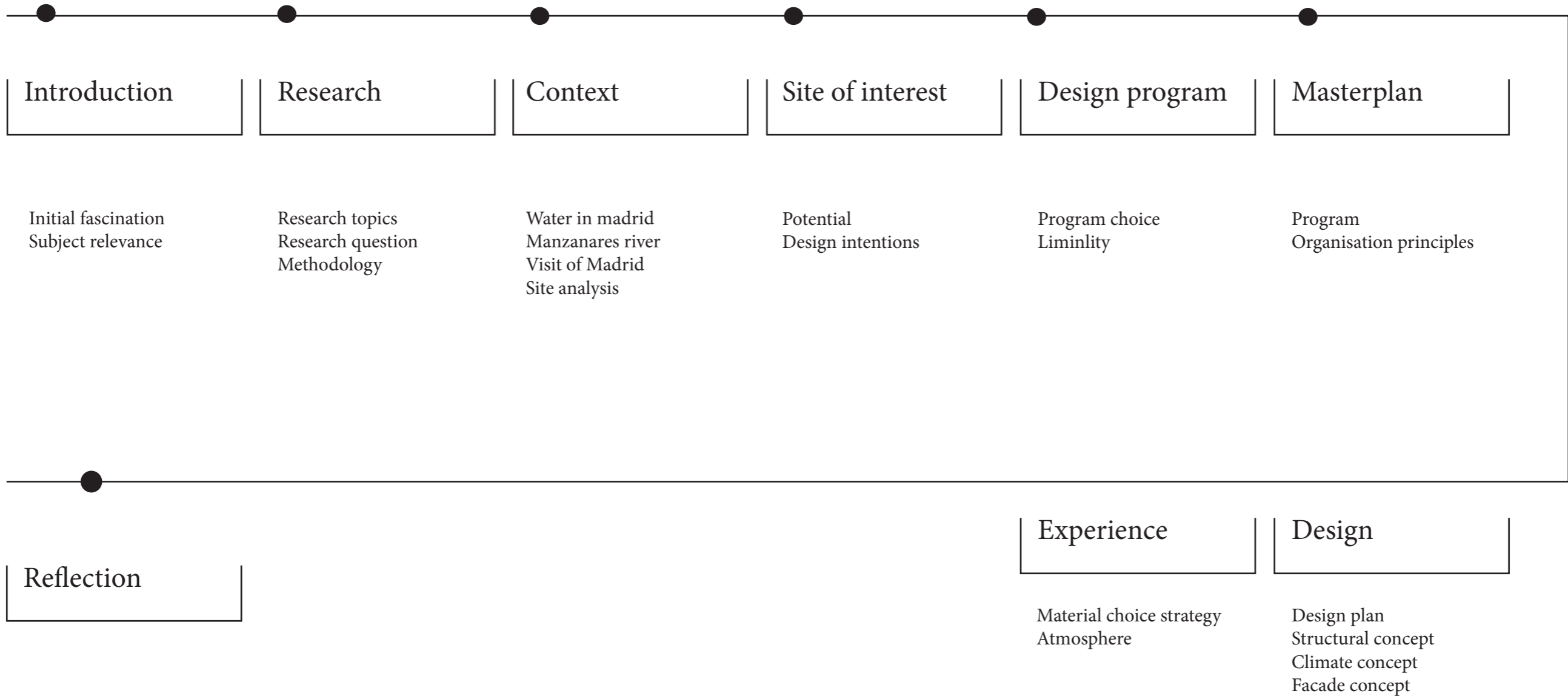
Liminal waters

Discovering the productive liminality and metamorphic capacity
of spaces in transition

P5 Presentation

Architectural Design Crossovers Graduation Studio 2024-2025

Hristiyana Mirova



Initial fascinations

Urban expansion



Image: Div, n.d.

Fight against the emerging isolation between the elements of the fast-growing city, use genius loci to strengthen the sense of community.



Productive liminality

Void

Glitch

Discontinuity

Disjunction

Gap

Crack

Coincidence

Threshold

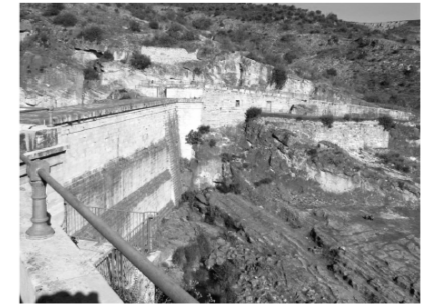
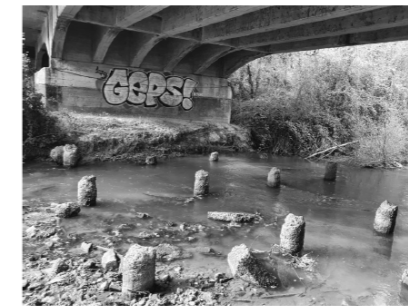
Abandoned places/
structures

Interstitial space

Urban negative

Anti-space

Regeneration
Metamorphosis



Initial fascinations

Urban cracks

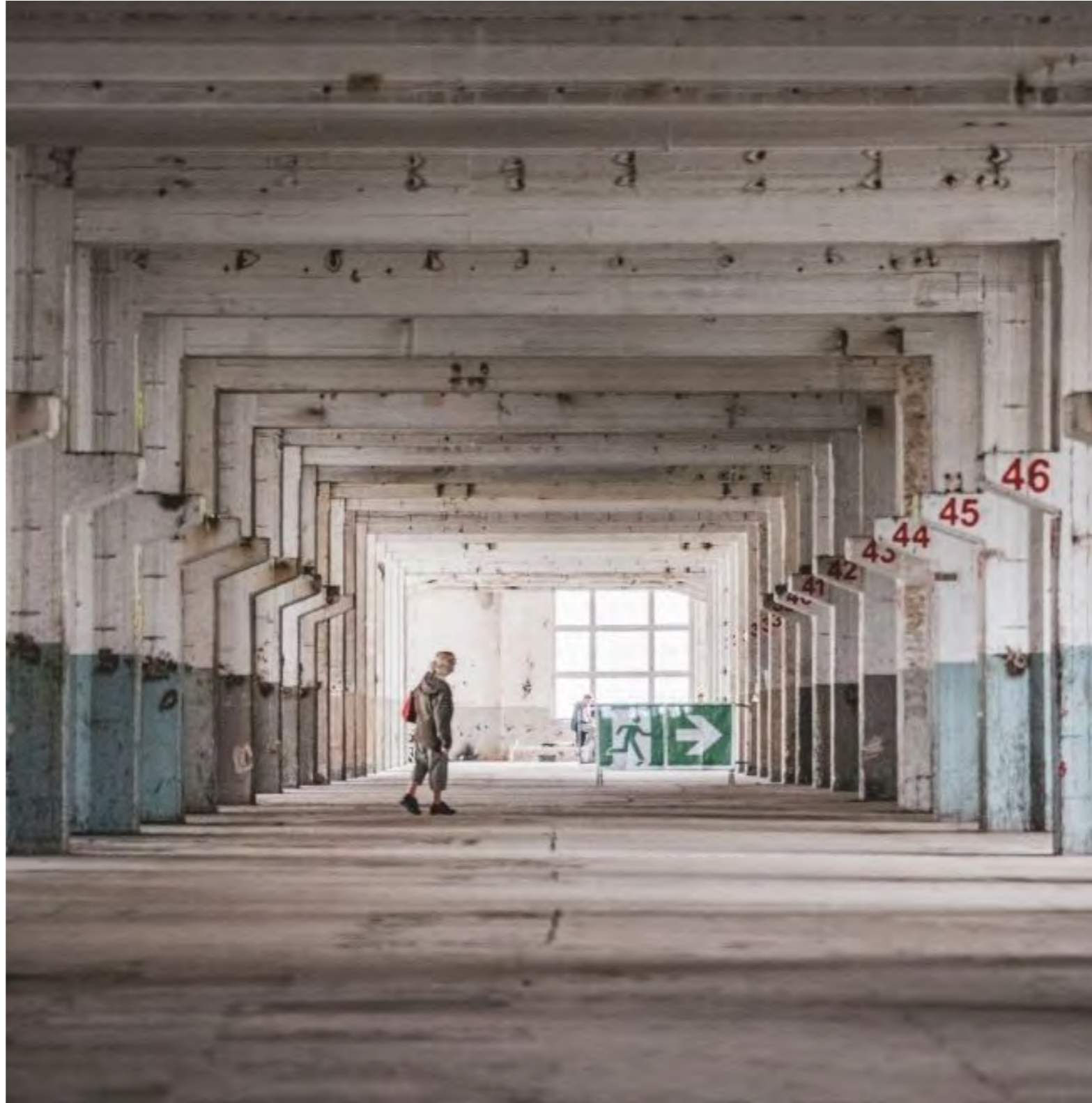


Image: Jenkins, n.d.

Initial fascinations

Urban cracks



Image: Bennett, n.d.

“The crosswalk is the ultimate symbol of liminality. When you’re in a crosswalk, you’re nowhere, really, trying to get from one block to another.” - Steve Bennett

Initial fascinations

Urban cracks in Madrid

Productive liminality



Water

Subject relevance

Context

Water in Madrid

The combination of reduced rainfall and abnormally **high temperatures** has led to significant **water shortages** in Spain.

2023 is the fifth year with the **least water** stored in reservoirs since records have been kept.



Image: 6 C.E.

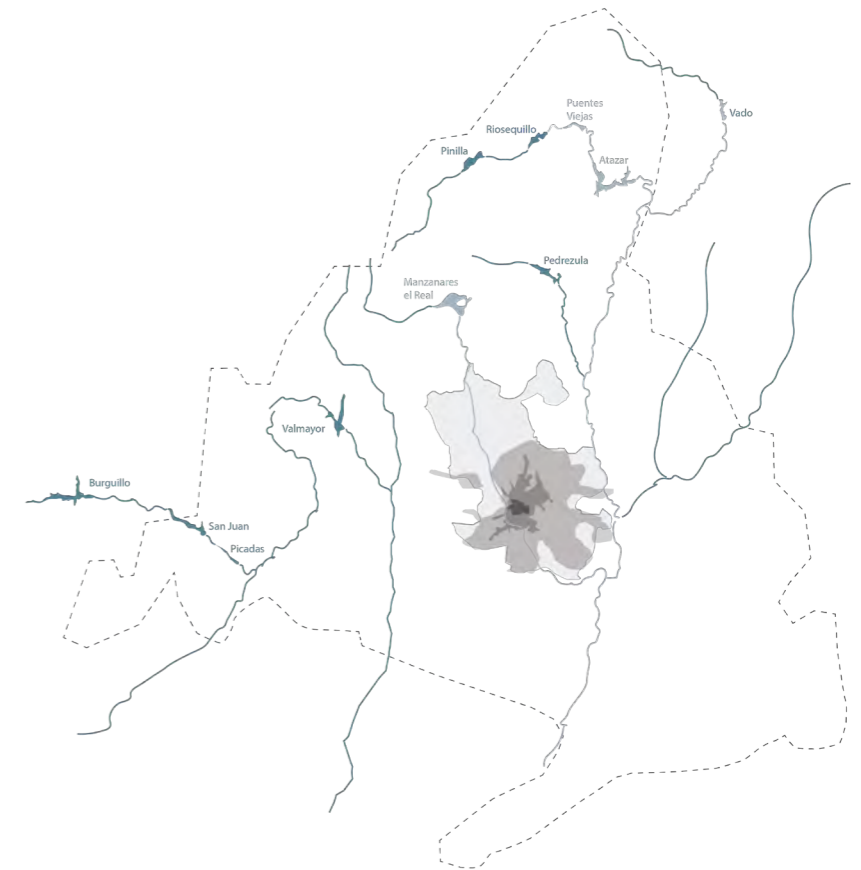


1858

Canal de Isabel II



1945



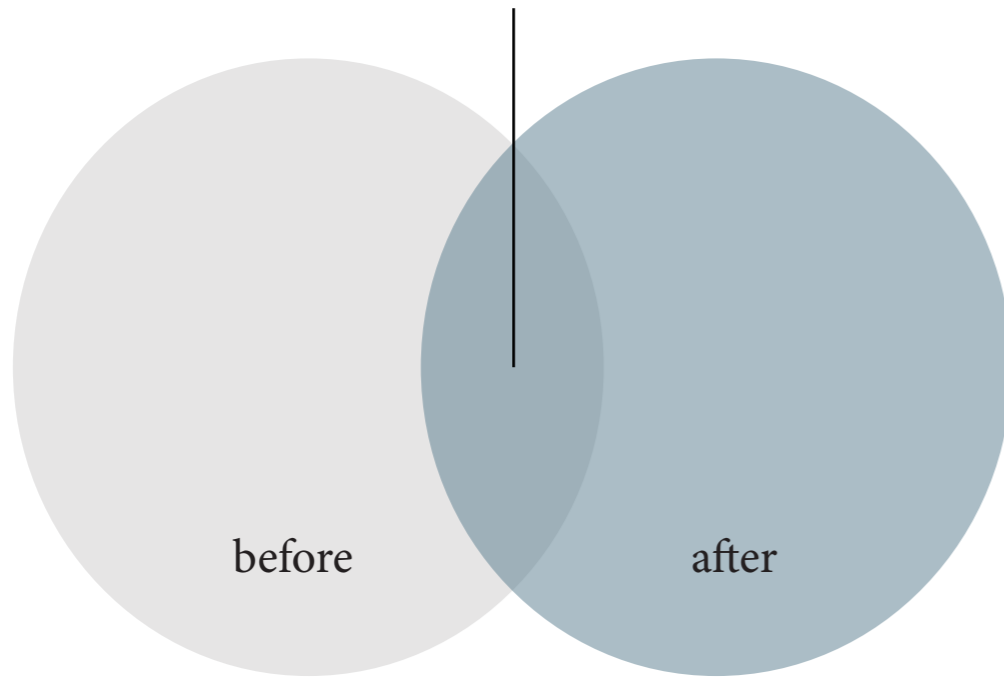
2022

Research framework

Research framework

Research topics

Liminality



Genius loci

genii - "gignere" = to beget, to give birth to
generare = to beget, to generate,

locorum - "locus" = place, position

"Nullus locus sine Genio est" =
"No place is without a genius" -
Servius



Max Harper - Pool liminal space painting

Image: Harper, n.d.

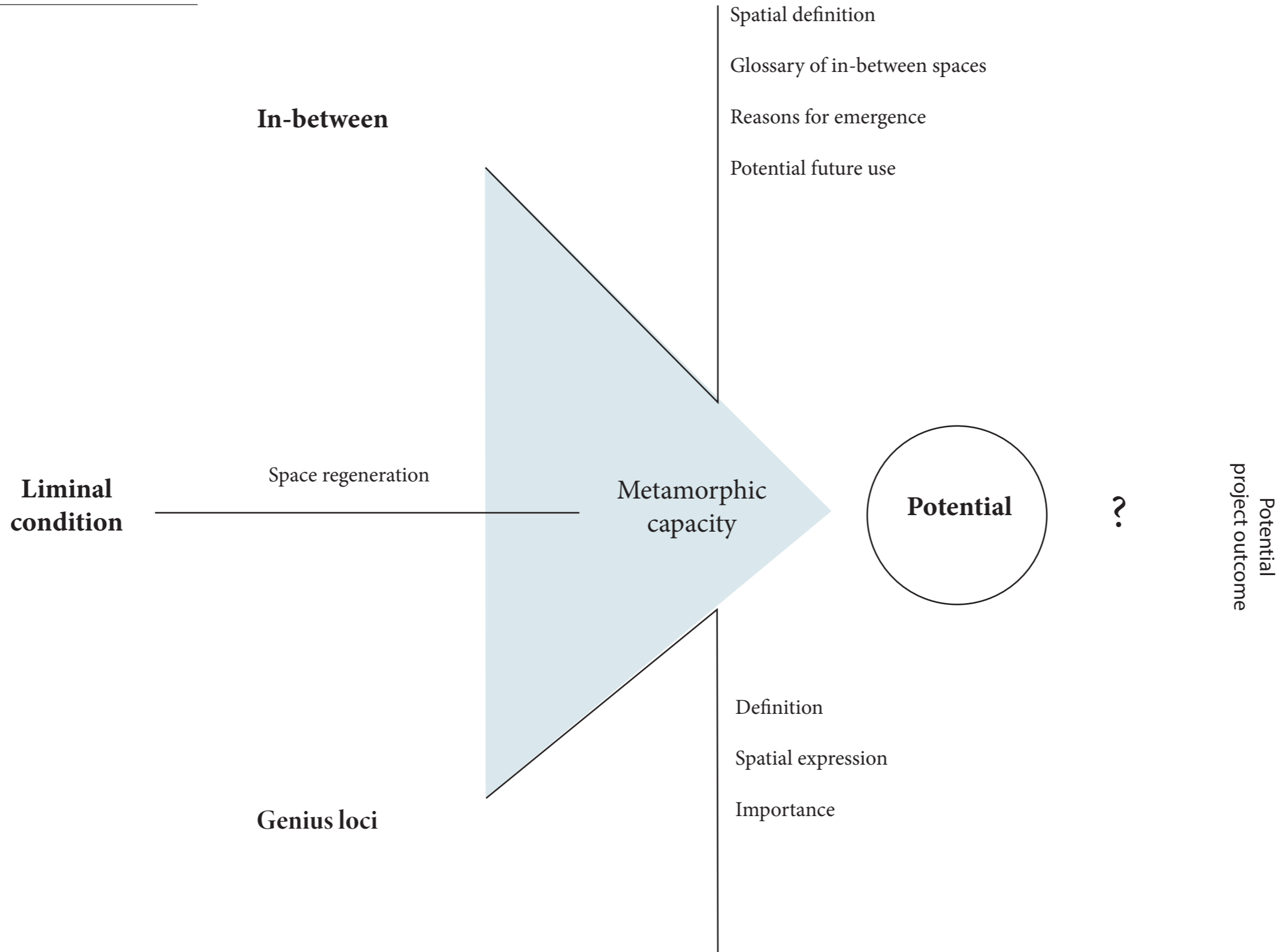


Nikos Hadjikyriakos-Ghika, Genii Loci II (1970)

Image: Hadjikyriakos-Ghikas, 30 C.E.

Research framework

Research topics



Research framework

Research question

What if architecture could be used as a framing device to unleash the power of genius loci and thus trigger a process of space meta/morpho/genesis?

Past

In-between

Future

Design program

Design program

Design questions

How can the regenerative power of water and its liminal nature be used as a main design element for an architectural intervention which aims to unleash its regenerative power and trigger the transformation of a certain place?

Design program

Water - Body contact



Image: Blitz, n.d.

Liminality

Comfort

Water

Design program

Water - Body contact



Image: Lazinger, n.d..

Immersion



Image: Paillard, n.d.

Floating

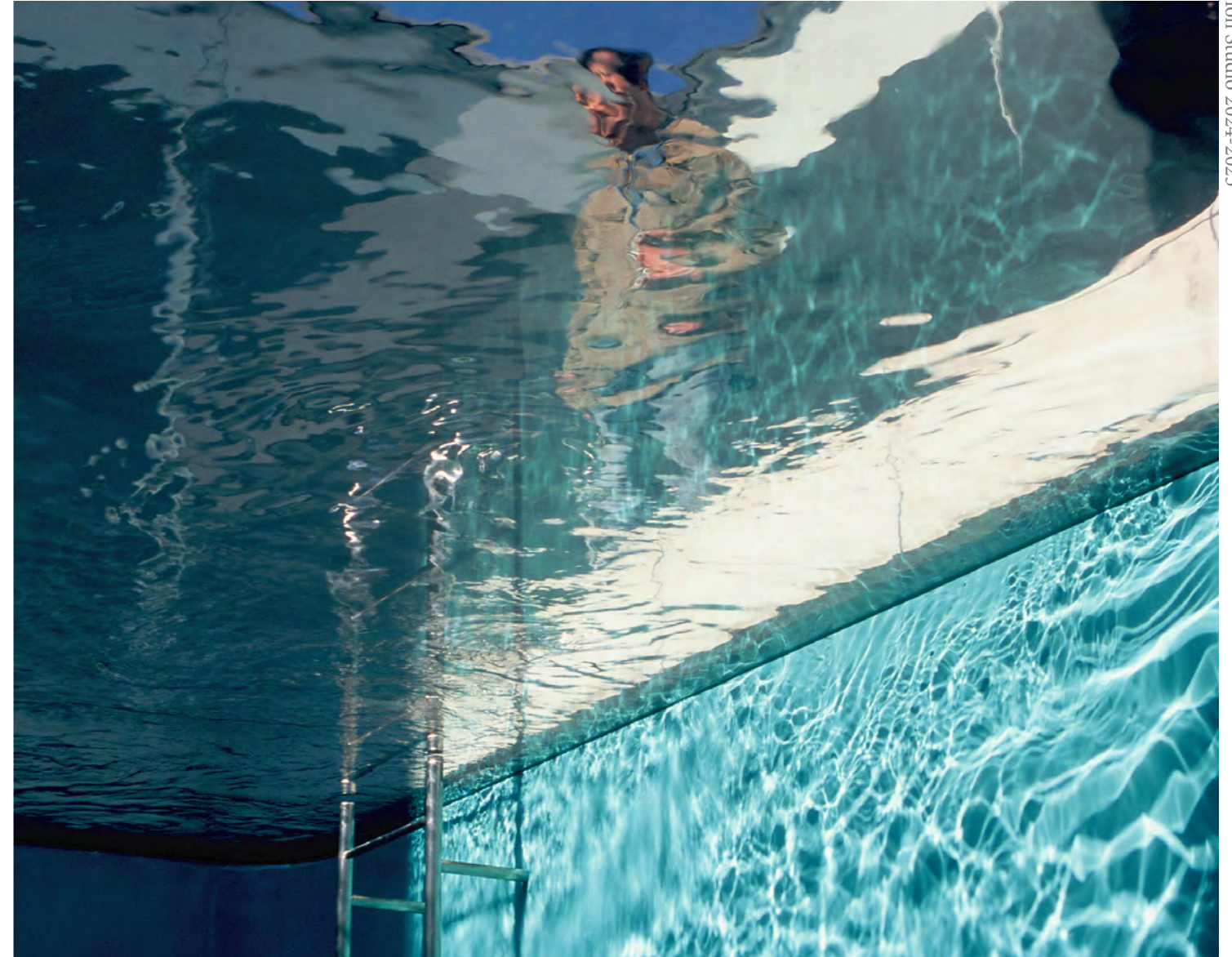


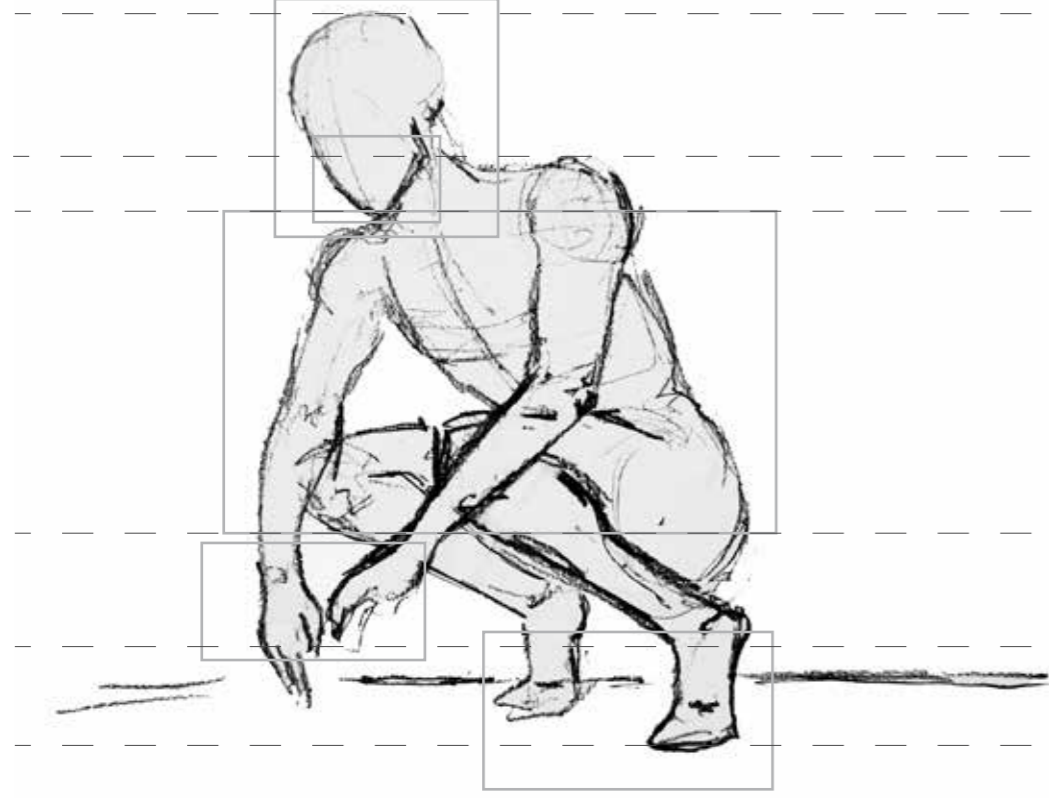
Image: Erlich, 3 C.E.

Submerging

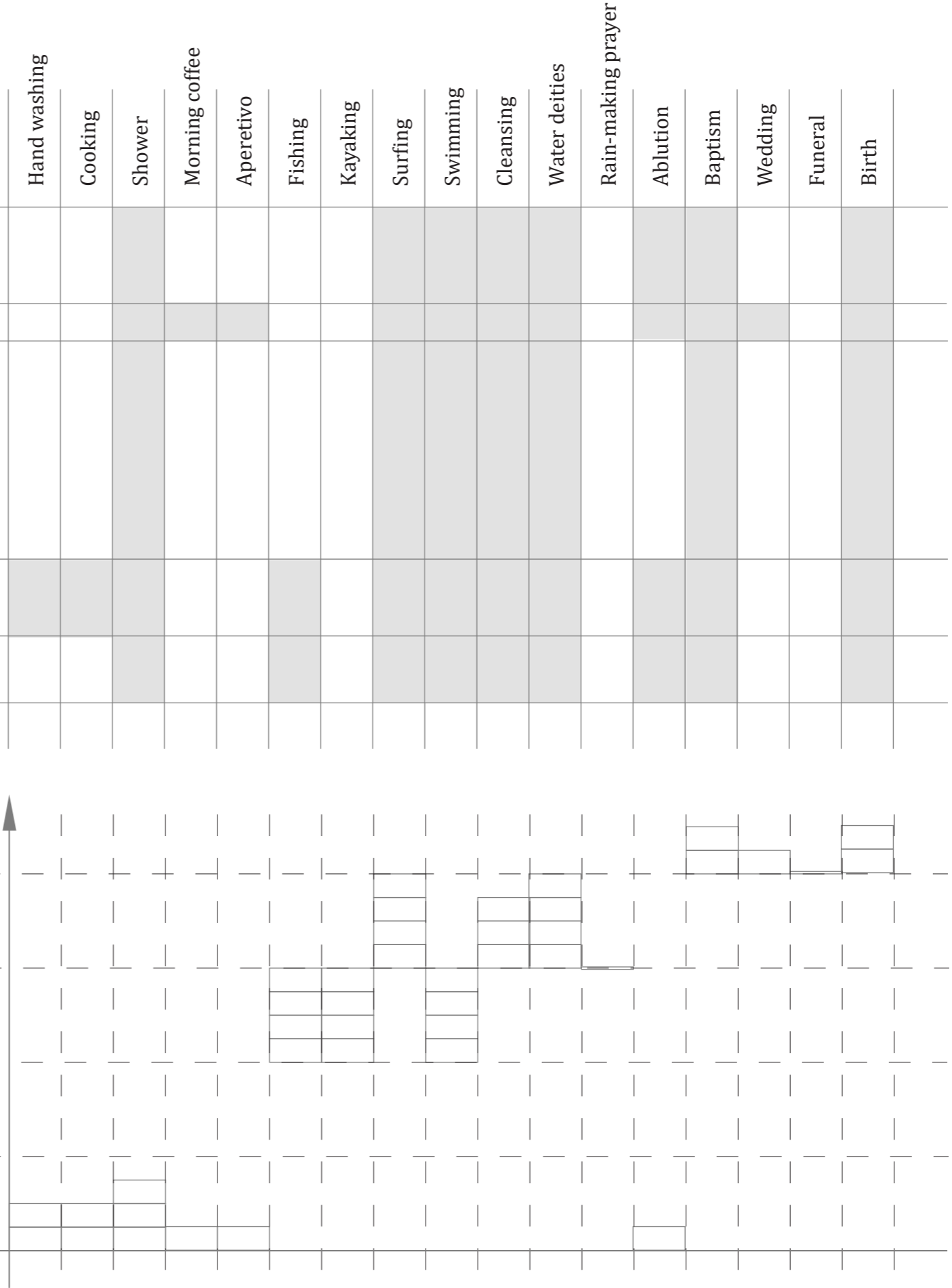
Soaking

Design program

Water - Body contact



Contact BODY --- WATER



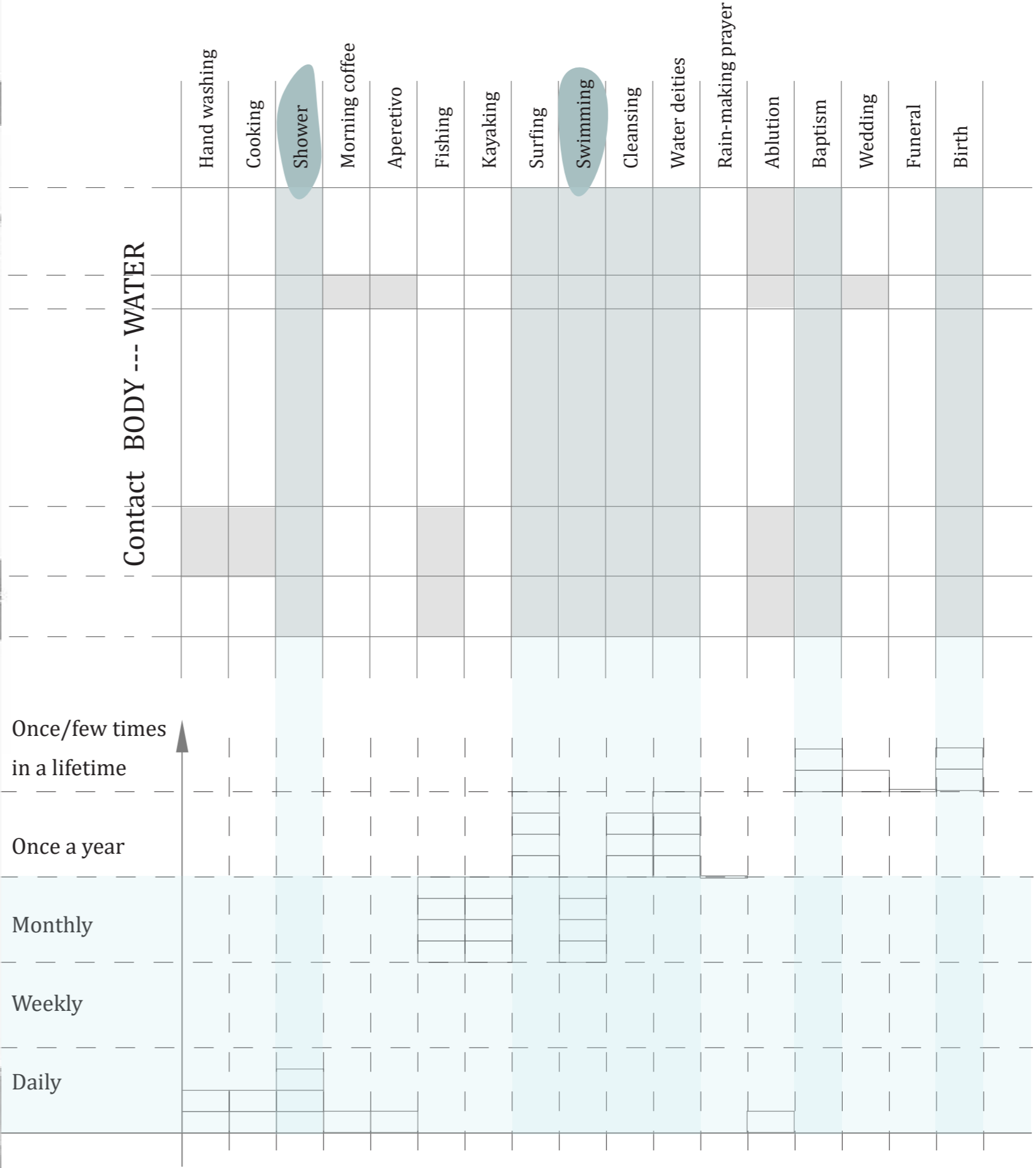
more
150 L
15 L
1L

Design program

Design goals realisation and challenges

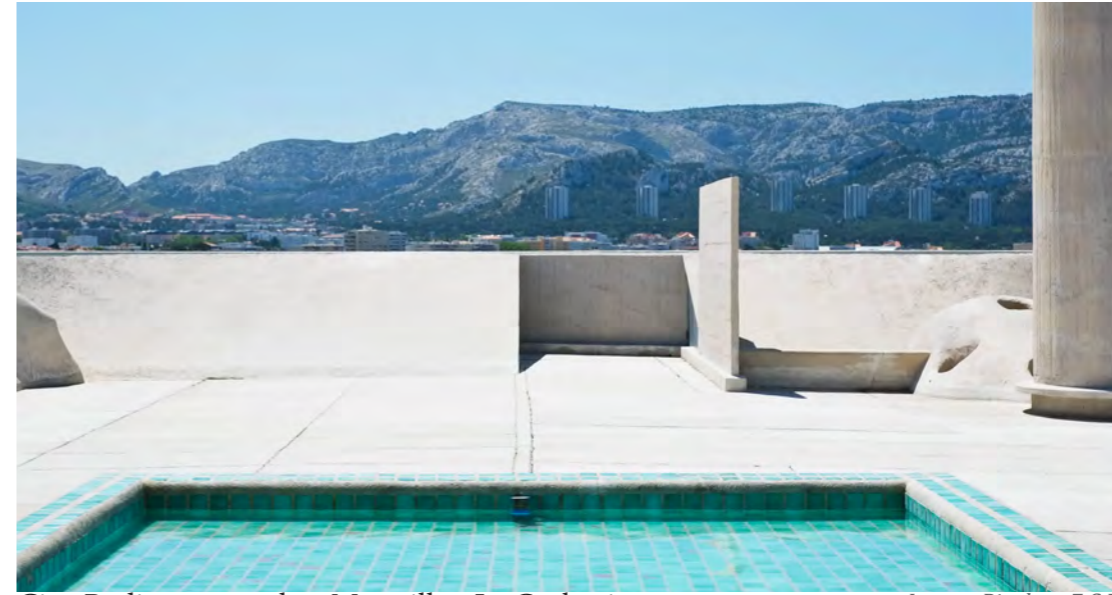
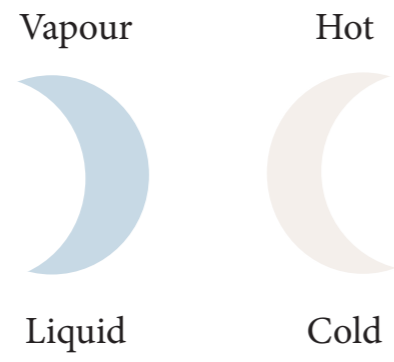


Image: n.d.



more
150 L
15 L
1L

Design program



Cite, Radieuse complex, Marseilles, Le Corbusier

Image: Pixabay, 7 C.E.



The garden spa, by L. Occicante

Image: (n.d.). Indoor swimming pool

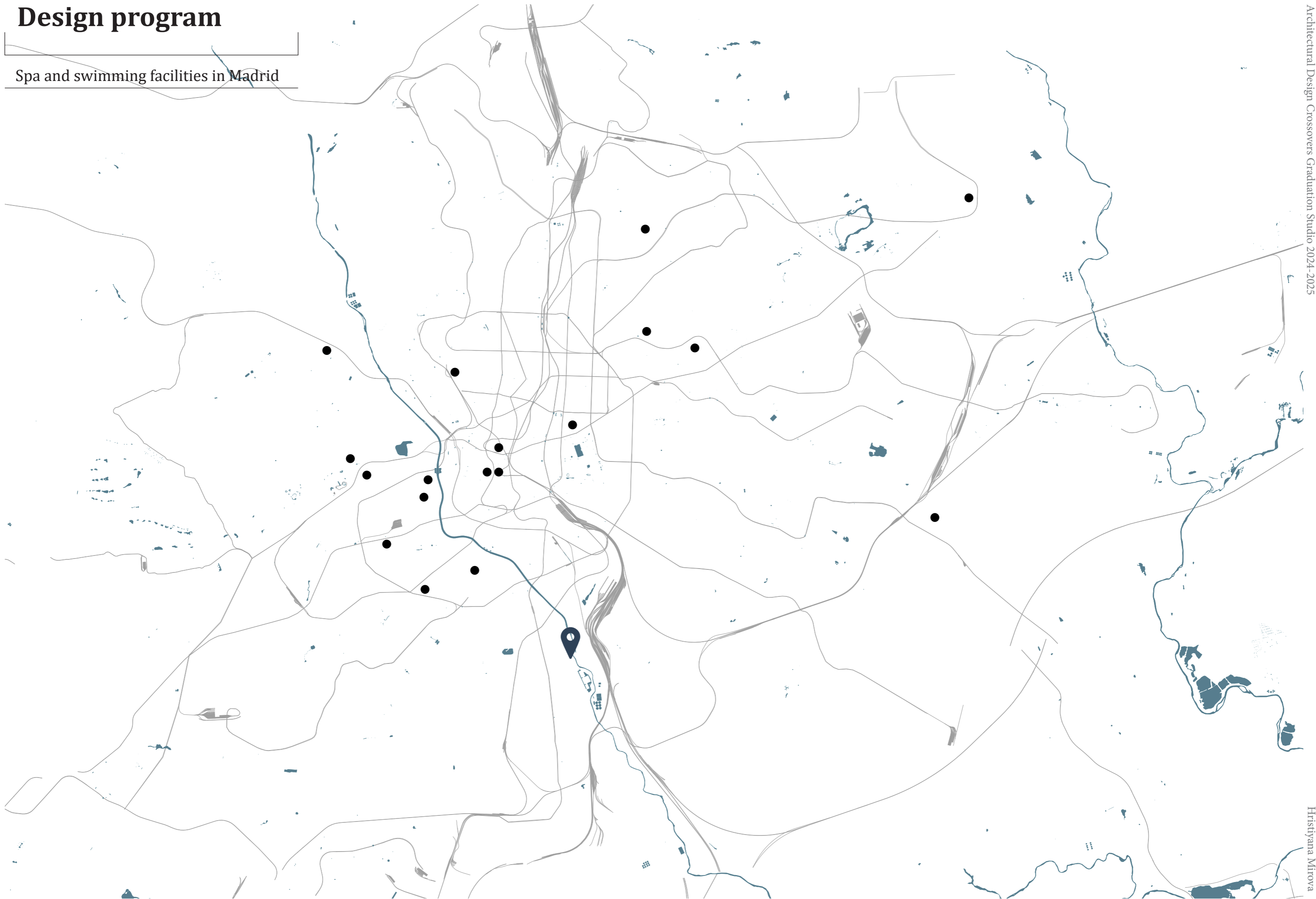


Ruff Well Water Resort , AIM Architecture

Image: Weiblen, n.d.

Design program

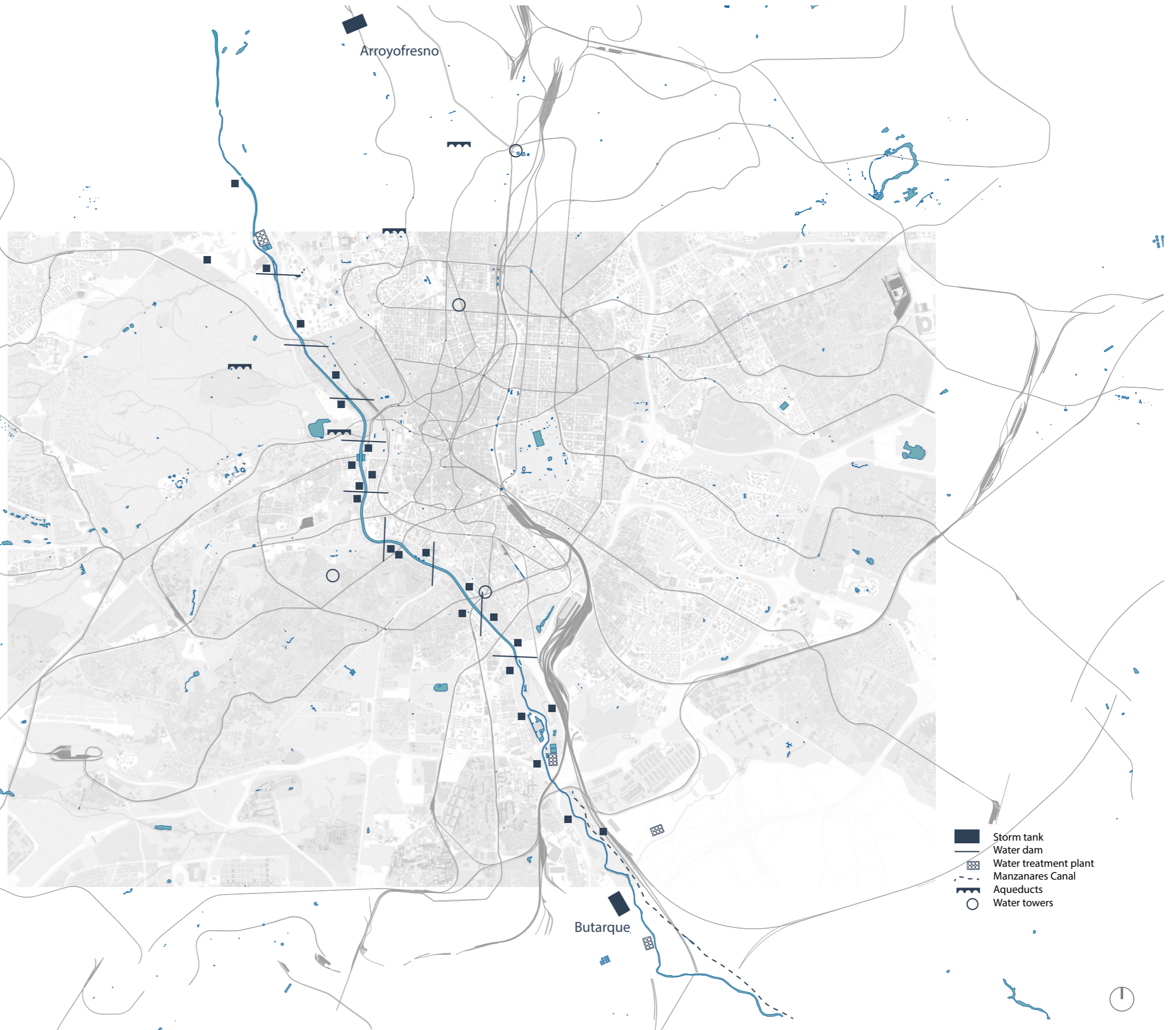
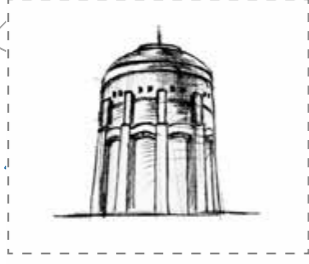
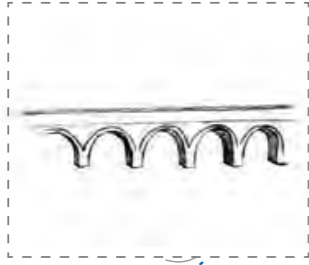
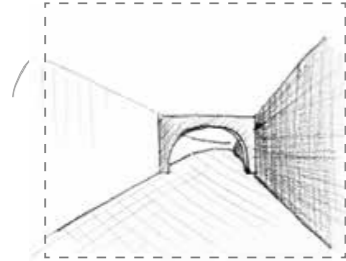
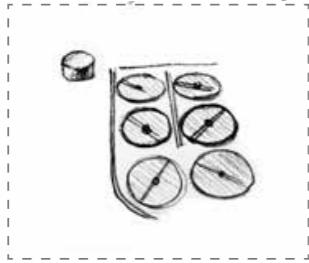
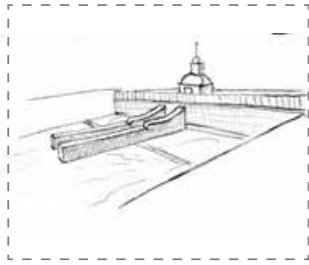
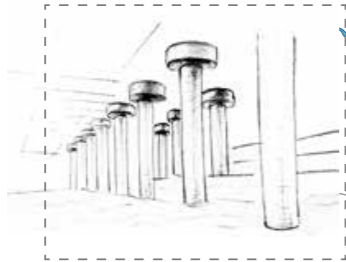
Spa and swimming facilities in Madrid



Context exploration

Context

Water in Madrid



Context

Manzanares river

Before

Symbol of the city

- flourishing
- meeting place
- swimming
- sports
- washerwomen

Now

Marely a creek

Is there a river anymore?



The Washerwomen, Francesco de Goya



'Picnic on the Banks of the Manzanares, 1776, Francesco de Goya



The Dance of the Manzanares, Francesco de Goya



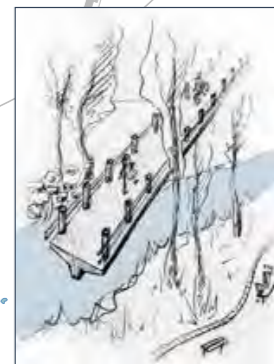
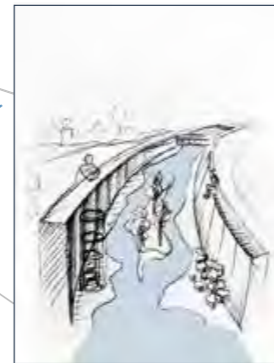
Image: by Author



Image: by Author

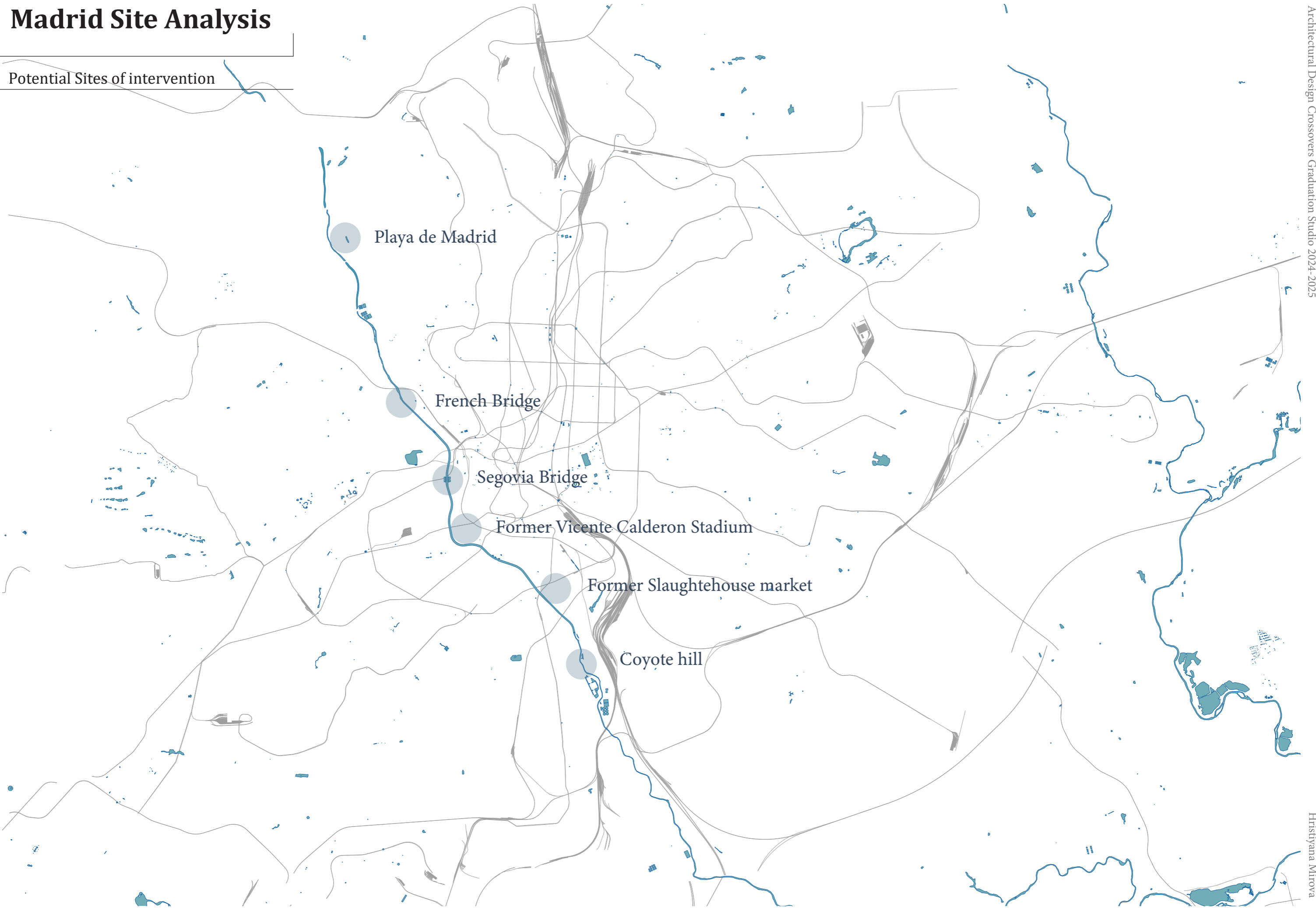
Madrid Site Analysis

Madrid visit - genius loci atmosphere



Madrid Site Analysis

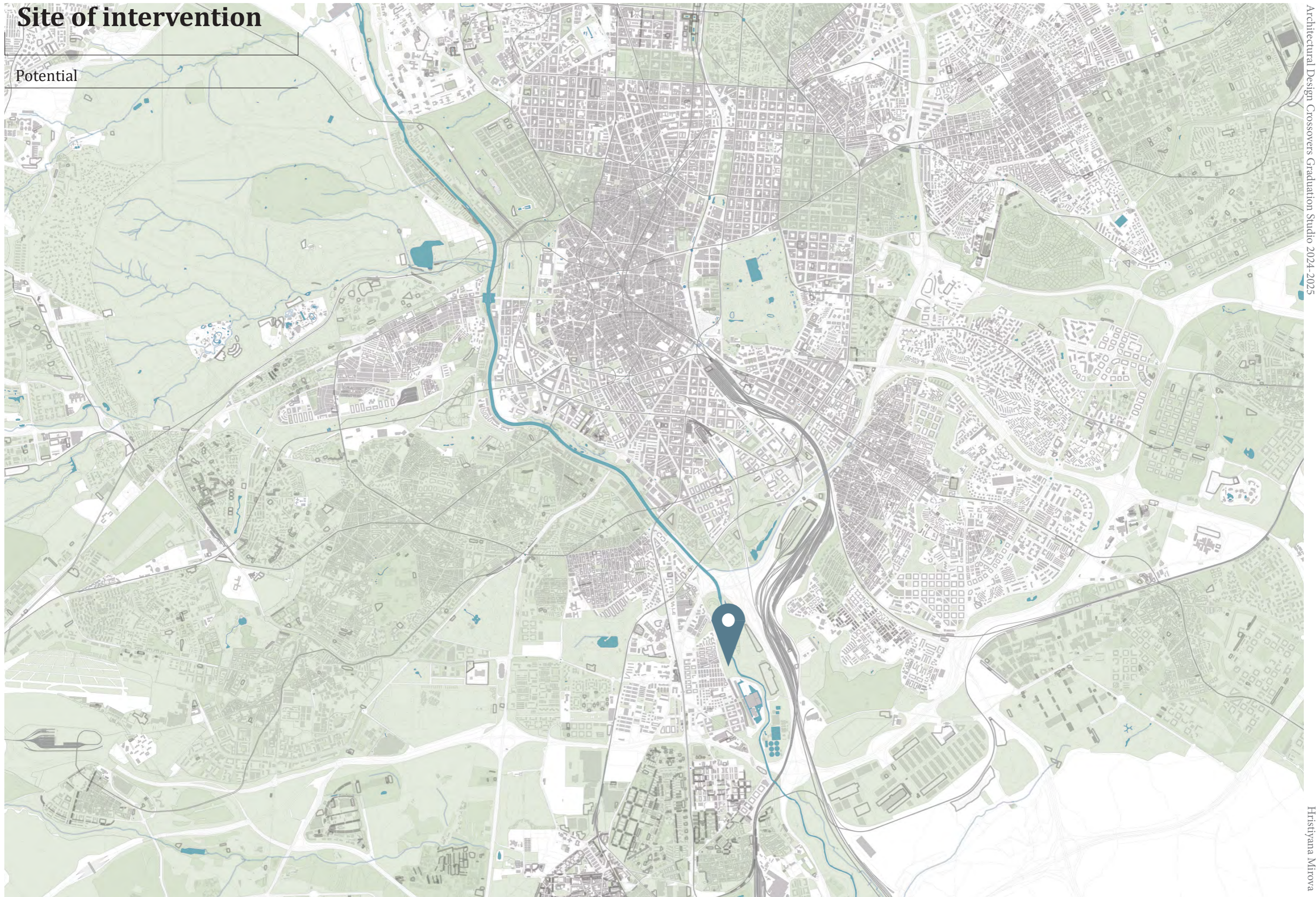
Potential Sites of intervention



Site of interest

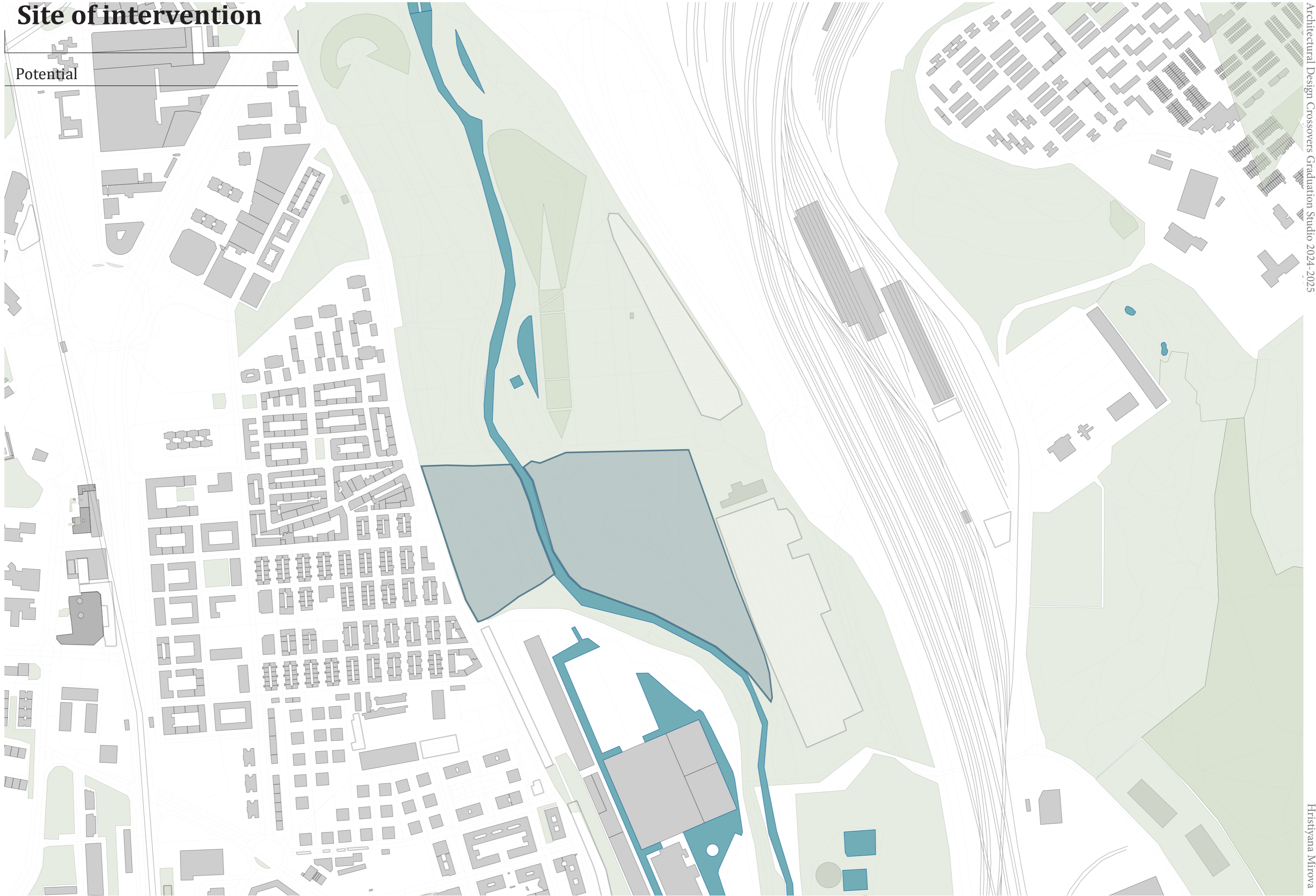
Site of intervention

Potential



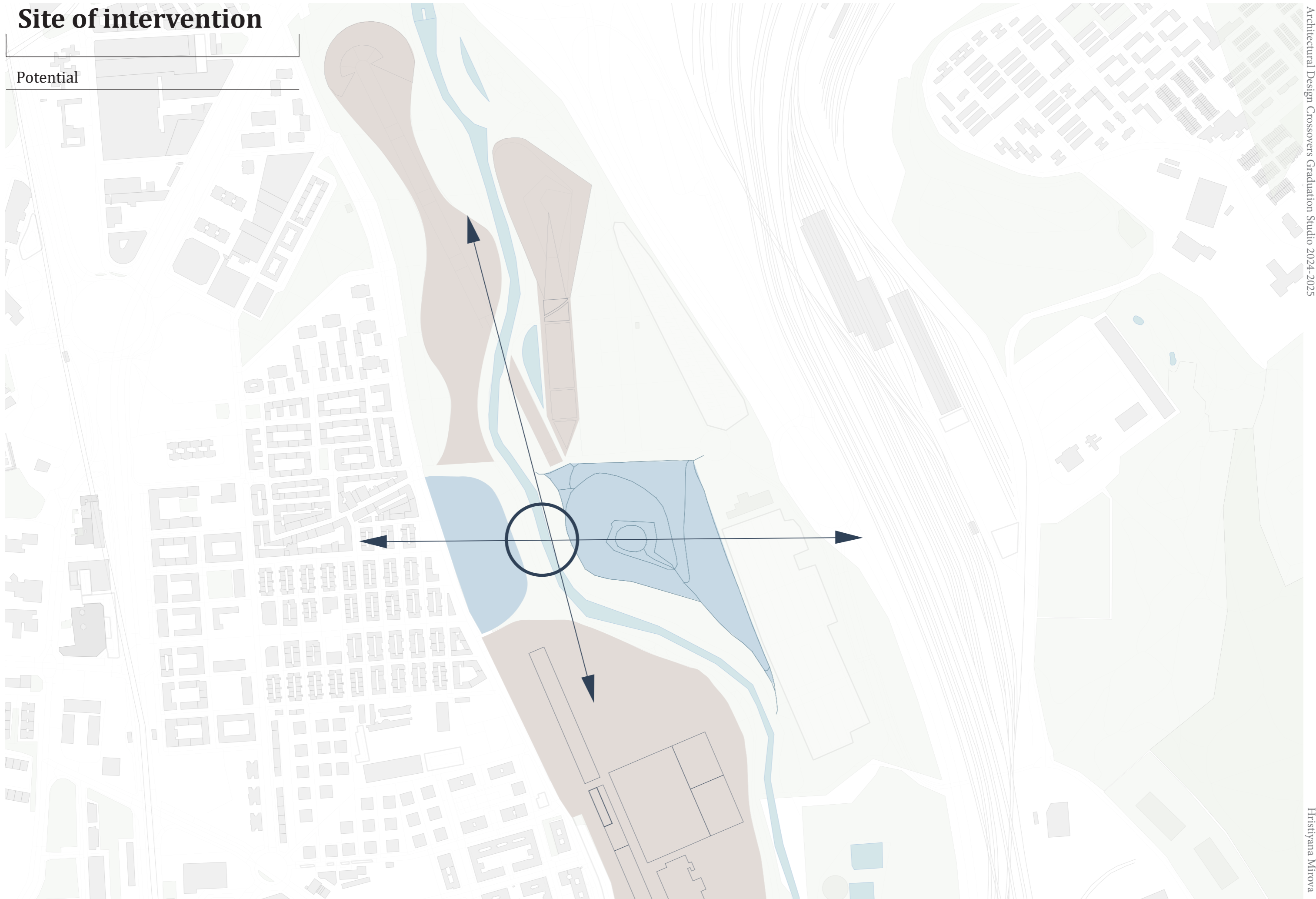
Site of intervention

Potential



Site of intervention

Potential



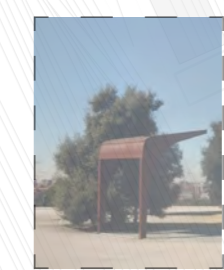
Site of intervention

Spatial function



Site of intervention

Spatial topography



Images: google maps, Street view

Site of intervention Image: by Author

Spatial topography



Image: by Author

Site of intervention

Spatial definition



- Soft boundary - greenery
- Hard boundary - infrastructure
- Hard boundary - fences
- River boundaries
- Optimal space for the installation of pond harvesting systems

Site of intervention

Spatial interaction



Site of intervention

Design intentions



Image: Verdejo, n.d.

Person ----- River

Site of intervention

Design intentions

Madrid beach



Image: 15 C.E.

La Isla del Madrid

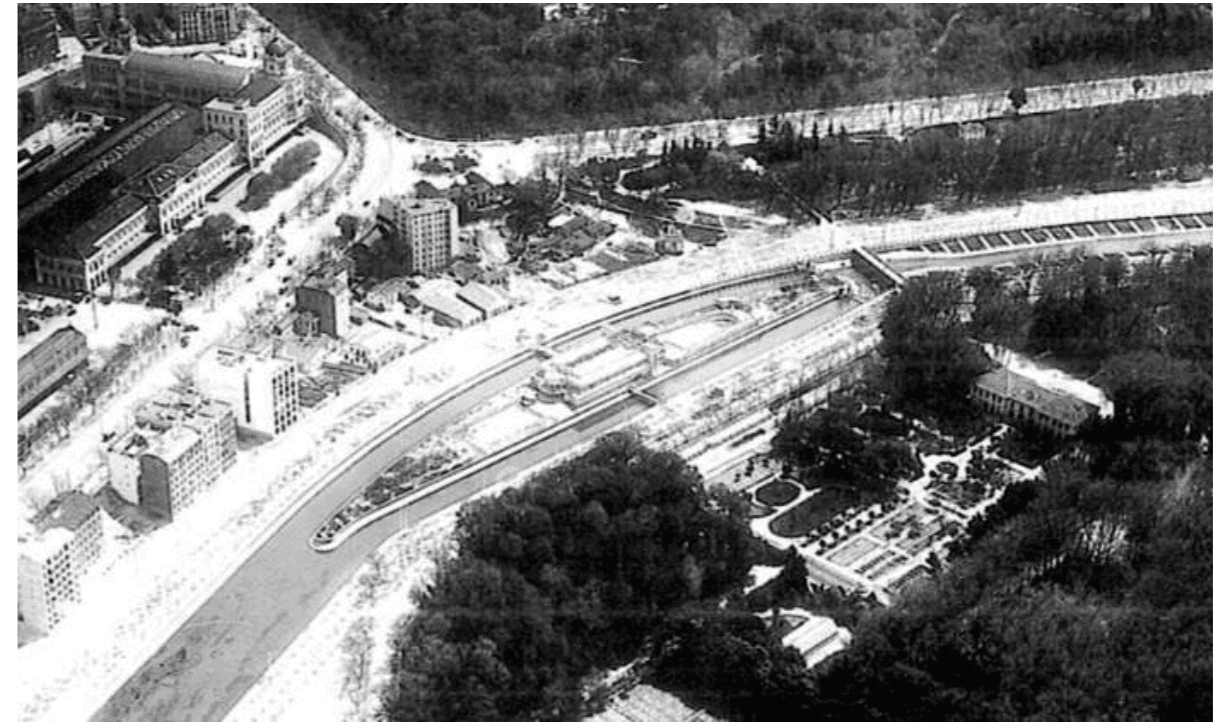


Image: 15 C.E.

Manzanarse landmark

Lost dream?

Site of intervention

Design intentions

Reconnection

Strengthen the relationship between the citizens and the river, the water

Monumentality

Showcase the importance of water, landmark

Transparency

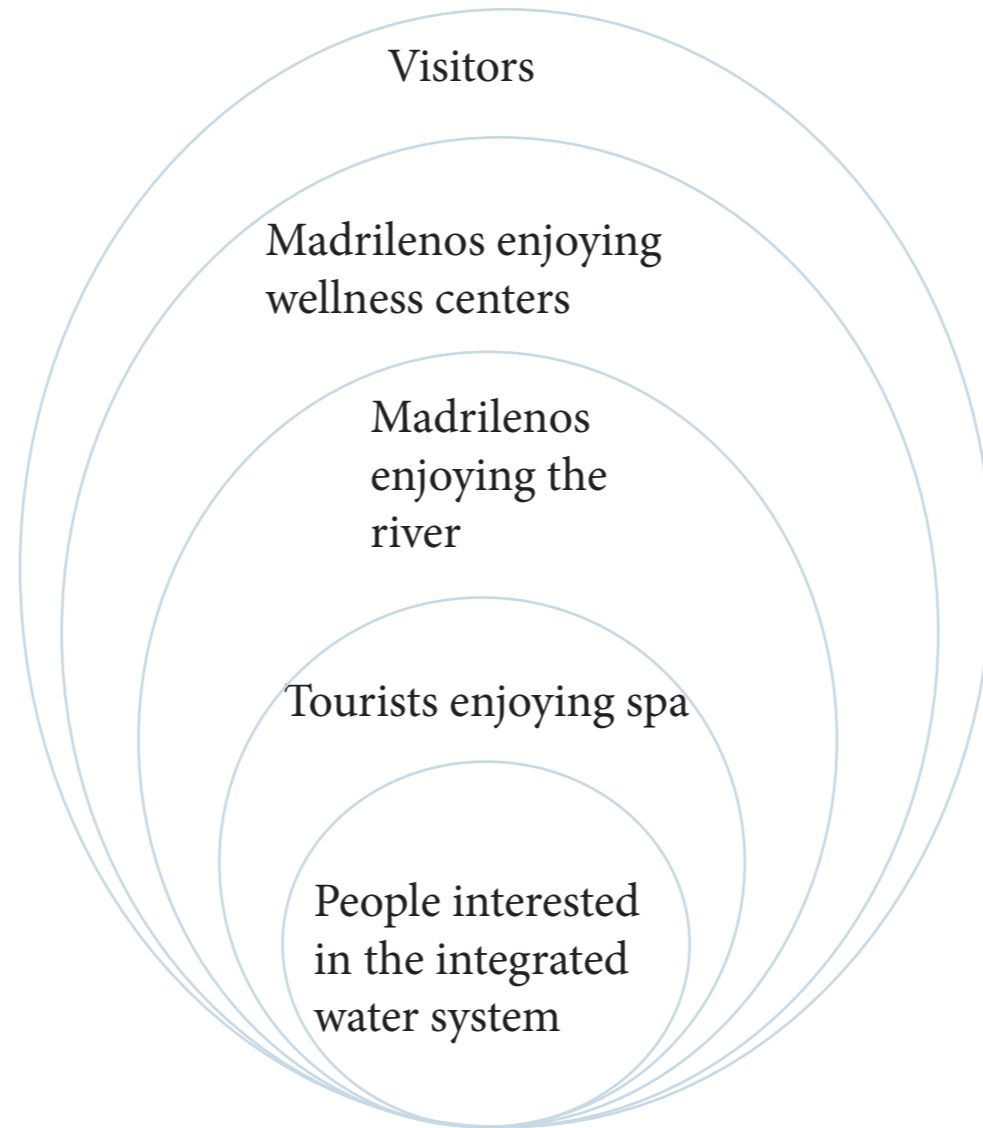
Show the watercycle and transformation

Threshold interplay

Intriguing spatial organization sparking curiosity

Target group

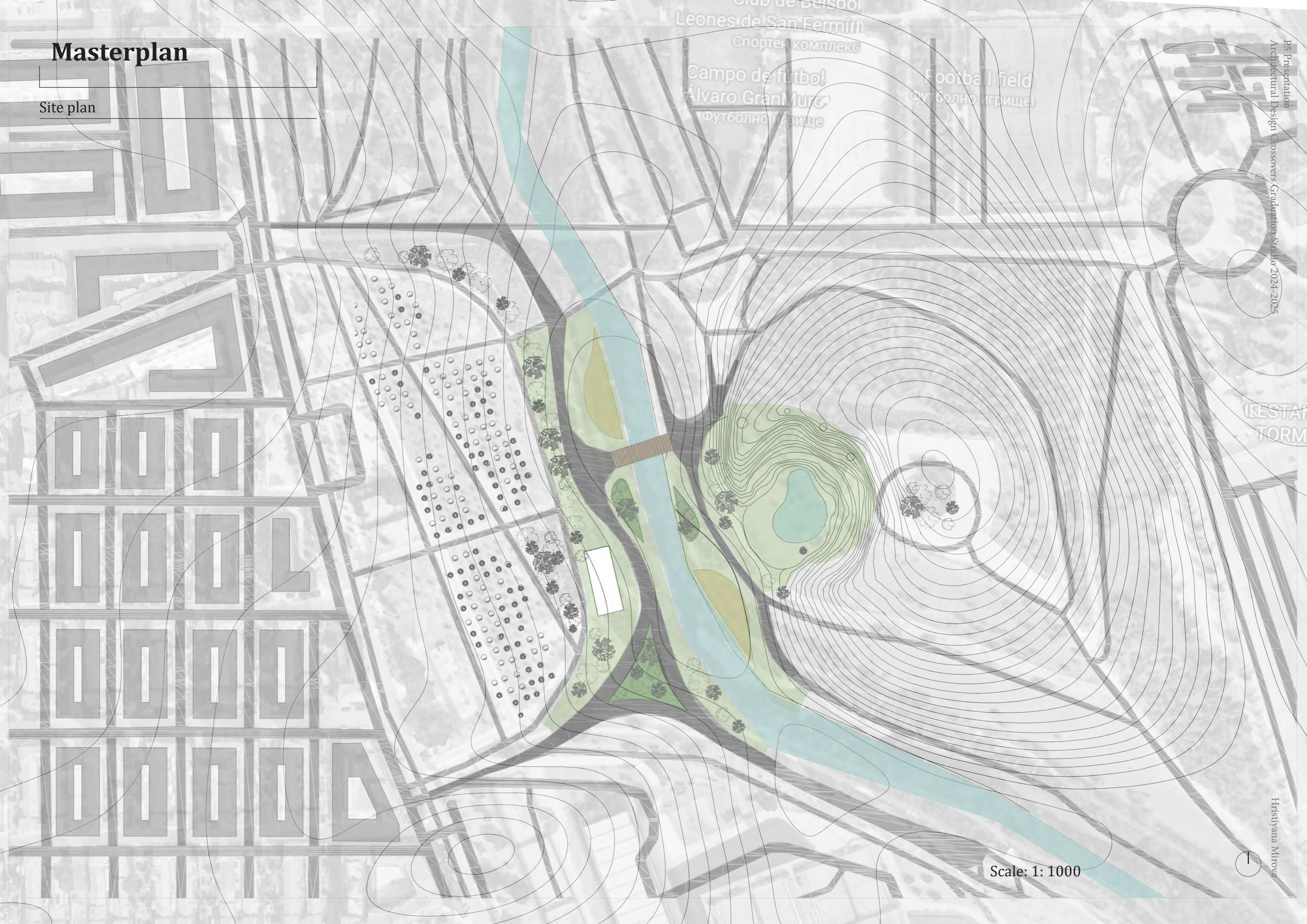
Target group



Masterplan

Masterplan

Site plan



Club de Fútbol
Leones de San Fermín
Спортен комплекс
Campo de fútbol
Alvaro Gran Murgo
Футболно игрище

Football field
Футболно игрище

RESTAURANT
FORM

Scale: 1: 1000

Masterplan

Site plan



River beach

Technical

Wellness and leisure

Water garden

Water garden

Educational

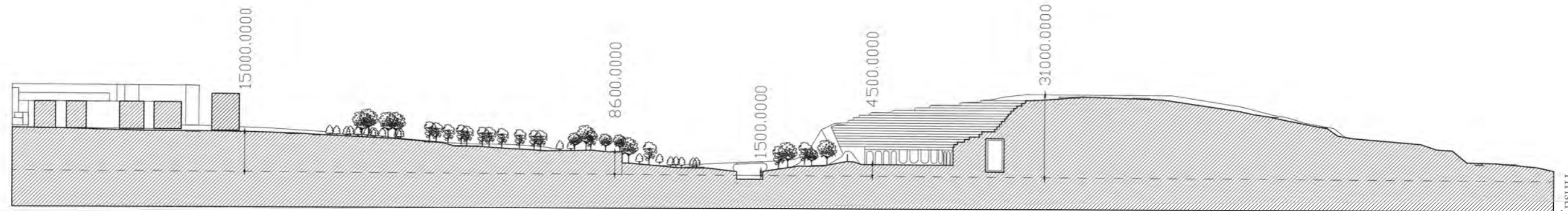
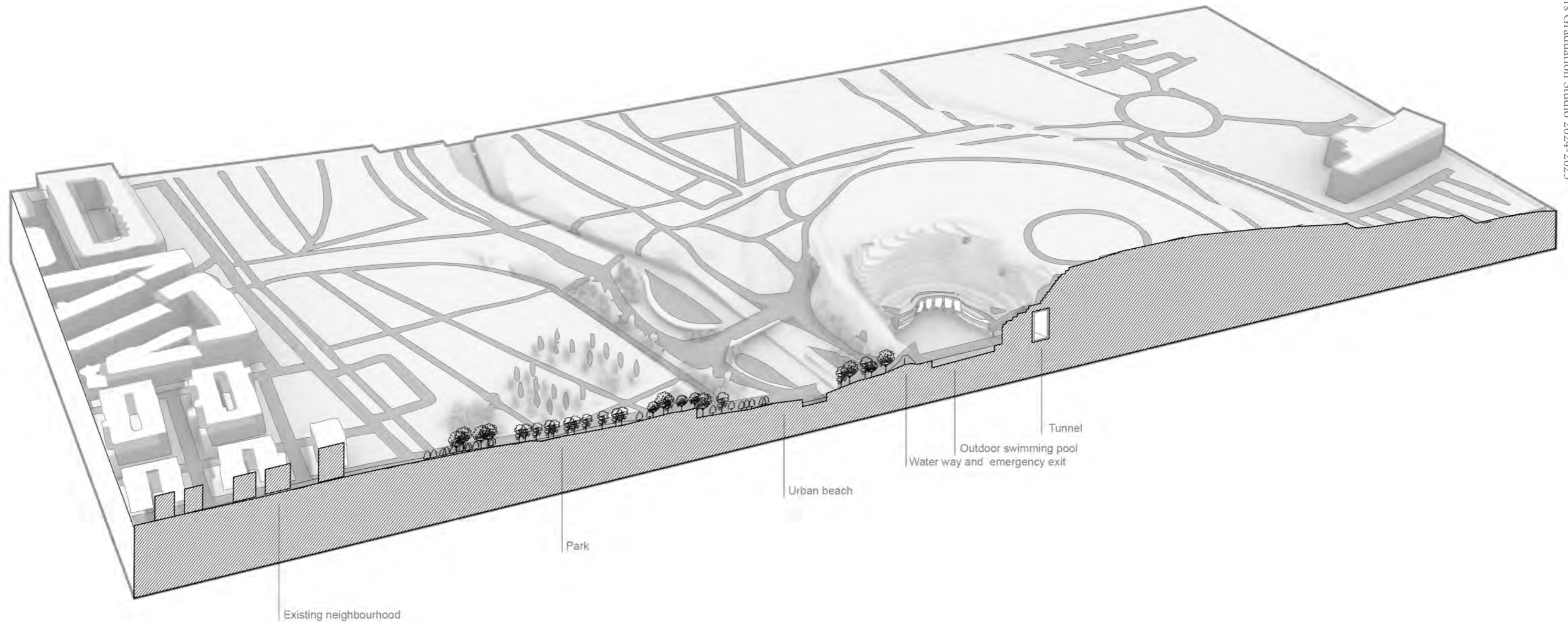
River beach

Urban plan
Scale: 1: 1000



Masterplan

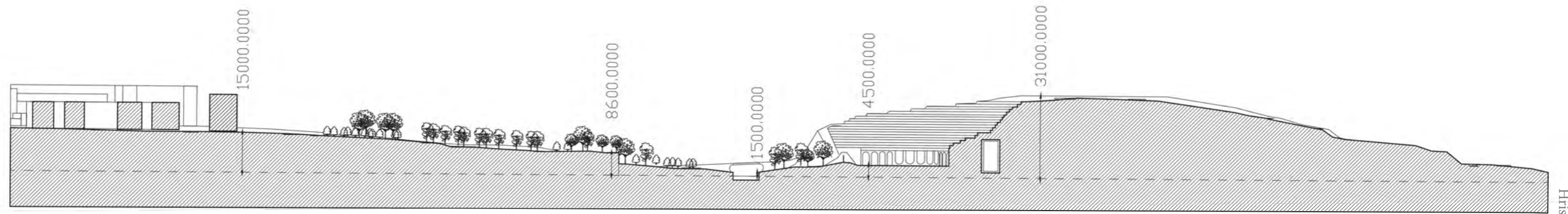
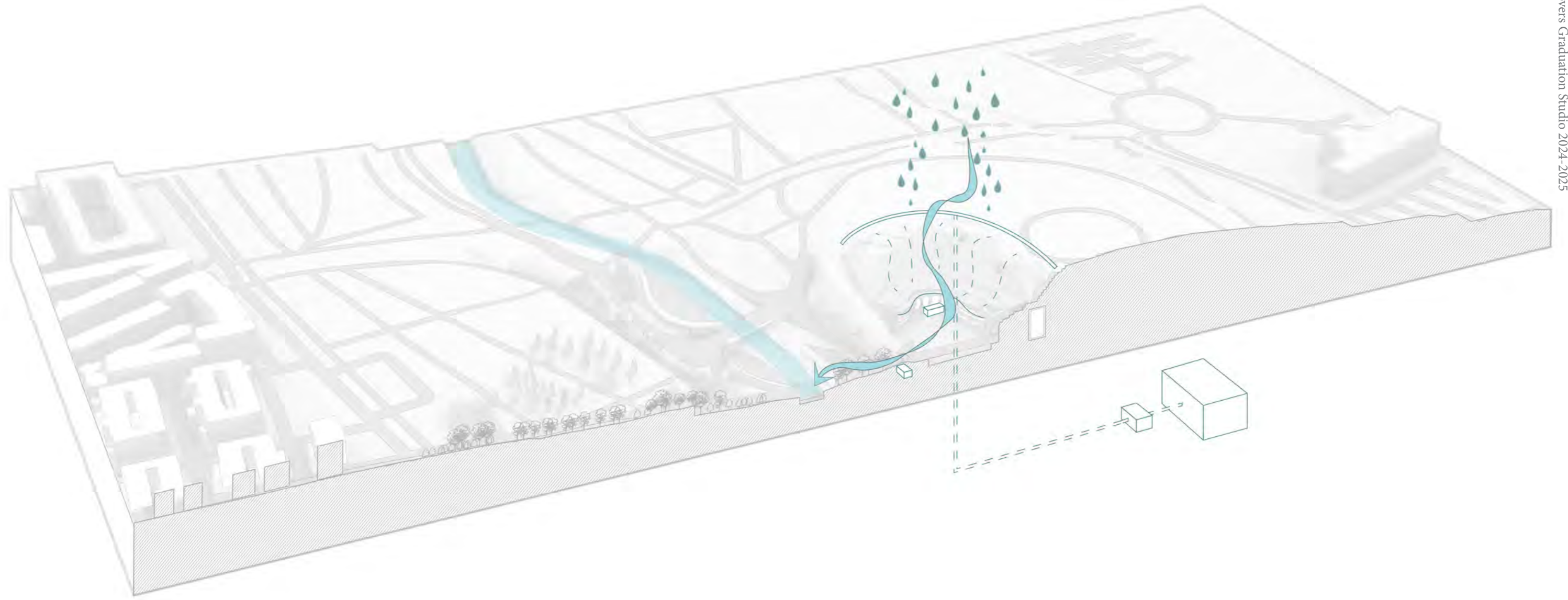
Section



Section urban plan
Scale: 1:1000

Masterplan

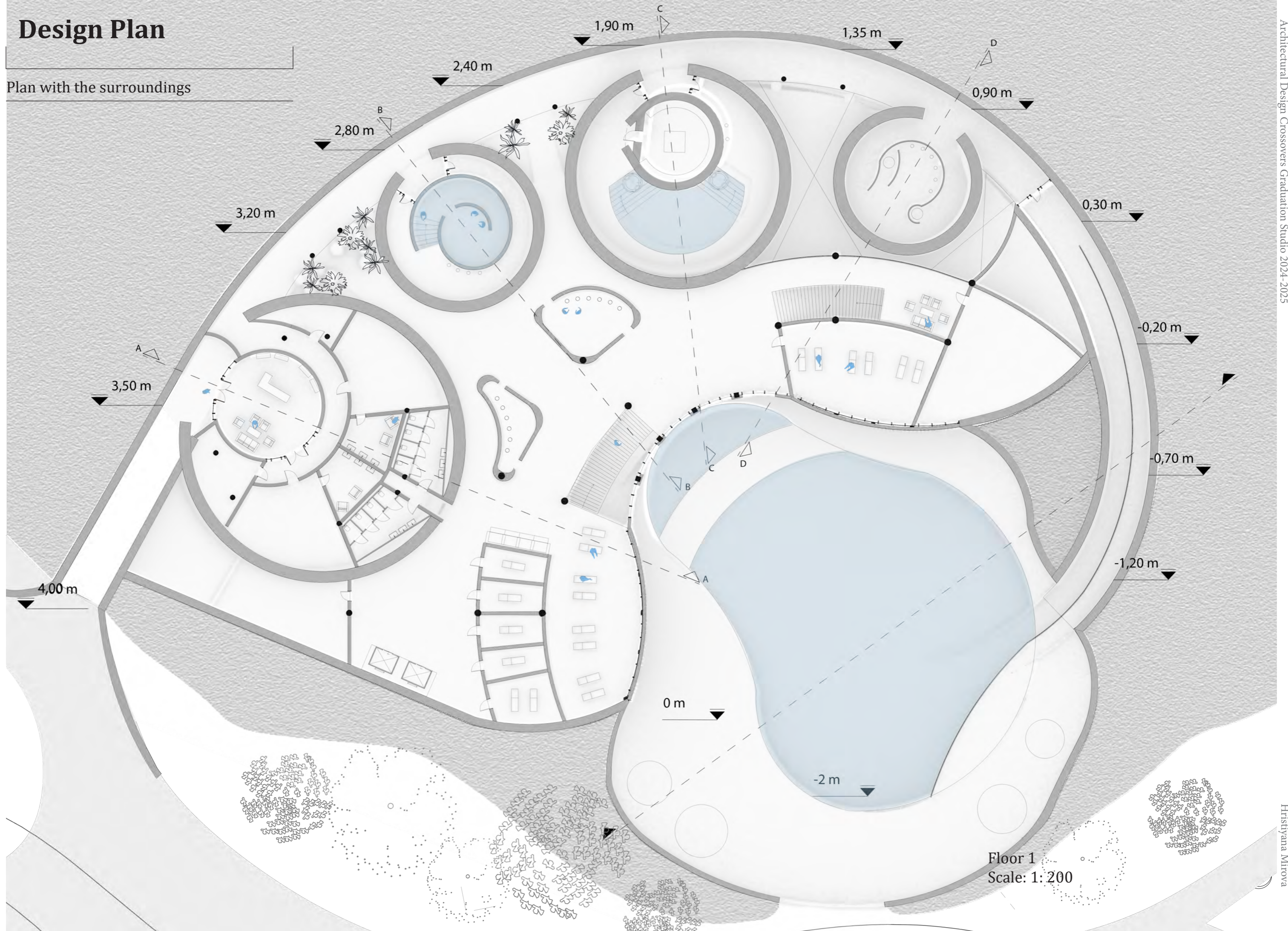
Water cycle



Design

Design Plan

Plan with the surroundings



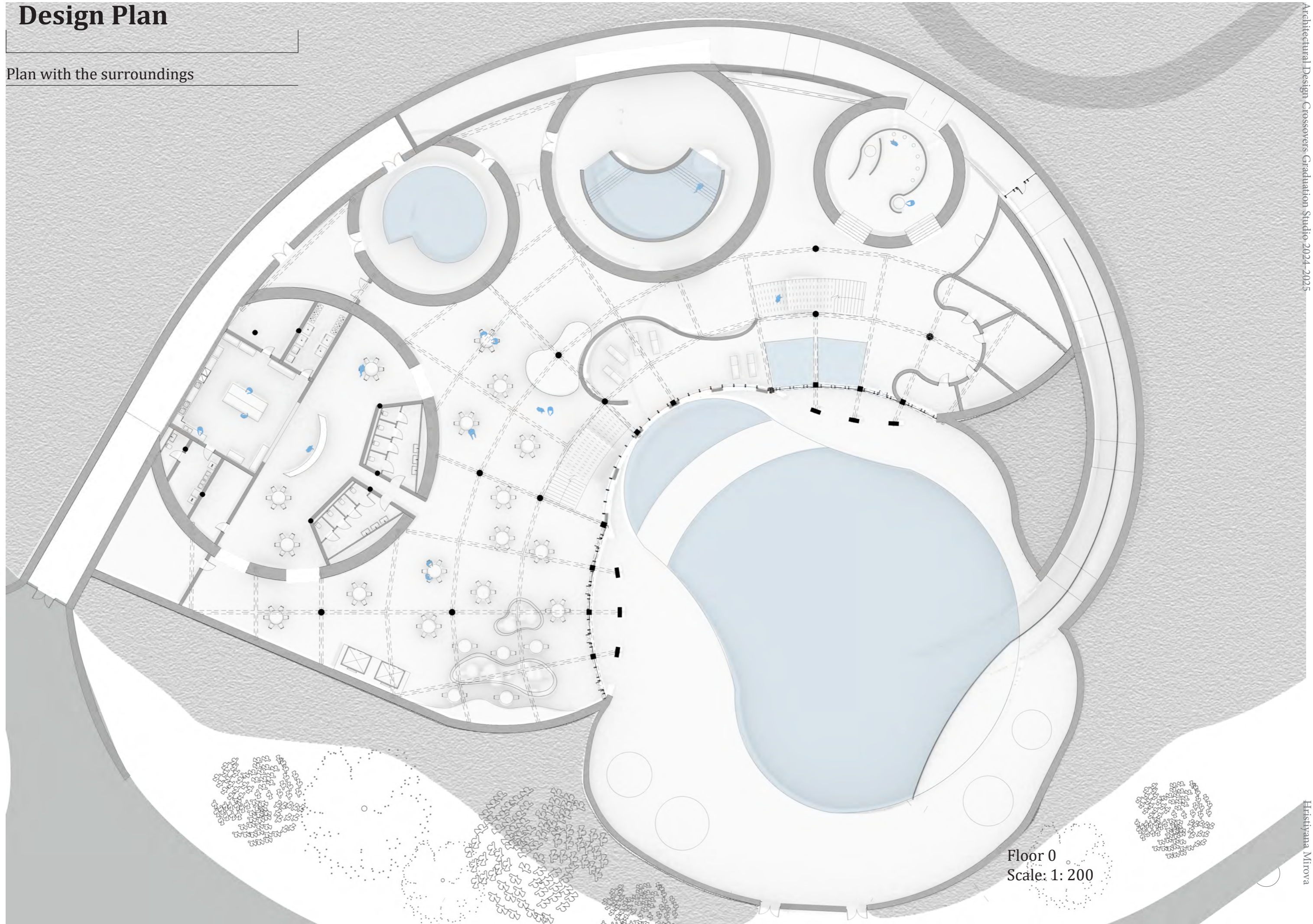
Floor 1
Scale: 1:200

Design Plan



Design Plan

Plan with the surroundings

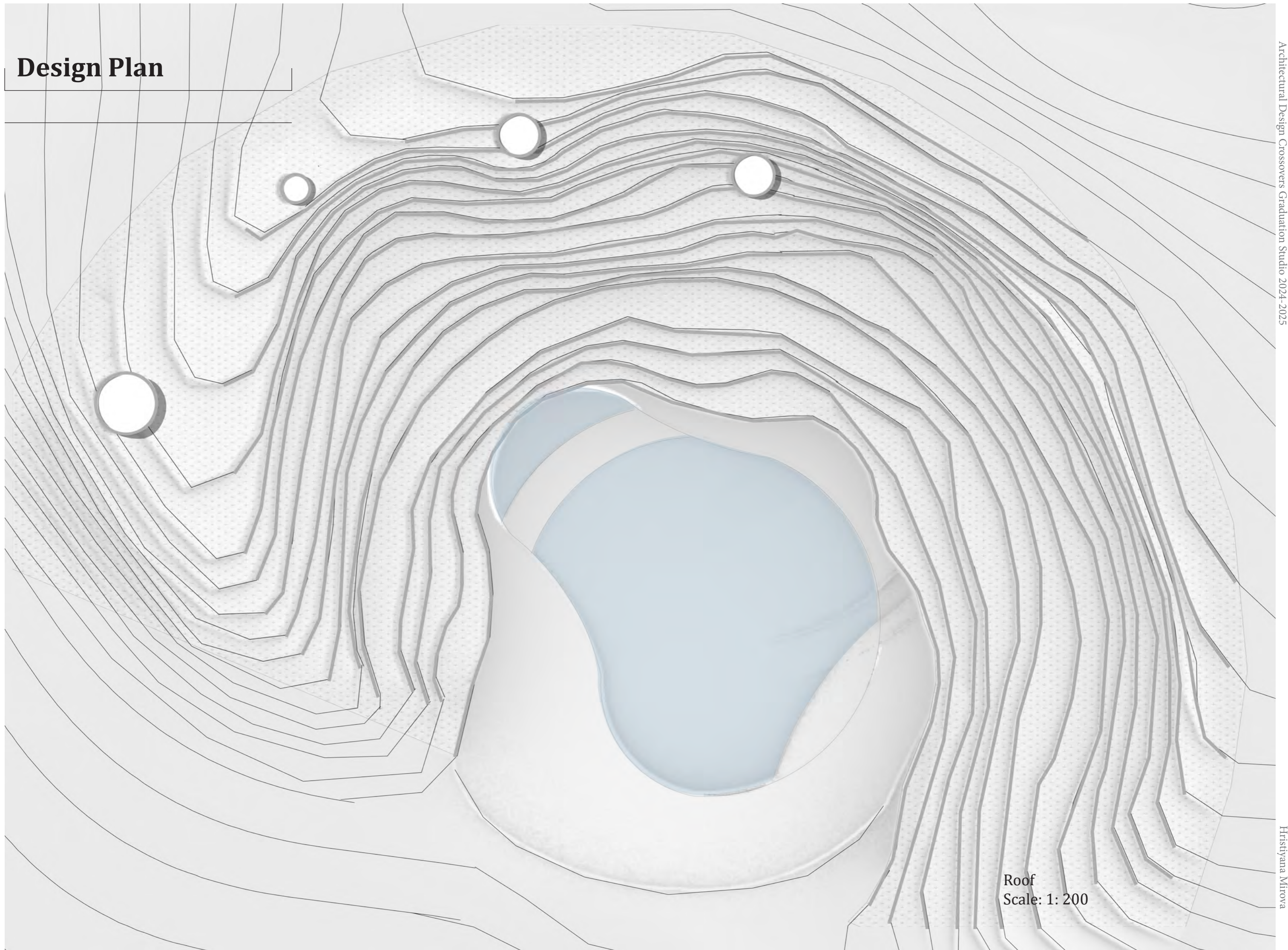


Floor 0
Scale: 1:200

Design Plan



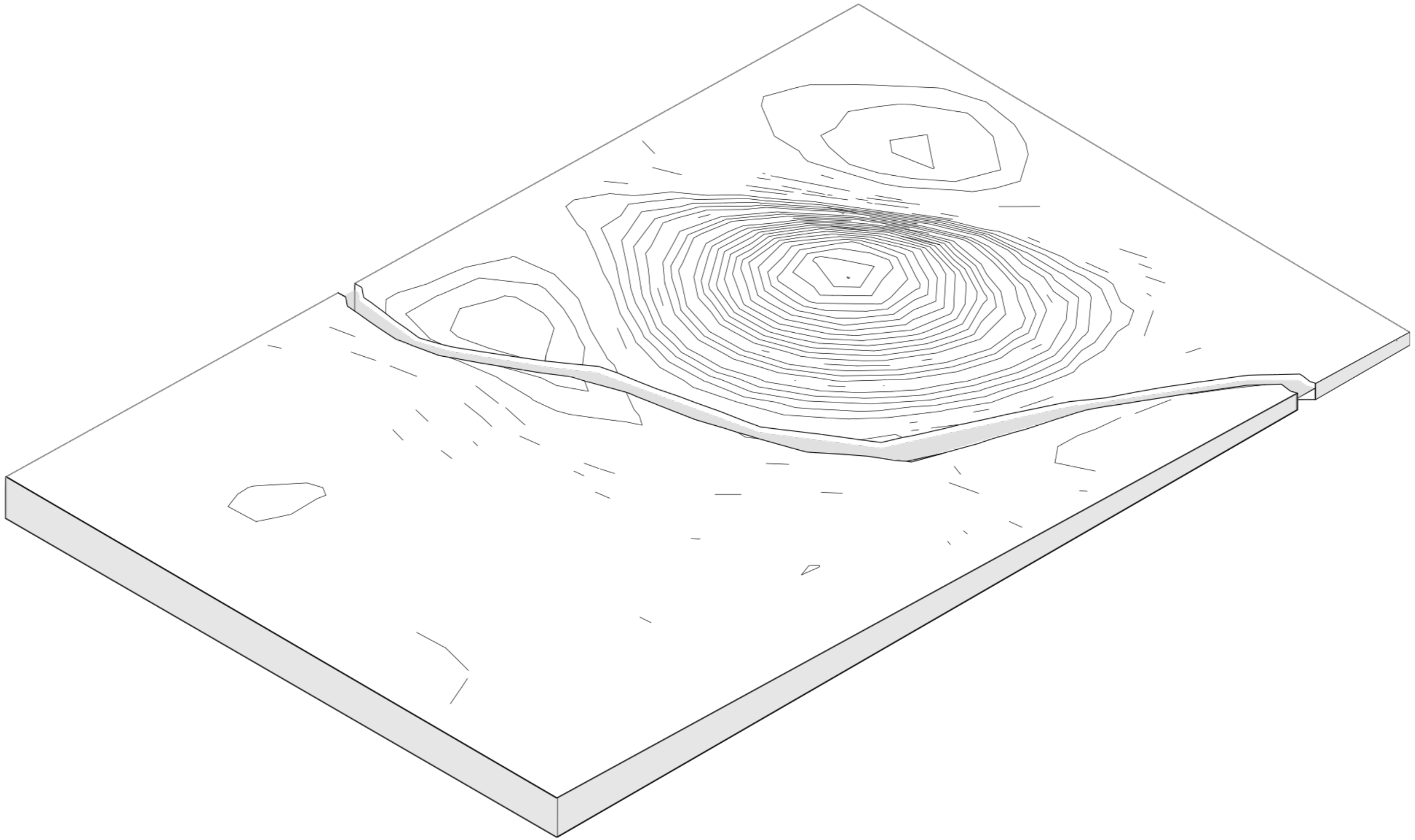
Design Plan



Roof
Scale: 1: 200

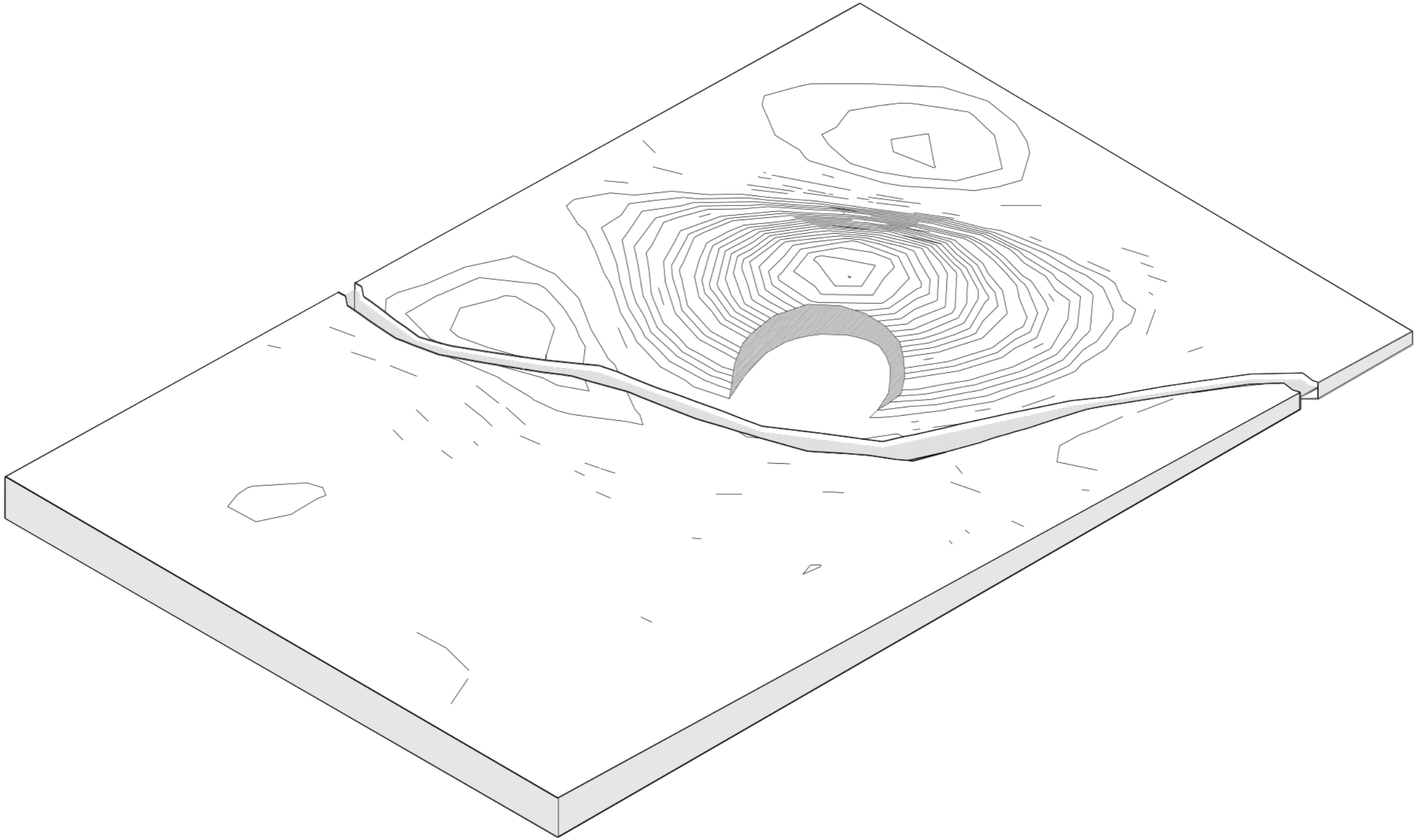
Changing existing context

Construction sequence



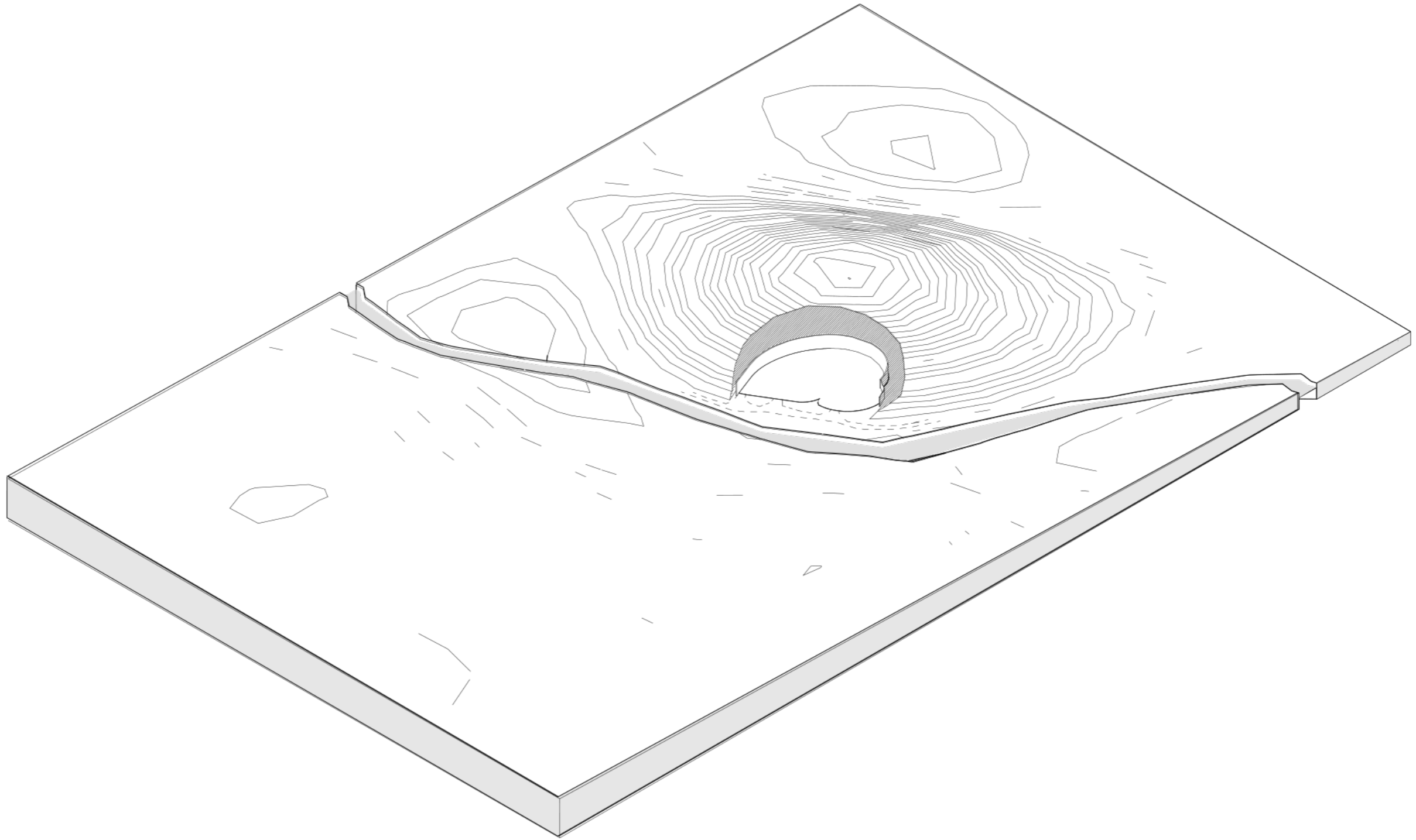
Changing existing context

Construction sequence



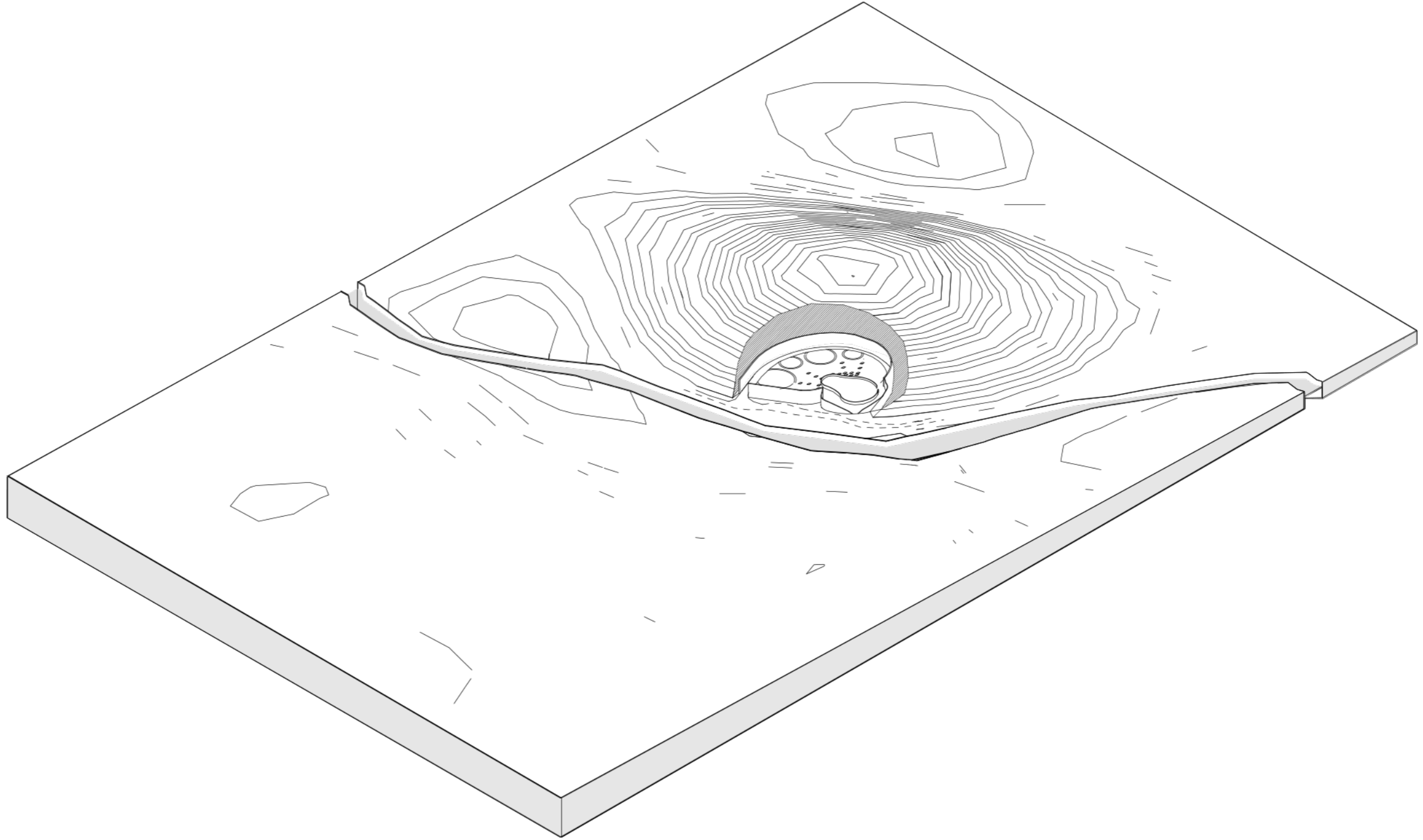
Changing existing context

Construction sequence



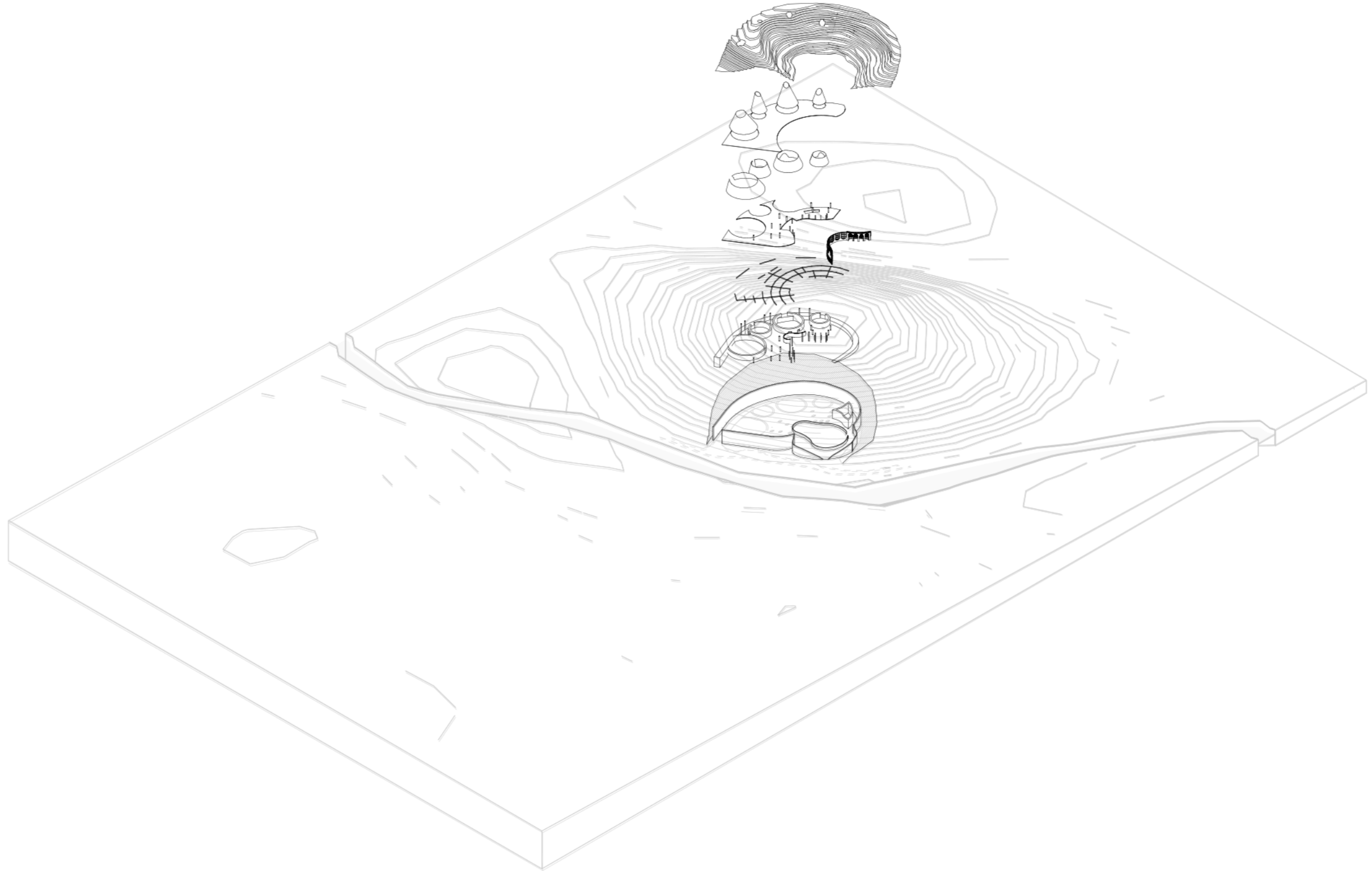
Changing existing context

Construction sequence



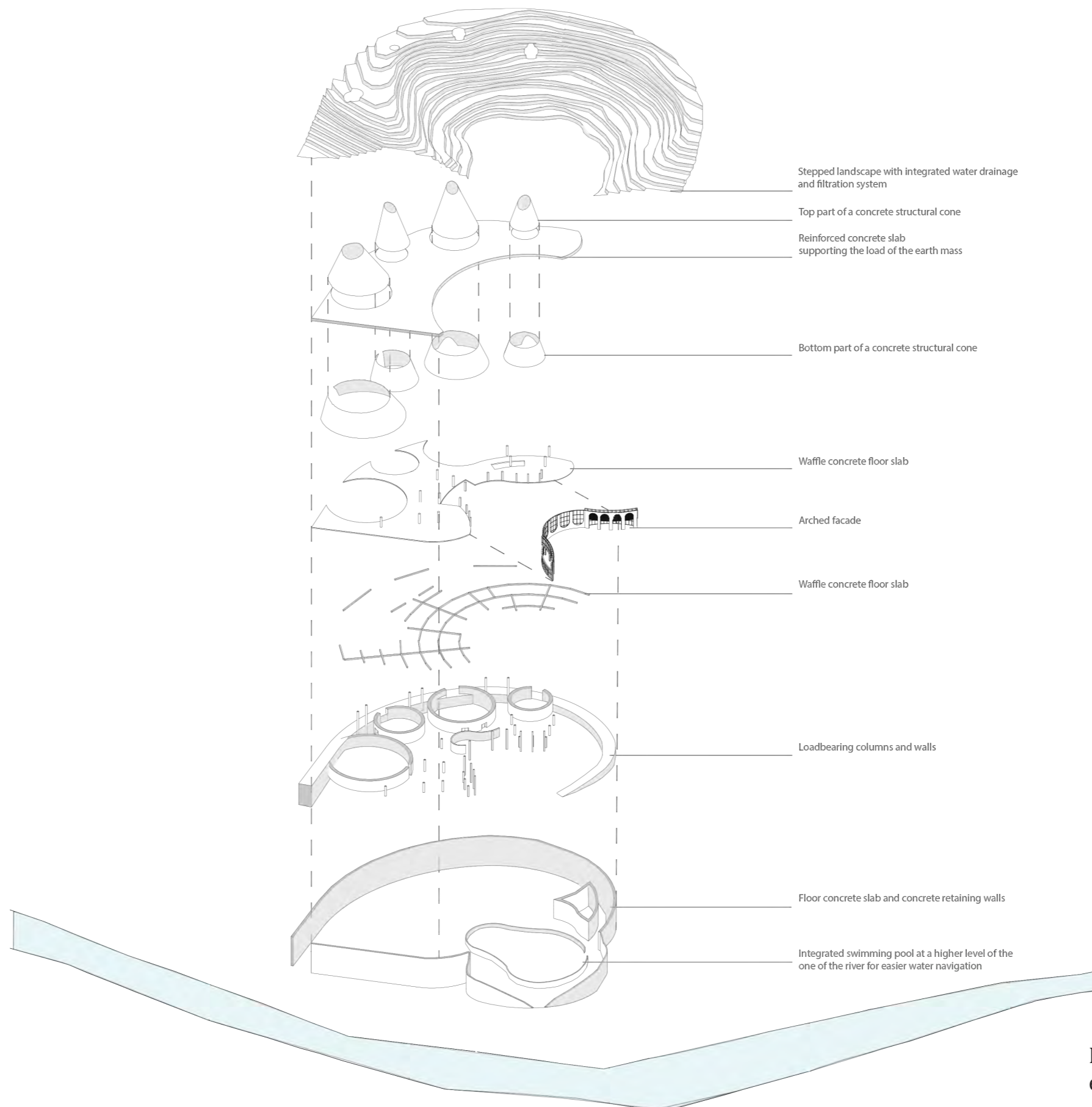
Changing existing context

Construction sequence



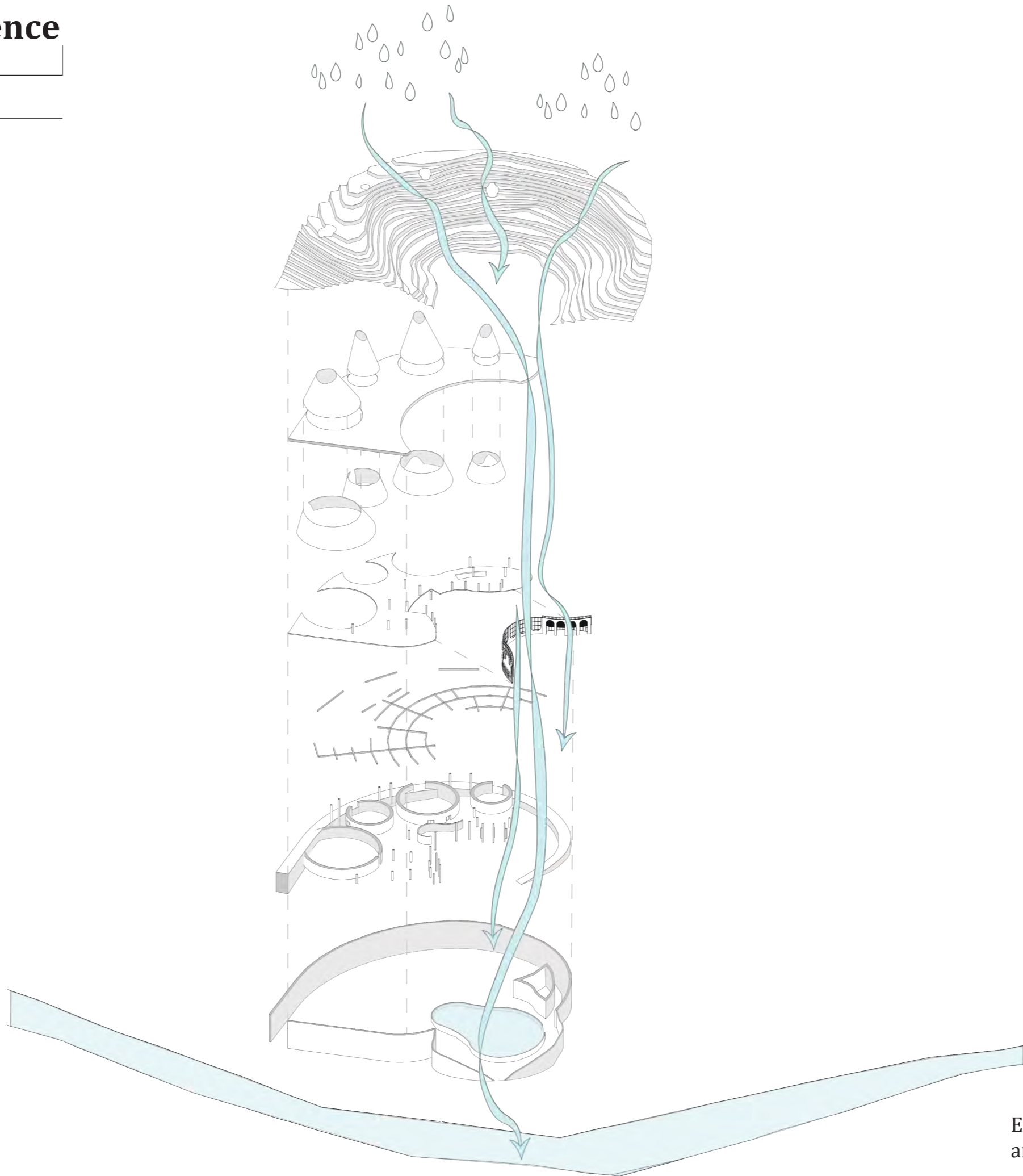
Construction sequence

Structural elements



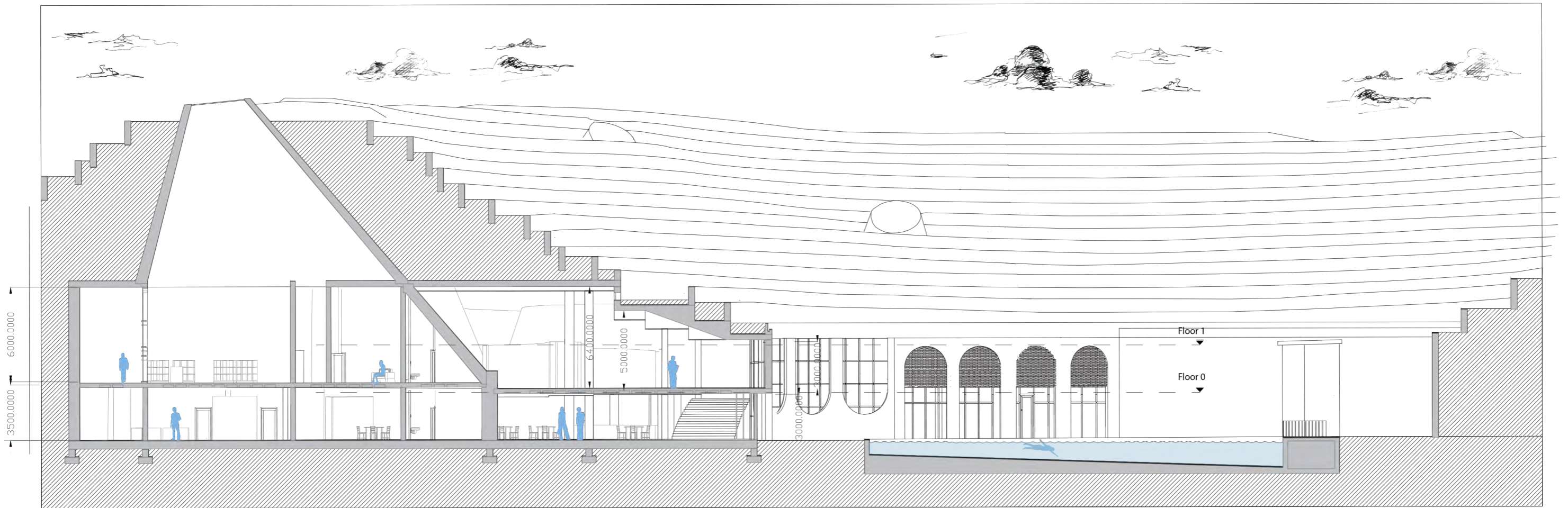
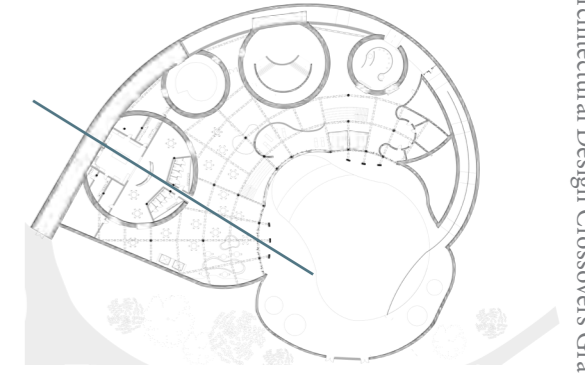
Construction sequence

Water cycle



Exploded view of structure and water connection

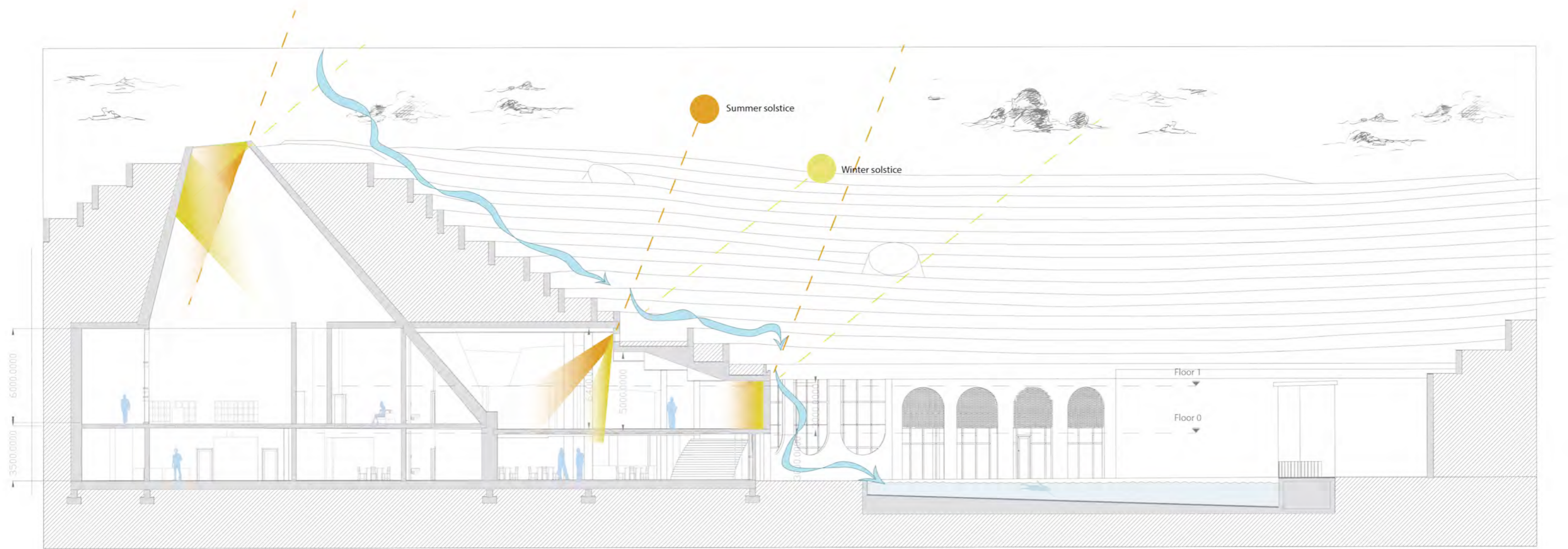
Climate design



Section A-A
Scale: 1: 200

Climate design

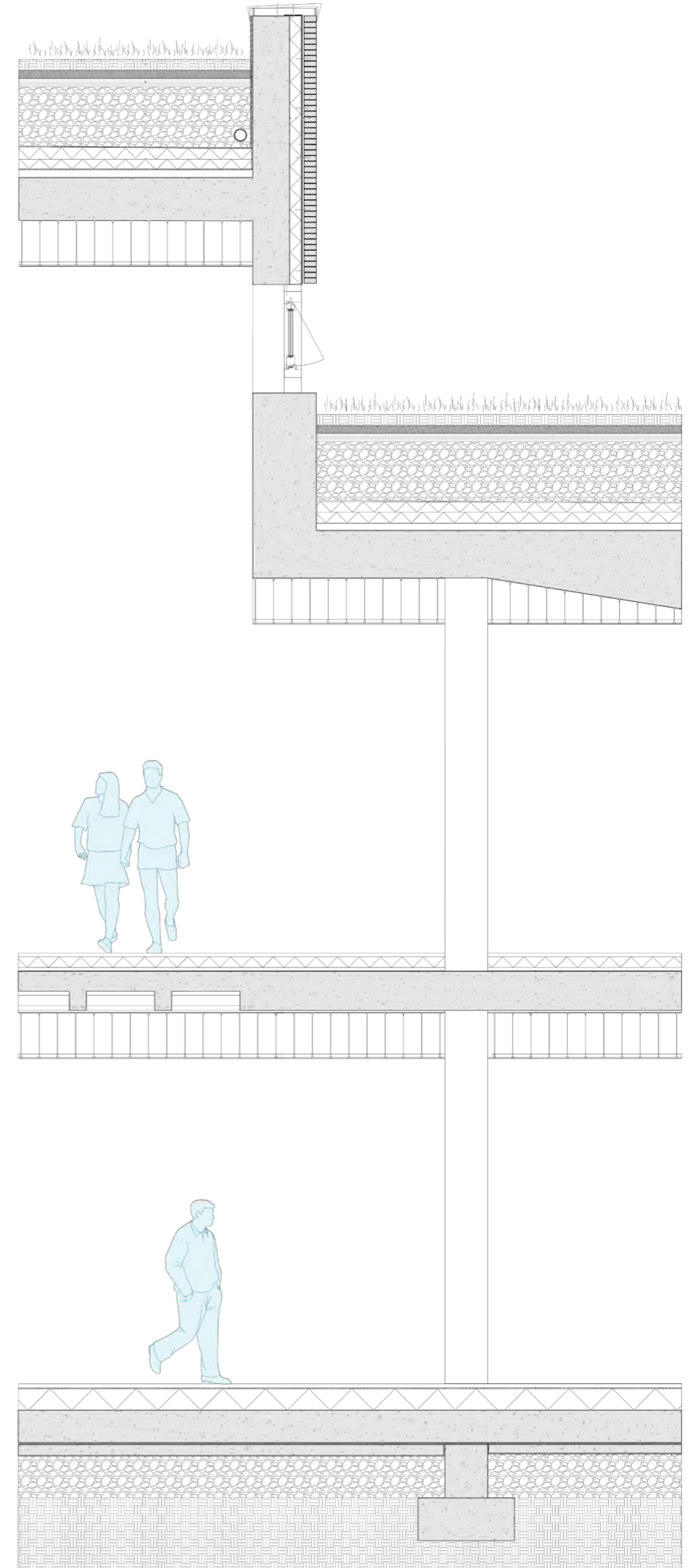
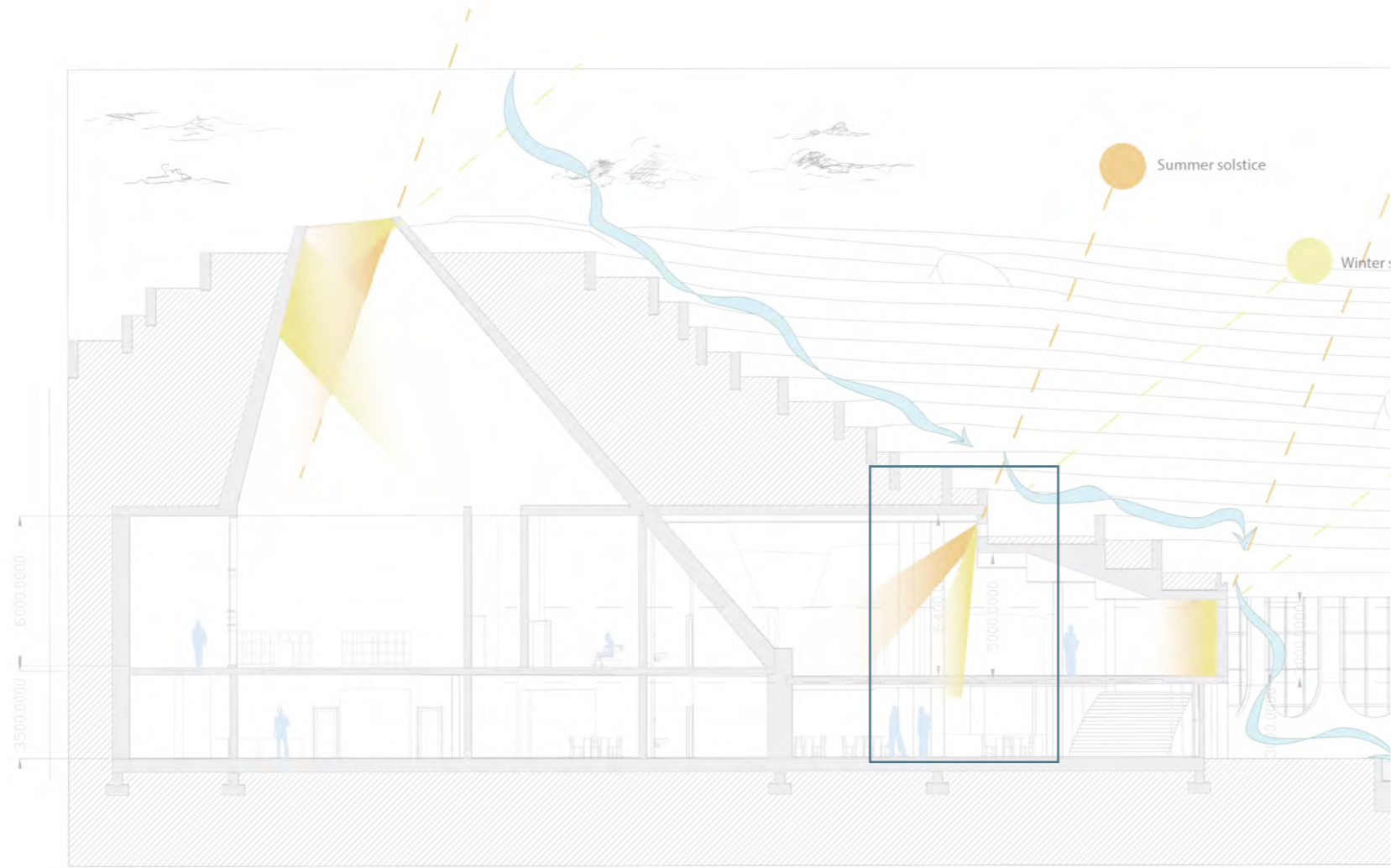
Sun path



Section A-A
Sun path diagram

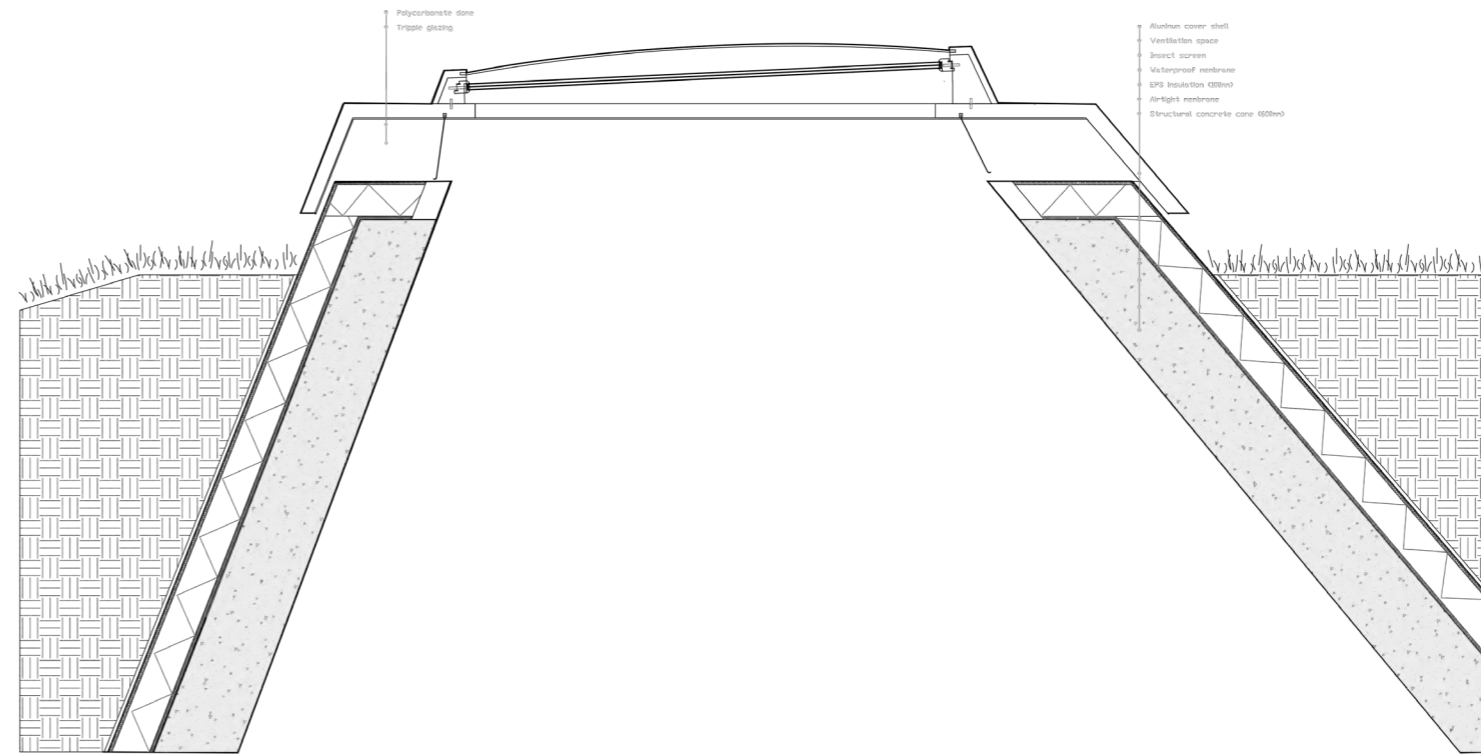
Facade fragment

Relation interior exterior

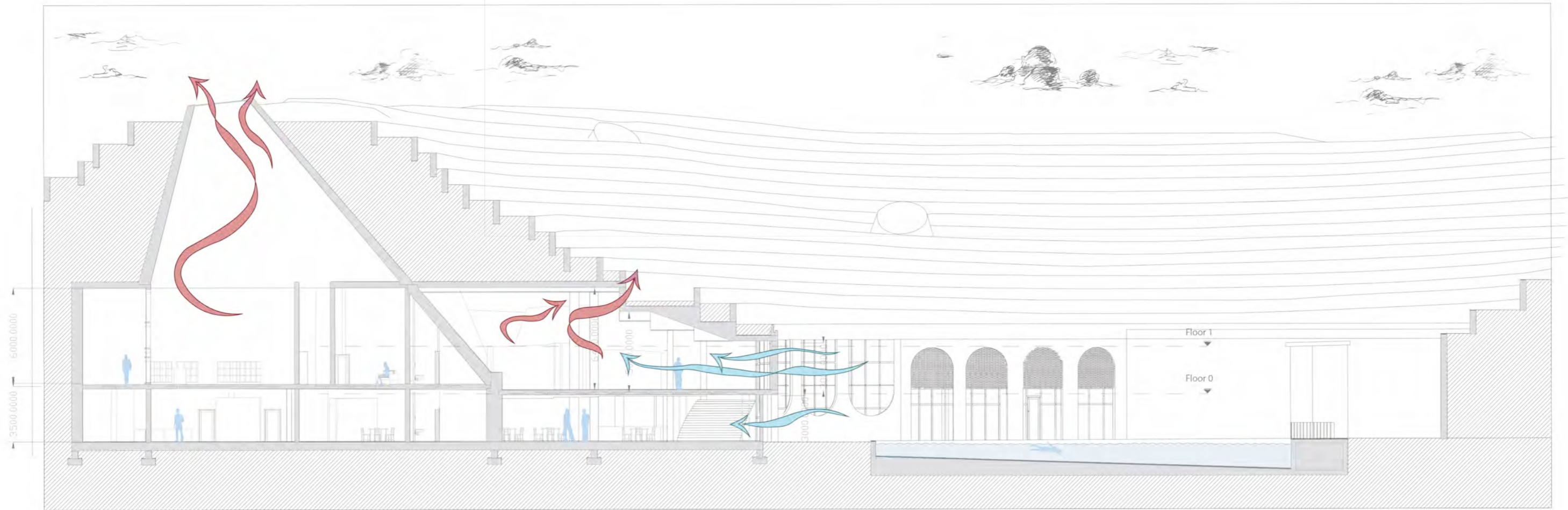


Climate design

Ventilation



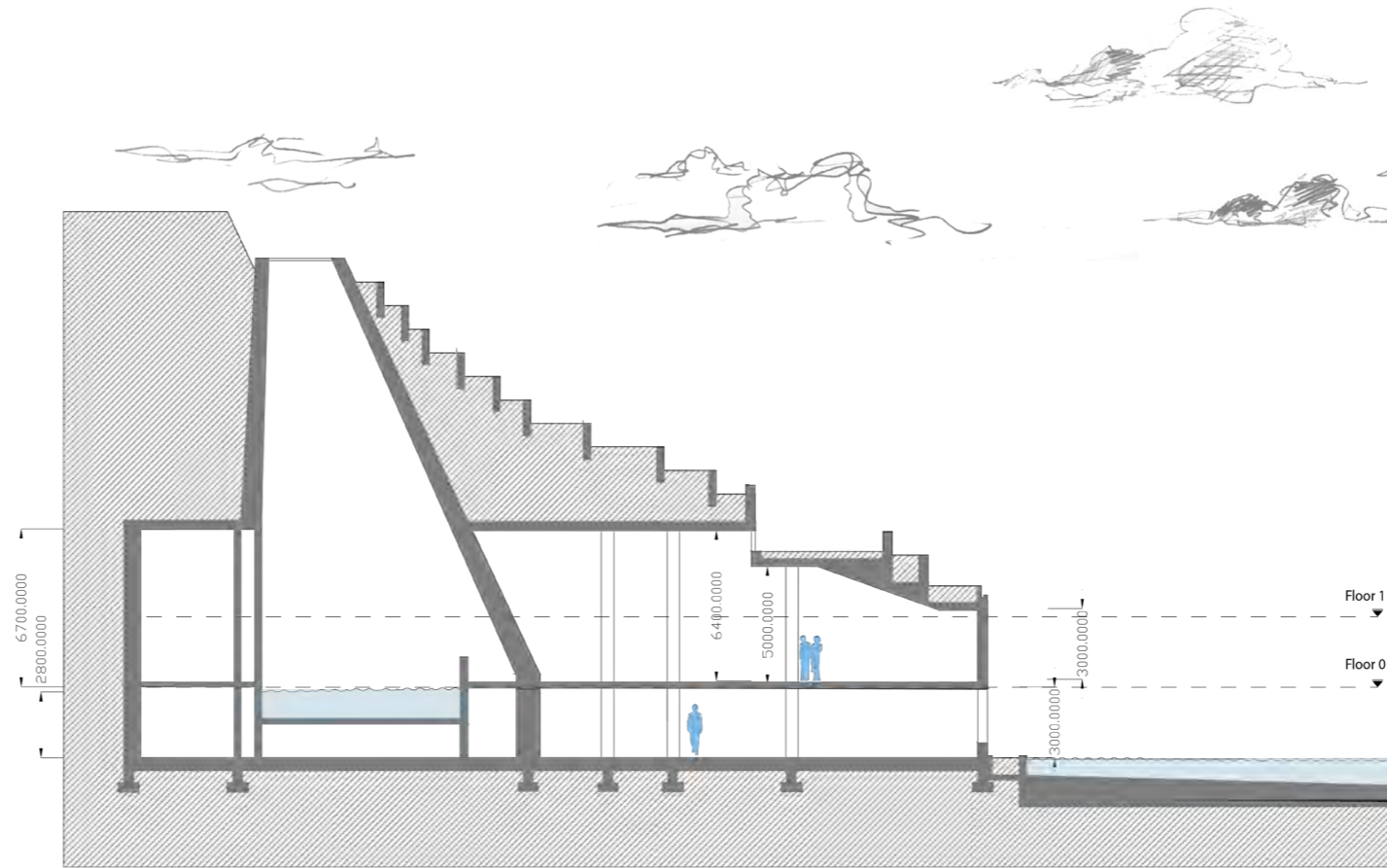
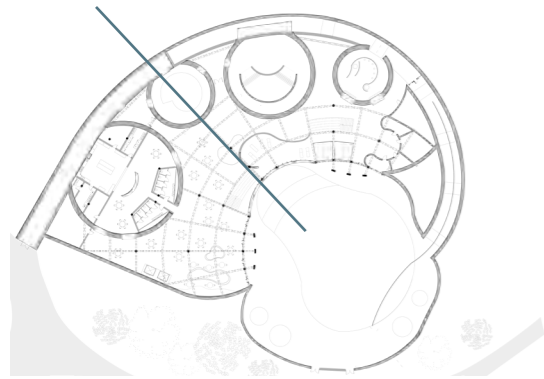
Detail lightwell



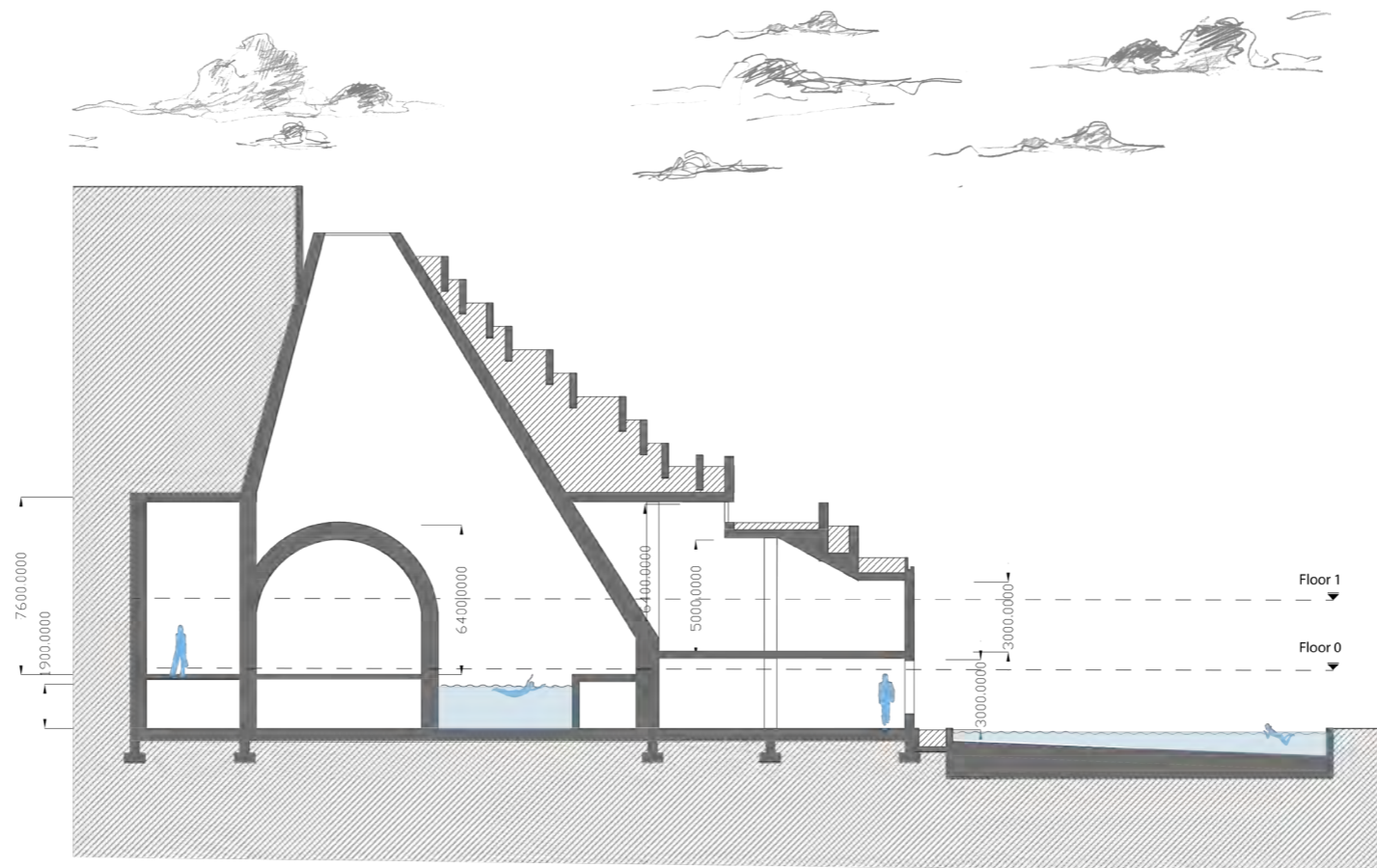
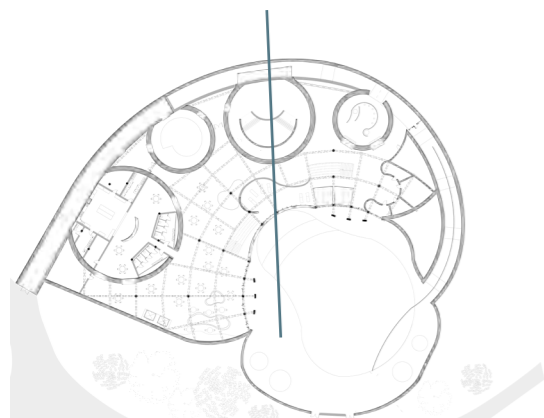
Section A-A
Ventilation diagram

Design Structure

Volumetric relationship



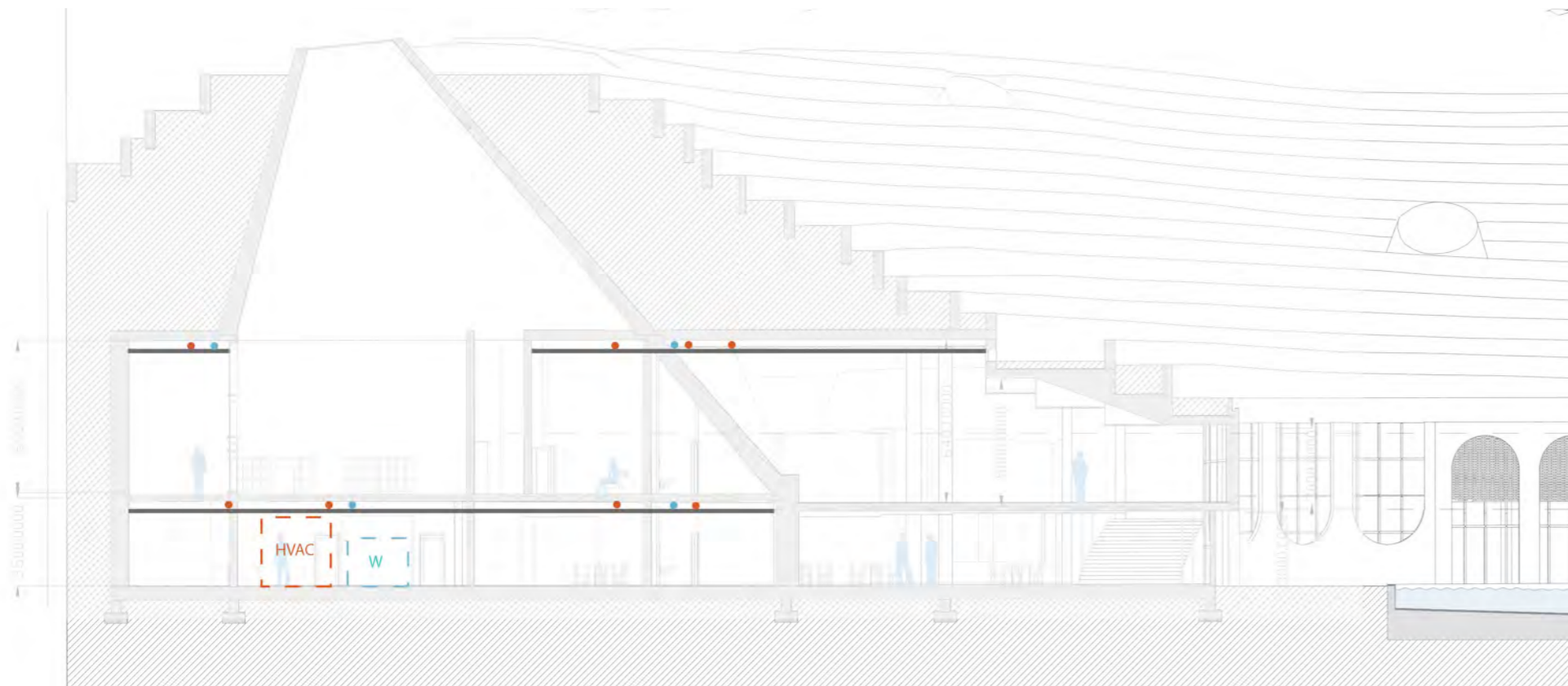
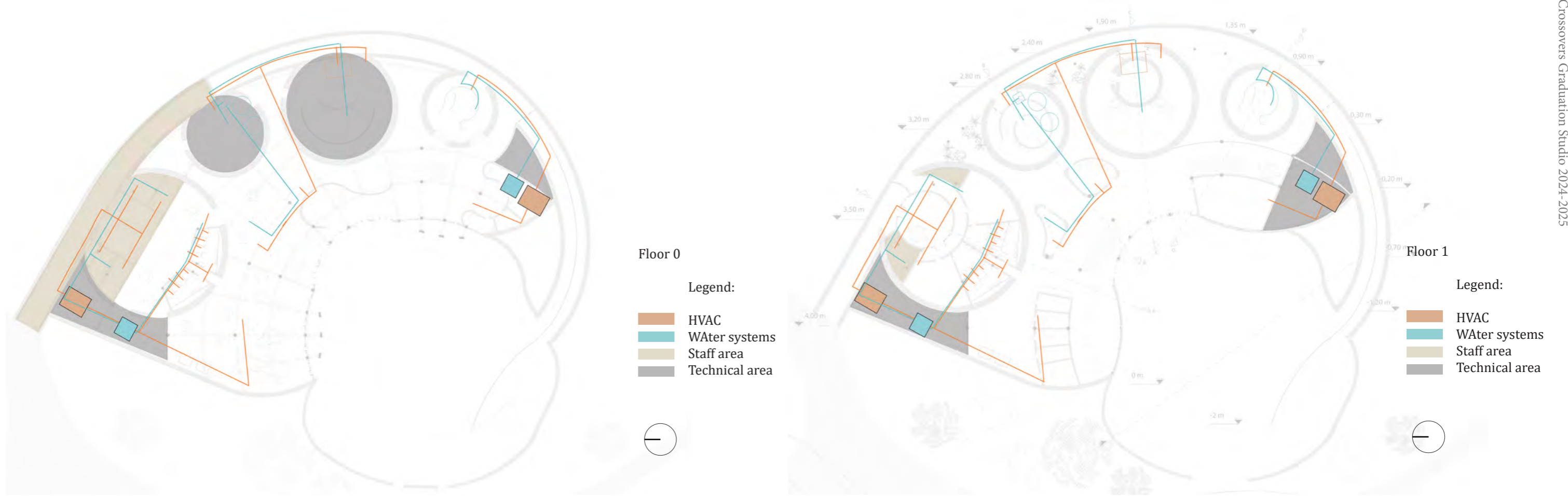
Section B-B
Scale: 1: 200



Section C-C
Scale: 1: 200

Climate design

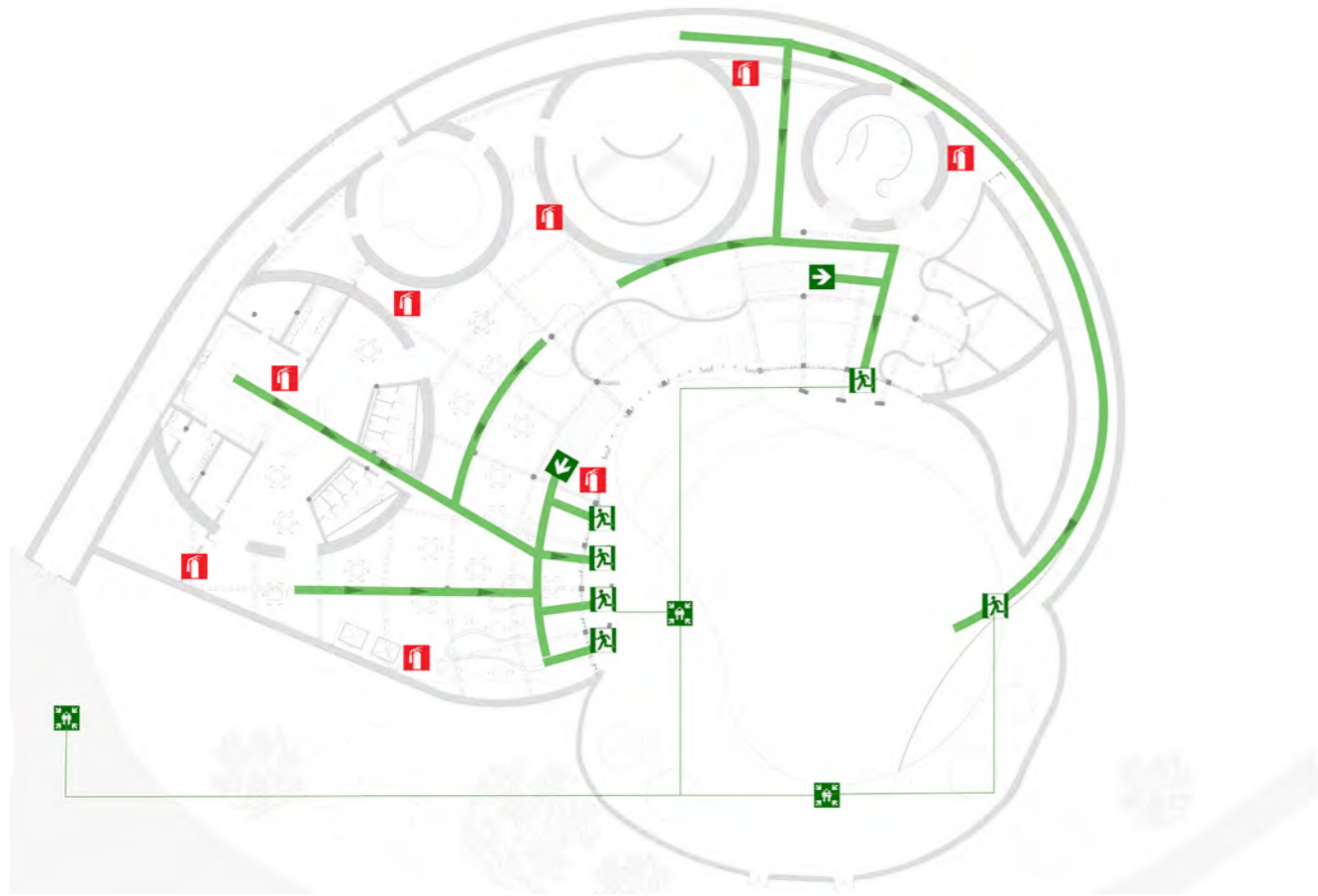
HVAC And water systems



Section A-A
HVAC and water system scheme





Fire evacuation

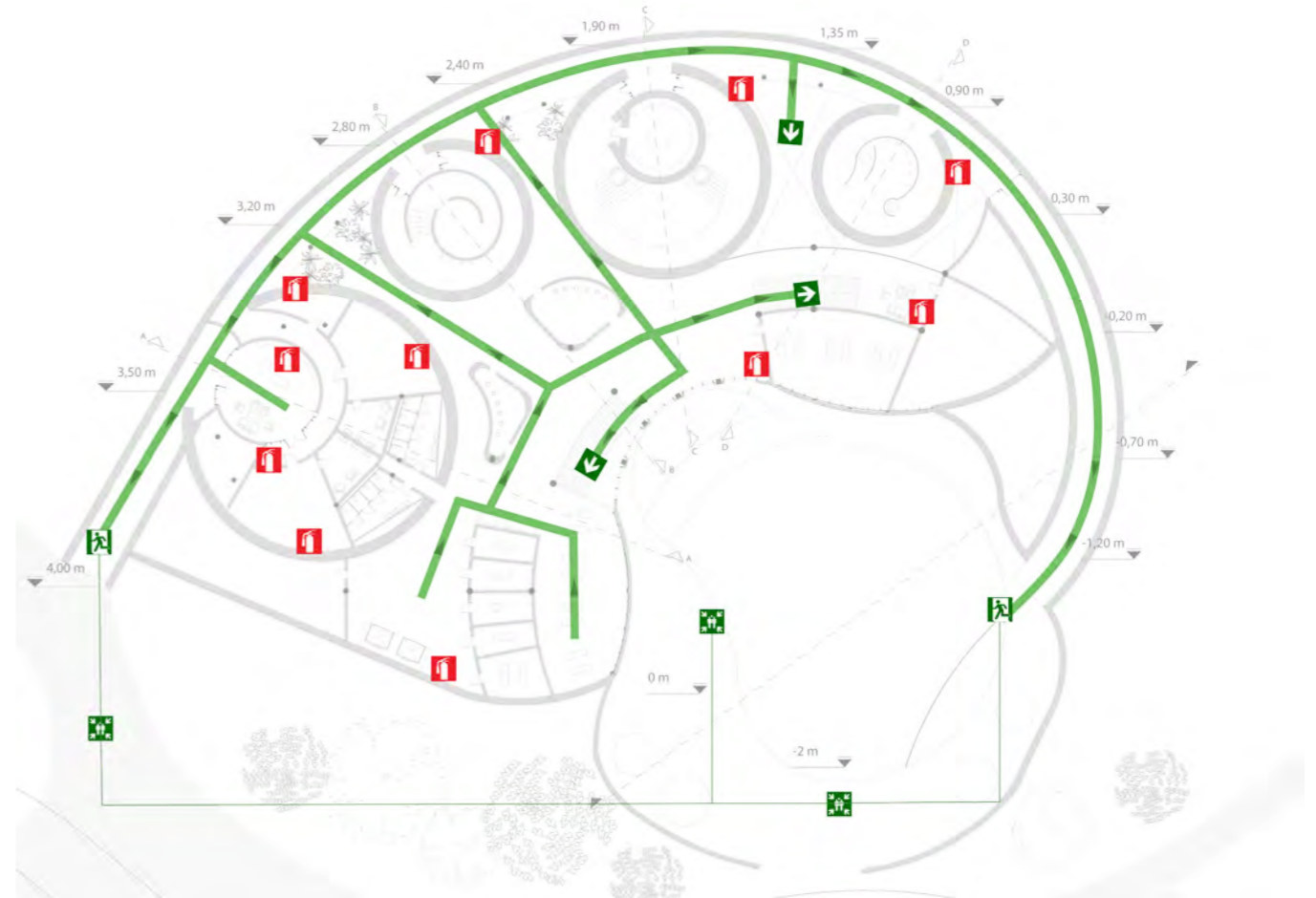
Plan



Floor 0





Legend:

-  Fire Extinguisher
-  Escape route
-  Exit
-  Assembly point



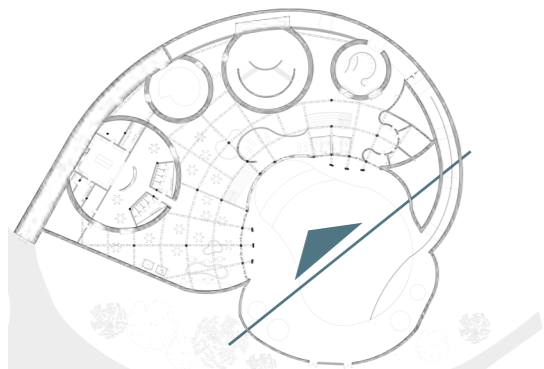
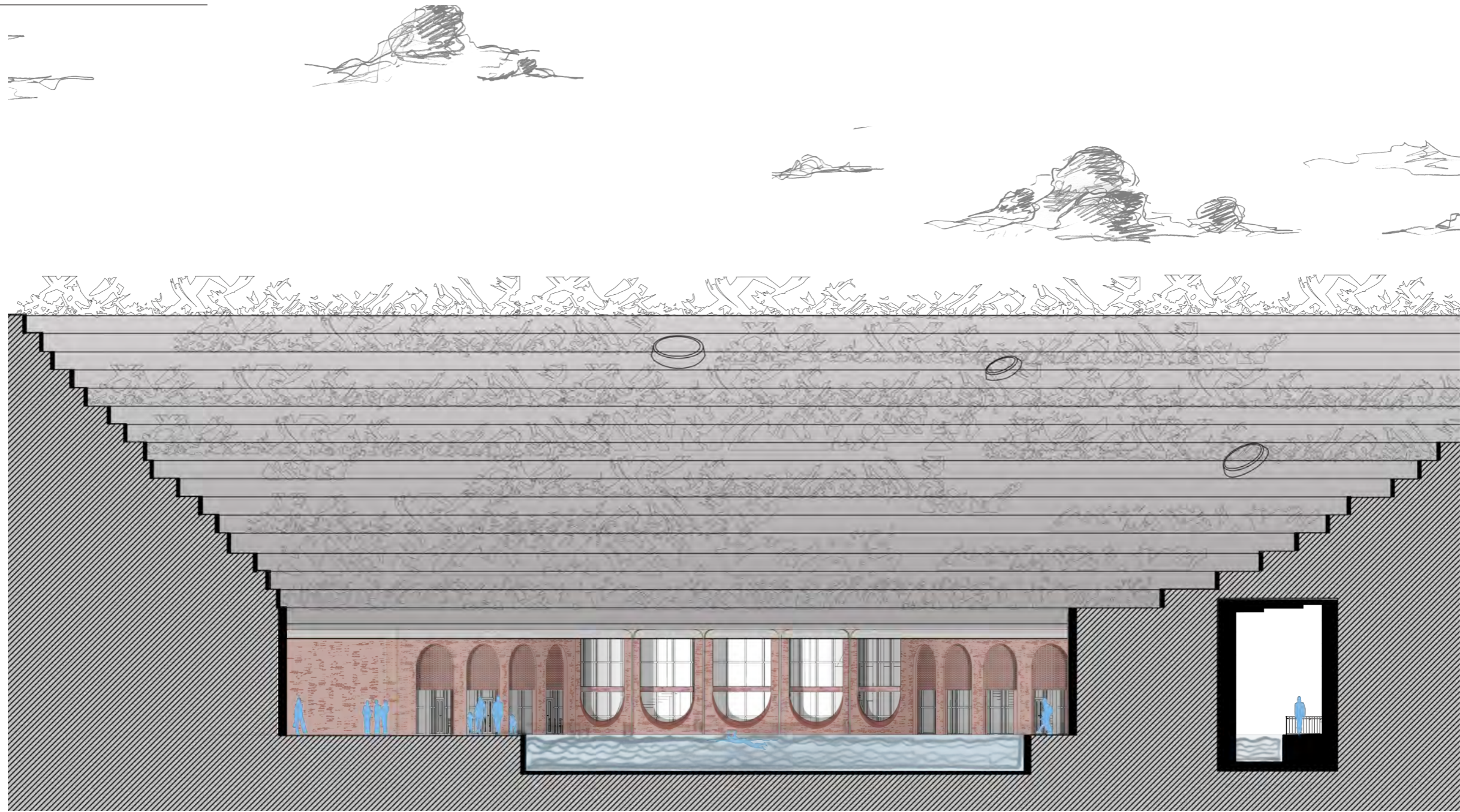
Floor 1

Legend:

-  Fire Extinguisher
-  Escape route
-  Exit
-  Assembly point



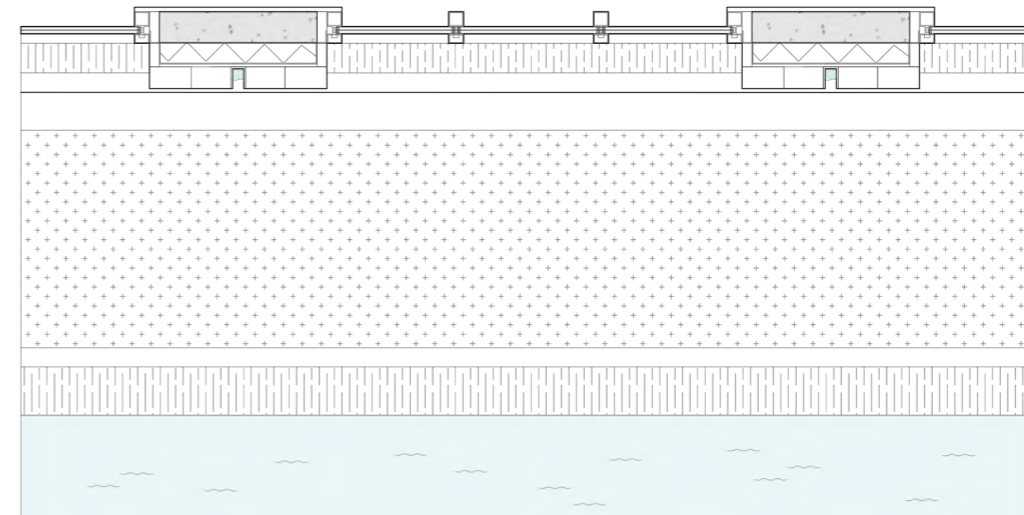
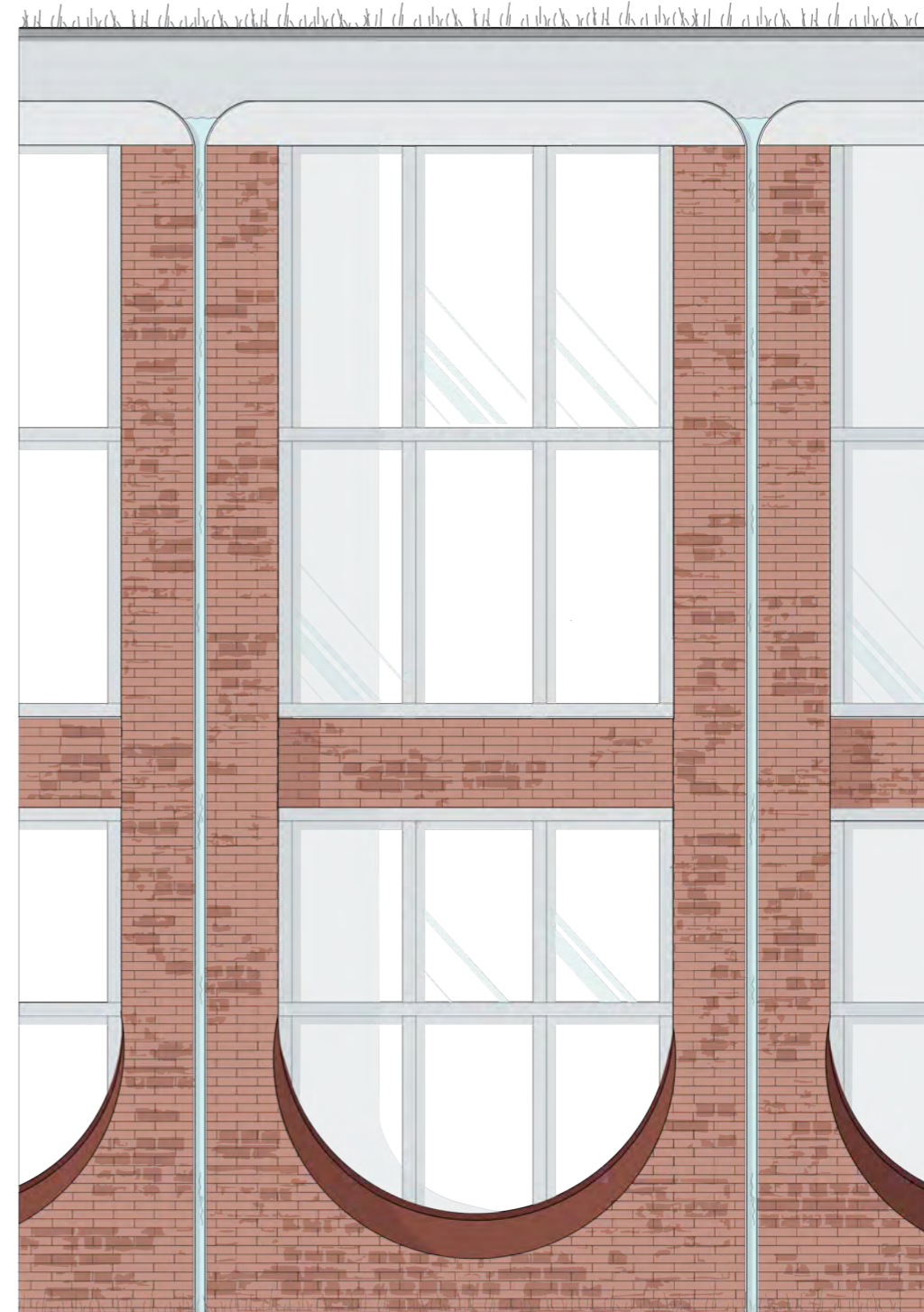
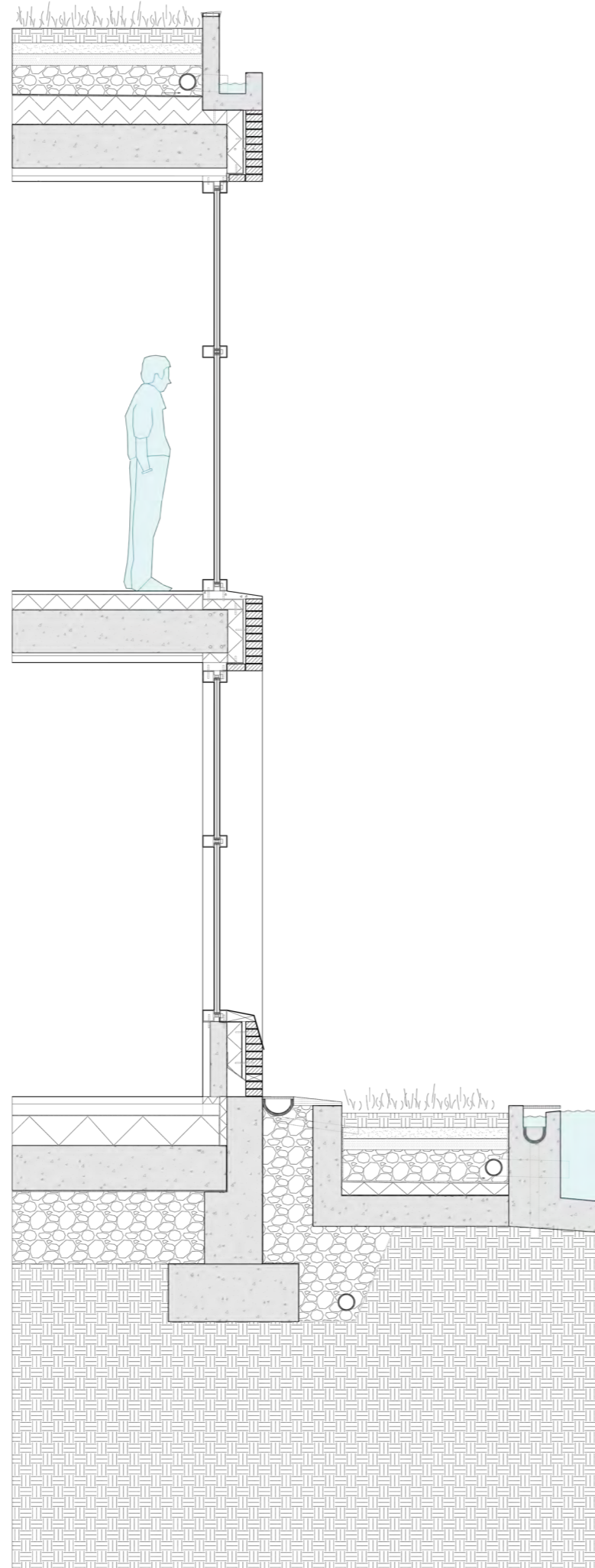
Elevation



Elevation
Scale: 1: 200

Facade fragment

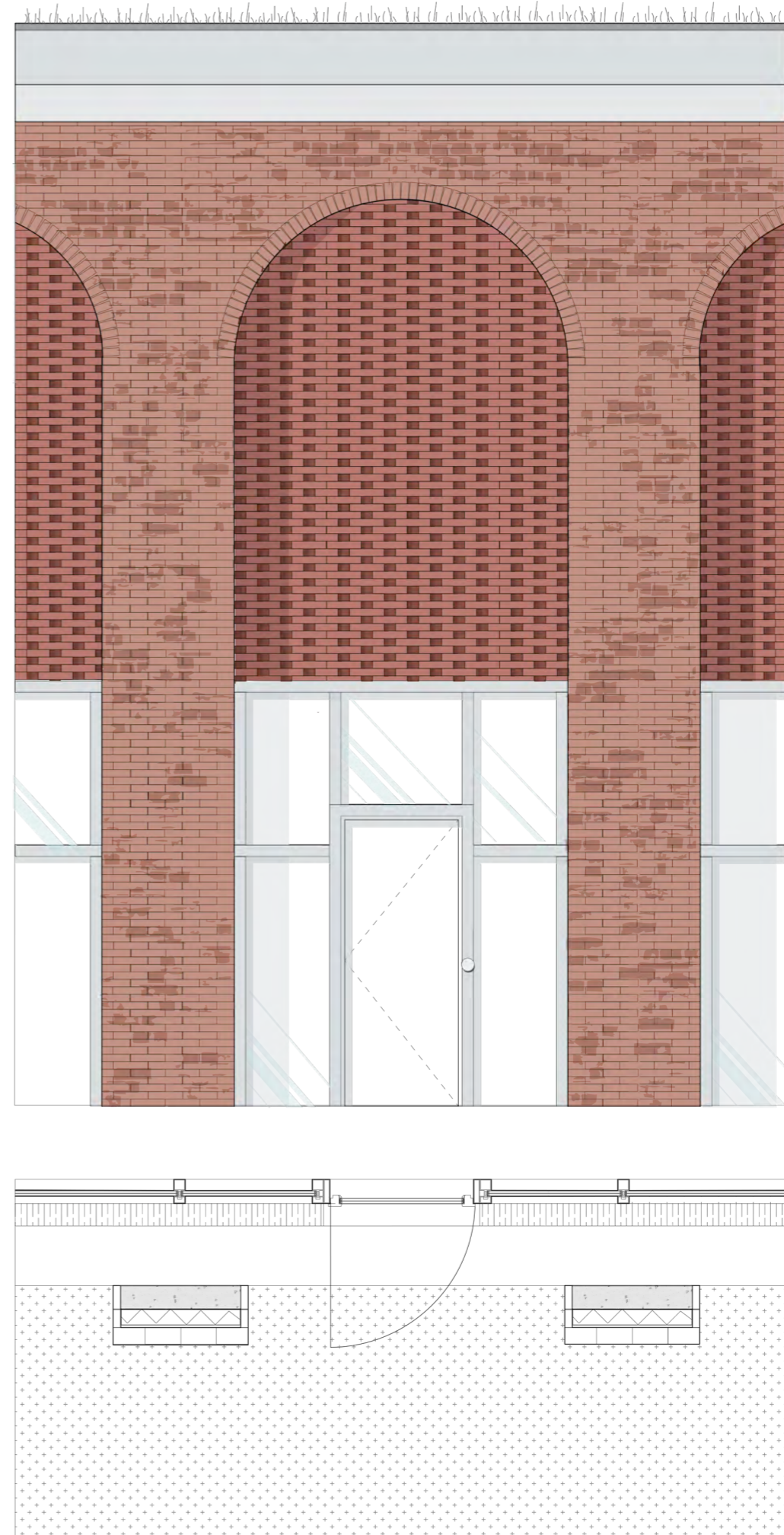
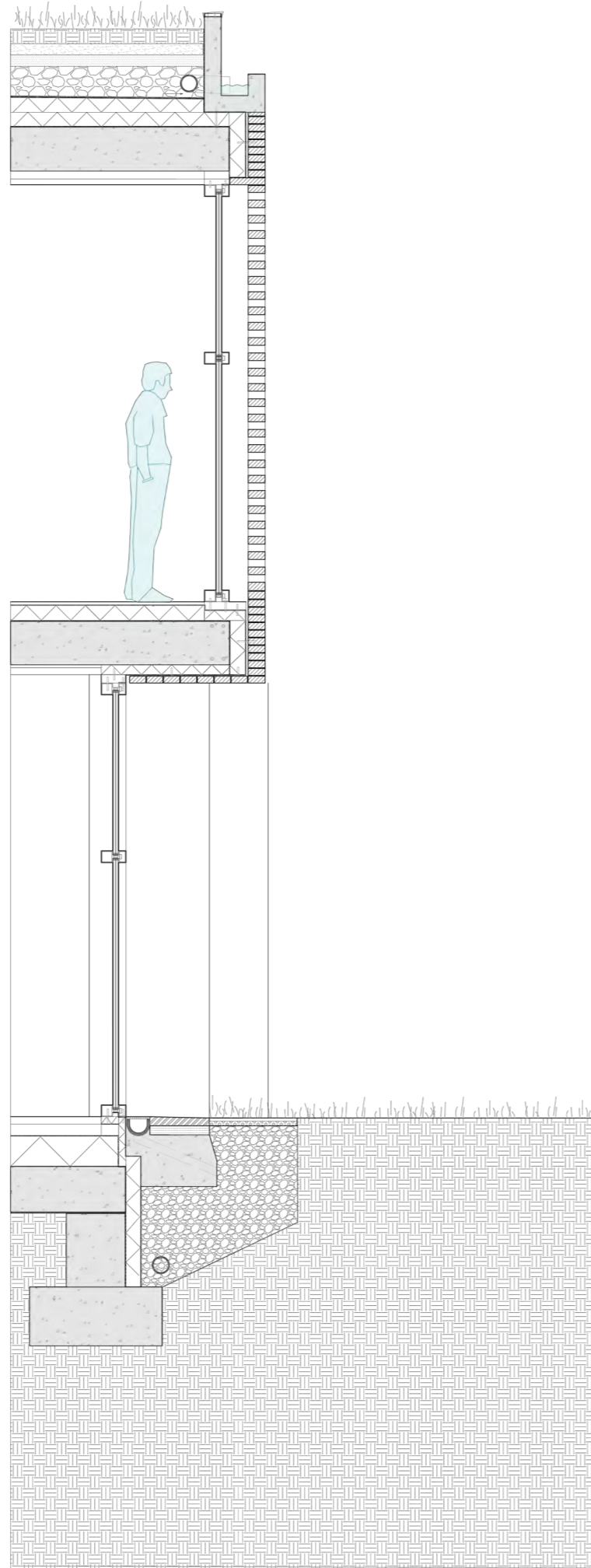
Facade expression



Facade fragment
Scale: 1:20

Facade fragment

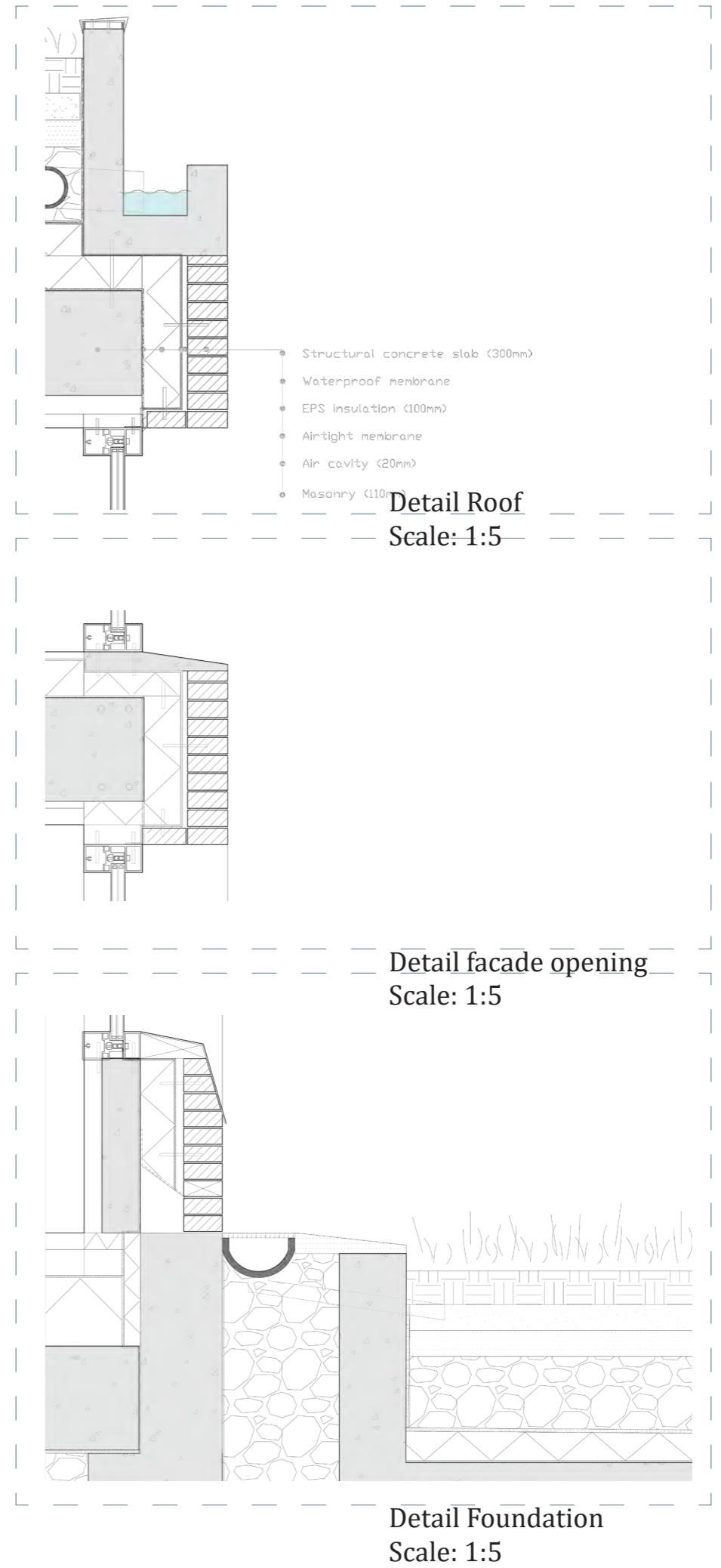
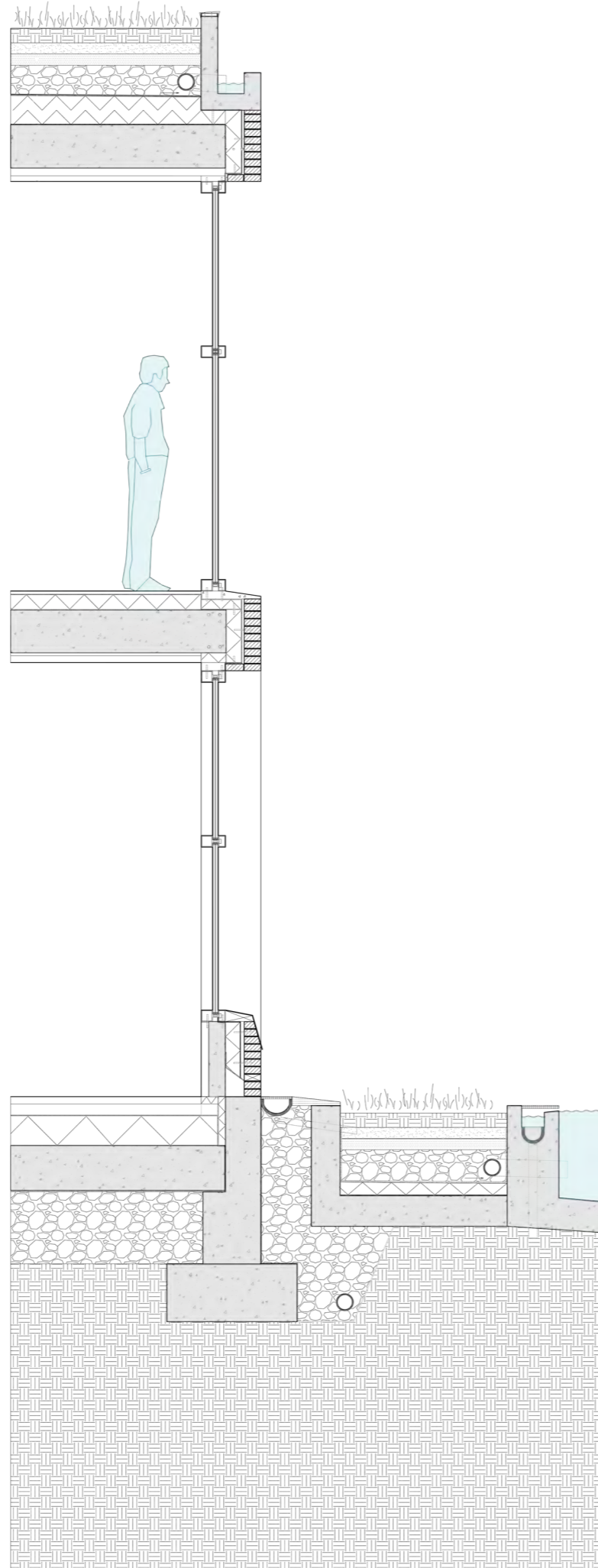
Facade expression



Facade fragment
Scale: 1:20

Facade fragment

Facade fragment
Scale: 1:20



Experience

Design Plan

Liminality visualisation - Art

“Almost all of my subjects are industrial or commercial areas, rather than private residences. They are ‘home’ to no one, but I am drawn to them, and find in them something strangely familiar. The lines between inside and outside are sometimes blurred. The architecture itself is difficult to place, both in time and spatially. These sites may suggest the nation's unresolved social and economic issues; they also represent for me a psychological space, a place for personal reconnaissance.”

- F.Florence

Liminality – could be detected in the clash of opposites- conditions

- familiarity and unfamiliarity
- home and foreign
- loneliness and liveliness
- stillness- dynamic



by Ferdinanda Florence



Brittons no. 7, 2017, Ferdinanda Florence



Nighthawks, 1942, Edward Hopper



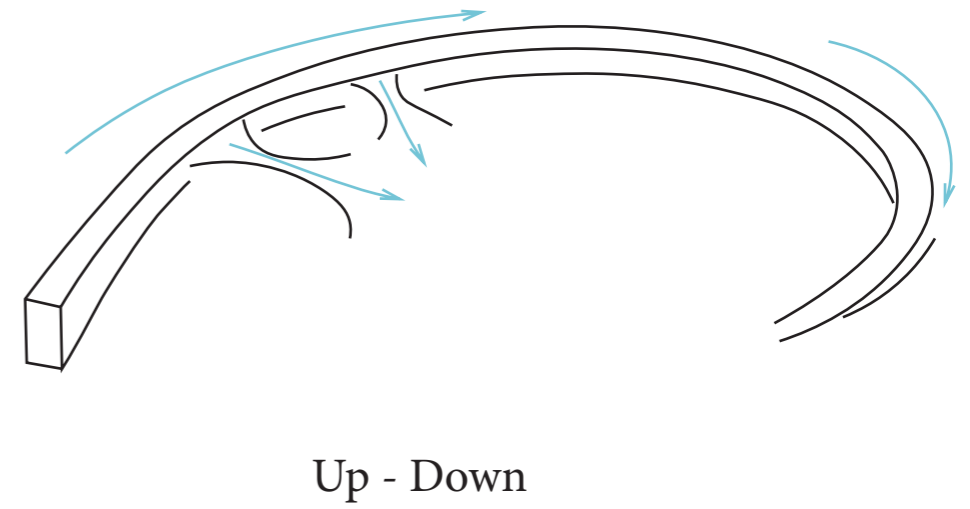
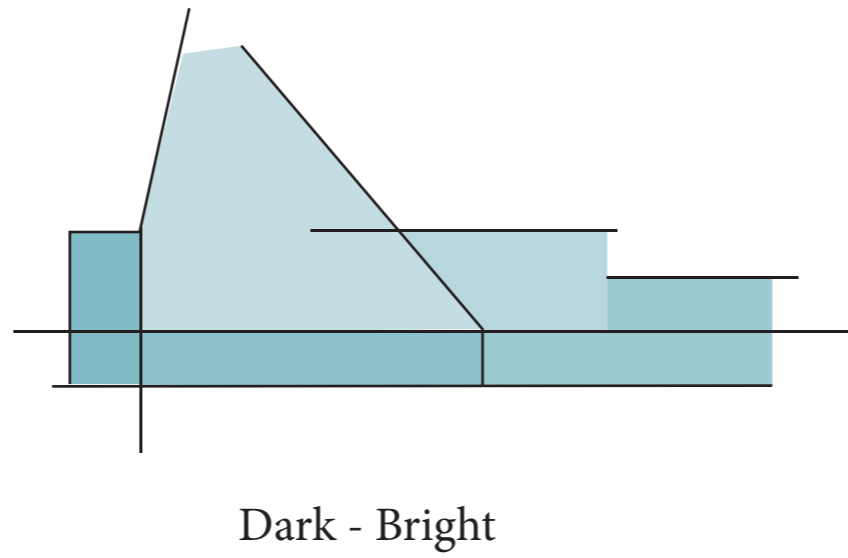
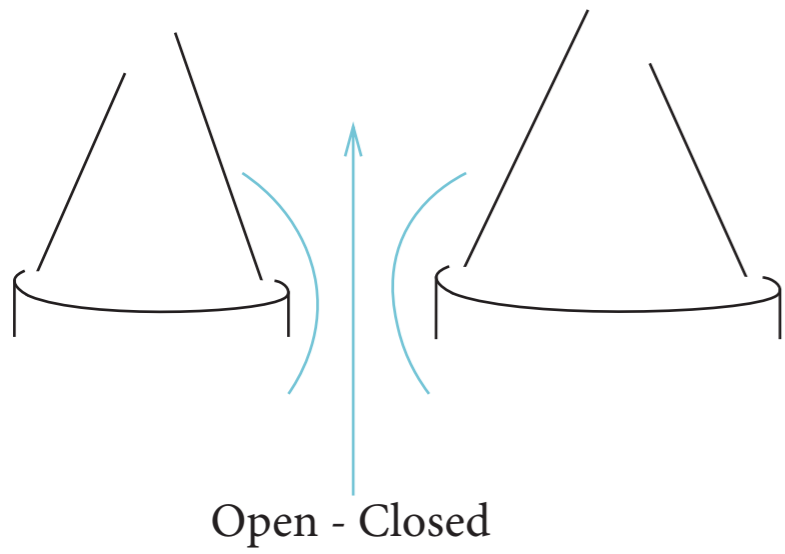
Gas, 1940, Edward Hopper



by Edward Hopper

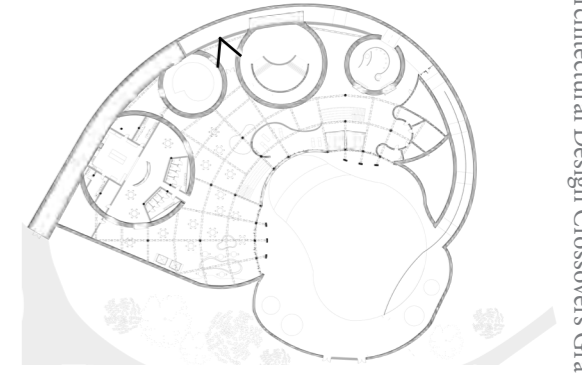
Design Plan

Liminality dramatism



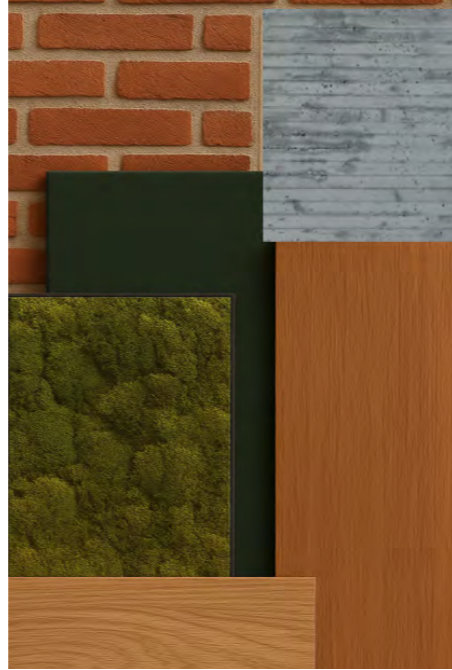
Interior morpology

Atmosphere



Interior morpgology

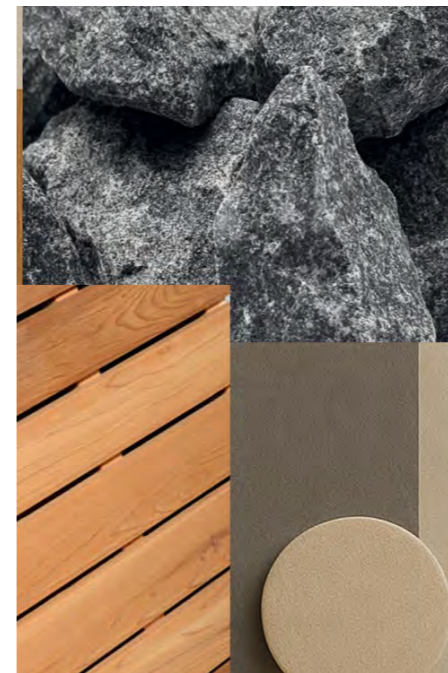
Materials



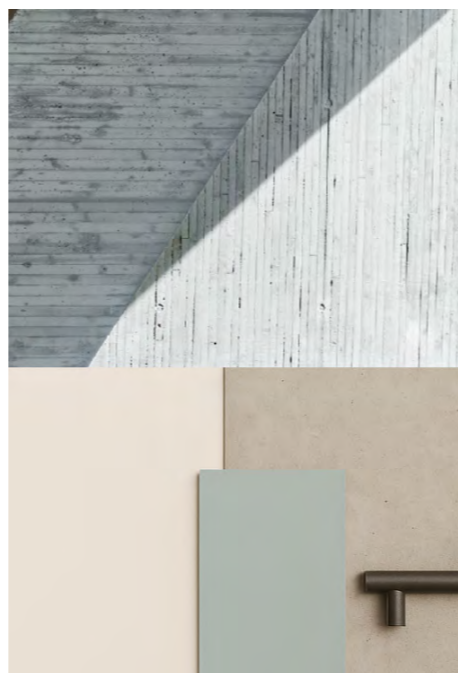
Reception



Steam room



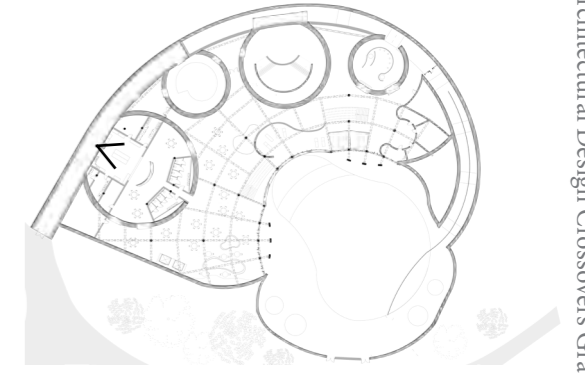
Sauna



Swimming pool indoor

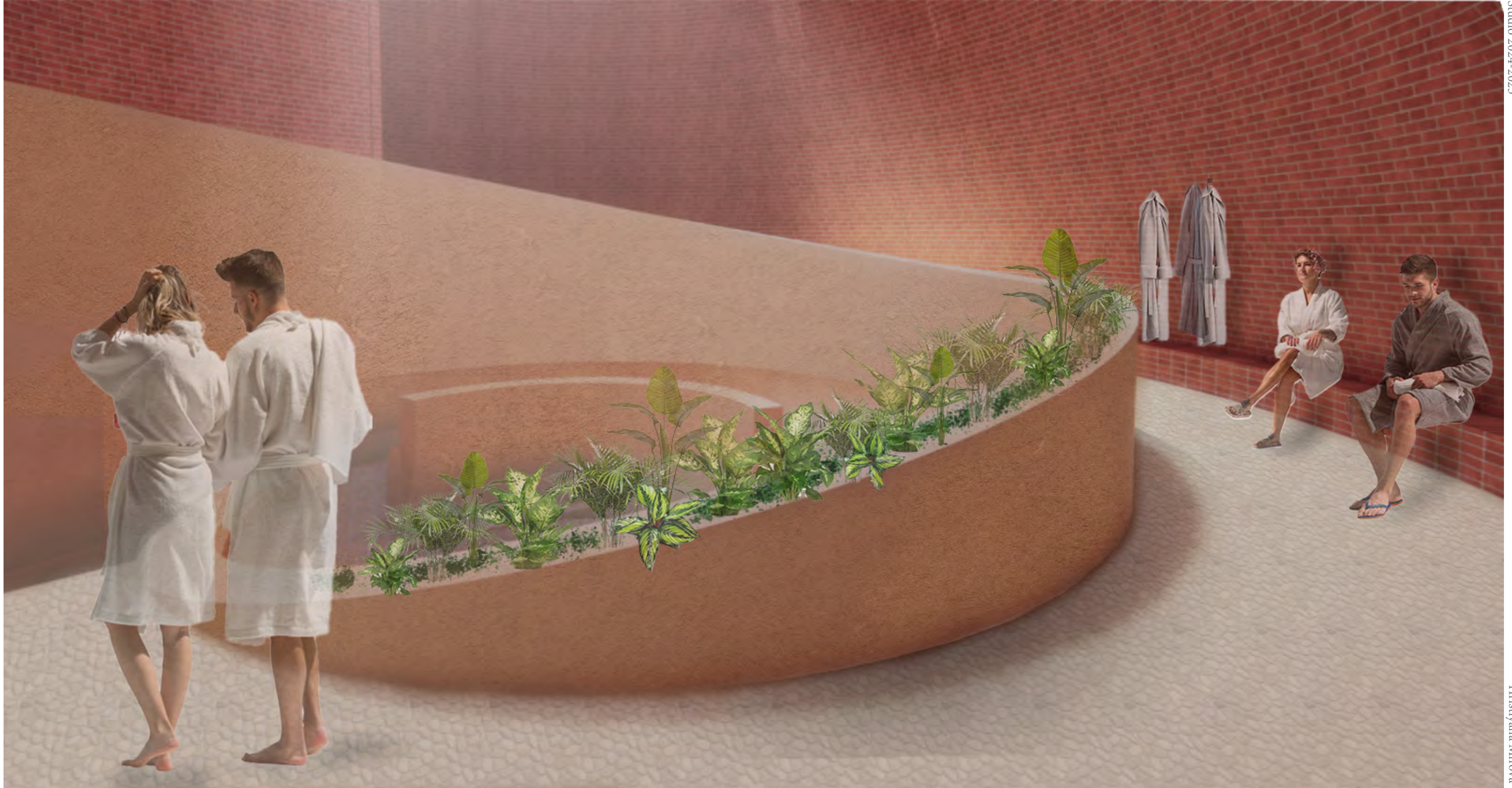
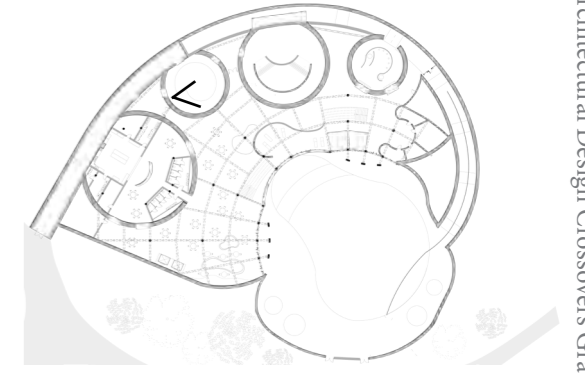
Interior morpgology

Atmosphere - Reception



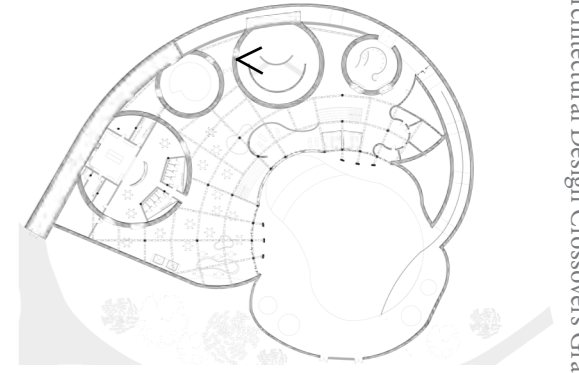
Interior morpology

Atmosphere - Tepidarium



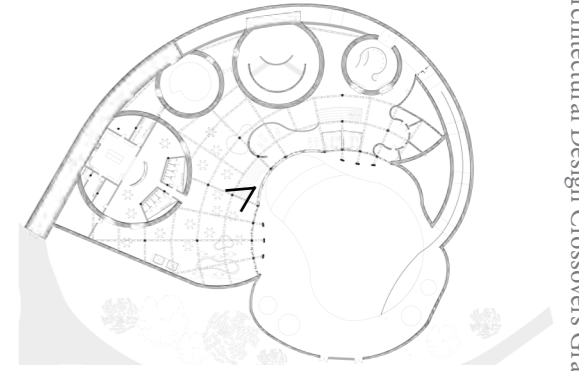
Interior morpgology

Atmosphere - Caldarium



Interior morpology

Atmosphere - Restaurant



Reflection

Thank you !

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