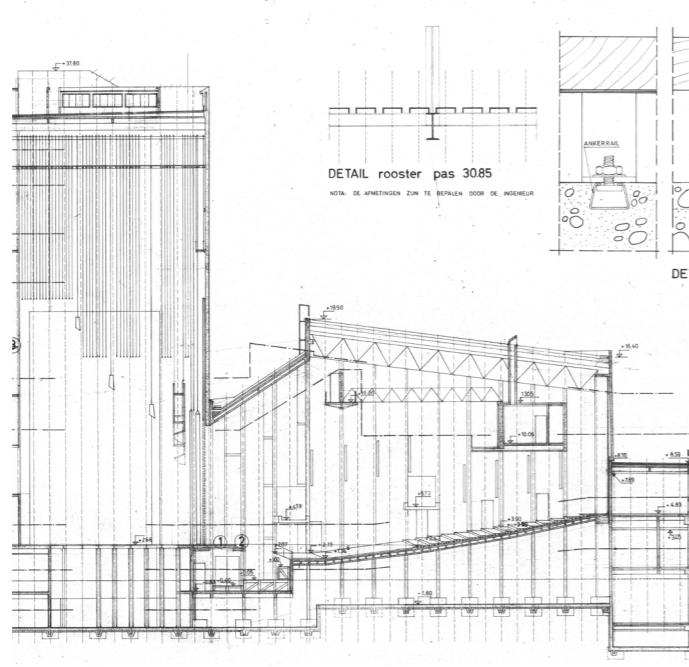


VAi Archive at De Singel

Graduation Project P5

Interiors, Buildings, Cities
Yuqing ZHANG



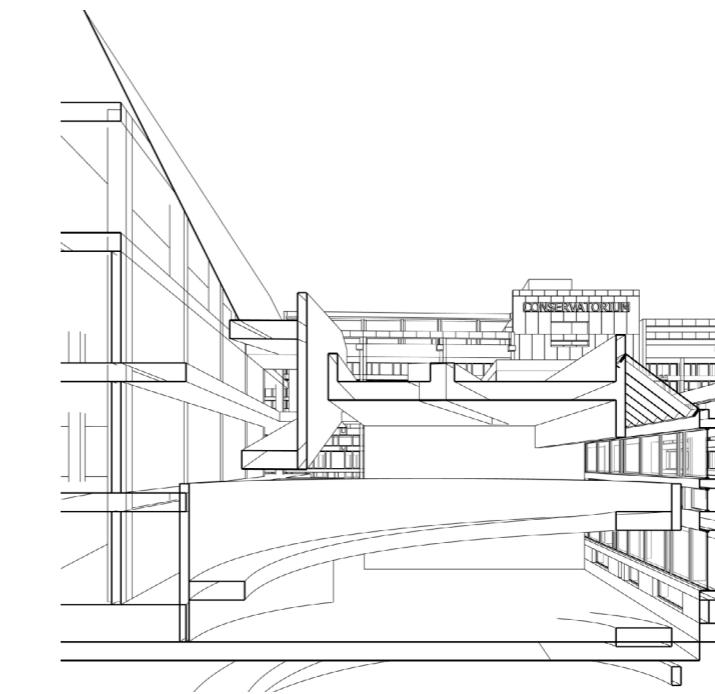
Part 1 - City

Antwerp City
"De Singel" Palace



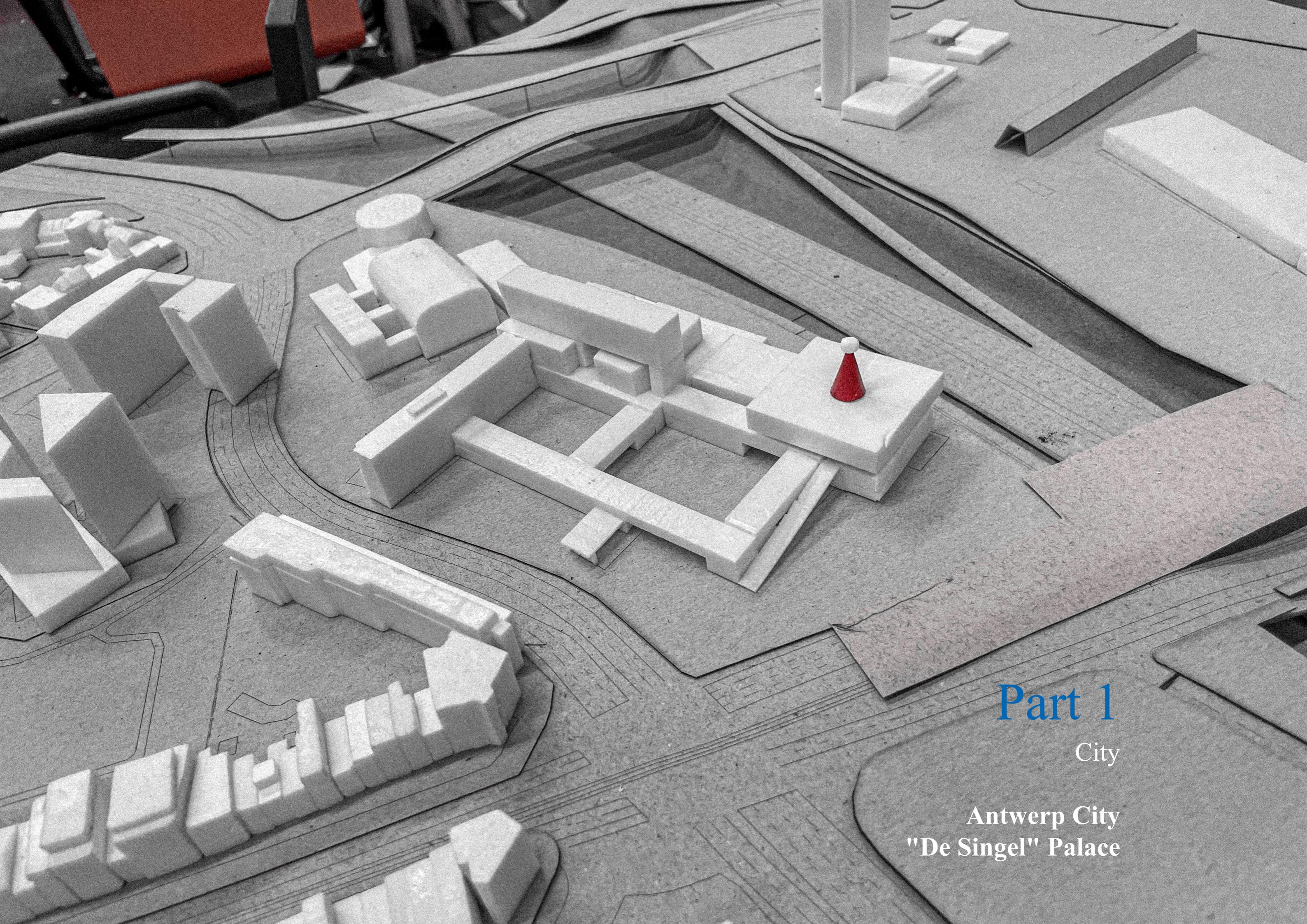
Part 2 - Building

"VAi Archive" Proposal



Part 3 - Interior

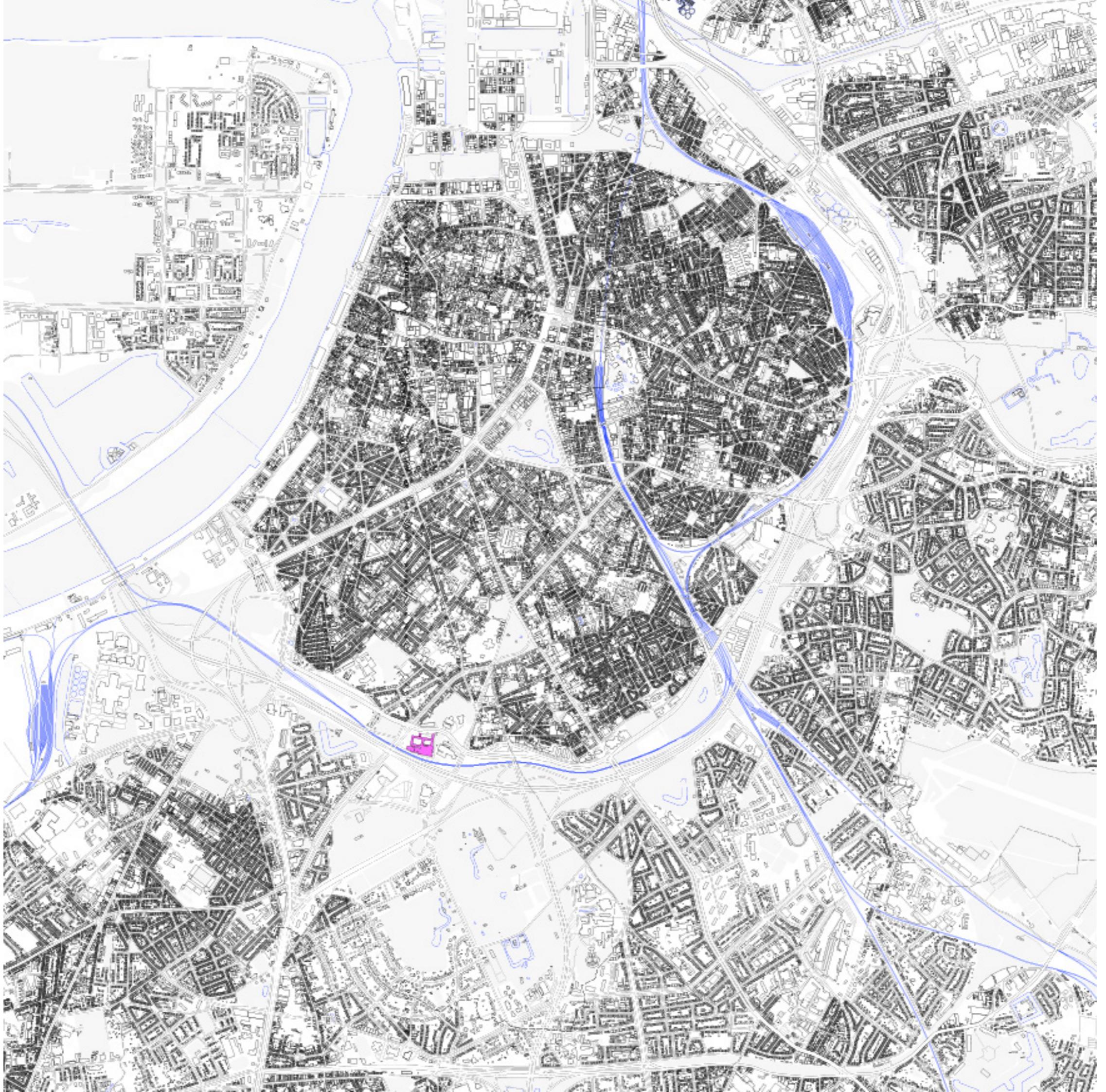
"Visitors' line"
How the Archive works?

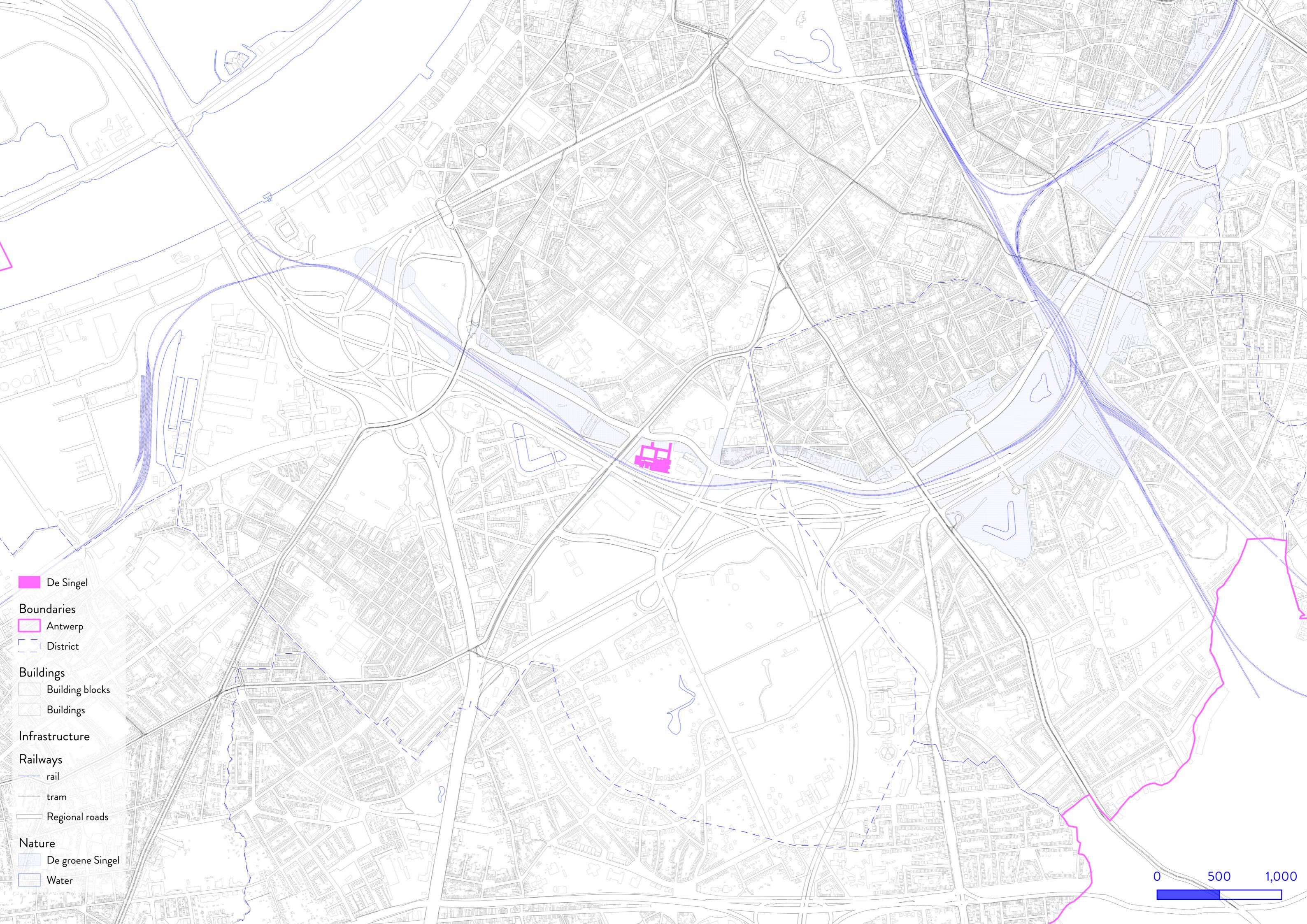


Part 1

City

Antwerp City
"De Singel" Palace







Conclusion 1: new archive should follow the logic that old building grows

Occupancy, shared spaces

Main users



Artesis Plantijn University College educating 600 students



Management of the building - autonomous organisation responsible for the cultural programme



Antwerp is the regional division of Radio 2 and is part of the Flemish Radio and Television Broadcasting Organisation



Figure I.3.61: Public axis (Tieleu.com, 2015).



Figure I.3.62: Antics' foyer (MH, 23/05/2014).



Figure I.3.63: Students' refactory (MH, 23/05/2014).

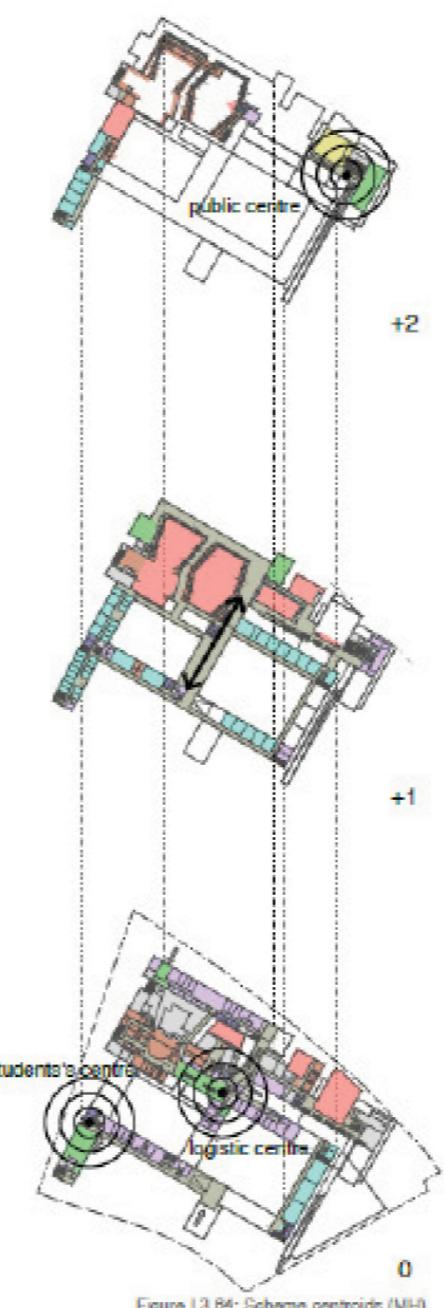
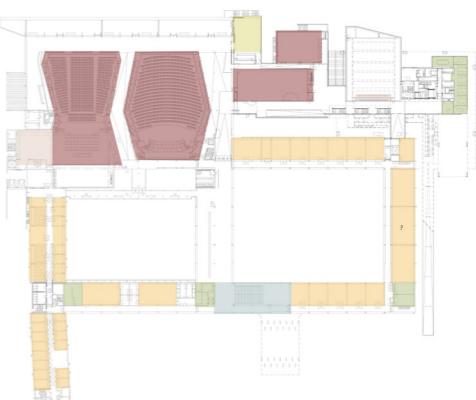
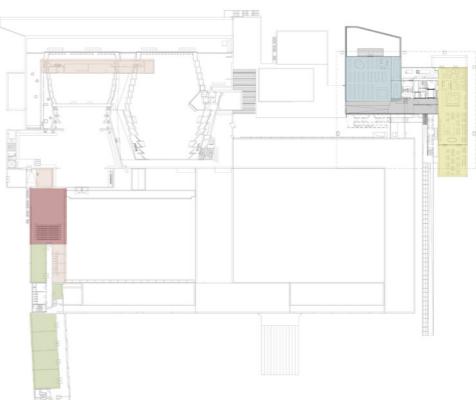
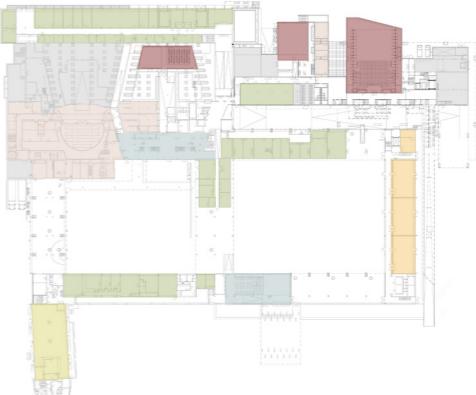


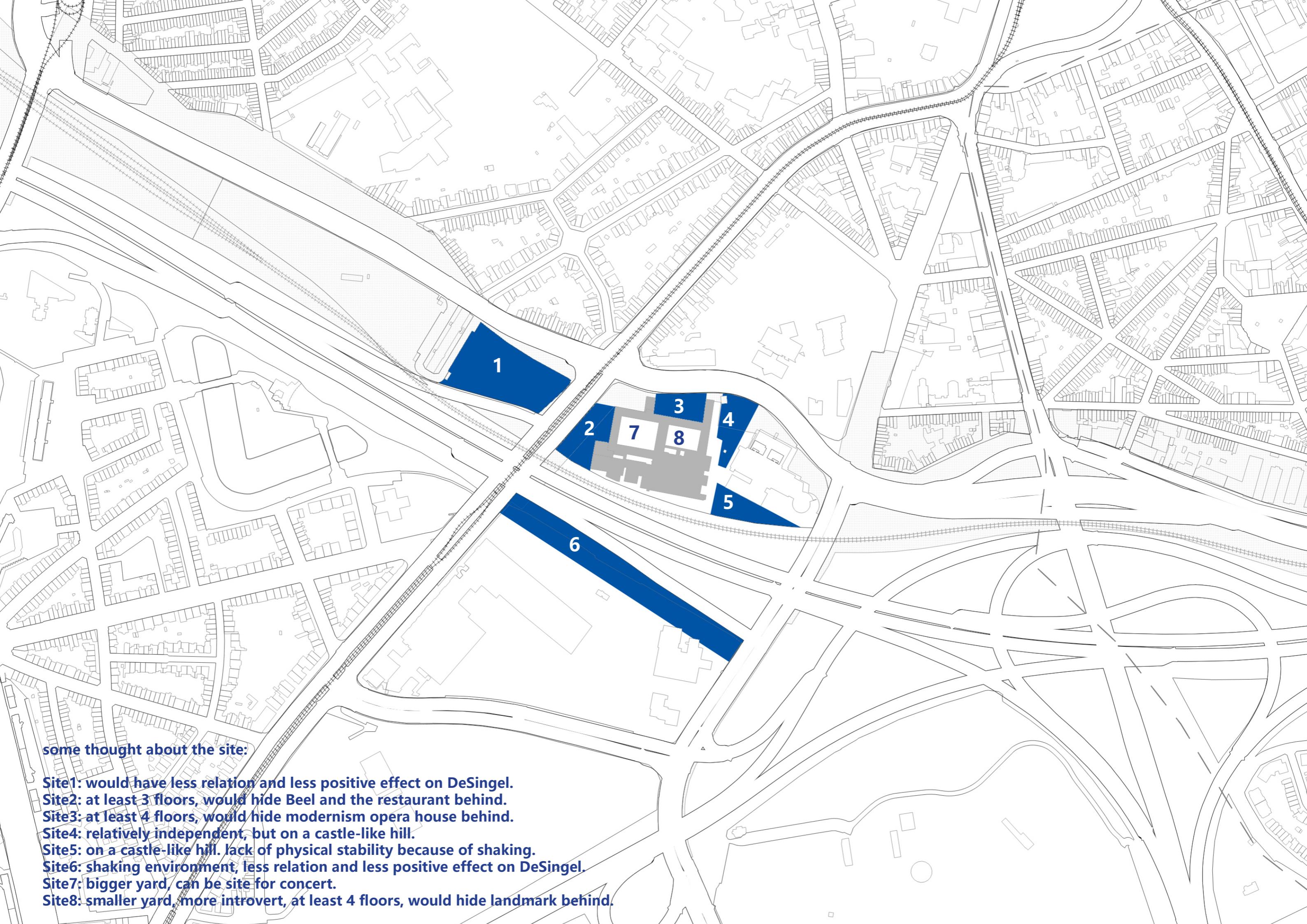
Figure I.3.64: Schema centroids (MH).



Legend:

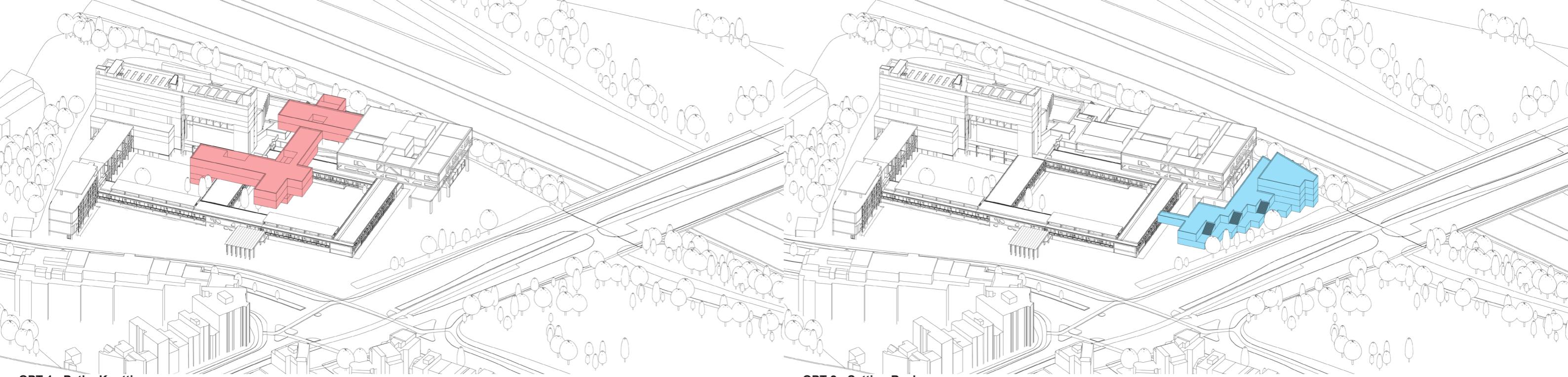
- Entrance hall
- Library
- Office
- Hall
- Backstage
- Classroom
- Restaurant
- Logistic

Conclusion 2: new archive should make each functions centralized



some thought about the site:

- Site1: would have less relation and less positive effect on DeSingel.
- Site2: at least 3 floors, would hide Beel and the restaurant behind.
- Site3: at least 4 floors, would hide modernism opera house behind.
- Site4: relatively independent, but on a castle-like hill.
- Site5: on a castle-like hill. lack of physical stability because of shaking.
- Site6: shaking environment, less relation and less positive effect on DeSingel.
- Site7: bigger yard, can be site for concert.
- Site8: smaller yard, more introvert, at least 4 floors, would hide landmark behind.



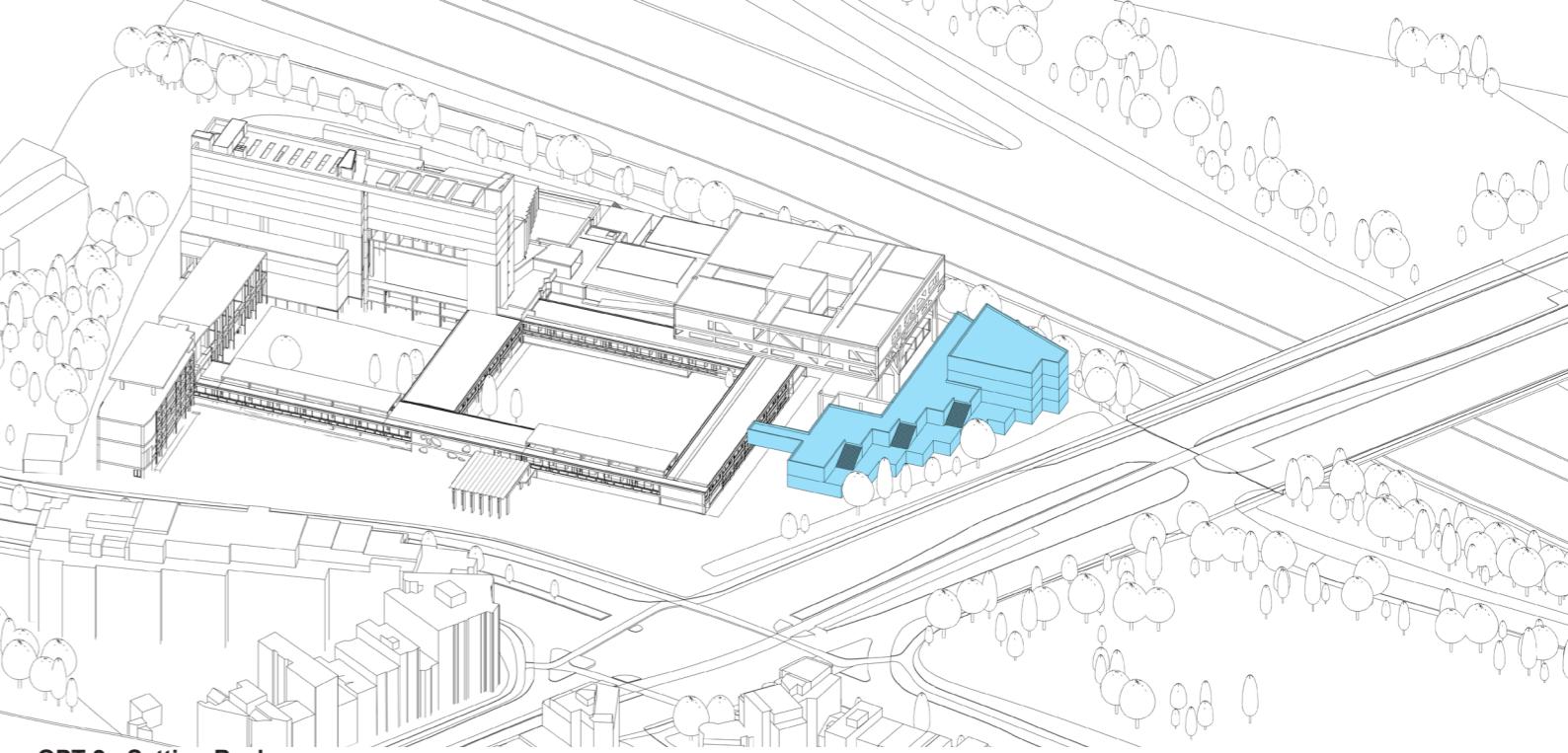
OPT 1 - Paths Knotting

Strategy:

Use the original urban texture, scale, and ground floor overhead.

Knot new and old flow lines to make them independent and relatively connected.

Will not destroy the original skyline.



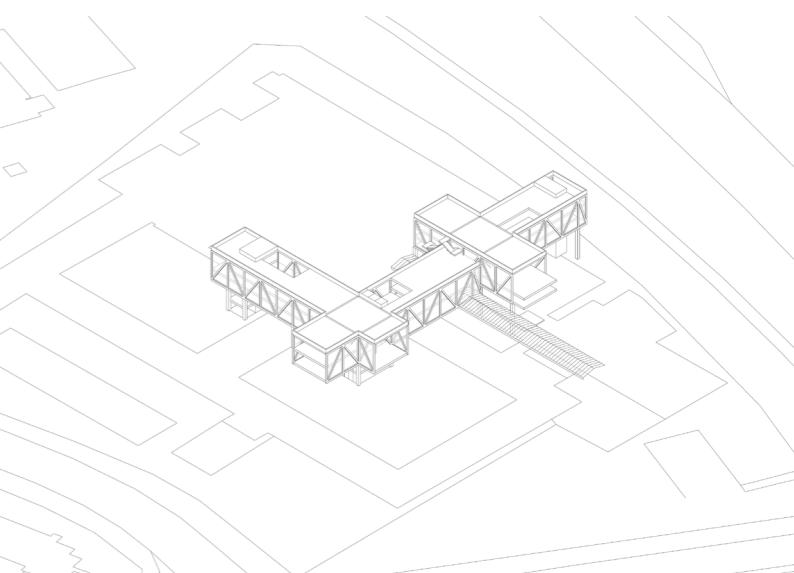
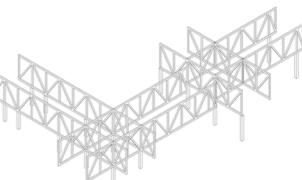
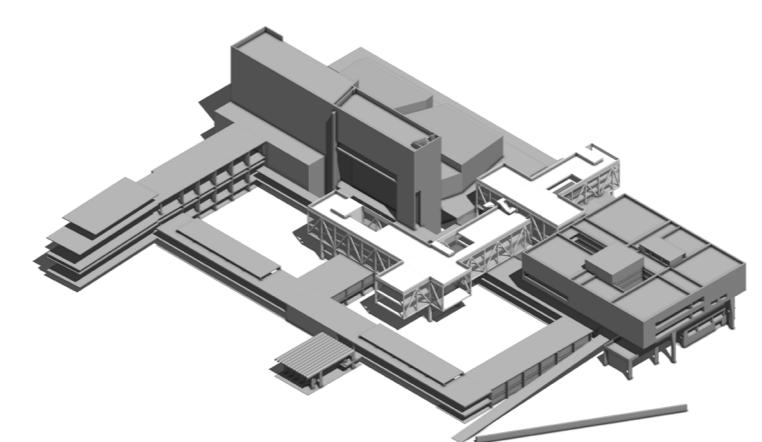
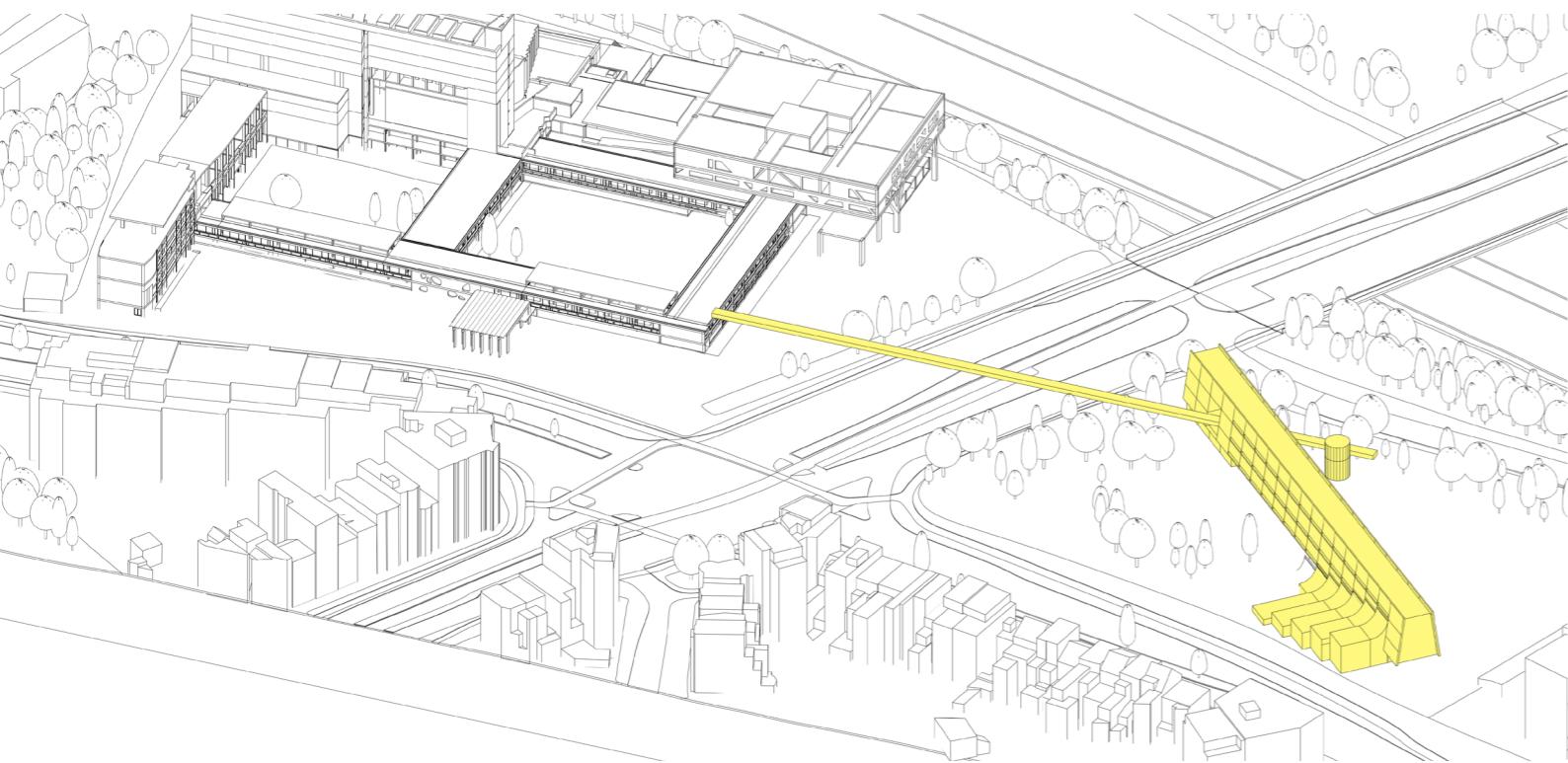
OPT 2 - Setting Back

Strategy:

Activate the gray space between the wooden box and the concrete bar to enhance its public.

Underground garage making the corner space more open.

The terrace and stairs continue the original trend.



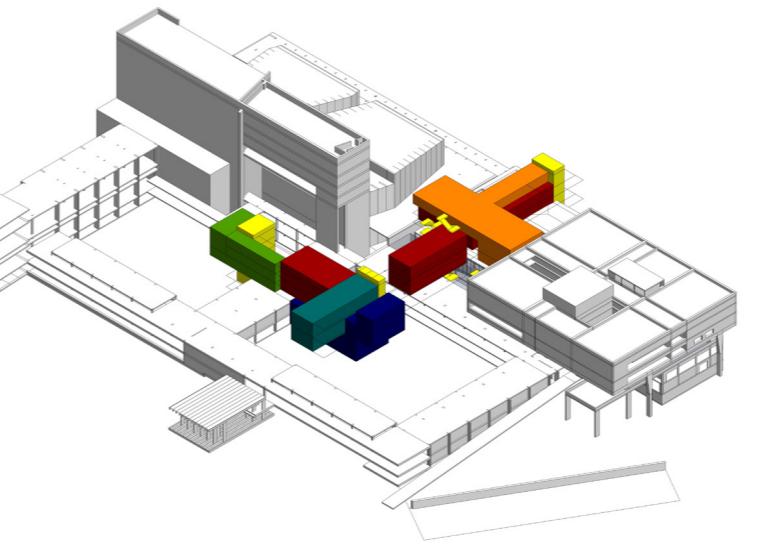
OPT 3 - Shelf

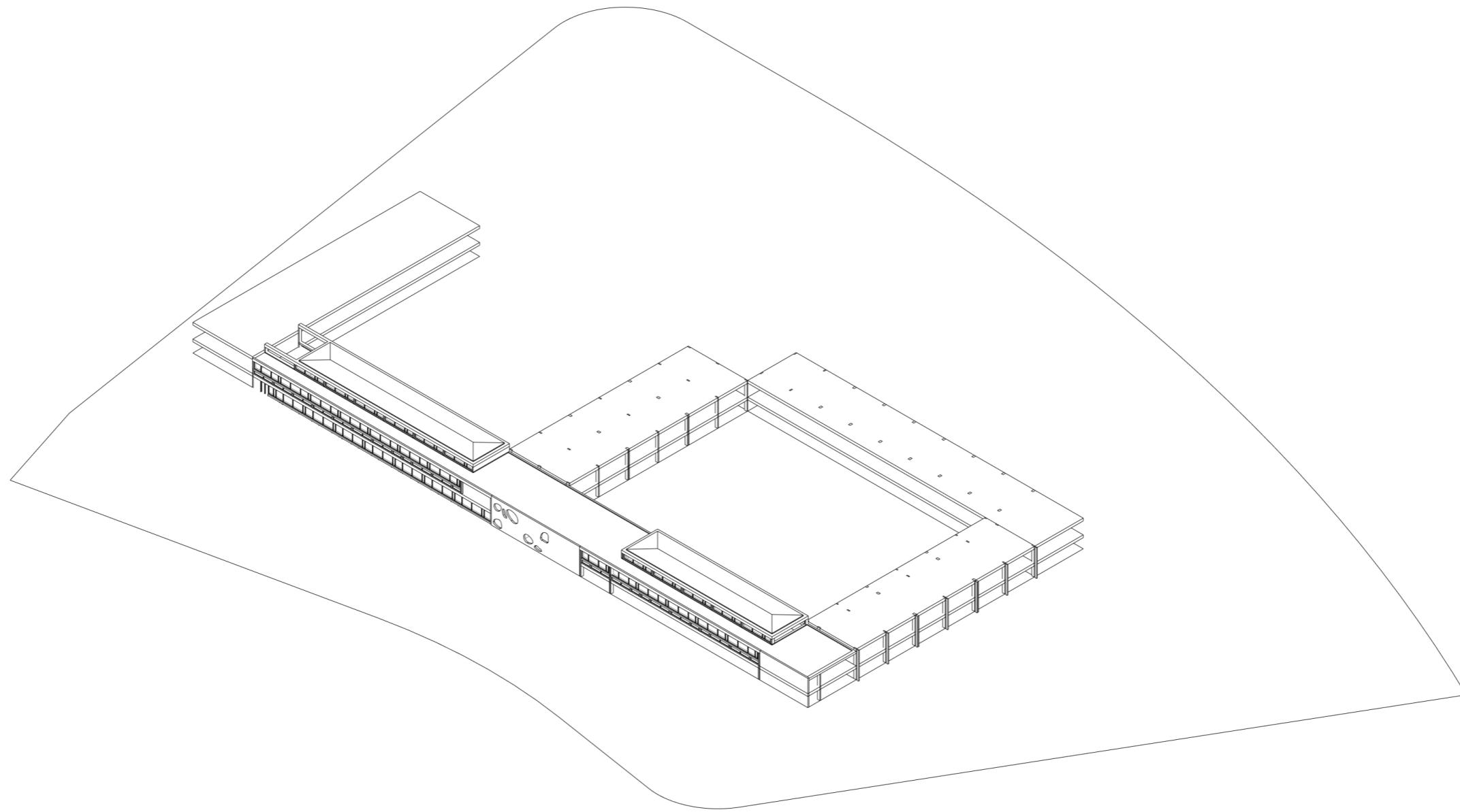
Strategy:

Connect urban enclaves.

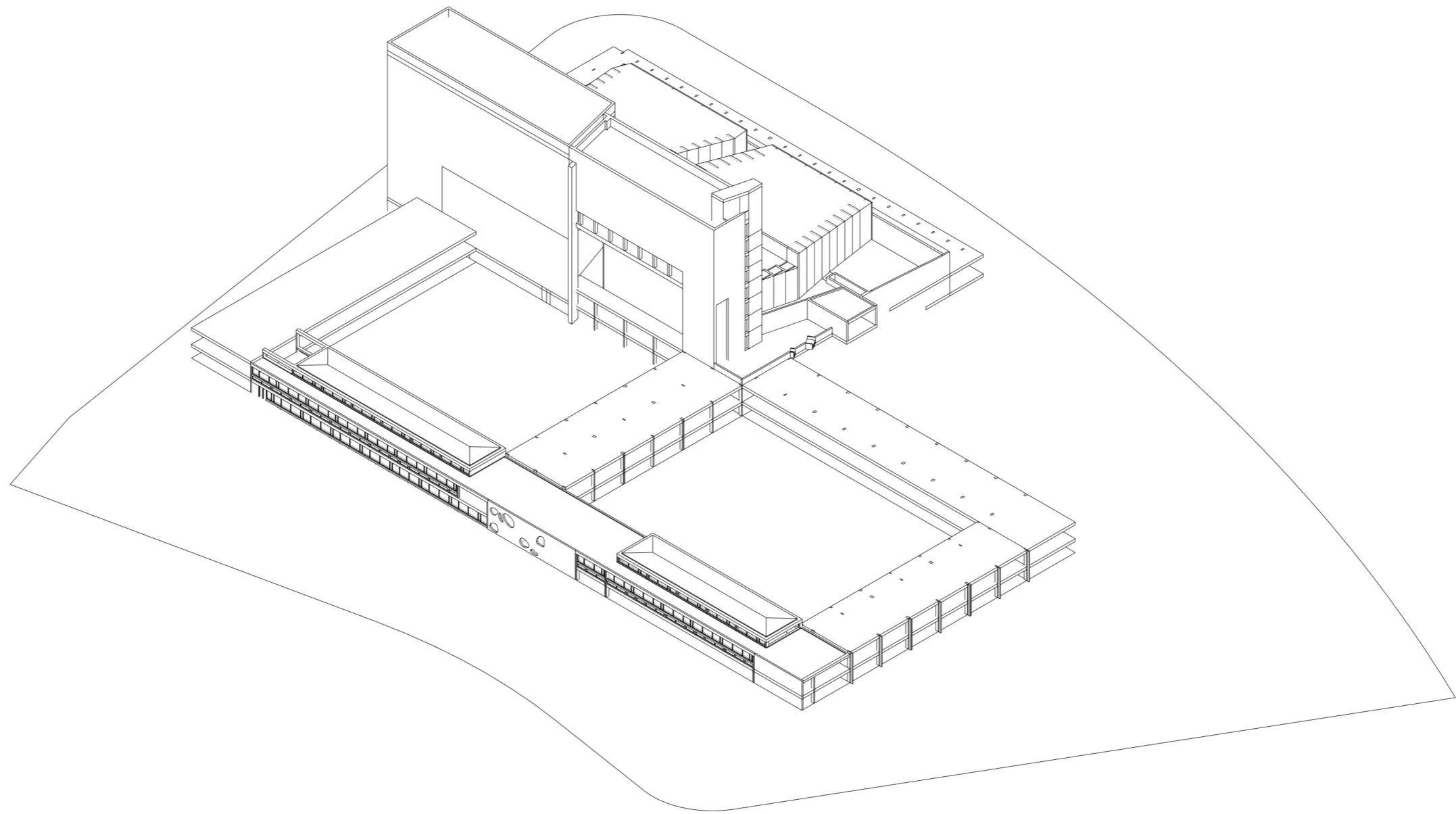
Form a long block of greenery and urban infrastructure.

Hide the building in a small forest.

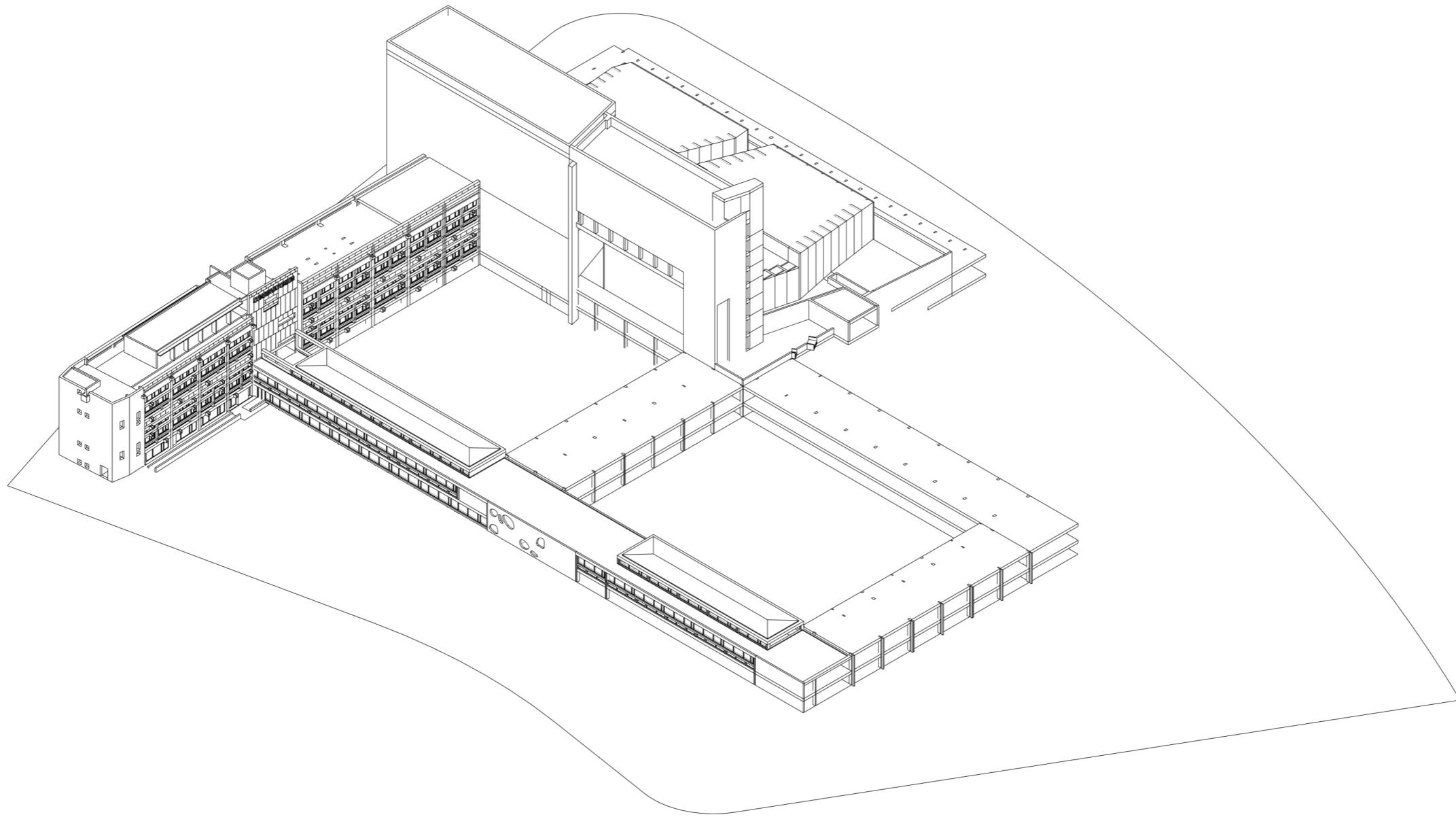




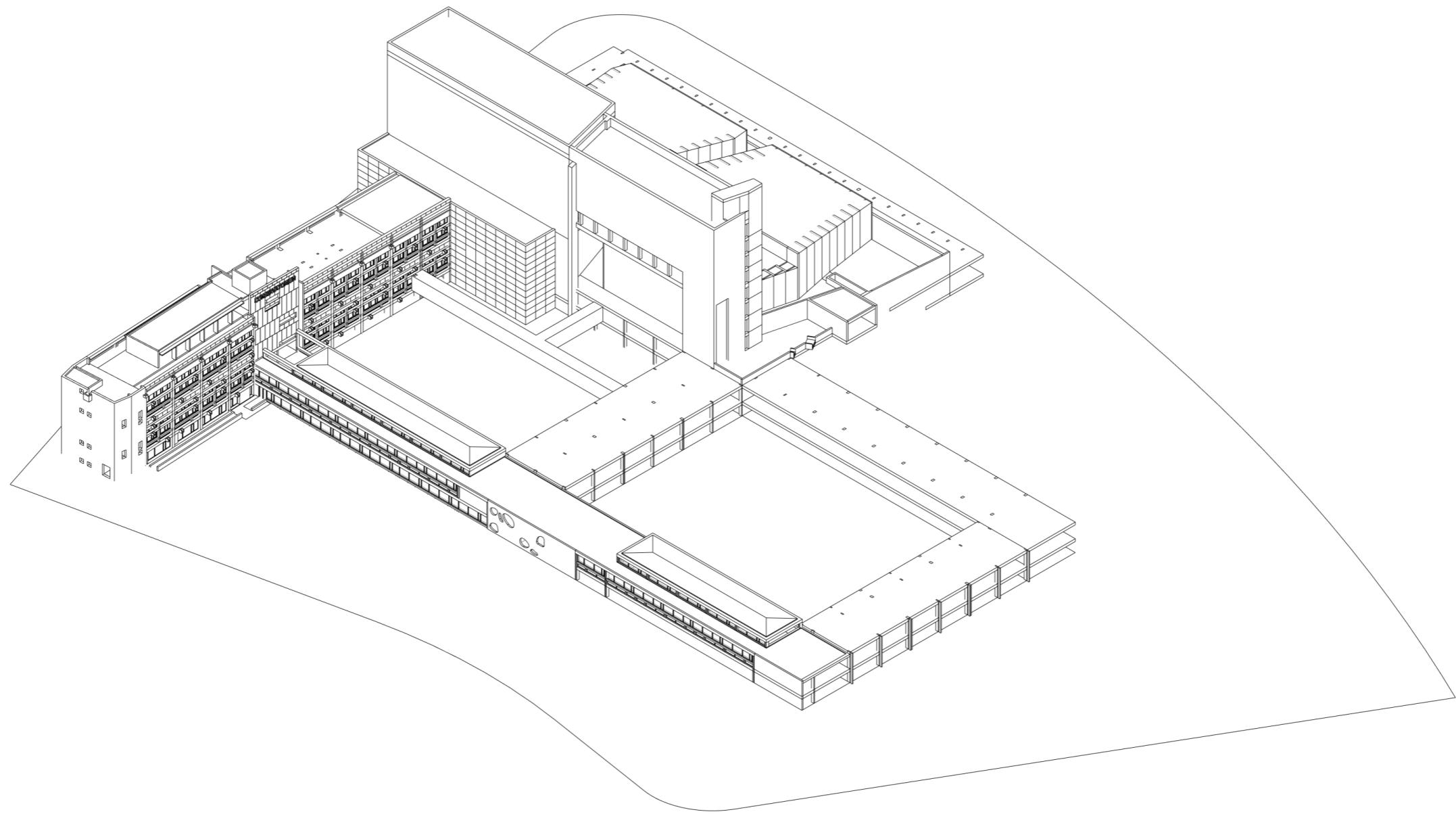
**Phase 1 (1963-1968) Stynen
loop + east wing**



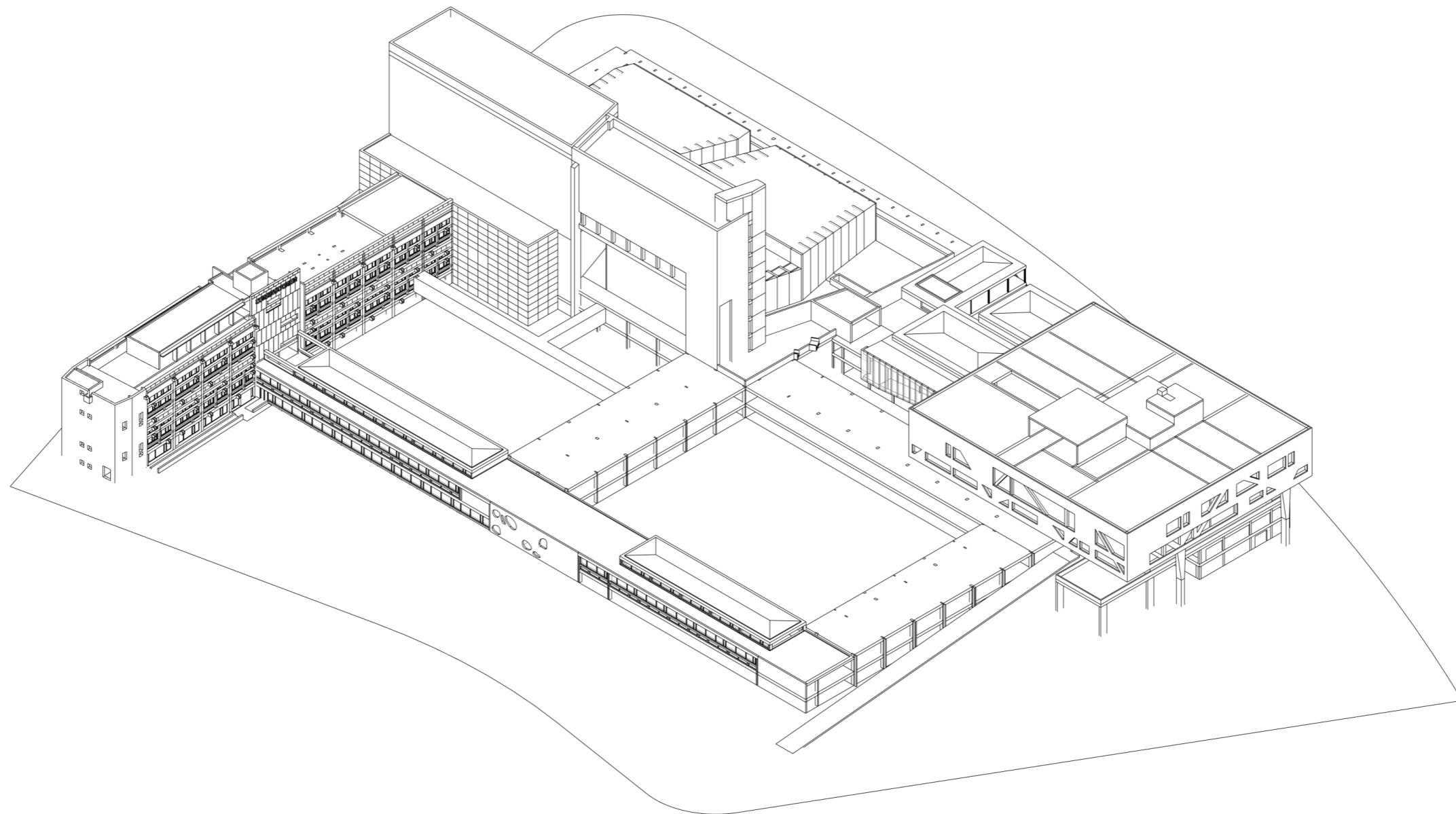
**Phase 2 (1973-1980) Stynen
loop + tower**



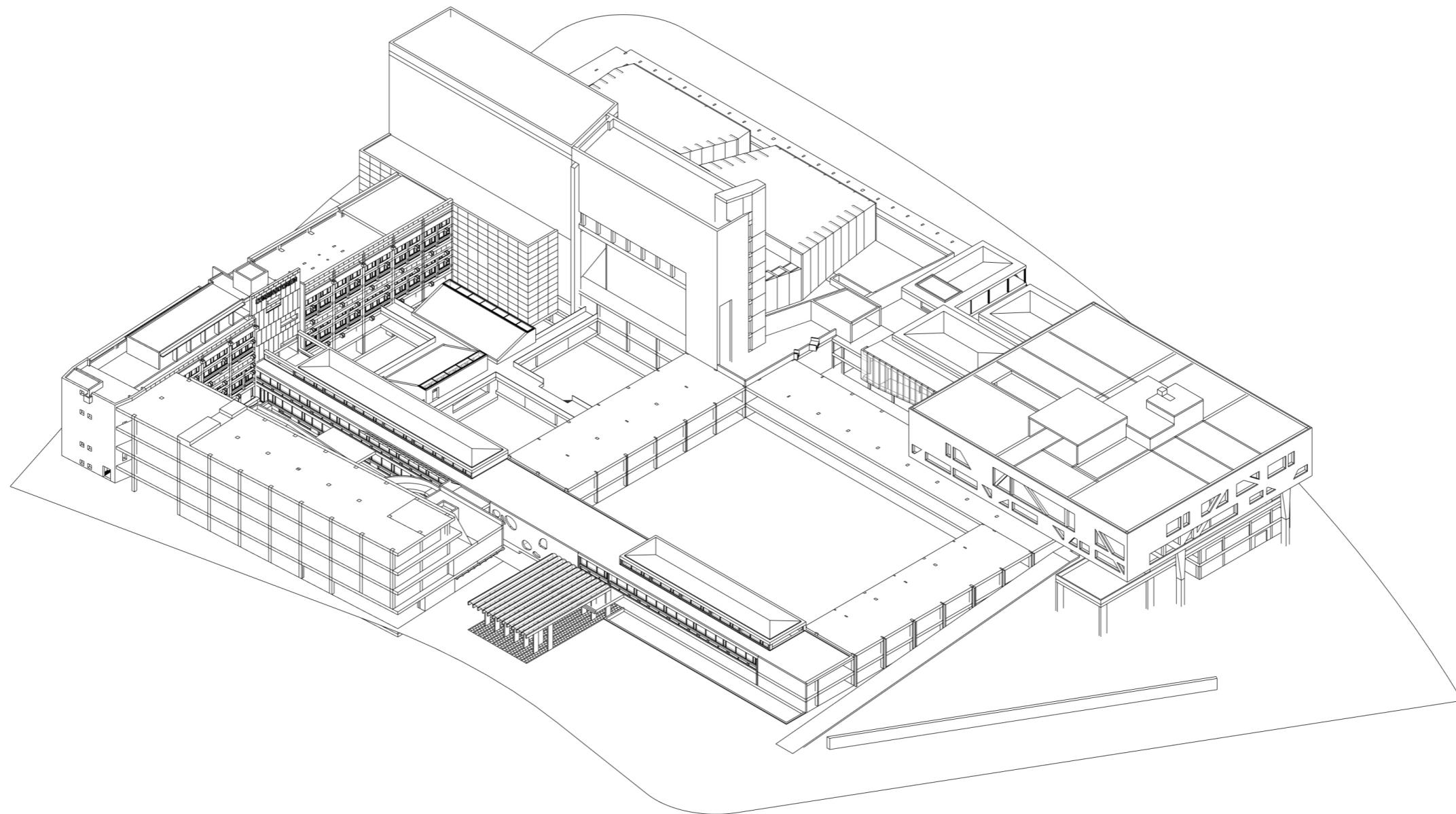
Phase 3 (1985-1987) Stynen & De Meyer
east wing



**Phase 4 (1996-2000)
expansion + small loops**

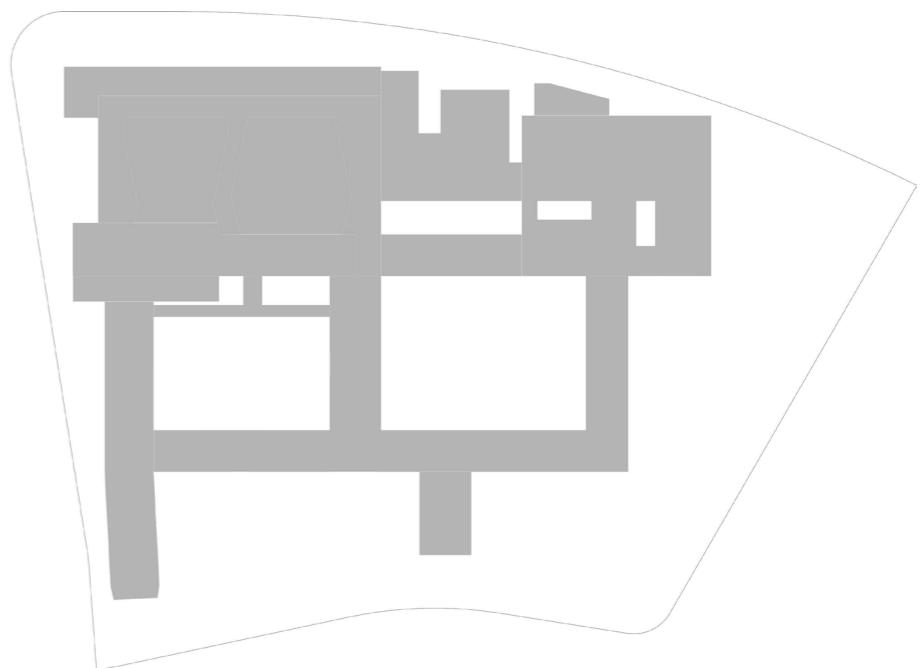
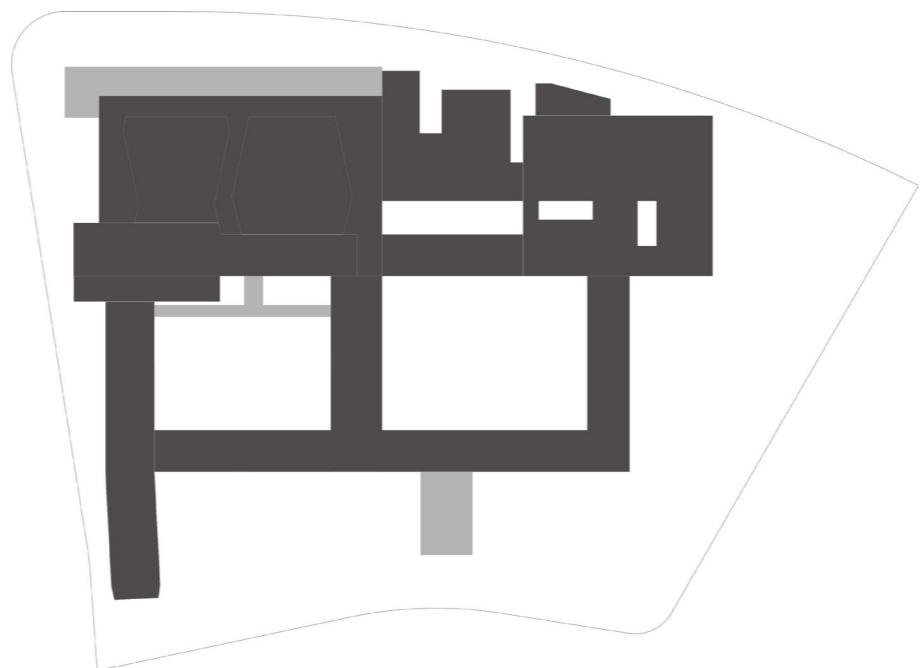
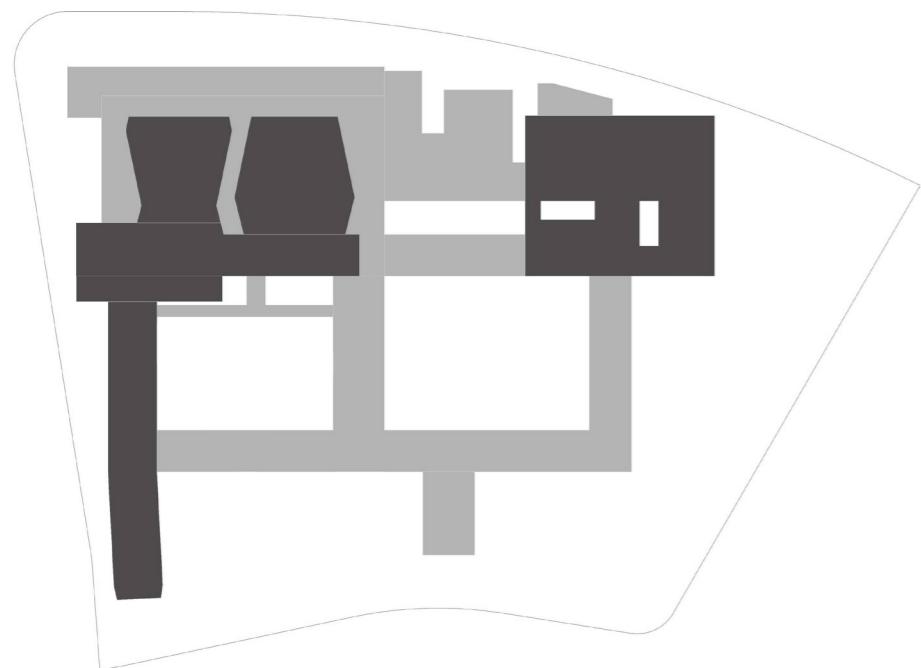


**Phase 5 (2004-2010) Beel
tower**

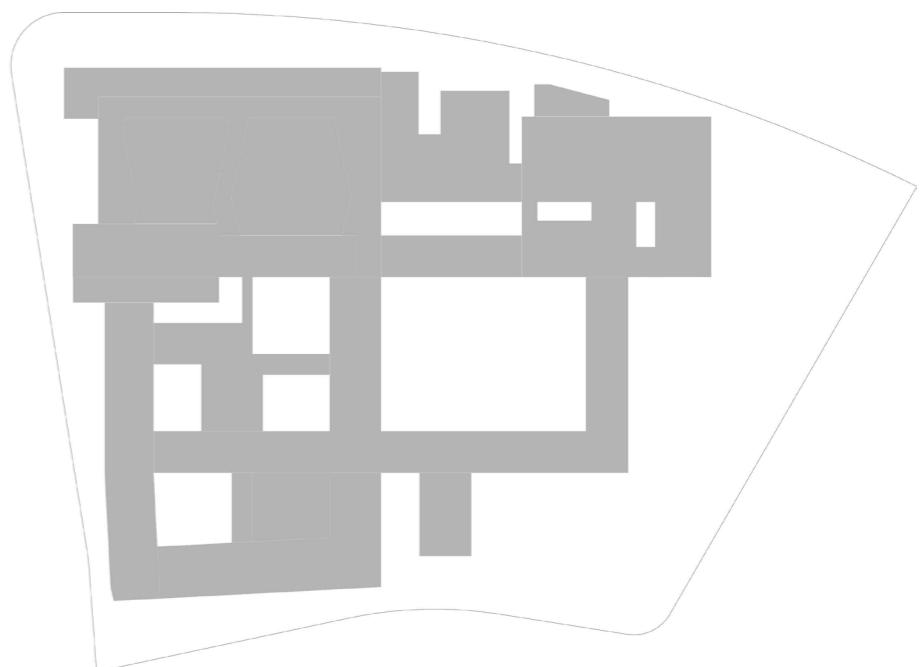
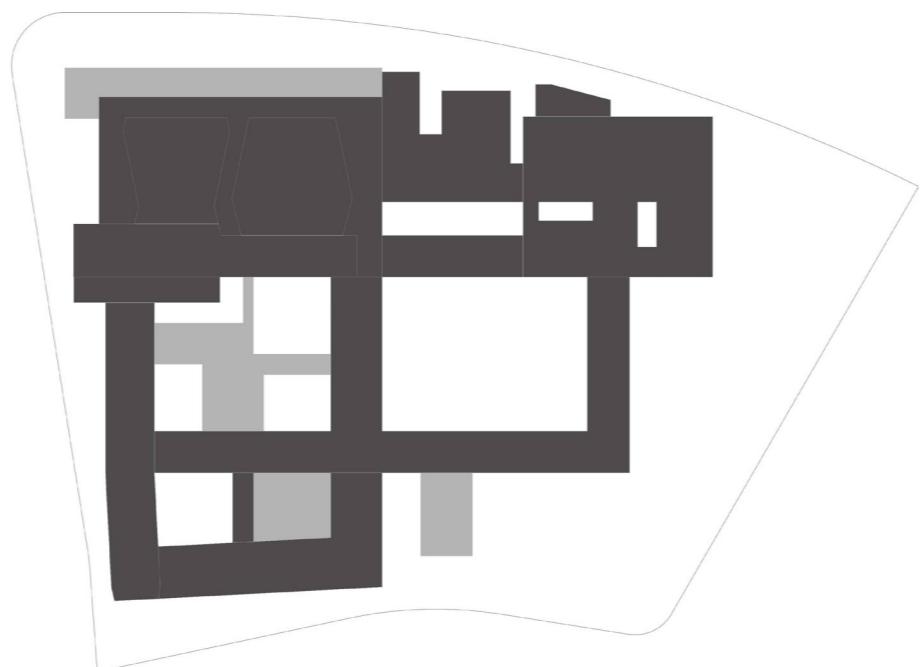
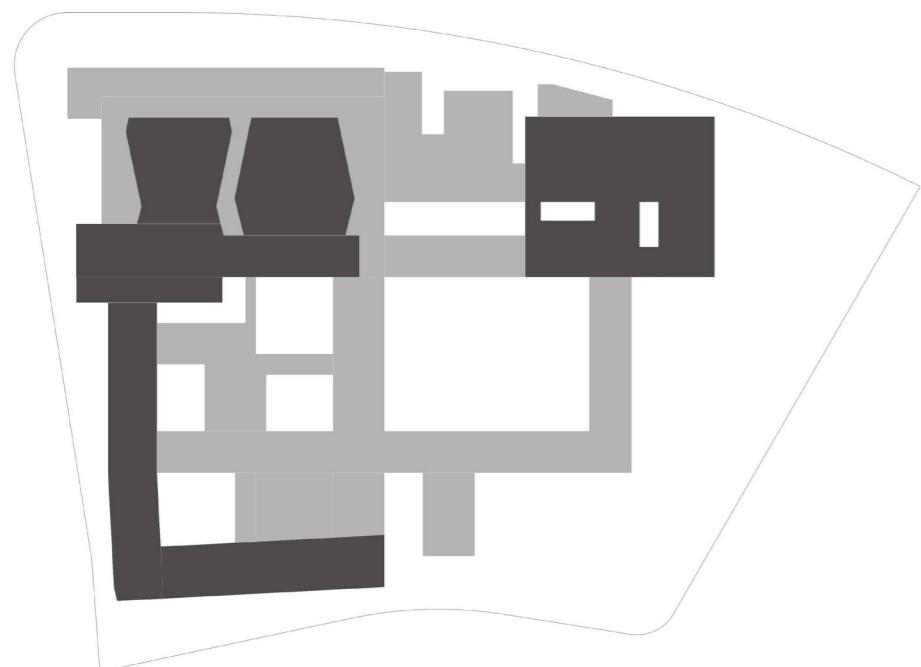


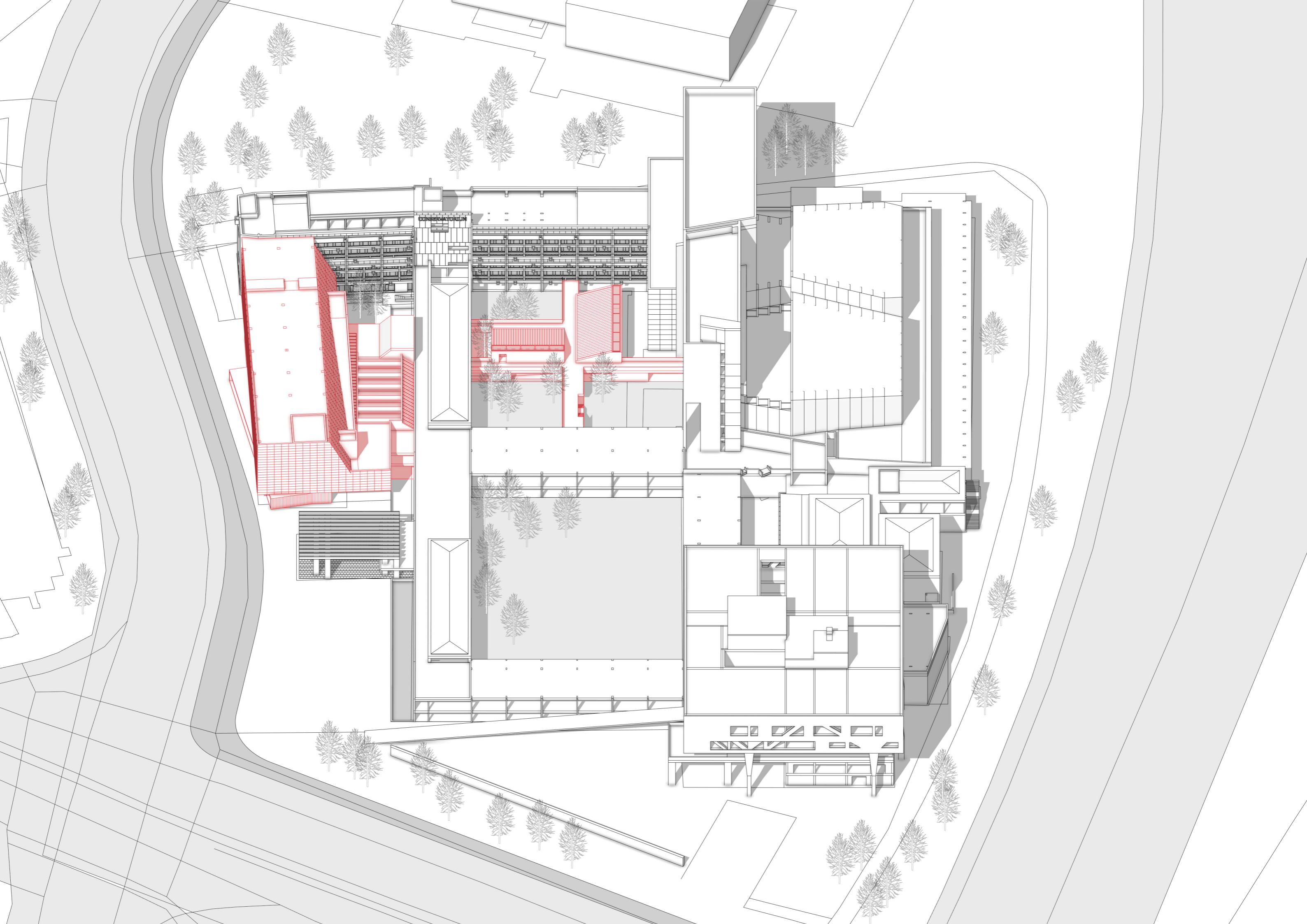
Future
north wing + loops

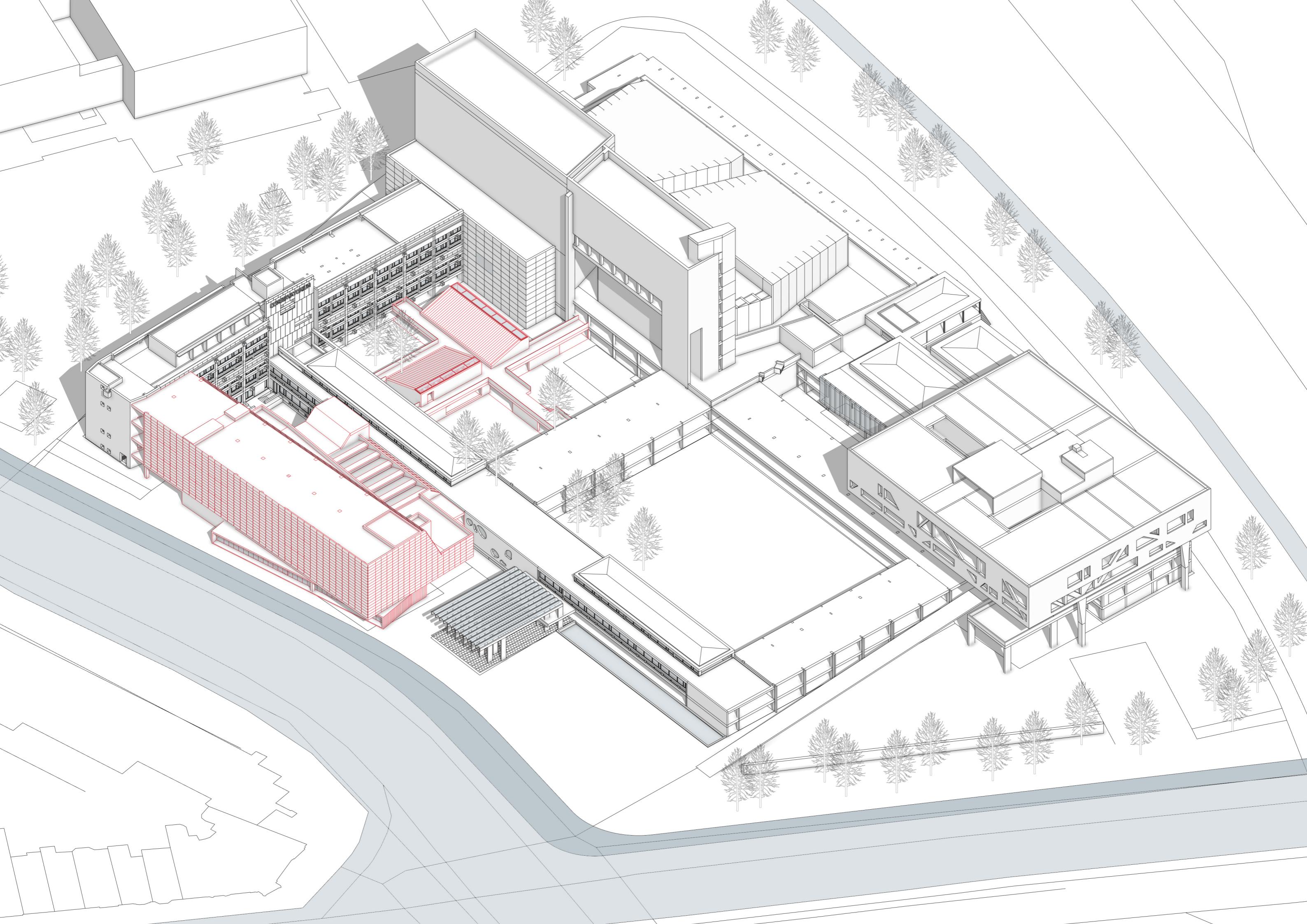
Before

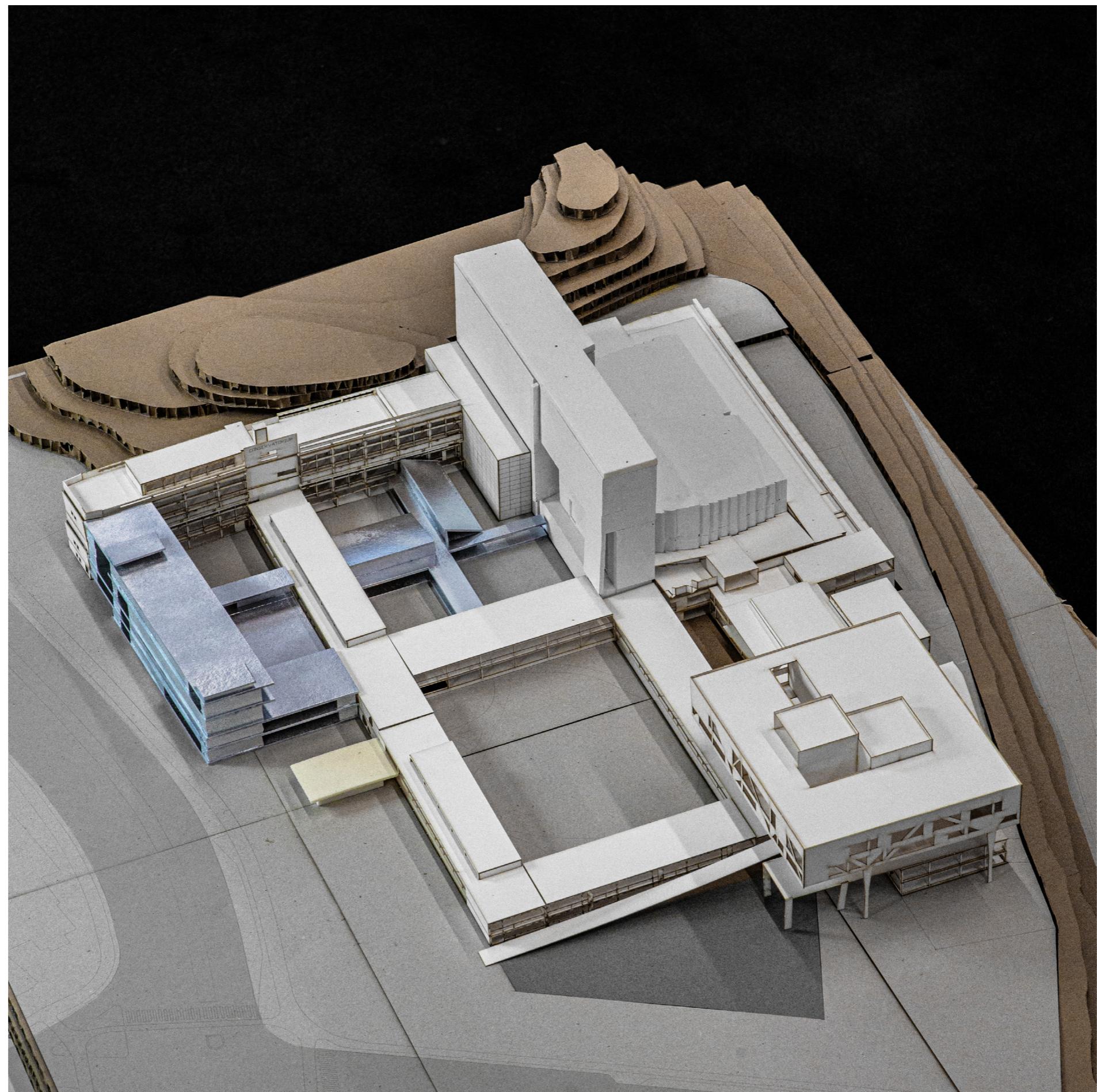


After





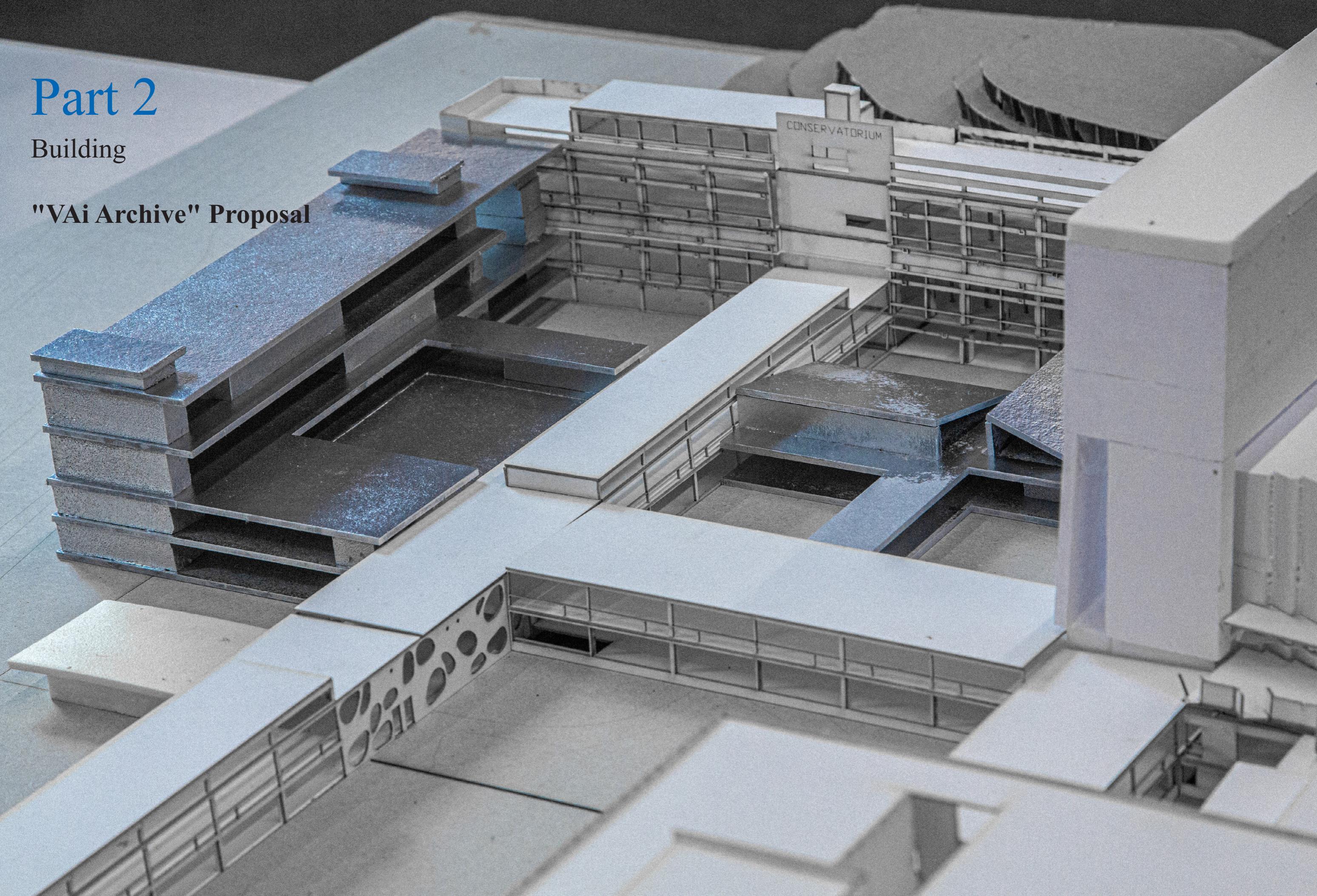




Part 2

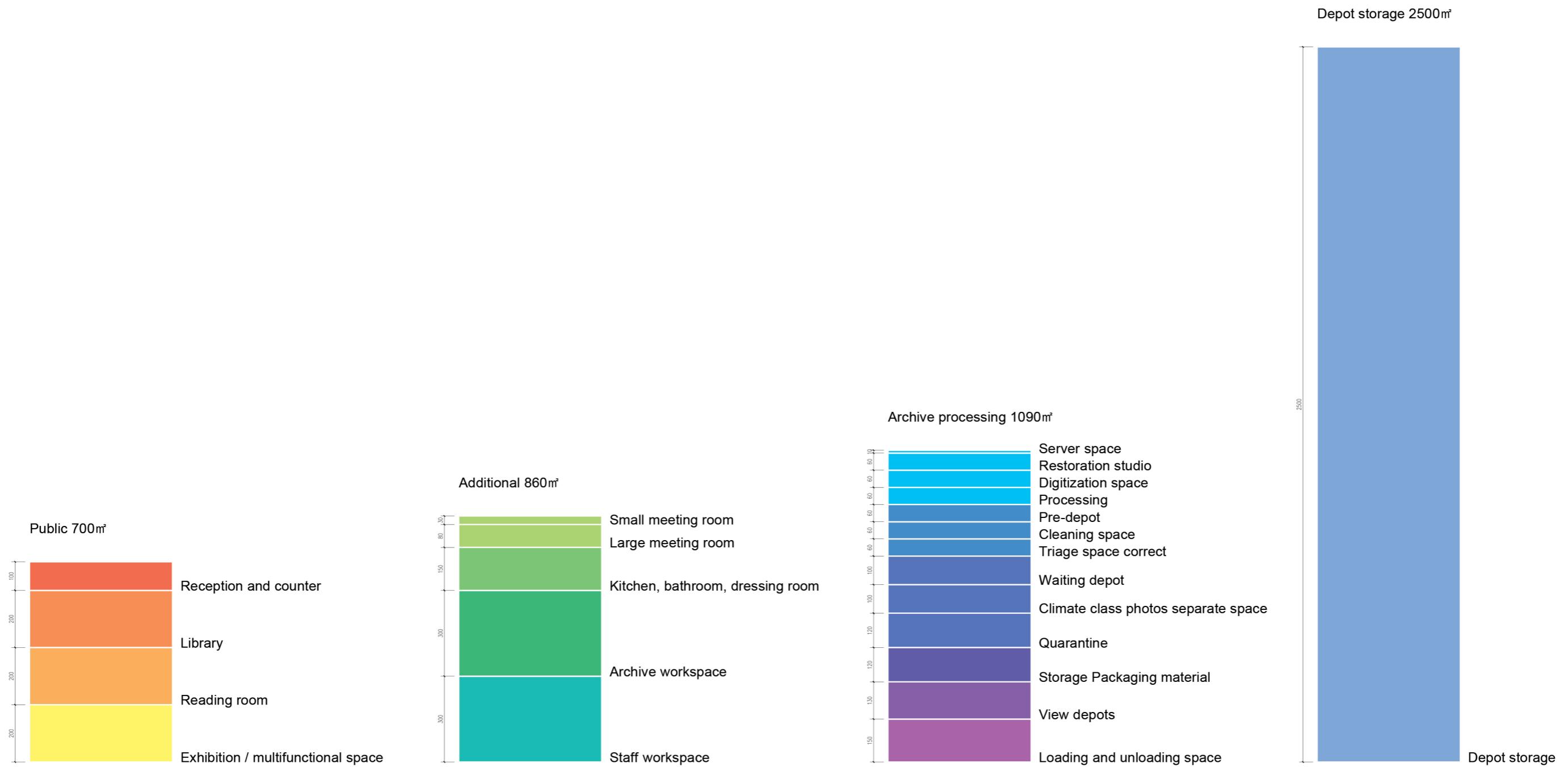
Building

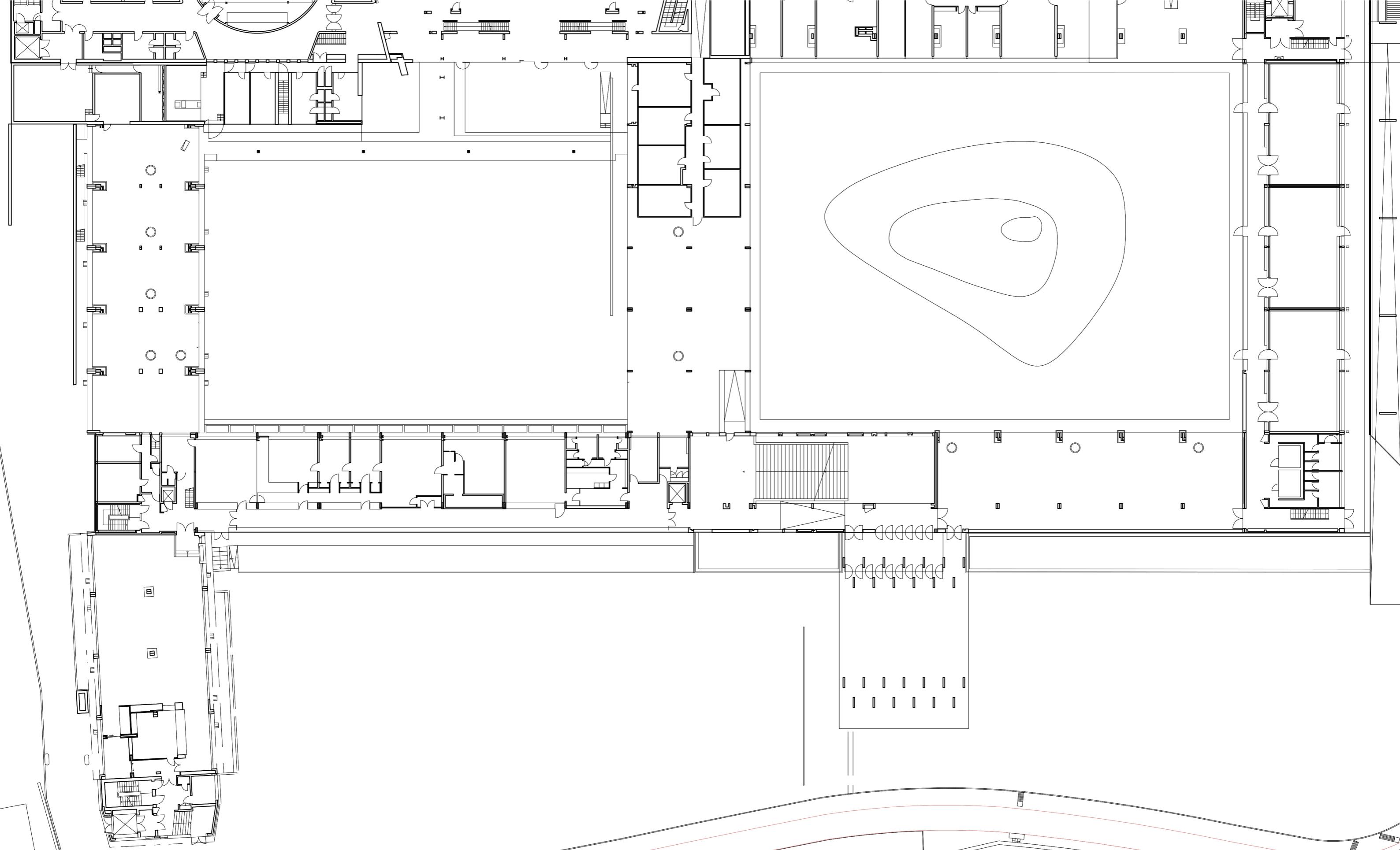
"VAi Archive" Proposal





01 Function

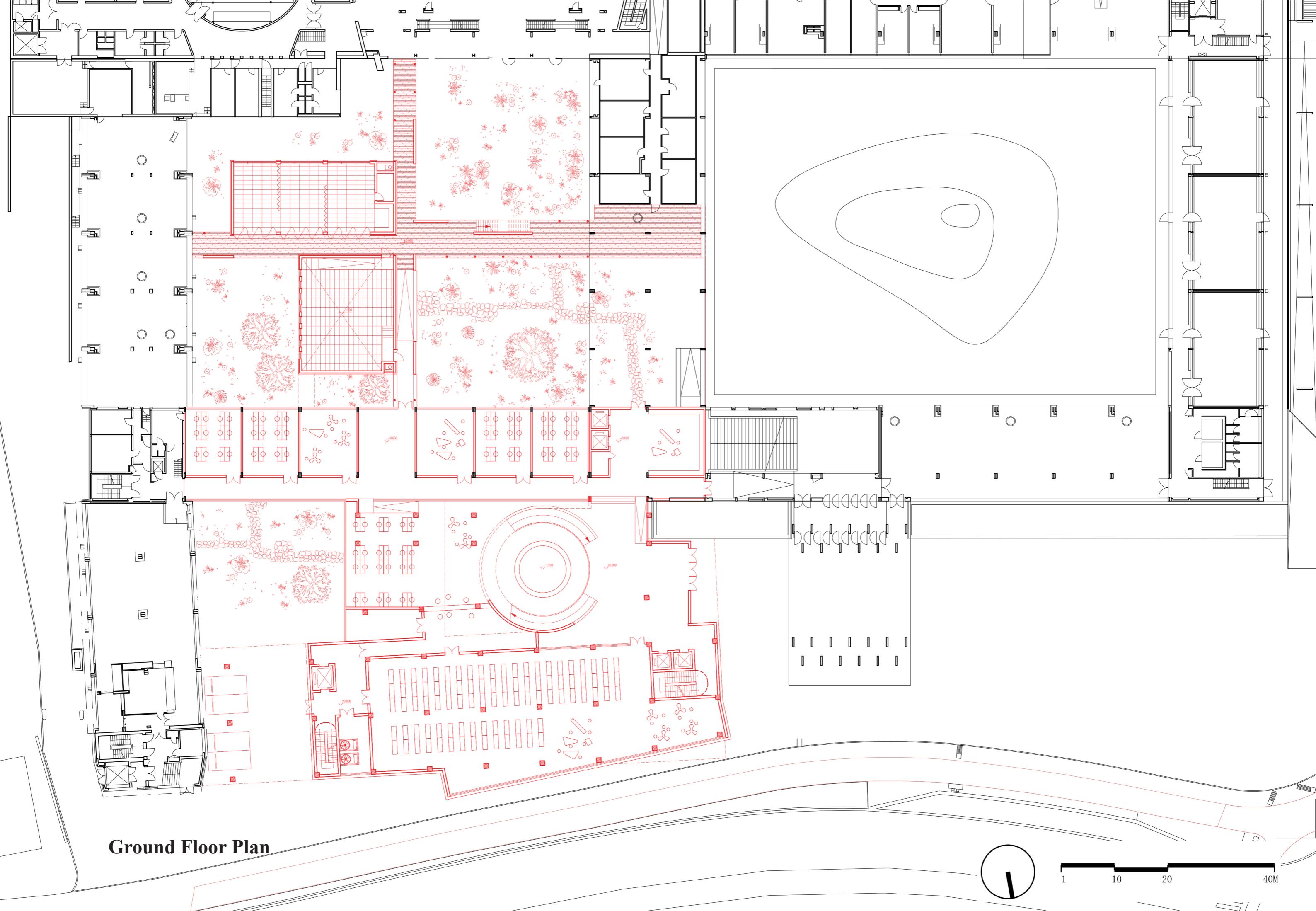




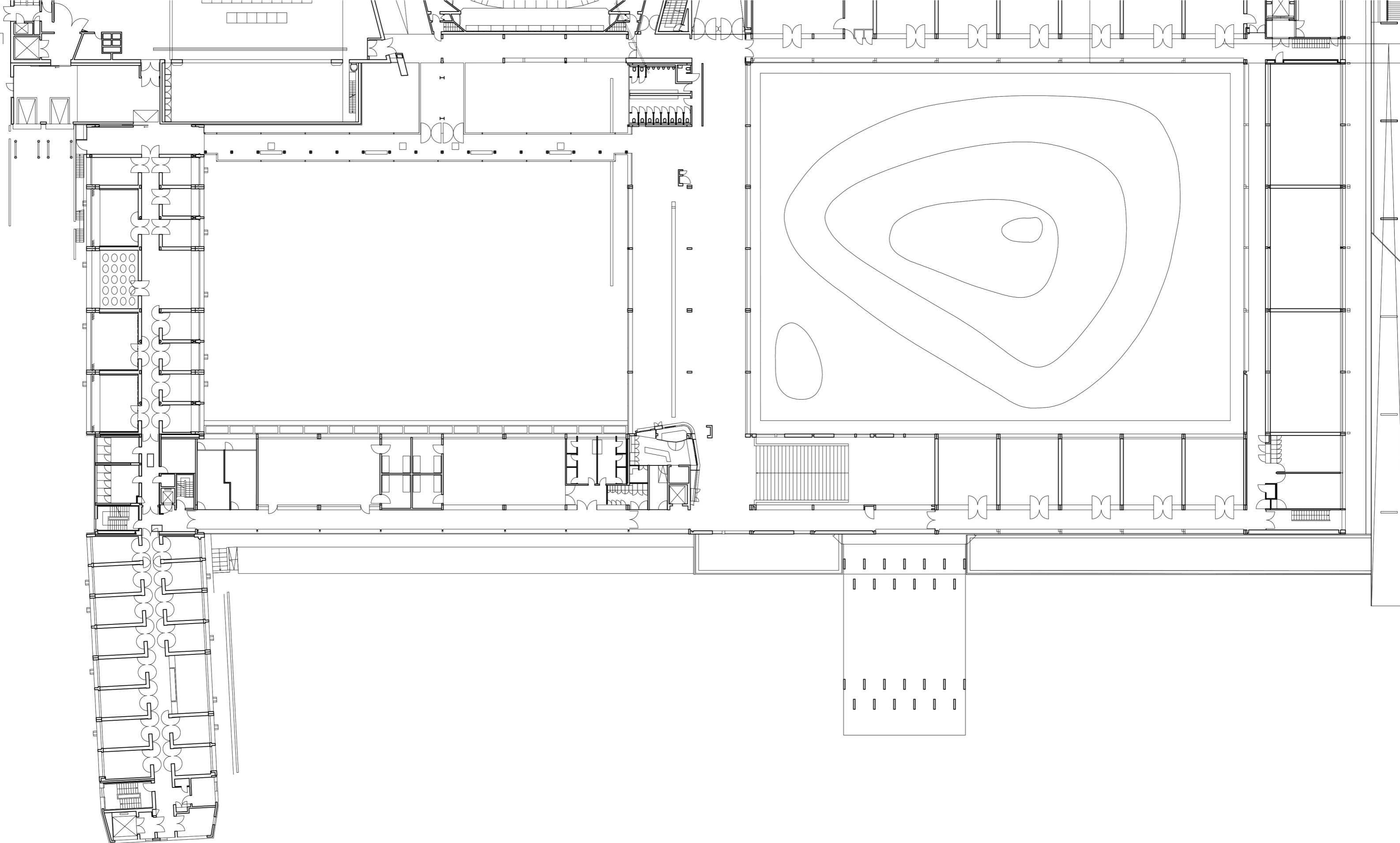
Ground Floor Plan

1 10 20 40M

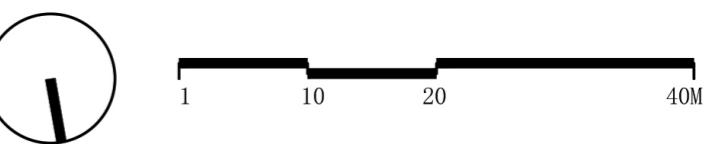


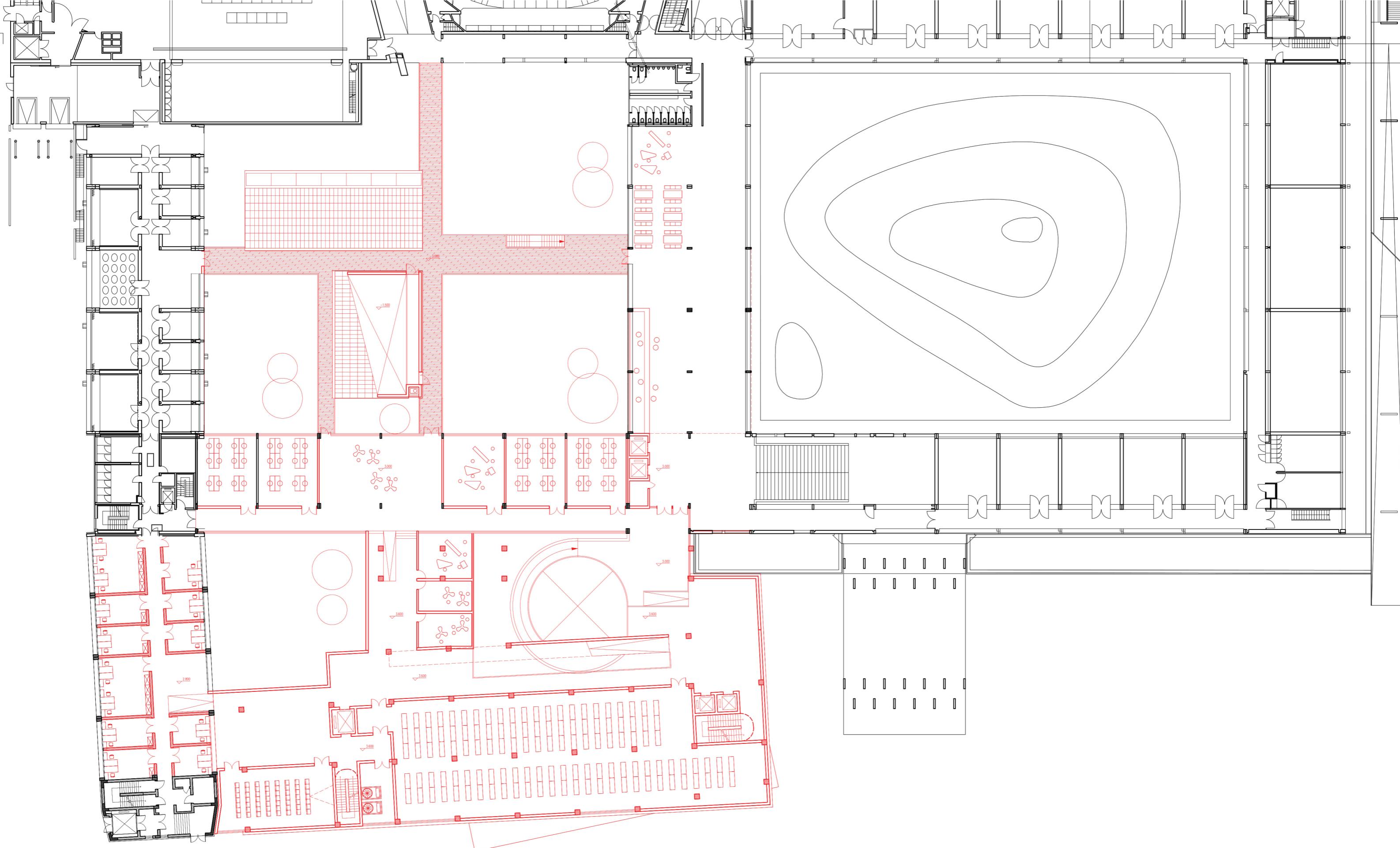




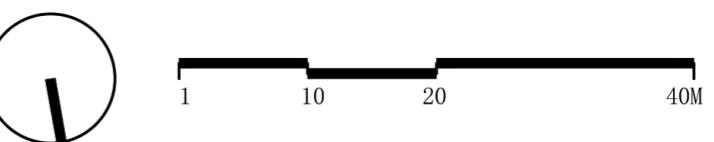


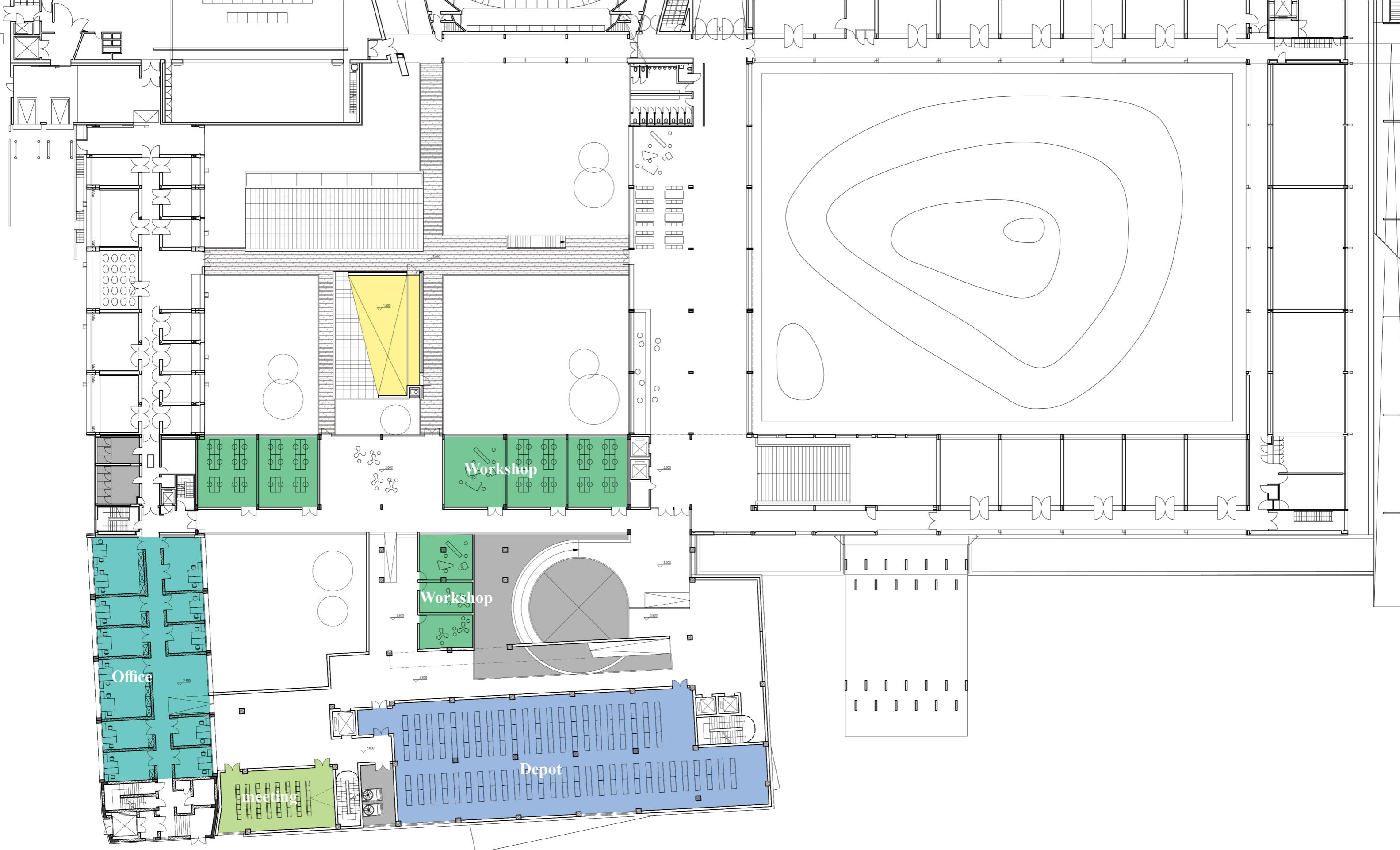
1st Floor Plan



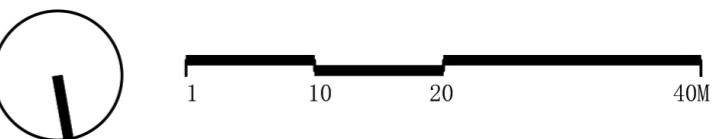


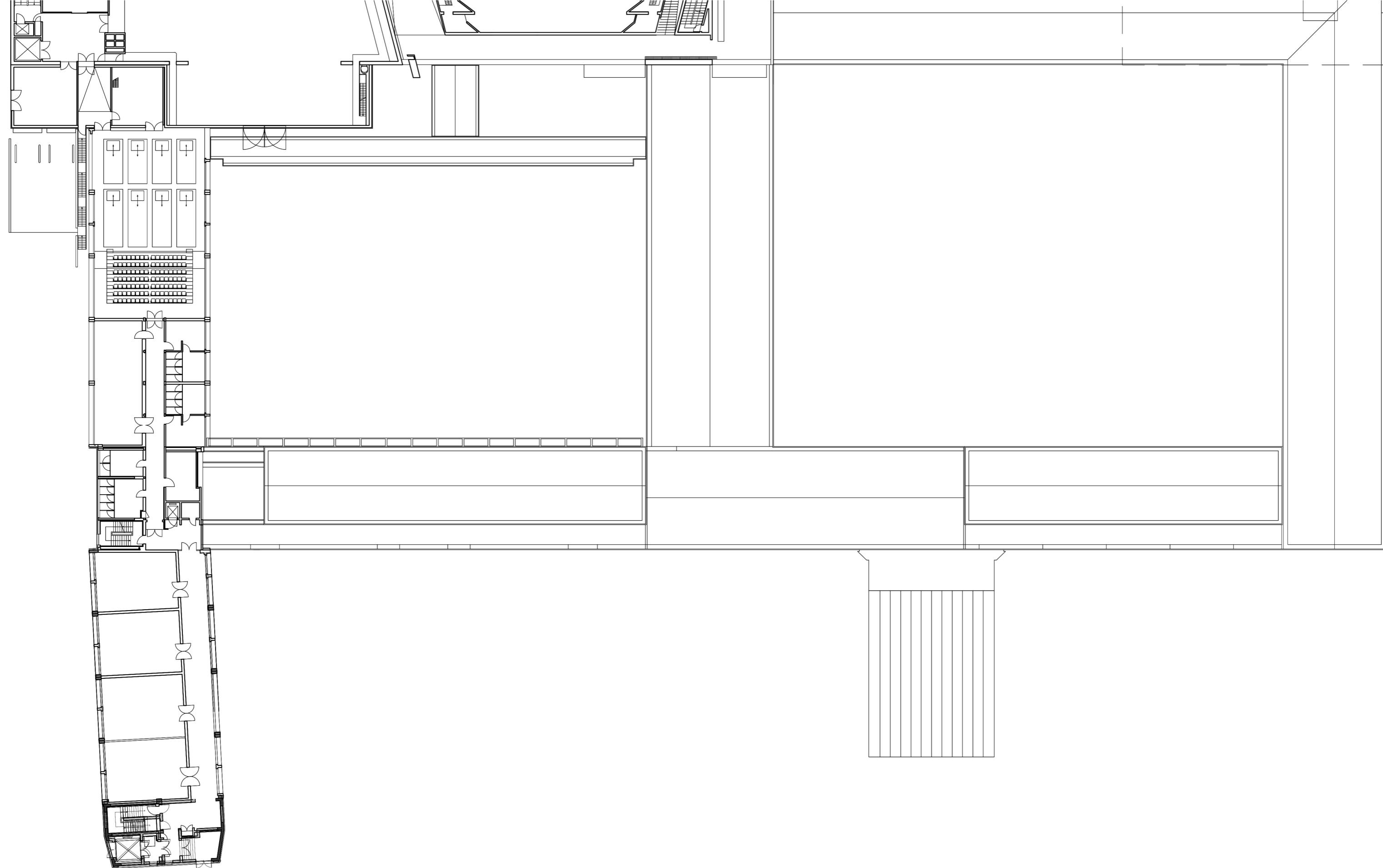
1st Floor Plan



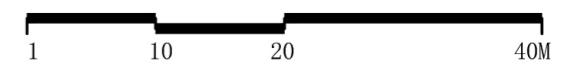


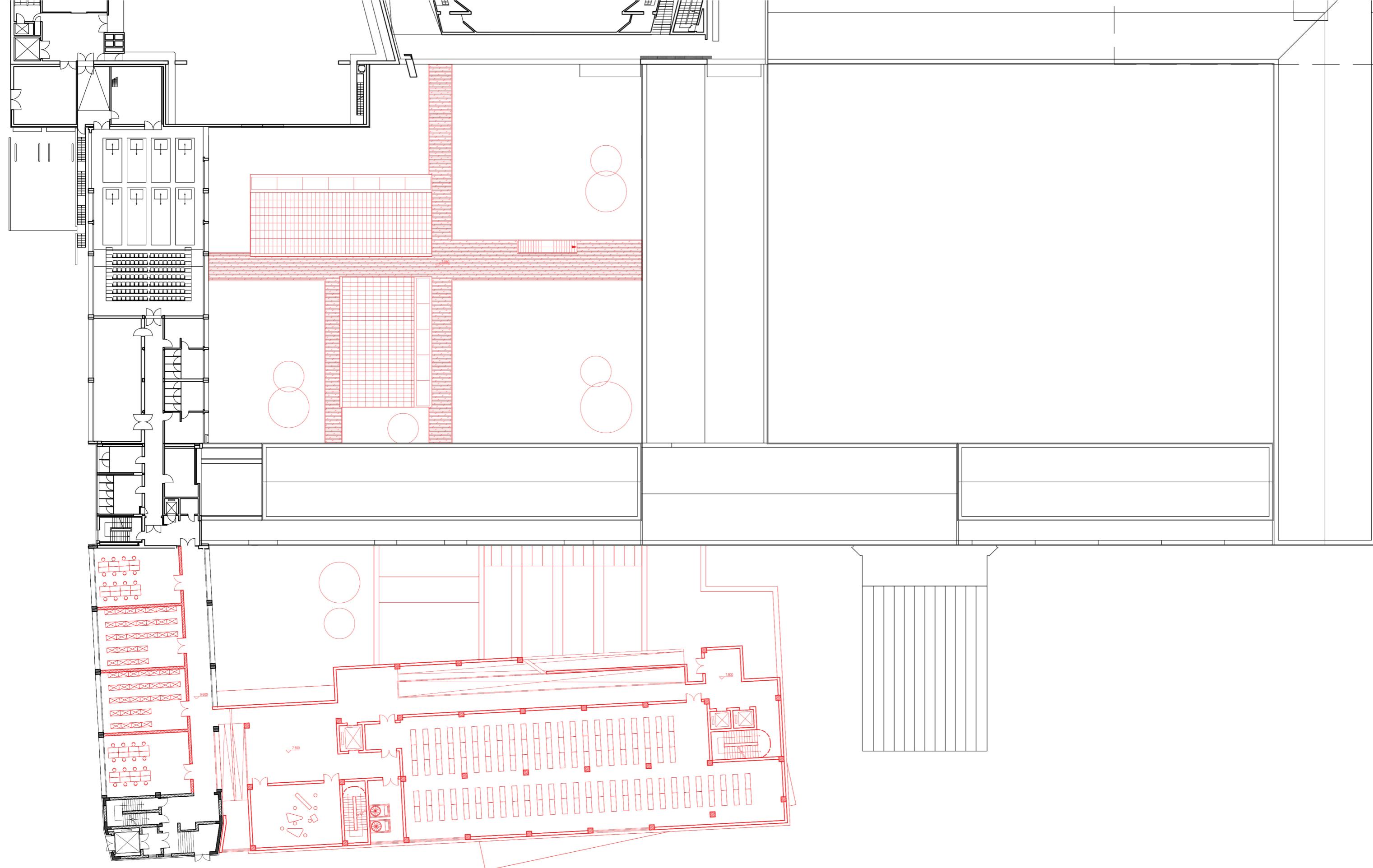
1st Floor Plan





2nd Floor Plan

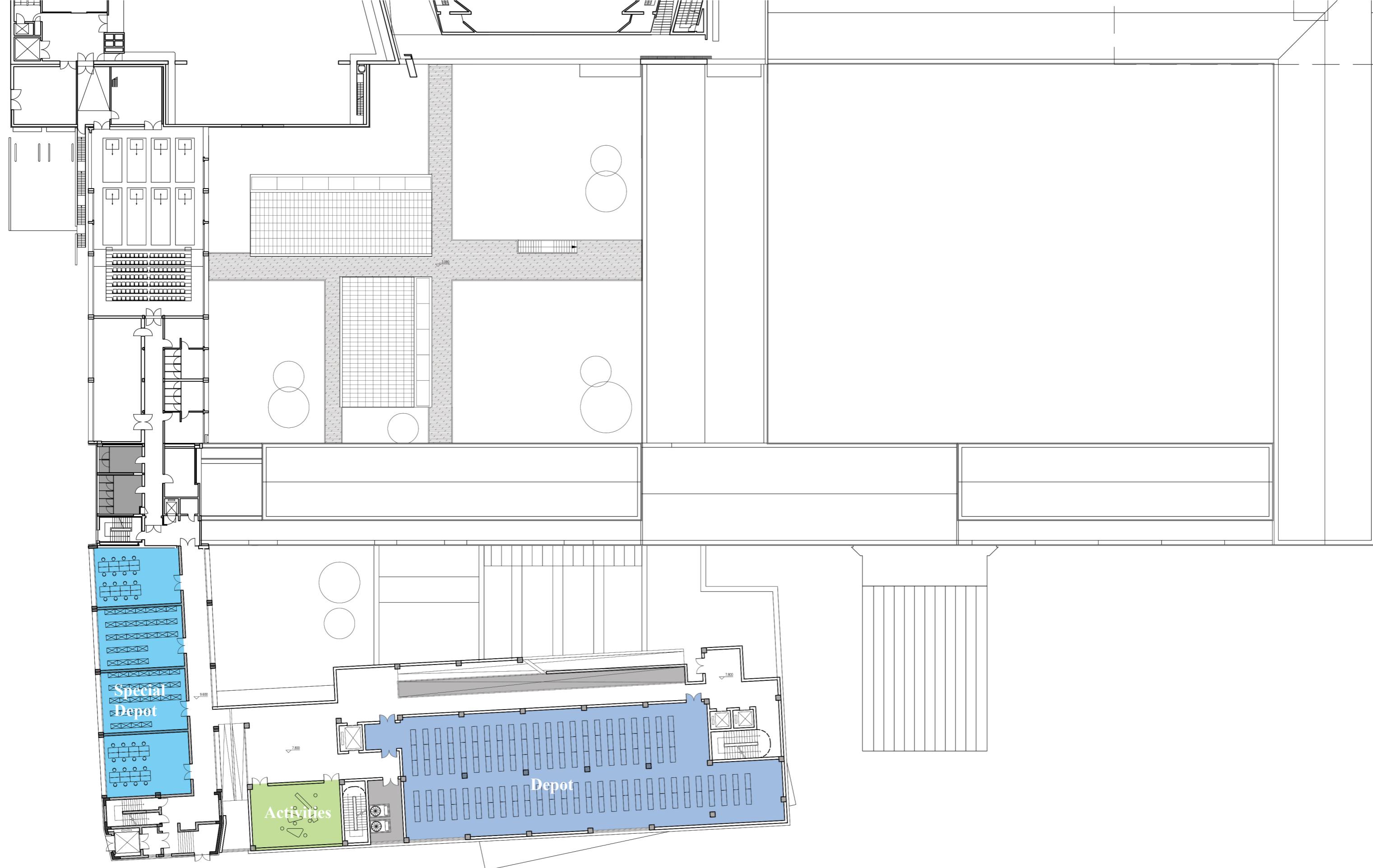




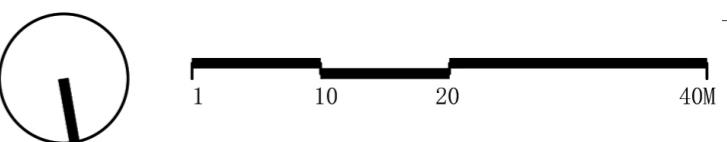
2nd Floor Plan

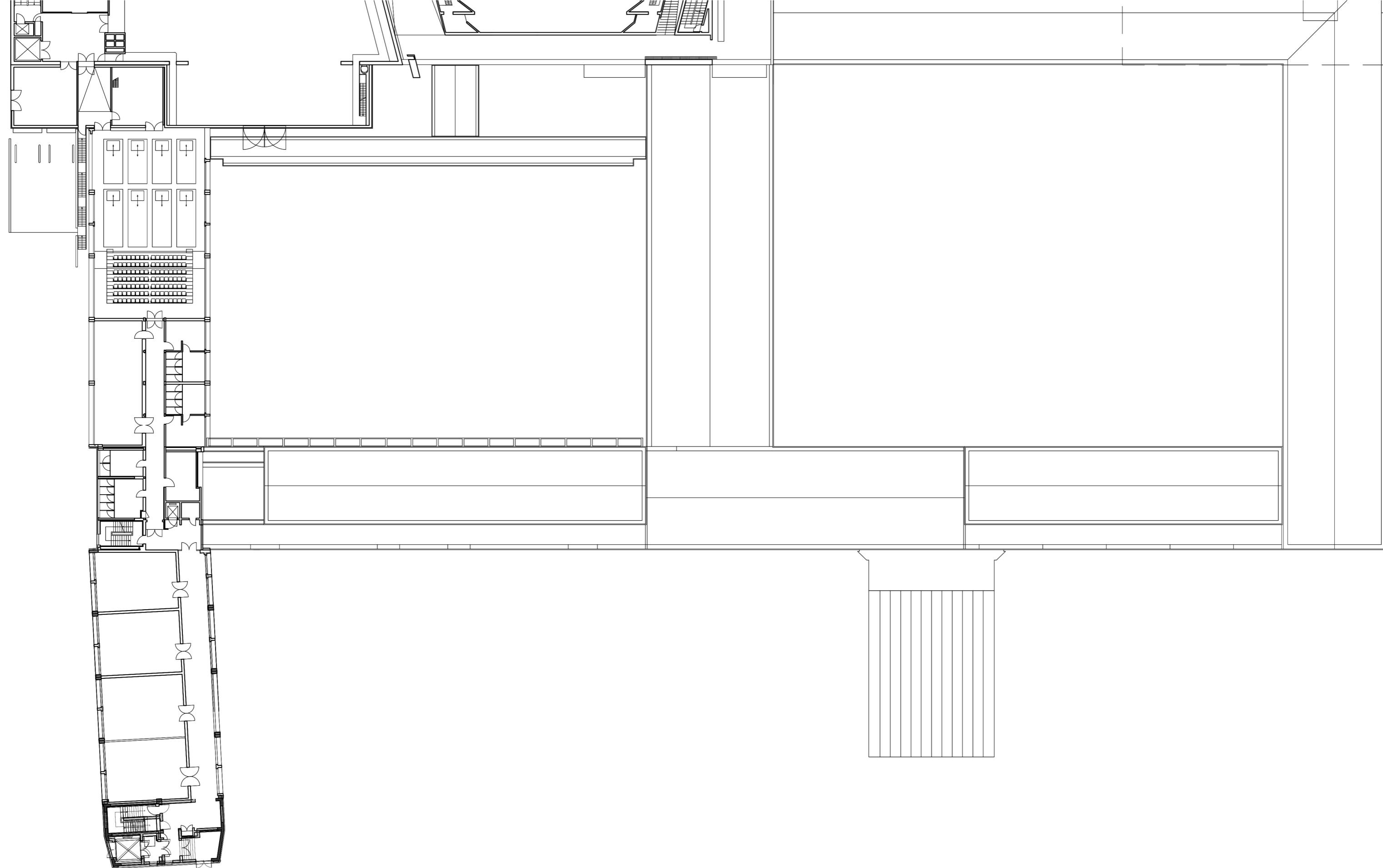


1 10 20 40M



2nd Floor Plan

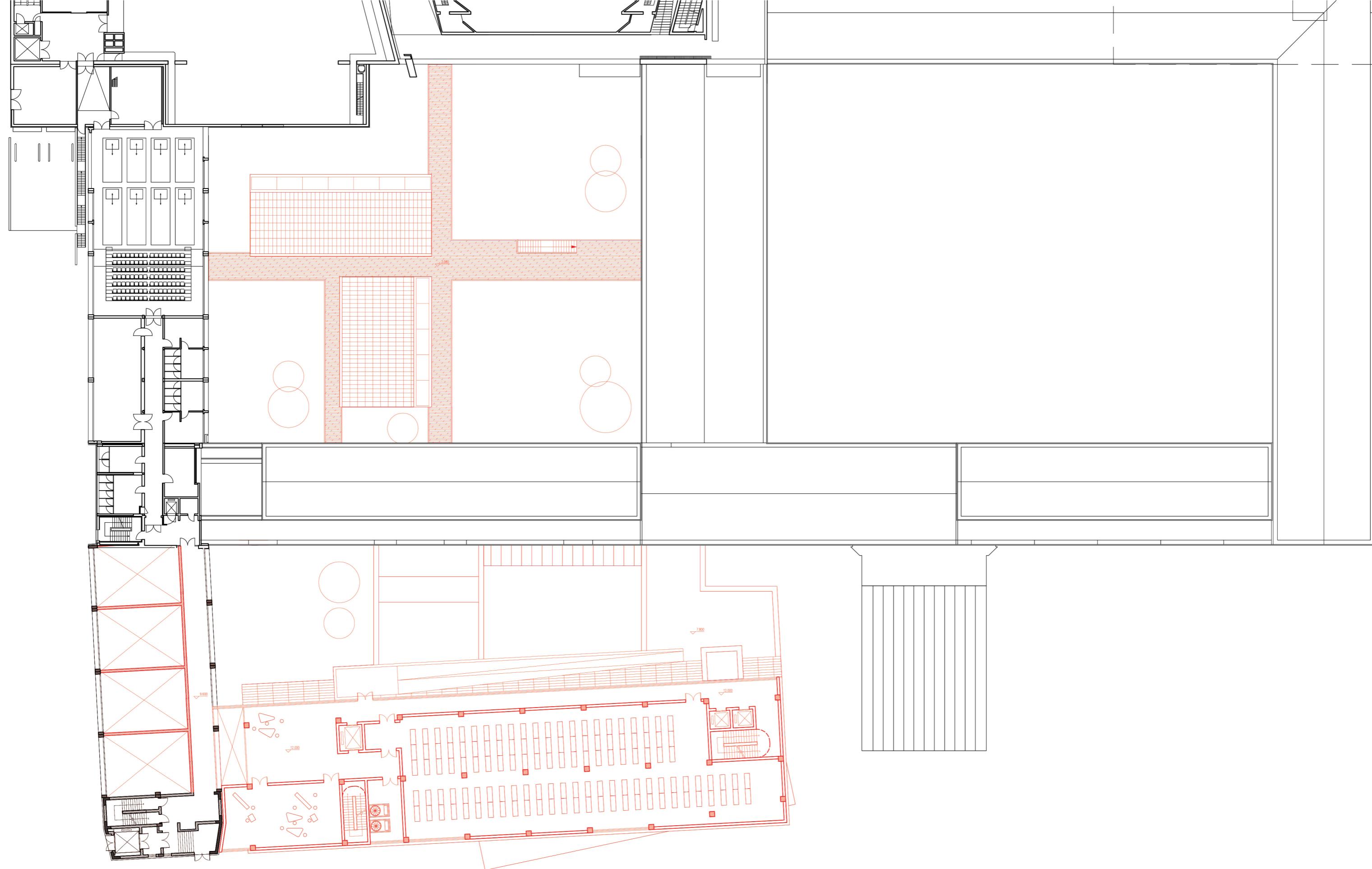




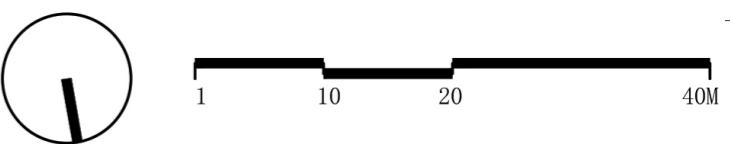
3rd Floor Plan

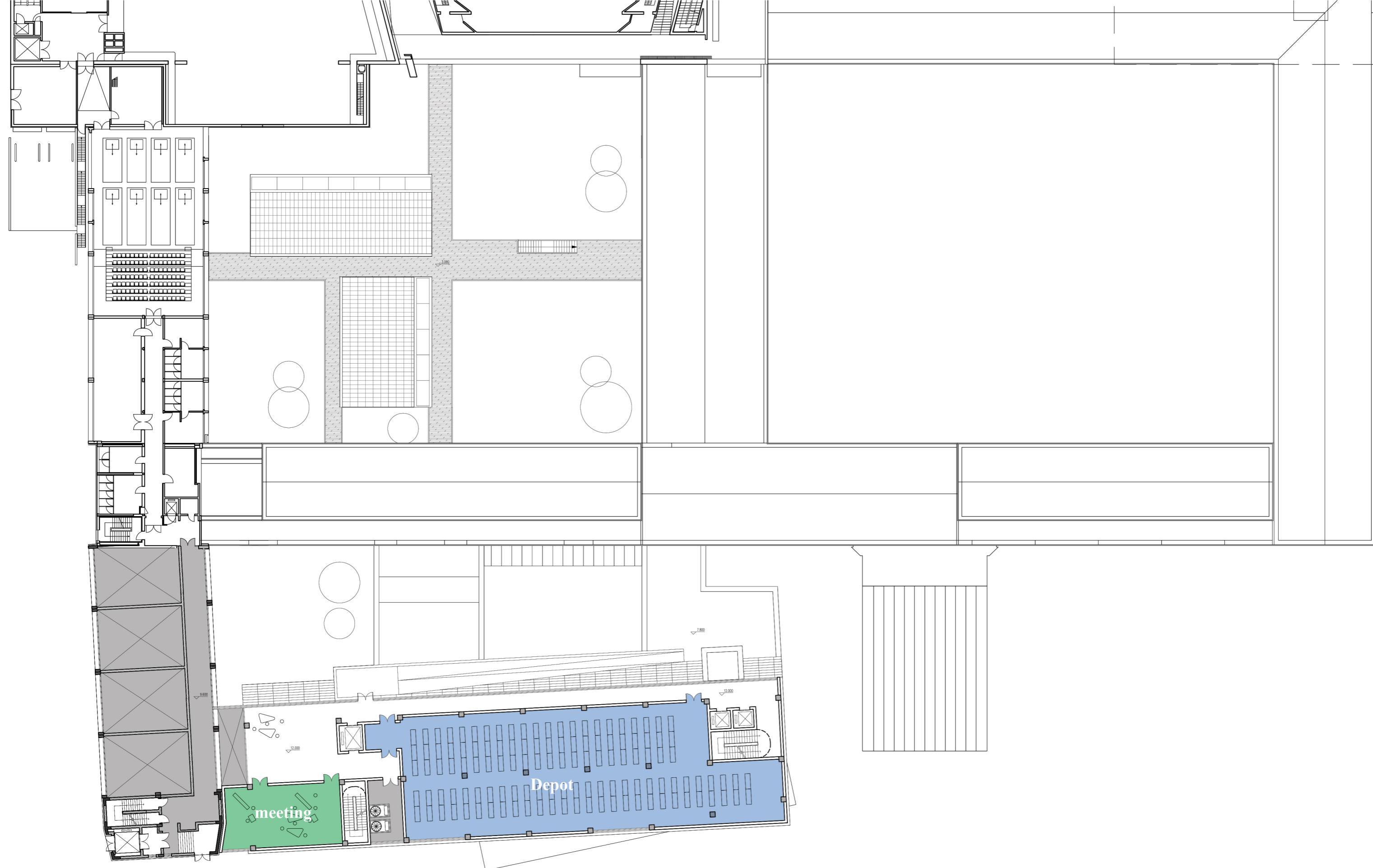


1 10 20 40M

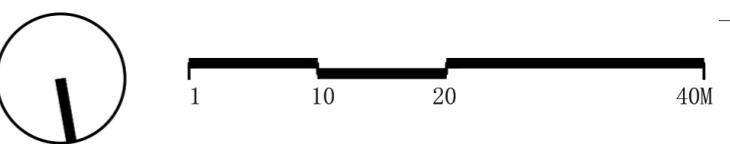


3rd Floor Plan

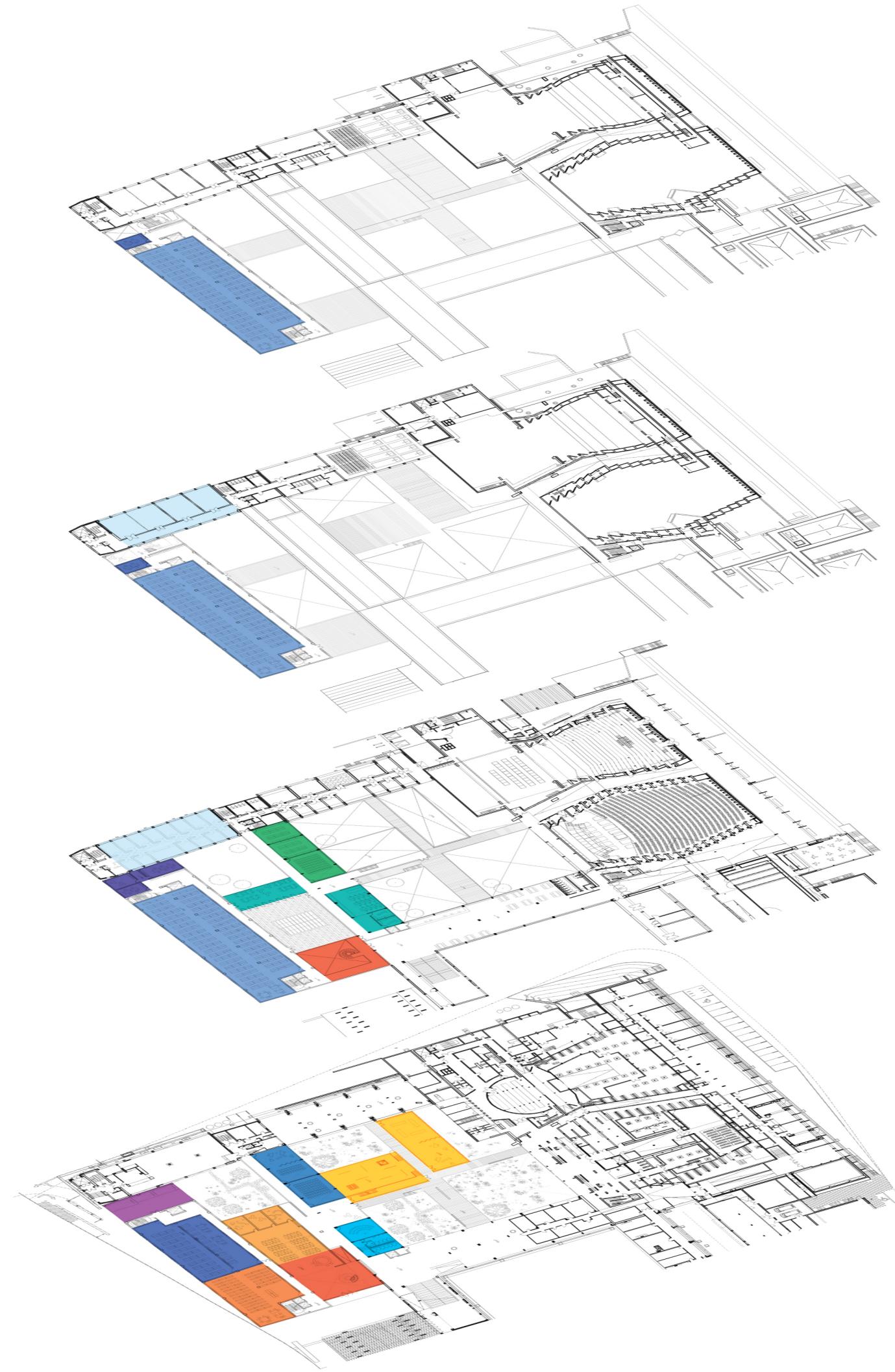




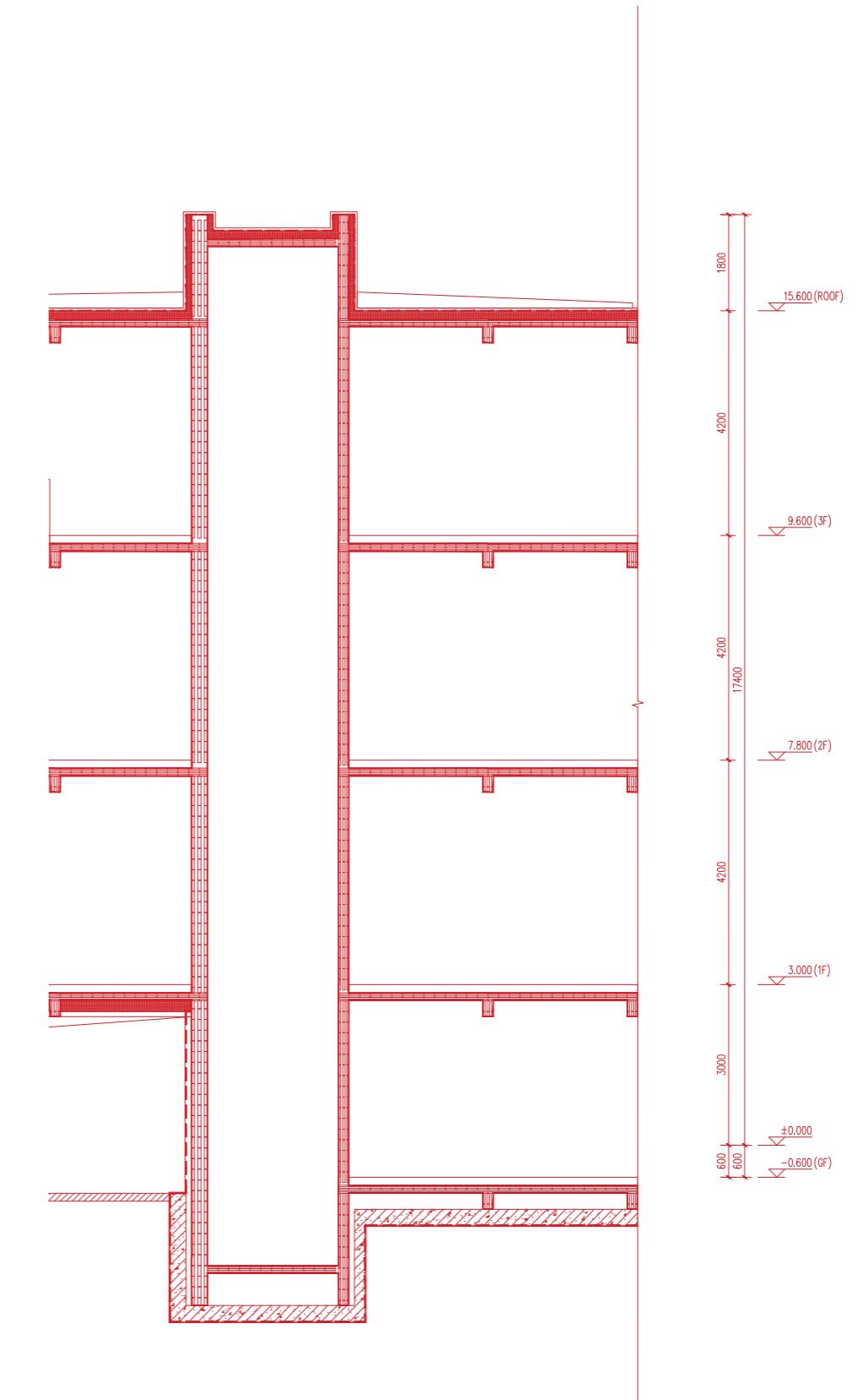
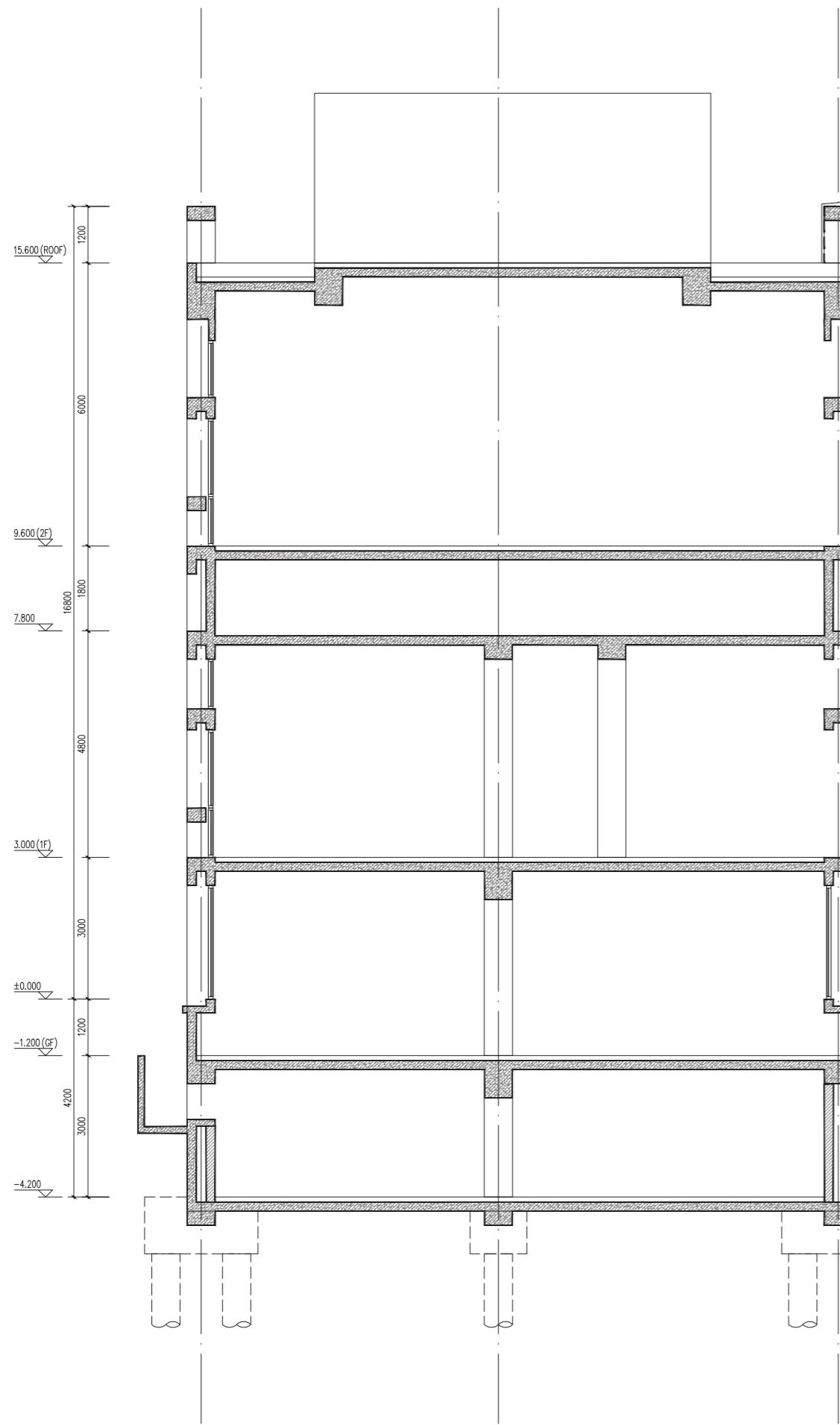
3rd Floor Plan



Function Analysis

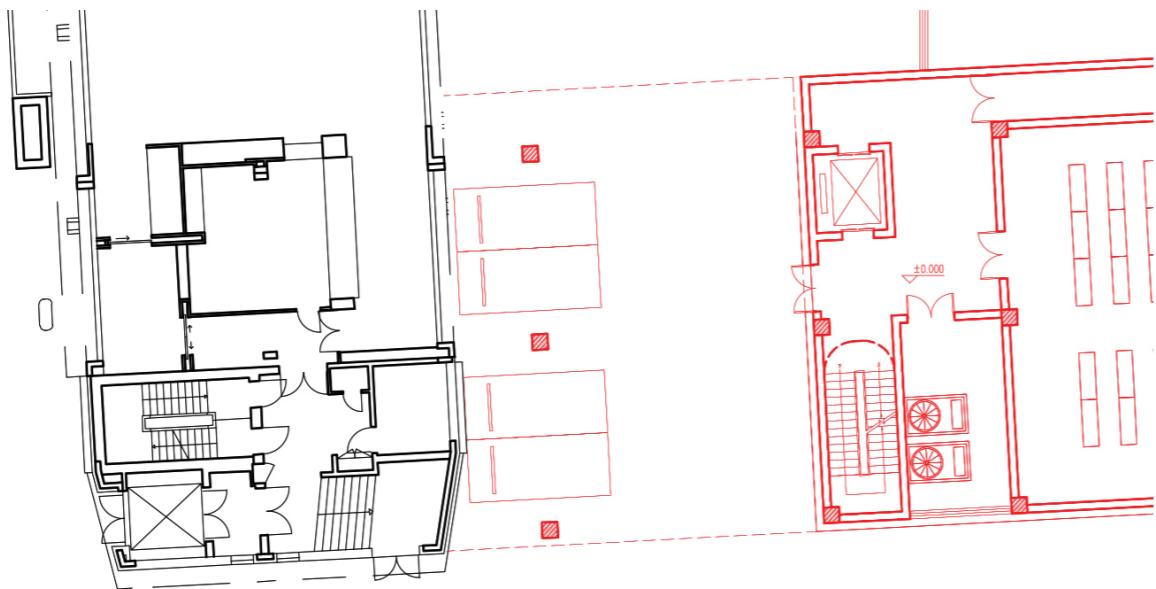


02 Section

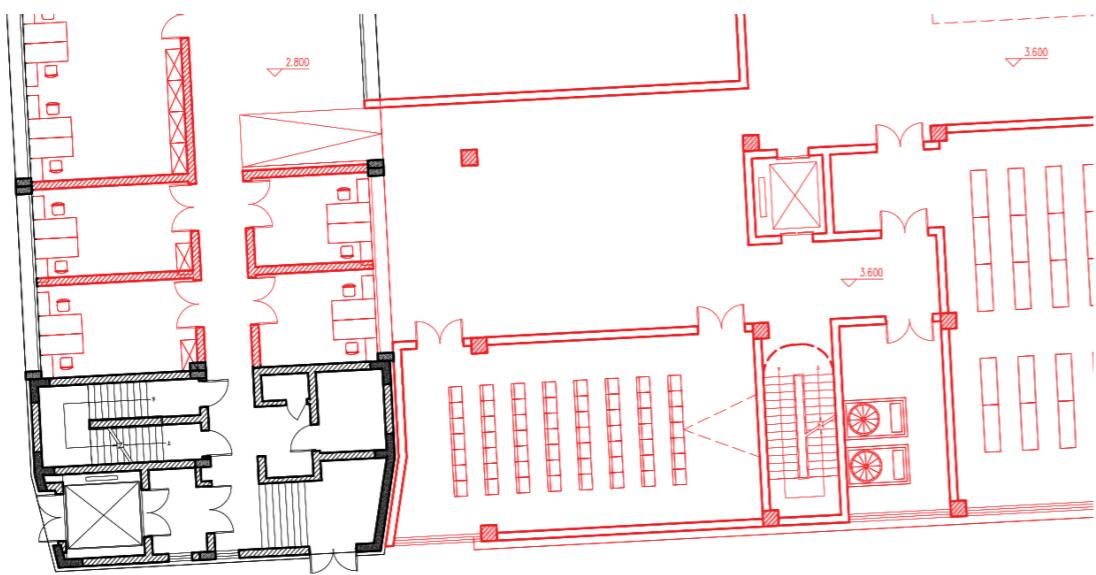


From this partial section, it can be seen that the floor height of each floor of the 1980's De Meyer / Stynen wing is not consistent, while the archive storage space of the archive requires a relatively standard and consistent floor height.

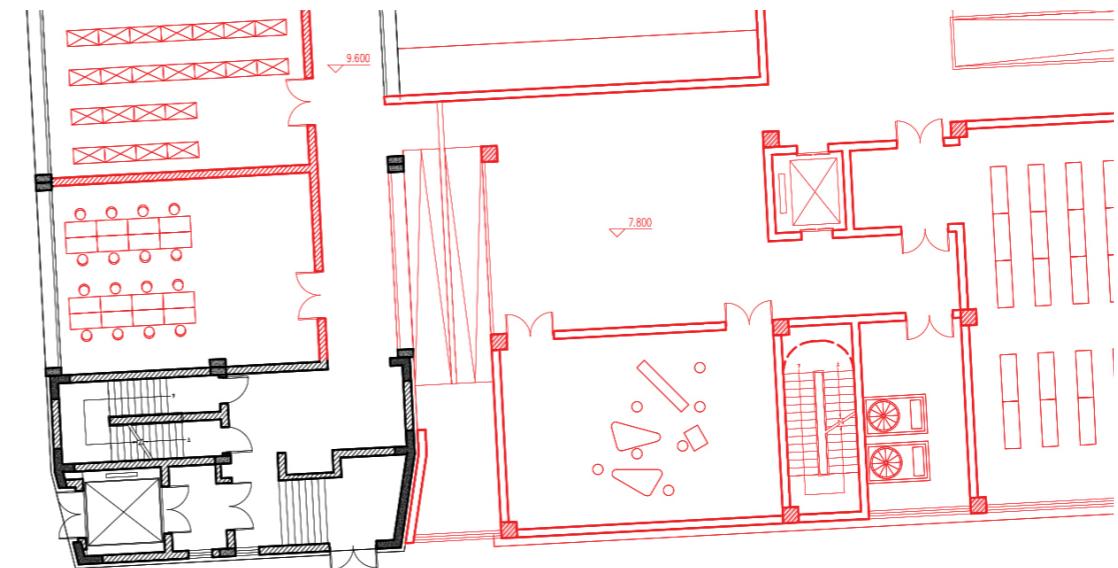
Therefore, the new proposal is placed in a staircase system to connect the functions of the new and old spaces. The ground floor is an outdoor parking and unloading site; the first floor is a relatively complete conference room or multi-functional hall; the second and third floors are an interesting high-rise shared space shaped by stairs.



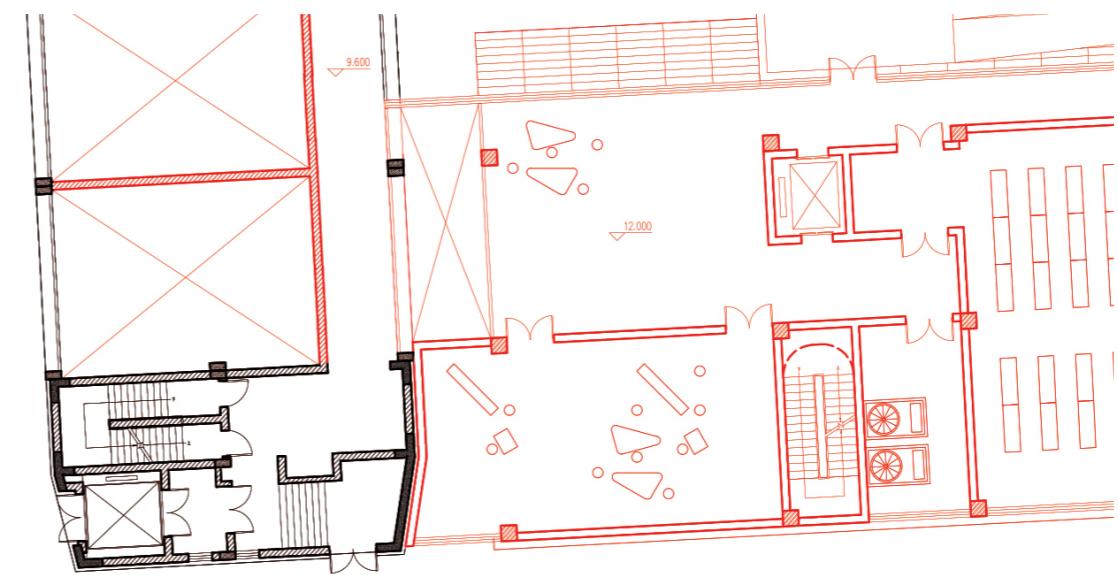
GF



1F

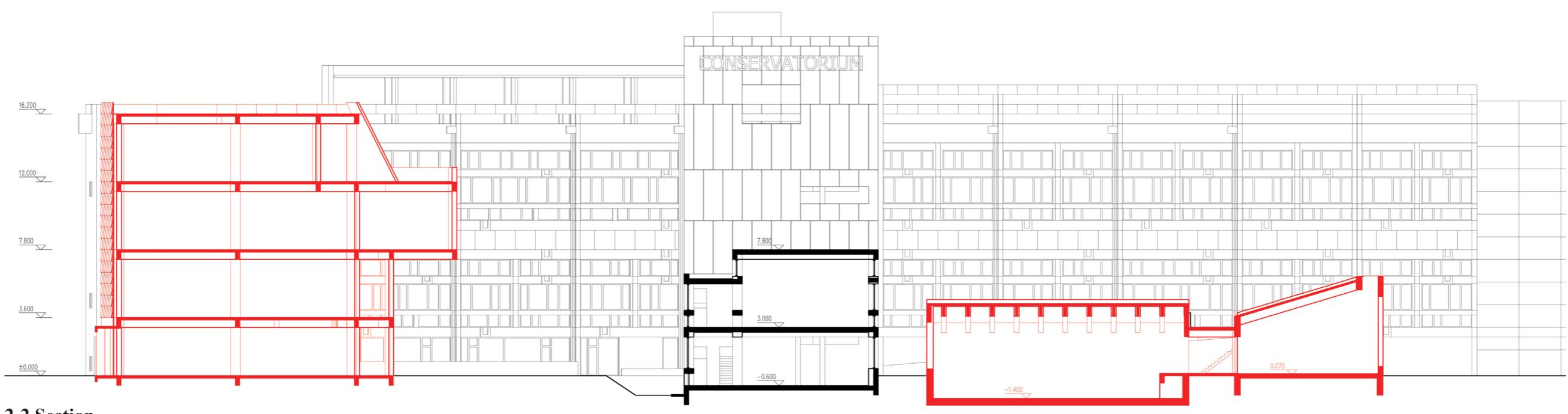
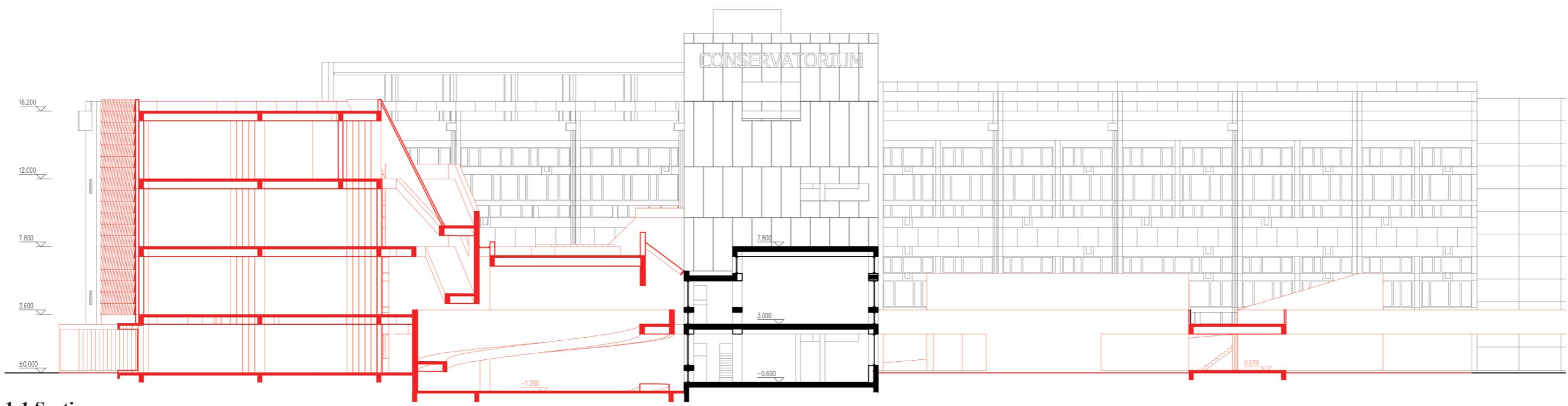


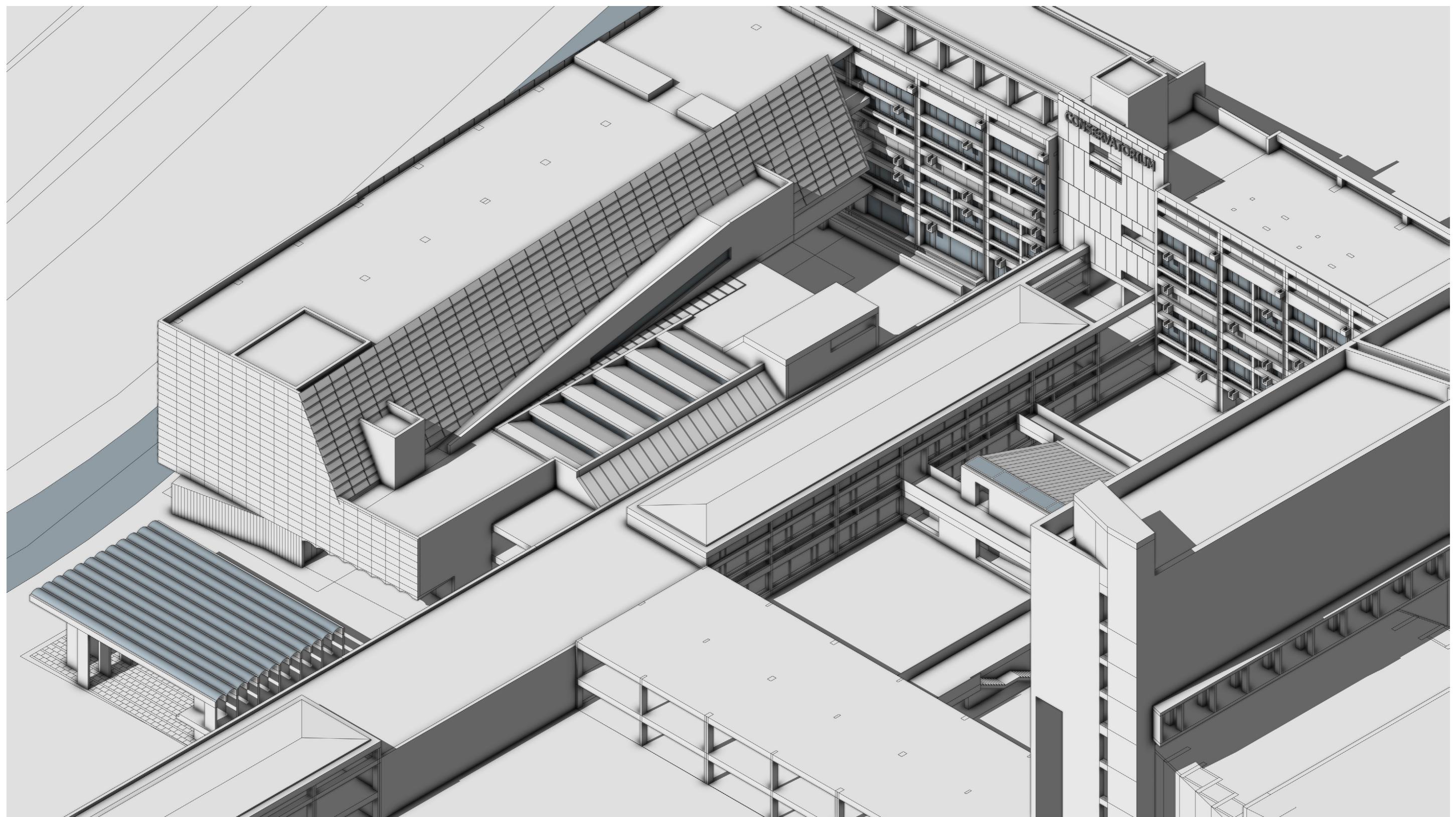
2F

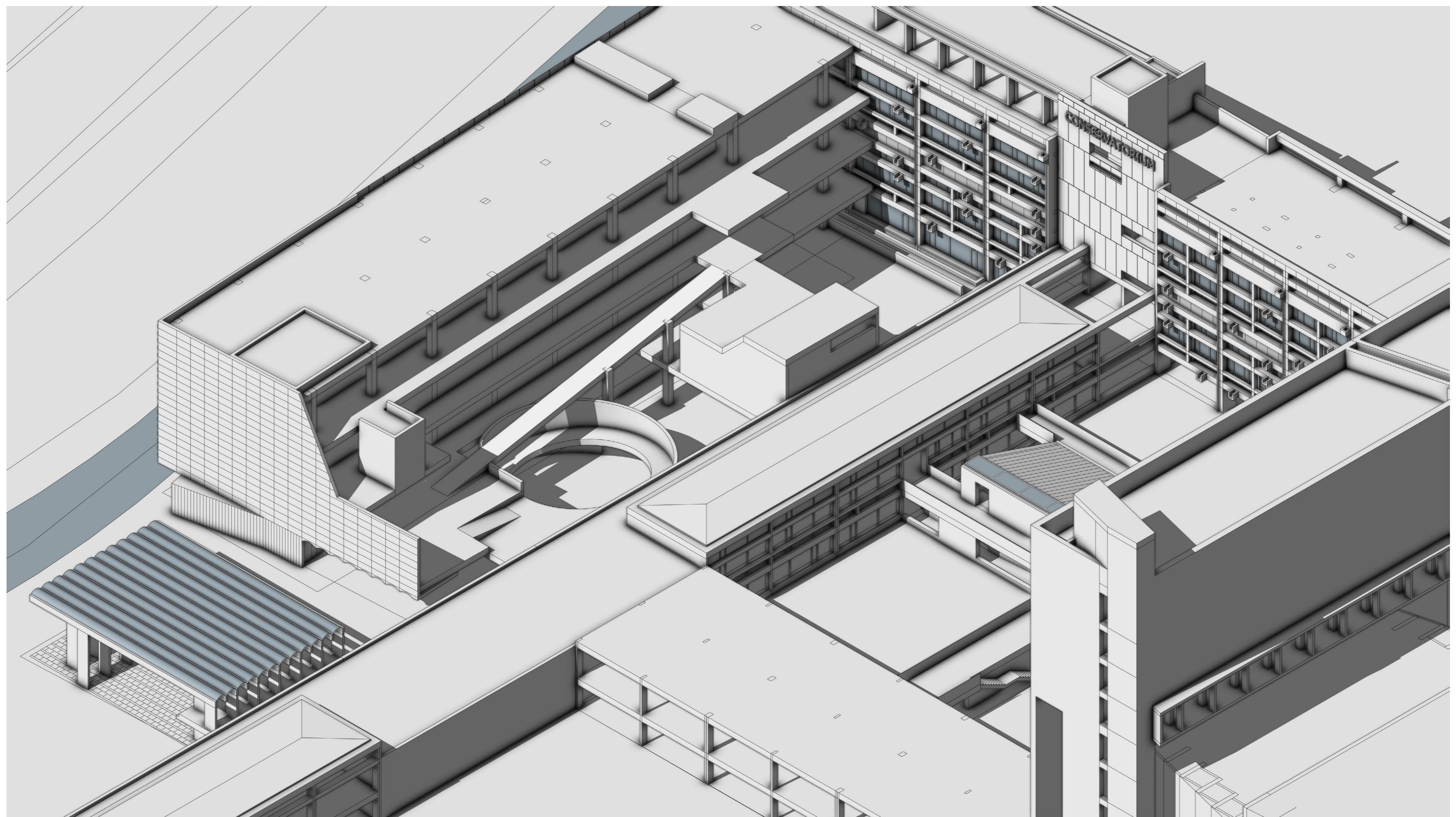


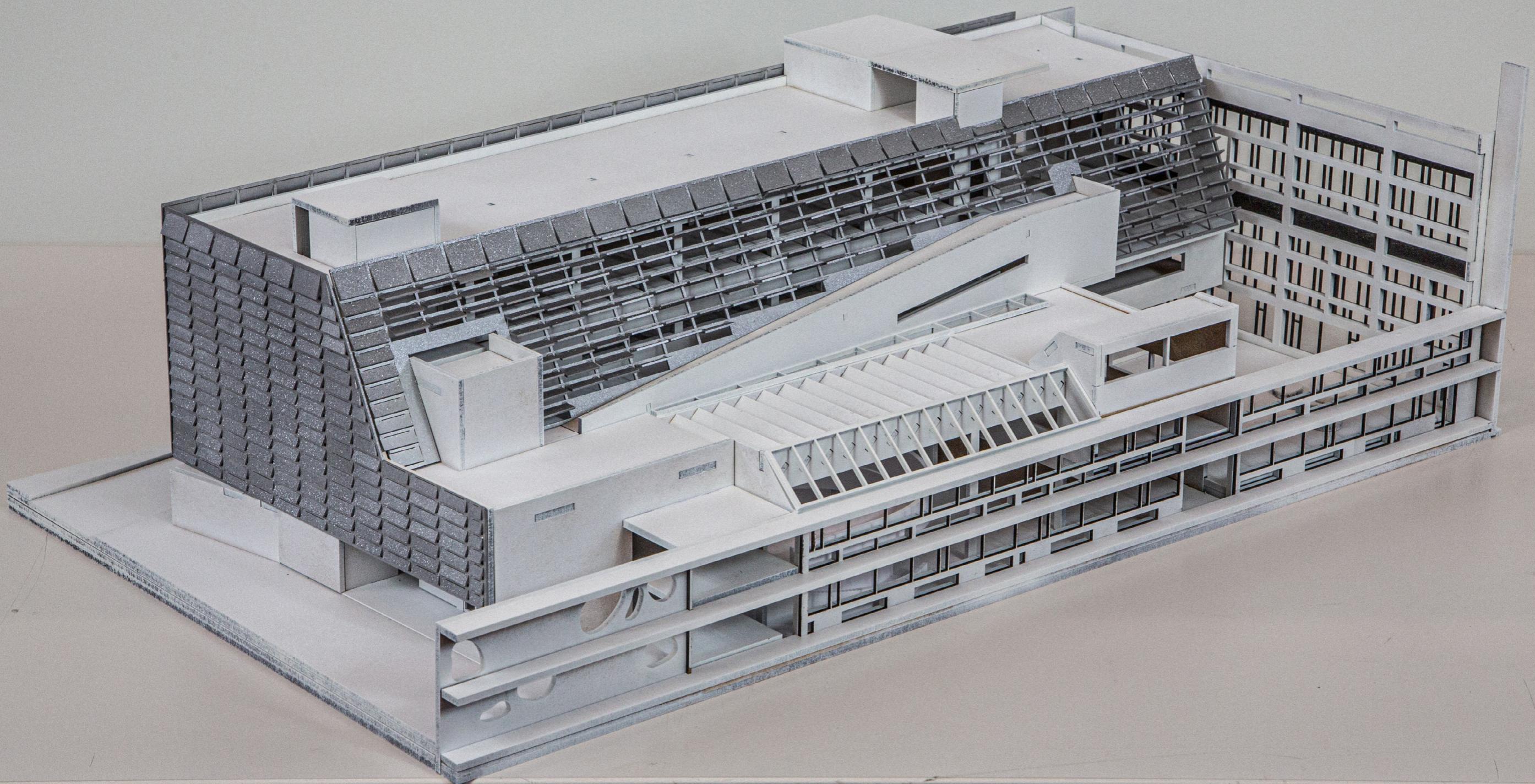
3F

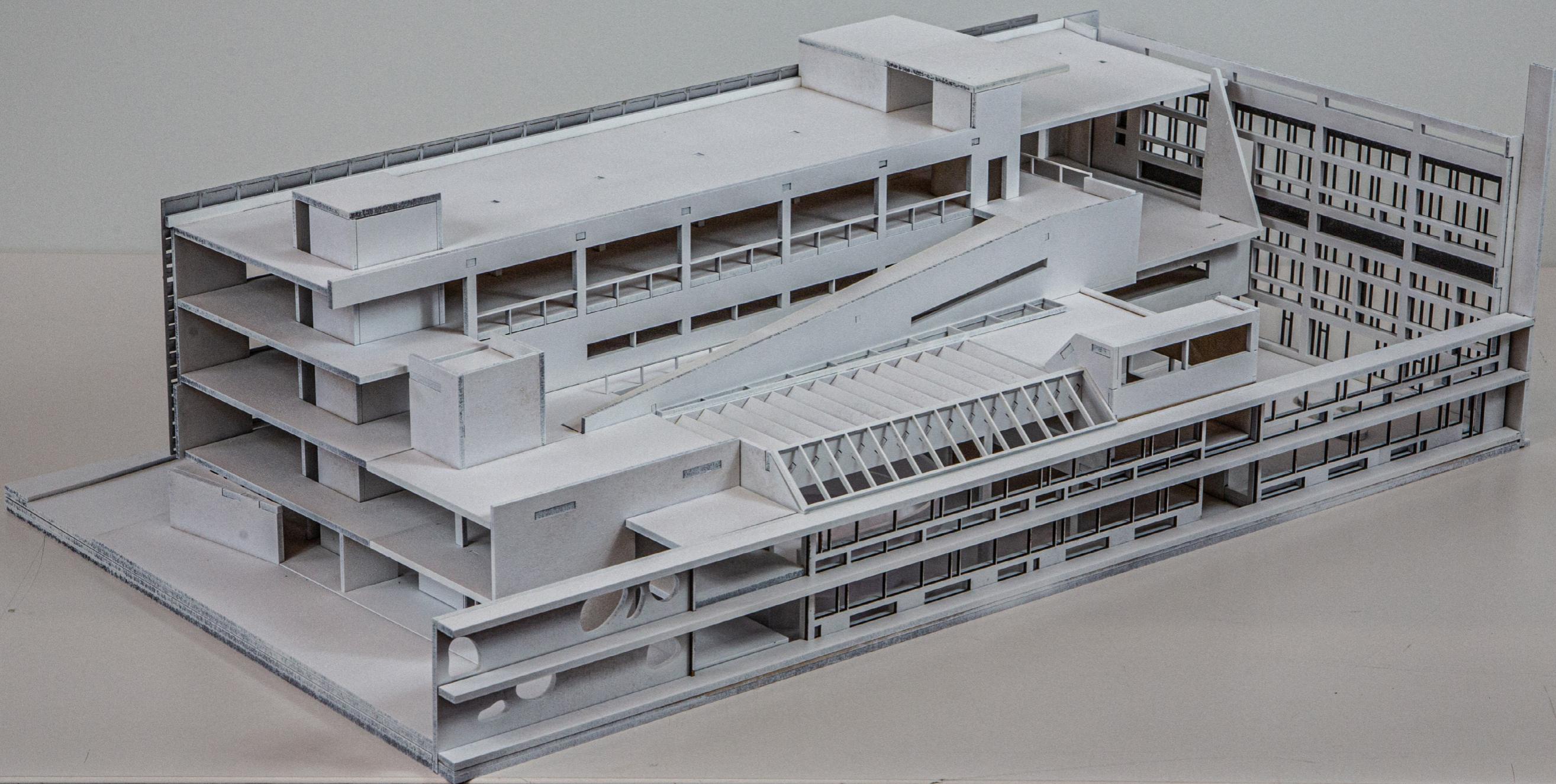
Sections

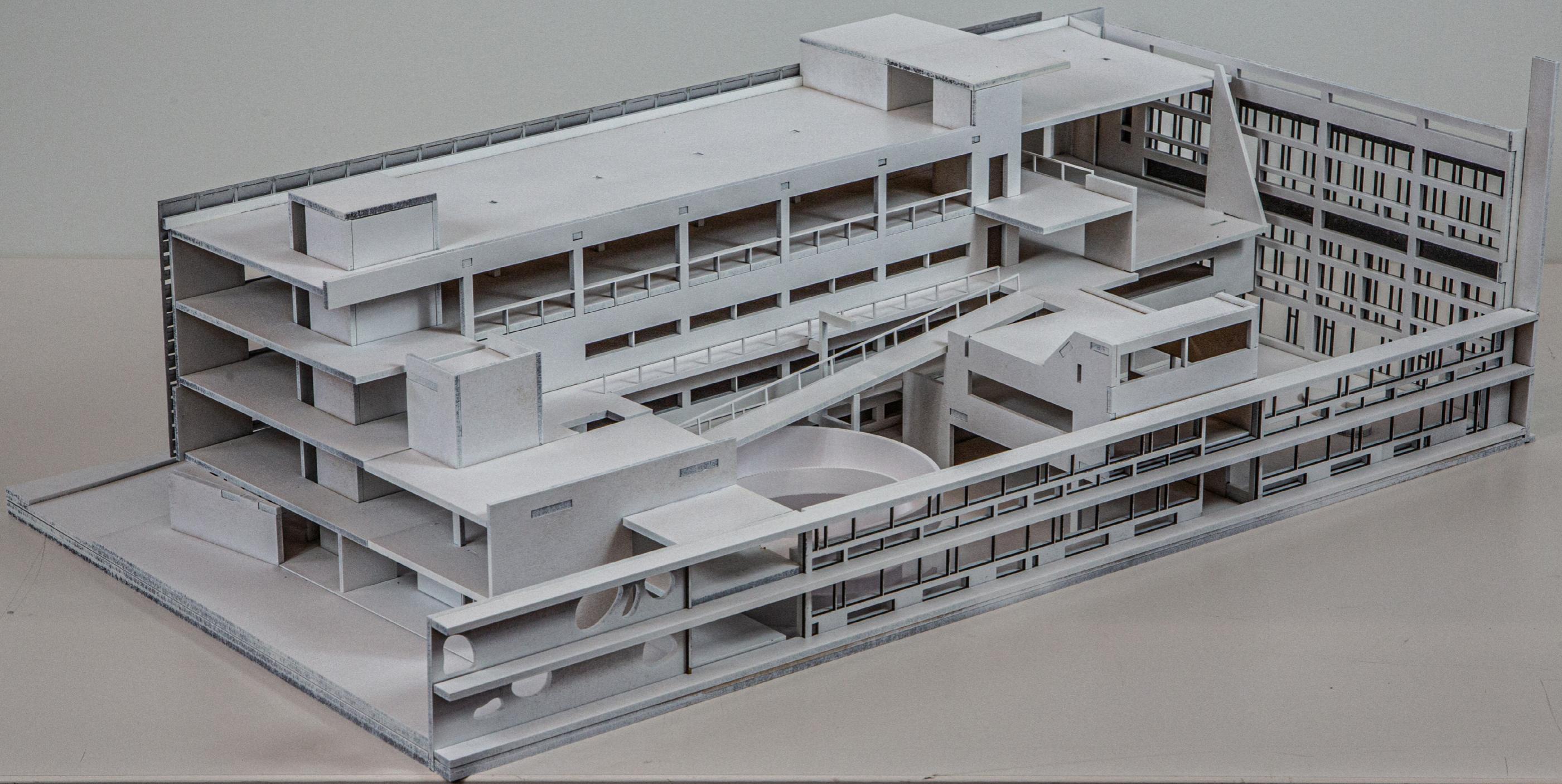






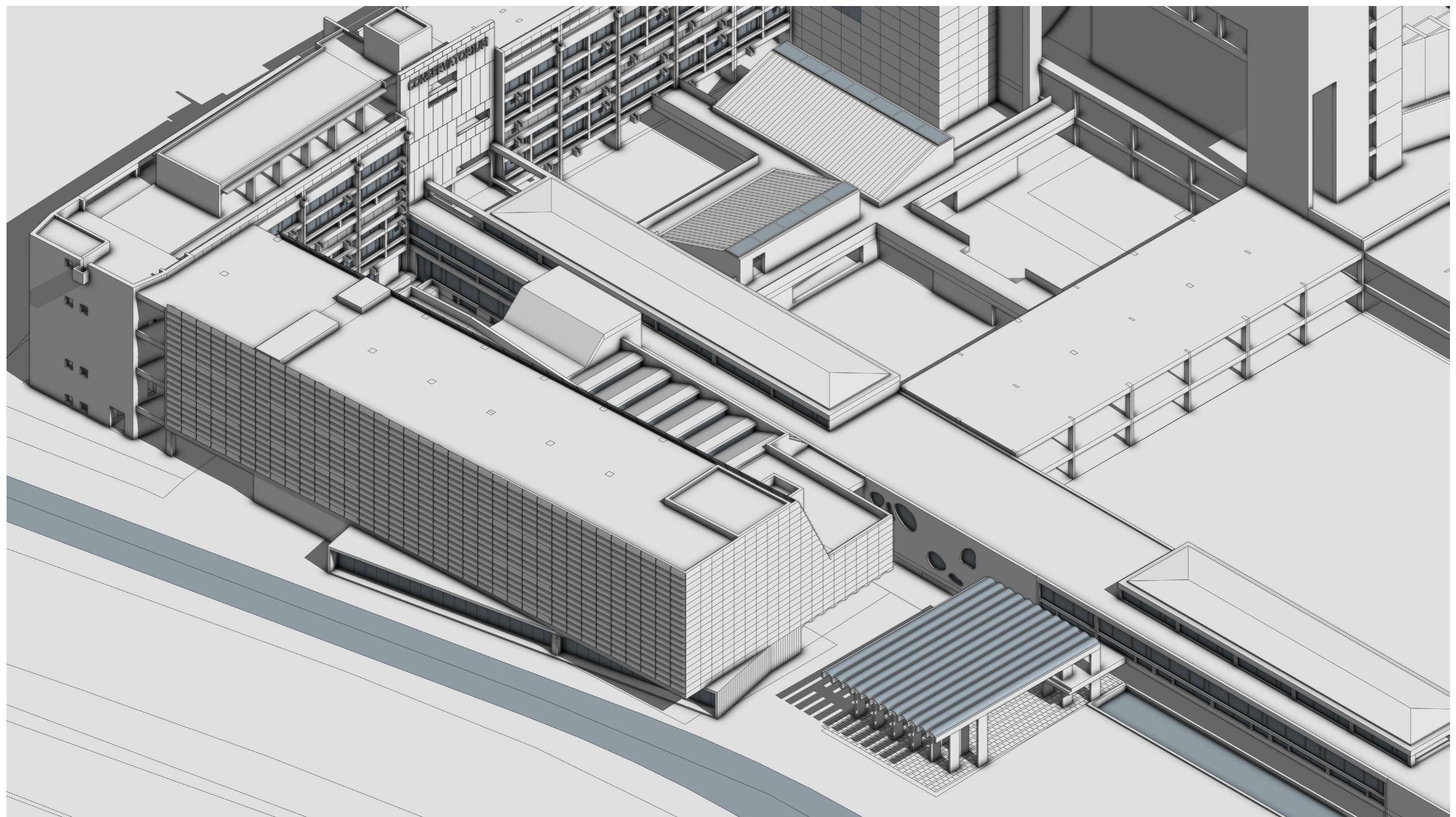


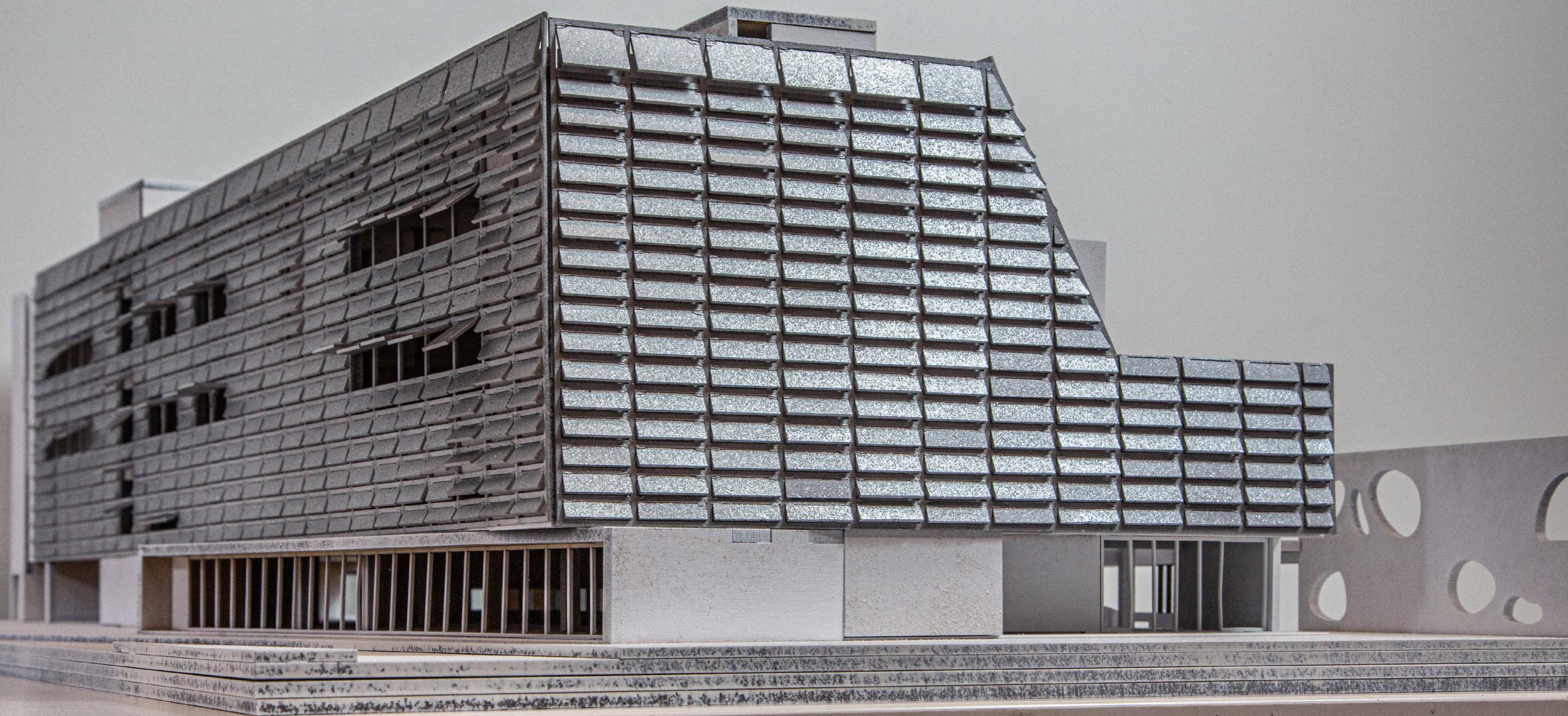


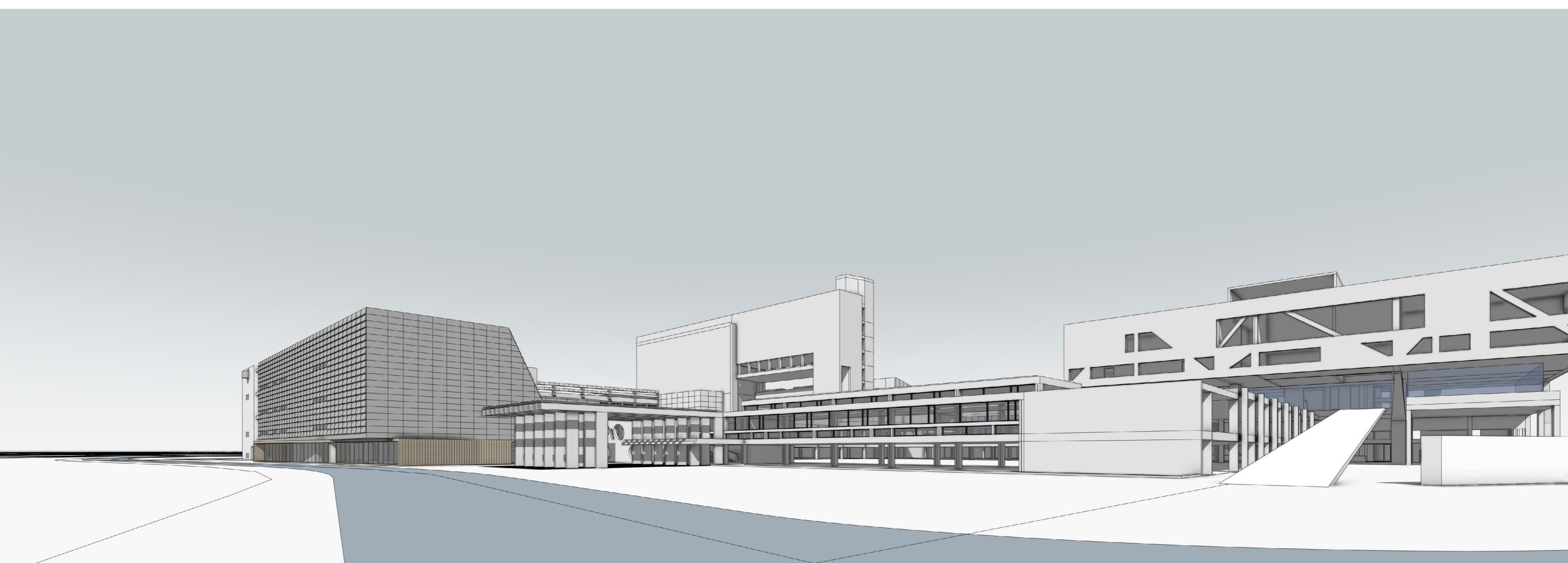


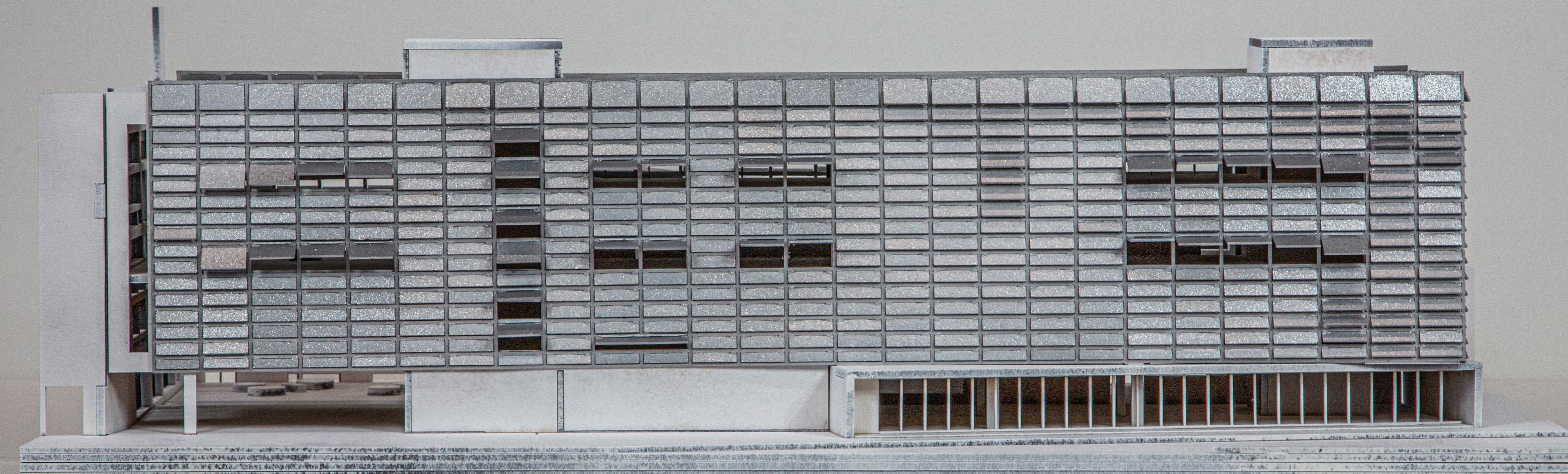


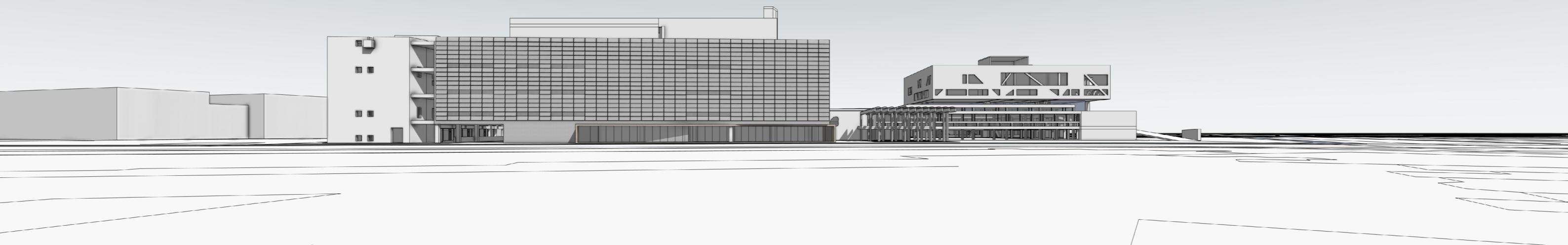
03 Expression



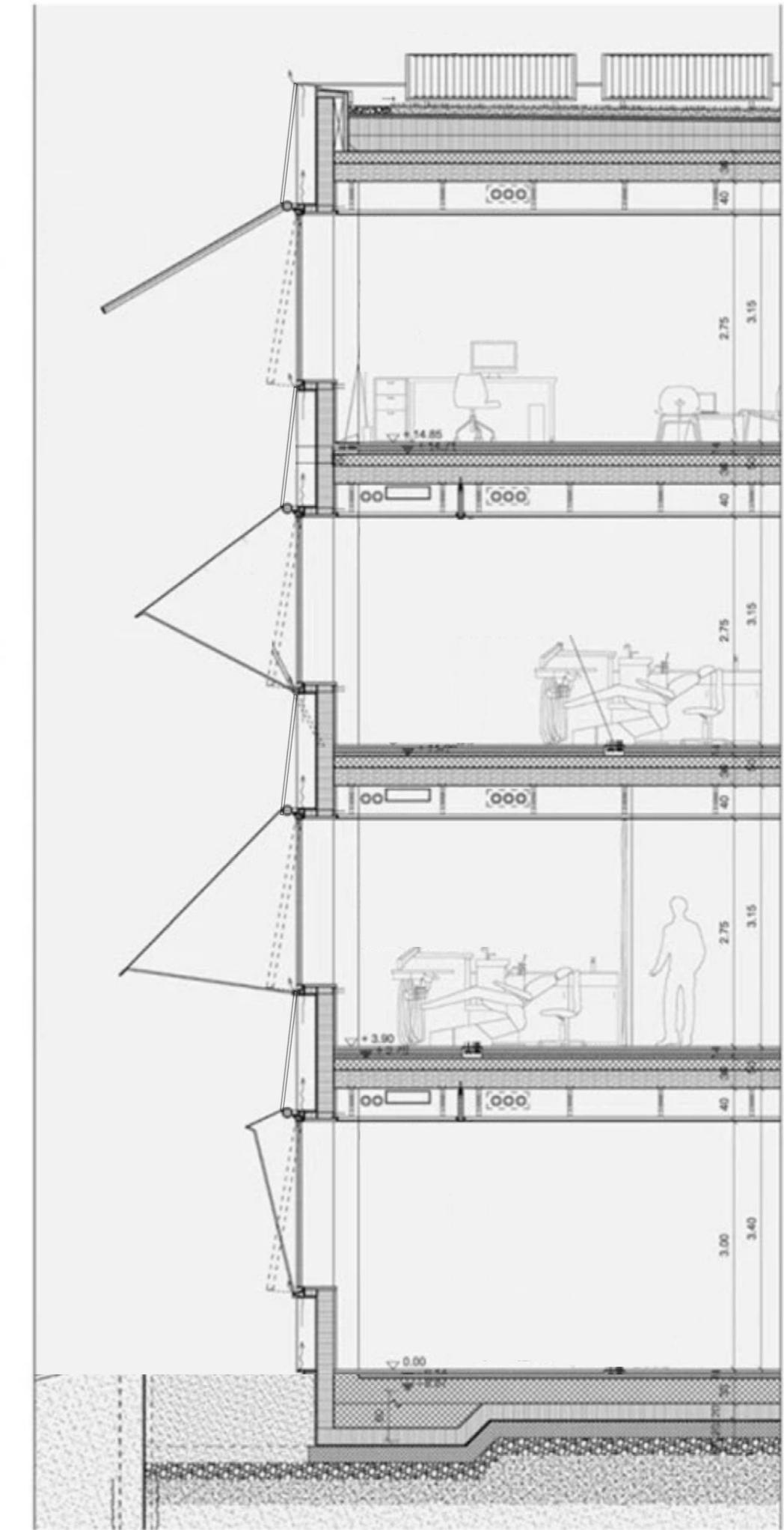




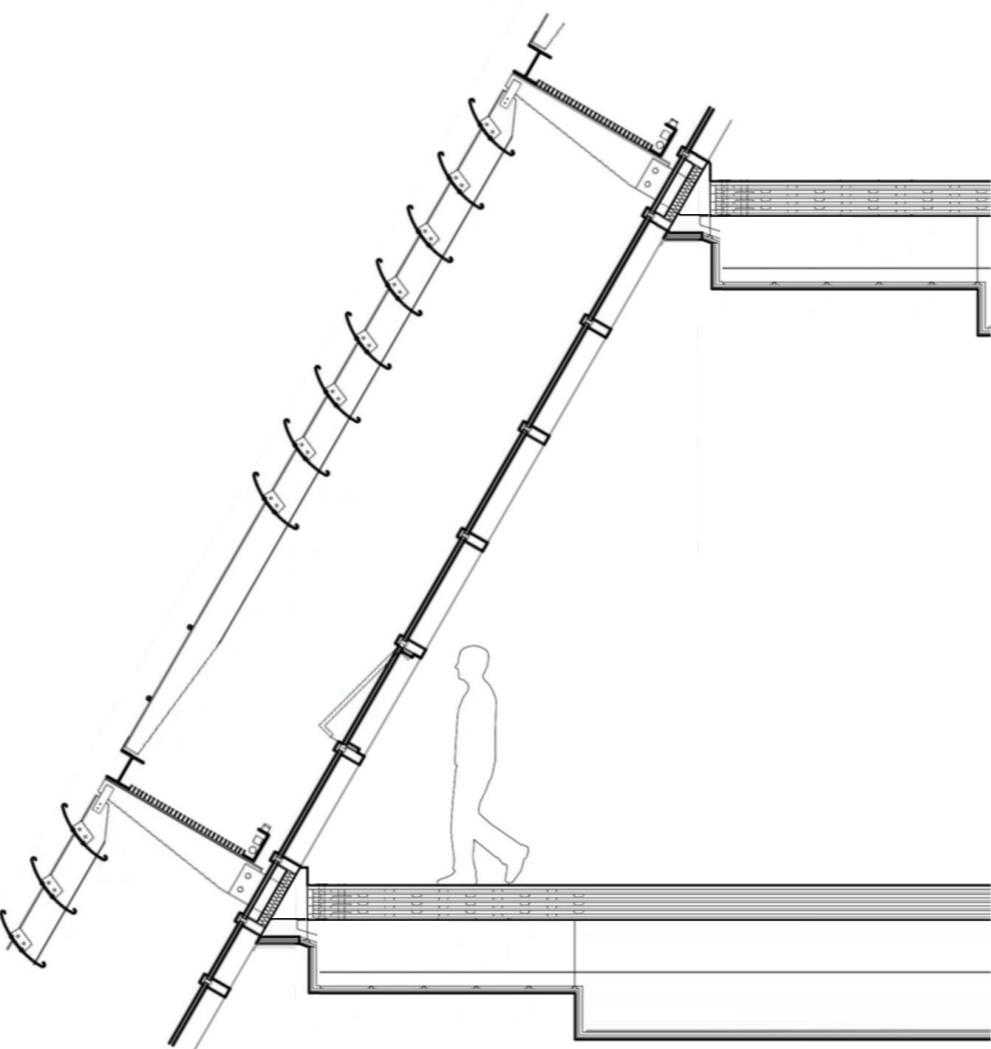
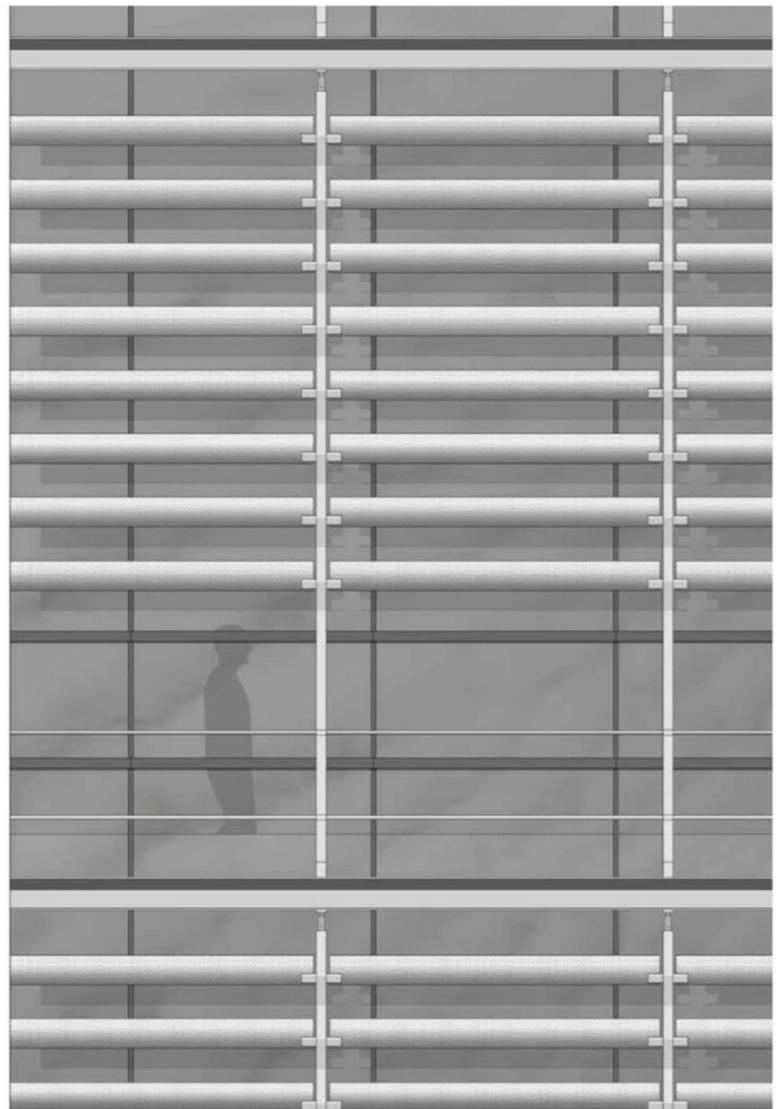




Aluminium alloy curtain system



Adaptive shading curtain wall system



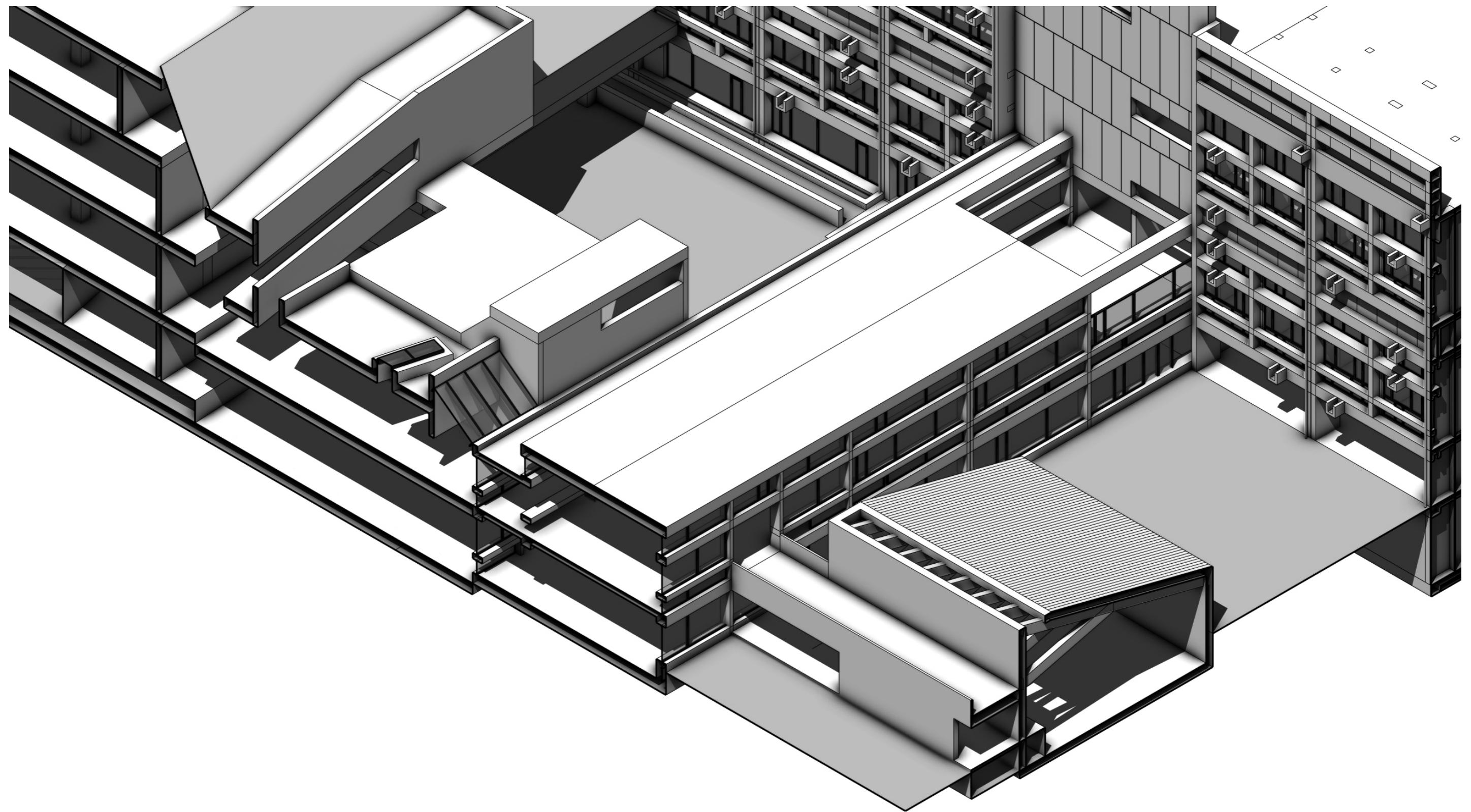
Part 3

Interior

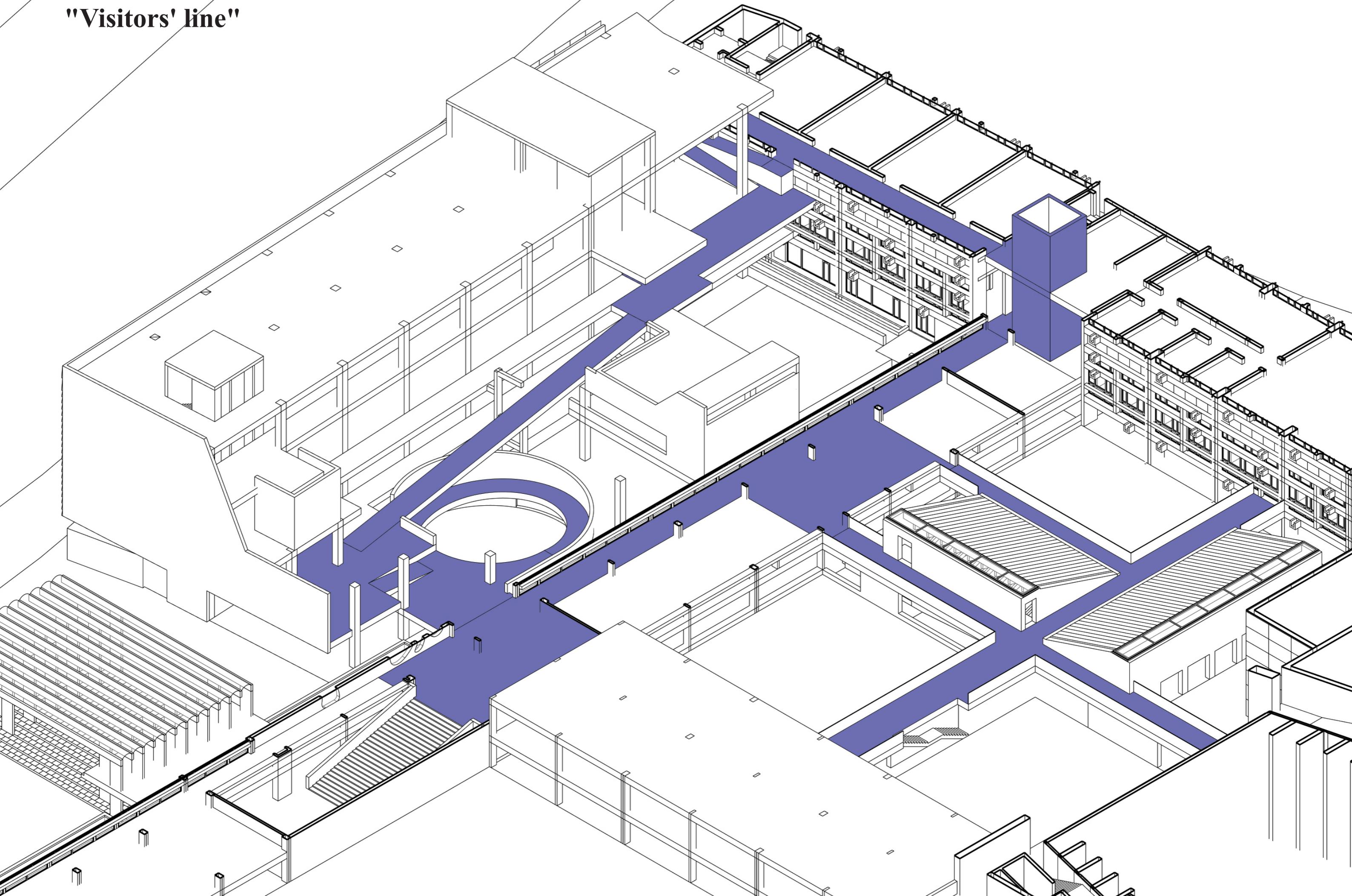
"Visitors' line"

How the Archive works?



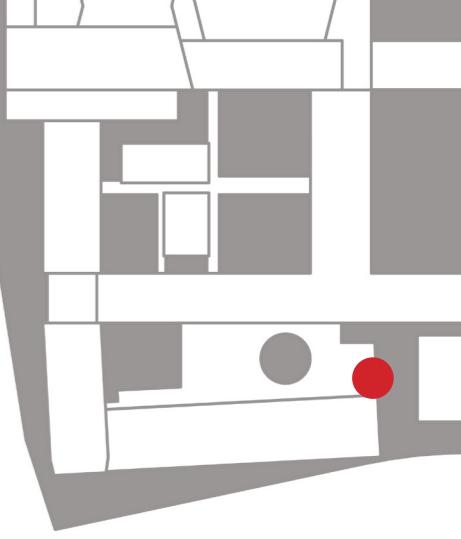
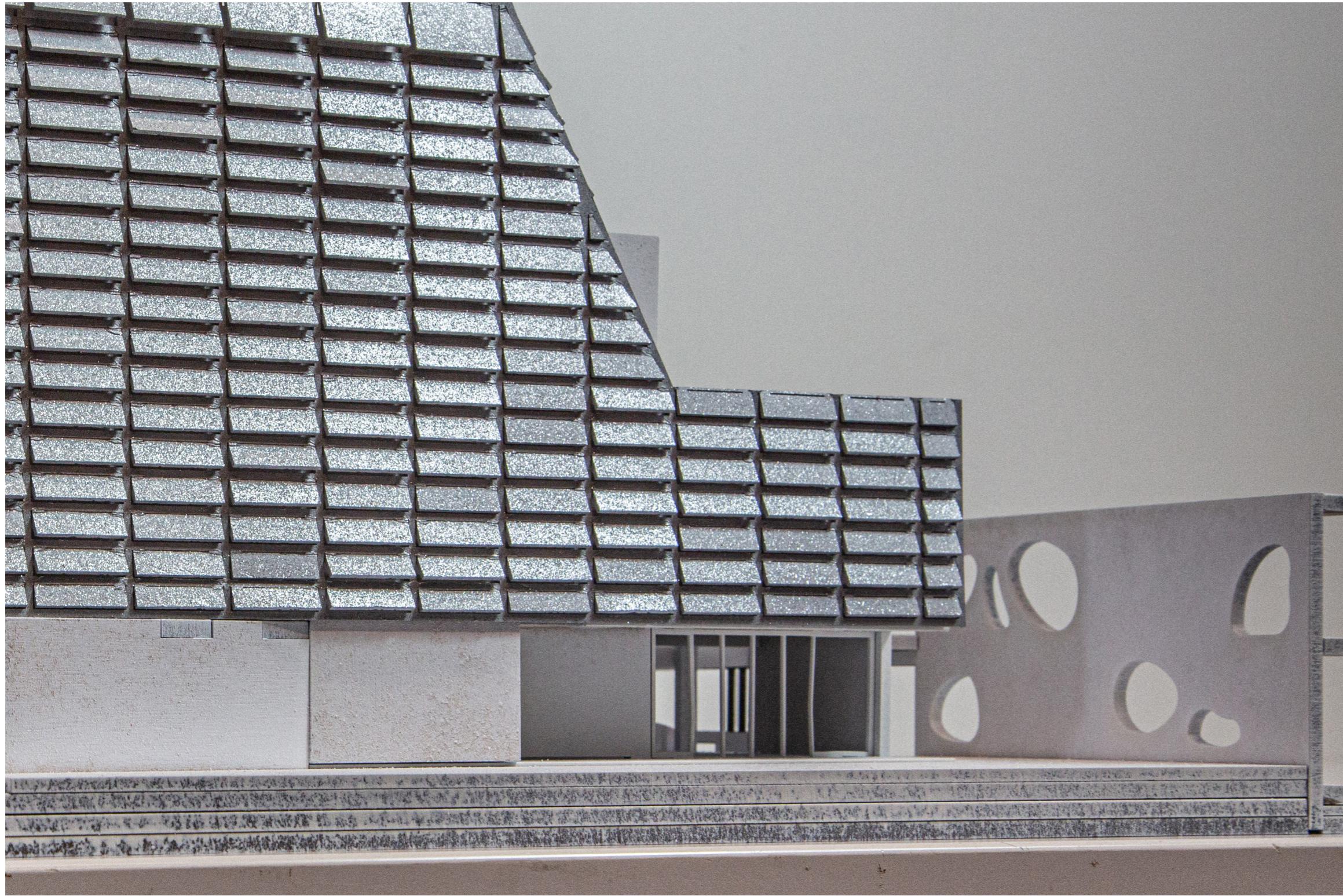


"Visitors' line"

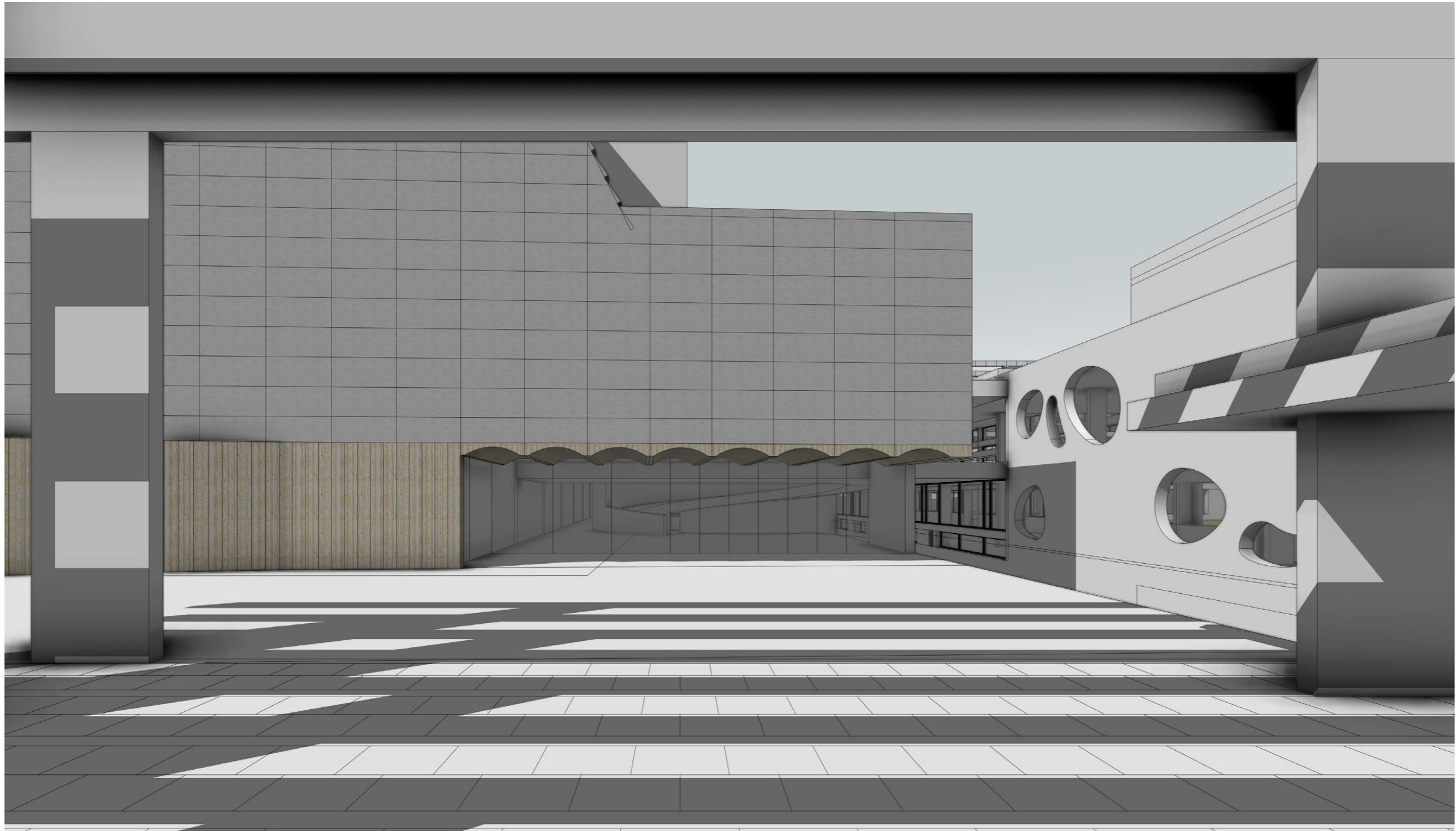


01 Entrance

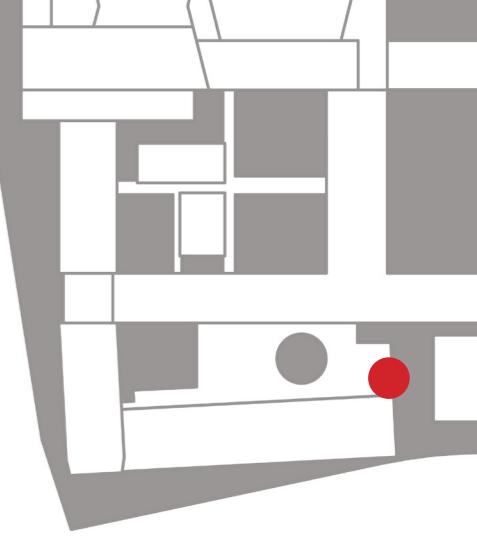
Entrance



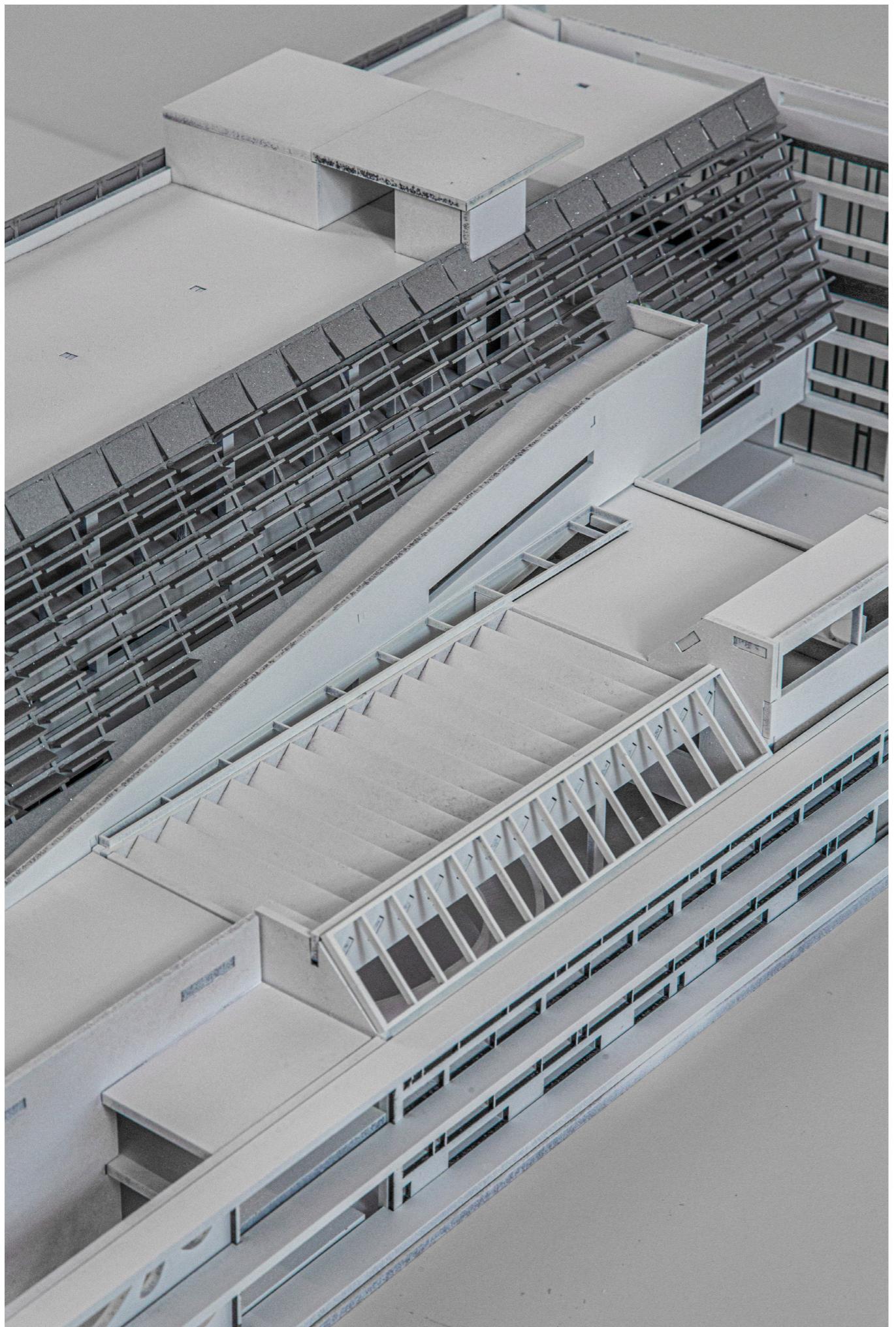
Entrance



The main entrance of the archive is a concave gray space. The shape refers to the entrance of some of De Meyer's past architectural works, forming a kind of contextual inheritance.



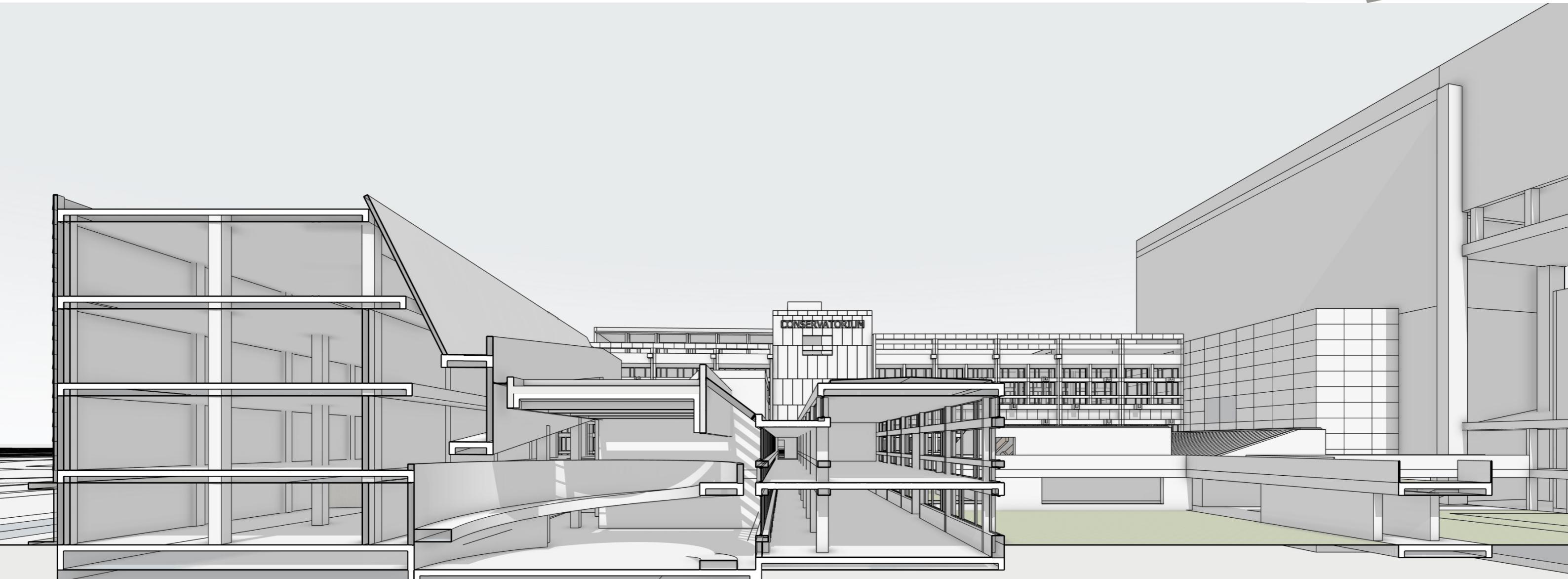
02 Lobby



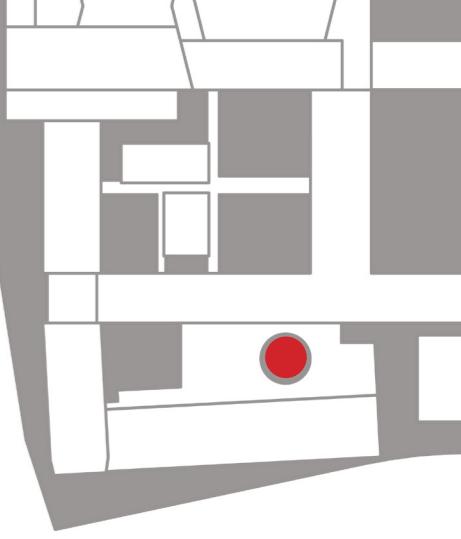
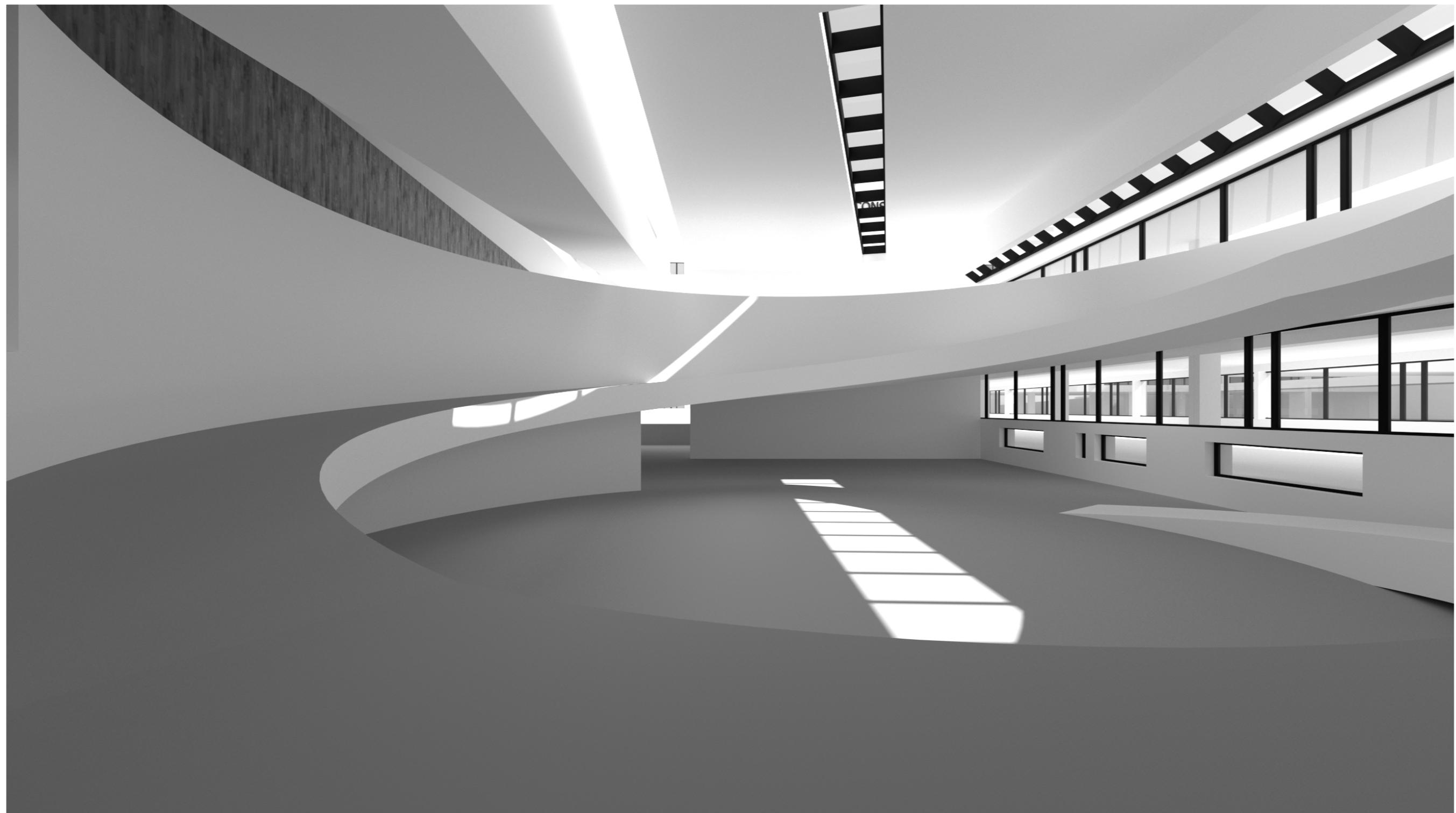
Lobby



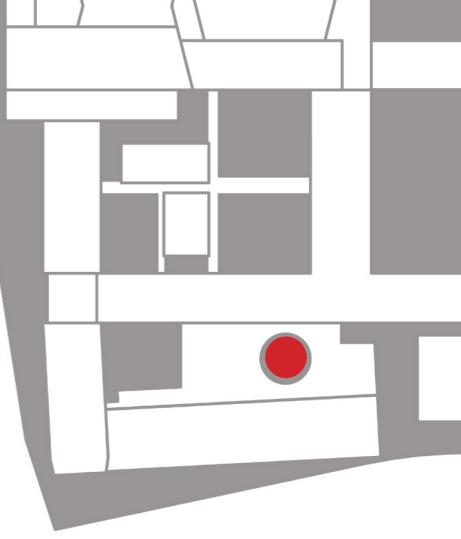
Lobby



Lobby

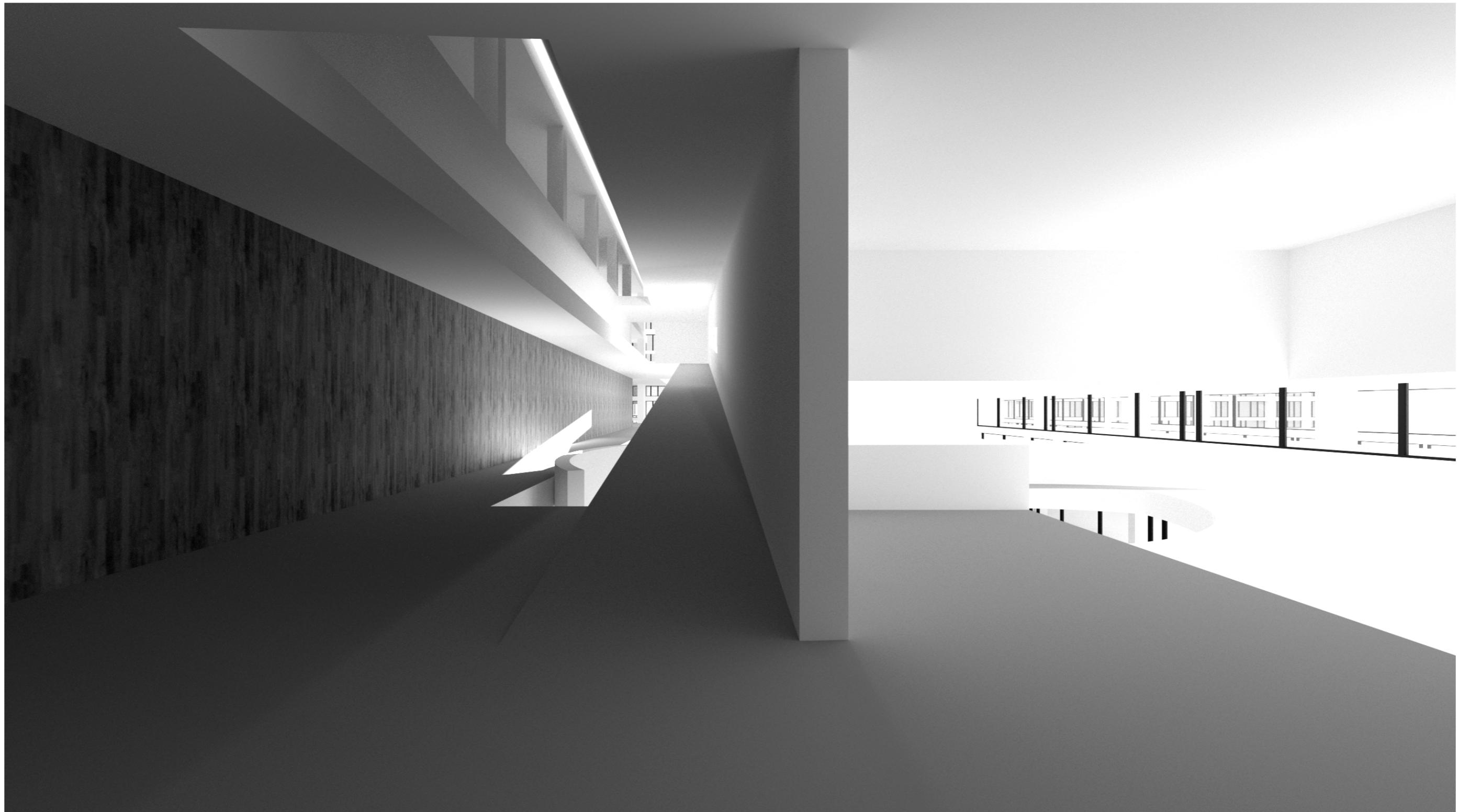


Lobby



03 Ramp

Ramp



Ramp

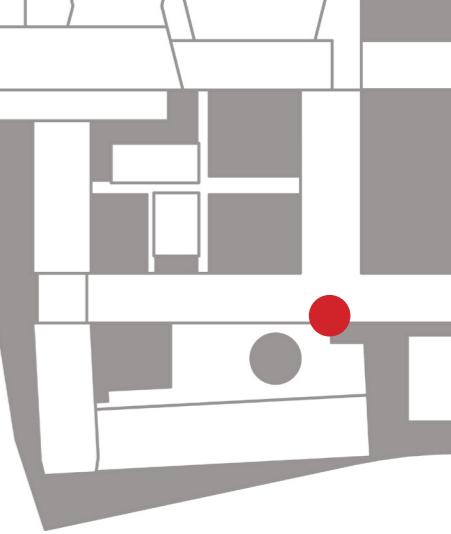
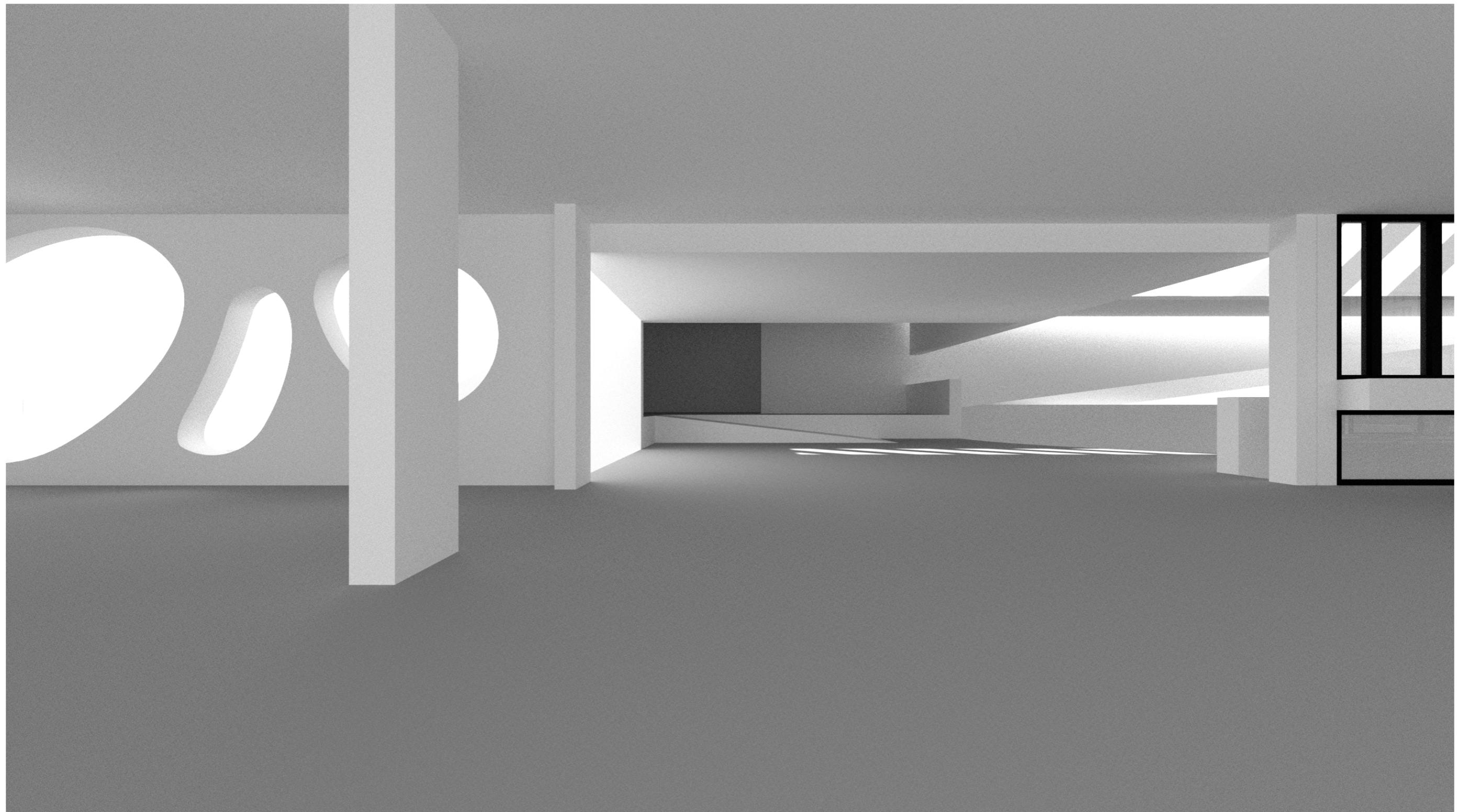


Ramp



04 Connection

Connection





04 Courtyards

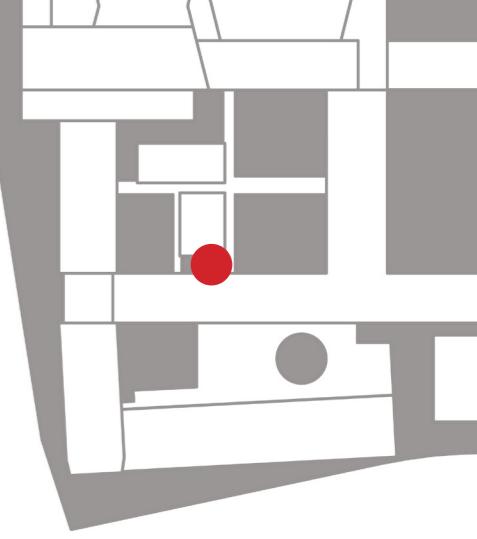
Courtyards



Courtyards



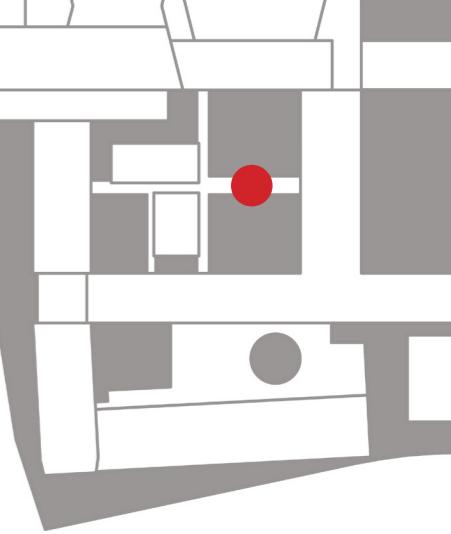
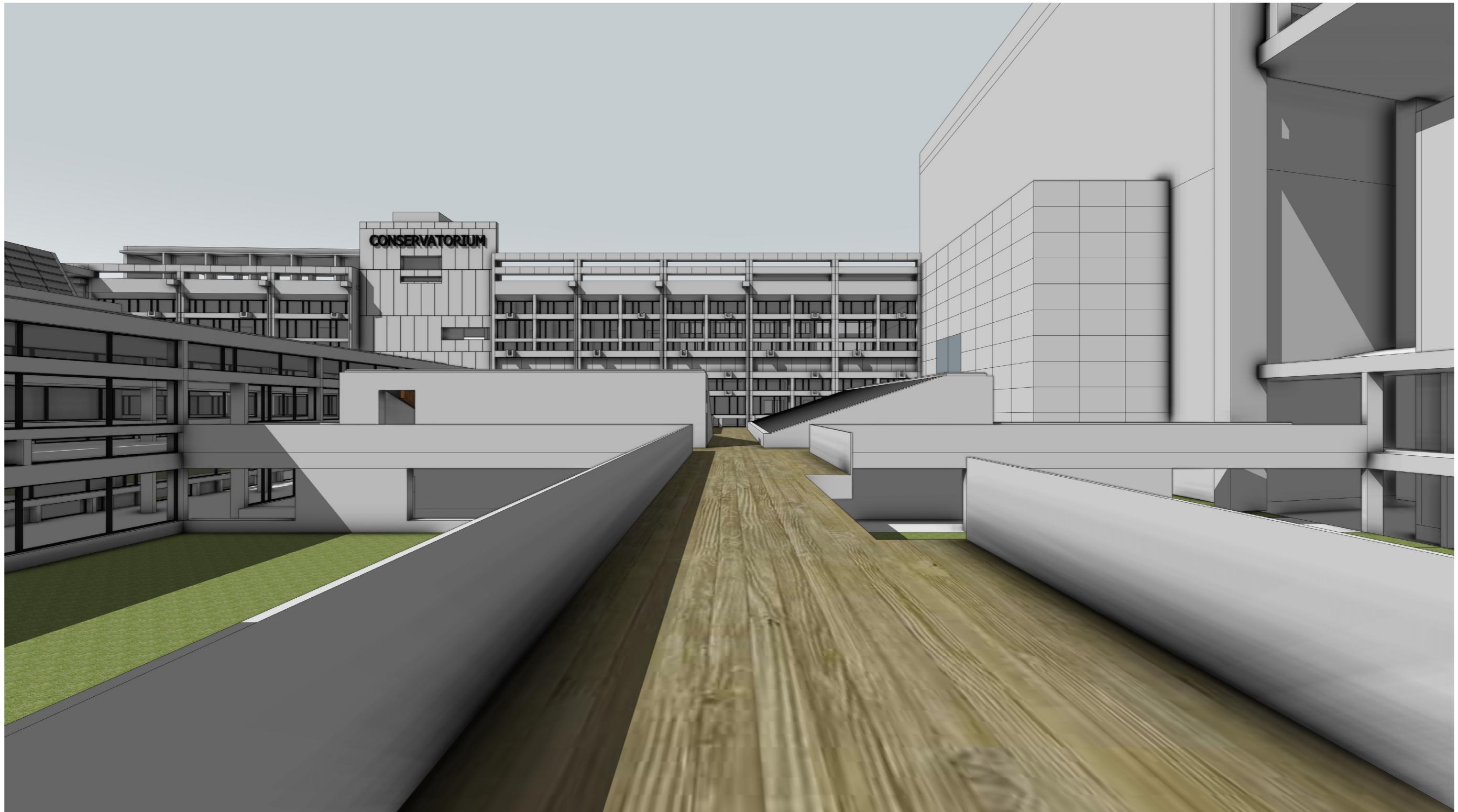
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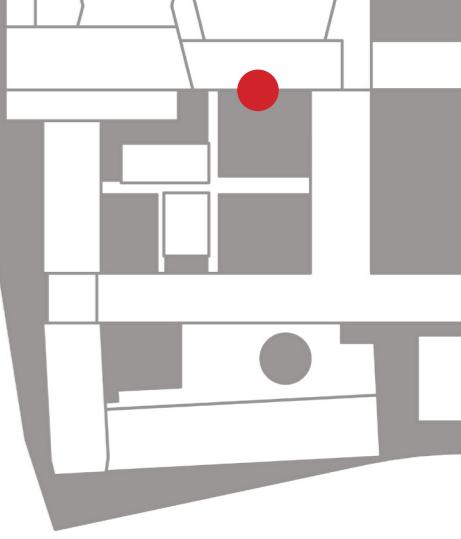
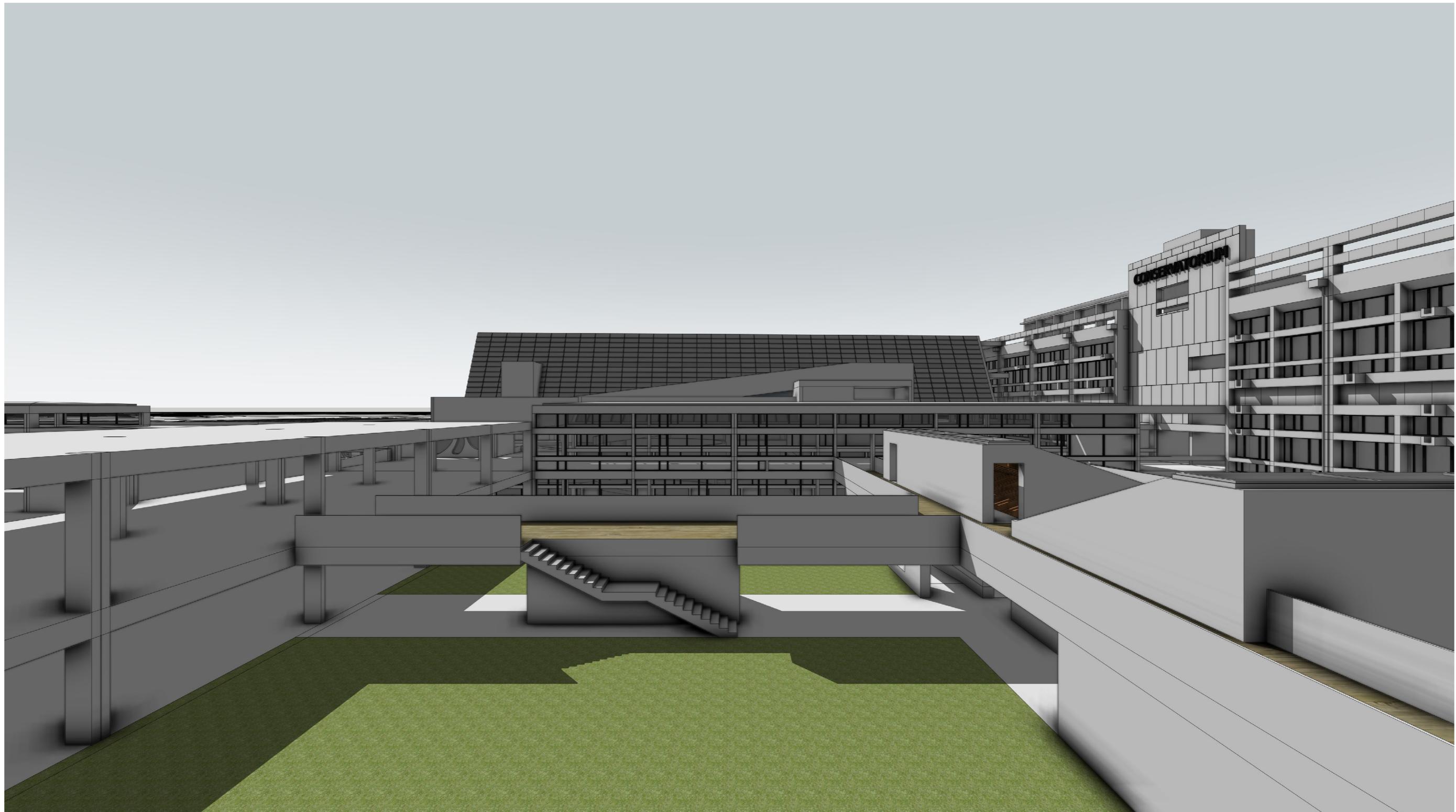
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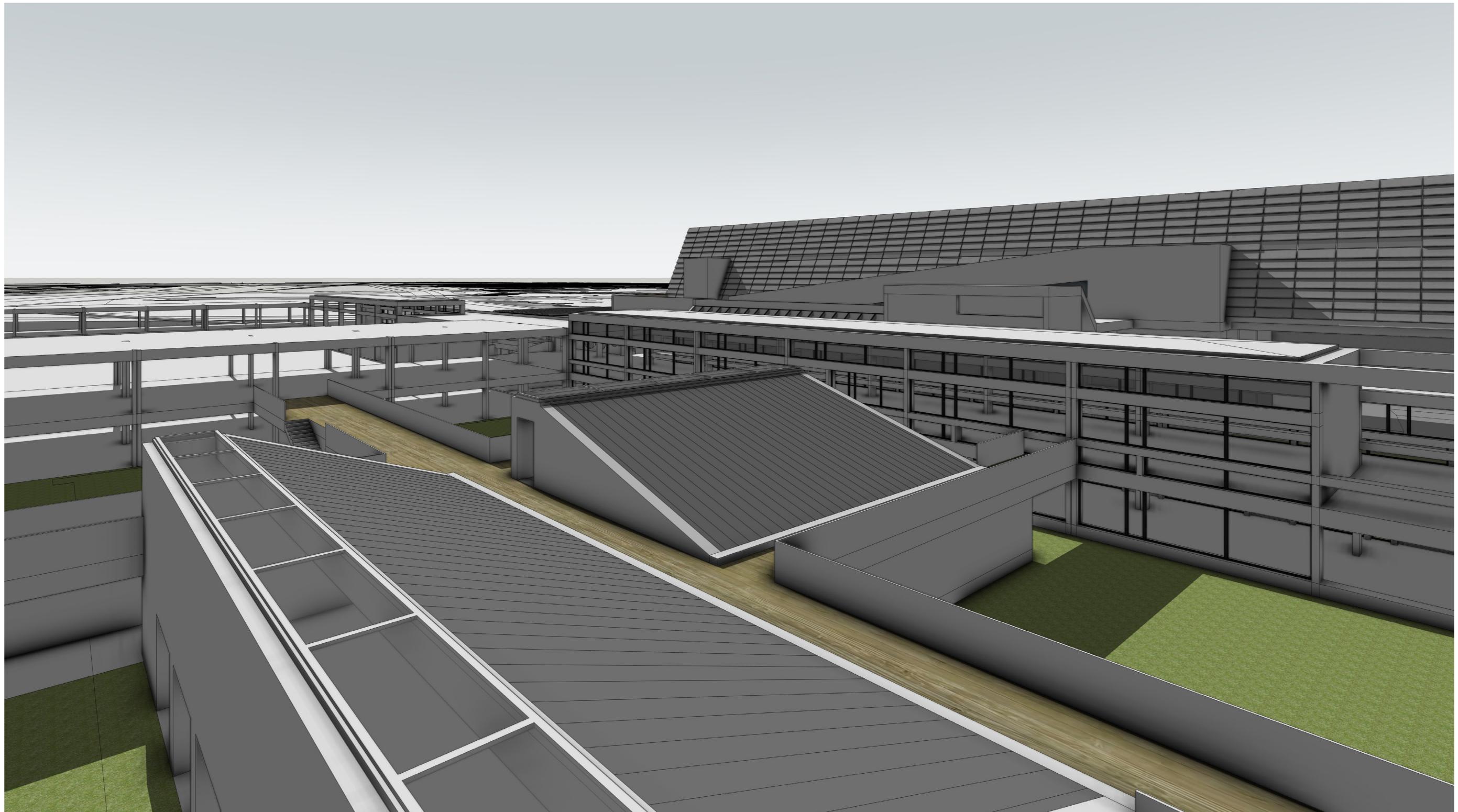
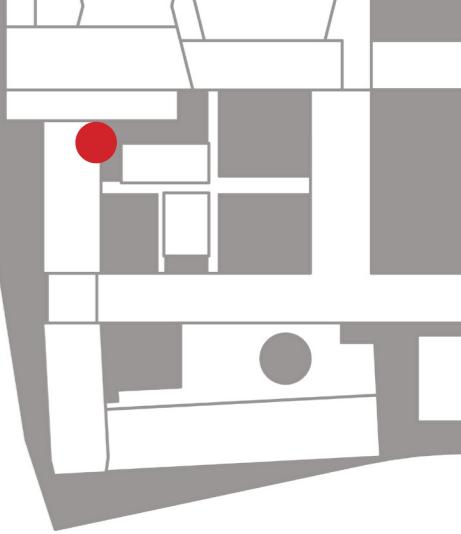
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Courtyards

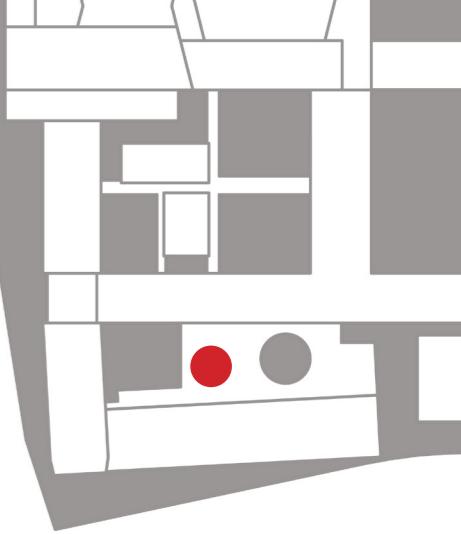


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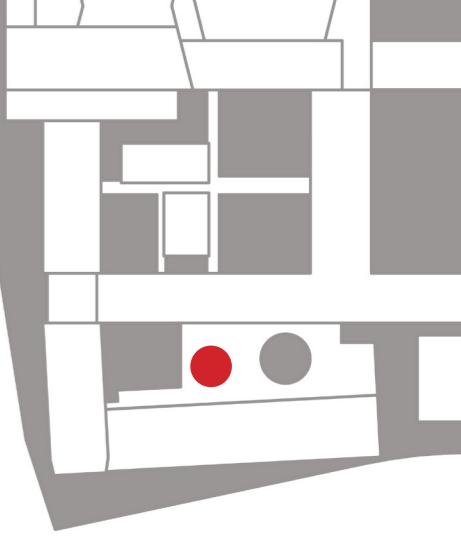
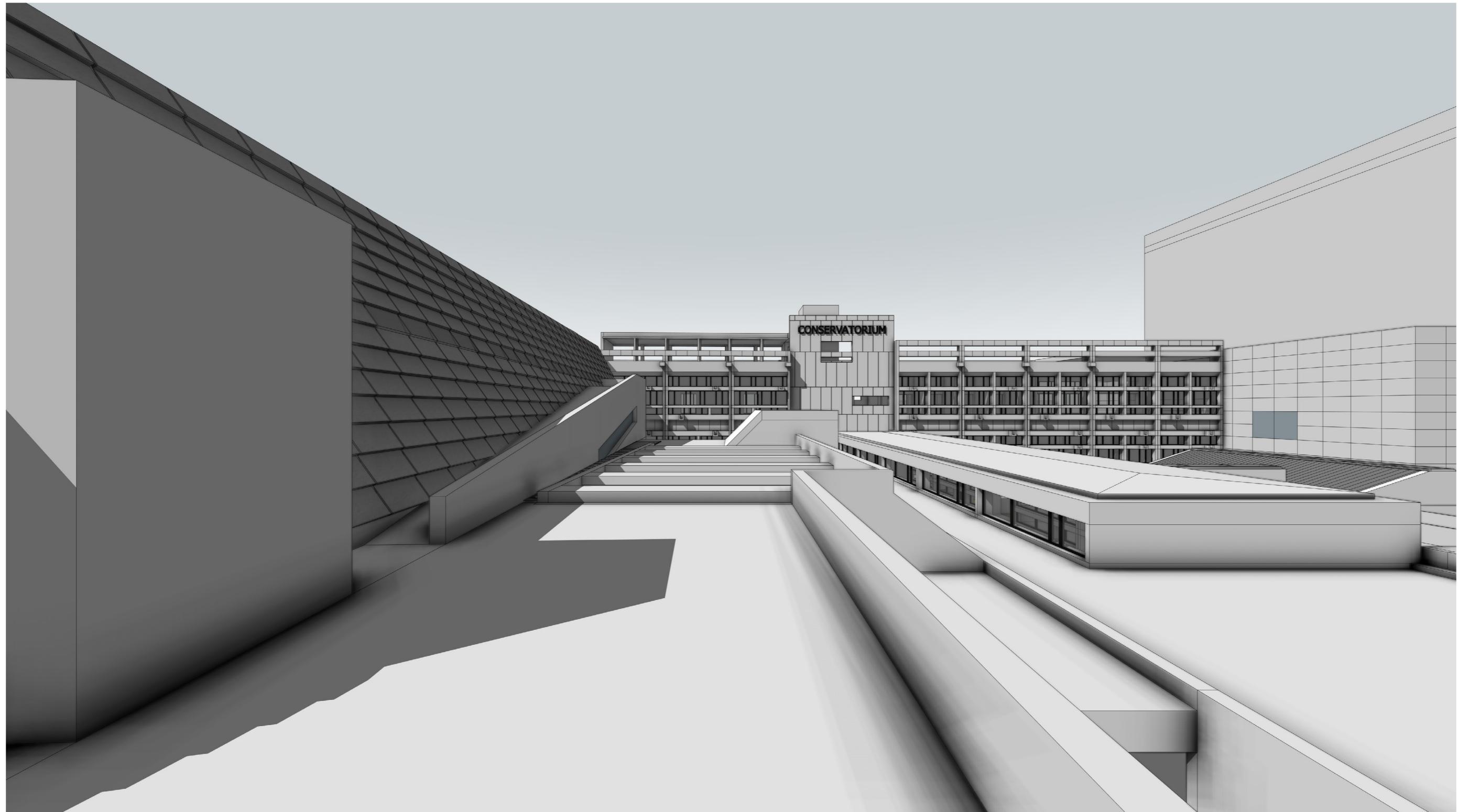


06 Roof

Roof



Roof





Exhibition Hall



Exhibition Hall

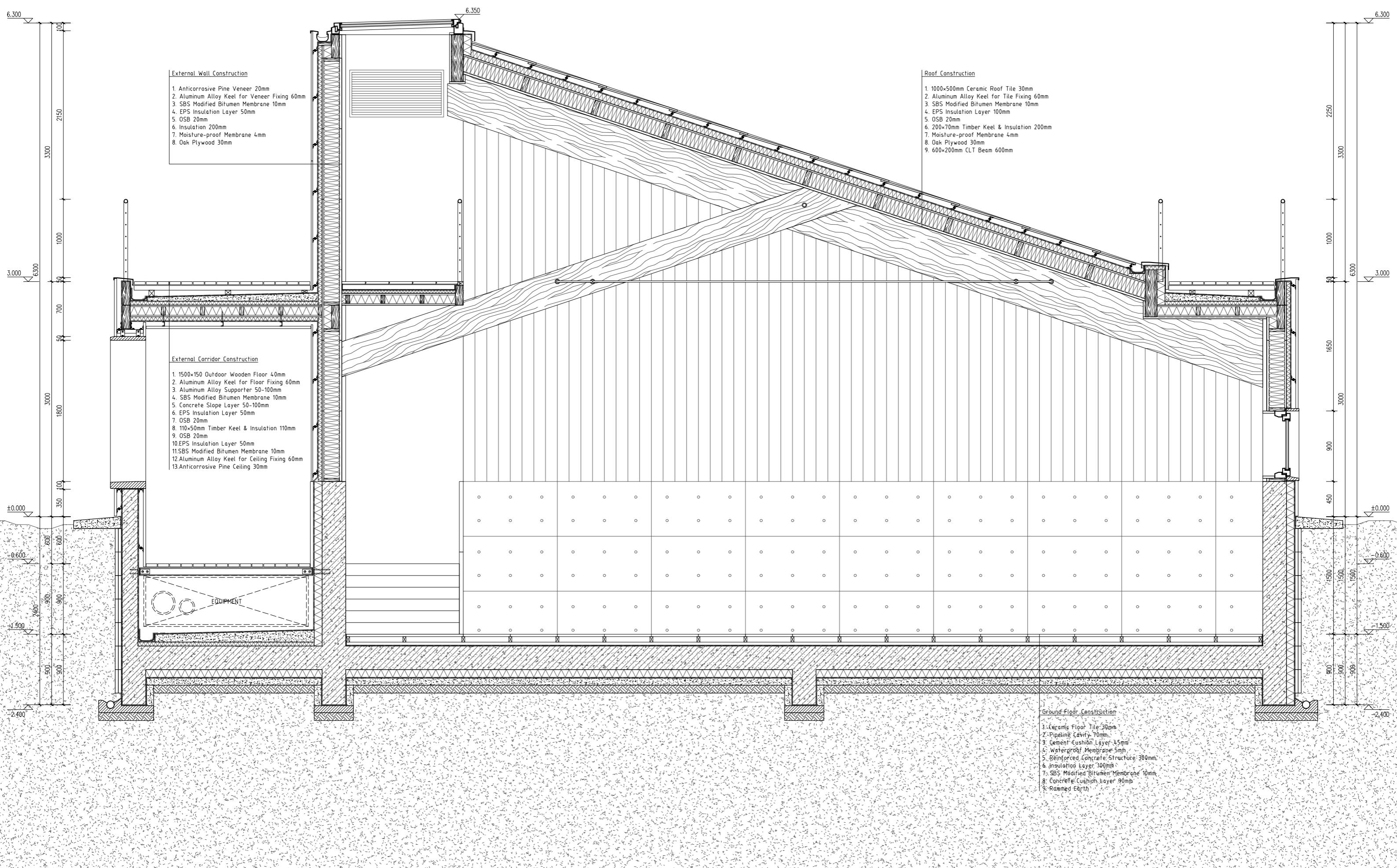


Exhibition Hall



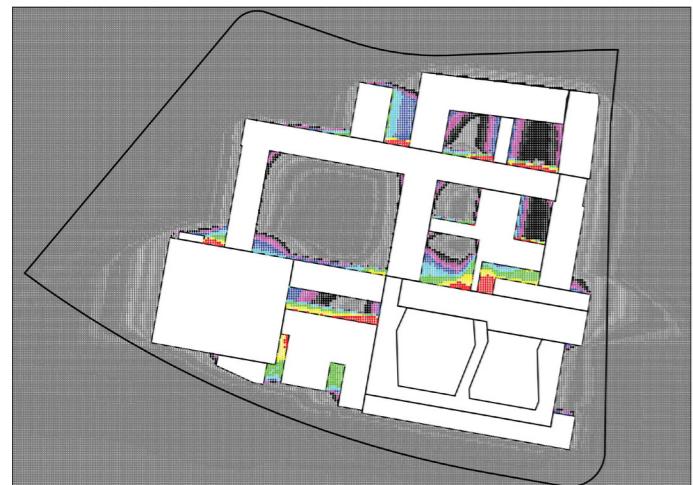


Exhibition Hall

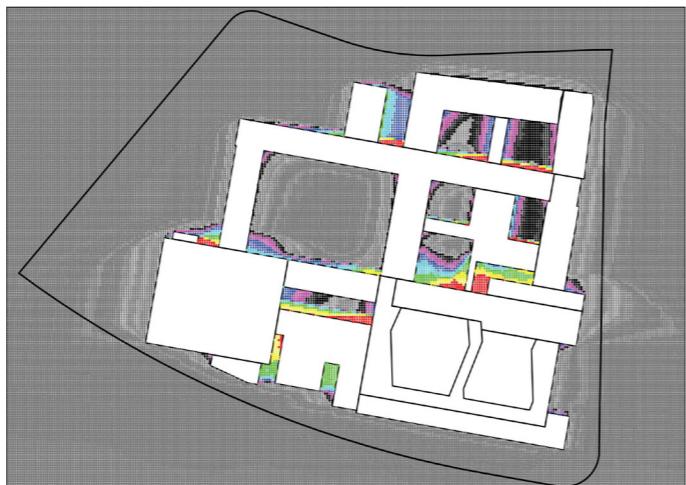


08 Climate Design

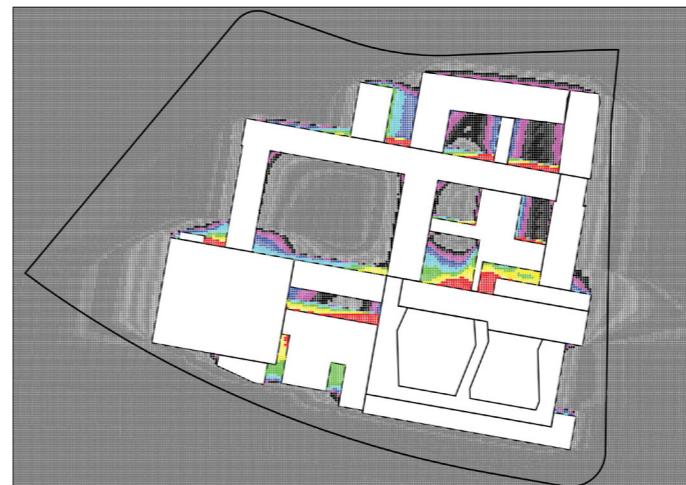
Sunlight Analysis



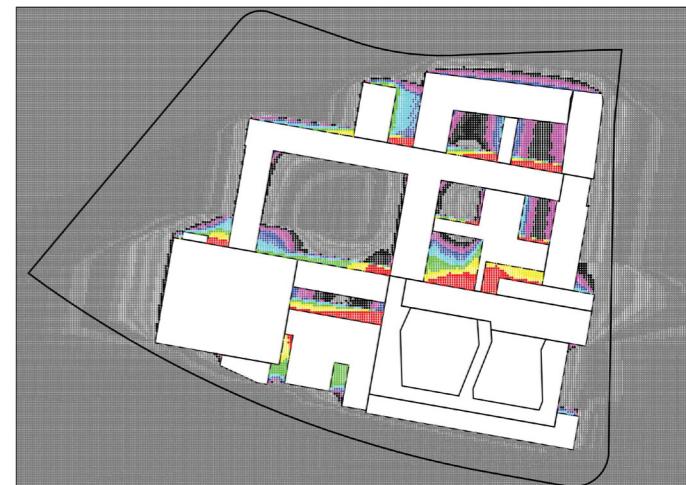
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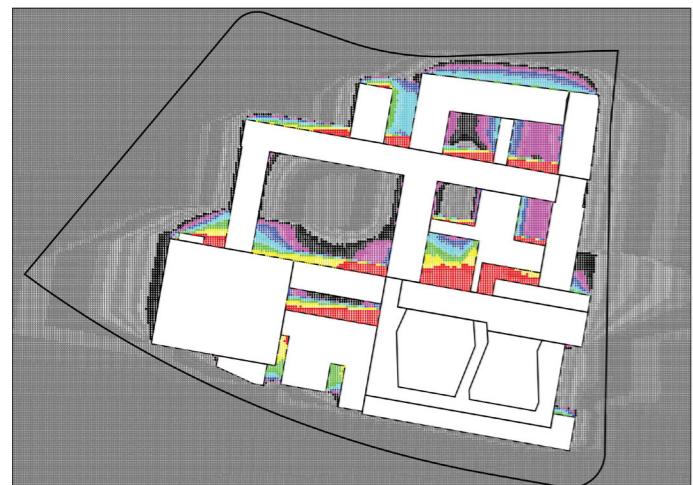
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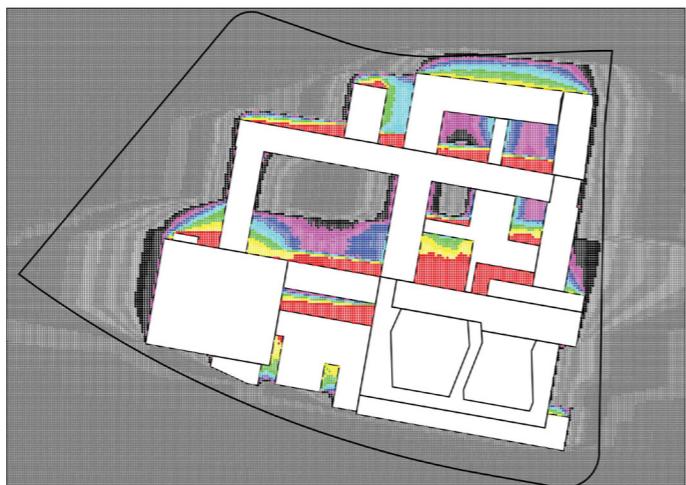
26th July



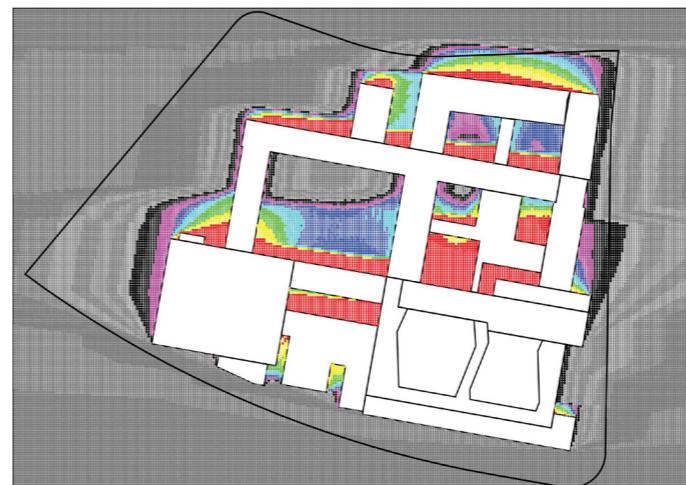
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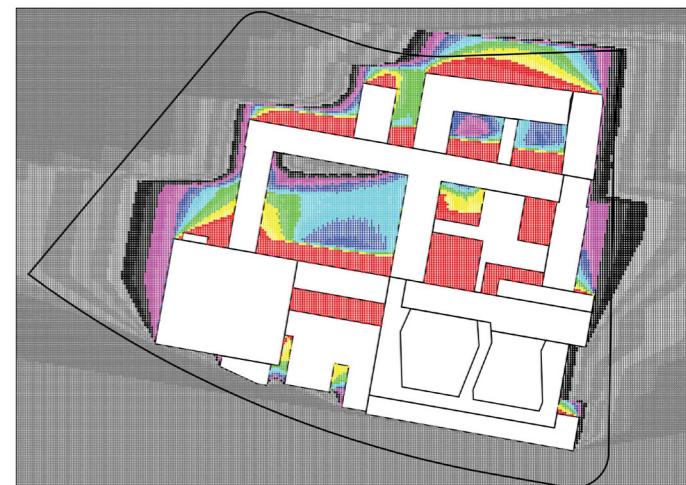
2nd September



20th September

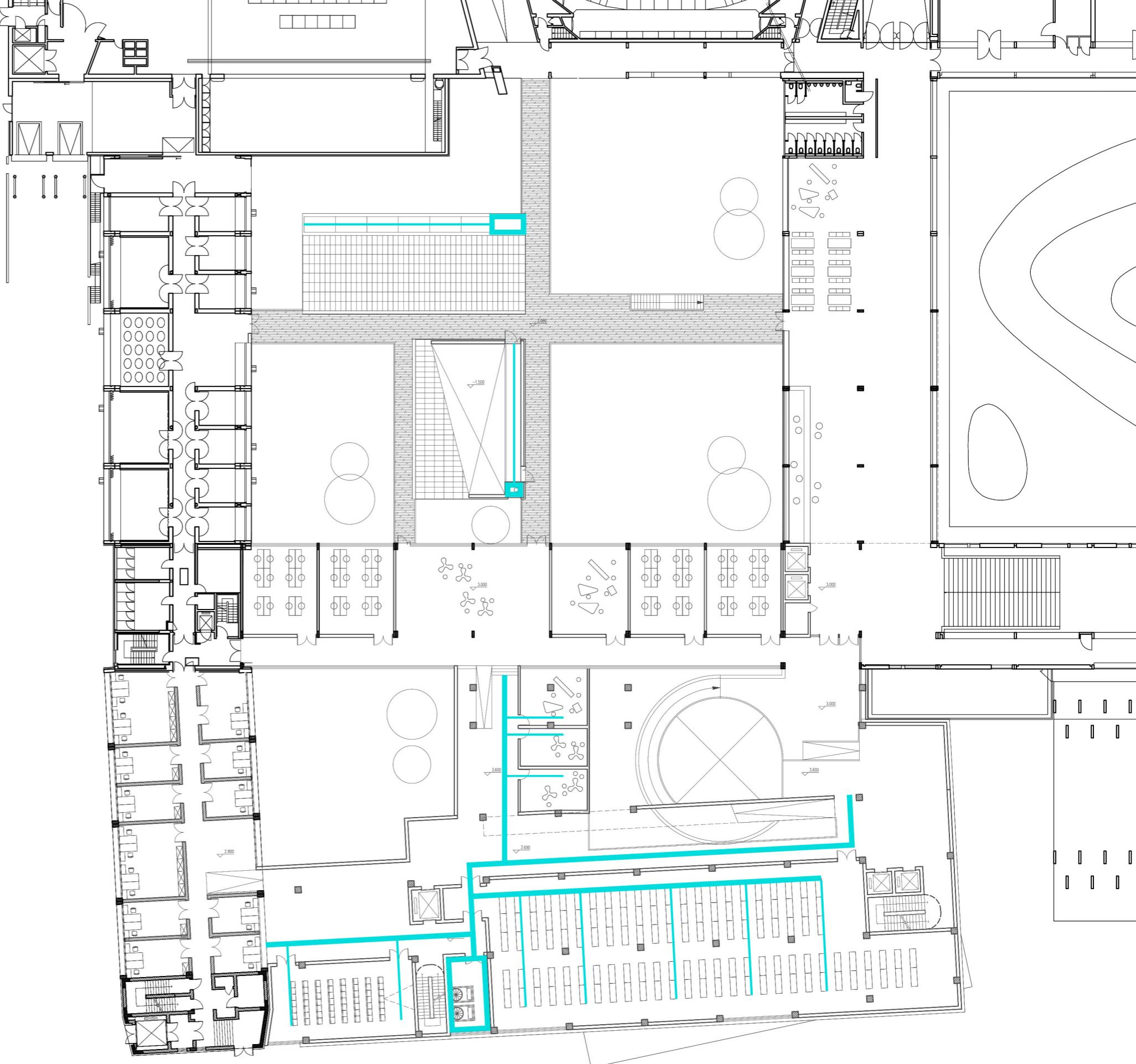


8th October

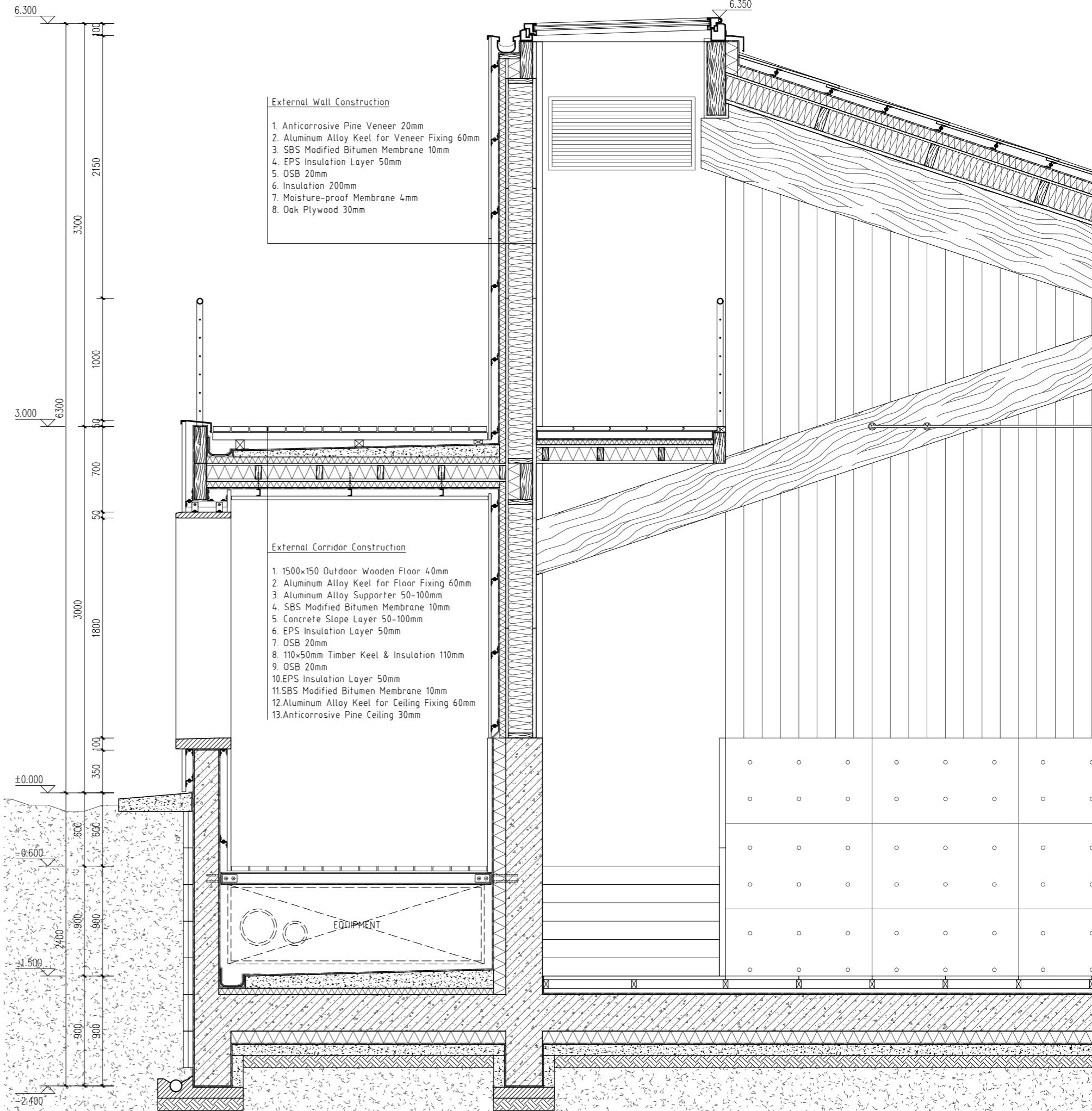


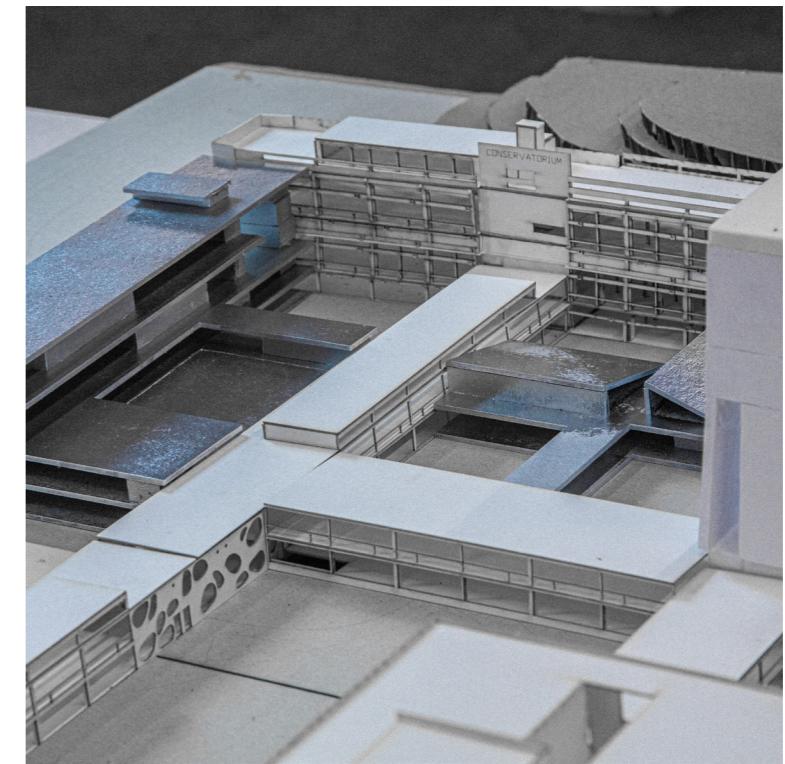
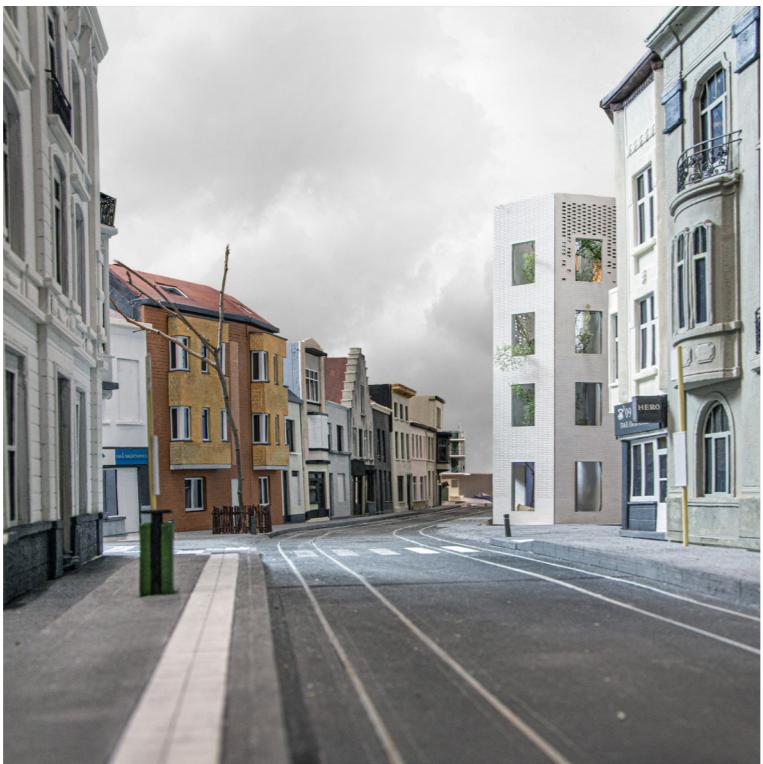
26th October

Climate Design



Climate Design





Thanks for your listening!

