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THIRD MENTOR: ZEINSTRA, IR. J.S.

VMHK | A WAREHOUSE FOR ART
ARCHITECTURAL DESIGN
RAFAËL VAN HEES | 4363272



MASP | Bardi



Kunsthaus | Chipperfield



New Museum | SANAA



FRAC | Lacaton & Vassal



Museum Abteiberg | Hollein



Tate Modern | Herzog & De Meuron



Centre Pompidou | Piano & Rogers



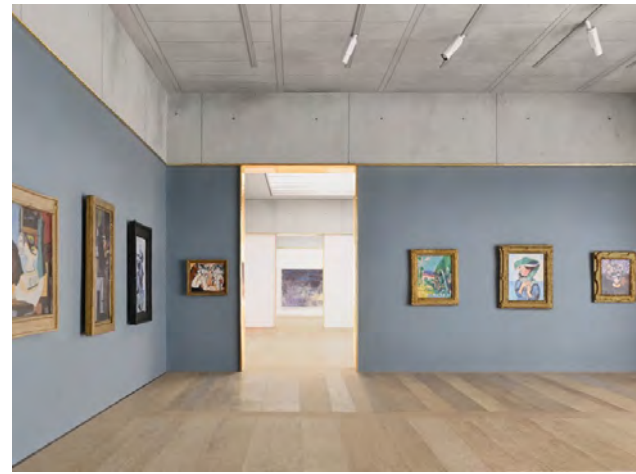
Kunsthaus Bregenz | Zumthor

MUSEUM PRECEDENTS STUDY

Reference pictures



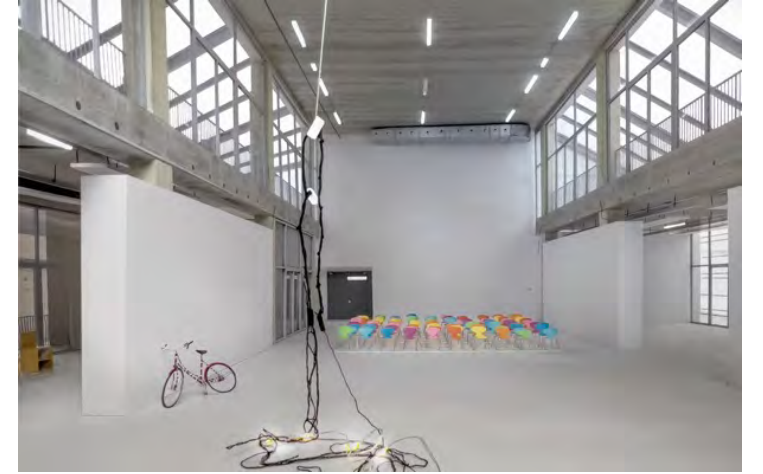
MASP | Bardi



Kunsthaus | Chipperfield



New Museum | SANAA



FRAC | Lacaton & Vassal



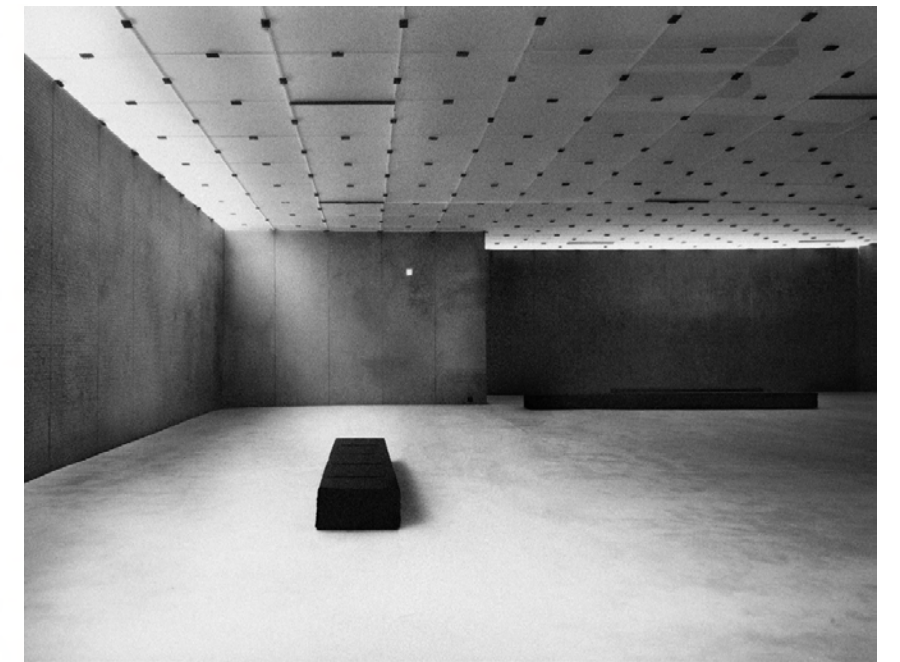
Museum Abteiberg | Hollein



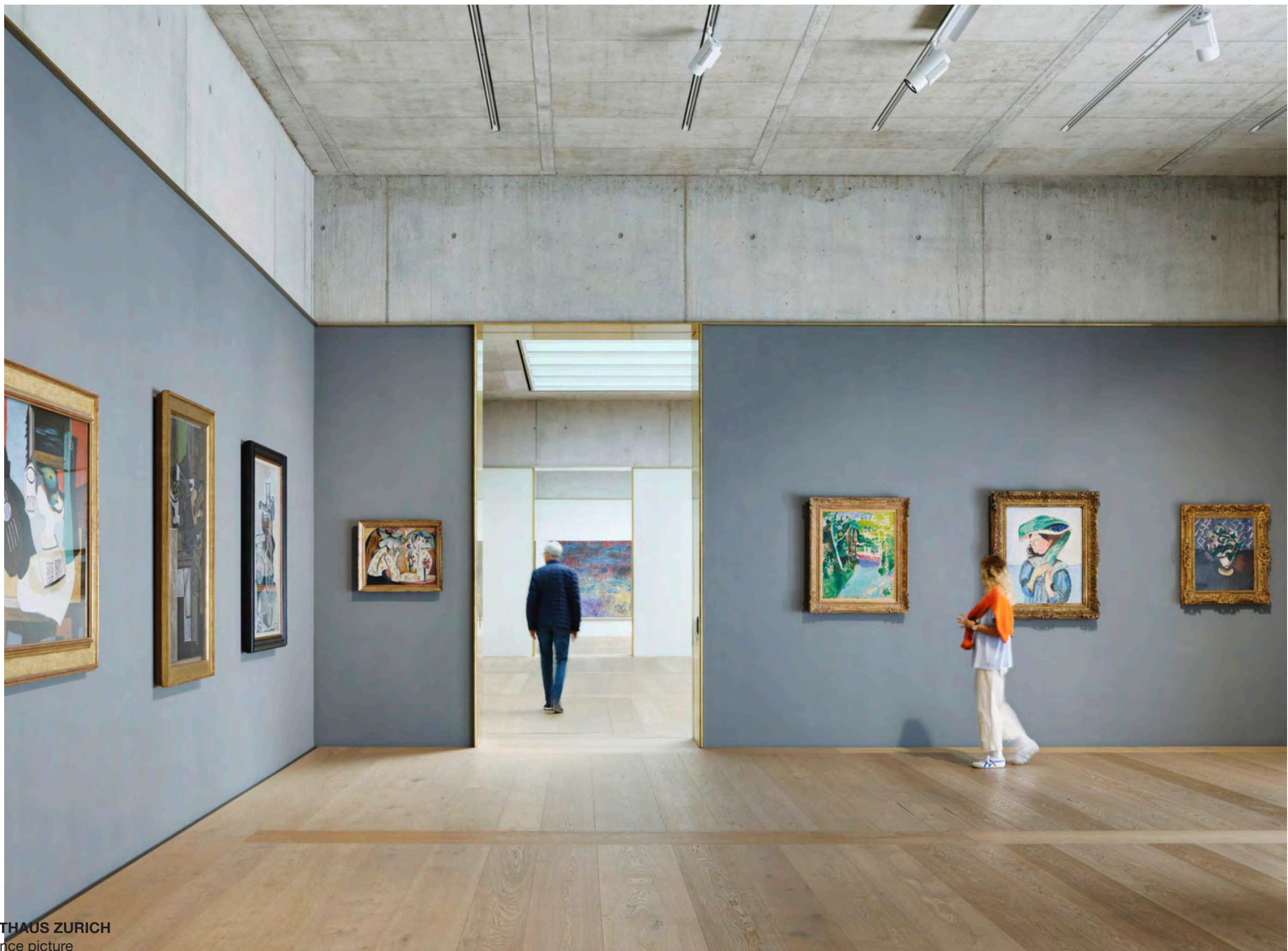
Tate Modern | Herzog & De Meuron



Centre Pompidou | Piano & Rogers



Kunsthaus Bregenz | Zumthor







ANTWERP SOUTH | SITE

Current and new location



MODEL PICTURE

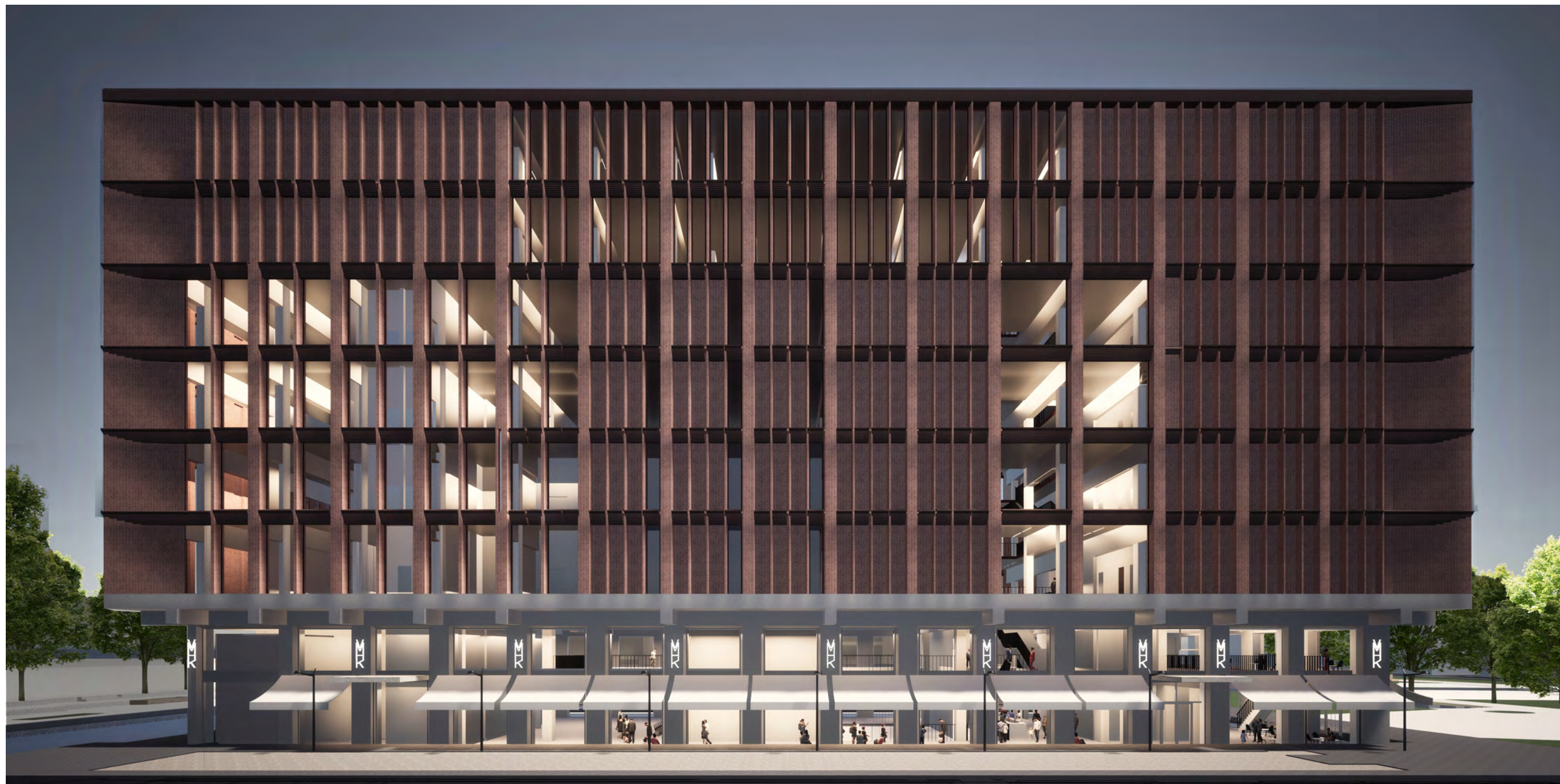
In site | 1:200



MODEL PICTURE

In site | 1:200





RENDER
Facade
10



MODEL PICTURE

In site | 1:200

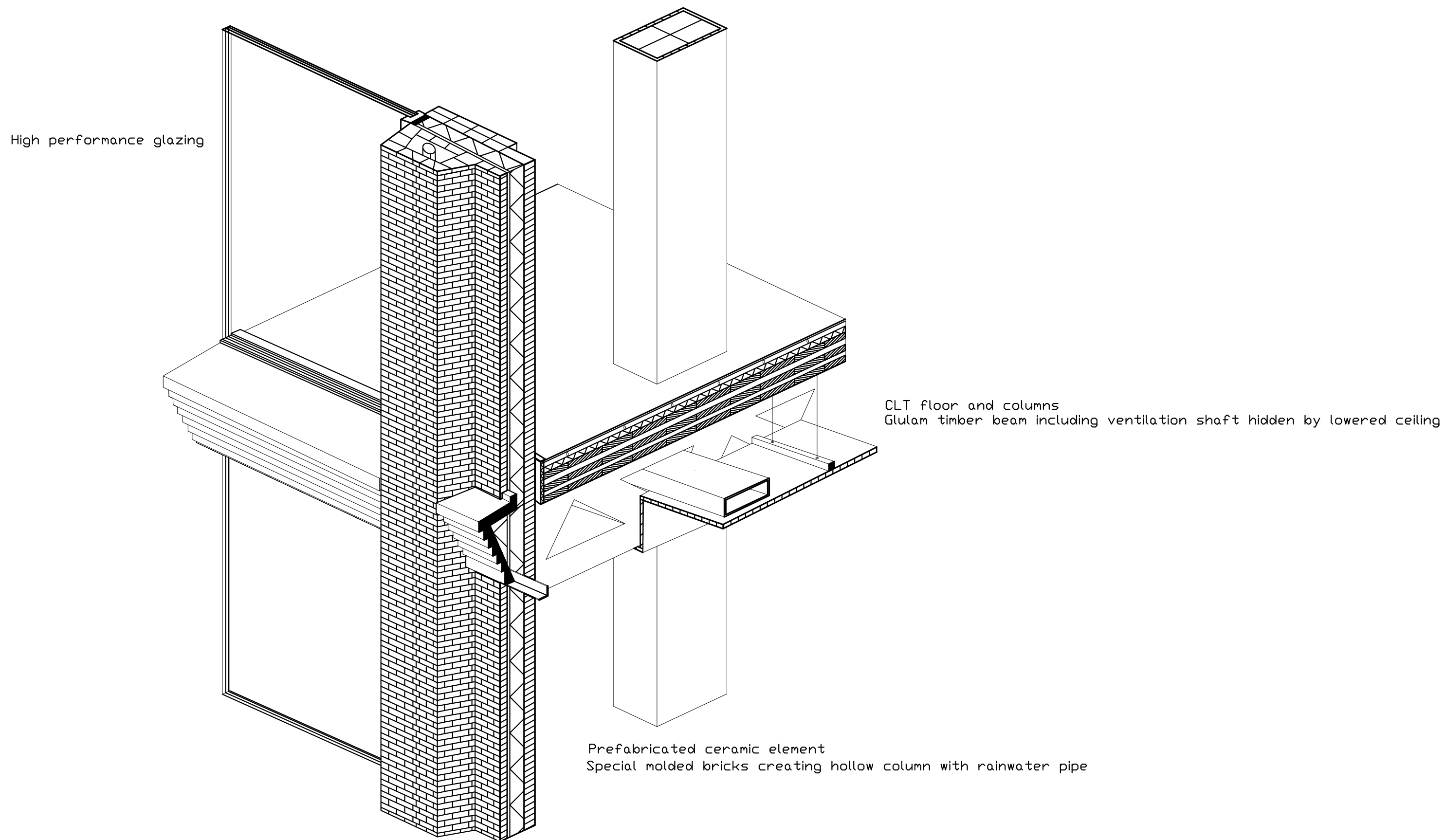


MODEL PICTURE

In site | 1:200



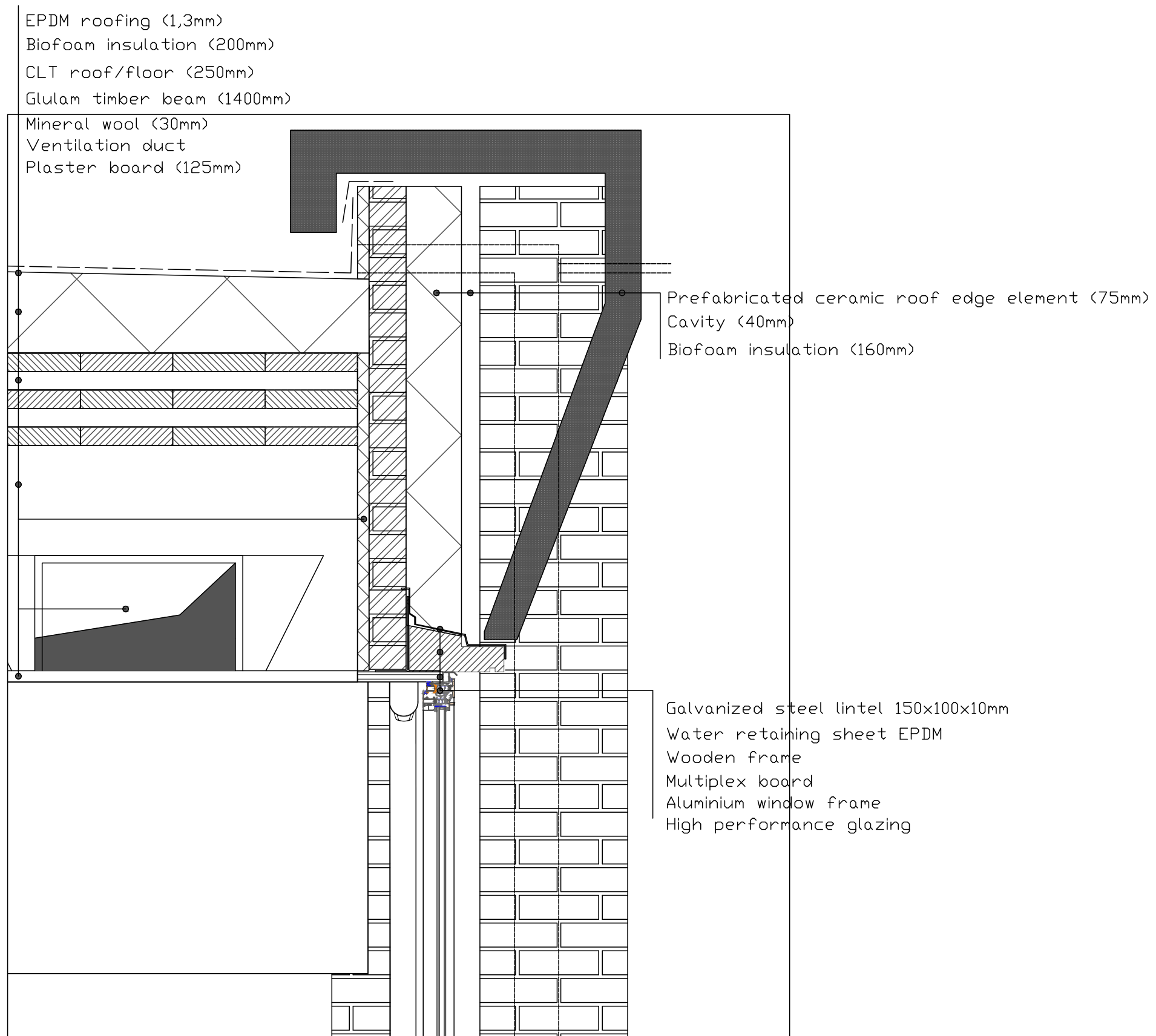




Axonometric view - connection self supporting brick facade with main construction elements

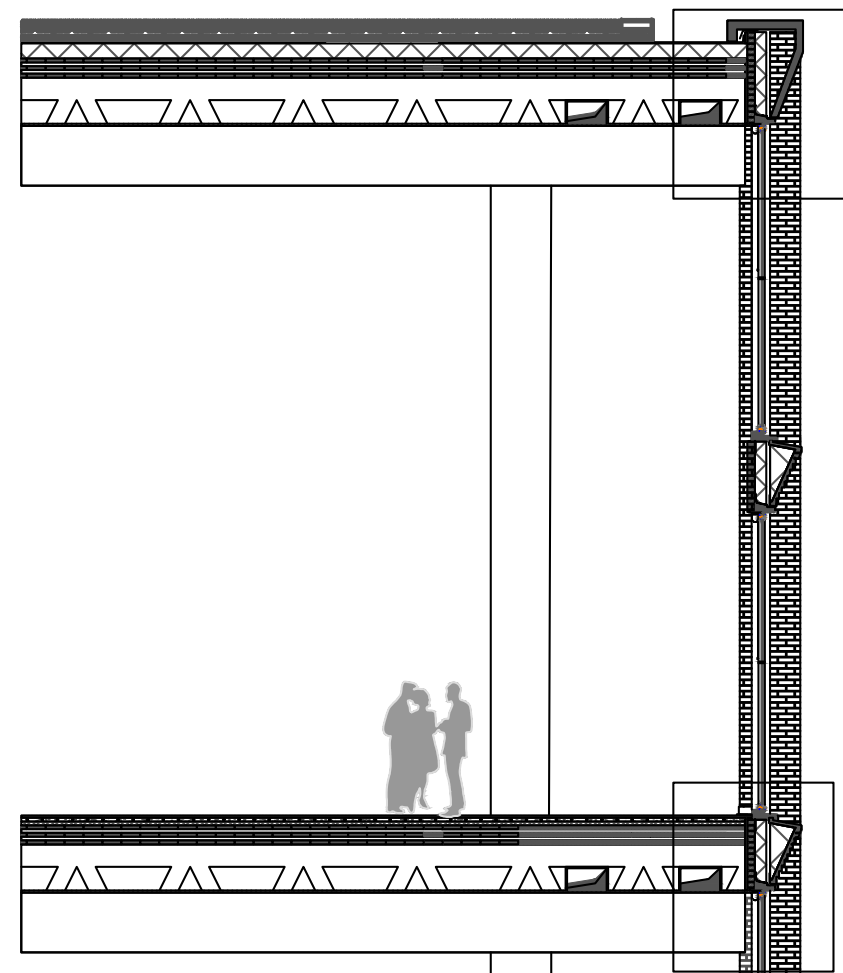
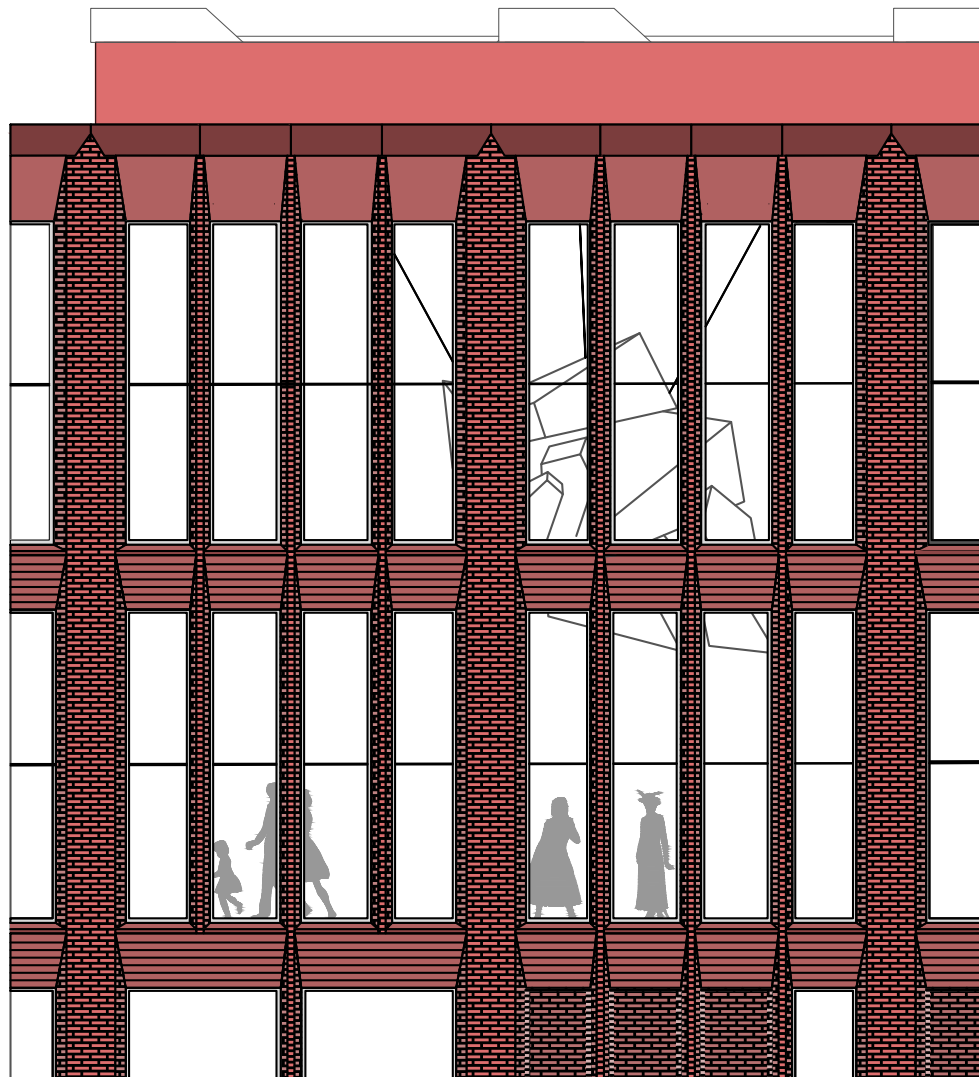
STRUCTURAL ELEMENTS

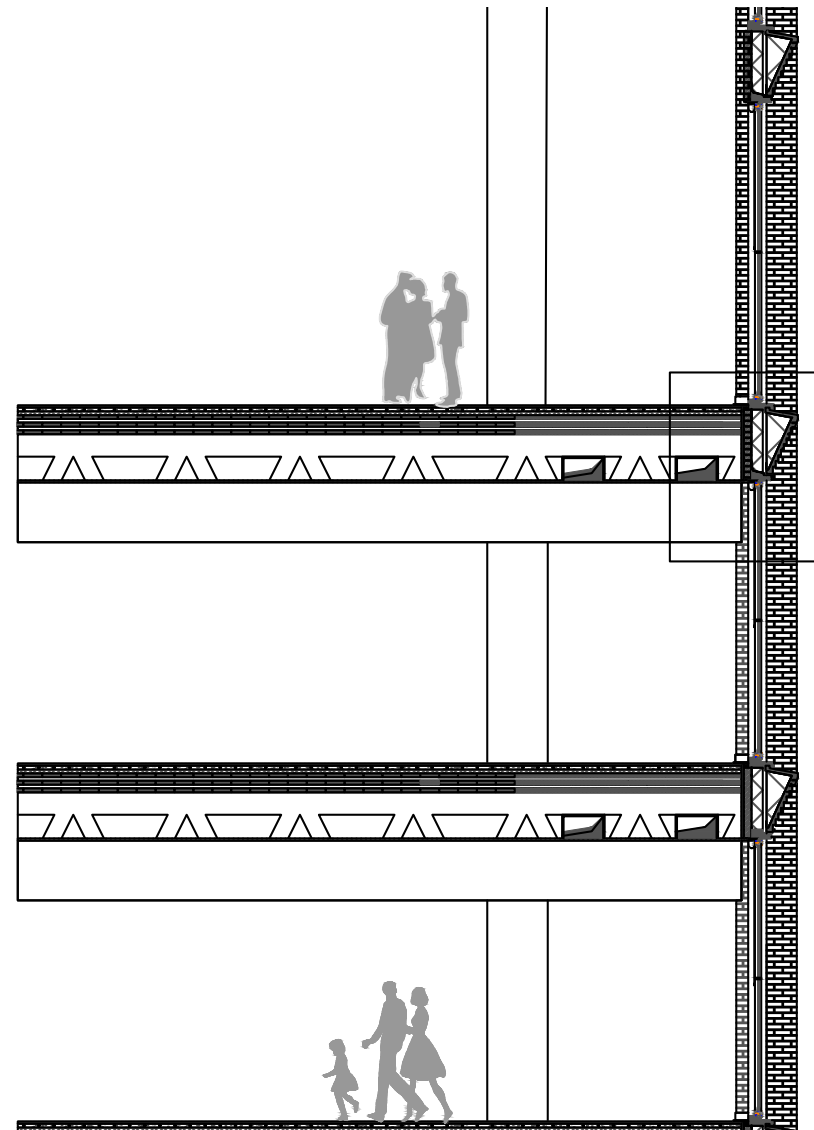
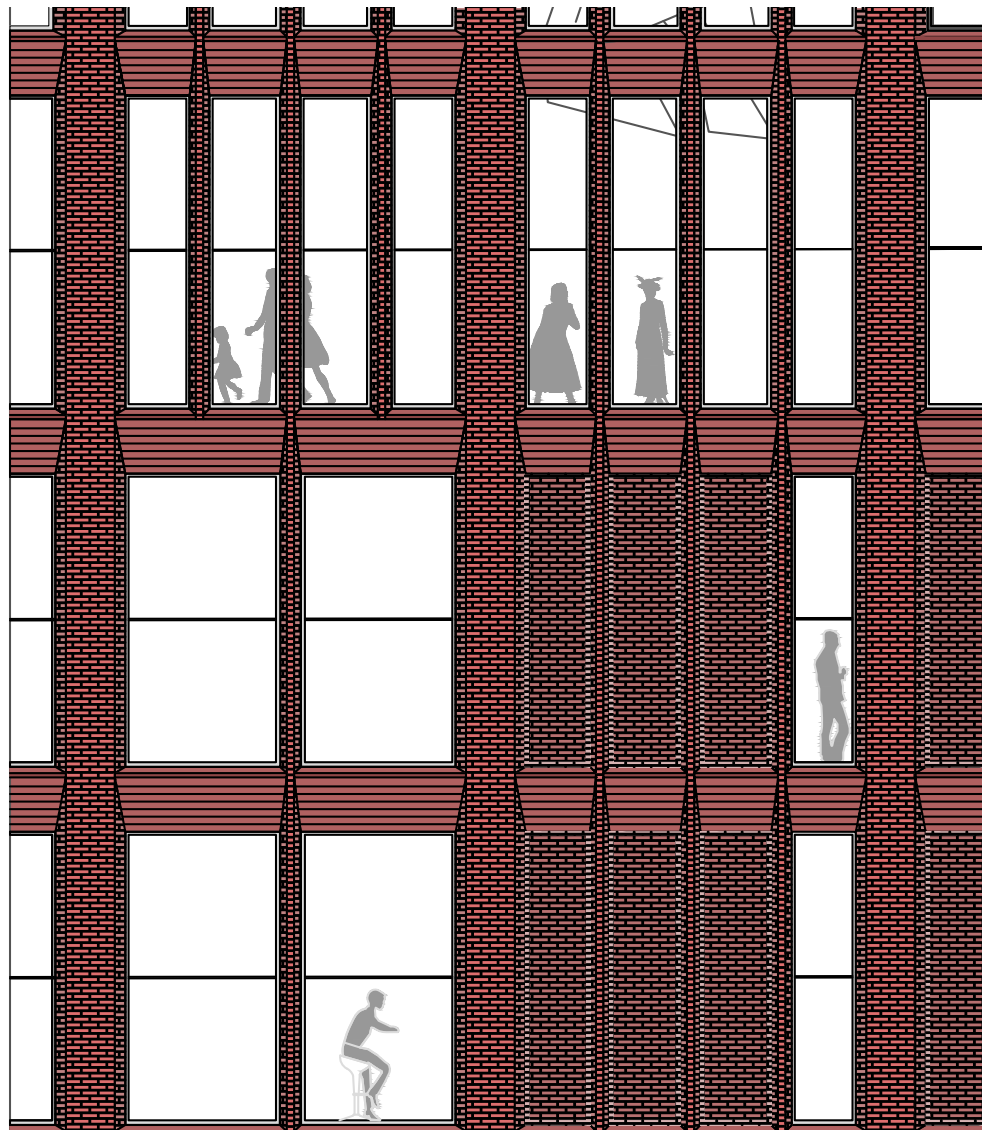
Axonometric
15

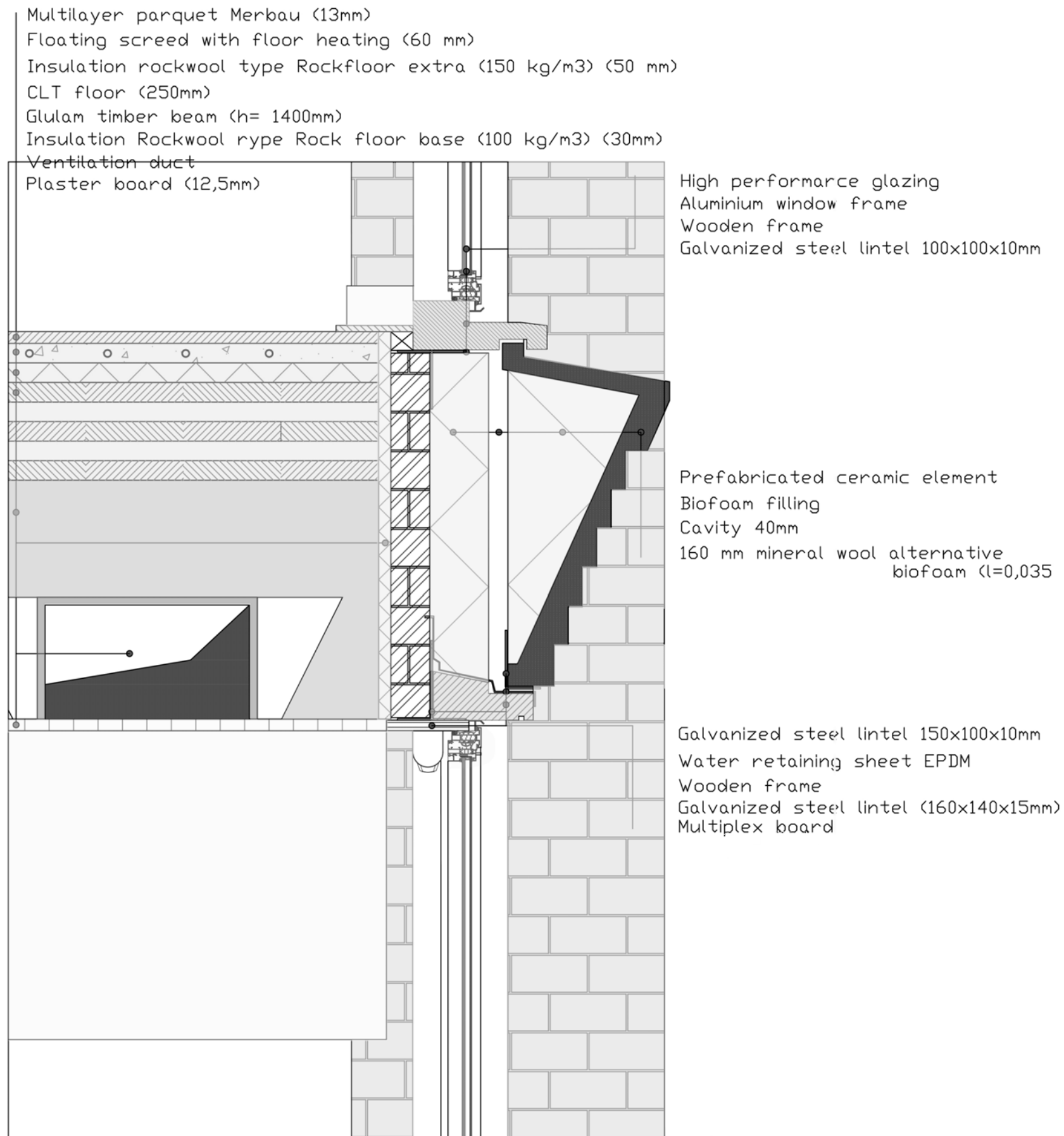


STRUCTURAL DETAIL 1:10

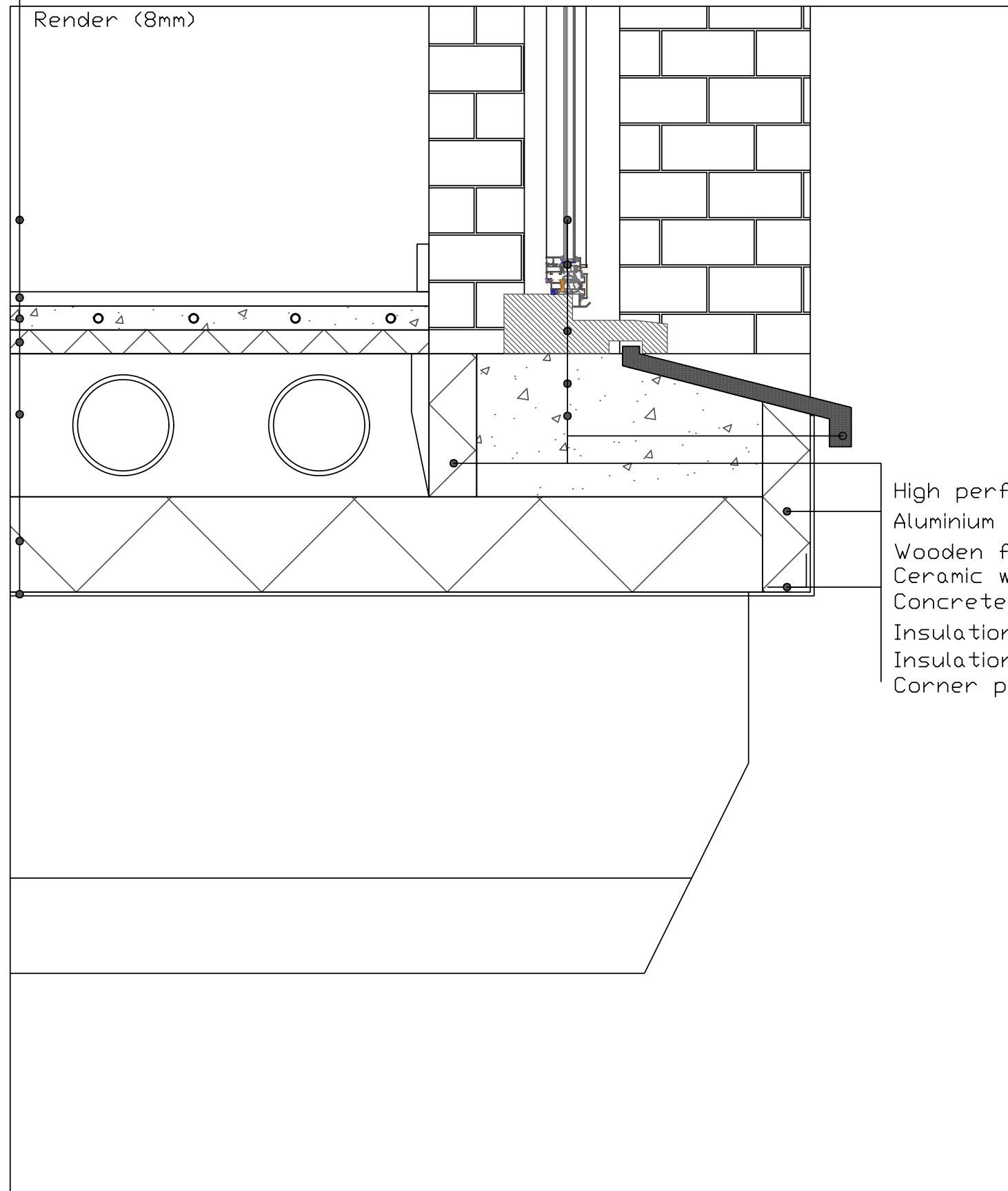
Roof edge with ceramic element







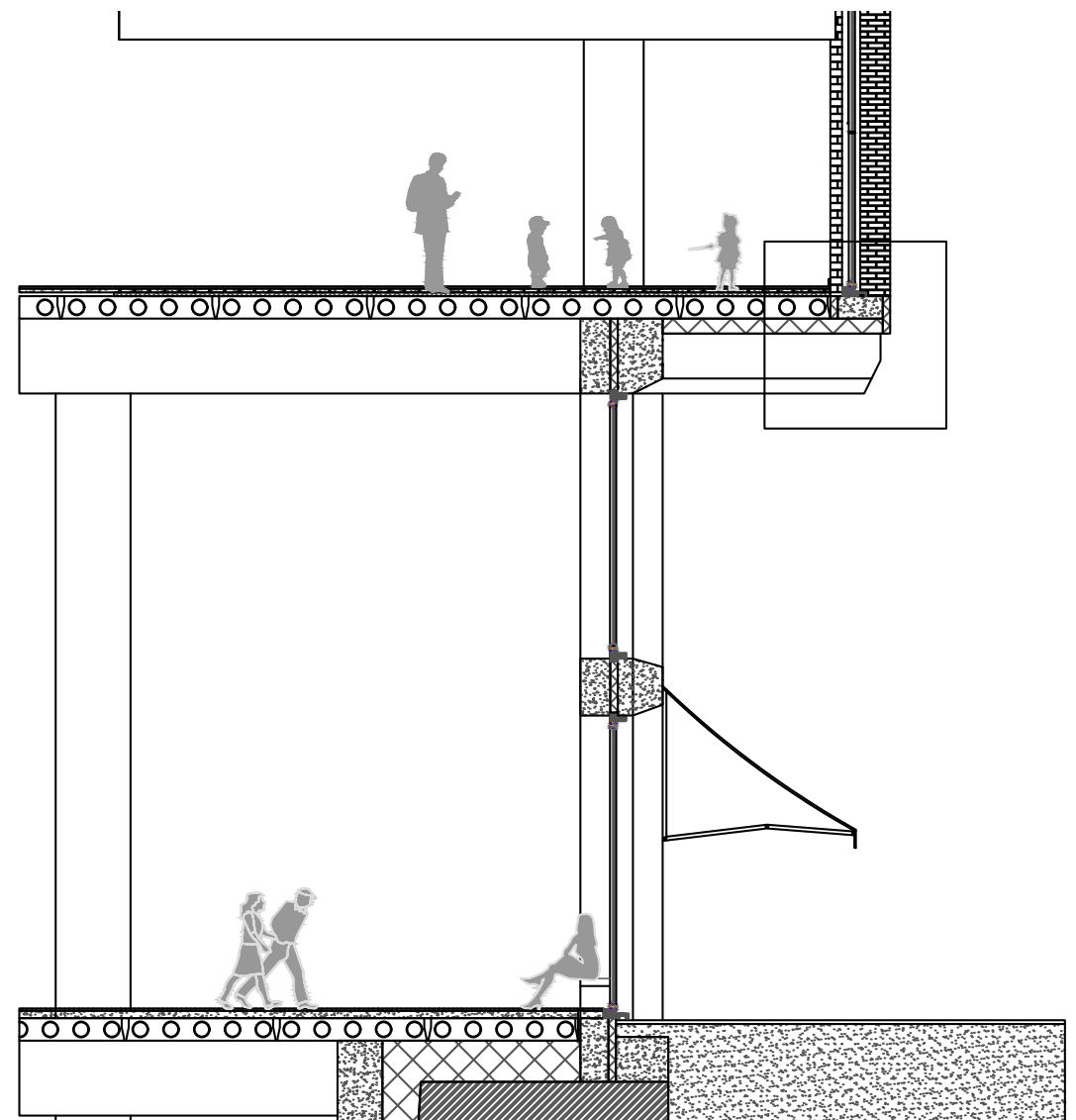
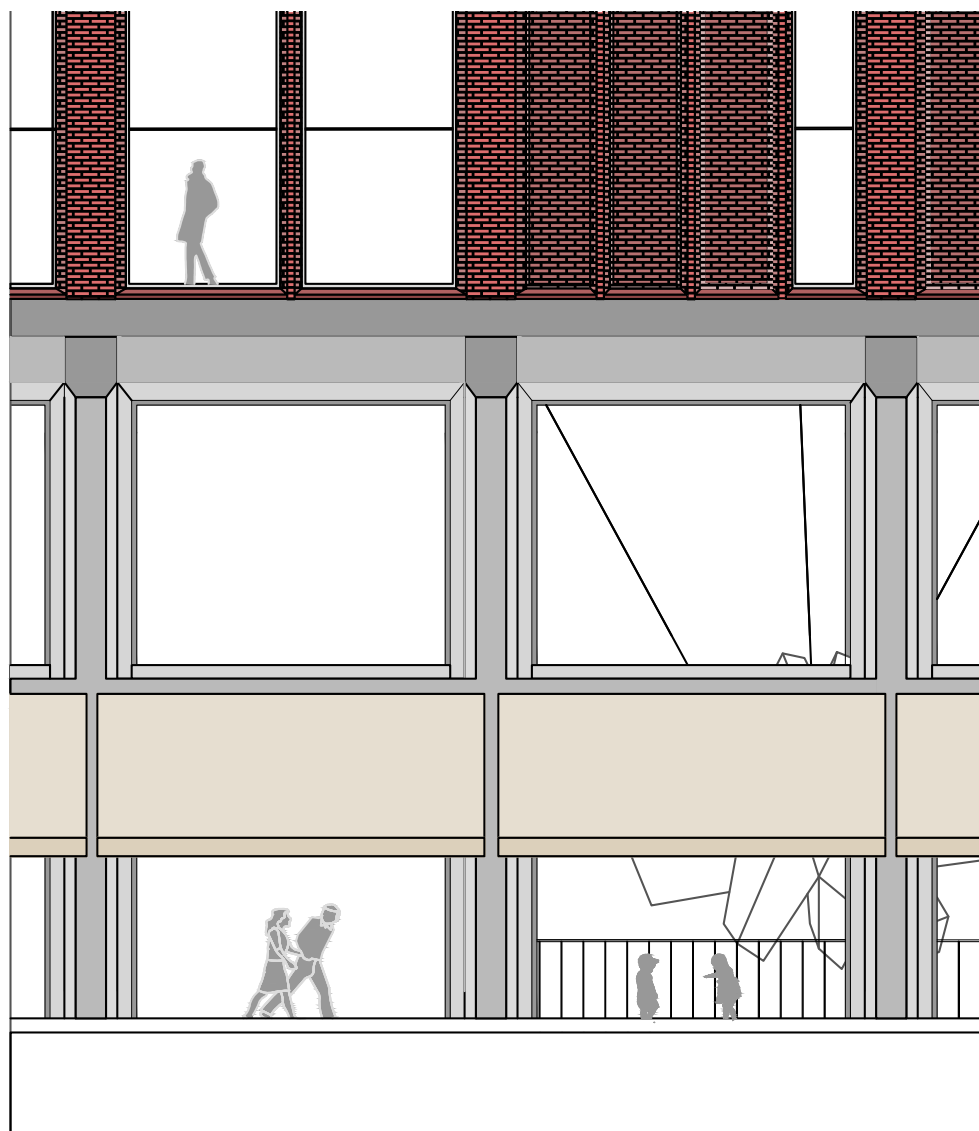
Multilayer parquet Merbau (13mm)
 Floating screed with floor heating (60 mm)
 Insulation rockwool type Rockfloor extra (150 kg/m3) (50 mm)
 Concrete hollow floor slabs (300mm)
 Insulation mineral wool (200mm)
 Render (8mm)

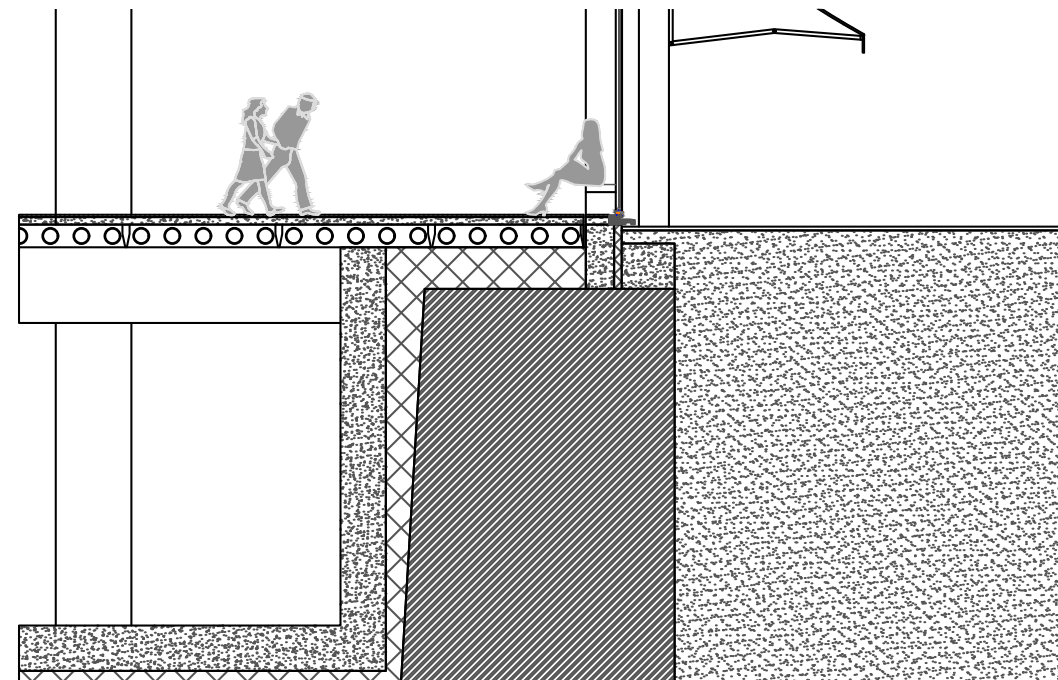
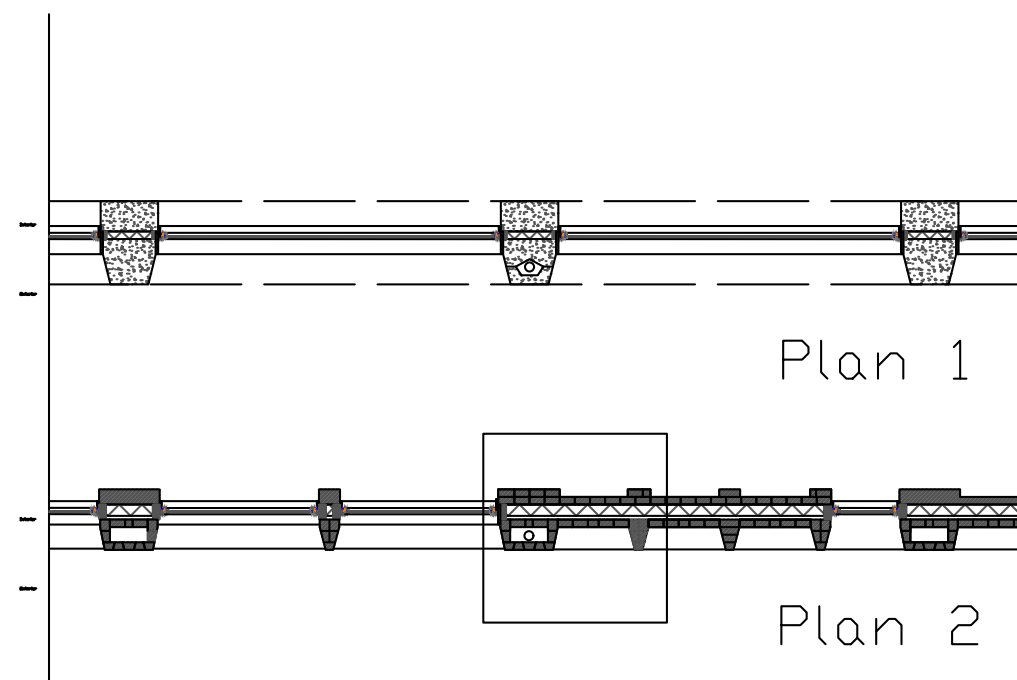
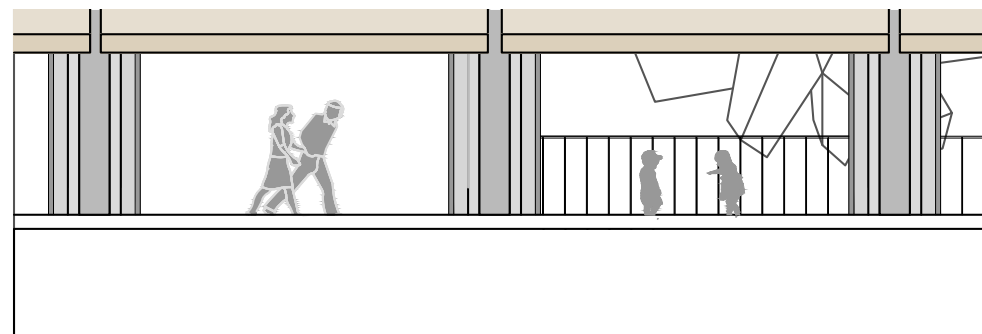


High performance glazing
 Aluminium window frame
 Wooden frame
 Ceramic window sill
 Concrete beam (300mm)
 Insulation mineral wool (100mm)
 Insulation mineral wool (100mm)
 Corner profile

STRUCTURAL DETAIL 1:10

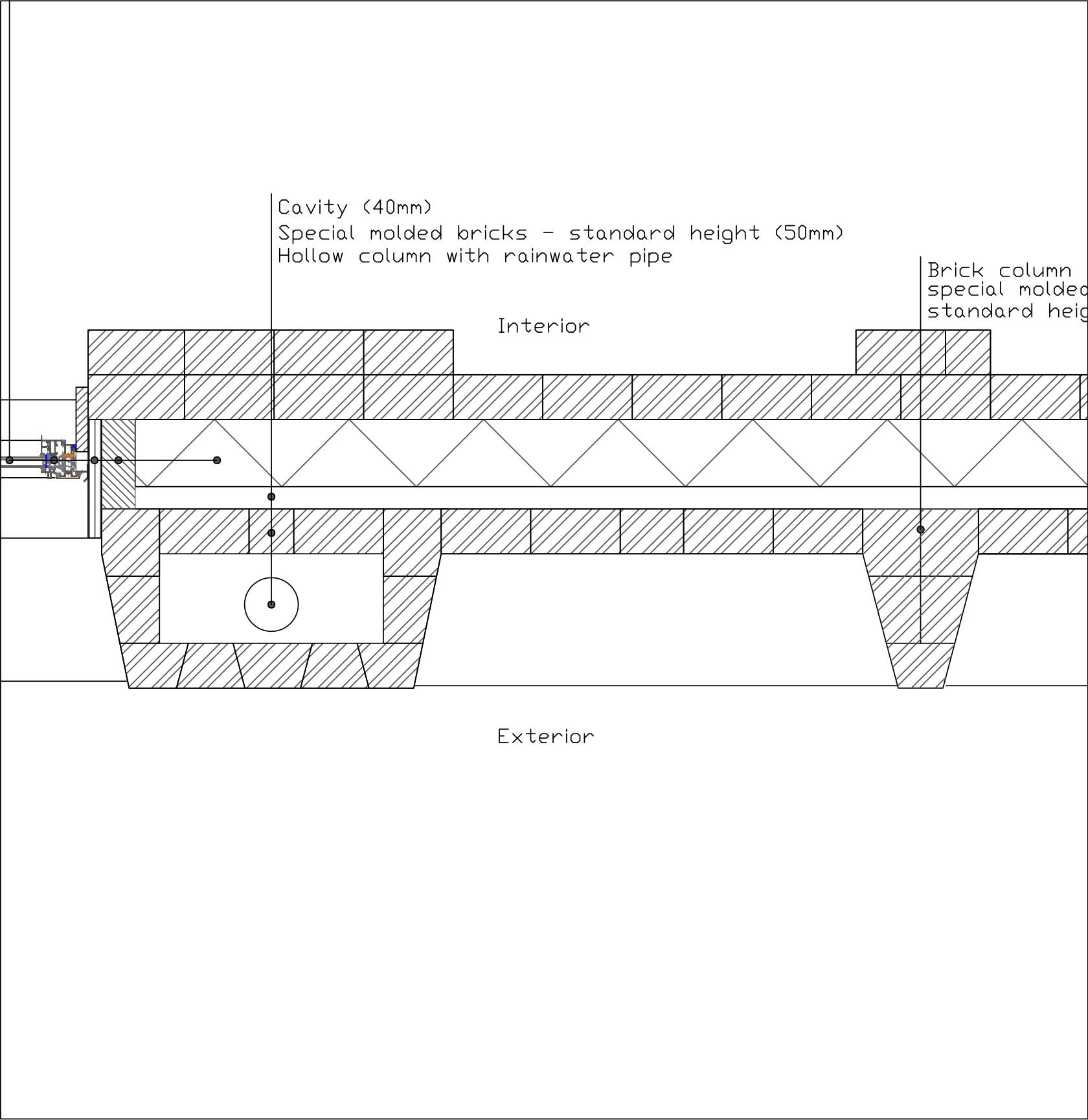
Facade concrete structure with masonry facade and window | 1st - 2nd floor

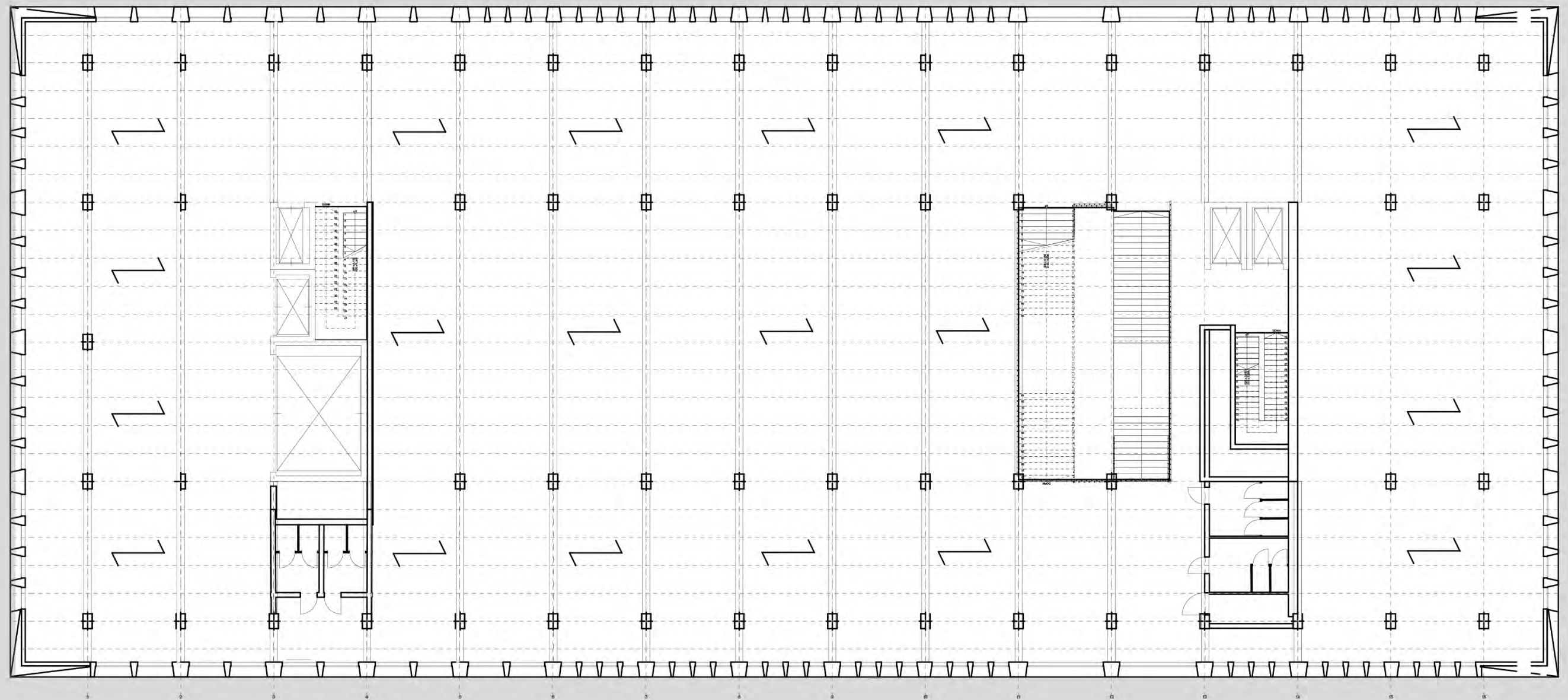


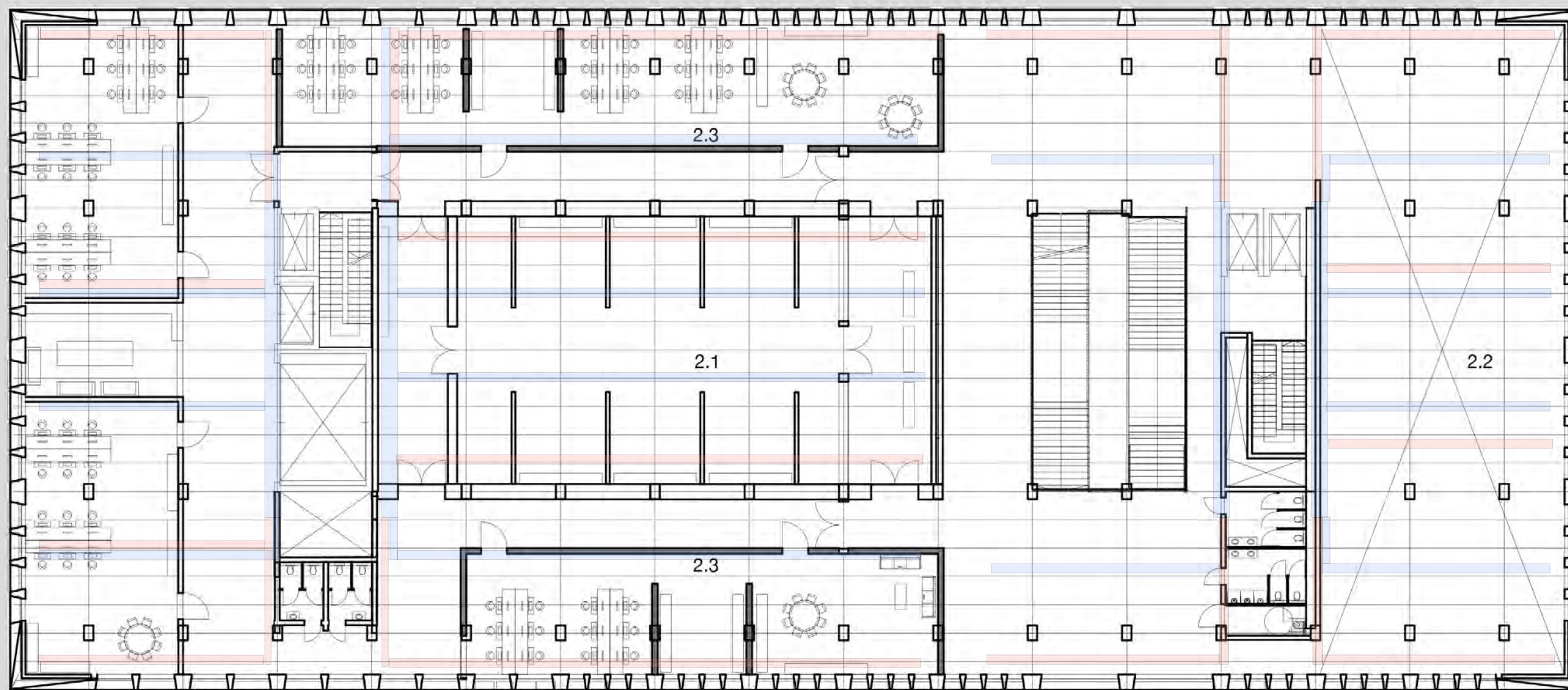


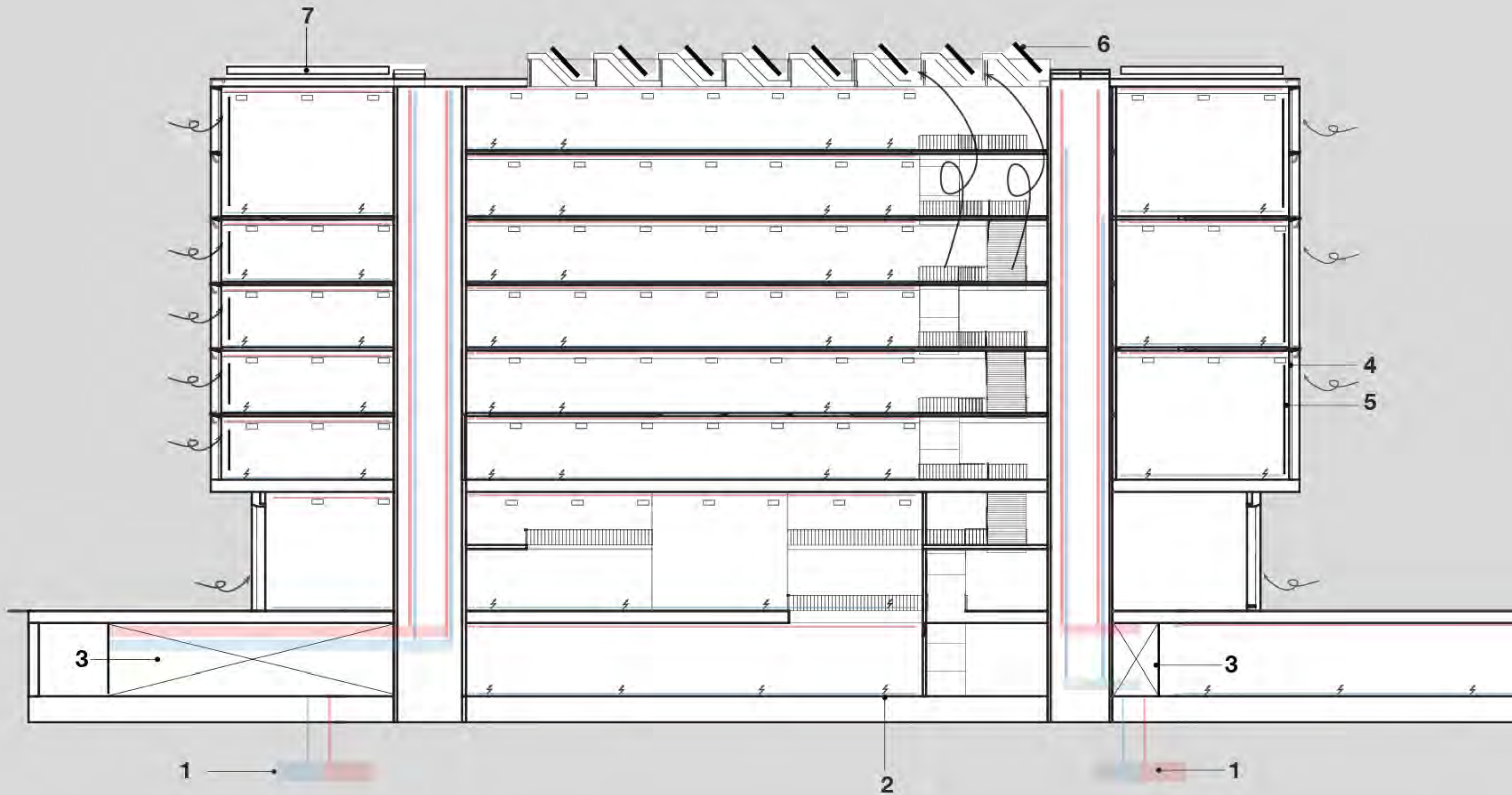
Section

High performance glazing
Aluminium window frame
Multiplex board (20mm)
Wooden frame
Insulation biofoam (λ=0,035) (160mm)



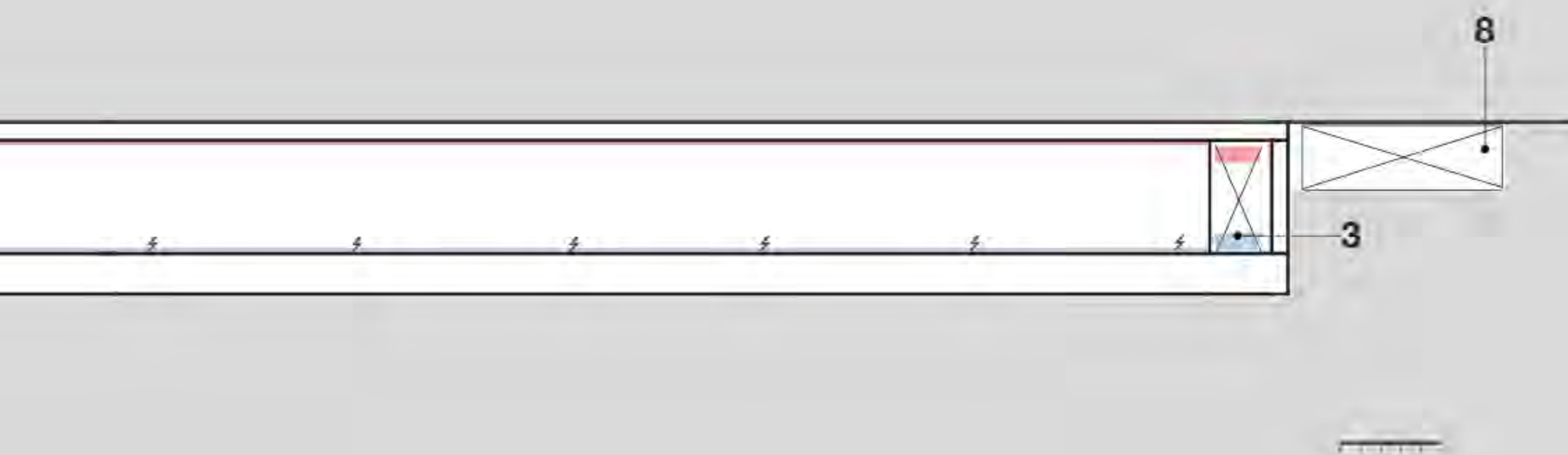






CLIMATE DESIGN

- 1 | Heat pump (water - water)
- 2 | Under floor heating - low temperature
- 3 | AHU
- 4 | Self - regulating ventilation shafts
- 5 | Internal roller blinds
- 6 | Solar panels facing South
- 7 | Green roof
- 8 | Rain water collecting through ponds in the park





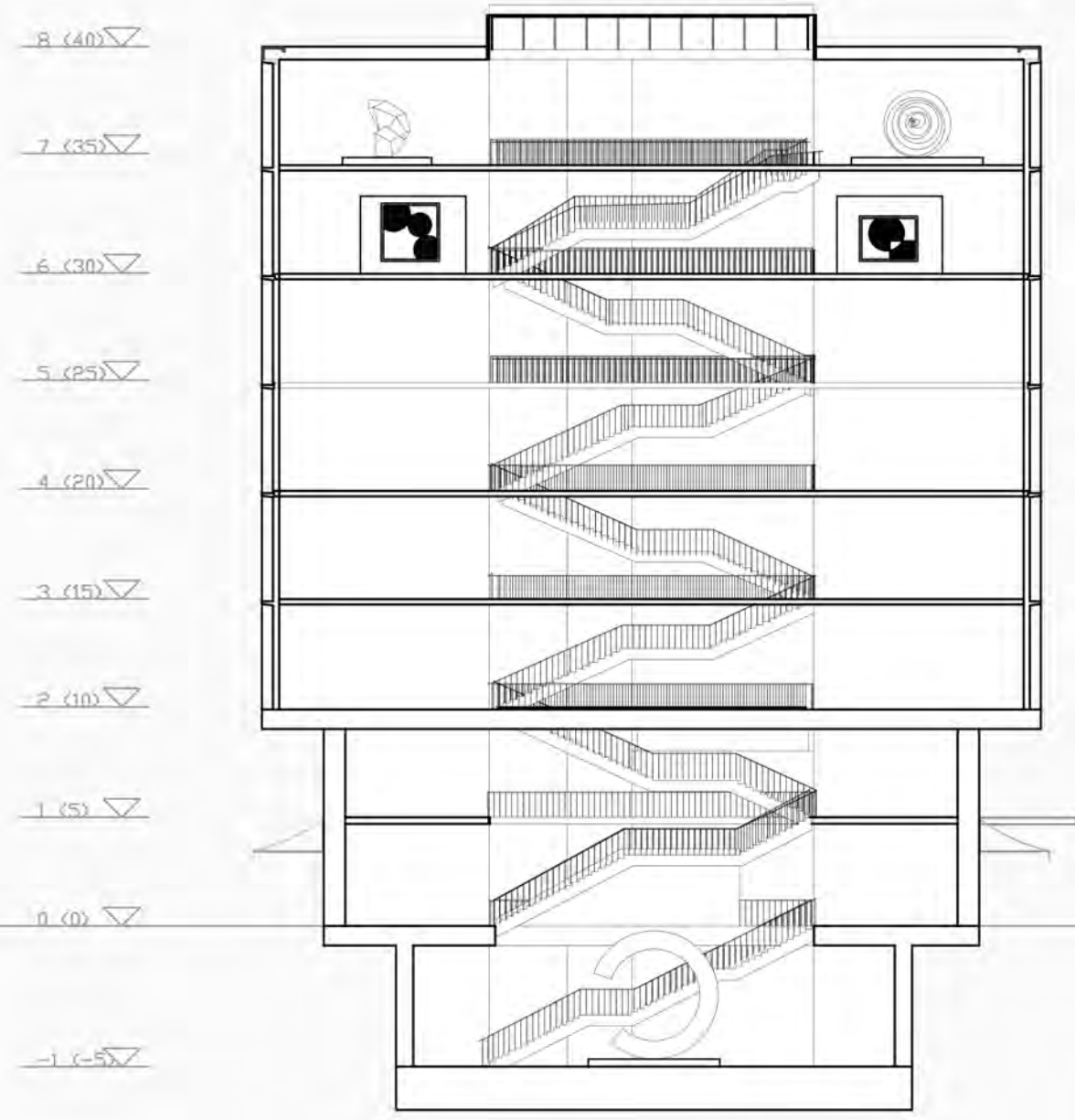
MODEL PICTURE

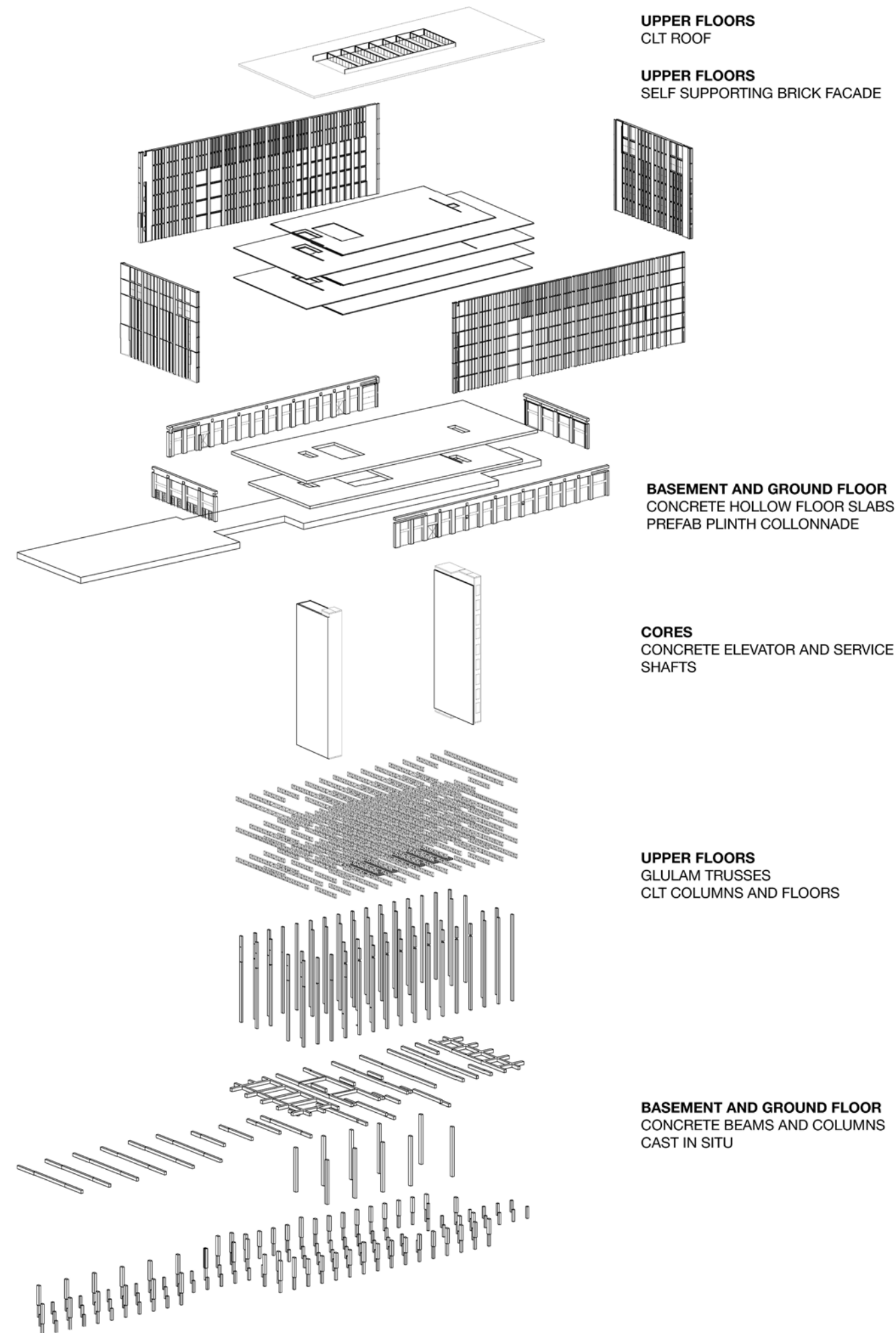
In site | 1:200

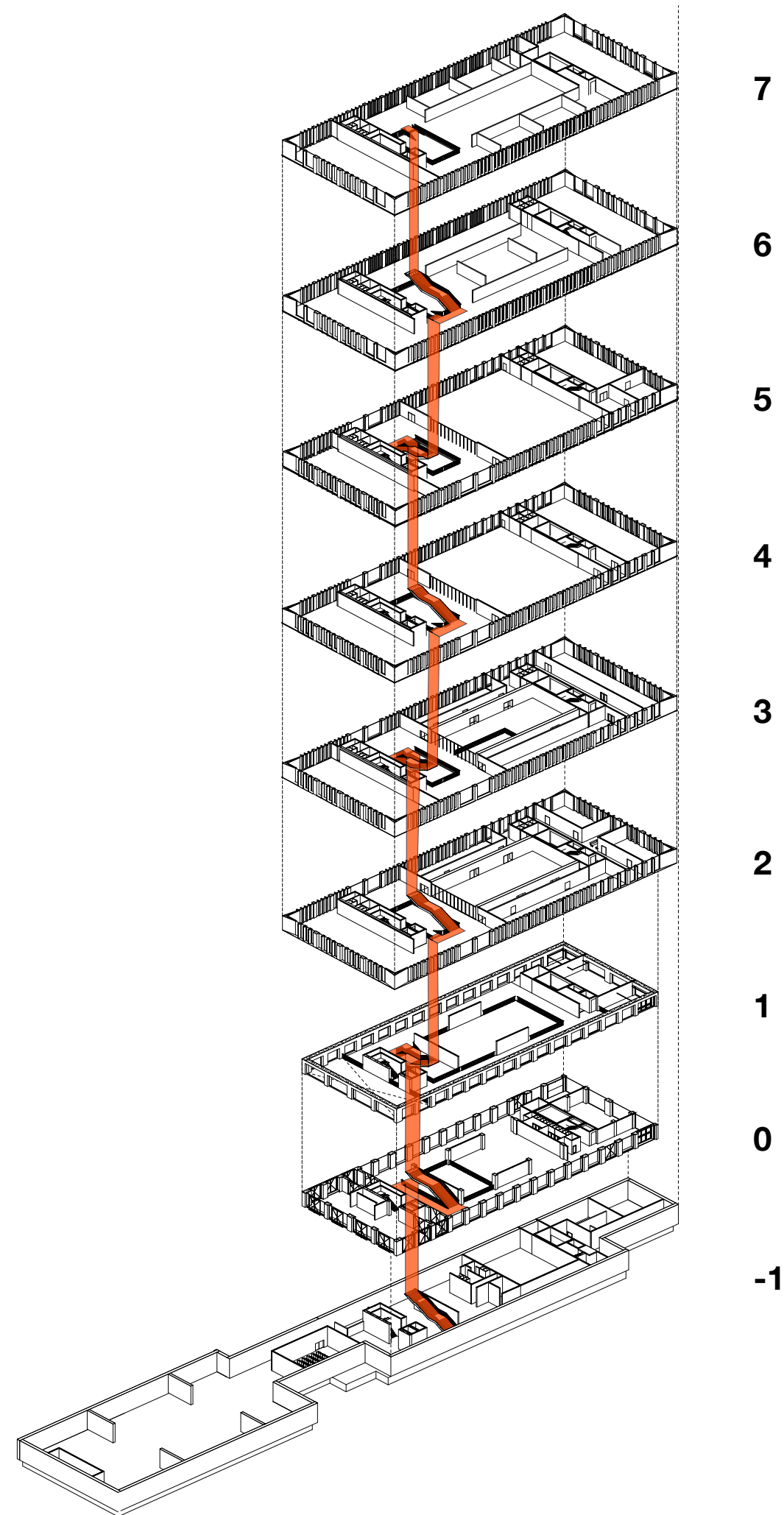


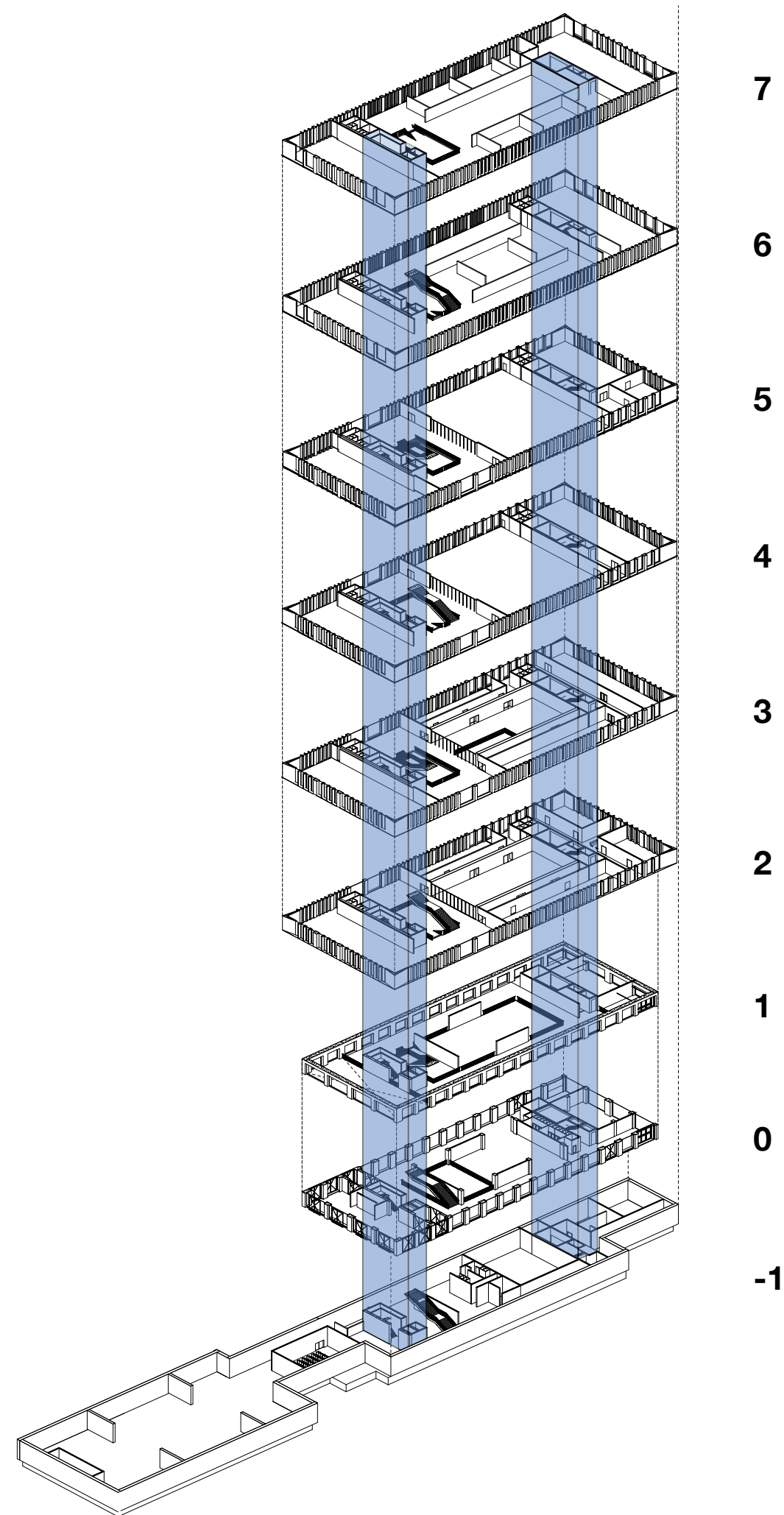
MODEL PICTURE

In site | 1:200









7

6

5

4

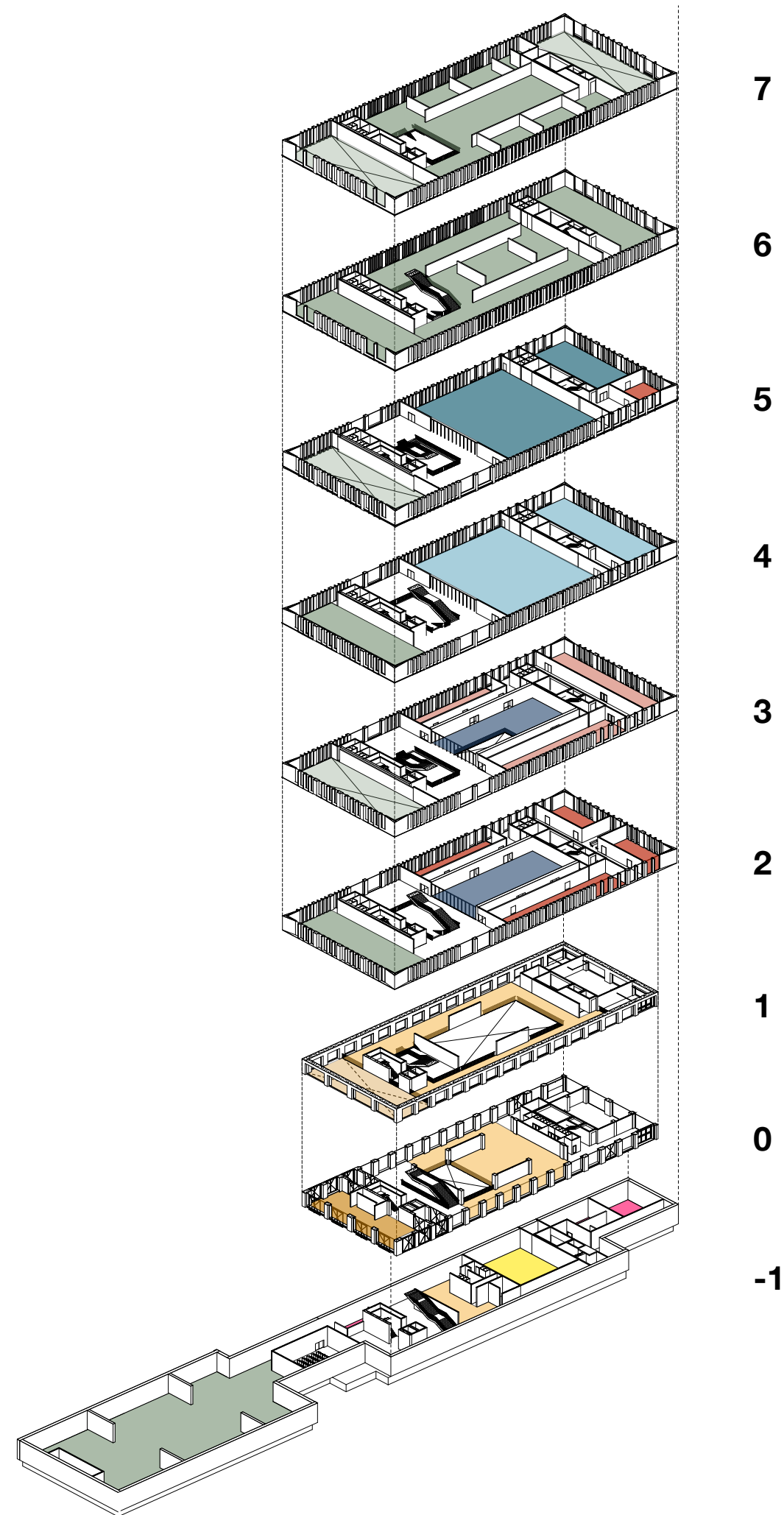
3

2

1

0

-1



7

6

5

4

3

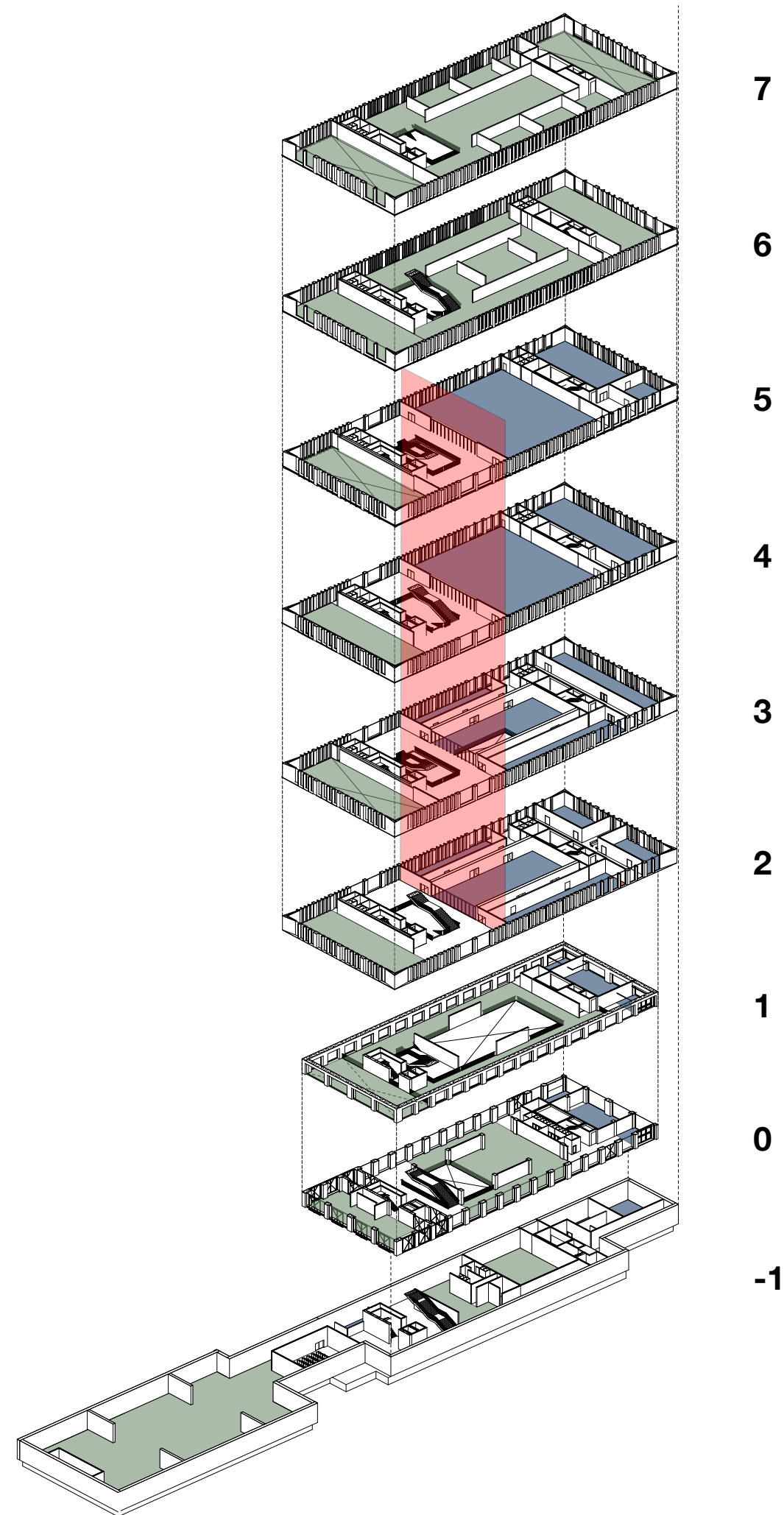
2

1

0

-1

- EXHIBITION SPACE
- DOCUMENTATION CENTRE
- DEPOT
- ARCHIVE
- TECHNICAL SPACE
- ATELIER & WORKSHOPS
- OFFICE SPACES
- RESTAURANT & MUSEUM SHOP
- FORUM
- AUDITORIUM

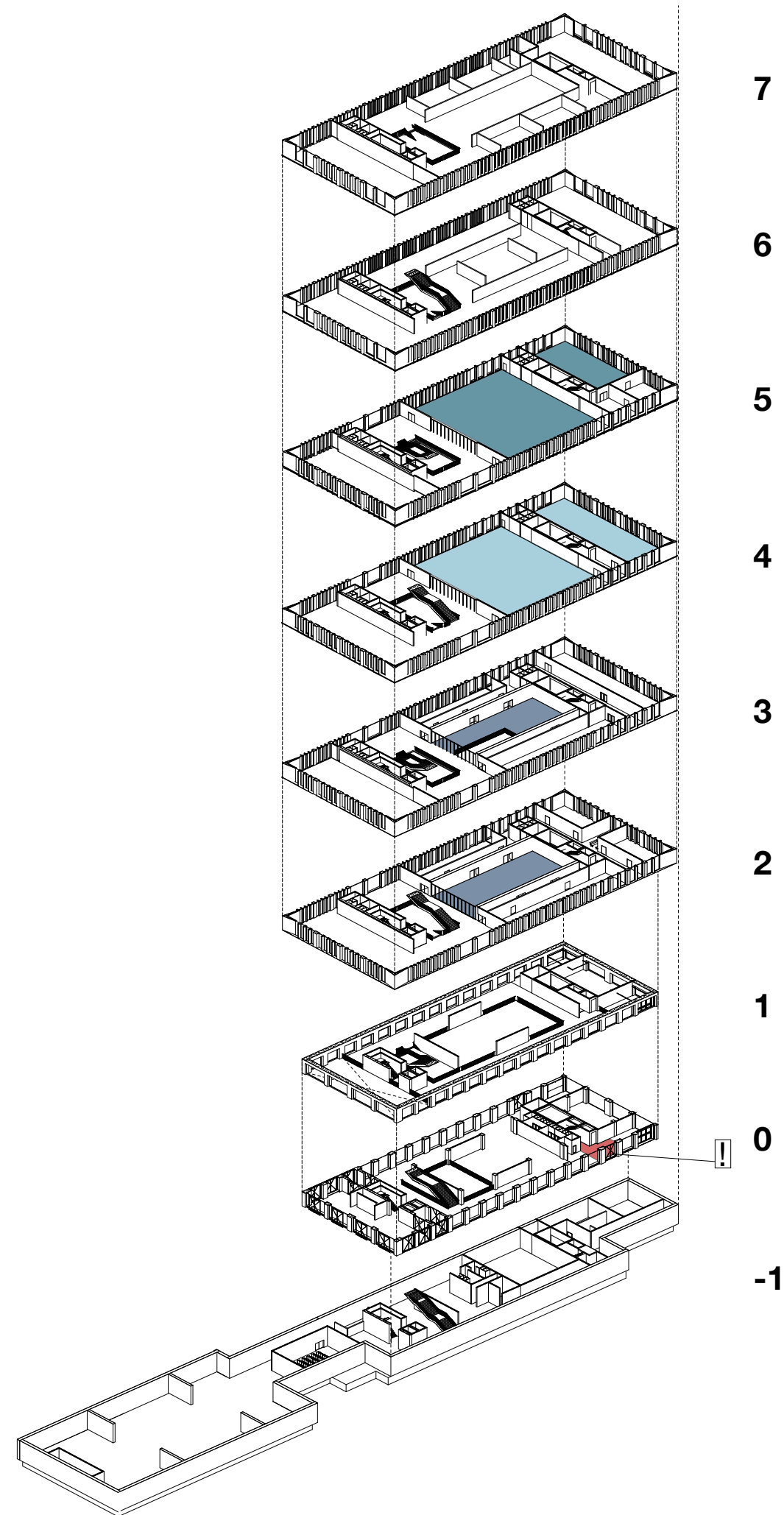


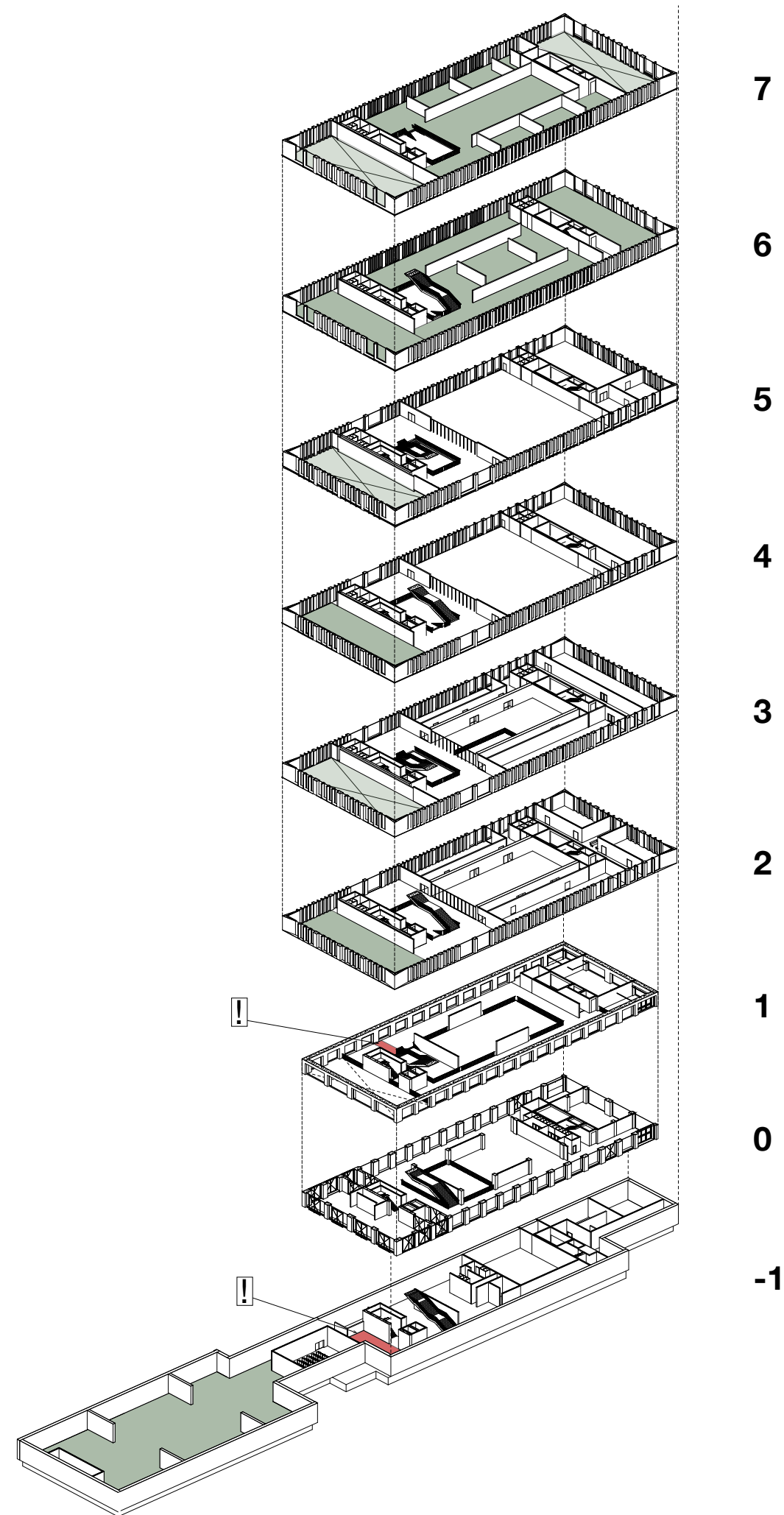
TRANSPARENT DIVISION

BACK - OFFICE

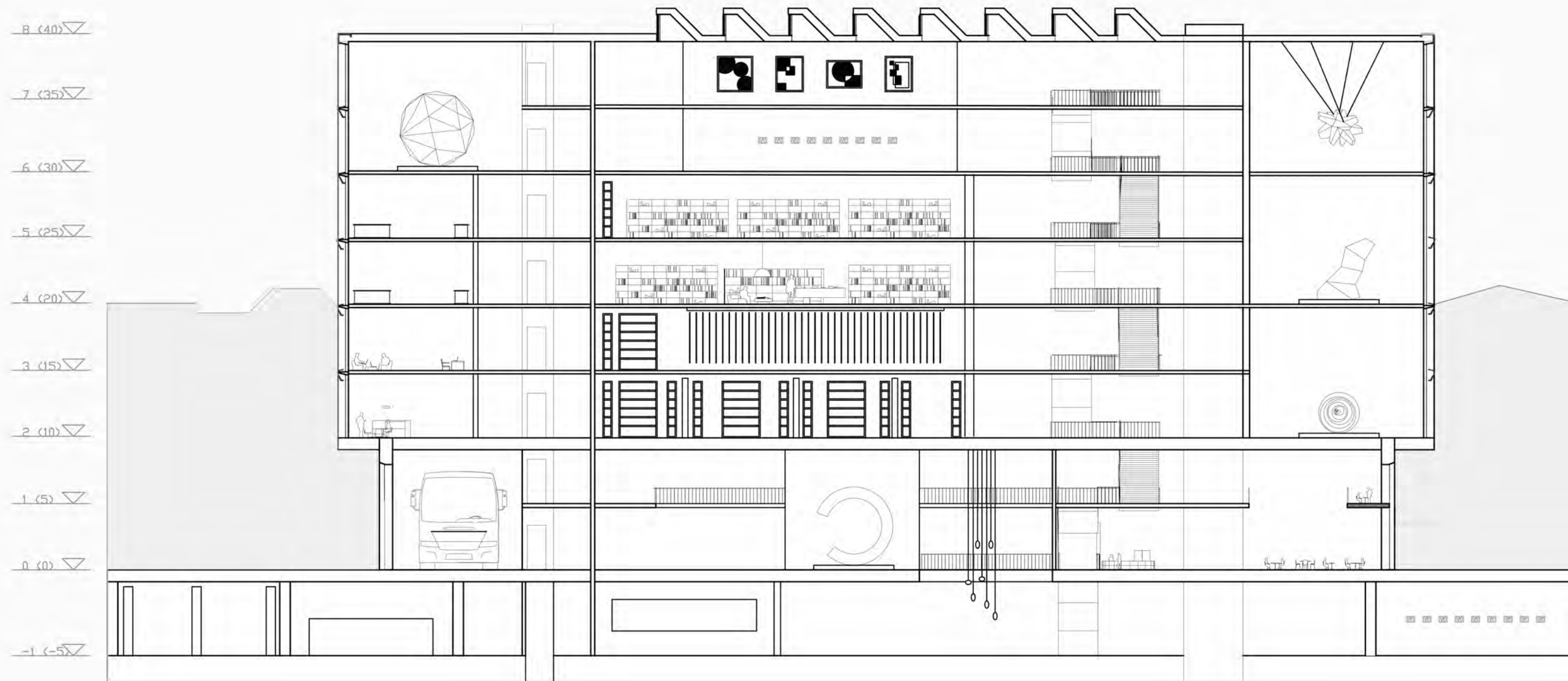
PUBLIC

EXPLODED VIEW
Exhibition spaces
35





PAY WALL  







RENDER

Looking over the park
40

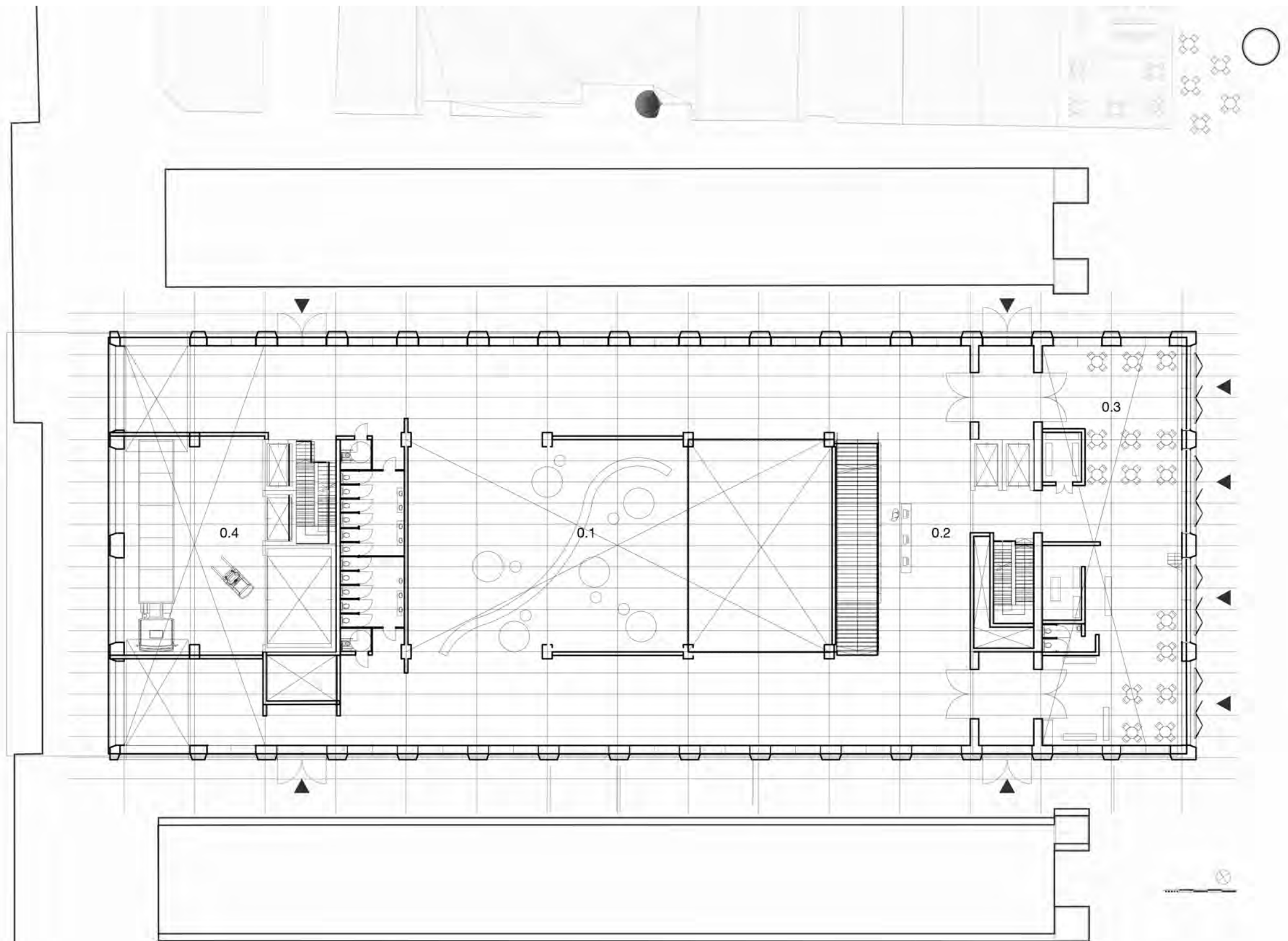




RENDER

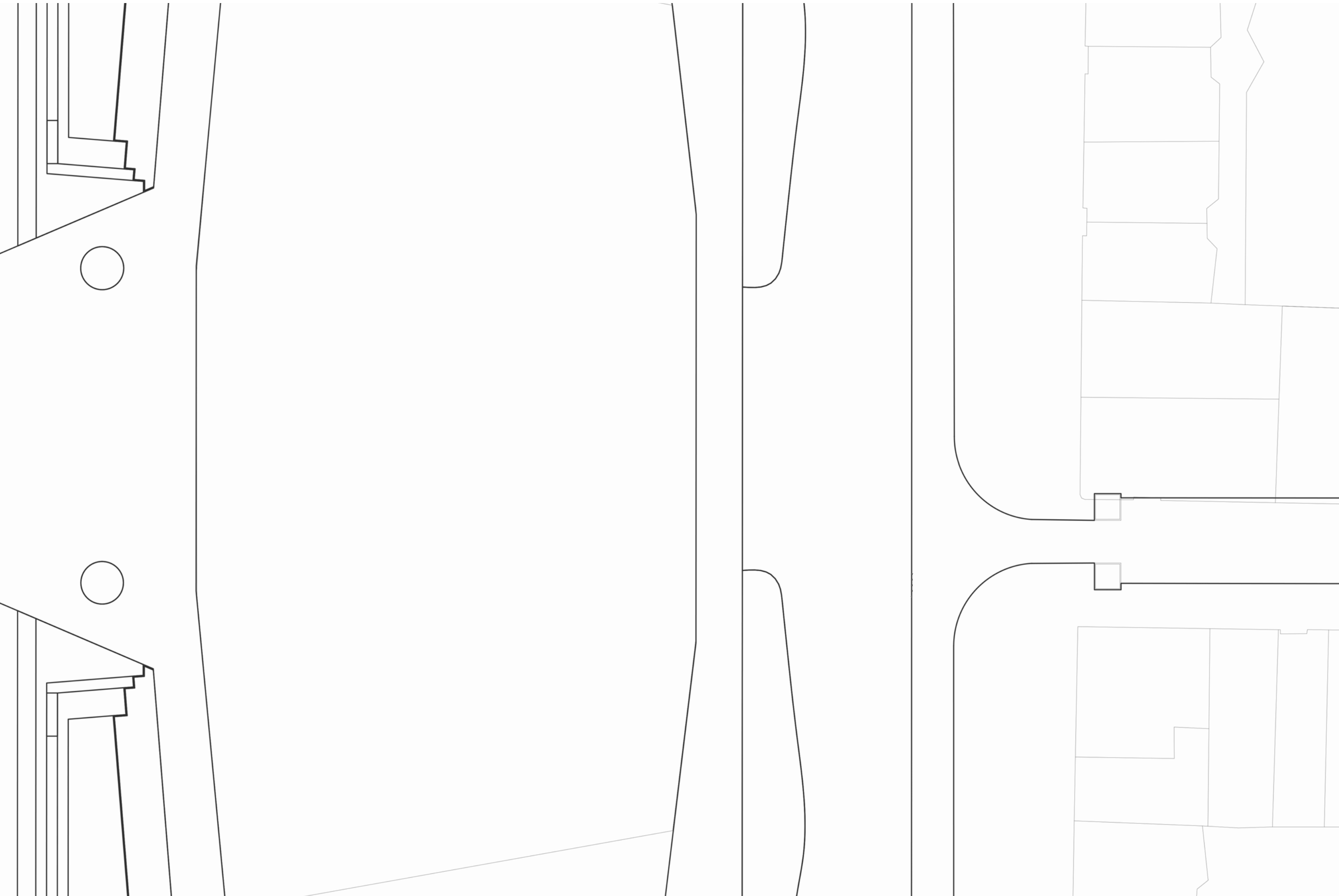
As seen from the park
42





SPACES | 0

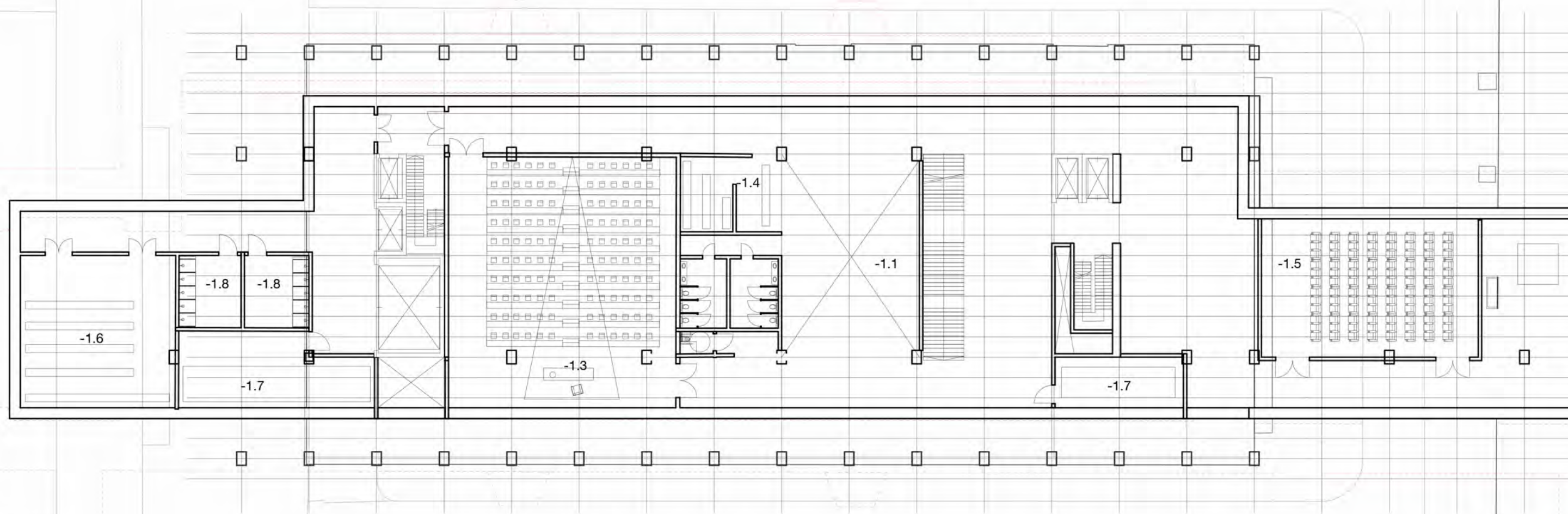
- 0.1 FORUM
 - 0.2 LOBBY
 - 0.3 RESTAURANT
 - 0.4 LOADING DOCK
- 44





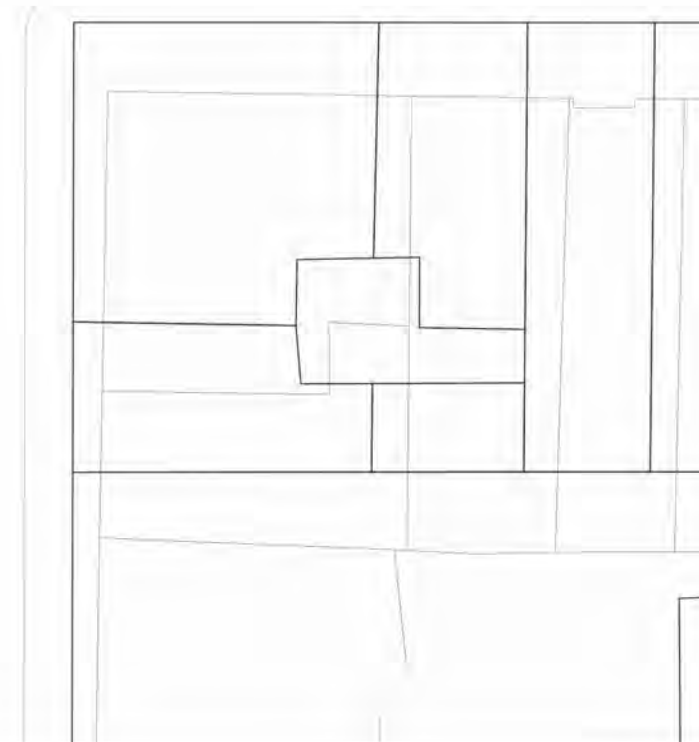
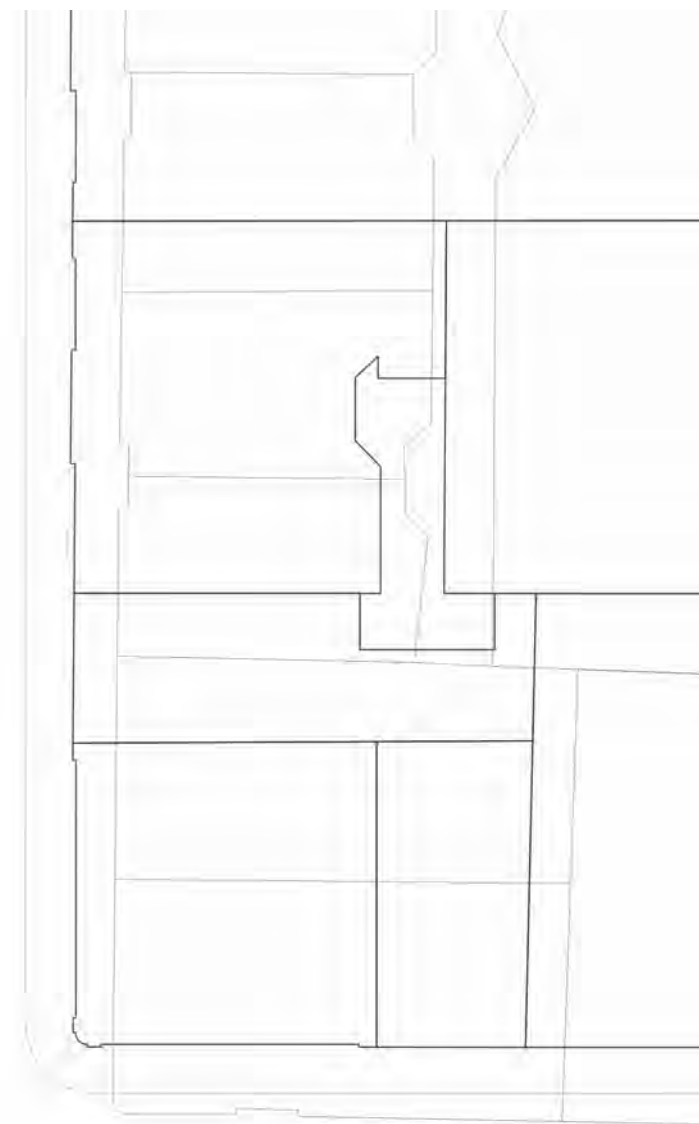
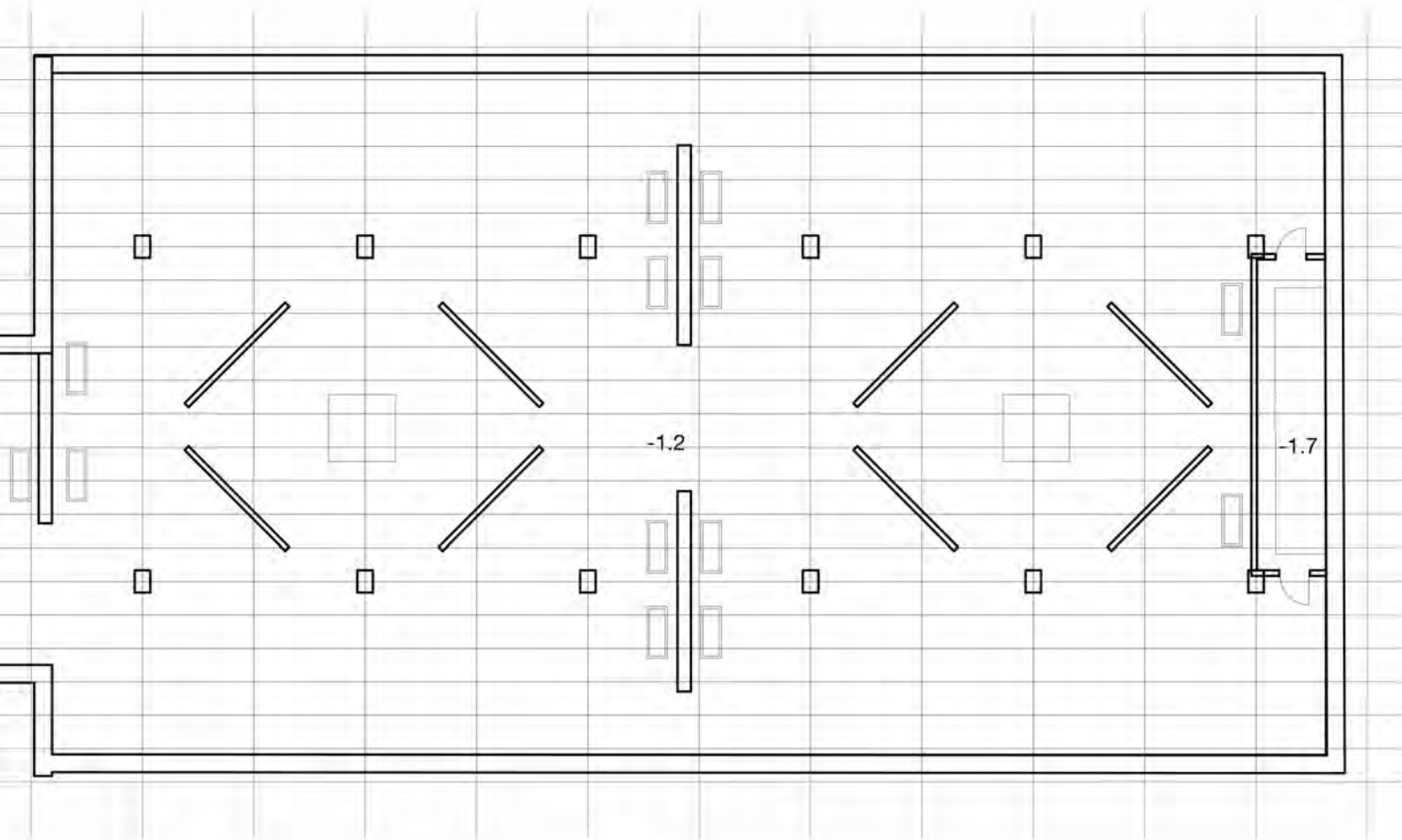
RENDER
Entrance | By day
46

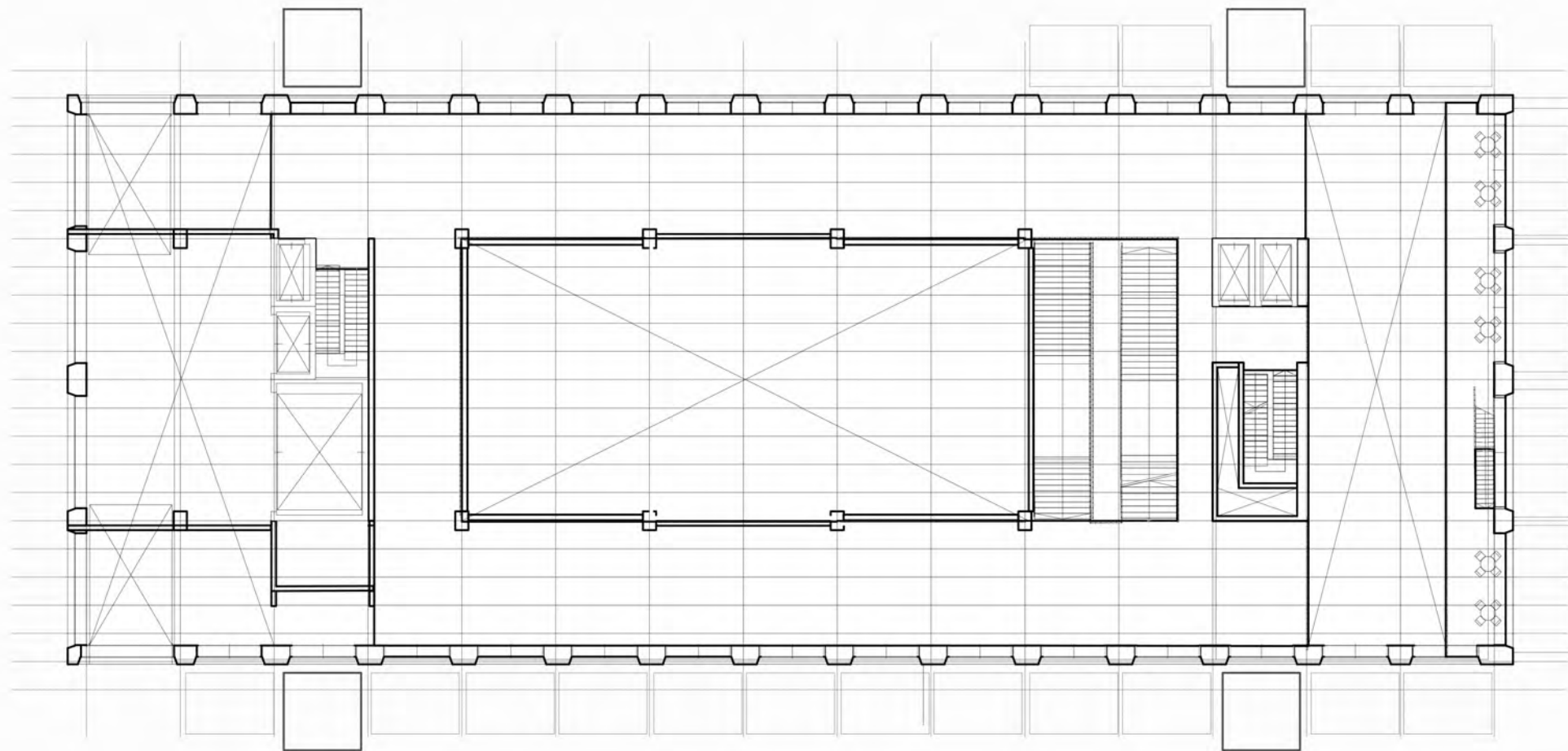




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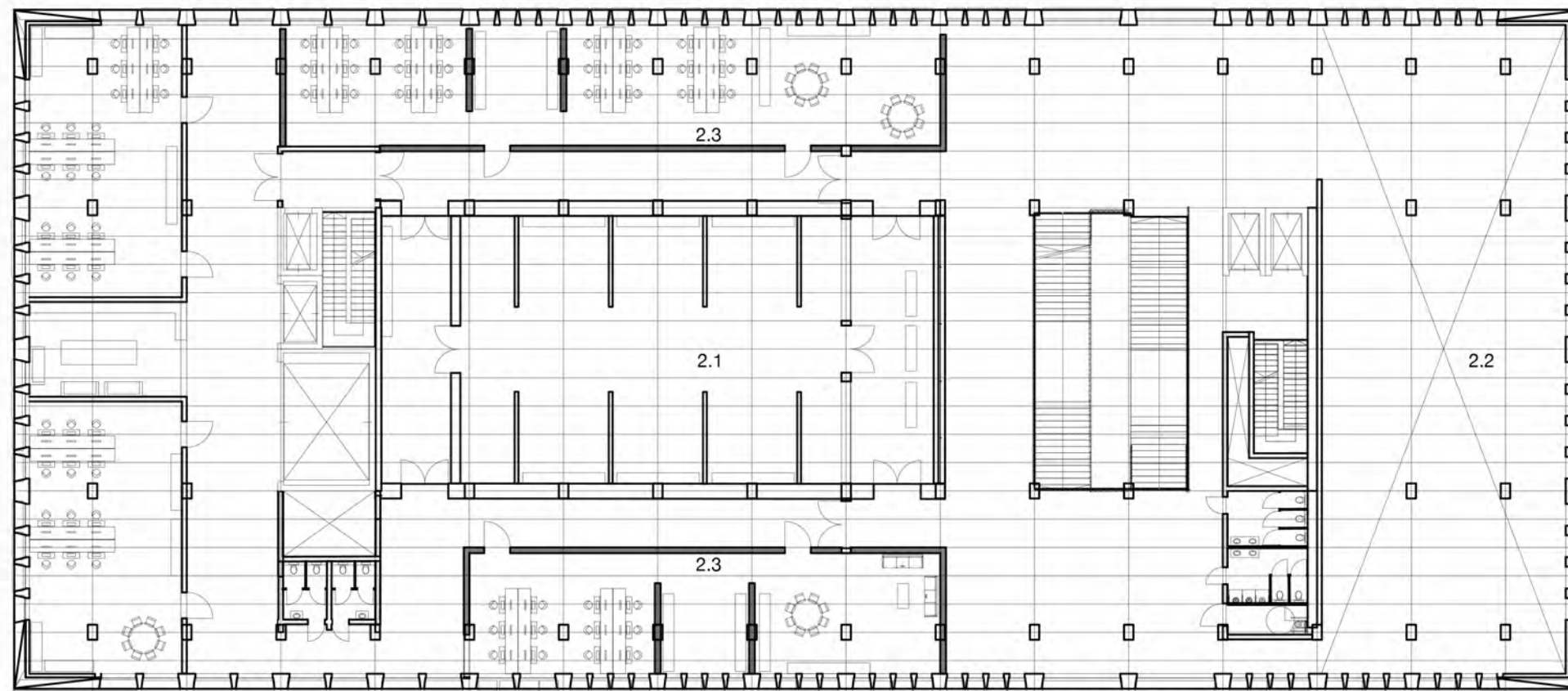
- 1.1 FORUM
- 1.2 EXHIBITION SPACES
- 1.3 AUDITORIUM
- 1.4 CLOAK ROOM
- 1.5 CINEMA
- 1.6 TECHNICAL STORAGE
- 1.7 TECHNICAL SPACE





SPACES | 1

1.1 FORUM
1.2 RESTAURANT
50



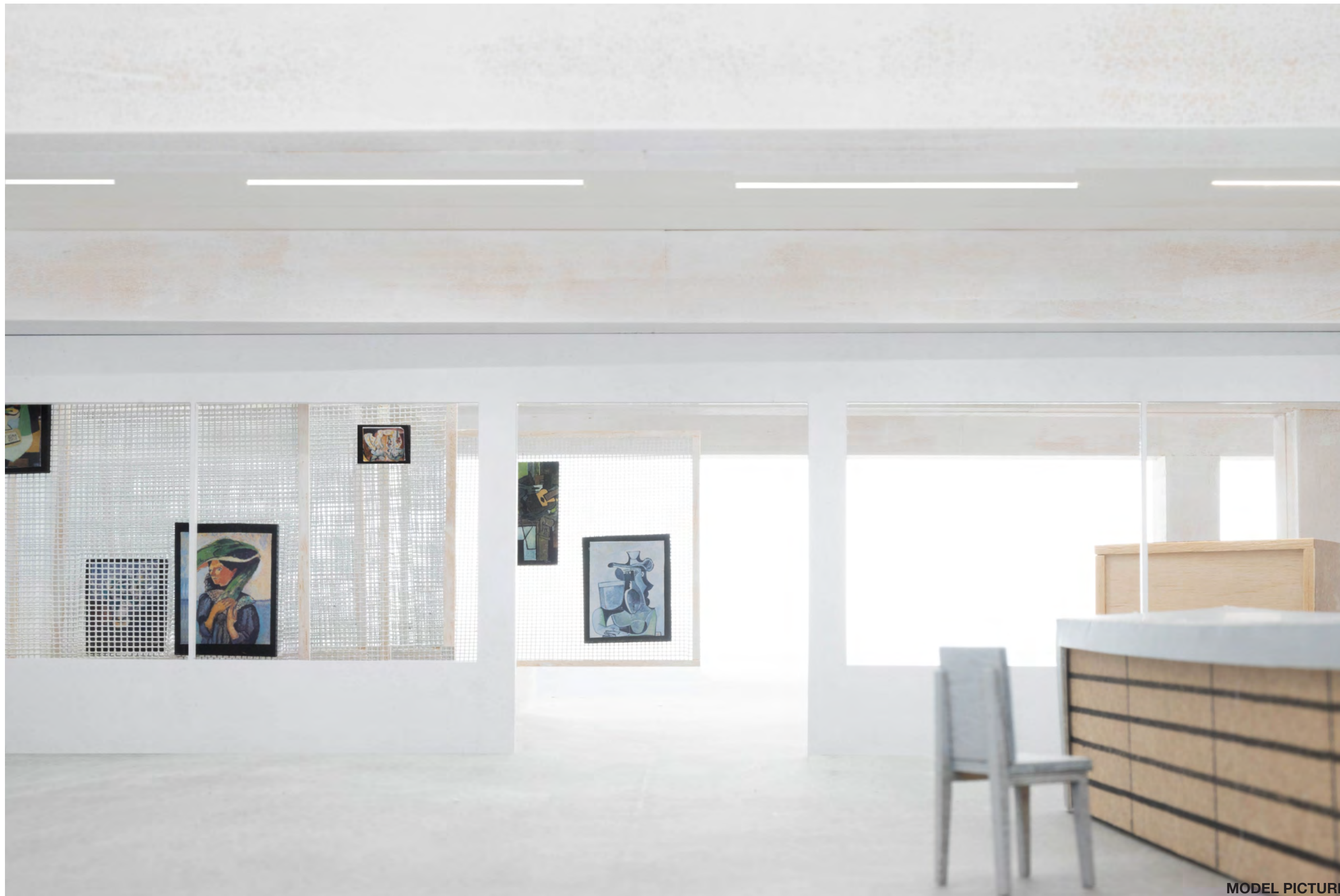
SPACES | 2

- 2.1 STORAGE
- 2.2 EXHIBITION SPACE
- 2.3 OFFICE SPACE



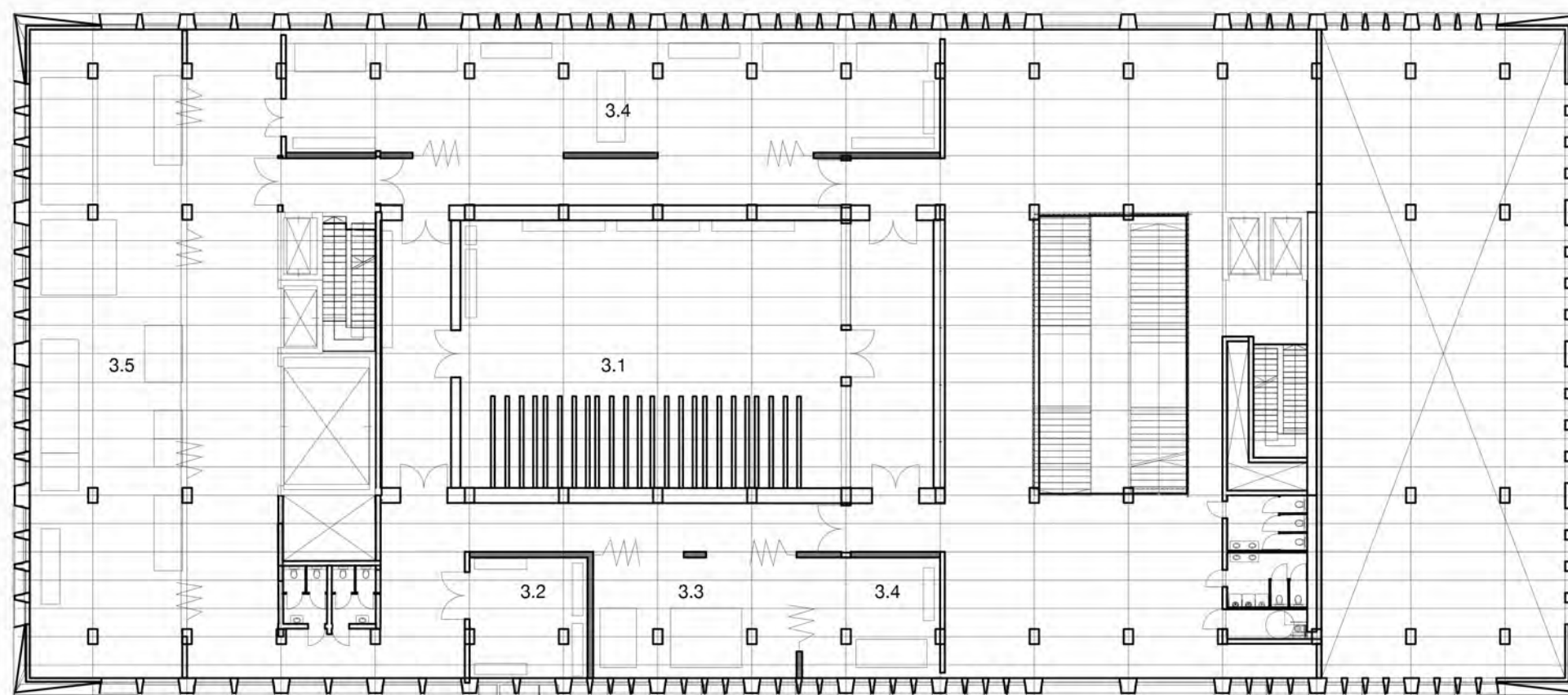
MODEL PICTURE

Interior | Exhibition space | 1:33



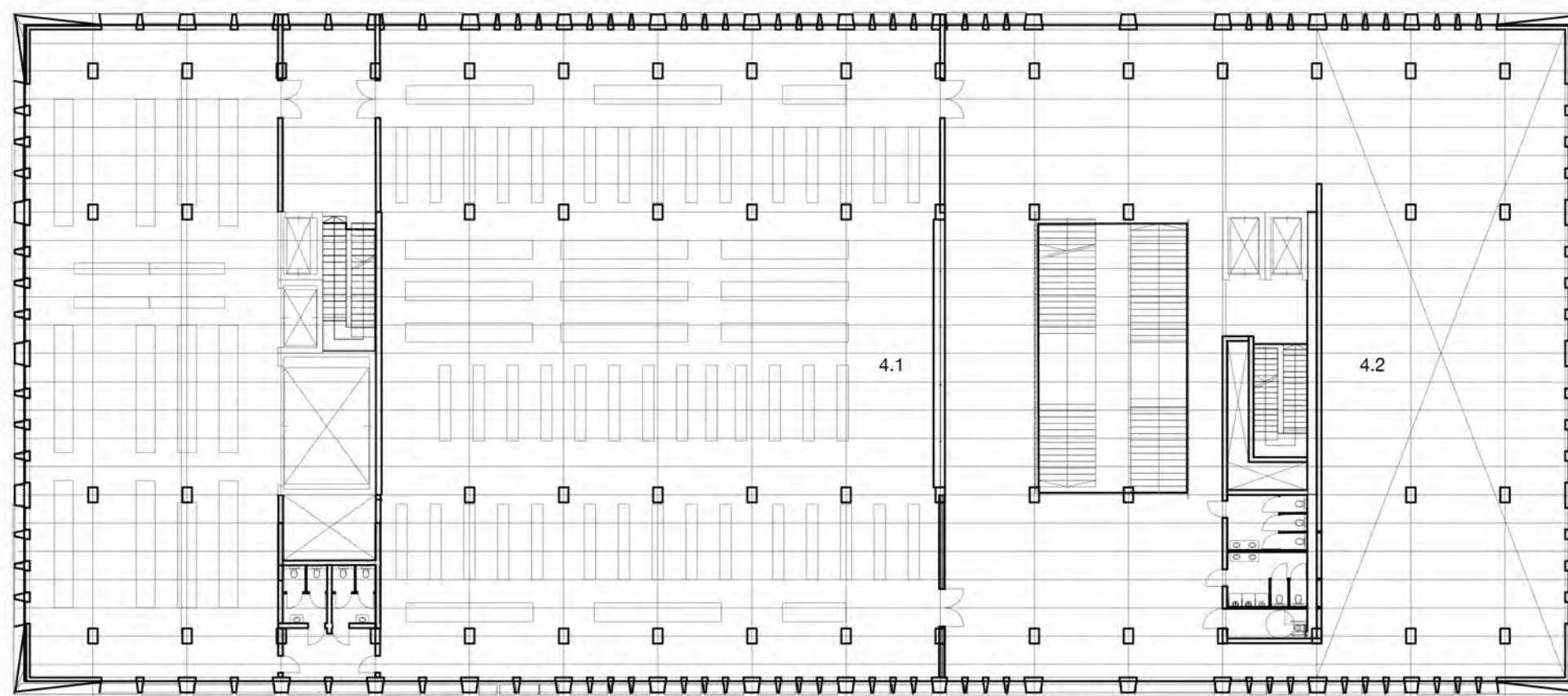
MODEL PICTURE

Interior | In-house depot | 1:33



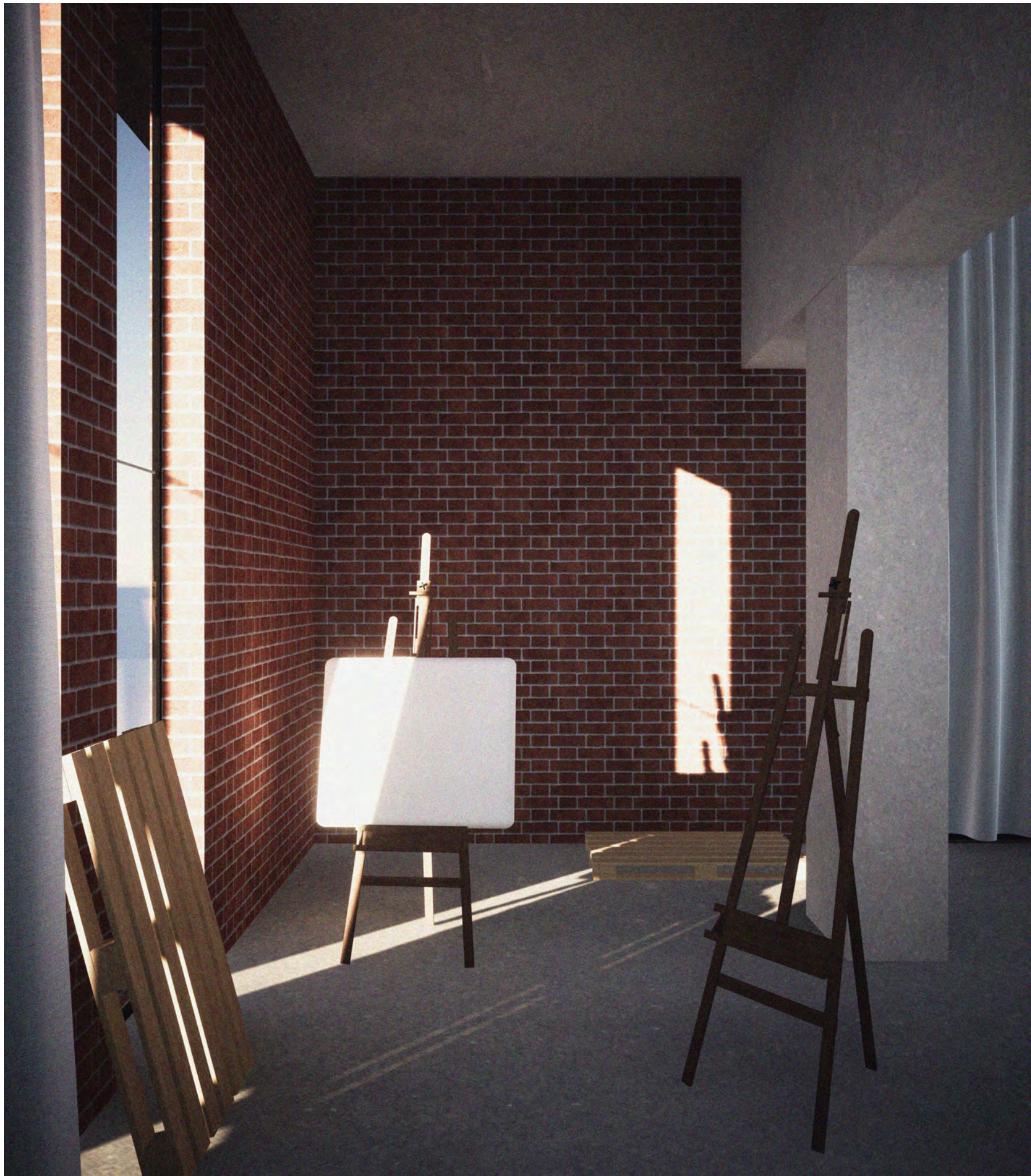
SPACES | 3

- 3.1 STORAGE
 - 3.2 QUARANTINE SPACE
 - 3.3 PHOTOSTUDIO
 - 3.4 ATELIER
 - 3.5 WORKSHOPS
- 54

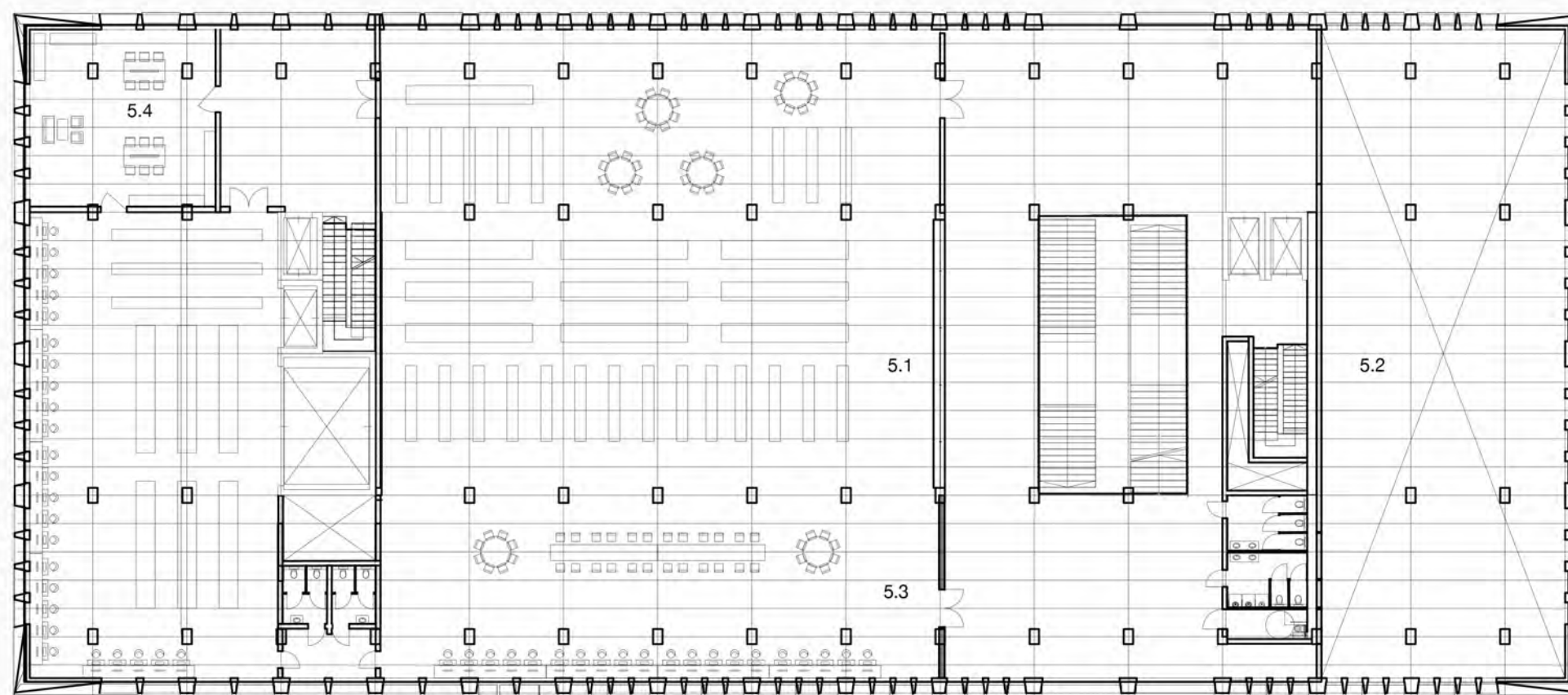


SPACES | 4

4.1 ARCHIVE
4.2 EXHIBITION SPACE





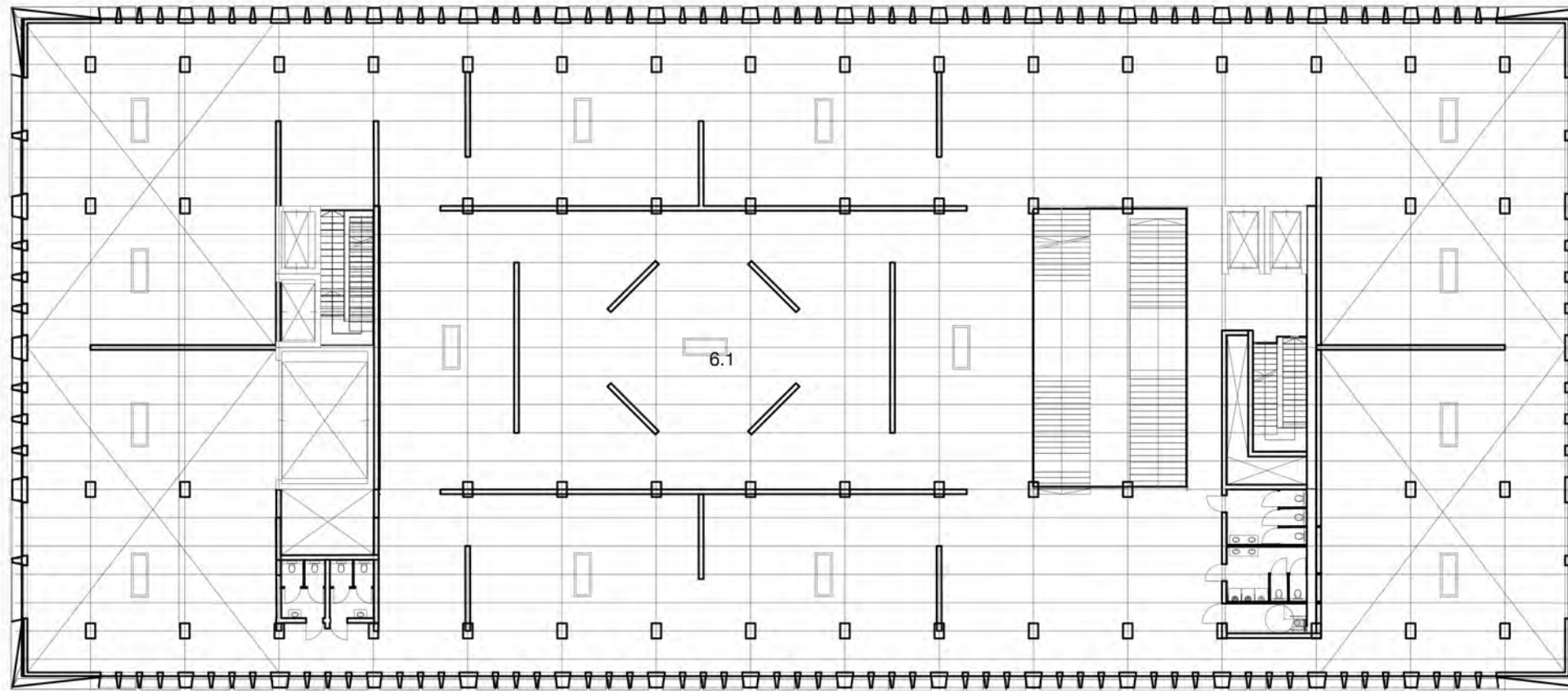


SPACES | 5

5.1 DOCUMENTATION CENTRE

5.2 STUDY ROOM

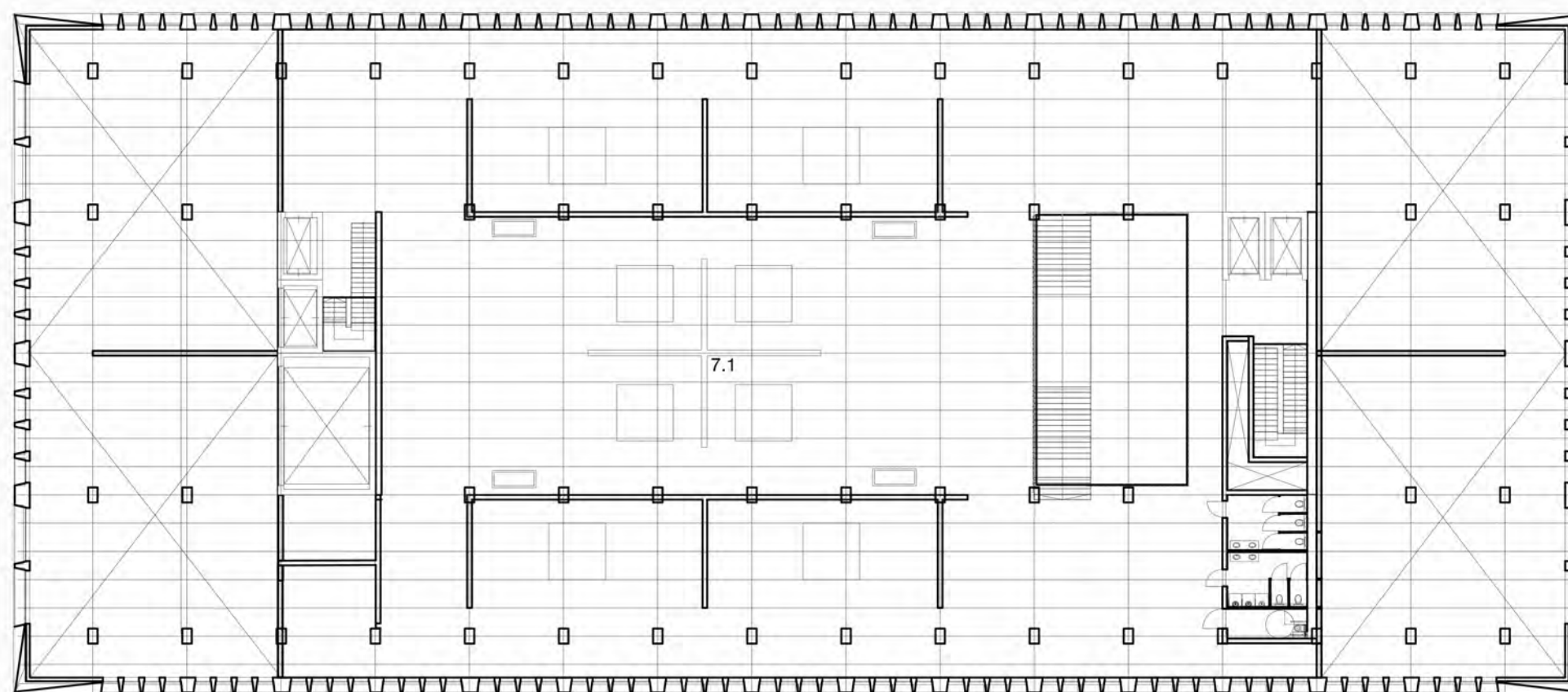
5.3 CONTENT MANAGEMENT





MODEL PICTURE
Interior | Exhibition space | 1:33
60







MODEL PICTURE
Interior | 1:33
64



MODEL PICTURE

Interior | Exhibition space | 1:33
65

