on the threshold of identity

Marcella Heijink | 4968735 | Heritage Transitional Identities
MSc3|4 | Lidy Meijers | Anèt Meijer | Lidwine Spoormans |
TU Delft | 2024-2025

"To design threshold spaces that foster **social interaction and inclusion**, preserving the community function of the Bowling in a **gentrifying, homogene and less inclusive** future context"

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De Bowling

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Content

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Buikslotermeerplein

Flow

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Heritage

Qualities

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Urban scale threshold

The ground floor -
smaller scale thresholds

Floorplans
Flexibility and key elements

Thresholds in materiality
& detail

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& detail

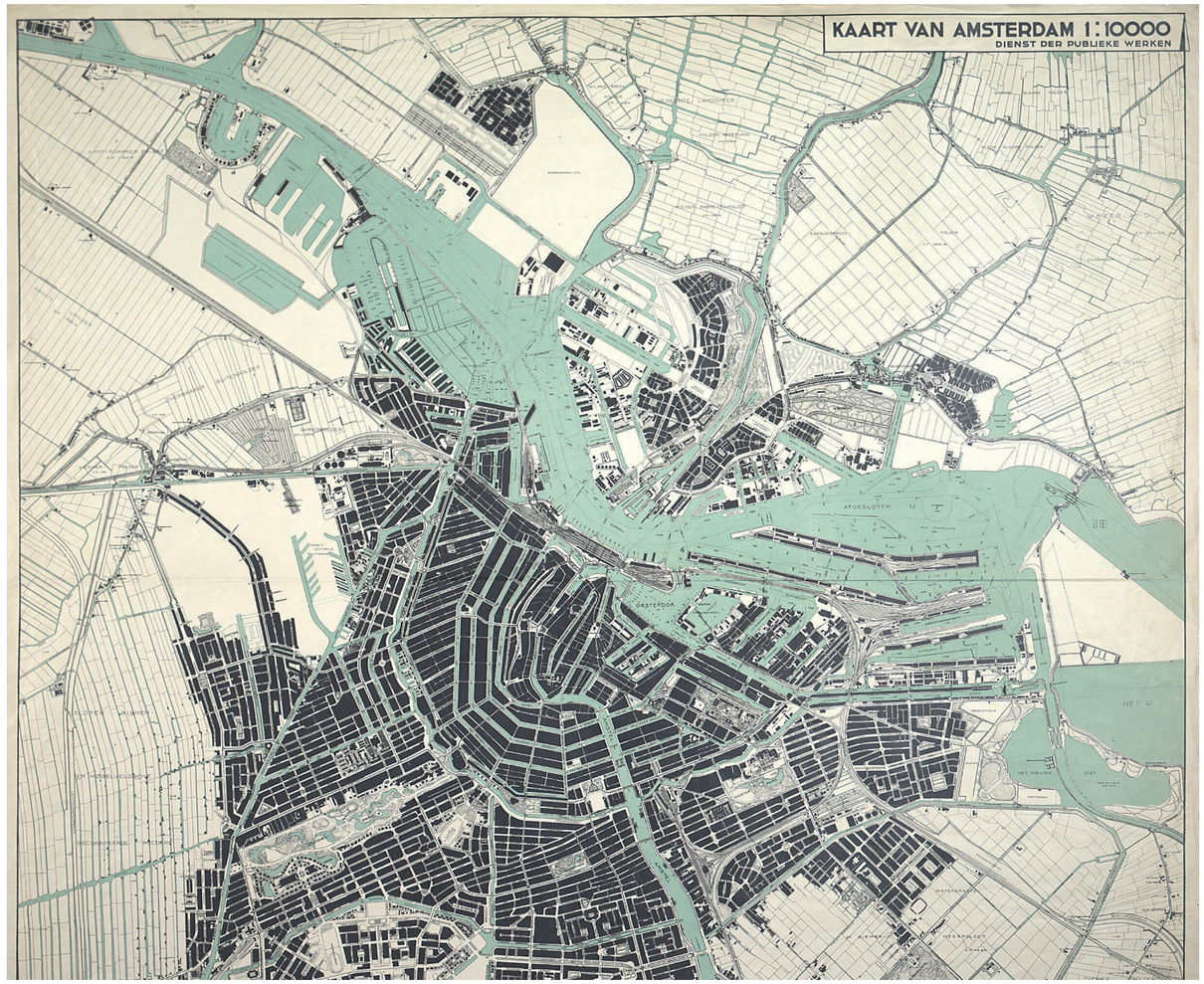
5. retrospective

Ownership and
inclusiveness

1. Introduction

Amsterdam, 1945

Amsterdam in an urban scale jump, 1945, stadsarchief Amsterdam



Amsterdam, 1945

Map from Amsterdam, ca 1945, Stadsarchief Amsterdam

NDSM-werf, 1968

Aerial Photograph, August 1968. The NDSM-werf with the football fields in the background. Image beeldbank Historisch Centrum Amsterdam-Noord

NDSM-werf, 2023

Aerial Photograph recent developments NDSM-werf, photo by Berlinda van Dam

Buiksloot, 1945

Map from Amsterdam, ca 1945, Stadsarchief Amsterdam, Stok, J.W.M. van der

Buikslotermeerplein 1967

Aerial photo facing north, with the Plan van Gool development in the center, the Kleine Wereld at the very top, and in between Buikslotermeerplein, Stadsarchief Amsterdam.

Buikslotermeerplein 1981

photo's of the development of Buikslotermeerplein, 1983, Stadsarchief Amsterdam.

Buikslotermeerplein 1981

"De Markt" at Buikslotermeerplein, 1981, Stadsarchief Amsterdam

Buikslotermeerplein, 2019

"Amsterdam werkt aan nieuwe plannen buikslotermeer-plein", Architectenweb, A. nieuwenhuis, Gemeente Amster-dam

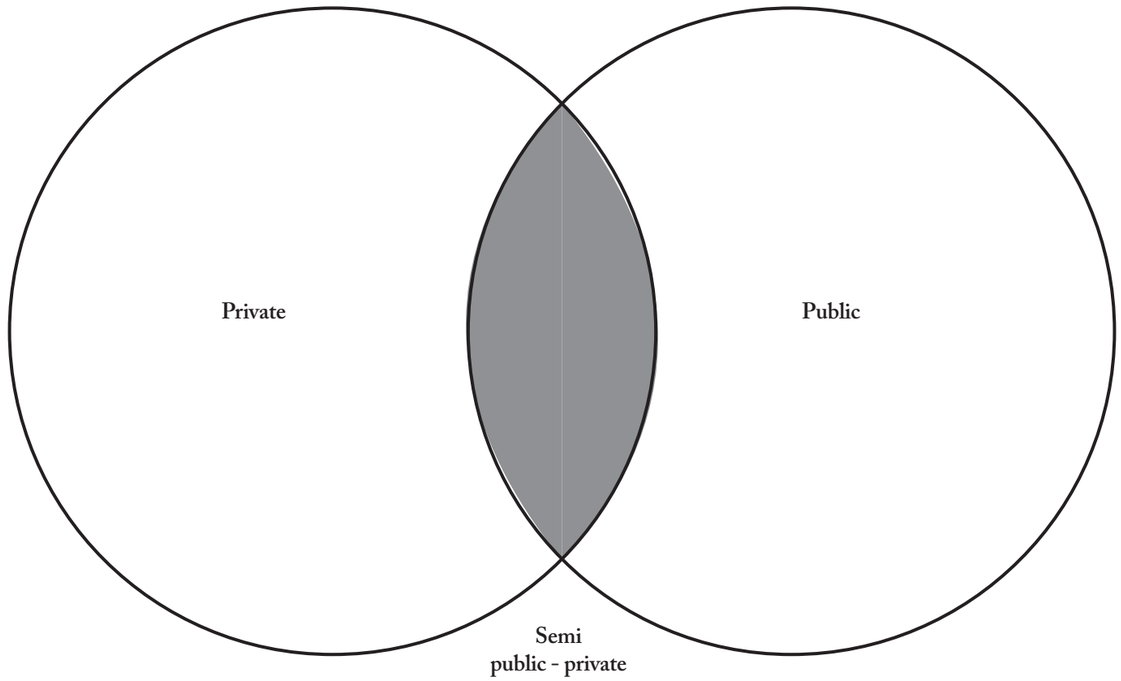
New developments Buikslotermeerplein
Site model by MORE Architecten, 2024, Architectenweb

De Bowling, 2023

'Troosteloos' Buikslotermeerplein ondergaat gigantische metamorfose: niet alleen meer voor oude Noorderlingen",
H. Stöve, Het Parool, 2023

Bowling nights

Organized bowling evenings for the elderly and disabled, hosted by the owner of the bowling alley. Photos by the last owner of the bowling, 2014

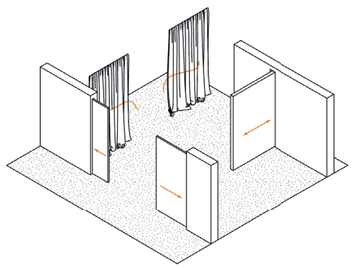


Semi
public - private

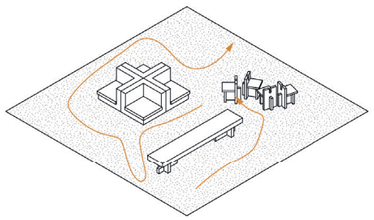
“How can architectural threshold spaces be used to maintain the social function of the Bowling at Buikslotermeerplein, while counterbalancing the possible effects of gentrification”

2. research & site

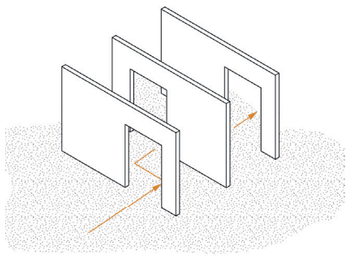
The elements



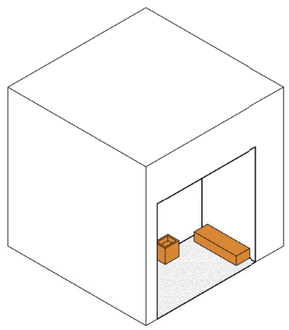
Flexibel elements



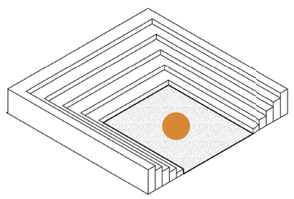
Responsive elements



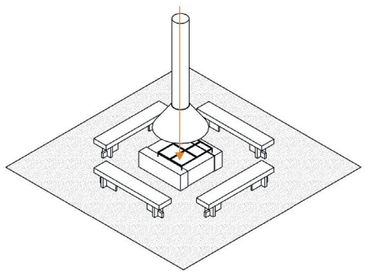
Discontinuity



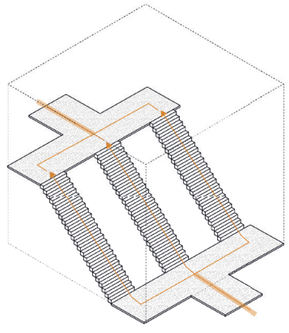
The niche



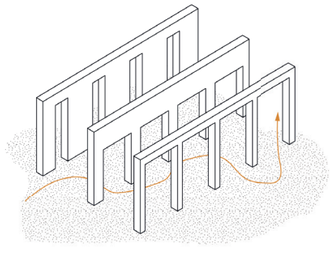
The stage



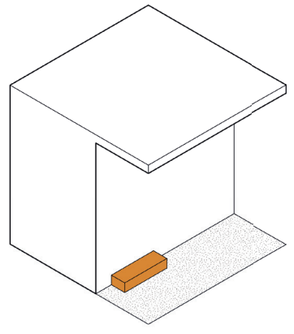
Anchor elements



Non hierarchy routes



The liminal space



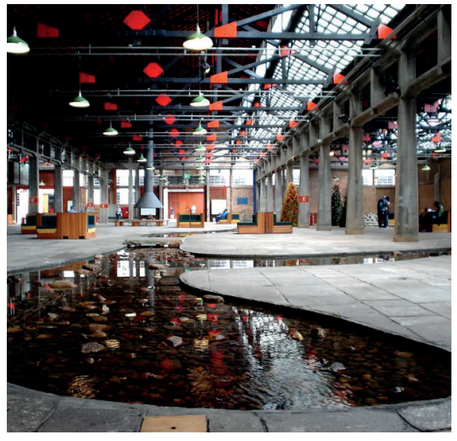
The canopy

Zones

Patterns

Collective memory

1. Performing Arts Centre, 2022 by OMA, Taipei, Taiwan. (Urban scale)

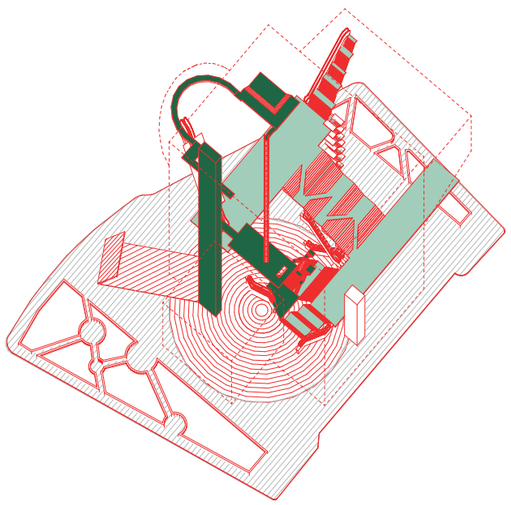


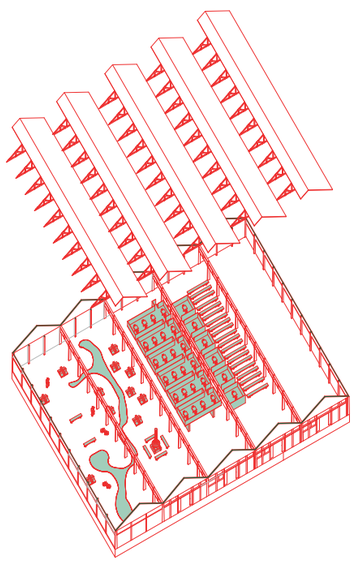
2. SESC Pompeia by Lina Bo Bardi, 1986, Sao Paulo, Brazil (Building scale)

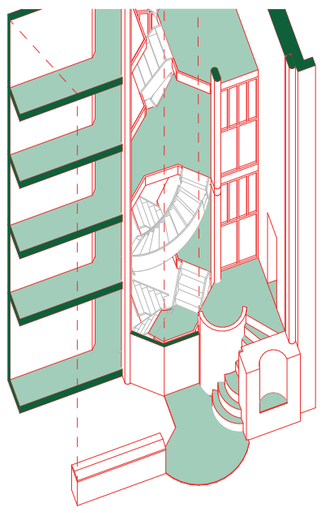
3. Het Moederhuis by Aldo van Eyck, 1978, Amsterdam, Netherlands (street entrance scale)

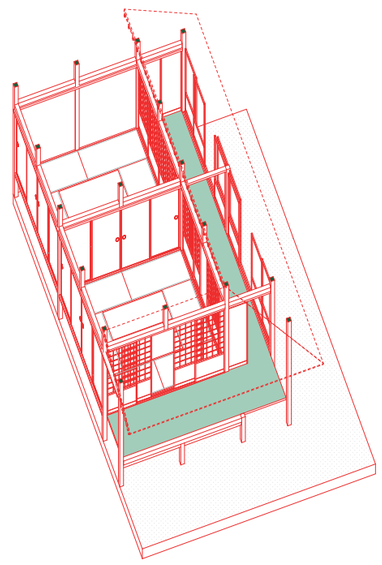
4. Engawa principle - Japan (outside - in scale)

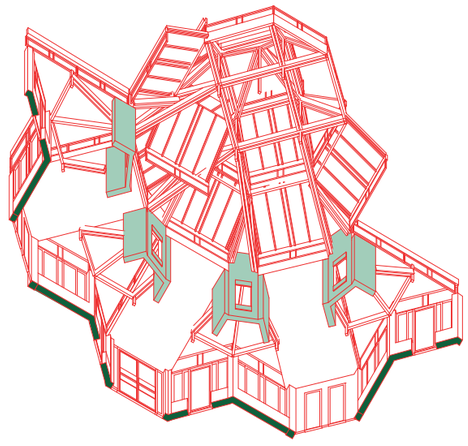
5. De Vuurvogel by Jan Verhoeven 1978, Heumen, Netherlands (interior scale)



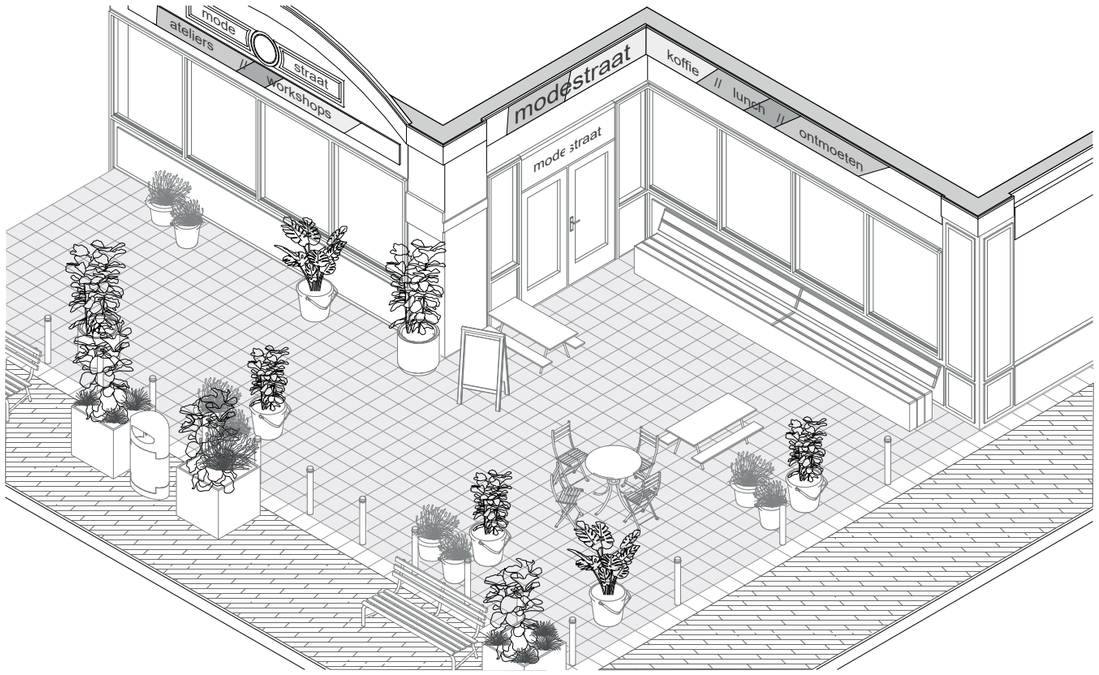


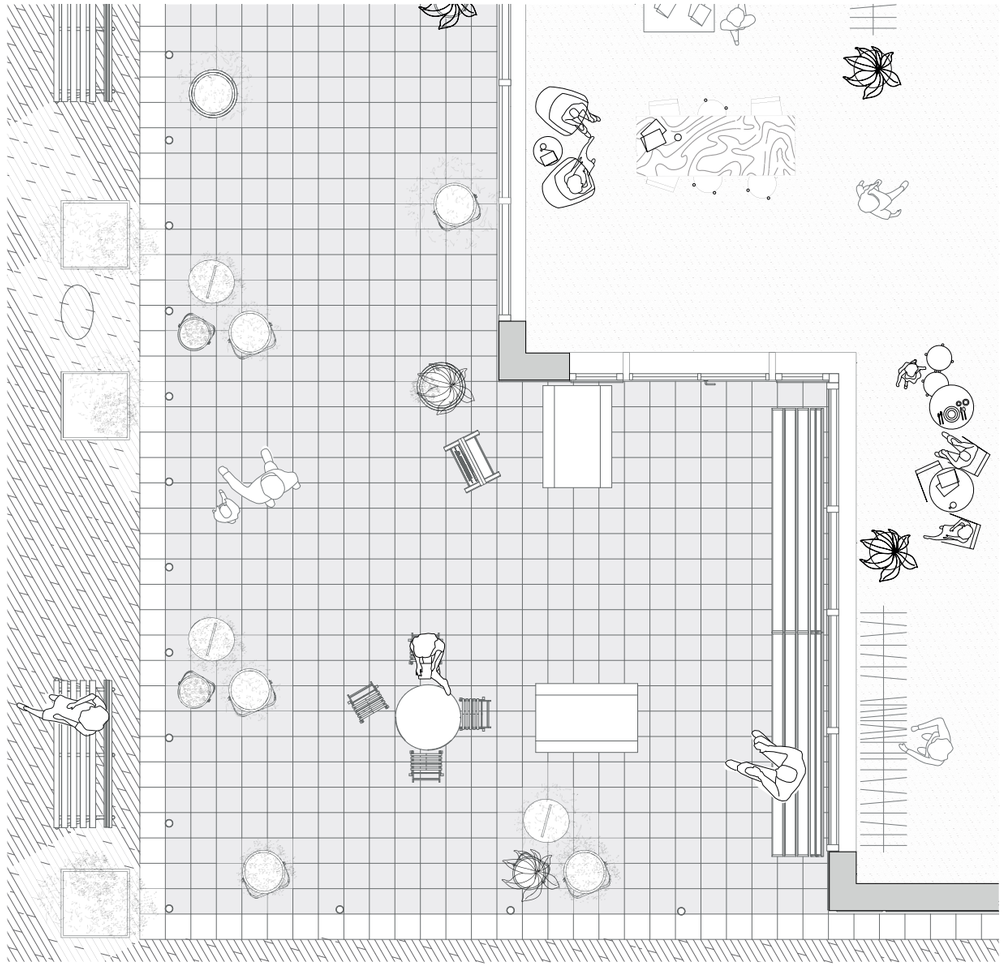


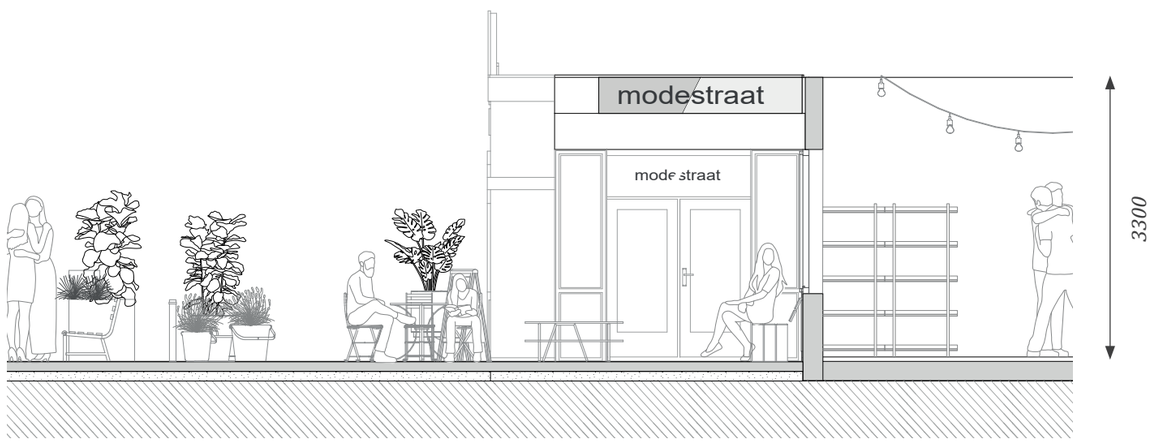




straat
workshops
koffie // lunch // ontmoeten
SPORTCITY
WATCH


mode
ateliers
straat
workshops
modestraat
koffie // lunch // ontmoeten
mode straat





Type treshold: niche

Posistion: entrance

Program: civic centre

Visibility: visible

Light: clear, one shadow part

Material:
tiles 30x30 grey
white tiles 30x30
tiles pattern grey/white
trespa
glass
wood

Amount of floortextures: 3

Zones: 3

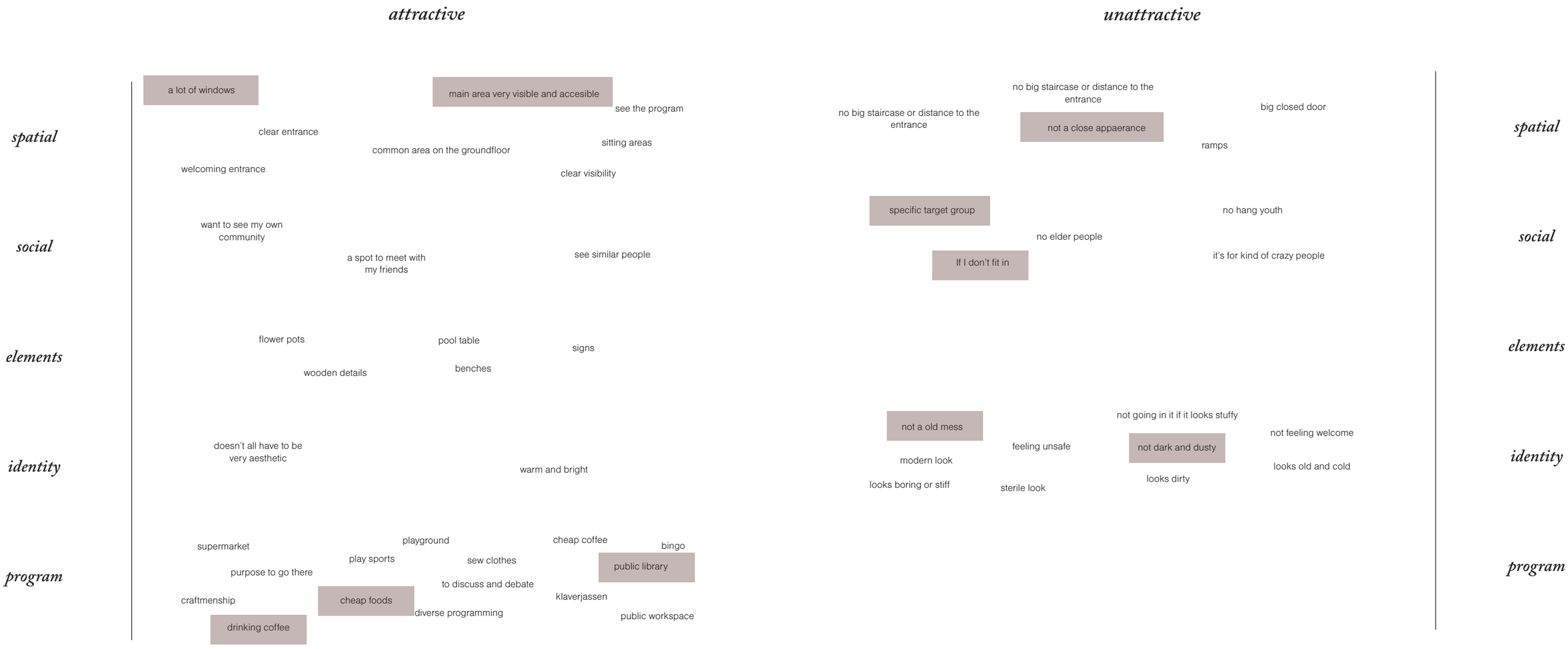
Possible to sit freely: yes

Shelter: no

Elements: 27

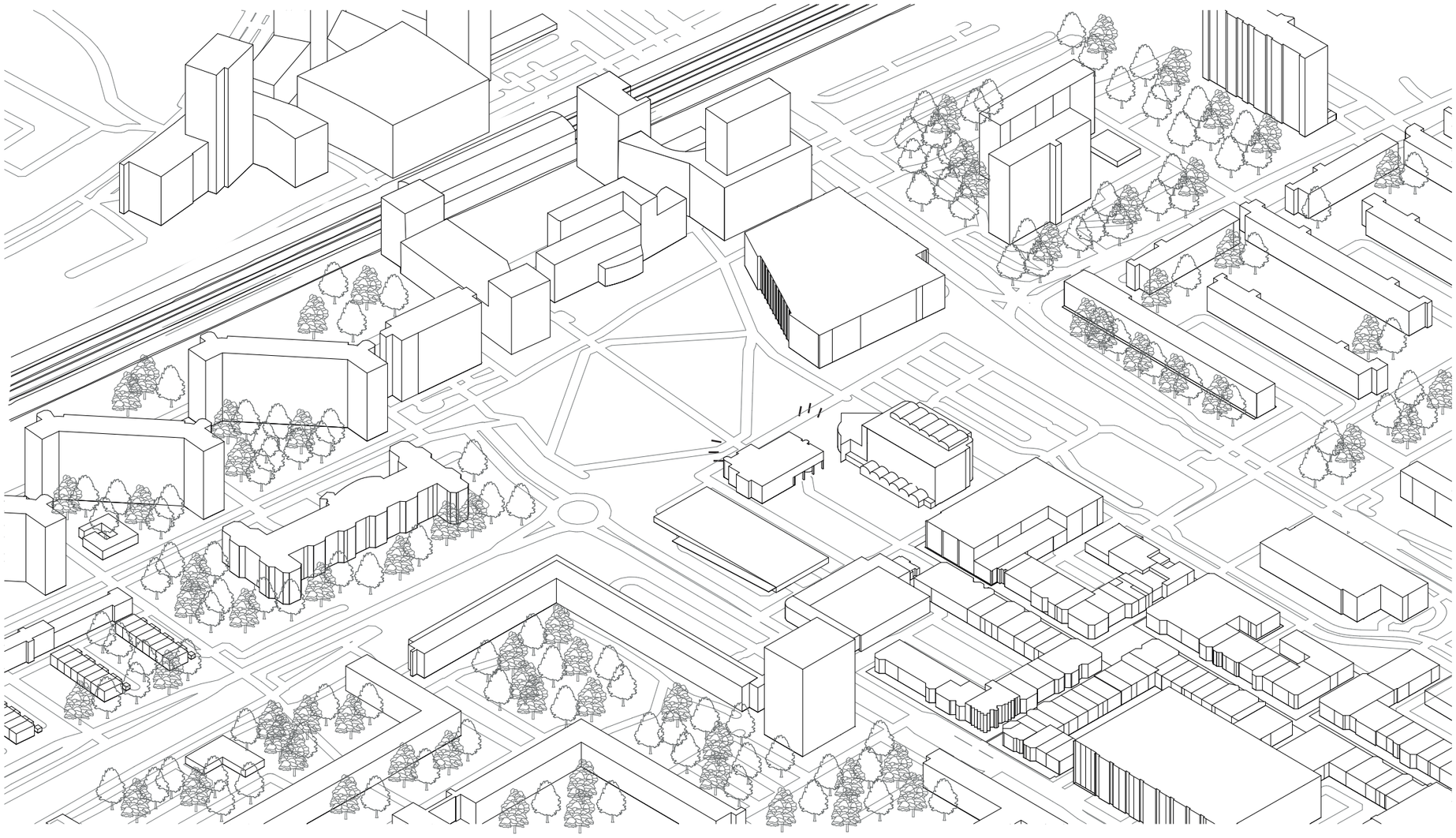
Nooks: yes

*"What would be a **threshold** for you to enter a community center?"*

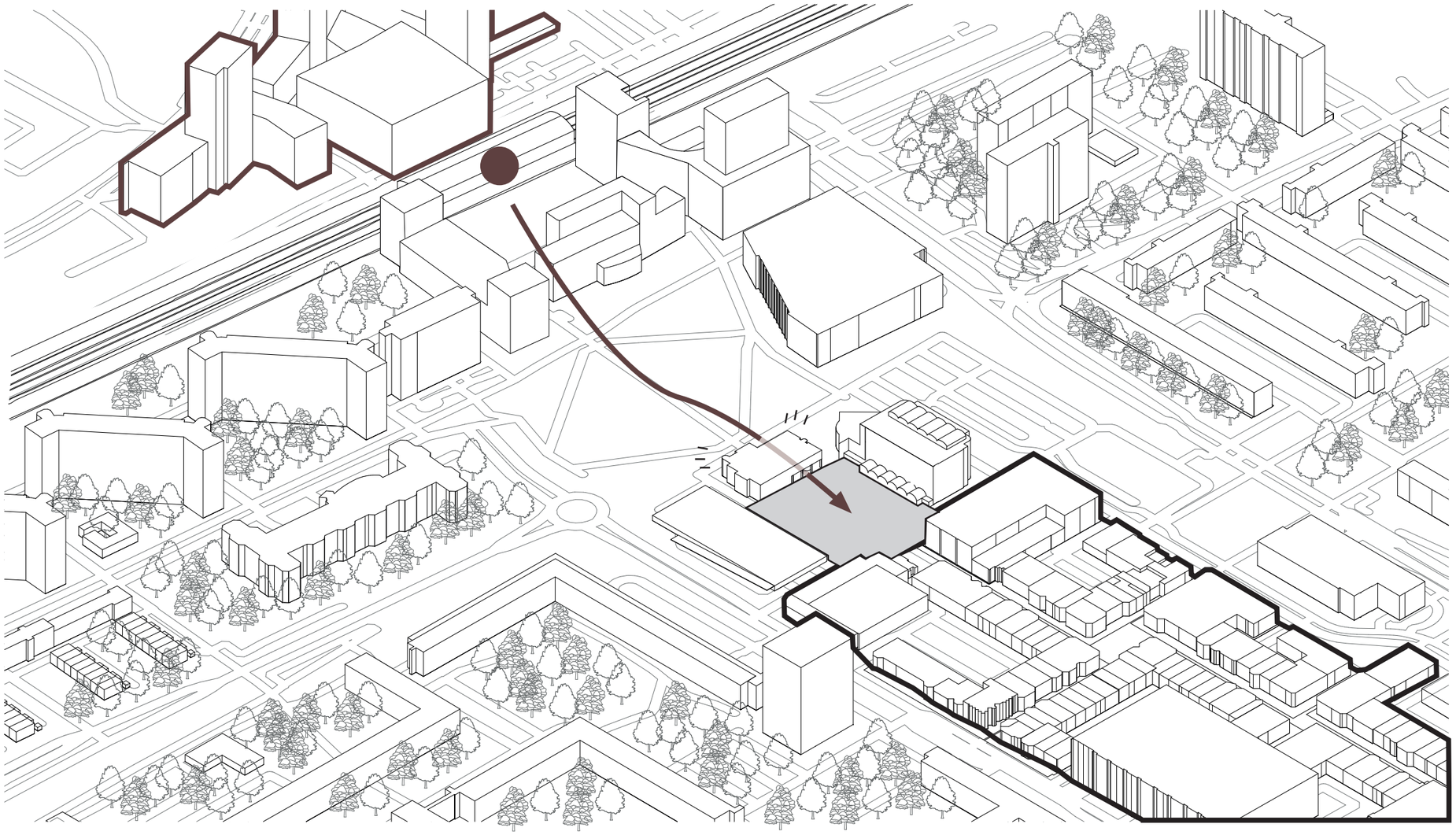


Bowling

a picture of de Bowling at Buikslotermeerplein, photo taken from square perspective by author, february 2025

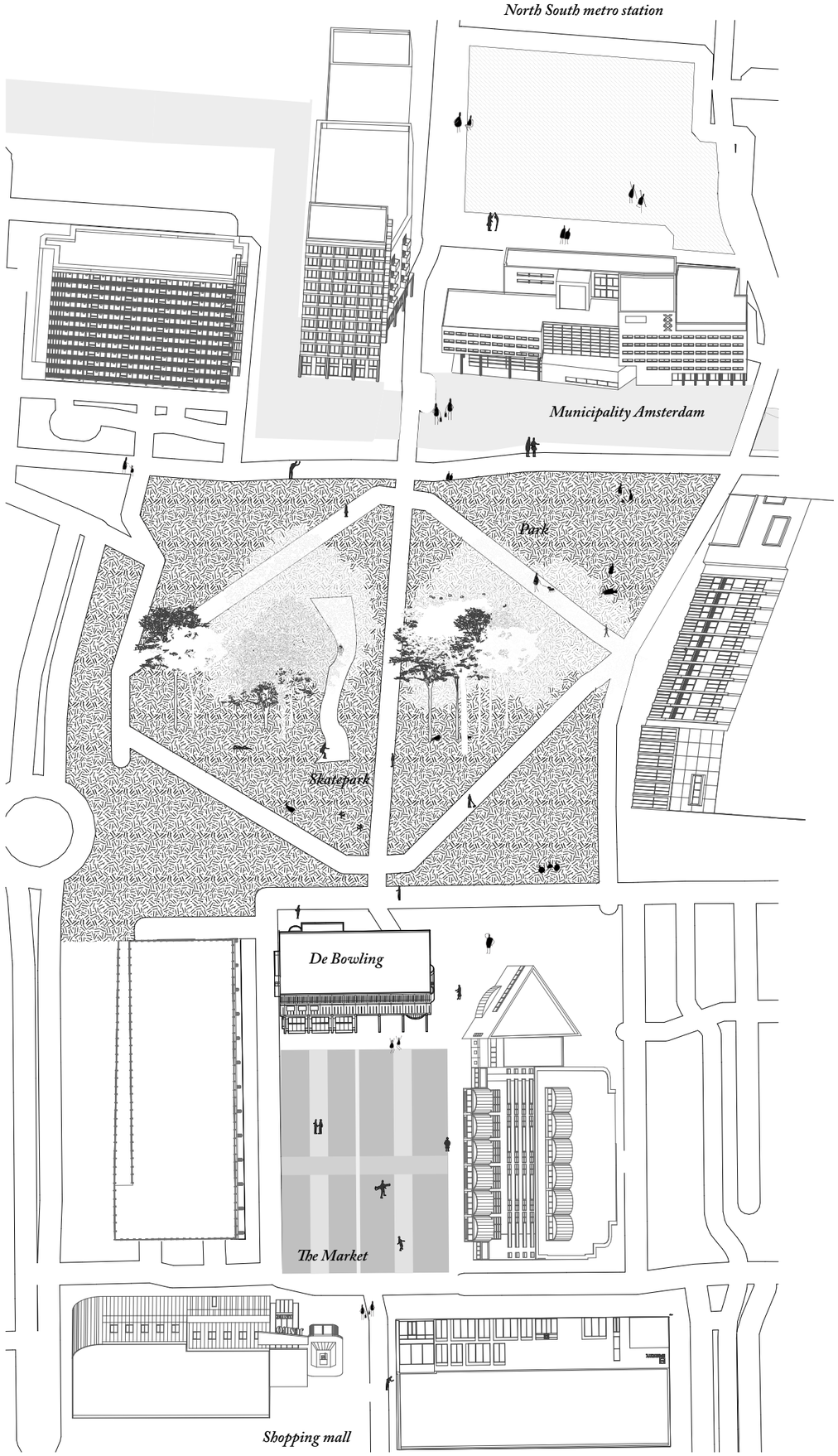


The Bowling in relation to the existing Urban Fabric

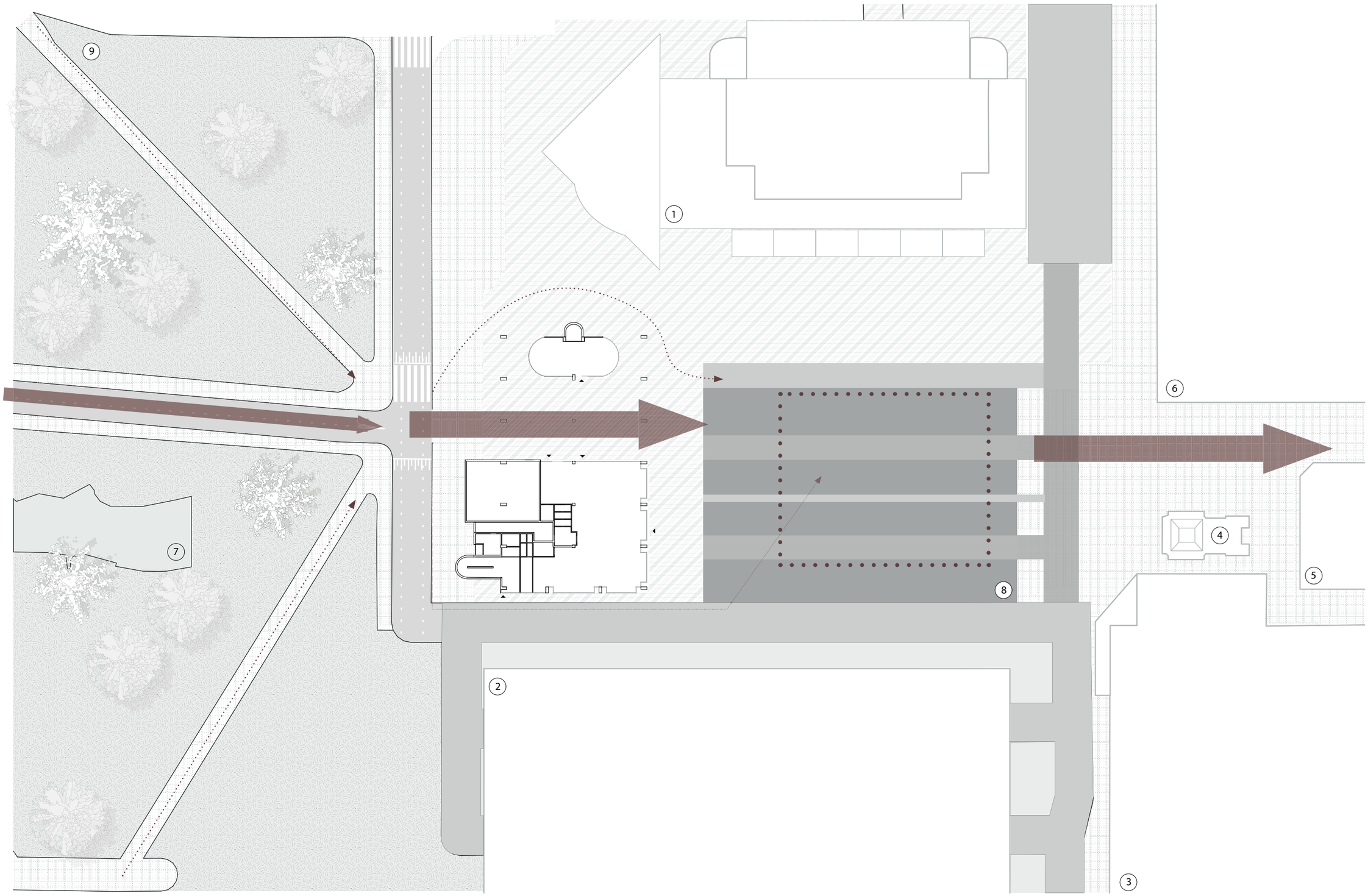


most important flow in existing and also future situation

Sequence

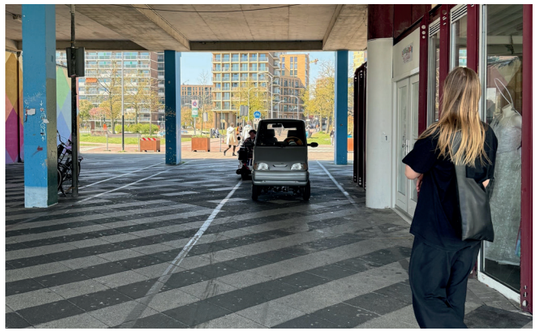

North South metro station
Municipality Amsterdam
Park
Skatepark
De Bowling
The Market
Shopping mall

Existing site plan 1:500 flows



1. ‘t wardeschip
2. parking deck
3. jumbo
4. febo
5. albert heijn
6. lidl
7. skatepark
8. market square
9. park

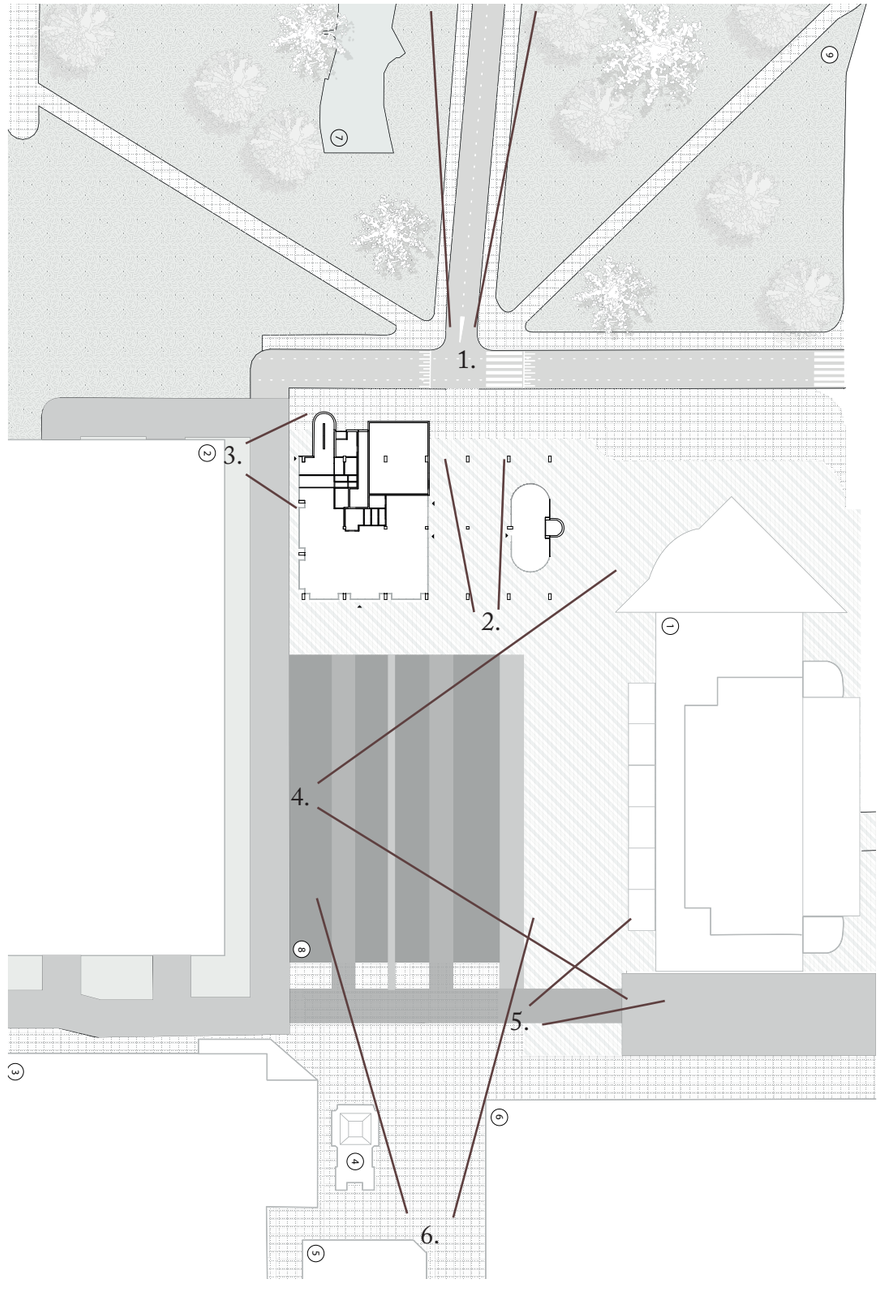
1.



2.

ZONE
OPERA
BOWLING

3.


1.
2.
3.
4.
5.
6.

4.

modestraat
koffie // lunch // ontmoeten
modestraat

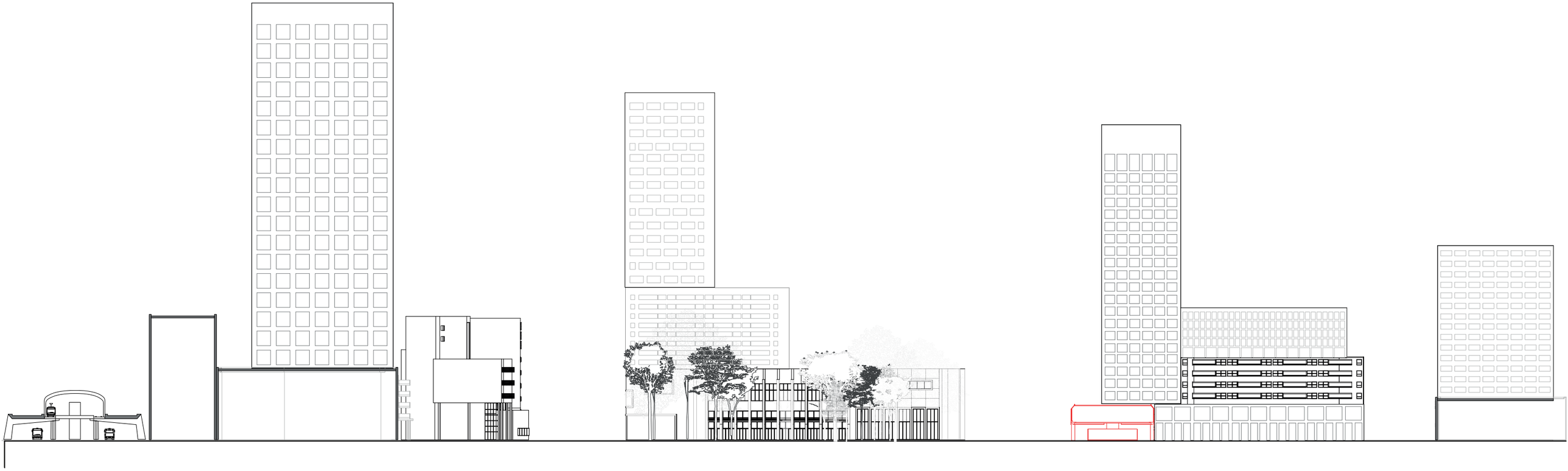
5.

vinevam

6.

Urban sections

existing urban section 1:1000



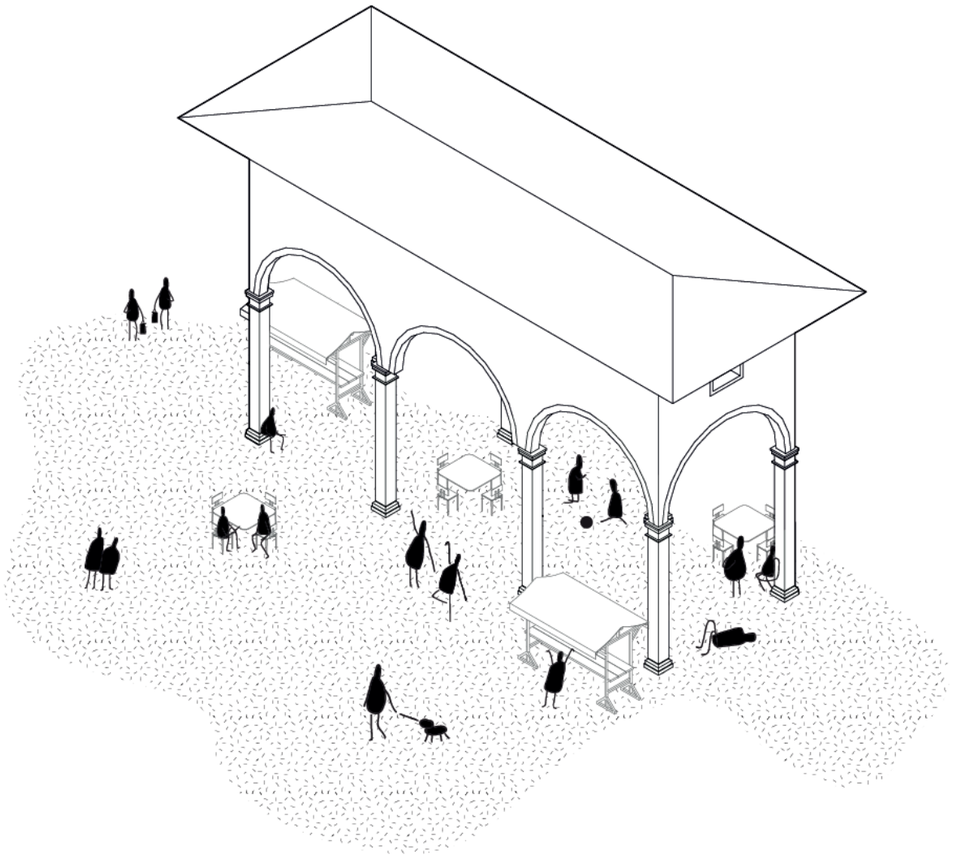
existing urban section future situation 1:1000

3. positioning

Loggia del Pesce

Florence 1569, Giorgio Vasari

Loggia del Pesce
Florence 1569, Giorgio Vasari



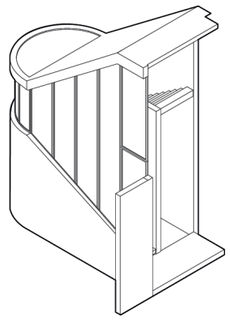
André, the last owner of de Bowling. and his wife. Photo taken from the documentary "De bunker" by Man Bijt Hond, 2013

Bowling nights for the elderly. Photo taken from the documentary "De bunker" by Man Bijt Hond, 2013

De Bowling in 2009
Amsterdam Stadsarchief, 2009

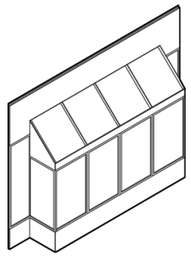
Entrance Bowling

Cement blocks 200mm
brick 110 mm
double glazing
50 mm steel frame window
openings



Plinth facade

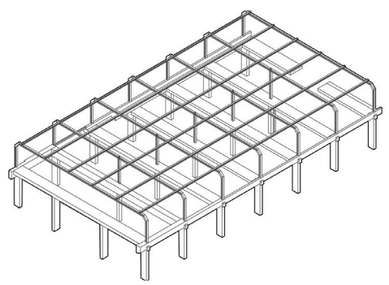
double glazing
50 mm steel frame window
openings

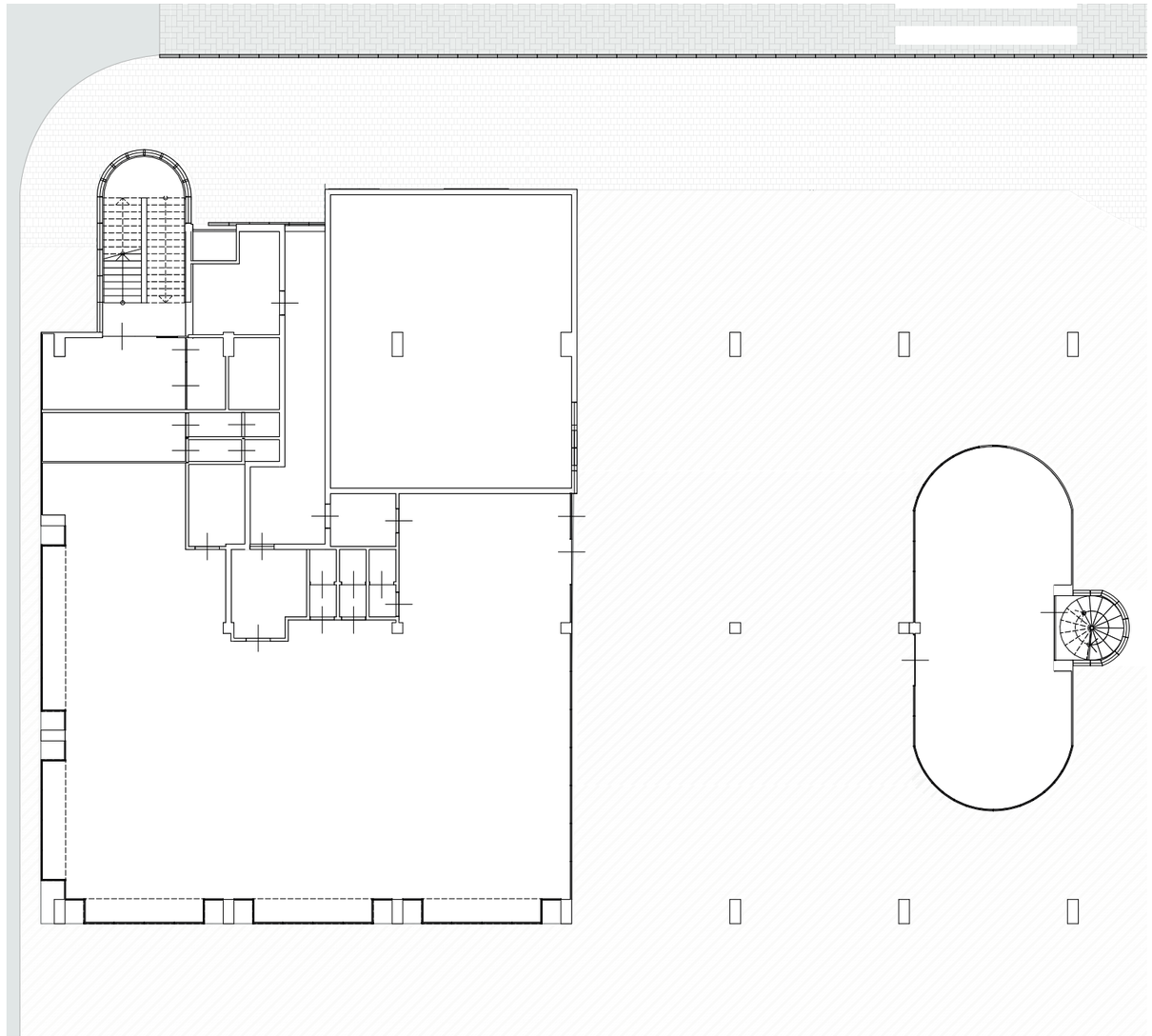


Construction

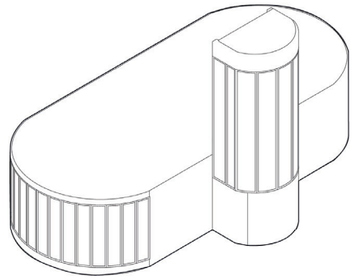
concrete first floor
900x400mm

second floor
HEA 240



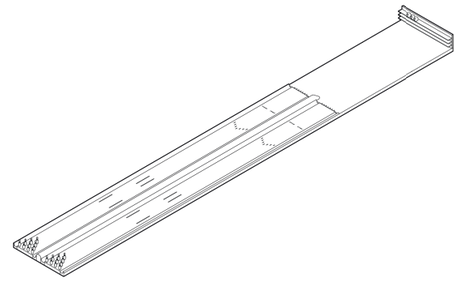


existing floorplan 1:200

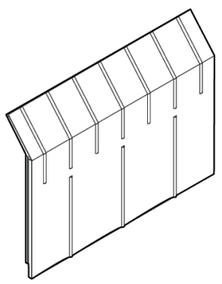


The Kiosk

Cementfiber panels
40mm insulation
double glazing
50 mm steel frame window
openings



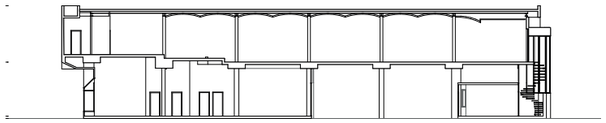
Bowling alley



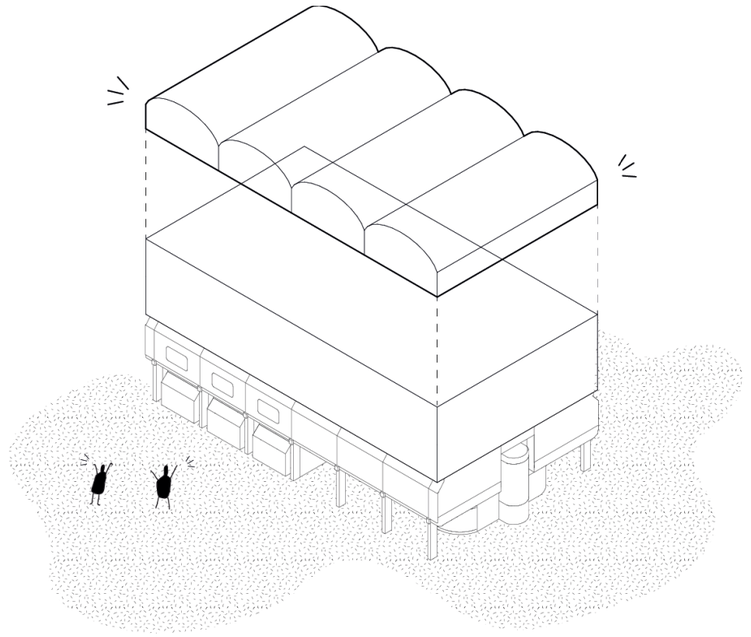
Cement fiber elements

Cementfiber panels
40mm insulation
double glazing
50 mm steel frame window
openings

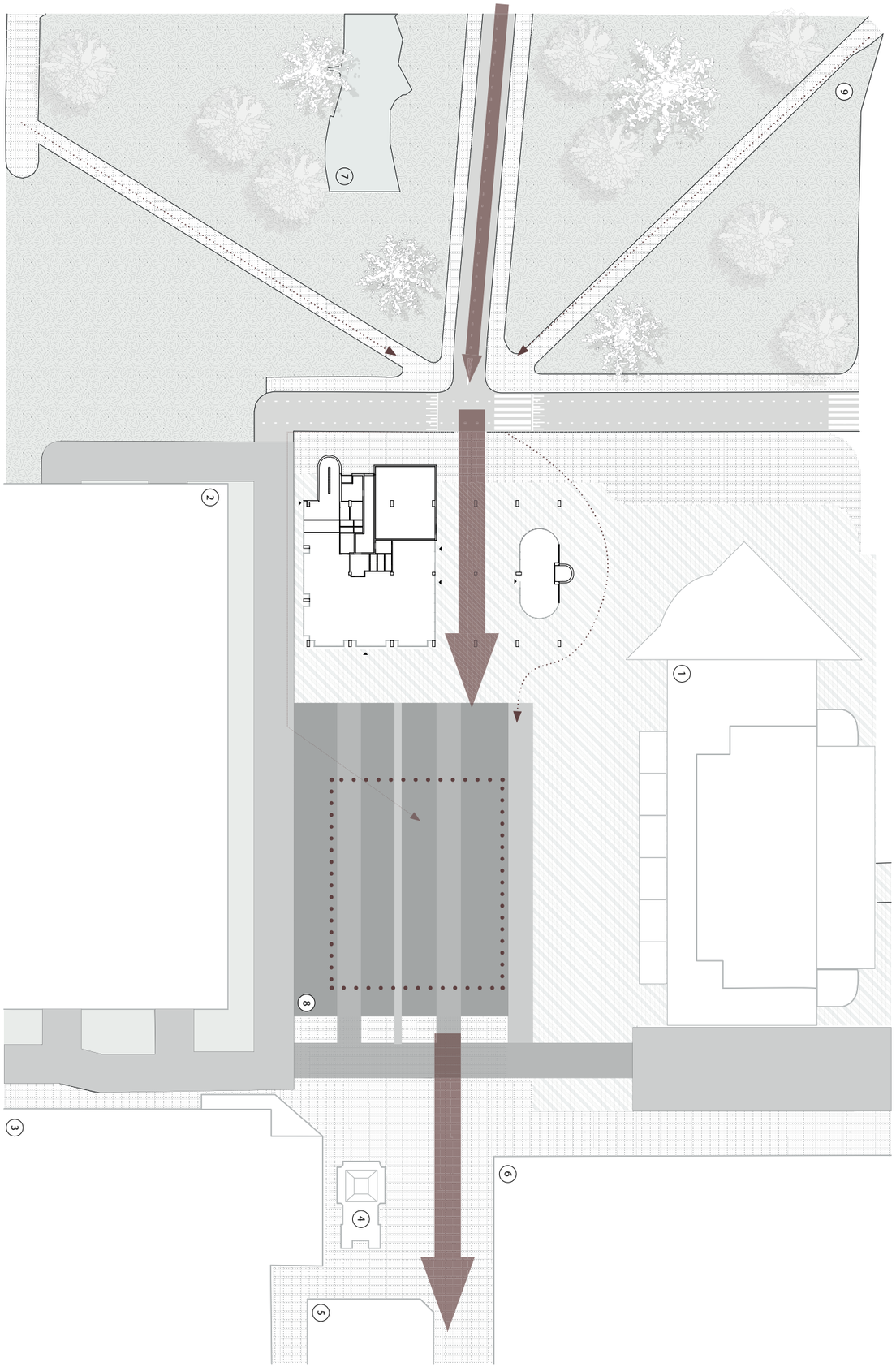
Existing section Bowling

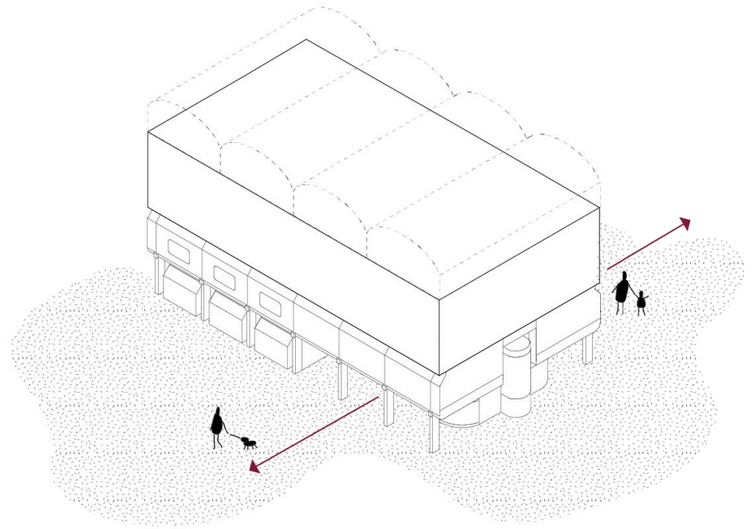


The plinth of "t Wardeschip (Stadsarchief, 2008)



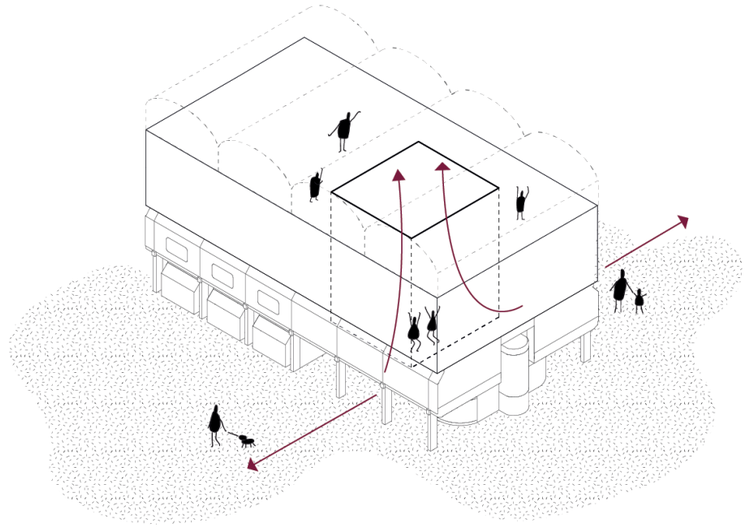
Introducing a visible form language as part of the collective memory



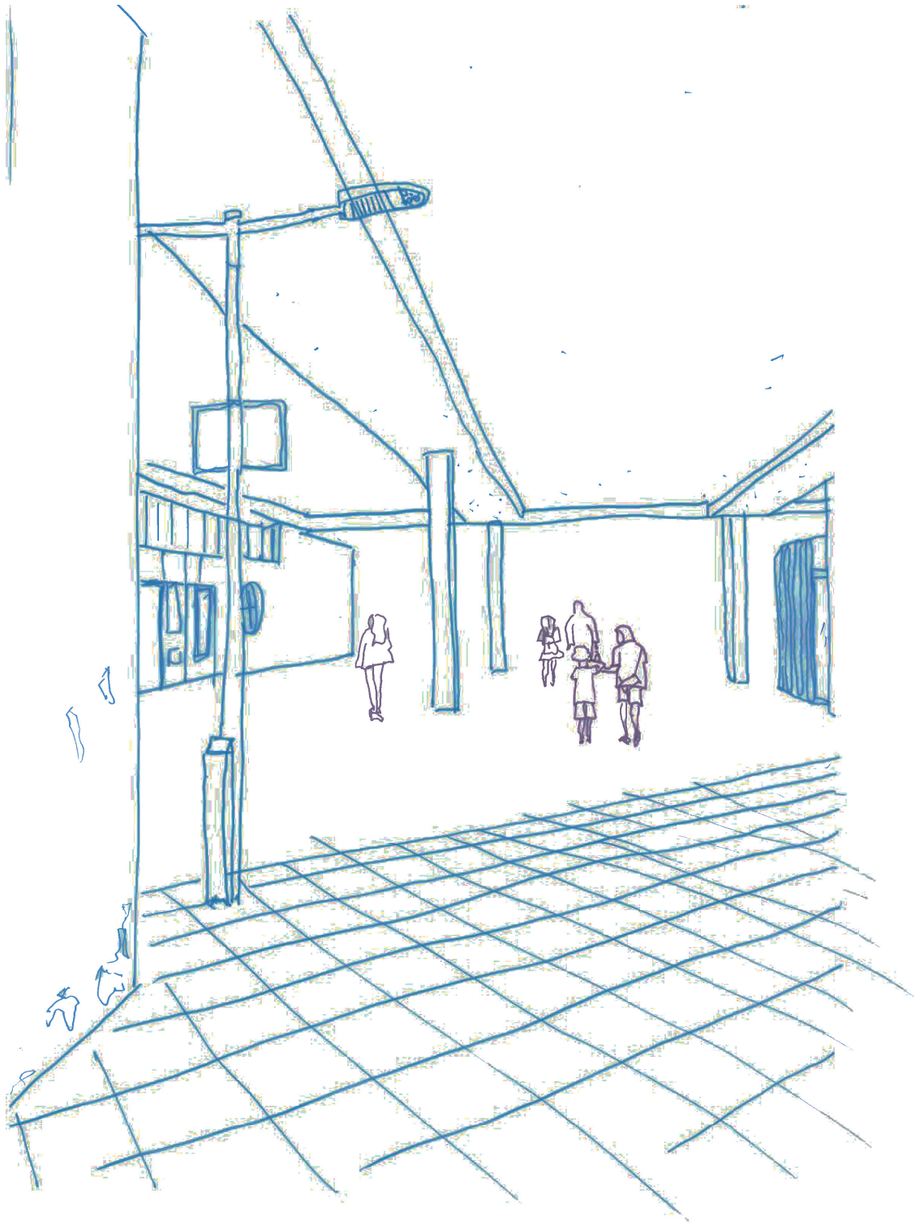


The passage, the strong flow that still will exist in the future plans

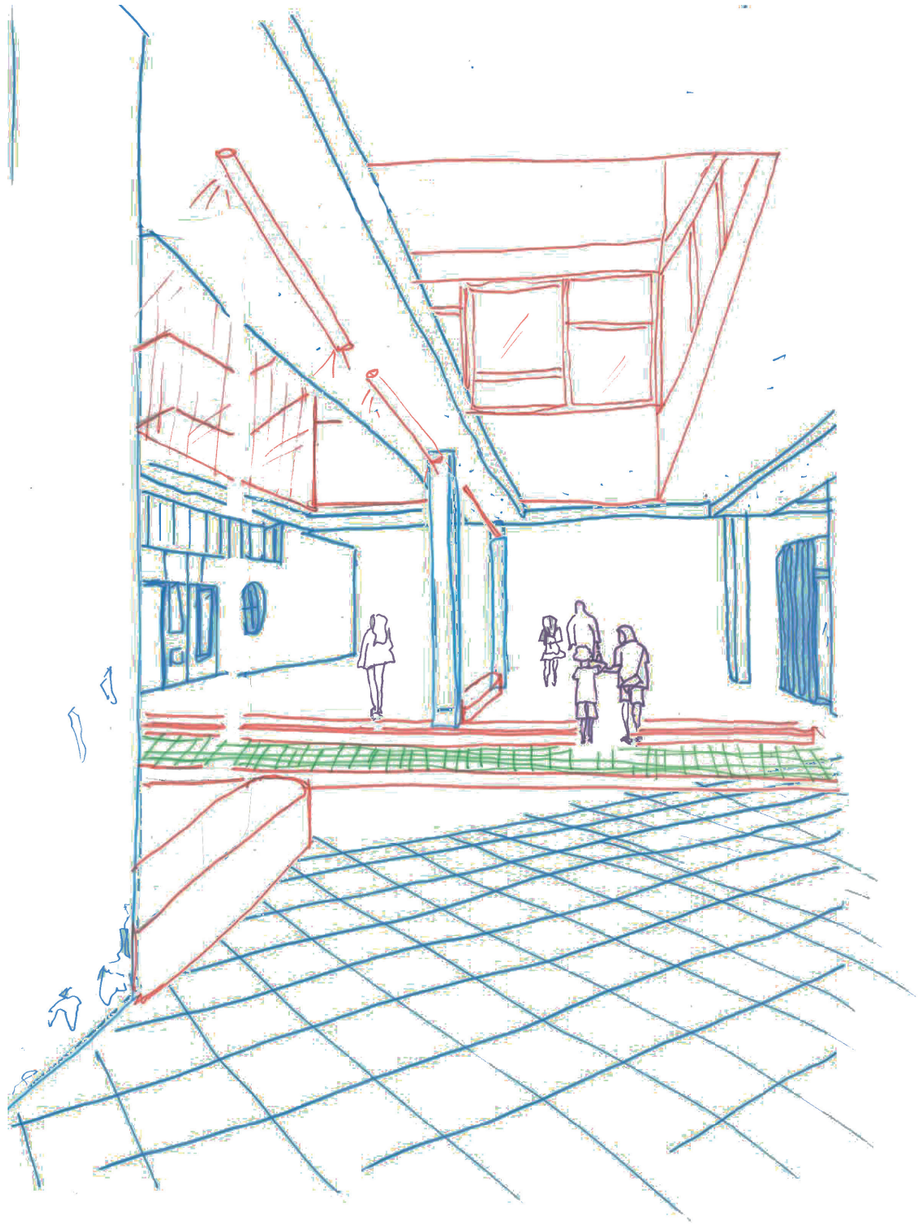
a zoom in on the drawing of stairs by Piranesi, G. B. (1748).



Extending the passage through the building to te roof connected with many stairs and sights



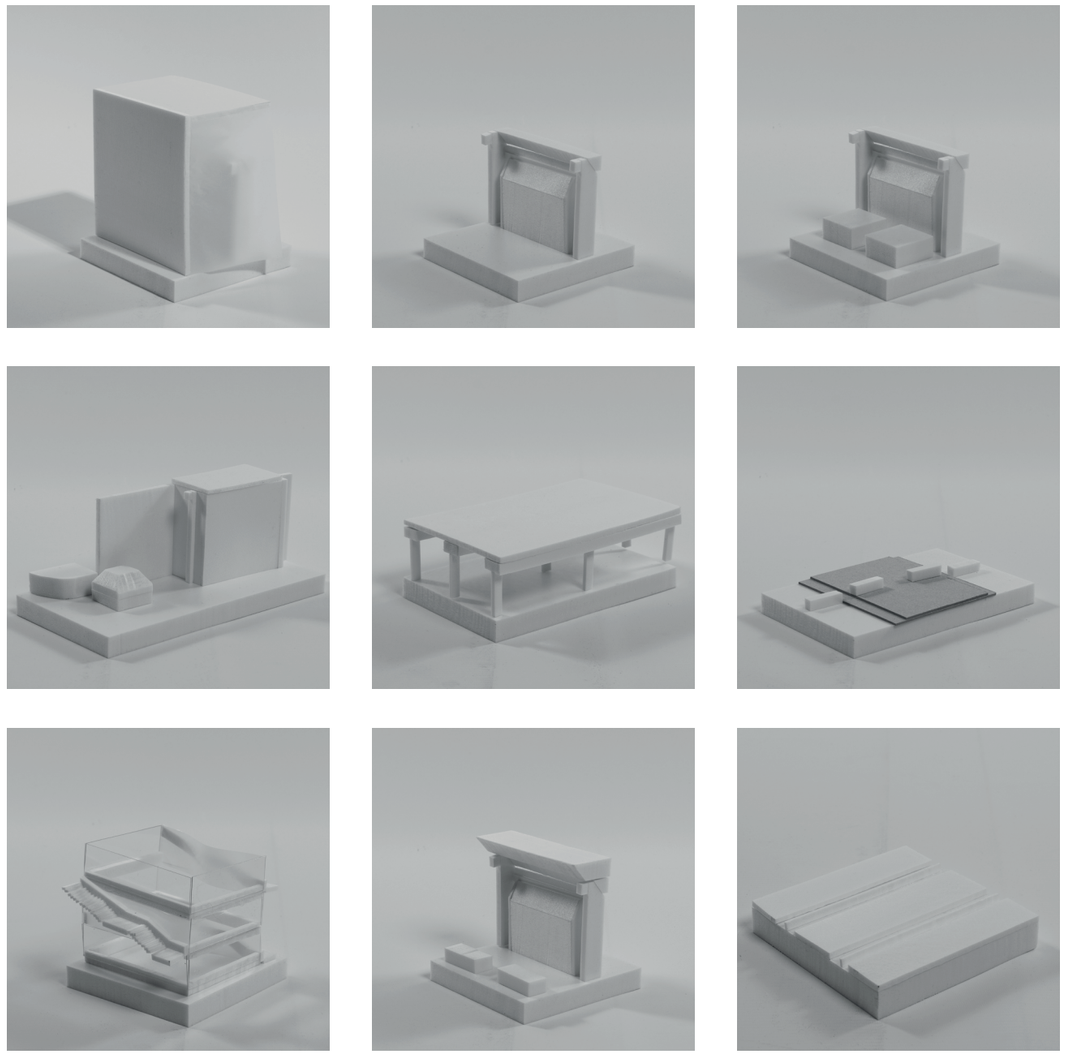
sketch of the existing situation of the passage



new proposed interventions with a big void connected to staircases above the passage
introducing two steps to make people aware of the void above them

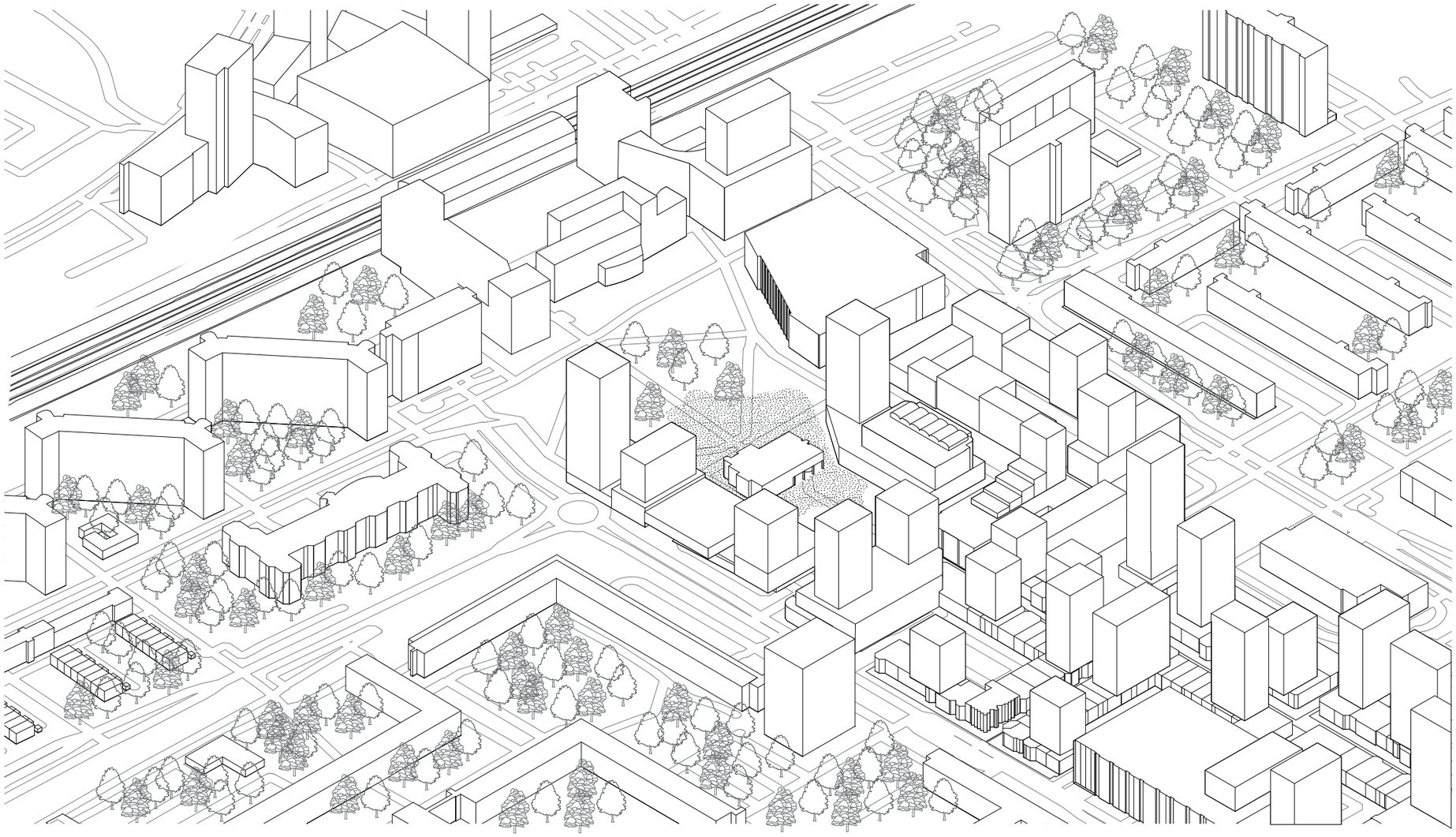
sketch of the existing east facade facing the market square
the bikes and planting pots creating almost a secundary facade

new proposed interventions for the east facade opening up the space and introducing a second zone
and add primary benches adjecent to the market square and secundary benches into the facade

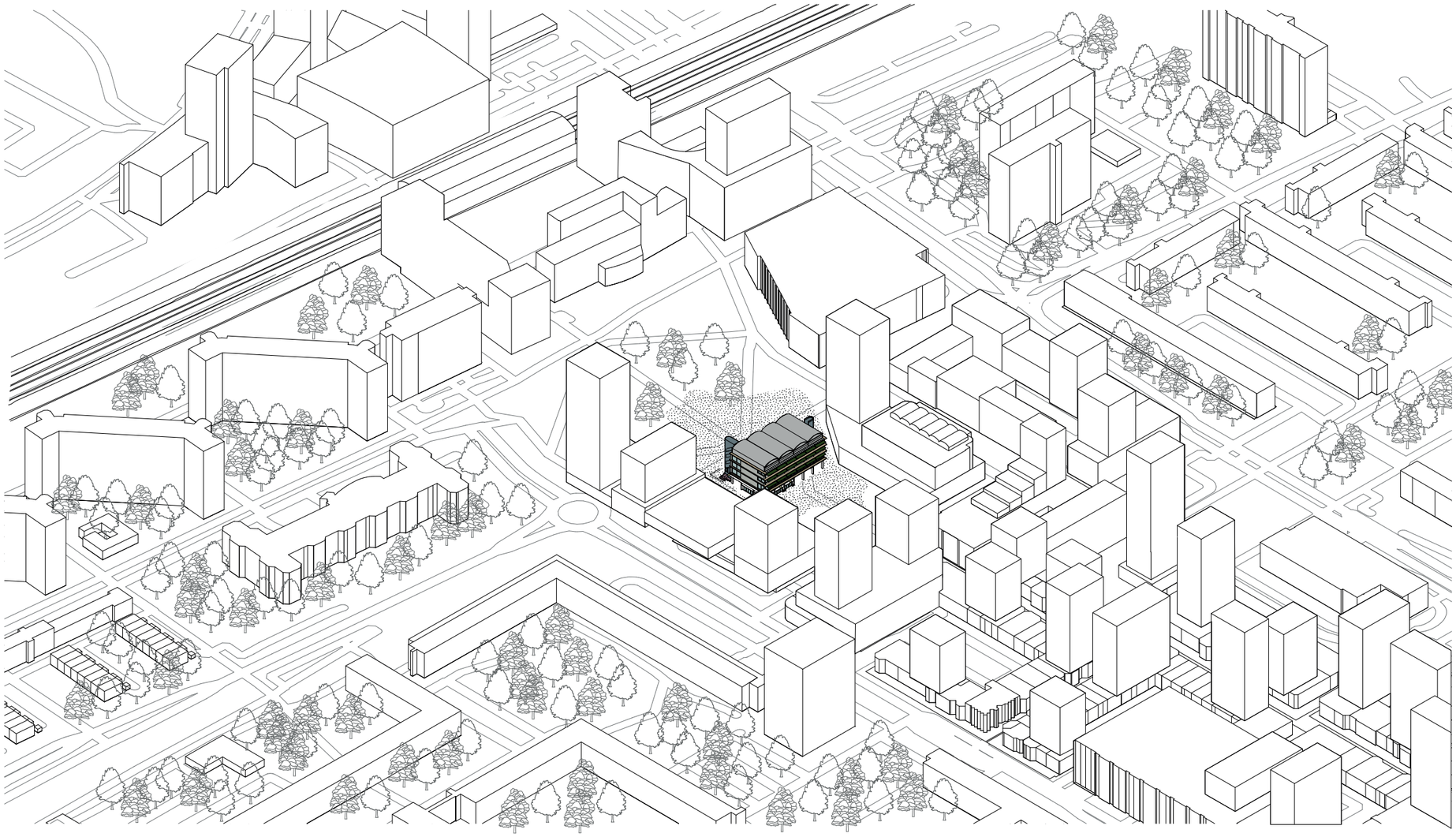


all the threshold elements made in models that can be found in the proposed design

4. Design

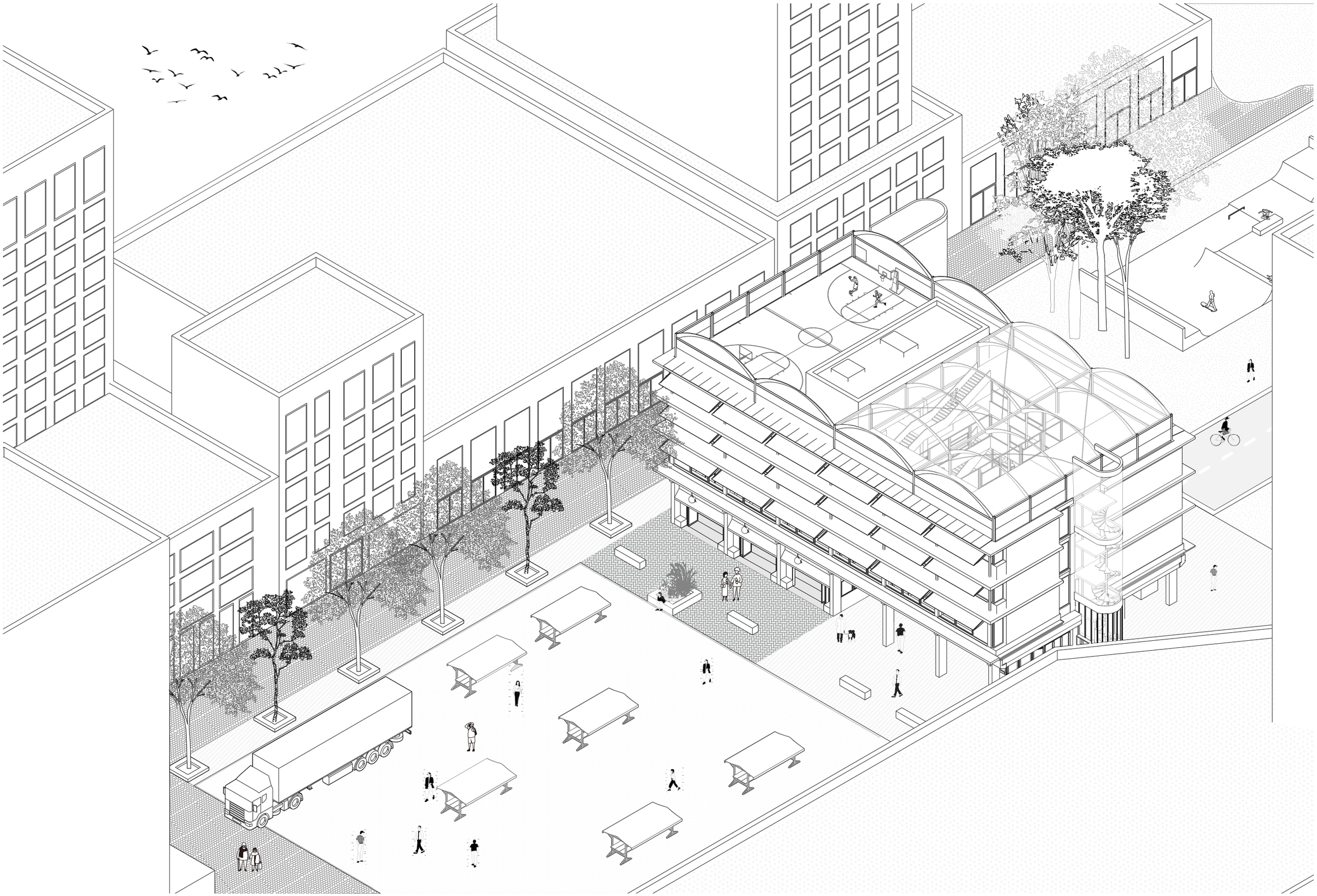


The Bowling in the new situation according to the plans of the municipality of Amsterdam

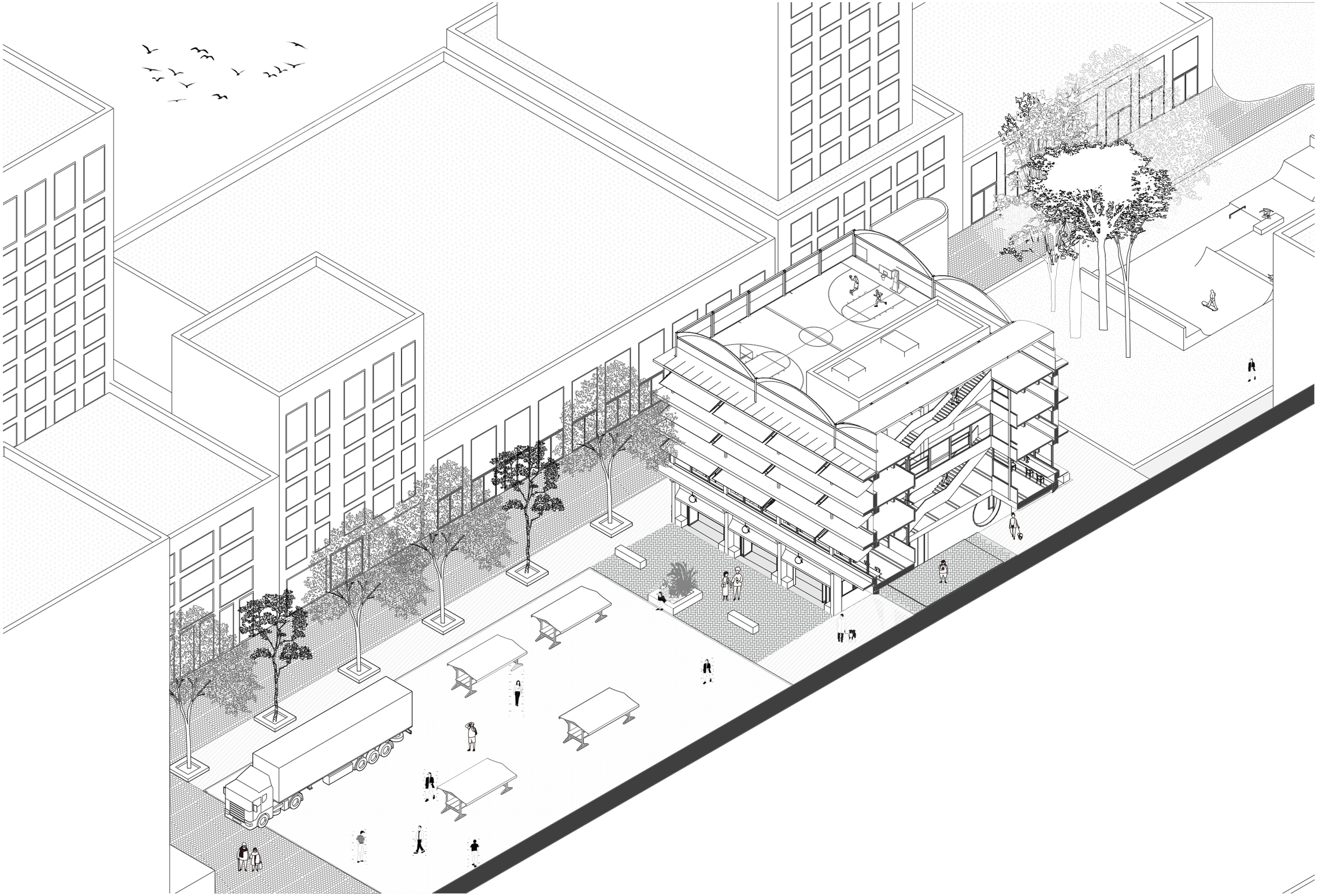


The new form in the future urban tissue

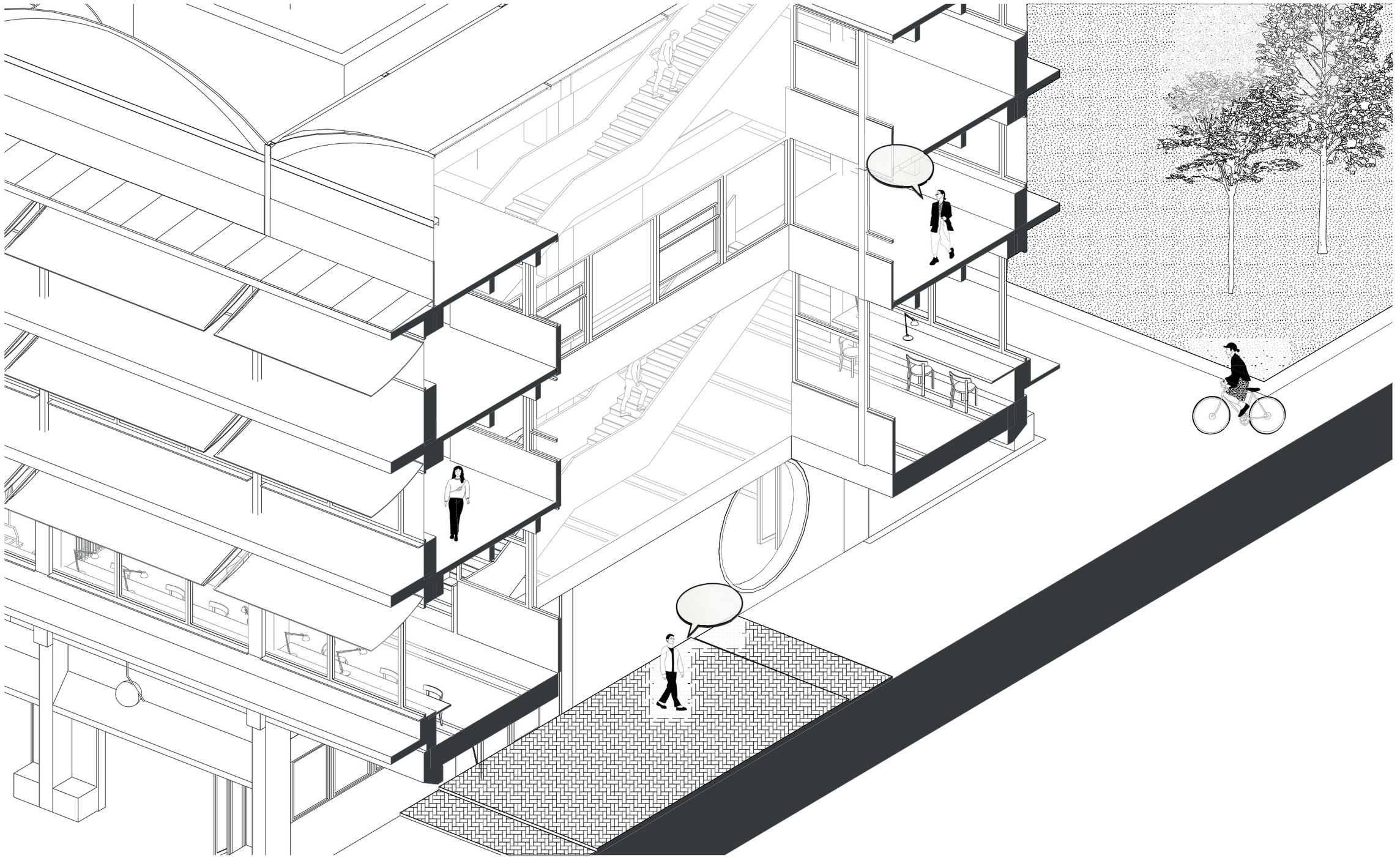
perspective view from the market square to the building
the arched roofs and the first floor are transparant and therefore visible



Axonometric view on the building and the connection to the park and market side

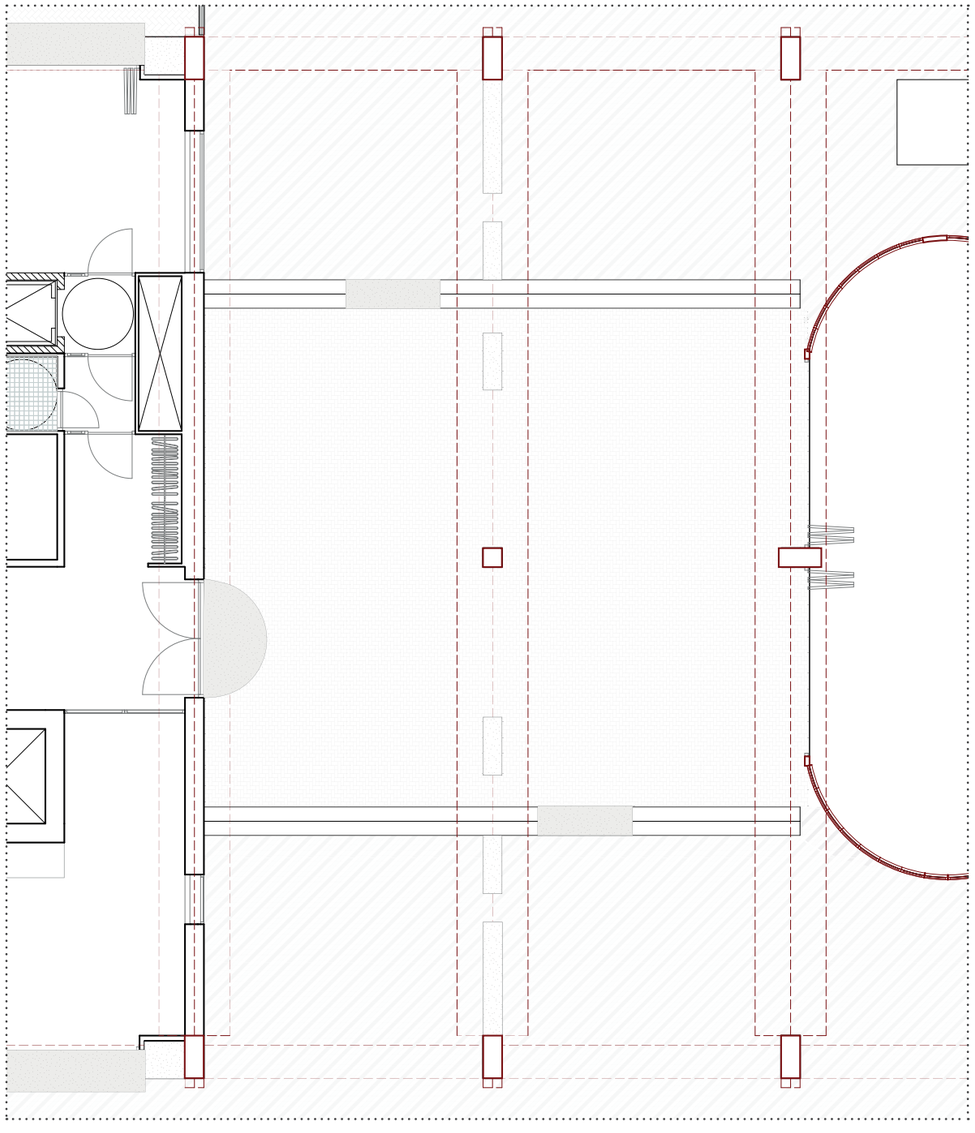


A section of the building showing the circulation space above the passage and the connection to the park en market side

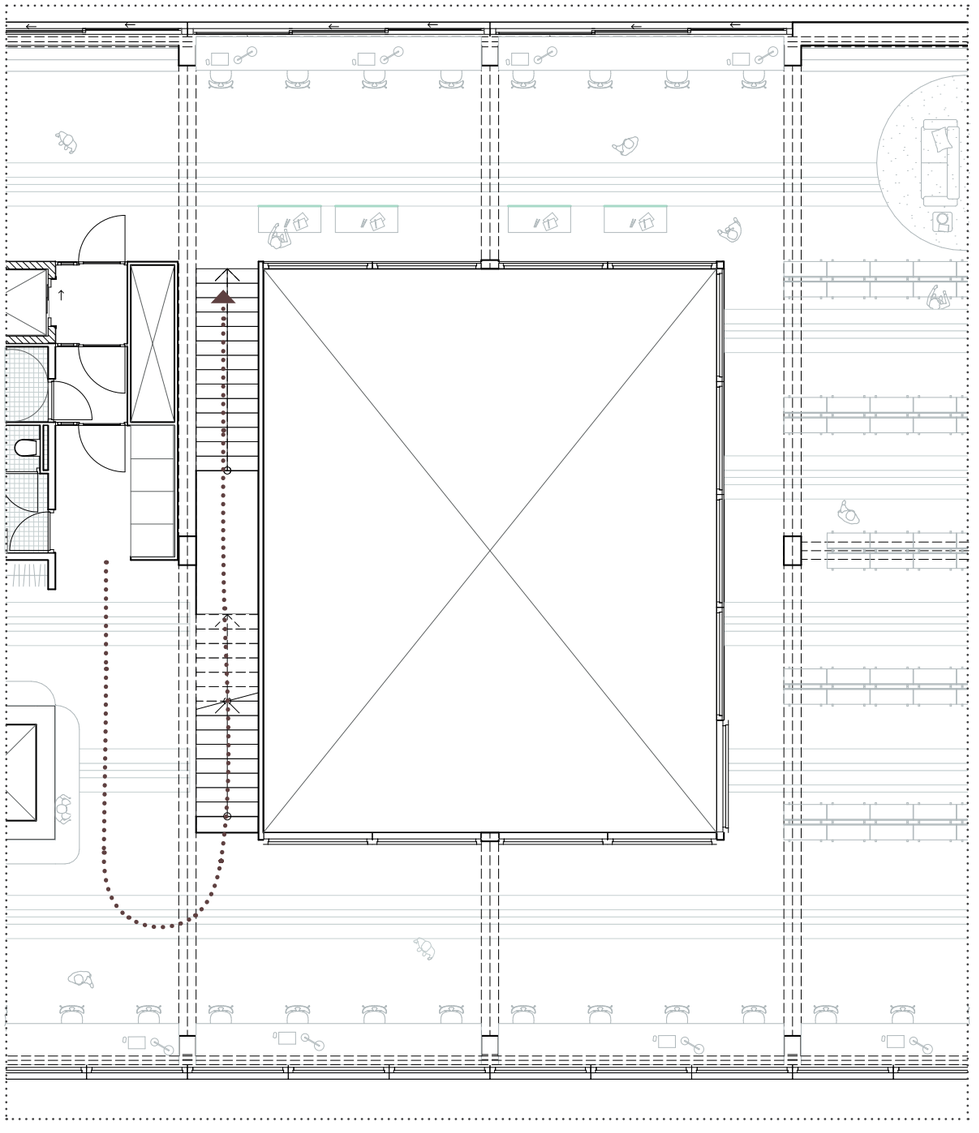


A zoom in on the void above the passage with its connecting stairs, showing the social role of the element

Void reflected in the floorplans

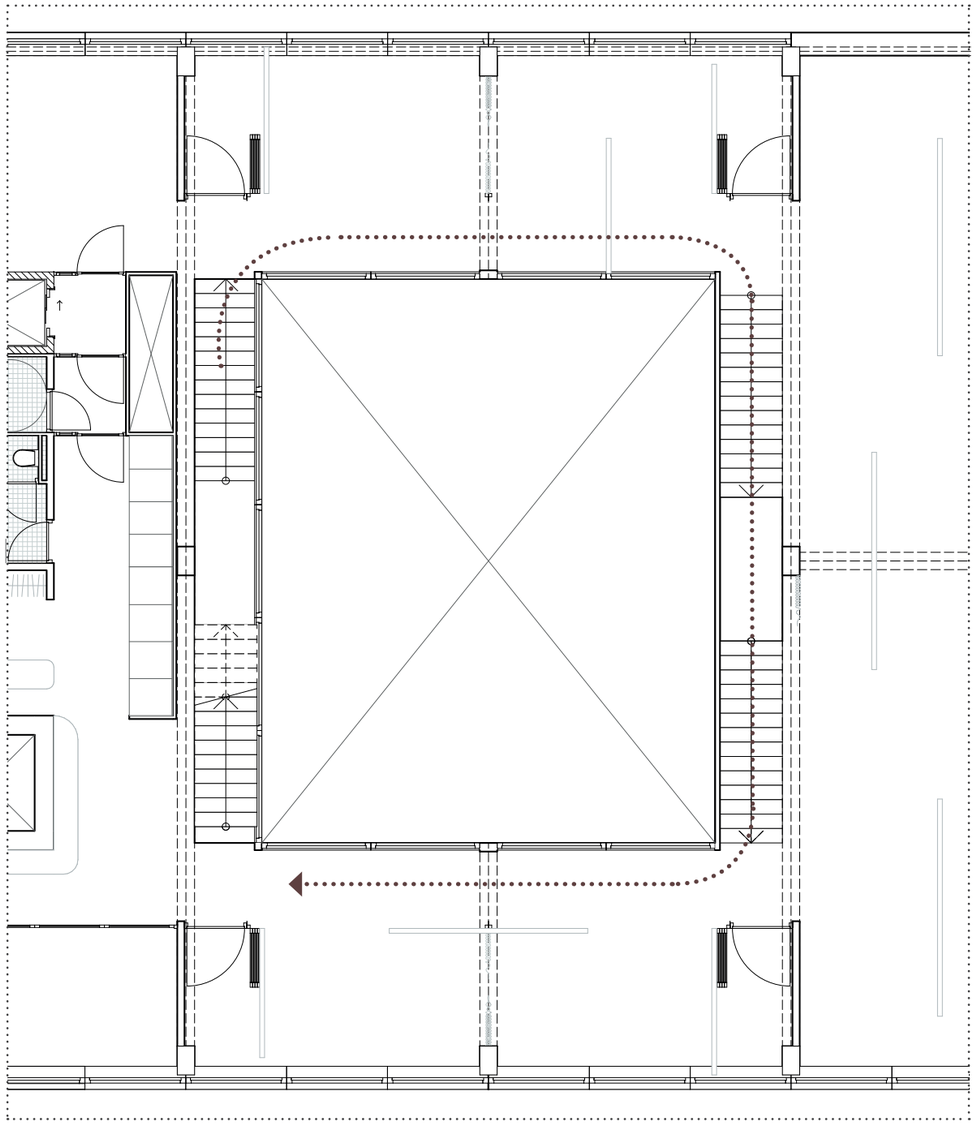


The void reflected on the ground floor with steps and special pavement

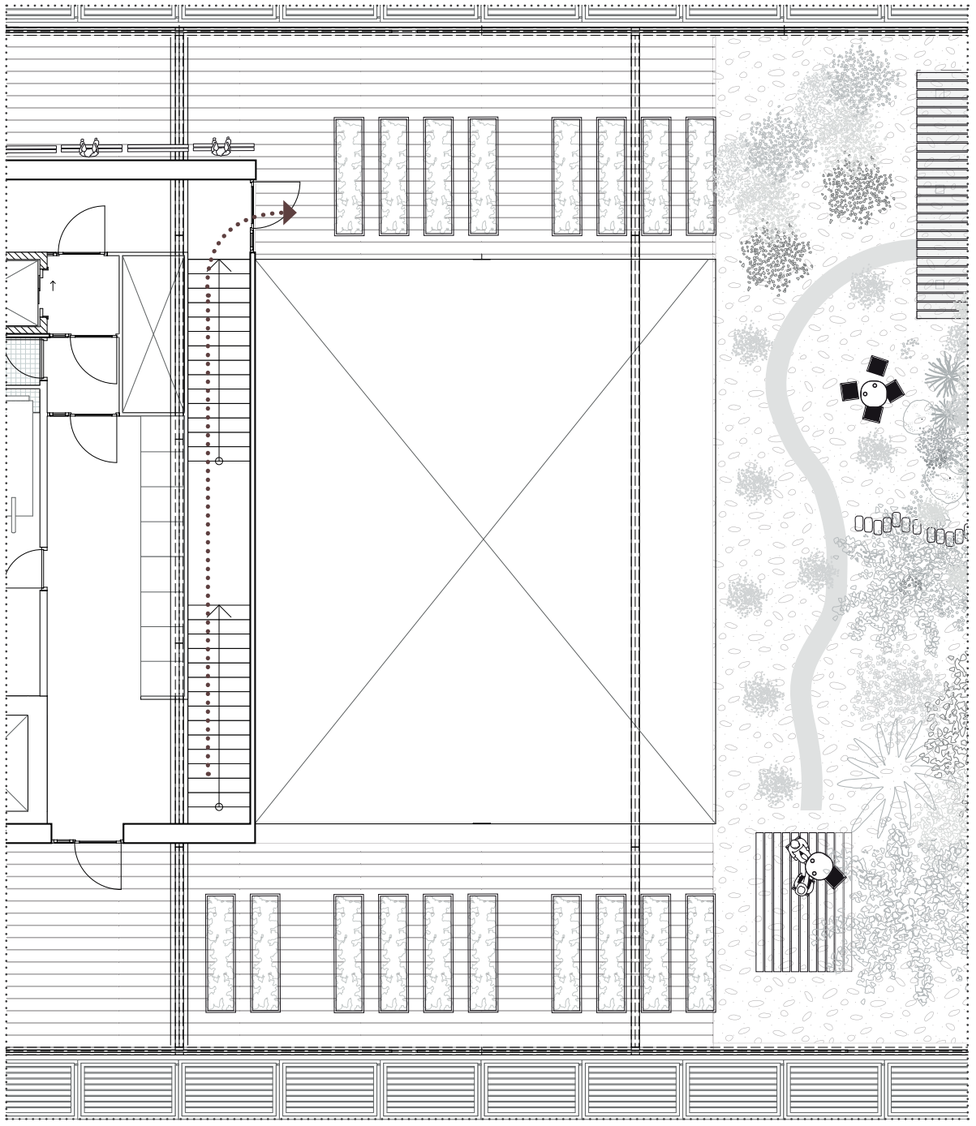


The void on the first floor connecting all the spaces and stairs

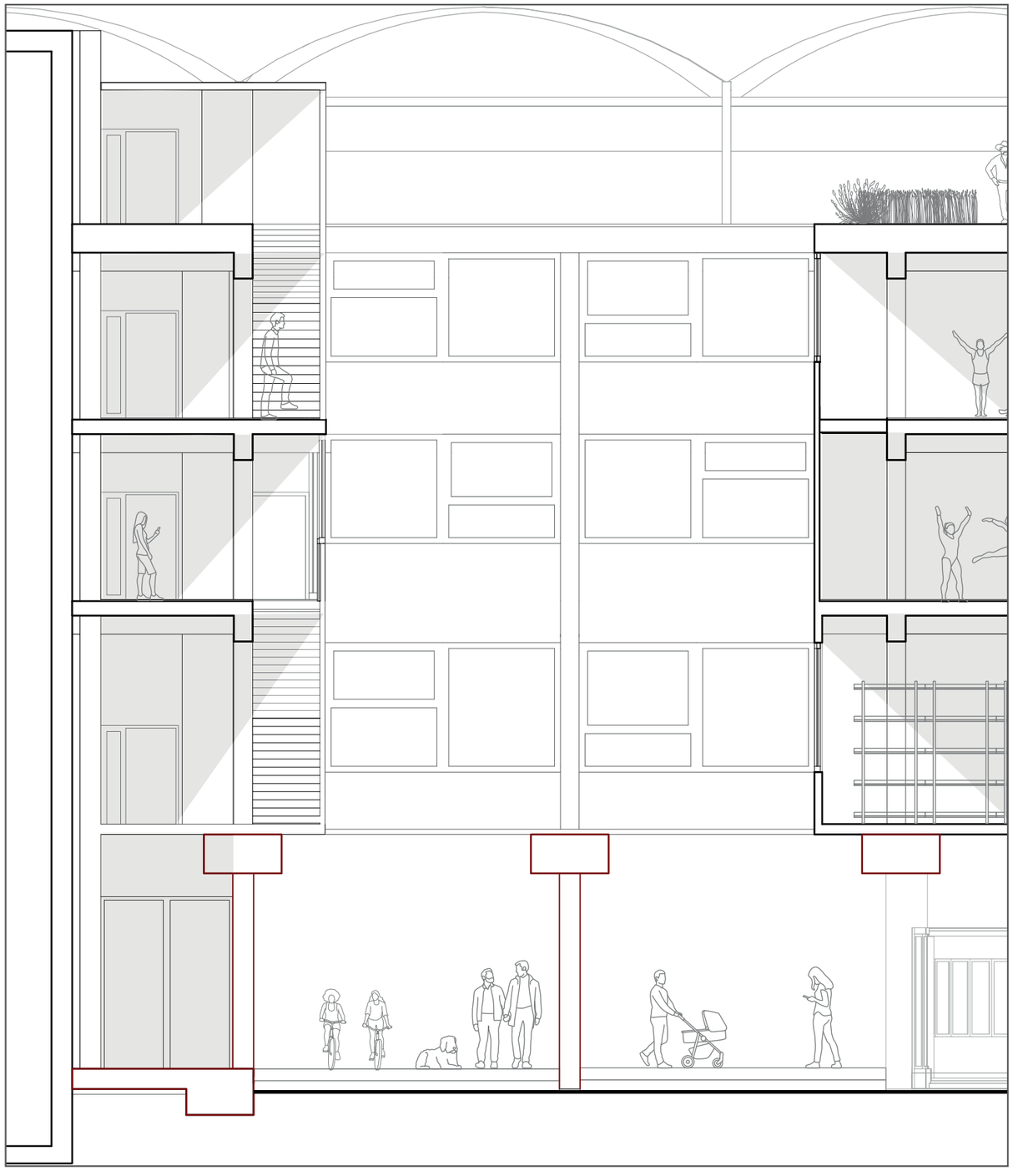
Circulation sequence

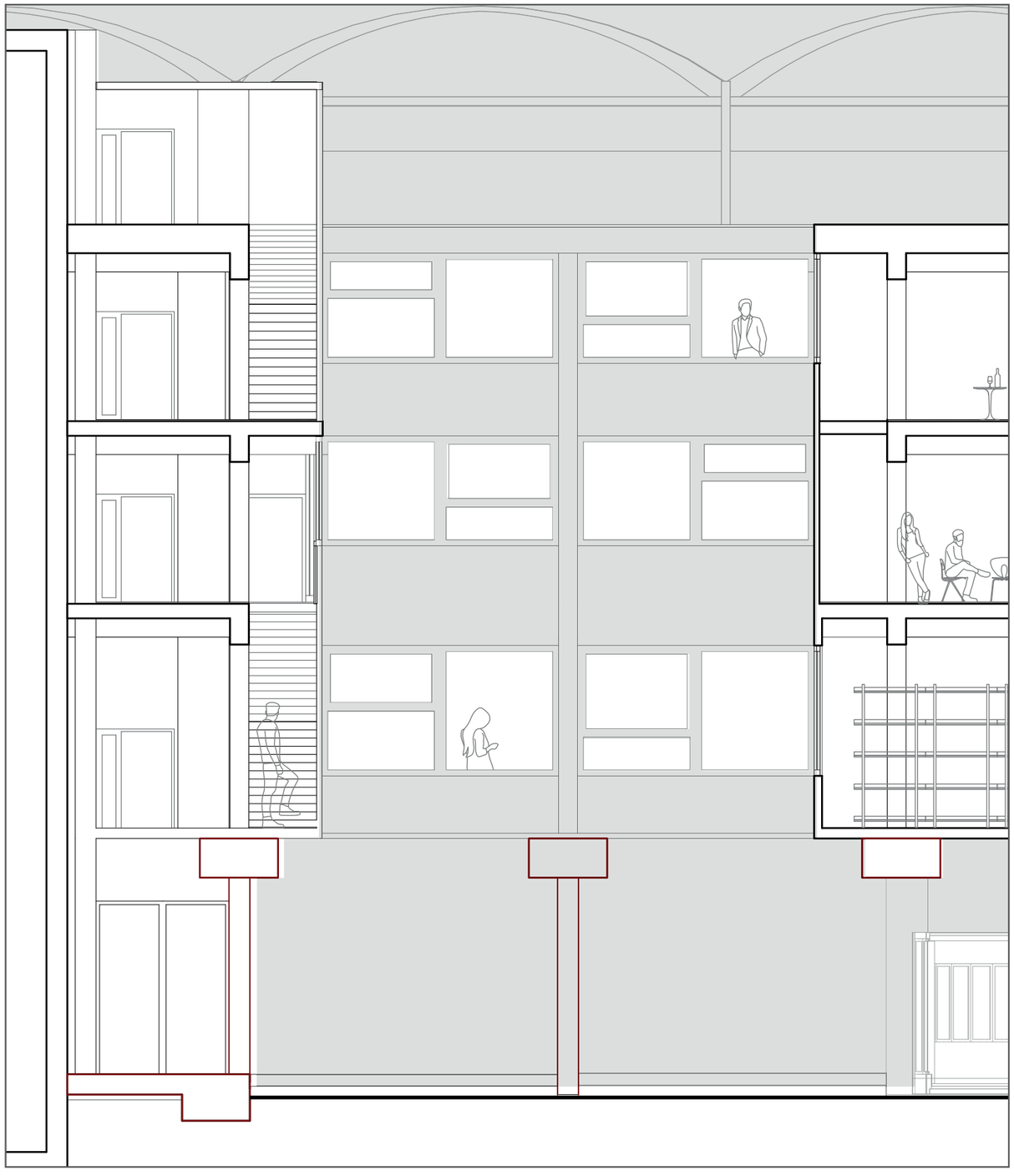


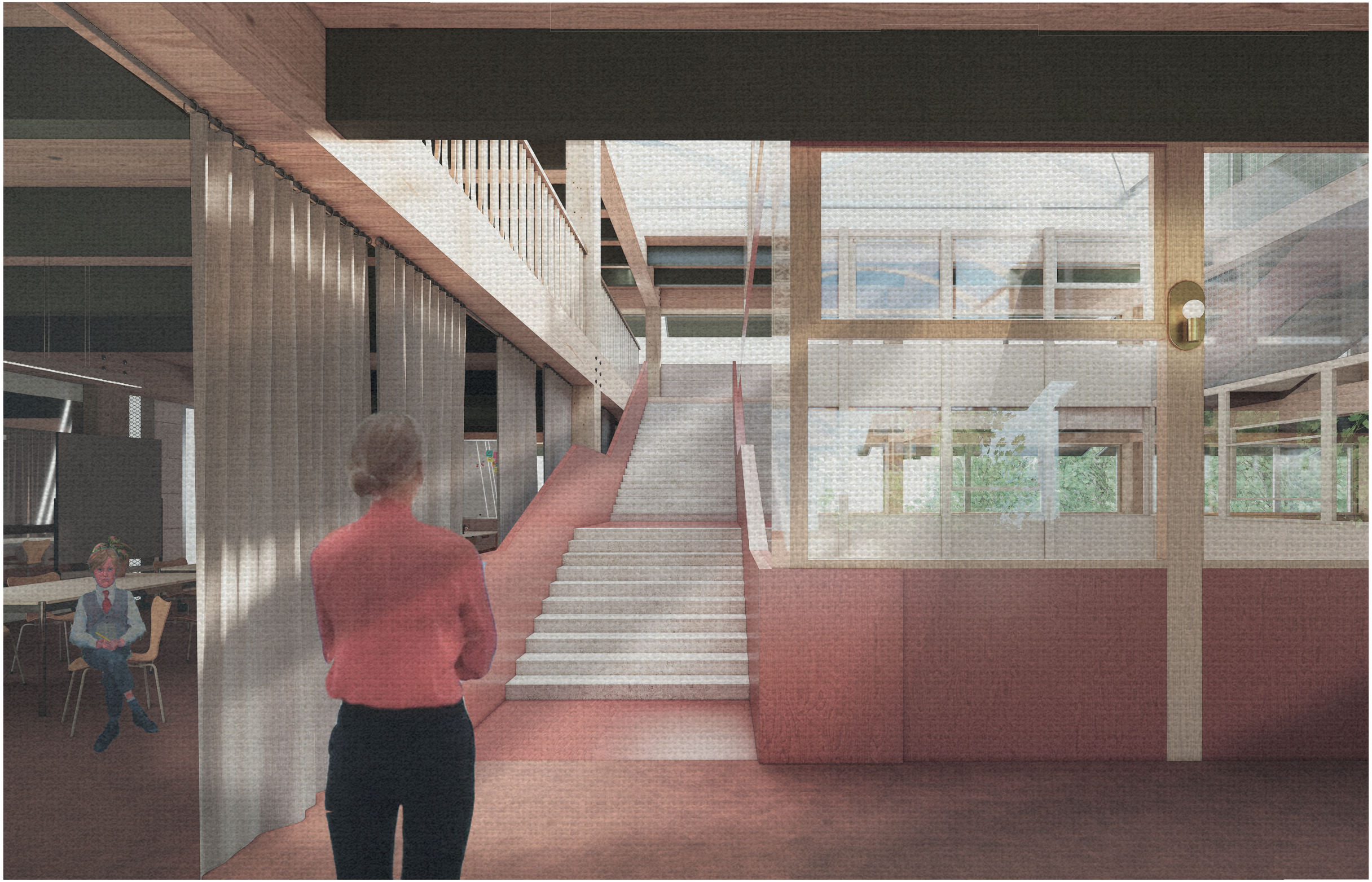
Flow of the void with its connected stairs



The void ending at the roof were there is a connection with the roof garden and the basketball court



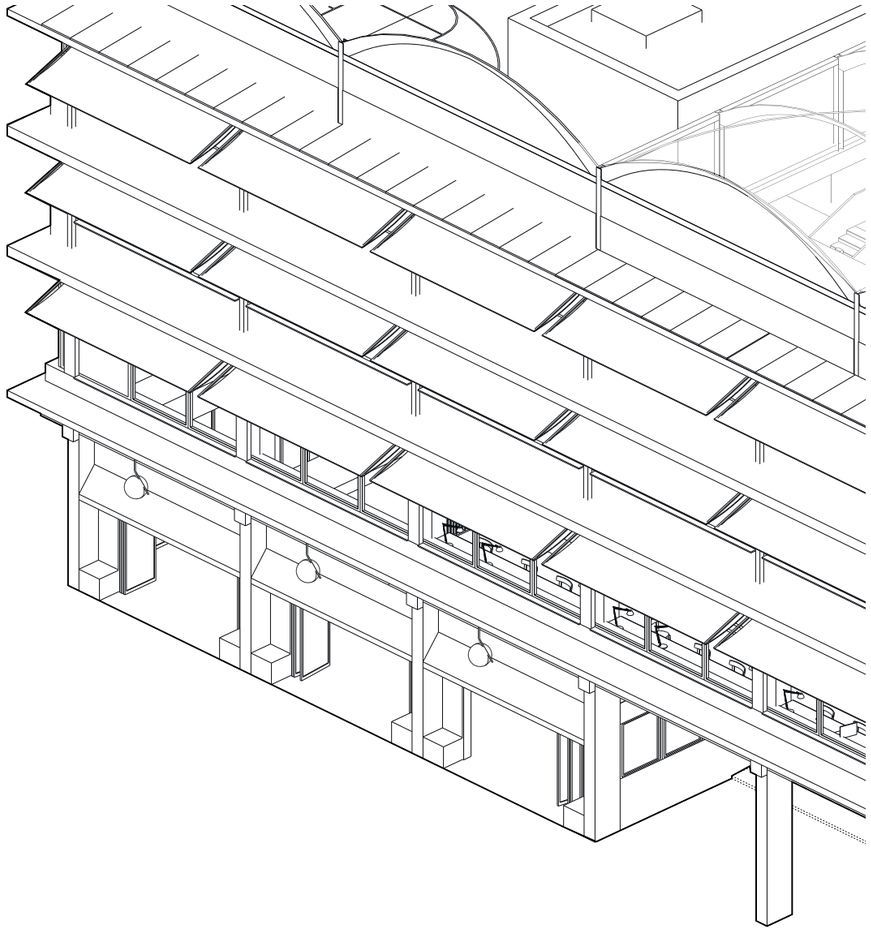




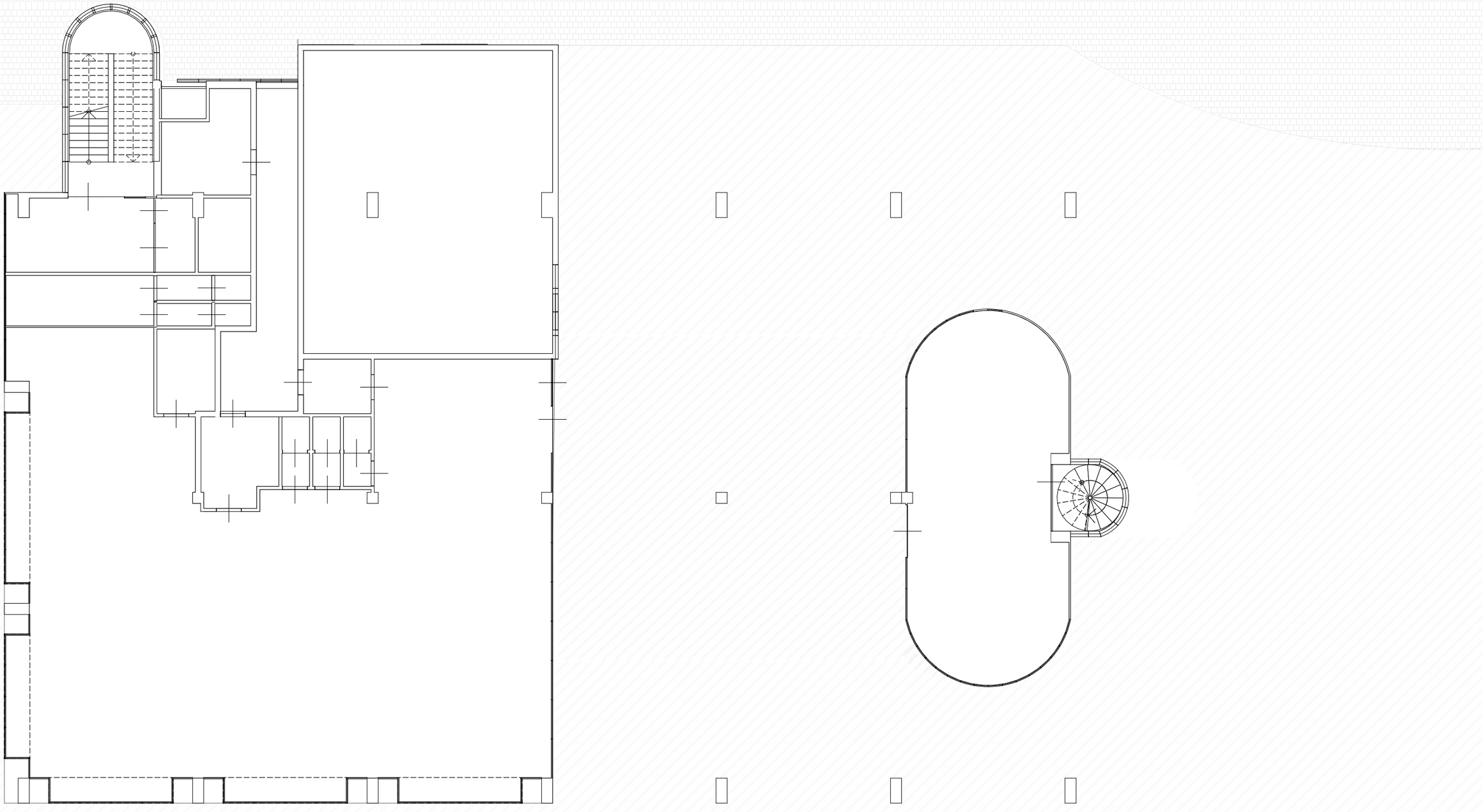
impression of the void and the connected stairs
The void offers visual connections to the adjacent and upper spaces

impression of the void
The interior spaces and their activities are visible from the ground floor

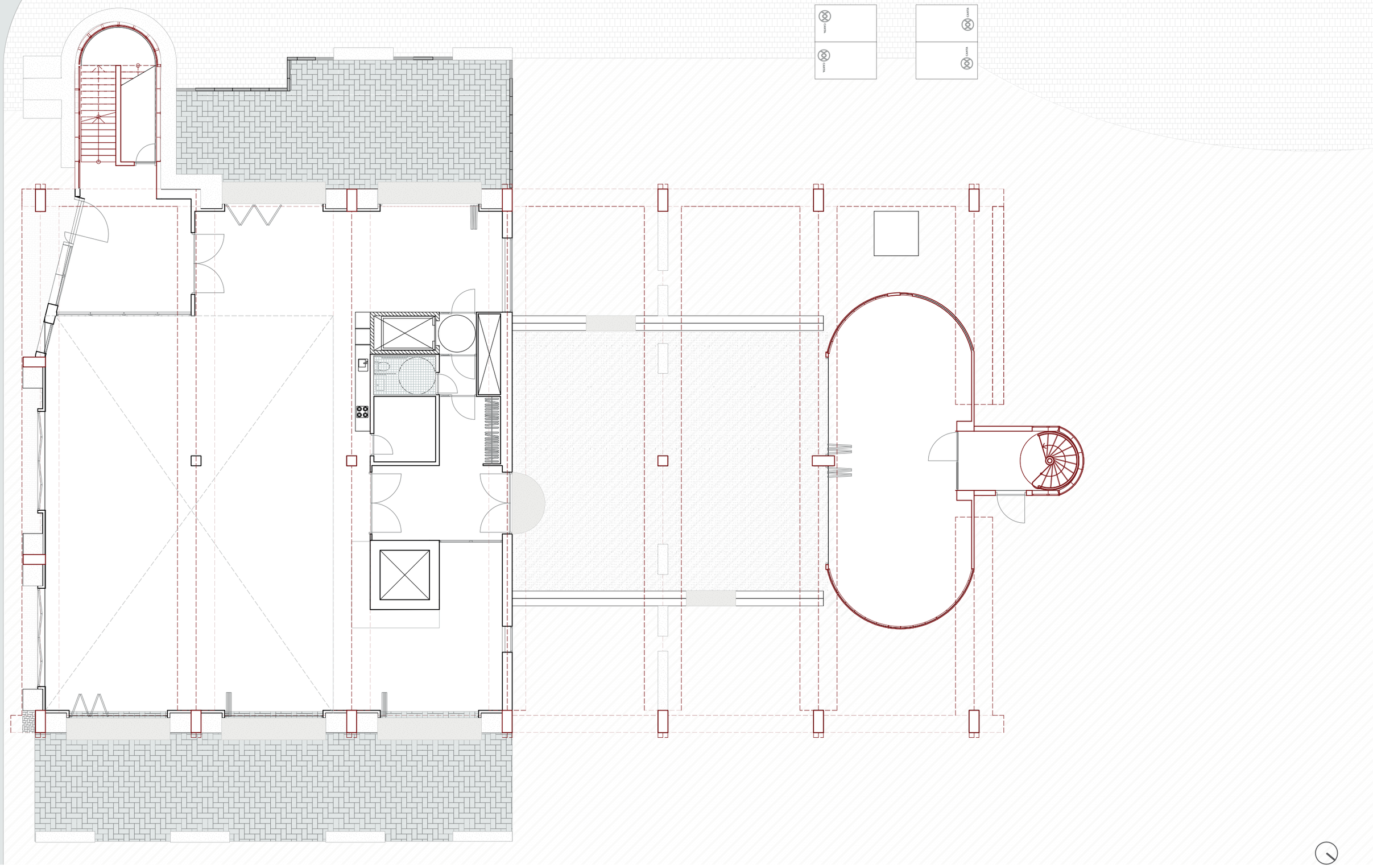
The ground floor - thresholds small scale



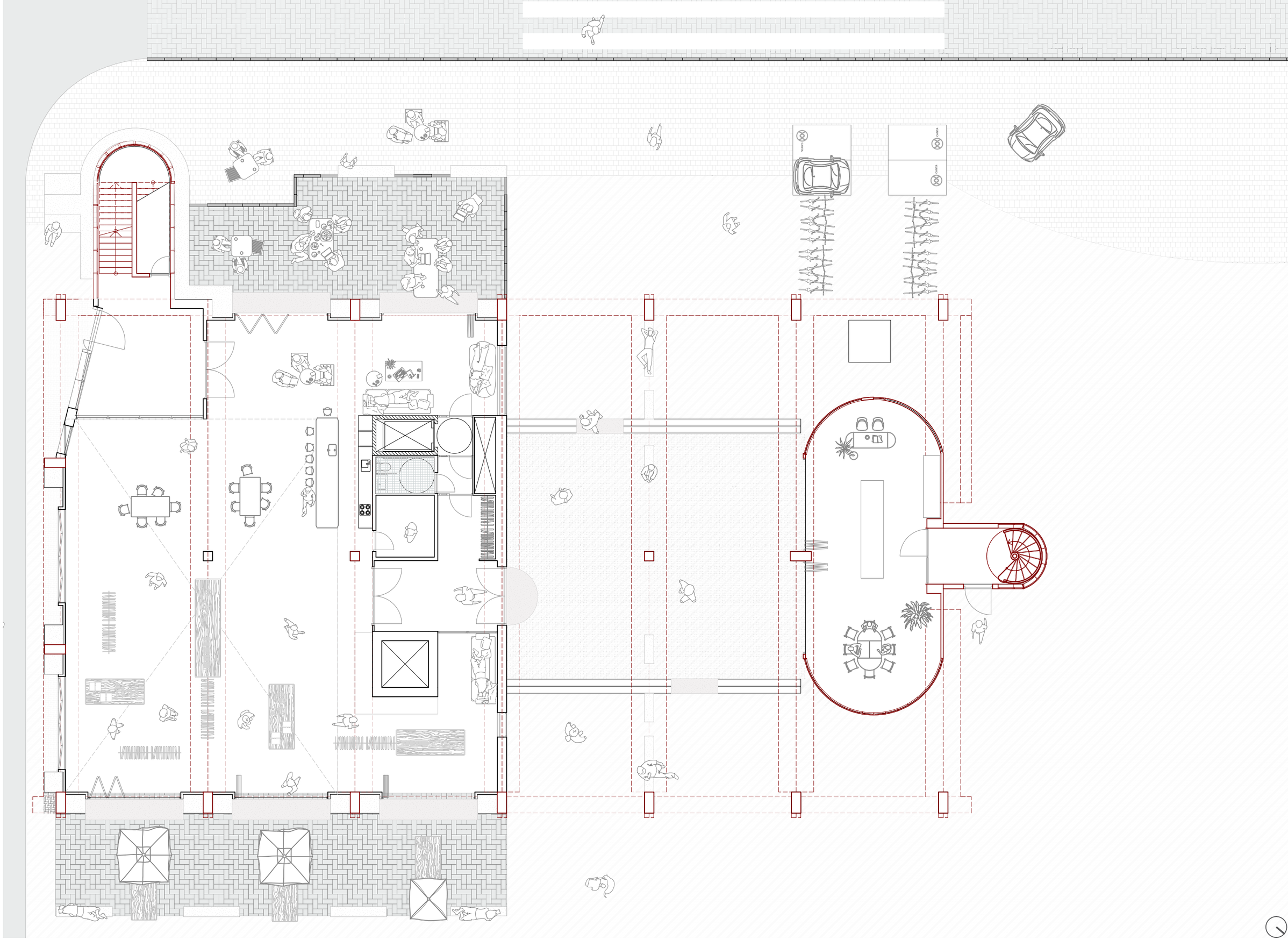
Axonometric ground floor level



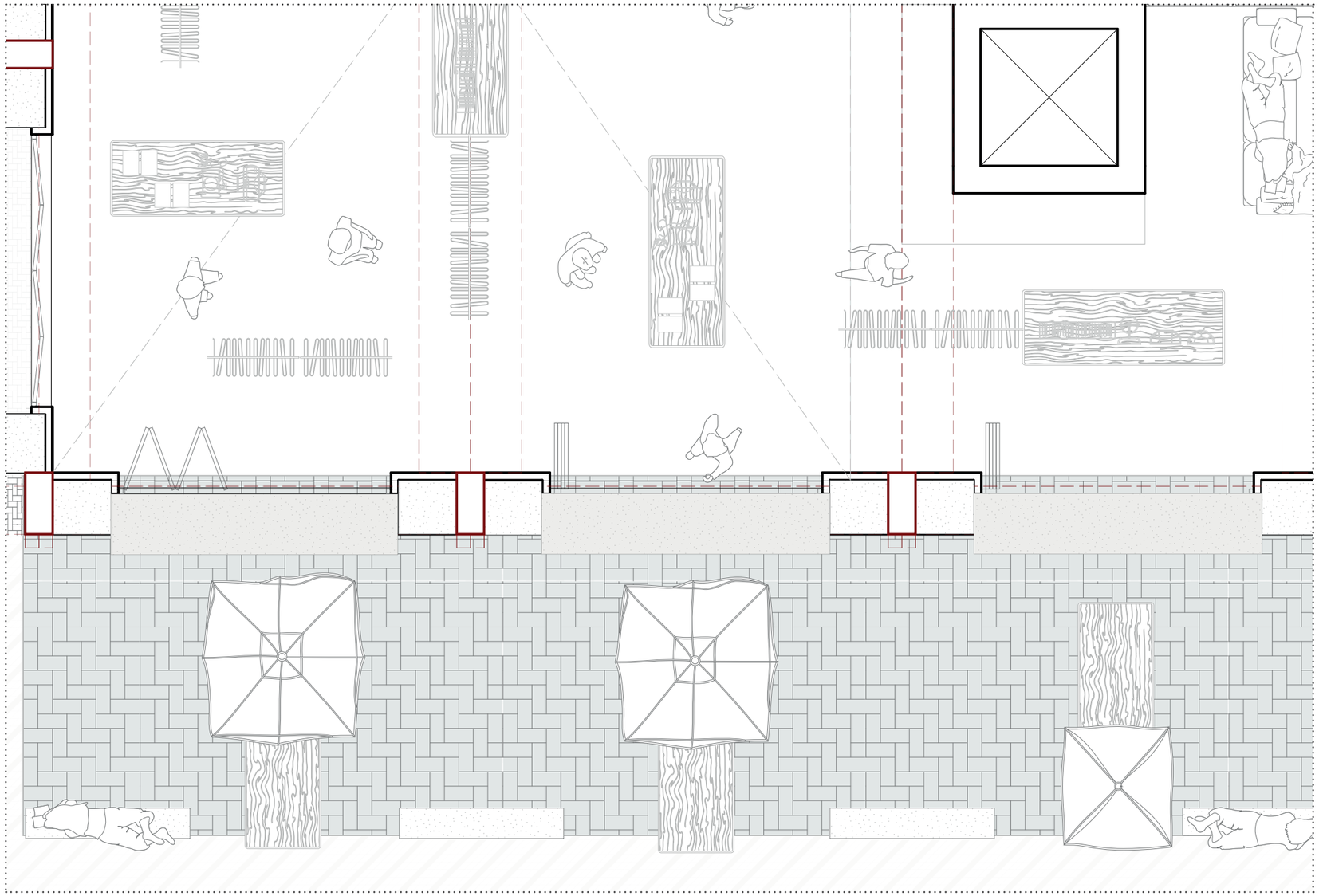
existing ground floorplan 1:125



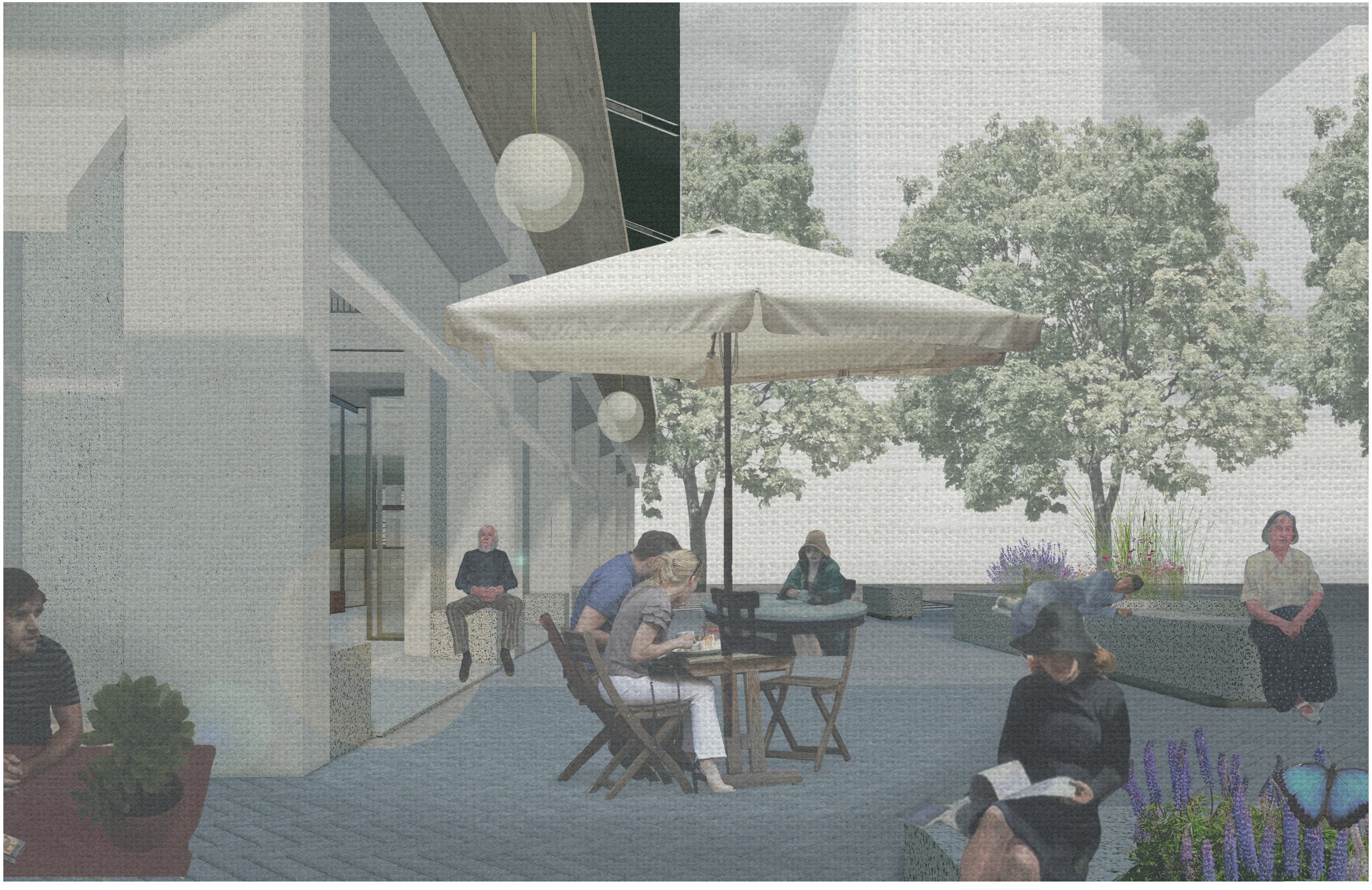
ground floorplan 1:125



ground floorplan 1:125 showing different activities

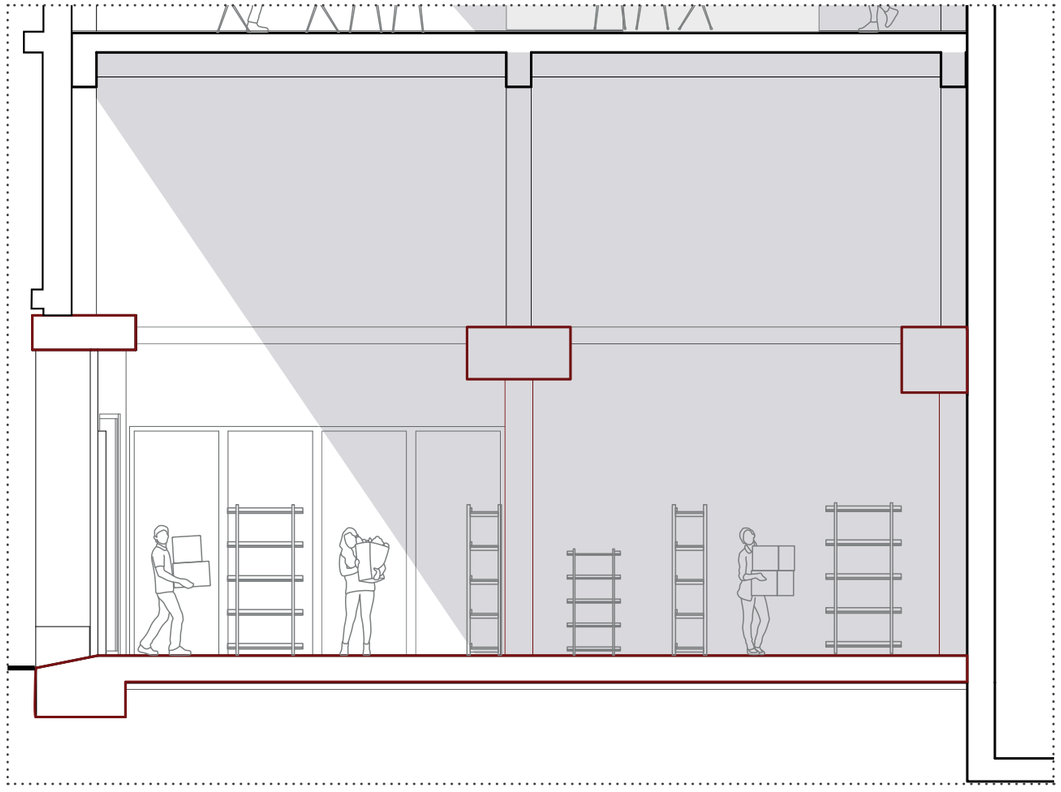


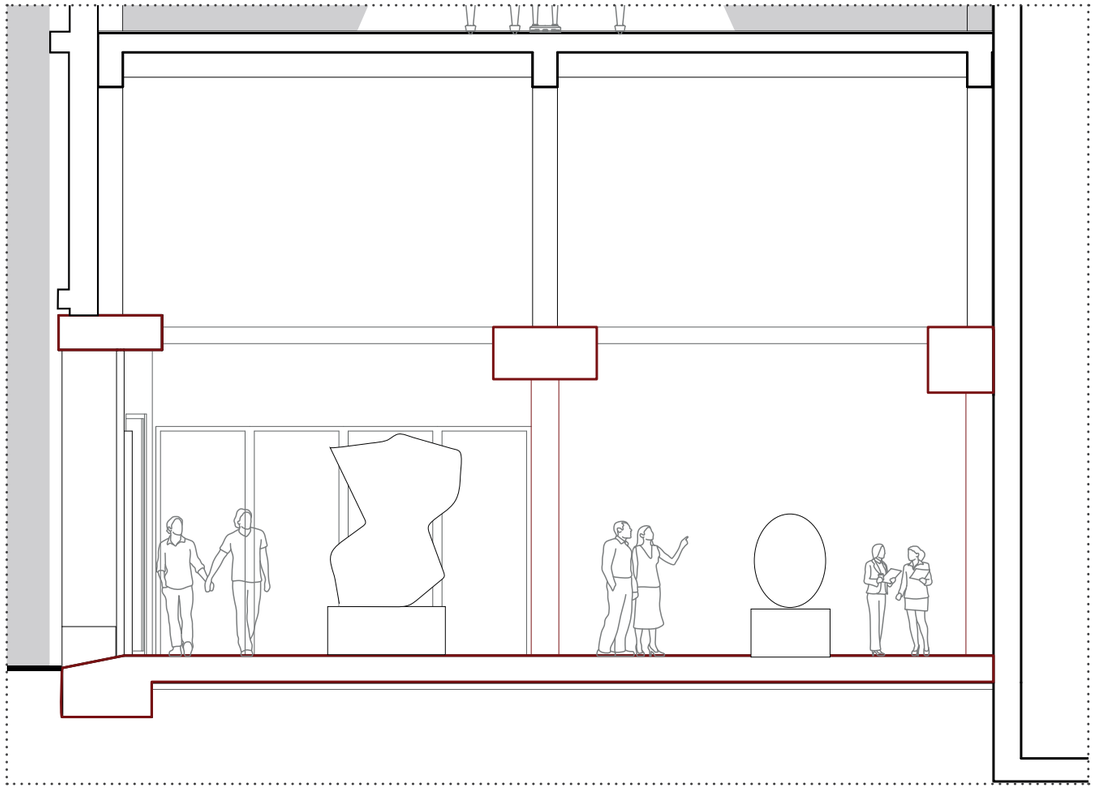
The transition zone between market side and building. Including different elements of seating and distuingish itself by different patterns

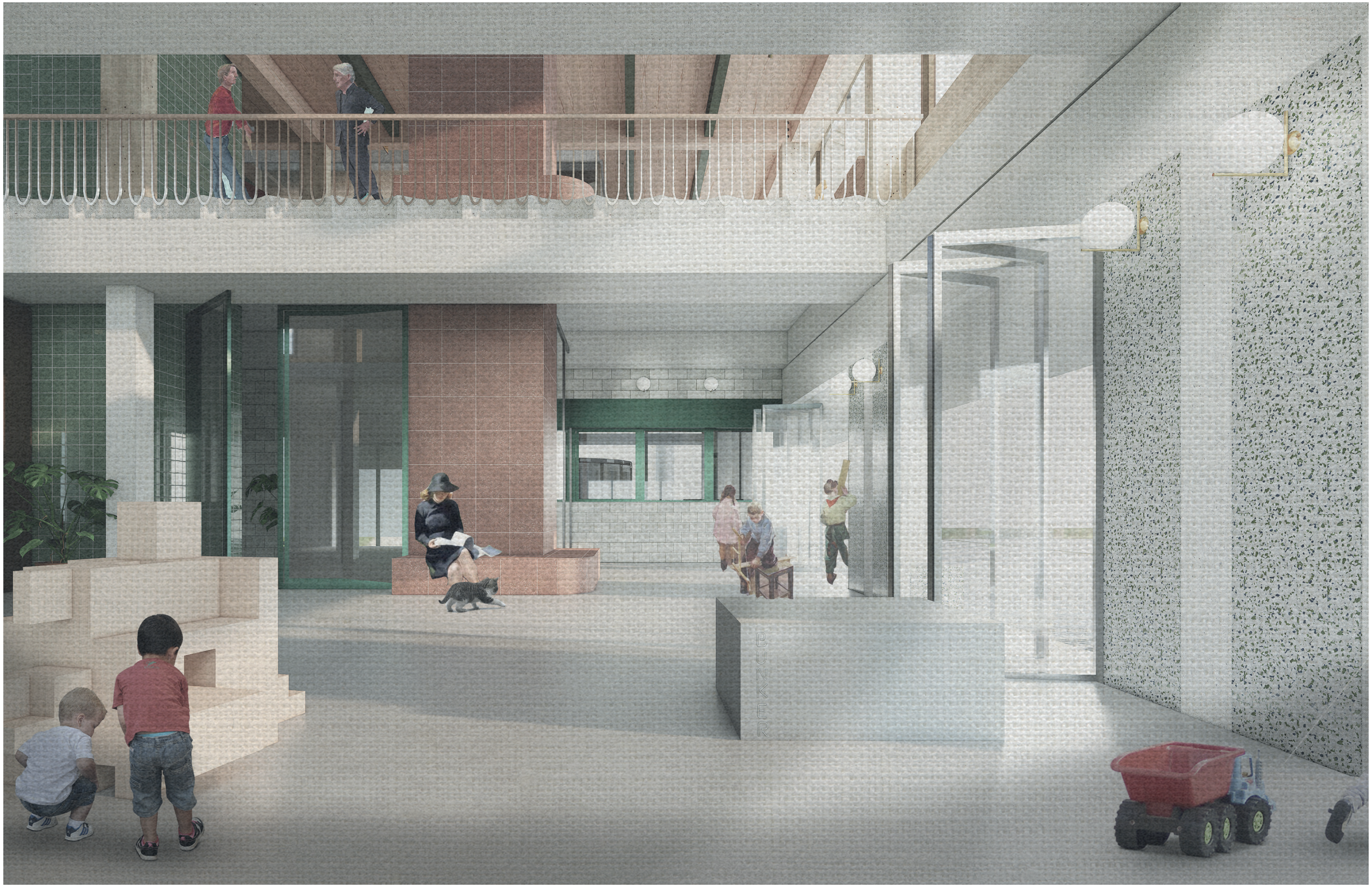


impression of the transition zone
providing space for differen uses, stays, seating and meeting

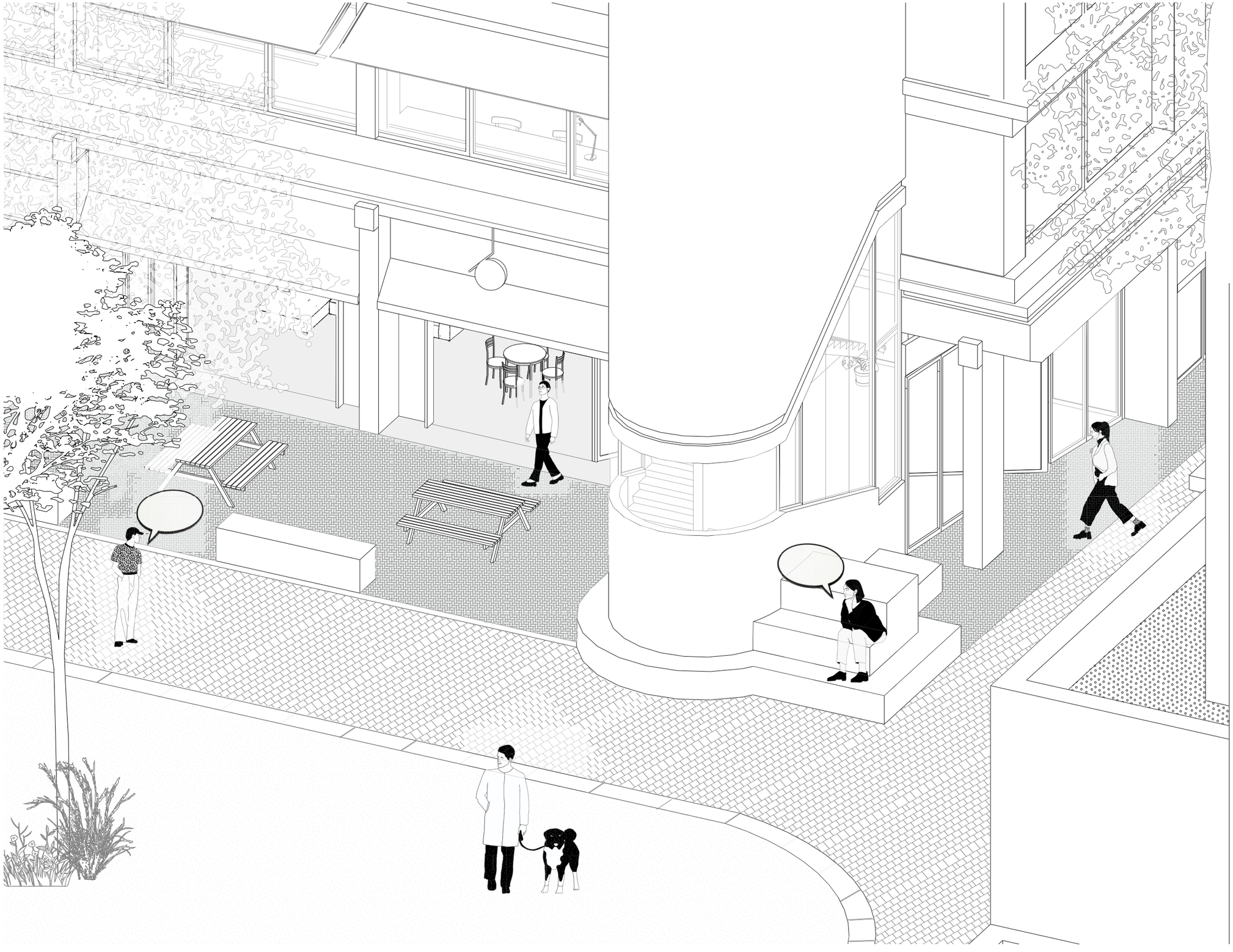
Groundfloor activities in section by day and night



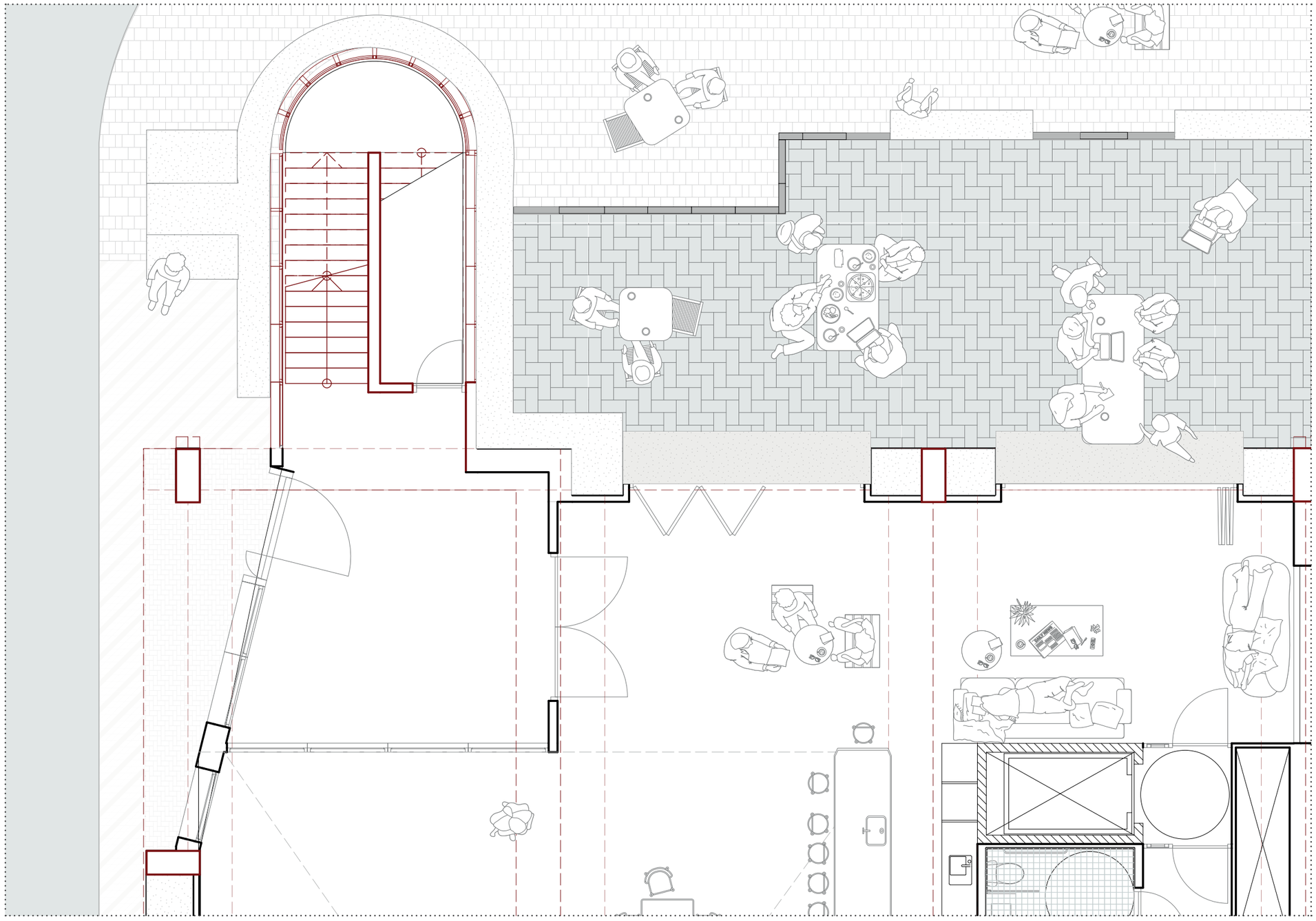




impression of the groundfloor
the groundfloor is open and ambiguous but still defined by
anchor elements like a fireplace or kitchen

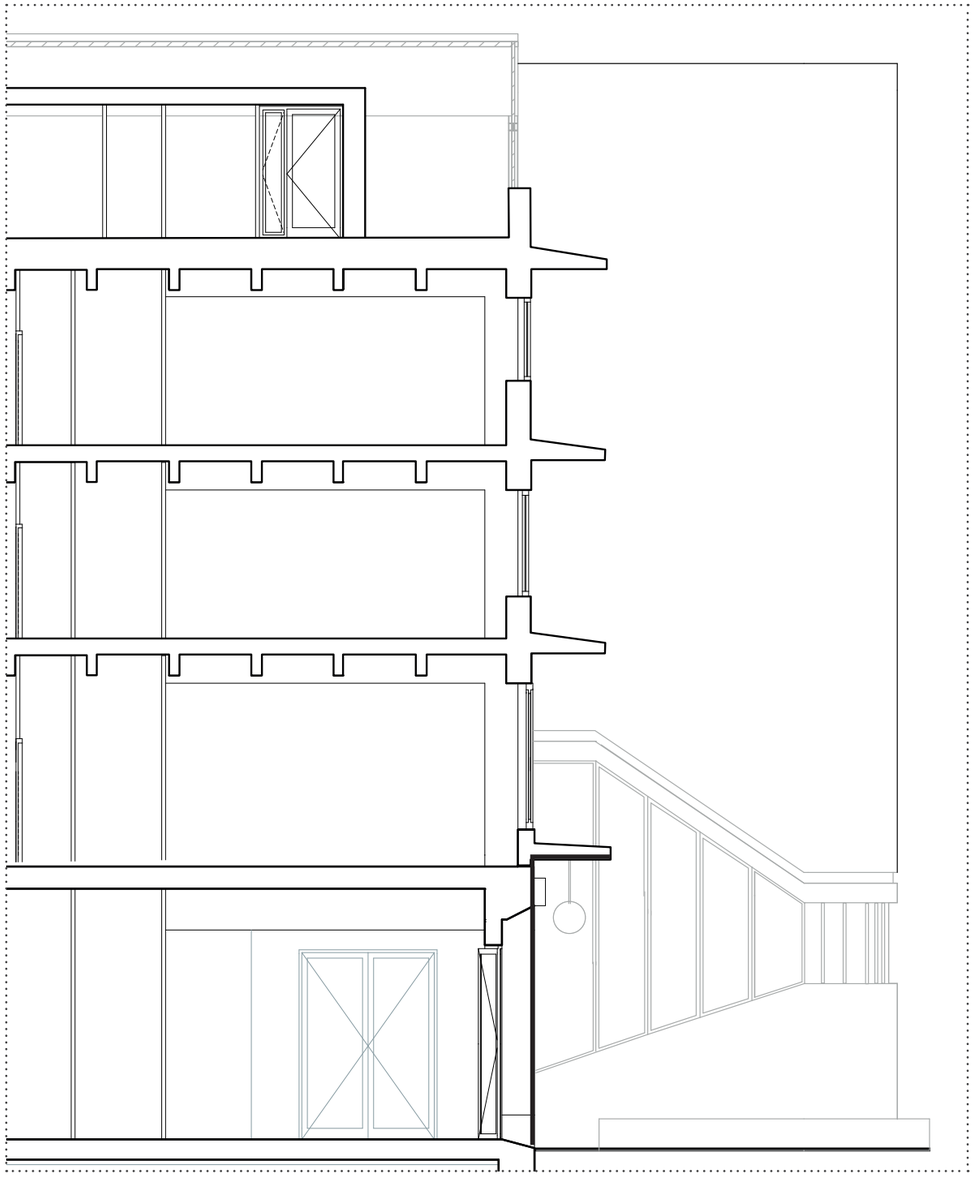


The niche on the west side, showing its connection to the park



The niche and transition zone on the west side in floorplan and the different activities in relation to te parkside

Canopy integrated into the facade design



Sheltered space by adding horizontal elements and intergrated lights

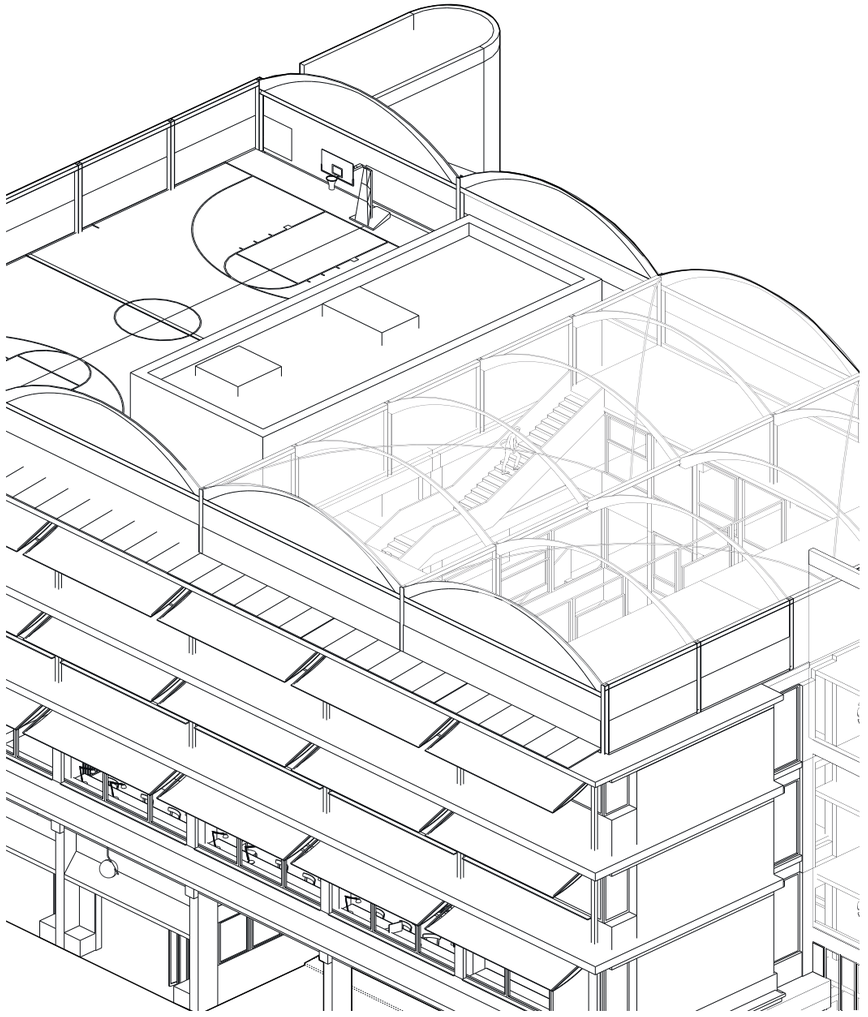
Existing entrance extended to roof

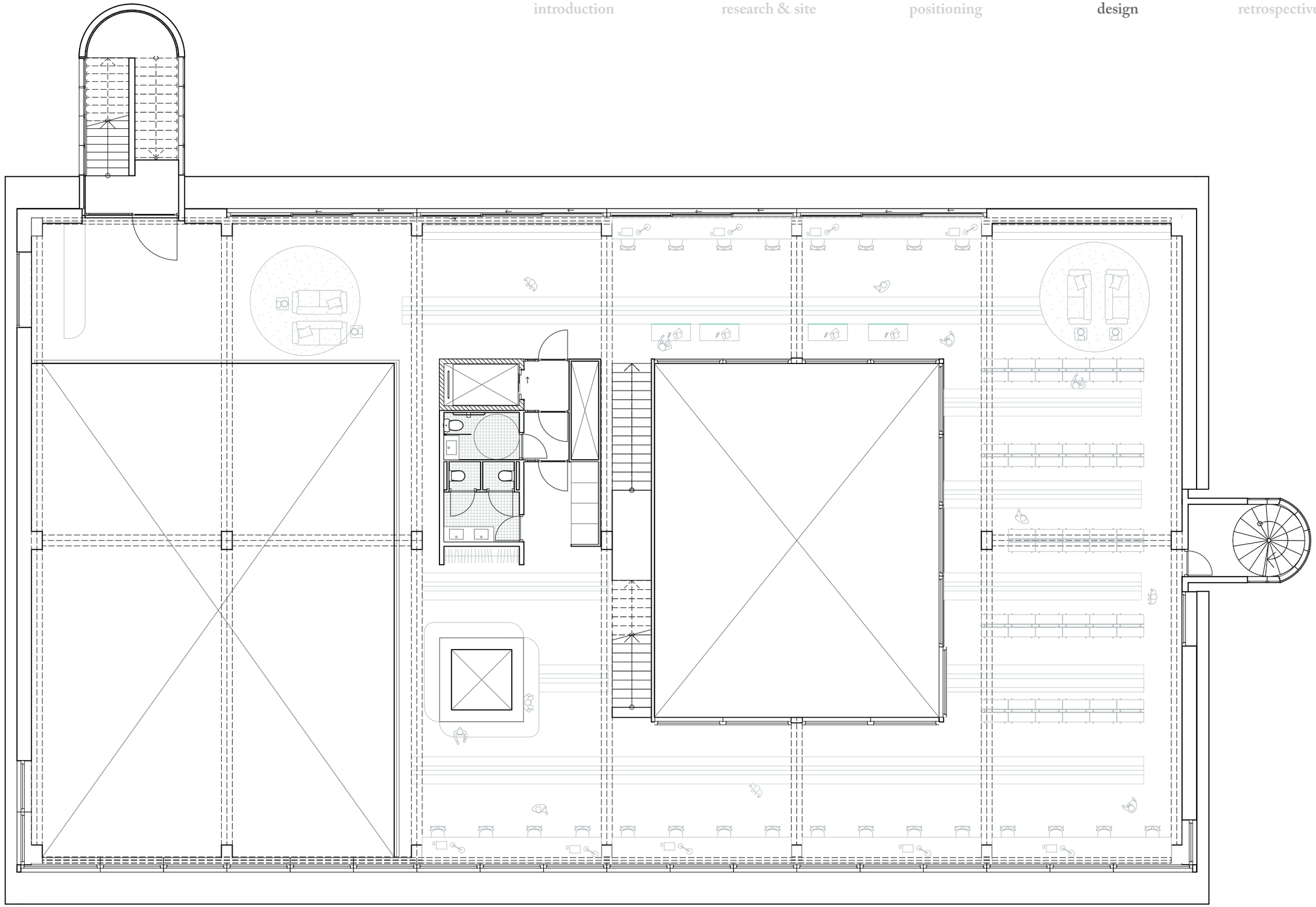
The extended mobility space extended to the roof

impression of the transition zone at the west side with the extended mobilty space
Showing the relation to the park side with different pavements and seating possibilities

view by night to the west side
The extended mobility space is giving a clear signage to the surroundings

thresholds manifesting through
flexibility and anchor elements

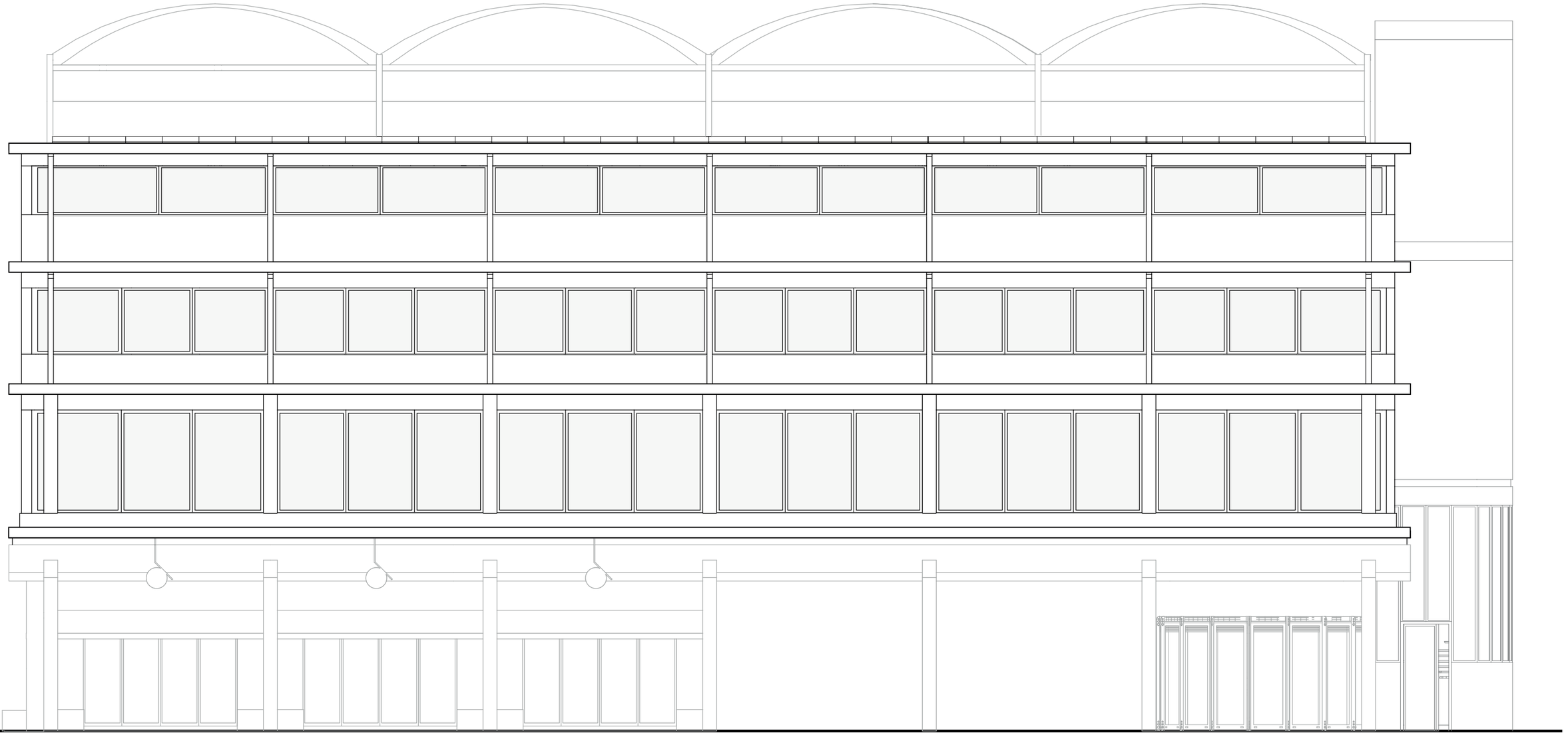




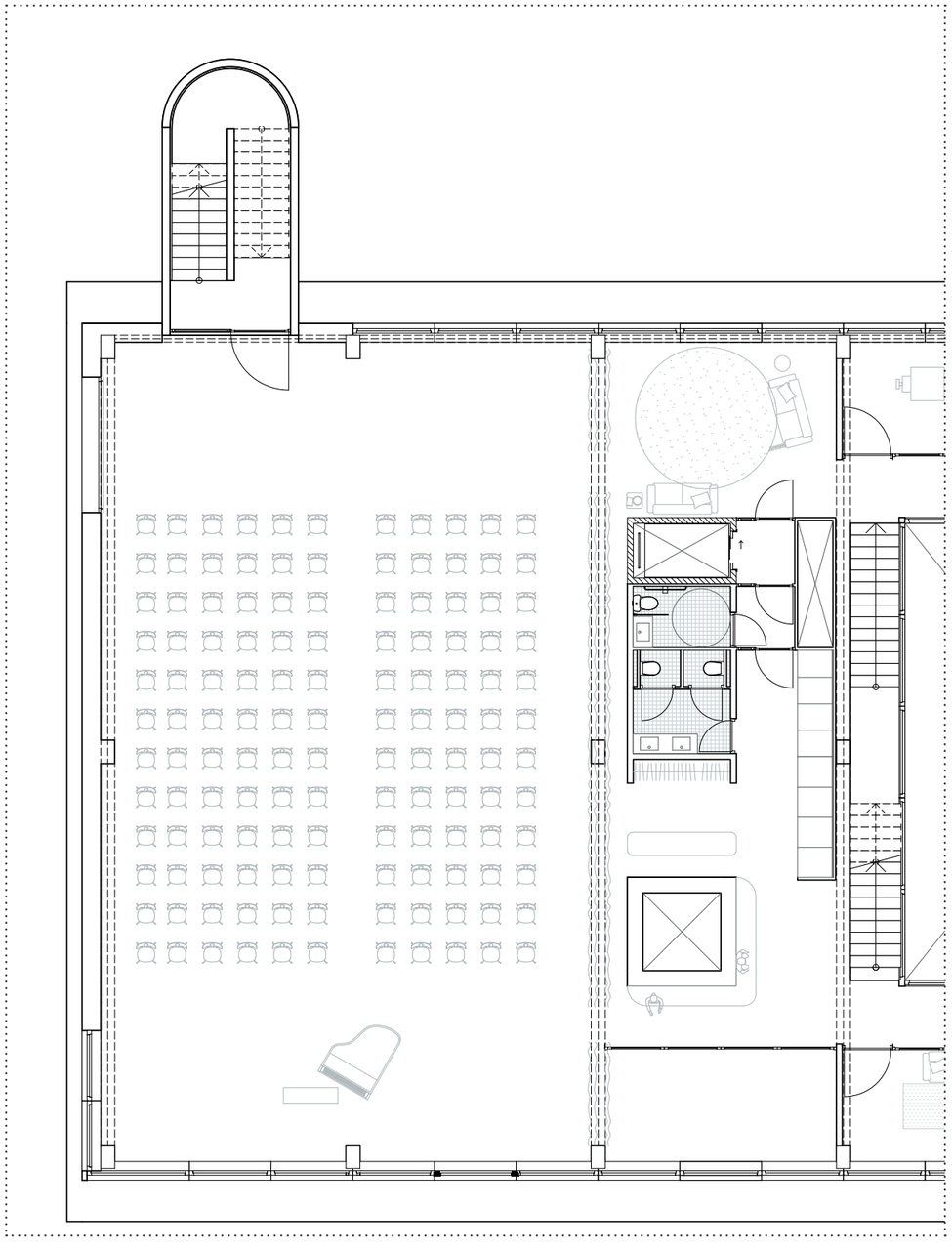
firstfloor 1:100 the library

impression of the library with intergrated tables
The intergrated tables provides the possibility to work at and have a view to the market side

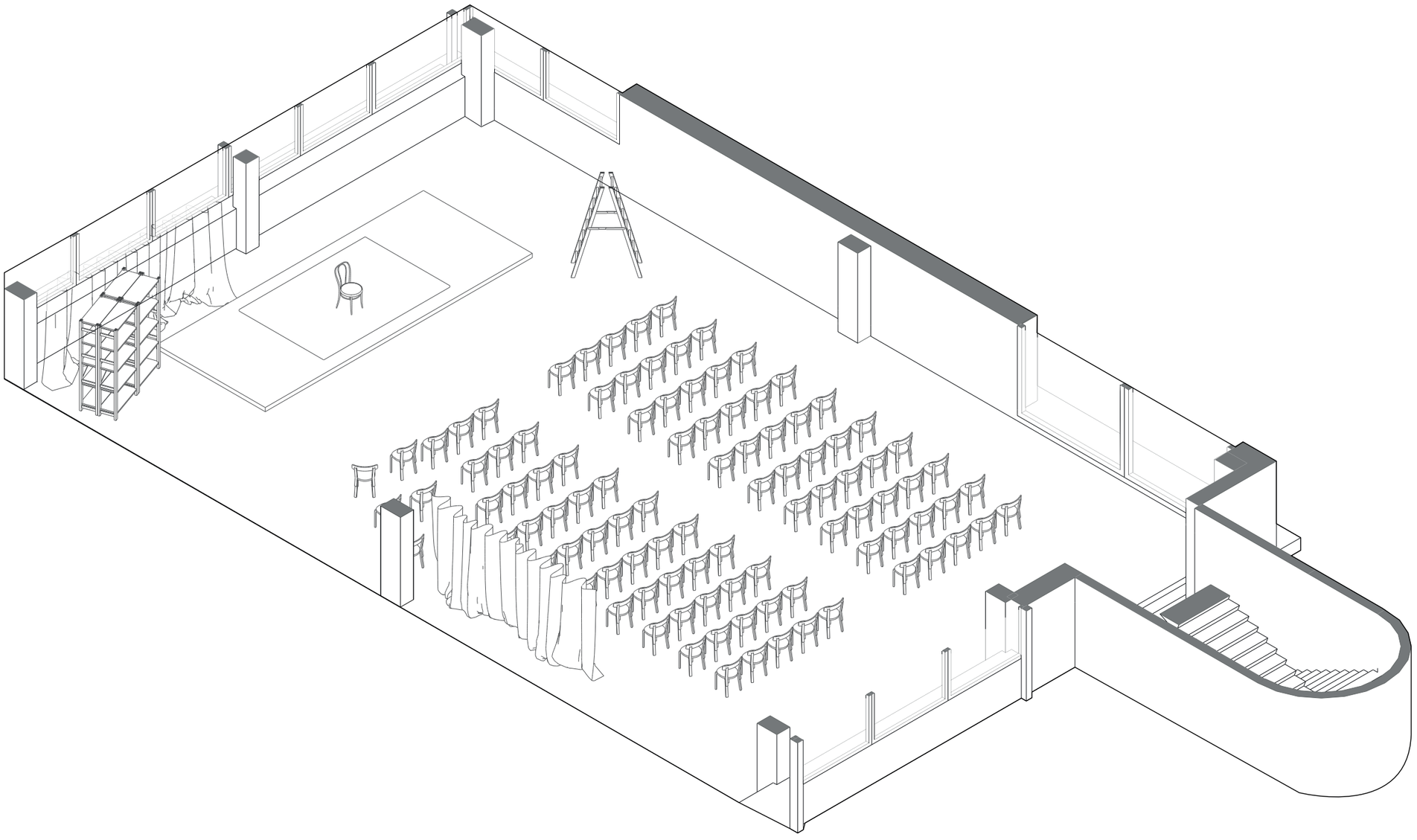
East facade 1:100



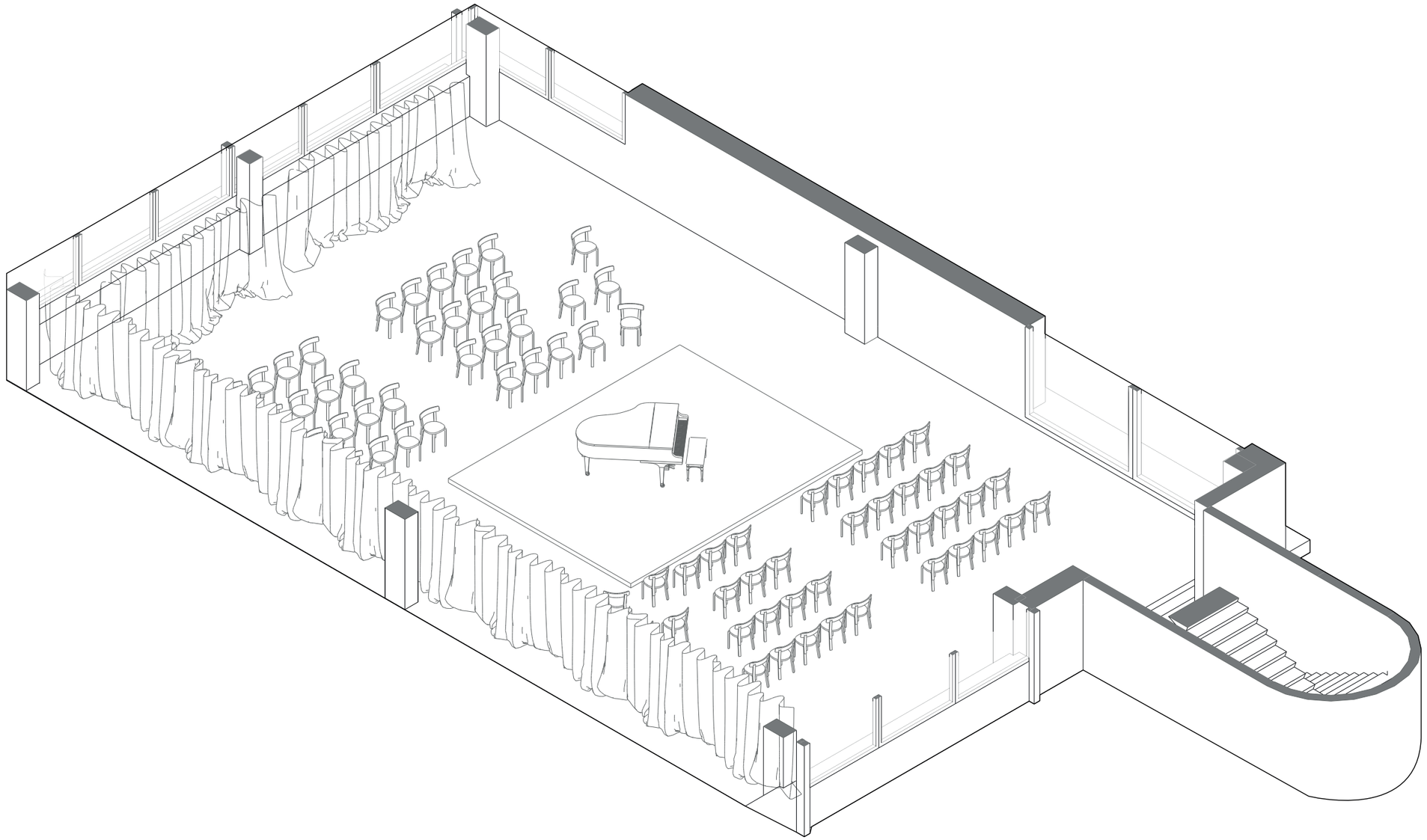
The bigger space at the second floor



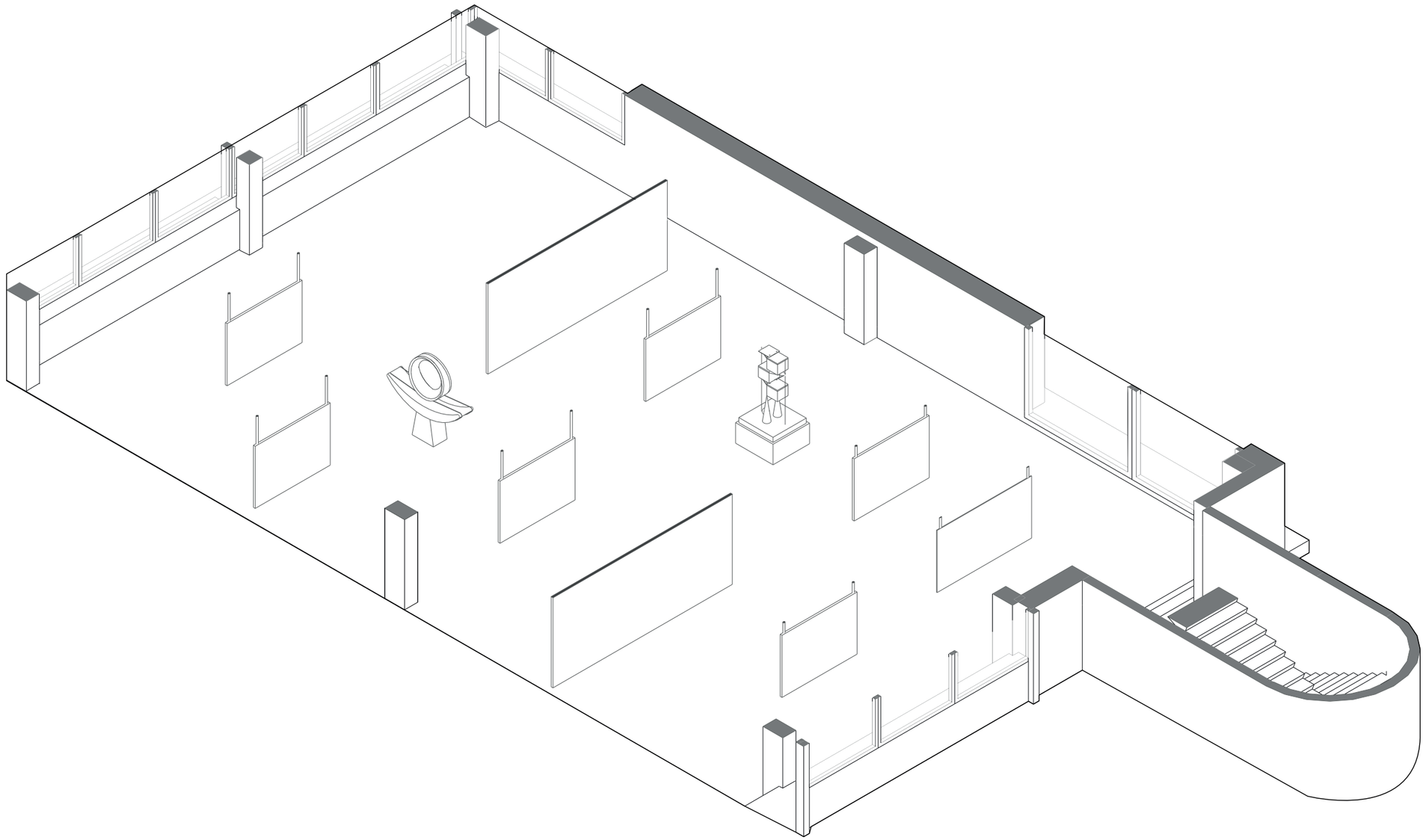
On the second floor there is a larger space for concerts or theatre plays



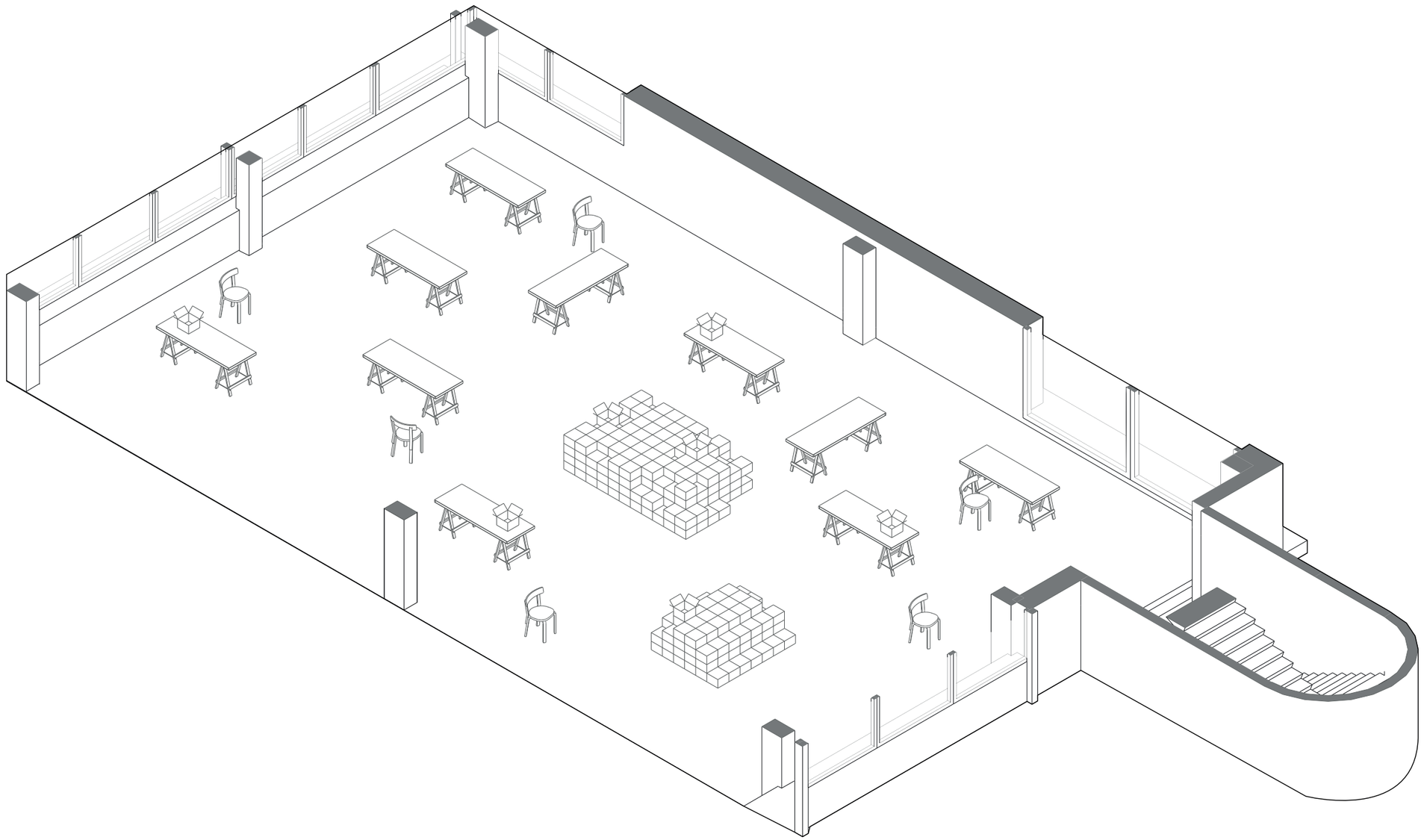
The bigger space as a theatre



The bigger space for a piano play



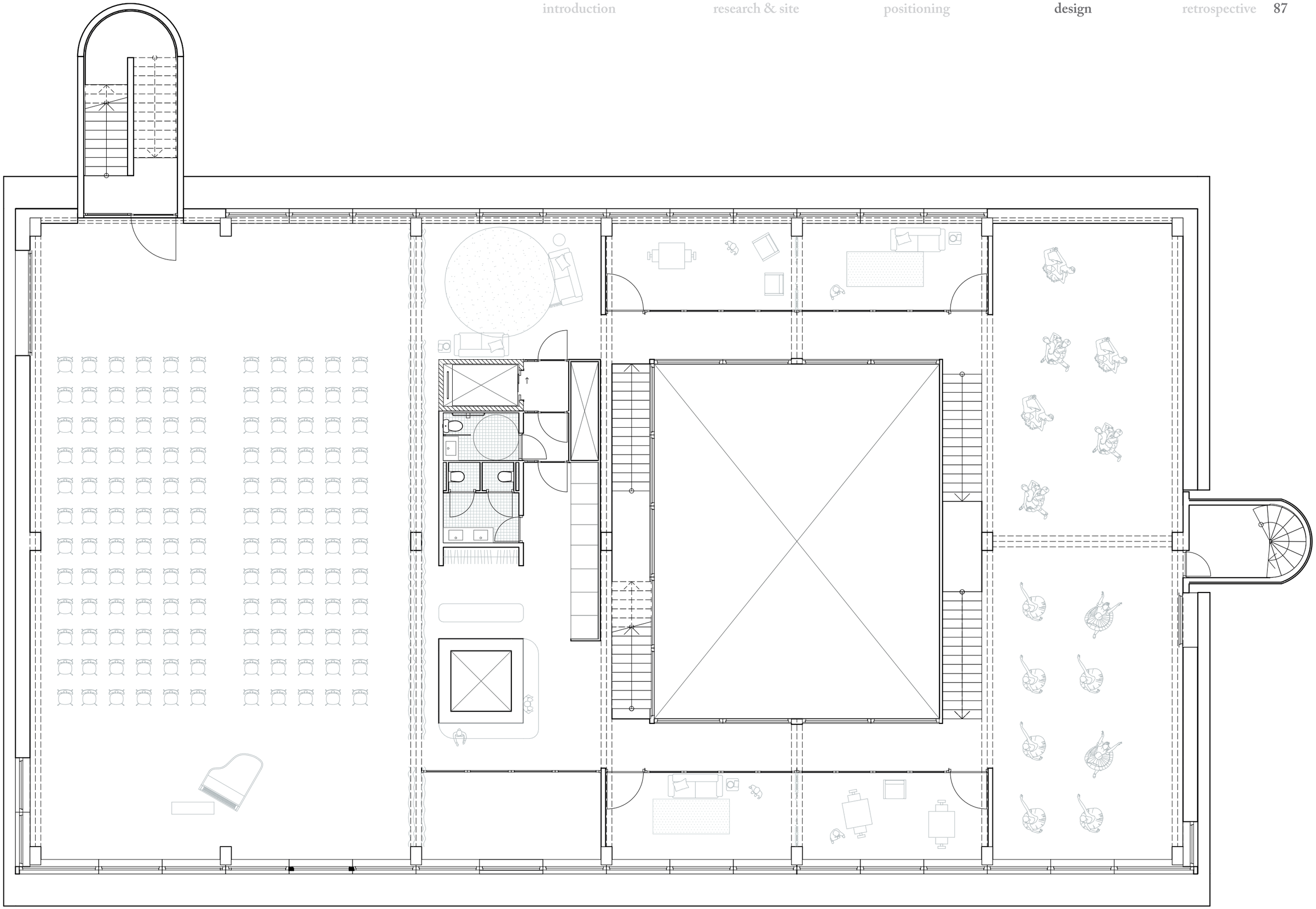
The bigger space as a exhibition space

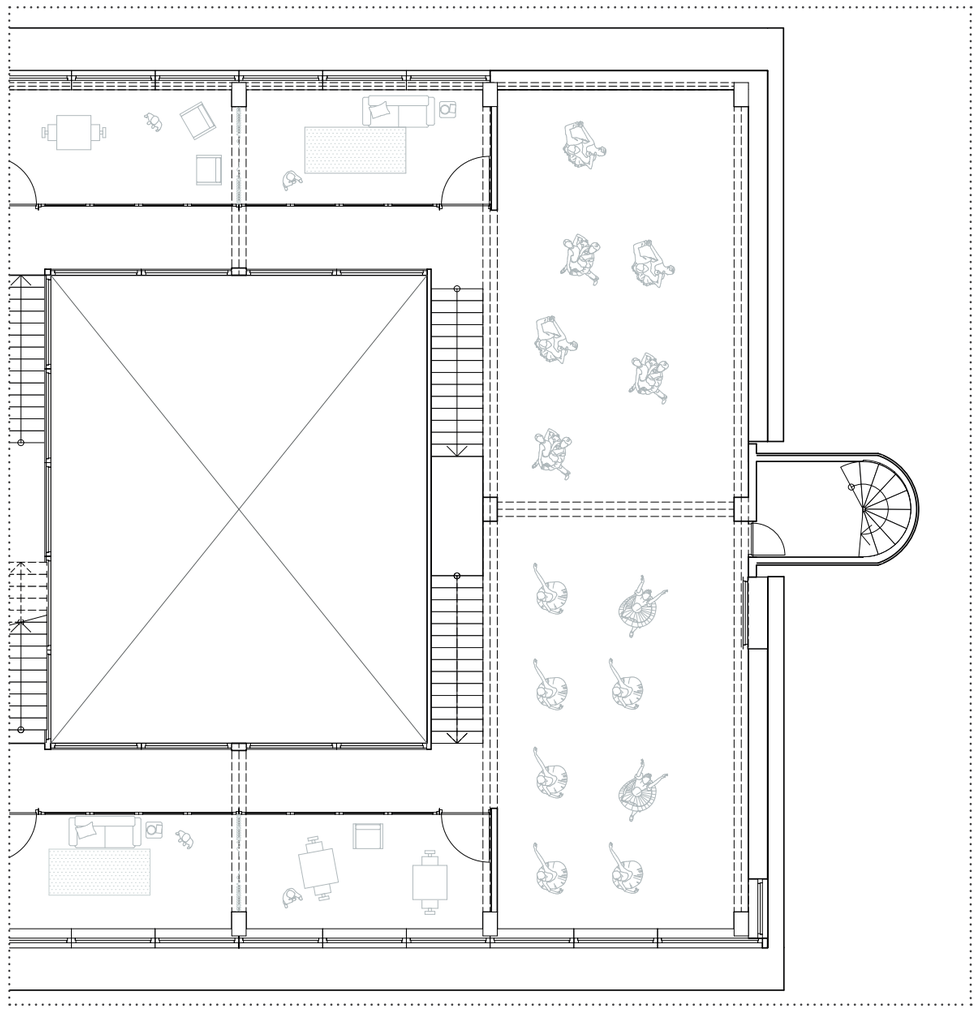


The bigger space as a exhibition space

impression of the bigger space used for a piano play

impression of the bigger space used for a dance performance

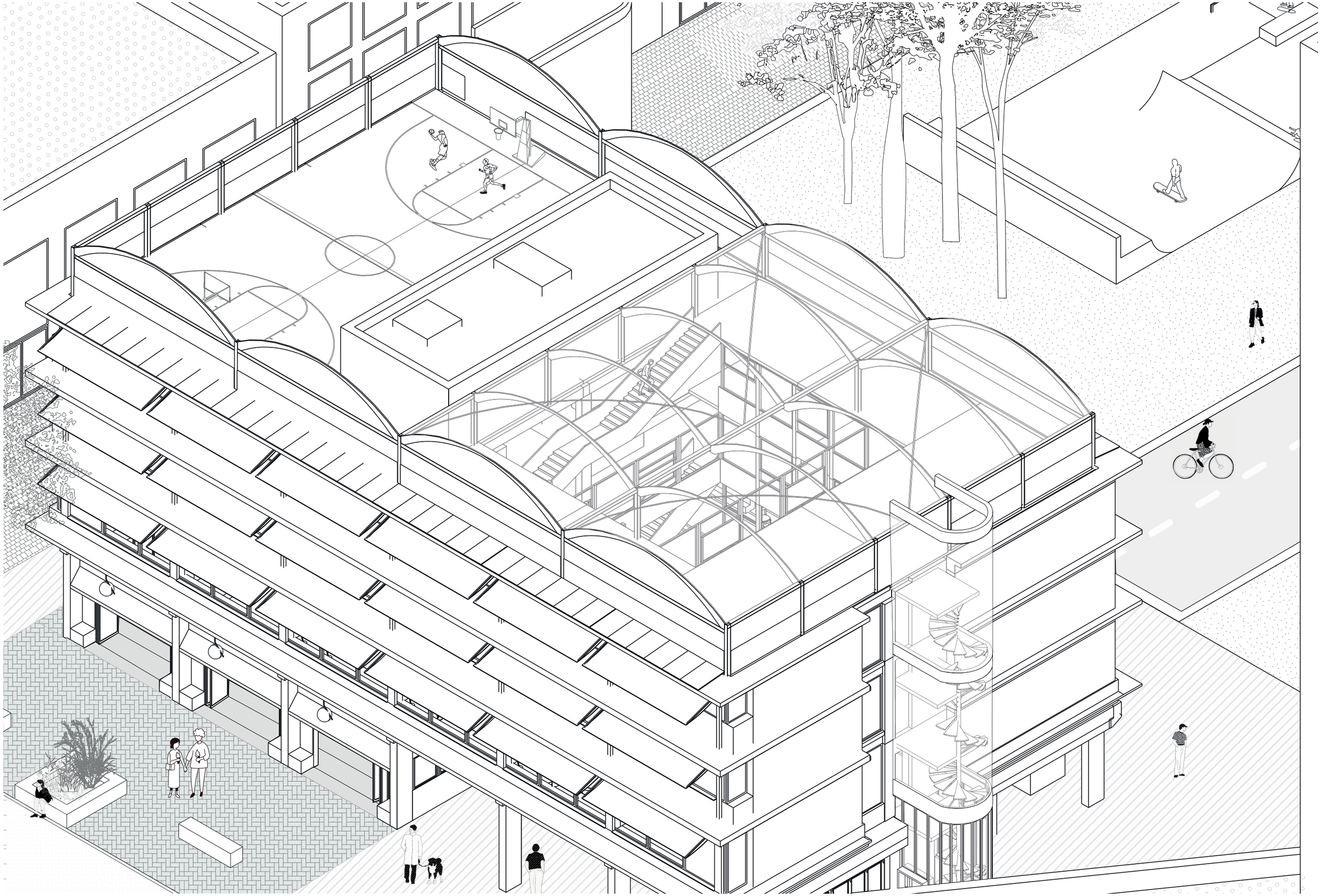




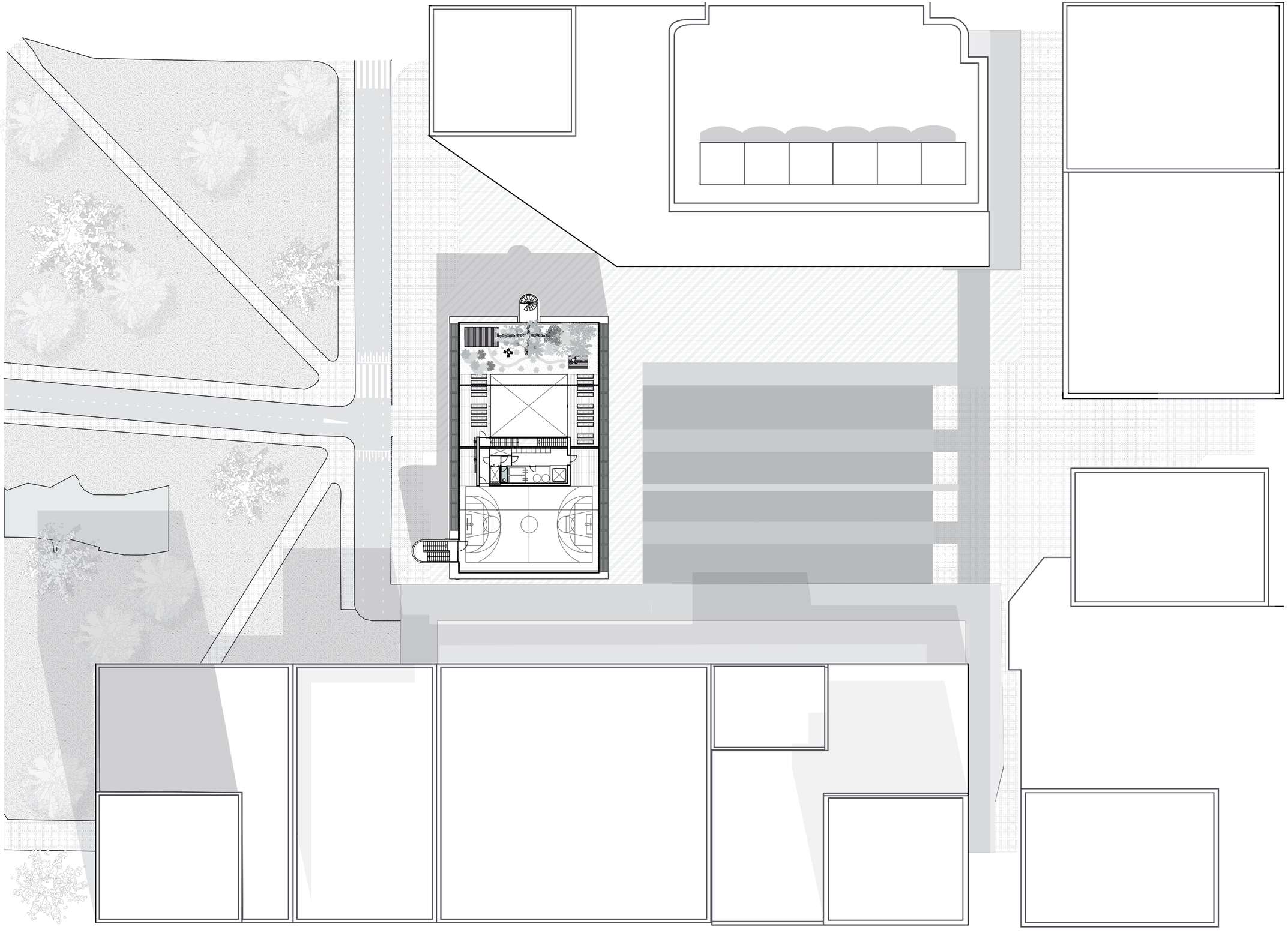
Floorplan of the more intimate spaces

impression of the smaller space used for a neighbourhood meeting

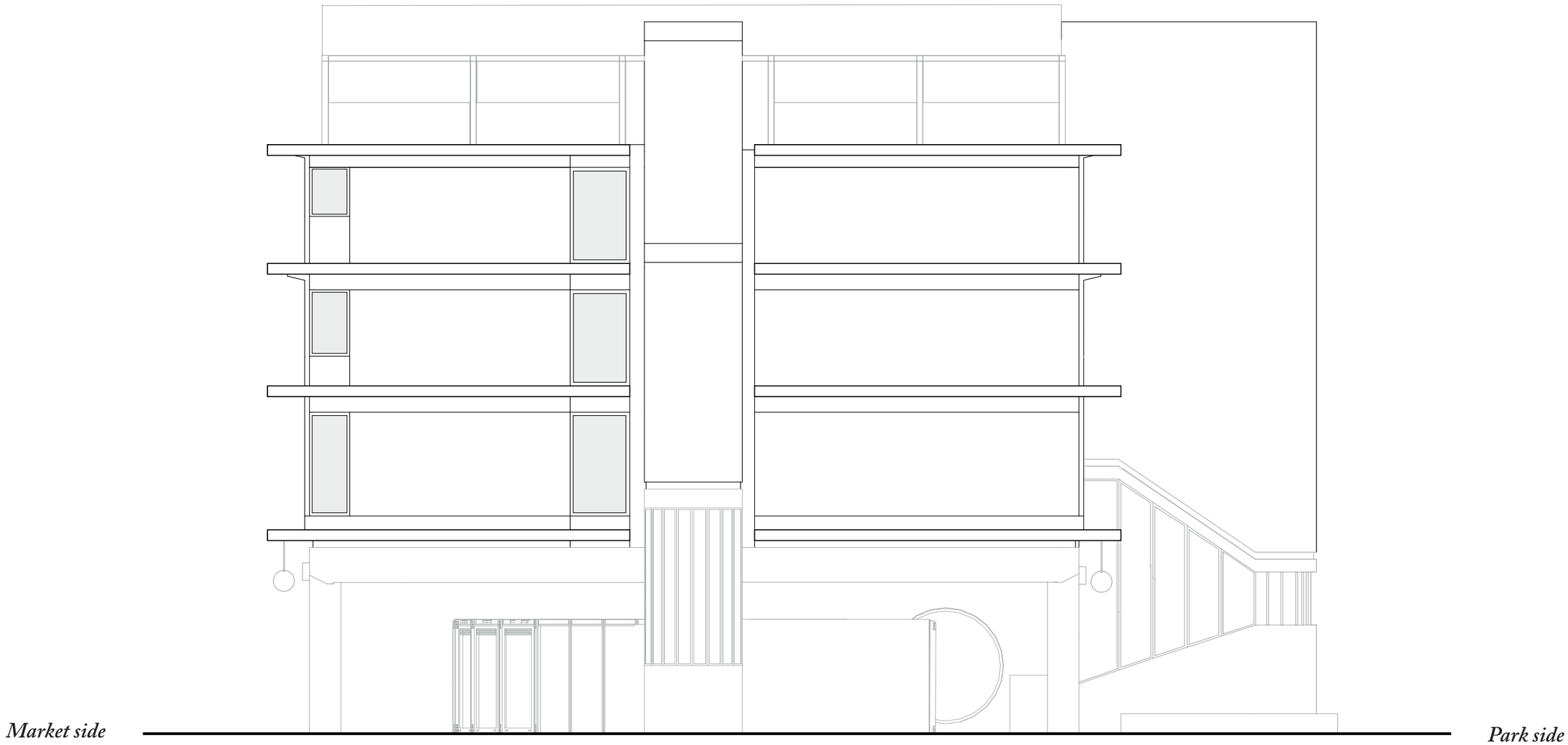
impression of the smaller space used for dance lessons



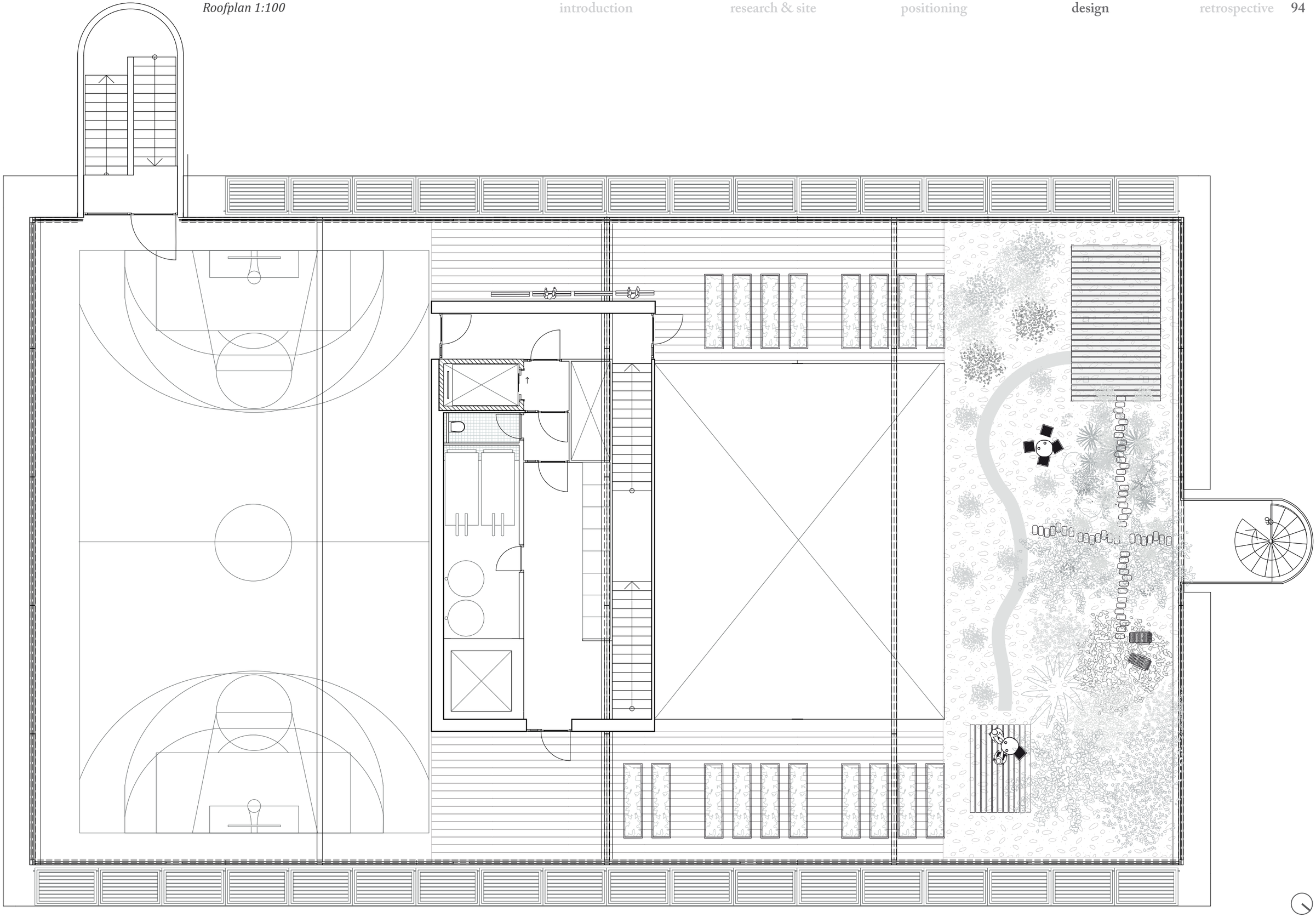
Axonometric of the roof



Roofplan 1:500

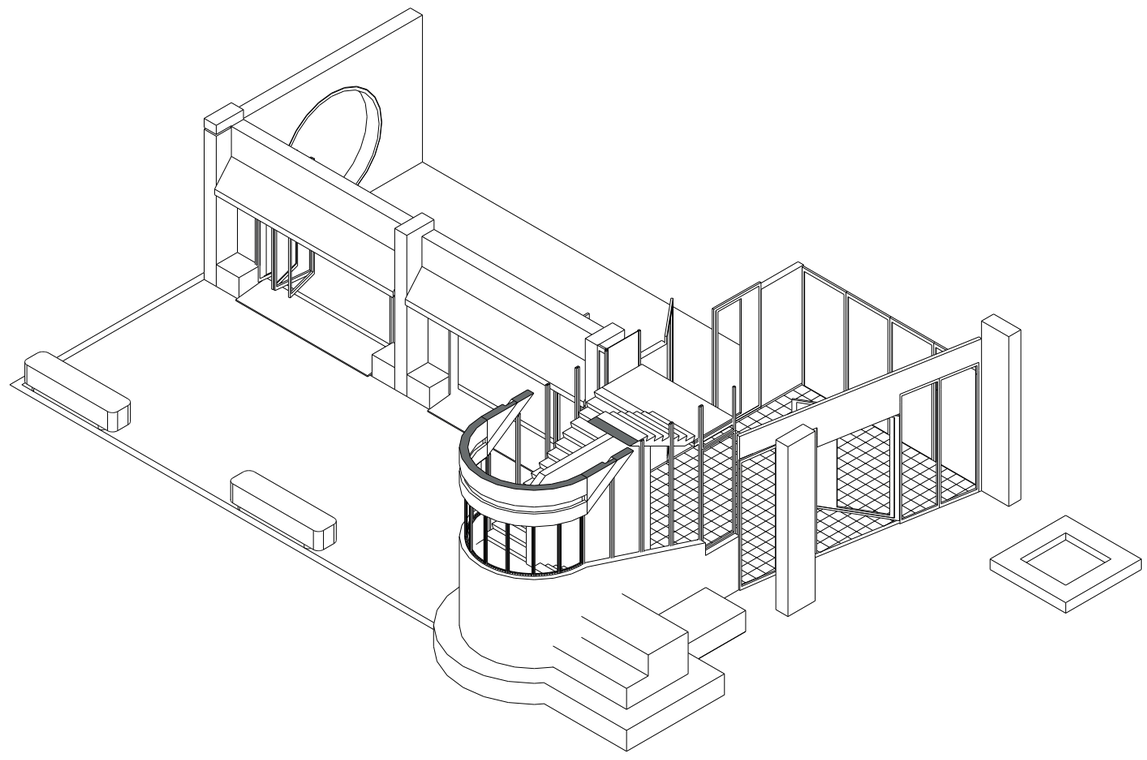


North facade 1:200

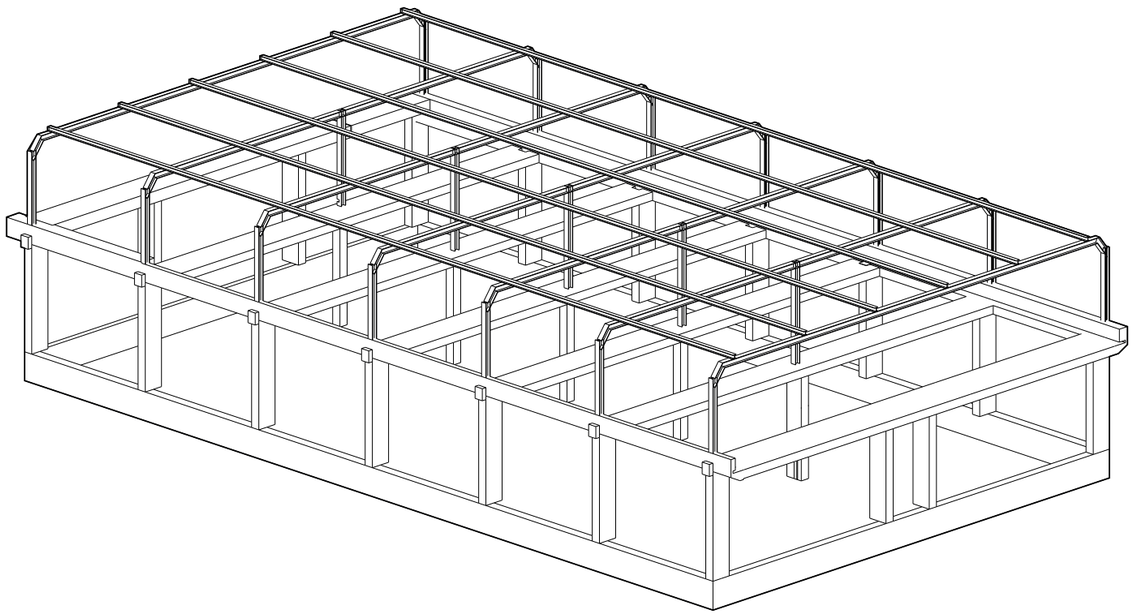


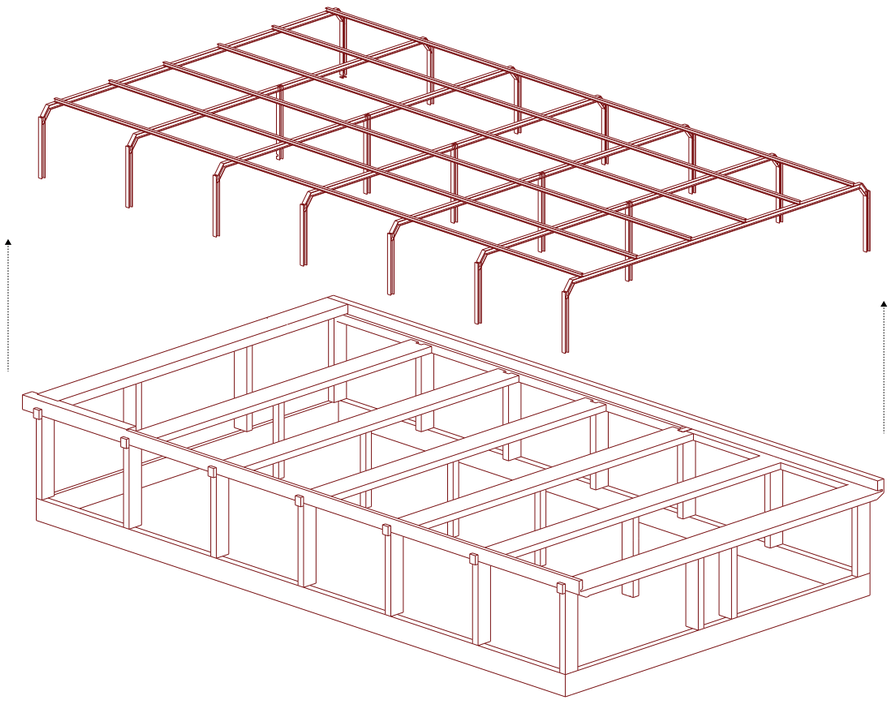
impression of the roof
the basketball court can also be used for movie nights with a view at the highrise towers

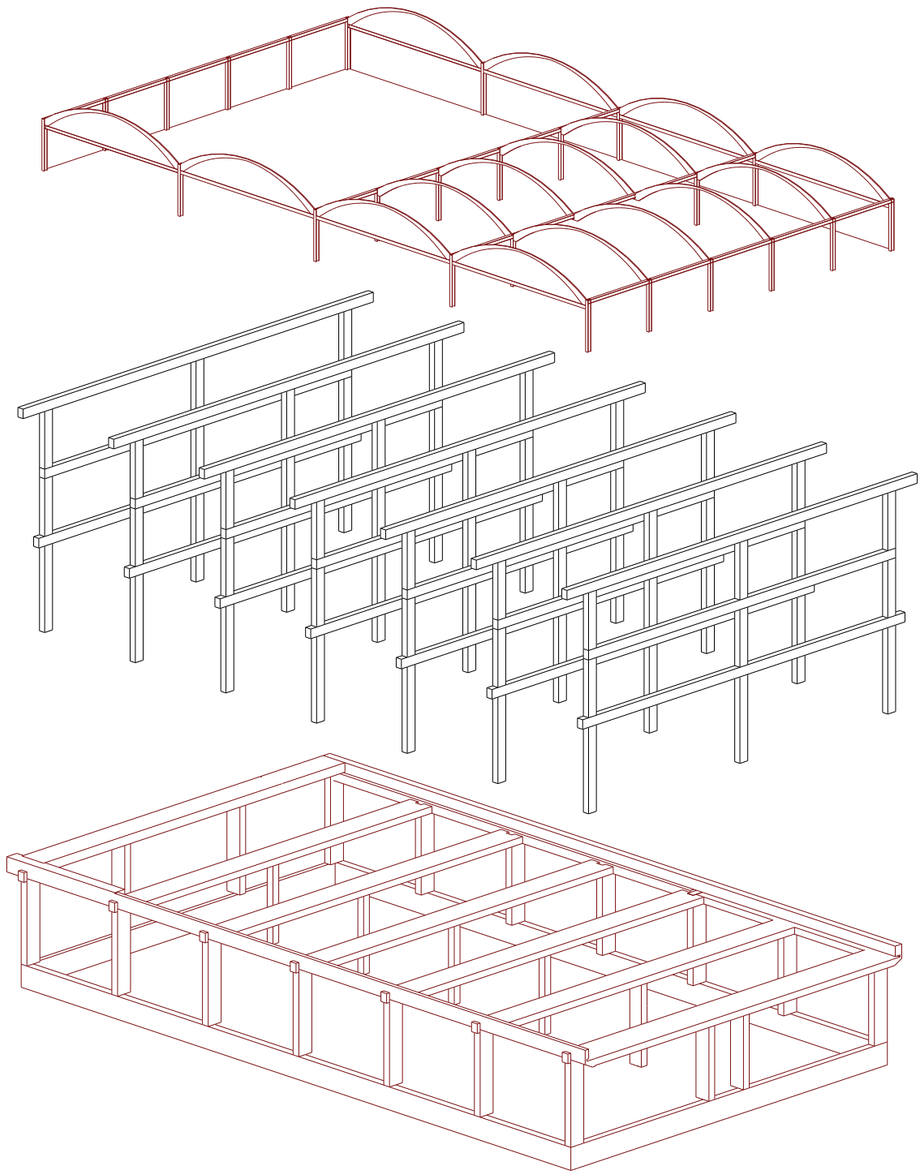
thresholds in materiality and detail



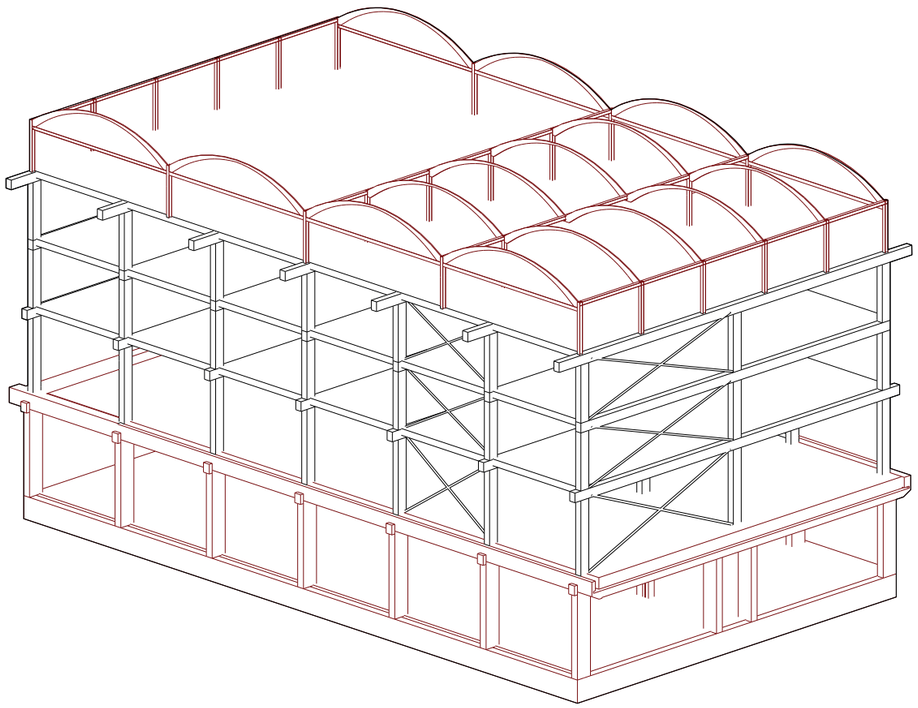
Existing structural scheme



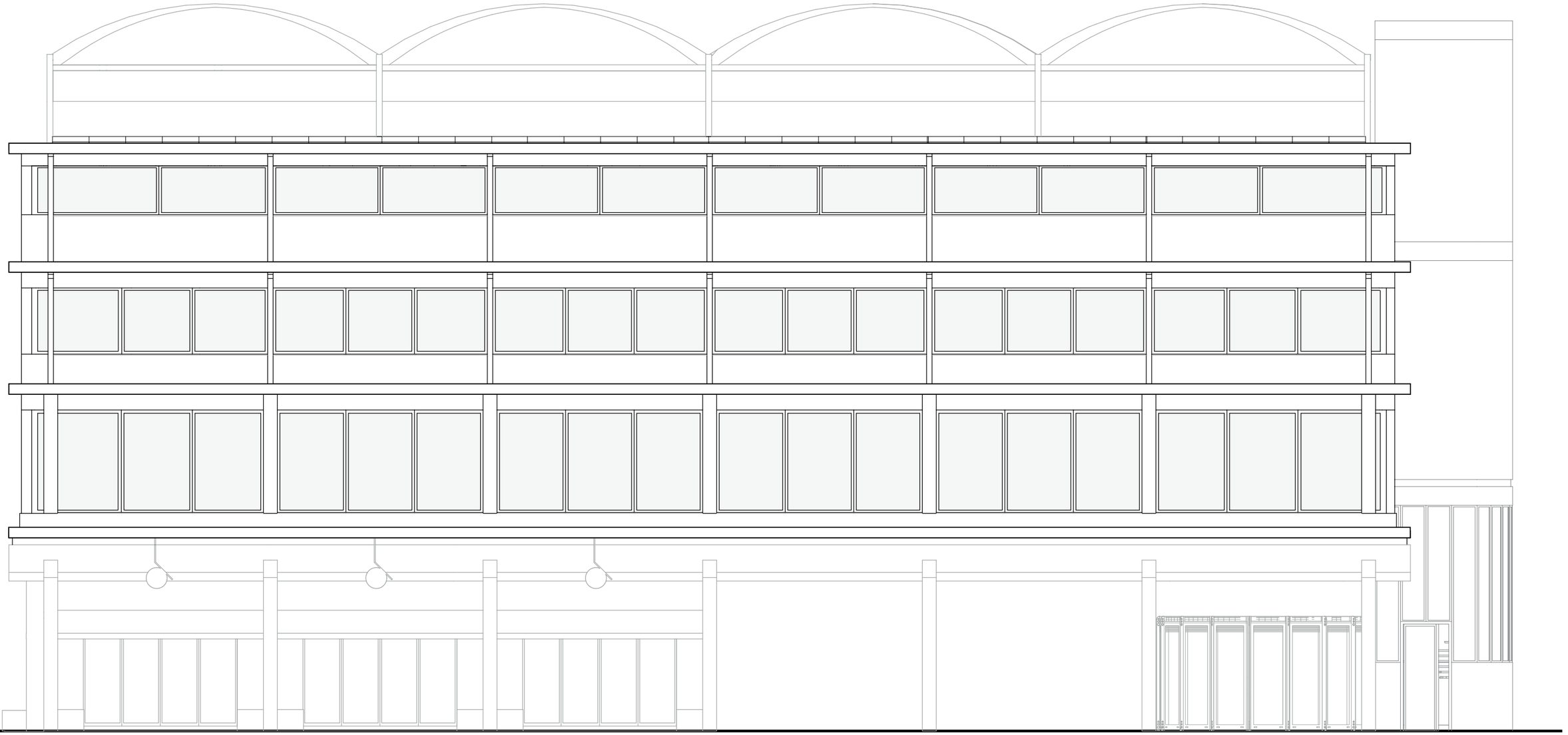




New structural scheme

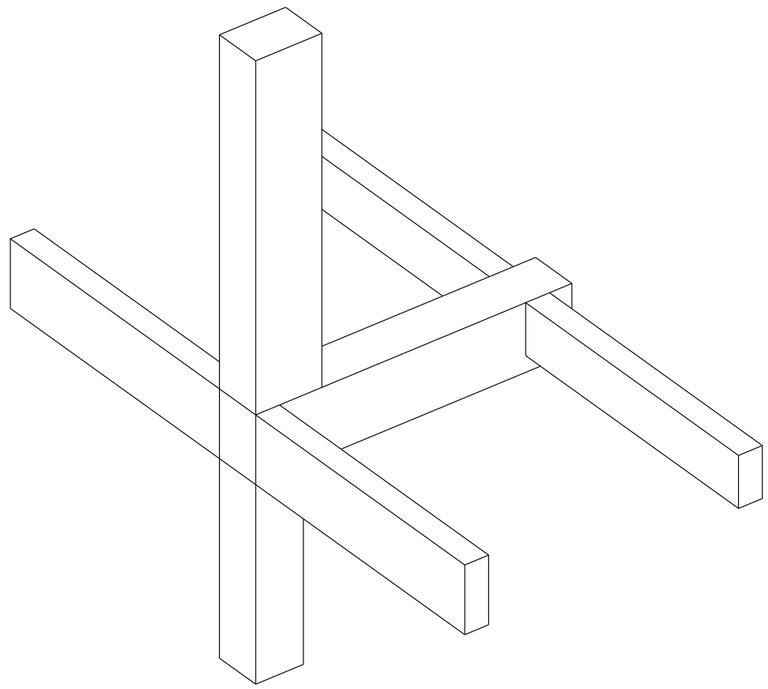


East facade 1:100

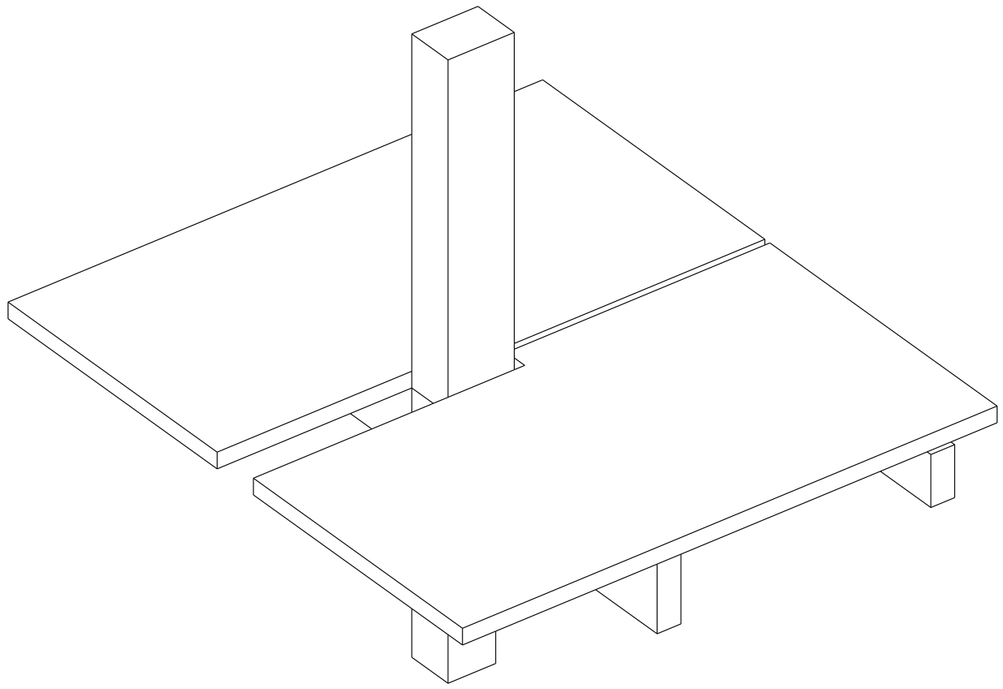


How hempcreteblocks can be used, research by Werkstatt architecten

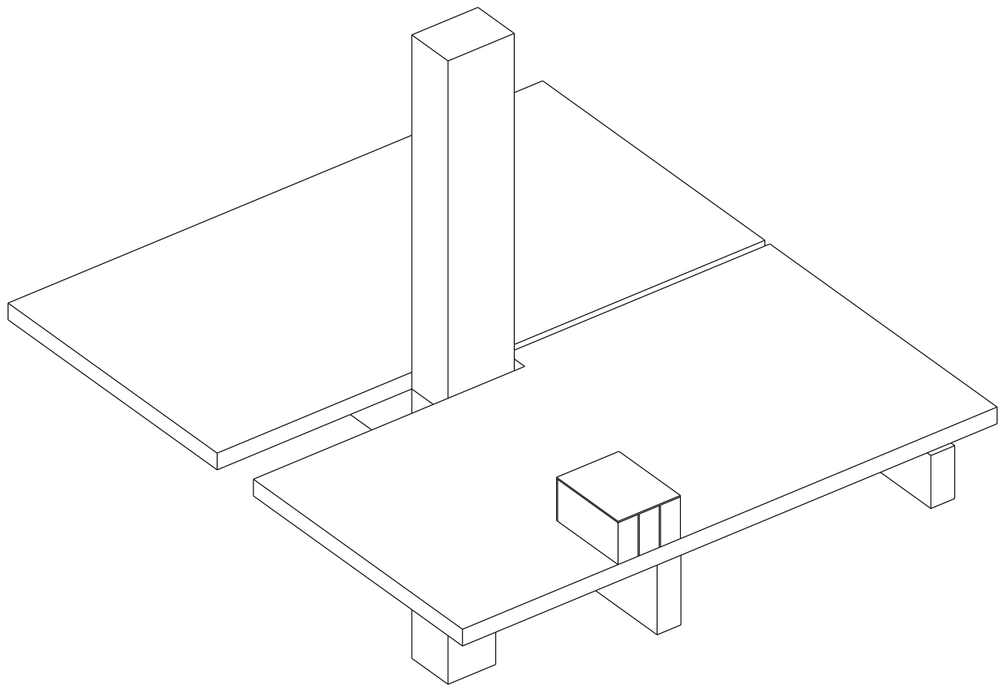
Texture of the hempcrete material finished with a lime plaster so its still breathable



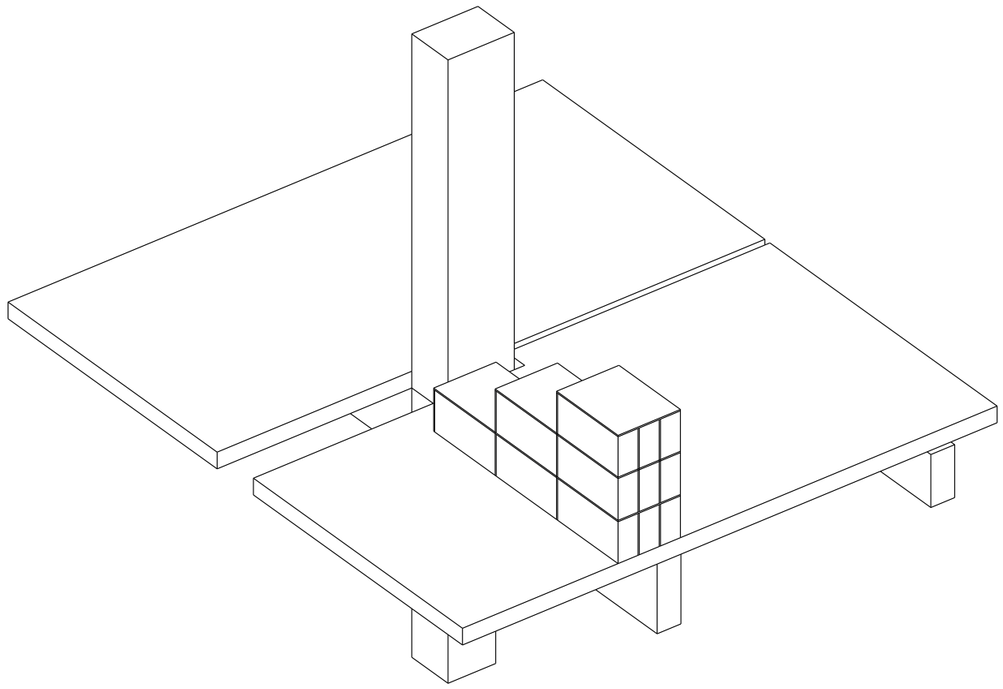
Construction



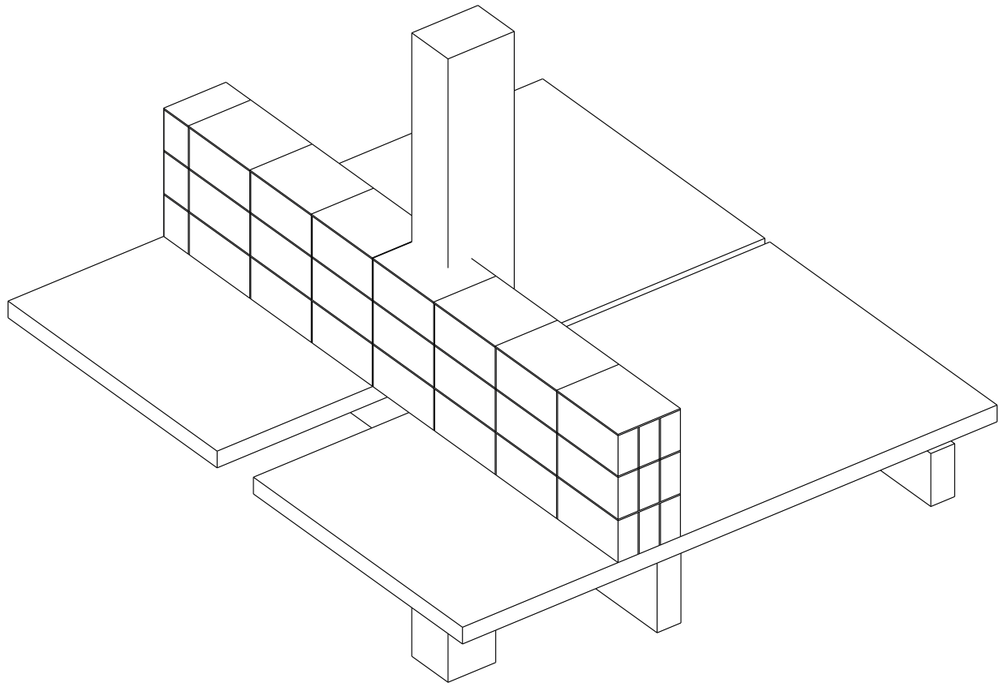
Adding the clt floors upon the construction



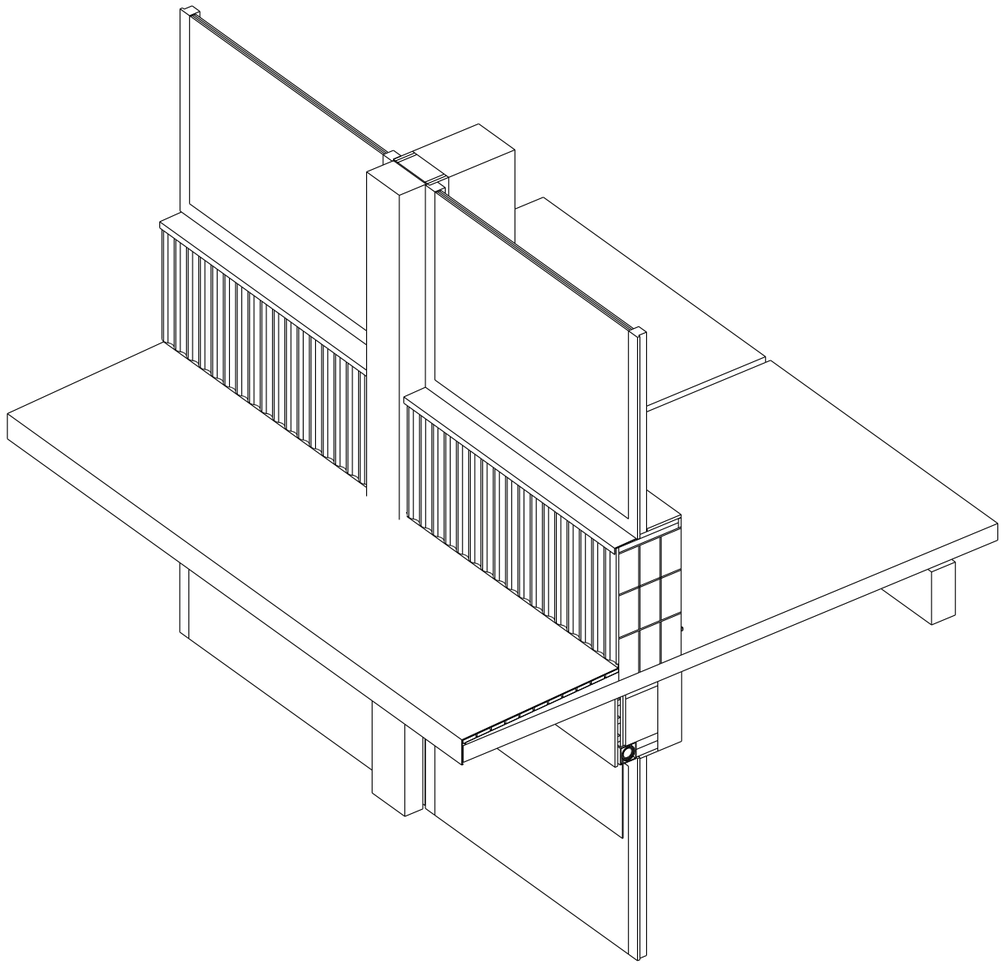
Building the blocks up on the clt flooring



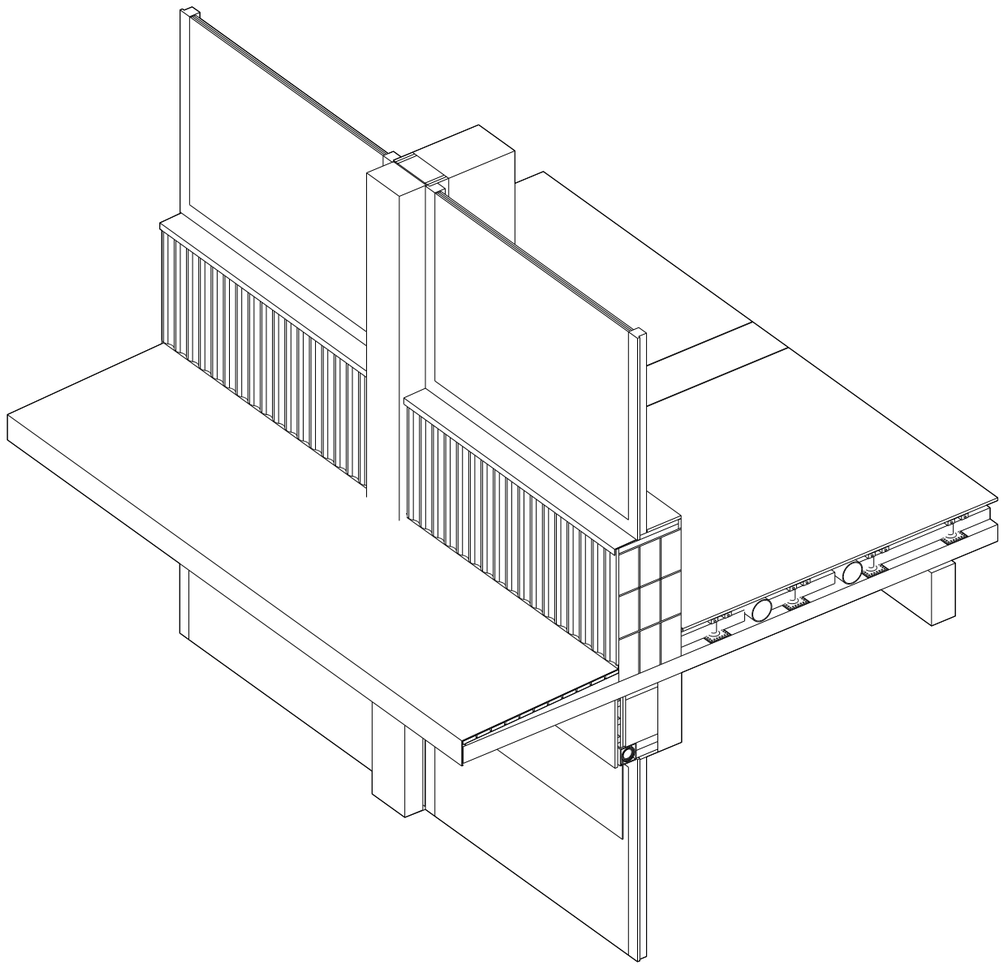
Building the blocks up on the clt flooring



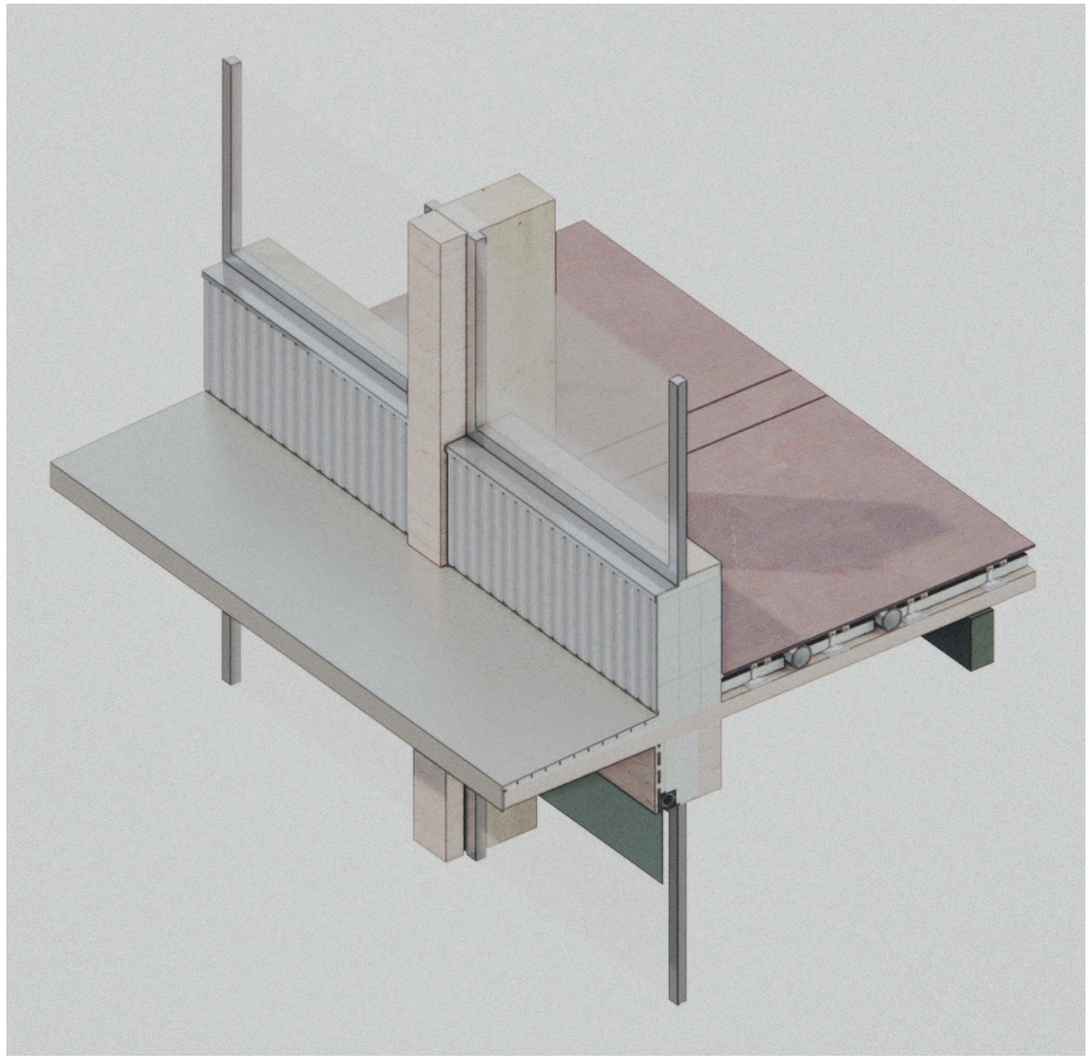
Building the blocks up on the clt flooring



Finishing with window openings and lime plaster

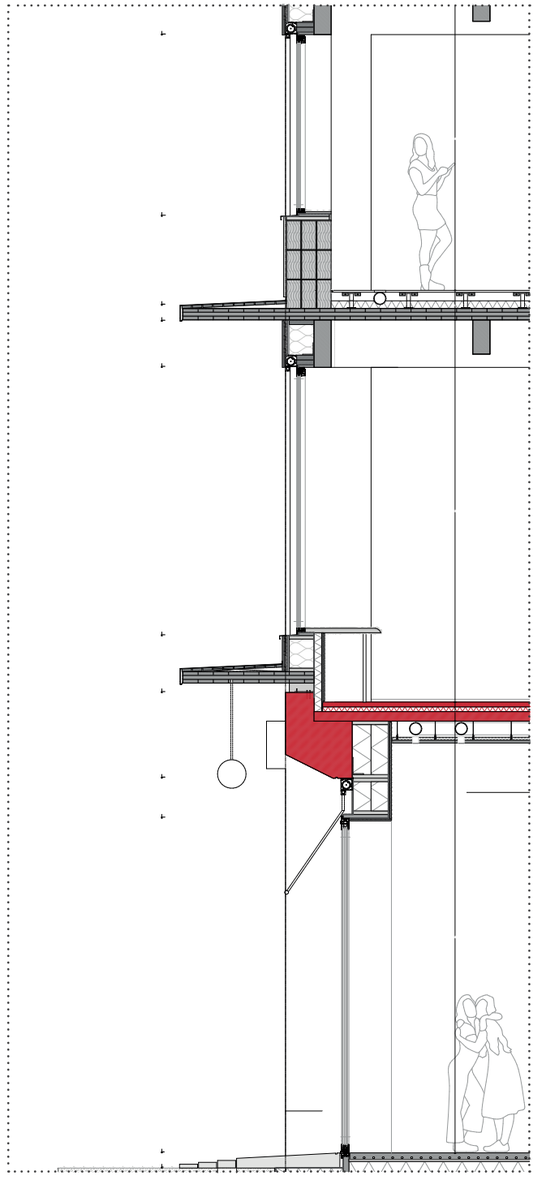


Axonometric drawing of the facade system

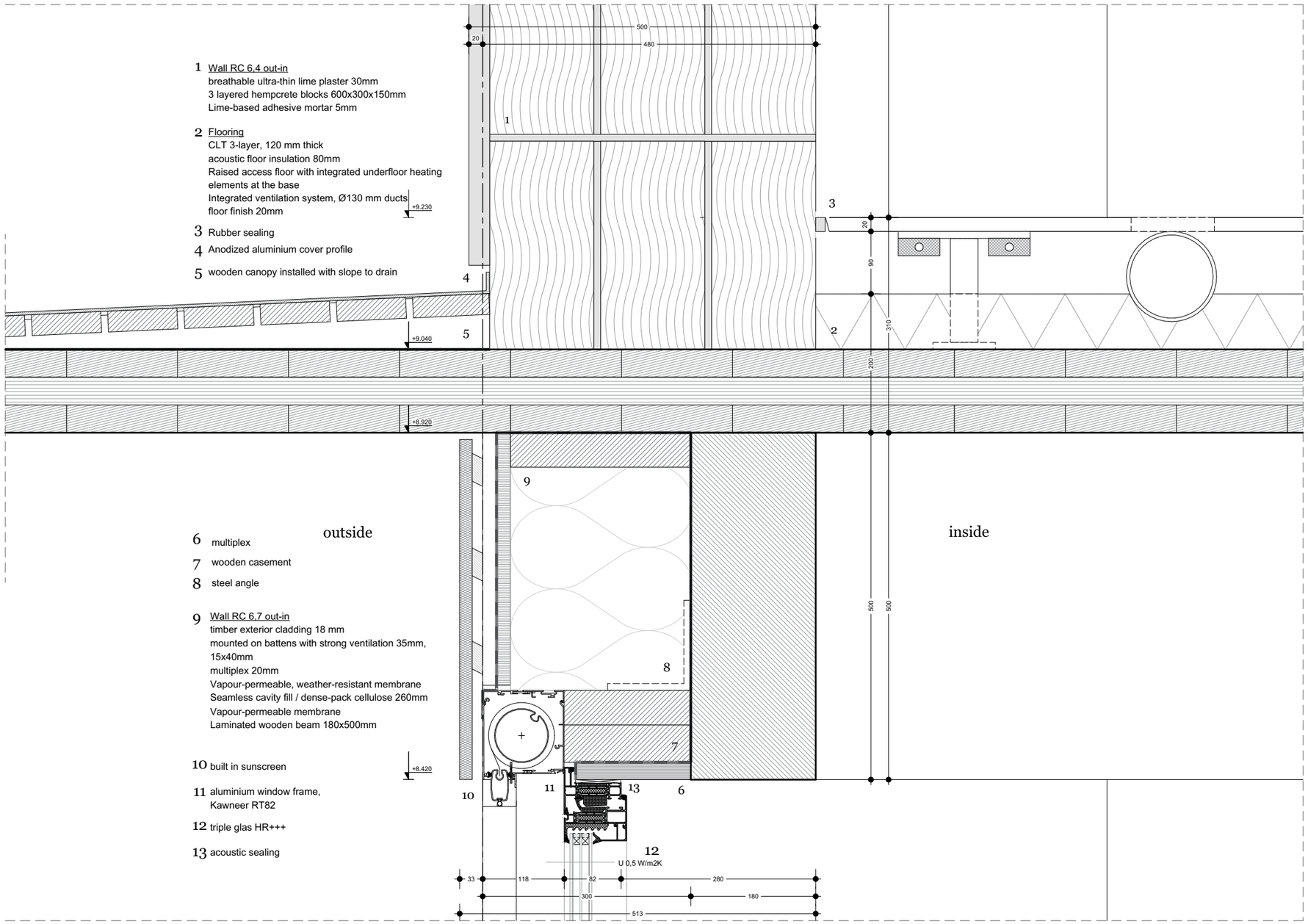


Axonometric view of the facde system with the added materials

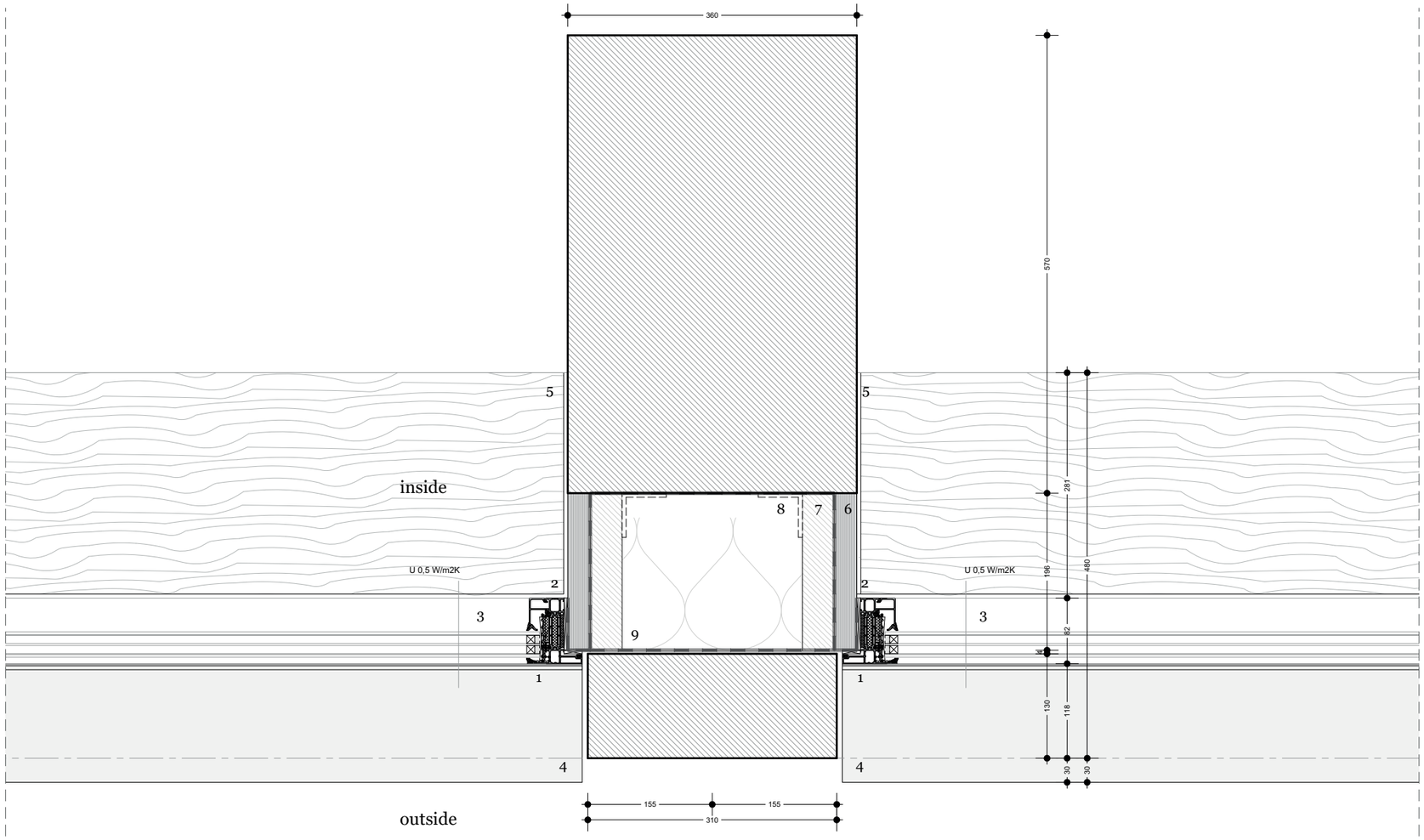
Section fragment facade groundfloor to the second floor



Detail of the overall building system



Details showing the system from first floor to the roof

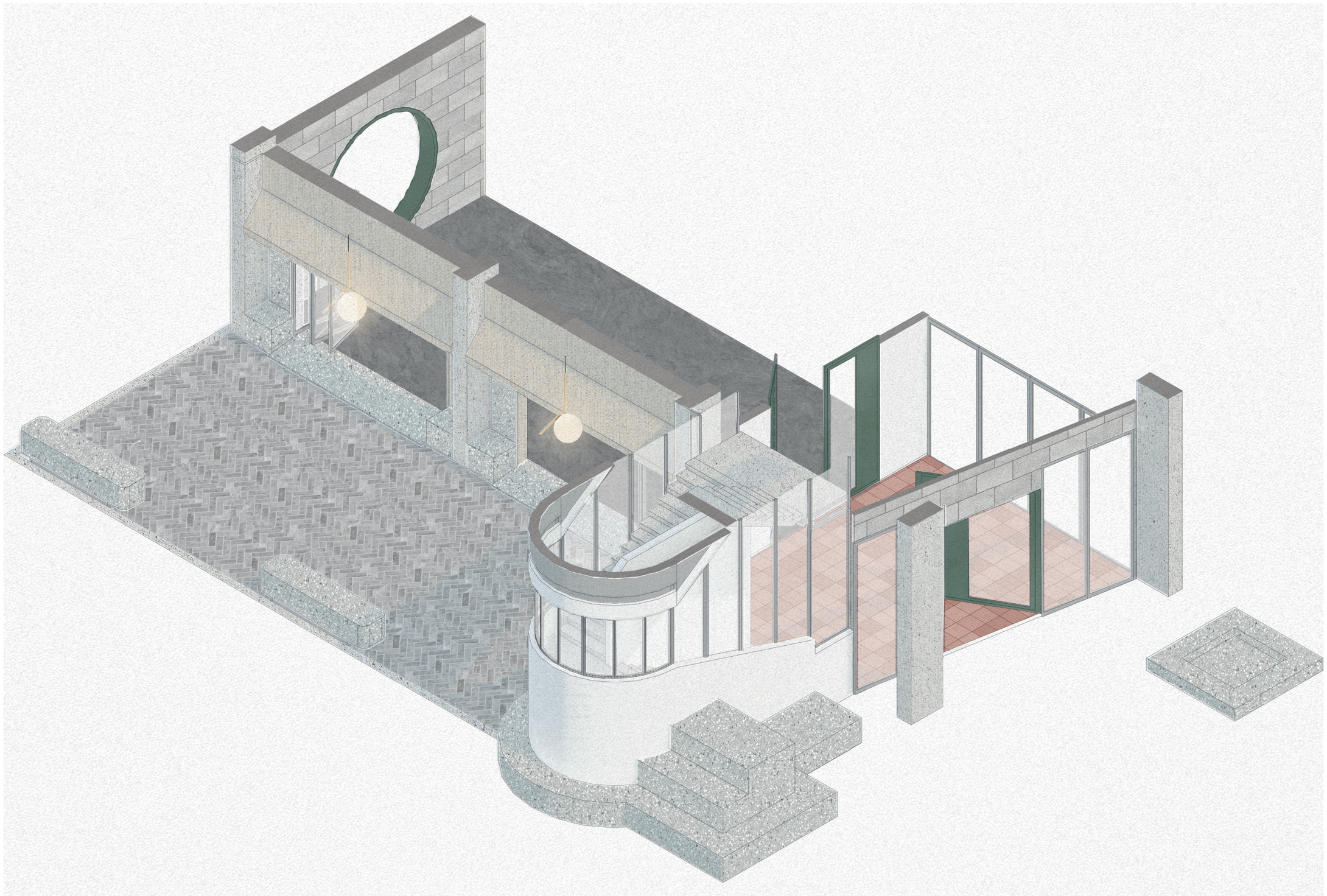


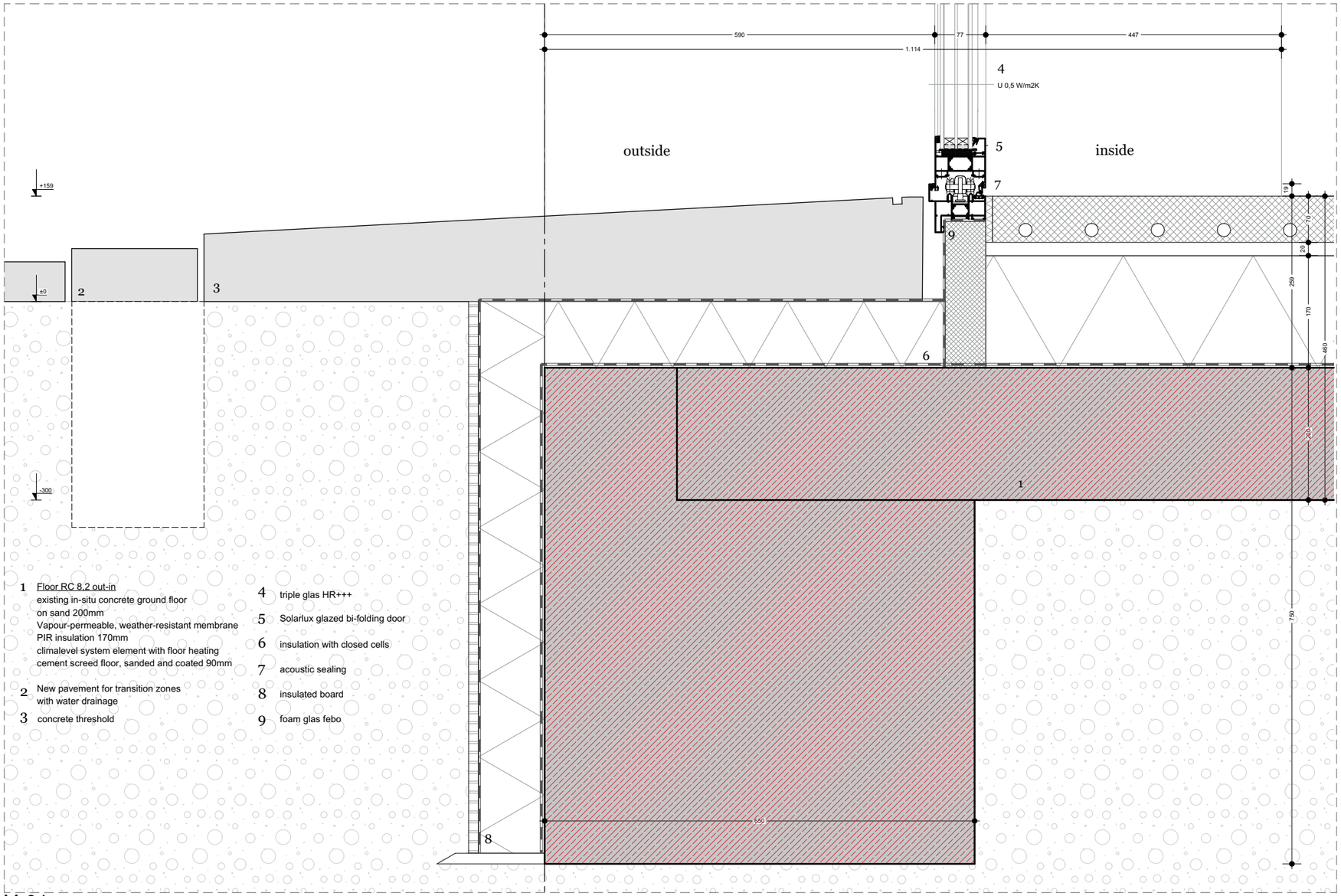
1 aluminium window frame, Kawneer RT82
2 acoustic sealing
3 triple glas HR+++
4 Aluminium window sill
5 wooden window sill
6 multiplex
7 wooden casement
8 steel angle
9 Wall RC 6.7 out-in
wooden column 200mm
Vapour-permeable, weather-resistant membrane
Seamless cavity fill / dense-pack cellulose 260mm
Vapour-permeable membrane
Laminated wooden beam 360x500mm

Horizontal details of the groundfloor and the building system

facade fragment ground floor showing the existing construction detail

facade fragment with a interpertation of the concrete existing detail



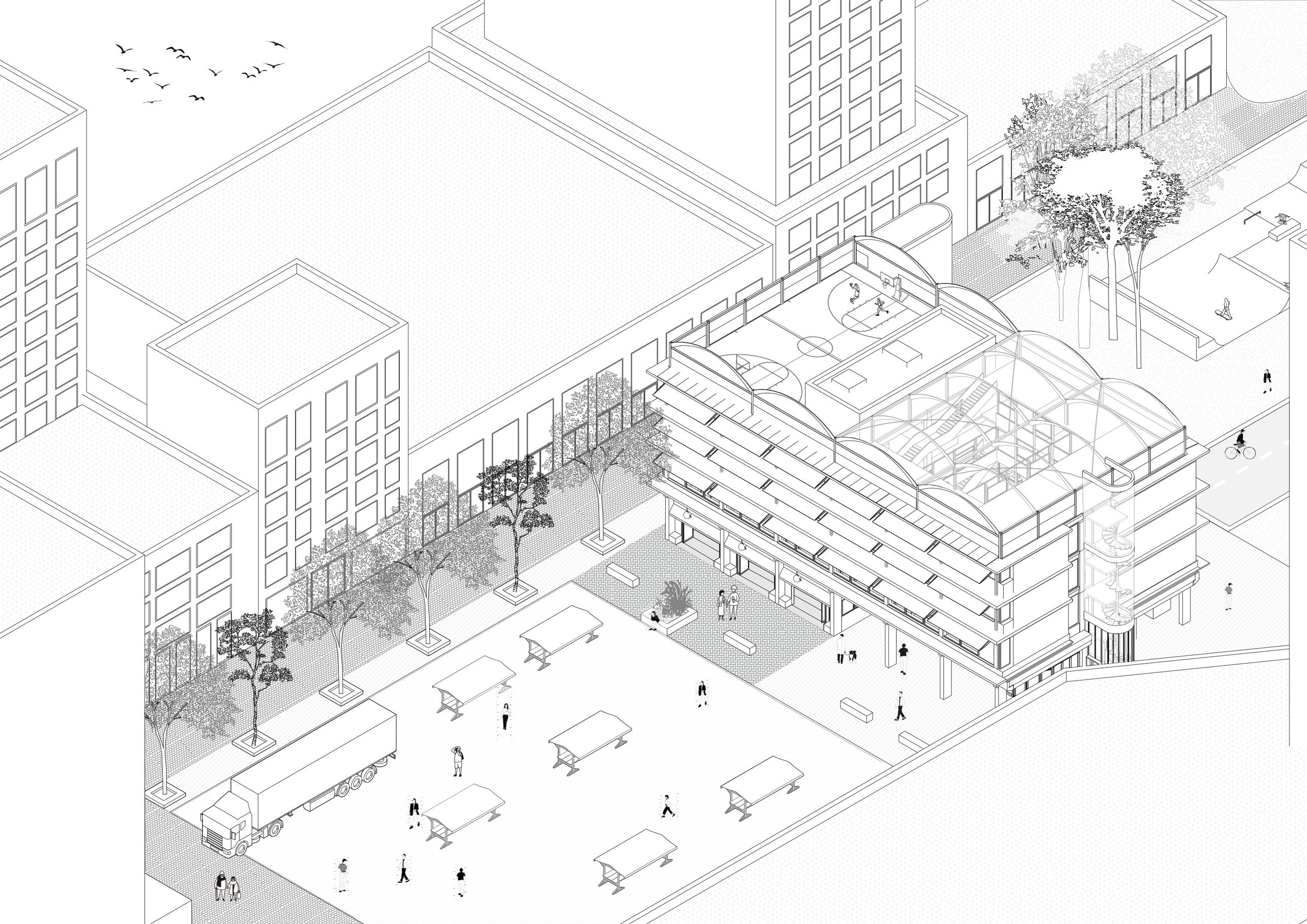


Details ground floor to first floor

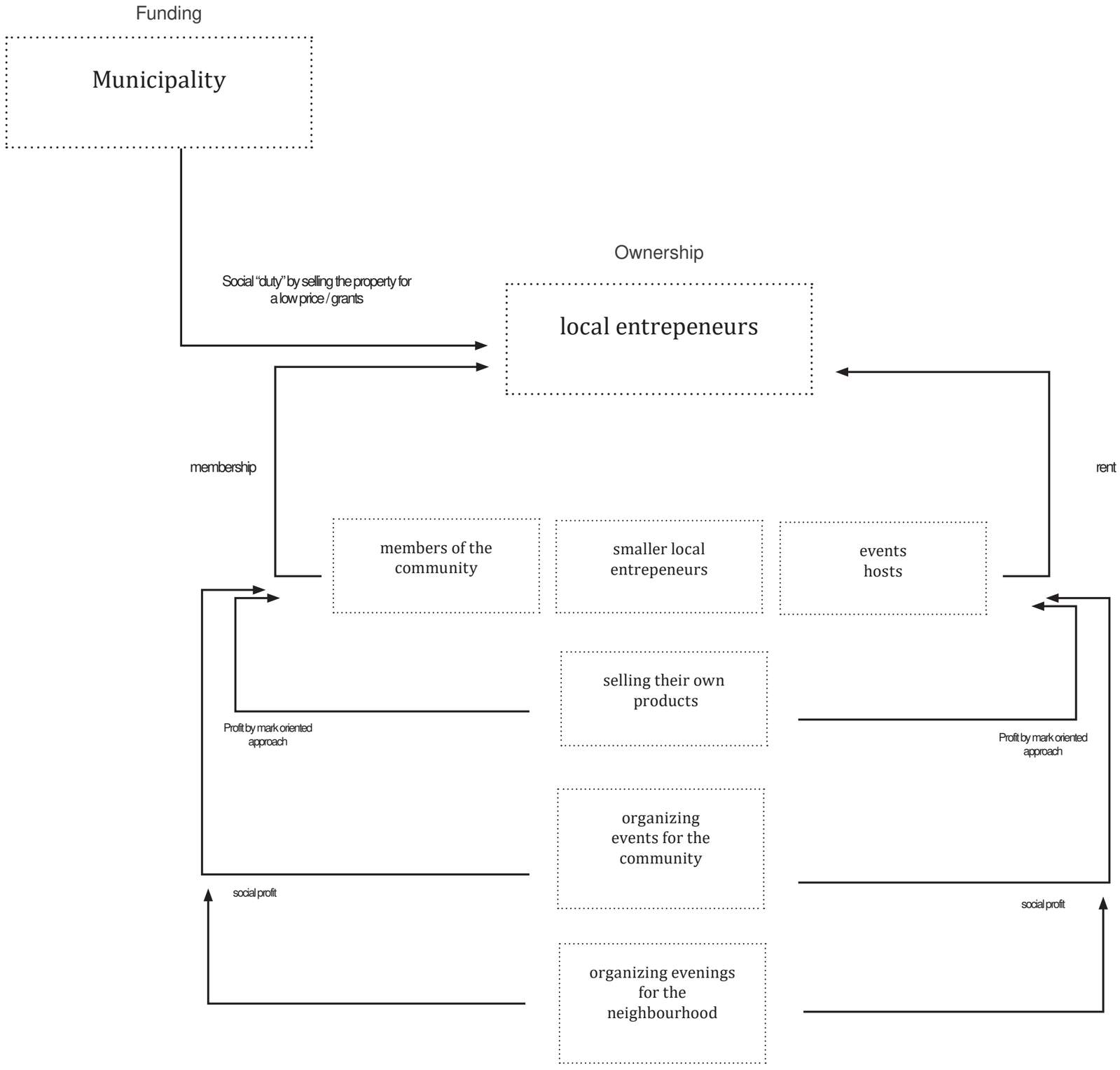
The fireplace serves both as a social element and as a technical component in the building's design

Climate system section BB Winter

5. retrospective



Ownership by financial model



André last owner Bowling

impression of the smaller space used for a neighbourhood meeting

impression of the niche/entrance
It is important to address that the space can also be appropriated by homeless or marginalized people. Nevertheless, they remain highly visible, and the spirit of the times has changed

Thanks!