

THE ARCHITECTURE OF ALTERING

Revealing Molenpoort



Graduation Studio Bricolage
Alessandro de Cadilhac

I. Intruduction

II. Site Size

III. Intentions

IV. Alterations

V. Conclusion

1

INTRODUCTION



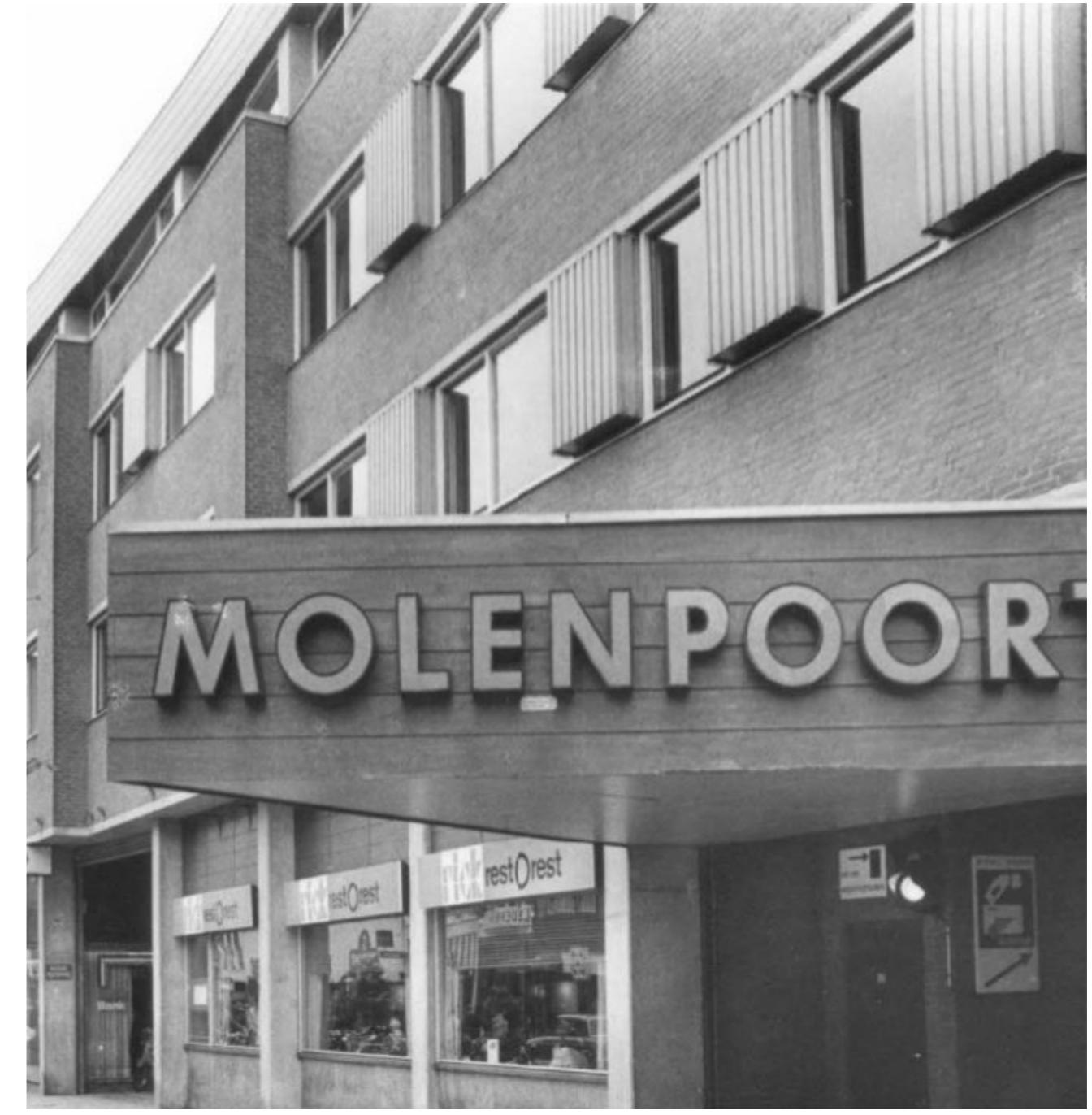
Nijmegen



The site block



The mall





Polish music band at Molenpoort

Buitenaarders in beeld

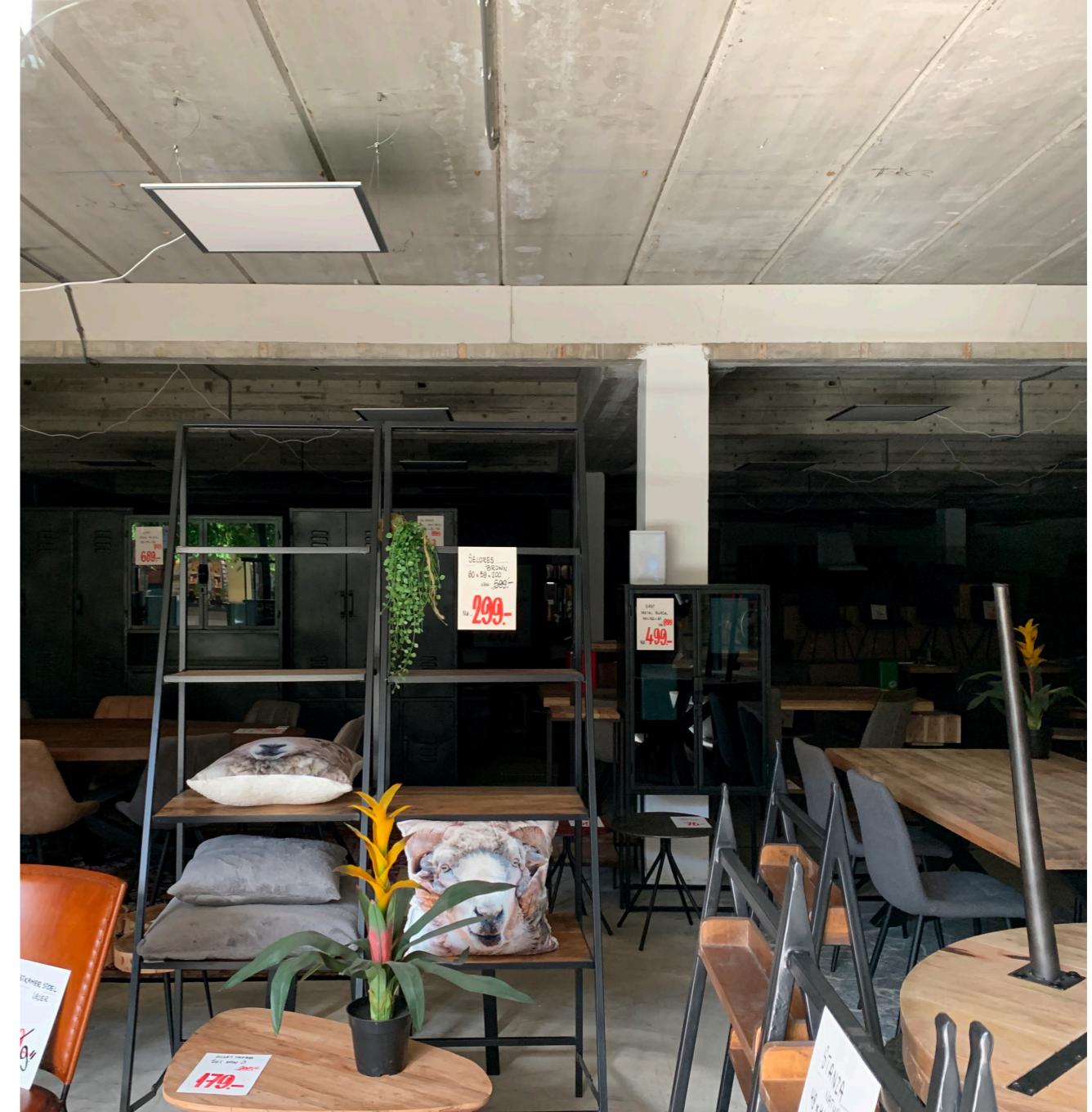
Een fototentoonstelling over het leven, leren, wonen en werken van buitenlanders in Nijmegen
Nijmegen'deki yabancıların yaşantıları, eğitim, konut ve iş sorunları hakkında bir fotoğraf sergisi
"Strani radnici u slici" izložba o životu, školovanju, stanovanju i radu stranih radnika u Nijmegenu
معرض حول الحياة، التعليم، السكن و العمل دعاوى الأجانب في مدينة نيمخن

6 mei t/m 30 mei in Passage
OPEN HUIS Molenpoort 16
Nijmegen

Photographic exhibition at Molenpoort

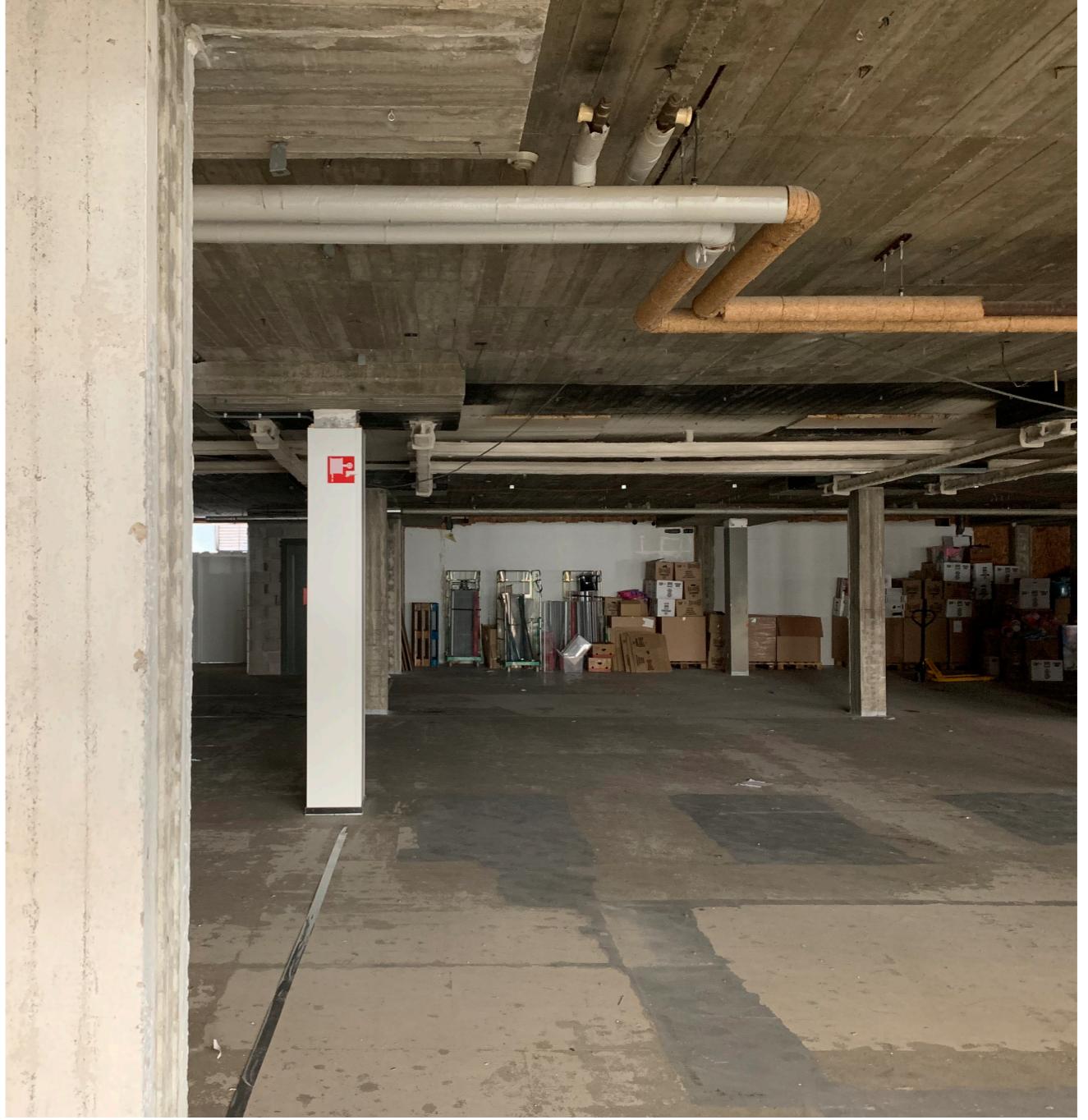


Current state



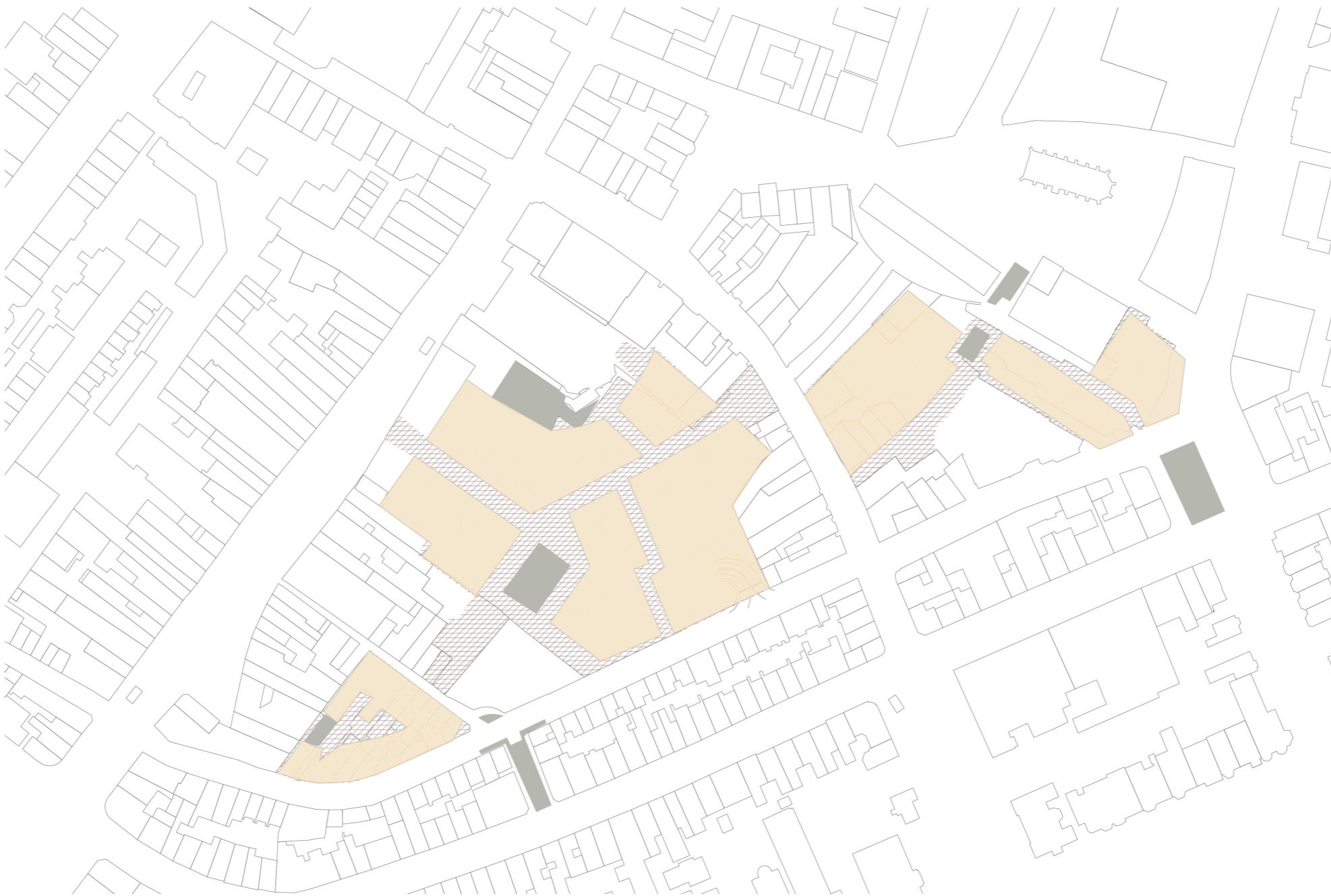


Current state





Demolition



Municipality proposal



Municipality proposal

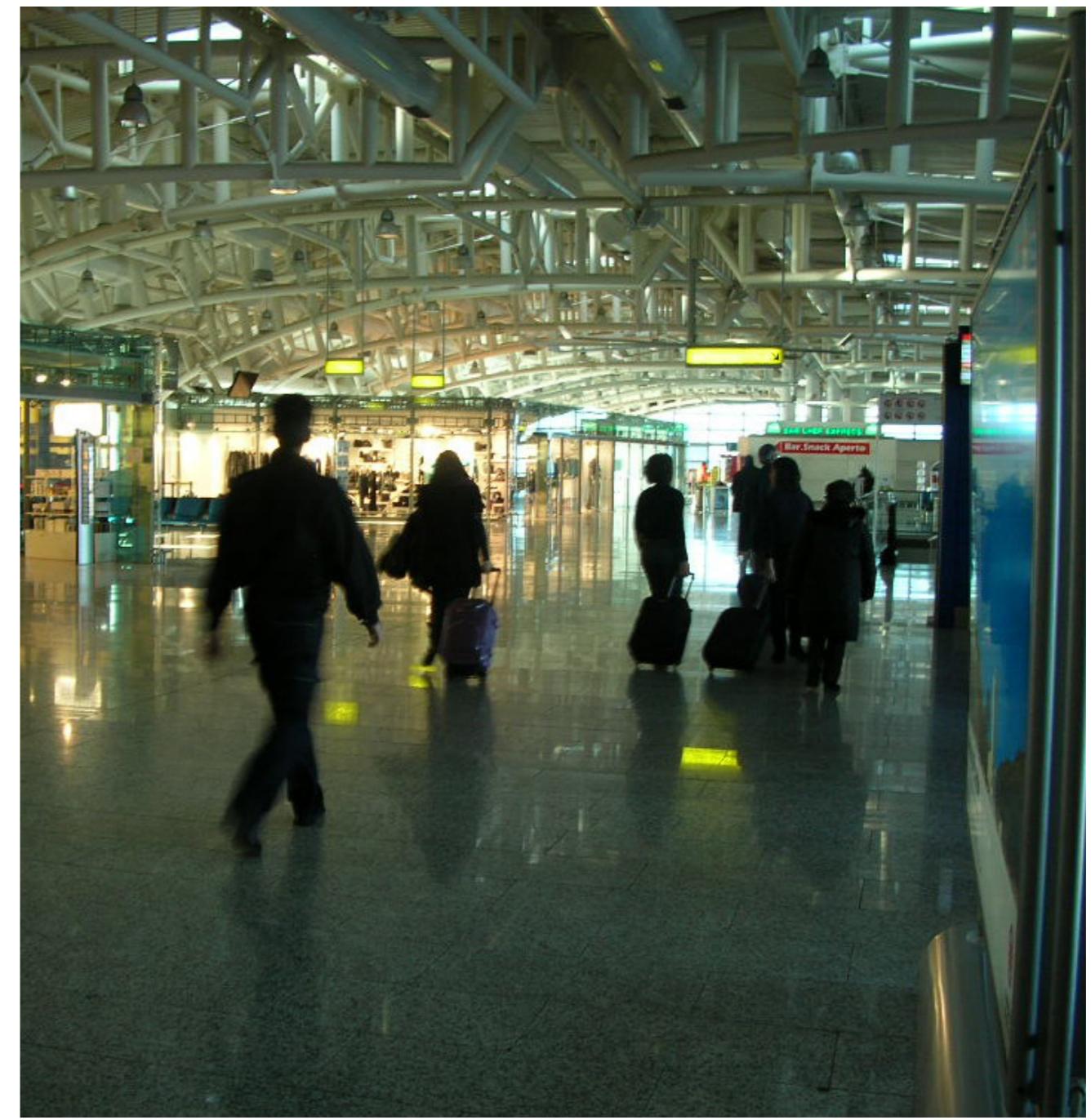
Demolition

Fragmentation

Privatization



Interior of the Letzpark Shopping Centre, Zürich



Cagliari, Elmas Airport



Are these places valuable? How can these places offer a spatial quality within the city?



Giuseppe Penone

2

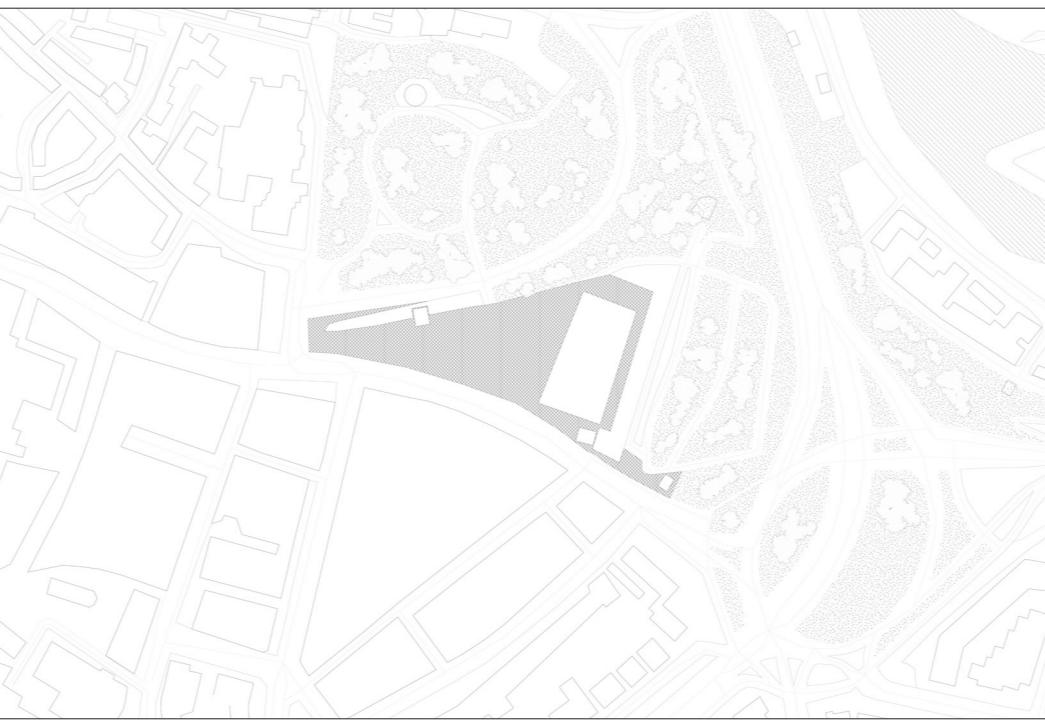
THE SITE



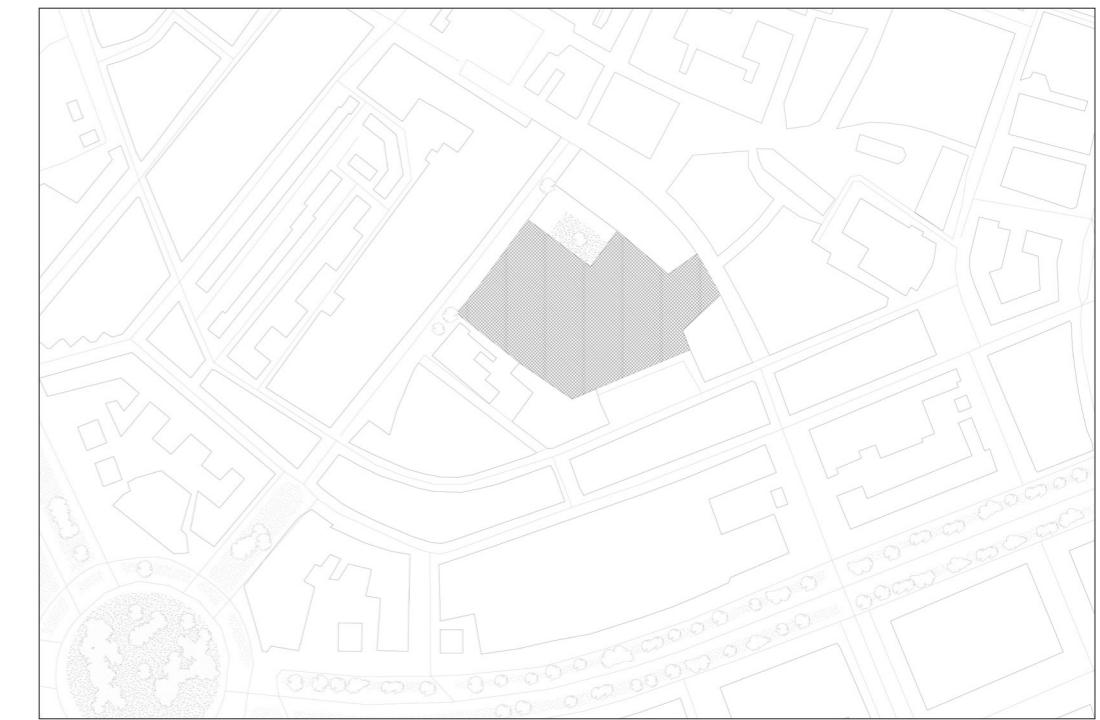
Comparison with public squares



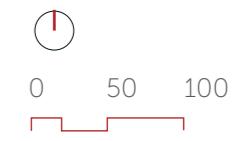
Wedren

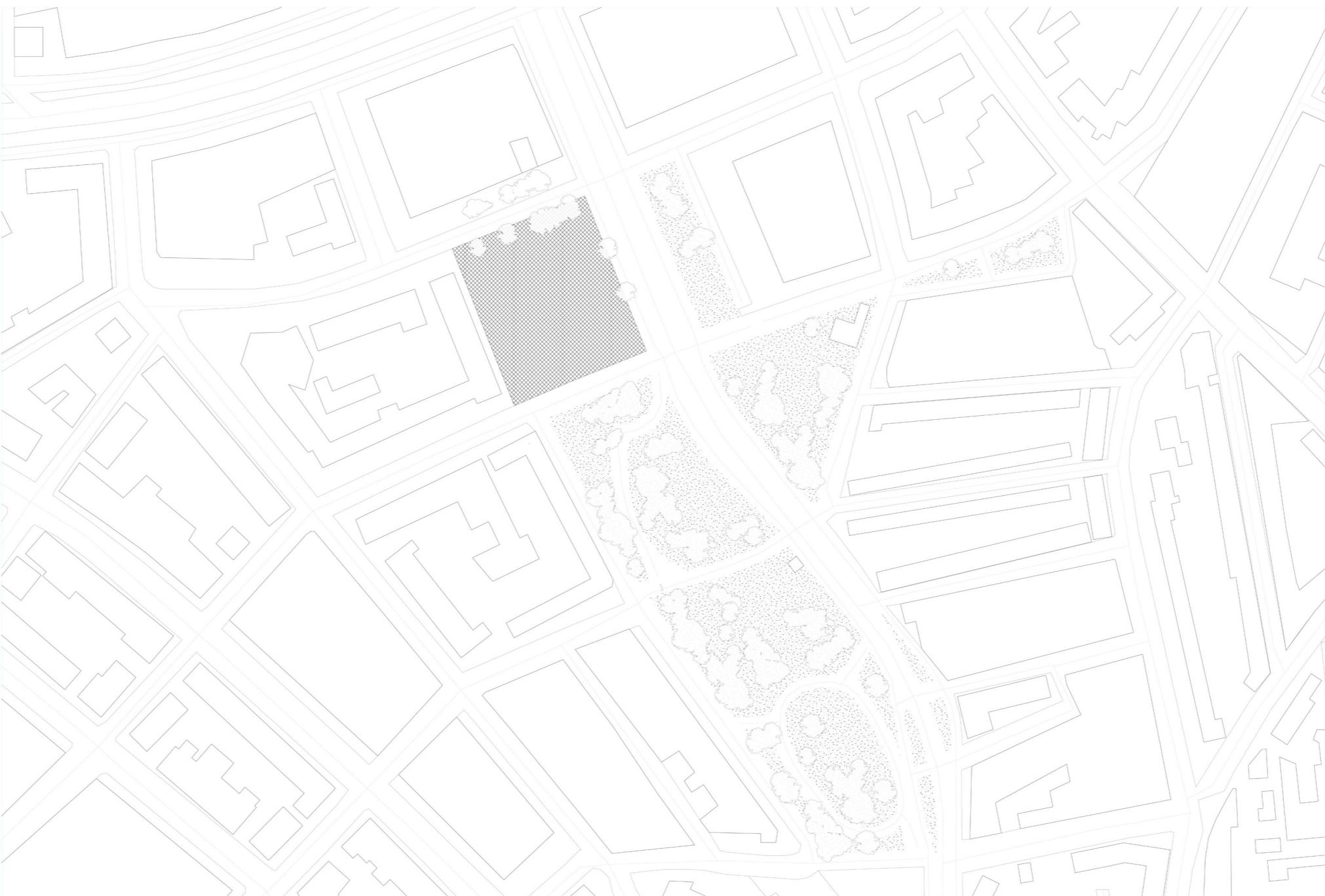


Kelfkensbos



Molenpoort





Wedren



1950-1960



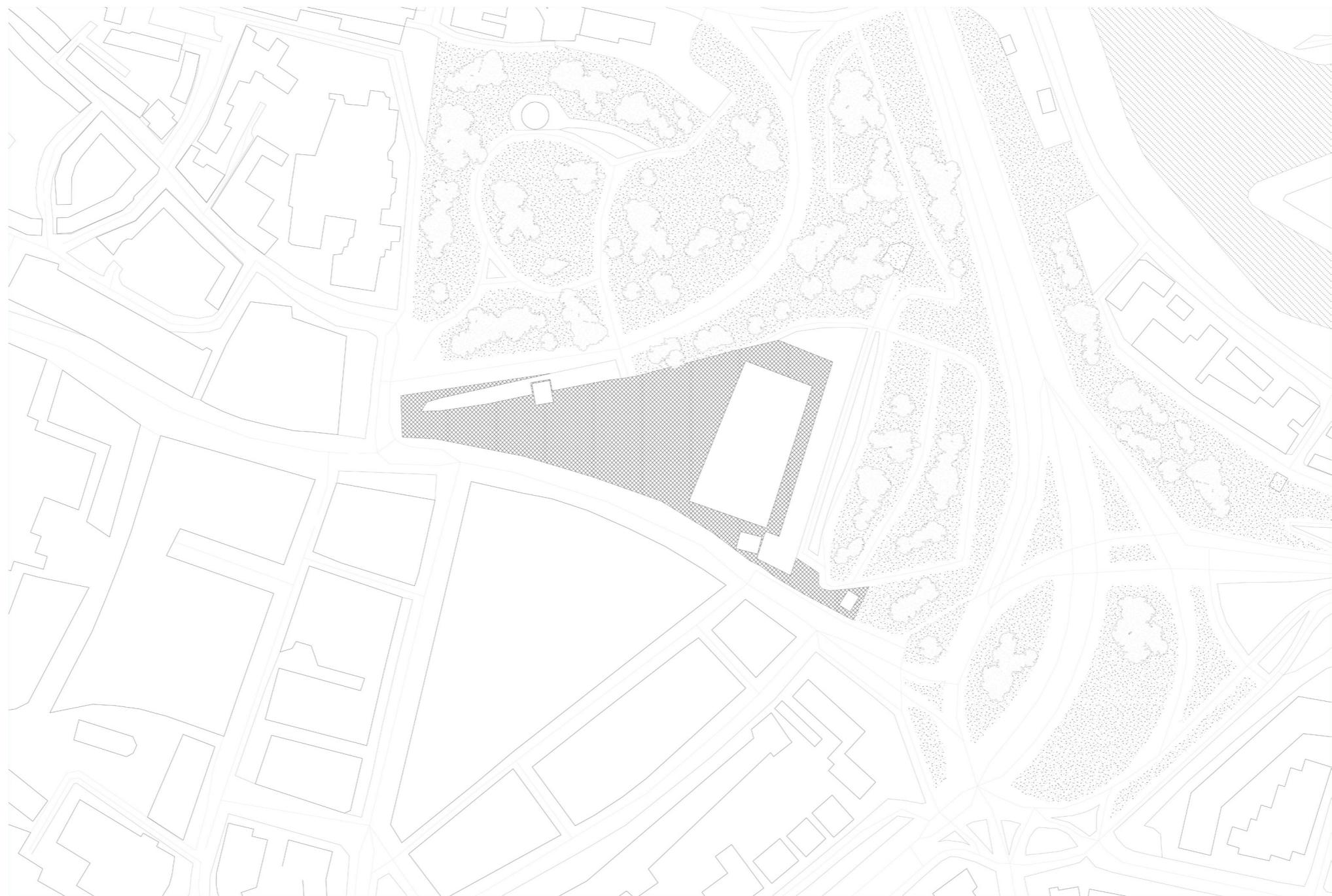
1970-1980



Today



Today



Kelfkensbos



1910-1920



1935



1960-1970



1986



Today

Alessandro de Cadilhac



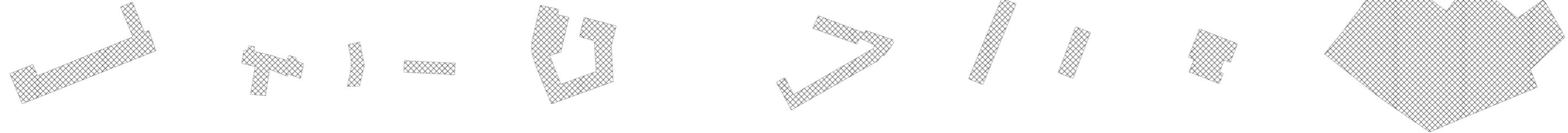
Today



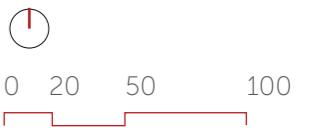
Today

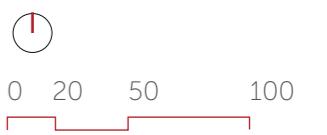
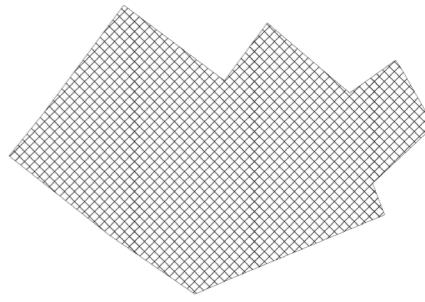
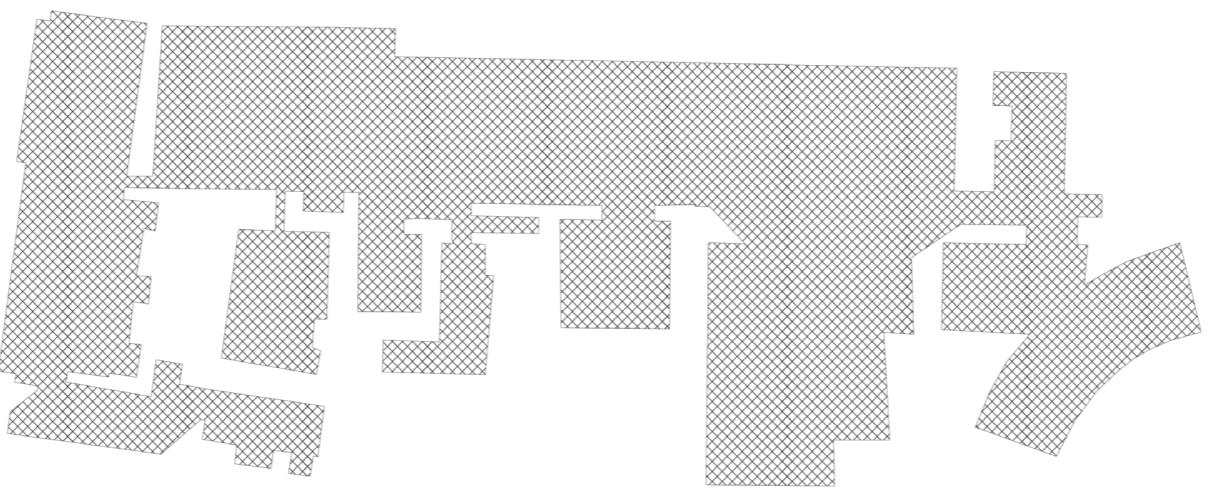
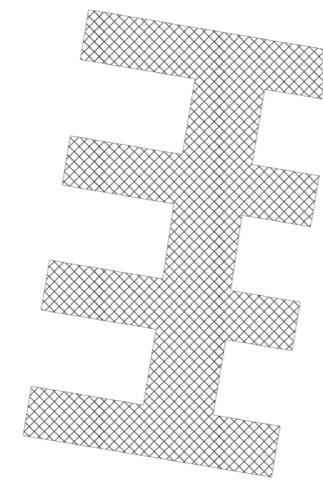


Today



The size of the city centre





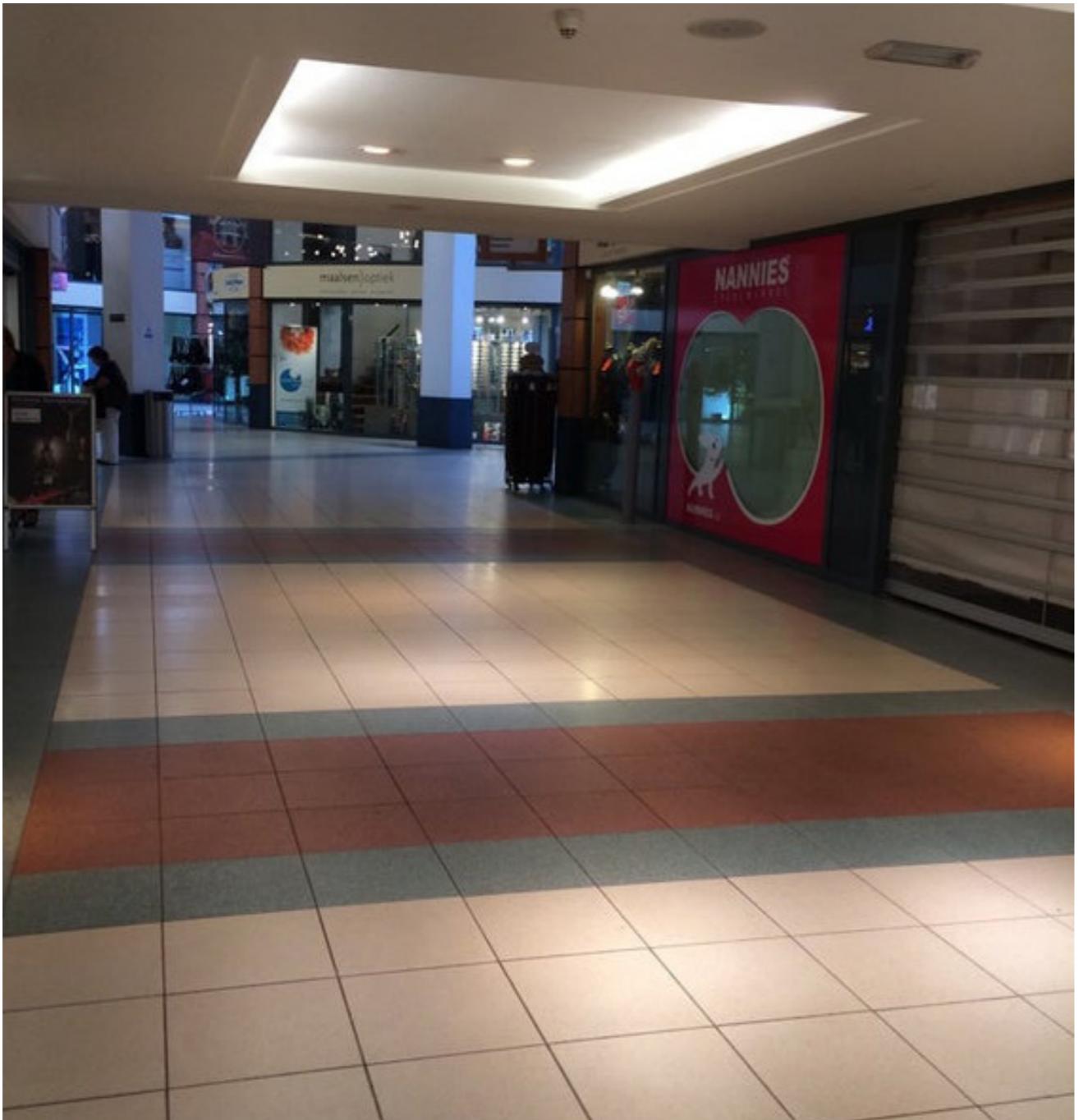
The size of the campus



Introverted typology of the mall



Introverted typology of the mall

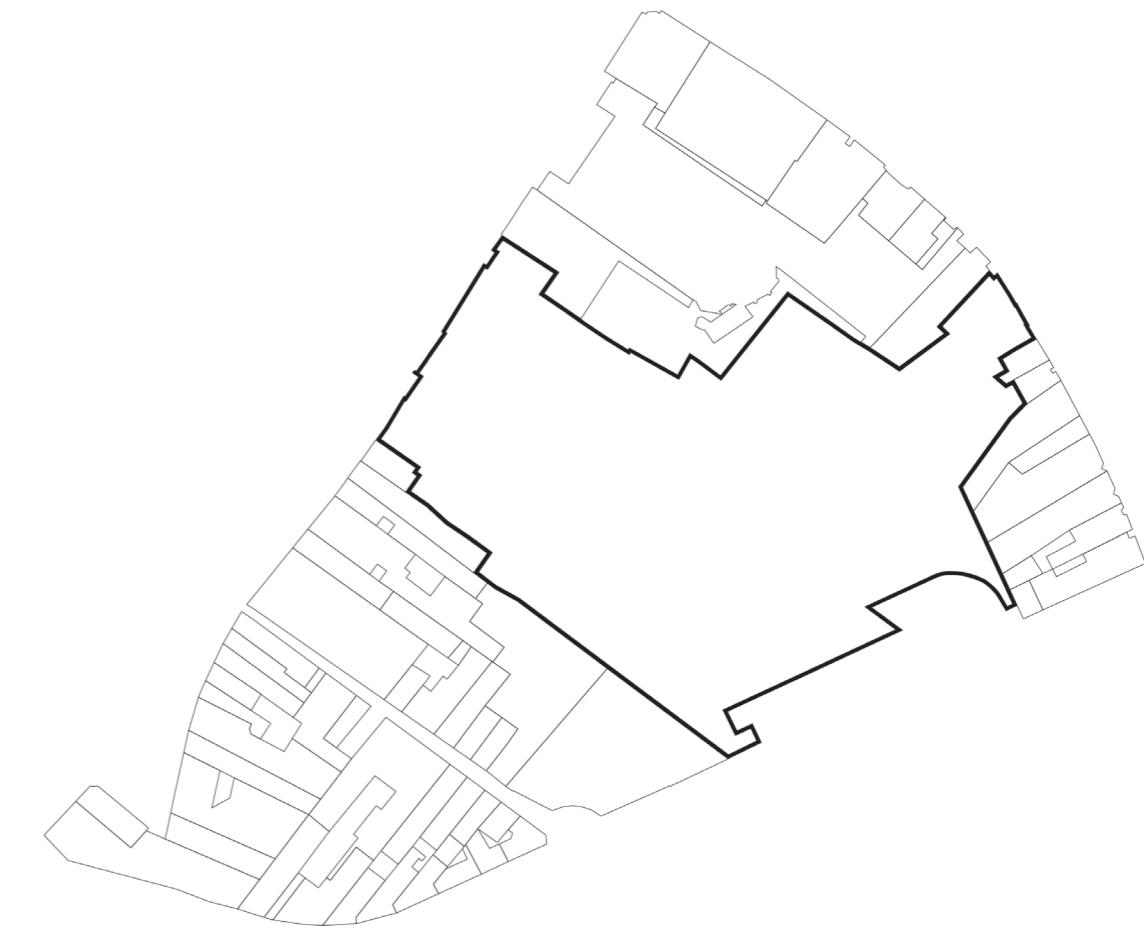


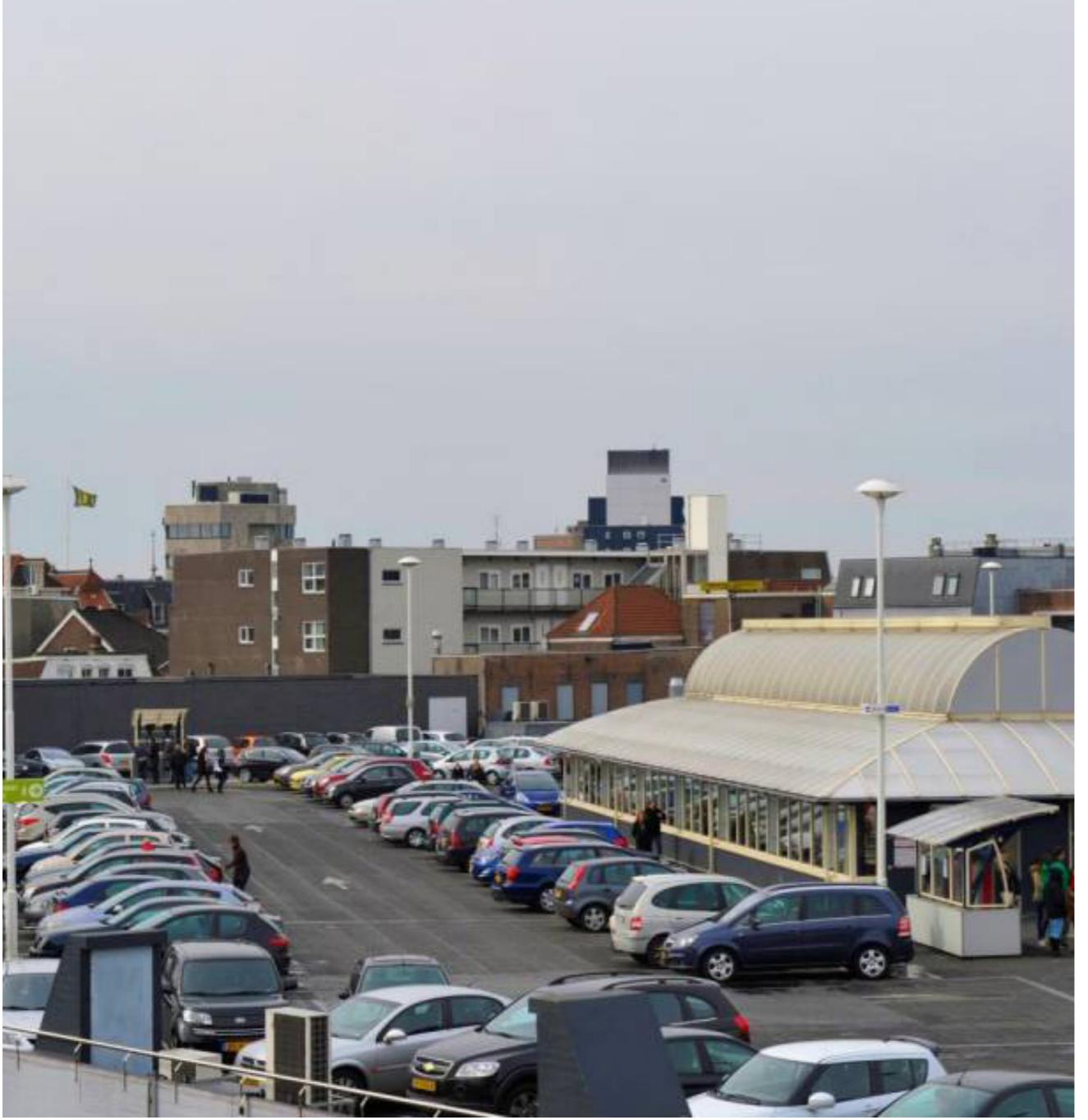
Current state





Aerial photograph



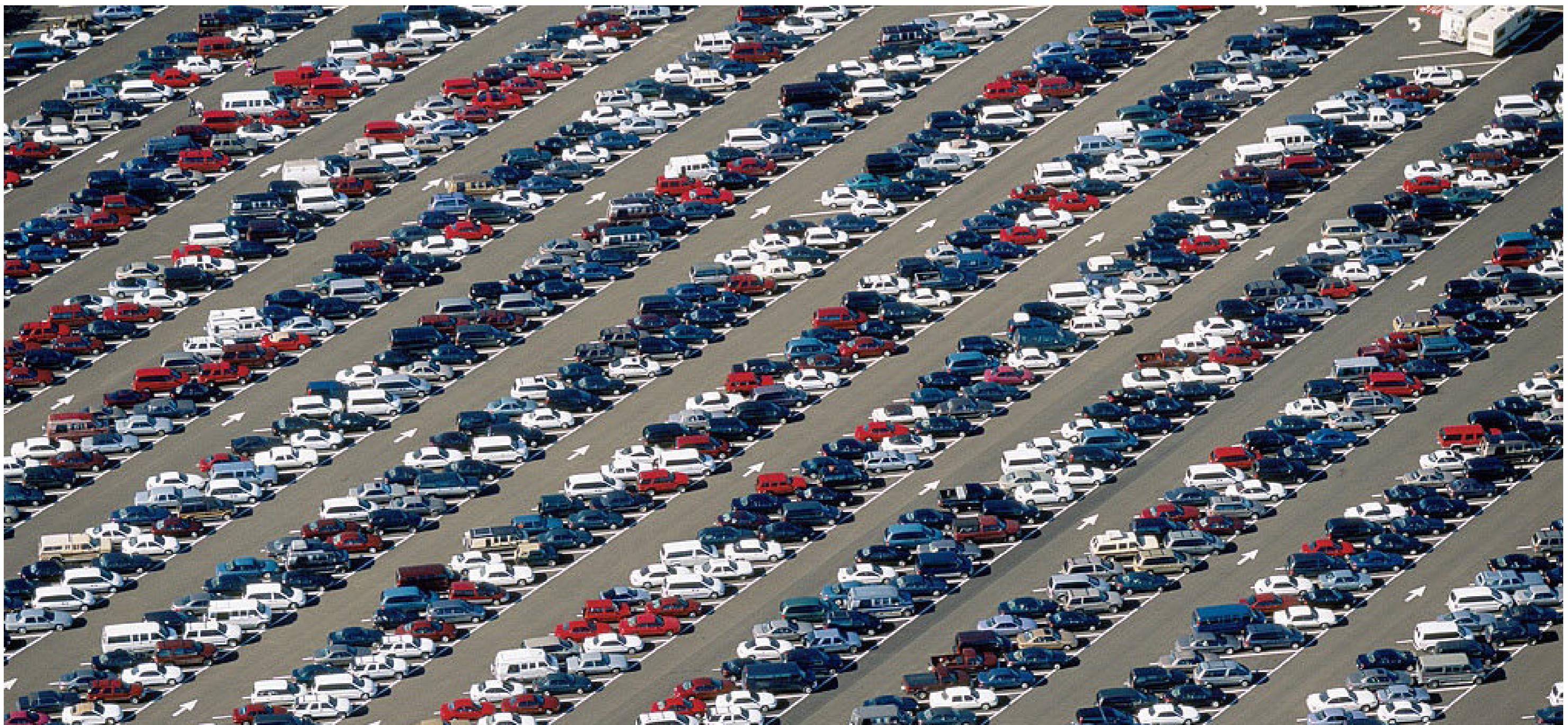


Views from the roof

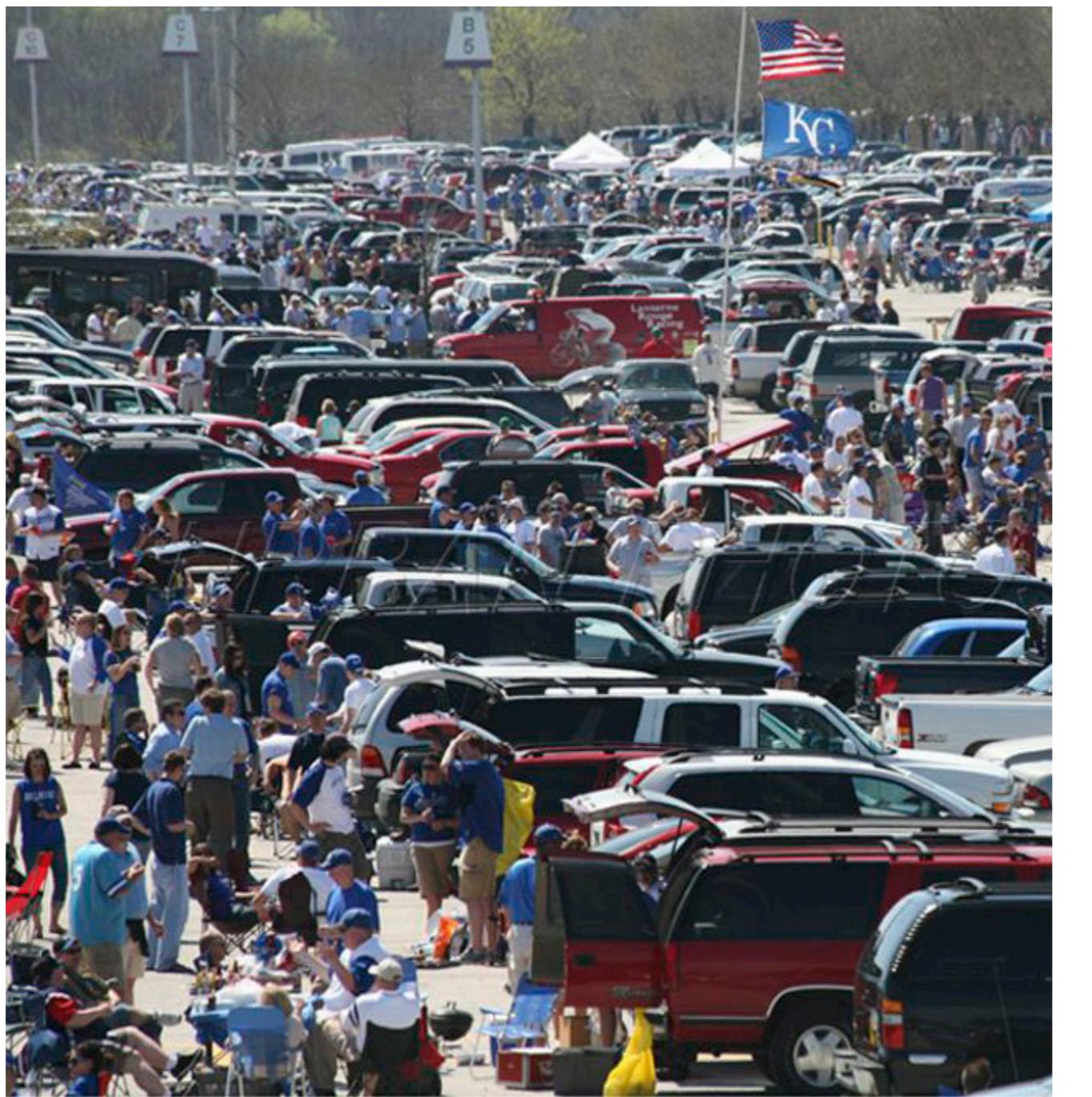




View from the roof



Parking lot in Orlando



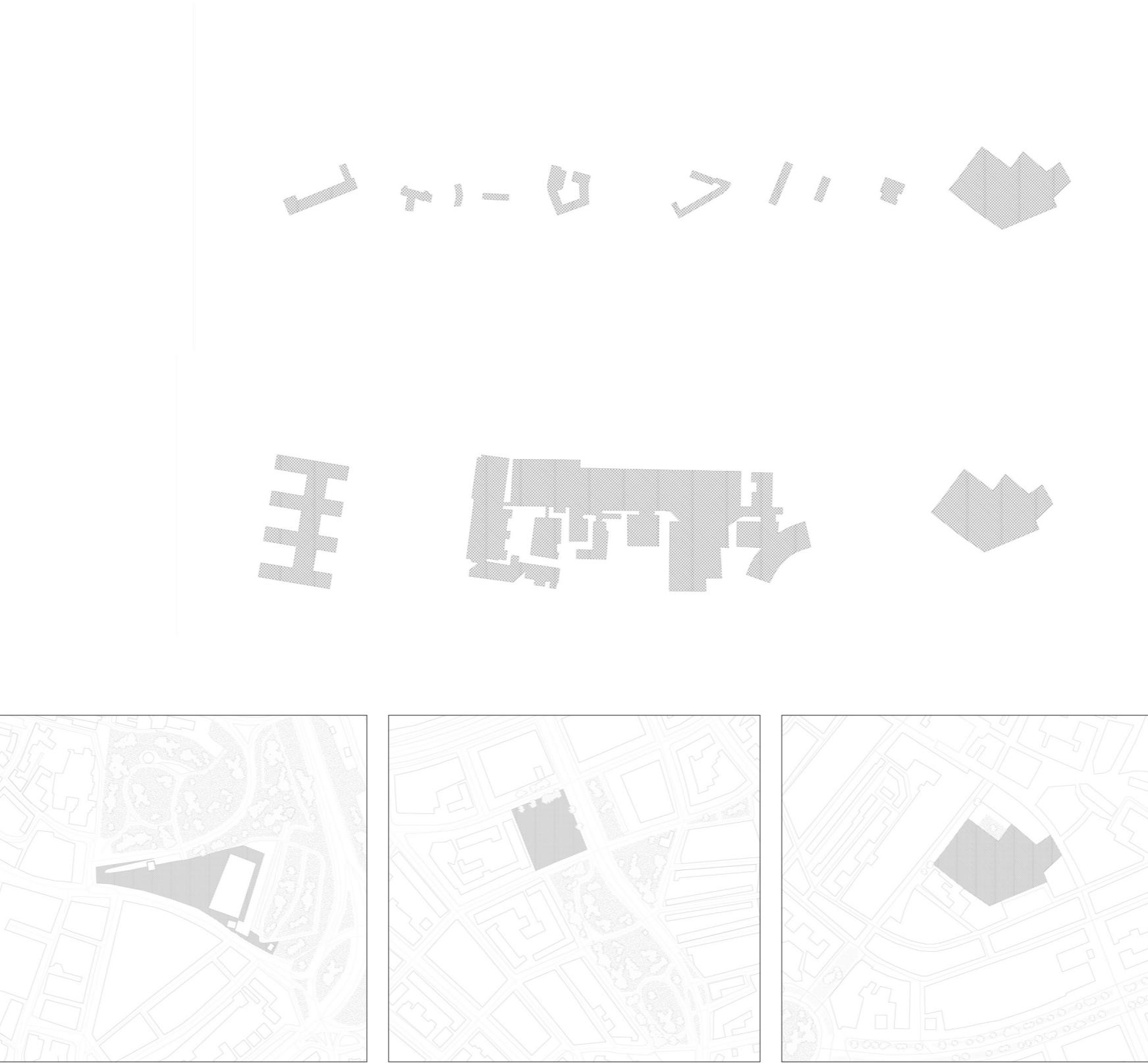
Barbeque in a parking lot



Jam session in a parking lot

3

INTENTIONS





Interviews





Playground in Goffertpark



Seniors active in the Ooij Exercise Garden



Temporary sport field in Kelfkensbos square



Temporary sport field in Plein 44

4

ALTERATIONS

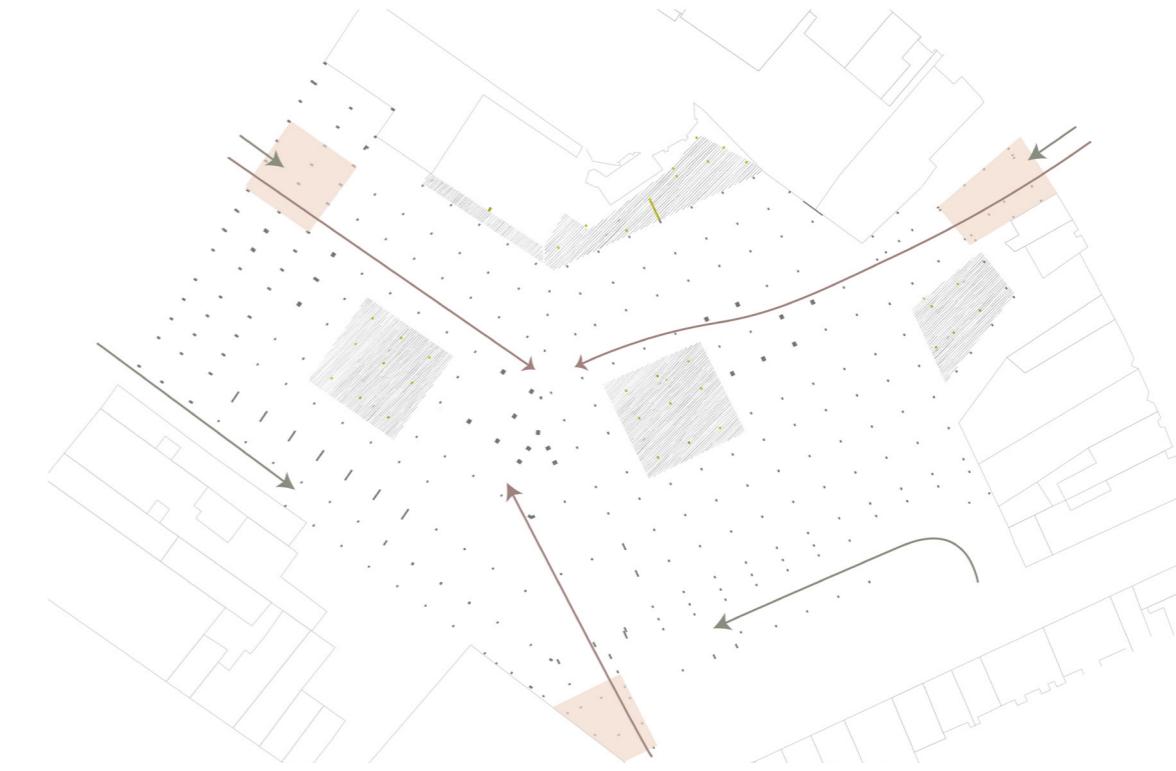
		ABOVE THE SLAB SPORT PLAYGROUND AND POLIFUNCTIONAL INFRASTRUCTURE
	Existing	Alteration
Use	Private Monofunctional Generic function Same function at any time Exclusively functional space Rigid function and spatiality	Open to the city Polifunctional Specific and peculiar Different functions within a day Social gathering Flexibility of spaces and functions
Typological		
Spatial	Revealing the values of the existing building and introduce them to the city	
Technical/Climatic		
Formal		
		BELOW THE SLAB LIBRARY
	Existing	Alteration
	Monotonous spatiality Transit space, passage Fragmented Introverted	Different spatial condition and intimacy Inhabited space Revealing the scale Revealing the exterior

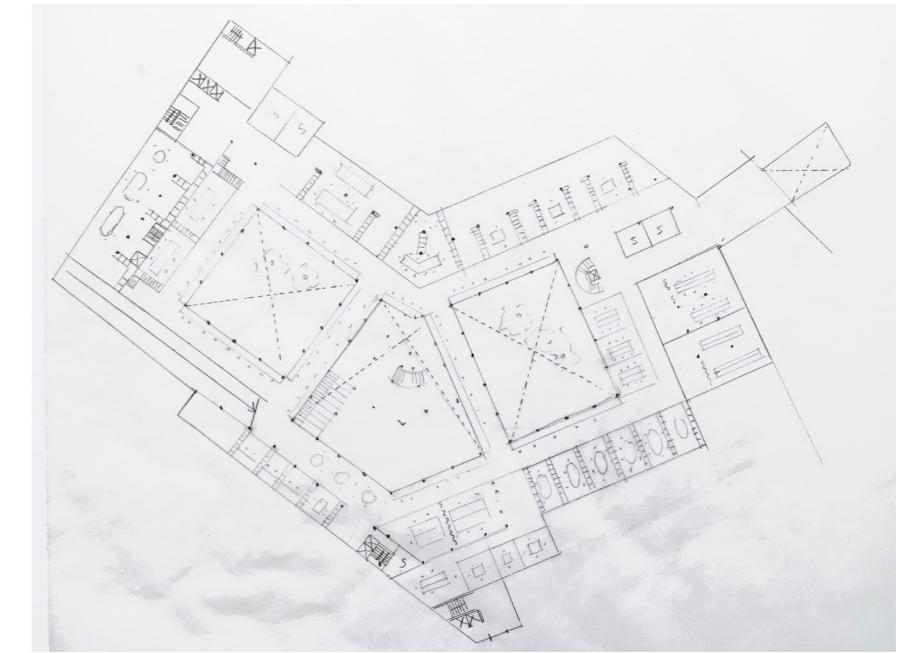
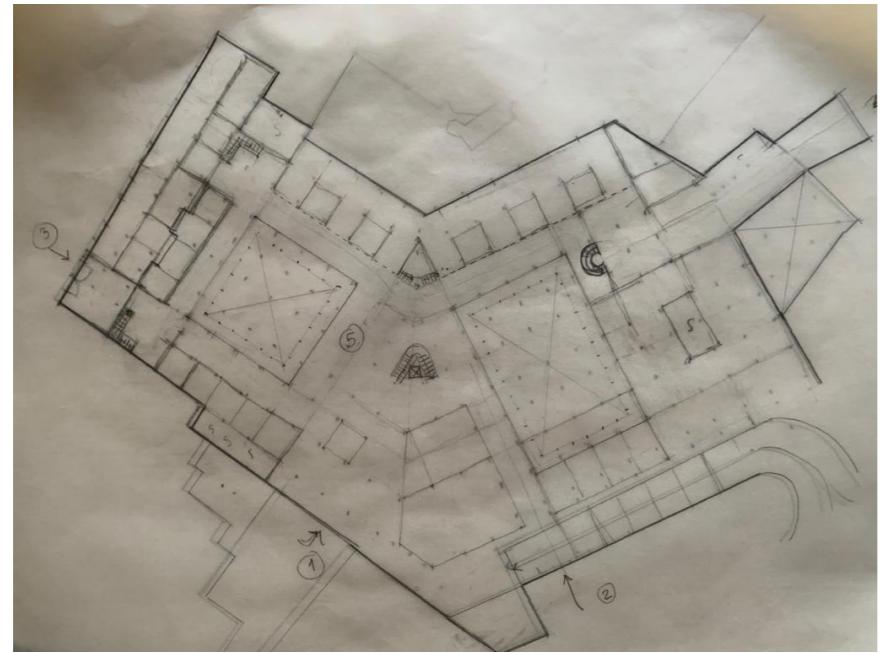


Mall circulation

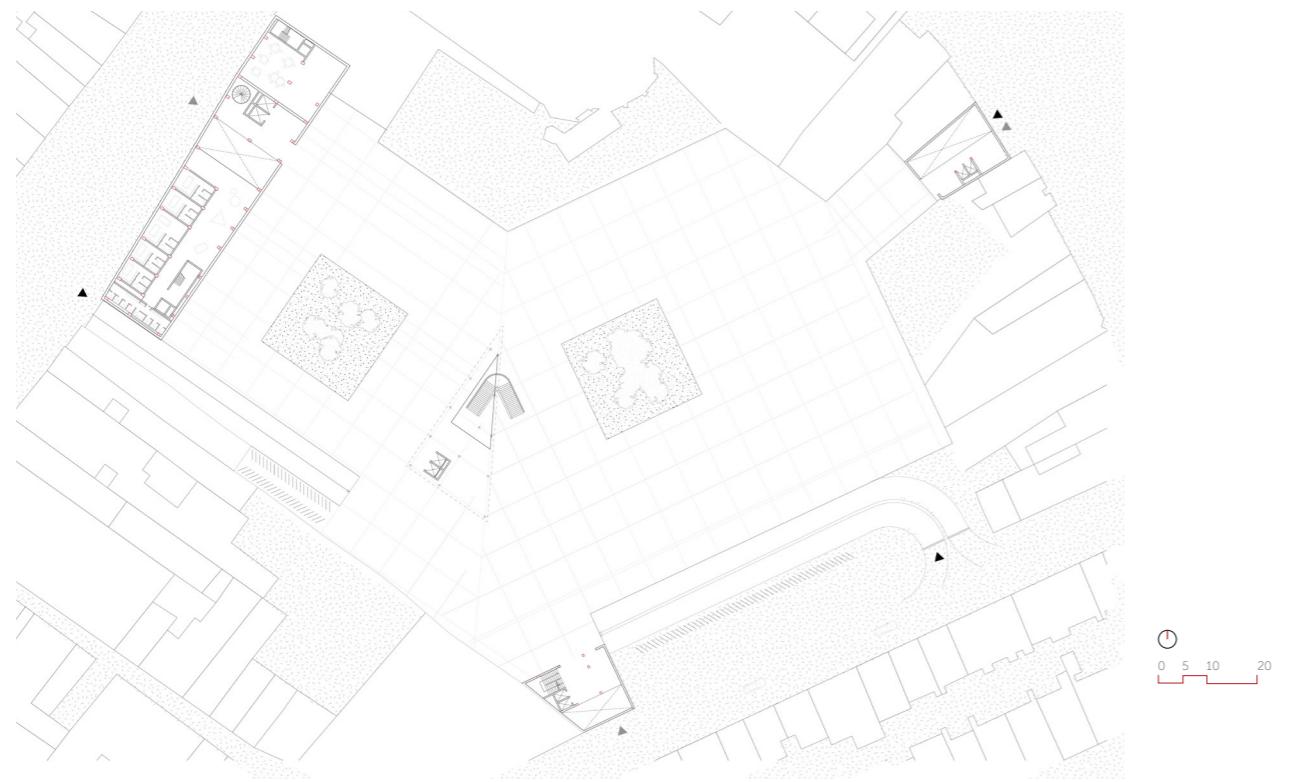


Ground floor: circulation and accesses





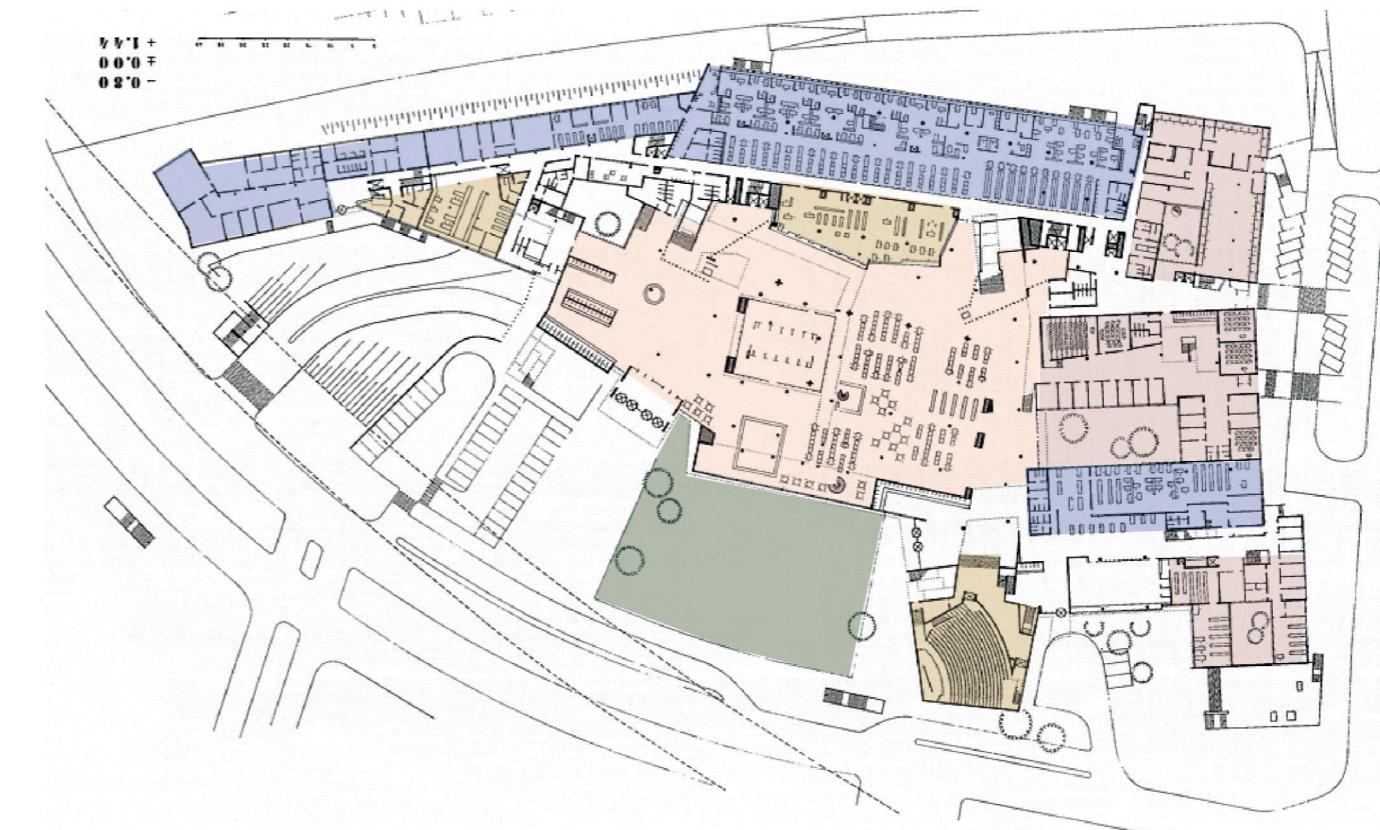
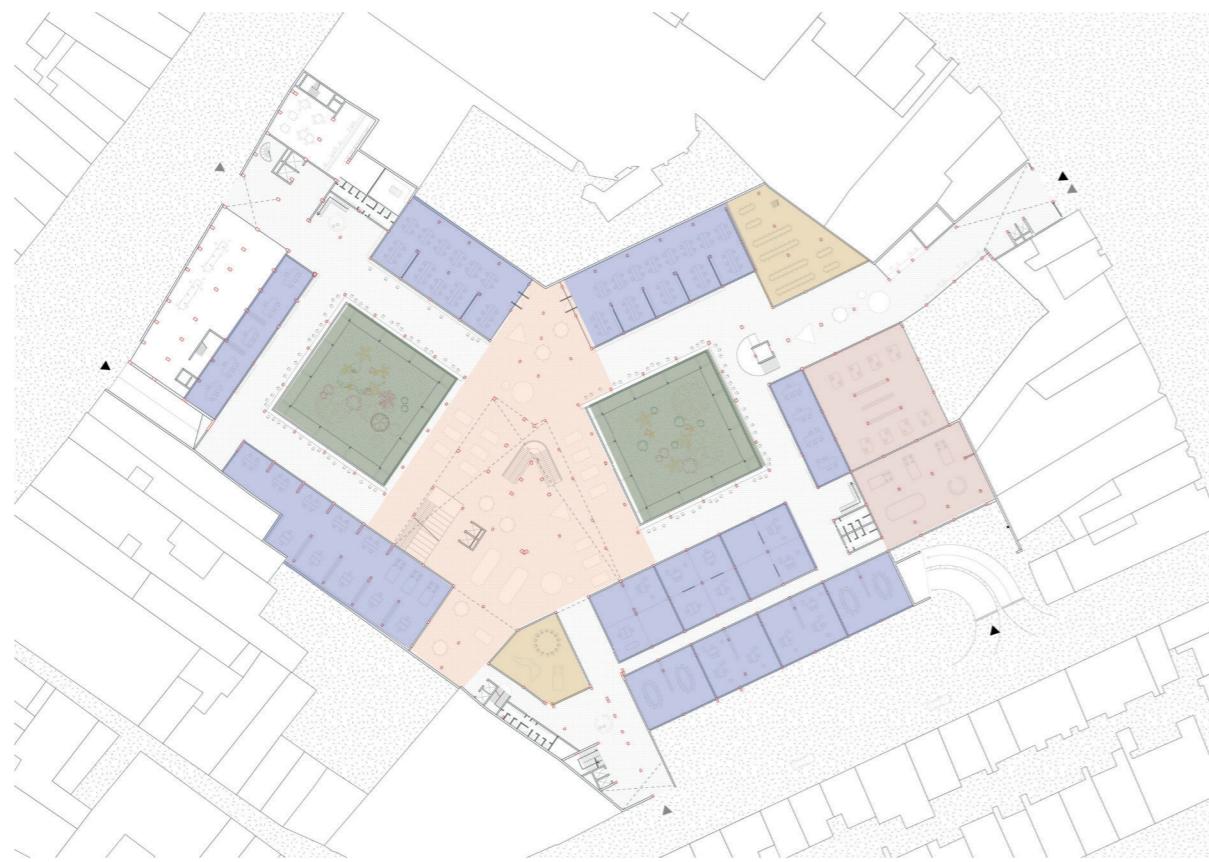
Progress of the spatial distribution



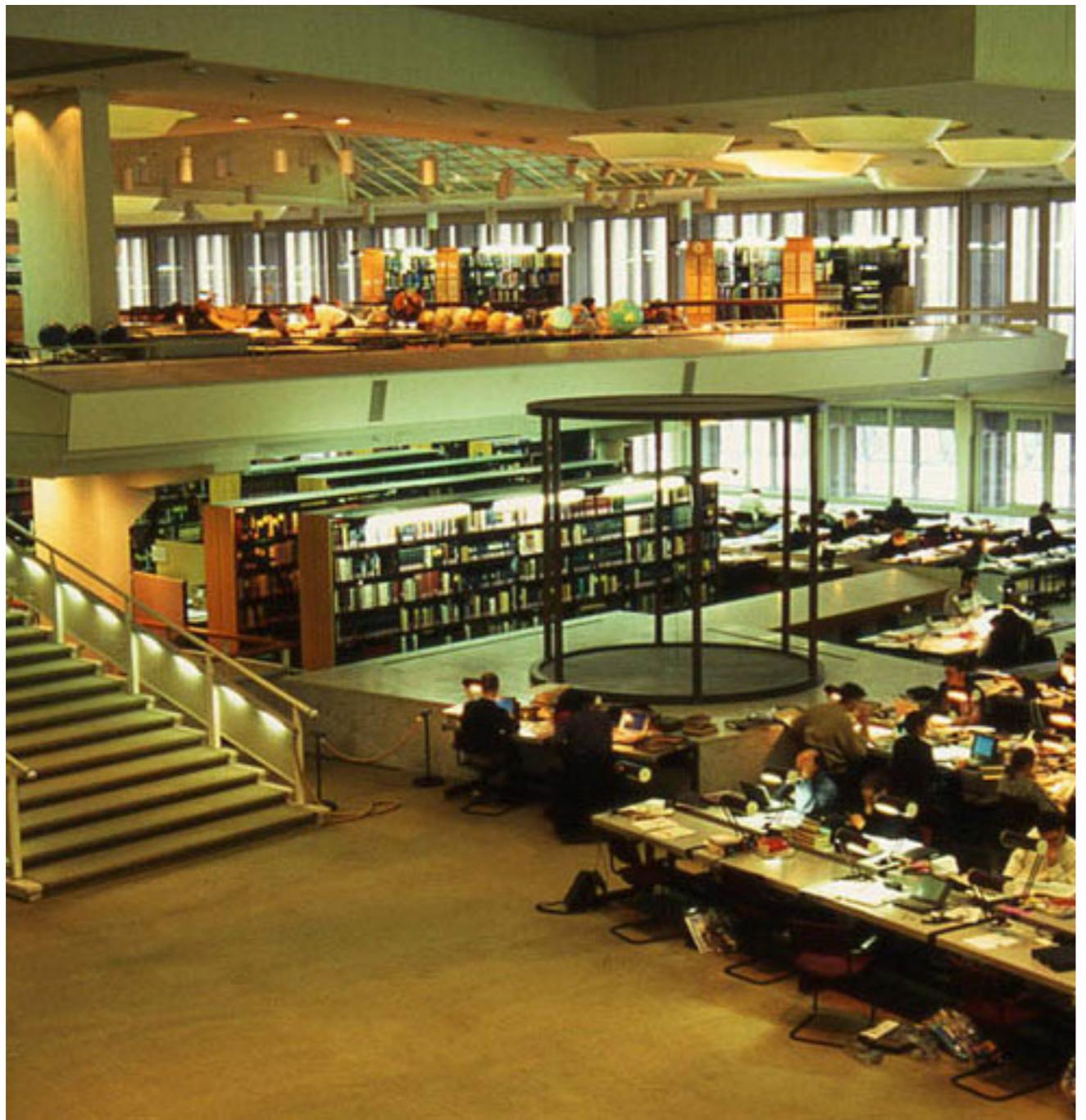
Roof floor: circulation and accesses



Seniors active in the Ooij Exercise Garden

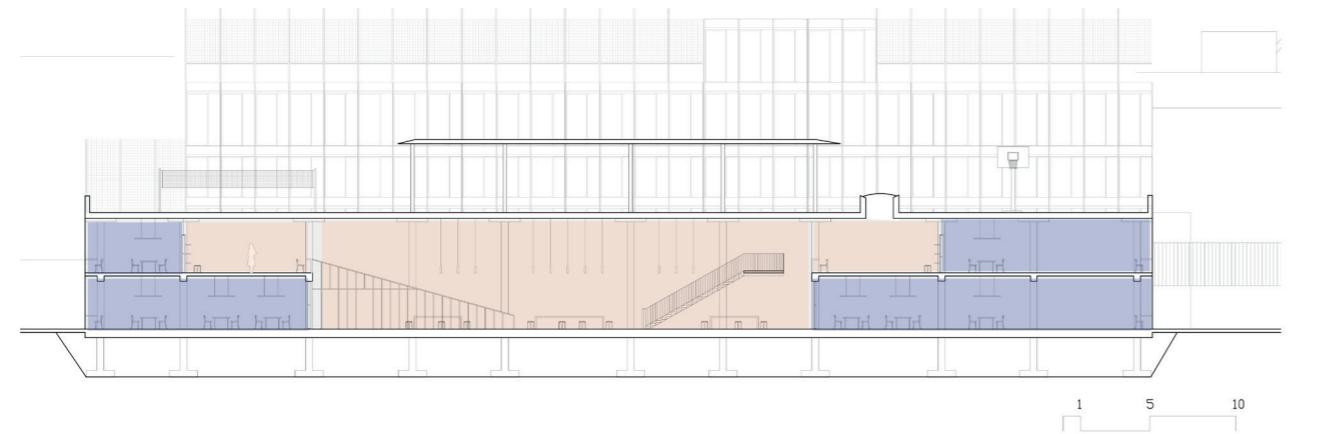


Comparison with Berlin State Library
Hans Scharoun and Edgar Wisniewski (1967-1978)



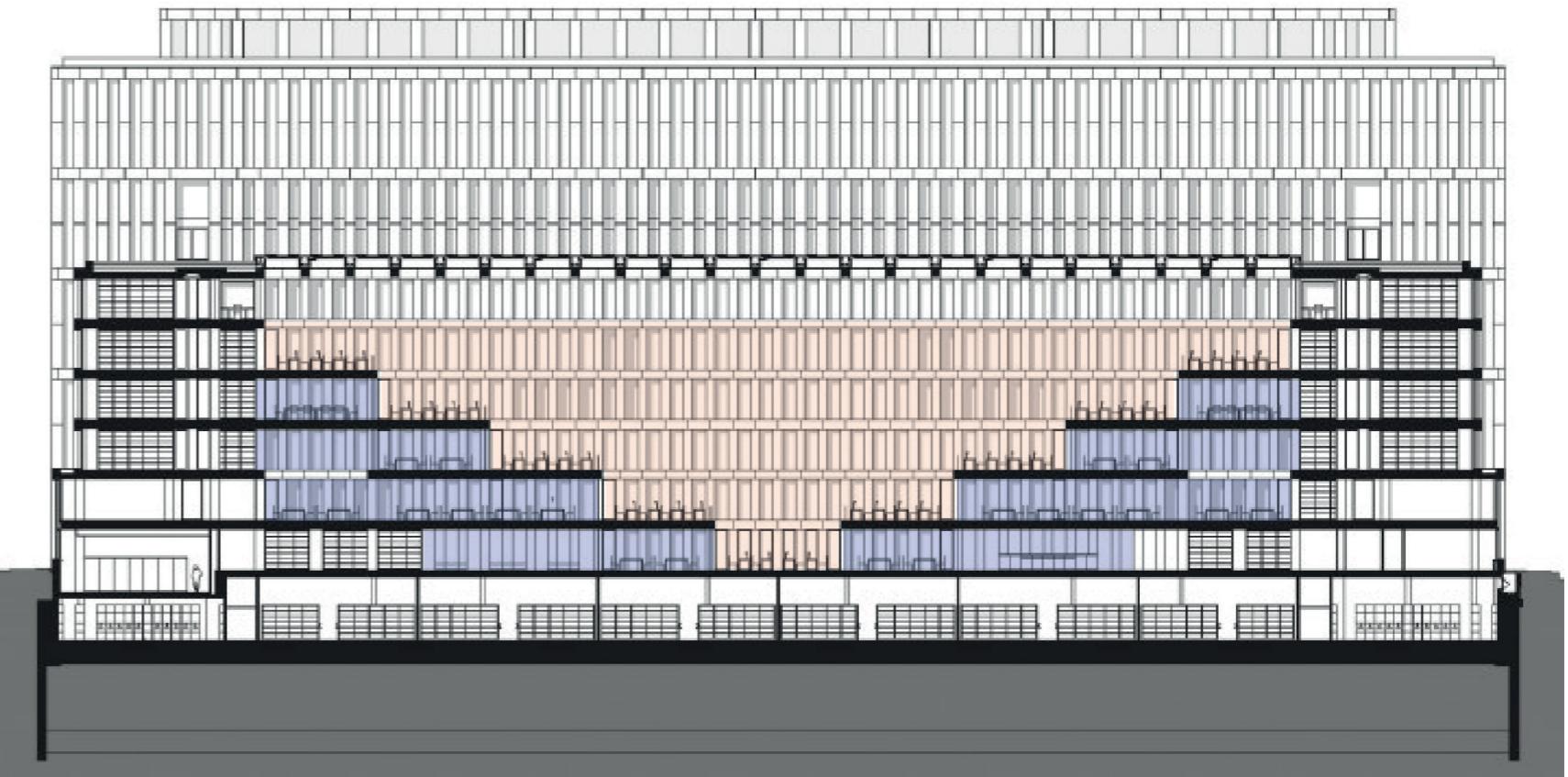
Berlin State Library
Hans Scharoun and Edgar Wisniewski (1967-1978)

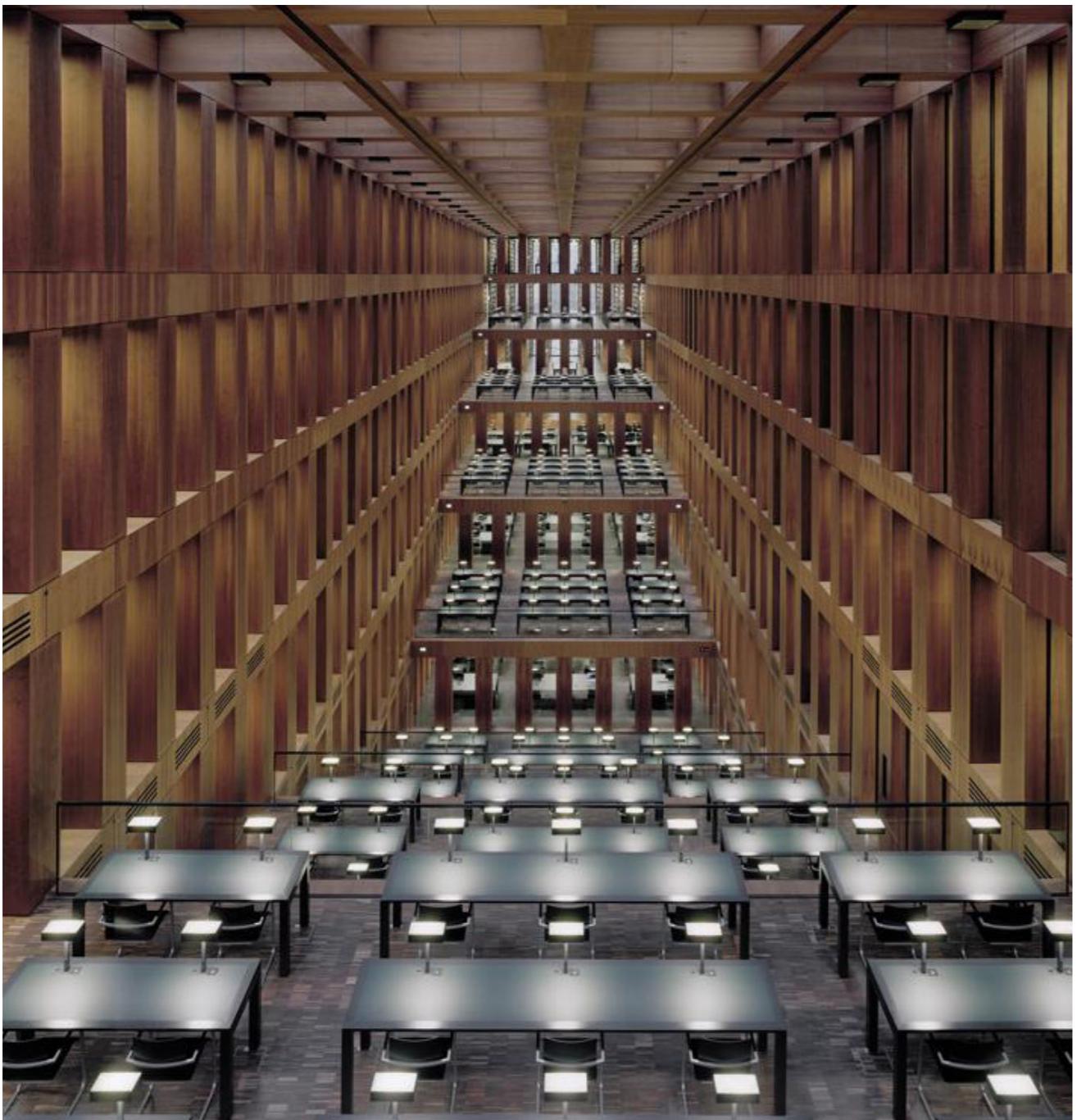




Jacob and Wilhelm Grimm Centre
Max Dudler (2009)

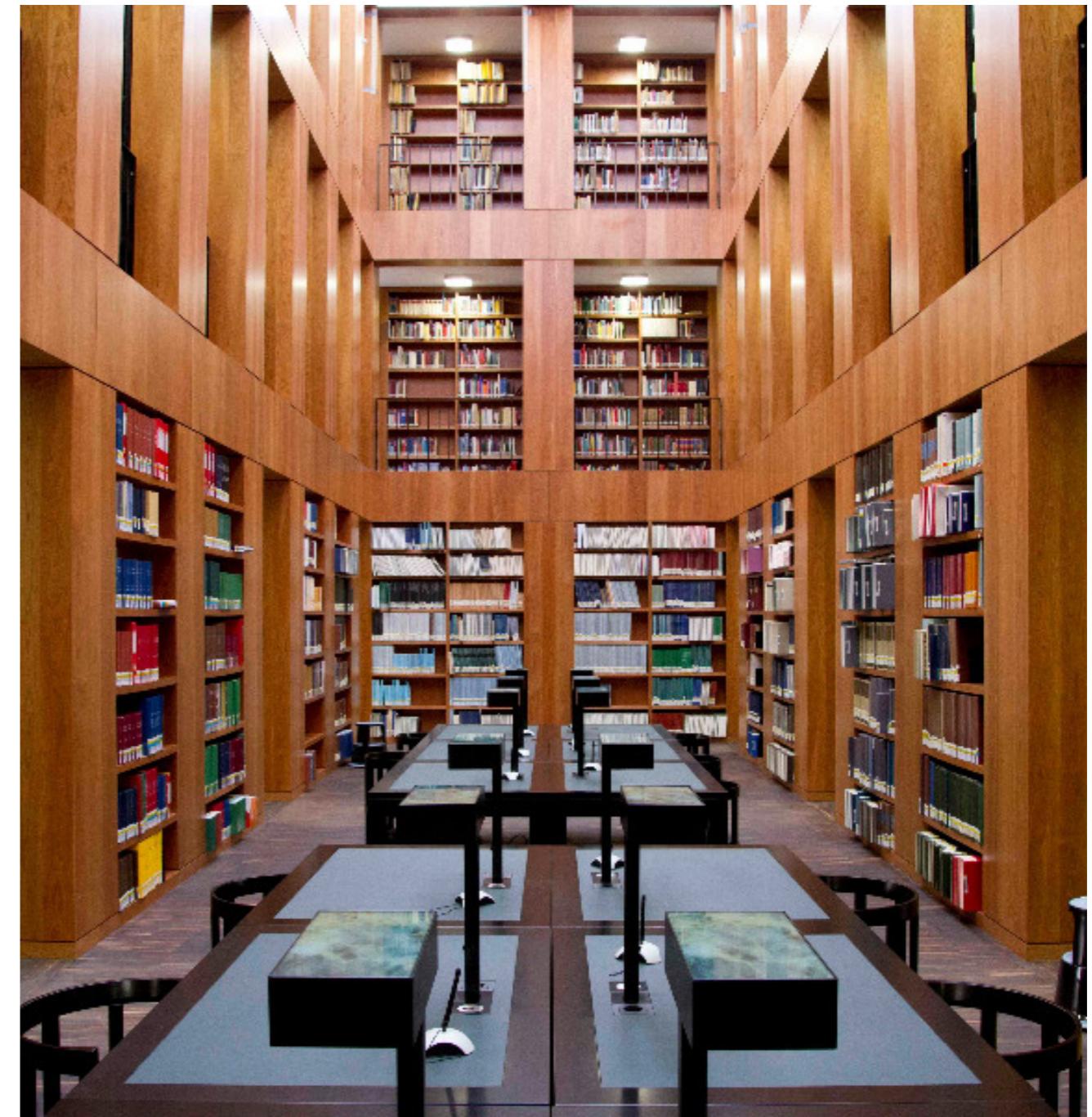
Alessandro de Cadilhac





Jacob and Wilhelm Grimm Centre
Max Dudler (2009)

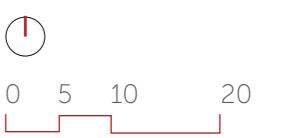
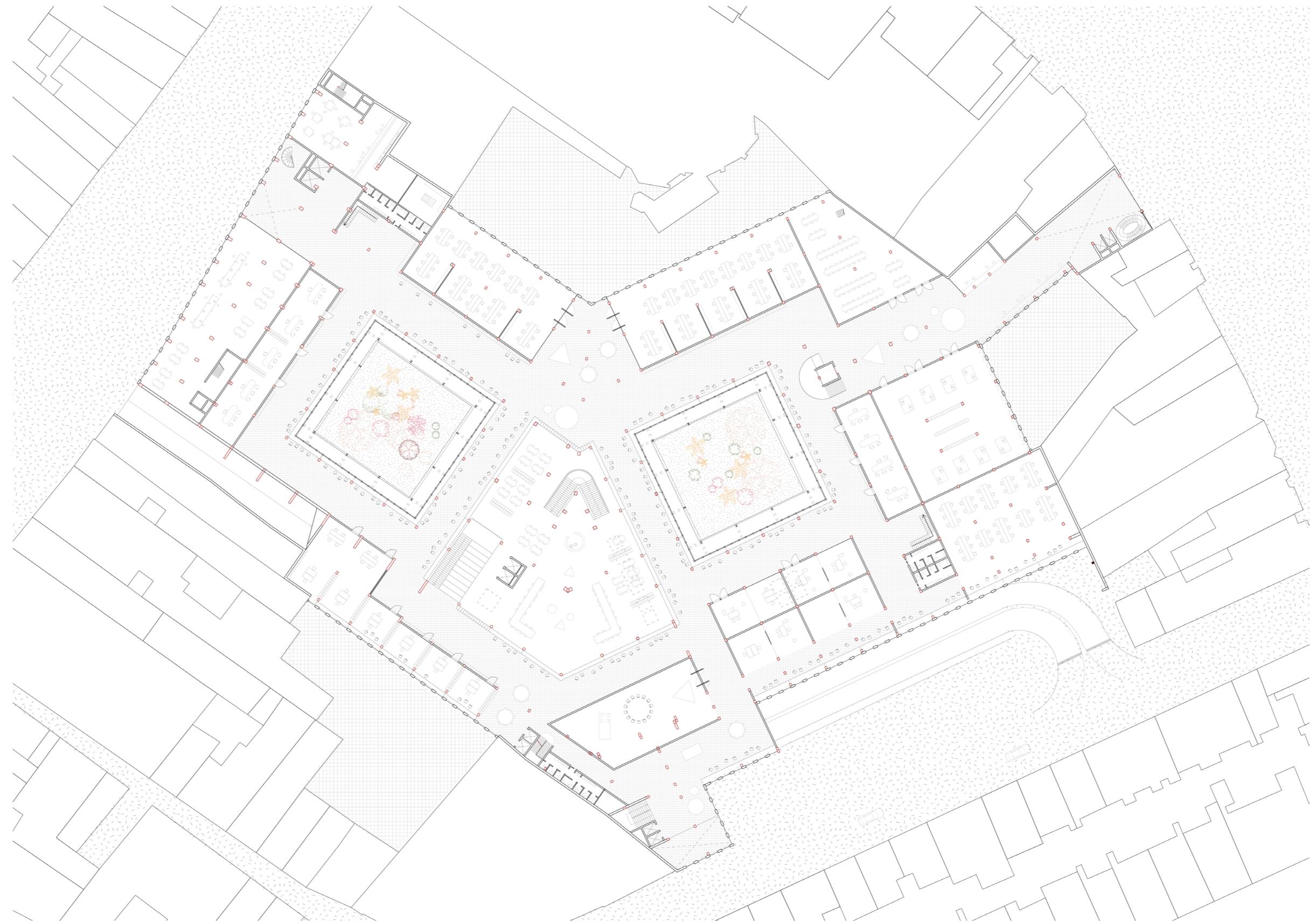
Alessandro de Cadilhac



P5. Revealing Molenpoort

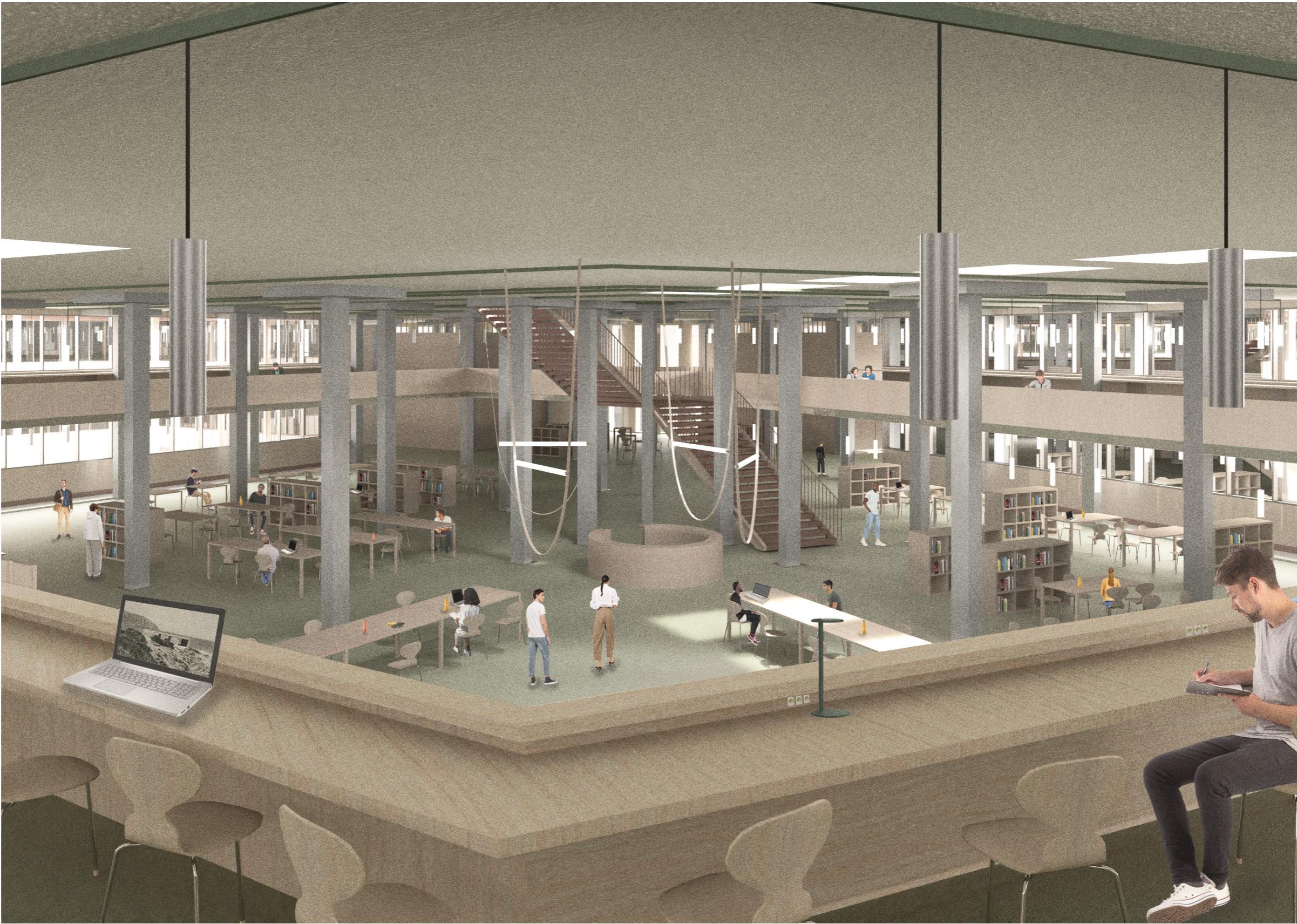


First floor

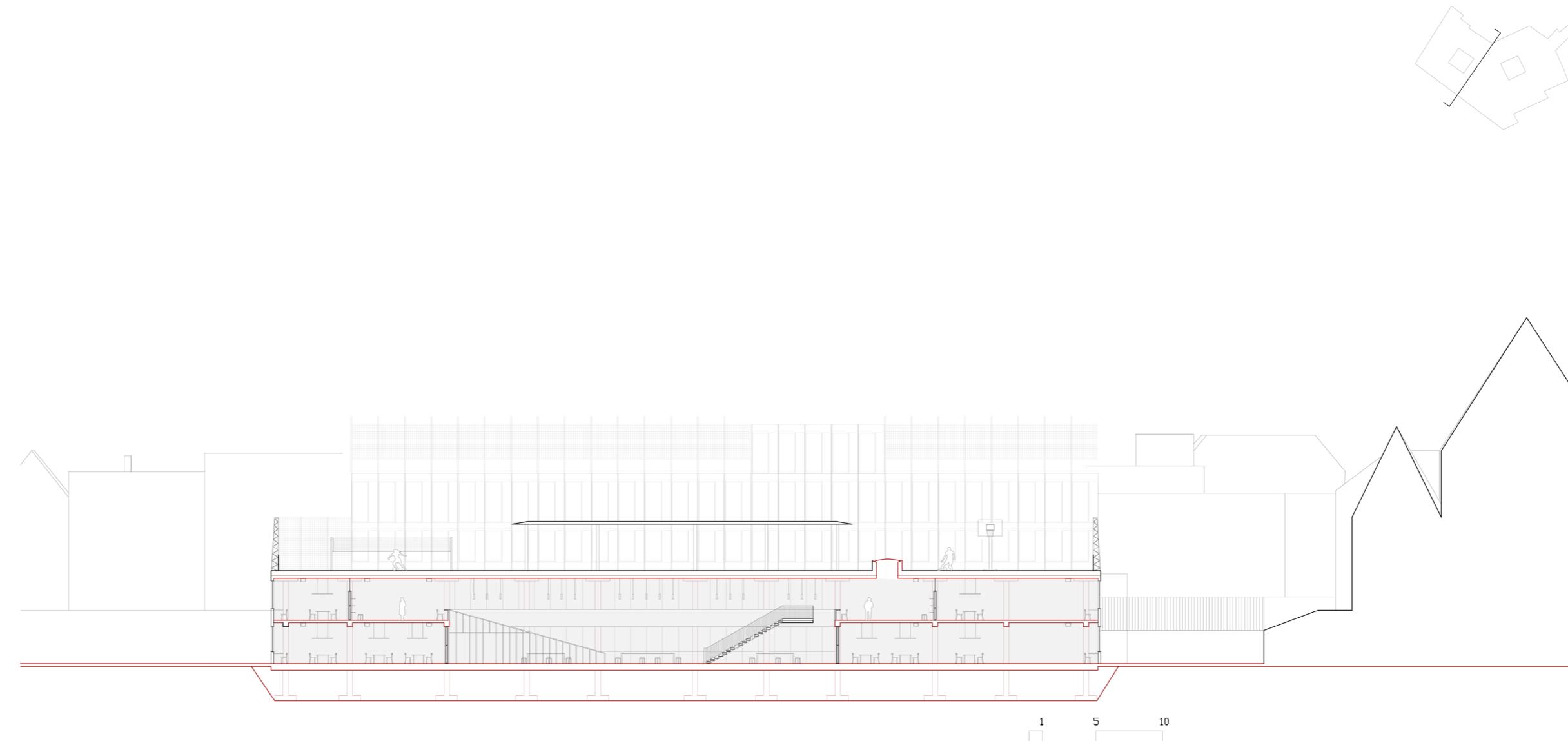




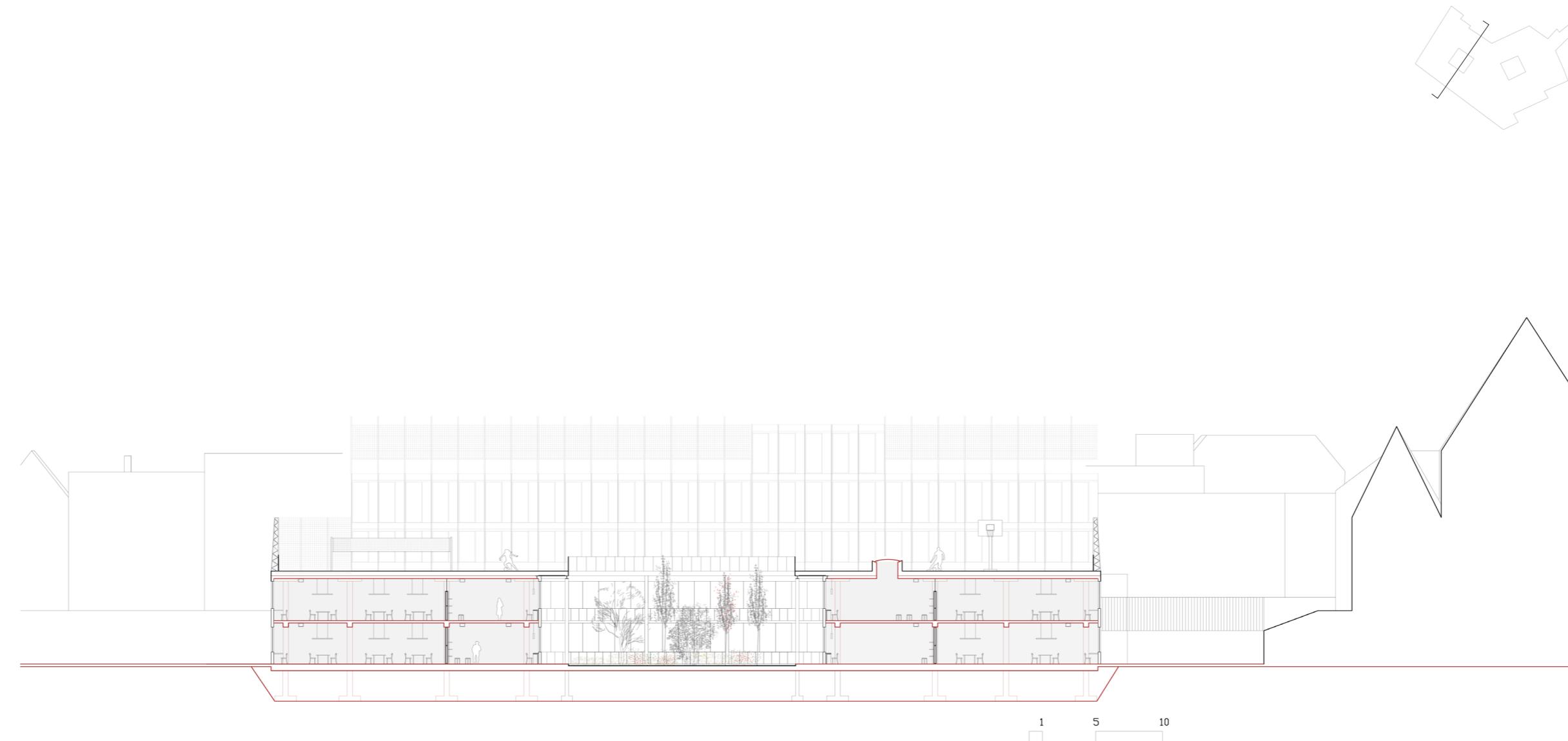
The central room



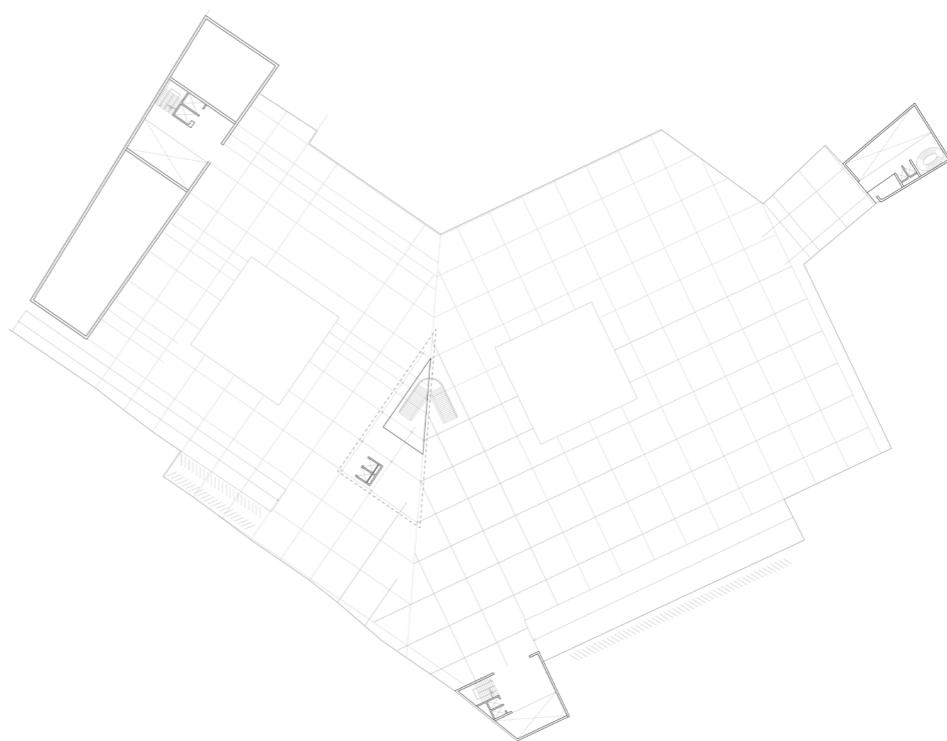
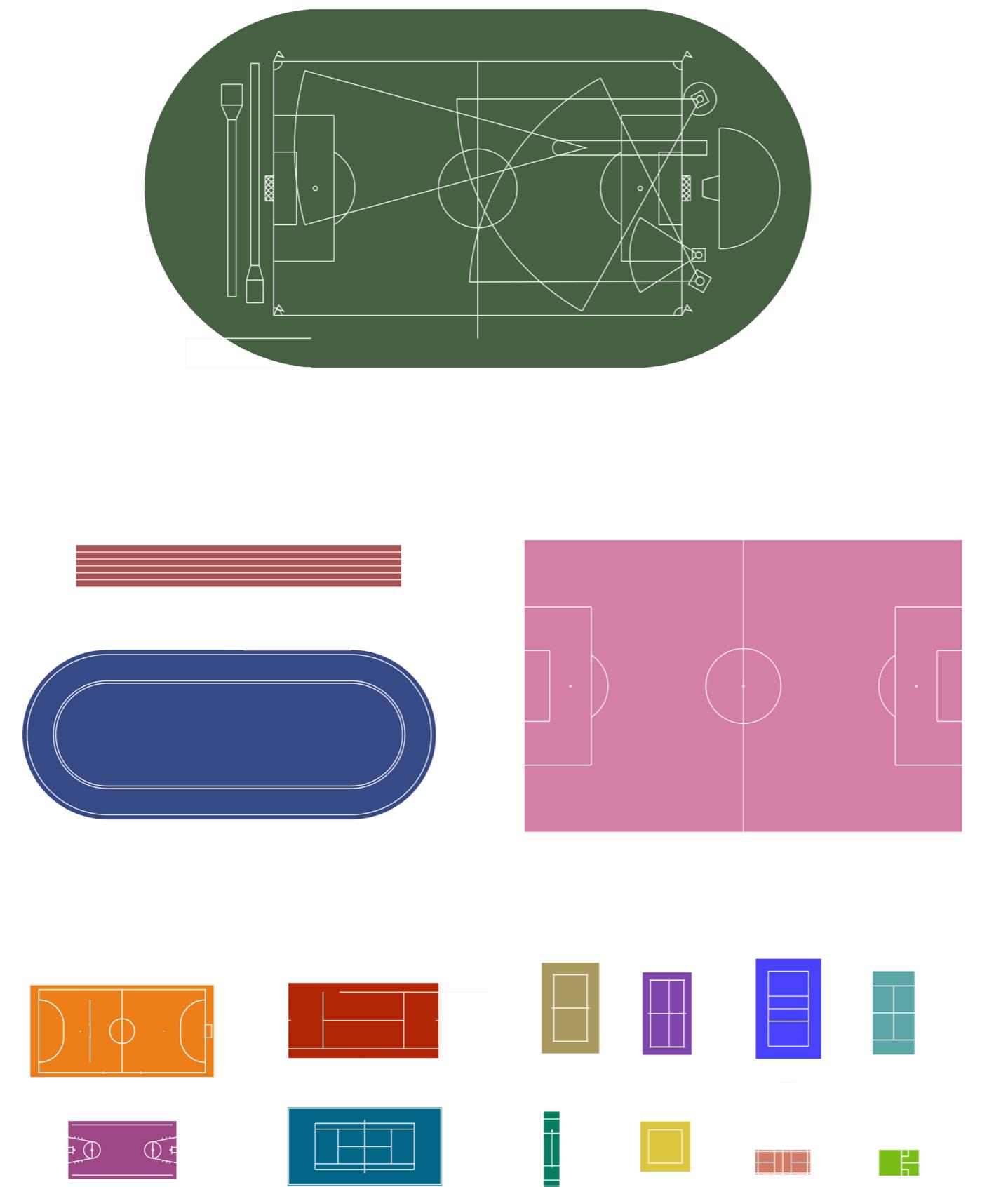
View from the mezzanine floor

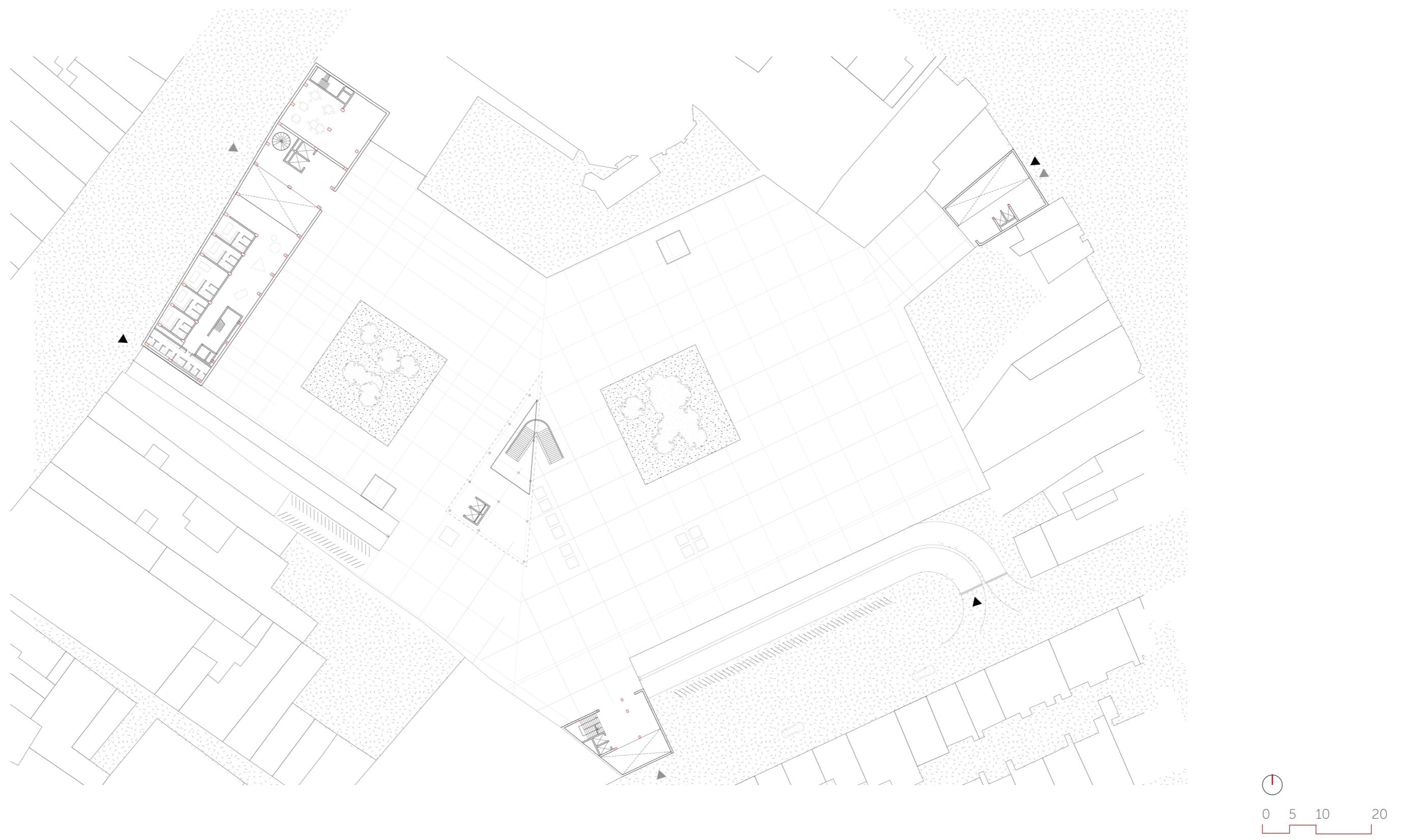


Section through the central room

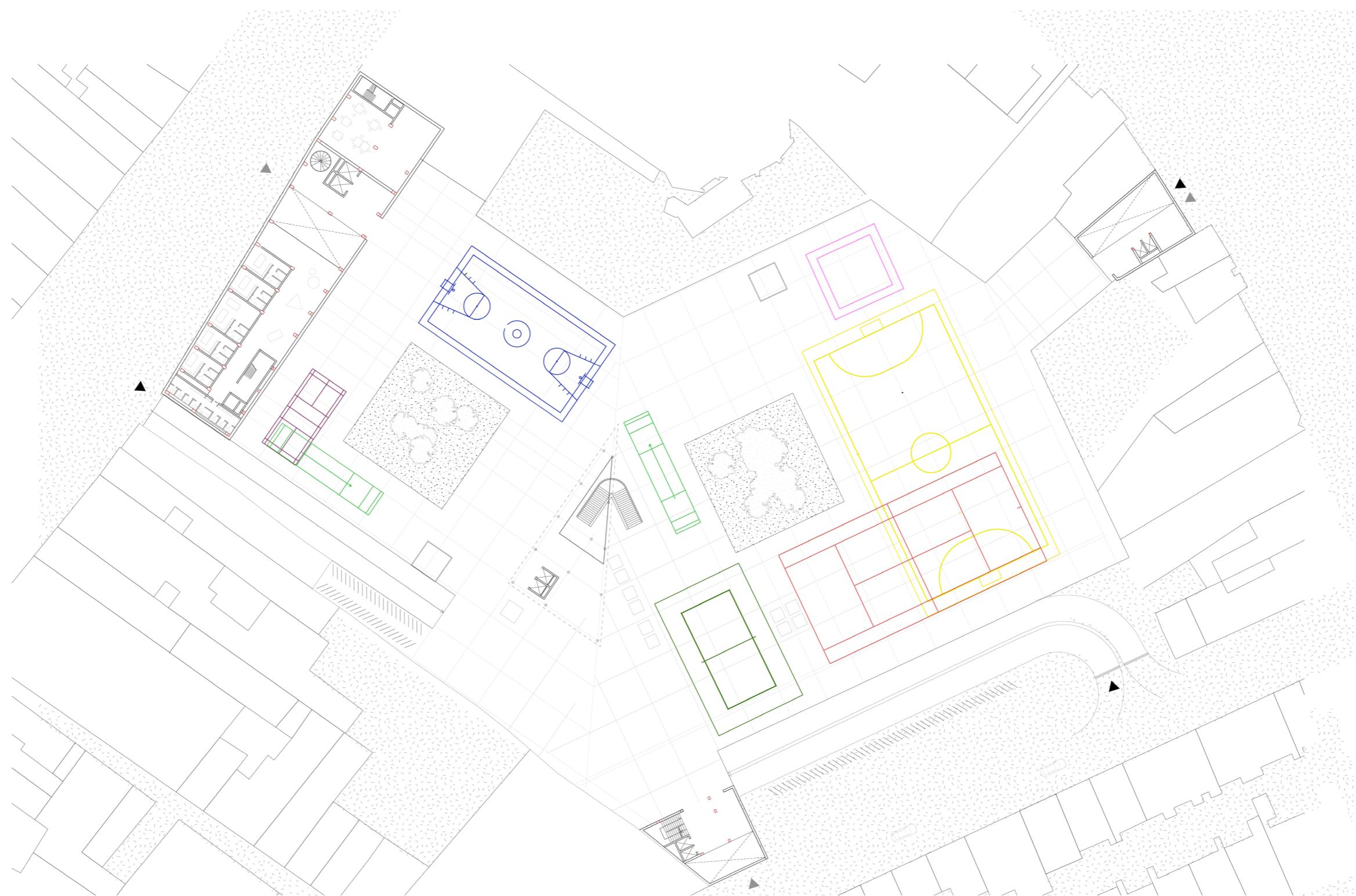


Section through the courtyard

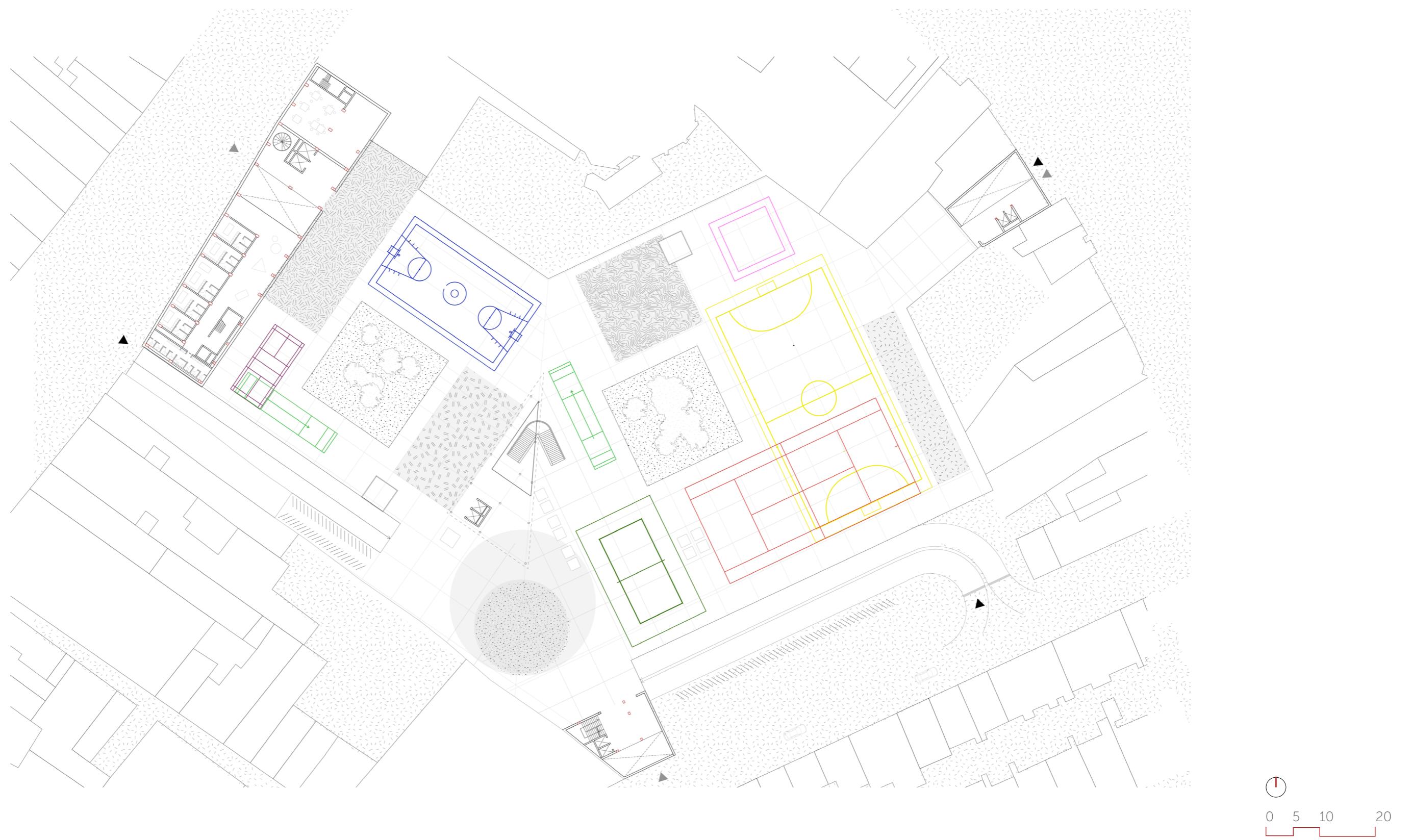




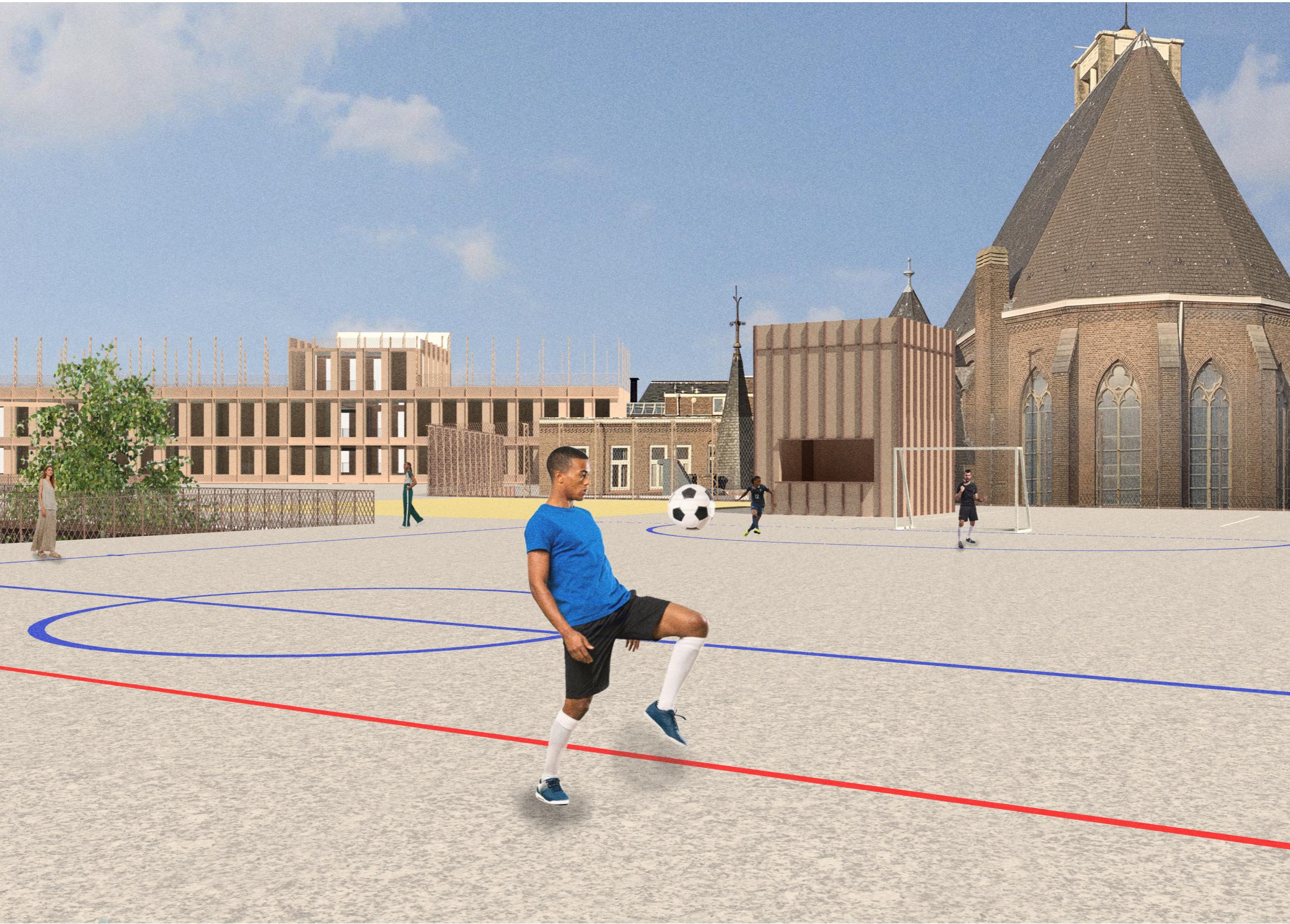
Roof plan



Roof plan



Roof plan



The roof



Existing facade



Lux cinema

Alessandro de Cadilhac



Carolus cinema



Olympia theatre

Alessandro de Cadilhac



Het Scala Theater aan de Burchtstraat 76



Luxor cinema

Alessandro de Cadilhac



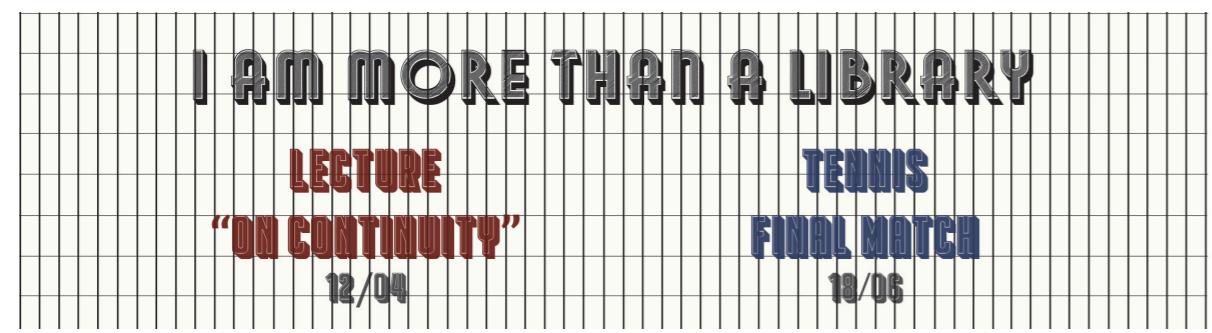
Municipality



Molenstraatkerk



Molenstraat elevation (North facing)



The screen

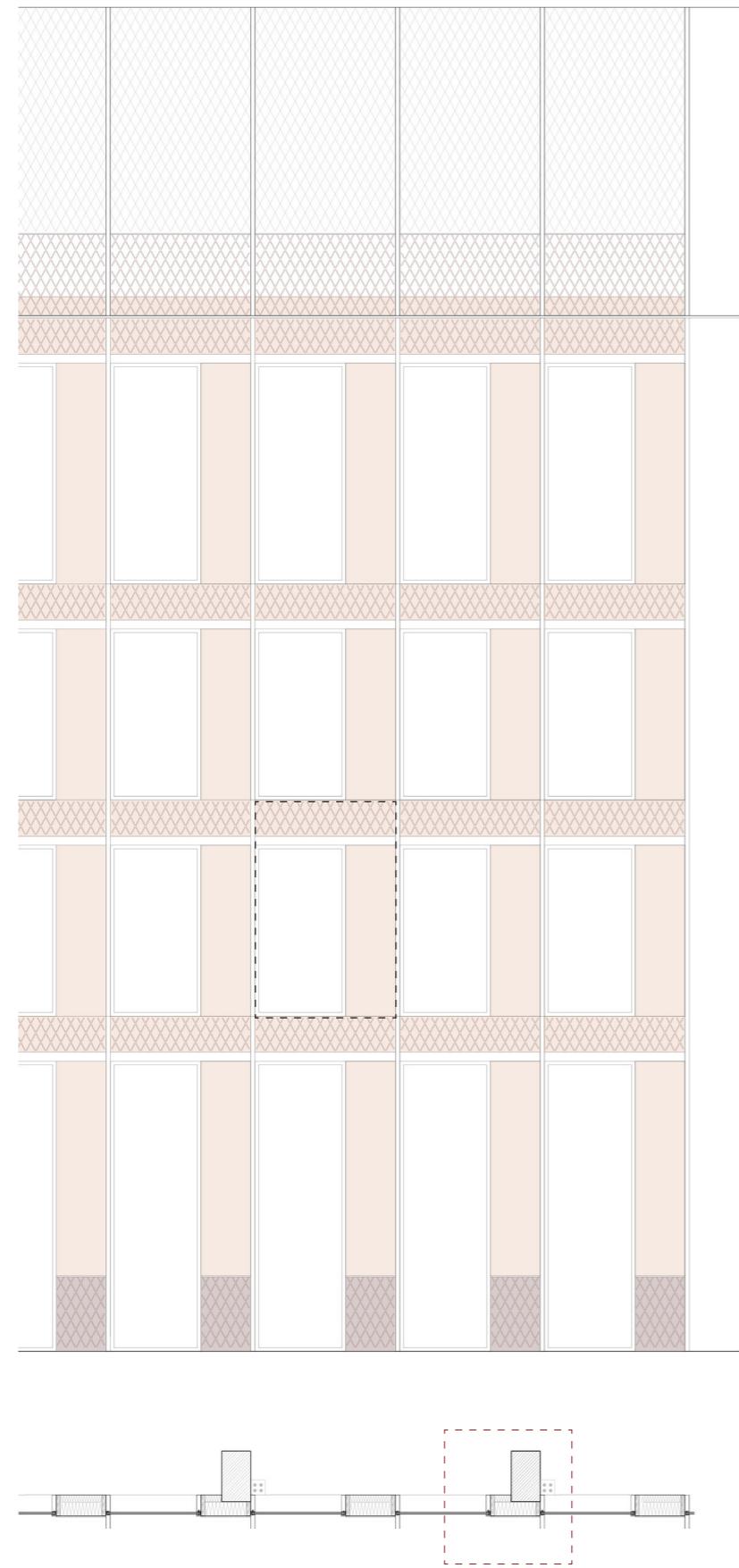
"I am a Monument" Robert Venturi, Denise Scott Brown and Steven Izenour, Learning from Las Vegas (1972)



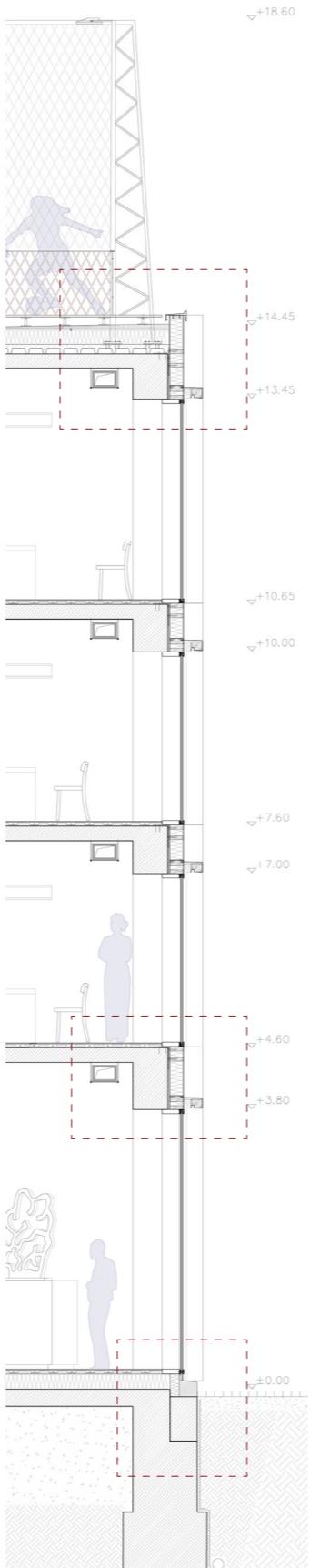
Street view, Molenstraat



The entrance



Alessandro de Cadilhac



Morris+Company, R7 (2017)



P5. Revealing Molenpoort

Floor

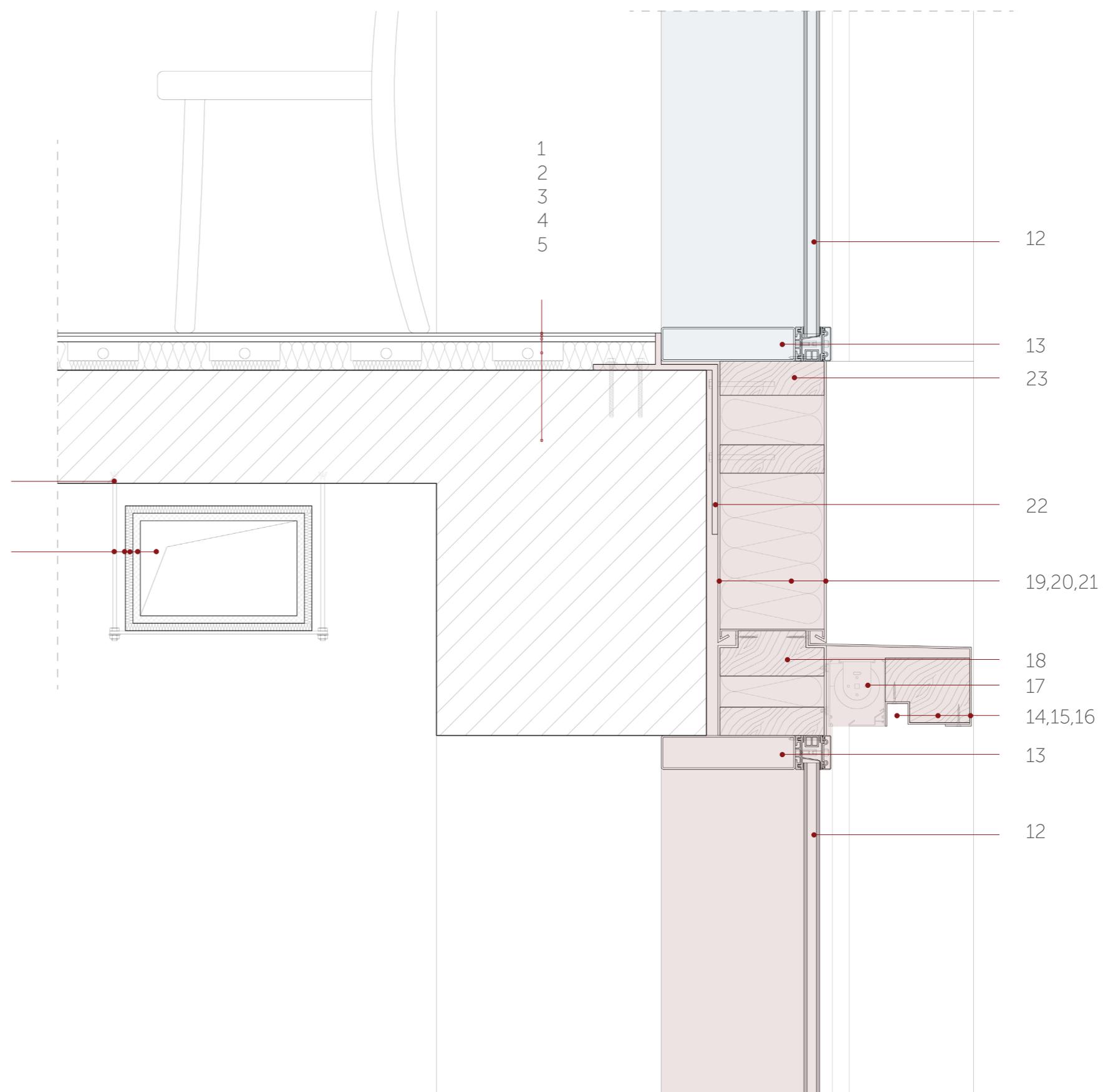
- 1 Top coat 2mm
- 2 Resin coat 8 mm
- 3 Primer coat 3mm
- 4 Radiant floor 50 mm
- 5 Existing floor 200 mm

Ventilation

- 6 Expansion bolt
- 7 Drop rod
- 8 Aliminium sheet 2 mm
- 9 Thermal insulation 25 mm
- 10 Acoustic insulation 25 mm
- 11 Ventilation duct

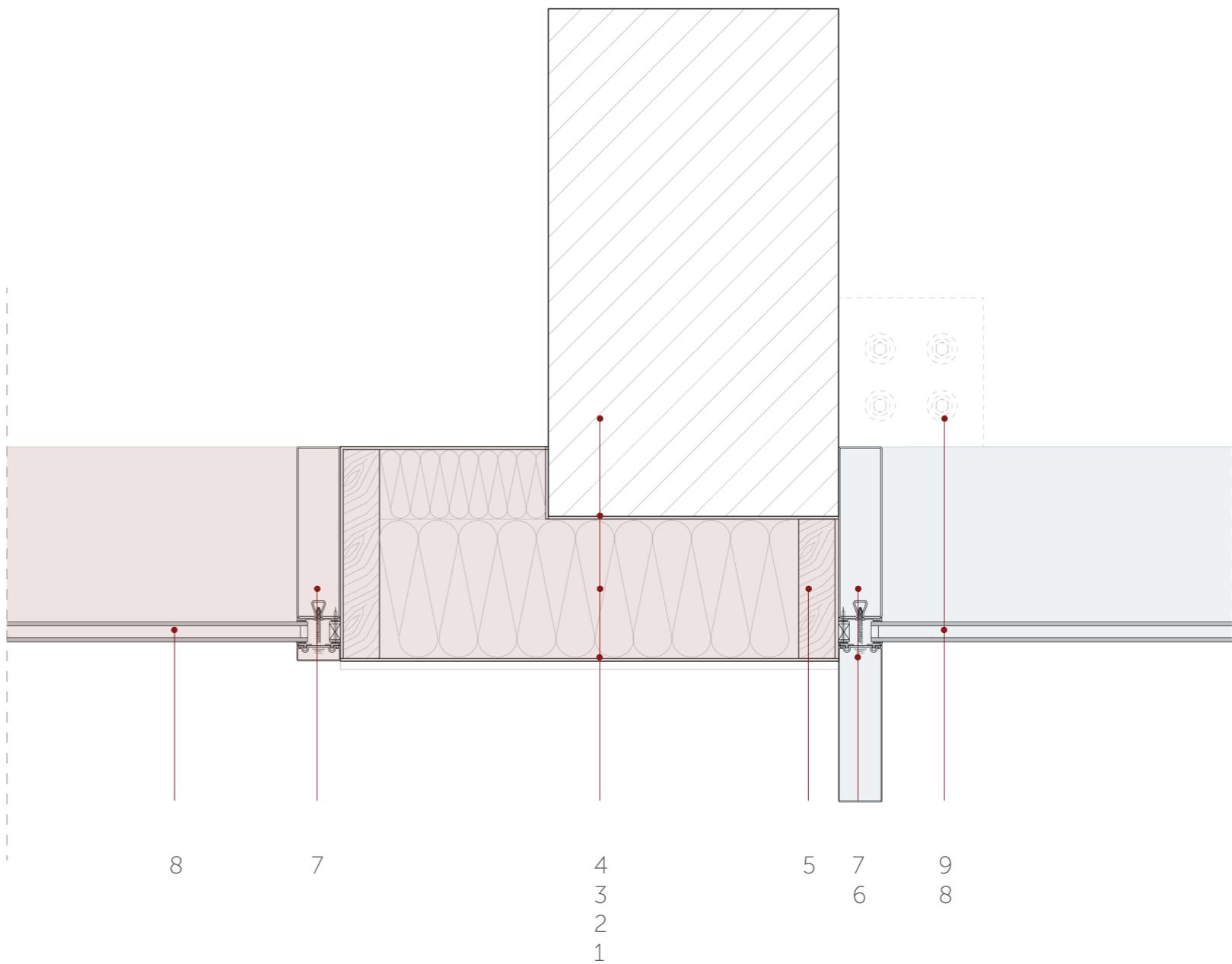
Cladding system

- 12 Double glazing 6 mm, 16 mm, 6 mm
- 13 Horizontal mullion
- 14 Drip inducer
- 15 Timber beam 150 mm
- 16 Aluminuin sheet 2 mm
- 17 Sun shading
- 18 Timber beam 180 mm
- 19 Aluminuin sheet 2 mm
- 20 Hempcrete insulation 180 mm
- 21 Aluminuin sheet 2 mm
- 22 Steel plate 10 mm
- 23 Timber beam 180 mm



Cladding system

- 1 Aluminium sheet 2 mm
- 2 Hempcrete insulation 180 mm
- 3 Aluminium sheet 2 mm
- 4 Existing column
- 5 Timber beam 180 mm
- 6 Vertical mullion, sun shading (south)
- 7 Aluminium frame
- 8 Double glazing 6 mm, 16 mm, 6 mm
- 9 Steel plate 10 mm (projection)



Floor

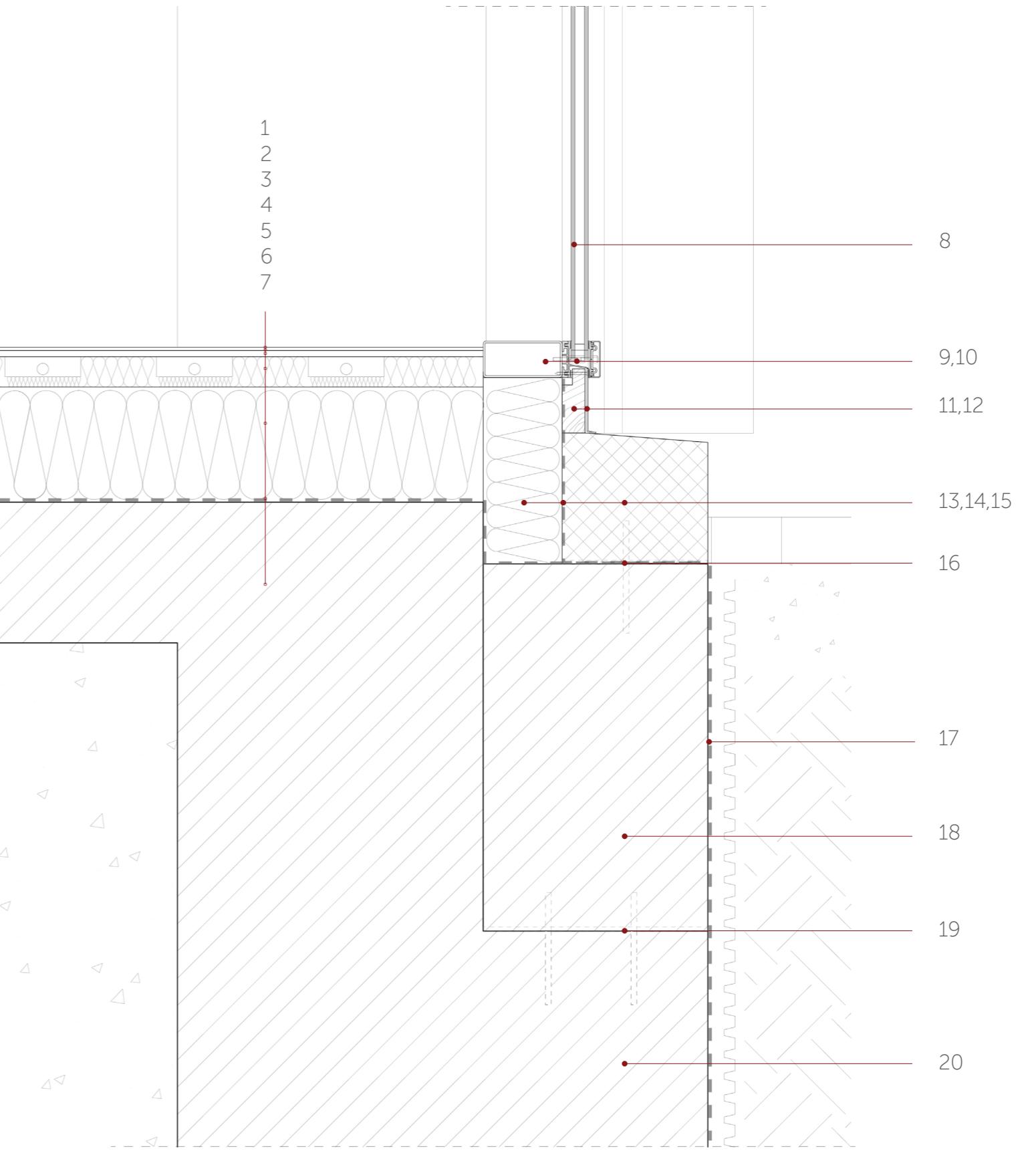
- 1 Top coat 2mm
- 2 Resin coat 8 mm
- 3 Primer coat 3mm
- 4 Radiant floor 50 mm
- 5 Hempcrete insulation 180 mm
- 6 Vapour barrier
- 7 Existing structure

Cladding

- 8 Double glazing 6 mm, 16 mm, 6 mm
- 9 Aliminium frame
- 10 Horizontal mullion
- 11 Timber beam 40 mm
- 12 Aluminium sheet, flashing 2 mm
- 13 Hempcrete insulation 130 mm
- 14 Waterproofing membrane
- 15 Limestone 240 mm

Foundation

- 16 Metal plate
- 17 Waterproofing membrane
- 18 Foundation
- 19 Metal plate
- 20 Existing foundation



Roof

- 1 Limestone
- 2 Pedestal
- 3 Waterproofing membrane
- 4 Rockwool insulation board slope 1.5%
- 5 Hempcrete insulation 180 mm
- 6 Concrete floor
- 7 Decking sheet
- 8 Existing structure
- 9 Metal cap
- 10 Metal railing
- 11 Steel structure for sport net

Cladding

- 12 Double glazing 6 mm, 16 mm, 6 mm
- 13 Horizontal mullion
- 14 Drip inducer
- 15 Timber beam 150 mm
- 16 Aluminium sheet 2 mm
- 17 Sun shading
- 18 Timber beam 180 mm
- 19 Aluminium sheet 2 mm
- 20 Hempcrete insulation 180 mm
- 21 Aluminium sheet 2 mm
- 22 Steel plate 10 mm
- 23 Timber beam 180 mm

Ventilation

- 24 Expansion bolt
- 25 Drop rod
- 26 Aluminium sheet 2 mm
- 27 Thermal insulation 25 mm
- 28 Acoustic insulation 25 mm
- 29 Ventilation duct

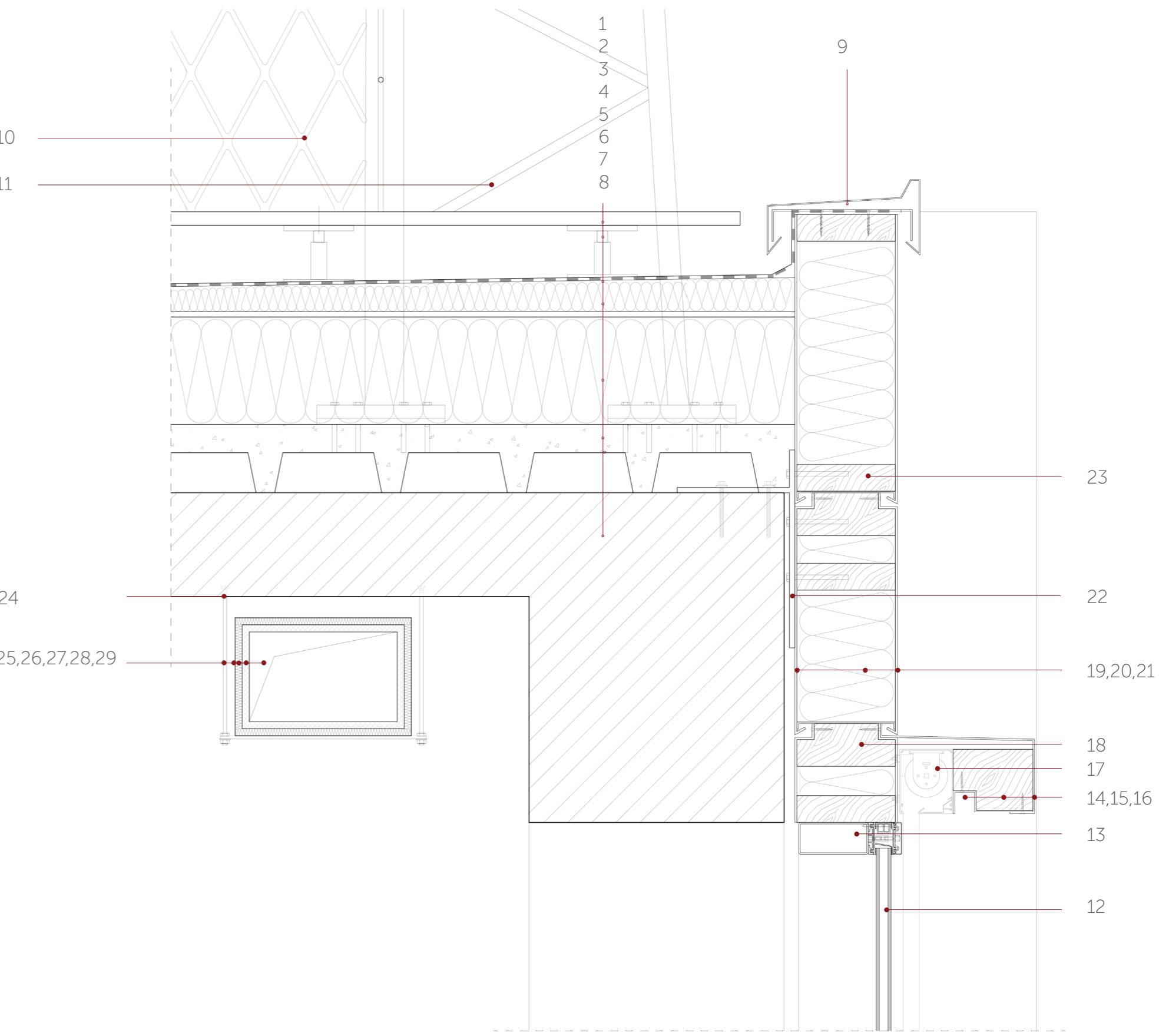




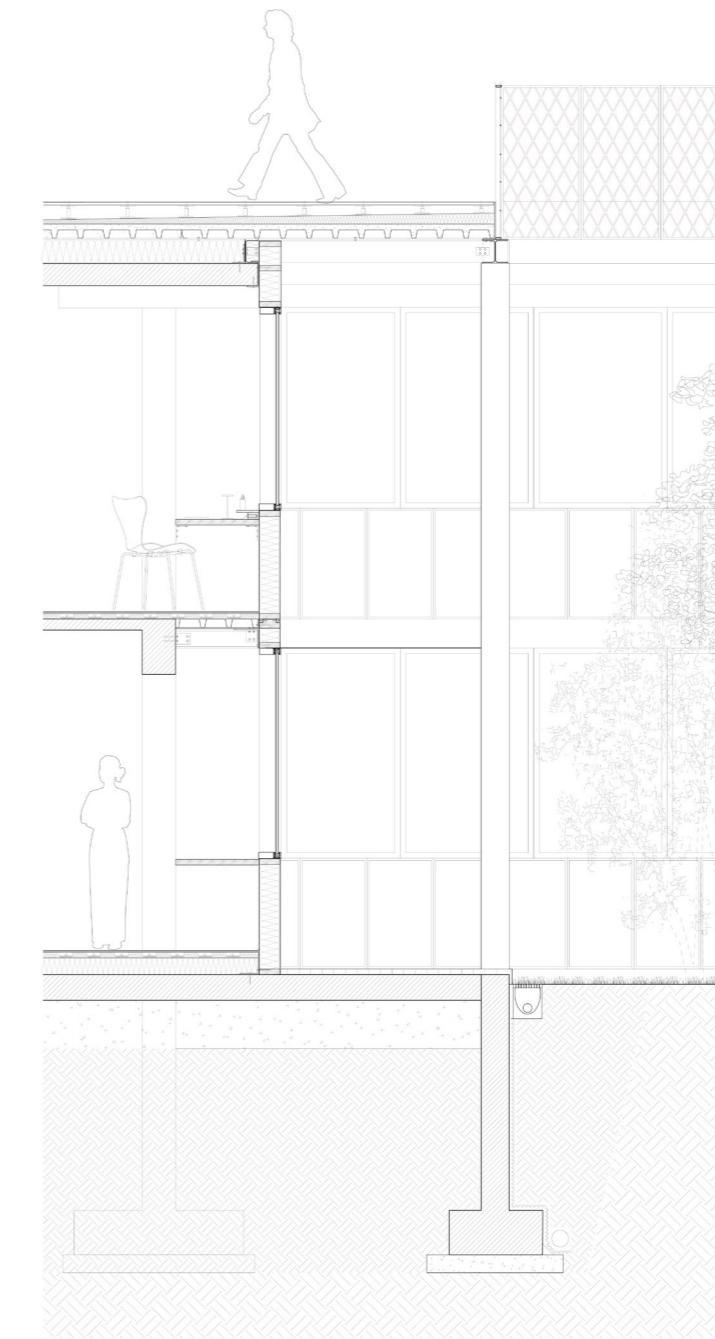
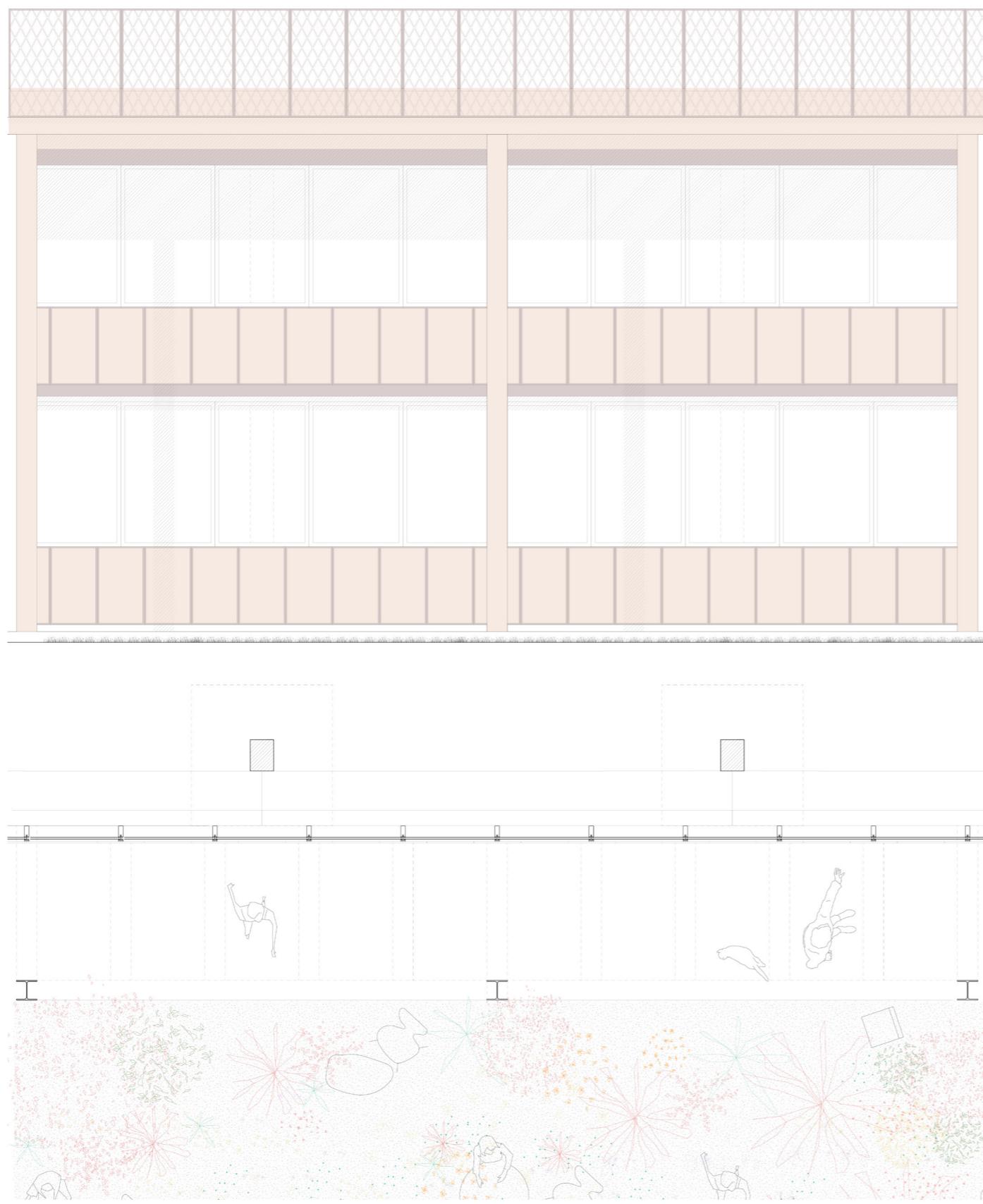
Photo by Ruby Hall and Yannick Blattner



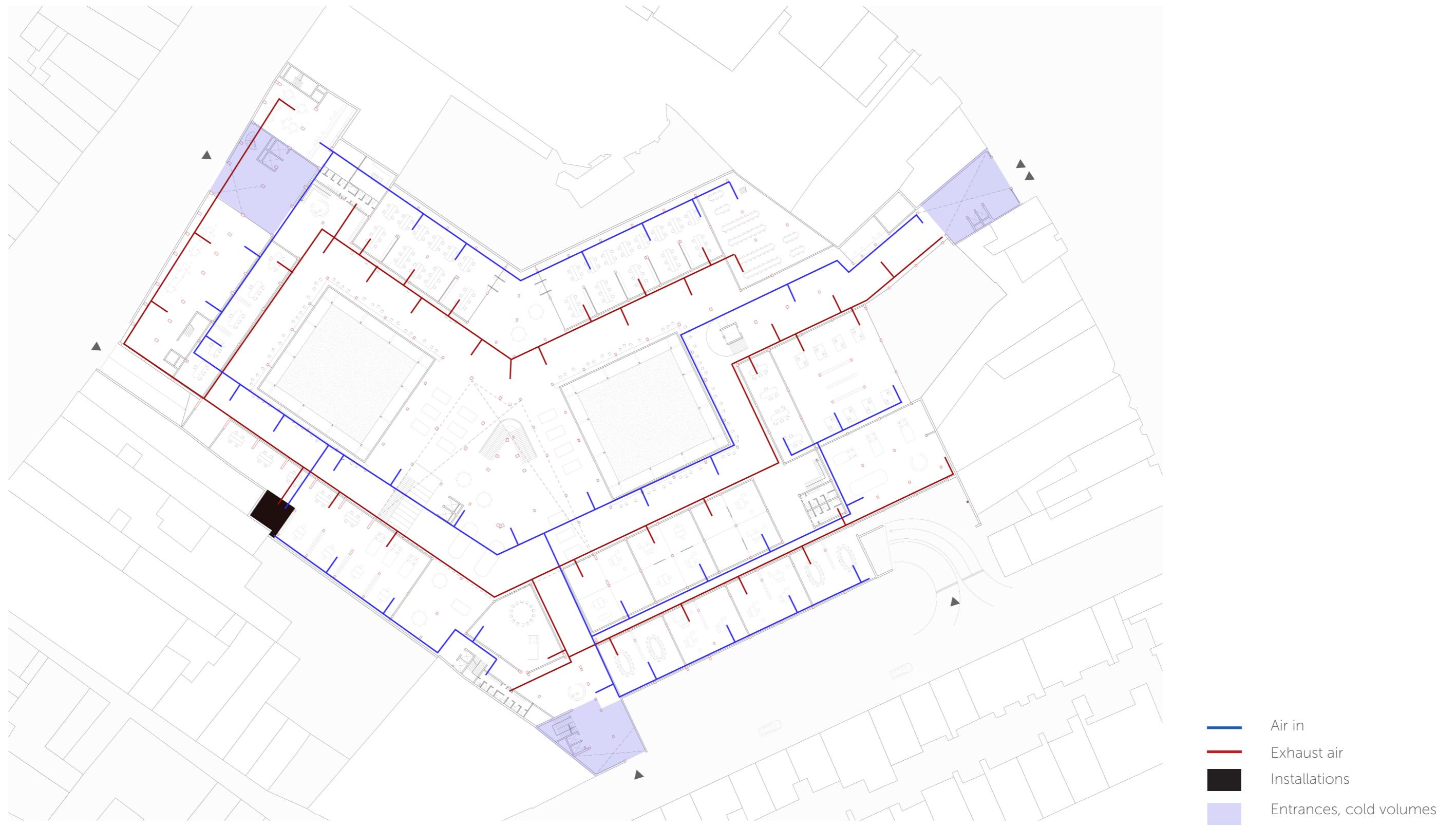
Study space facing the courtyard

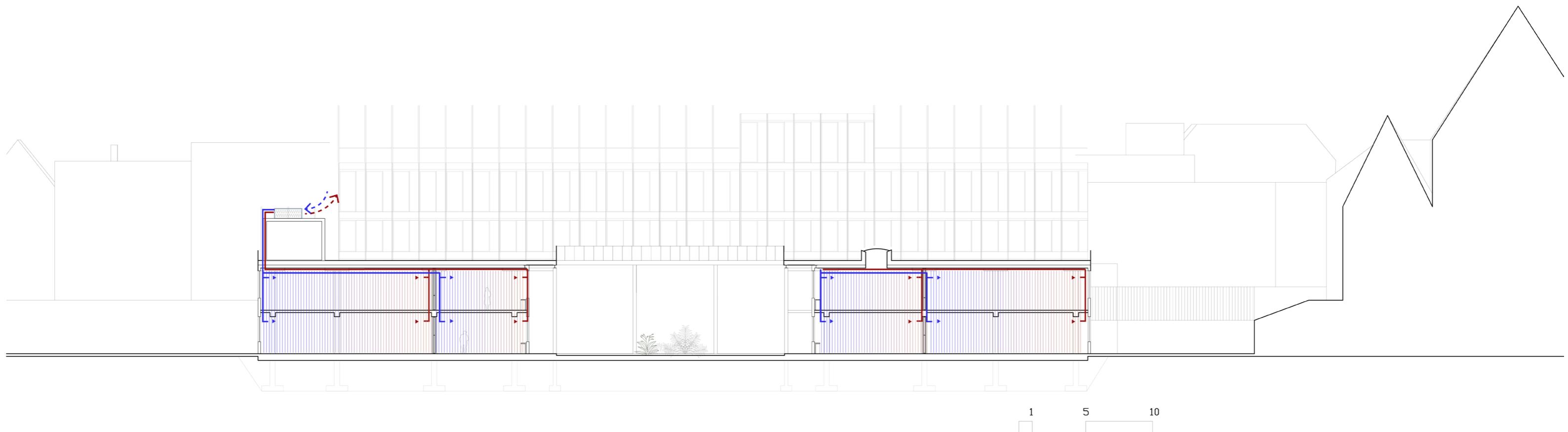


The courtyard

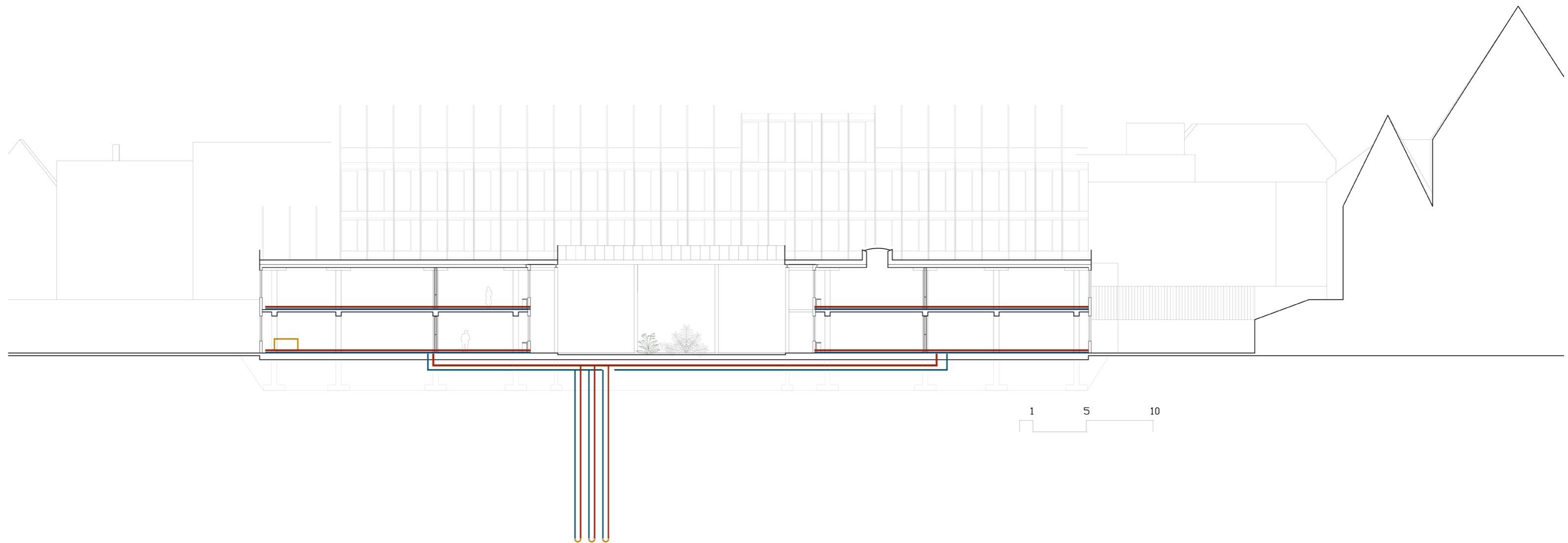


Mechanical ventilation

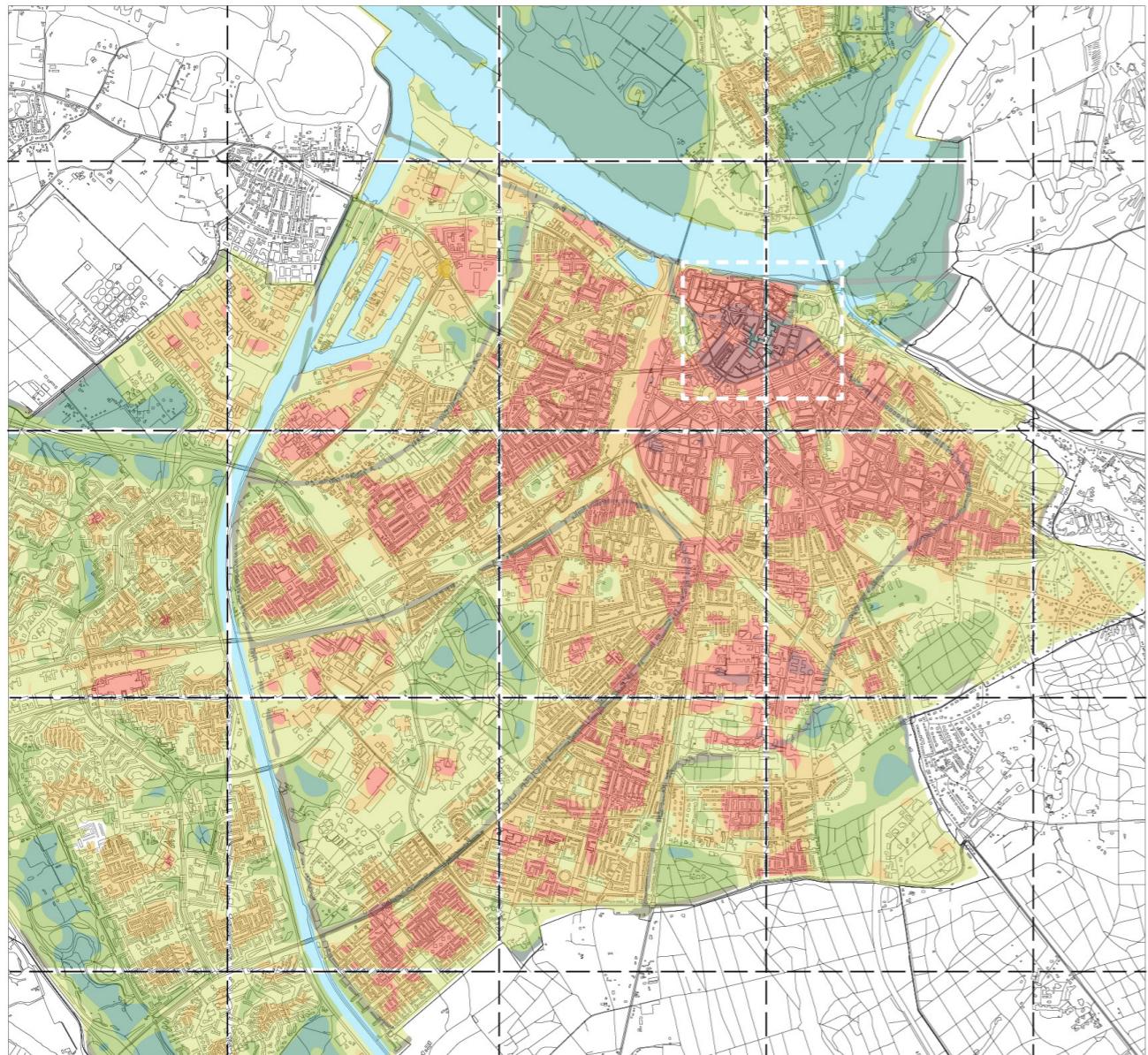




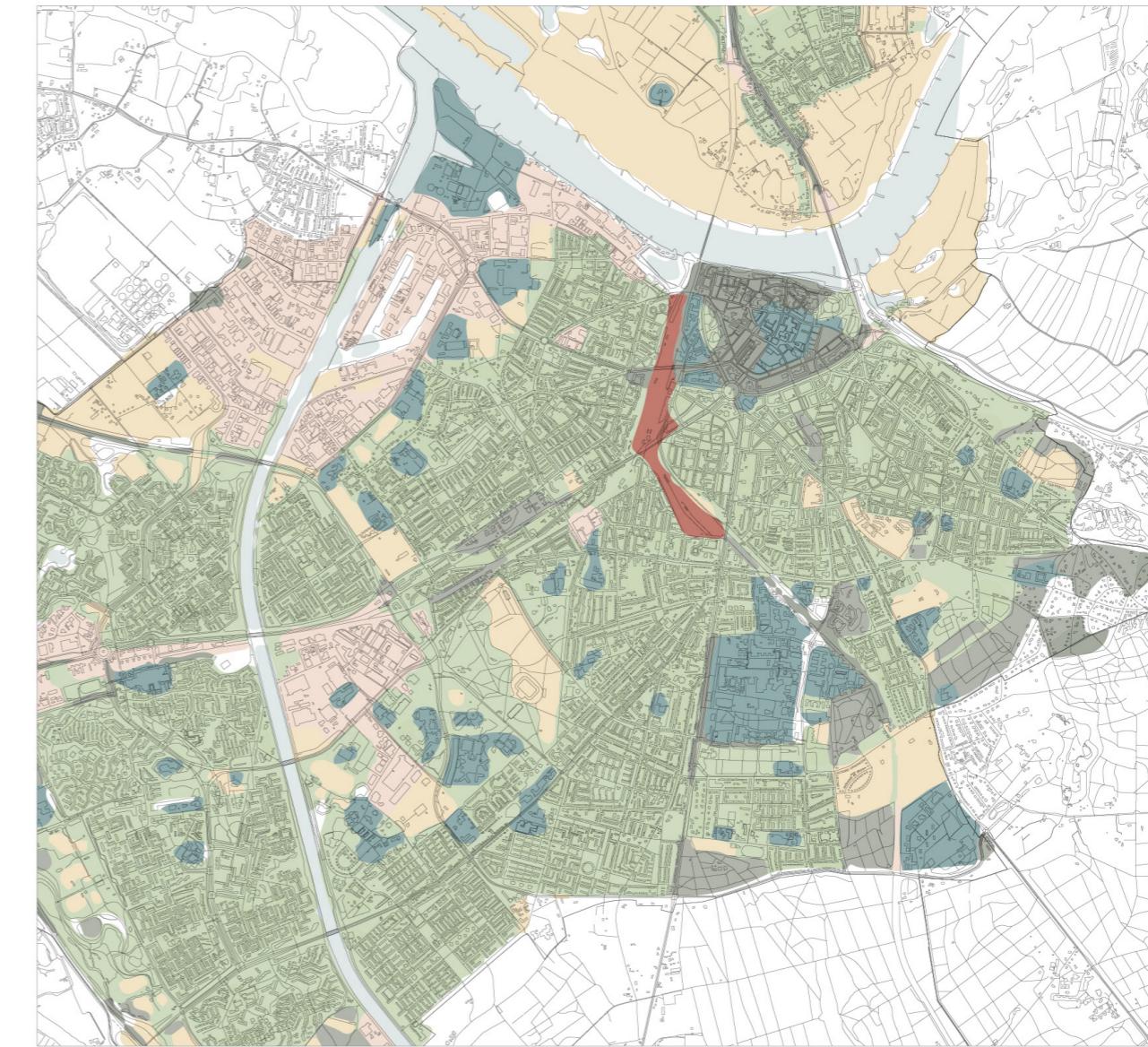
Heat recovery system



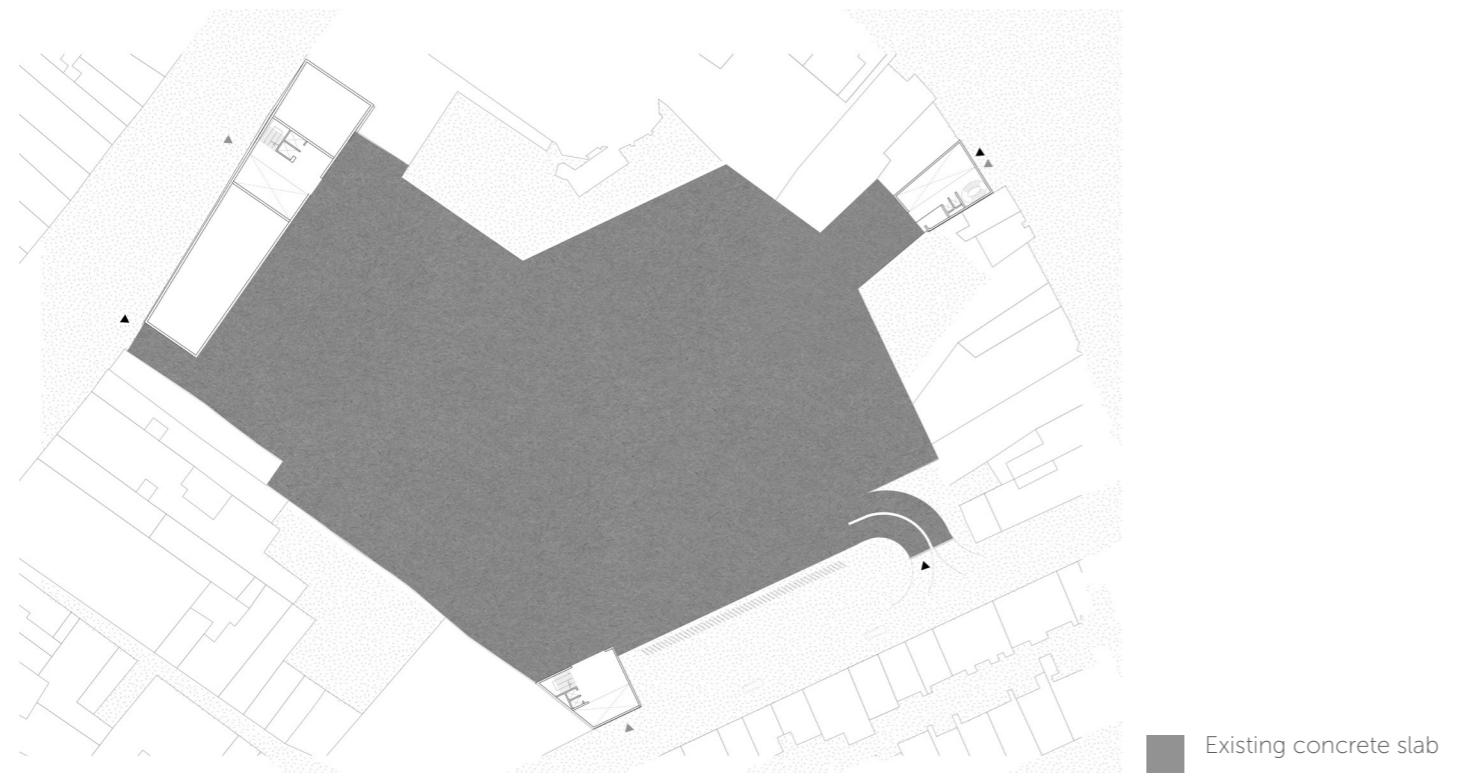
Geothermal system with vertical collectors



Temperature analysis of Nijmegen



Climatope map of the city of Nijmegen (Shuangyu Han, Yinan Ji, 2009)



LA Painting Streets White

