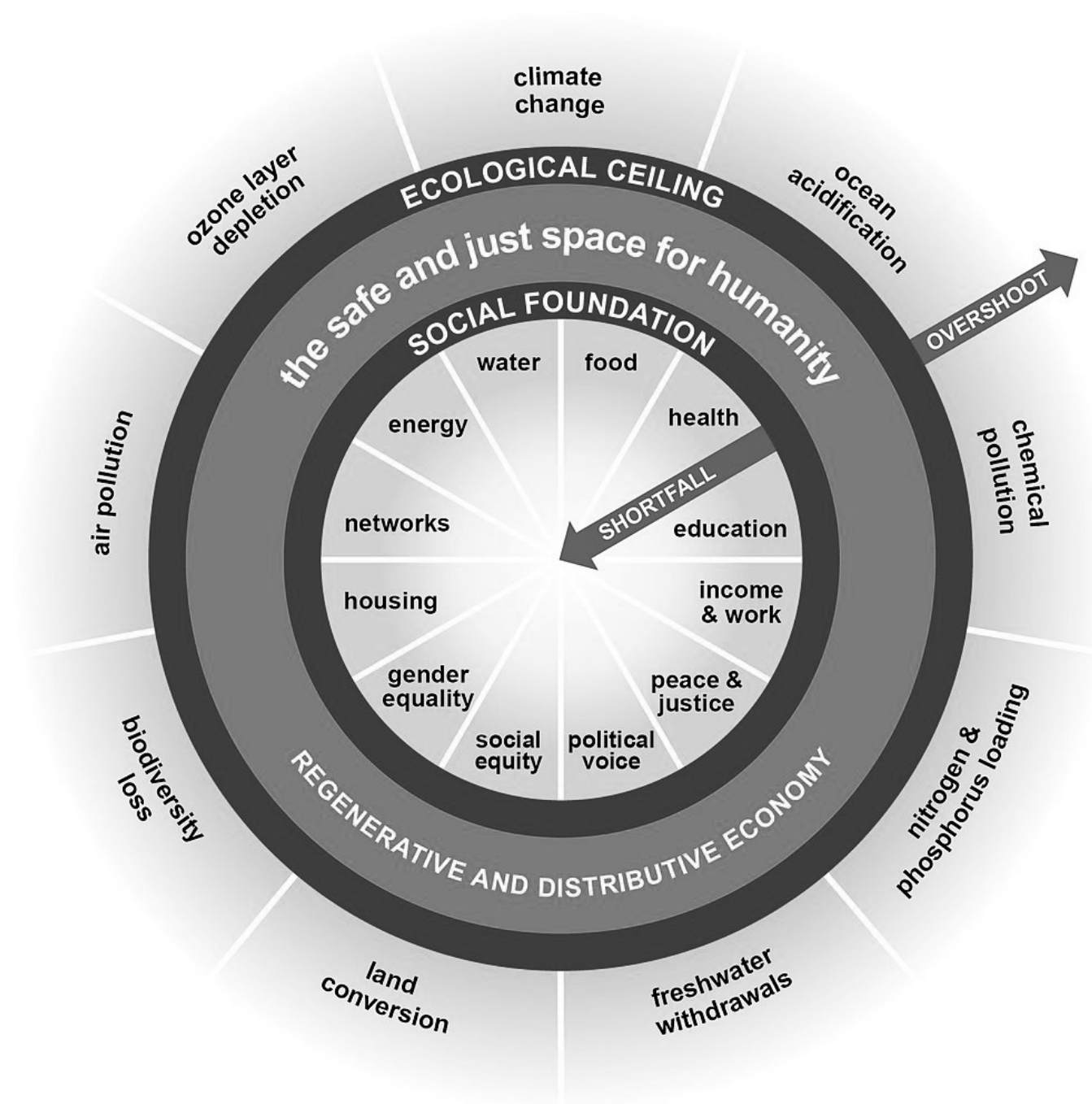


Interiors Buildings Cities Graduation Project P4 review
Respite care hotel in Amsterdam

2021.06.29
Siteng Liu
5084962

Main mentor: Sam de Vocht
2nd mentor: Matthijs Klooster
3rd mentor: Daniel Rosbottom





model of Doughnut

(Kate Raworth, Doughnut Economics: Seven Ways to Think Like a 21st-Century Economist, 2017)

Towards **doughnut**: from tourism to local community



preliminary design: a living playground

Defining **hotel**: healthcare as a type of hospitality

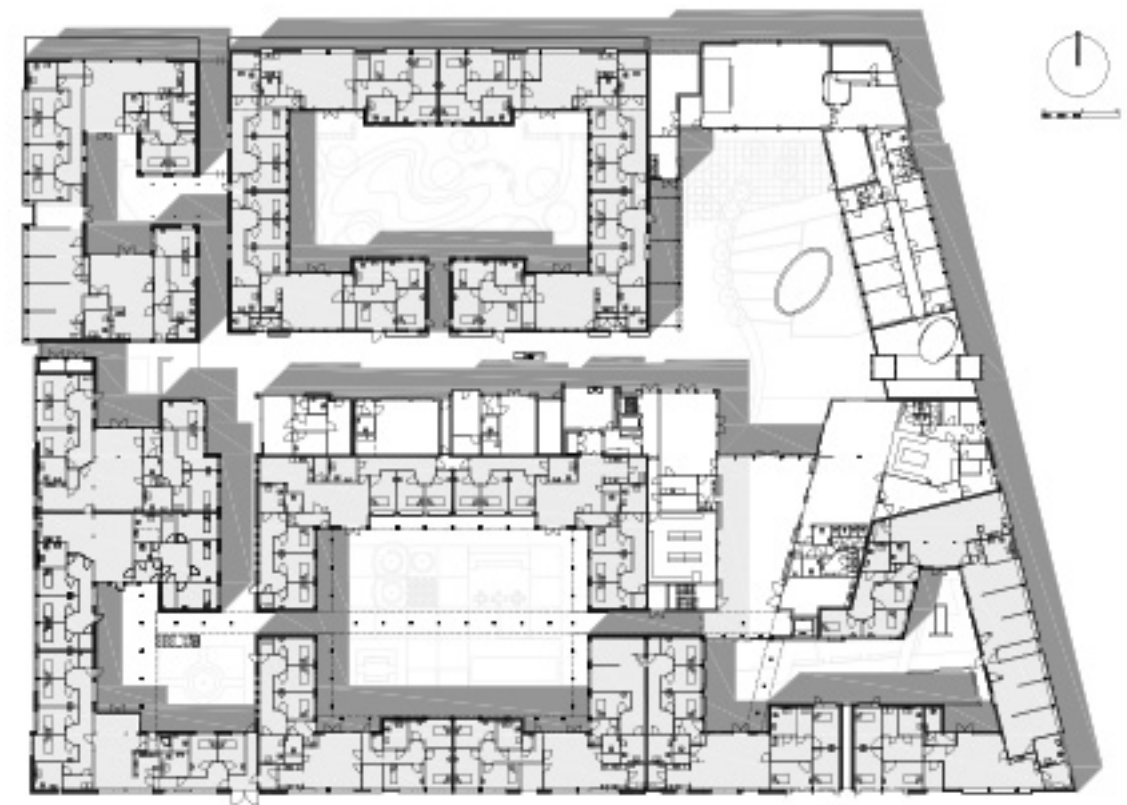


Hôtel-Dieu in Paris
(colletive drawing of the studio)

the tradition of care in the city

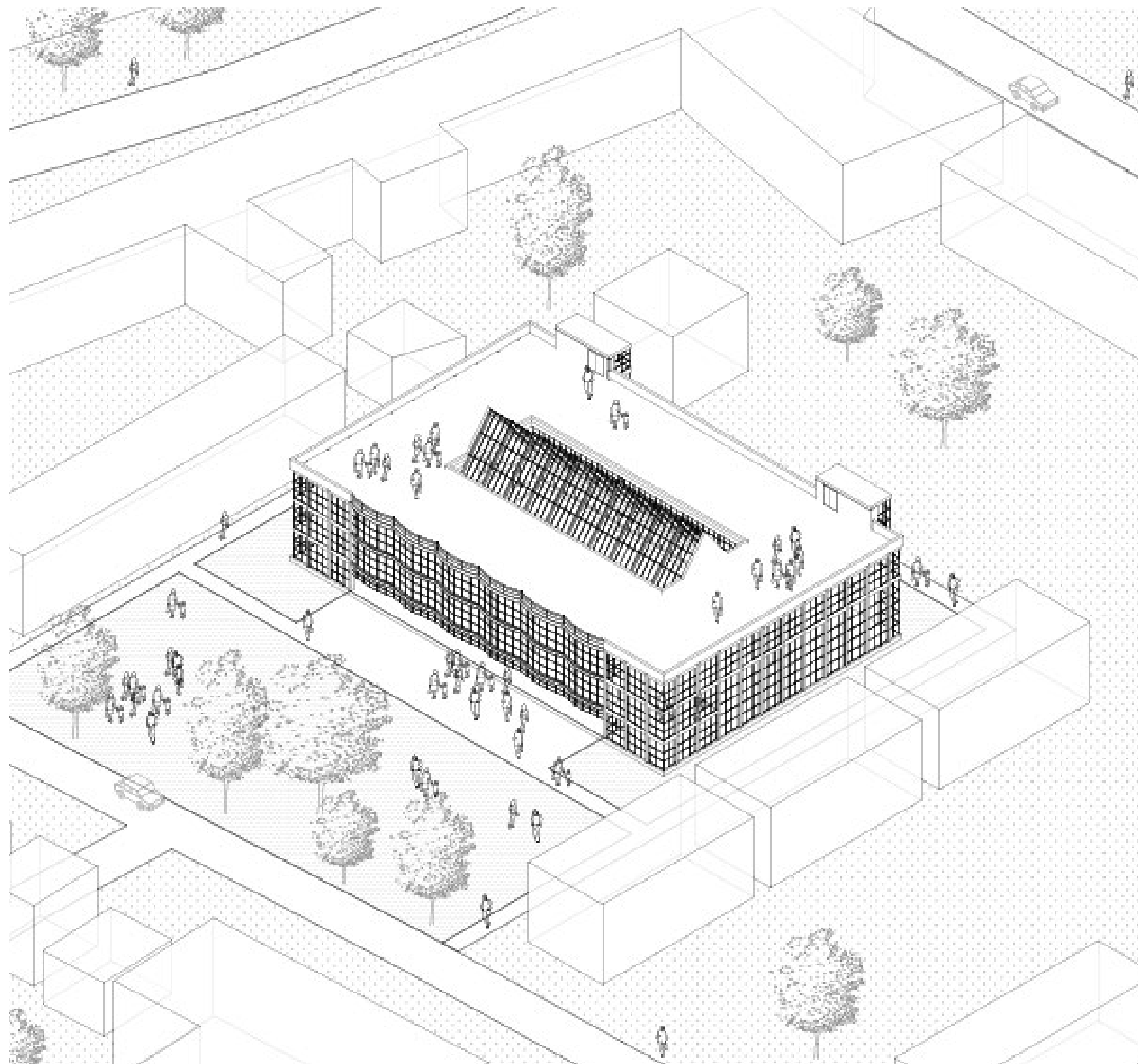


palmio sanitorium
(colletive drawing of the studio)



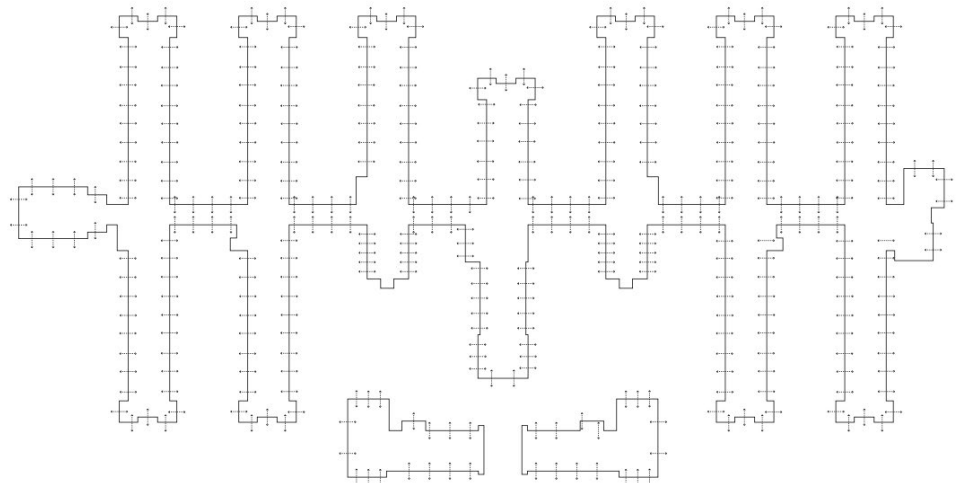
The Hogeweyk dementia village
(DVA)

isolation from the city

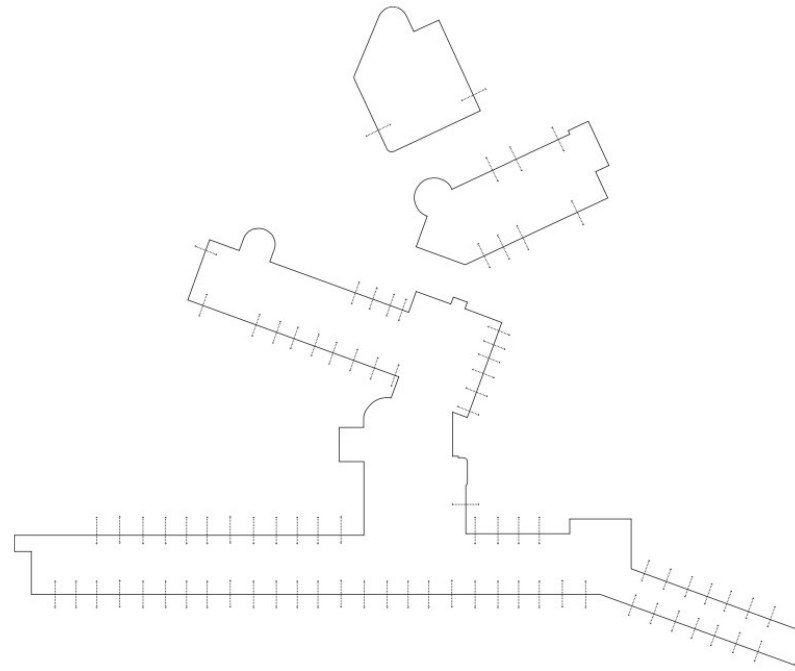


Pioneer health center
(colletive drawing of the studio)

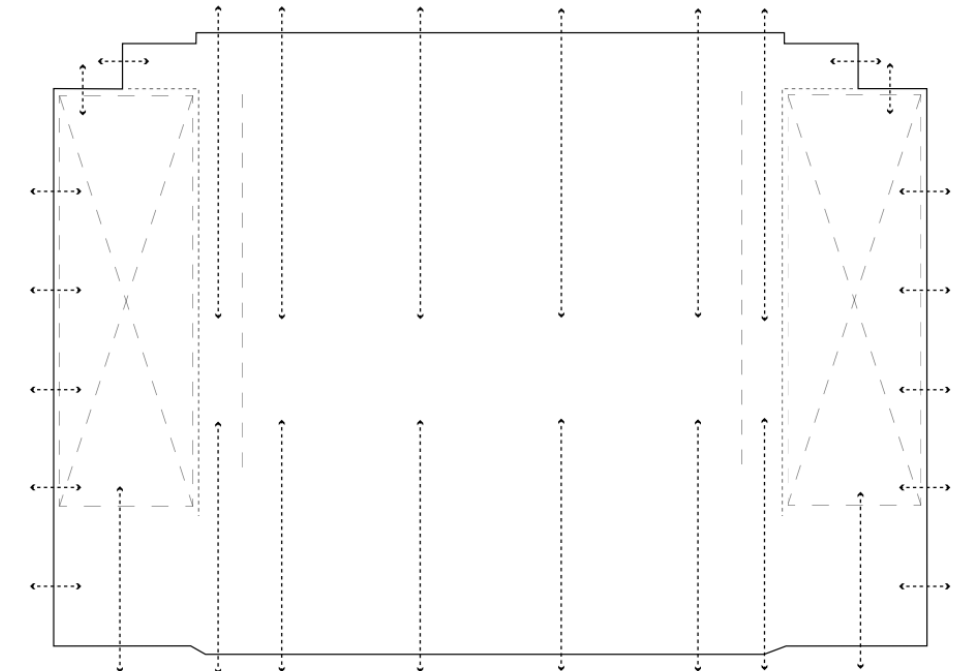
healthcare as a center of neighbourhood



Royal Herbert hospital



Paimio Sanatorium



The Pioneer Health Centre
(collective drawing of the studio)

open gesture of modern healthcare buildings, interface for sun light and fresh air

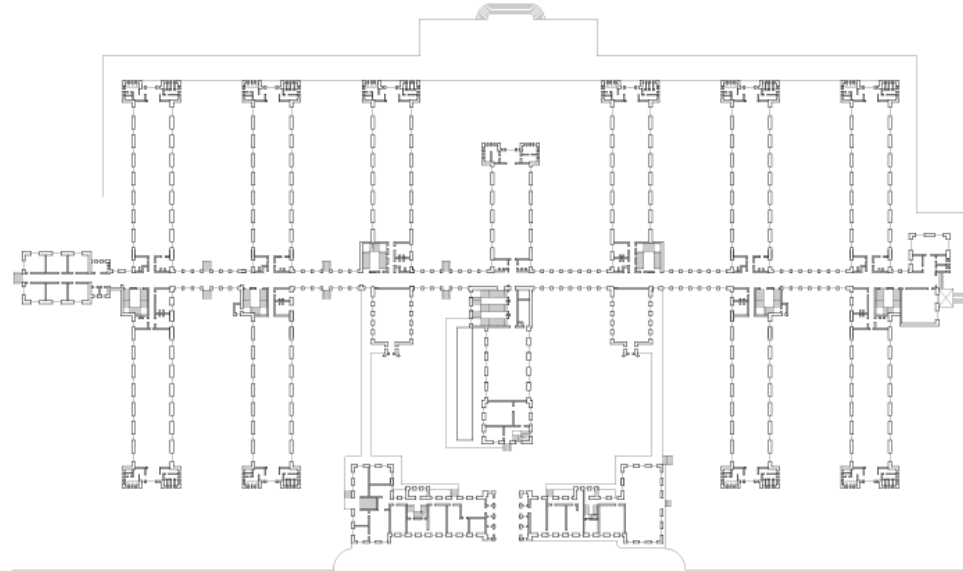


sun terrace of Paimio sanitorium

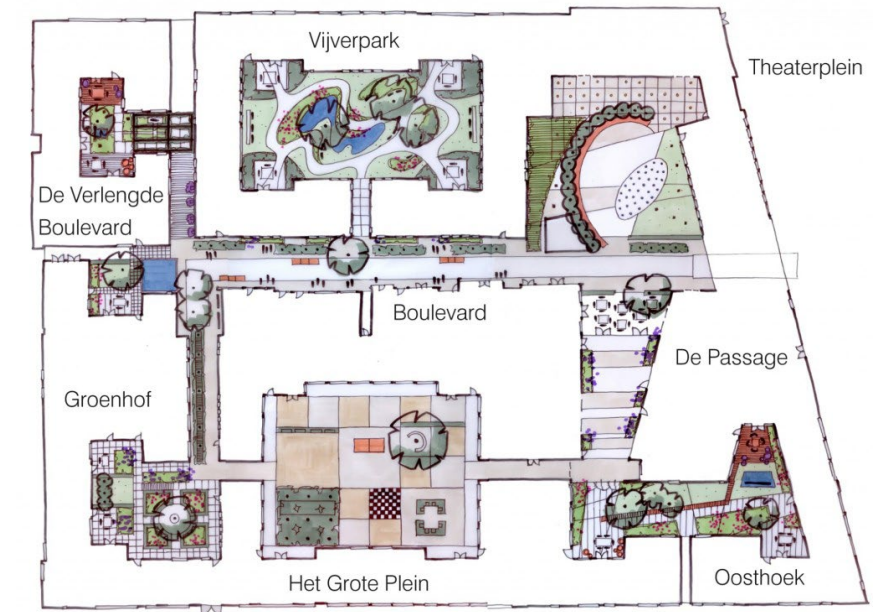
nature as a way of cure



the cloister of the Hôtel-Dieu in Beaune



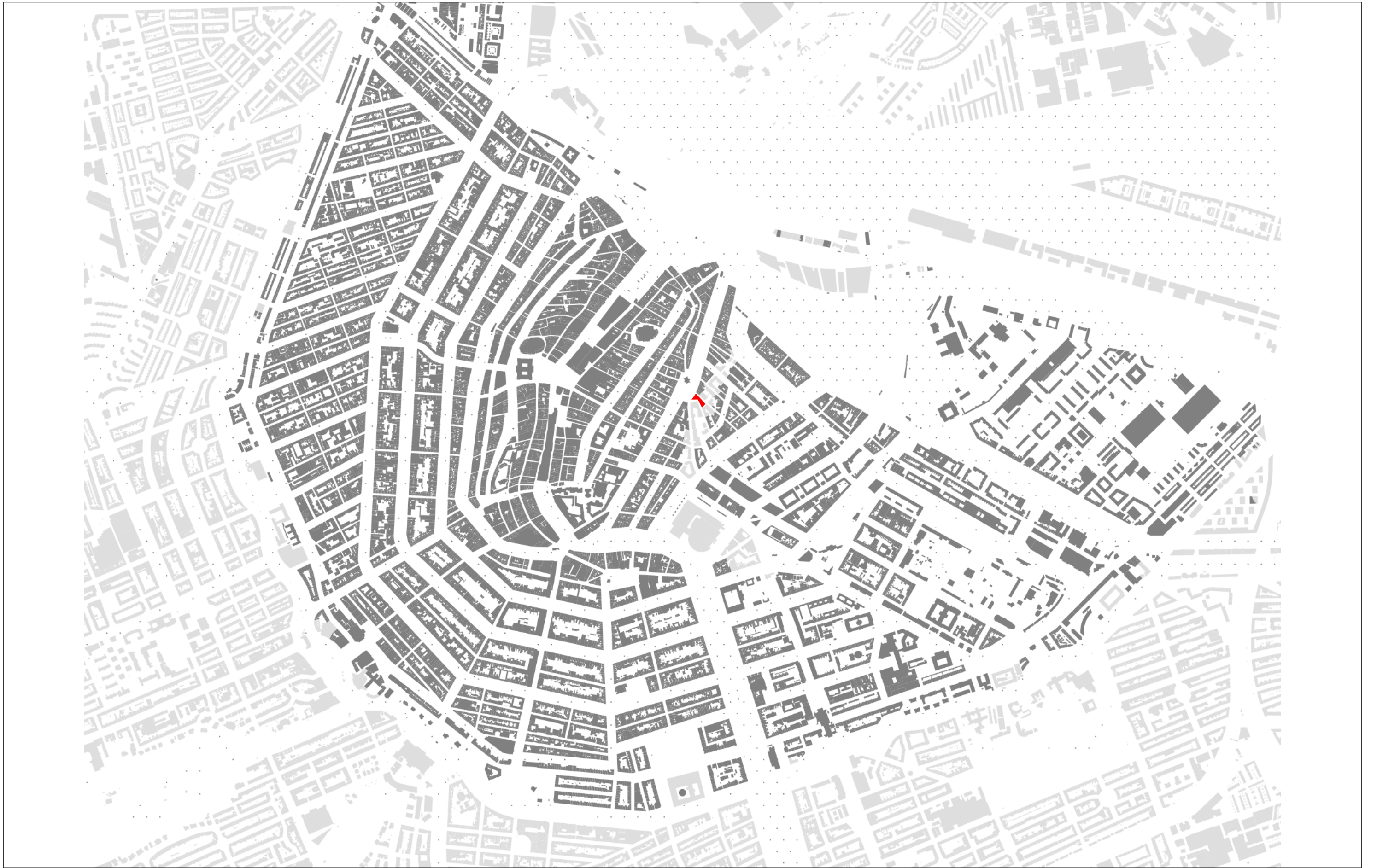
long corridor for efficient service
(Royal herbert hospital)



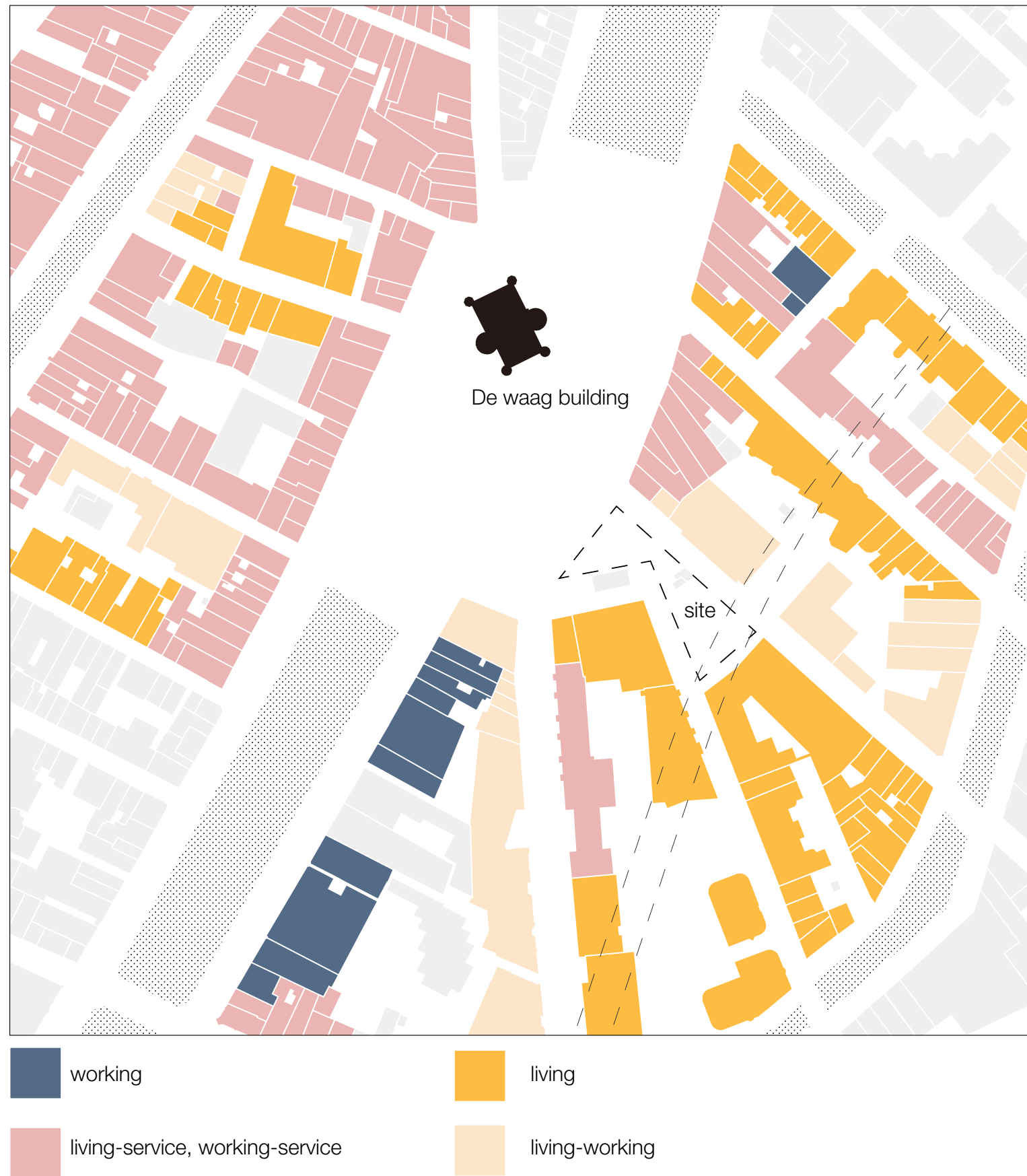
wandering route for people with dementia
(DVA)

the notion of walking in the building

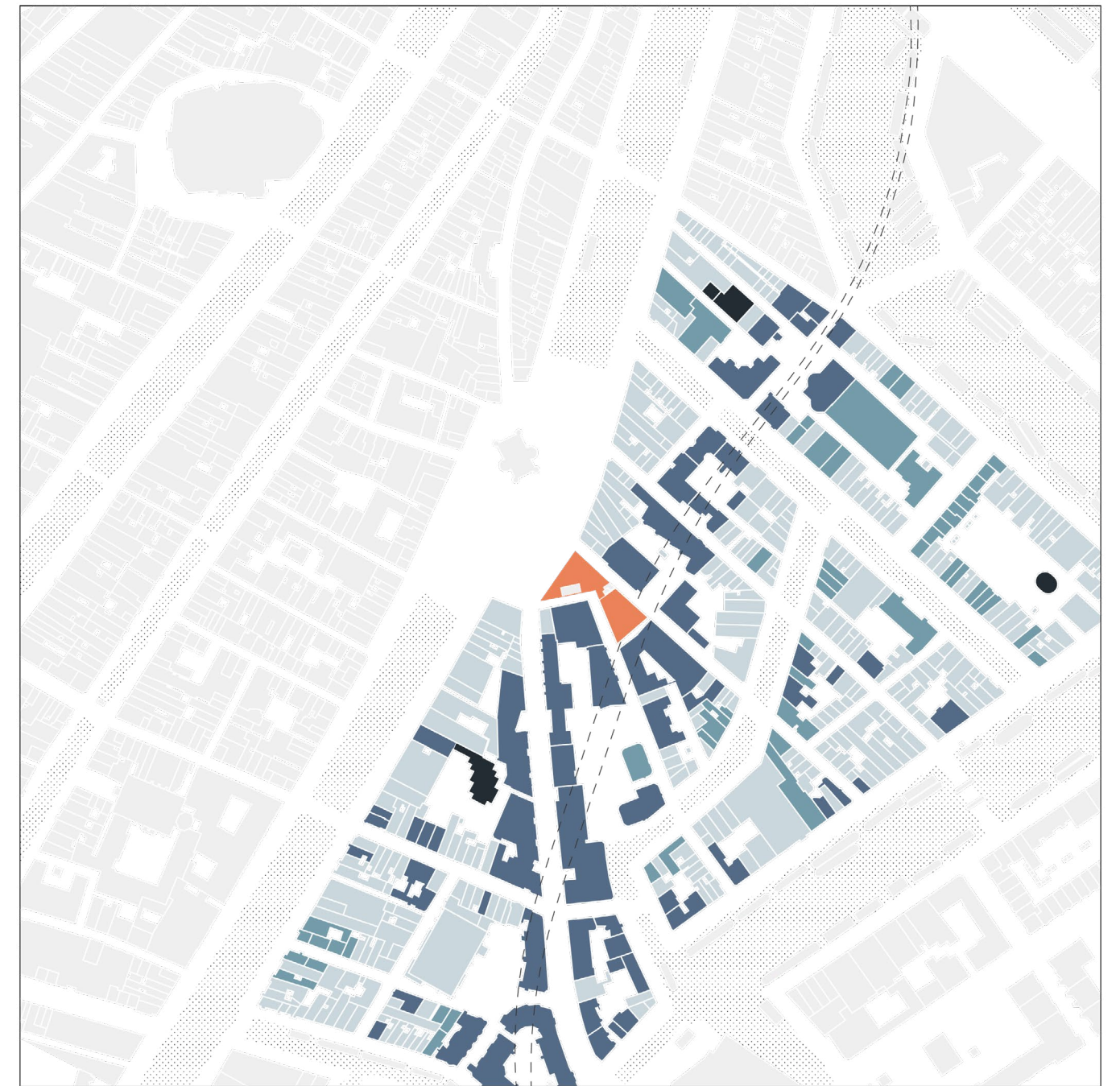
urban context: historical center, infrastructure, and elderly care facilities



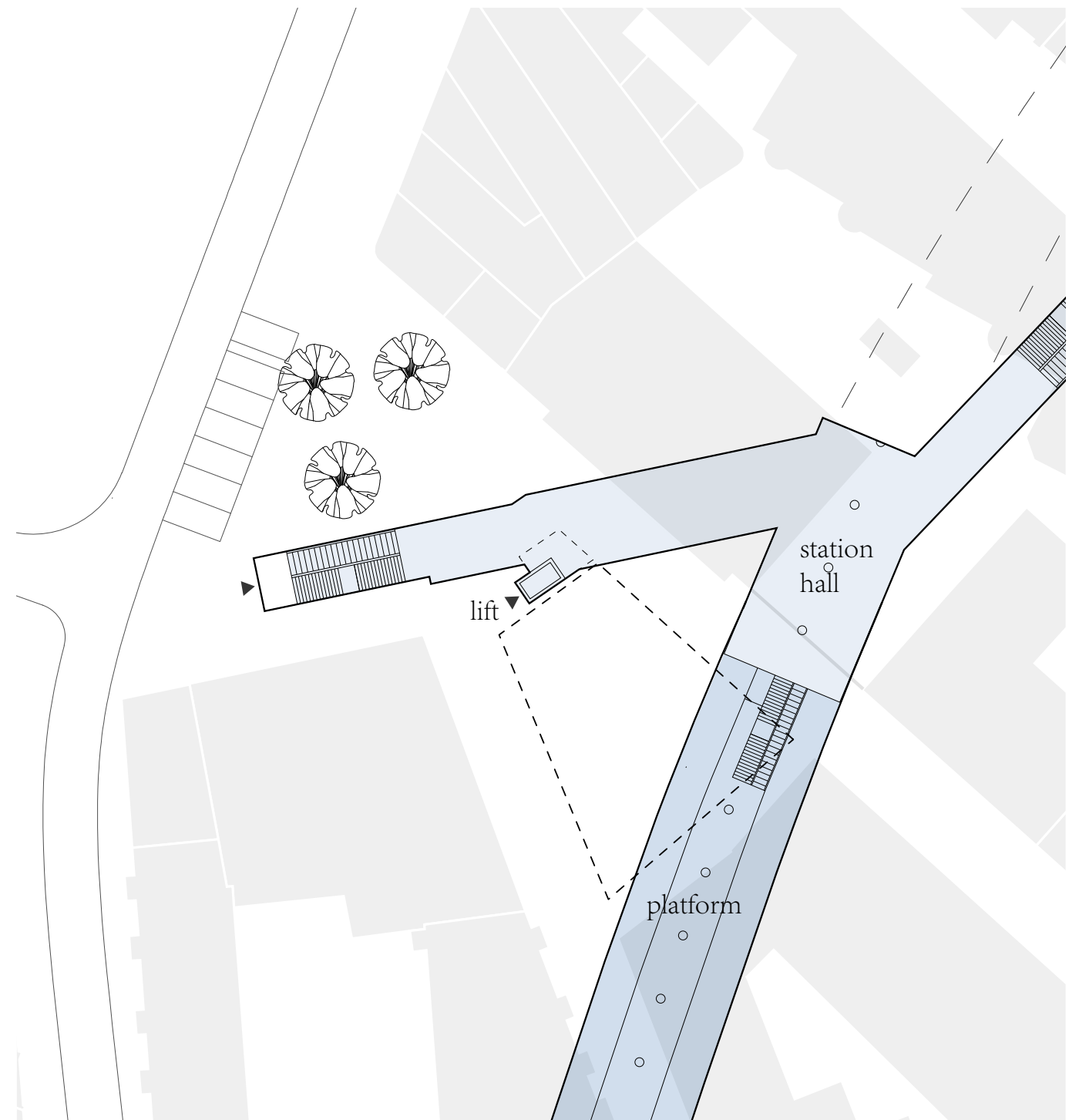
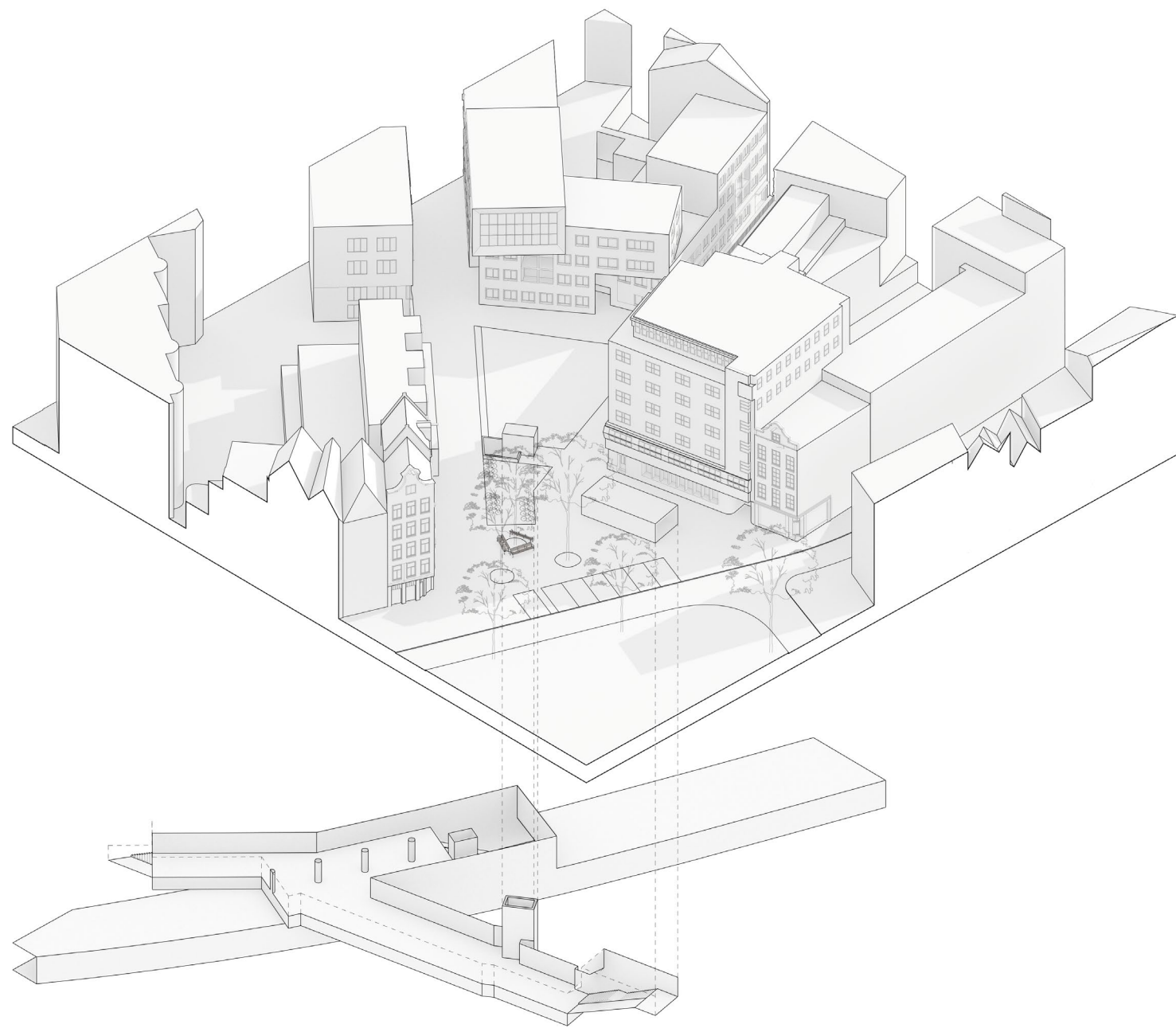
city plan



a residential neighborhood in the city center



construction of metro station shaped the surroundings



metro entrances



preliminary design, reclaiming infrastructure space as active urban space



lift

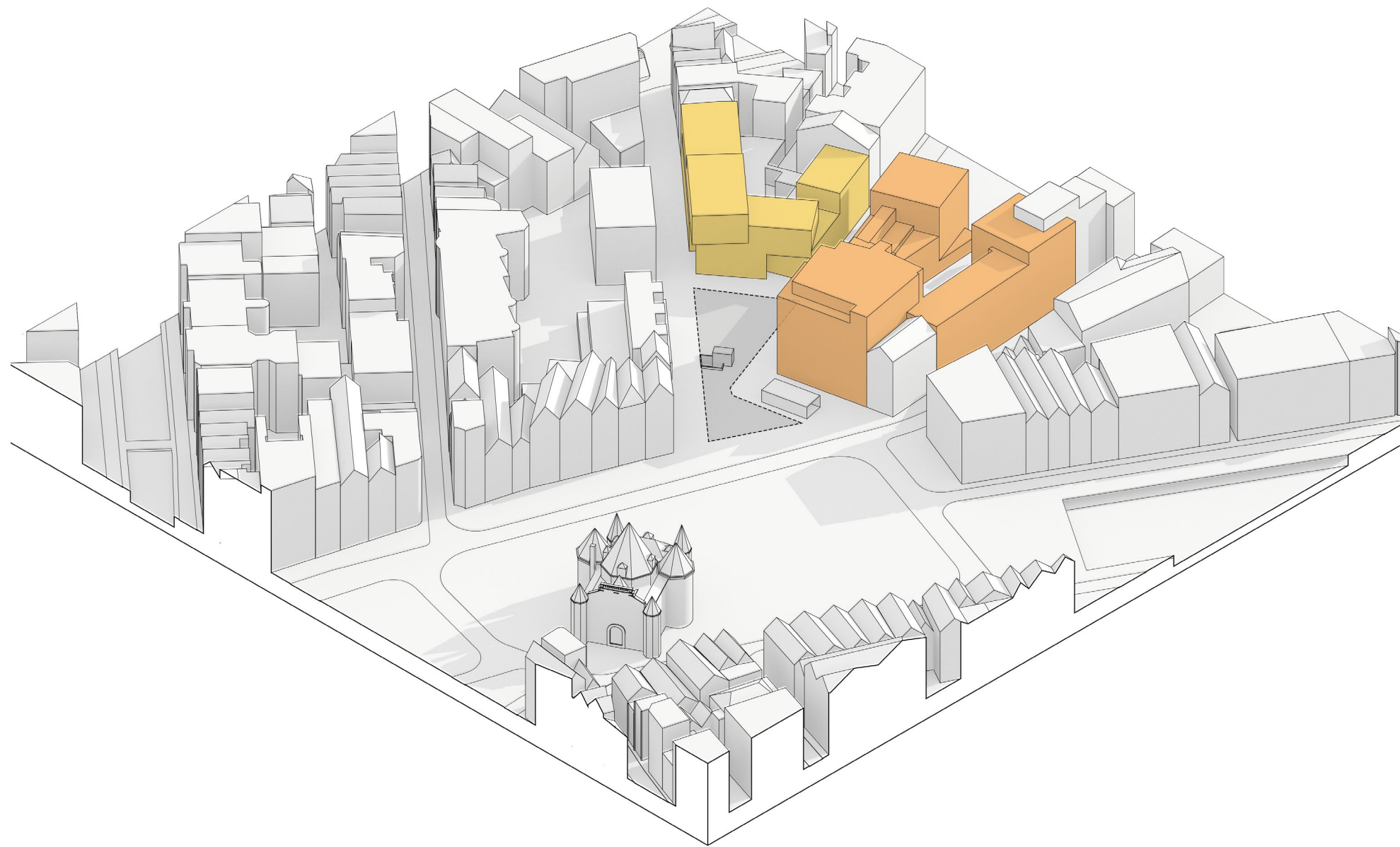


staircase



pocket park

space to activate



existing long-term elderly care facilities



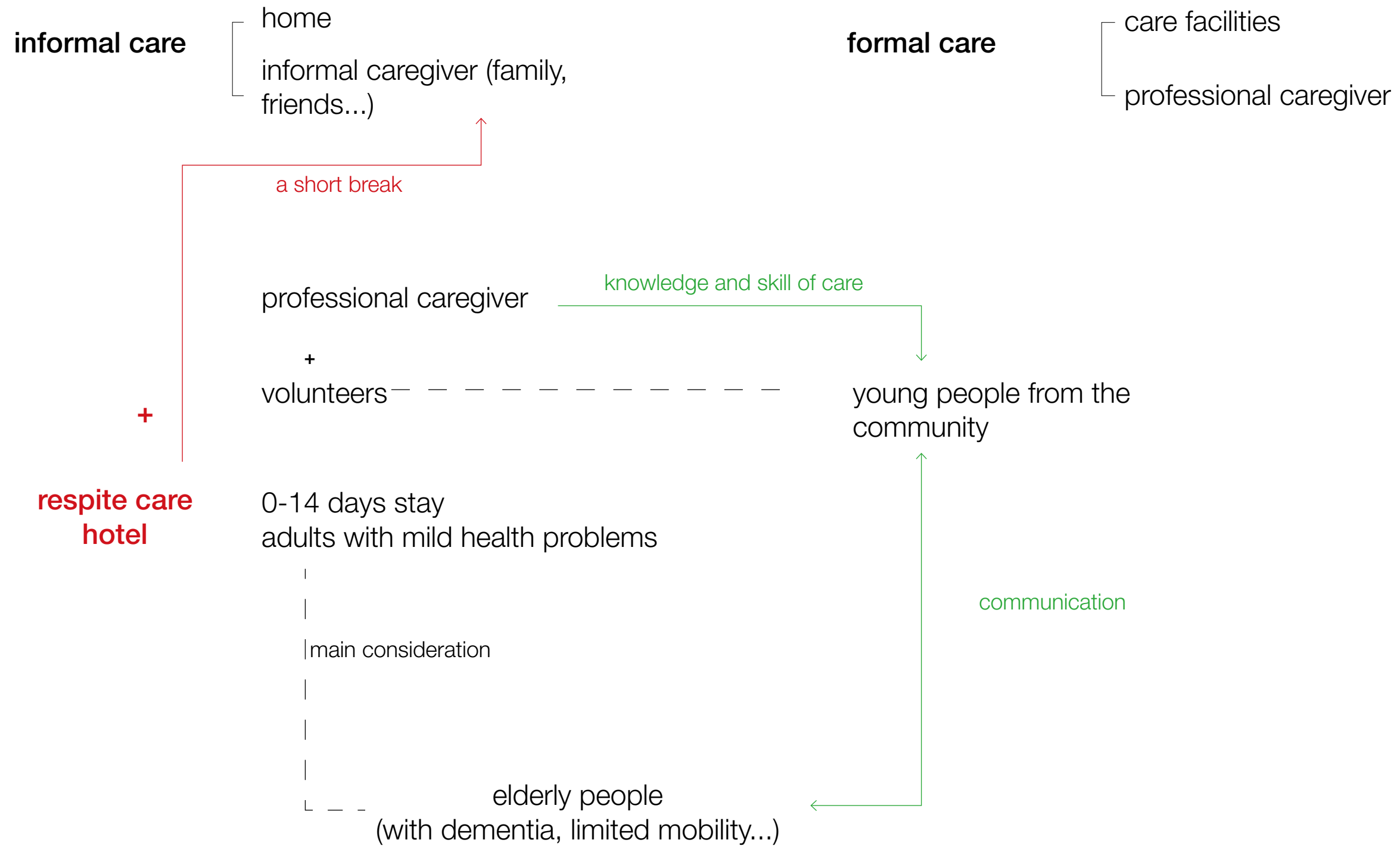
care home for elderly with dementia



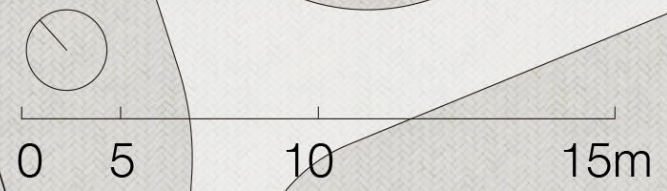
flesseman-elderly care center

respite care hotel

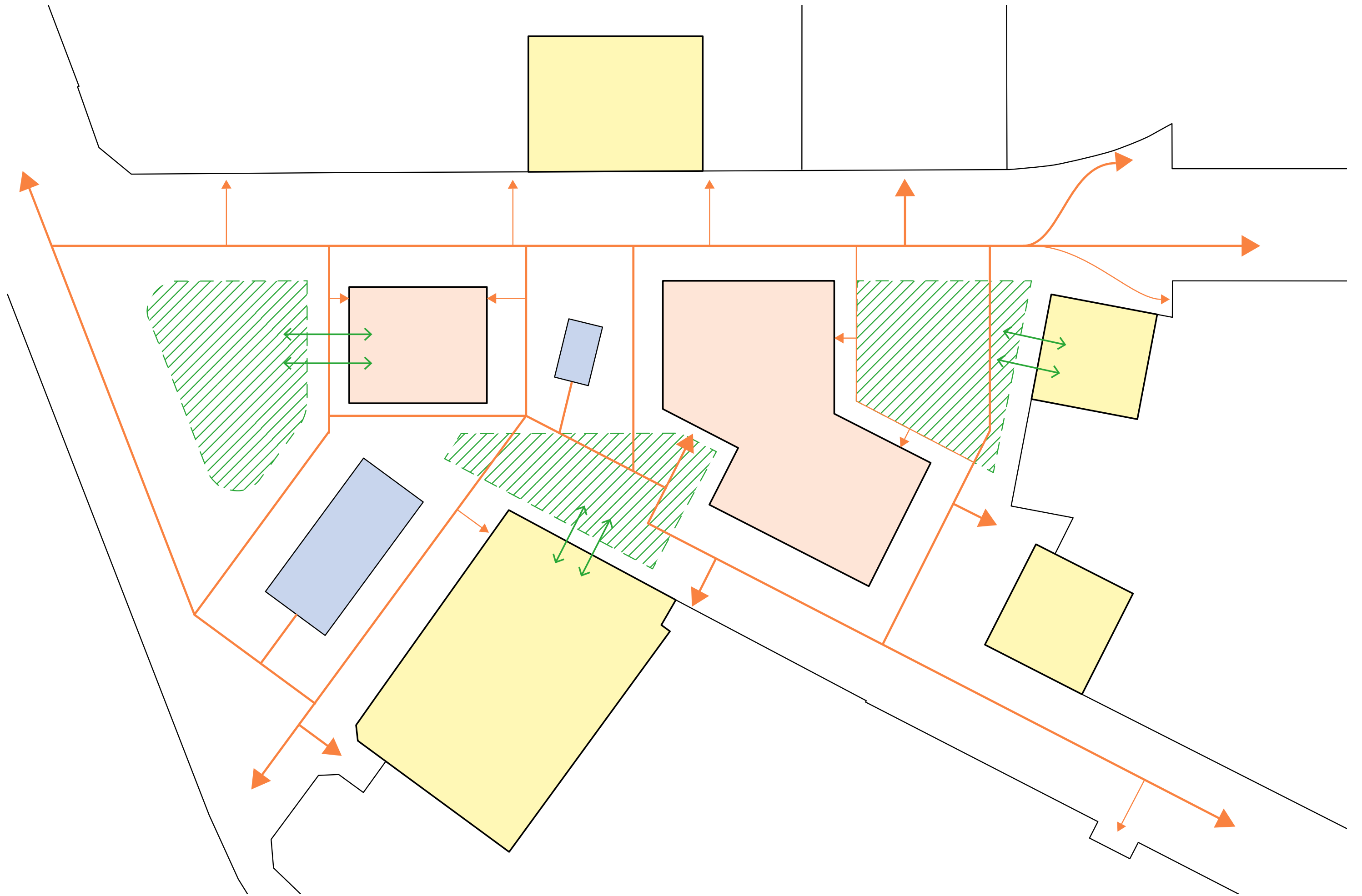
people need care



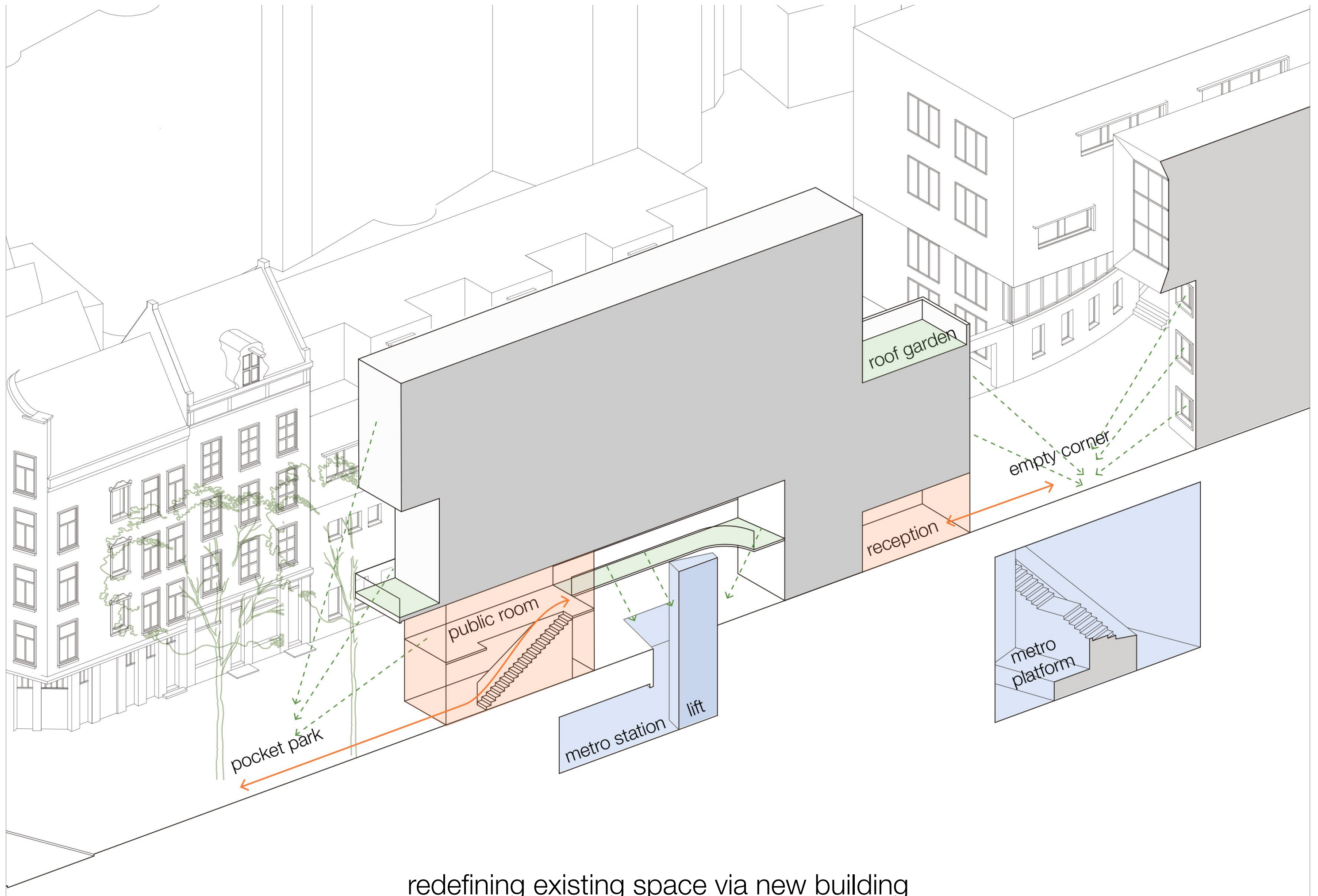
urban strategies



urban plan



inteface for nature and social interaction

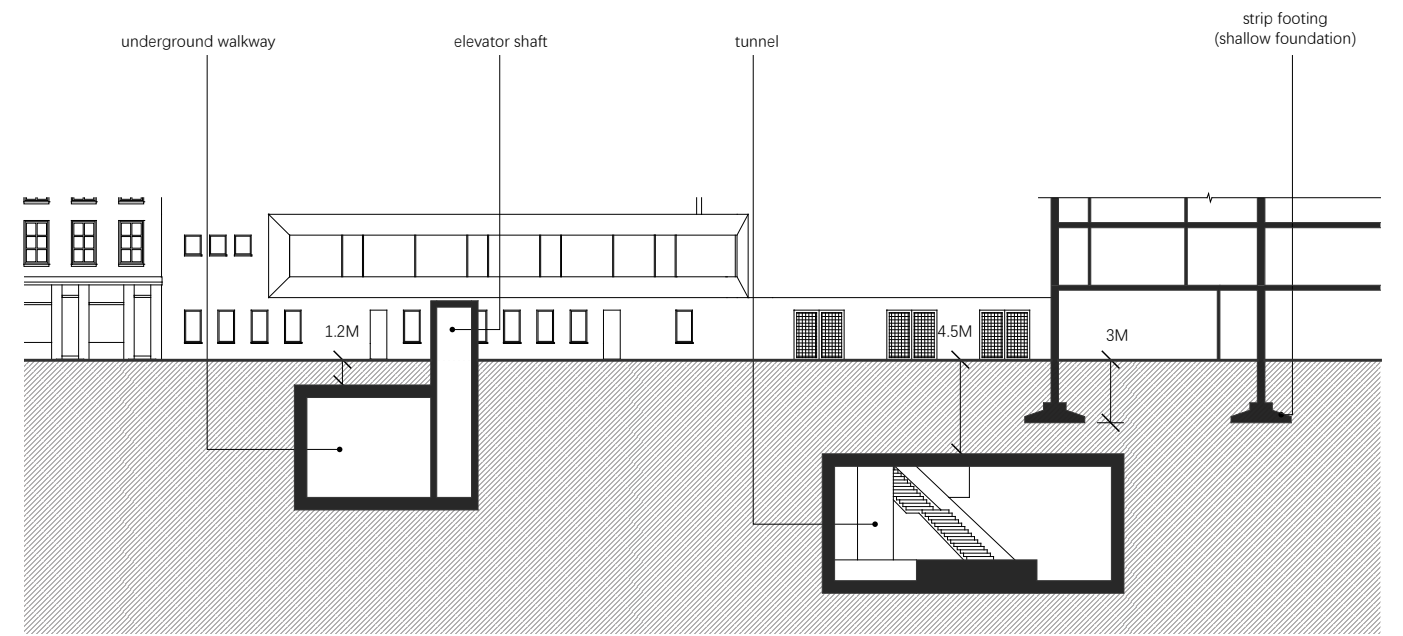
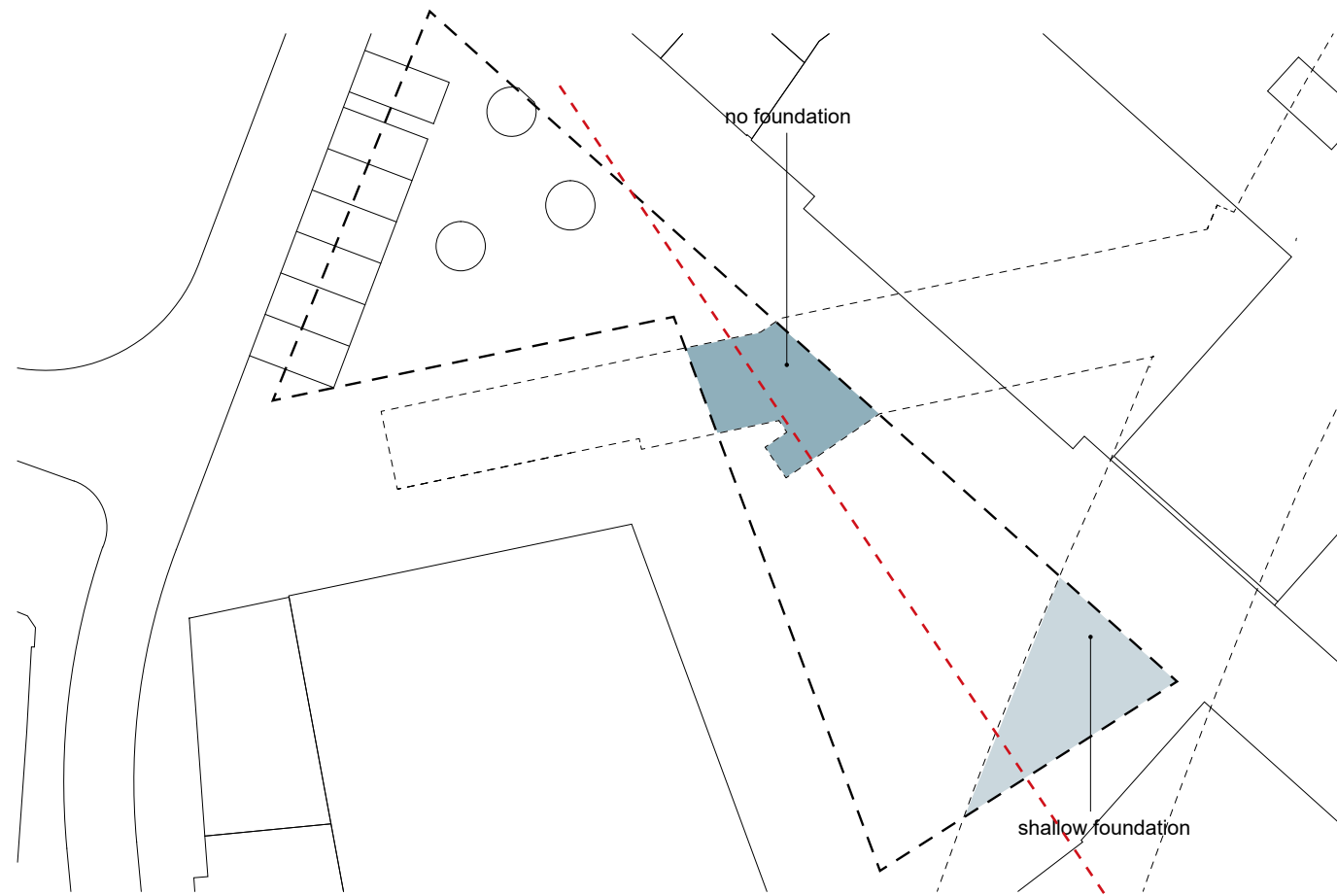


redefining existing space via new building

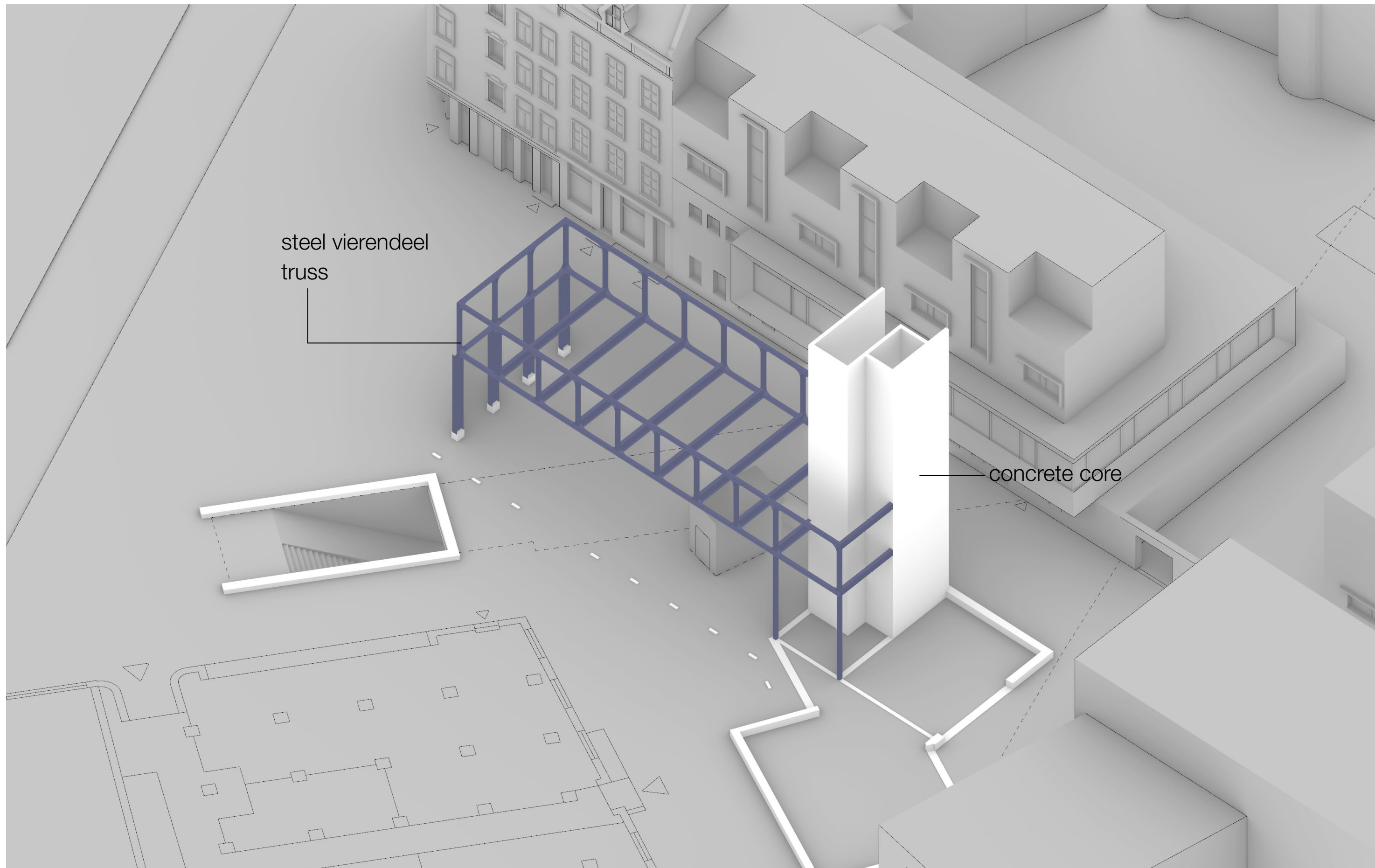




structure & space



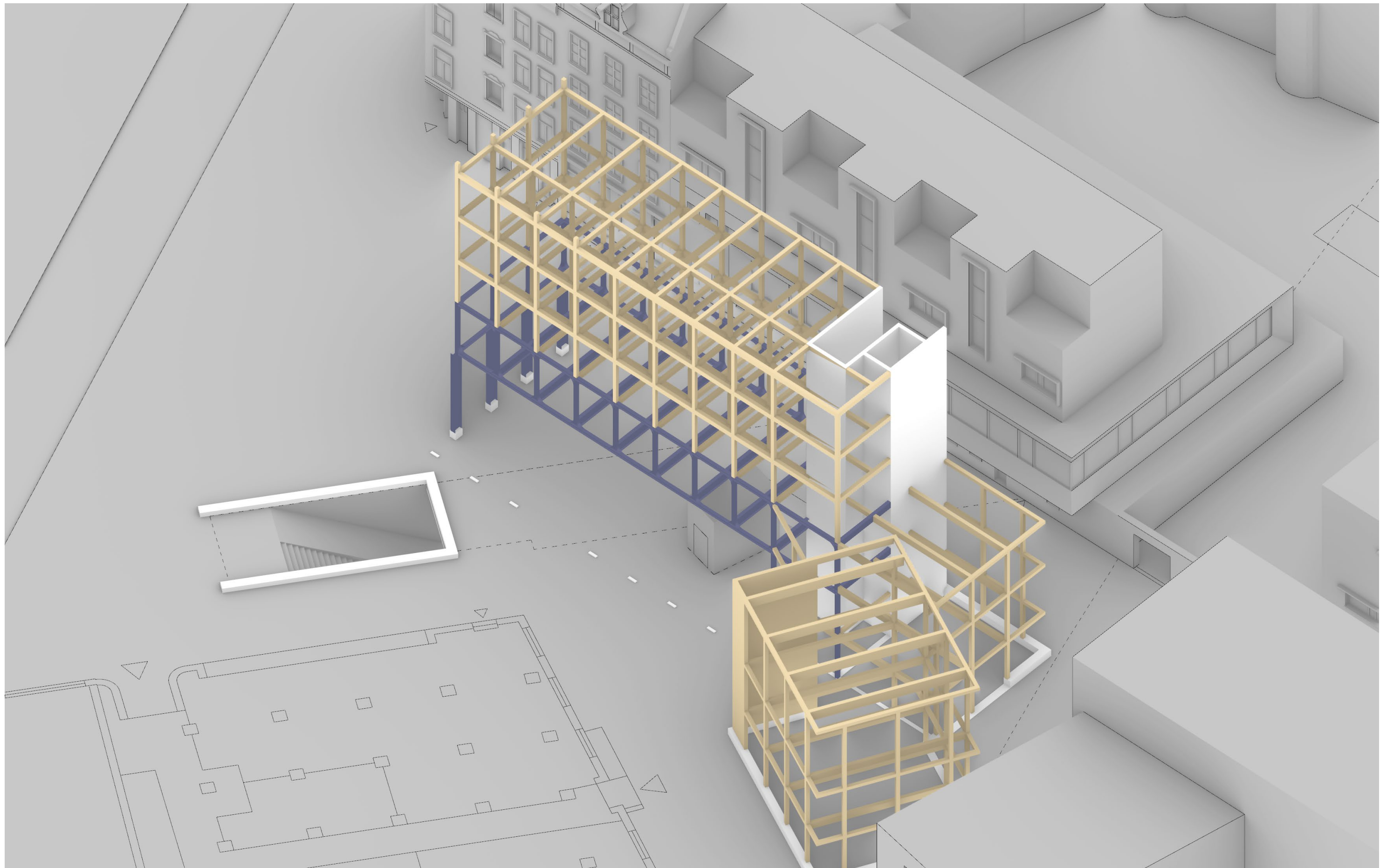
limitation of foundation structure



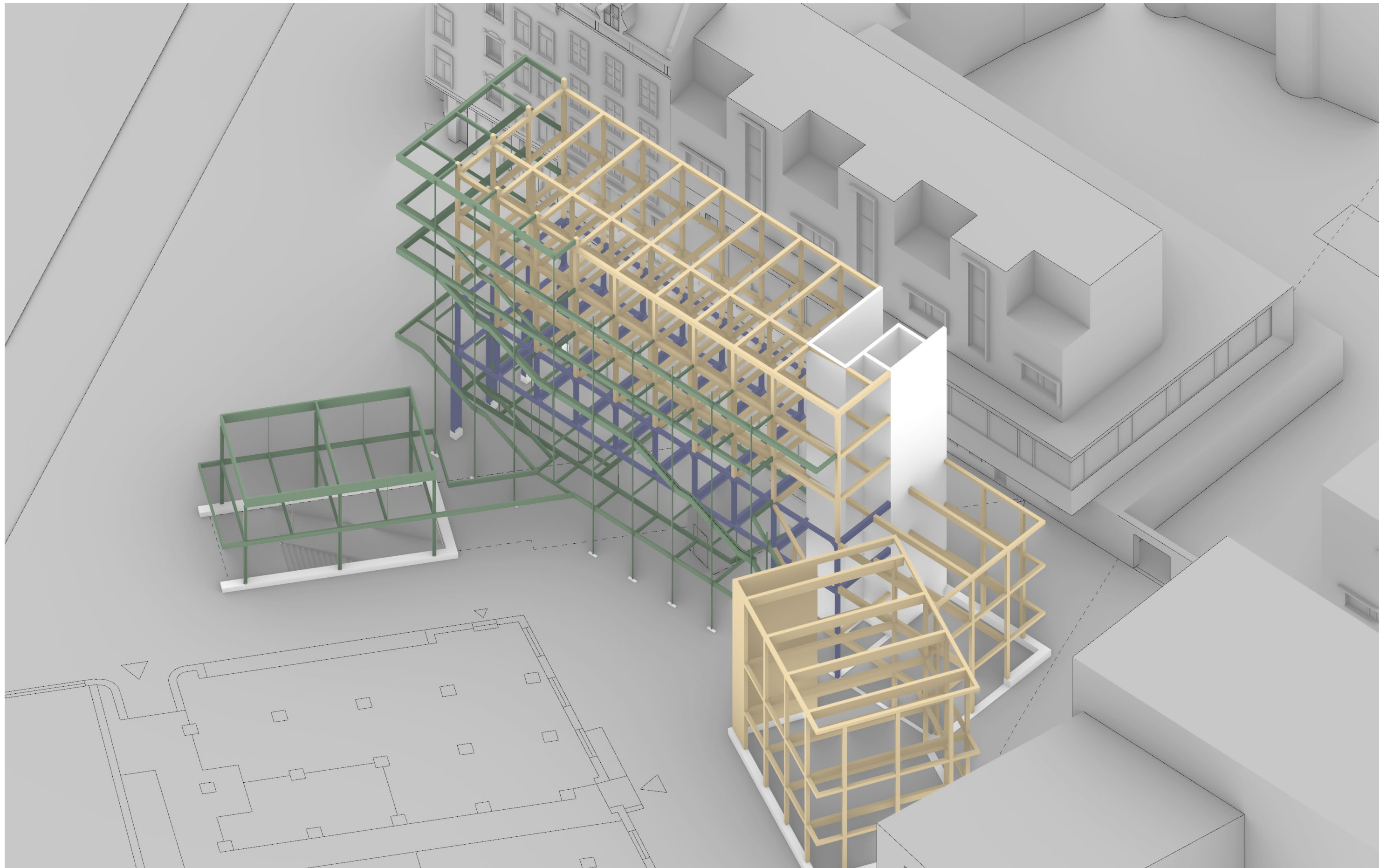
steel vierendeel
truss

concrete core

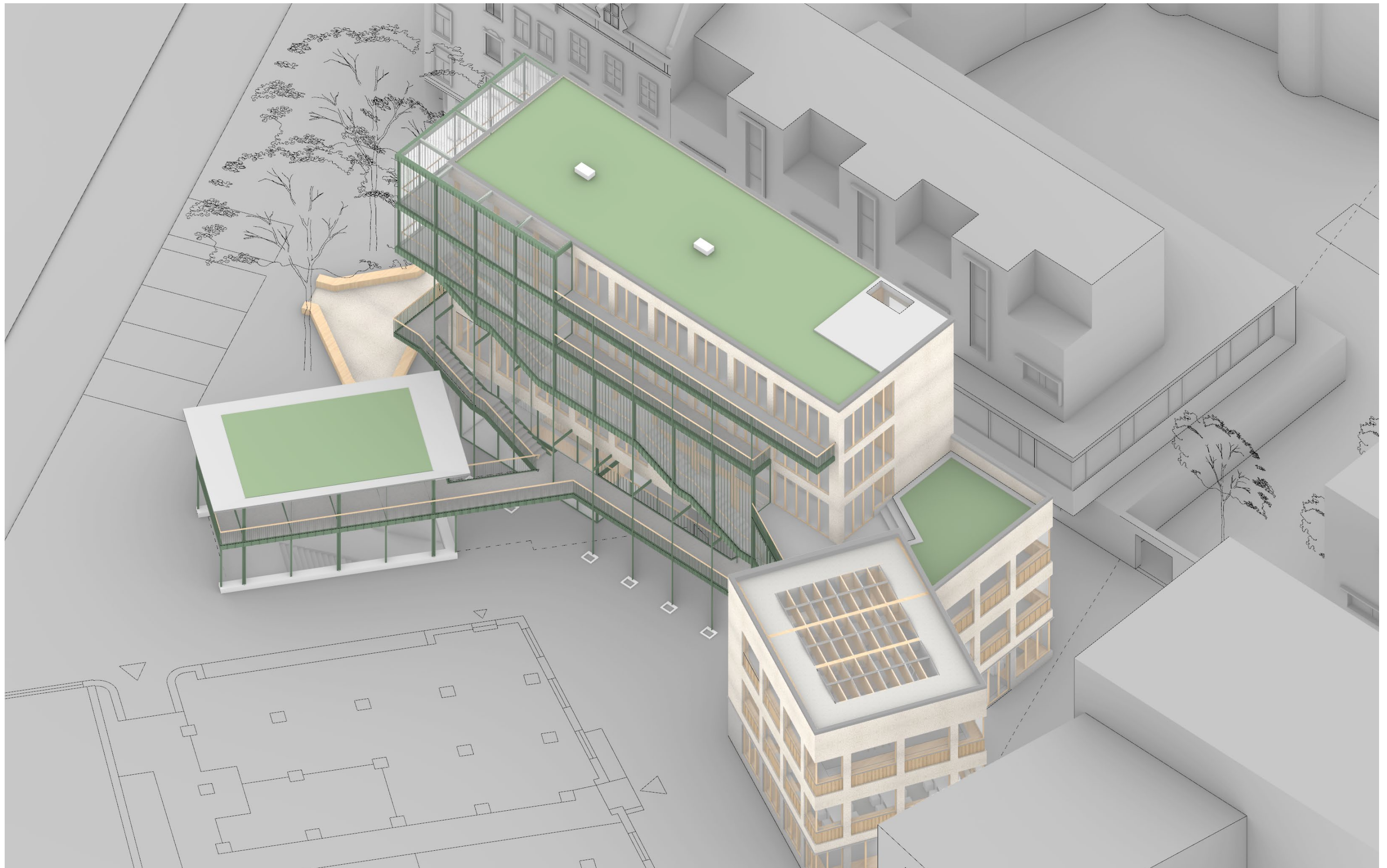
Concrete foundation & steel vierendeel truss



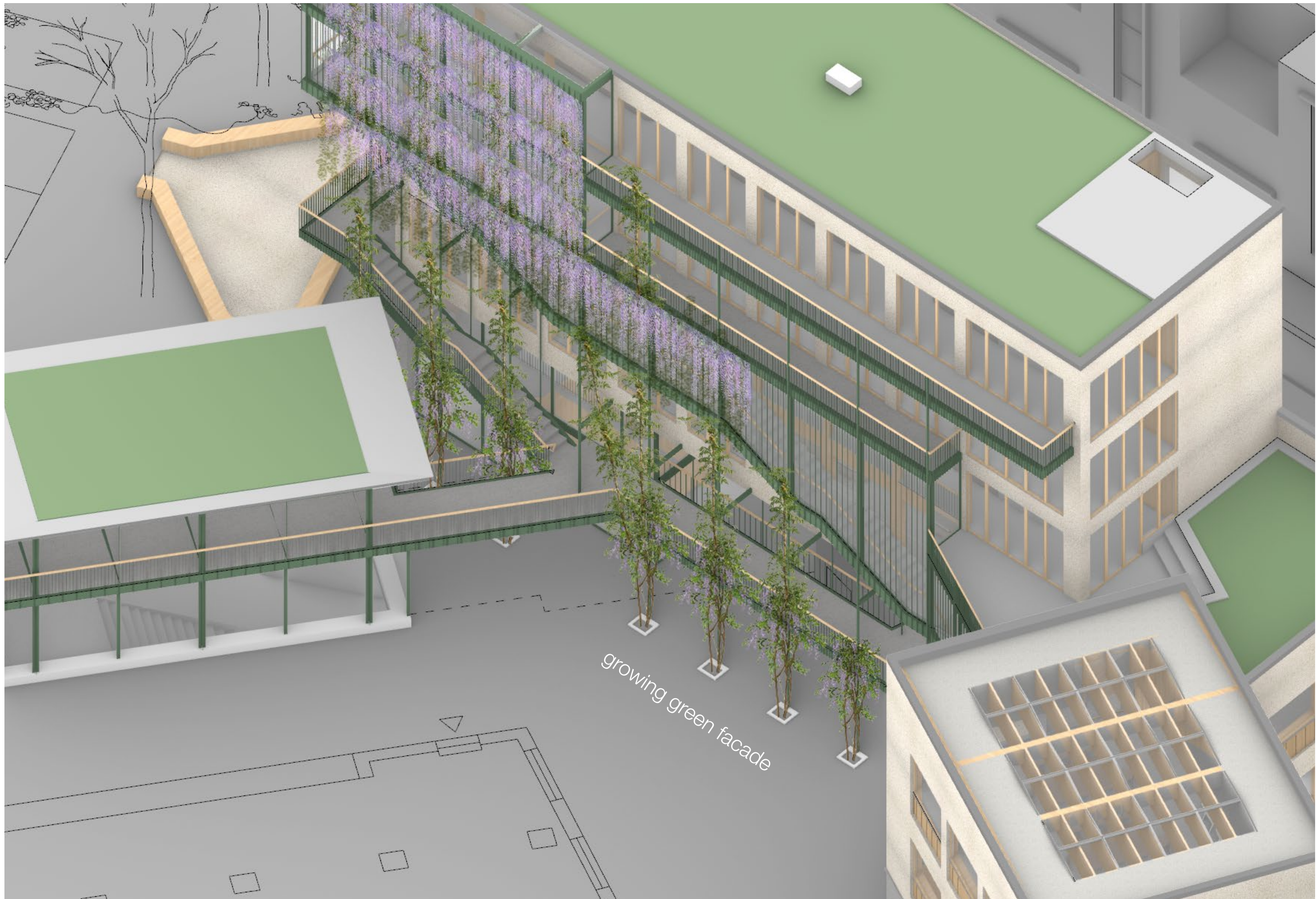
timber structure



cantilevered and suspended steel structure



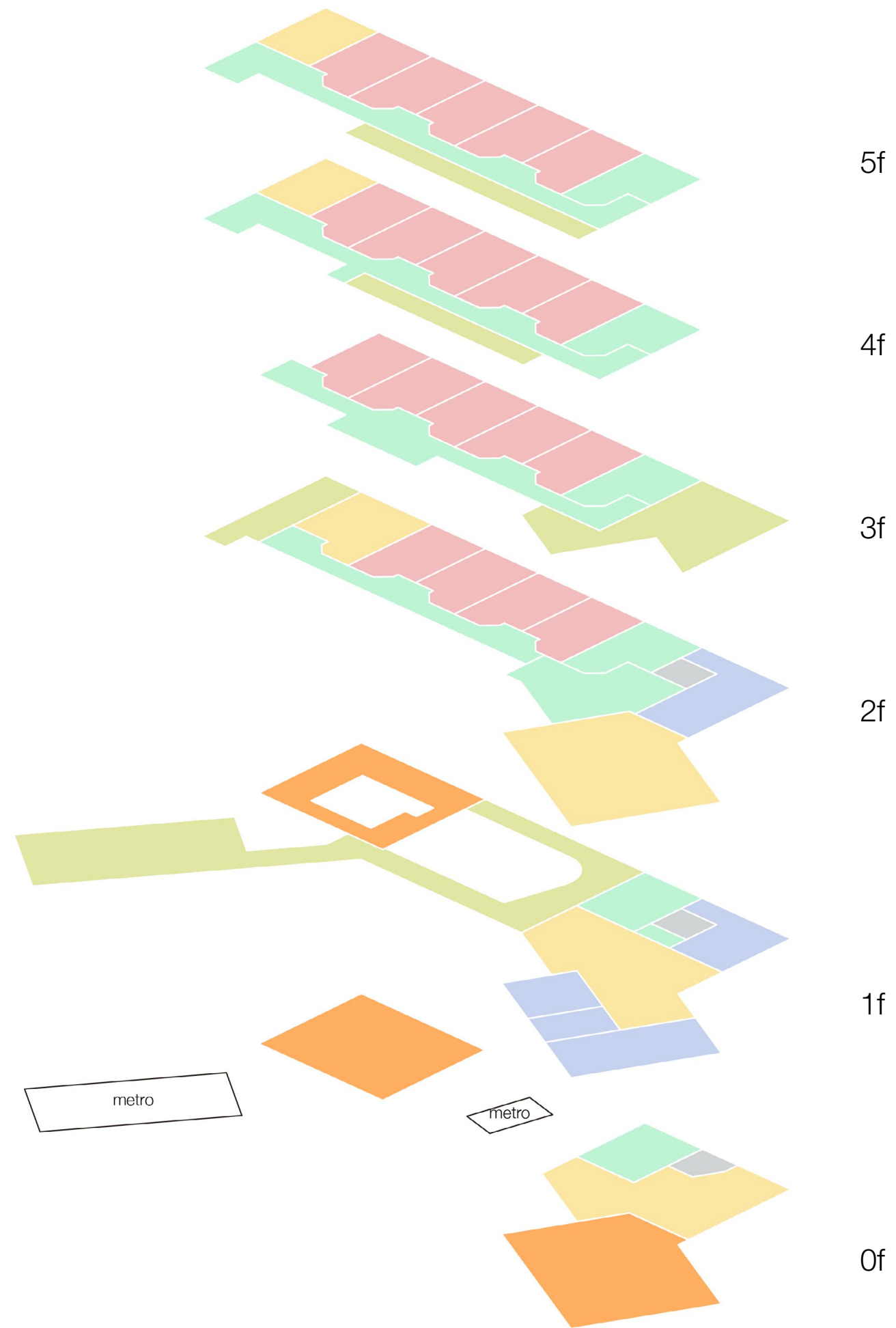
main volume and an additional layer

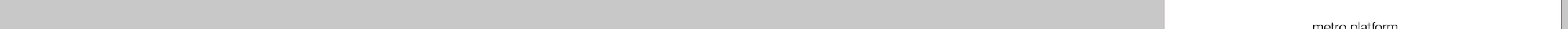
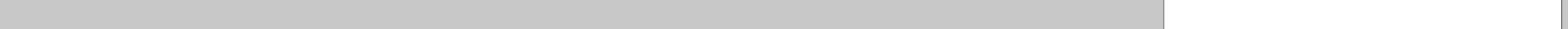
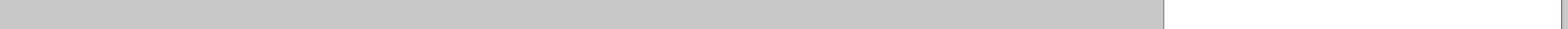
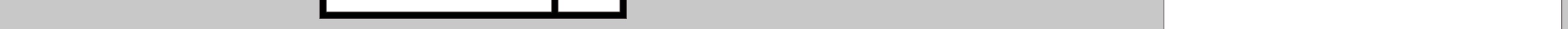
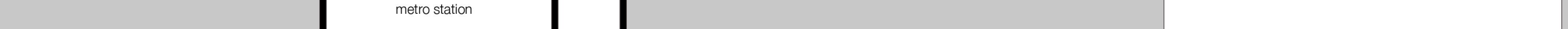
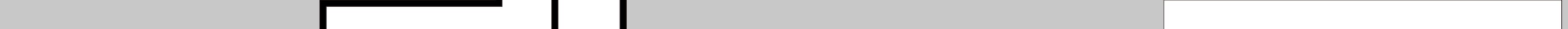
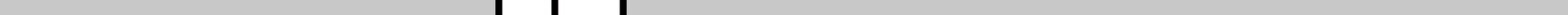
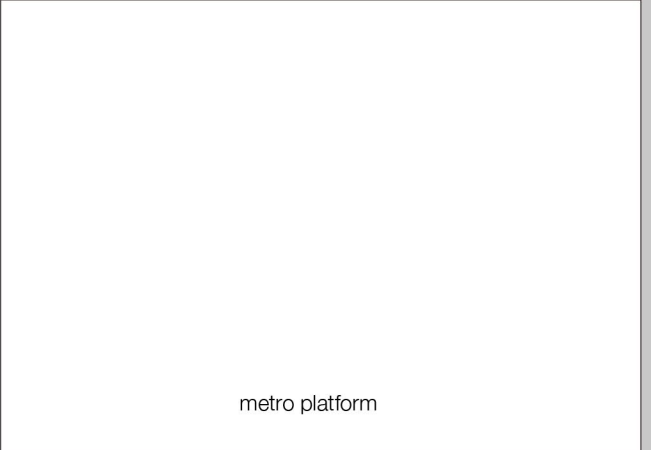
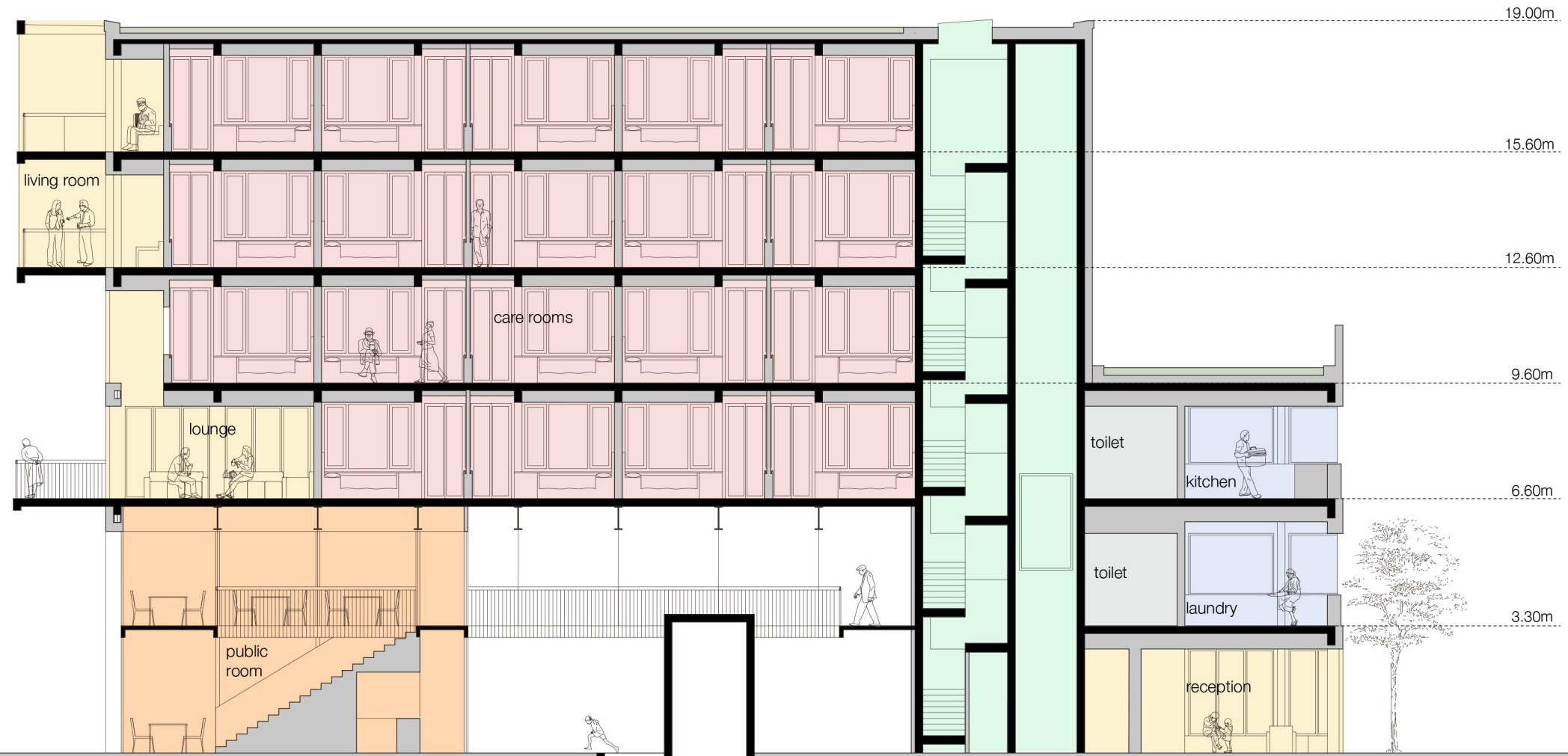
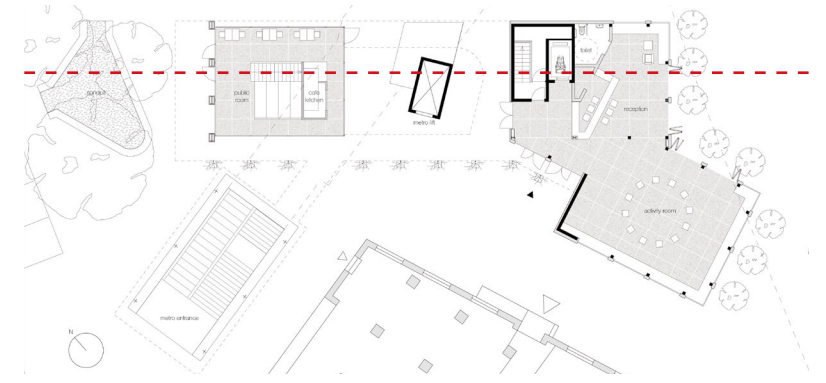


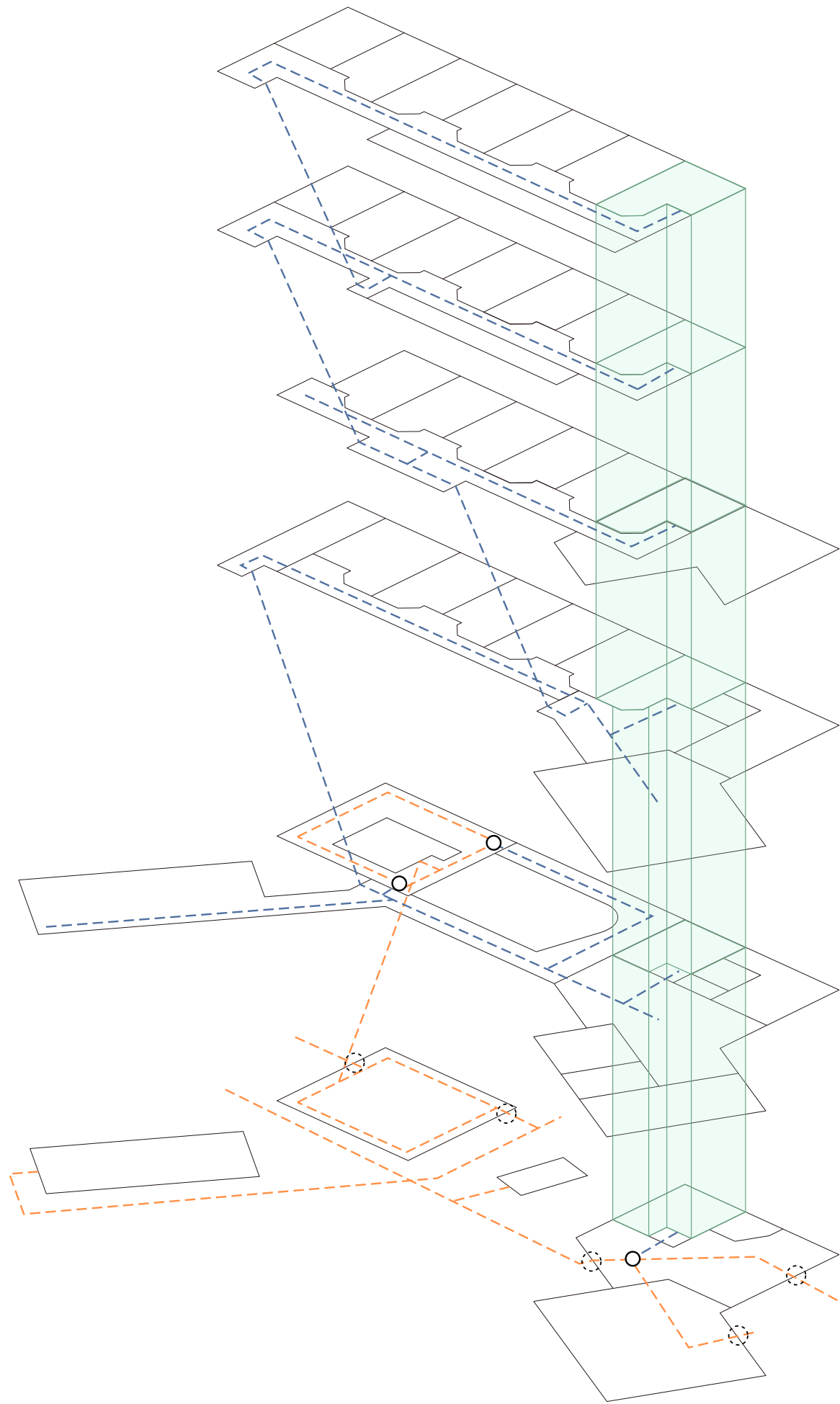
growing green facade

program & spacial orgnization

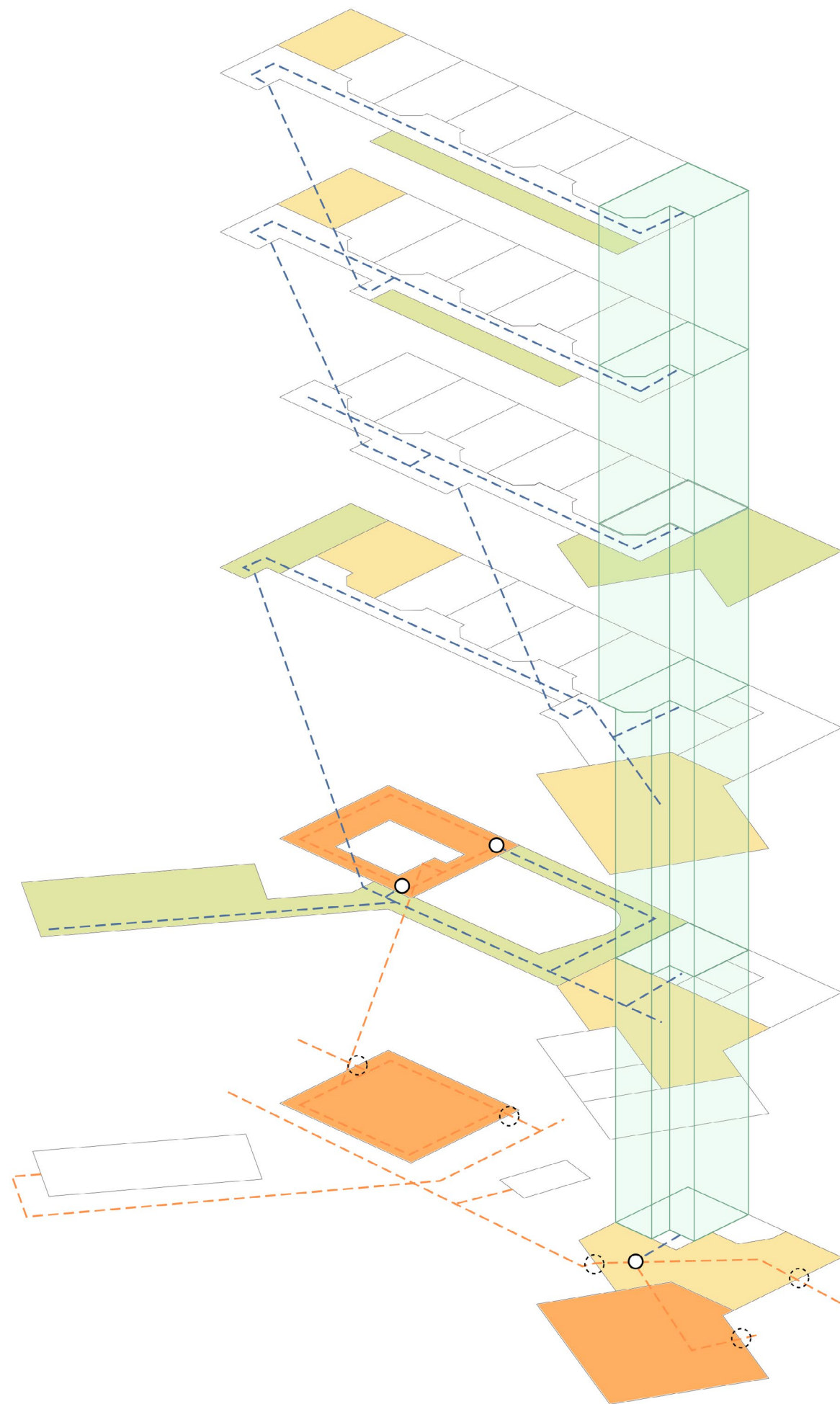
public room	125
multi-activity room	93
lobby	72
dining room	93
living room	114
lounge	30
care rooms(19)	441
circulation	398
office	35
treatment room	18
laundry	24
kitchen	35
staff room	12
sanitation	18
<hr/>	
total	1780







- internal circulation
- public circulation
- core for escape staircase & elevator
- controlled entry
- public entry



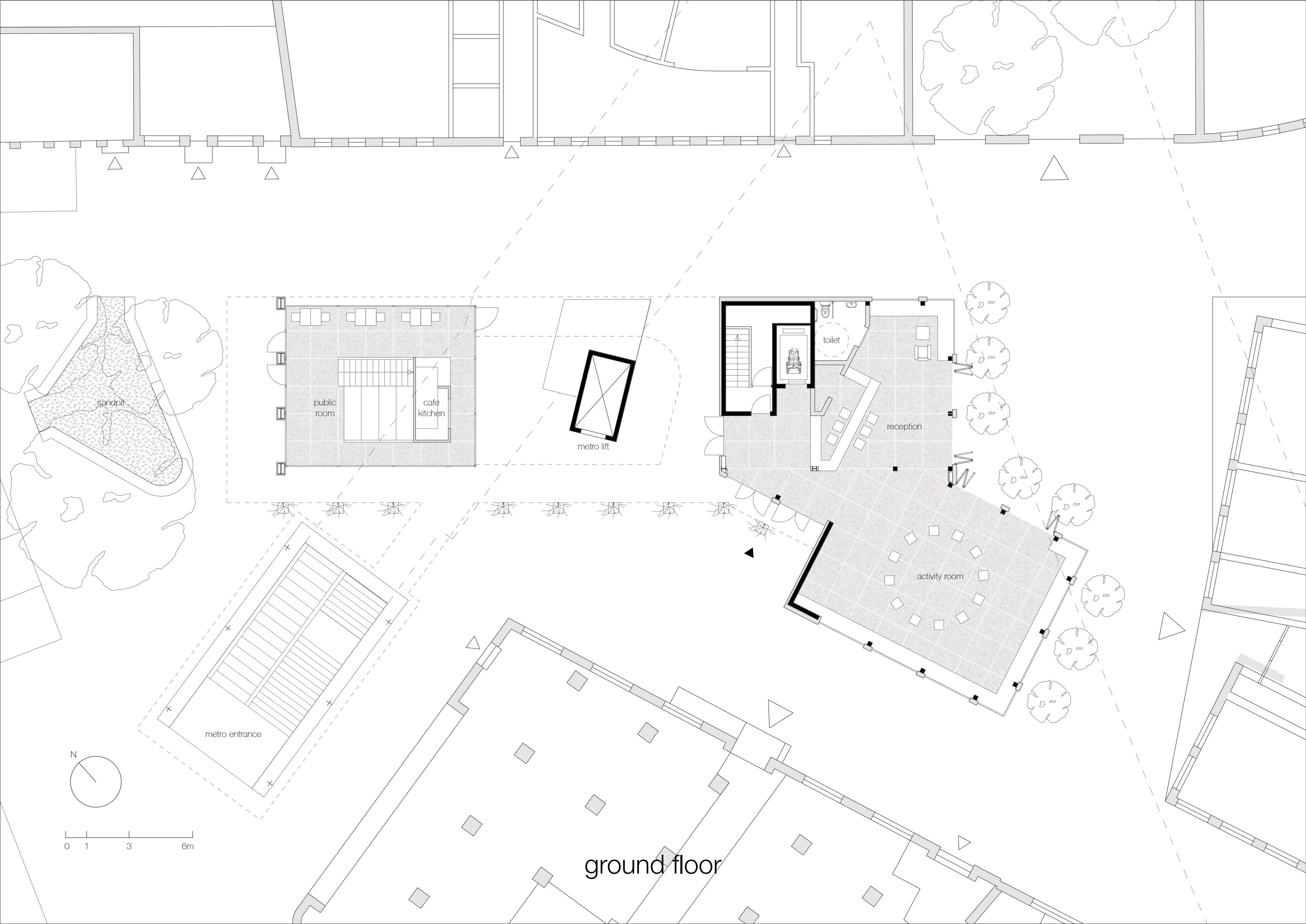
- internal circulation
- public circulation
- core for escape staircase & elevator
- controlled entry
- public entry

Experience of the building: from city to interiors









sandpit

public room

cafe kitchen

metro lift

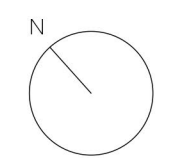
toilet

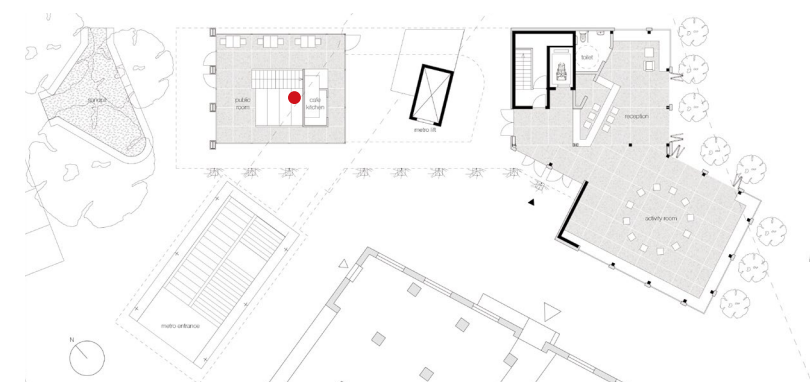
reception

activity room

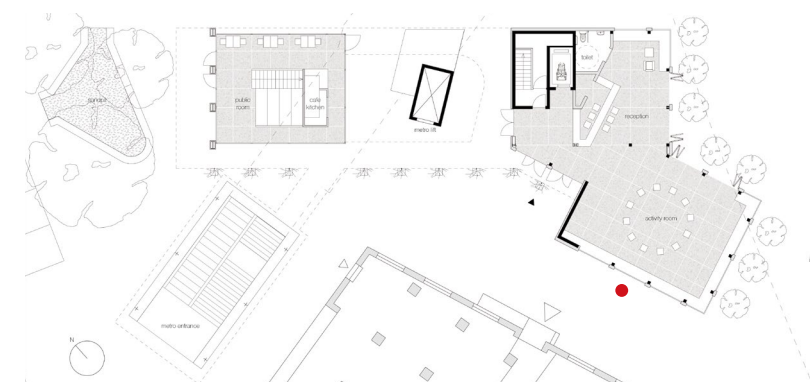
metro entrance

ground floor

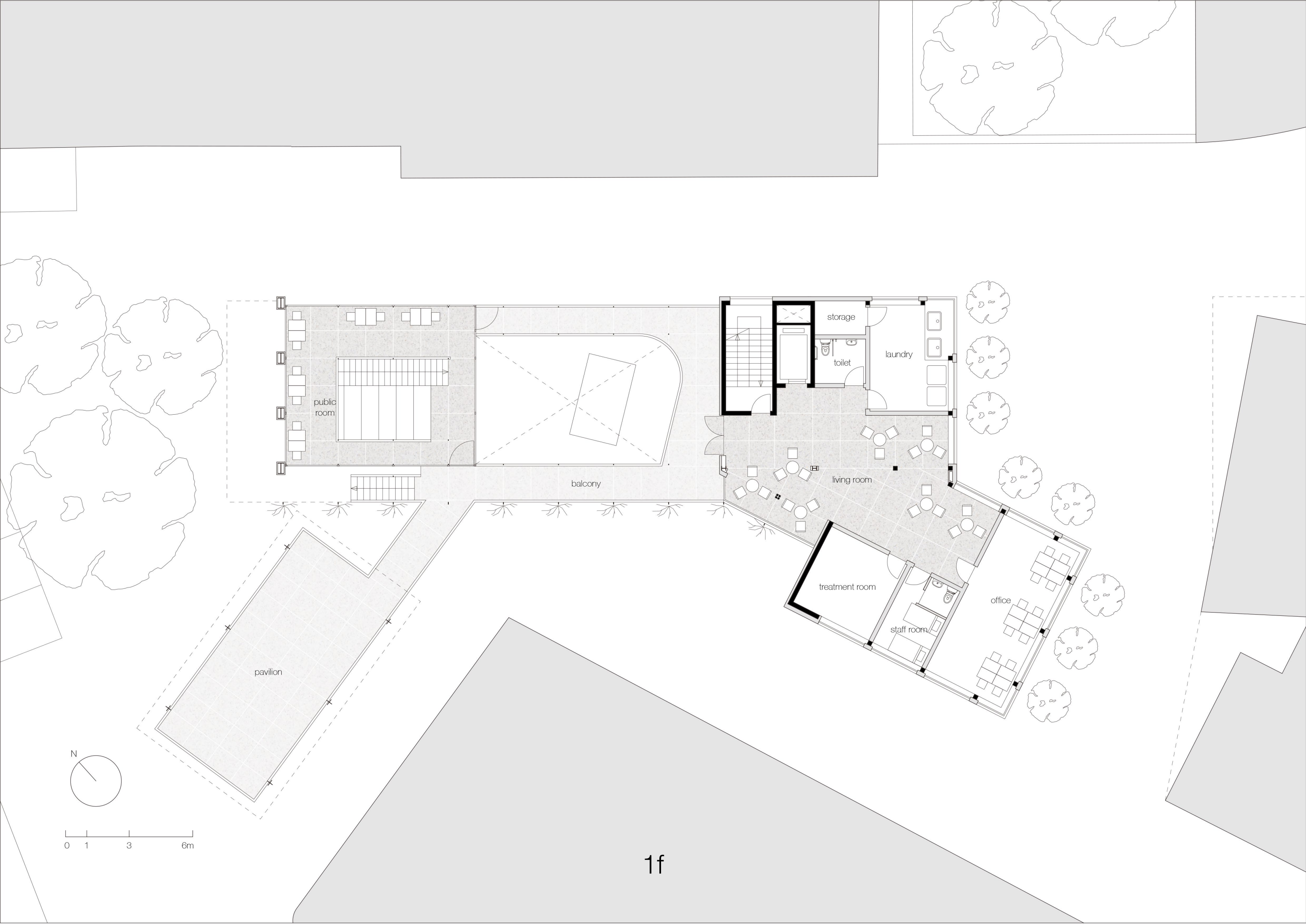




public room



activity room



public room

balcony

storage

toilet

laundry

living room

treatment room

staff room

office

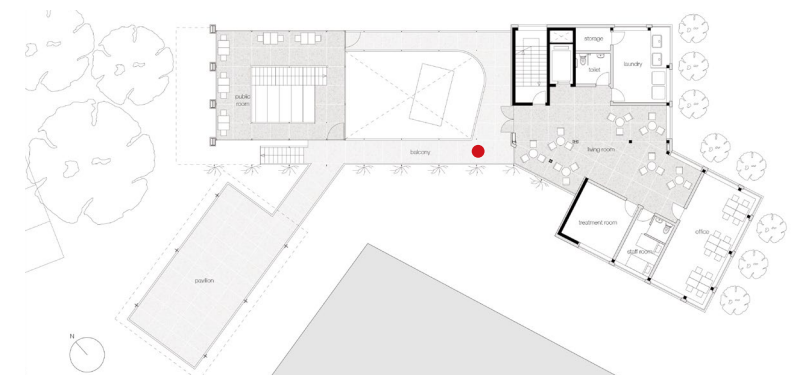
pavilion

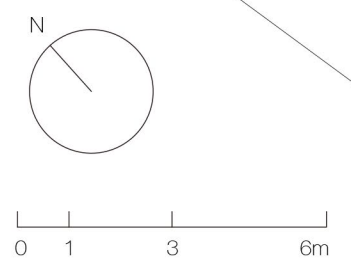
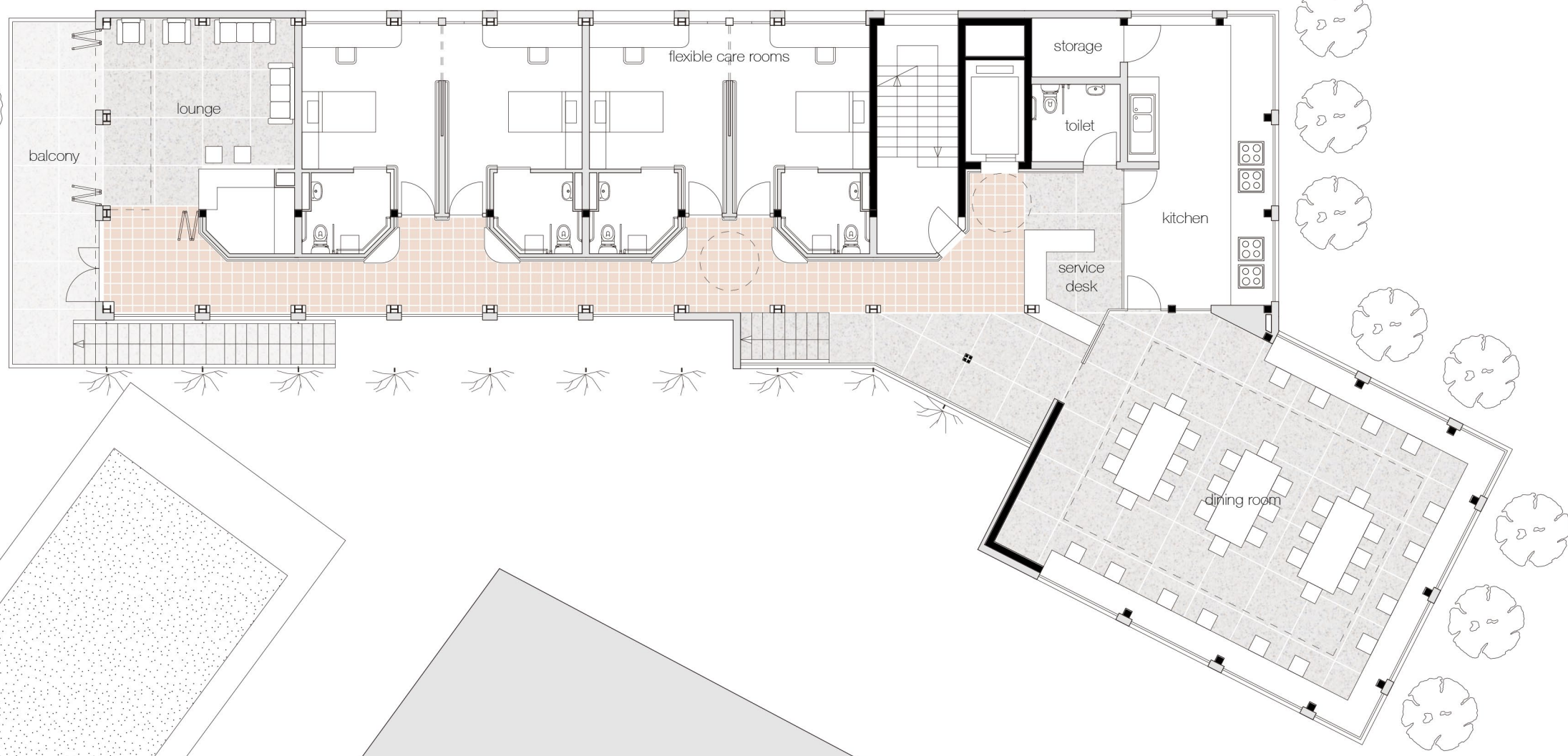
1f





balcony & pavilion above metro entrance





2f



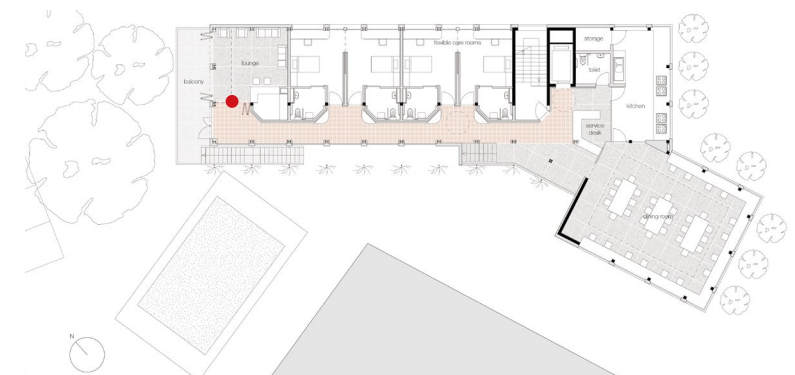
terracotta tiles

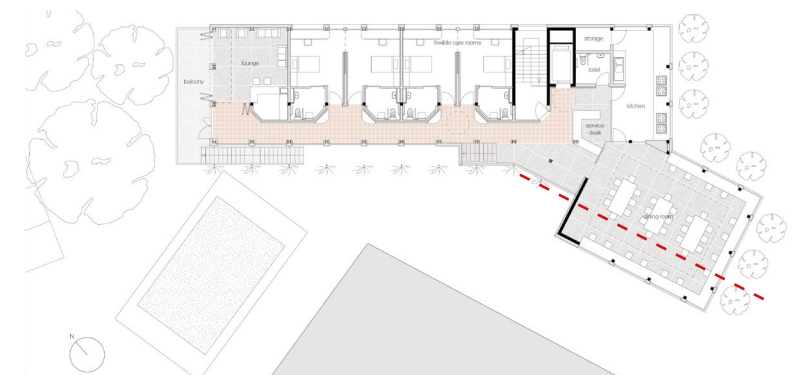


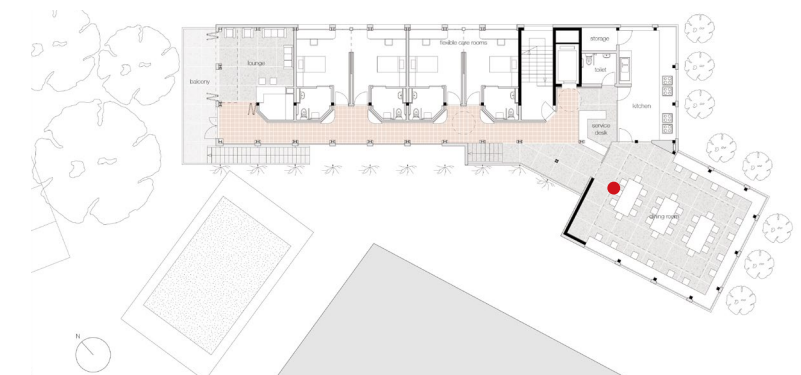
terrazzo floor



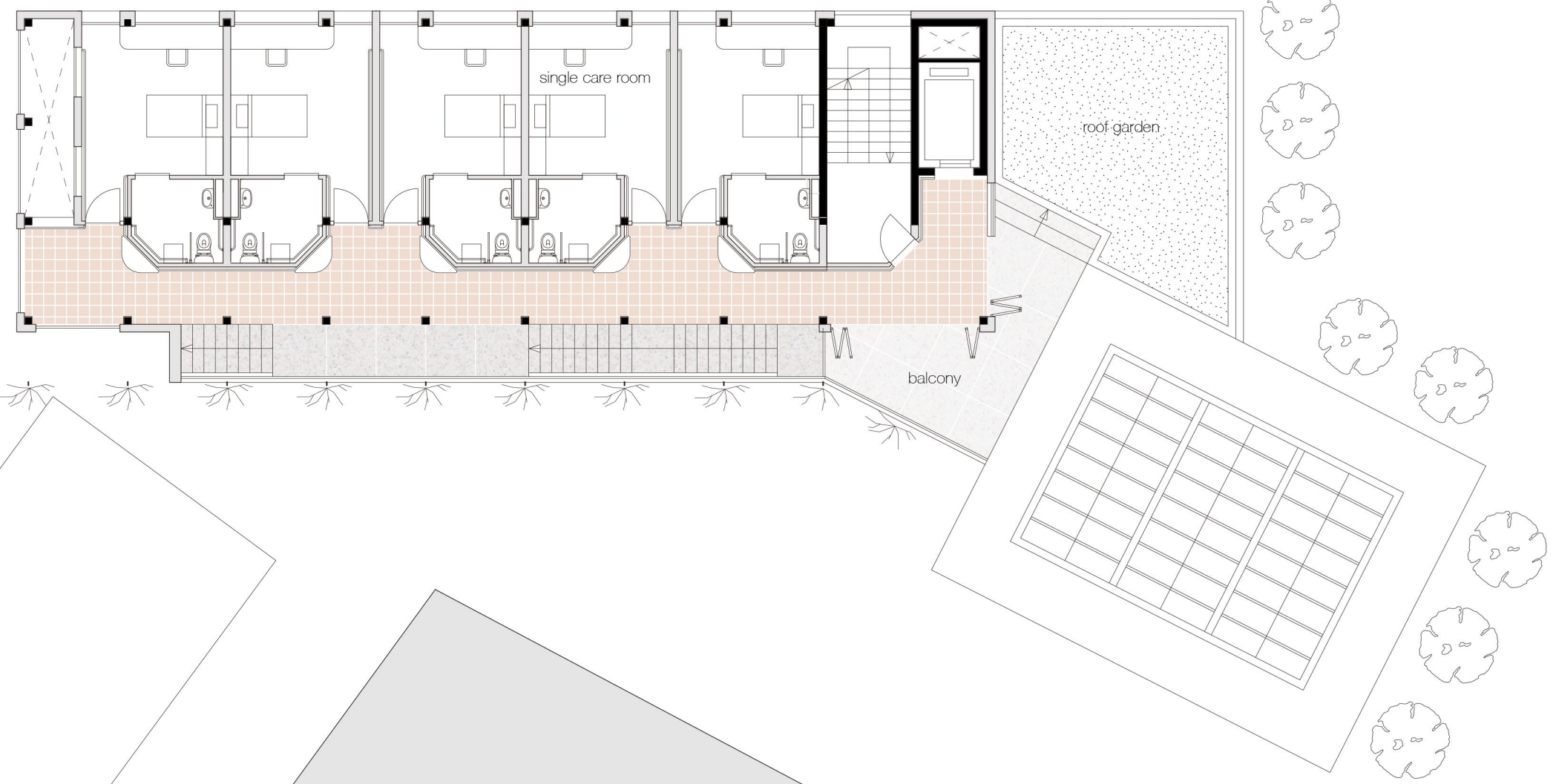
lounge



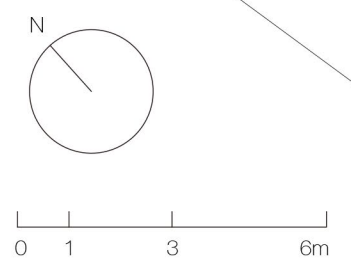




dining room

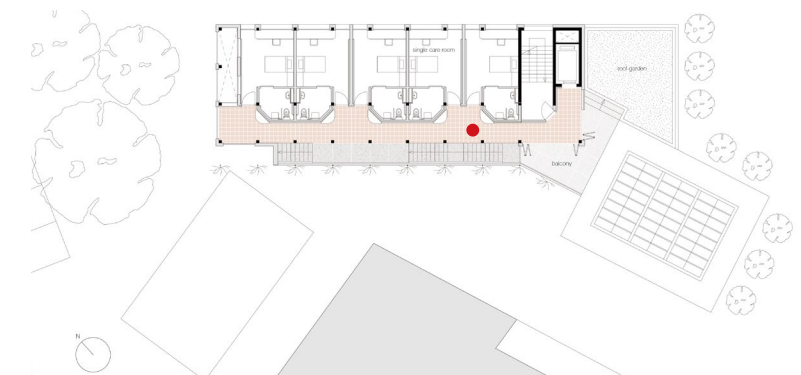


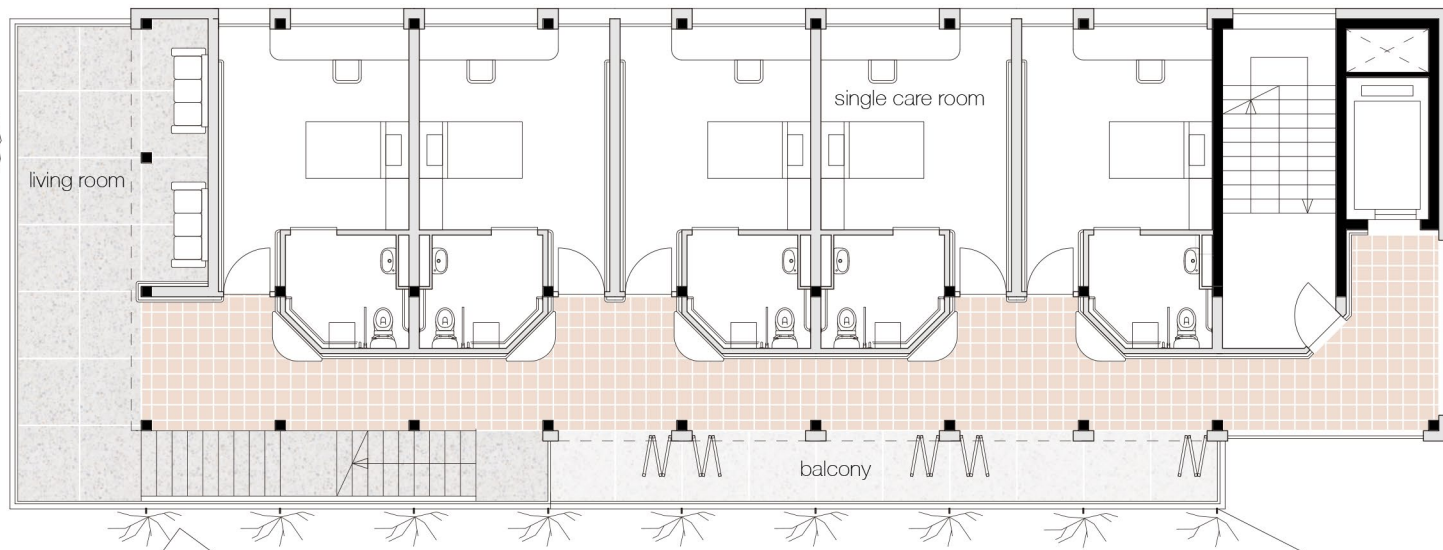
3f





corridor as a street

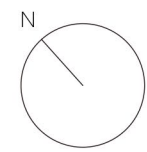
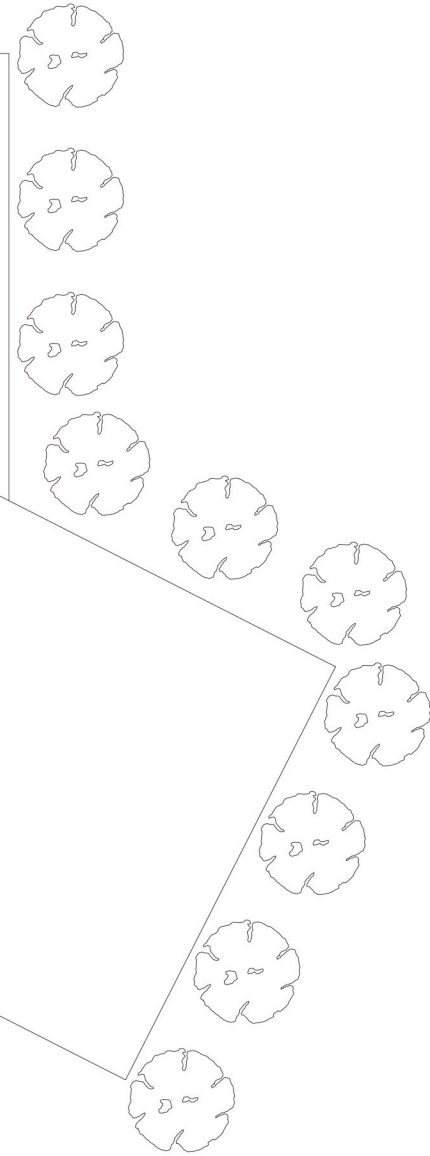




living room

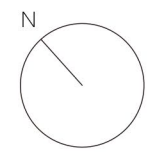
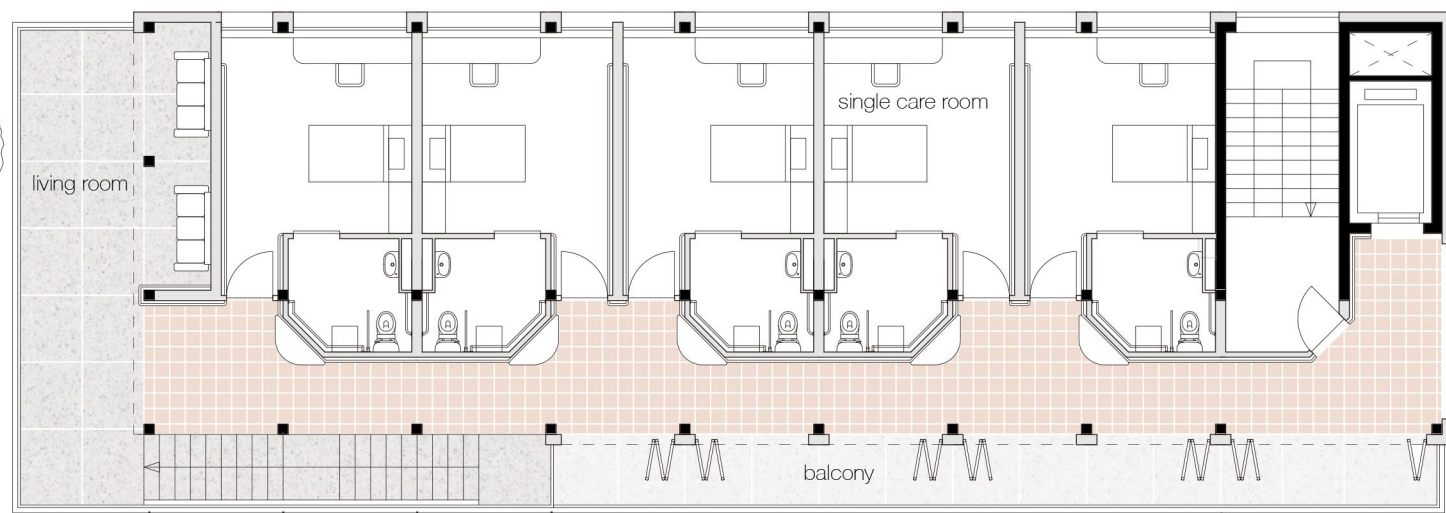
single care room

balcony



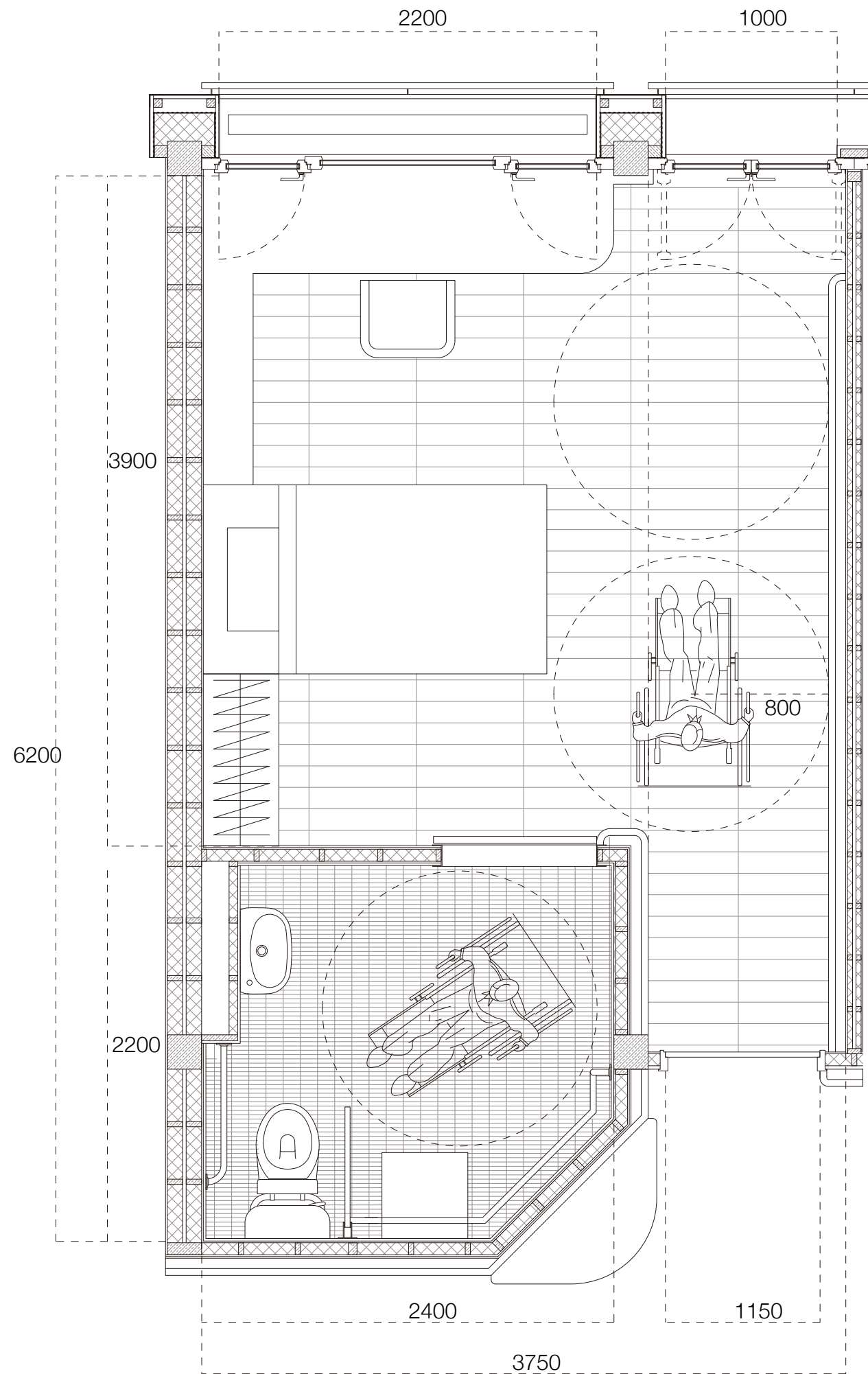
0 1 3 6m

4f



5f

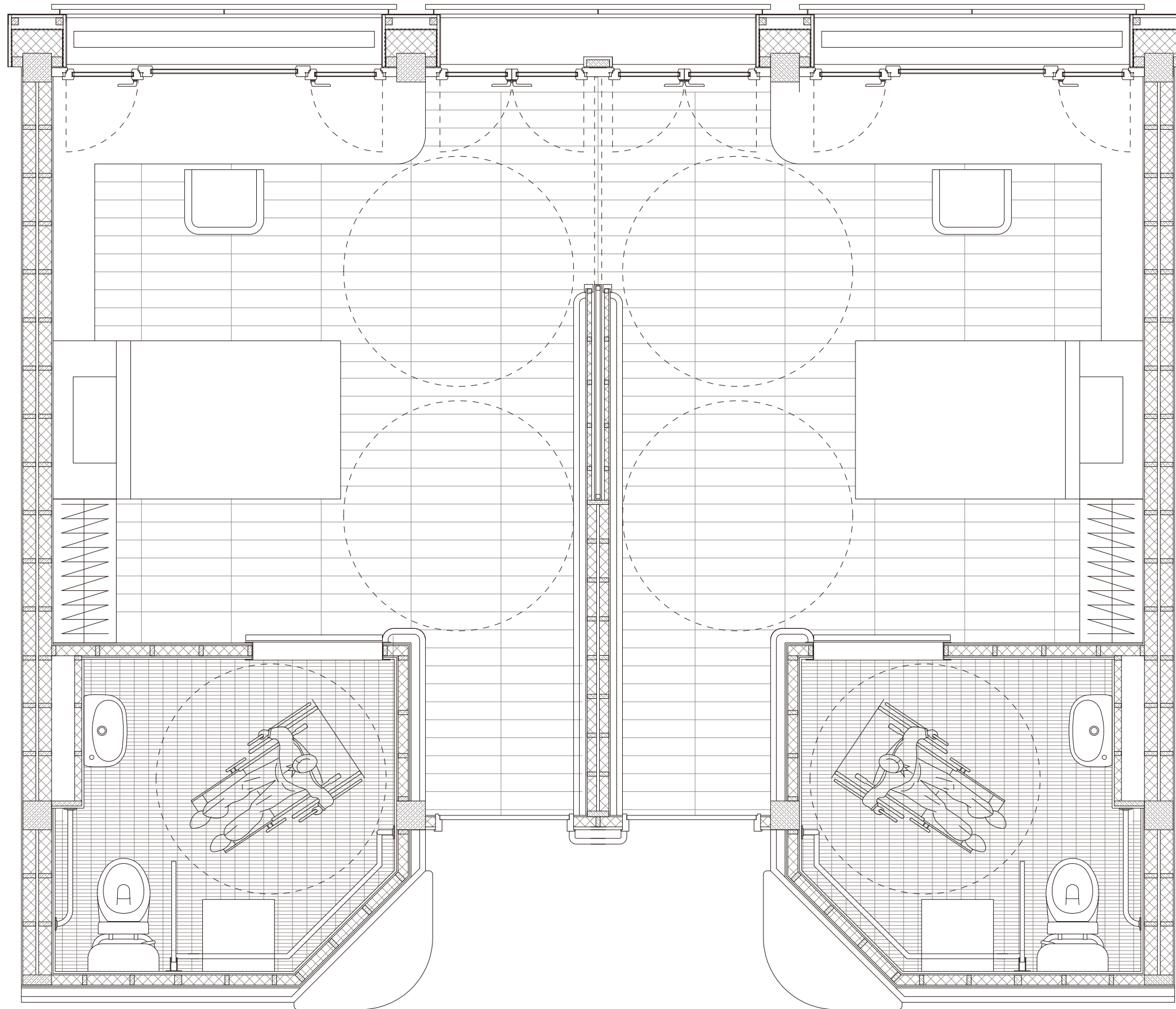
Experience of hotel room



single care room(3-5f, 15 in total)



single care room(3-5f, 15 in total)

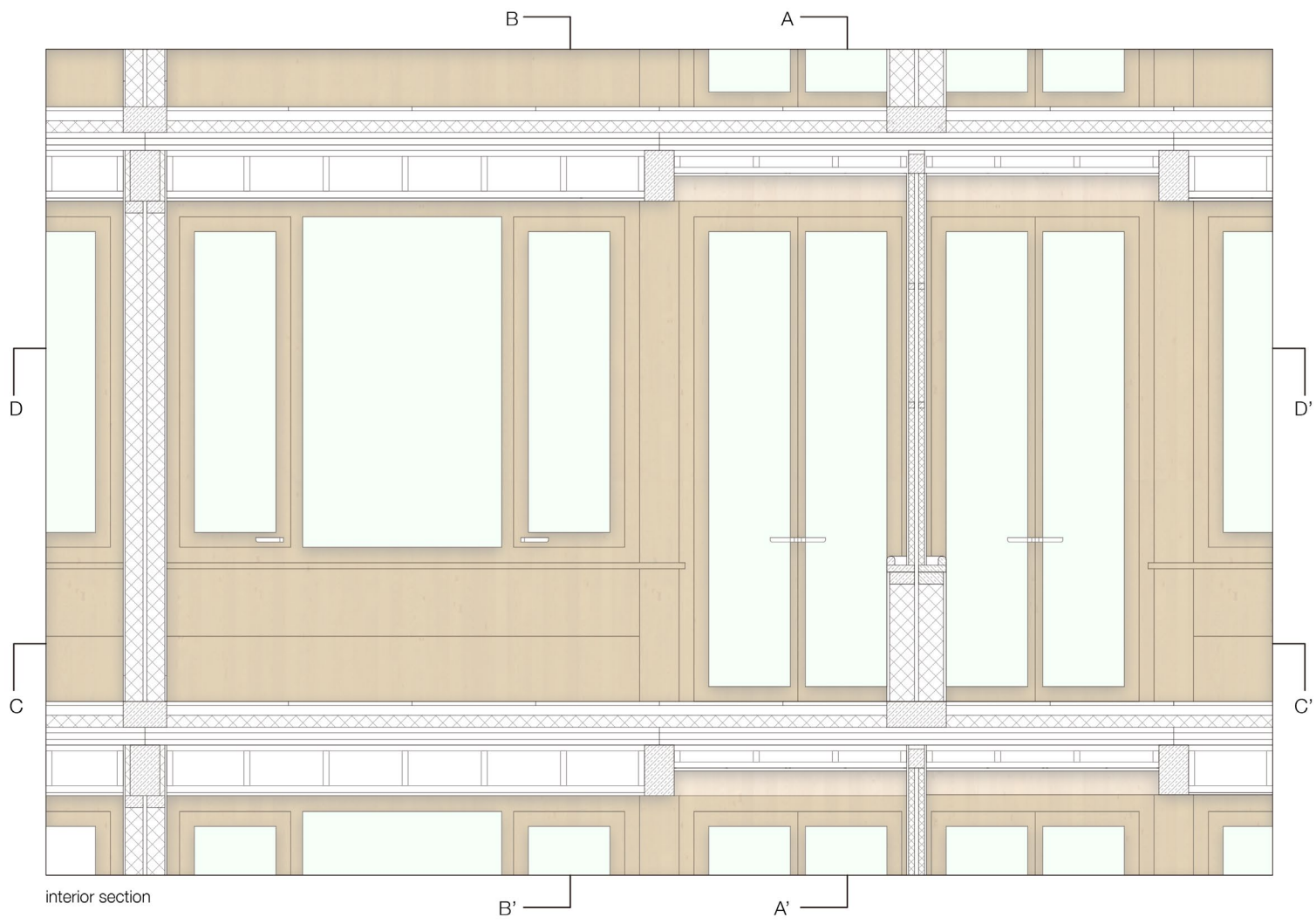


flexible room(2f, 2 pairs)



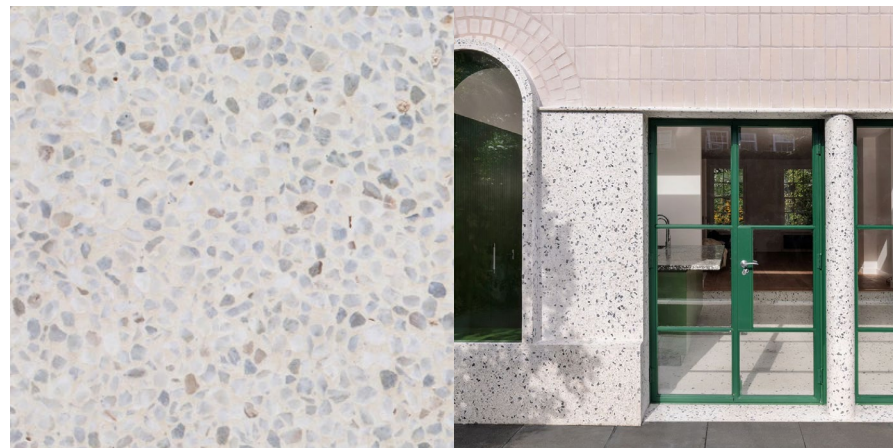
flexible care rooms in pairs (2f, 2 pairs)

Facade





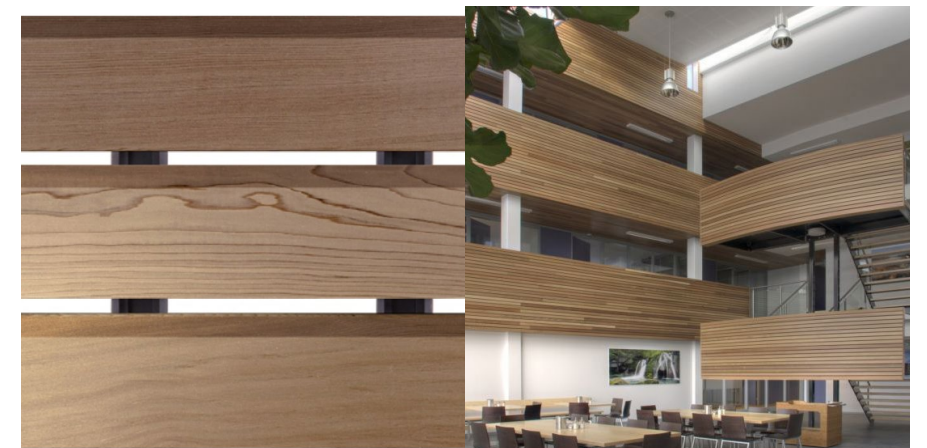
elevation room side



plinth: terrazzo panel



frame: cork plaster spray

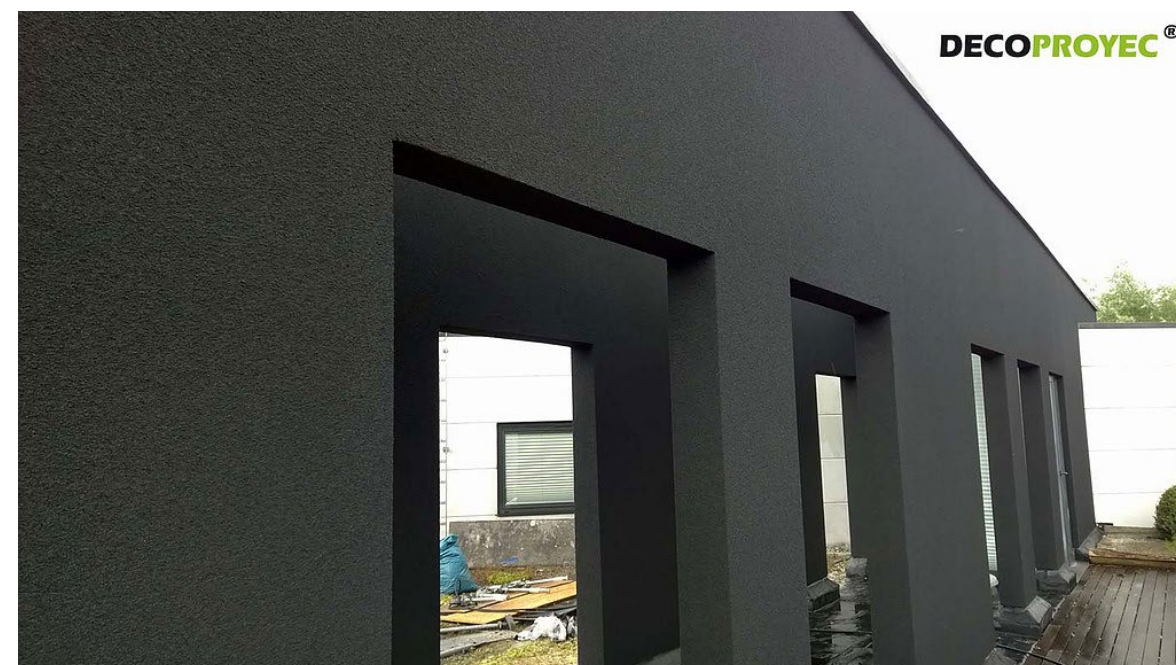


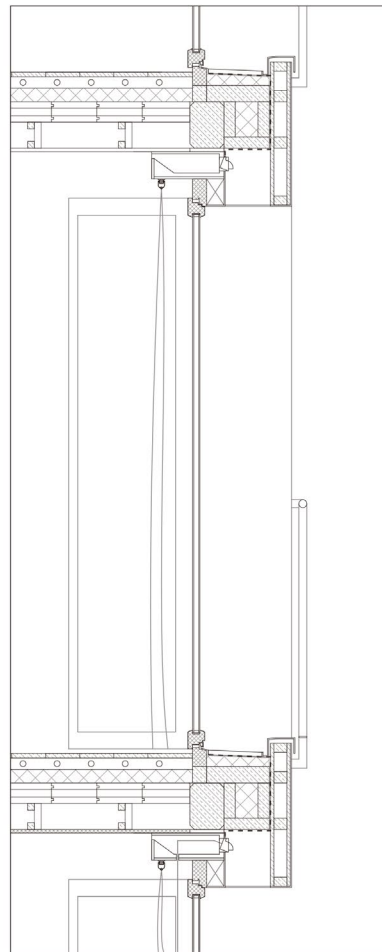
infill: timber cladding



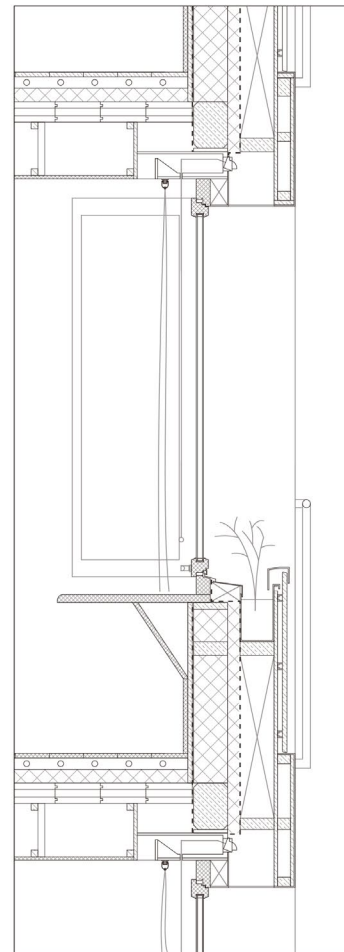
Cork plaster spray

highly durable and flexible coating
adhesive to different materials (including wood)
thermal insulator
sound insulator
quick machine spray





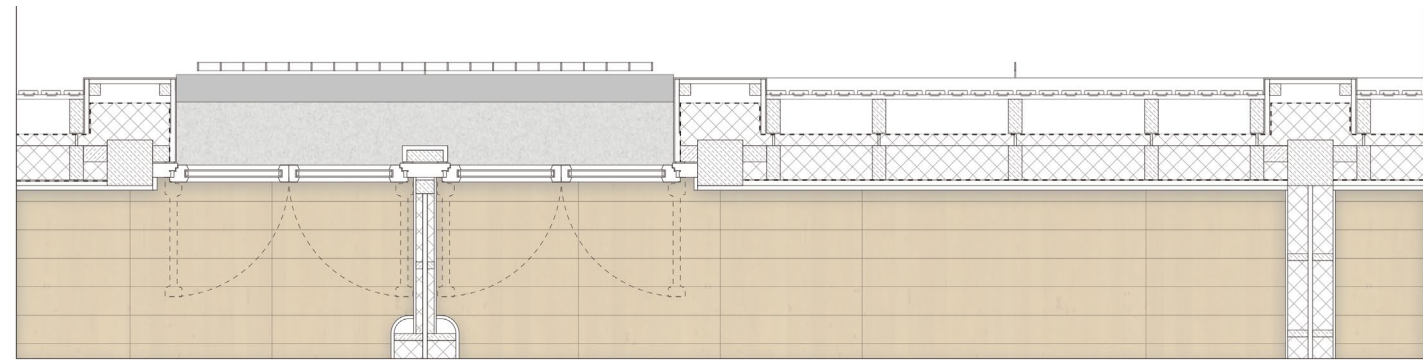
vertical section AA'



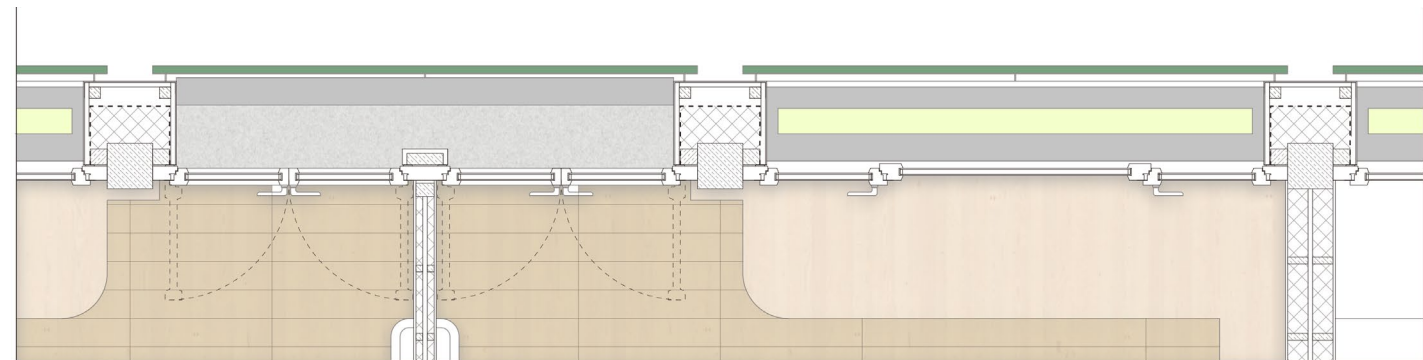
vertical section BB'



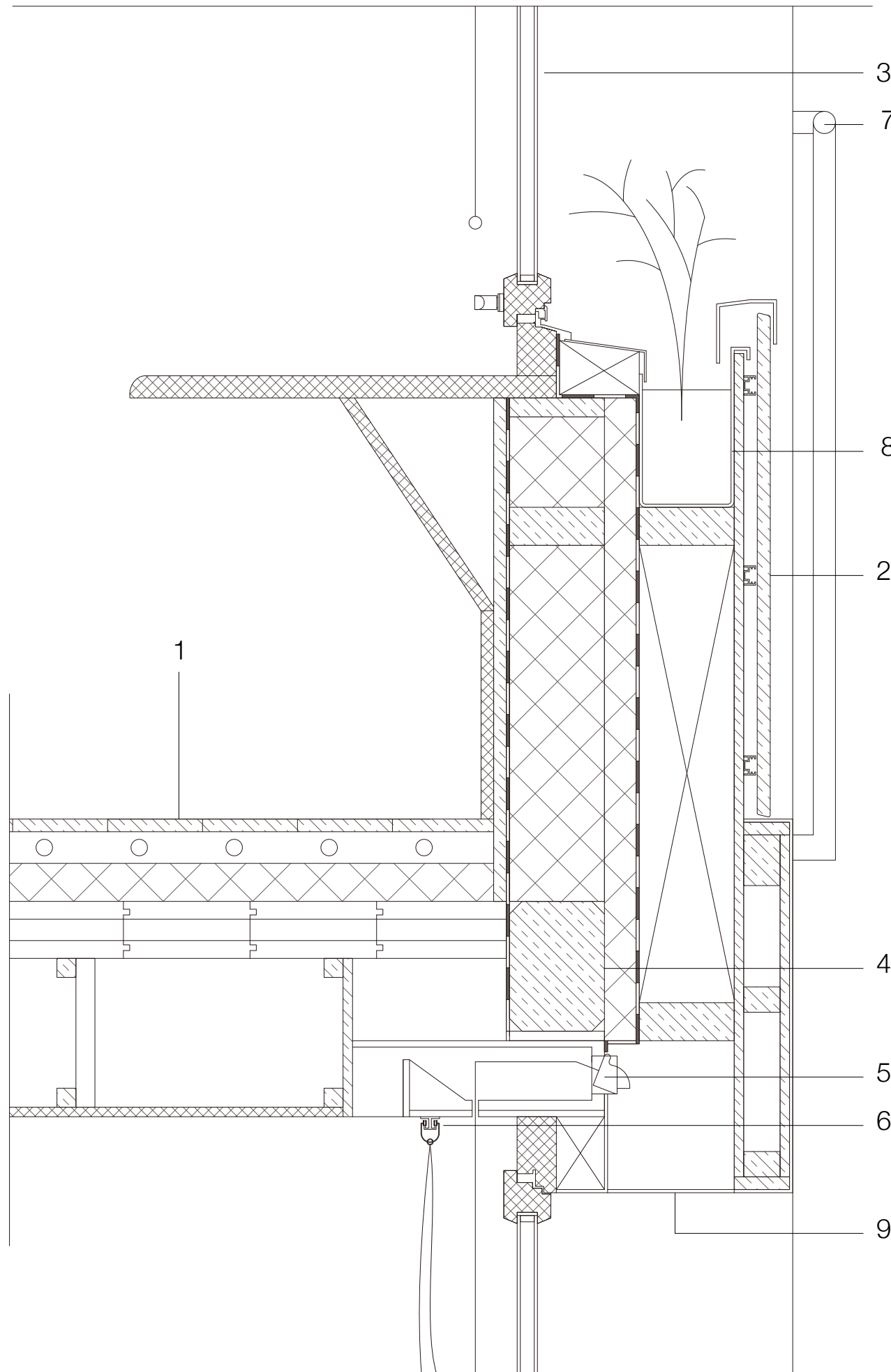
facade



horizontal section CC'



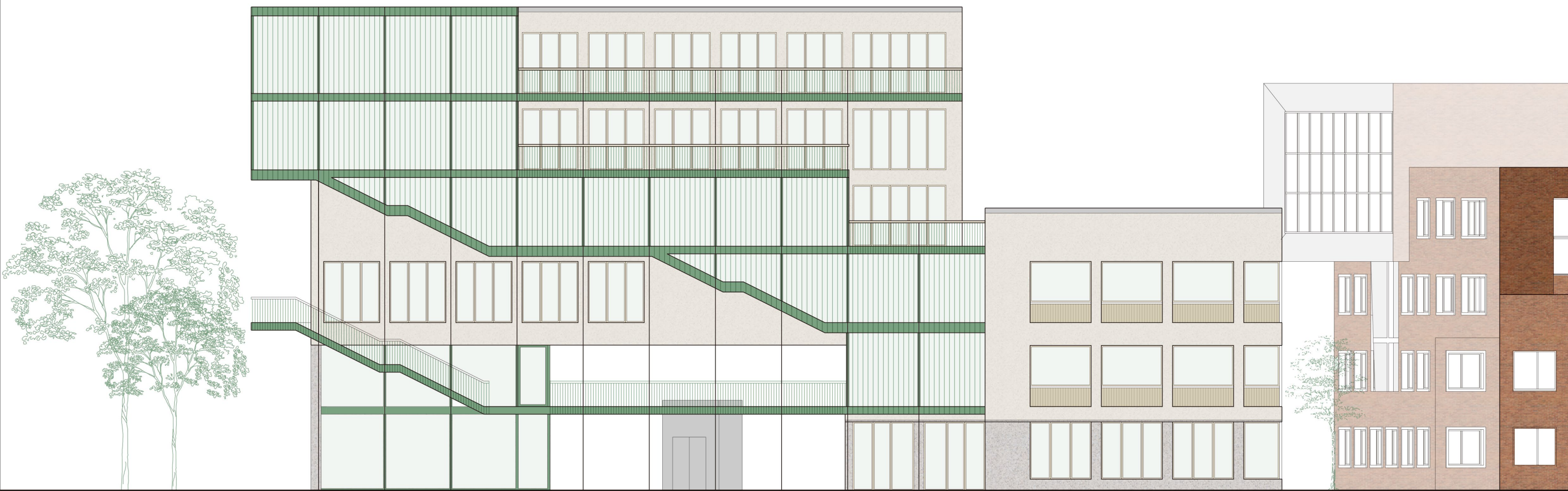
horizontal section DD'



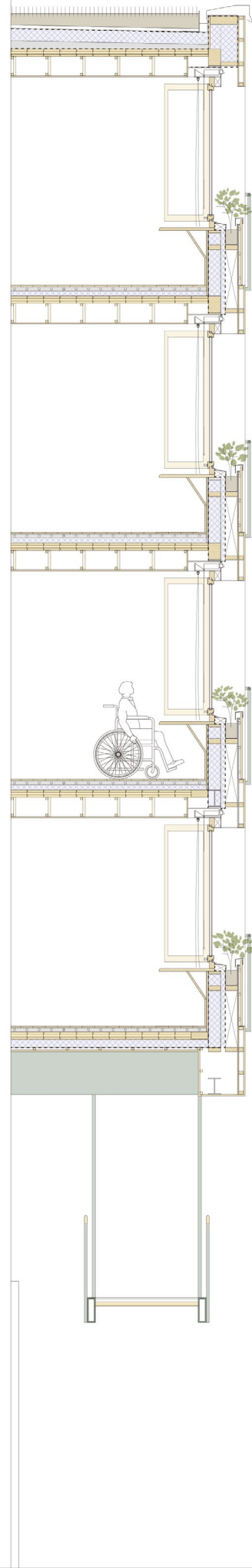
1 floor construction
 parquet floor with oil 20mm
 heating screed 40mm
 insulation 40mm
 solid timber floor 90mm
 batten 30/115mm
 plasterboard ceiling 15mm

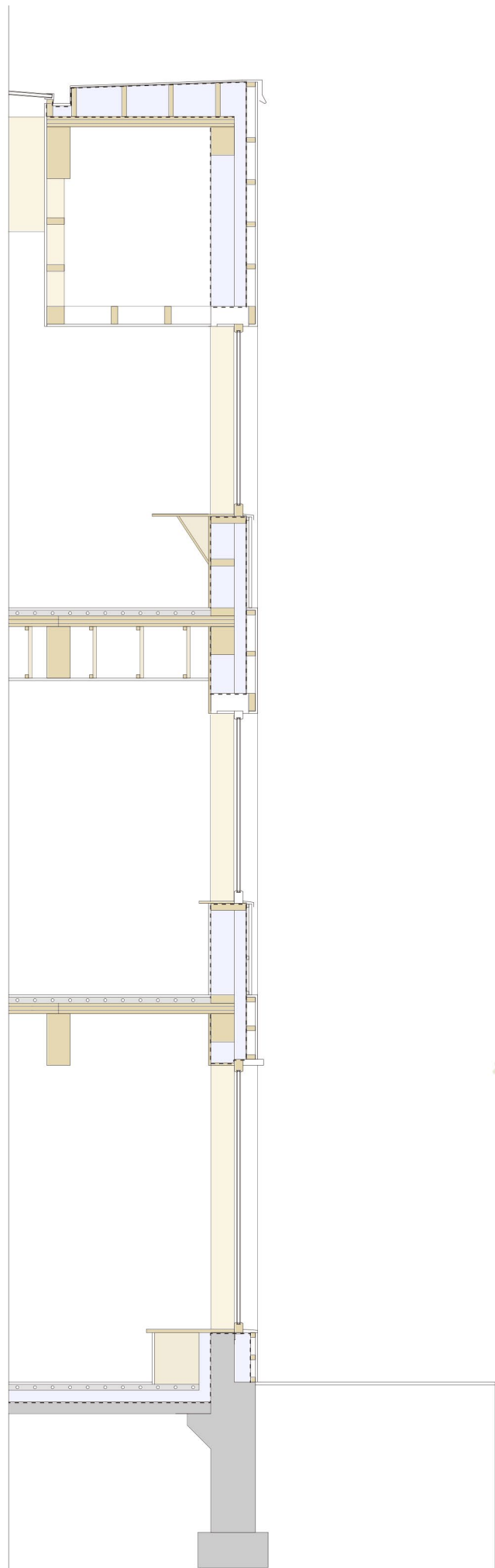
2 wall construction
 timber siding 20mm
 aluminum rail 20mm
 plywood 15mm
 timber frame 100mm
 moisture-diffusing membrane
 insulation 50mm
 timber frame+insulation 100mm
 vapor barrier
 plywood 20mm
 plaster

3 wood window with double glazing
 4 glulam beam 150/200mm
 5 air inlet
 6 curtain
 7 steel balustrade
 8 planter
 9 metal mesh

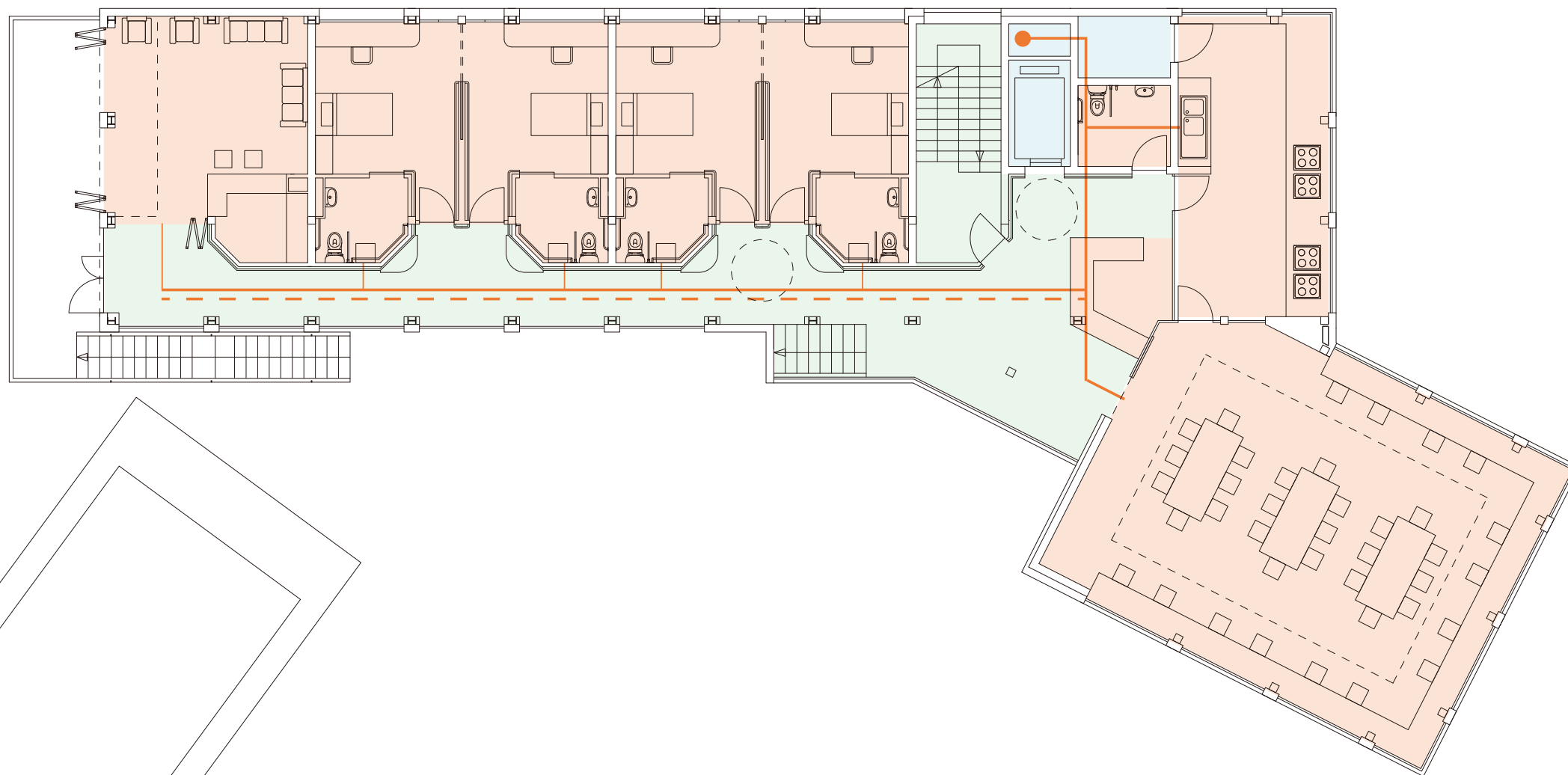


elevation corridor side



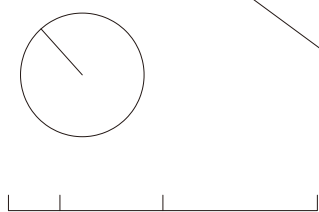


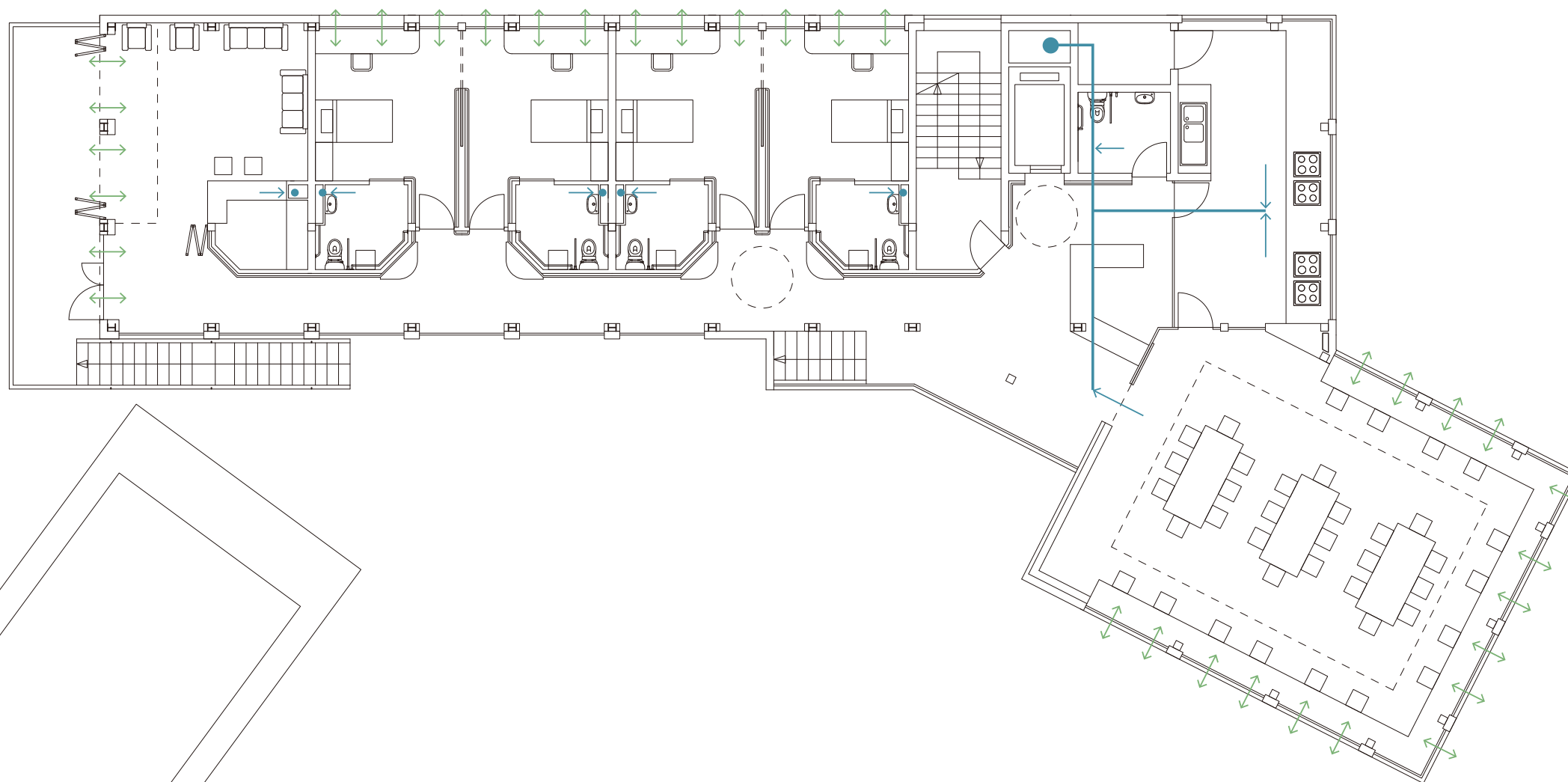
Comfortable and sustainable environment for people in need of care



- warm space
- greenhouse space
- cool space
- floor heating pipe
- floor heating in greenhouse space

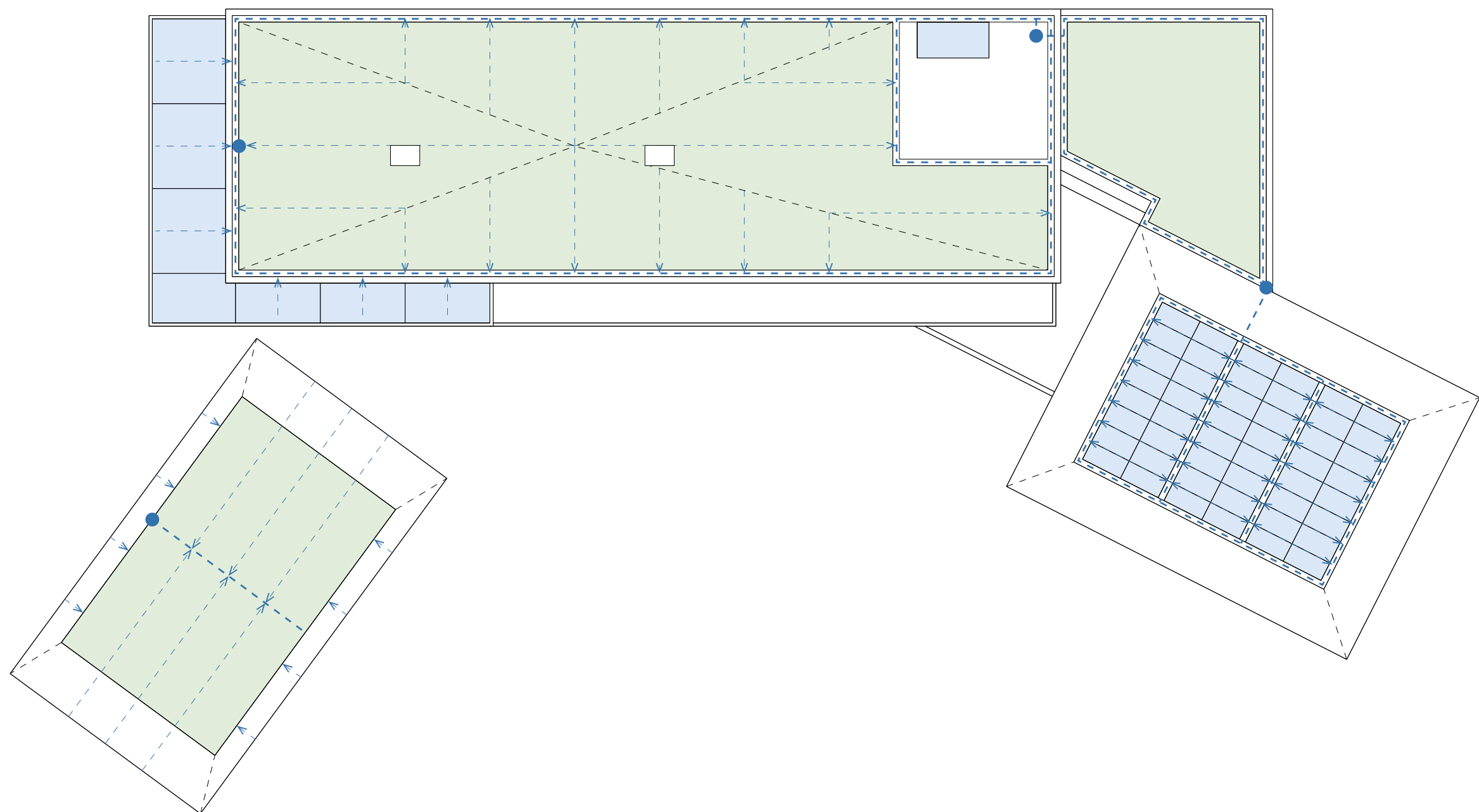
Heating





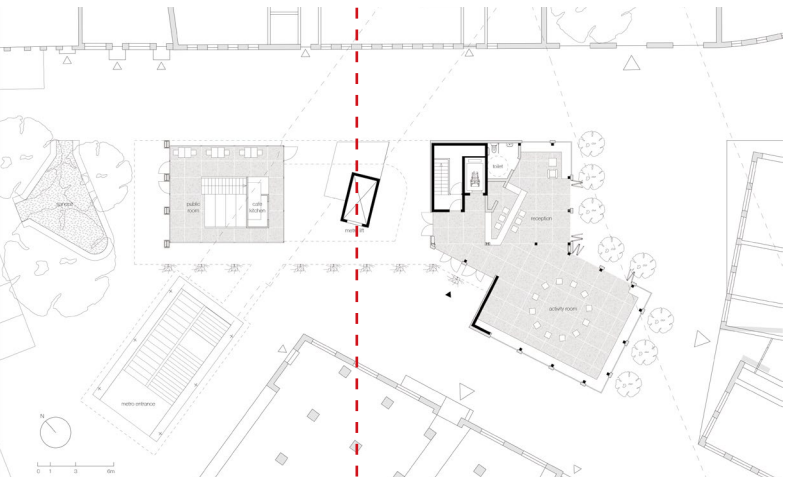
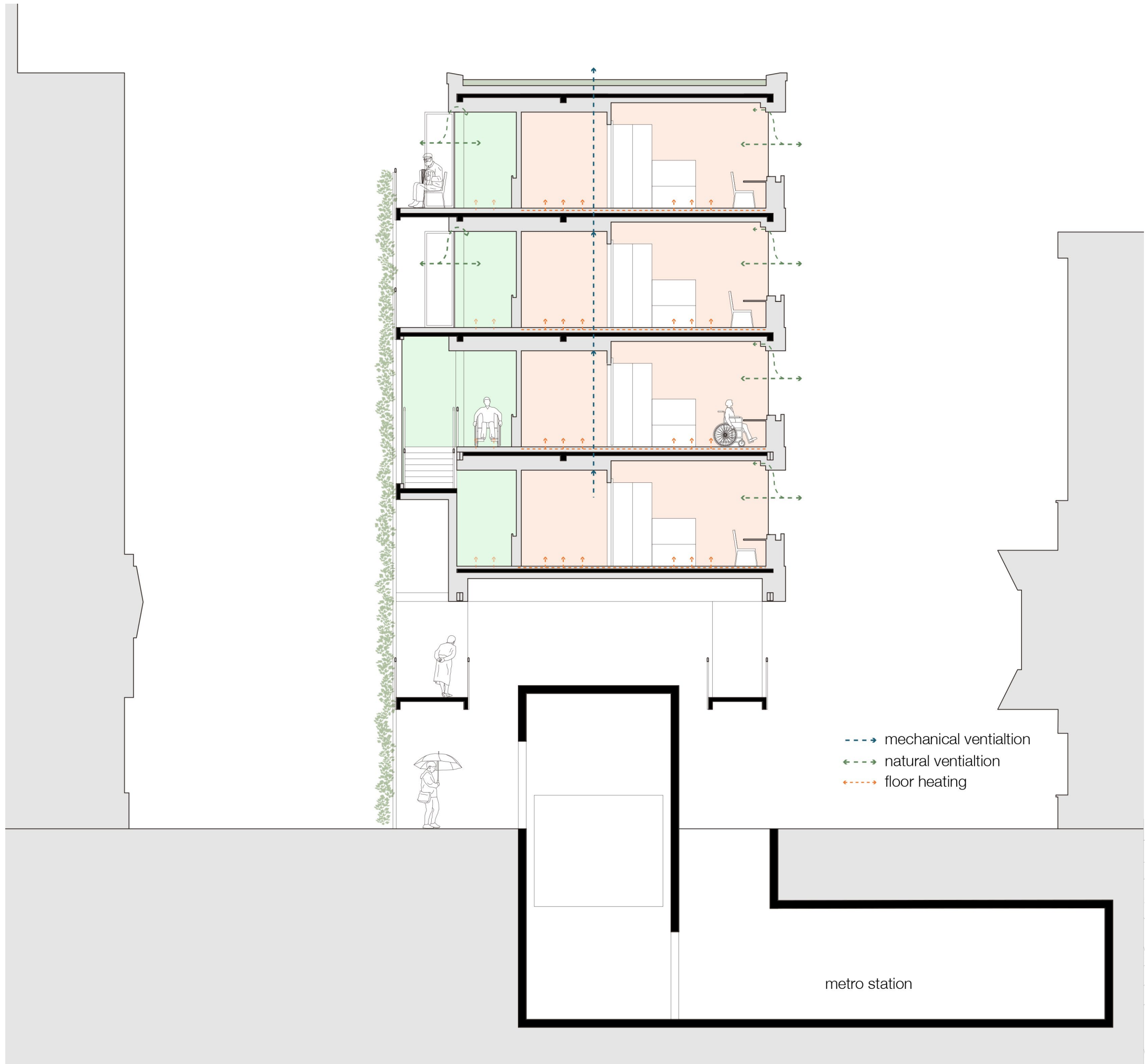
↔ natural ventilation
→ mechanical ventilation

Ventilation



- downpipe
- - - gutter
- - -> roof fall

roof drainage



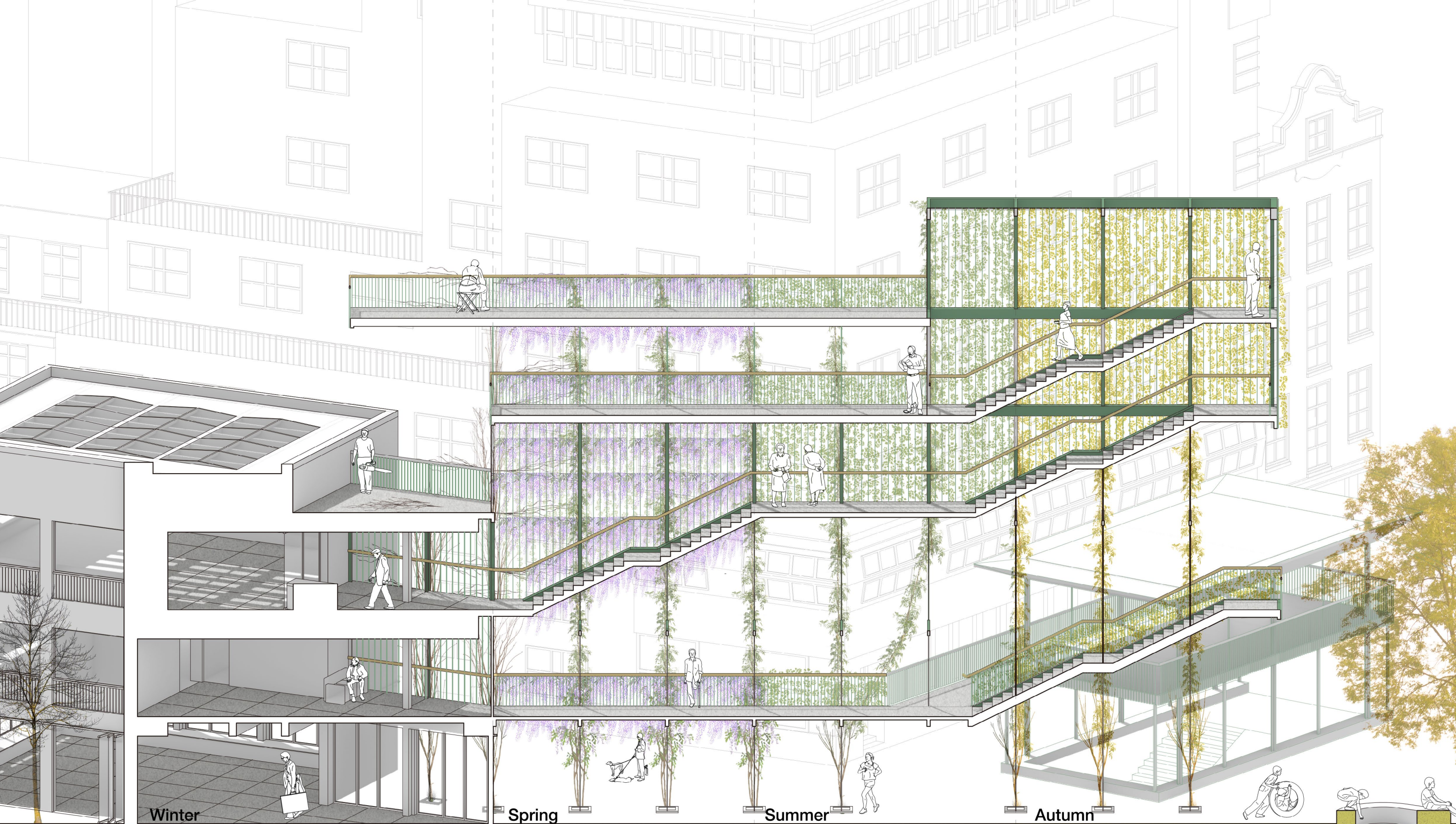
Growing architecture



Dijkstraat 6-20



Dijkstraat 6-20



Winter

Prune the wisteria to let more sunshine in and prepare for the coming blossom

Spring

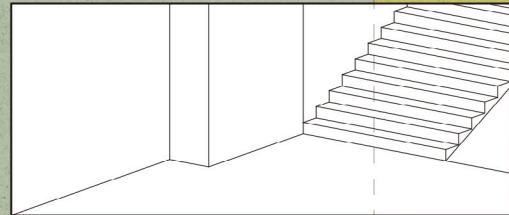
Blossom of wisteria become a character of the building

Summer

Leaves become denser, providing shading

Autumn

Leaves turn yellow.



Reflection: the sense of care in architecture