

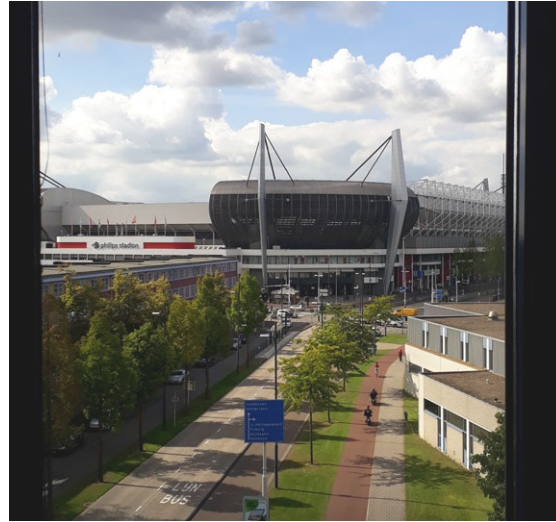
ARCHITECTURAL YOUNG CLASSICS

by Lucca M. Fischer

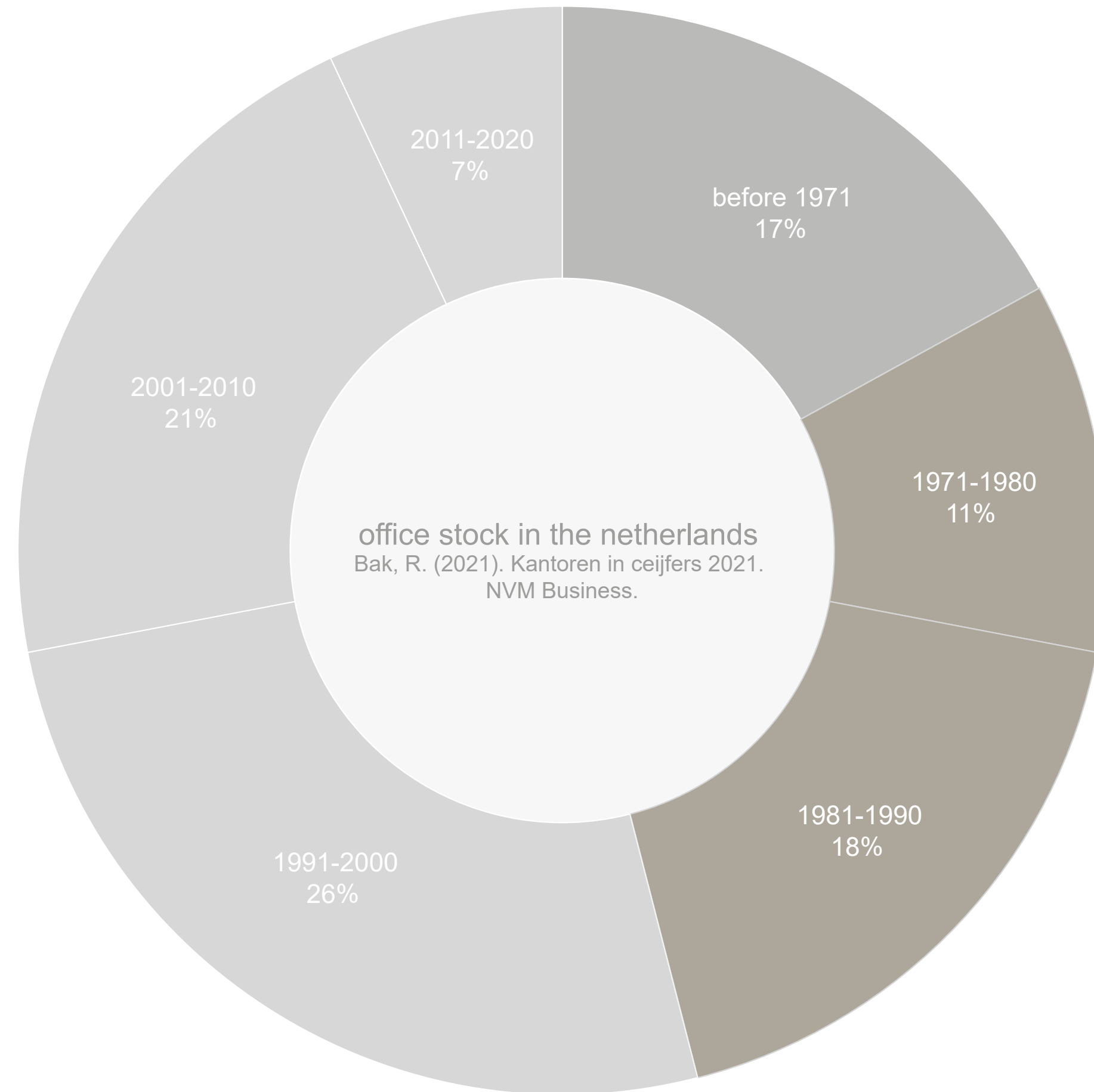




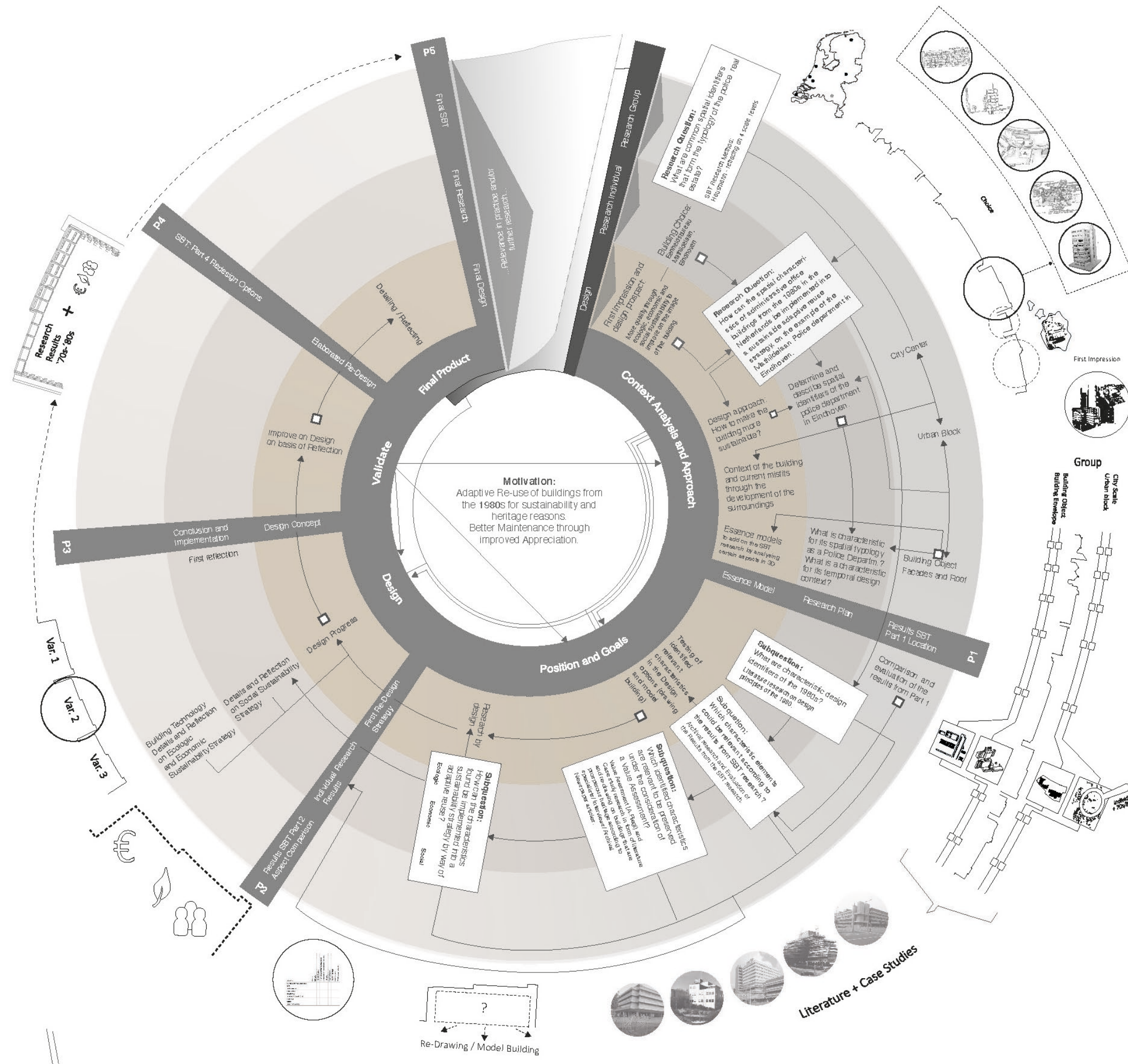


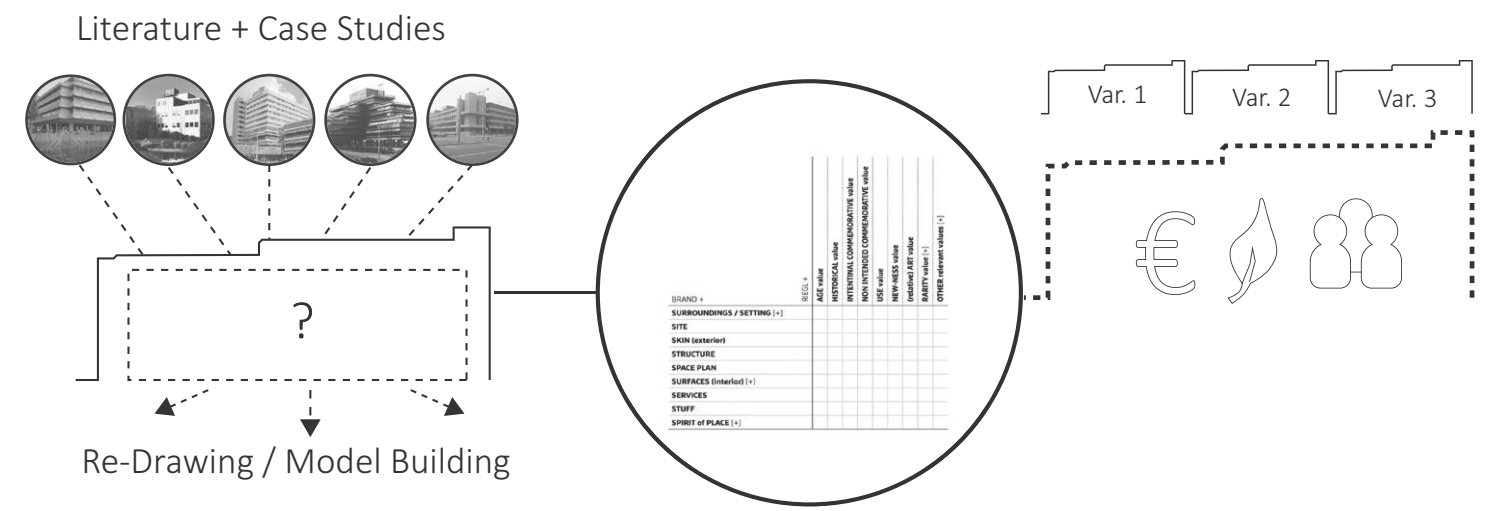
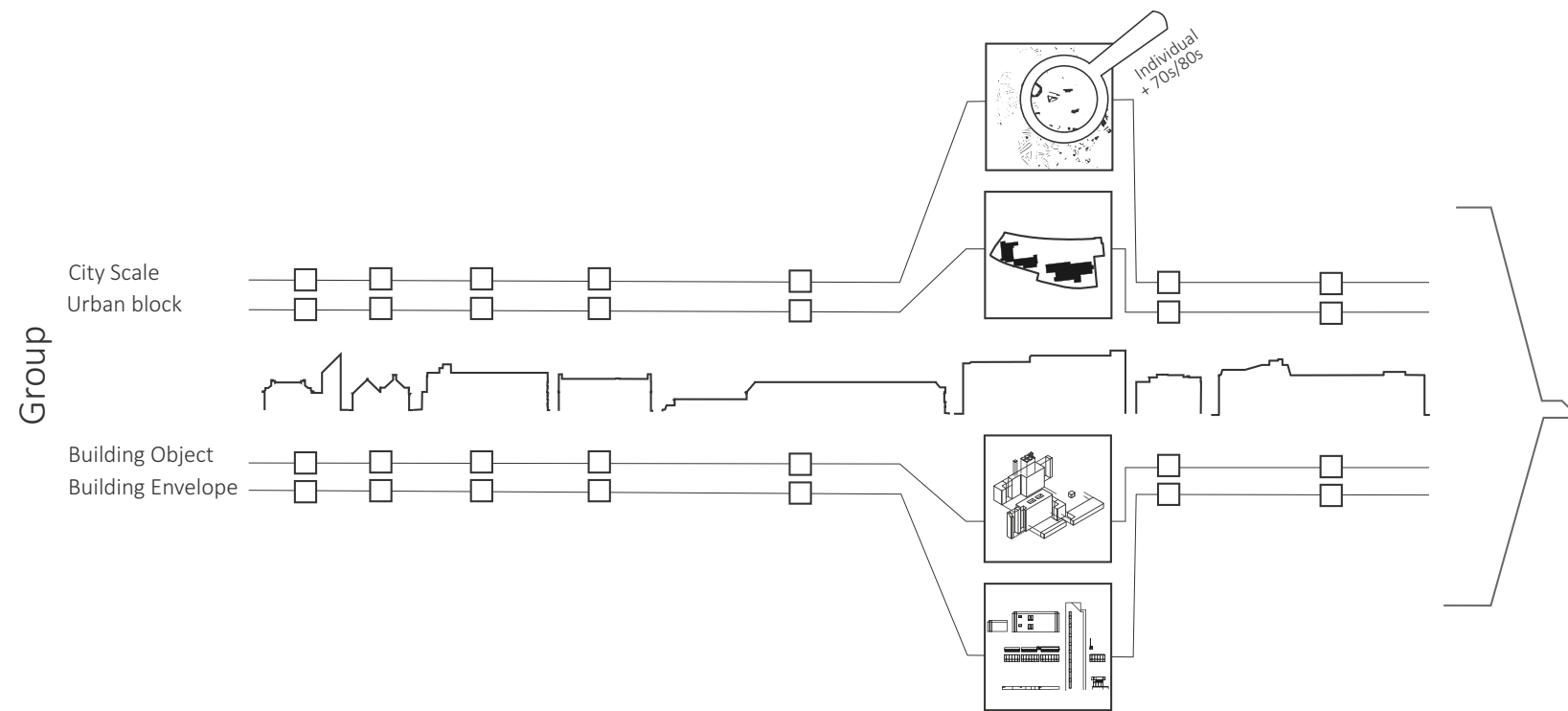


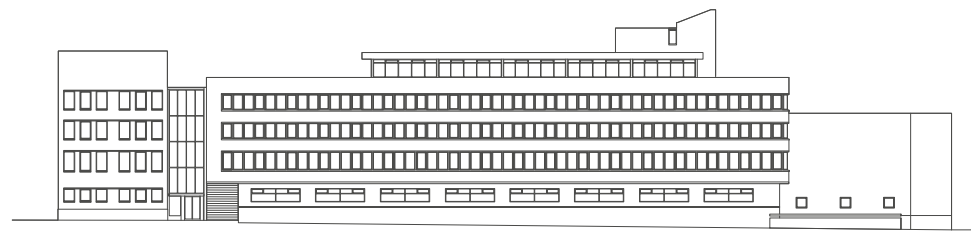
*Photos of the Policebuilding from the inside
(blackened)



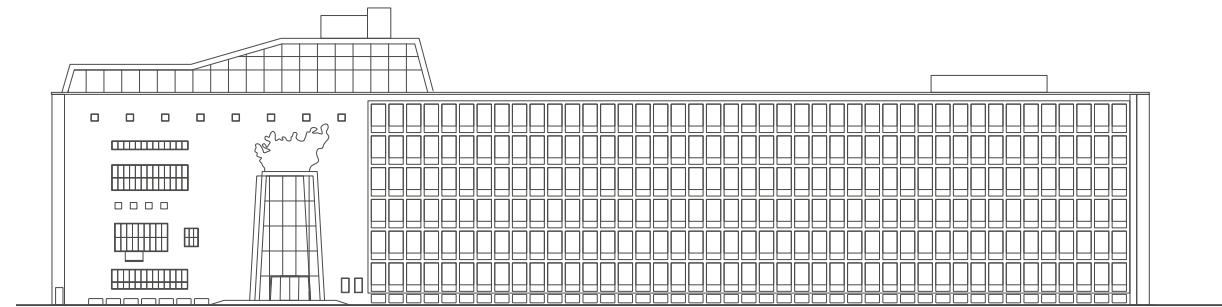




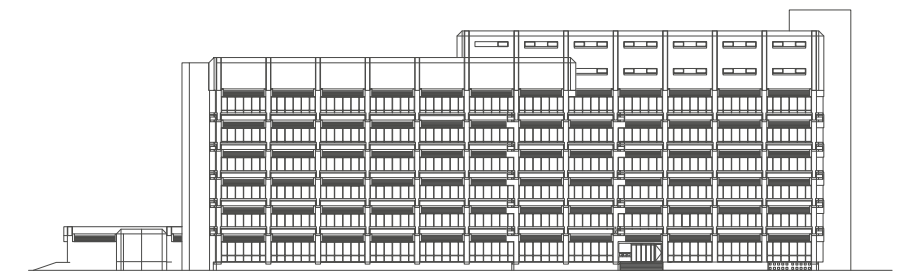




GRONINGEN 1971



THE HAGUE 1985



EINDHOVEN 1981

12 CHARACTERISTICS:

The Surroundings

- 1.1. Location close to the city center - **Choice for dwellings**
- 1.2. Low building height
- 1.3. Relatively less dense - **Densification**



The Building

- 2.1 Strong load bearing materials: Relevant for additions or changed use- **Against large style demolition**
- 2.2 Grid based design: Flexible Re-use- **see above**



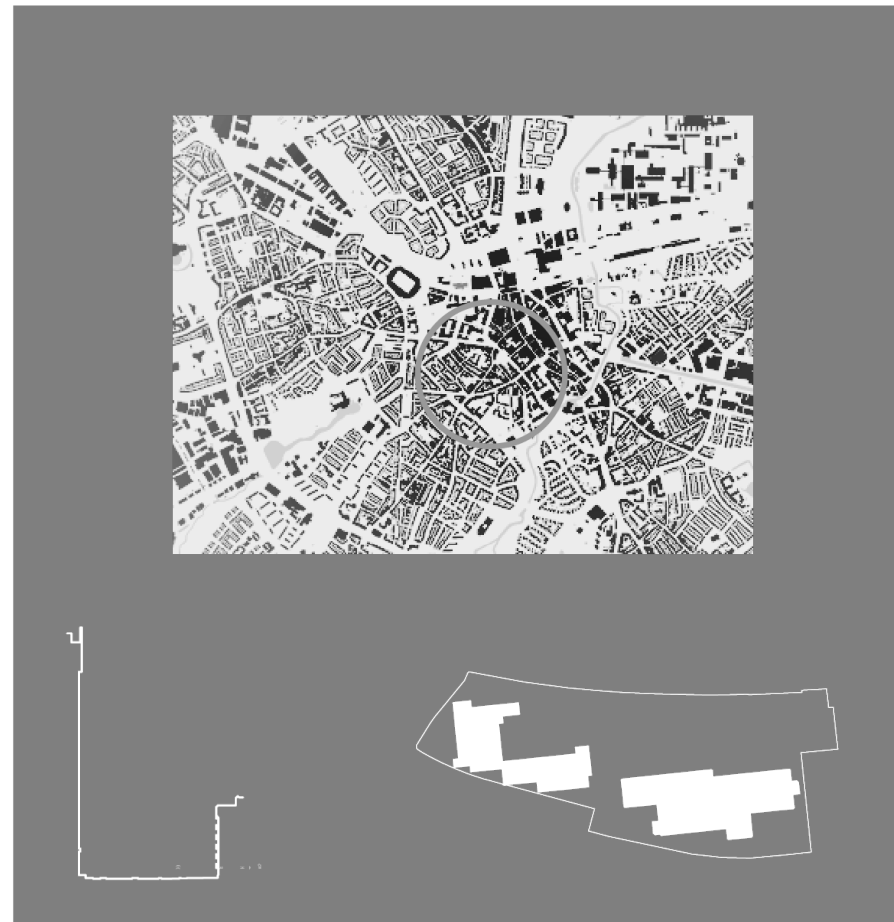
Issues

- 3.1 Insulation: Heating, Cooling, Sound - **Facade, Additions, Insulation, Materials**
- 3.2 Fire Protection and Escape Ways
- 3.3 Harmful Materials (e.g.) Asbestos

Design Changes

- 4.1 Prefabrication saving time and money - **stay visible**
- 4.2 More awareness for modern heritage
- 4.3 Play of form and Colour (e.g. Brutalism, Structuralism, Post Modernism) - **relevant in every design decision**
- 4.4 Accessibility: **Basis for current Status**



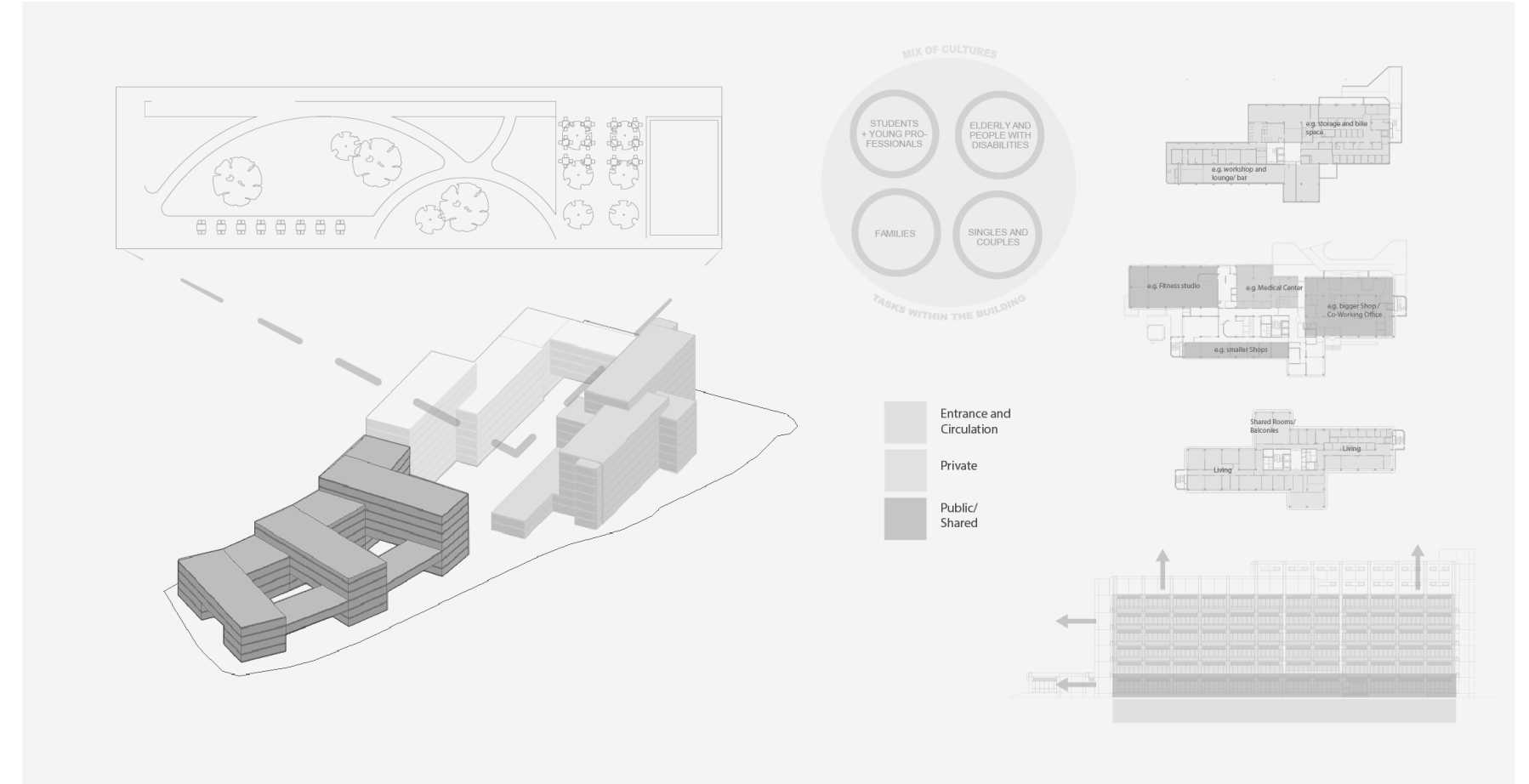


INFLUENCE OF RESEARCH ON THE DESIGN

12 CHARACTERISTICS:

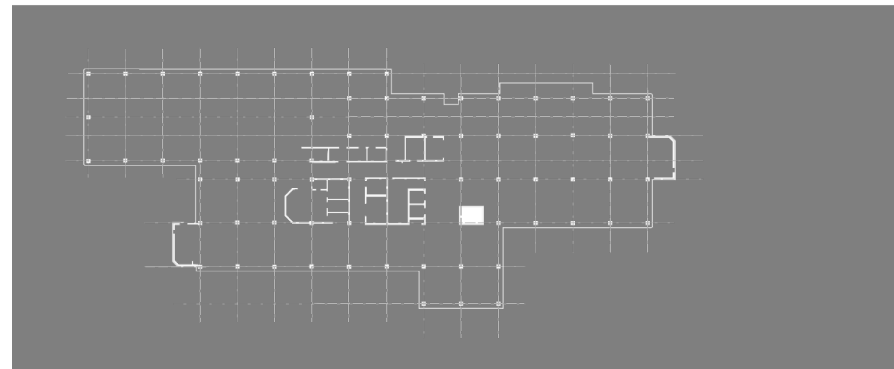
The Surroundings

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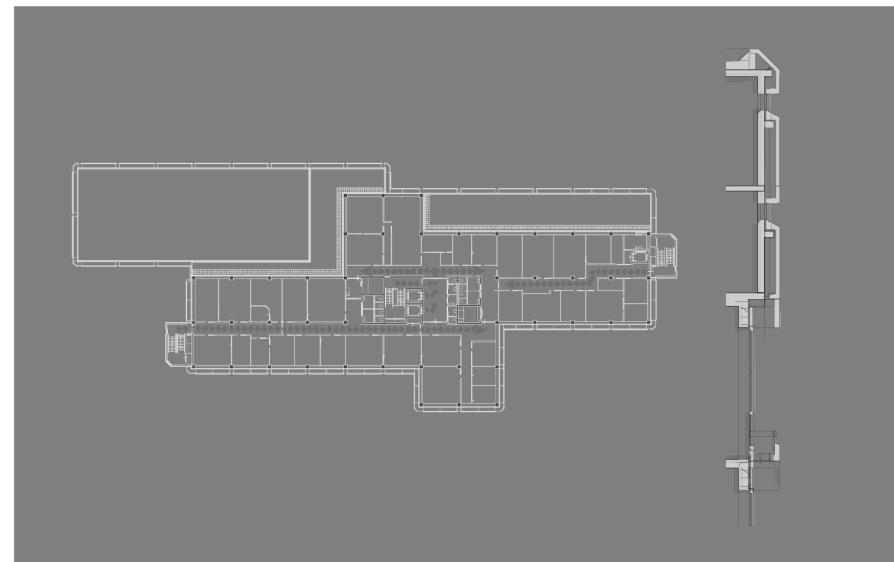


The Surroundings

- 1.1. Location close to the city center - **Choice for dwellings**
- 1.2. Low building height
- 1.3. Relatively less dense - **Densification**

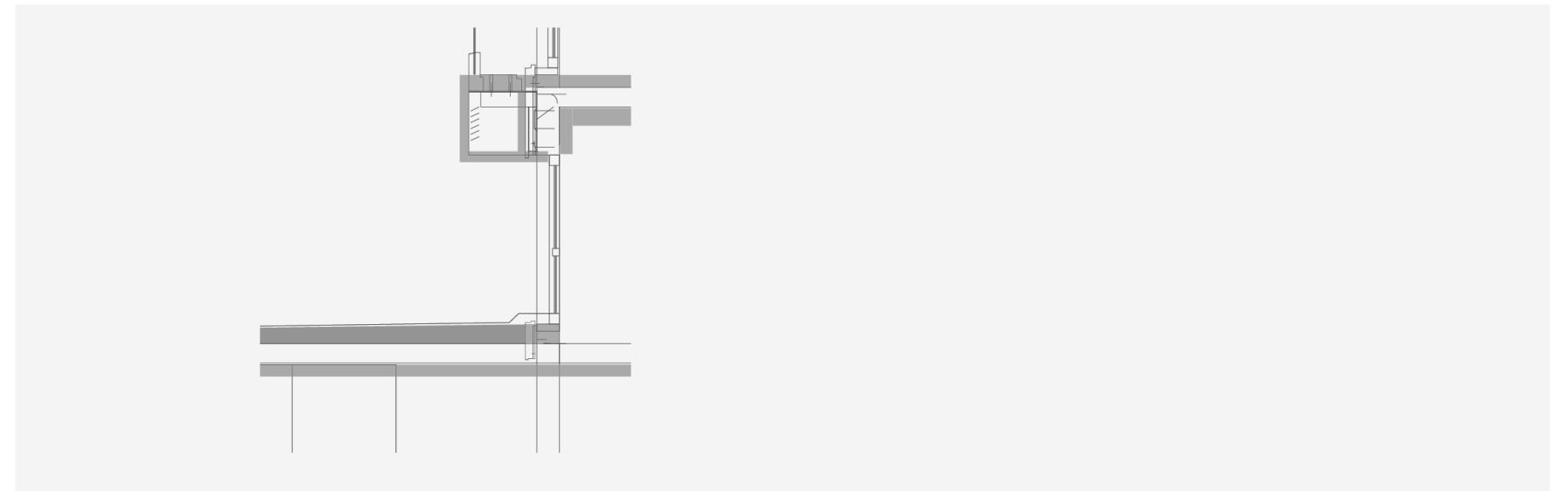
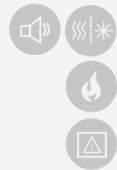


The Building
 2.1 Strong load bearing materials: Relevant for additions or changed use- **Against large style demolition**
 2.2 Grid based design: Flexible Re-use- **see above**



Issues
 3.1 Insulation: Heating, Cooling, Sound
Additions, Insulation, Materials
 3.2 Fire Protection and Escape Ways
 3.3 Harmful Materials (e.g.) Asbestos

Facade,



The Building

2.1 Strong durable load bearing materials: Relevant for additions or changed use- **Against large style demolition**

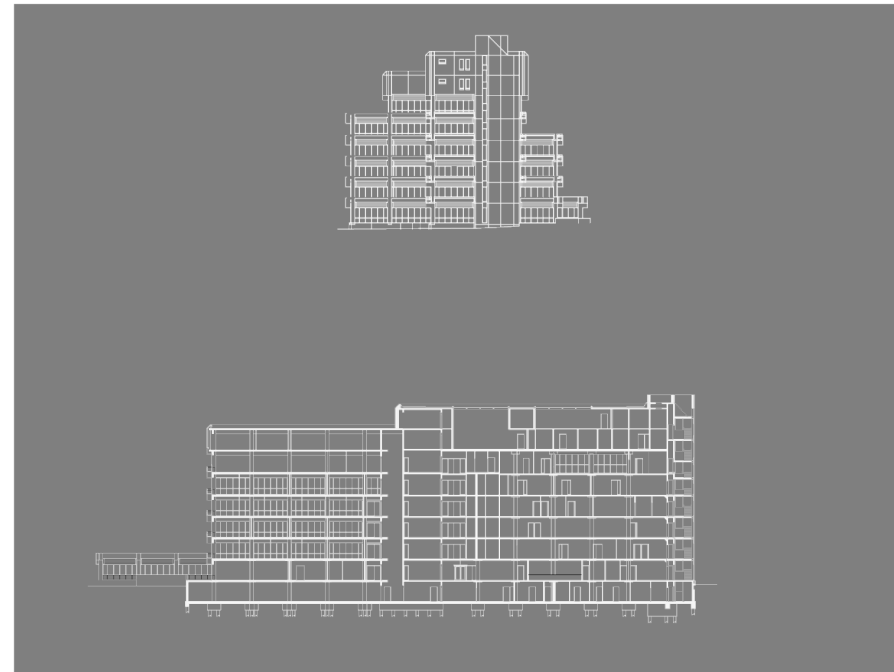
2.2 Grid based design: Flexible Re-use- **see above**

Issues

3.1 Insulation: Heating, Cooling, Sound - **Facade, Additions, Insulation, Materials**

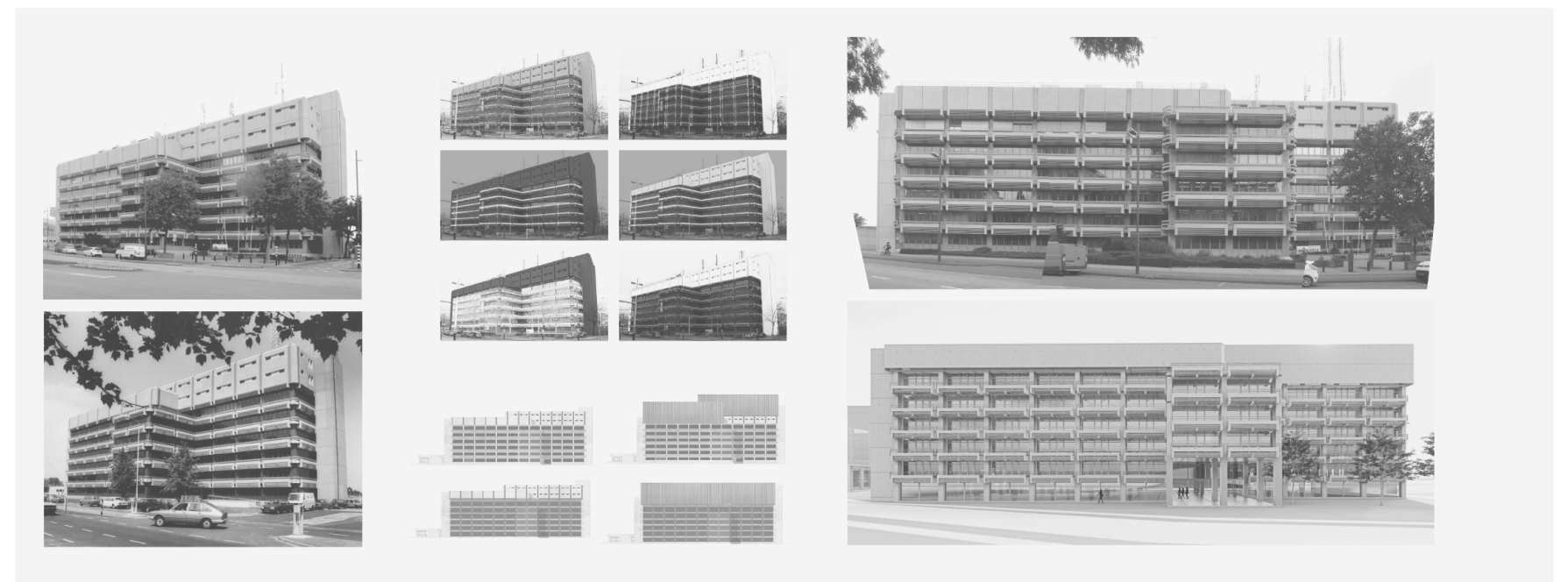
3.2 Fire Protection and Escape Ways

3.3 Harmful Materials (e.g.) Asbestos



Design Changes

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- 4.3 Play of form and Colour (e.g. Brutalism, Structuralism, Post Modernism) - **relevant in every design decision**
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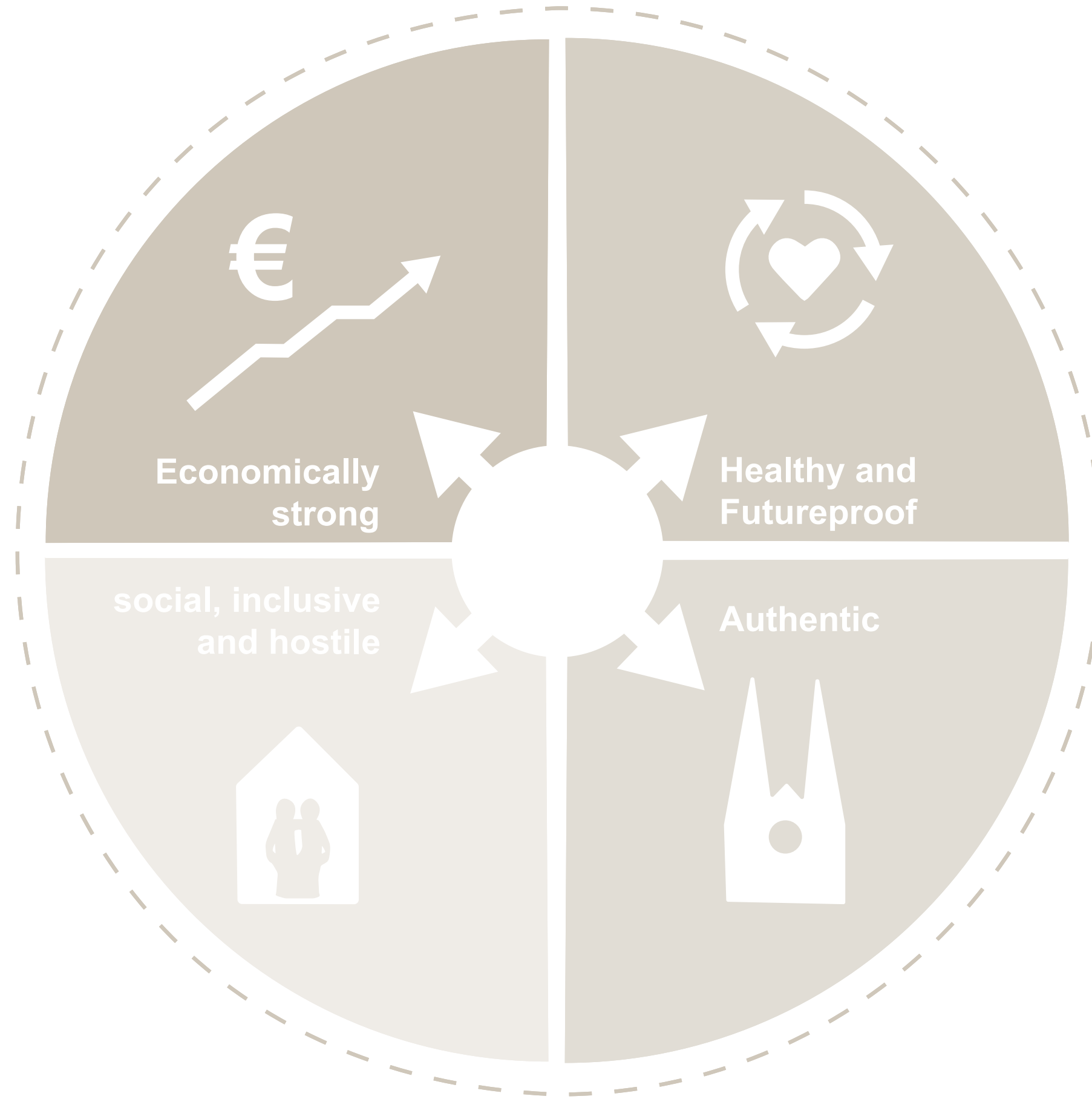


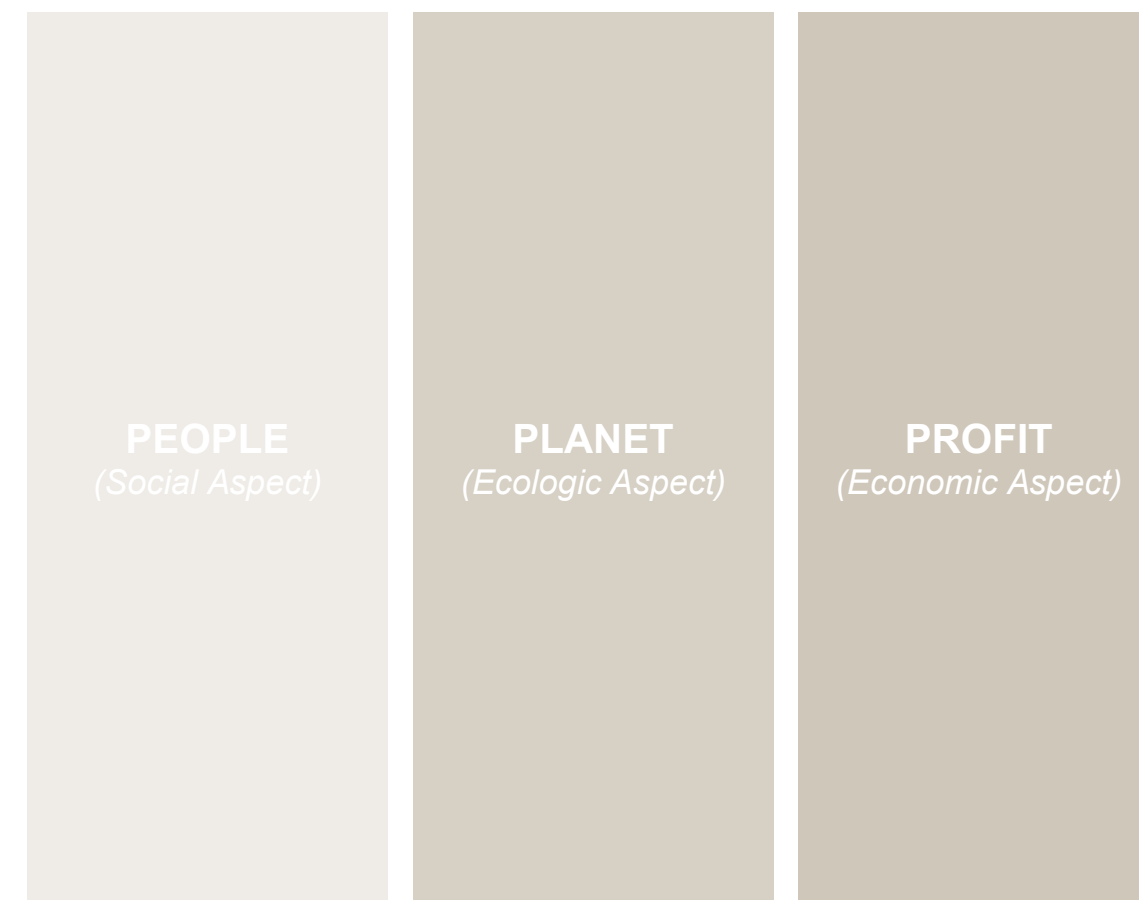
Design Changes

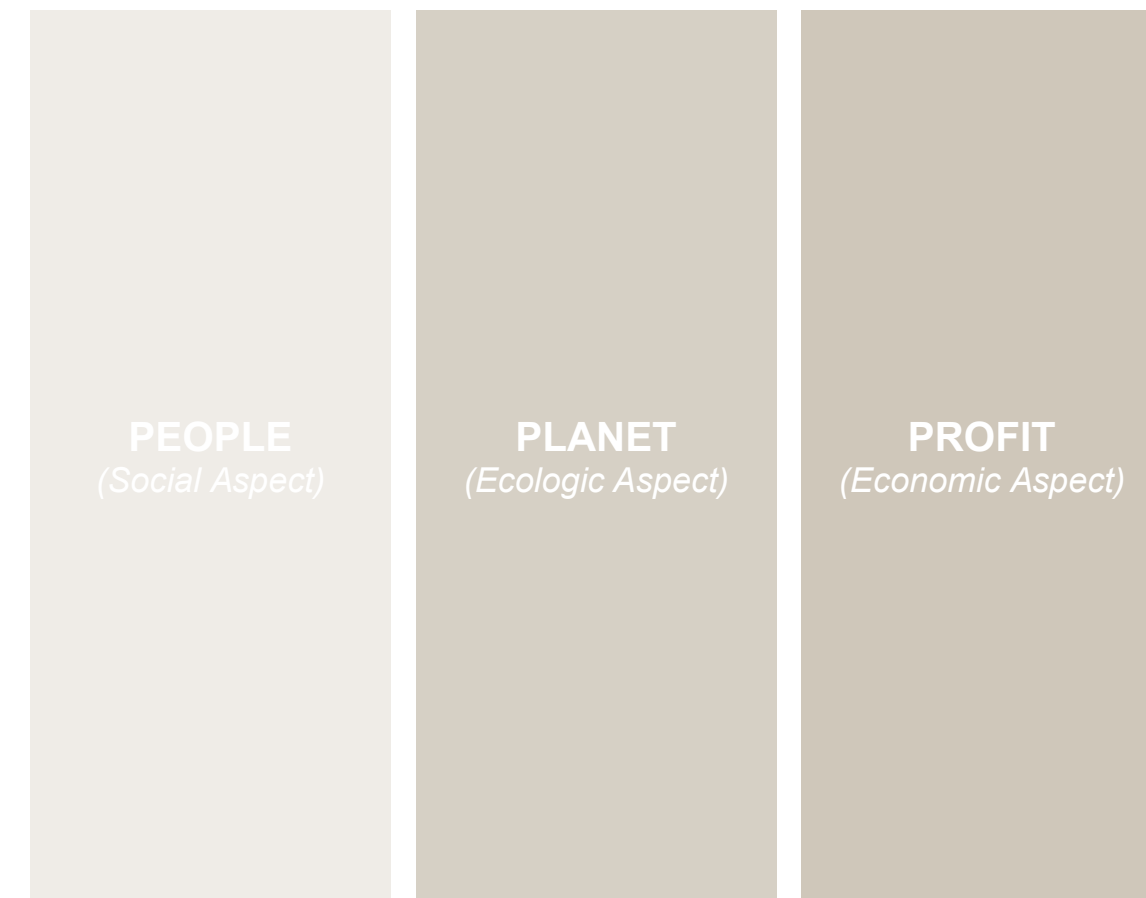
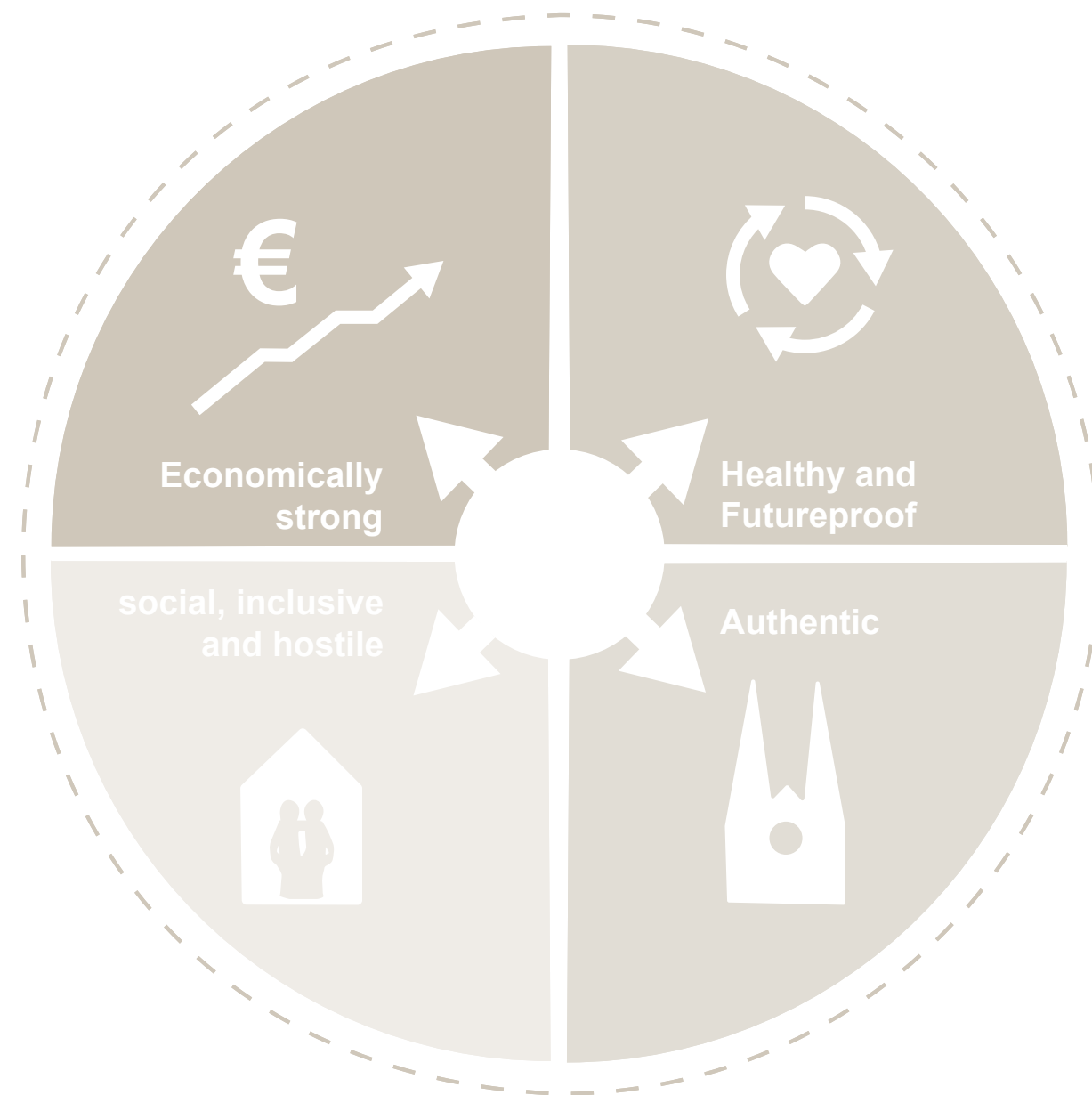
- 4.1 Prefabrication saving time and money - **stay visible**
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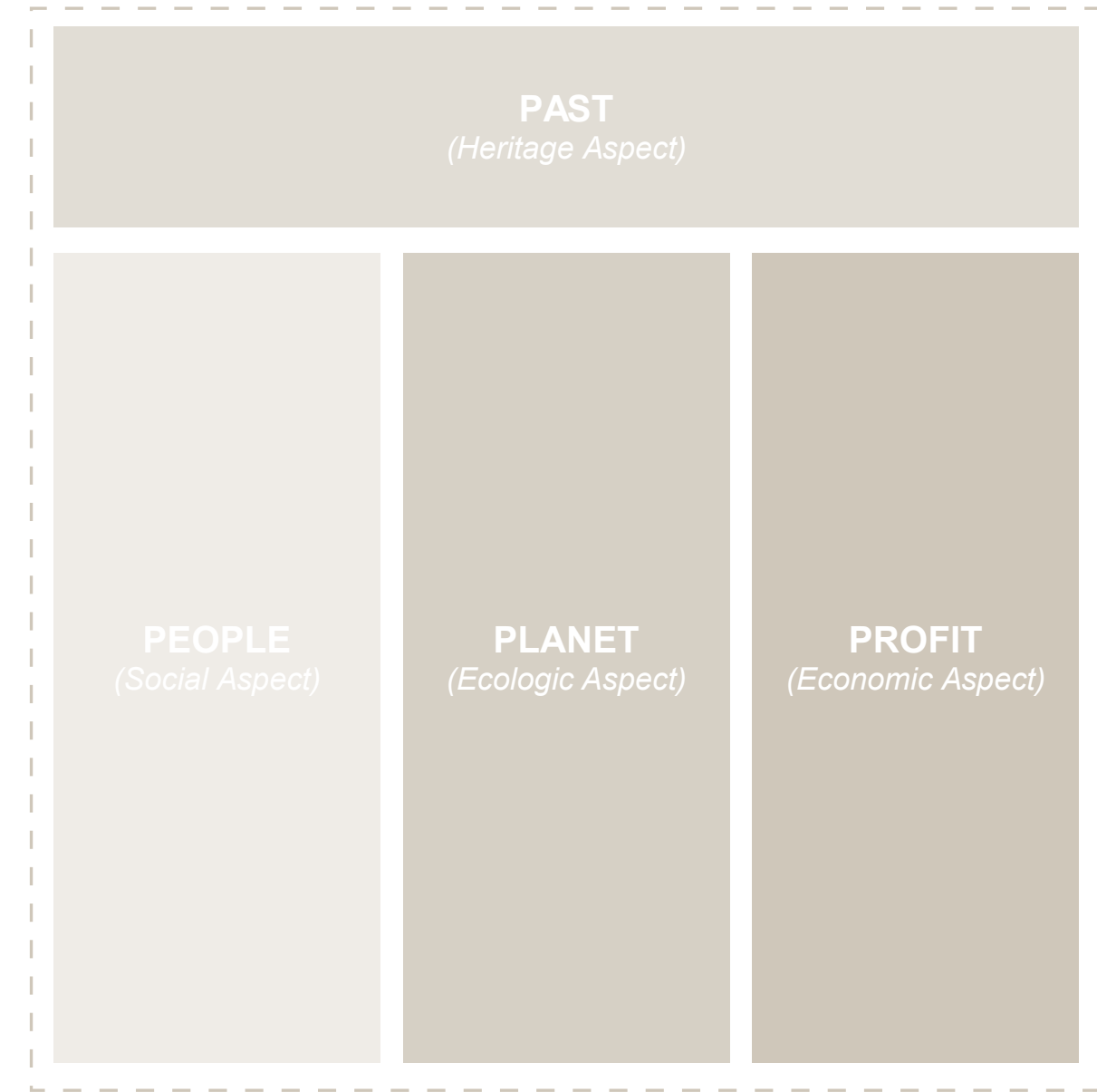
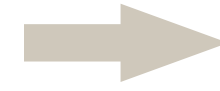
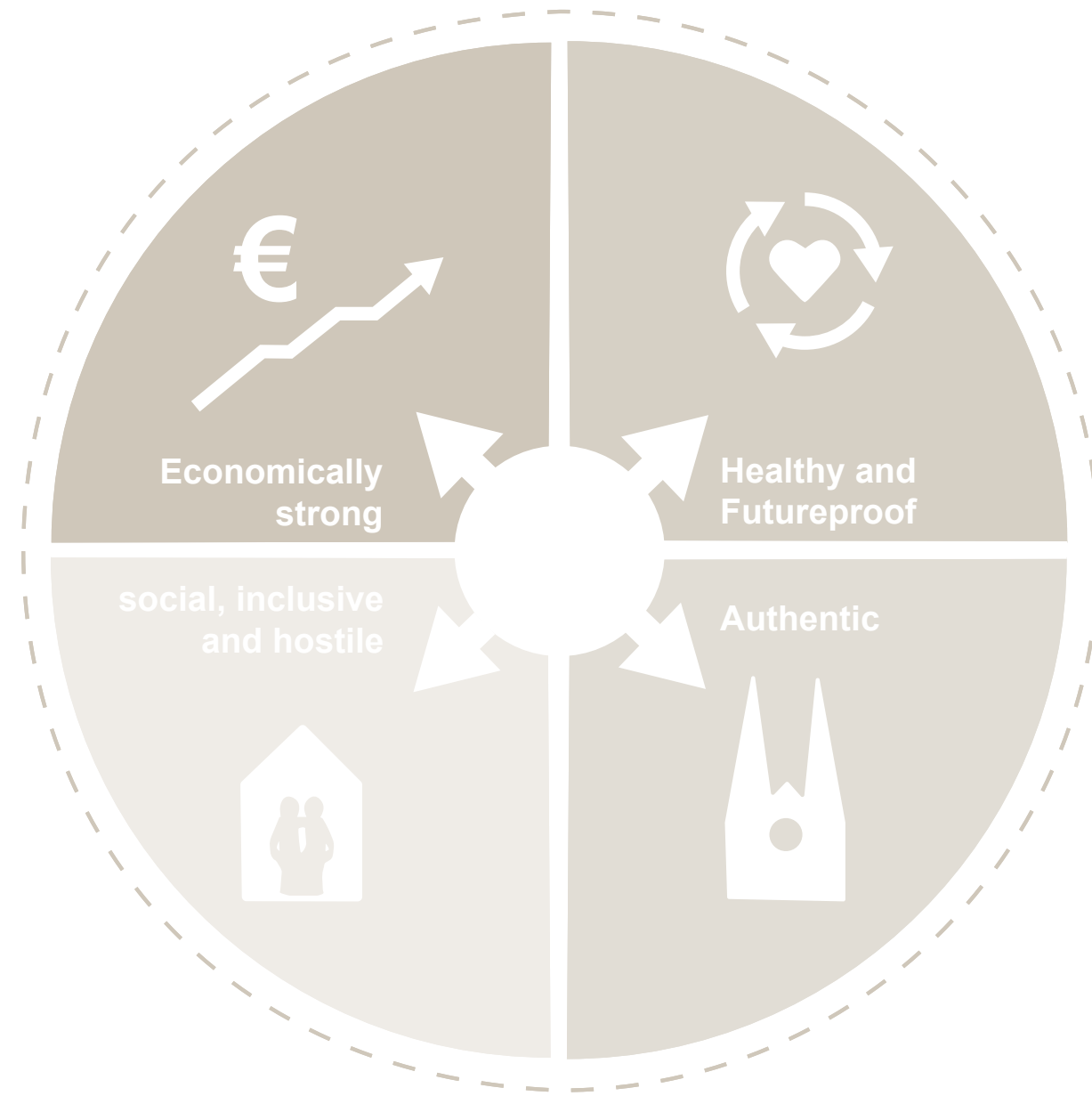


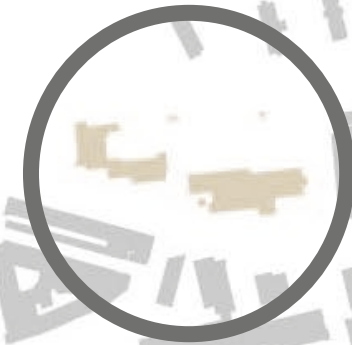
*Newspaper article on housing shortage in Eindhoven (blackened)









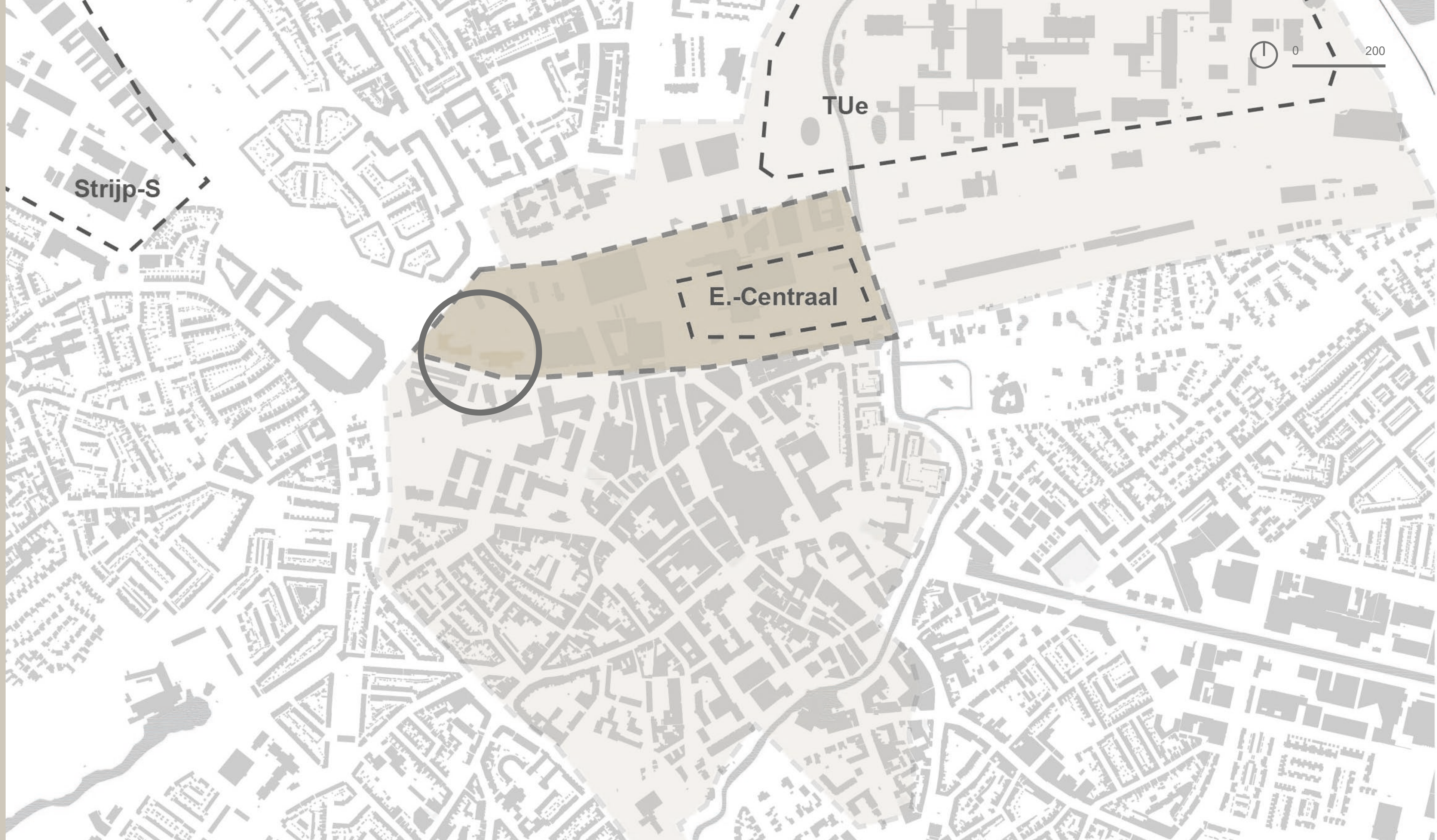


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200

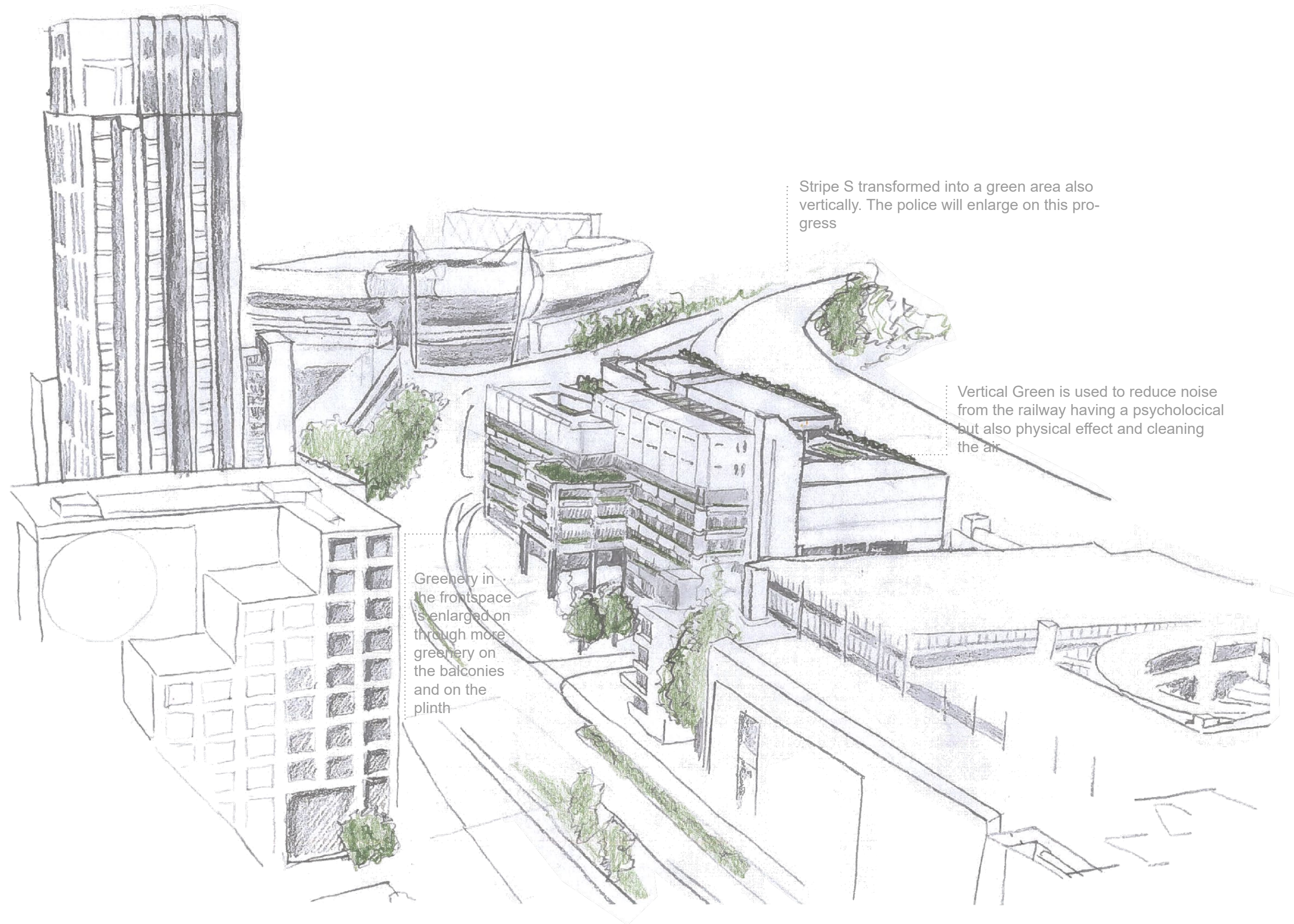






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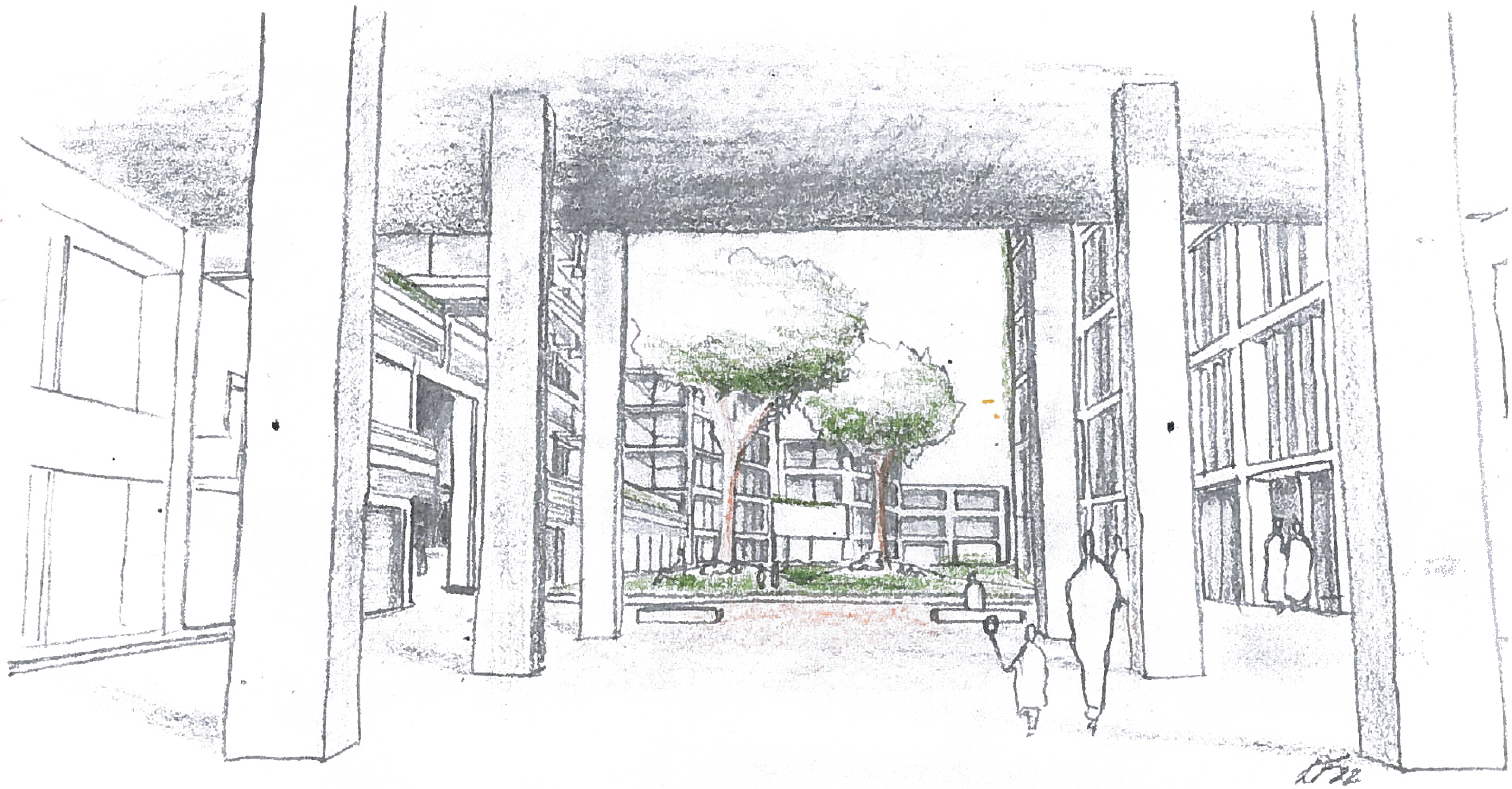
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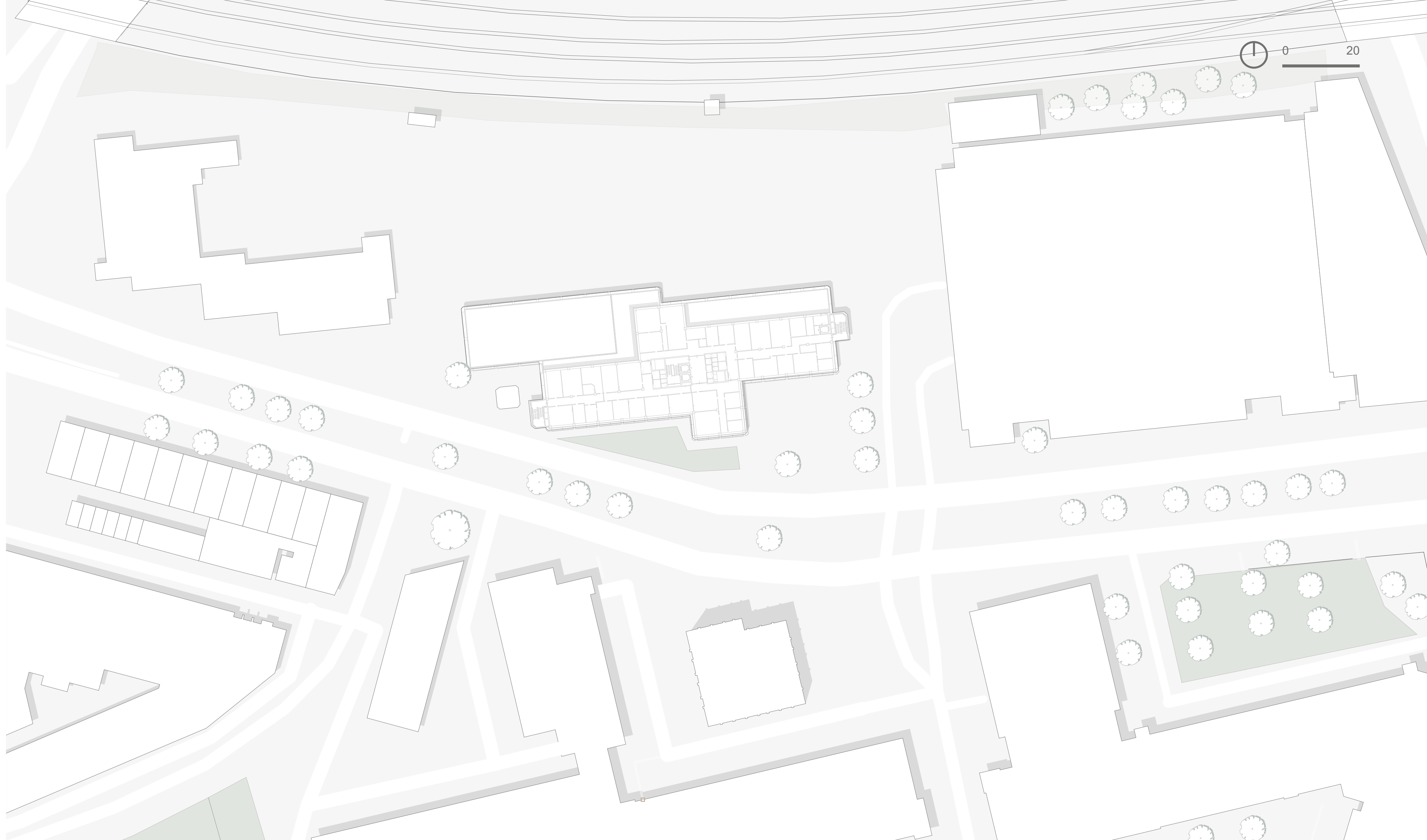
Stripe S transformed into a green area also vertically. The police will enlarge on this progress

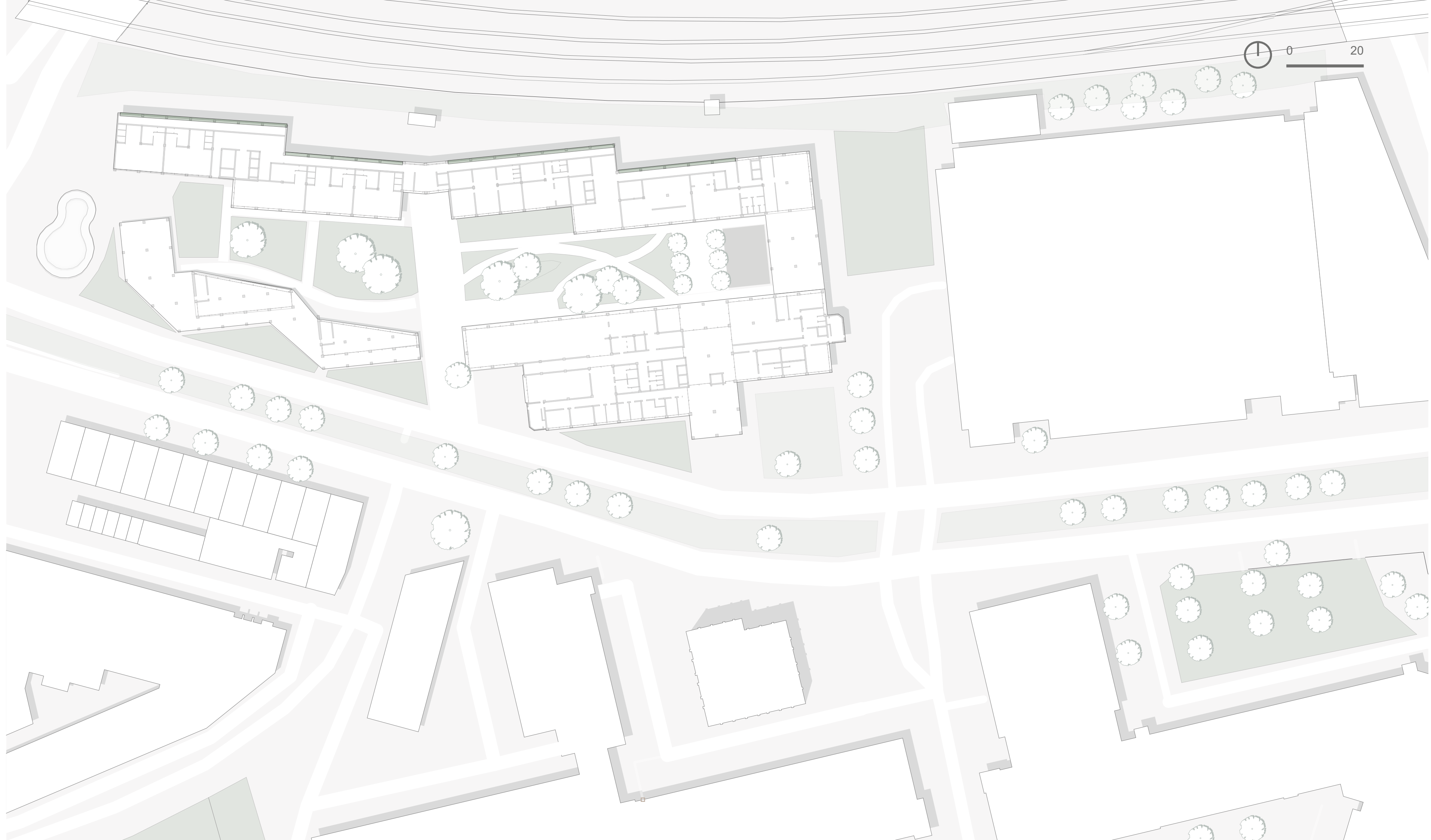
Vertical Green is used to reduce noise from the railway having a psychological but also physical effect and cleaning the air

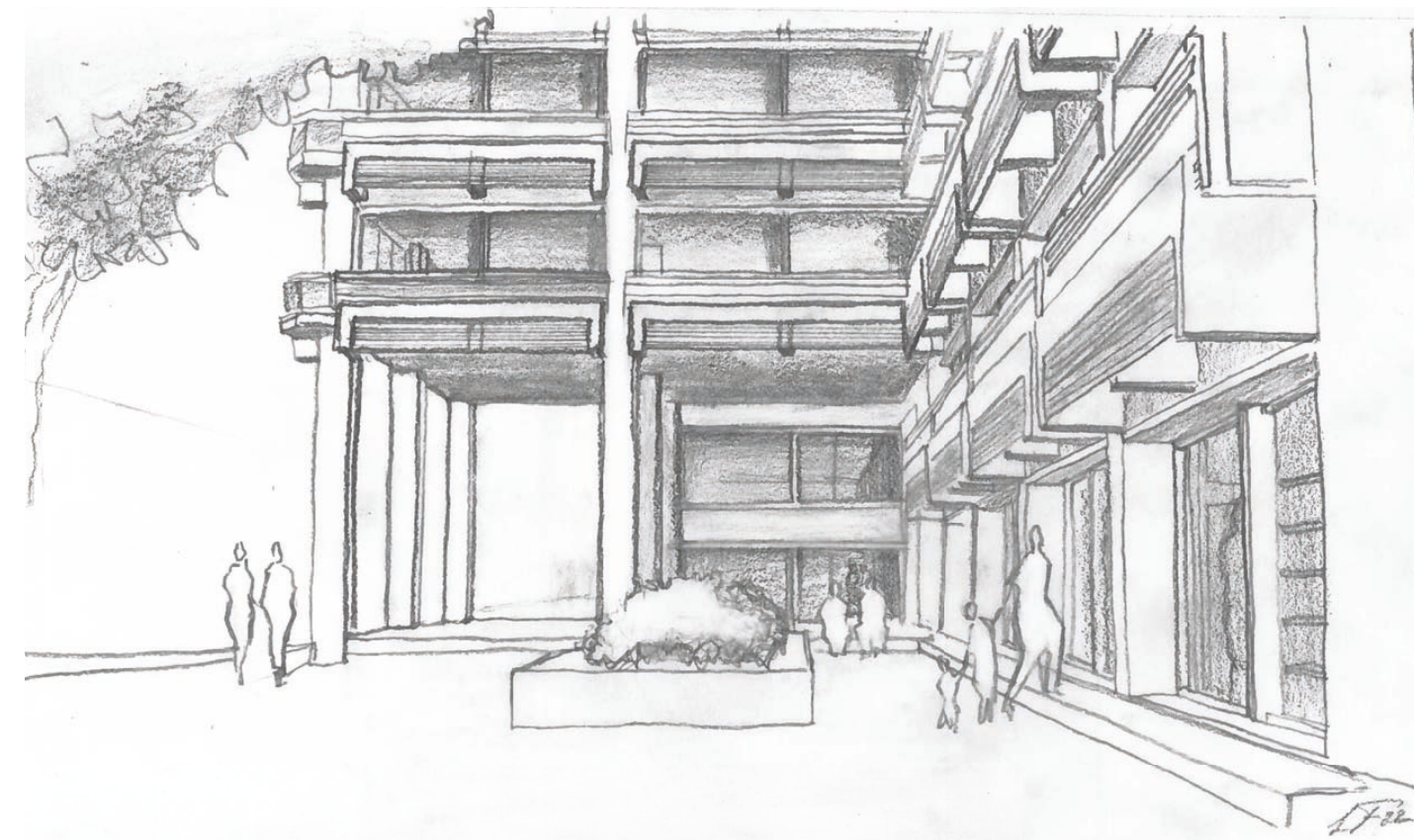
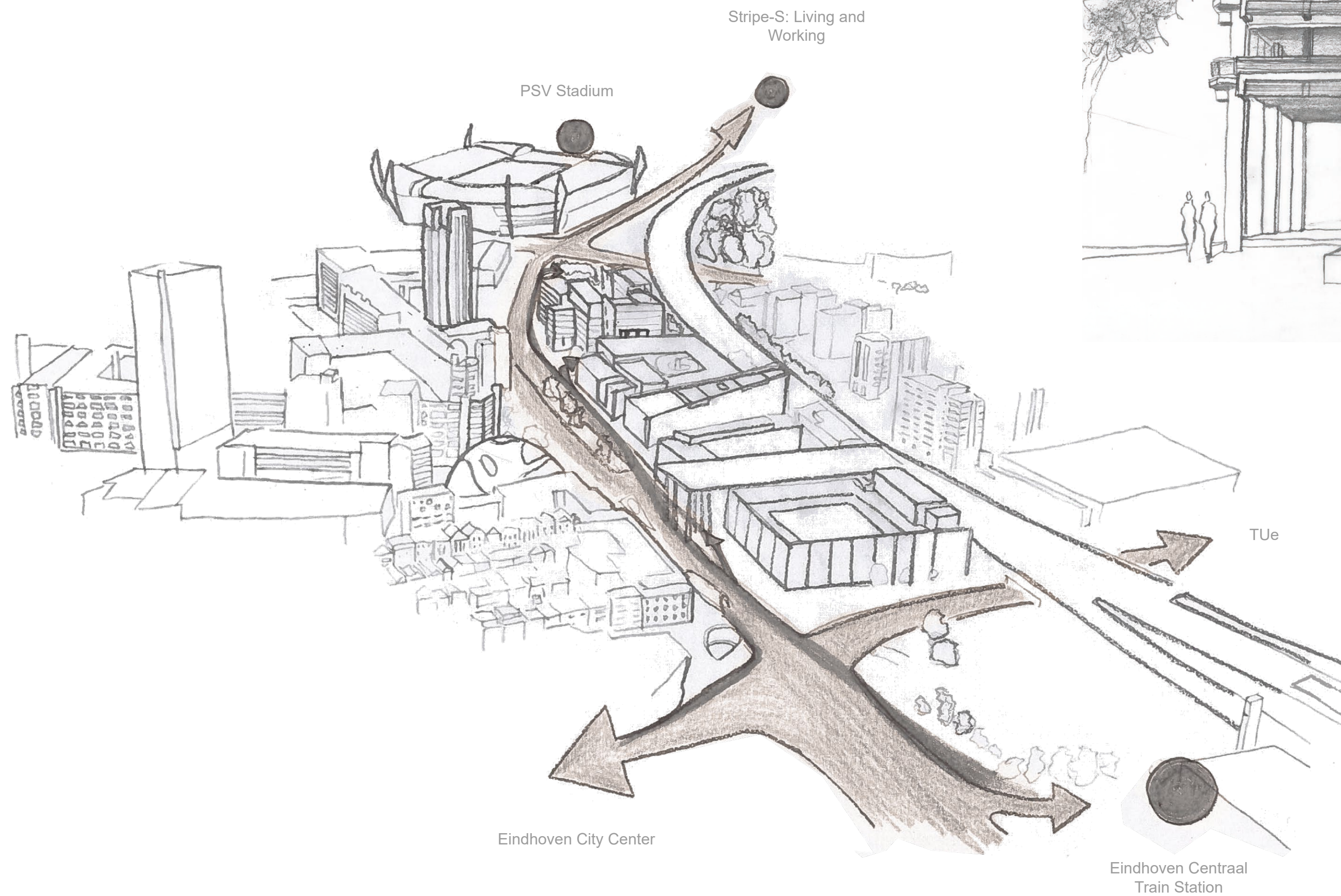
Greenery in the frontspace is enlarged on through more greenery on the balconies and on the plinth



FROM A CLOSED SIDE TO THE STREET...





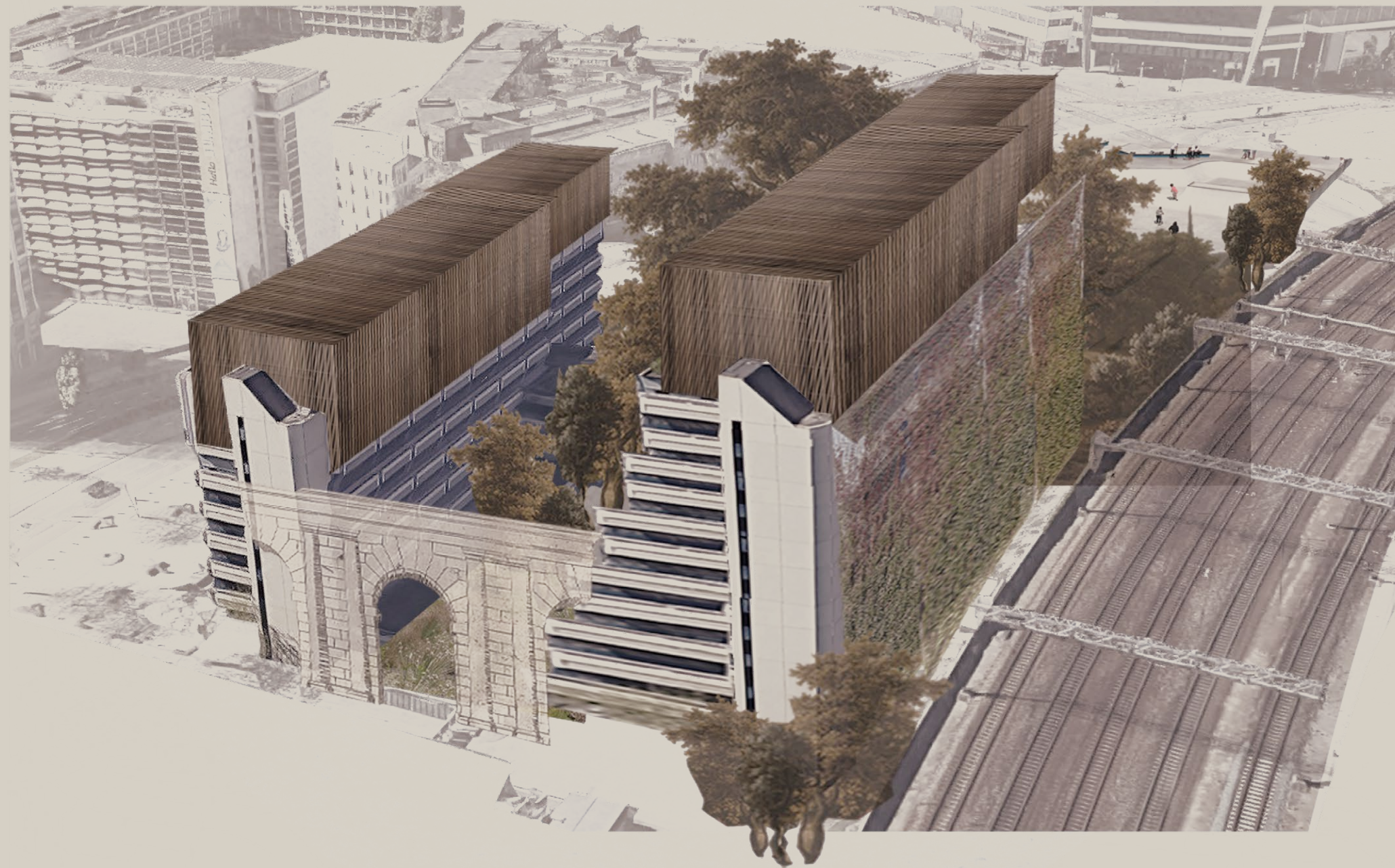


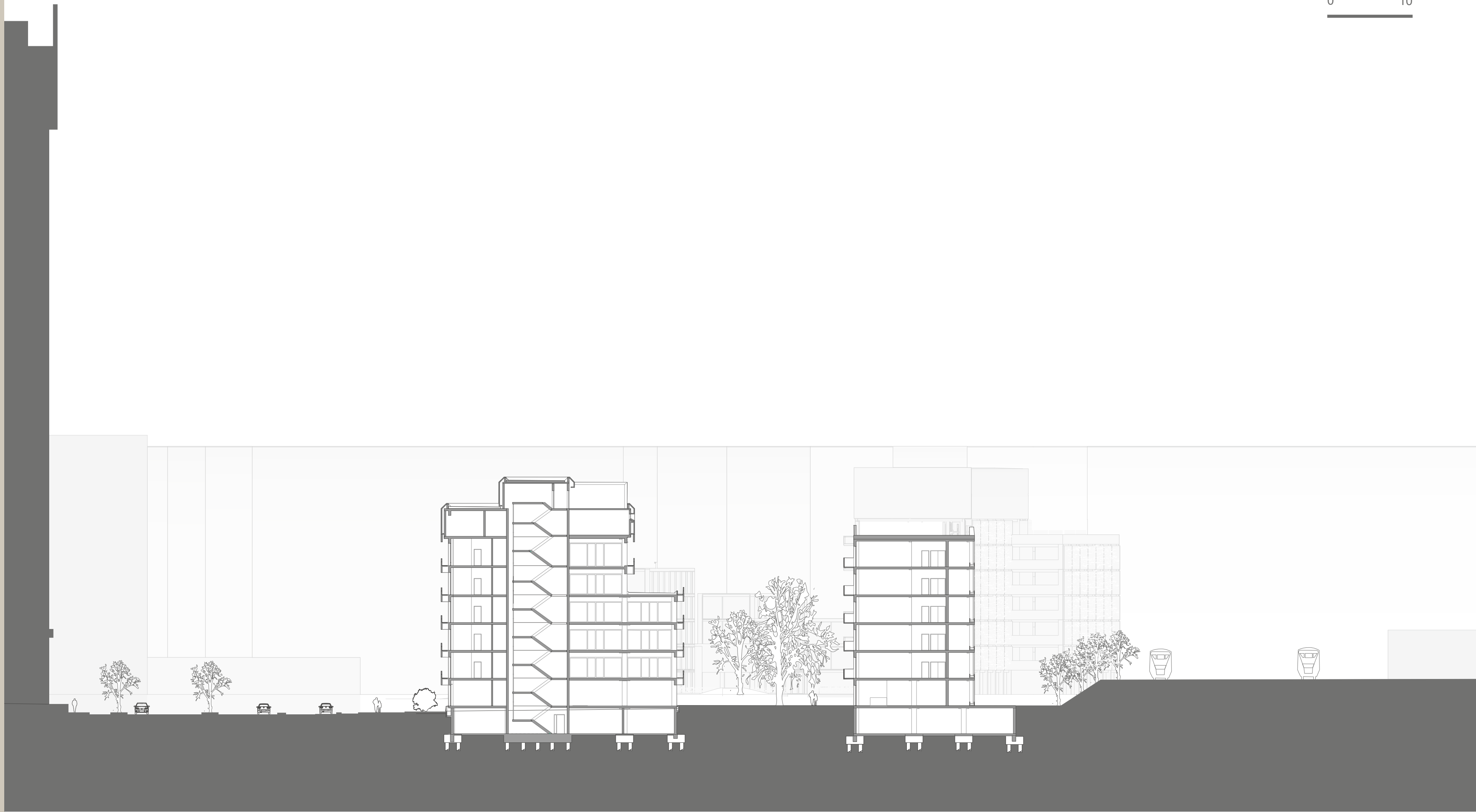
FROM A PALE, CLOSED FACADE TO AN OPEN, INVITING ONE

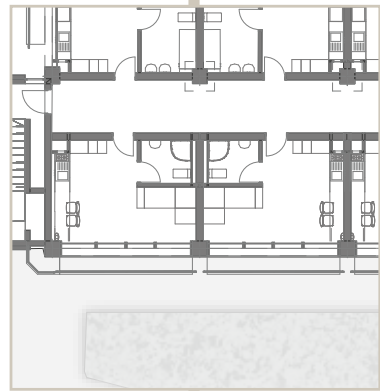


THE CITY IN THE CITY

Guiding Principle



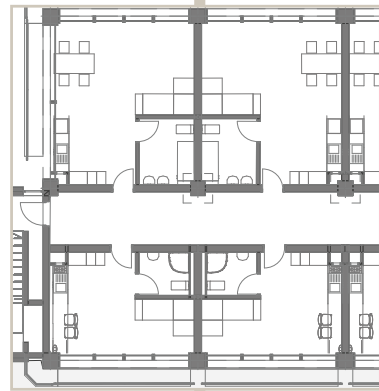




**SINGLE
UNIT**

< 30 qm

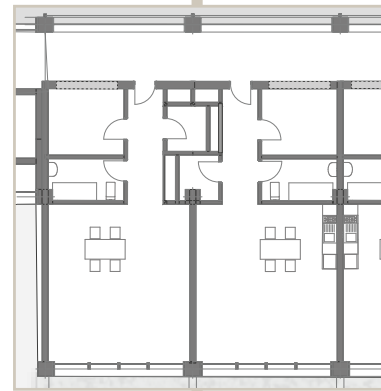
*People in Education
Singles
Non permanent living*



**SINGLE / DOUBLE
UNIT**

< 40 qm

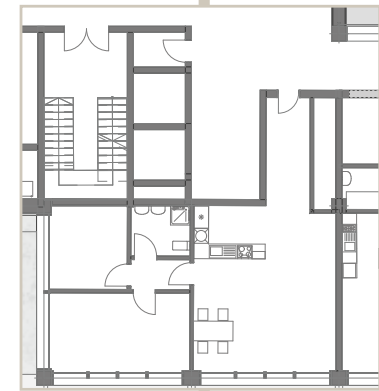
*People in Education
Singles*



**1-3 PERSON
UNIT**

< 60 qm

*Couples in Education
Singles*



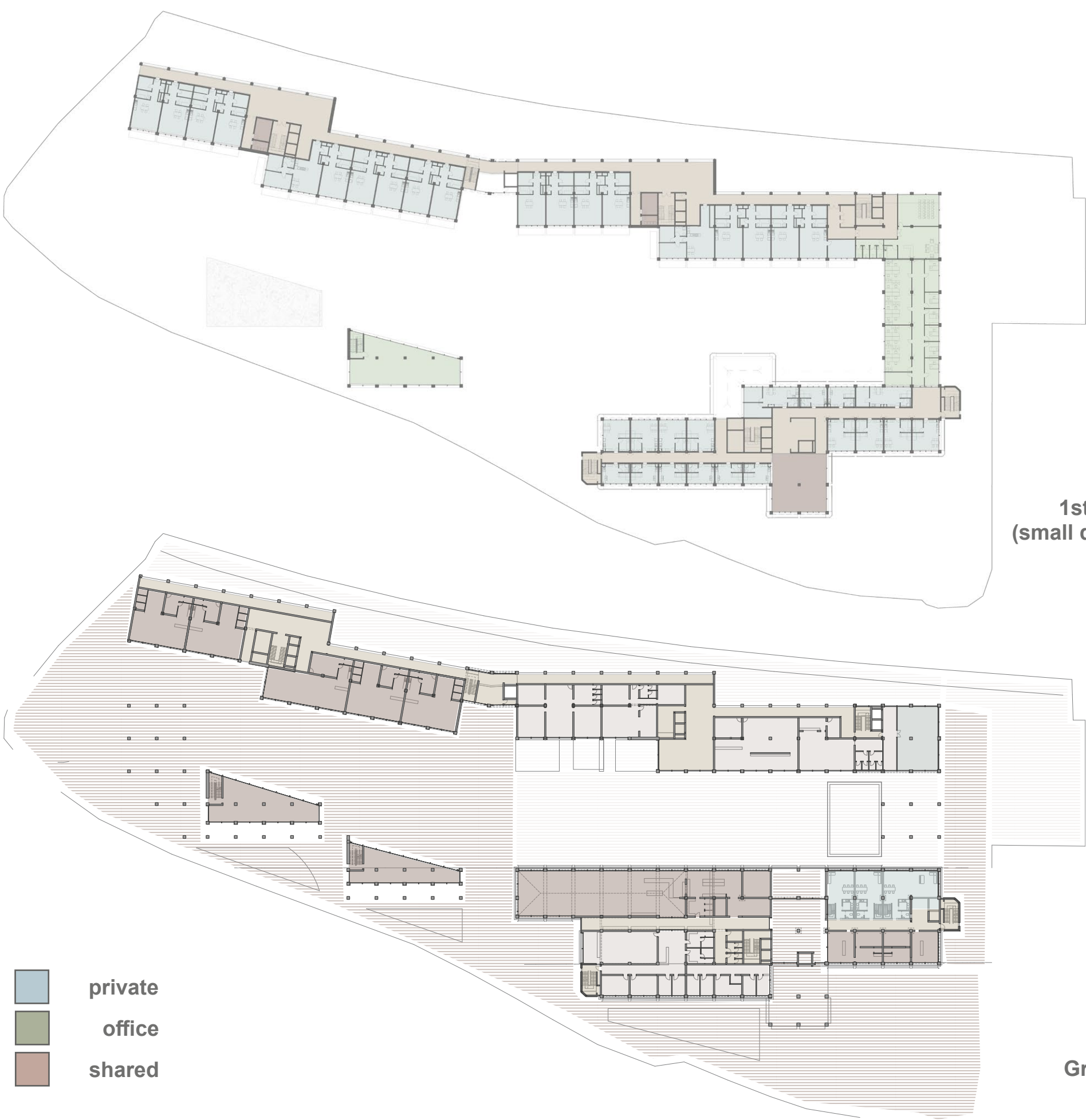
**2-4 PERSON
UNIT**

> 60 qm

*Loft use
Families
Shared living*



- private
- office
- shared



1st - 6th Floor
(small differences)

Ground Floor



9th floor

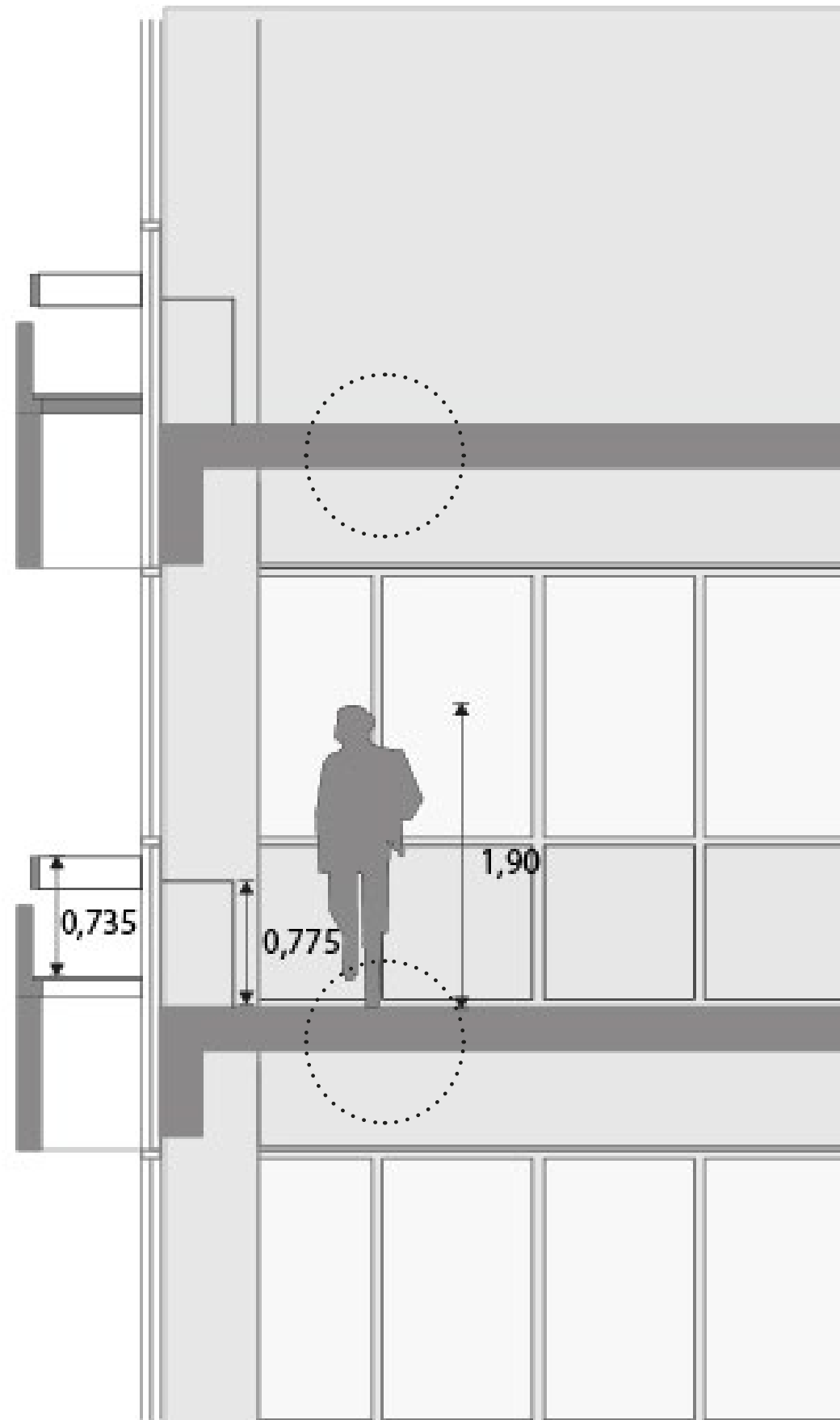
8th floor

7th floor

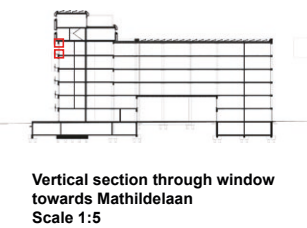
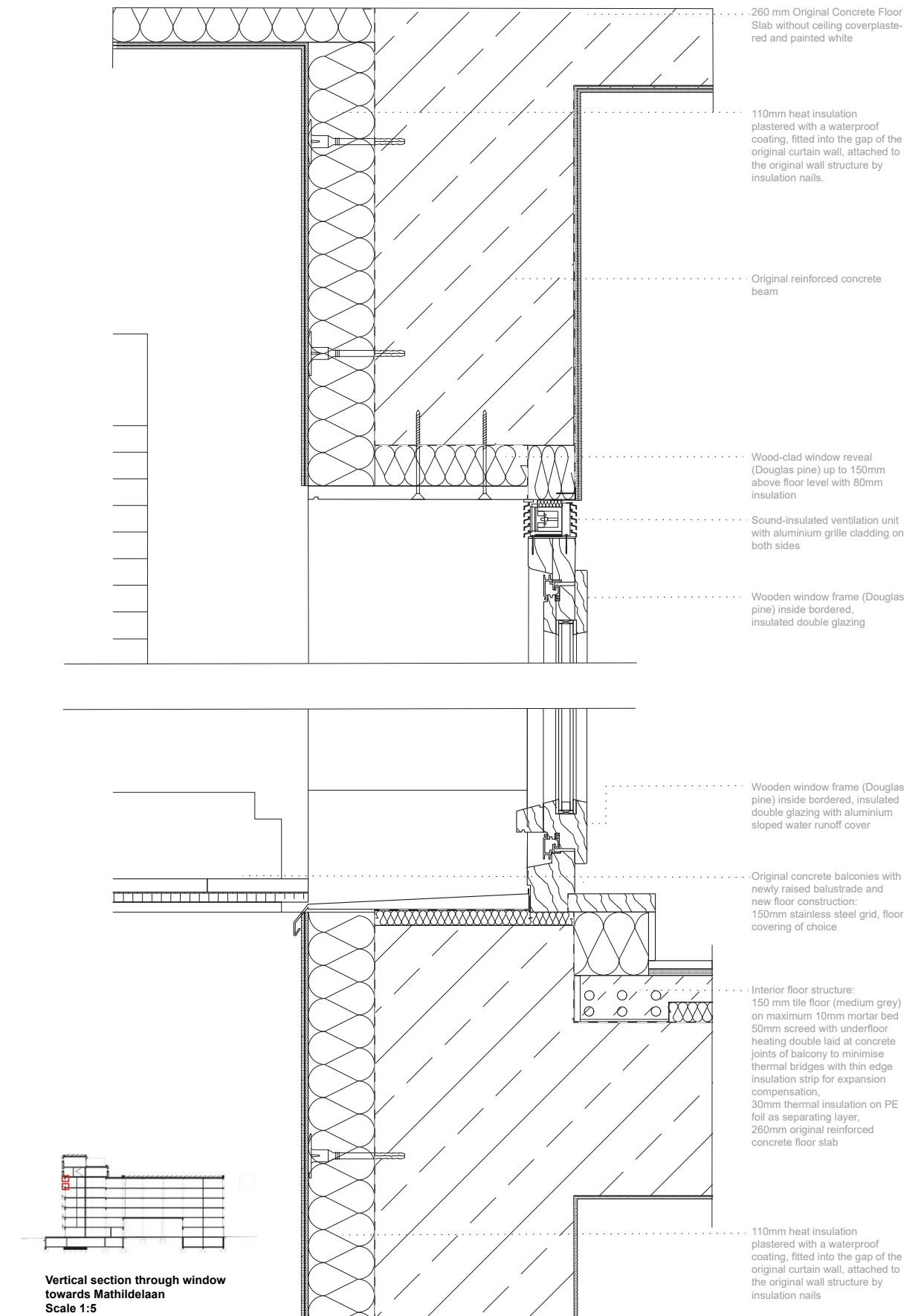
1st - 6th Floor
(small differences)

Ground Floor



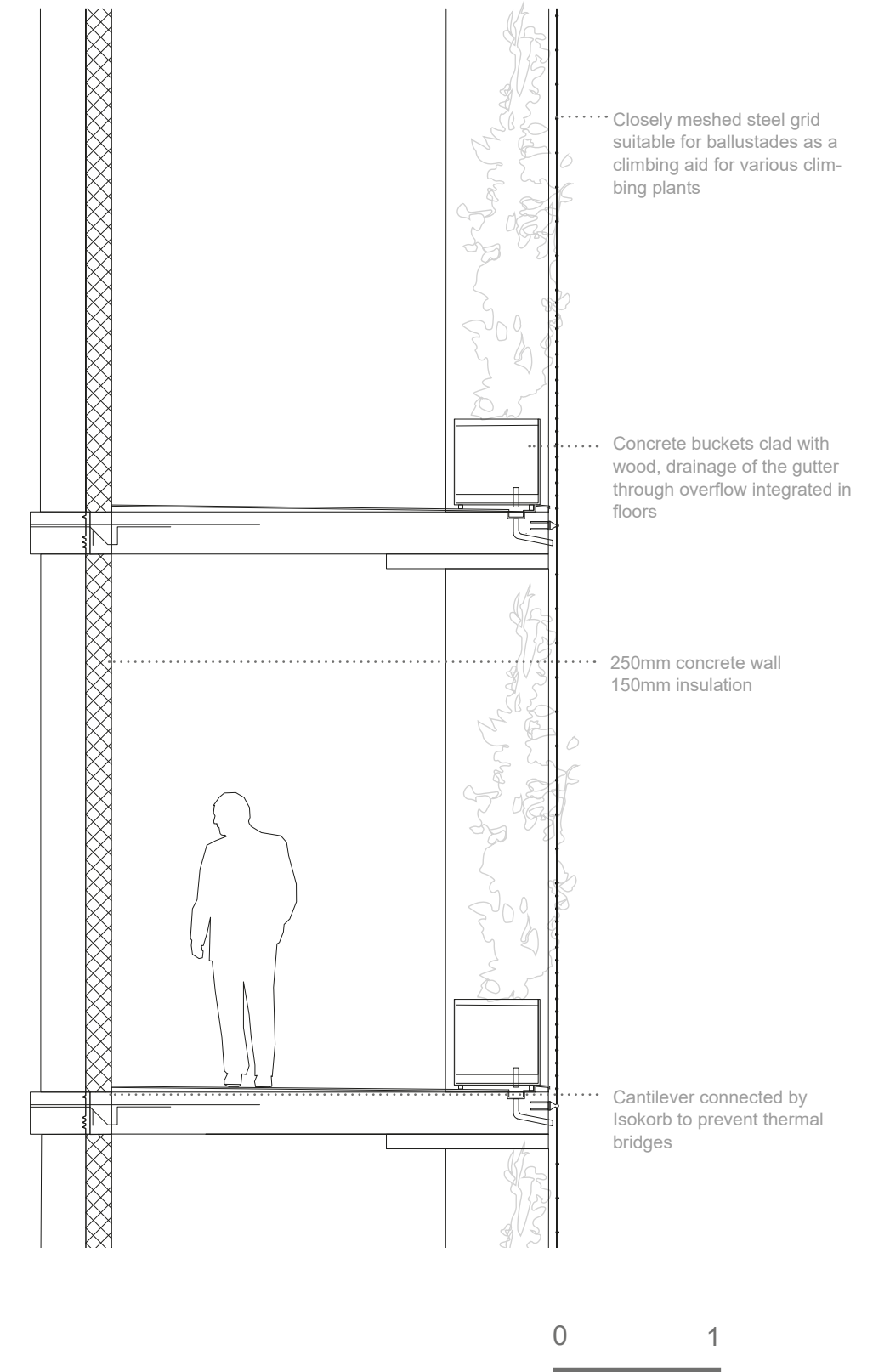


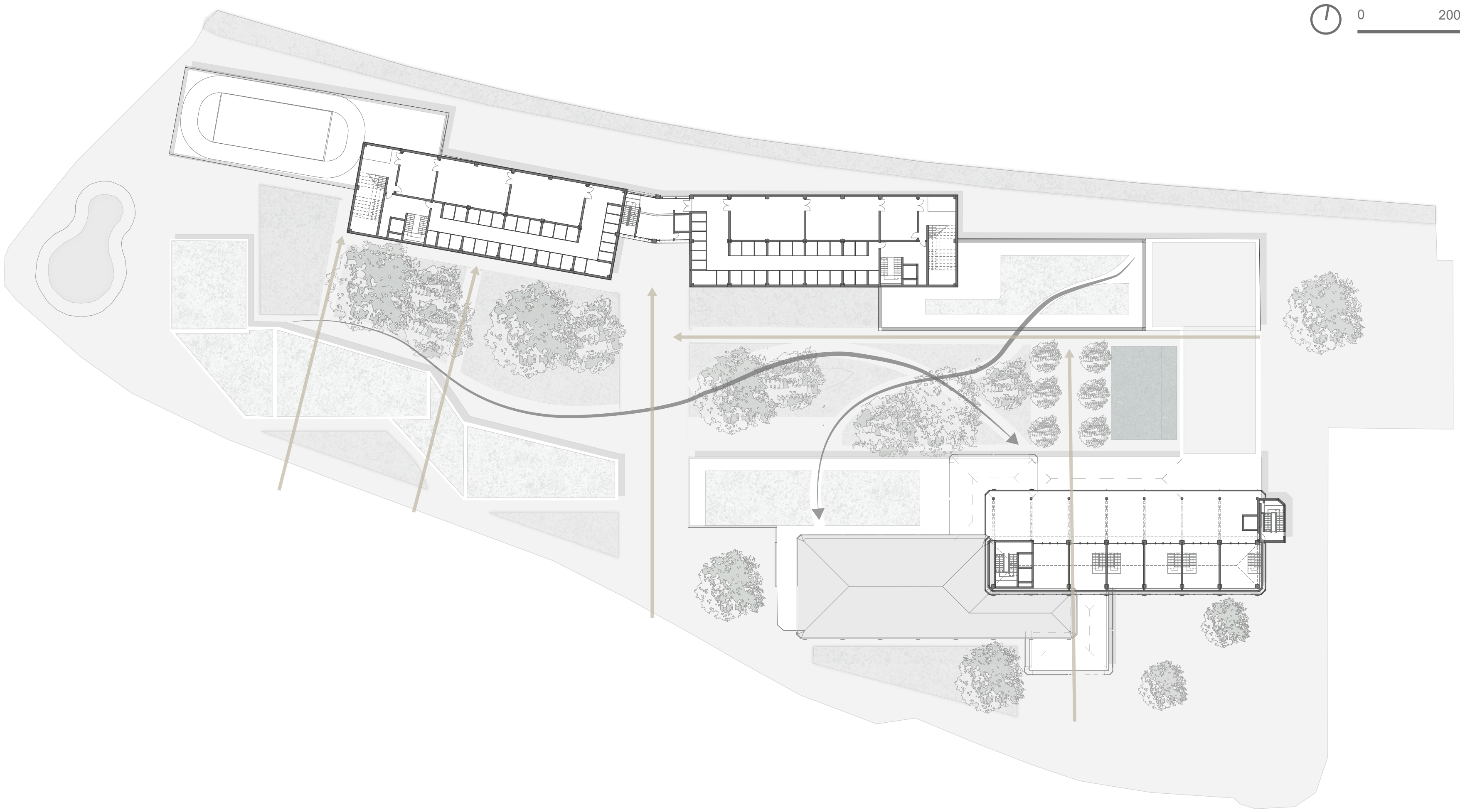
Current Situation



New Situation

0 0.3







RECYCLE AND RECOVER ENERGY:
MINIMIZE CONCRETE, REPLACE WITH WOOD AND CLEY,
GREENERY, SUSTAINABLE ENEGY SUPPLY

REUSE:
REMOVED PARTS OF THE BUILDING REUSED E.G. IN
INTERVENTION IN GRONINGEN (AISTE)

REDUCE:
CO2 EMMISIONS THROUGH DISPOSAL AND BUILDING
NEW



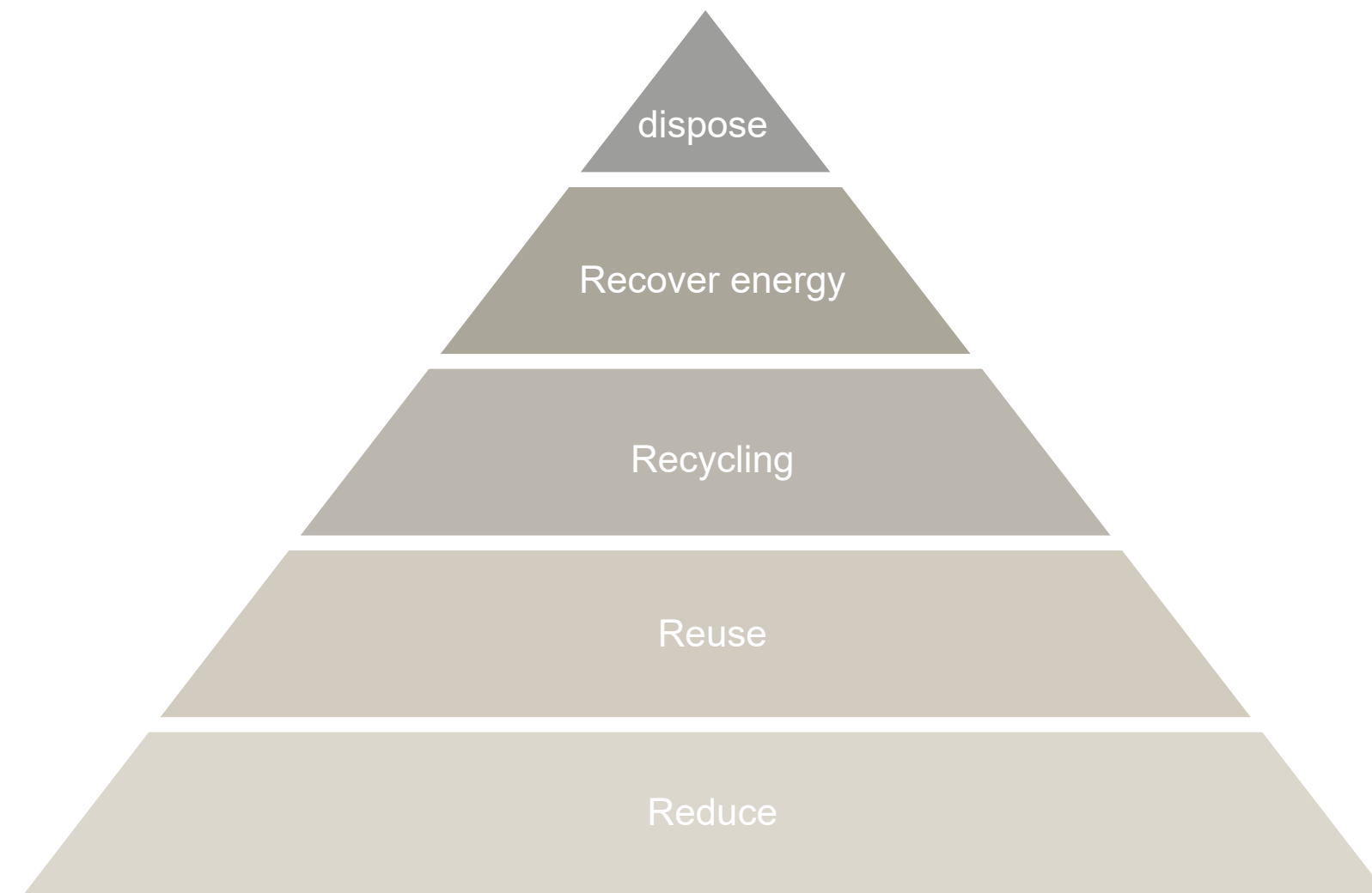
> 435

Flights from Schipol to New York JFK



> 750

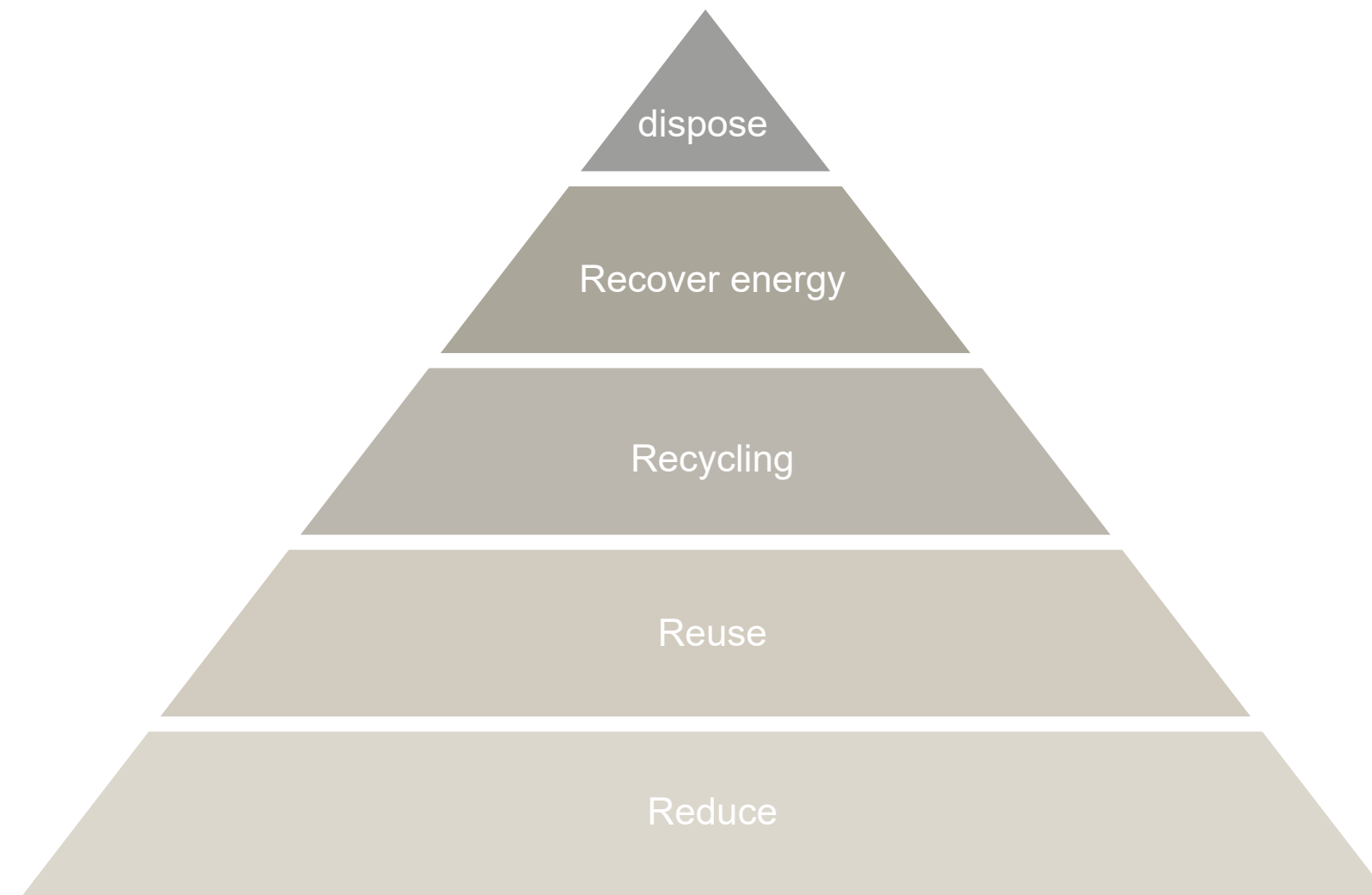
Cars driving for a year (12.000km)



RECYCLE AND RECOVER ENERGY:
MINIMIZE CONCRETE, REPLACE WITH WOOD AND CLEY,
GREENERY, SUSTAINABLE ENEGY SUPPLY

REUSE:
REMOVED PARTS OF THE BUILDING REUSED E.G. IN
INTERVENTION IN GRONINGEN (AISTE)

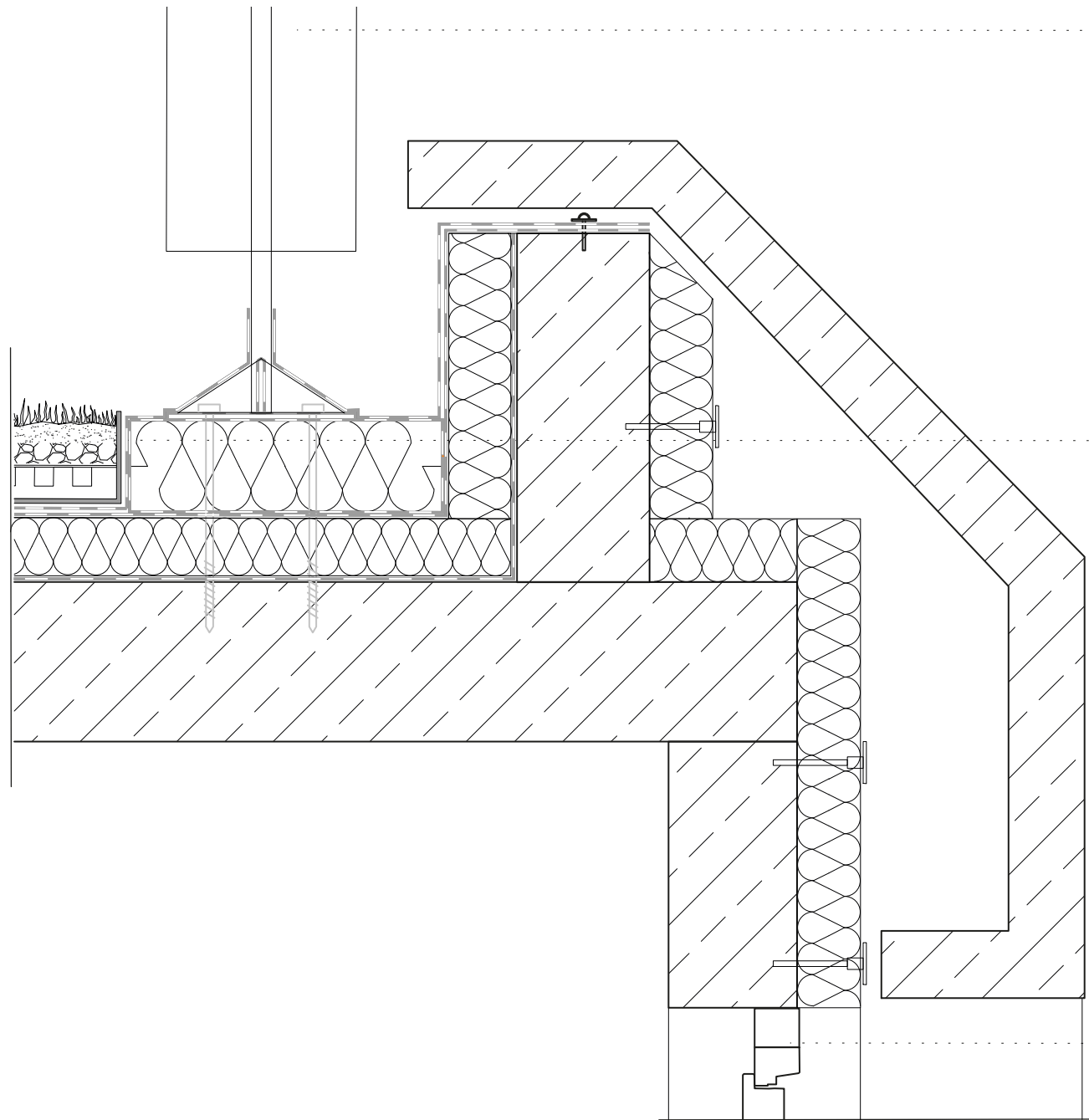
REDUCE:
CO2 EMMISIONS THROUGH DISPOSAL AND BUILDING
NEW



RECYCLE AND RECOVER ENERGY:
MINIMIZE CONCRETE, REPLACE WITH WOOD AND CLAY,
GREENERY, SUSTAINABLE ENERGY SUPPLY

REUSE:
REMOVED PARTS OF THE BUILDING REUSED E.G. IN
INTERVENTION IN GRONINGEN (AISTE)

REDUCE:
CO2 EMISSIONS THROUGH DISPOSAL AND BUILDING
NEW



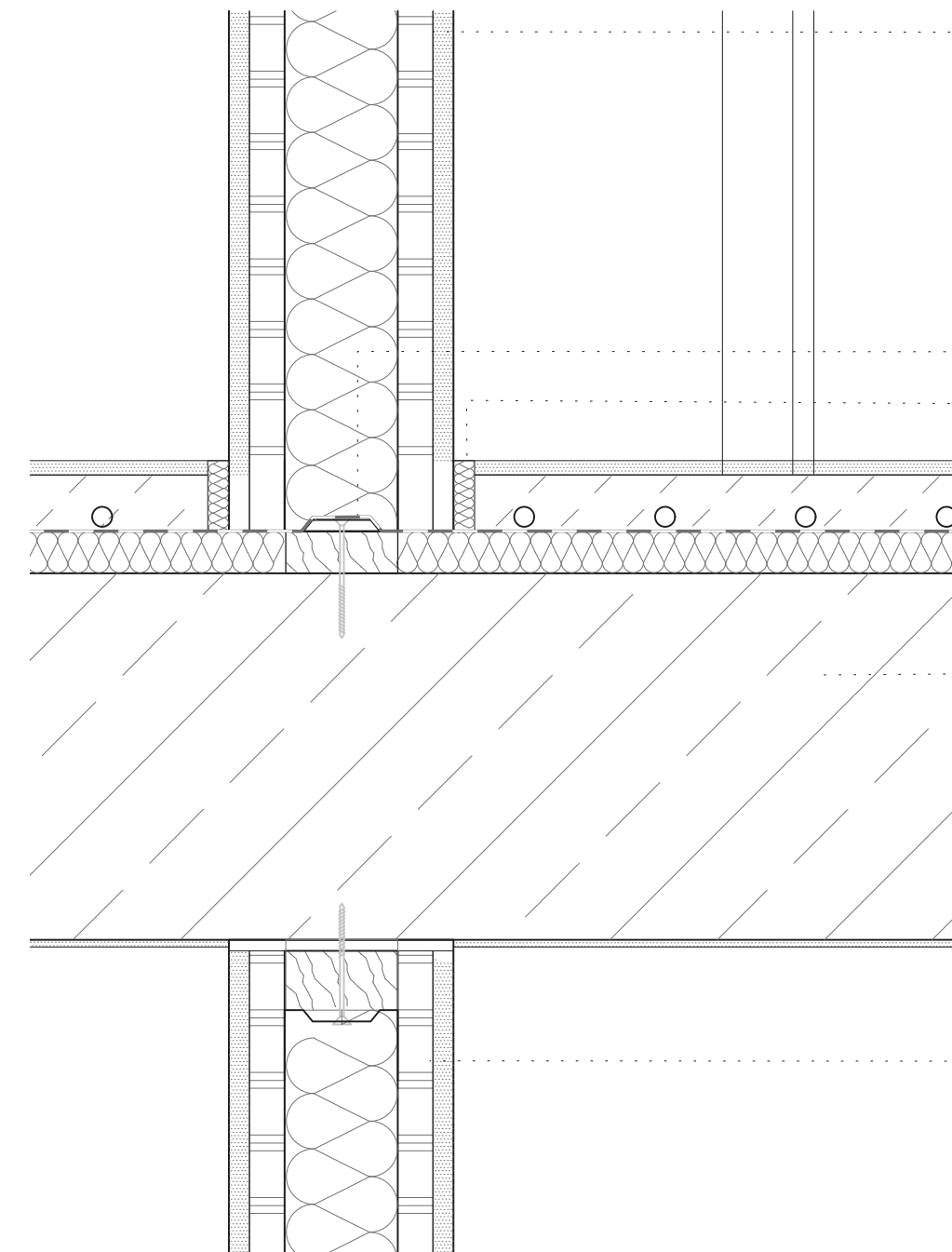
Wooden pergola:

Raised fastening to prevent water from collecting at the piercing of the screws
12mm x 240mm galvanised steel screws
Steel post support additionally waterproofed, wooden column 300mm x 300mm

Structure of green roof:

Grass and flat or shallow-rooted planting.
70mm vegetation layer of soil and gravel
50mm protection, drainage and filter layer
Plastic sealing membrane root resistant
min. 110mm sloped thermal insulation vapour barrier
260mm original floor slab

Wooden double glazed window frames with sound-insulated ventilation unit



Partition walls with 56dB sound insulation performance::

60mm x 80mm Wooden studs
Filling: Jute insulation 16mm LEMIX clay building boards planked on both sides.
Clay plaster and paint to maintain the temperature and moisture balancing qualities

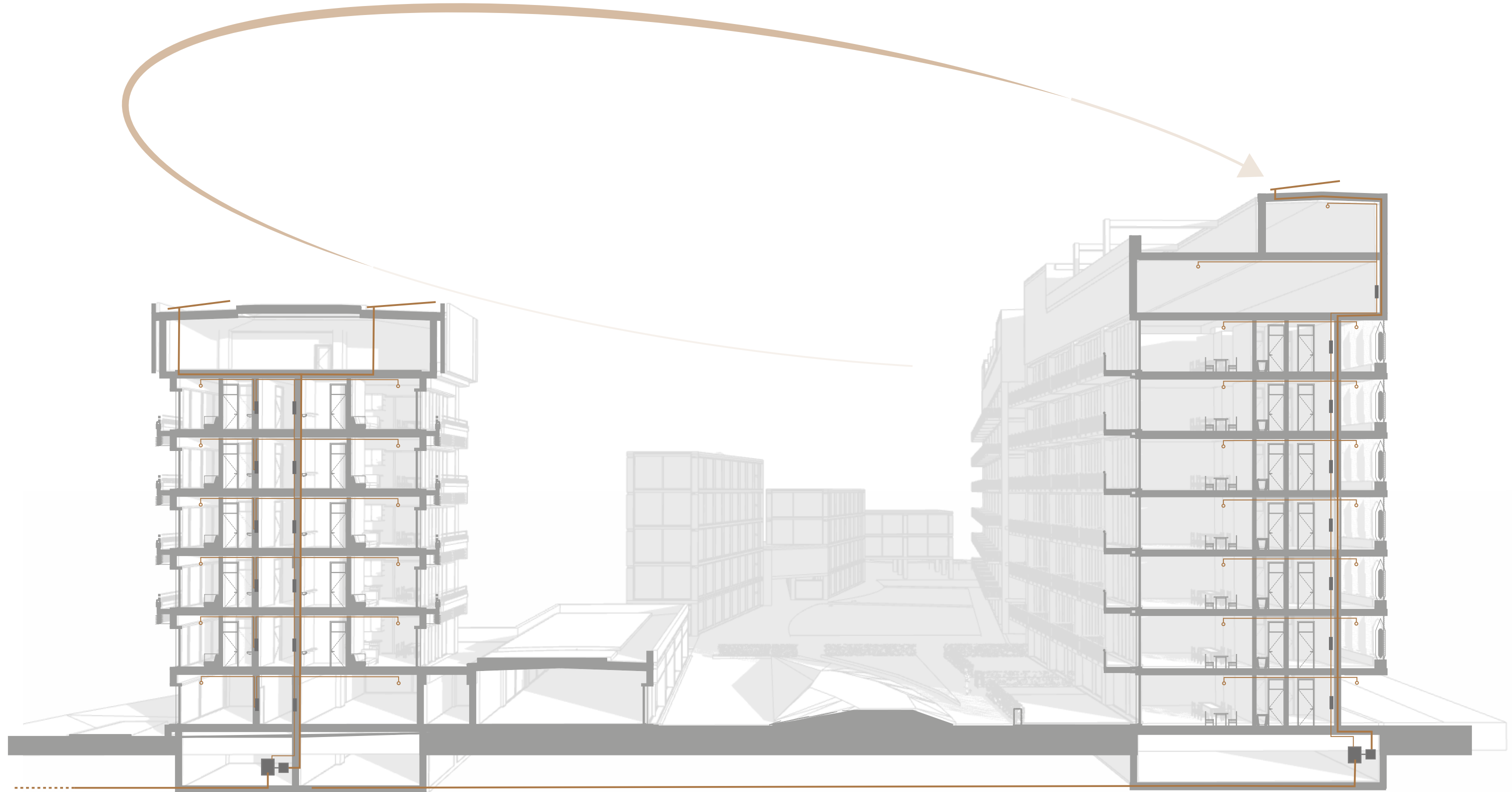
Wall-Mount

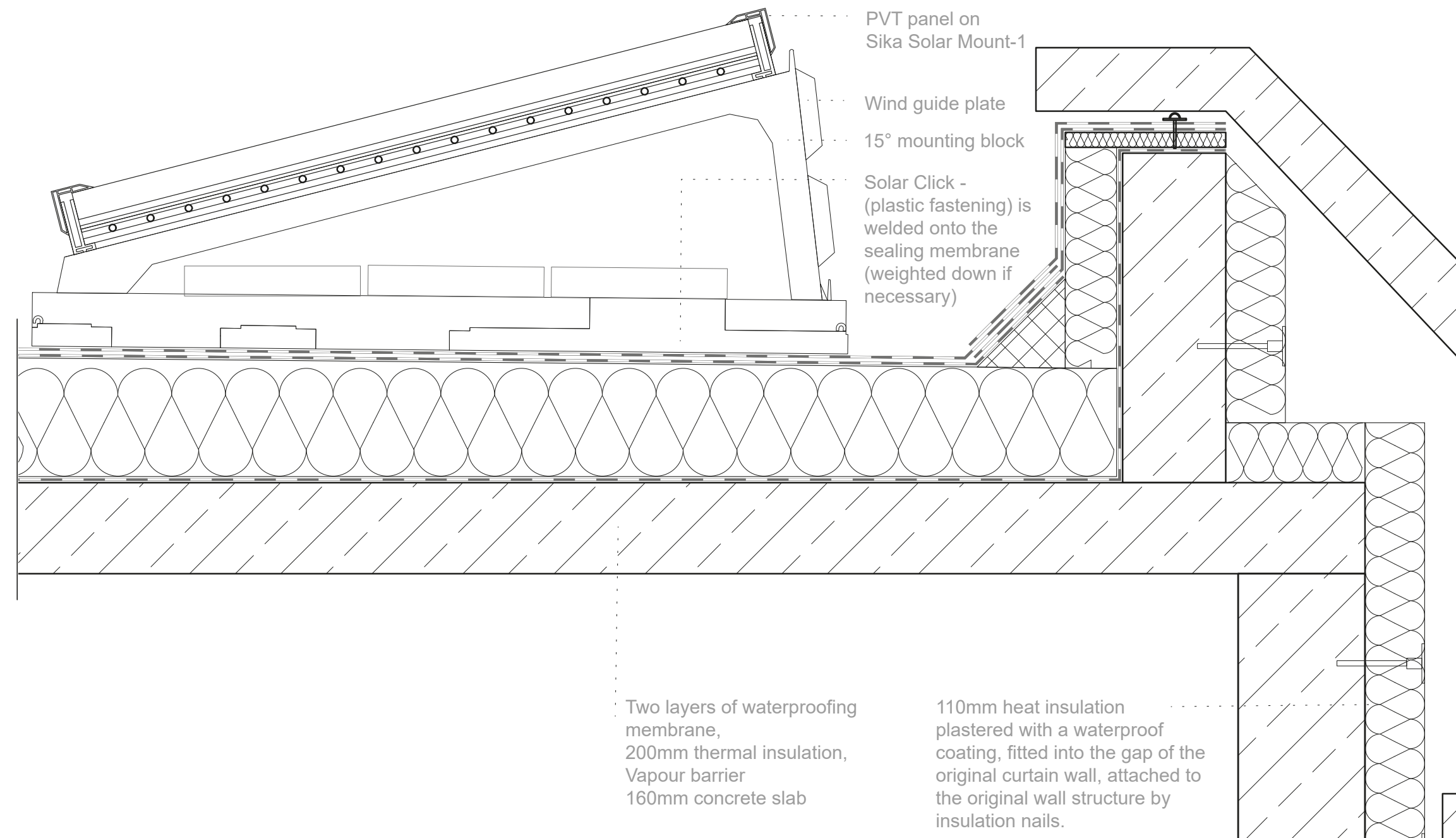
Expansion insulation

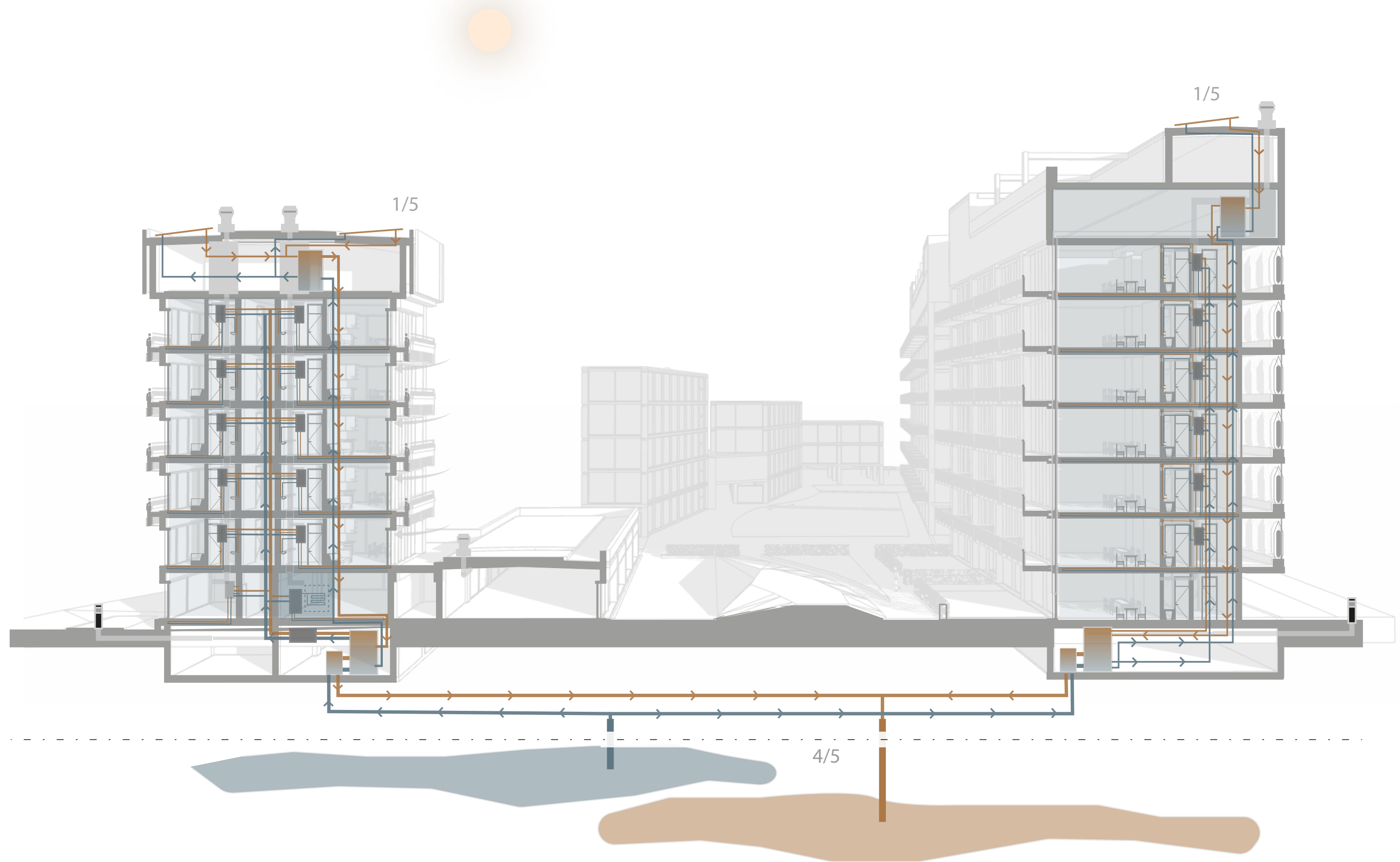
Floor:

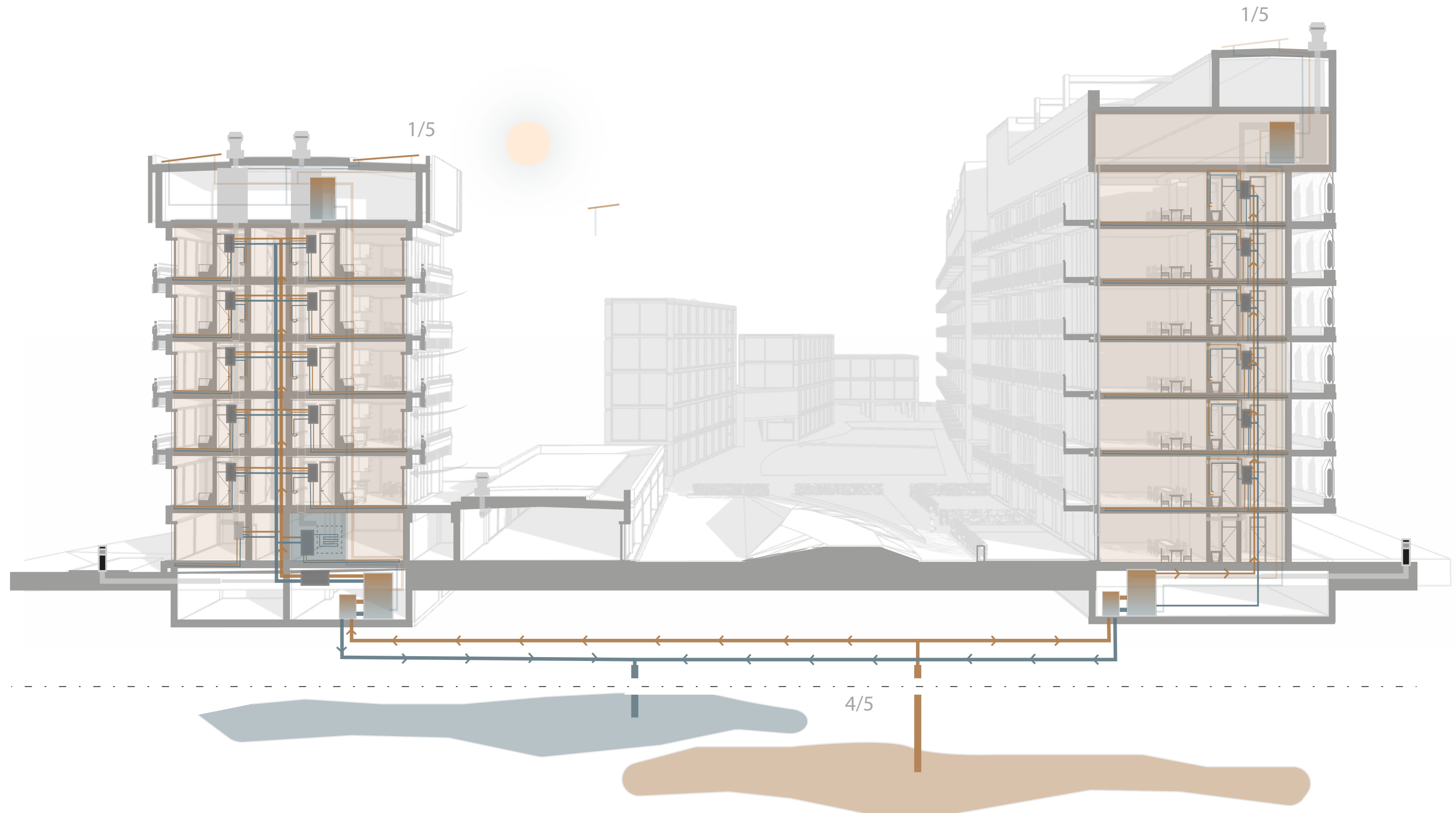
150 mm tile floor (medium grey) on maximum 10mm mortar bed
50mm screed with underfloor heating
30mm thermal insulation on PE foil as separating layer,
260mm original reinforced concrete floor slab

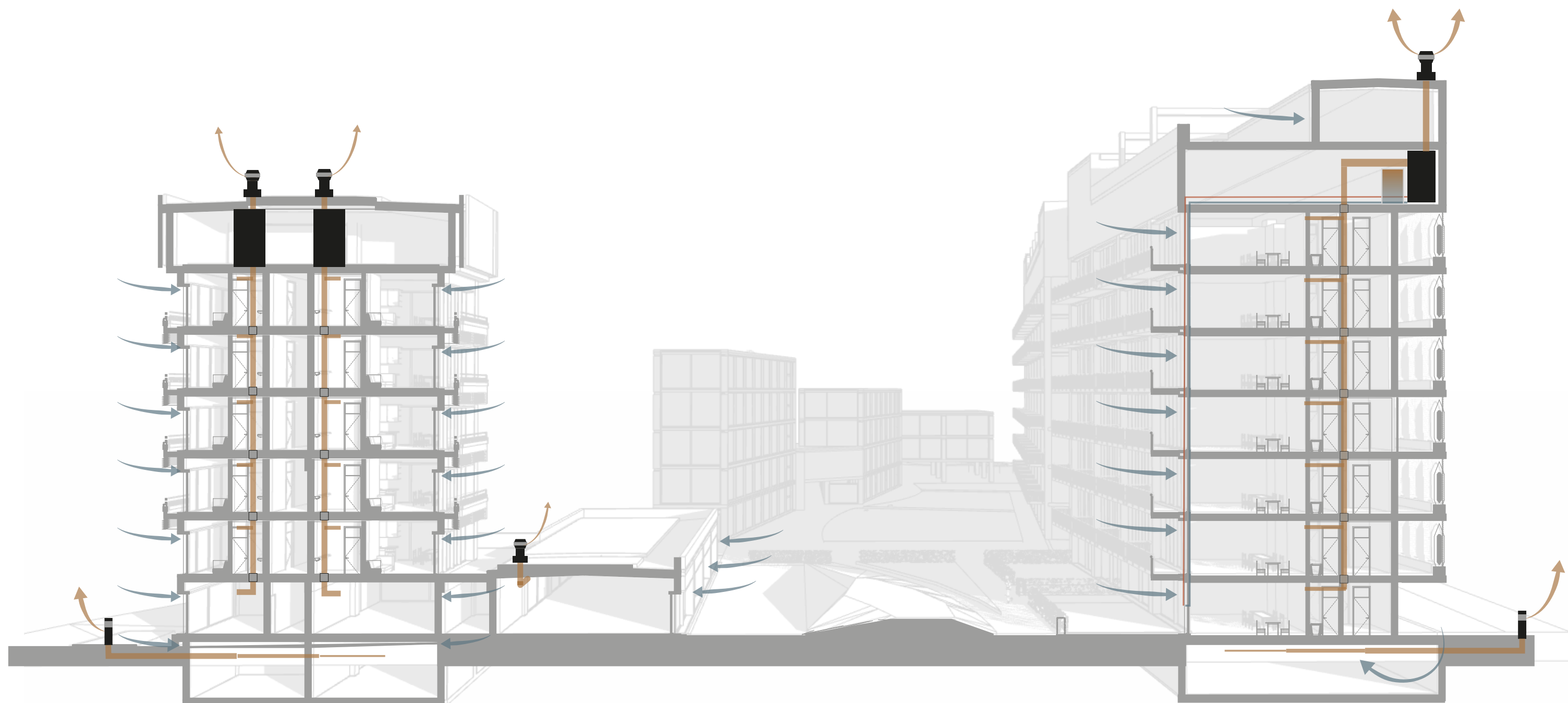
Partition walls (see above)

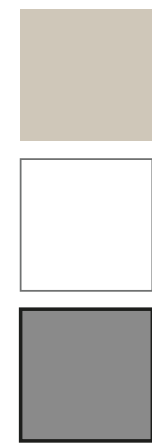
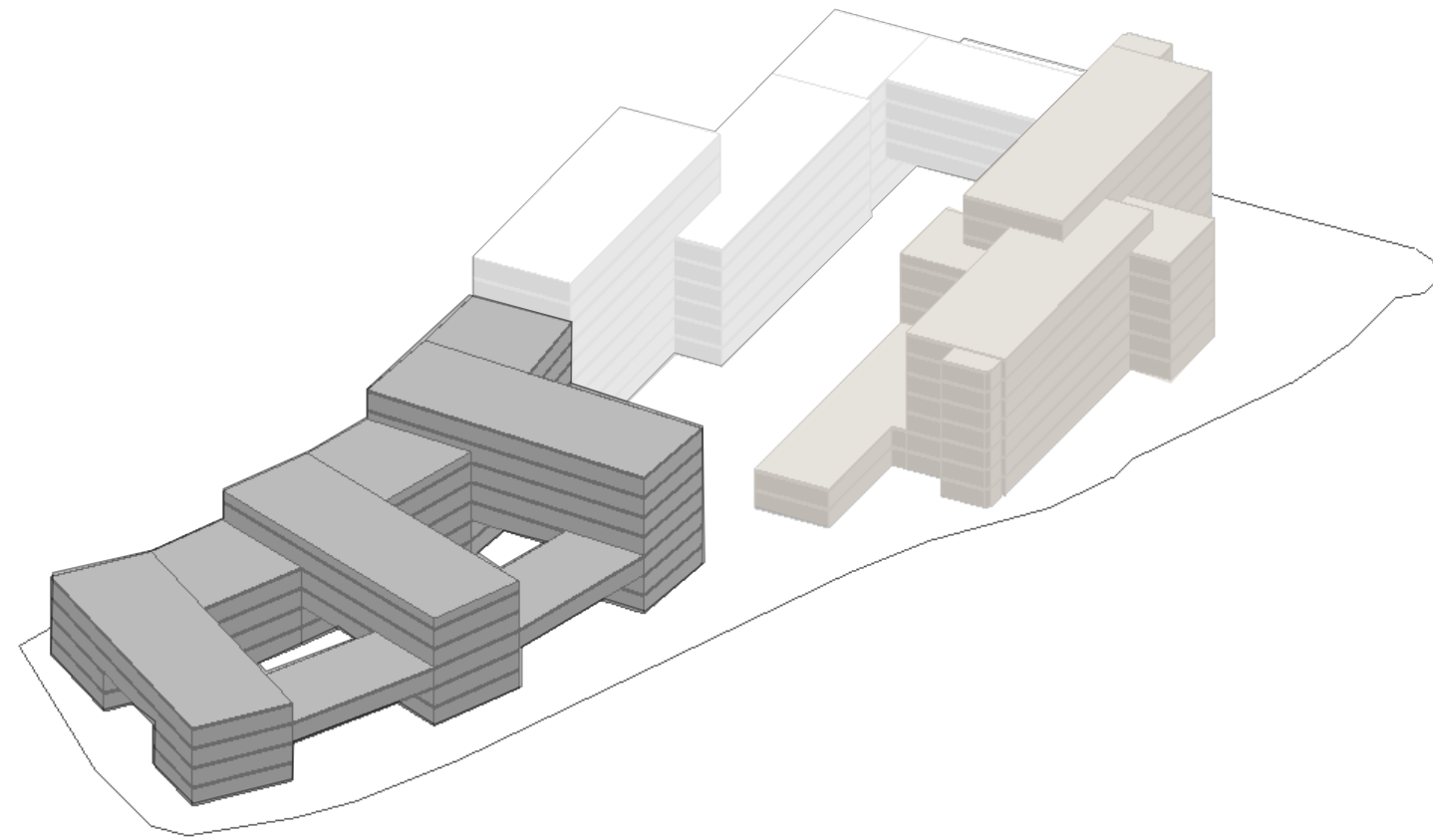








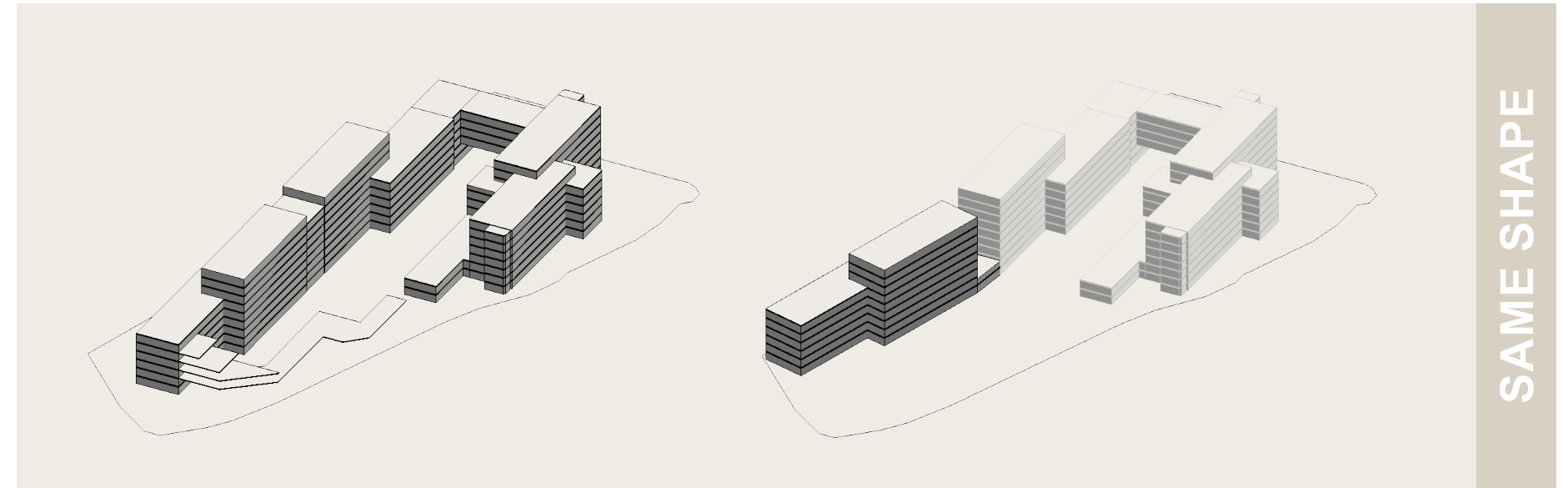




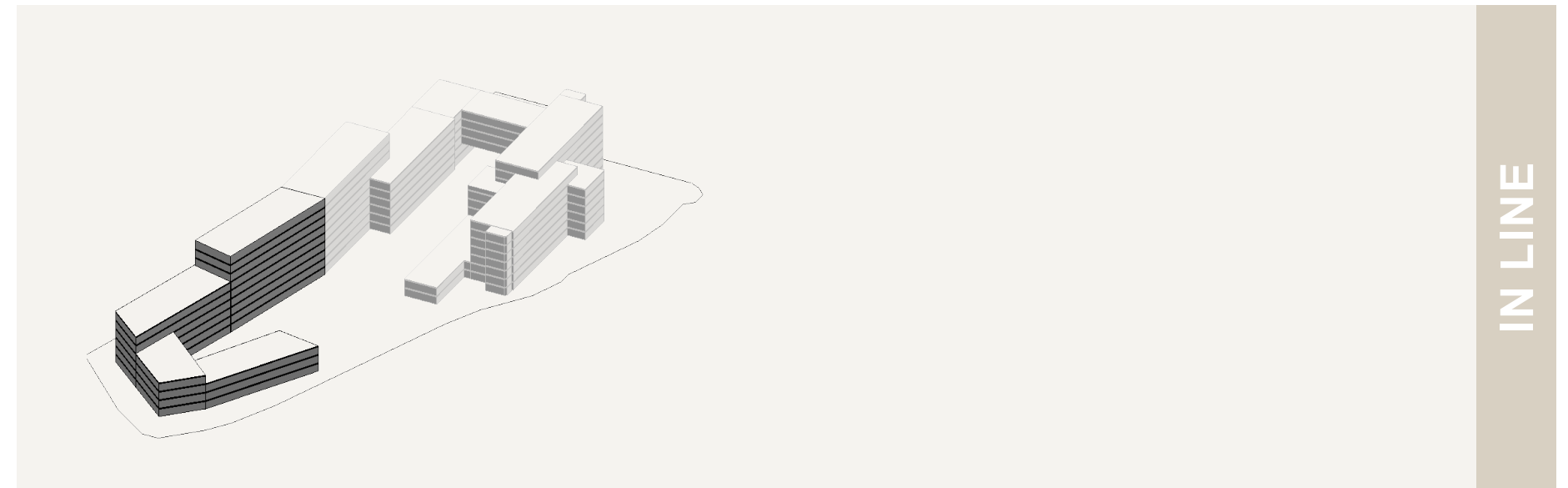
1ST PHASE - *Re-use of the police building*

2ND PHASE - *First addition (Social GF)*

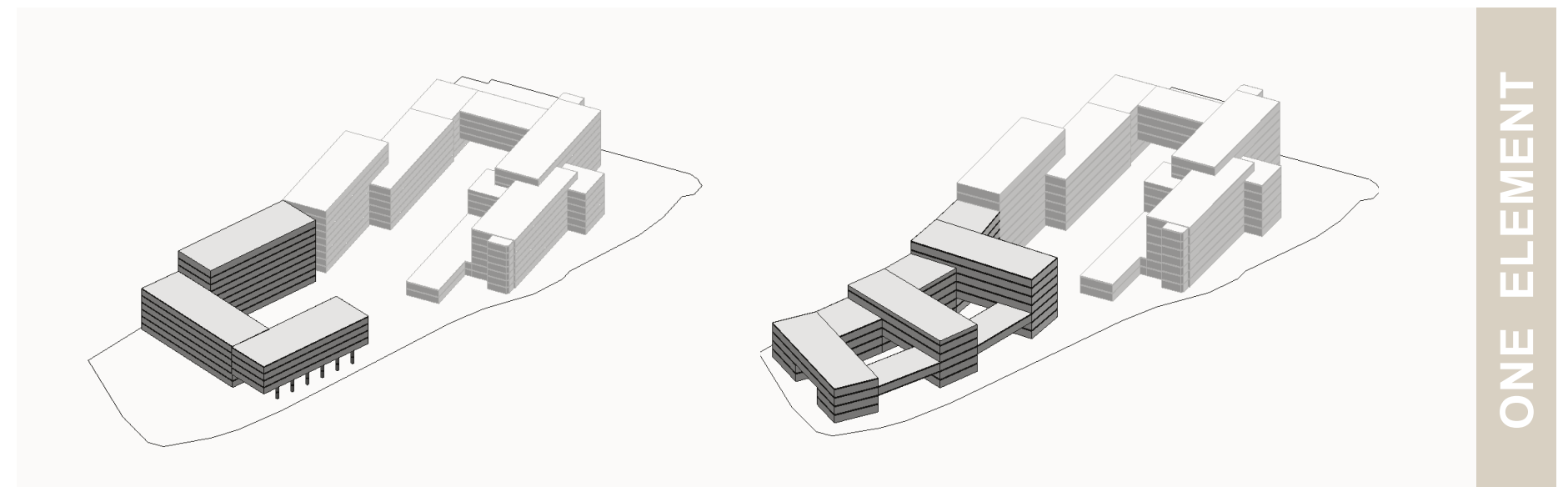
3RD PHASE - *Second addition (Commercial GF)*



SAME SHAPE



IN LINE



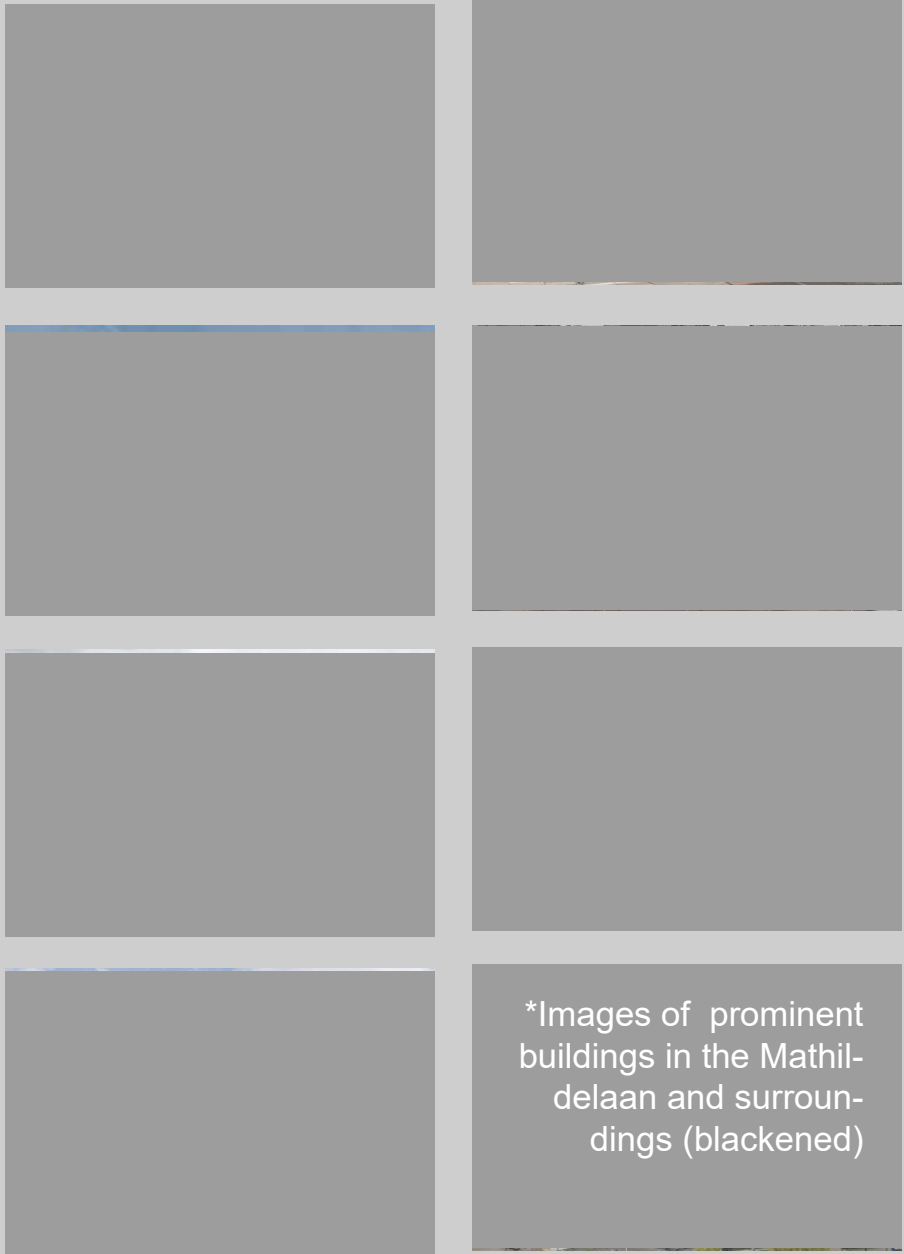
ONE ELEMENT



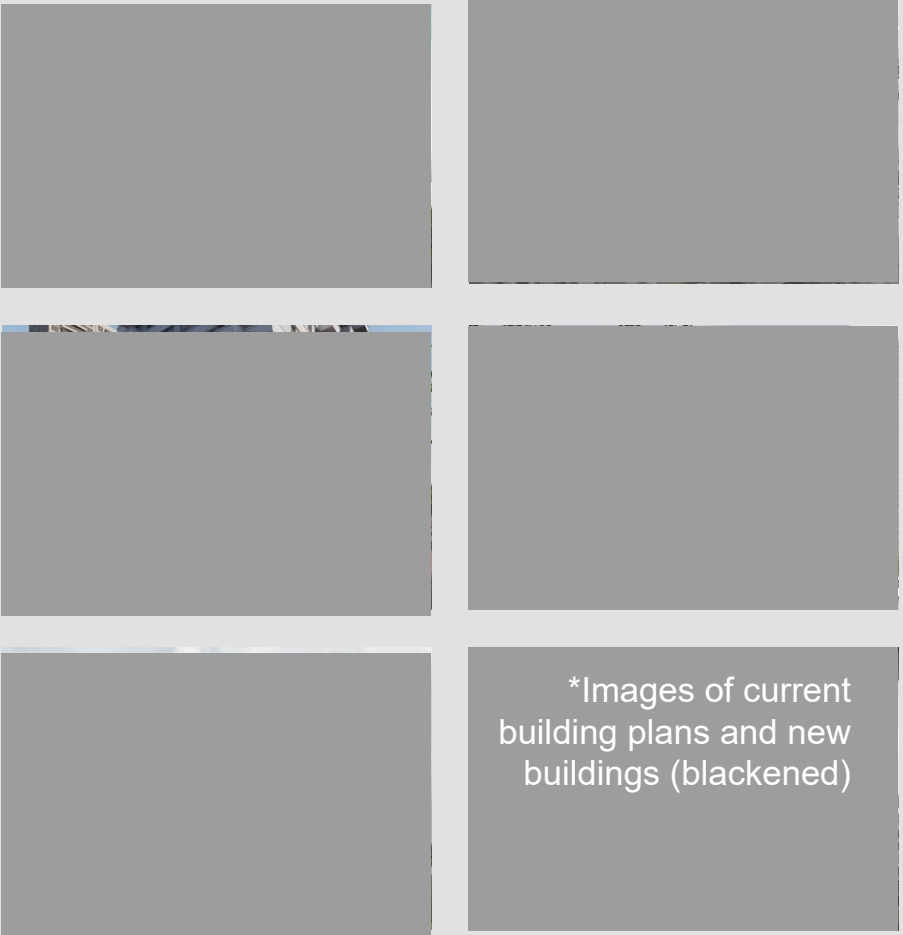
EASTERN HALF COURTYARD



PAST /
STATUS QUO



NEW BUILT /
FUTURE PLANS

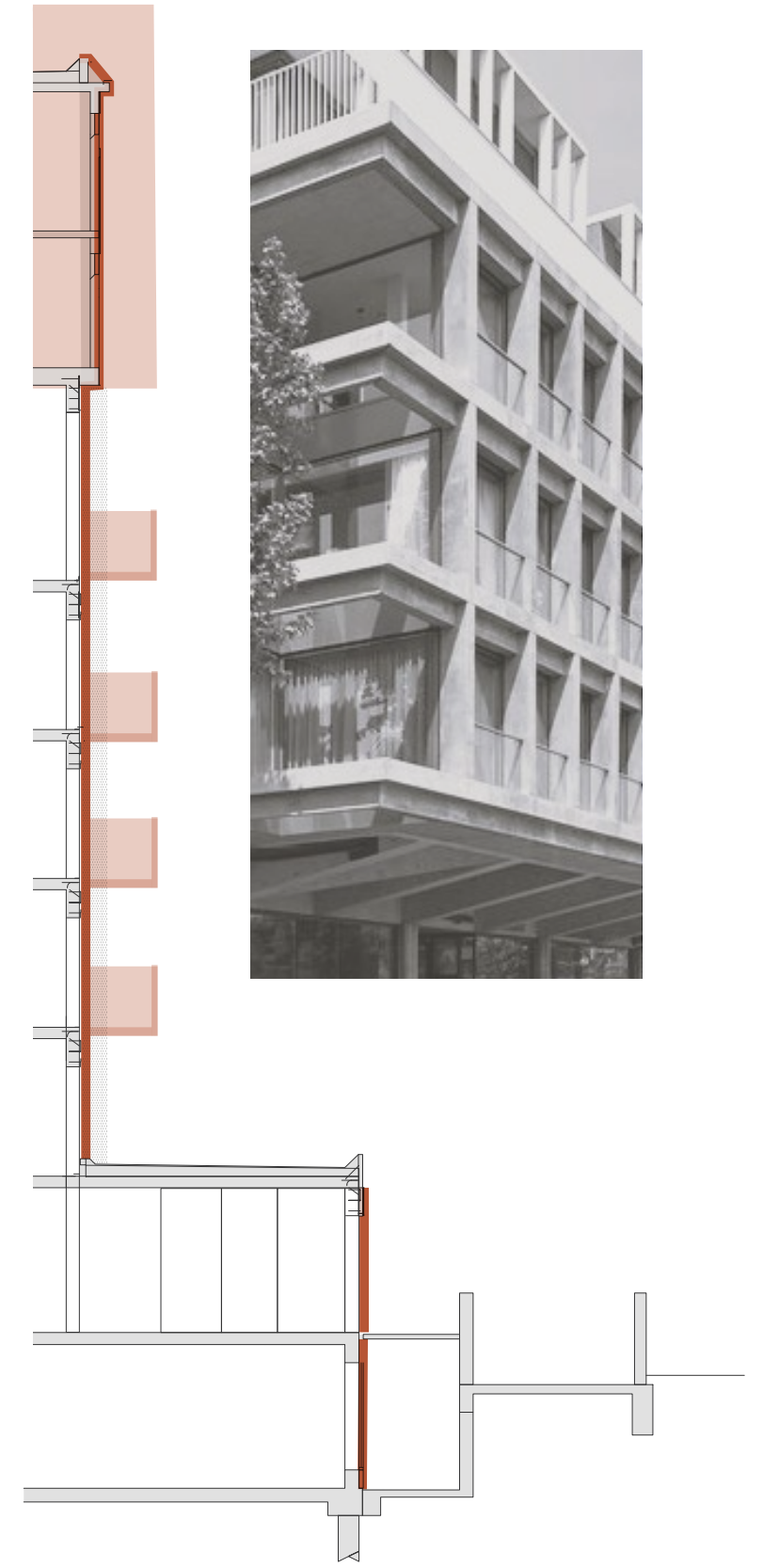
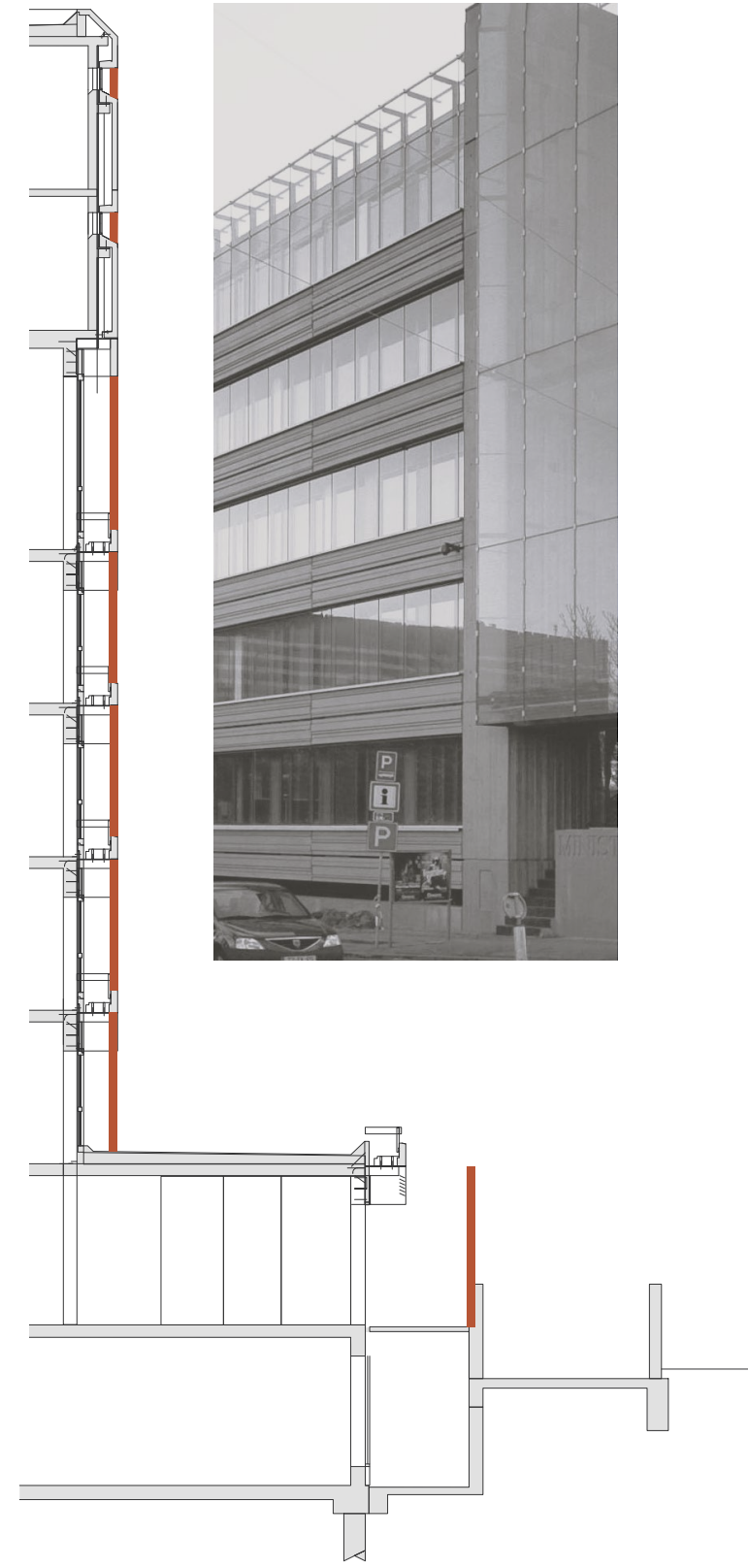
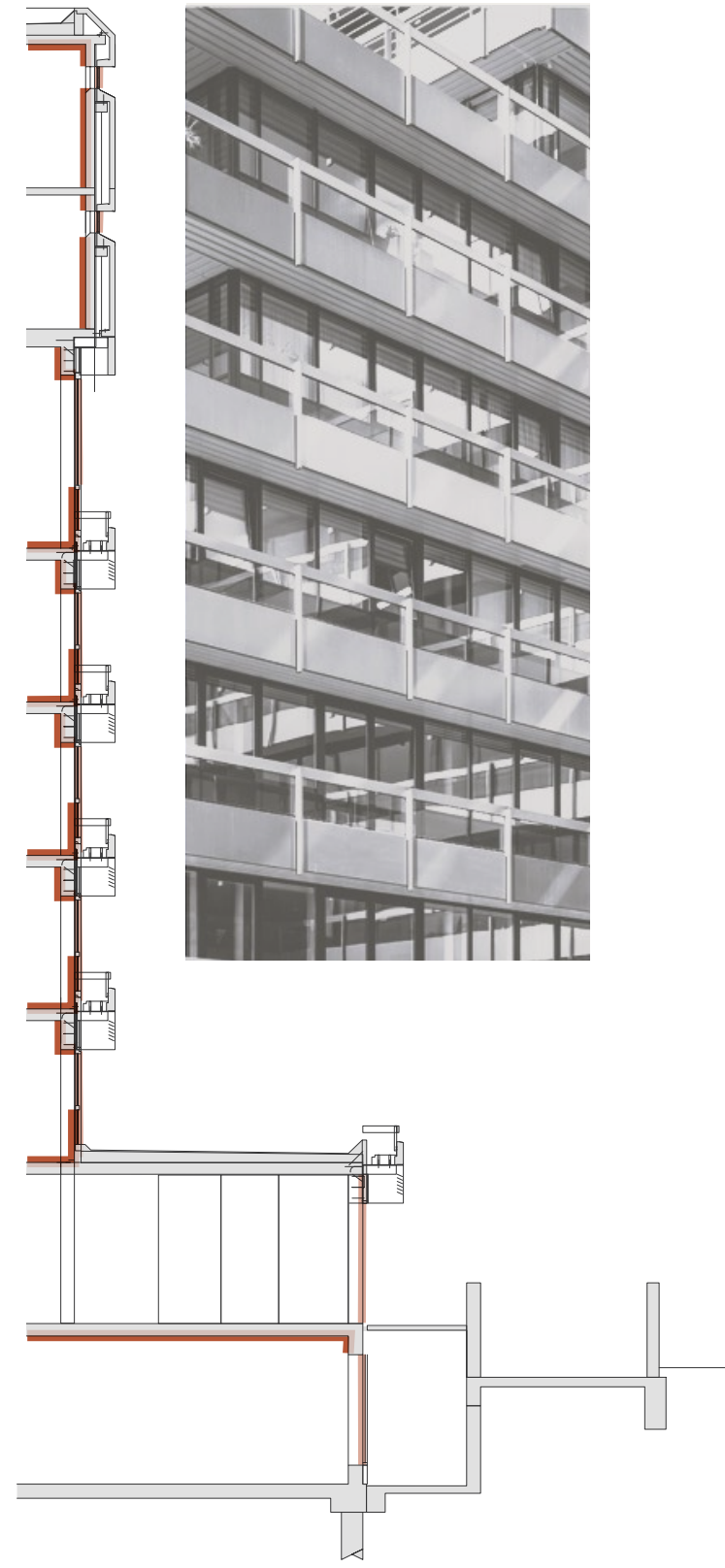
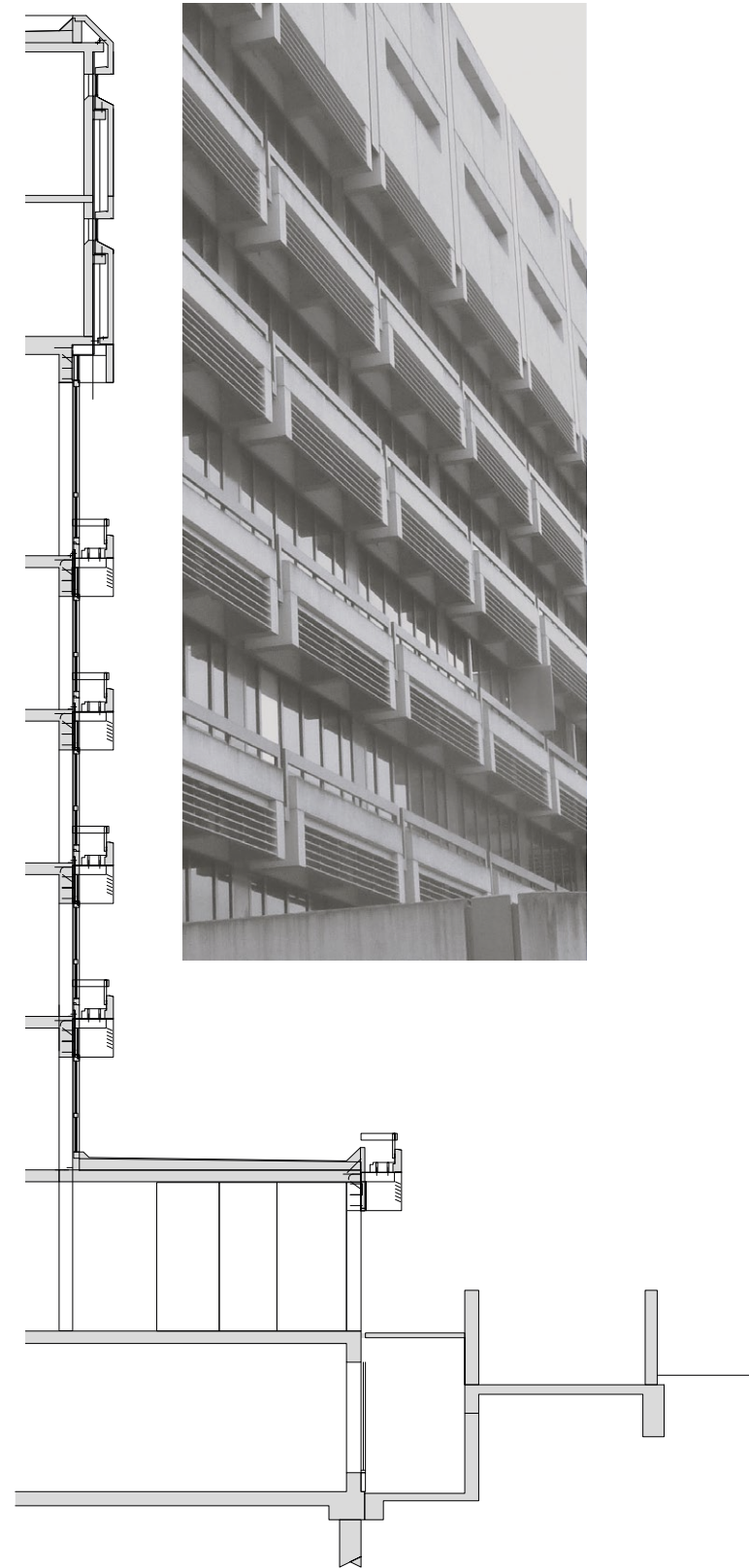


Sources:
(1) Eindhoven Centraal: <https://nieuws.ns.nl/live-radio-vanuit-de-radio-eindhoven-centraal/>
(2) De Blob and Witte Dame: <https://www.amrathoteleindhoven.nl/de/galerie>
(3) Victoria Park: <https://holland2stay.com/parking-150-victoria.html>
(4) PSV Stadium: <https://www.hendriks-graszoden.nl/referenties/philips-stadion-psv-eindhoven>
(5) Strijp S: <https://www.peutz.nl/projecten/strijp-s-de-creatieve-stad-eindhoven>
(6) <https://brainporteindhoven.com/en/discover/the-power/campuses/strijp-st>
(7) Bijenkorf: <https://indebuurt.nl/eindhoven/gids/bijenkorf-eindhoven/>
(8) Onyxtower: <https://architectenweb.nl/projecten/project.aspx?ID=40370>

ESSENCE:

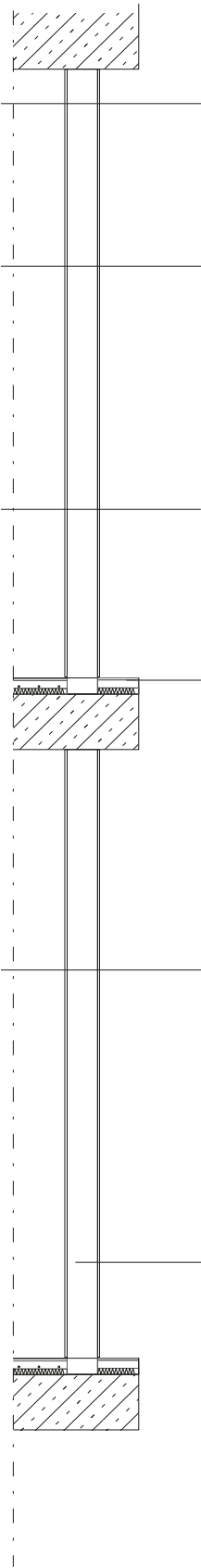
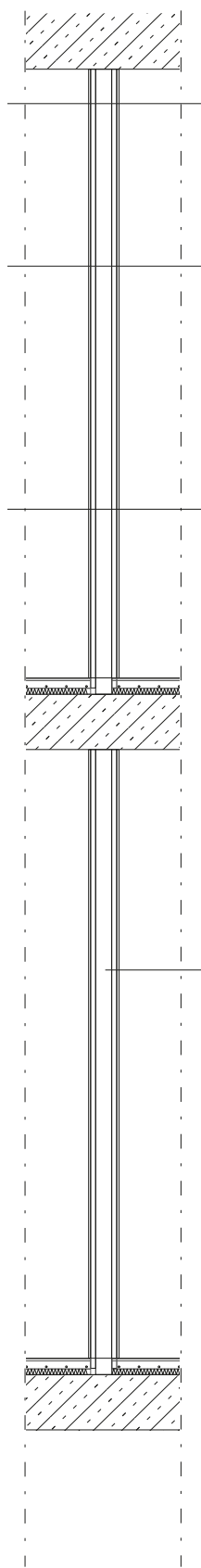
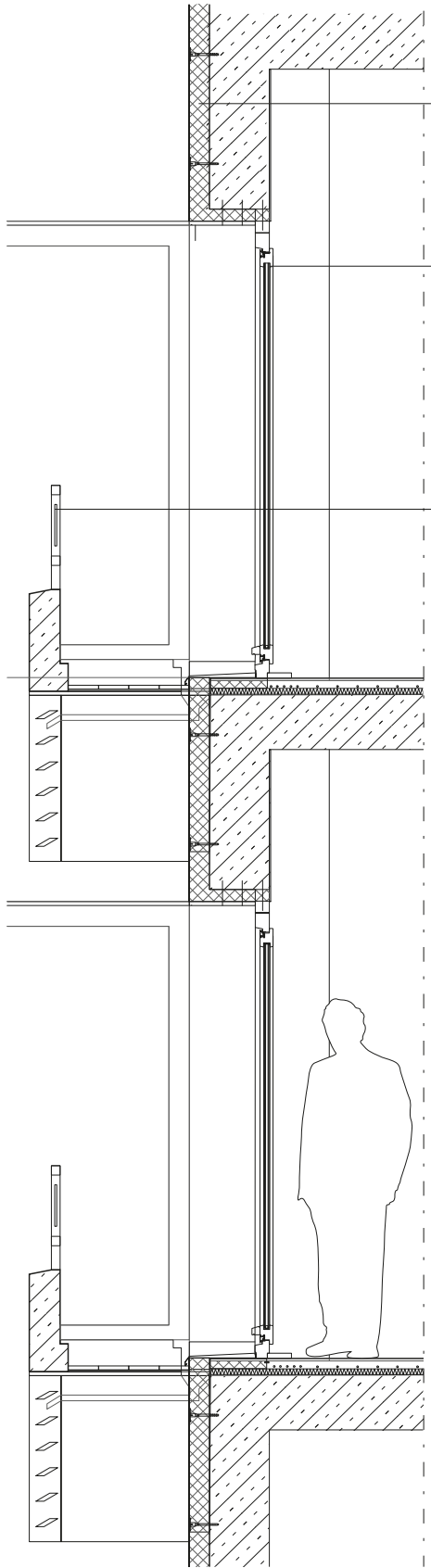
INHERITED
AUTHENTICITY
+
URBAN
DEVELOPMENT





Sources:

1. Police Station Mathildelaan: Lucca Fischer (own image)
2. Estel Residence, Norbert van Onna (n.d.), <https://www.teakebouma.nl/>
3. Ministry of Finance, Imre Csany (2013), CC0, https://commons.wikimedia.org/wiki/File:Ministerie_van_Financi%C3%ABn_wintertuin1.jpg
4. Schubertsingel, Den Bosch Building, René de Wit (2019), <https://www.archdaily.com/919869>



Additional Insulation
10mm waterproof plaster
10mm plasterbasis
110mm insulation
200mm original reinforced concrete

Double Glazing with wooden Window frame

new added ballustrades
anthracite steel railings
pattern perforated plate

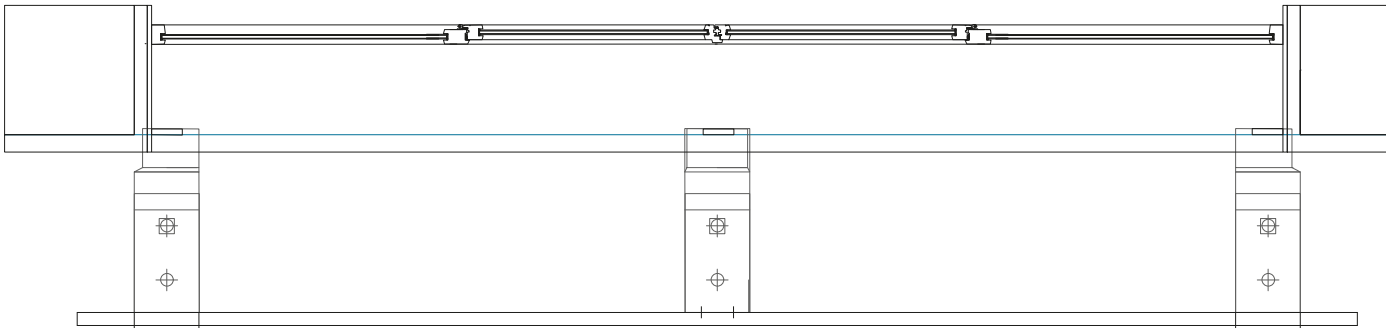
Heated Floor
20mm floor covering
10mm underlay flooring

55mm screed with floorheating and installations (in the area where the balcony is connected there are more flore heating tubes)

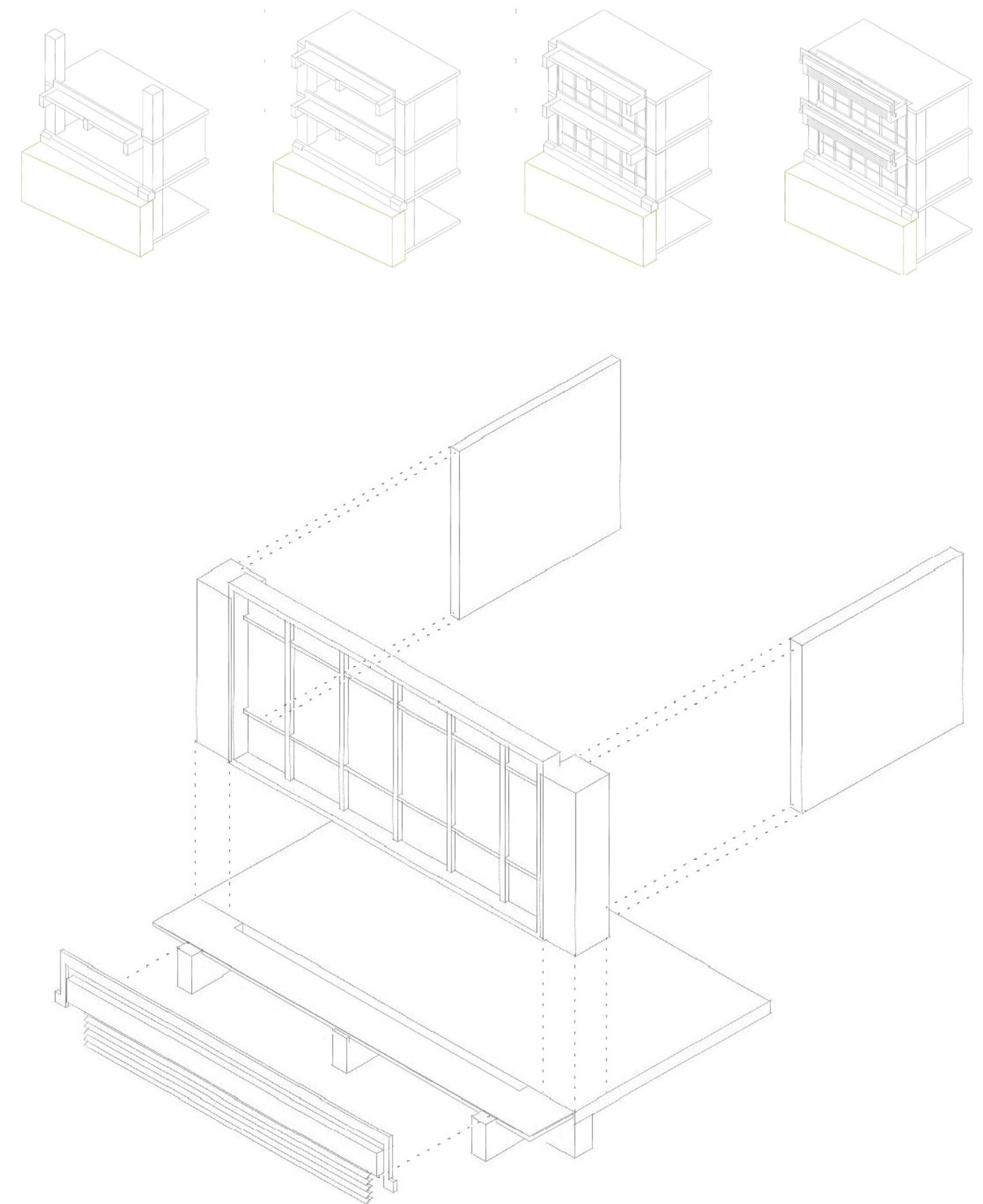
30mm insulation
260mm floor slab

Inner Clay Walls
60 x 80 mm wooden post and beam construction with 80 mm jute insulation
16 mm clay building boards (e.g. Lemix)
Connecting fabric
Fine clay plaster
Clay paint

Existing Walls



*Image from the Police station during the building process (blackened)



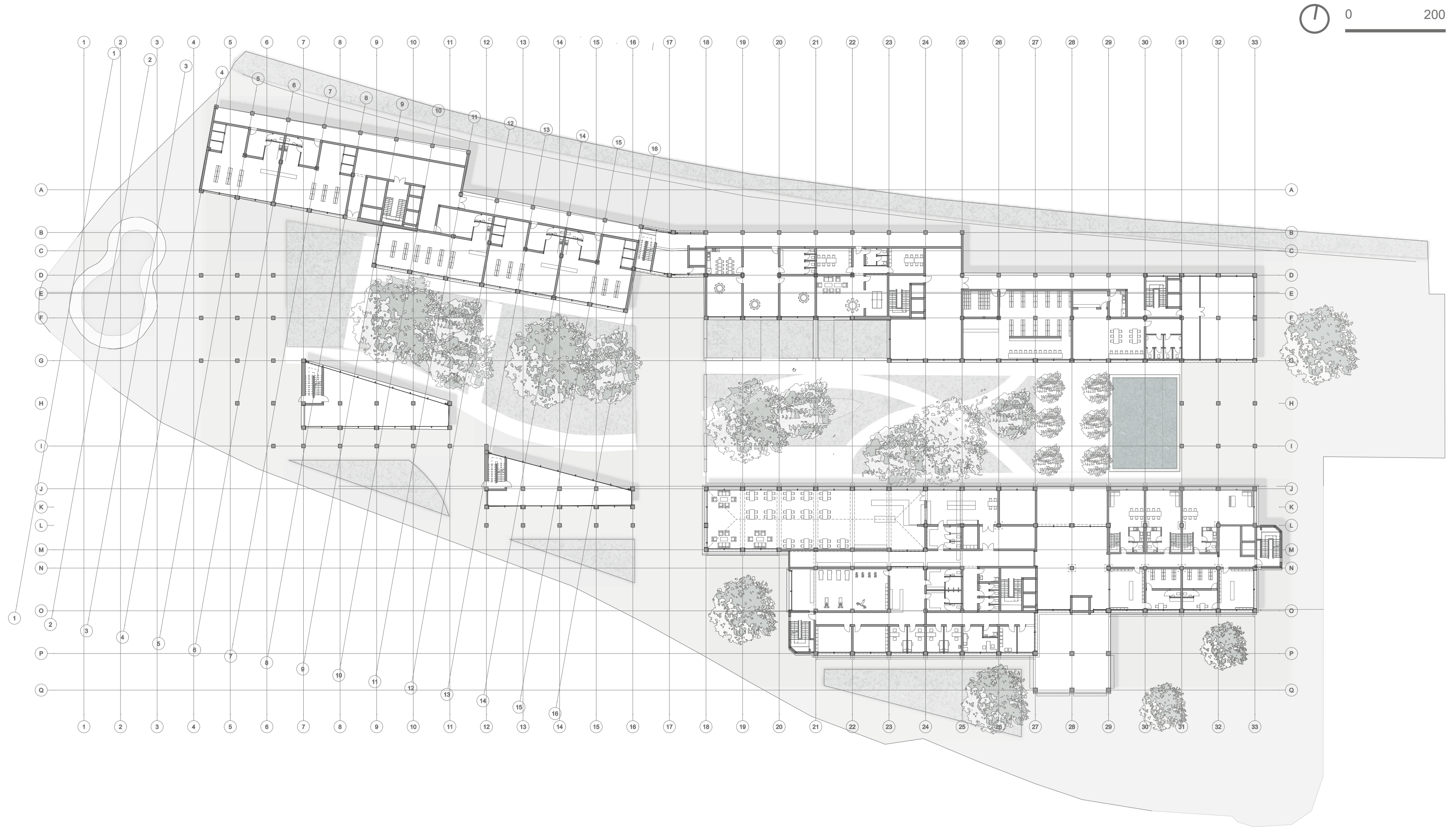
Source:
Bouw politiebureau, Mathildelaan 4, 04-1980 R. vn Mierlo, Regionaal Historisch Centrum Eindhoven.



*Image from an office
door inside the Police
building (blackened)

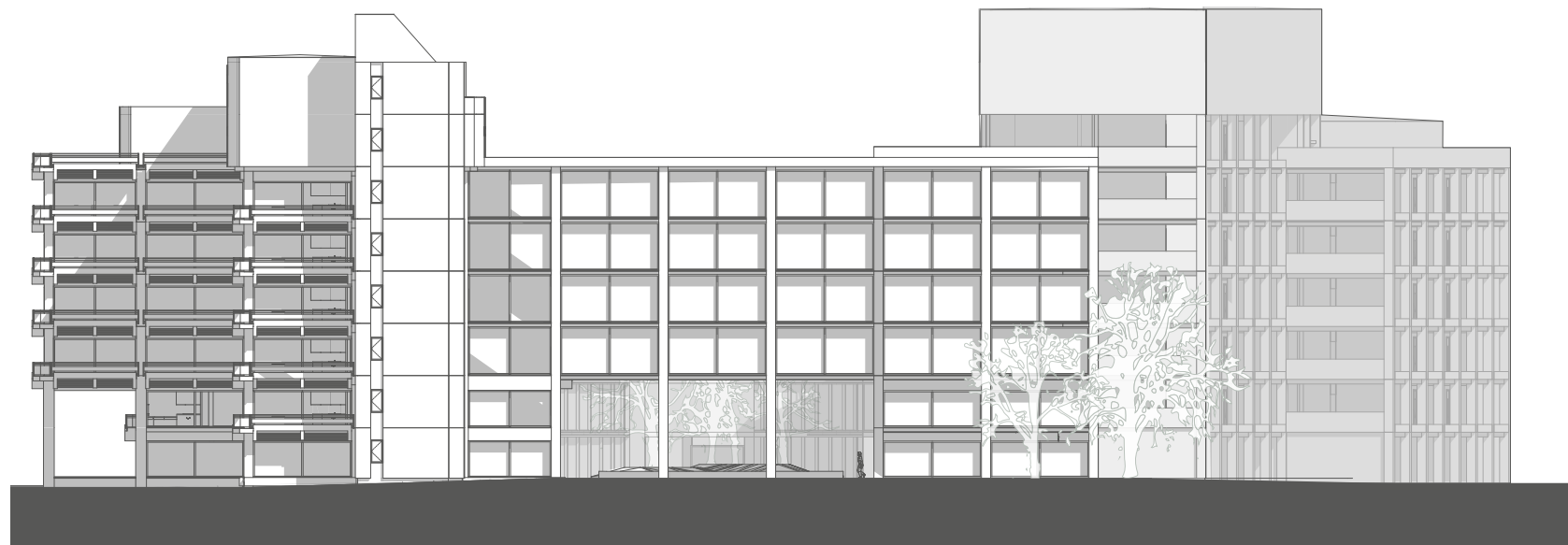


CONCRETE ONLY IN THE LOADBEARING GRID SYSTEM









„But beauty will be perceived differently in the next century than in the last, because the term is subjective and time-bound.“

- Herman Kraaijvanger in an Interview from 1962



THANK YOU.



