

TIJMEN LOURENS DIJK
4303458

IR. T.W. KUPERS
IR. F. ADEMA
IR. P.S. VAN DER PUTT

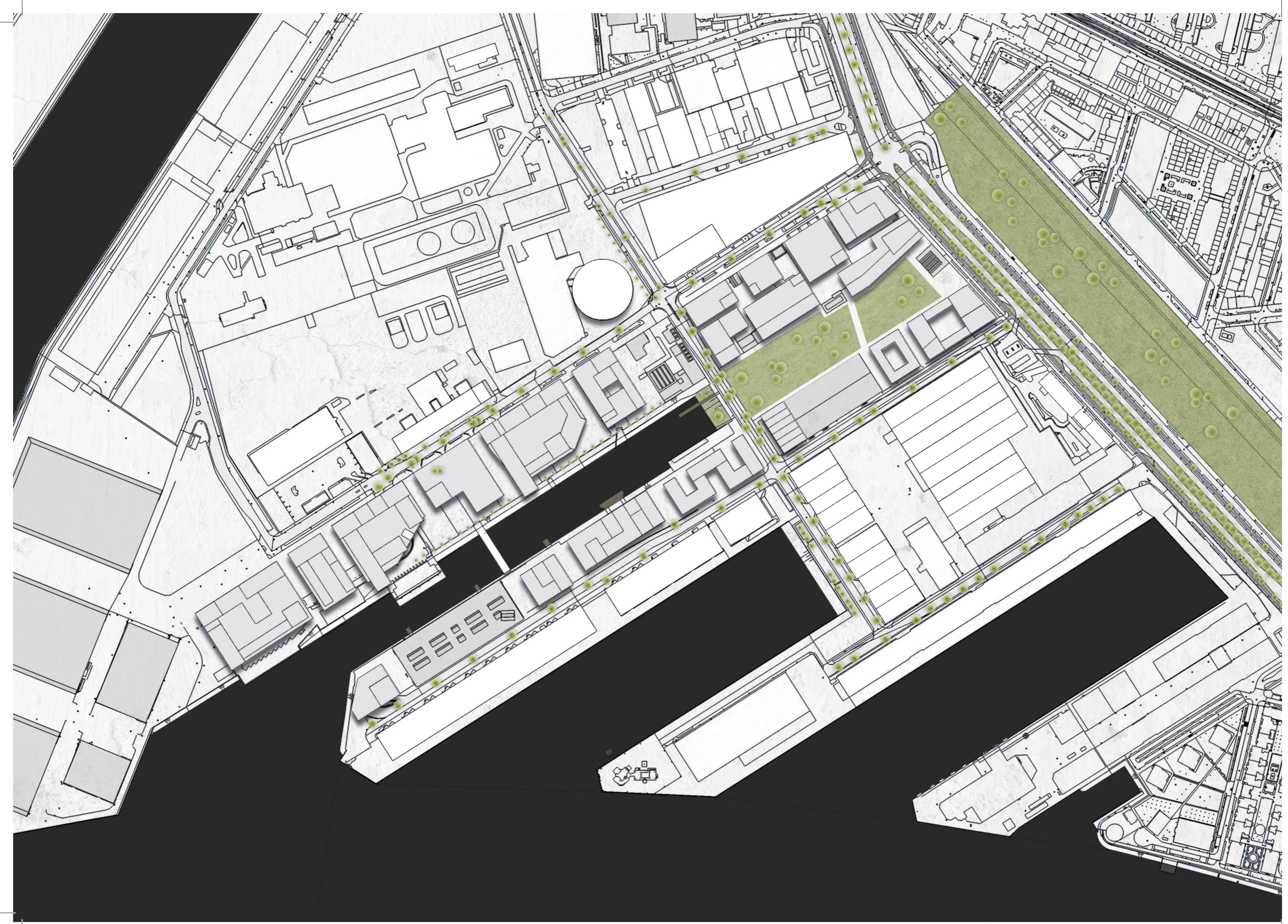
TU DELFT | FACULTY OF ARCHITECTURE
ARCHITECTURE AND DWELLING

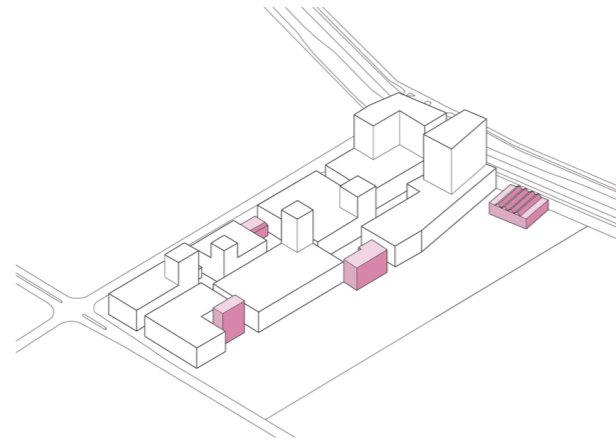
DUTCH HOUSING
GRADUATION STUDIO
JANUARY 2021

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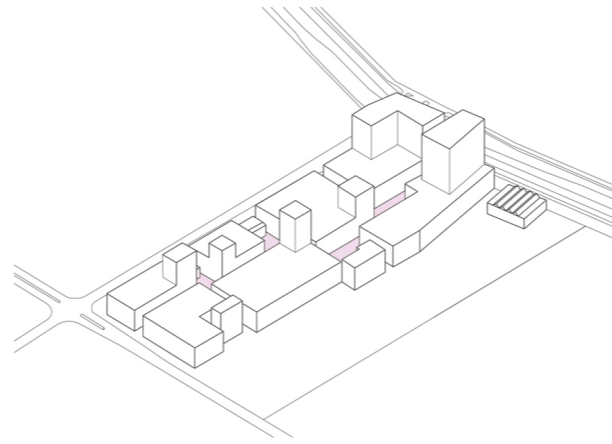
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URBAN DESIGN

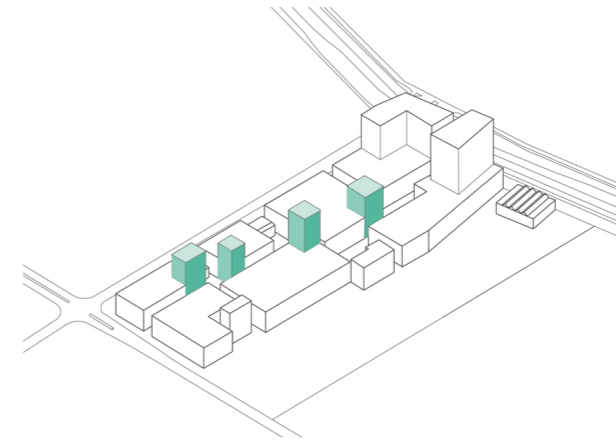




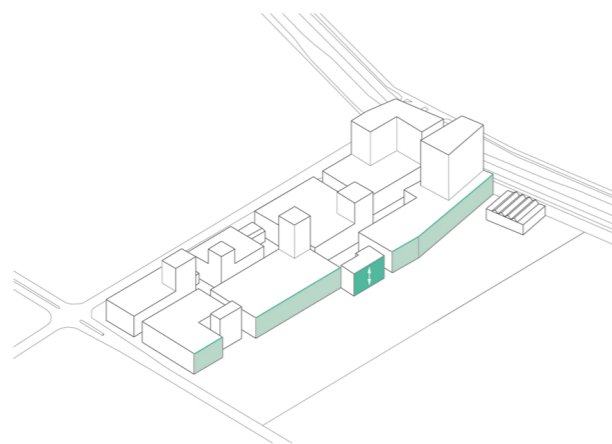
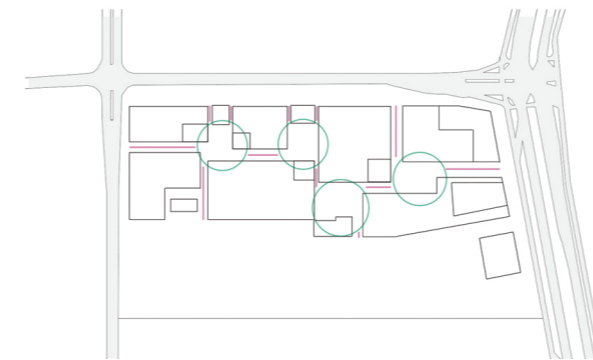
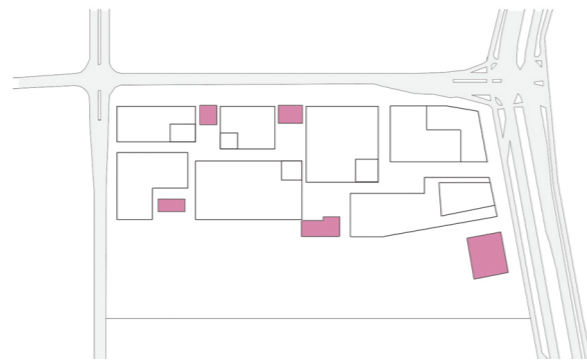
Keep the old characteristic buildings
And form the new buildings around them.



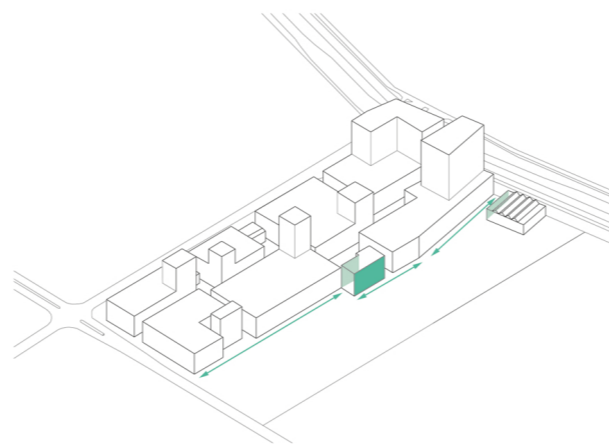
Create small squares inside the block
to keep the cozyness of the current
area alive



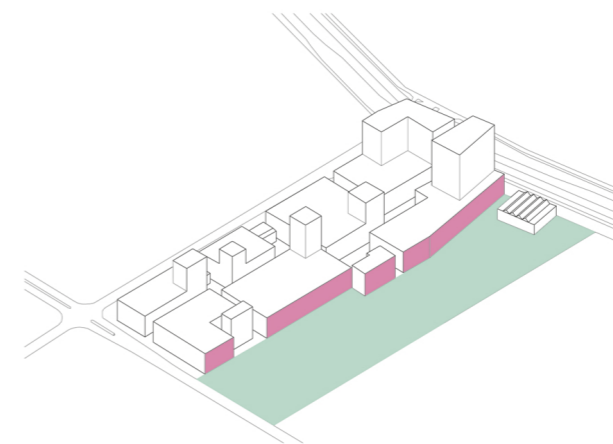
Create landmarks
at the end of every street



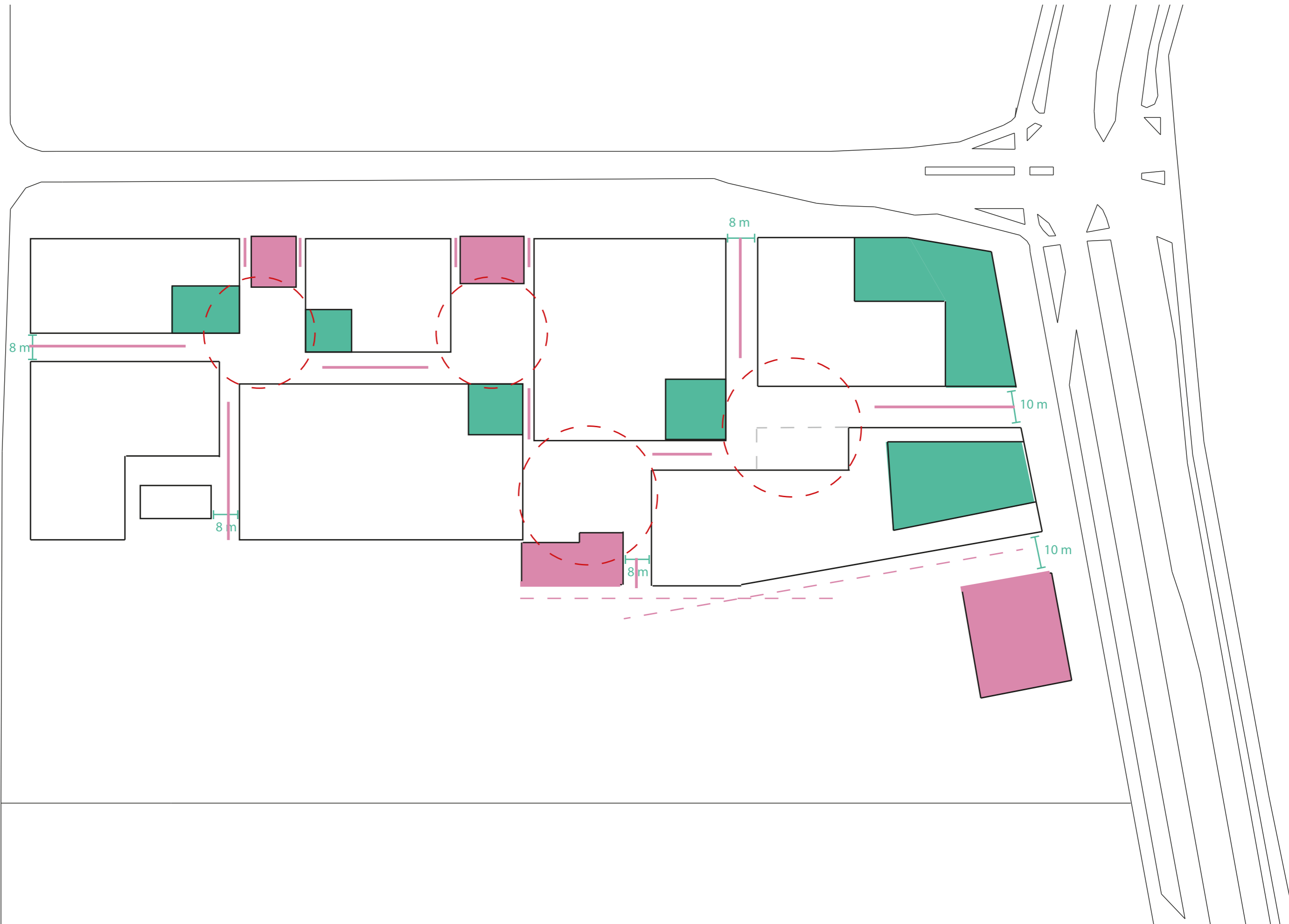
The building height at the park side
is based on the height of the soundport
building



The building line at the park side
is based on the kept buildings



The facades at the park side
are all the same height and orientated to
the park (South-East)





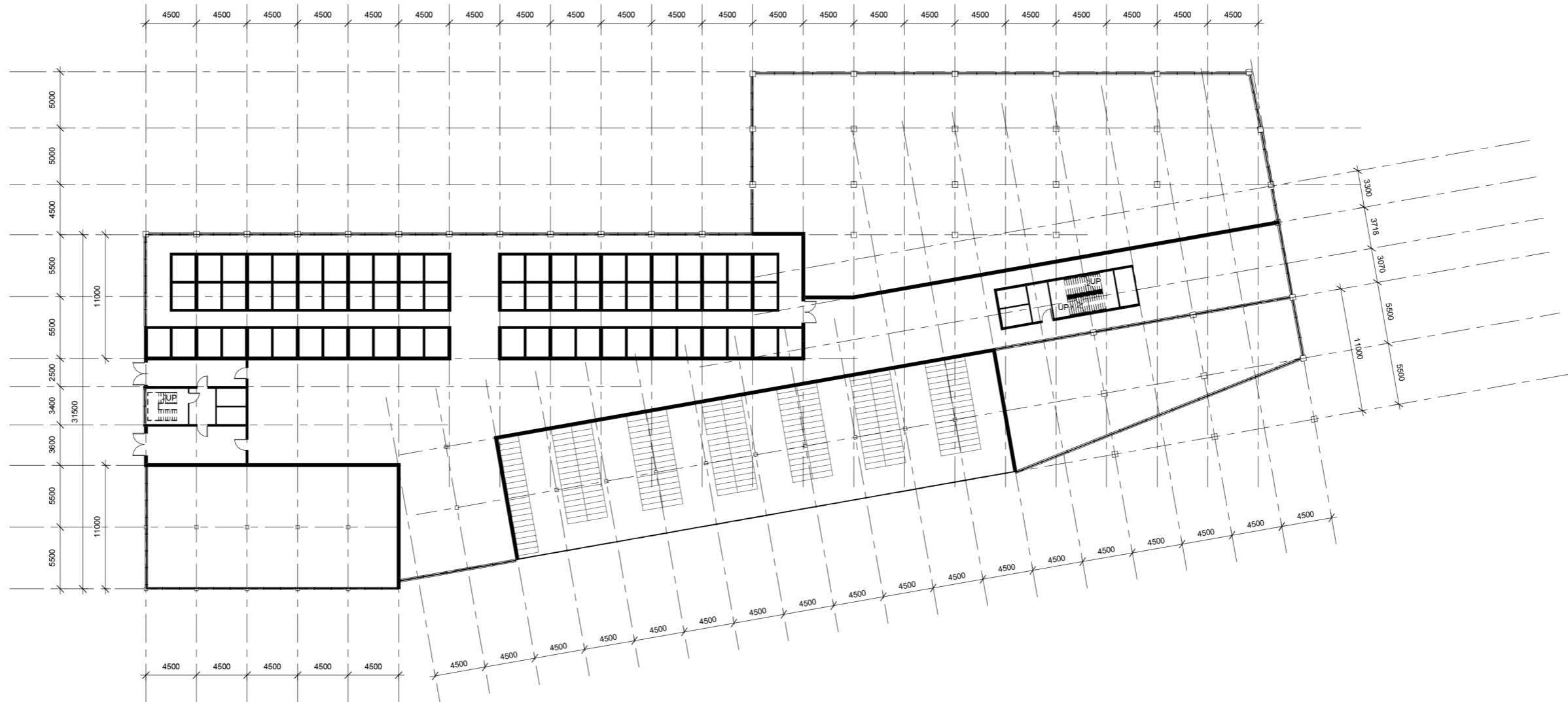
Keileweg

Benjamin Franklinstraat

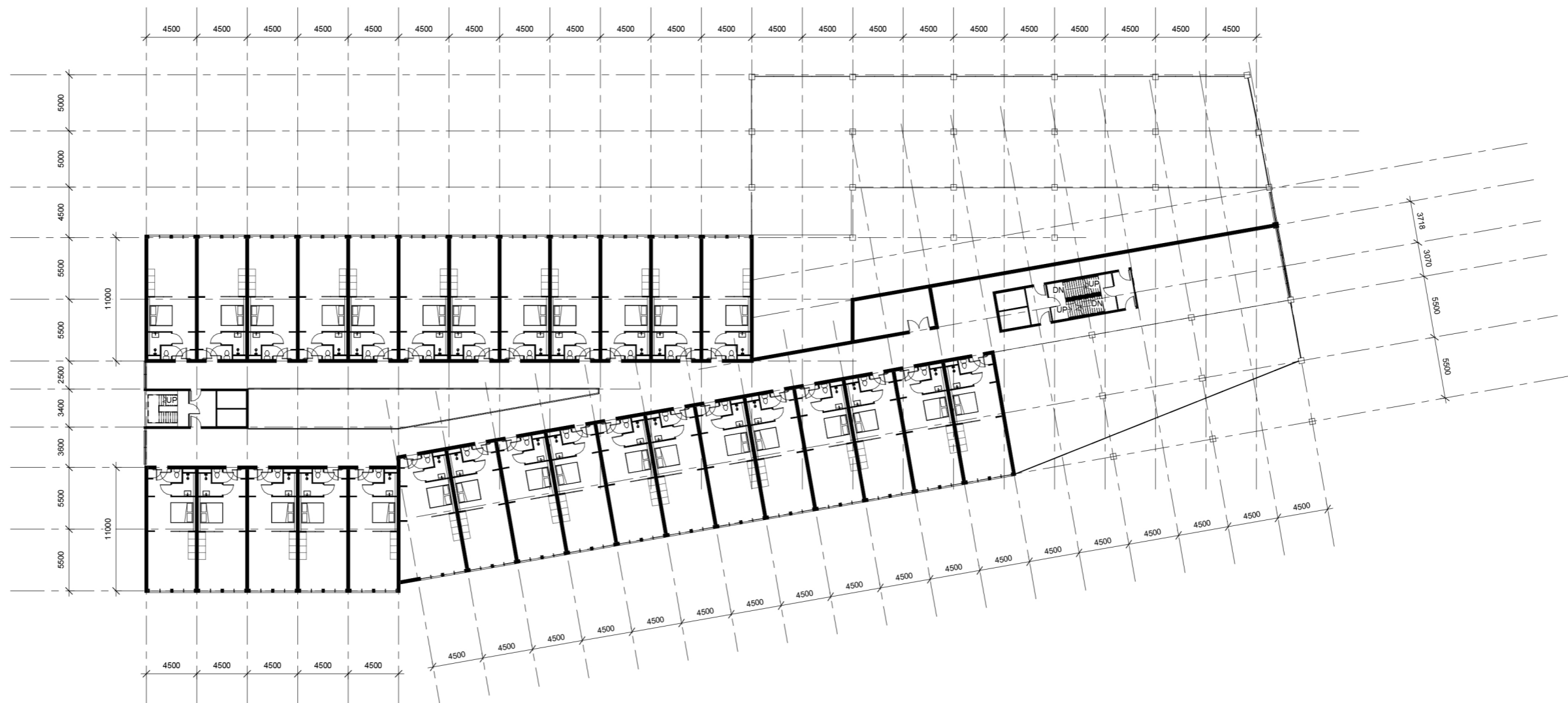
Vrienenstraat

Keilestraat

FLOORPLANS

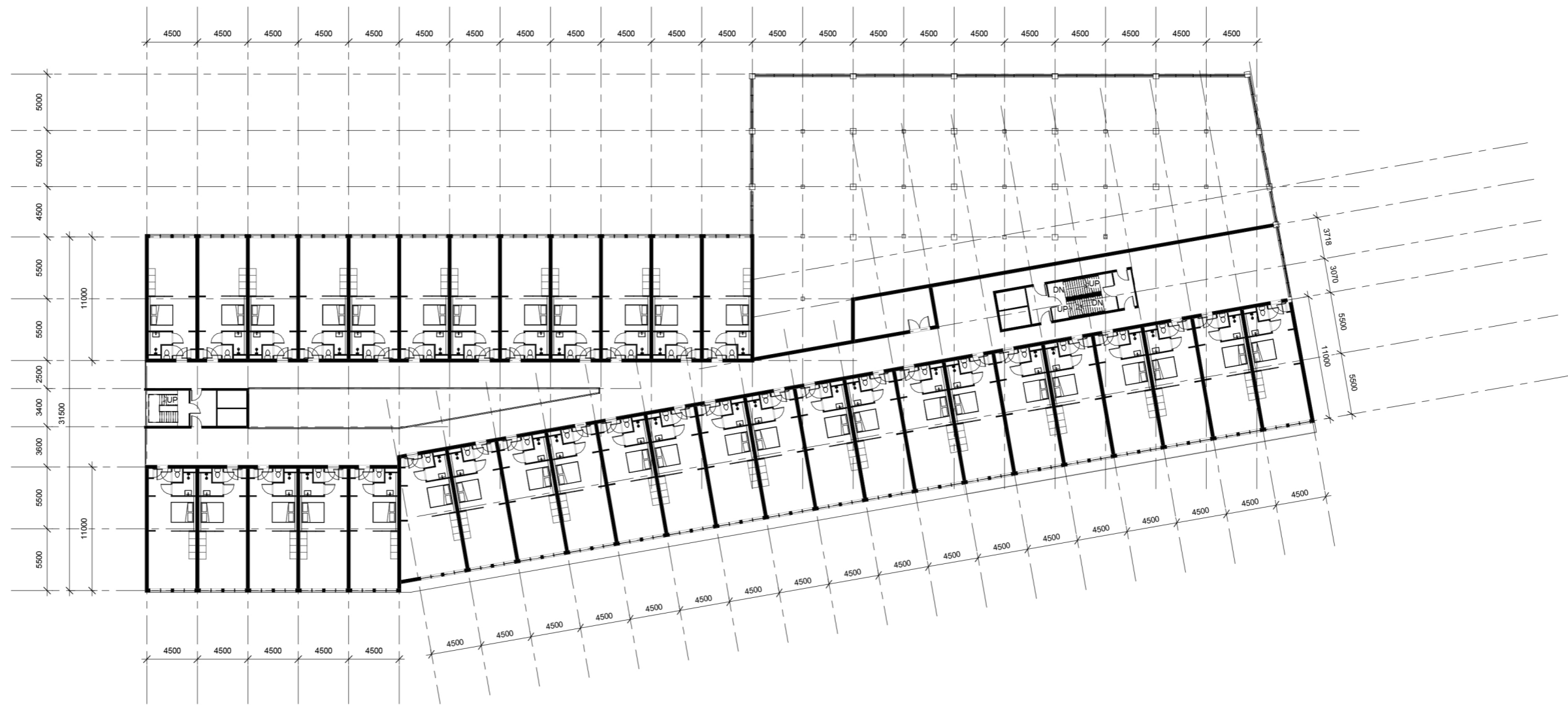


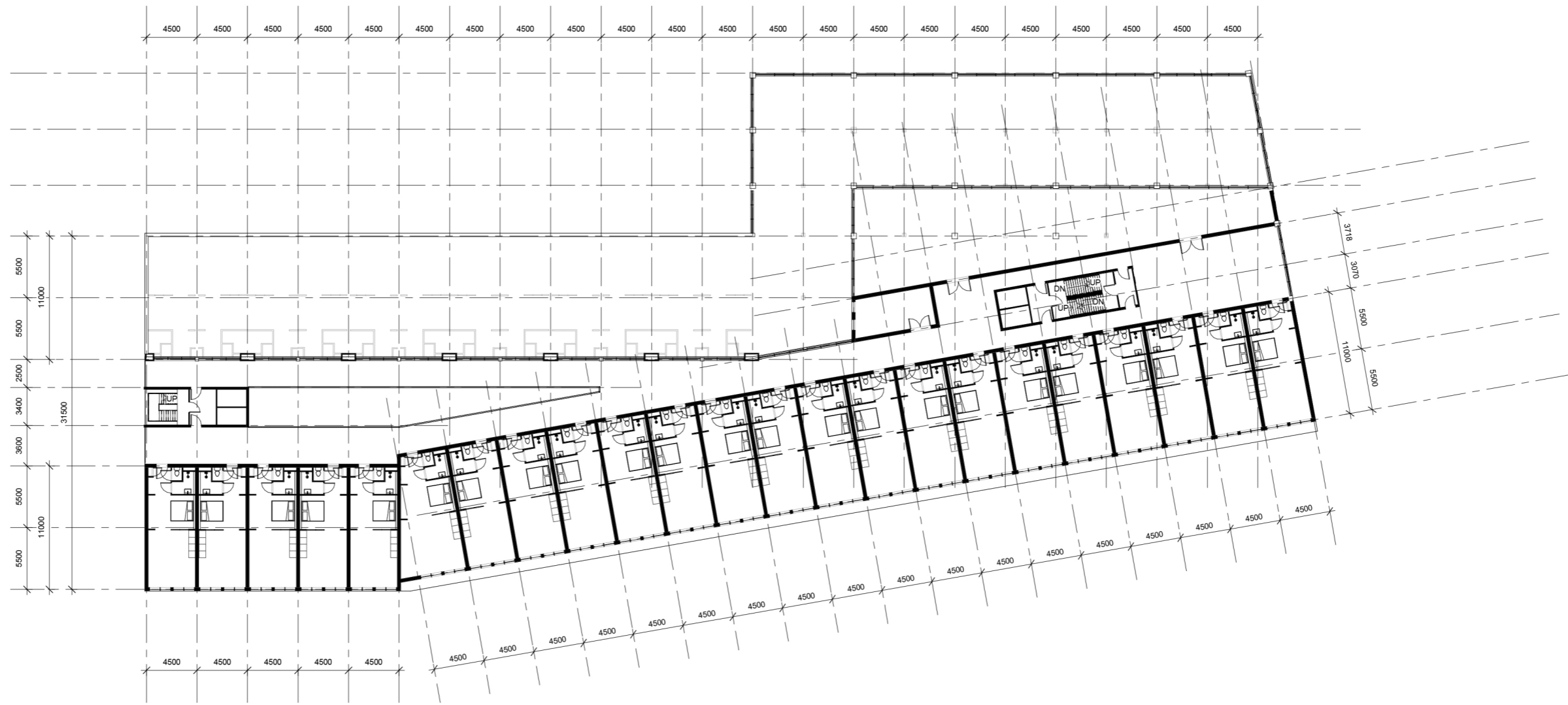
GROUND FLOOR
1:400

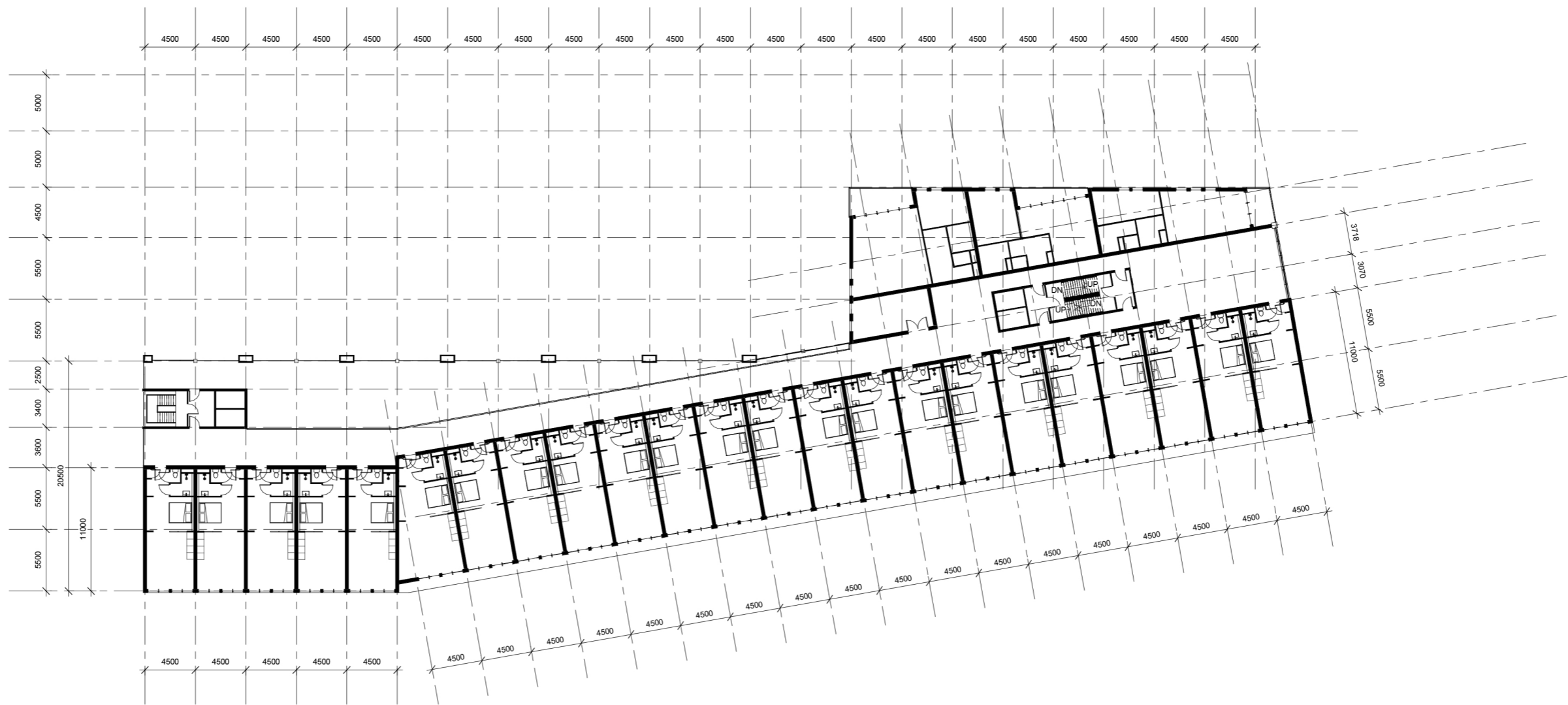


FIRST FLOOR
1:400







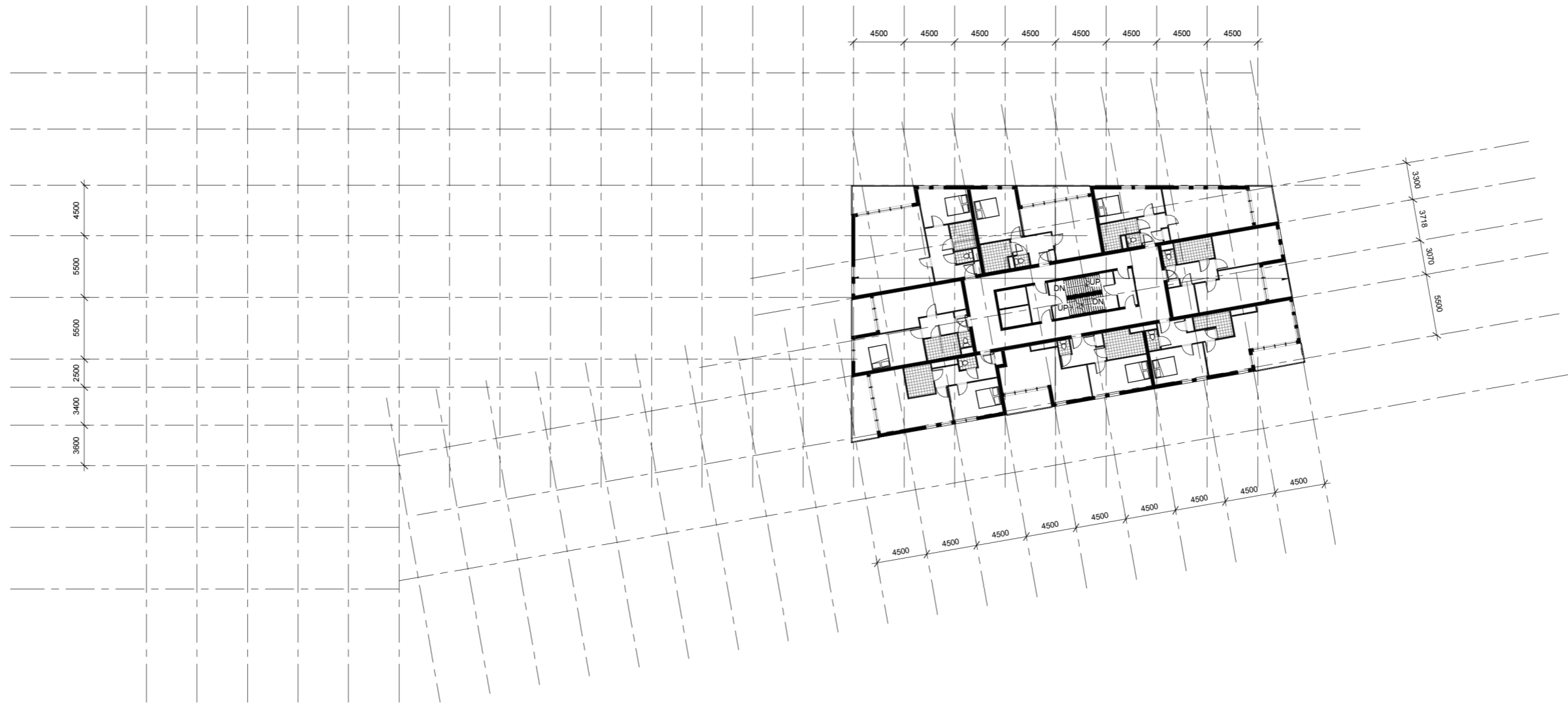




SIXTH FLOOR
1:400



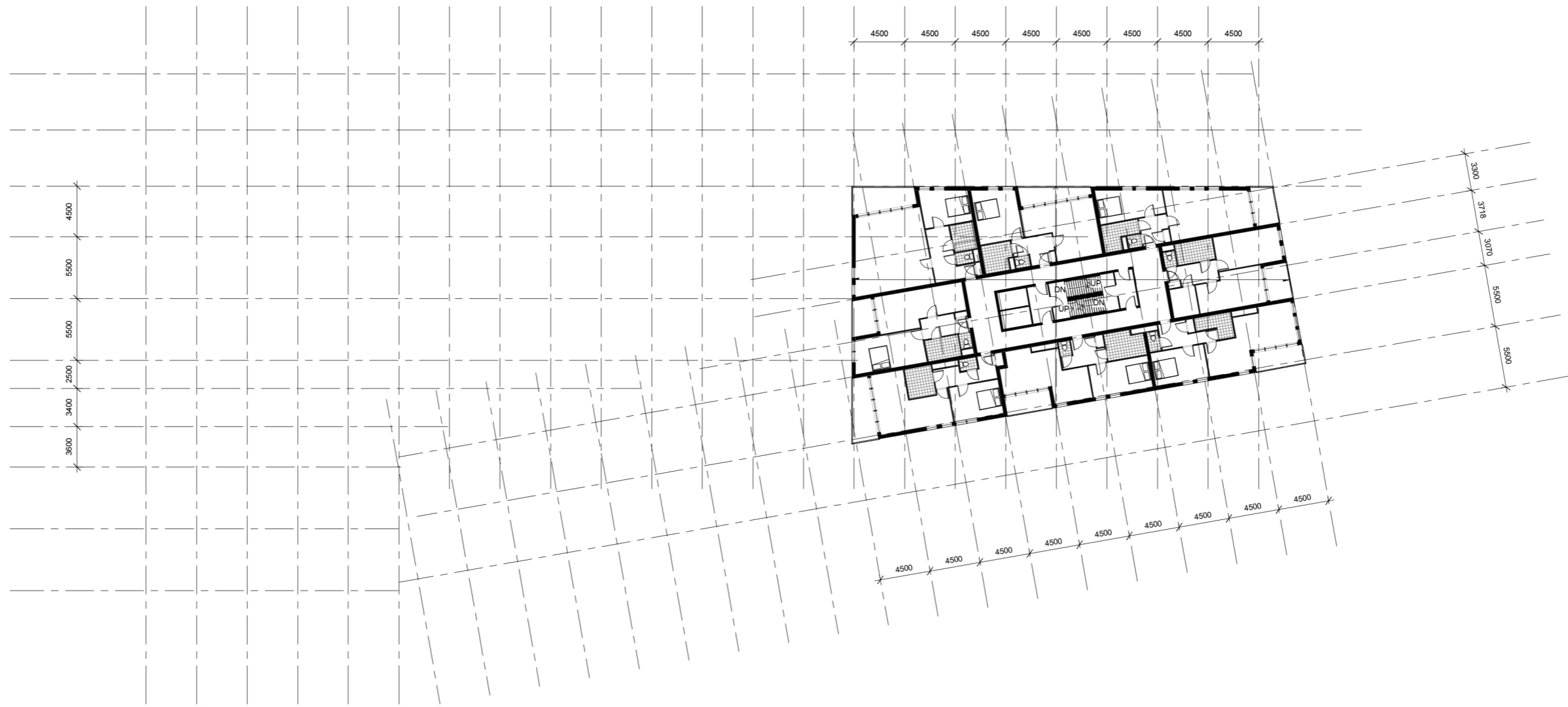


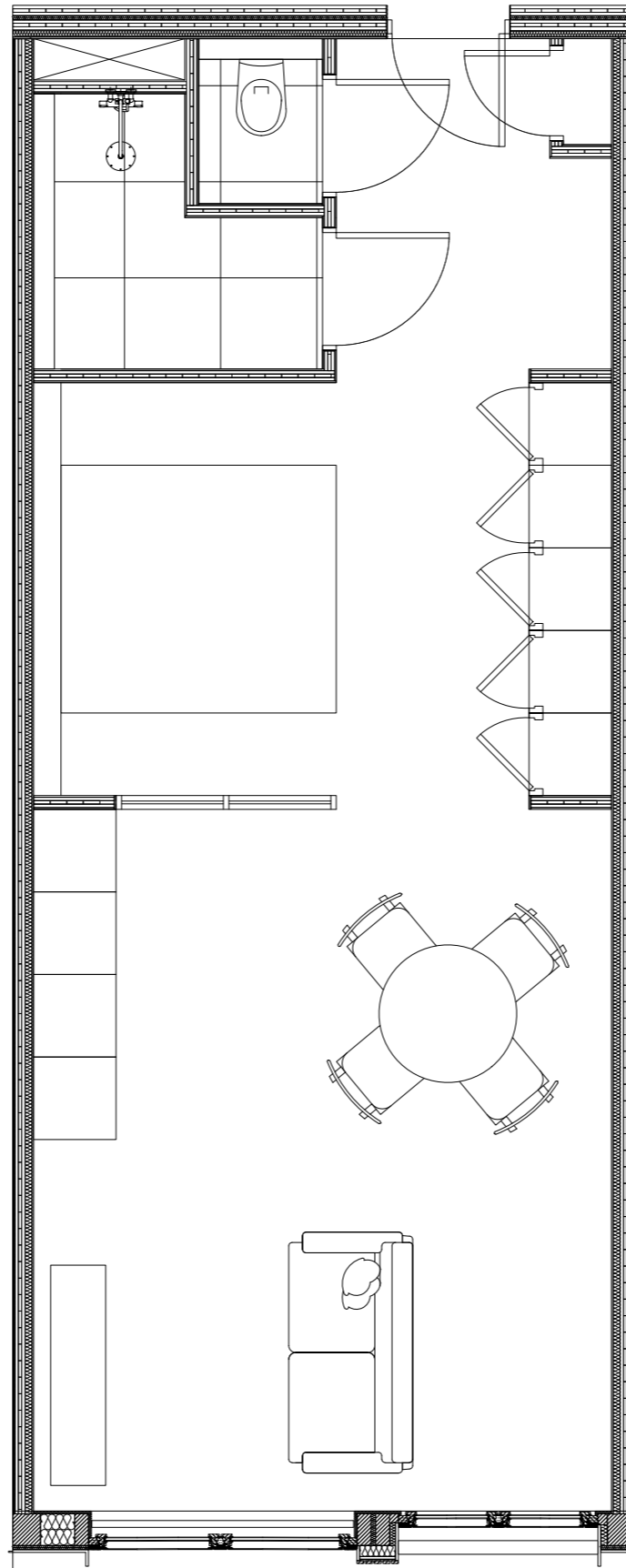


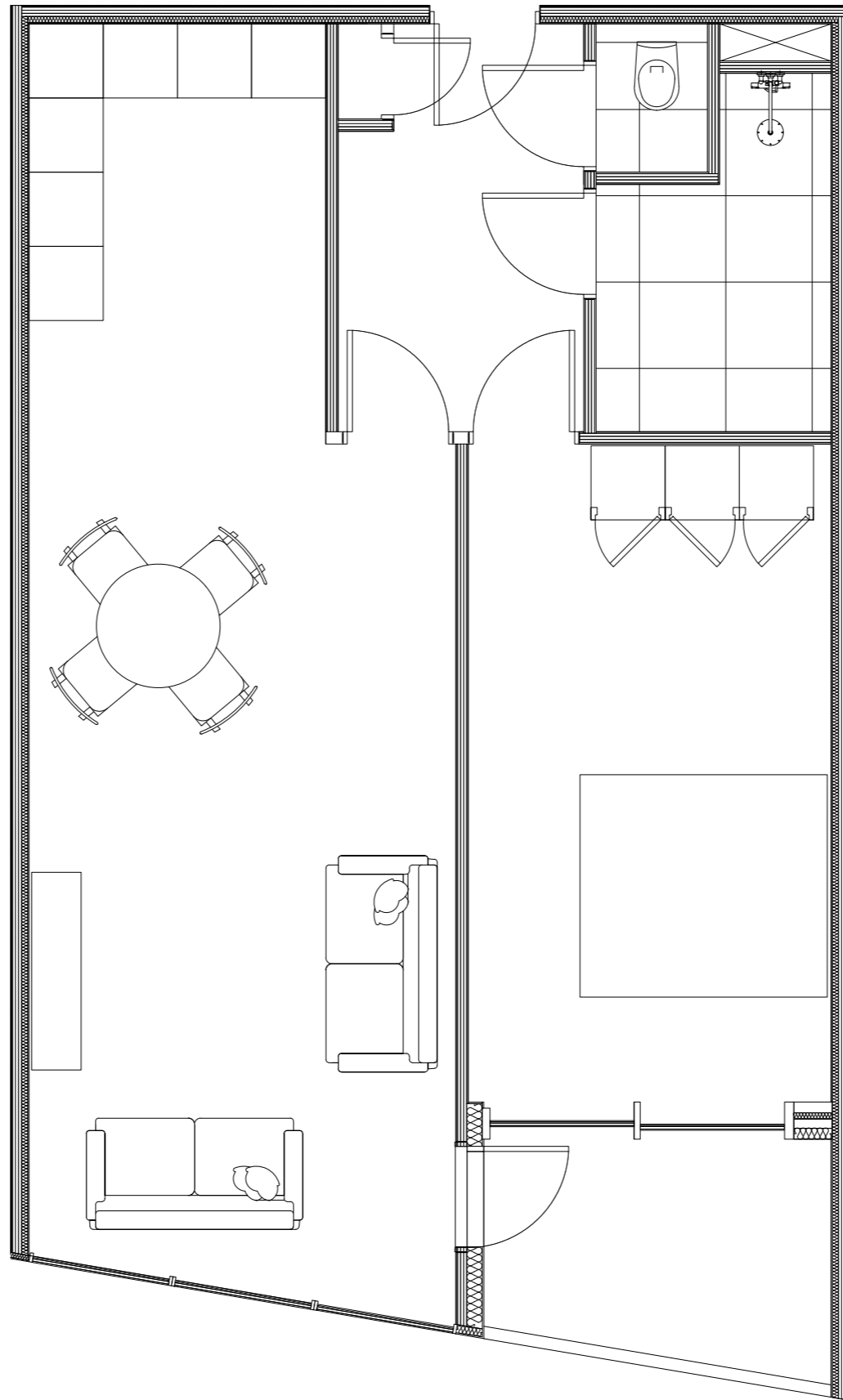




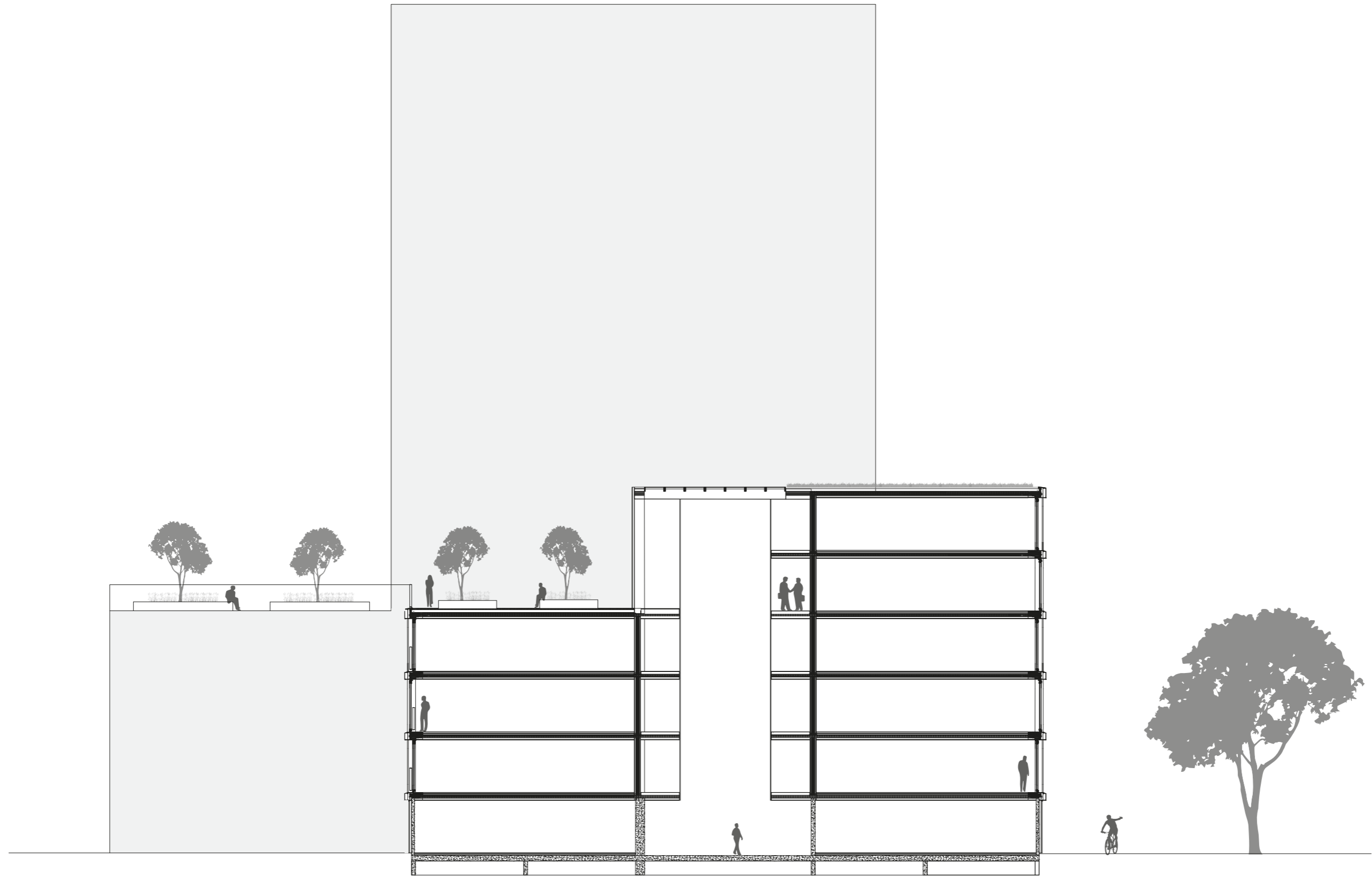


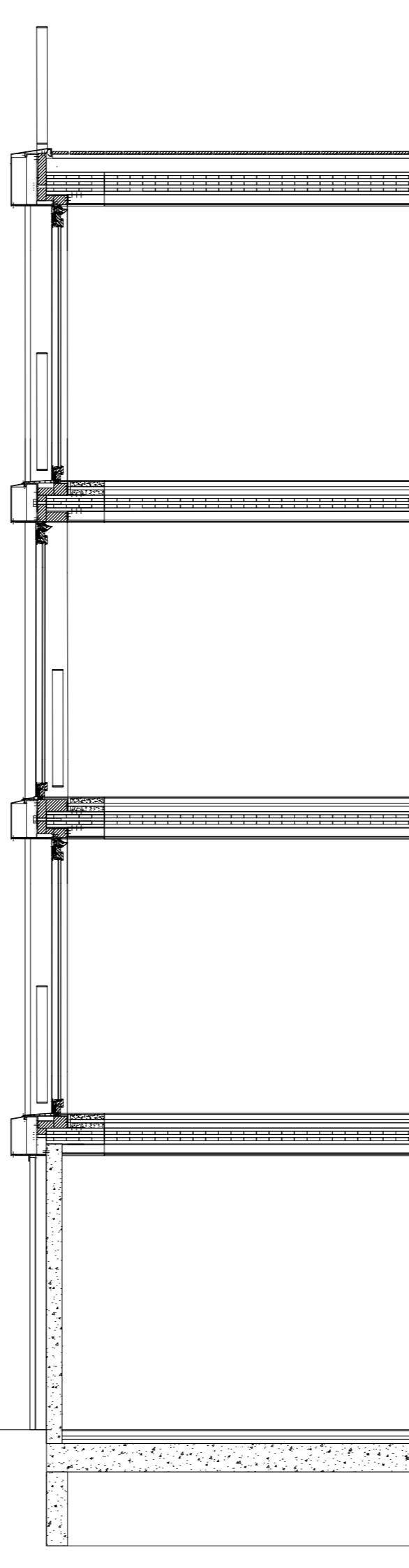






TECHNICAL DRAWINGS

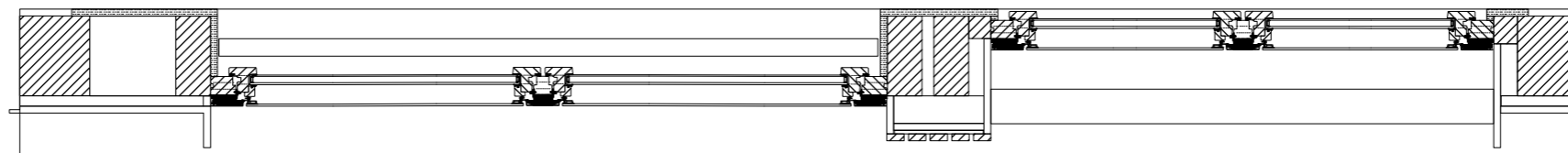
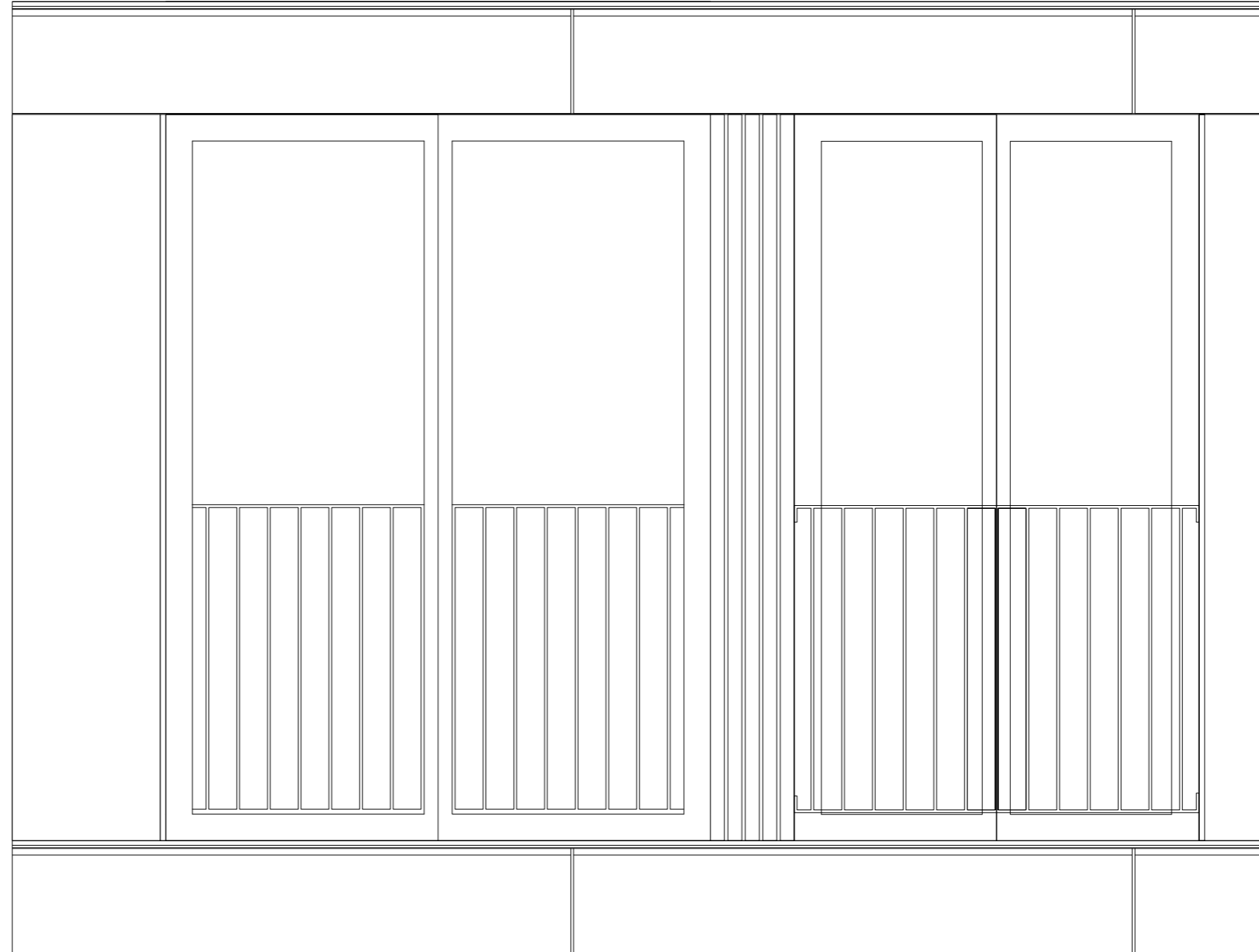
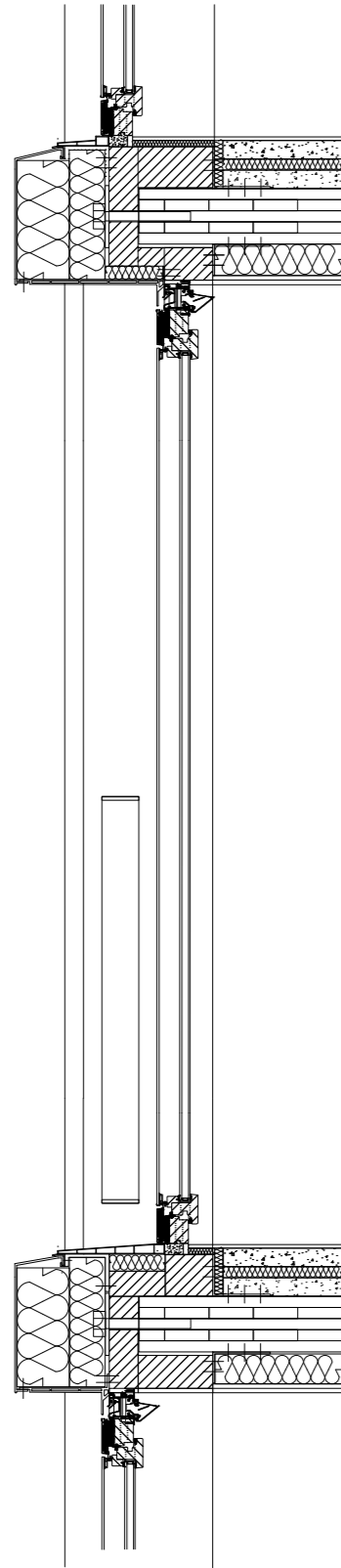




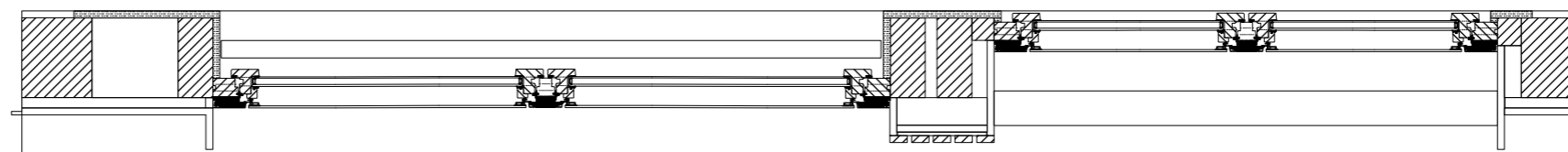
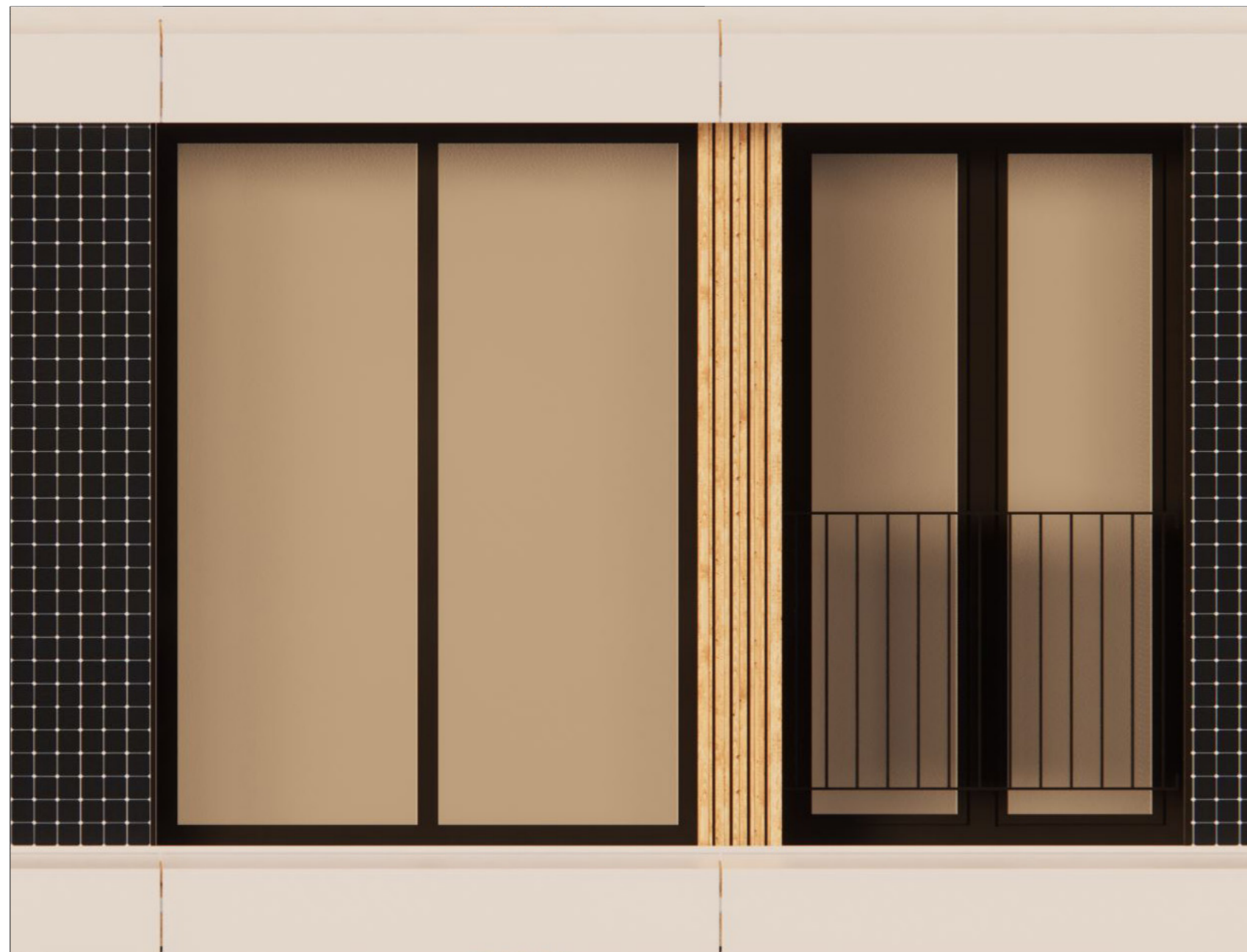
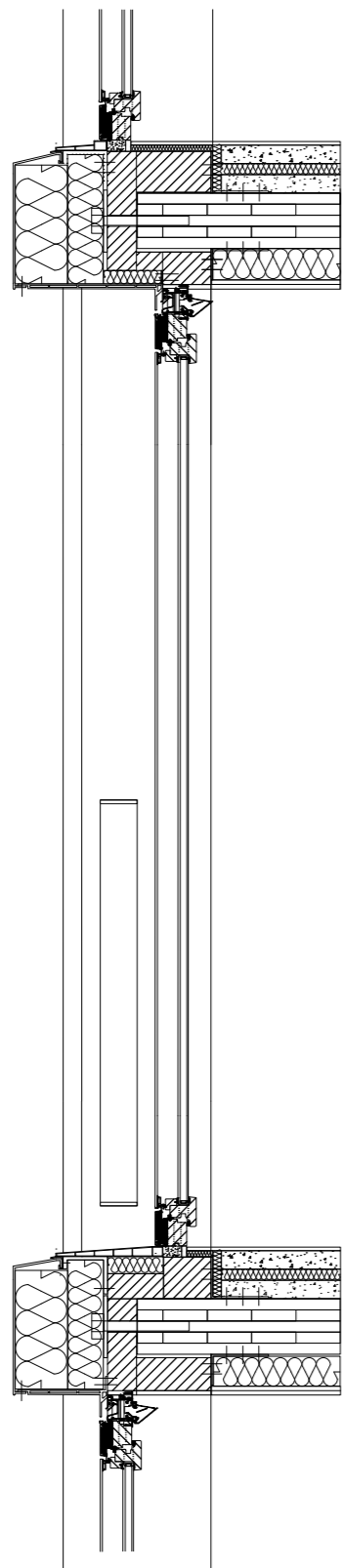
FACADE SECTION

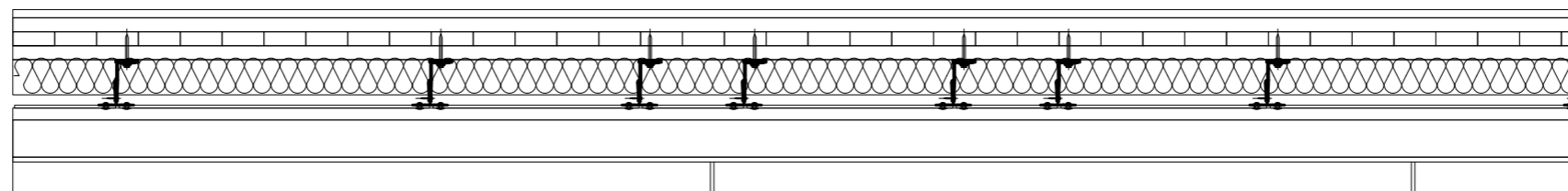
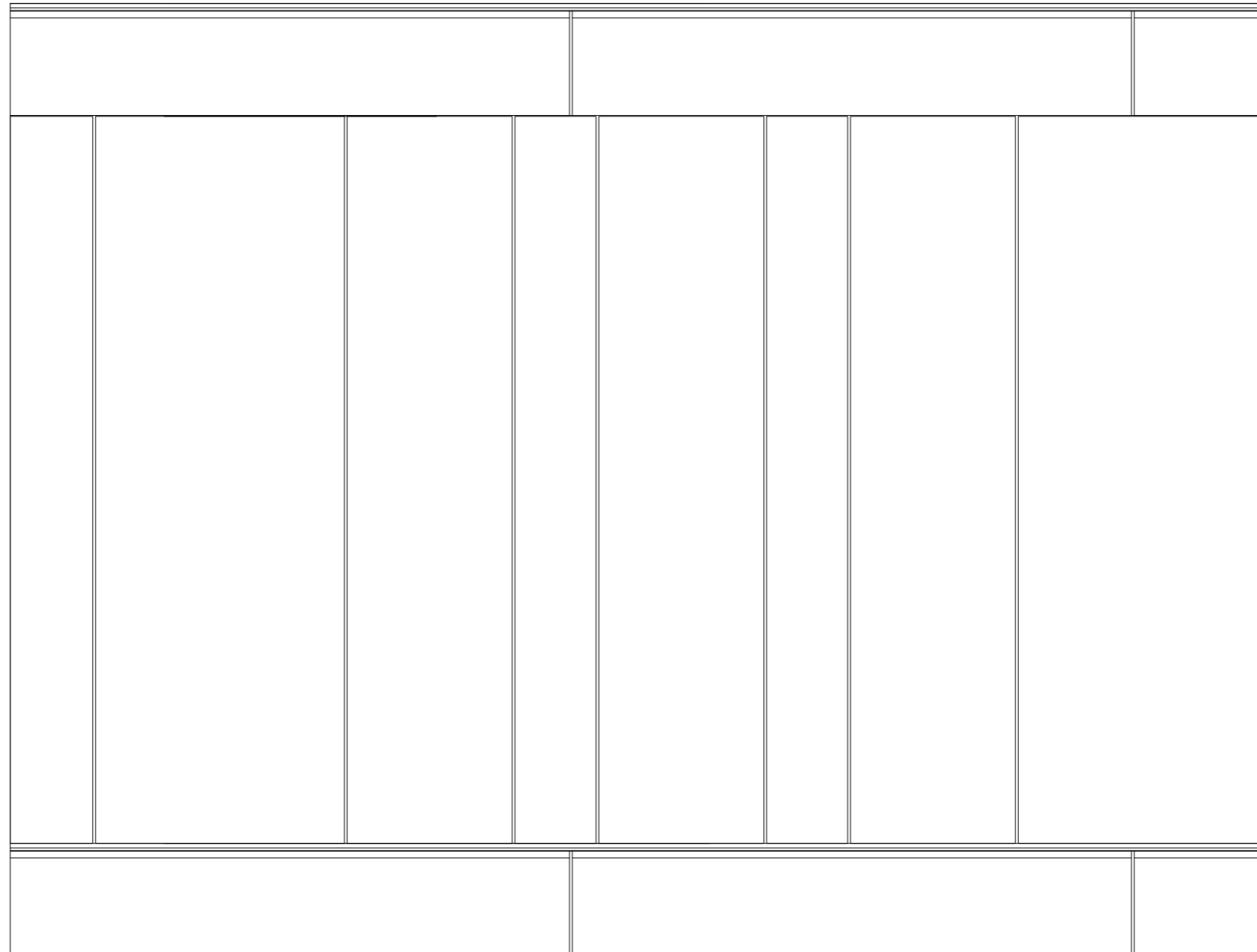
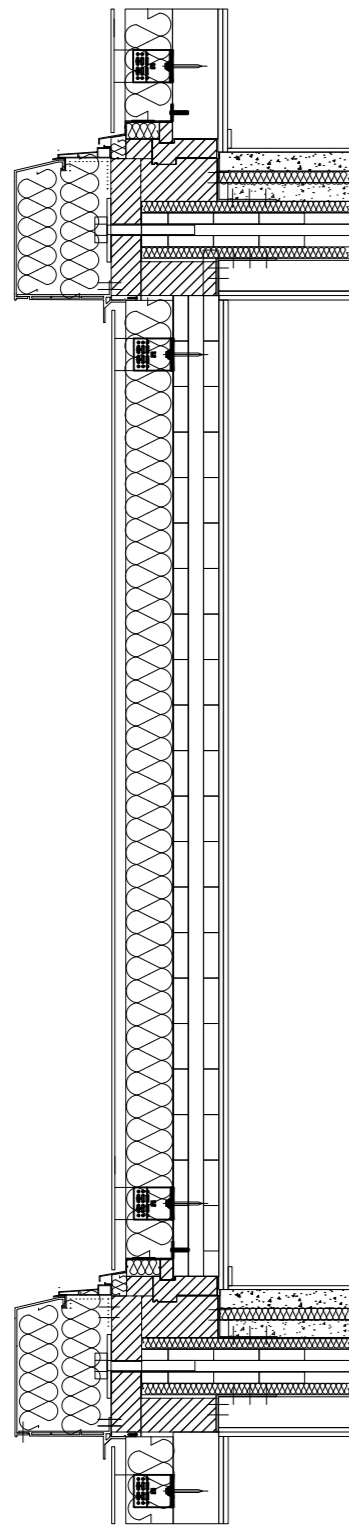
1:50

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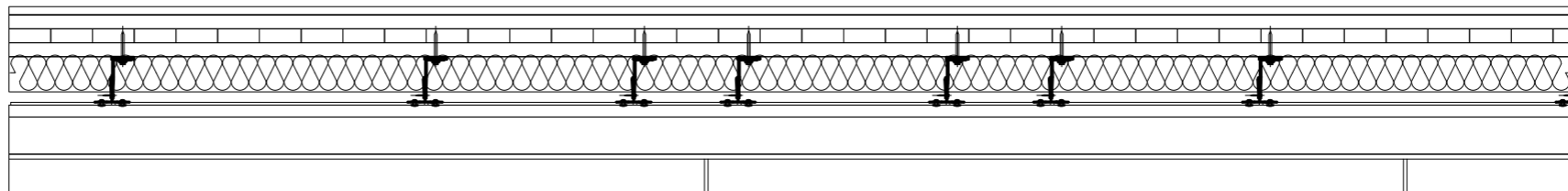
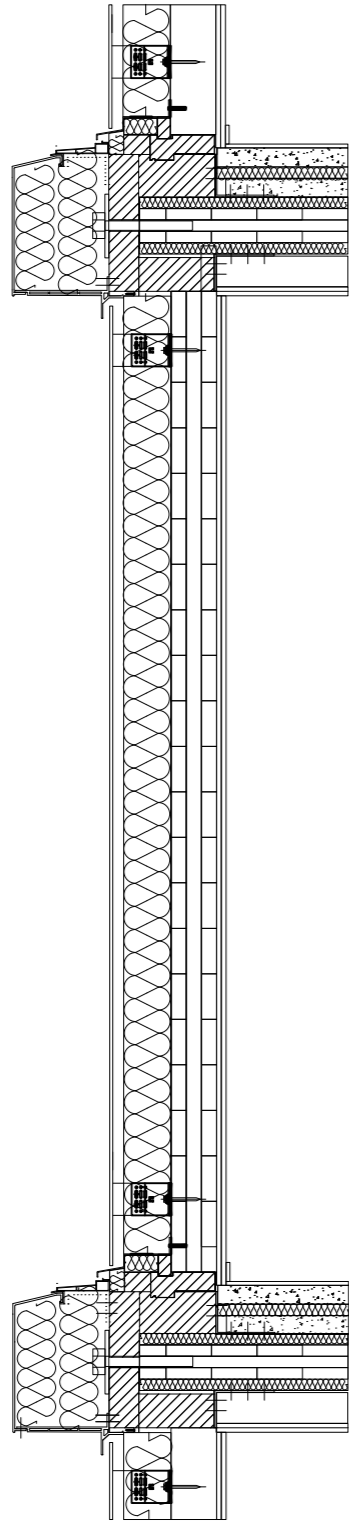


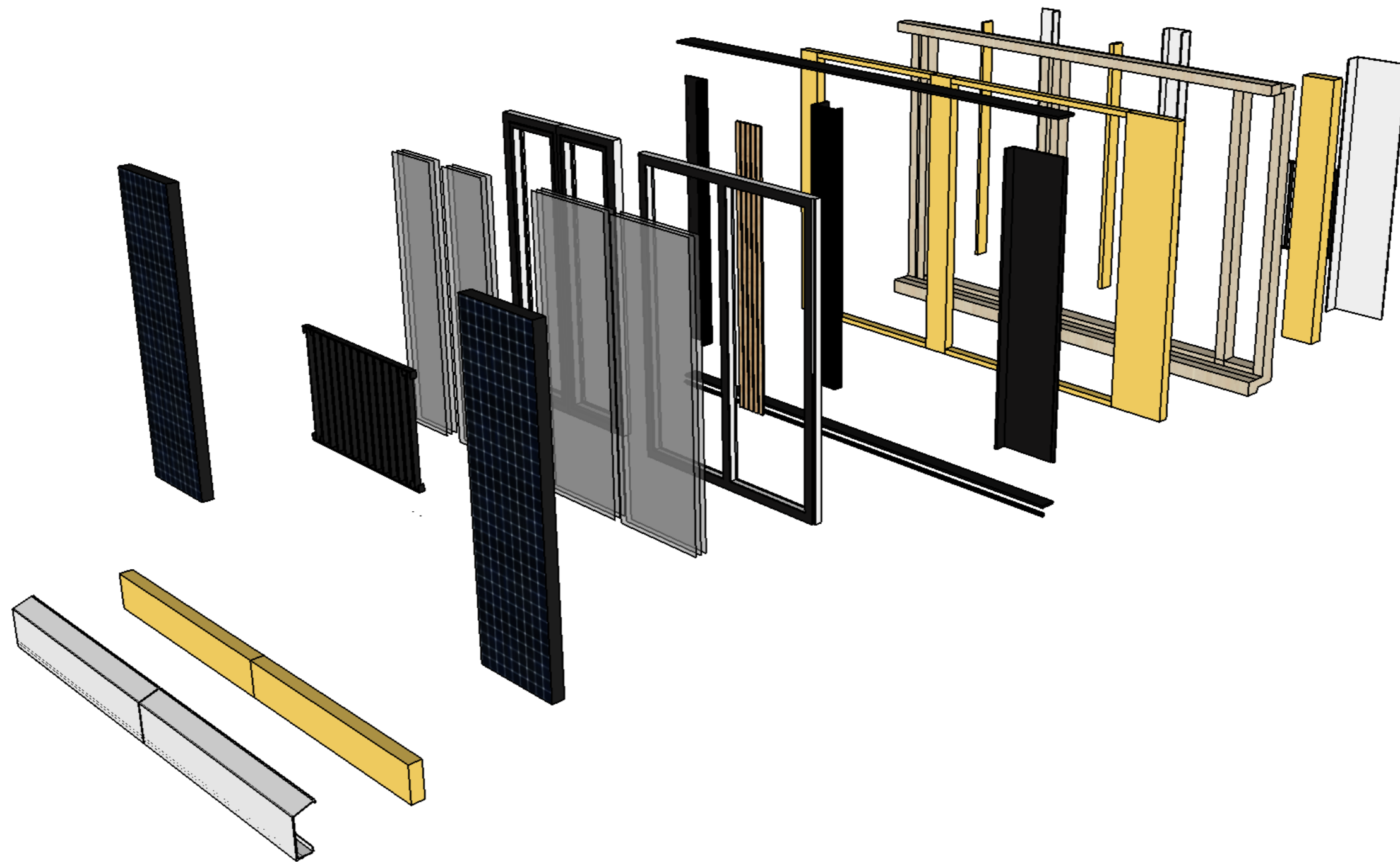
FACADE FRAGMENT
1:20

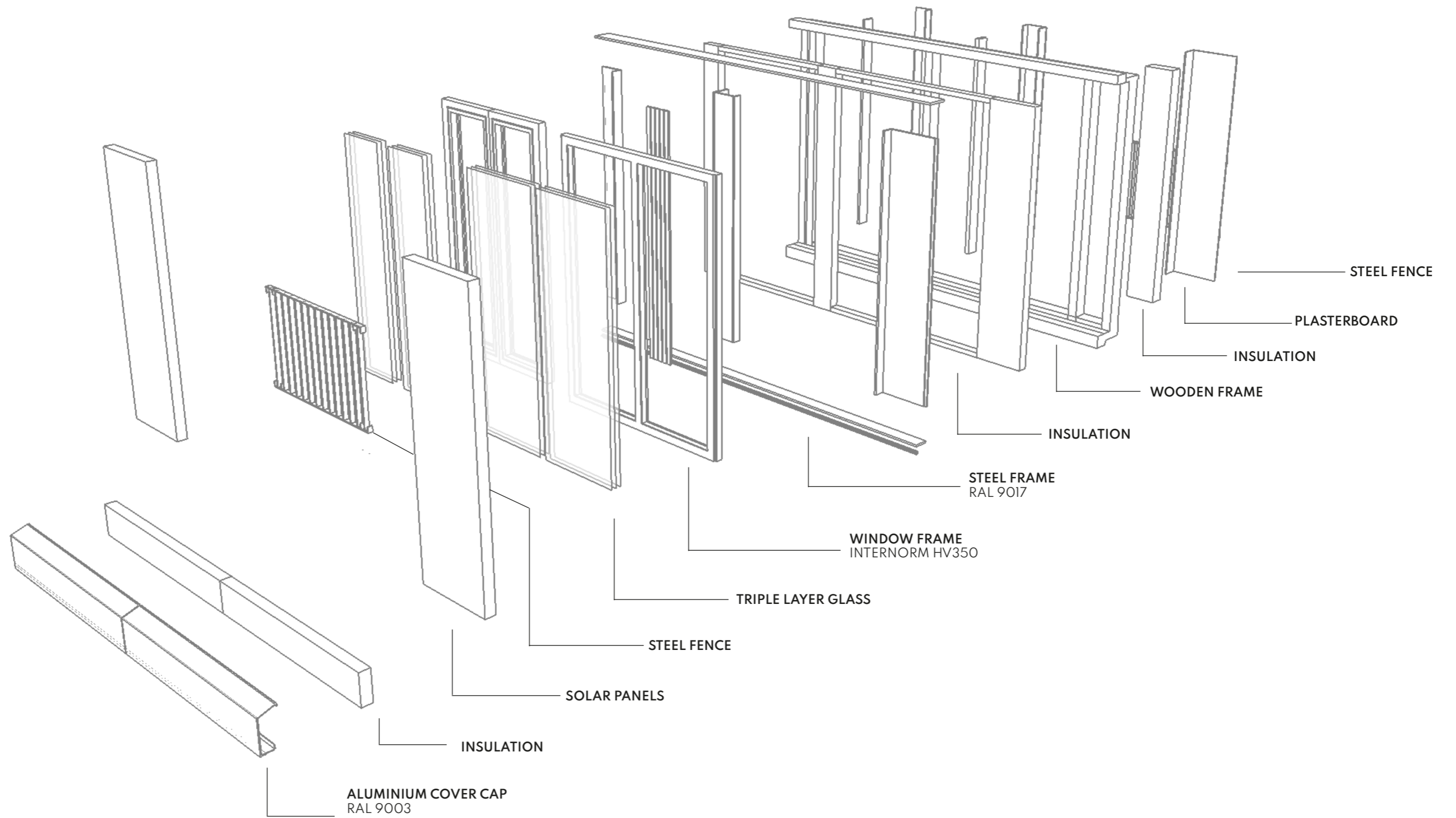


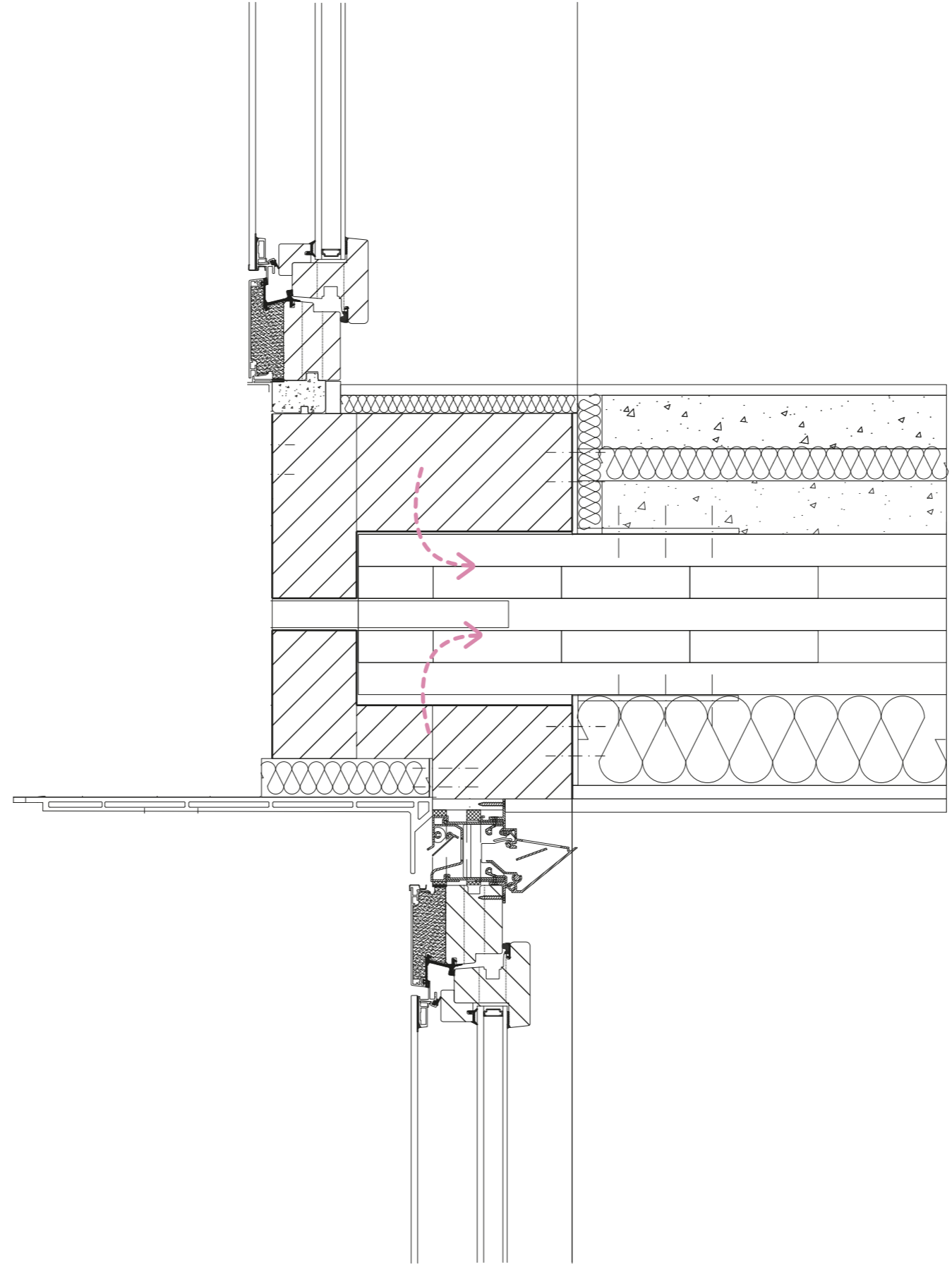


FACADE FRAGMENT
1:20

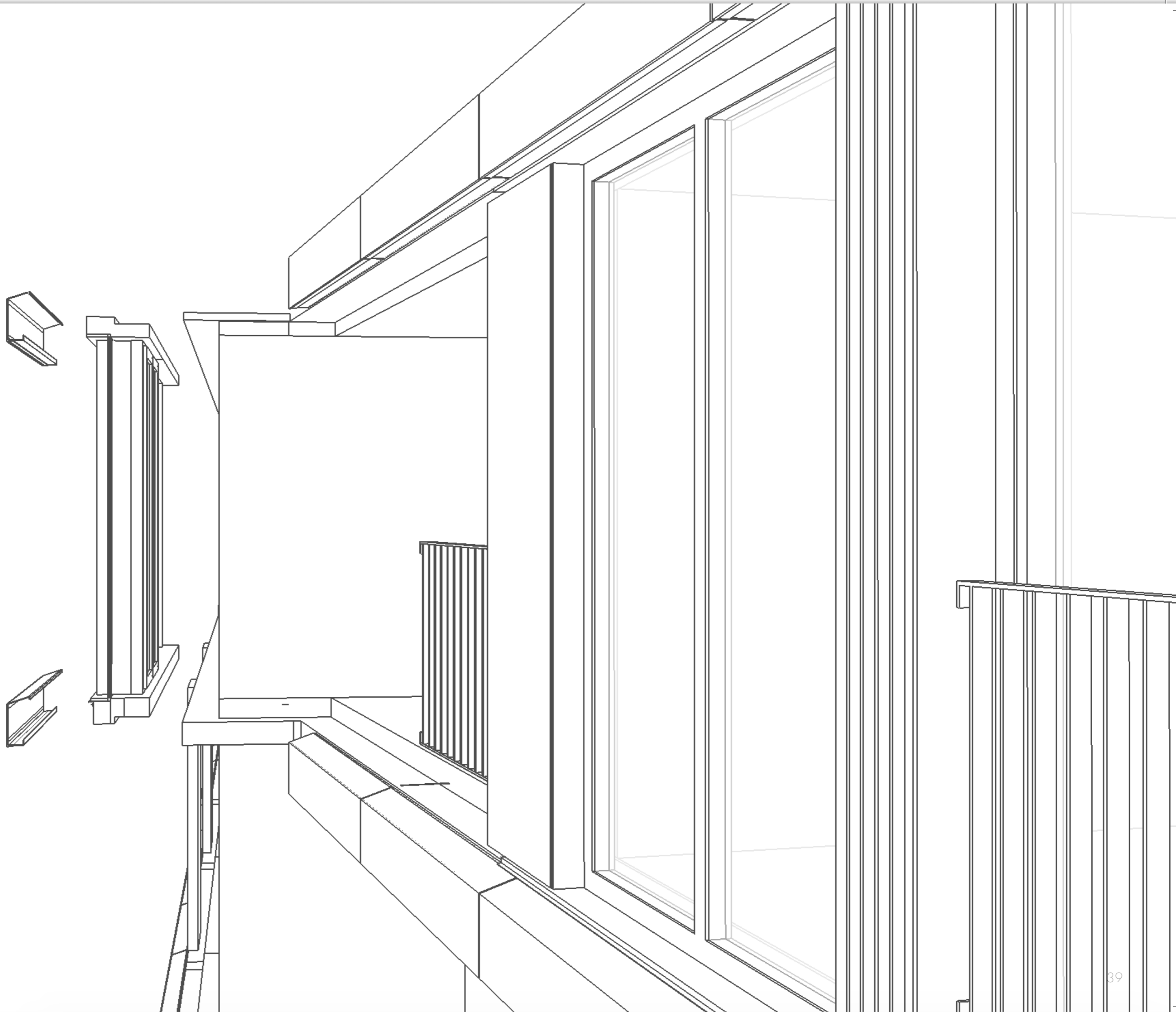


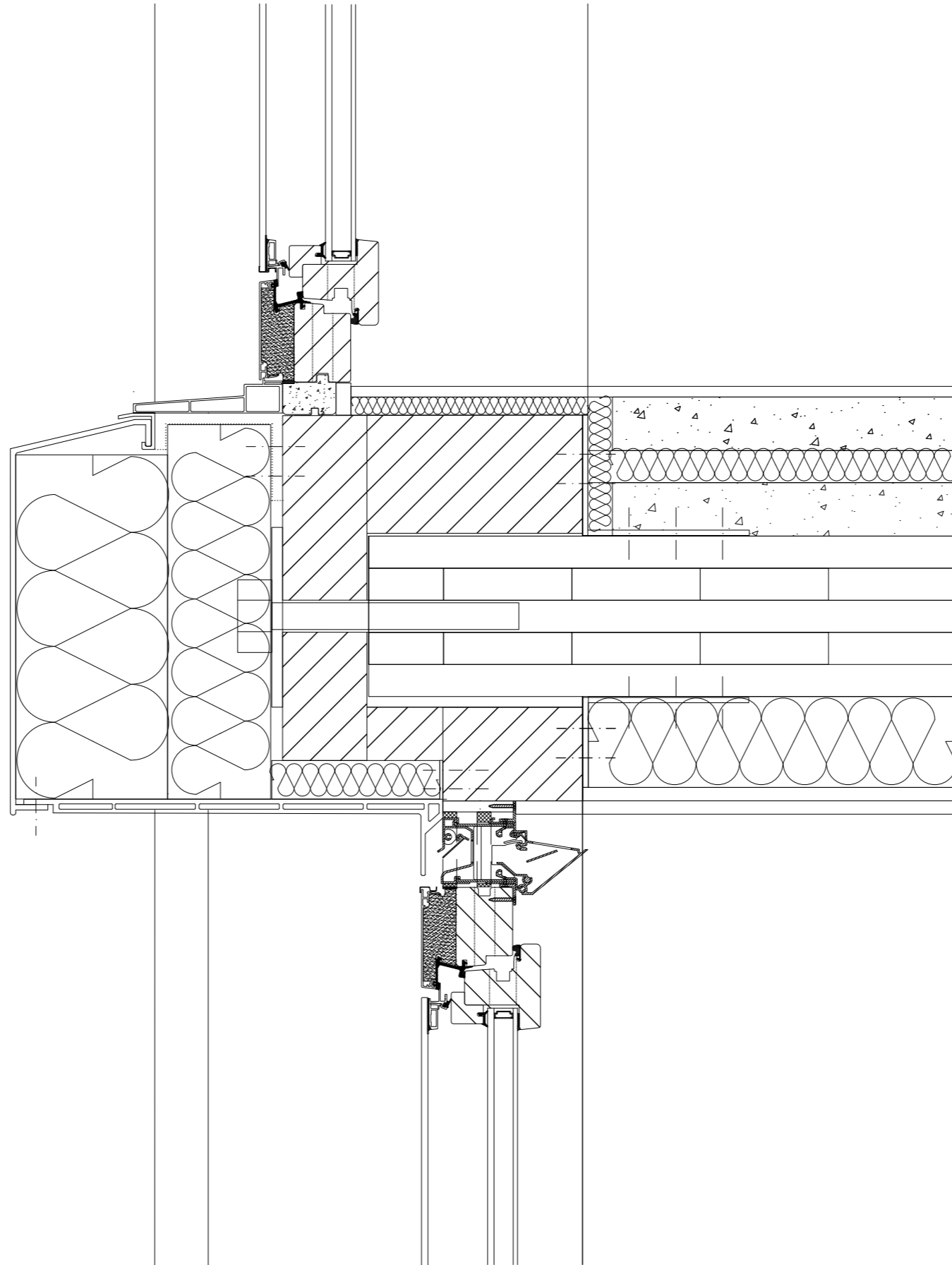


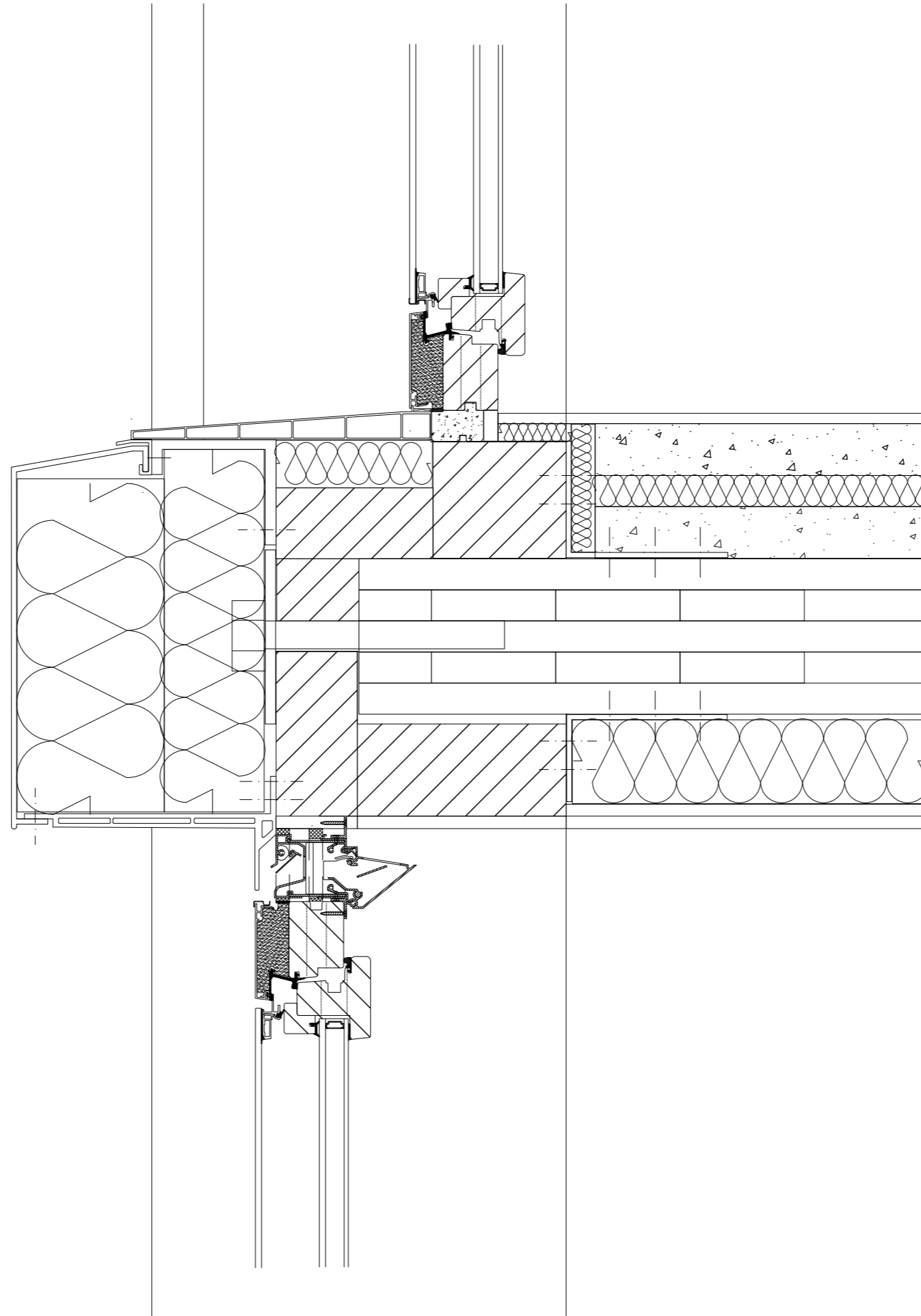


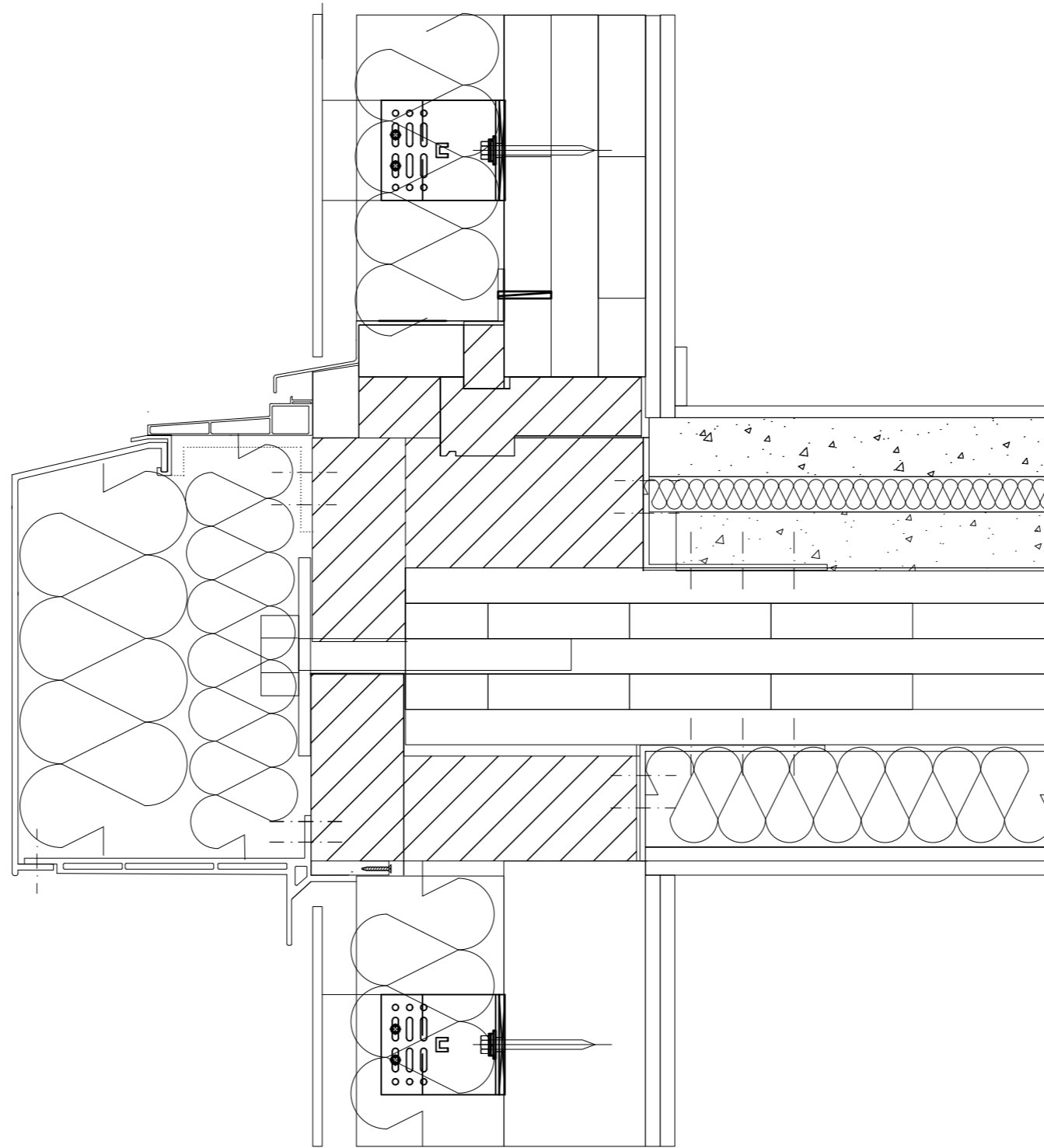


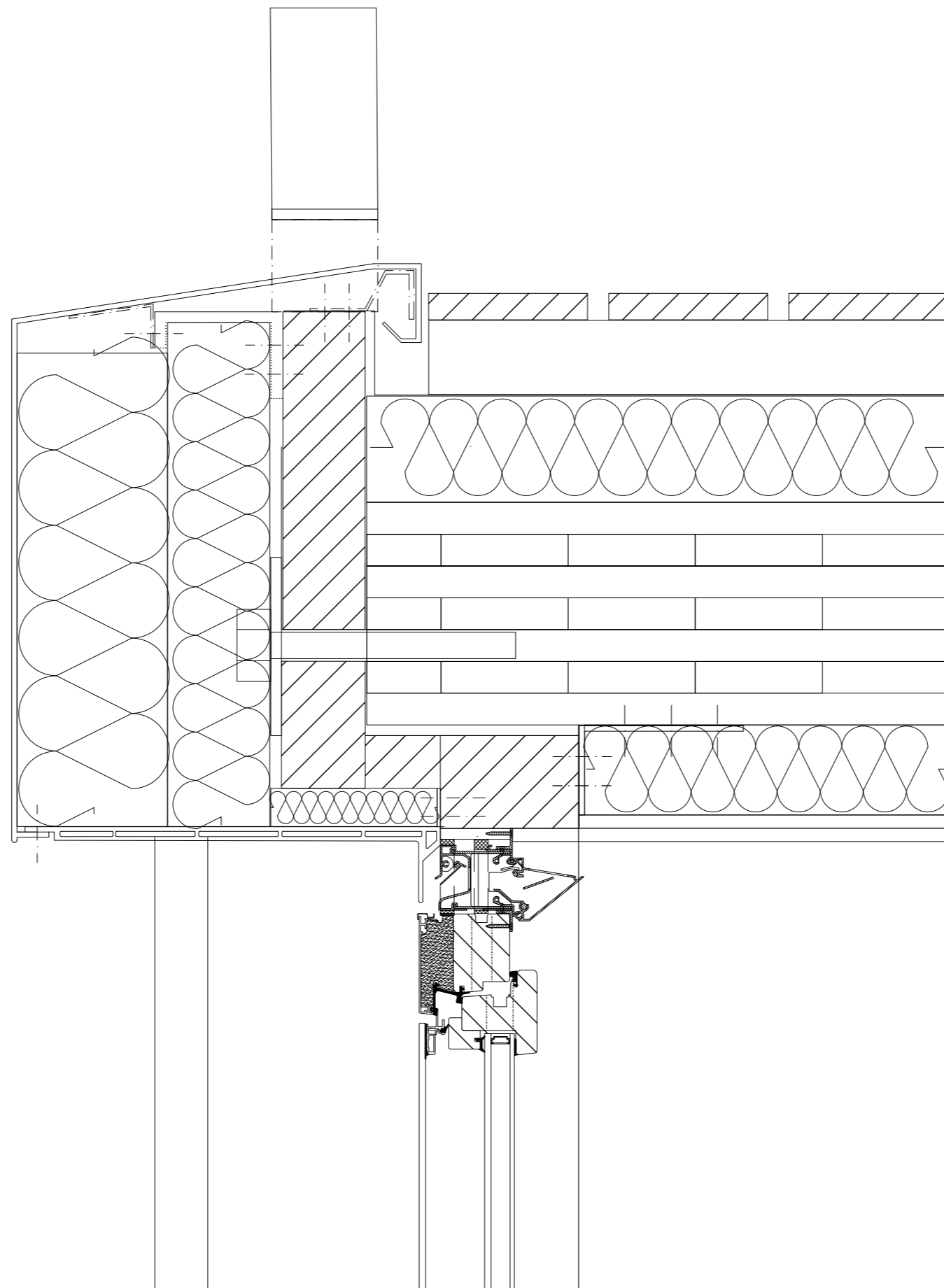
FACADE ASSEMBLY
1:5







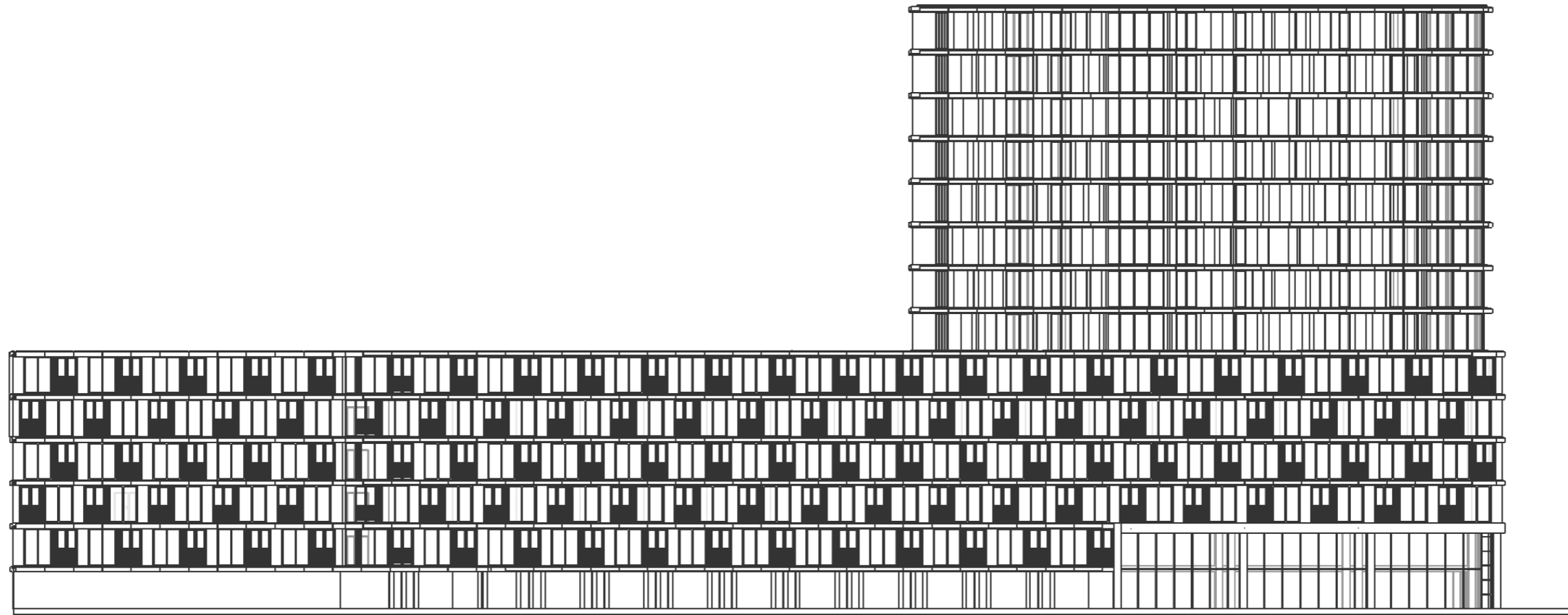




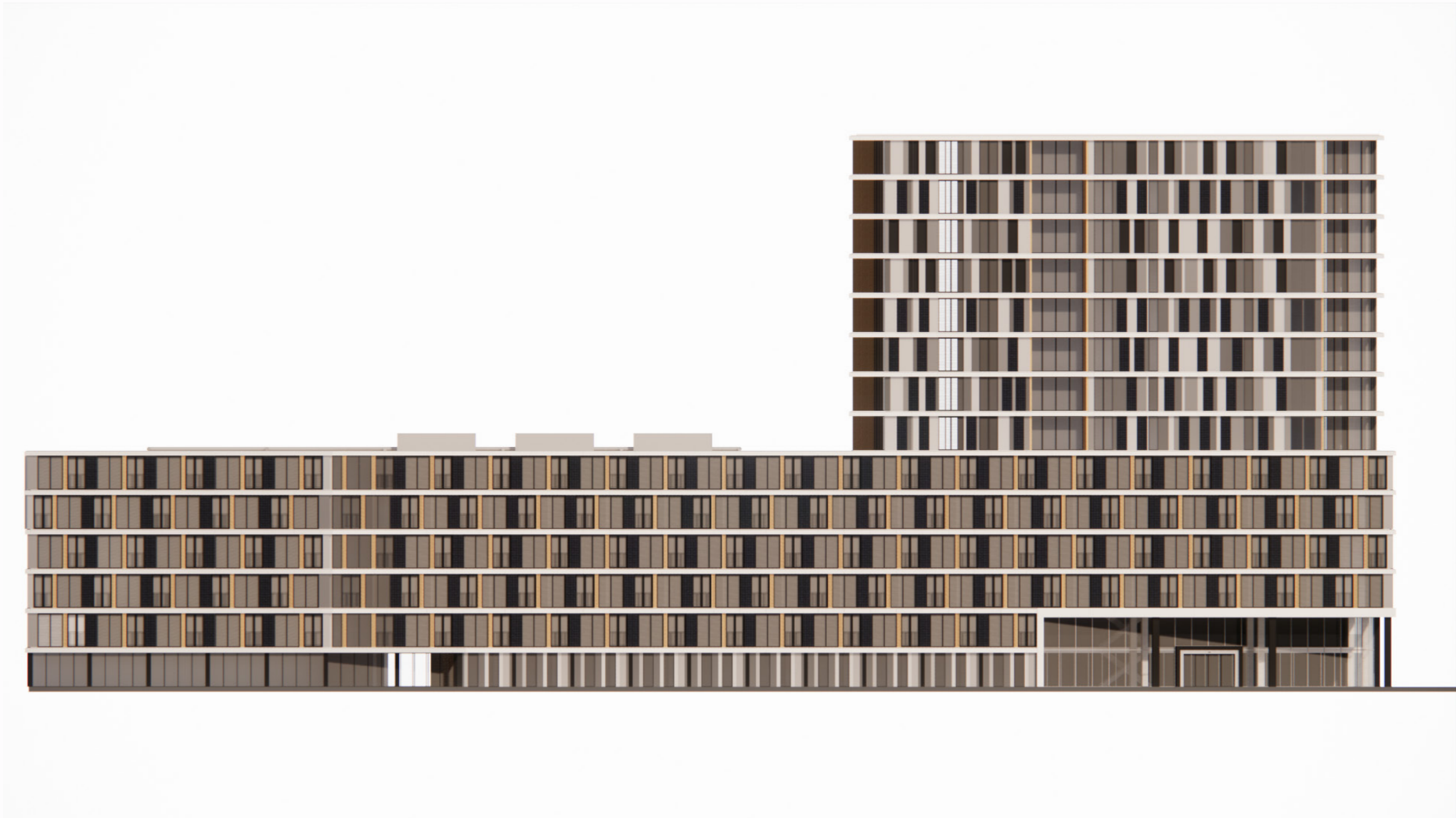


FACADE ELEVATION
IMPRESSION

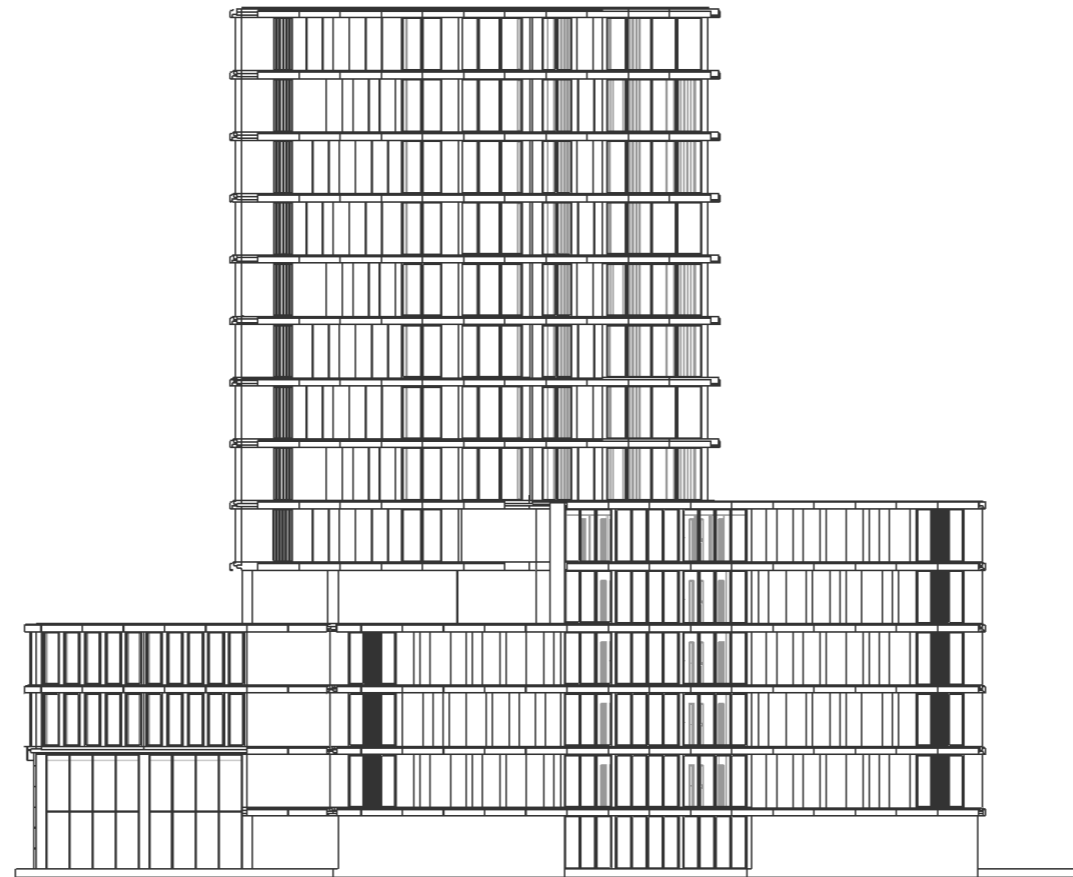




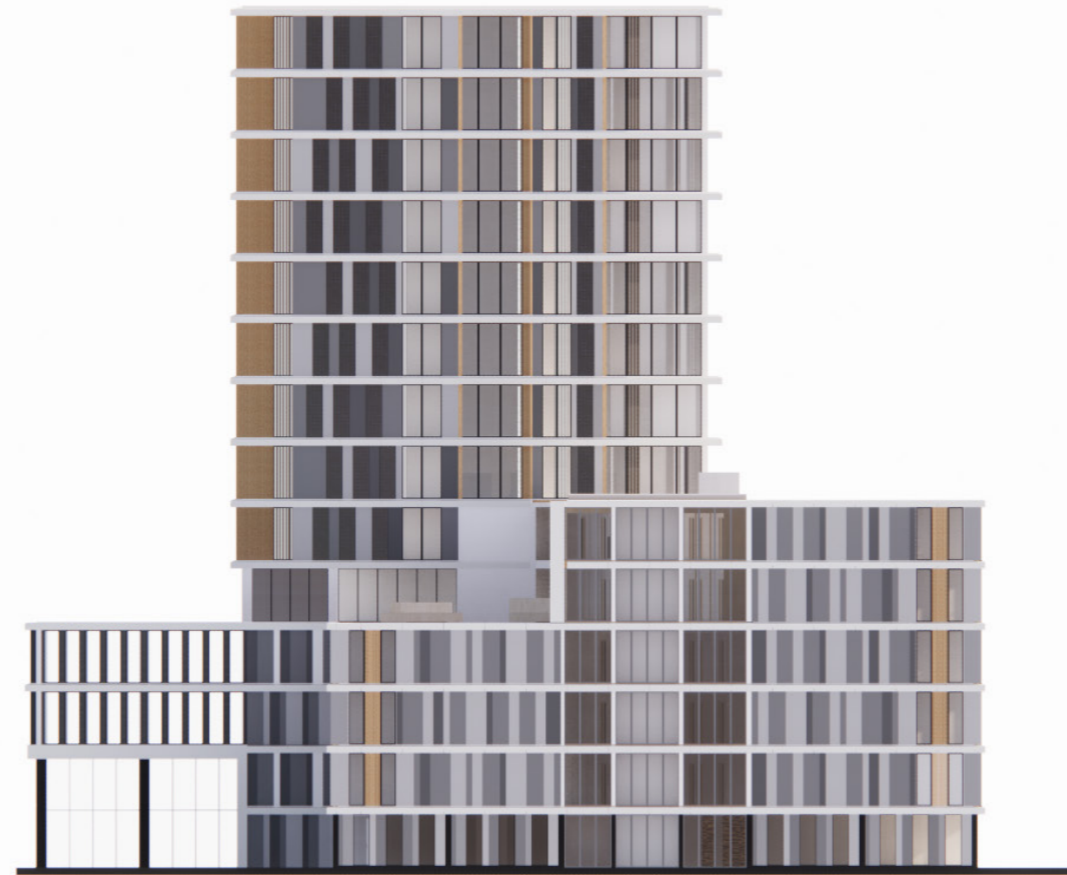
SOUTH FACADE ELEVATION
1:400



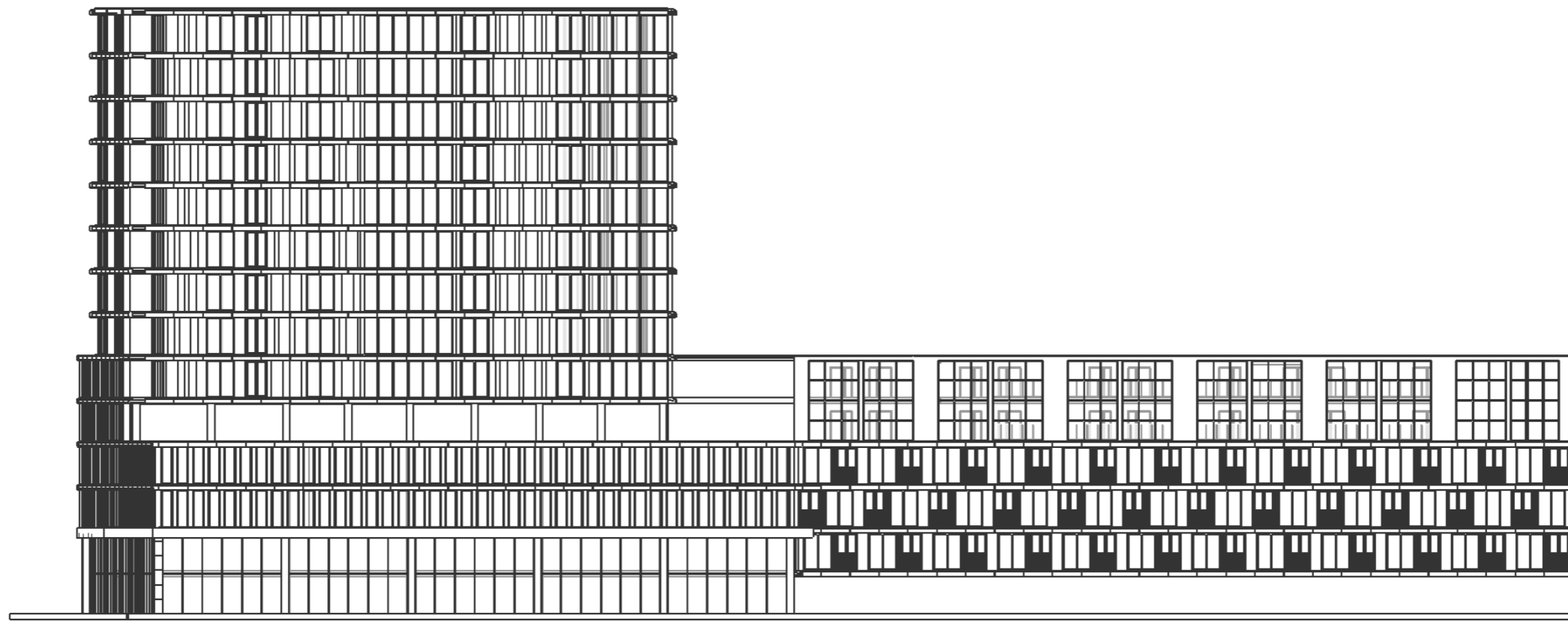
SOUTH FACADE ELEVATION
1:400



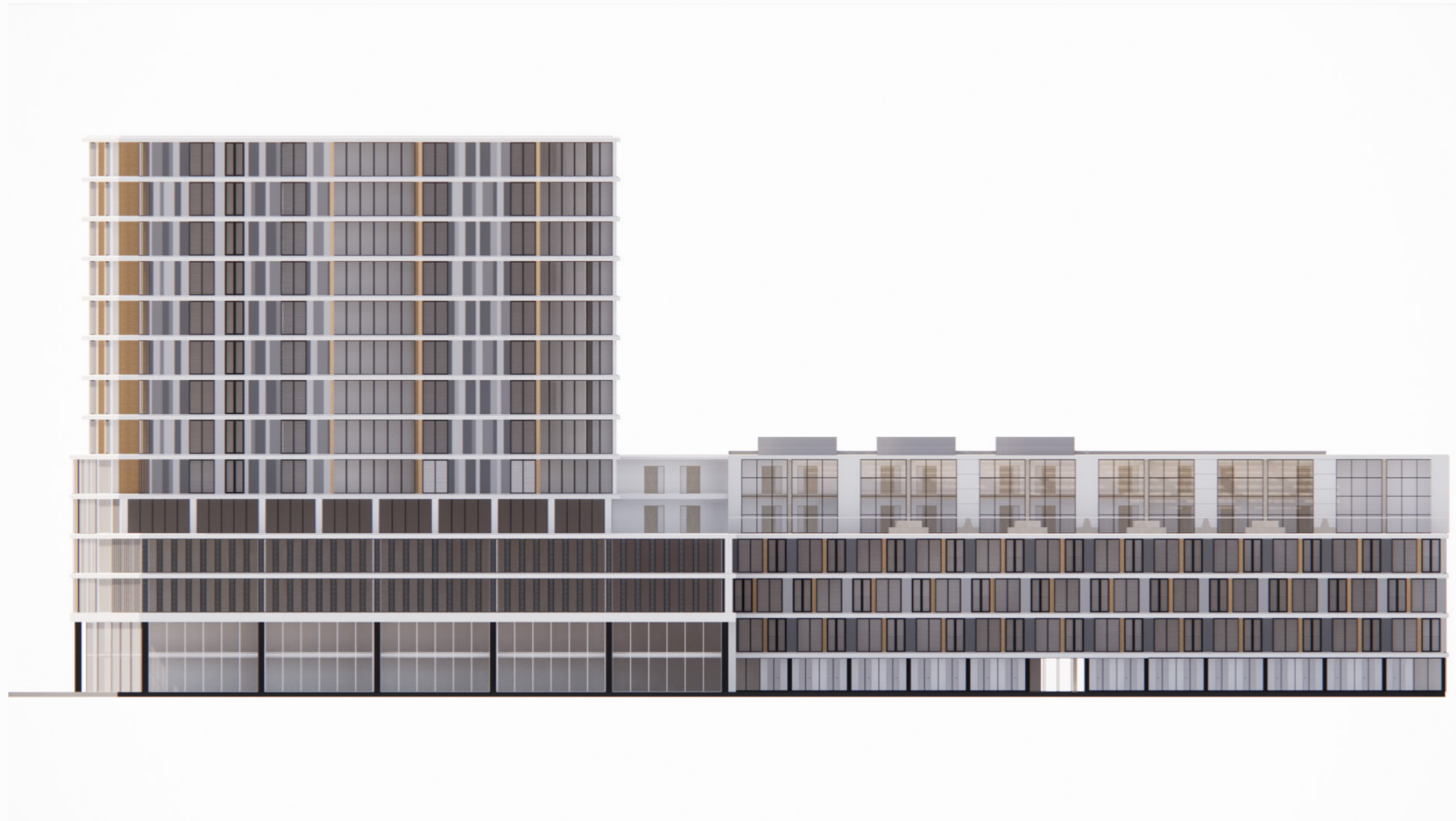
WEST FACADE ELEVATION
1:400



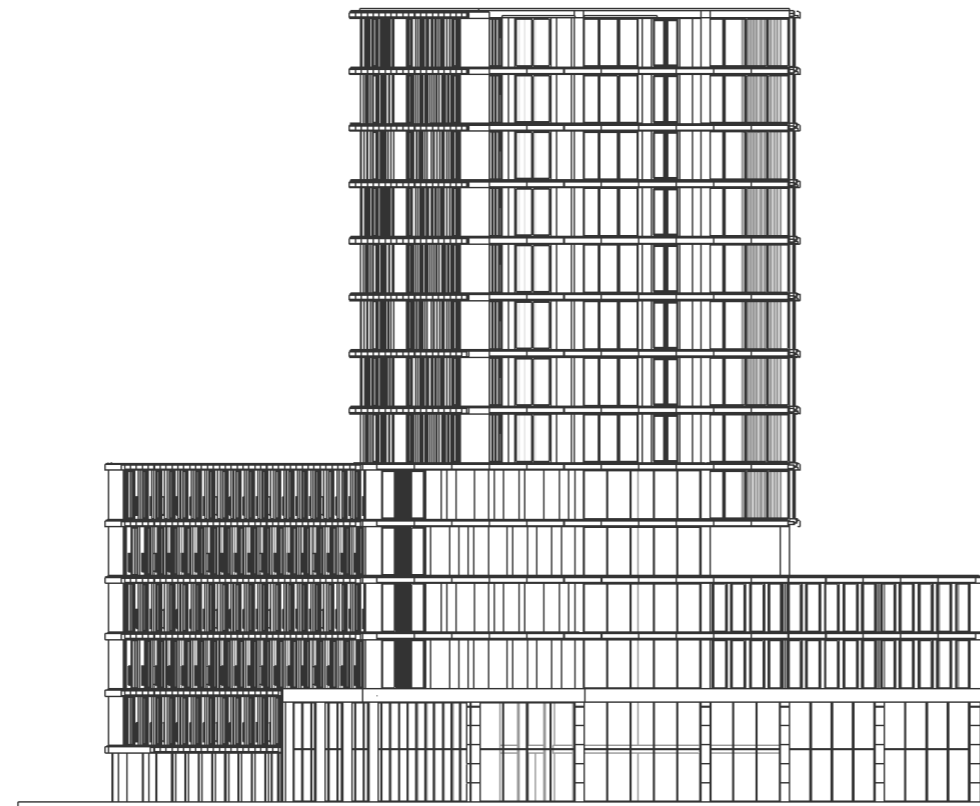
WEST FACADE ELEVATION
1:400



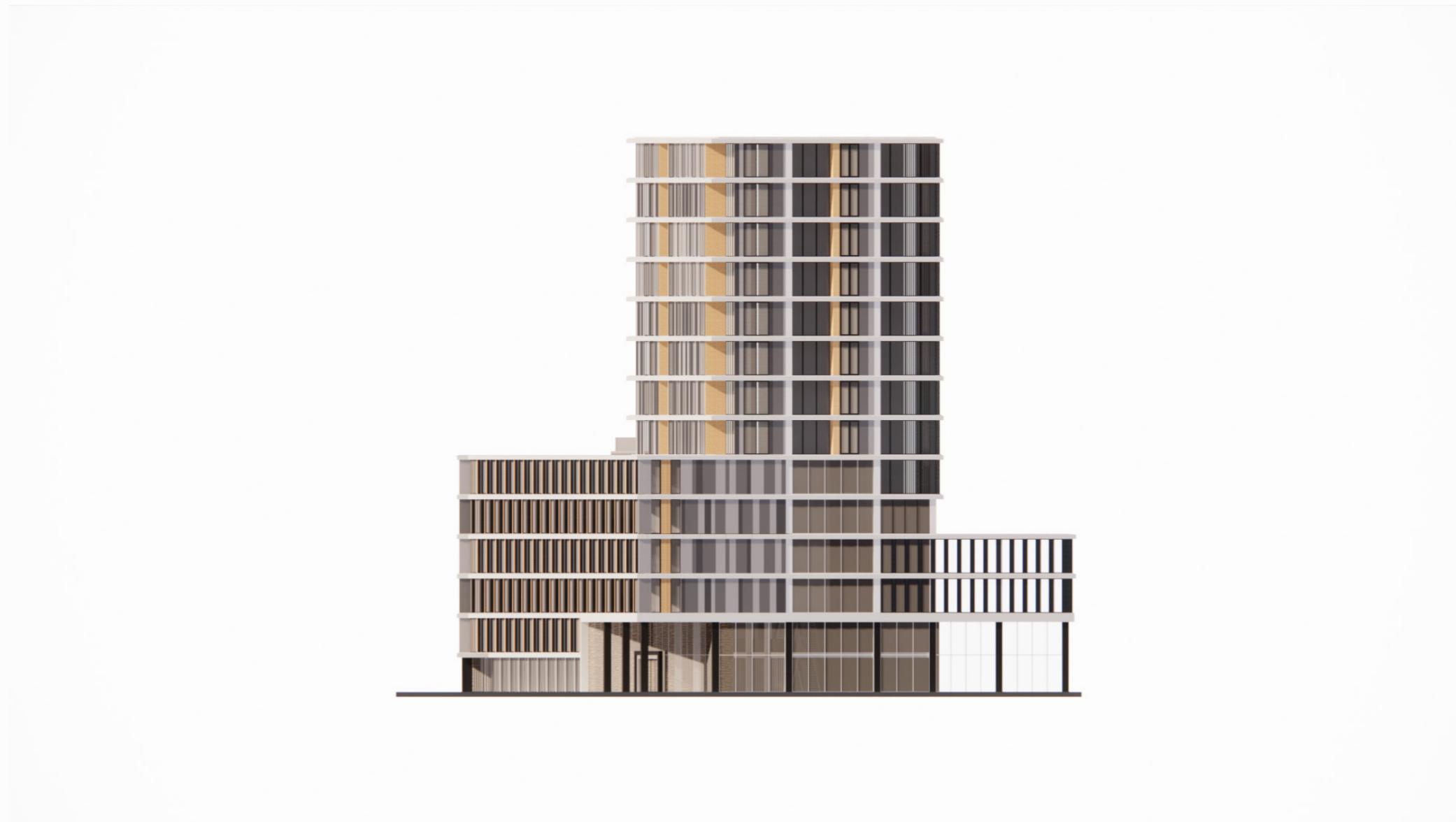
NORTH FACADE ELEVATION
1:400



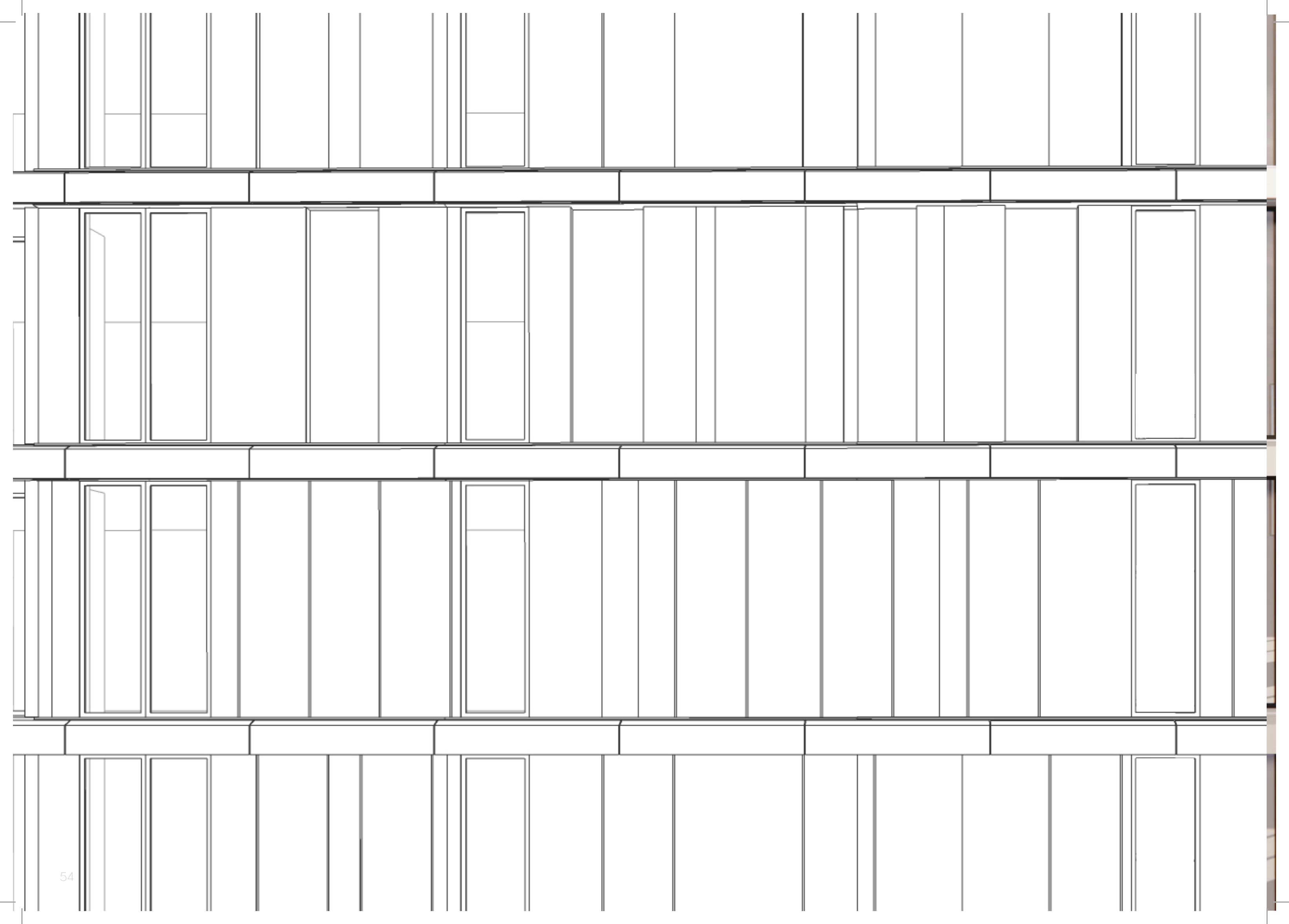
NORTH FACADE ELEVATION
1:400

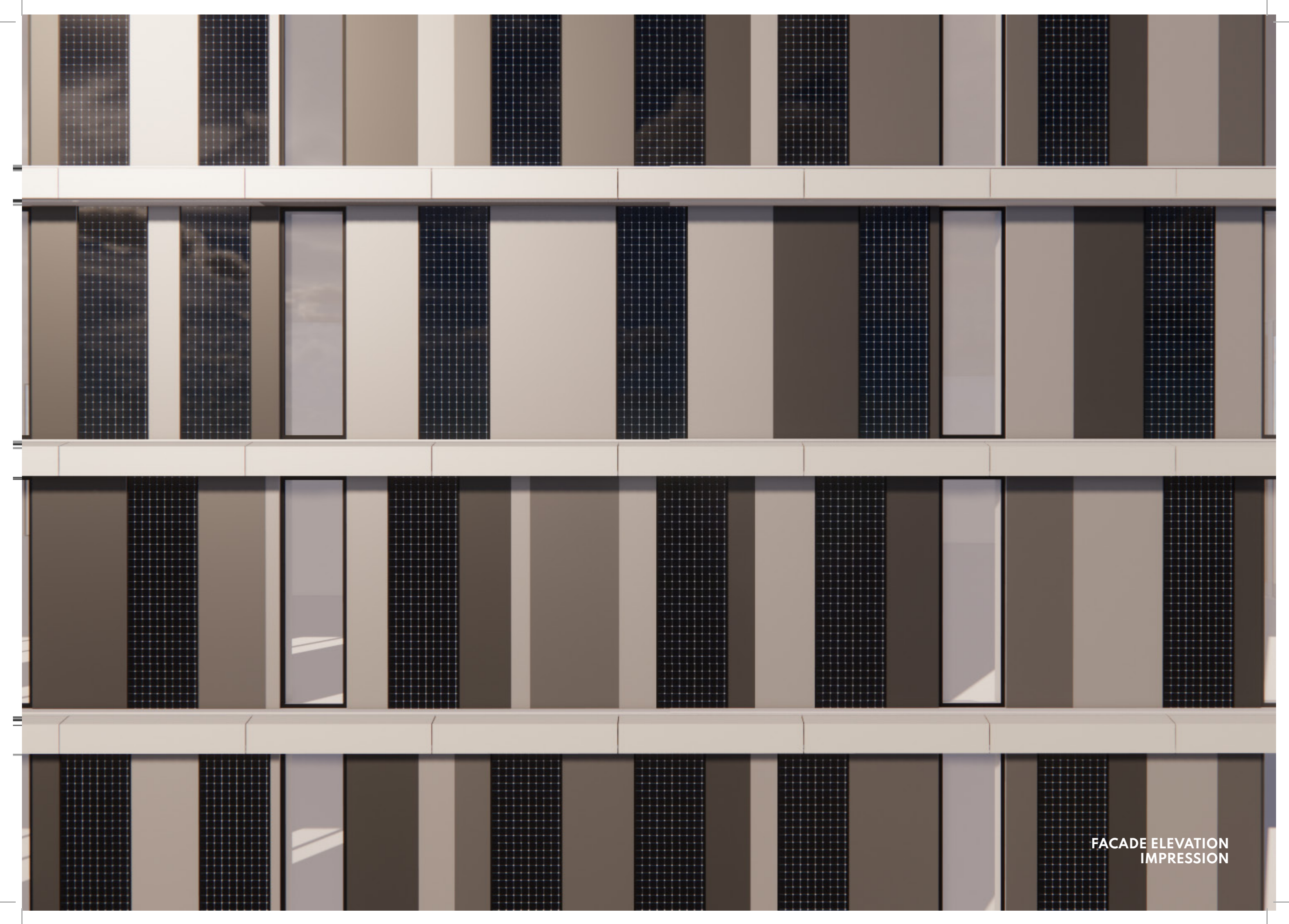


EAST FACADE ELEVATION
1:400



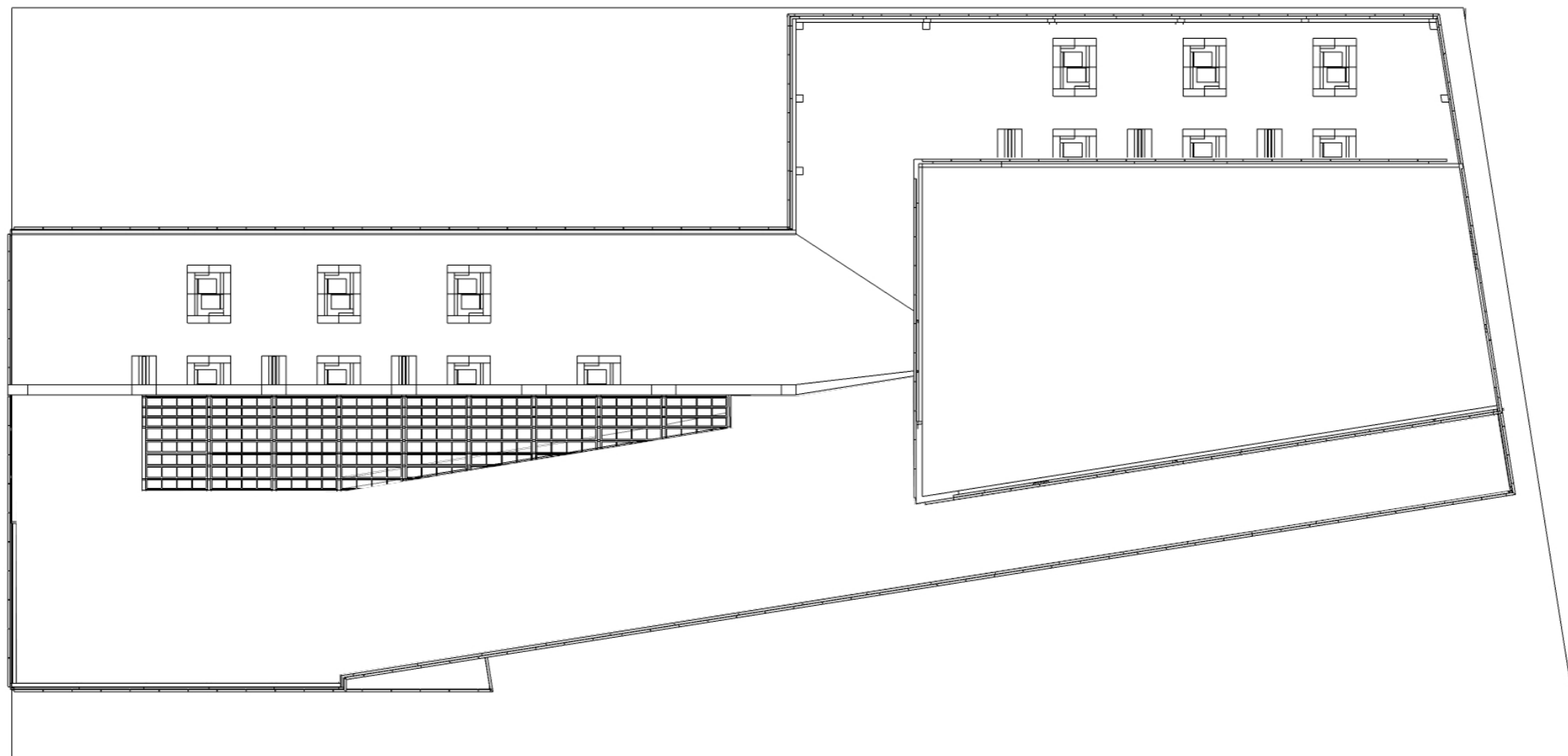
EAST FACADE ELEVATION
1:400

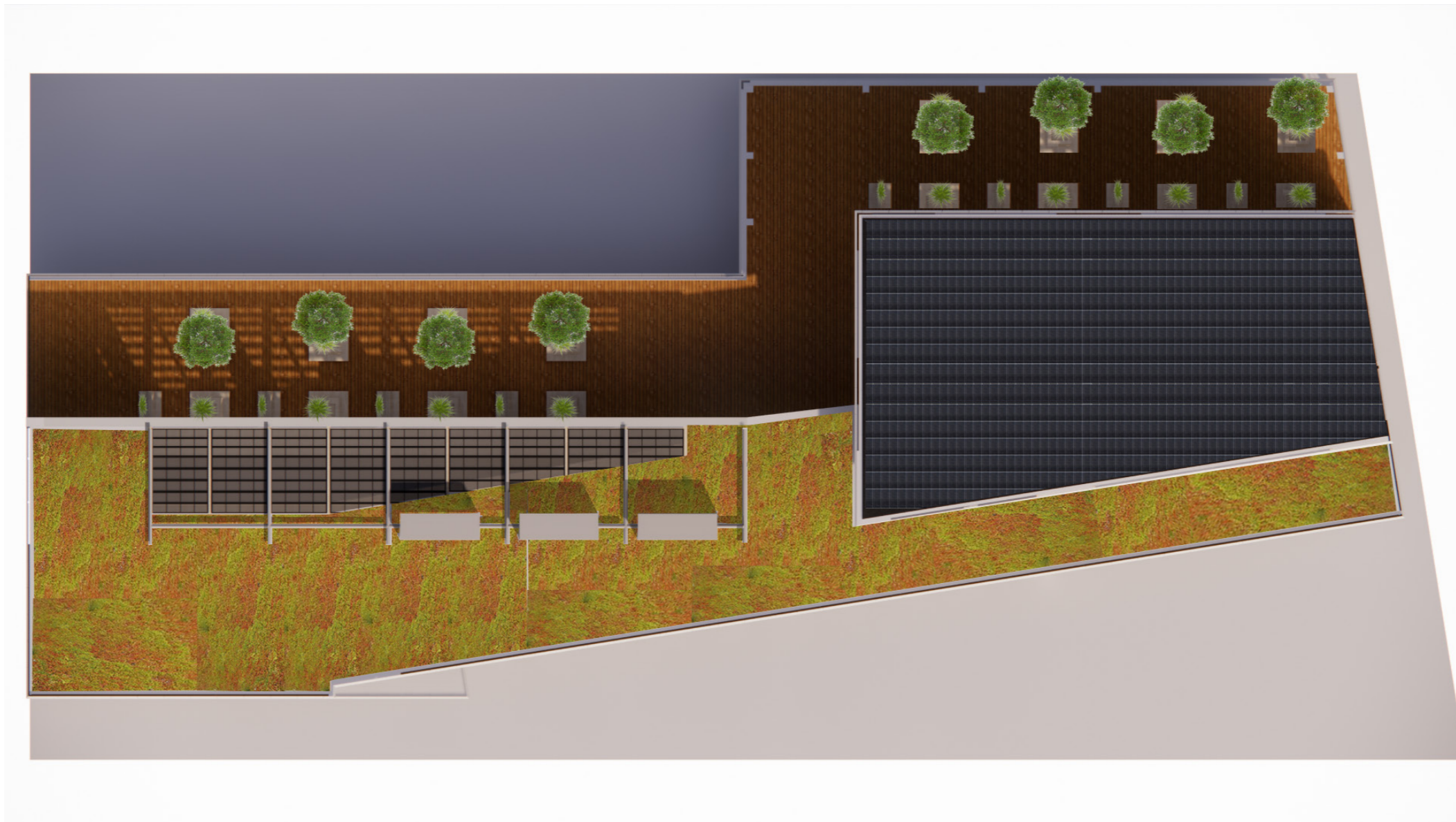




FACADE ELEVATION
IMPRESSION

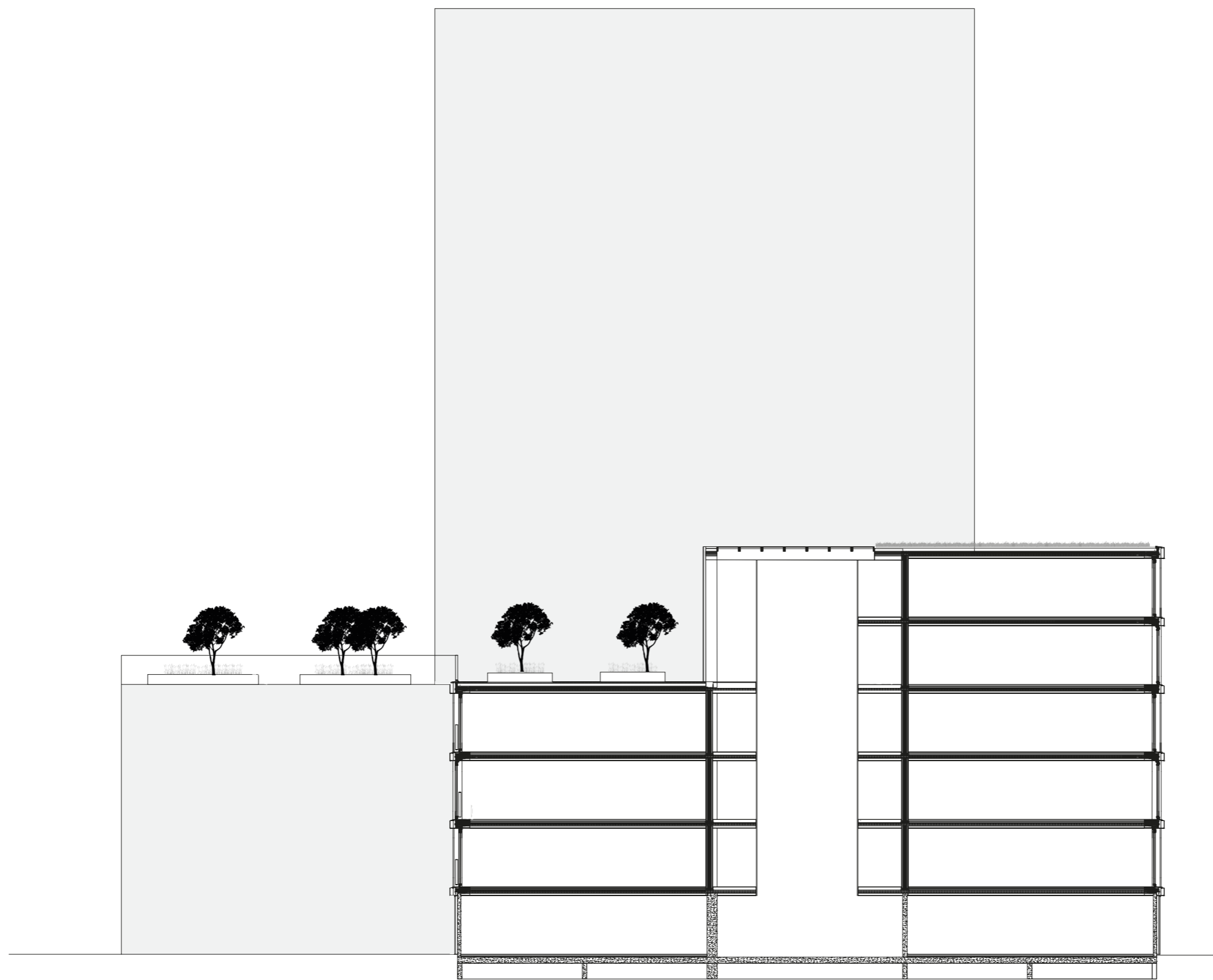
PRINCIPAL DRAWINGS

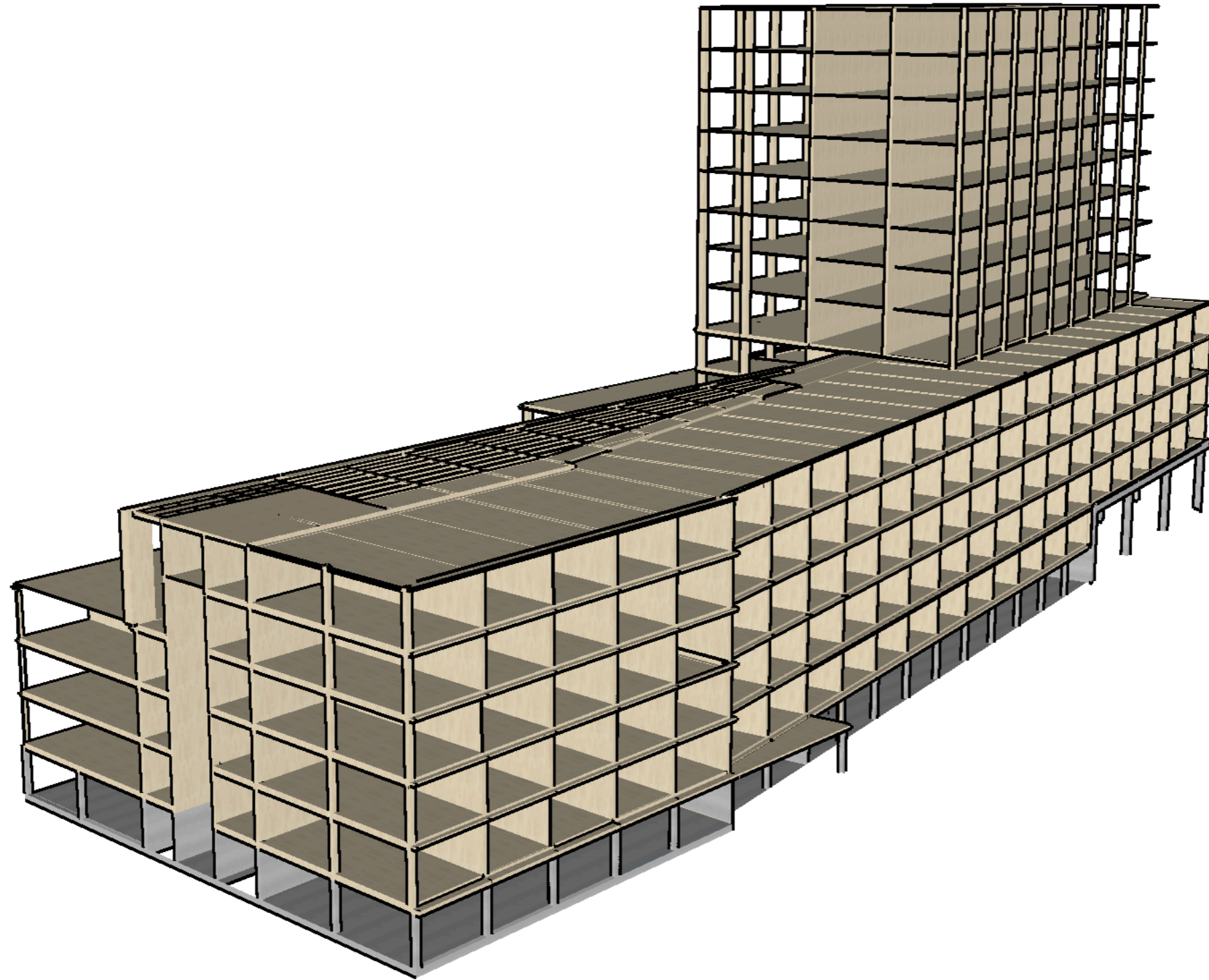




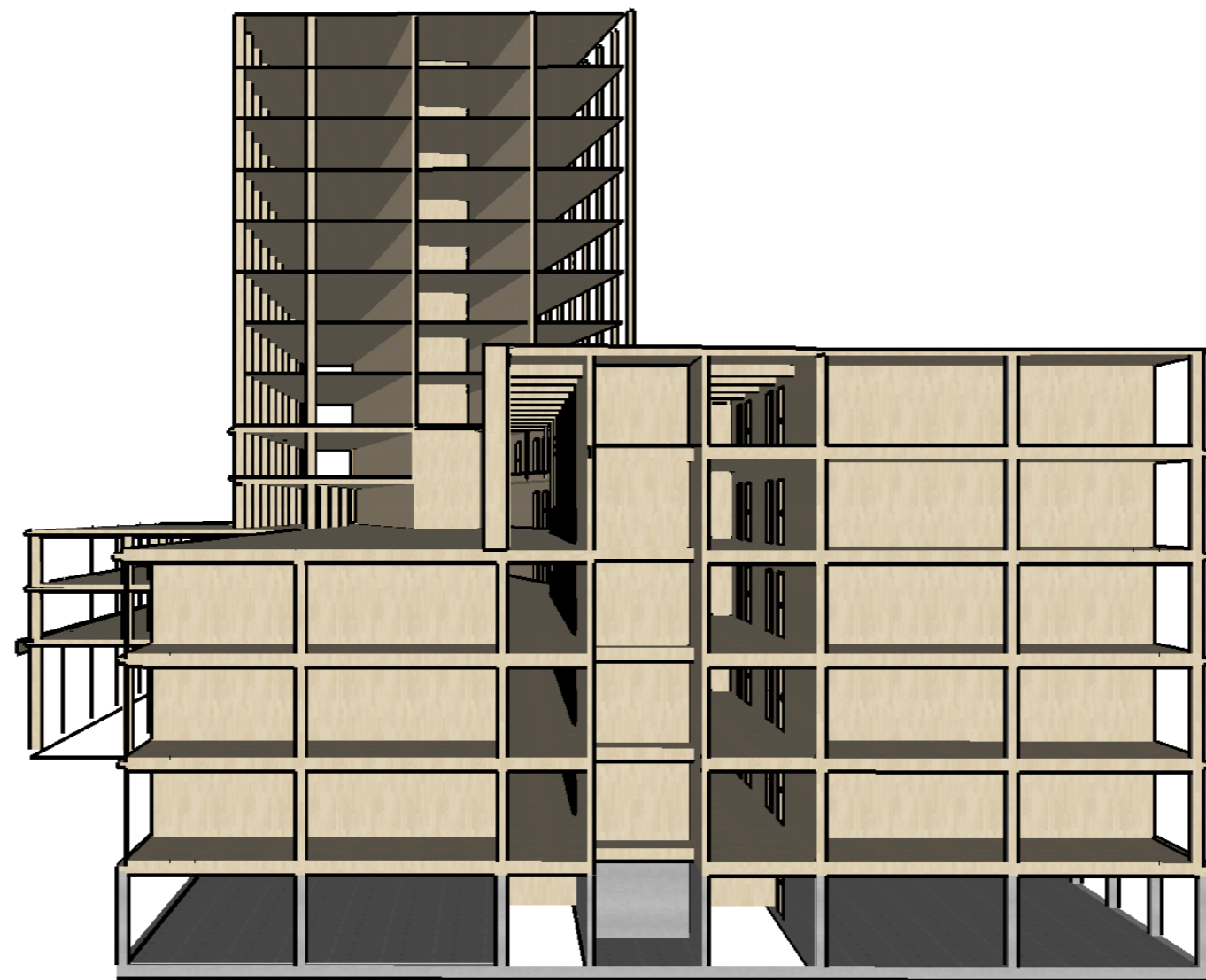


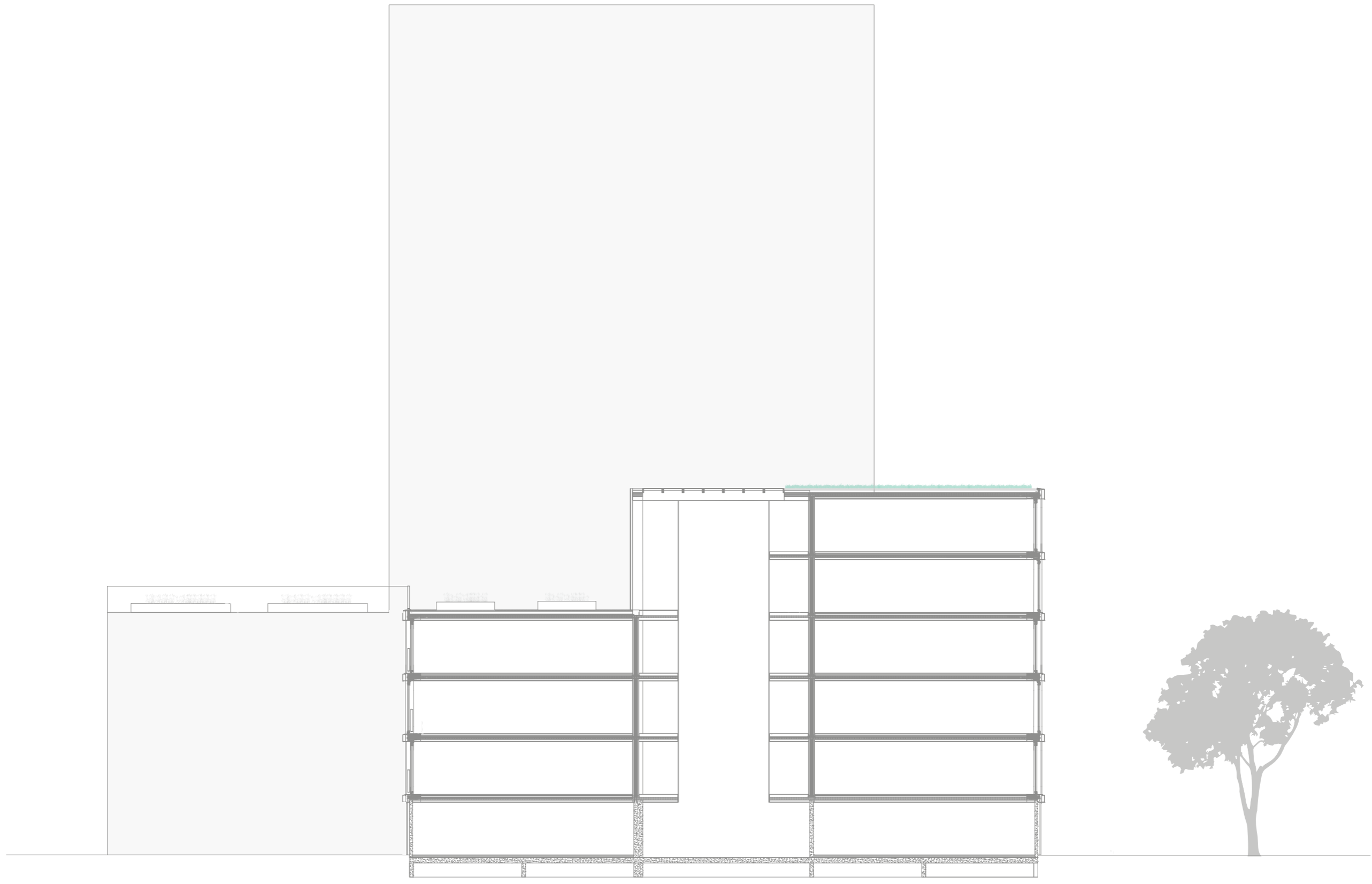
ROOF GARDEN
IMPRESSION



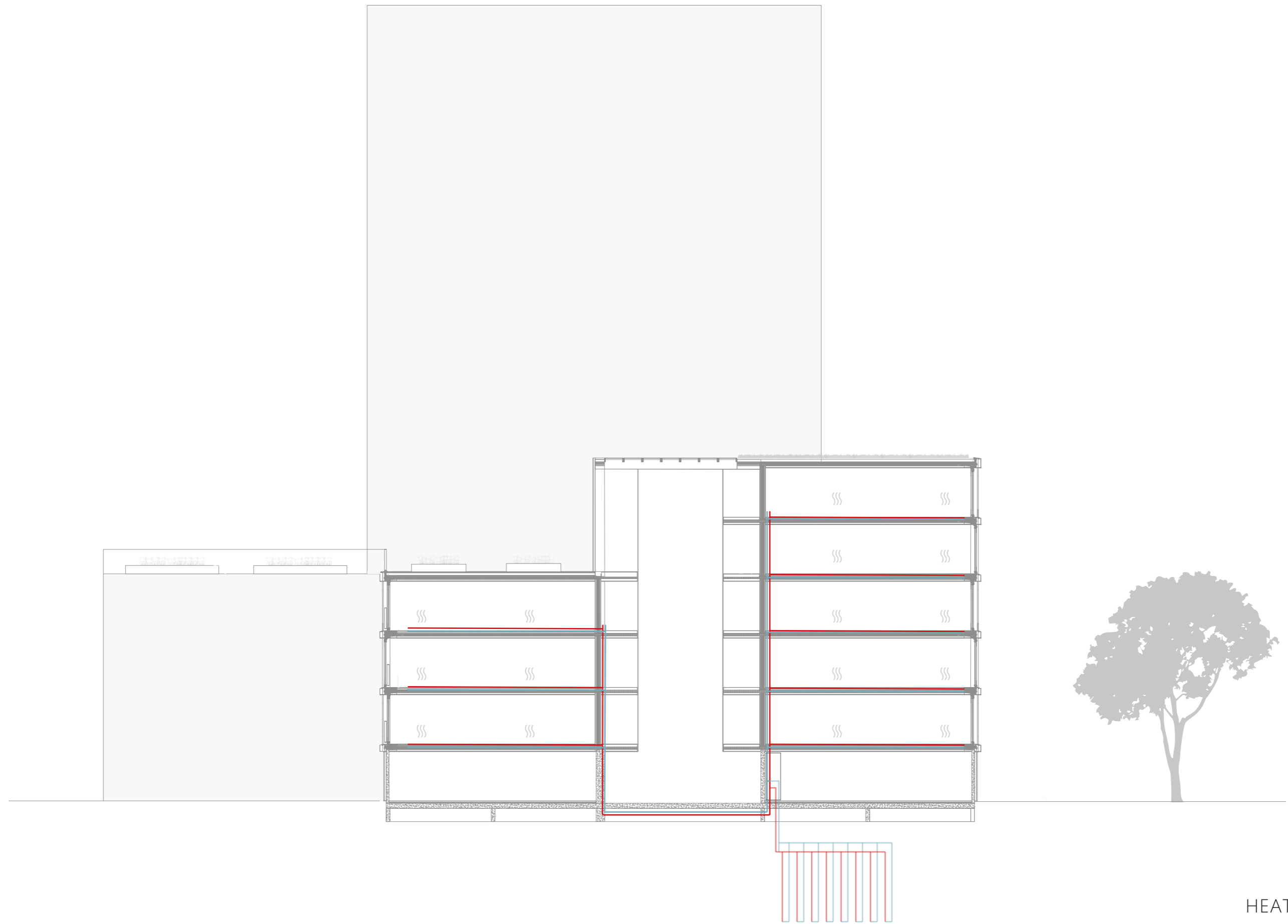


CLT CONSTRUCTION

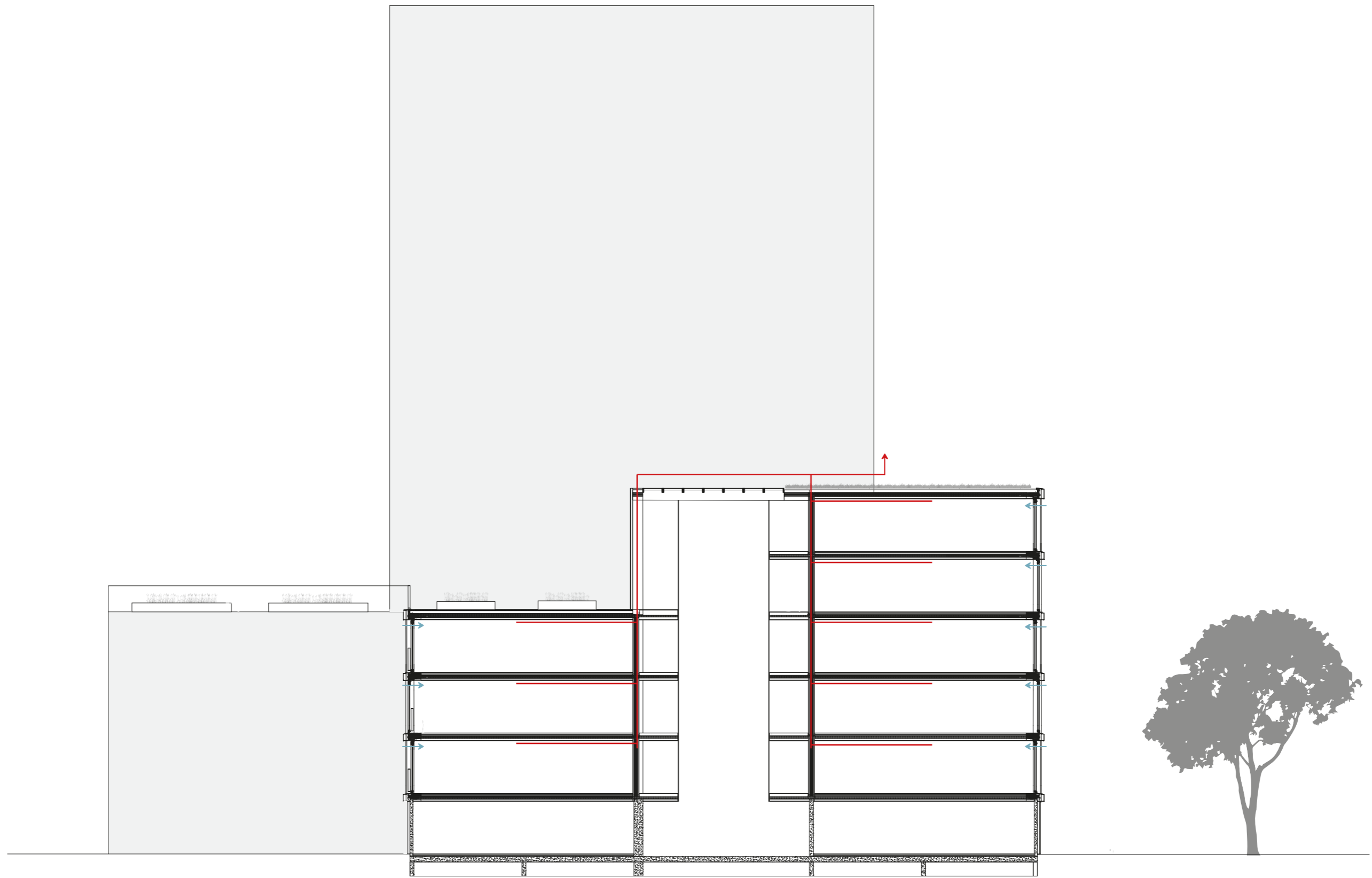




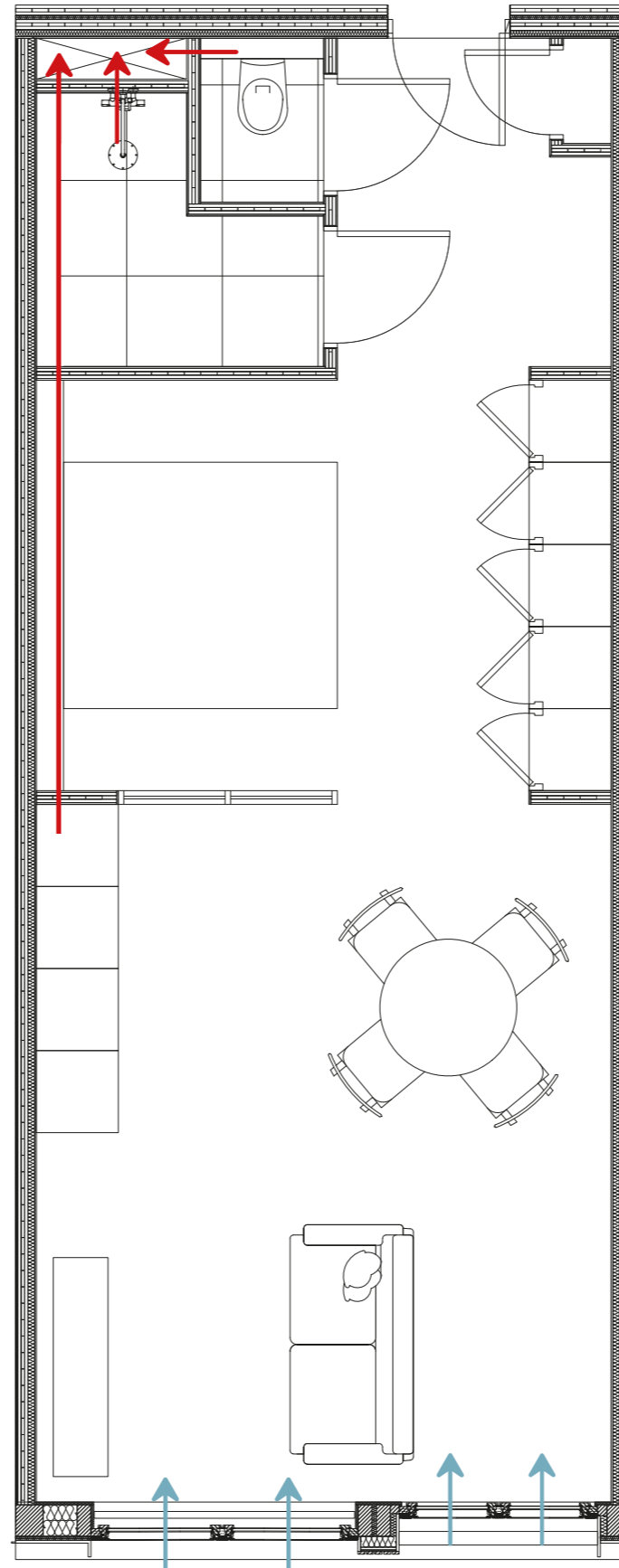
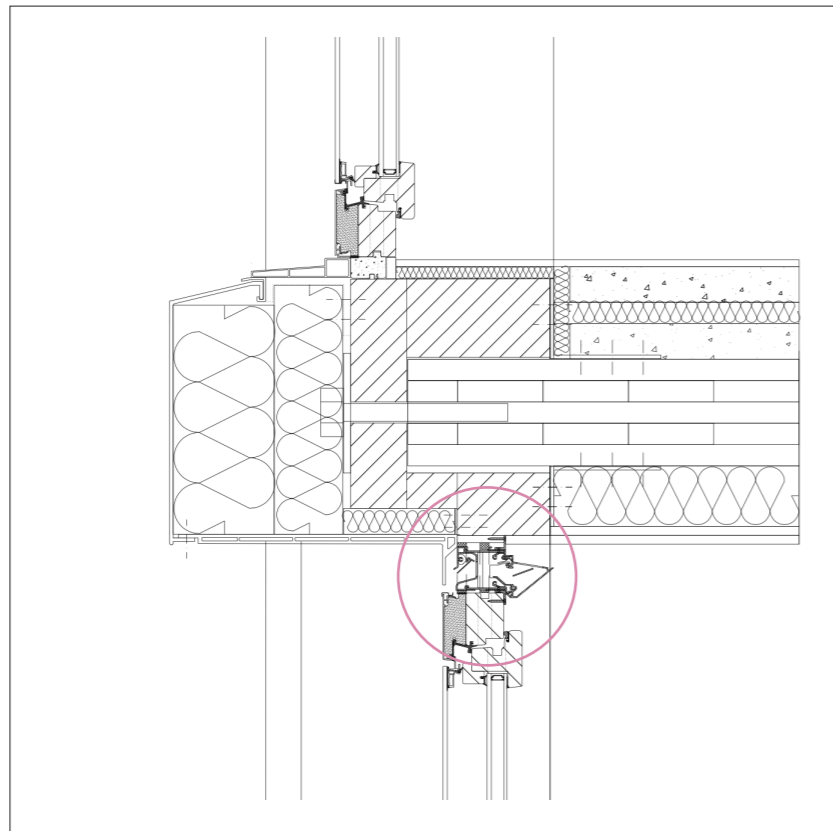
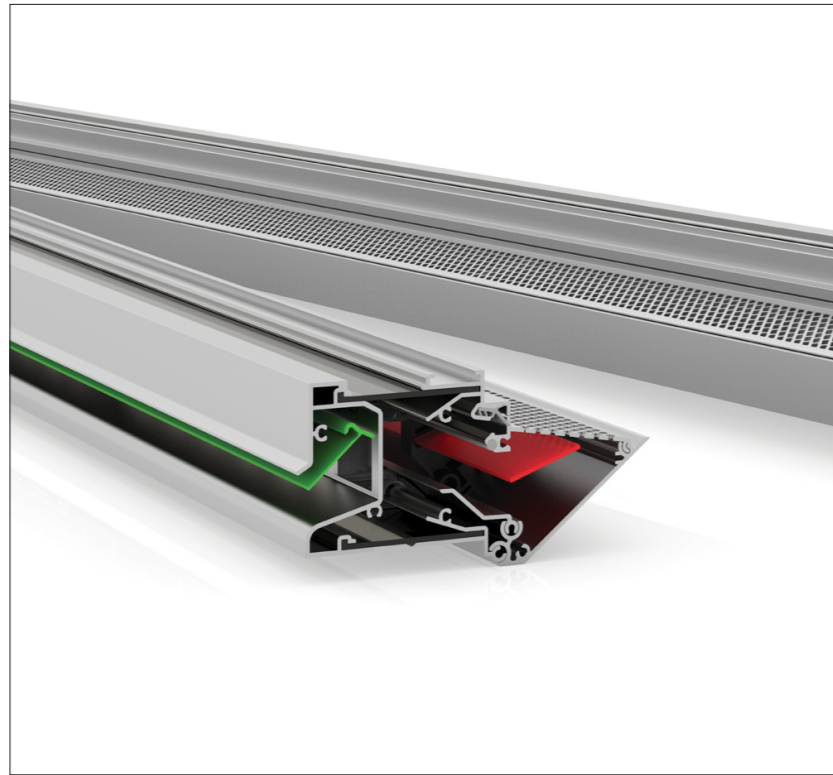
GREEN ROOF
1:200



HEATING PUMP
1:200
65



VENTILATION
1:200



TOILET 7dm³/s
 BATHROOM 14 dm³/s
 KITCHEN 21 dm³/s

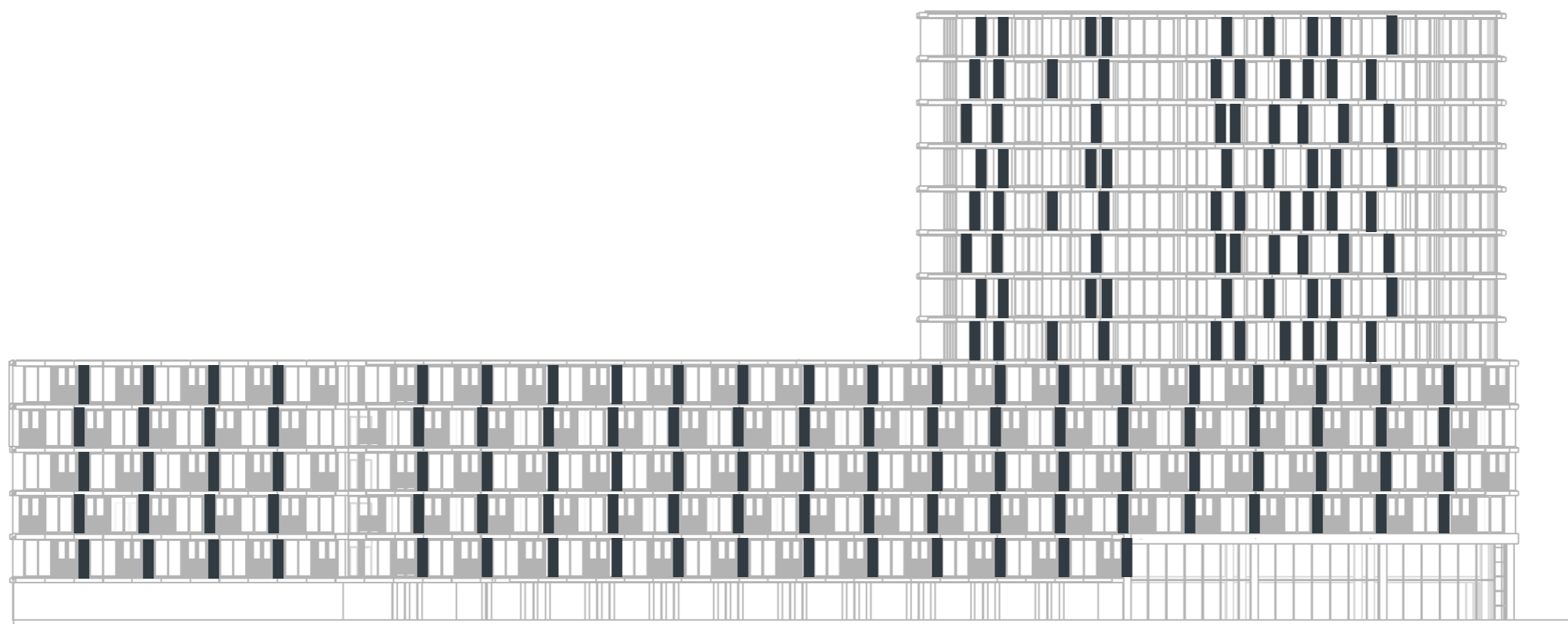
42 dm³/s

MINIMUM
 46m² x 0,9 = 41,58 dm³/s

PREHEATED AIR

CLIMATOP 60 12dm³/s / m
 DOORWIDTH 3.5 meter

3.5 x 12 = 42 dm³/s



SOLAR PANELS
1:400



Solar Panels

Facade

Tower 110x
Studios 99x

Size

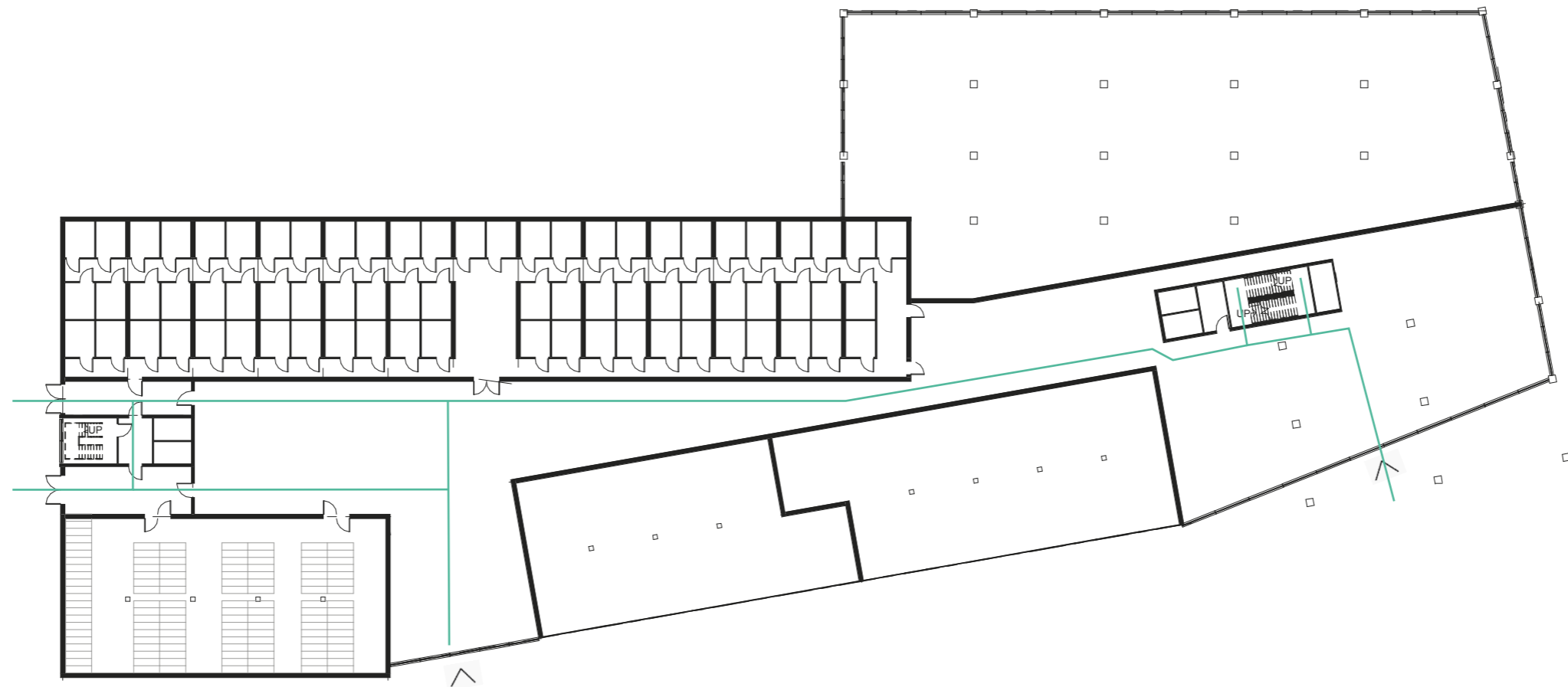
780x2600 = 2,028 m²
209 x 2,028 = 424 m²

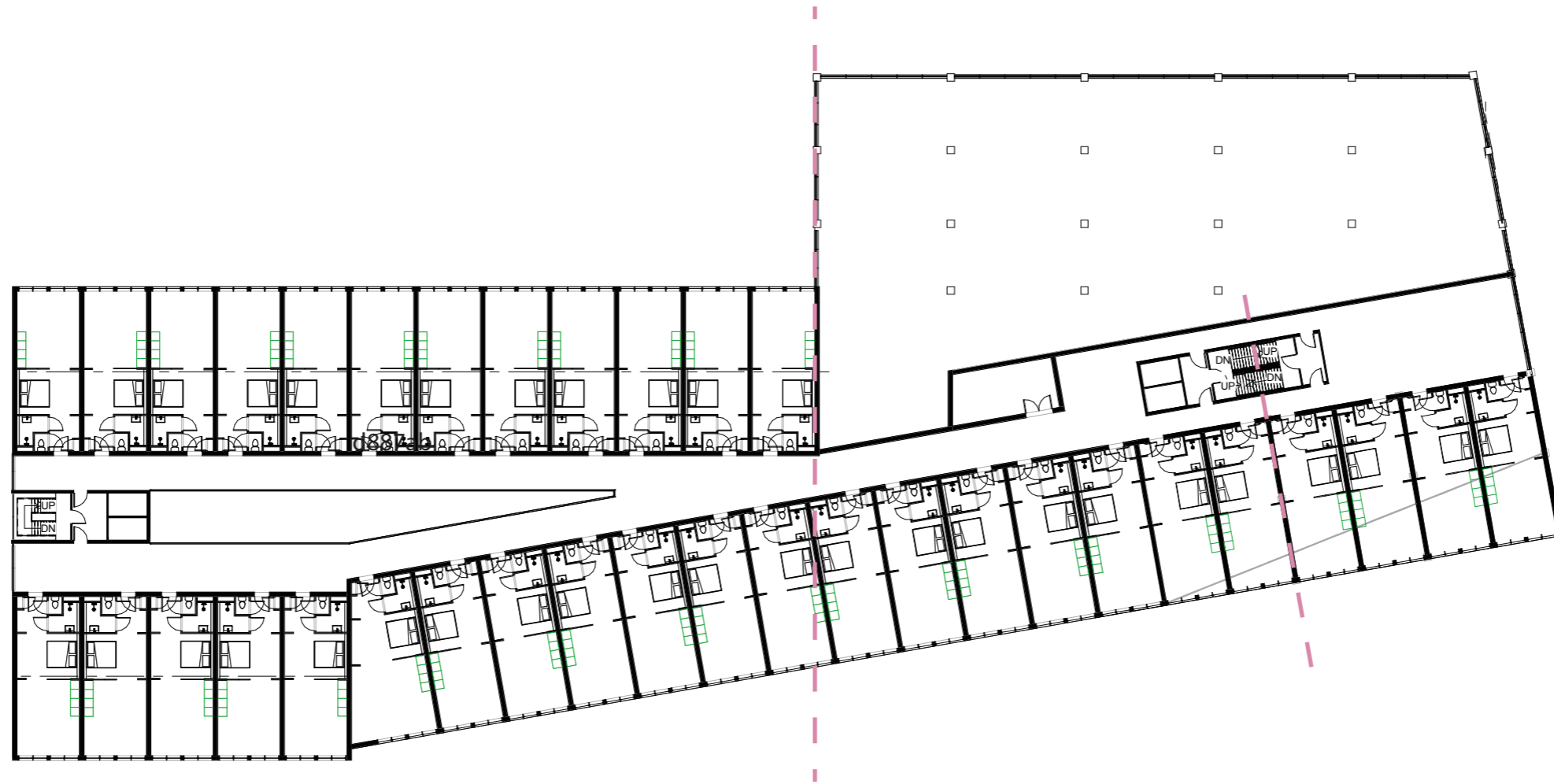
Roof

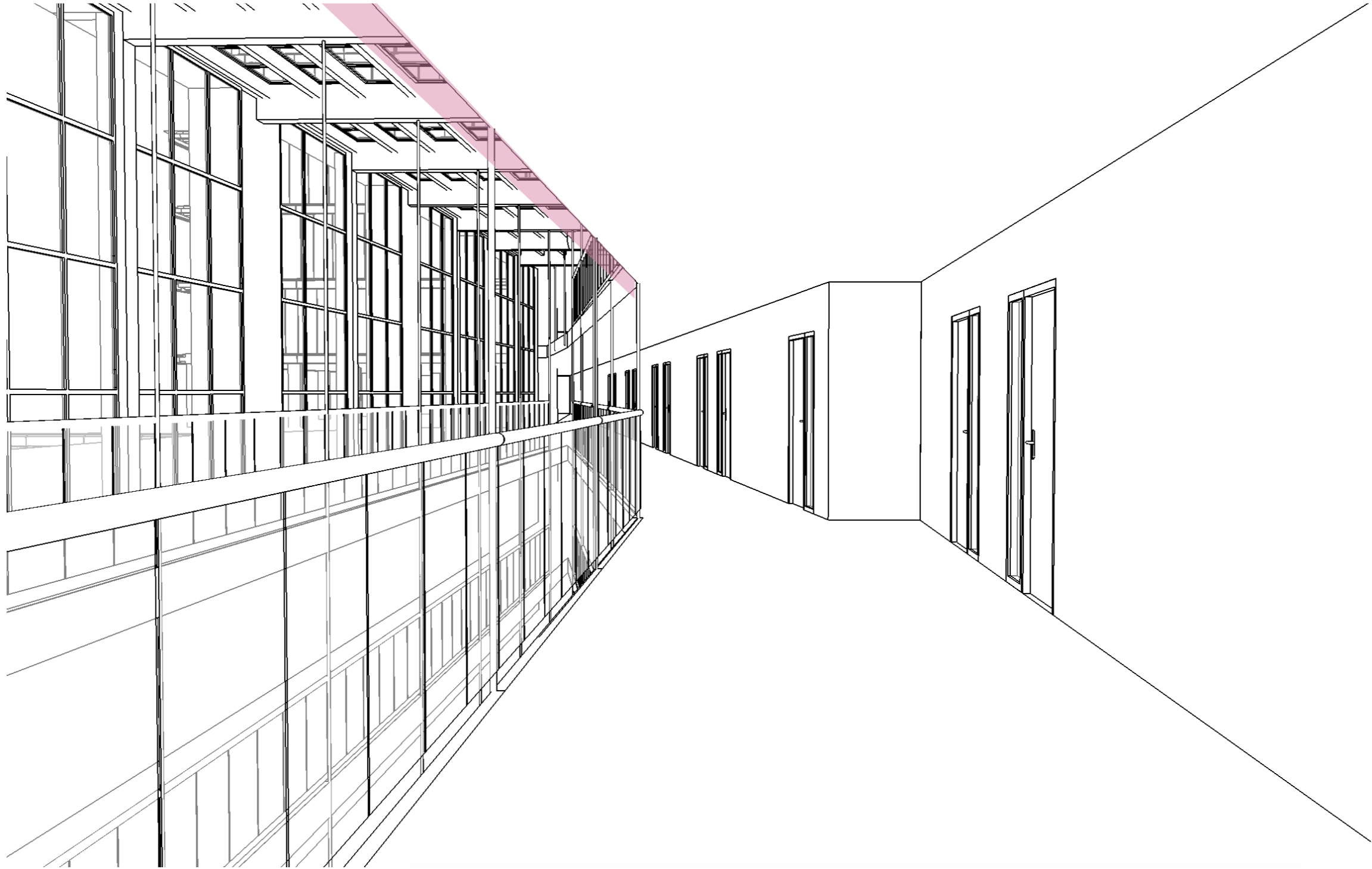
Tower 700 m²
Roof Window 300 m²

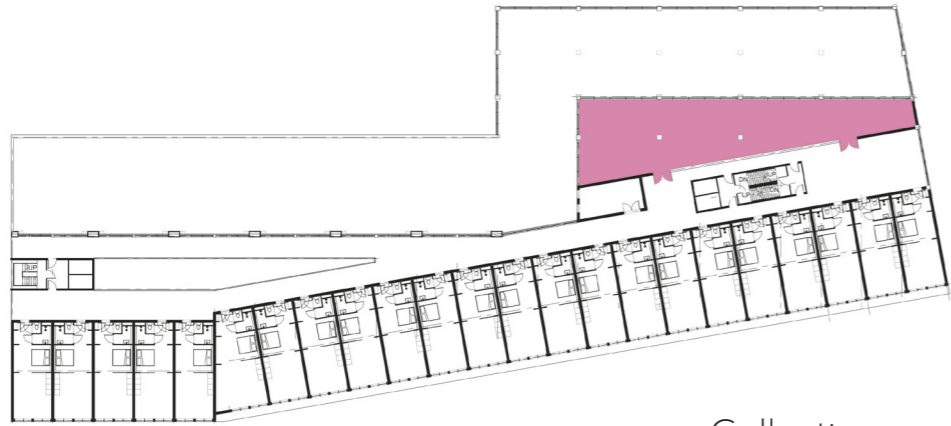
Totaal: 1424 m²
Opbrengst: 219.450 kWh/Jaar



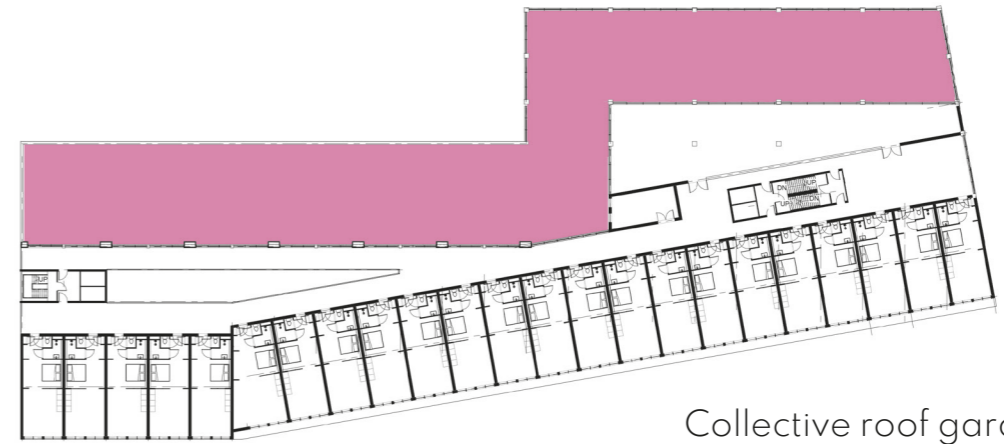




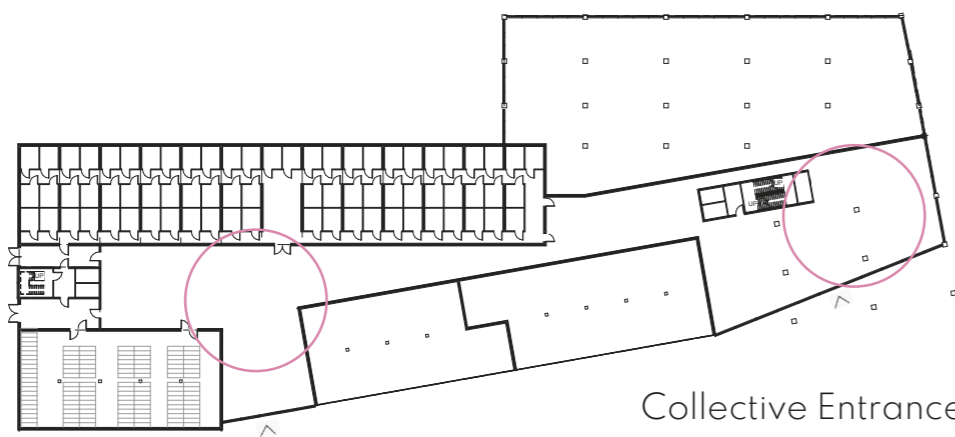




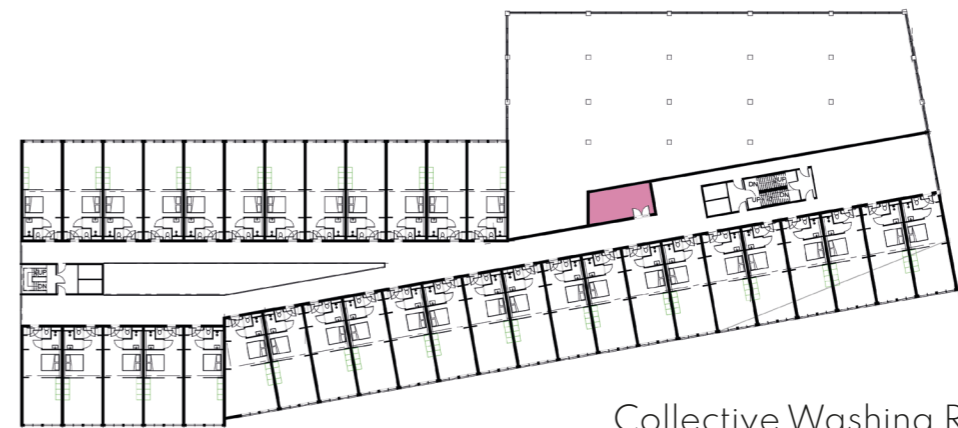
Collective space



Collective roof garden

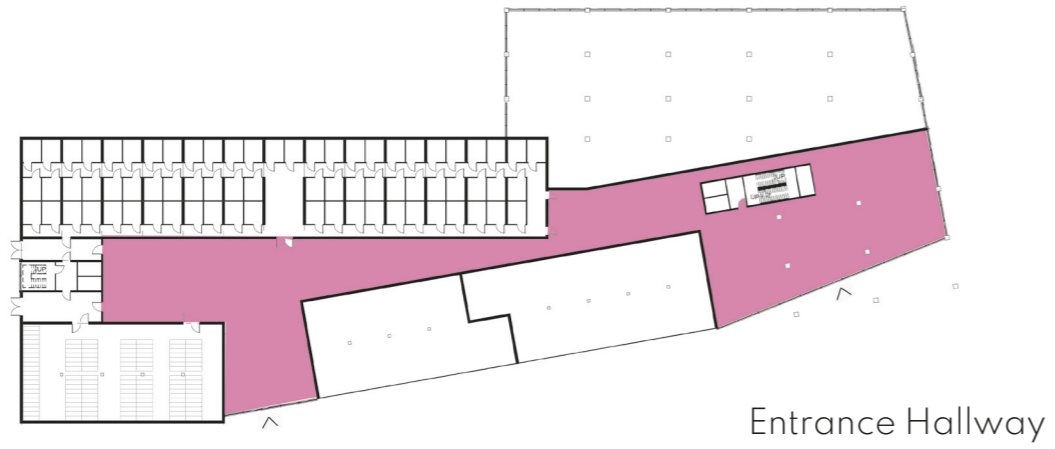


Collective Entrance

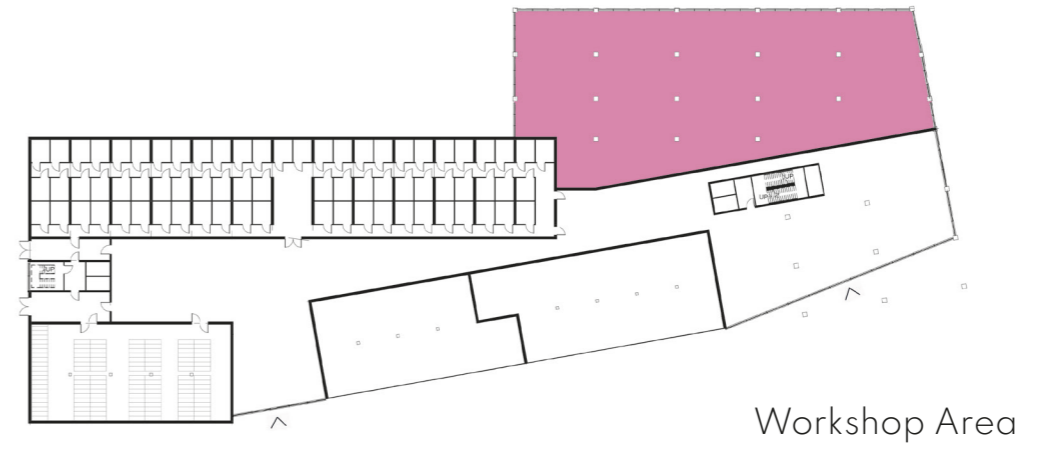


Collective Washing Room

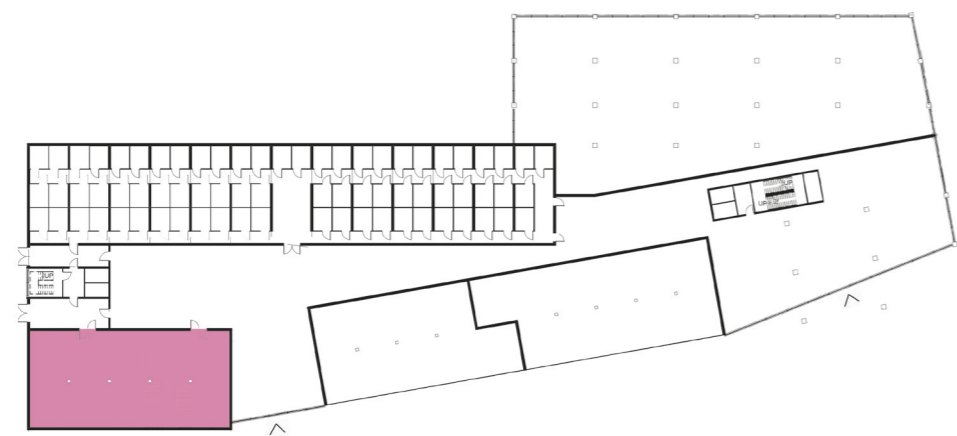




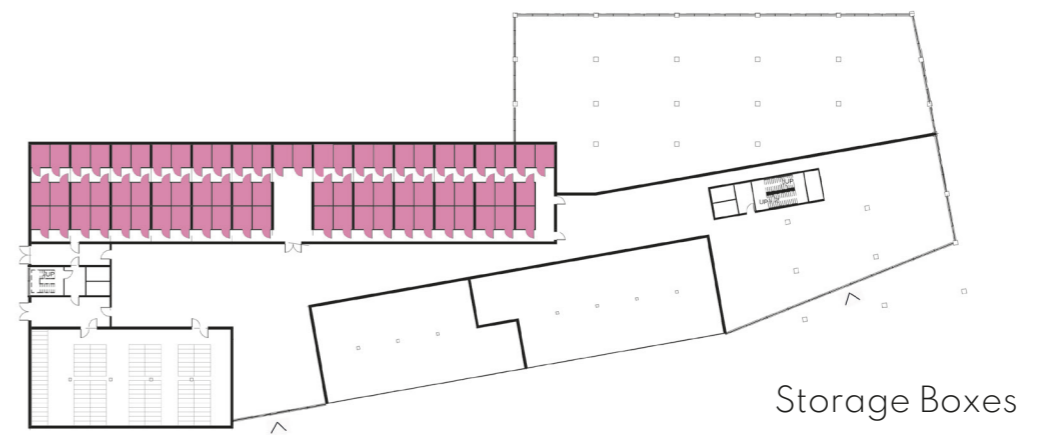
Entrance Hallway



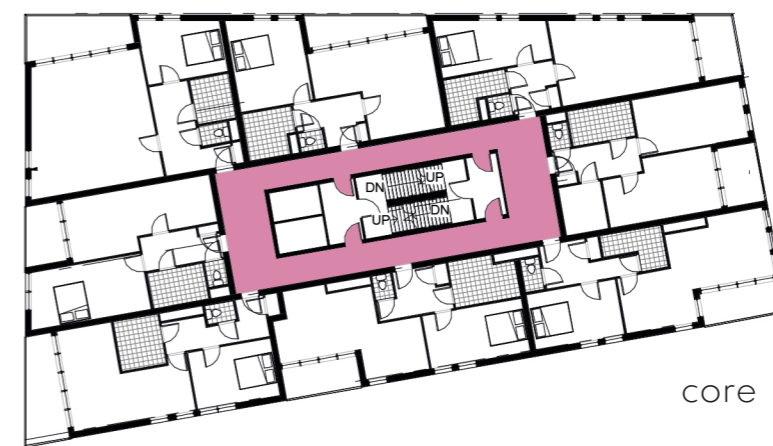
Workshop Area



Coffee Bar



Storage Boxes



CIRCULATION 



CIRCULATION
IMPRESSION

