Symphony

AR3AH105 | Resourceful housing | Adapting 20th century heritage

Drawing set

Bram Turkstra | 4802470 | 24.06.2024



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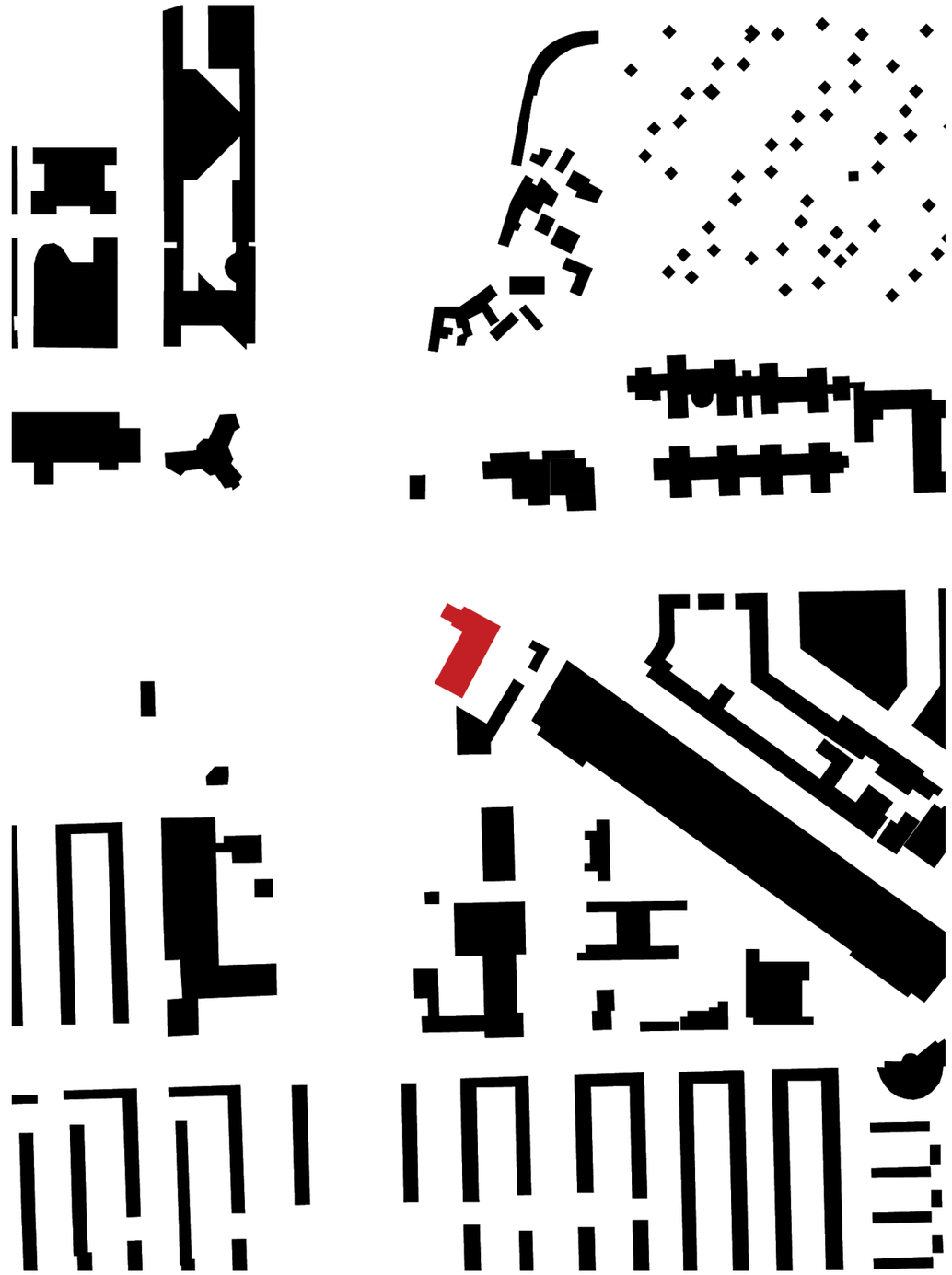


Symphony

Location research



COURSE AR3AH105	DATE 20.11.2023	
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Buildings	DRAWING 2023001	EX_B_001



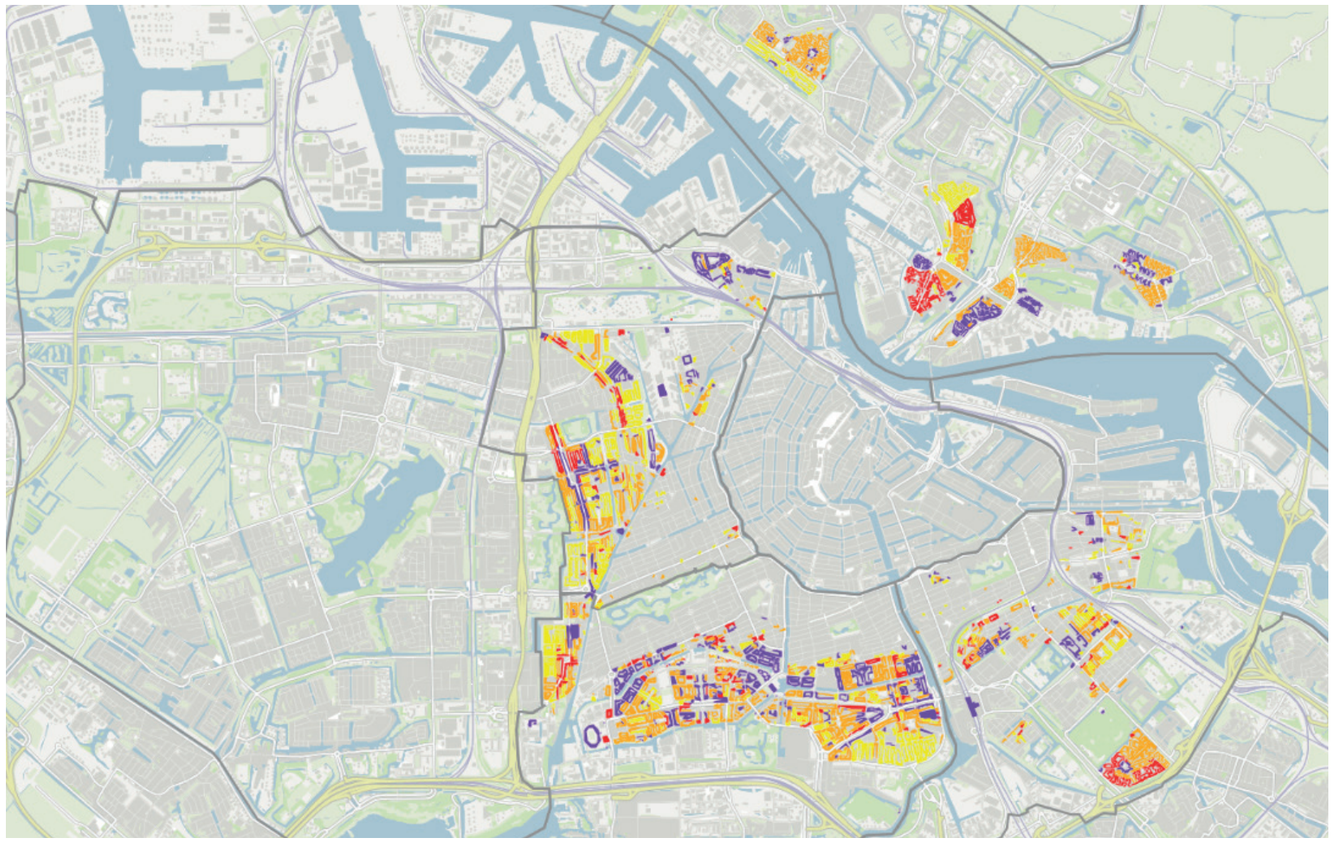
COURSE	DATE
AR3AH105	20.11.2023
PROJECT	SIZE & SCALE
Wereldbibliotheek	A3 1:5000
SUBJECT	DRAWING
Water	2023001 EX_B_002

COURSE AR3AH105	DATE 20.11.2023
PROJECT Wereldbibliotheek	SIZE & SCALE A3 1:5000
SUBJECT Roads & Traintracks	DRAWING 2023001 EX_B_003

LEGEND

1st order	
2nd order	
3rd order	
Basic order	
To be determined	

COURSE AR3AH105	DATE 20.11.2023	
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Listed buildings	DRAWING 2023001	EX_B_004



Gordel 1920-1940 (belt area around the old city center):

The valuation map for the Belt '20-'40 covers all urban extensions from the period between World War I and World War II, including the garden villages in Amsterdam North. As is also visible in the map here on the left.

On the valuation maps, the architectural quality of the buildings is indicated in an ascending valuation with basic order, order 3, order 2 and order 1.

In addition, the valuation maps pay attention to architectural units, accents and symmetrical buildings. These aspects are also included in the assessment of plans.

Because it is not just about the individual building, but also about urban planning coherence, urban planning is also given a rating, rising from basic zone to zone 3, zone 2 and zone 1. The combination of these two rating systems makes it possible to take a nuanced view of a particular building. Architecture with a low rating in an urbanistic high-grade area requires a more careful assessment than in an urbanistic low-grade area: orders and zones reinforce each other or provide nuance.

First order:

These are national monuments, municipal monuments and buildings with similar cultural-historical value.

The following applies to registered national and municipal monuments: to be treated as protected under the 1988 Monuments Act or the Ordinance for the Preservation of Monuments in the city districts of the Belt '20-40. For the shell, a restorative approach applies.

For order 1 buildings not registered as national or municipal monuments, a restorative approach applies to facades and roofs adjacent to public areas: maintaining and restoring the original elements in form, size, material, detailing, proportion and colour. In case of disturbing mutilations, reconstruction of the original building mass.

For rear facades of order 1 buildings not registered as national or municipal monuments: reasonable requirements of external appearance.

Second order:

These are listed buildings with emphatic architectural distinctiveness and buildings with special cultural-historical significance.

The approach to facades and roofs adjacent to public areas is based on a restorative approach and the maintenance and restoration of the original elements in form, size, material, detailing, proportion and colour. In case of disturbing mutilations, reconstruct the original building mass. The use of non-original materials is not excluded provided it is visually fully consistent with the original form, size, detailing, proportion and colour, but is strongly discouraged.

Reasonable standards of appearance apply to rear façades.

Third order:

These are characteristic buildings with architectural and/or urban development added value.

The approach to façades adjacent to public areas is based on maintaining and restoring the original elements in shape, size, material, detailing, proportion and colour. Minor changes to these are conceivable if they correspond to the original characteristics. Specific attention is requested for buildings that are particularly situated or that occupy a special position in the architectural unit, such as symmetrically built buildings and corner buildings.

Reasonable standards of appearance apply to rear façades.

Basic:

These are buildings with basic quality that are characteristic of the period, or buildings that have lost their architectural added value due to major changes.

When dealing with facades adjacent to public areas, the original characteristic is the starting point. Deviations from the original façade elements in form, size, material, detailing, proportion and colour are conceivable if they do not lead to visual disturbance of the architectural unit as a whole and of the streetscape.

Reasonable standards of appearance apply to rear façades.



'Wereldbibliotheek':

- Municipal monument
- Former function — Printing factory
- Current function — Industrial buidling

To be treated as protected under the 1988 Monuments Act or the Ordinance for the Preservation of Monuments in the city districts of the Belt '20-40. For the shell, a restorative approach applies.

For order 1 buildings not registered as national or municipal monuments, a restorative approach applies to facades and roofs adjacent to public areas: maintaining and restoring the original elements in form, size, material, detailing, proportion and colour. In case of disturbing mutilations, reconstruction of the original building mass.

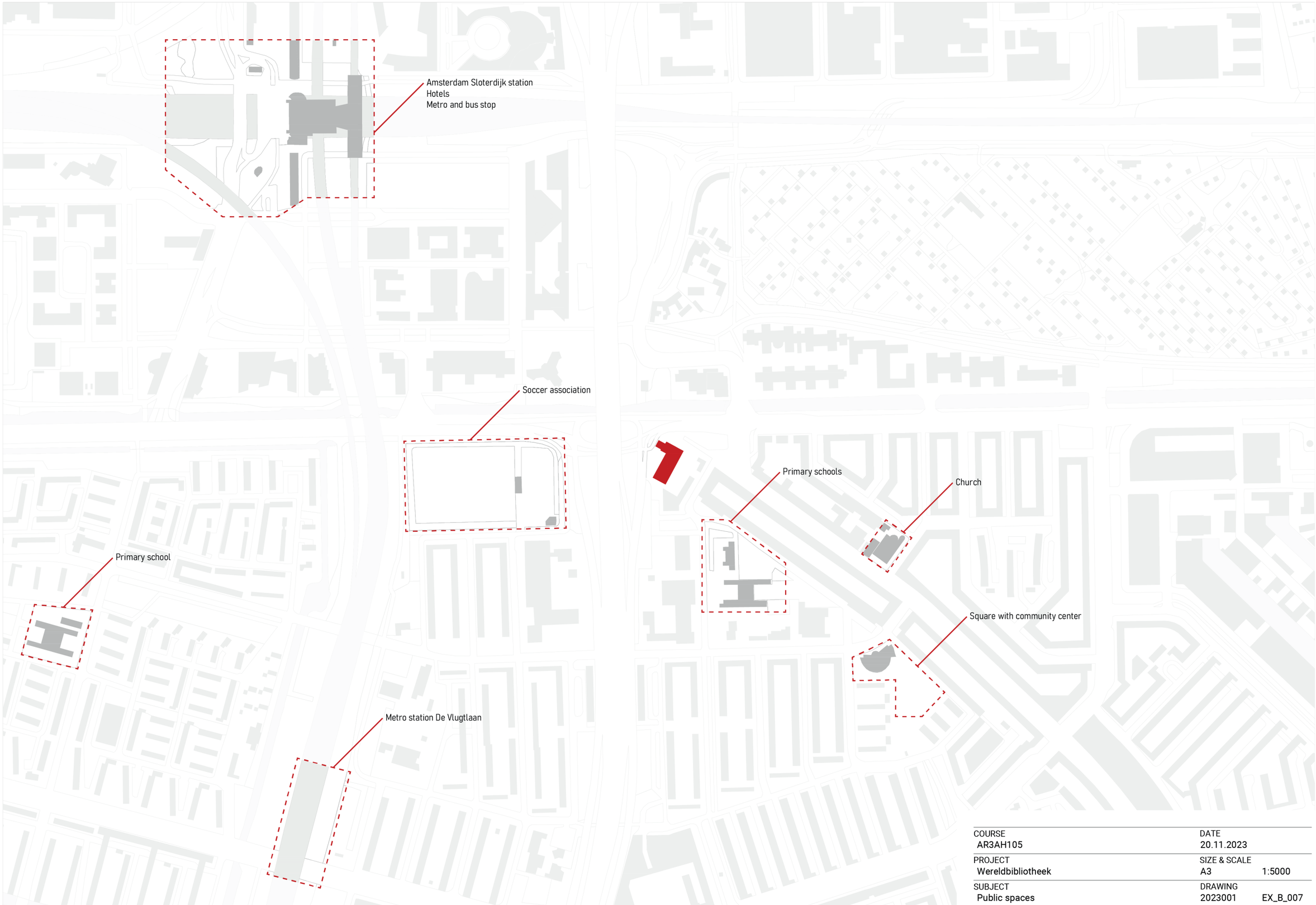
For rear facades of order 1 buildings not registered as national or municipal monuments: reasonable requirements of external appearance.

LEGEND

Visible green

Quality green

COURSE AR3AH105	DATE 20.11.2023
PROJECT Wereldbibliotheek	SIZE & SCALE A3 1:5000
SUBJECT Listed buildings	DRAWING 2023001 EX_B_005



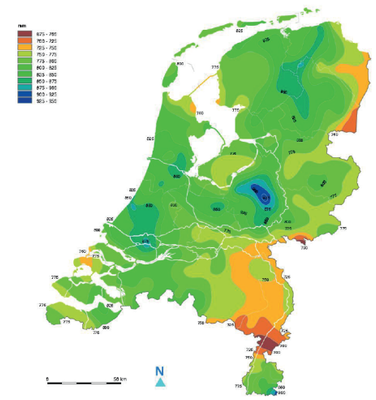
COURSE AR3AH105	DATE 20.11.2023
PROJECT Wereldbibliotheek	SIZE & SCALE A3 1:5000
SUBJECT Public spaces	DRAWING 2023001 EX_B_007

NORTH
180°

WEST 90°

EAST 90°

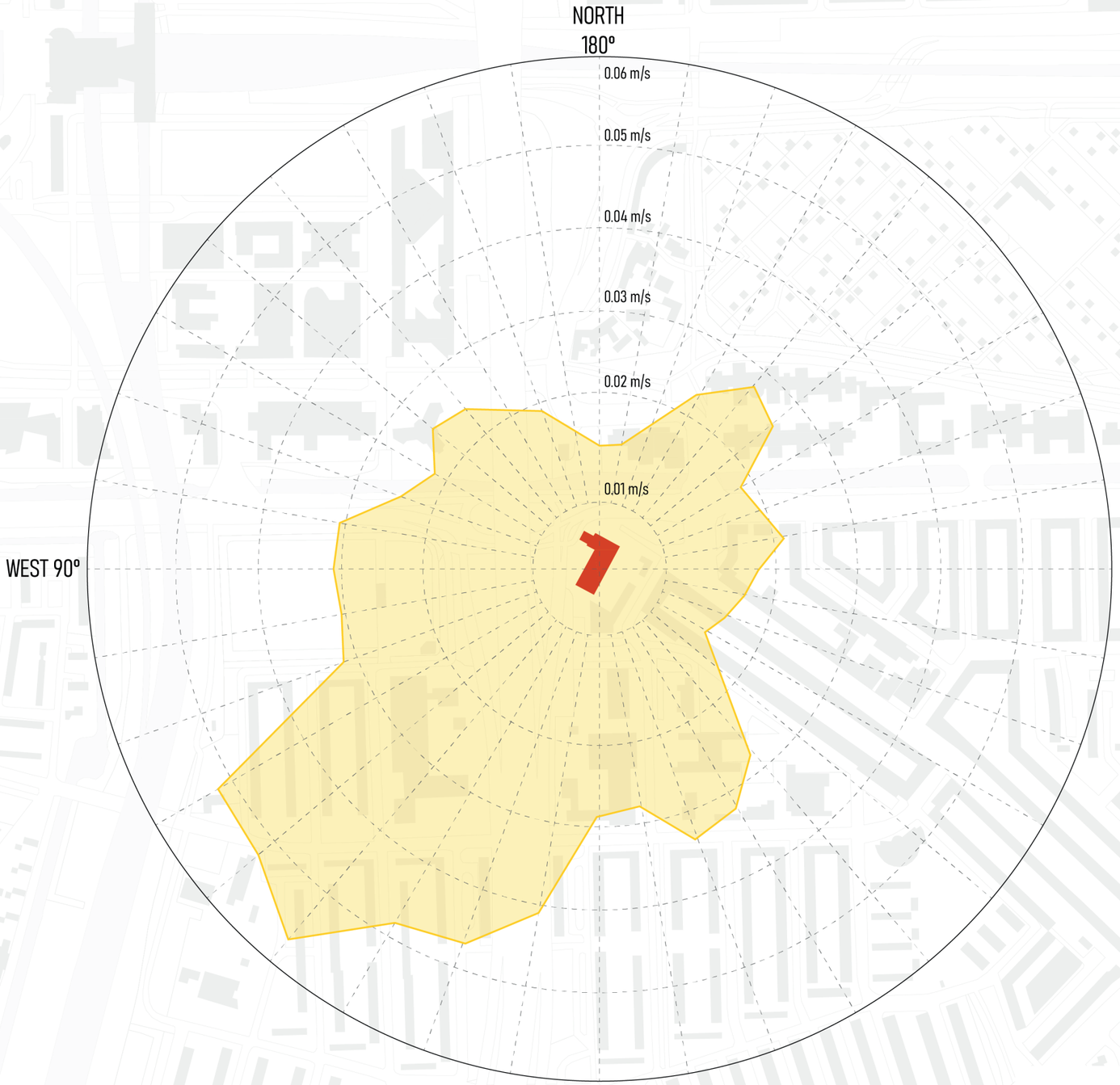
SOUTH
0°



LEGEND

800-825 mm rainfall/year

COURSE AR3AH105	DATE 19.02.2024	
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Air quality/pollution	DRAWING 2023001	EX_B_023



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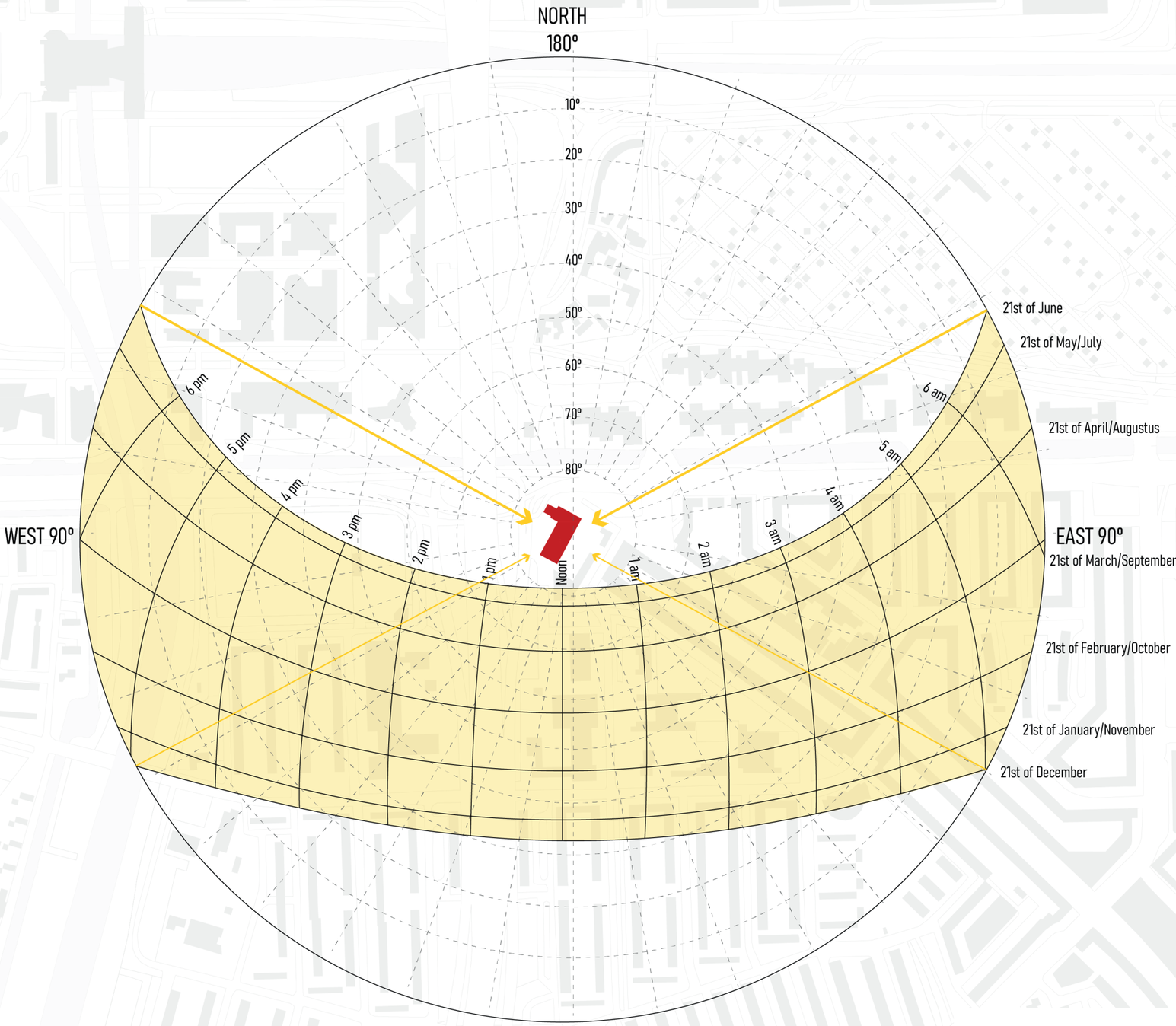
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Dominant wind direction	DRAWING 2023001	EX_B_024



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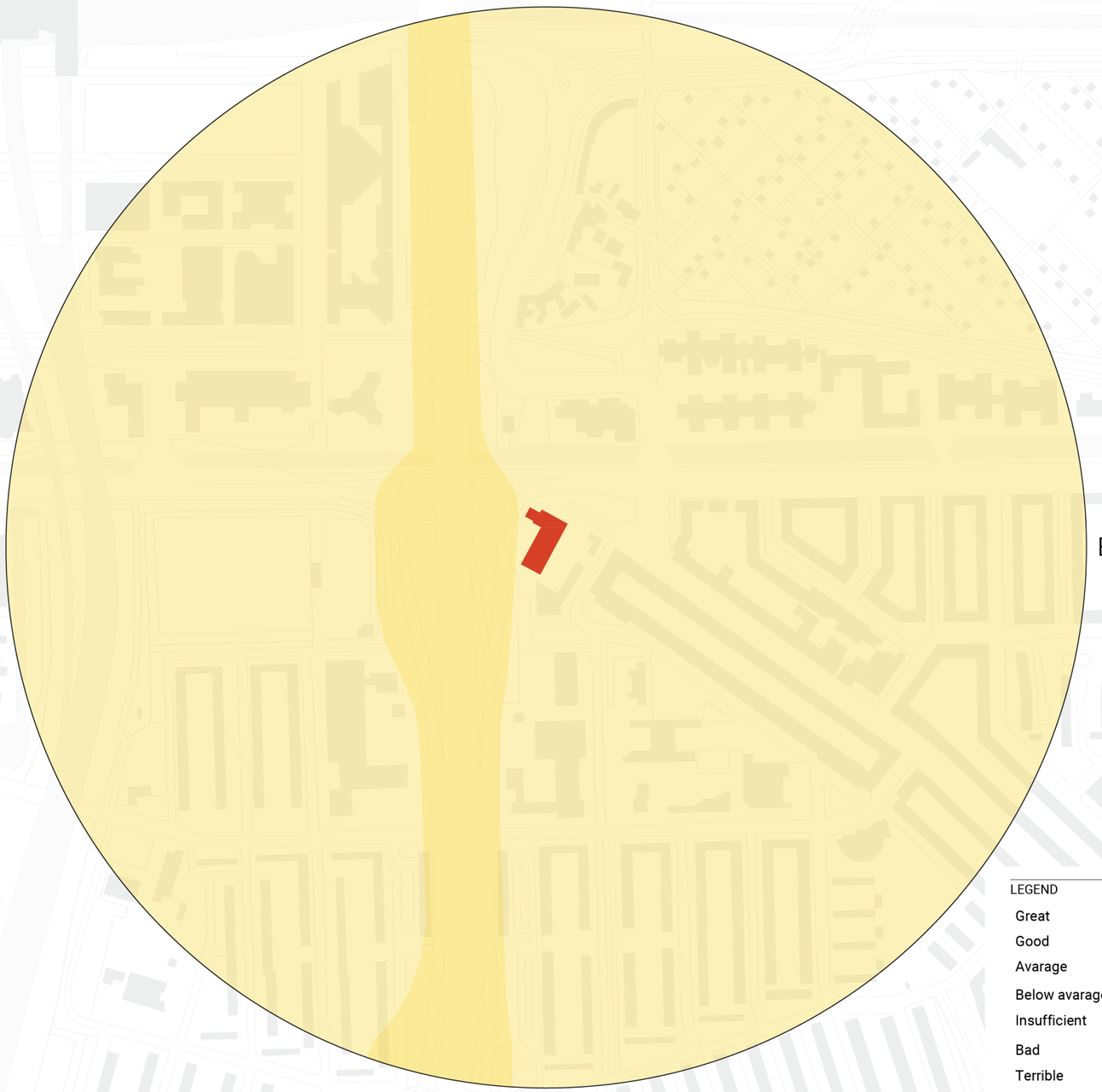
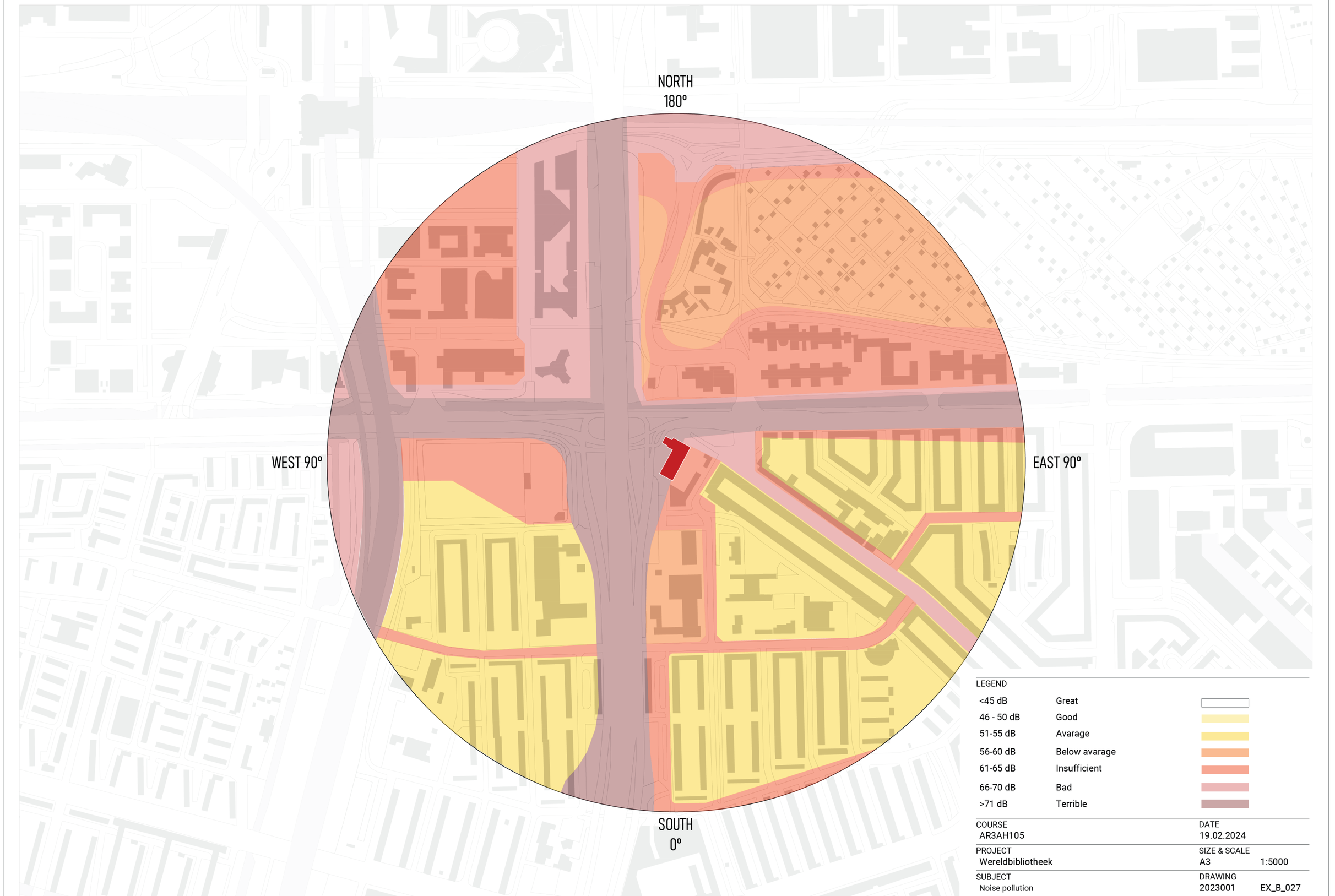
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Solar path	DRAWING 2023001	EX_B_025



LEGEND

- Great
- Good
- Avarage
- Below avarage
- Insufficient
- Bad
- Terrible

COURSE	DATE	
AR3AH105	19.02.2024	
PROJECT	SIZE & SCALE	
Wereldbibliotheek	A3	1:5000
SUBJECT	DRAWING	
Air quality/pollution	2023001	EX_B_026



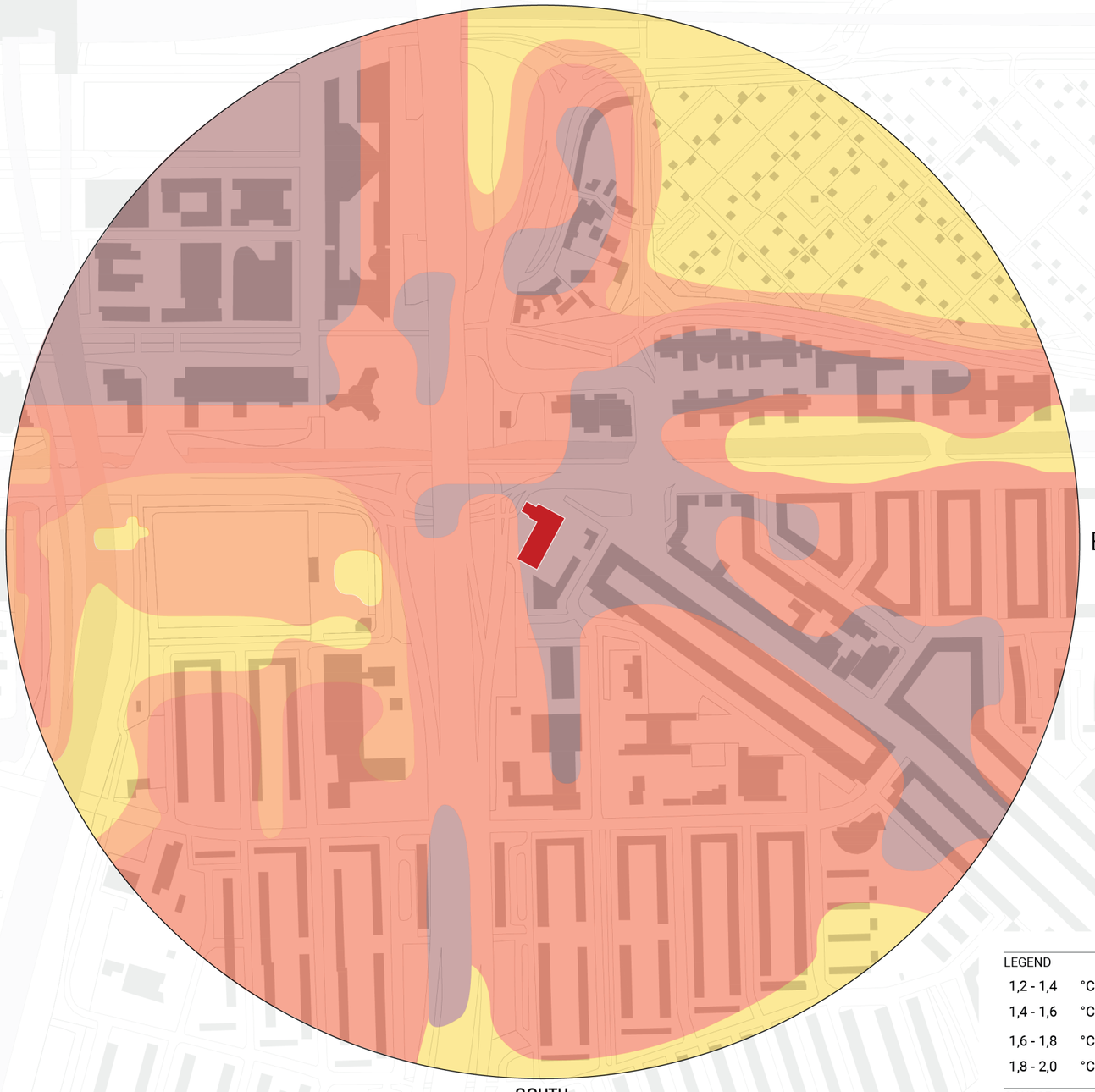
LEGEND

<45 dB	Great	
46 - 50 dB	Good	
51-55 dB	Avarage	
56-60 dB	Below avarage	
61-65 dB	Insufficient	
66-70 dB	Bad	
>71 dB	Terrible	

COURSE	DATE	
AR3AH105	19.02.2024	
PROJECT	SIZE & SCALE	
Wereldbibliotheek	A3	1:5000
SUBJECT	DRAWING	
Noise pollution	2023001	EX_B_027



COURSE AR3AH105	DATE 19.02.2024	
PROJECT Wereldbibliotheek	SIZE & SCALE A3	1:5000
SUBJECT Public transport	DRAWING 2023001	EX_B_028

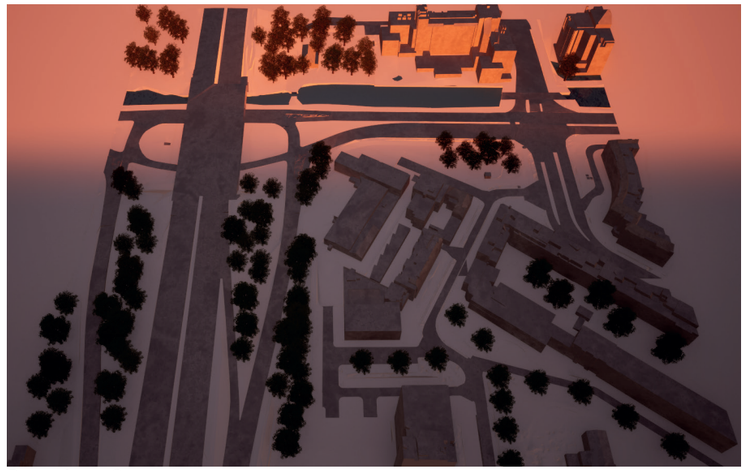


LEGEND

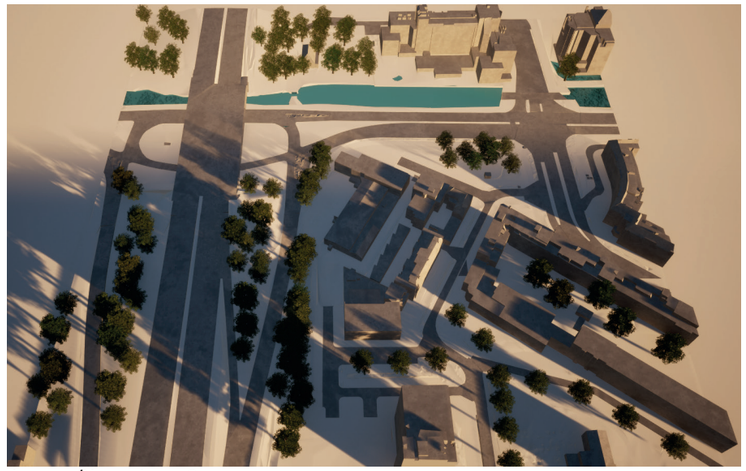
1,2 - 1,4	°C above countryside	
1,4 - 1,6	°C above countryside	
1,6 - 1,8	°C above countryside	
1,8 - 2,0	°C above countryside	

COURSE	DATE	
AR3AH105	22.02.2024	
PROJECT	SIZE & SCALE	
Wereldbibliotheek	A3	1:5000
SUBJECT	DRAWING	
Urban heat island	2023001	EX_B_029

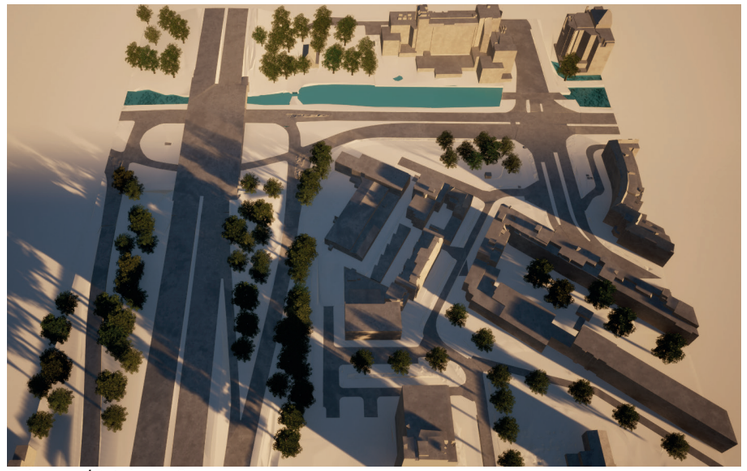
Solar study



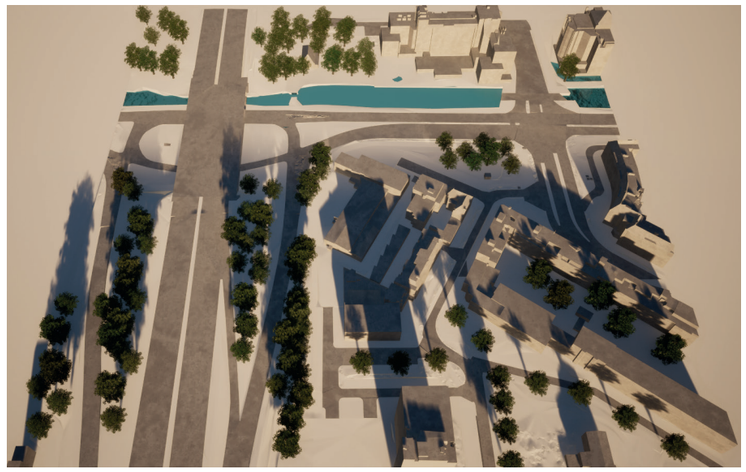
December - 9 a.m.



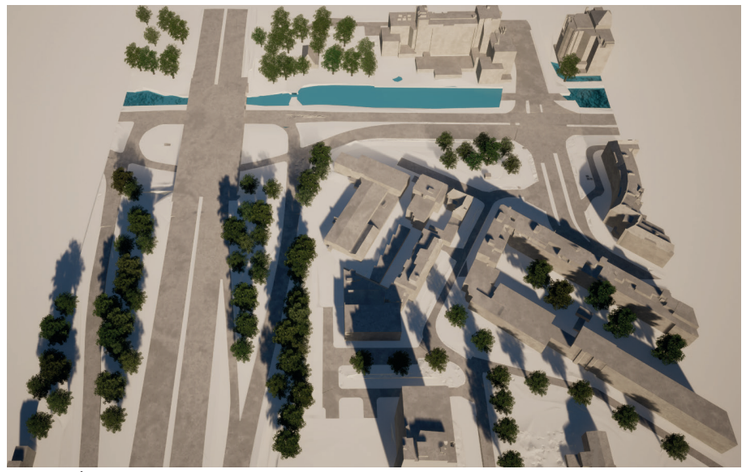
January/November - 9 a.m.



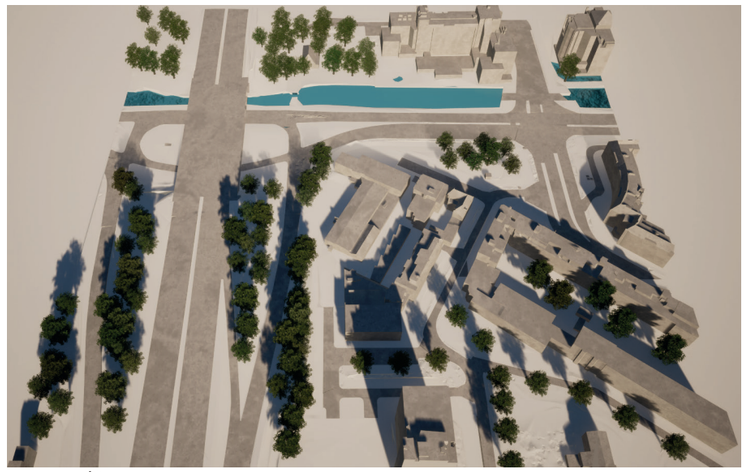
February/October - 9 a.m.



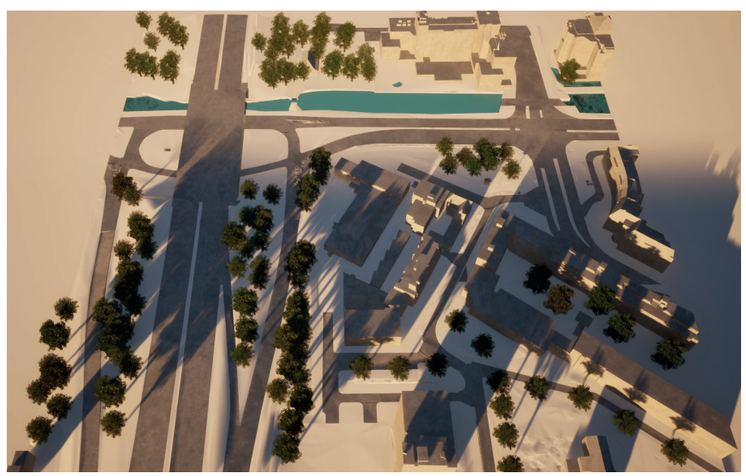
December - noon



January/November - noon



February/October - noon



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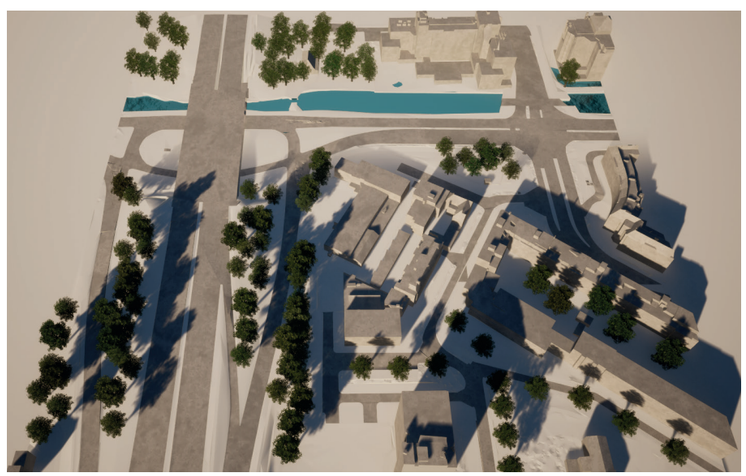

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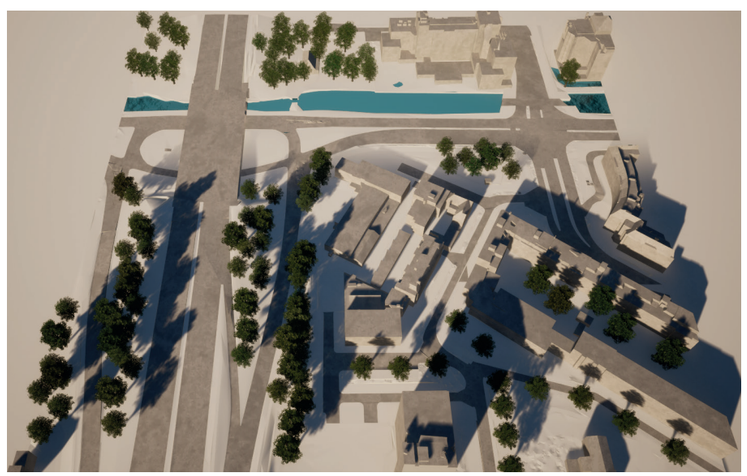
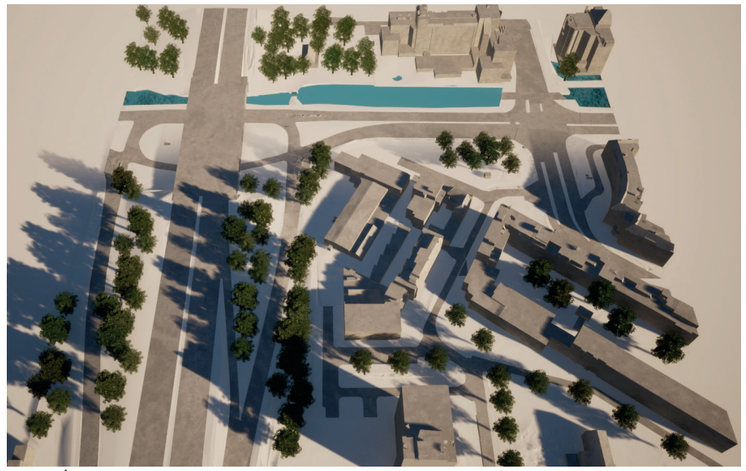
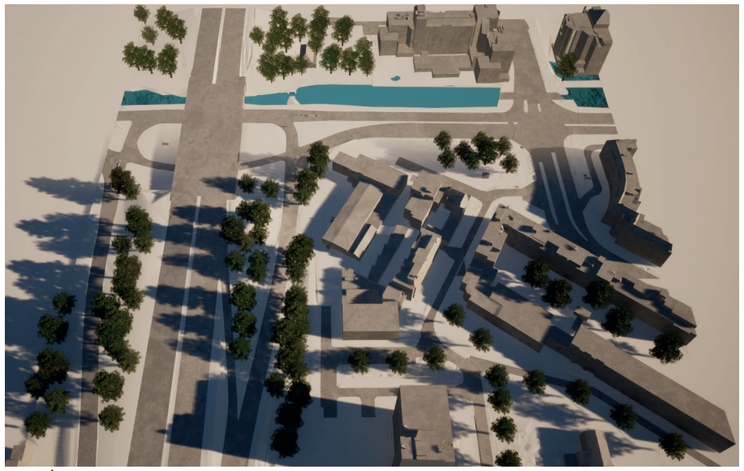


February/October - 15 p.m.

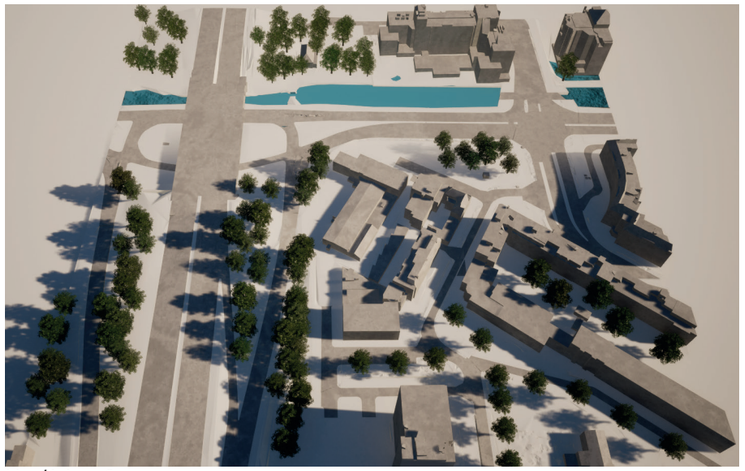
Solar study



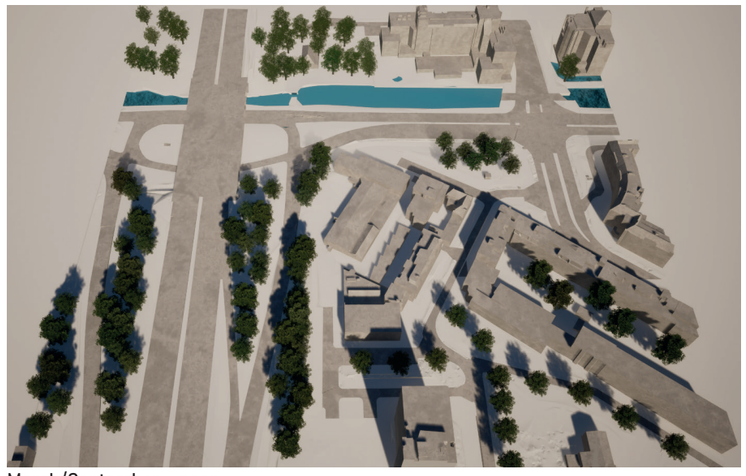
March/September - 9 a.m.



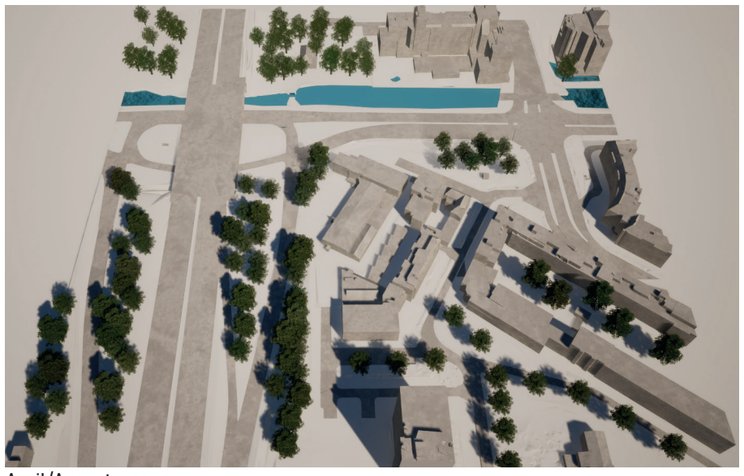
April/August - 9 a.m.



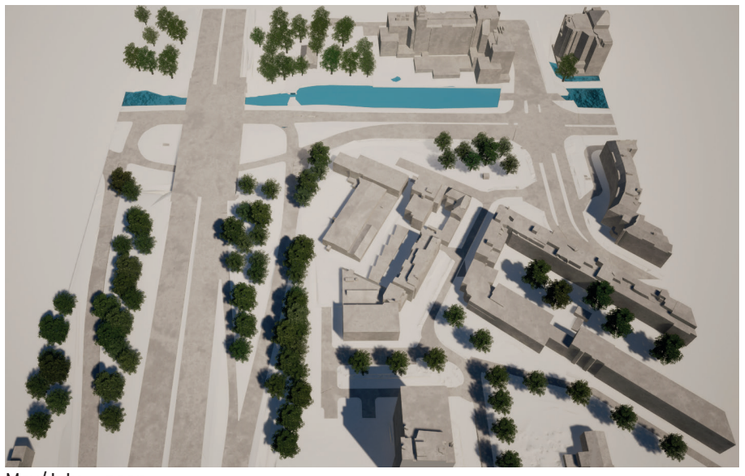
May/July - 9 a.m.



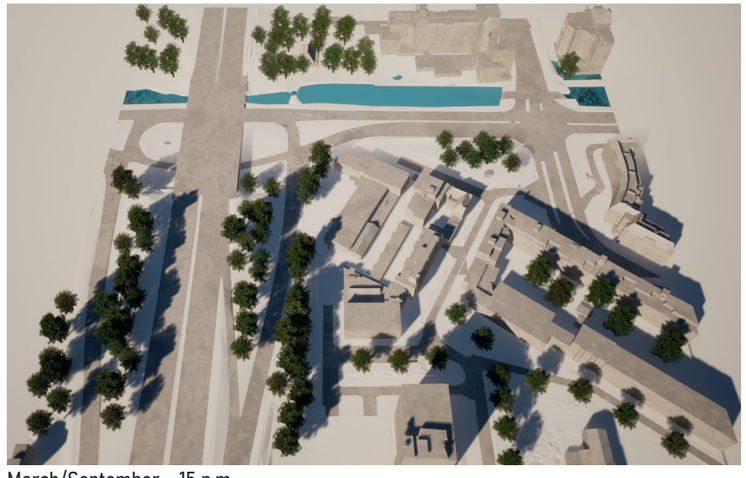
March/September - noon



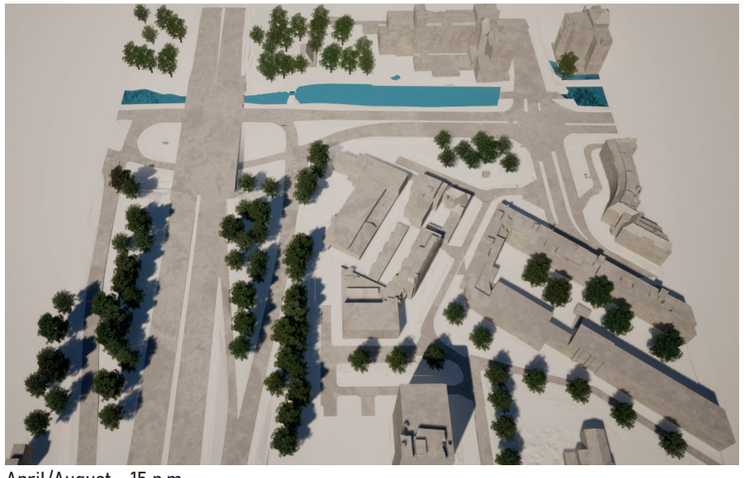
April/August - noon



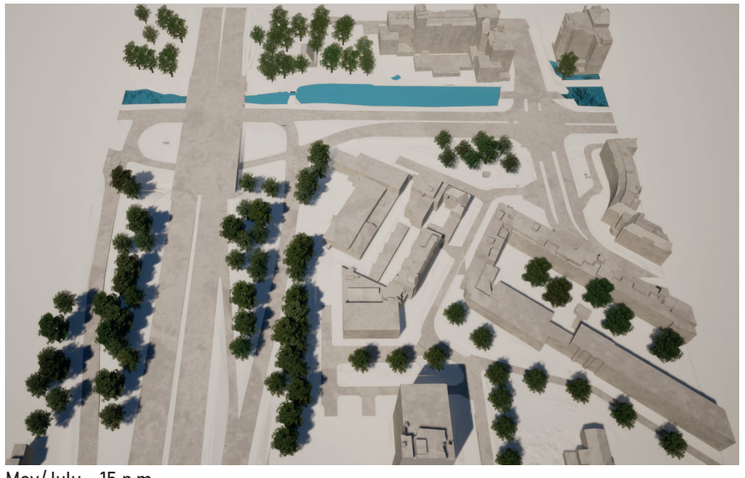
May/July - noon



March/September - 15 p.m.

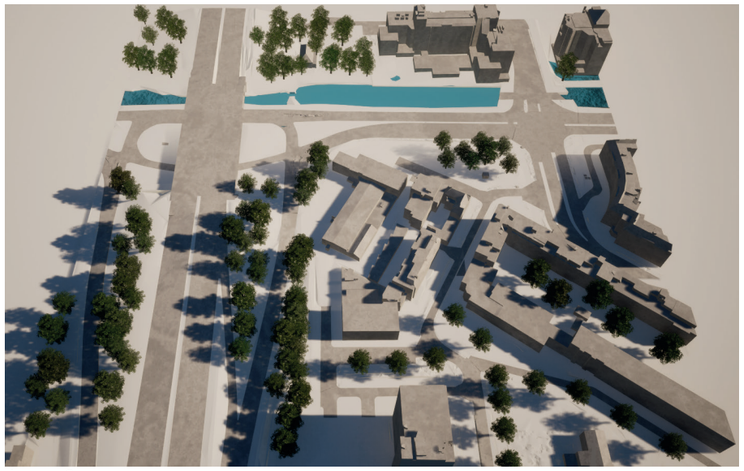


April/August - 15 p.m.

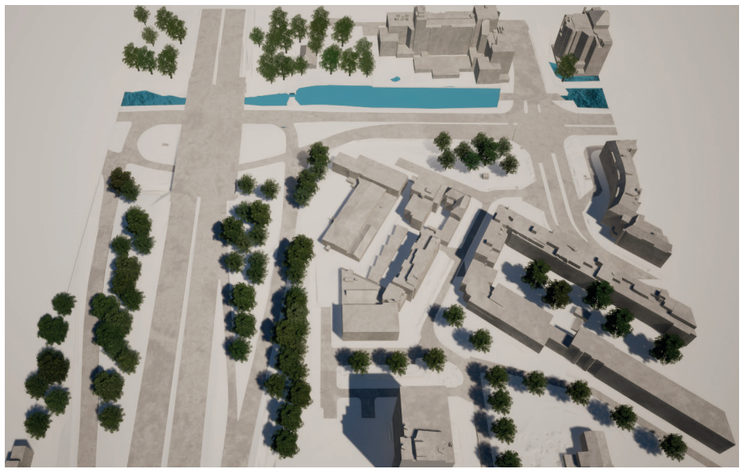


May/July - 15 p.m.

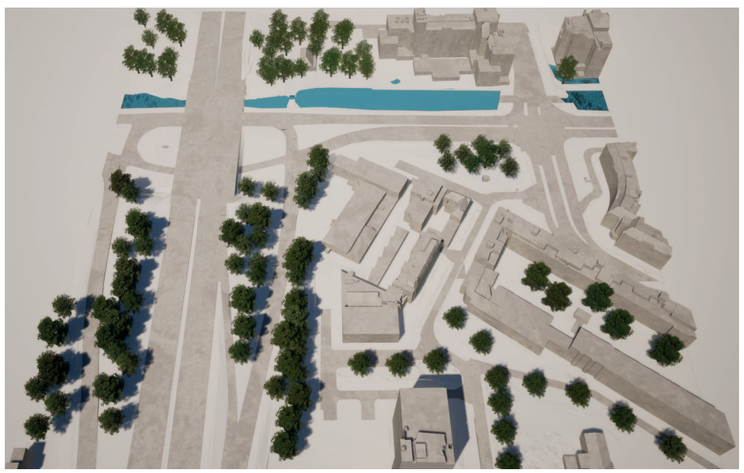
Solar study



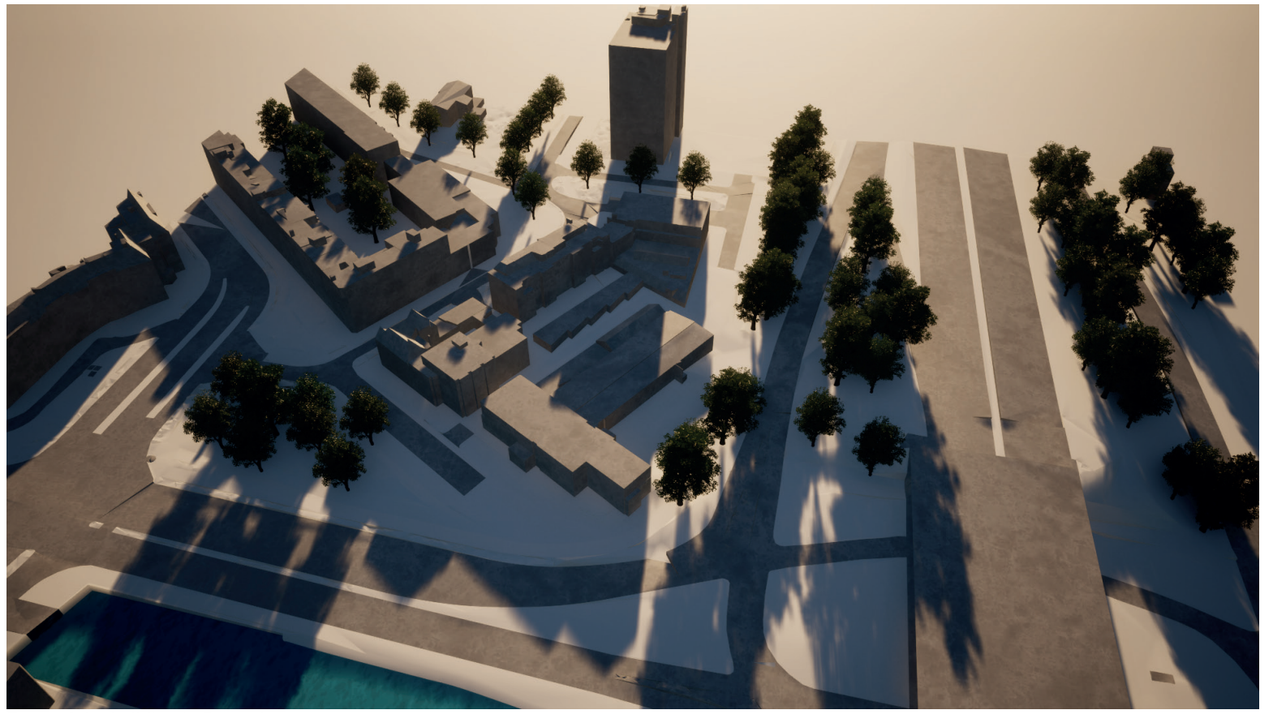
June - 9 a.m.



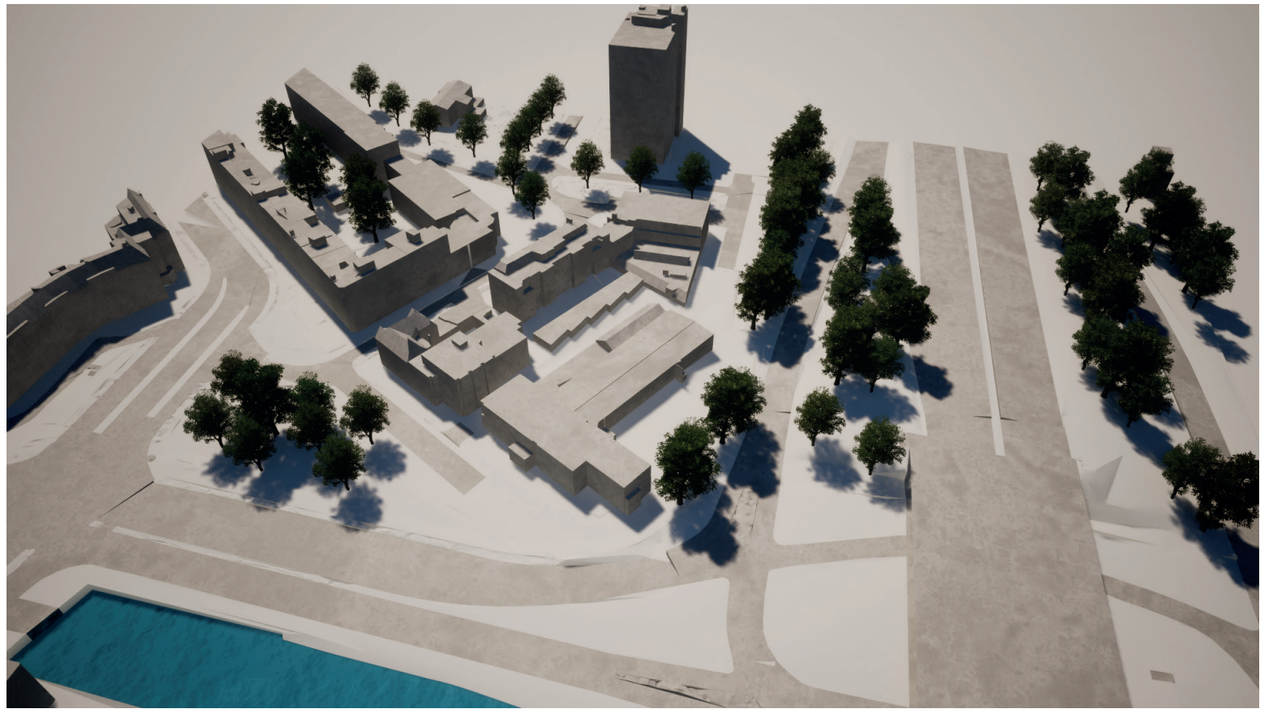
June - noon



June - 15 p.m.



Front of the building in December - noon



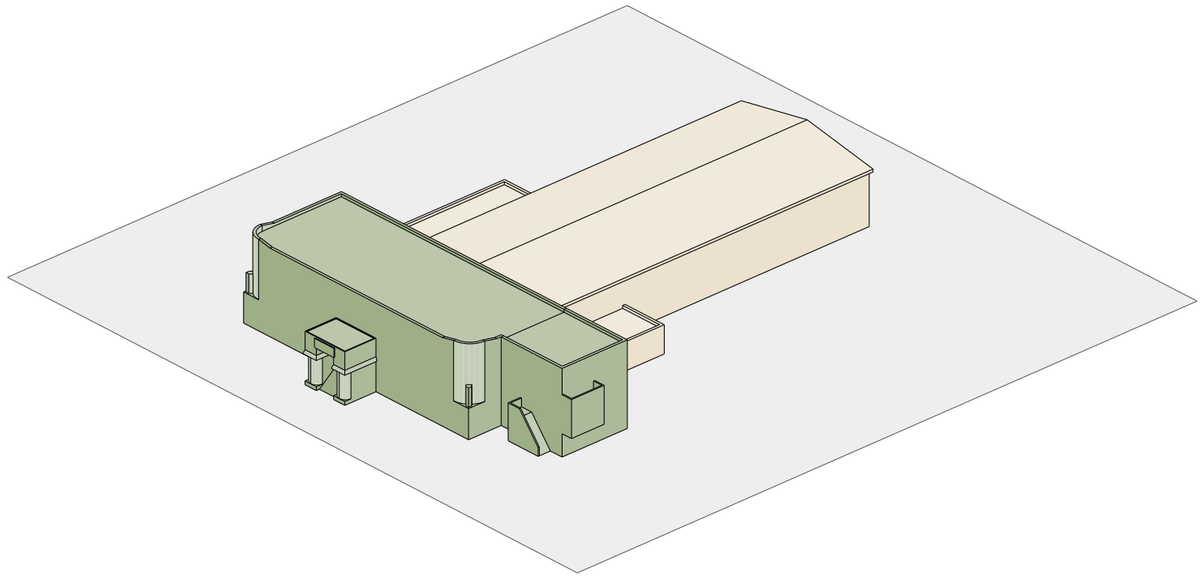
Front of the building in June - noon

Symphony

Ambitions

Ambitions

Bio-based materials

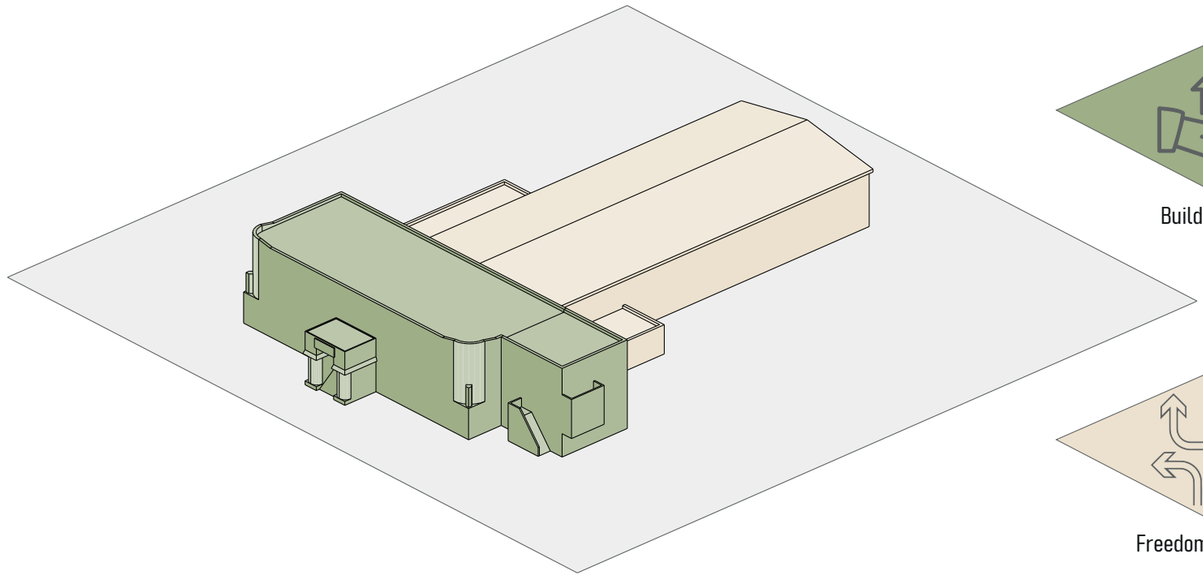


Preserving heritage

Living together

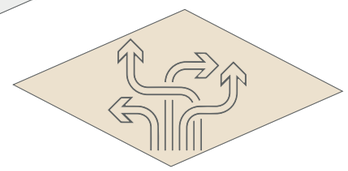
Two faces

Ambitions





Building value



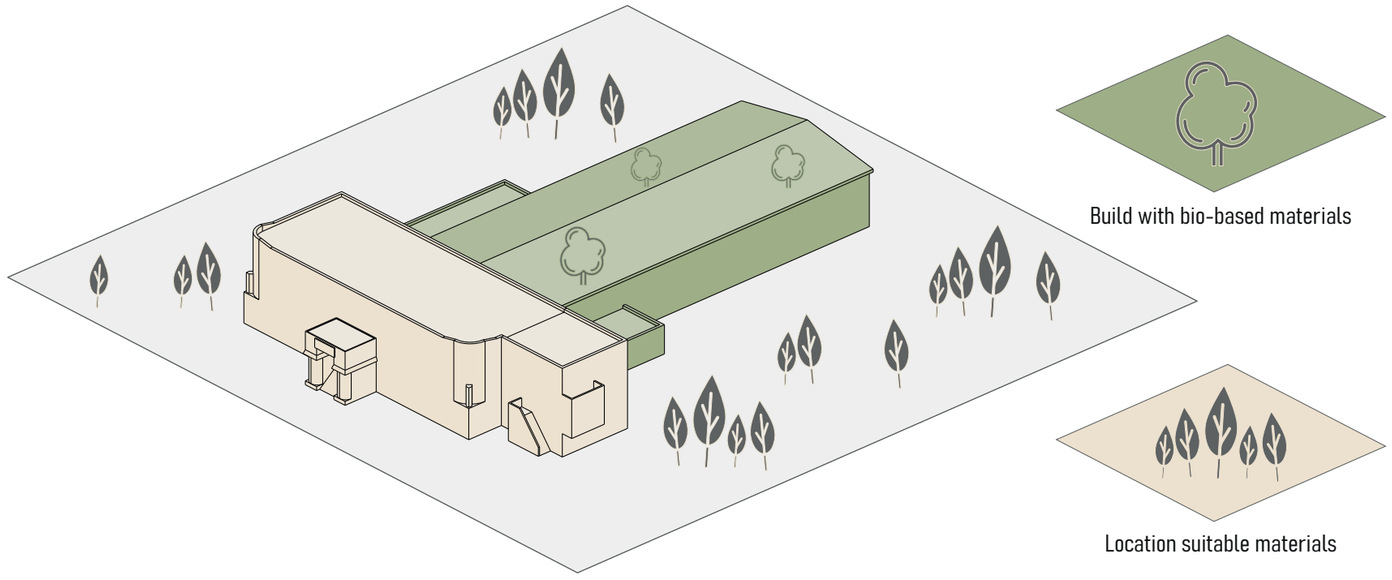
Freedom for change

Preserving Heritage

Research ambition - big scale

Maintain the character of the building for it's future

Ambitions



Build with bio-based materials

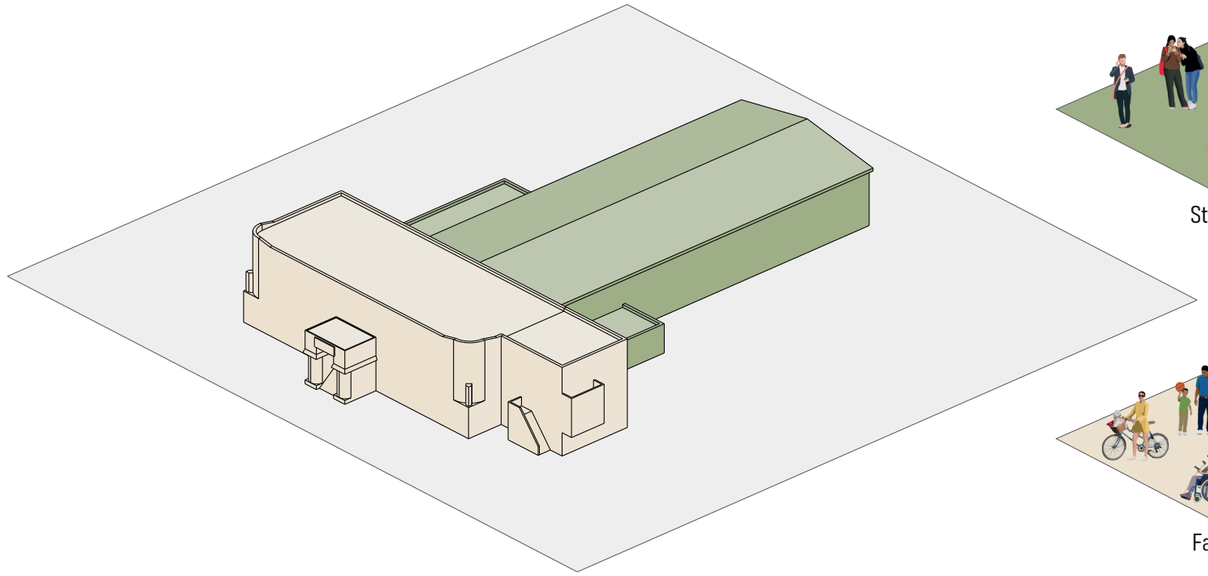
Location suitable materials

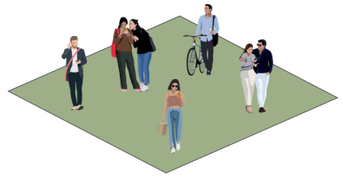
Bio-based materials

Research ambition - small scale

Using bio-based materials selected with use of the research

Ambitions





Starter



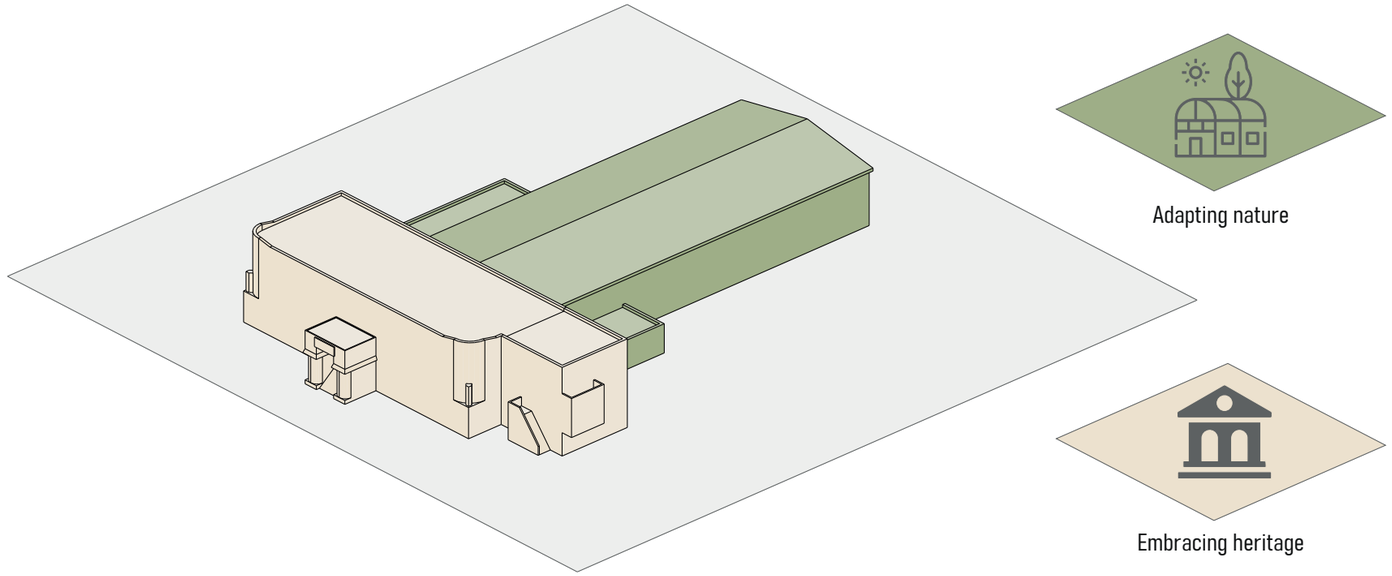
Family

Living together

Design ambition - big scale

Attracting different target groups into the building

Ambitions



Adapting nature

Embracing heritage

Two faces

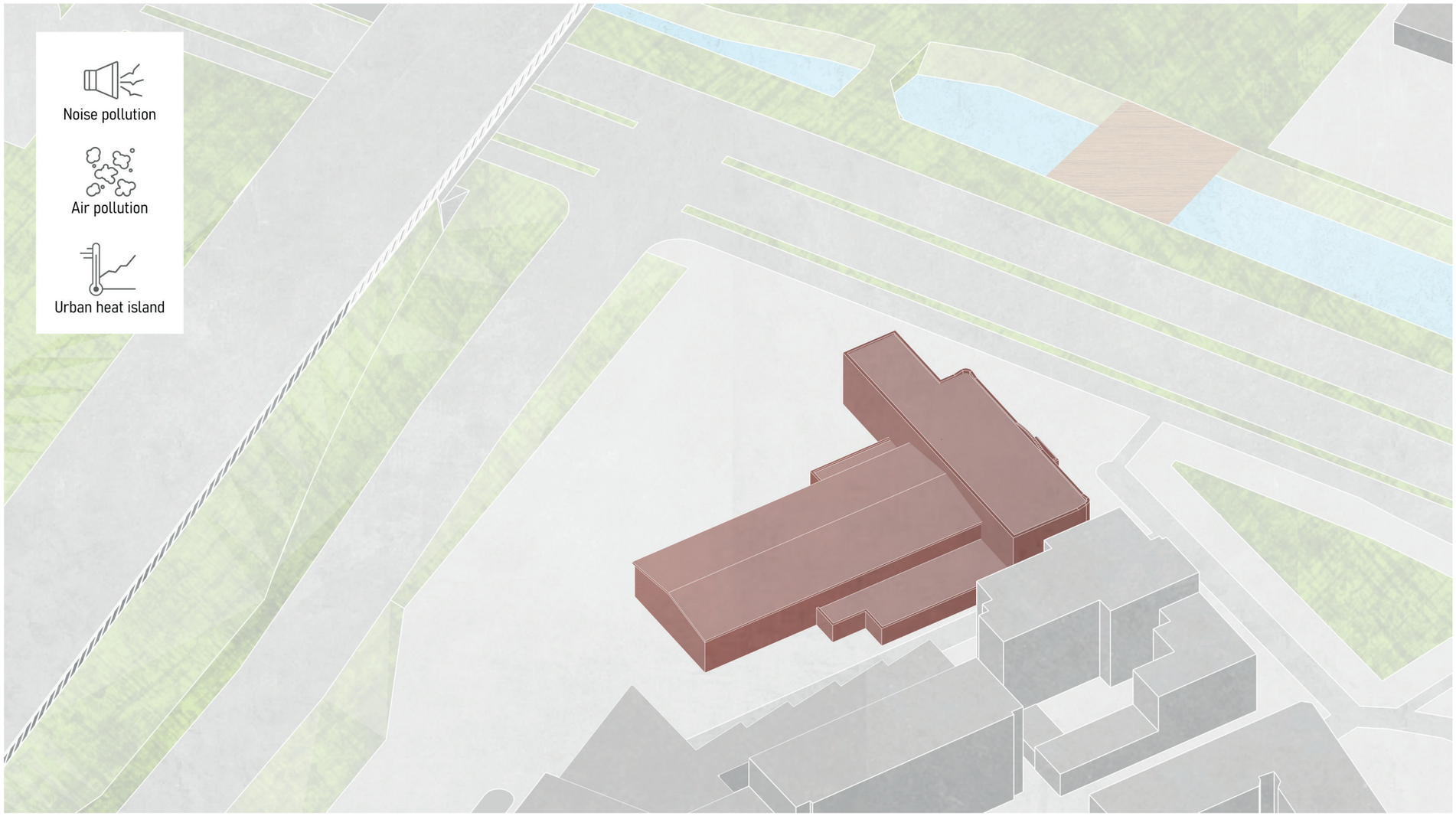
Design ambition - small scale

Showing the history as well as the future of the building

Symphony

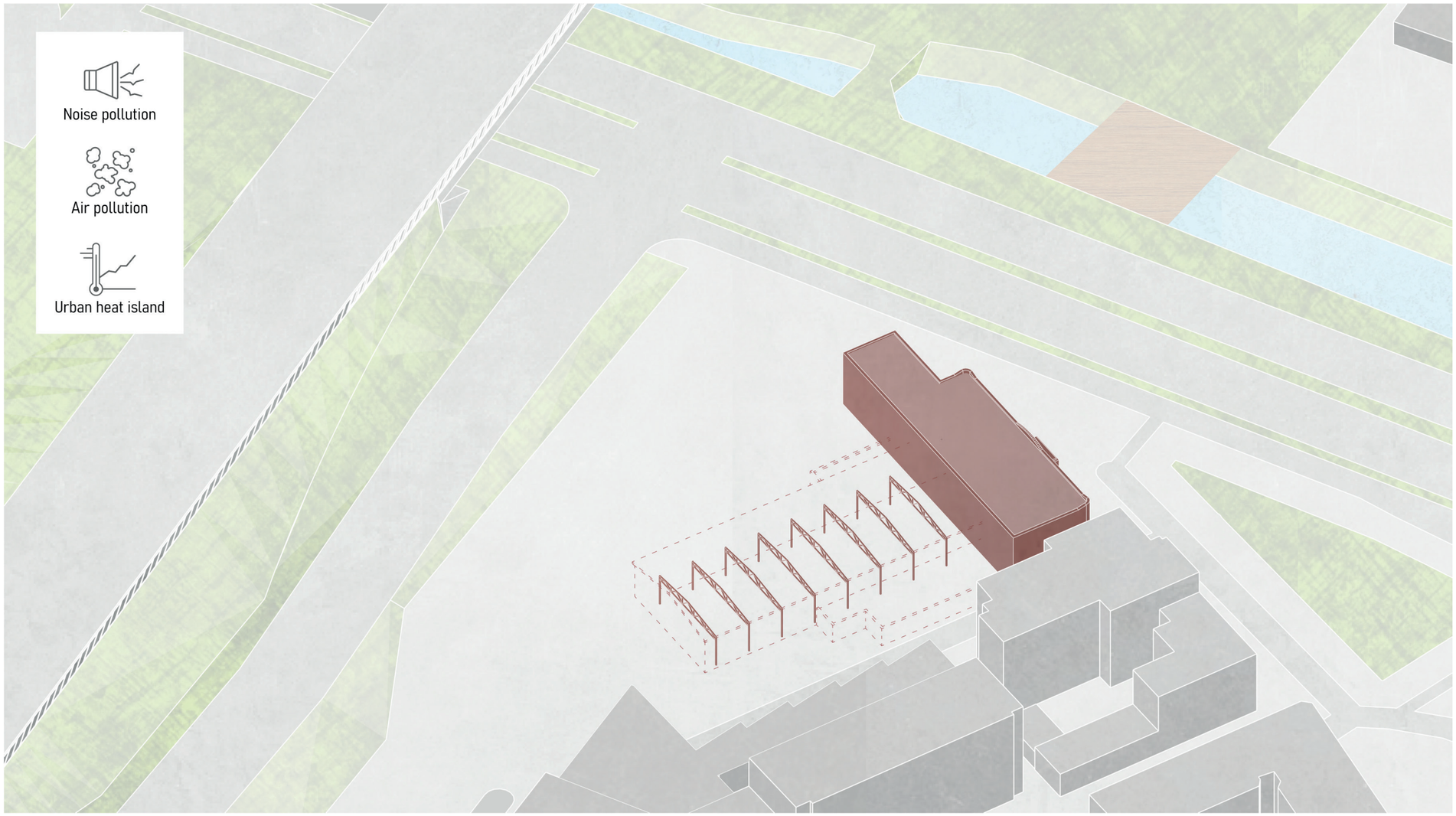
Concept build-up

Concept build-up



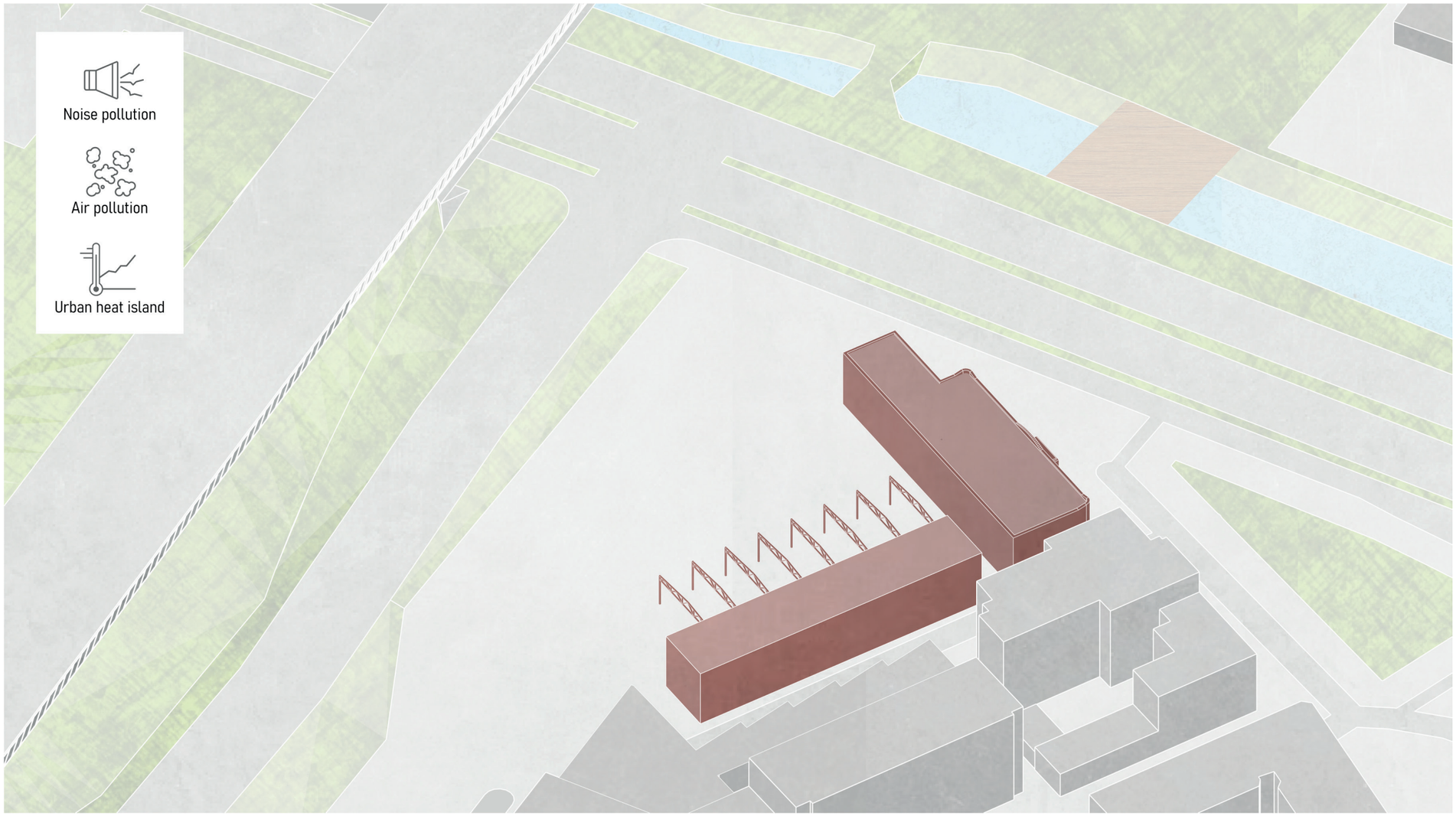
Existing situation

Concept build-up



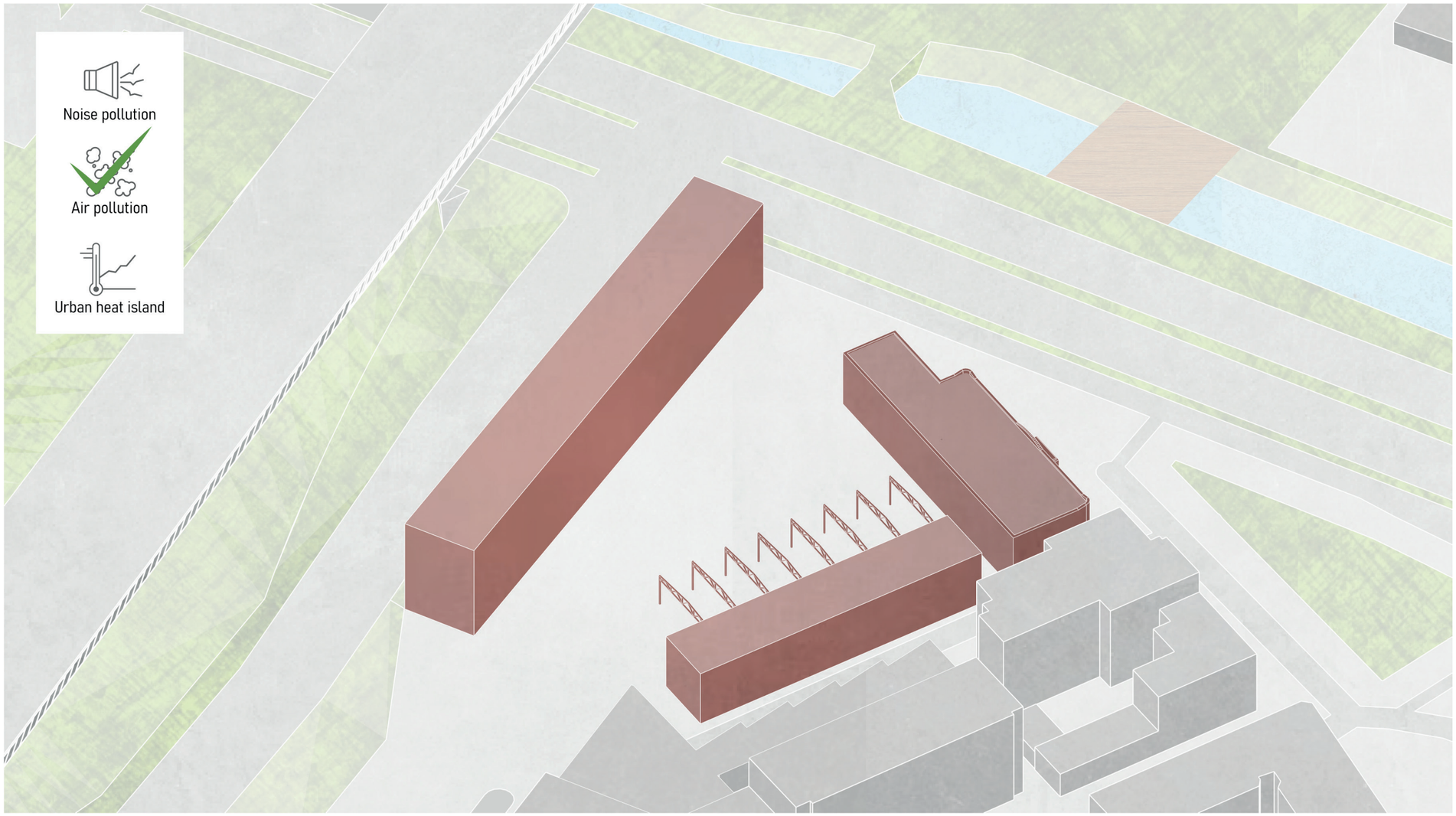
Step 1: Elements to be retained

Concept build-up



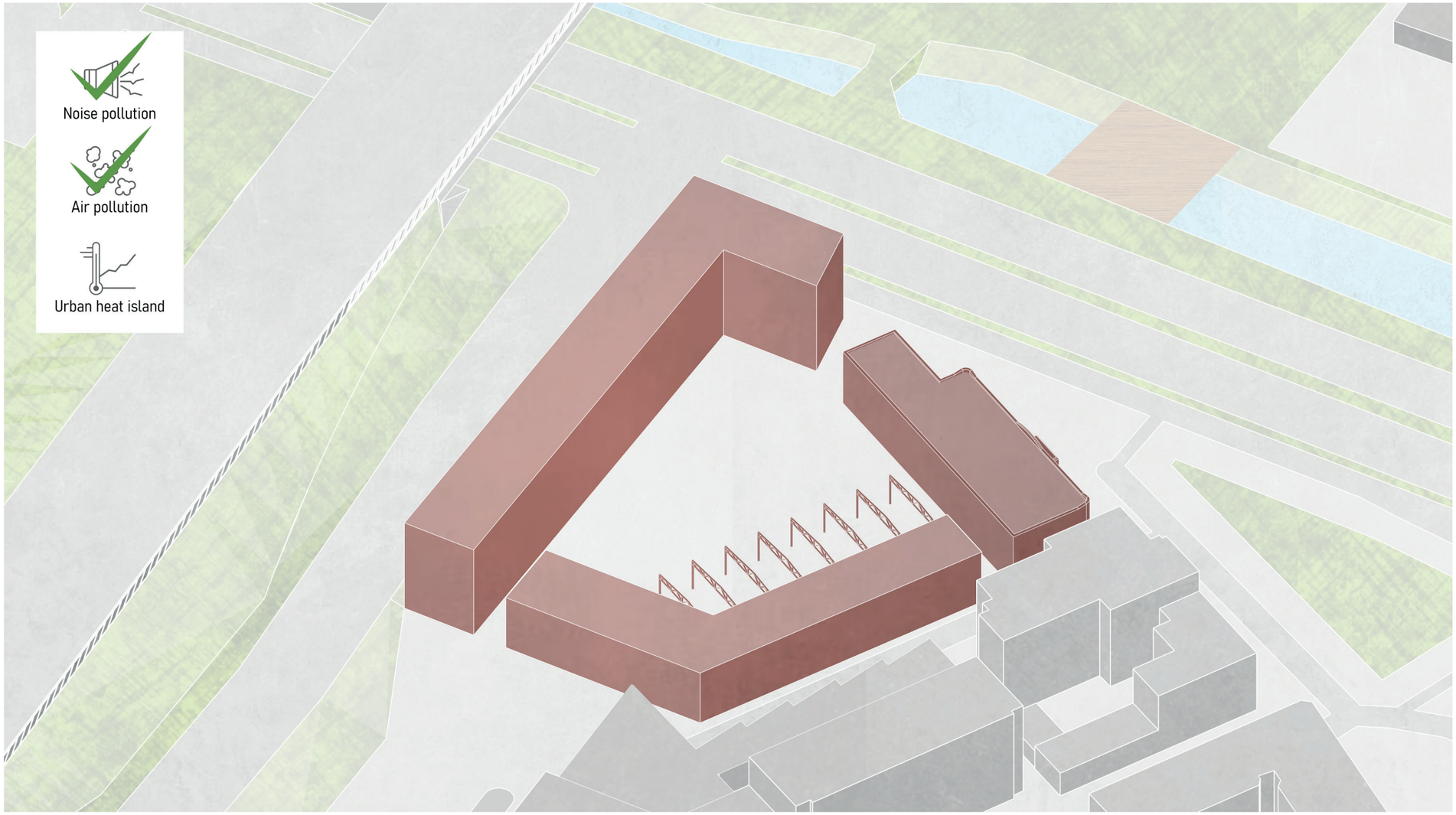
Step 2: The Esthetical wall

Concept build-up



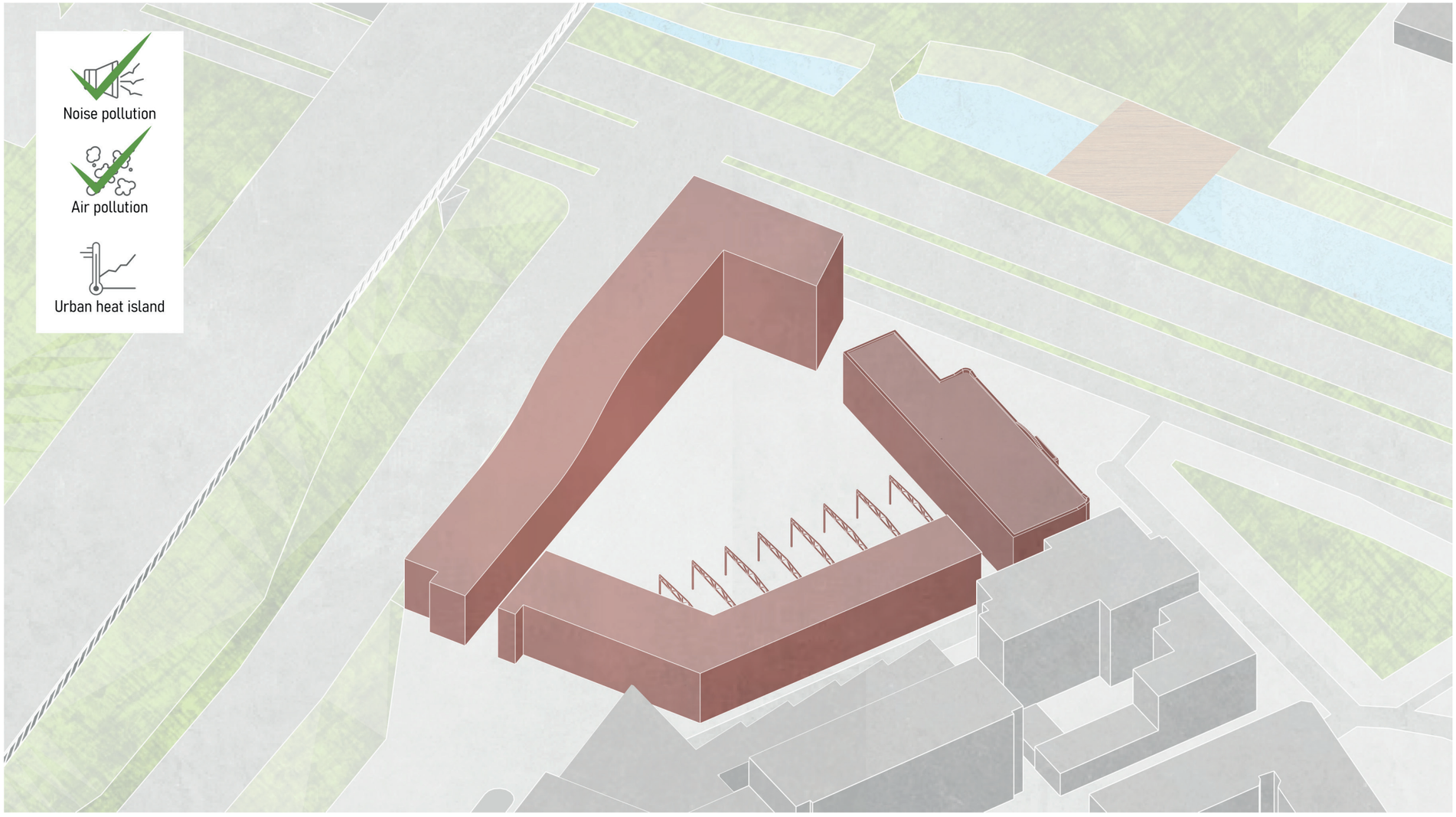
Step 3: The Practical wall

Concept build-up



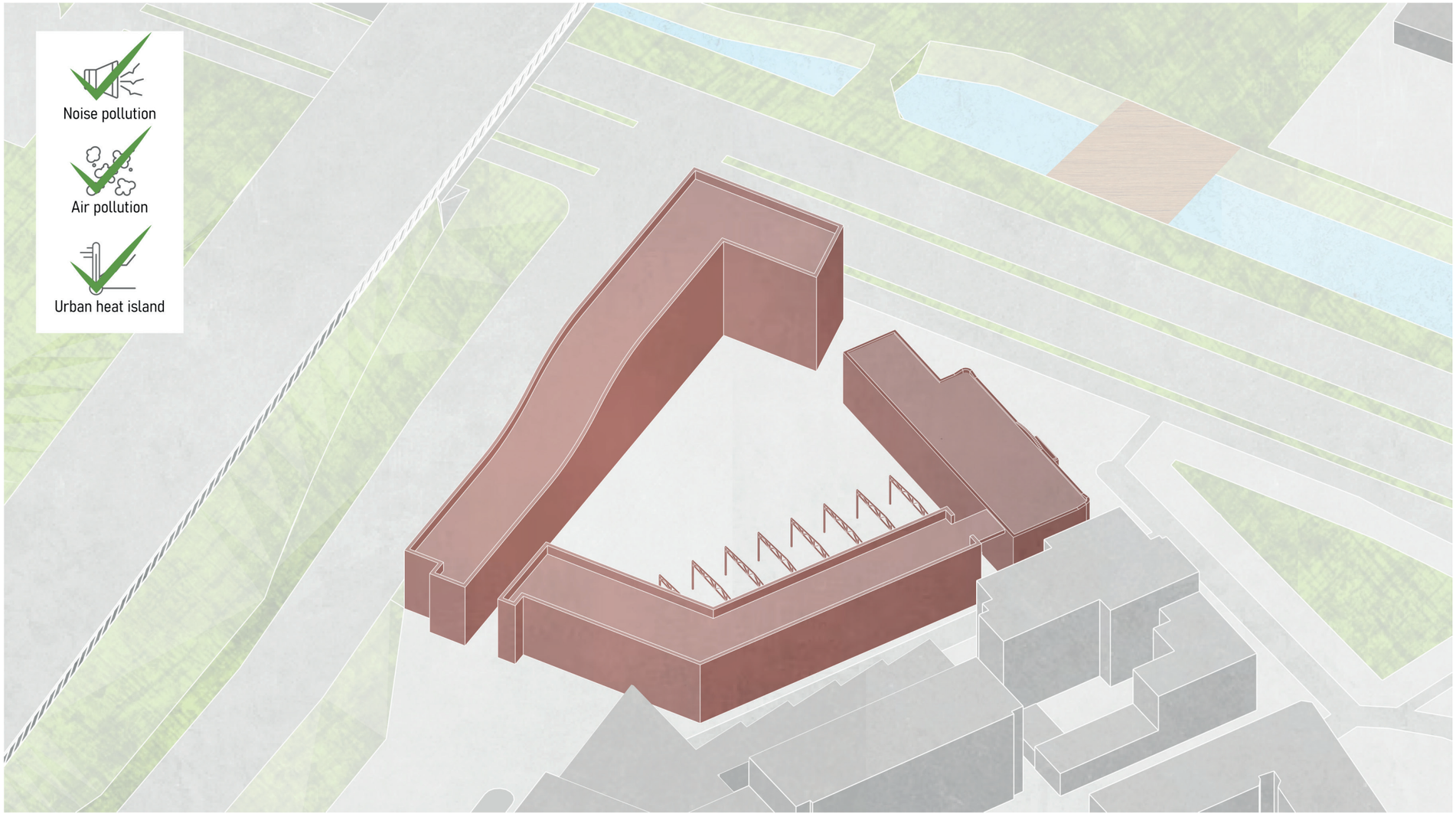
Step 5: Making the L-shape

Concept build-up



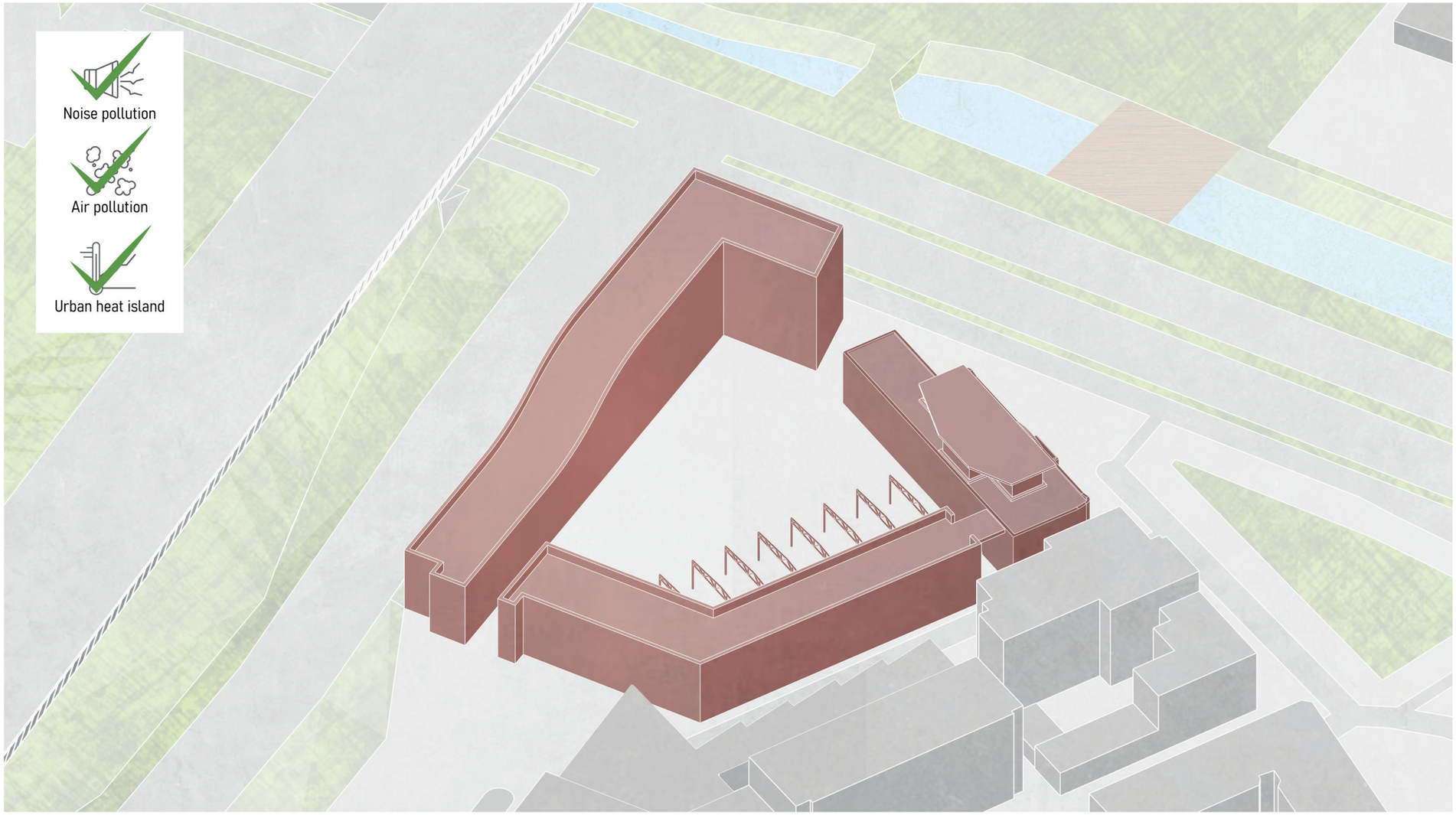
Step 6: Making the curve

Concept build-up



Step 7: Adding the roof edge

Concept build-up

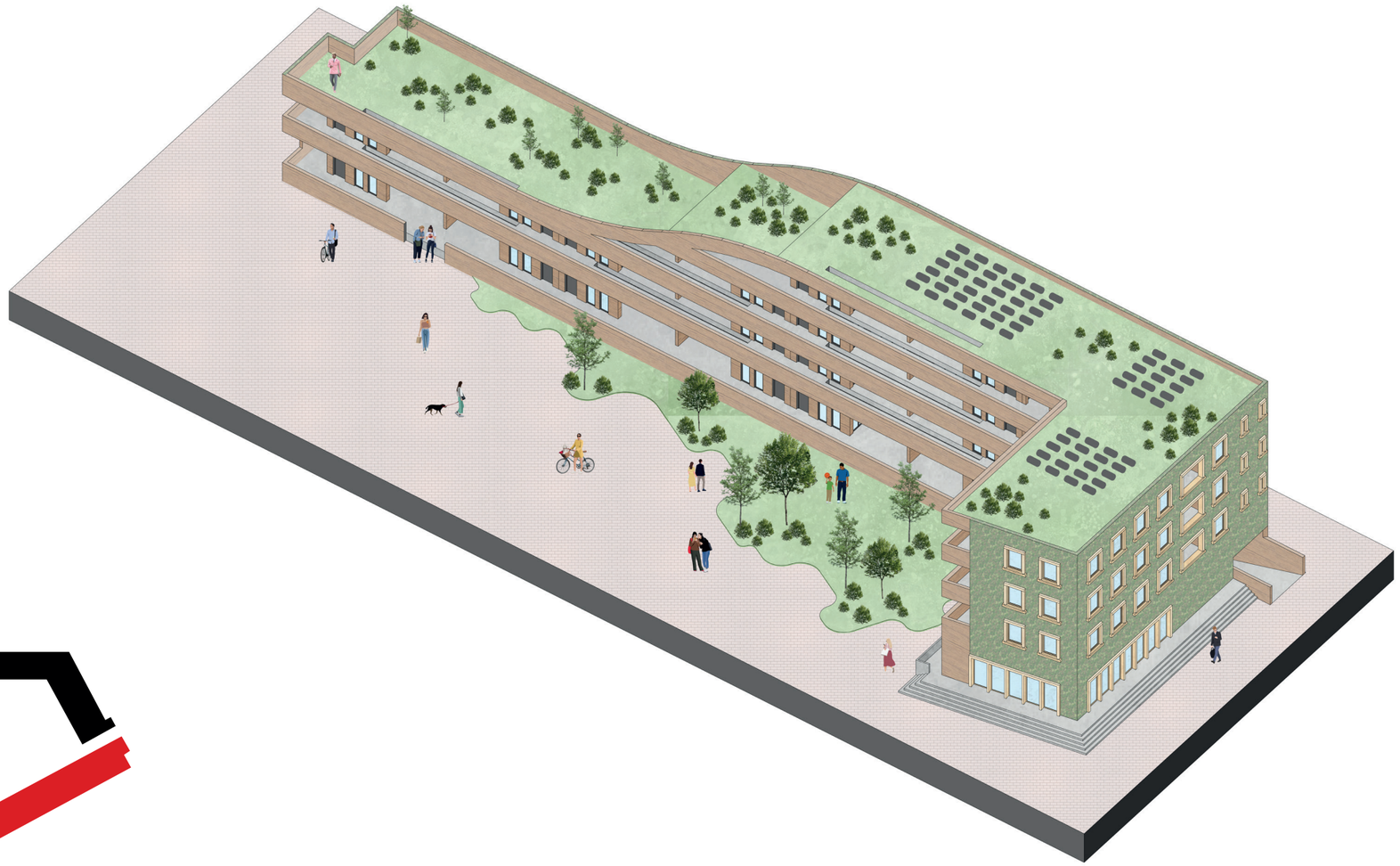


Step 8: Adding the Pavillion

Symphony

Meet the walls

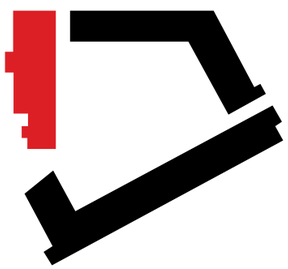
Meet the walls



The Functional wall

Meet the walls





The Historical wall

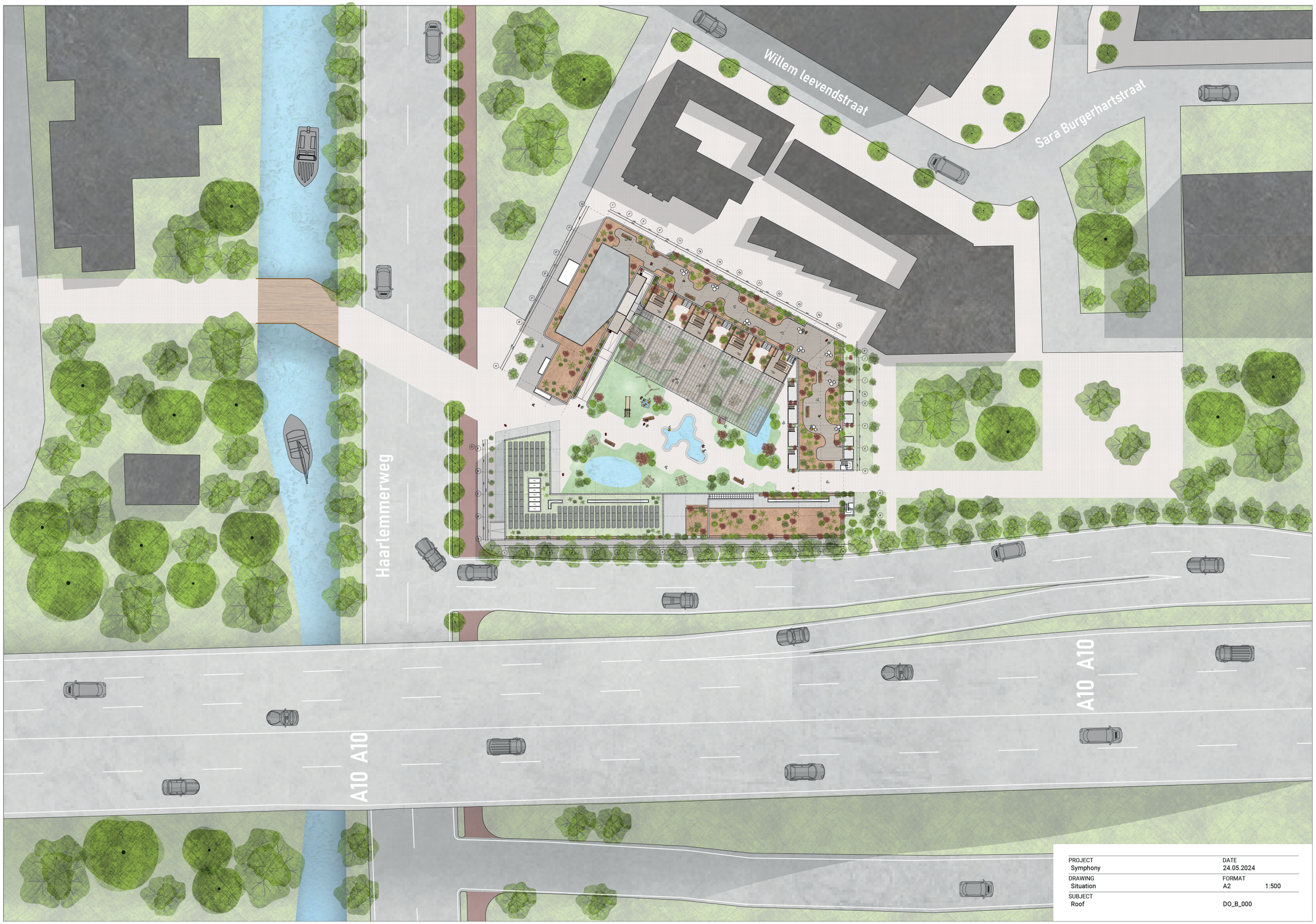
Meet the walls



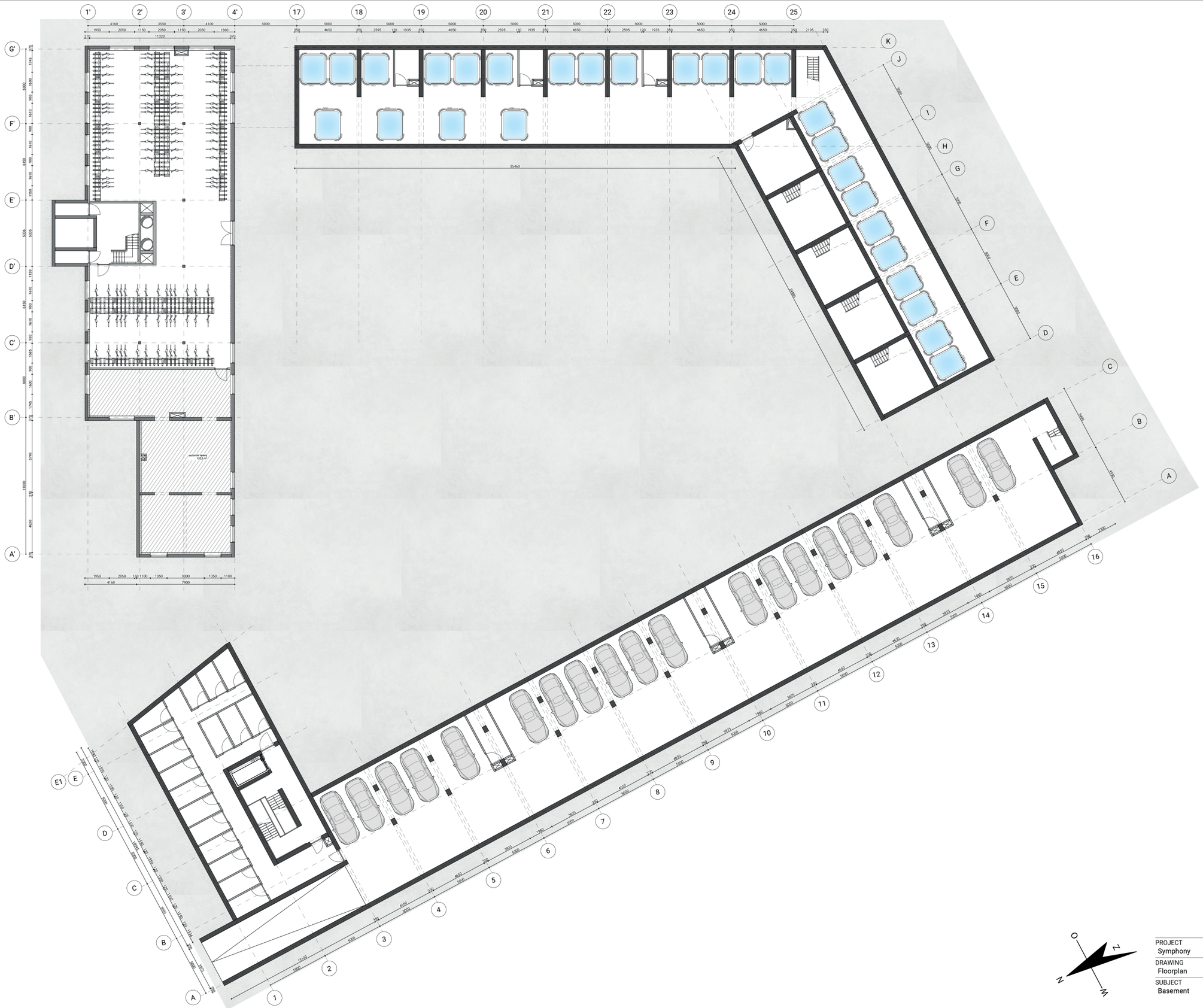
The Esthetical wall

Symphony

Floorplans



PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
Situation	A2 1:500
SUBJECT	
Roof	DO_B_000



PROJECT	DATE	
Symphony	24.05.2024	
DRAWING	FORMAT	
Floorplan	A2	1:100
SUBJECT		
Basement	DO_B_1-1	



PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
Floorplan	A2 1:100
SUBJECT	
Ground Floor	DO_B_100


PROJECT
Symphony
DATE
24.05.2024
DRAWING
Floorplan
FORMAT
A2
1:100
SUBJECT
1st floor (+2nd floor existing building)
DO_B_110



PROJECT Symphony	DATE 24.05.2024
DRAWING Floorplan	FORMAT A2 1:100
SUBJECT 2nd floor + pavillion	DO_B_120



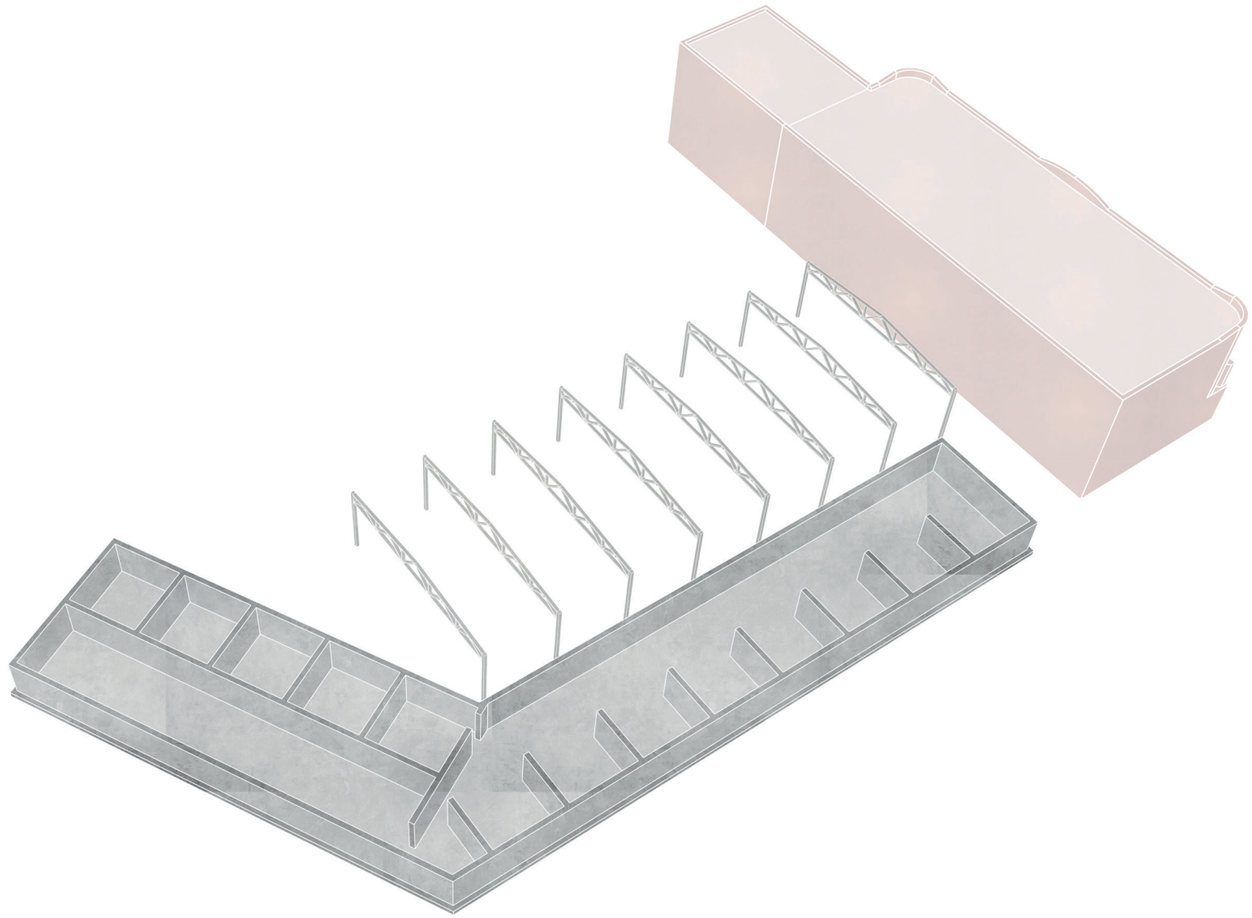
PROJECT Symphony	DATE 24.05.2024
DRAWING Floorplan	FORMAT A2 1:100
SUBJECT 3rd floor	DO_B_130


1'
2'
3'
4'
17
18
19
20
21
22
23
24
25
4150
3550
4100
5000
5000
5000
5000
5000
5000
5000
5000
5000
12060
4875
42675
G'
F'
E'
D'
C'
B'
A'
6000
6150
6150
6000
11000
30135
3336
19845
K
J
I
H
G
F
E
D
C
B
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
E1
E
D
C
B
A
3000
3000
3000

Symphony

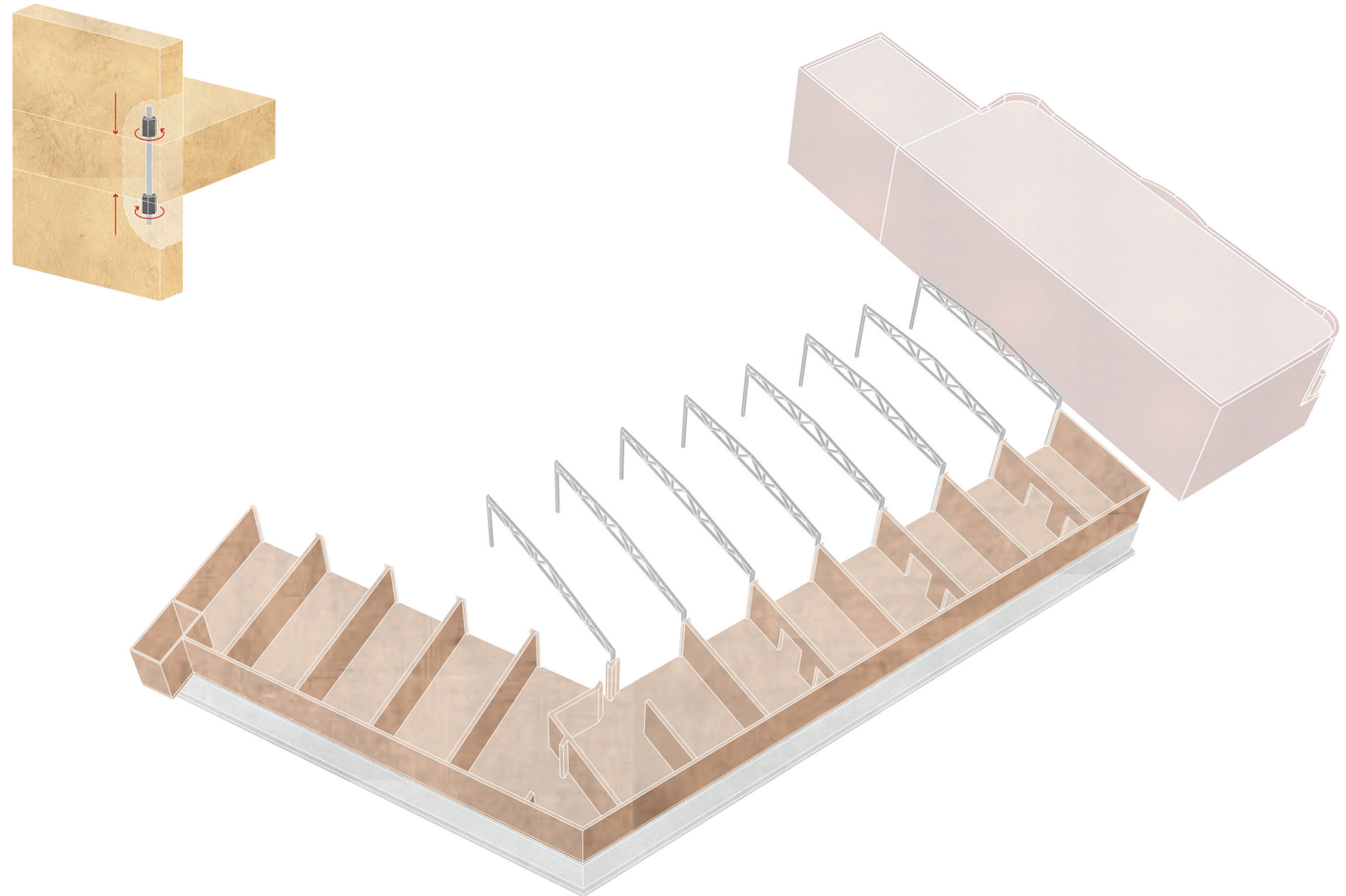
Construction build-up

Construction build-up



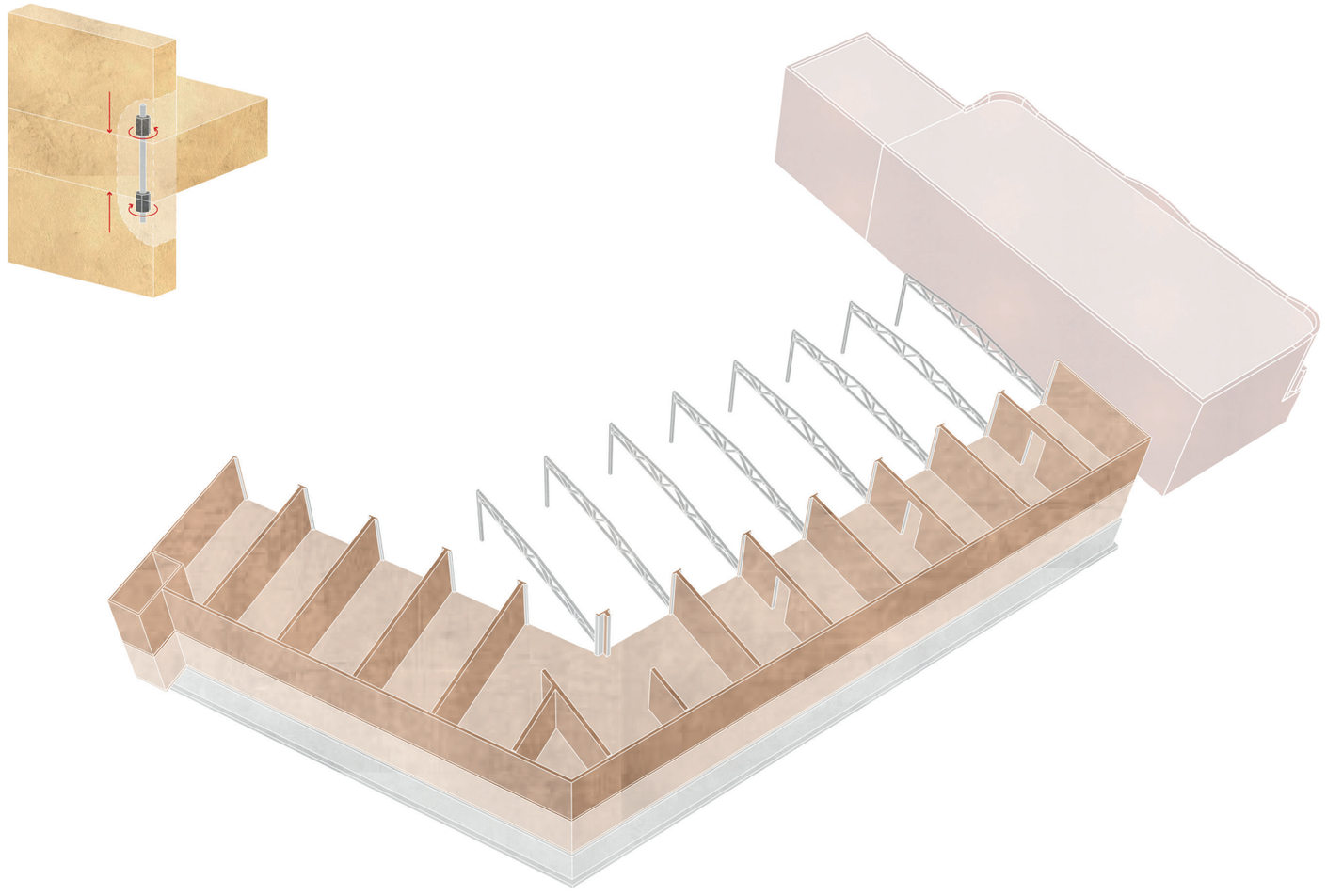
Step 1: Concrete basement

Construction build-up



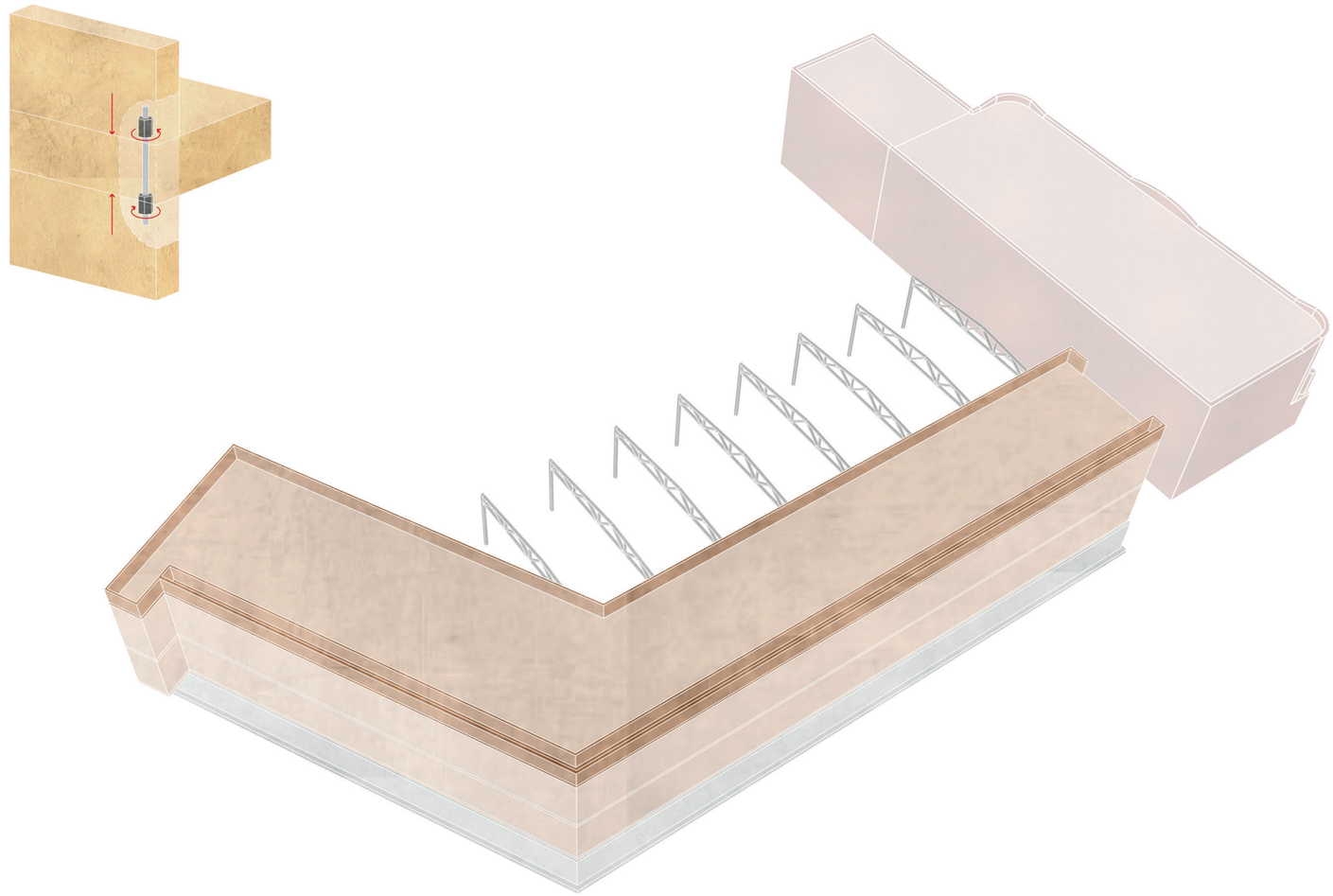
Step 2: CLT floor & walls ground floor

Construction build-up



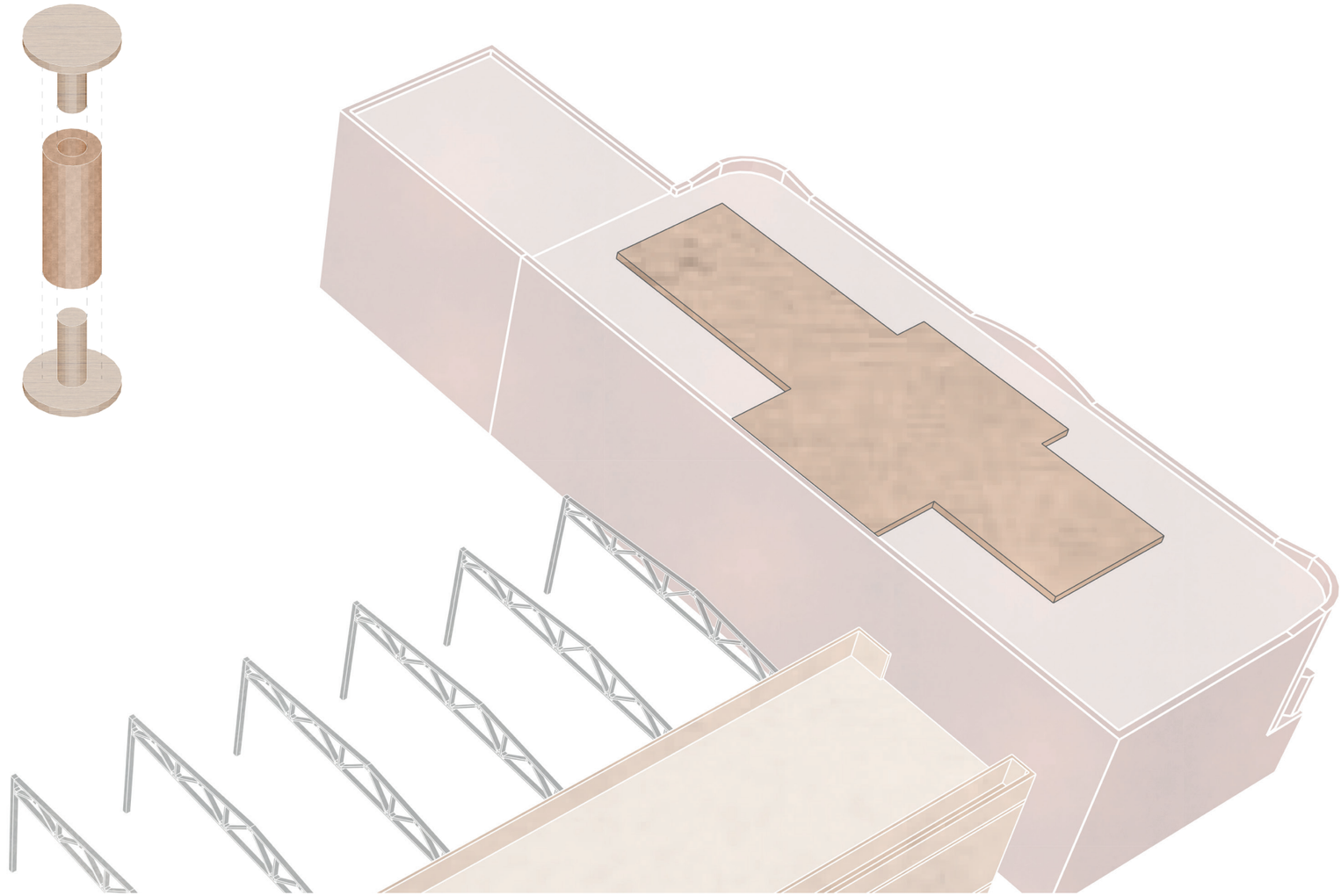
Step 3: CLT floor & walls 1st floor

Construction build-up



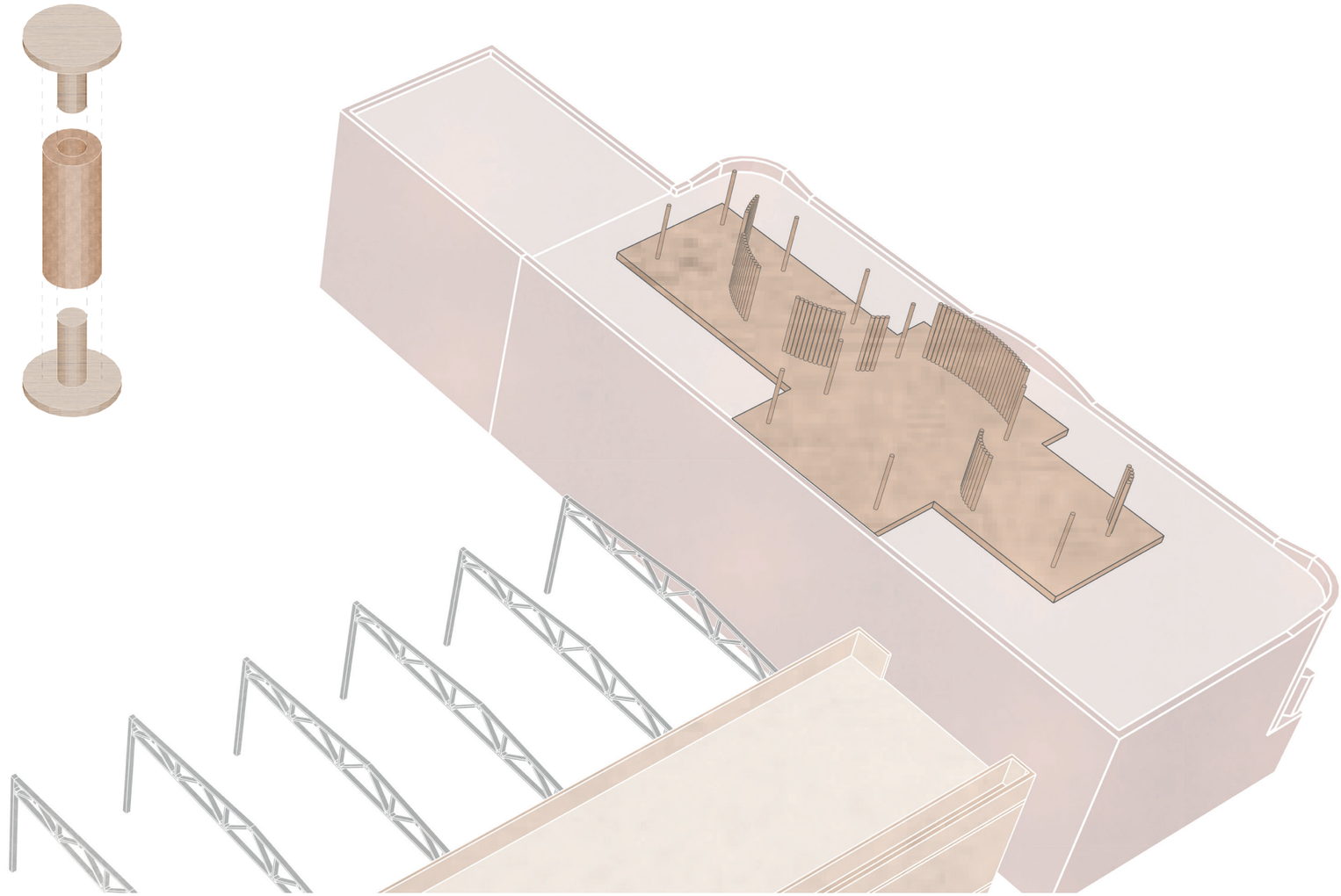
Step 4: CLT roof & roof edge

Construction build-up



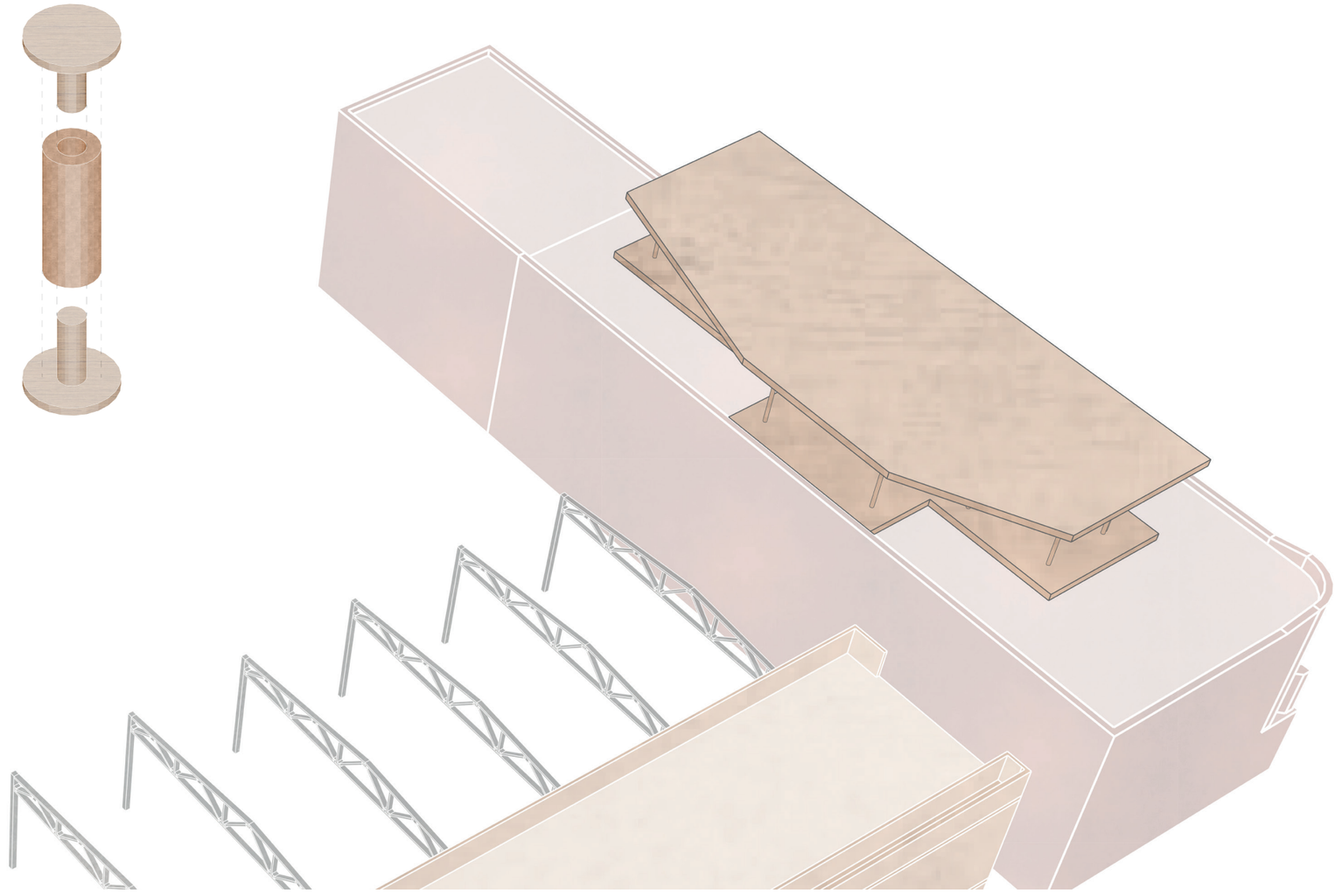
Step 5: Pavillion floor

Construction build-up



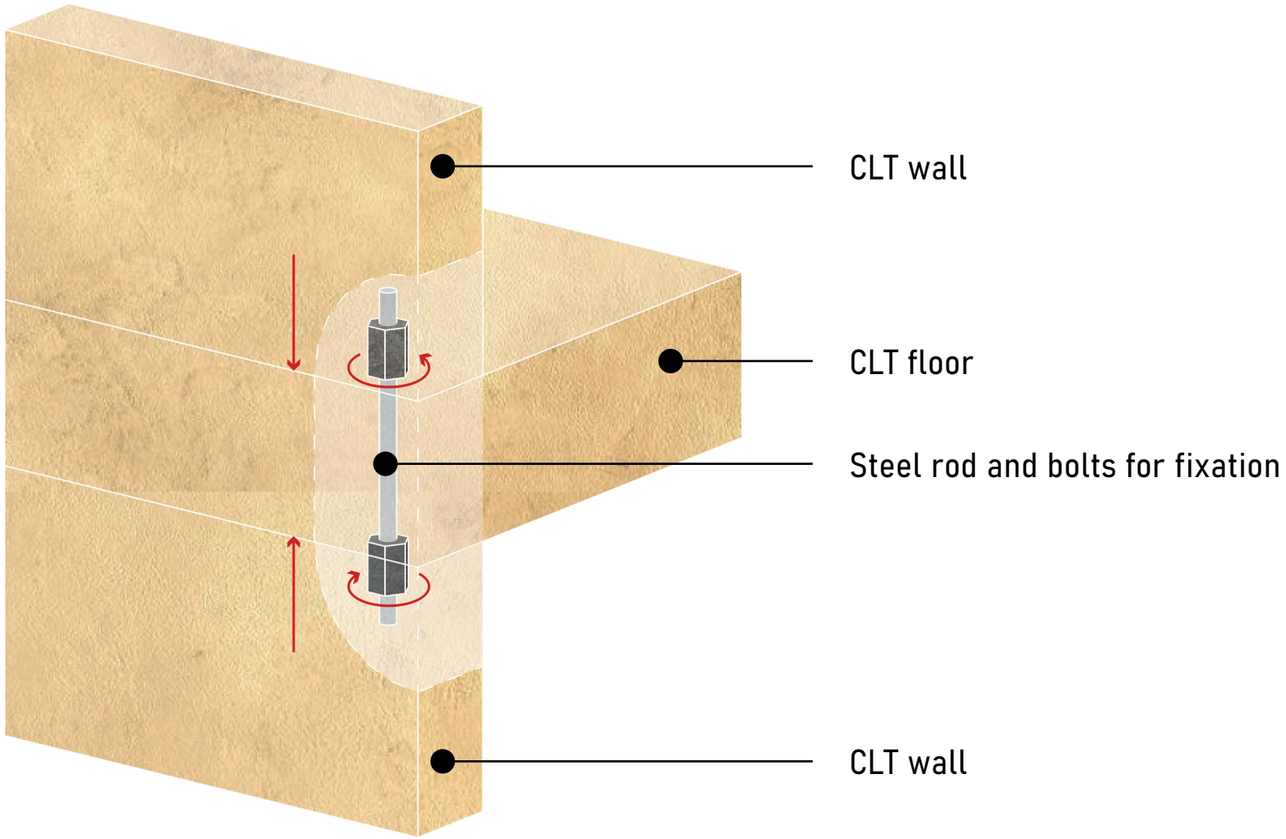
Step 6: Paper columns

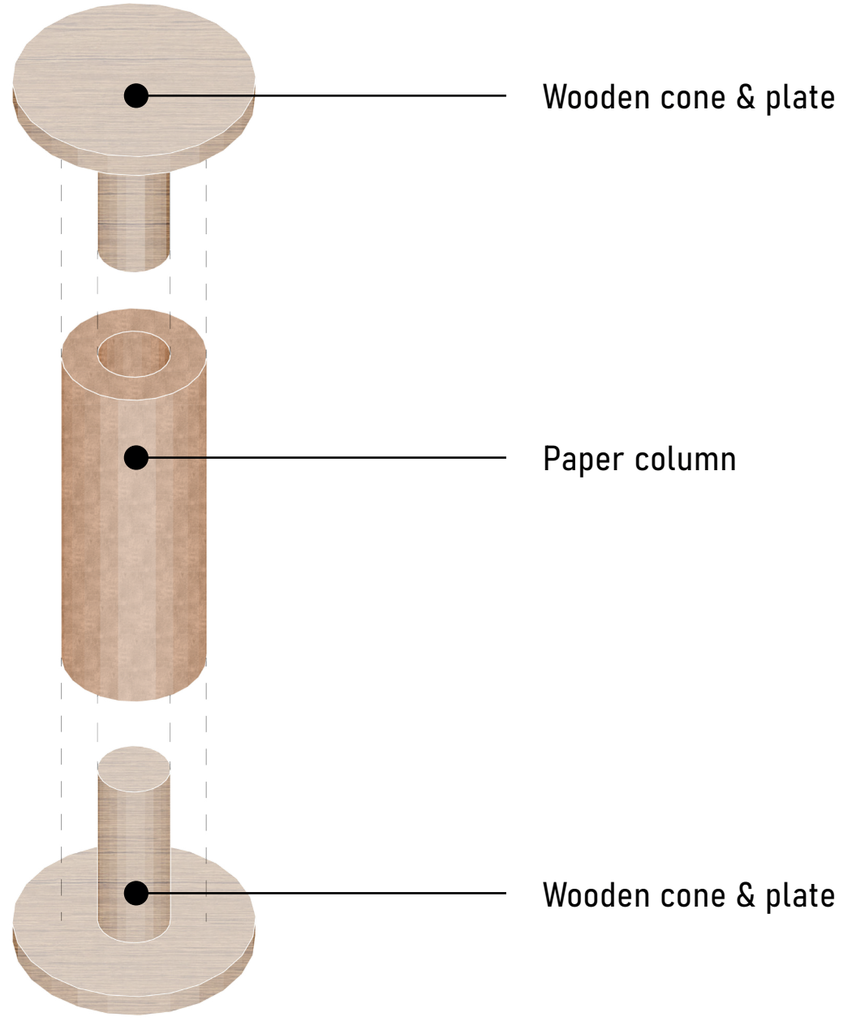
Construction build-up



Step 7: Pavillion roof

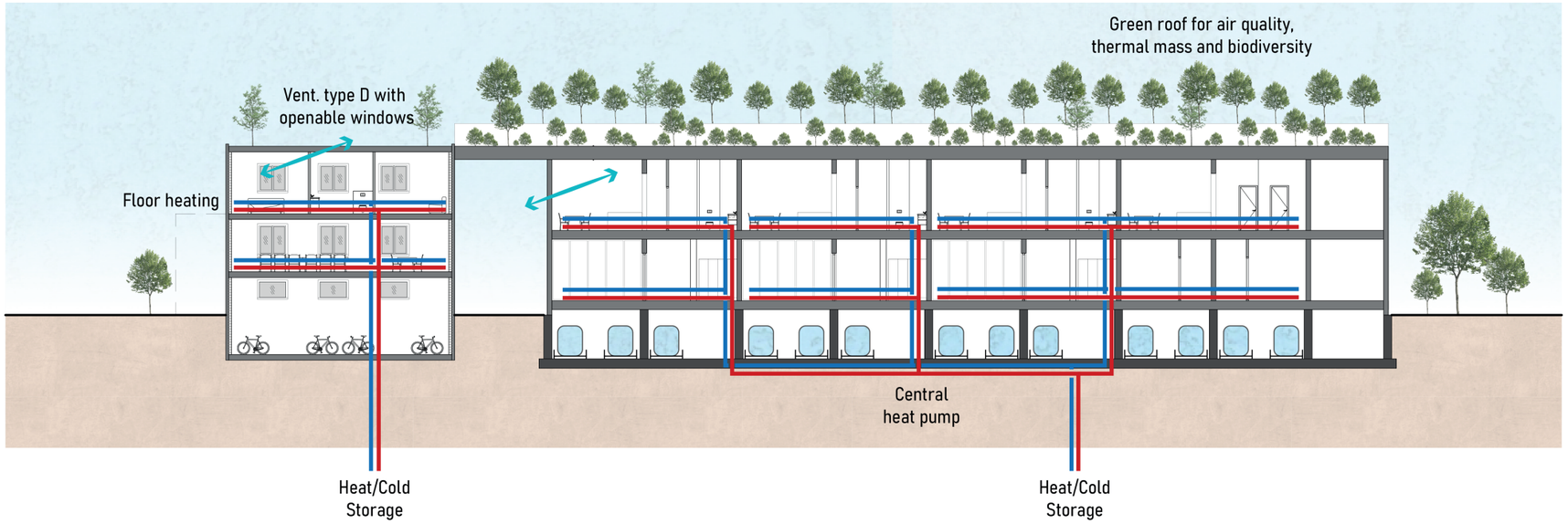
Construction build-up

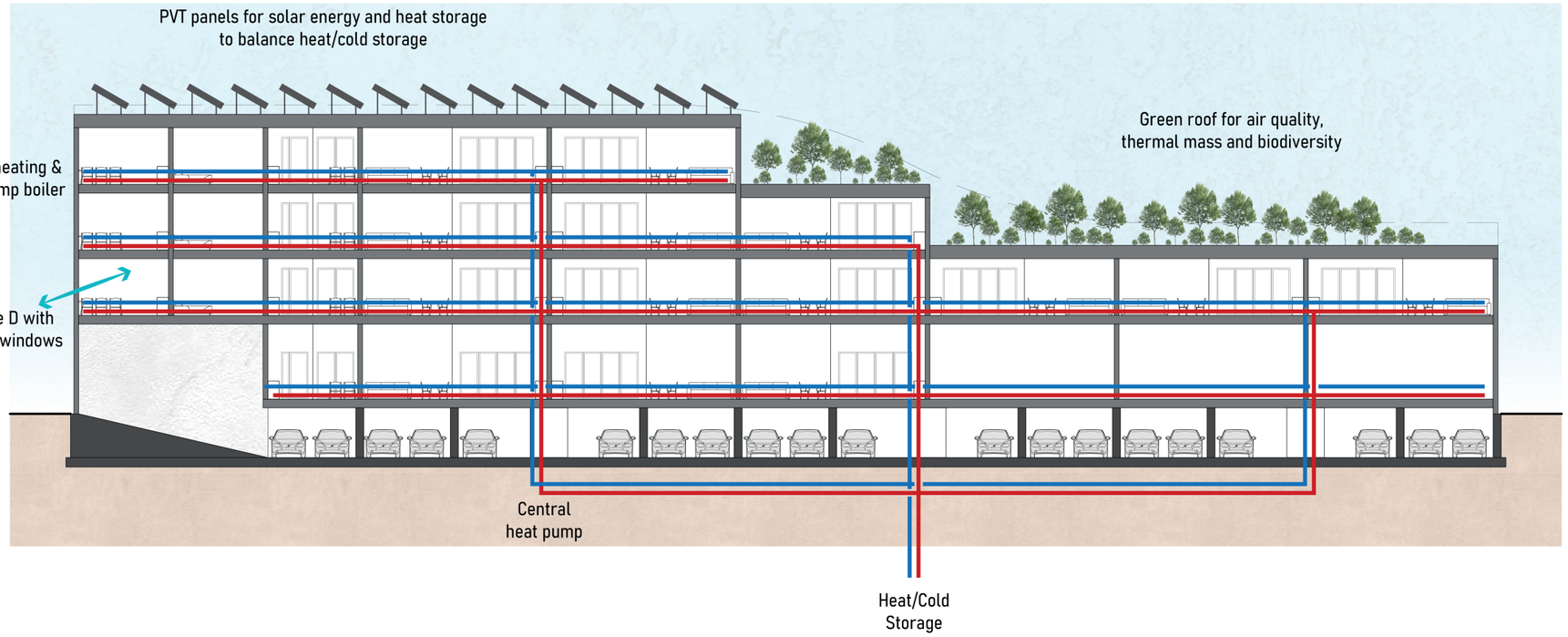




Symphony

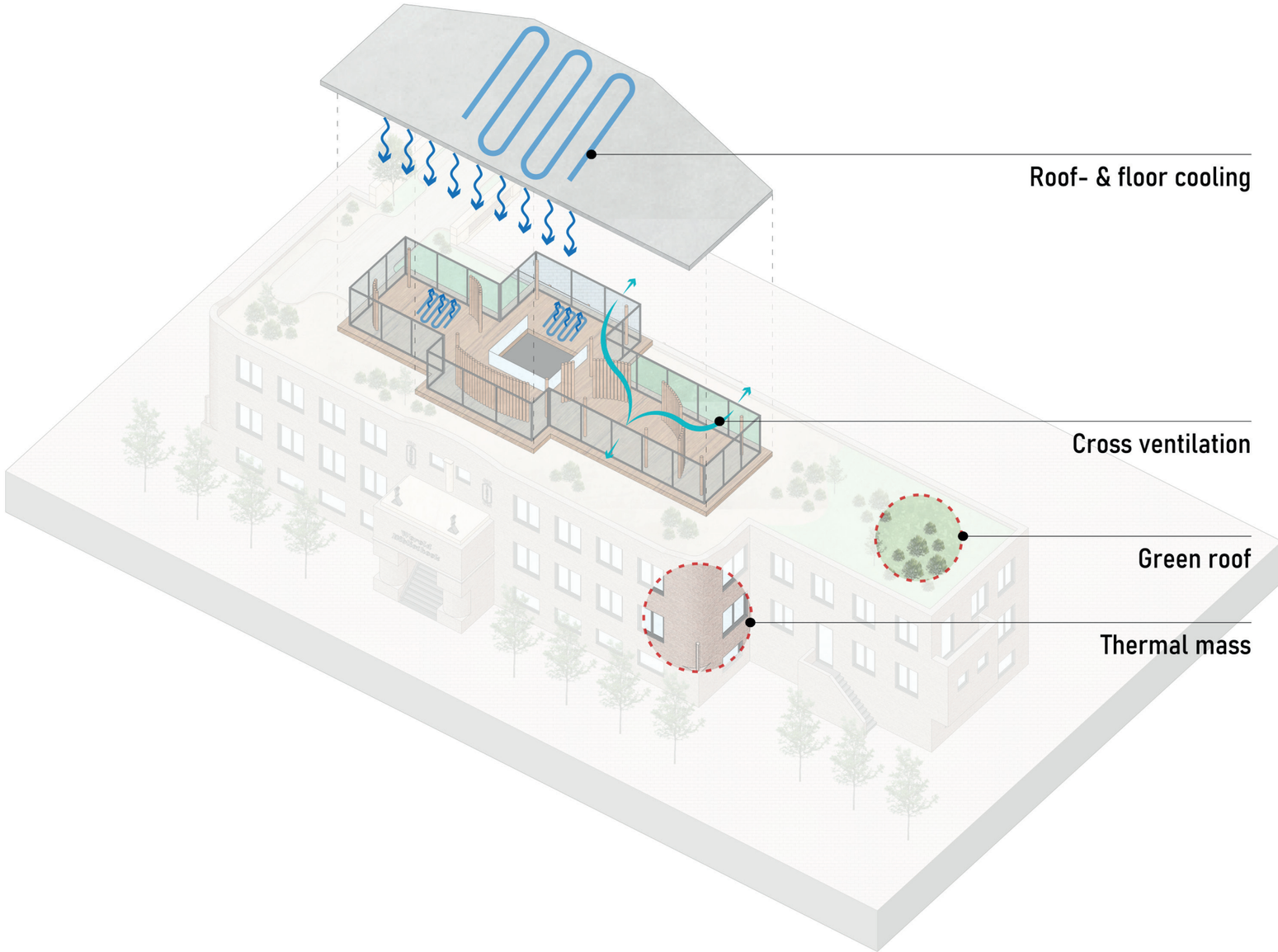
Cross-sections and climate principles





PROJECT Symphony	DATE 24.05.2024
DRAWING Section	FORMAT A2 1:100
SUBJECT Historical wall & Practical wall	DO_B_200

Cross-sections and climate principles



Pavillion climate principle

Symphony

Elevations



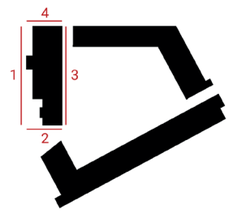
Facade 1

Facade 2



Facade 3

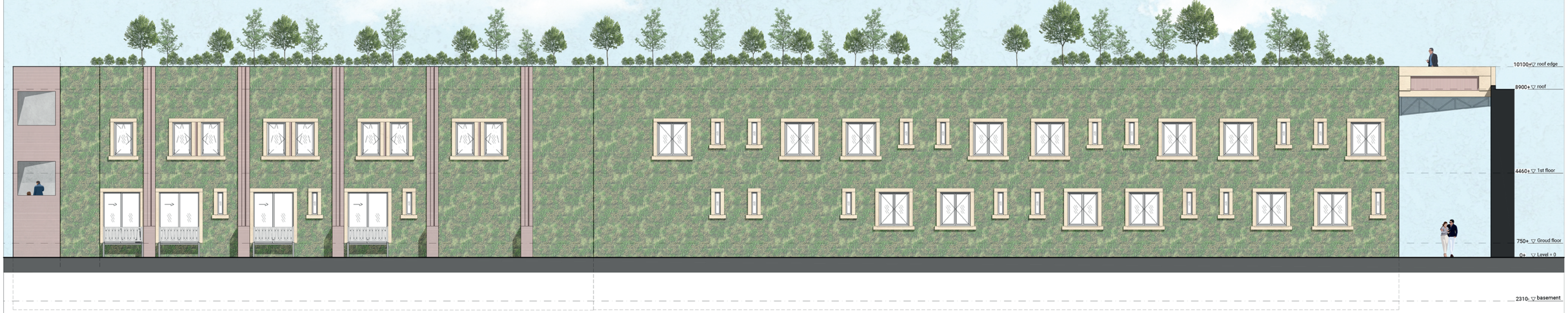
Facade 4



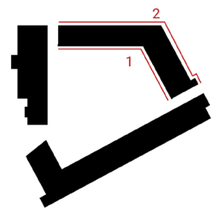
PROJECT Symphony	DATE 24.05.2024
DRAWING Elevation	FORMAT A1 1:100
SUBJECT Existing building	DO_B_300



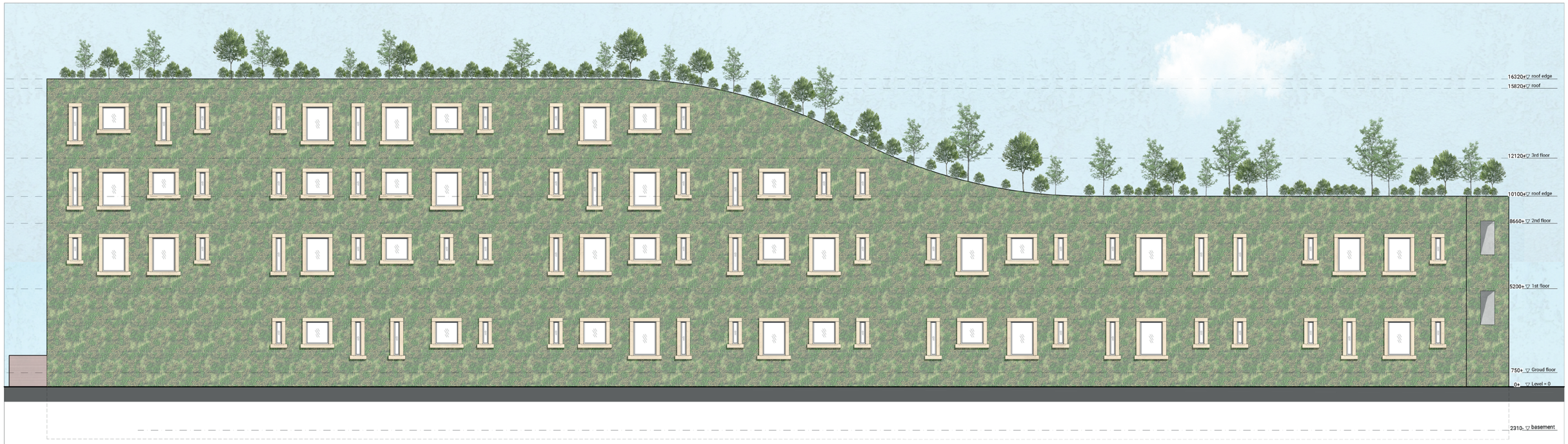
Facade 1



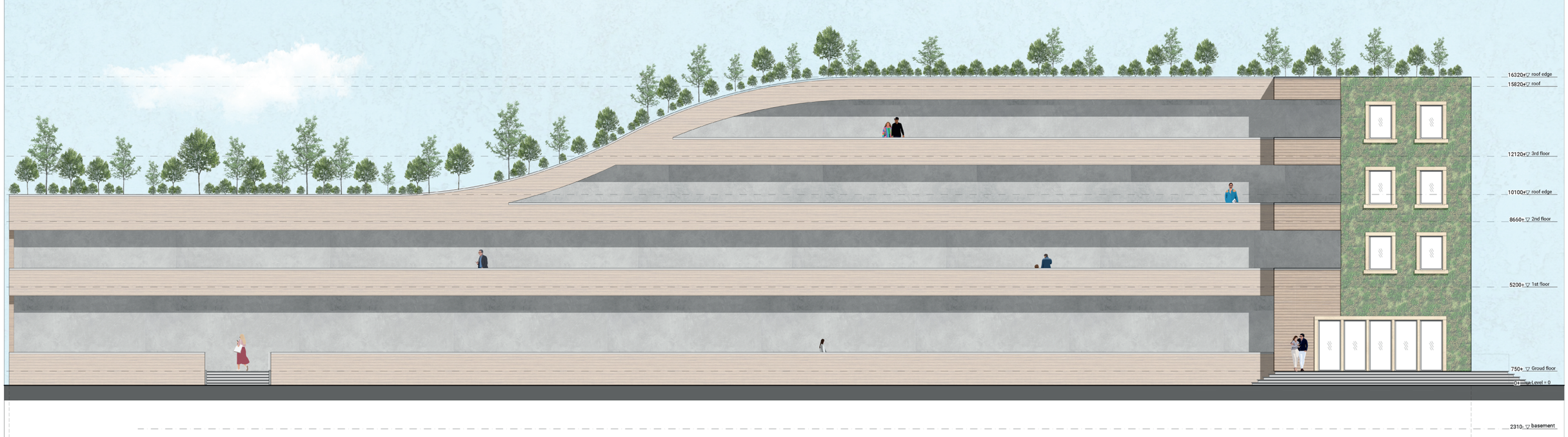
Facade 2



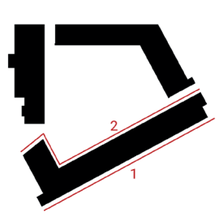
PROJECT Symphony	DATE 24.05.2024
DRAWING Elevation	FORMAT A1 1:100
SUBJECT Esthetical wall - inner and outer facade	DO_B_301



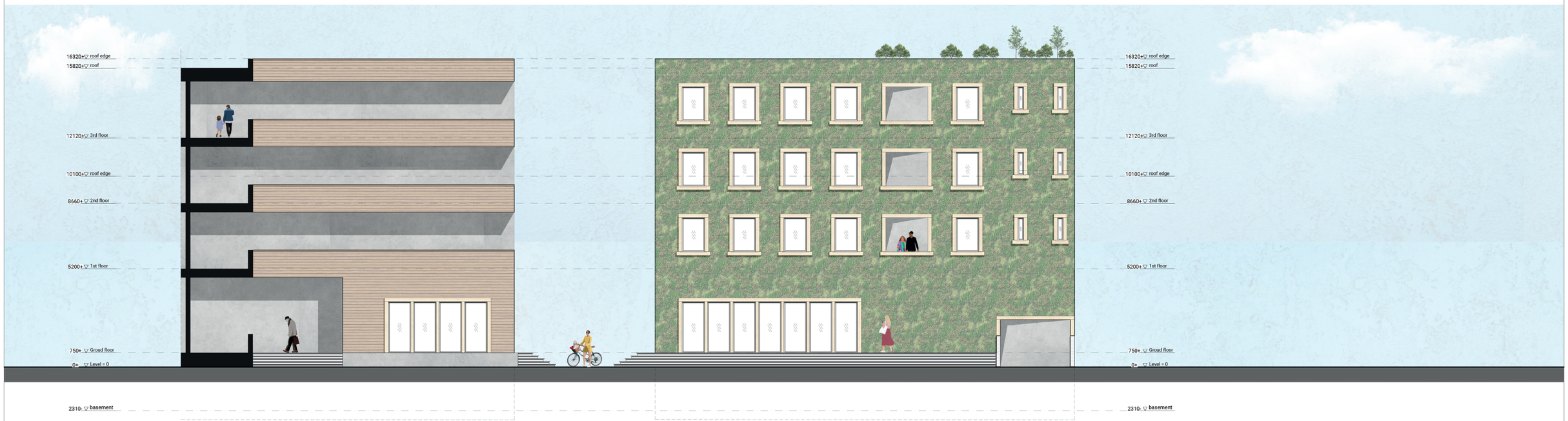
Facade 1



Facade 2



PROJECT Symphony	DATE 24.05.2024
DRAWING Elevation	FORMAT A1 1:100
SUBJECT Practical wall - inner and outer facade	DO_B_302



Facade 1

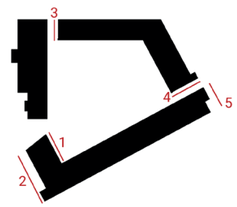
Facade 2



Facade 3

Facade 5

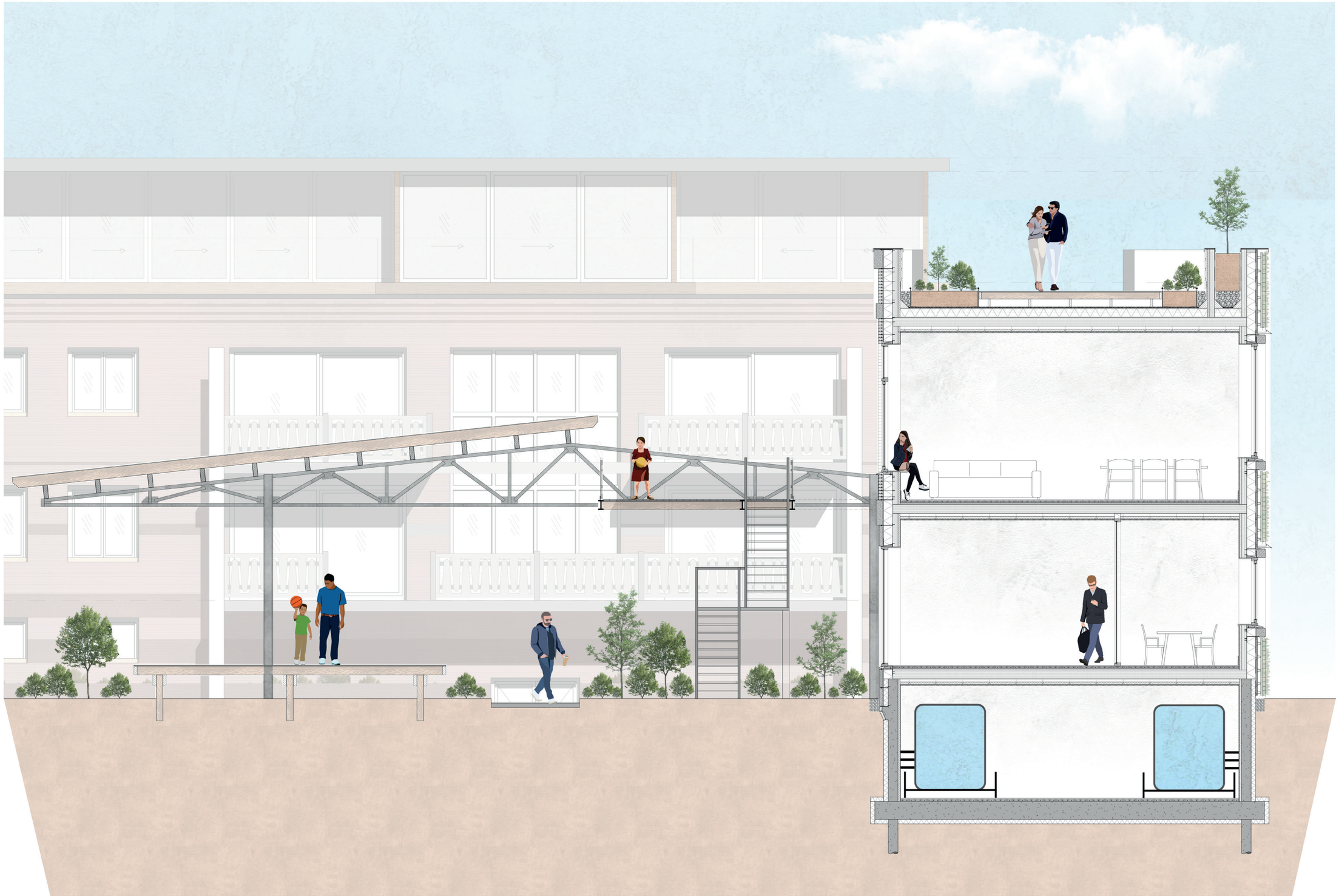
Facade 5



PROJECT Symphony	DATE 24.05.2024
DRAWING Elevation	FORMAT A1 1:100
SUBJECT End facades	DO_B_303

Symphony

Facade fragment



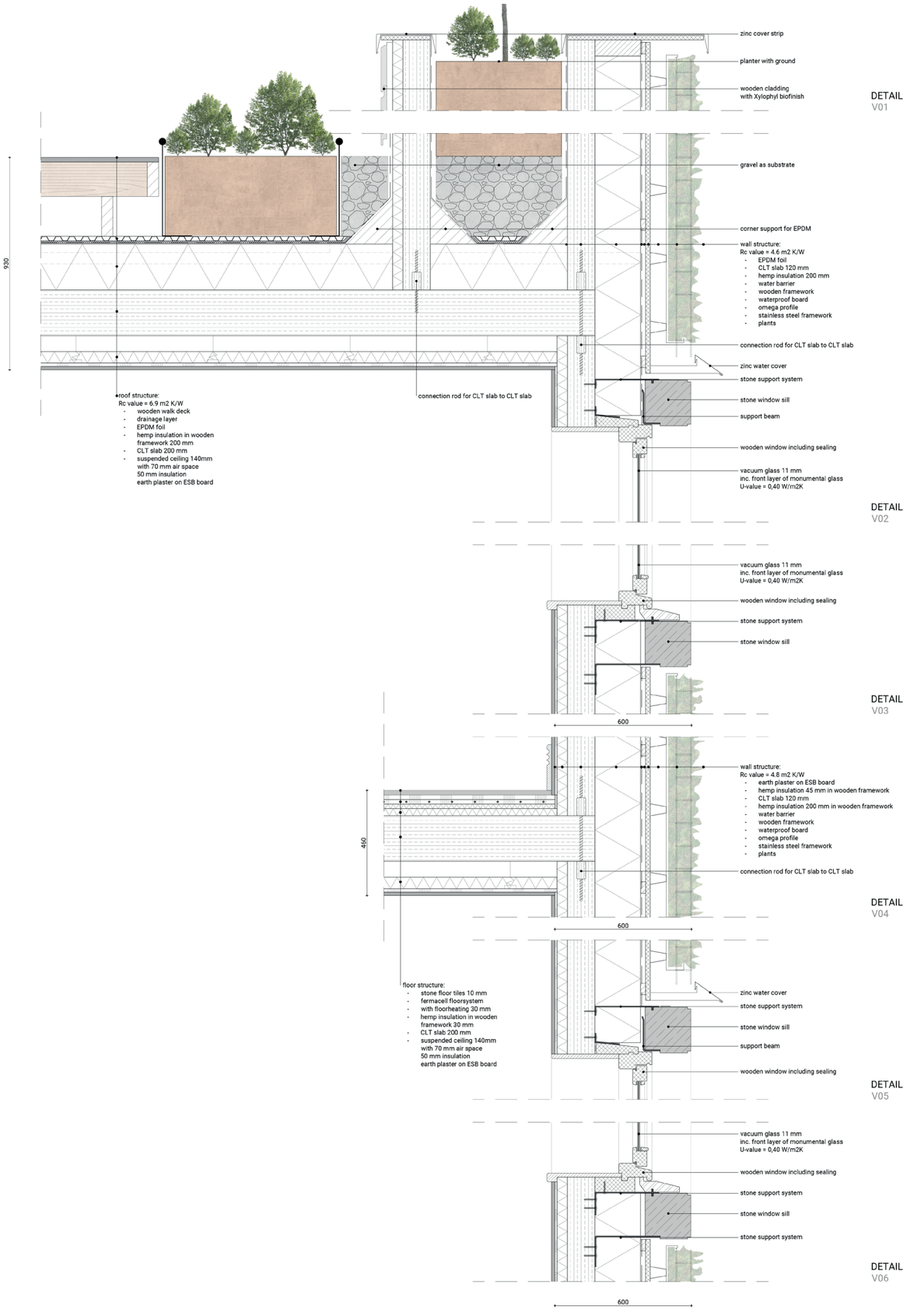
PROJECT Symphony	DATE 24.05.2024
DRAWING 1:20 section	FORMAT A1 1:20 to 1:40
SUBJECT Esthetical wall	DO_B_400

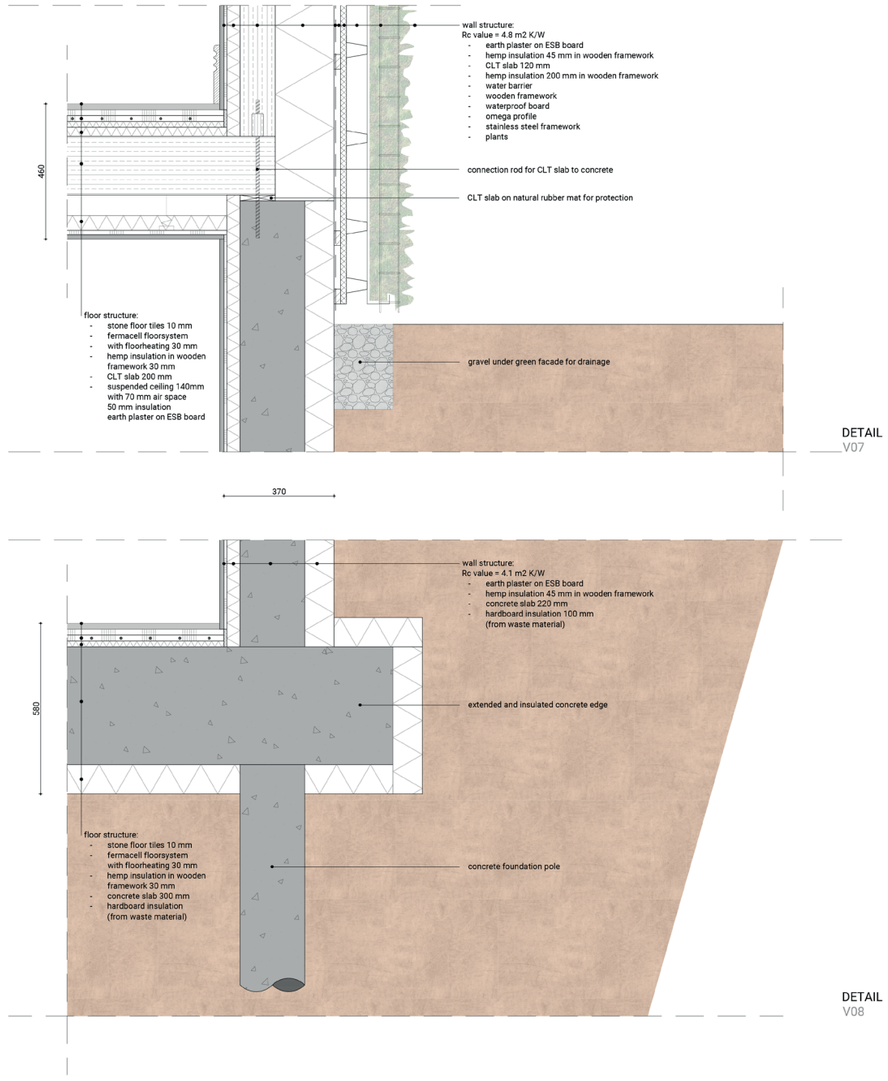


PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
1:20 section	A1 1:20 to 1:40
SUBJECT	
Historical wall	DO_B_401

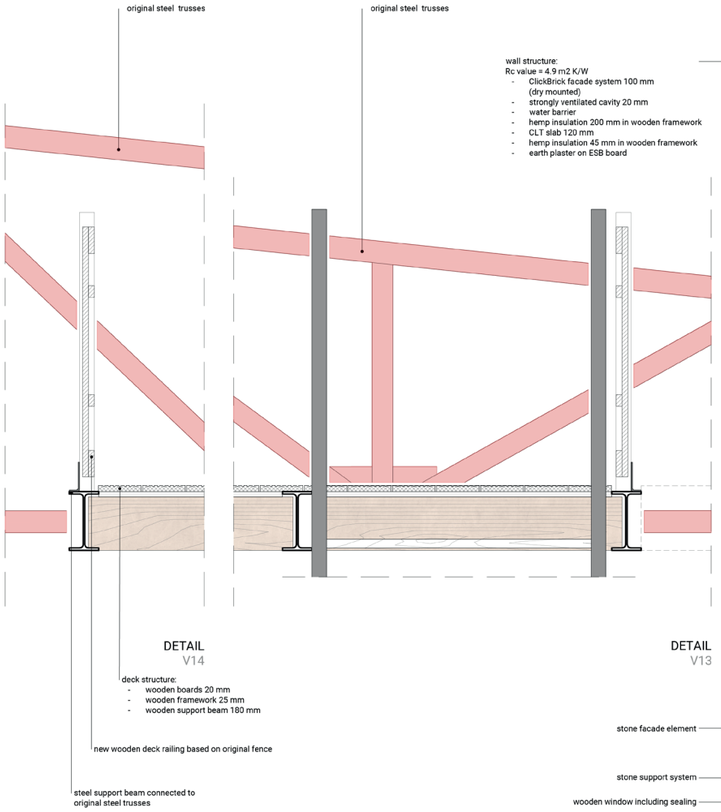
Symphony

Detailling

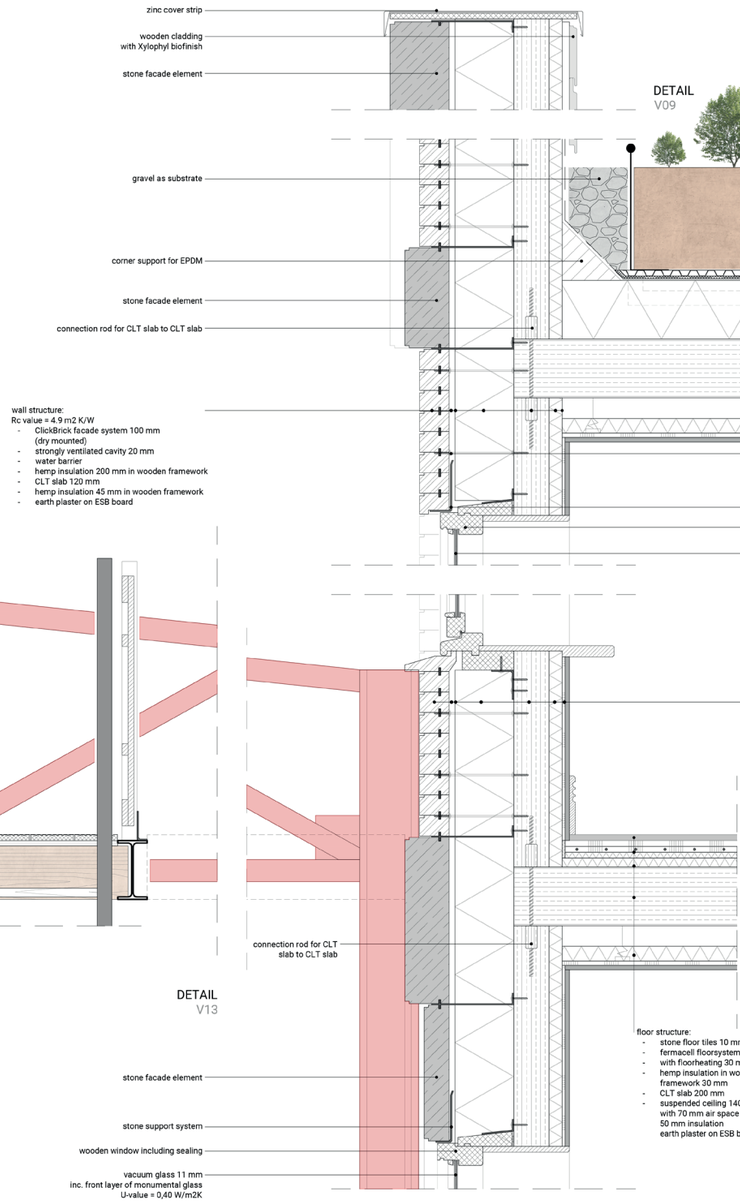




PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
Details	A1 1:5 to 1:10
SUBJECT	
Esthetical wall - green facade	DO_B_600



DETAIL
V14

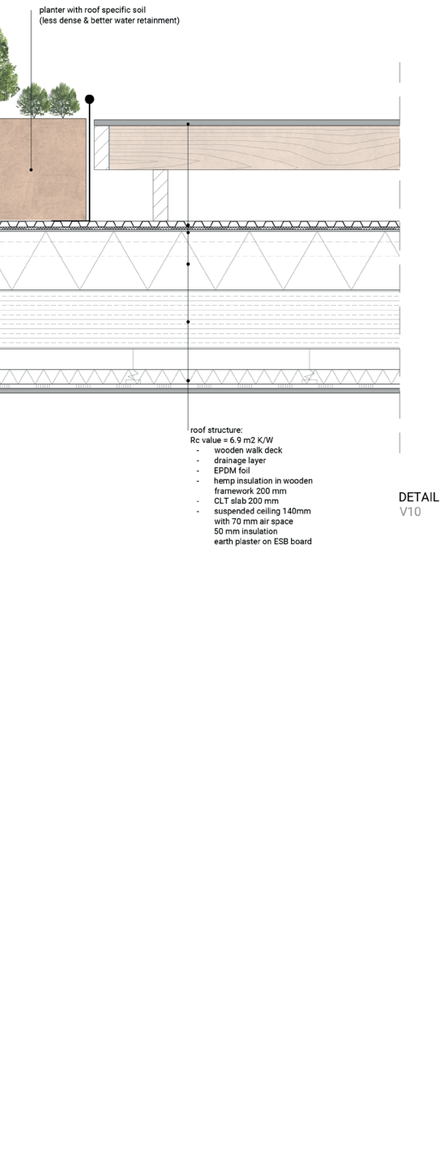


DETAIL
V13

DETAIL
V11

DETAIL
V12

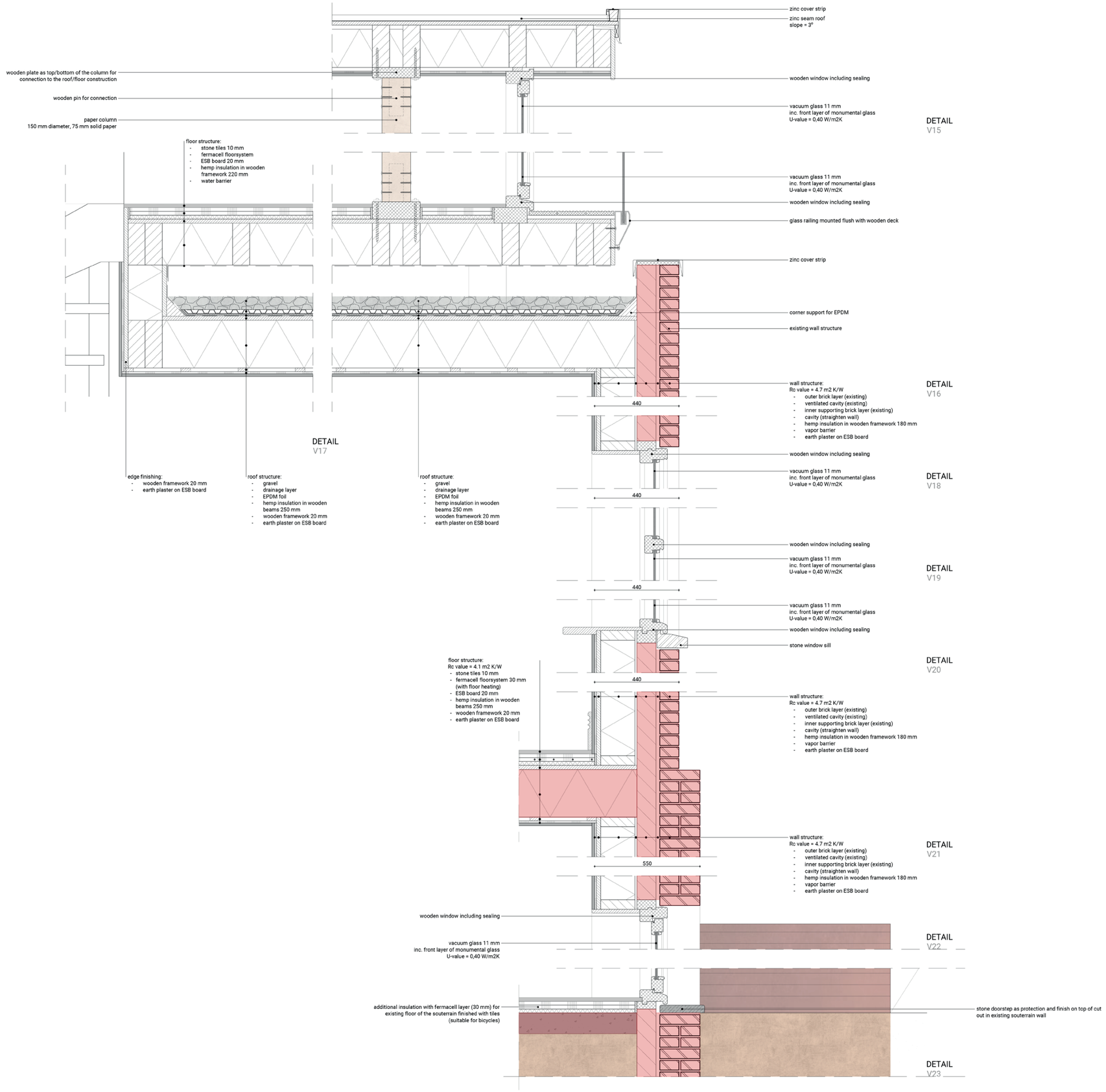
DETAIL
V09



DETAIL
V10

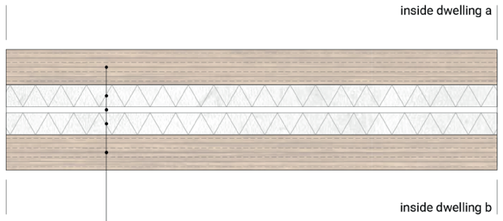
Existing structures

PROJECT Symphony	DATE 24.05.2024
DRAWING Details	FORMAT A1 1:5 to 1:10
SUBJECT Esthetical wall - brick facade	DO_B_601



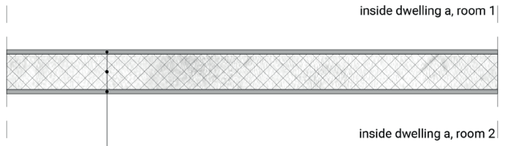
PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
Details	A1 1:5 to 1:10
SUBJECT	
Historical wall - back facade	DO_B_602

NEW WALL TYPES:
interior



DETAIL
H01

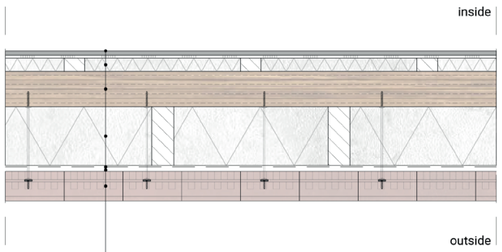
wall structure (dwelling separation wall):
sound reduction = 39 dB
- CLT slab 120 mm
- hemp insulation 75 mm in wooden framework
- cavity 20 mm
- hemp insulation 75 mm in wooden framework
- CLT slab 120 mm



DETAIL
H02

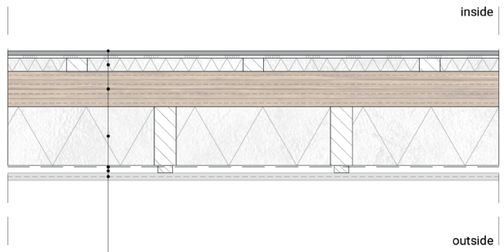
wall structure (room separation wall):
sound reduction = 39 dB
- earth plaster 15 mm
- hemp blocks 120 mm
- earth plaster 15 mm

NEW WALL TYPES:
exterior



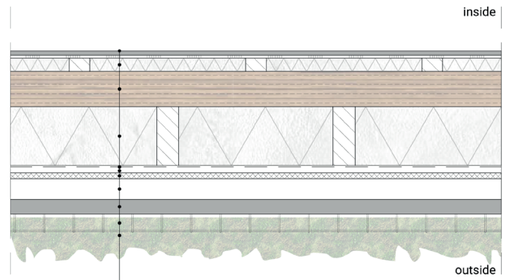
DETAIL
H03

wall structure:
Rc value = 4.9 m2 K/W
- earth plaster on ESB board
- hemp insulation 45 mm in wooden framework
- CLT slab 120 mm
- hemp insulation 200 mm in wooden framework
- water barrier
- strongly ventilated cavity 20 mm
- ClickBrick facade system 100 mm (dry mounted)



DETAIL
H04

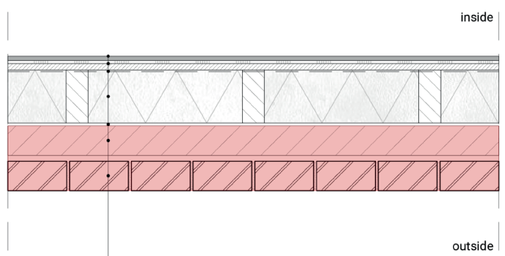
wall structure:
Rc value = 4.8 m2 K/W
- earth plaster on ESB board
- hemp insulation 45 mm in wooden framework
- CLT slab 120 mm
- hemp insulation 200 mm in wooden framework
- water barrier
- wooden framework
- wooden cladding (with Xylophyl biofinish)



DETAIL
H05

wall structure:
Rc value = 4.8 m2 K/W
- earth plaster on ESB board
- hemp insulation 45 mm in wooden framework
- CLT slab 120 mm
- hemp insulation 200 mm in wooden framework
- water barrier
- wooden framework
- waterproof board
- omega profile
- stainless steel framework
- plants

EXISTING WALL TYPES:



DETAIL
H06

wall structure:
Rc value = 4.7 m2 K/W
- outer brick layer (existing)
- ventilated cavity (existing)
- inner supporting brick layer (existing)
- cavity (straighten wall)
- hemp insulation in wooden framework 180 mm
- vapor barrier
- earth plaster on ESB board

Existing structures

PROJECT	DATE
Symphony	24.05.2024
DRAWING	FORMAT
Details	A1 1:5 to 1:10
SUBJECT	
Facade types	DO_B_603

Symphony

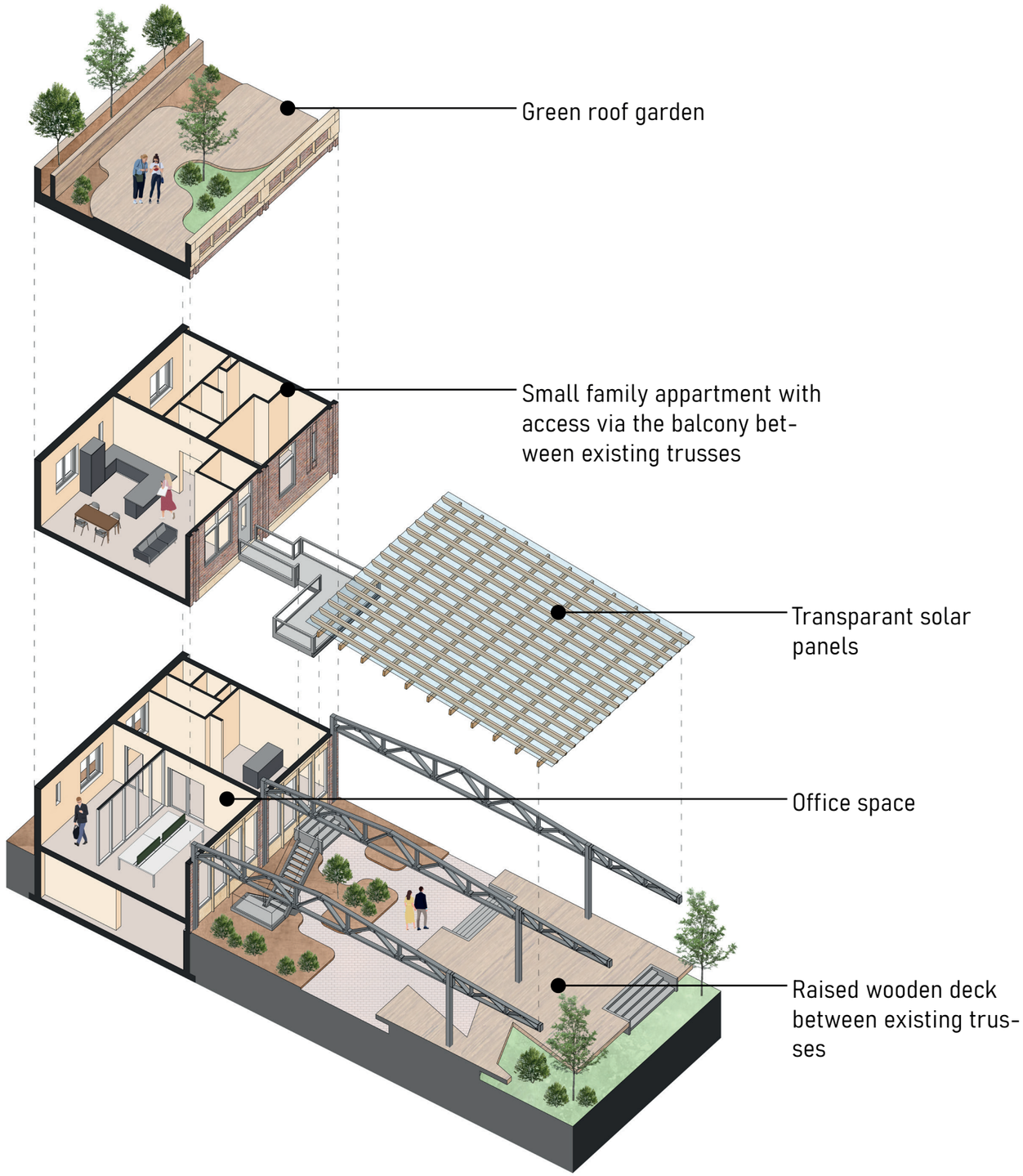
Axonometric views

Pavillion on Historical wall



The Pavillion

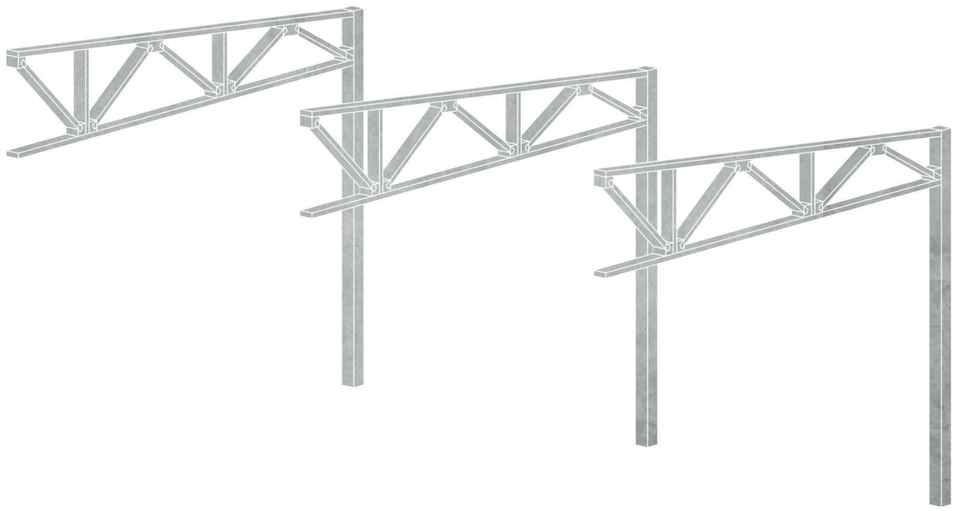
Axonometric view: Esthetical wall



Office & appartment

Esthetical wall conceptual build-up

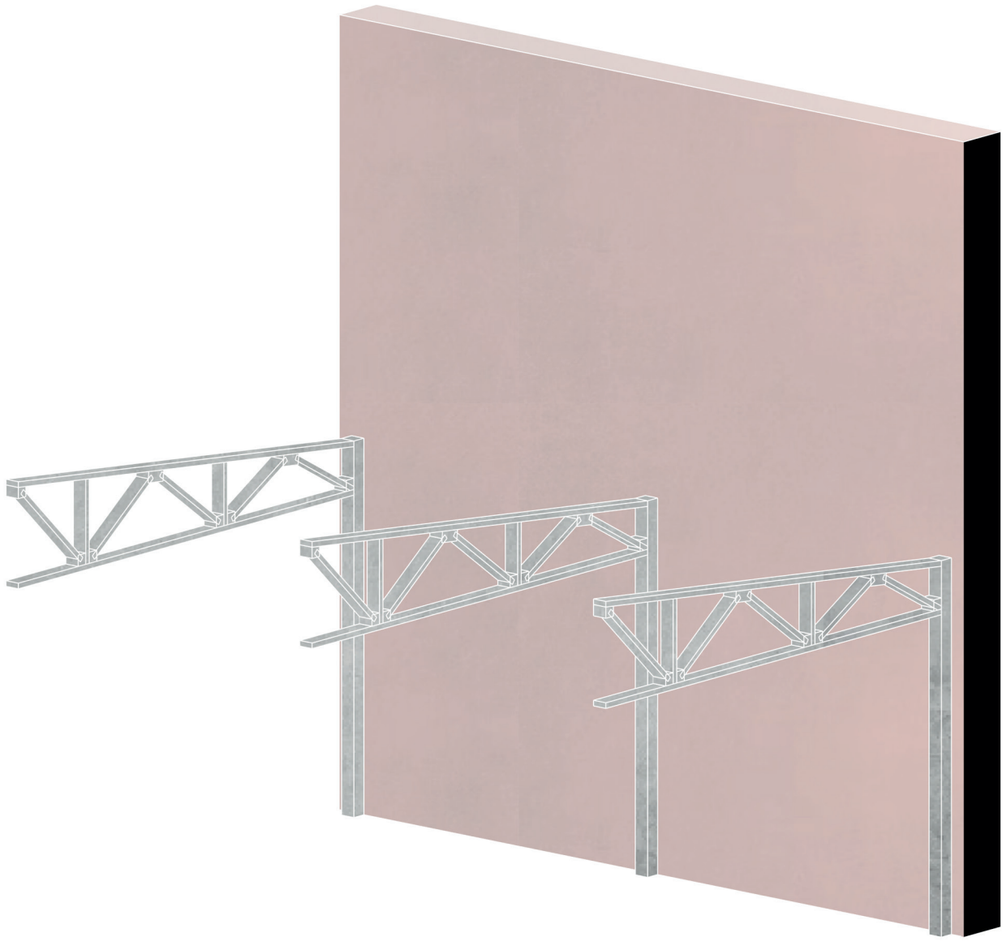




Step 1: steel trusses

Esthetical wall conceptual build-up

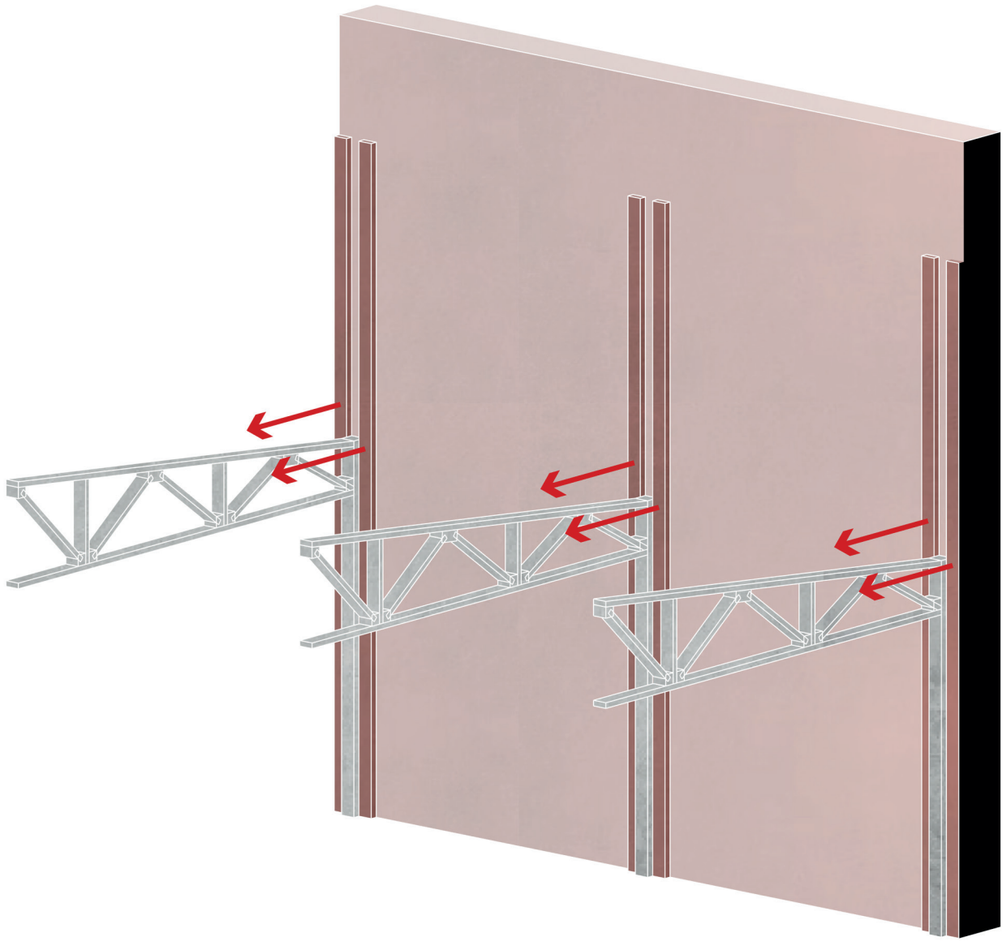




Step 2: Wall addition

Esthetical wall conceptual build-up

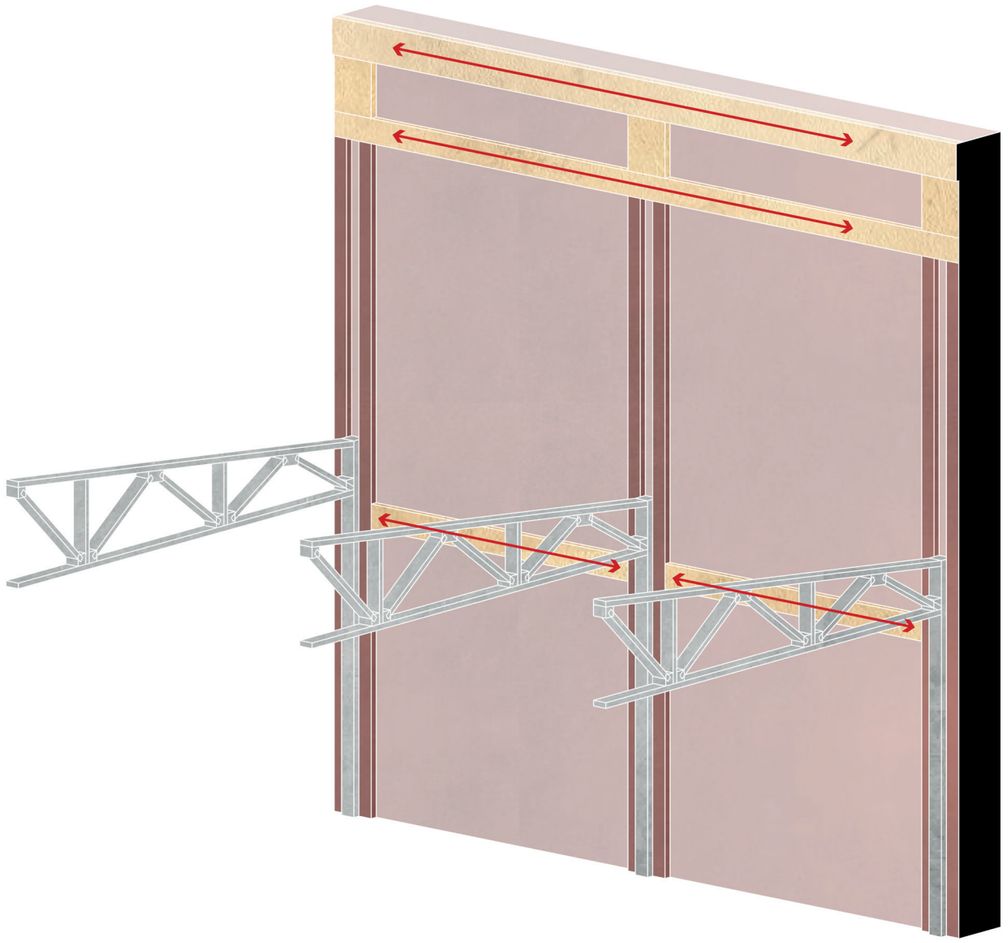




Step 3: Vertical masonry columns

Esthetical wall conceptual build-up





Step 4: Horizontal stone elements

Symphony

Renders

Backside Historical wall



Evening render



Pavillion on Historical wall



Green & brick facade



Below the trusses



Streetside



Total overview of the garden

