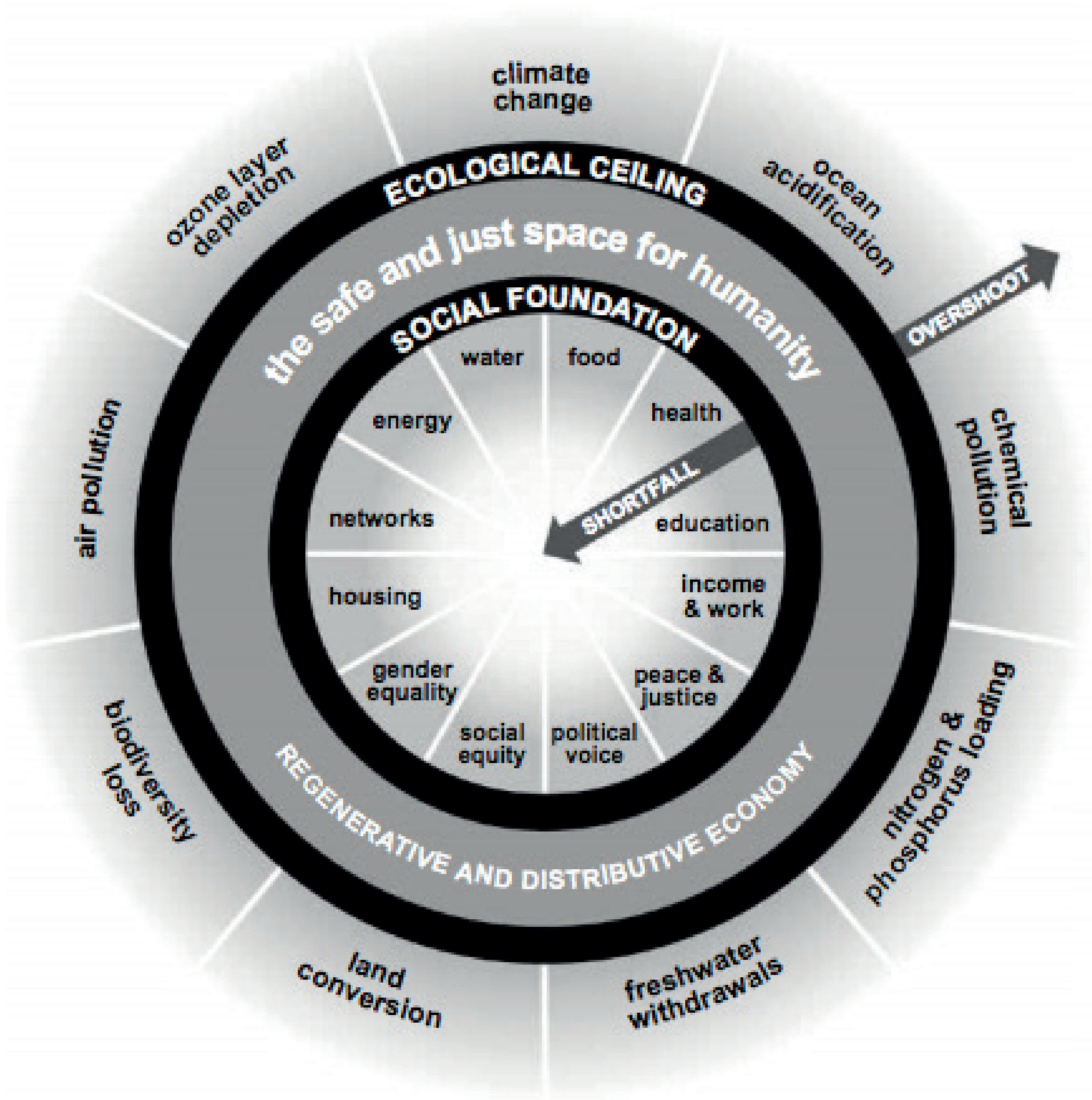
Beyond the garden

Integration of the natural world
within the city life

Loes Bruins Slot

Tourism Amsterdam

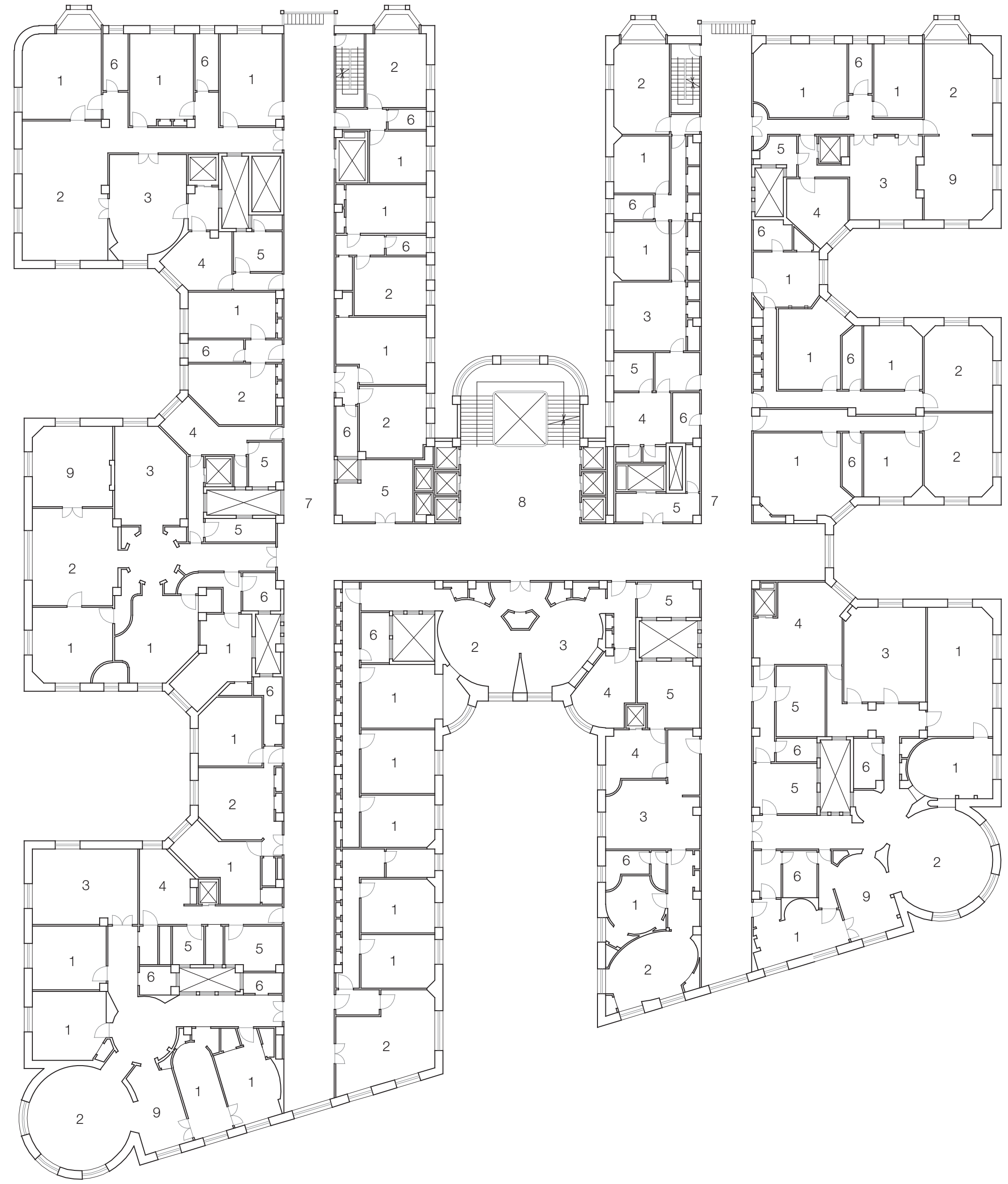


Doughnut Economics Model
Kate Raworth

Loneliness in the city

Young people

City Hotel



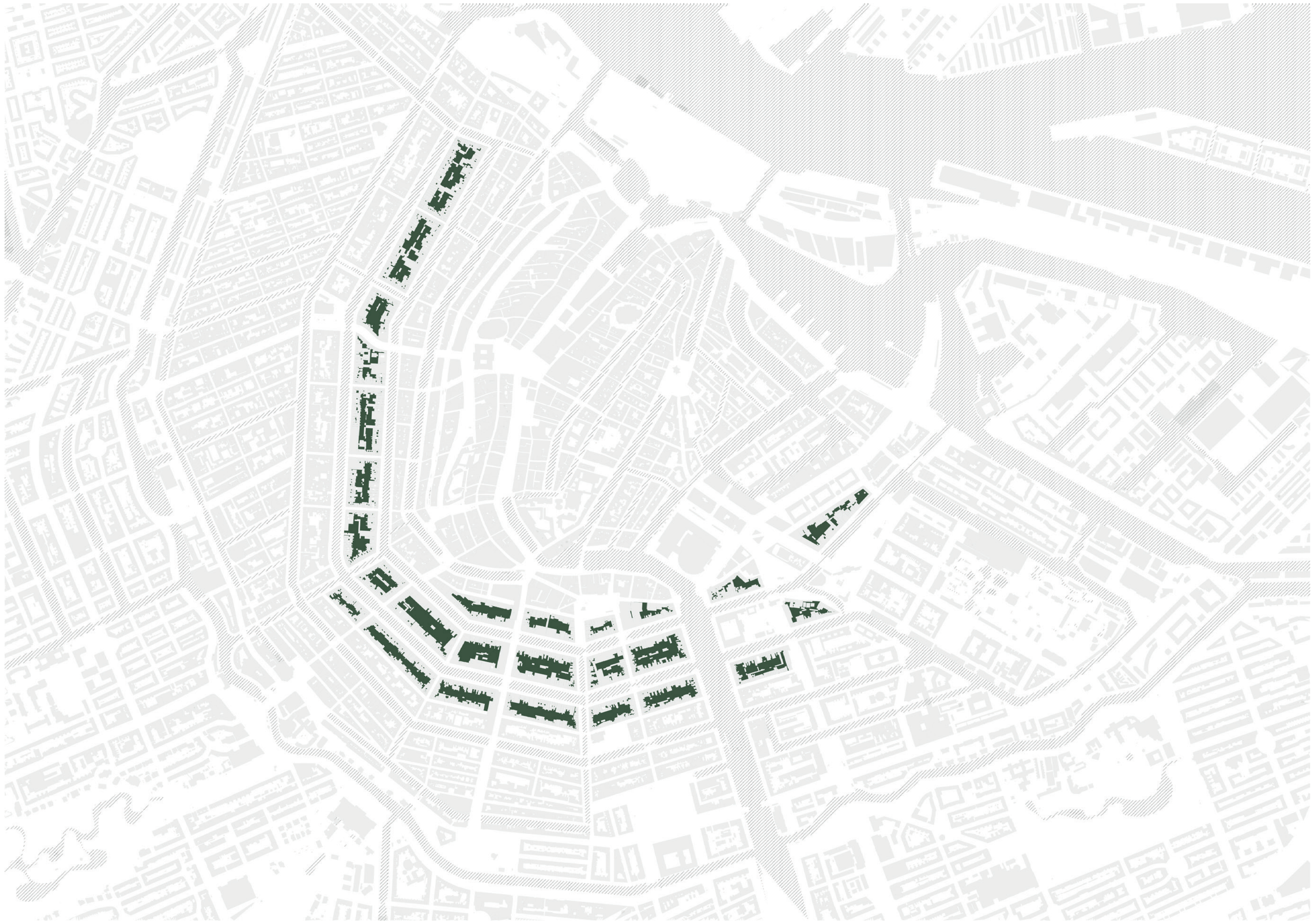
↑ The standard plan of the Ansonia Hotel
5.35
1 : 400

1	Bedroom	4	Kitchen	7	Corridor		
2	Living room	5	Service room	8	Main hall		
3	Dinning room	6	Bathroom	9	Library		

Residential hotel
Ansonia Hotel

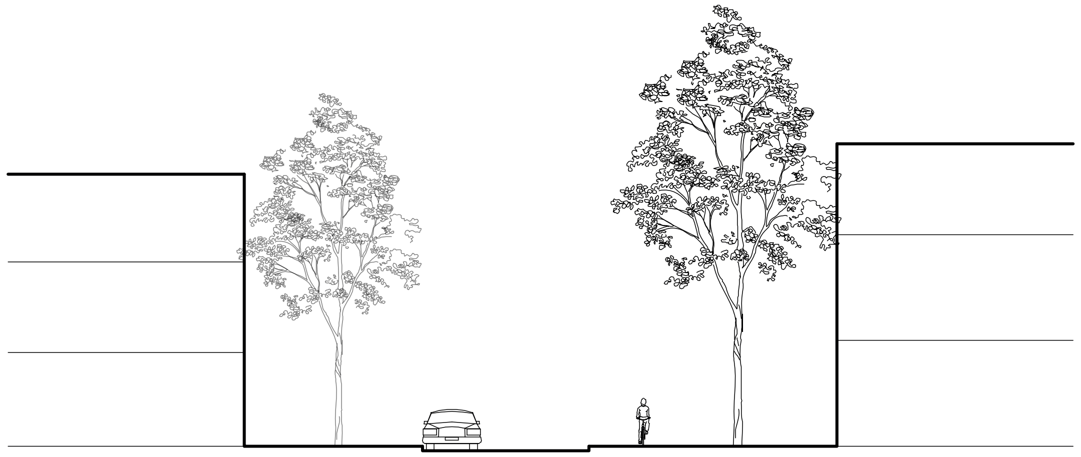
Blue Green Network
Amsterdam

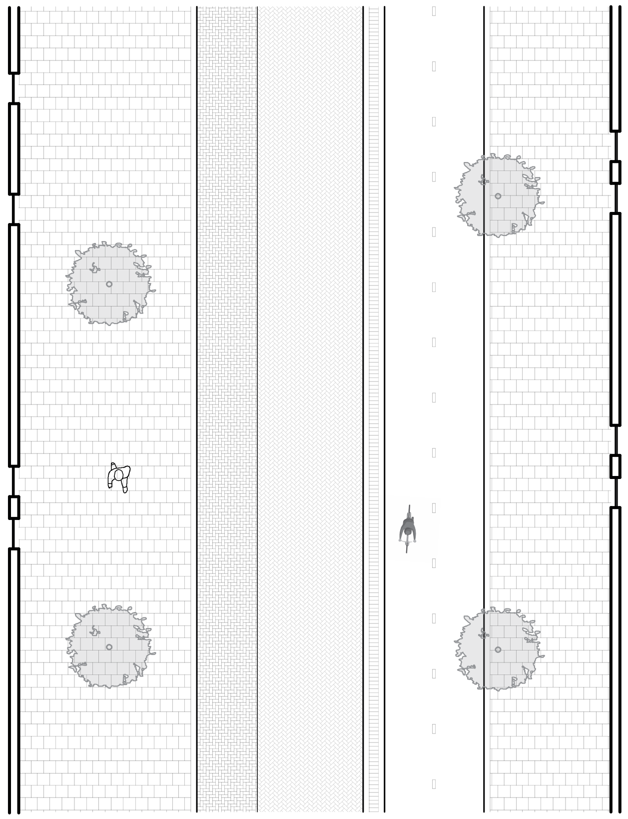
Amsterdam 1:30000

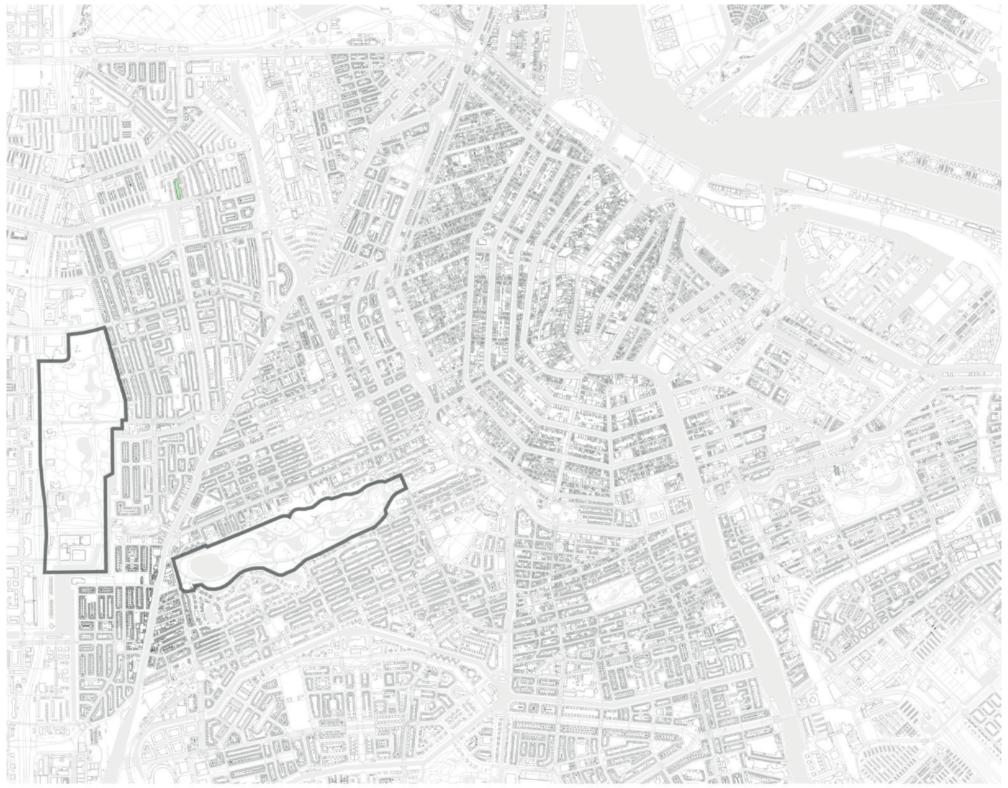


Keurtuinen Amsterdam

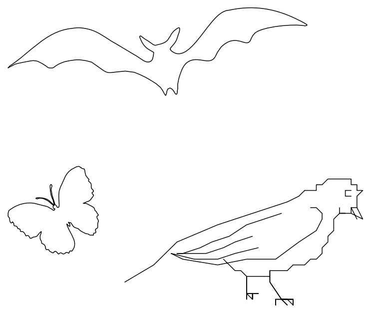
Keun Koetshuis
Hendrik Keun
Grachtentuin





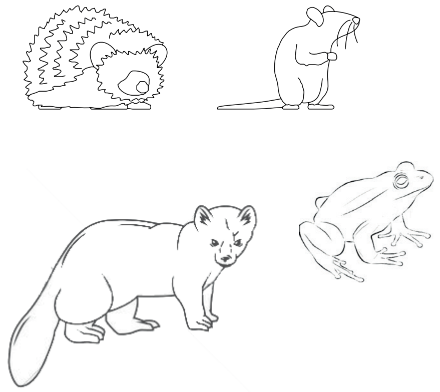


Street transfomation



Flying | Sky

Birds	Trees, grass, insects
Bats	Insects, darkness
Insects	Native plants, flowers, bushes, sand

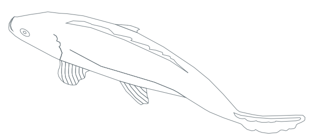


Walking | Ground

Hedgehogs
Rats
Mice
Marten
Rabbits
Weasels
squirrels

Salamanders
Frogs
Toads
Snakes

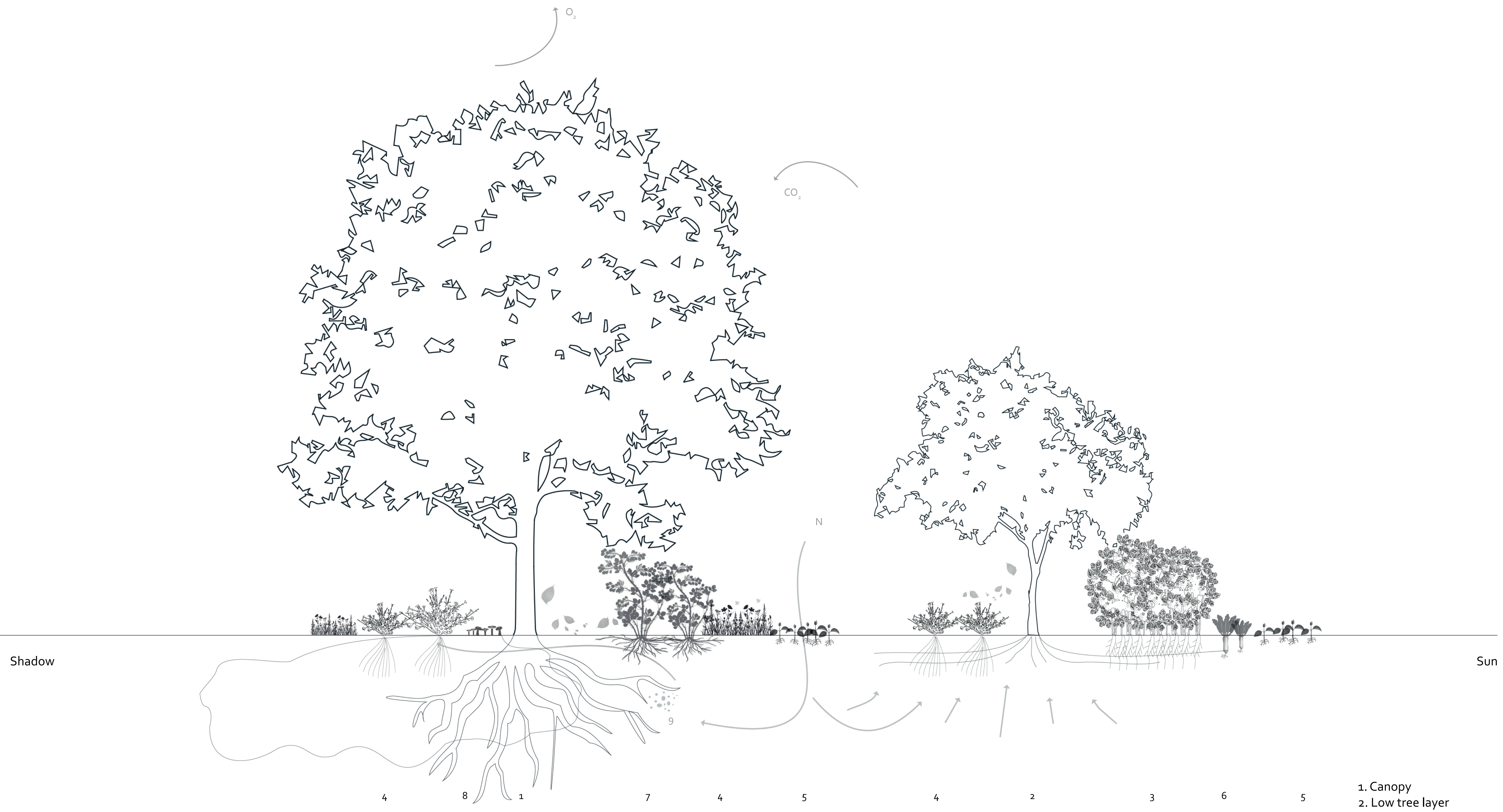
Moist hiding places, rough terrain, undergrowth,sun
Bushes, leaves, branches, burrows



Swimming | Water

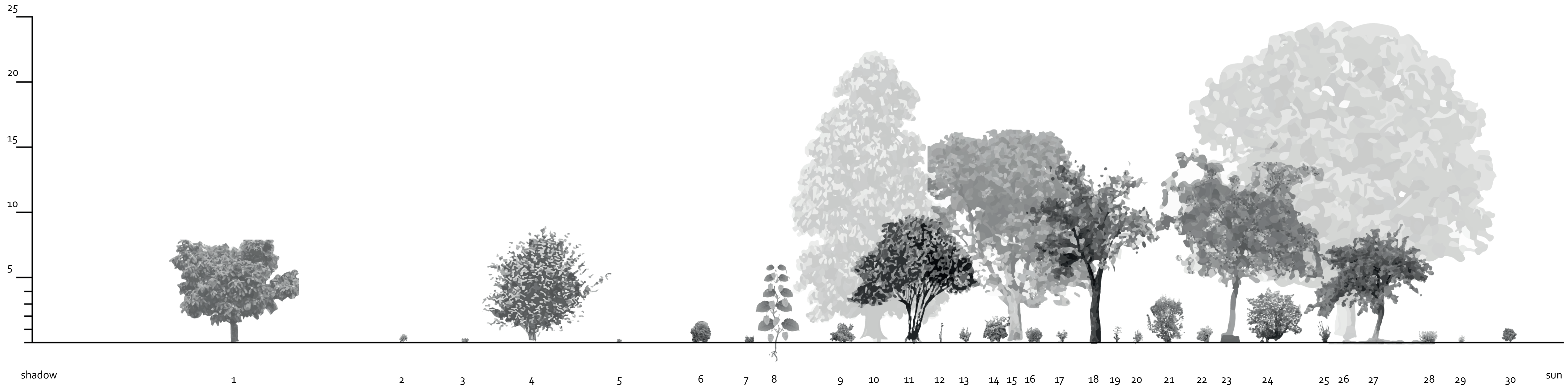
Fish
Salamanders
Frogs
Toads
Snakes

Movement animals Amsterdam



Forest garden

1. Canopy
2. Low tree layer
3. Shrub layer
4. Herbaceous layer
5. Floor layer
6. Rhizosphere
7. Vertical layer
8. Fungi
9. Bacteria

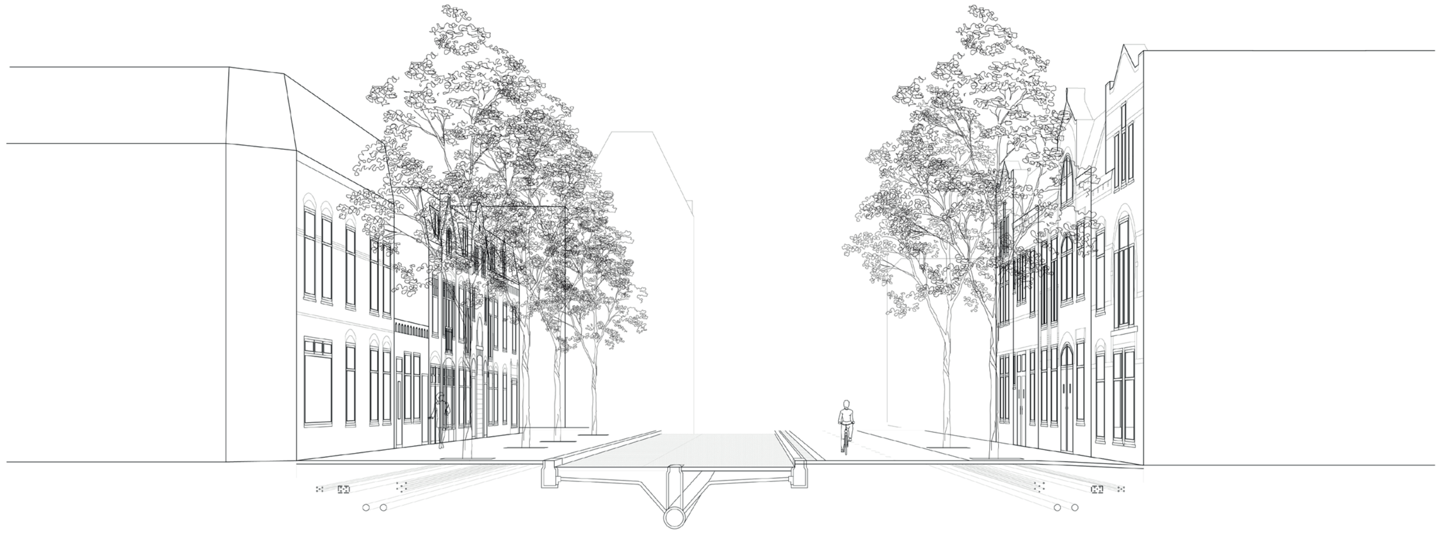


1. Medlar	*Mespilus germanica*
2. Bear's Garlic	*Allium ursinum*
3. Sweet Violet	*Viola odorata*
4. Hazel	*Corylus avellana*
5. Winter Aconite	*Eranthis hyemalis*
6. Red raspberry	*Rubus idaeus*
7. Sweetscented bedstraw	*Galium odoratum*
8. Hop	*Humulus lupulus*
9. Gooseberry	*Ribes uva-crispa*
10. Sweet Chestnut	*Castanea sativa*
11. Common elder	*Sambucus nigra*
12. Wild garlic	*Allium vineale*
13. Tuberous pea	*Lathyrus tuberosus*
14. Blackberry	*Rubus sectie Rubus*
15. Wild service tree	*Sorbus torminalis*

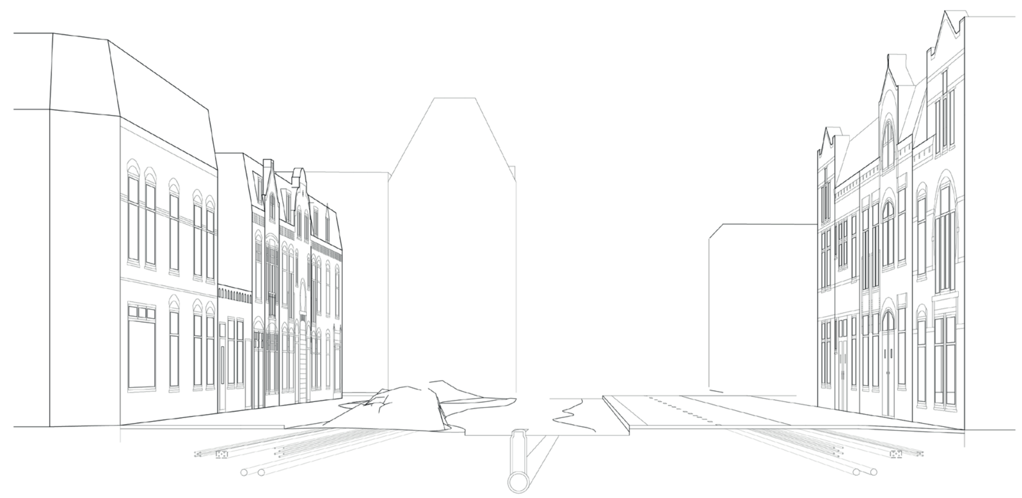
16. Musk-mallow	*Malva moschata*
17. Celery	*Apium graveolens*
18. Wild Pear	*Pyrus communis*
19. Wild Parsnip	*Pastinaca sativa*
20. Common Sorrel	*Rumex acetosa*
21. Blackthorn	*Prunus spinosa*
22. Common comfrey	*Symphytum officinale*
23. Wild Cherry	*Prunus avium*
24. Bluecrop	*Vaccinium corymbosum*
25. Chicory	*Cichorium intybus*
26. Common Walnut	*Juglans regia*
27. Crab Apple	*Malus domestica*
28. Watermint	*Mentha aquatica*
29. German chamomile	*Matricaria chamomilla*
30. Cranberry	*Vaccinium macrocarpon*

Orientation and heights trees and plants Amsterdam

CURRENT SITUATION



PHASE 1: INFRASTRUCTURE



PHASE 2: PREPARE SOIL

PHASE 3: PLANTING

Process of transformation

PHASE 4: GROWING

Transformation

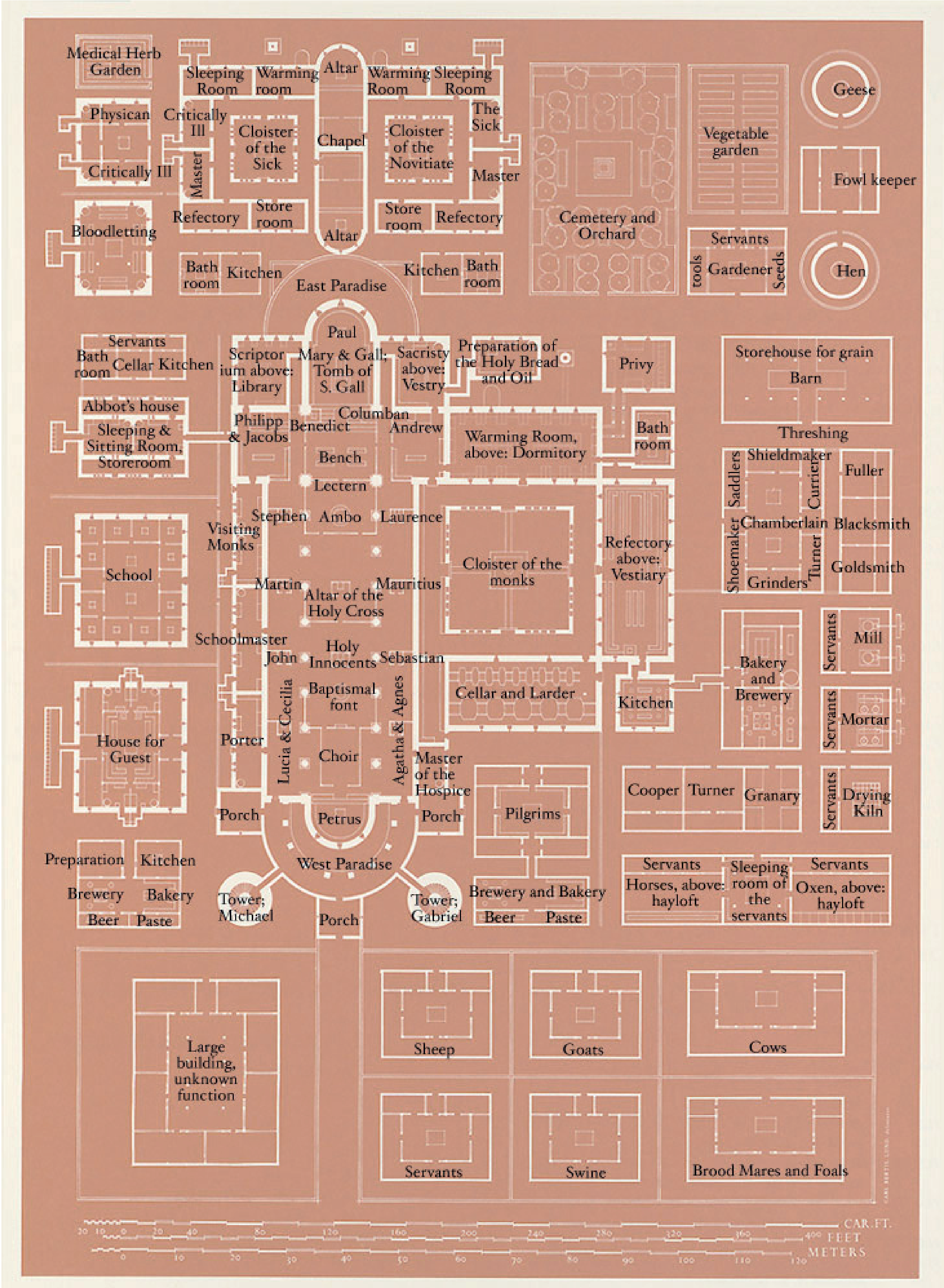
Winter

Spring

Summer

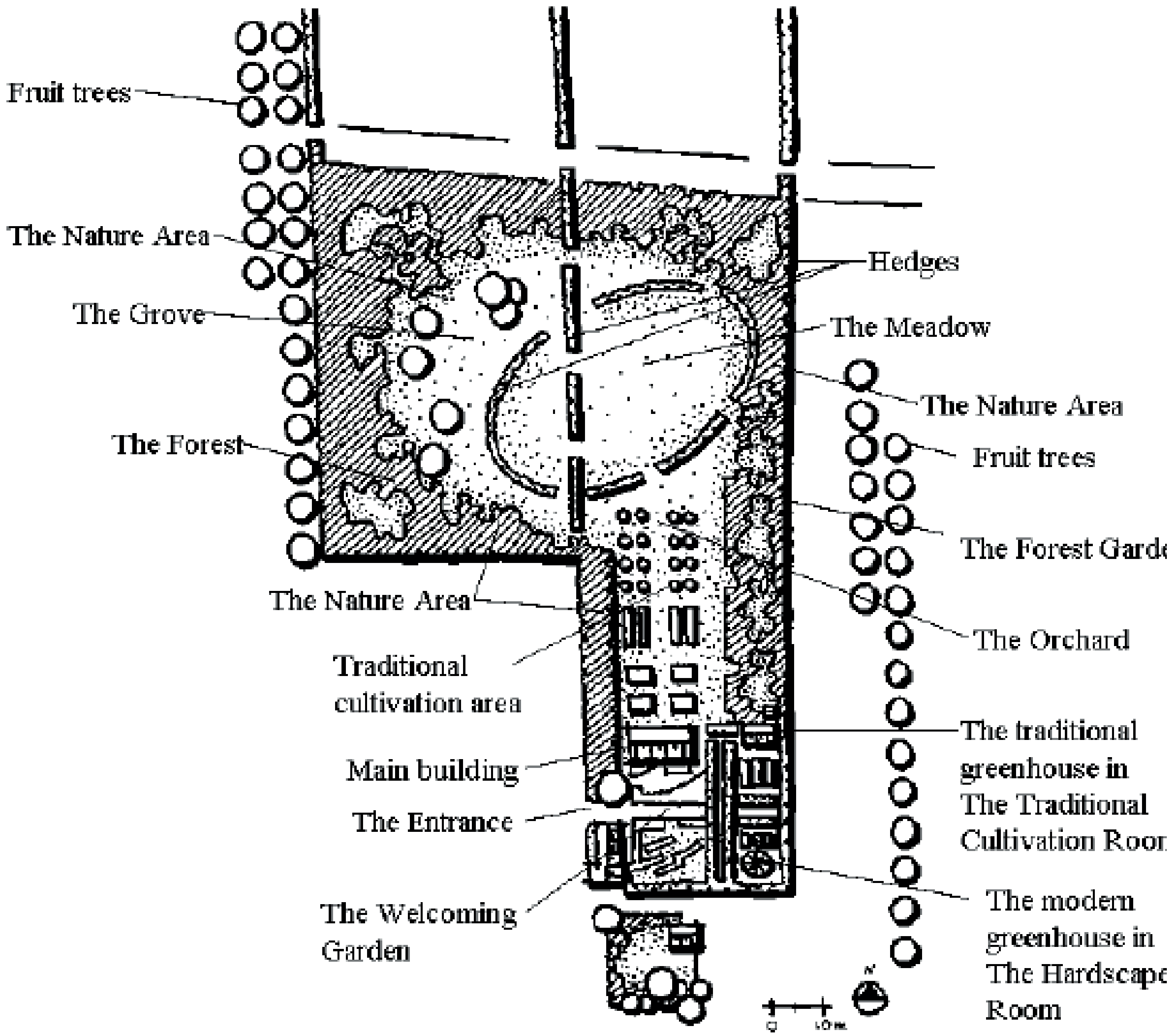
Autumn

Seasons



Monastery garden
St. Gall Monastery Plan

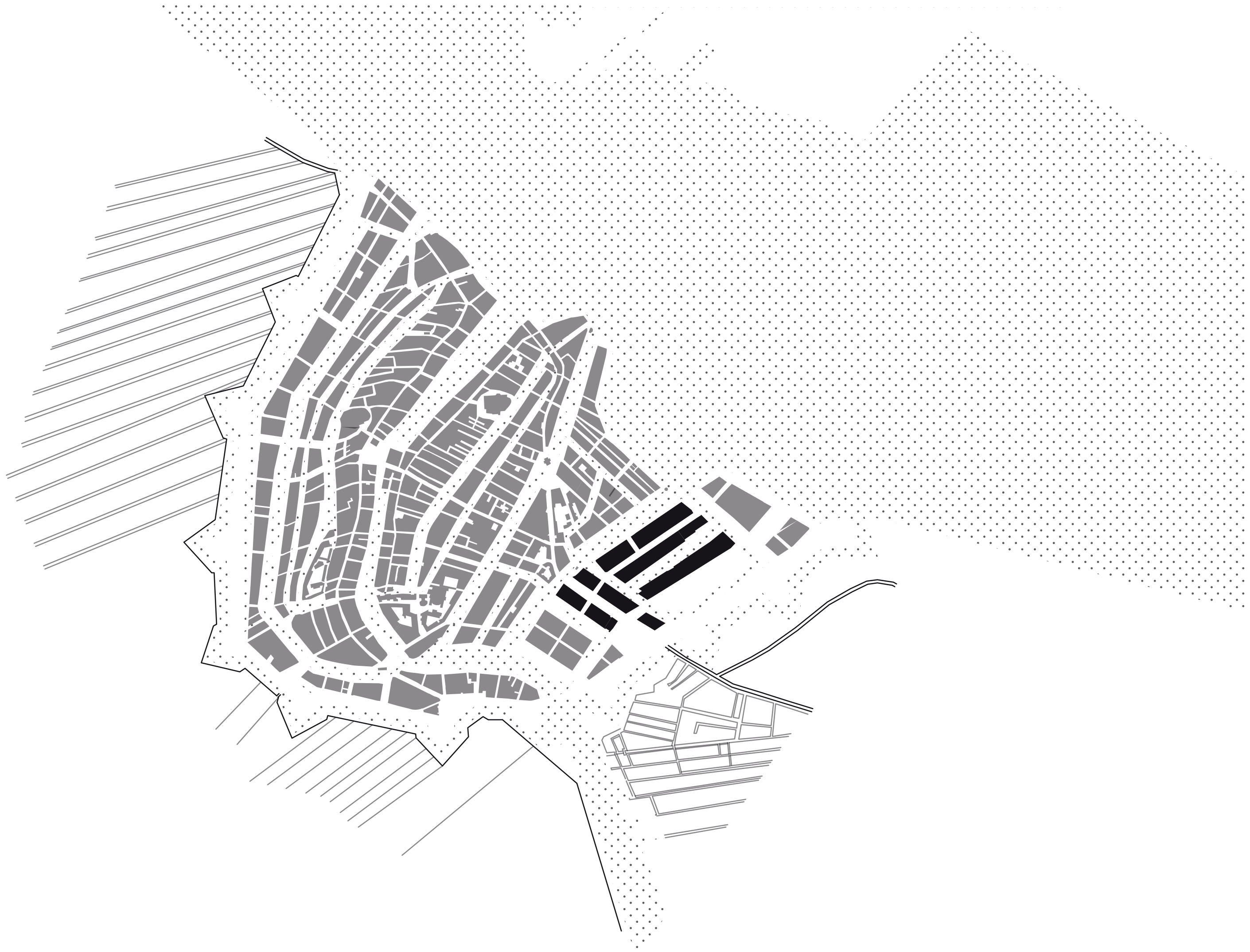
By Walter Horn and Ernest Born

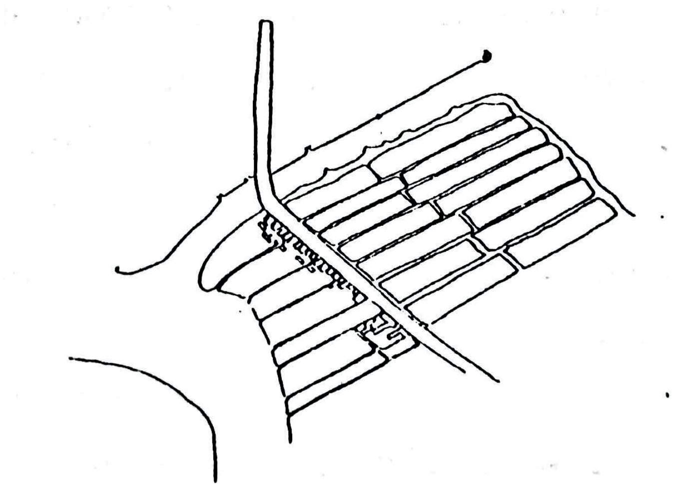


Plan of the Healing Garden at Alnarp Sweden

Patrik Grahn, Sara Lundström,
Ulrika A. Stigsdotter, and Frederik Tauchnitz

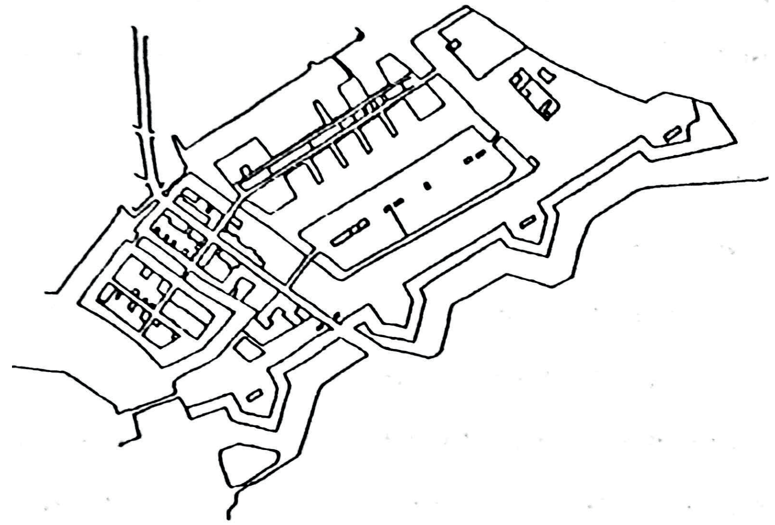
Nieuwe Uilerburgerstraat 59
Amsterdam





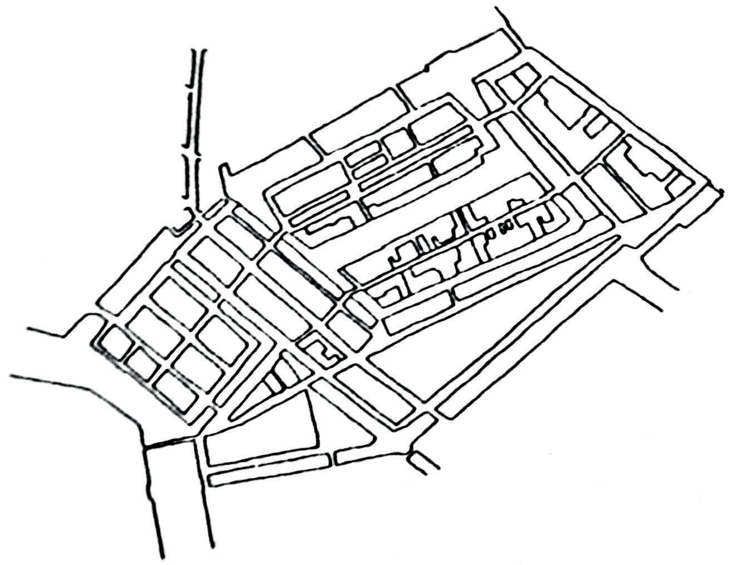
Uilenburg 1544

Amsterdam 1600

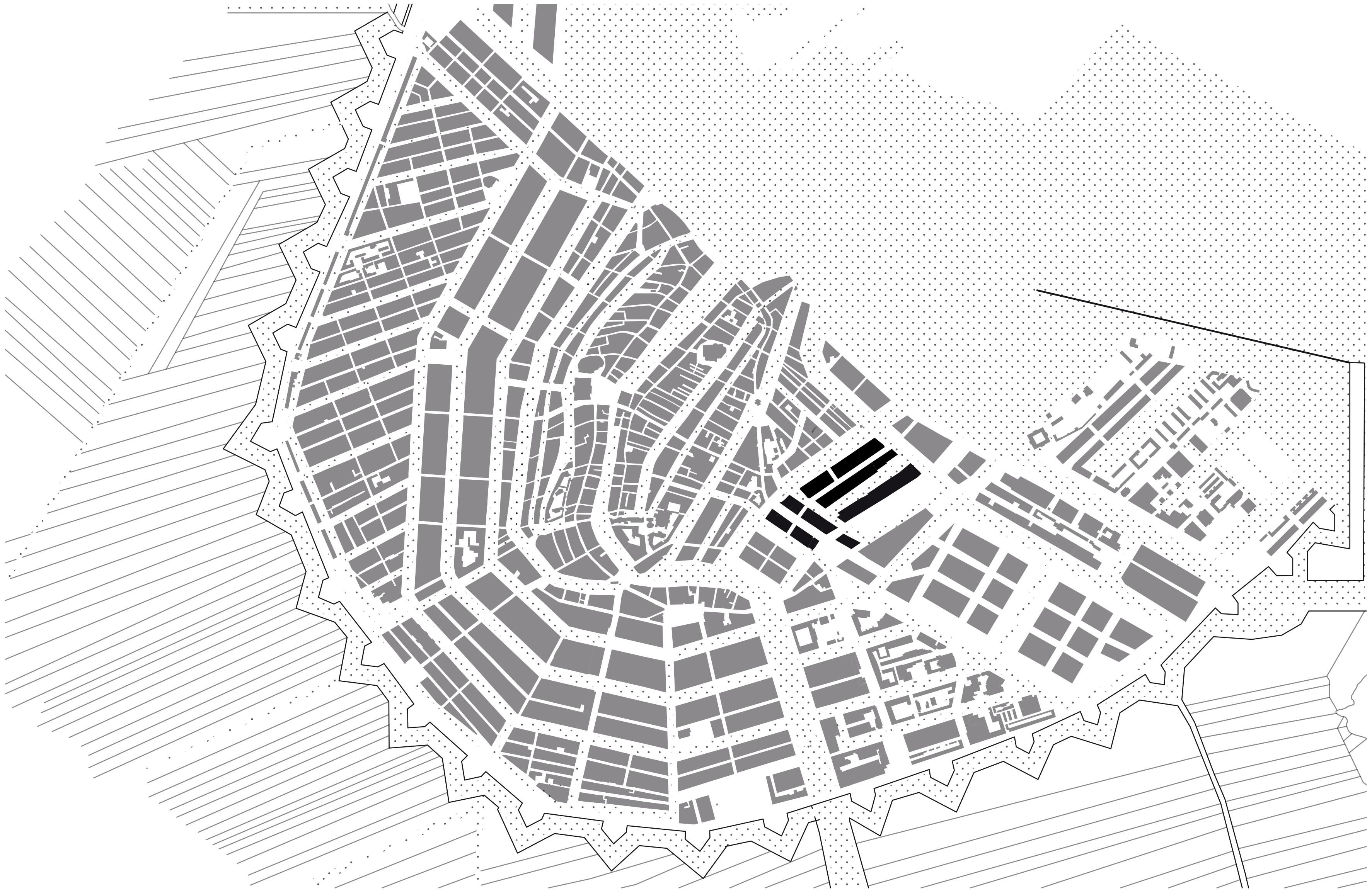


Uilenburg 1612

Amsterdam 1650



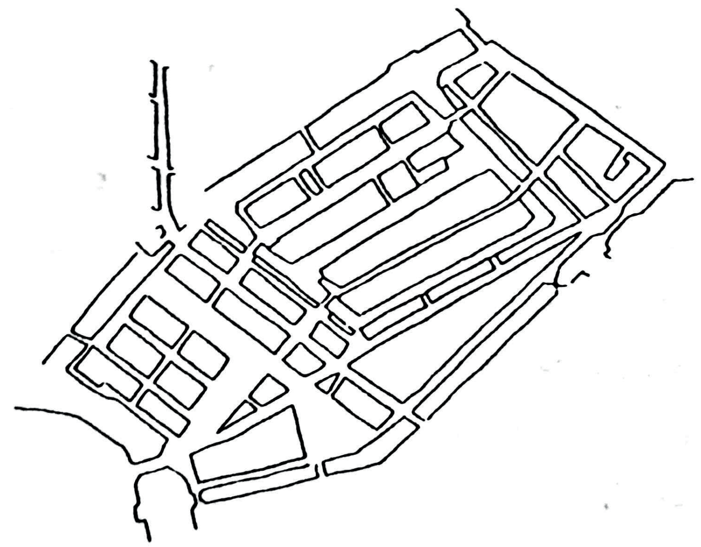
Uilenburg 1665



Amsterdam 1700

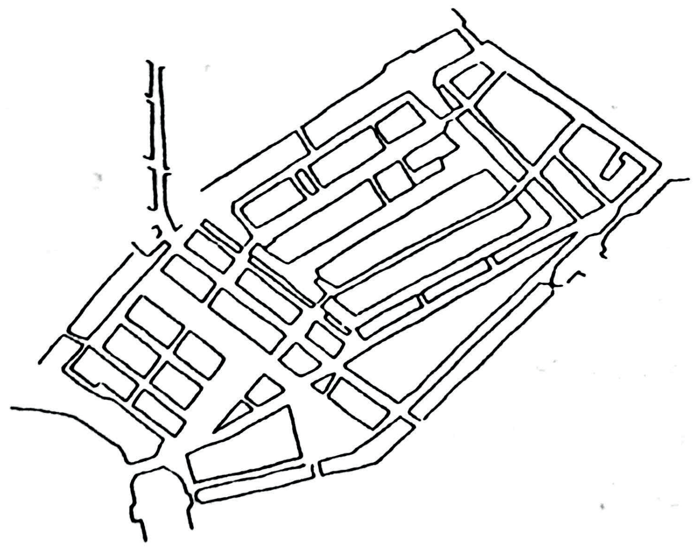
Jordaan 19th century

Goudsbloemgracht 1850 W. Hekking jr.



Uilenburg 1916

Demolition plan Uilenburg
1915

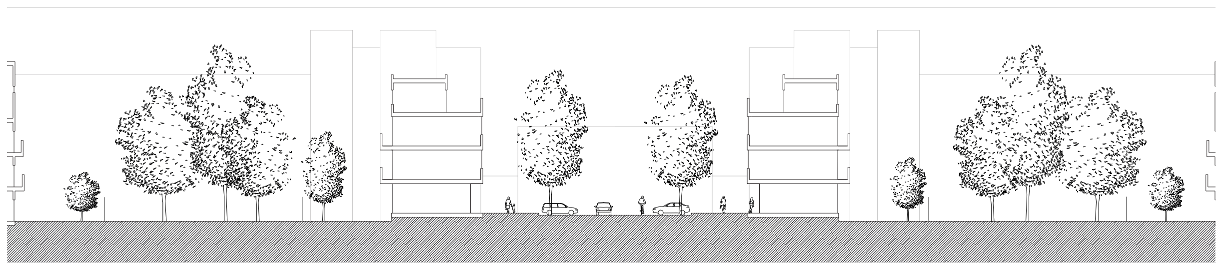


Uilenburg 1916

Demolition plan Uilenburg
1915

Plan Zuid Berlage

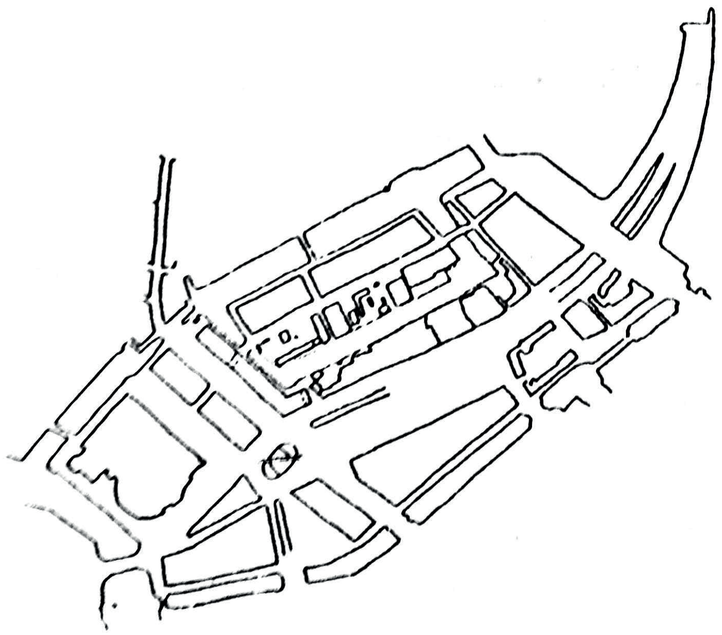
(H.P. Berlage, 1920, Amsterdam)



Section of Pieter Lodewijk Takstraat
Berlage plan Zuid
1:1000

Uilenburgerstraat 1910

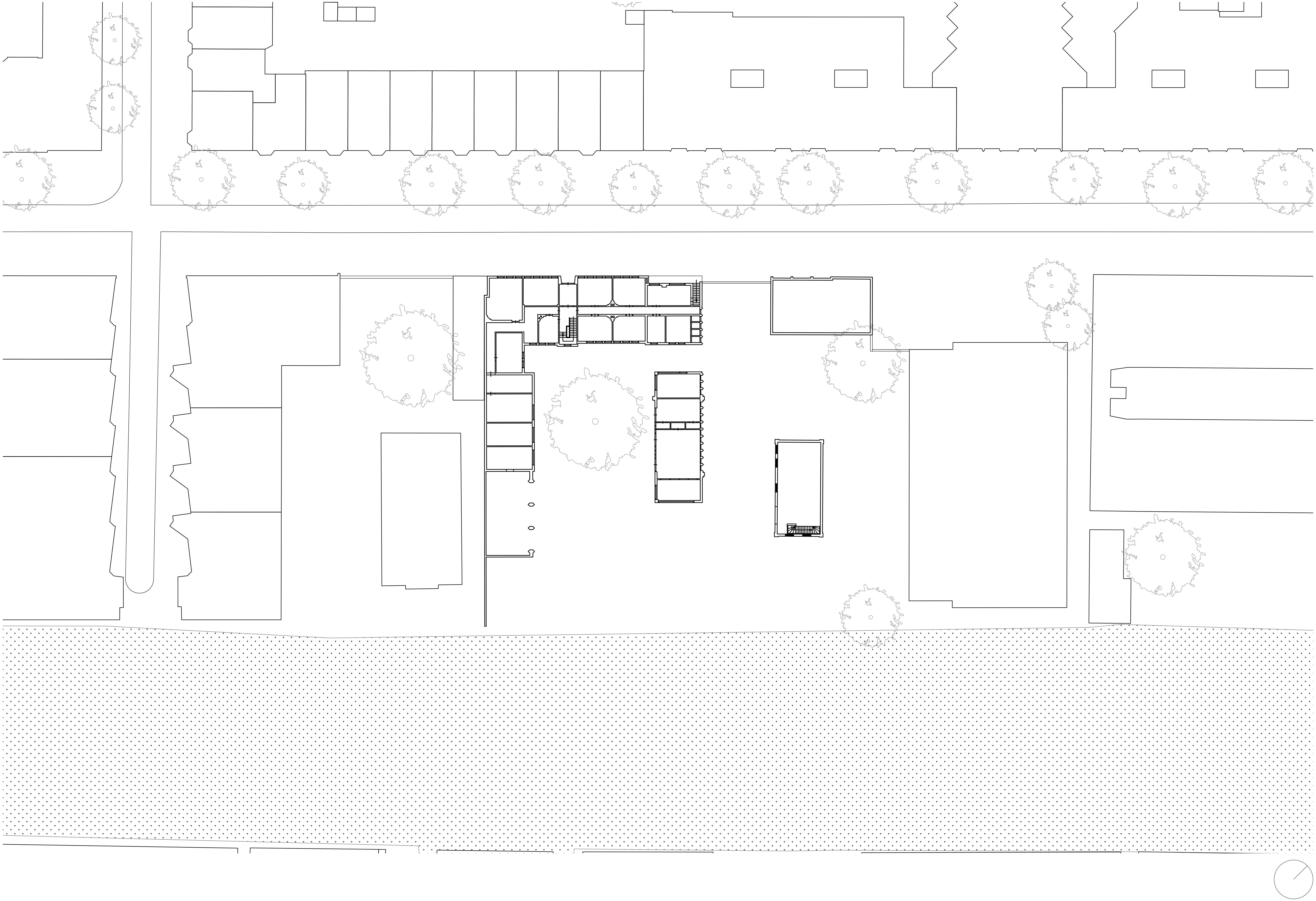
Nieuwe Uilenburgerstraat 2020



Uilenburg 1993

Uilenburg 2020

The site



Current situation

1:500

1926

2005

Municipality building
Bridges and sewerage

Amsterdam archive

2021

2005

Amsterdam archive

Municipality building

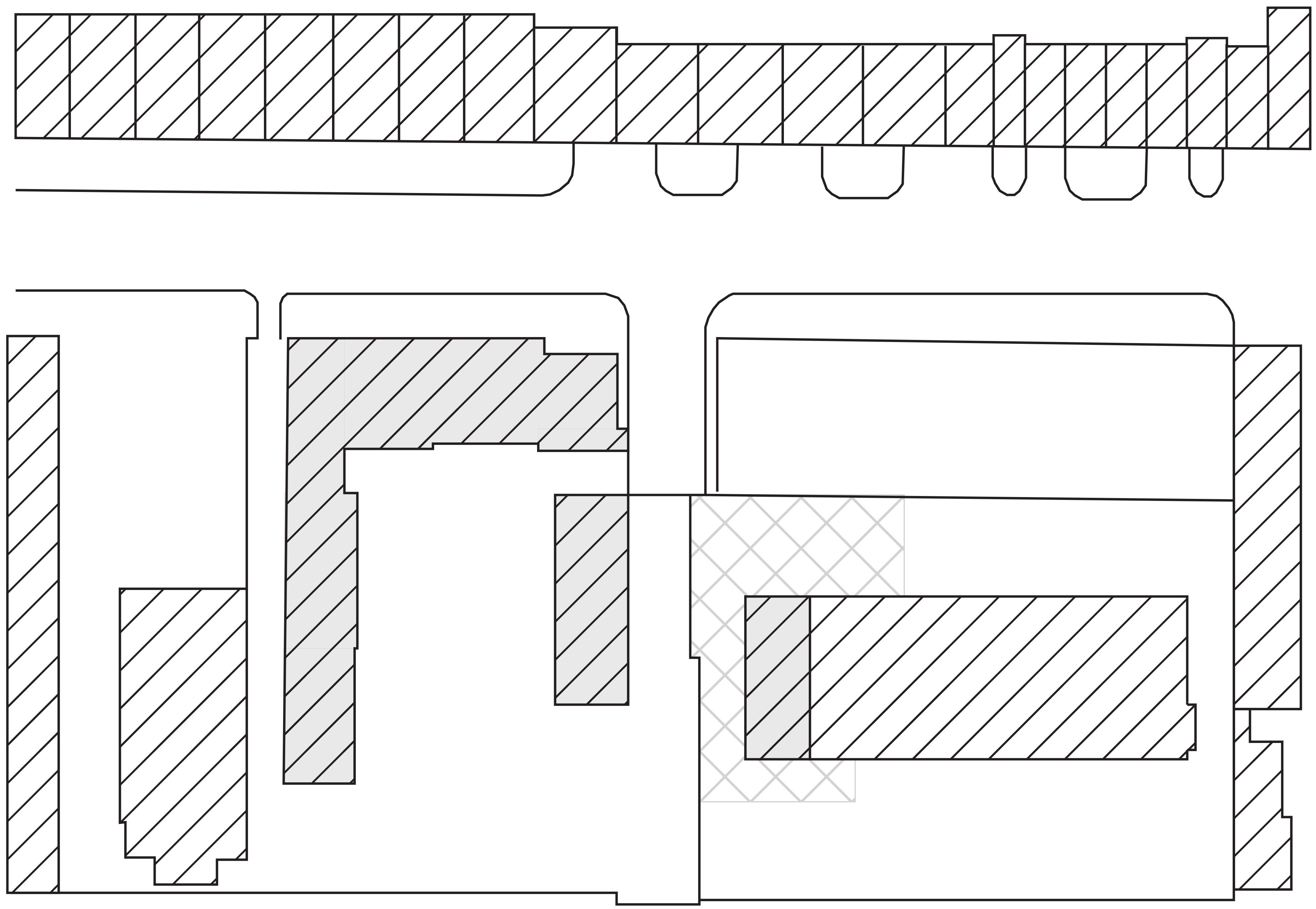
1955

2021

Teacher's house Jewish school

Amsterdam archive

Exhibition historical photos
Jewish Market 1935



Old site plan

Foyer (housing model)]

1. A safe, balanced community of 16-25 years old in transition from dependence to independence

2. An integrated offer that covers housing, education, employment and personal development skills

3. A relationship that tailors a 'something-for-something' deal between the young person, service and locality, on which the offer of accommodation depends.

Foyer model

Health
Nutrition, physical and mental health

Enterprise and employement
Developing employability skills, finding work and raising career asiprations

Learning and skill development
Formal education and sharing skills with eachother

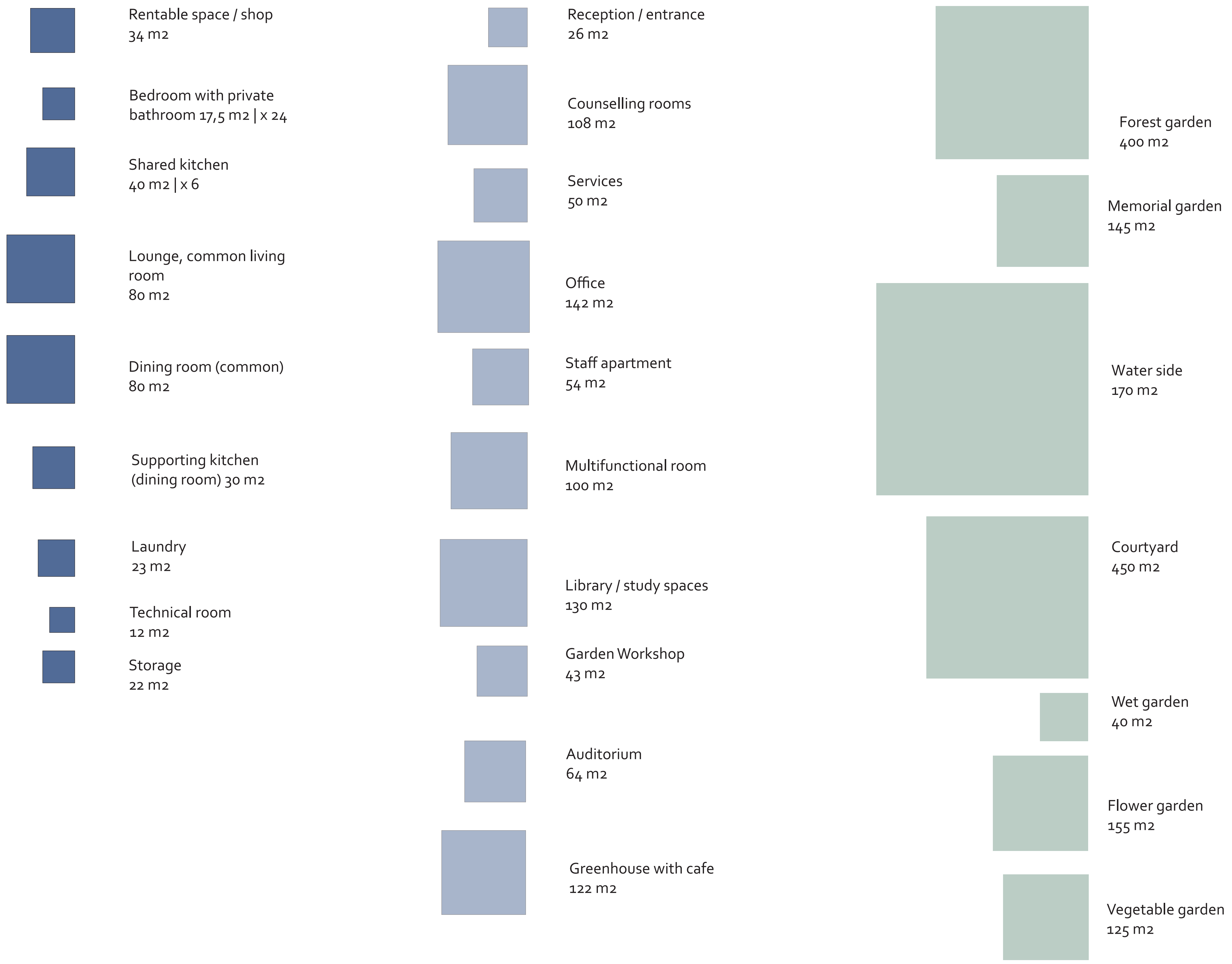
Personal development
Working with a coach to develop resilience, overcome obstacles and make personal progress

Social skills
Managing relationships, working through conflict and living with others in a community

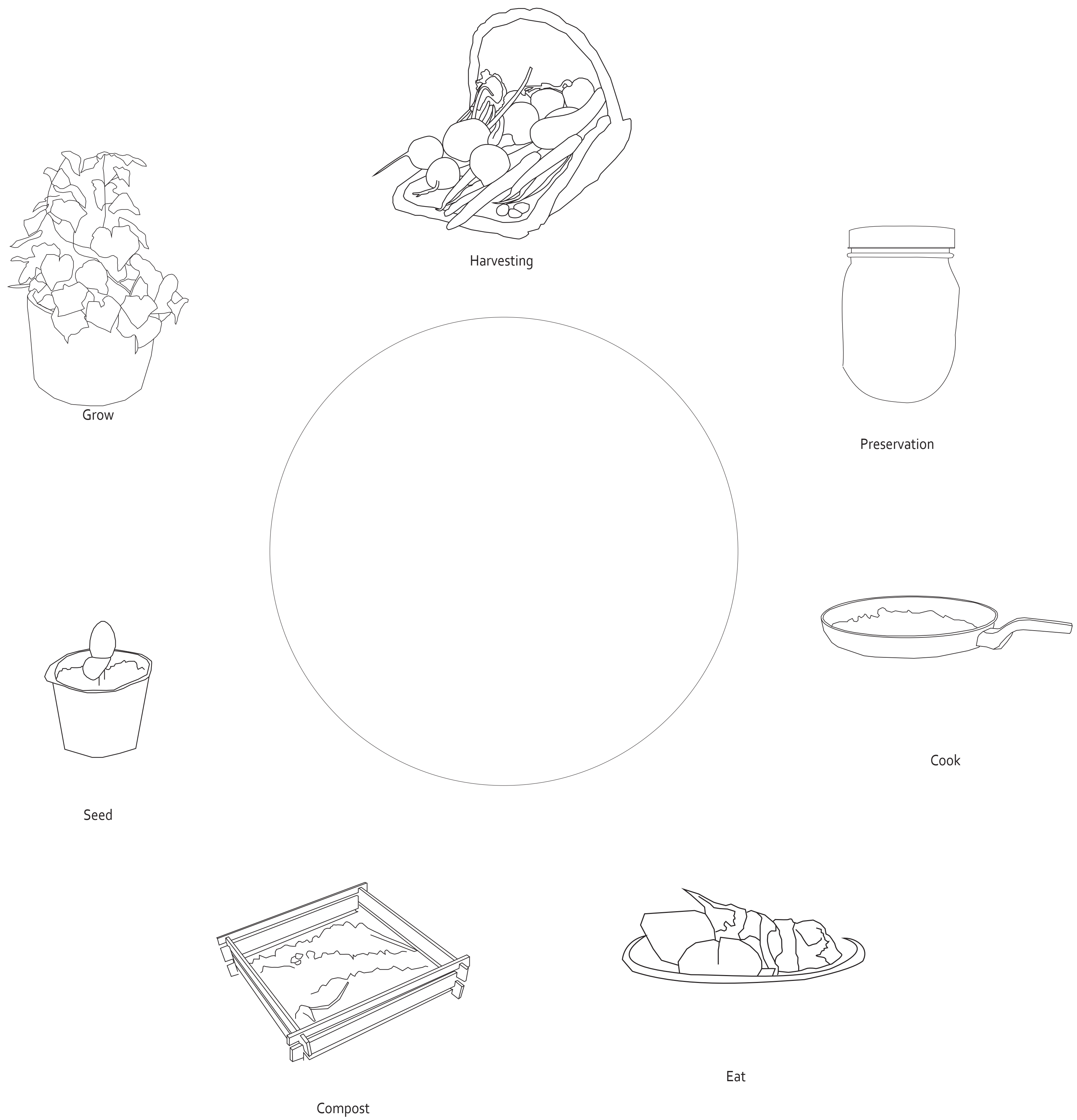
Financial management
Learning responsibilities for paying rent, making budgets and gaining financial independence

Housing and moving on
Finding and securing the right next step for each person and preparing them for transition.

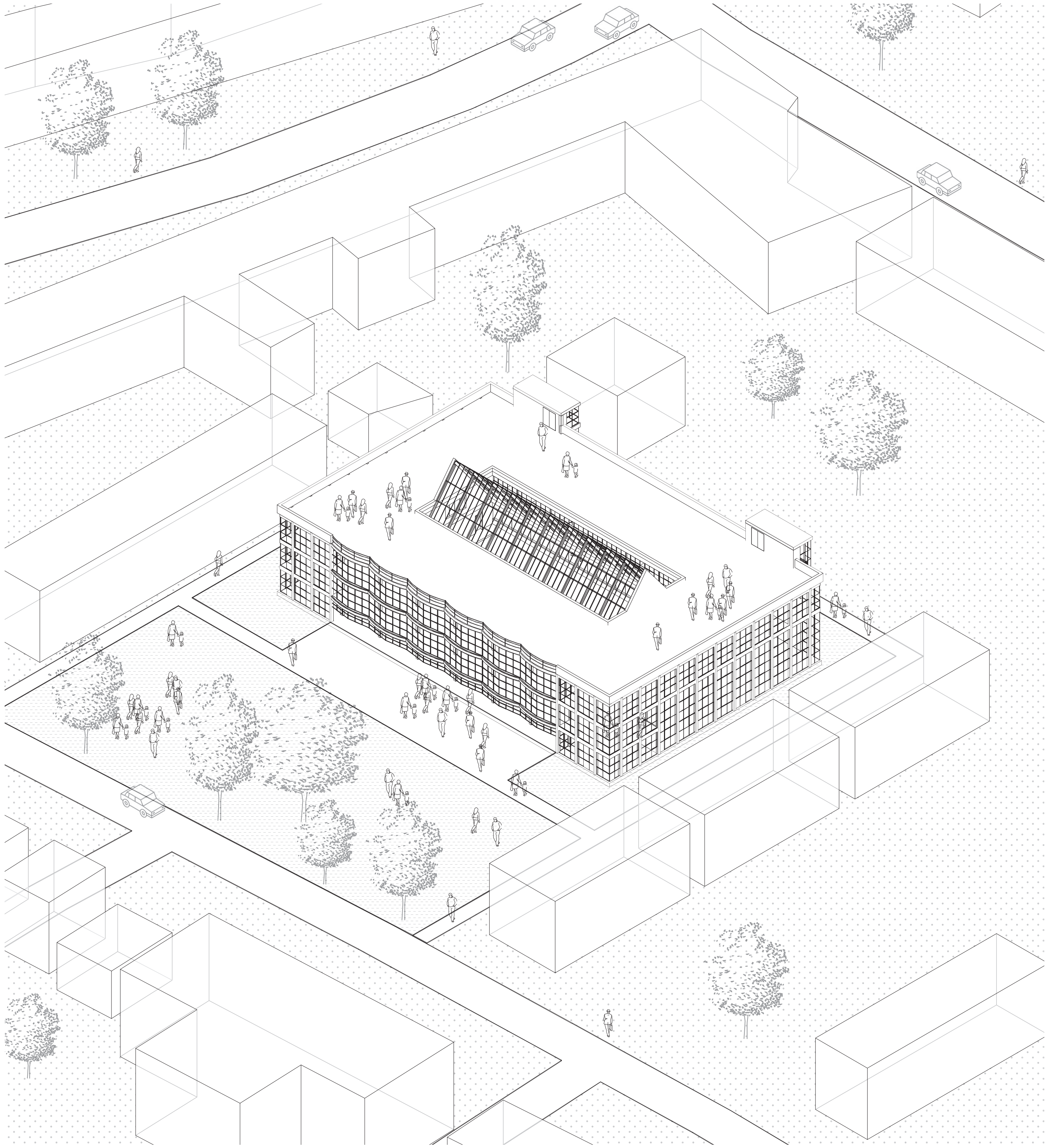
Skills foyer model



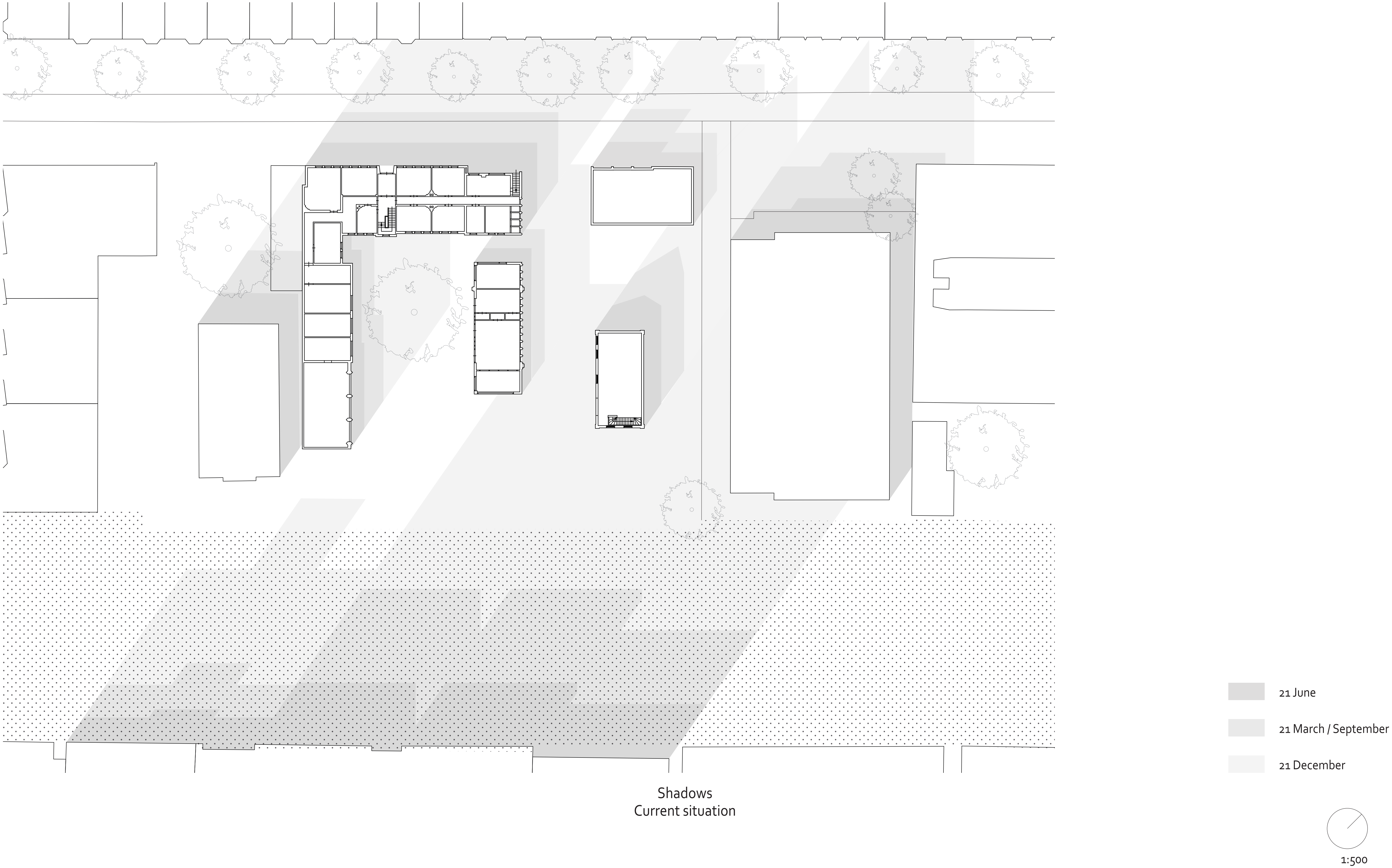
Brief hotel
Young people (16-25)



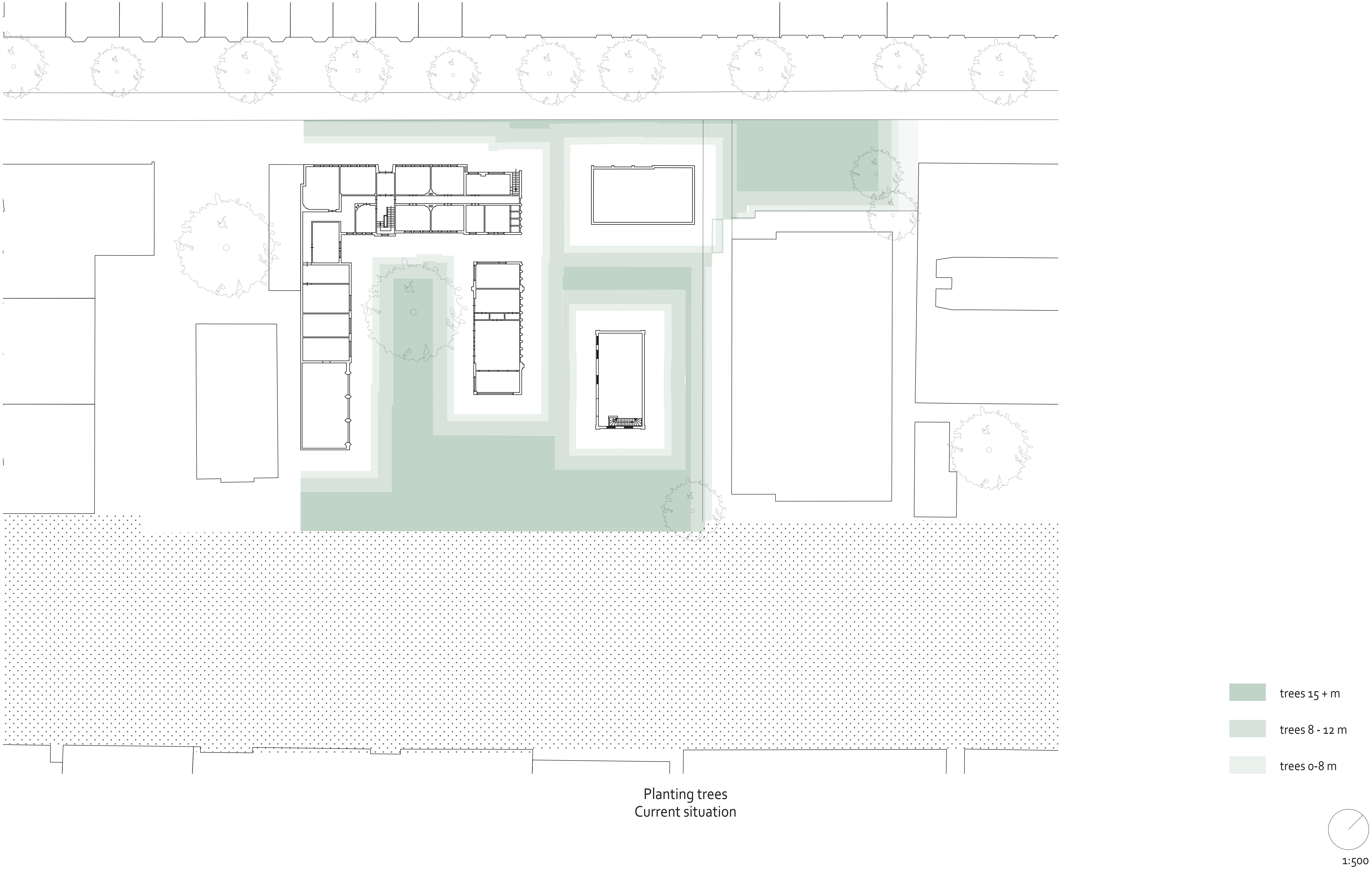
Food cycle



The Pioneer Health Centre
Peckham, London

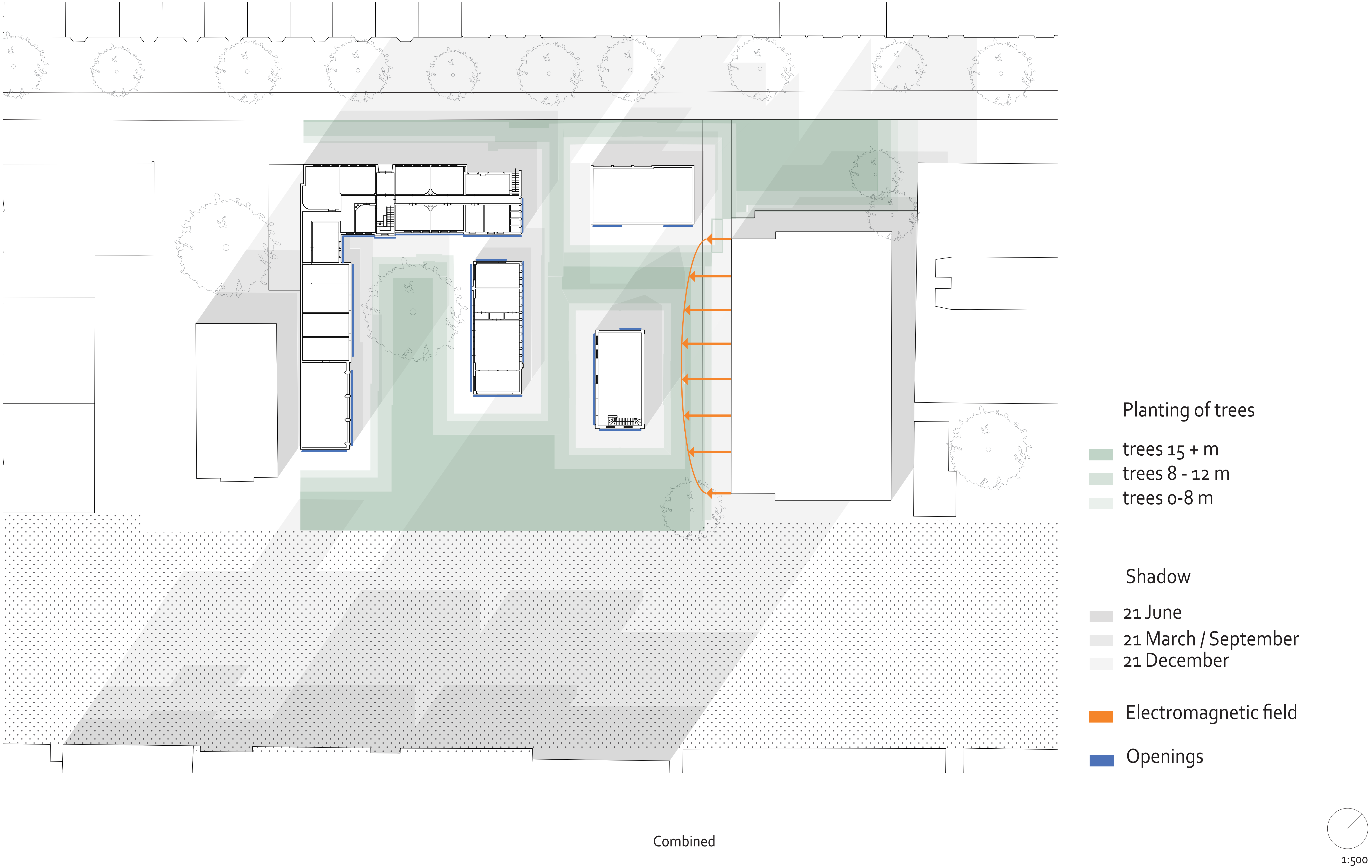


Shadows
Current situation

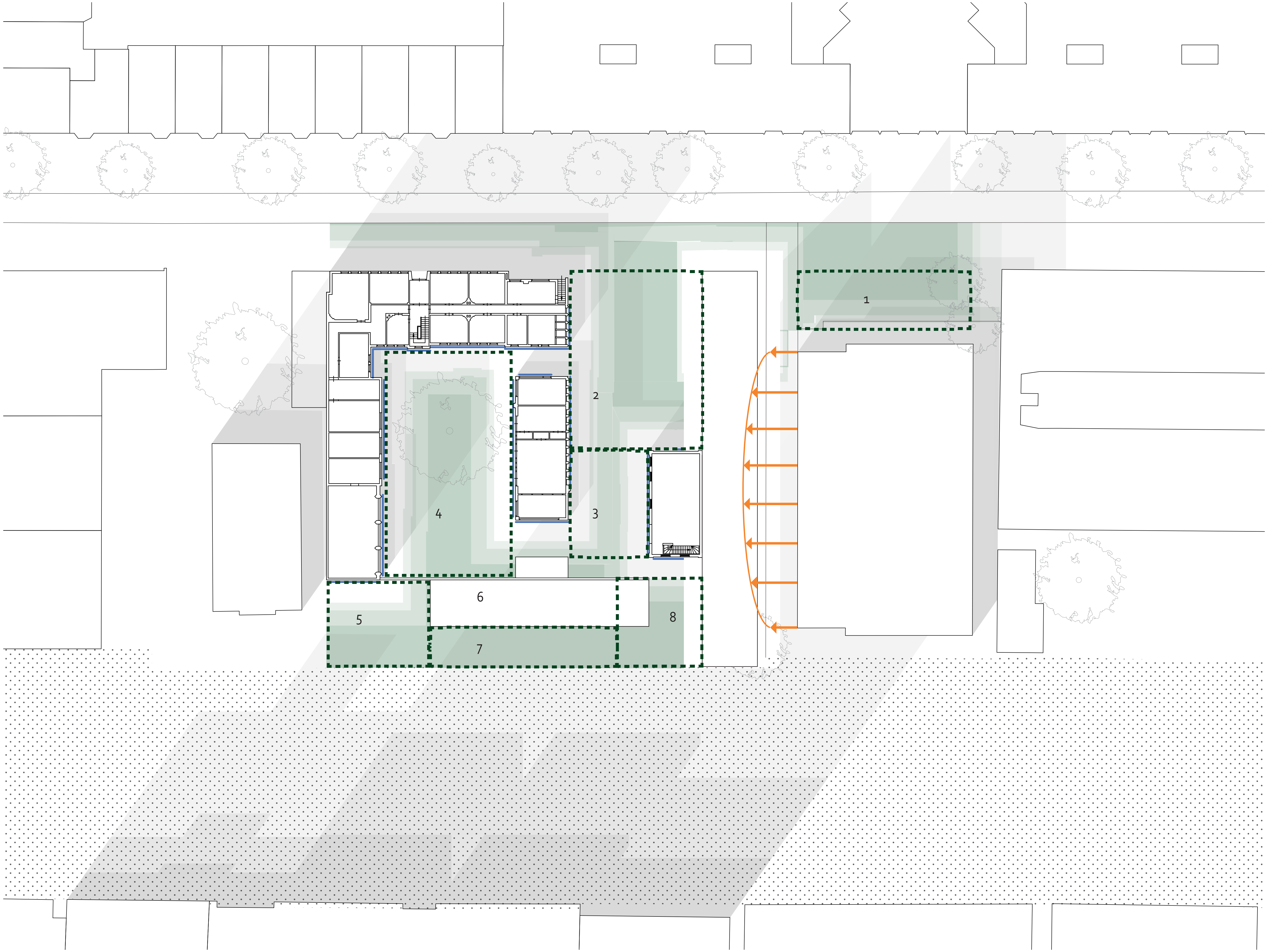


Planting trees
Current situation

Magnetic field


Planting of trees
trees 15 + m
trees 8 - 12 m
trees 0-8 m
Shadow
21 June
21 March / September
21 December
Electromagnetic field
Openings
1:500

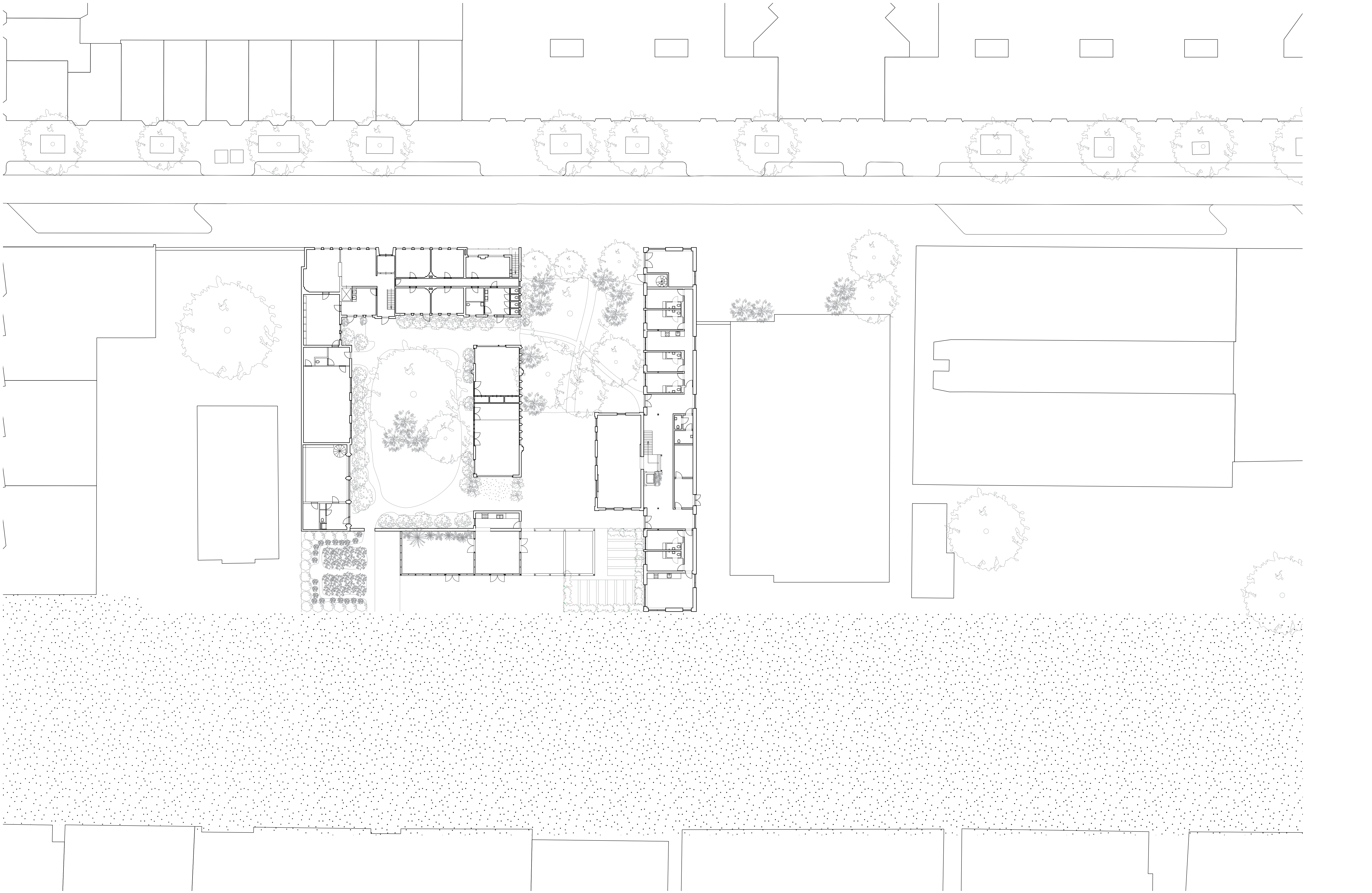
Combined



Gardens

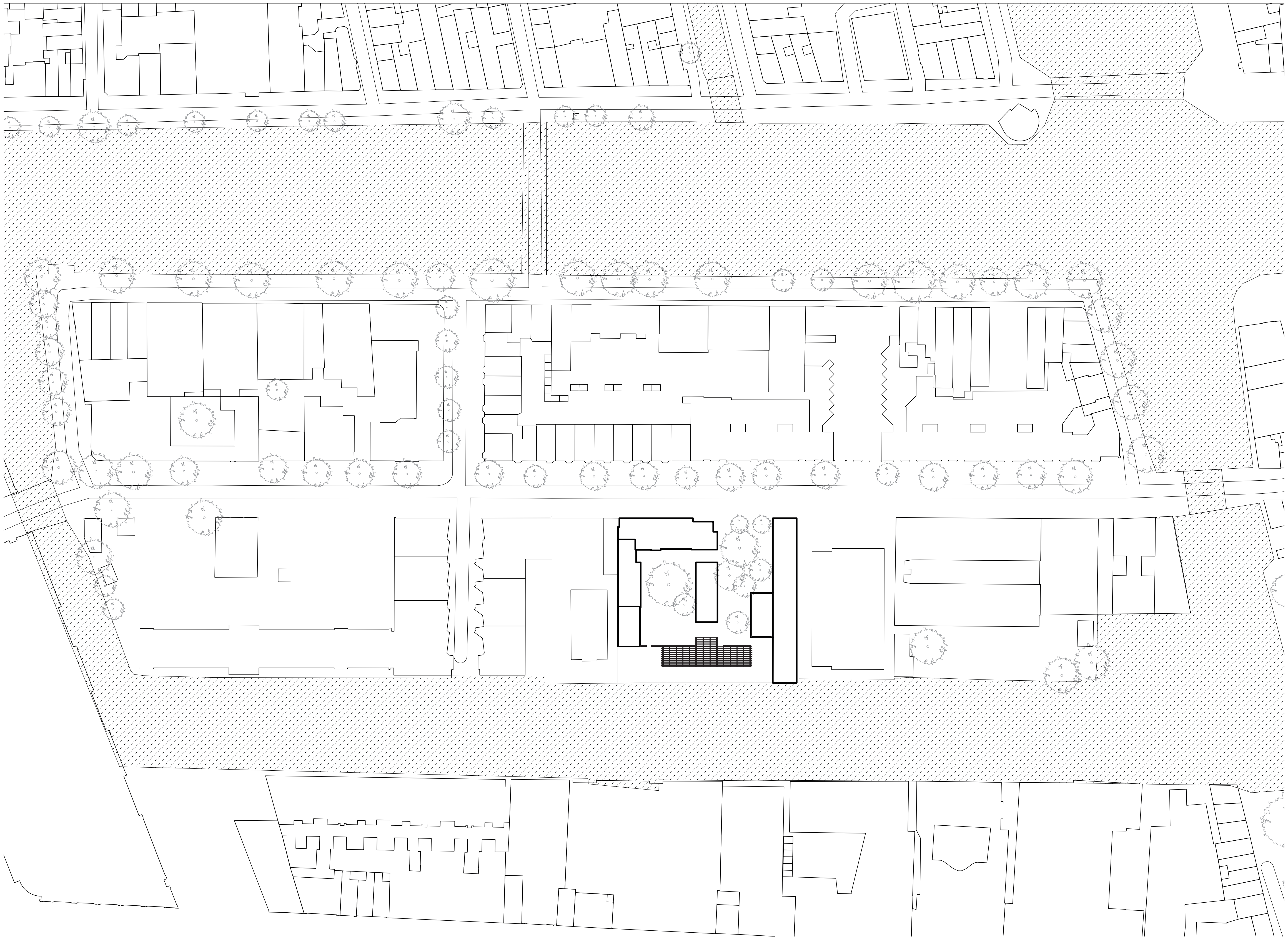
1. Playground
2. Forest garden
3. Memorial garden
4. Courtyard
5. Flower garden
6. Subtropical
7. Waterfront
8. Vegetable garden

Gardens



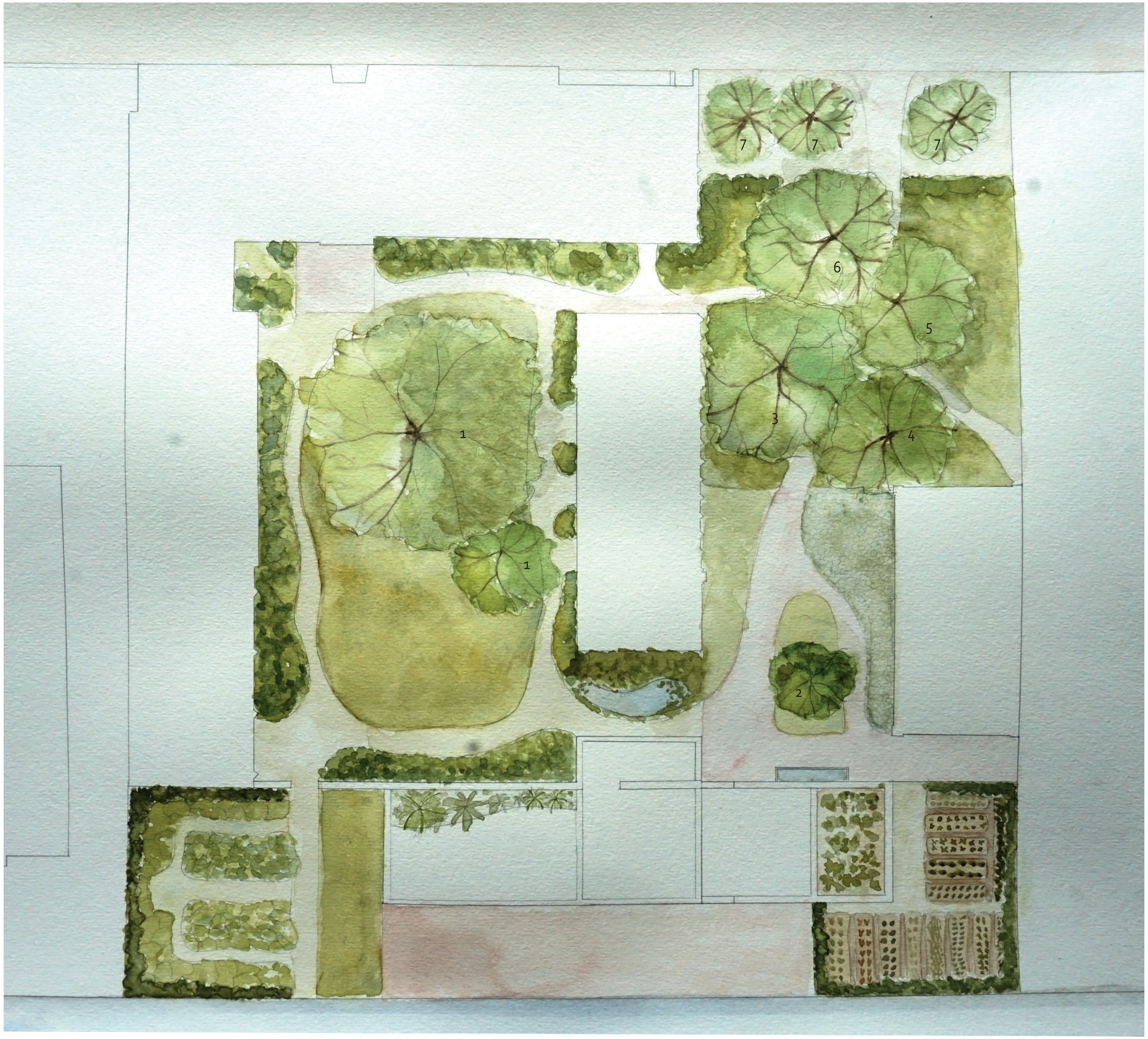
Site plan

1:500



Plan Uilenburg

1:1000



1. Chesnut
2. Small-leaved elm
3. Sweet Cherry tree
4. Wild Apple Tree
5. Medlar
6. Wild Service Tree
7. Small-leaved elm

Garden plan

1. Entrance
2. Reception
3. Counceling rooms
4. Toilets
5. Services
6. Technical room
7. Lift

8. Garden workshop
9. Auditorium
10. Multifunctional room
11. Library

12. Greenhouse
13. Kitchen / bar
14. cafe

15. Lounge (common living room)
16. Foyer
17. Storage
18. Technical room
19. Toilets
20. Room with private bathroom
21. Shared kitchen
22. Rentable space (shop)

0

1:200

Ground floor

1. Entrance
2. Reception
3. Counceling rooms
4. Toilets
5. Services
6. Technical room
7. Lift

8. Garden workshop
9. Auditorium
10. Multifunctional room
11. Library

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0

Ground floor

1:200

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Ground floor

1:200

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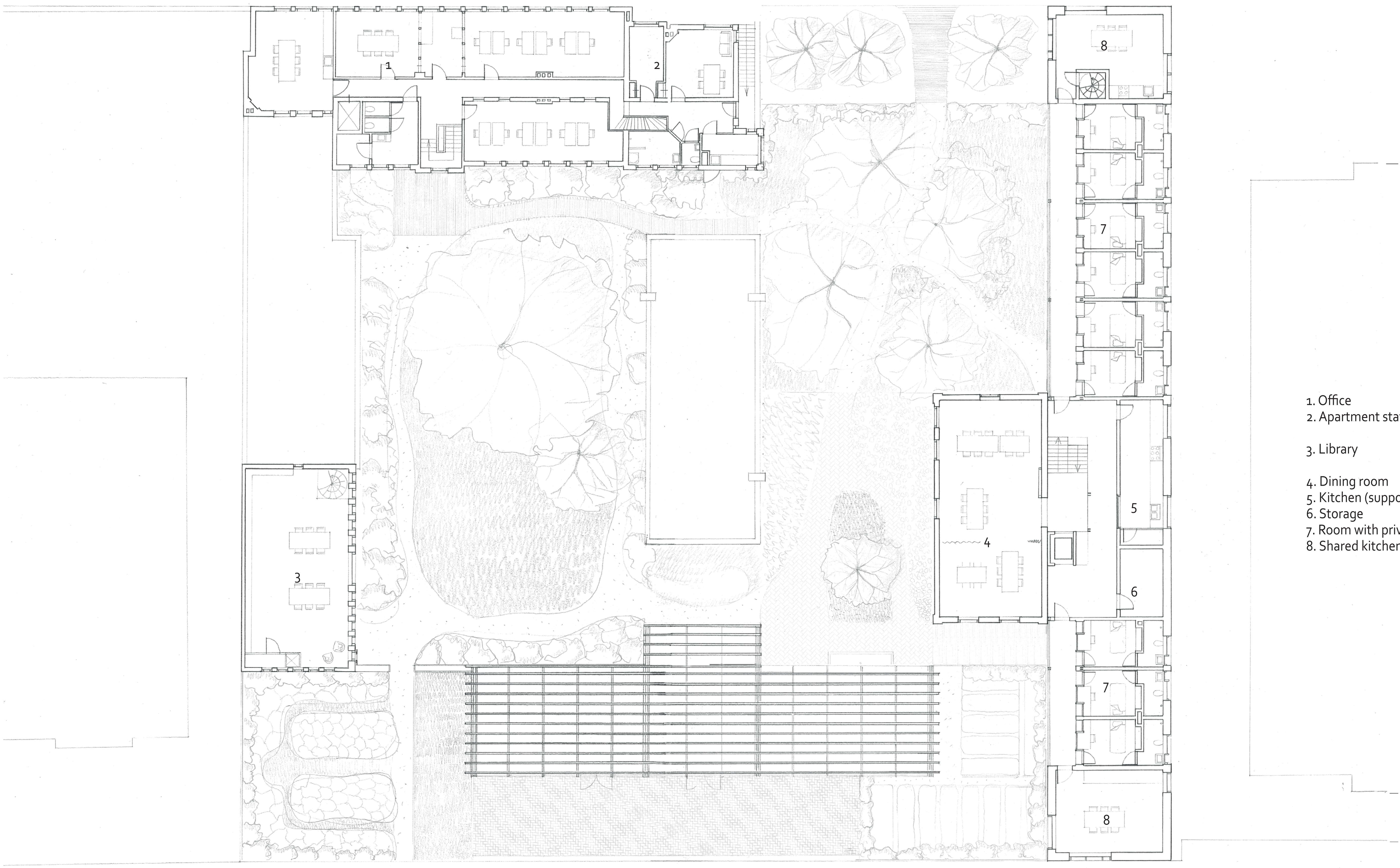
0

Ground floor

1:200



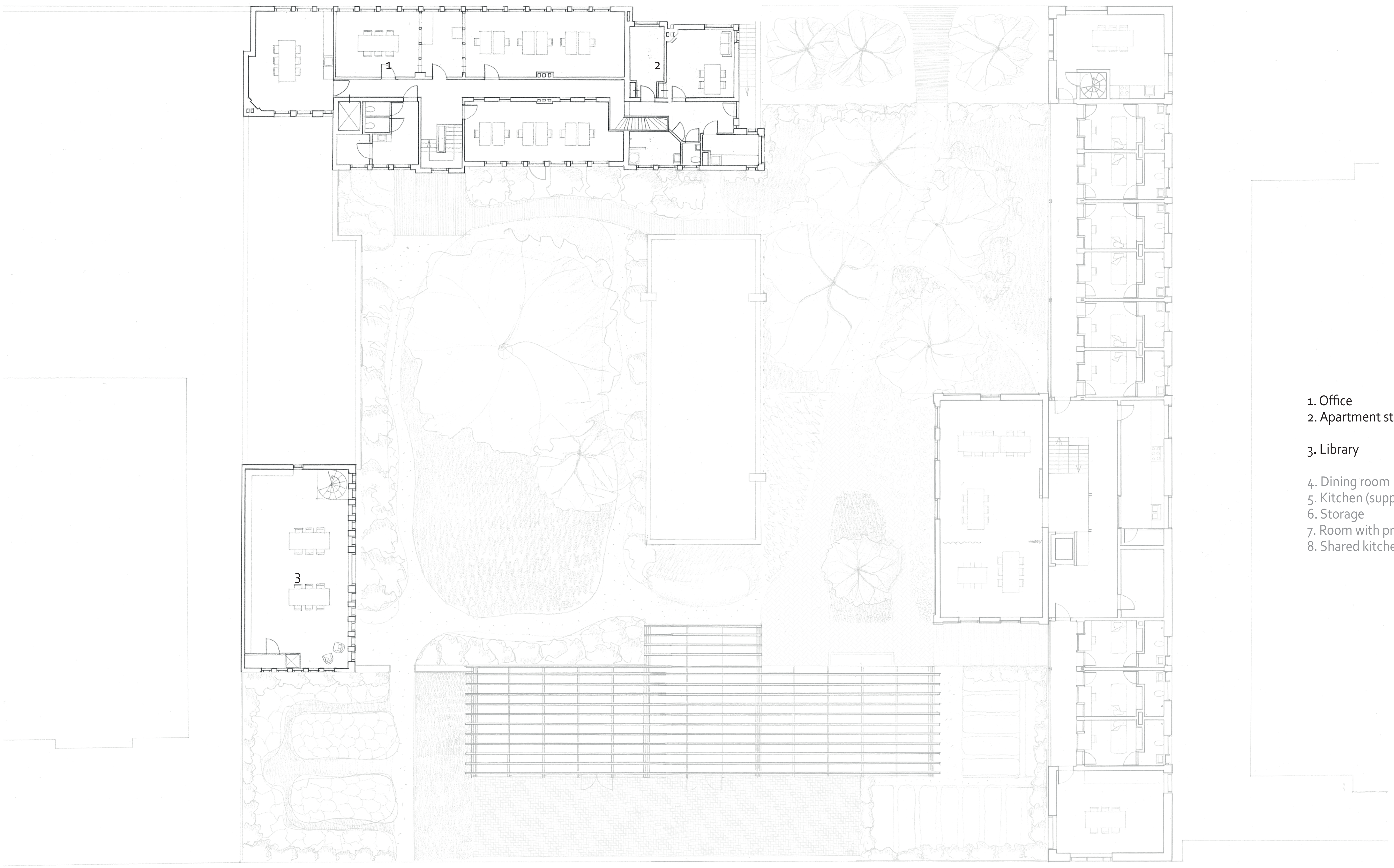
1. Office
2. Apartment staff

3. Library

4. Dining room
5. Kitchen (supporting dining room)
6. Storage
7. Room with private bathroom
8. Shared kitchen

First Floor

1:200



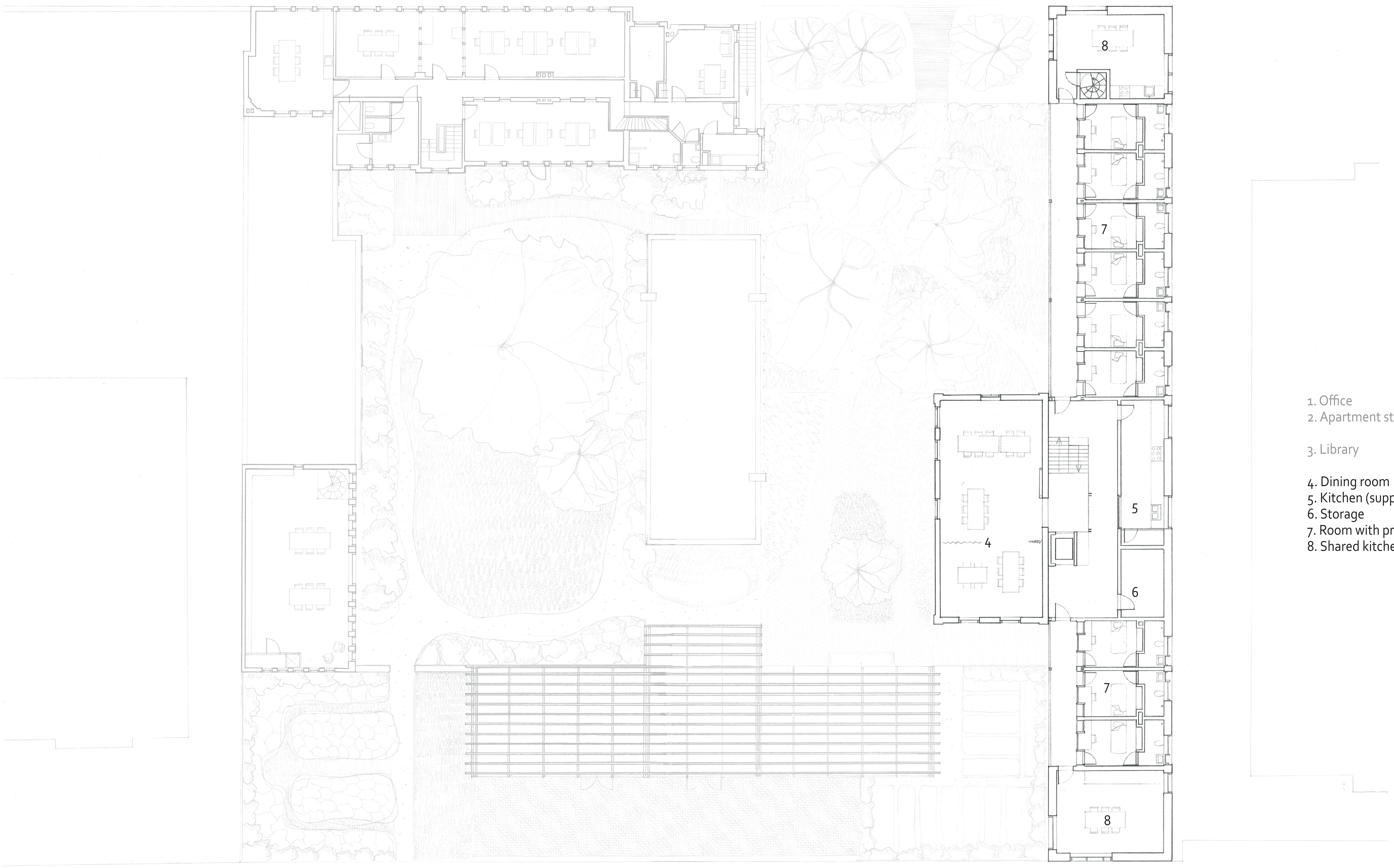
1. Office
2. Apartment staff

3. Library

4. Dining room
5. Kitchen (supporting dining room)
6. Storage
7. Room with private bathroom
8. Shared kitchen

First Floor

1:200



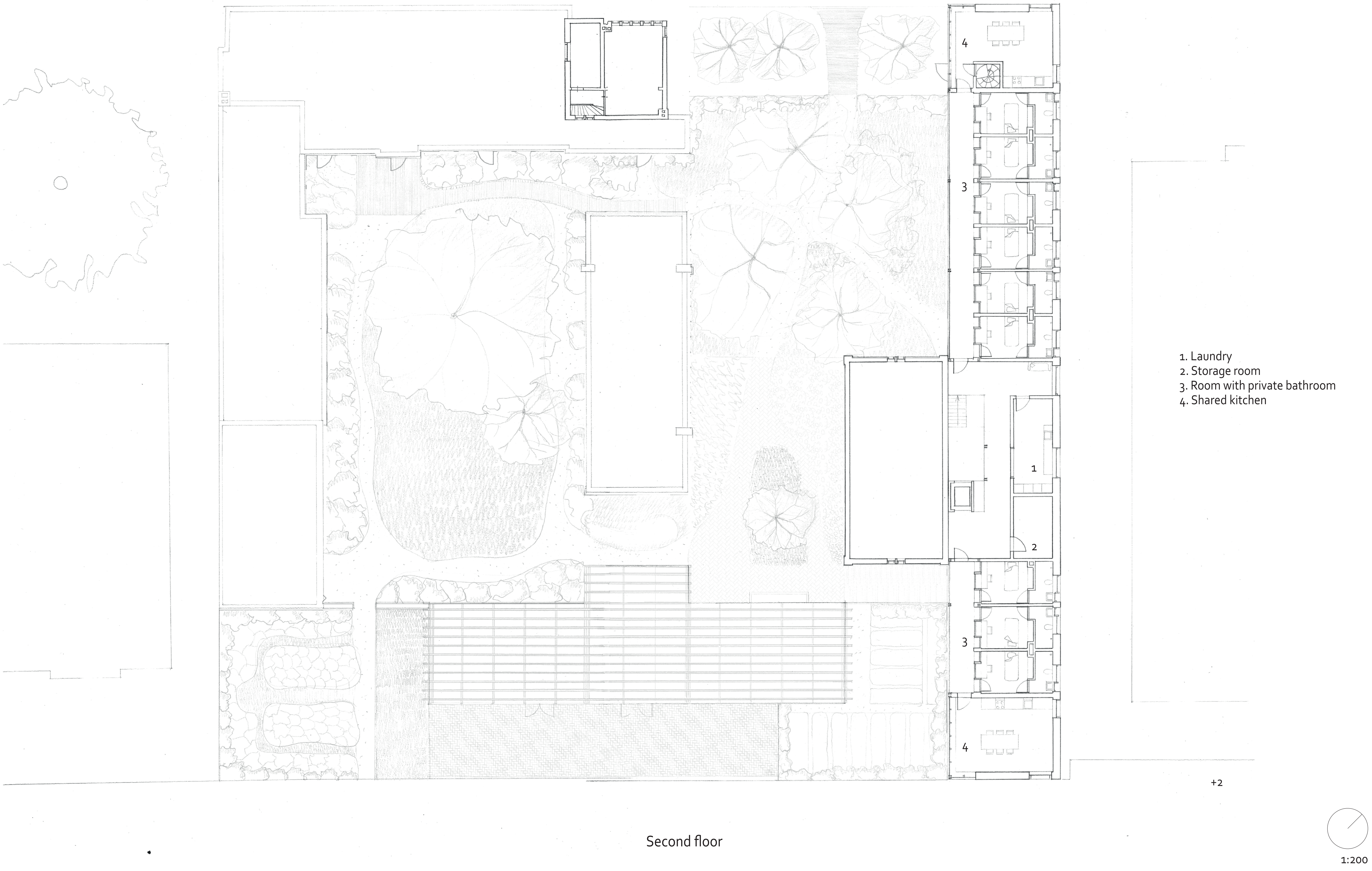
1. Office
2. Apartment staff

3. Library

4. Dining room
5. Kitchen (supporting dining room)
6. Storage
7. Room with private bathroom
8. Shared kitchen

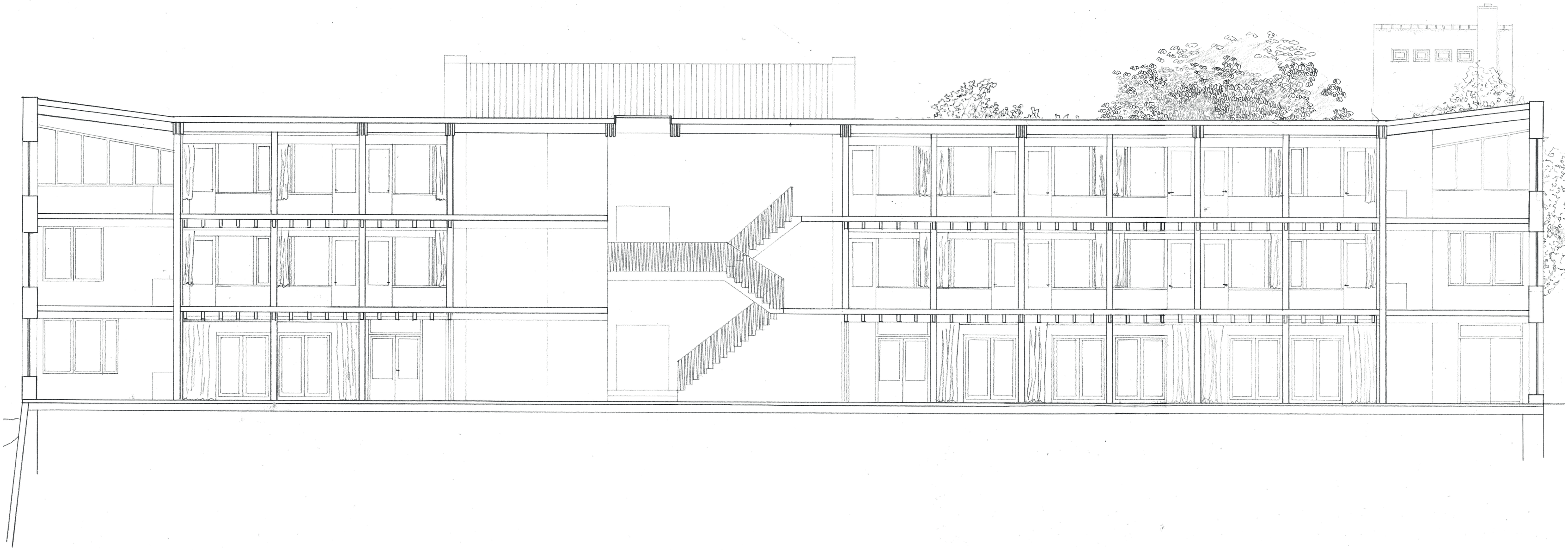
First Floor

1:200

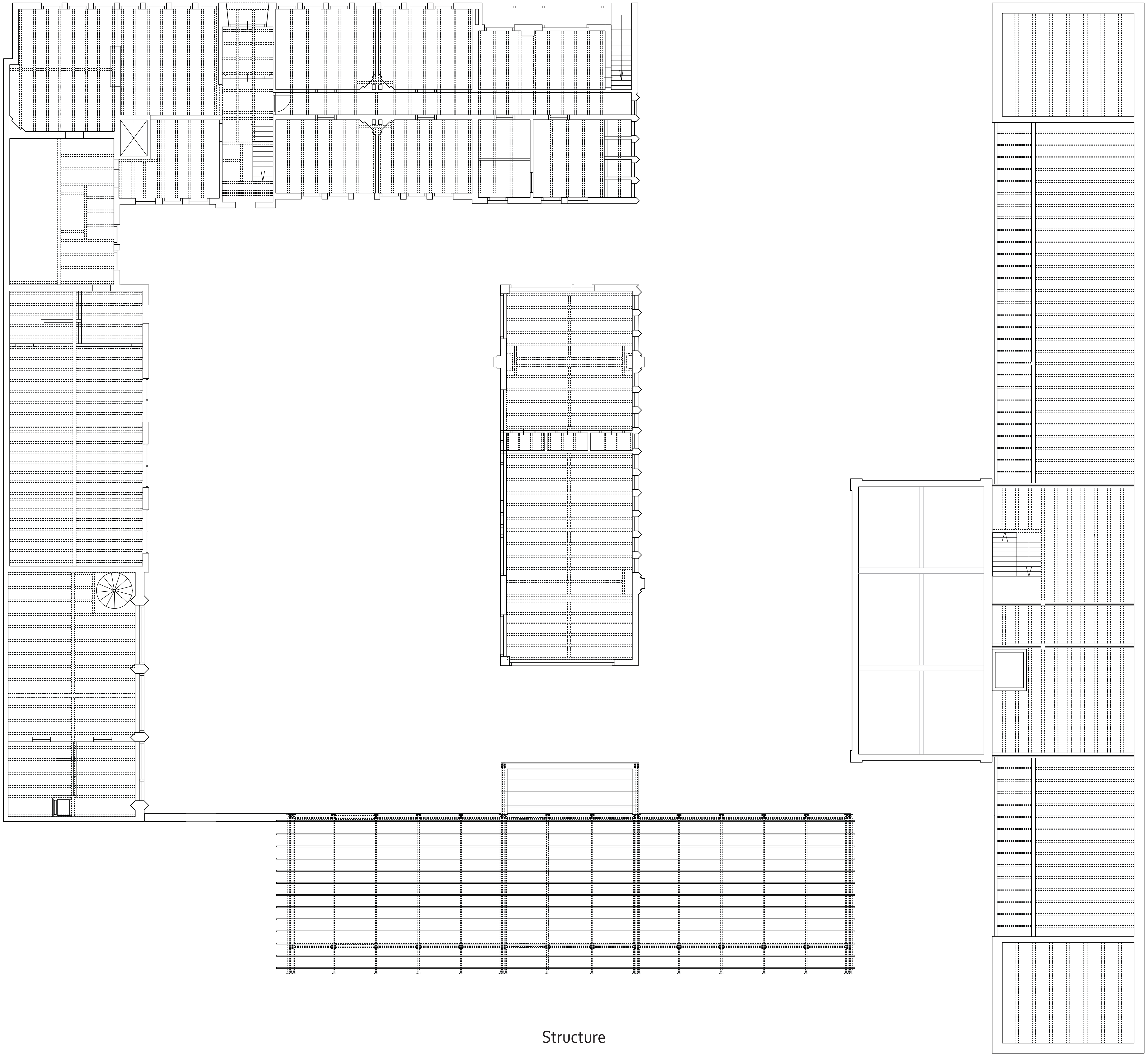


1. Laundry
2. Storage room
3. Room with private bathroom
4. Shared kitchen

Second floor



Section



Structure

Spruce | *Picea abies*

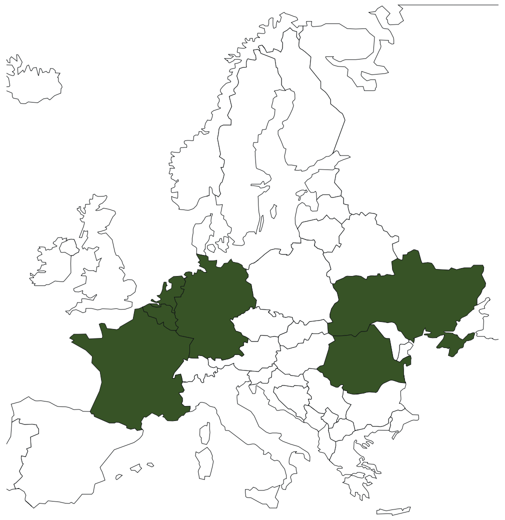
Coniferious wood
Harvesting after 60-90 years
Heigth: 25-35 m
Natural durabiltity: 5-10 years
Soft wood with good strenght properties

Douglas Fir | *Pseudotsuga menziesii (Mirb.) Franco*

Coniferious wood
Harvesting after 50-70 years
Heigth: 20-30 m
Natural durabiltity: 10-15 years
Soft wood with good strenght properties

European Oak| *Quercus petraea*

Deciduous
Harvesting after 175 - 200 years
Heigth: 18-30 m
Natural durabiltity: 15-25 years
Hard wood with medium strength properties.

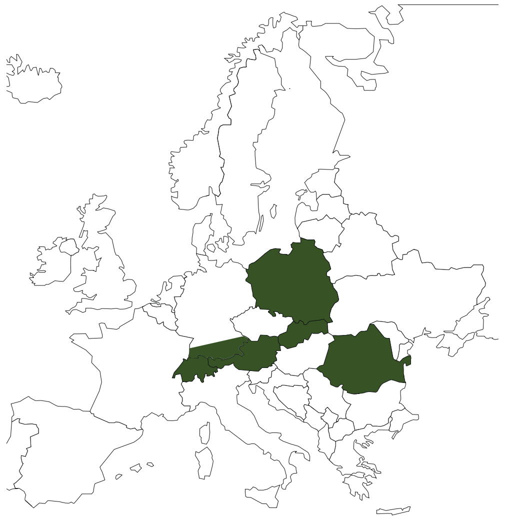


Pine wood | *Pinus sylvestris*

Coniferious wood
Harvesting after 70-90 years
Heigth: 10-30 m
Natural durabiltity: 5-15 years
Soft wood with good strenght properties

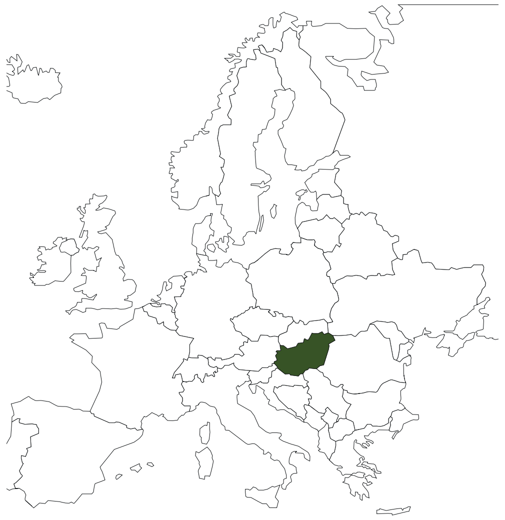
Larch | *Larix decidua*

Coniferious wood
Harvesting after 60-80 years
Heigth: 30-40 m
Natural durabiltity: 5-15 years
Soft wood with good strenght properties



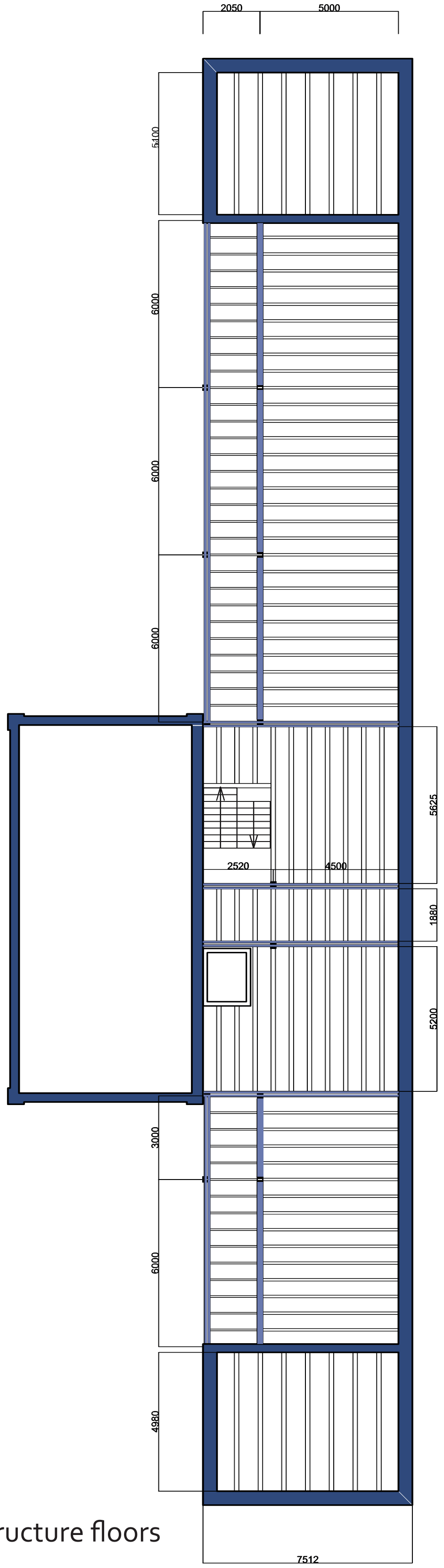
Robinia | *Robinia pseudoacacia L.*

Deciduous wood
Harvesting after 50-70 years
Heigth: 25-30 m
Natural durabiltity: 15-25years
Soft wood with good strenght properties

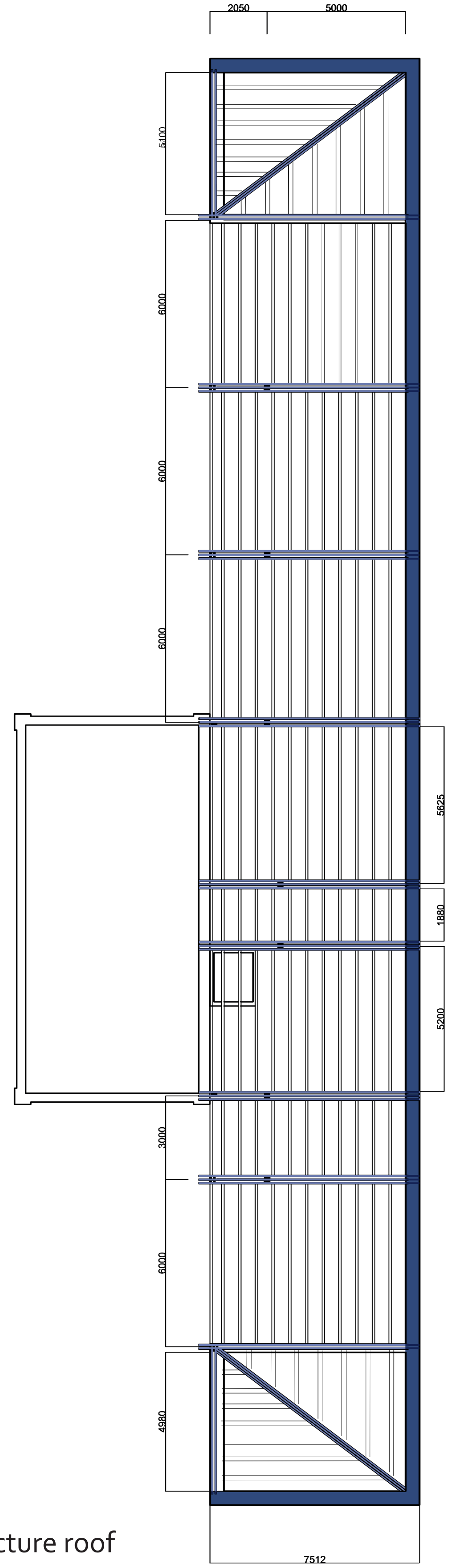


Wood species

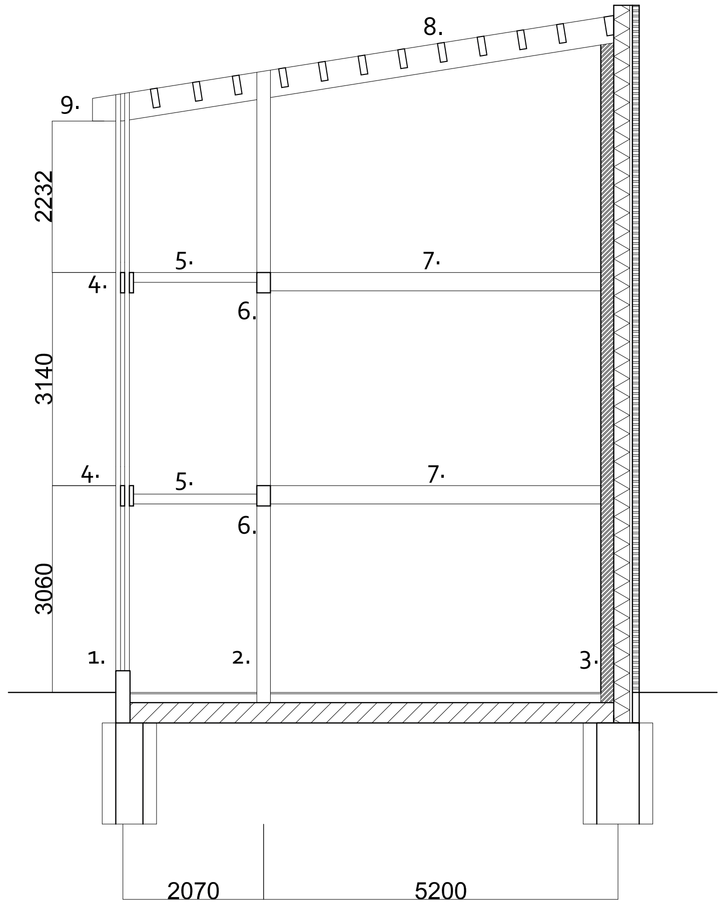
- Kolb, Josef. 2008. Systems in Timber Engineering : Load-bearing Structures and Component Layers
- Houtinfo.nl



Structure floors



Structure roof



Brick loadbearing wall

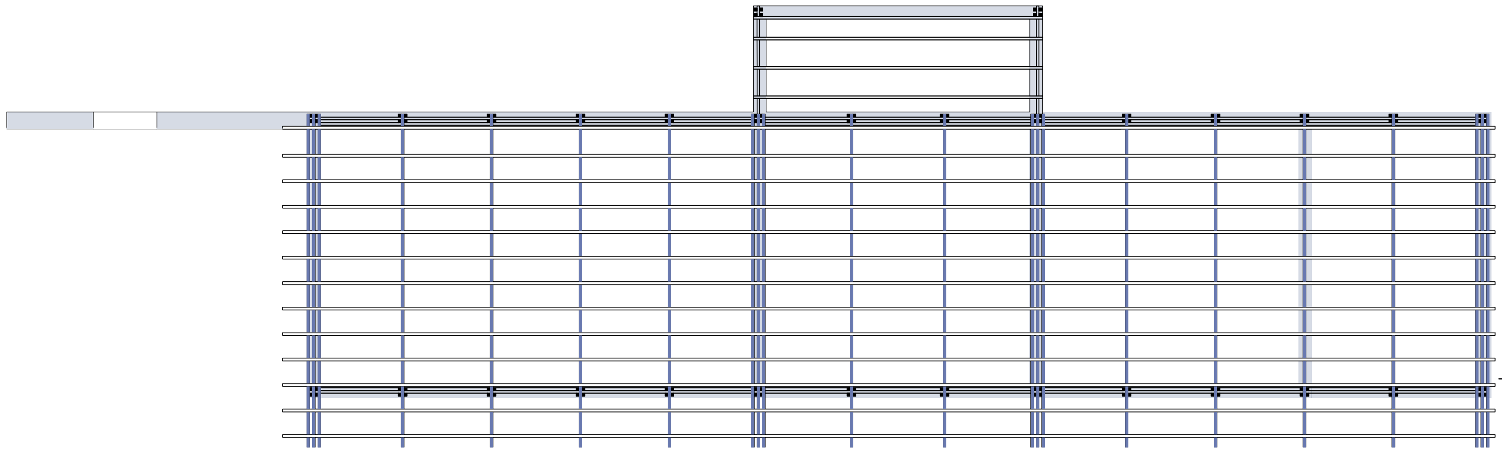
Sawn timber beams
(Douglas fir)

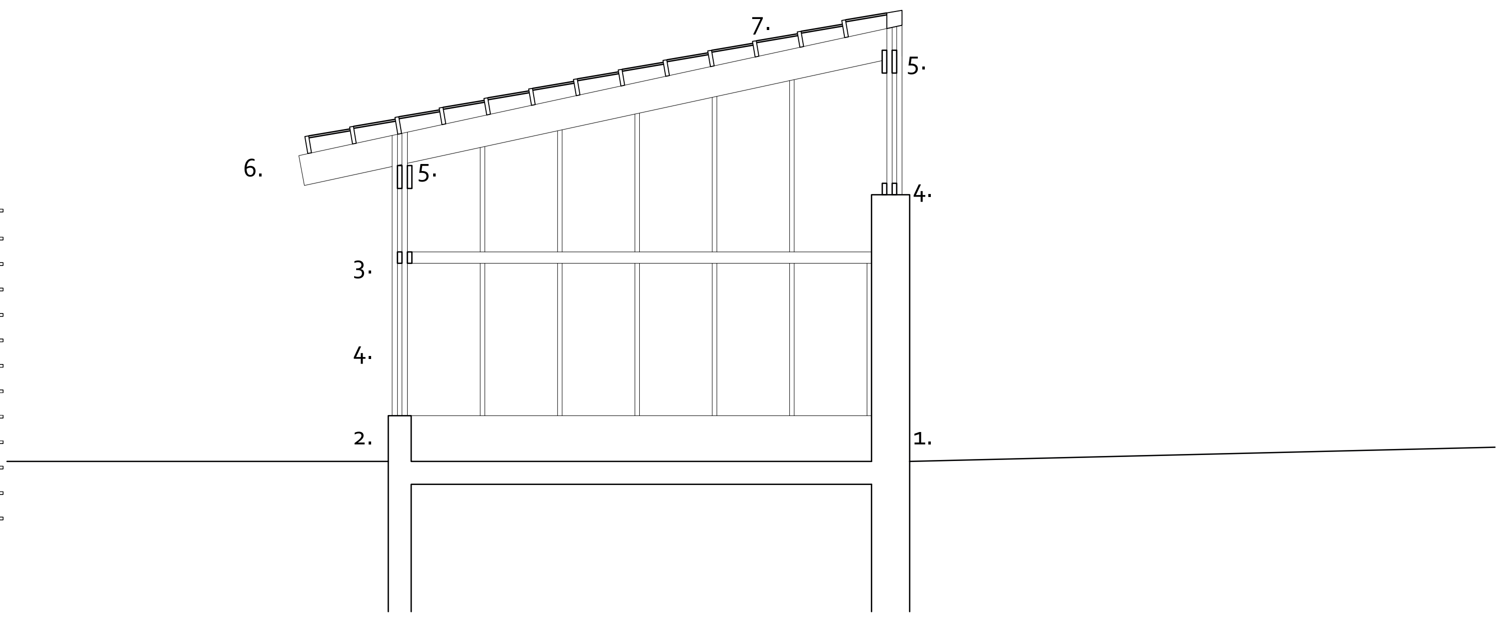
Sawn timber column
(Douglas fir)

Sawn timber beams
(Douglas fir)

1. Column 4x 75 x 75 mm
2. Column 2x 75 x 200 mm
3. Load bearing brick wall 190 mm
4. Beam 2x 60x250 mm (bxh)
5. Beam 60 x 145 mm (bxh)
6. Beam 200 x 300 mm (bxh)
7. Beam 90 x 270 mm (bxh)
8. Beam 100 x 280 mm (bxh)
9. Beam 3x 60 x 240 mm (bxh)

Structure





Brick loadbearing wall

Sawn timber beams
(Douglas fir)

Sawn timber column
(Douglas fir)

Sawn timber pergola
(Douglas fir)

1. Brick wall 400 mm
2. Brick wall 300 mm
3. Column 4 x 75 x 75 mm
4. Beam 2x 60 x 150 mm (bxh)
5. Beam 2x 60 x 300 mm (bxh)
6. Beam 3x 60 x 400 mm (bxh)
7. Beam 50 x 200 mm (bxh)

Structure

Street elevation

Street elevation

Street

Forest garden

1. Elm
2. Medlar
3. Wild Apple
4. Wild Cherry
5. Wild service tree
6. Red Raspberry
7. Gooseberry
8. Blackthorn

A. Bear's garlic
Sweetscented bedstraw
Common sorrel

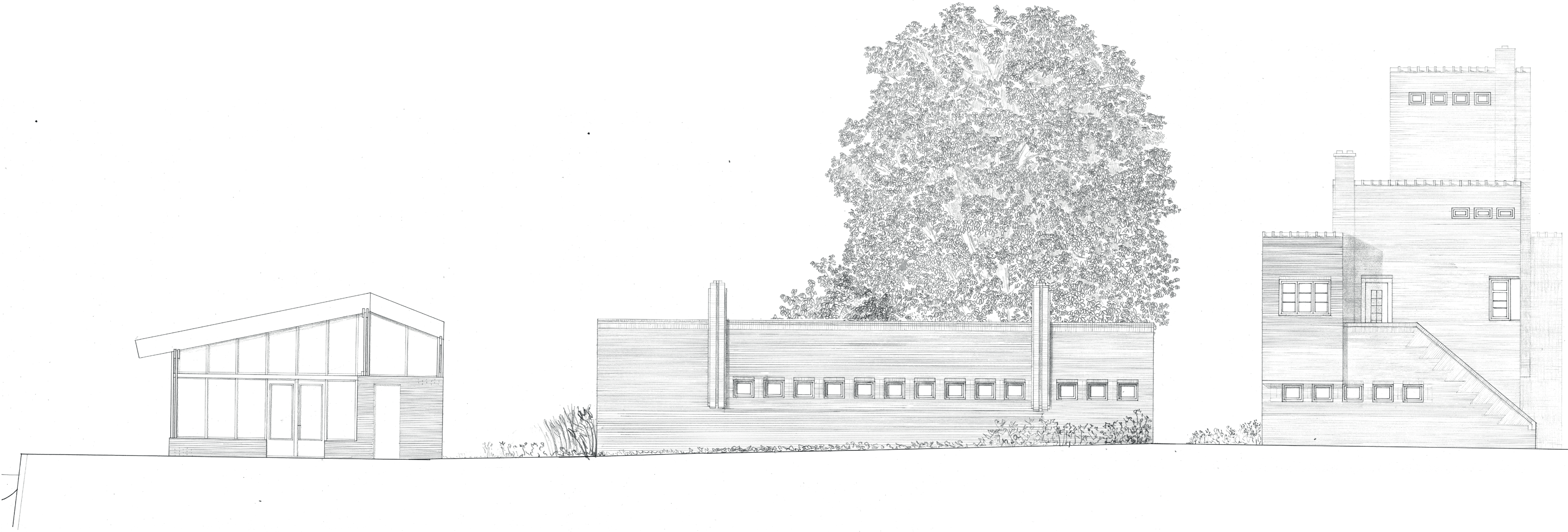
B. Musk mallow
Black thorn
Hop
Common comfrey
Sweetscented bedstraw

C. Chicory
Cranberry
Sweet violet
Sweetscented bedstraw

D. Chicory
Tuberous pea
Winter aconite

Section forest garden

Forest garden



Elevaton greenhouse

Courtyard

1. Chesnut (existing)
2. Sweet Chesnut

A. Sweet violet
Chicory
Chamomille
Bergamot

B. Honeysuckle
Scarlet Runner Beans

C. Lilac
Chrysant
Lavender

D. Honeysuckle
Scarlet Runner Beans

E. Watermint
Marsh marigold
Yellow Flag
Shininng pondweed

F. Ramanas Rose
Chicory
Hop

G. Red raspberry
Gooseberry
Common Comfrey

H. Mowed lawn

Section Courtyard

Courtyard

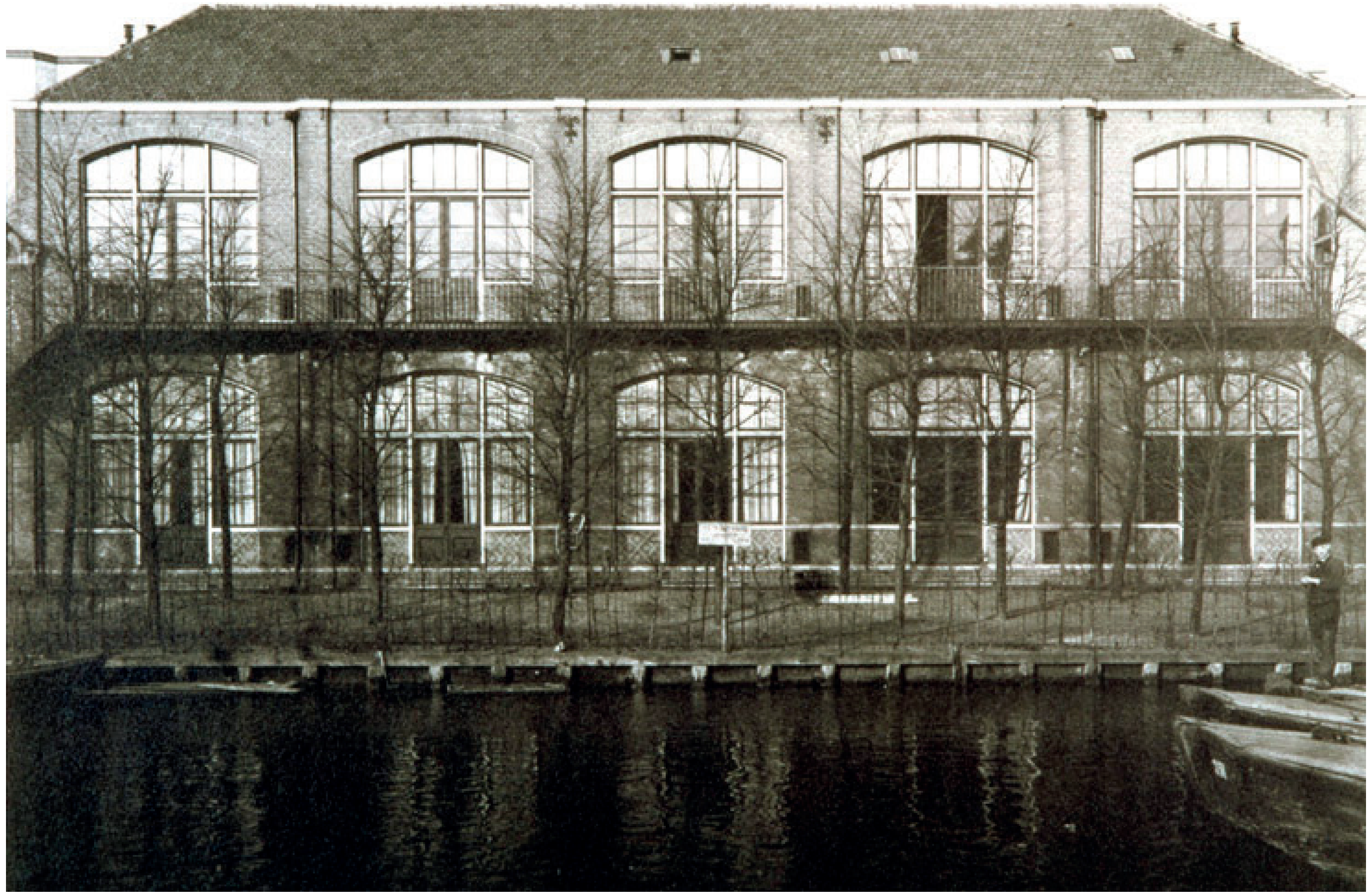
Memorial garden

1. Elm

A. Wild strawberry
Yellow Archangel
Periwinkle

B. Broad leaved thyme
Ground-ivy

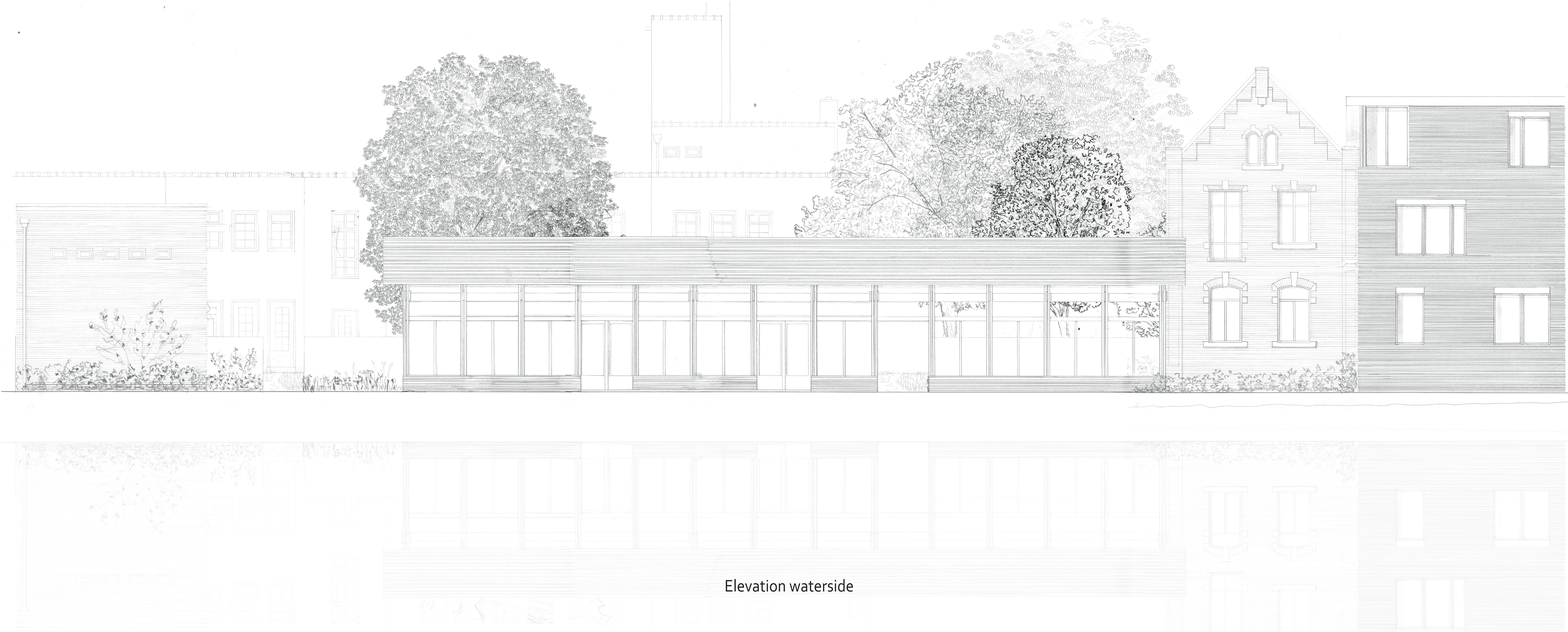
C. Ivy



Sophie Rosenthal School

Section

Memorial garden



Elevation waterside

Waterfront

Flower garden

Flower beds

1. Dame's Rocket
2. Lavender
3. Wild Carrot
4. Calendula
5. Dianthus
6. Peony
7. Nasturtium
8. Chrysantemum
9. Perennial Phlox
10. Lavender
11. Marigold
12. Chives
13. Borage
14. Impatiens
15. Nasturtium
16. Cilantro
17. Marigold
18. Thyme
19. Sweet William
20. Begonia
21. Begonia
22. Cilantro
23. Primrose
24. Dianthus
25. Wild Bergamot
26. Sage
27. Day Lilies
28. Rosemary
29. Chives
30. Chicory
31. Peony
32. Sun Flower
33. Anise Hyssop
34. Day Lilies
35. Basil
36. Violet
37. Angelica
38. Arugula
39. Garlic
40. Lemon Bergamot
41. Mint
42. Pea
43. Fennel
44. Mint
45. Arugula
46. Angelica
47. Lemon Bergamot
48. Pea

Border

A. Rose
B. Hollyhock
C. Scarlet Runner Bean
D. Lilac
E. Ramanas Rose

Wild flower lawn

- Clover
- Papaver
- Valerian
- Dill
- Chamomille
- Sorrel
- Cornflower
- Chervil
- Dandelion
- English Daisy
- Anise Hyssop
- Corncockle

Flower garden species

Flower garden

Elevation

Vegetable garden

A. Tomato
Pumkins
Sunflowers
Borage

B. Celery
Spinach
Pea
Strawberry
Lettuce

C. Raspberry

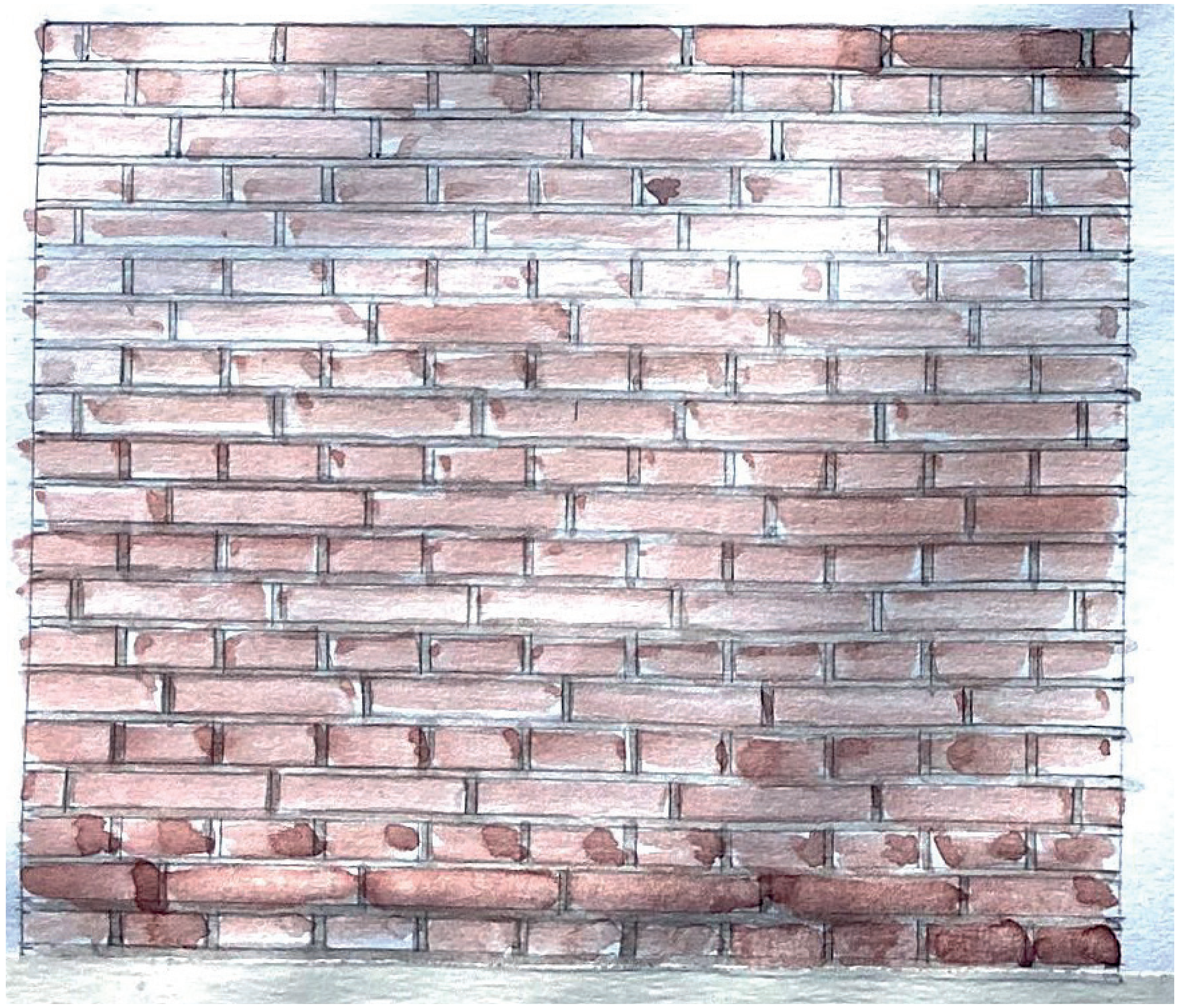
D. Parsnip
Beetroot
Courgette
Carrot
Endive
Cucumber
Rhubarb
Kale
Cabbage

E. Blackberry
Red currant
Black currant

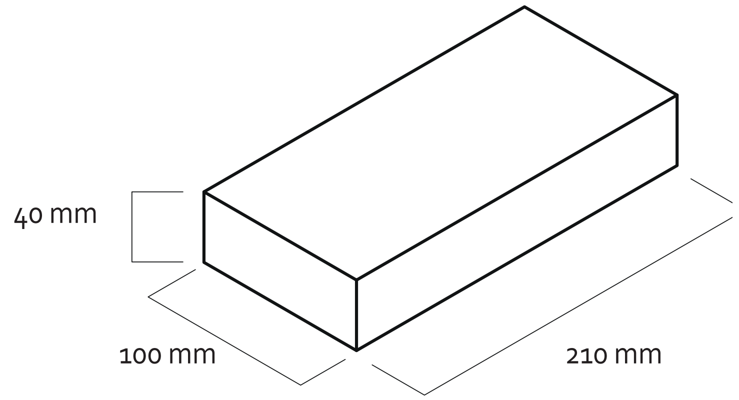
Vegetable garden

Waterfront

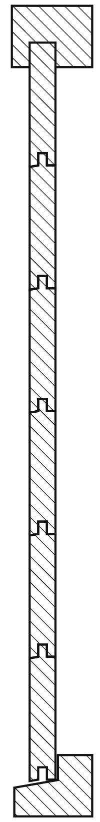
Facade fragment



Brick wall
Cross bond
Vechtformaat

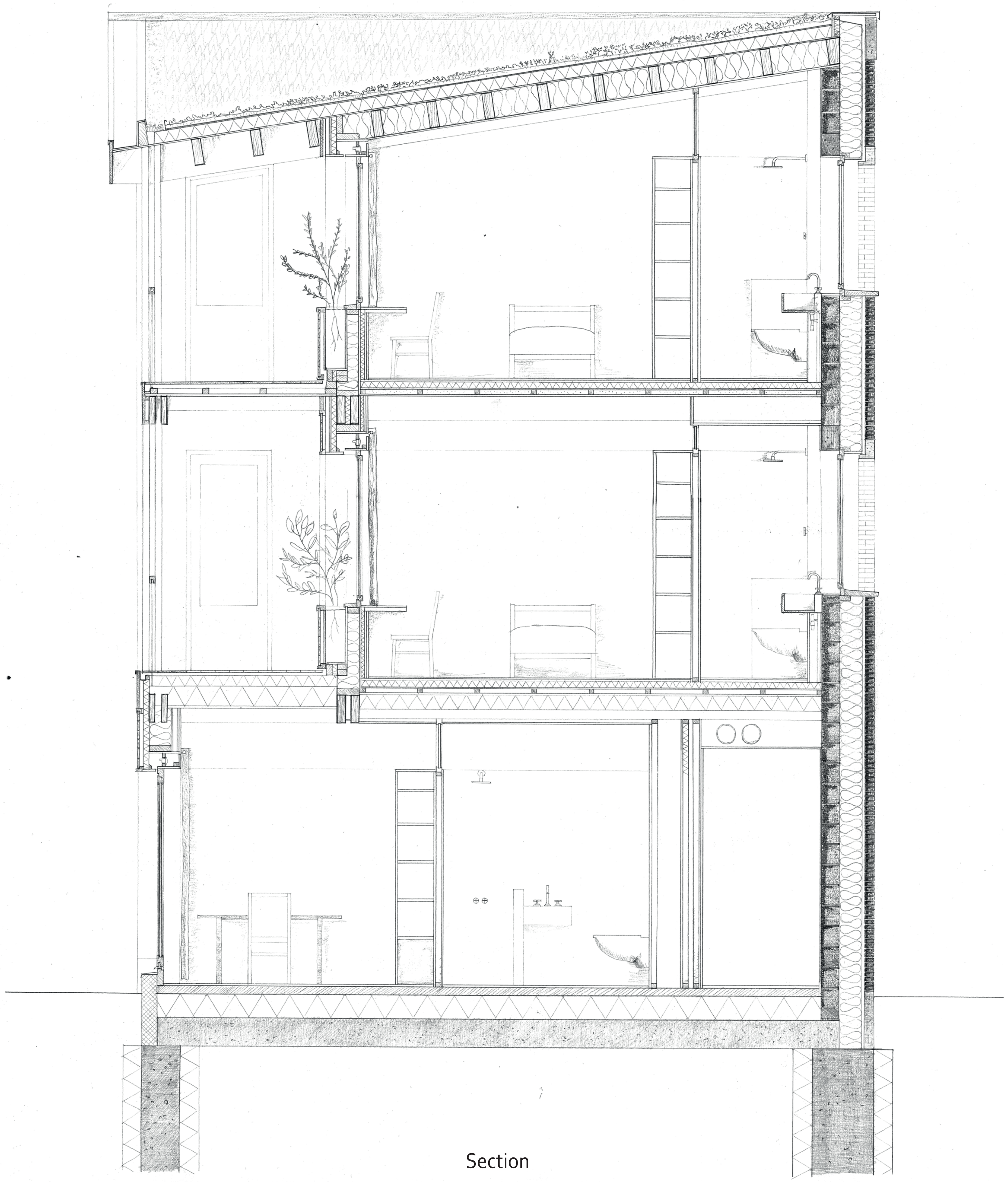


Facade brick



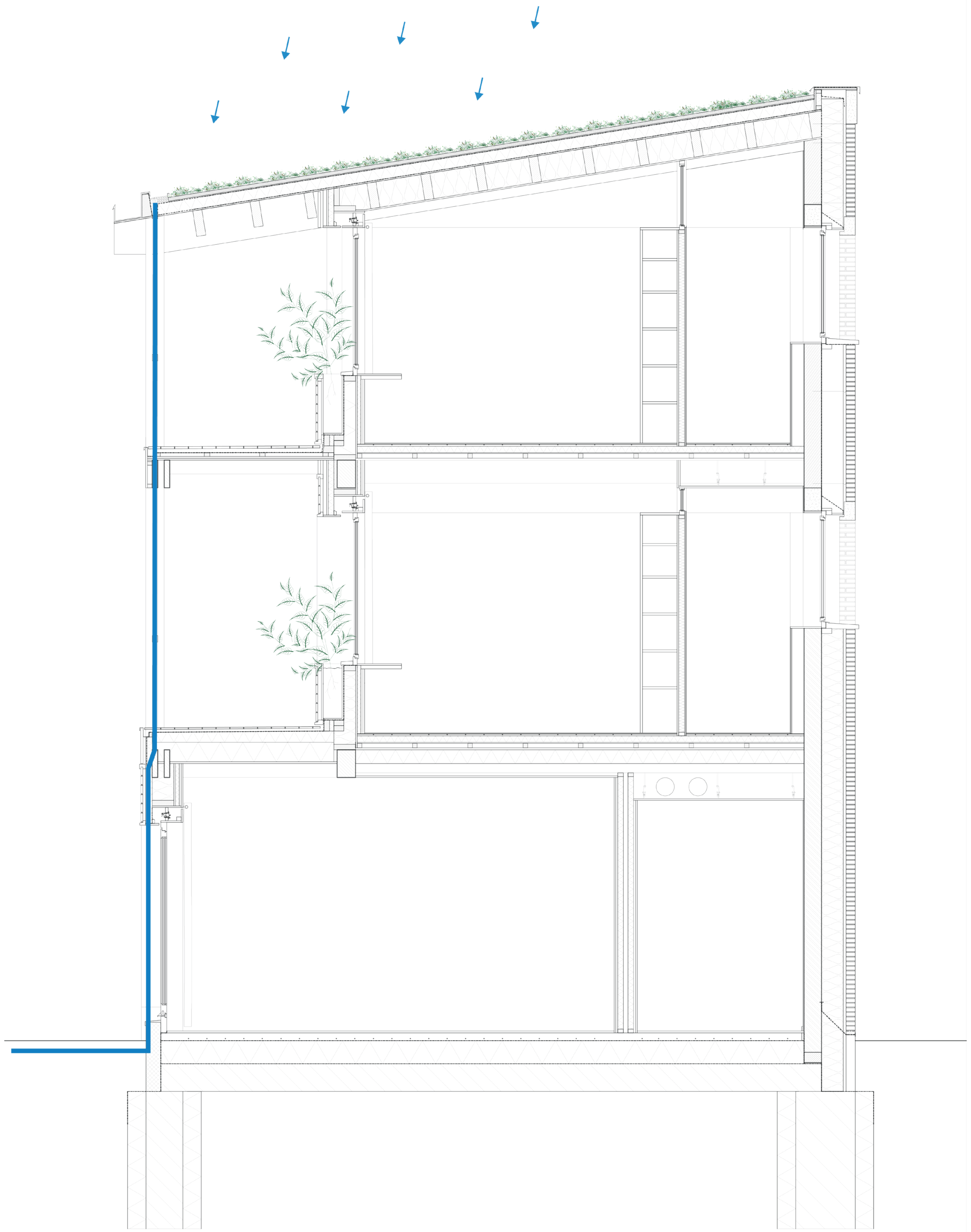
Silver fir wood
Double oiled (Tongue and groove)
22 mm in frame

Facade panel

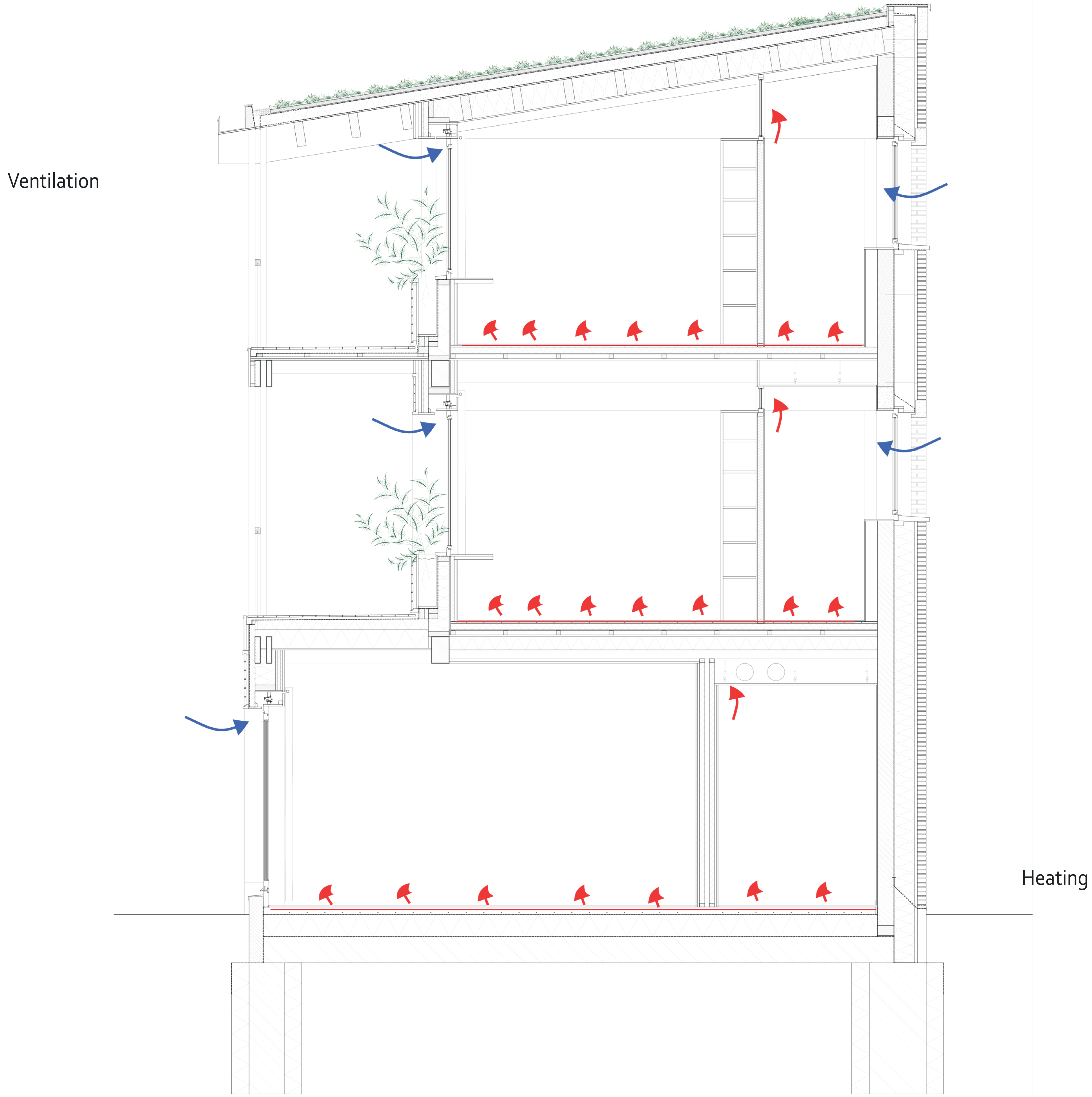


Section

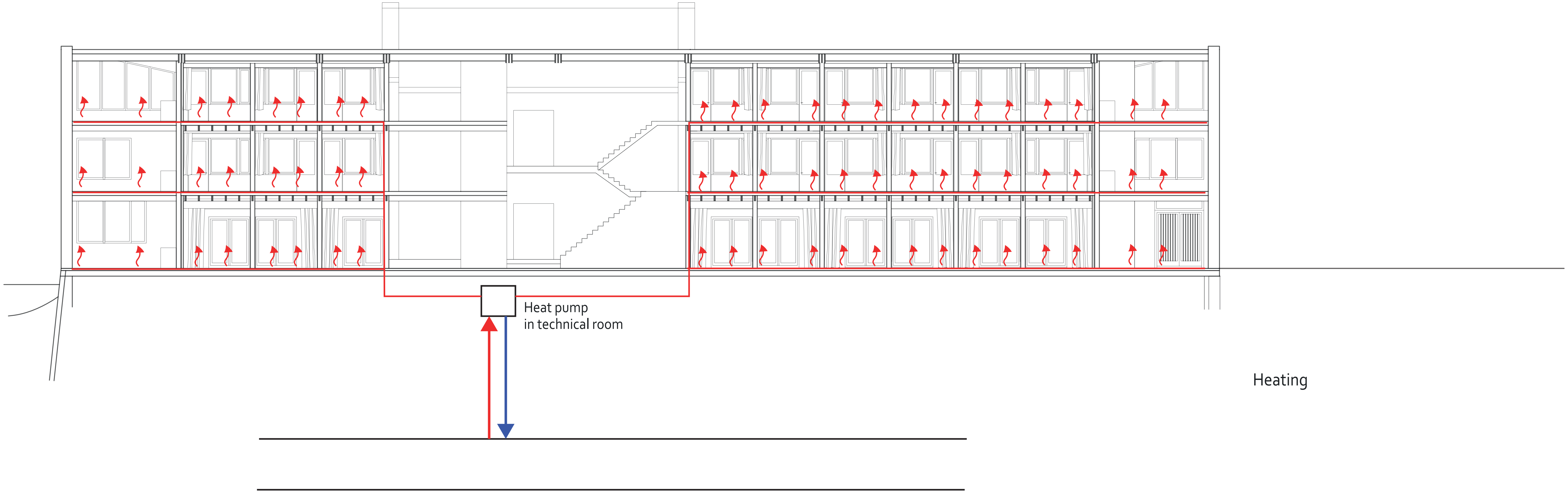
Gallery



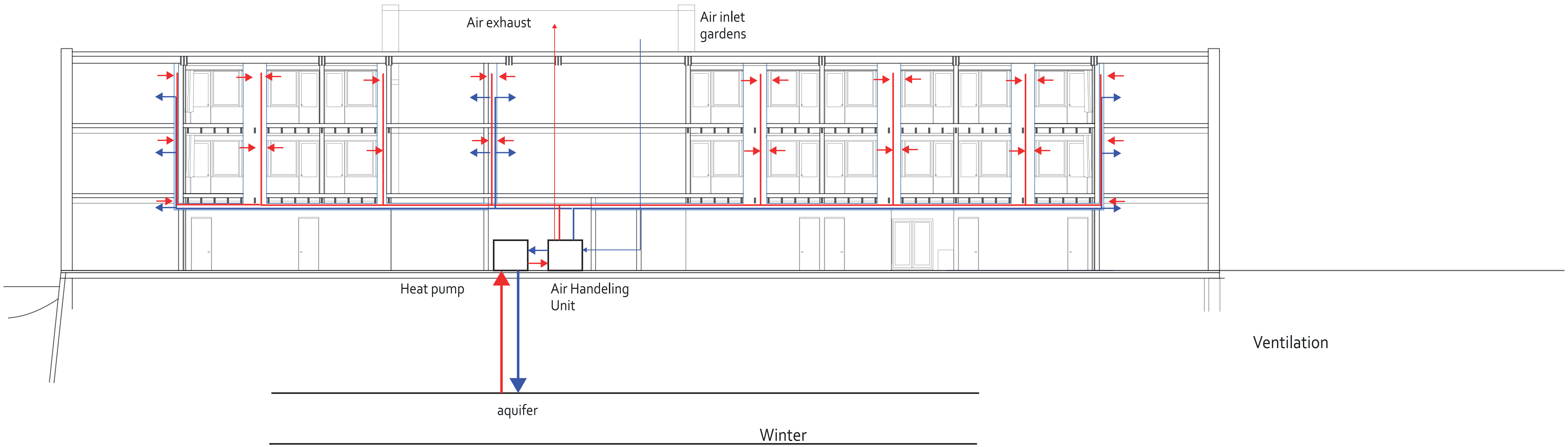
Rainwater



Heating and ventilation rooms

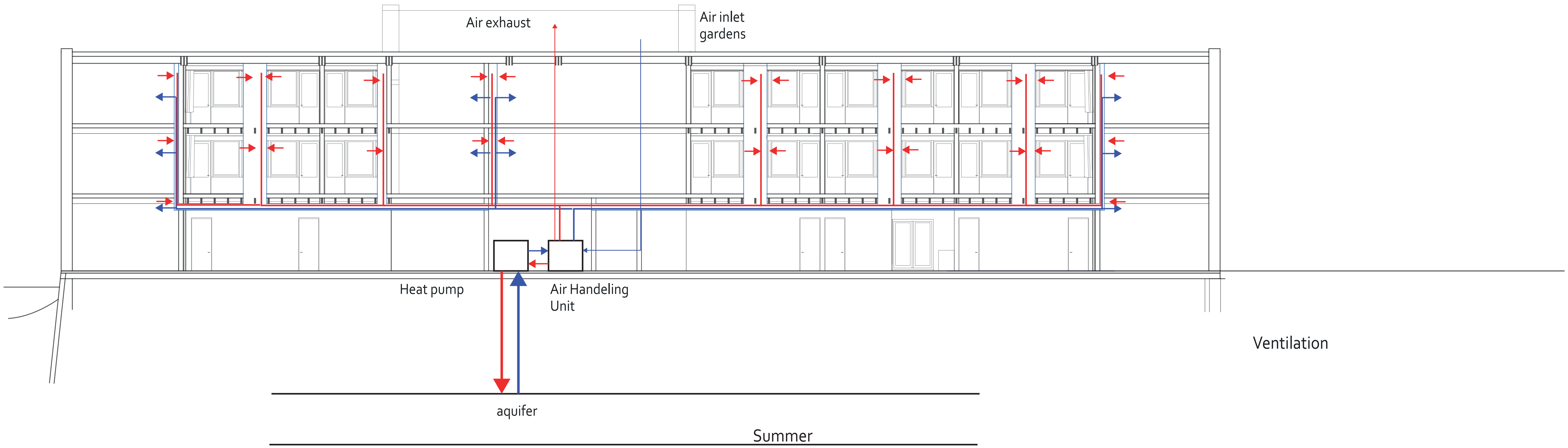


Heating

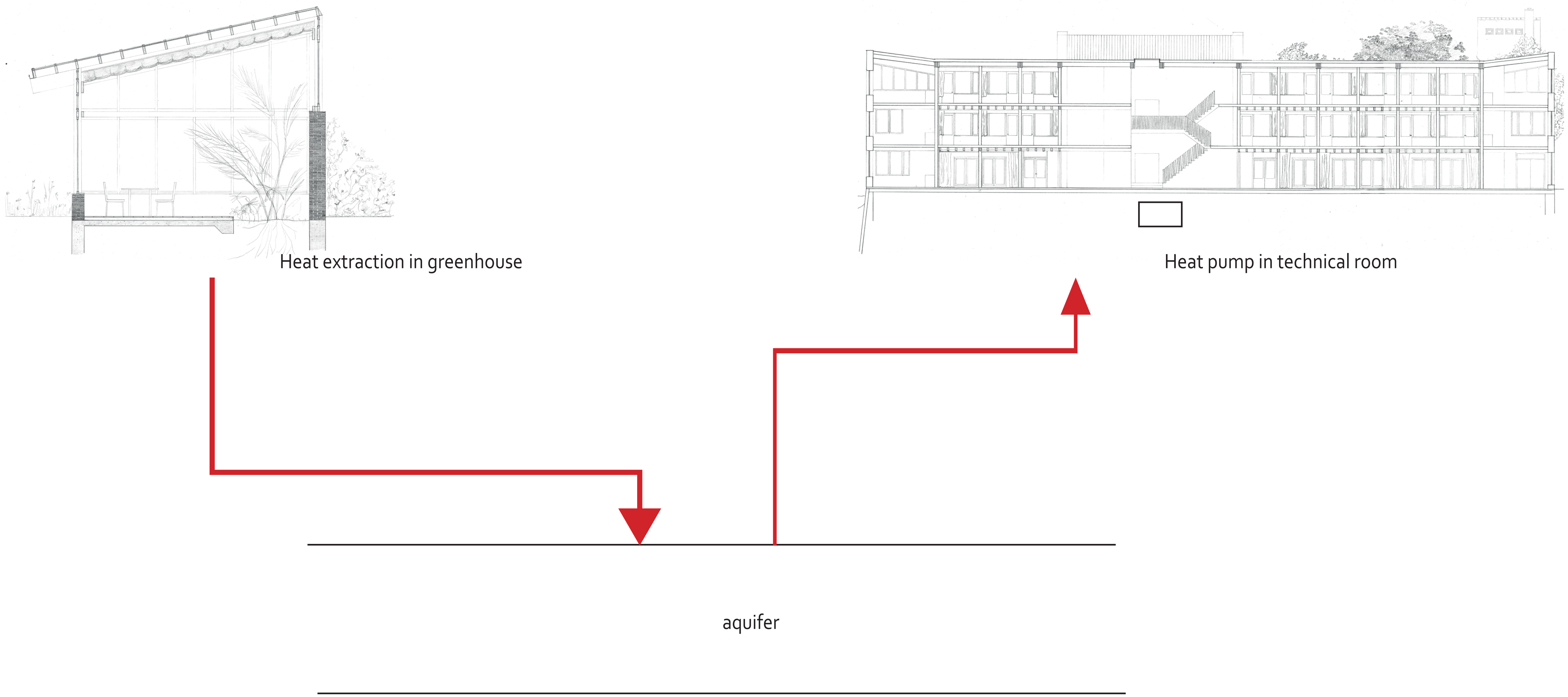


Ventilation

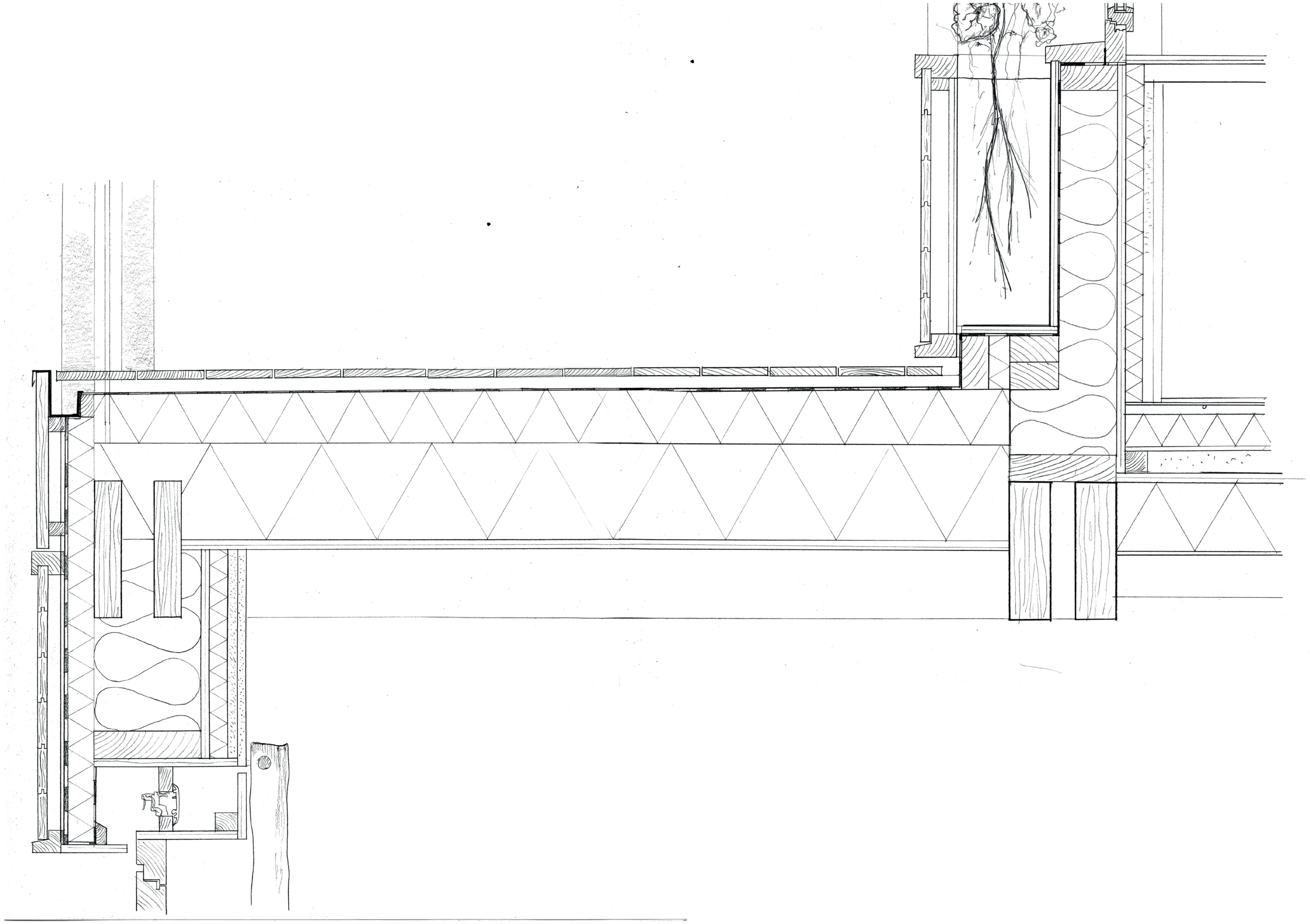
Winter



Ventilation



Heat extraction

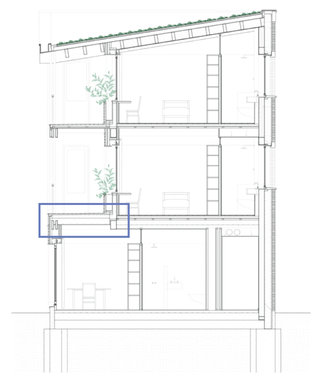


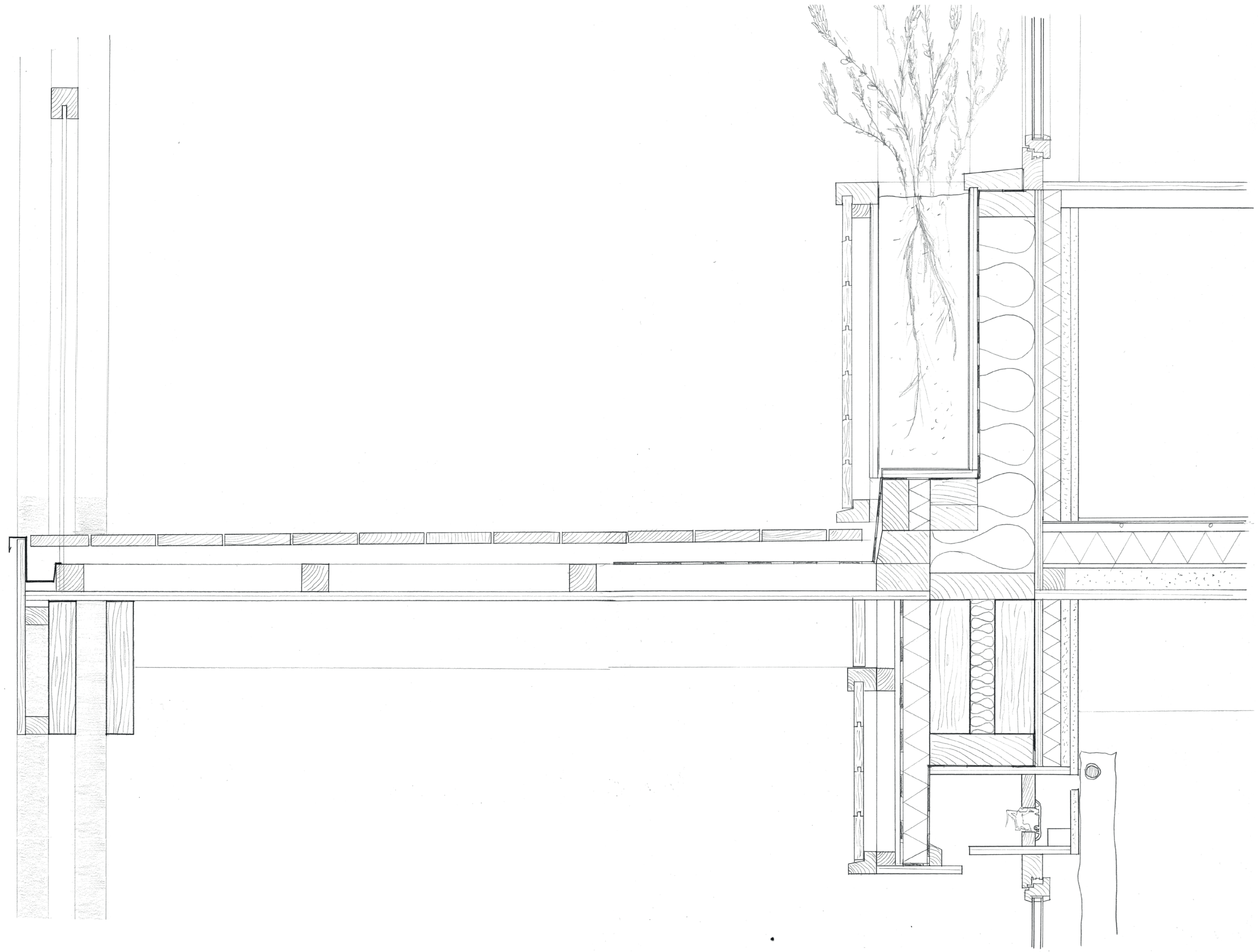
Floor construction

Finish Marmoleum	10 mm
Fill mass	4 mm
Fermacell studded plate with heating pipes	20 mm
Impact sound Insulation	70 mm
Timber sheathing	21 mm
Battens fixed	50 x 50 mm
Dry sand	50 mm
Sheet to prevent loss of sand	
Timber sheathing	21 mm
Homatherm insulation	150 mm
Flooring-grade boards	21 mm

Wall construction

Timber finish elements	20 mm
Ventilated cavity (airtight membrane)	40 mm
Bitumen-Impregnated wood fibre	60 mm
Timber studding, insulation (Flexible woodfibre insulation board)	235 mm
Wood-based board, OSB (vapour check)	18 mm
Battens (space for services)	40 mm
Inner lining with clay plaster	18 mm



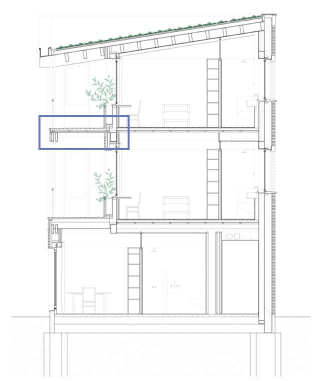


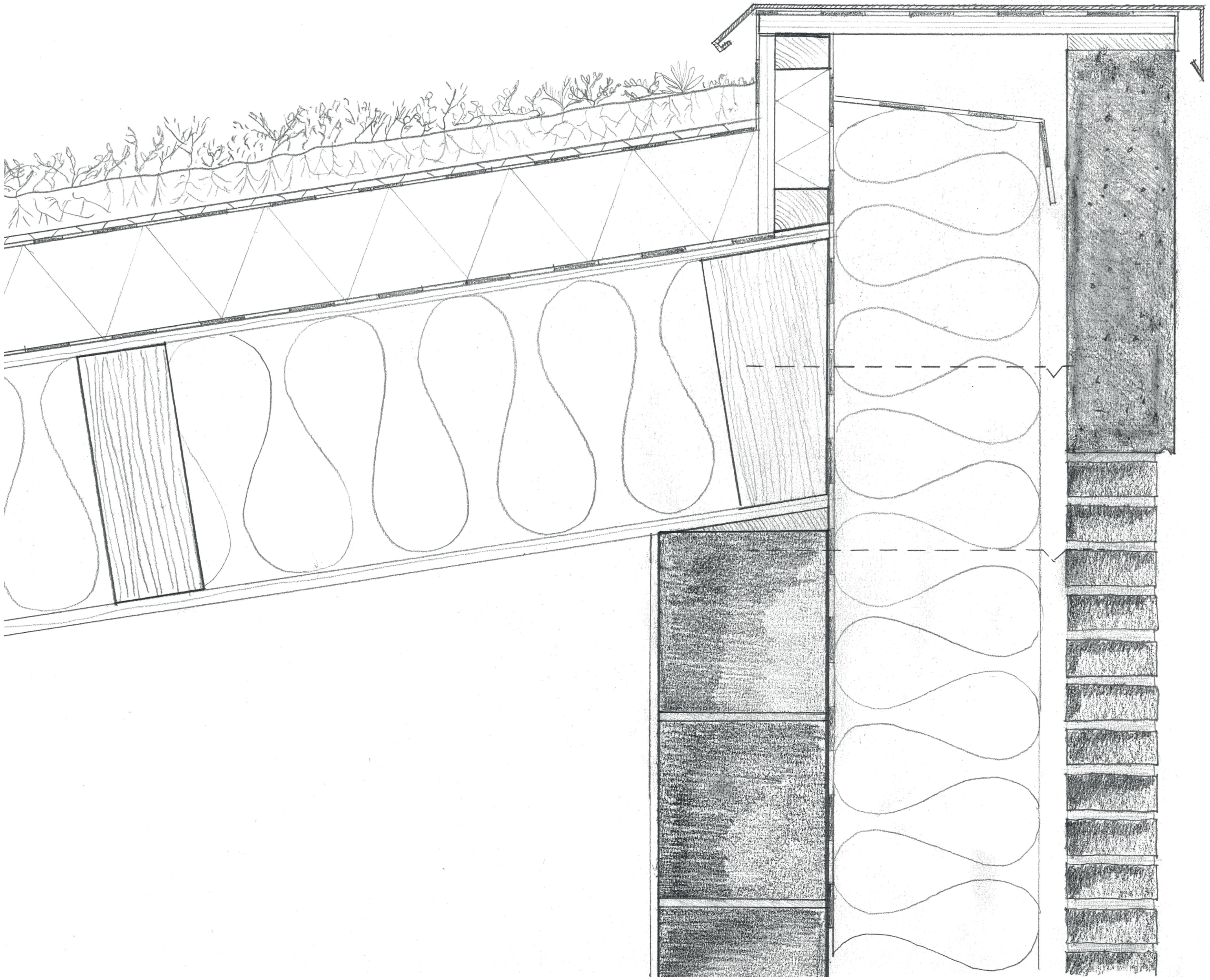
Floor construction

Finish Marmoleum	10 mm
Fill mass	4 mm
Fermacell studded plate with heating pipes	20 mm
Impact sound Insulation	70 mm
Timber sheathing	21 mm
Battens fixed	50 x 50 mm
Dry sand	50 mm
Sheet to prevent loss of sand	
Timber sheathing	21 mm

Wall construction

Timber finish elements	20 mm
Ventilated cavity (airtight membrane)	40 mm
Bitumen-Impregnated wood fibre	60 mm
Timber studding, insulation (Flexible woodfibre insulation board)	235 mm
Wood-based board, OSB (vapour check)	18 mm
Battens (space for services)	40 mm
Inner lining with clay plaster	18 mm





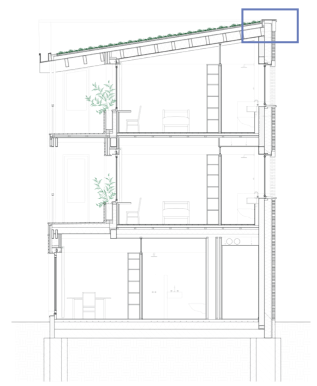
Detail roof edge

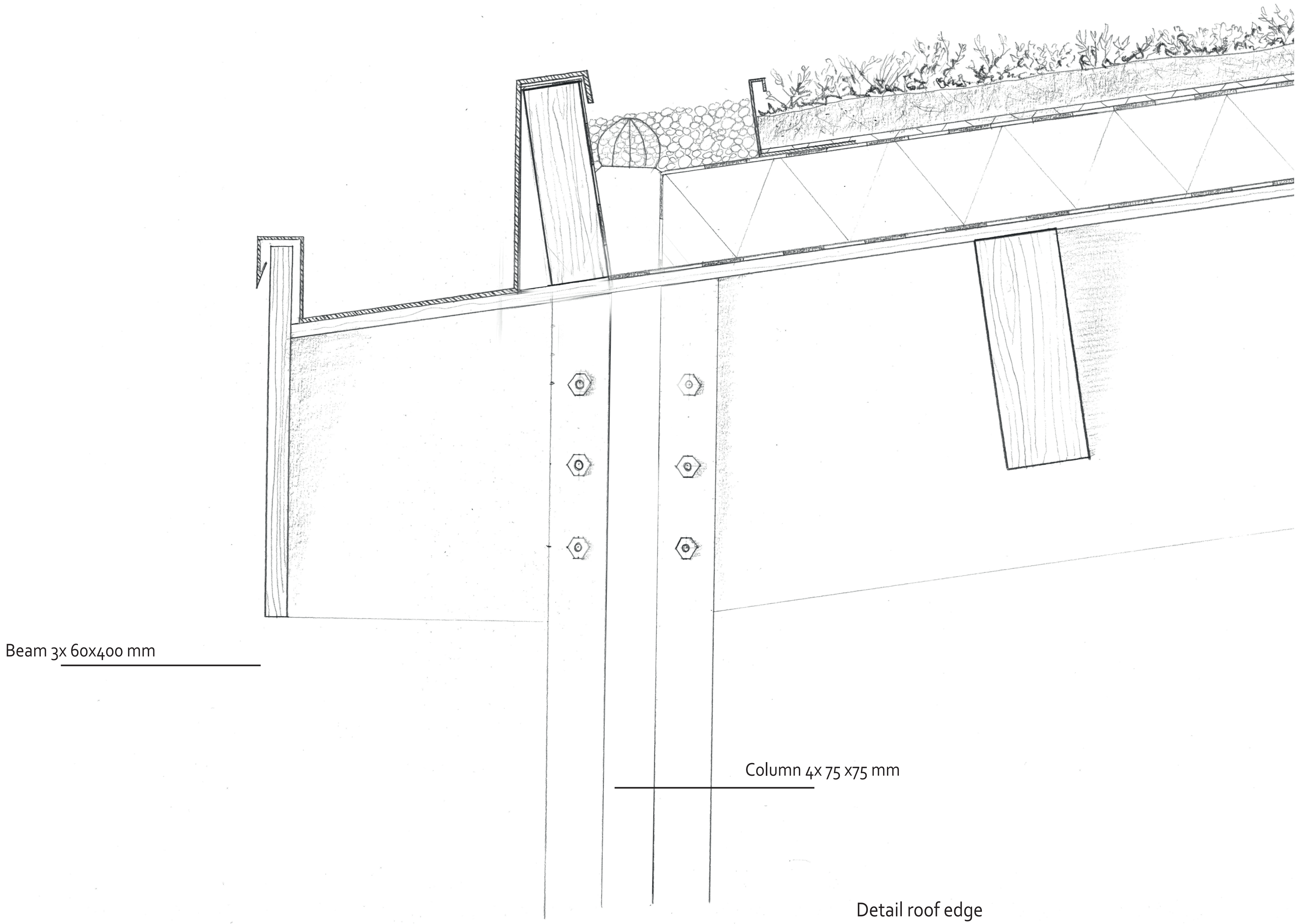
Roof construction

Substrate for sedum planting	30 mm
Drainage protection mat	10 mm
Calendered polymeric roofing	
Underlayment	20 mm
Thermal insulation	18 mm
Vapour barier	120 mm
Roof beams	100 x 280 mm
Thermal insulation	280 mm
Timber sheathing	18 mm

Wall construction

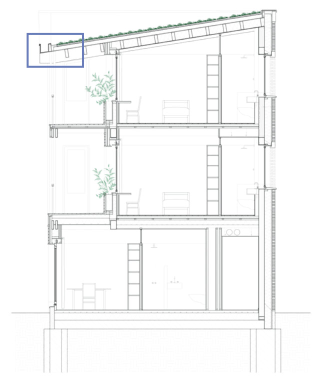
Clay masonry	100 mm
Ventilated cavity	30 mm
Watertight membrane	
Thermal insulation	235 mm
Clay masonry	190 mm
Plaster	10 mm



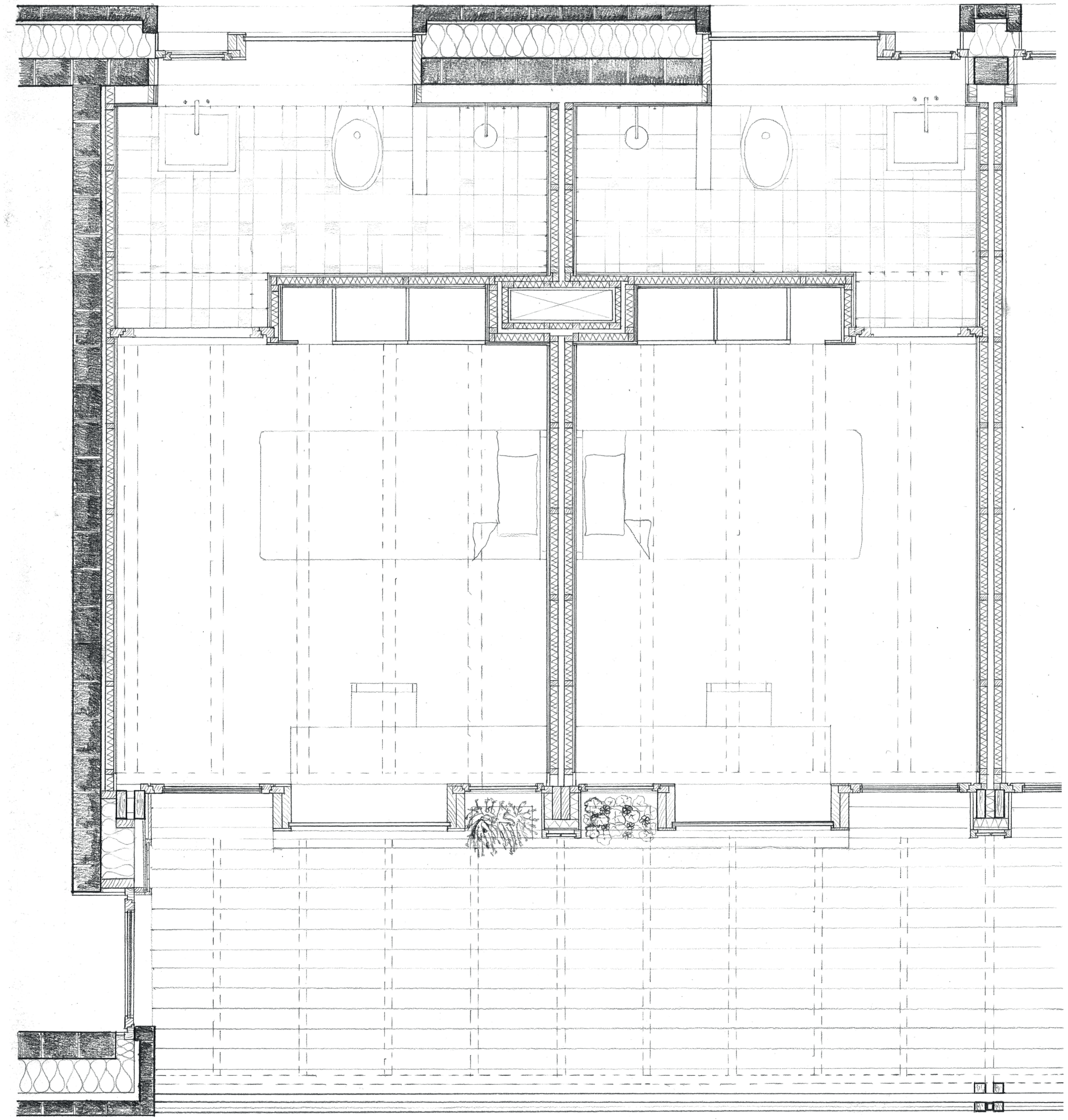


Roof construction

Substrate for sedum planting	30 mm
Drainage protection mat	10 mm
Calendered polymeric roofing	20 mm
Timber sheathing	18 mm
Roof beams	280 mm



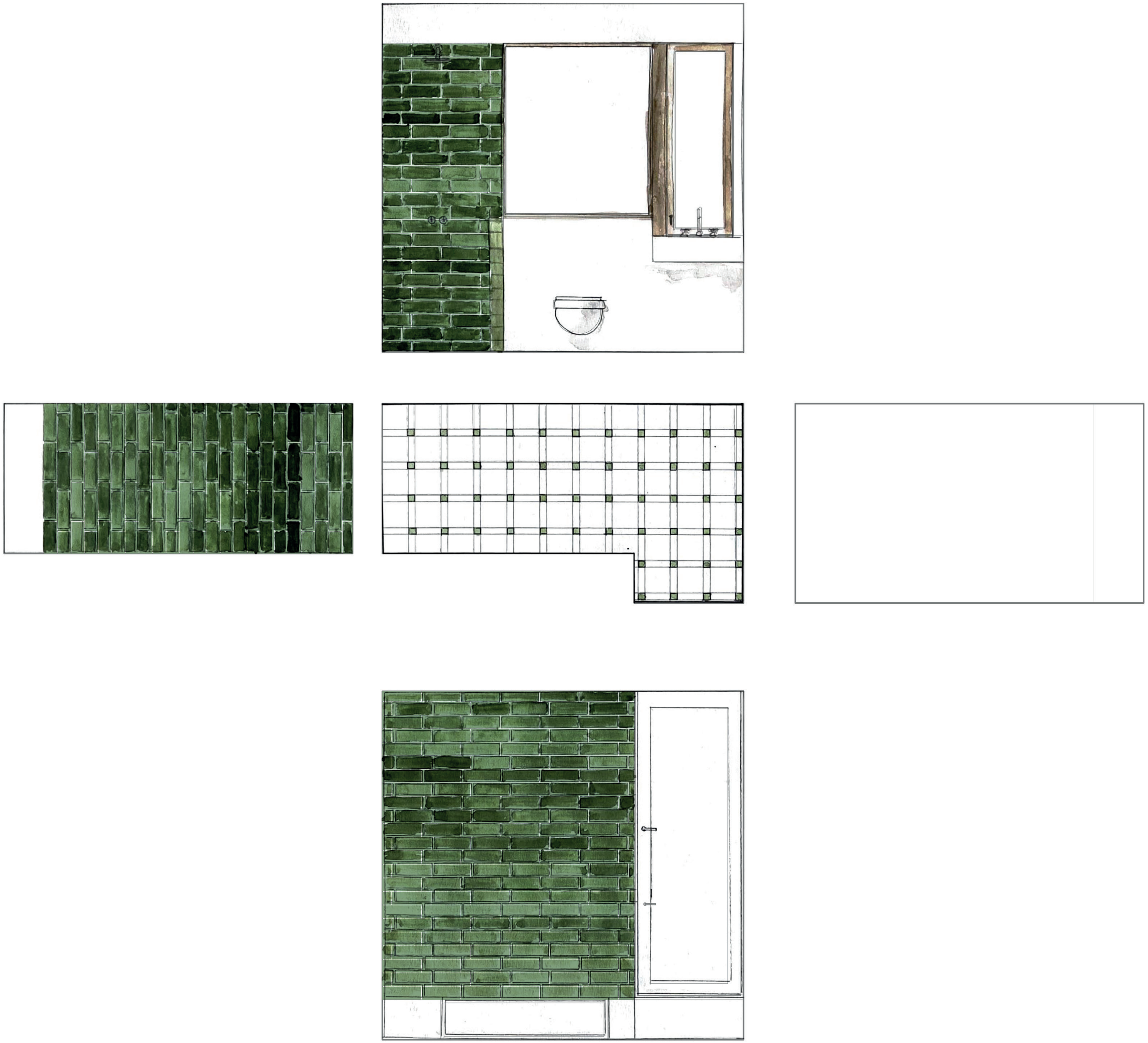
Detail roof edge



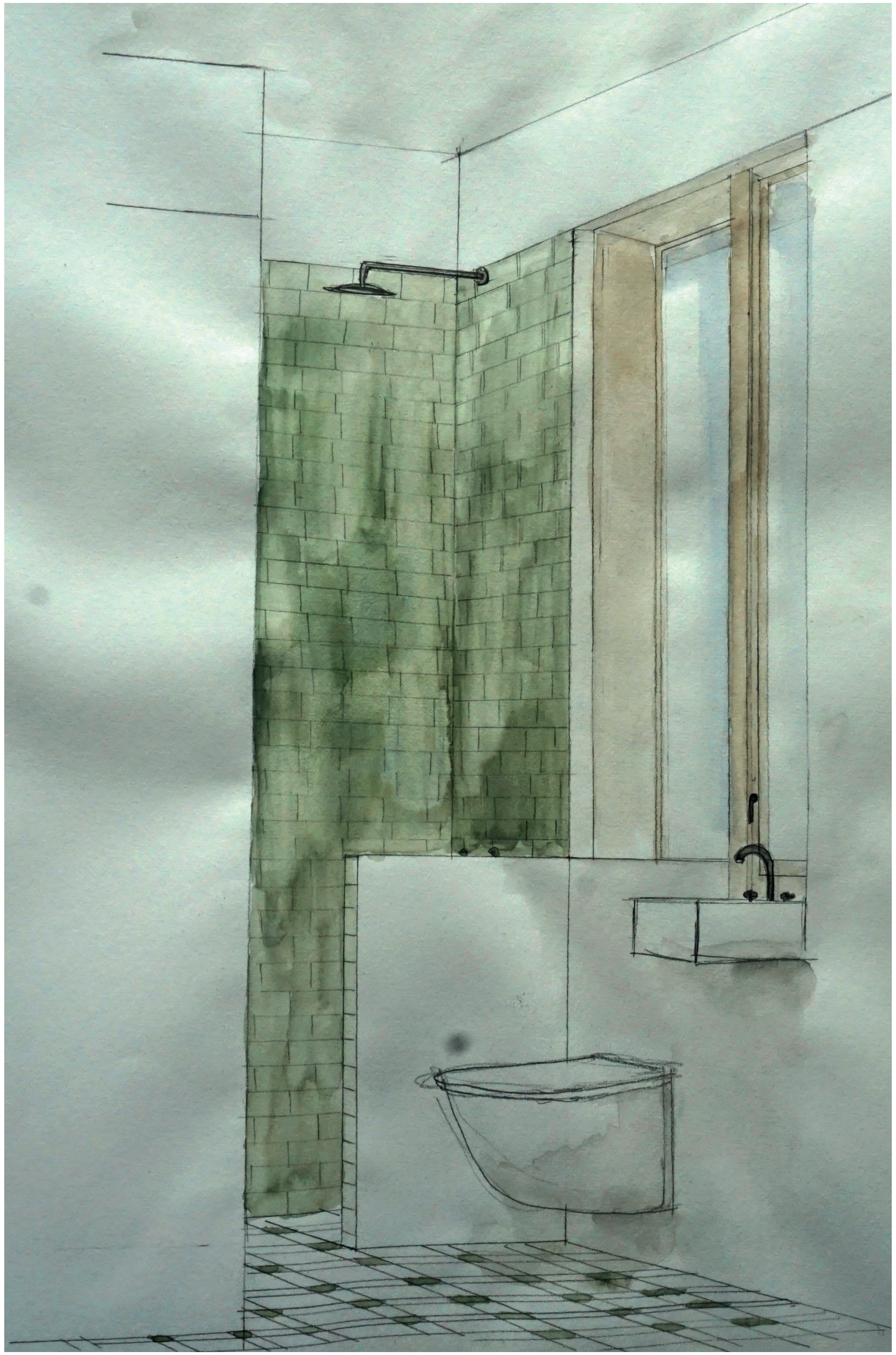
Horizontal section

Room
unfolded elevations

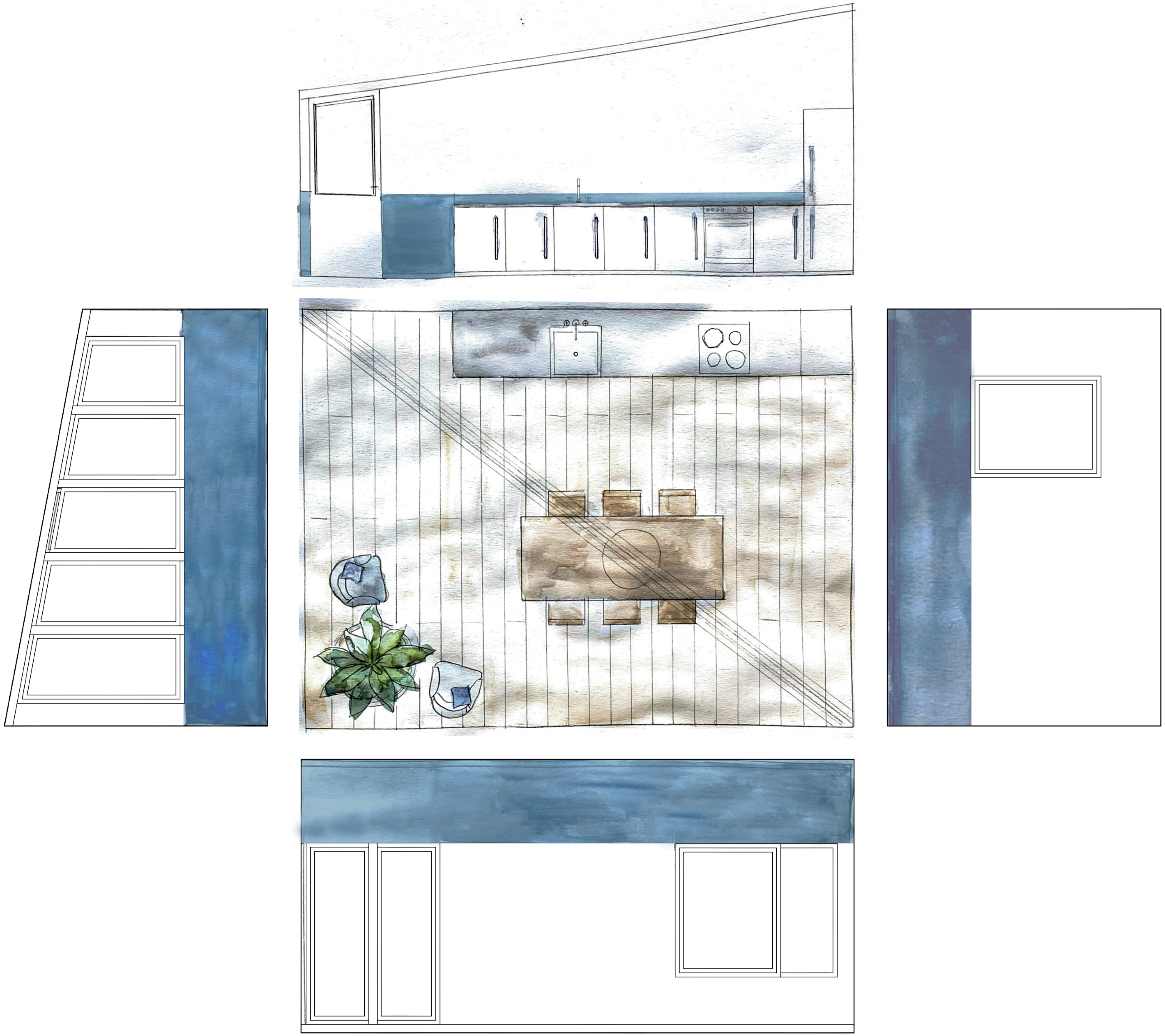
Room



Bathroom
unfolded elevations

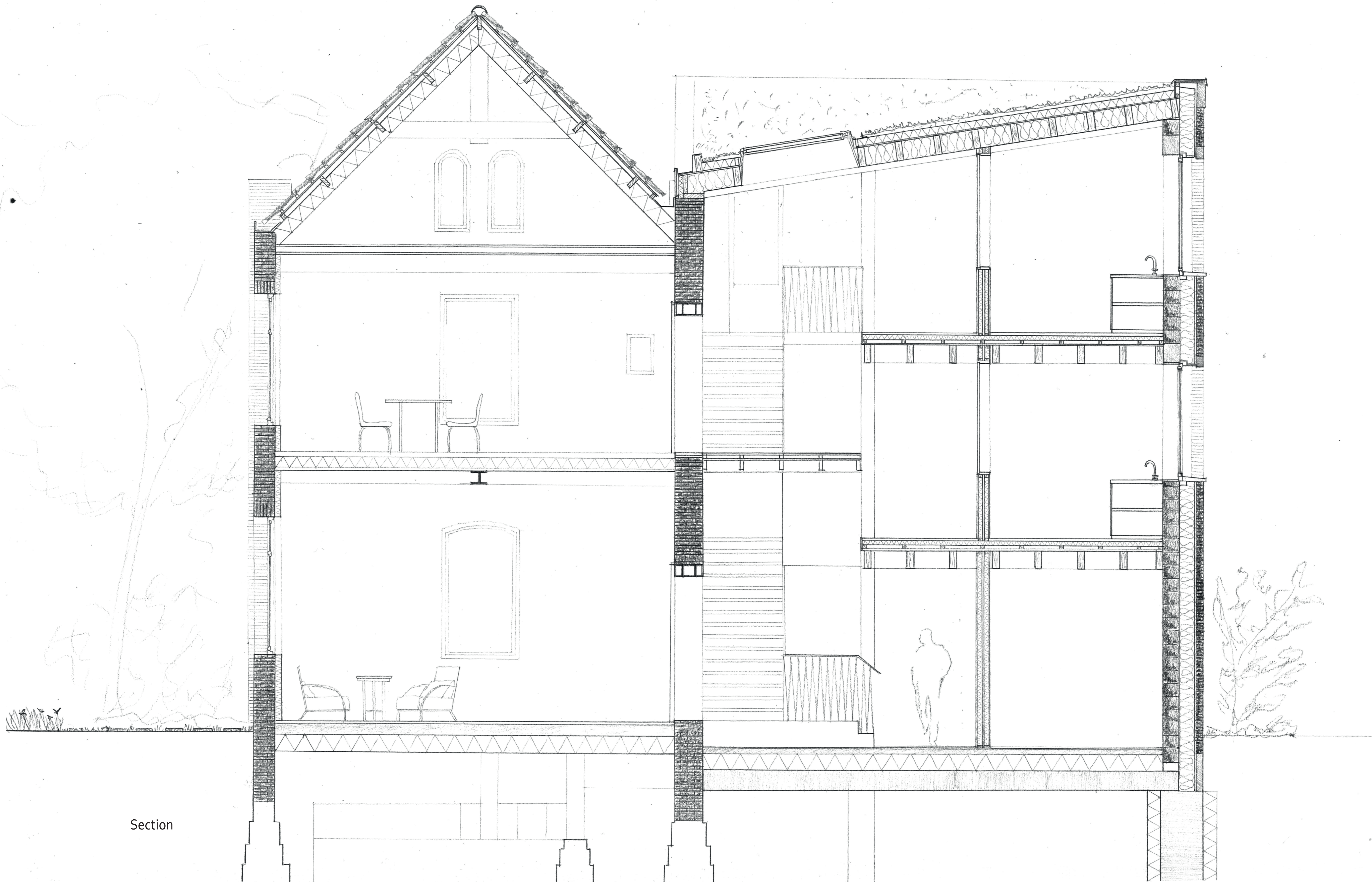


Bathroom

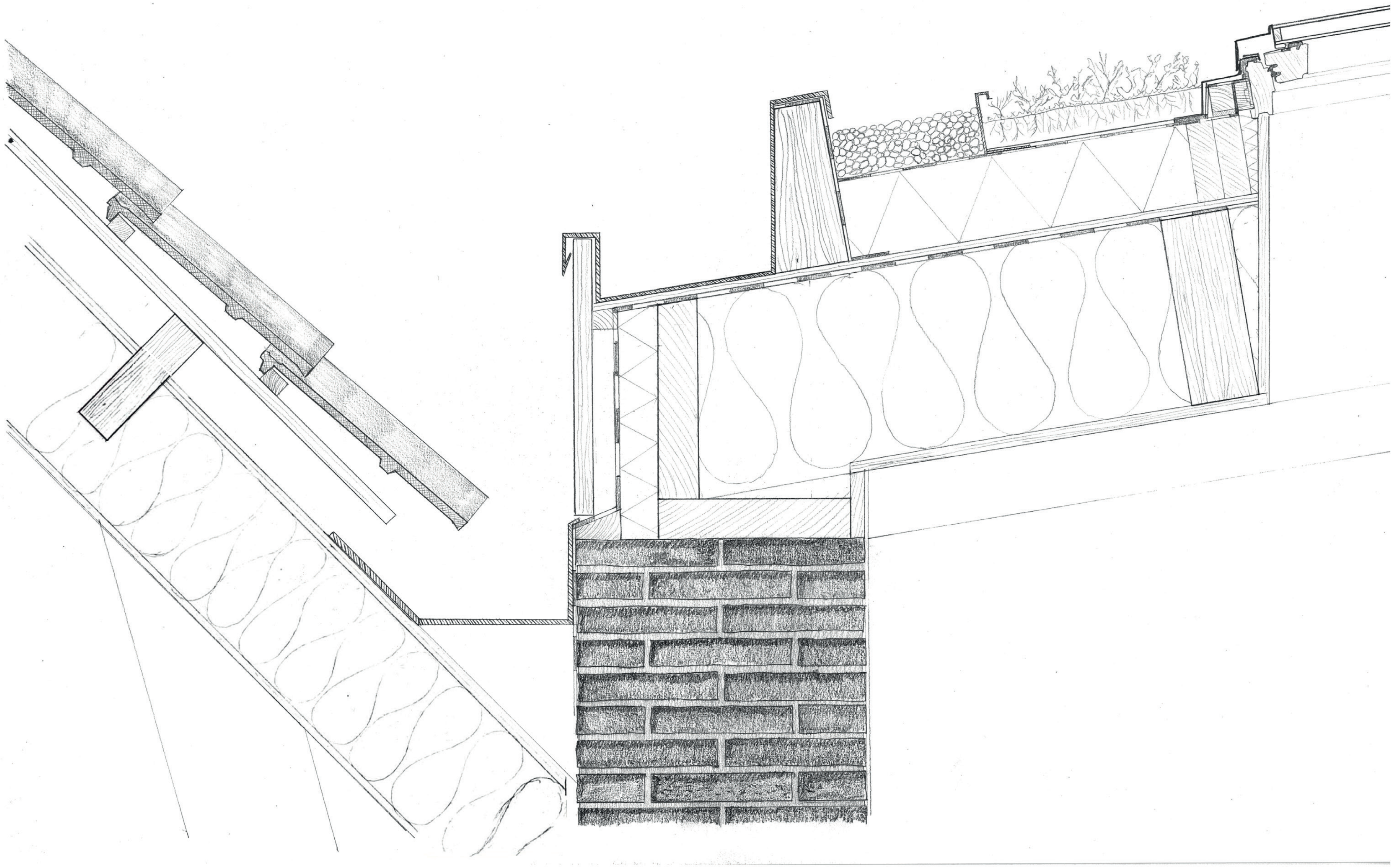


Kitchen
unfolded elevation

Kitchen



Section



Roof construction

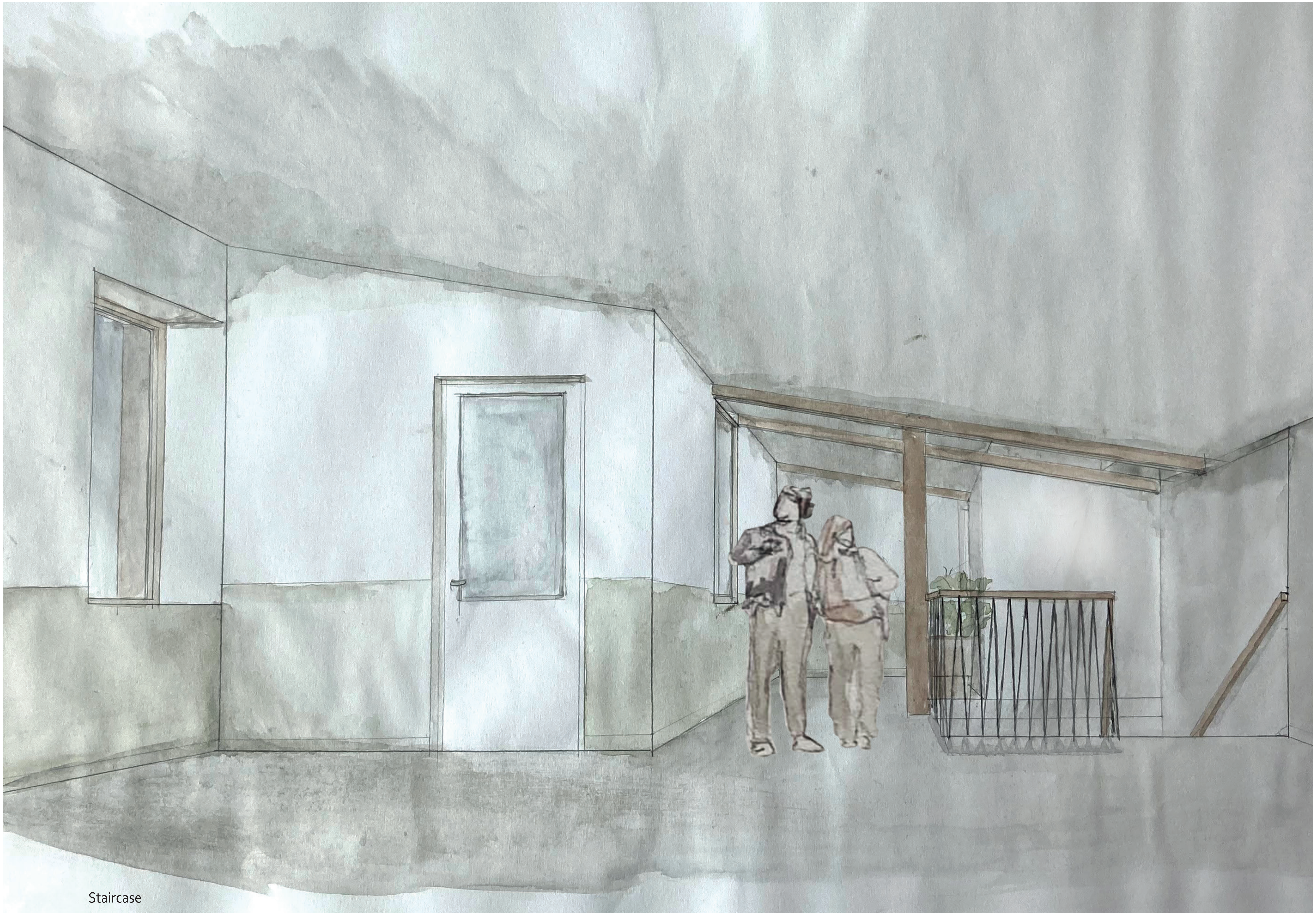
Substrate for sedum planting	30 mm
Drainage protection mat	10 mm
Calendered polymeric roofing	
Underlayment	20 mm
Thermal insulation	18 mm
Vapour barier	120 mm
Roof beams	100 x 280 mm
Thermal insulation	280 mm
Timber sheathing	18 mm

Wall construction

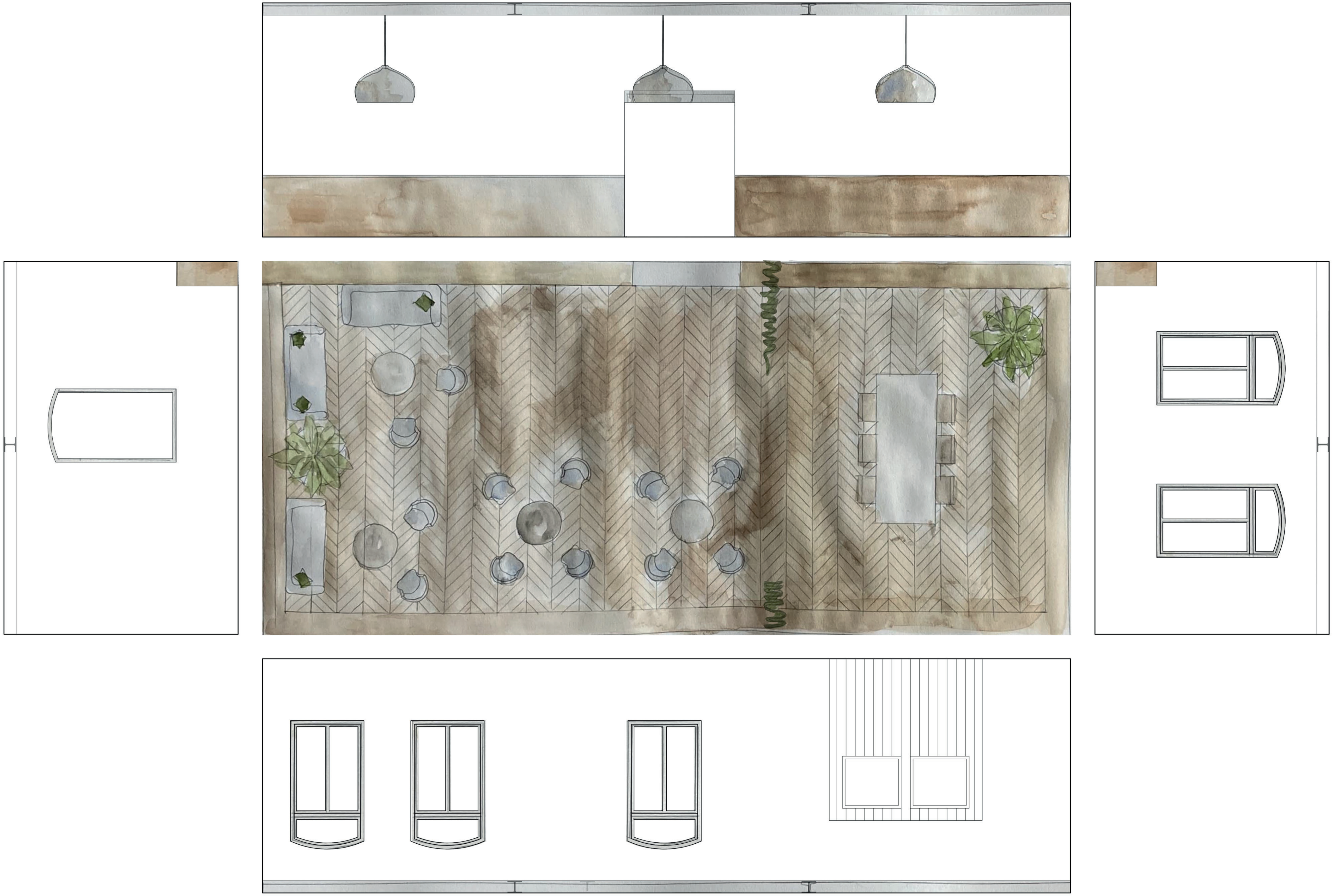
Brick wall	430 mm

Detail old and new

Staircase
unfolded elevation

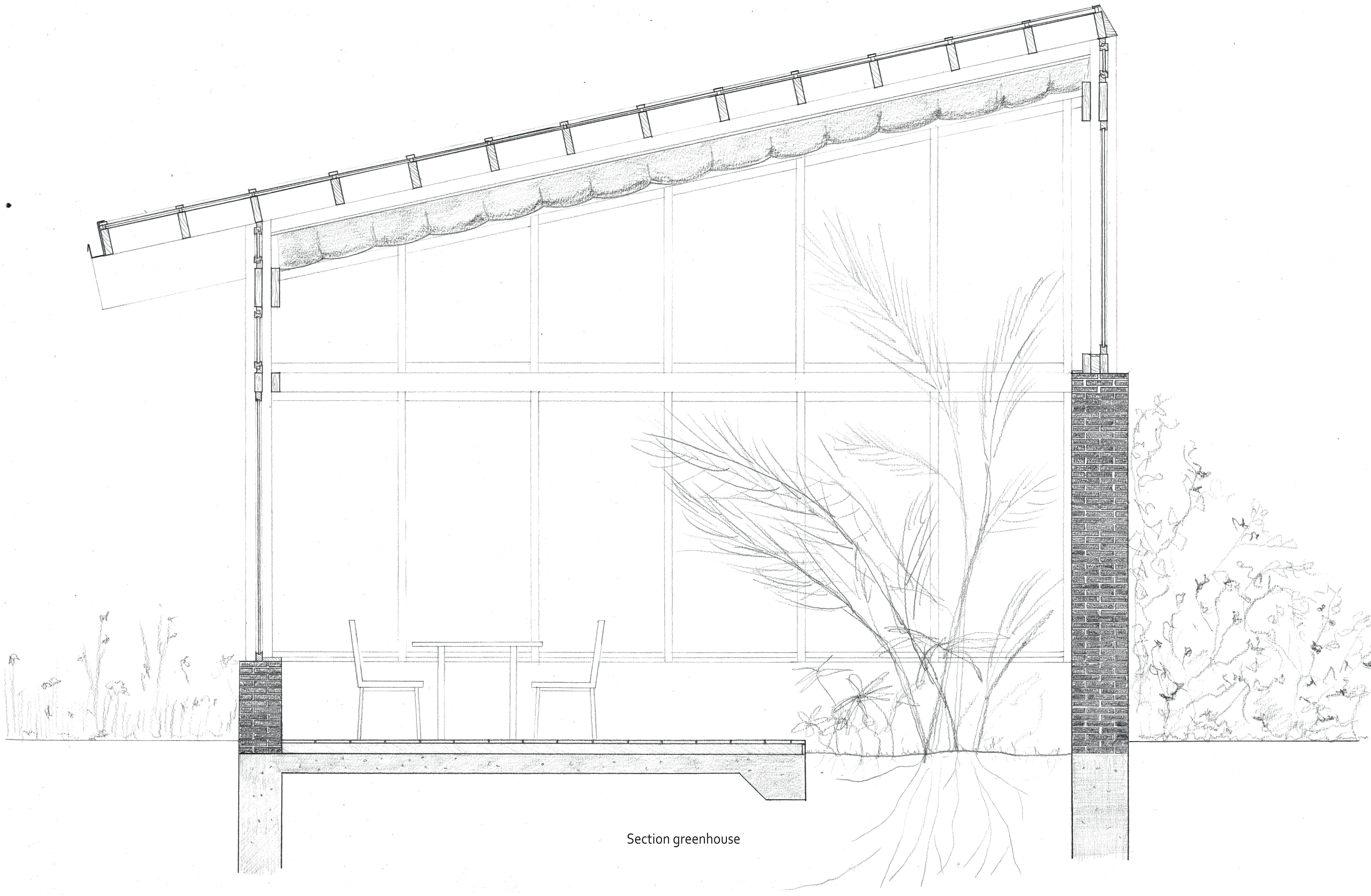


Staircase



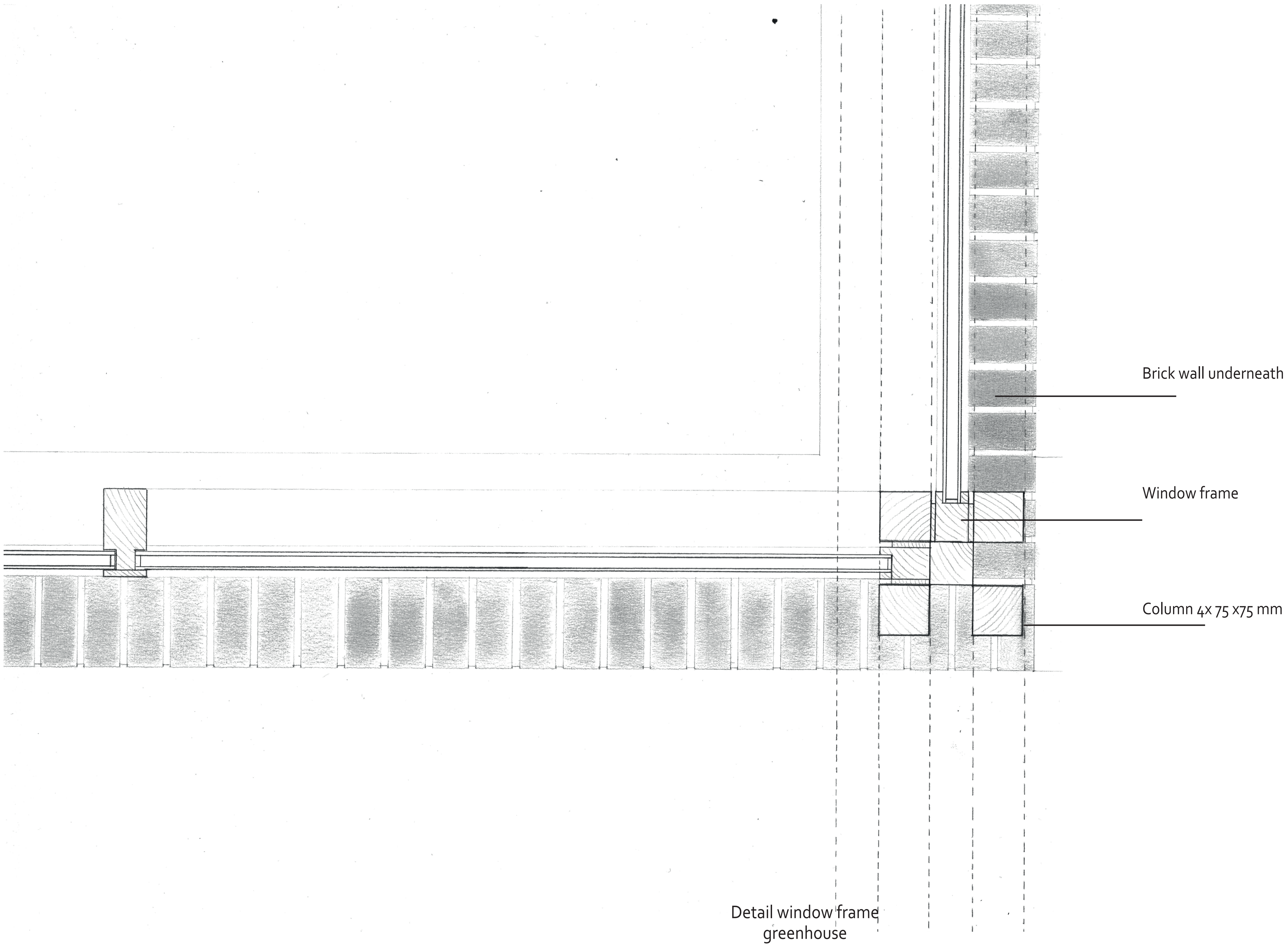
Lounge (common living room)
unfolded elevations

Lounge (common living room)



Section greenhouse

Greenhouse



Detail window frame
greenhouse

Conclusion