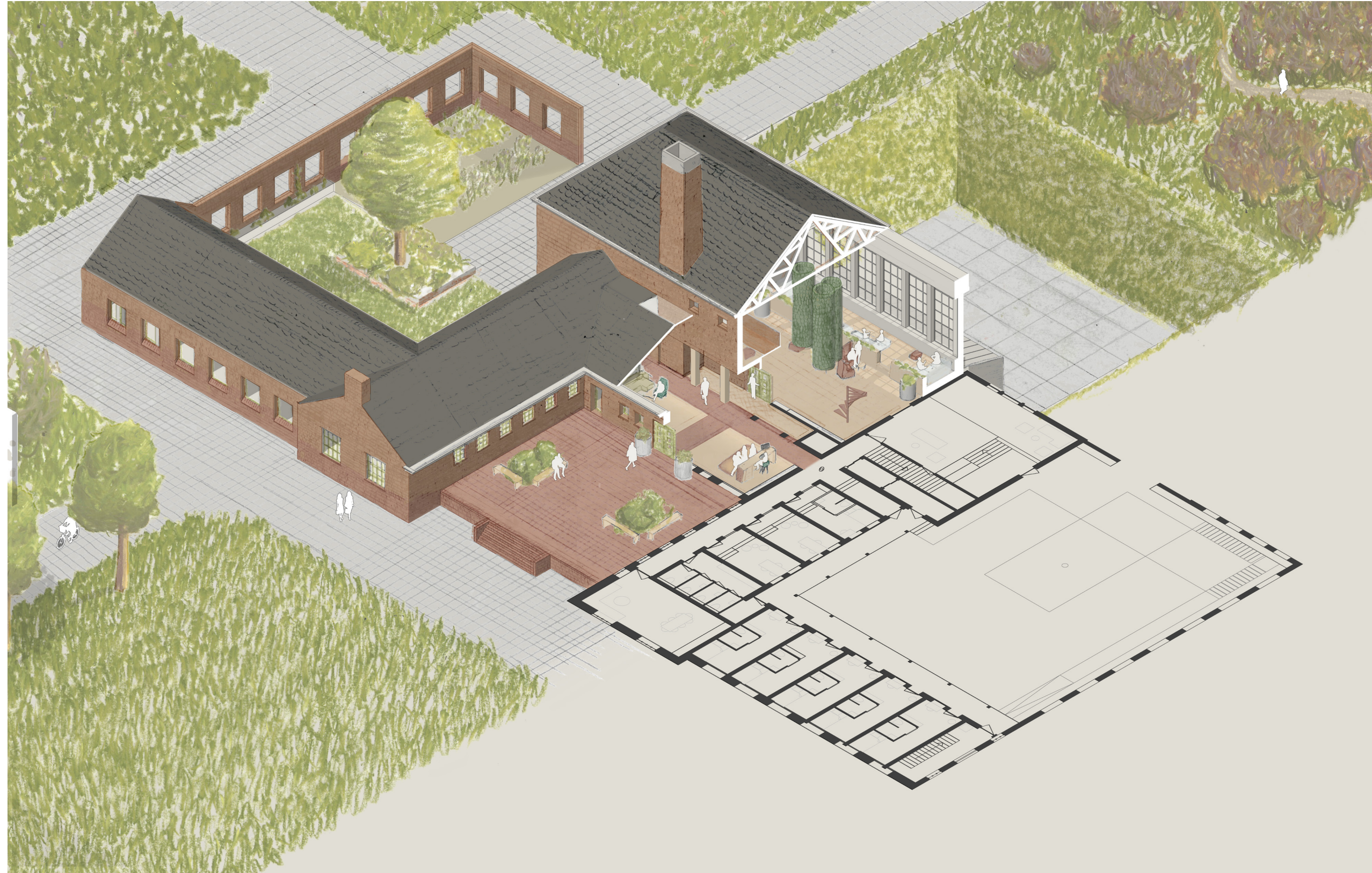




Re-Centre

A multi-sensory approach to architectural design

A4 Presentation
June 2026

Jasmijn van Breemen

Lidy Meijers & Thijs Bennebroek

Adaptive Reuse of Heritage Graduation Studio
Military heritage: Cold War



Contents

01.	Problem statement	3
02.	De Kolonel Palmkazerne	4
03.	Questions & method	5
04.	Location	6
05.	Programme	7
06.	Tranquillity	8
07.	Design principles	9
08.	A multi-sensory walk through the design	10

Problem statement

Acceleration of....

Architectural discipline

Military architecture

Intangible elements?

Pallasmaa, de Wit & Wagenaar

Military environment to healing environment

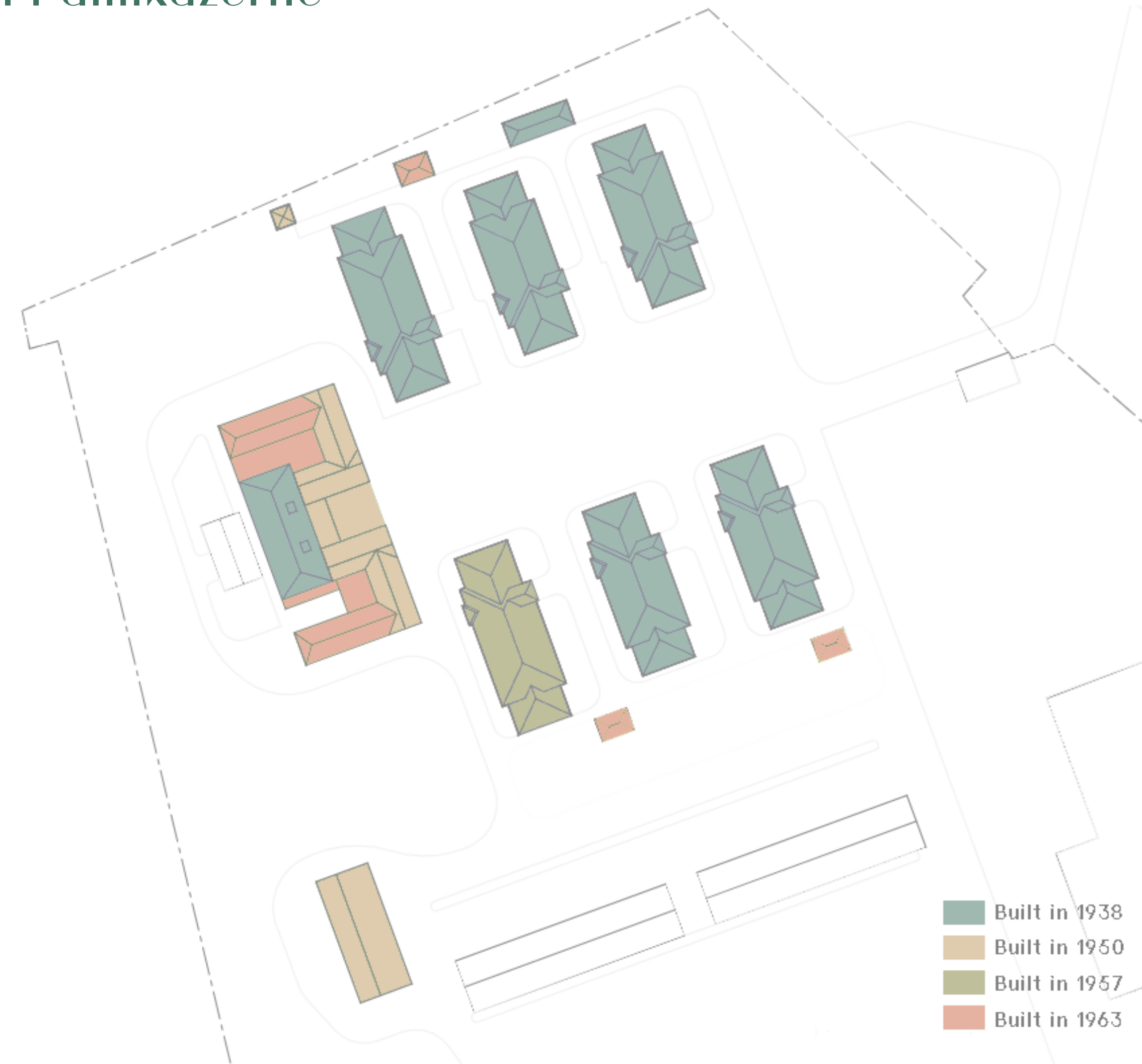


De Kolonel Palmkazerne





Time layers of the Kolonel Palmkazerne



Questions & Method

How to implement the multi-sensory experience of tranquillity, as part of a programme for a rehab centre for drug addicts, in the phenomenological experience of the Kolonel Palmkazerne by transforming architectural elements?

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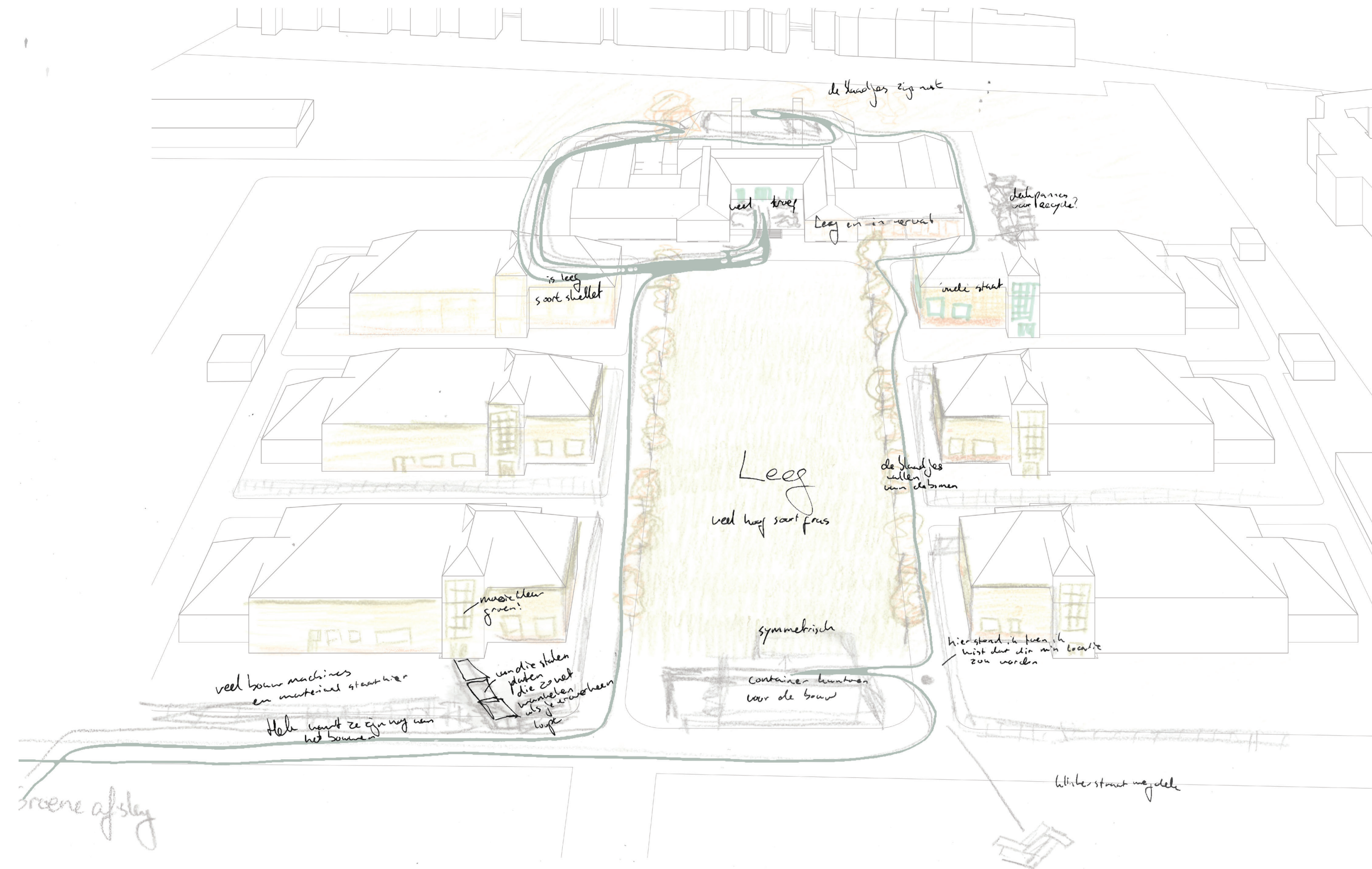
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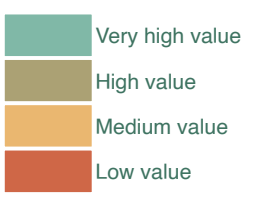
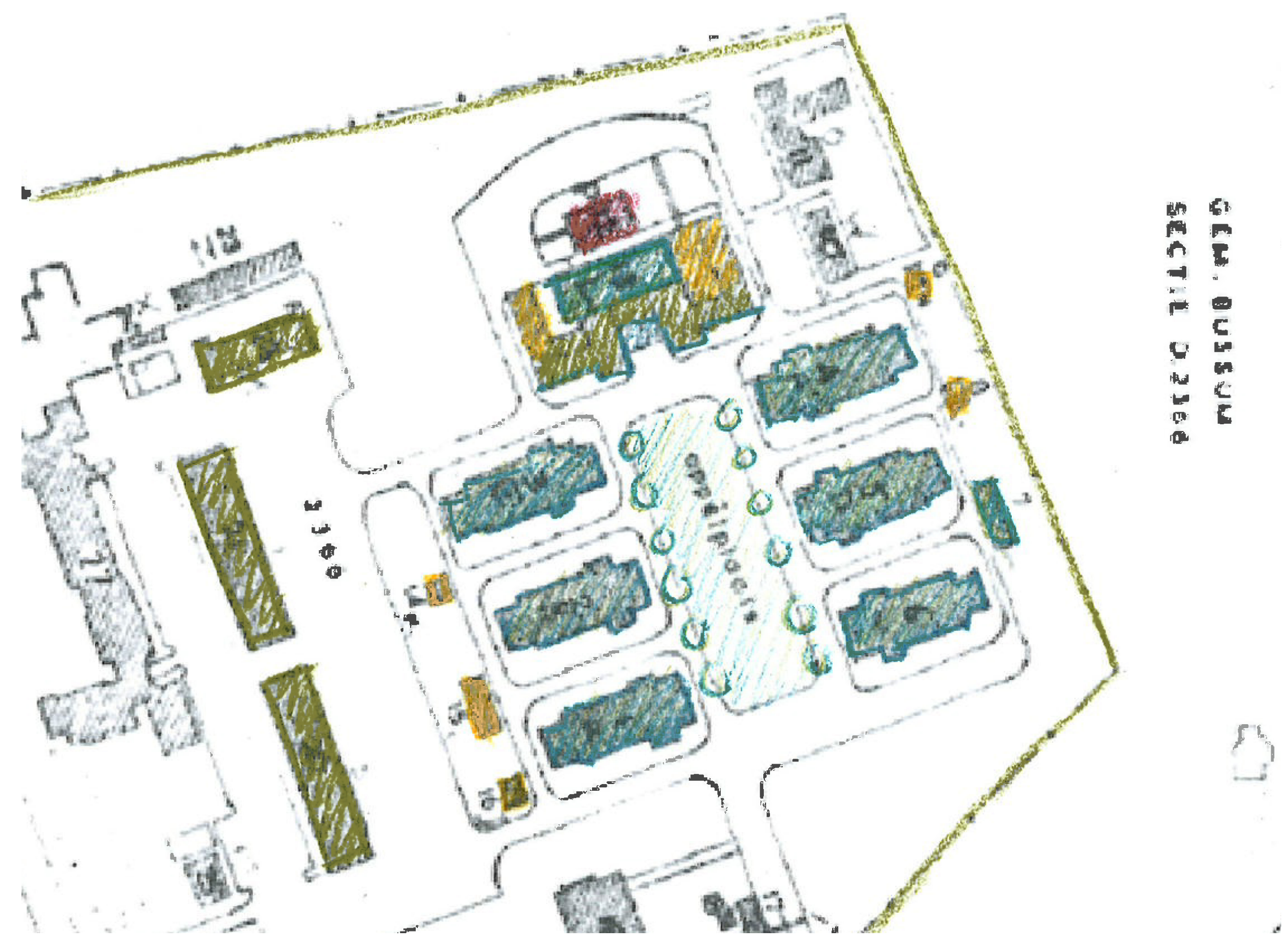
Location



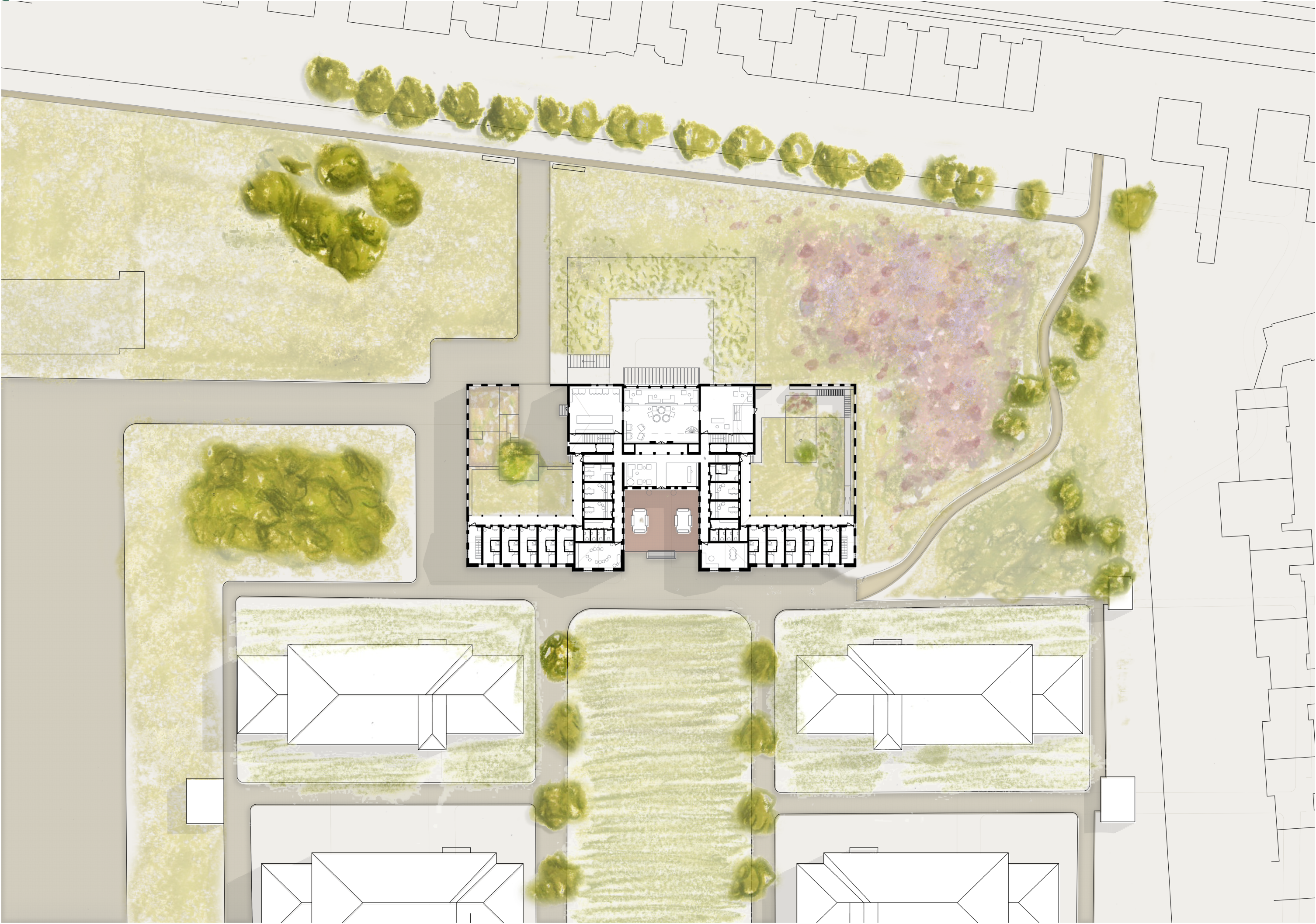
Analysis Kolonel Palmkazerne



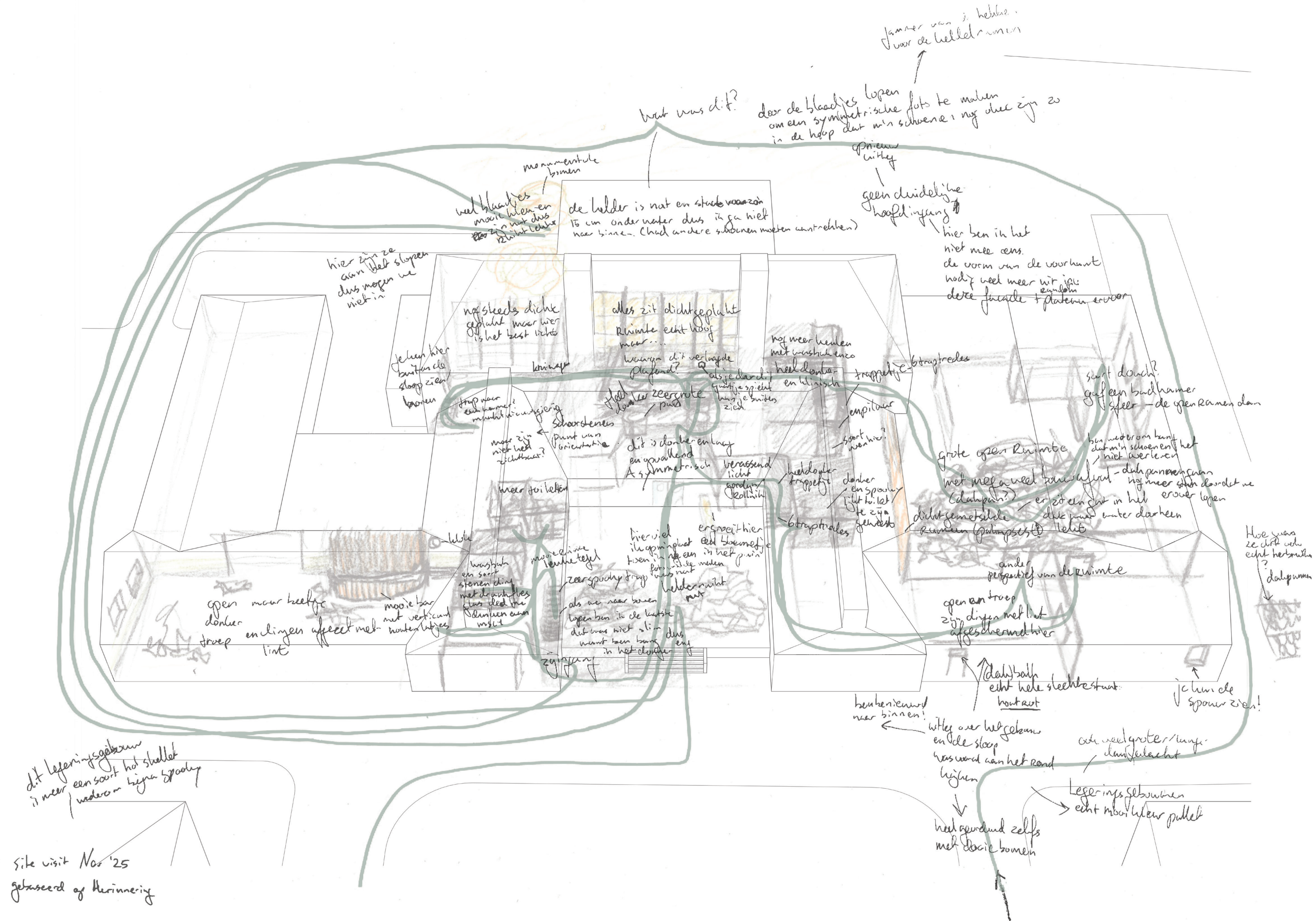
Value assessment Kolonel Palmkazerne



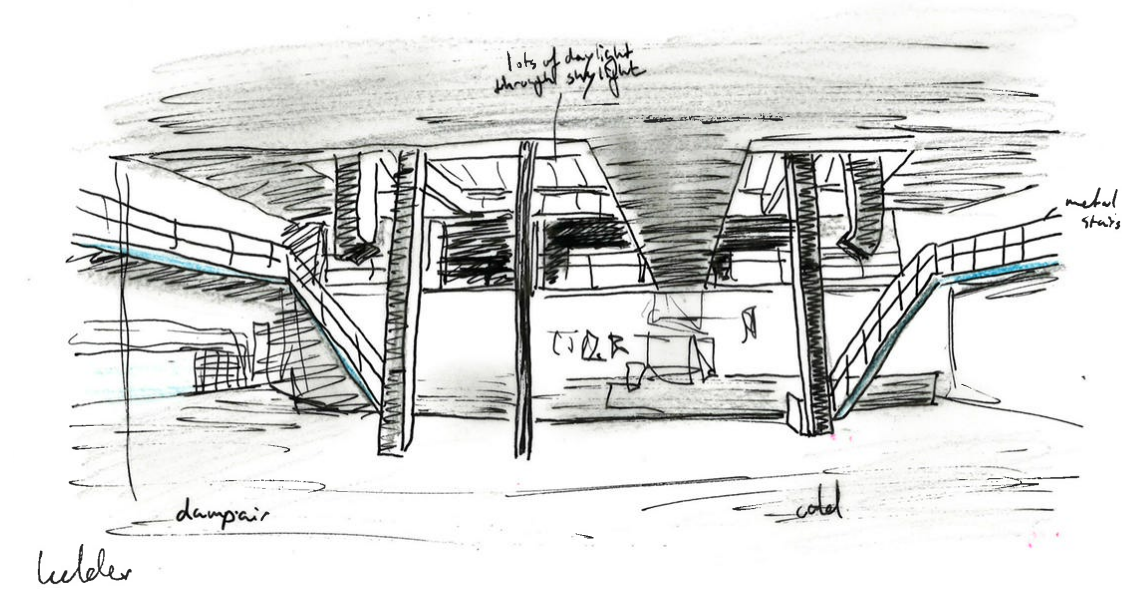
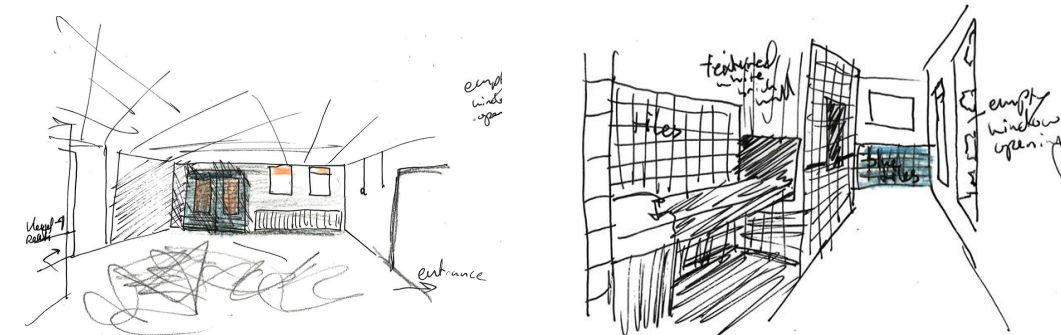
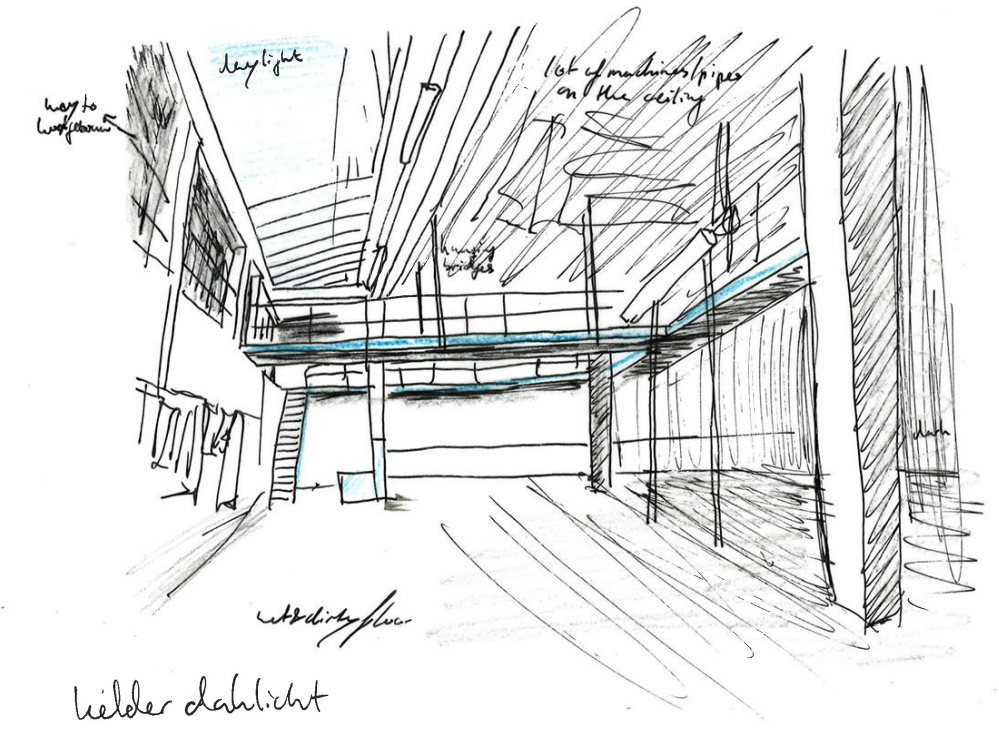
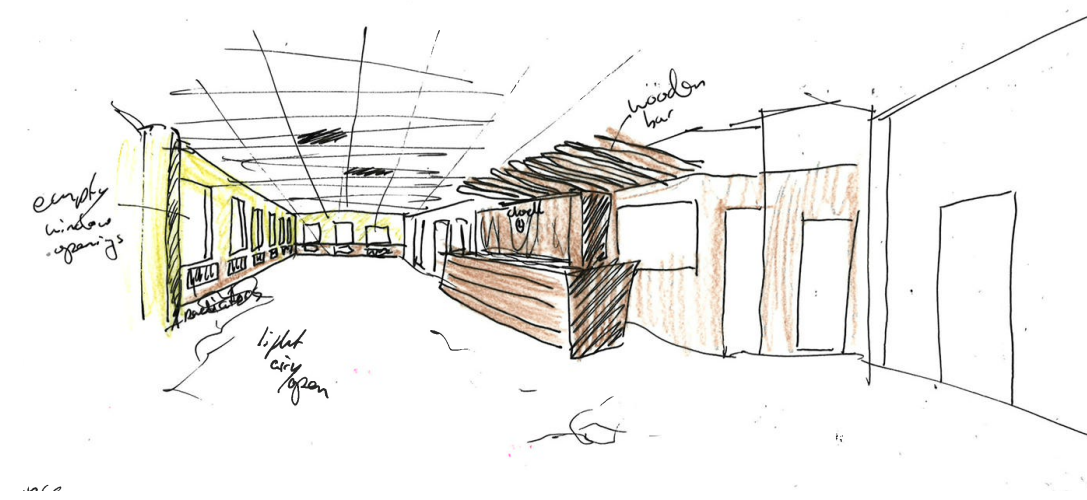
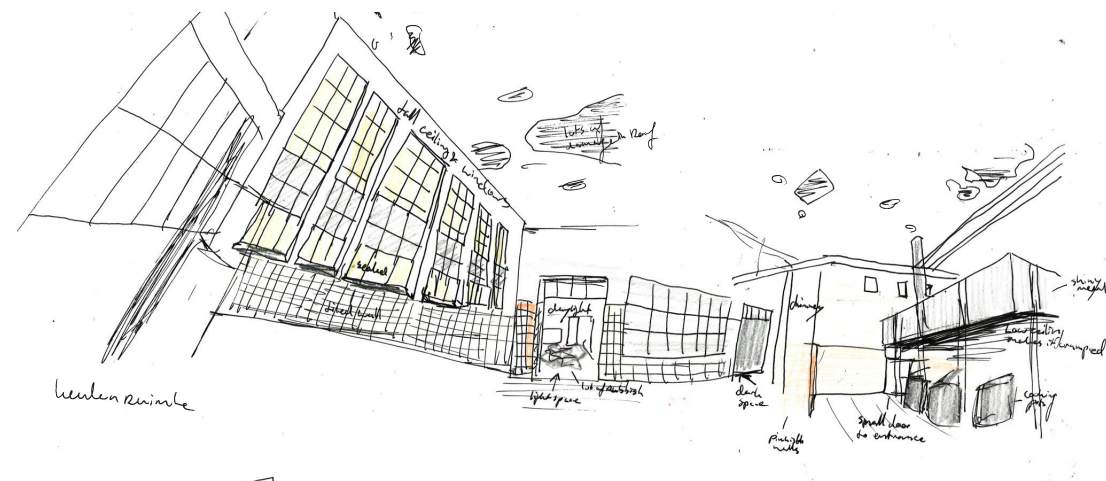
Vision for Context



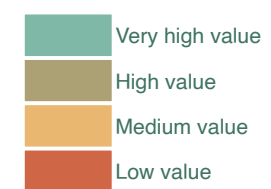
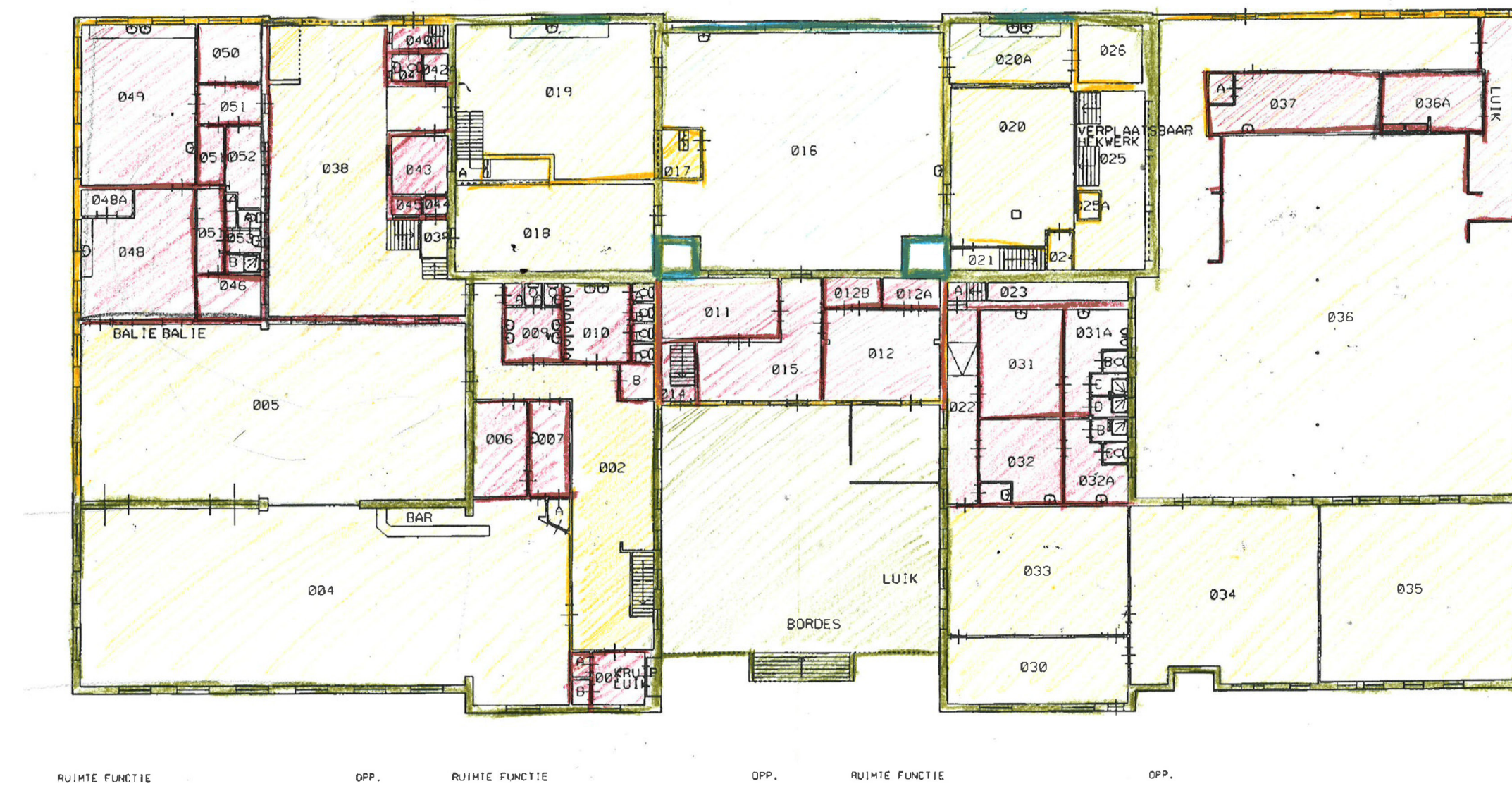
Analysis Keukengebouw



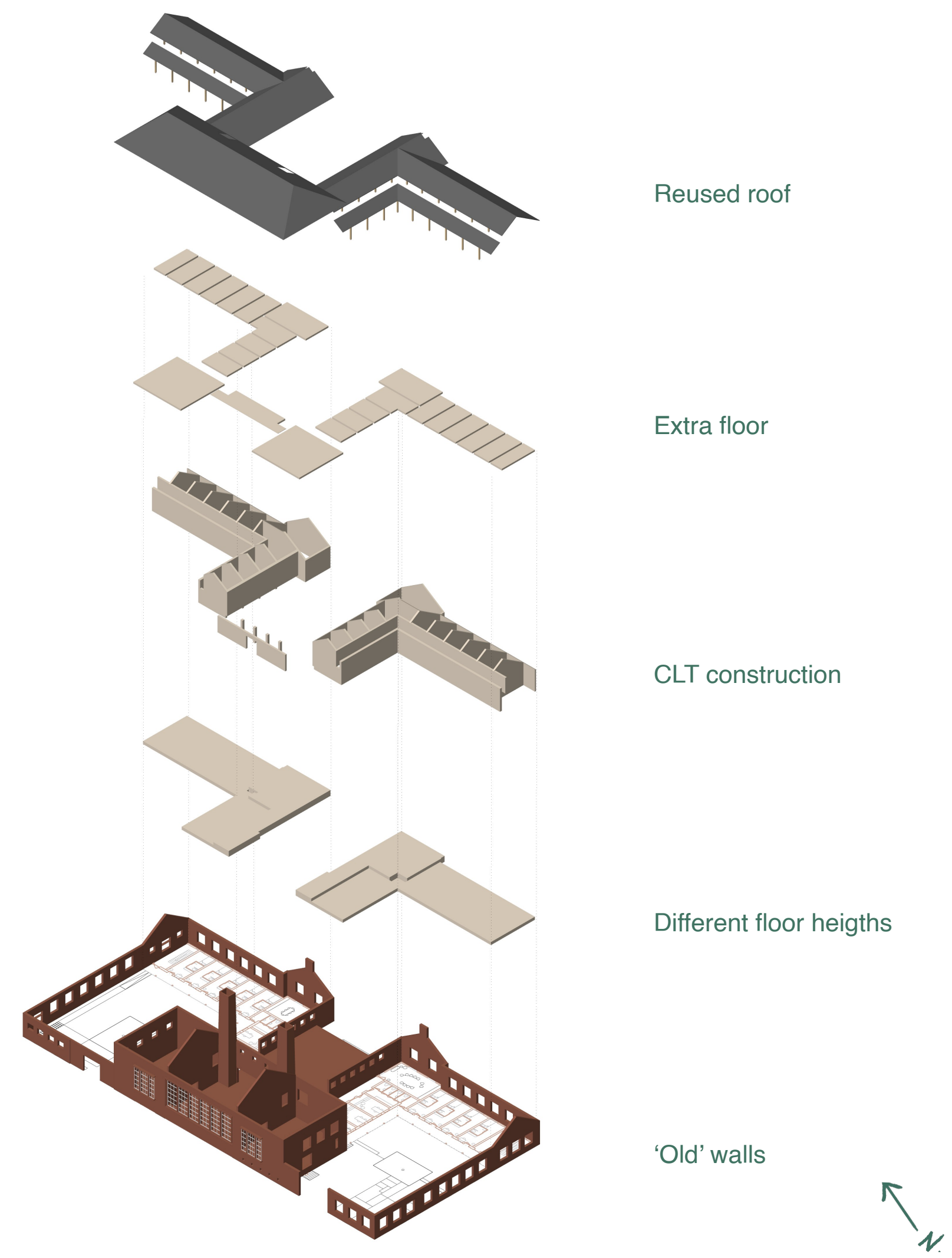
Sketches Keukengebouw



Value assessment Keukengebouw

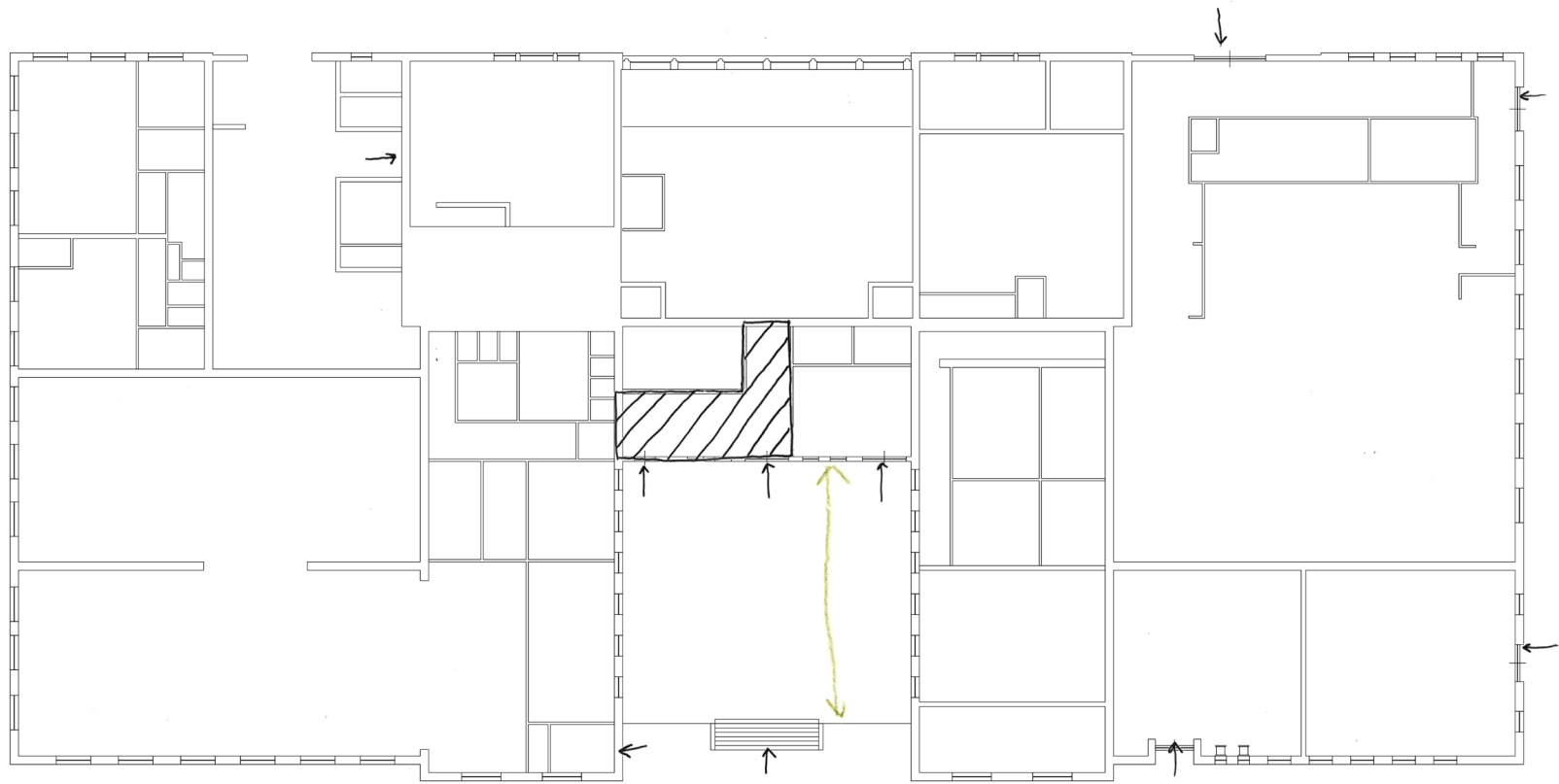


Old vs. new structure

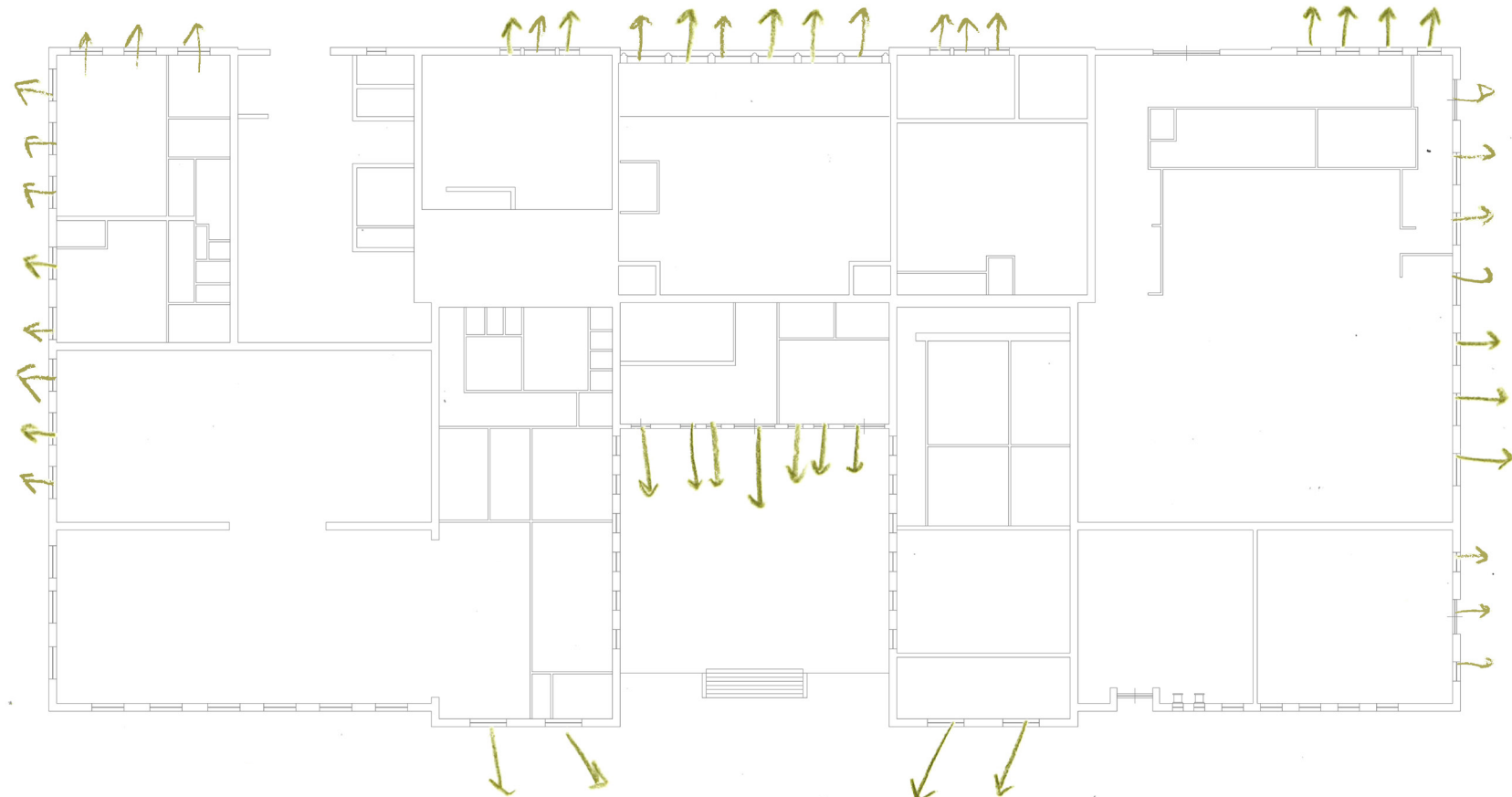


Programme

Healing environment in Keukengebouw



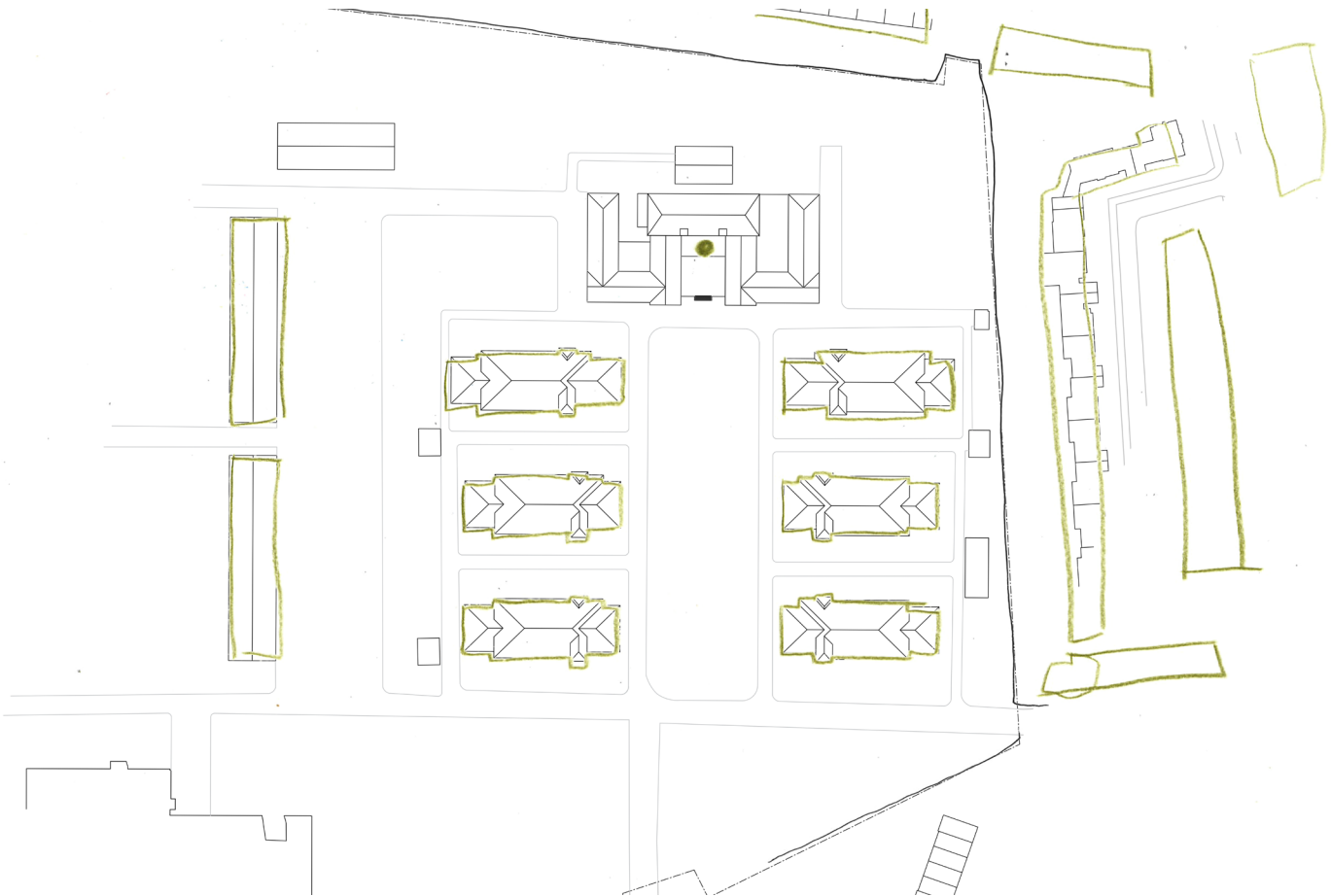
Clear entrance



View to nature

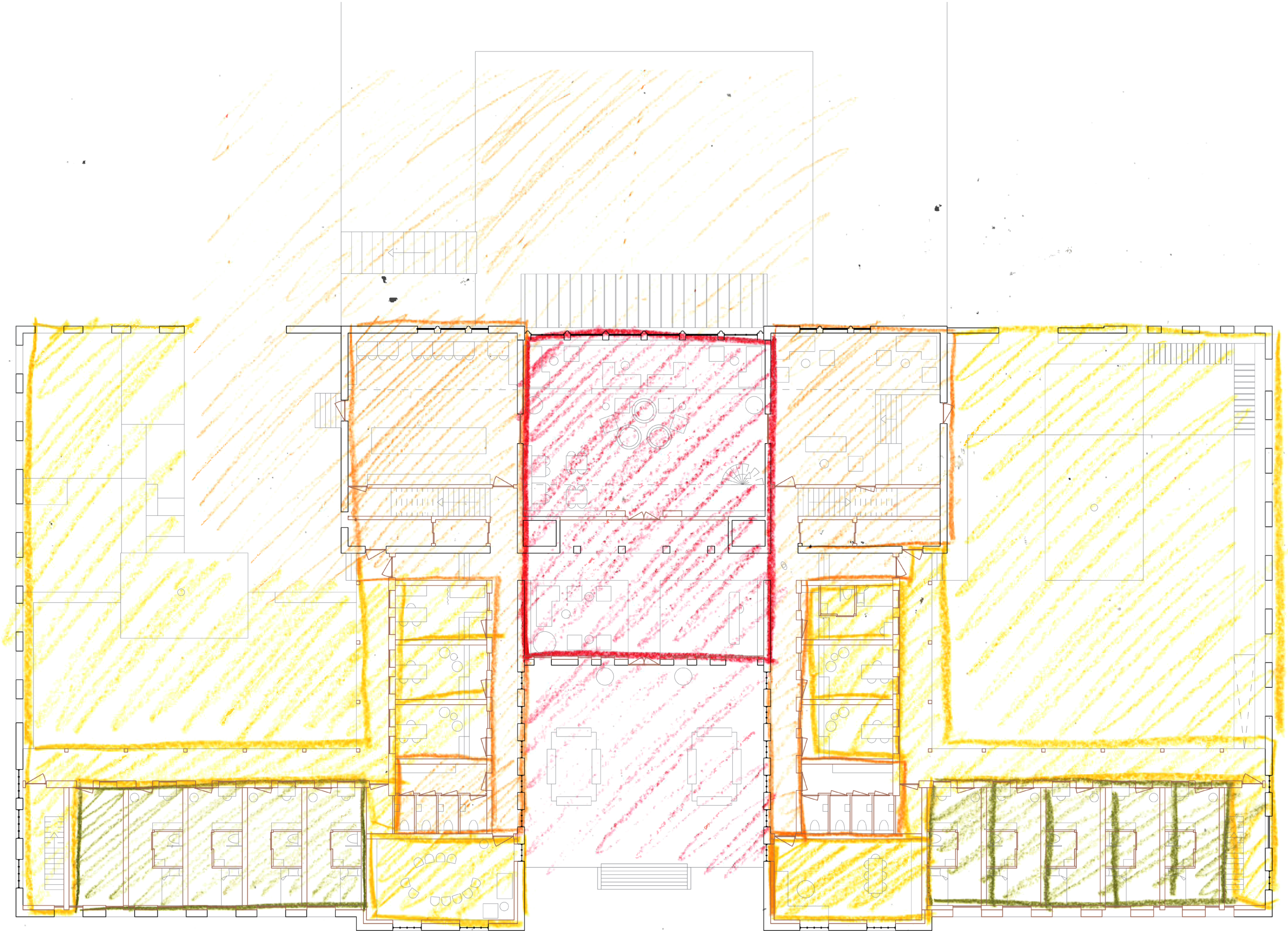


Materialisation



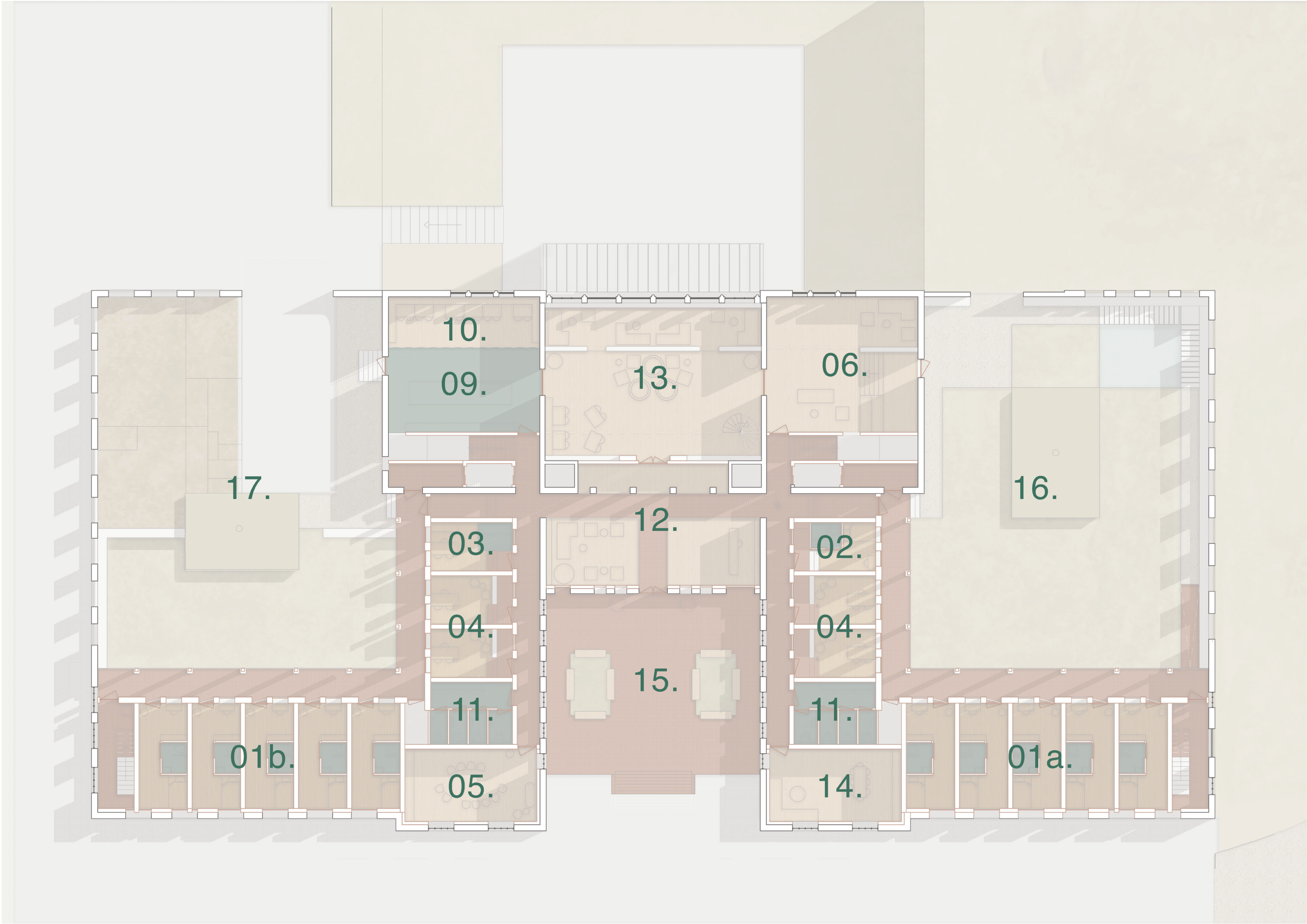
Normalisation

Public to private



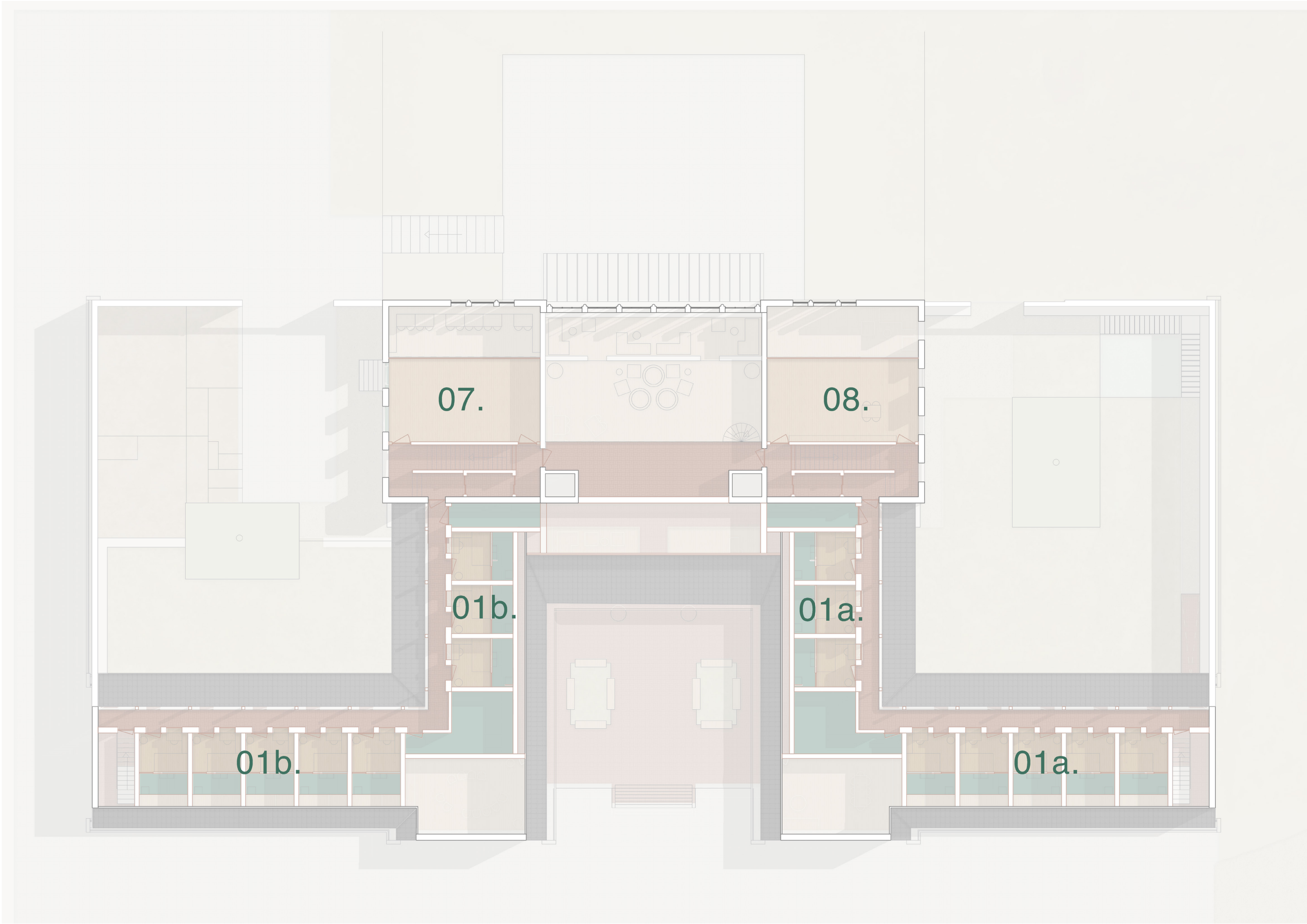
Ground Floor

- 01a. Sleeping quarters female patients
- 01b. Sleeping quarters male patients
- 02. Sleeping quarters staff
- 03. Doctor
- 04. Therapy rooms
- 05. Group therapy rooms
- 06. Sitting room
- 07. Gym
- 08. Creative space
- 09. Kitchen
- 10. Dining room
- 11. Sanitary
- 12. Welcoming area
- 13. Family room
- 14. Staff Canteen
- 15. Welcome garden
- 16. Reflection garden
- 17. Activity garden
- 18. Group therapy garden



1st Floor

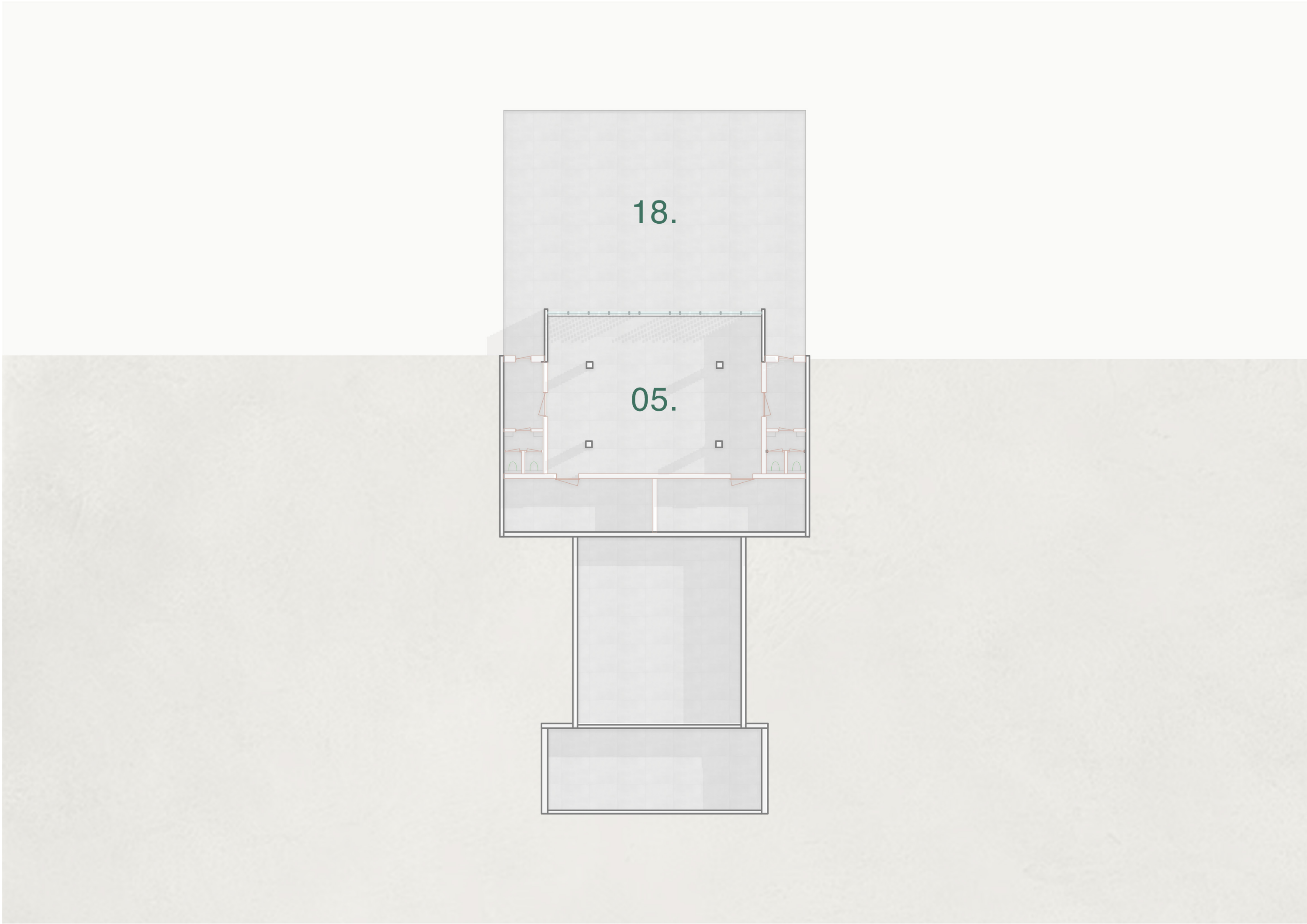
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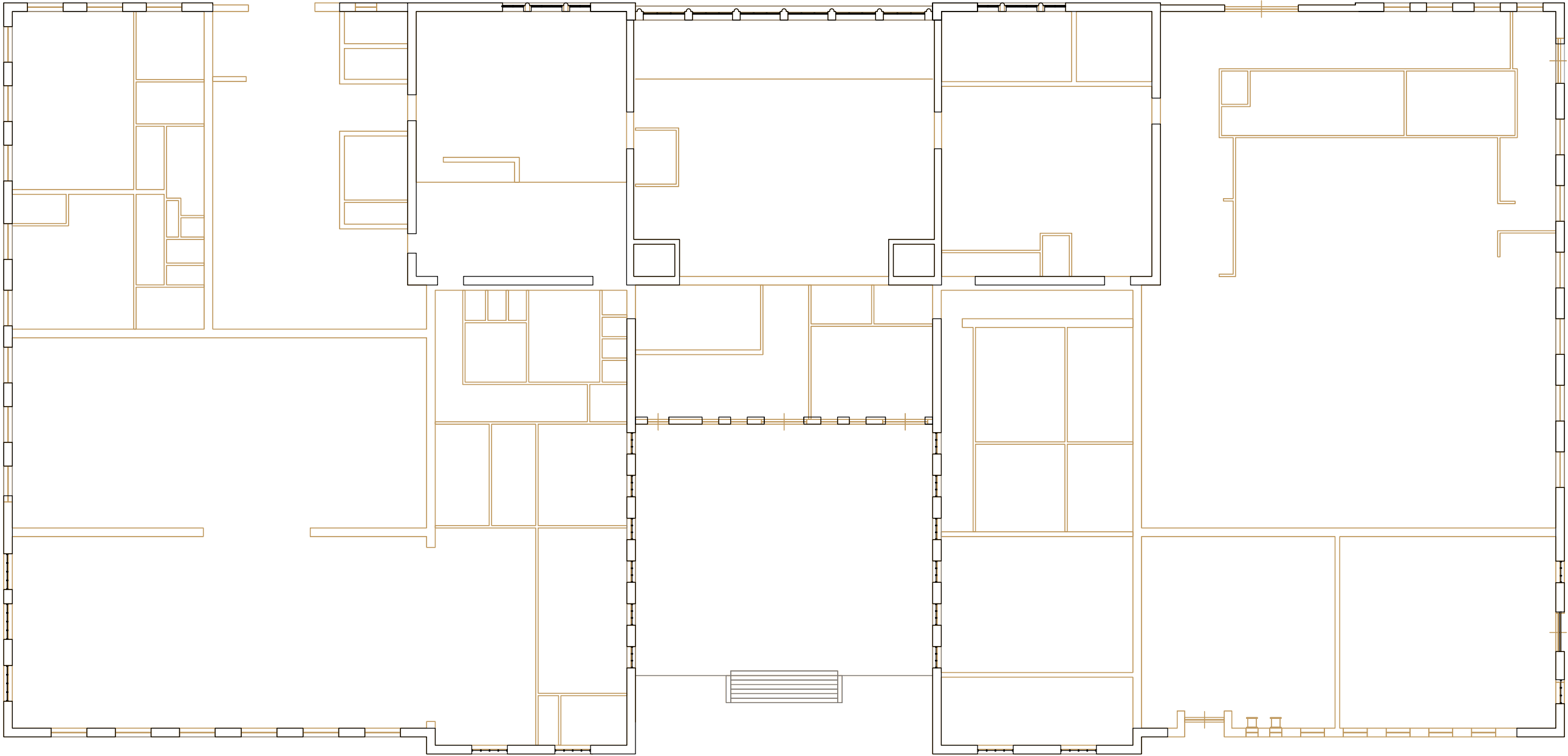
Basement

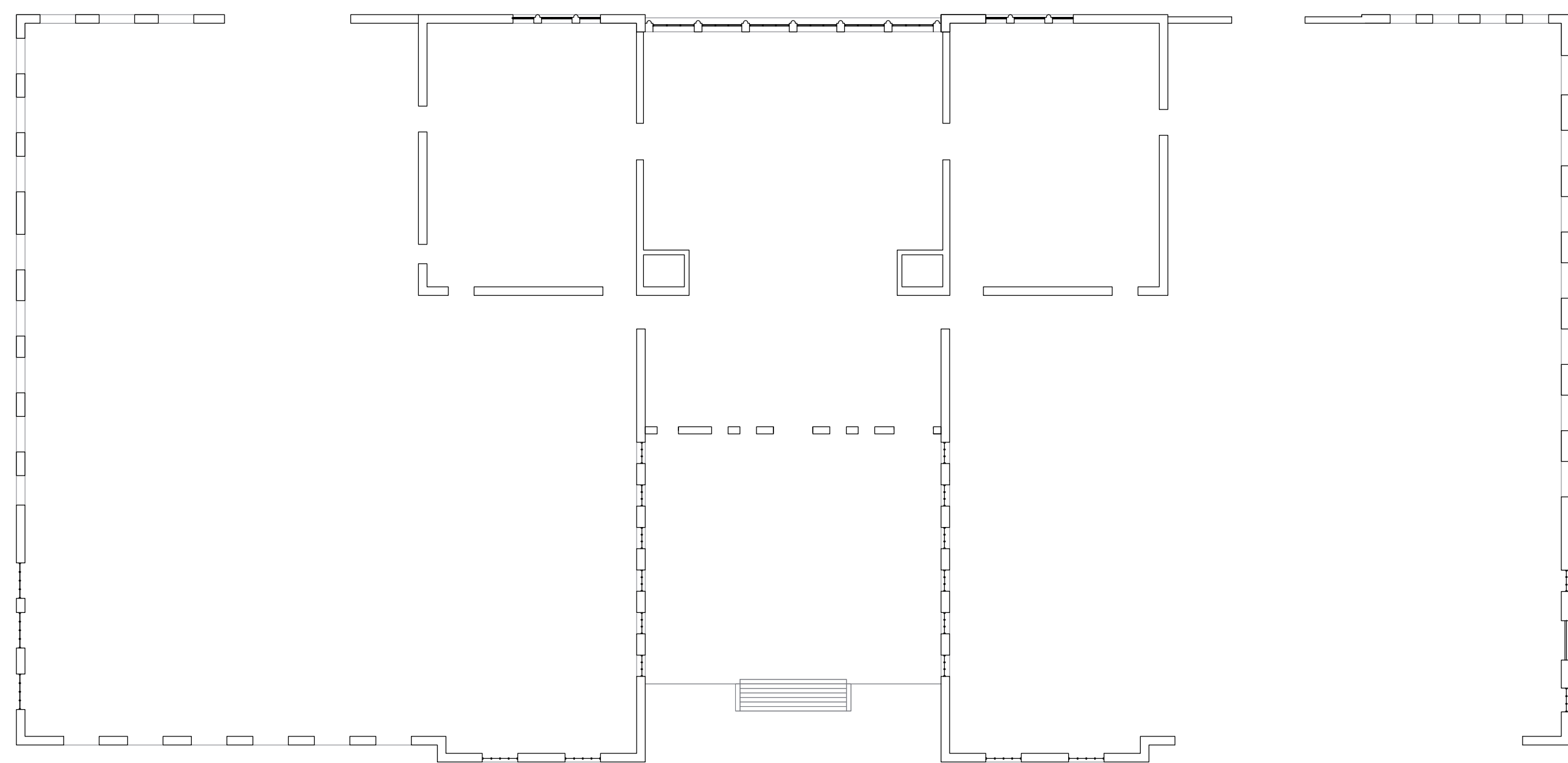
- 01a. Sleeping quarters female patients
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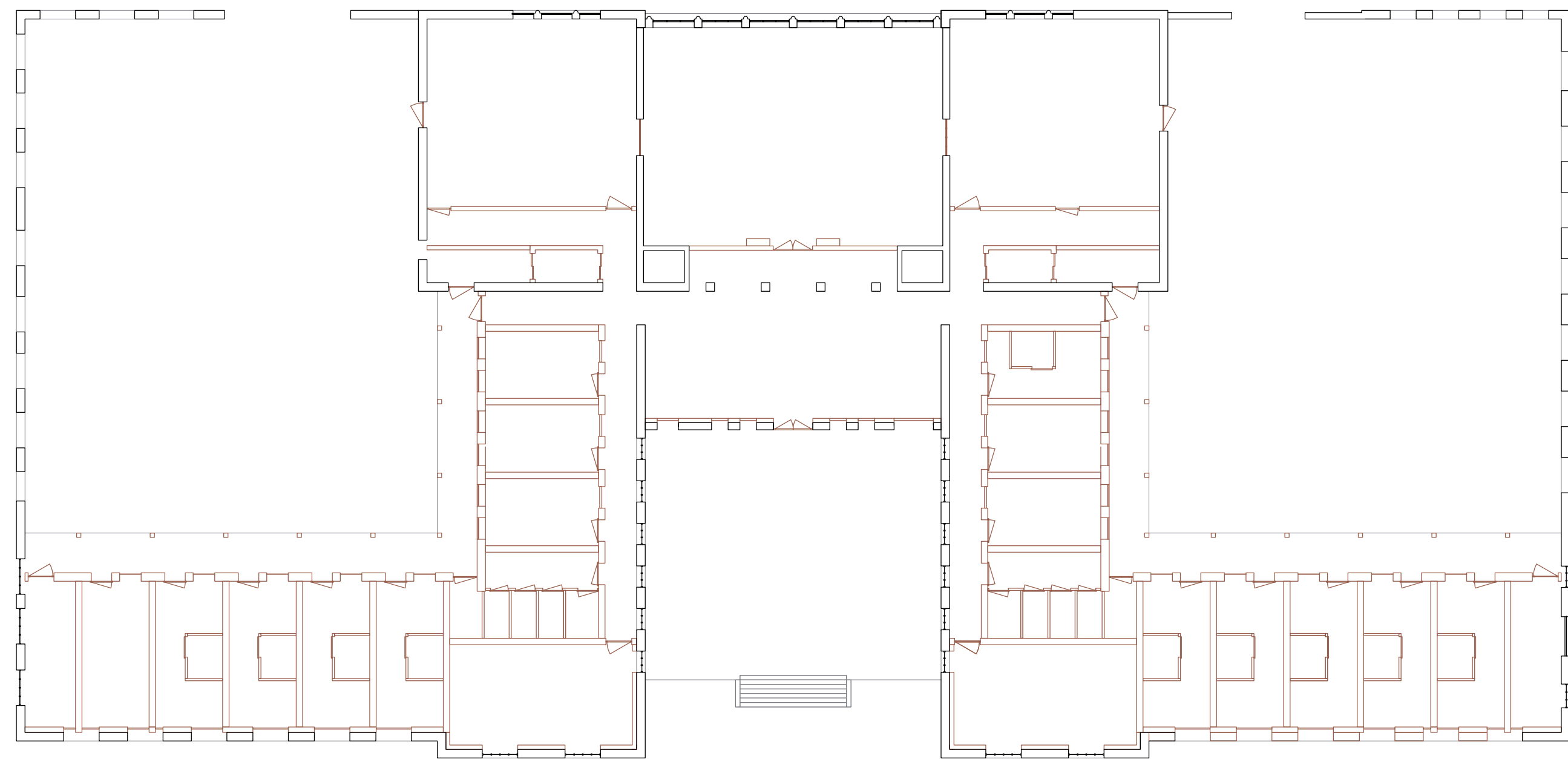
- 15. Welcome garden
- 16. Reflection garden
- 17. Activity garden
- 18. Group therapy garden**



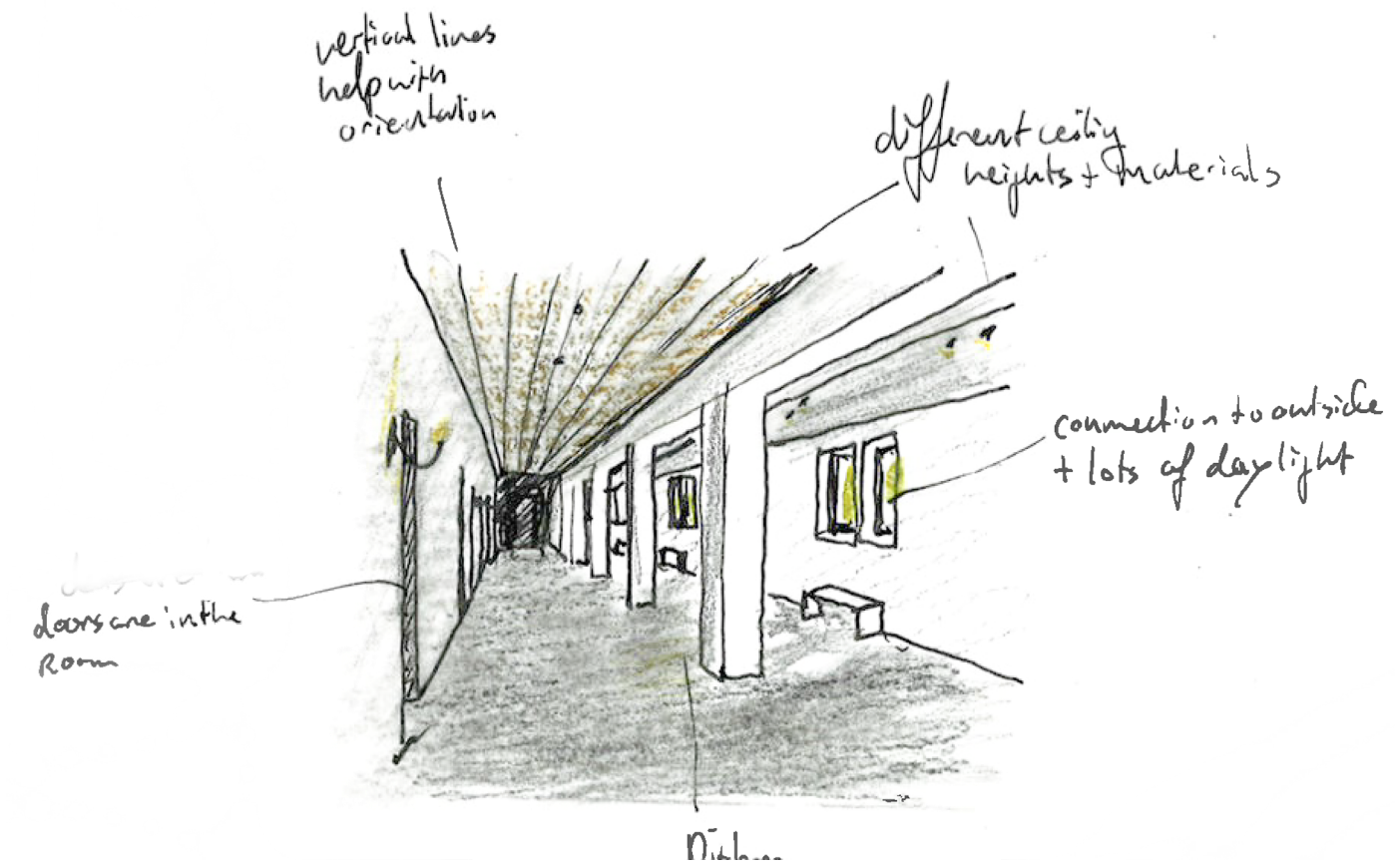
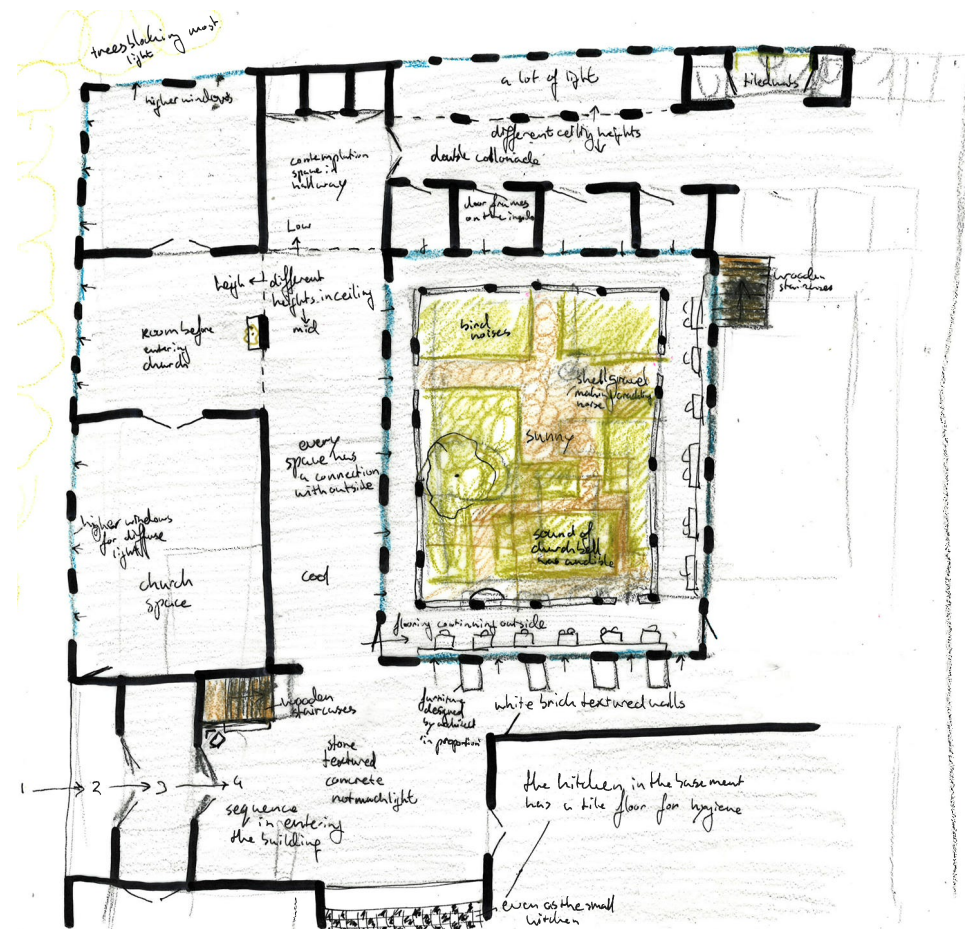
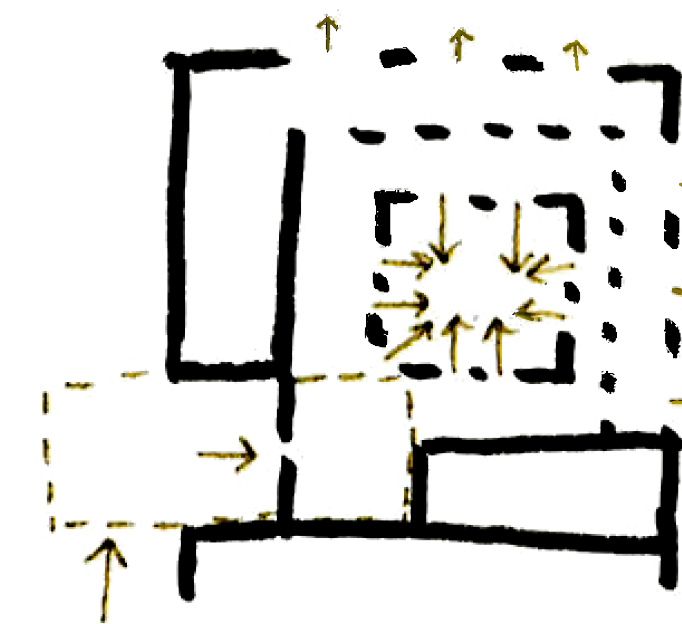
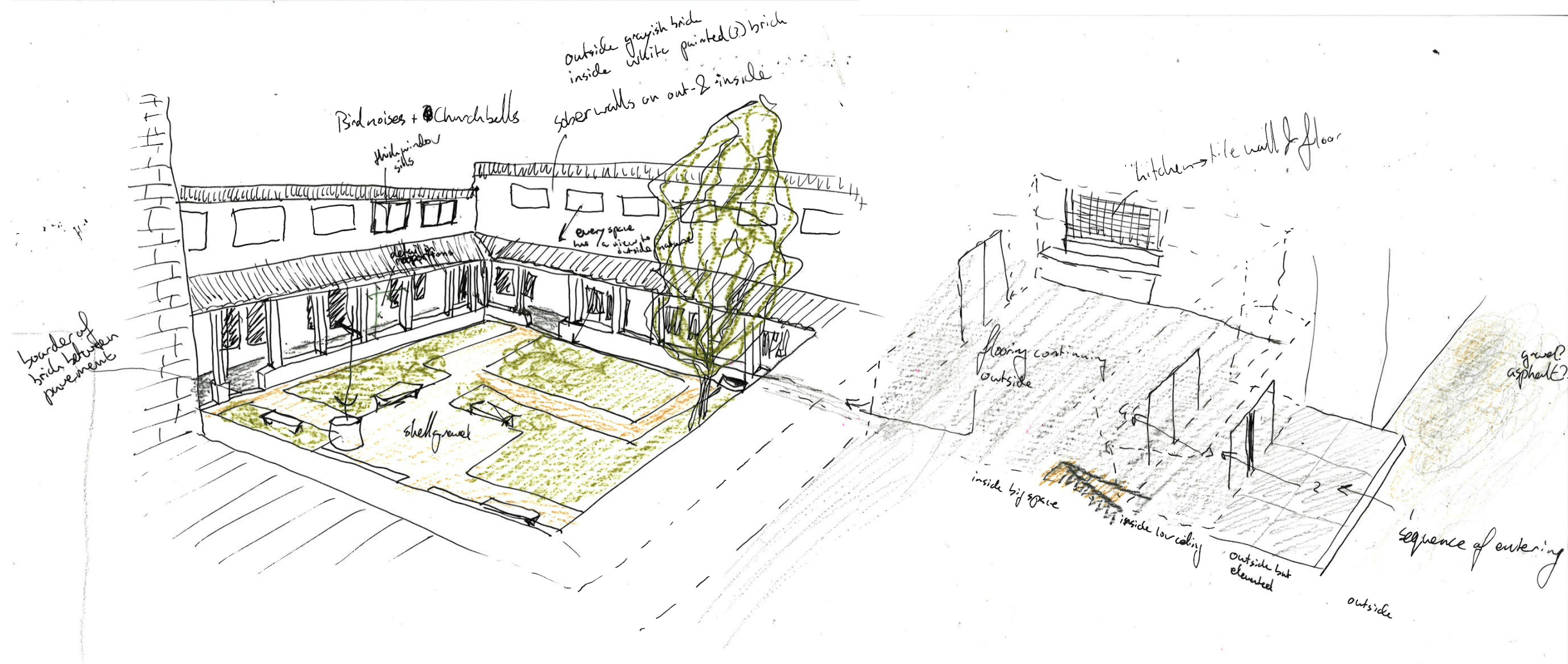
Demolition drawing







Tranquillity



Design Principles



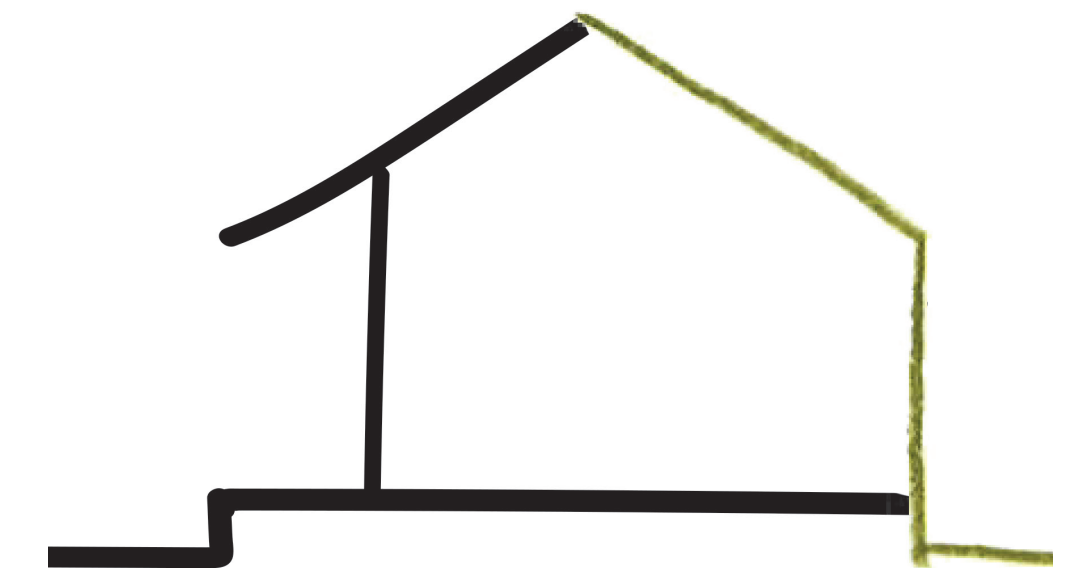
Multi Sensory



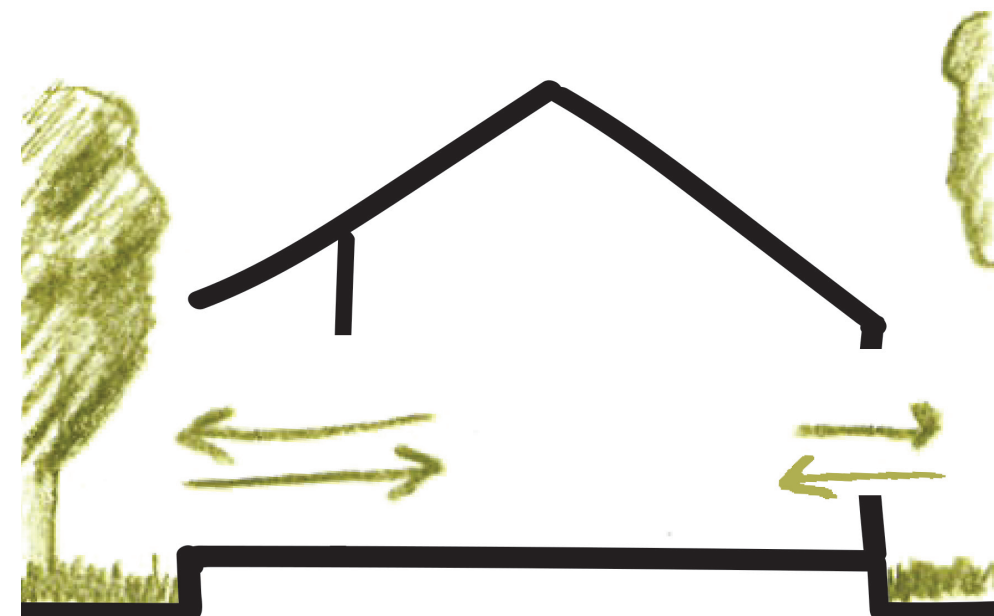
Soft transition



'Binnenwereld' vs. 'Buitenwereld'



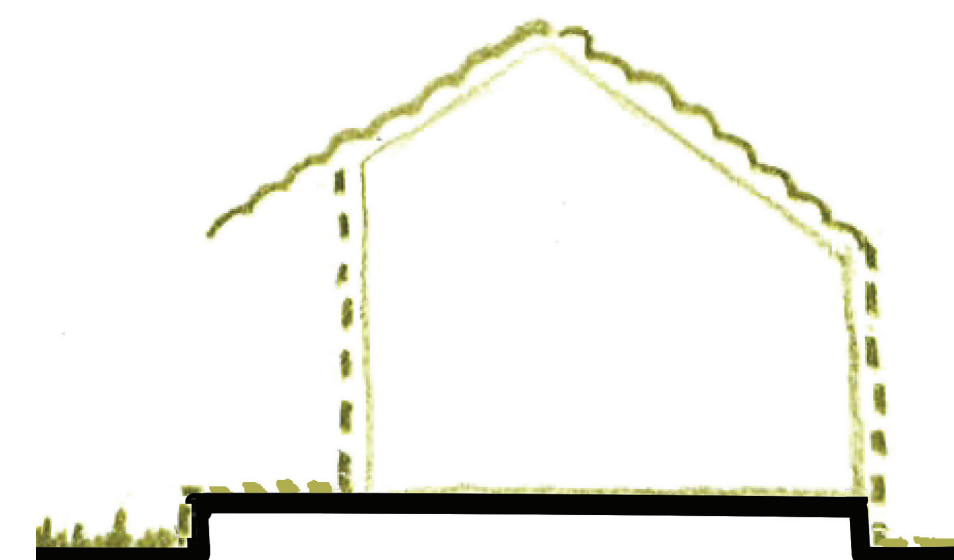
Conserving the
composition in context



Connection with nature



Self-regulating Climate

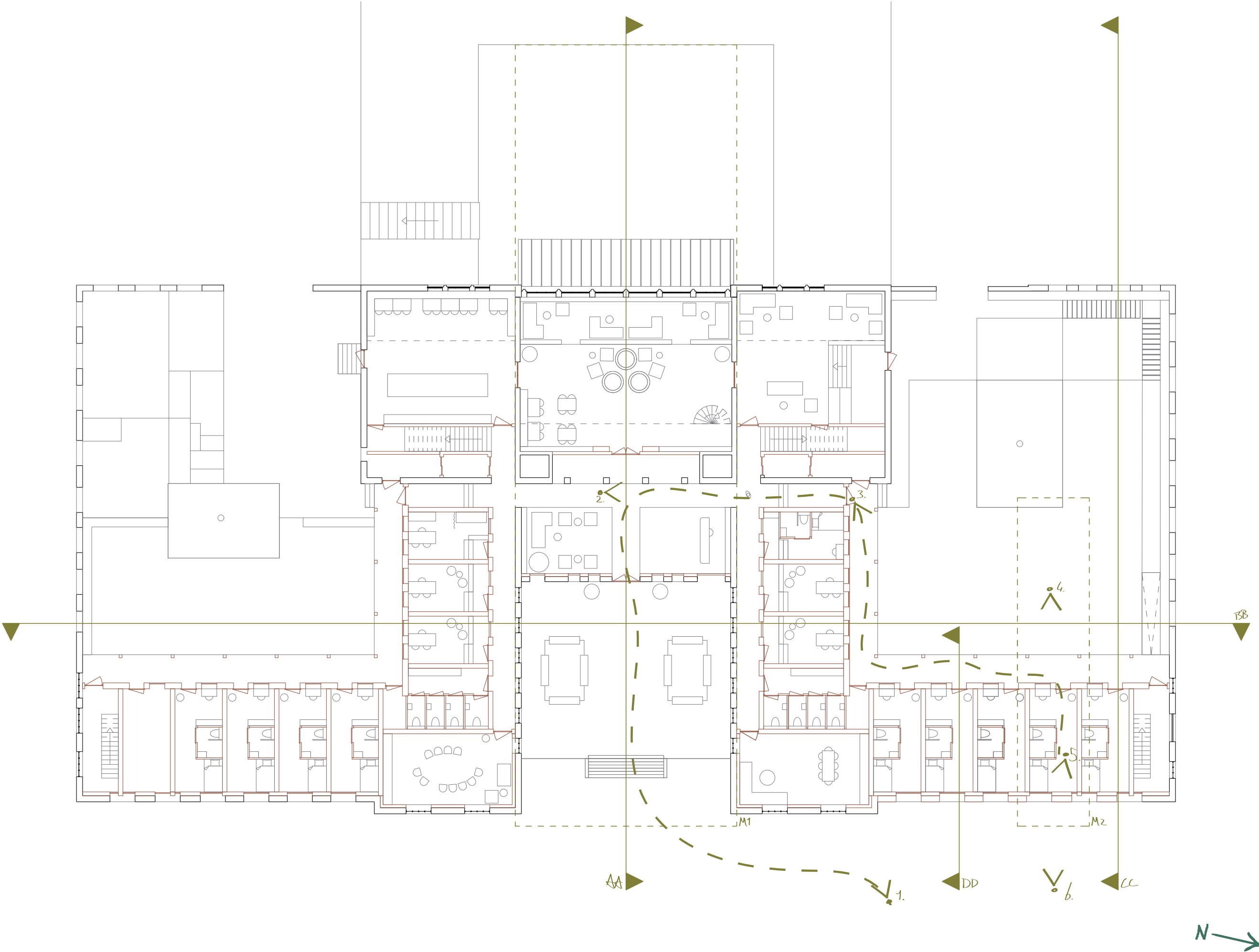


Materials



Orientation through
chimneys and gardens

A multi-sensory exploration
through the design



Ground Floor

Ground floor

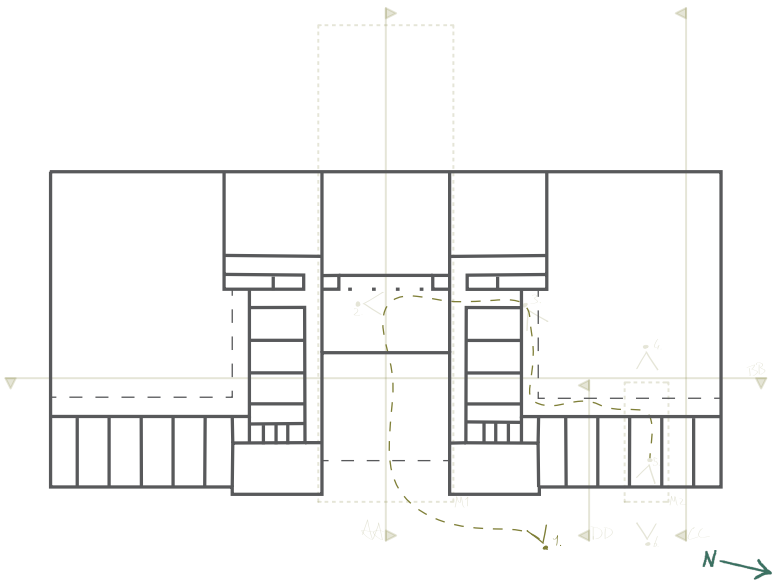
Scale 1:200



1. Approaching the Building



1. Approaching the building



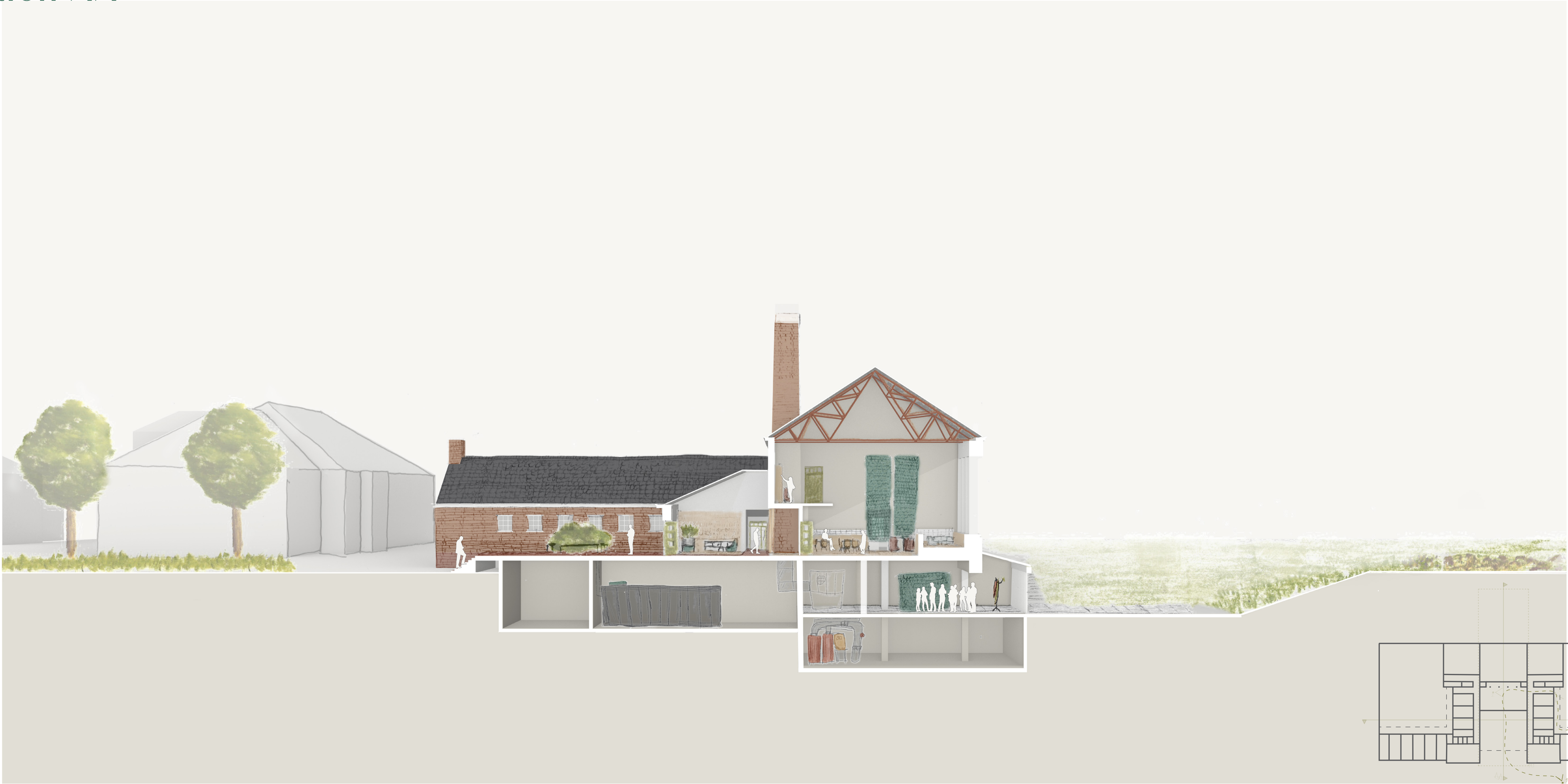




Section AA

Section AA

Scale 1:200



Section AA

Section AA

Scale 1:200



Section AA

Section AA

Scale 1:200

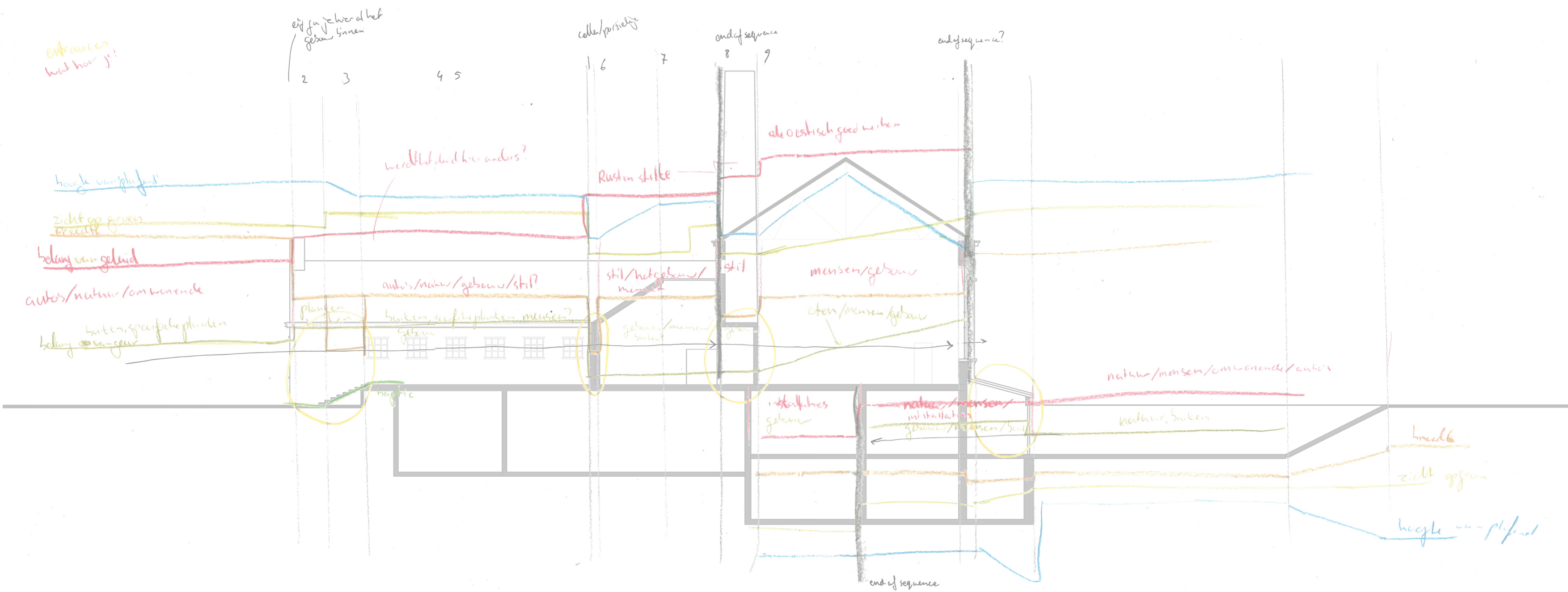




Section AA Analysis

Section AA

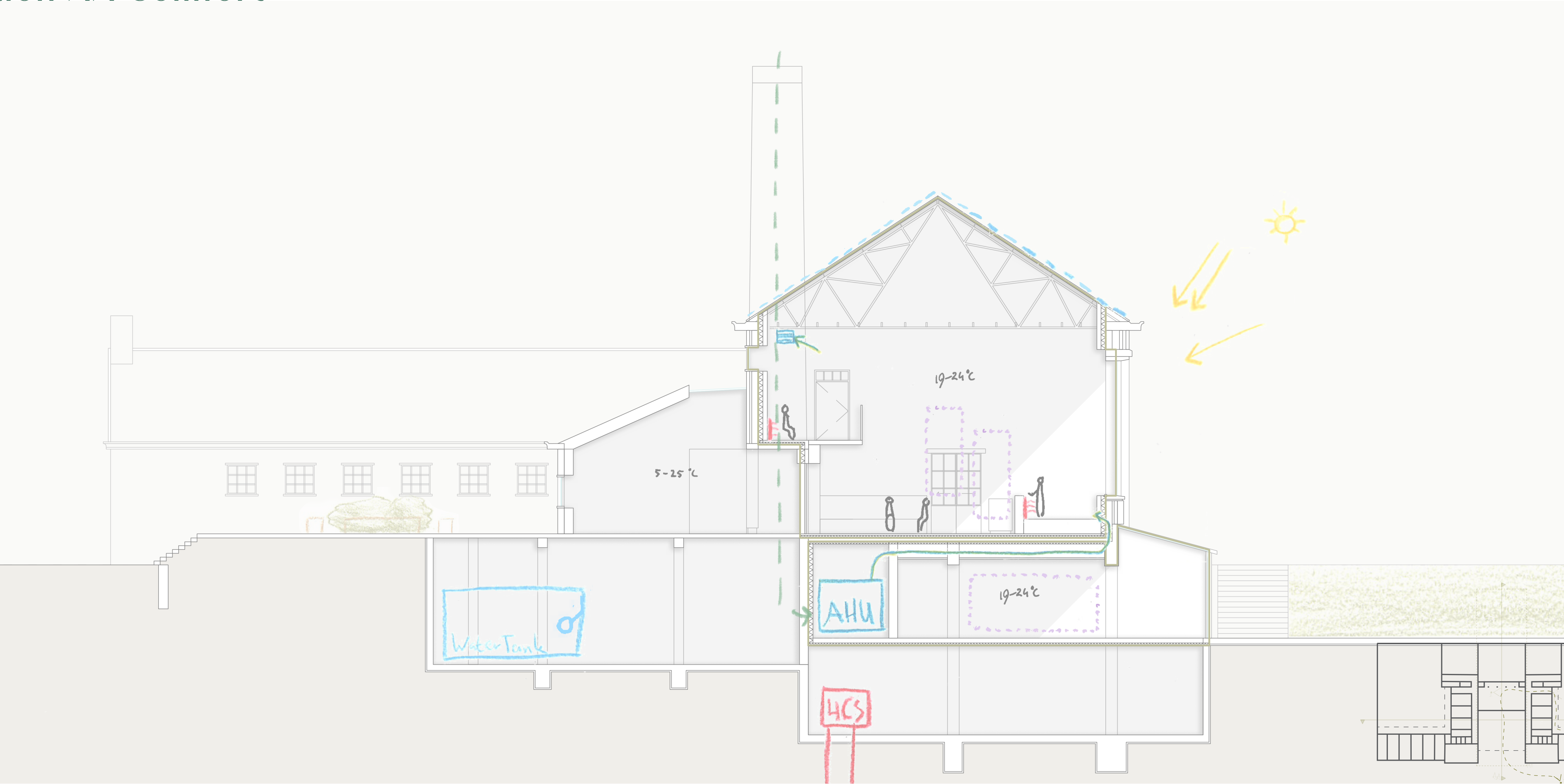
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Section AA Comfort

Section AA Comfort diagram

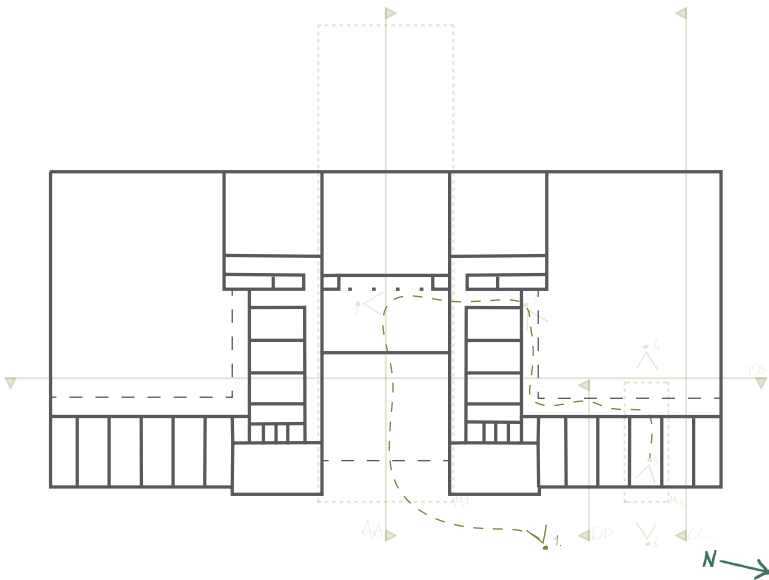
Scale 1:200



2. Welcome!



2. Welcome!



Section BB

Section BB

Scale 1:200



Section BB

Section BB

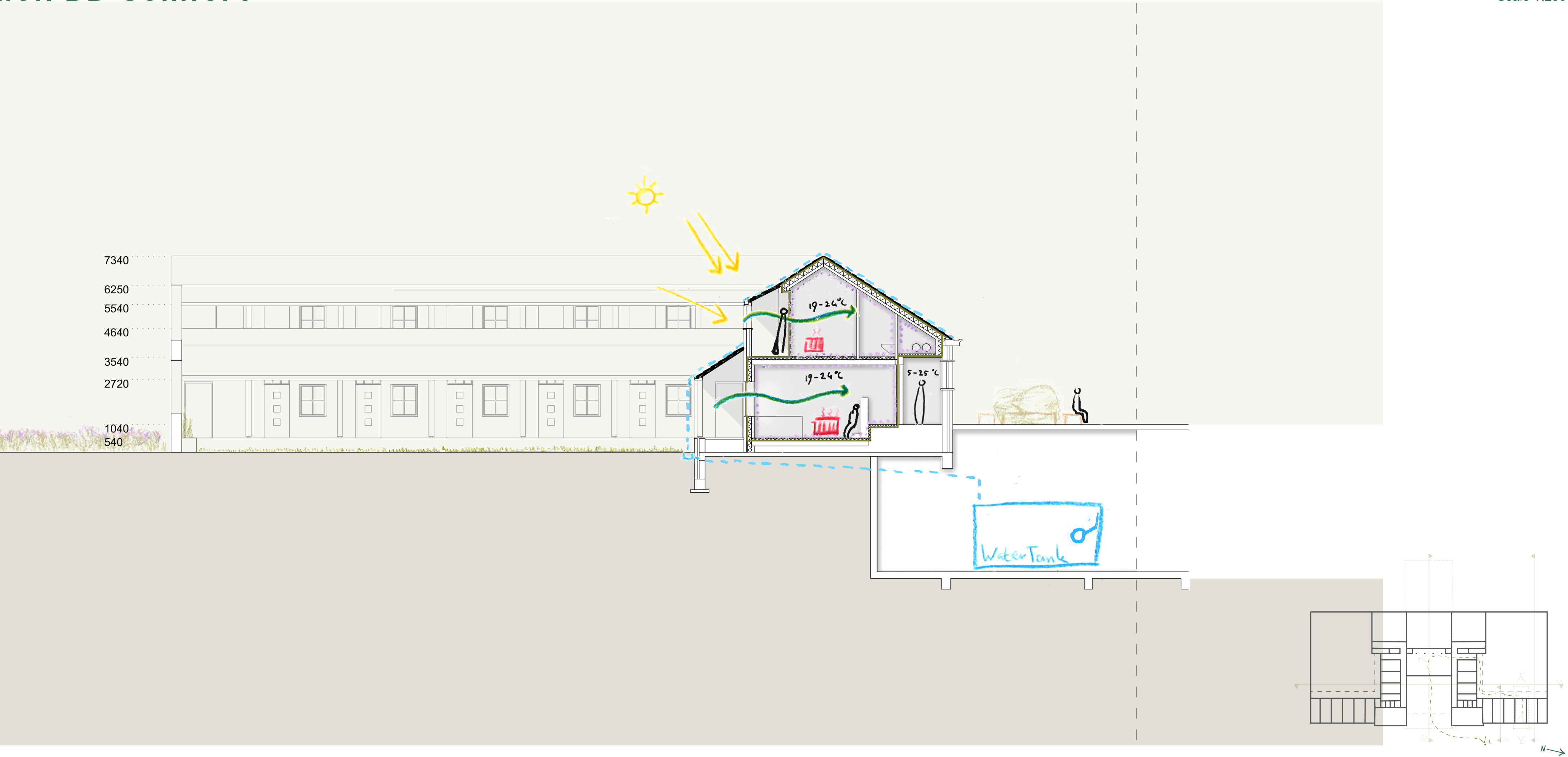
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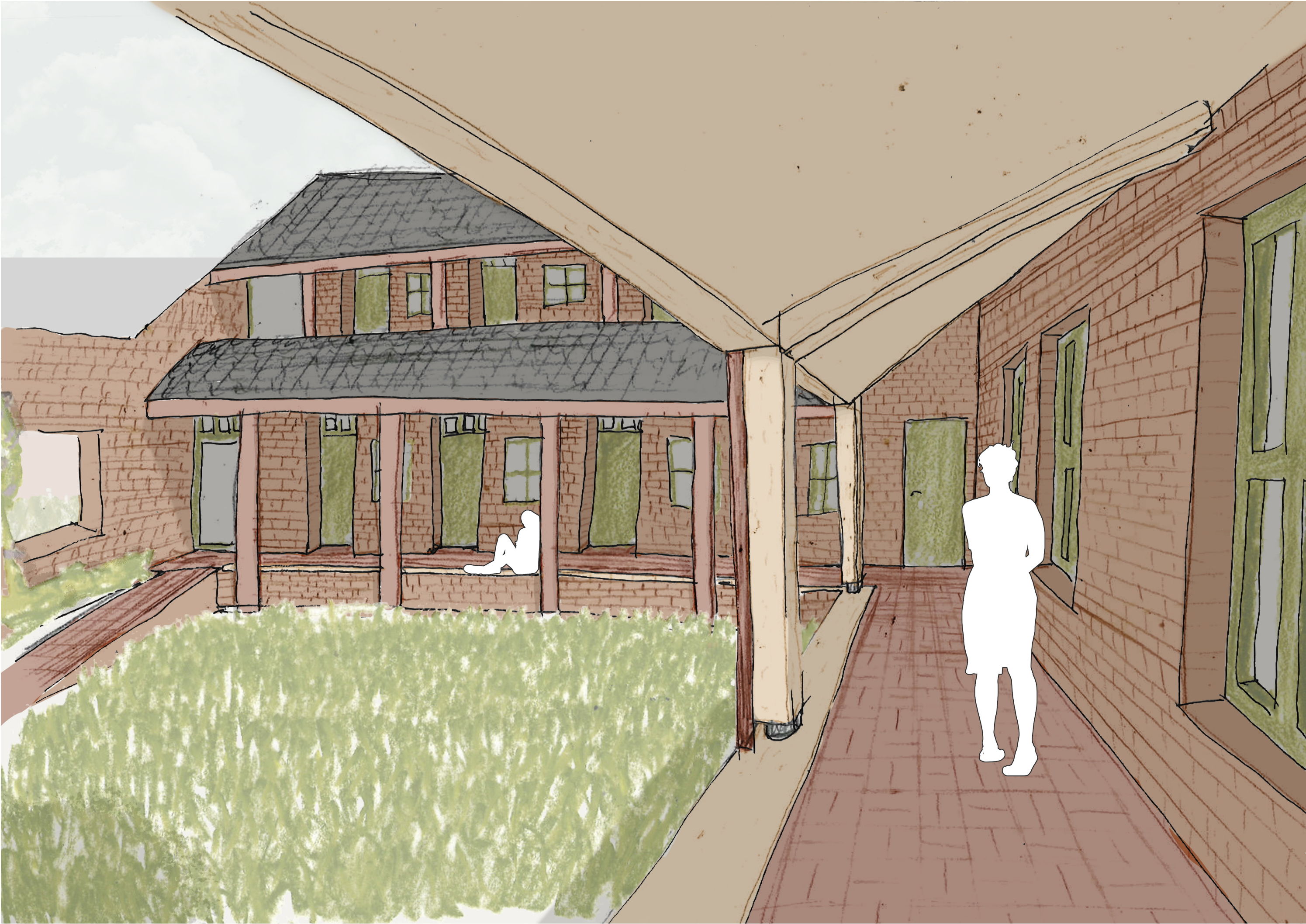
Section BB Comfort

Section BB Comfort diagram

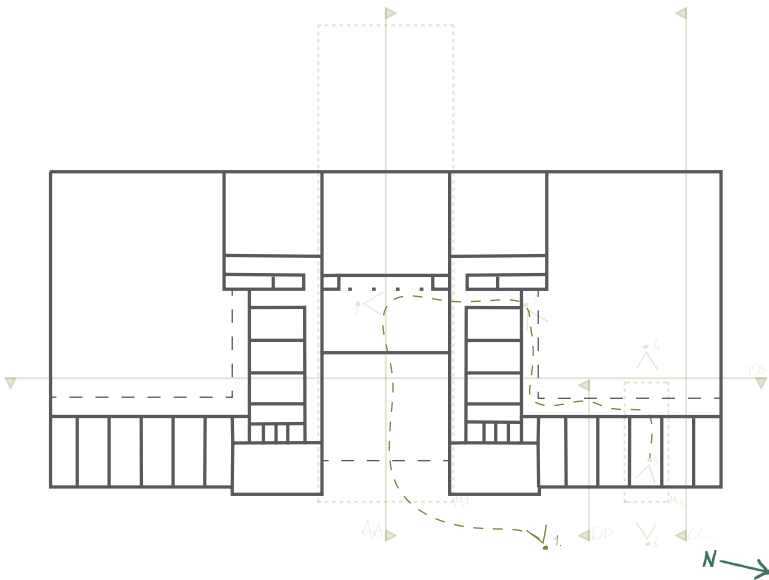
Scale 1:200



3. In the Garden



3. In the garden



Section CC

Section CC

Scale 1:200

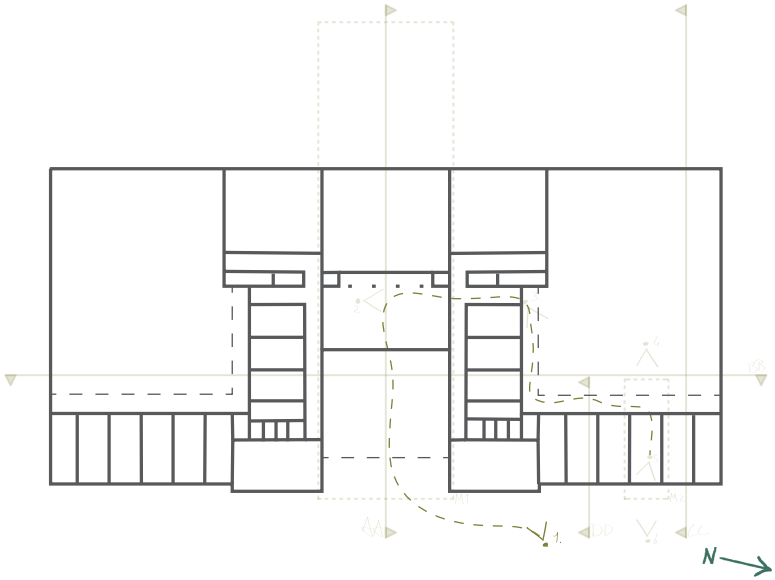


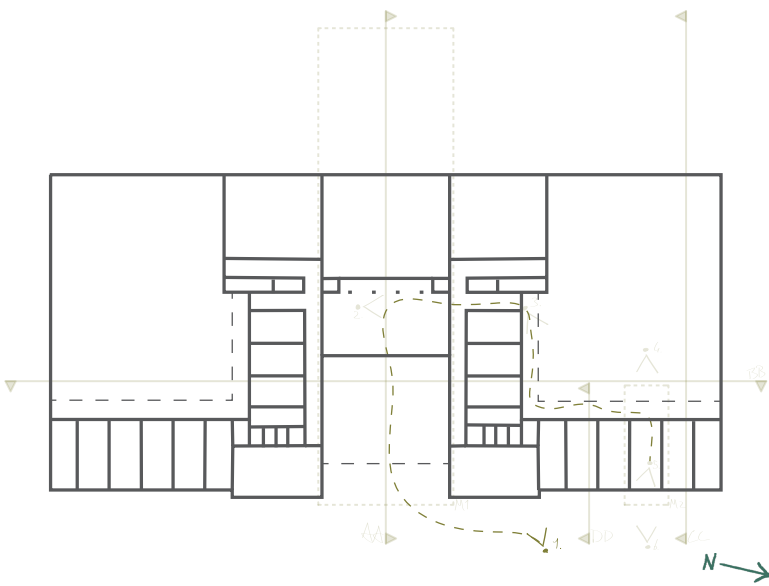
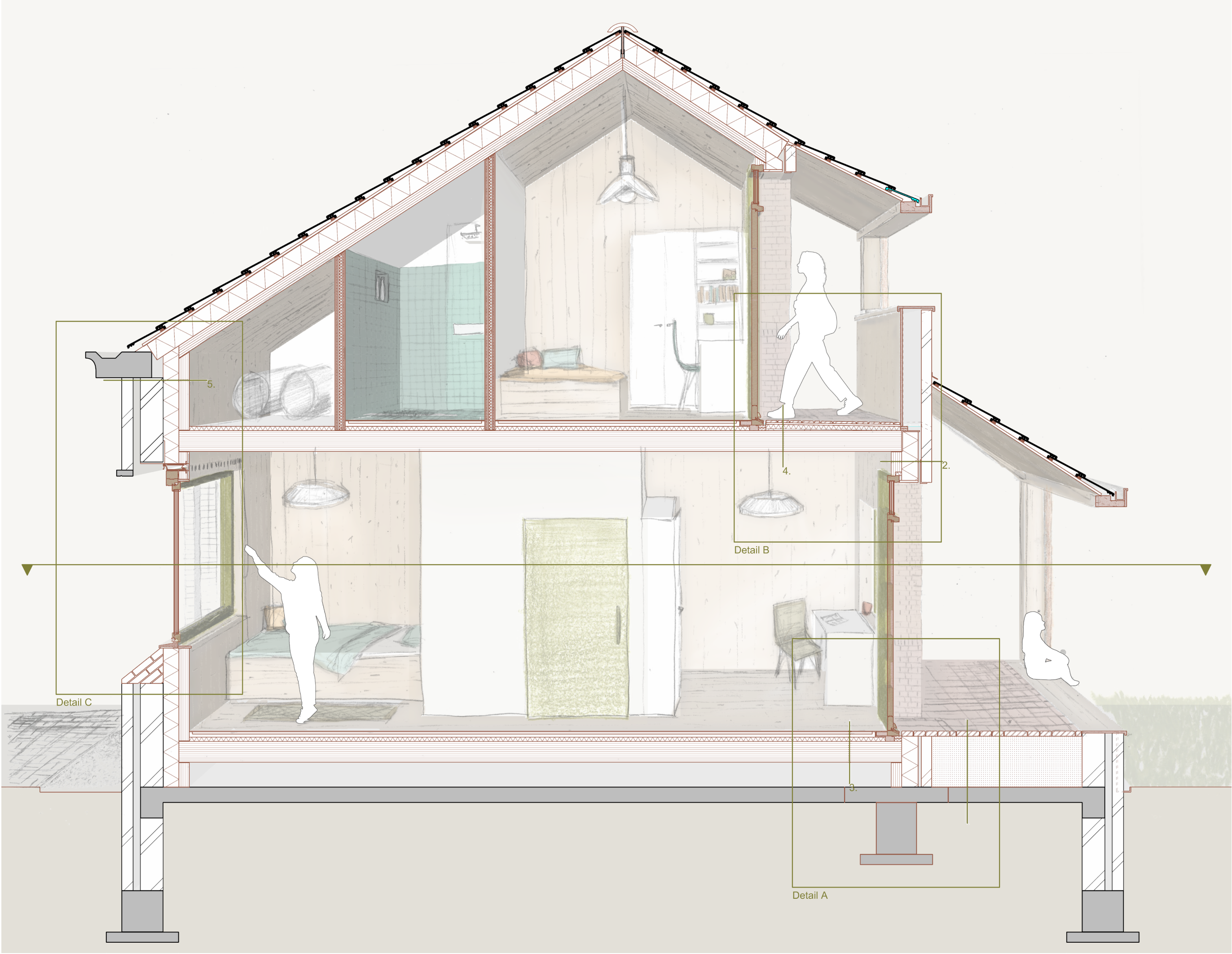


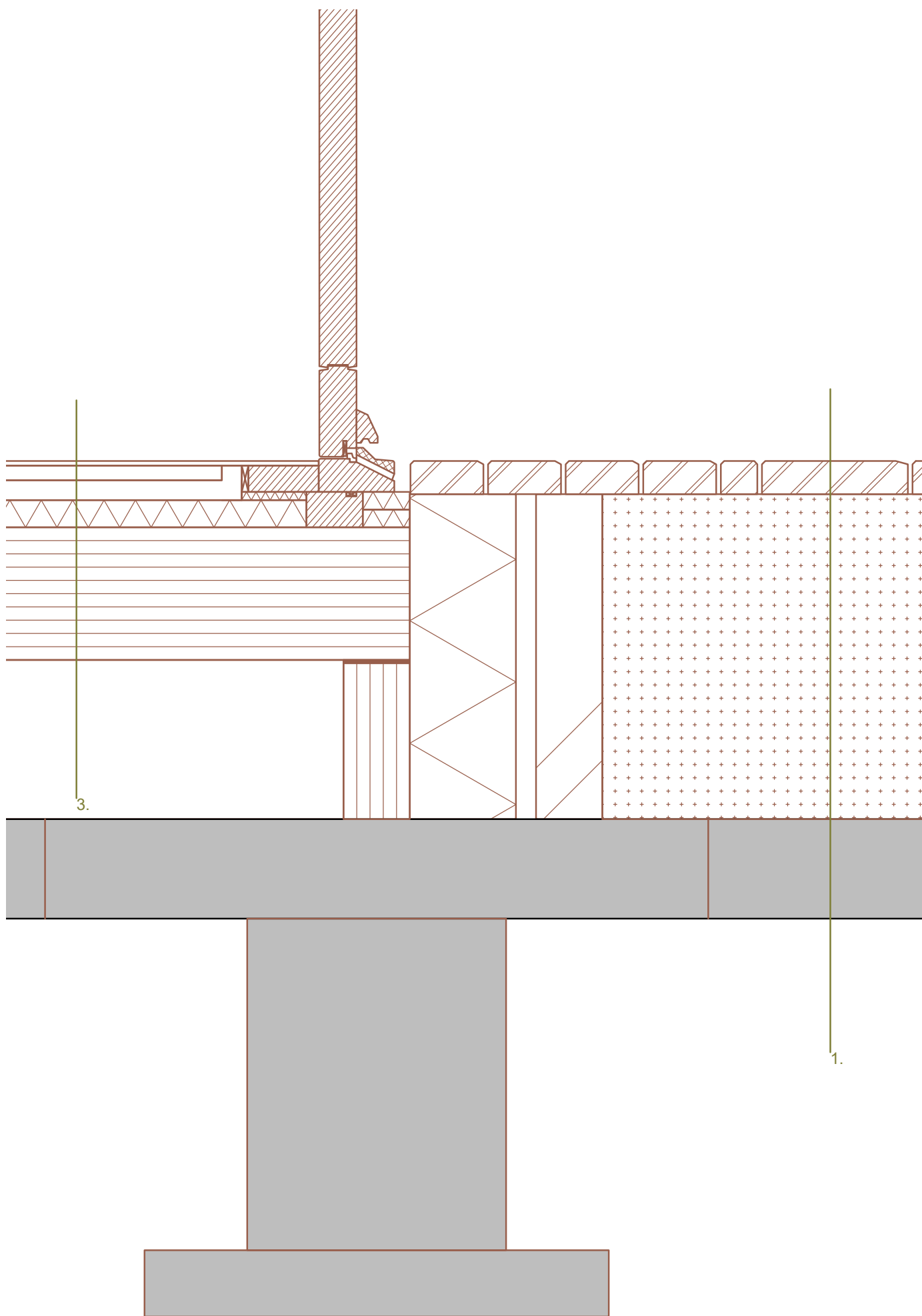
Section DD

Section DD

Scale 1:20

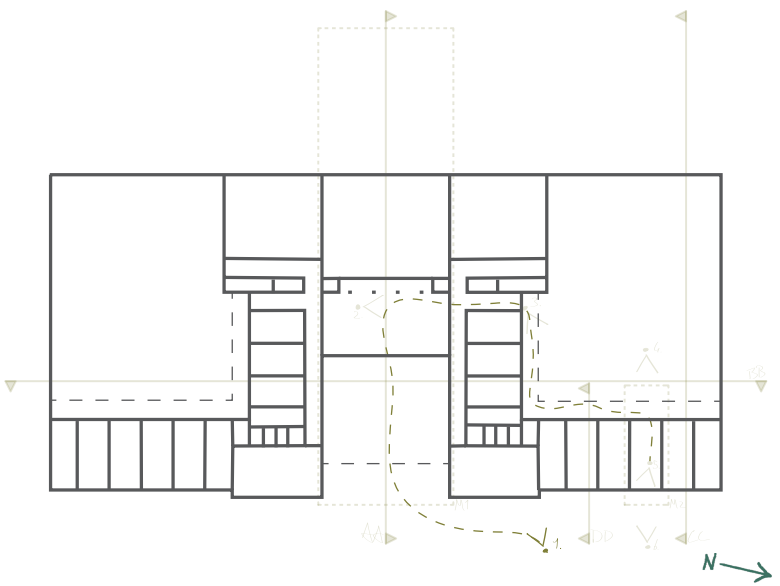
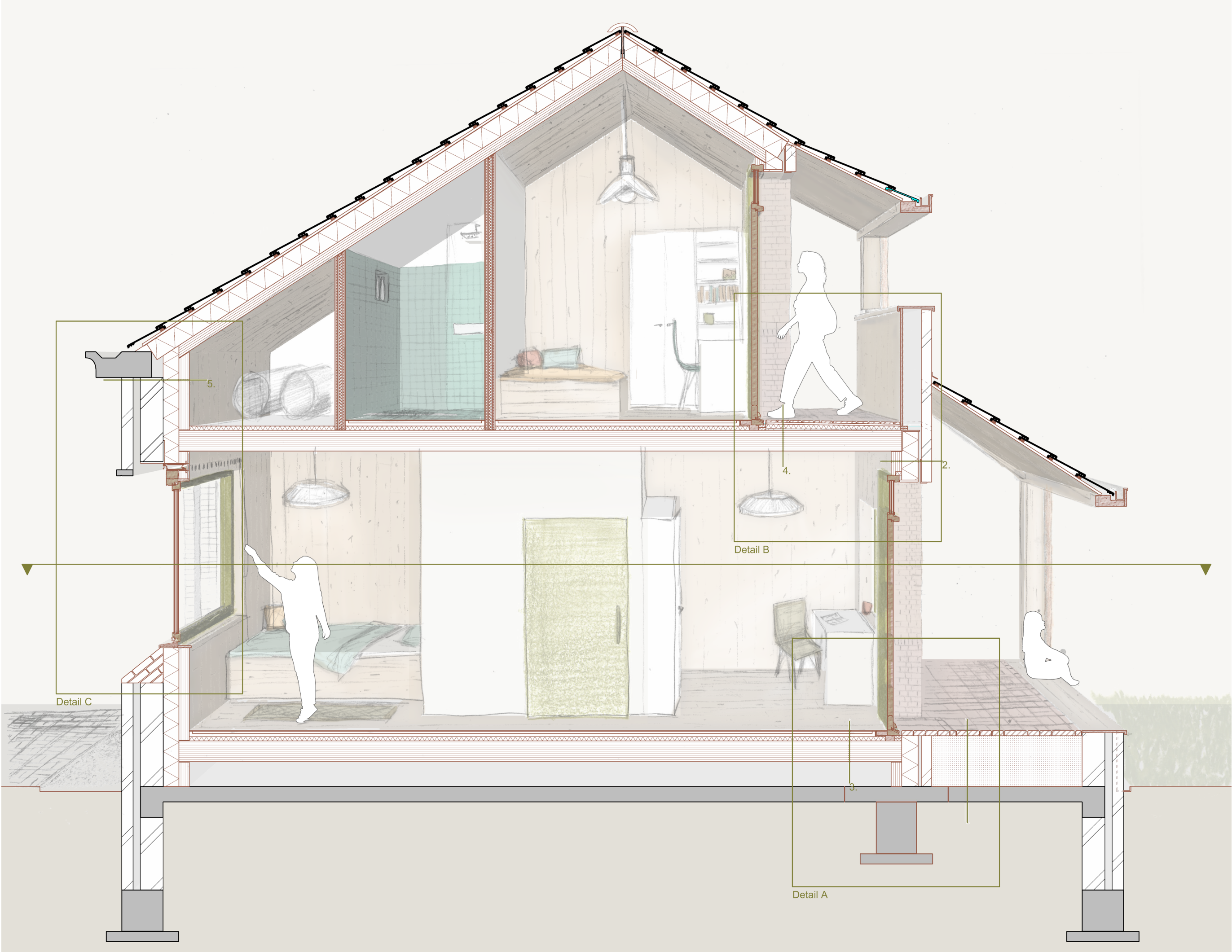


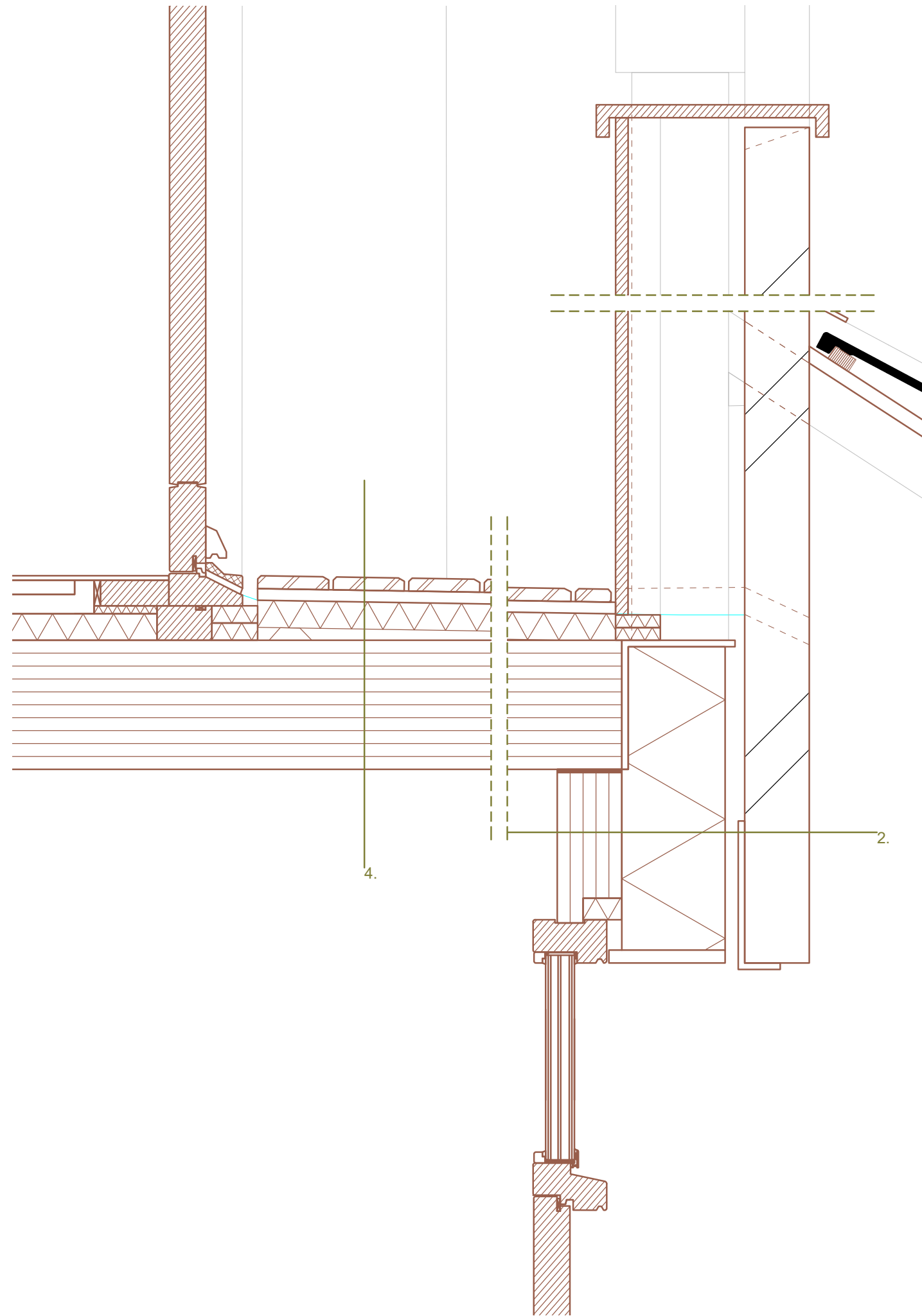




Detail A

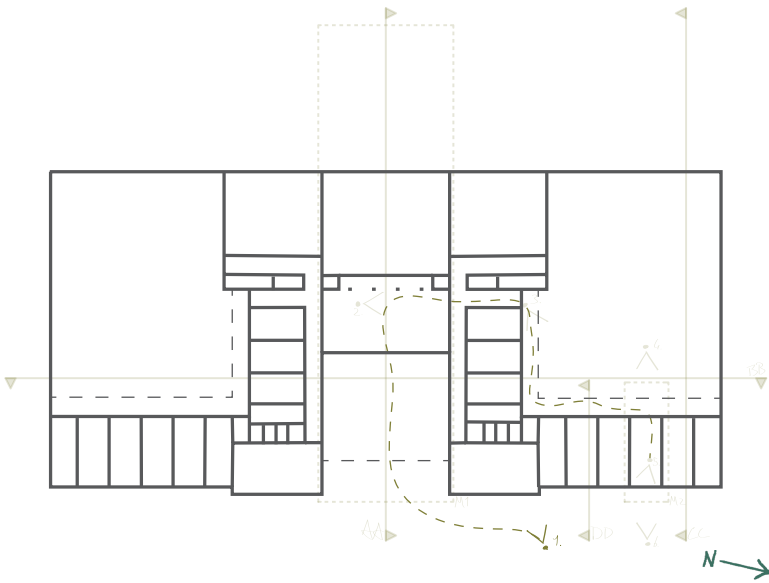
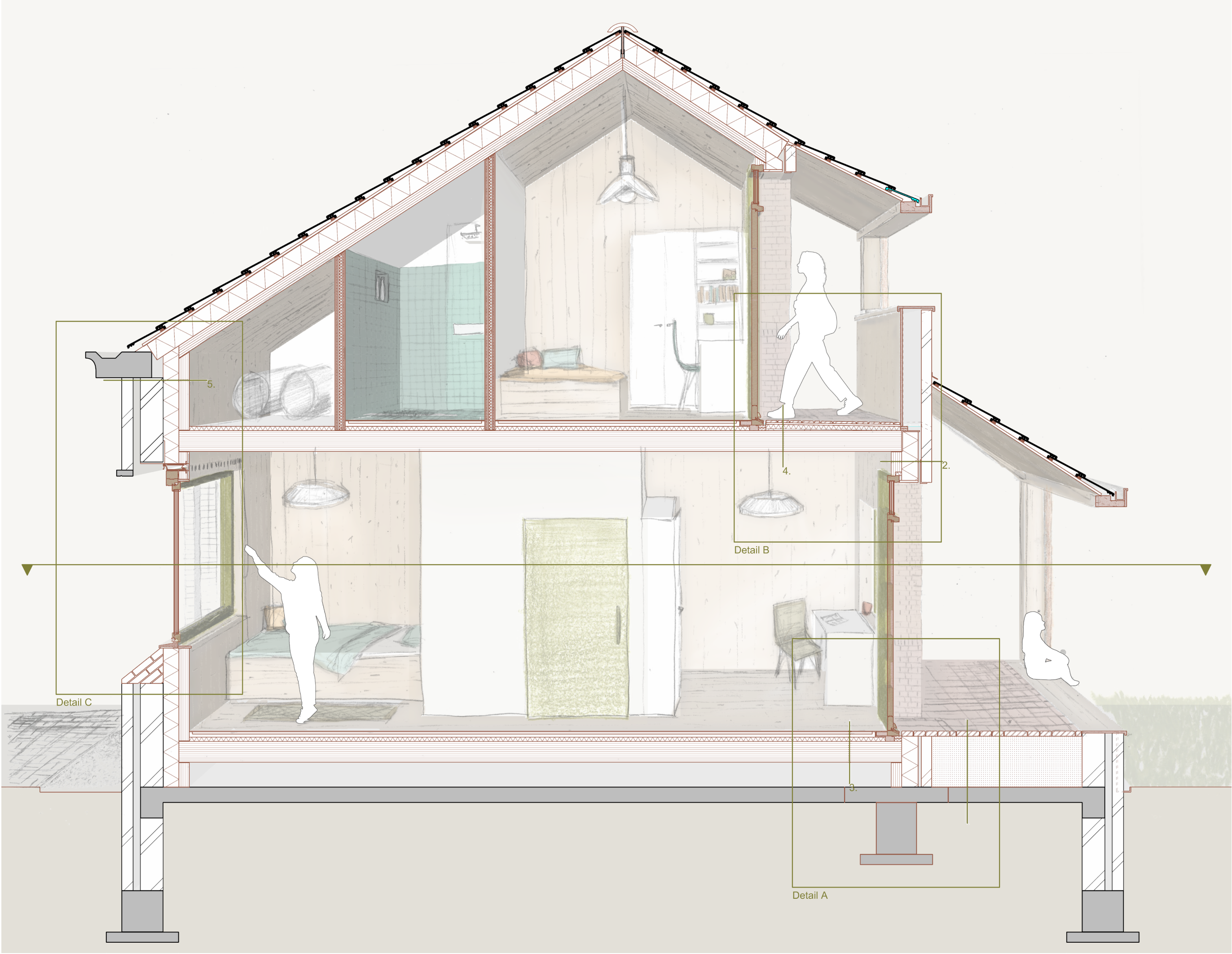
1.	Concrete (exsisting)	150 mm
	Sand	490 mm
	Pavers	50 mm
3.	CLT	200 mm
	Acoustic insulation	410 mm
	Fermacell system	52 mm
	Laminate floor	7 mm

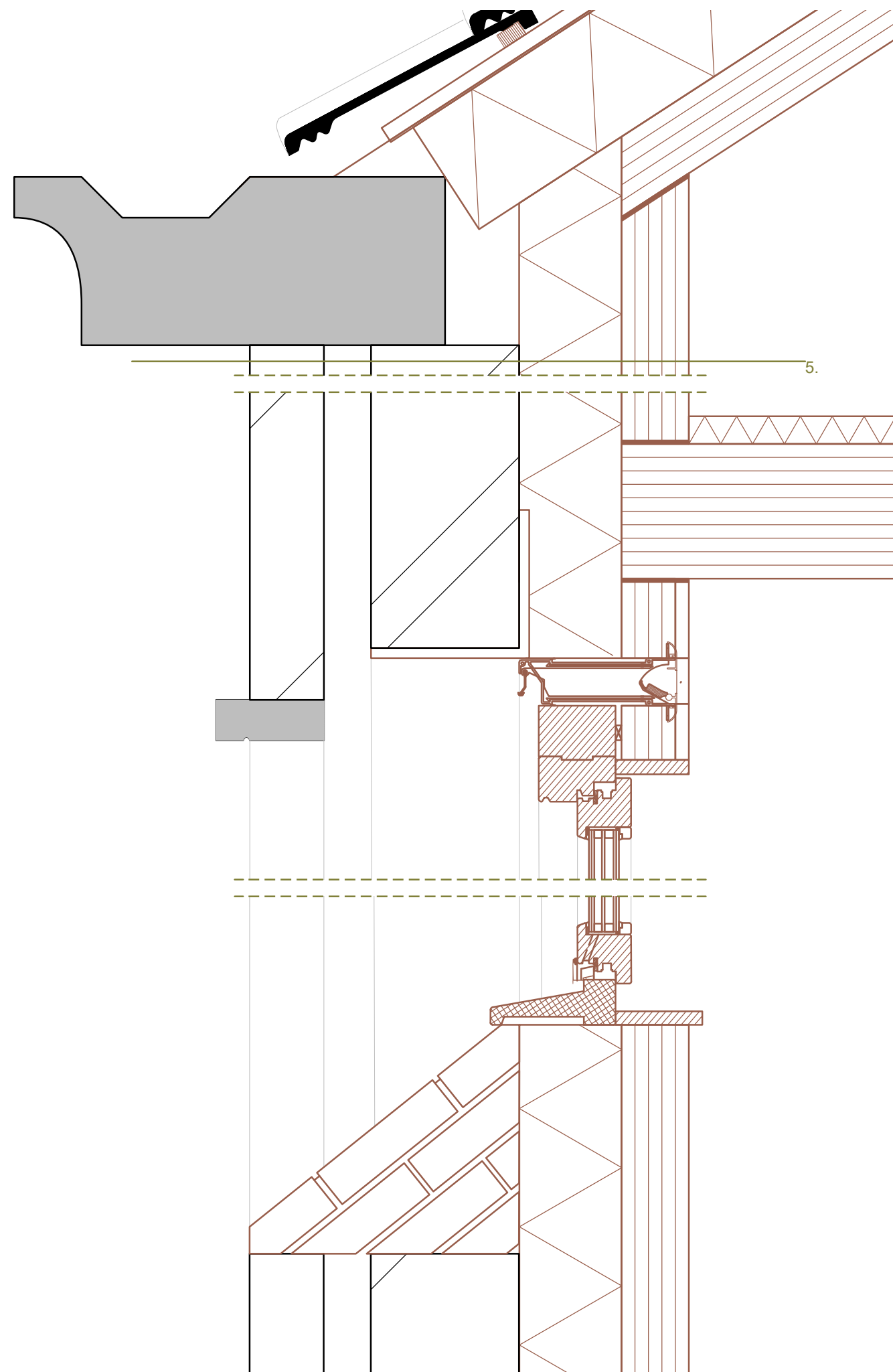




Detail B

2. Masonry	100 mm
Cavity	30 mm
Wood fibre insulation	160 mm
CLT	100 mm
4. Ceramic tiles	20 mm
Plate material	18 mm
Water thigh layer	-
OPTIM-R insulation	42 mm
Adjustable feet	55 mm - 0 mm
CLT	200 mm





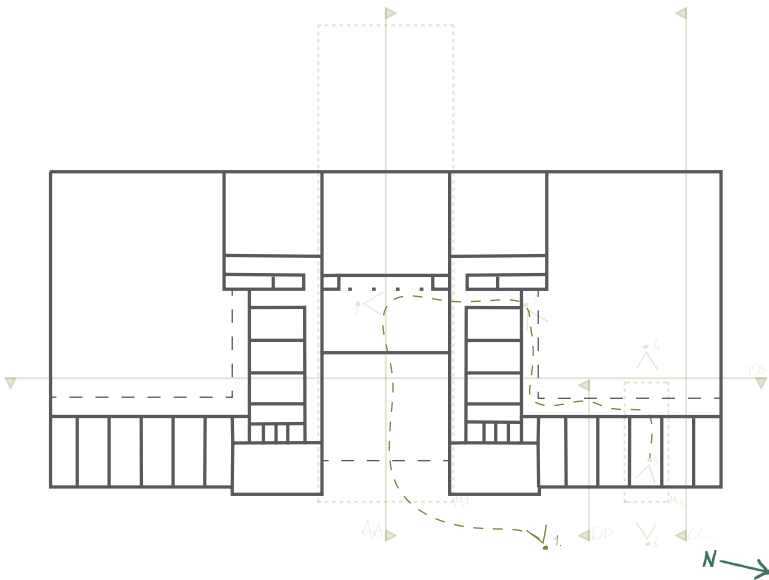
Detail C

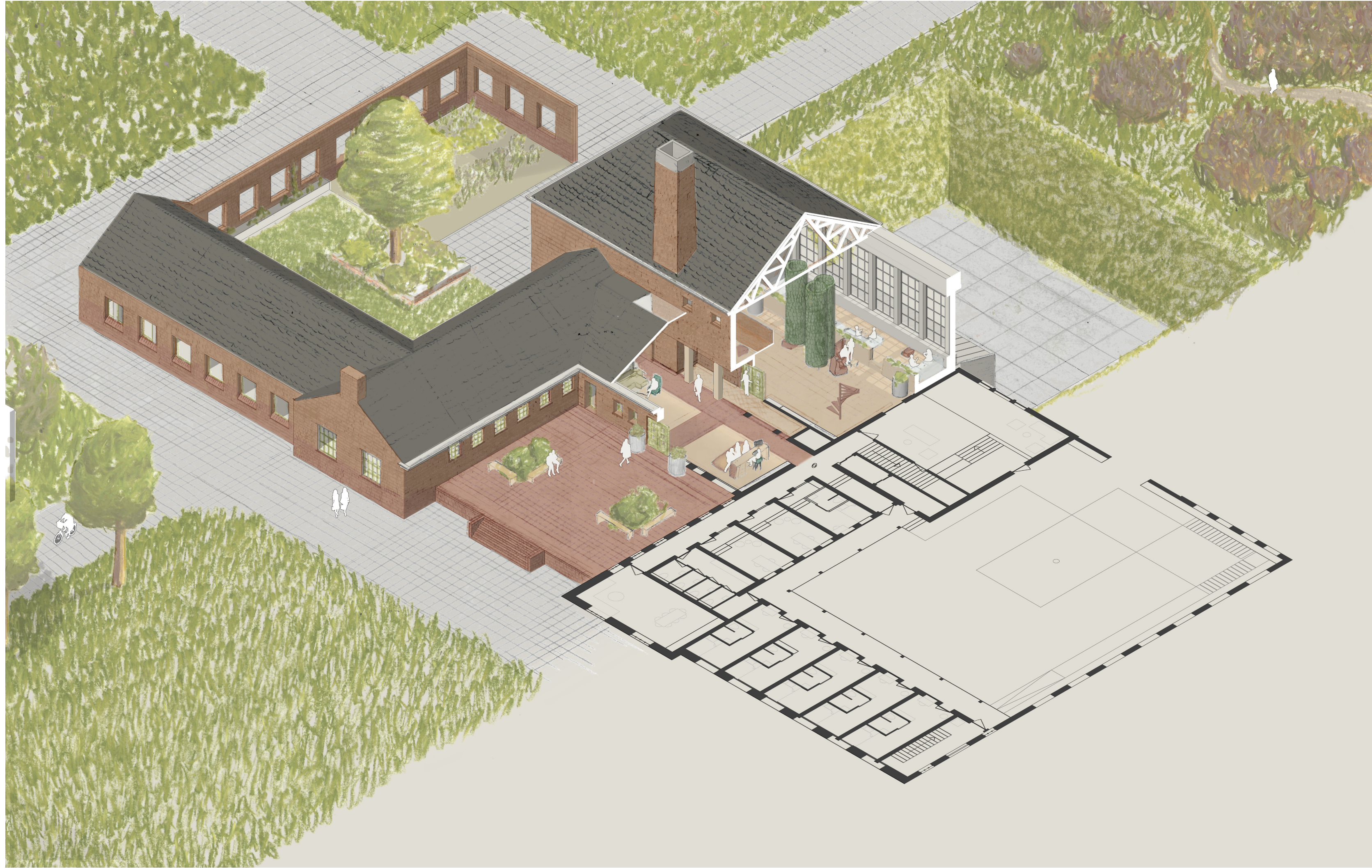
5. Masonry	110 mm
Cavity	50 mm
Masonry	220 mm
Water tight layer	-
Woodfibre Insulation	160 mm
CLT	100 mm

5. Connection to Appelplaats



5. Connection to the Appelplaats





Thank you!