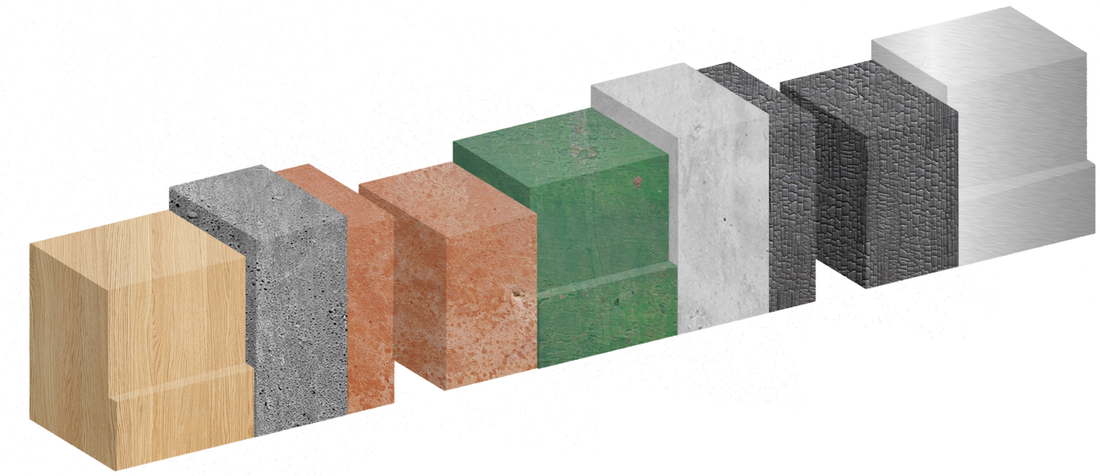
TYPOLOGIES:

small communities for big encounters

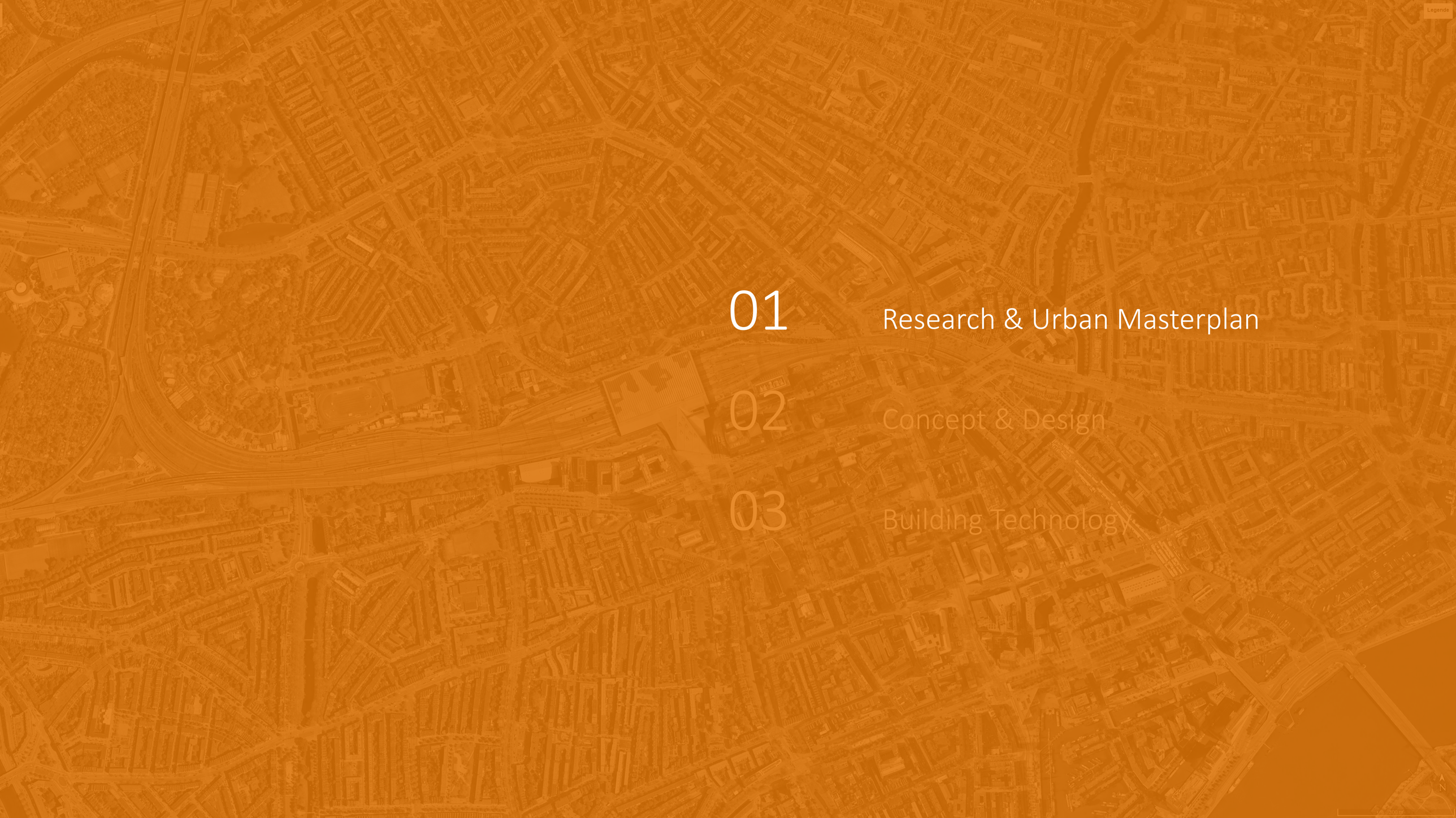


Maximilian Mehl

17 June 2022

P5 Presentation

Advanced Housing Design Studio



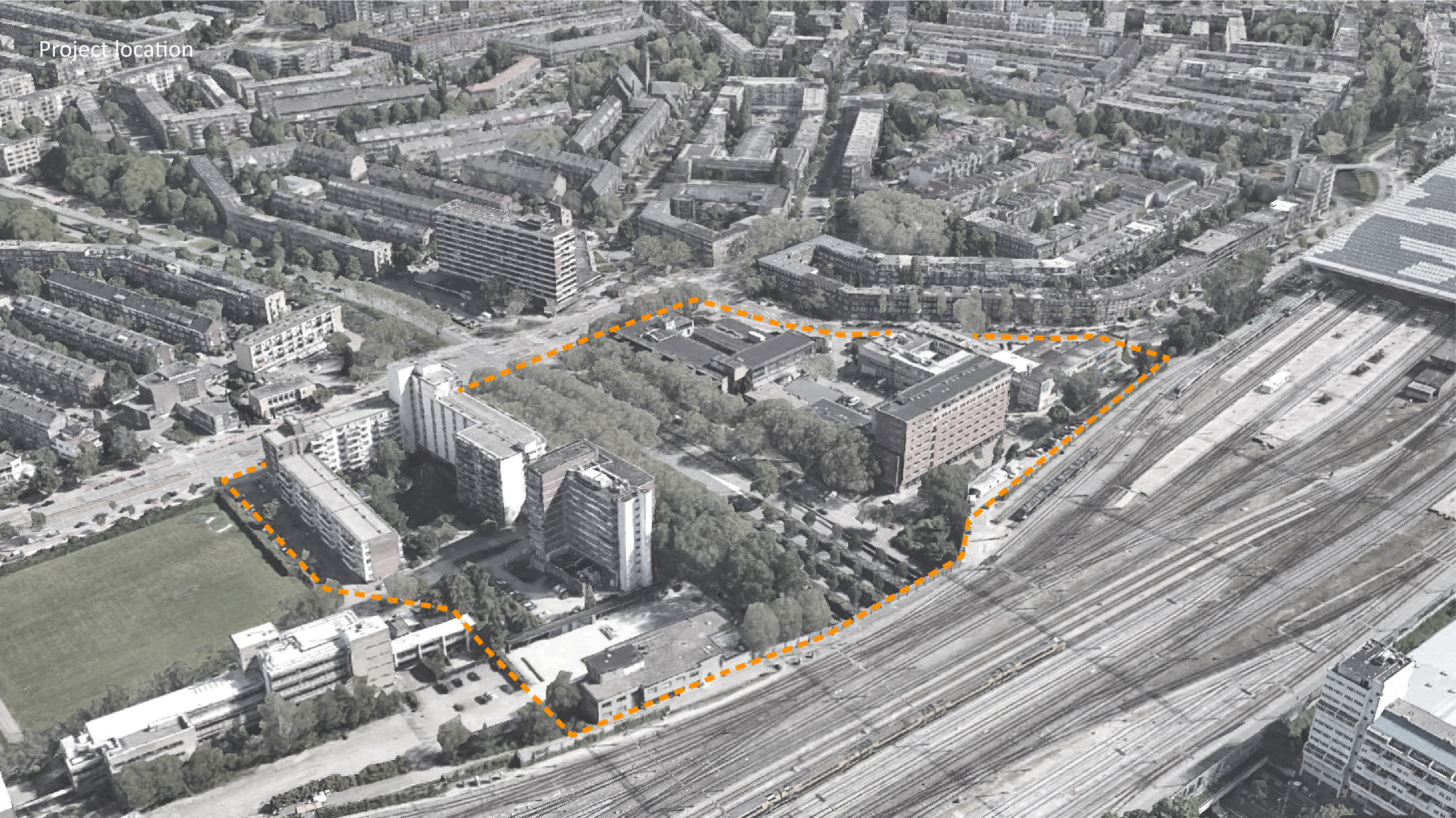
01 Research & Urban Masterplan

02 Concept & Design

03 Building Technology


Legende
Project location
Blijdorp
City Center
500 m
N


Project location
Blijdorp
Central Station
City Center
Legende
100 m


Project location

Problem Statement: Anonymity & a lack of identity

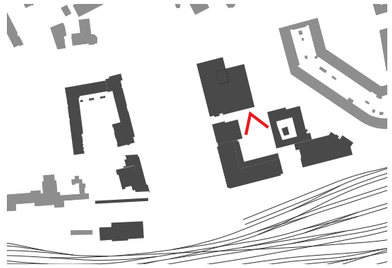
Walenburghof

Problem Statement: Anonymity & a lack of identity

Walenburghof

Problem Statement: Anonymity & a lack of identity

Walenburghof

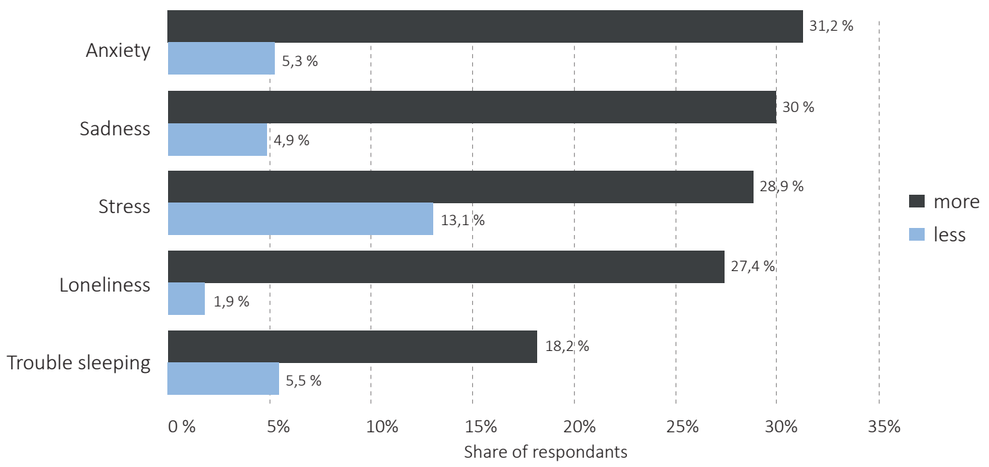


Problem Statement: Anonymity & a lack of identity

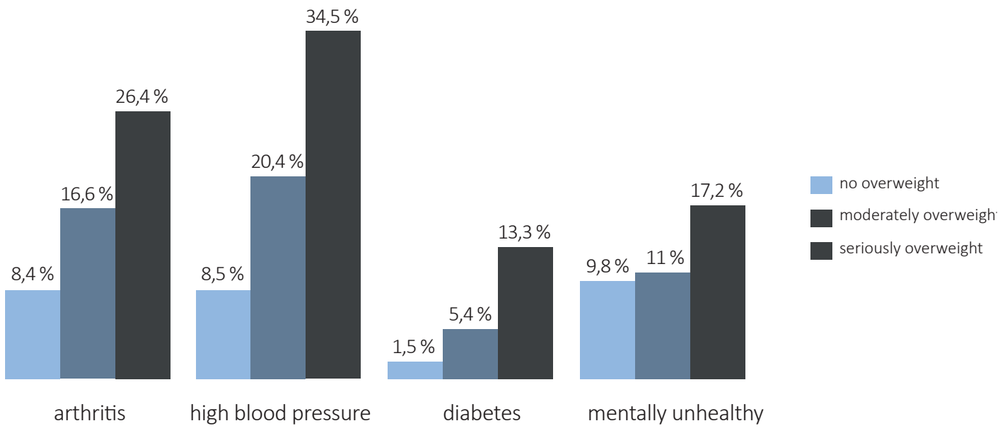
Walenburghof

Problem Statement - Decline of mental & physical health

Changes in mental health in the Netherlands in 2020



Chronic disease and overweight in the Netherlands



Source: Statistica (left), BETA office for Architecture (right)

Human Scale

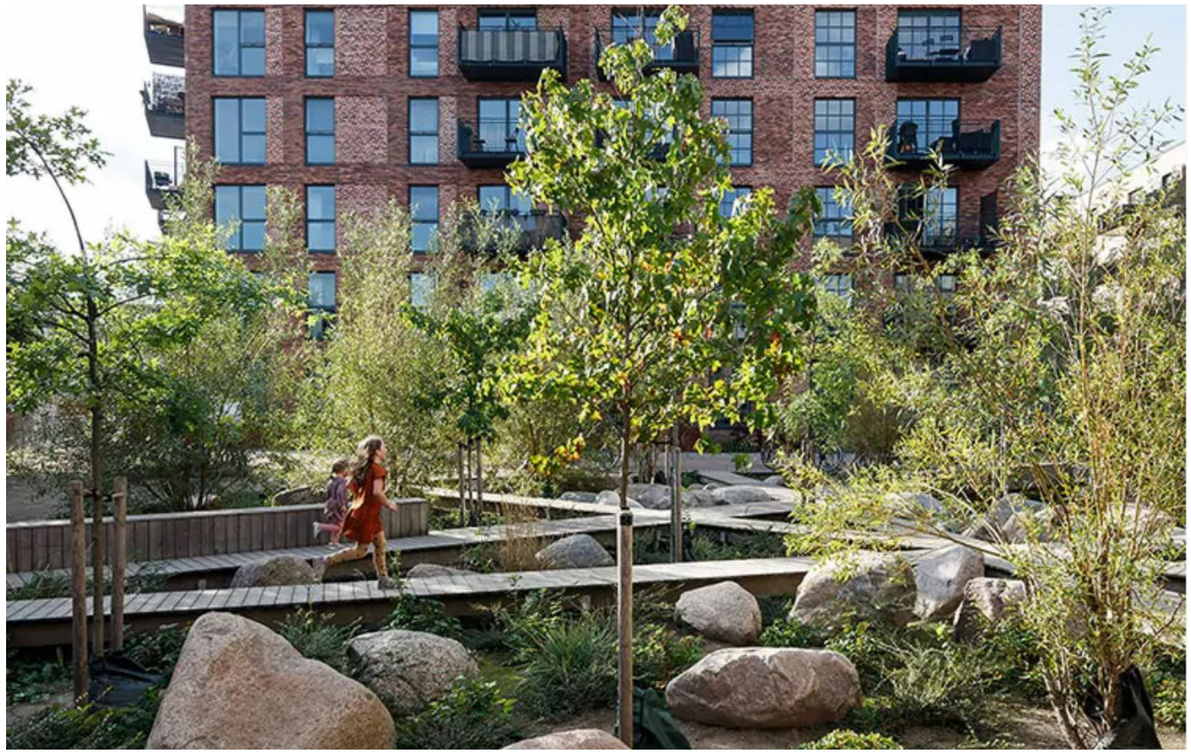
Borneo Eiland, Amsterdam

Copenhagen, Denmark

Hoorn, Netherlands

Dublin, Ireland

Healthy & Active Architecture - implementing nature in and around the home



Gronttorvet, Copenhagen

Geurst & Schulze, Funenpark, Amsterdam

Healthy & Active Architecture - promoting physical activity by attractive design solutions

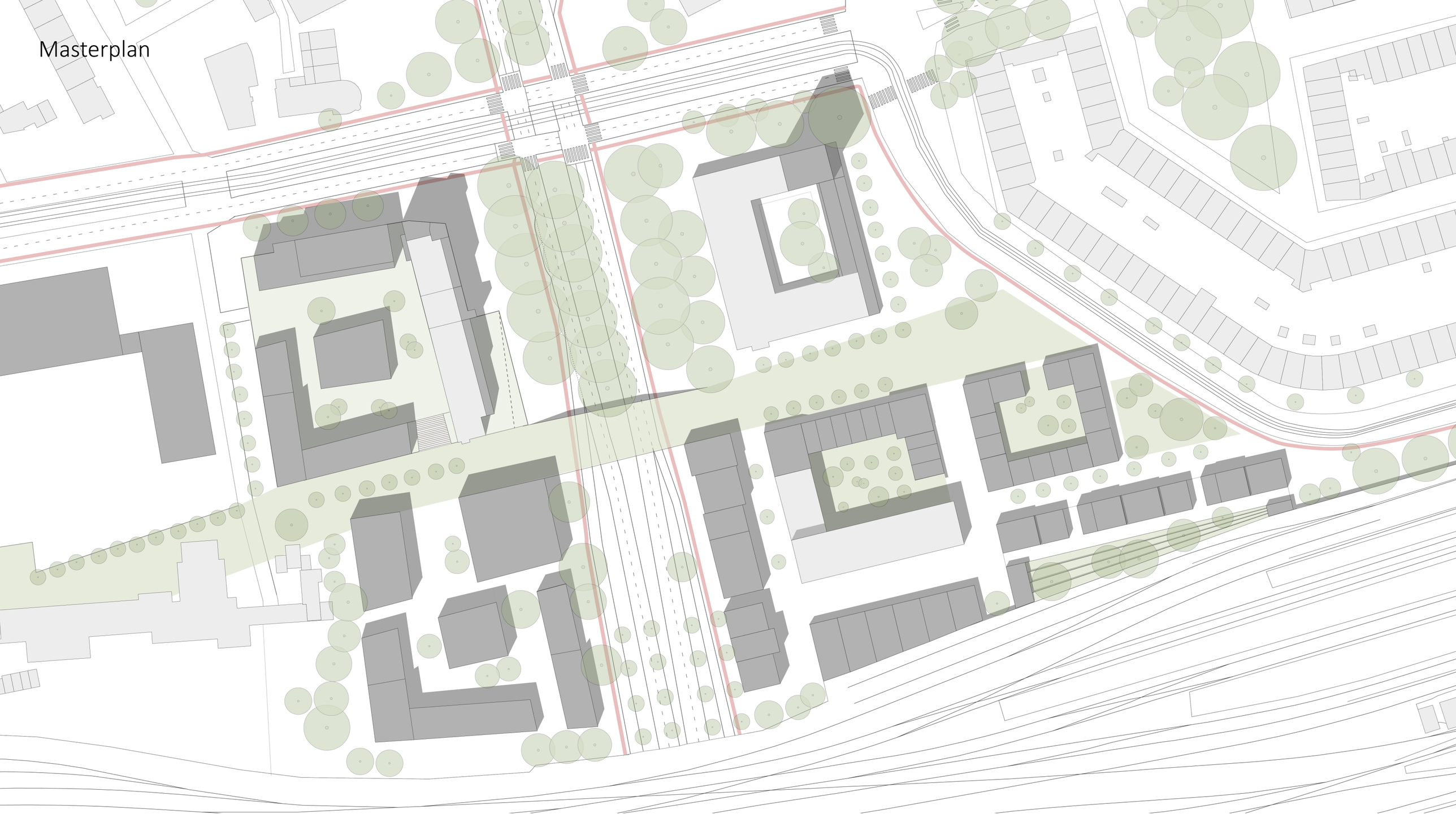
Deltares Office, Delft

Kalkbreite, Zürich

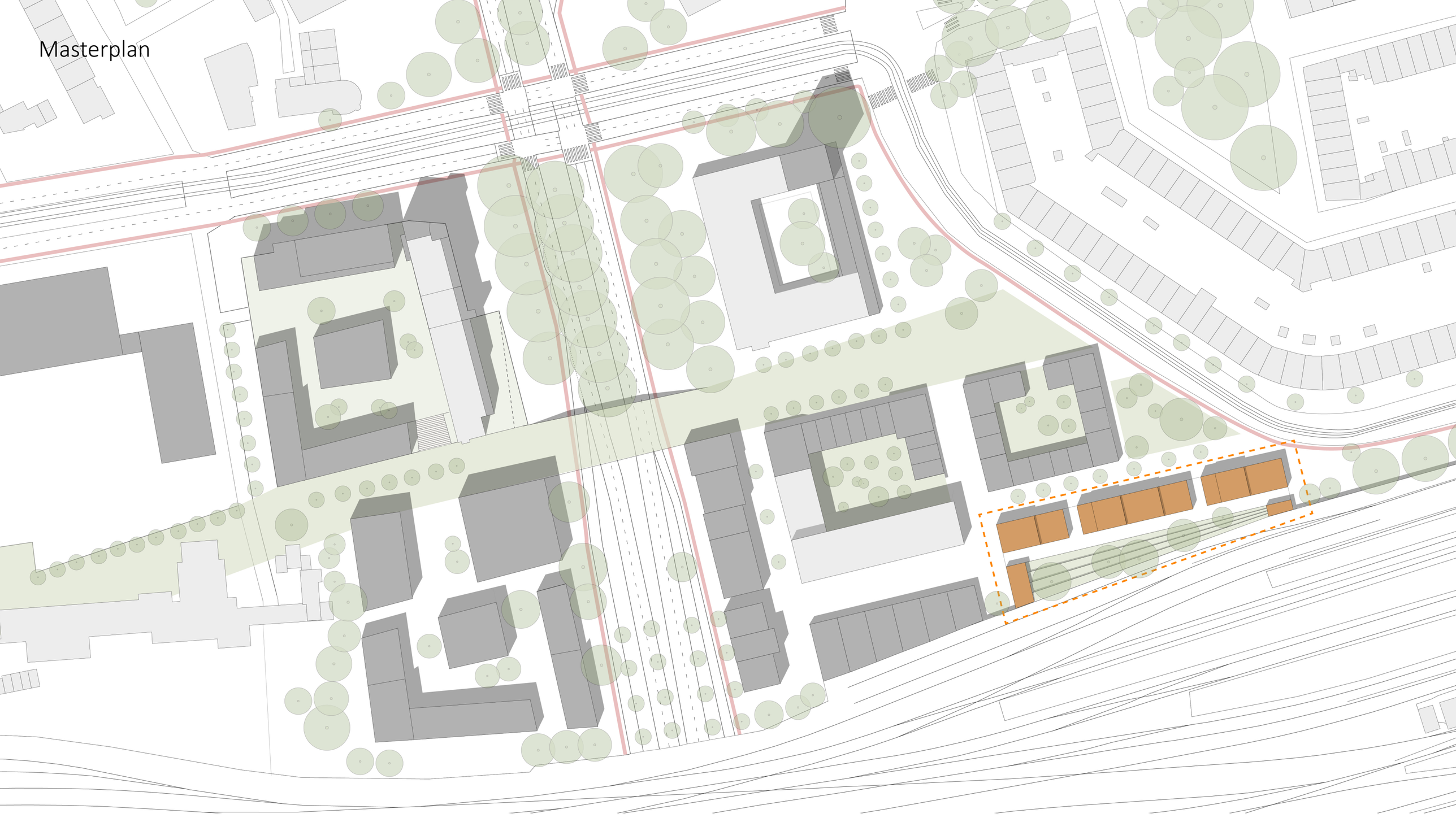
Arcadis, Sydney

Existing Situation

Masterplan



Masterplan



01 Research & Urban Masterplan

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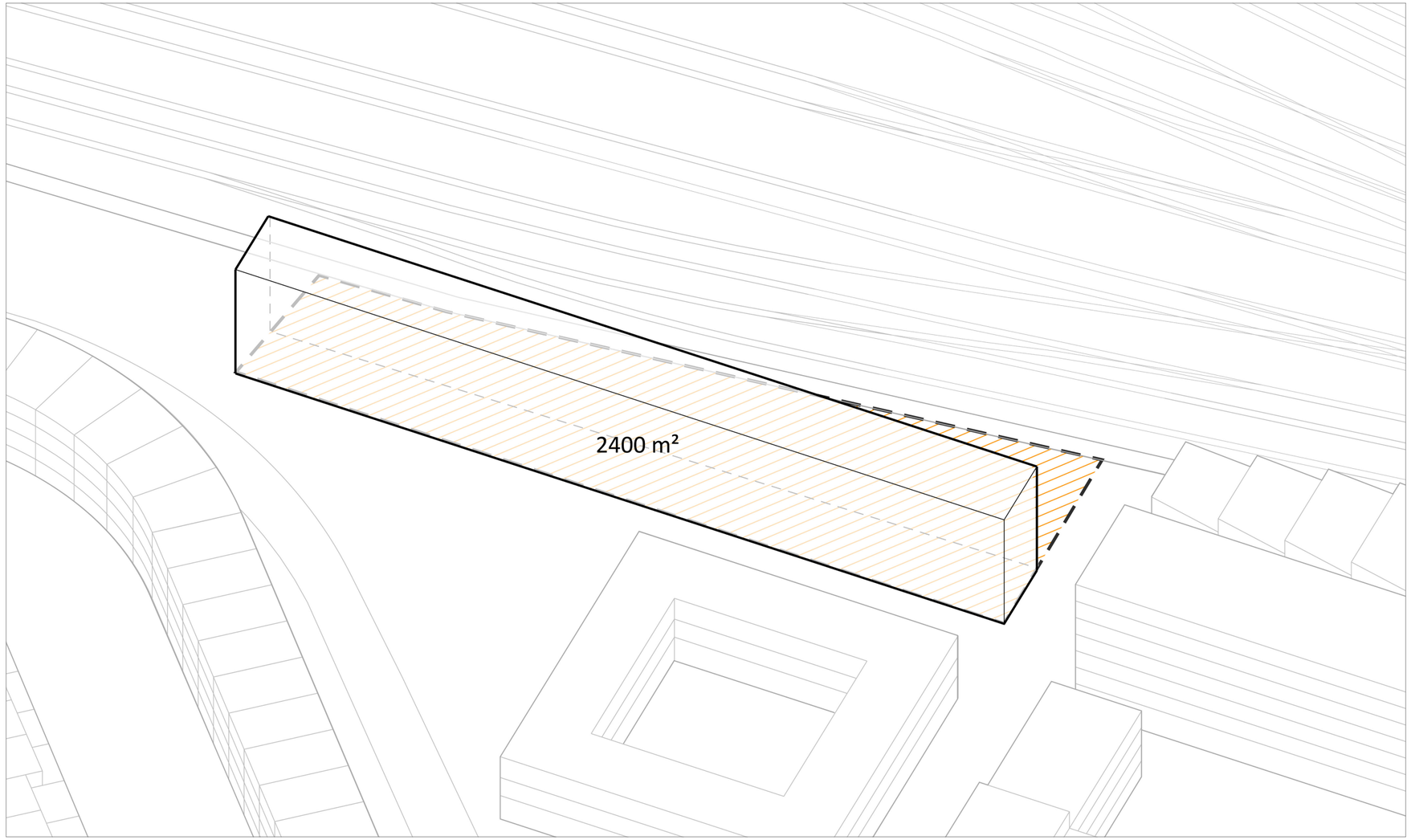
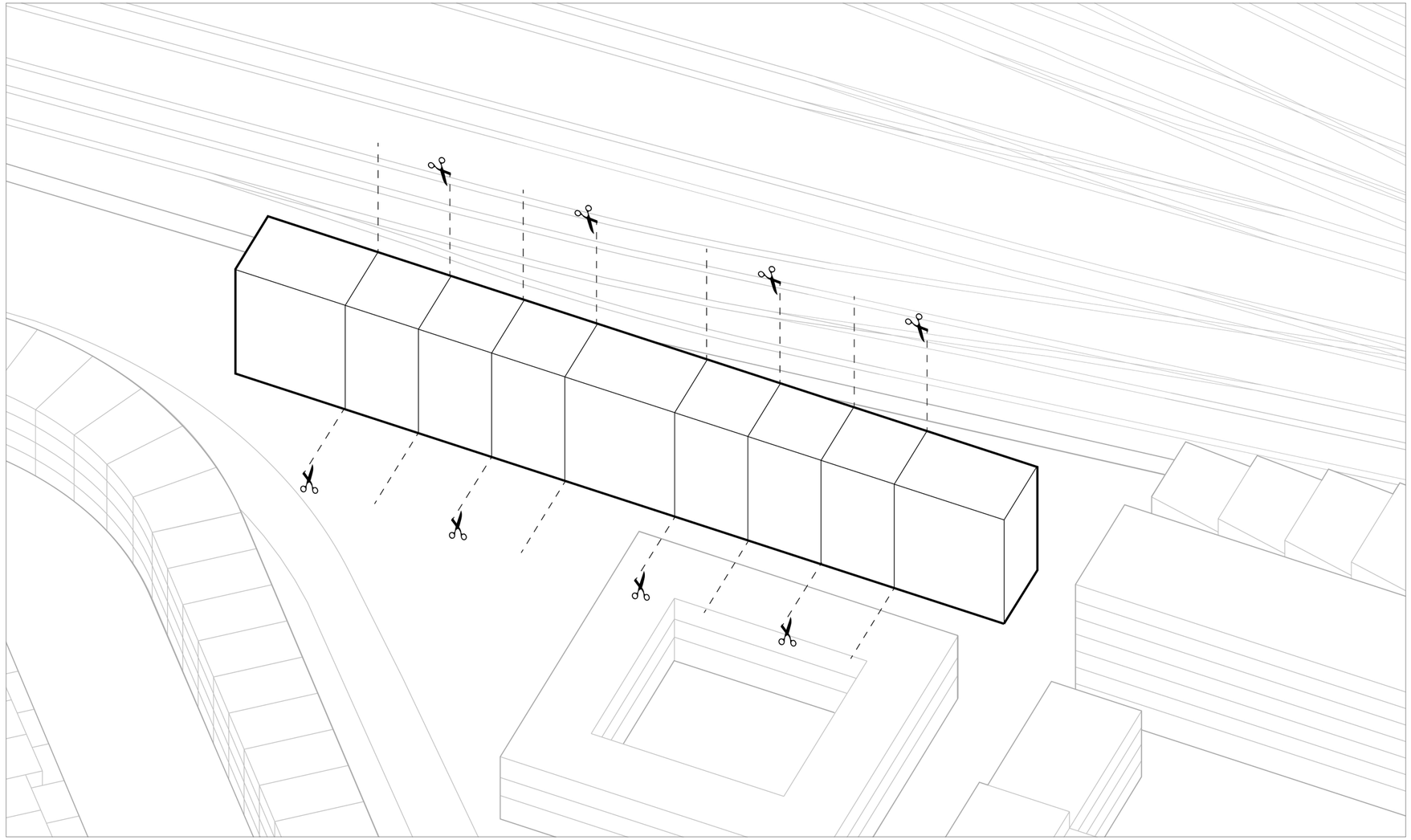
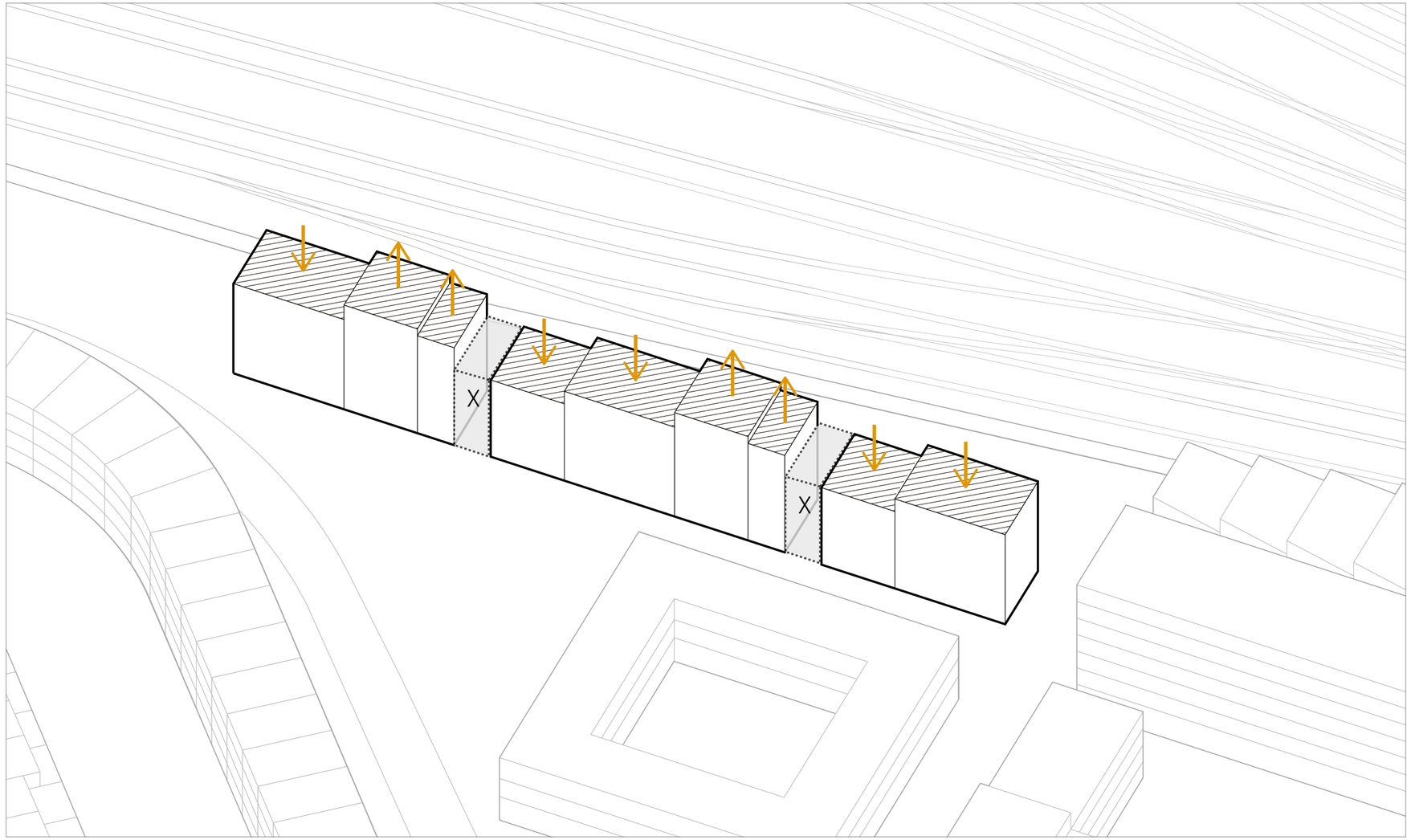
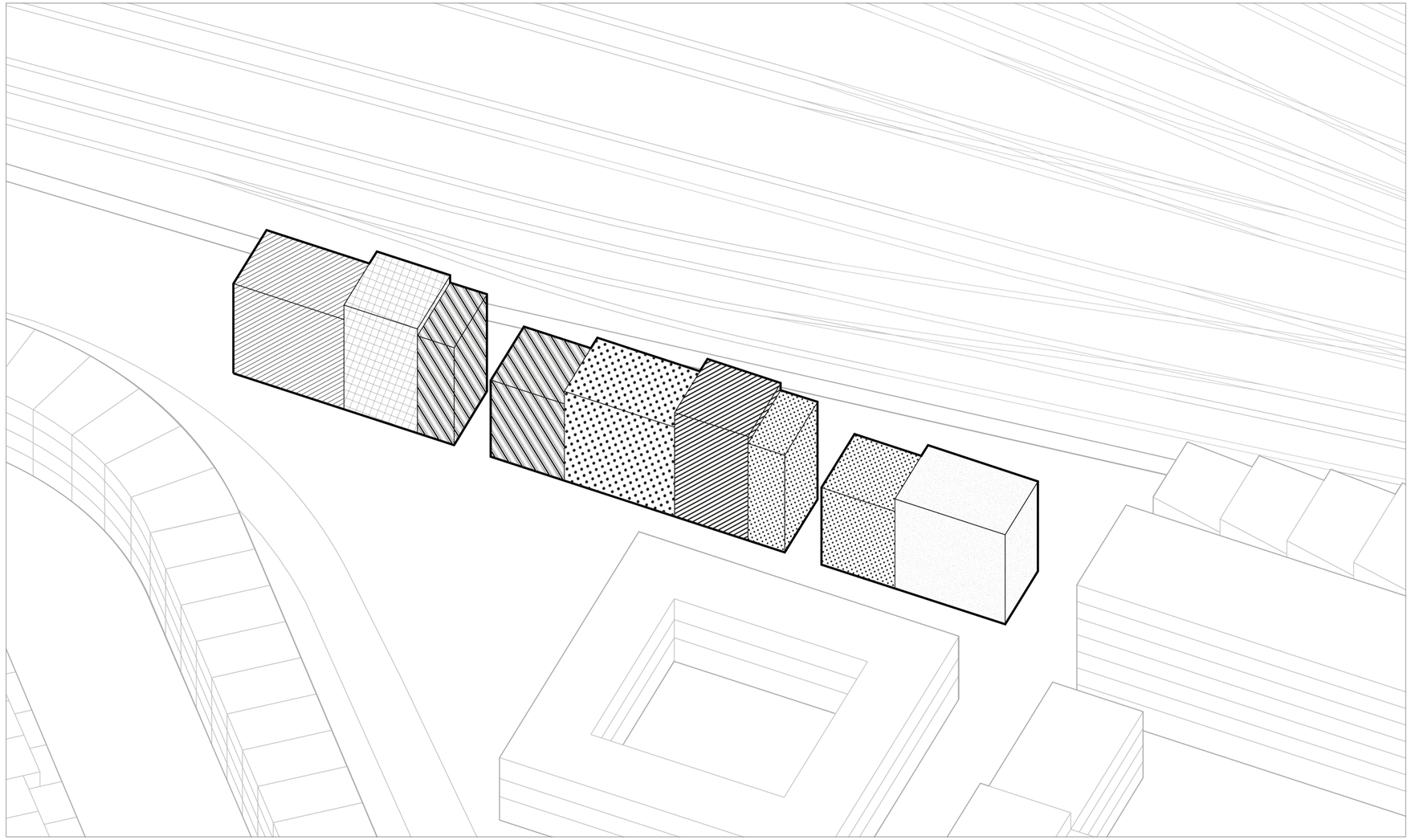

2400 m²



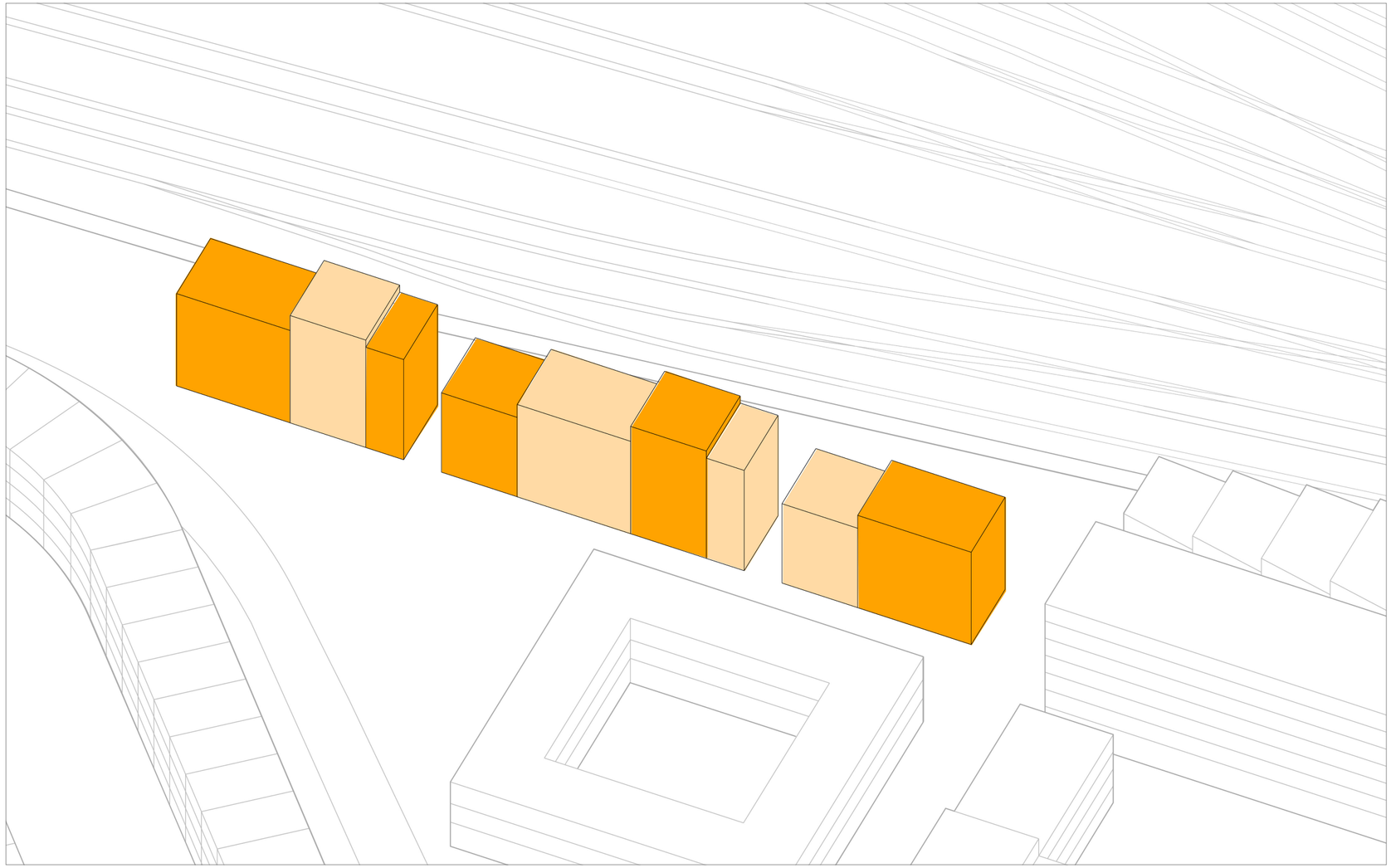

X
X



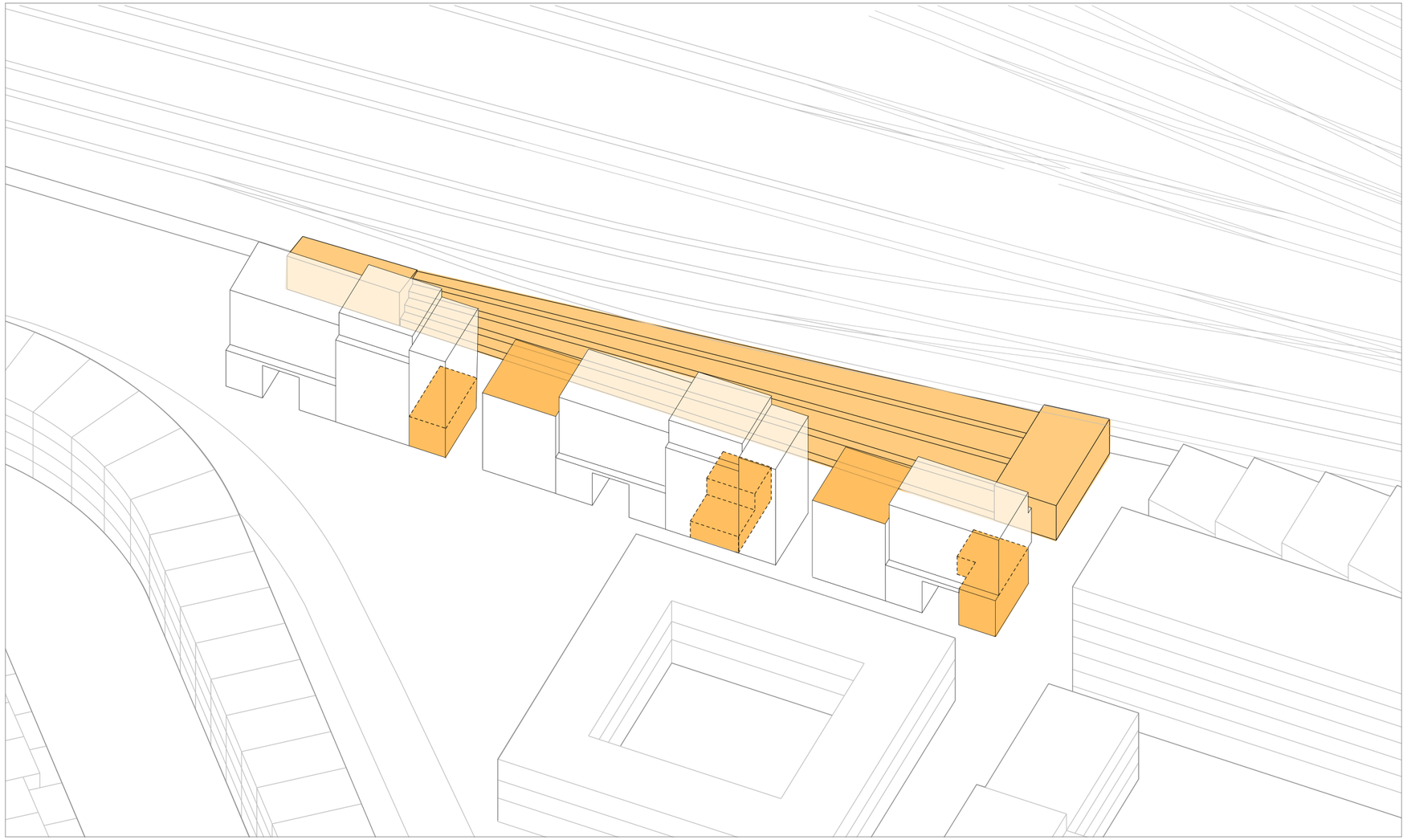
Mix of Tenures

Ownership

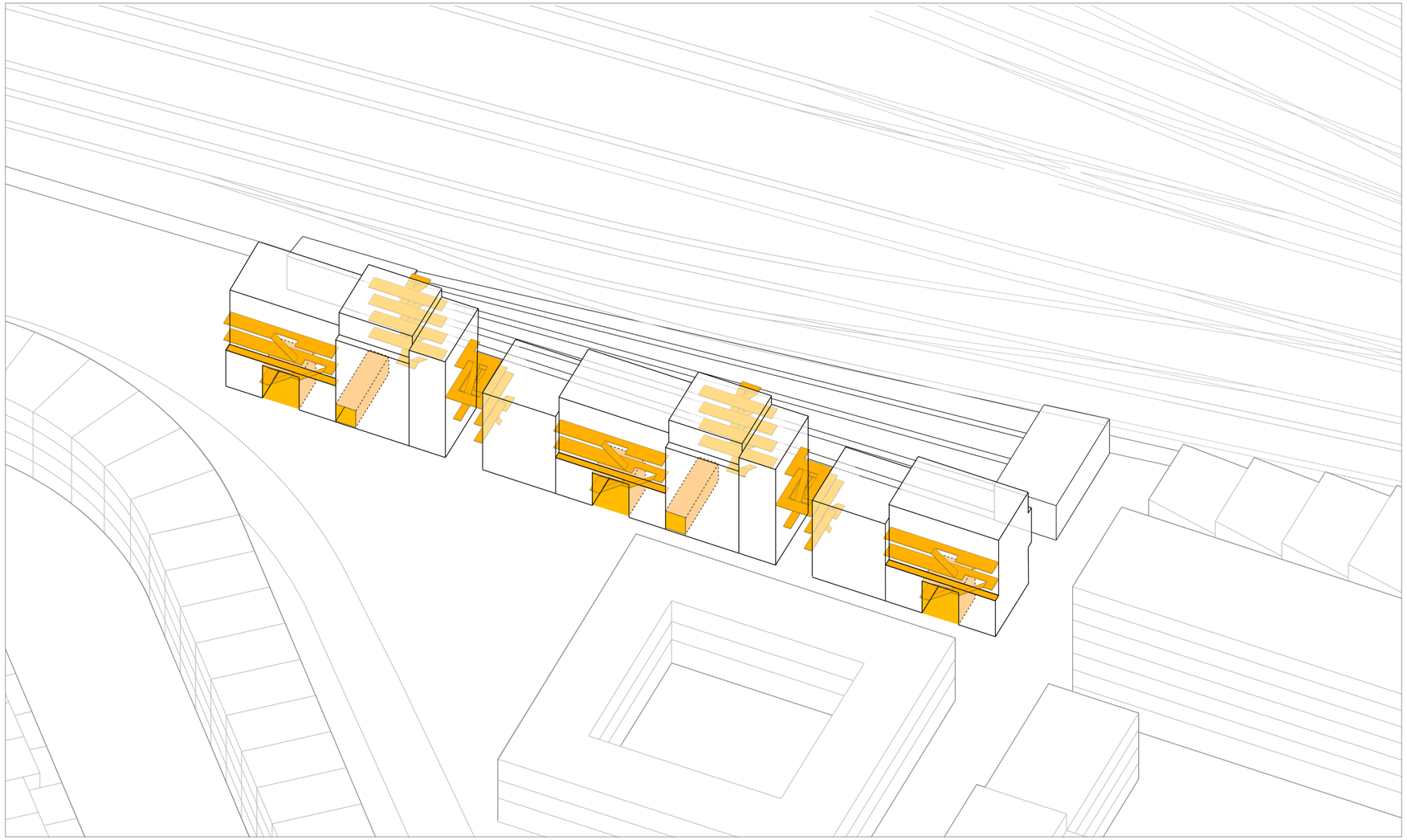
Cooperative housing



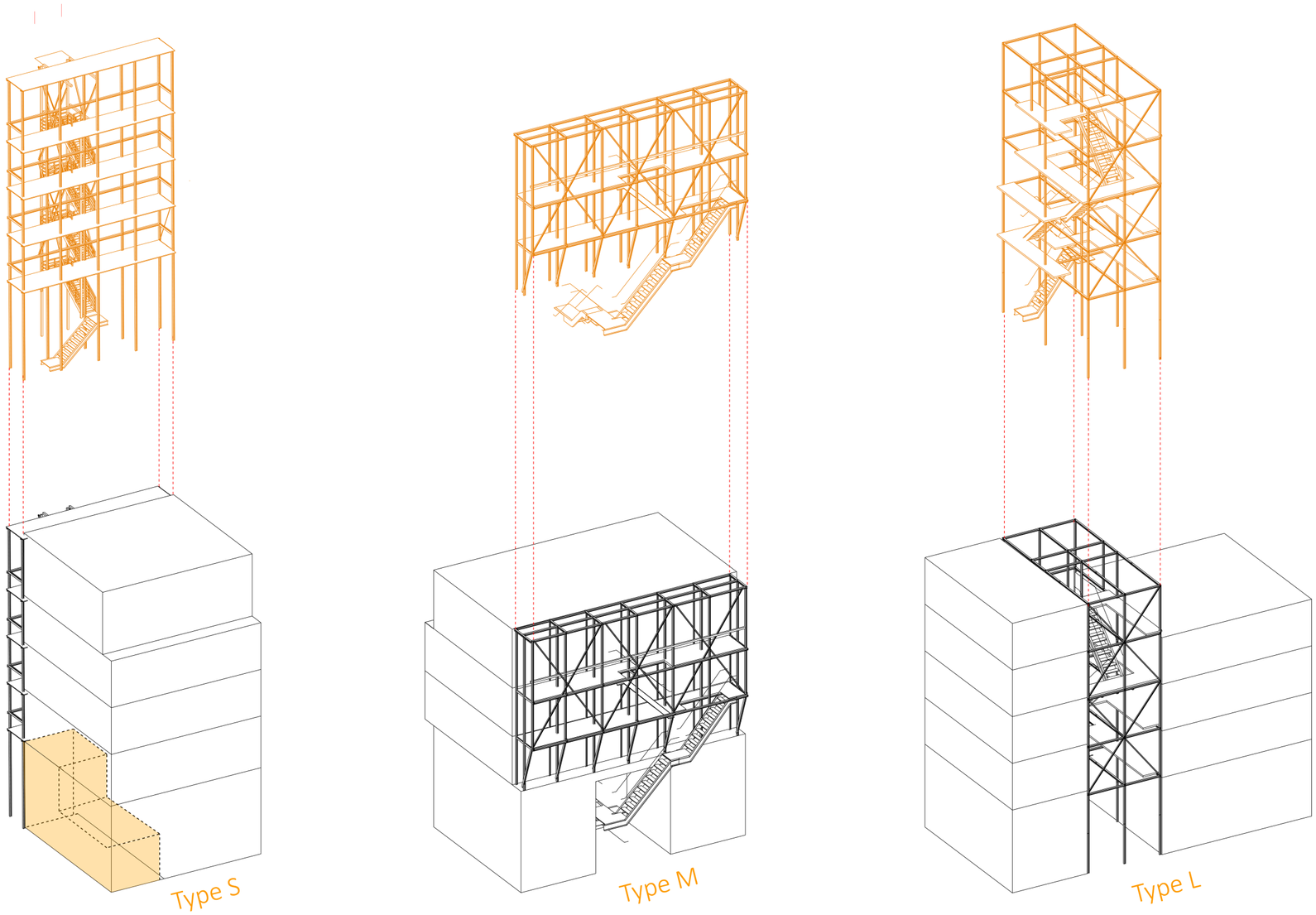
Shared Space



Circulation Space



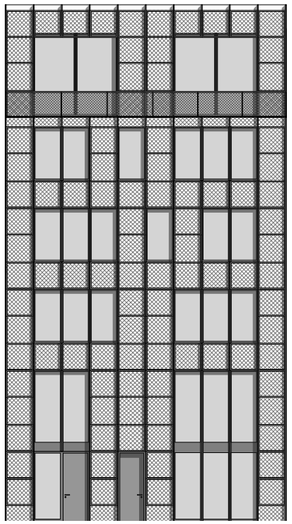
Typologies & Circulation

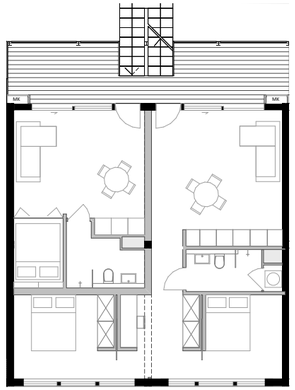


Typologies

HOUSE S

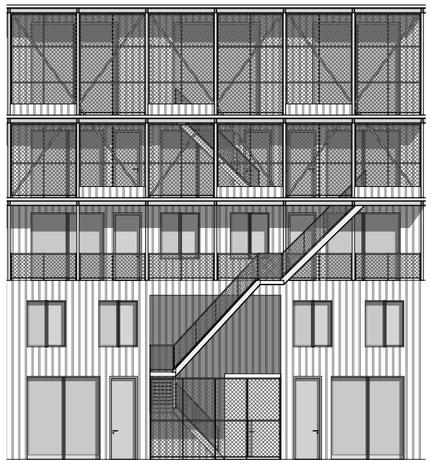
Hybrid

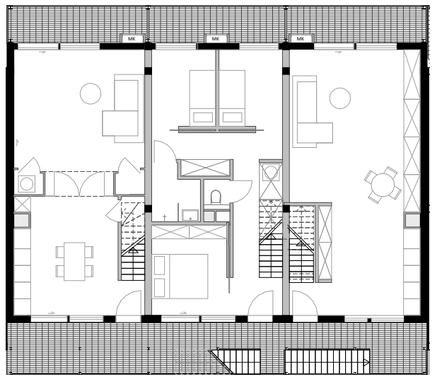




HOUSE M

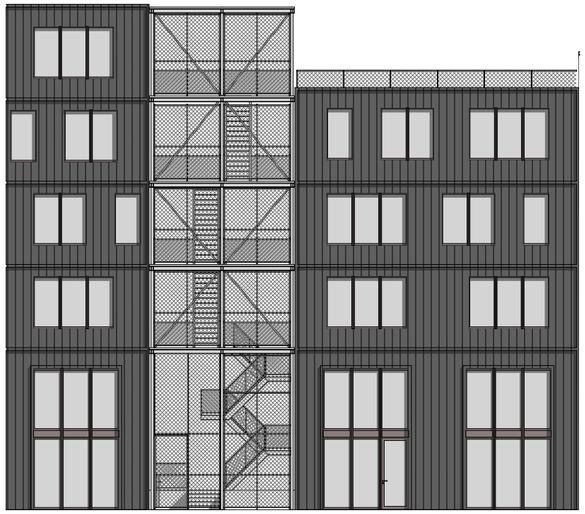
Family Type

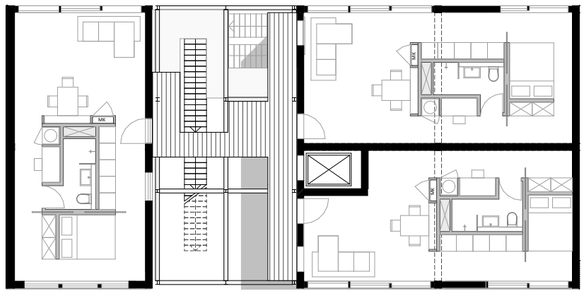




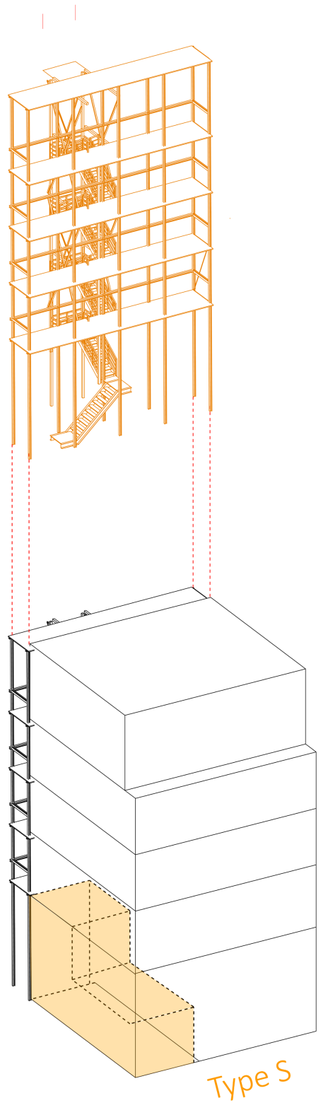
HOUSE L

Solo Living

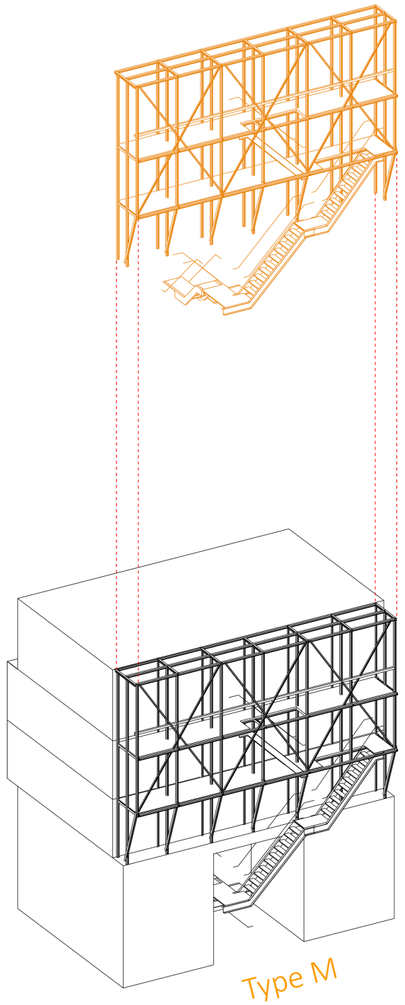




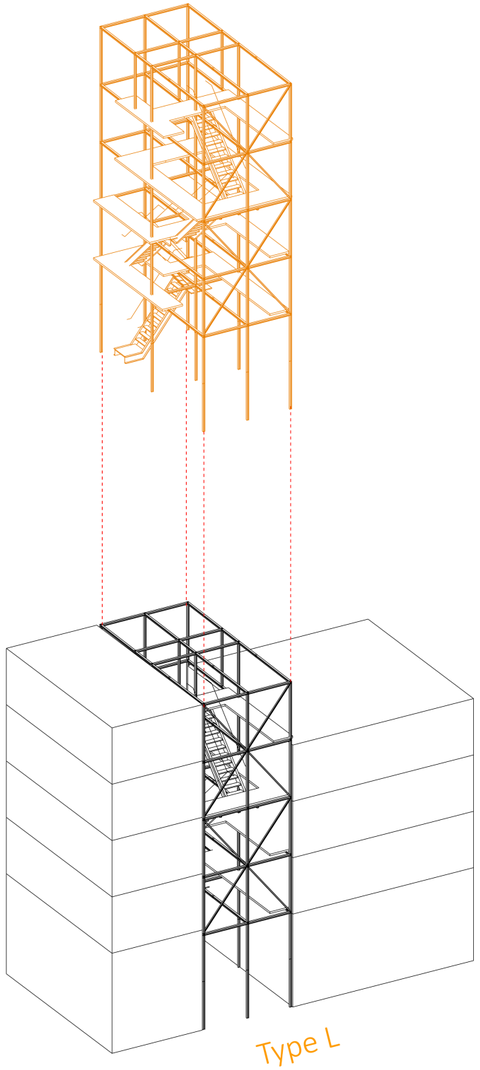
House S

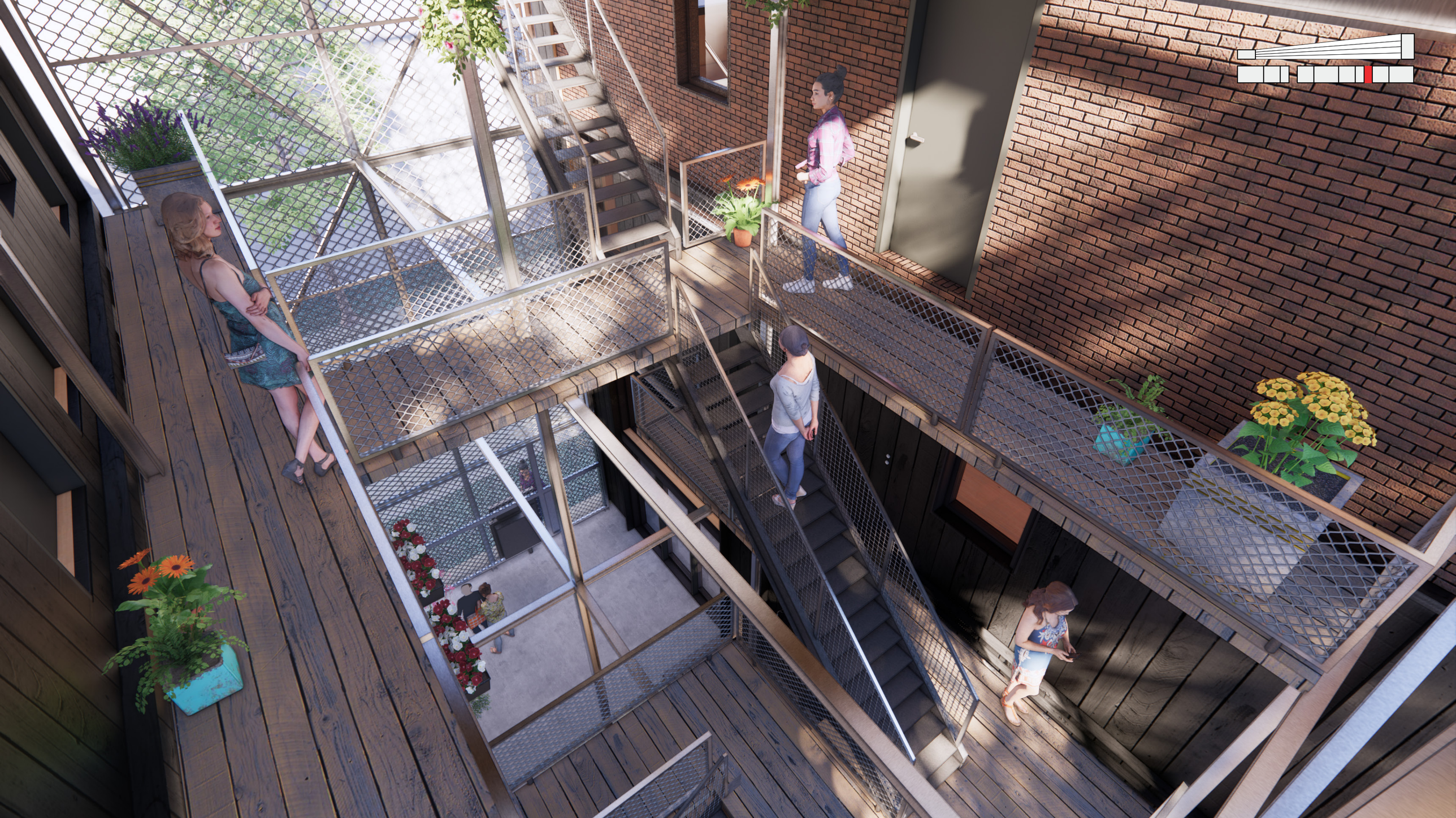


House M

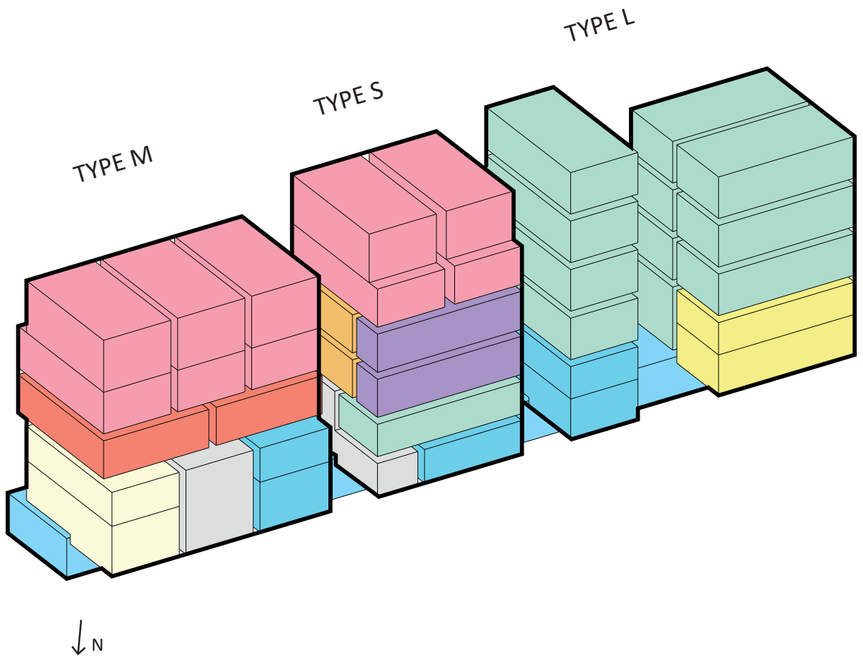


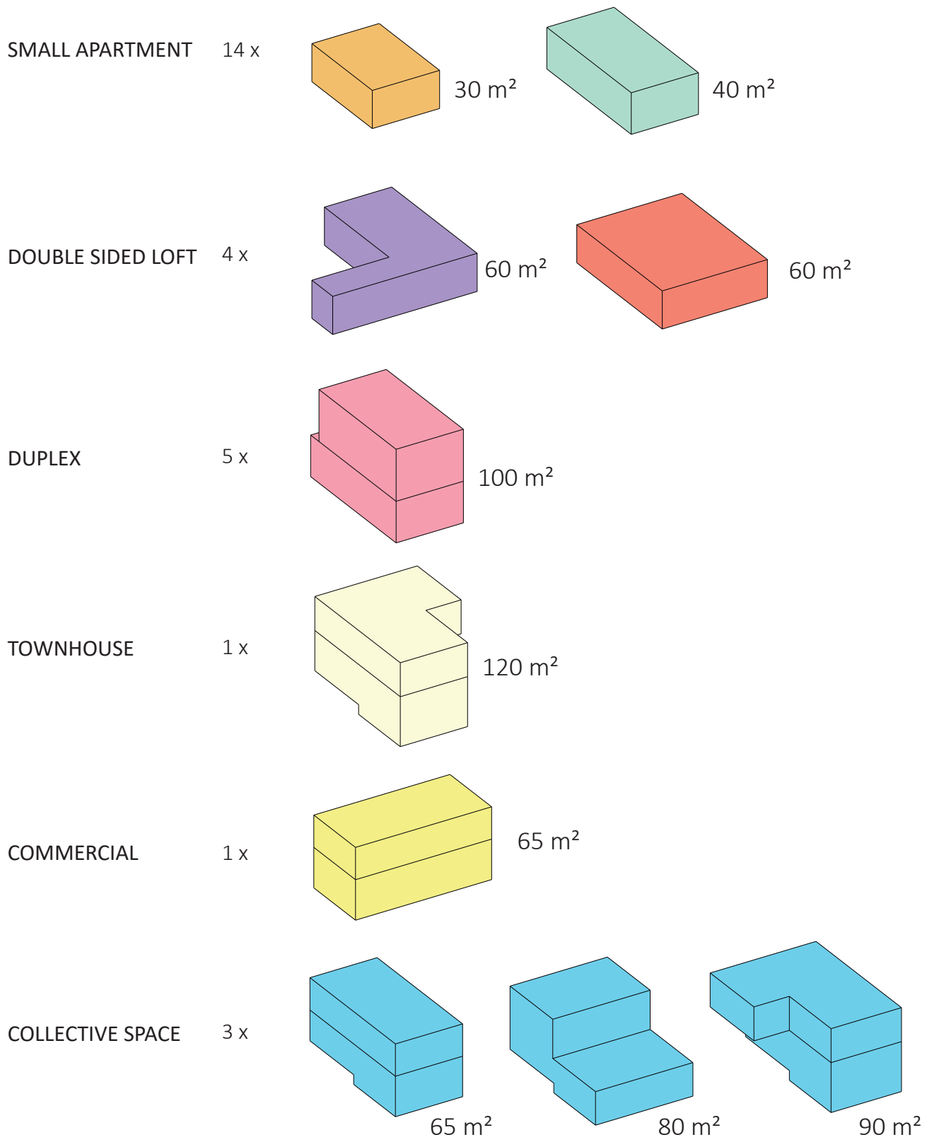
House L



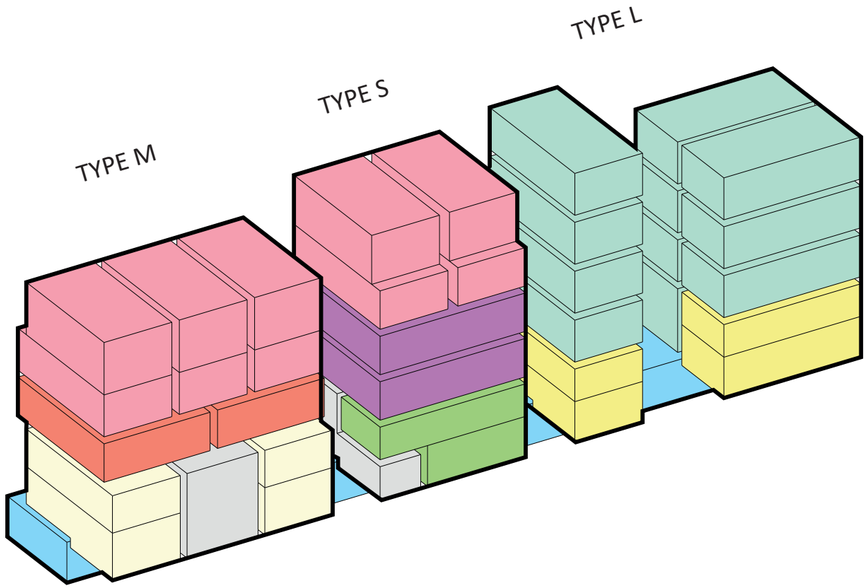


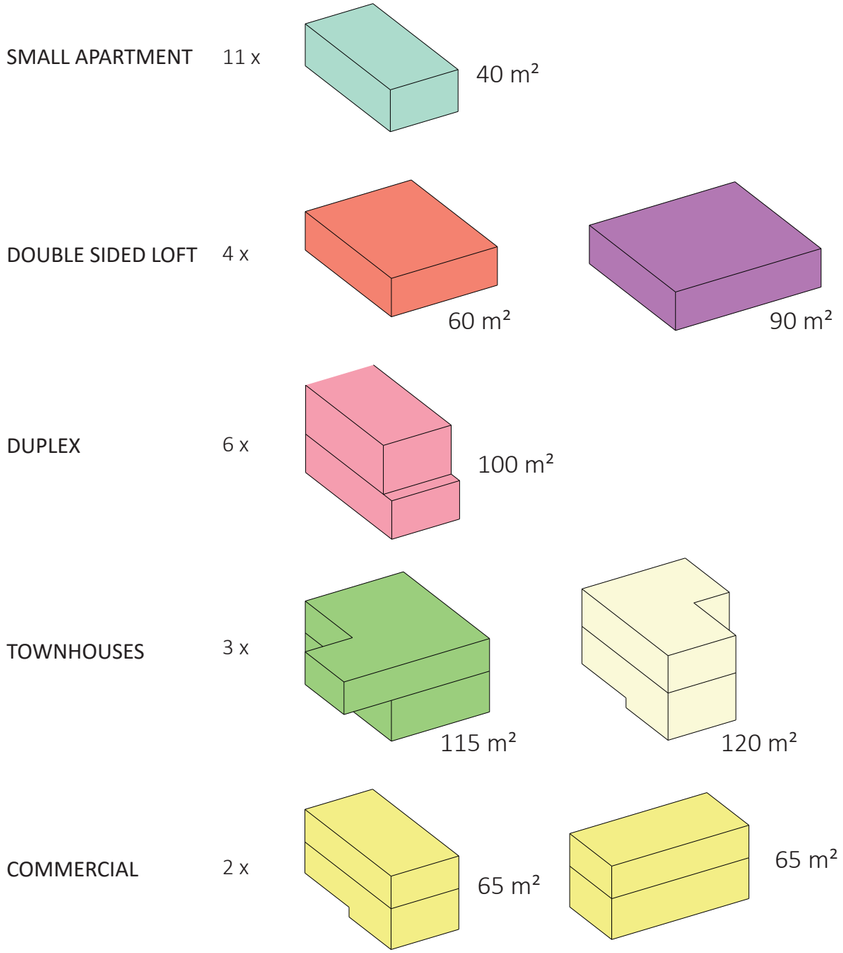
Apartment Typology - Co-op Houses





Apartment Typology - Ownership Houses





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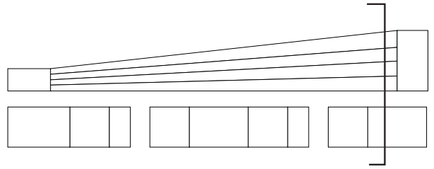
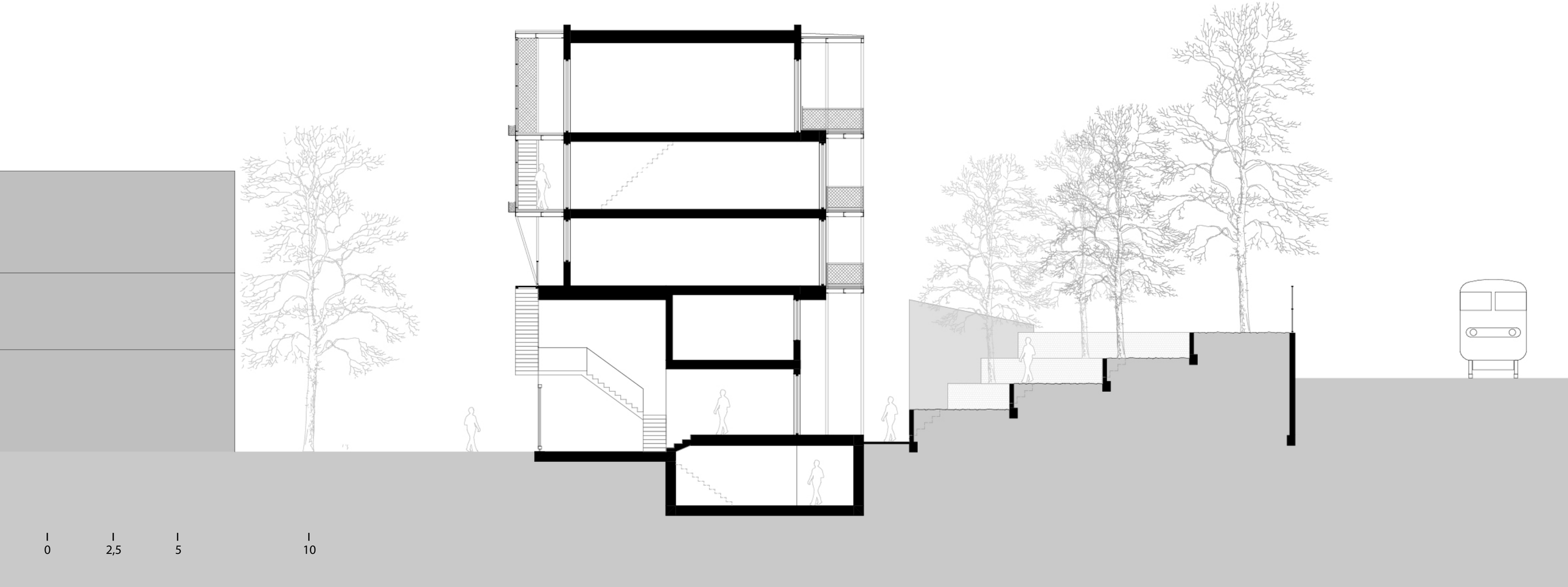
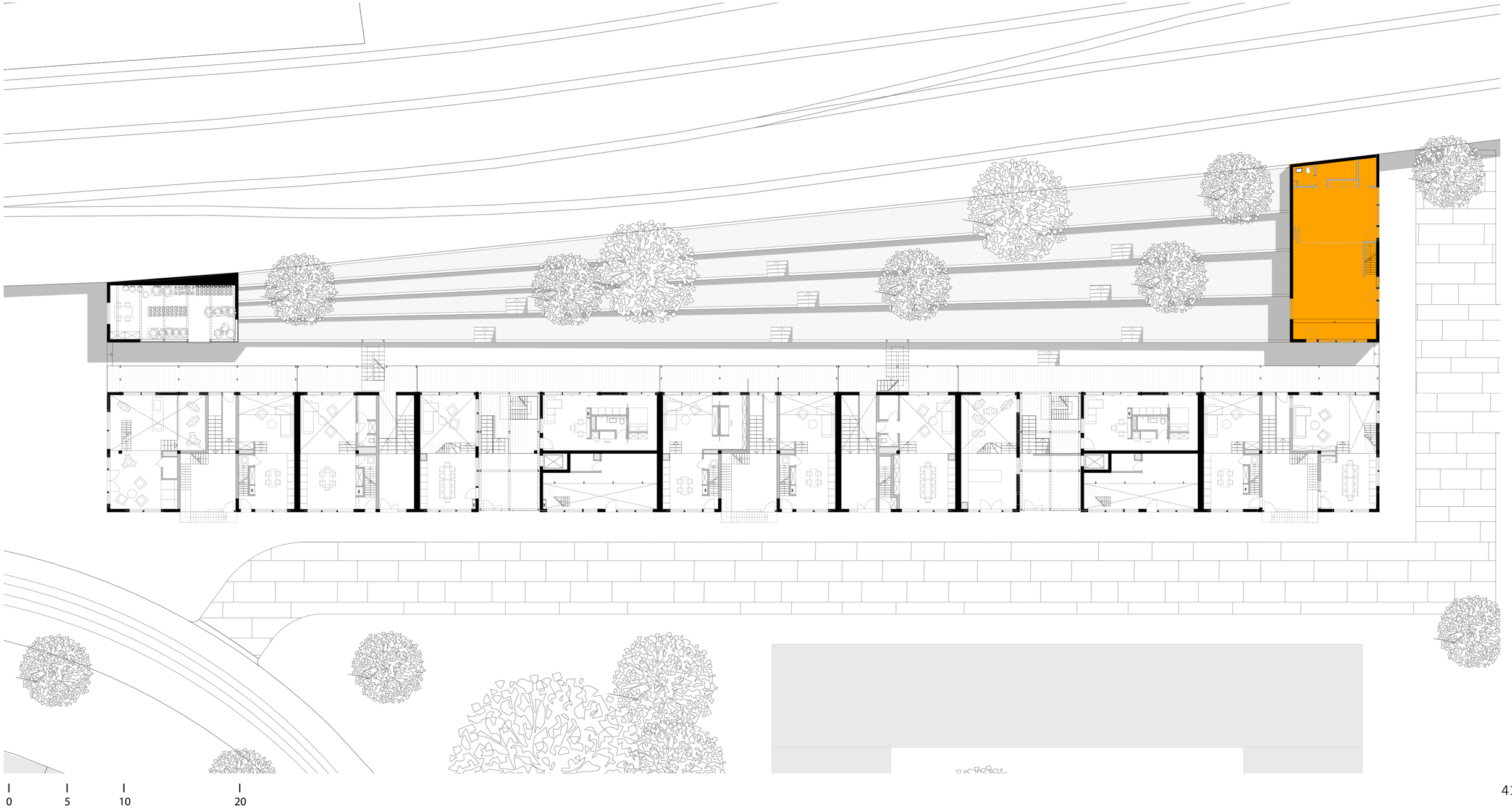
Section House M



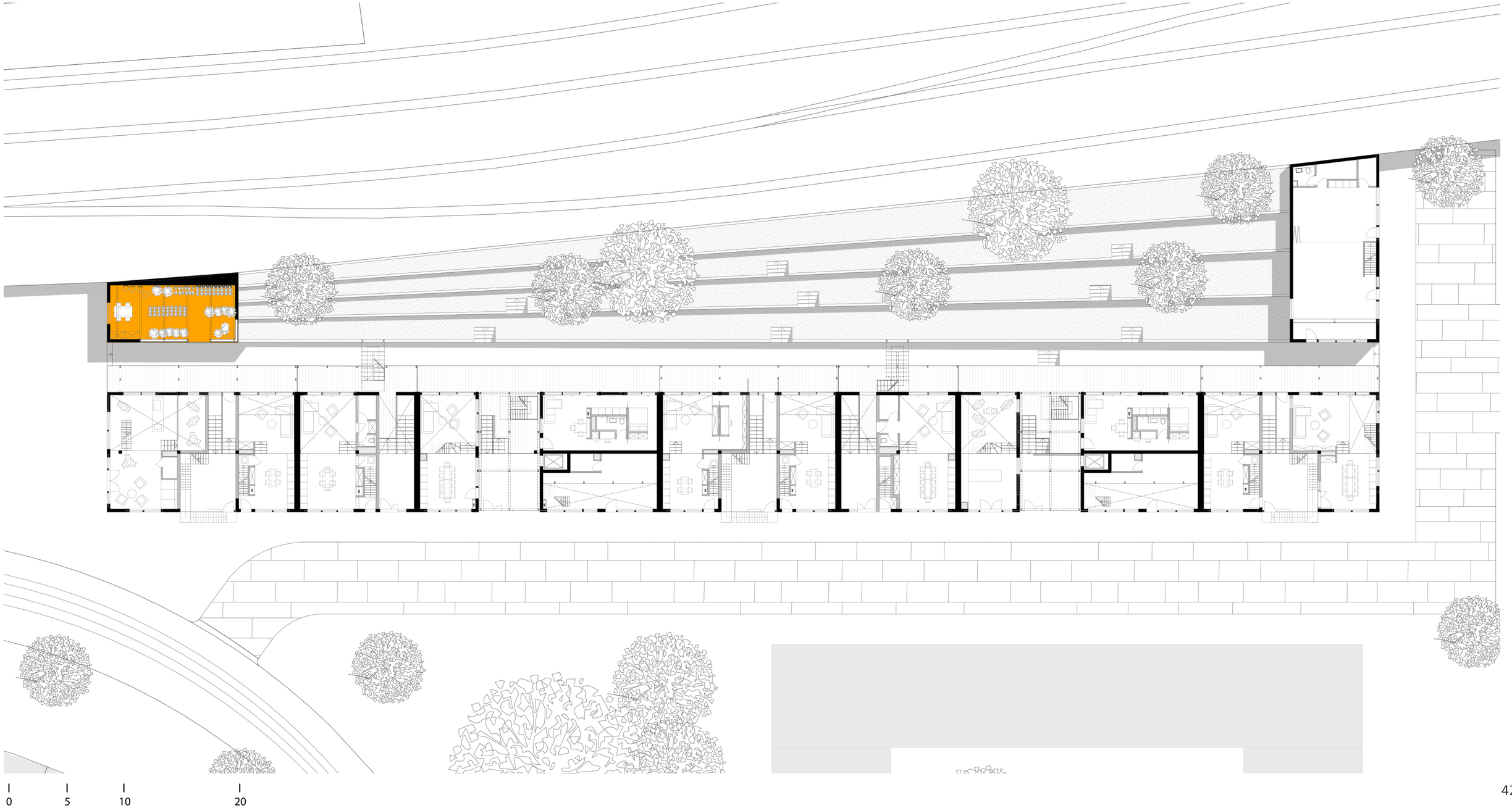


Ground Floor

Ground Floor

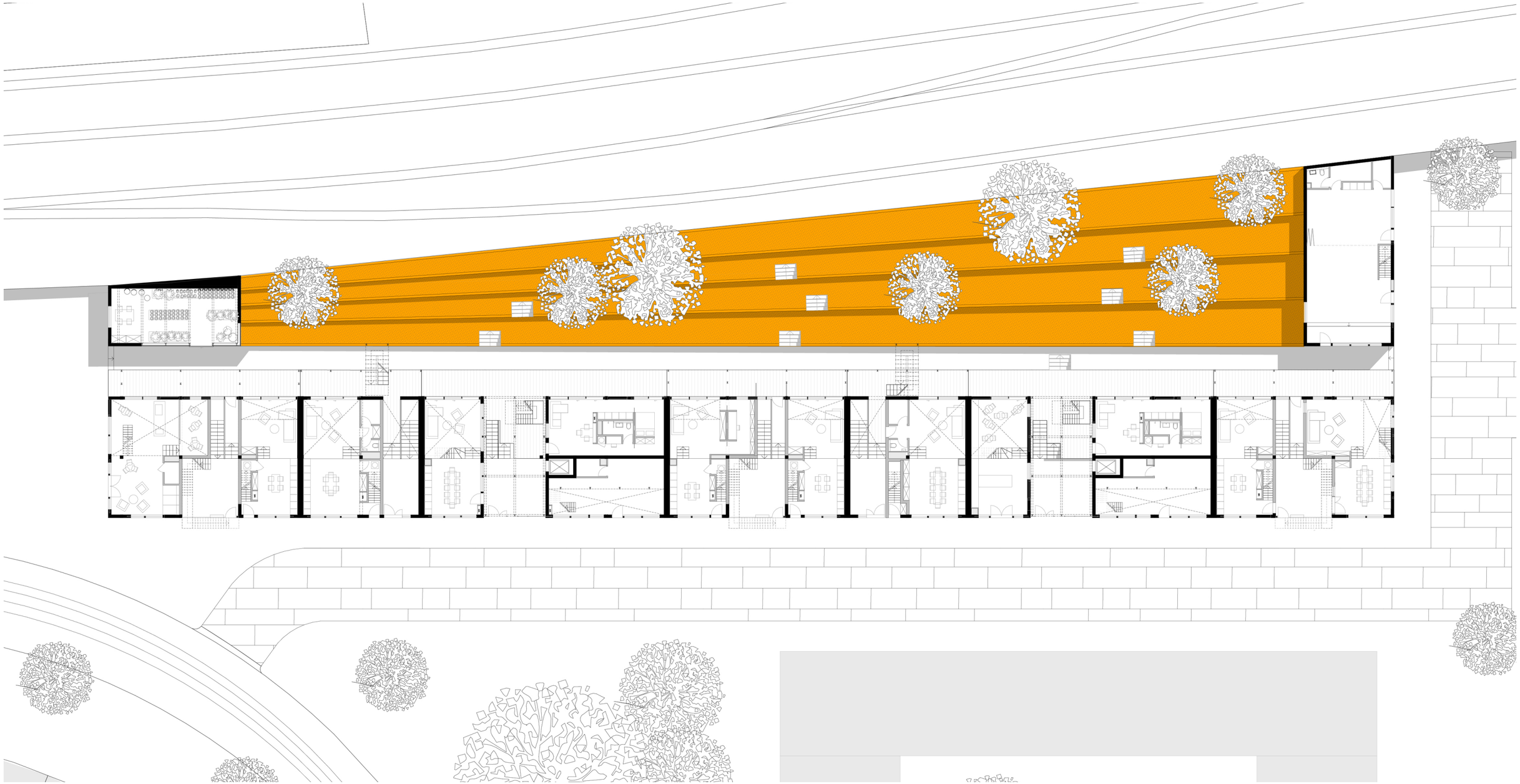


Ground Floor



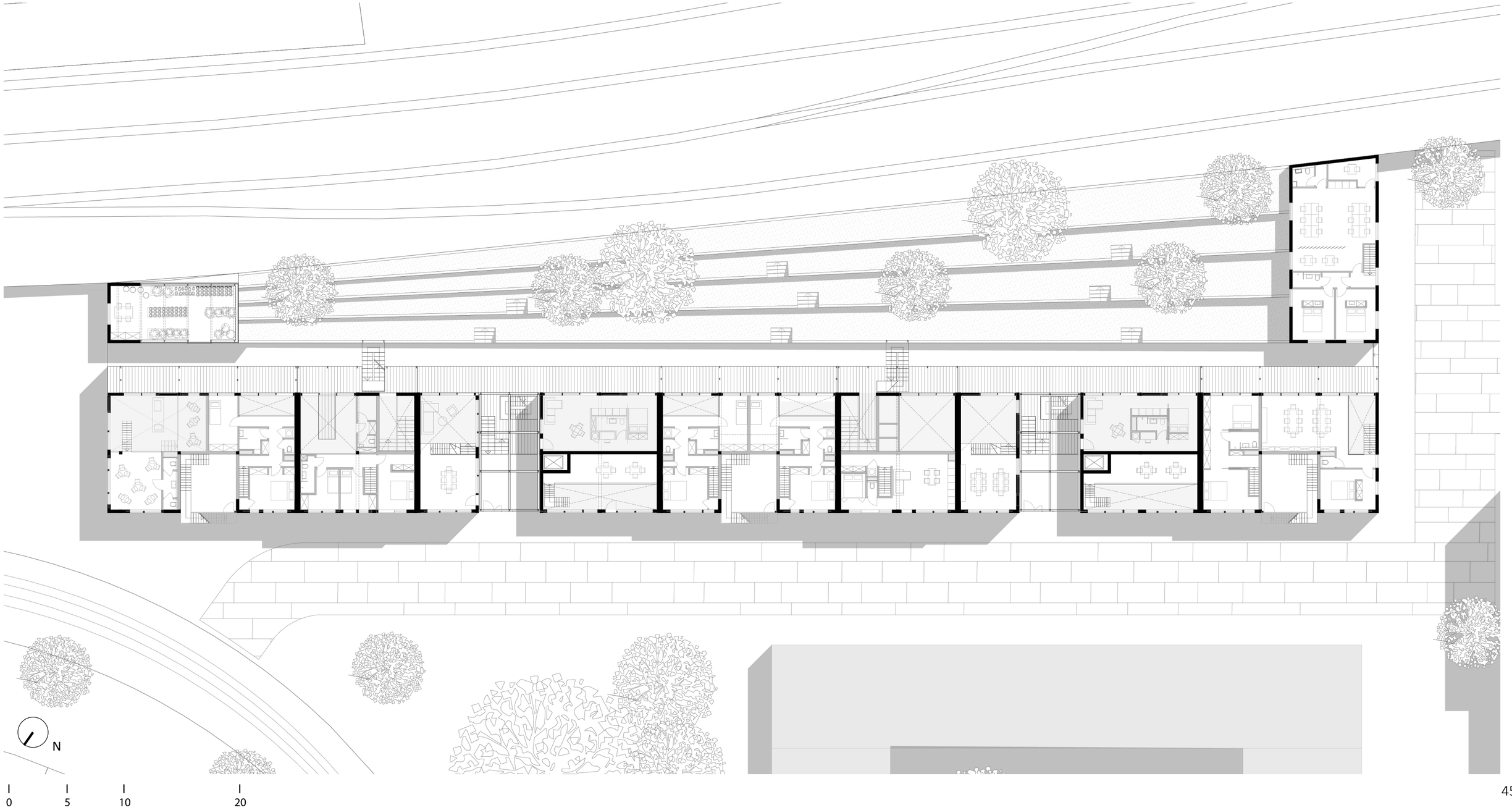
Ground Floor

Ground Floor

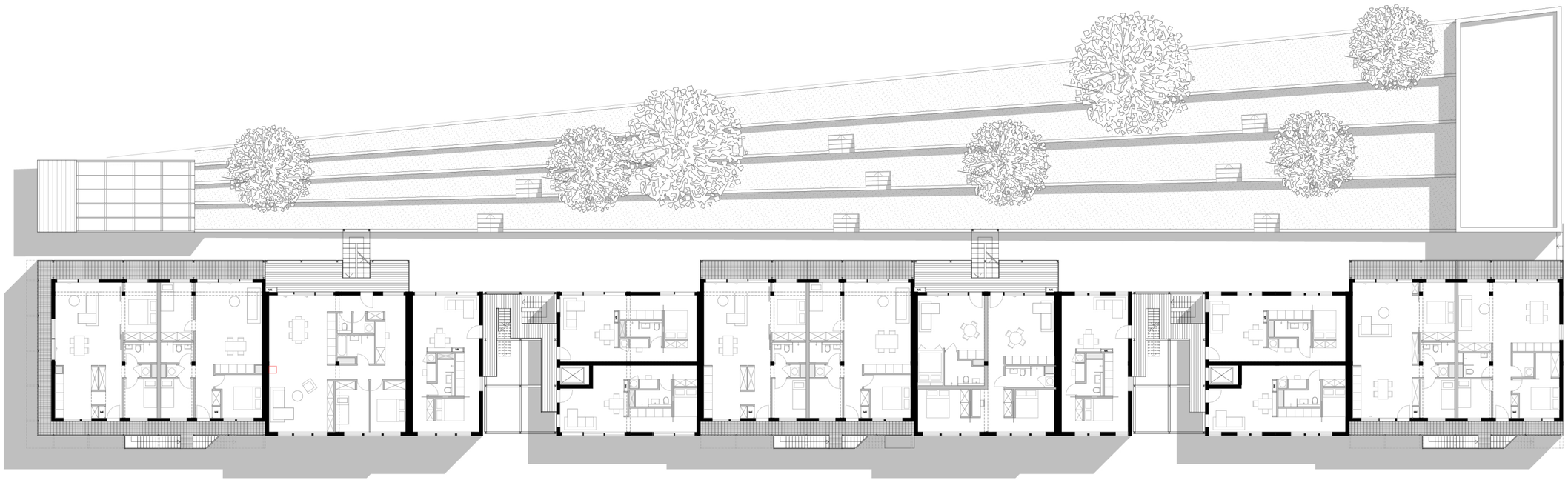


0 5 10 20

Mezzanine/1st Floor



2nd Floor



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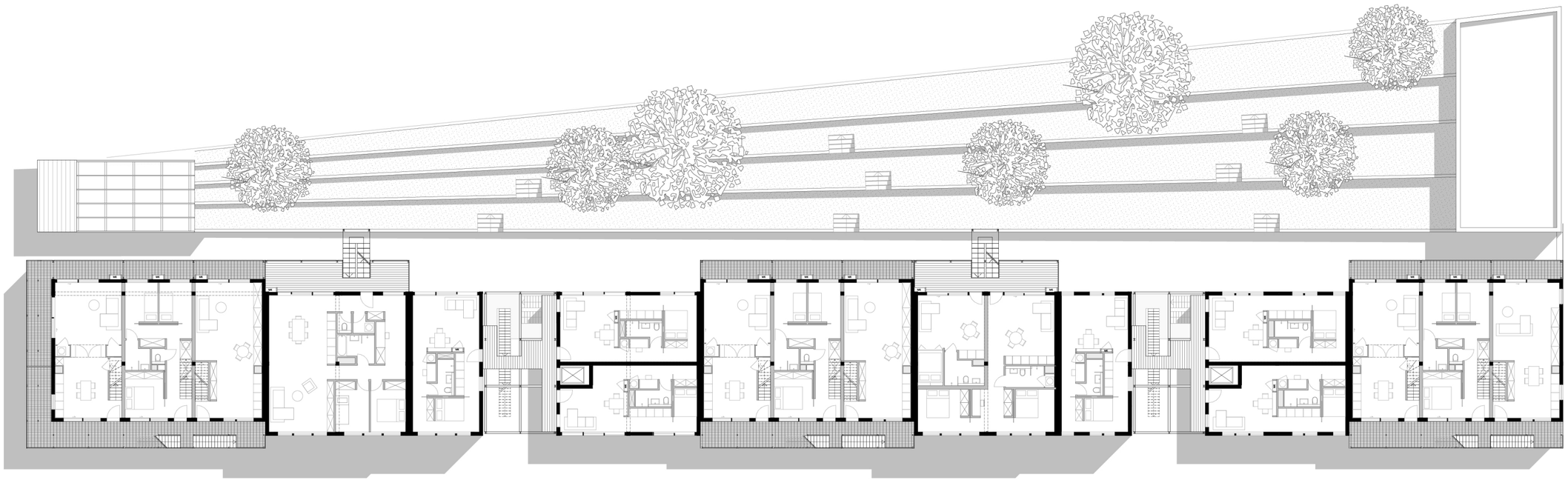
3rd Floor



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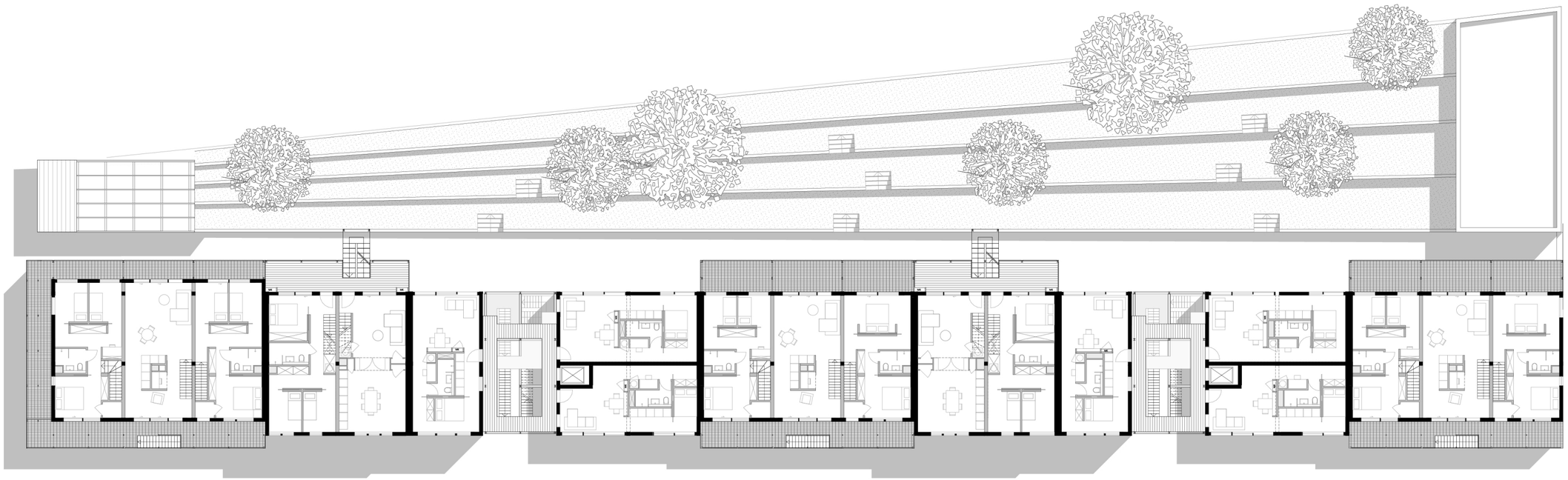
4th Floor



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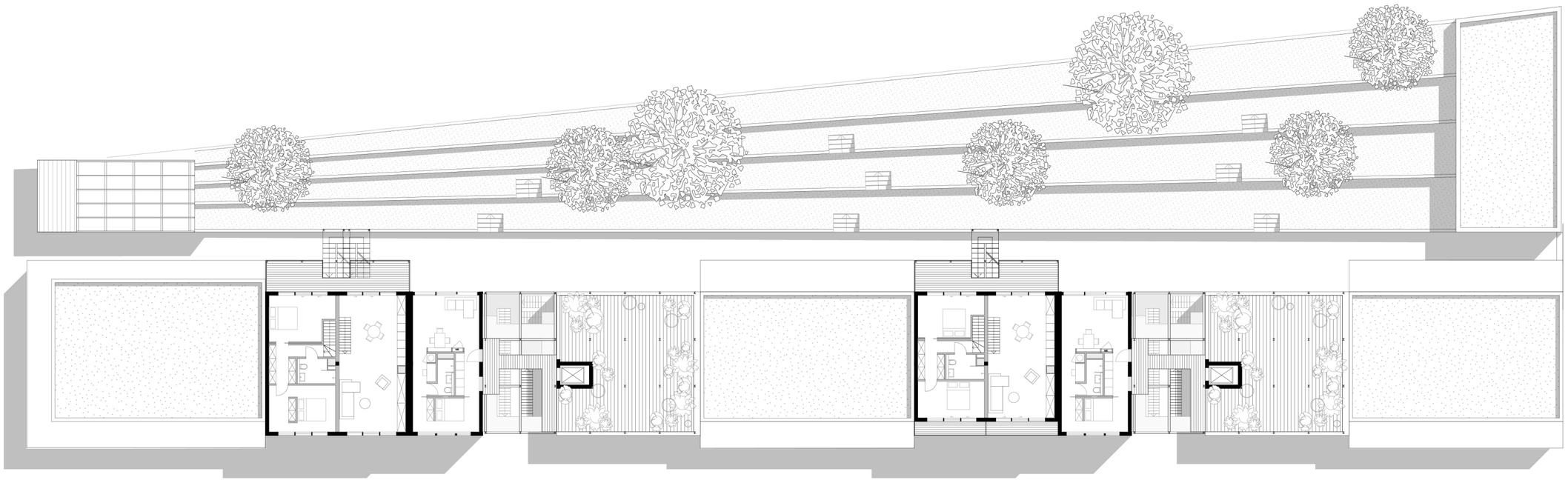
5th Floor



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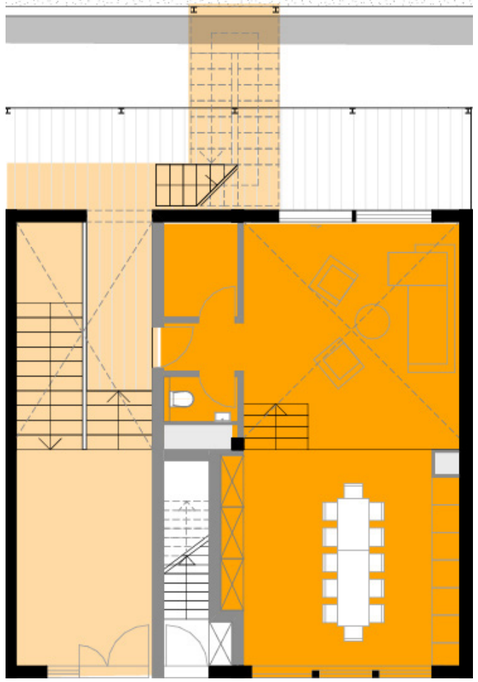
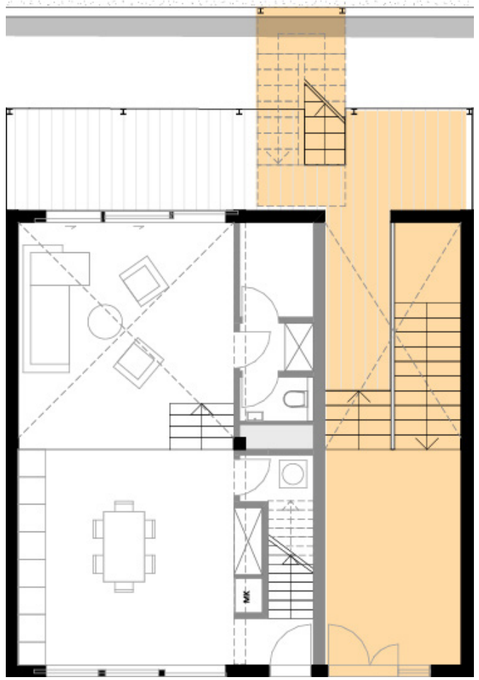
0 5 10 20

House S

Cooperative

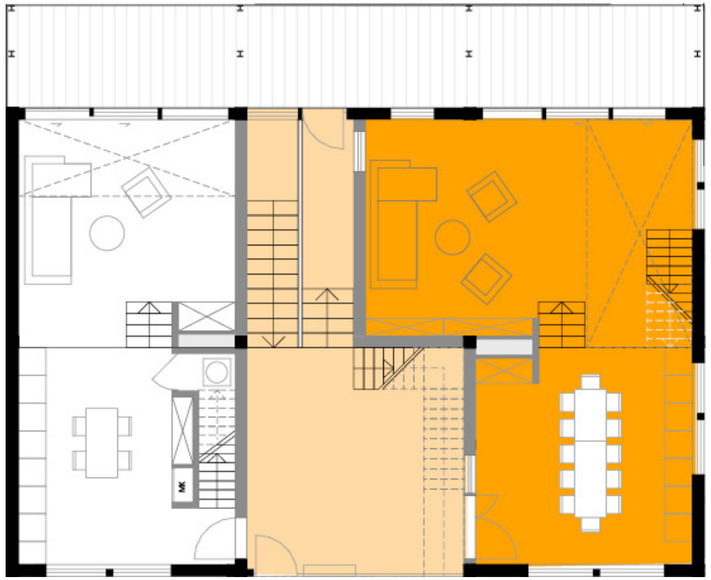


Ownership

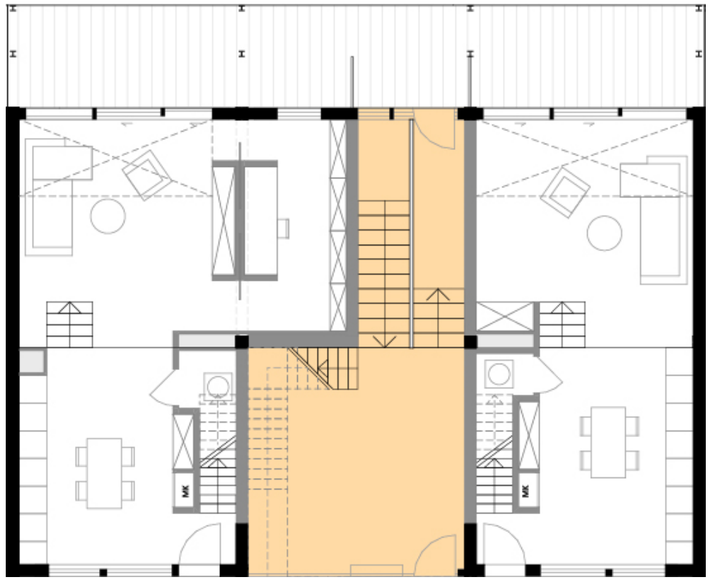


House M

Cooperative

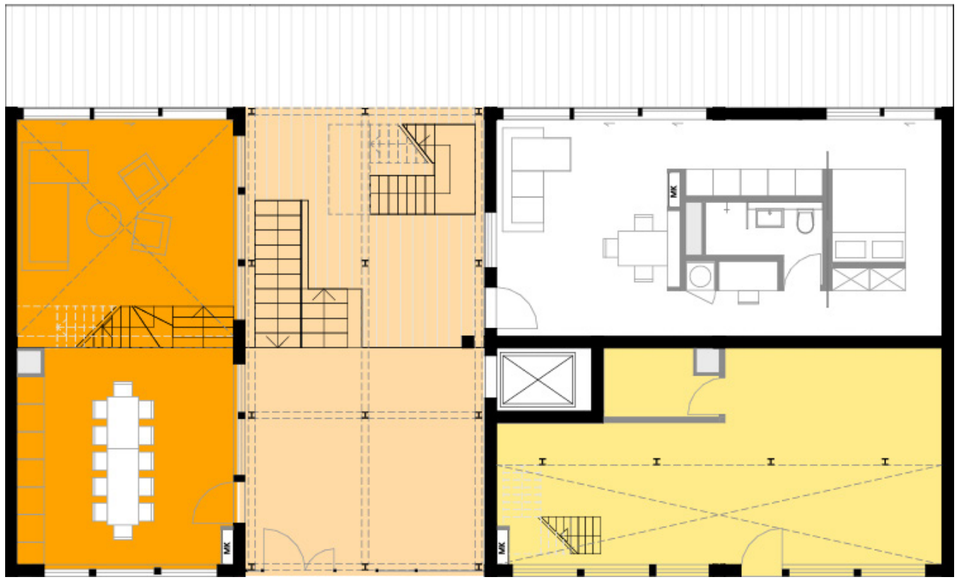


Ownership



House L

Cooperative



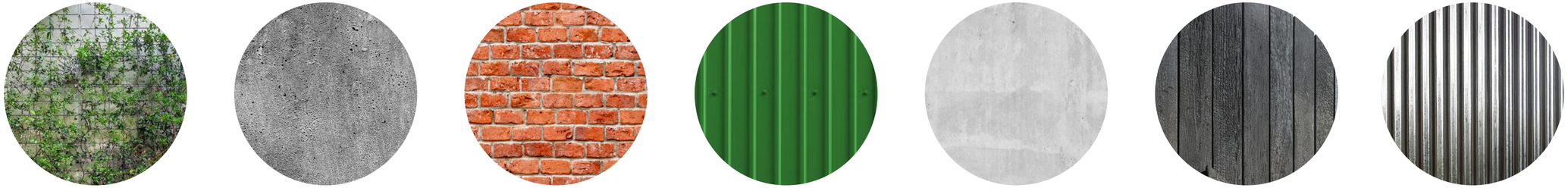
Ownership

N

Street Elevation

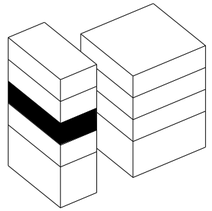
0 5 10 20

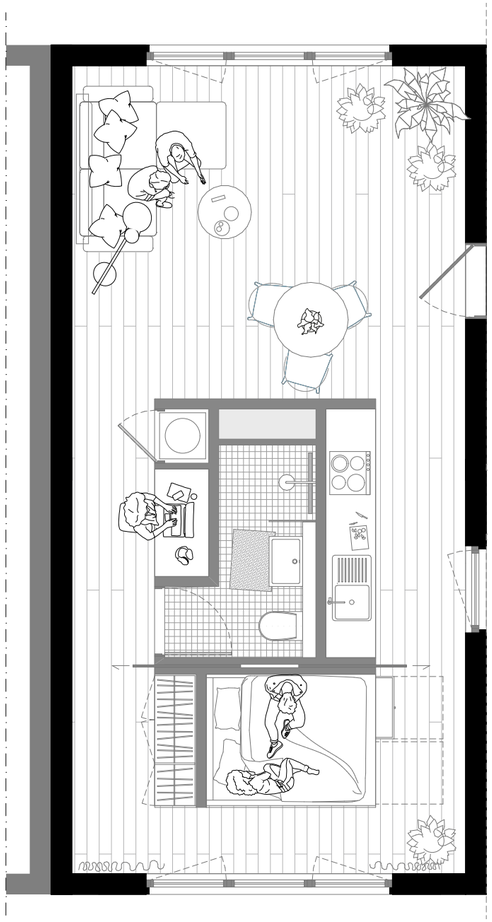
Street Elevation



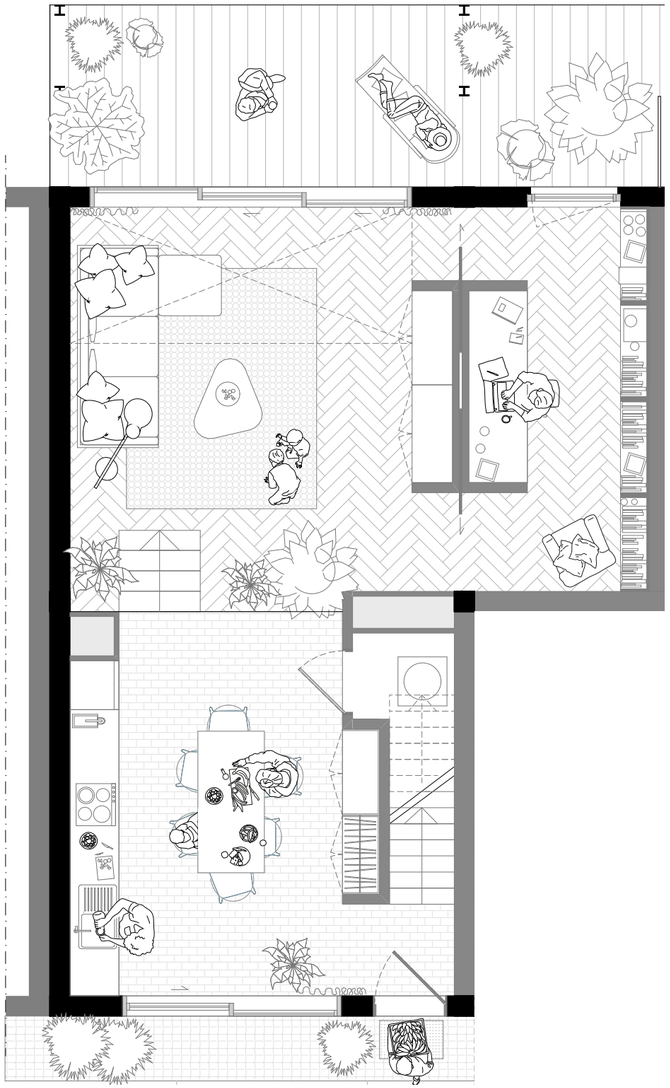
0 5 10 20

House L - Solo/Couple apartment

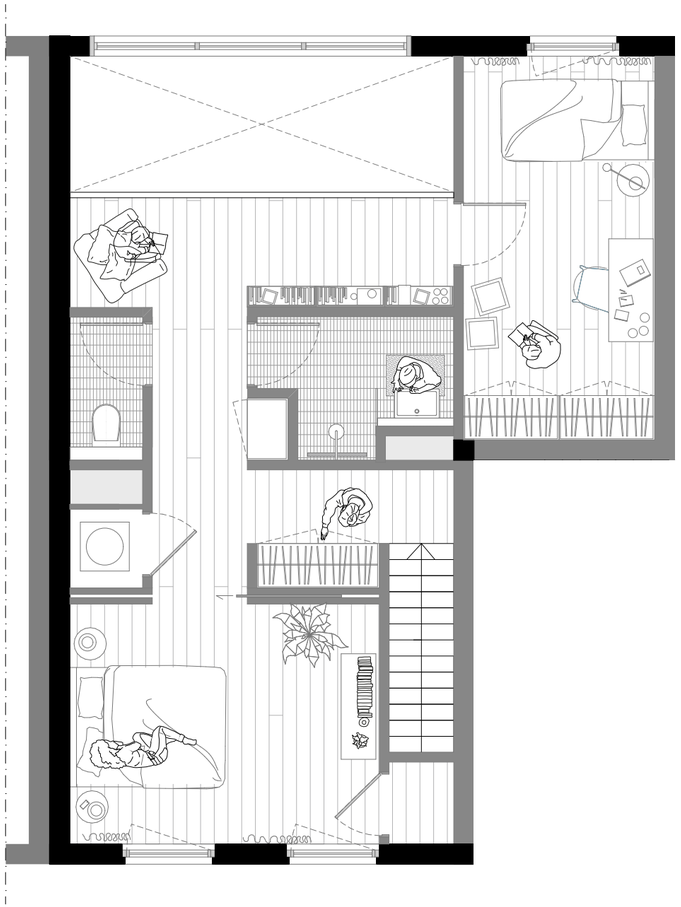




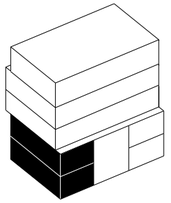
House M - Townhouse apartment



Groundfloor



1st floor



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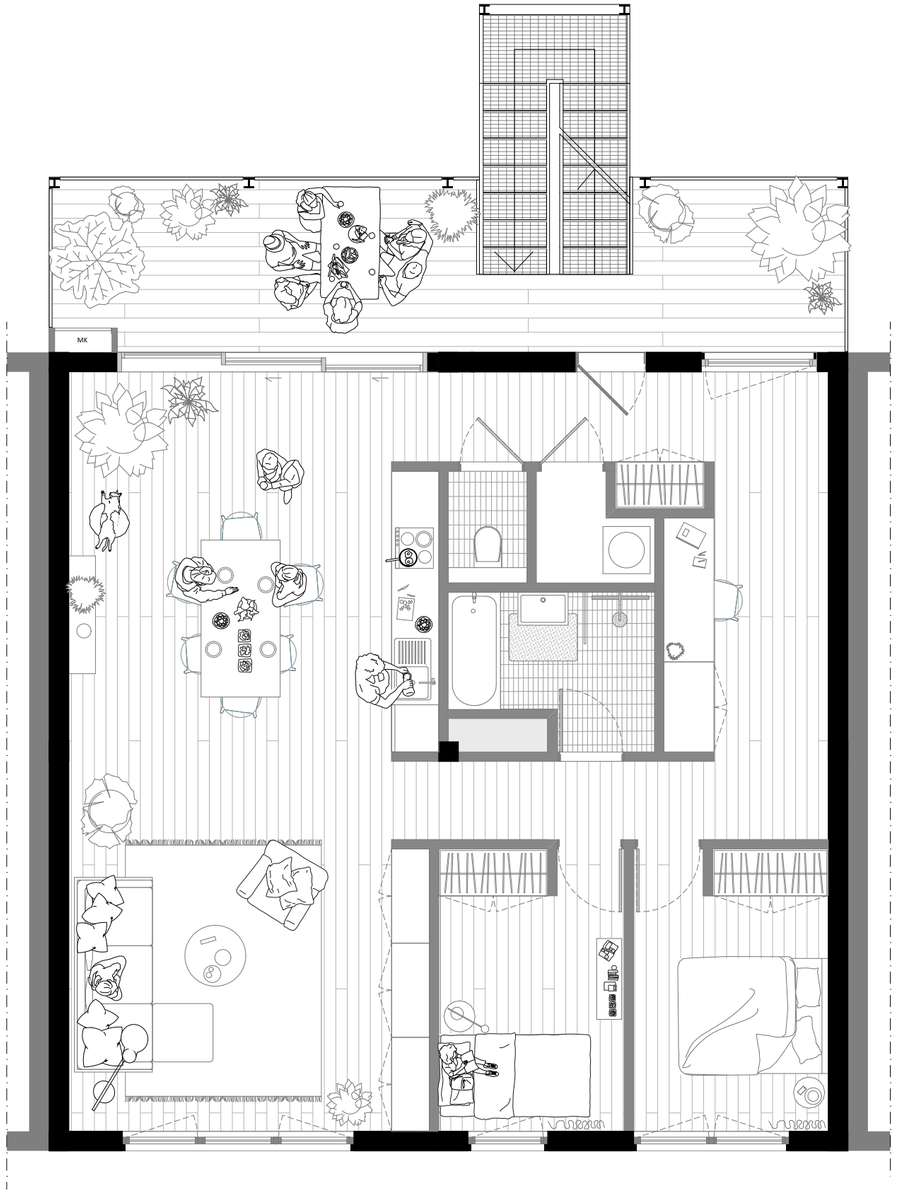
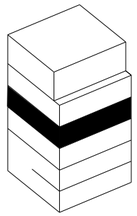
A+ Architecture

House S - Loft apartment

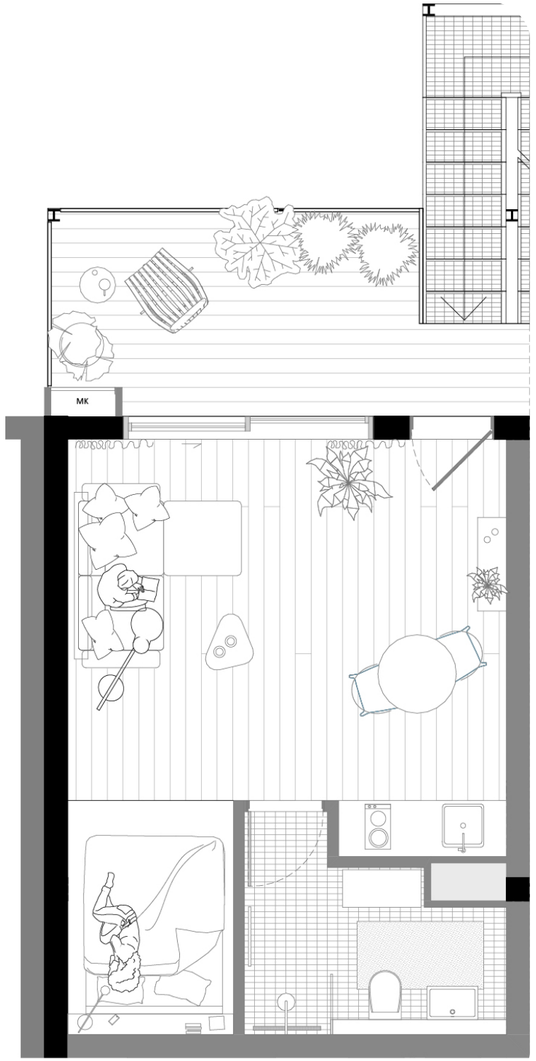


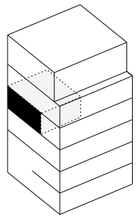


N

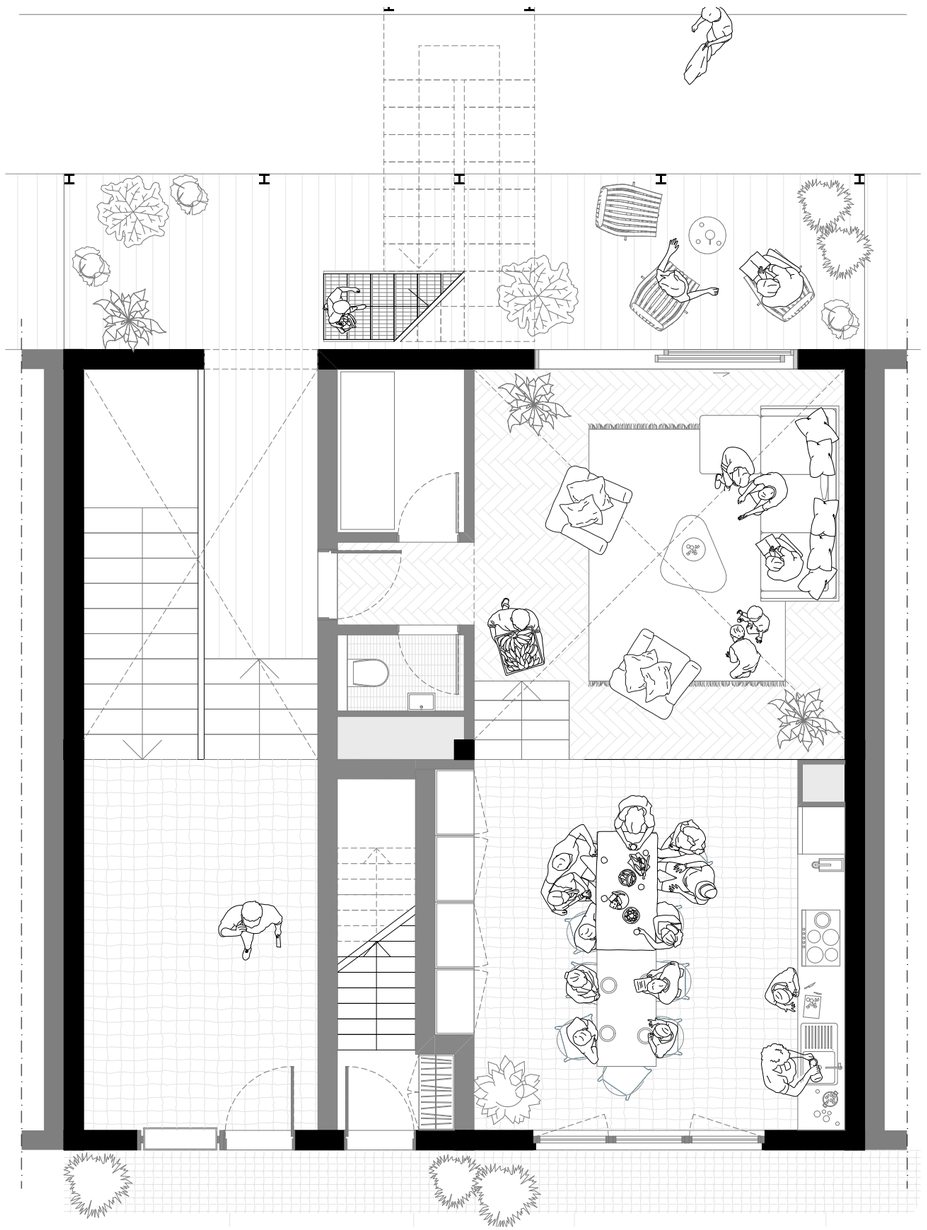

kinderkarten
HYGGE

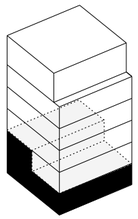
House S - Micro apartment





House S - Collective Livingroom





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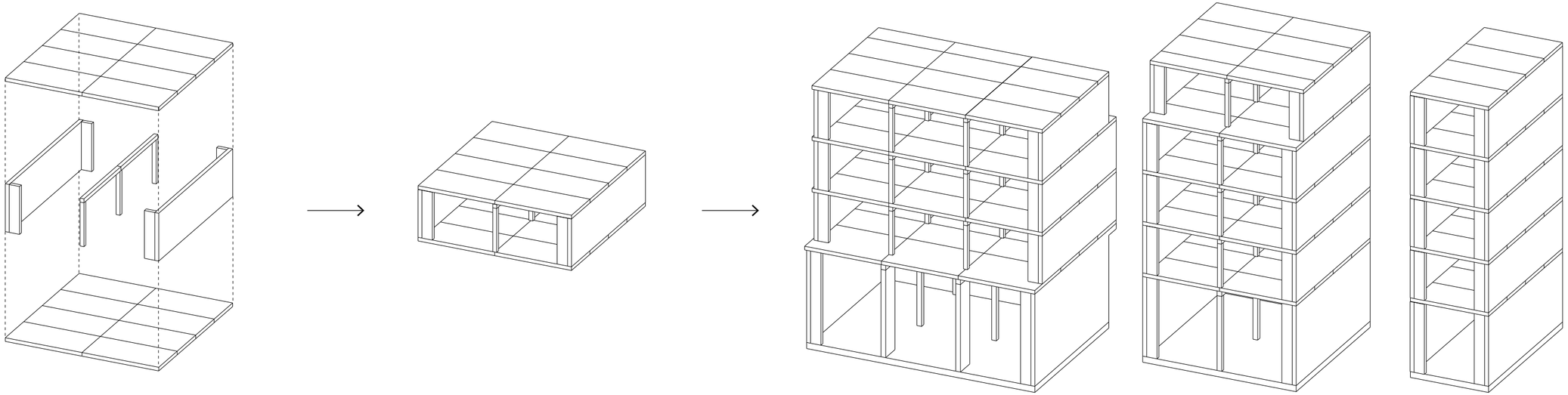
02 Concept & Design

03 Building Technology

Loadbearing Structure - CLT Timber construction



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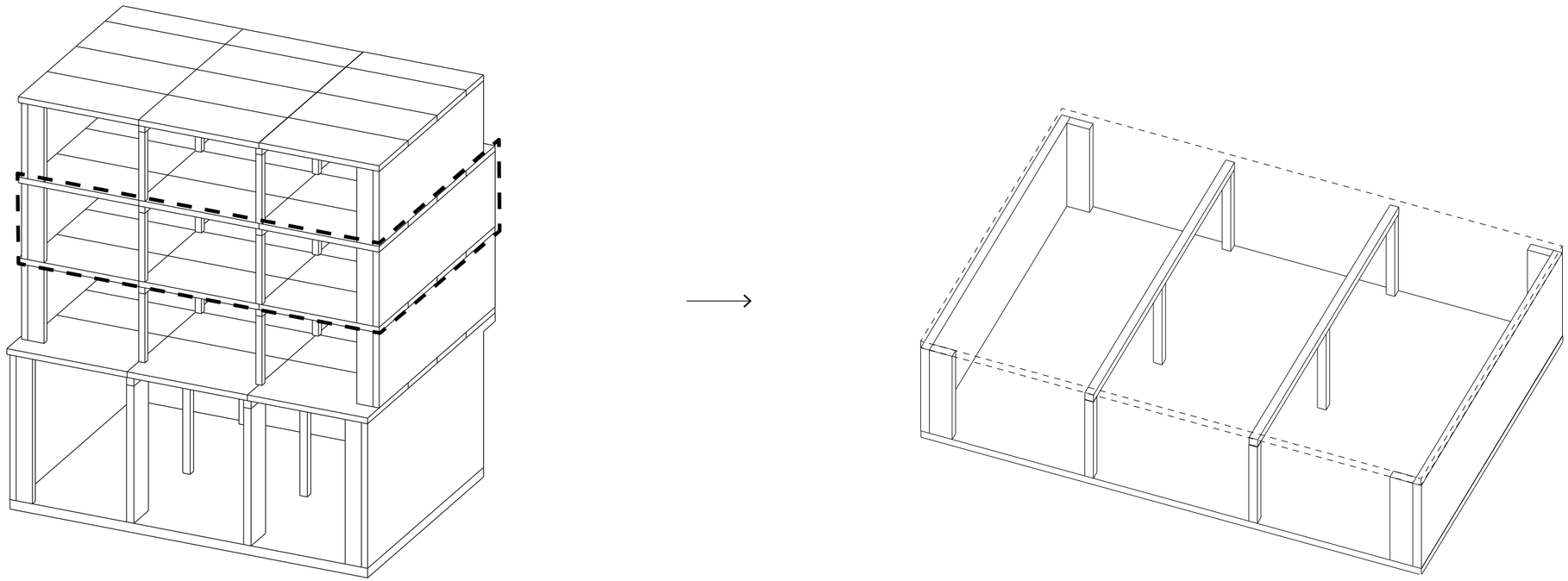

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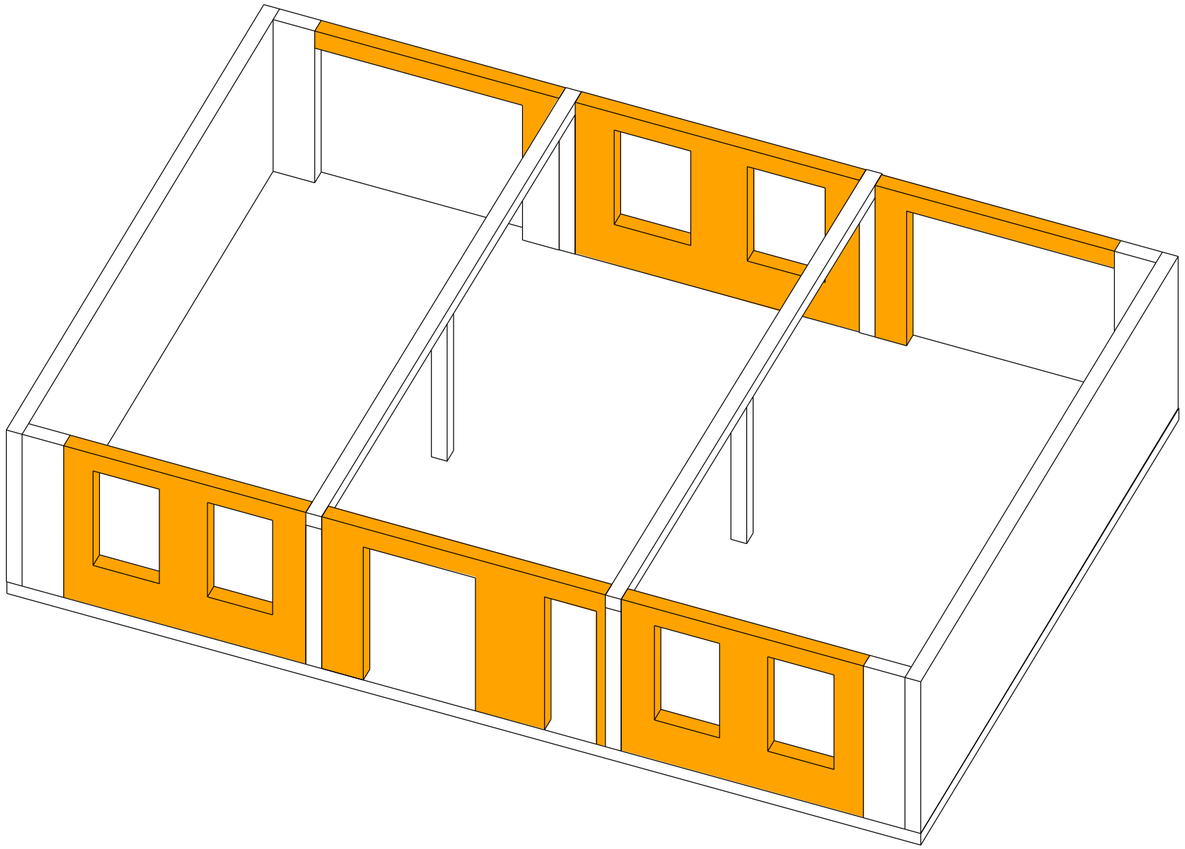

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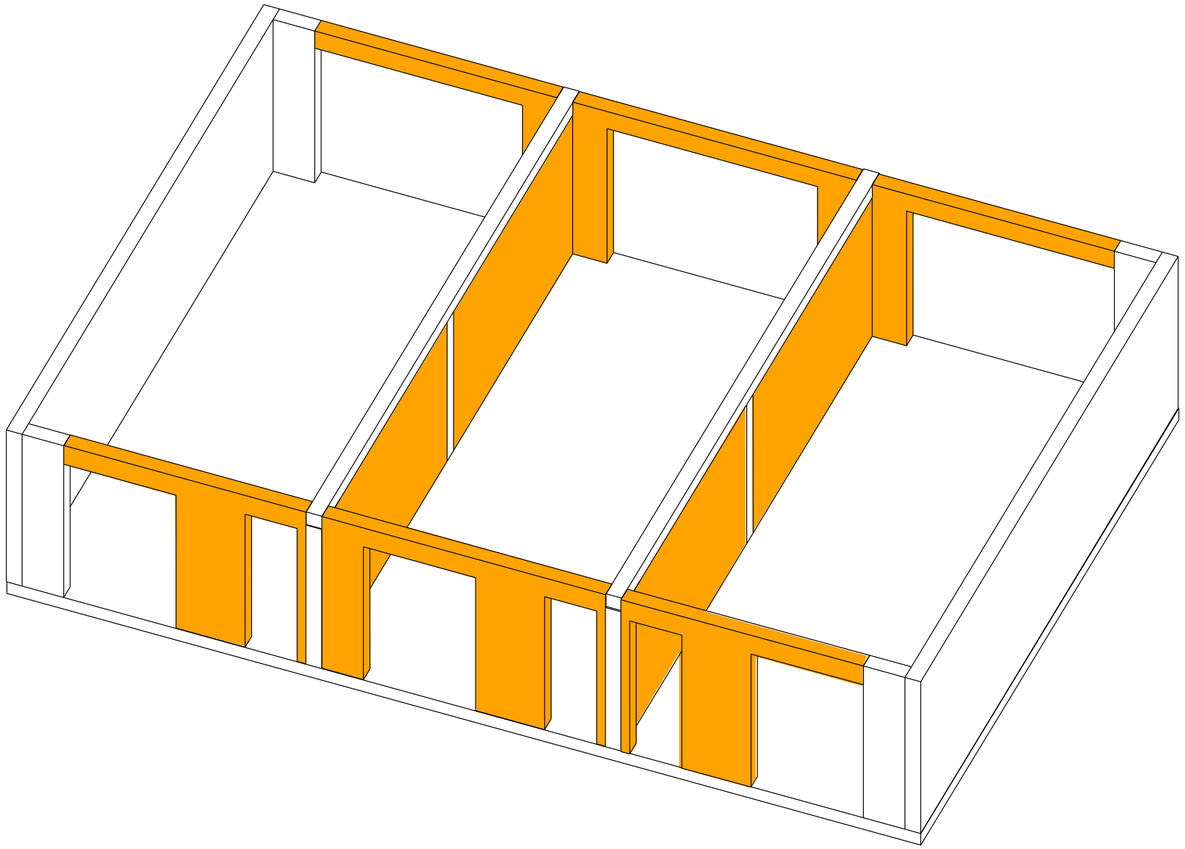

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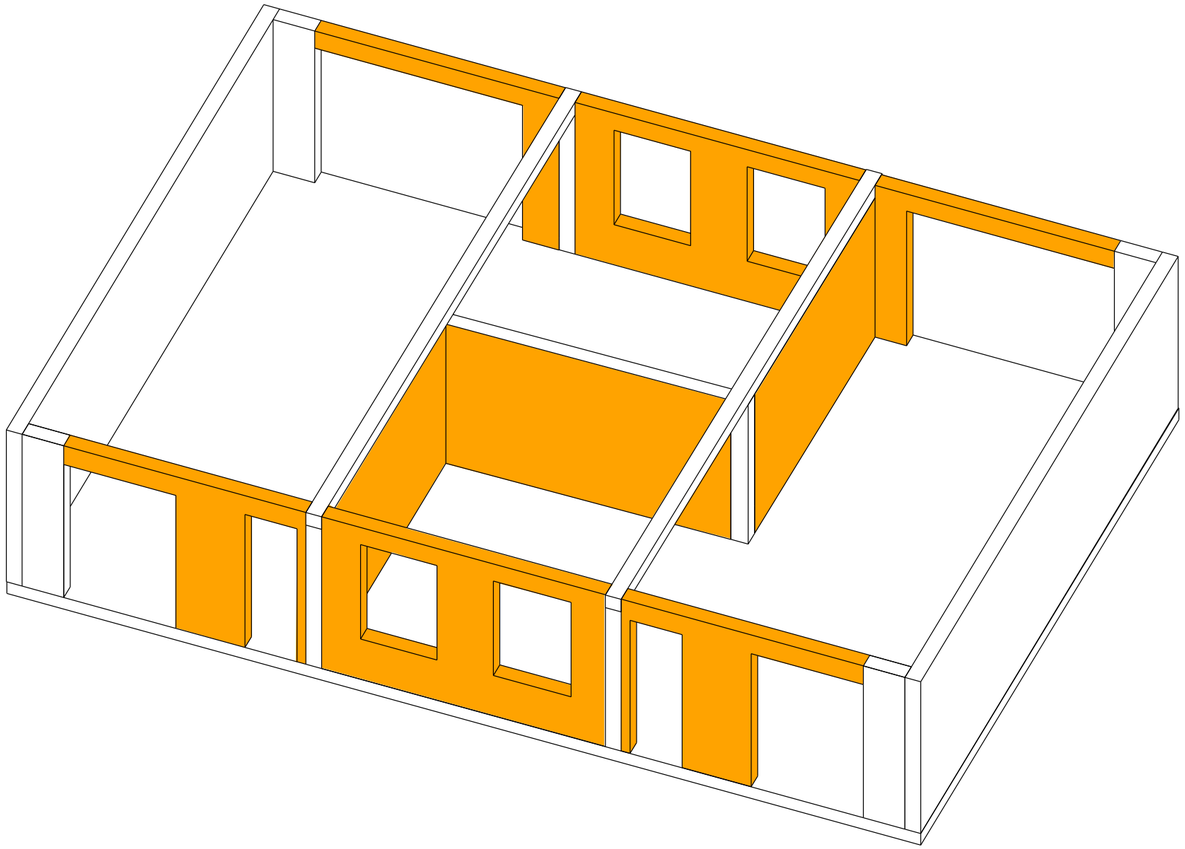

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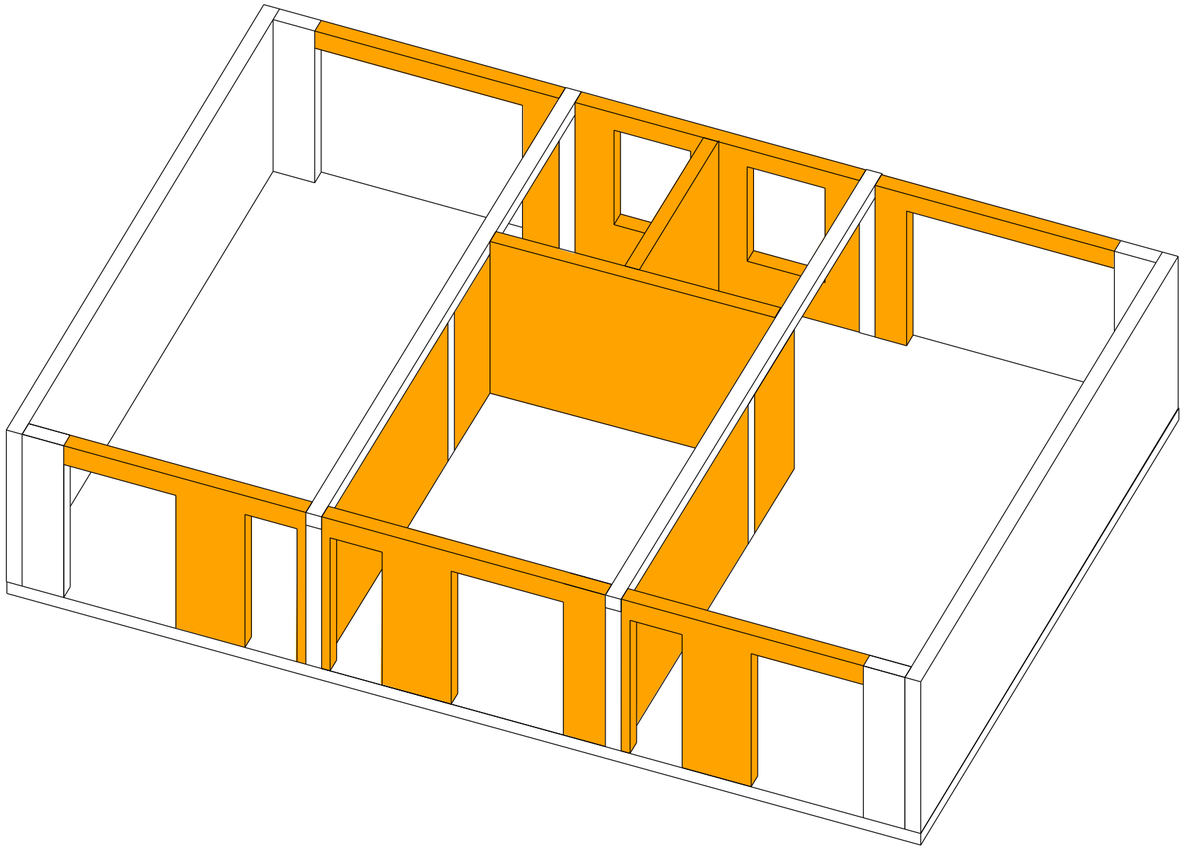

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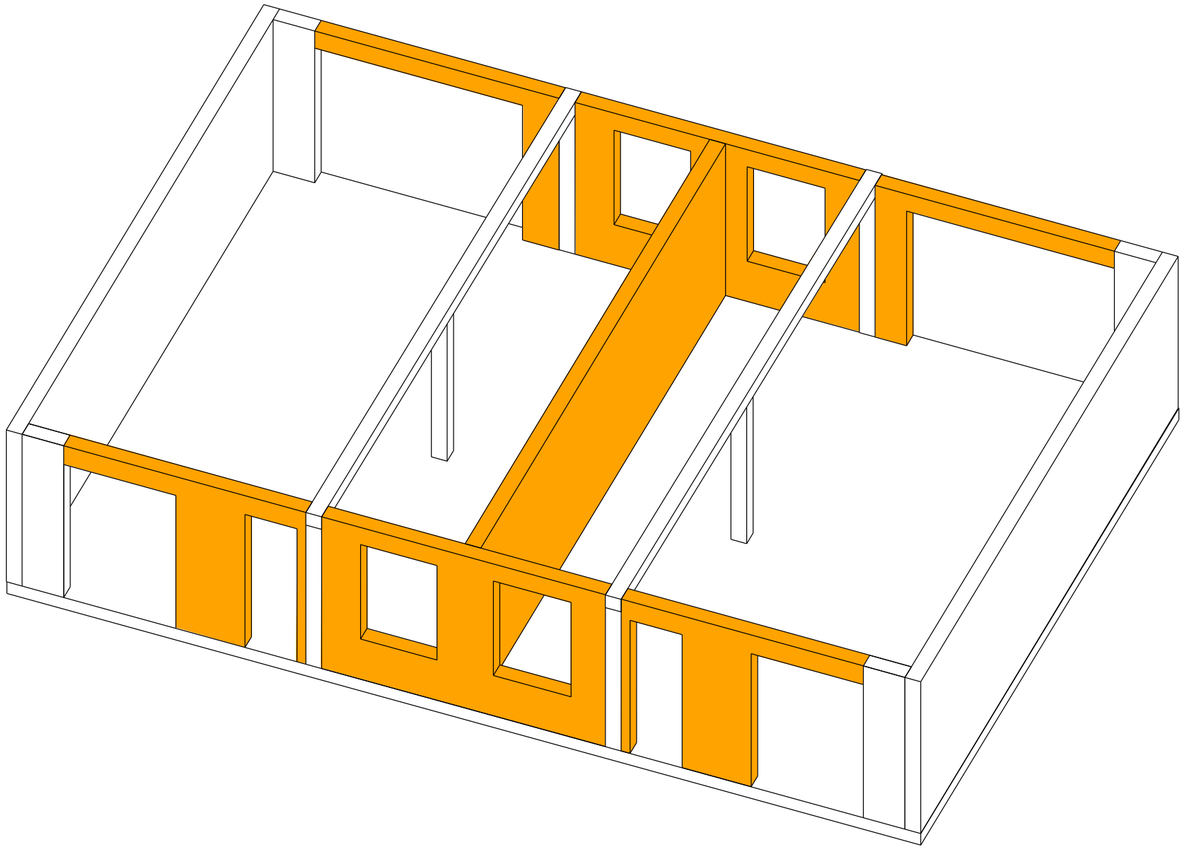

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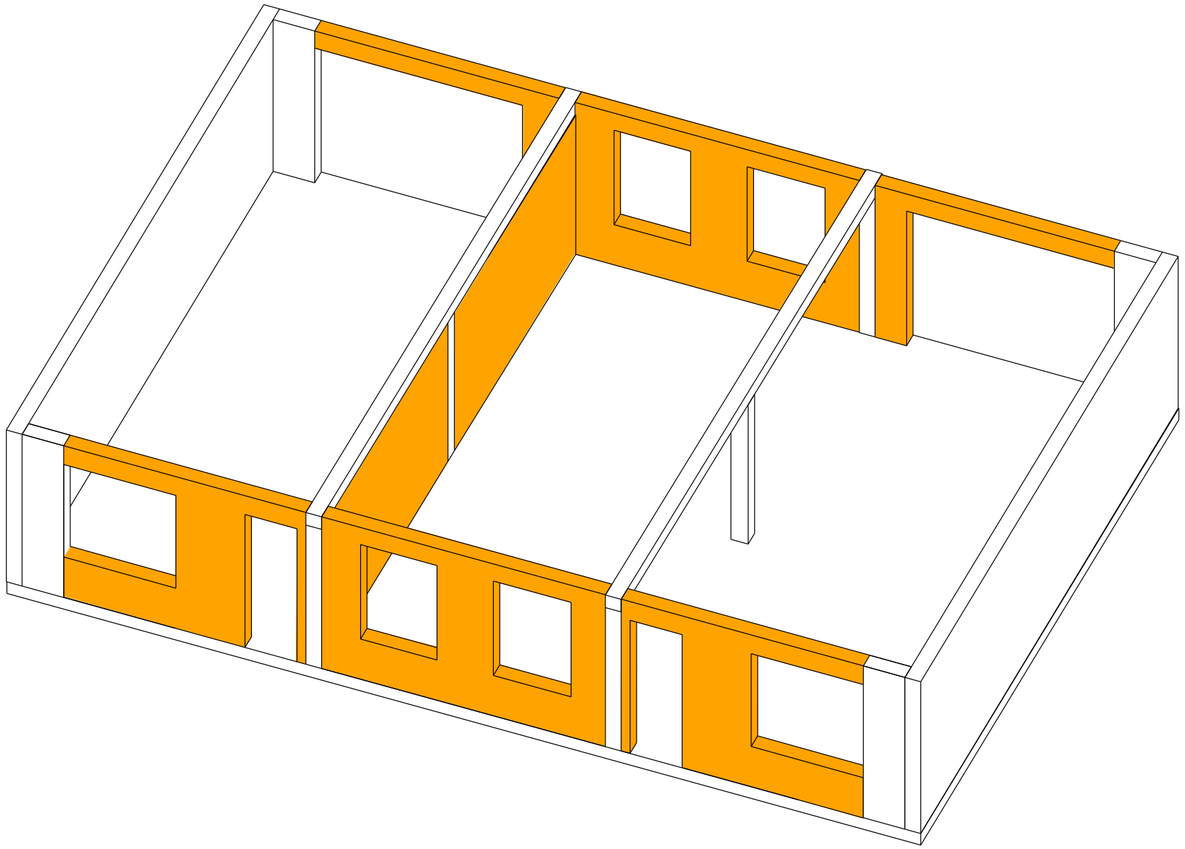

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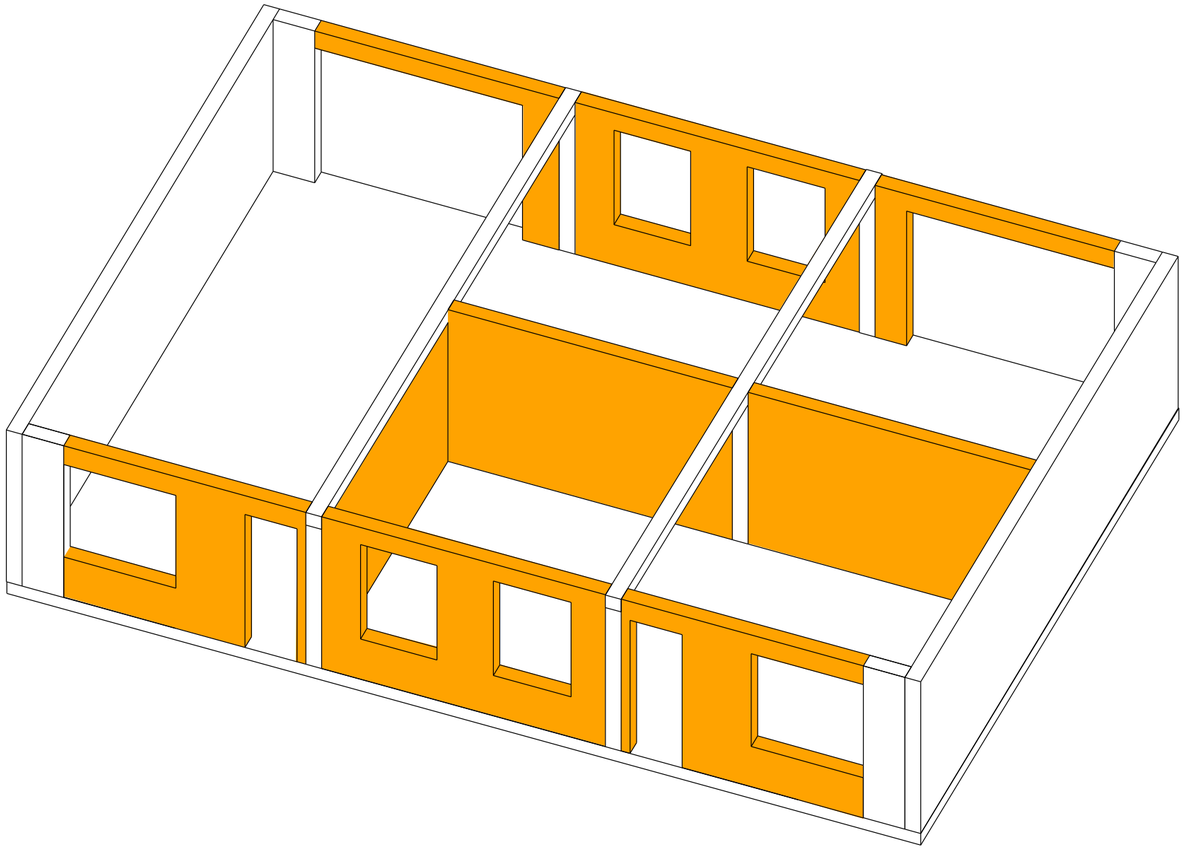
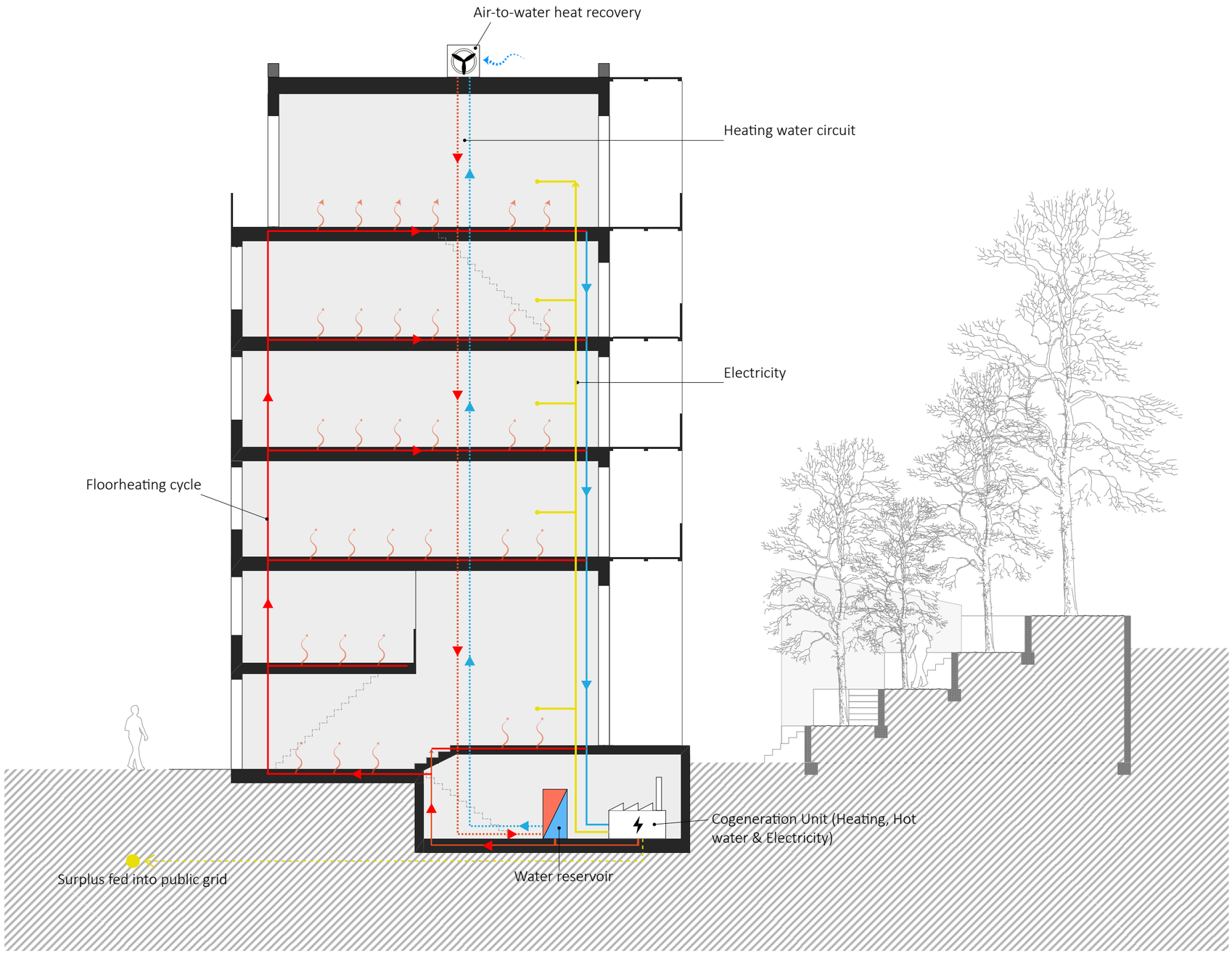
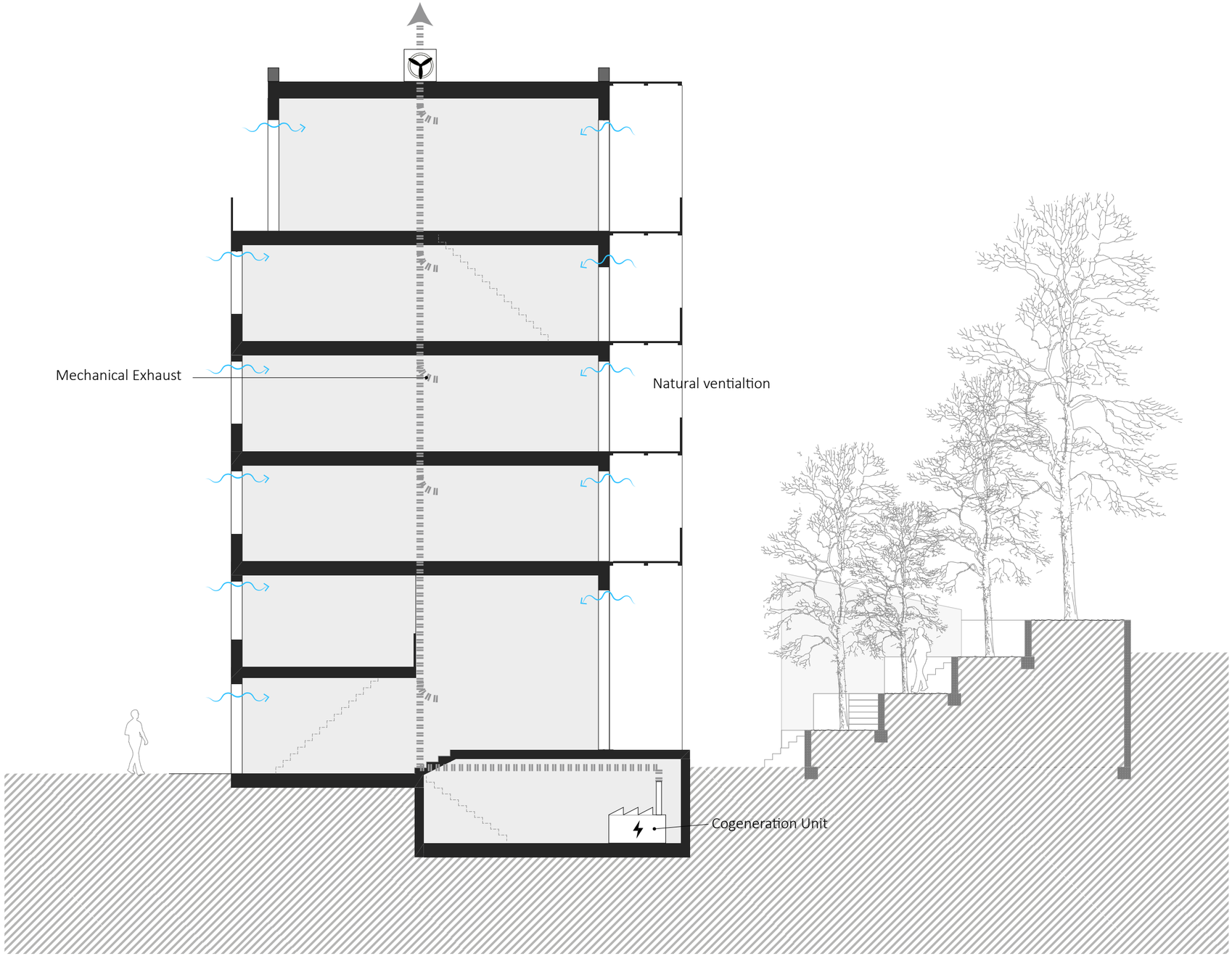


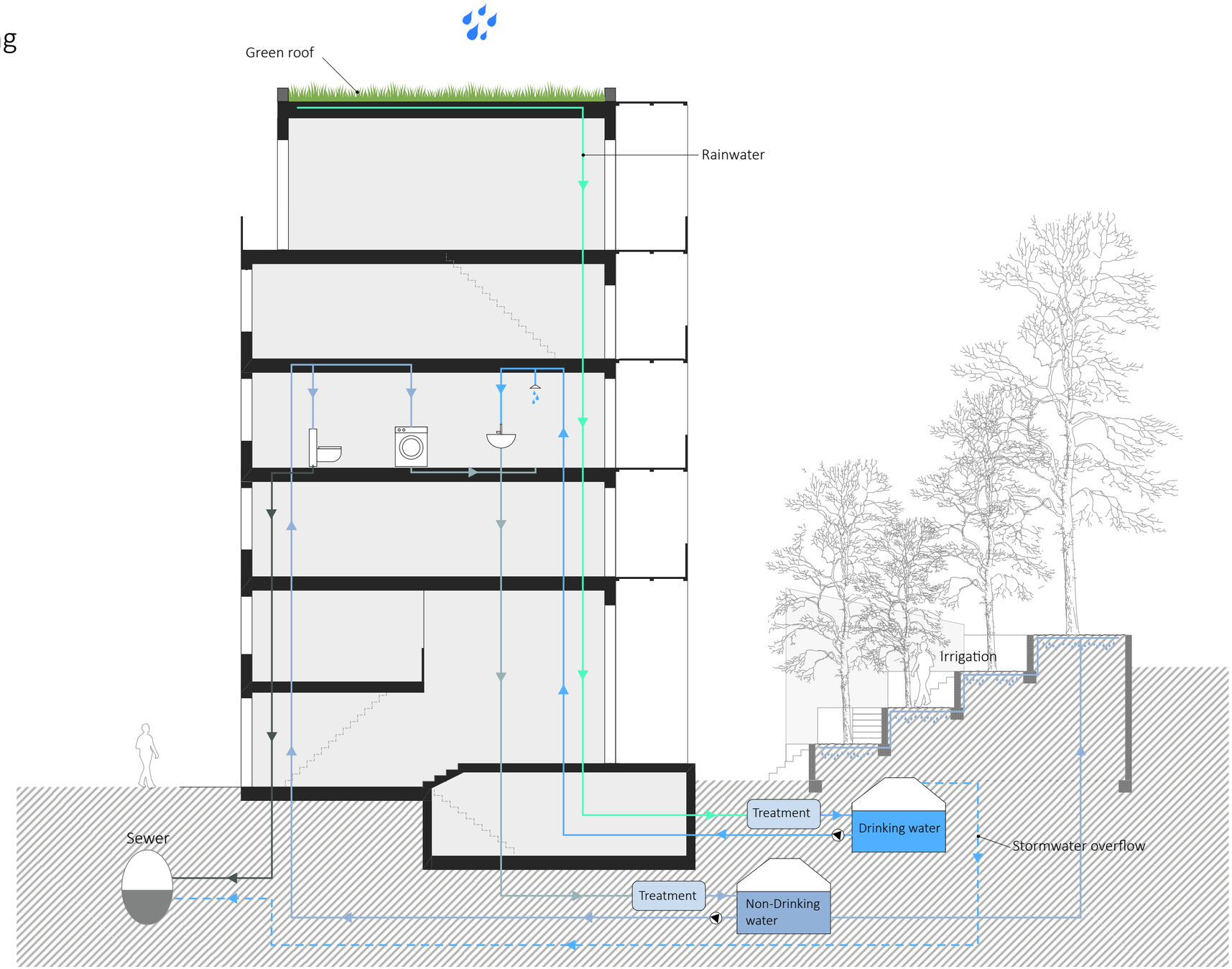
Heating concept



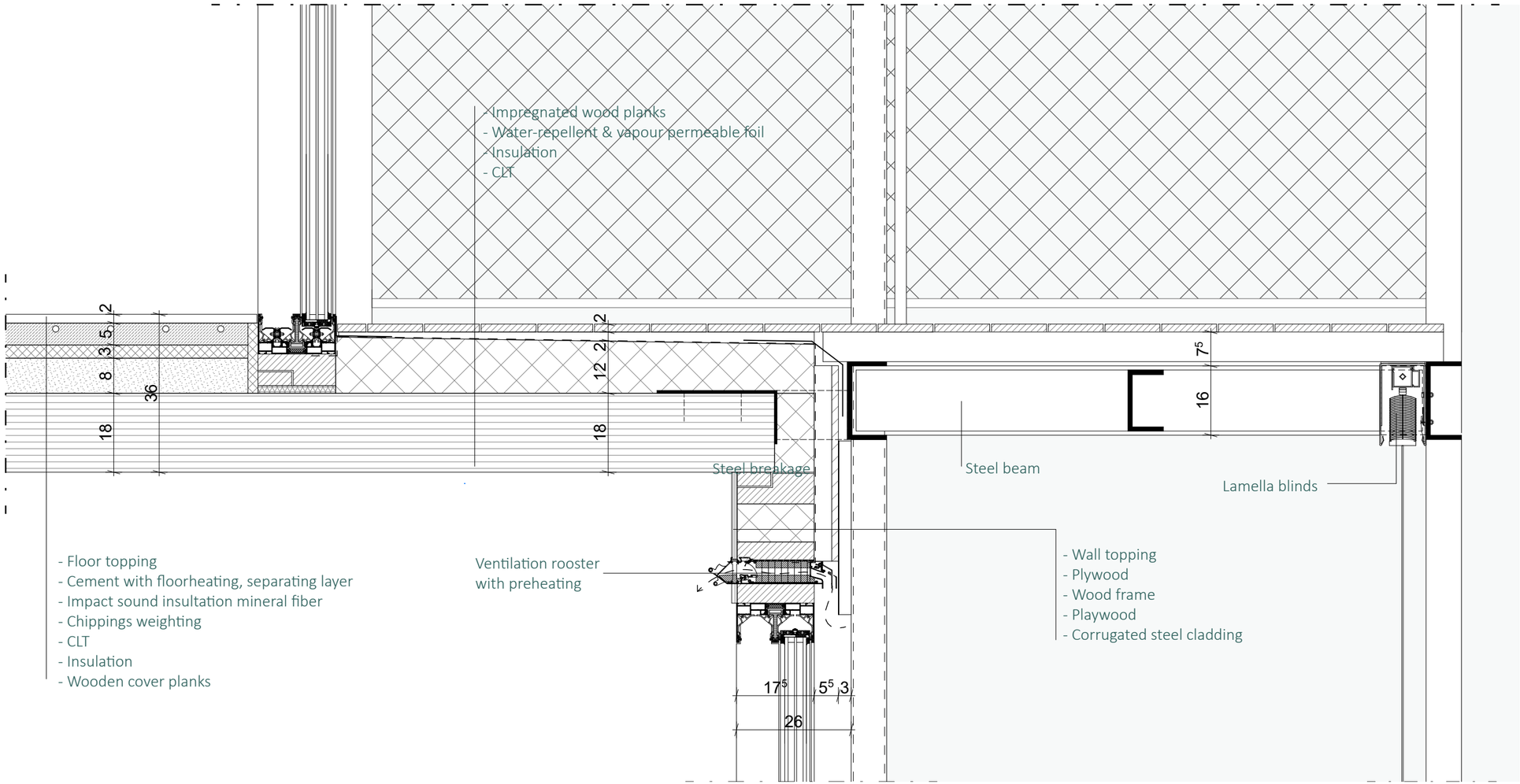
Ventilation



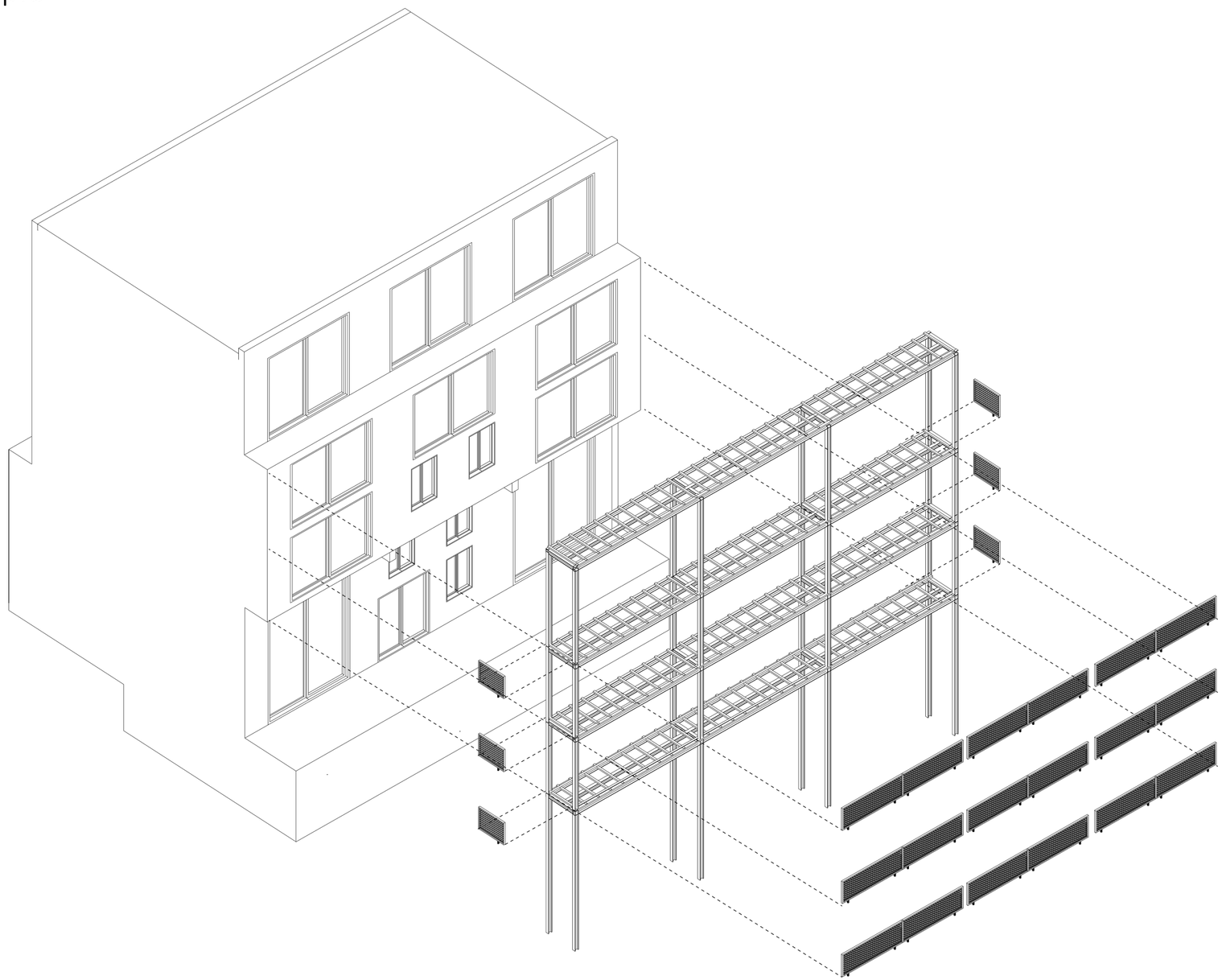
Rainwater harvesting



Detail Terrace



Terrace Construction Principle

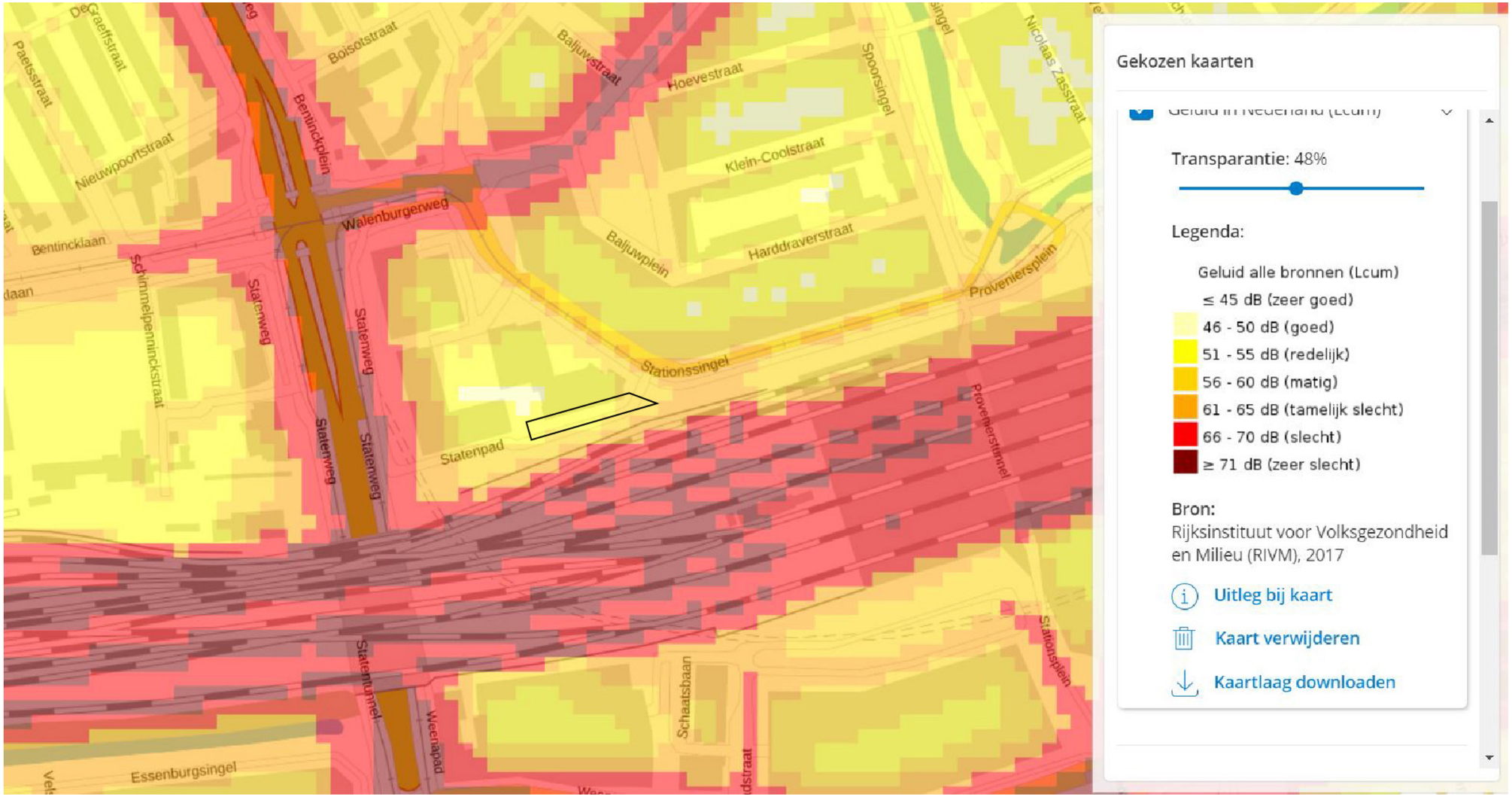



Café


Thank You

Appendix

Noise pollution - Walenburghof



Source: Atlasleefomgeving

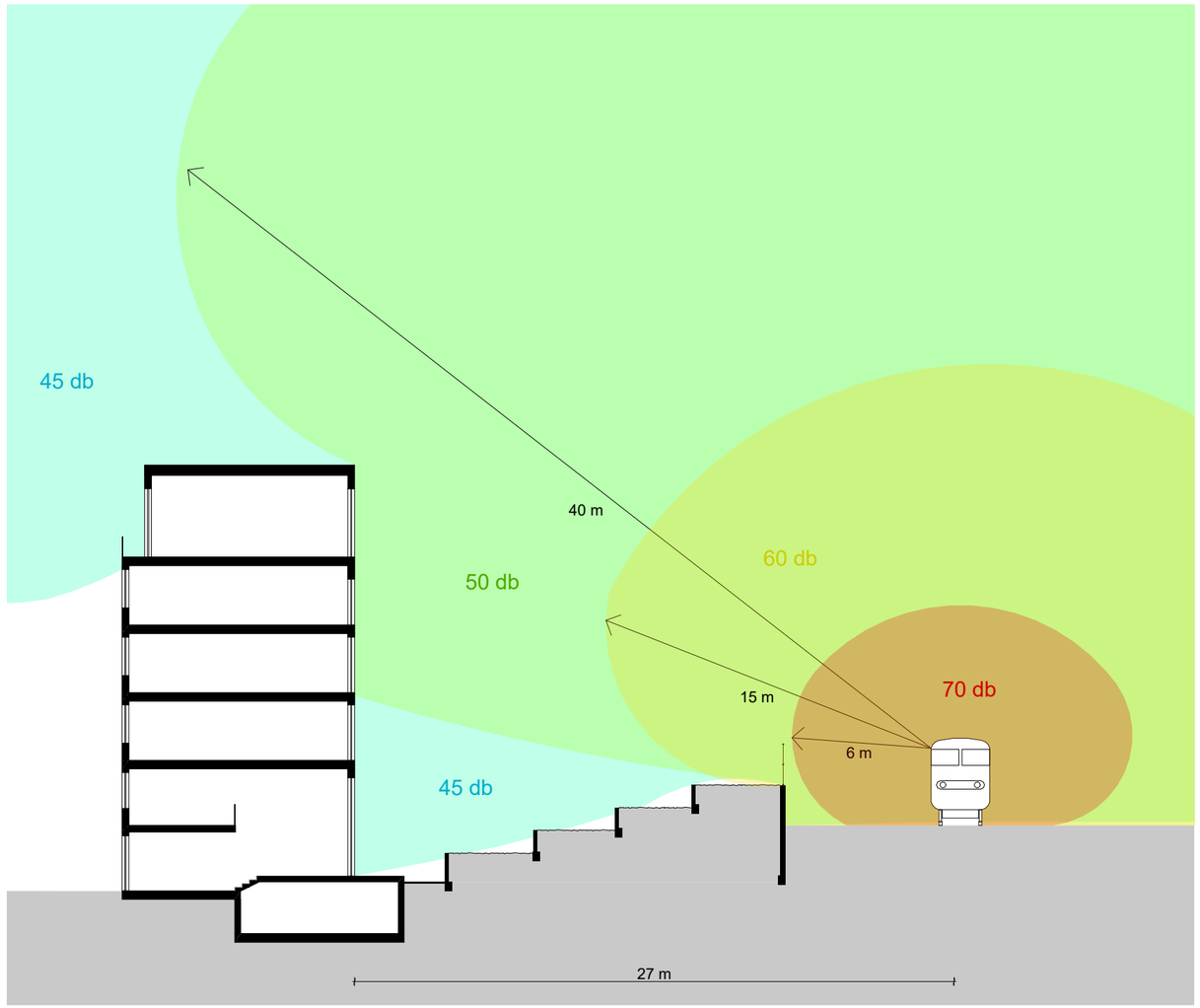
Noise pollution - Walenburghof

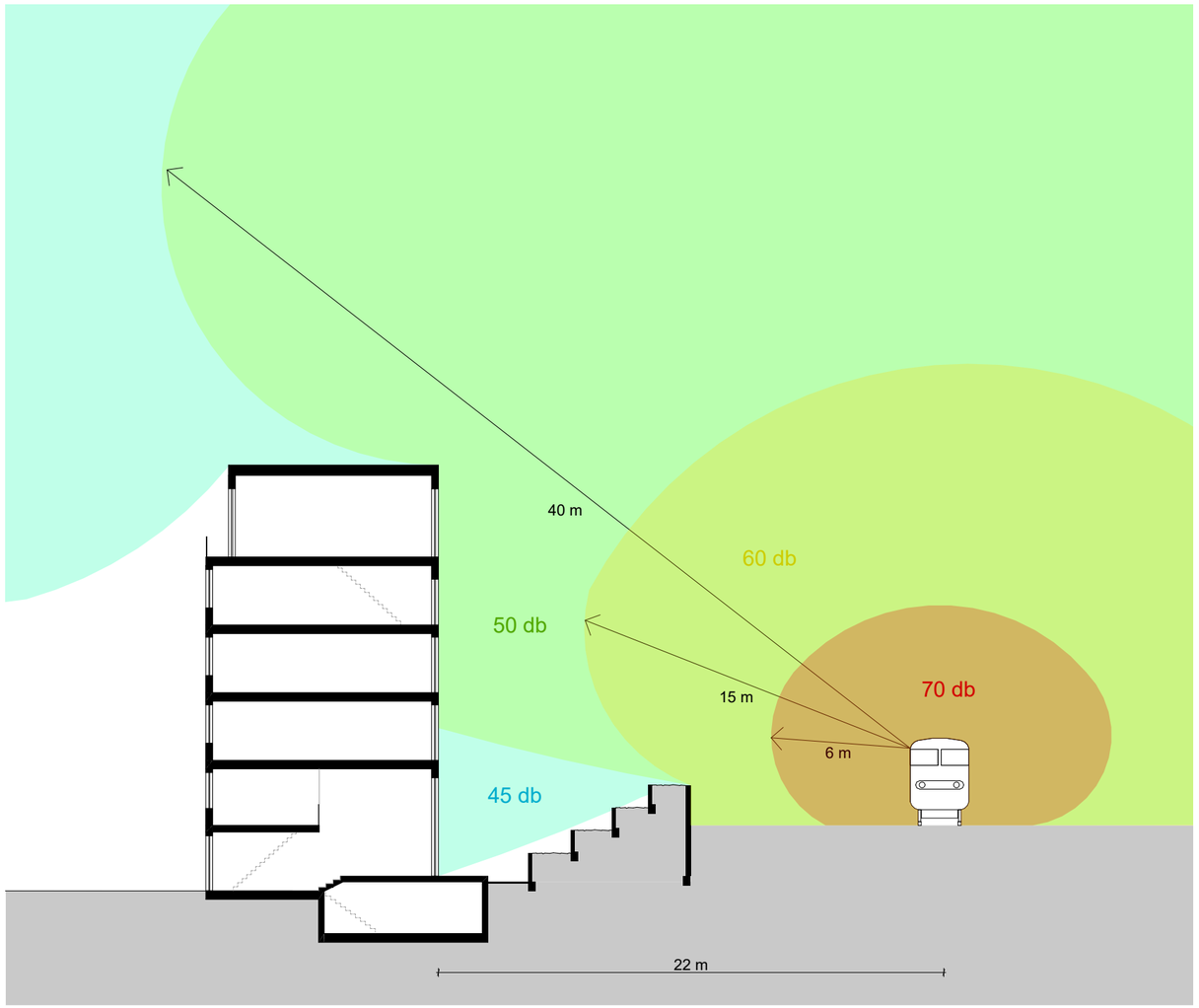
Road traffic	57 dB	47 dB
Train traffic	50 dB	43 dB
Industry	< 40 dB	< 35 dB
Air traffic	< 40 dB	< 35 dB
Summarized	57 dB	47 dB

	New apartments	
	Within the City	**Outside the City**
Prefered level	48 dB	48 dB
Maximum level	63 dB	53 dB

Source: Geluidsbelastingskaart Rotterdam 2017

Noise Study





Source: forschungsinformationssystem.de