

PUBLIC CONDENSER AS

SPACES OF FAMILIARITY

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P5 PRESENTATION
03- 07- 2020

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Building Technology

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- Flexibility
- Adaptability
- Fragment 1.20
- Climate concept

Impressions

Location, Melis Stokepark



The Hague city.



South-West District, Morgenstond.



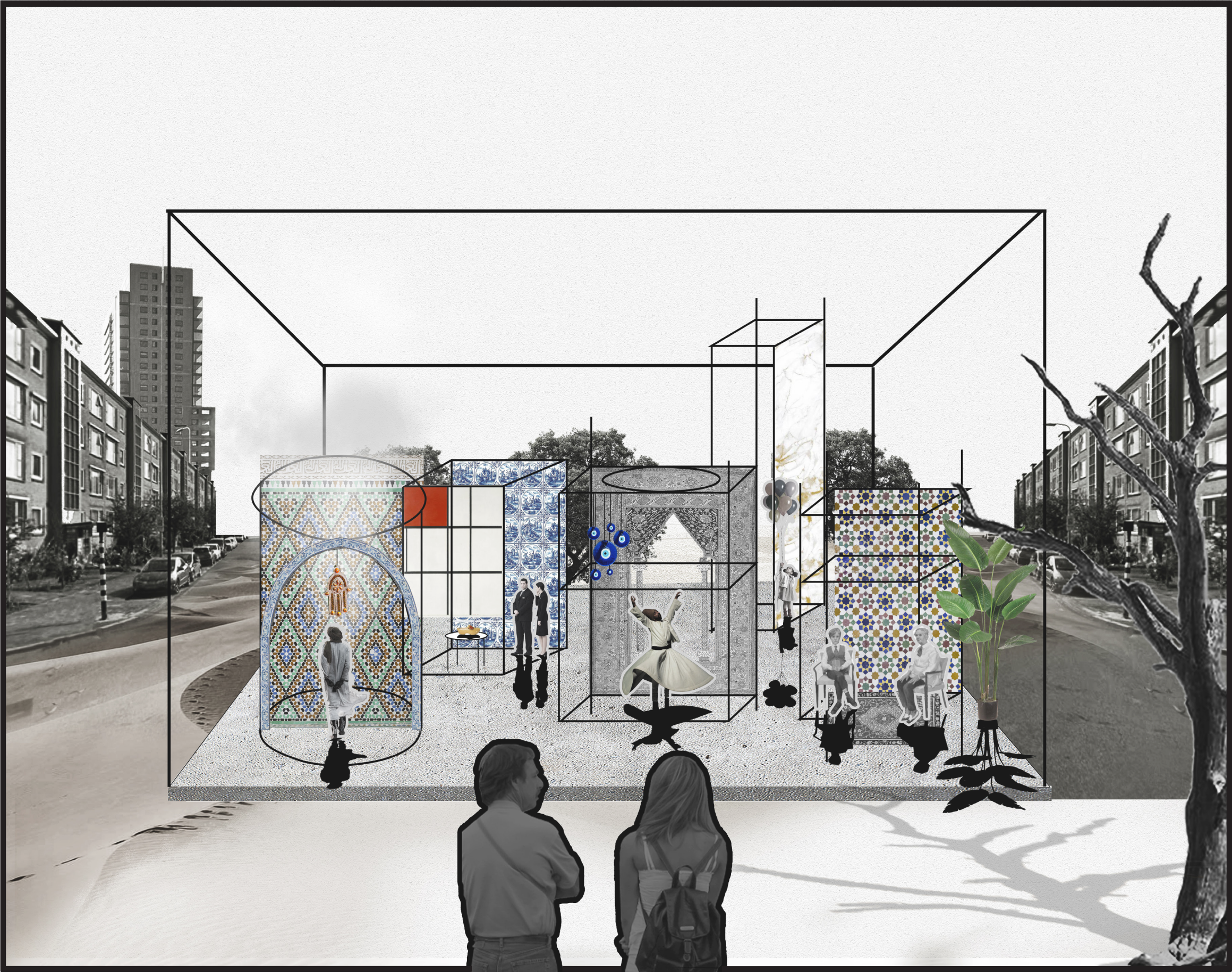
Melis Stokepark.

Modernist Neighbourhood



Main Research Question

How can architecture be a **Mediator** between the mono-functional modernist neighborhood and the diverse people of South-West district?



	The Hague	Morgenstond
Social cohesion		
I have many contacts with people living in the neighbourhood, in %	30.1	25.8
I am happy with the composition of people in the neighbourhood, in %	56.3	45.5
I live in a pleasant neighbourhood with a lot of harmony, in %	33.0	23.8
I feel at home with the people who live in this neighbourhood, in %	50.6	38.9
Social cohesion	5.6	4.9
Education		
Low education (vmbo)	33%	45%
Secondary education (havo, vwo)	39%	36%
High education (hbo, wo)	31%	16%
Population		
Population growth	5.8%	9%
Population form Dutch origin	45.3%	30.8
Population with migration background	31%	70.2%
Economy		
Unemployment	6%	9%
Average income	23.300 euro	19.800 euro
Safety		
sometimes feels unsafe in own neighborhood, in %	27.6	36.3
score for safety in the neighborhood (average)	6.7	6.2

Public Spaces in Morgenstond, examples





Morgenstond in Media, articles

Social cohesion

Few contacts with neighbours and few social and cultural initiatives and lacks of social cohesion in the neighbourhood.

Education

Difficulty in learning Dutch language for pupils from migrants’ families

Dutch language deficiency

Population Composition

Dutch origin, 30.7, Non- Dutch origin, 69.3

Turkish: 15.4% . Western 13.8% . Surinamese 12.9% . Moroccan: 9.4% . Antilleans 3.4% . Non-Western 14.3% .
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Economy

High unemployment rate, low average income debts, empty shopping streets and many people live in poverty.

Safety

Vandalism and crimes



DEN HAAG - Den Haag krijgt een wethouder die speciaal belast is met het stadsdeel Escamp en de uitdagingen van een klein centrum. Duitse Marlijn Balster is benoemd en deze moet te



orthijs van Schie - 31 mei 2018 -



DEN HAAG - Om de problemen in Moerwijk in Den Haag aan te pakken wil Hart voor Den



Meeste leegstand van Nederland in winkelcentrum Den Haag Leyweg

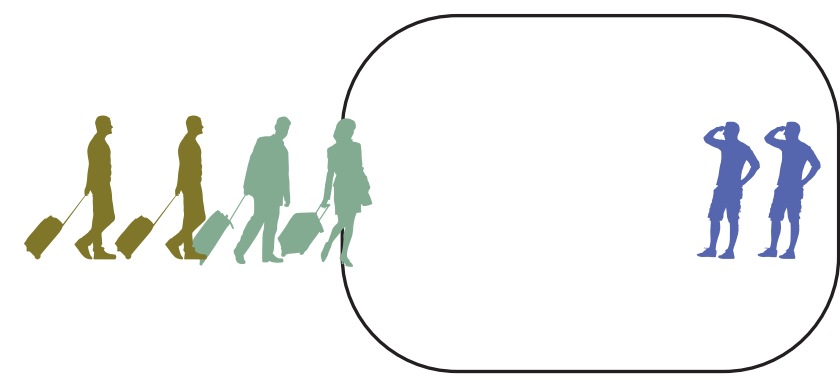


Het toenmalige filiaal van de V&D aan de Haagse Leyweg in 1970 (Foto: W. G. de Wit)

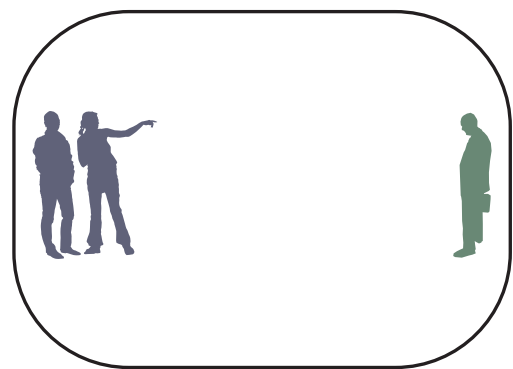


Dalida Banaszkieciz koopt zelf ook graag Poolse producten. "Dan weet ik wat ik eet." De goedlachse blondine voelt zich thuis in Den Haag Zuidwest. "Laatst liep ik op straat en hoorde ik overal Pools. Het voelt soms alsof ik in Polen ben." Ze heeft veel Poolse vrienden. En haar buurvrouw is ook Pools.

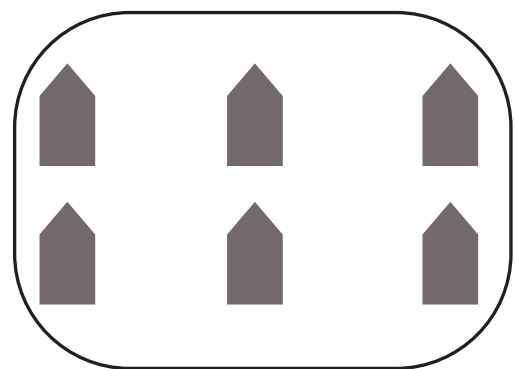




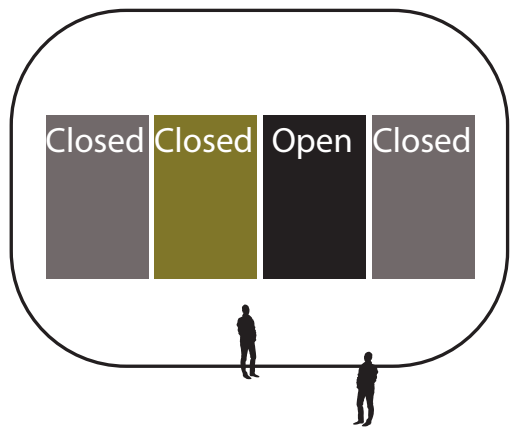
Unfamiliarity+ unknownness



Social disorder + Segregation

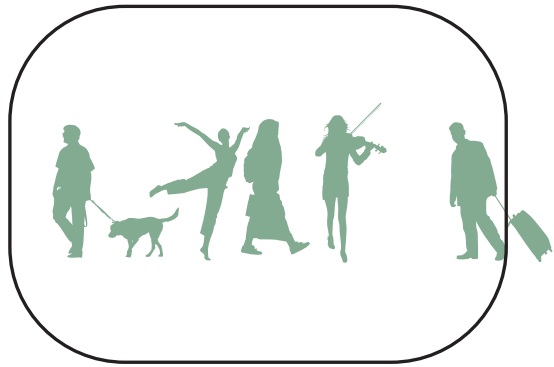


Sub Urbanity

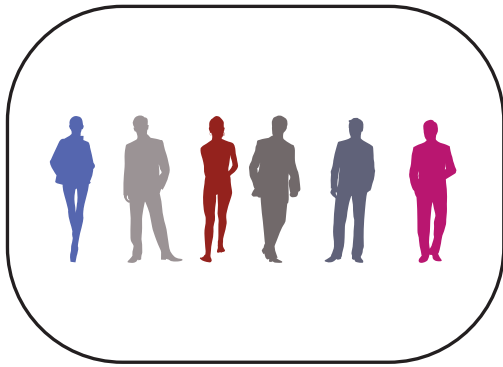


Underused public space

Research Design



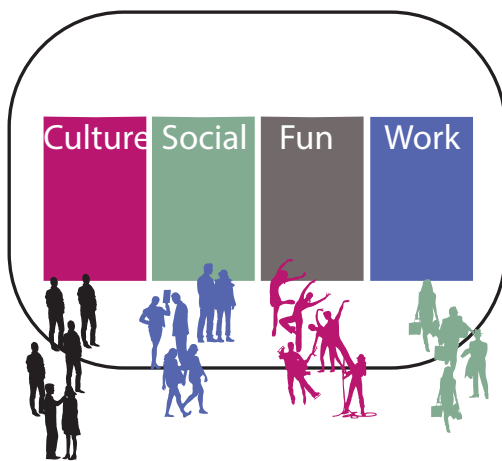
Familiarity



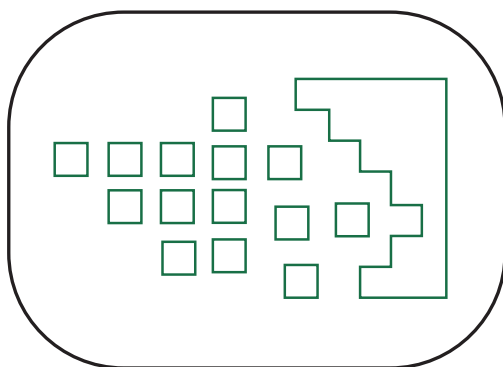
Diversity + Social cohesion



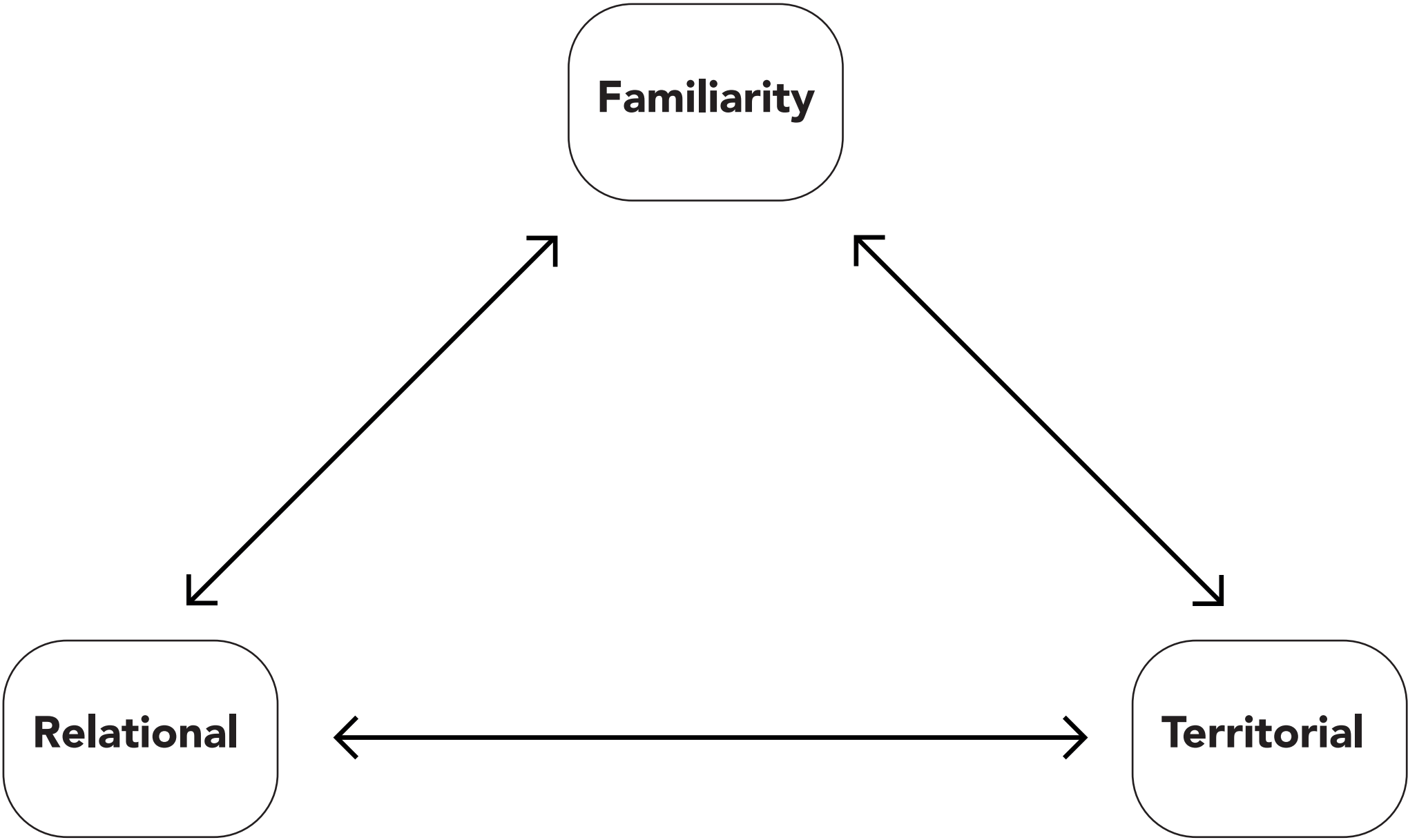
Urbanity



Densely used
public space



Flexibility



Relational Familiarity, Participation and Activities

Familiarity is **everyday** social and cultural practices or activities that require involvement, participation, and understanding *as Heidegger defined in Being and Time*.



Hammam (Wedding ceremony).



Religious activities, mosque (Praying).



Hammam as a social hub.



Religious activities, church (Praying).



Making traditional dishes in public space (cooking).



Collective (sporting), Schouwburgplein.



Boundless Kitchen and Trampoline house (Cooking).



Collective (dancing).



Socializing in the park.



Open air theater in vondelpark.



Outside playing.

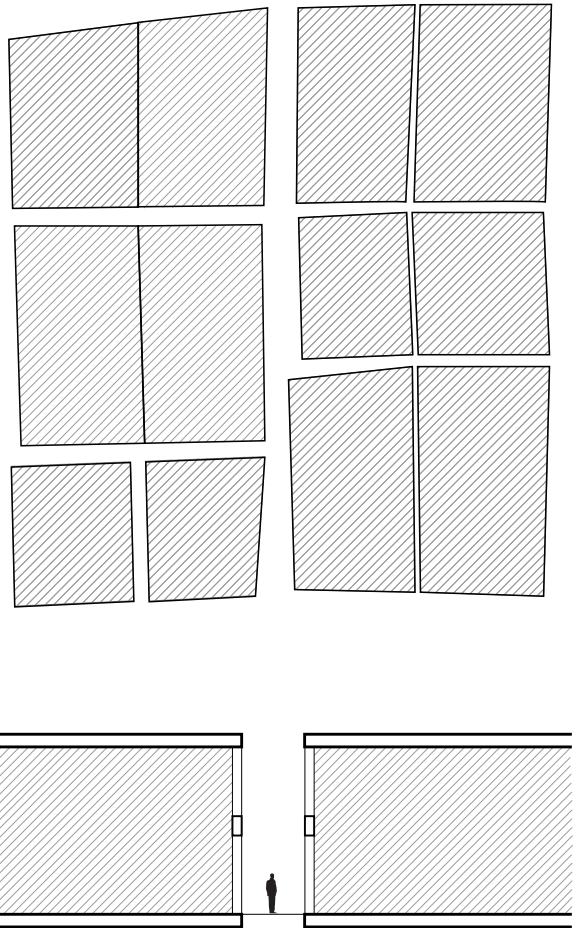
Territorial Familiarity, street and space



Historical city center, Leiden



Peterskerk Choorsteeg



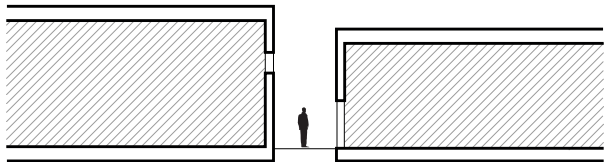
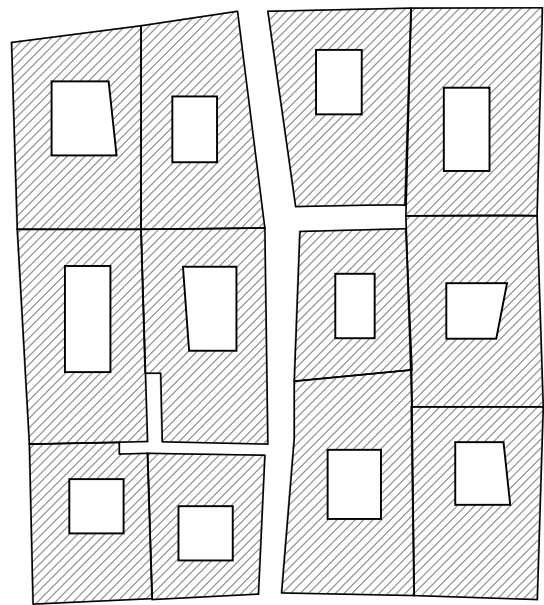
Open and transparent relation



Historical city center, Marrakech



Typical alleyway in the city



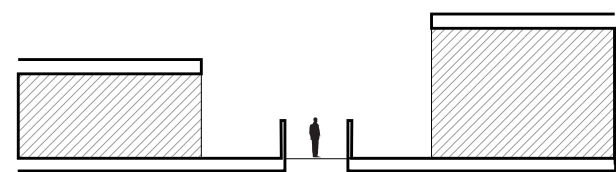
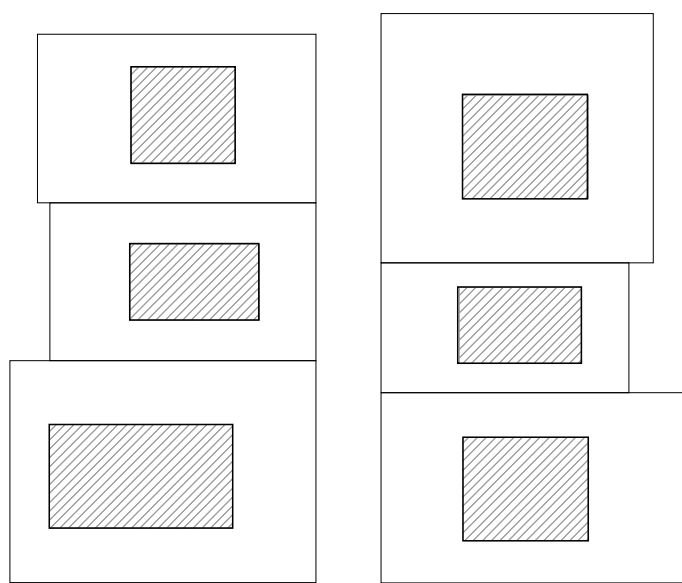
Close relation



Paramaribo



Typical street in the city



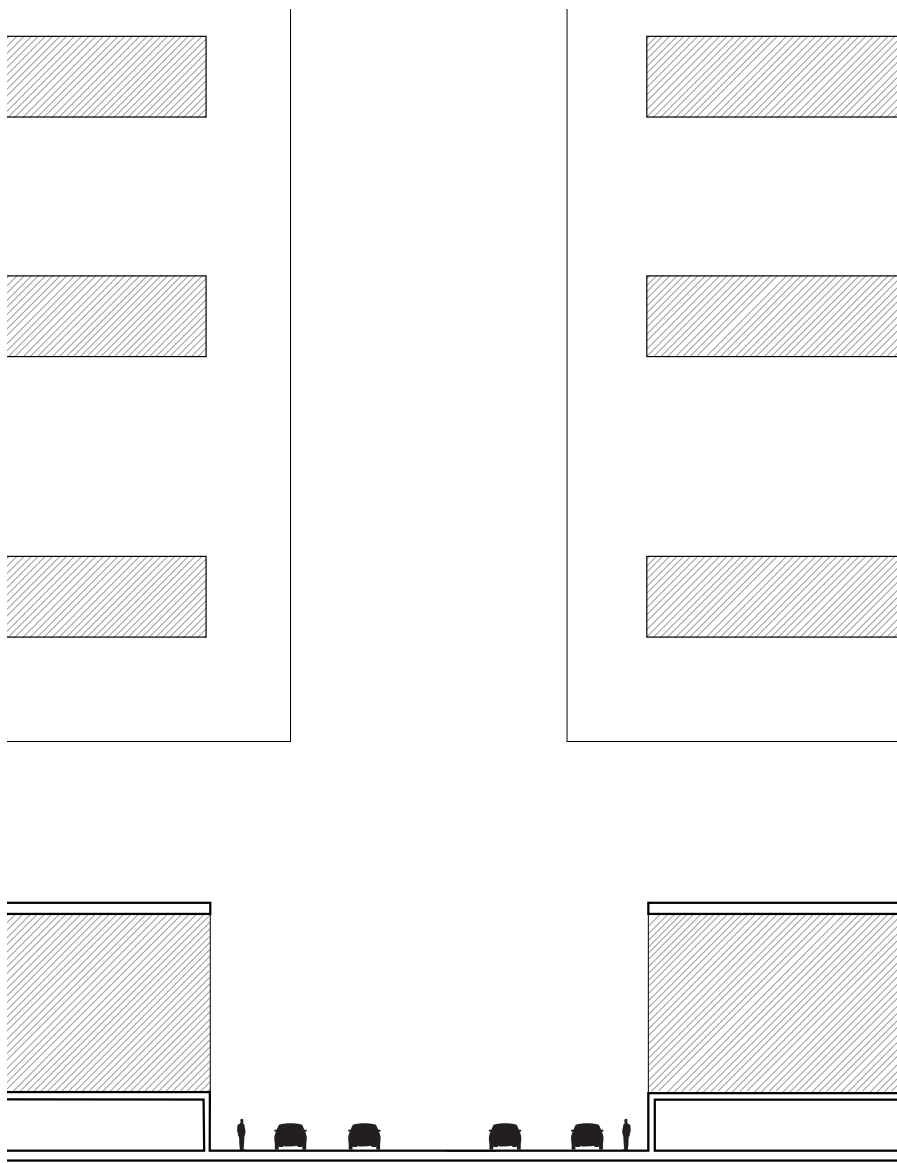
Indirect relation through transitional space

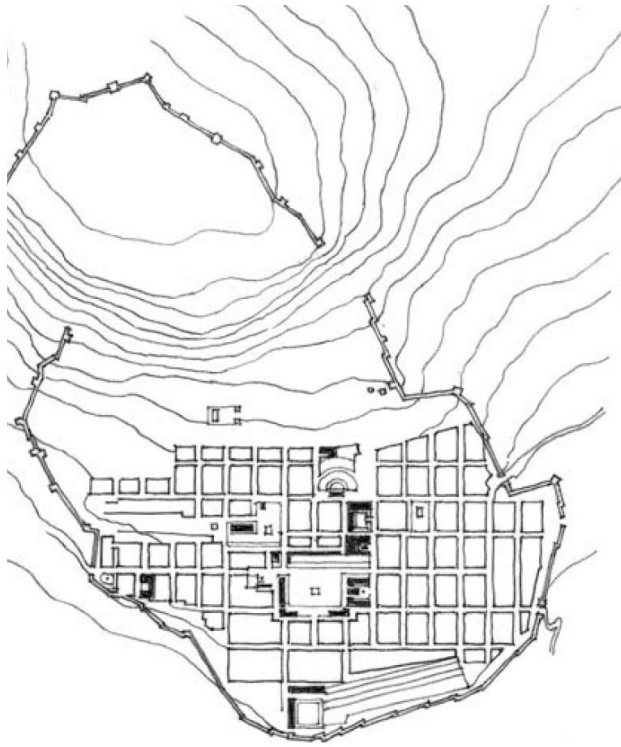
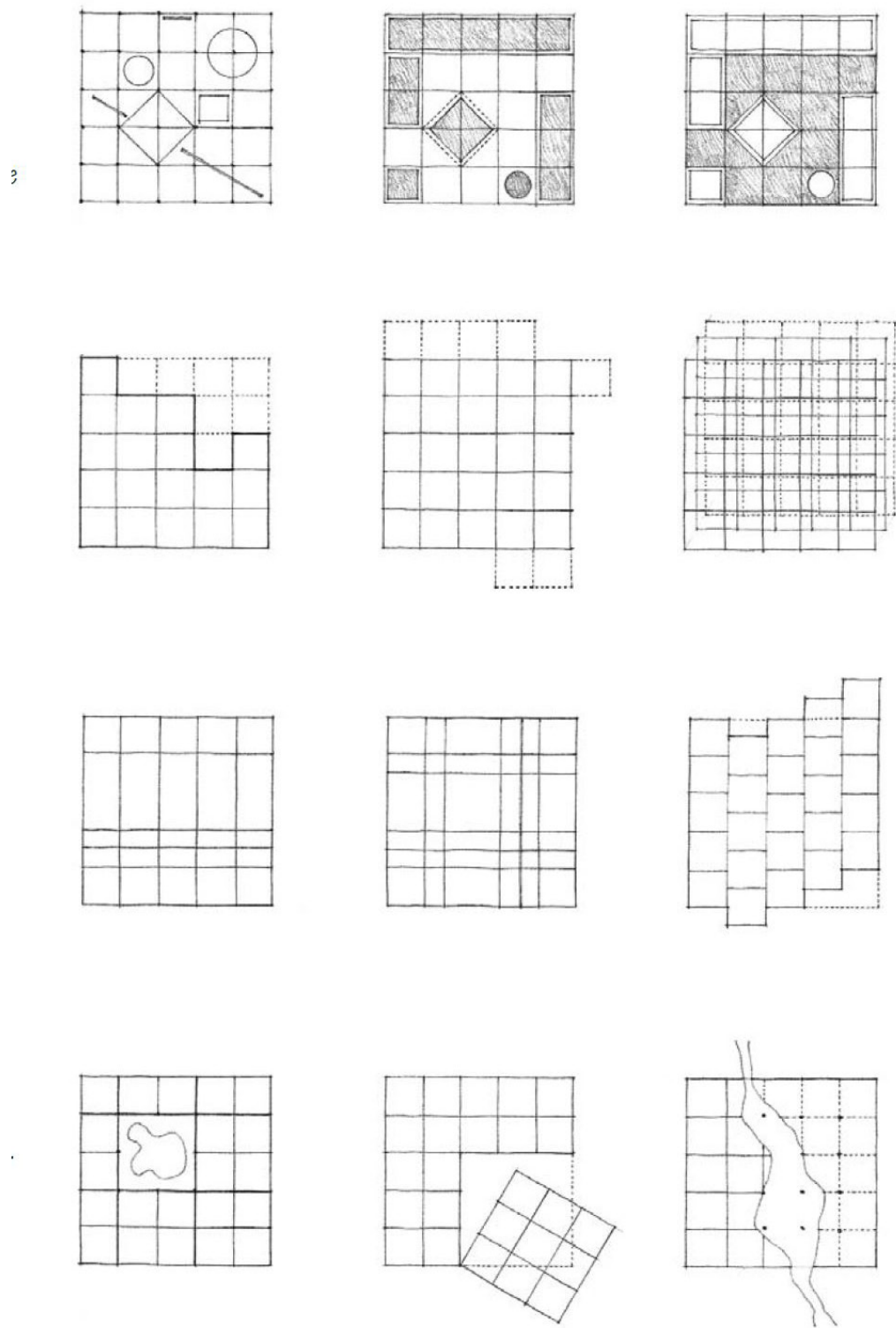


South-West, The Hauge

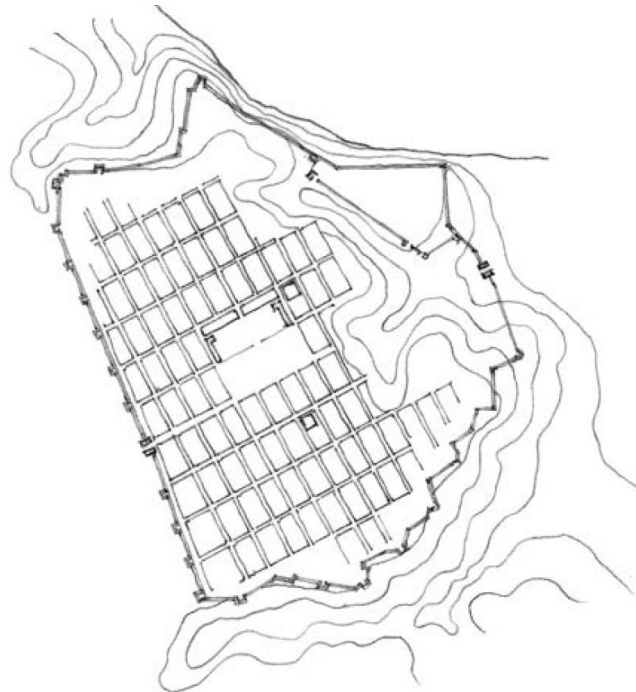


Dalerveenstraat





City of Priene, Turkey, 334 B.C



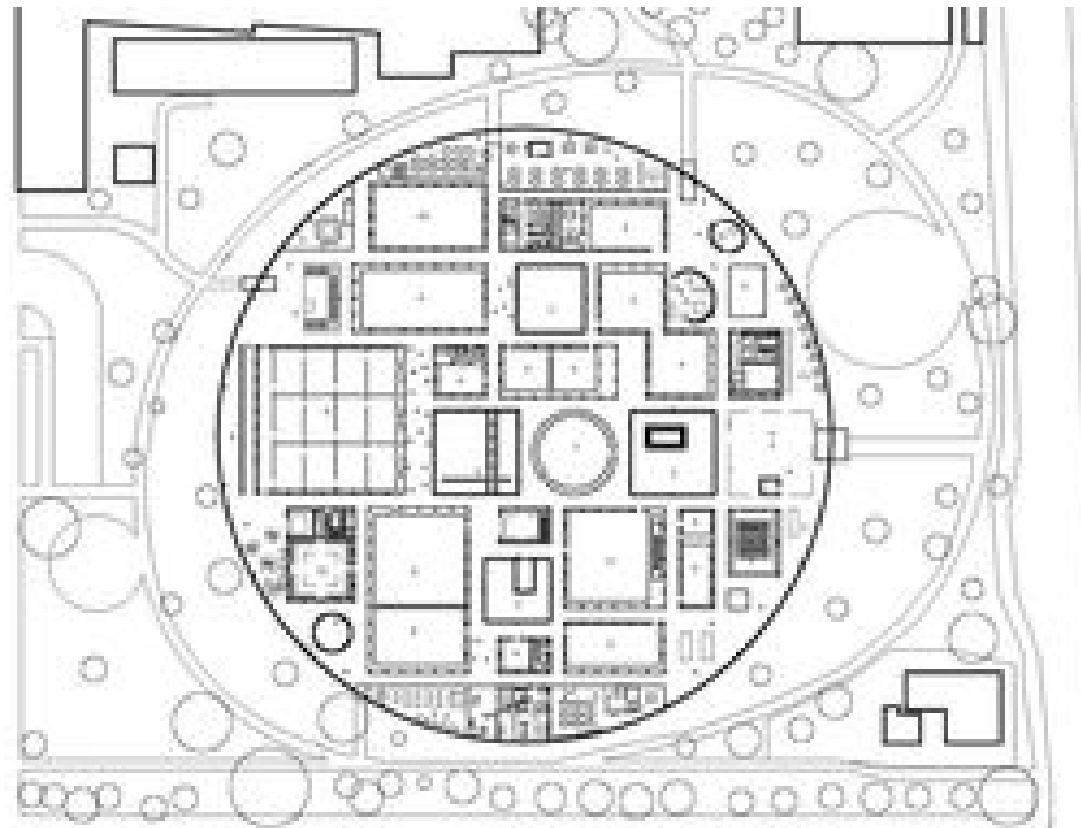
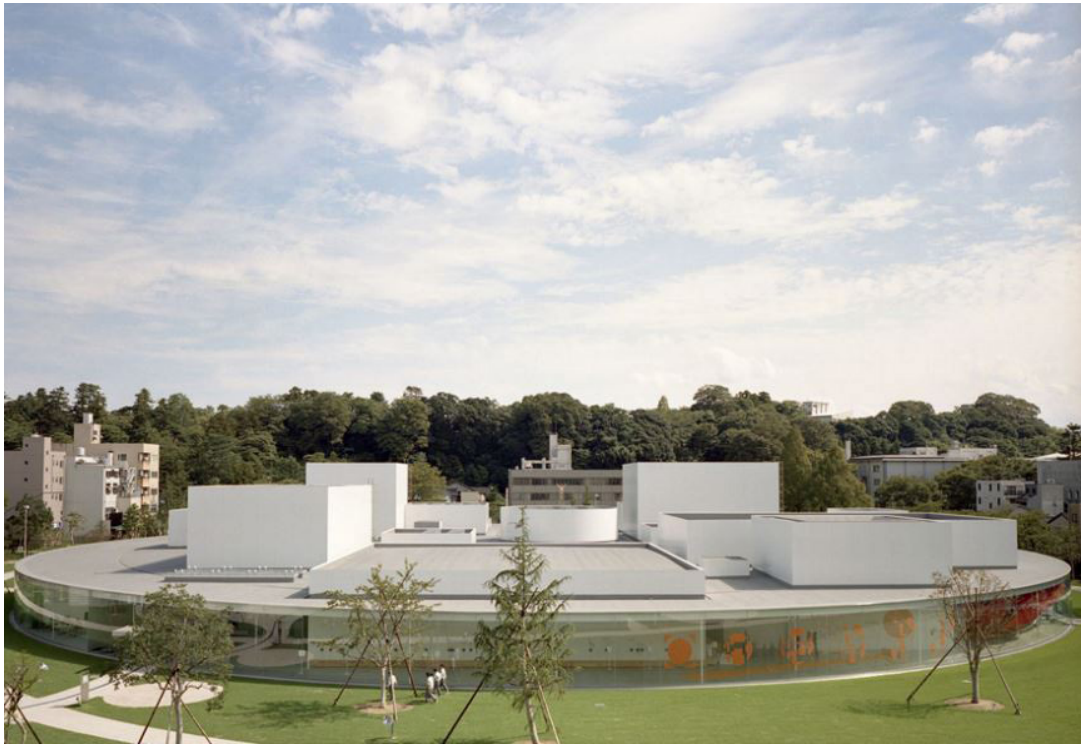
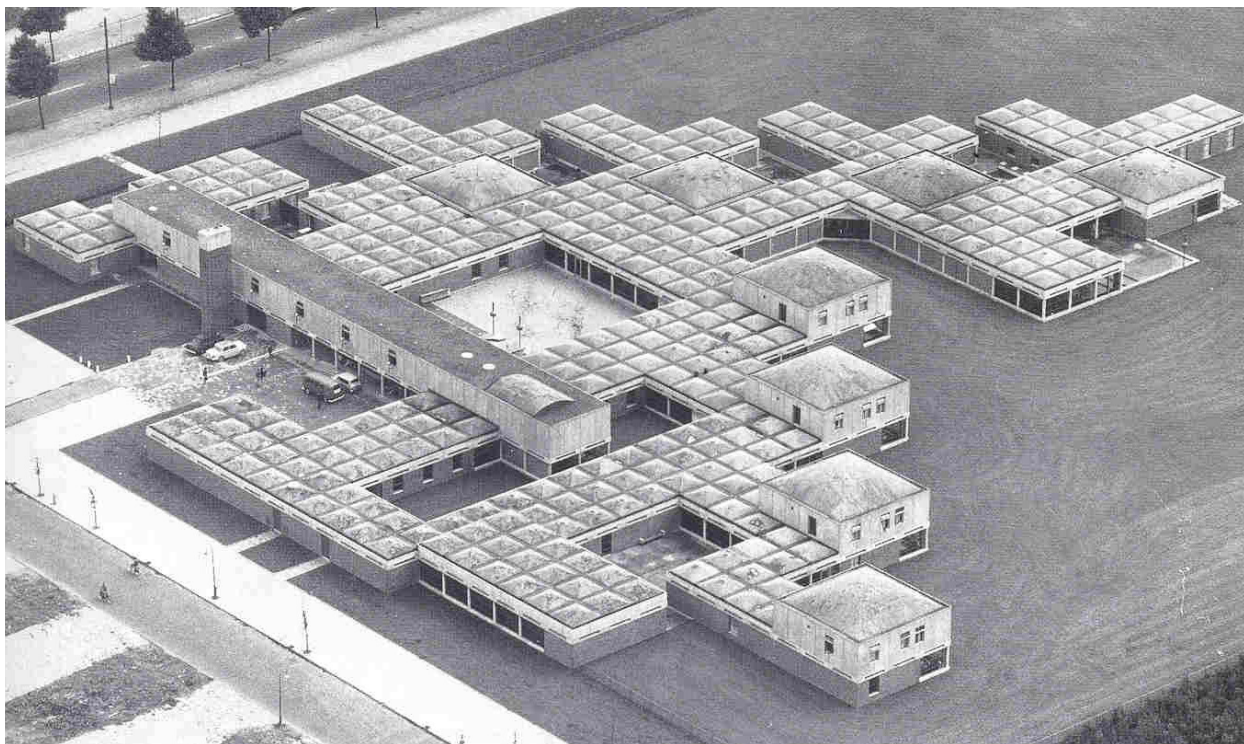
Dura-Europos, Syria 400 B.C



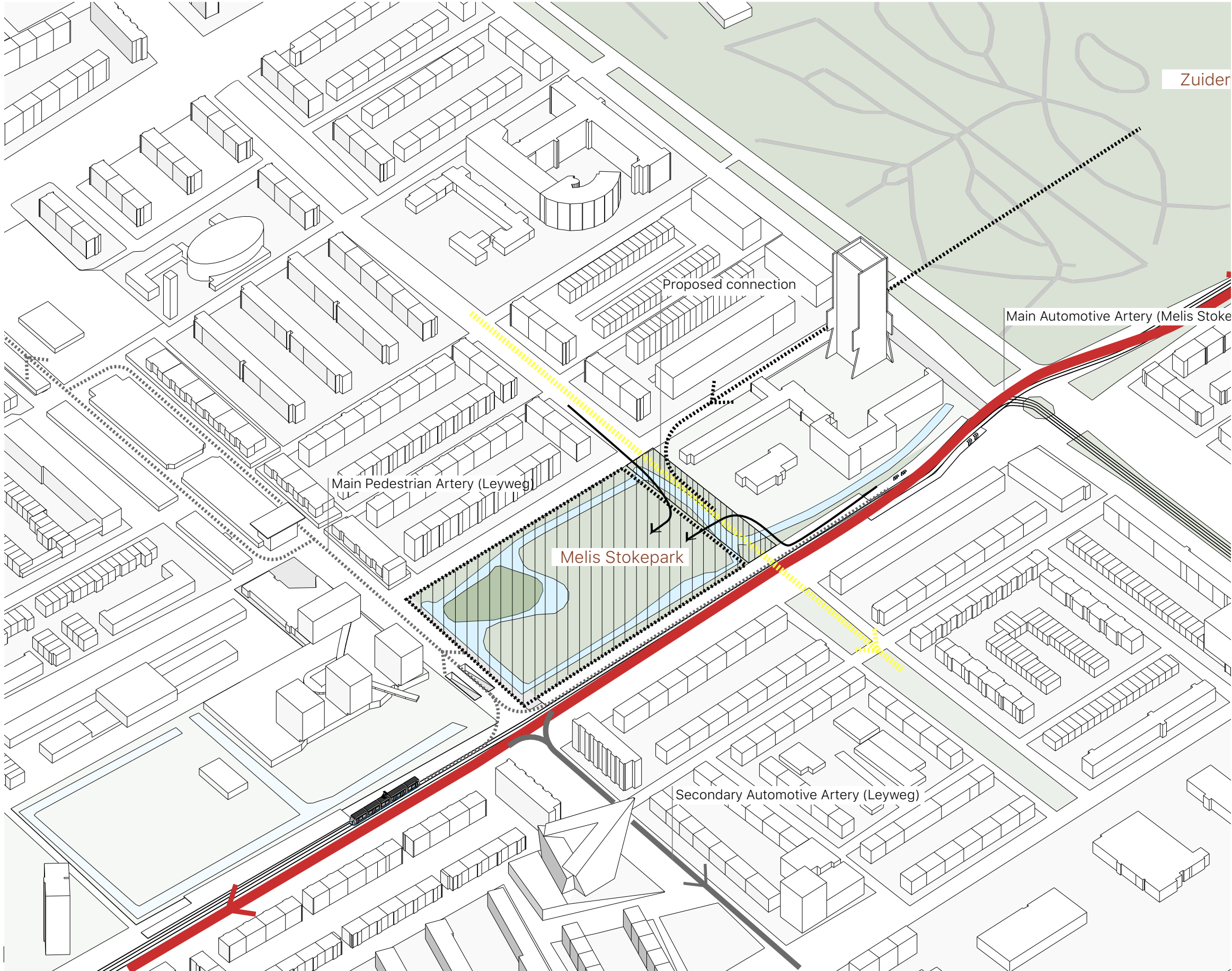
Commissioners' Plan of Manhattan 1811

Organization of grids

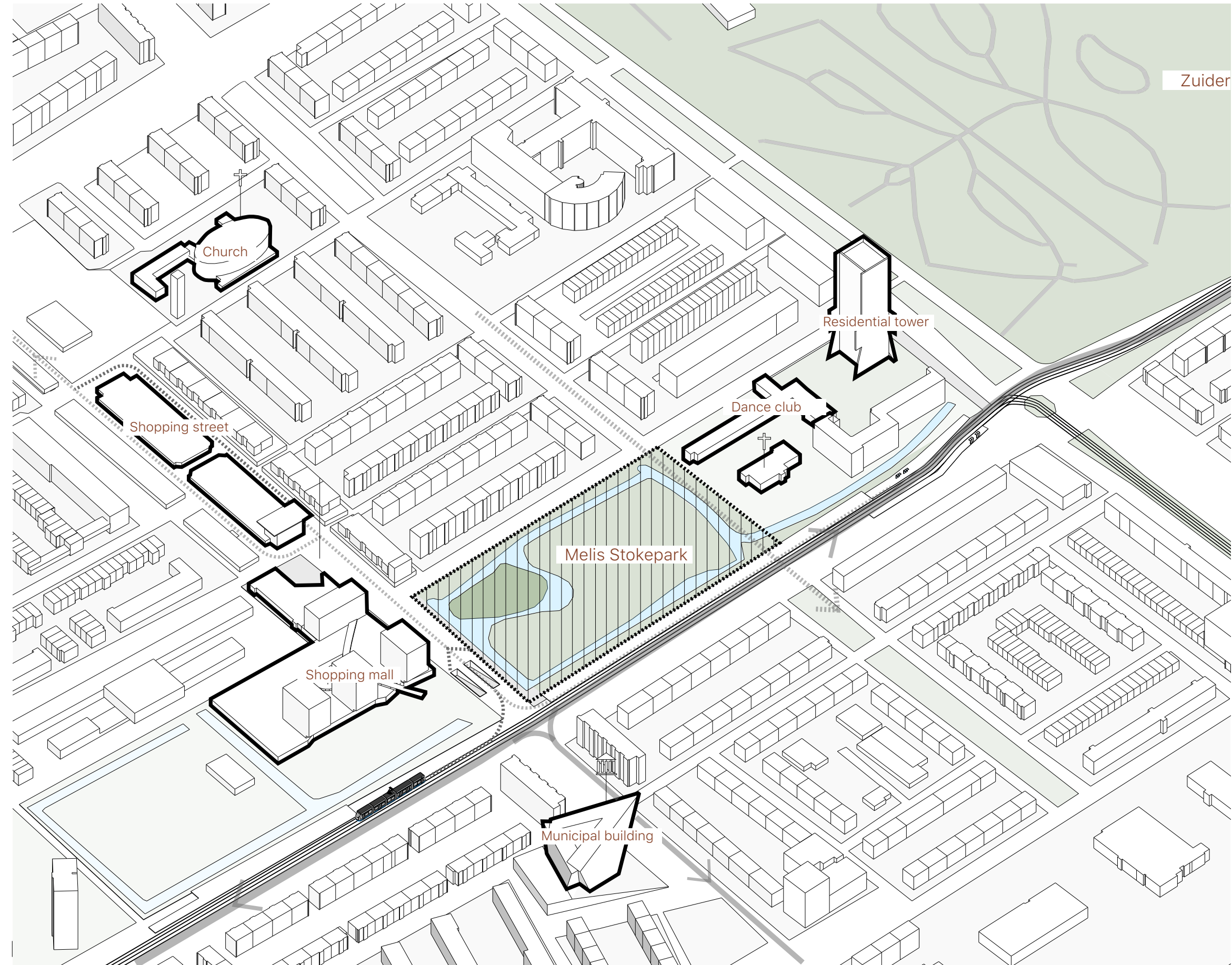
Modern Interpretation

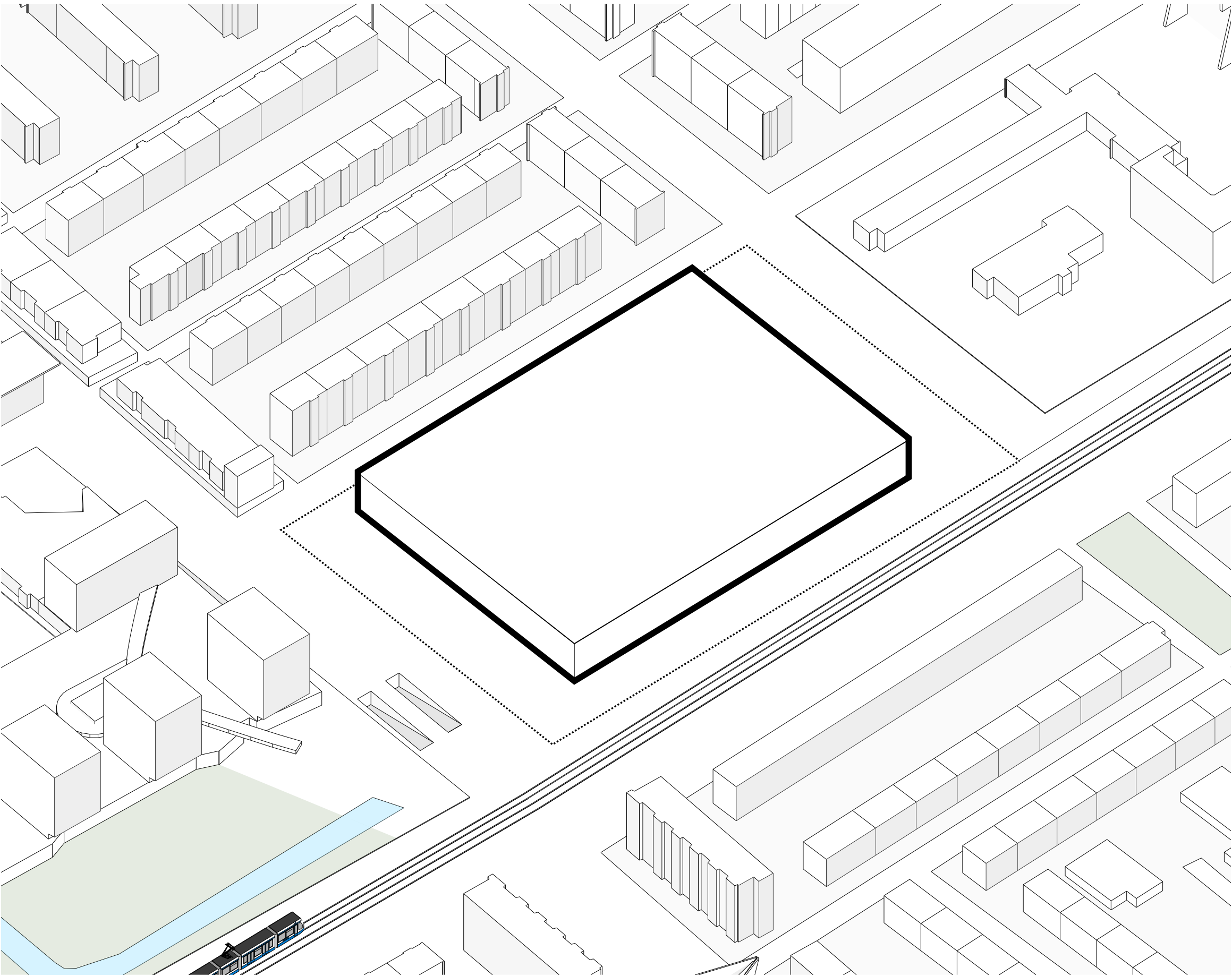


Final Design

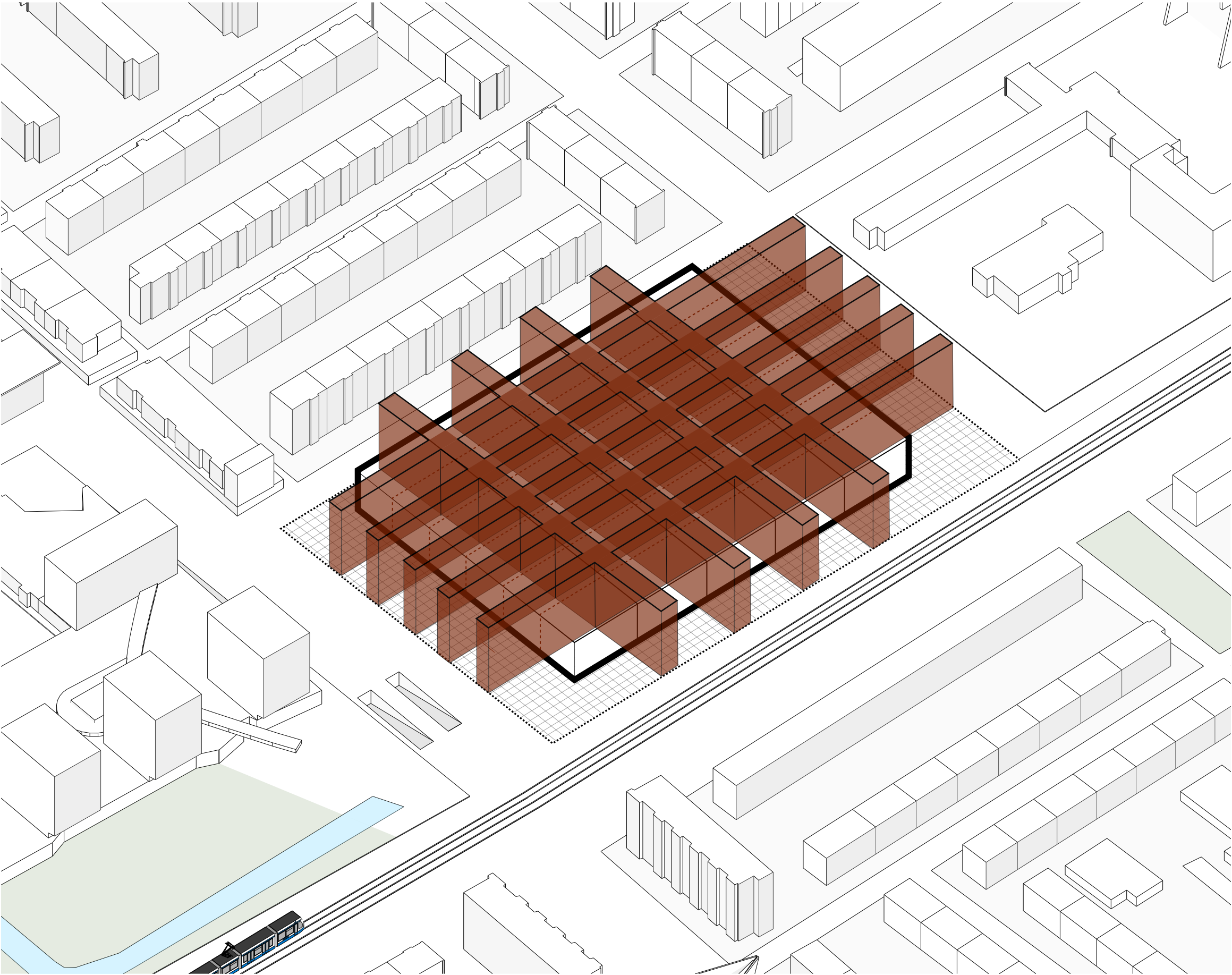


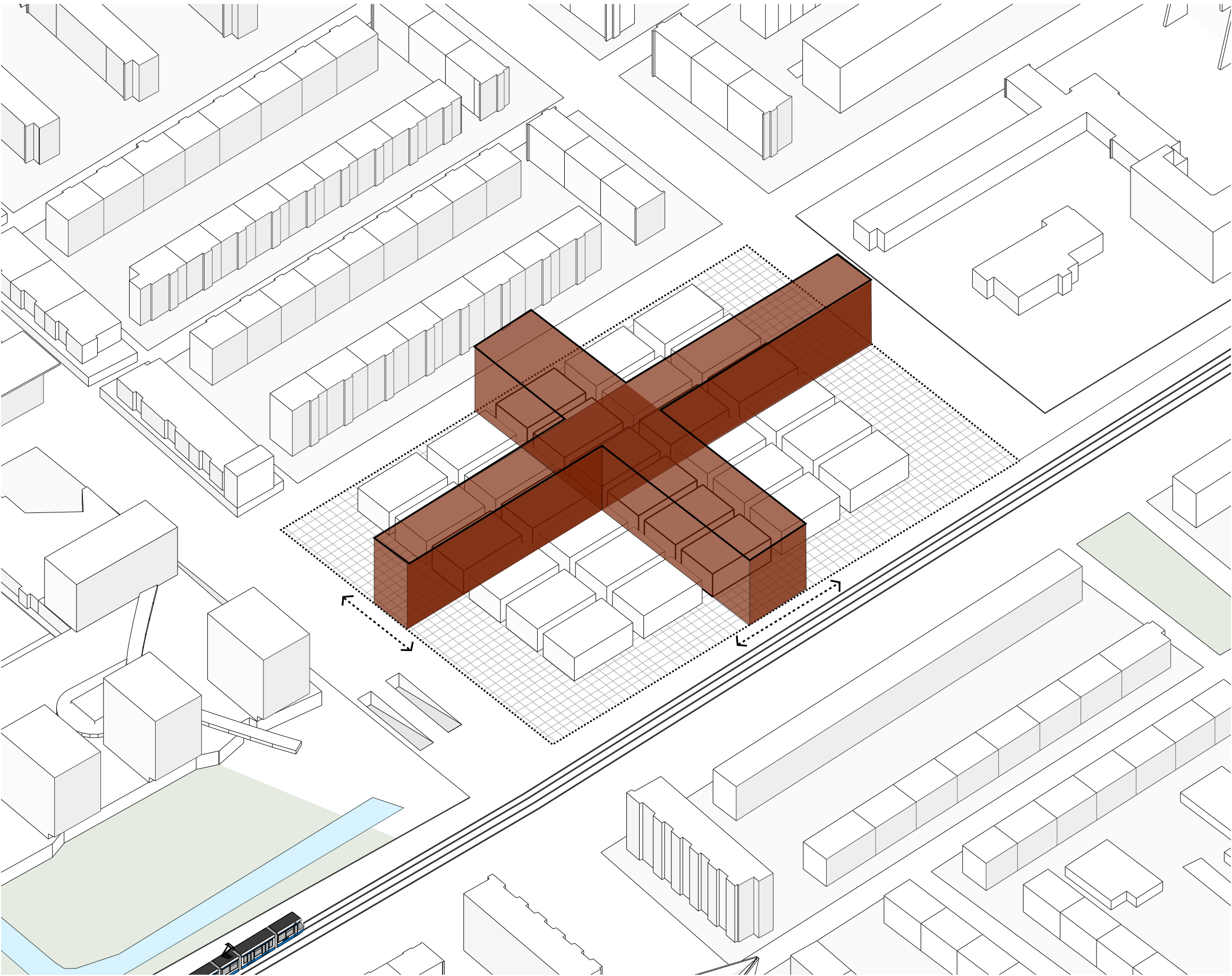
- Main Automotive Artery (Melis Stokelaan)
- Secondary Automotive Artery (Leyweg)
- Main Pedestrian Artery (Leyweg)
- Proposed connection

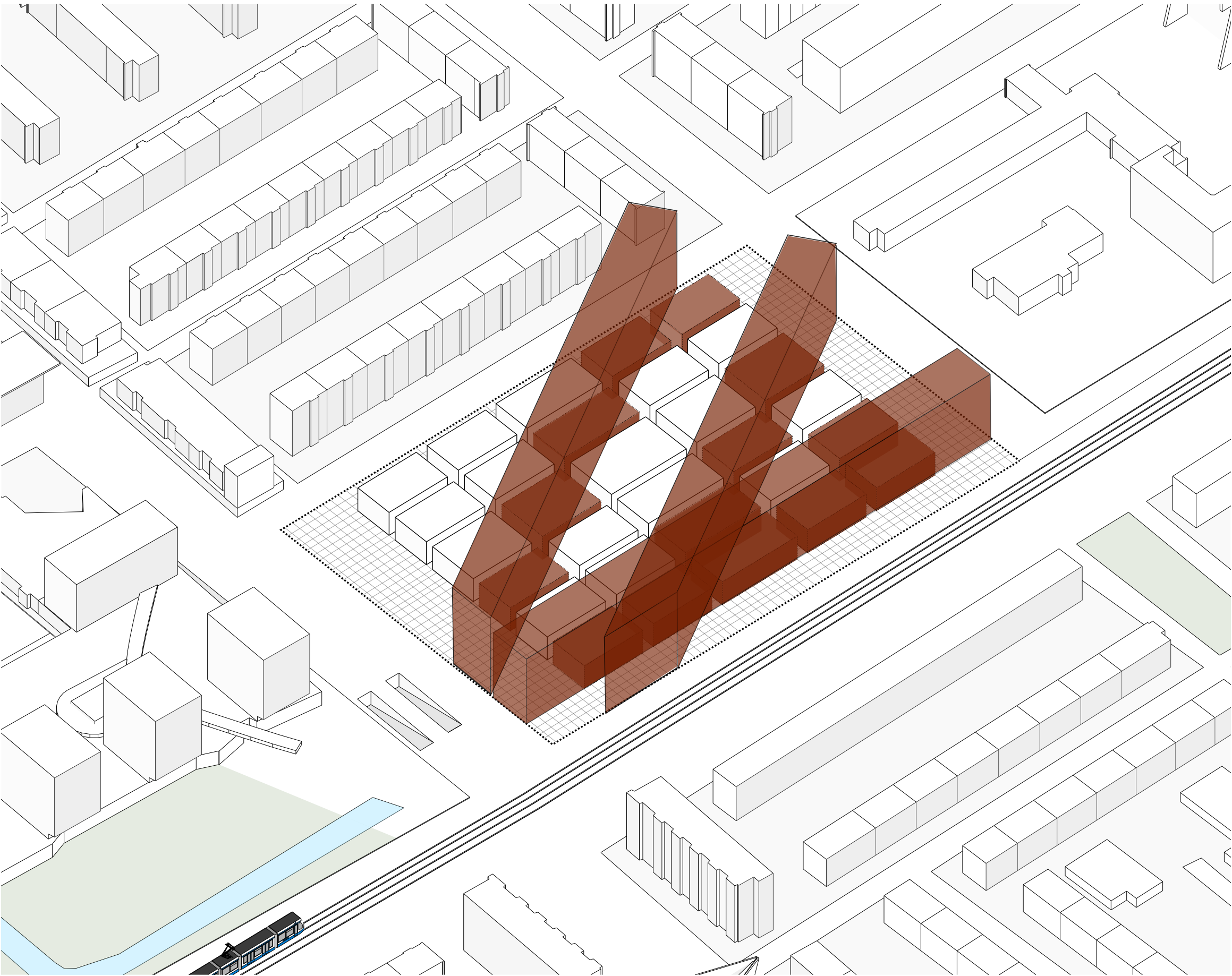




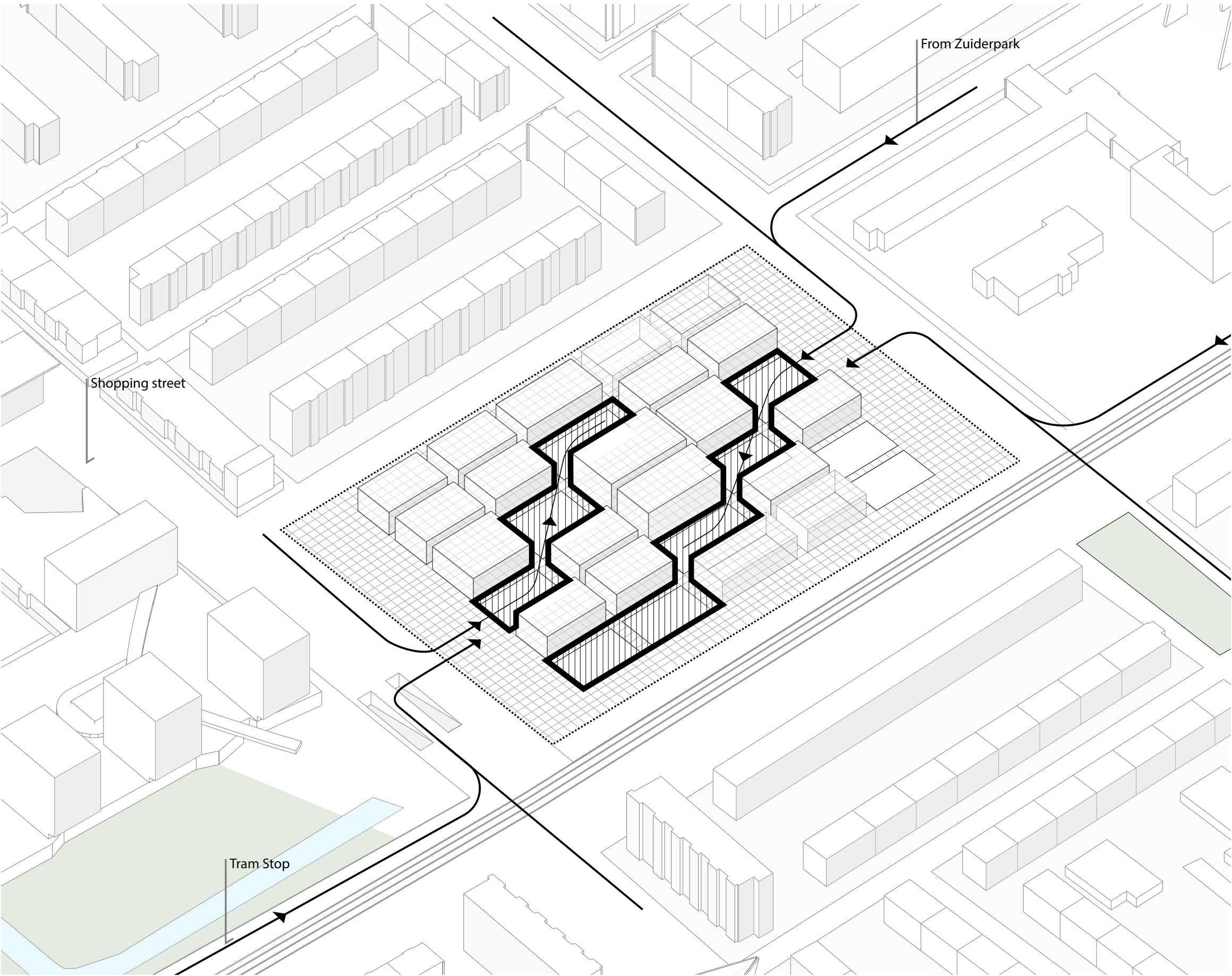
Perpendicular Axis's



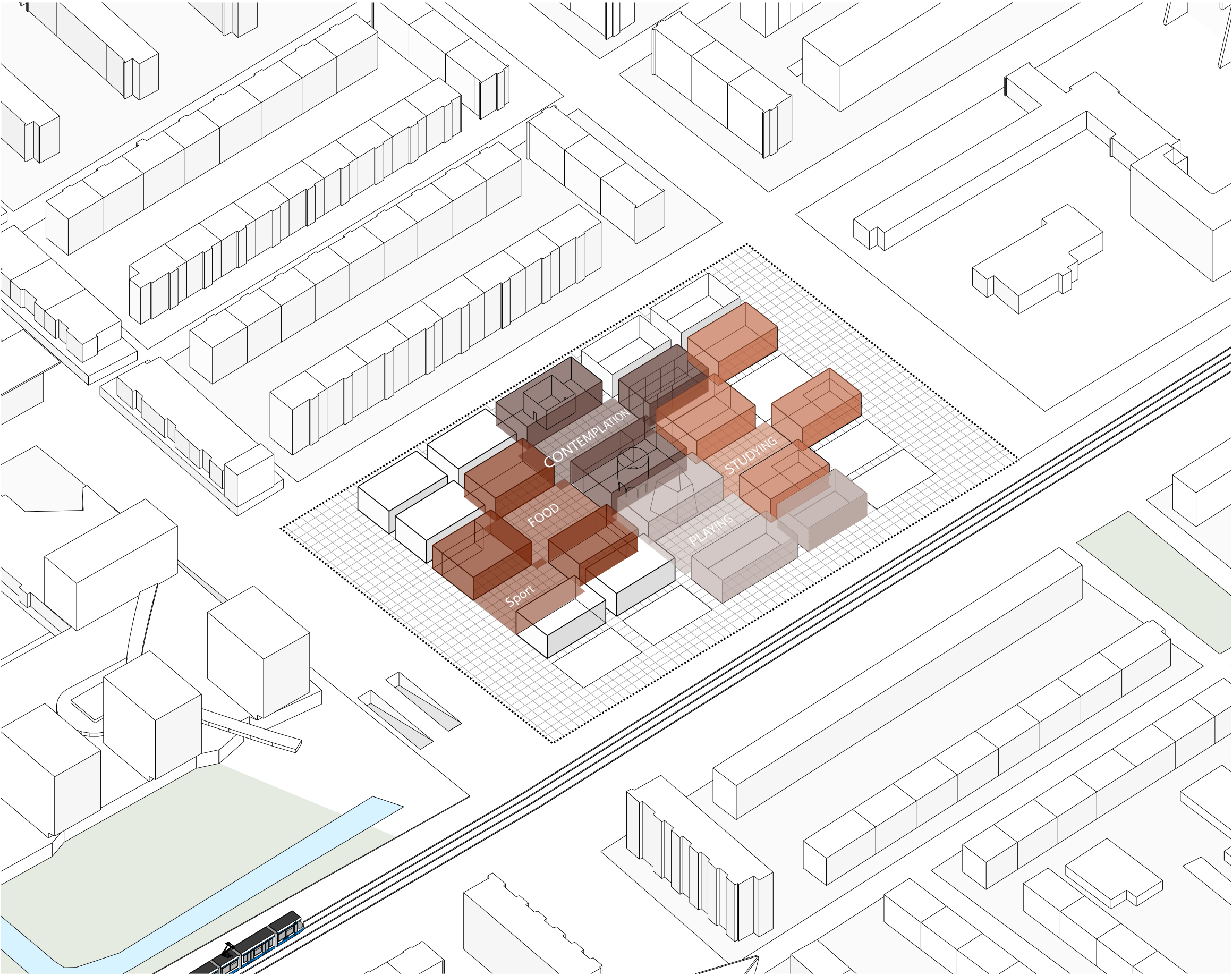




Sequence of Squares

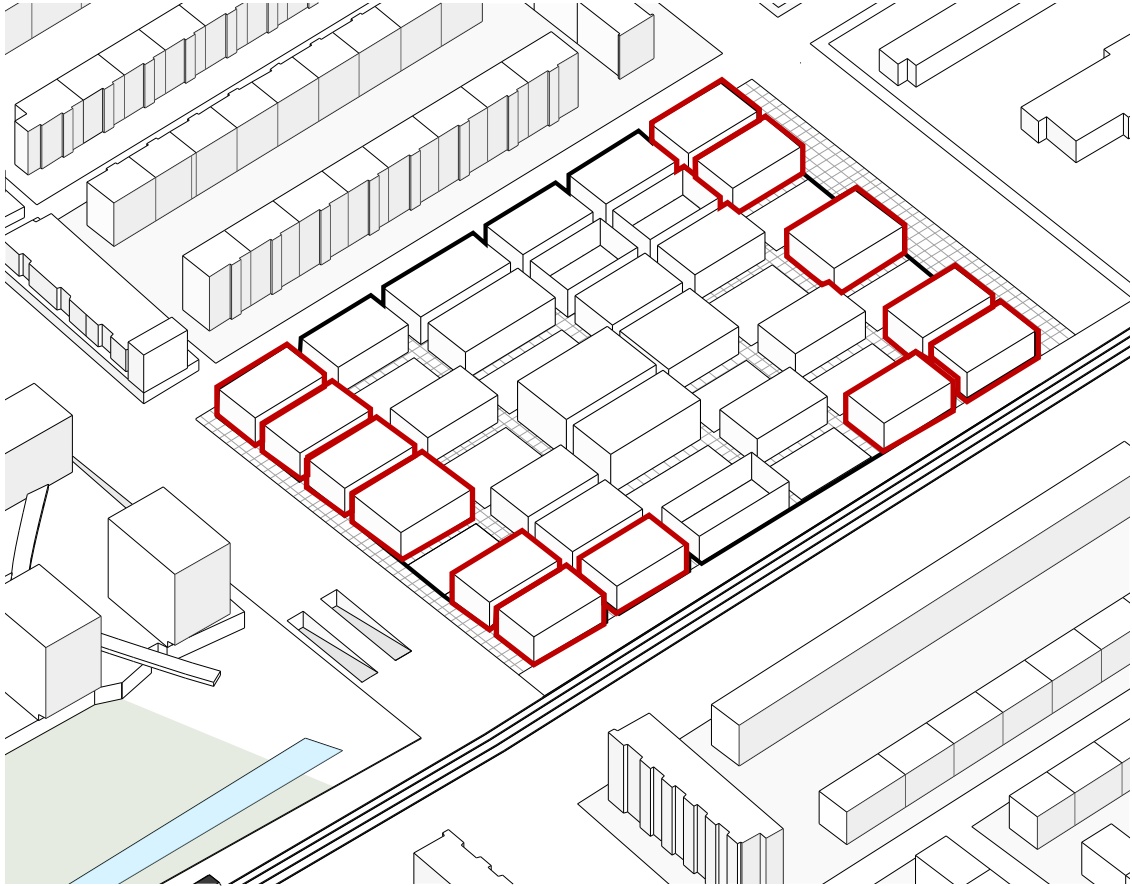
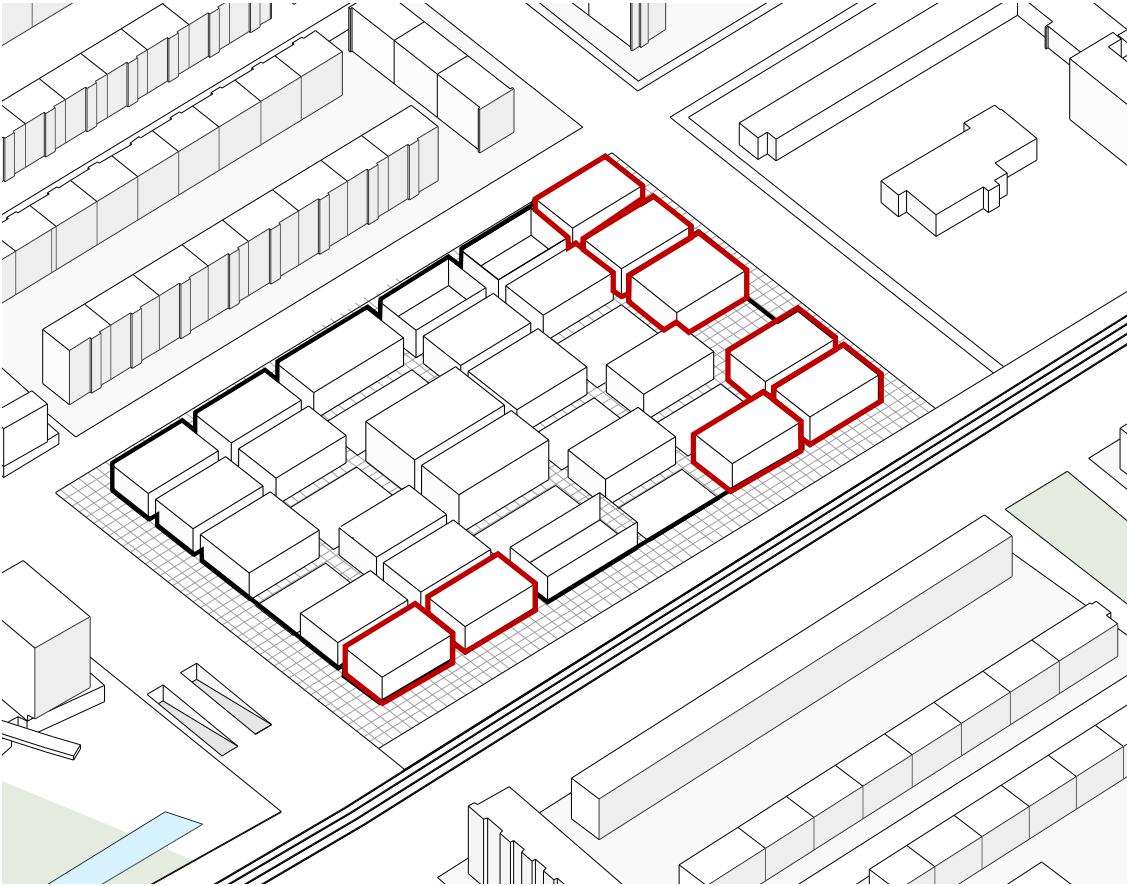
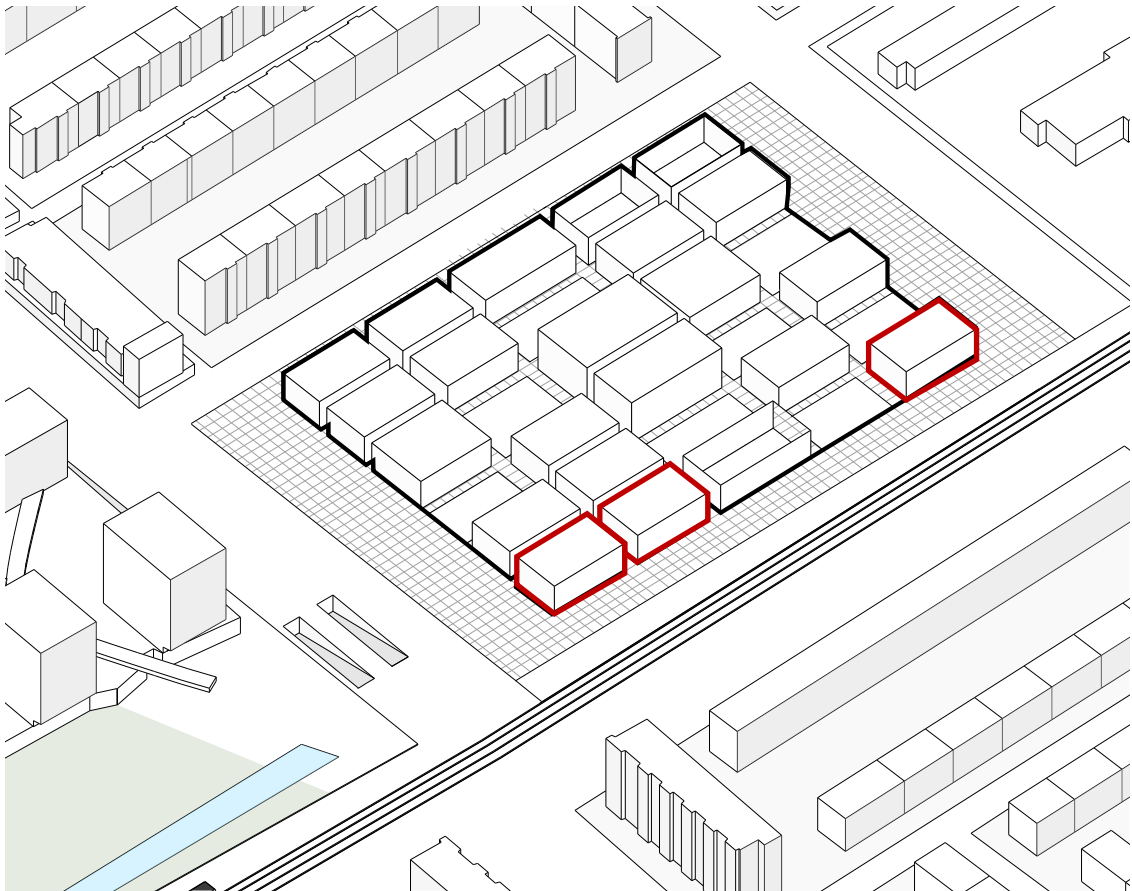
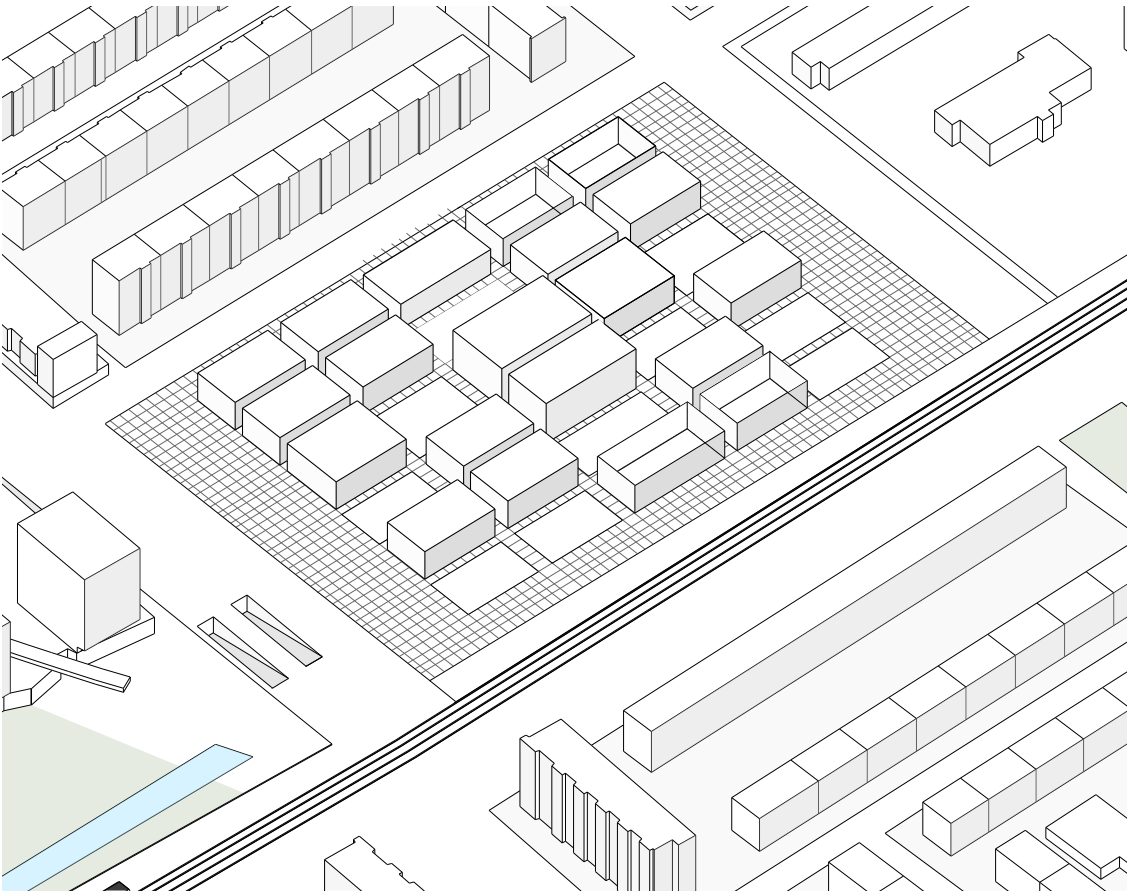


Assemblage of Activities

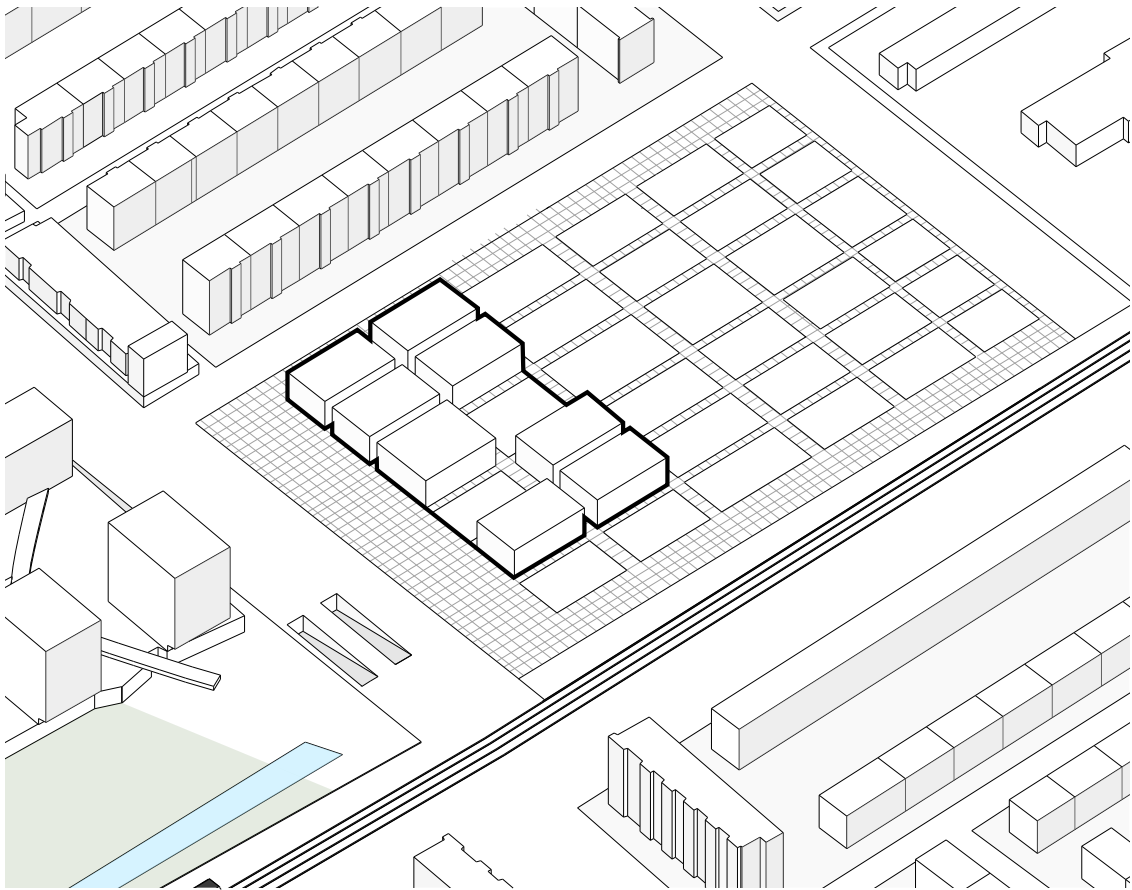
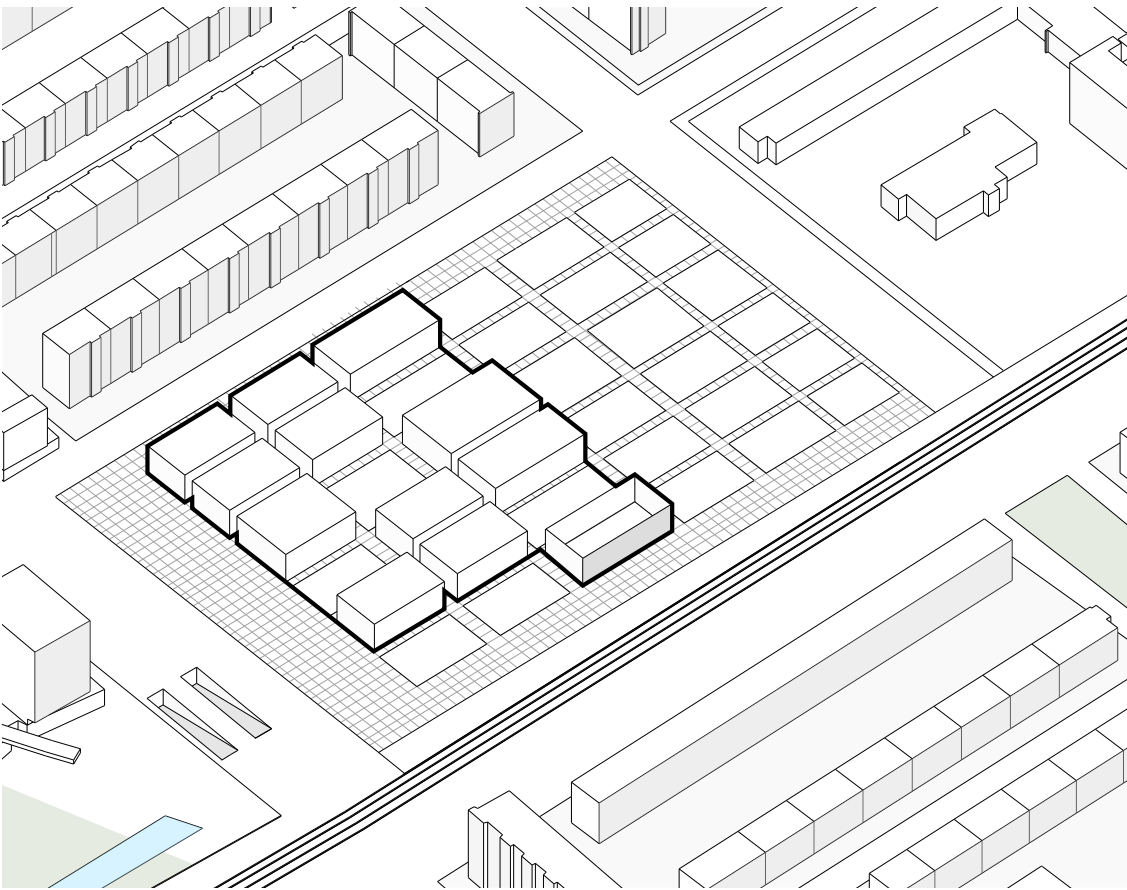
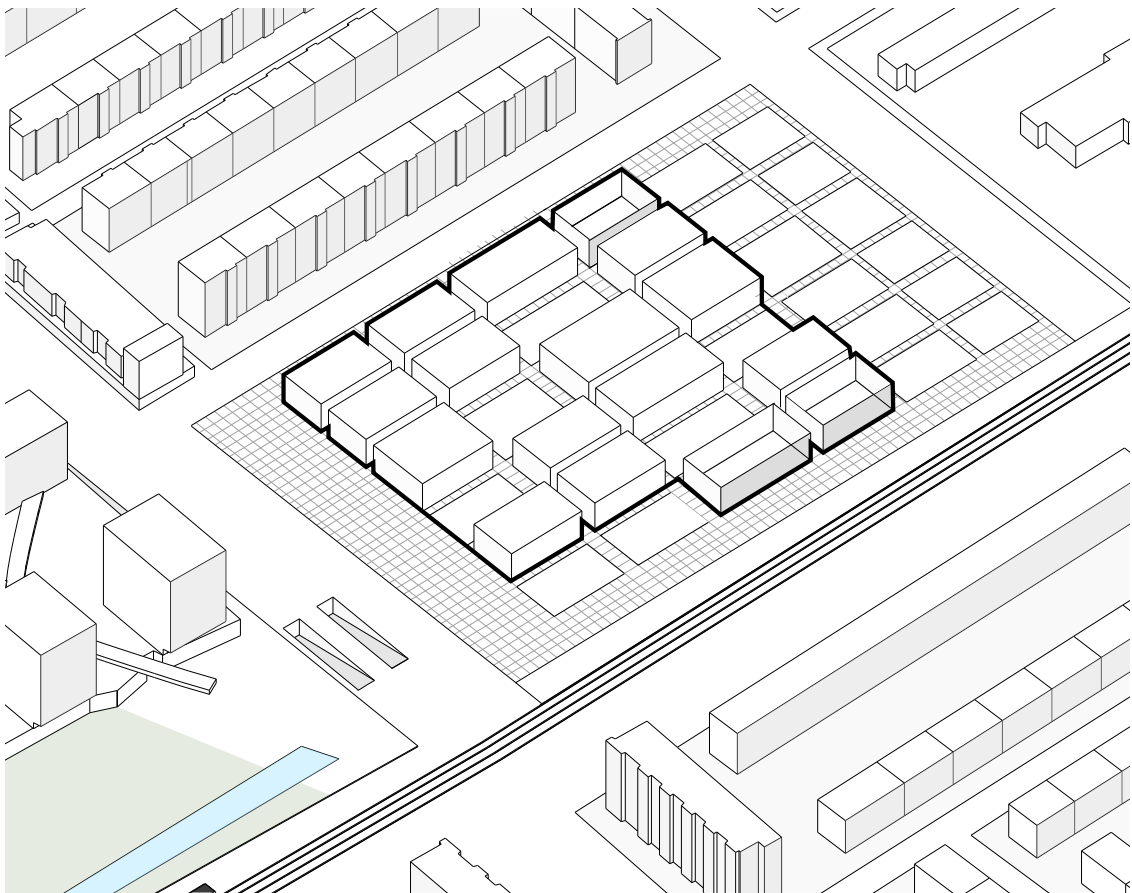
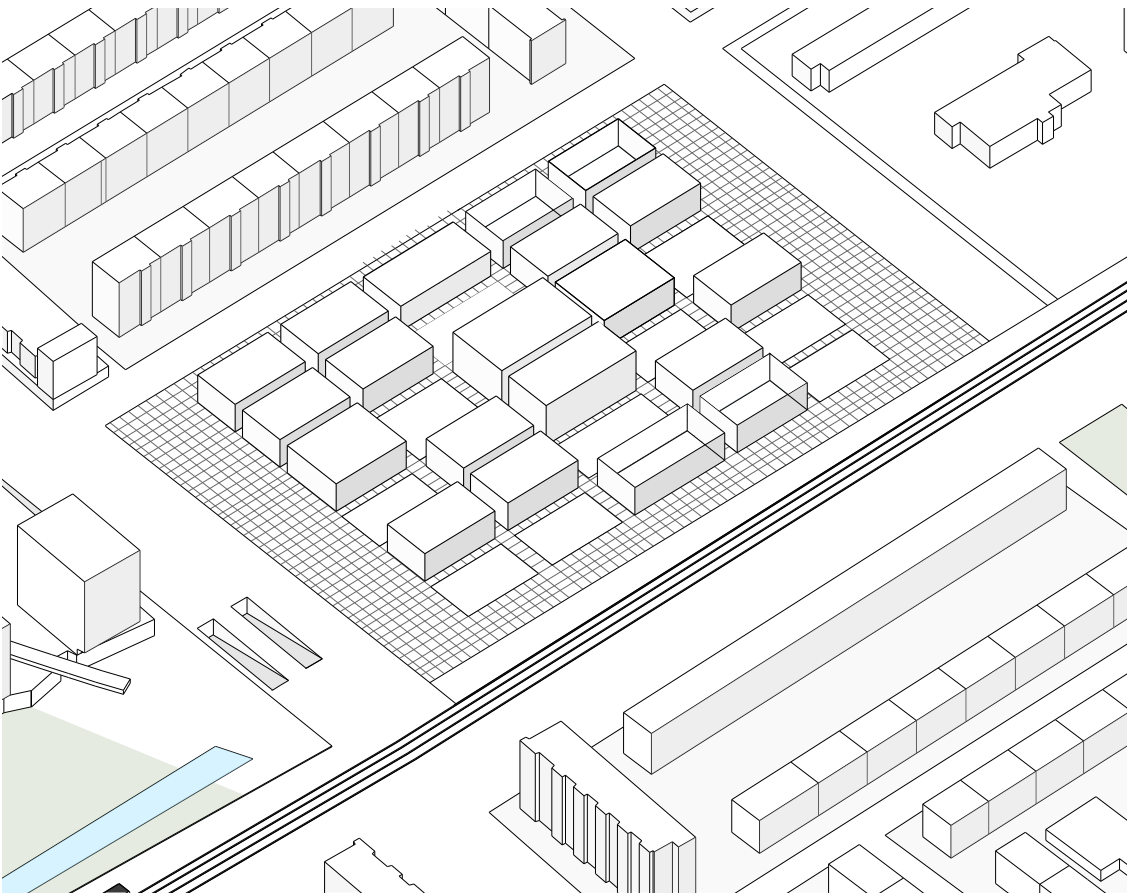


Flexibility of the Grid

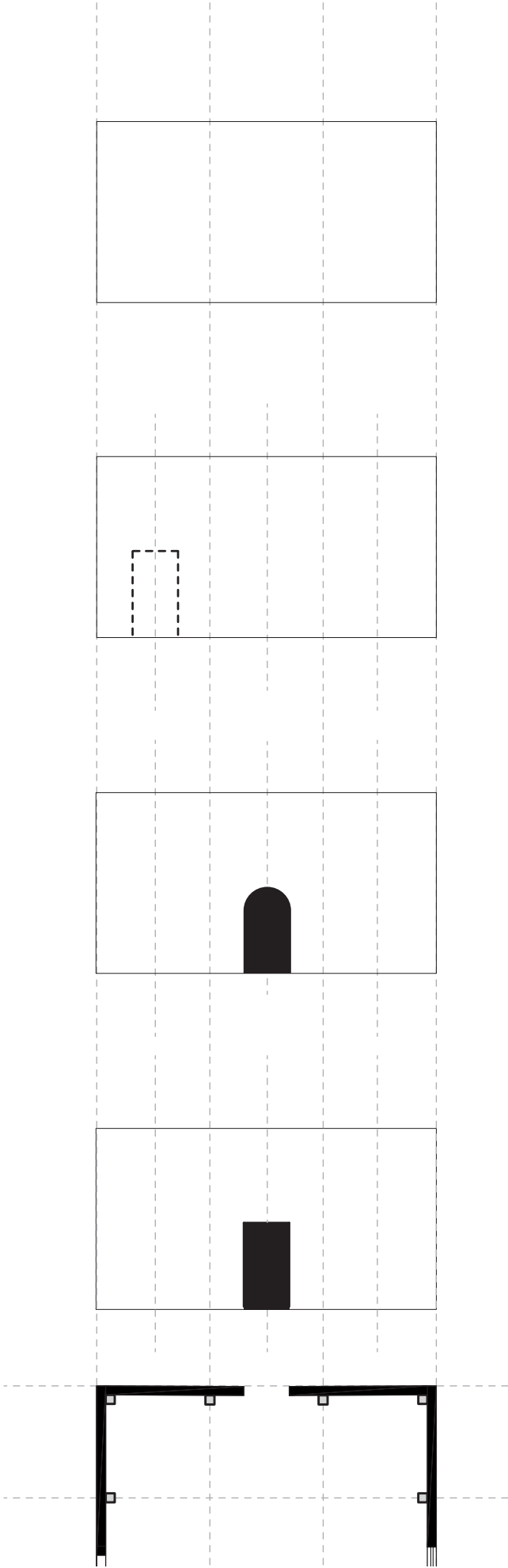
Expansion



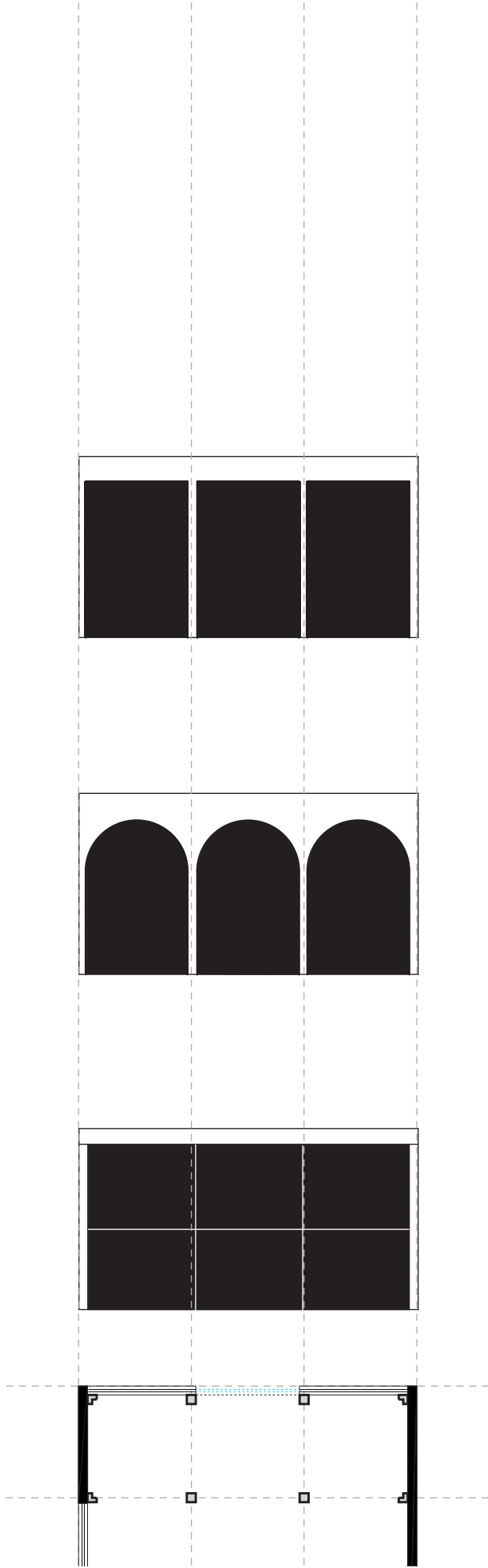
Reduction



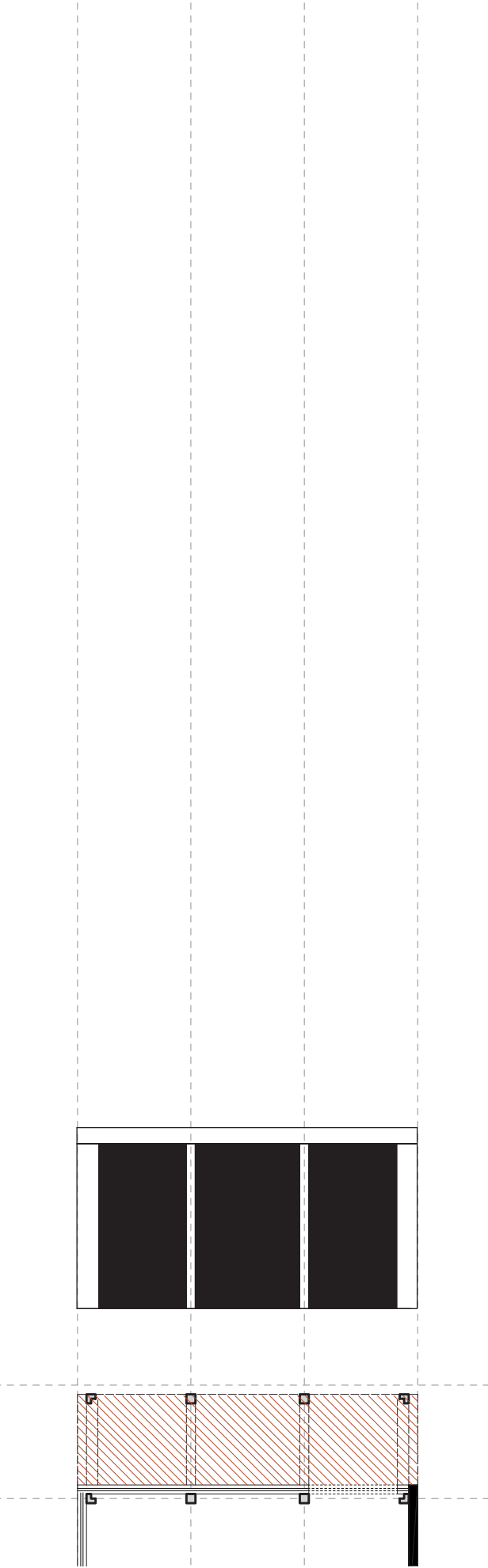
Urban Cultural indications



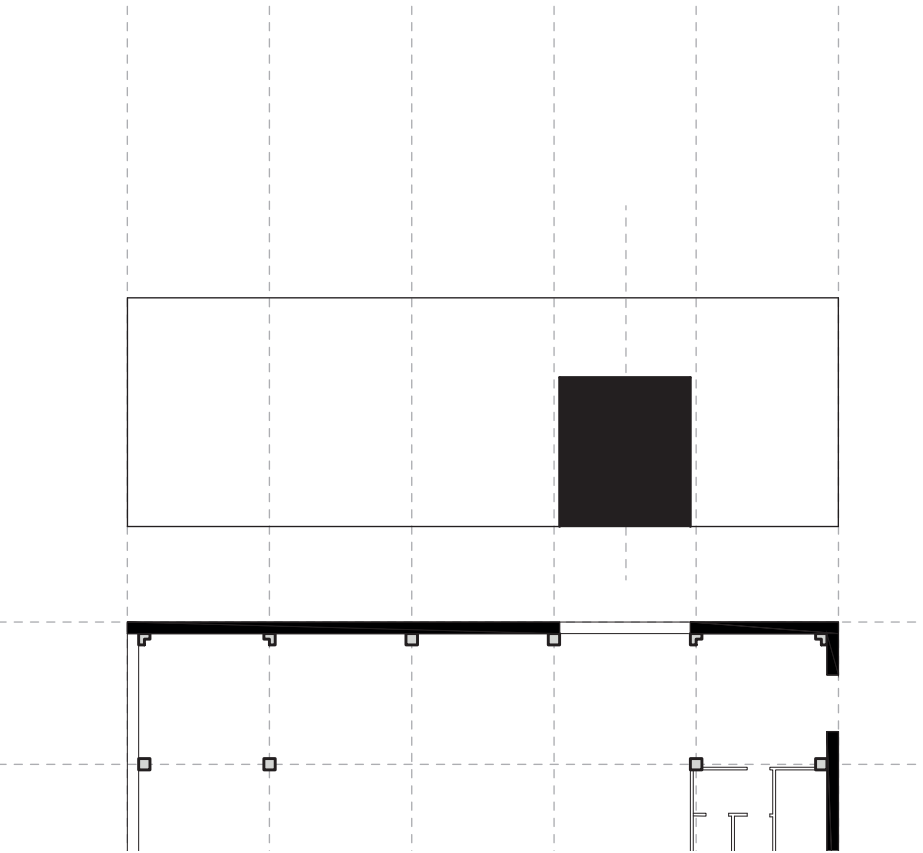
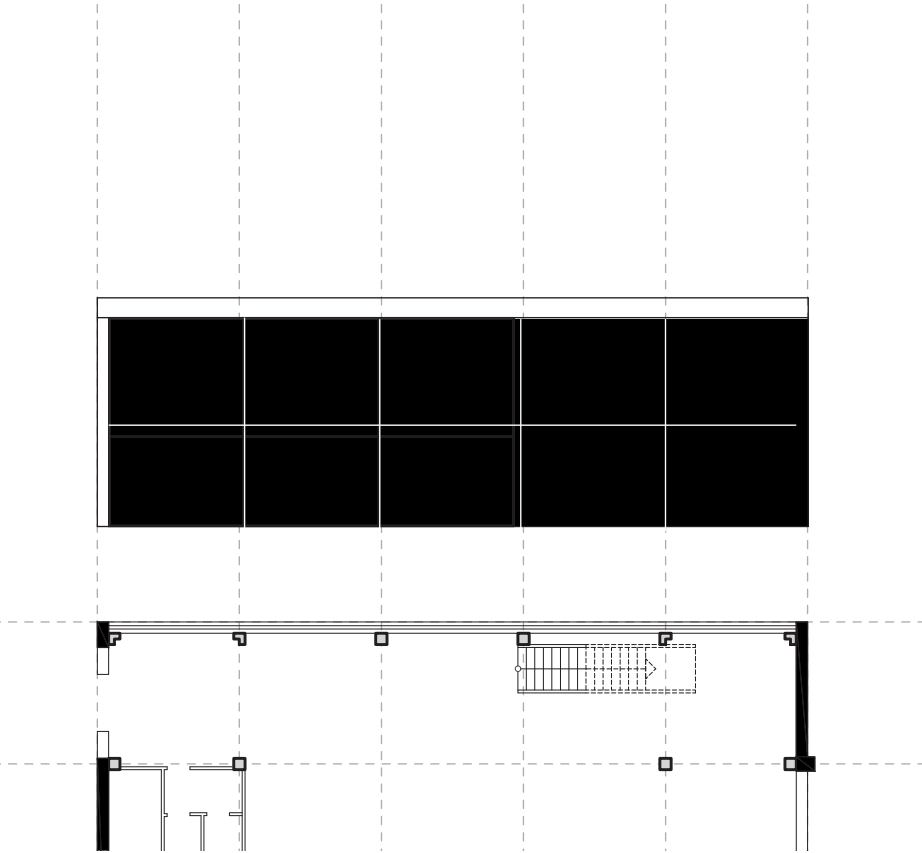
Close facade



Transparent/open facade



Facade with transitional space





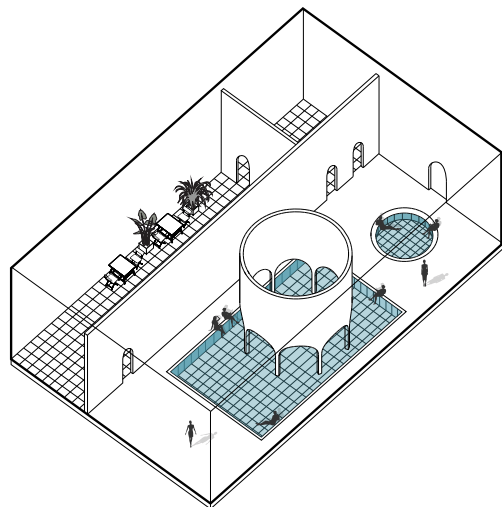


Public Condenser, as sum of Spaces of Familiarity

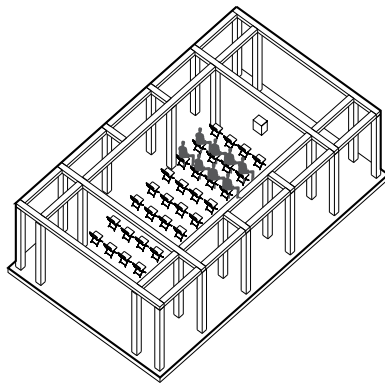


- | | | |
|---|--|---|
| Cultural activities | Contemplation zone | Learning + Studying |
| Sport, gaming zone | Workplaces | Administrative |

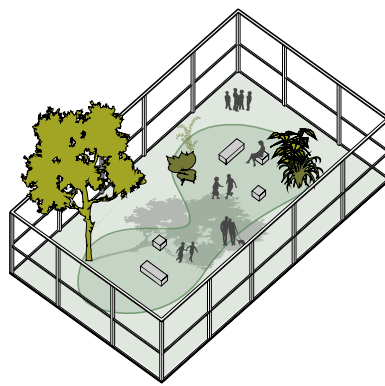
Spaces of Familiarity, Products of Social and Cultural Activities



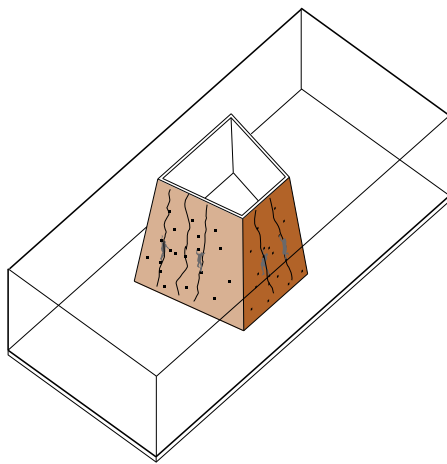
Hammam/ Physical therapy



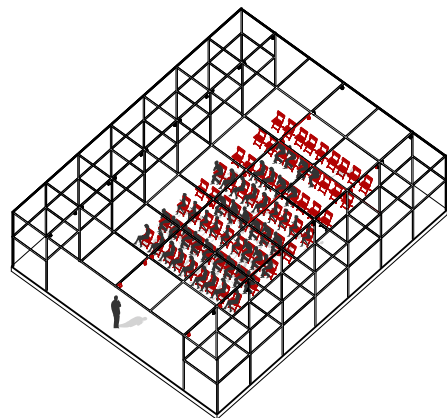
Religious space



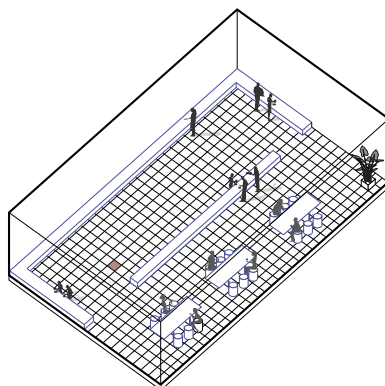
Gated playground



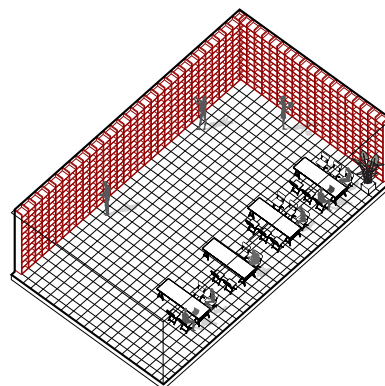
Climbing tower



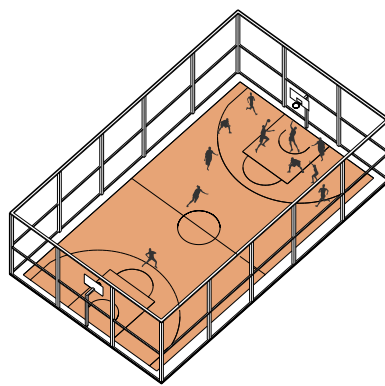
Concert



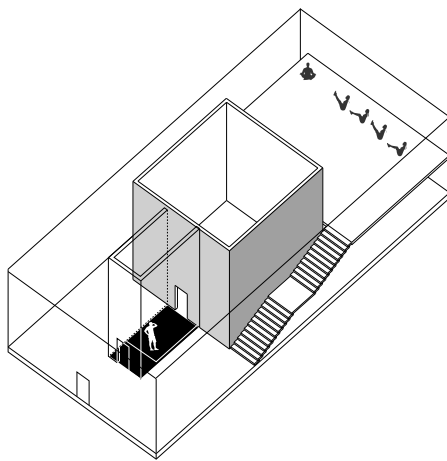
Kitchen



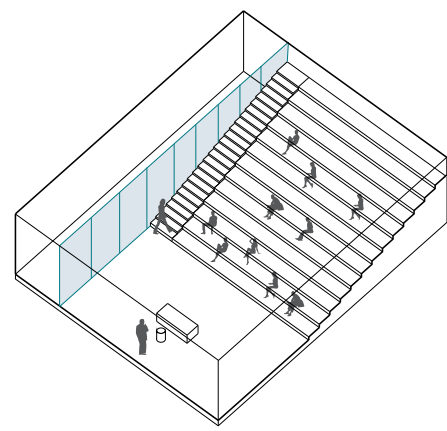
Study space and library



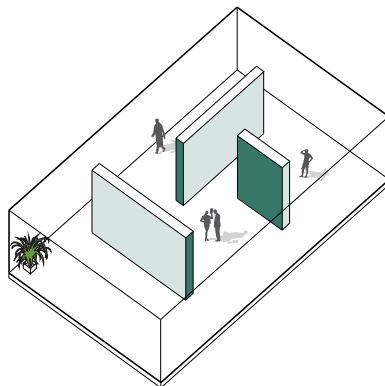
Basketball court



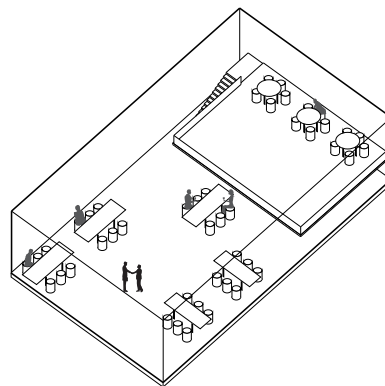
Contemplation space



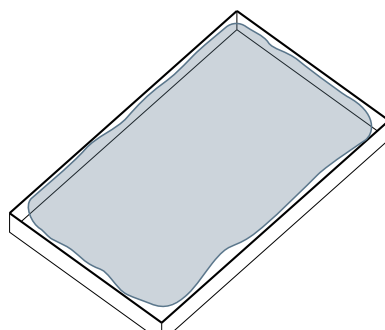
Auditorium



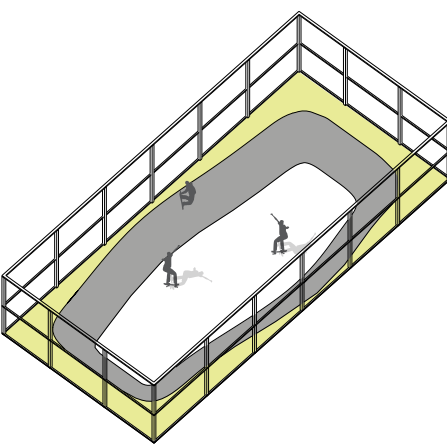
Exhibitions



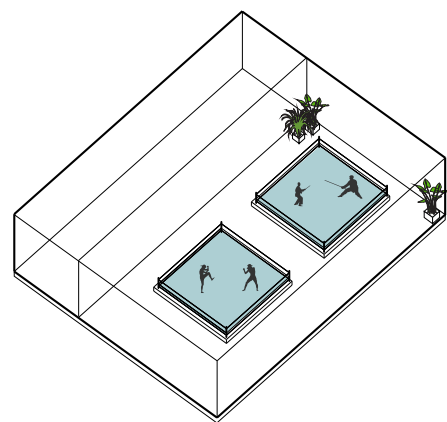
Workshop spaces



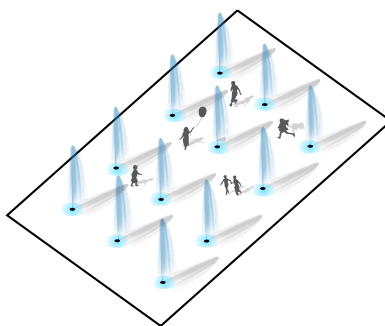
Water surface



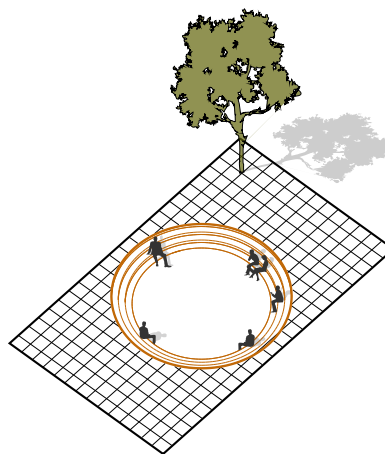
Skateboard rink



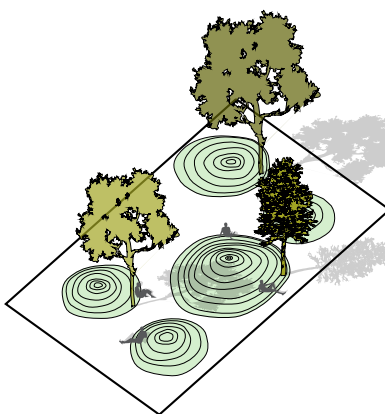
Sport



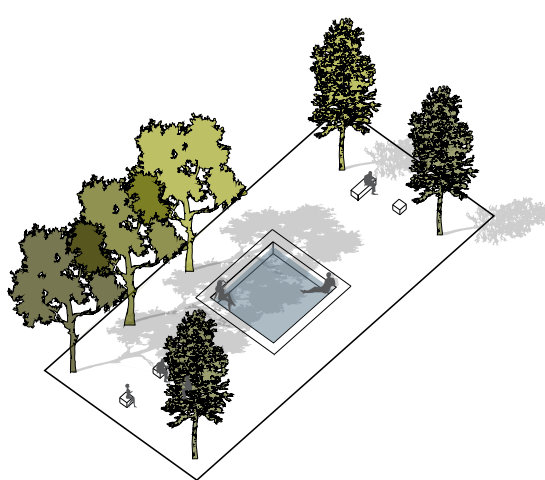
Dancing fountains



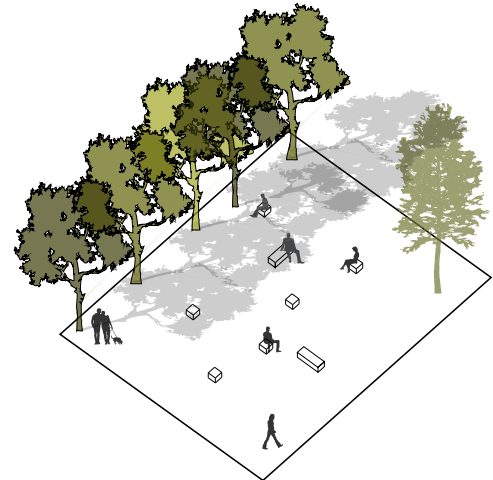
Theater



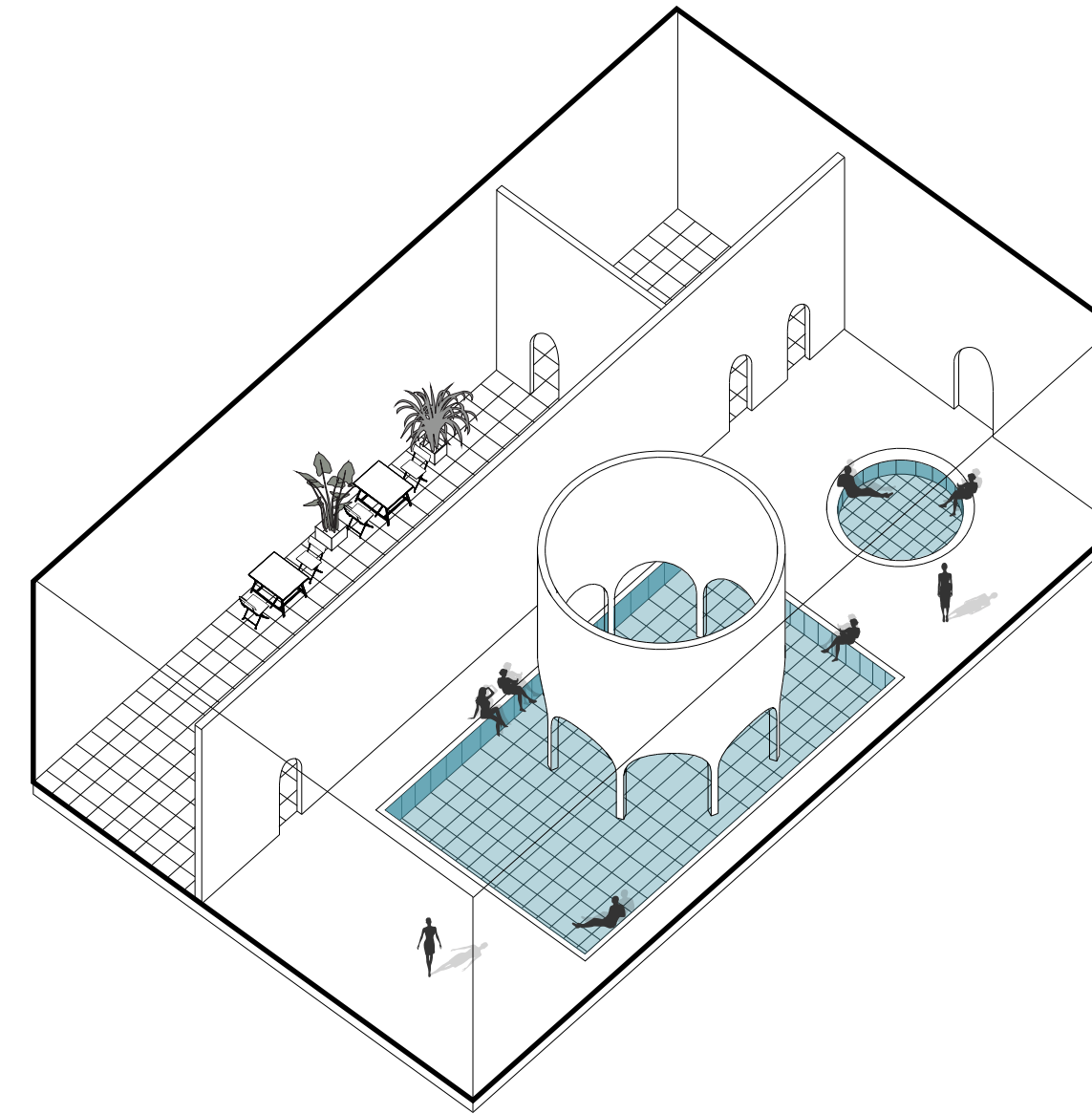
Outside relaxing



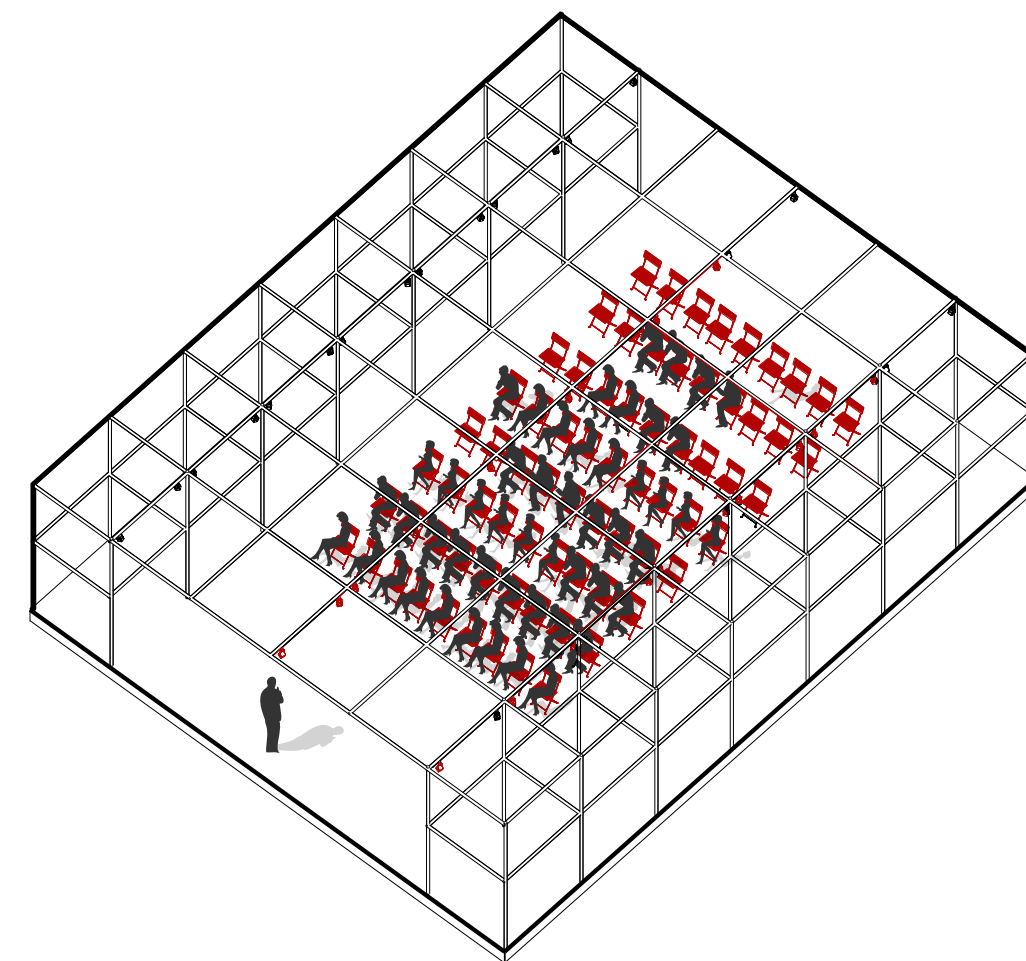
Urban Spa



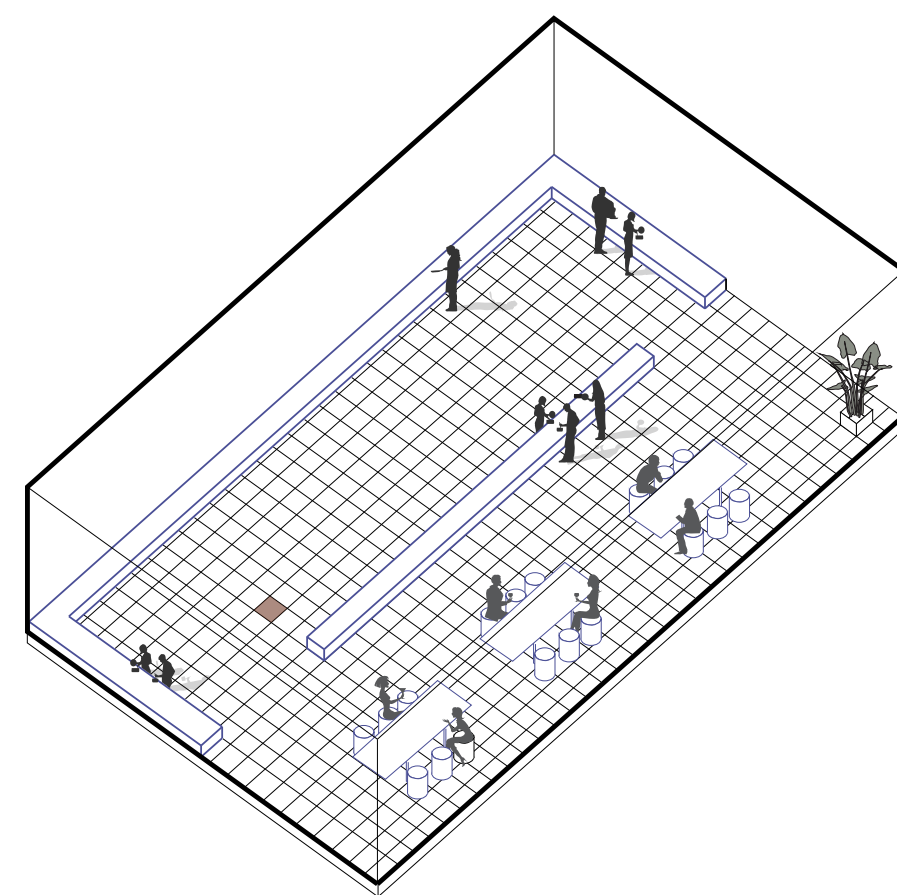
Urban square



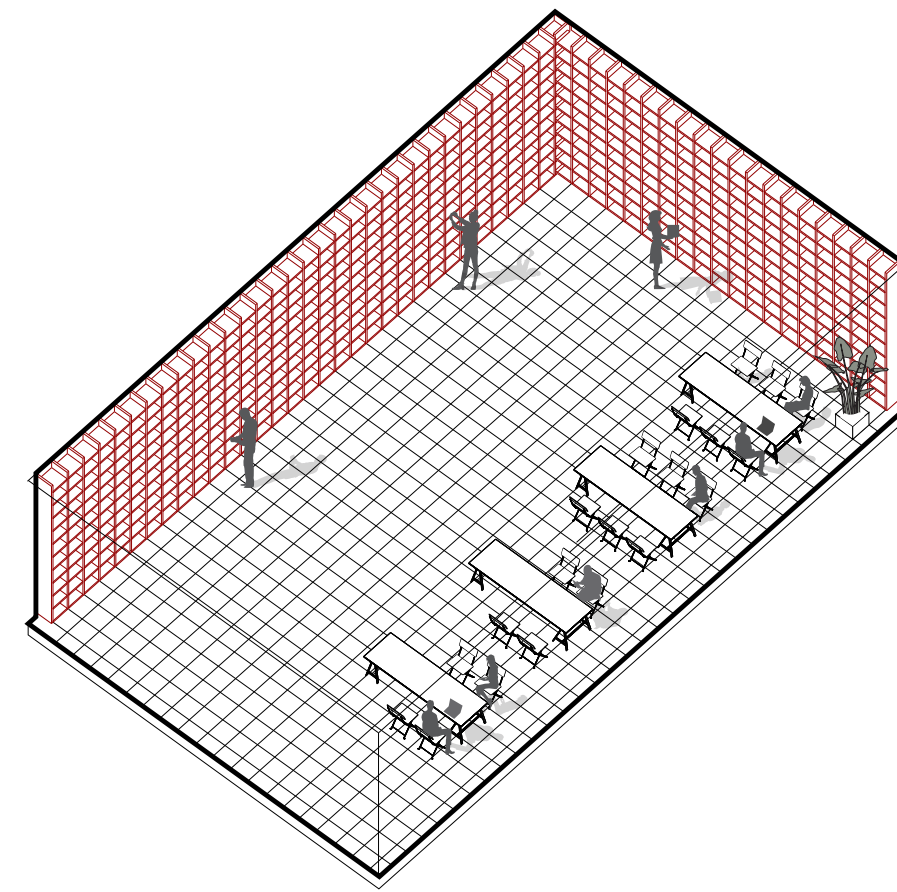
Hammam/ Physical Therapy
Center



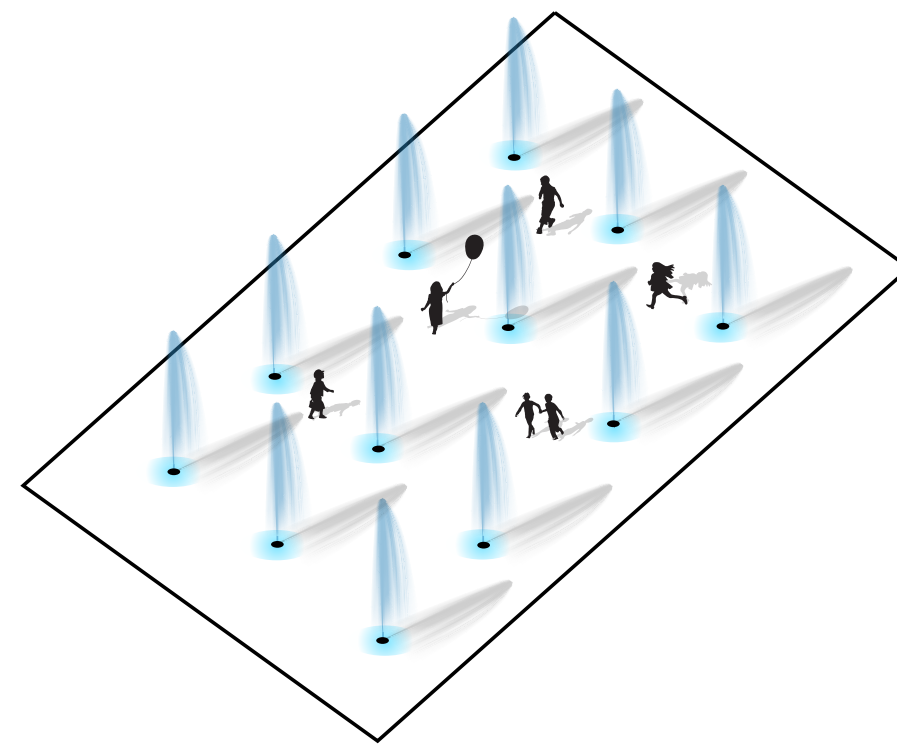
Concert platform



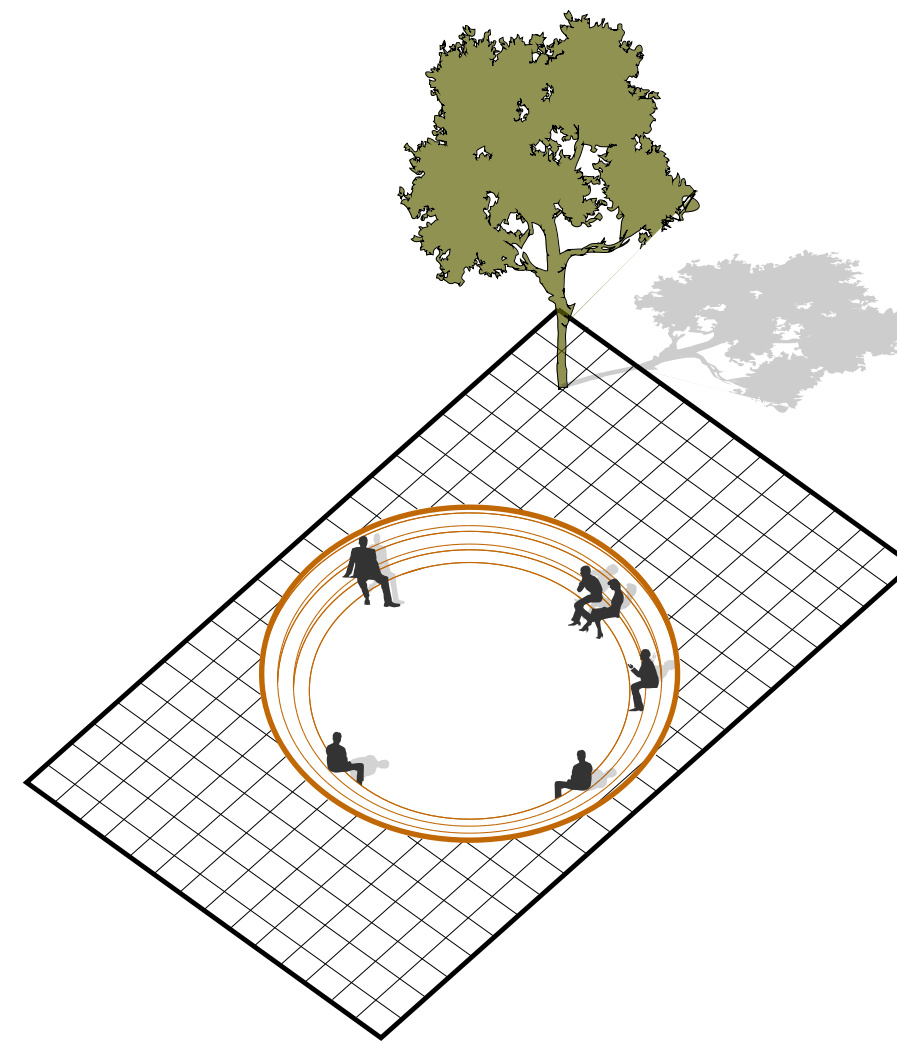
Kitchen



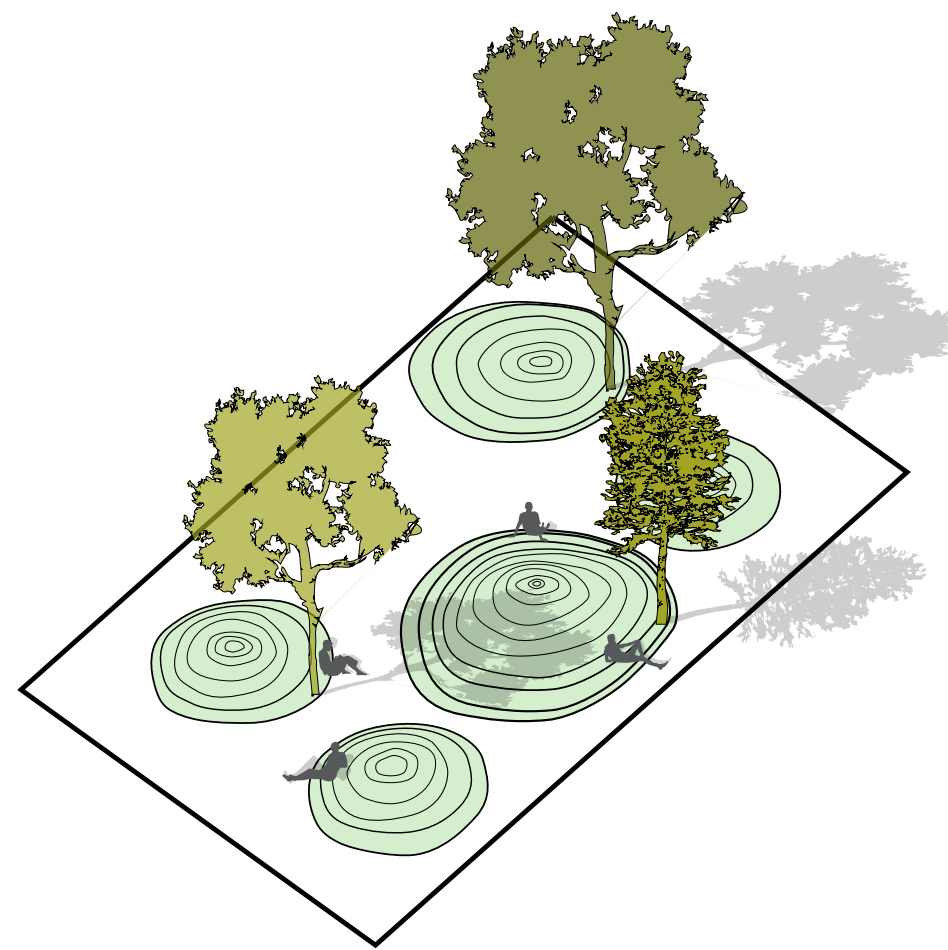
Library and studying space



Dancing fountains

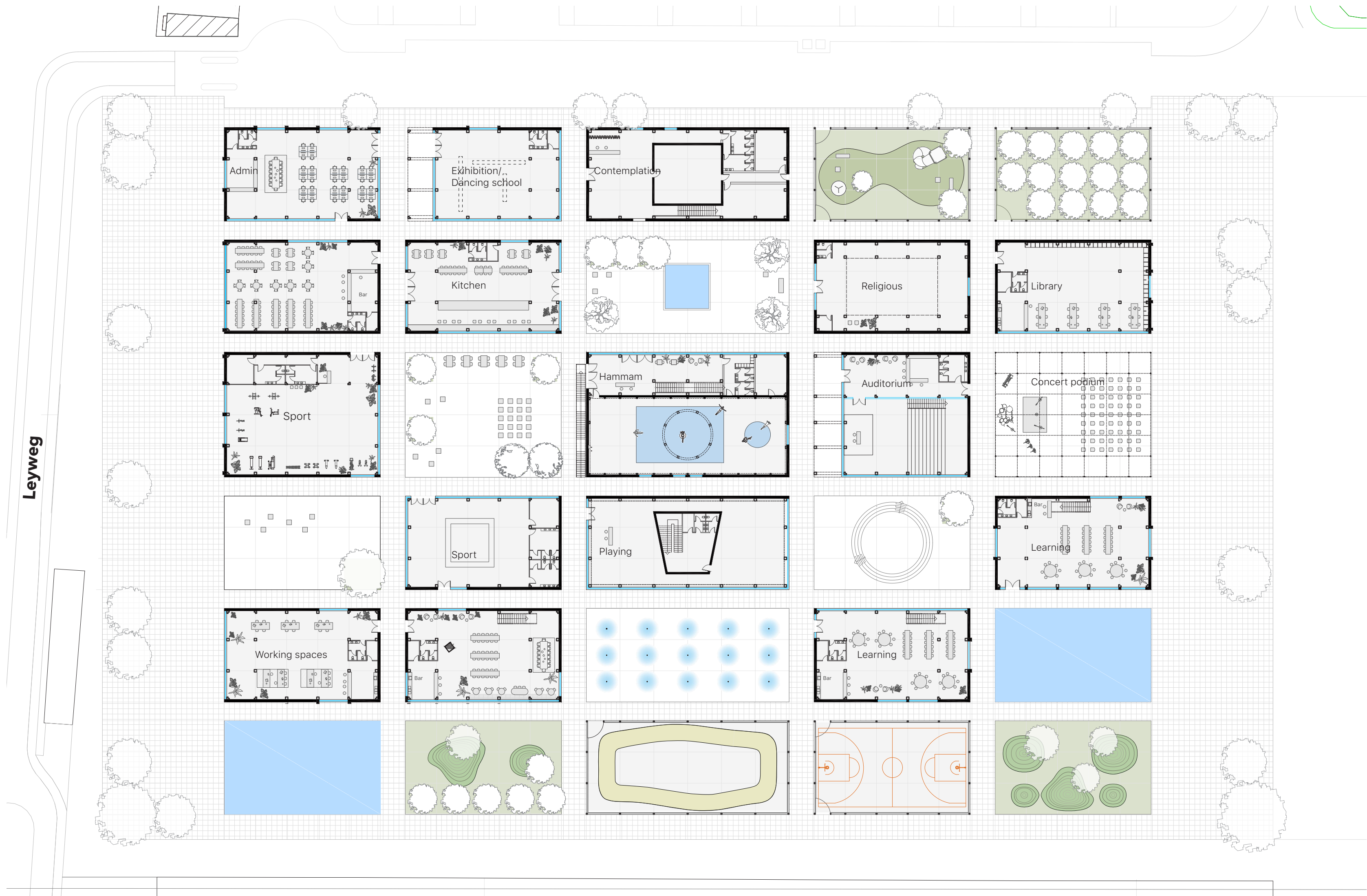


Outside theater



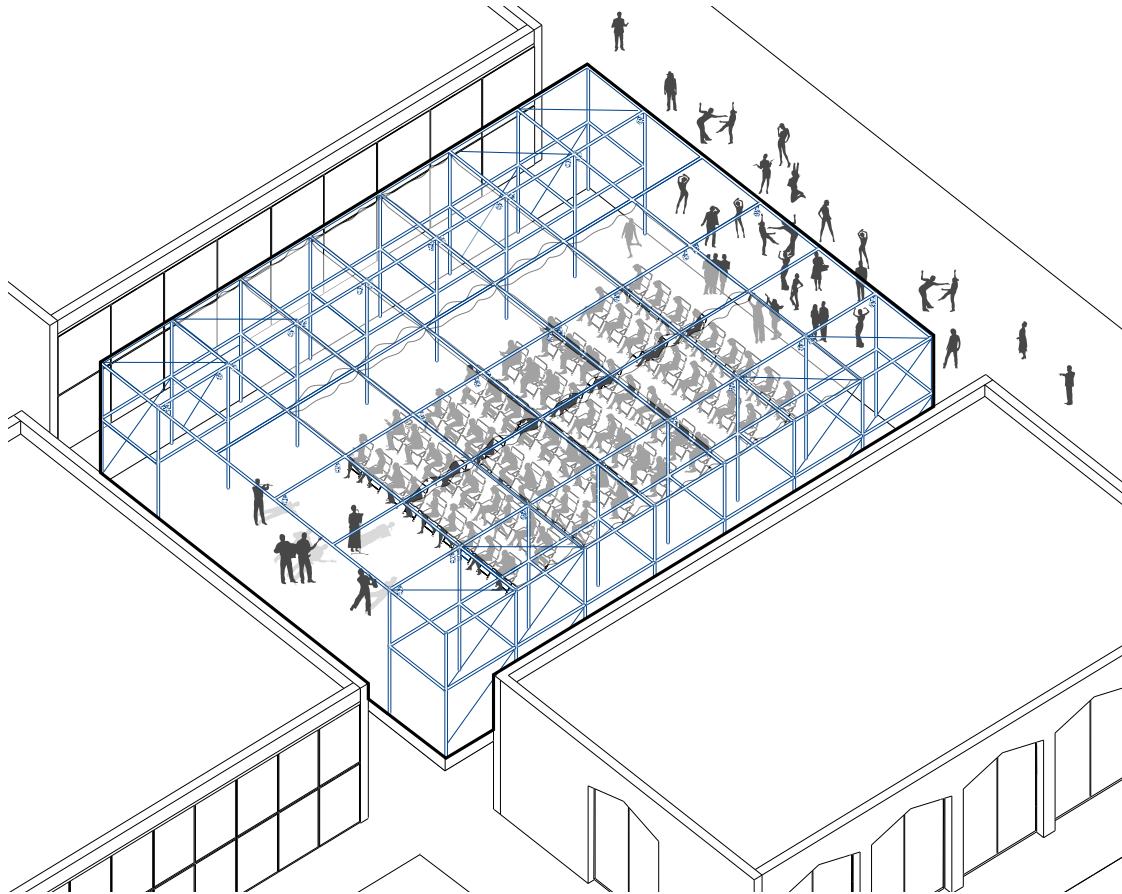
Green surface

Ground Floor

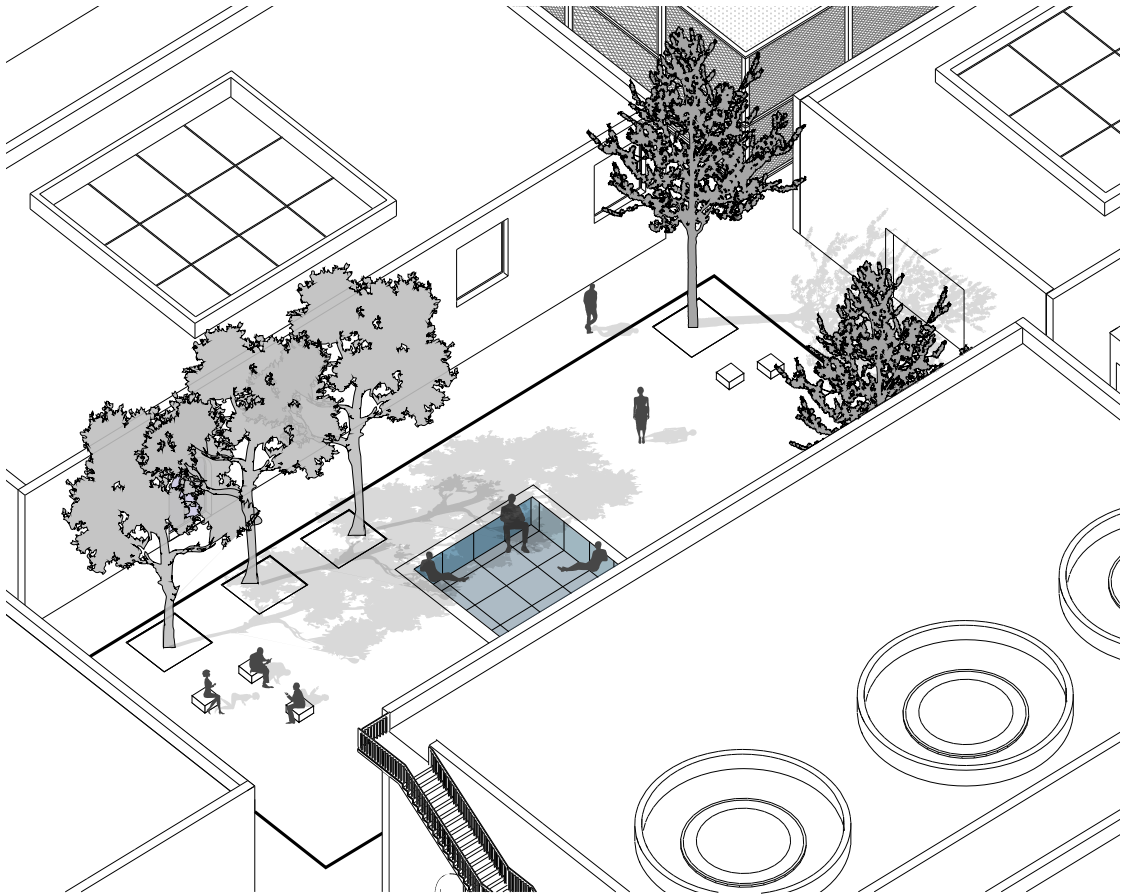


Along Melis Stokelaan

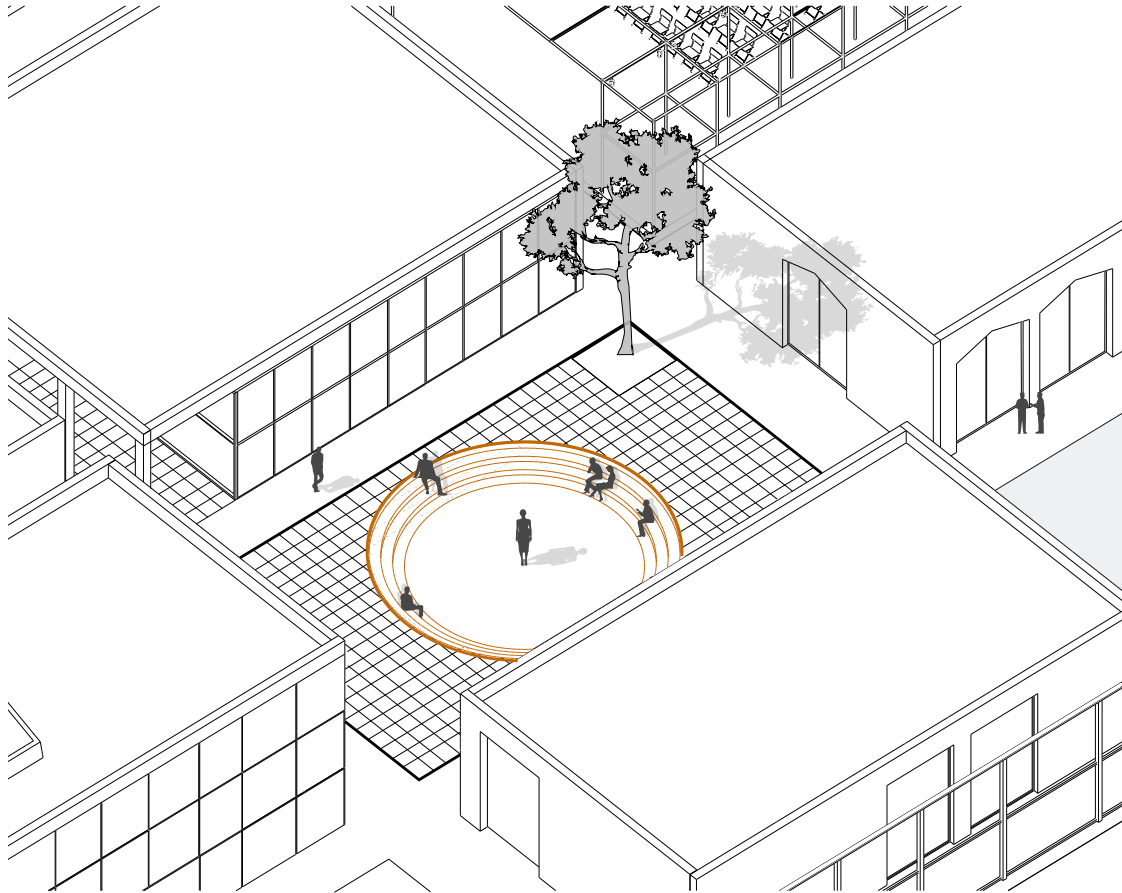




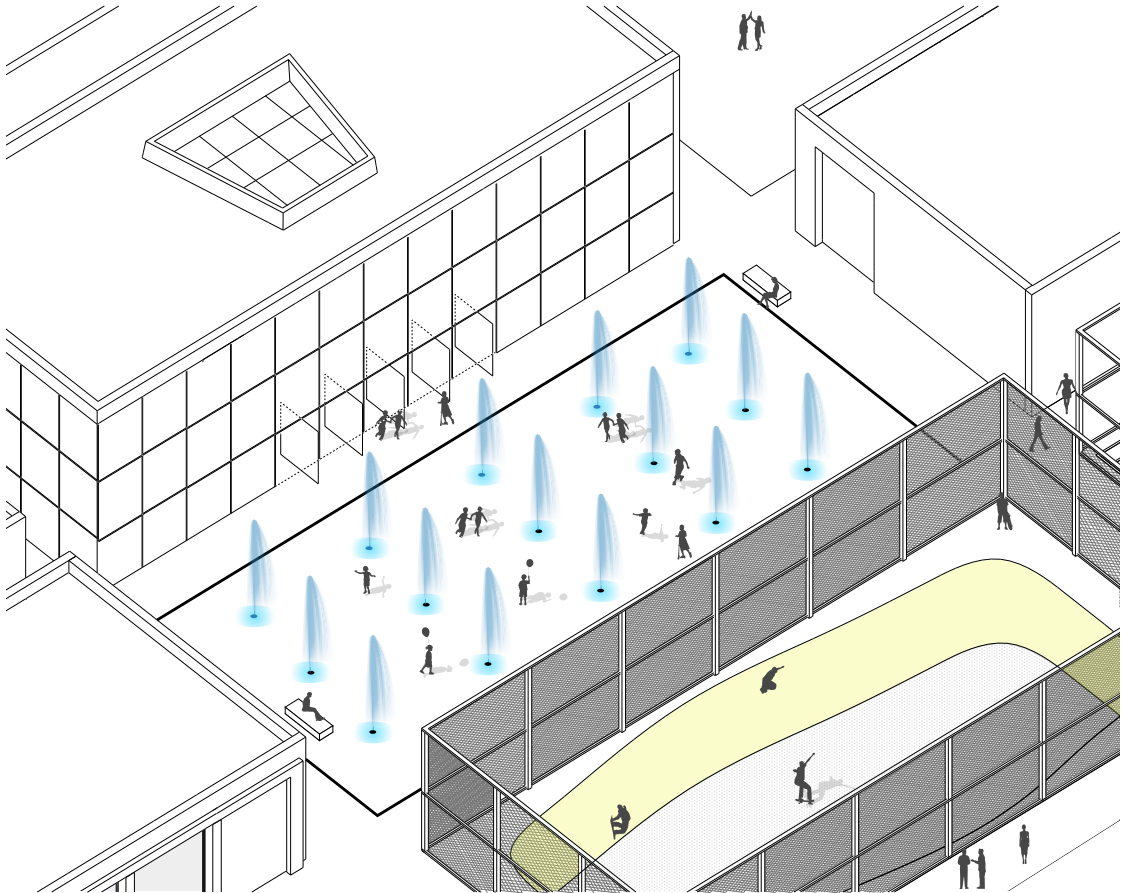
Concert



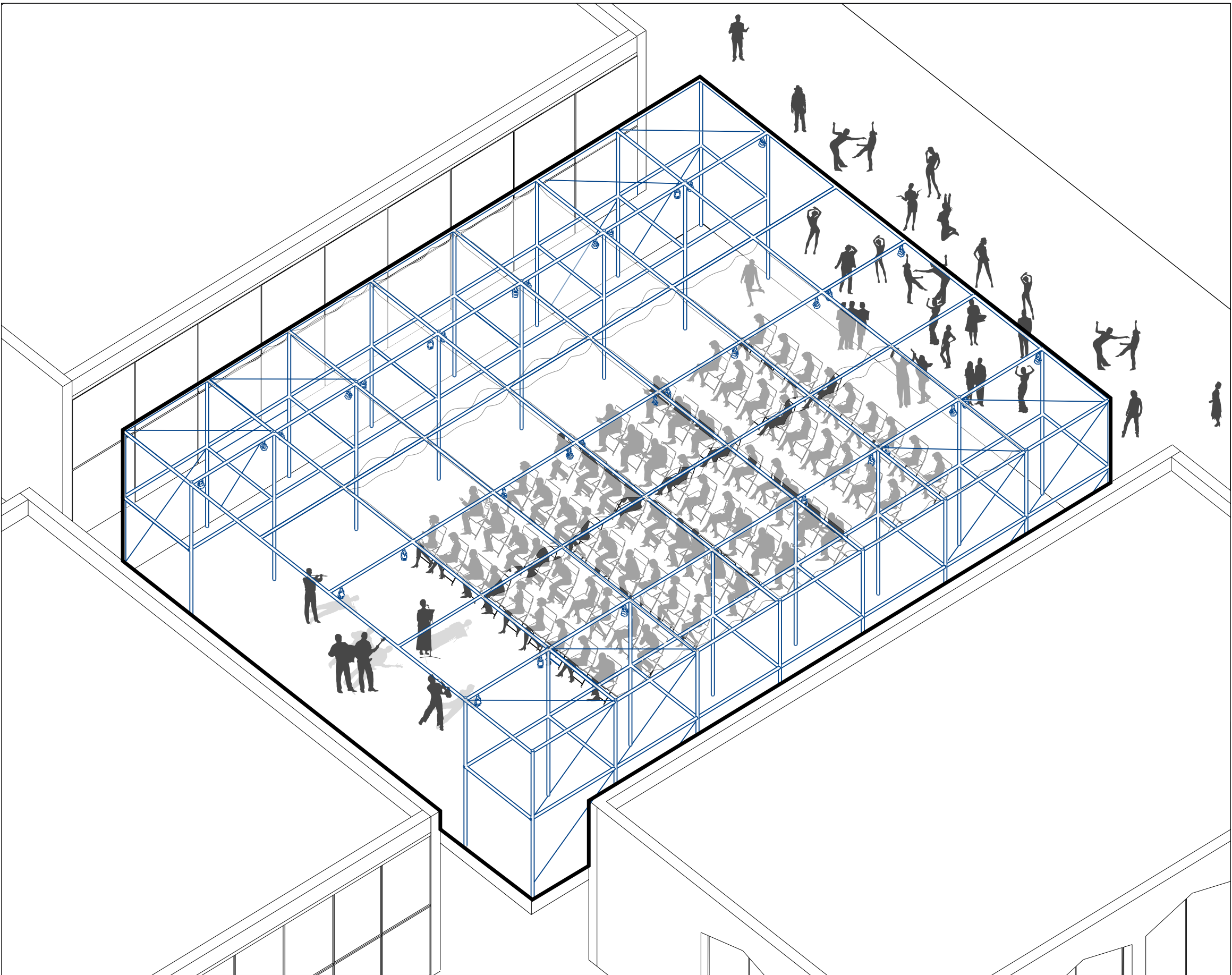
Contemplation



Theater/ debat



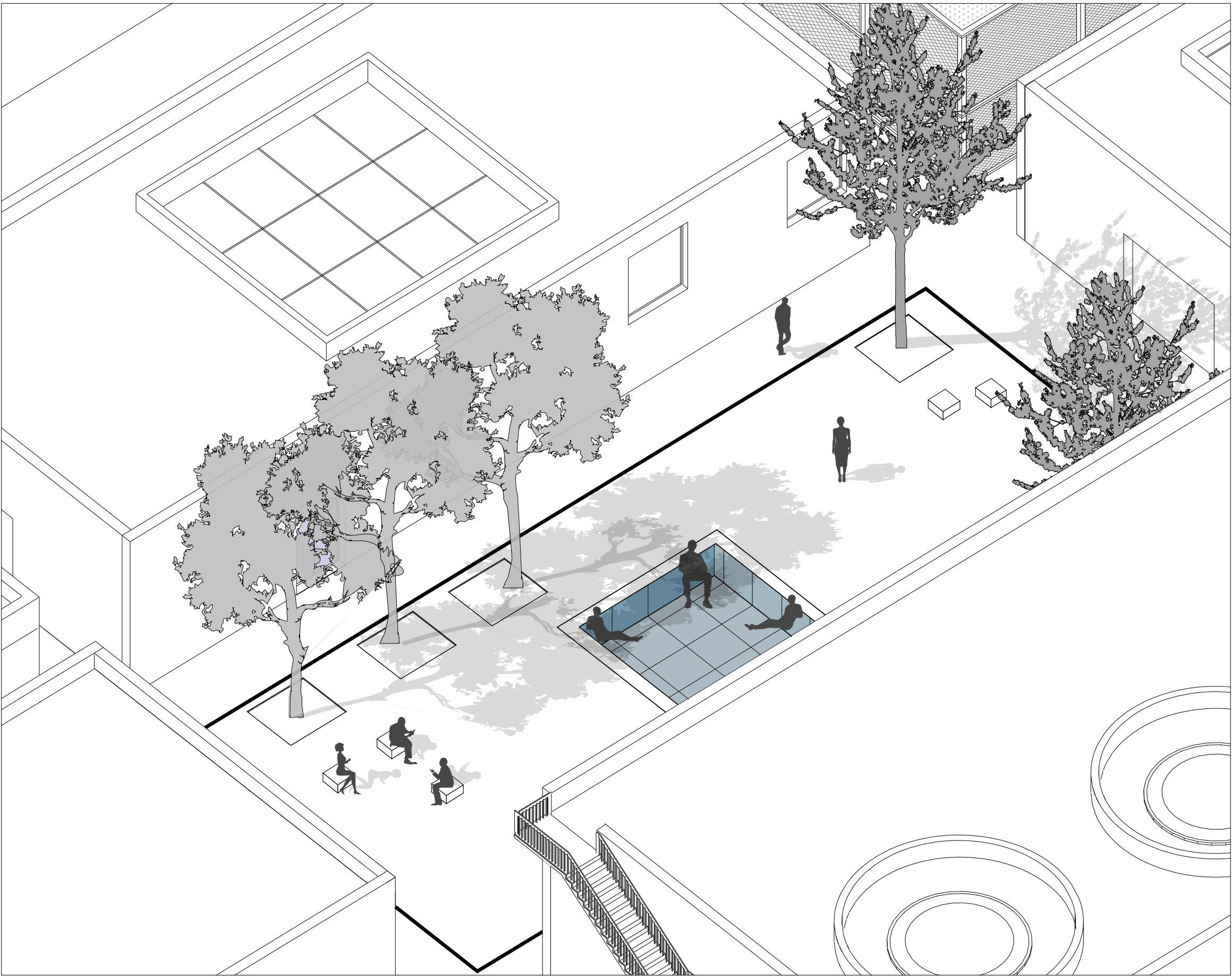
Dancing fountain



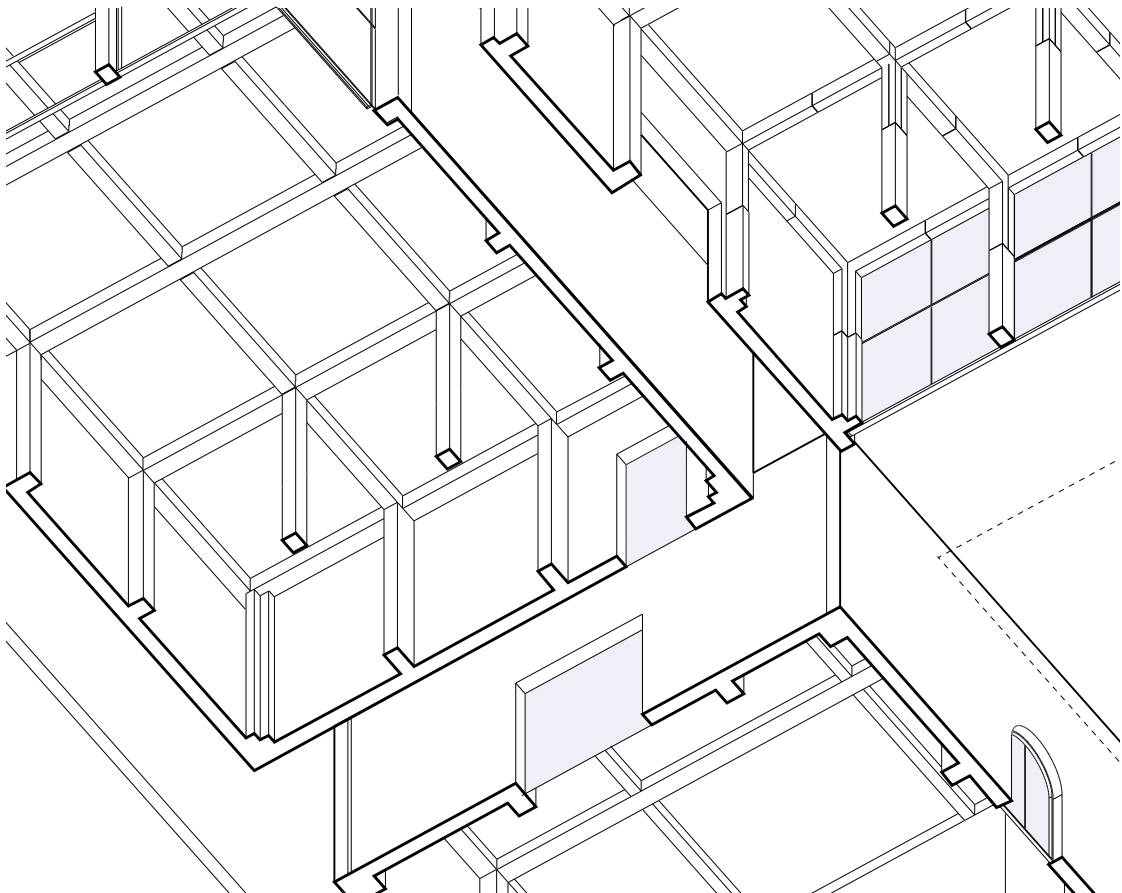
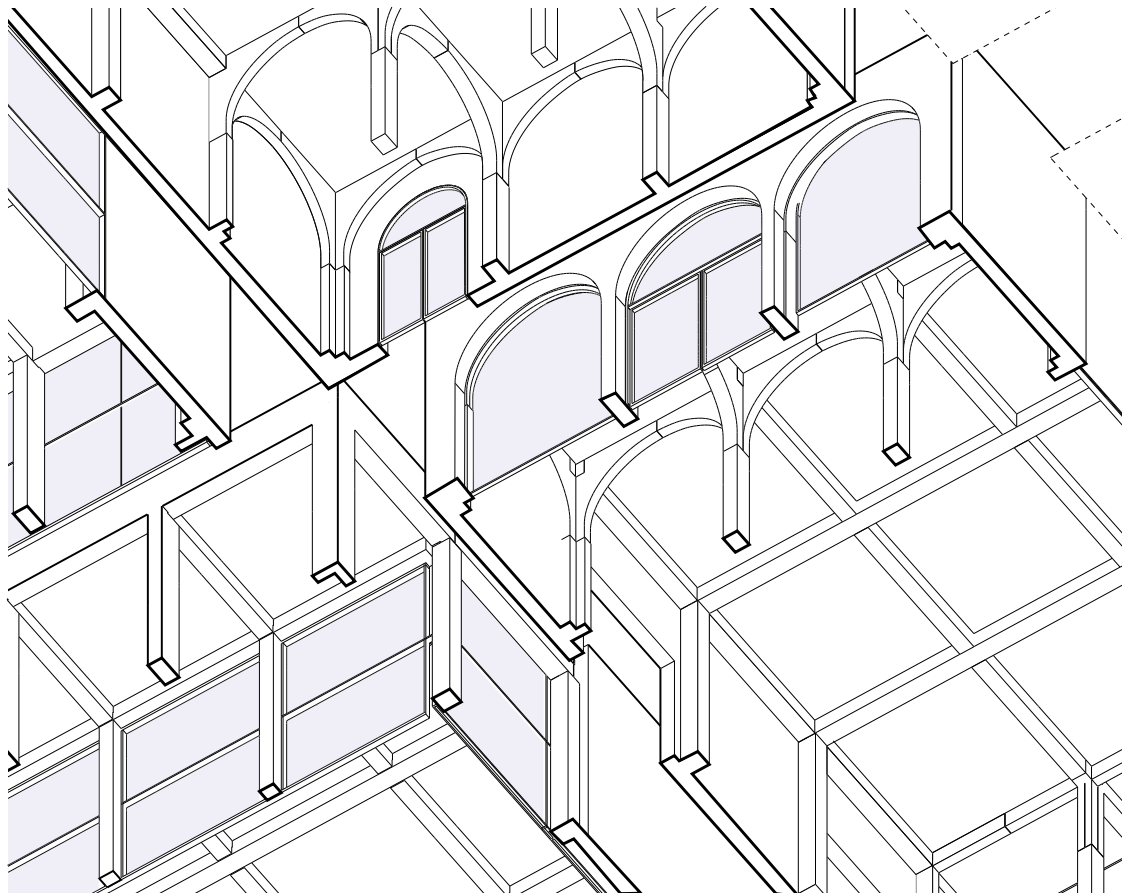
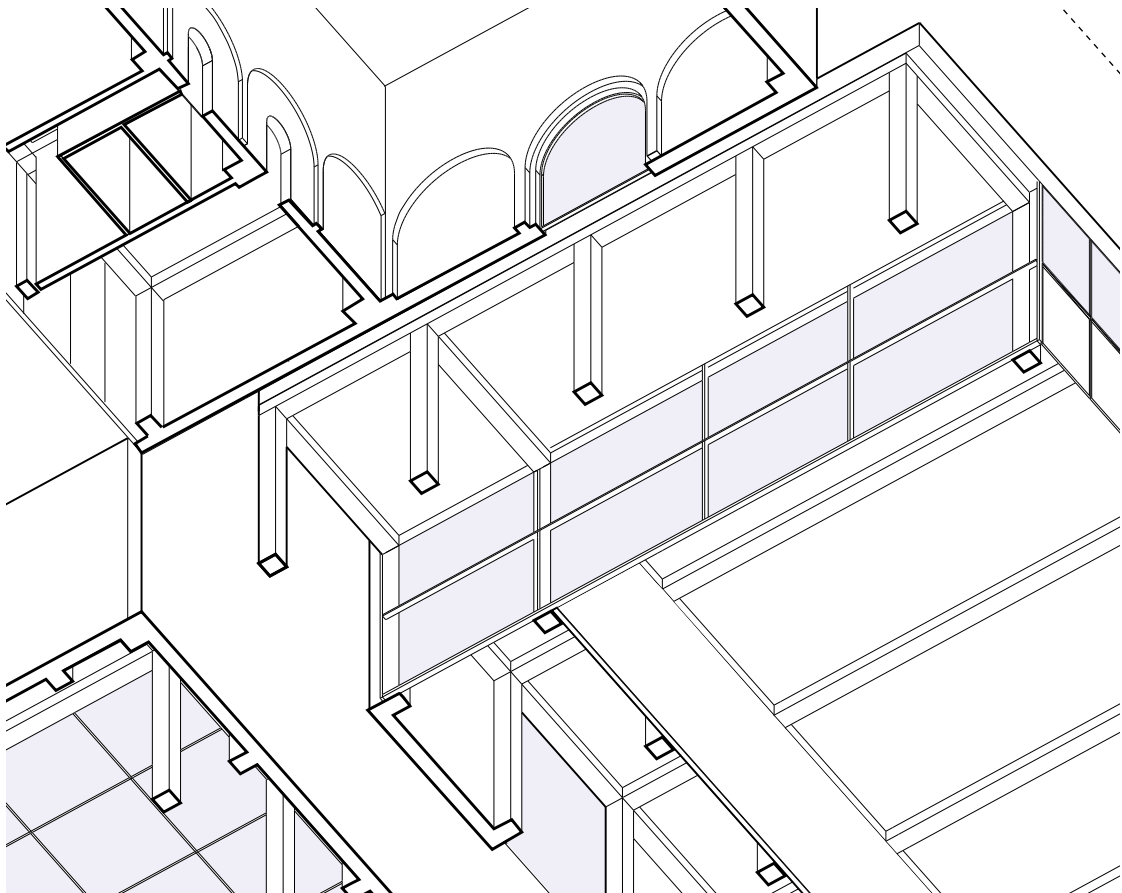
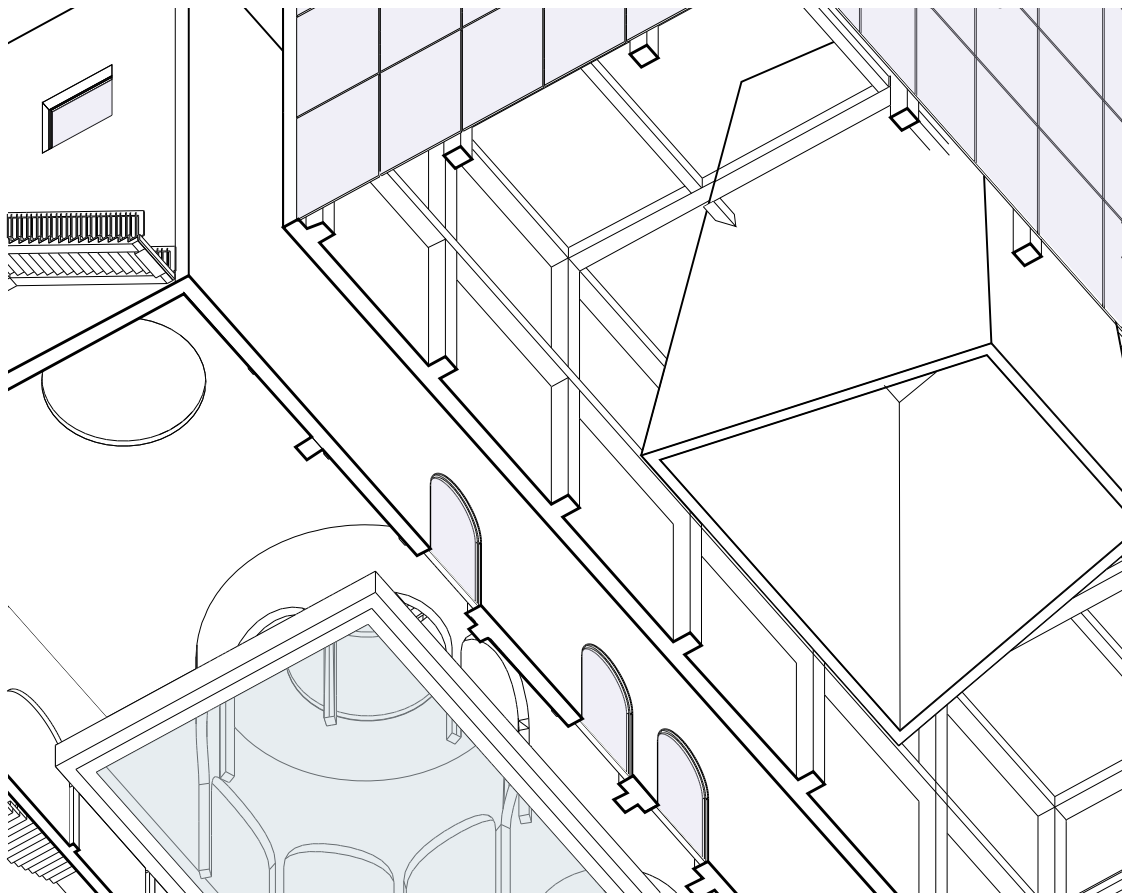




Public Square, outside-inside



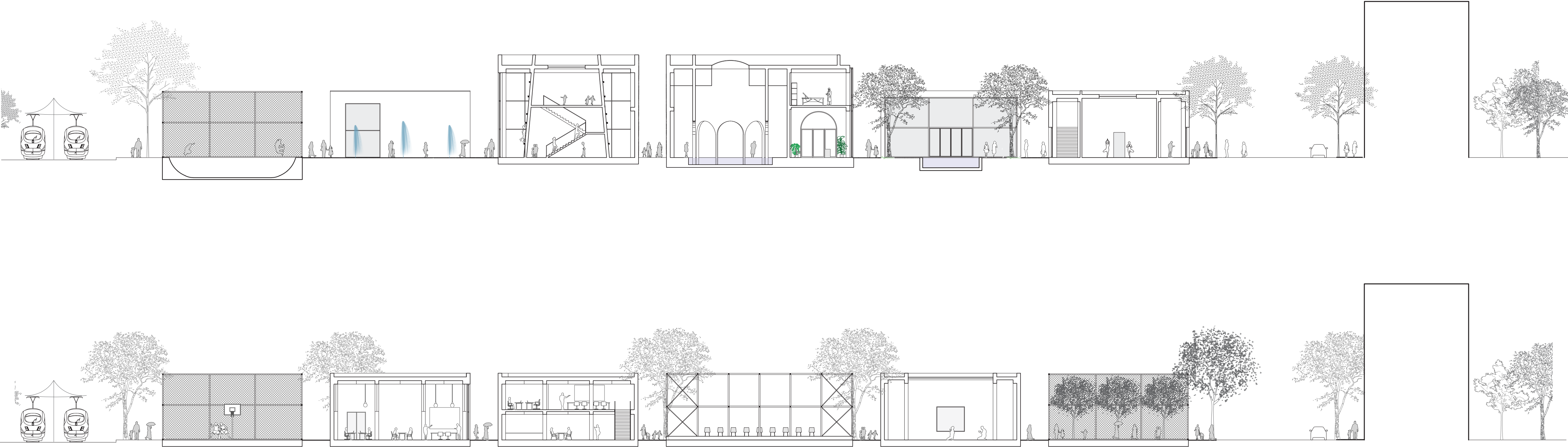


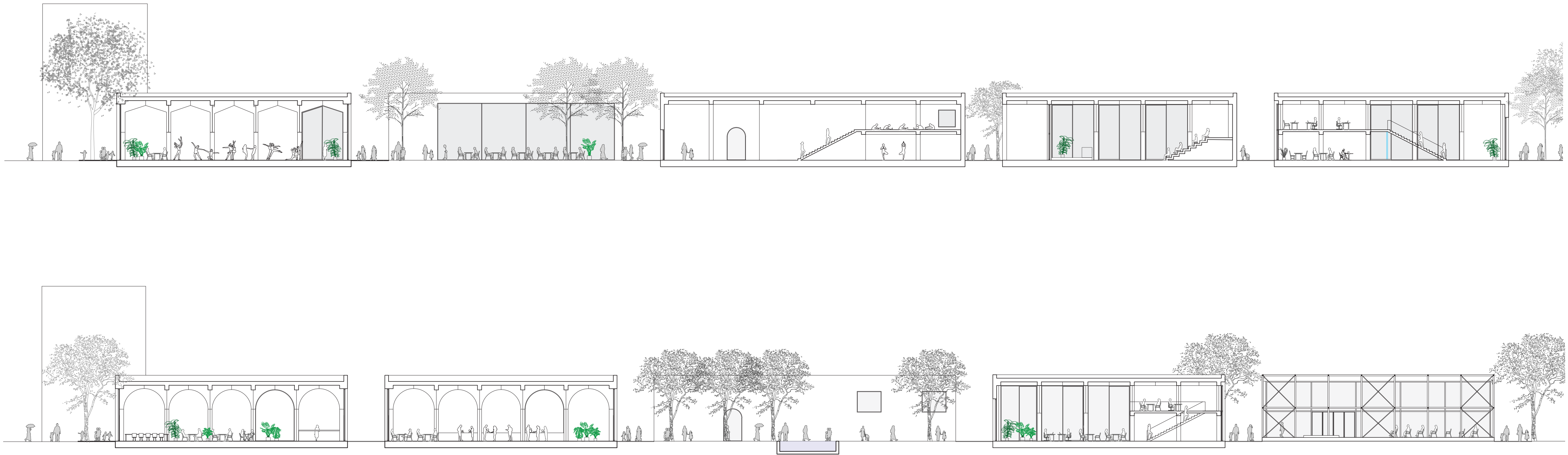






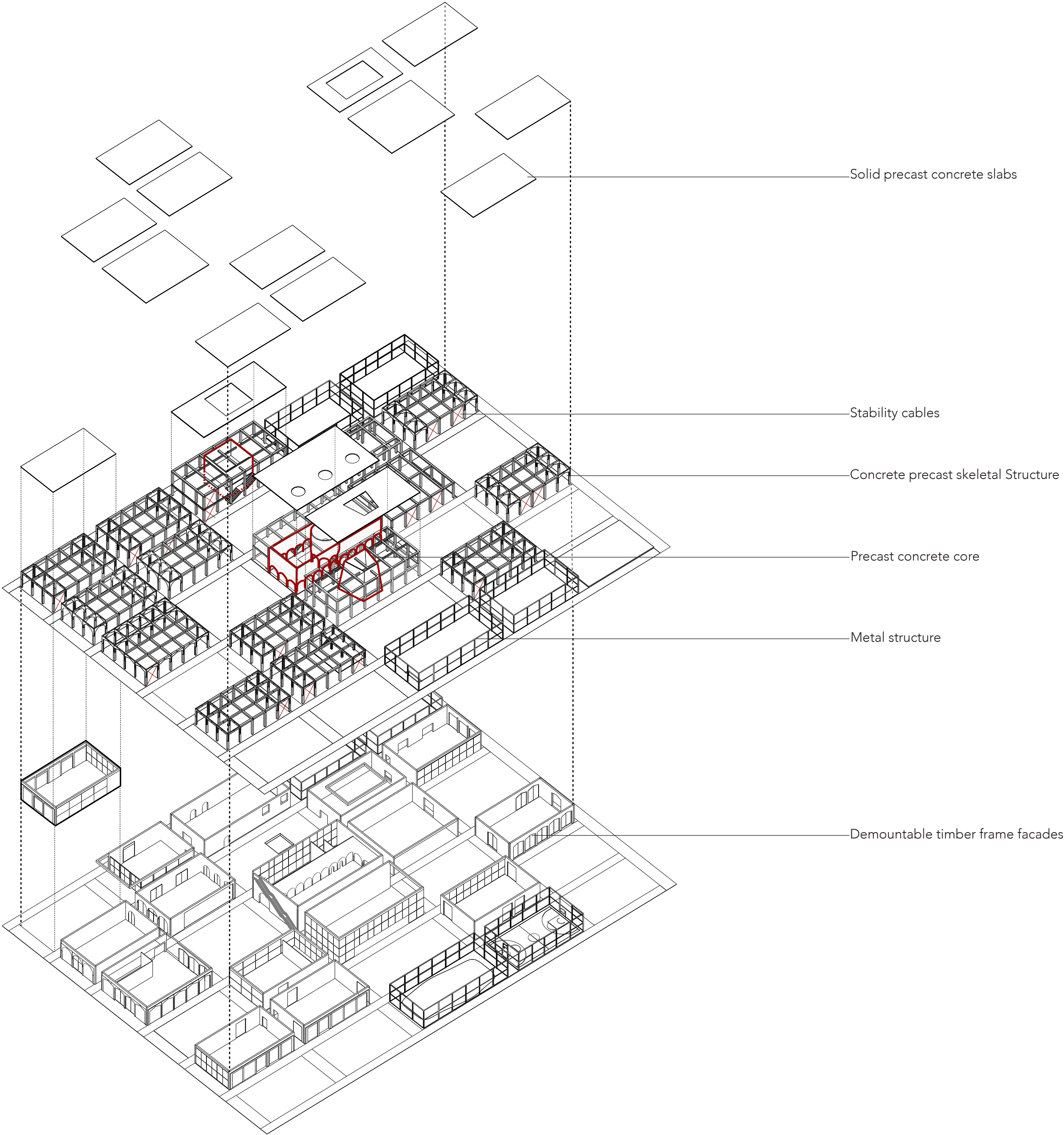
Sections





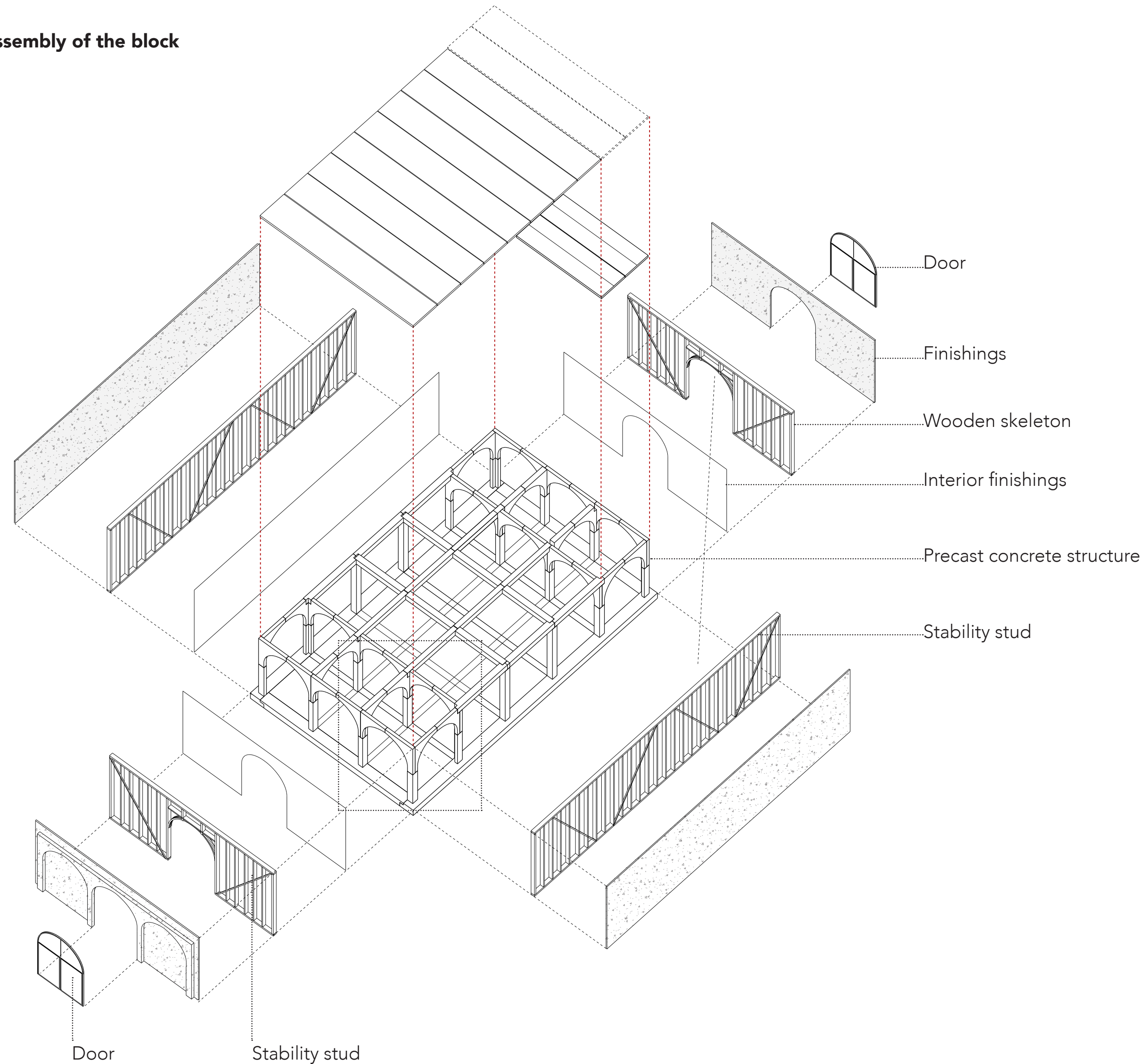
Building Technology

Anotomy of the structure, Scheme

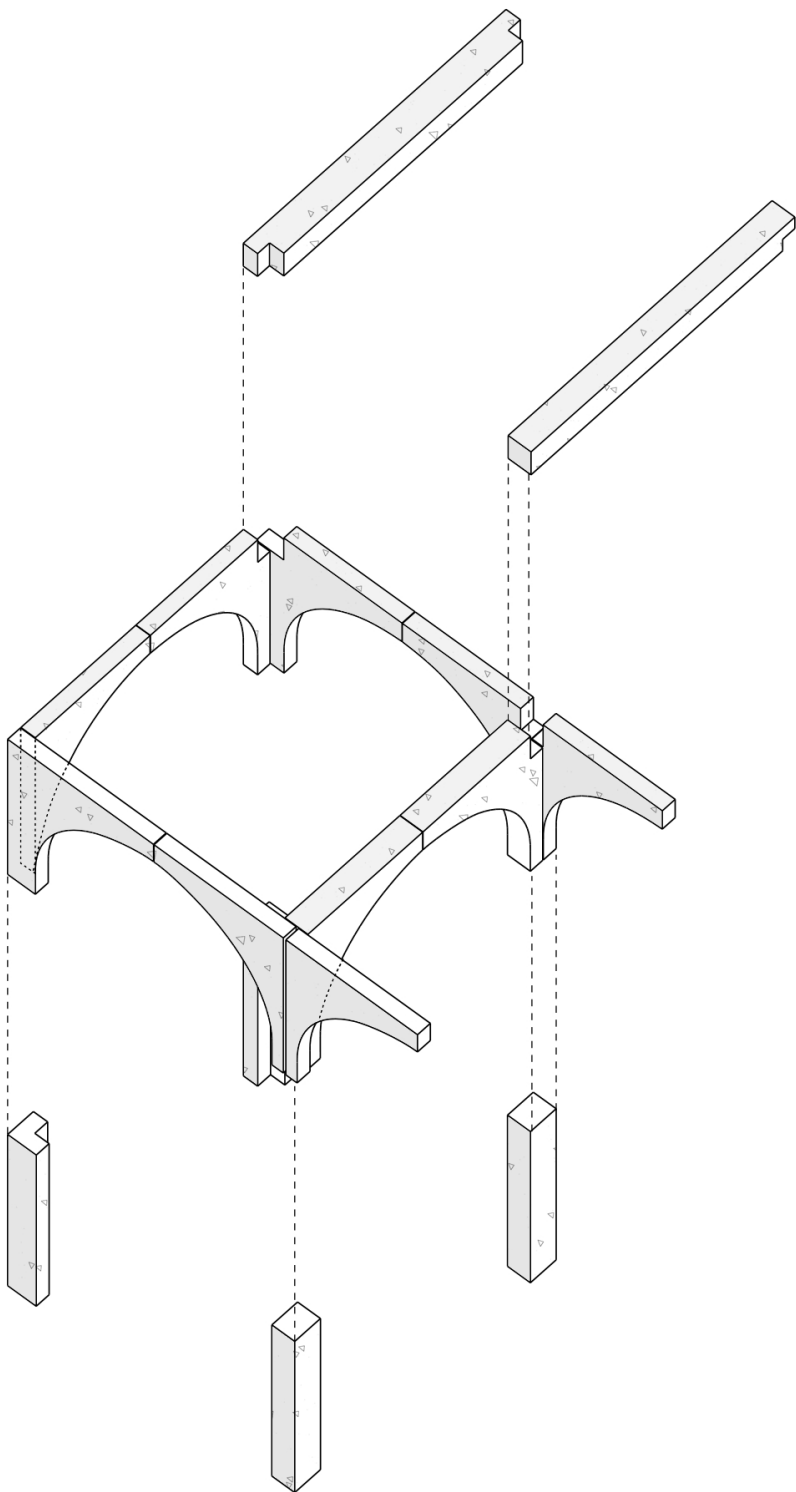


Flexibility and Demountability, Vaulted Character

Assembly of the block

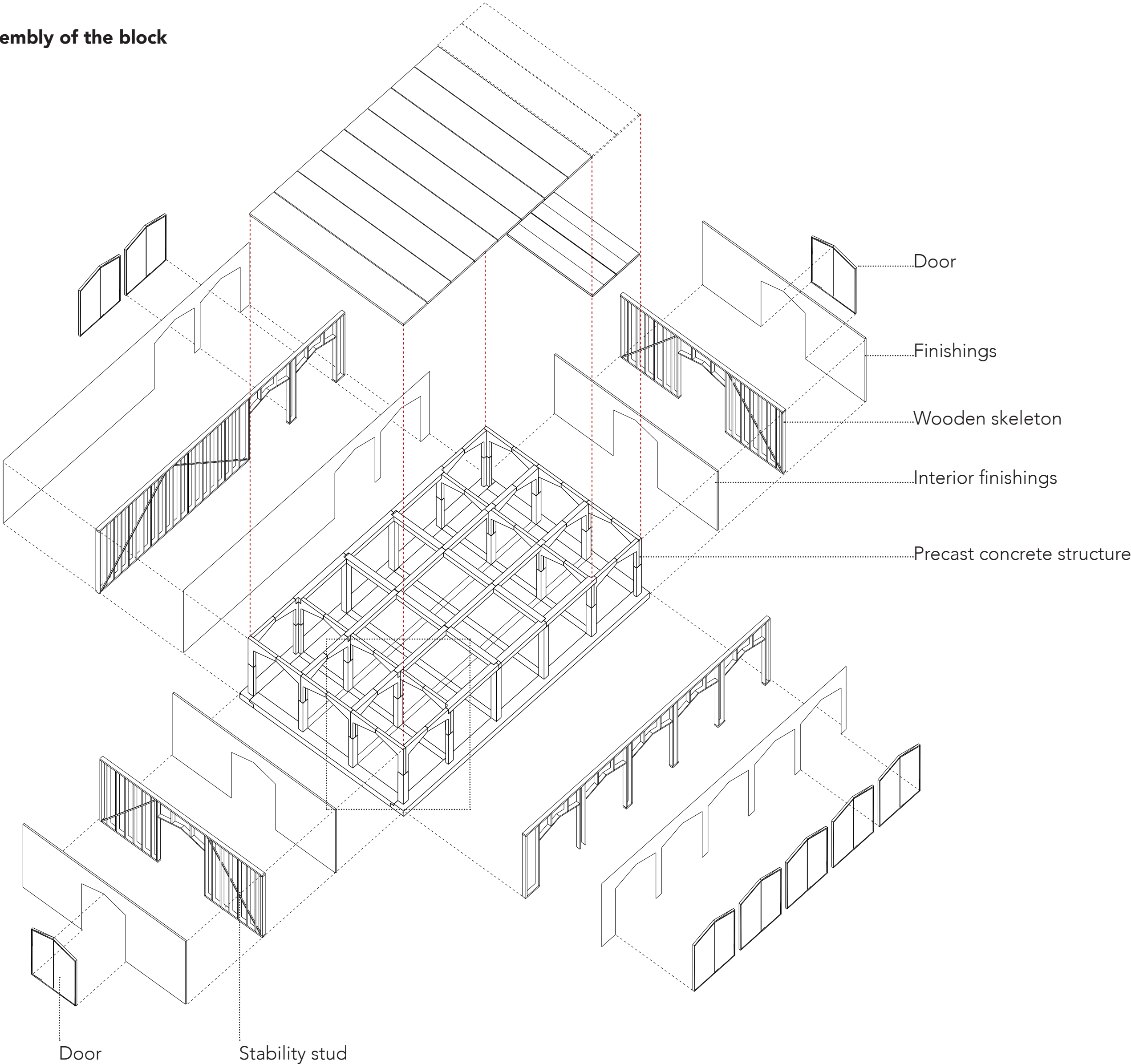


Assembly of the precast concrete elements

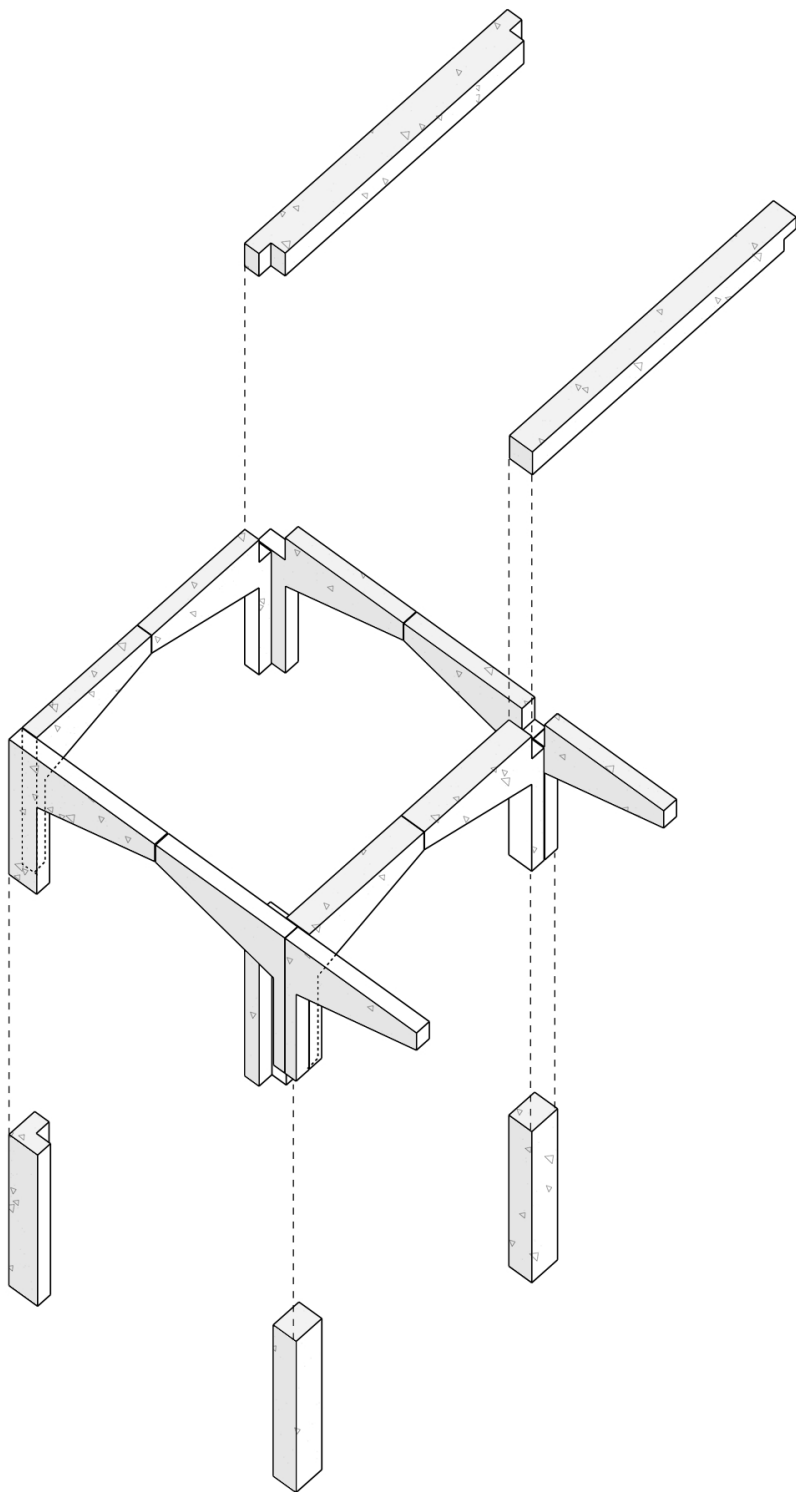


Flexibility and Demountability, Triangular Character

Assembly of the block

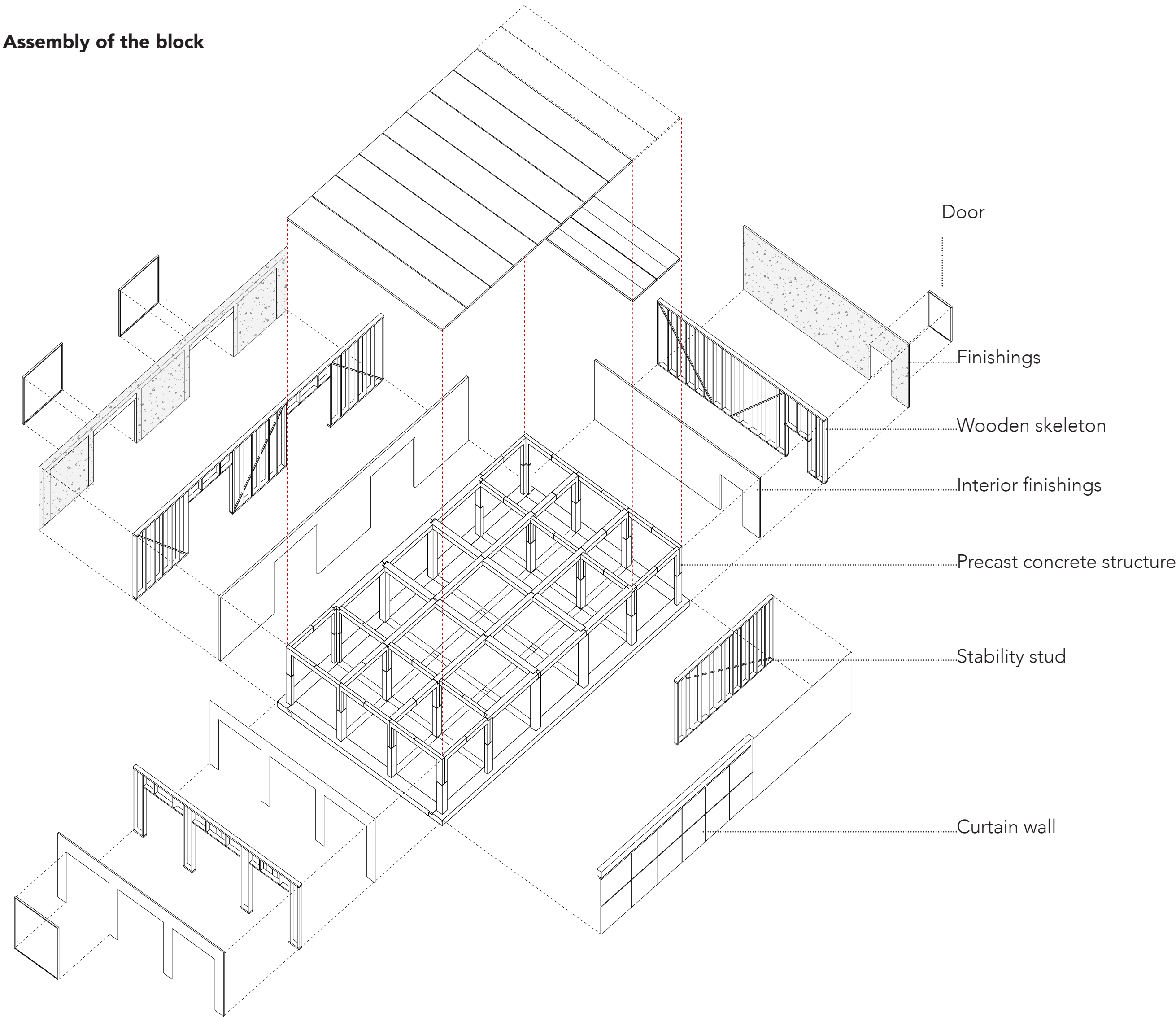


Assembly of the precast concrete elements

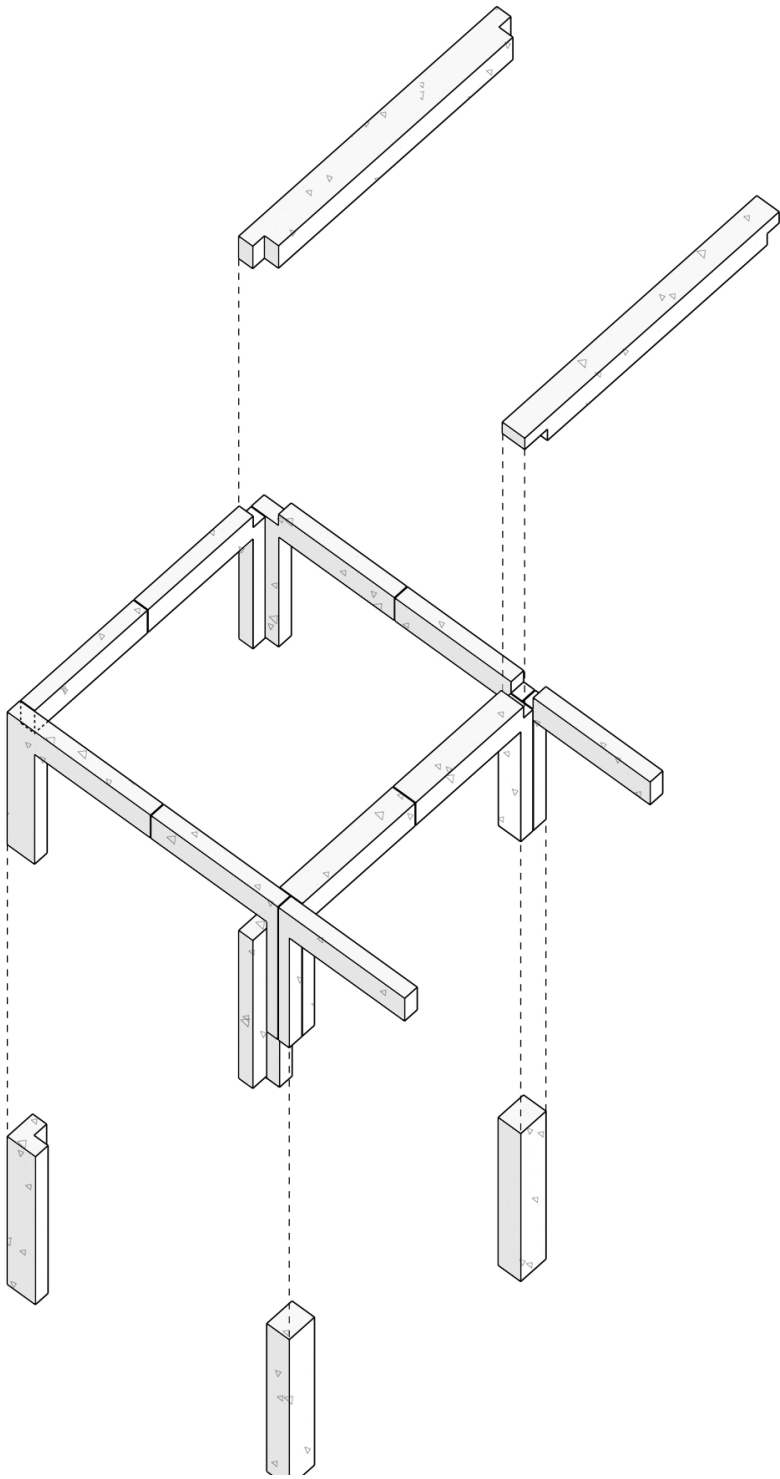


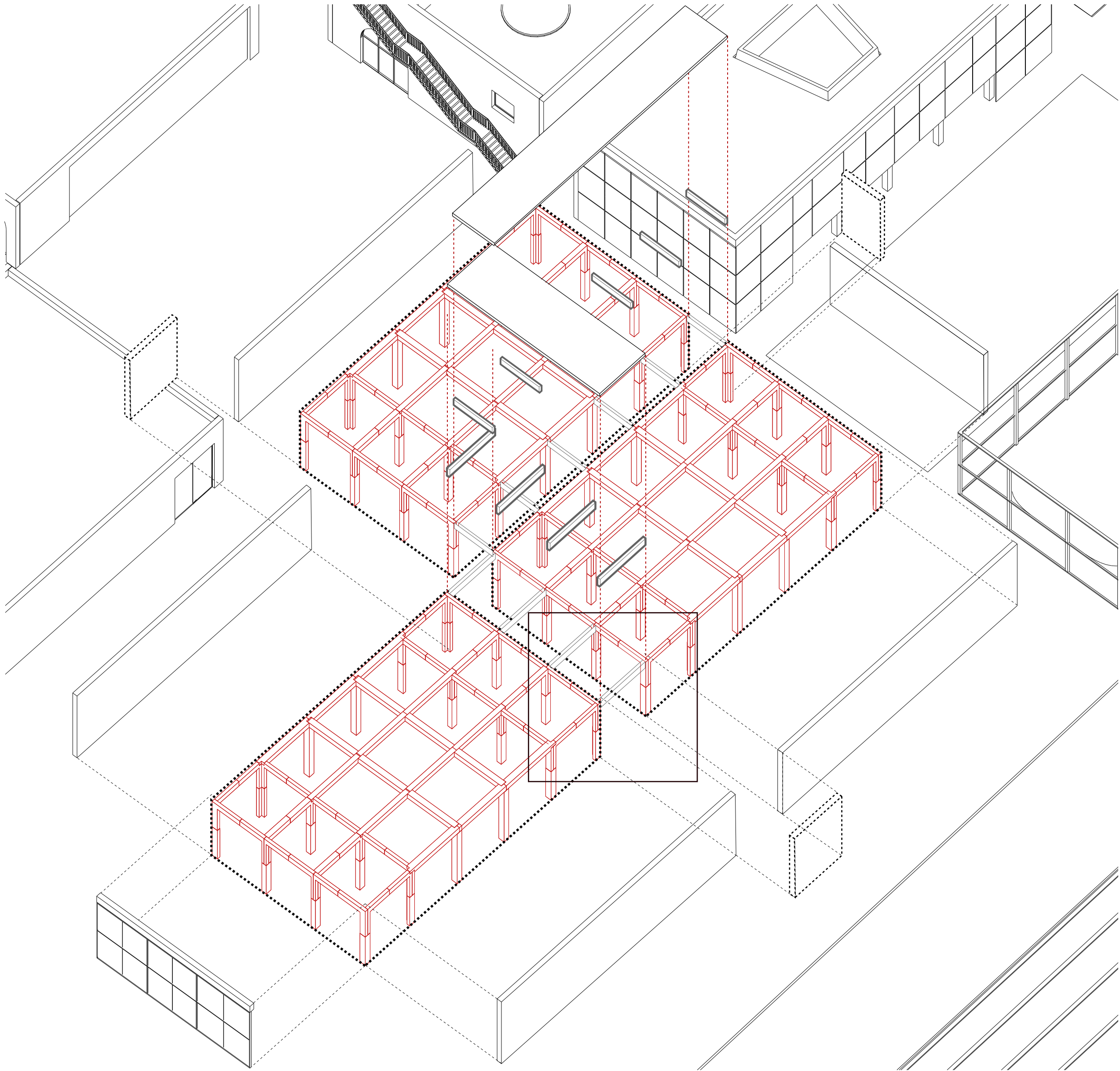
Flexibility and Demountability, Straight Character

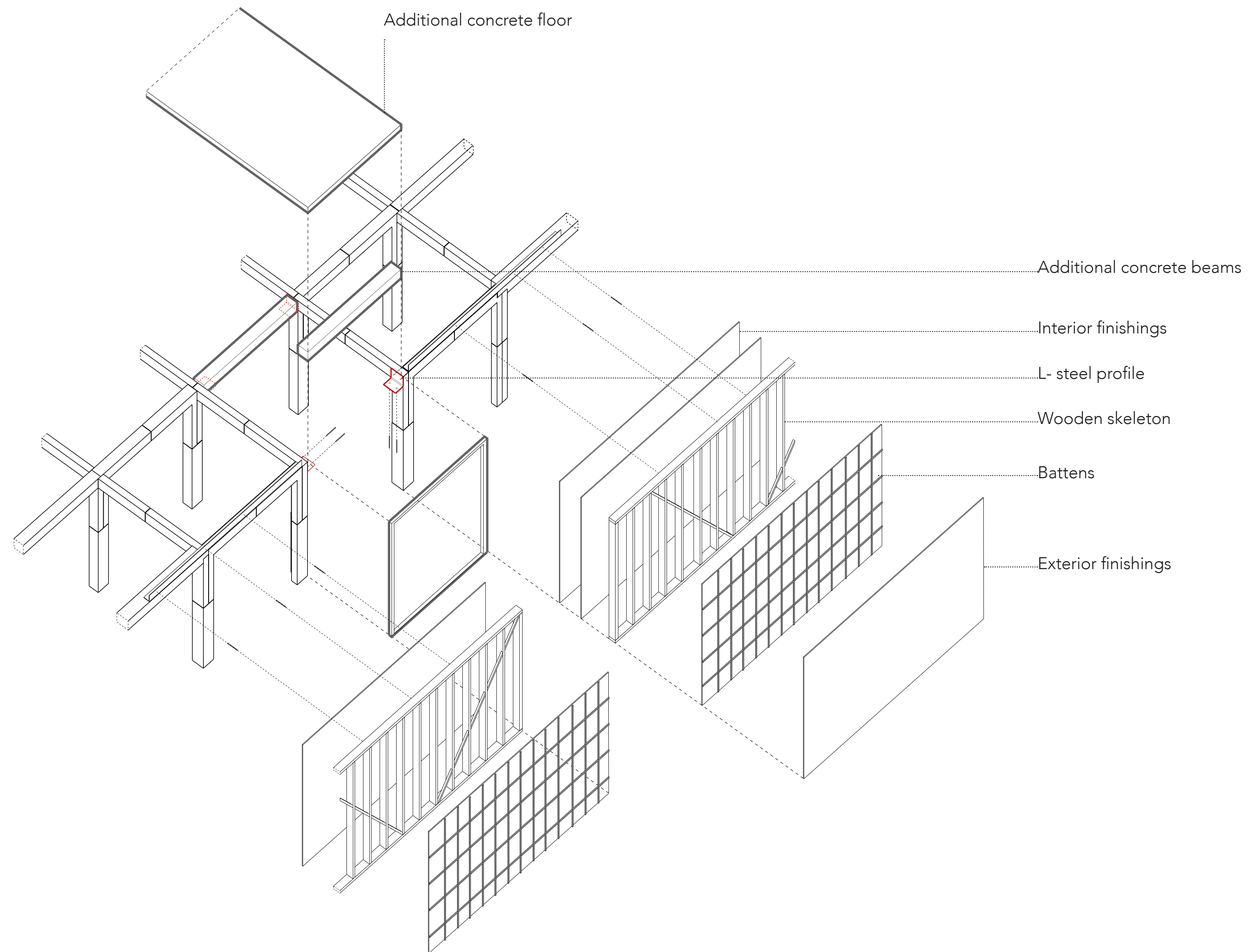
Assembly of the block



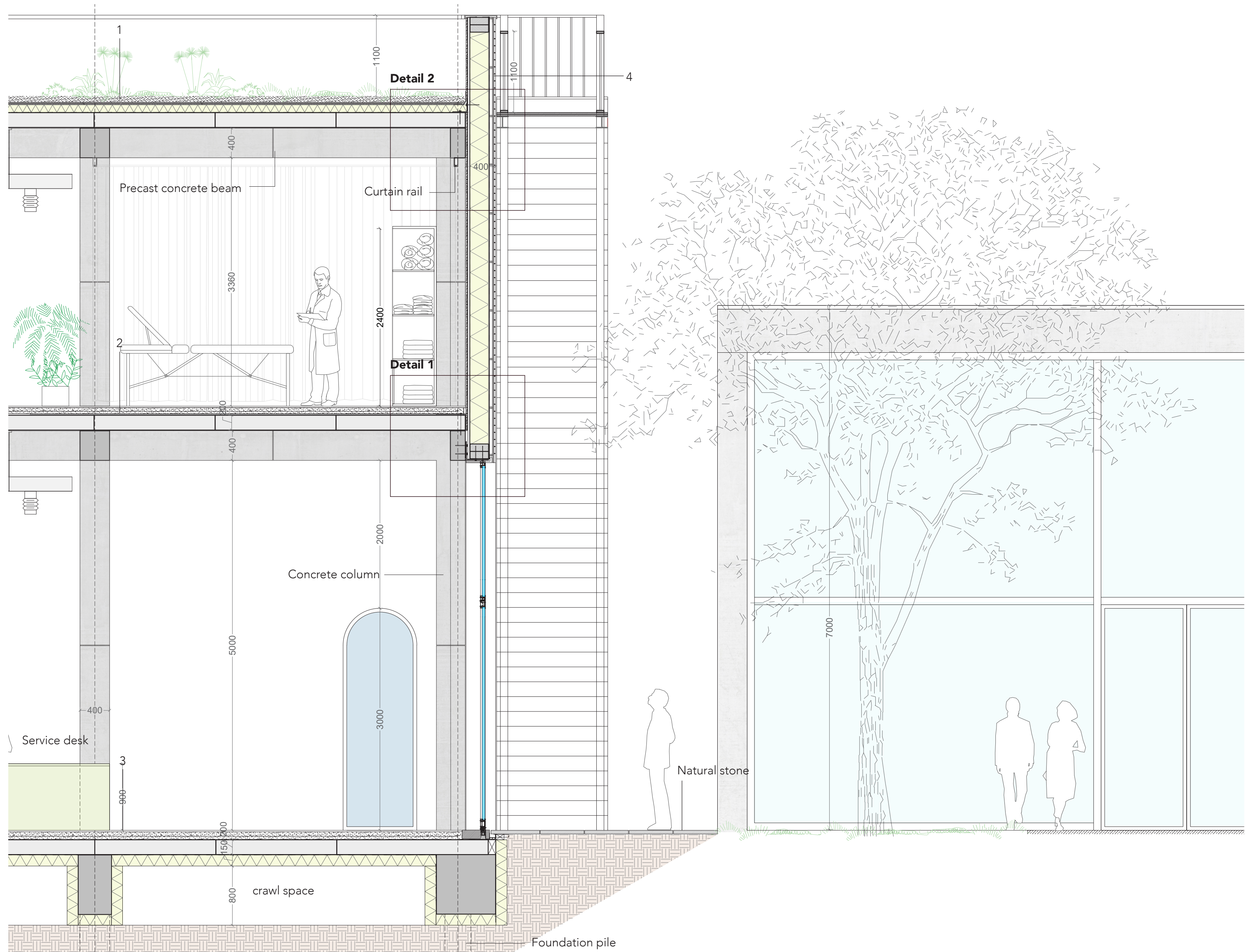
Assembly of the precast concrete elements







Fragment 1.30



1- Green Roof
Green roof
Massive concrete floor
Acoustic gypsum board

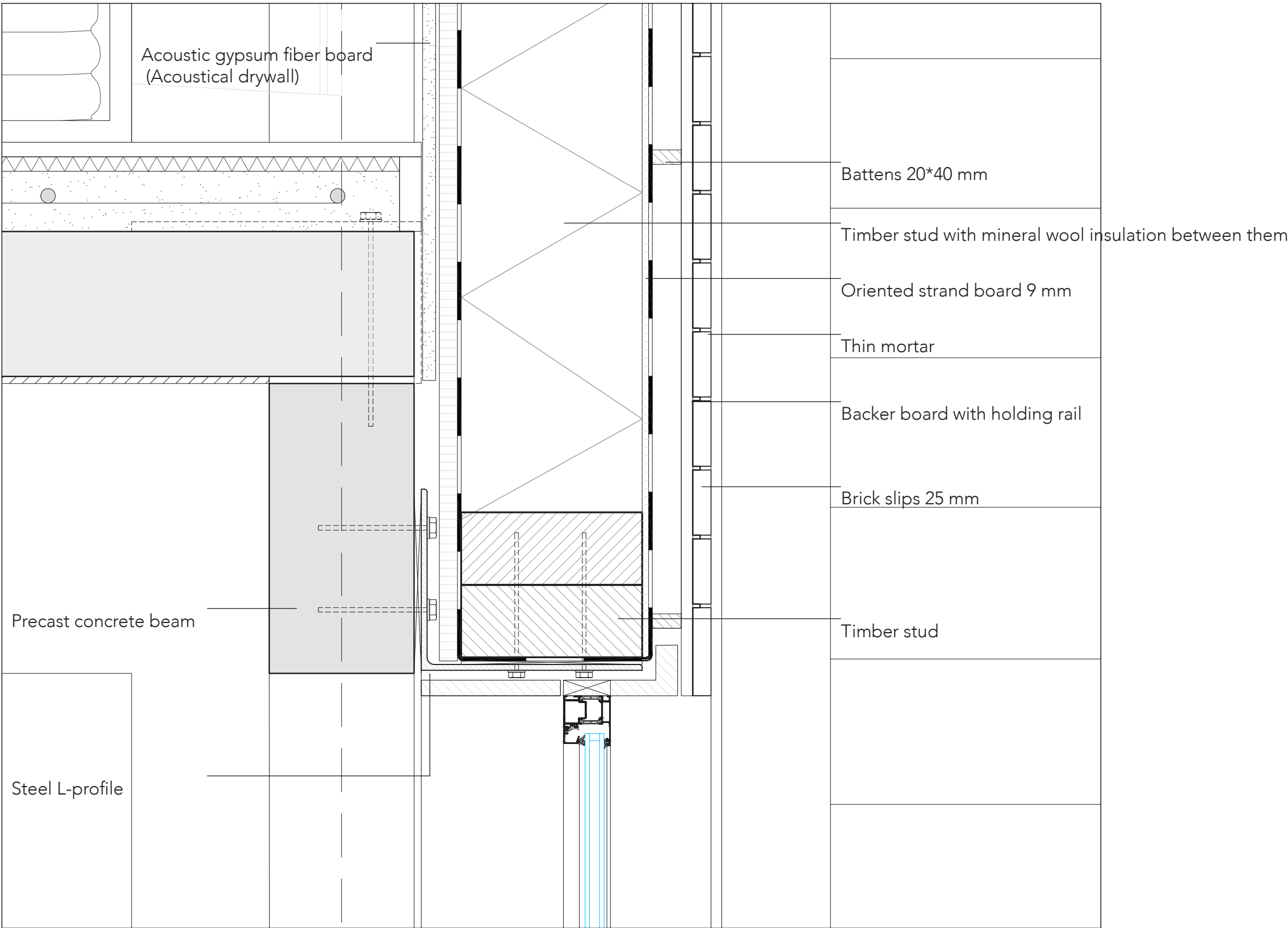
2- Floor (First floor):
Floor Laminate
Sound insulation layer
Screed layer (sand/ cement) or concrete
Heating cables
Precast concrete slaps 20 cm
Acoustic gypsum board

3- Floor (Ground floor):
Floor Laminate
Screed layer (sand/ cement) or concrete
Heating cables
Foli
Precast concrete slaps 20 cm
Foli
Thermal insulation
Crawl space

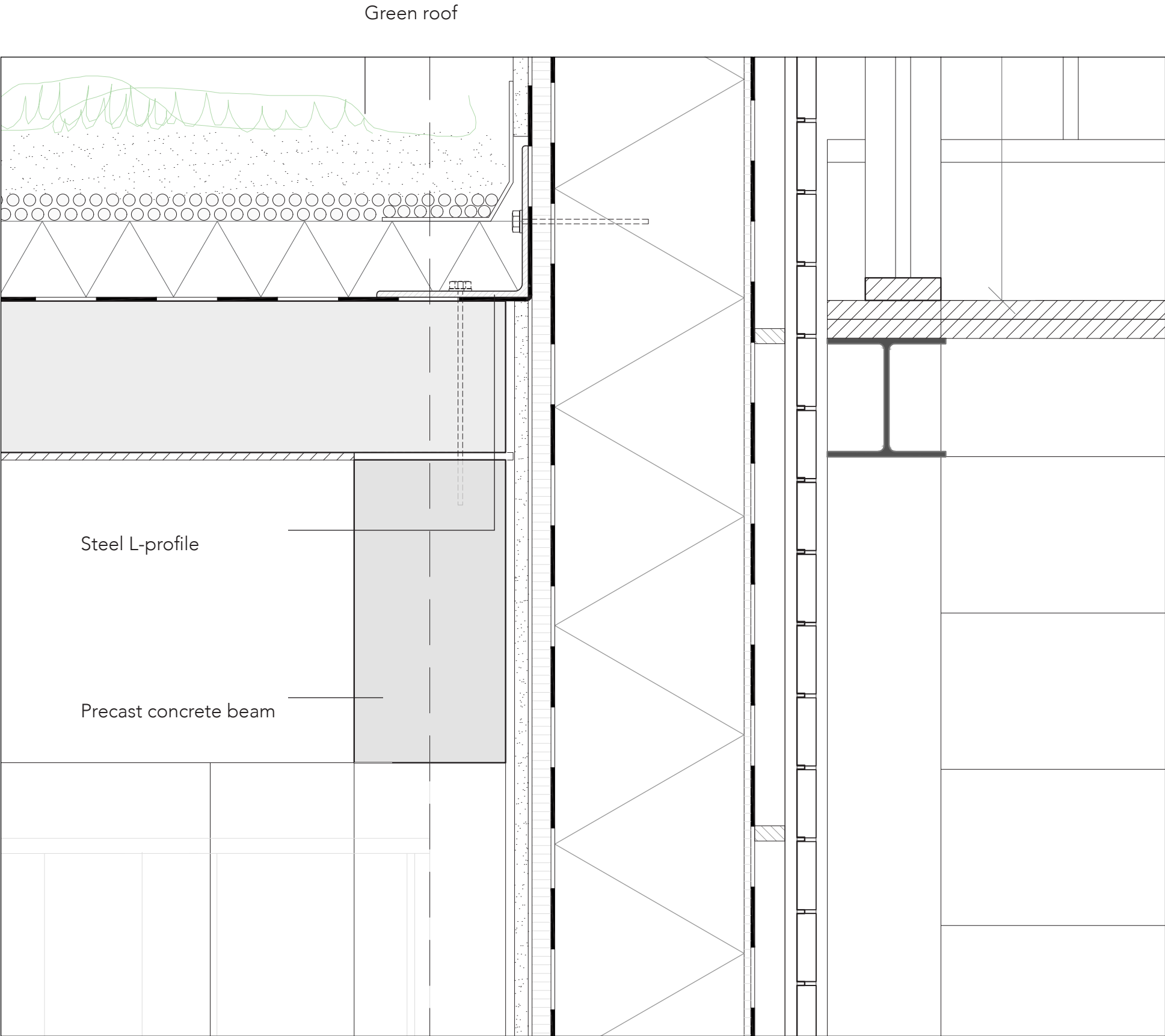
4- External wall (wooden skeleton):
Block slips 240* 120* 10 mm
Backer board 9 mm
Battens 20*40 mm
Airtight membrane
Oriented strand board 9 mm
Timber stud with mineral wool insulation between them
Vapour insulation
Oriented strand board 15 mm
Acoustic gypsum fiber board

Details 1.5

Detail 1



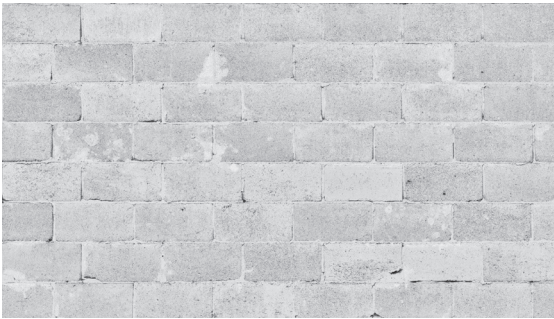
Detail 2



Project Materials

Exterior

Envelop



Block slips:
240* 120* 10 mm.



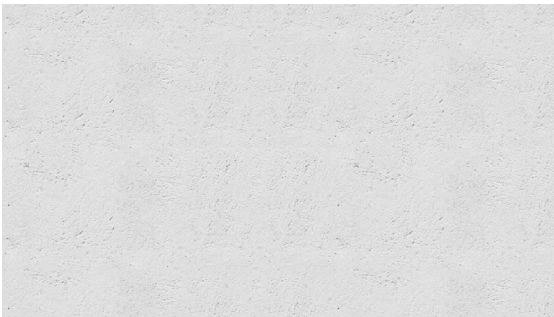
Brick slips:
240* 120* 10 mm.



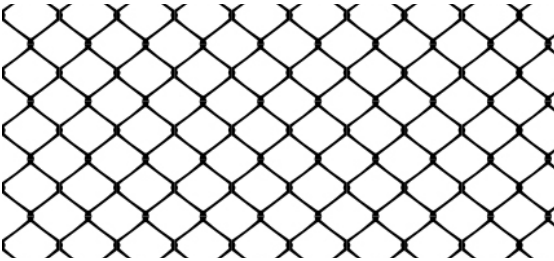
Anodized aluminum
panels:
350* 750* 10 mm.



Brick slips:
240* 120* 10 mm.



Cement fiber panels
with clay plaster.
Color: light gray.

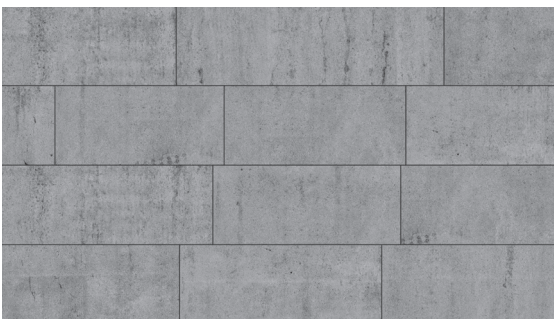


Coated wire mesh

Street and squares



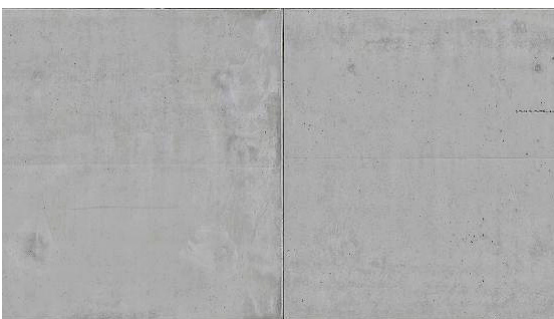
Cement fiber panels
with clay plaster.
Color: Blue.



(Alleyway): outdoor
tiles: 600* 1200 mm



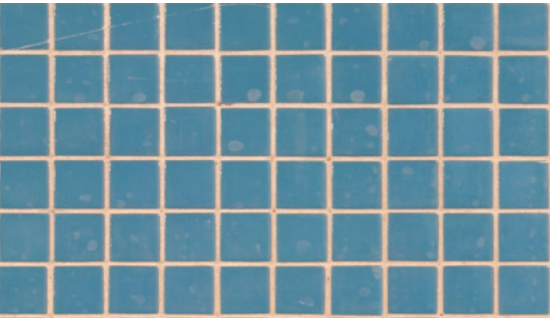
Cement fiber panels
with clay plaster.
Color: yellow.



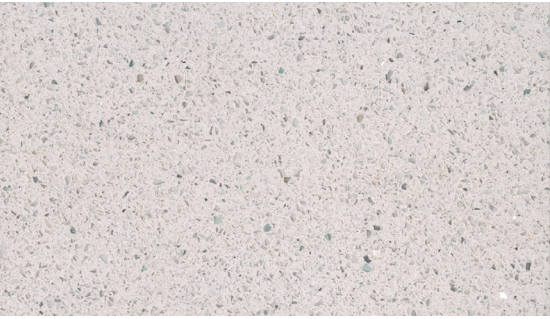
Squares: outdoor
tiles: 1200* 1200 mm

Interior

Floors



Fountain tile
(outside):
150* 150 mm



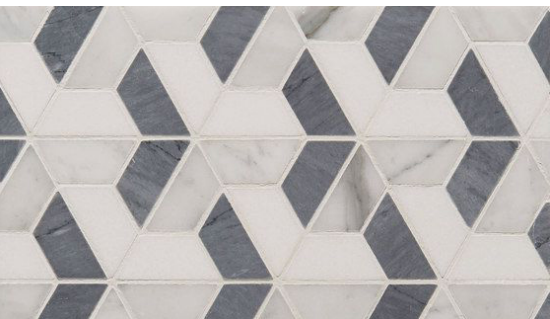
Concrete cast floor.



Laminate floor



Marble tile: Spa.



Floor tile Kitchen



Concrete cast floor.

Interior finishes



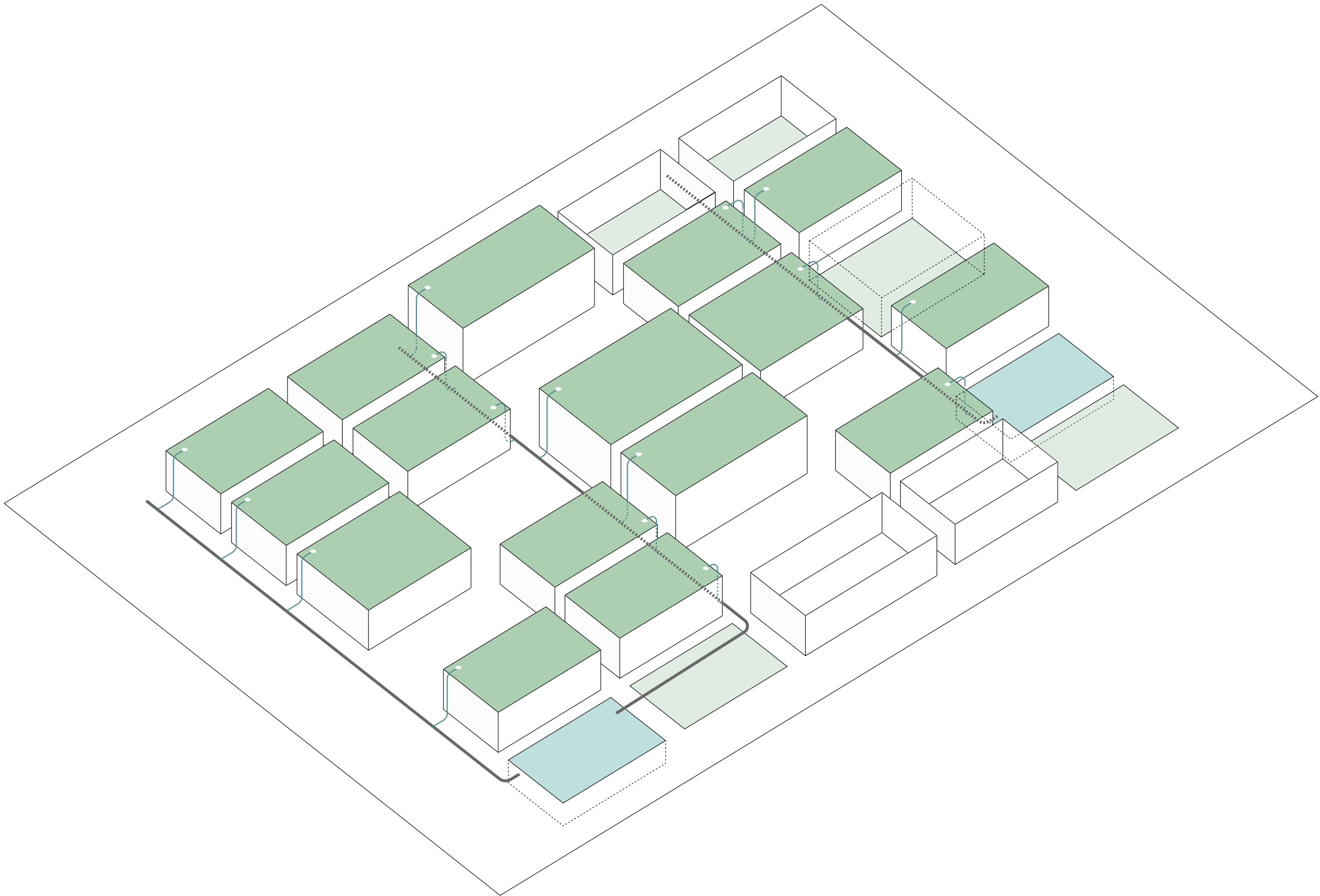
Plasterboard wall:
Mat white painting



Vintage wall tile:
200* 200 mm
Spa

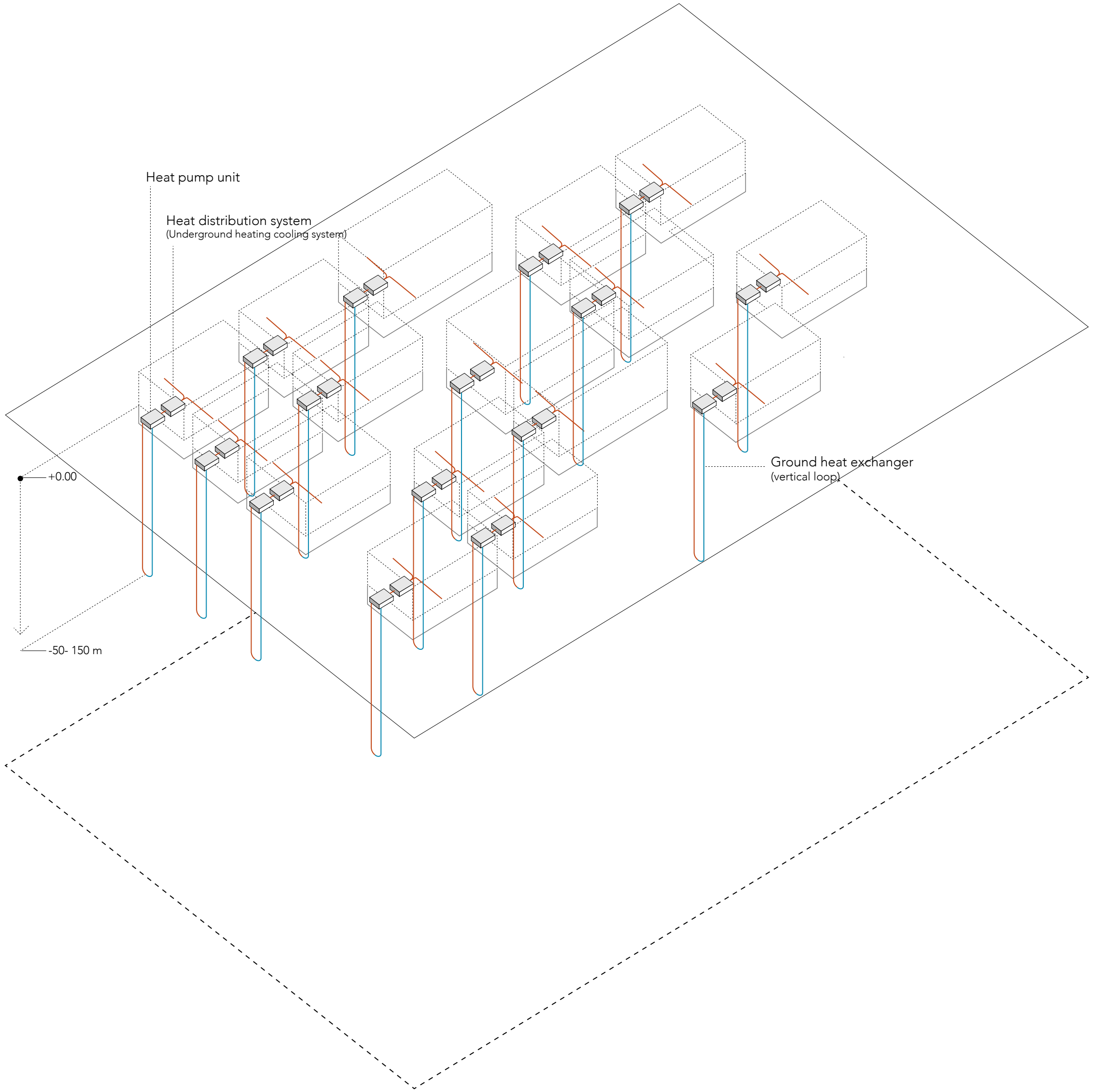
Climate Concept, Green Roof+ Water reservoir

Semi intensive green roof.
Better insullation of the building, heavy rainfall runoff



Climate Concept, Ground Source Heat Pumps system (GSHPs)

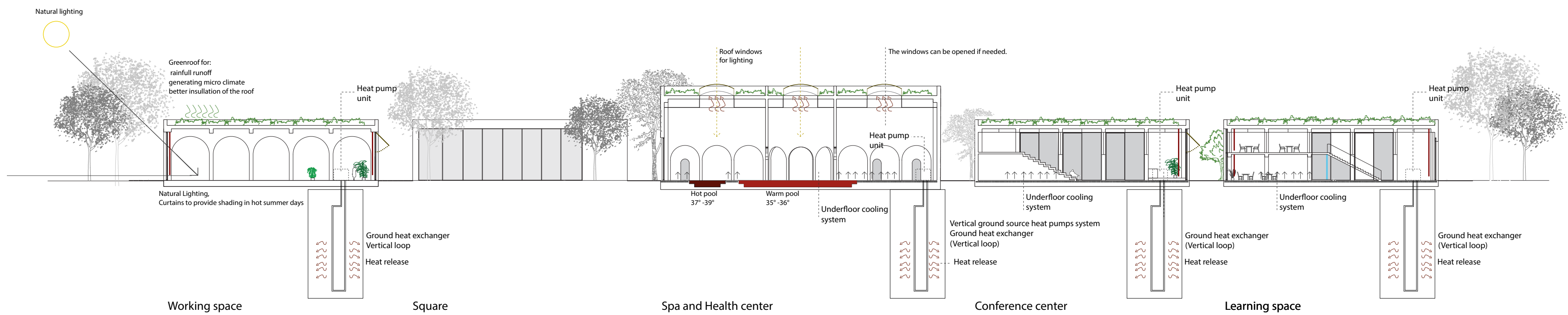
Decentralized Winter/ summer Cooling and heating system



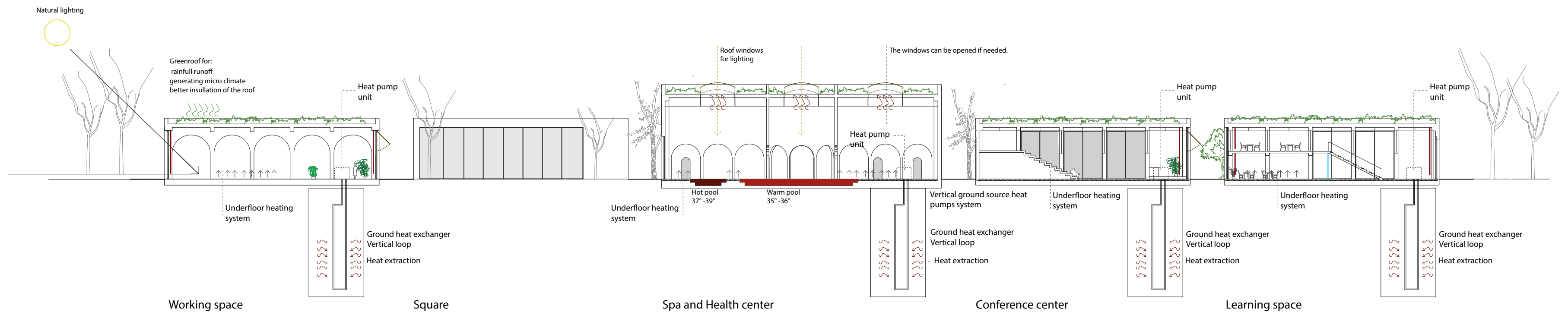
Climate Scheme

Natural lighting and combination of mechanical and natural ventilation, GSHPs

Summer



Winter



Summer

Cooling: Ground source heat pumps to cool down the space in hot summer days. The space are cooled by underfloor cooling system.

Balance mechanical ventilation system with heat recovery:
The spaces are ventilated (provided by fresh air) using mechanical. Yet the the windows are operable in moderate summer day.
In hot summer days, the spaces are totally ventilated by the mechanical system which extracts air from the outside. The incoming air is cooled down before it is delivered to the space. It is done by heat recovery using the outcoming air.

Winter

Heating: Ground source heat pumps to heat up the space in winterdays. The space are heated up by underfloor cooling system.

Ventilation with heat recovery:
Balance mechanical ventilation D (mechanical air discharge and mechanical air supply)
The spaces are totally ventilated (provided by fresh air) using a balance mechanical system D. The air is extracted from outside and heated up through (Heat Exchanger) by the discharged warm air form the inside before it is delivered to the space.
So, incoming air needs less energy to be heated up.

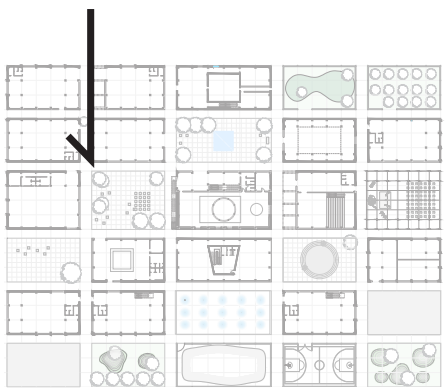
Impressions

Along Melis Stokelaan

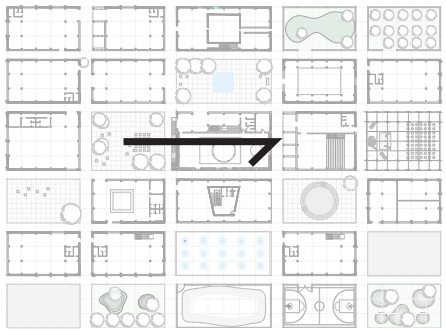


Alleyway

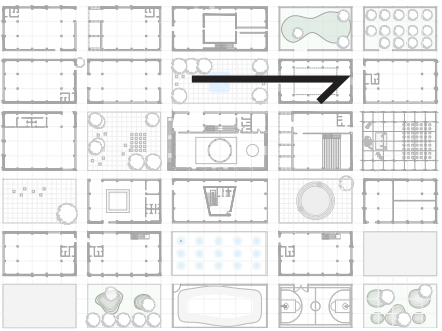




Hammam

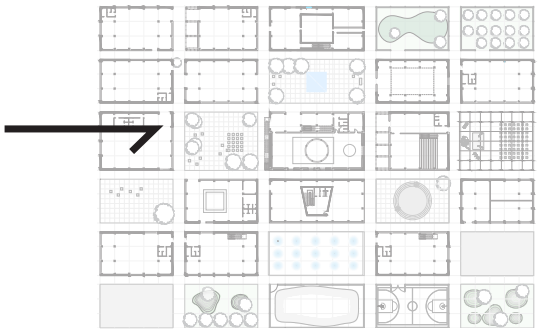


Religious Space



Workshop space





Kitchen

