Fluid space - introducing an elastic activator substantiated by an intuitive exploration of finding forms in Liège

Urban Architecture Graduation Studio

Architecture, art and literature are all forms that often find a way to live on forever and inspire people.

One of the first sentences I wrote in my graduation journal. A sentence I wanted to hold on to, designing my graduation project.



A Stage - as the site

A city landscape yet to be discovered A barren landscape Scarred city - divided



A Metropolitan Relic - post industrial city

Cars are the most important transport Bridges, tram and train - connects Sensitive surrounding - noise pollution History of multi cultural inhabitants An influx of visitors/new inhabitants

## So fluid space what does it stand for?

Non - places (Marc Augé)
Empty spaces (Franck, K.A.)
Informal space (Hudson, J.)
Wastelands (Gandy, M.)
Inbetween spaces (Ghel, J.)
Terrain vague (Solà - Morales, Ignasi de)

**Fluid spaces** - Van Oeveren, I.M. The type of urban space I have observed in Liège.

As for me as a researcher:

**Fluid spaces** refer to empty, overgrown, or neglegted spaces within the city, but most important, with a certain amount of visible potential fluidity.

So **fluid spaces** have the potency to be highly mouldable and dynamic environments.

(un)productive - monofunction (productive for its function, non for its surroundings)

empty space - available for the unintended

abandoned - no visible ownership

indeterminate - no visible relationship between activities

fluctuating - visible activity change overtime

Spatial characteristics (Solà - Morales, Ignasi de. (1995). Terrain vague. In Cynthia Davidson (Ed.) Anyplace. Cambrige, MA: MIT Press.)



Map of identified Fluid spaces

Nr. 1 - (un)productive parkinglot under bridge

Nr. 2 - empty space inbetween tramdepot and bridge

Nr. 3 - flucuating space underconstruction

Nr. 4 - abandoned space inbetween buildings

Nr. 5 - fluctuating space underconstruction inbetween buildings

Nr. 6 - unproductive space closedoff

Nr. 7 - (inderterminate) non maintained space

Nr. 8 - flucuating space inbetween buildings

Nr. 9 - (un)productive garage space inbetween buildings

Nr. 10 - time (un)productive space supermarket parking

Nr. 11 - time (un)productive space tunnel

Nr. 12 - unproductive space closedoff

Nr. 13 - empty space

Nr. 14 - (un)productive garages inbetween buildings

Nr. 15 - empty unproductive space

Nr. 16 - abandoned non used venue

Nr. 17 - indeterminate space on a corner

Nr. 18 - abandoned building

Nr. 19 - (un)productive garage space

Nr. 20 - fluctuating space under construction

Nr. 21 - (un)productive space parkinglot

Nr. 22 - time unproductive space parking supermarket

Nr. 23 - flucuating entrance space to innercourt

Nr. 24 - (un)productive garage space inbetween buildings

Nr. 25 - indeterminate space

Nr. 26 - abandoned house

Nr 27. (un)productive reclycle lot

Spatial characteristics (Solà - Morales, Ignasi de. (1995). Terrain vague. In Cynthia Davidson (Ed.) Anyplace. Cambrige, MA: MIT Press.)

Social lens - mapping activities or possible activites

Ecological lens - mapping different gradations in an ecological perspective

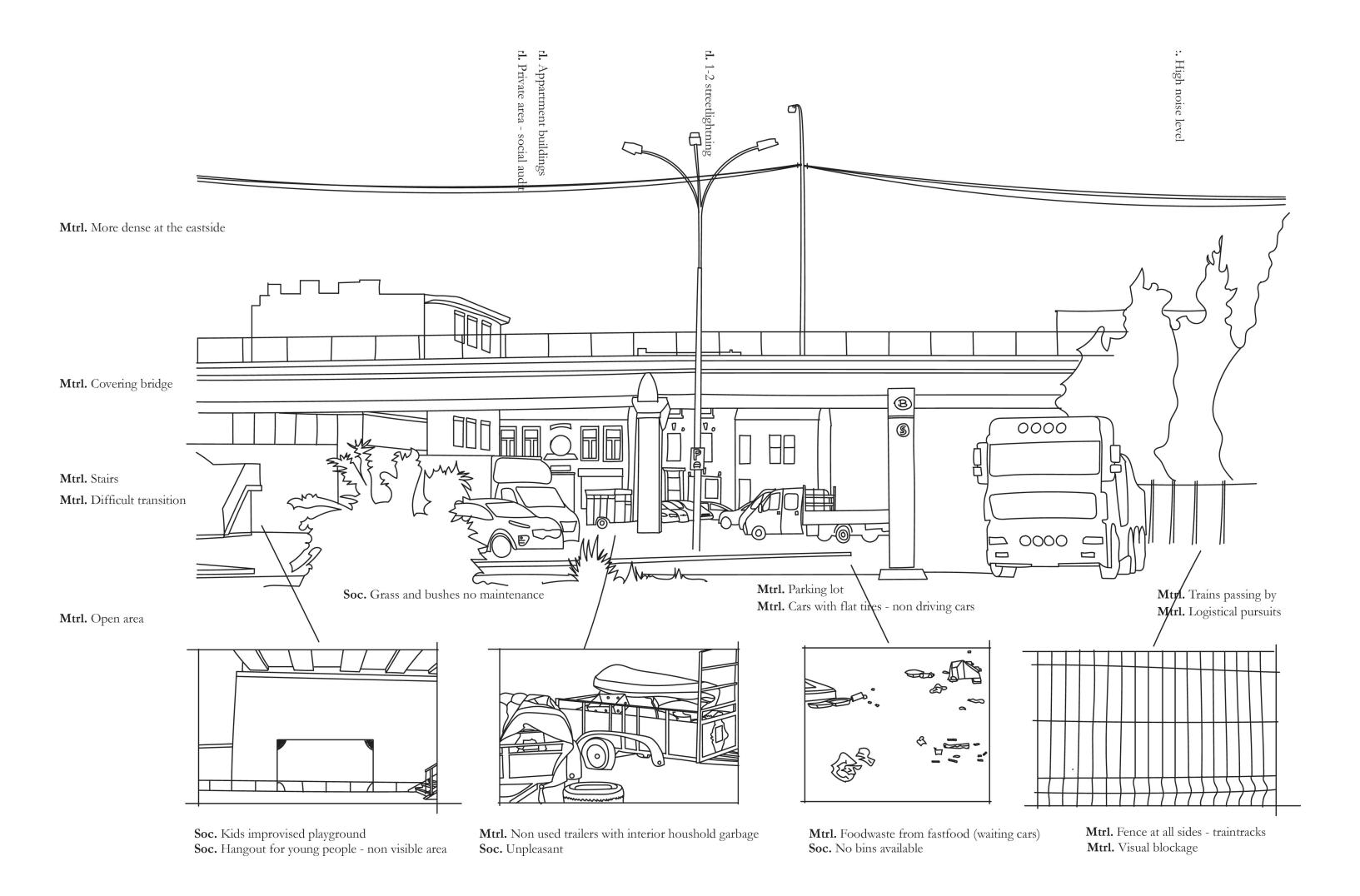
Material lens - mapping of external features (visual)

Mtrl.

Mapping dimensions by cartopology method (Dearhunter (2018), method cartopologie)

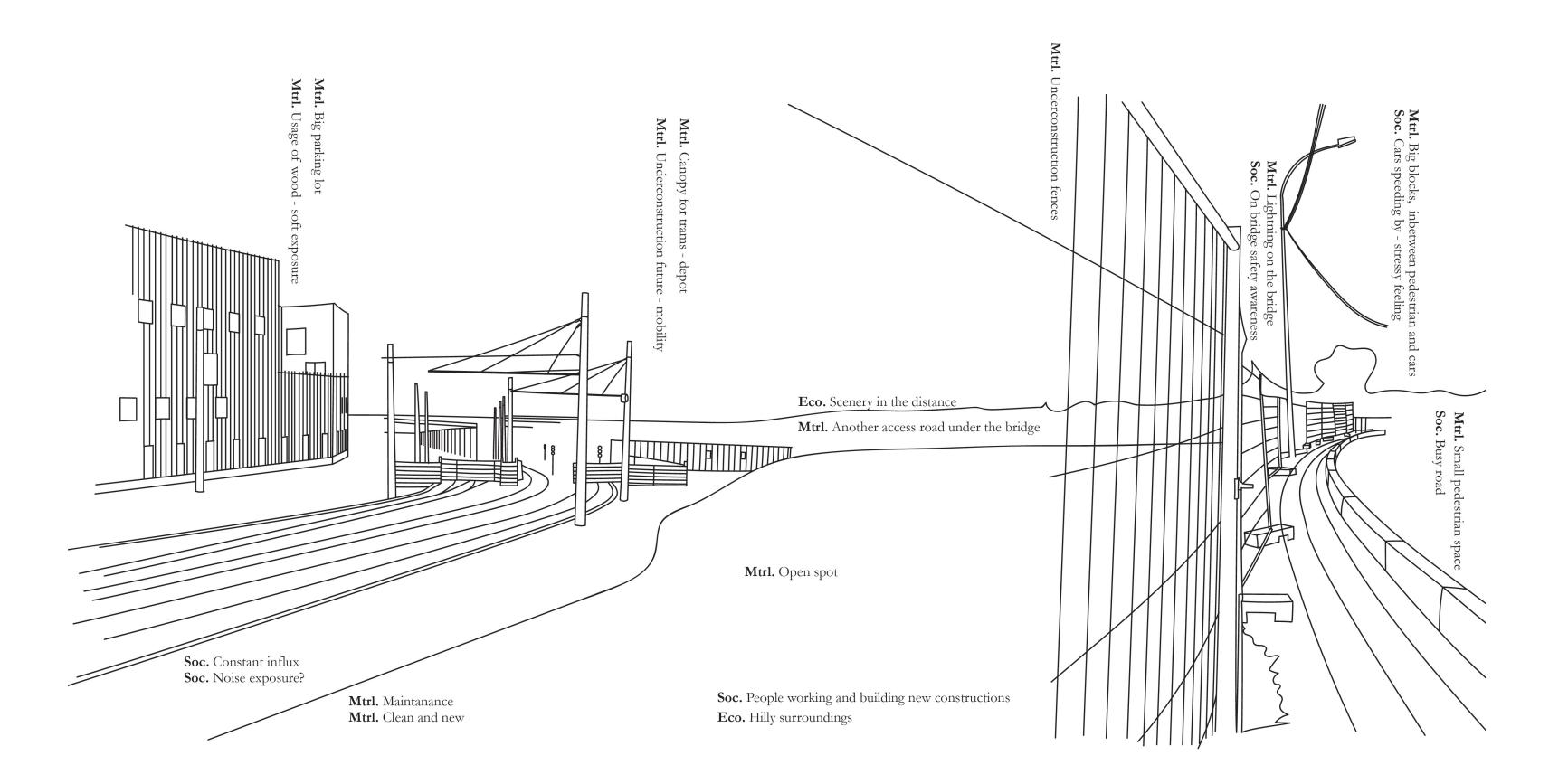


Nr. 1 - (un)productive parkinglot under bridge



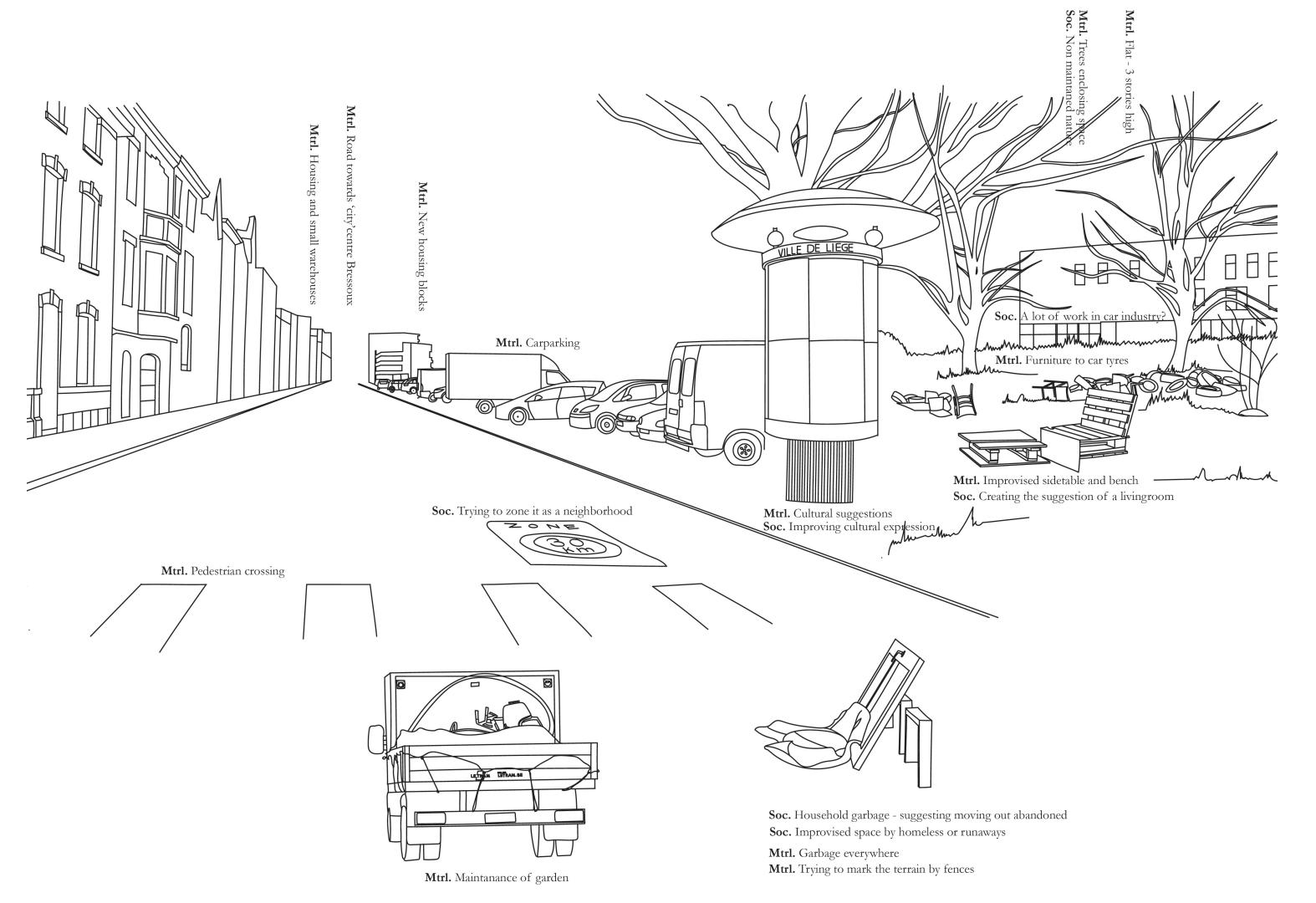


Nr. 2 - empty space inbetween tramdepot and bridge

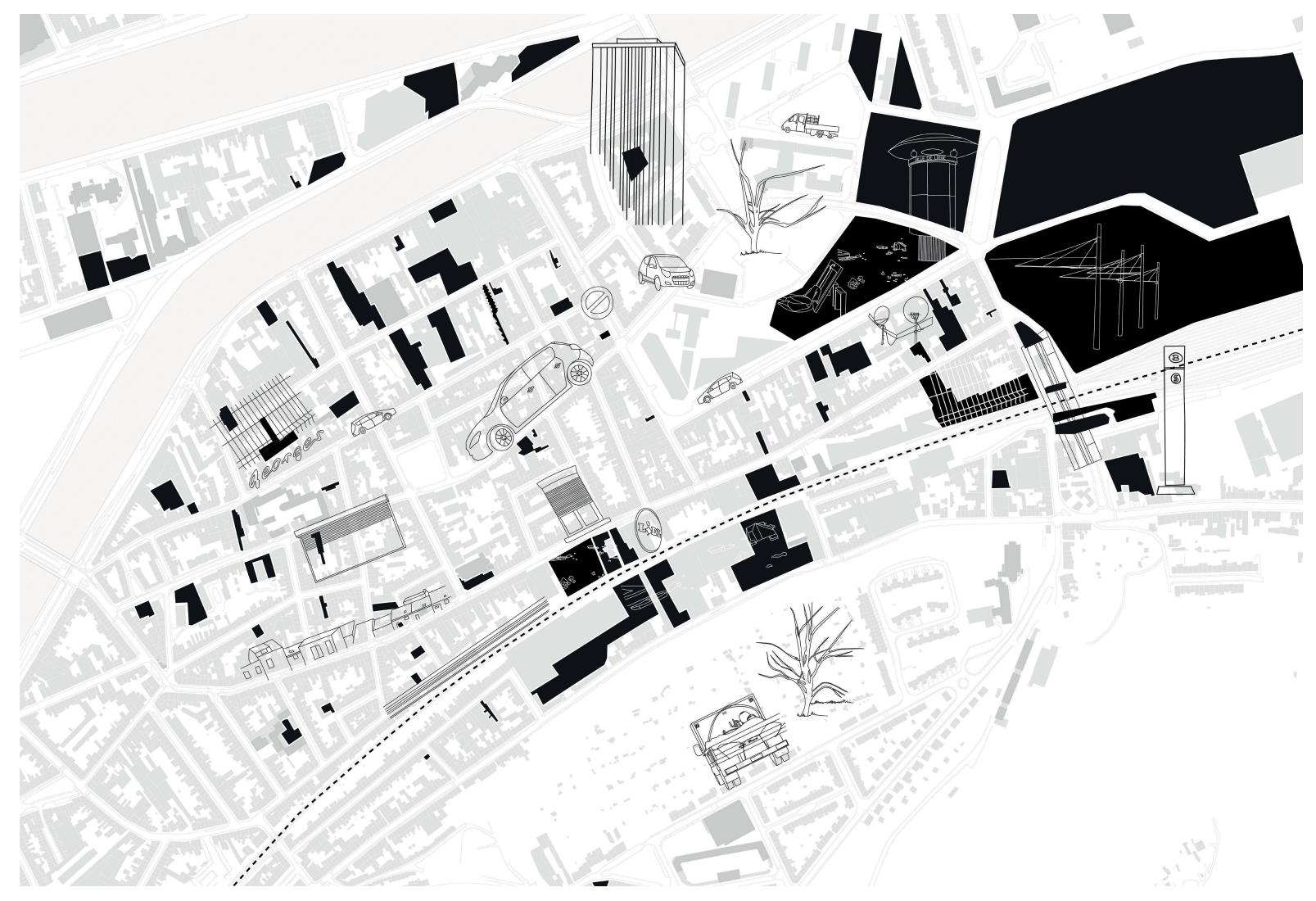




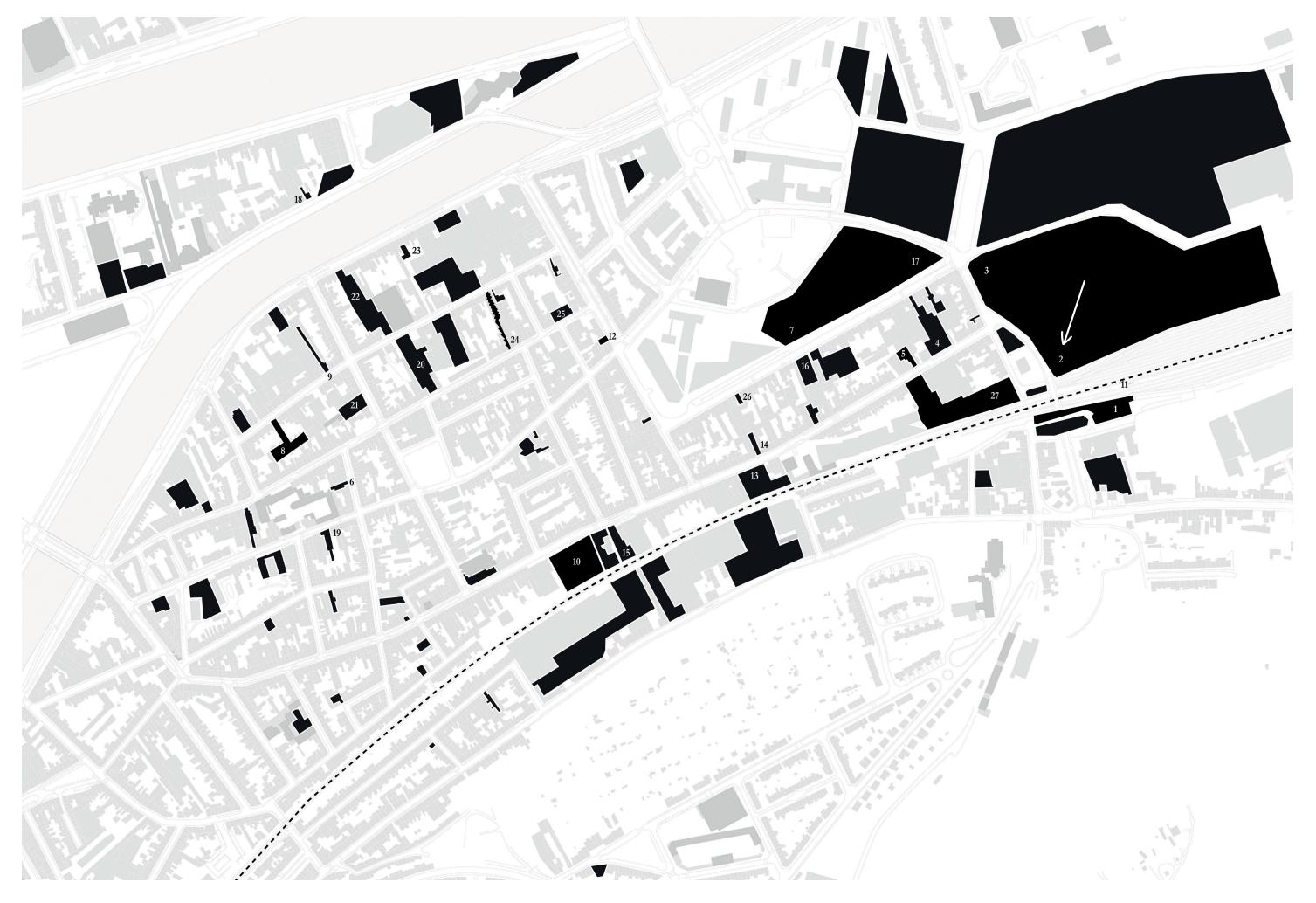
Nr. 17 - indeterminate space on a corner



Nr. 17 - indeterminate space on a corner

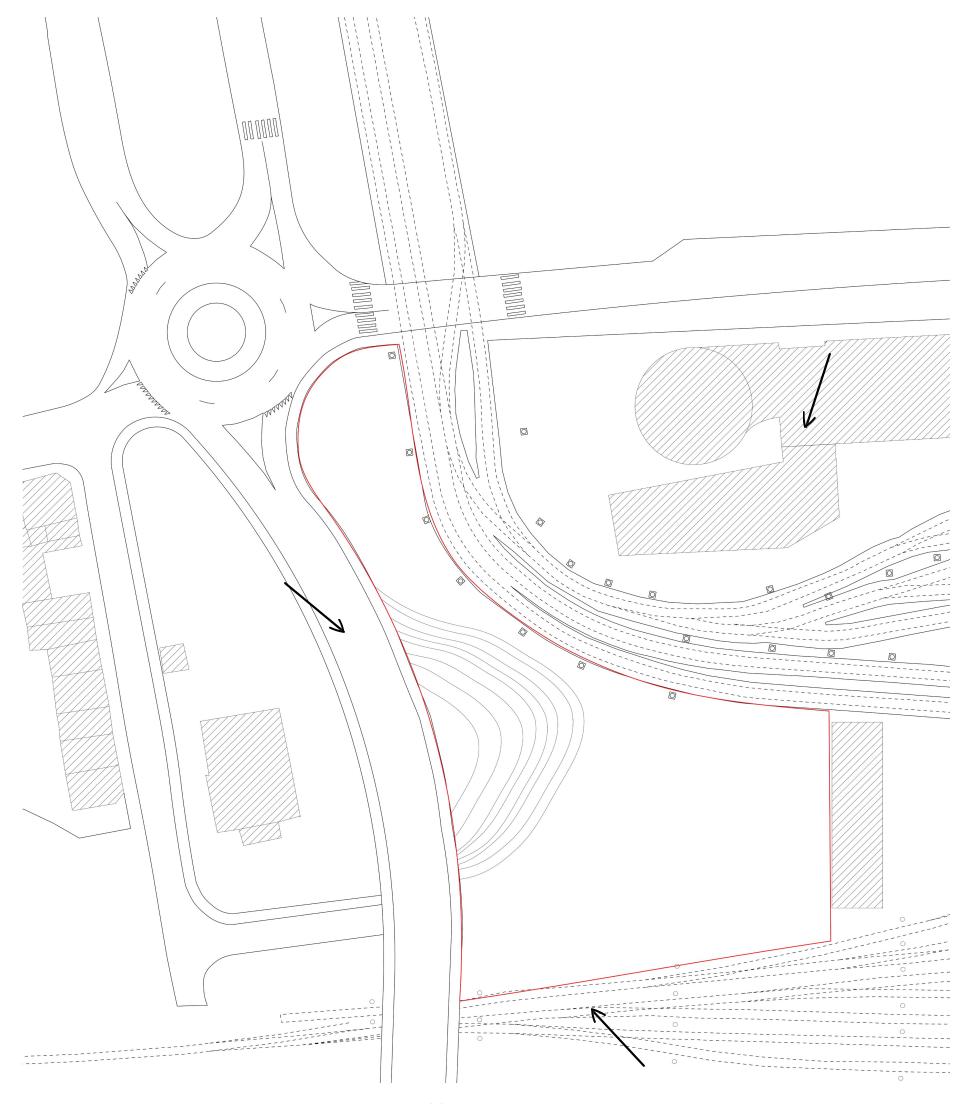


Summery of analyzed spatial characteristics in Liège

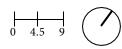


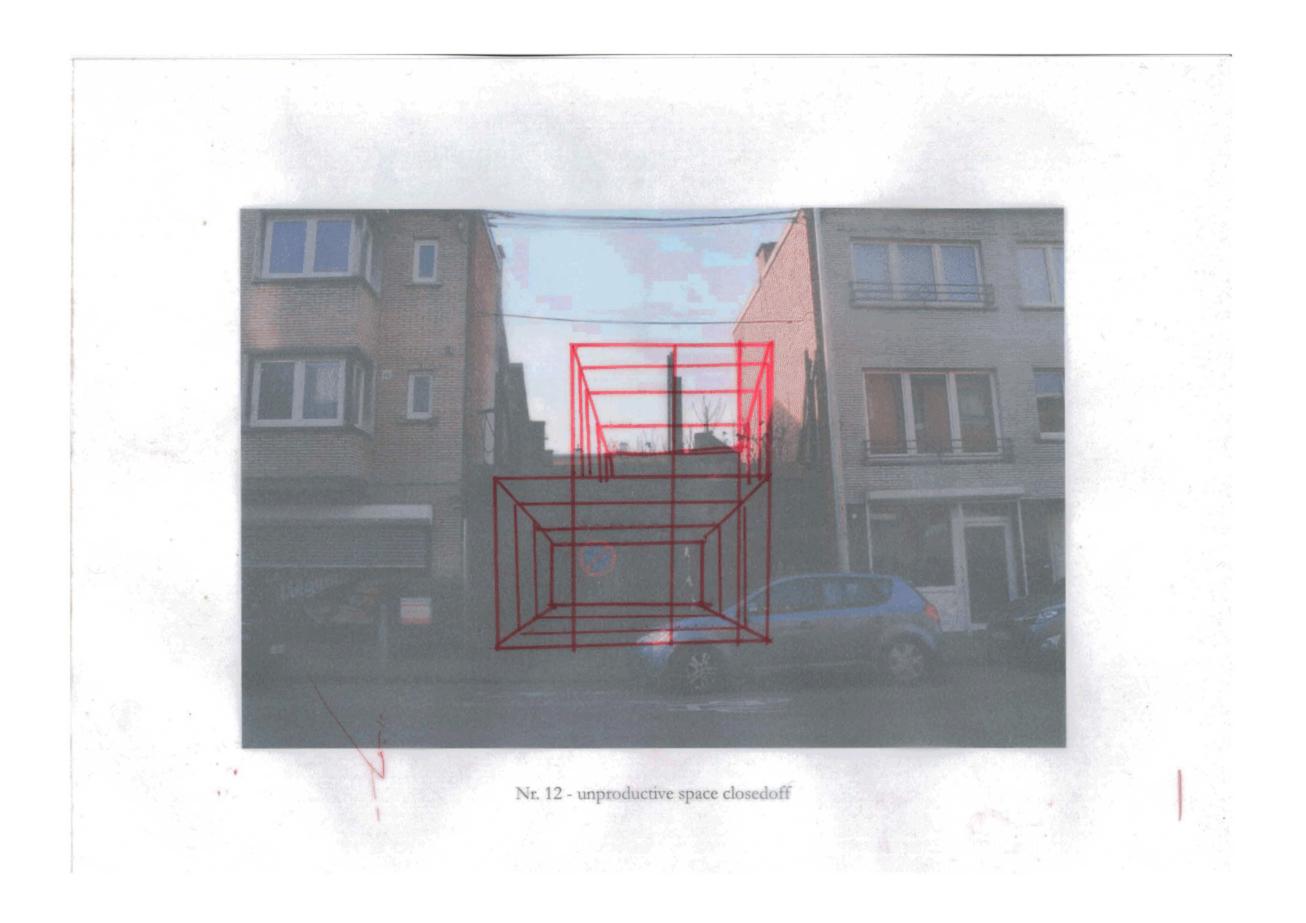
One of these sites became the graduation project site: nr 2 empty space inbetween tramdepot and bridge. A site with potential but also a lot of challenge.

1:2000



Major influences of the tram, train and bride. The site is about 4450 m2. About the size of a footbal field.

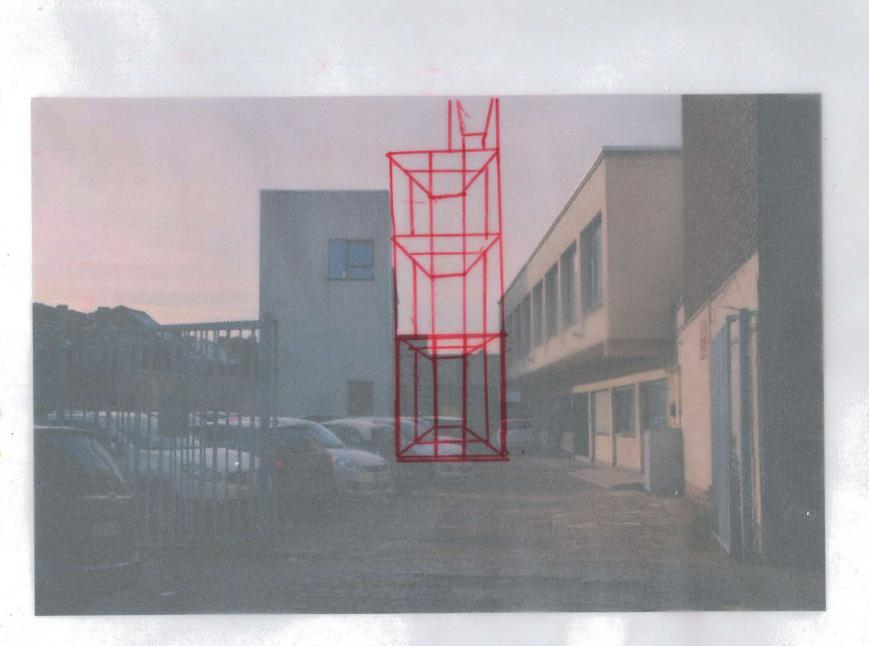




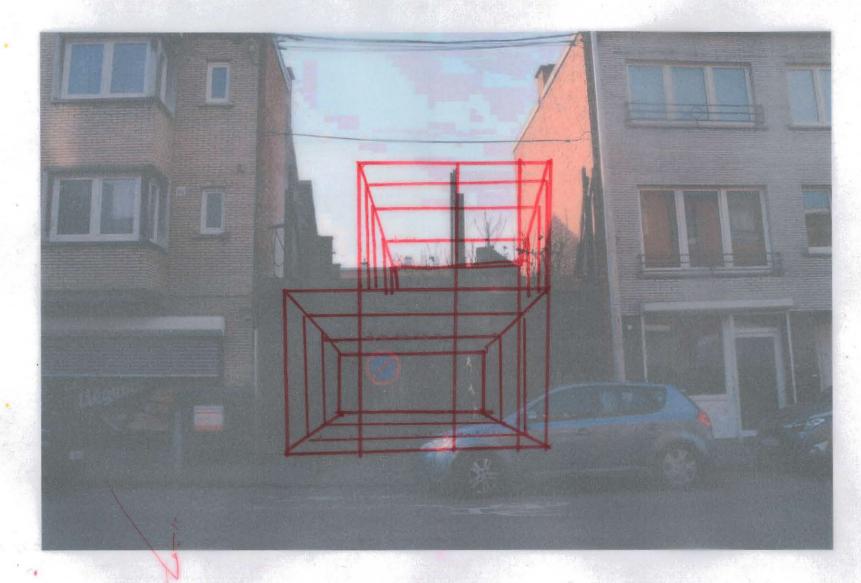
A kineograph of exploring an elastic activator - hand-drawn wire models on chalk paper and photo presented in a flipbook

Followed by a selection of exploring an elastic activator -

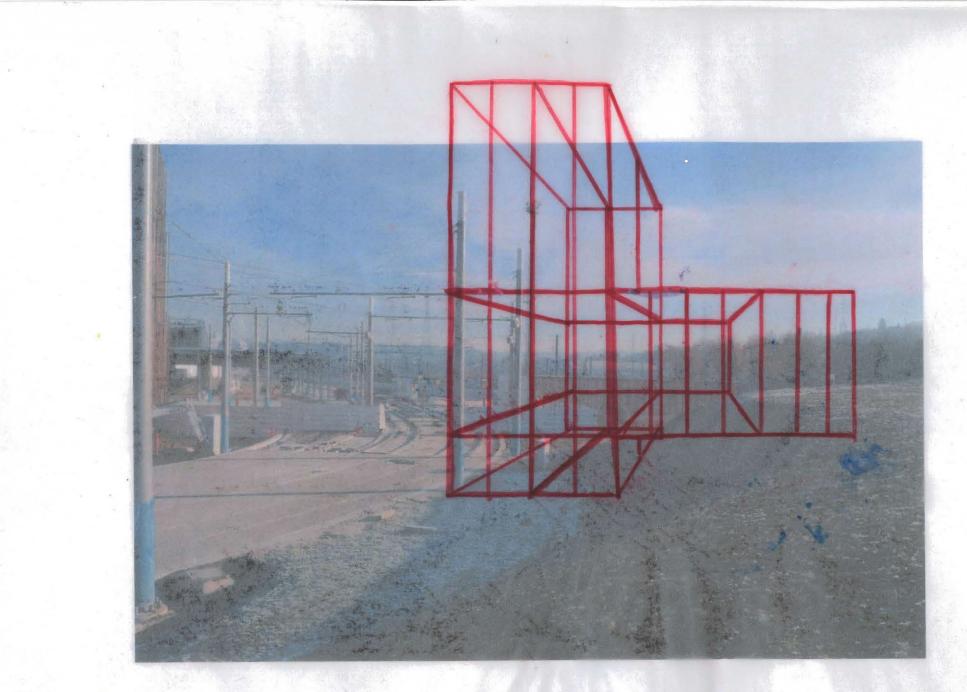
hand-drawn wire models on chalk paper and photo



Nr. 21 - (un)productive space parkinglot



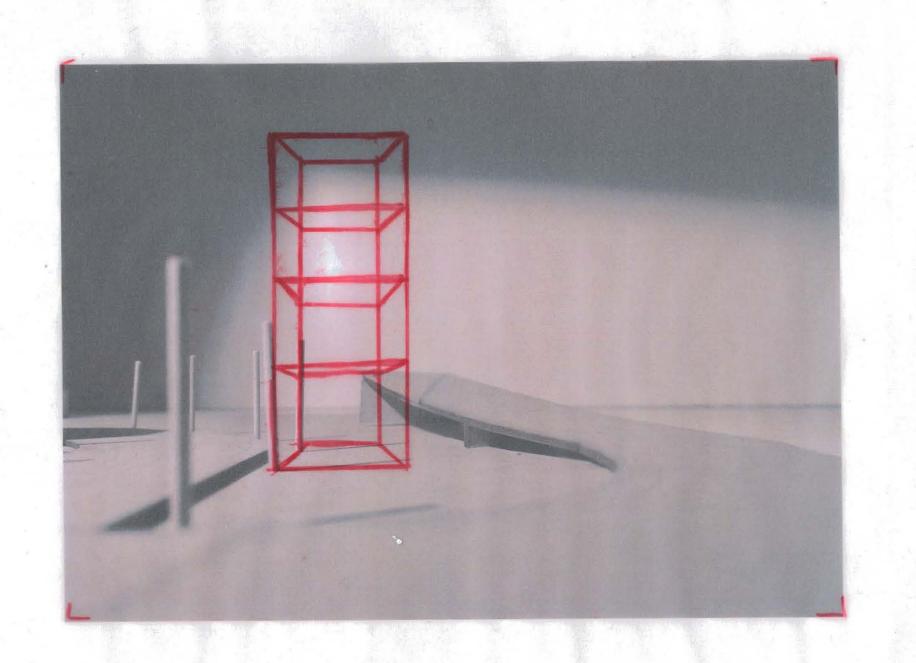
Nr. 12 - unproductive space closedoff

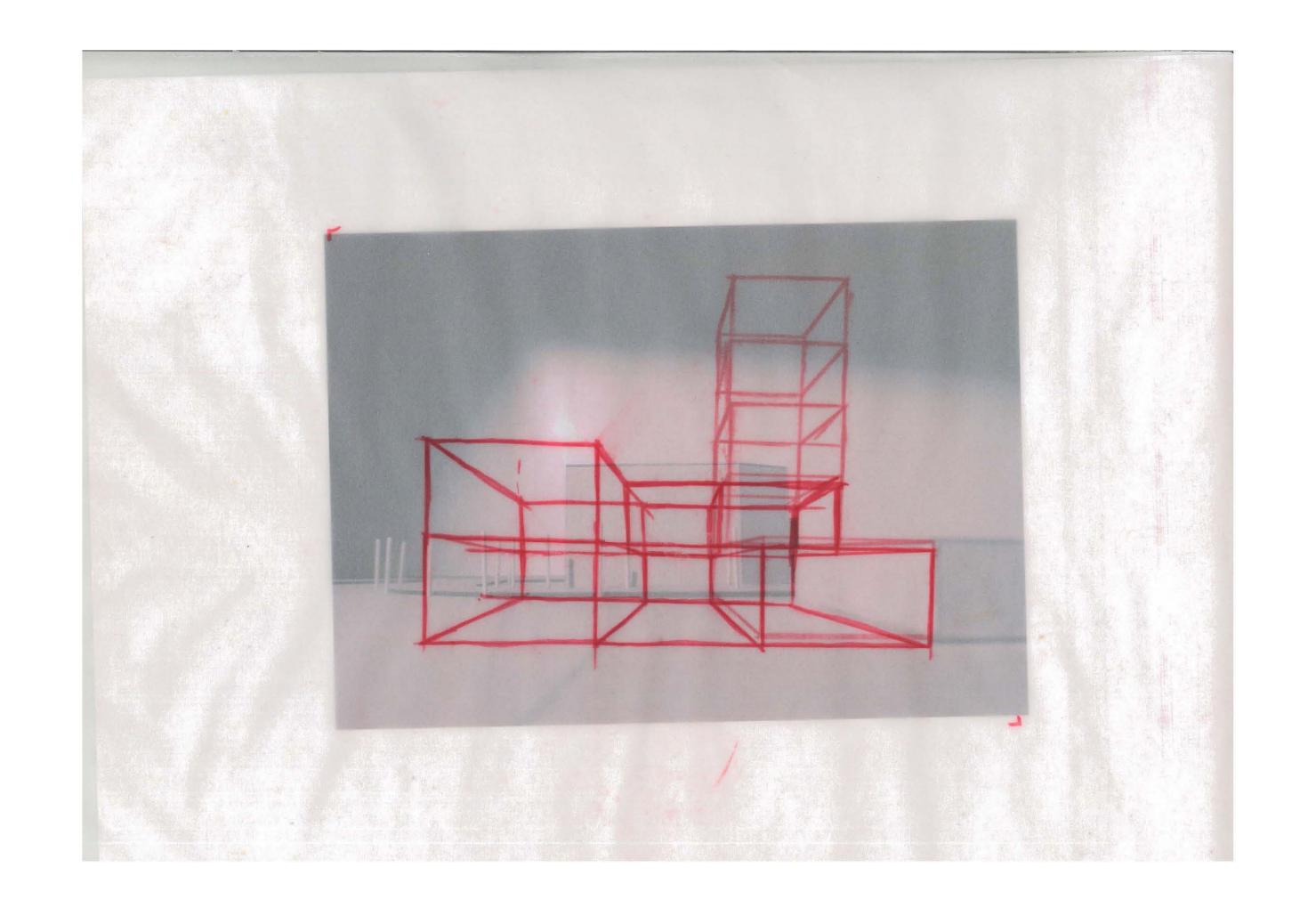


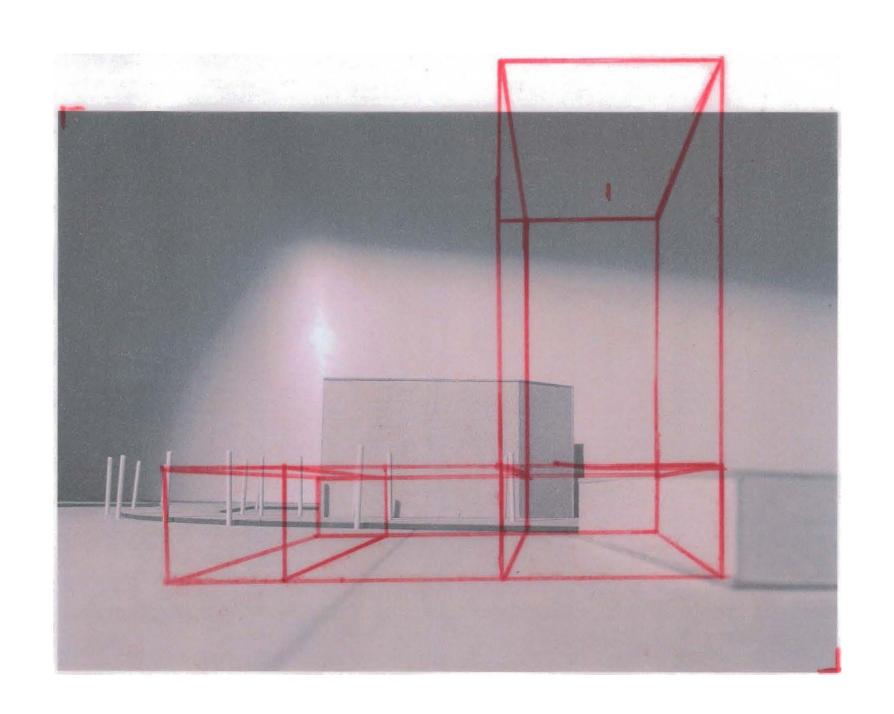
Nr. 2 - empty space inbetween transdepot and budge

What culminated in a follow-up of a 1:200 model of the site -

a selection of where hand-drawn wire models could be fitted into the site

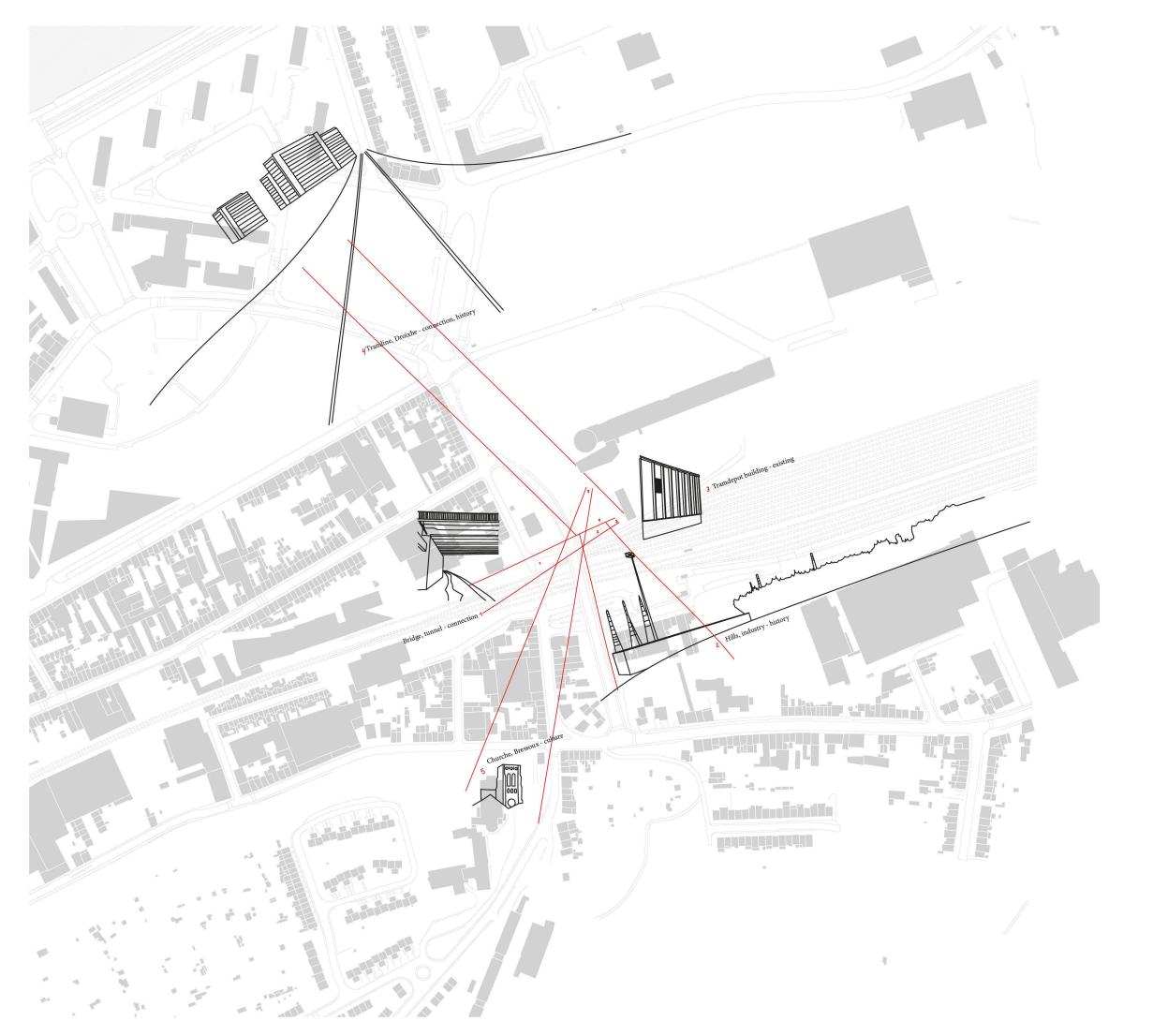






## As I was drawing:

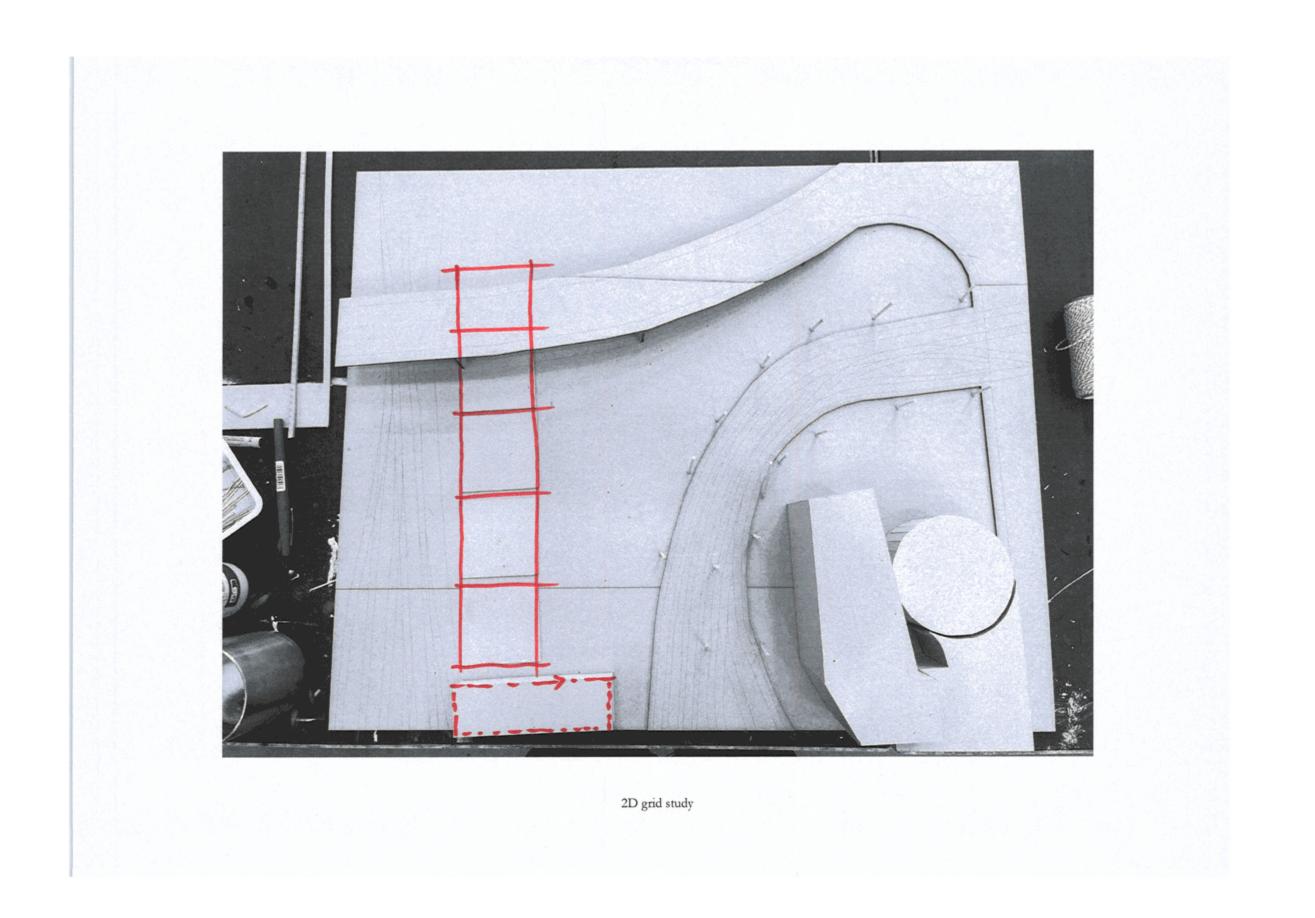
I felt two elements having influence on these grids; physical elements, and non-physical. My intuition.



(Asking the question "What did I see on sight, which could be an important visual in the design?") Sight lines in the Fluid space

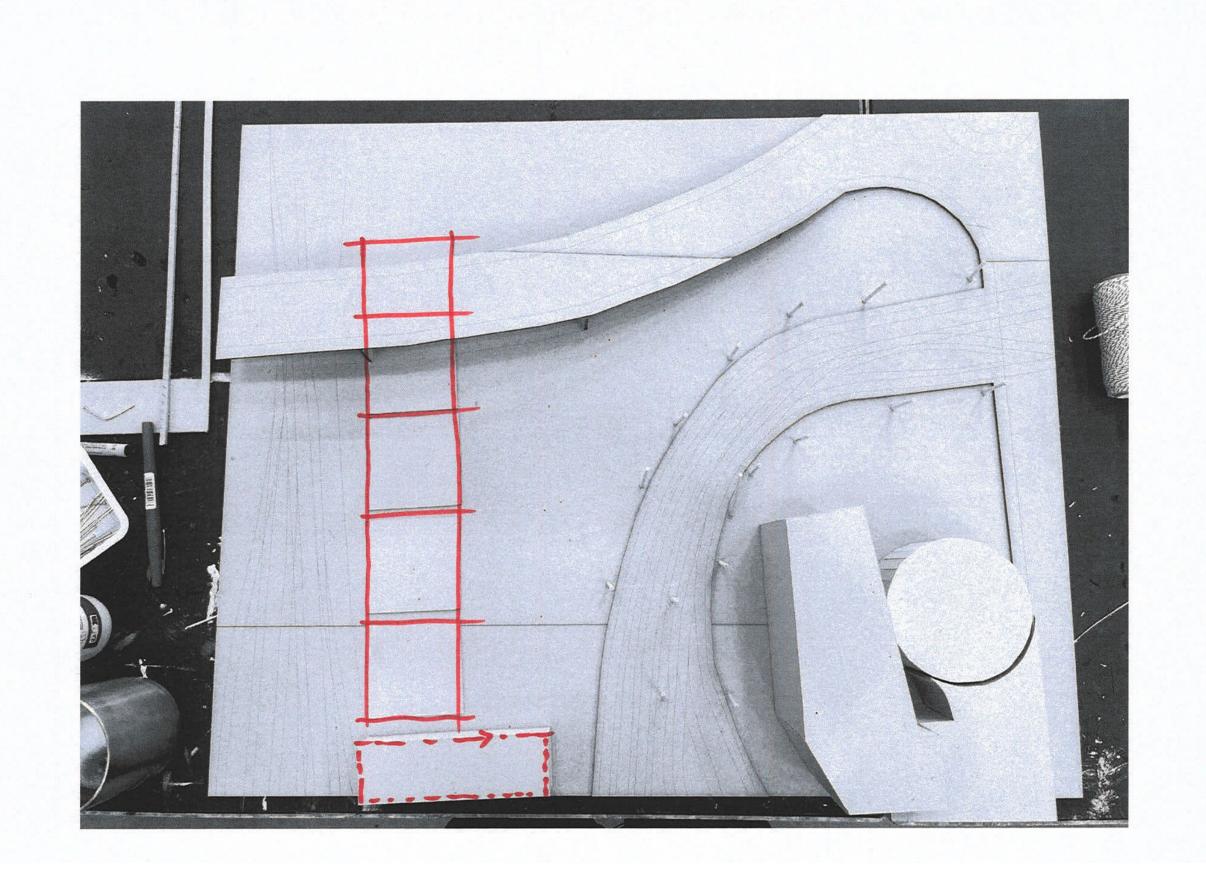
Going from an red wire model to something with dimensions -

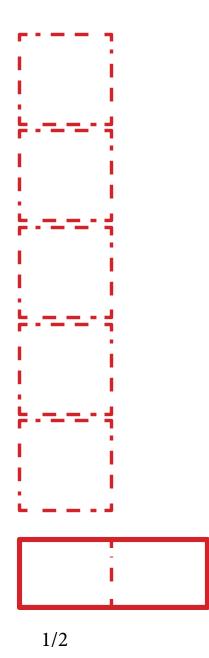
2D grid test to help grasp proportions, depth and the influence of the context on the site.

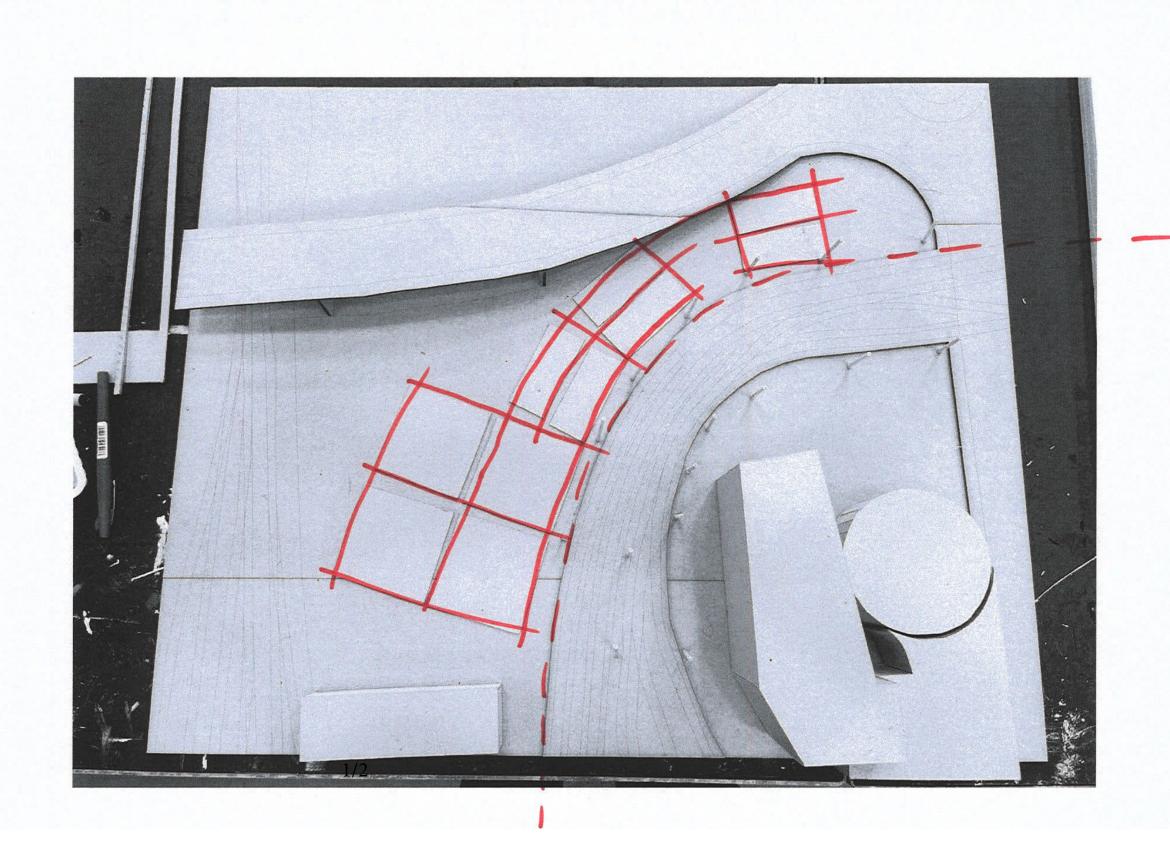


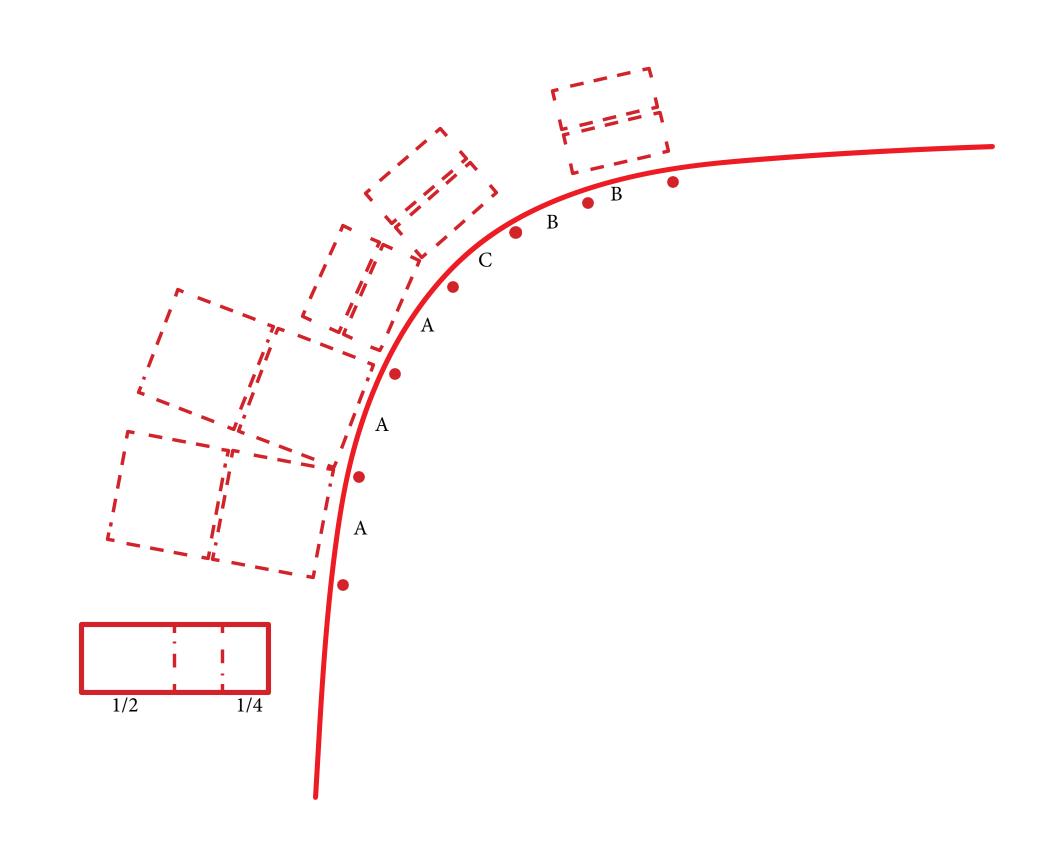
A kineograph of an intuitive grid - hand-drawn and physically formed cards and blocks grids on photos presented in a flipbook

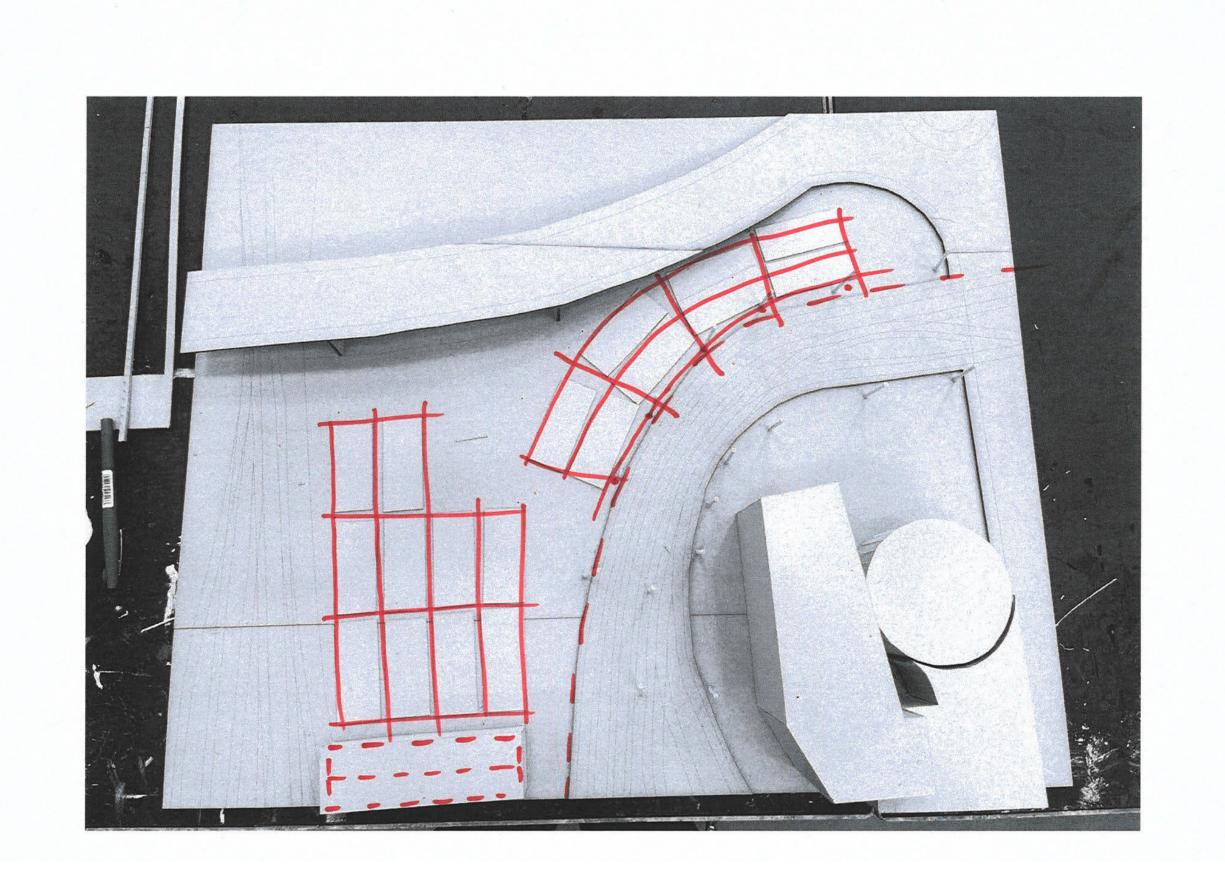
Followed by a selection of introducing an elastic activator - representing potential proportions to form a grid

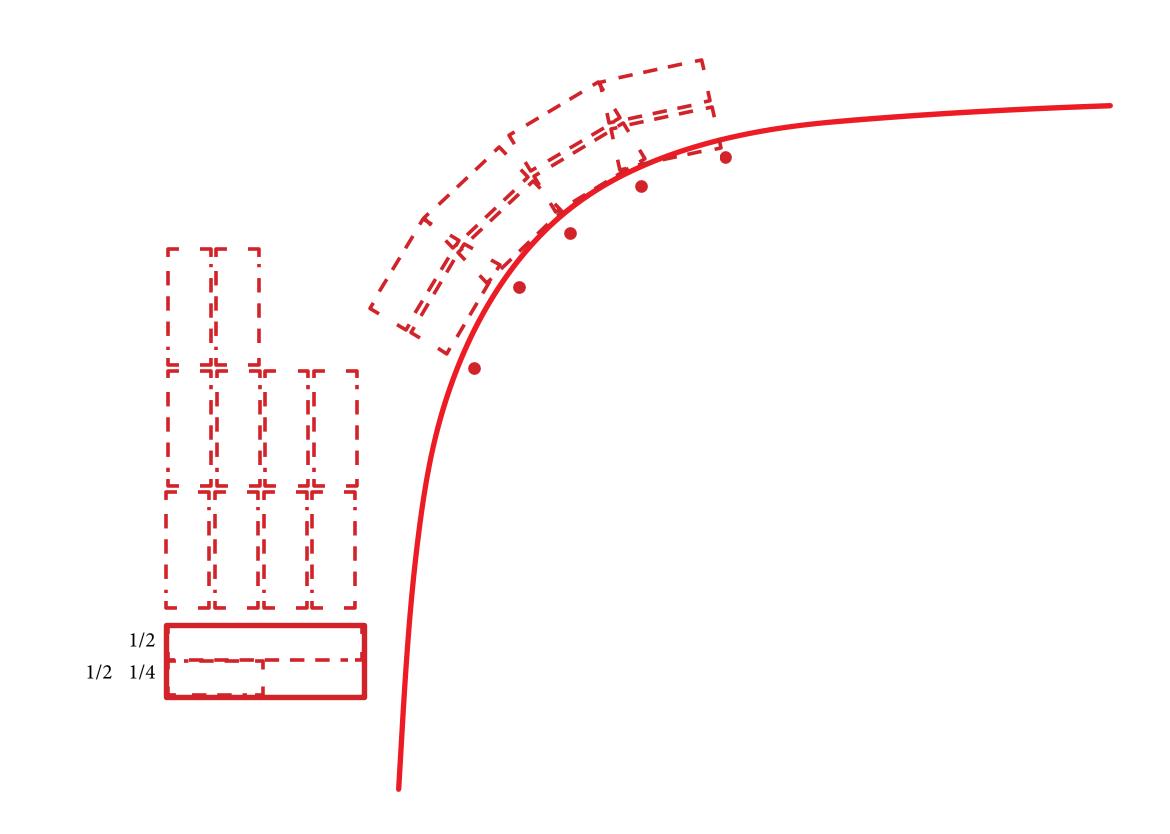


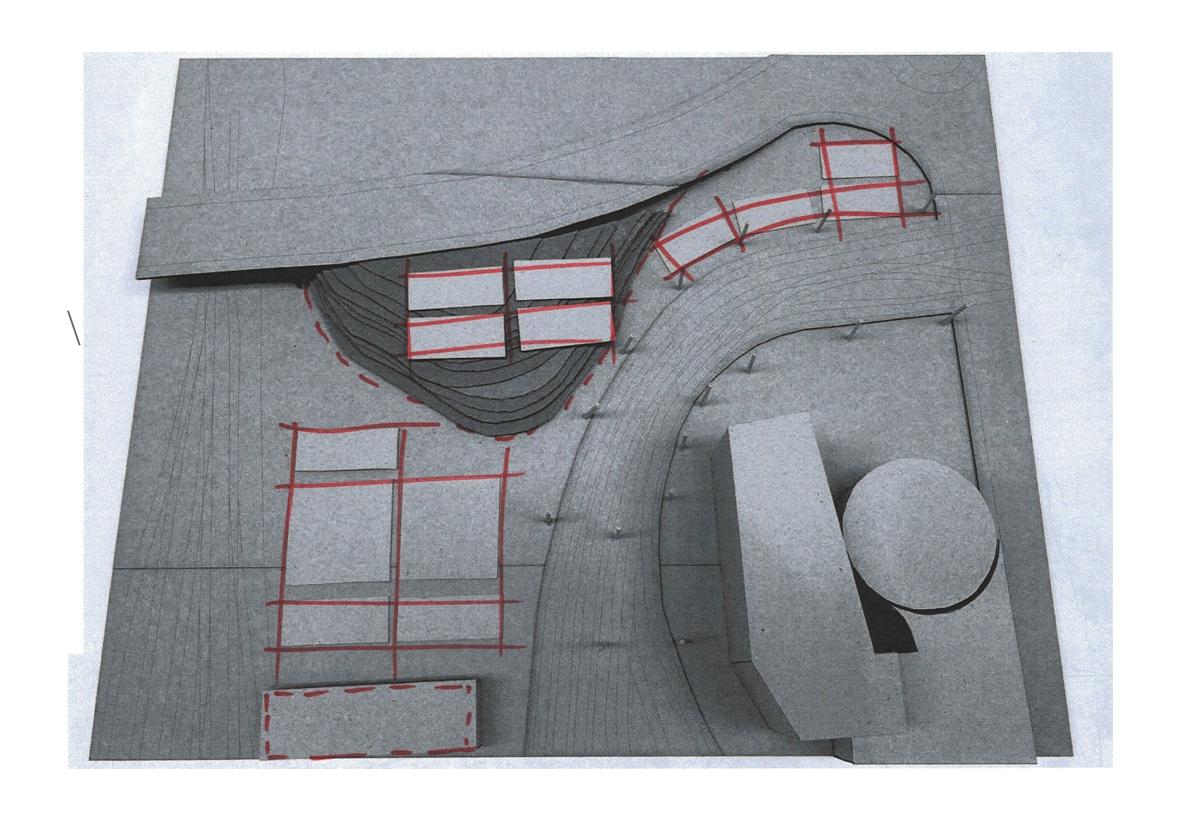


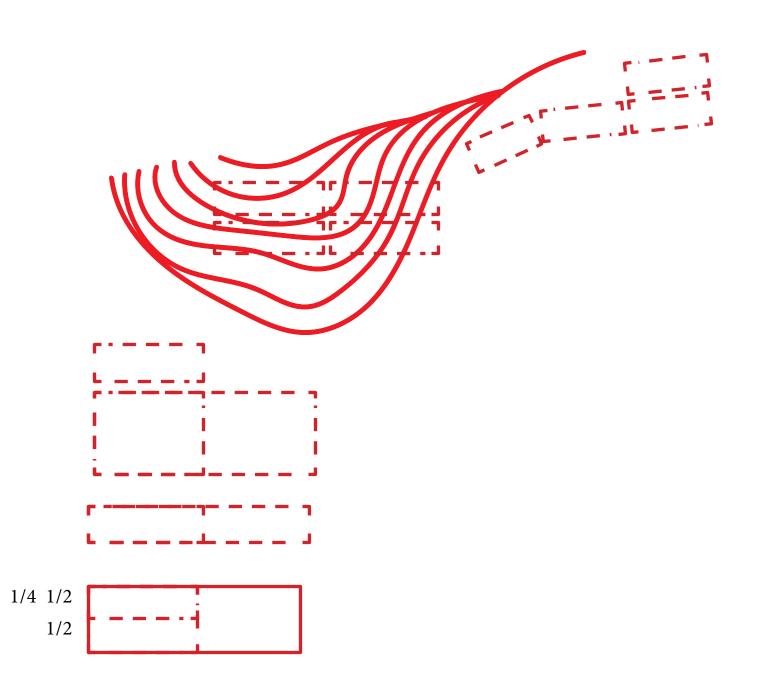


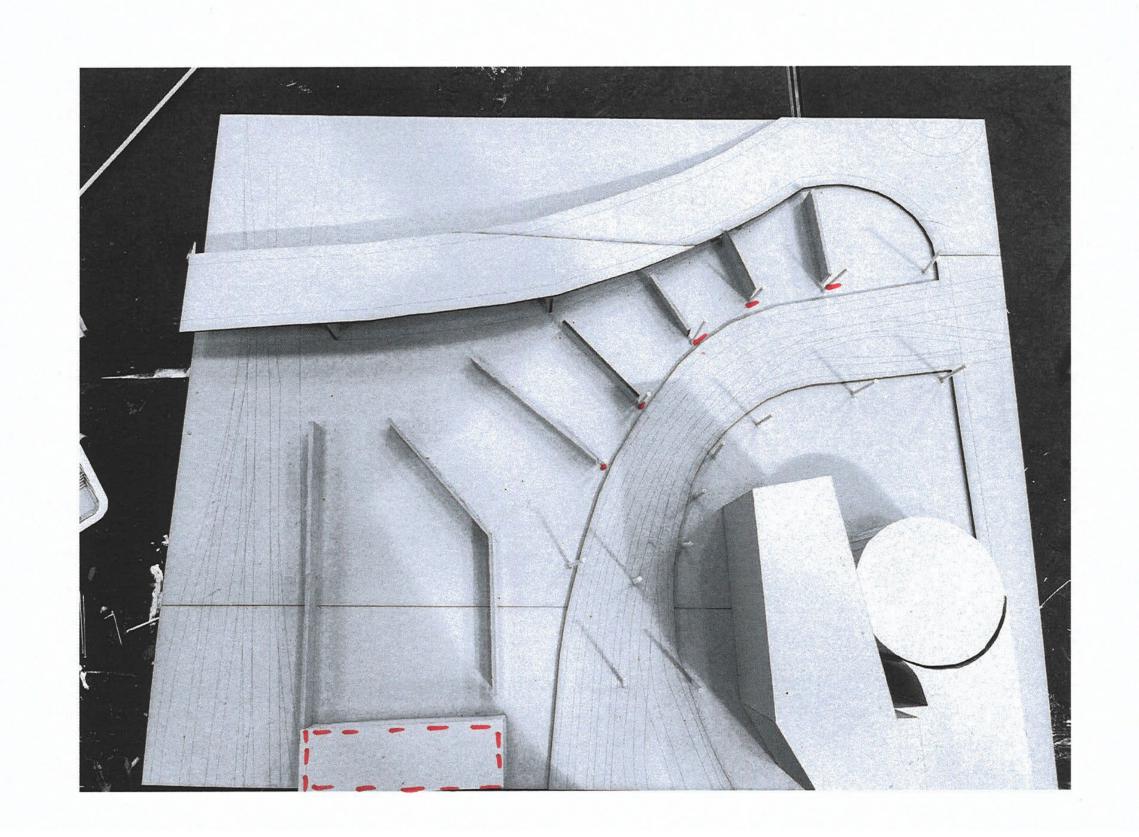


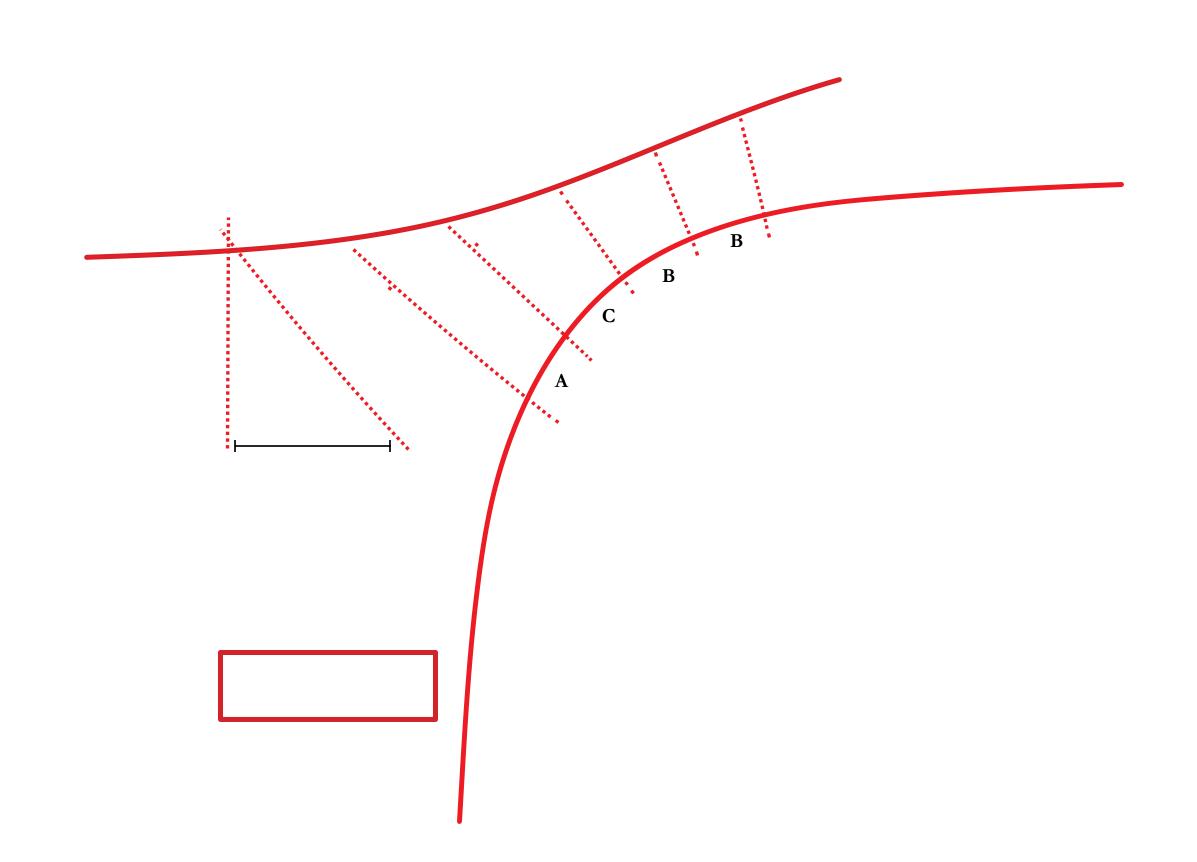


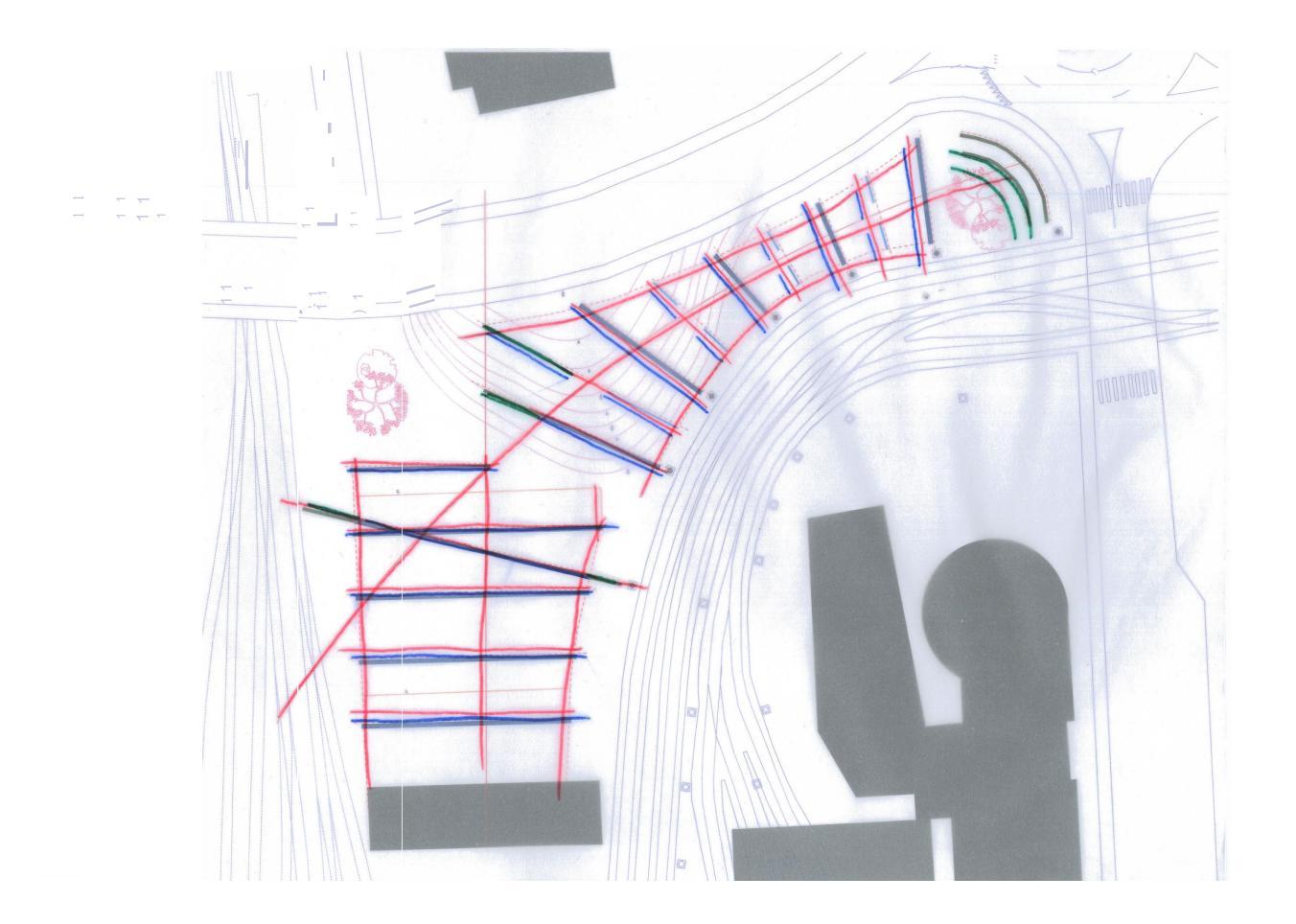


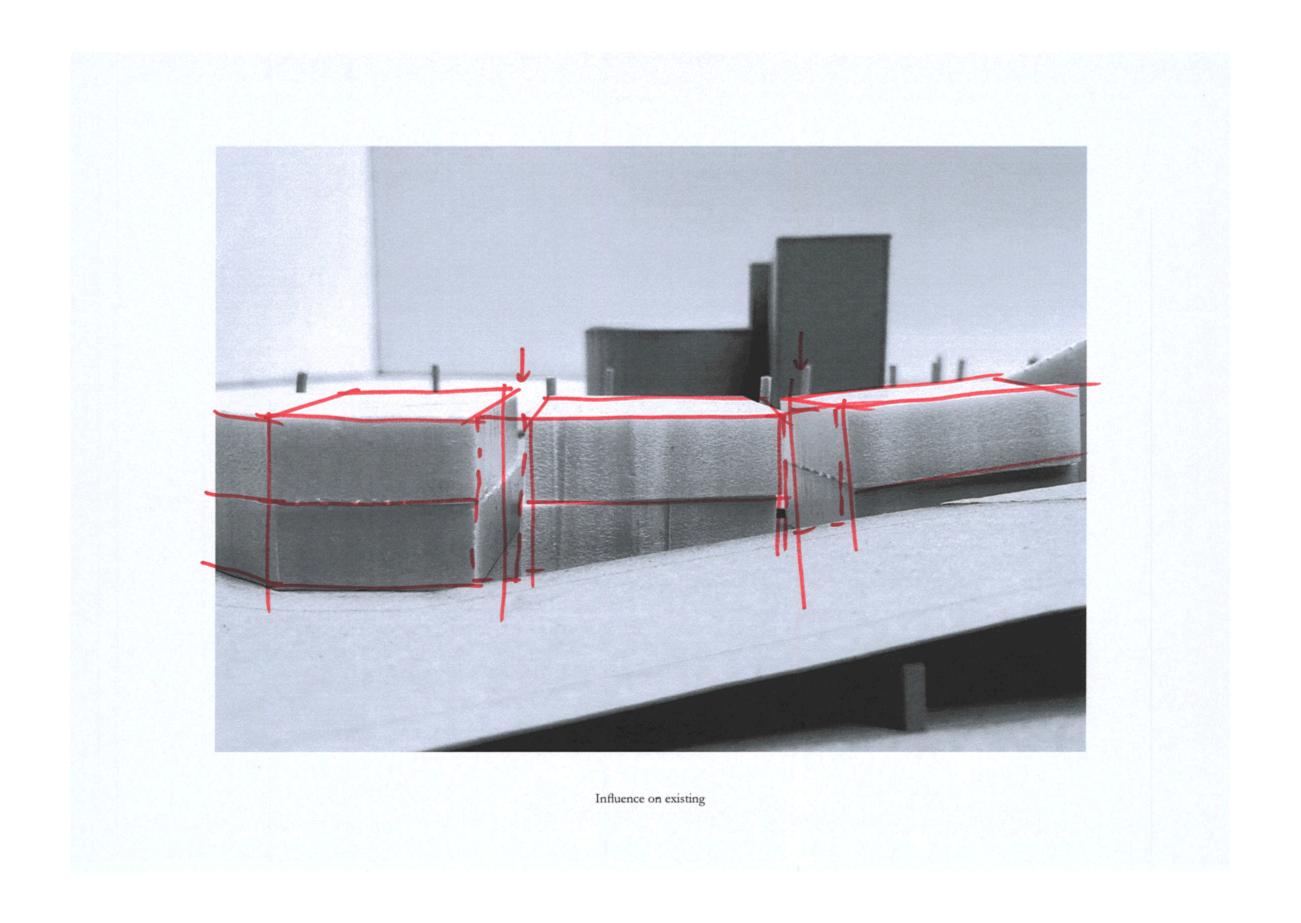




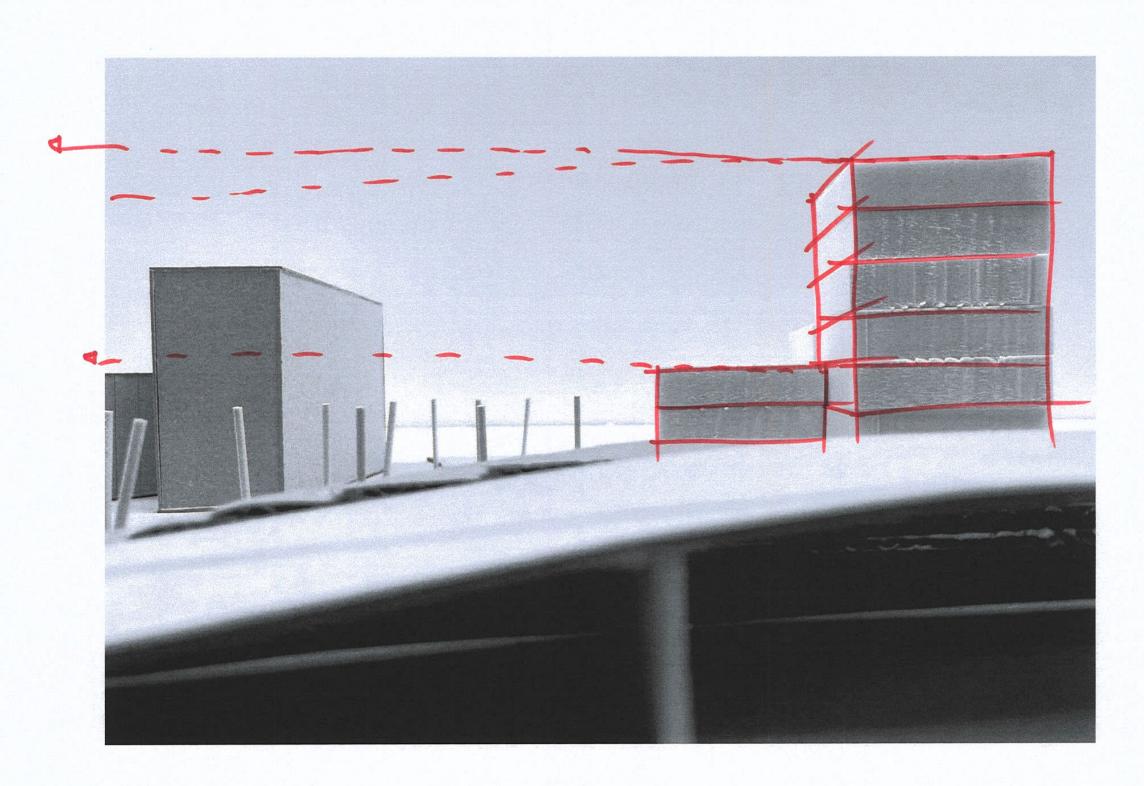




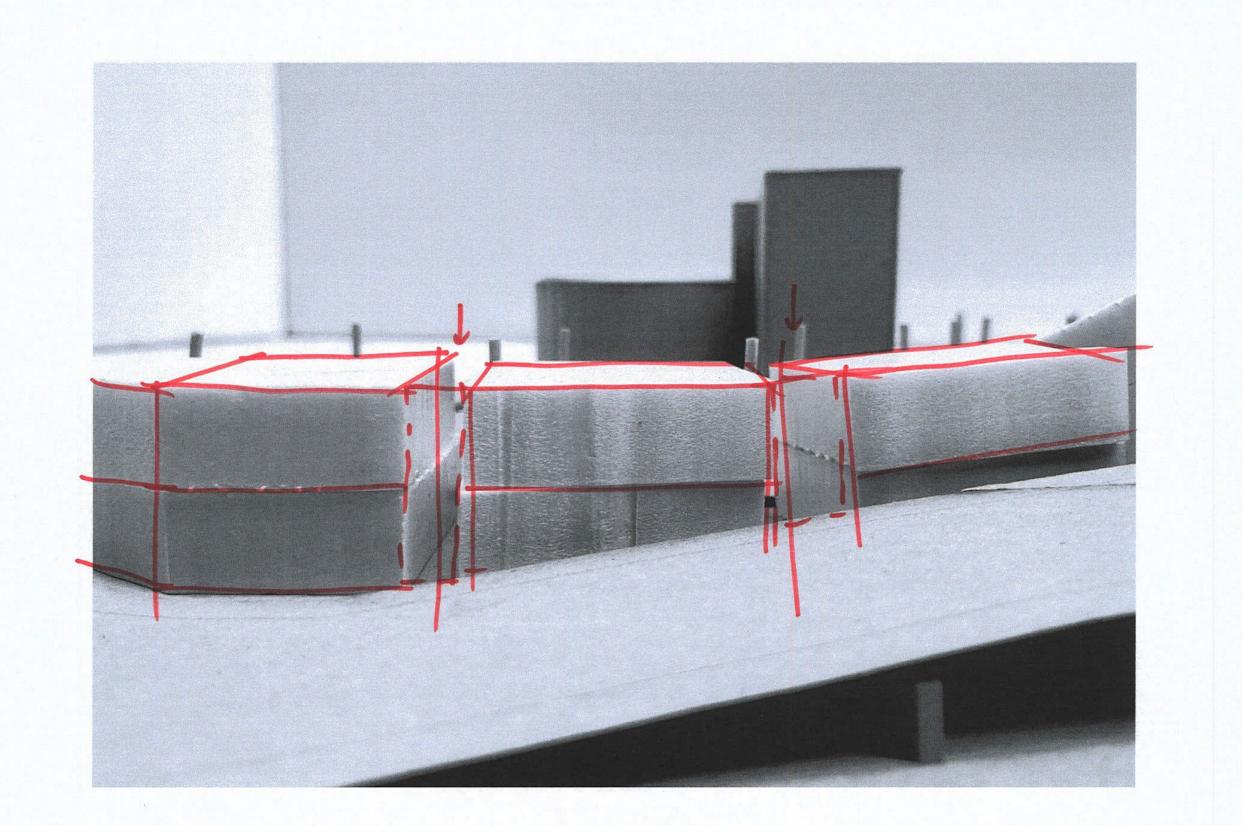


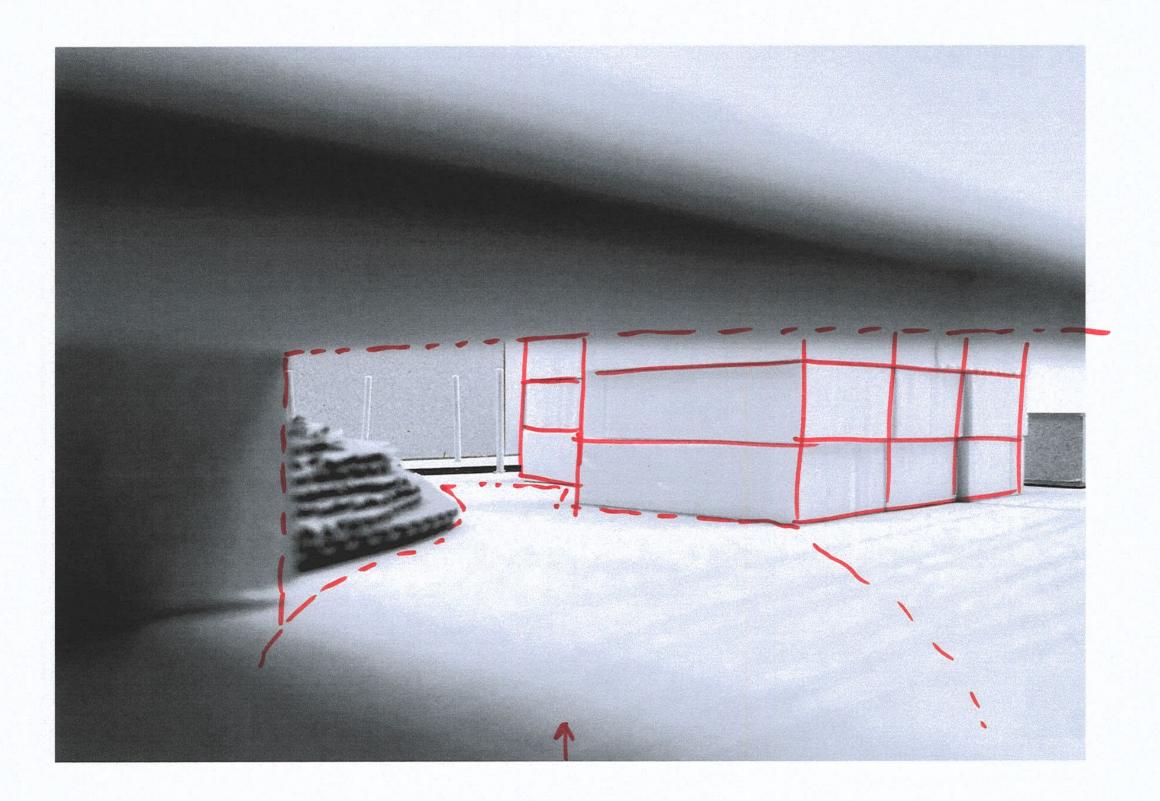


A kineograph of finding forms - a 3D study on how the form of physical and non-physical elements effect a building design



Influence on existing





Influence on existing

## After all this research and designing the goal became more and more clear:

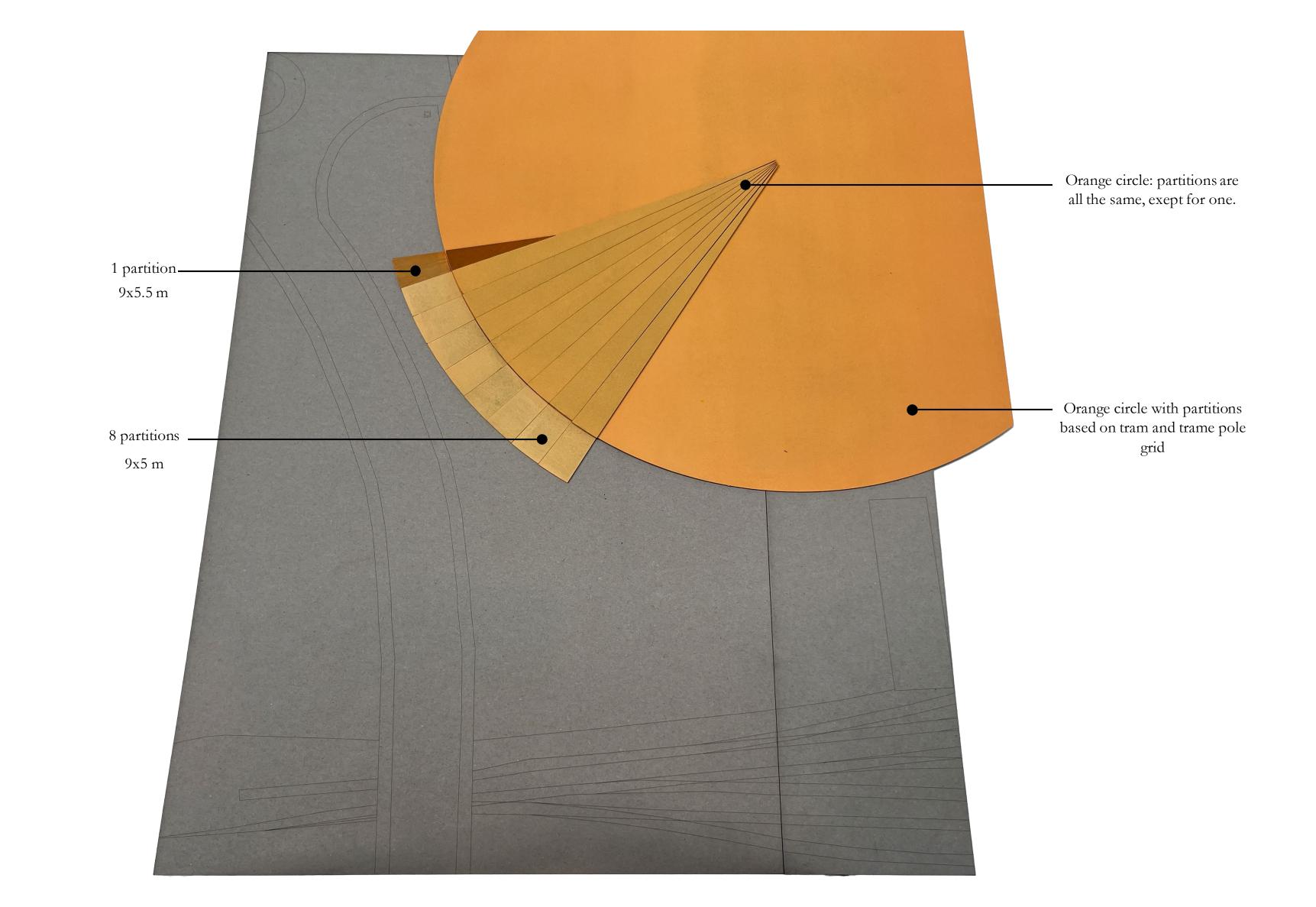
Creating architecture that harmonizes with the context (surroundings of the site), but to accomplish it needed to have the right proportions to relate to the site and select the minimum and maximum sizes of the grid.

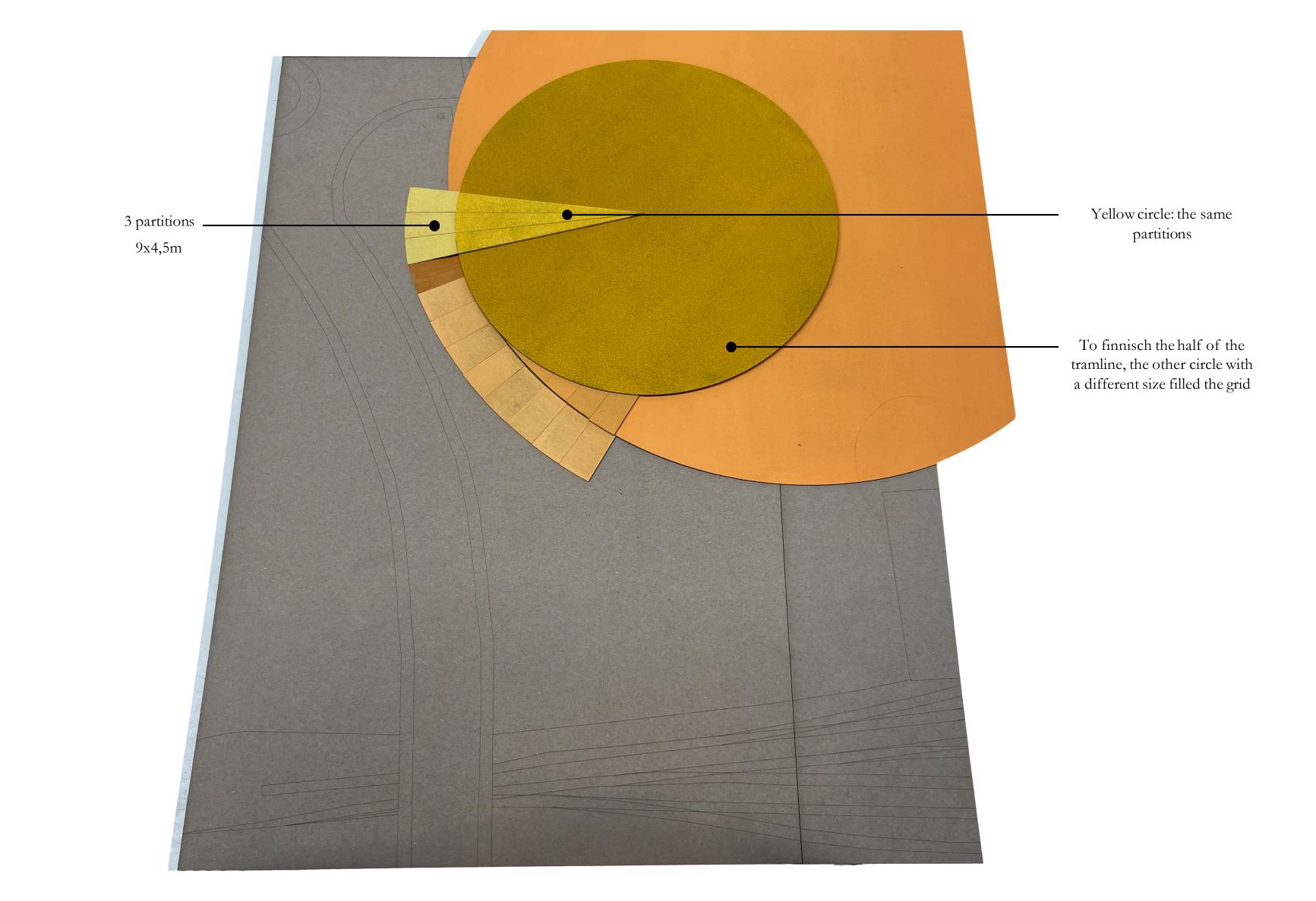
Going back to the sentence I started this presentation with:

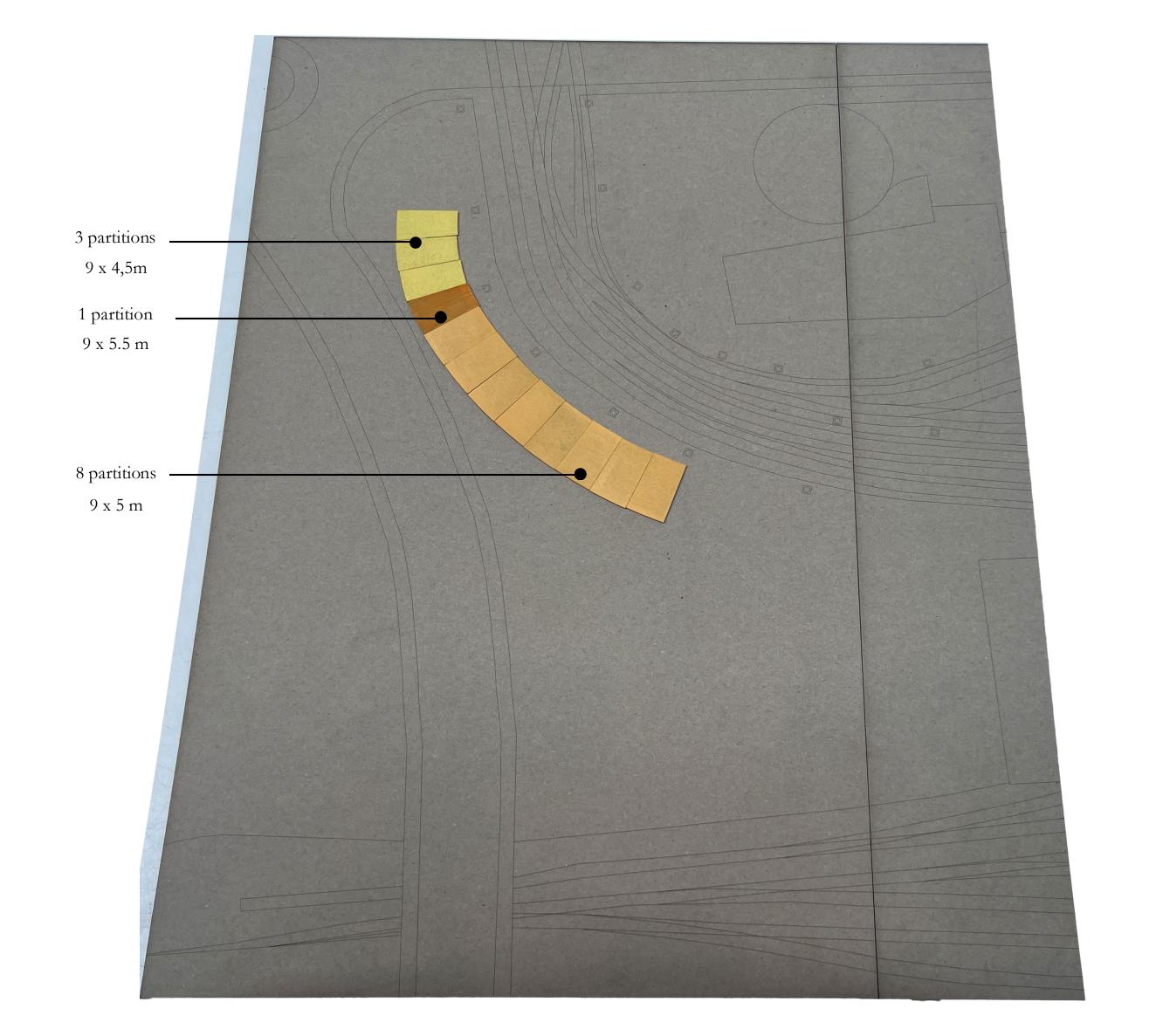
Architecture, art and literature are all forms that offen find a way to live on forever and inspire people.

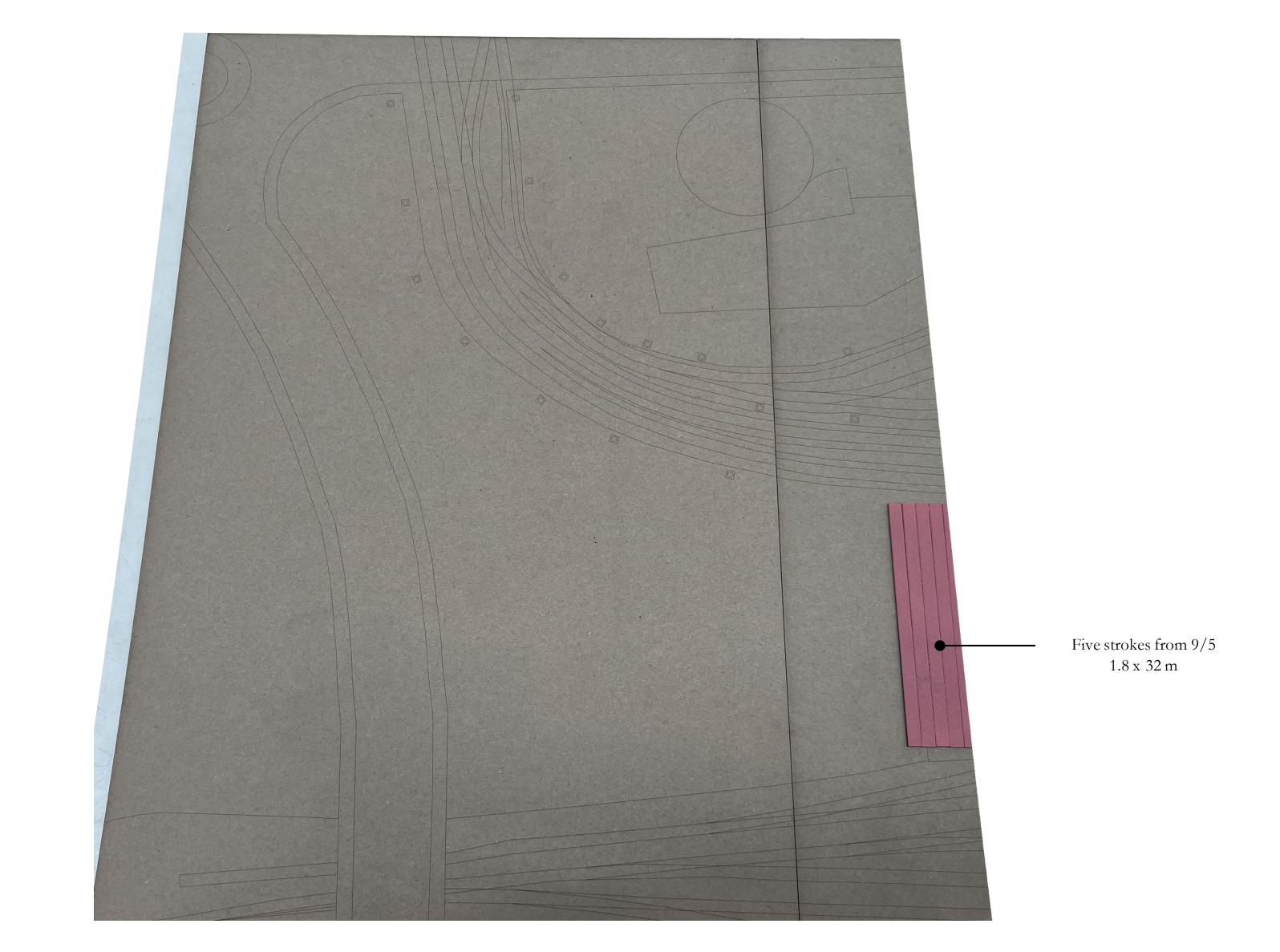
An other goal is to integrate the form of the building into the environment and let the form of the interior be shaped by the future user, and to not define the function on forhand.

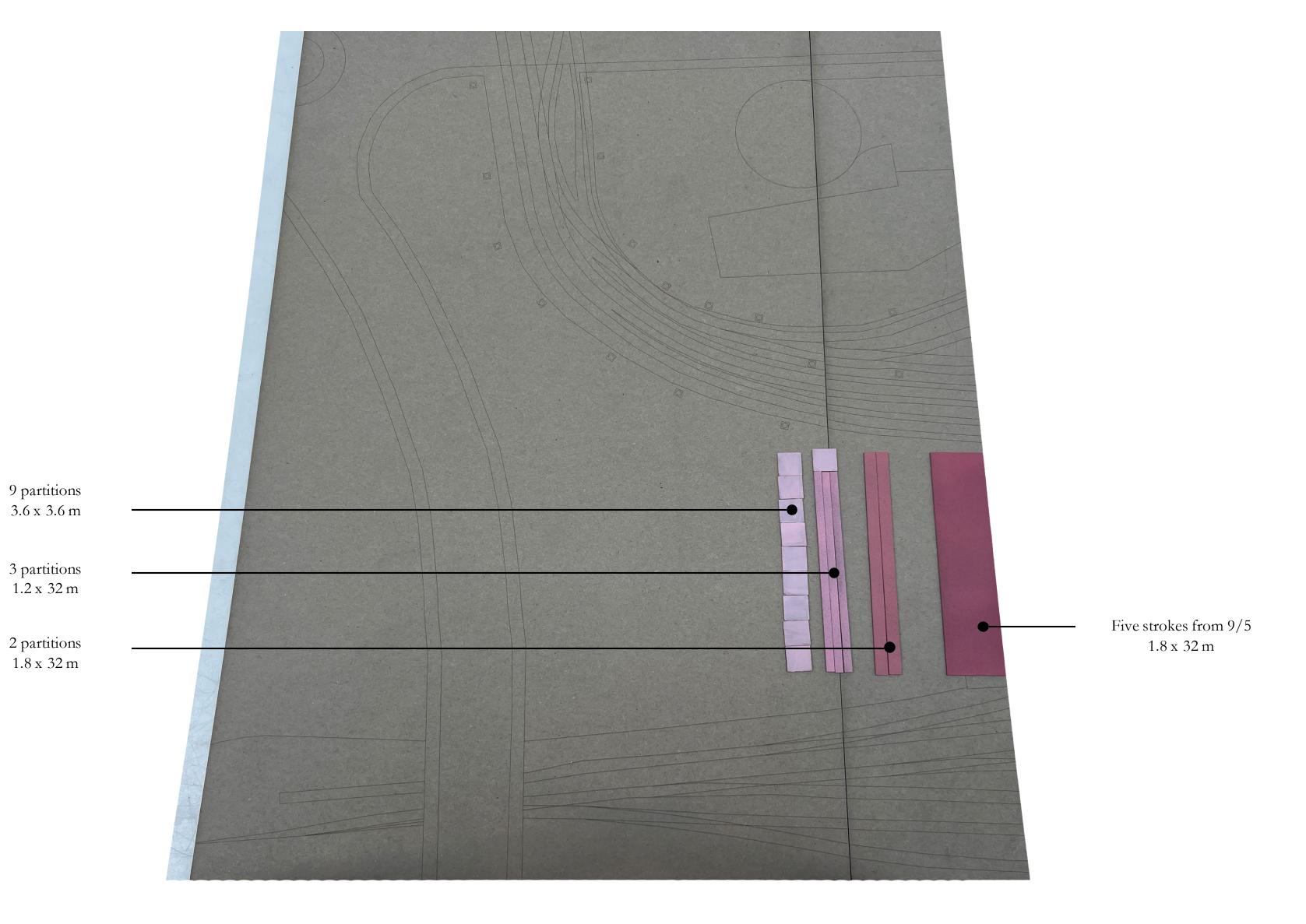


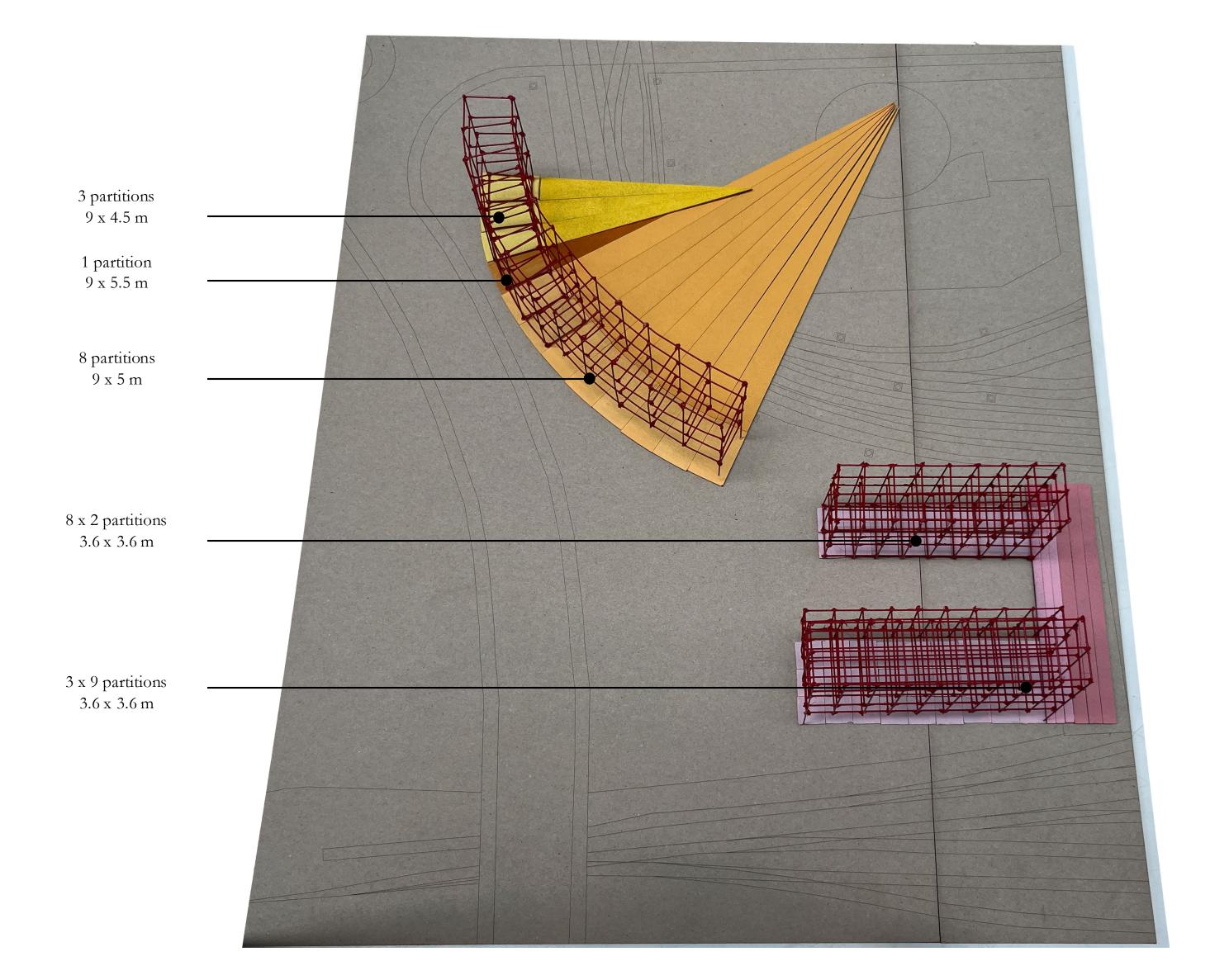


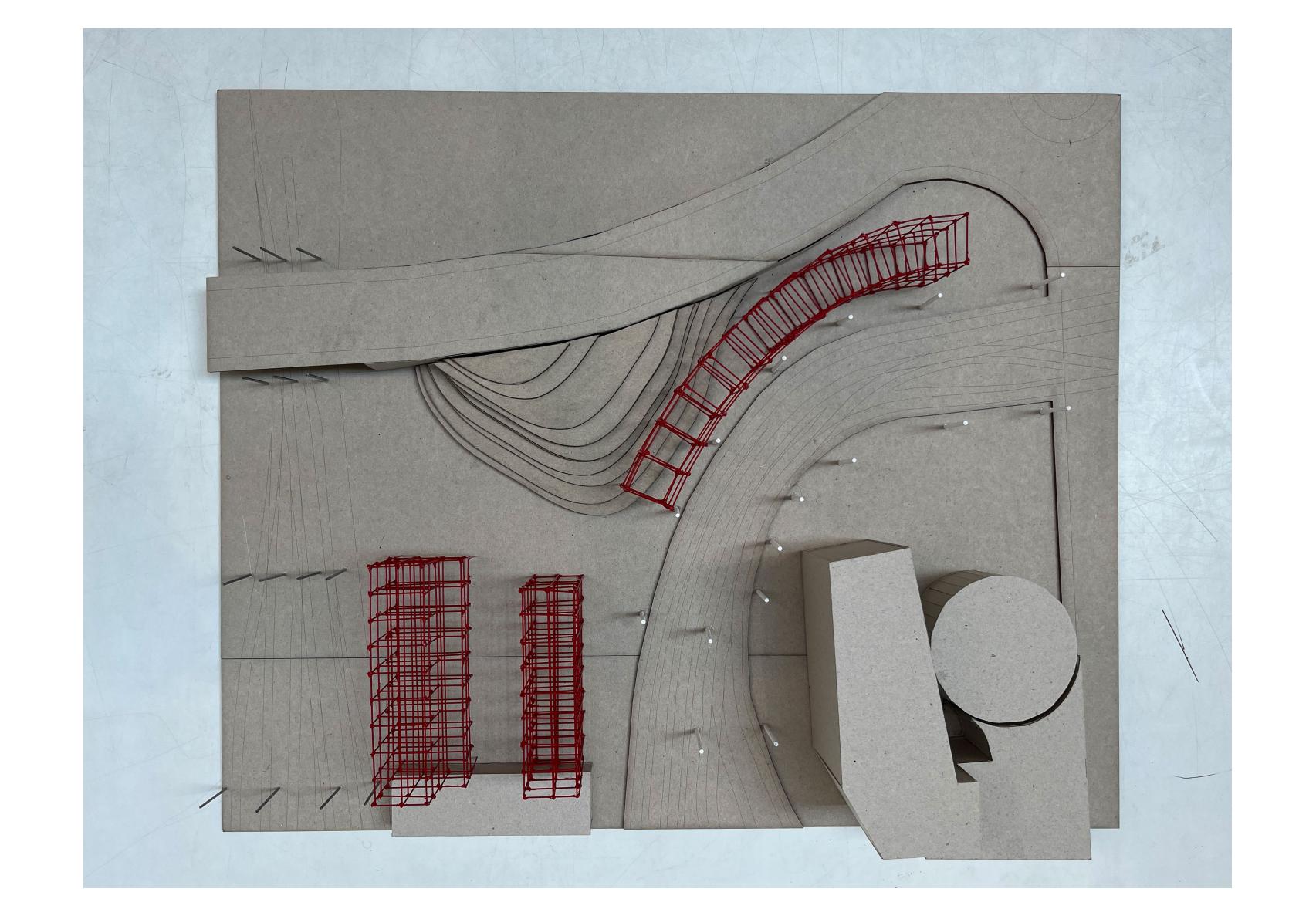


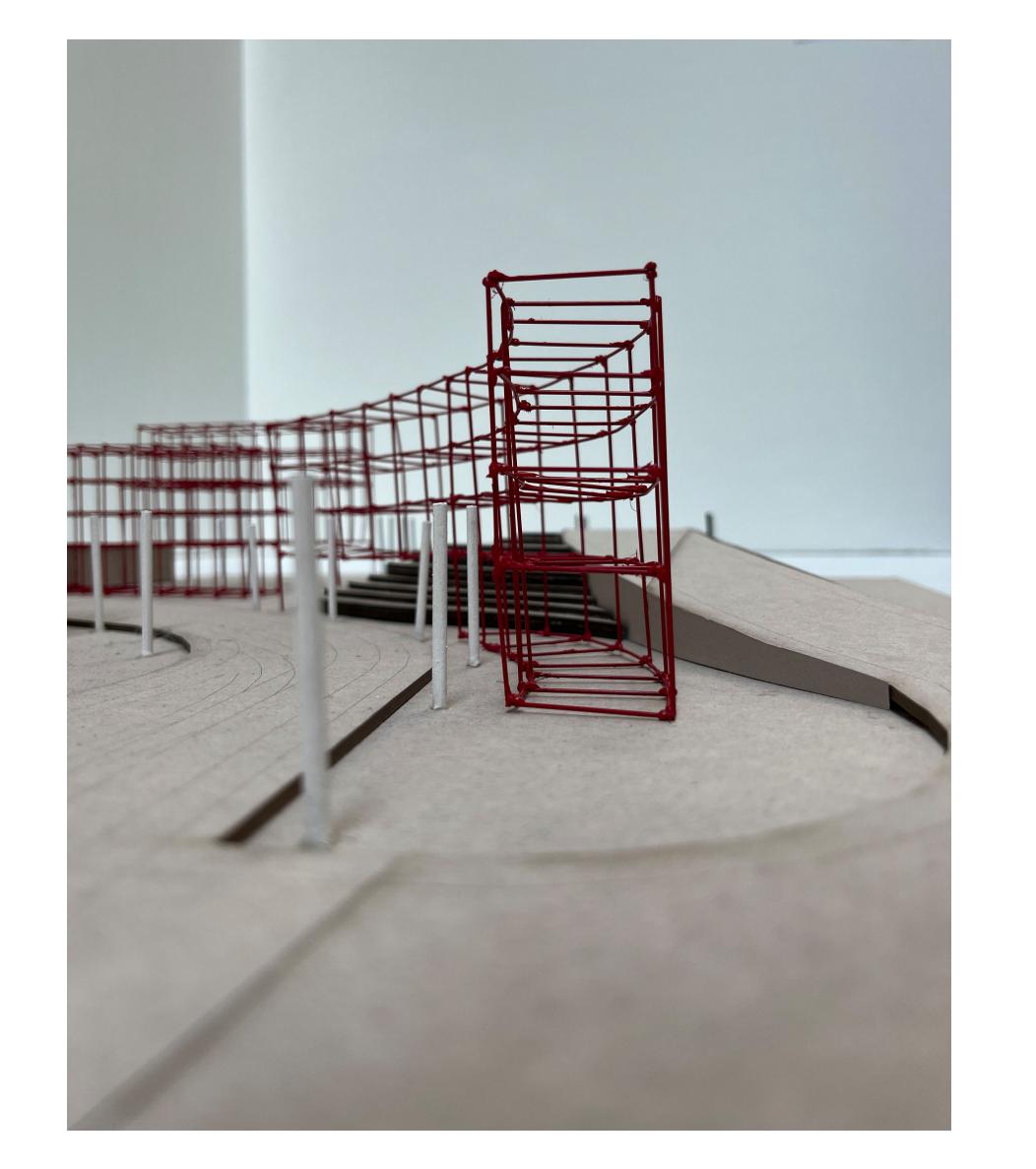


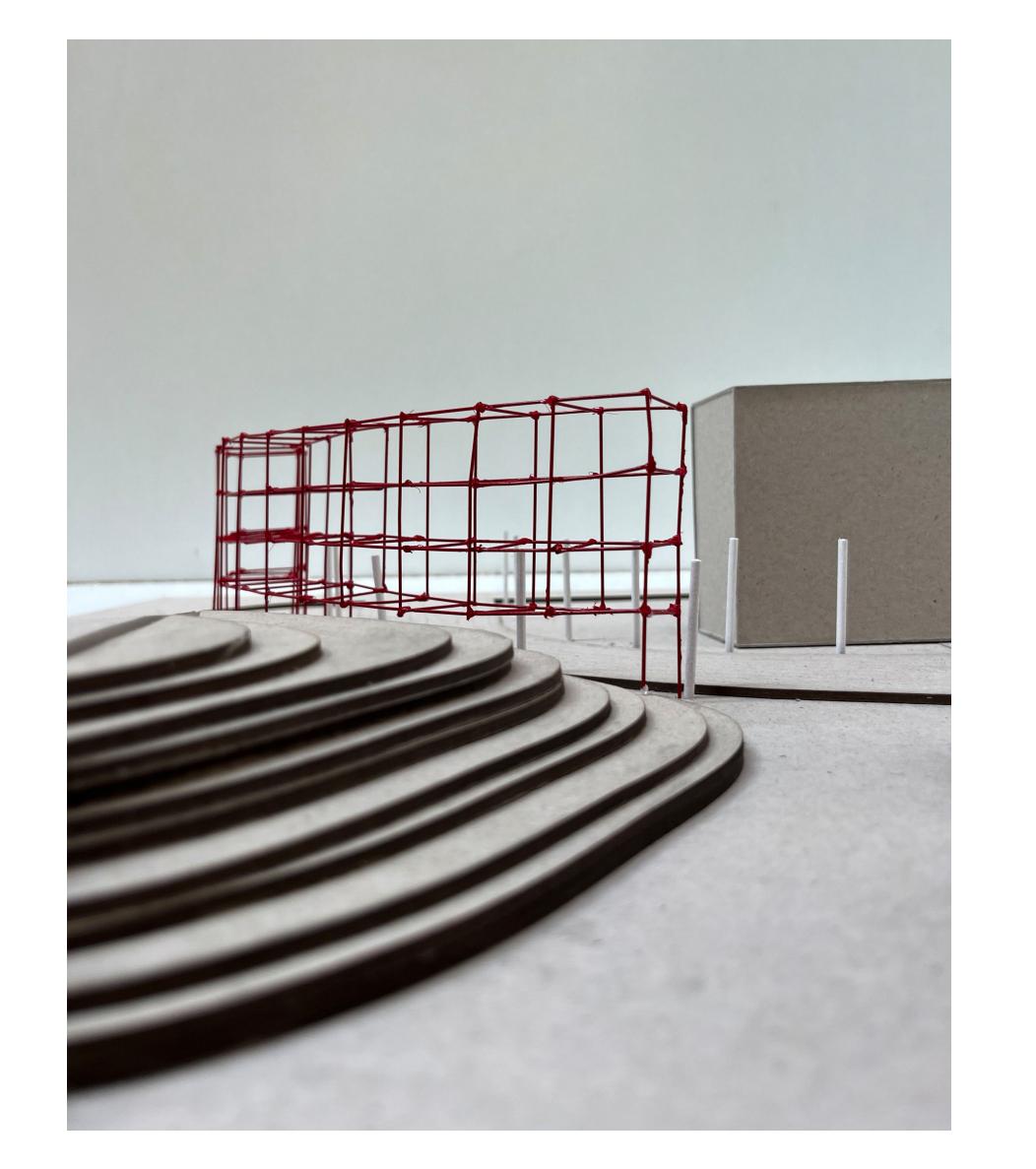




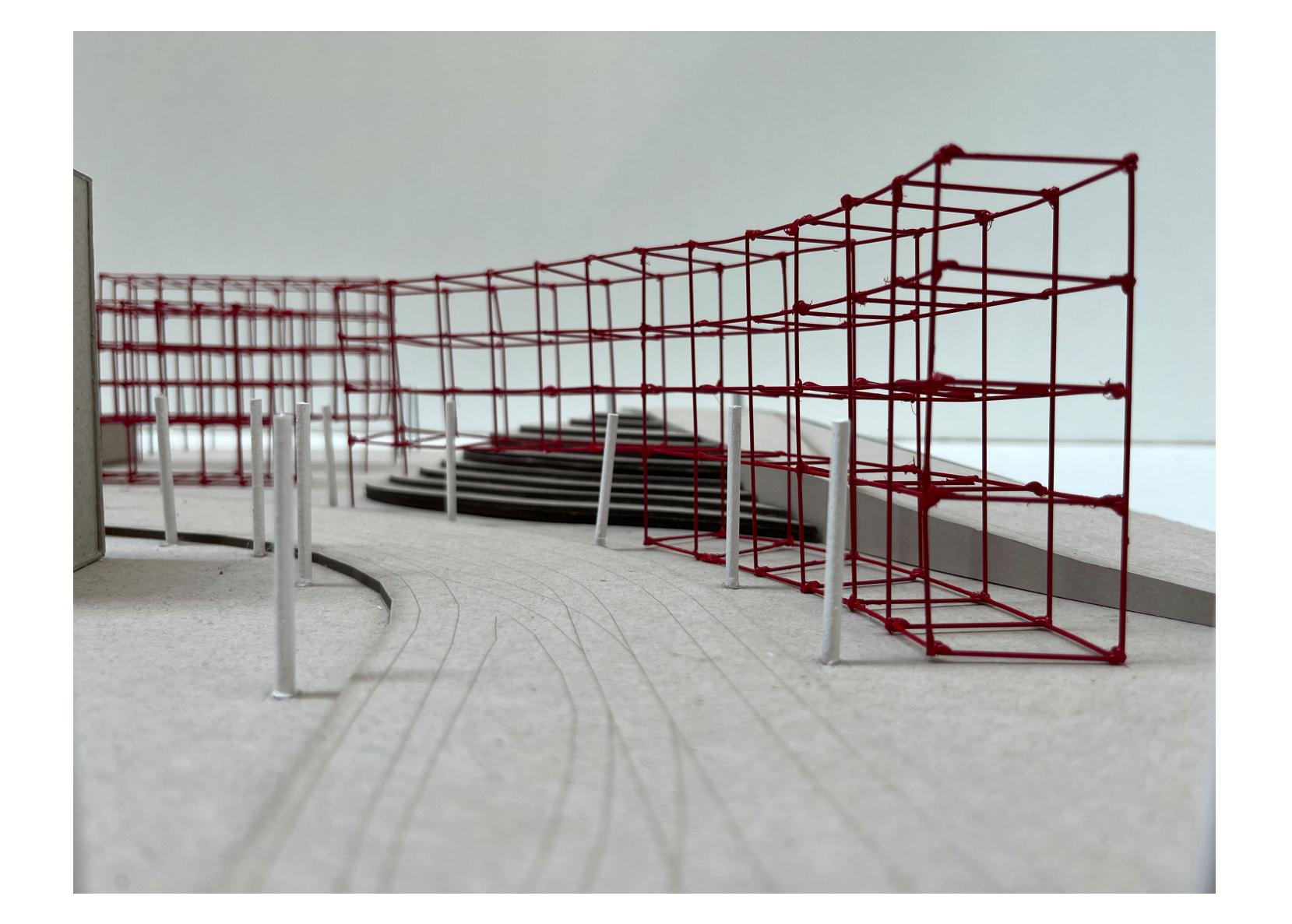


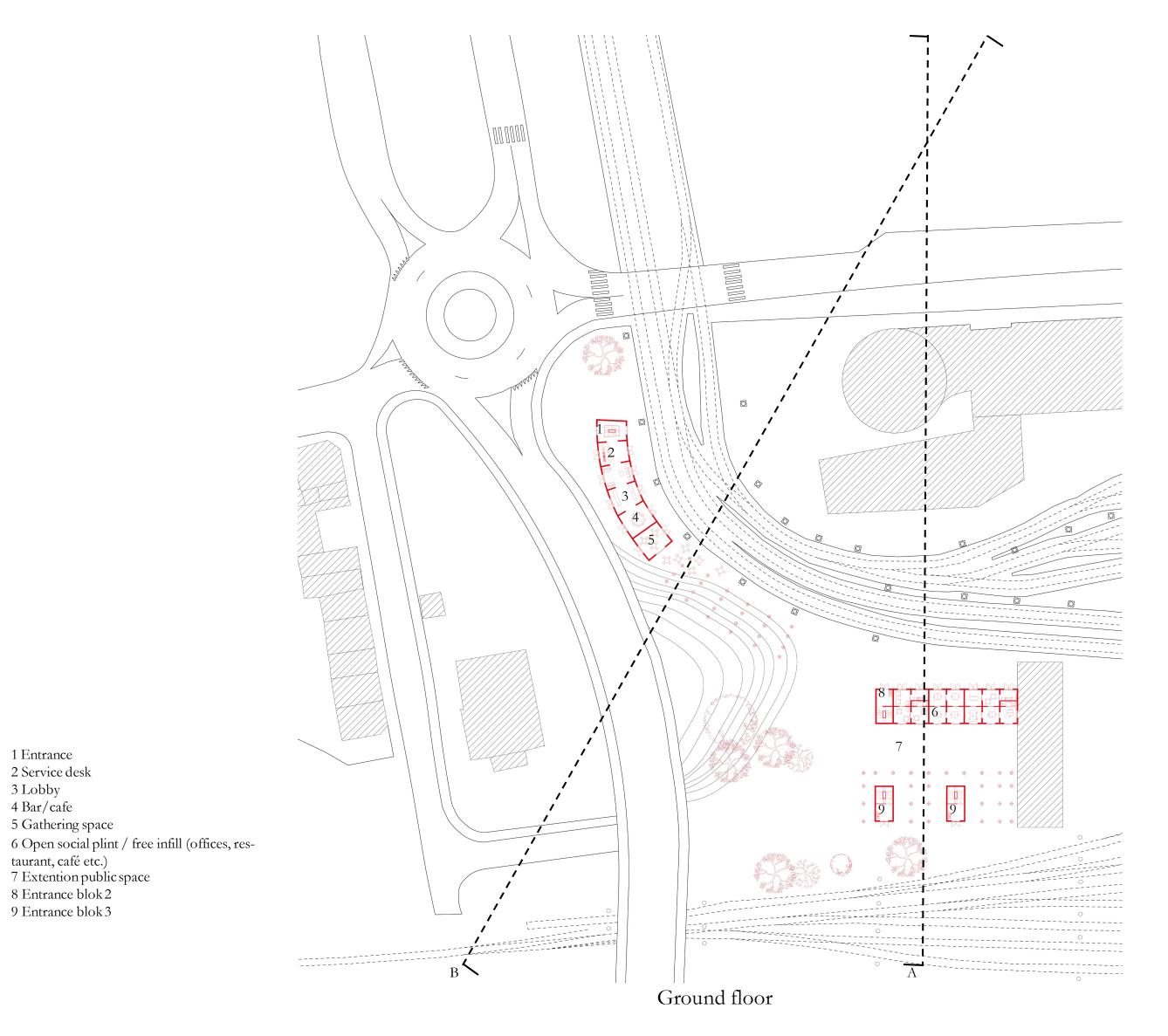










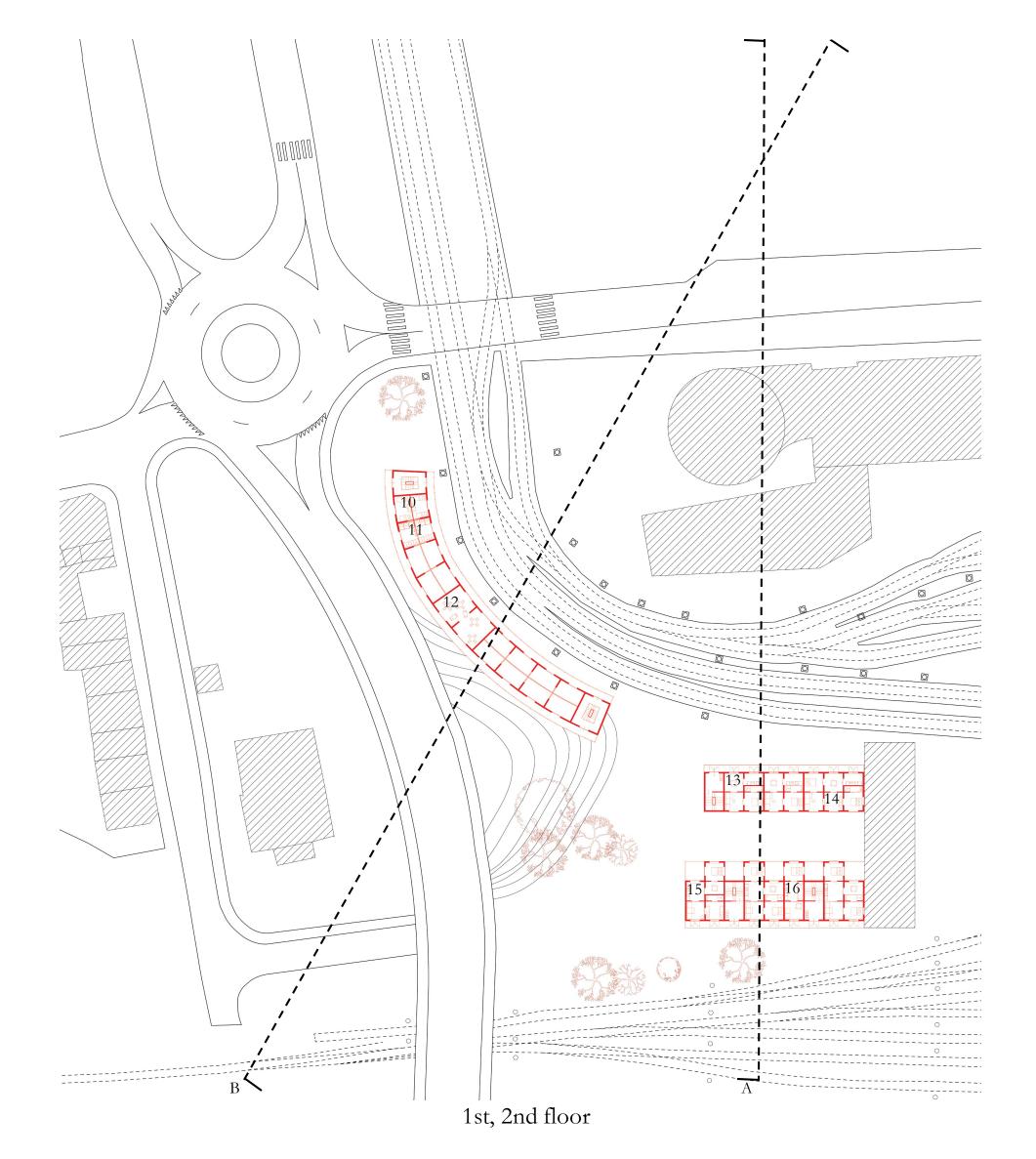


1 Entrance 2 Service desk

3 Lobby 4 Bar/cafe

5 Gathering space

9 Entrance blok 3

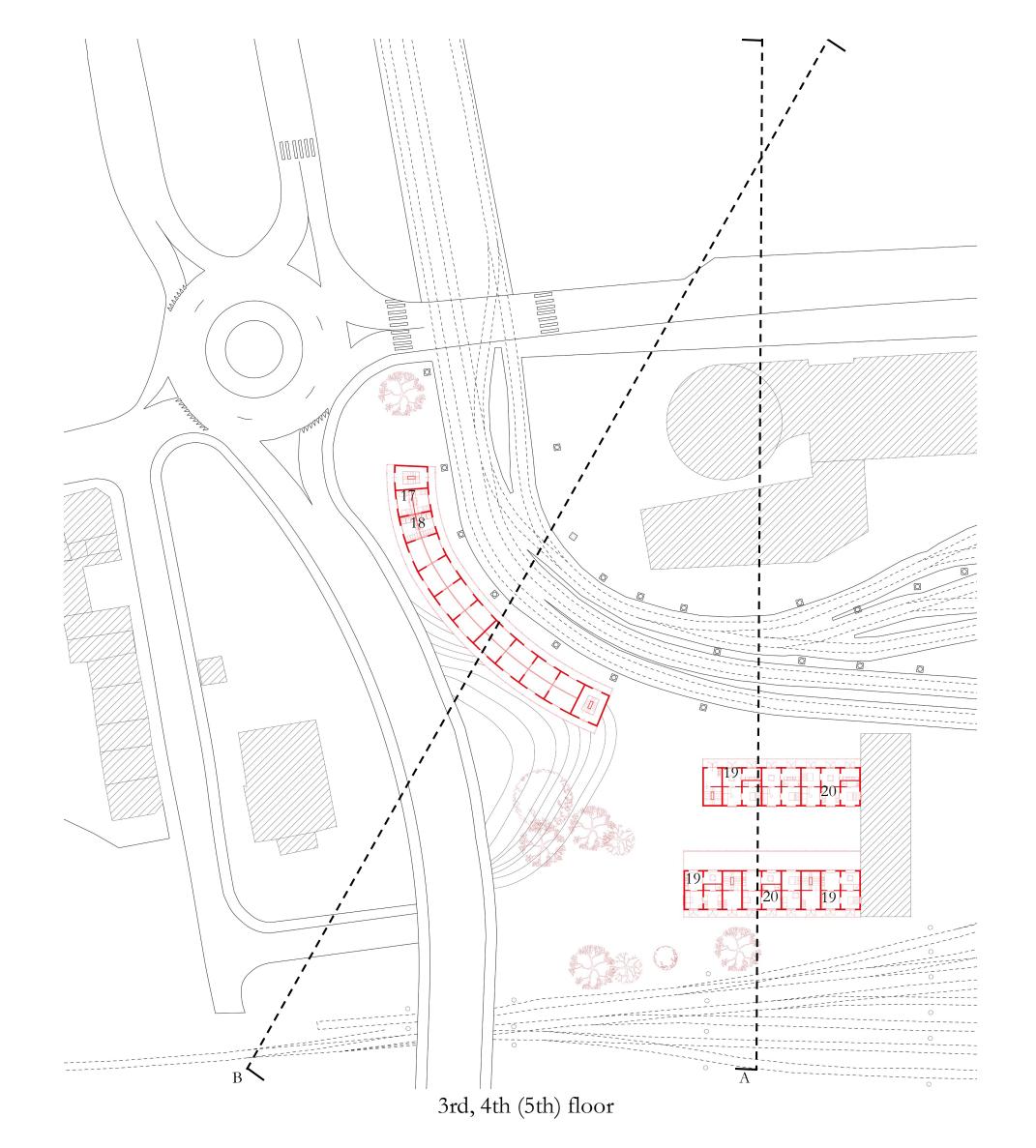


10 Hostel fill-in

11 Shared bathroom fill-in

12 Public room - common

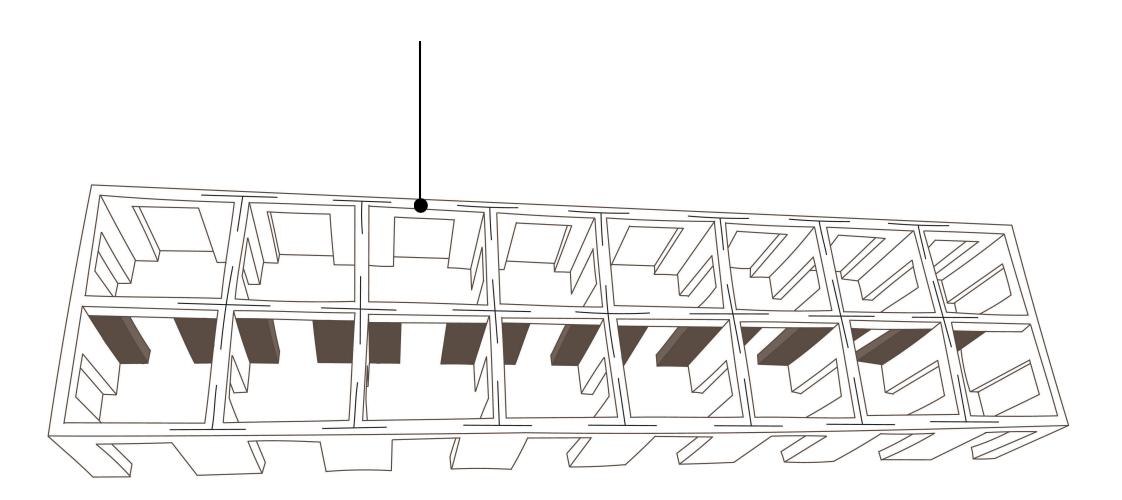
13 Apartment 52 m2 14 Apartment 78 m2 15 Apartment 65 m2 16 Apartment 39 m2

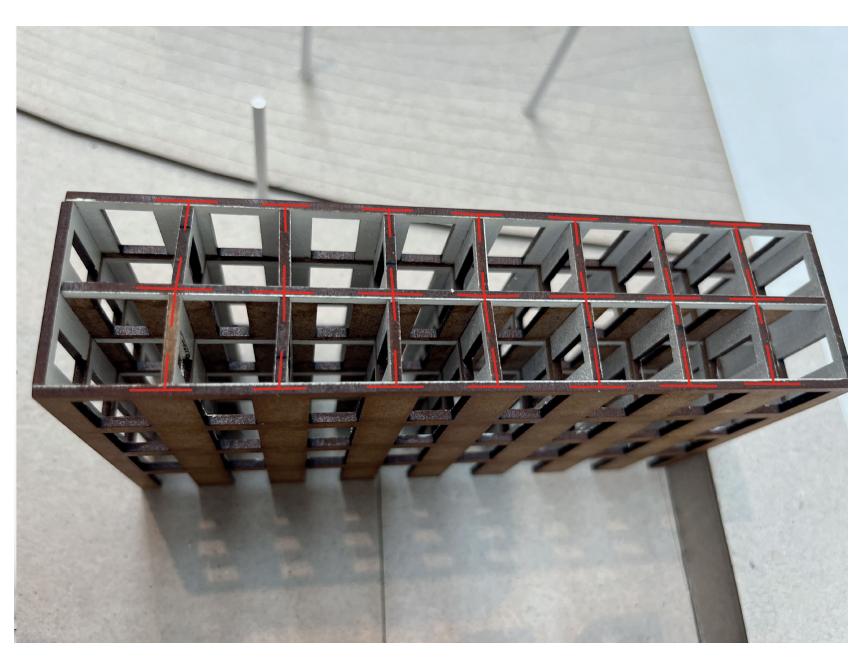


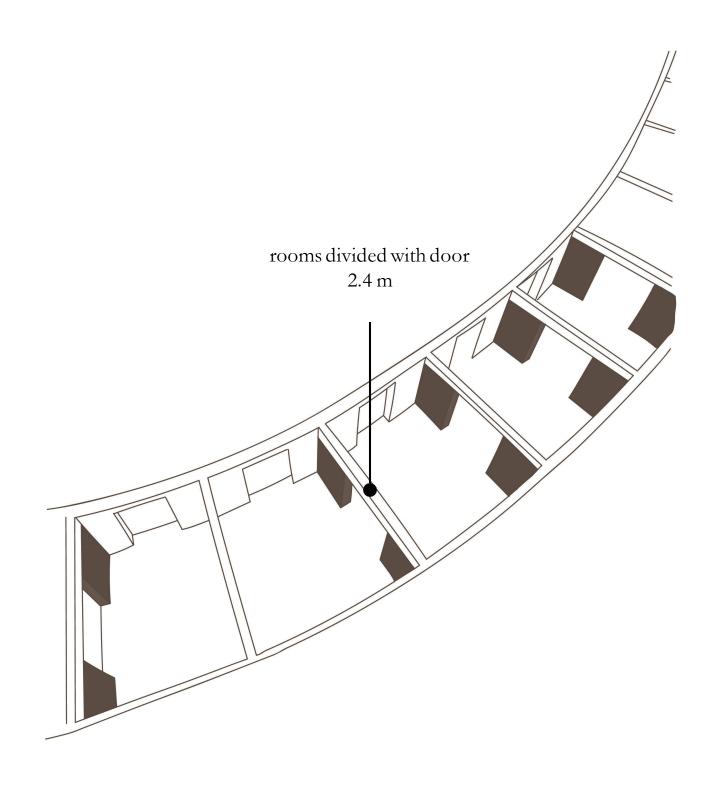
17 Hostel fill-in 18 Shared bathroom fill-in 19 Apartment 52 m2 20 Apartment 78 m2 21 Apartment 18 m2

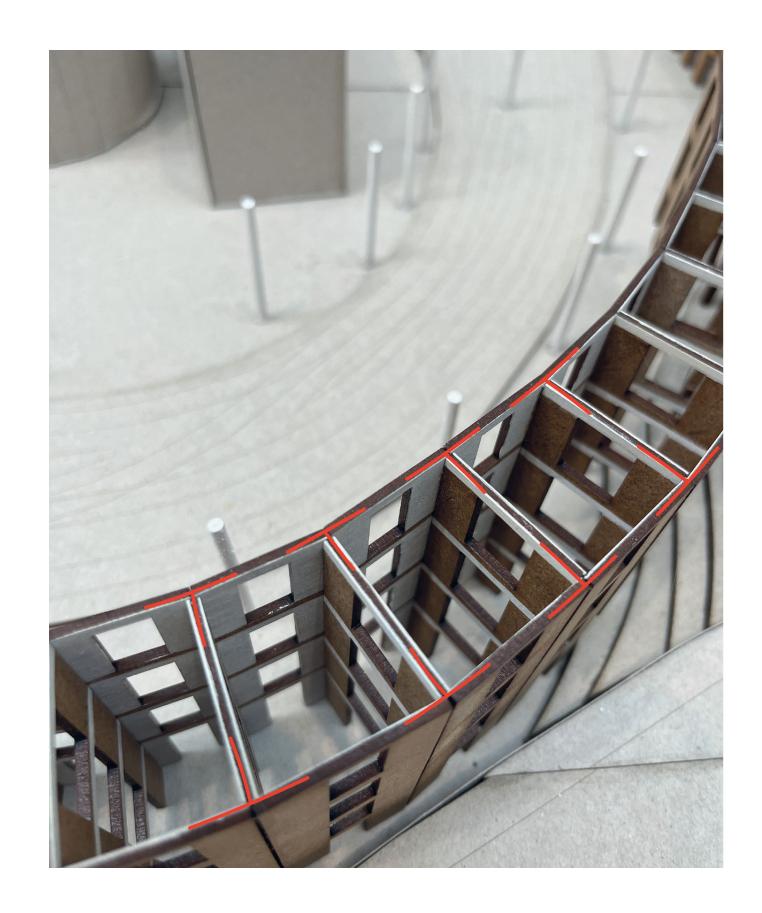
9 partitions 3.6 x 3.6 m

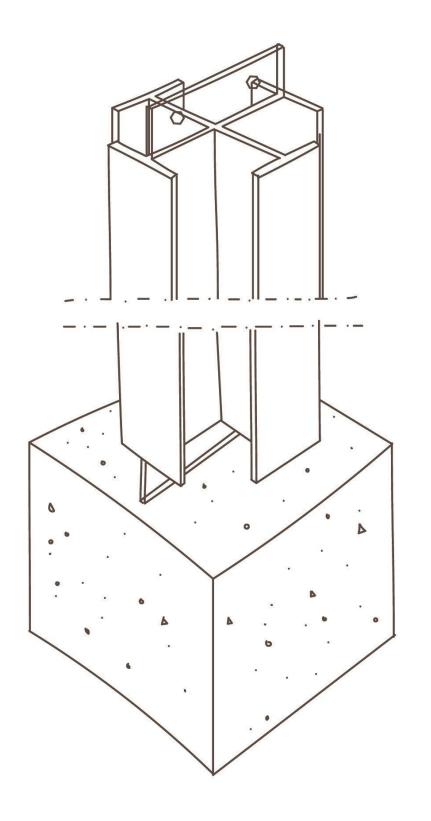
rooms divided with door 1.2m











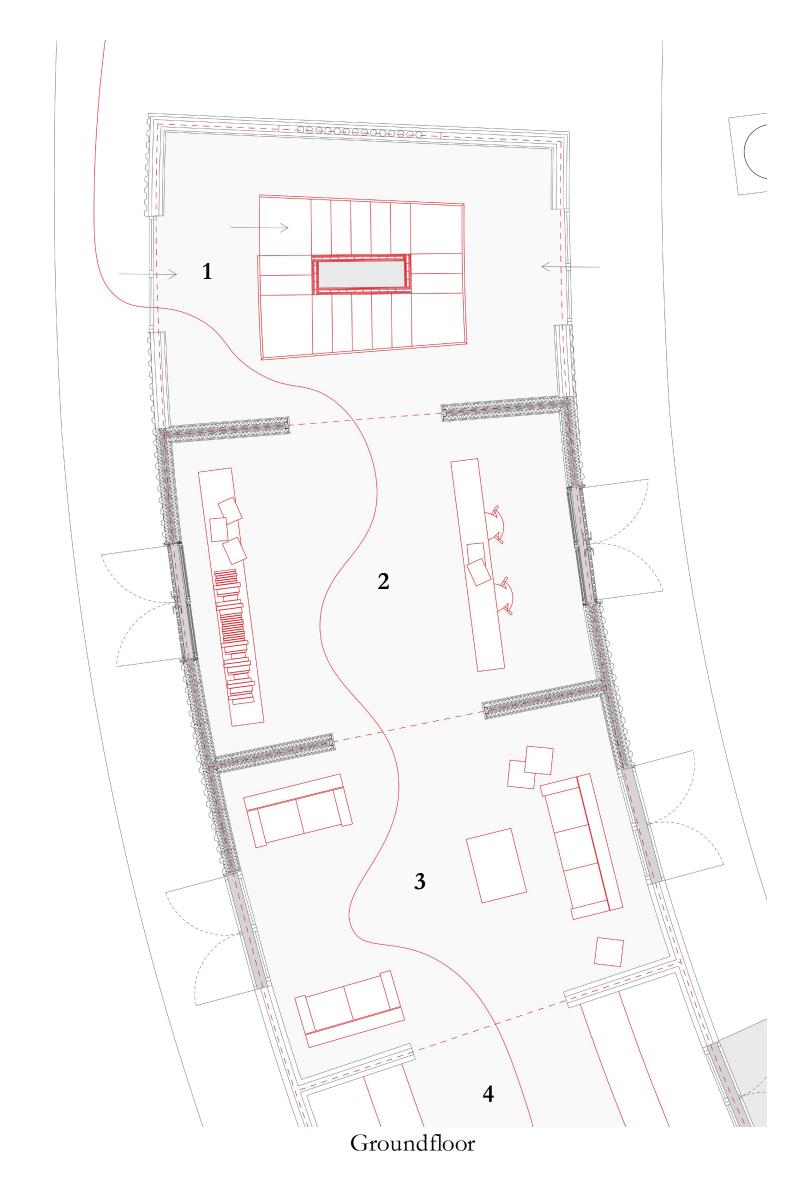
Load bearing CLT walls 100 mm

CLT floors 3,6 x 3,6 150 mm

Steel columns 400 mm

Concrete foundation

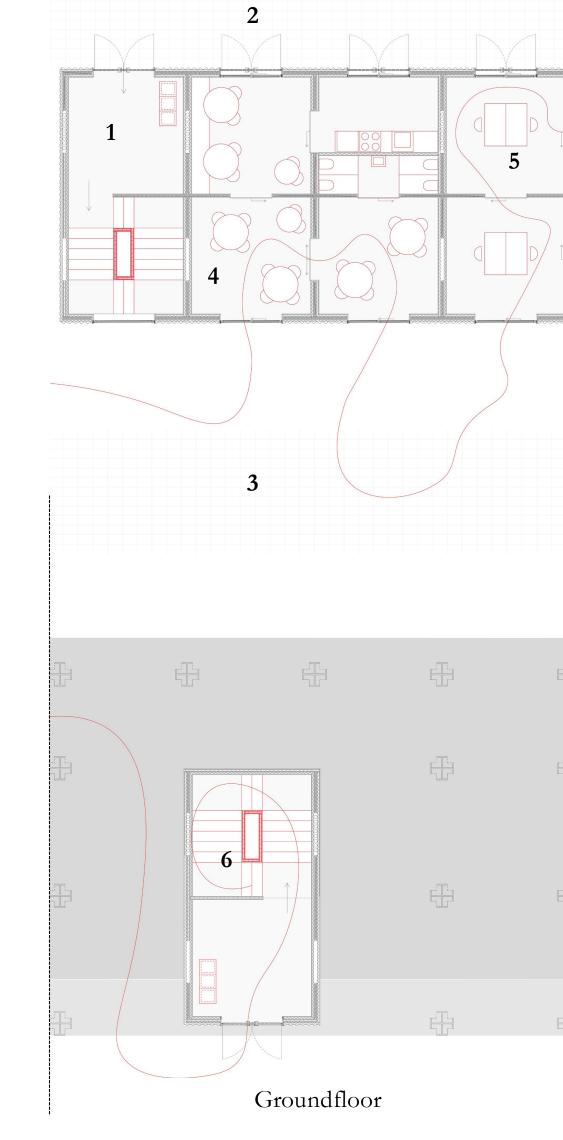




1 Entrance - stairway 2 Service desk 3 Lobby 4 Bar



1 Entrance - stairway 2 Gallary - entrances partitions 3 Hotel/hostal room 4 Shared bathroom



1 Entrance - stairway

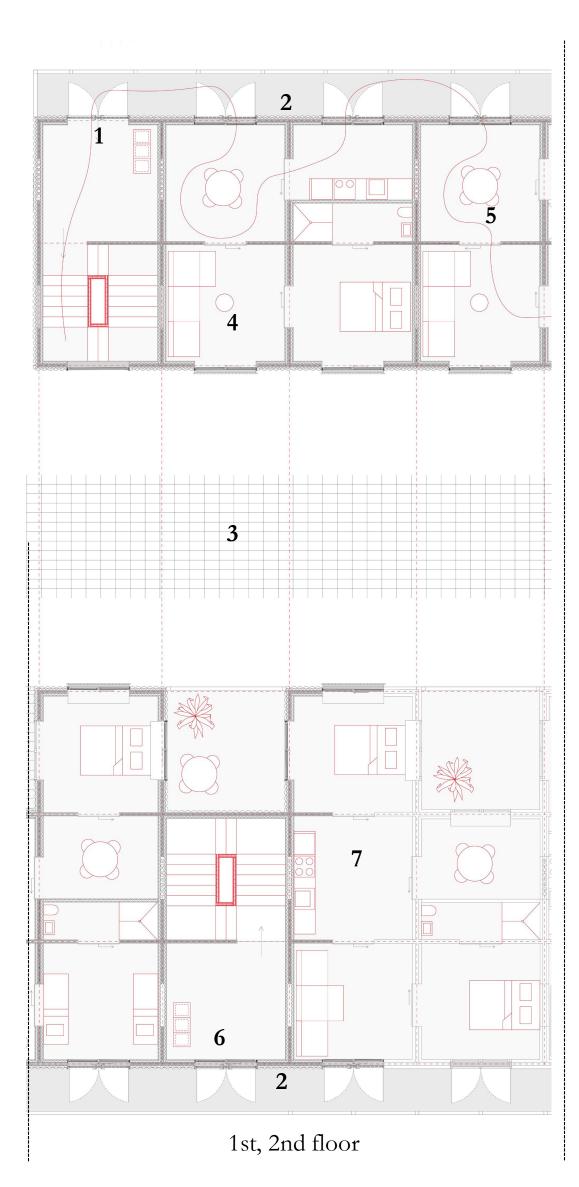
2 Gallary - entrances partitions

3 Inner courtyard - open plinth 4 Cafe/restaurant 5 Work hub

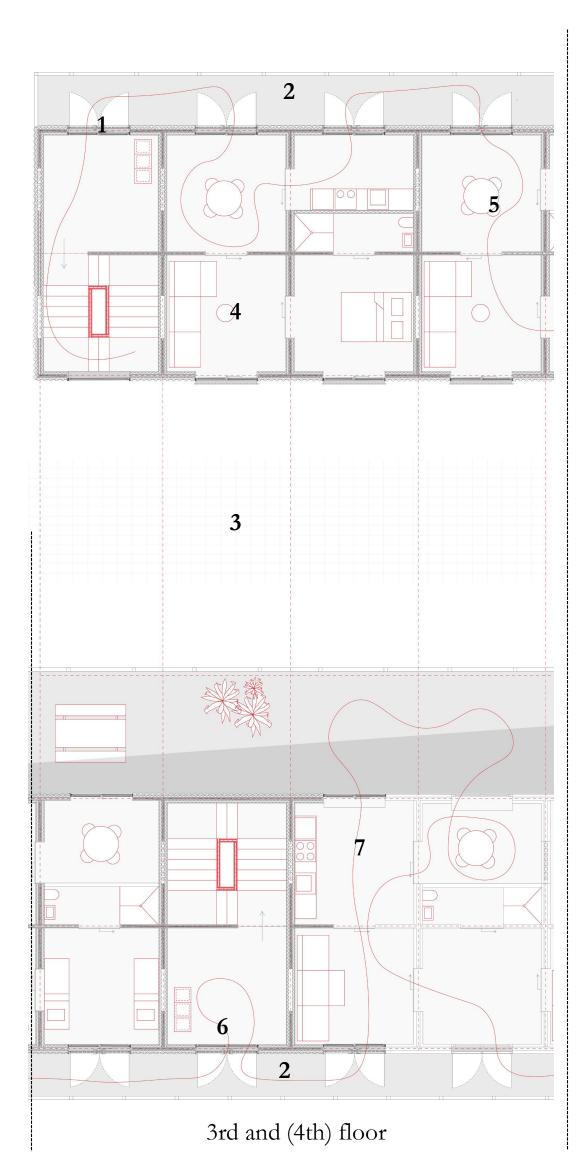
6 Entrance blok 3 - stairway

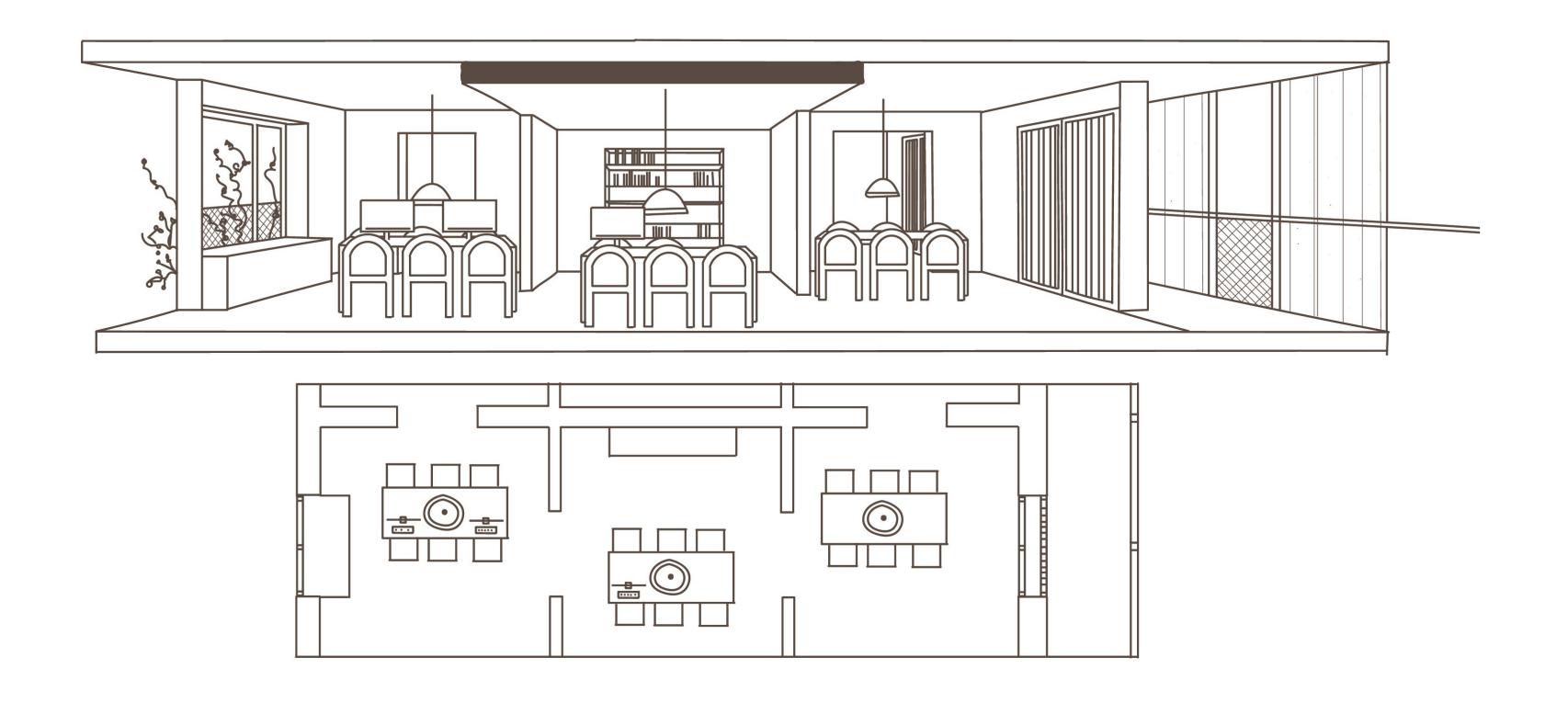
- 1 Entrance stairway
- 2 Gallary entrances partitions
  3 Inner courtyard open plinth
  4 Appartment 52 m2
  5 Student appartment 77m2

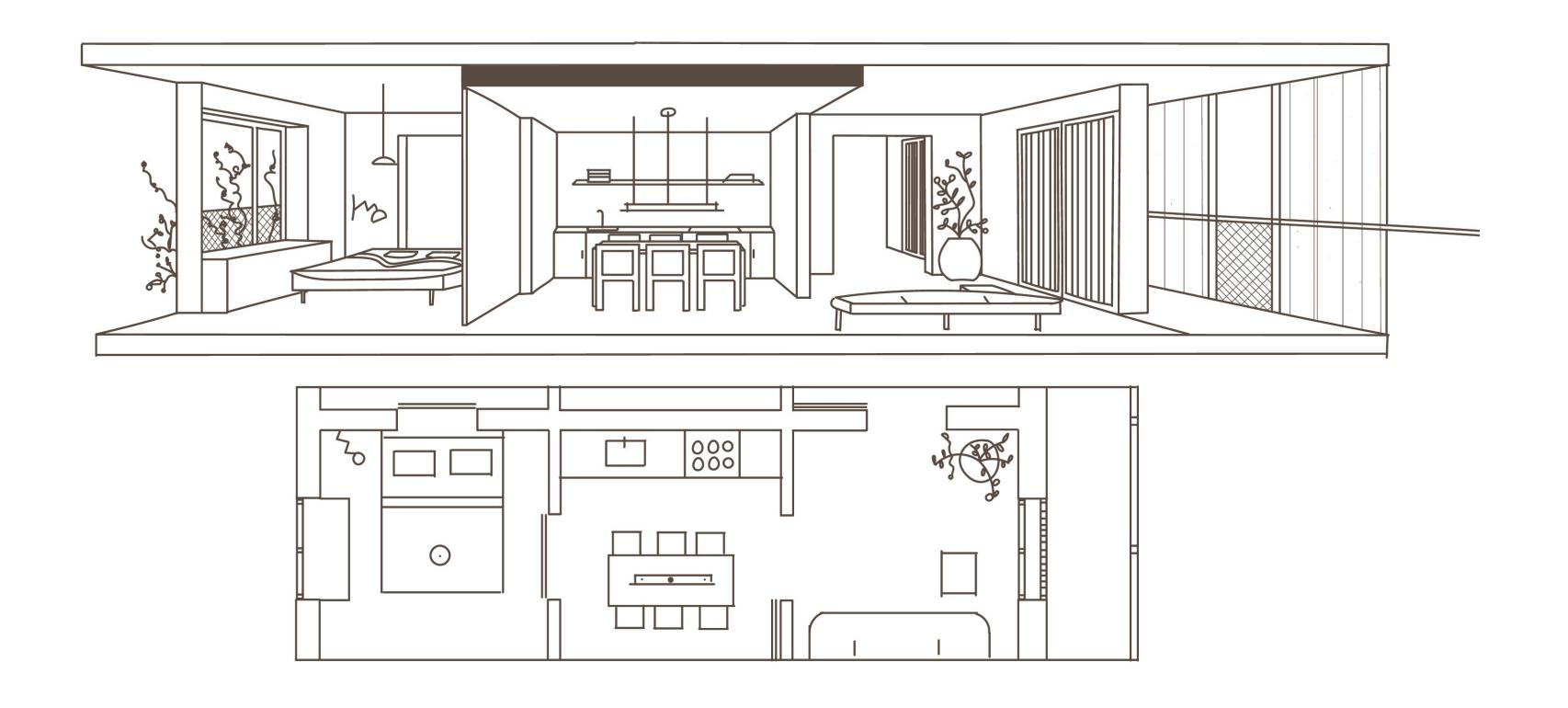
- 6 Entrance blok 3 stairway
  7 Appartment 65 m2 with inner balcony

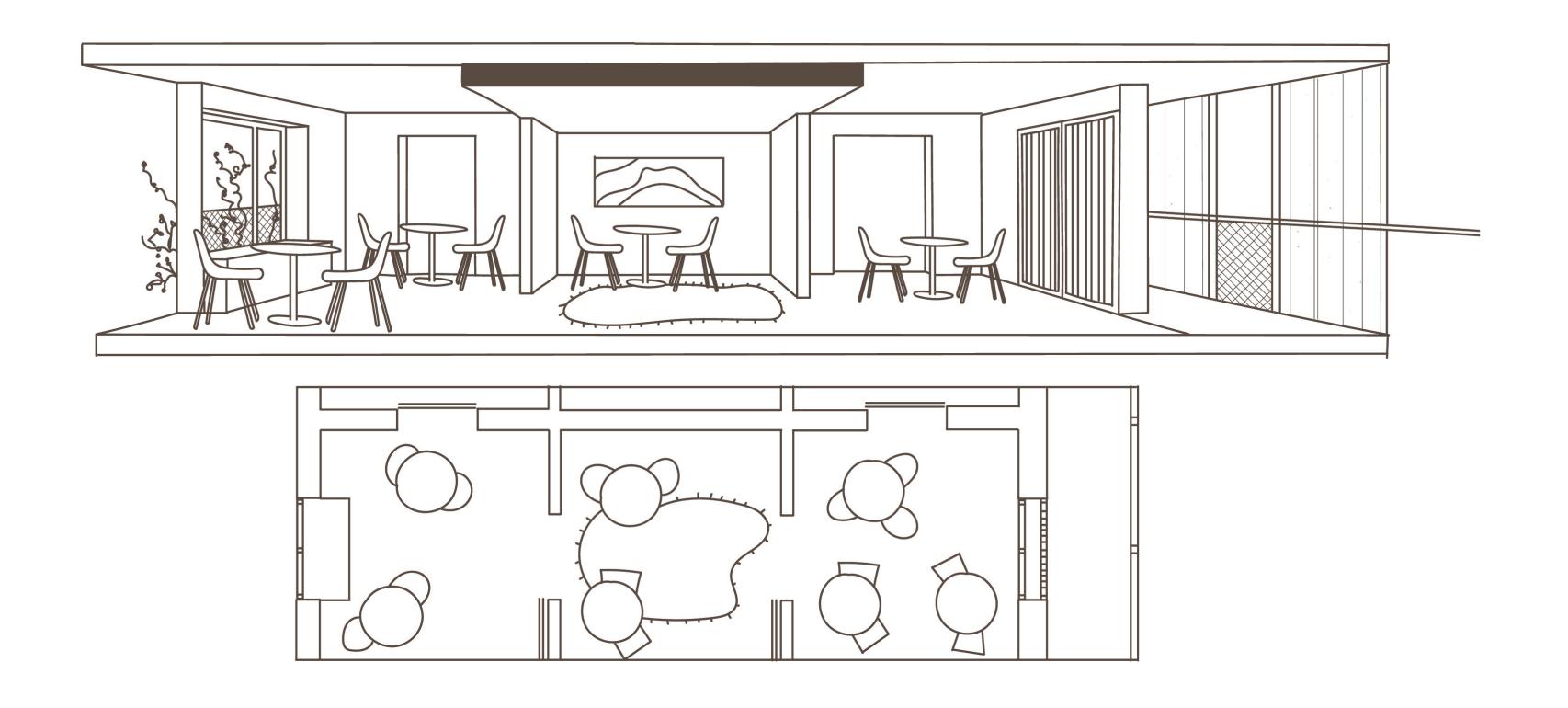


- 1 Entrance stairway
  2 Gallary entrances partitions
  3 Inner courtyard open plinth
  4 Appartment 52 m2
  5 Student appartment 77m2
  6 Entrance blok 3 stairway
  7 Appartment 78 m2 with shared terras







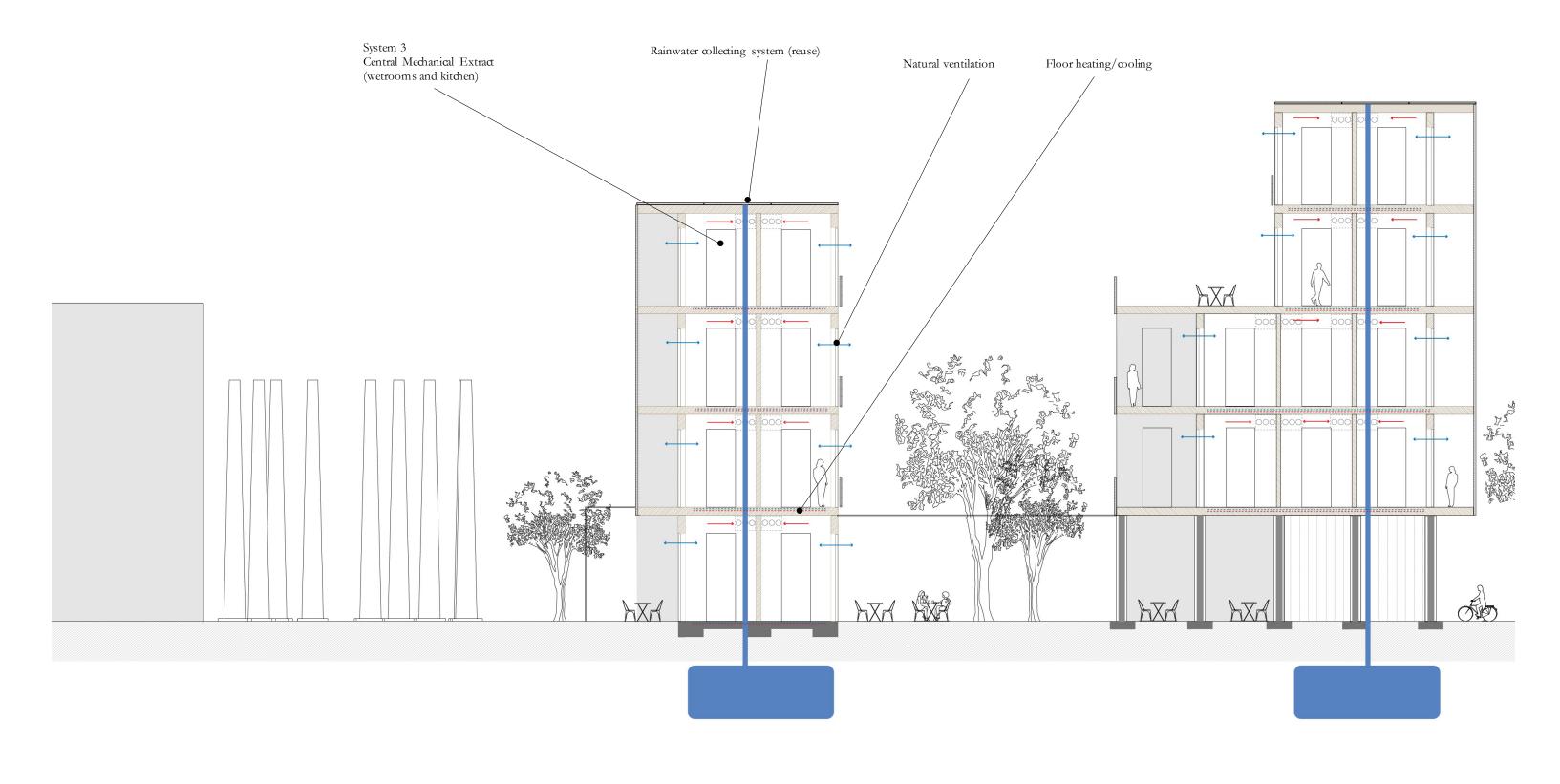


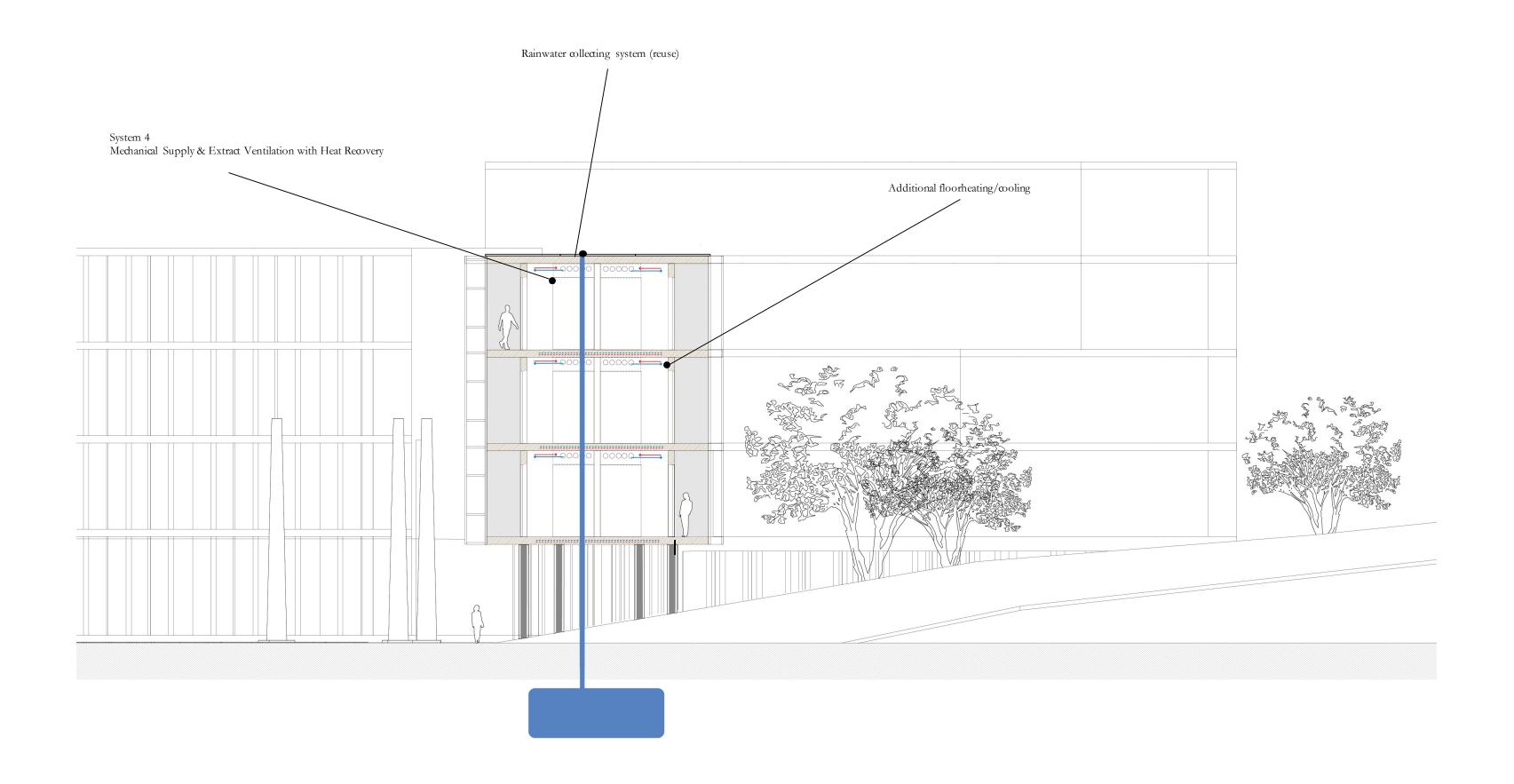


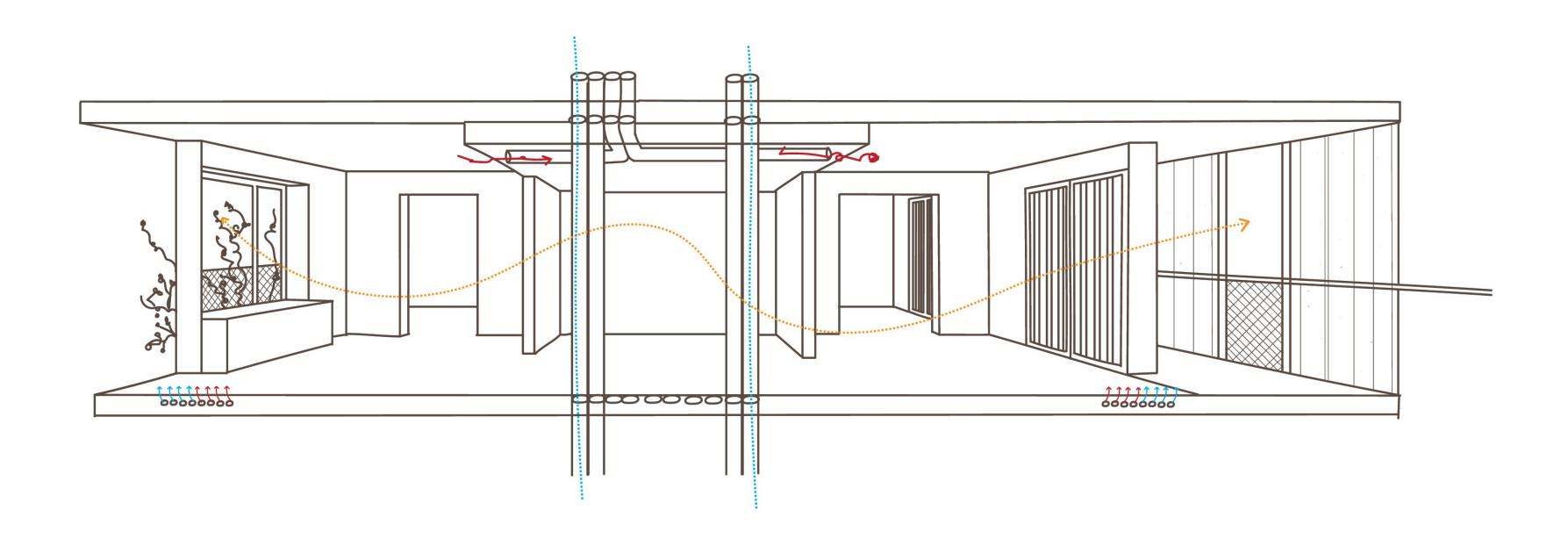


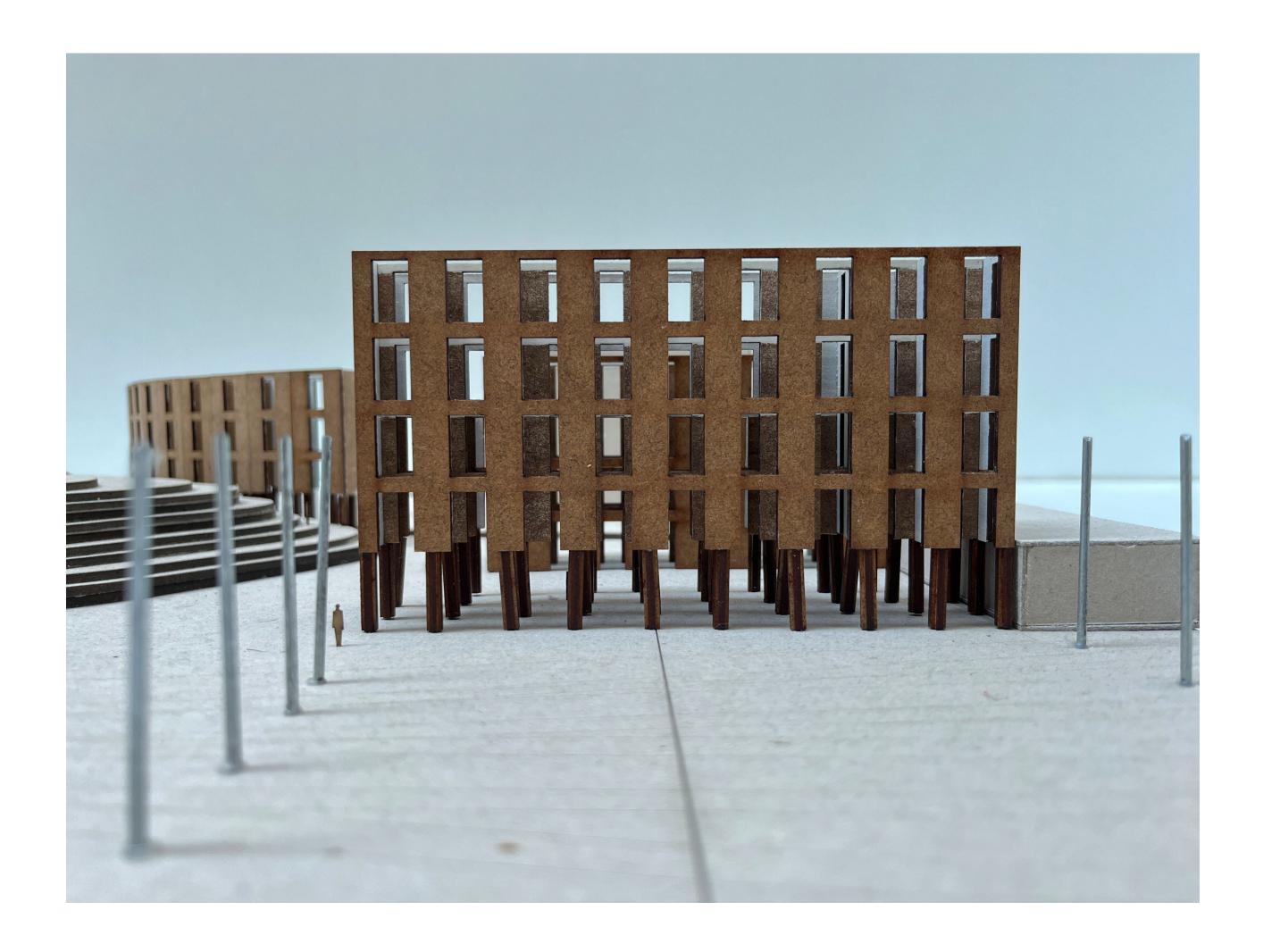




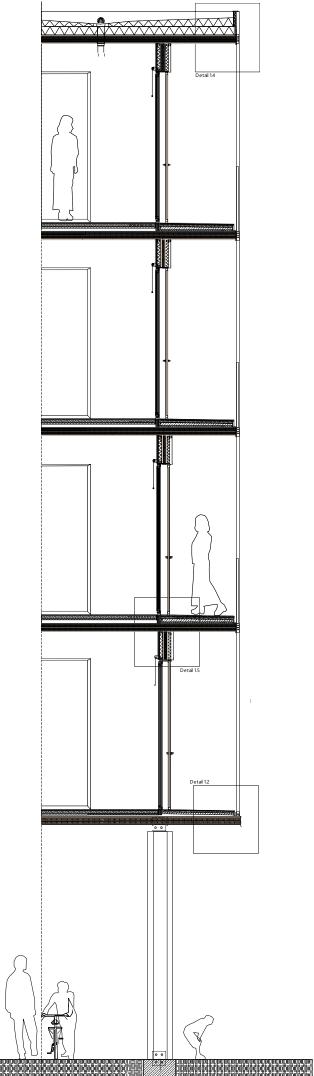


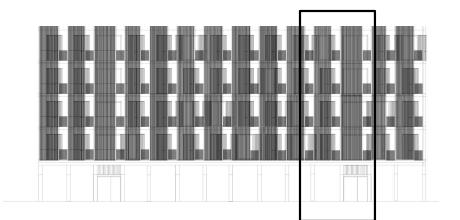






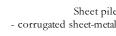




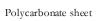


Wooden slats

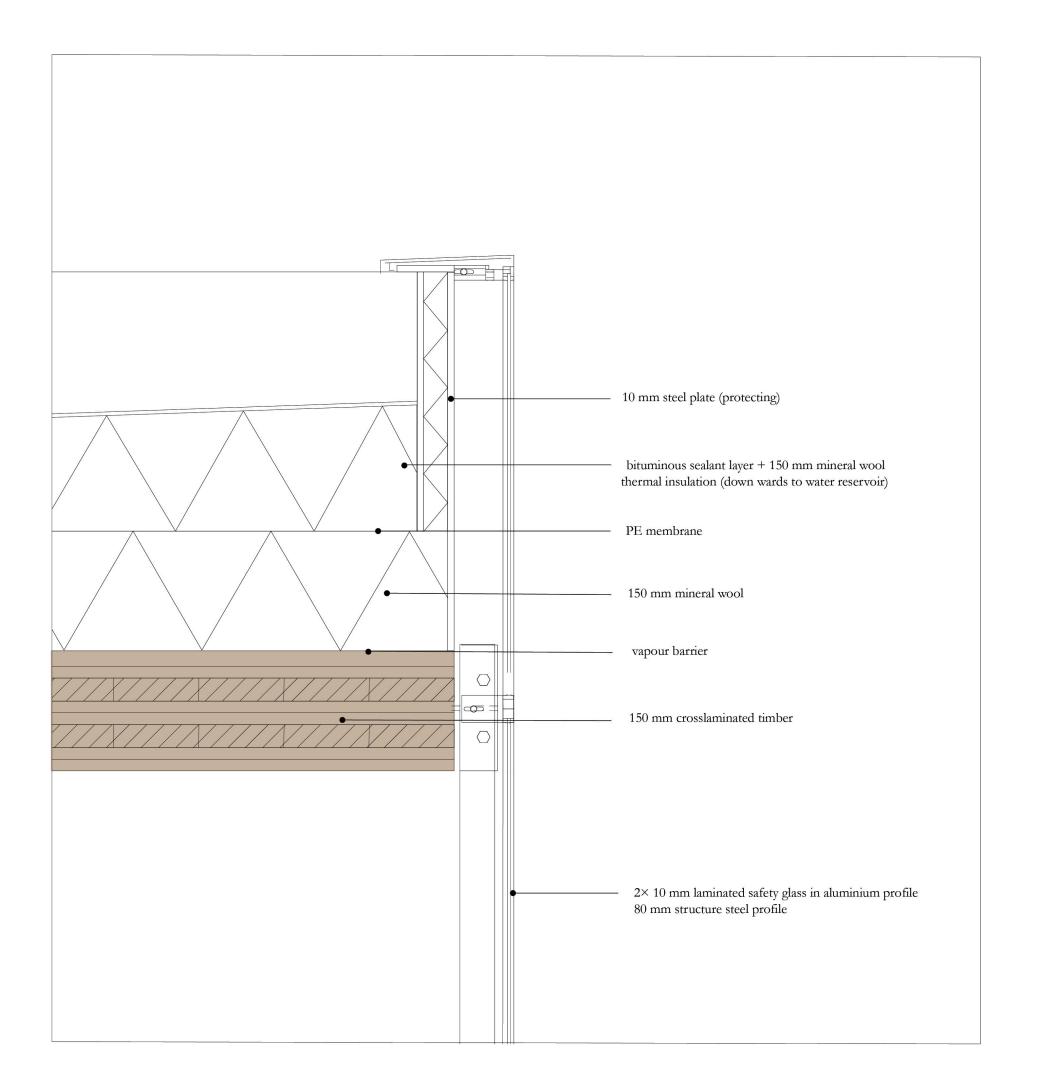






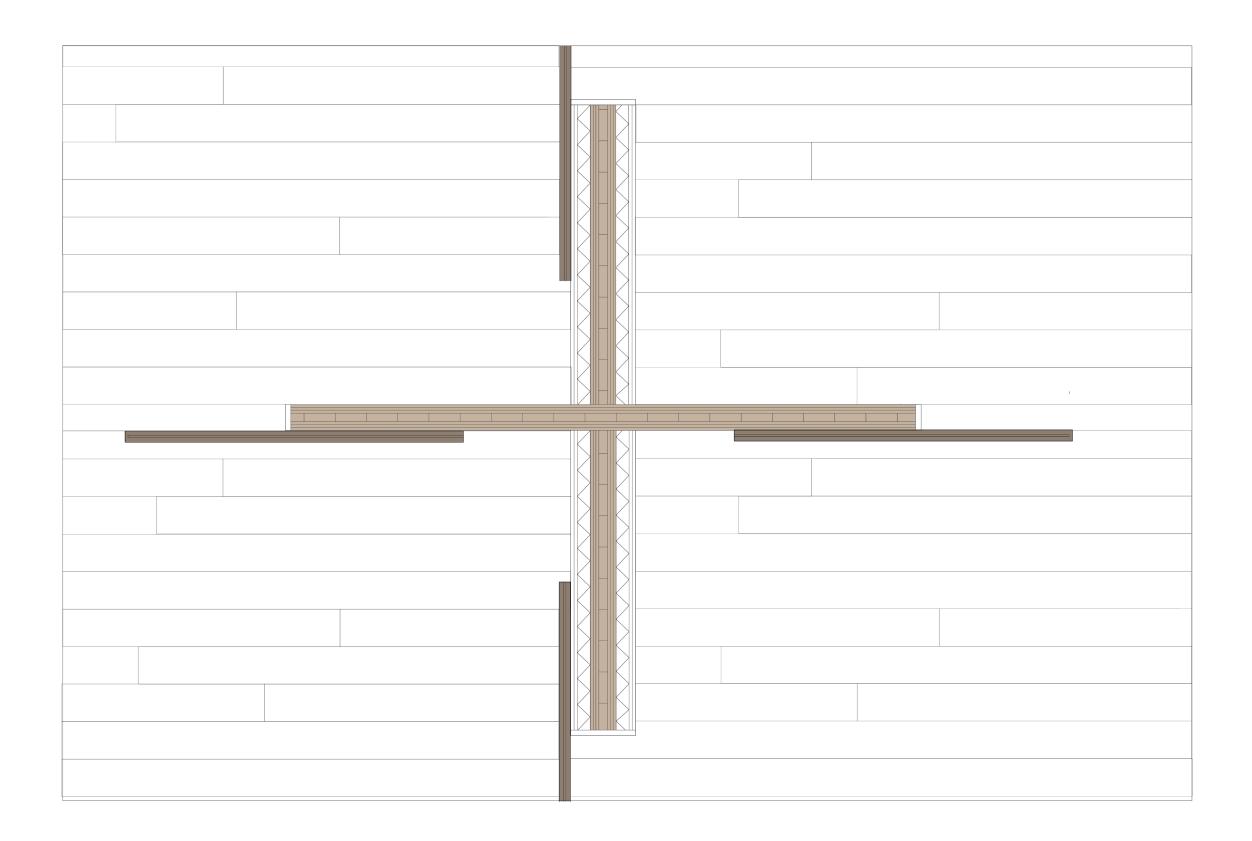




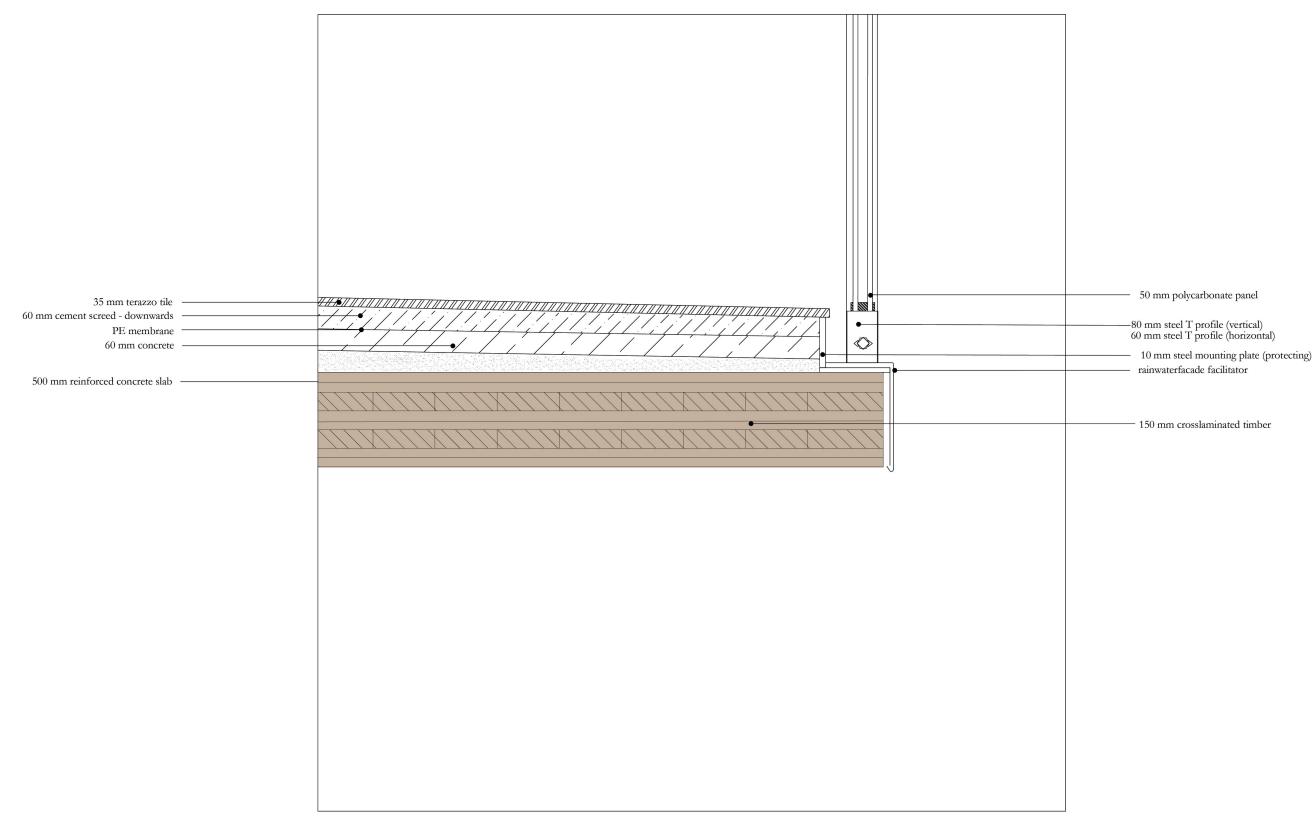


1/5 detail - roof



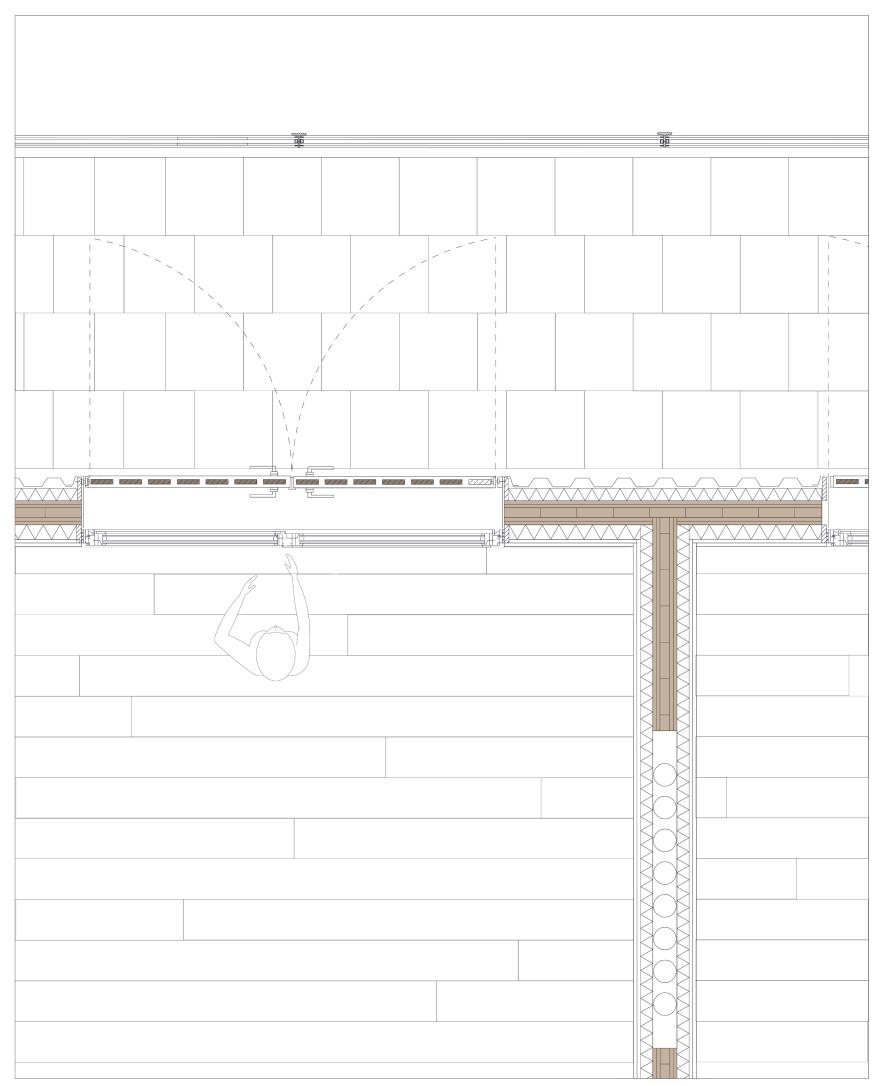






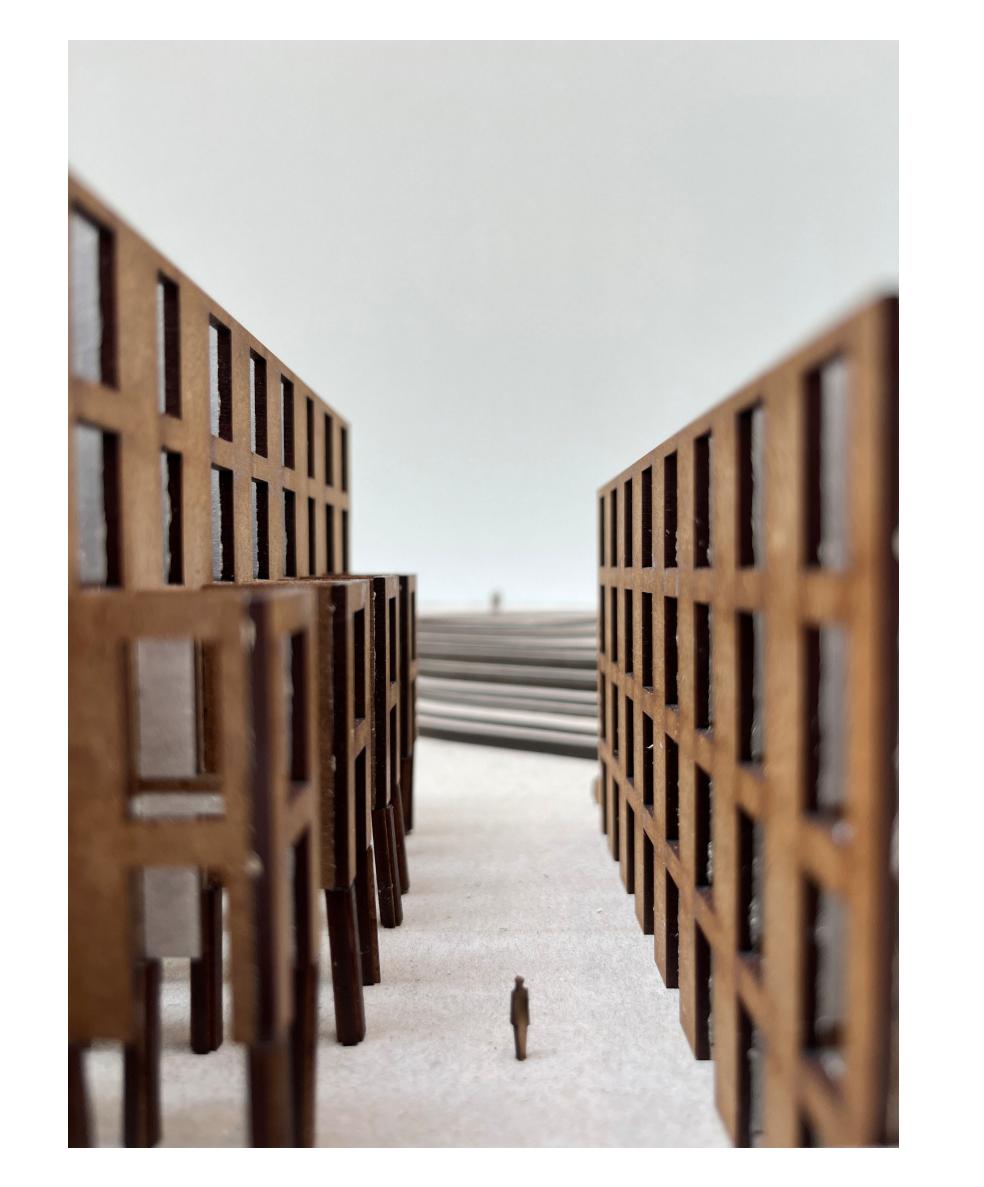


Detail 1.2

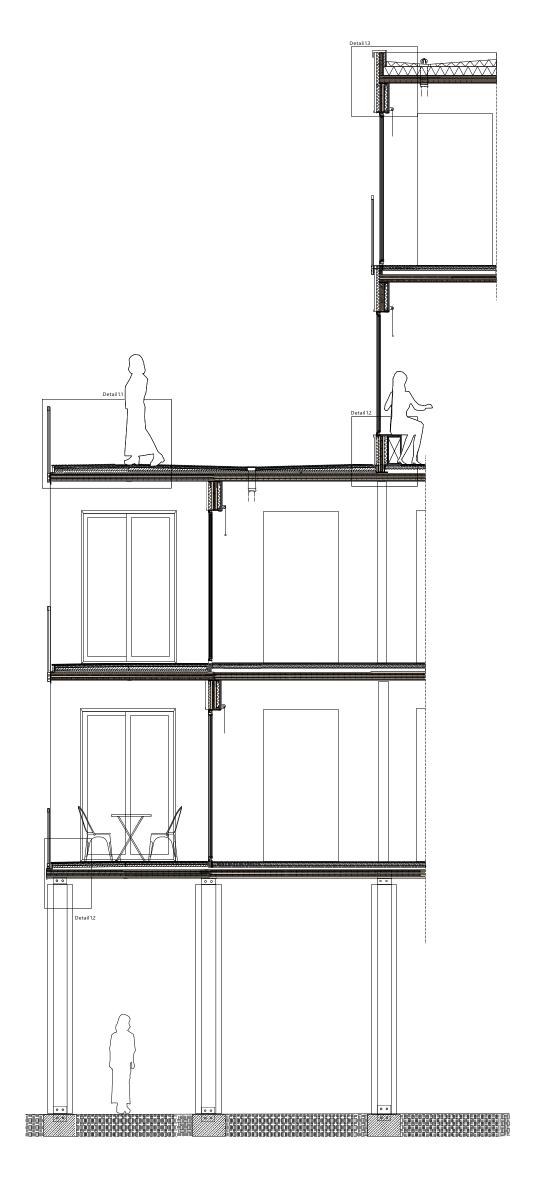


1/5 detail - acoustic facade (train and tram side)









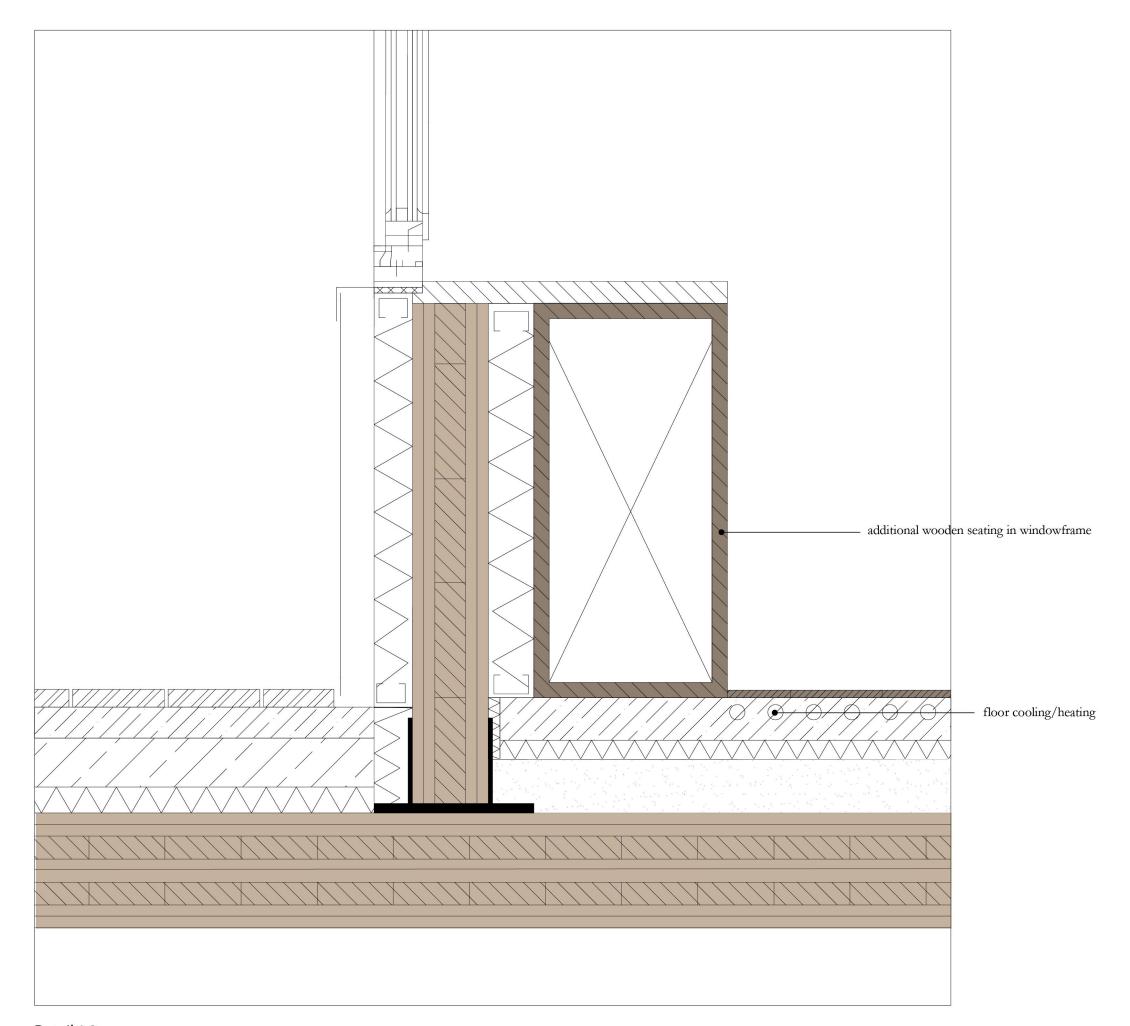




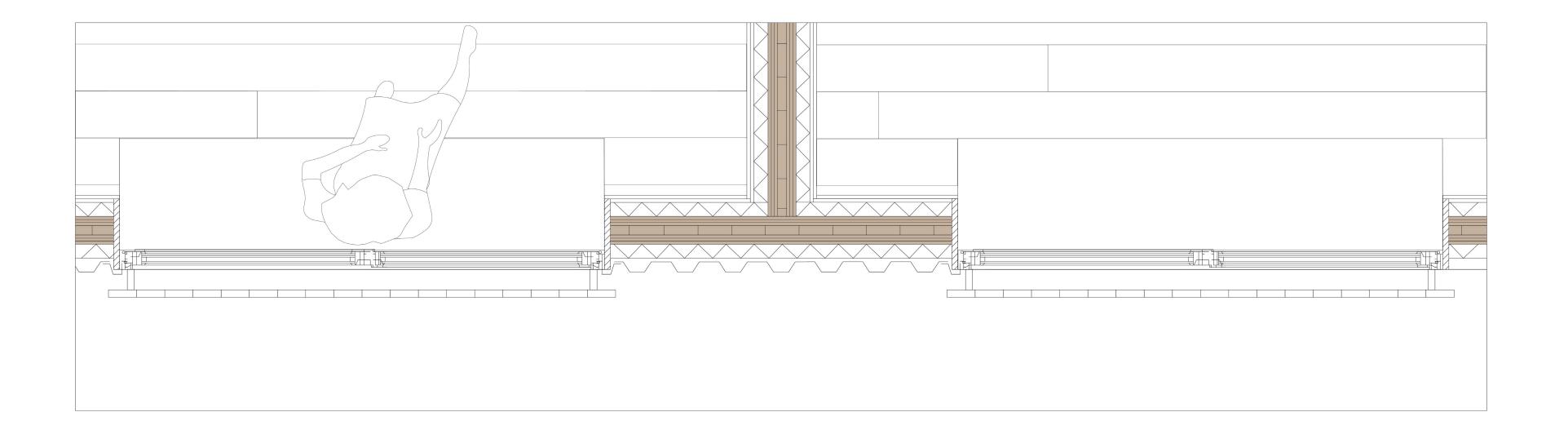


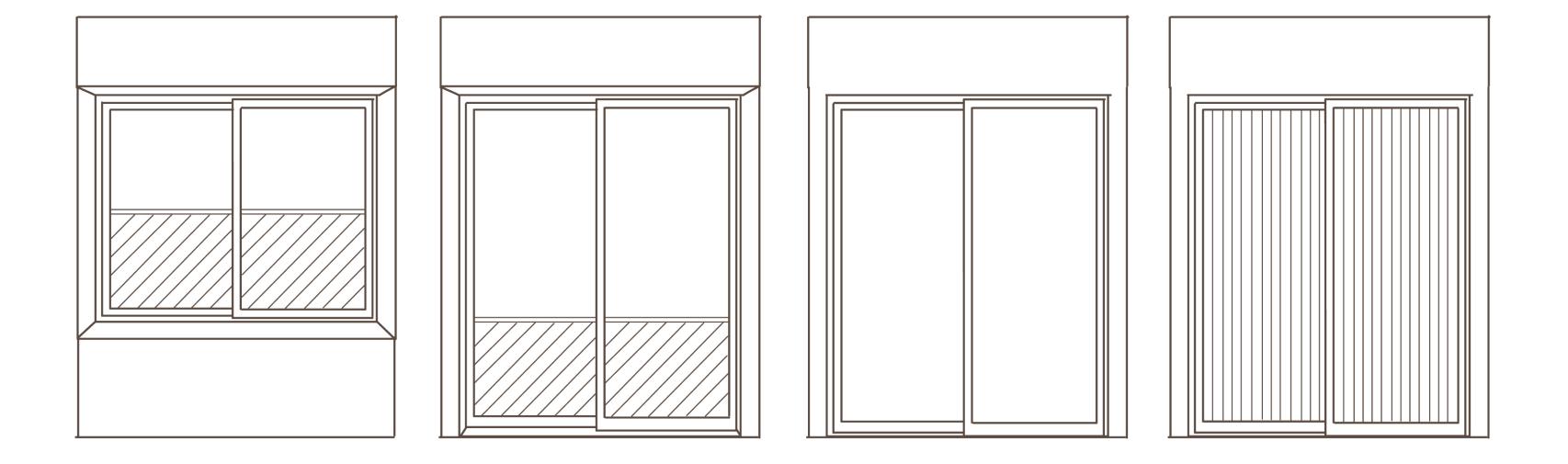


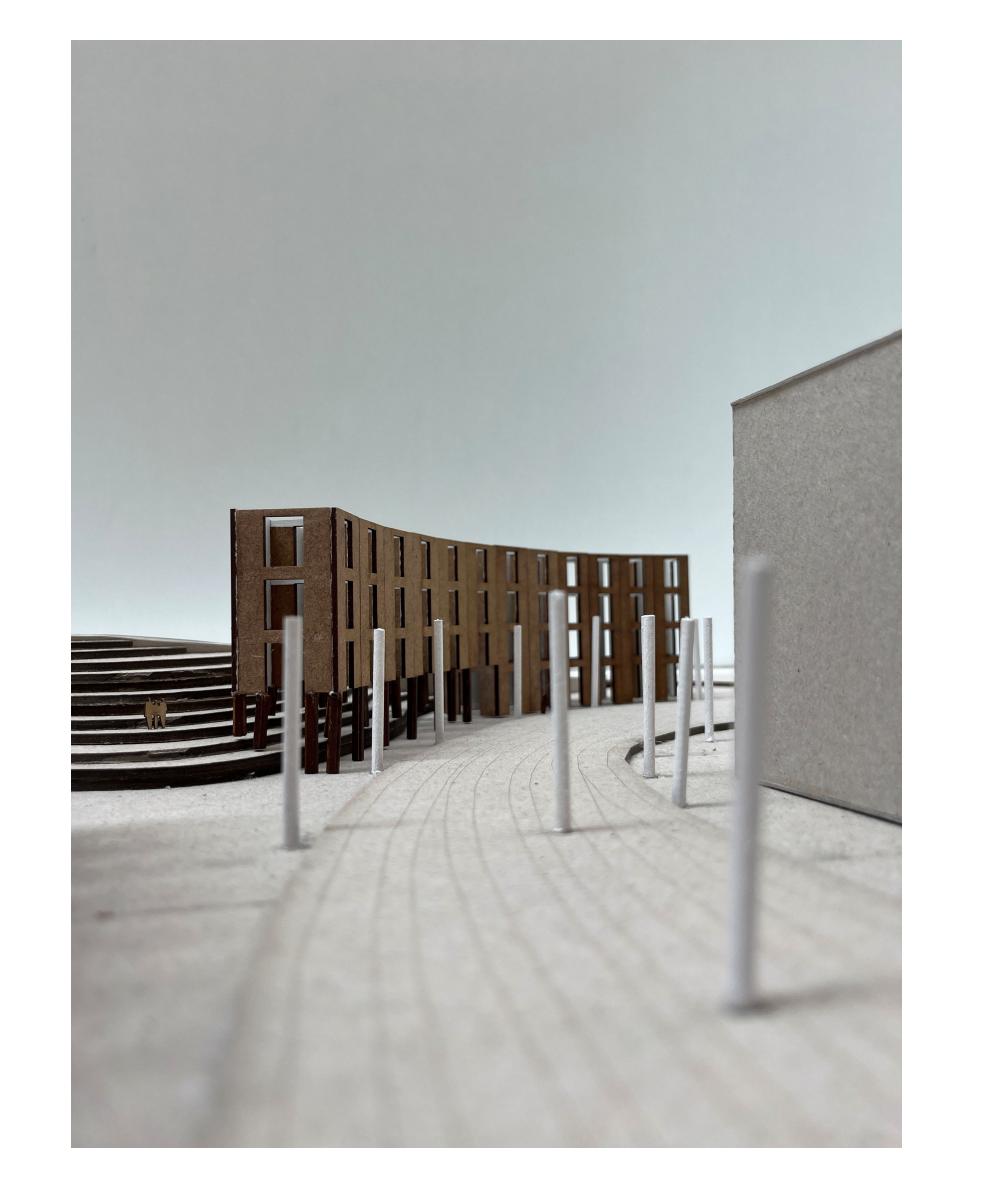
1/20 detail - inner facade blok 3



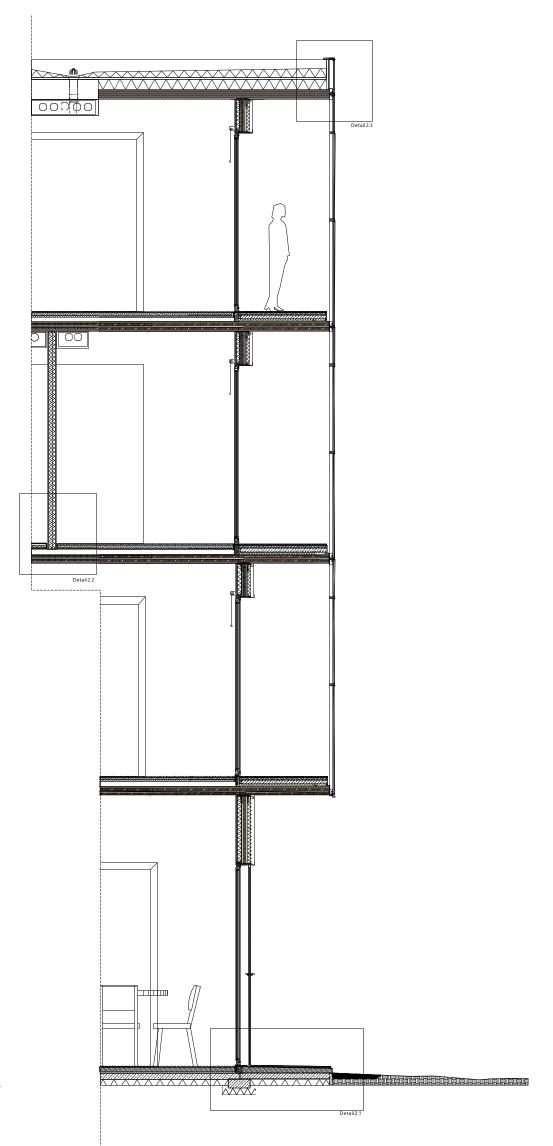
Detail 1.2



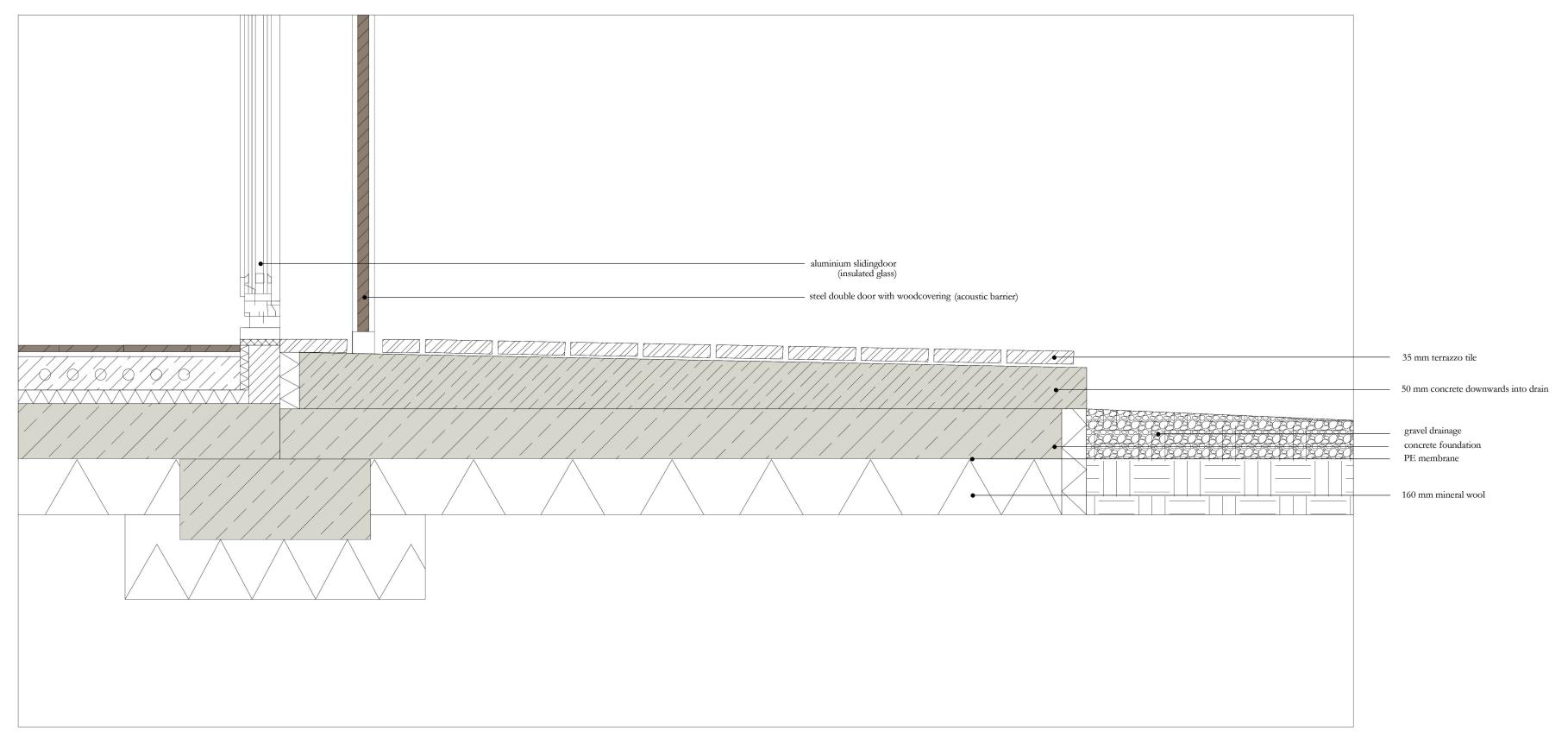




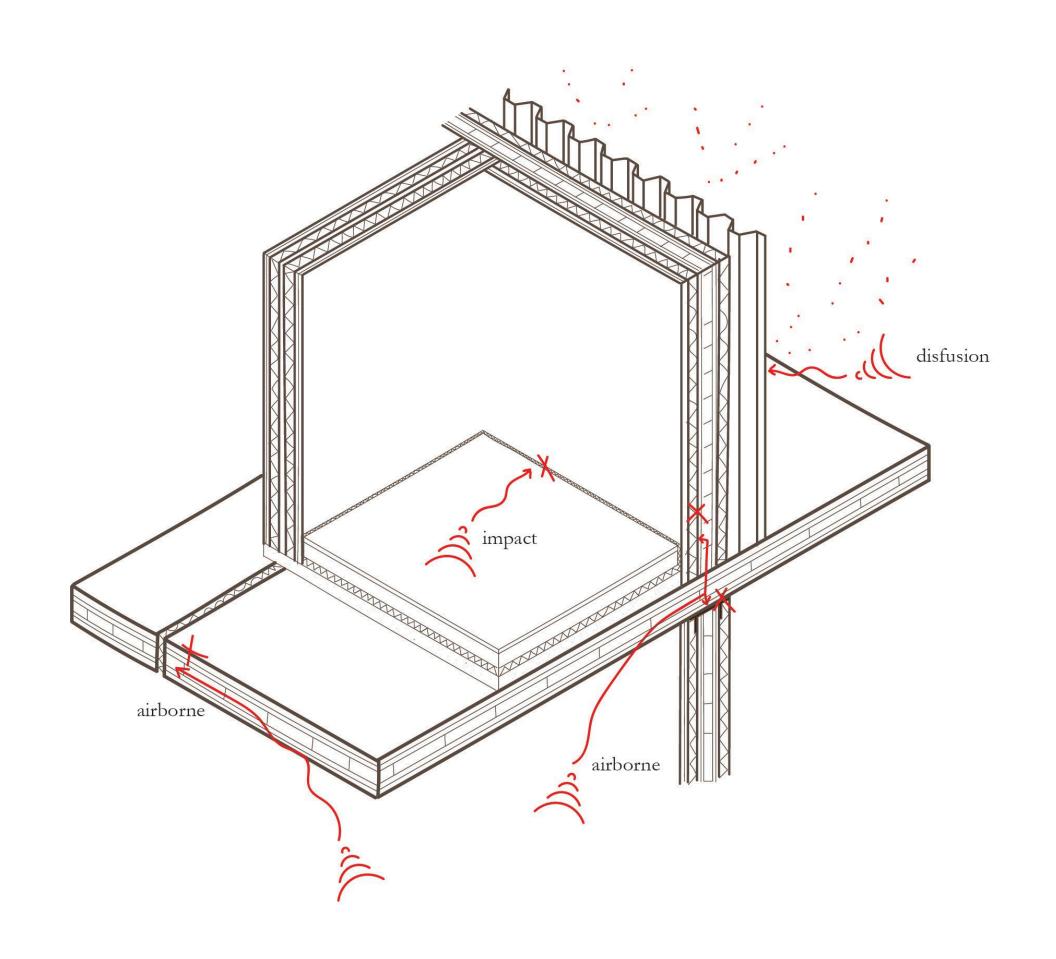


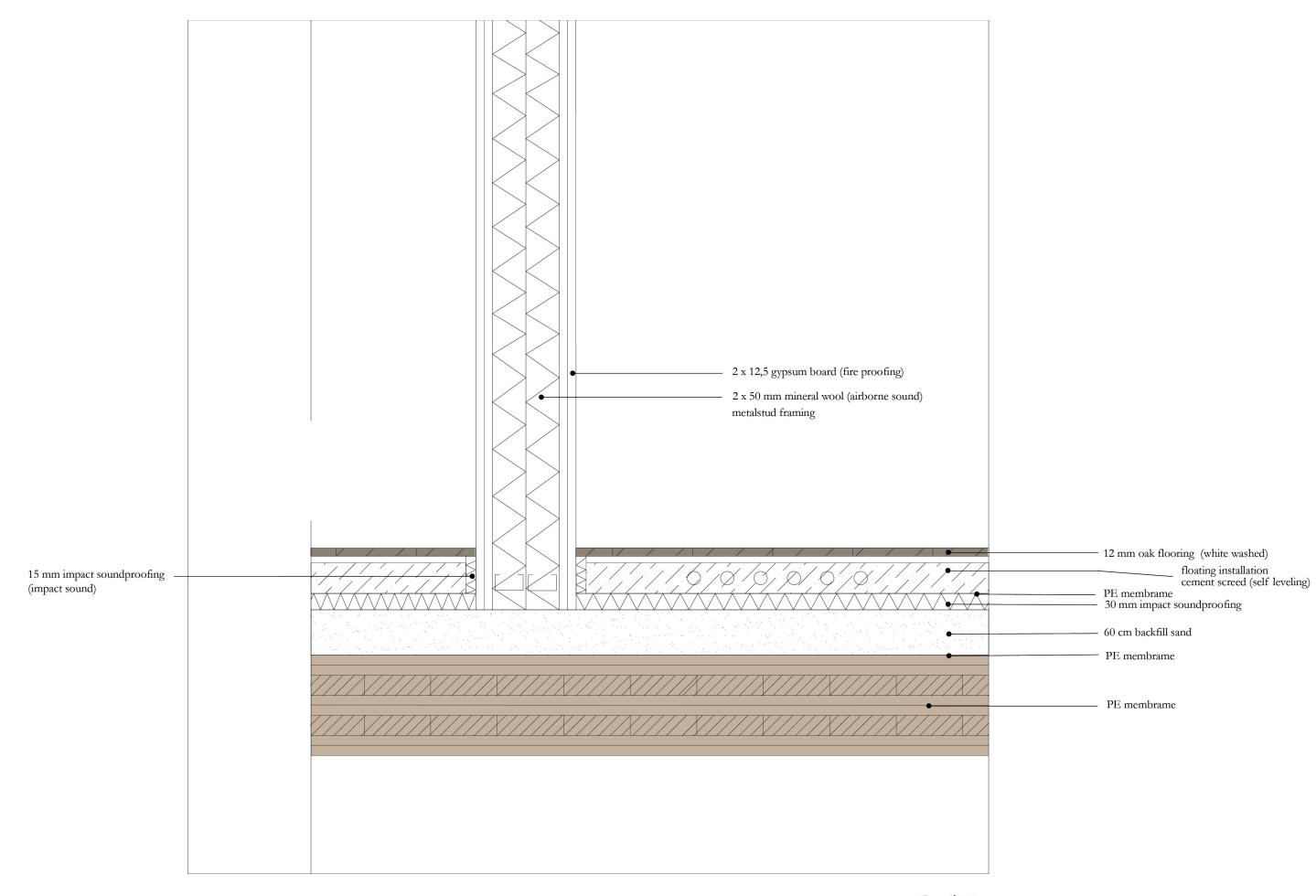


1/20 detail - blok 1 (half circle)

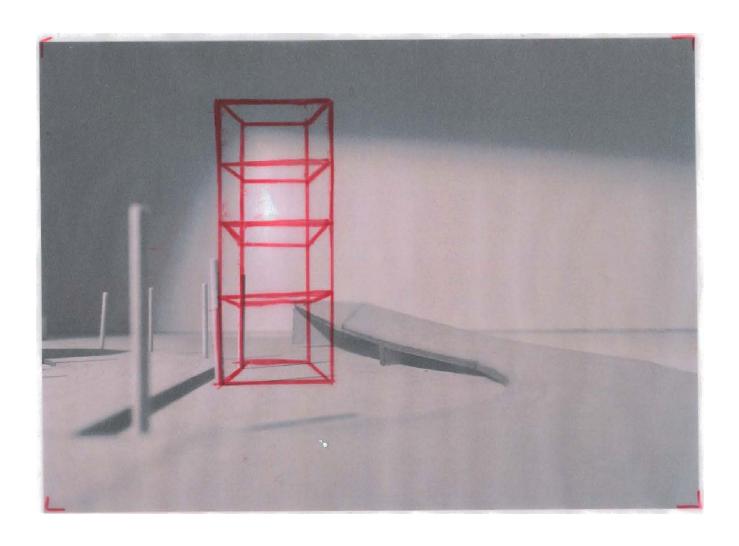


Detail 2.1

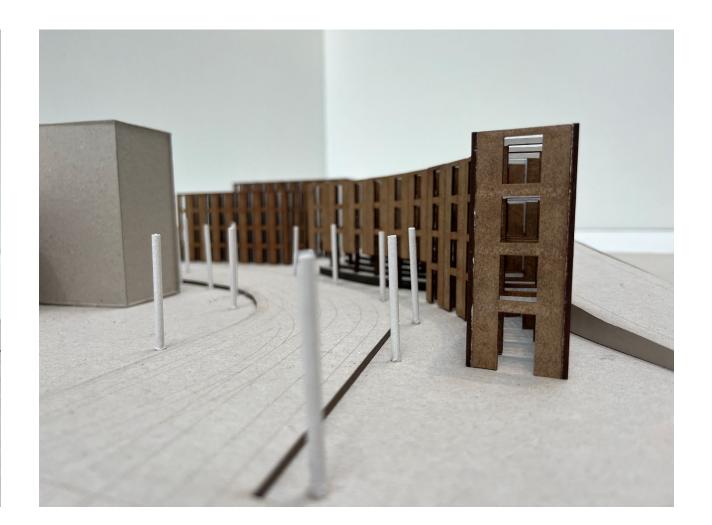




Detail 2.2







Fluid spaces refer to empty, overgrown, or neglegted spaces within the city, but most important, with a certain amount of visible potential fluidity.

So **fluid spaces** have the potency to be highly mouldable and dynamic environments.