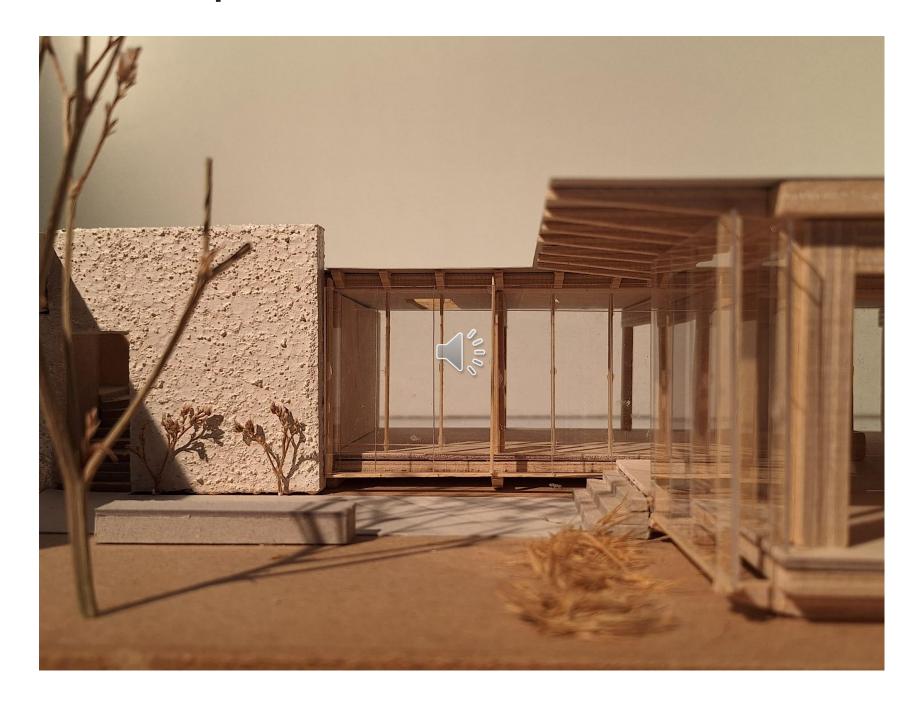
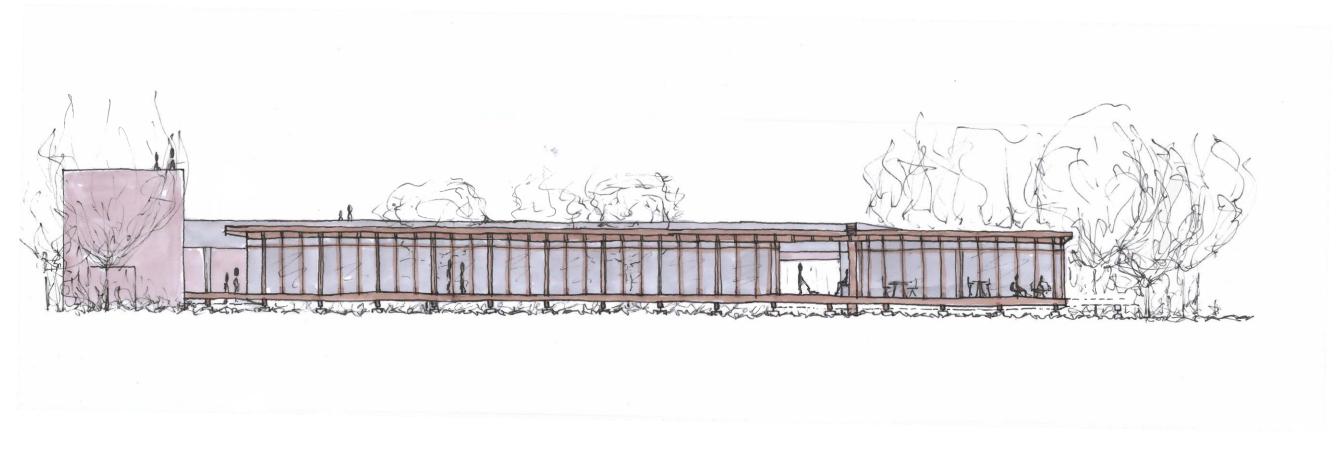
# P5 presentation I The sound of the Friche



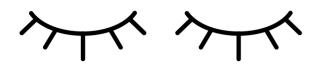
Elbrich van Stralen

# P5 presentation I The sound of the Friche



Elbrich van Stralen

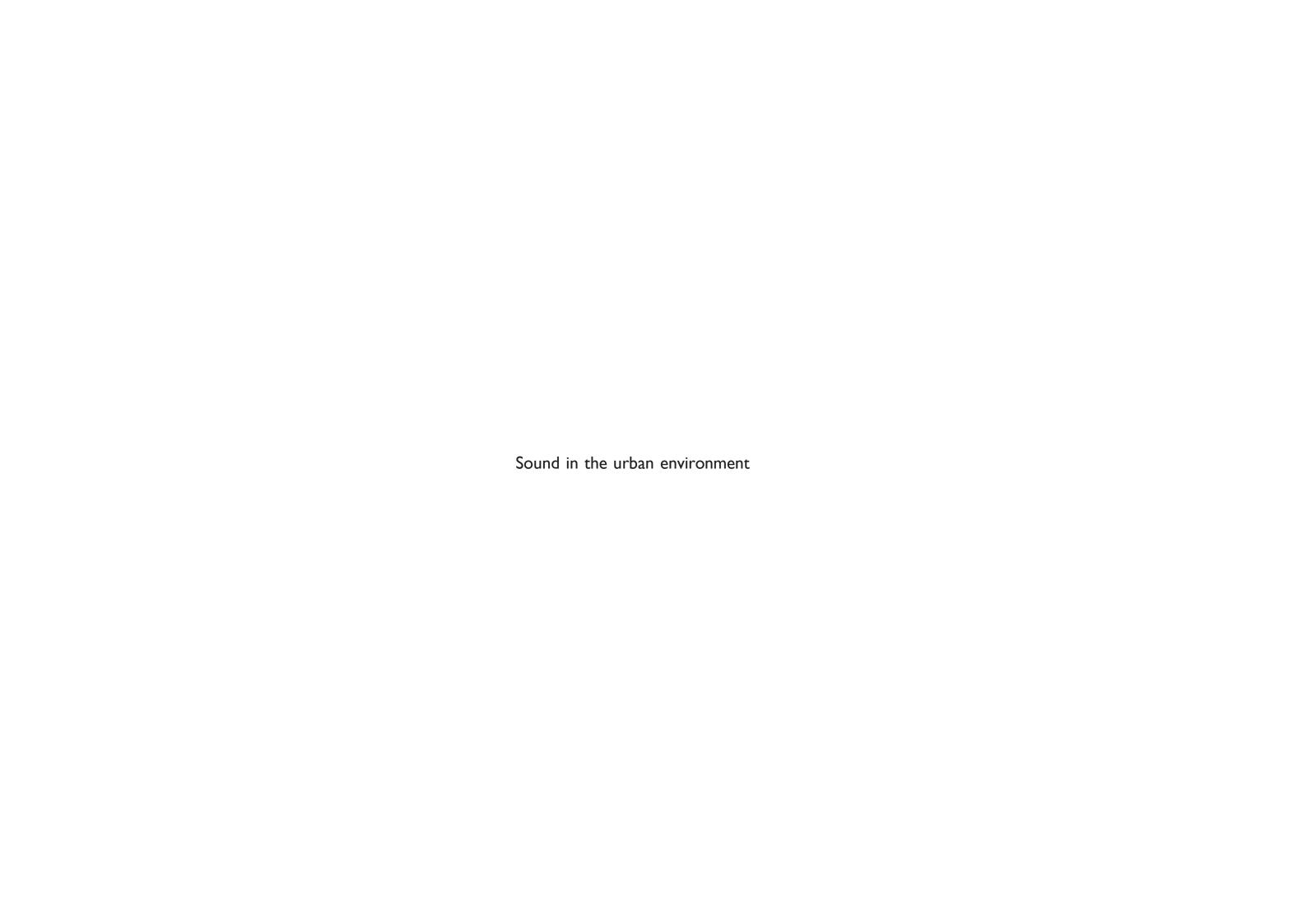
Close your eyes for a moment





'Sound is the crossing between people and their environment' - Van Lengen Sound connects people & environment; the human and non-human; the object, subject & place

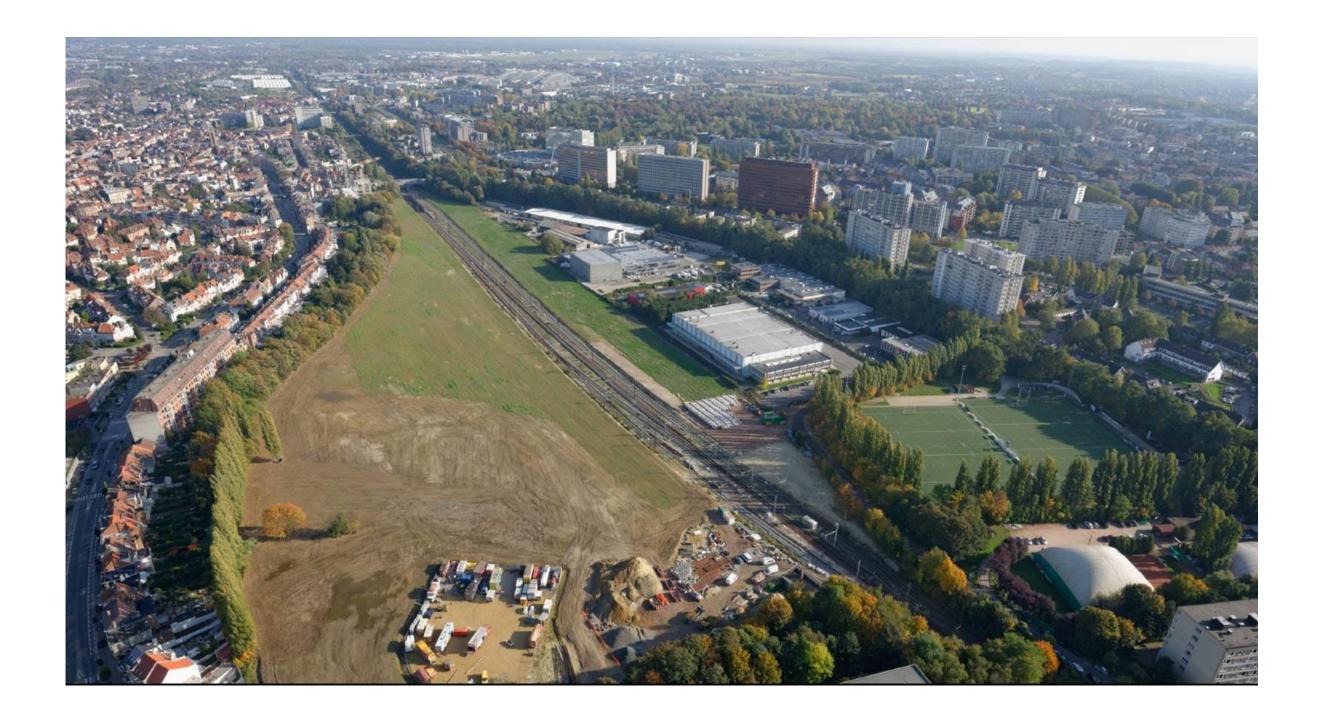
'Sound is the crossing between people and their environment' - Van Lengen Sound connects people & environment; the human and non-human; the object, subject & place But often forgotten...



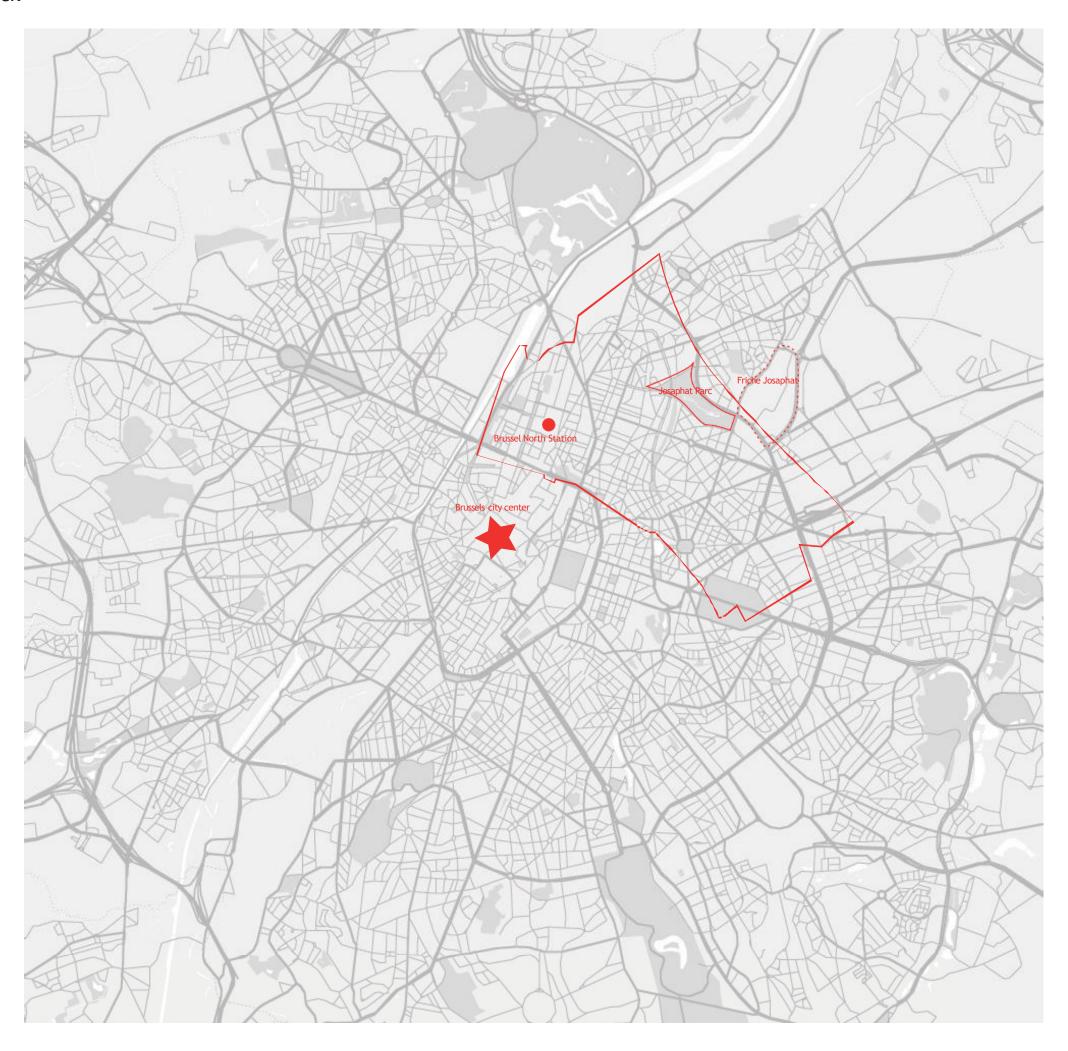






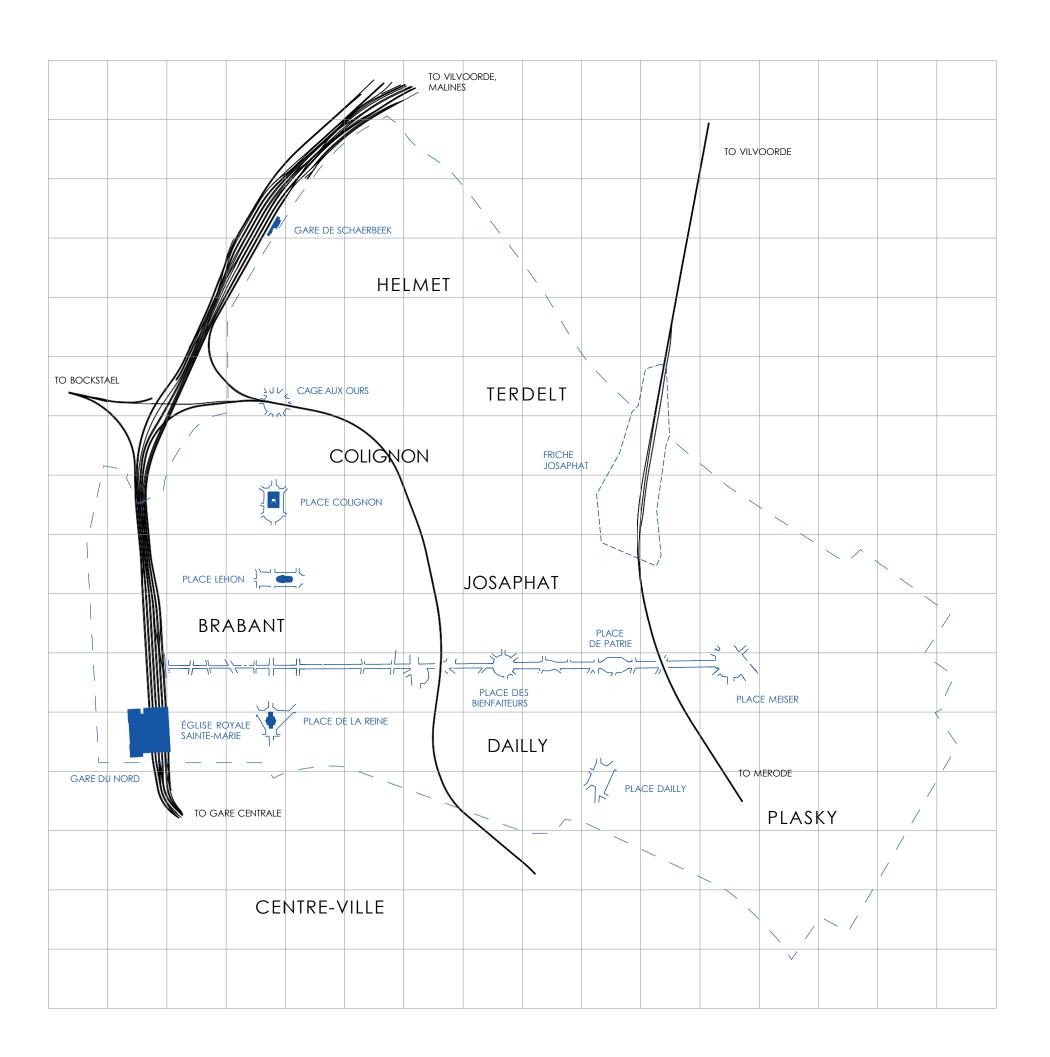


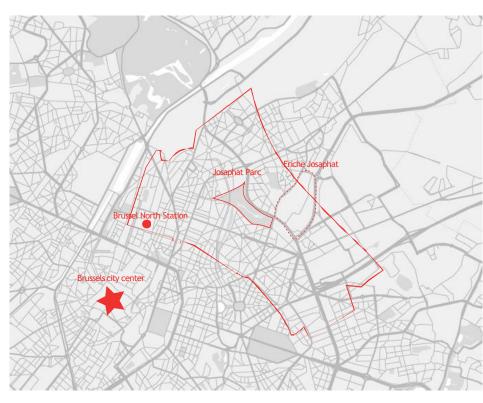






# **Introduction** I Rue Rogier









# children activities eyes on the street closing off interactions ETABLISSEMENT OU SITE SOUS SURVEILLANCE VIDEO Verisure SMART ALARMS

# sidewalk litter

### shopfronts























### signs































### food culture







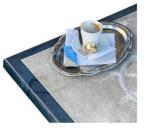








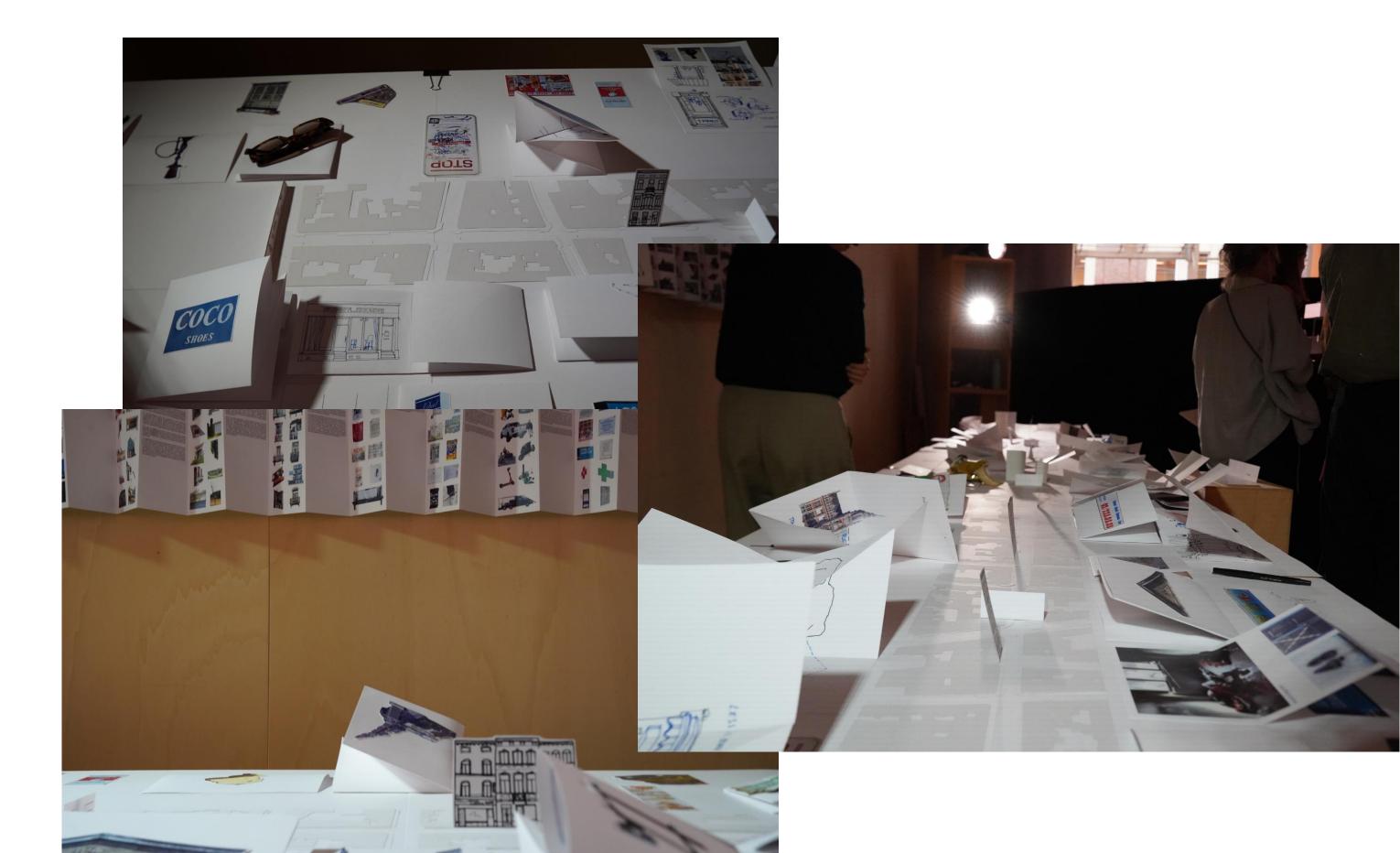


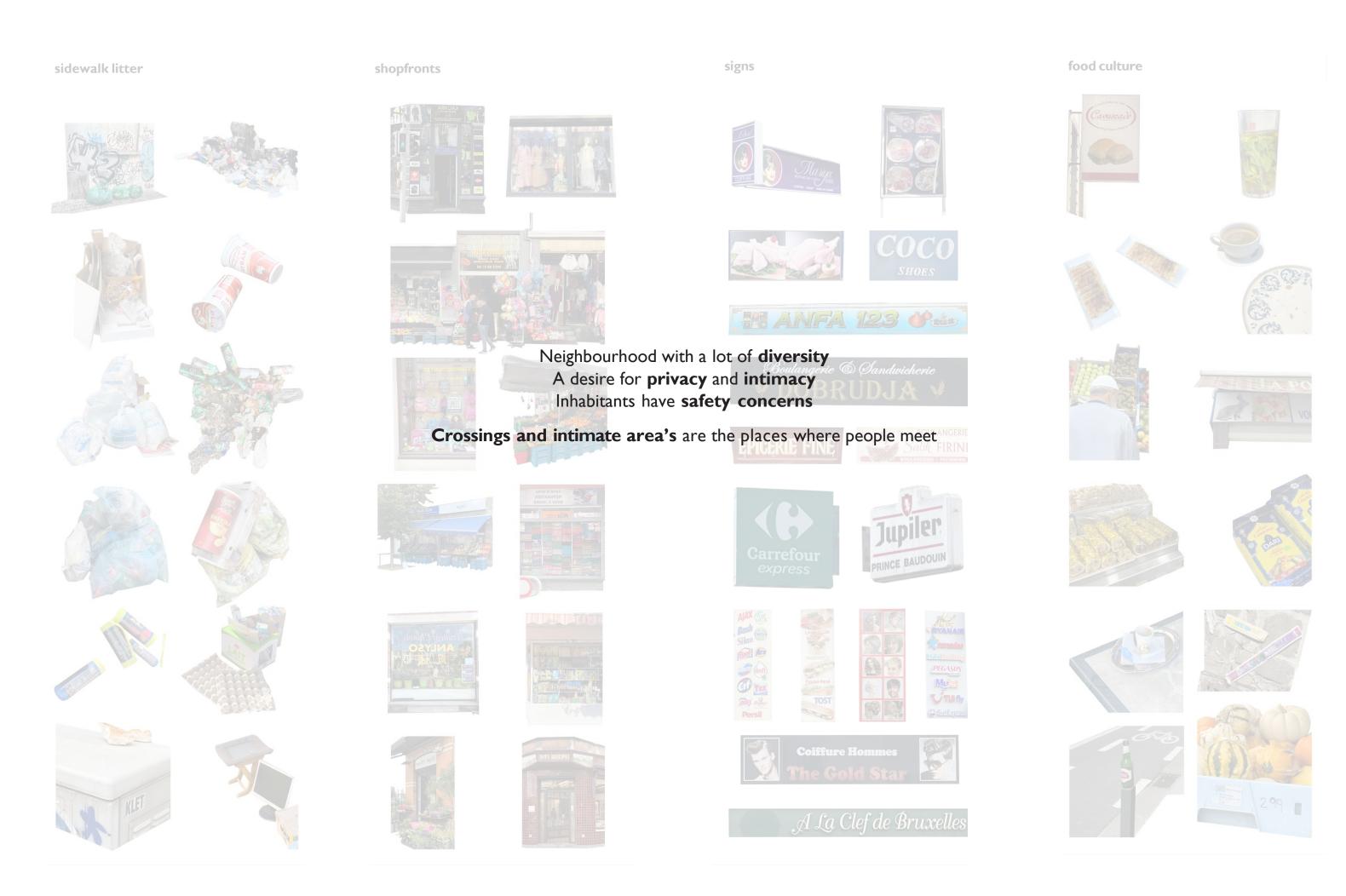




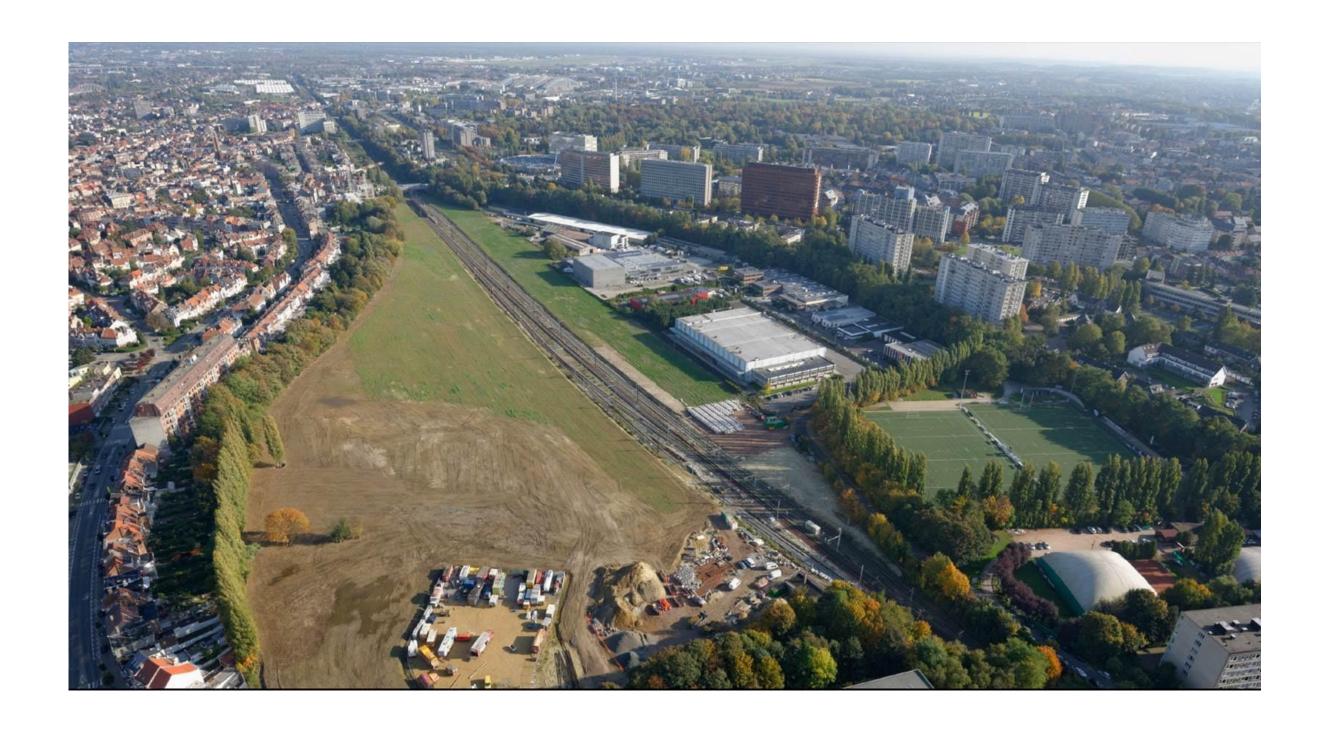


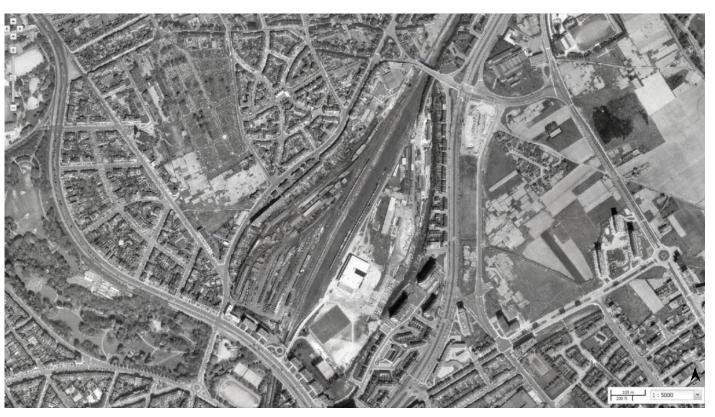






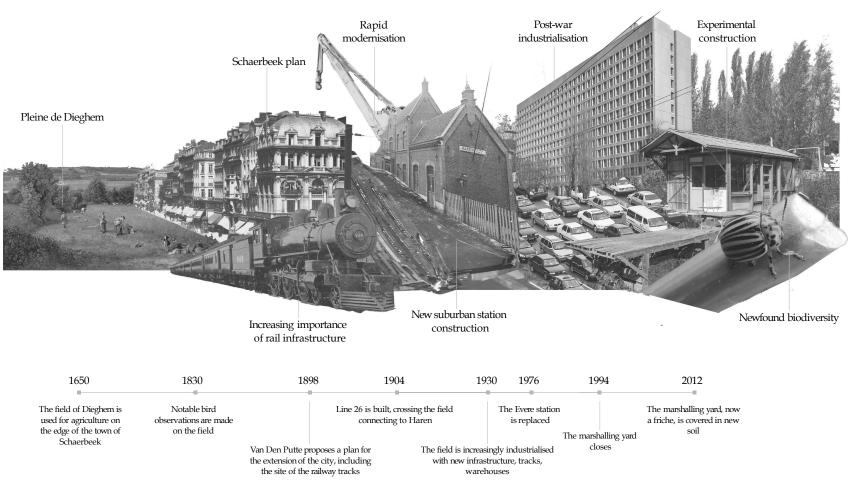


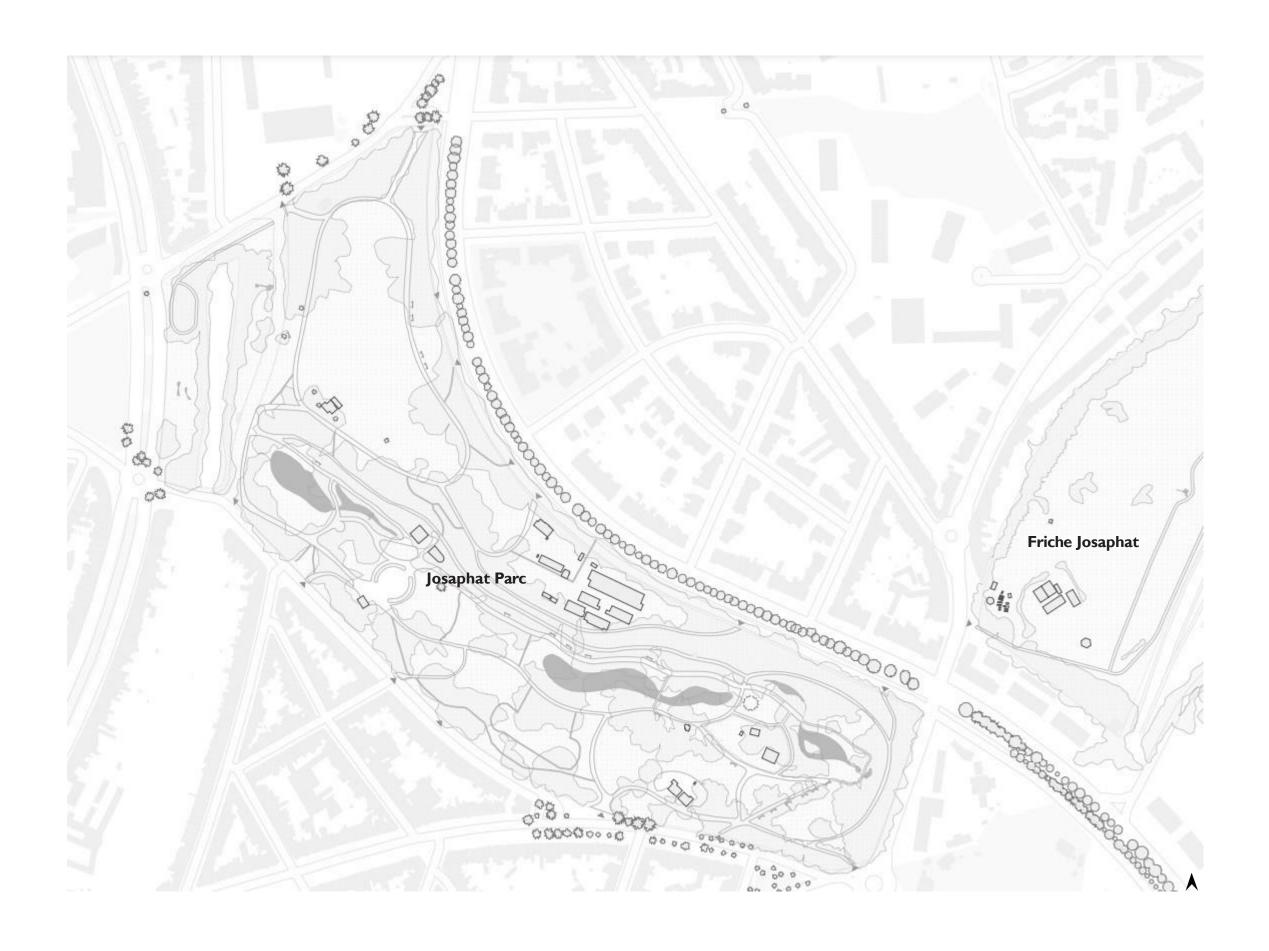




33

A timeline and collage of the history of the Friche Josaphat

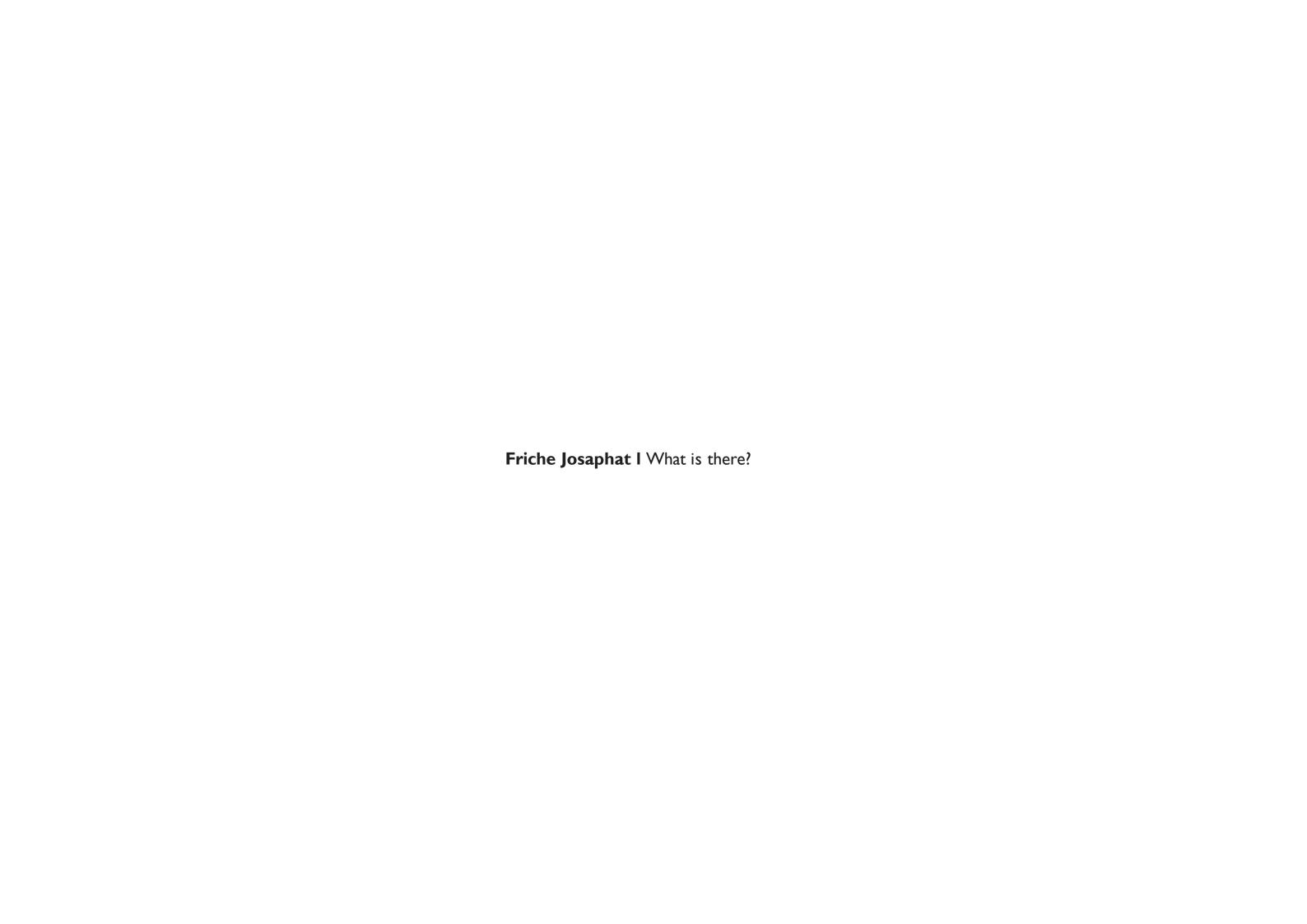




'it is a place that is **often hidden from view**, using the physical walls that surround the site to exist outside of capitalist space, **occupied by nature automatically, free from human intervention**'

'it becomes a space with the representation of the 'other' or the 'rejected', **free from social expectations**'







### LEGEND:

Industry within area

Industry outside area

Residential

en- rich area. This research focusses mainly vironment.



### 1 Baustoff + metal

distribution building materials <a href="https://www.baustoff-">https://www.baustoff-</a>

metall.be/

2 Rova

repair shop

https://www.rovasprl.b

<u>e/</u>

3 Delivco

distrubution wine

https://www.bigbagdelivery.com

L

4 Bfc rental

Camera rental

https://www.bfcrental.com

L

5 Eyelite

video production service <a href="https://www.eye-lite.com/">https://www.eye-lite.com/</a>

https://www.eventlounge.b

<u>e/</u>

6 Keygripsystems

Audio rental

https://www.kgs.be

L

### 7 Bulterys

generator rental

https://www.bulterys.be/contactbul- terys-mobile-power-stations/

8 Eventlounge

**Event location** 

https://www.eventlounge.b

e/

9 Javry coffee

coffee supplier

https://javry.com

/

10 Skeeled

softwarecompany

https://www.skeeled.com

L

11 Tsf.be

camerashop

https://tsf-

belgique.be/

12. Bpost

postcompany https://www.bpost.be/

<u>en</u>

### 13 Balcaen

construction company https://balcaen.net/contac

:/

14 EMD music

distribution musical

instruments

https://www.emdmusic.com/

15 Кср

mediacompany

https://www.kcp.be

16 Kituro

.o Kituio

rugby sports club

https://www.kituro.be

17 Wahis

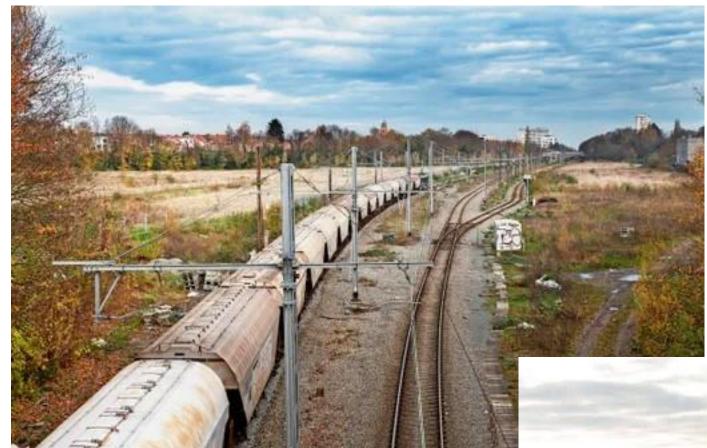
tennis sports club

http://www.tcsetwahis.b

<u>e/</u>

41

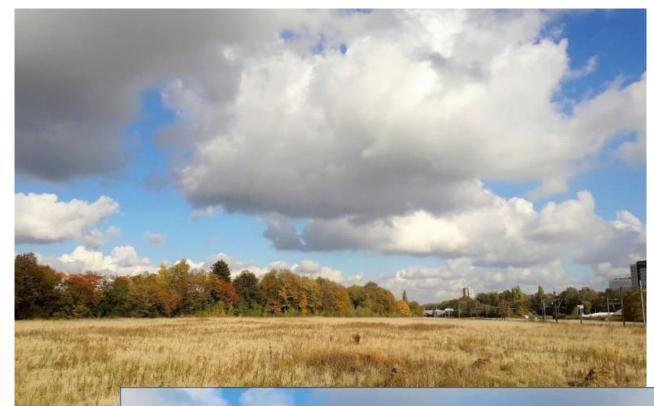
# **Introduction** | Trains







# **Introduction** | Nature











GREENPEACE

Doe mee Over ons

Doe een gift v



# Natuur voor alle **Brusselaars**

5 januari 2023 • 3 min read







De natuur is de beste buffer tegen de klimaatcrisis die we hebben, maar toch blijft ze slinken. In Brussel verdween 14% van de groene ruimte tussen 2003 en 2016. Die trend zet zich zorgeloos verder, met vele geplande nieuwbouwprojecten waar waardevolle natuur voor moet wijken. Daarom steunt Greenpeace Brusselaars die werken aan een leefbaar Brussel en eisen we dat het gewest zich beter inzet voor de bescherming van groene ruimten.

### Toekomst oogt onzeker voor 'laatste wildernis van Brussel'

Met de friche Josaphat dreigt een cruciale schakel in het ecosysteem van de hoofdstad te verdwijnen. 11.000 mensen ondertekenden een petitie tegen plannen van de Brusselse regering om er een nieuwe wijk te bouwen.

**Jef Poppelmonde** Woensdag 16 december 2020 om 3.25 uur



### 'Brussels Paradox': A wealthy region with an 'acute' housing crisis

Tuesday, 6 February 2024 By Ciara Carolan



A report from the Organisation for Economic Co-operation and "acute housing crisis" which unevenly affects the population.



perspective.brussels | De Josaphatsite in Schaarbeek/Evere. 'De nieuwbouw komt in de zone met noogste biologische kwaliteit.' zeggen actiegroepen.

'Vertrokken voor juridische guerrillastrijd': actiegroepen tegen beslissing Josaphat-site

SVG © BRUZZ 06/04/2023



'We zijn vertrokken voor een juridische guerrillastrijd, zegt Pierre Ryckmans van Sauvons la friche Josaphat, als reactie op de toekenning van het bouwproject aan Axa-Eiffage op het voormalig spoorterrein in Schaarbeek.

### **Burgers dagen** ministers voor de rechter om bouwstop in natuurgebieden af te dwingen

Delen: 🙀 🗶 🖾 🕓

Het burgercollectief We Are Nature. Brussels lanceert vandaag een procedure bij de rechtbank van eerste aanleg die gericht is tegen het Brussels Gewest. De initiatiefnemers hopen via de rechtbank een Brussels bouwmoratorium in tientallen natuurlijke gebieden in de stad te bekomen. Er zijn duizend mededertekenaars, maar de initiatiefnemers hopen dat "een veelvoud" aan limaatbewuste burgers zich nog aansluit



RV, SVG 06/04/2023 Updated: 06/04/2023 16.30u

Delen: 🕶 🗶 🖂 🕓



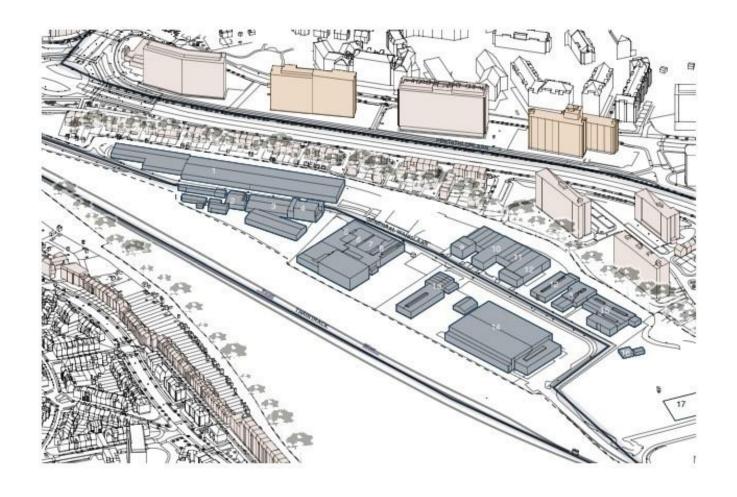
Het consortium Axa-Eiffage heeft het contract binnengehaald voor de eerste fase van de ontwikkeling van de Josaphat-site. Dat is bekendgemaakt door de Maatschappij voor Stedelijke Inrichting (MSI). Er zullen 509 woningen worden gebouwd. "We willen snel beginnen bouwen," zegt Patrick Verougstraete (Eiffage).



"It is impossible for us to find another space in the city like this, so close to the city centre."



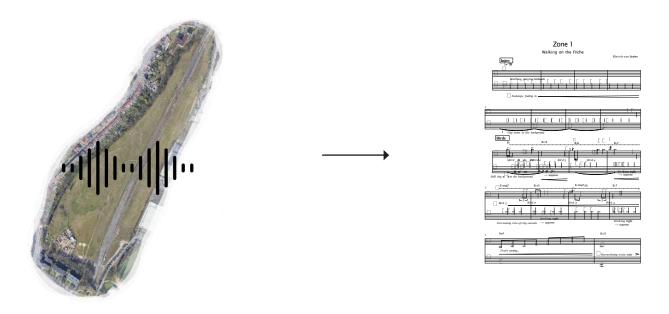
"We have been here for a long time, we don't want to leave."

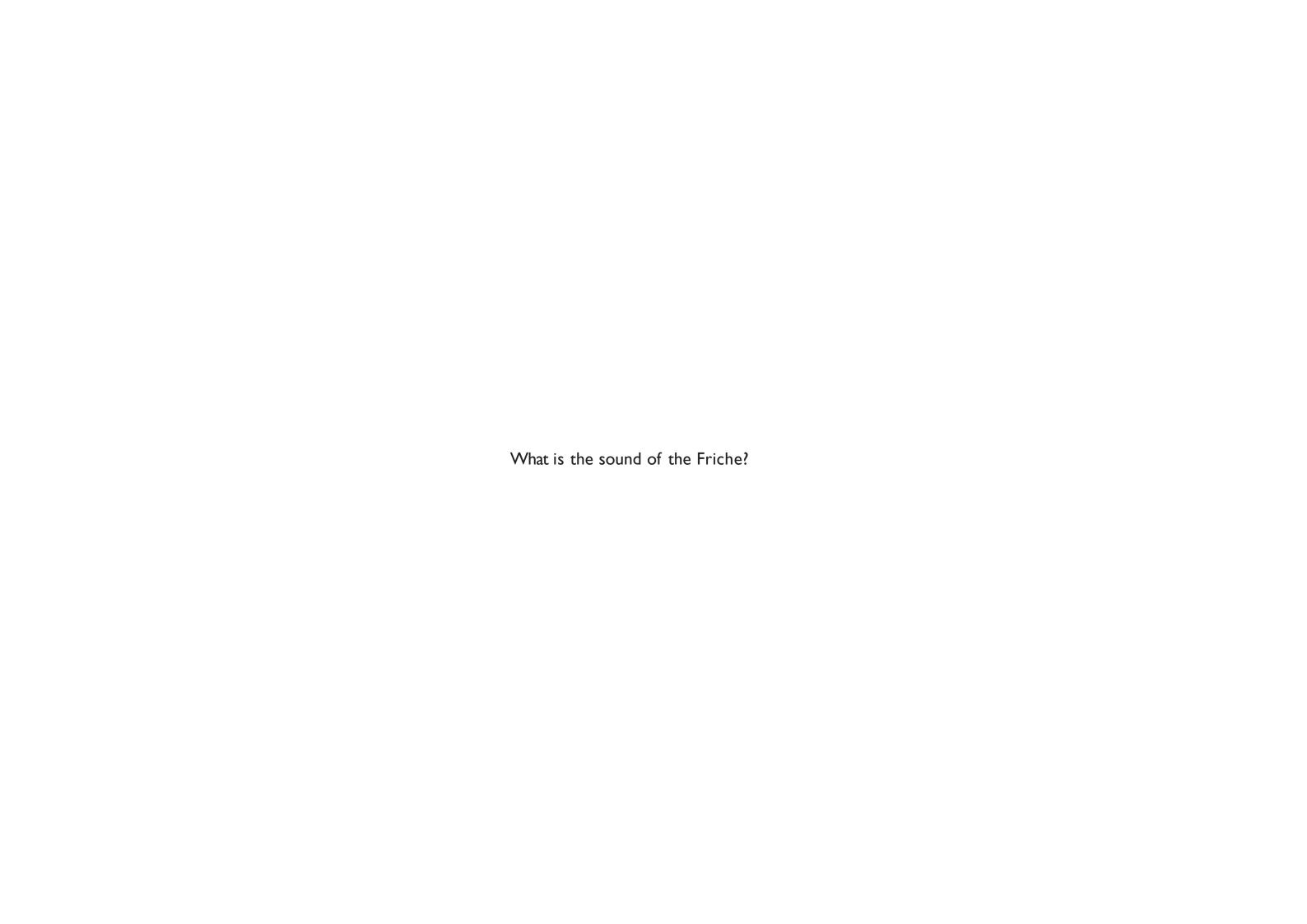


Analysis by listening to sounds



# And translating this sounds into music









#### Research & design P2 | Analysis of west side of the Friche







#### Flowing water // Industry



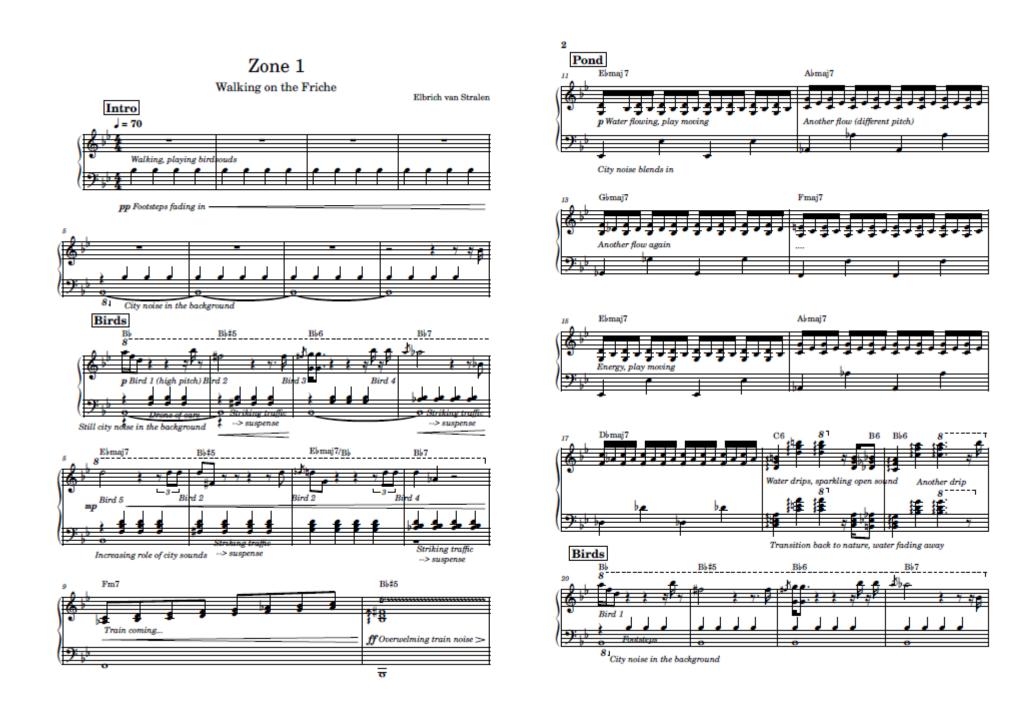
#### City sound // Harmony

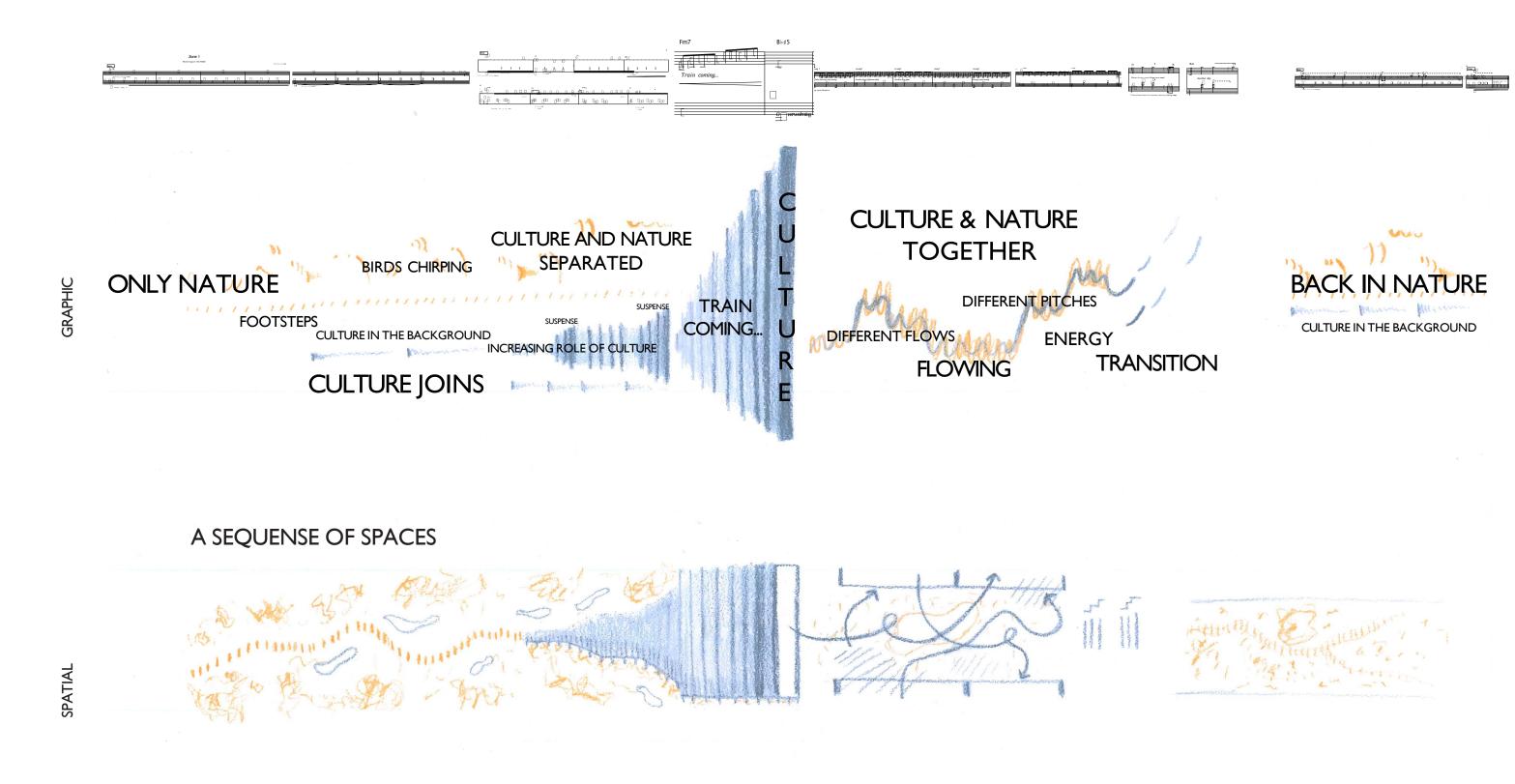


#### Train // Harmony





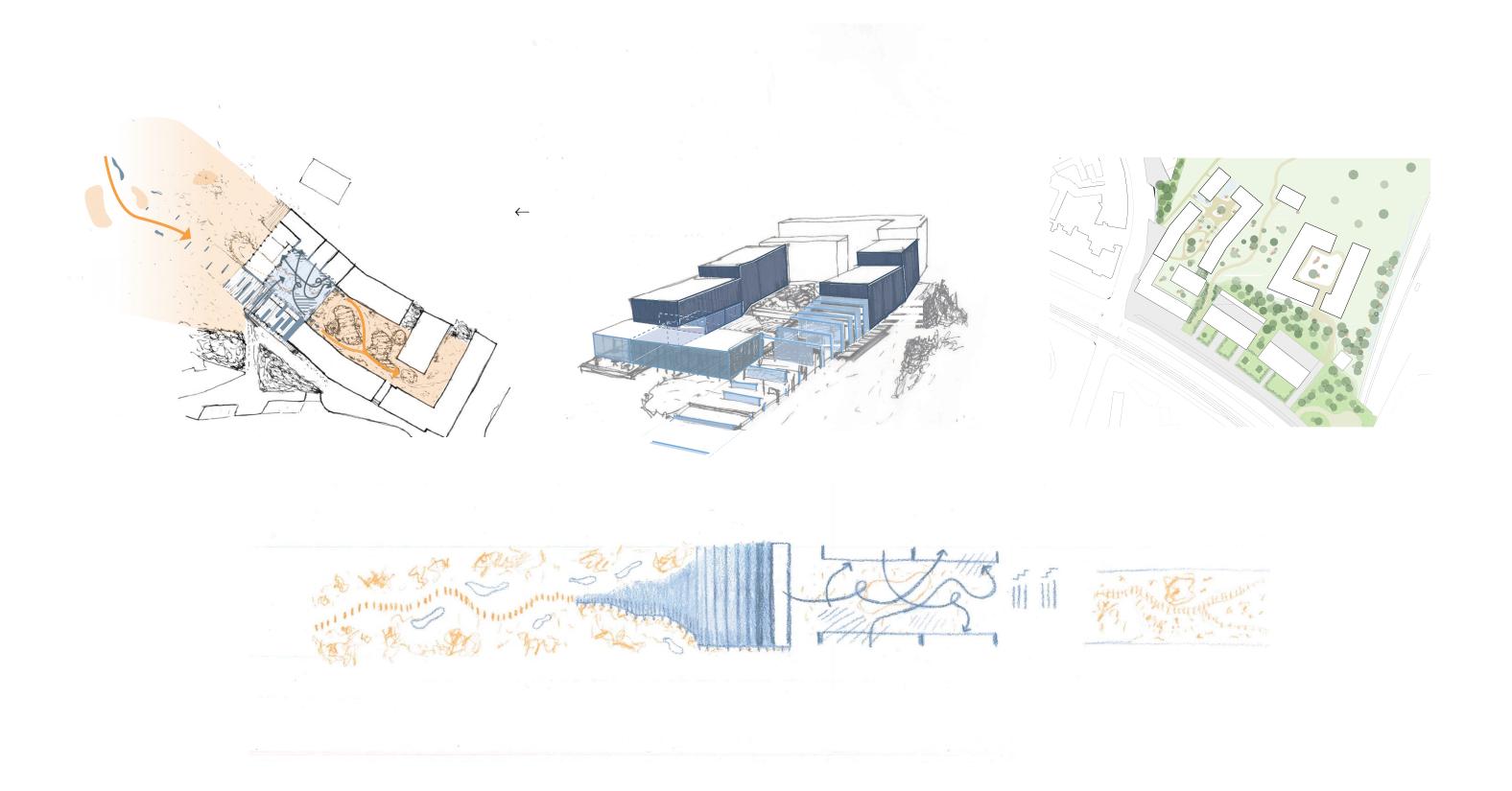






CULTURE - THE IDEAS, CUSTOMS, AND SOCIAL BEHAVIOUR OF A PARTICULAR PEOPLE OR SOCIETY

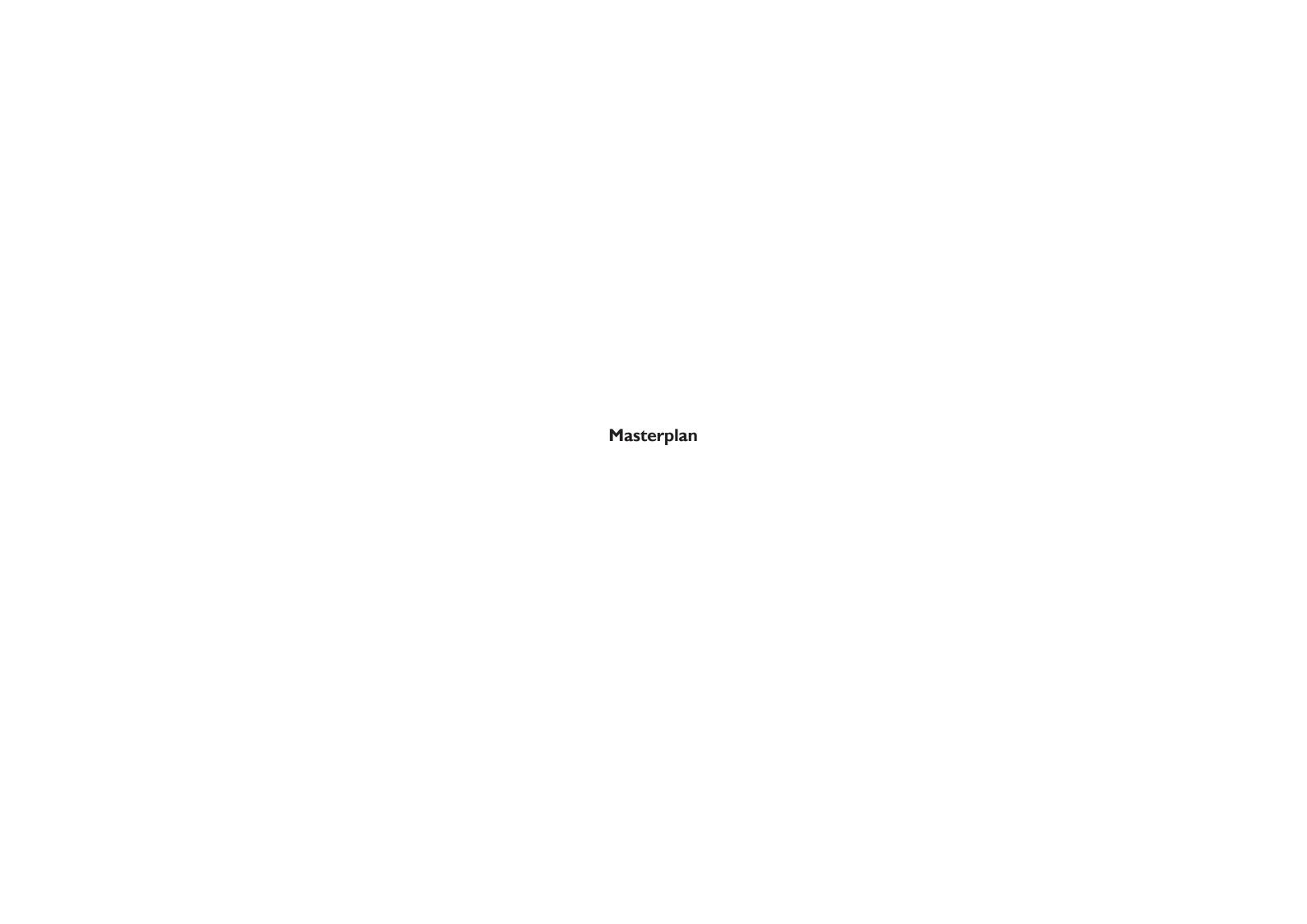
NATURE - THE PHENOMENA OF THE PHYSICAL WORLD COLLECTIVELY, INCLUDING PLANTS, ANIMALS, THE LANDSCAPE, AND OTHER FEATURES AND PRODUCTS OF THE EARTH, AS OPPOSED TO HUMANS OR HUMAN CREATIONS



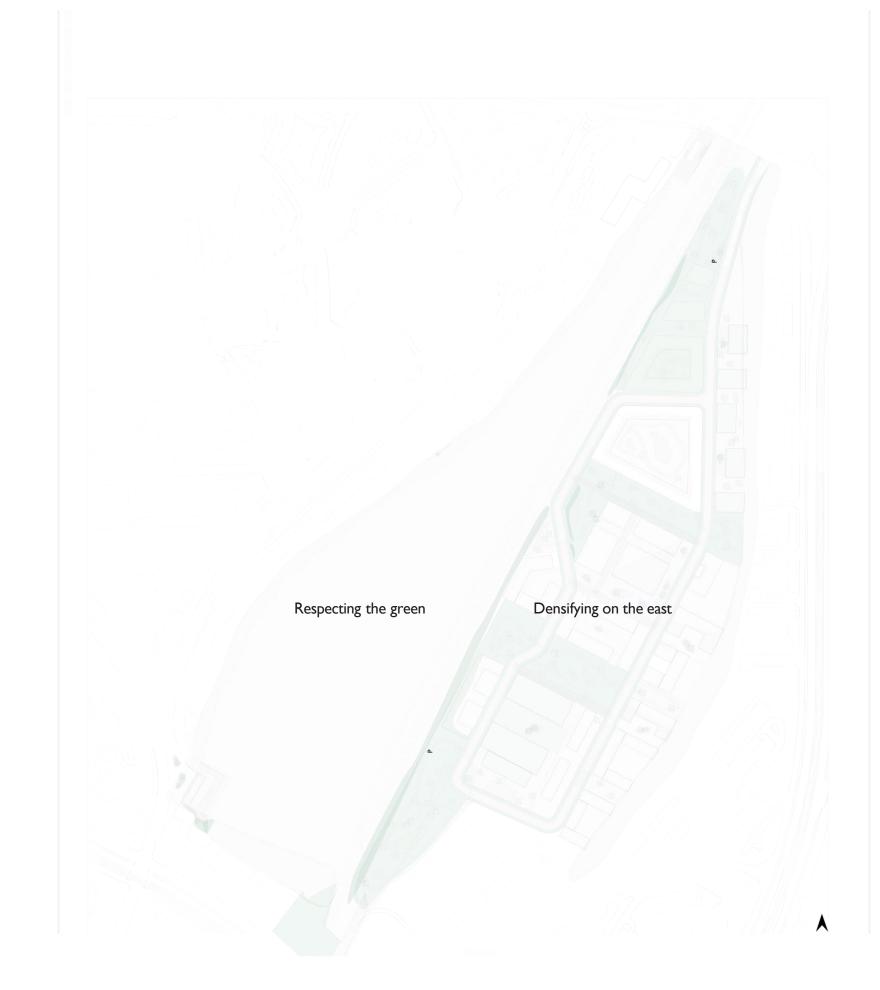


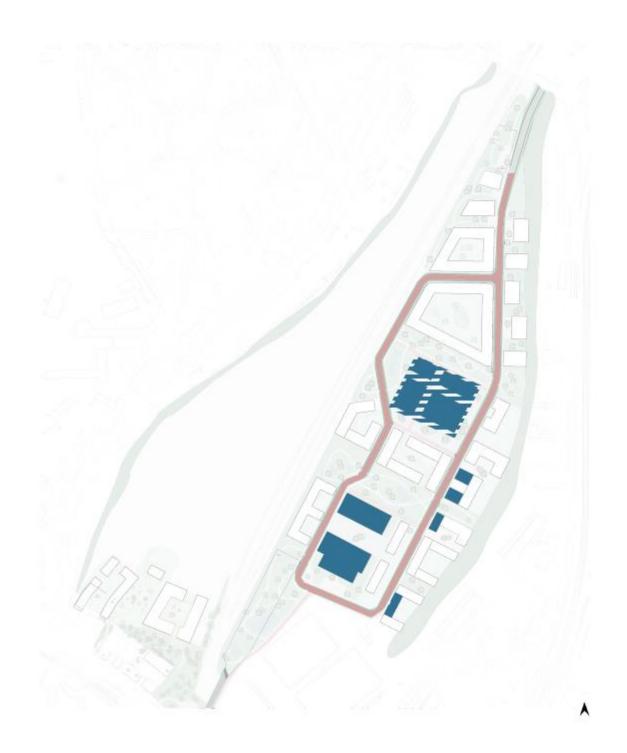
CULTURE - THE IDEAS, CUSTOMS, AND SOCIAL BEHAVIOUR OF A PARTICULAR PEOPLE OR SOCIETY

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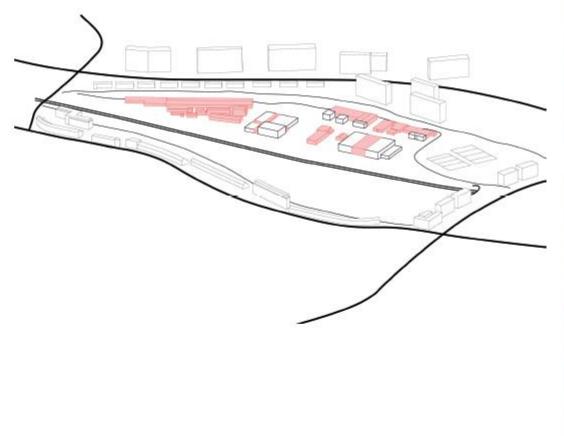






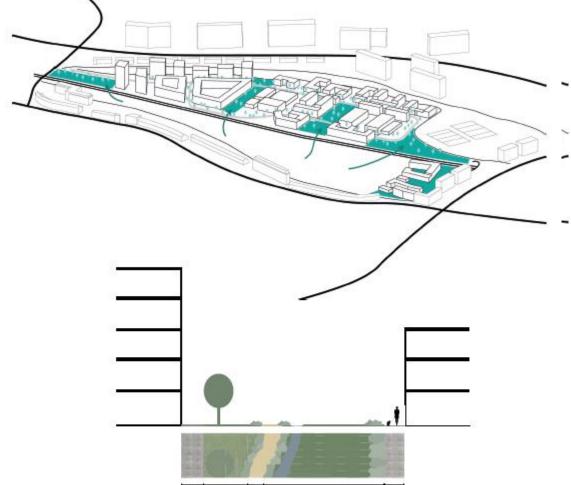


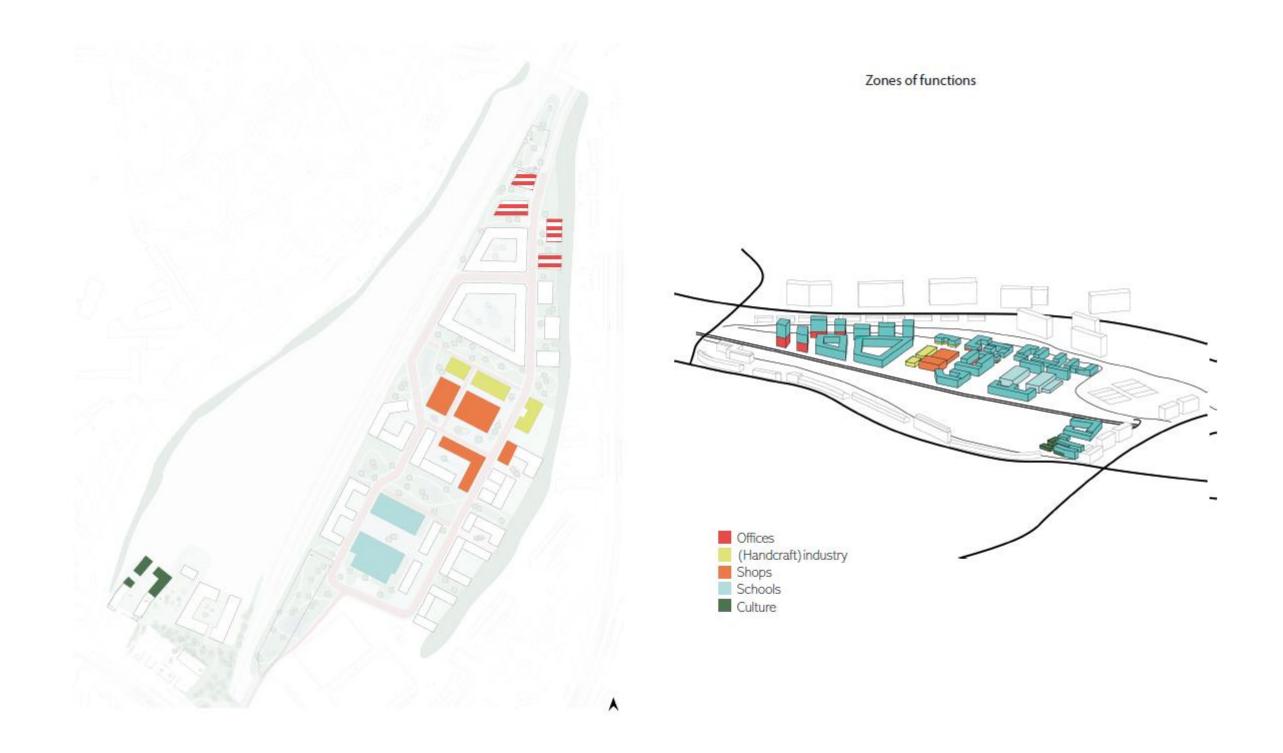
Re-use old industry structures and part of the road structure and keep opportunities for industry

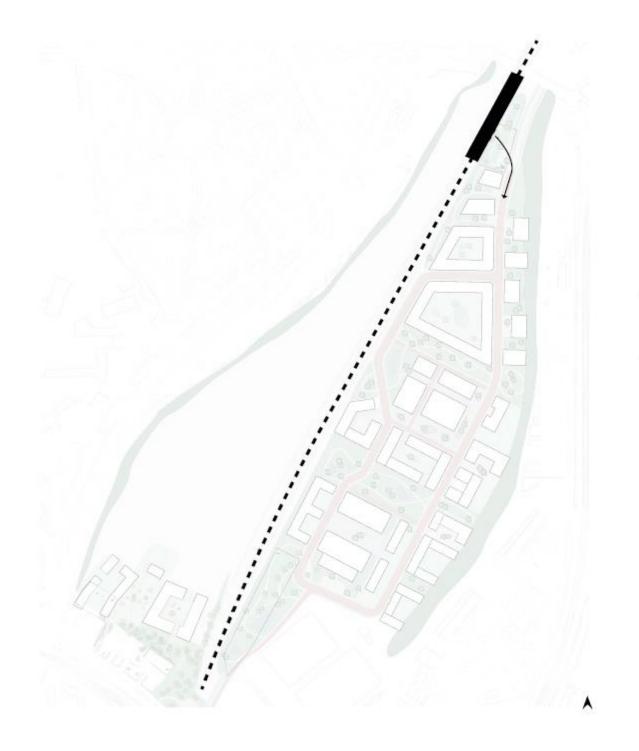




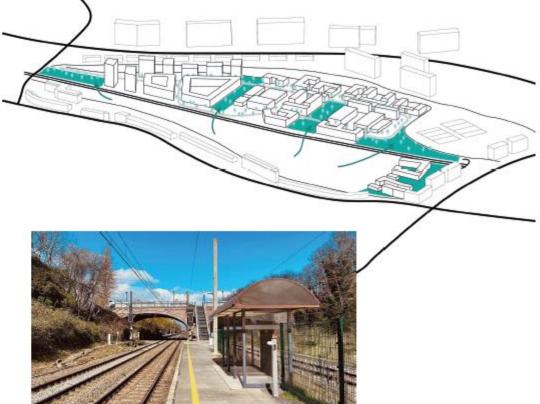
Creating a bufferzone between biodiverse nature and new neighbourhood & connecting the green

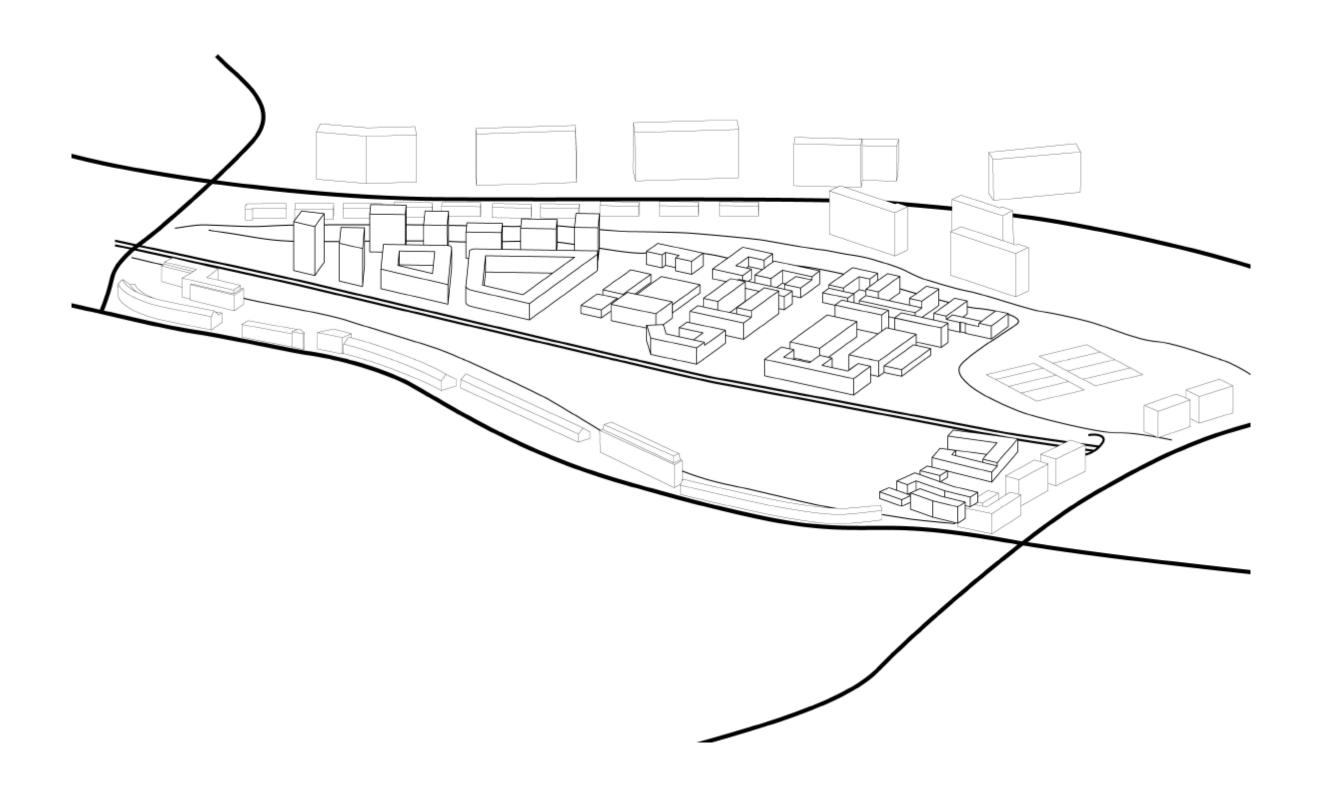






Make use of the existing traintrack to connect the new neighbourhood to the rest of the city







Research I Inspiration: sonic shelter

# de luwteplek

een ruimtelijk onderzoek naar stilte, rust en verstilling in de stad

Geert Peymen en Pleuntje Jellema



Research I Inspiration: sonic shelter

A place where people find silence and peace in a city

## de luwteplek

een ruimtelijk onderzoek naar stilte, rust en verstilling in de stad

Geert Peymen en Pleuntje Jellema



Research I Inspiration: sonic shelter

A place where people find silence and peace in a city

A place where people really connect with the environment around them

## de luwteplek

een ruimtelijk onderzoek naar stilte, rust en verstilling in de stad

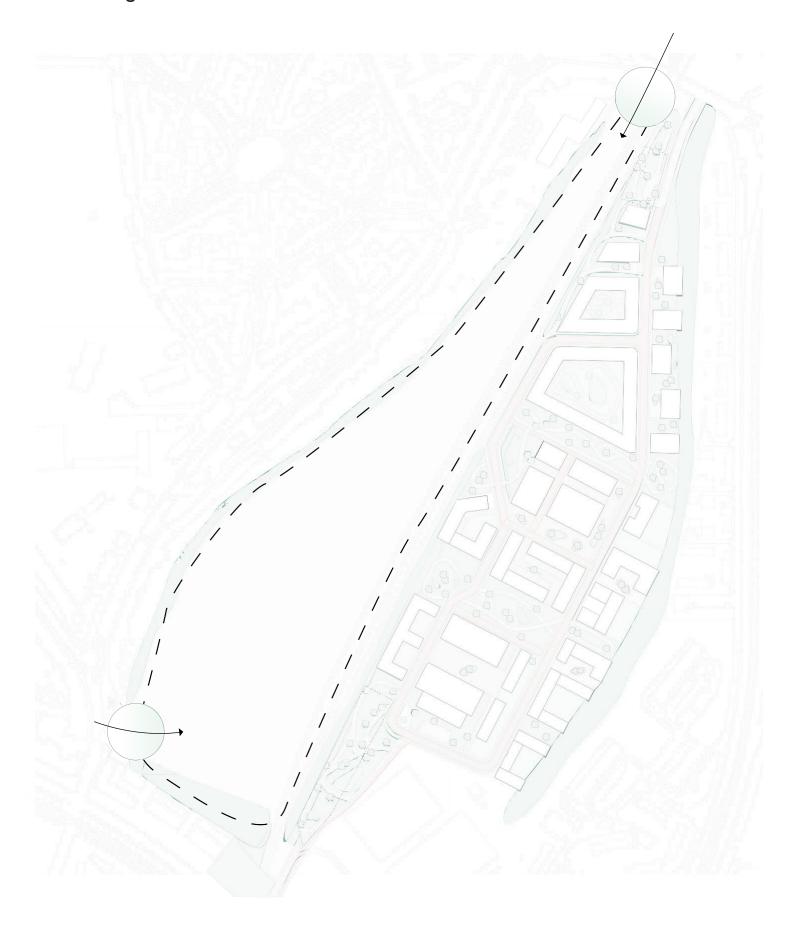
Geert Peymen en Pleuntje Jellema

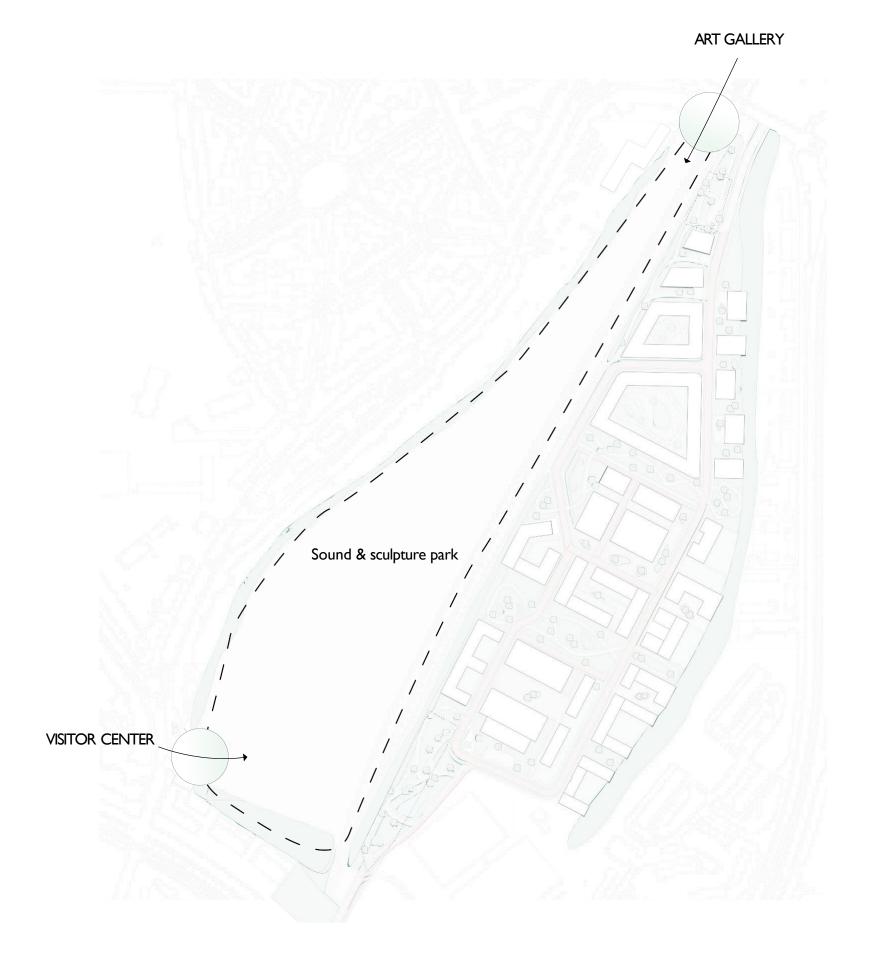


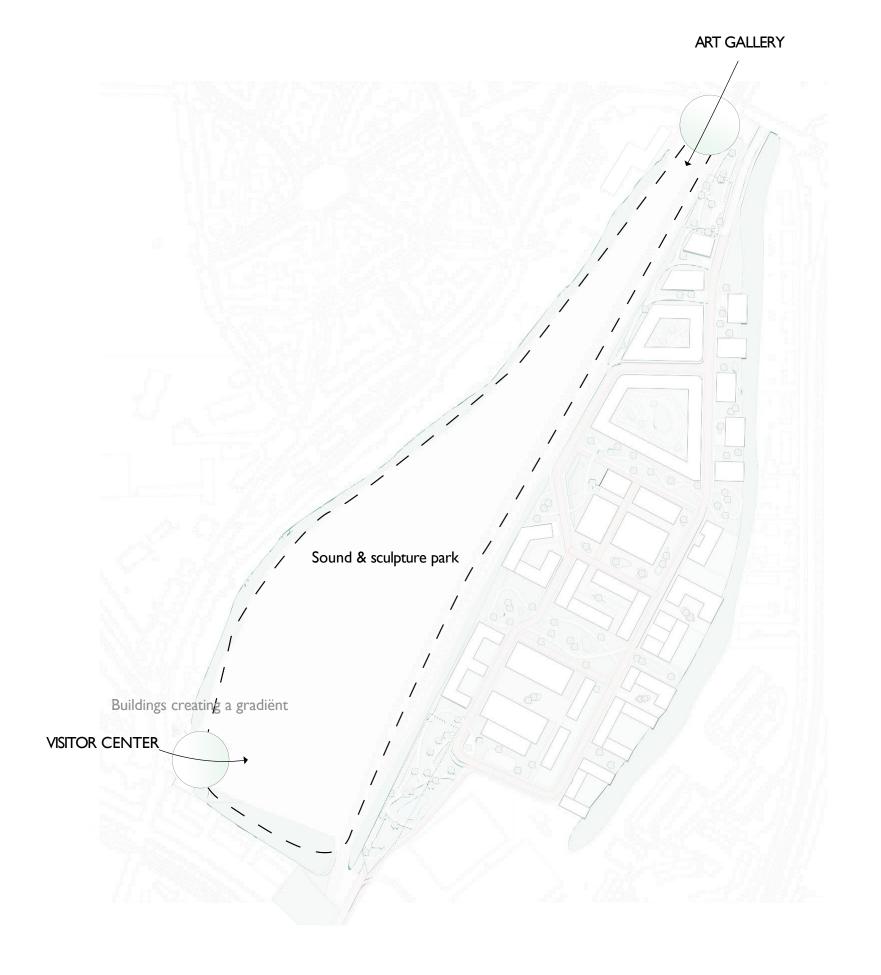










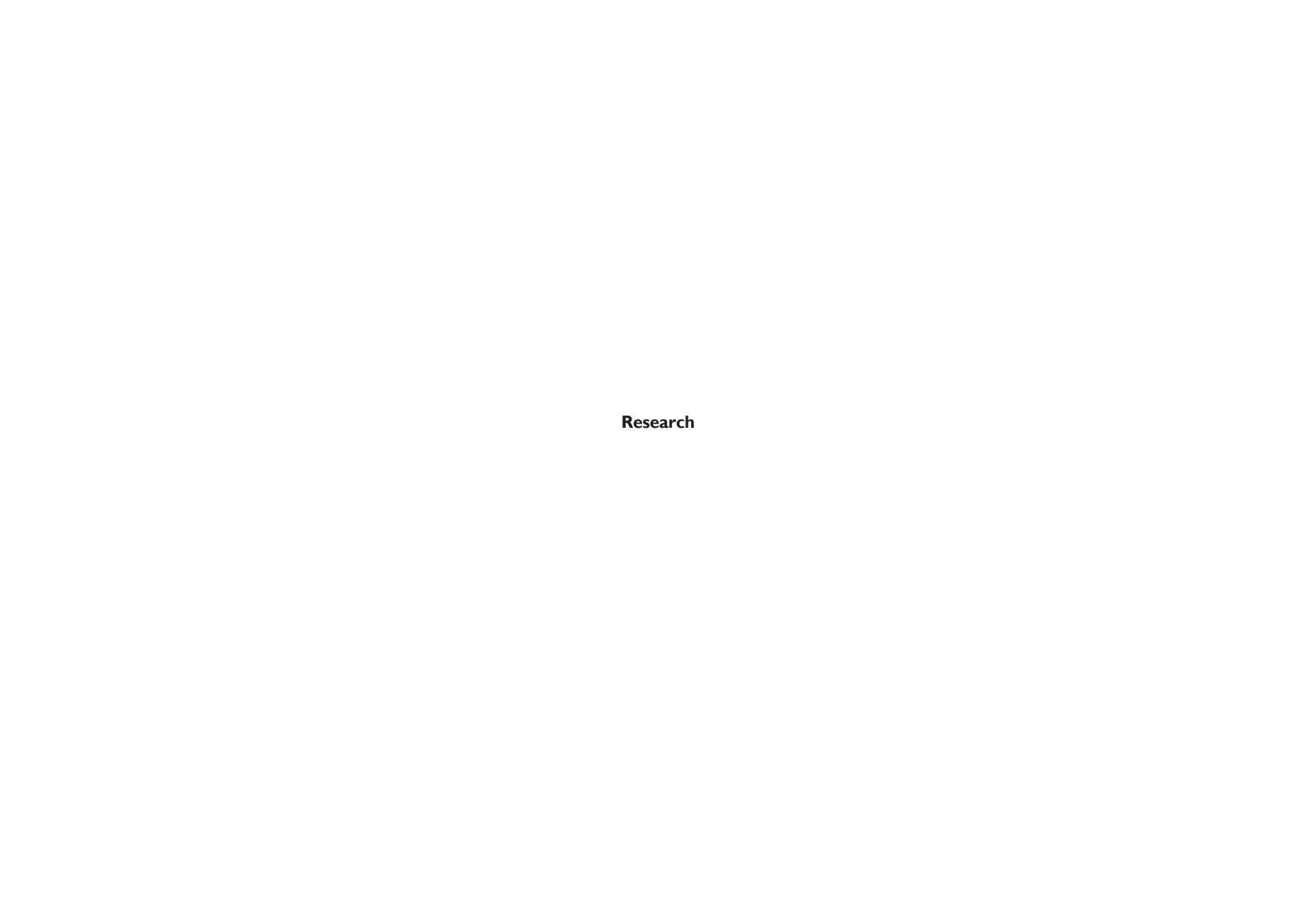


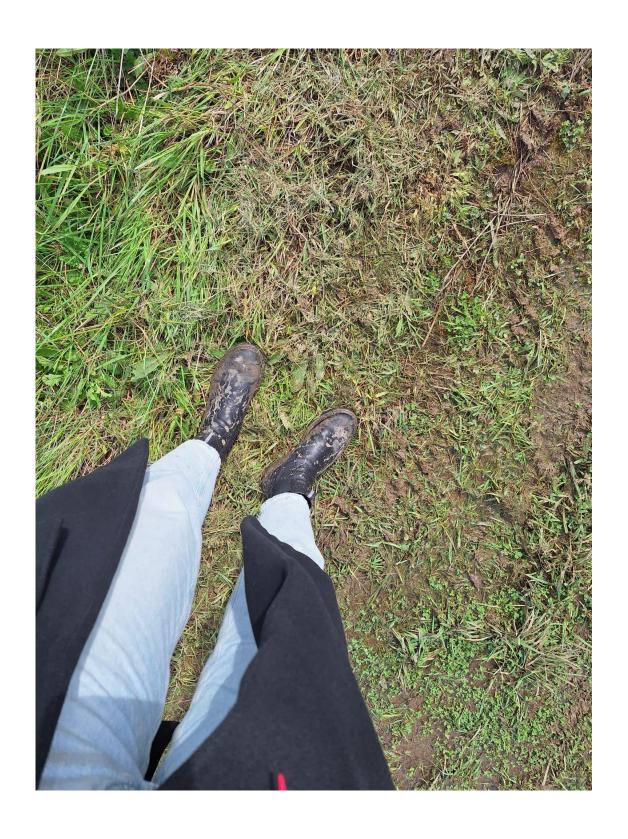
A sonic experience, a place to feel connected to the world around us

Where sounds will be emphasized in the visible (art) and invisible



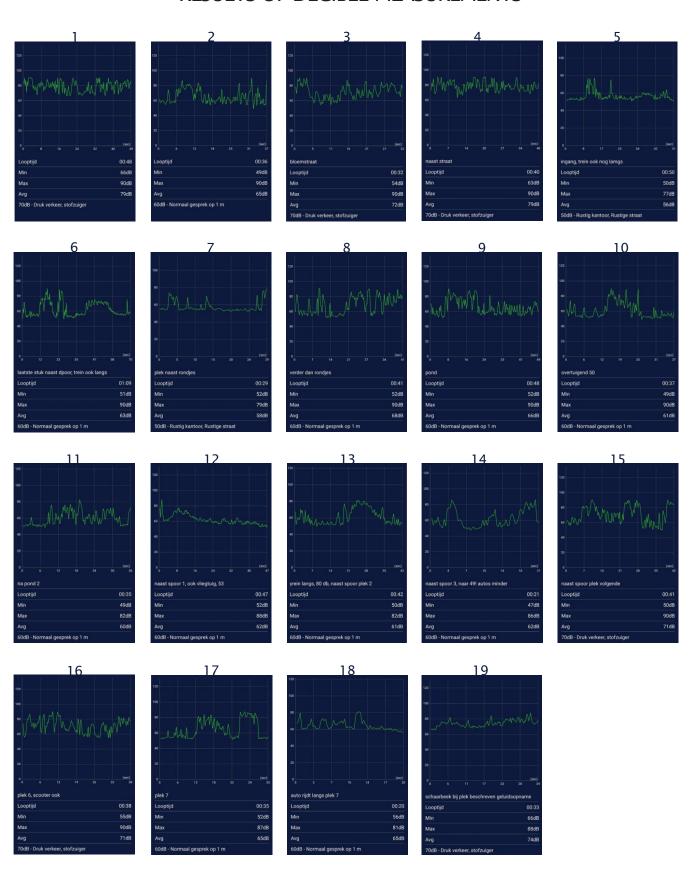


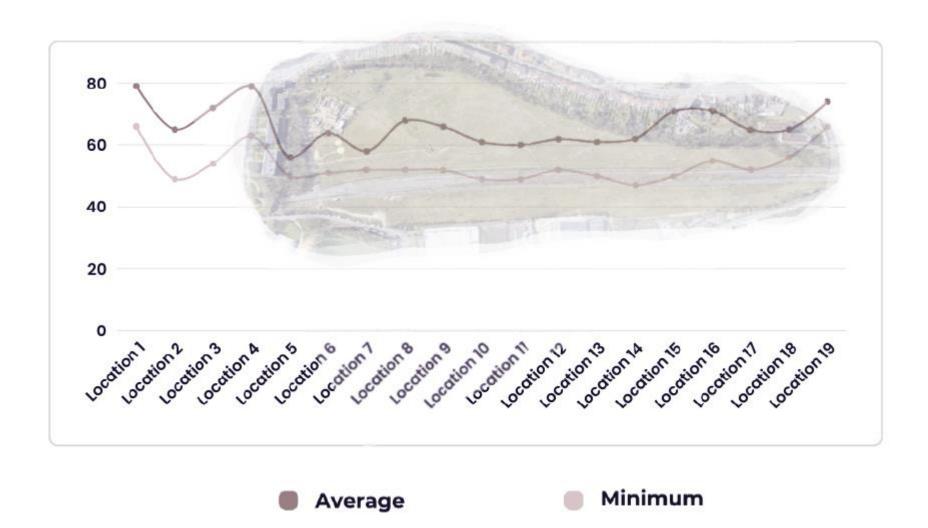






#### RESULTS OF DECIBEL MEASUREMENTS





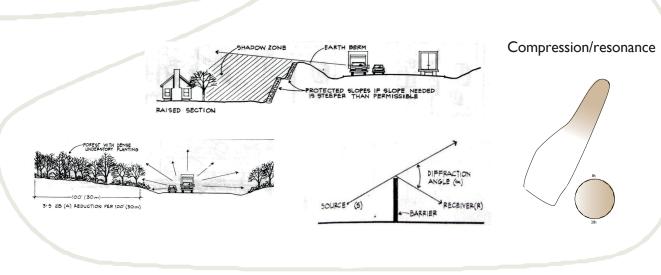
# Layers of sounds Orchestra of birds Train Passing by Footsters 11,1111111 Slowly > 70bpm Traffic in background \$\frac{1}{2} \frac{1}{2} \frac{1}{2}

Airplane very low

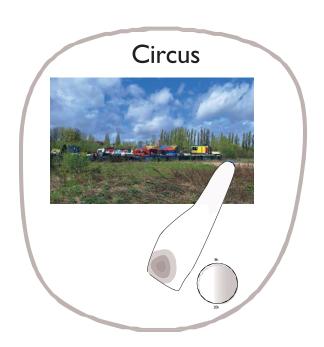
# Airplanes crossing Flightpaths Brussels Calabidiscontest door vigitatings roof brasels Arport Meassurements on site

#### Acoustic concepts











#### BIRDS



Habitat: Dense undergrowth and low trees, breeds on or near the ground in forests, urban areas, and semi-open landscapes with trees and bushes.

Breeding: Dense vegetation or near the ground. Diet: Insects, larvae, and berries, foraging restlessly.

Migration: From August to October to winter in Spain, Portugal, or North Africa, returning between April and May.

Habitat: Forested areas with old deciduous trees, nesting in tree hollows. In urban and village settings, prefers nest boxes, parks, and gardens, and winters in reed beds. Breeding: From late March to July, nest in tree hollows or nest boxes

Diet: Insects, their larvae, spiders, and other invertebrates. In winter, consumes seeds (birch, larch, hornbeam, Spanish oak), peanuts. Found in reeds during winter to search for insects in the stems. Often forages high in trees, on thin branches and

Migration: Resident year-round, with more activity between mid-September and mid-November (winter residents).







Breeding: In low dense shrubbery from mid-April to late June

**Habitat:** In forests and semi-open landscapes with rich undergrowth, especially favoring brambles. Also found in parks and gardens. Prefers older trees and shrubs in natural forest settings. Often heard singing in spring but not easily seen. Flies infrequently, mainly vocalizes.

Diet: Insects during breeding and berries and fruits throughout the rest of the year.

Migration: Mid-August to mid-October to South England or the western Mediterranean, returning early to the Netherlands, even in March.

Breeding: From April to July, in tree hollows, walls, or dense climbing plants, with a messy construction of grasses and leaves

Habitat: Not found in treeless areas. Prefers mature forests, gardens, and parks, especially where bushes and herbs are abundant.

Diet: Insects, spiders, berries, and seeds

Migration: Spain and Portugal from August to November, or stay in the Belgium. Lasts until late April, mostly at night.



#### Black-headed gull



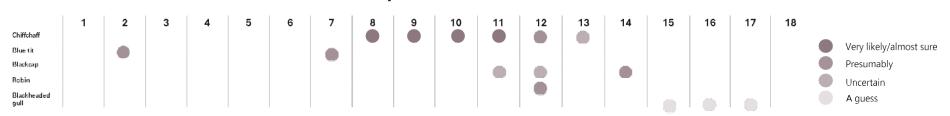
Habitat: Inland near freshwater and also in coastal areas. Forages in diverse landscapes, especially water-rich grasslands, and tidal flats. Found widely outside breeding season, including in farmland and urban areas.

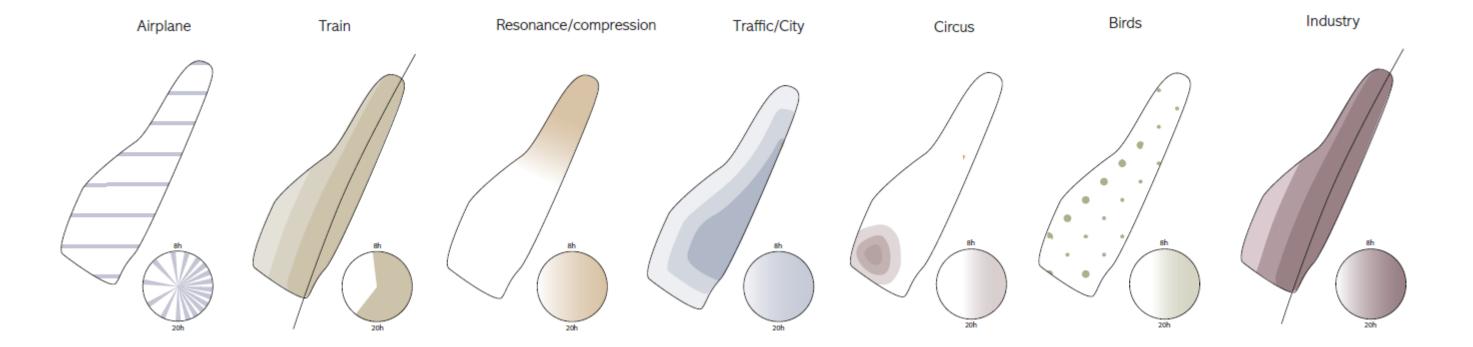
Diet: Insects, fish, and scavenged scraps. Known to steal food from other birds and probe mudflats for invertebrates.

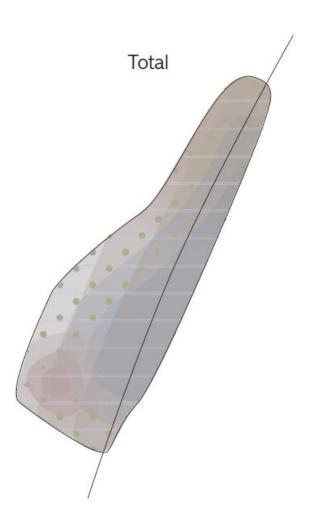
Migration: Southward, or stay, spans from February to April, crossing land and sea day and night.



#### Analysis birds

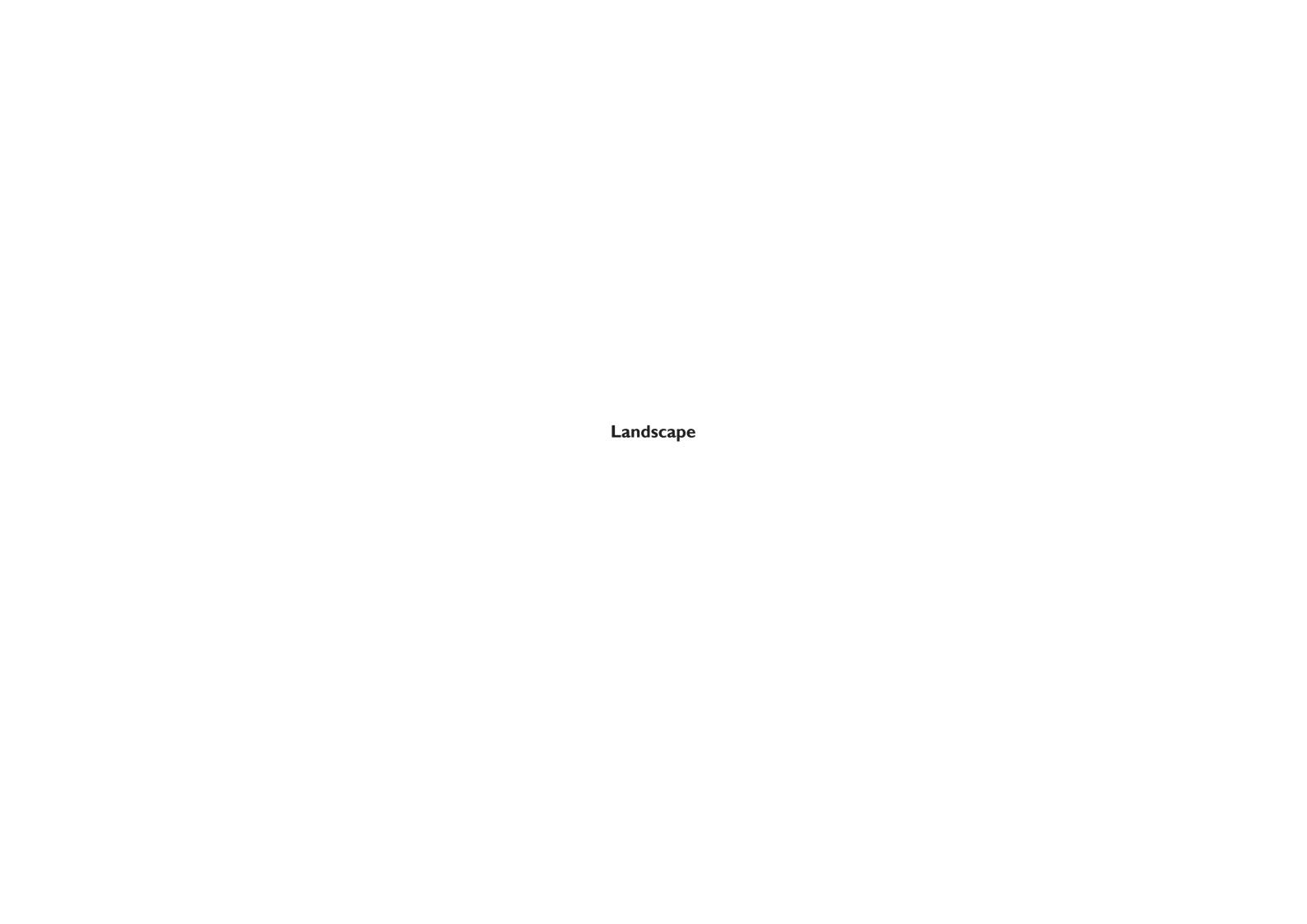


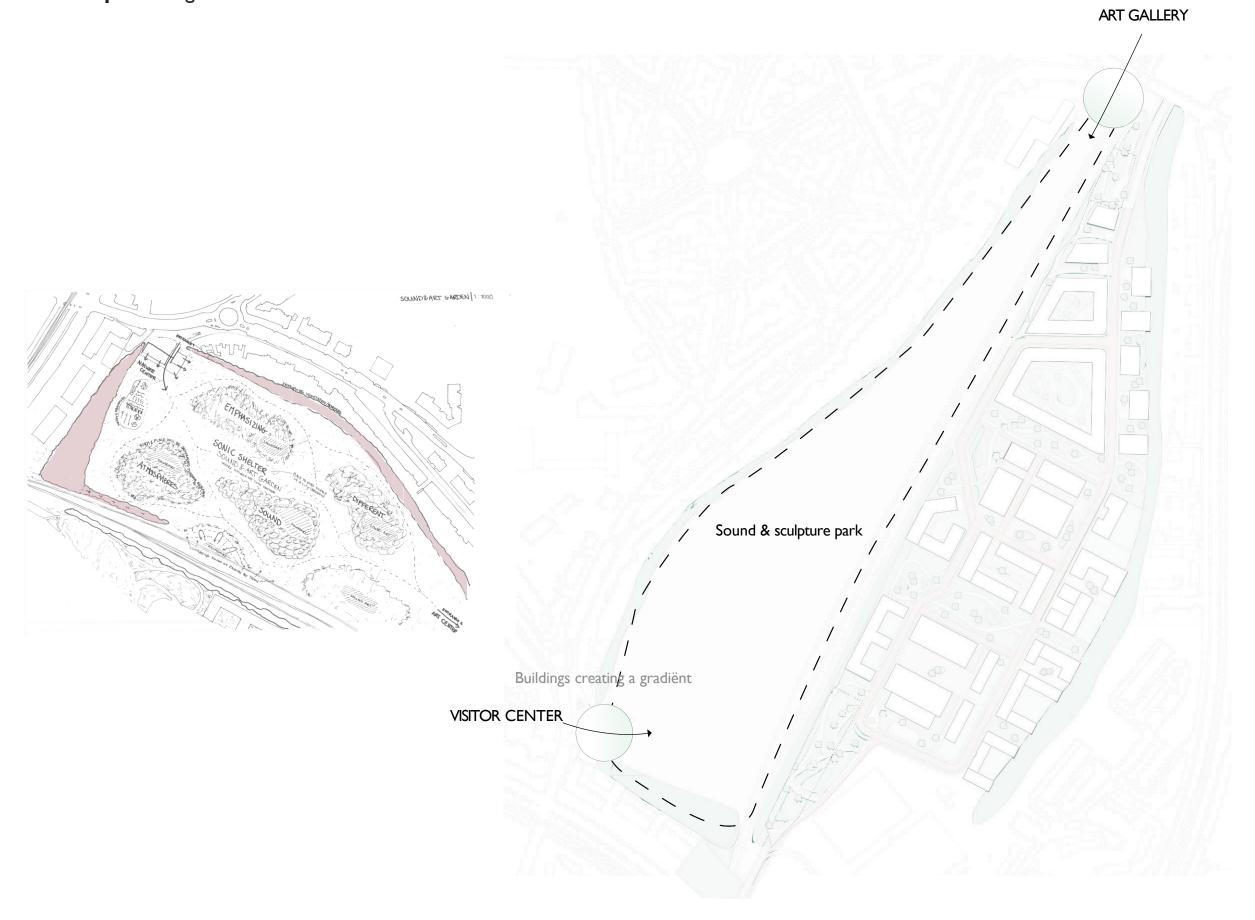




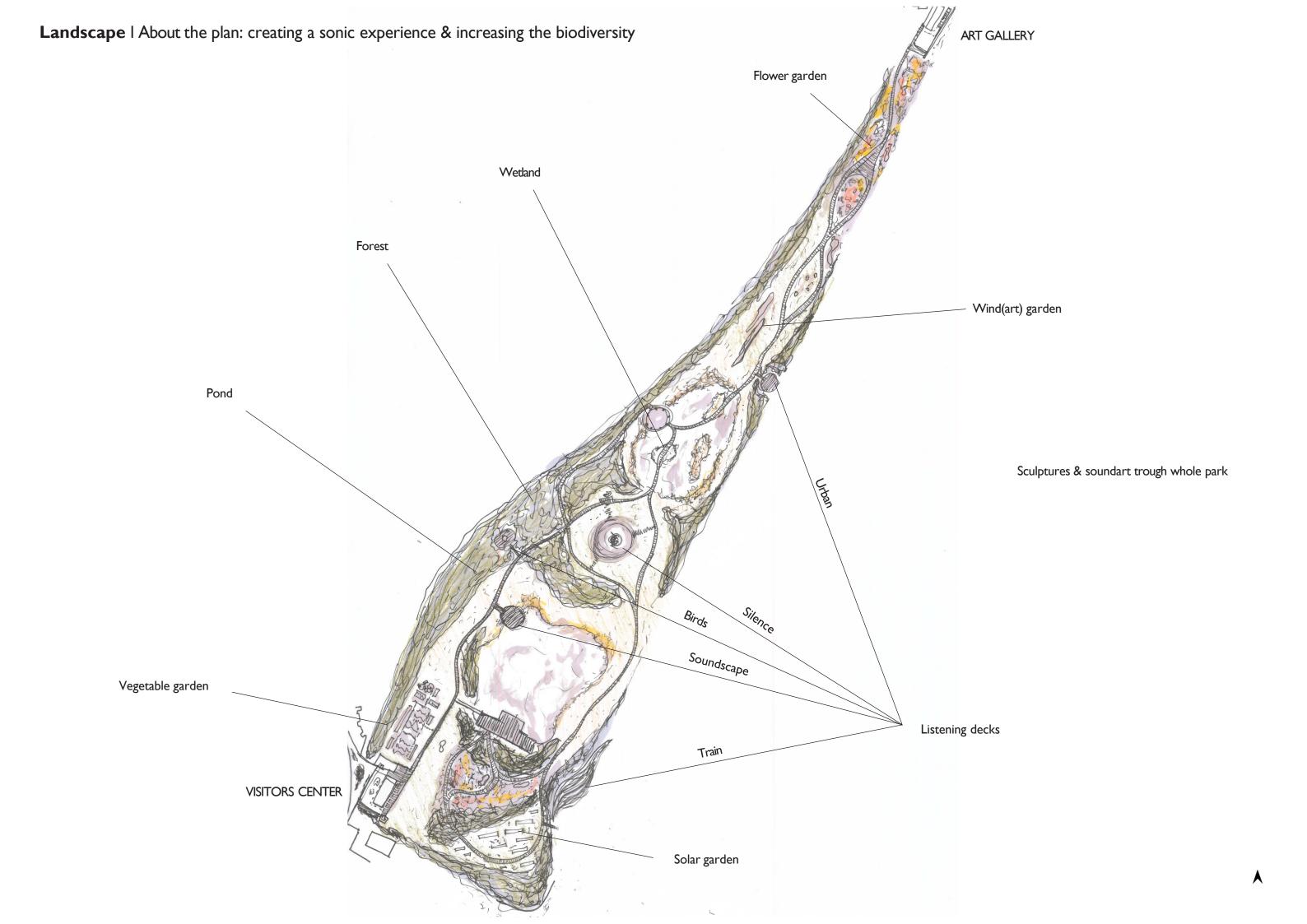
## SONIC PLAN OF THE FRICHE







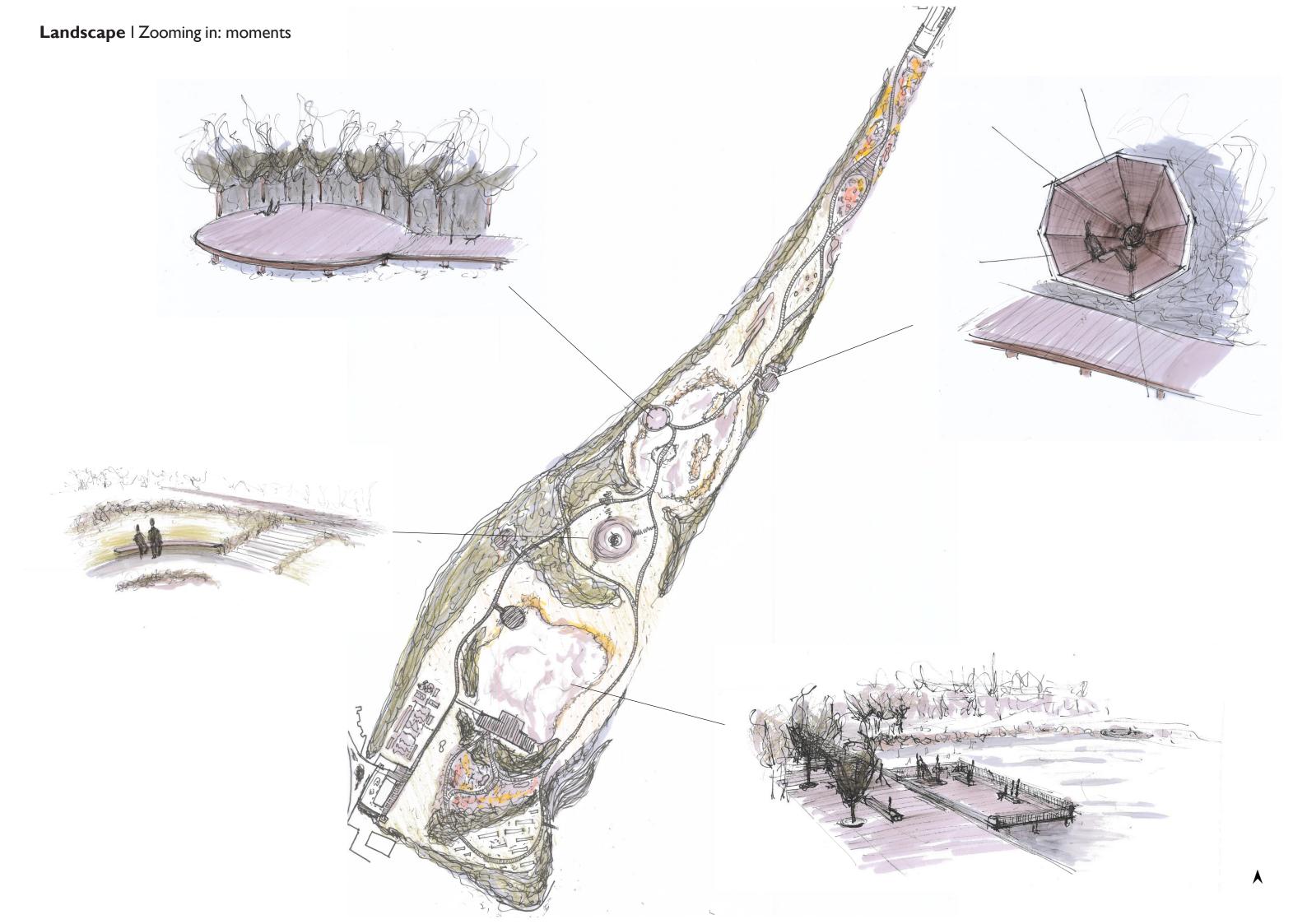










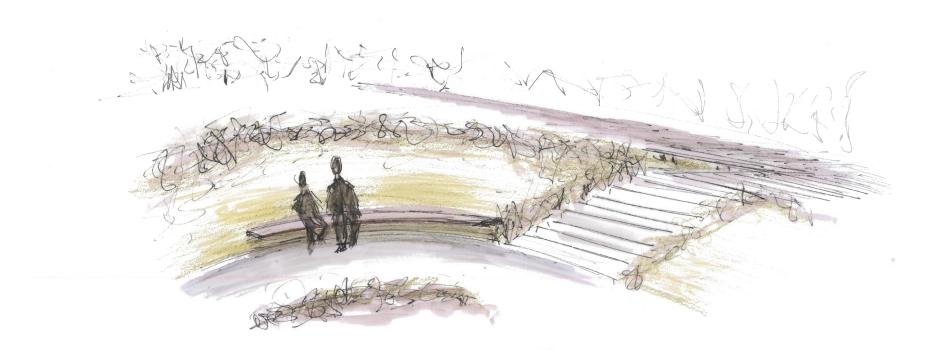




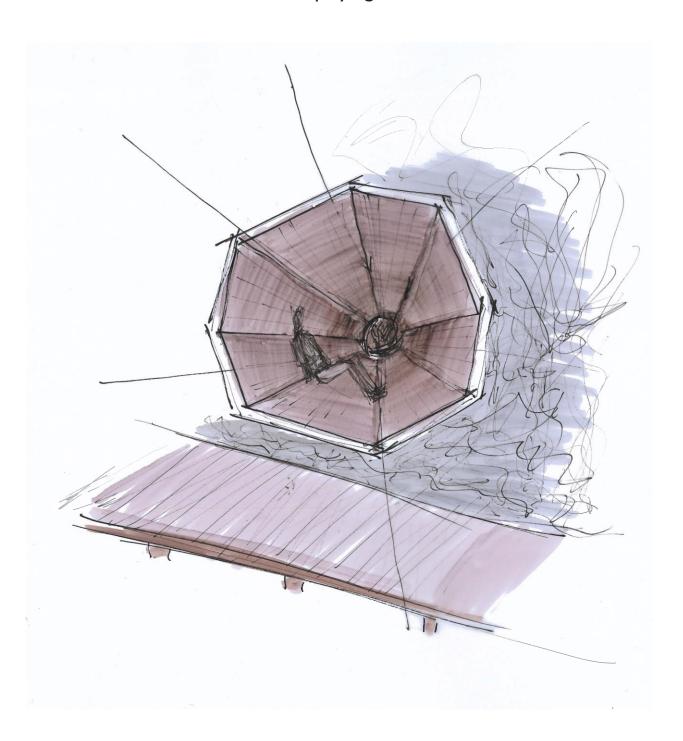




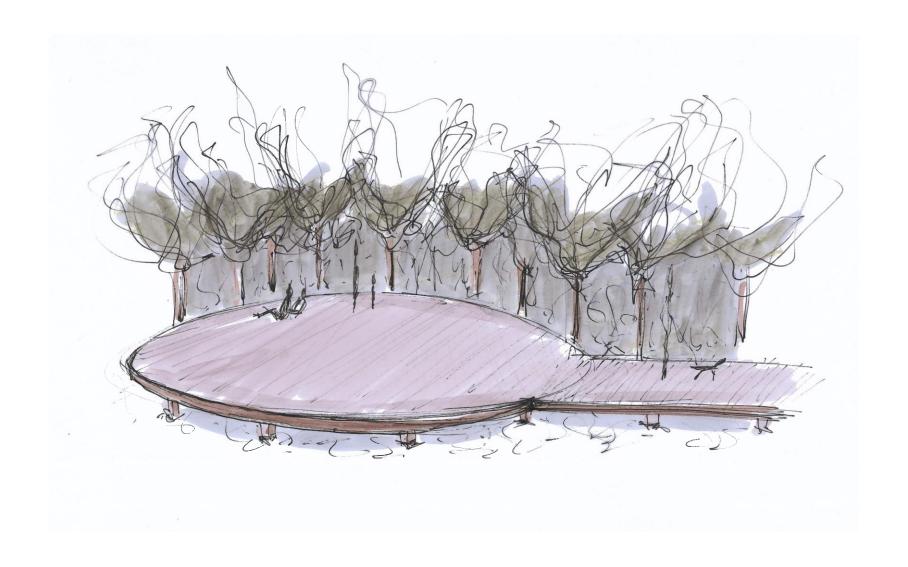
## Quite place

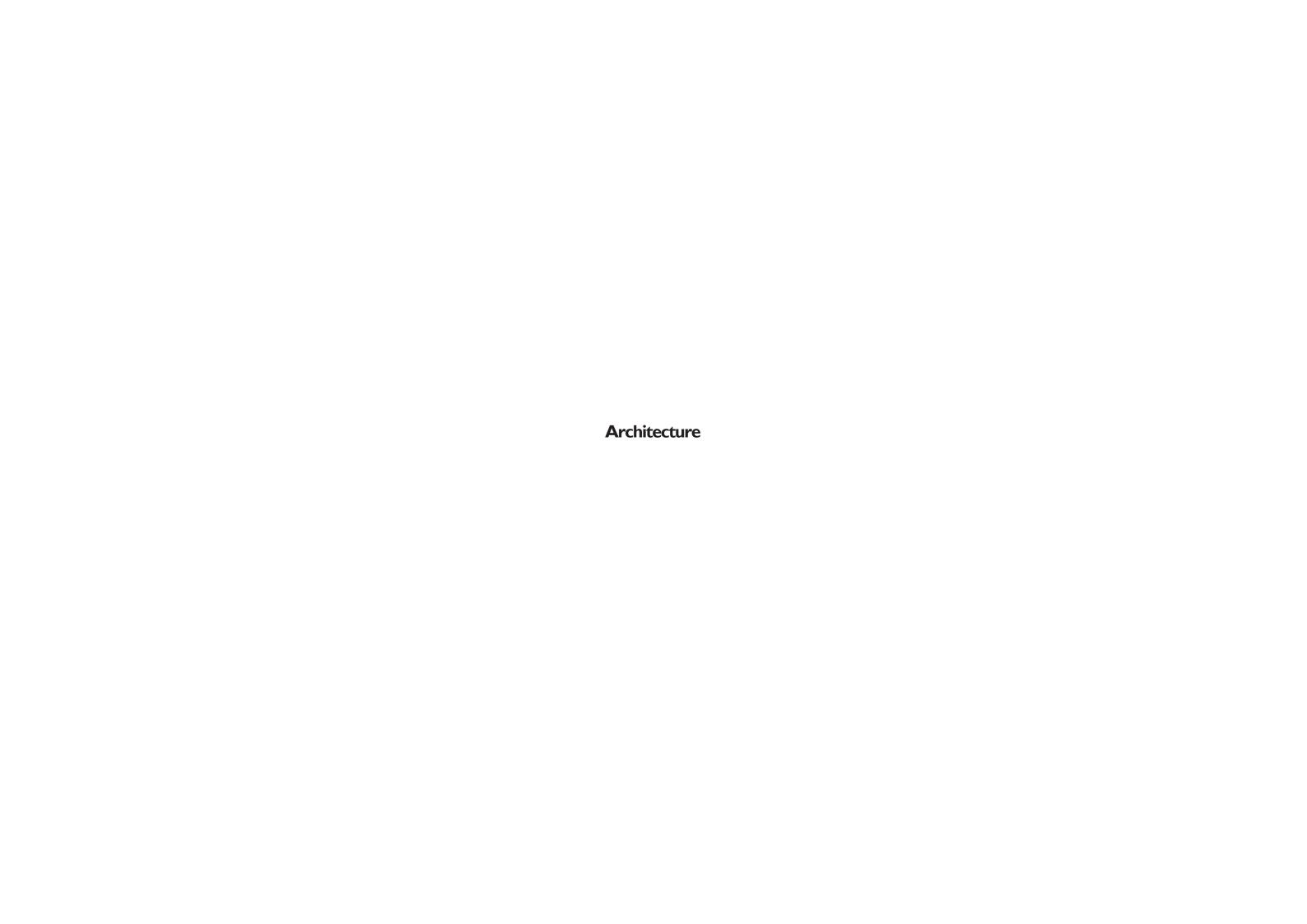


## Amplifying sounds

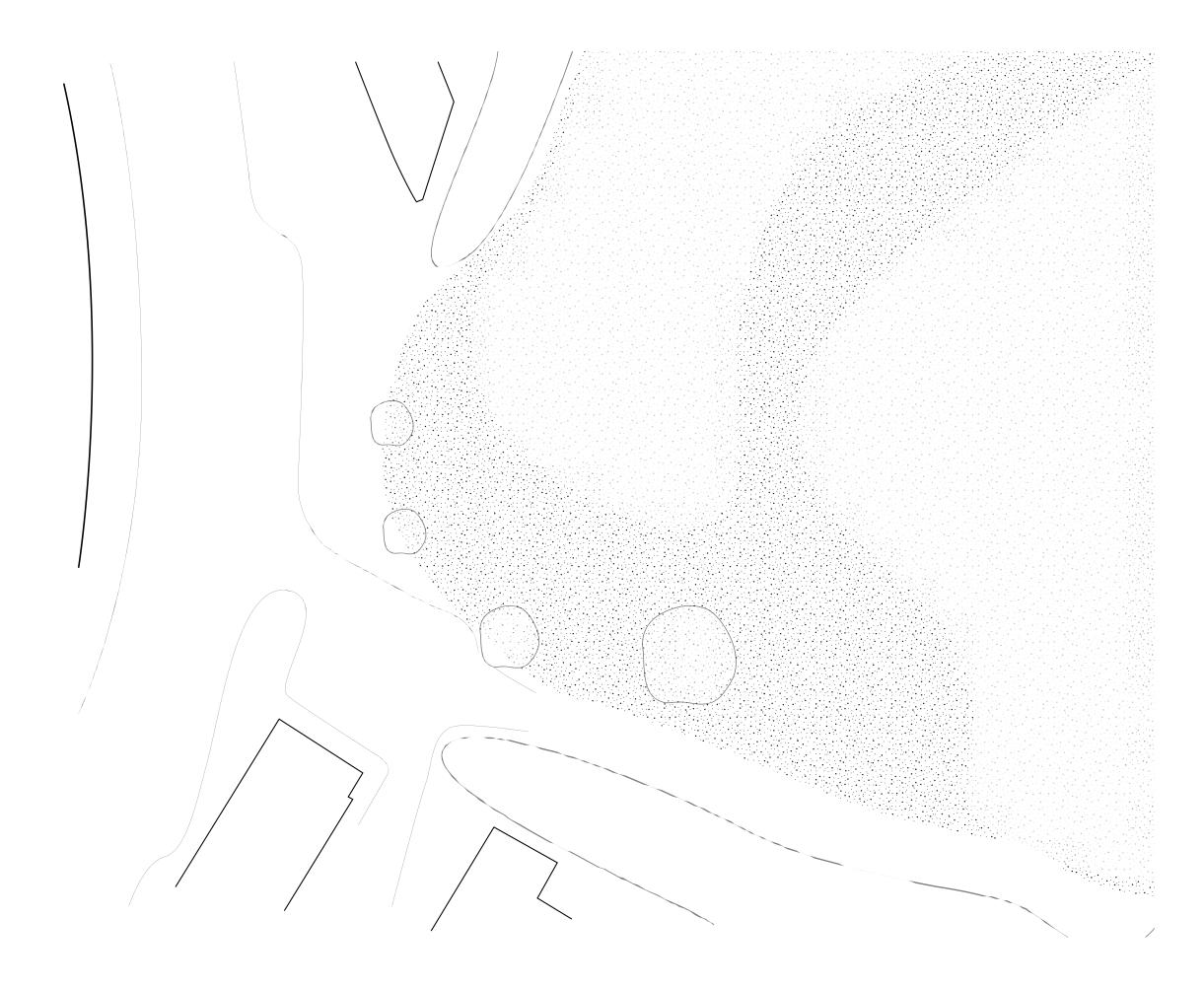


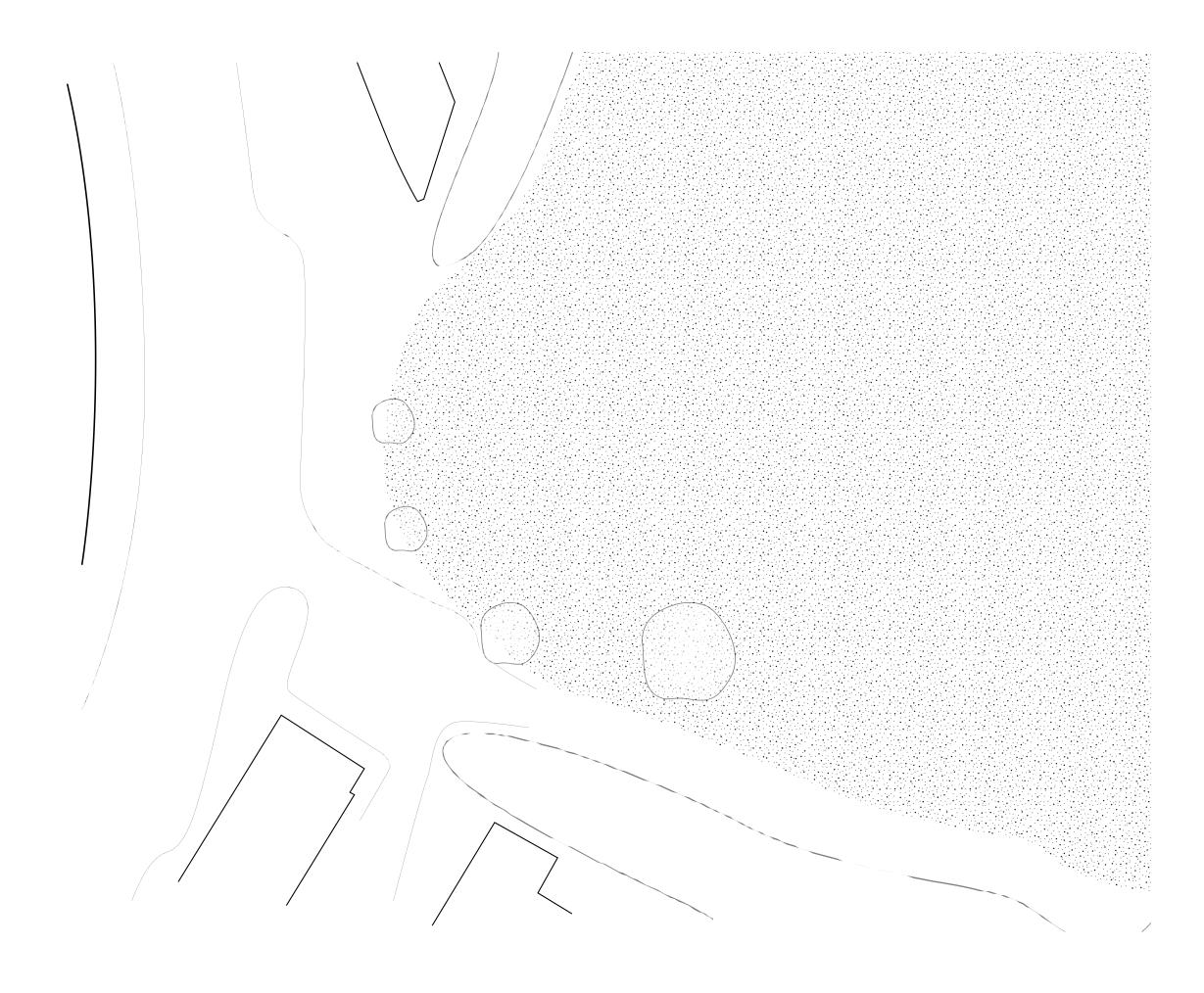
## Listening decks

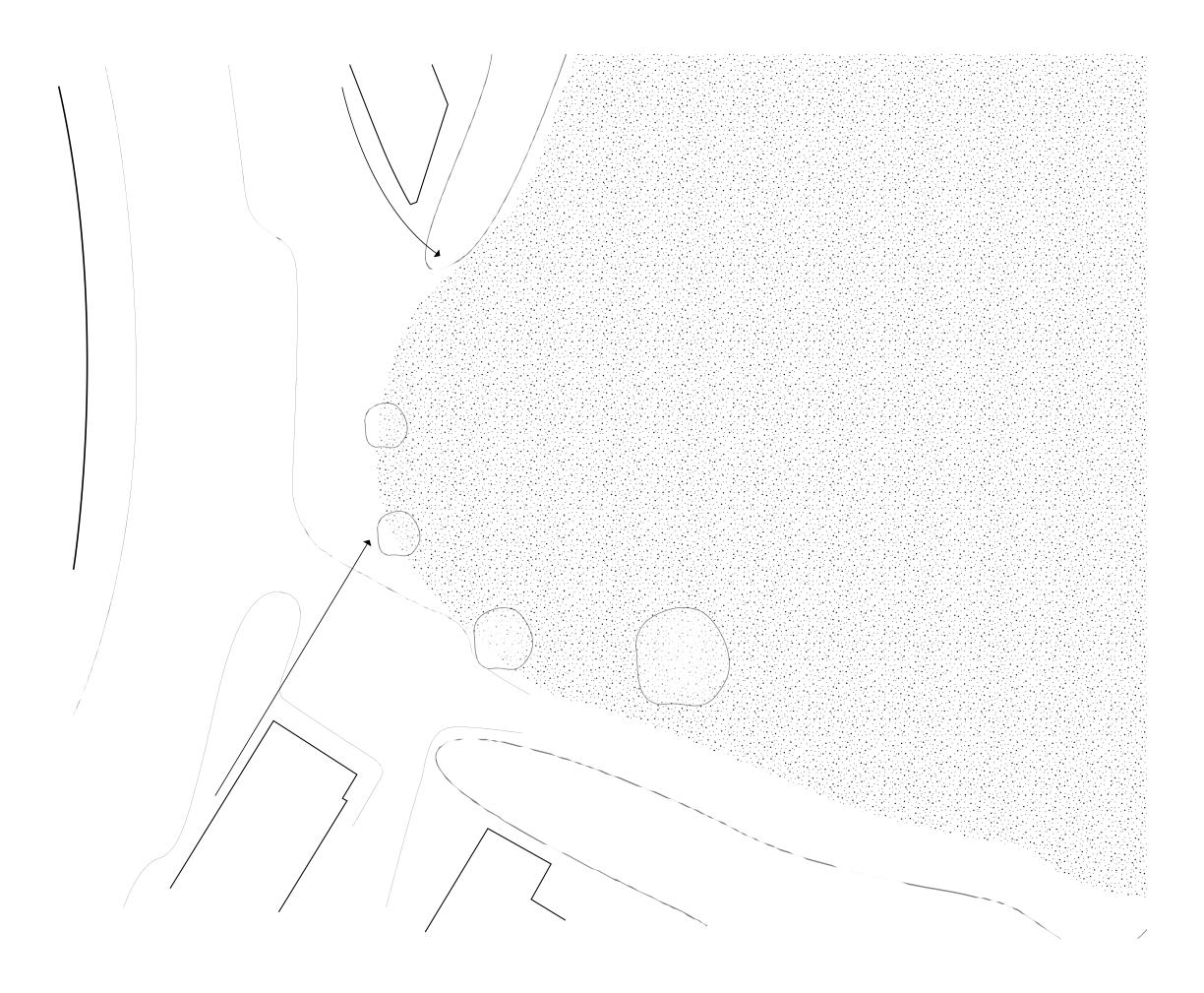




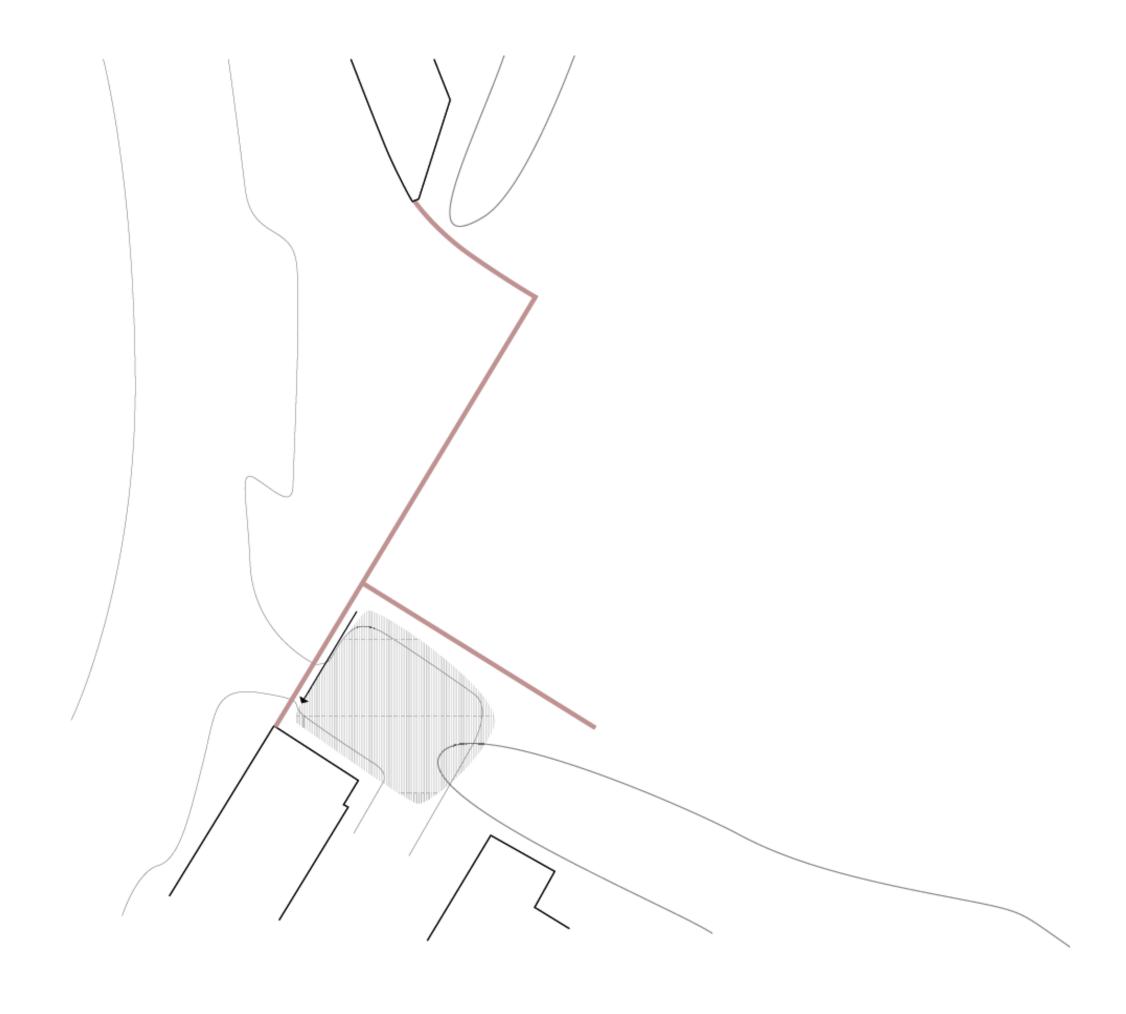
























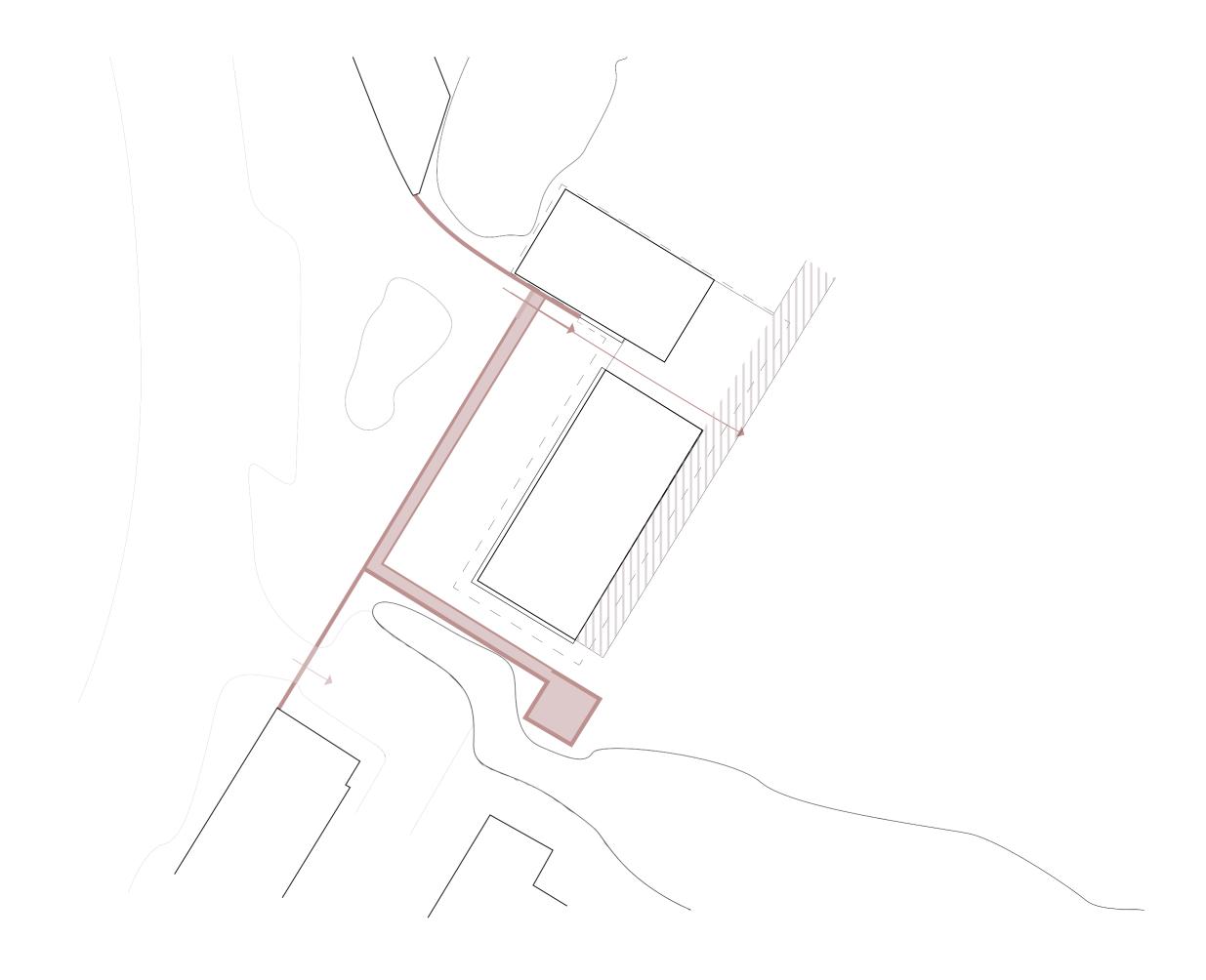


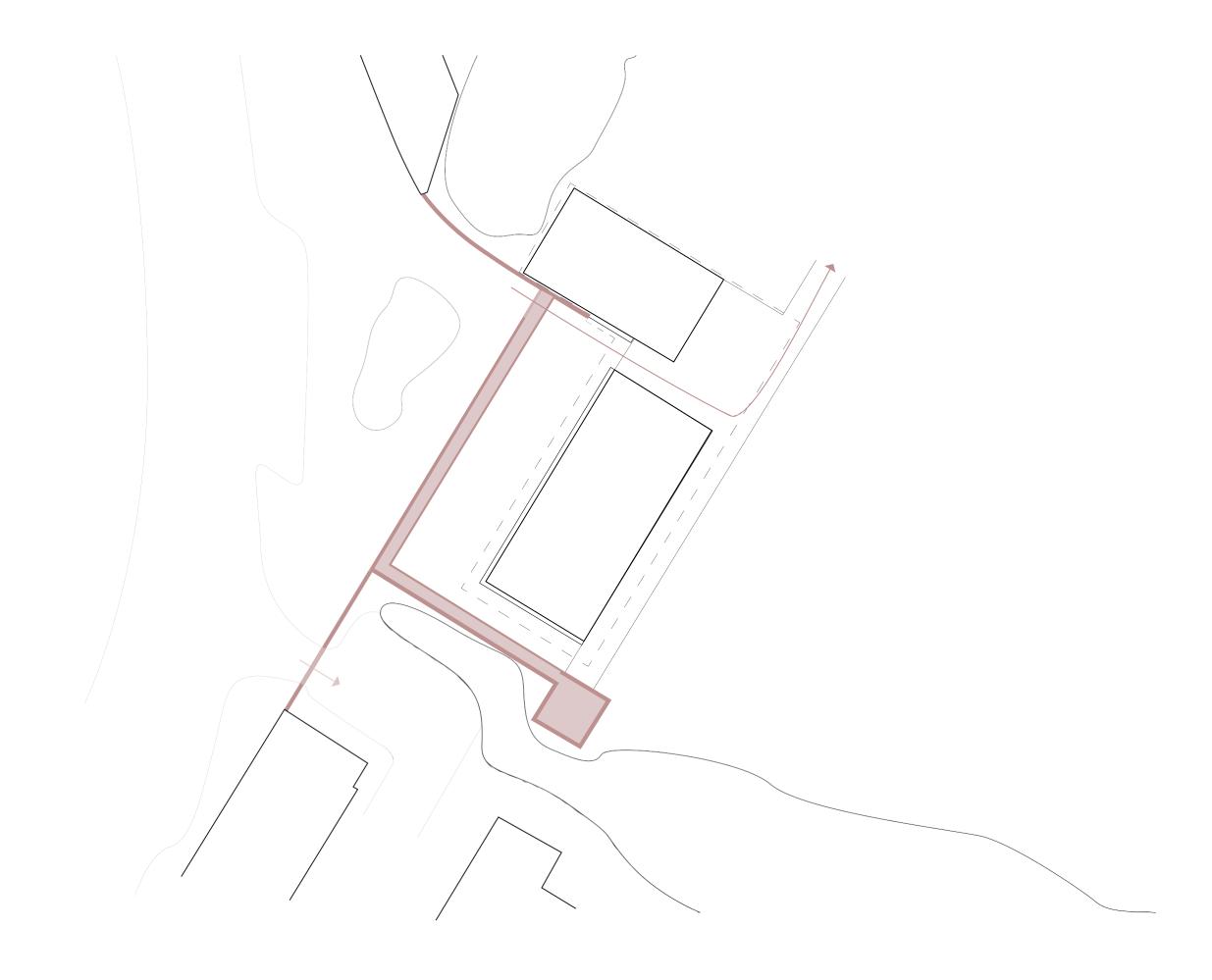


















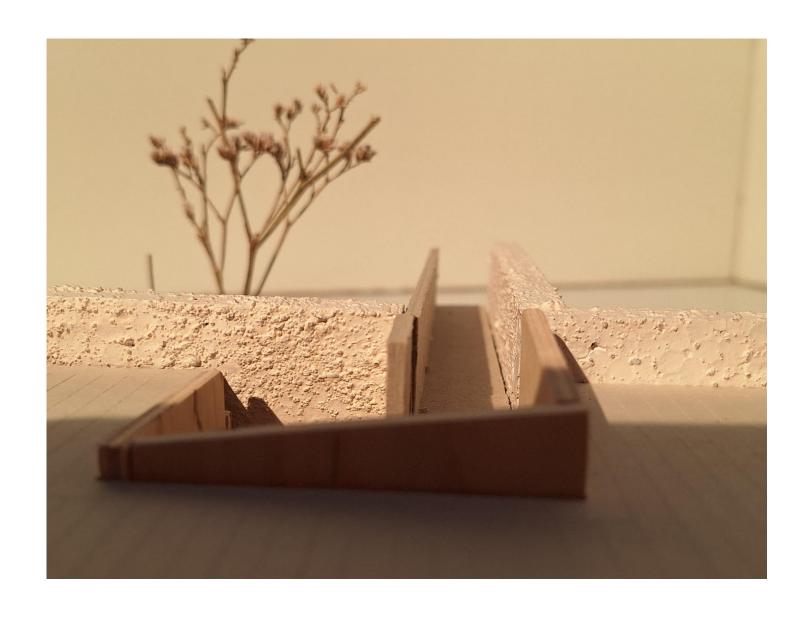












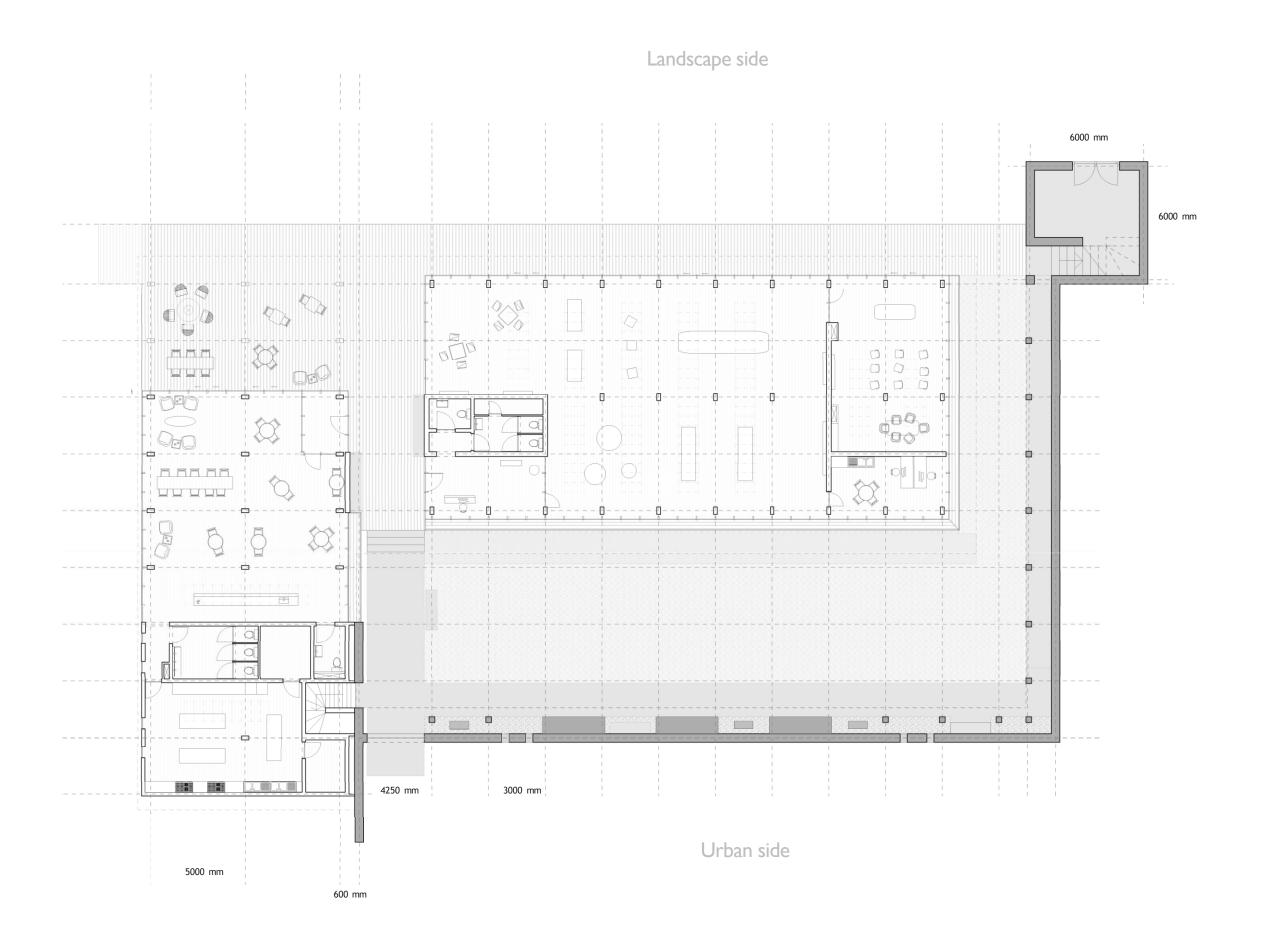


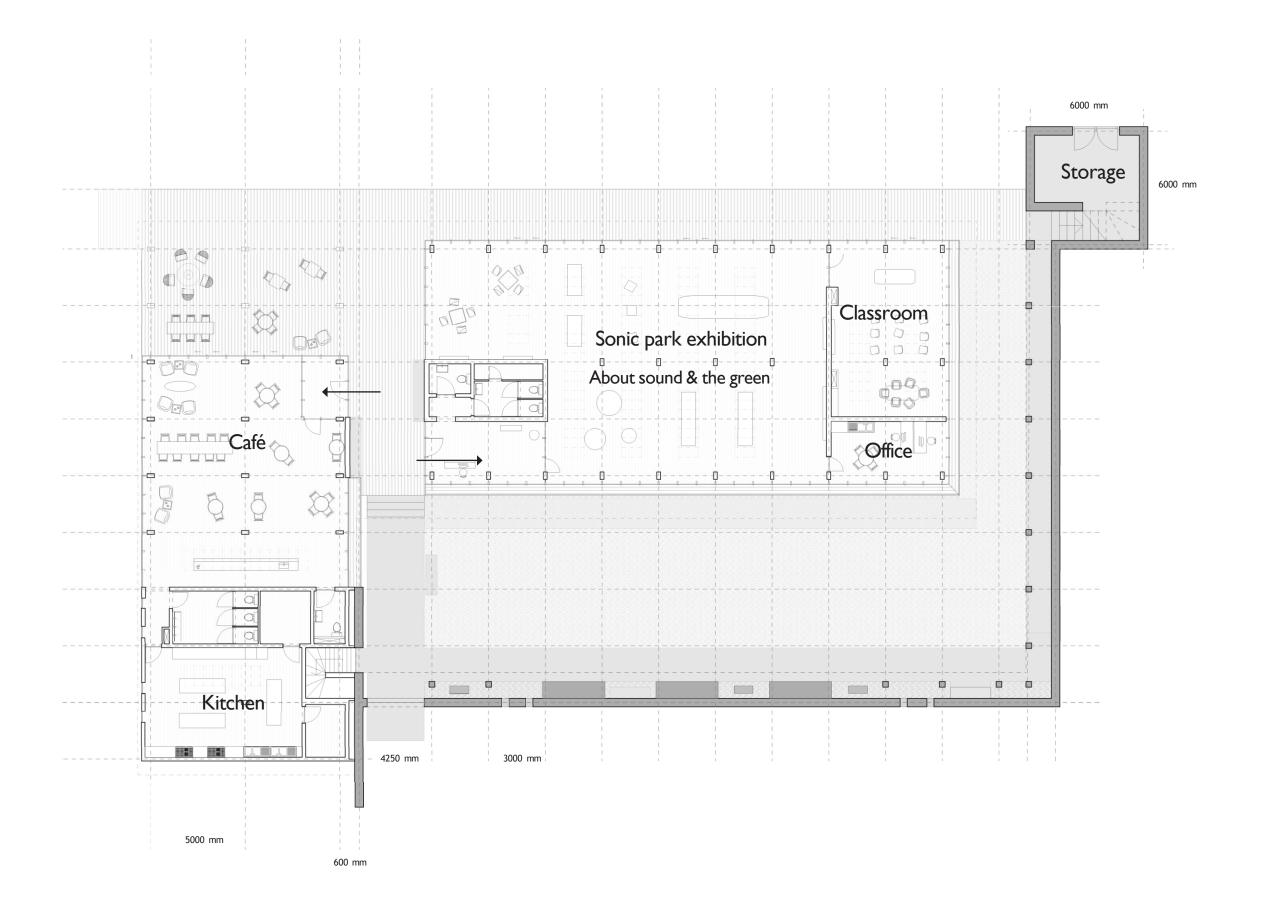


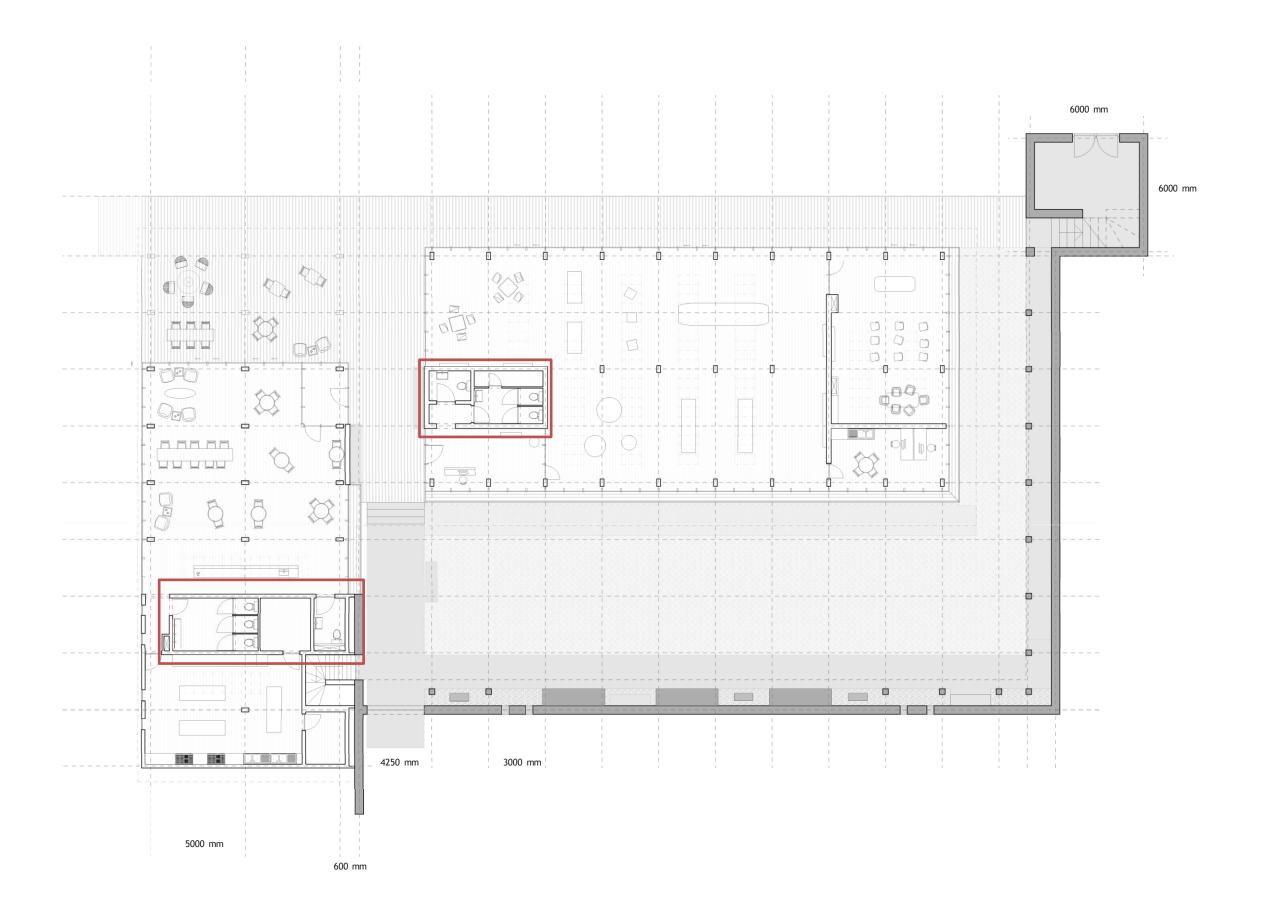


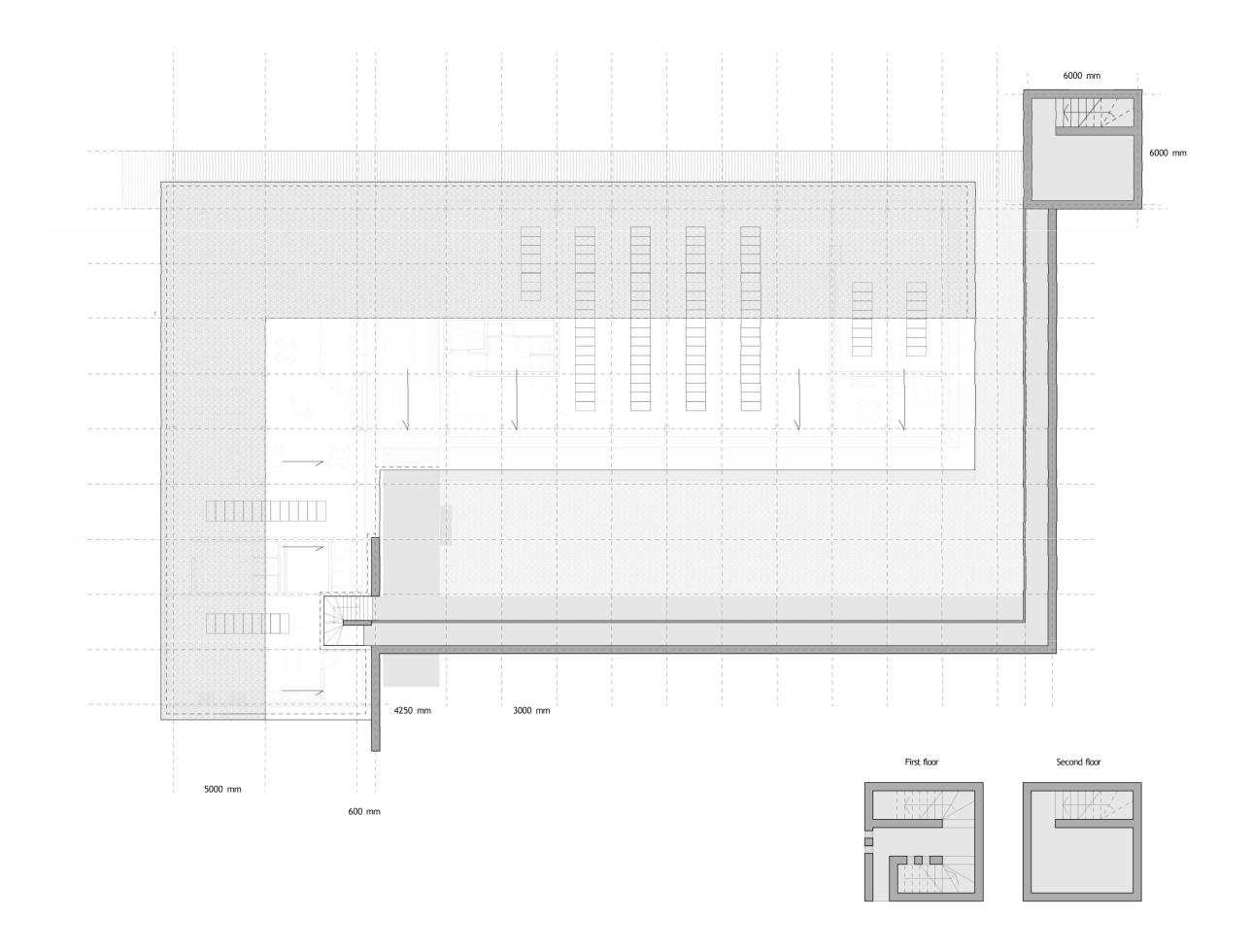


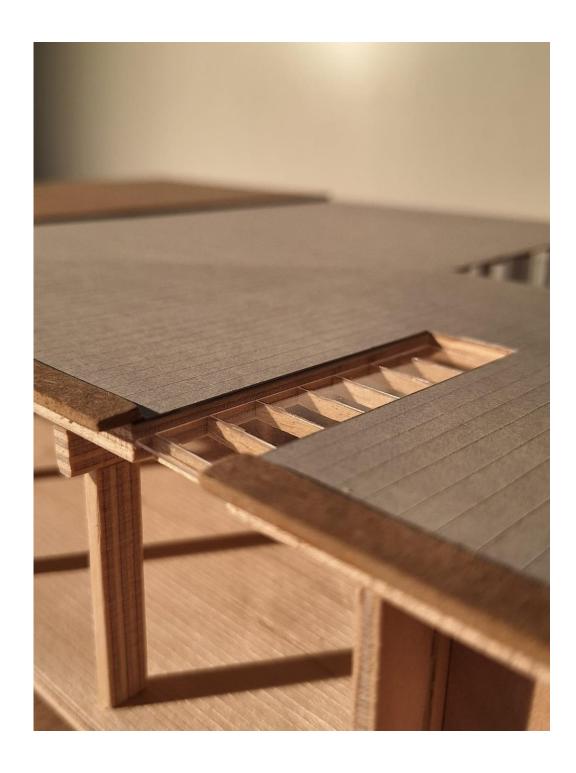


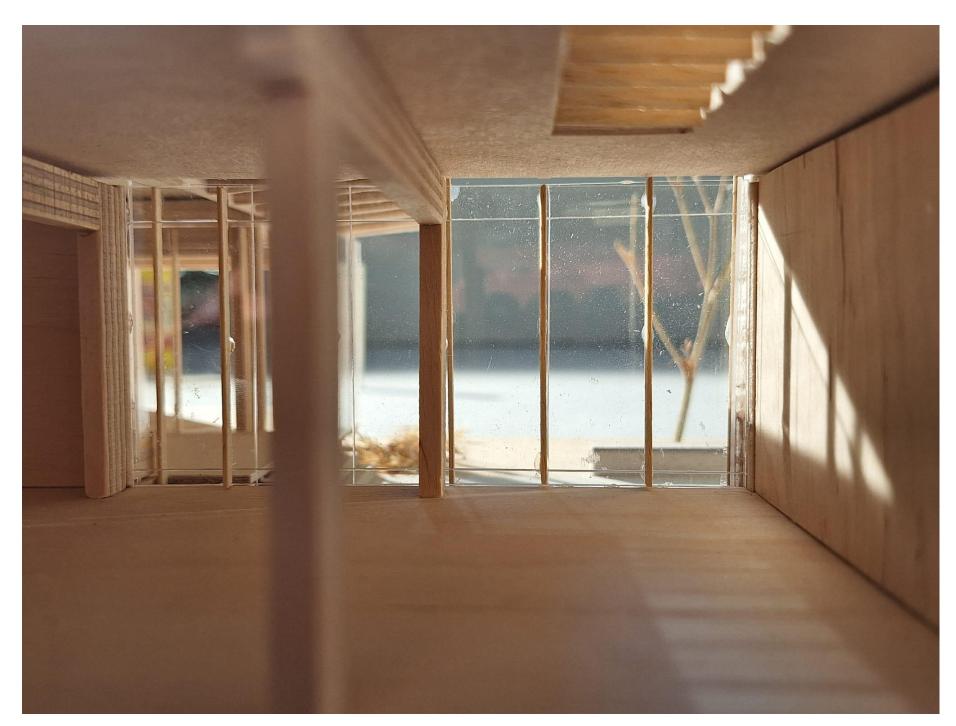




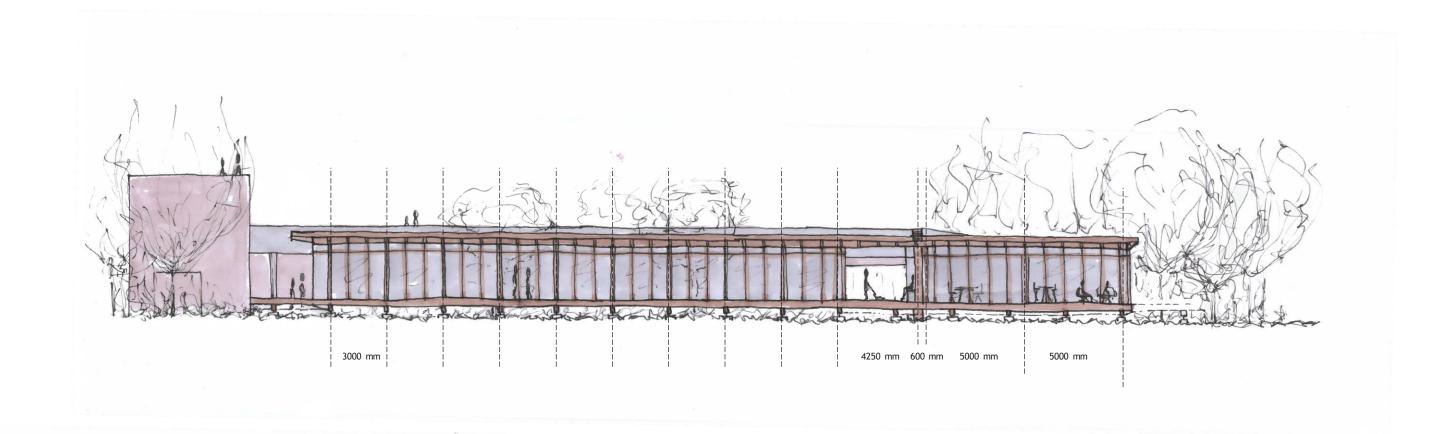


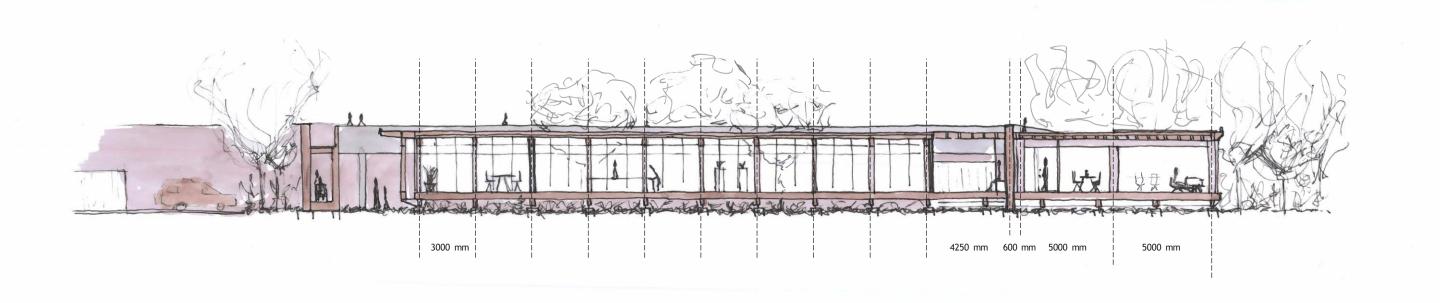


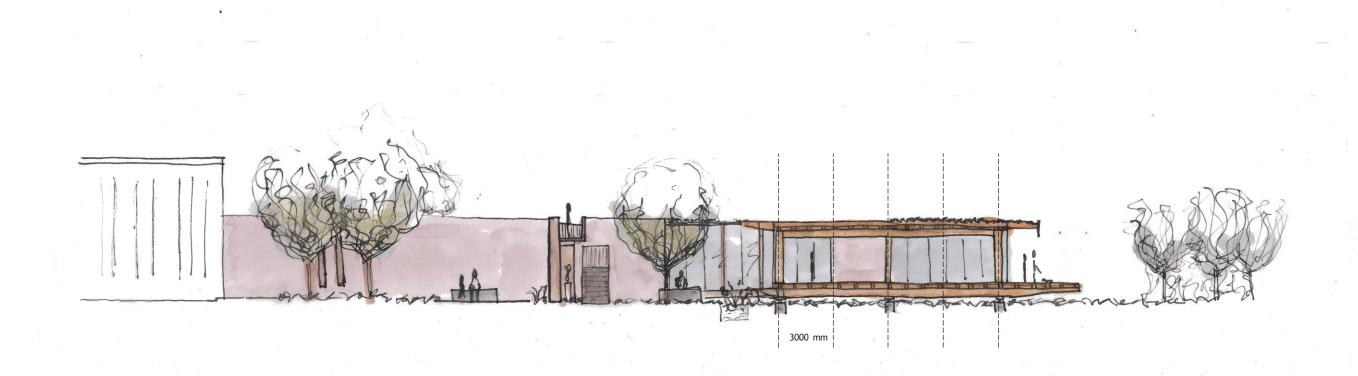


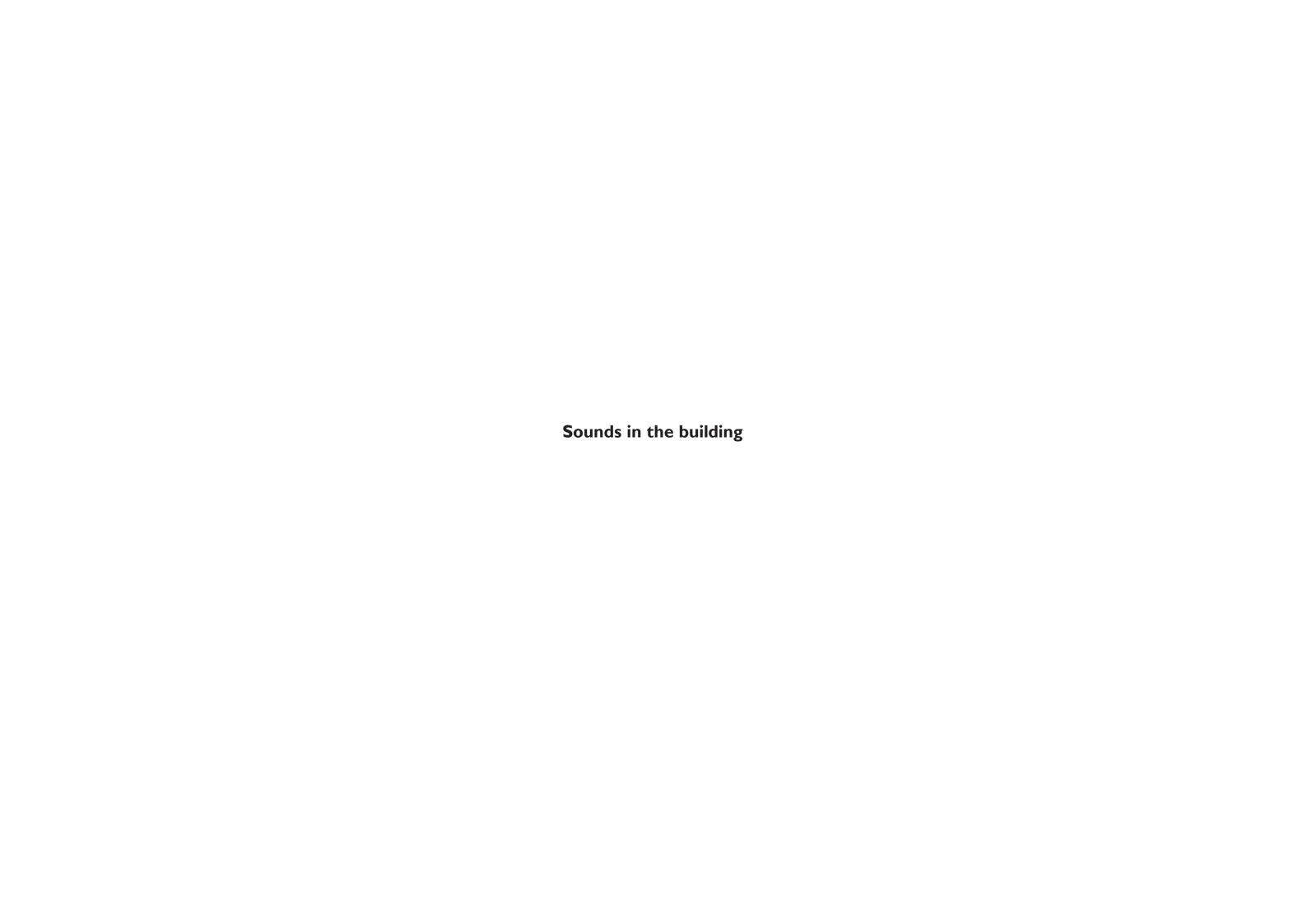


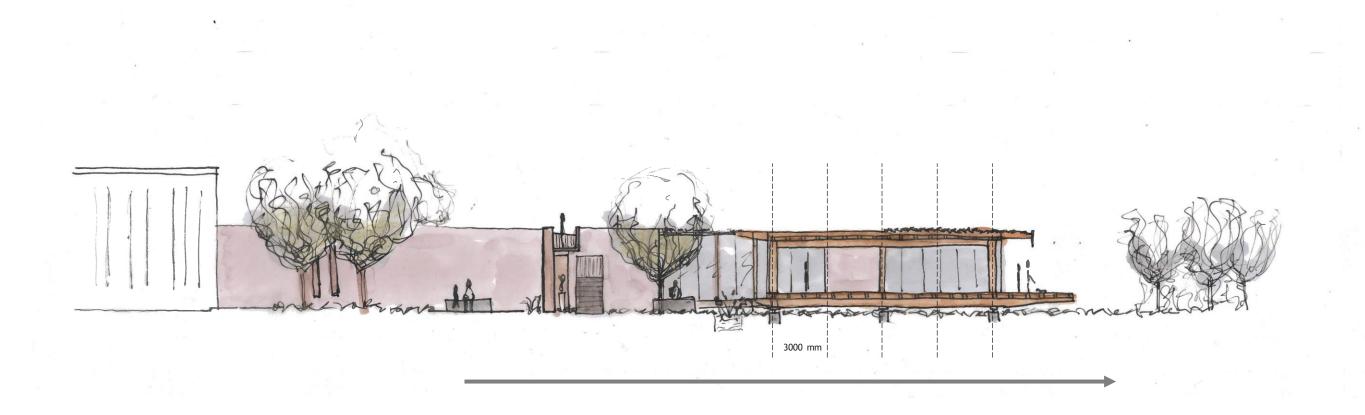
## Architecture | Facade & section

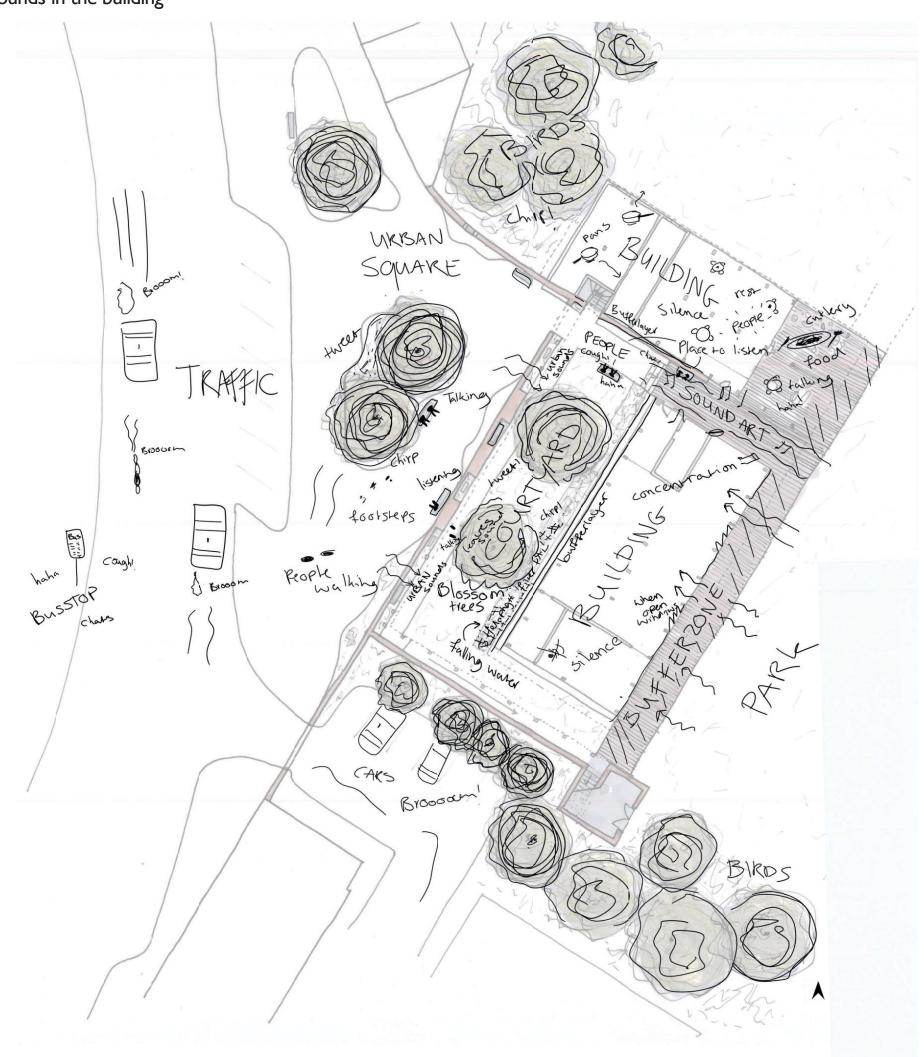


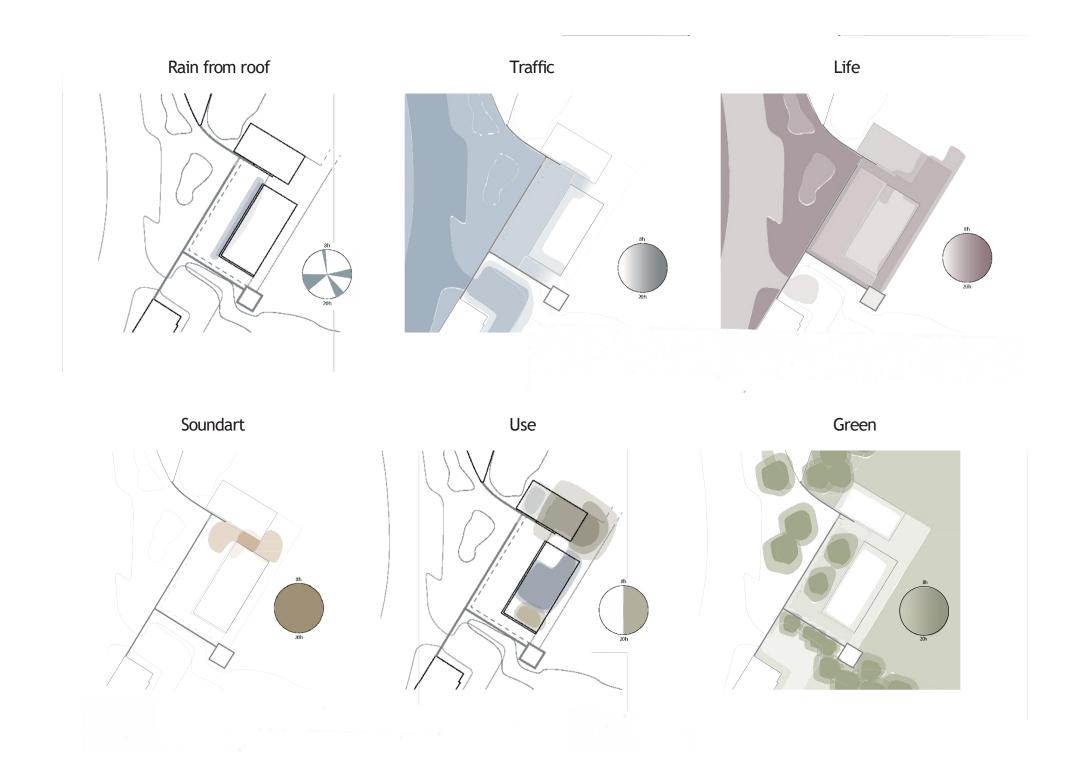
















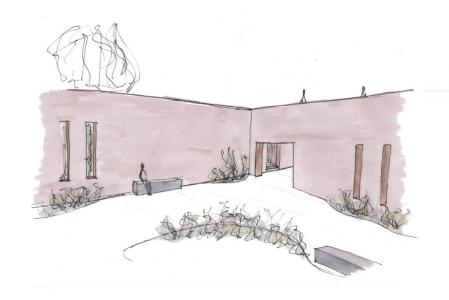










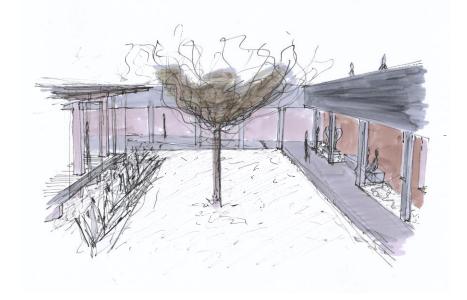










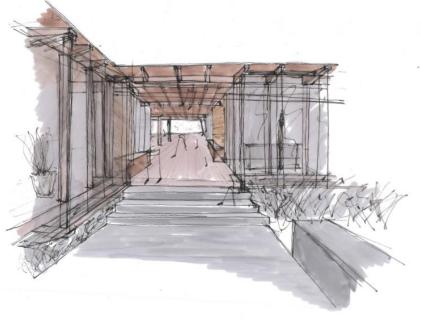




## **Architecture** | 3. Treshold zone





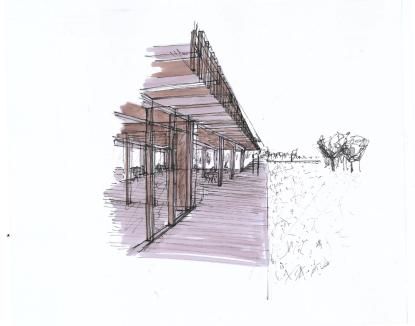




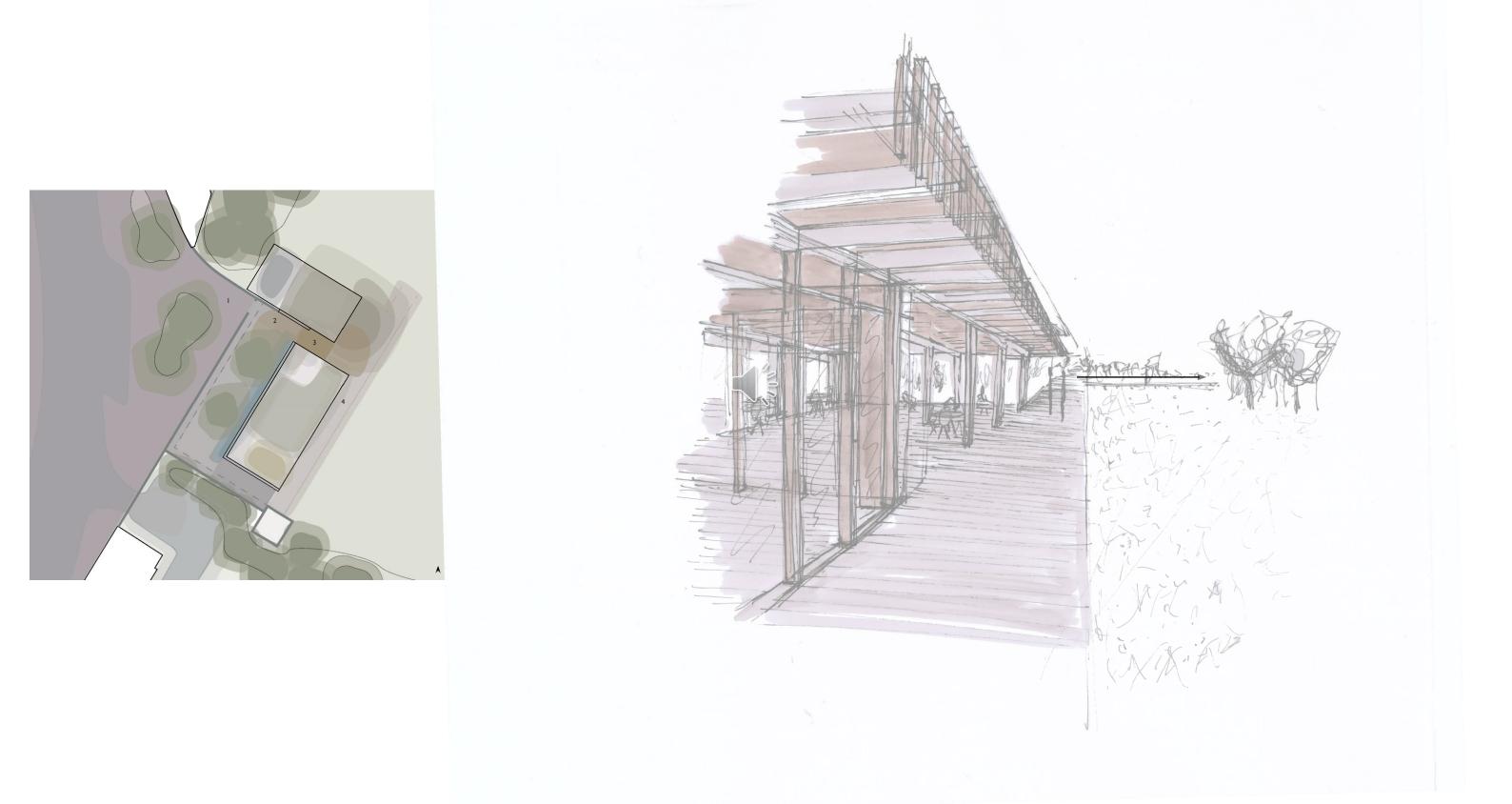














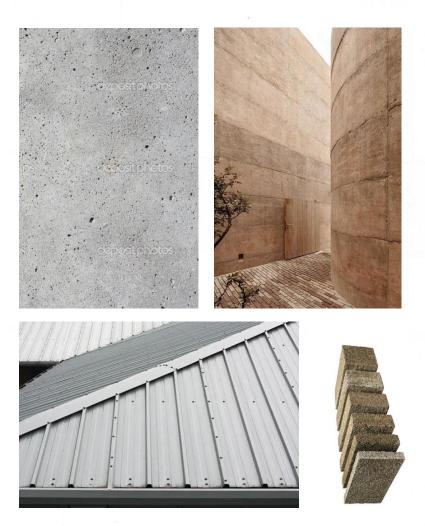
No heat/cold storage underground to reduce impact on the ground

Helophyte filter

Raised floor, to have less impact on the nature

Keeping green and emphasizing biodiversity

Urban side



Landscape side



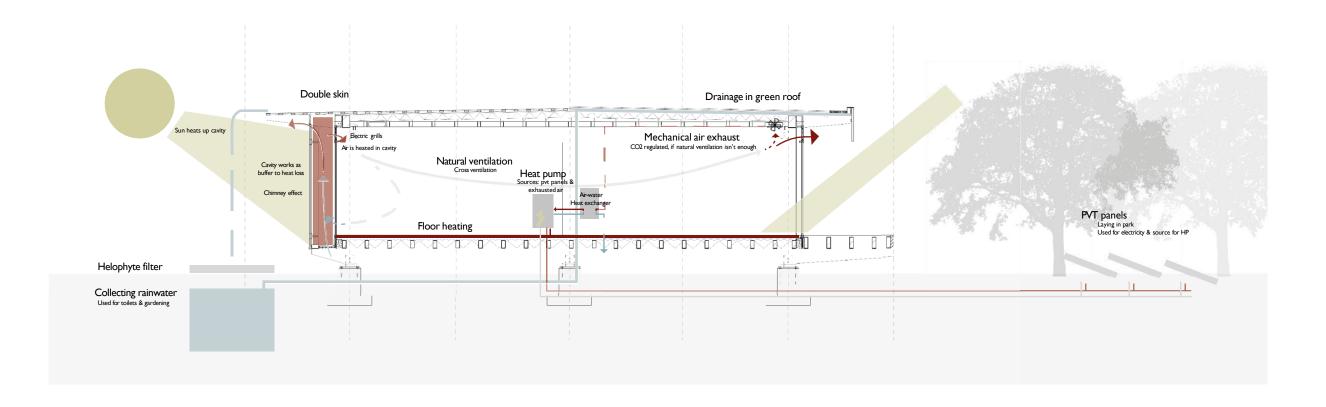


Rammed earth, natural product

Use of renewable material: wood

## **Technical building design** I Climate diagram

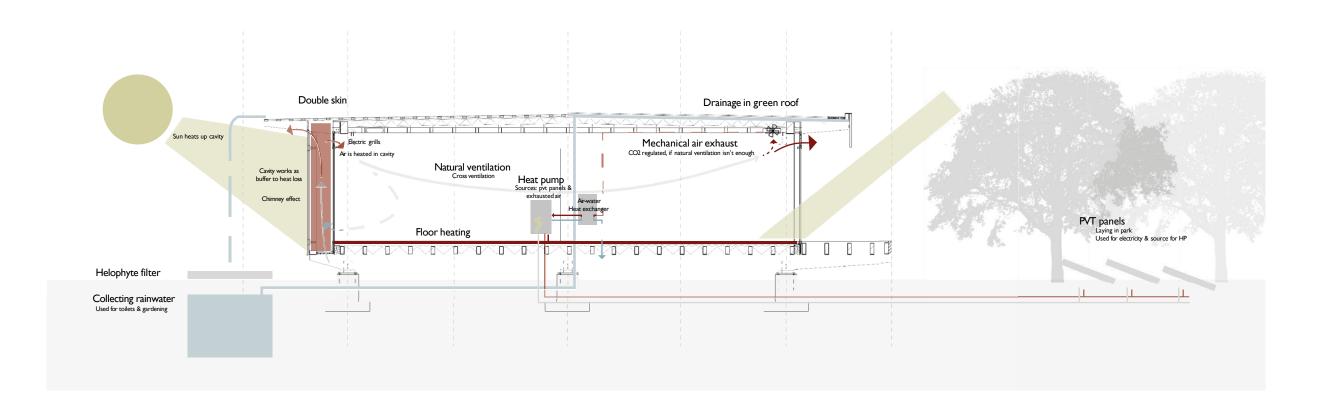
## Winter situation

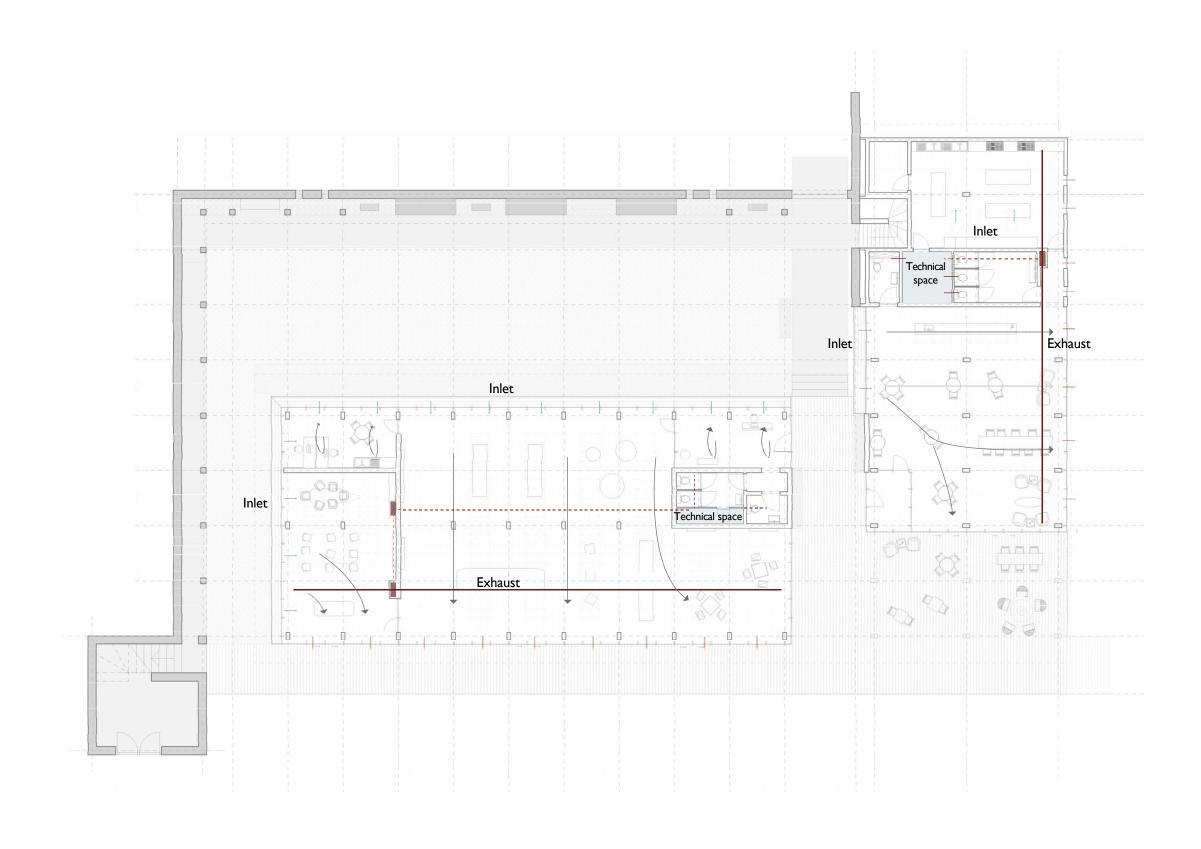


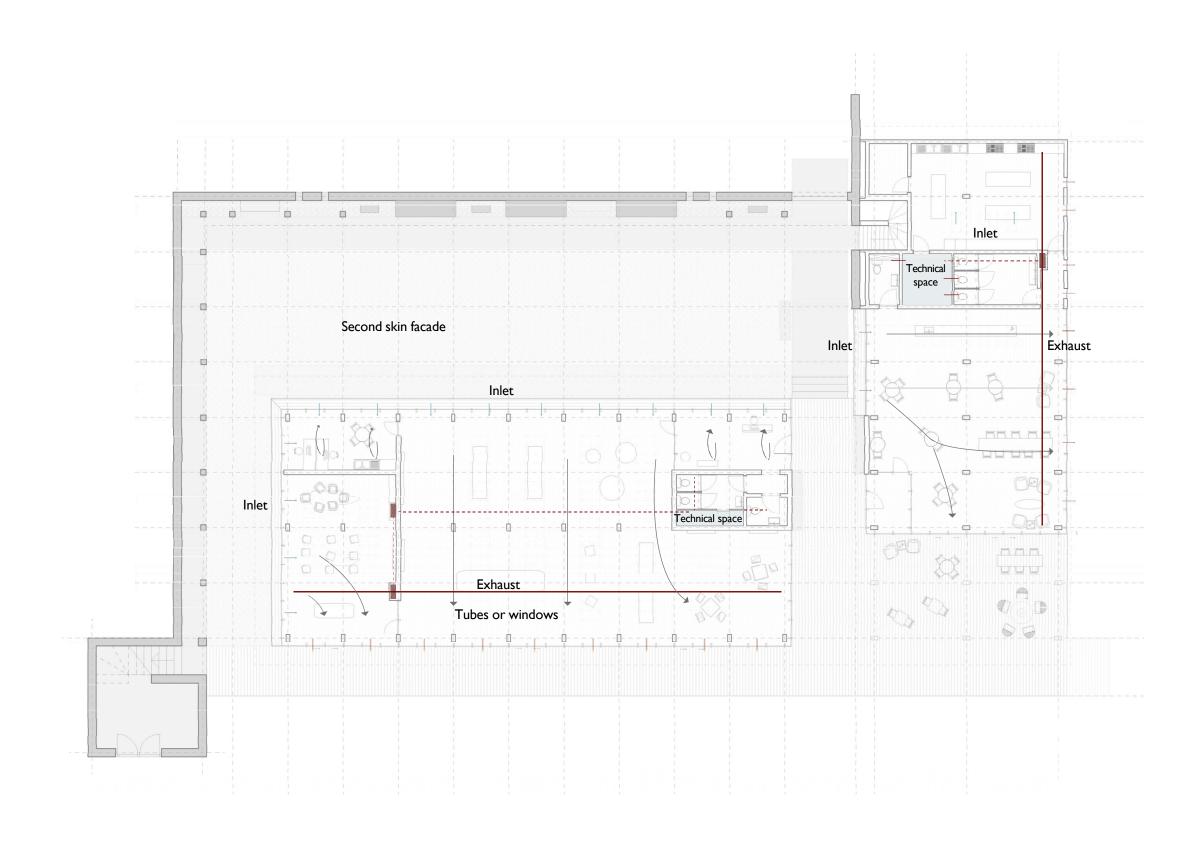


### **Technical building design** I Climate diagram

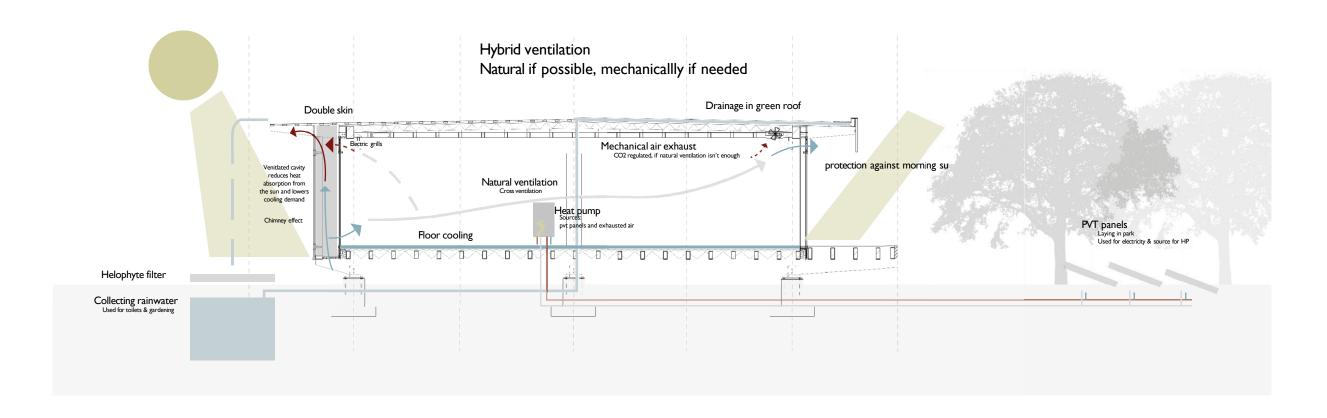
#### Winter situation

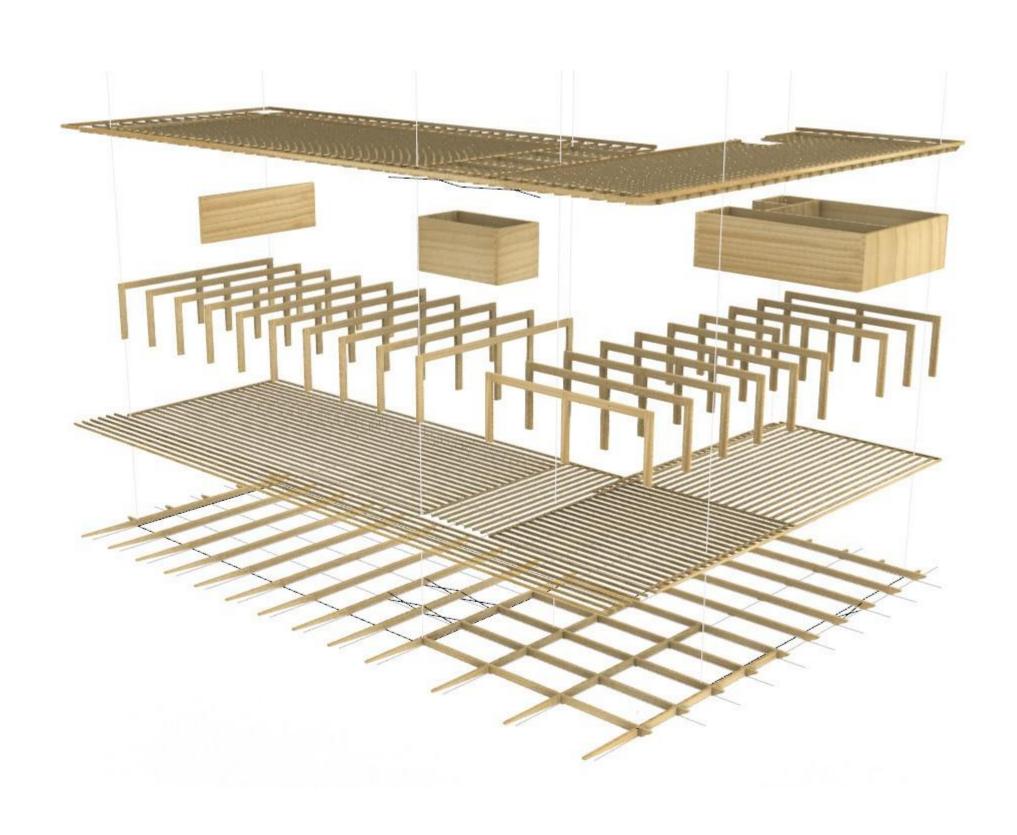


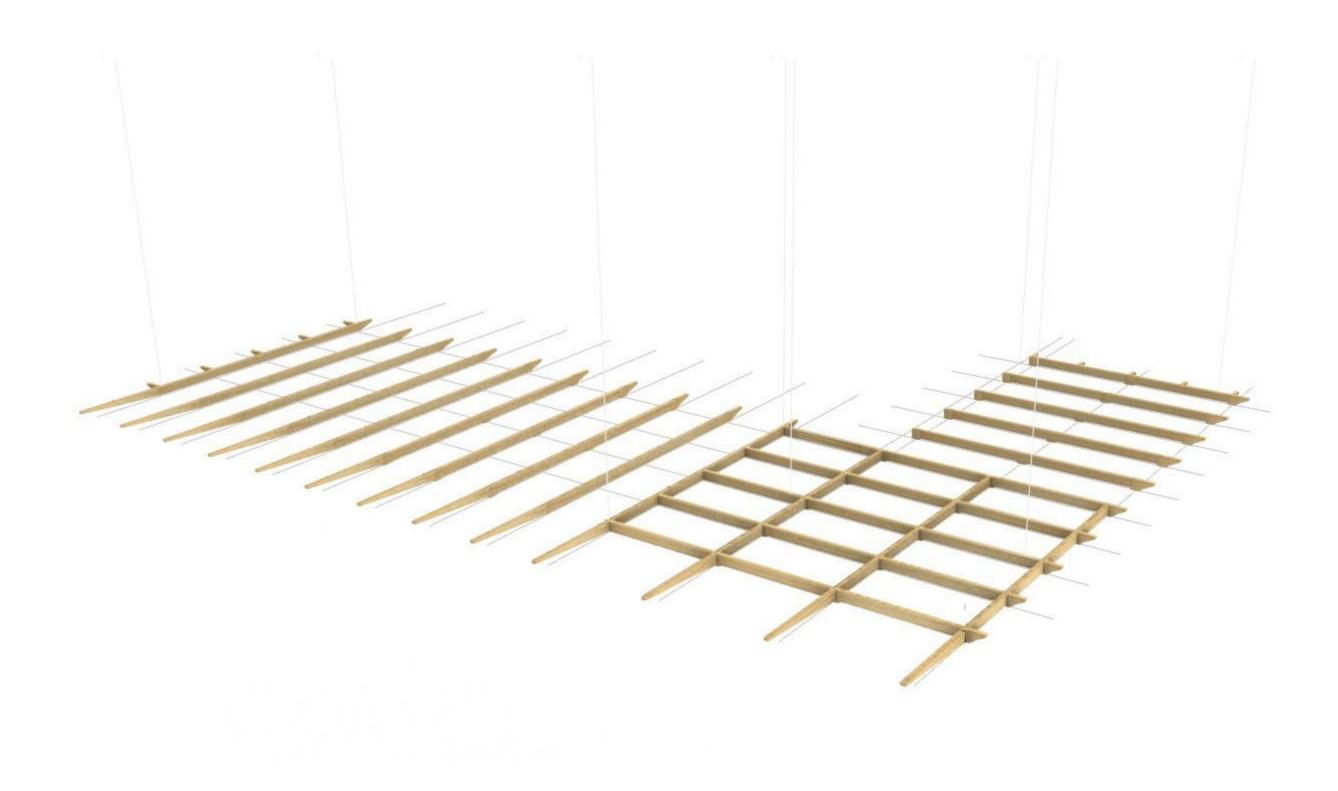




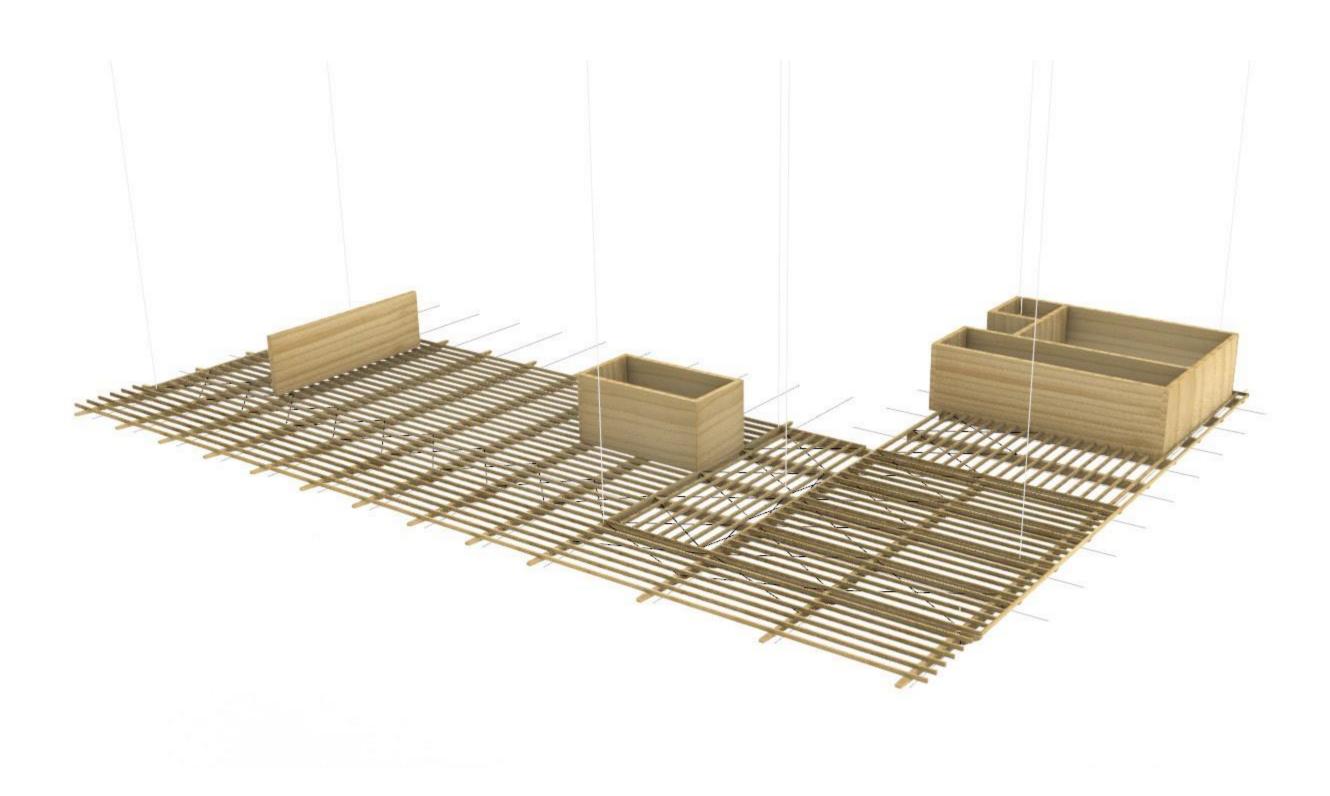
#### Summer situation

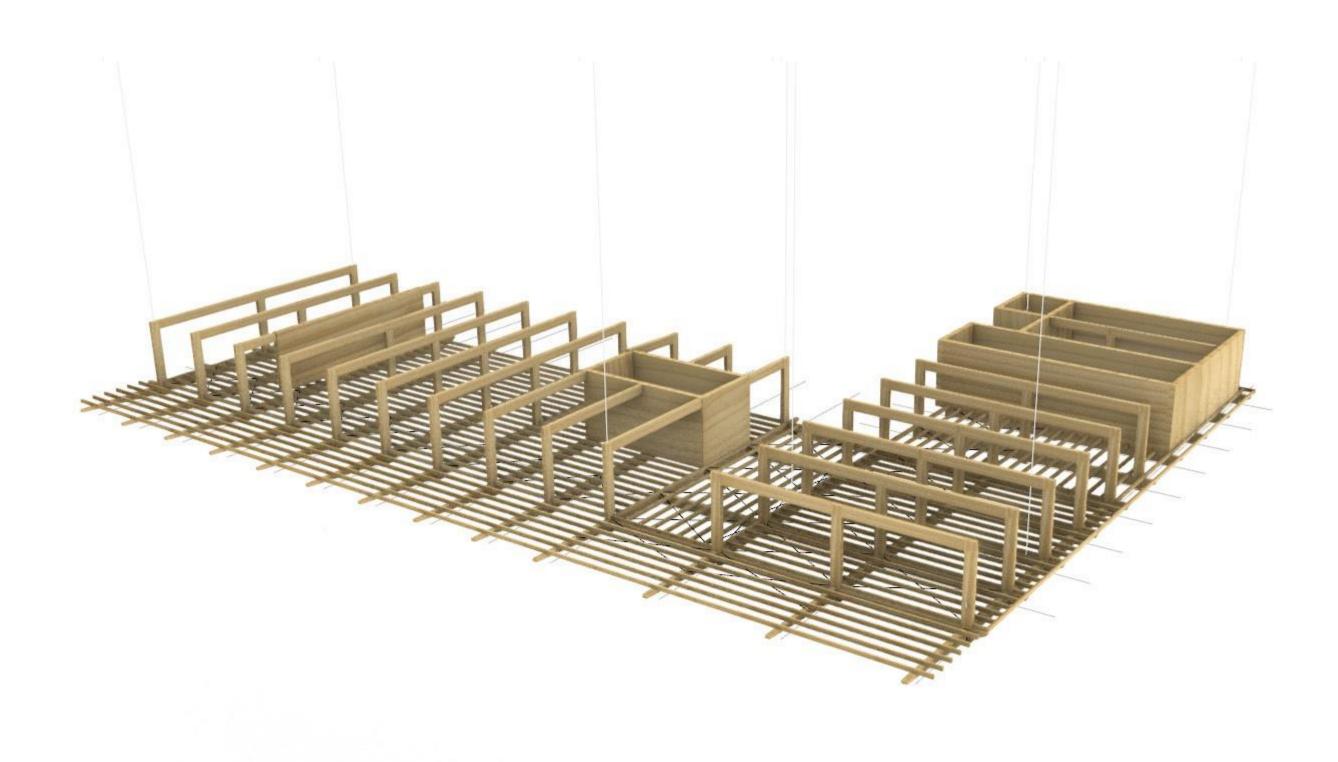


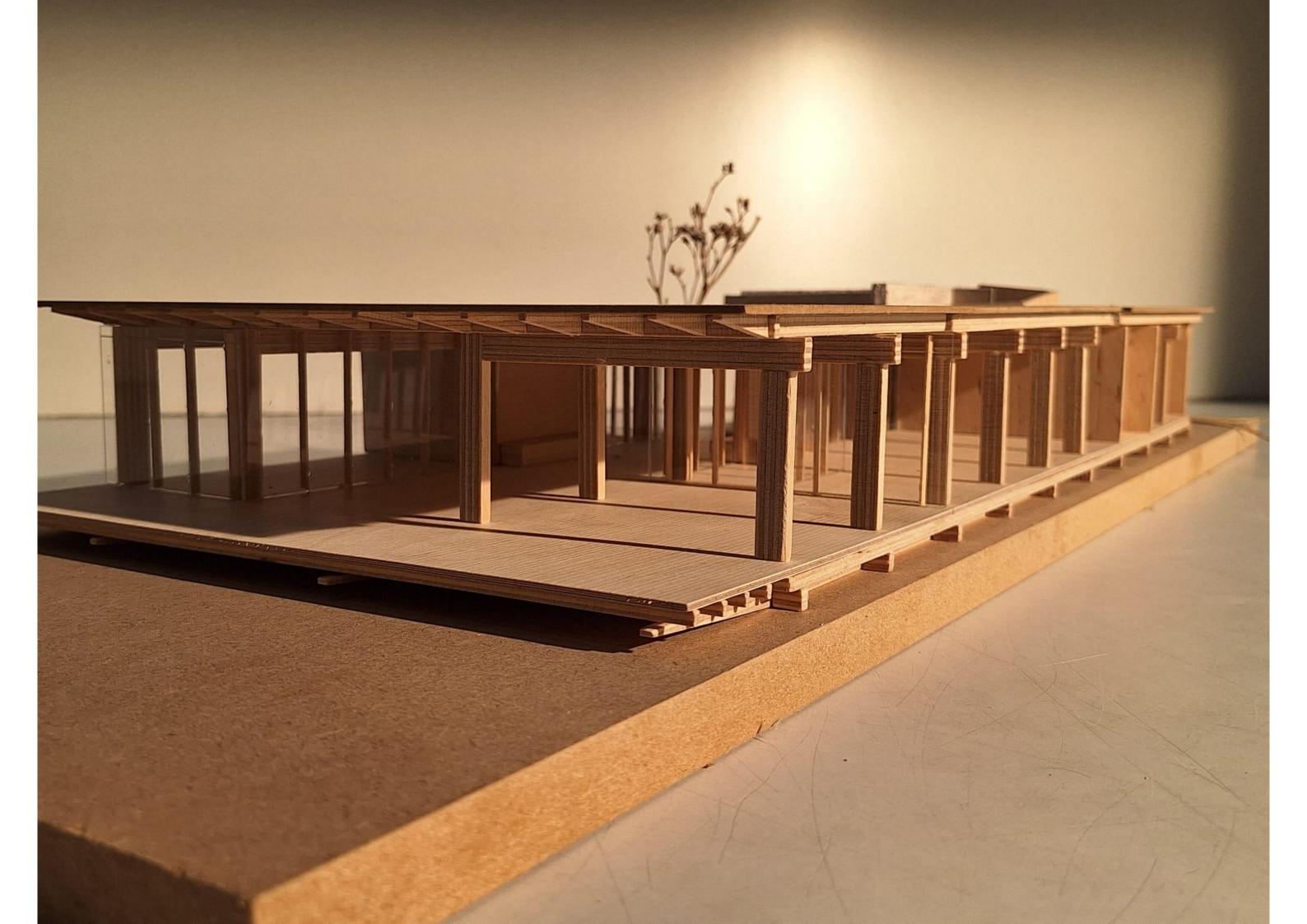


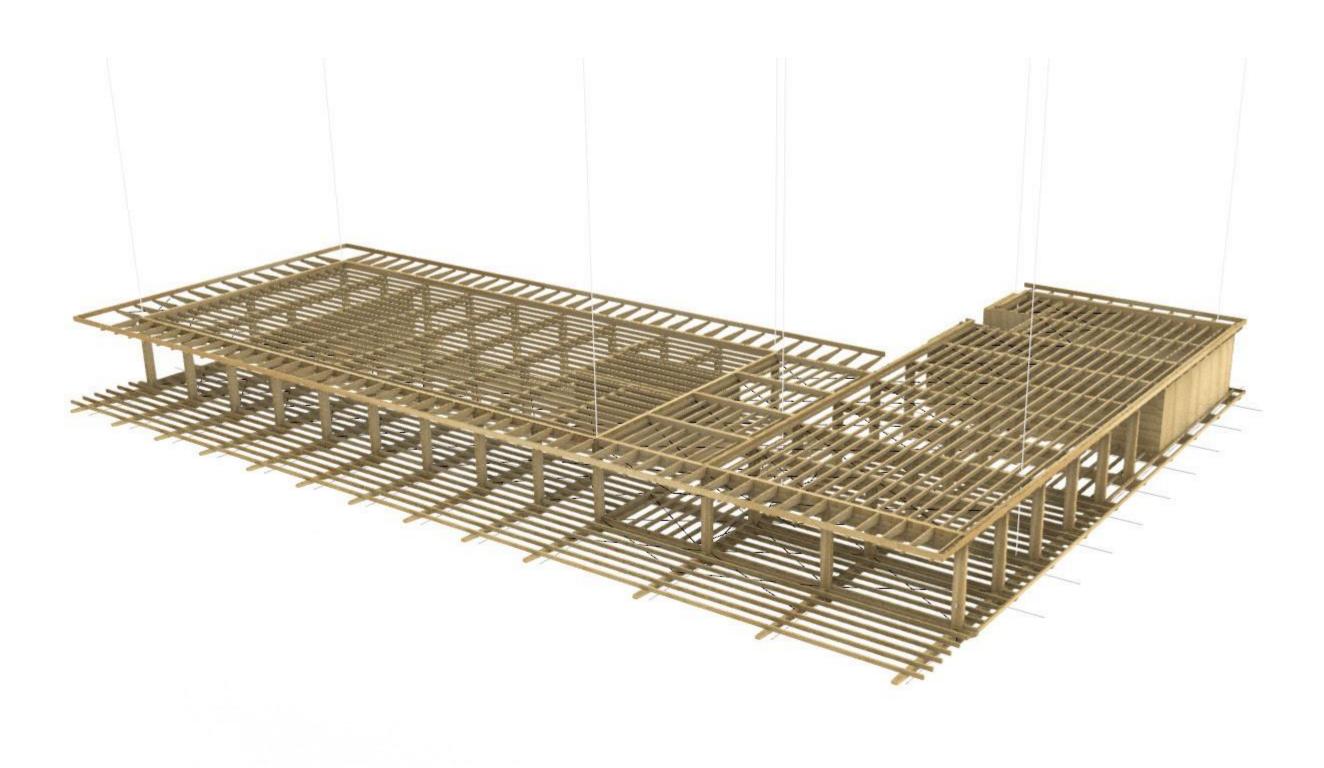




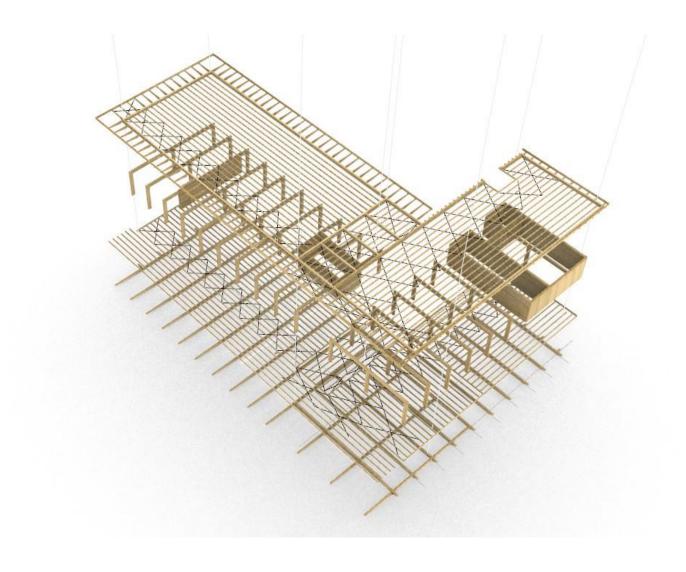






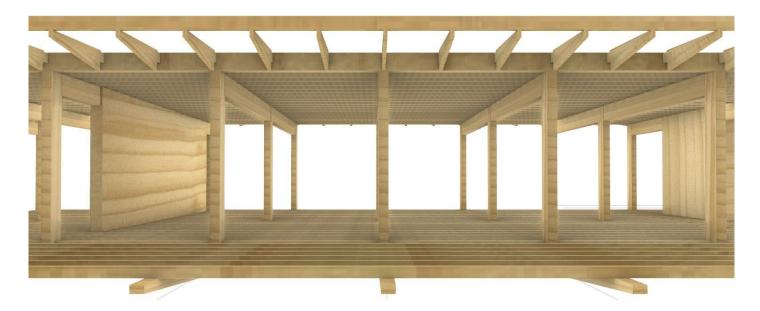


#### **Construction** | Details







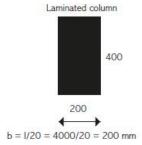




### Construction I Justification of global dimensioning main elements

Aantal verdiepingen	Kolom afmeting* [mm]	
1	L / 20	





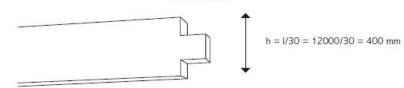
DAKCONSTRUCTIES		ℓ= 5 10 15	
planken en triplexplaten	h + + h	$\frac{1}{30} - \frac{1}{35} \ell$ - platte daken $\frac{1}{40} - \frac{1}{50} \ell$ - hellende dake	< - 1,0 m
balken, gezaagd	+ + + +	$\frac{1}{20} - \frac{1}{30} \ell$	







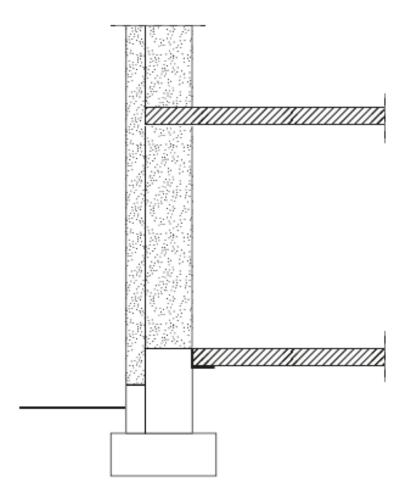


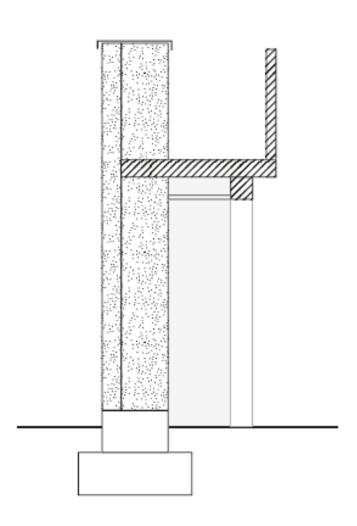


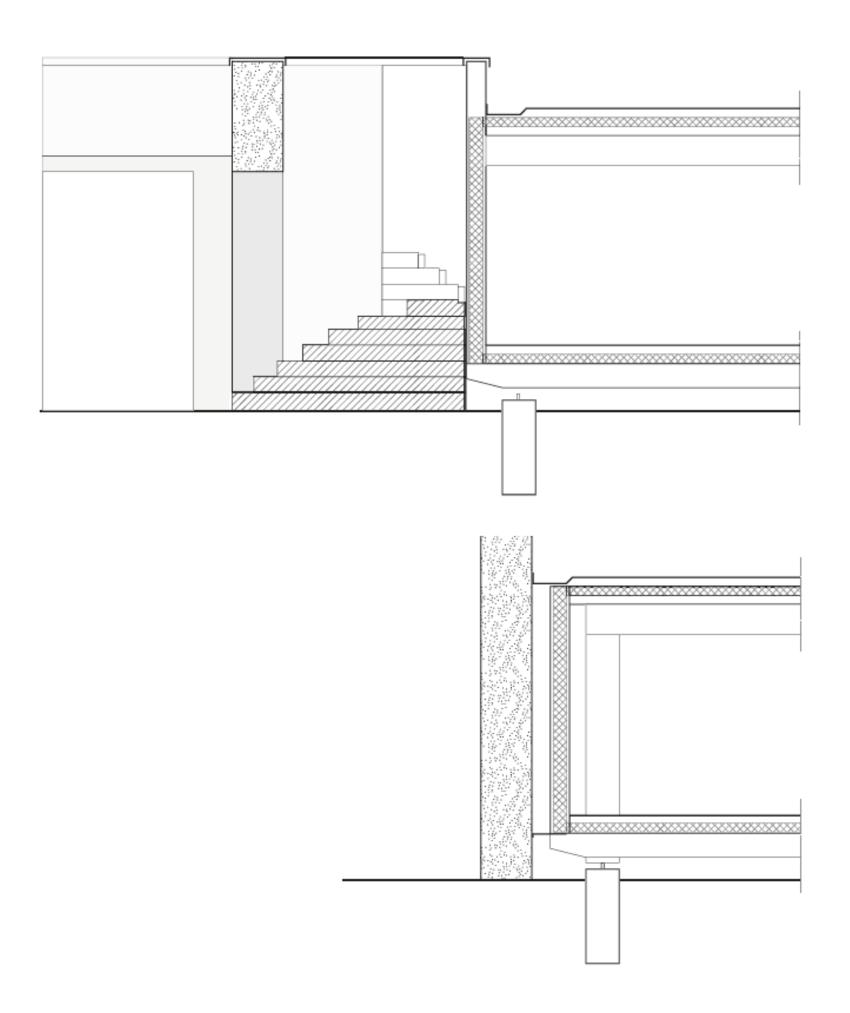
## Construction | Principles urban side



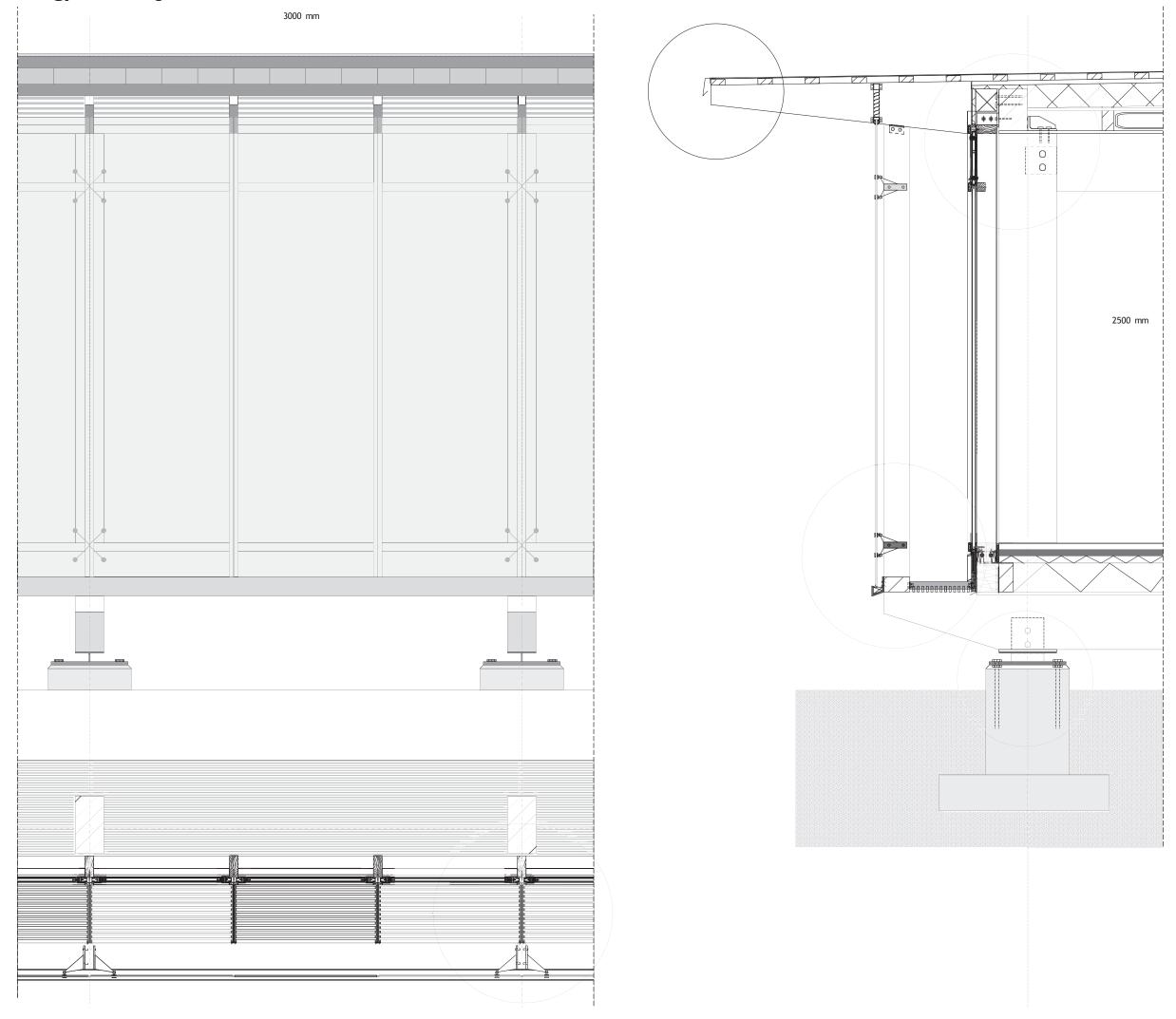


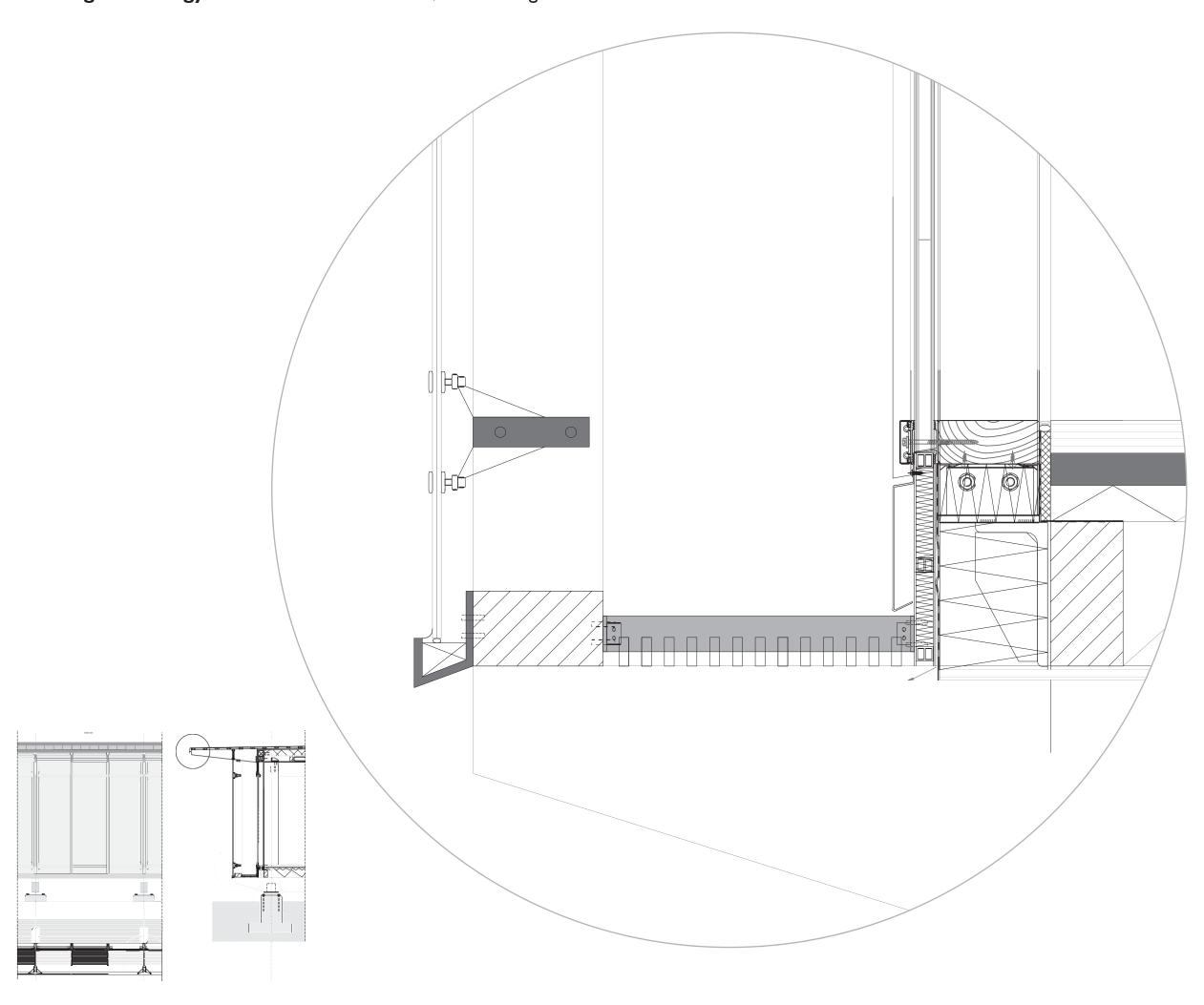


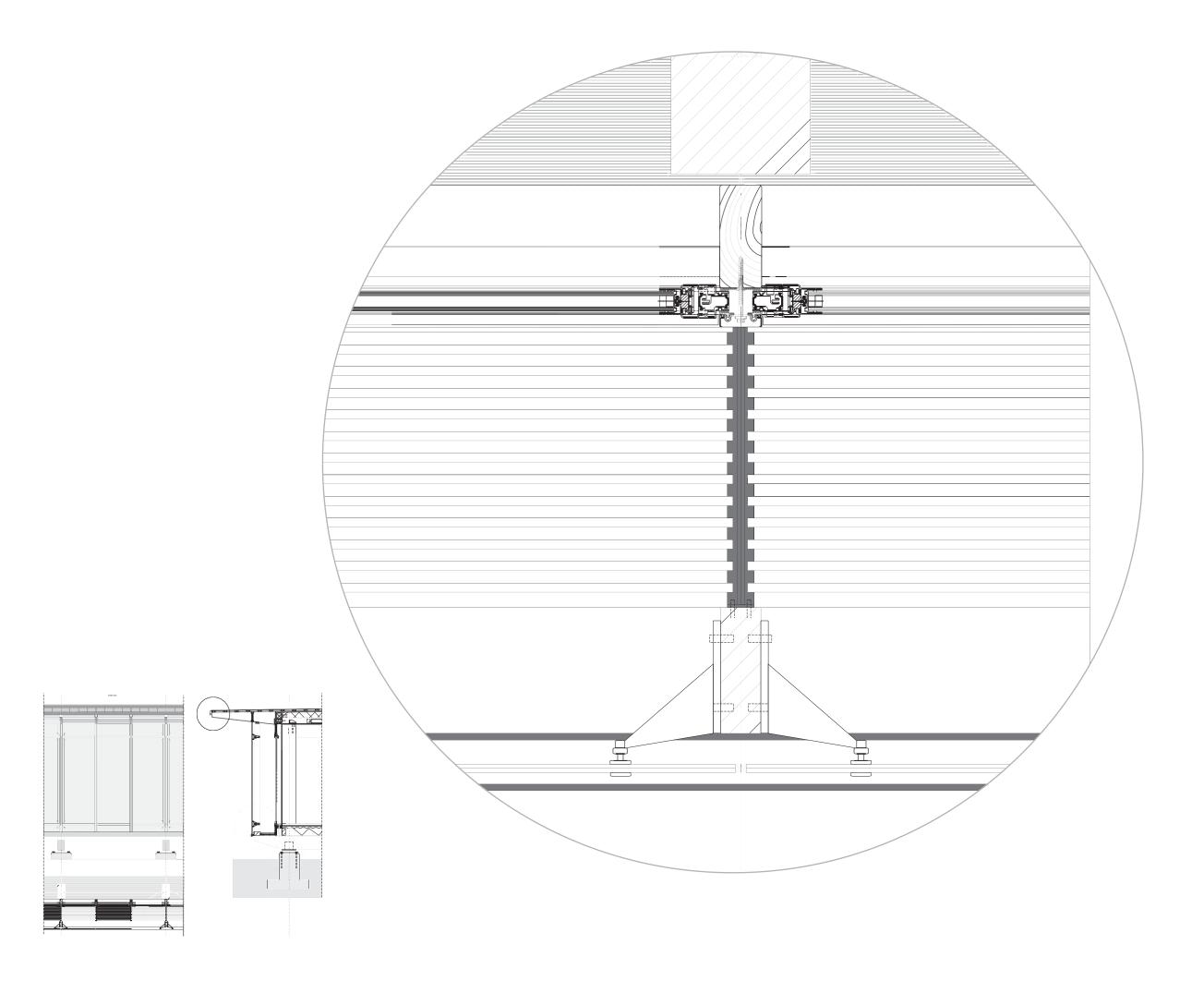


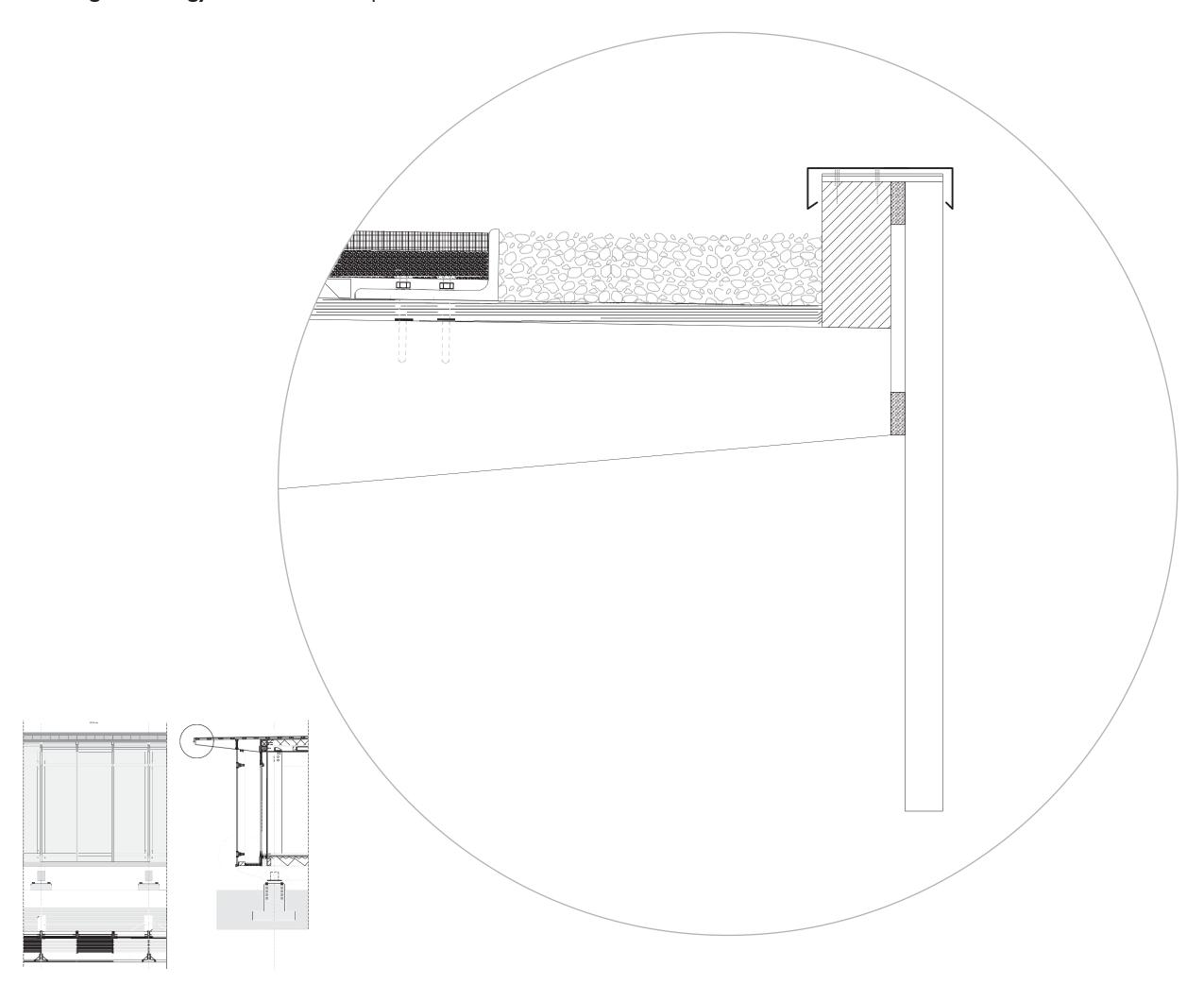


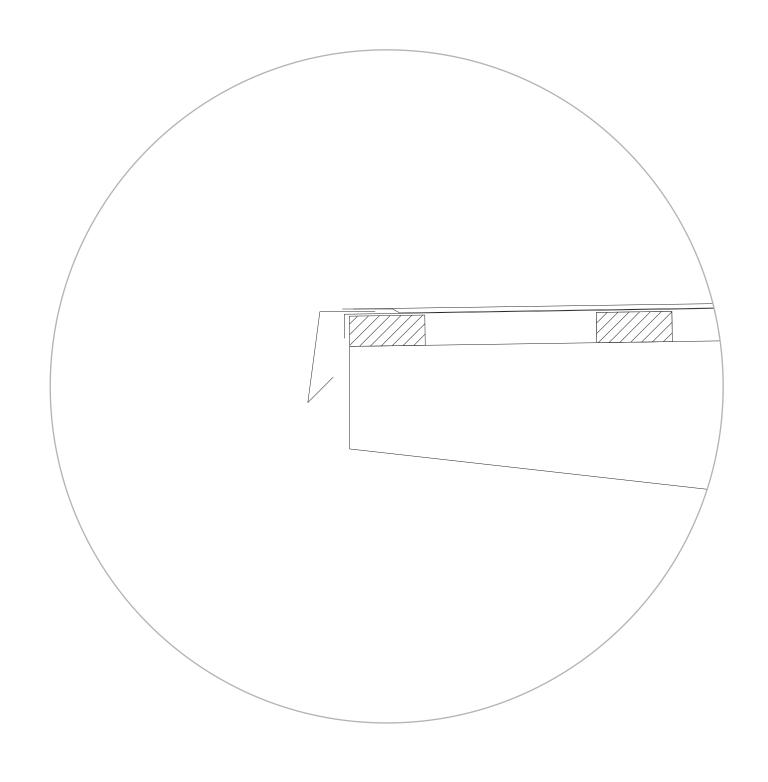
**Building technology** | 1:20 fragment double skin facade

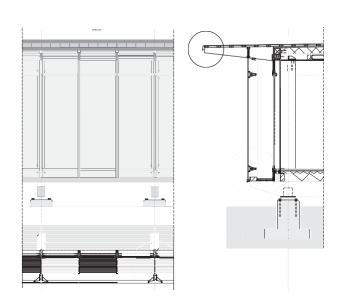


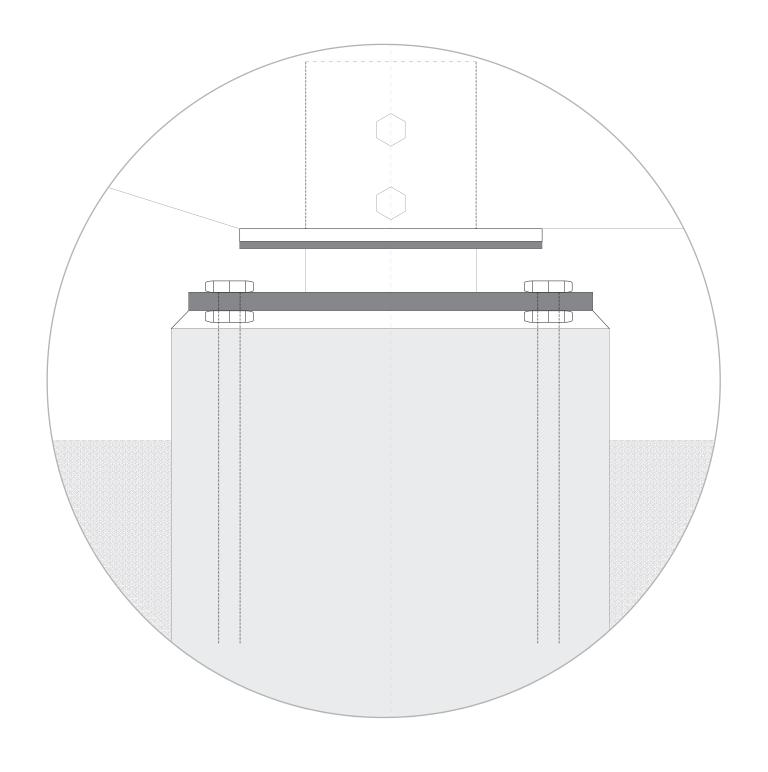


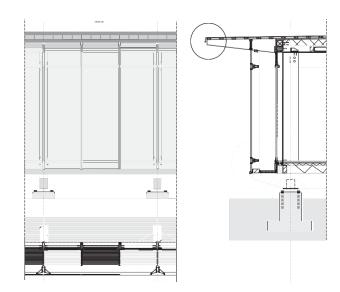










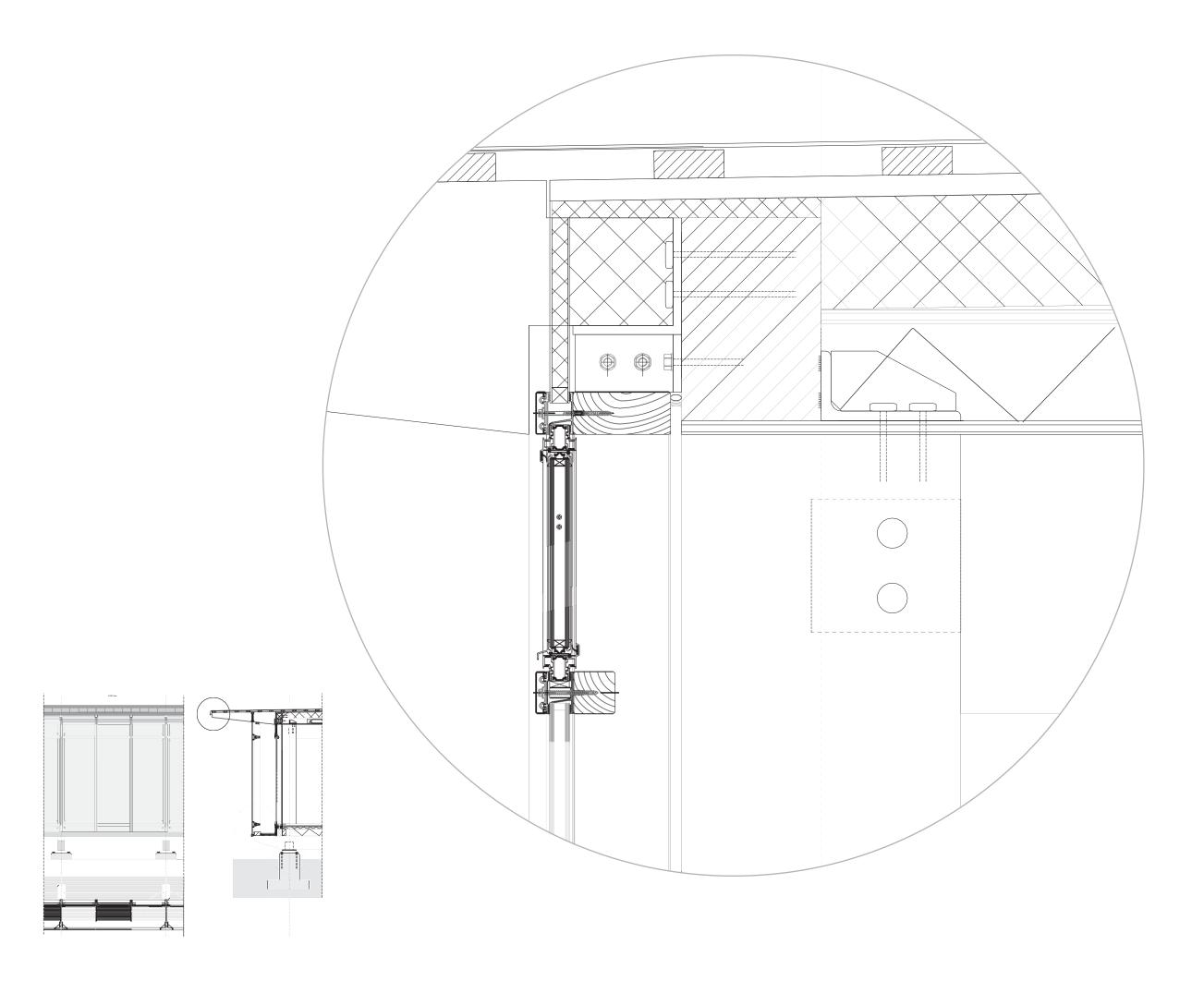




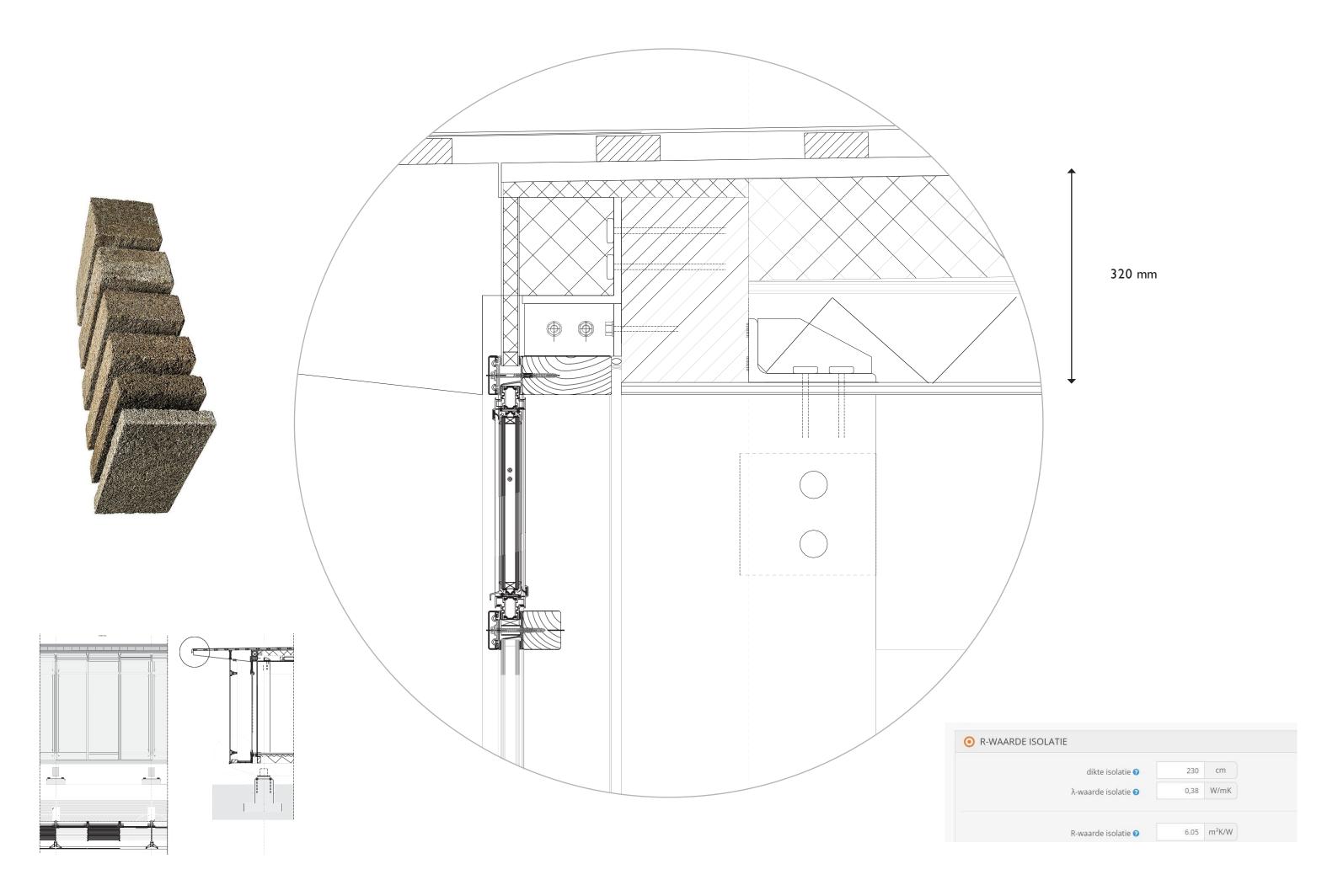


### Special thanks to: Sam Stalker

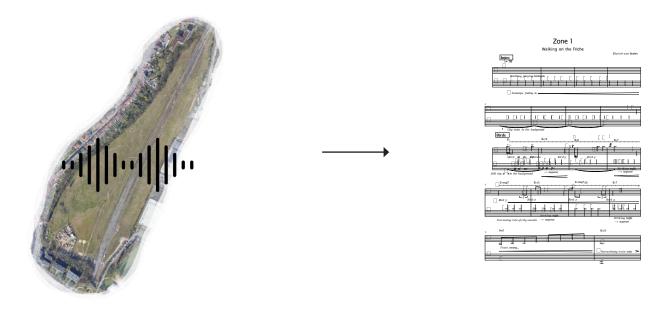
Sam Stalker
Eireen Schreurs
Anét Meijer

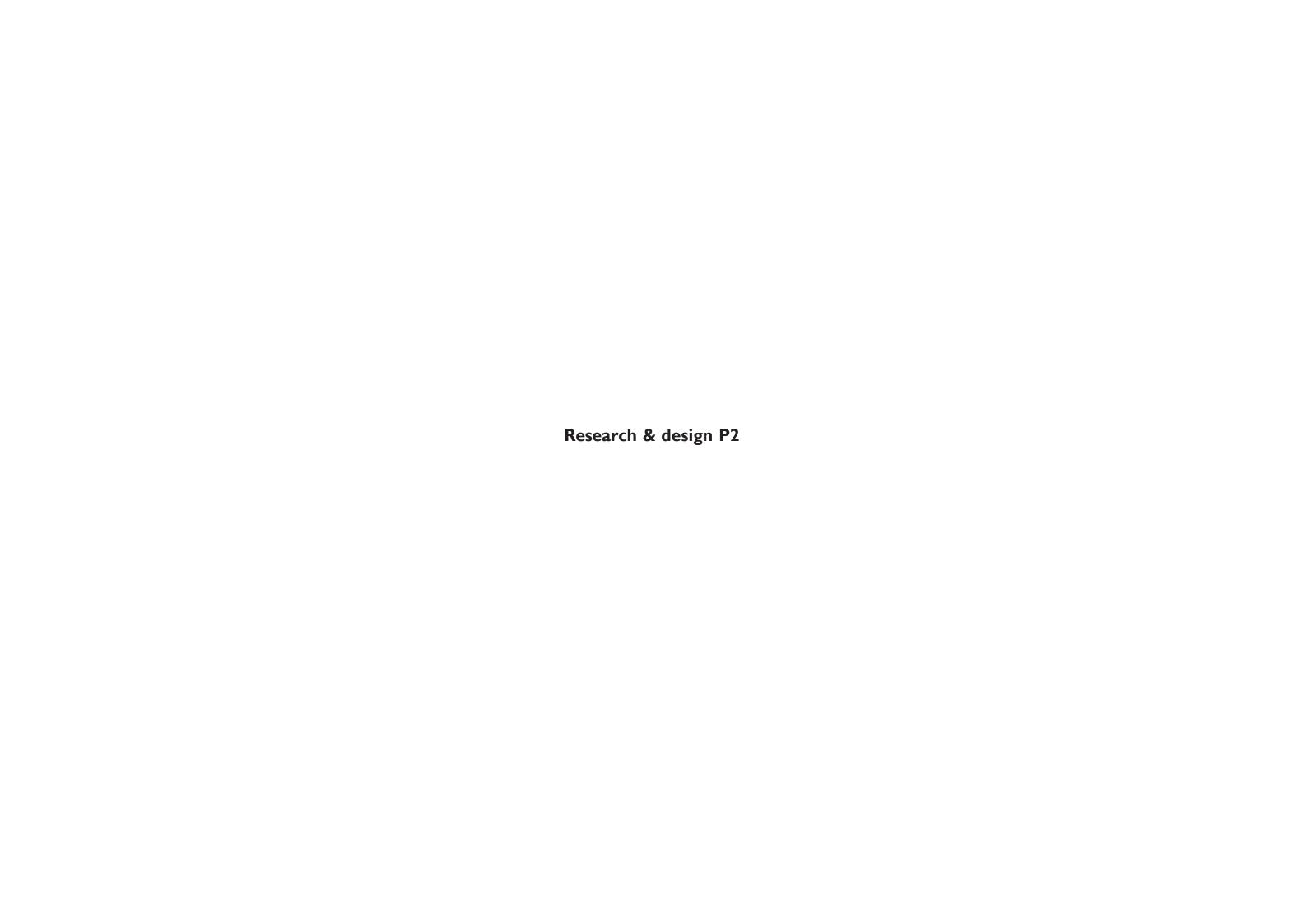


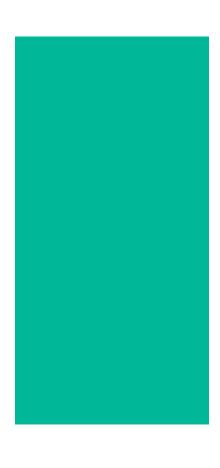
## **Building technology** I Insulation calculation



# Analysing sounds by use of music







Analysis by music

