

A Threshold for Discovery

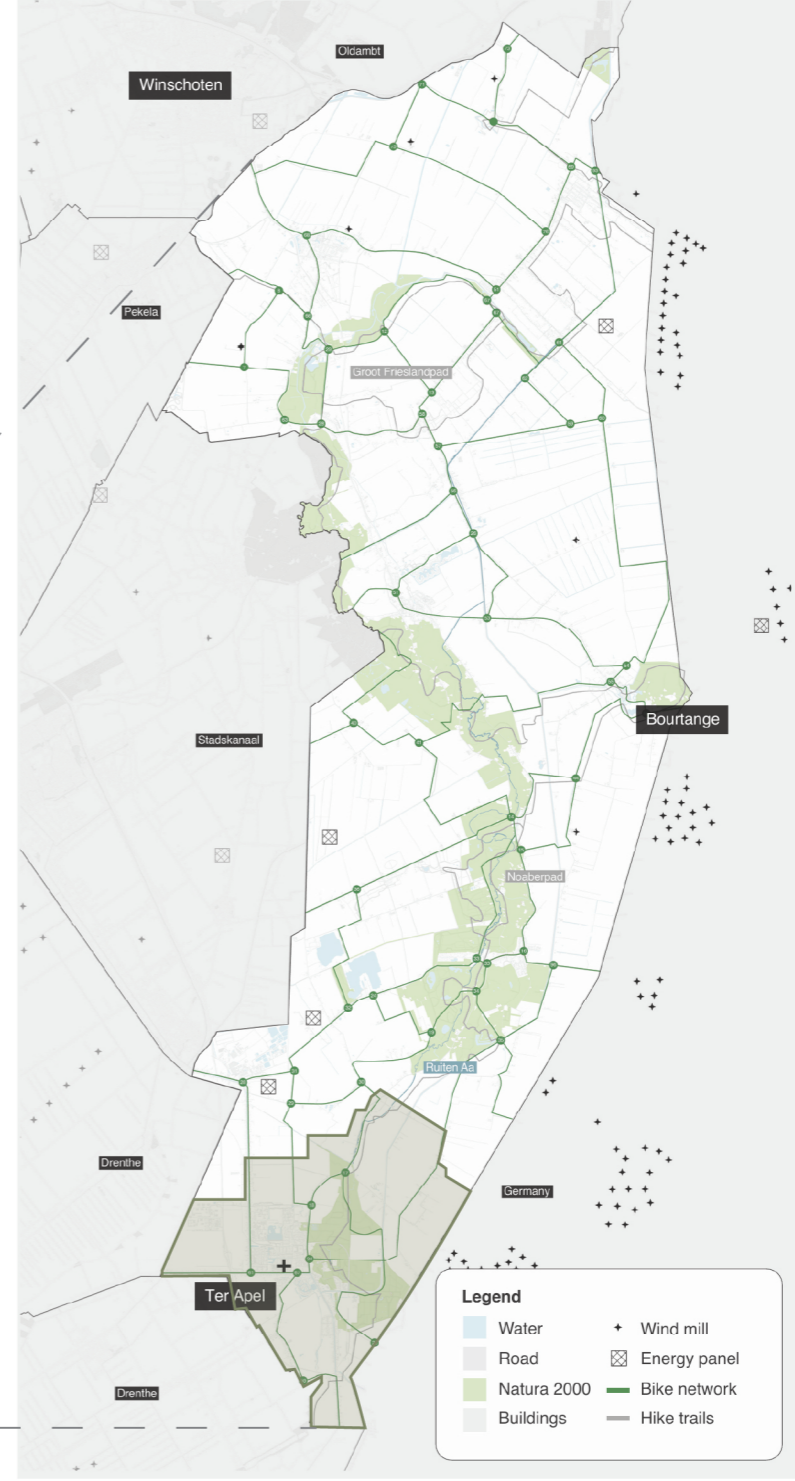
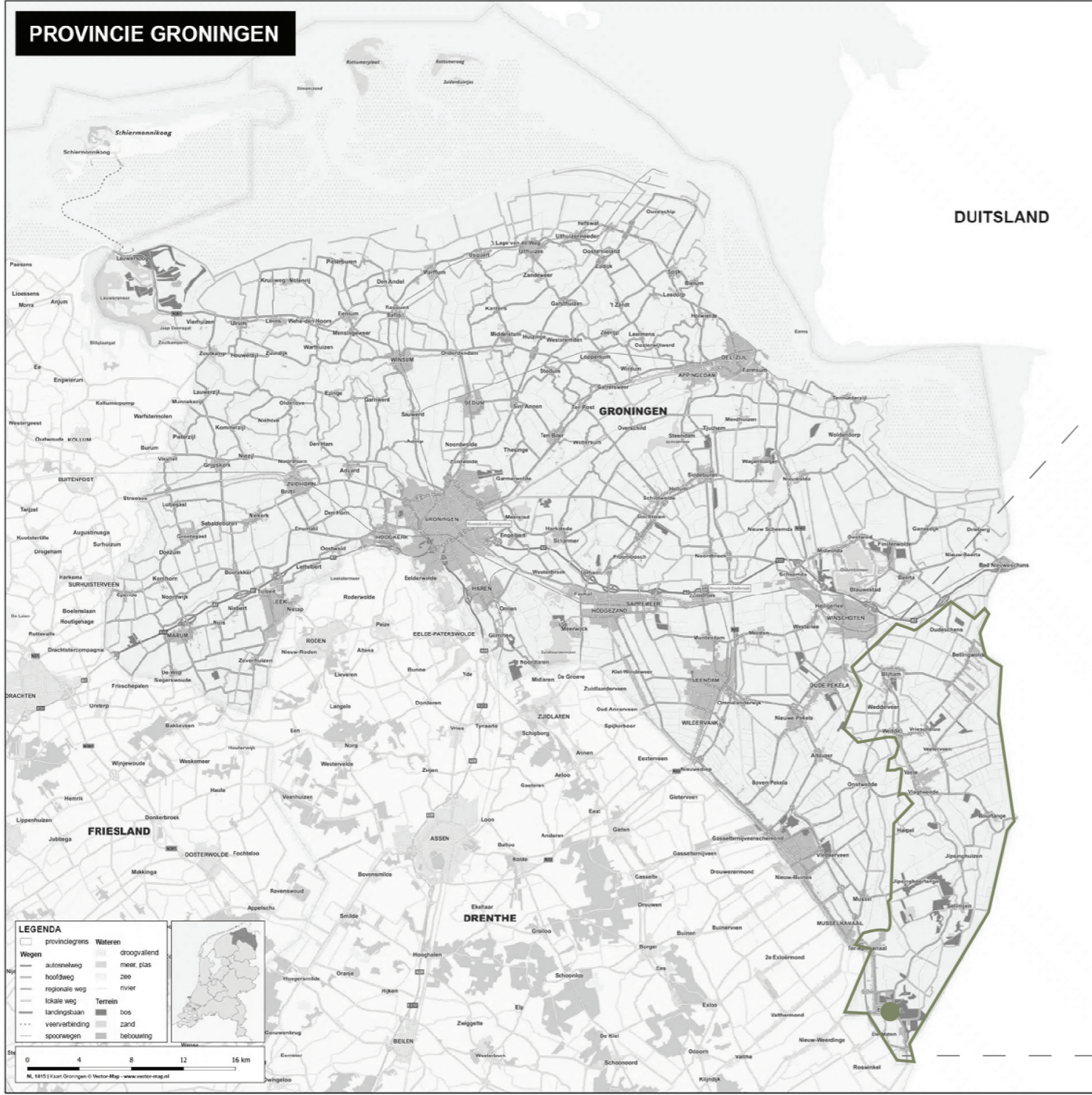
New Architecture for Touristic Journeys

Marko Lojanica

Public Building Graduation Studio | Re-Start the North (Ny Begun) | Year: 2025-26 | Tutors:
ir. Stefan Witteman, dr. Stefano Corbo, Prof. ir. Nathalie de Vries | Phase: A4 | 25.06.2026.

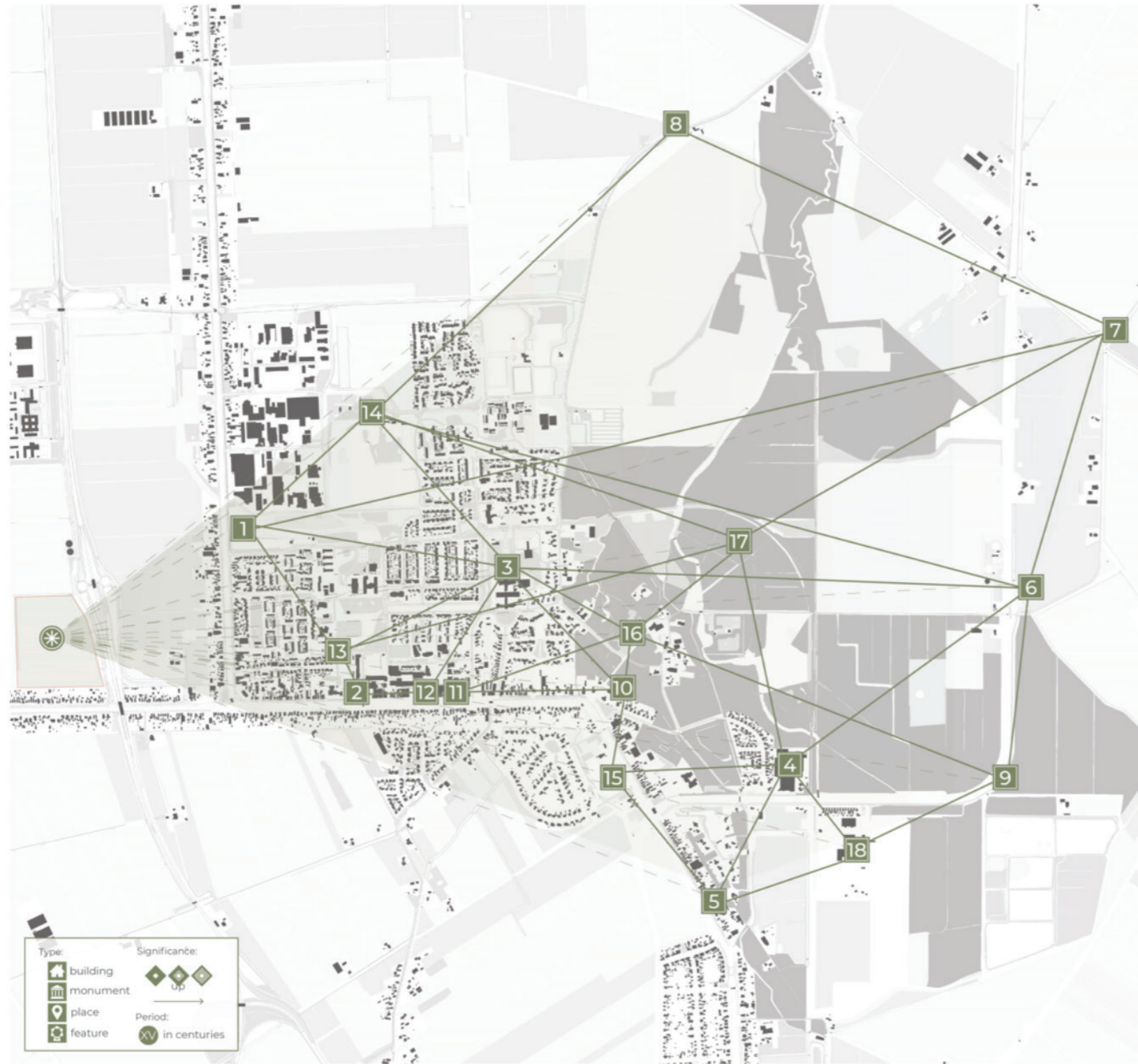






Groningen Province map.
source: kaartenatlassen.nl/





1 Restant Spoorbrug



2 St Willibrordus church in Ter Apel



3 Schoolgebouw



4 A.G.O Dorp



5 't Schot



6 Sluis en sluiswachterwoning



7 Kapel Laundermarke



8 Standermolen Ter Apel



9 Kabelbaan Ter Apel



10 Doctor's Villa - Medical Practice



11 The Bank Building



12 Shop-House with Bakery



13 Convent / Religious Care



14 Moekesgat campsite



15 Jachthaven By Knaap



16 Kloosterencave Monastery

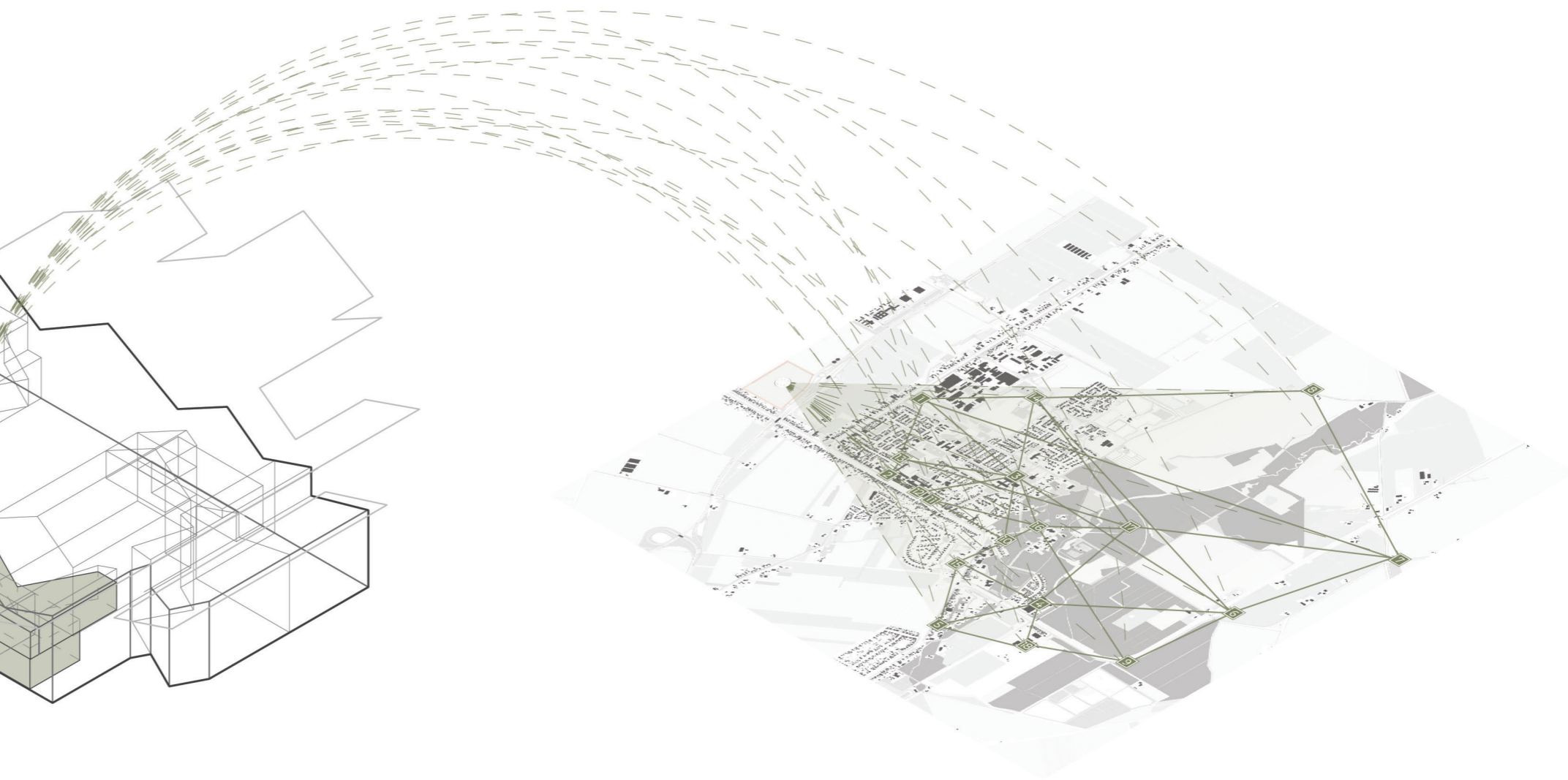
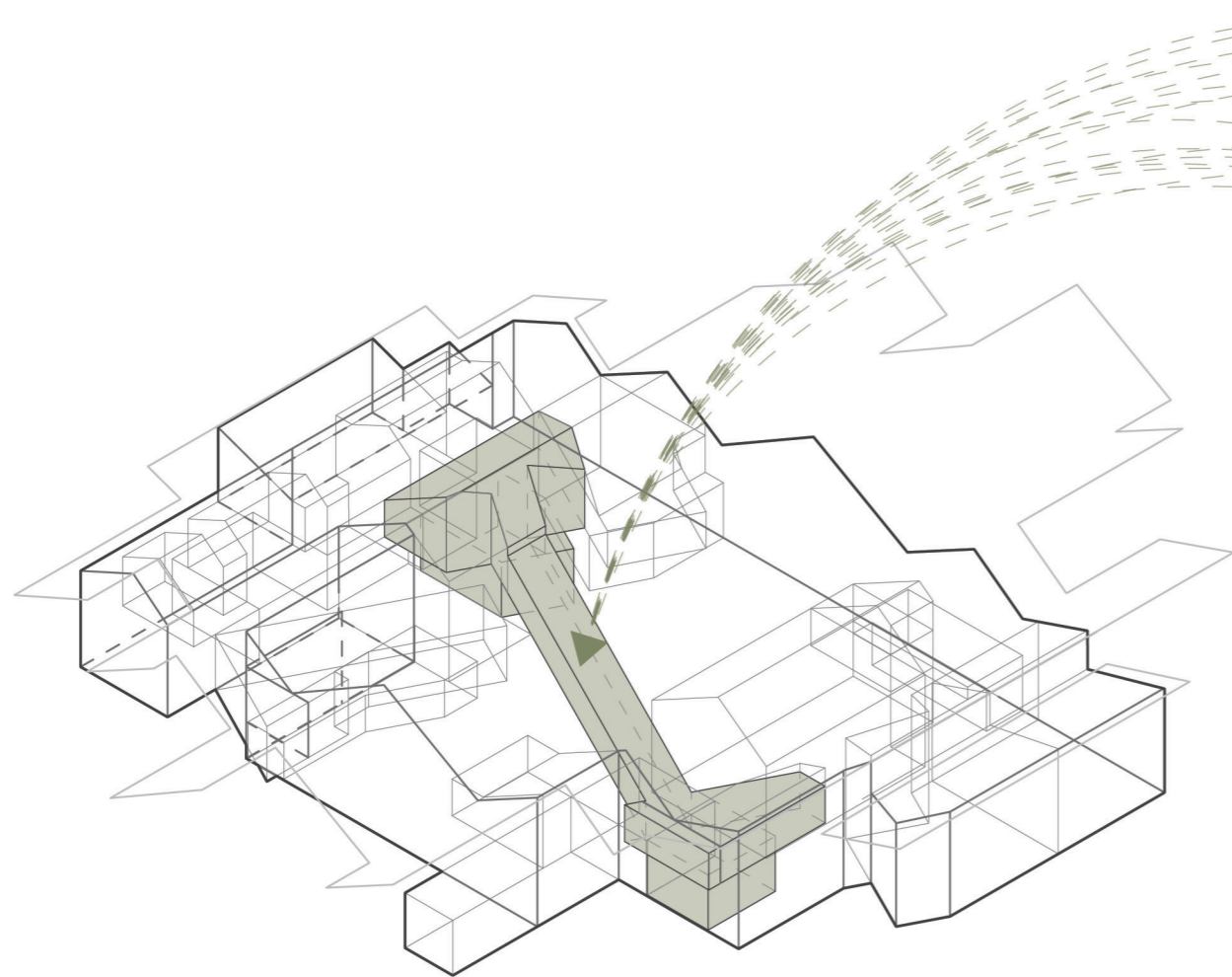


17 The Ancient Woods



18 Potato Factory/ Ecodorp





TOURISM



Cultural visitor center in Zhejiang Province, UAD



Maiji Mountain Visitor Center, ZXD ARCHITECTS



Desert X AlUla 2024 Visitor Centre , KWY Studio



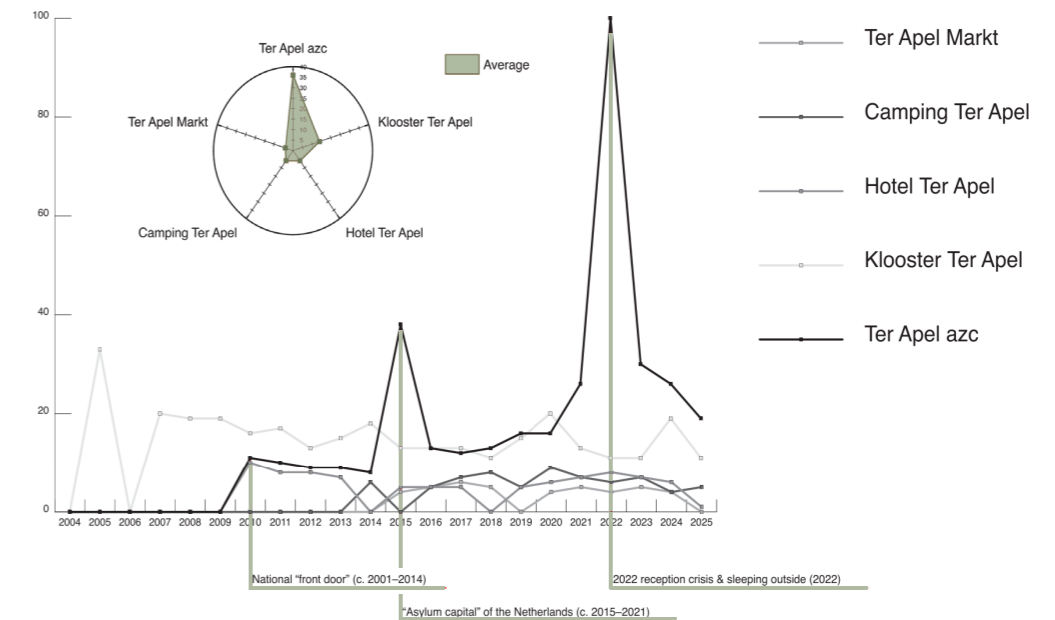
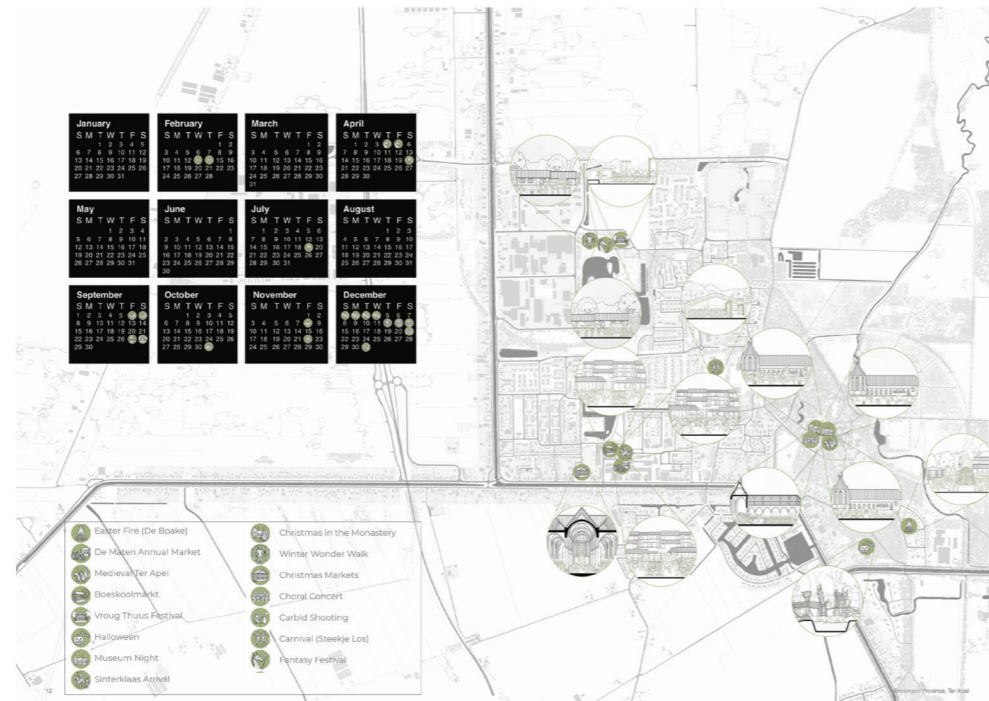
Taylor Missouri Botanical gardens, ASG

CIVIC VALUES

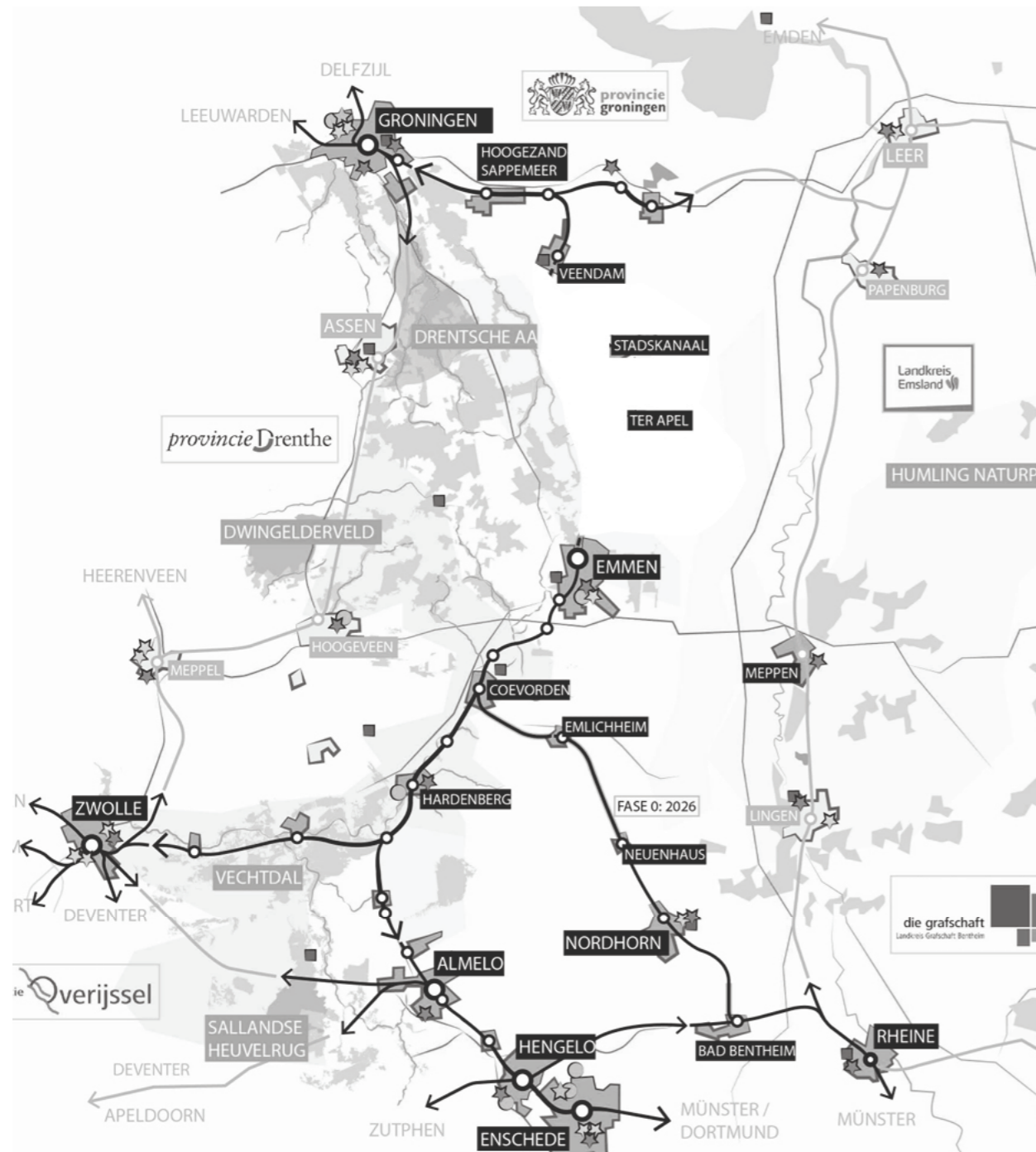


Bussen blijven leeg 'Buschauffeurs voeren actie rond Ter Apel vanwege overlast azc'

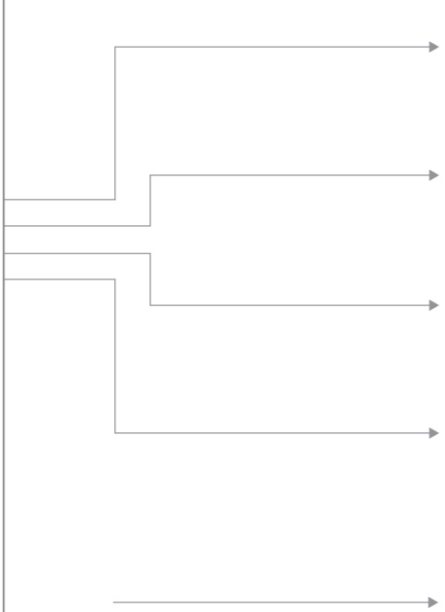
Door RTL Nieuws · 2 december 2021 · Aangepast: 2 december 2021



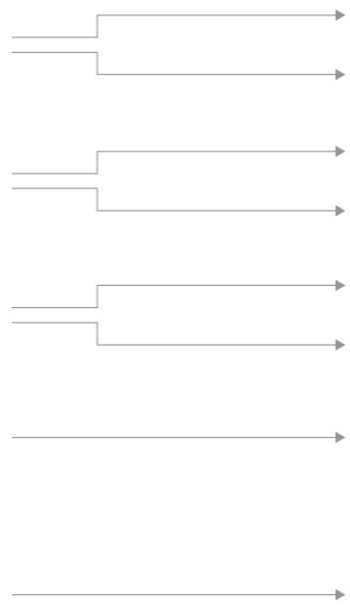
INFRASTRUCTURE



**A THRESHOLD
FOR DISCOVERY**



- TOURISM
- CIVIC VALUES
- HISTORY
- INFRASTRUCTURE
-
- FRAMEWORK

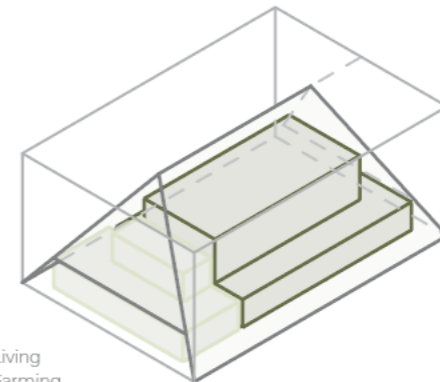
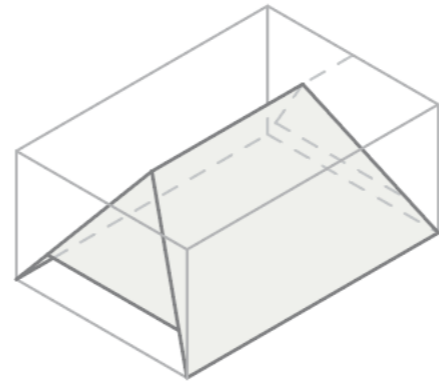
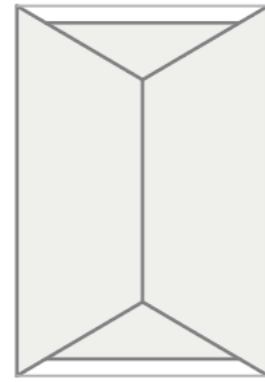
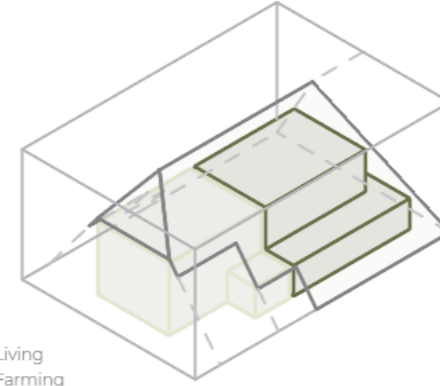
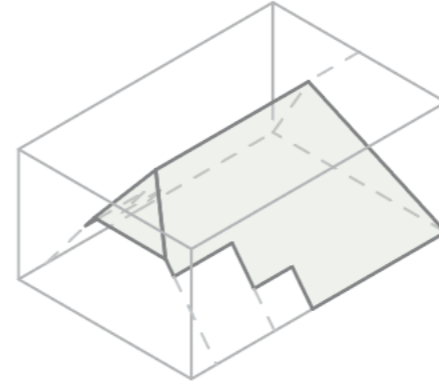
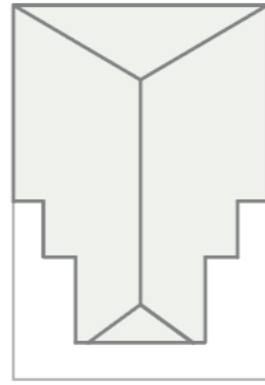


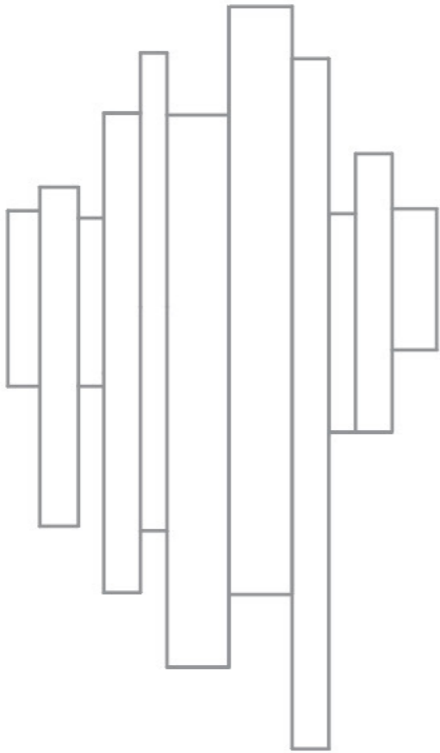
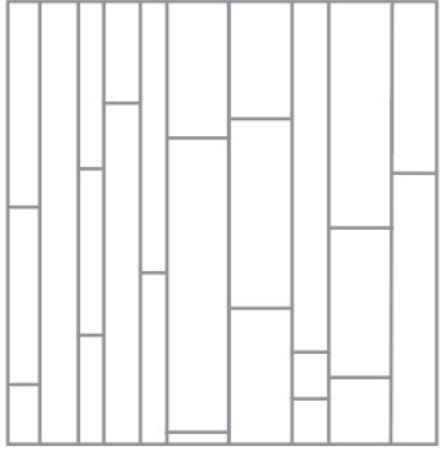
- Promoting cultural tourism*
Simulating visitor interest
- Reframing Ter Apel's Identity*
Accommodating traditional events
- Amplifying historical values*
Organizing tangible heritage
- Providing access to the region*
- Presents a framework for other contexts*

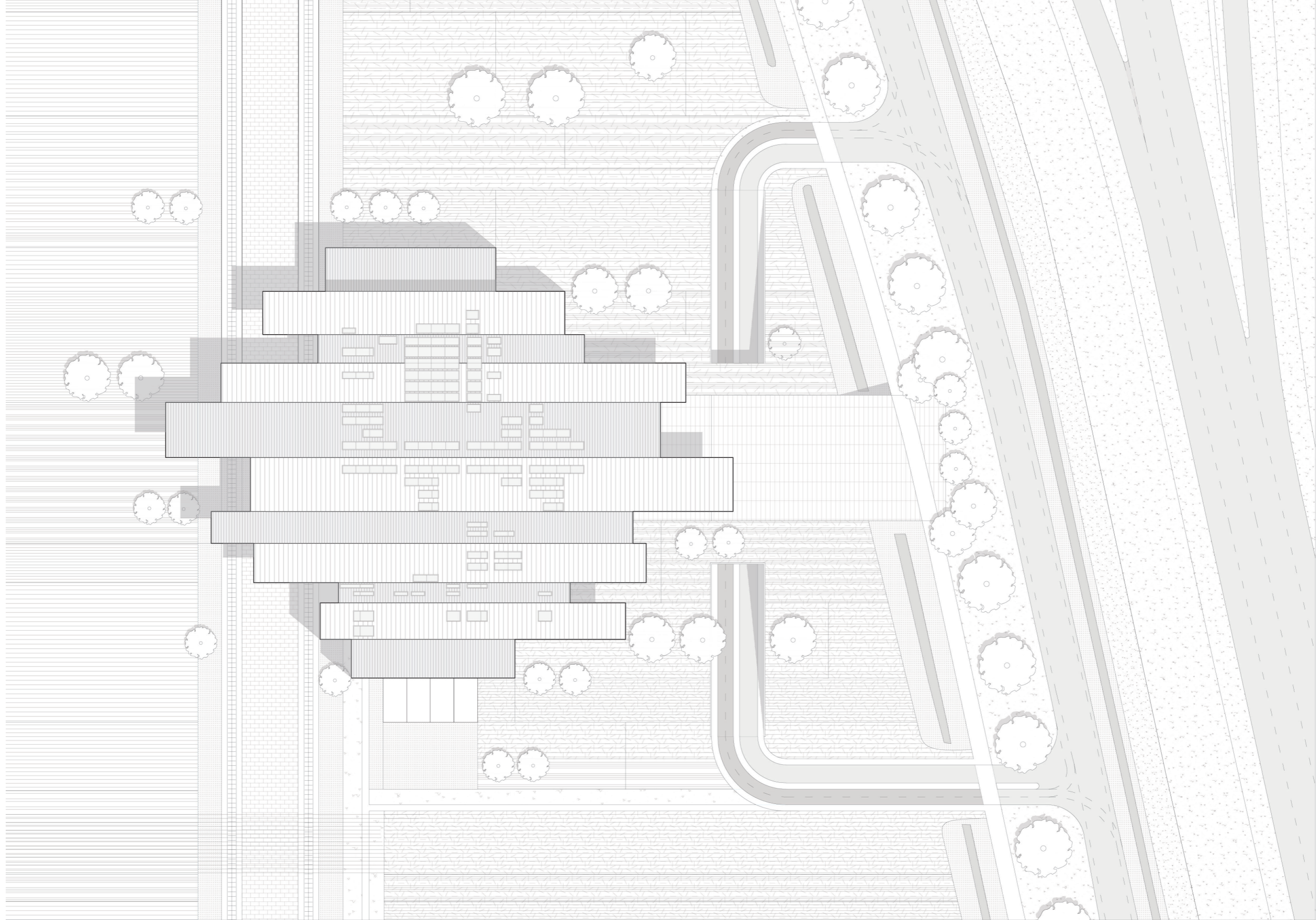






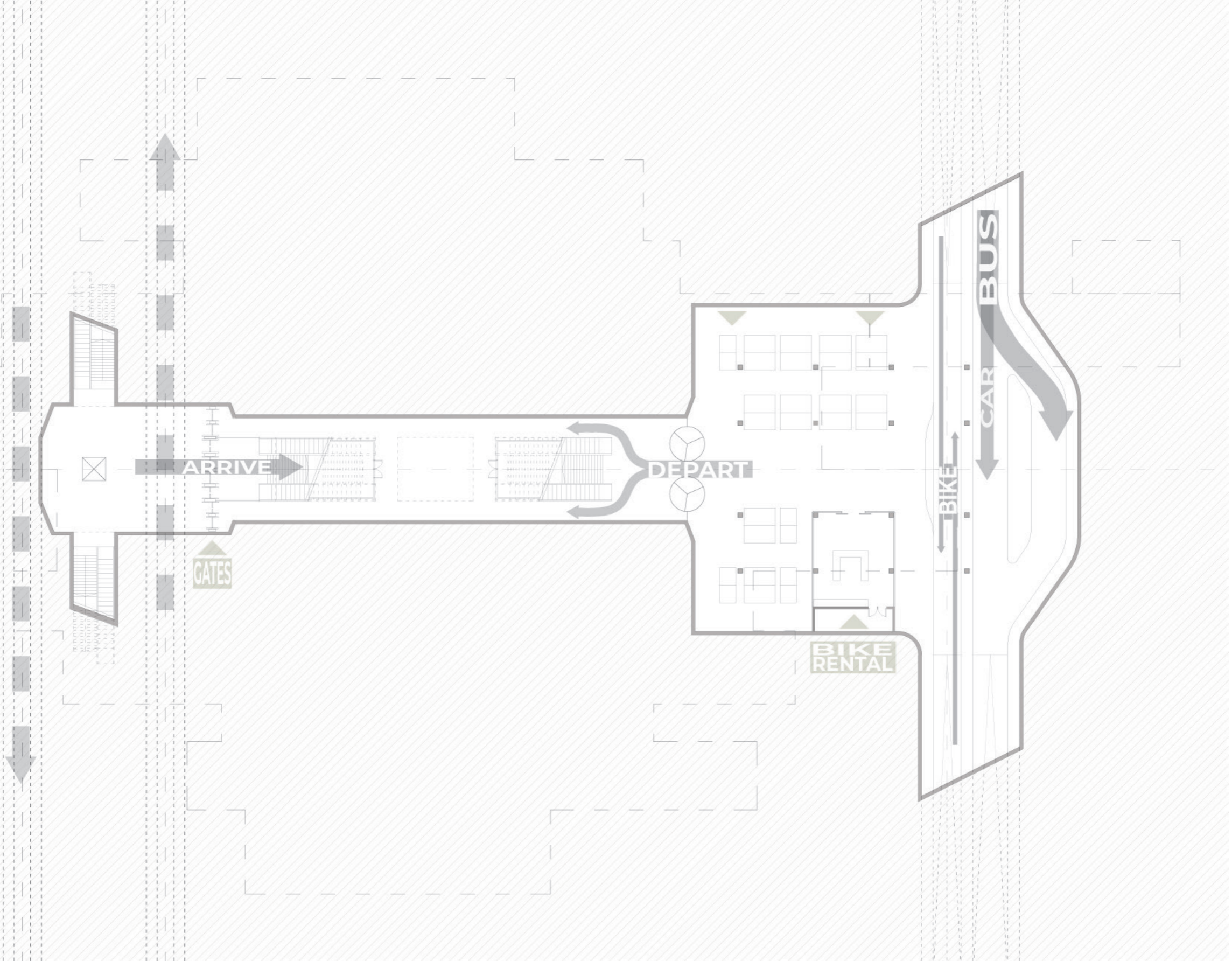








TRAIN



ARRIVE

GATES

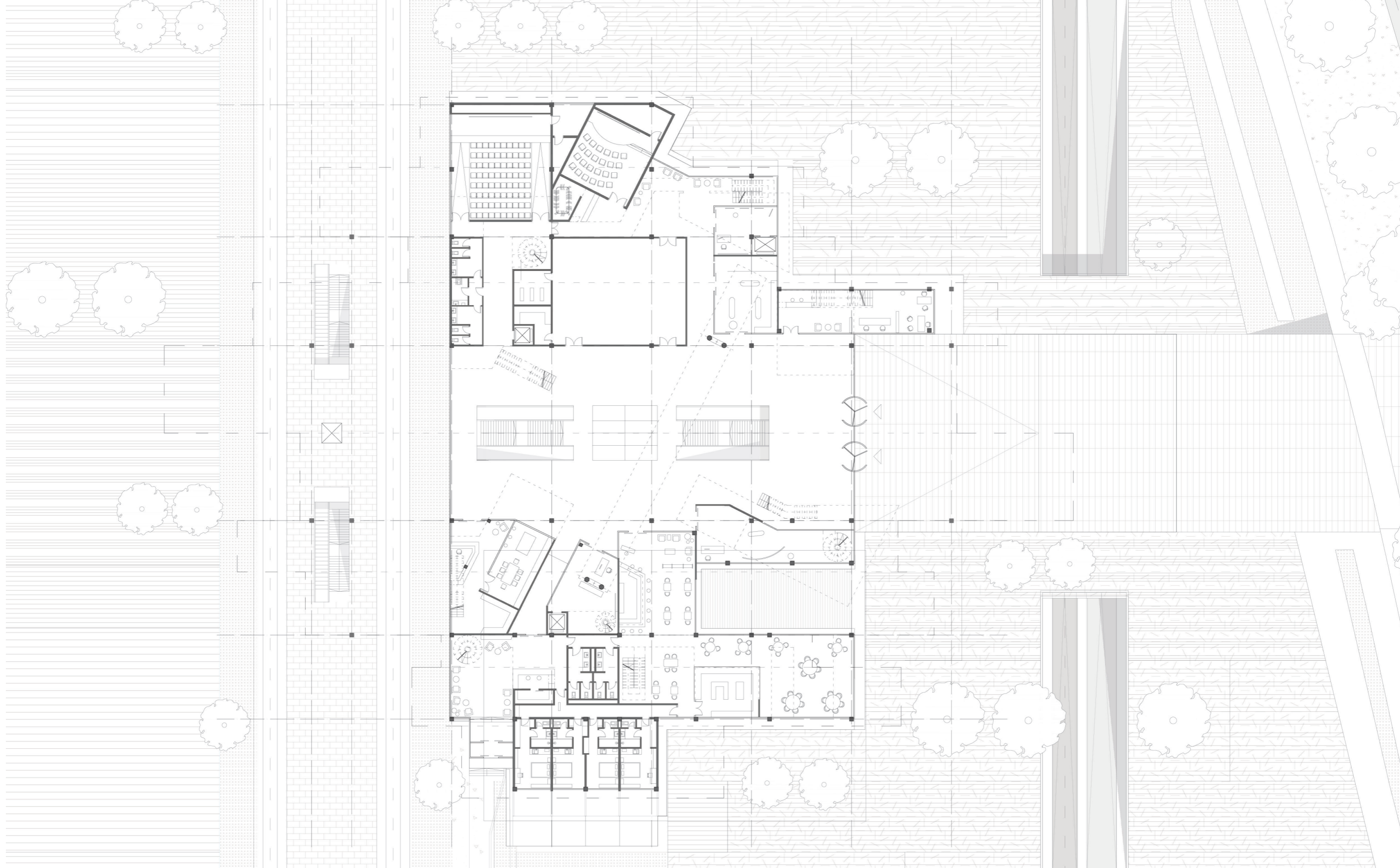
DEPART

BIKE RENTAL

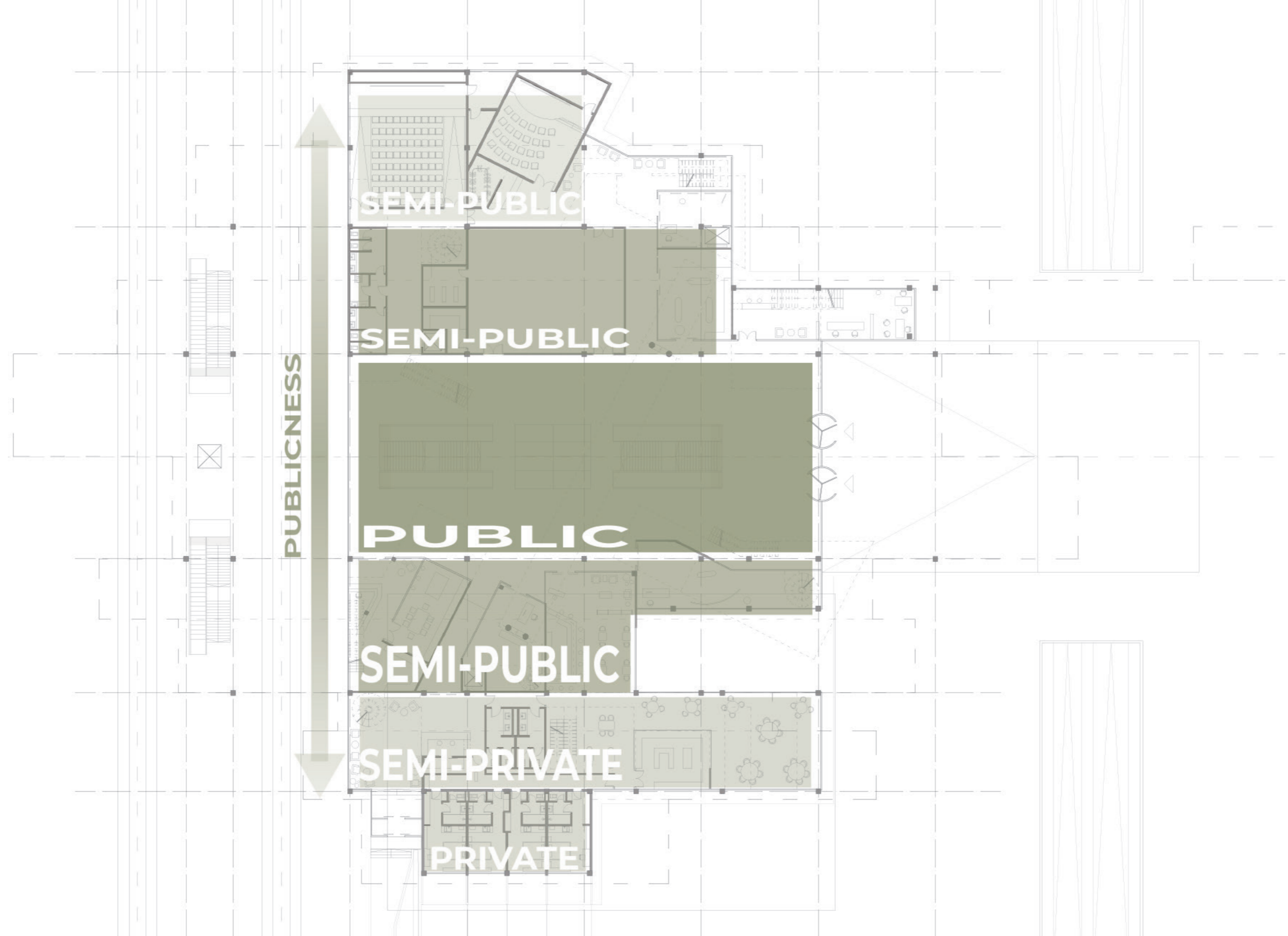
BIKE

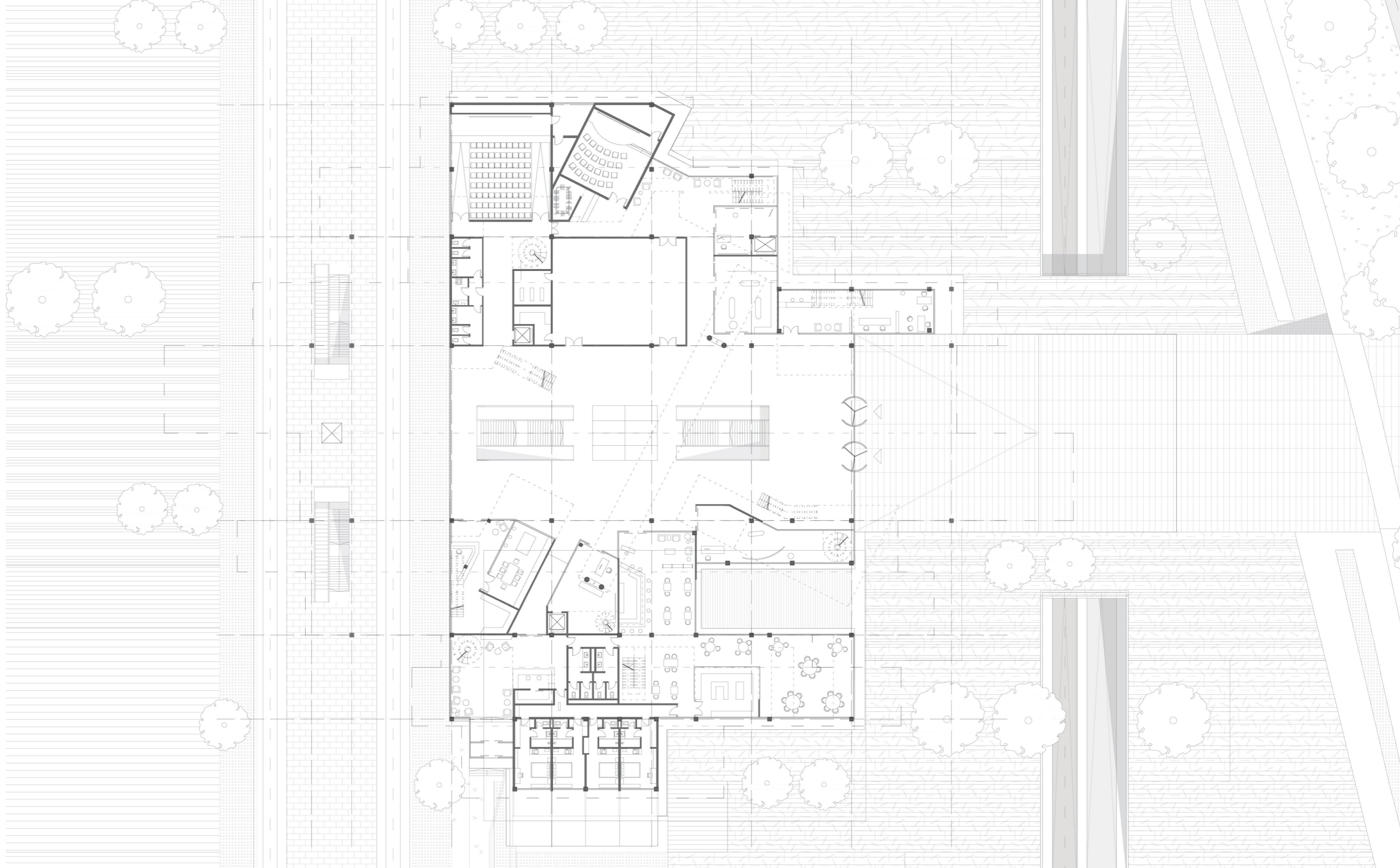
CAR BUS



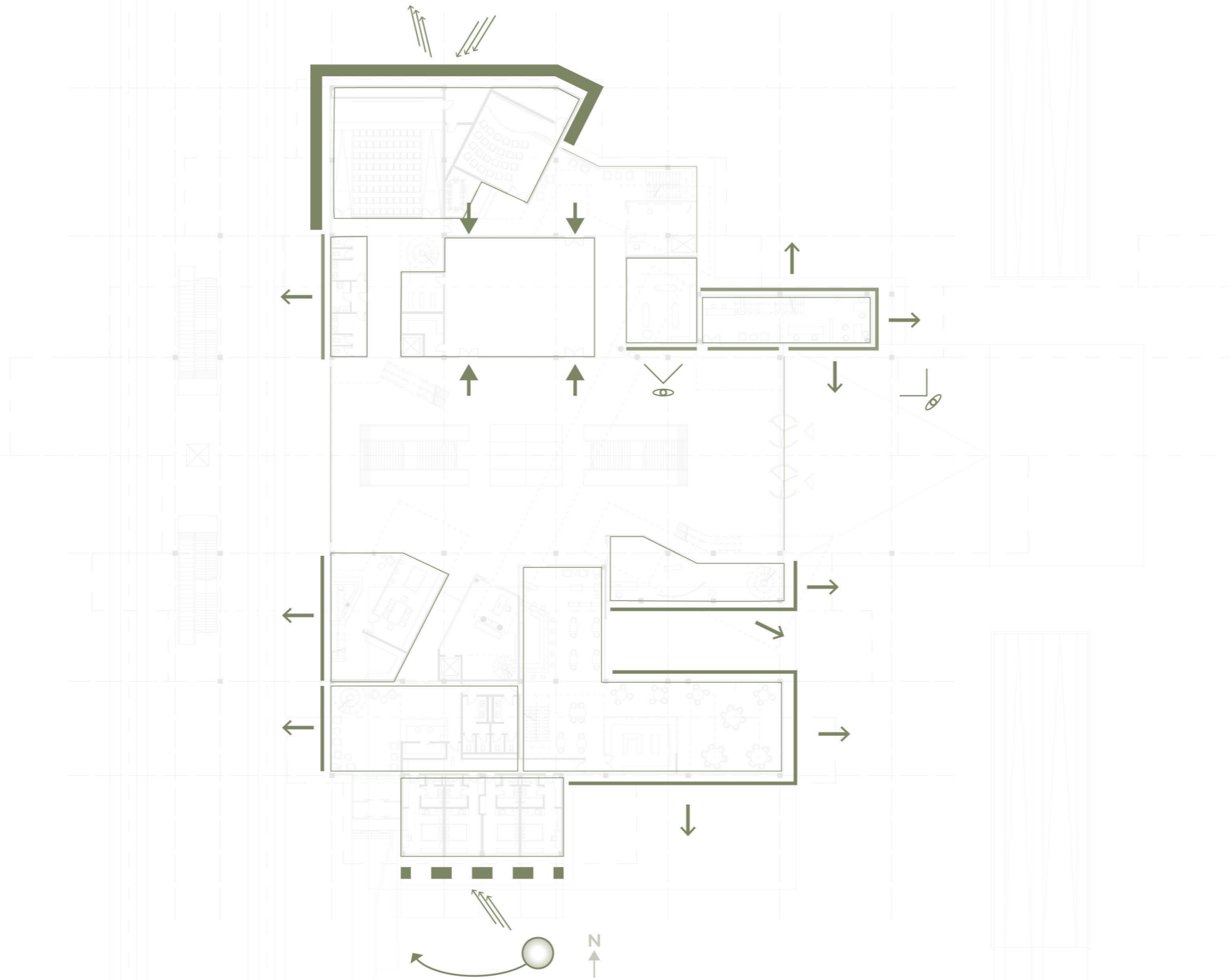


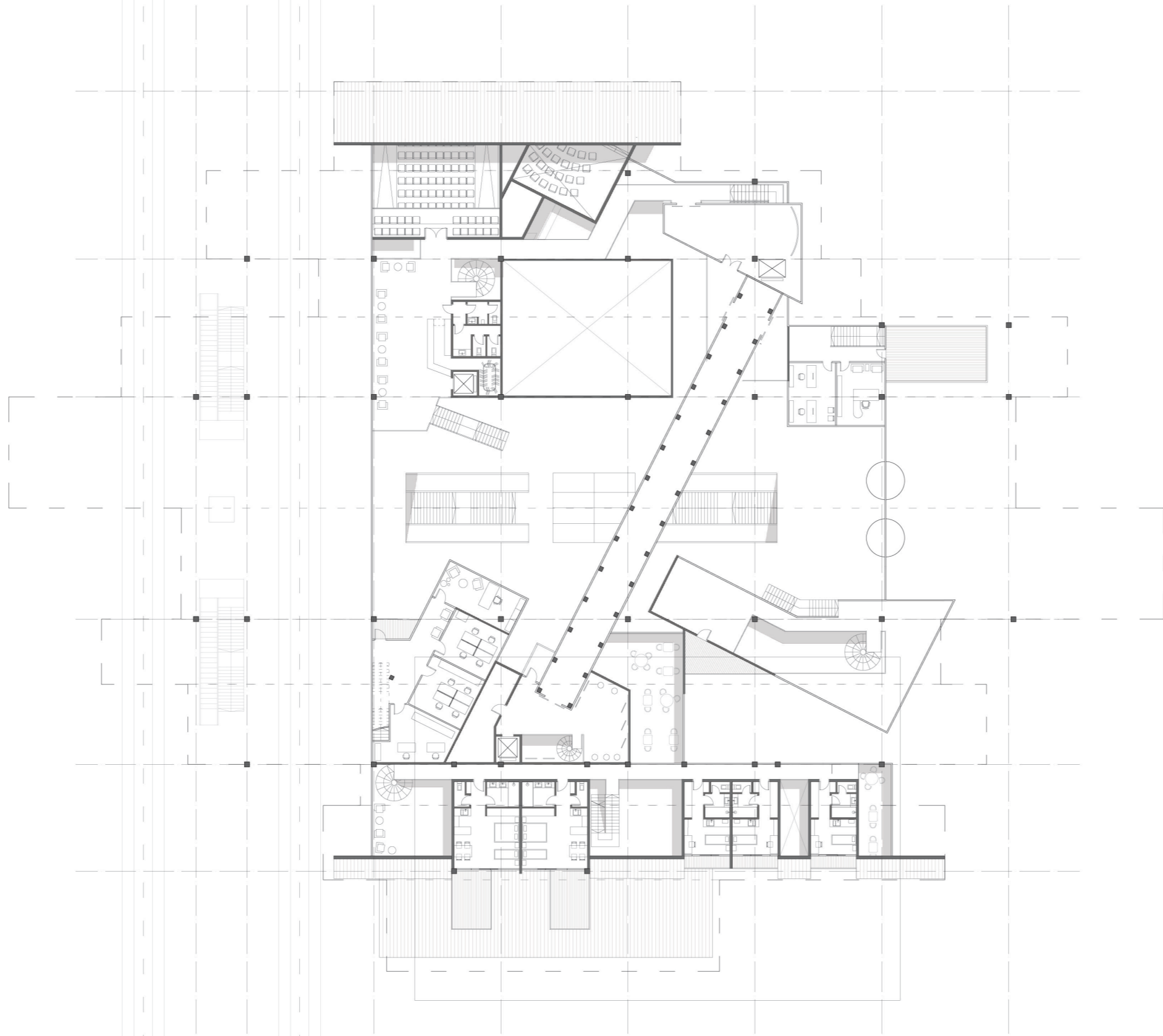


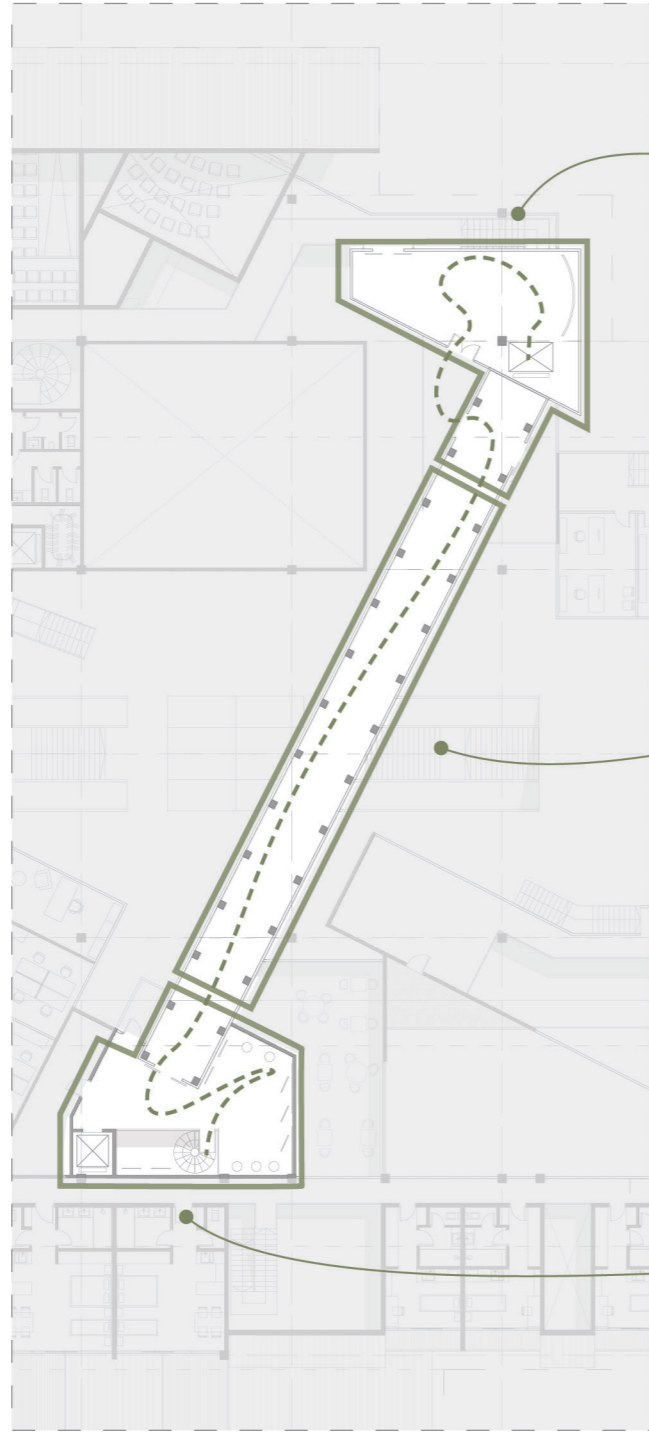








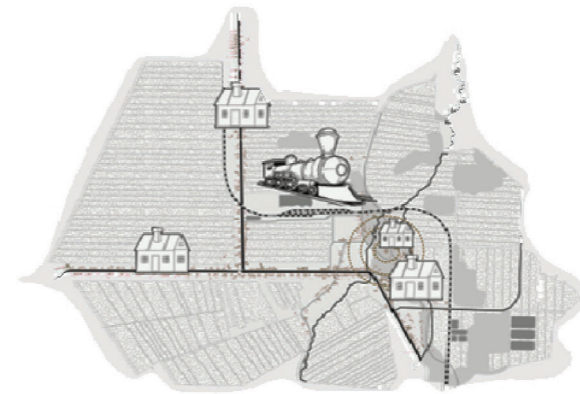




Monastery

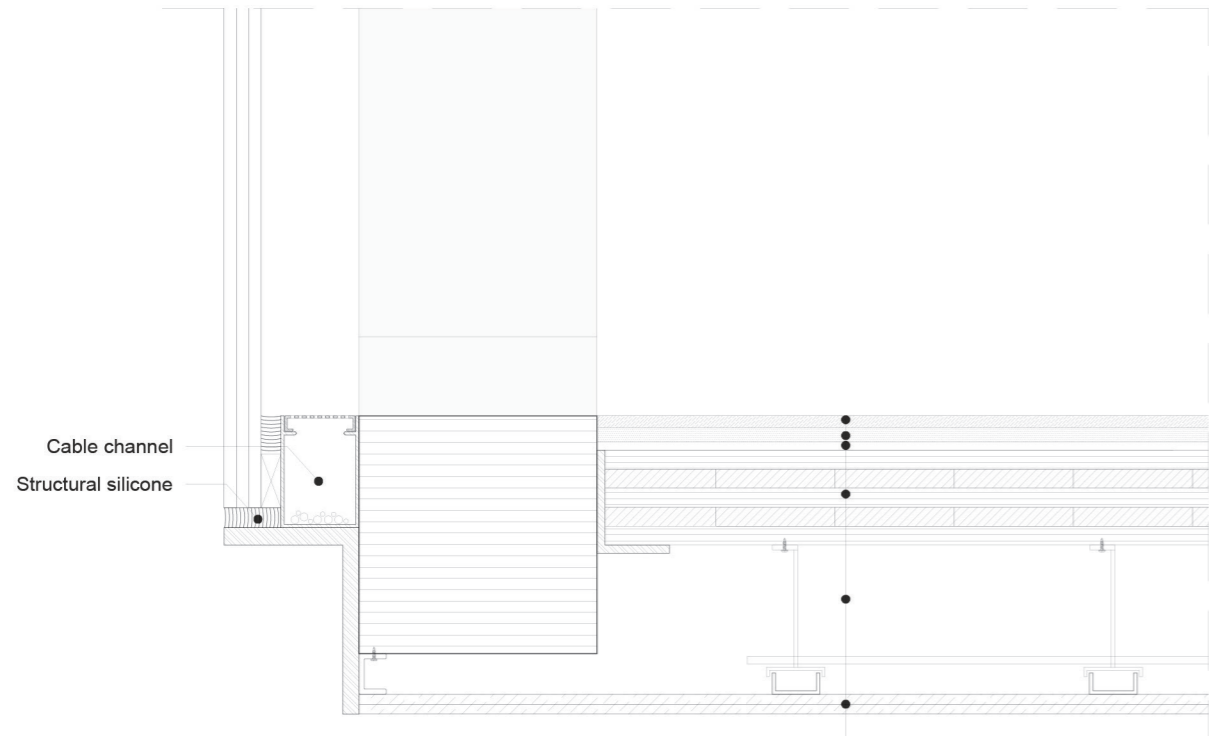


Landmarks



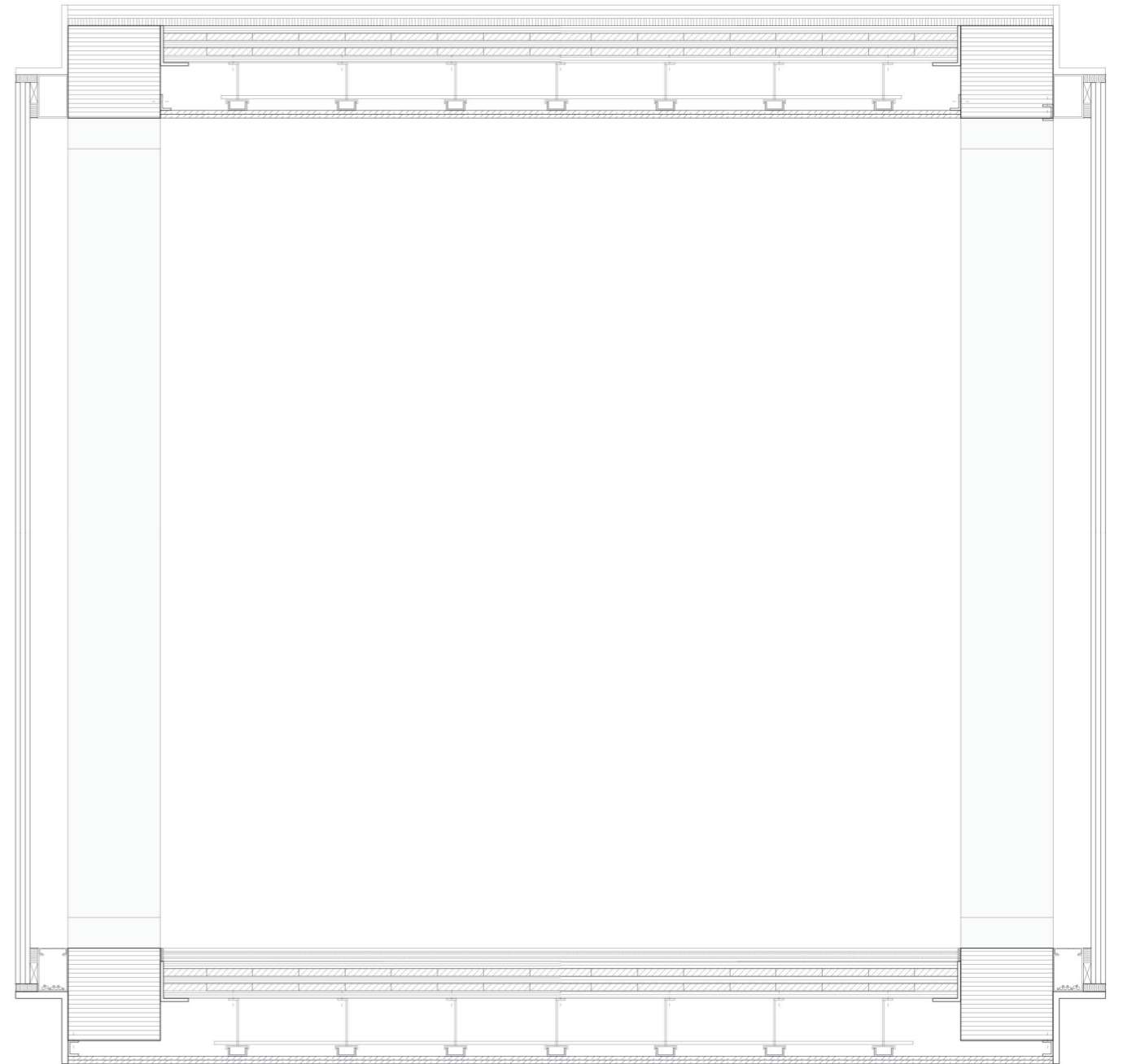
Context





Cable channel
Structural silicone

- Forbo marmoleum
- Dry screed 18mm
- Wood fiber boards 10mm
- CLT slab 120 mm
- Suspended roof substructure 180mm
- Gypsum boards 2x12.5 mm



Unit types

A

Unit

Quantity:

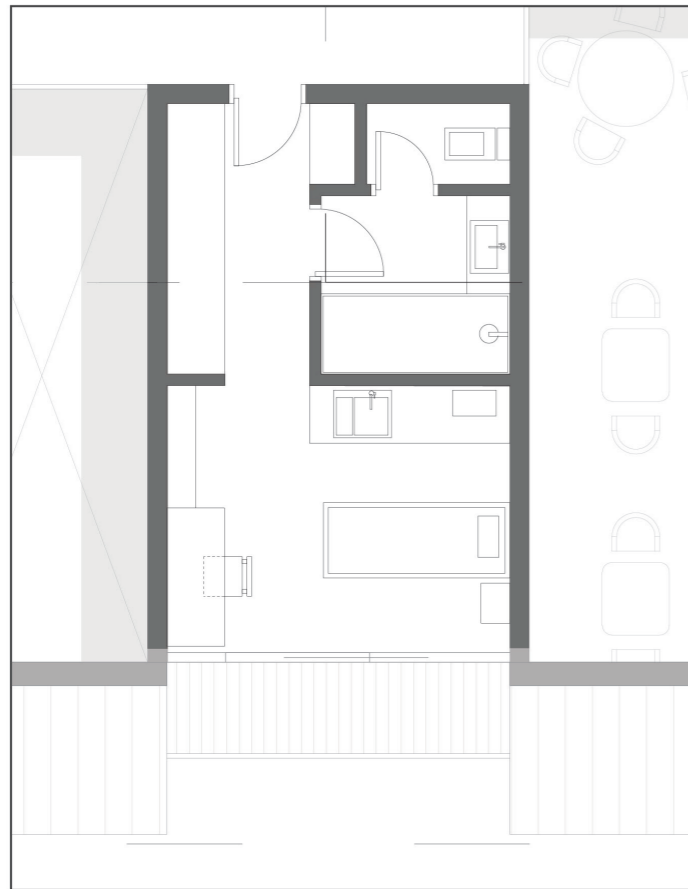
x4

Capacity:



Size:

20m²



B

Unit:

Quantity:

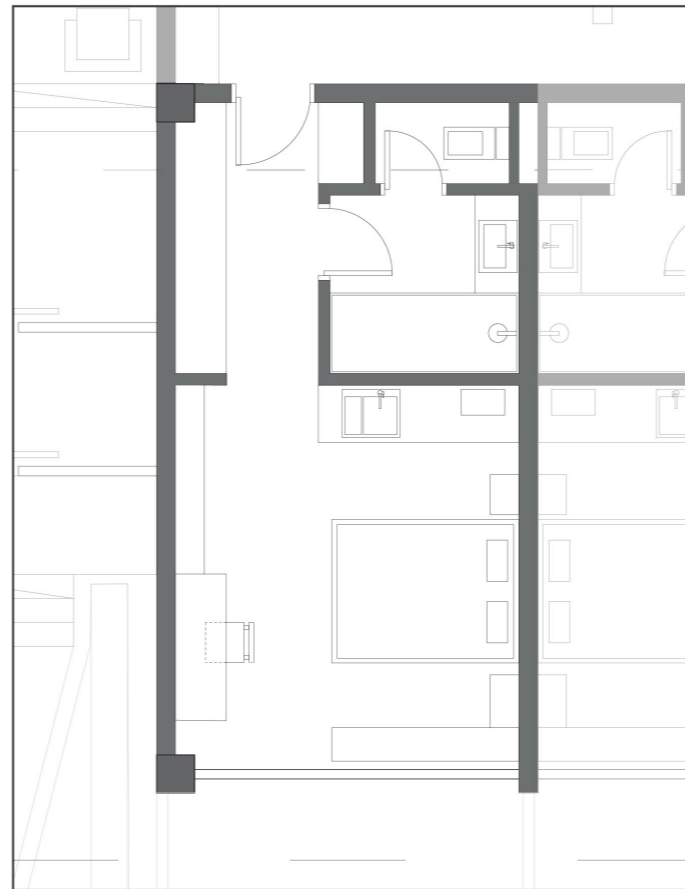
x3

Capacity:



Size:

25m²



C

Unit

Quantity:

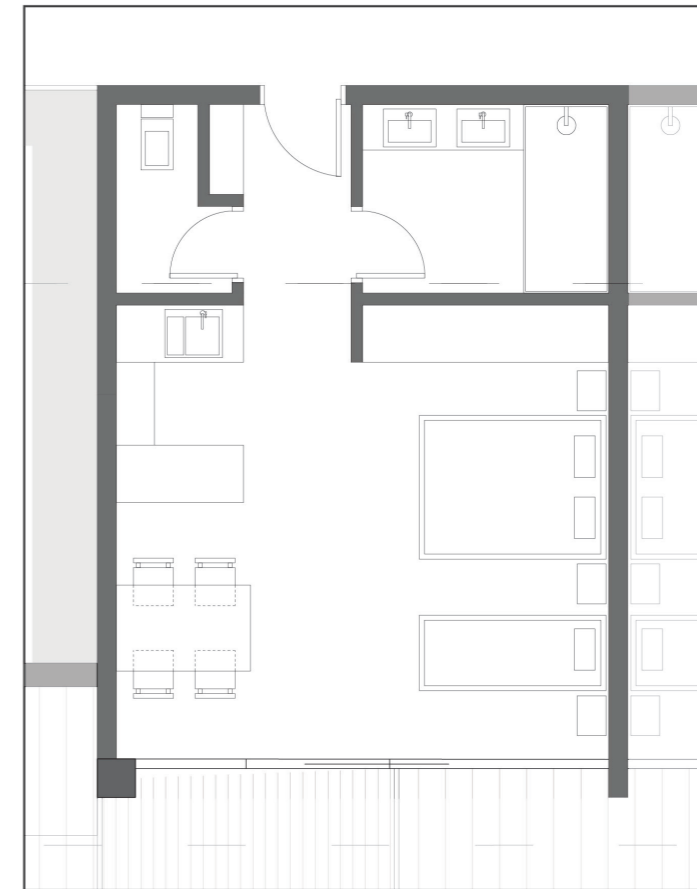
x2

Capacity:

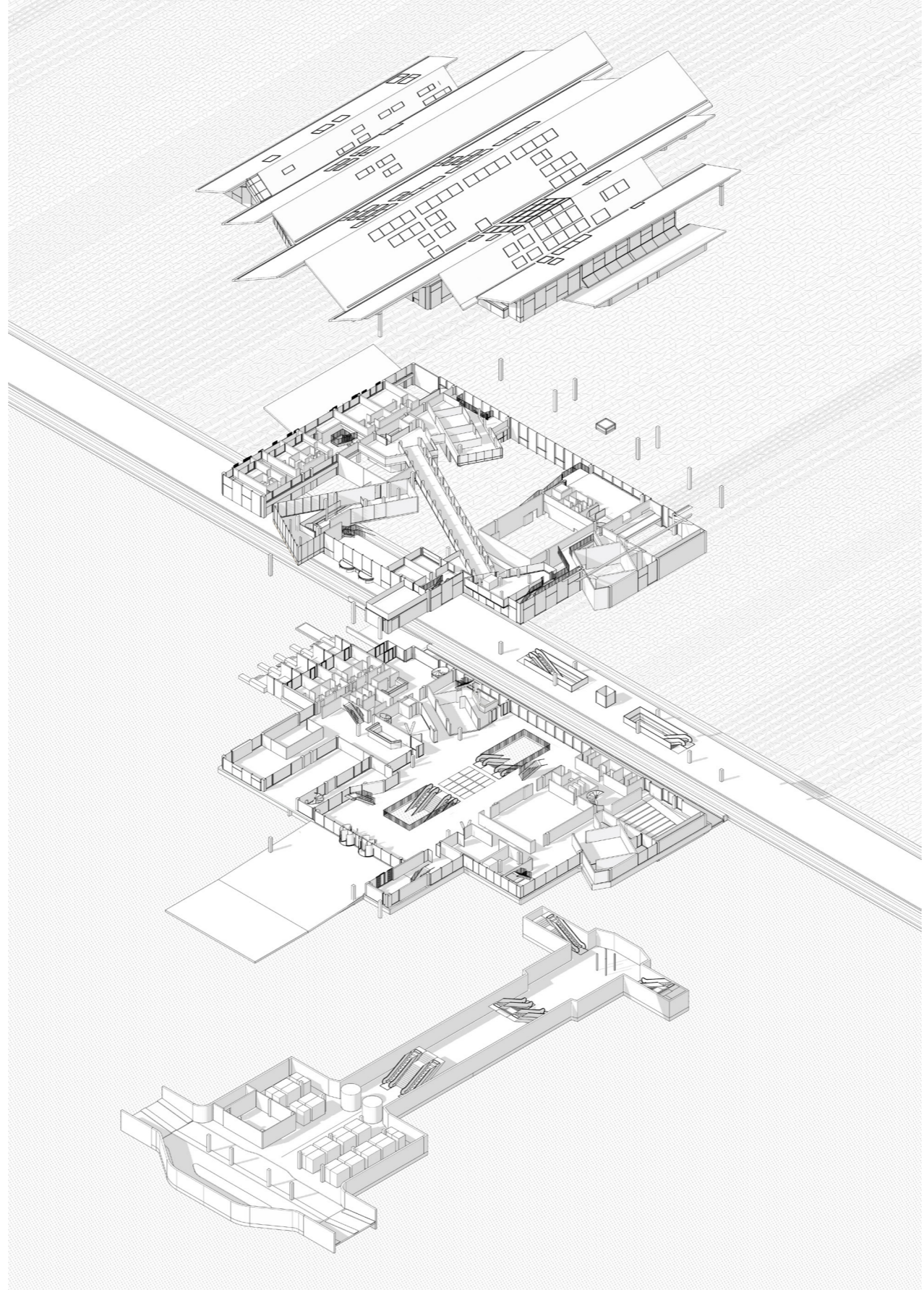


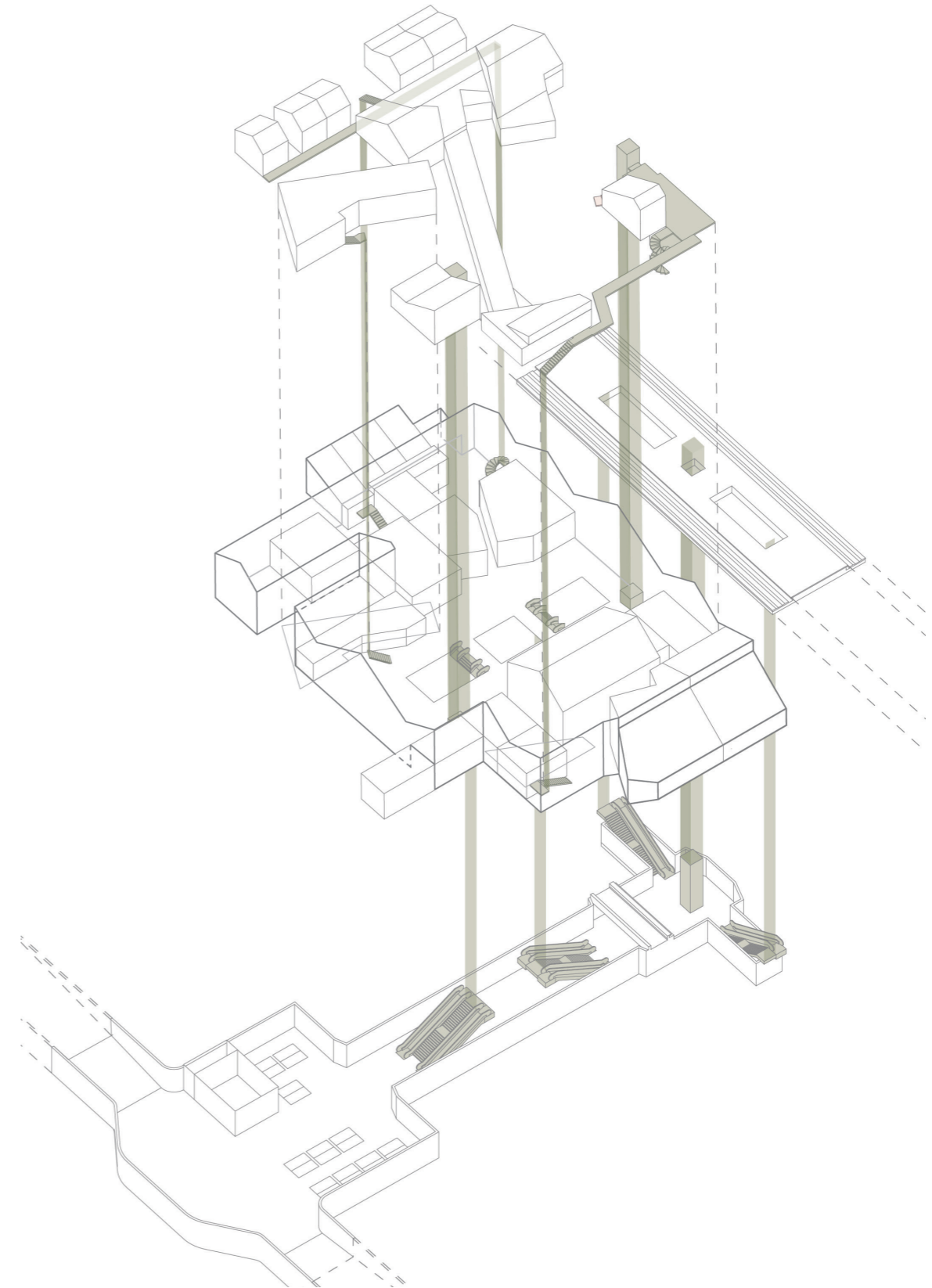
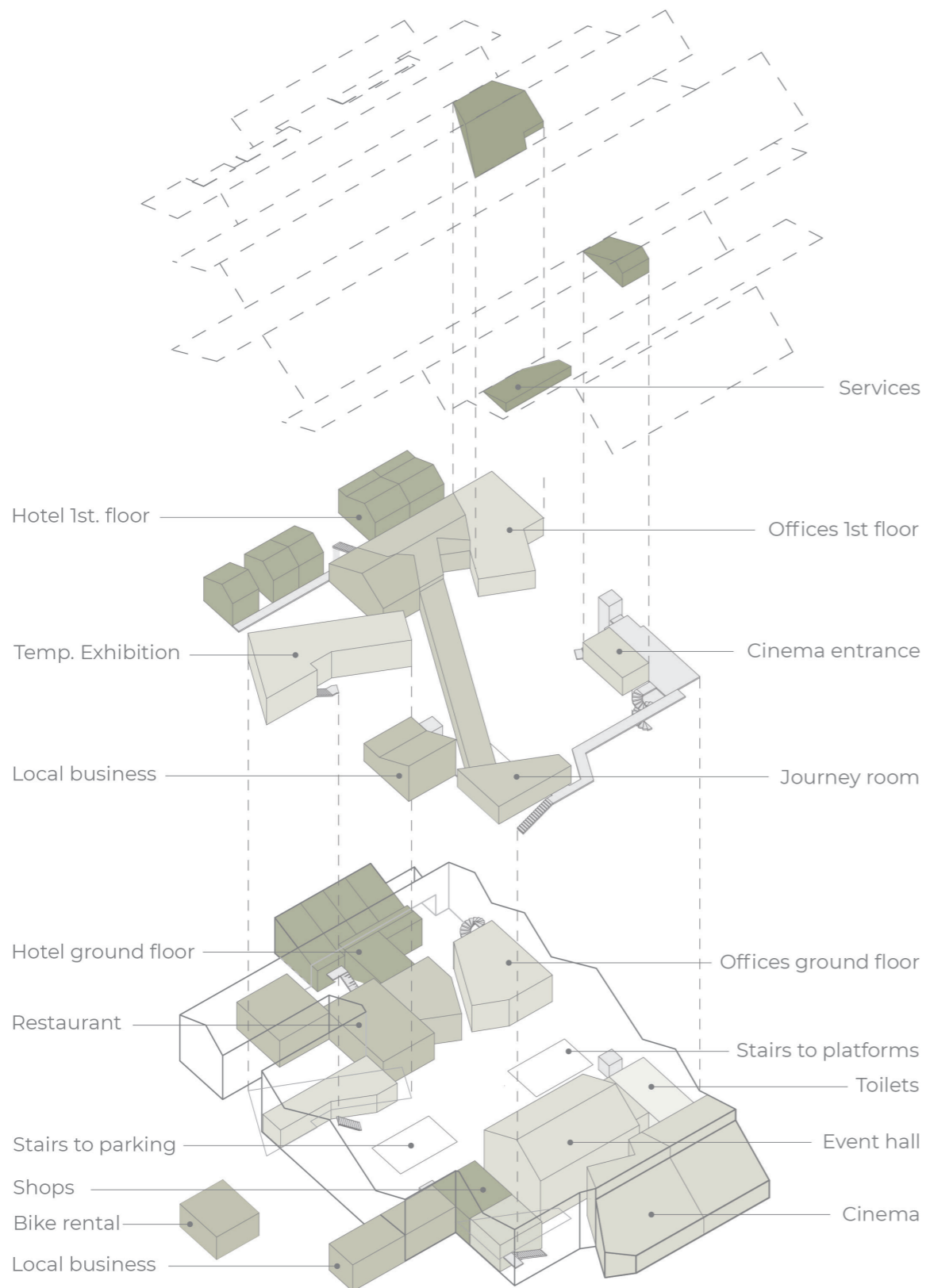
Size:

35m²

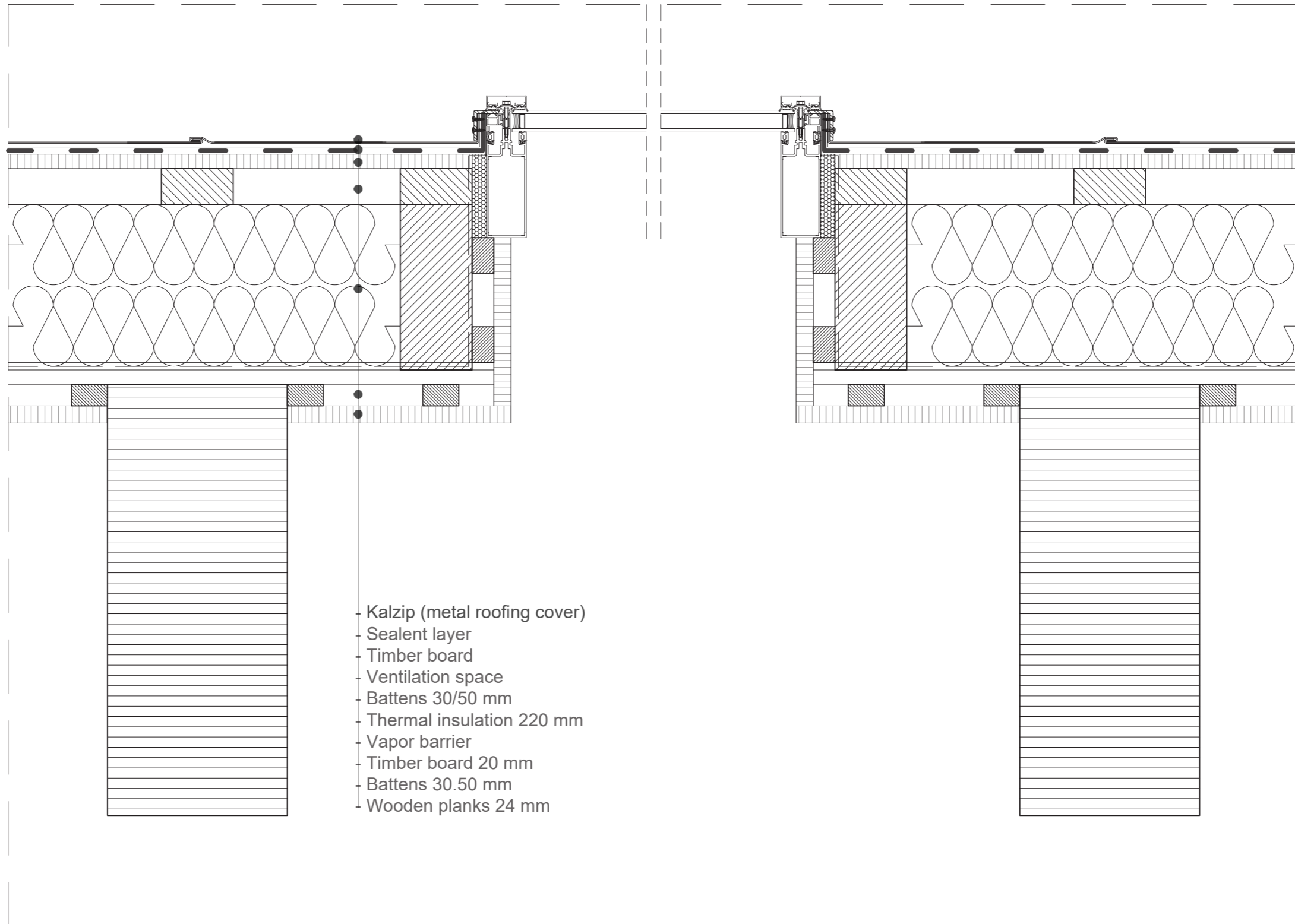


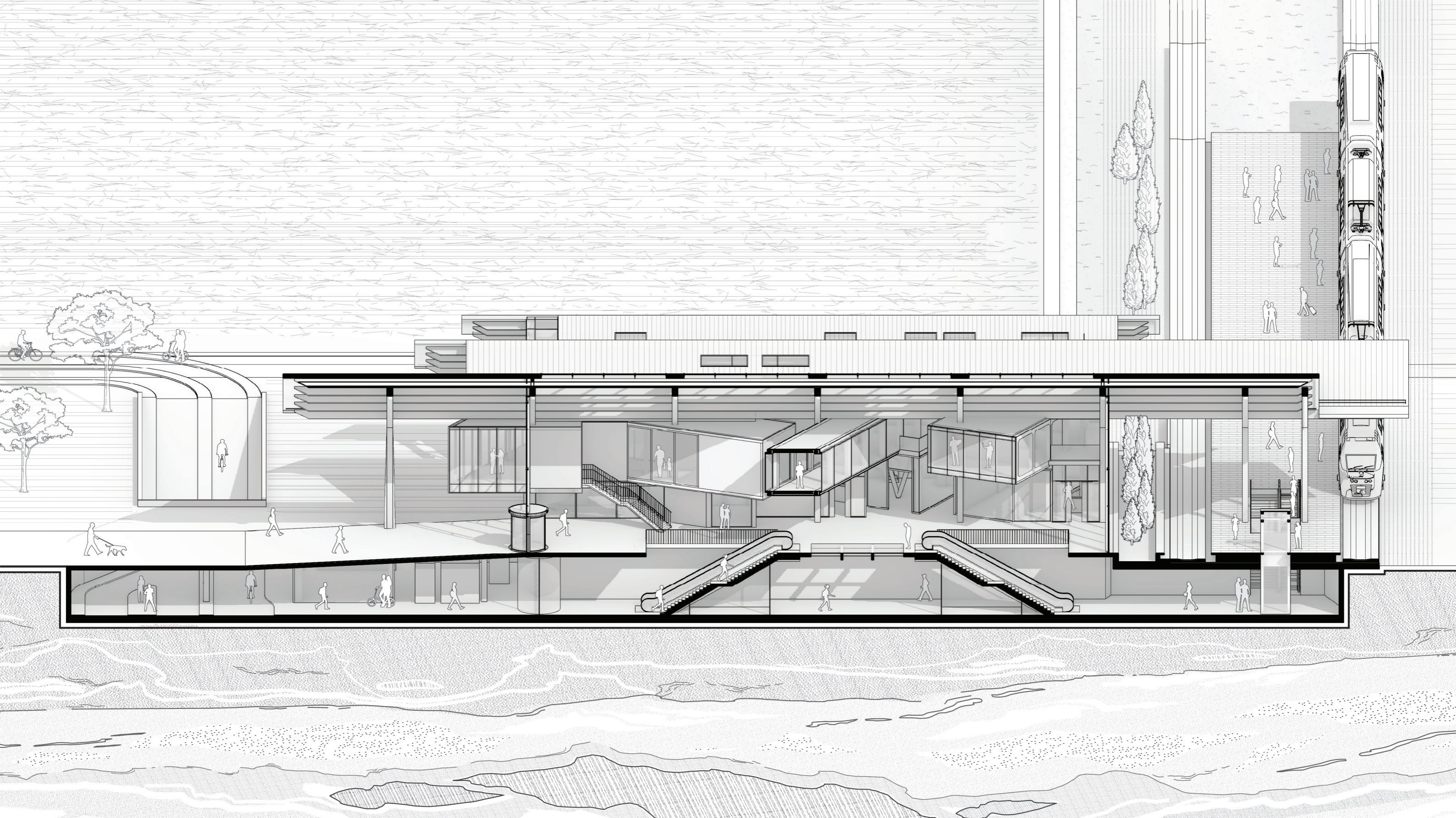


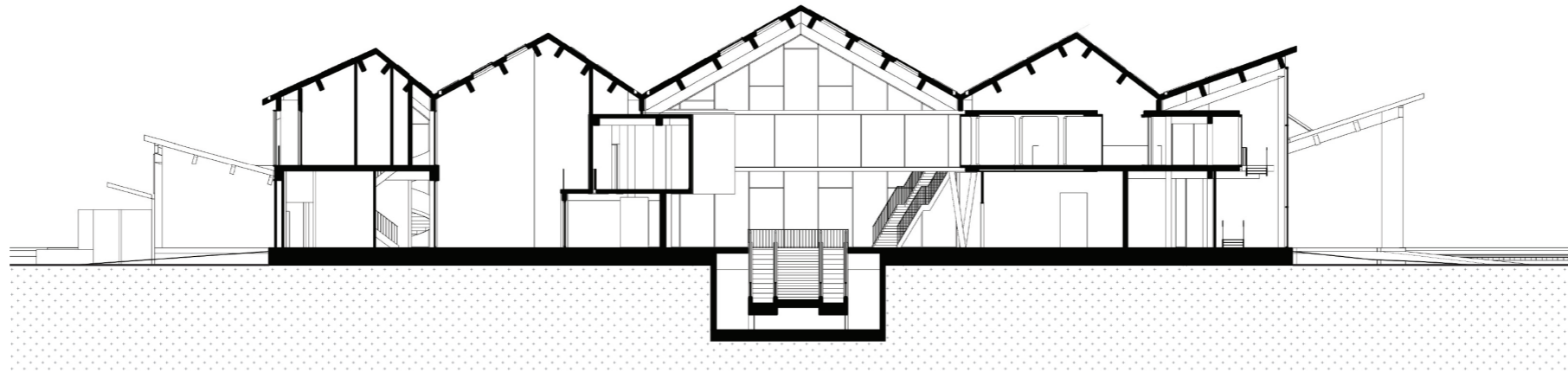
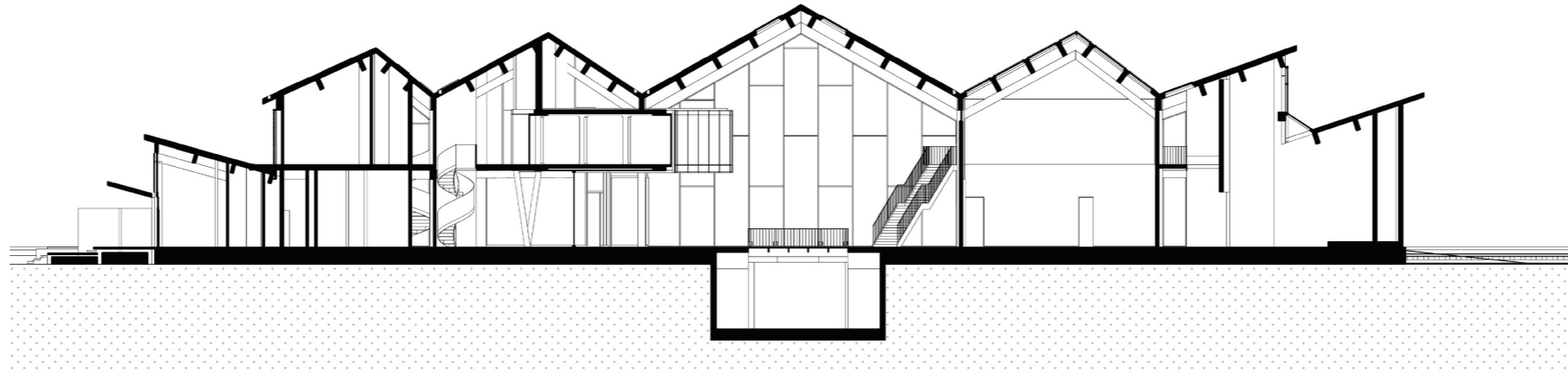




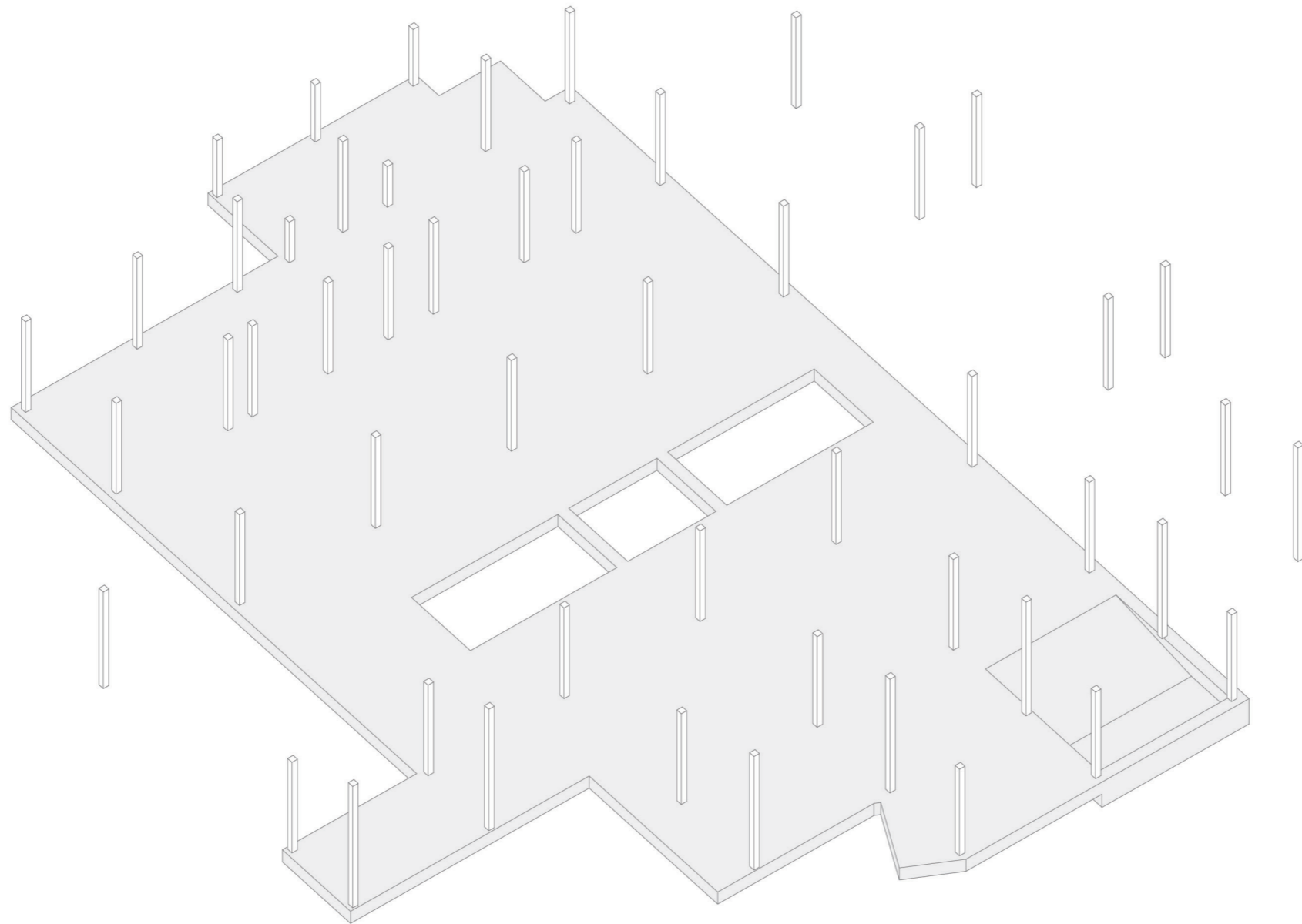




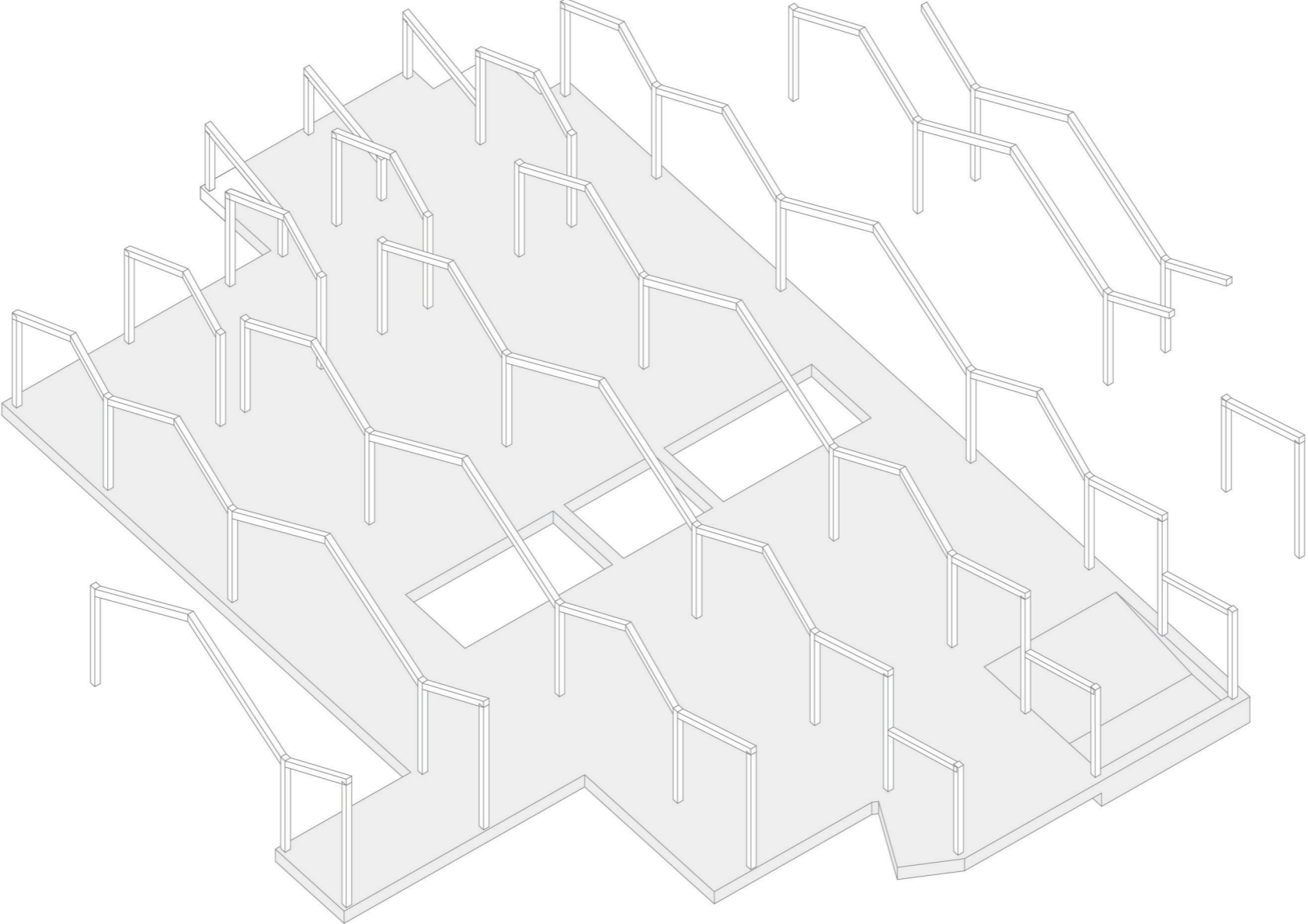




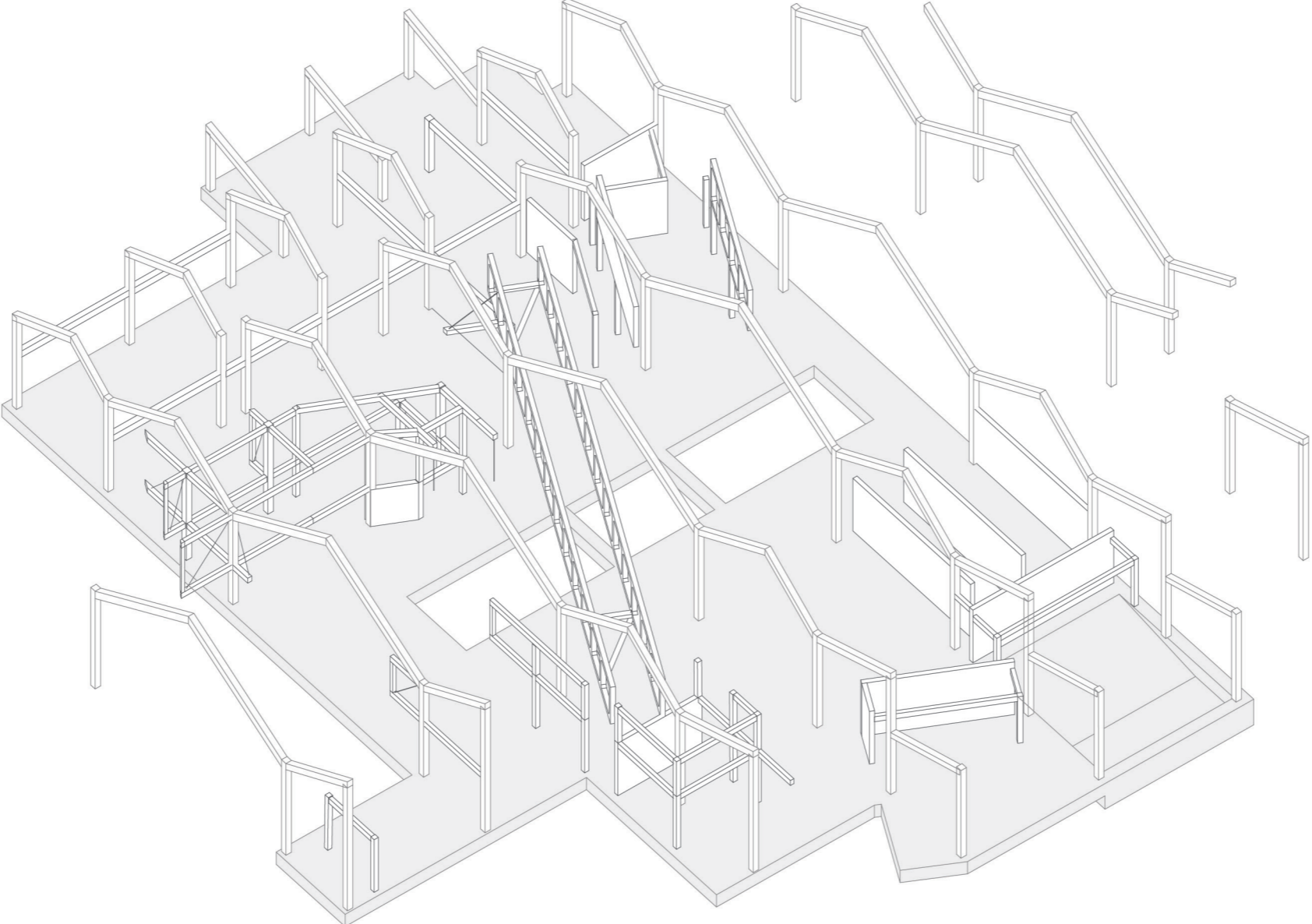




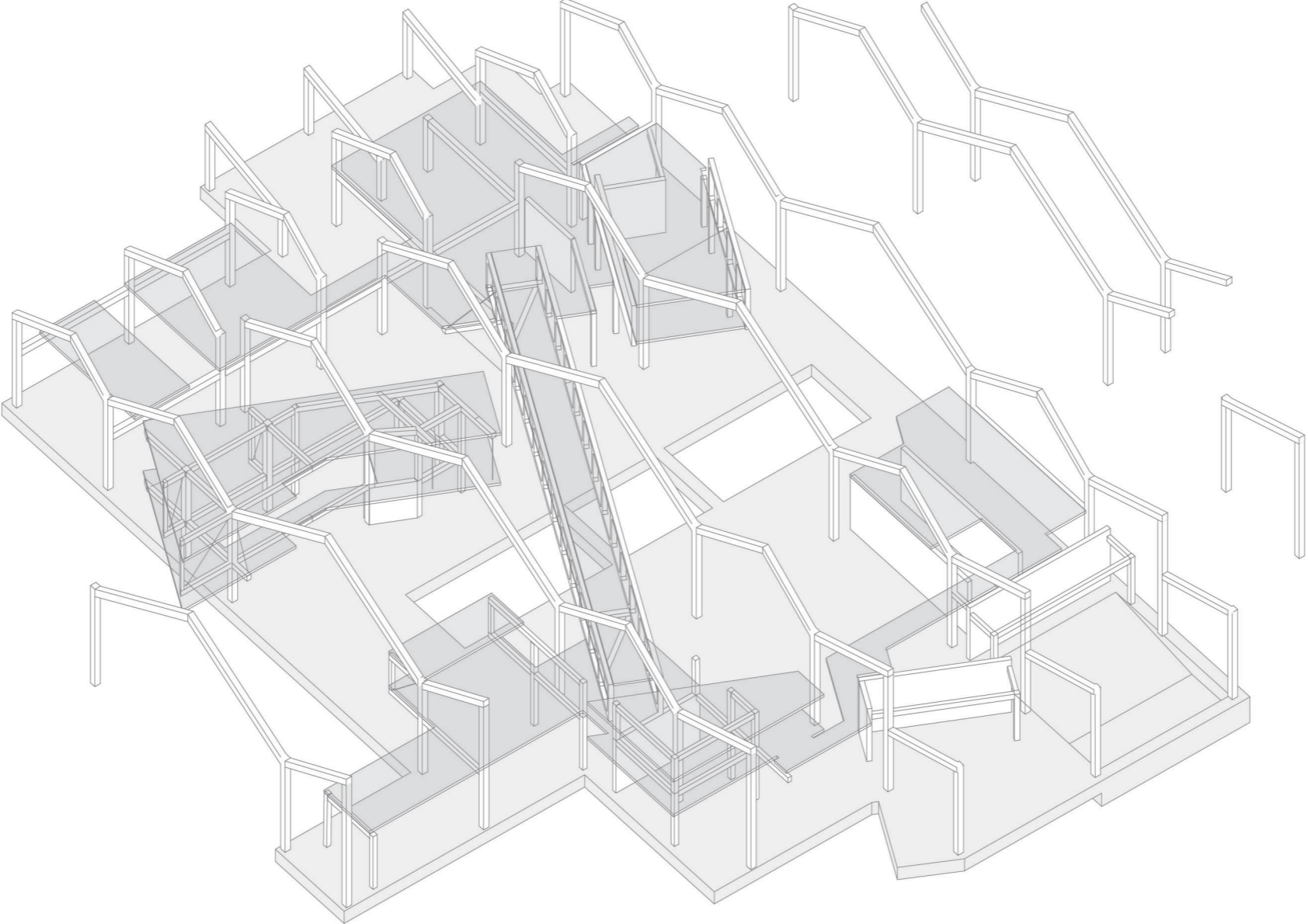
Columns



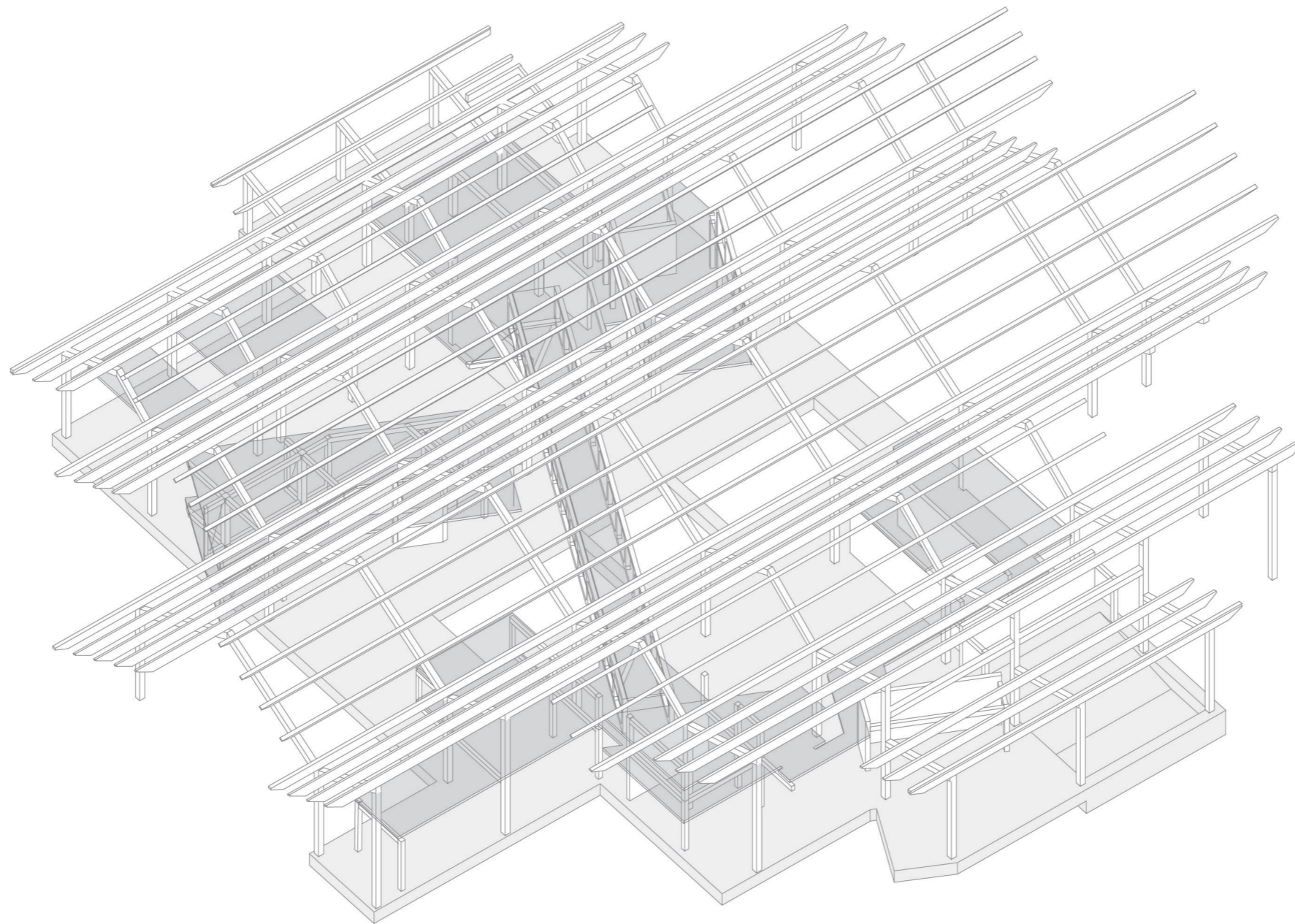
Portal Beams



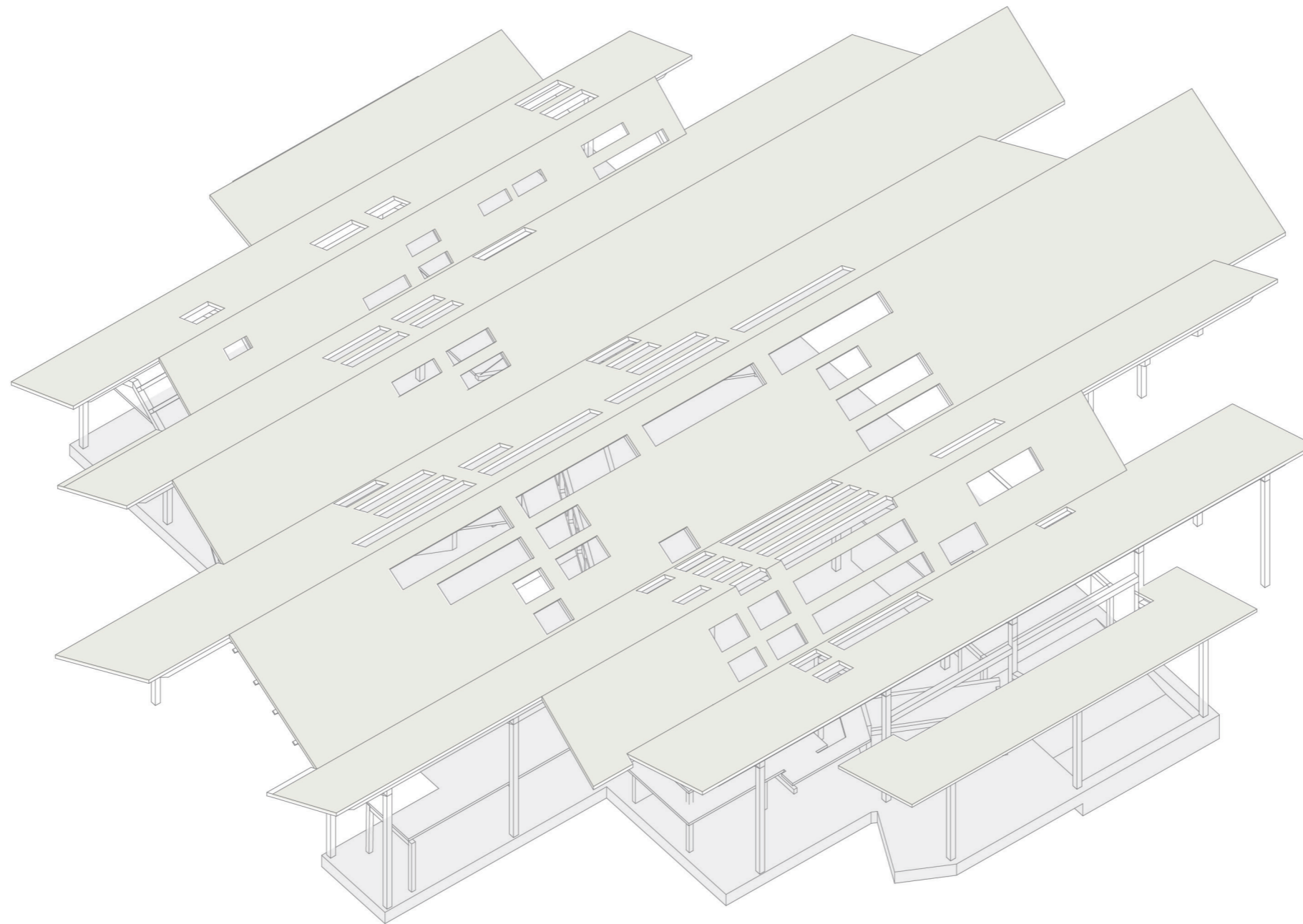
Interior volume structure



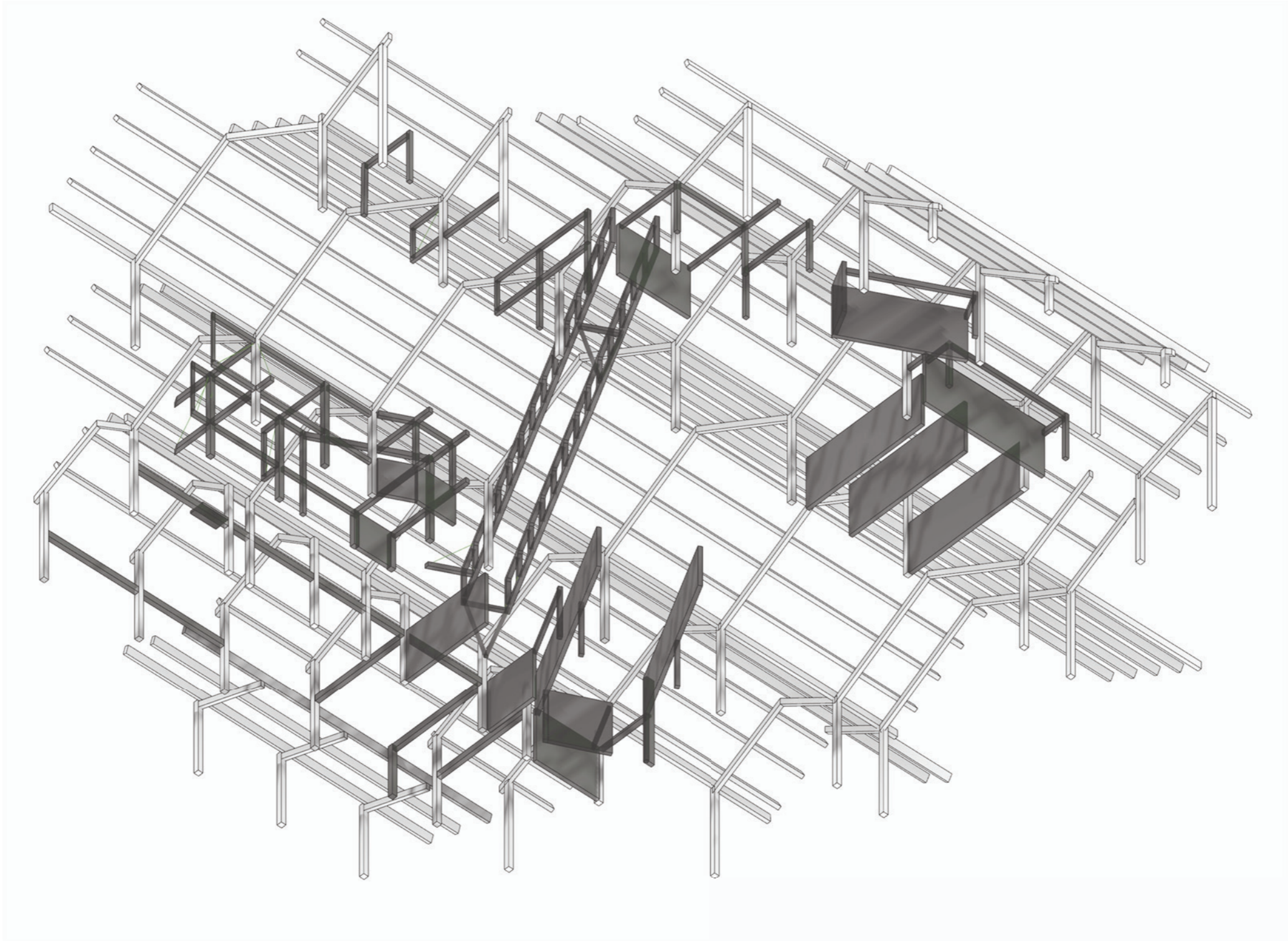
Level 1 slabs

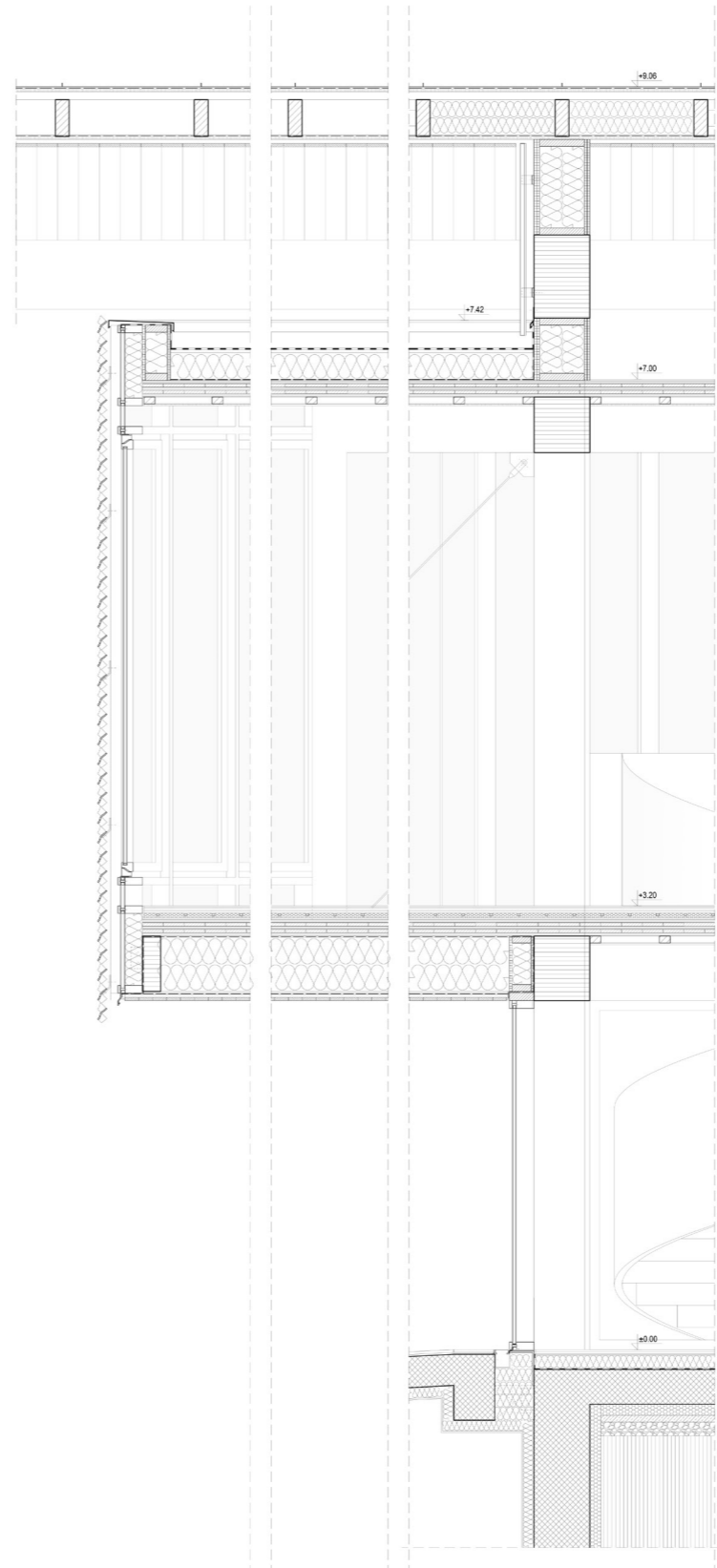
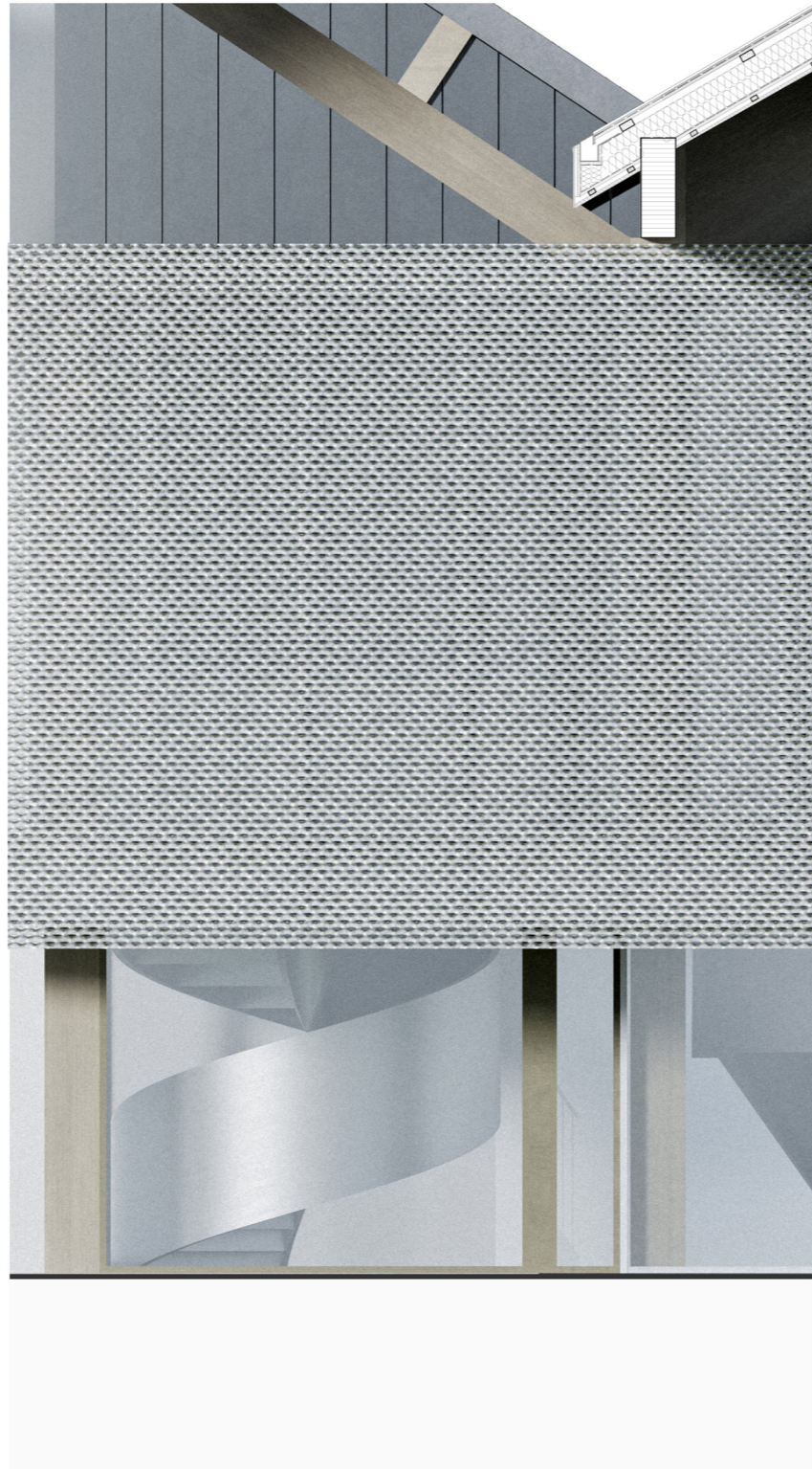


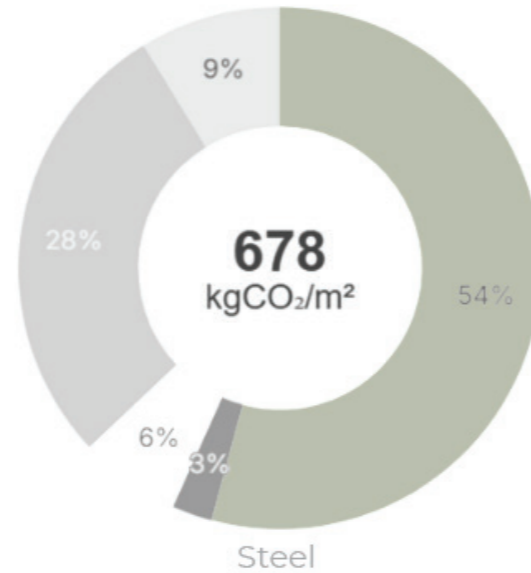
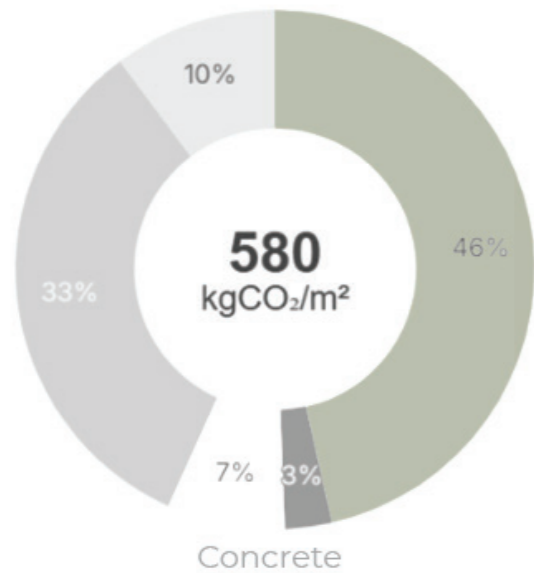
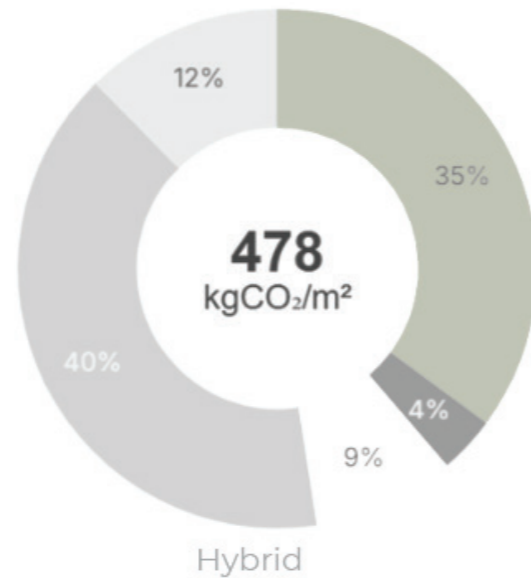
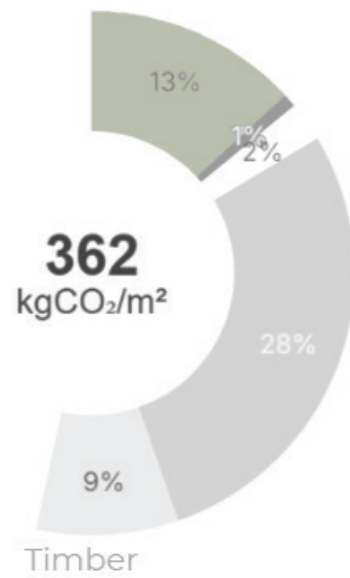
Ribs



Roof Cladding

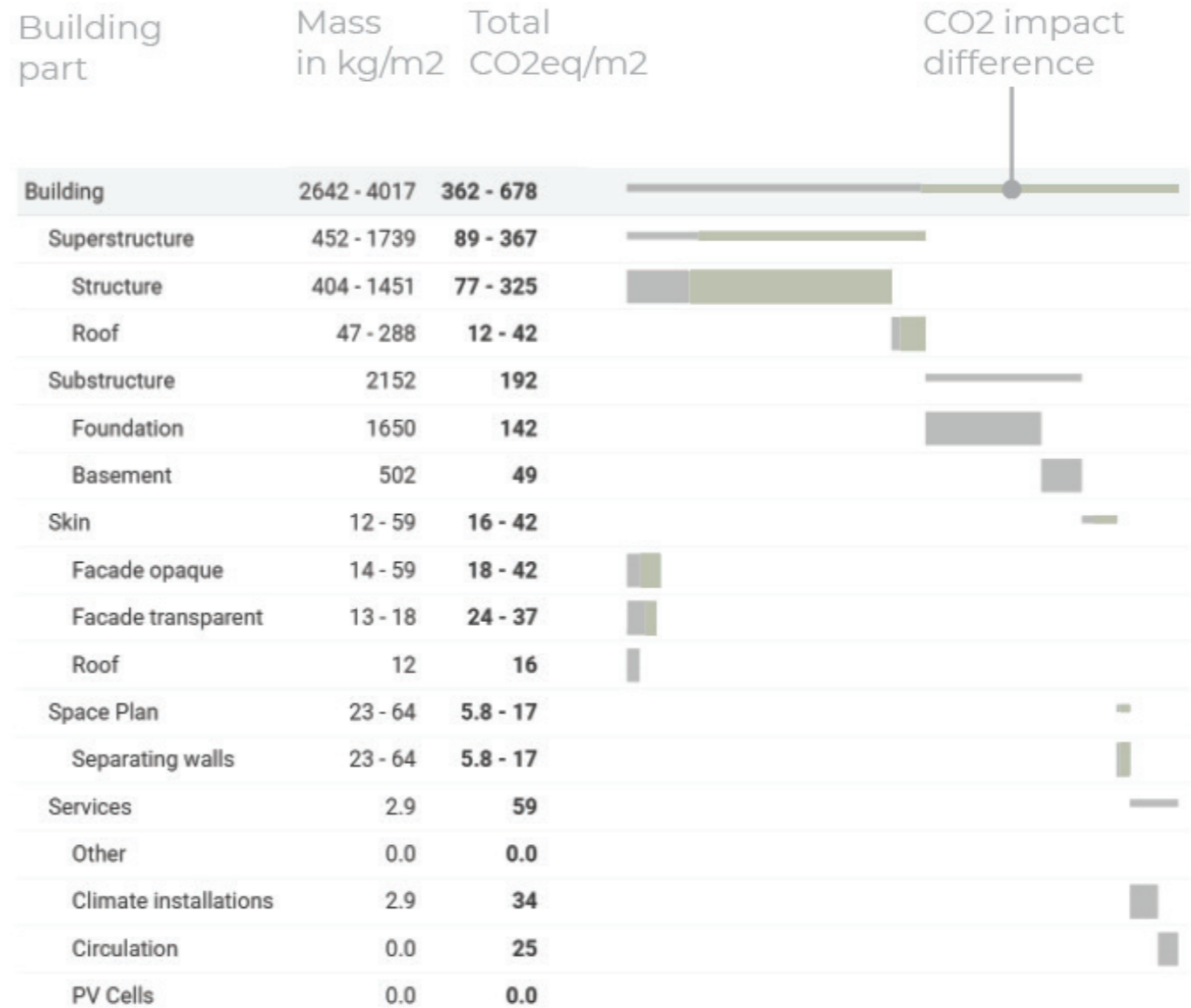




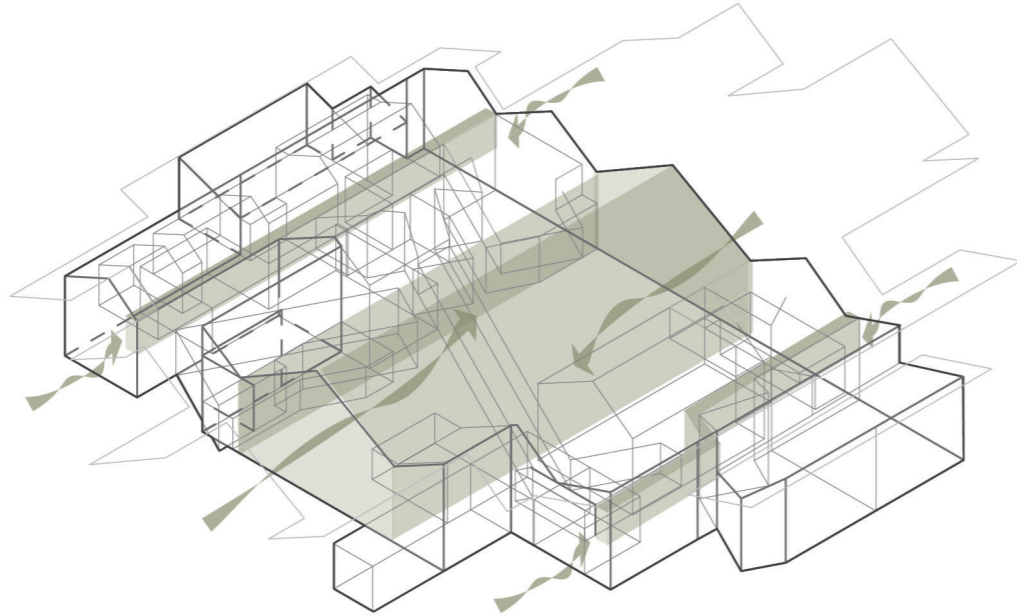


Superstructure
Substructure

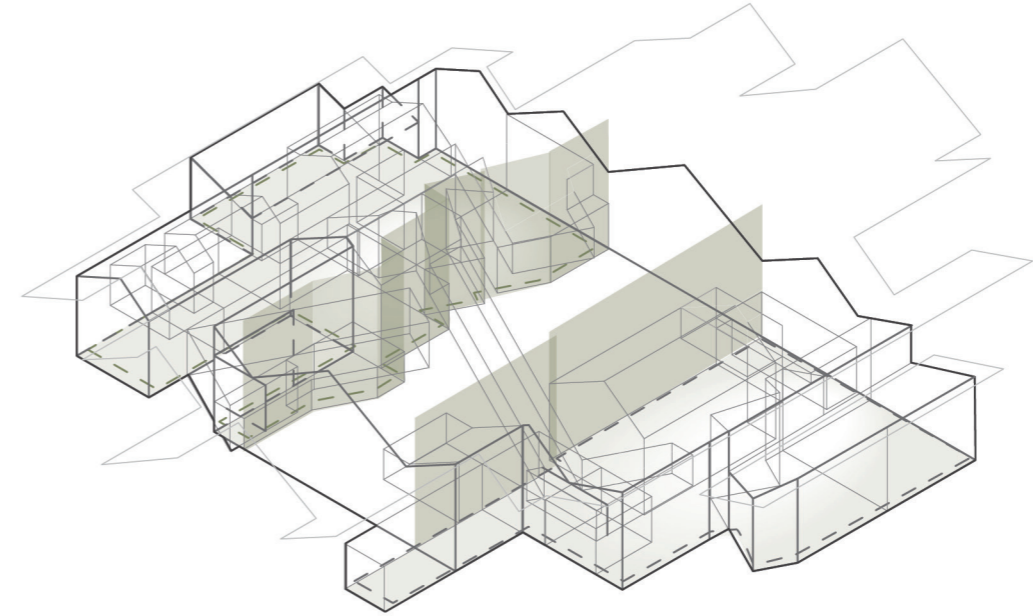
Skin
Space plan



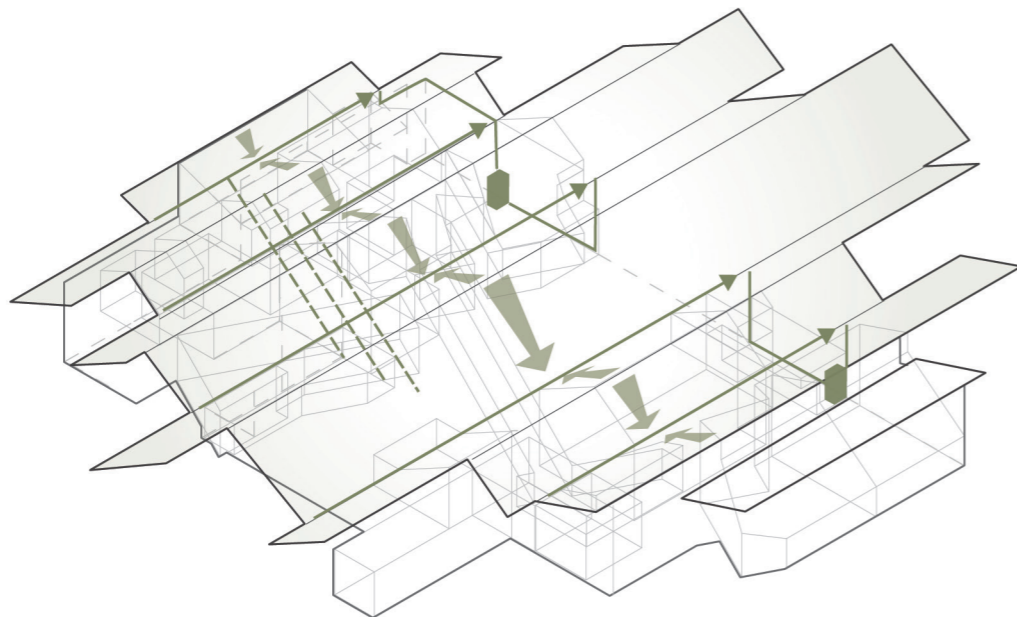
Different superstructure emission impacts - with Carbon Space



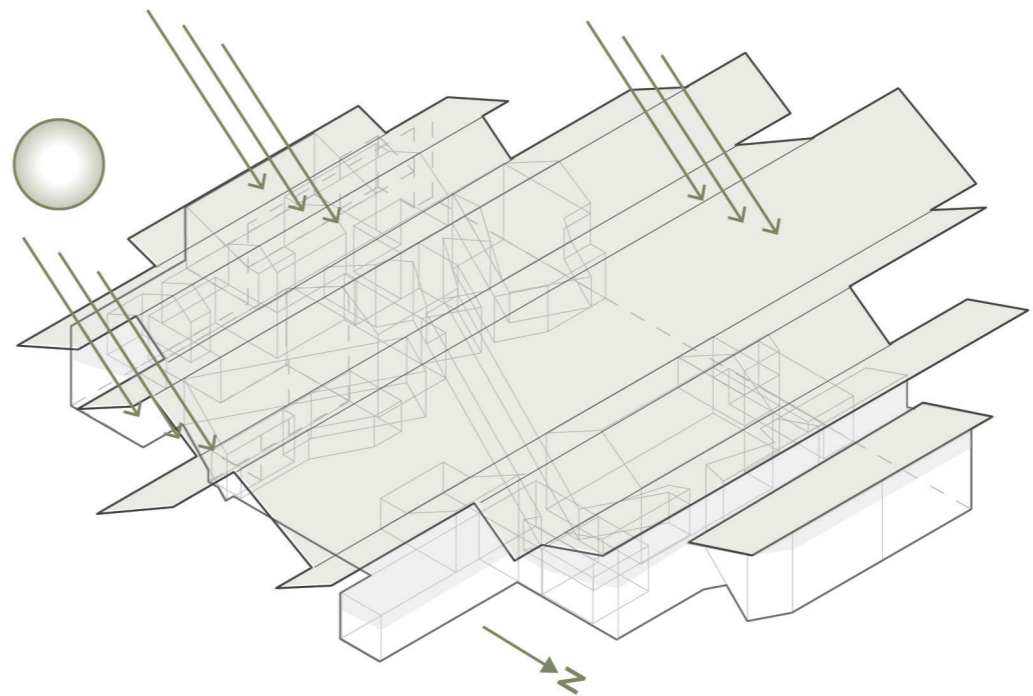
Natural Ventilation



Heated Zones

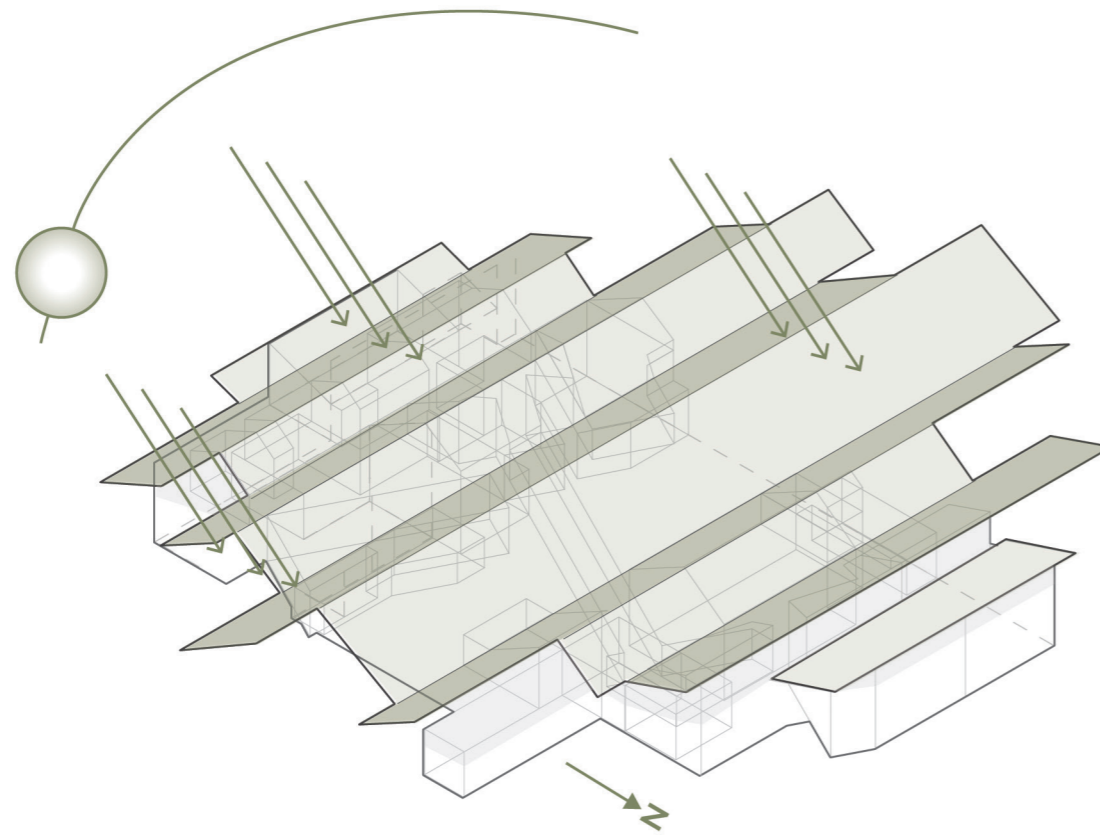


Water Collection



Sun Shading

PV Panels calculation



PV covered roof area: ~ 1910m²



Roof slope: 30°

1800 PHOTOVOLTAIC PANELS

↓
1M² AND TILTED 30 DEGREES

↓
SOUTH ORIENTATION

↓
SOLAR IRRADIANCE AVG.

3.2 – 3.6 kWh/m² per day

↓
ENERGY OUTPUT:

$3.4 \times 0.16 \approx 0.54$ kWh/day per m² (16% eff.)

↓
~ 354,000 kWh OF ELETRICITY PER YEAR





