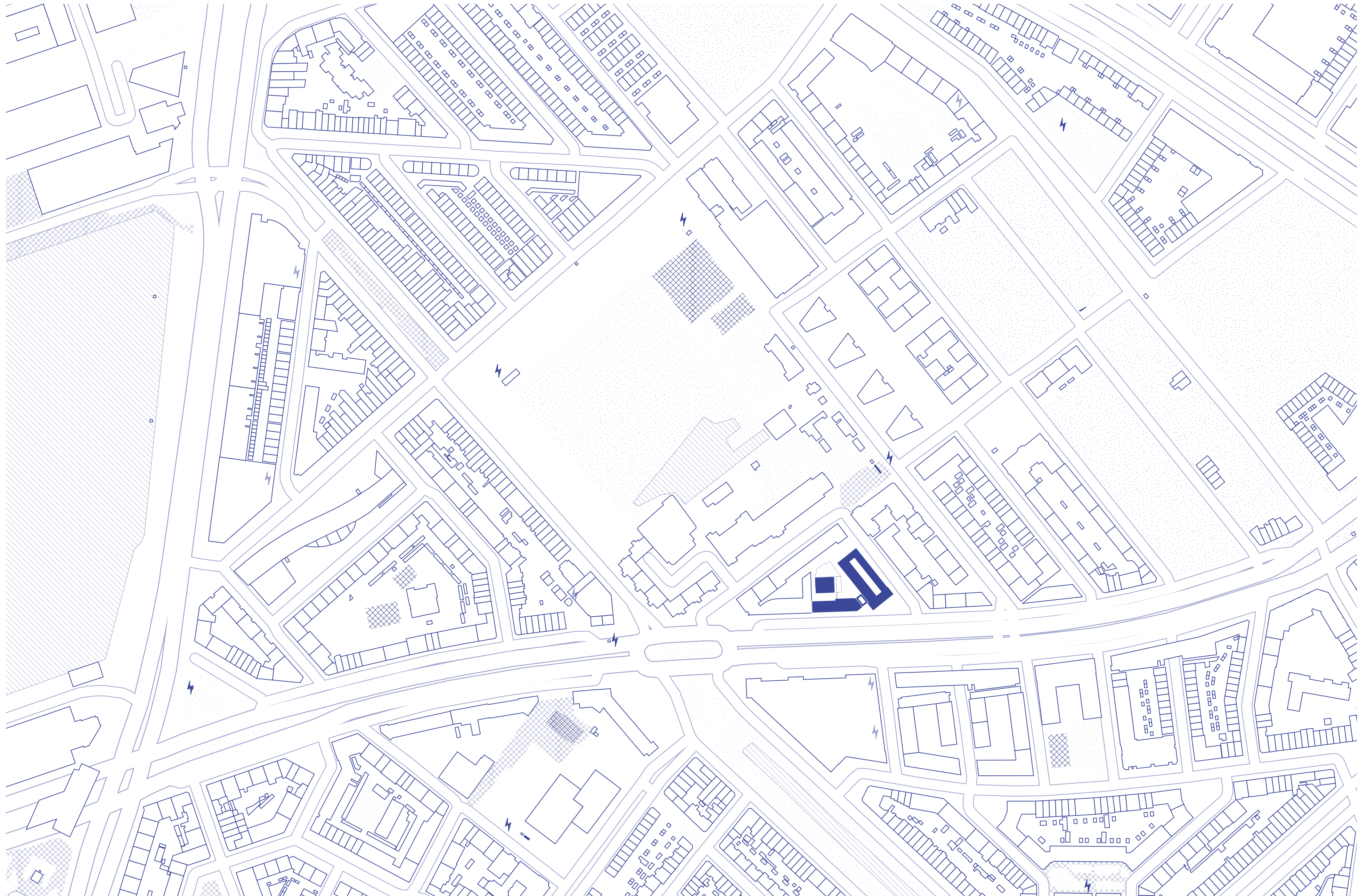
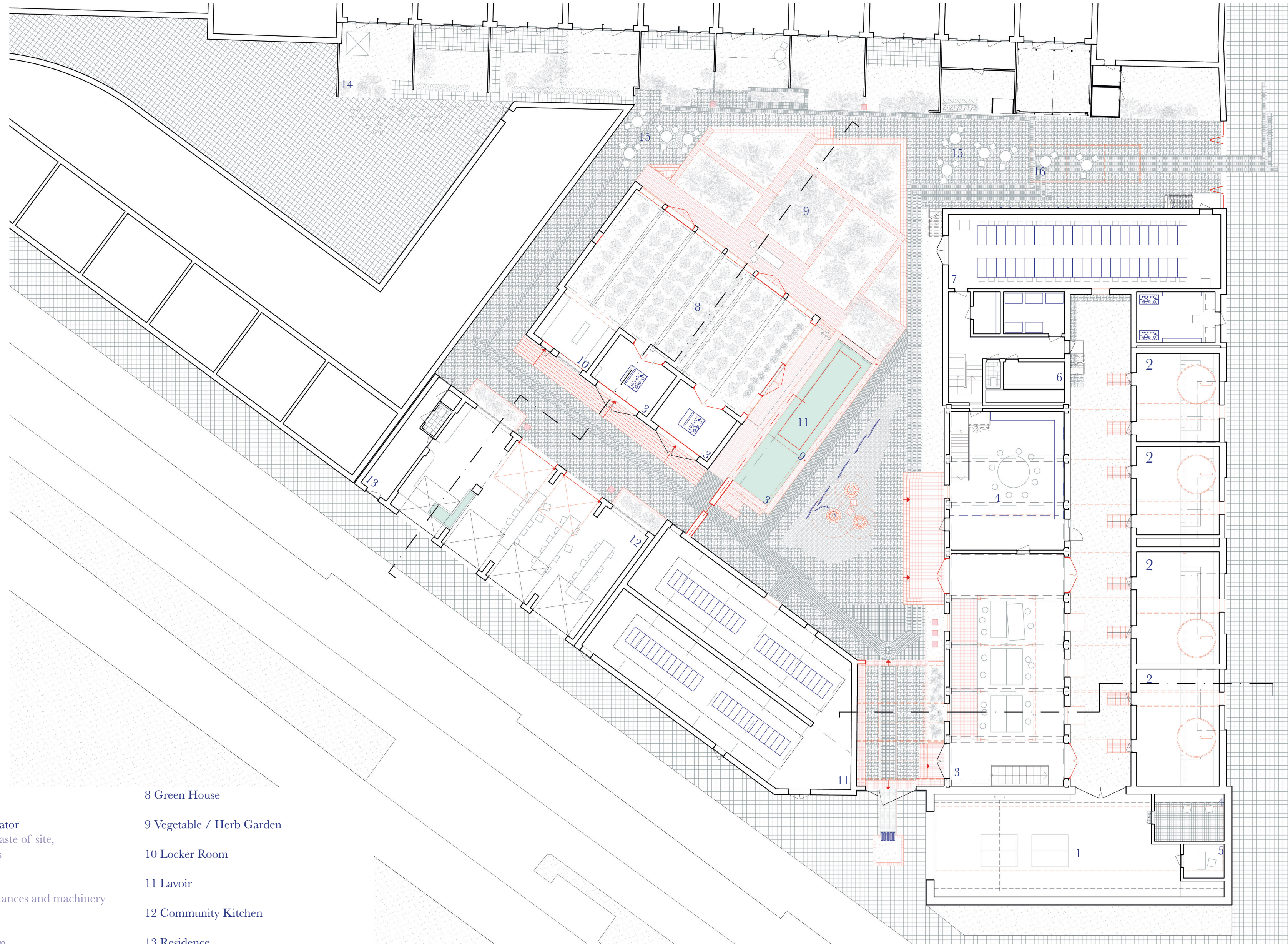


Site Plan



1:2000

Ground Floor Adapted Situation



1 Tool Station

2 Biomass Generator
fuelled by food waste of site,
market and locals

3 Workshop
fixing home appliances and machinery

4 Plenum
Conference Room

5 Office

6 Battery Storage

7 Transformer Room
50 > 10 KV

8 Green House

9 Vegetable / Herb Garden

10 Locker Room

11 Lavoir

12 Community Kitchen

13 Residence

14 Private Garden

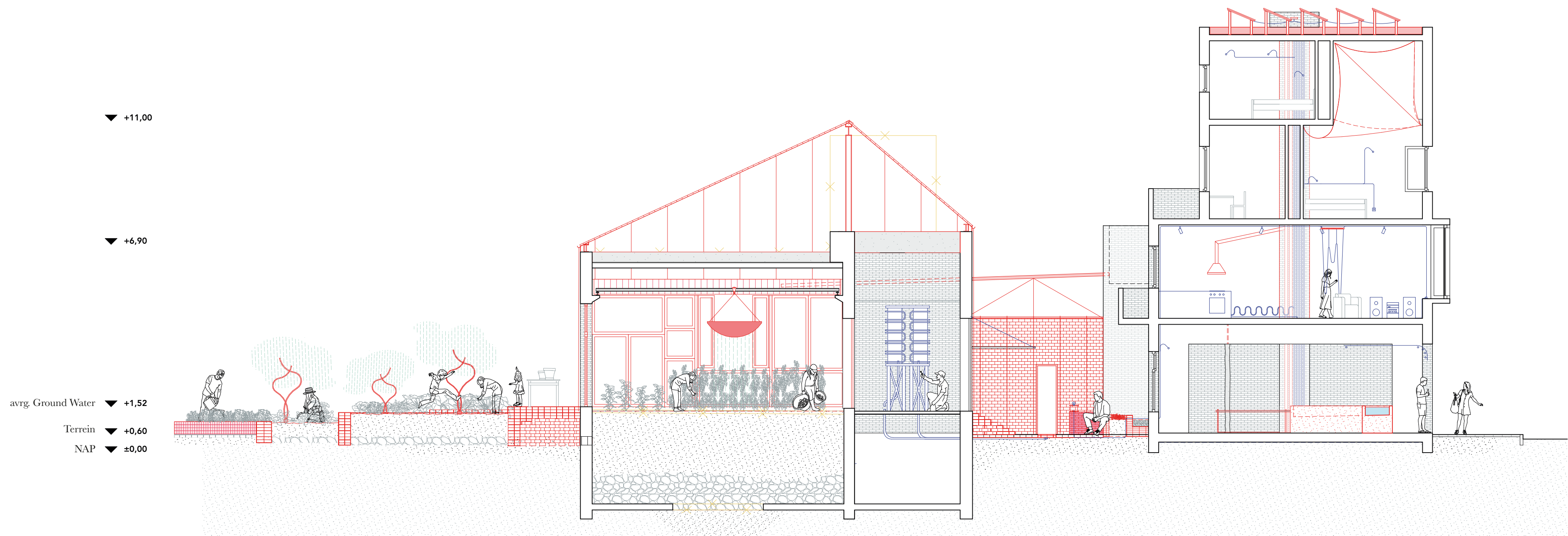
15 Semi-Public Outdoor Space

16 Pavilion

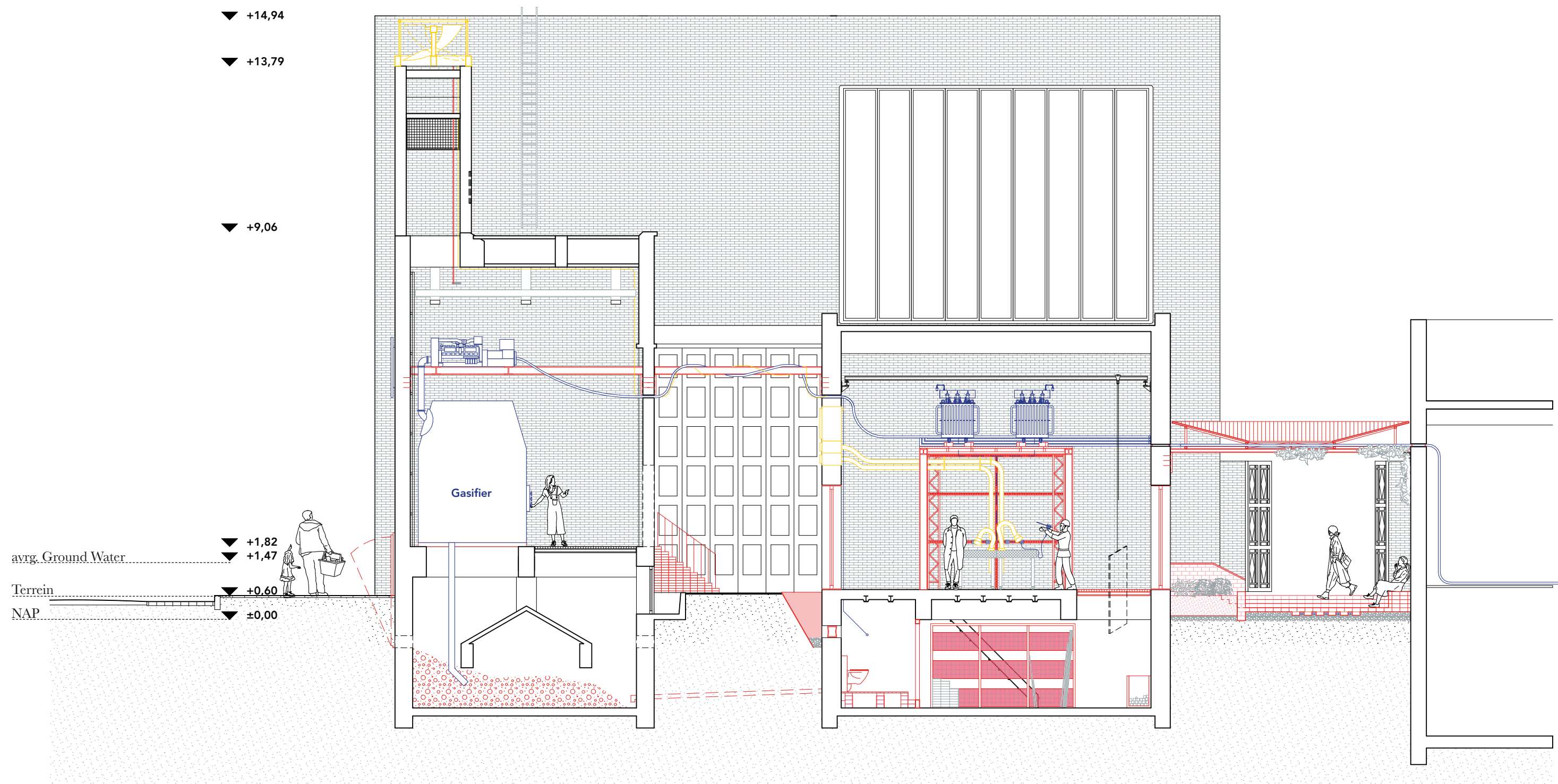
1:200



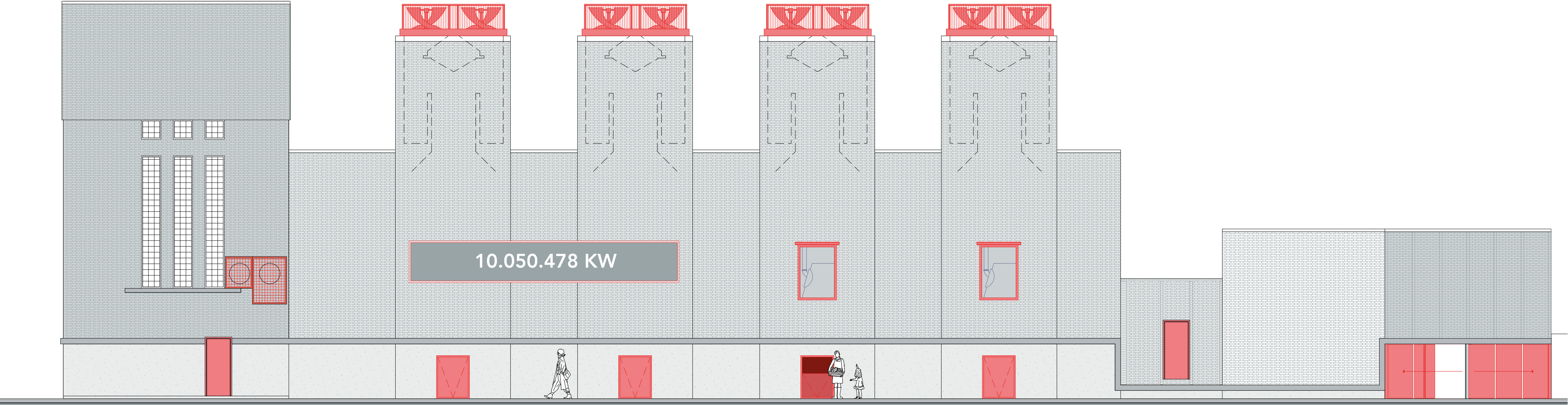
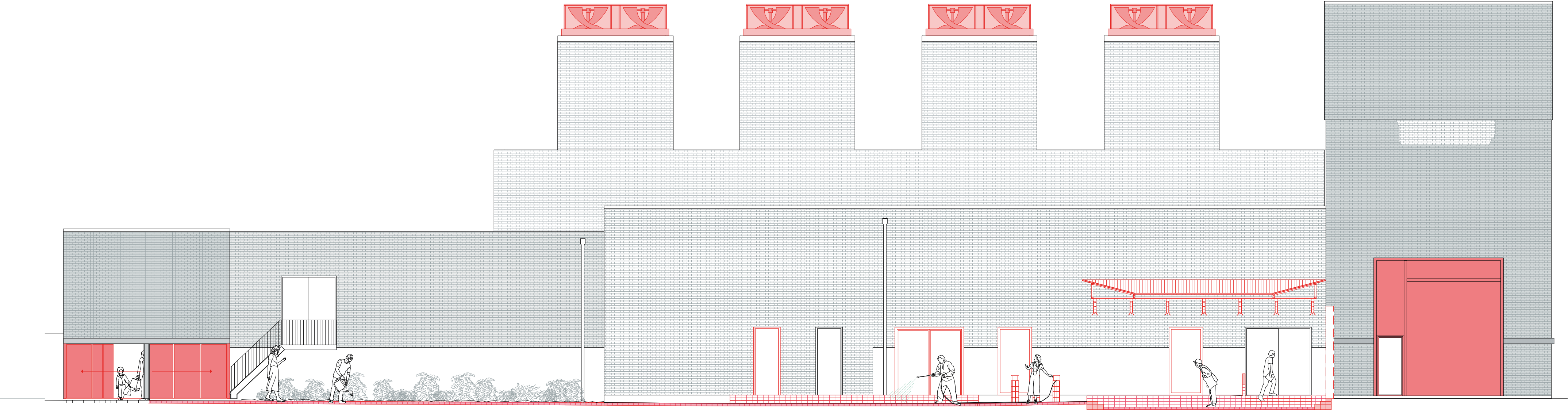
Section
Greenhouse



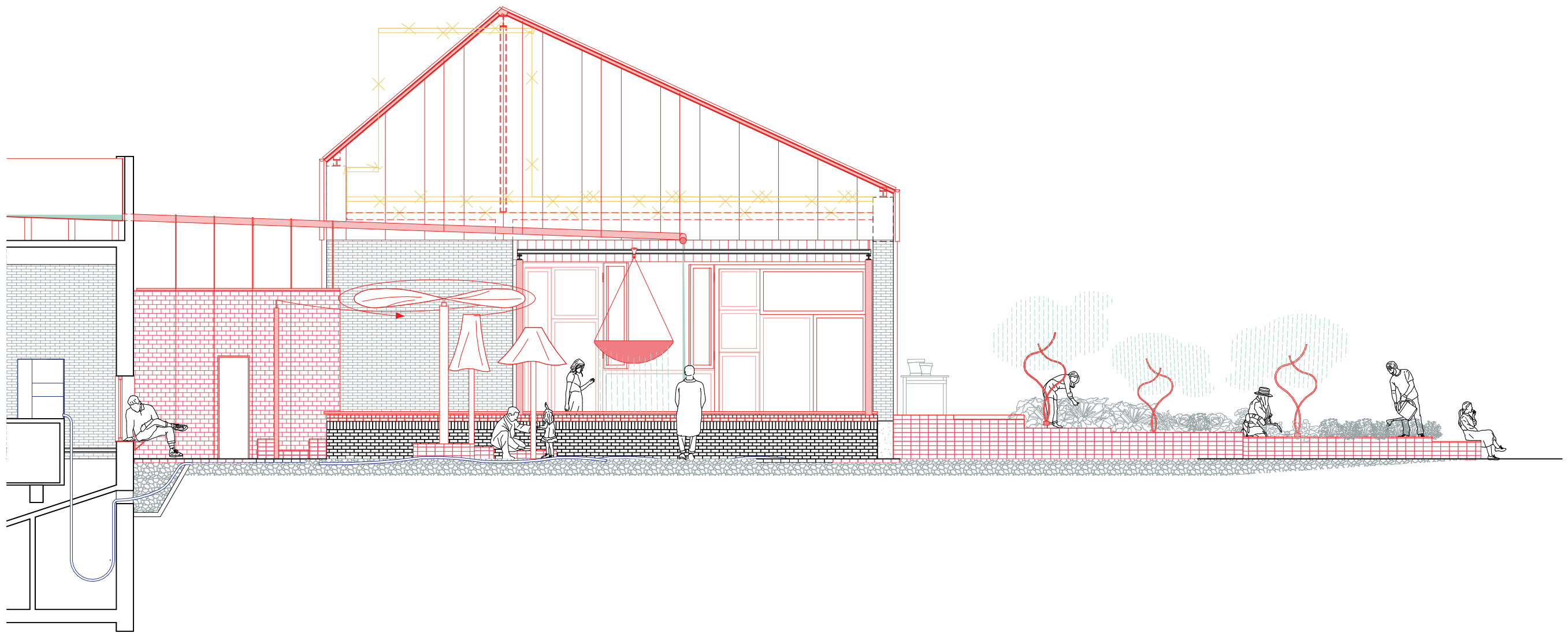
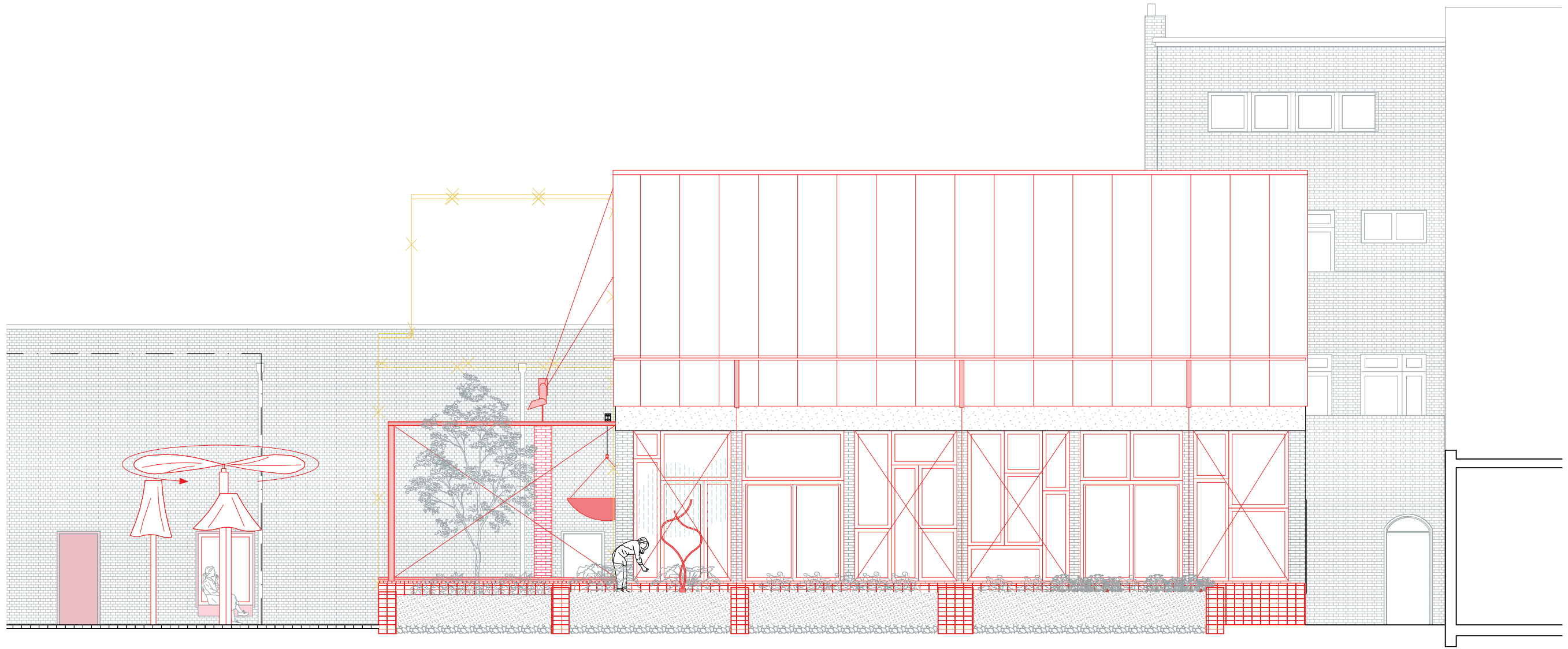
Section
Workshop + Biomass



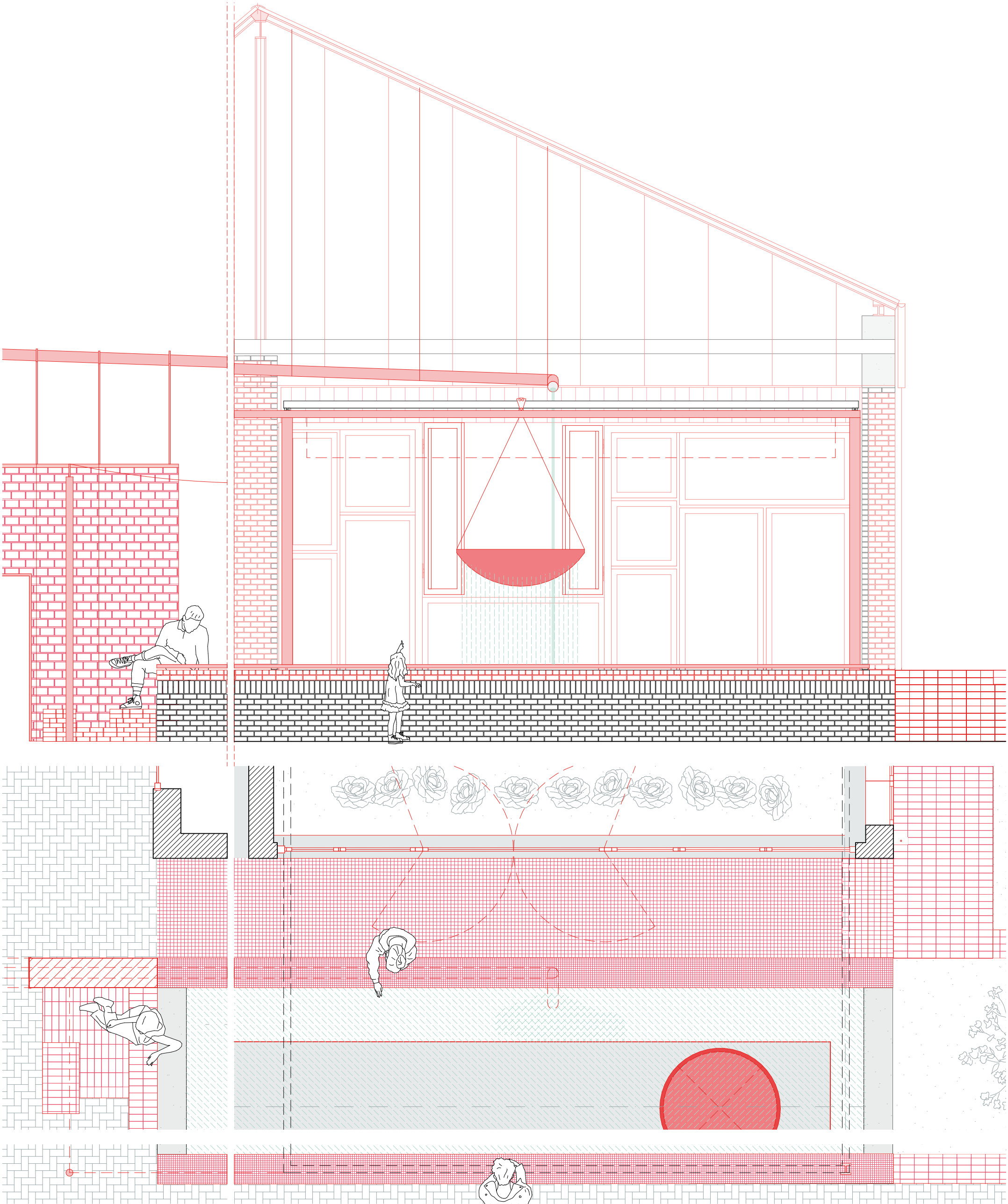
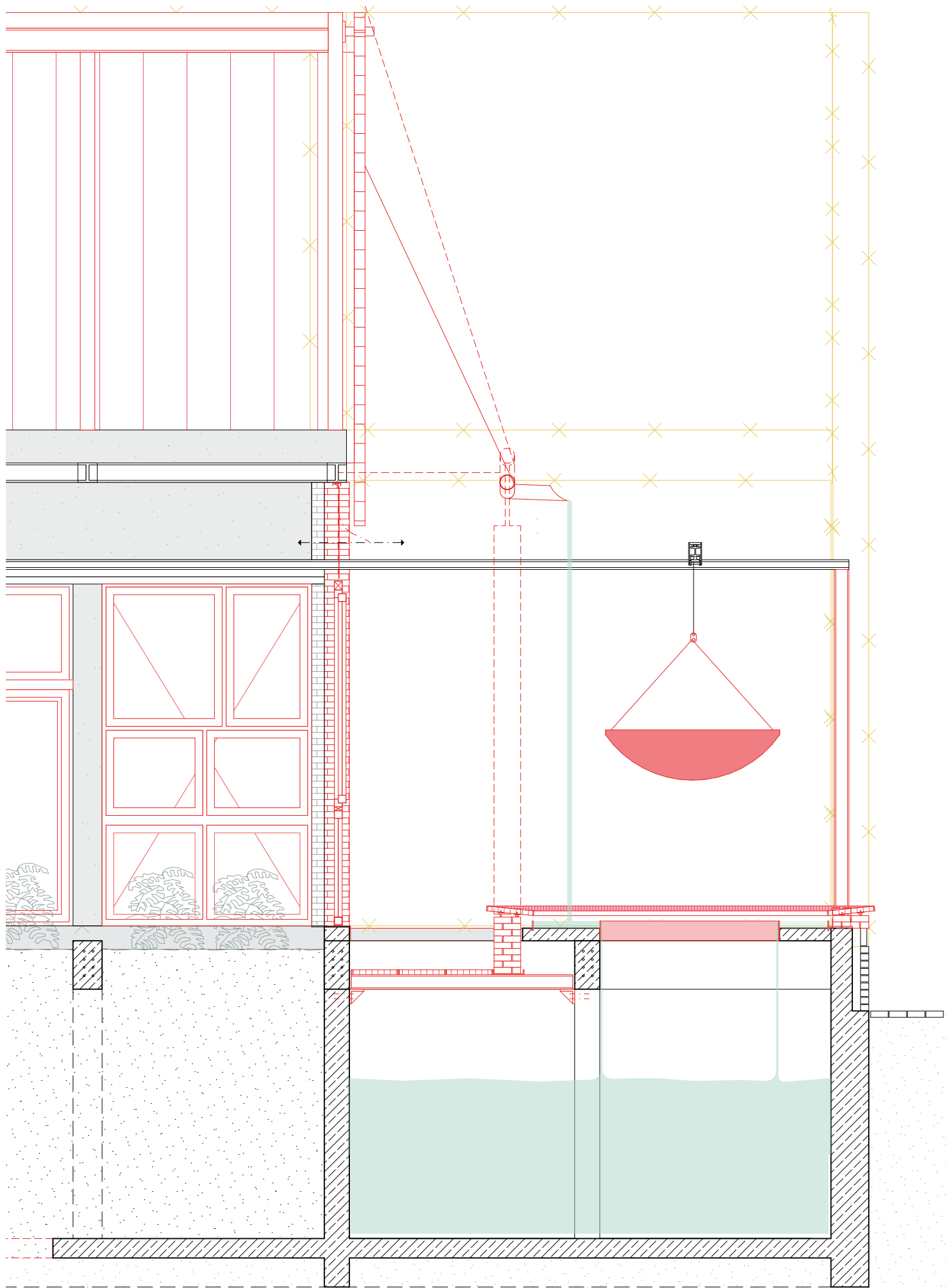
Elevation
Biomass Generators and Workshop



Elevation
Greenhouse



Fragment
Lavoir



Detail
Informing Material Relations

Electrical Stela

Stacked concrete paver
100 x 200 x 85 mm

Steel wire
d = 8 mm

Cable guard, wood
40 x 40 mm

Threaded rod
d = 8 mm

Folded sheet metal, steel
220 x 220 x 3 mm

Cable Trench & Drainage

Concrete Paver
100 x 200 x 85 mm

Klinker
180 x 85 x 65 mm

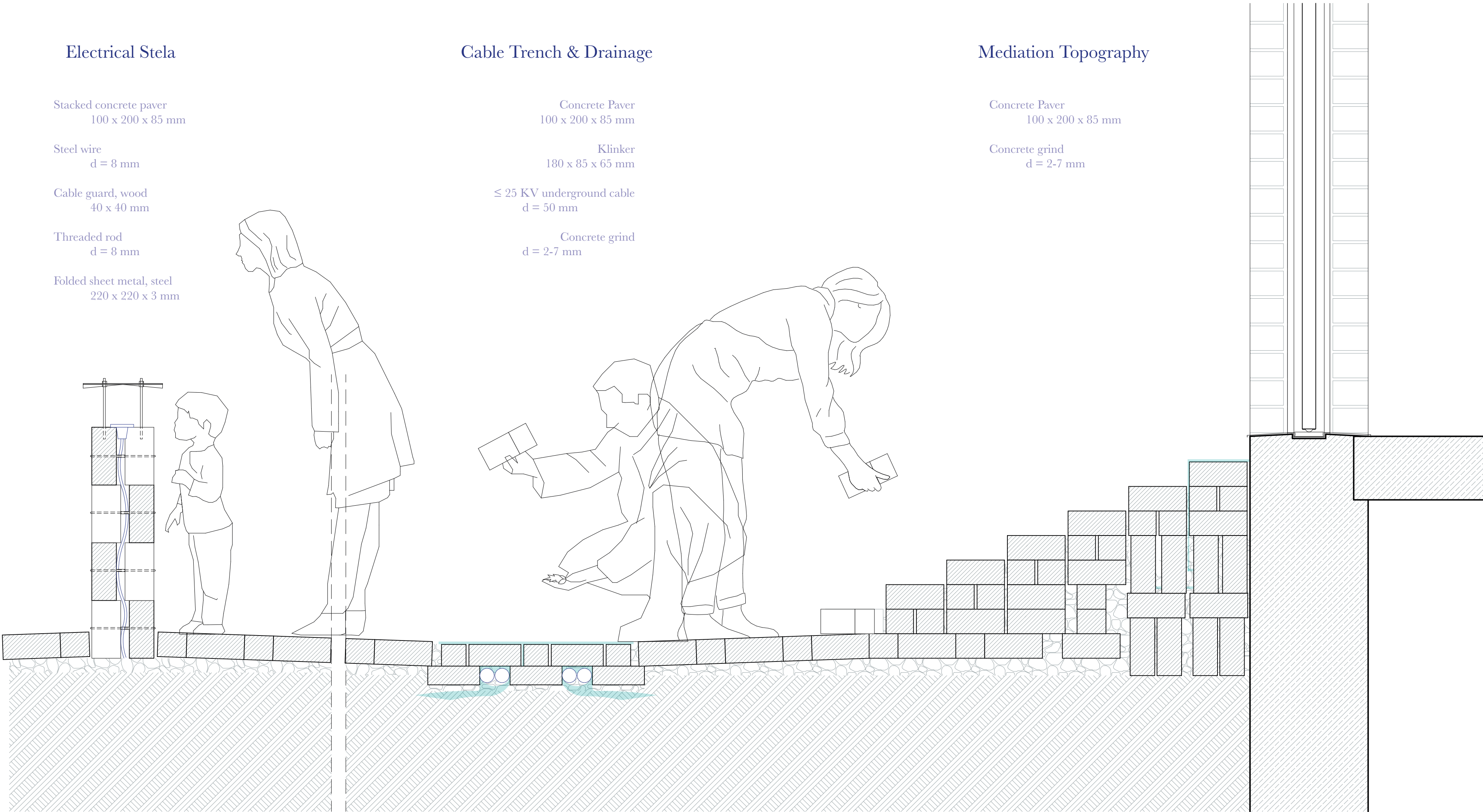
≤ 25 KV underground cable
d = 50 mm

Concrete grind
d = 2-7 mm

Mediation Topography

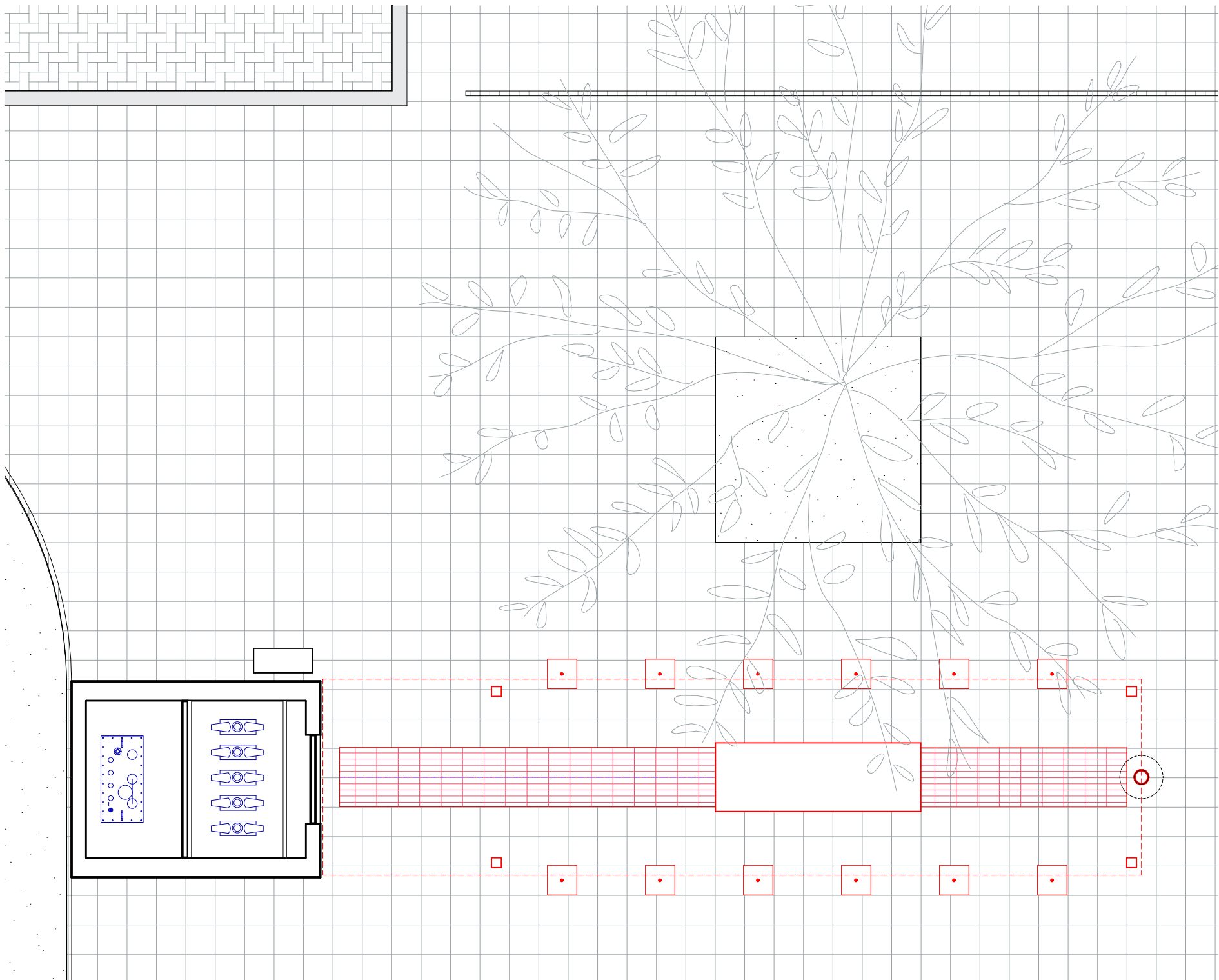
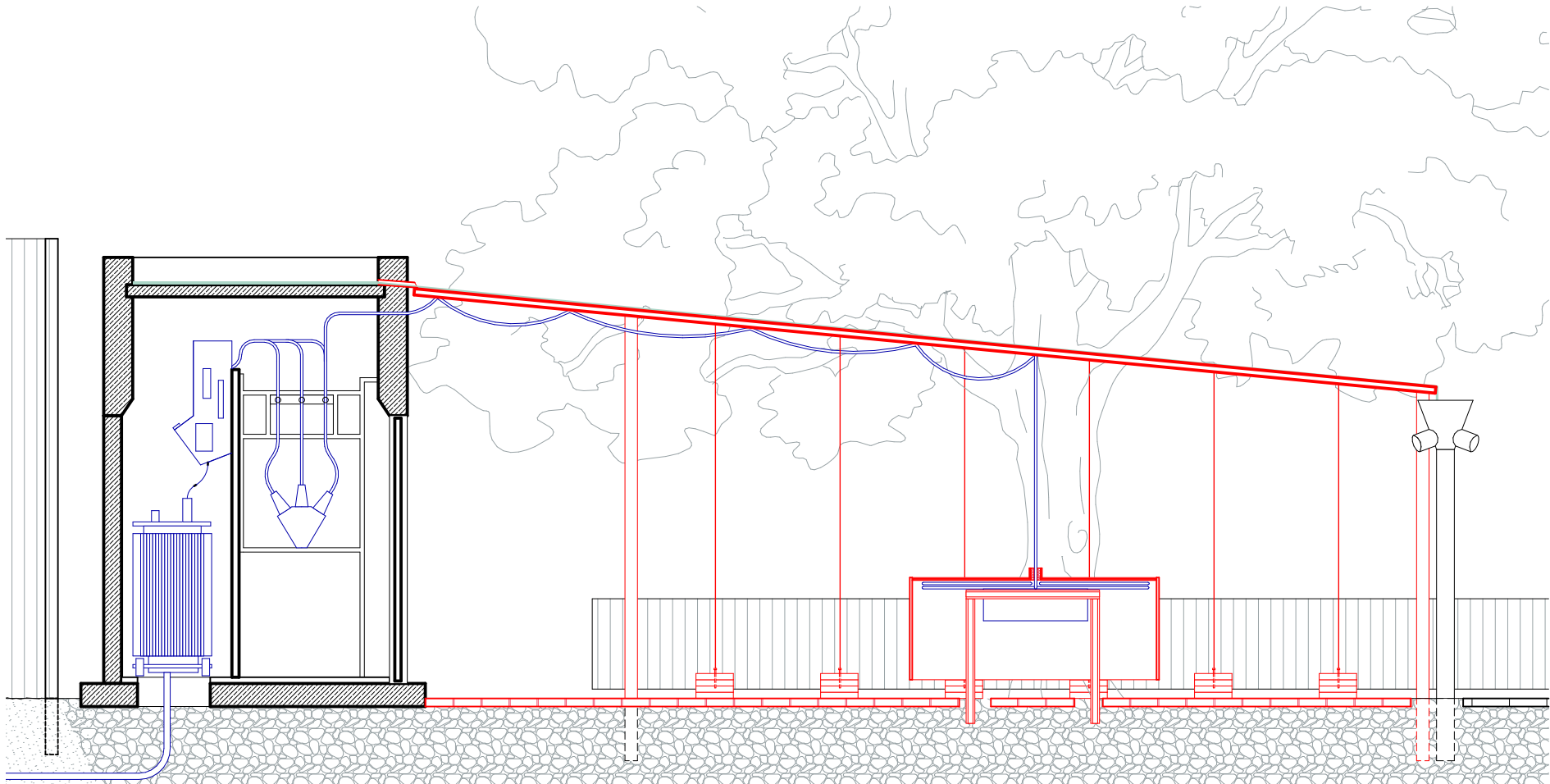
Concrete Paver
100 x 200 x 85 mm

Concrete grind
d = 2-7 mm



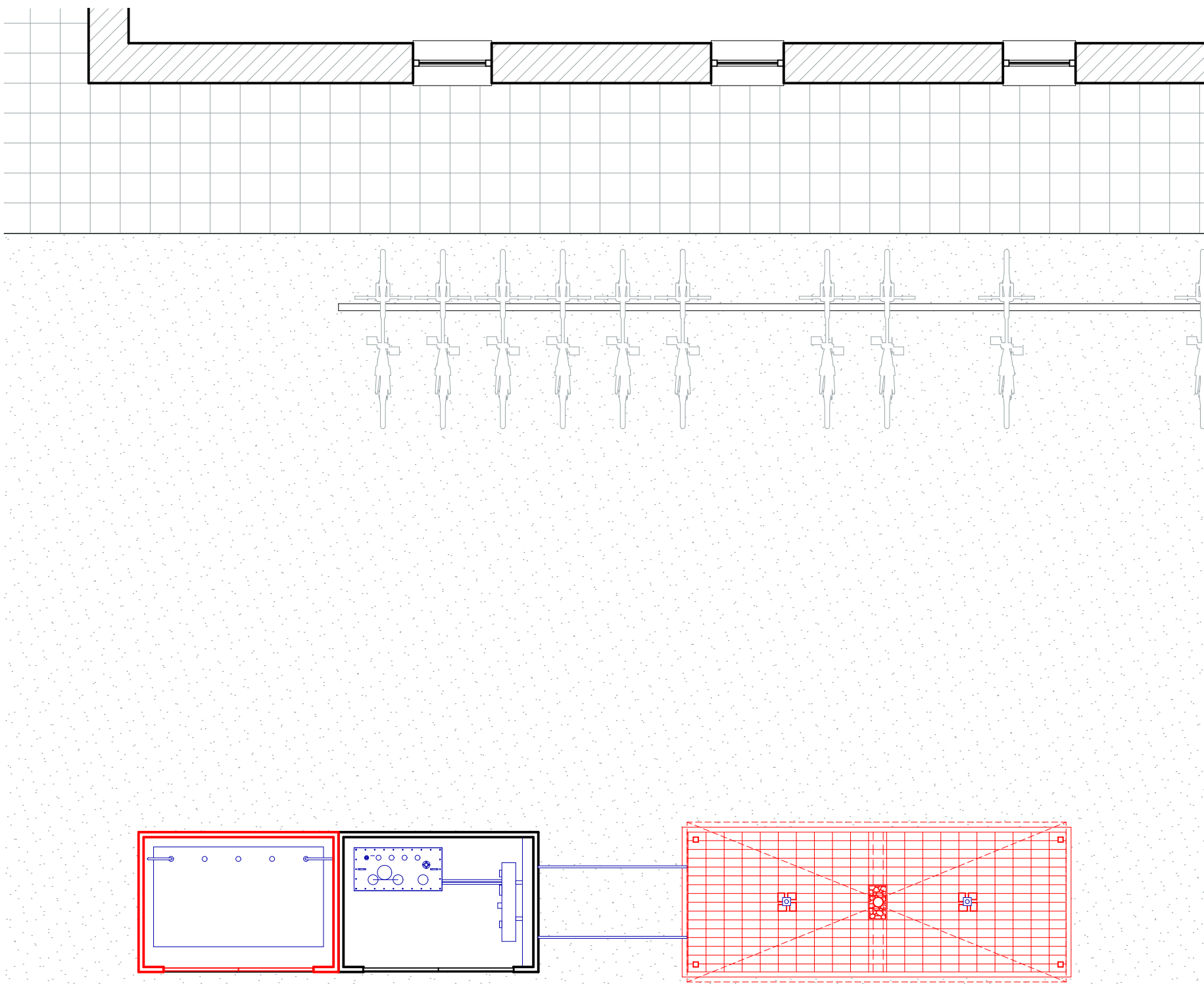
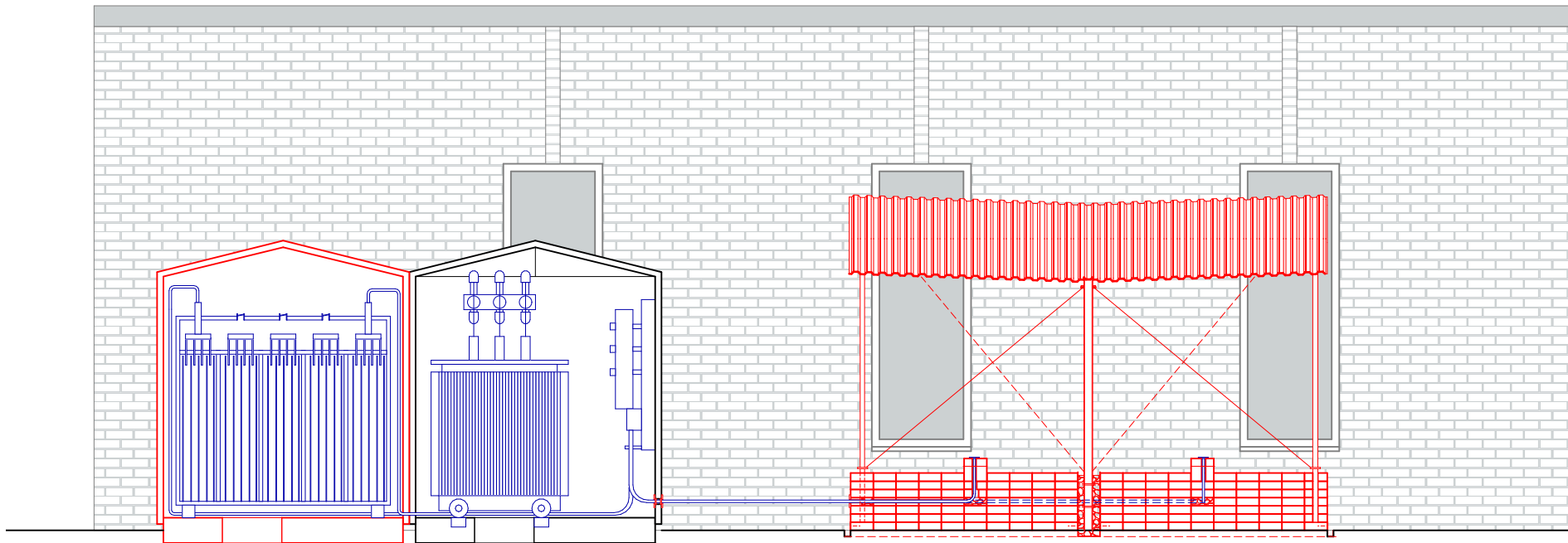
TRAFO HOUSE PUTSEPLEIN

PLAN AND SECTION



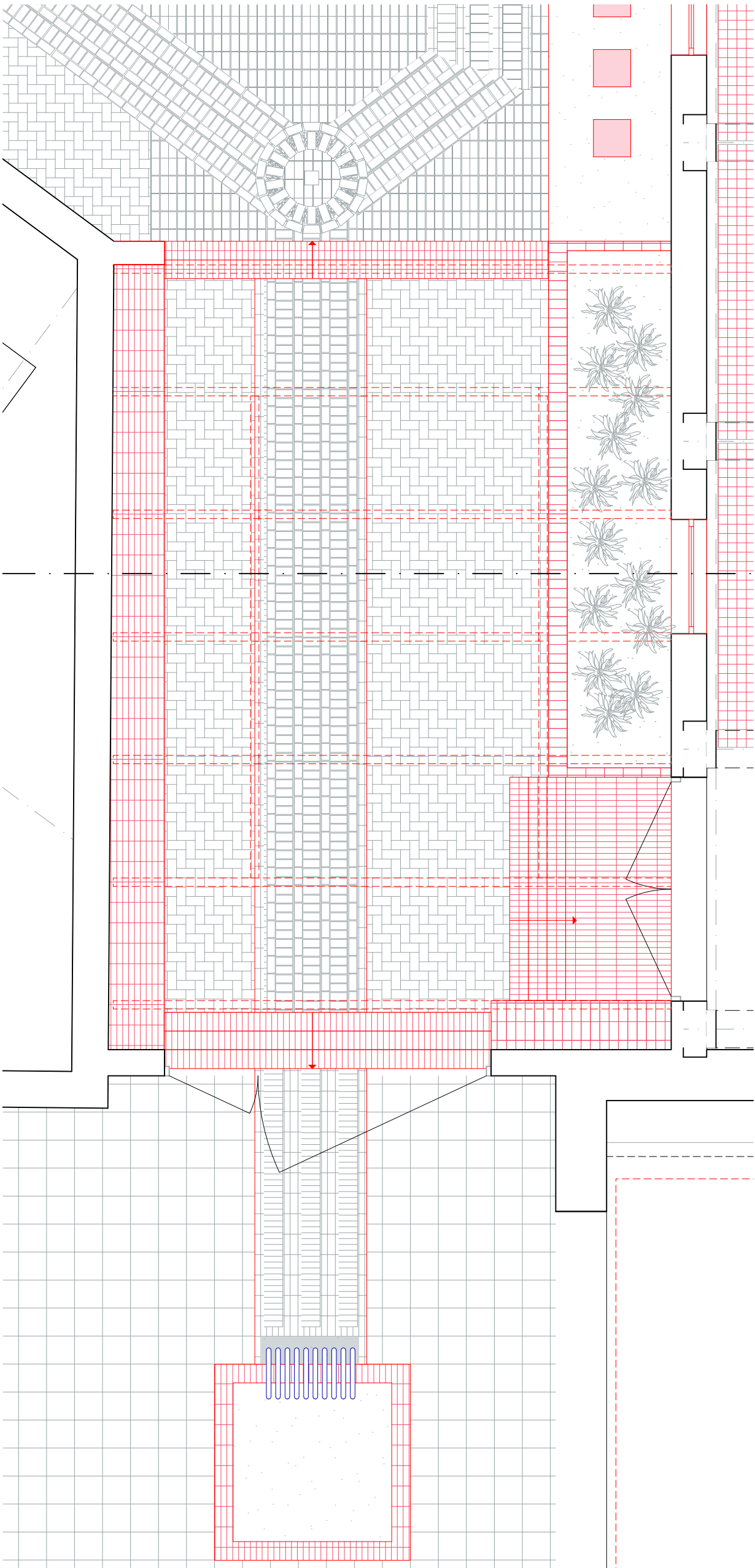
TRAFO HOUSE DE SLEUTEL

PLAN AND SECTION



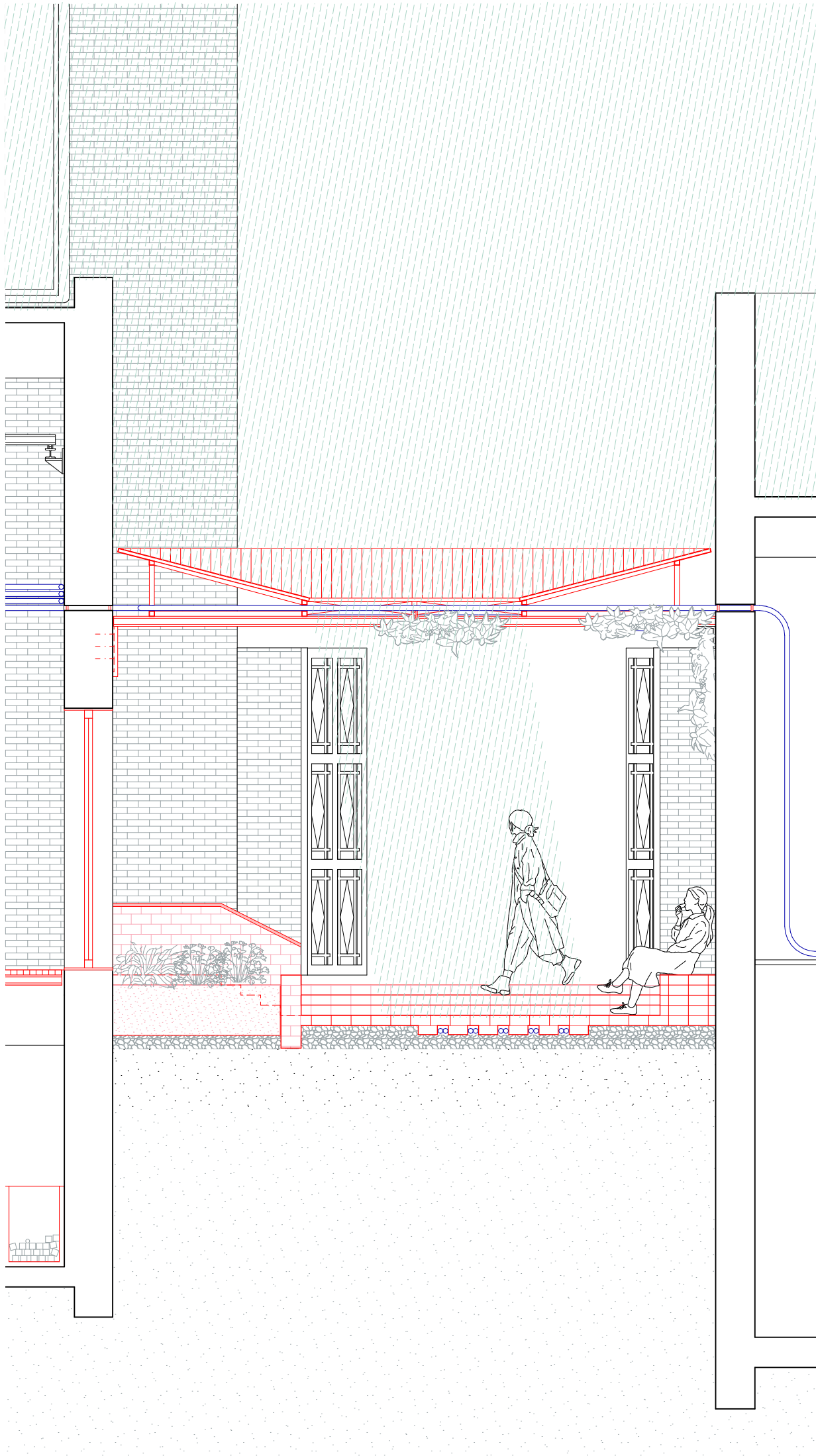
ENTRANCE SITUATION

PLAN

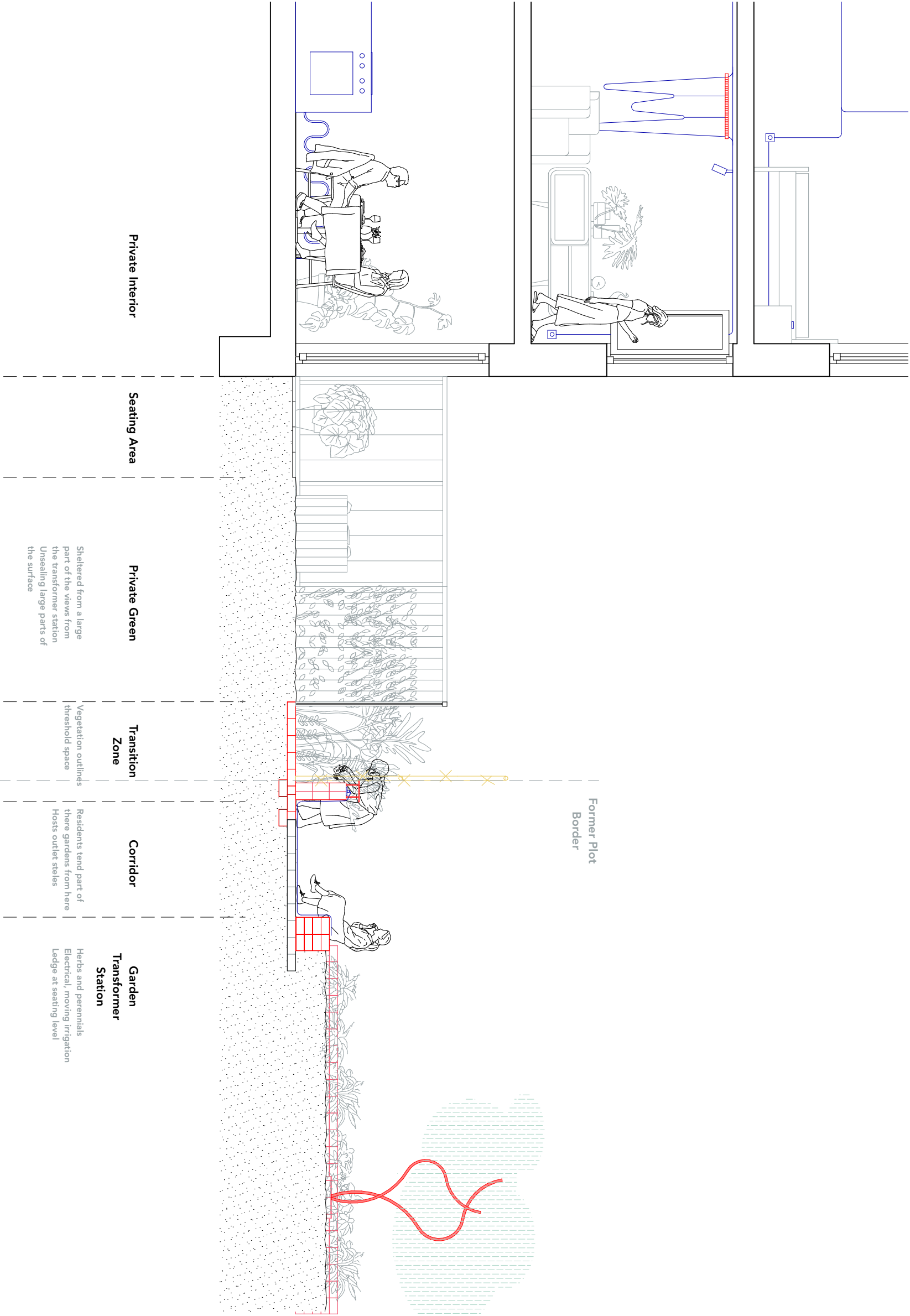


ENTRANCE SITUATION

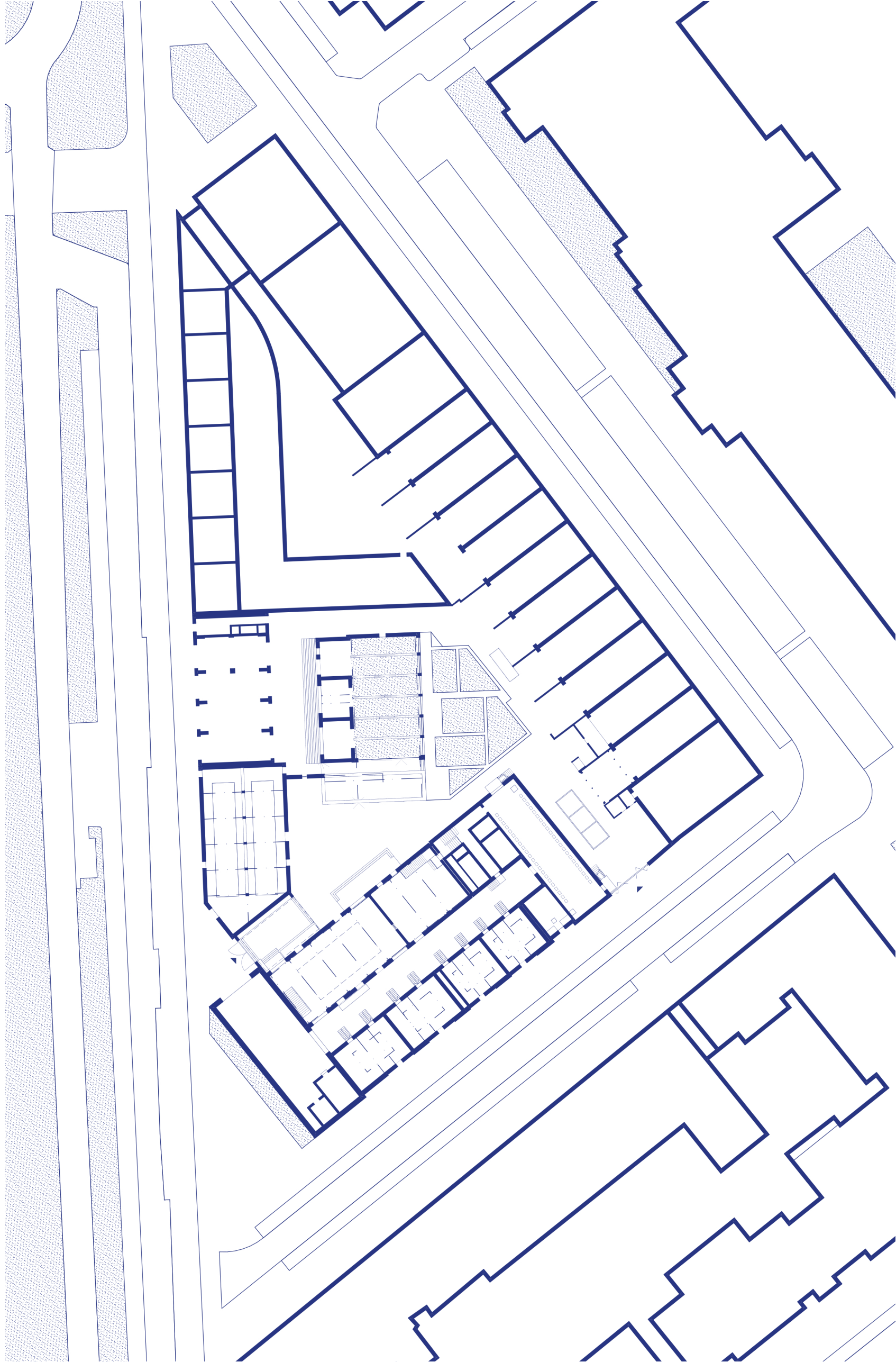
SECTION



THRESHOLD NEIGHBOURS



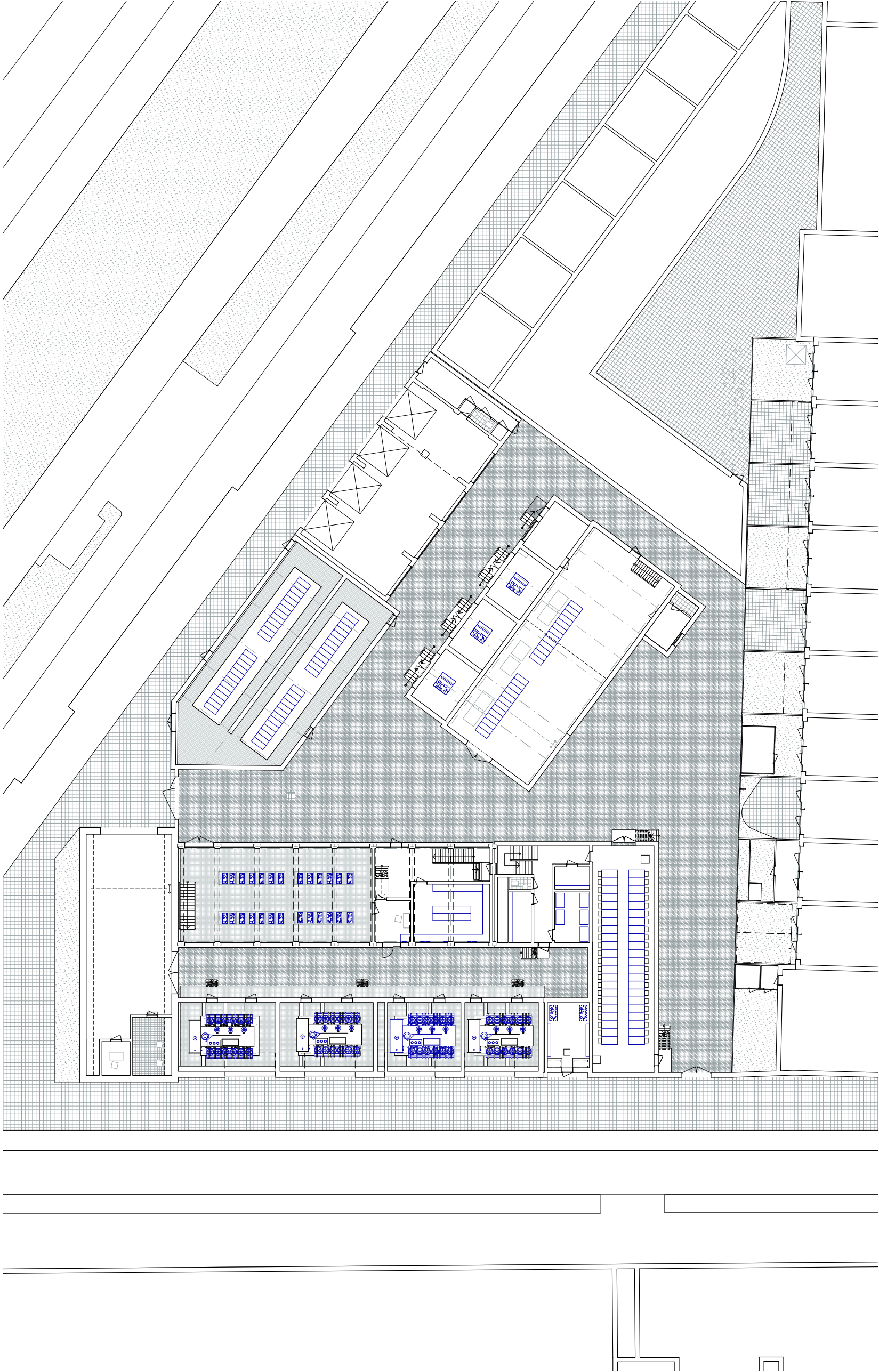
SITE



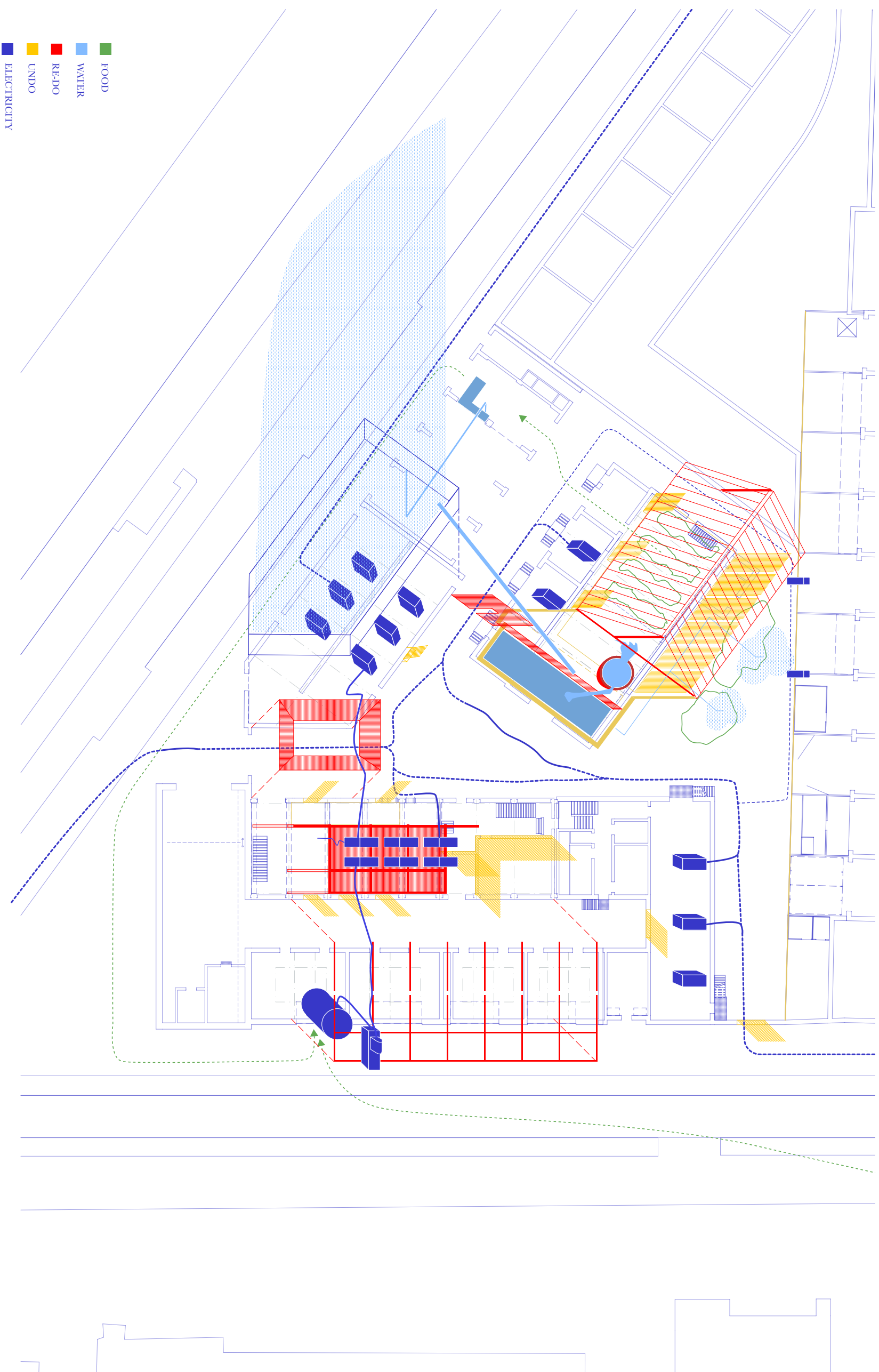
1:500



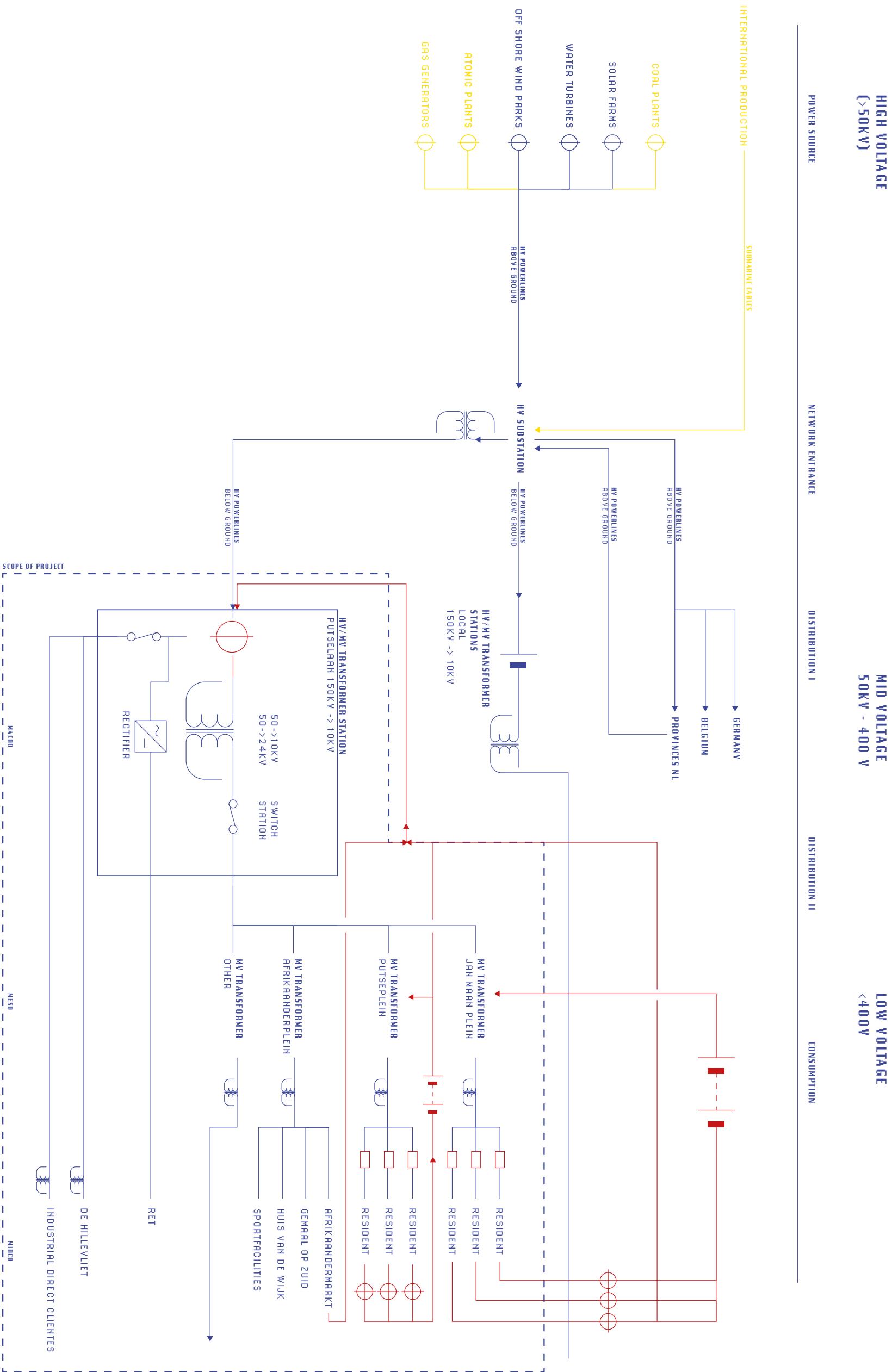
EXISTING SITUATION



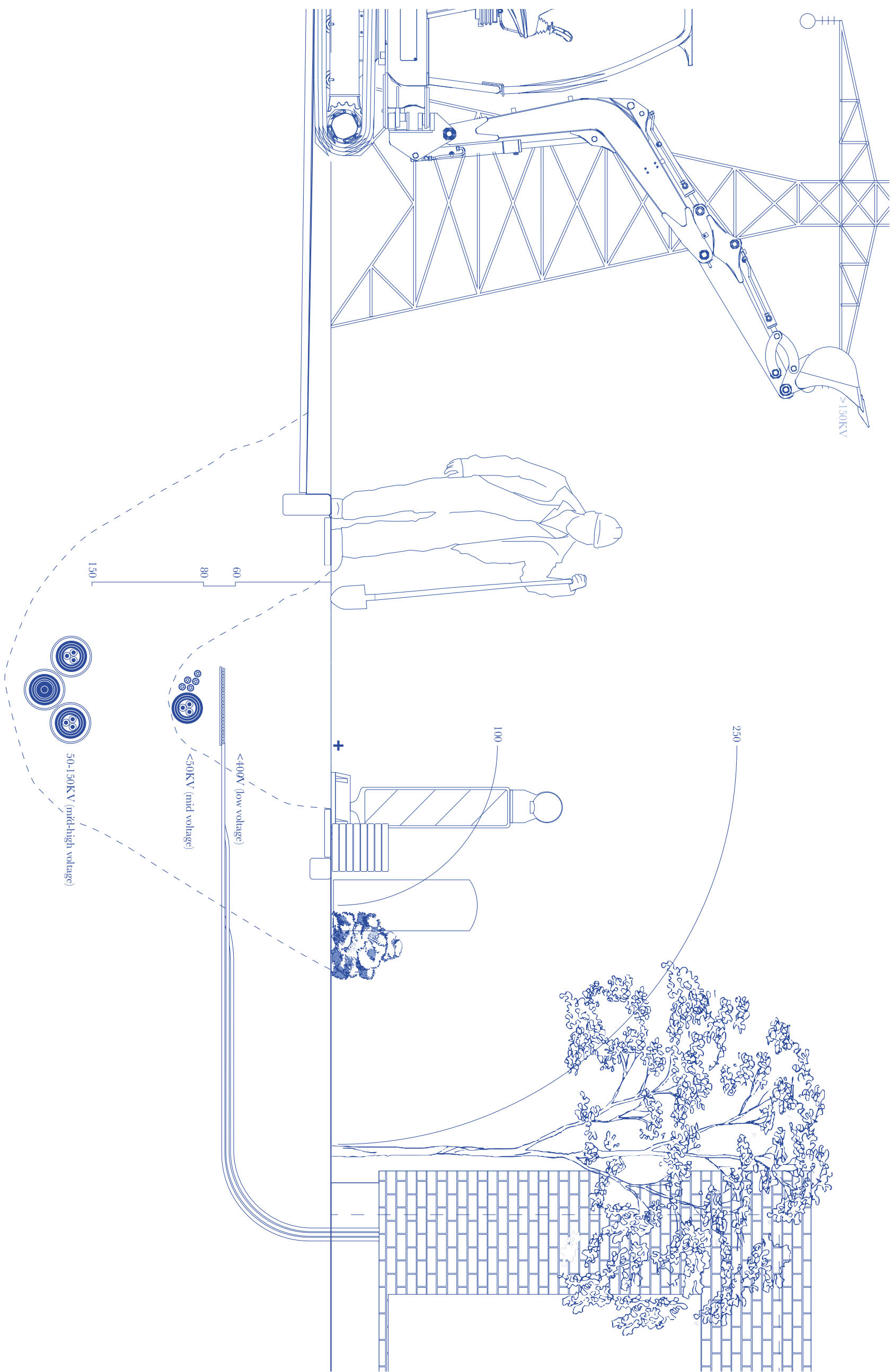
INTERVENTIONS



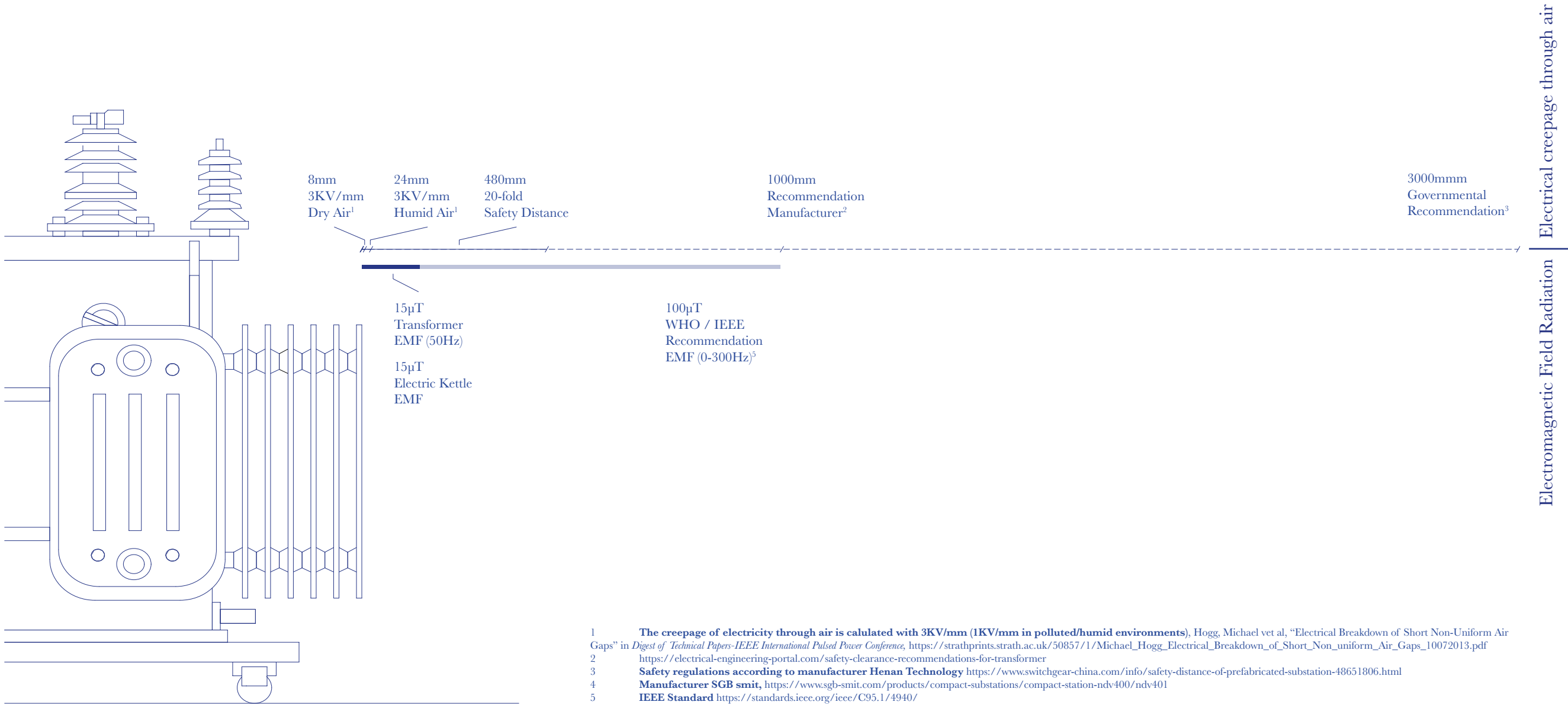
DECENTRALISATION OF THE NETWORK



PHYSICALITY OF ALIENATION



SAFETY CLEARANCES
24KV TRANSFORMER



¹ The creepage of electricity through air is calculated with 3KV/mm (1KV/mm in polluted/humid environments), Hogg, Michael vet al, "Electrical Breakdown of Short Non-Uniform Air Gaps" in *Digest of Technical Papers-IEEE International Pulsed Power Conference*, https://strathprints.strath.ac.uk/50857/1/Michael_Hogg_Electrical_Breakdown_of_Short_Non_uniform_Air_Gaps_10072013.pdf

² <https://electrical-engineering-portal.com/safety-clearance-recommendations-for-transformer>

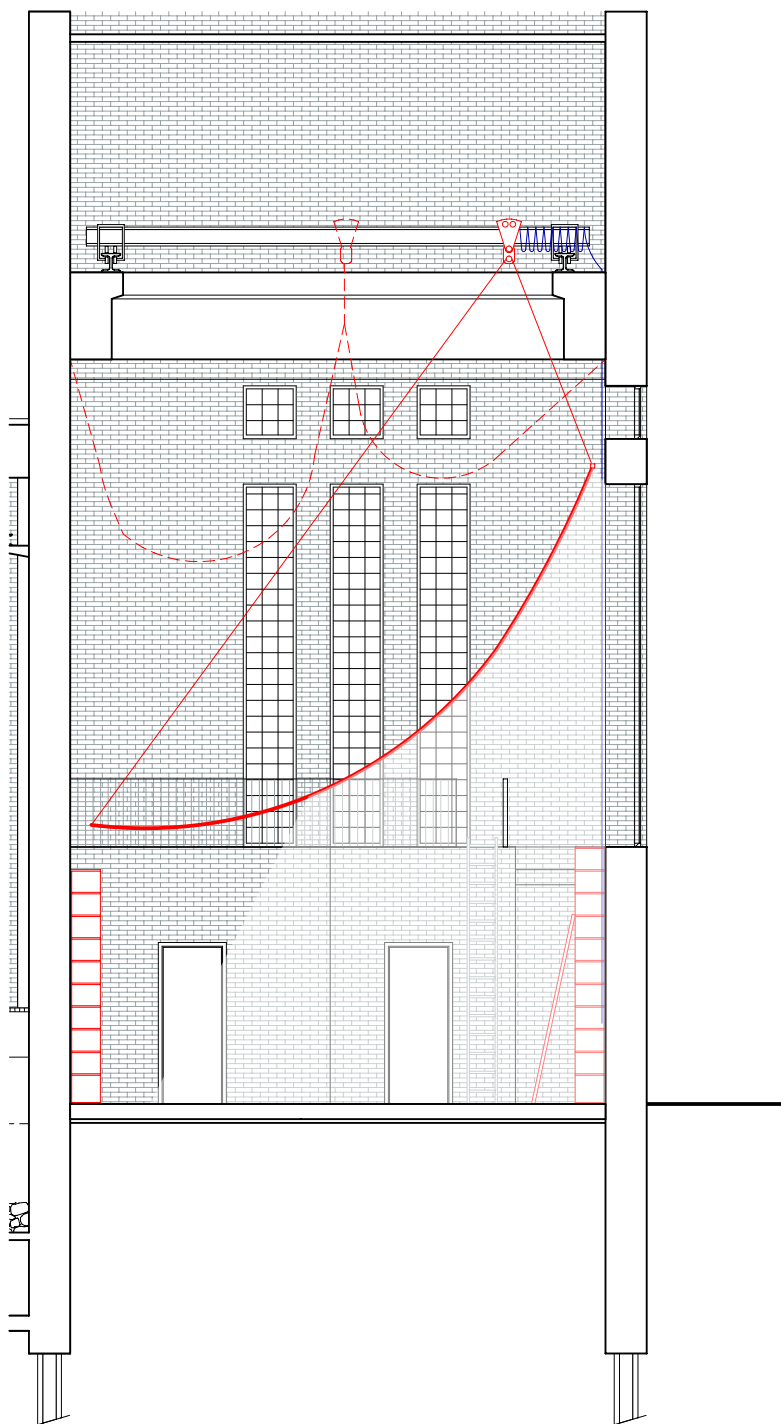
³ Safety regulations according to manufacturer Henan Technology <https://www.switchgear-china.com/info/safety-distance-of-prefabricated-substation-48651806.html>

⁴ Manufacturer SGB smit, <https://www.sgb-smit.com/products/compact-substations/compact-station-ndv400/ndv401>

⁵ IEEE Standard <https://standards.ieee.org/ieee/C95.1/4940/>

Workshop

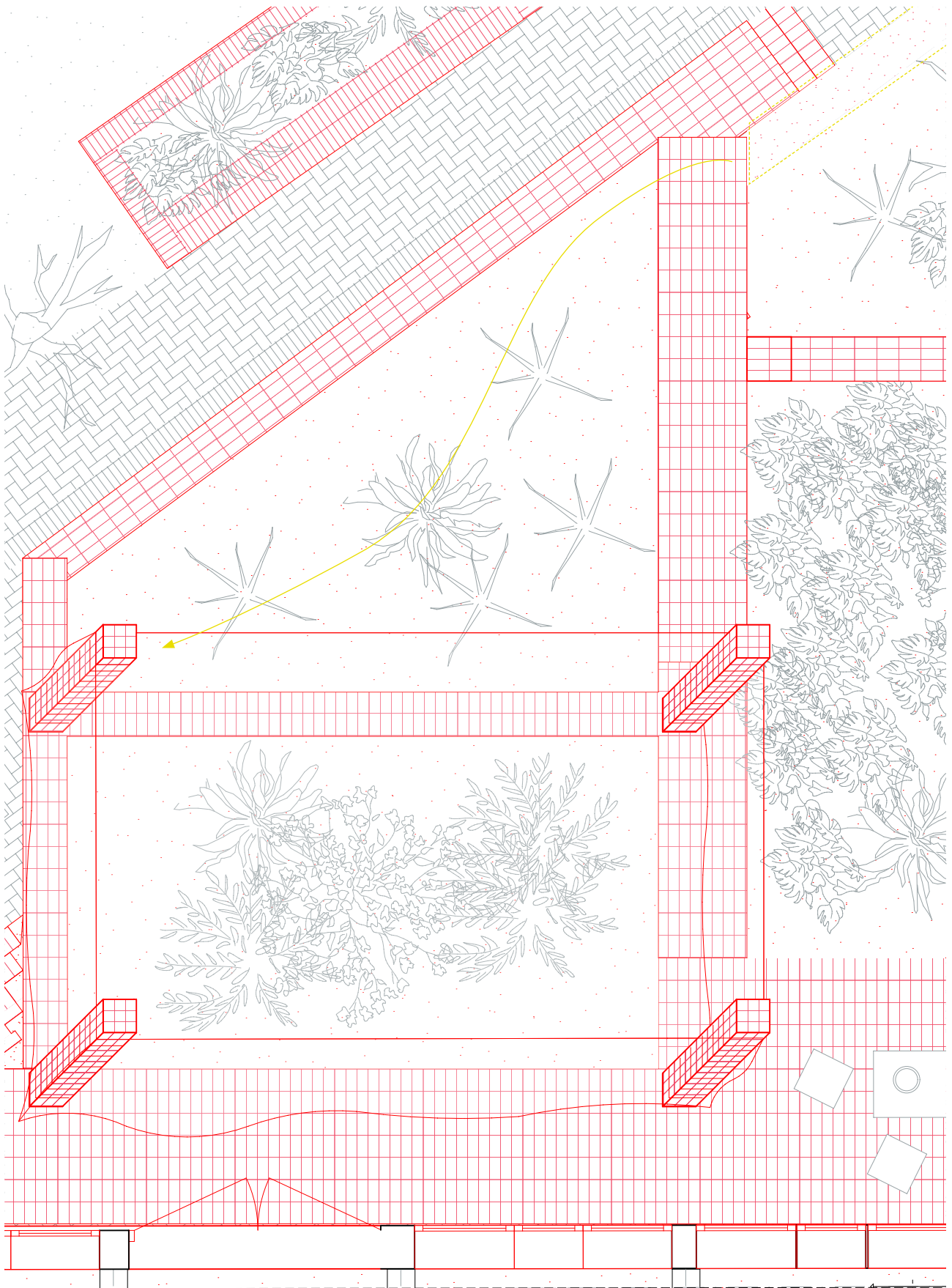
Compression of Space



1:100

Garden

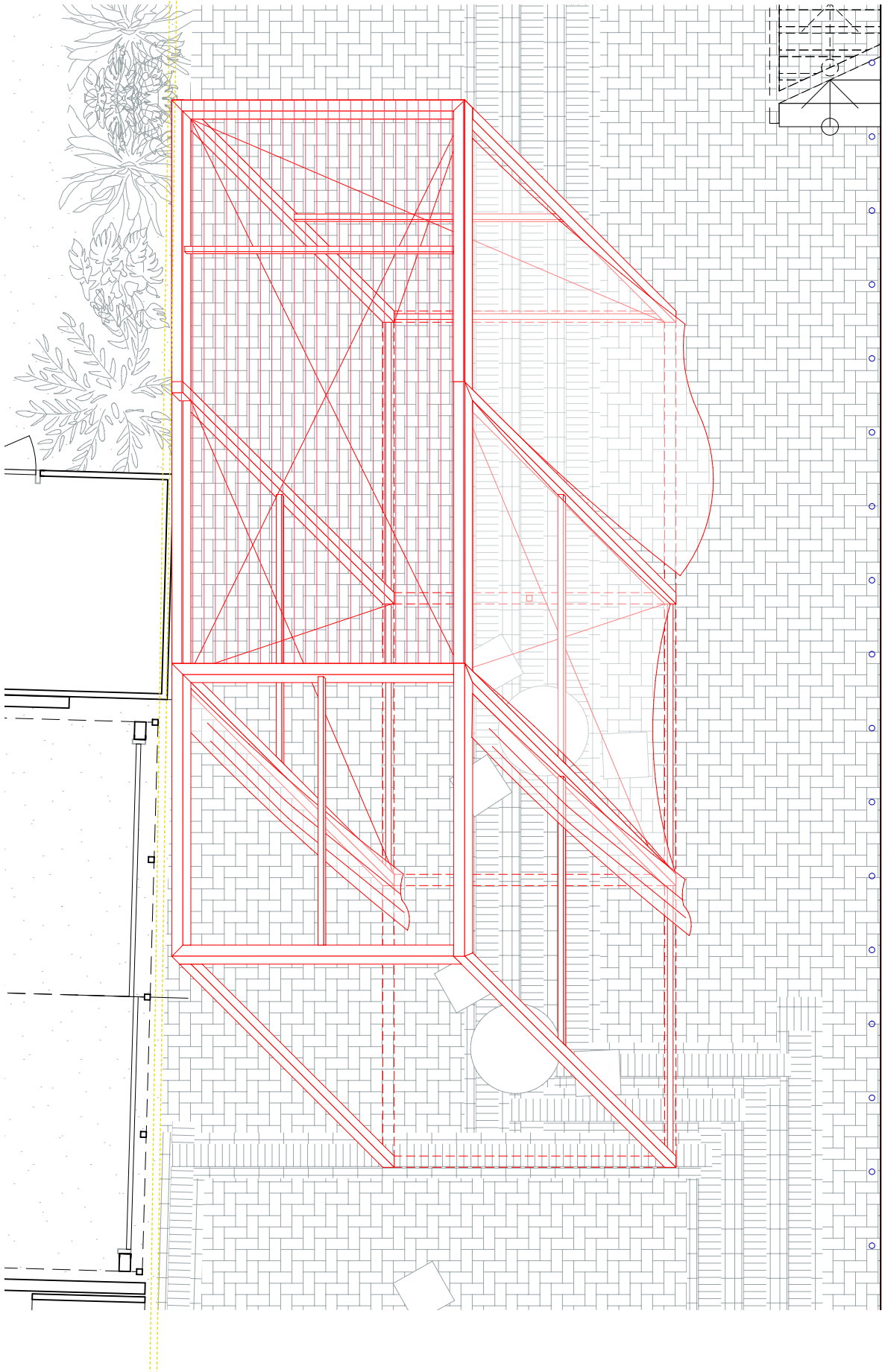
Clothing



1:50

Pavilion

Clothing



1:50