DE CENTRALE

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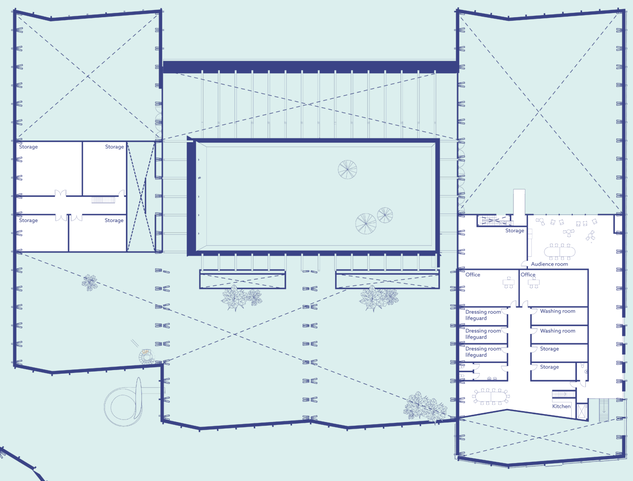
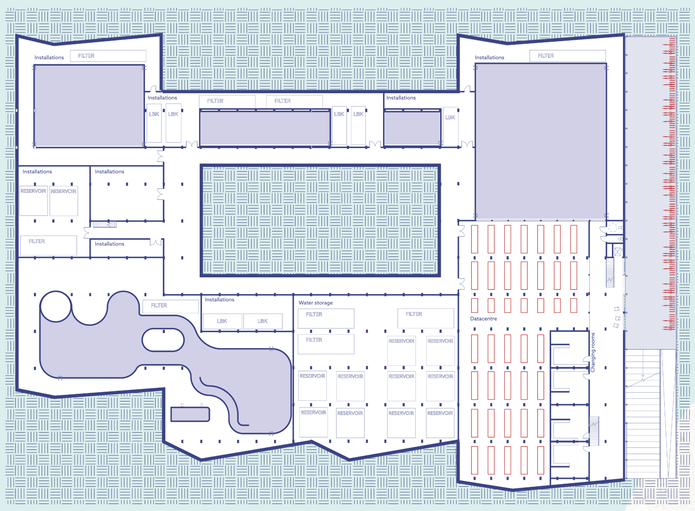
1:200
0 2 4 6 8m

Storage
Kitchen
Storage
Coolcel
Kiosk
Lab
Storage
Storage
Family dressing room
Family dressing room
Storage
Reception
Kitchen
Coolcel
Bar
6000 1800 6000 18000 6000 18000 8000 19000
24000 24000 24000 27000

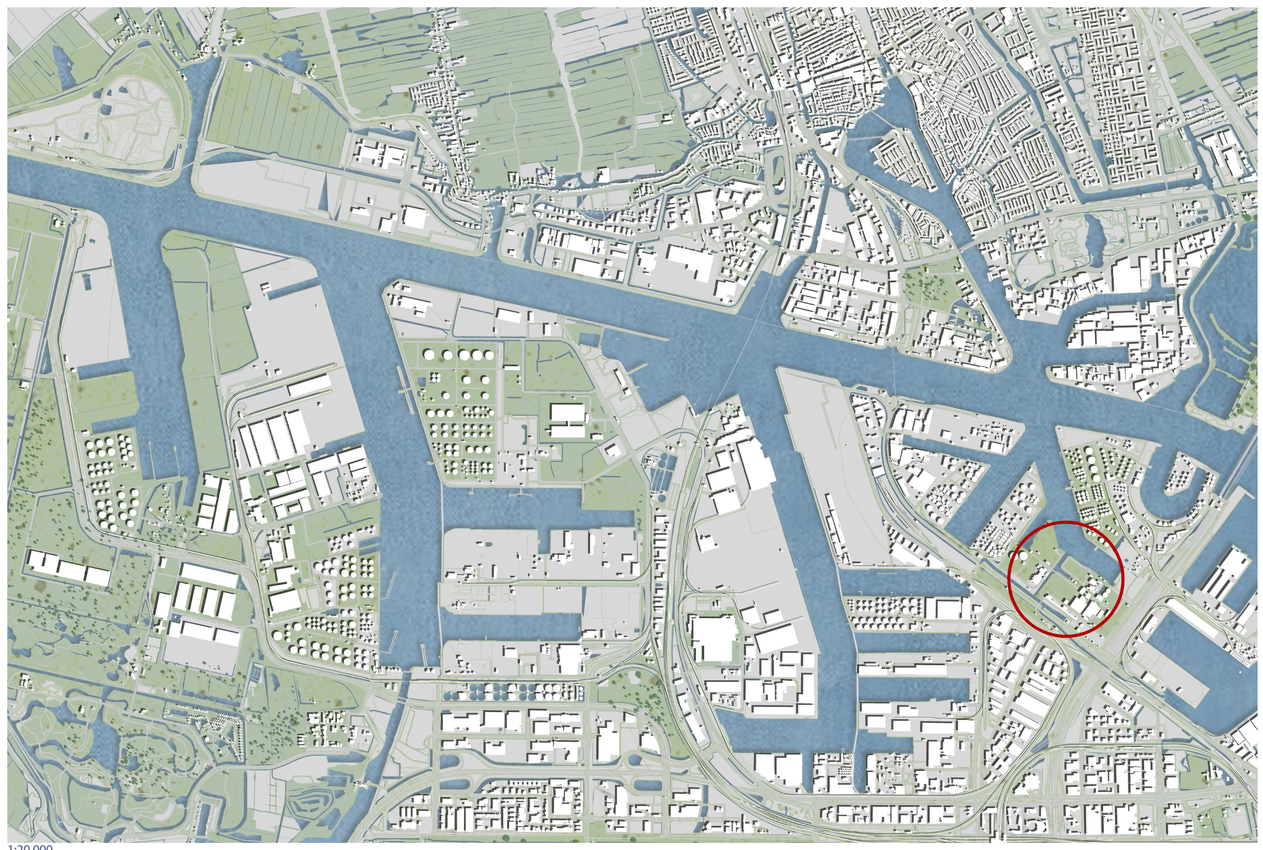
FIRST FLOOR 1:500



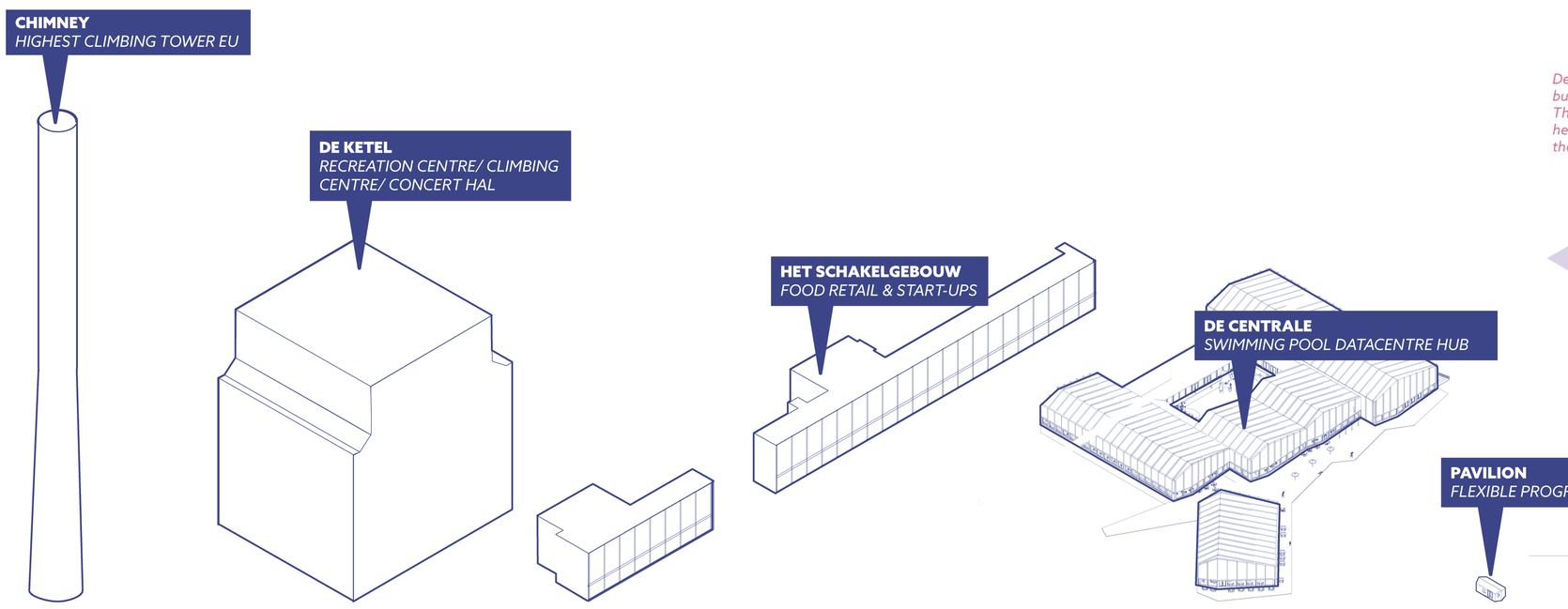
BASEMENT 1:500



SITEPLAN

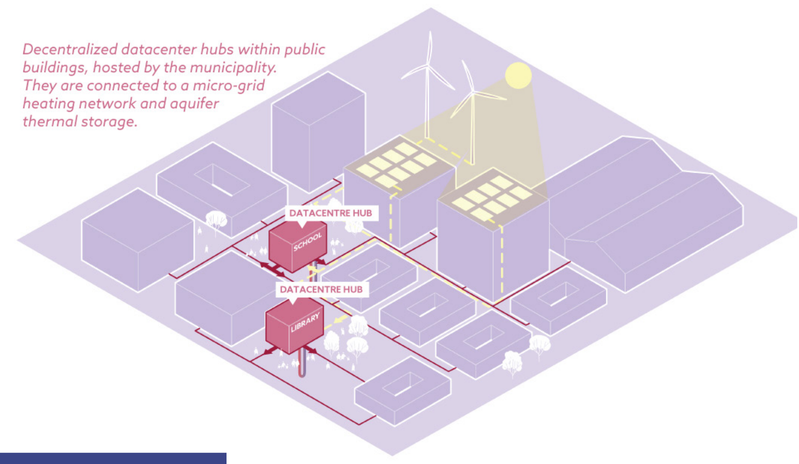


SCALES OF ASSEMBLY

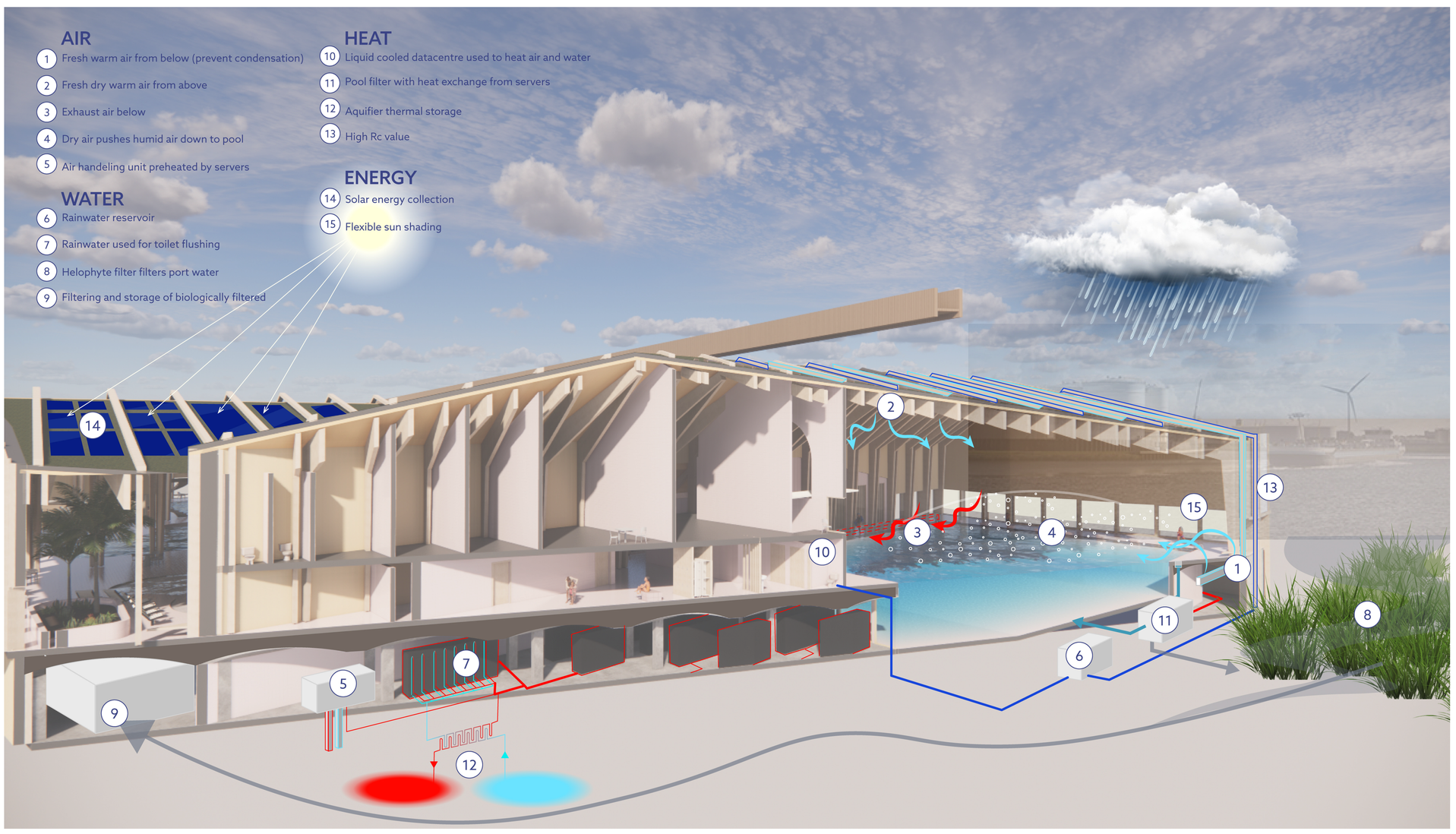


DECENTRALIZED DATACENTRE CONCEPT

Decentralized datacenter hubs within public buildings, hosted by the municipality. They are connected to a micro-grid heating network and aquifer thermal storage.



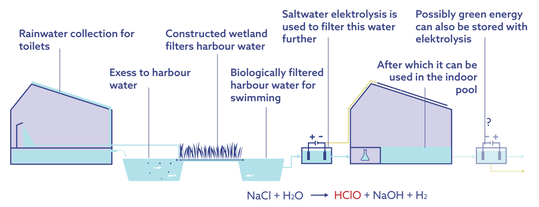
CLIMATE DIAGRAM



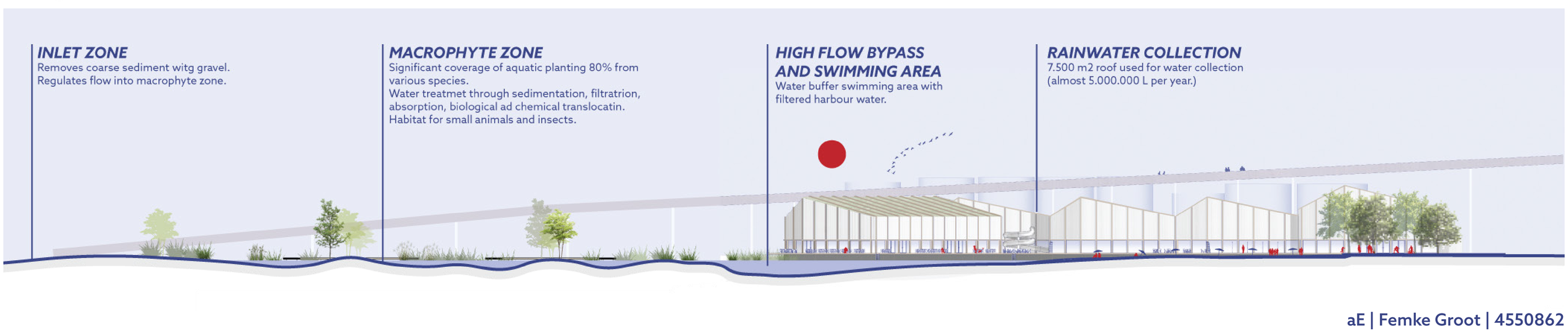
SEASONAL CHANGES

SUMMER
Ventilation type D.
Servers are disconnected when desired heat is reached.
Access heat is transported to the underground ATES storage and can be used by buildings connected to the microgrid heating network in the area.
Solar shades can be rolled down to prevent extra heat.
Doors to the inner garden can be opened for natural ventilation.

WINTER
Ventilation type D.
Most of the server heat is consumed by the pool heating system, any access heat is stored in the aquifer thermal storage.
Solar shades are rolled up to use as much heat from the sun.
Doors between pools can be closed to prevent heat loss between areas with different temperatures.



HELOPHYTE PARK



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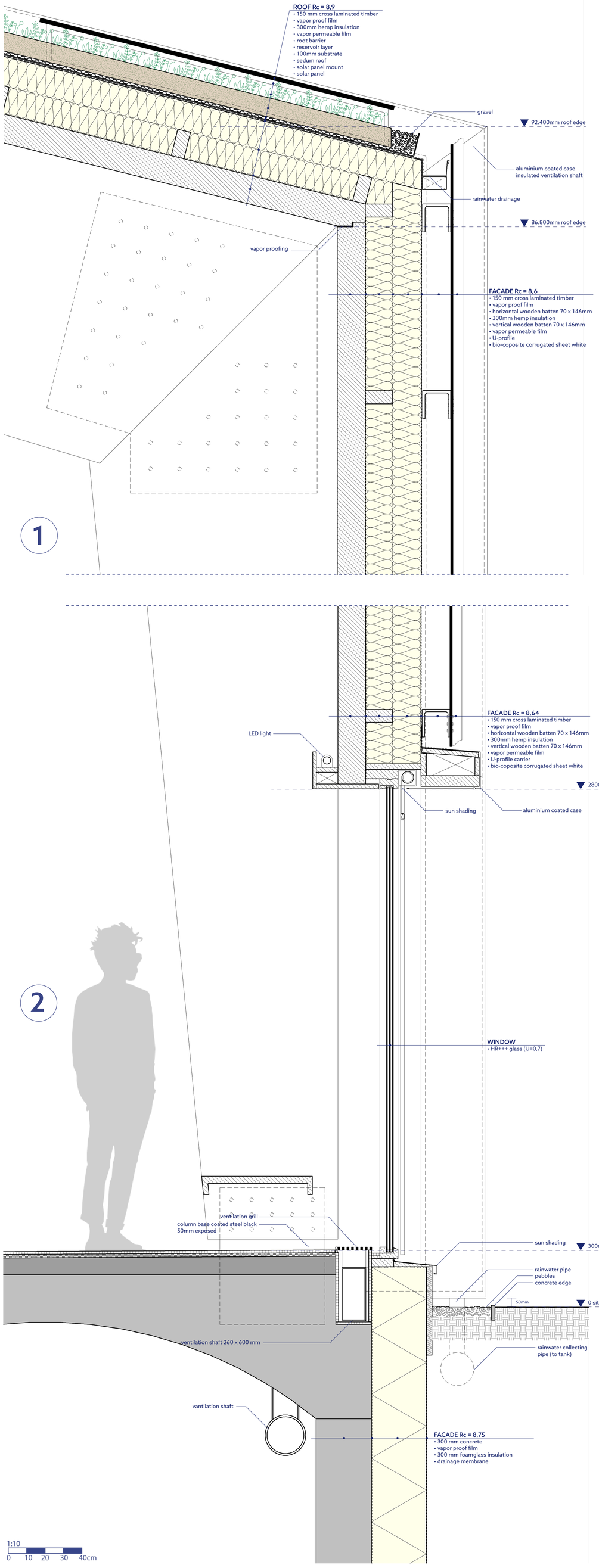
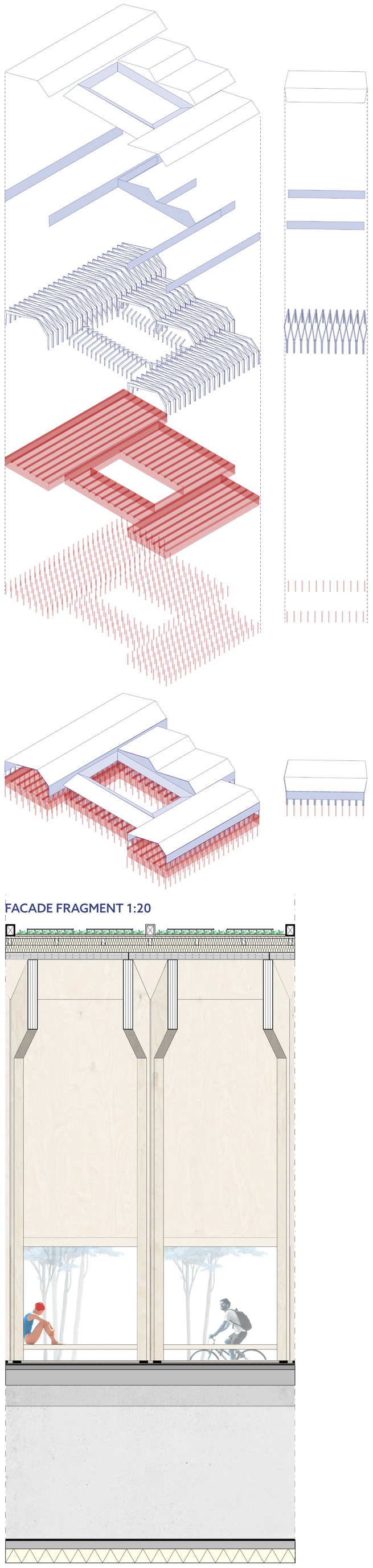
FACADE FRAGMENT

DETAILS 1:10



CONSTRUCTION

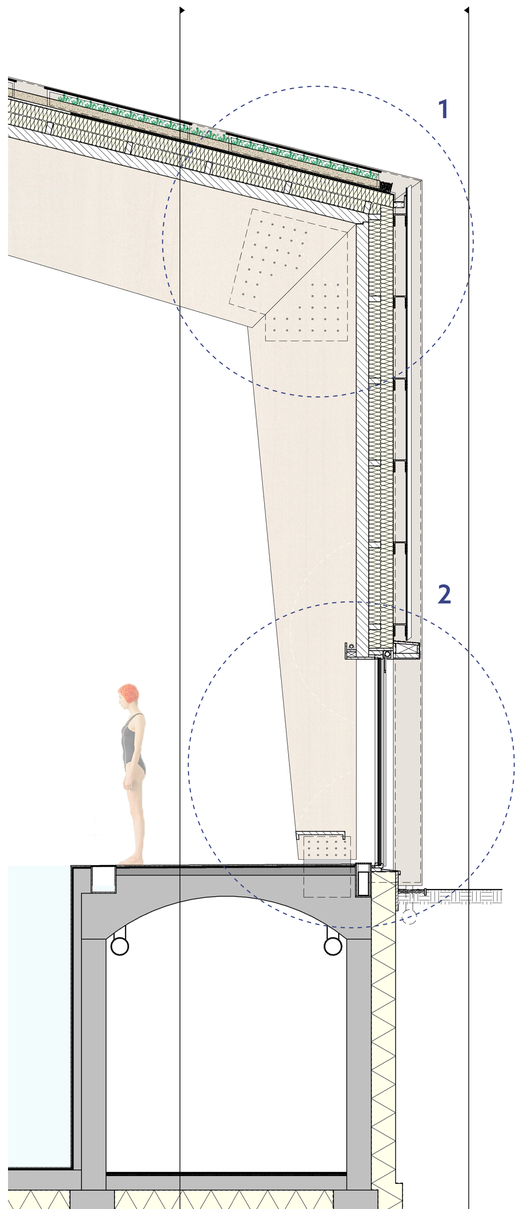


FACADE FRAGMENT 1:20

FACADE FRAGMENT 1:20

1:20
0 20 40 60 80cm

REFERENCES



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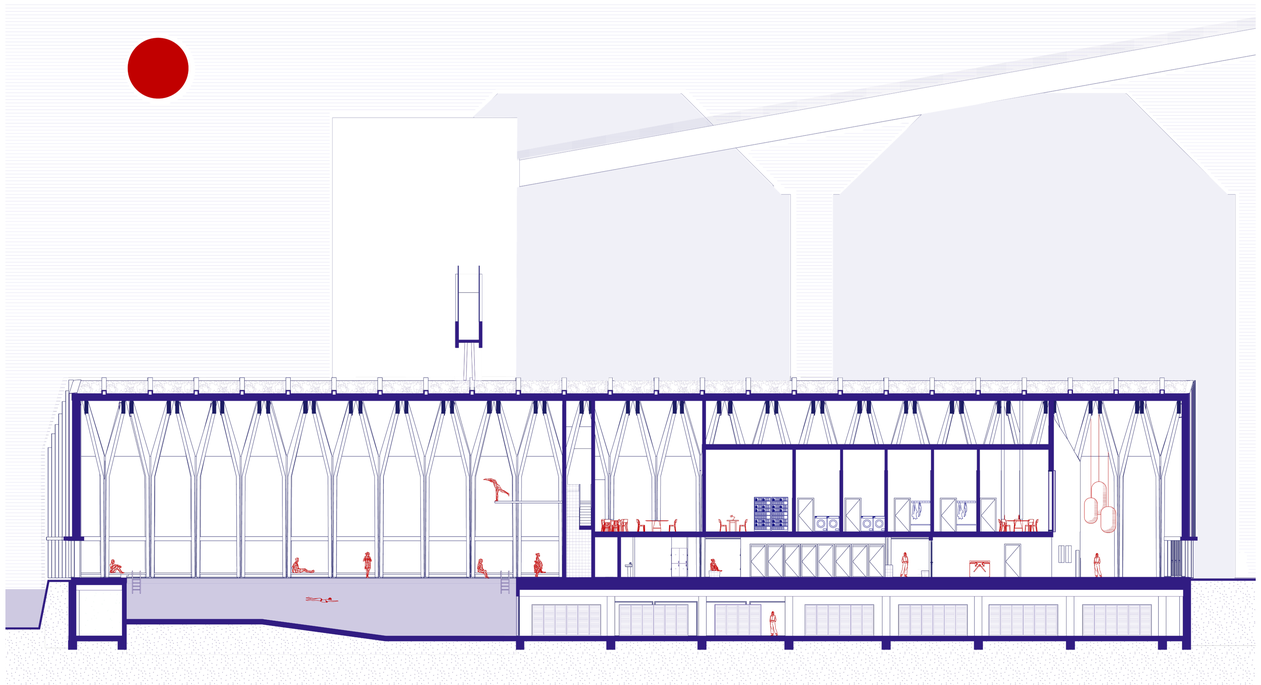
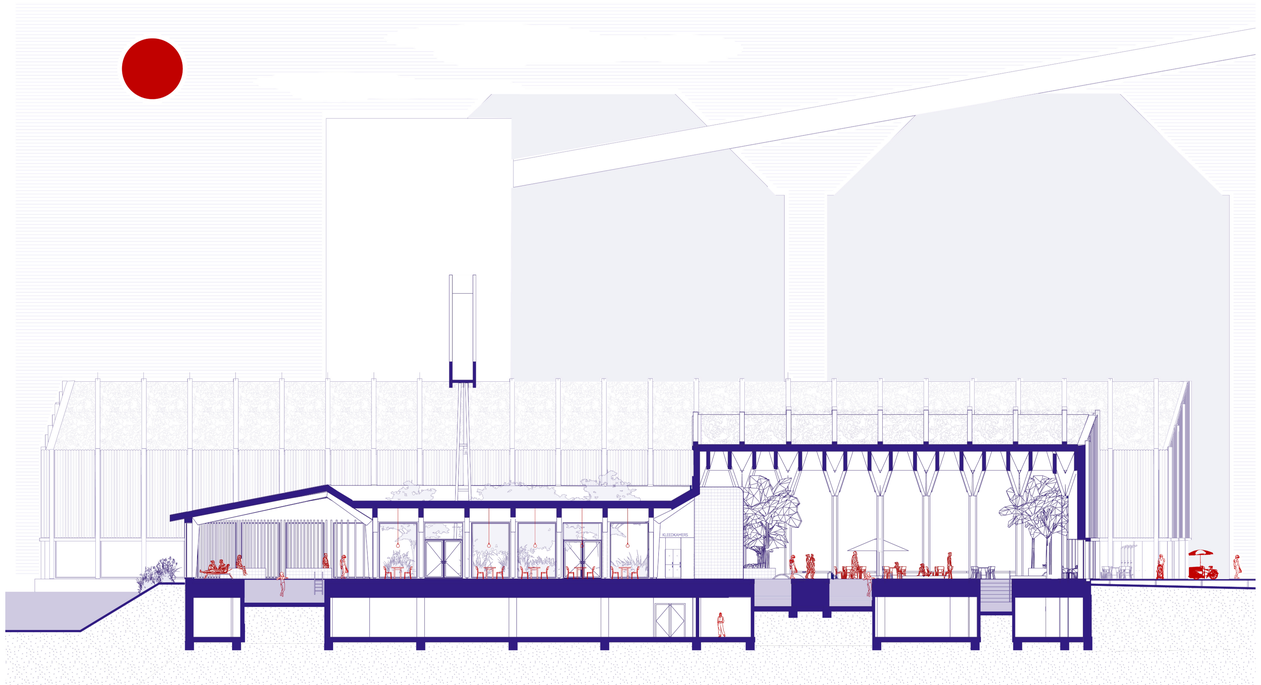
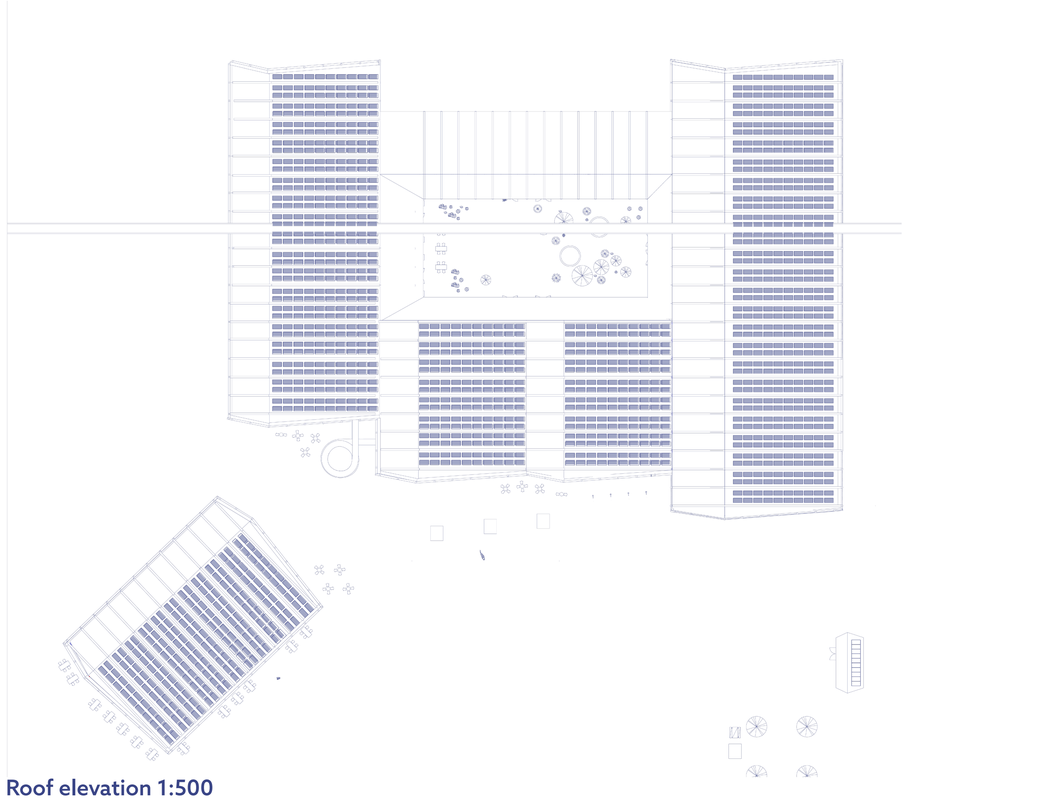
SECTIONS



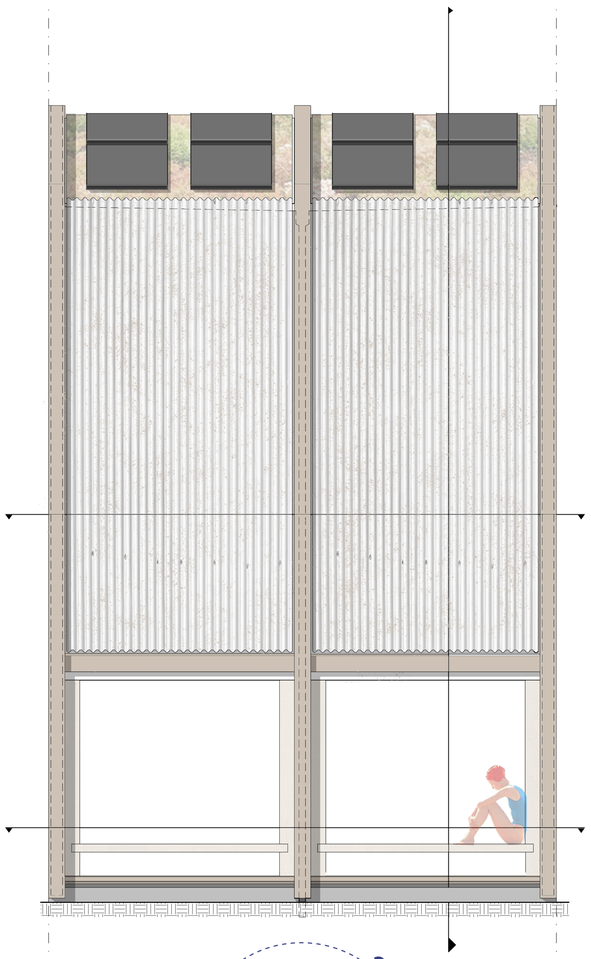
Section A 1:200



Section B 1:200



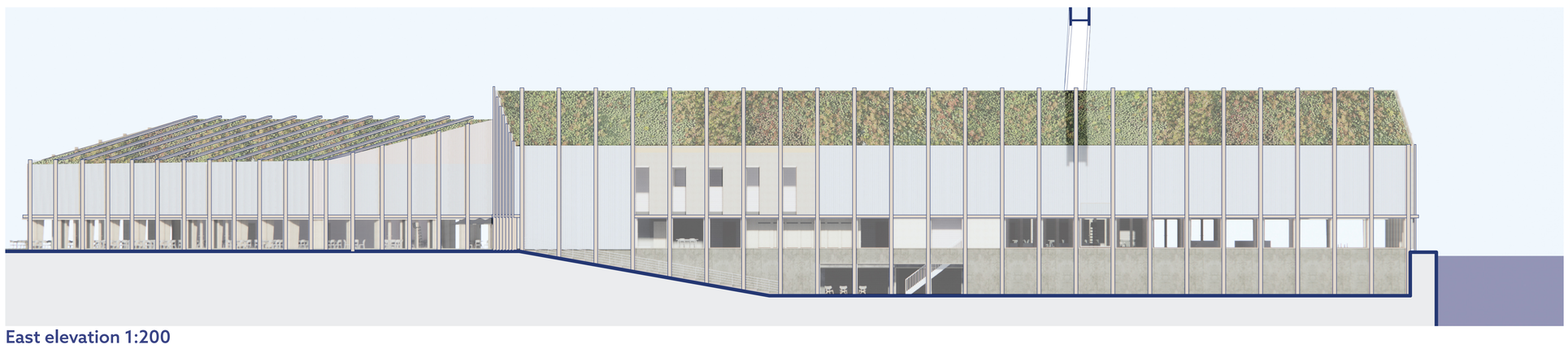
Roof elevation 1:500



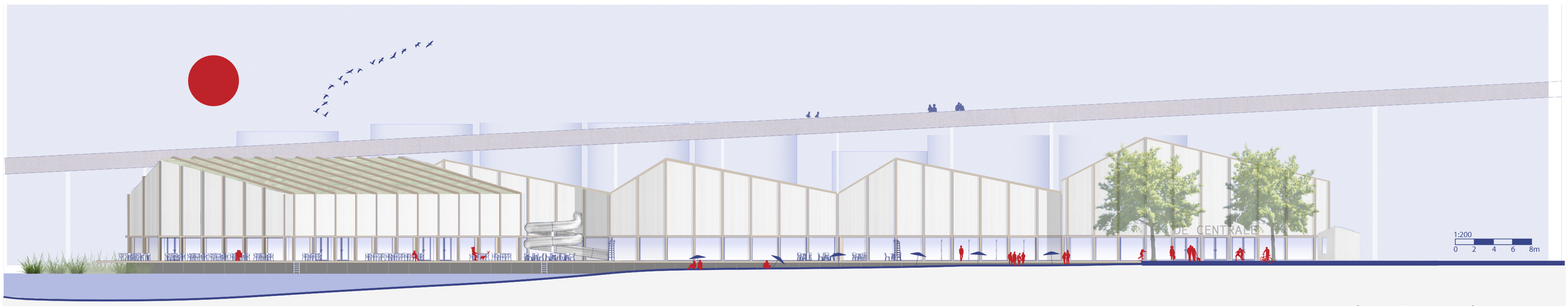
ELEVATIONS

West elevation 1:200

North elevation 1:200



East elevation 1:200



South elevation 1:200

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