

RECREATIONAL SPORTS CENTRE

TU Delft
Architecture and the Built Environment
Graduation studio Urban Architecture
Zhenduo Feng
30/08/2022

URBAN PROPOSAL

ARCHITECTURAL PROPOSAL

MATERIAL PROPOSAL



MAASTRICHT

CITY



Bélvédere Steenfabriek

MOSA Keramische industrie

Staatswerken

Papierfabriek

Gasfabriek

Radiumfabriek

Glasfabriek/Sphinx

Nagelfabriek

MAASTRICHT

Zoutziederij Marres

Broodfabriek

Société Céramique

Philips Tobaksfabriek

INDUSTRIAL/POST-INDUSTRIAL

ENCI Groeve

JEMA

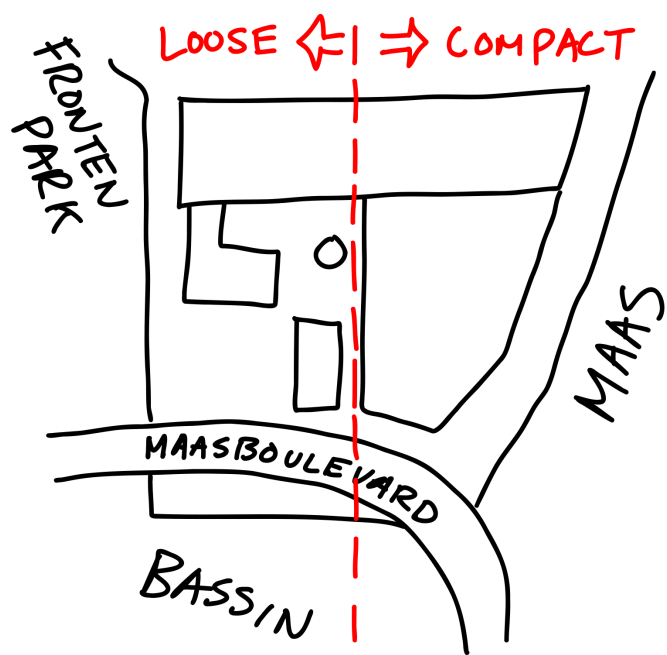


SITE:
A POST-INDUSTRIAL AREA

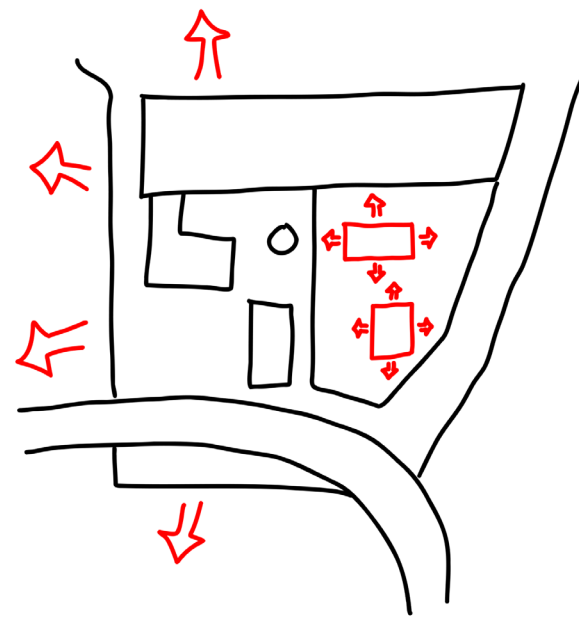
SITE



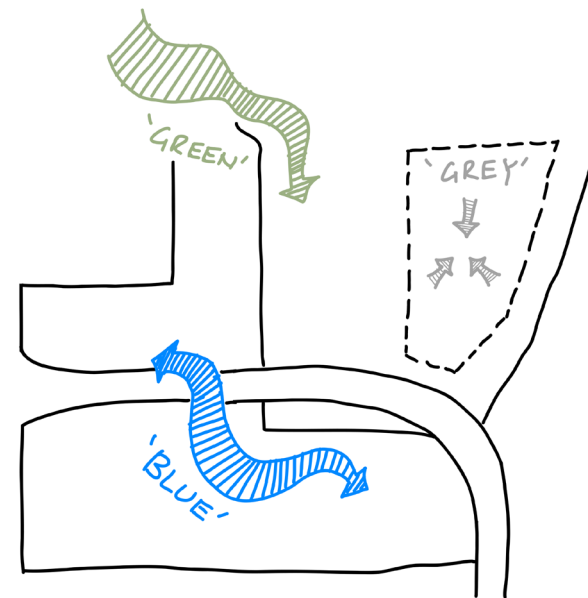
DESIGN SCOPE



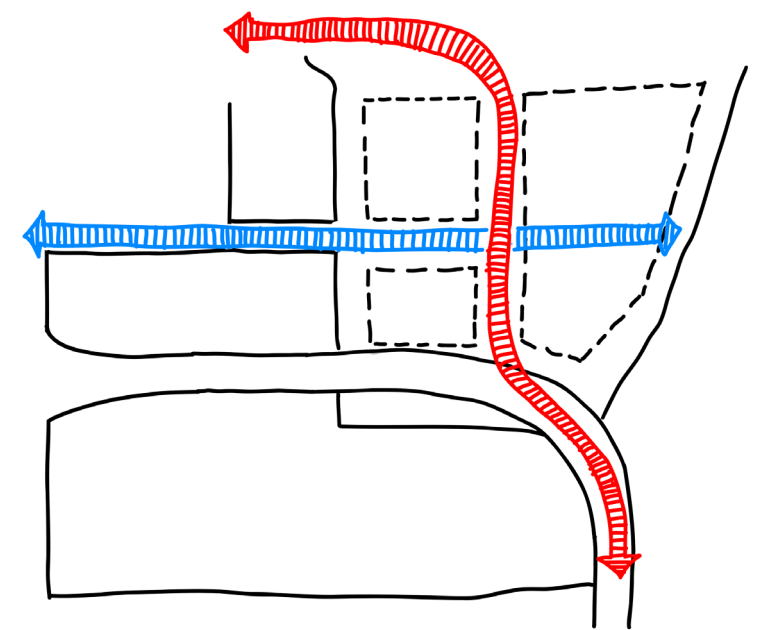
READING



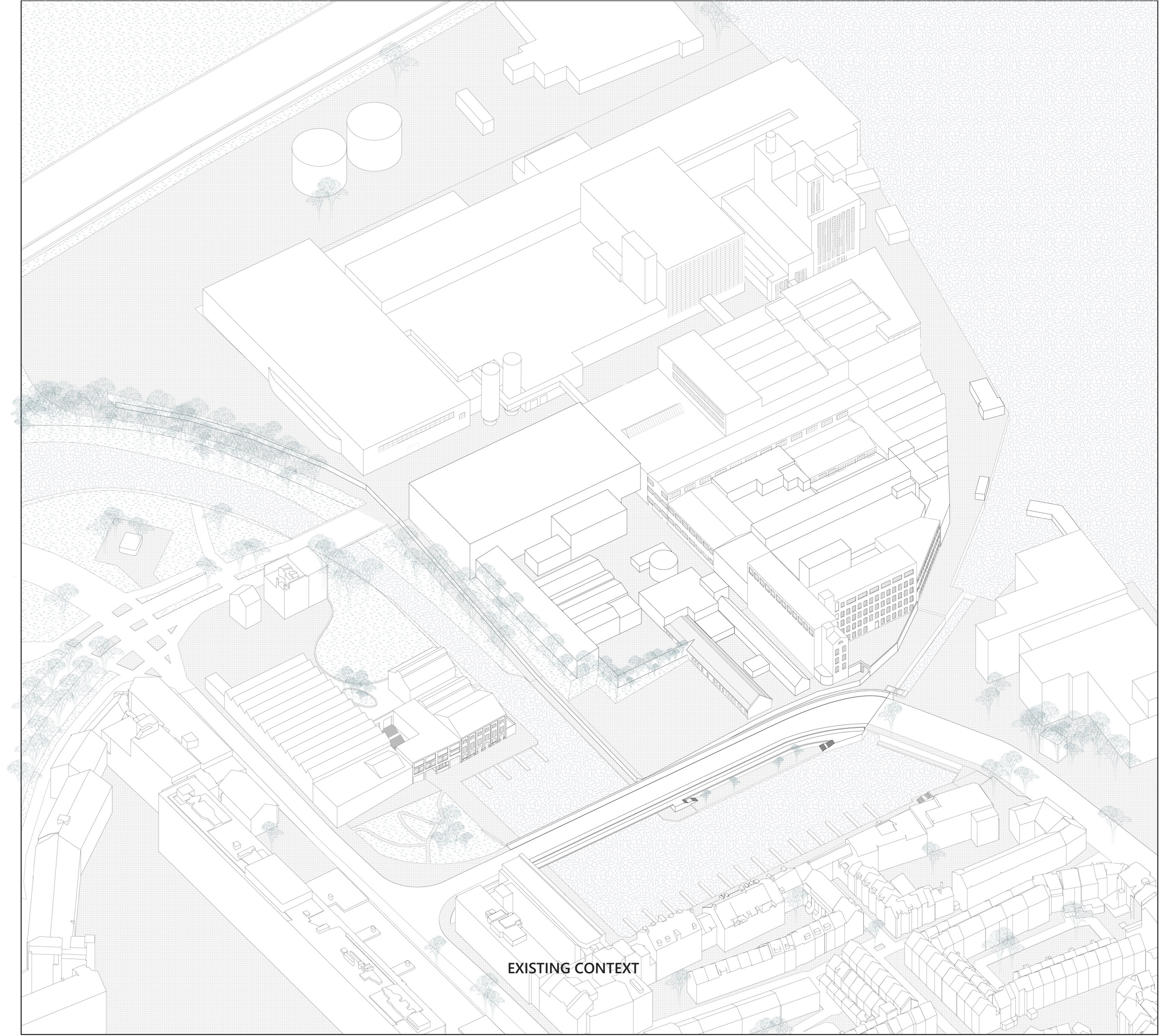
AMBITIONING



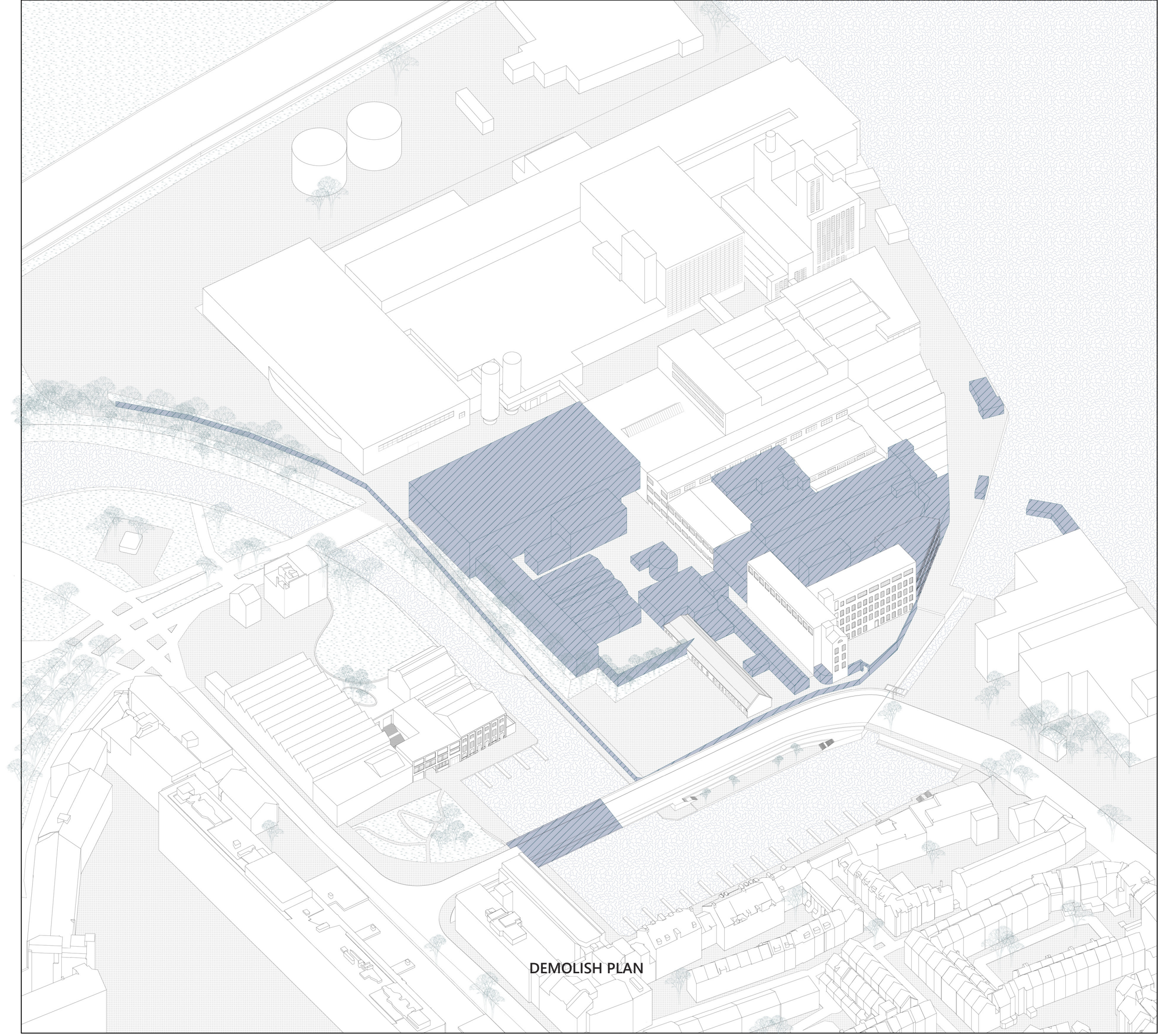
GLEANNING



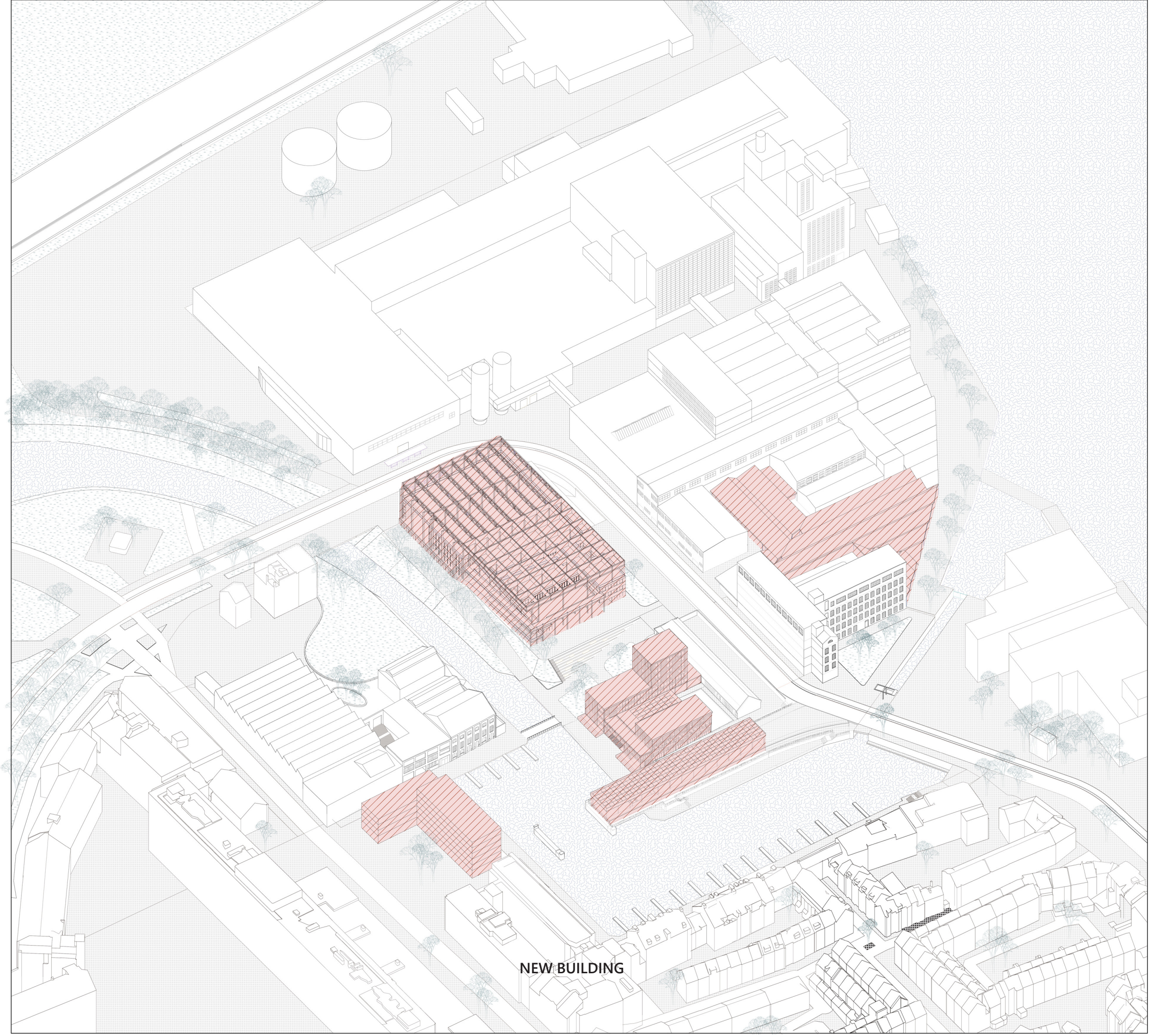
ORGANIZING



EXISTING CONTEXT

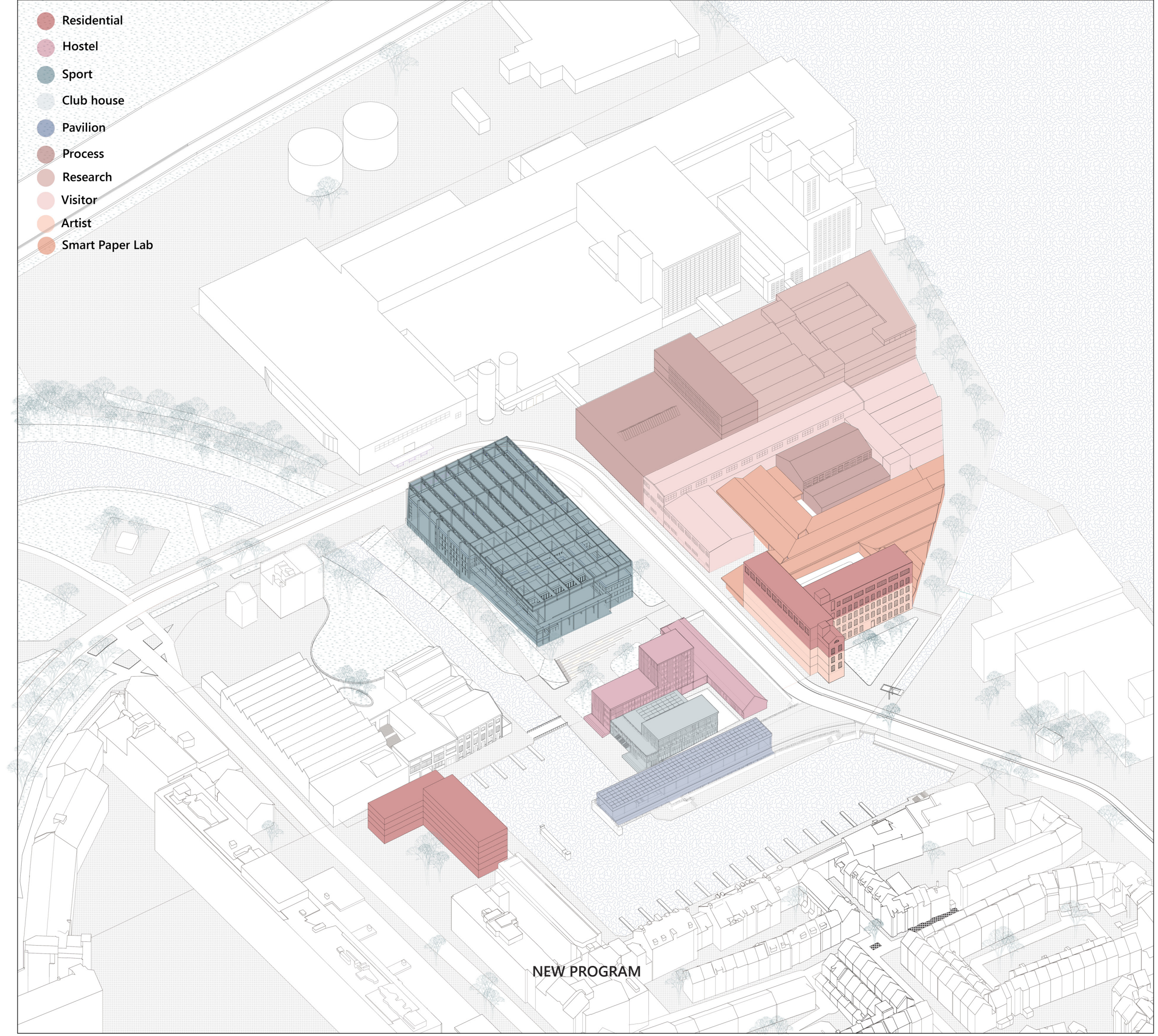


DEMOLISH PLAN

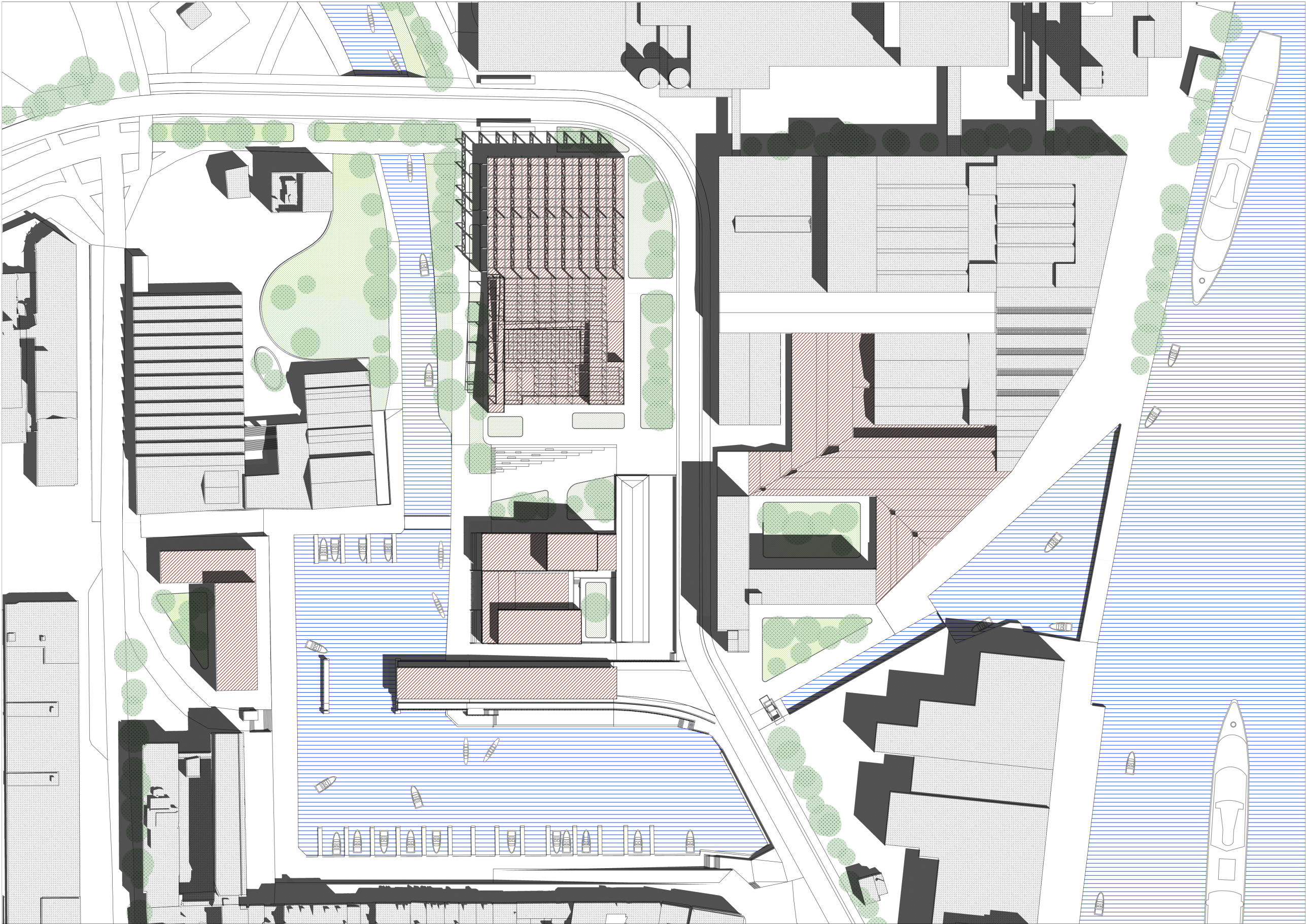


NEW BUILDING

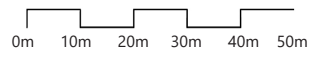
- Residential
- Hostel
- Sport
- Club house
- Pavilion
- Process
- Research
- Visitor
- Artist
- Smart Paper Lab

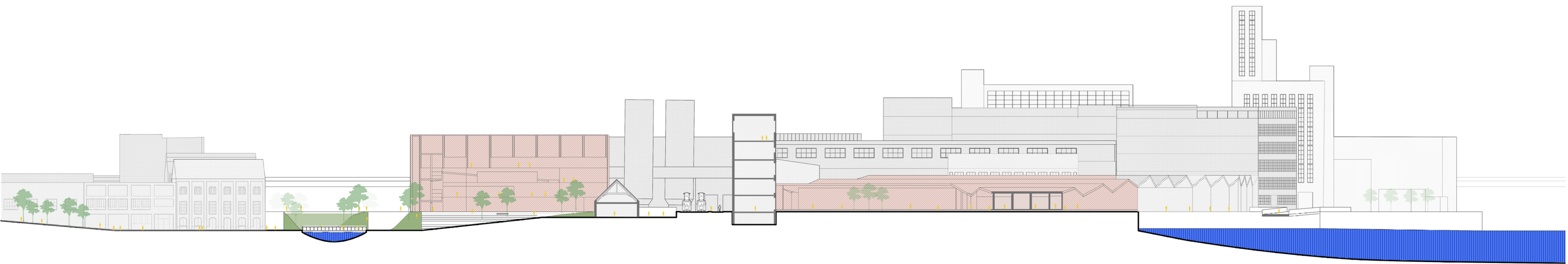
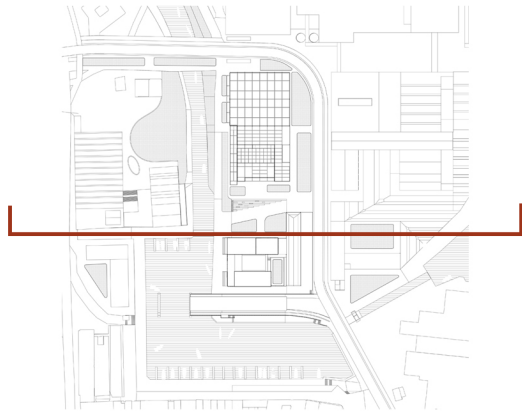


NEW PROGRAM



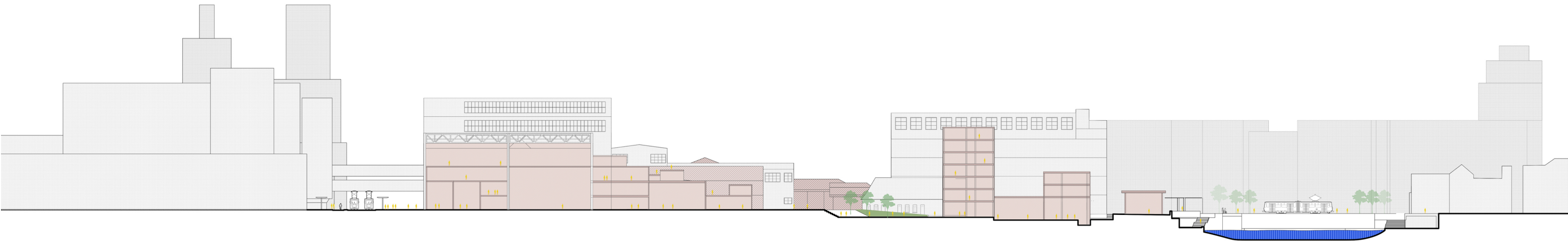
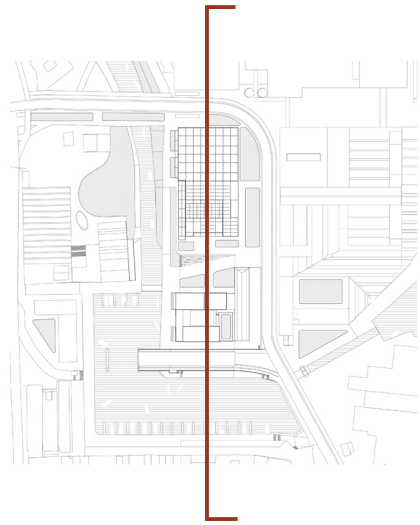
URBAN PLAN 1:1000





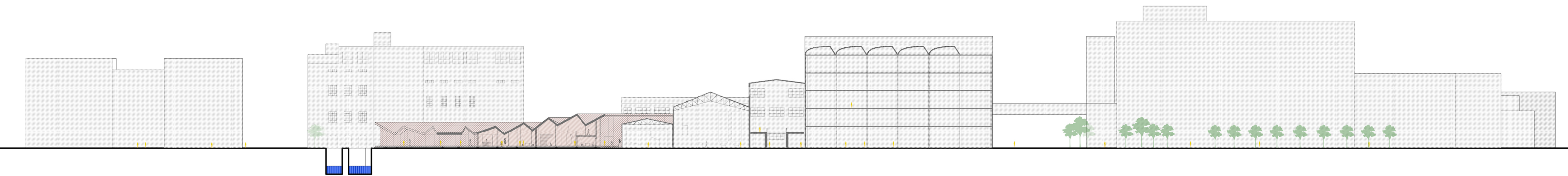
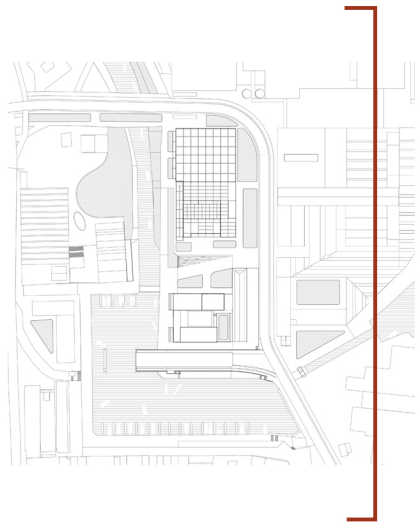
SECTION1 1:500

0m 10m 20m 30m 40m 50m



SECTION2 1:500

0m 10m 20m 30m 40m 50m



SECTION3 1:500

0m 10m 20m 30m 40m 50m



ENTRANCE FROM LUMIERE



DESIGN SCOPE OF ARCHITECTURAL PROPOSAL

what elements does
an industrial island
have contributing to a
new adaptive reuse?

adaptive

how the old elements adapt to the new program ?

how the the new program accord with the old elements ?

reuse

tangible

material

structure

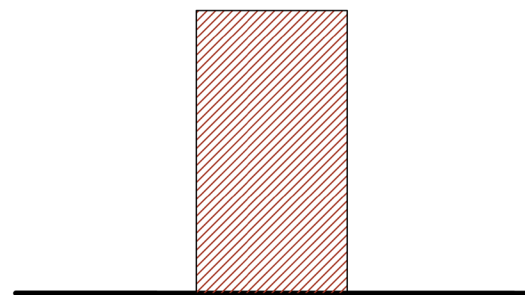
intangible

hierachy

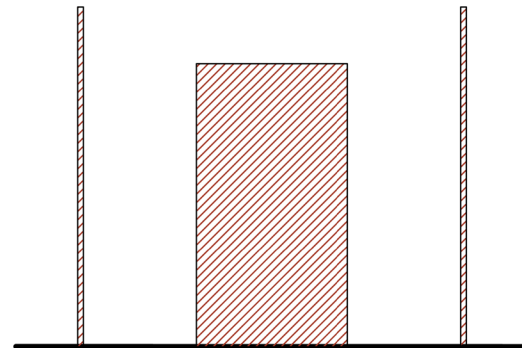
scale

atmosphere

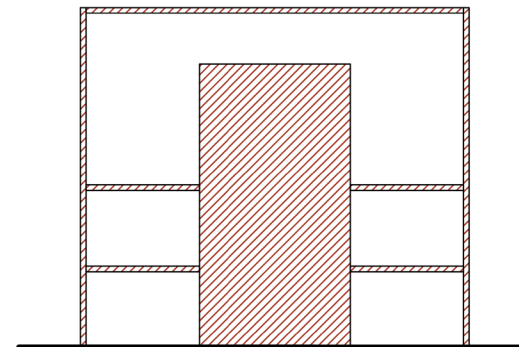
ADAPTIVE REUSE



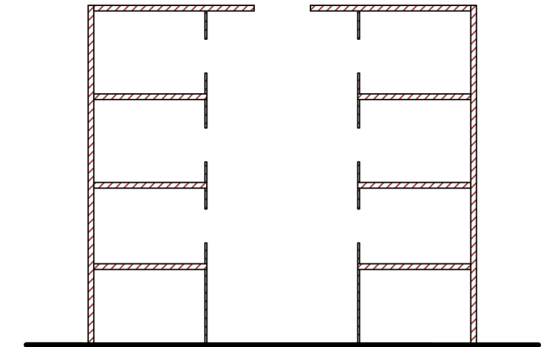
machine



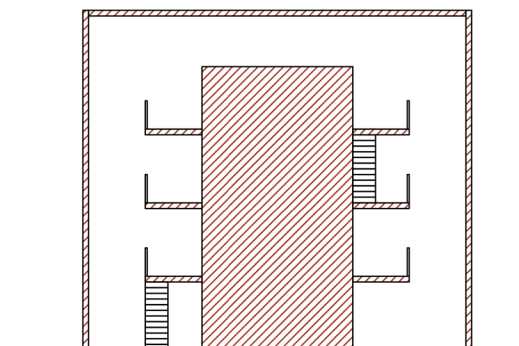
wall



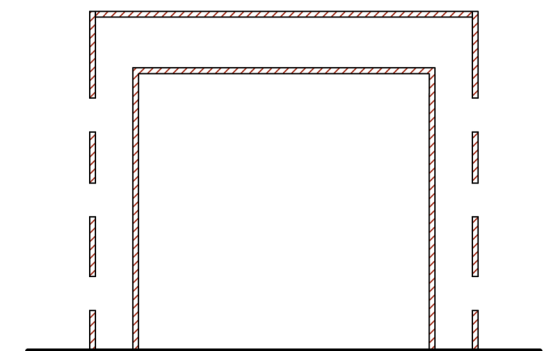
roof and floor



atrium

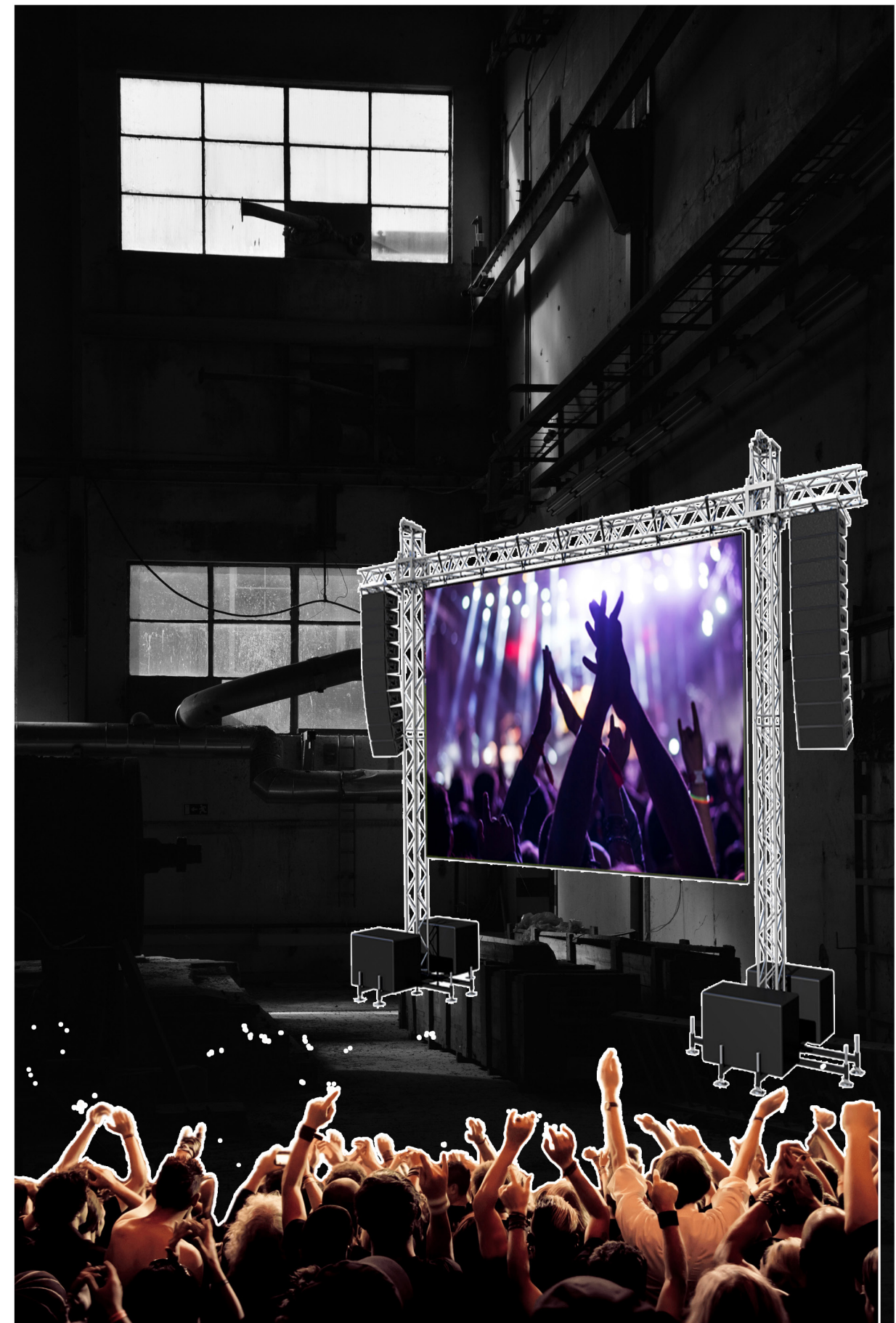


roof



facade

HIERARCHY



ATMOSPHERE



ATMOSPHERE

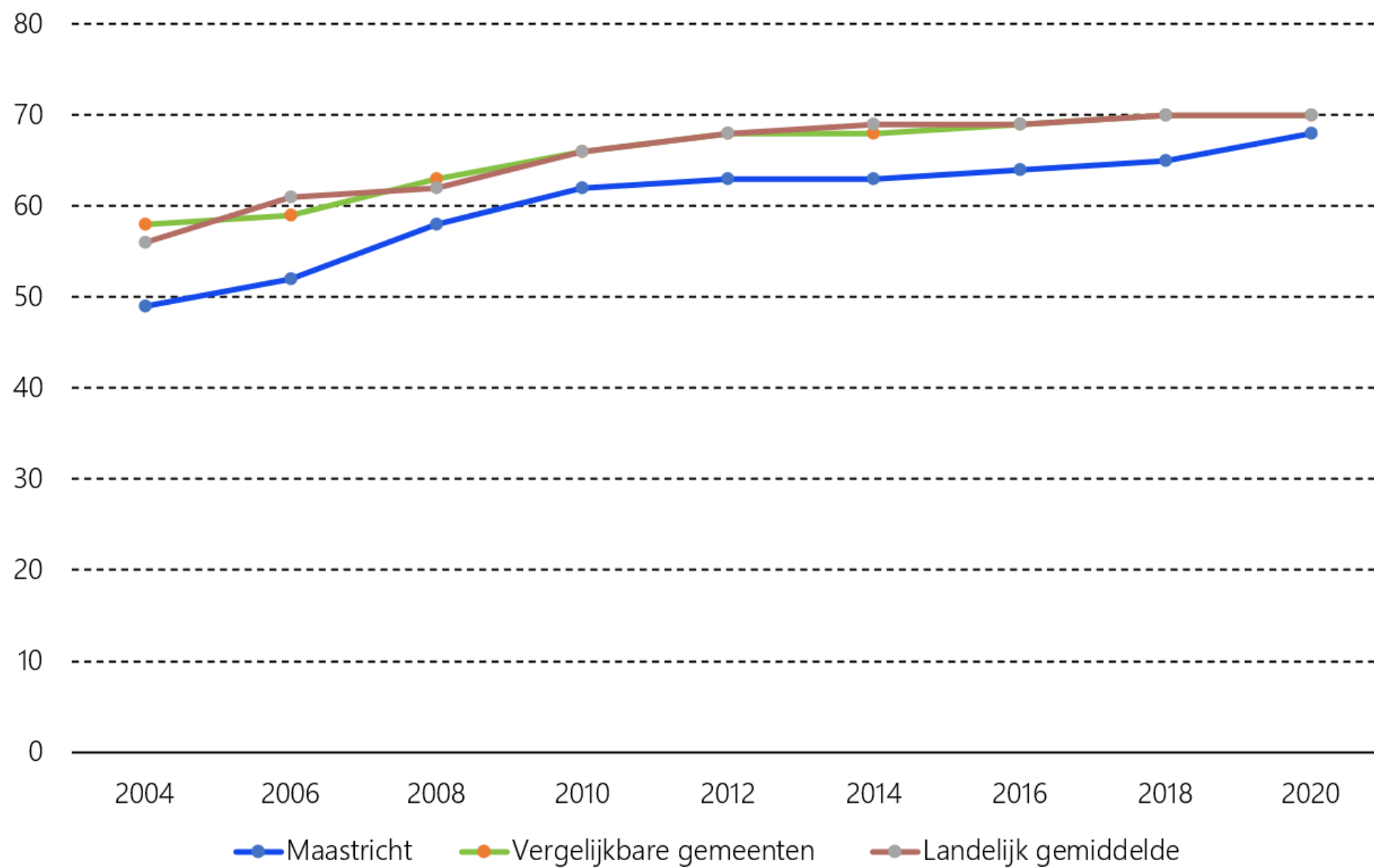


SCALE

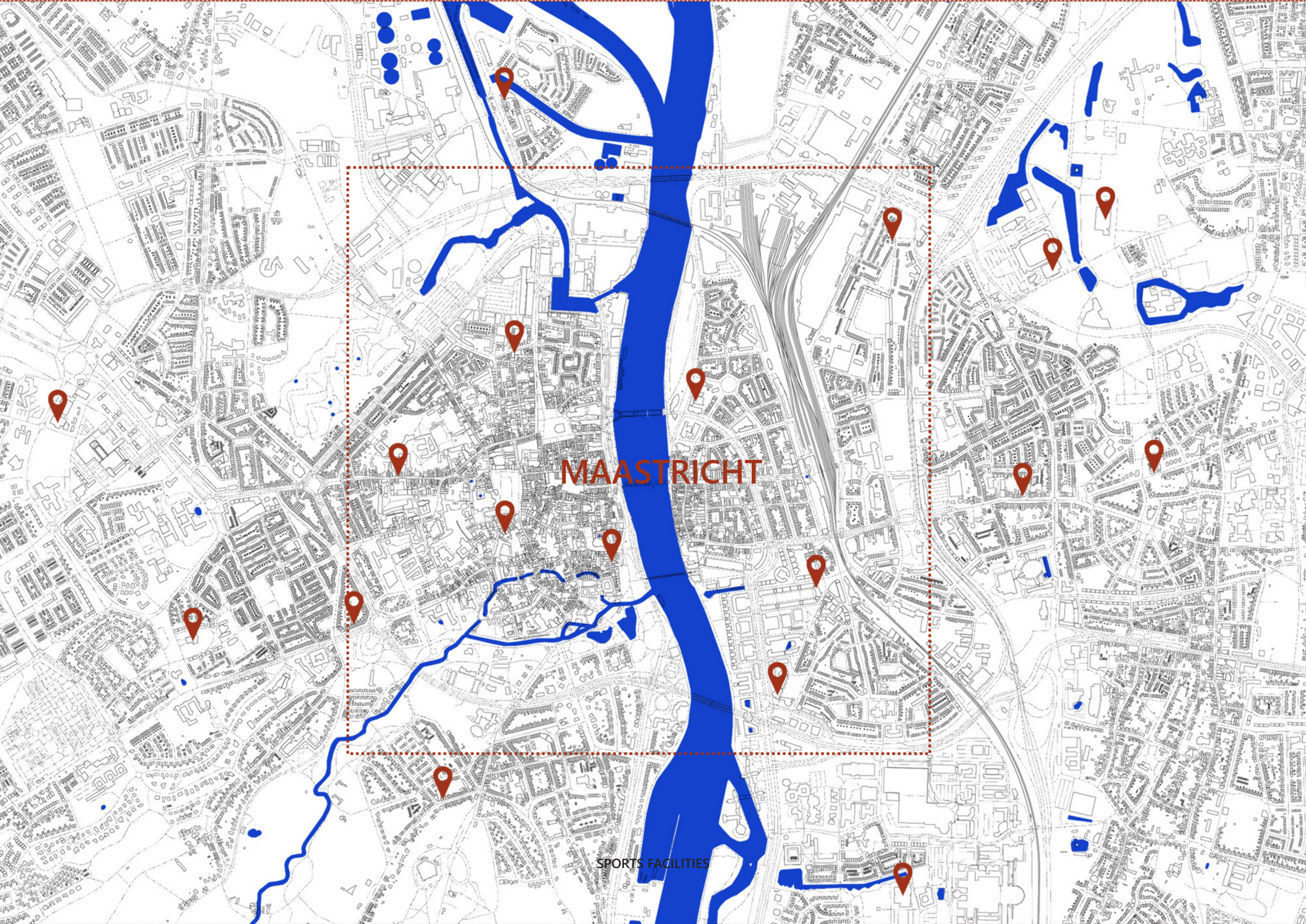
Mee®bewegen

Sportnota 2020

SPORTDEELNAME MAASTRICHT

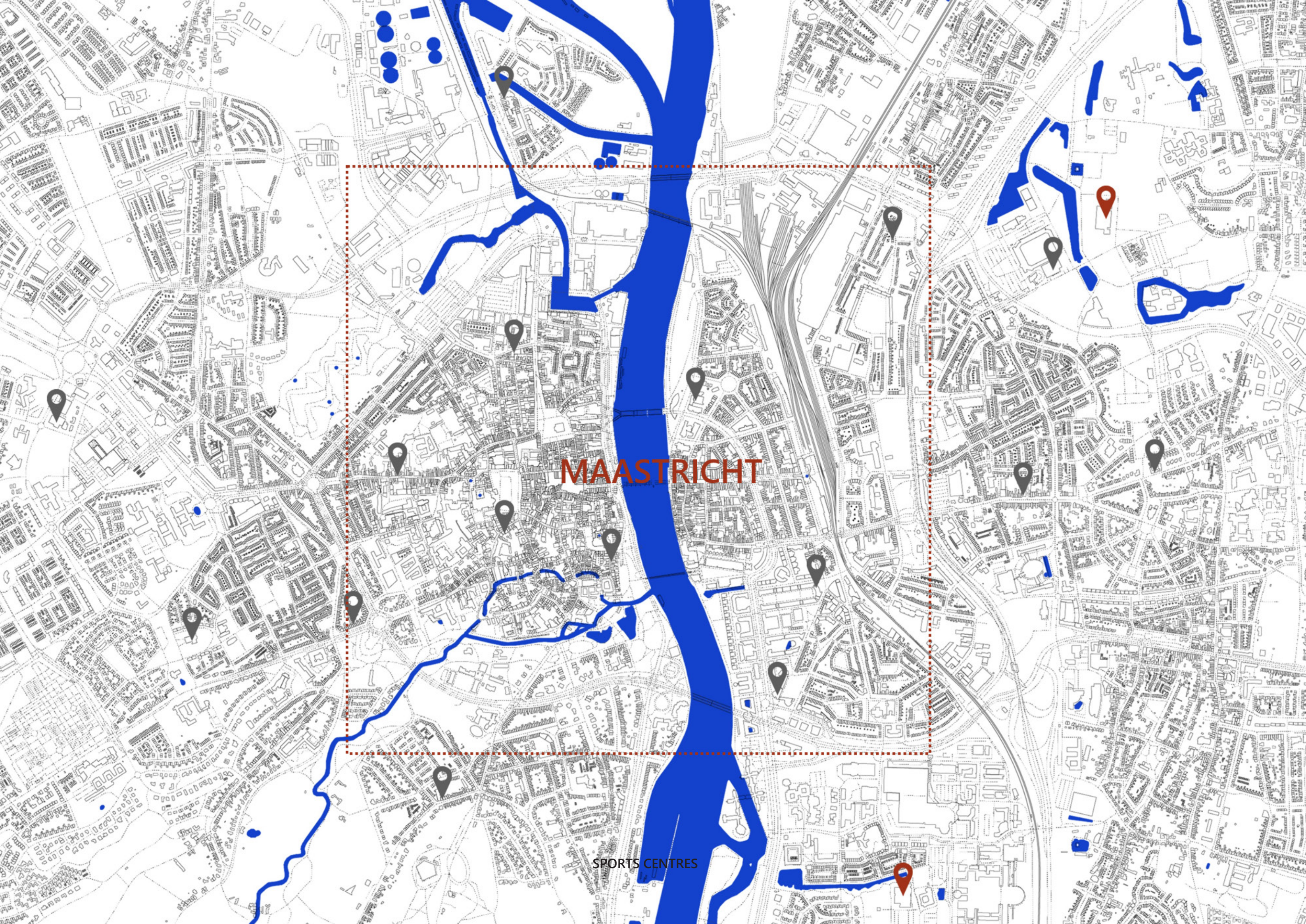


SPORTS PARTICIPATION



MAASTRICHT

SPORTS FACILITIES

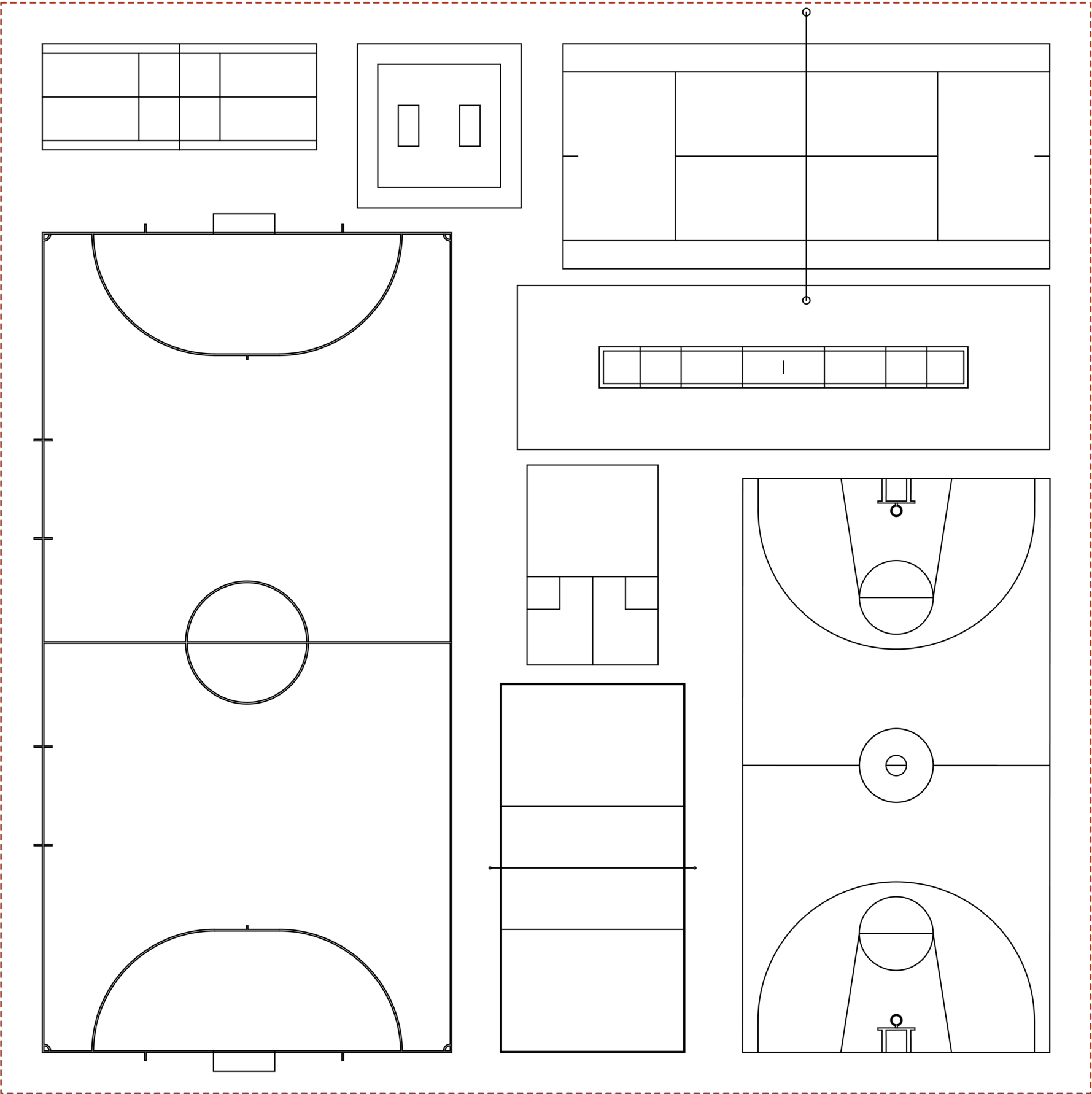


MAASTRICHT

SPORTS CENTRES

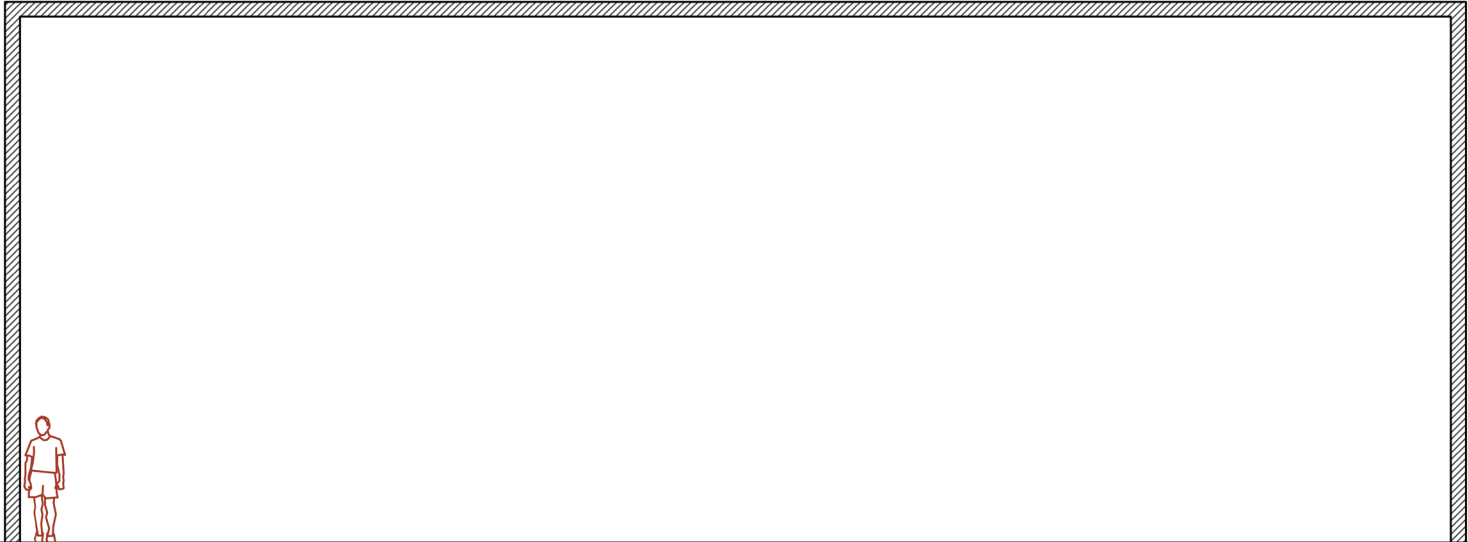


CITY AND SPORTS

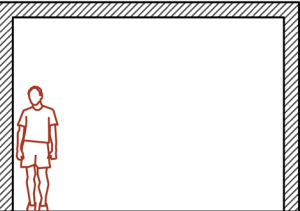


THRESHOLD

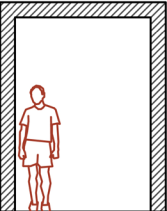
sports hall



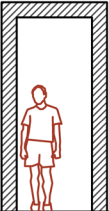
changing
room



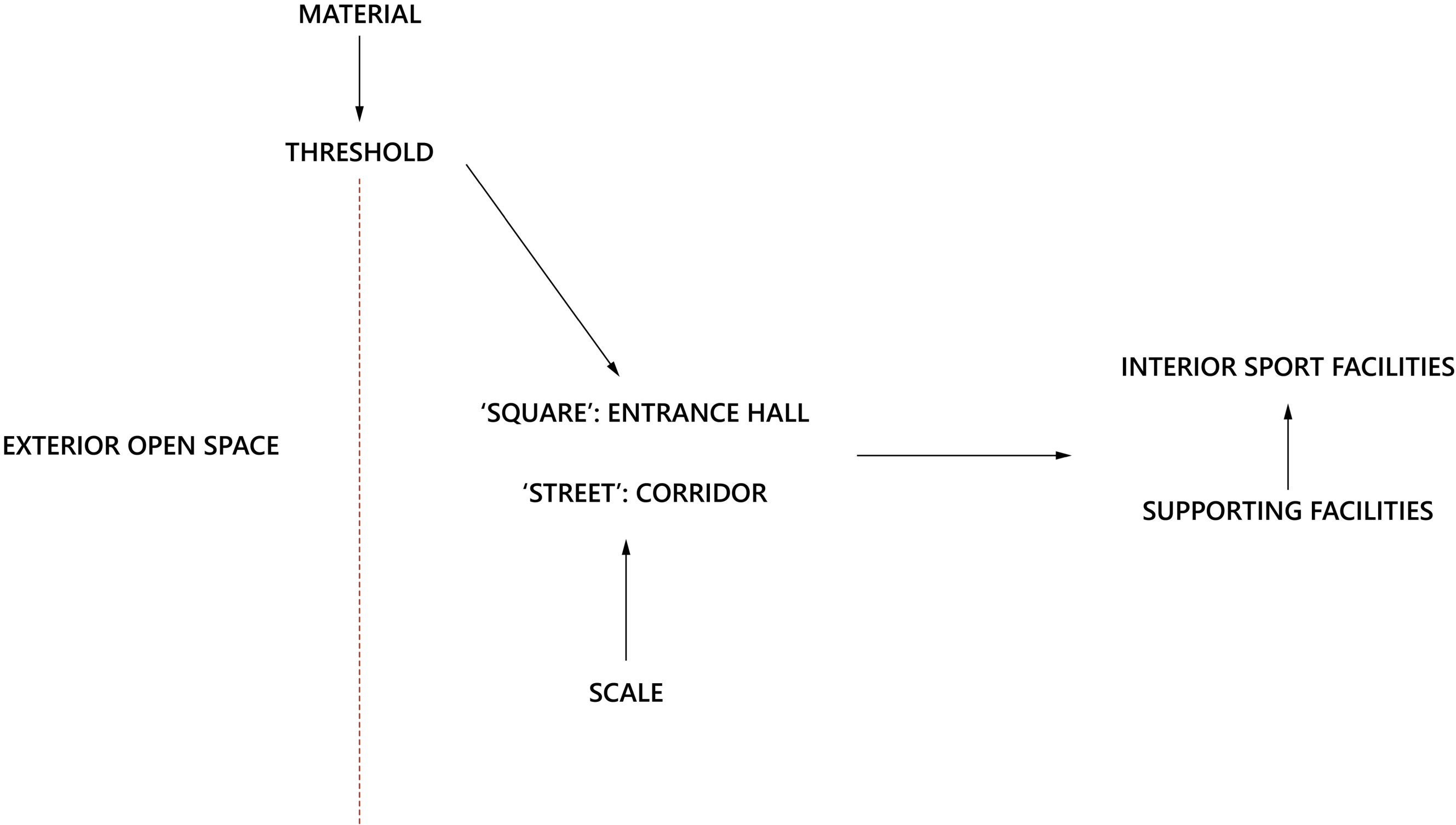
corridor

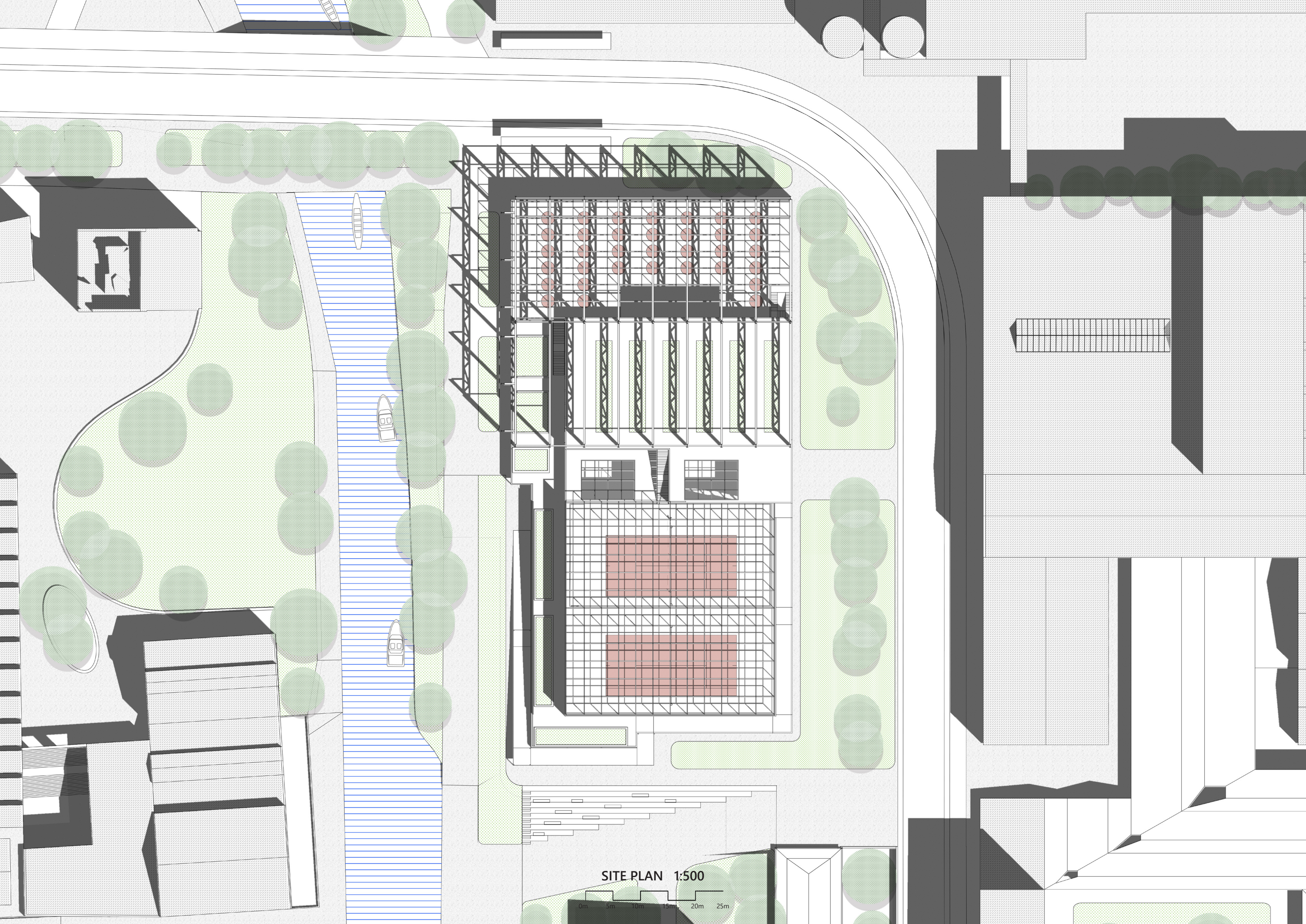


toilet/shower



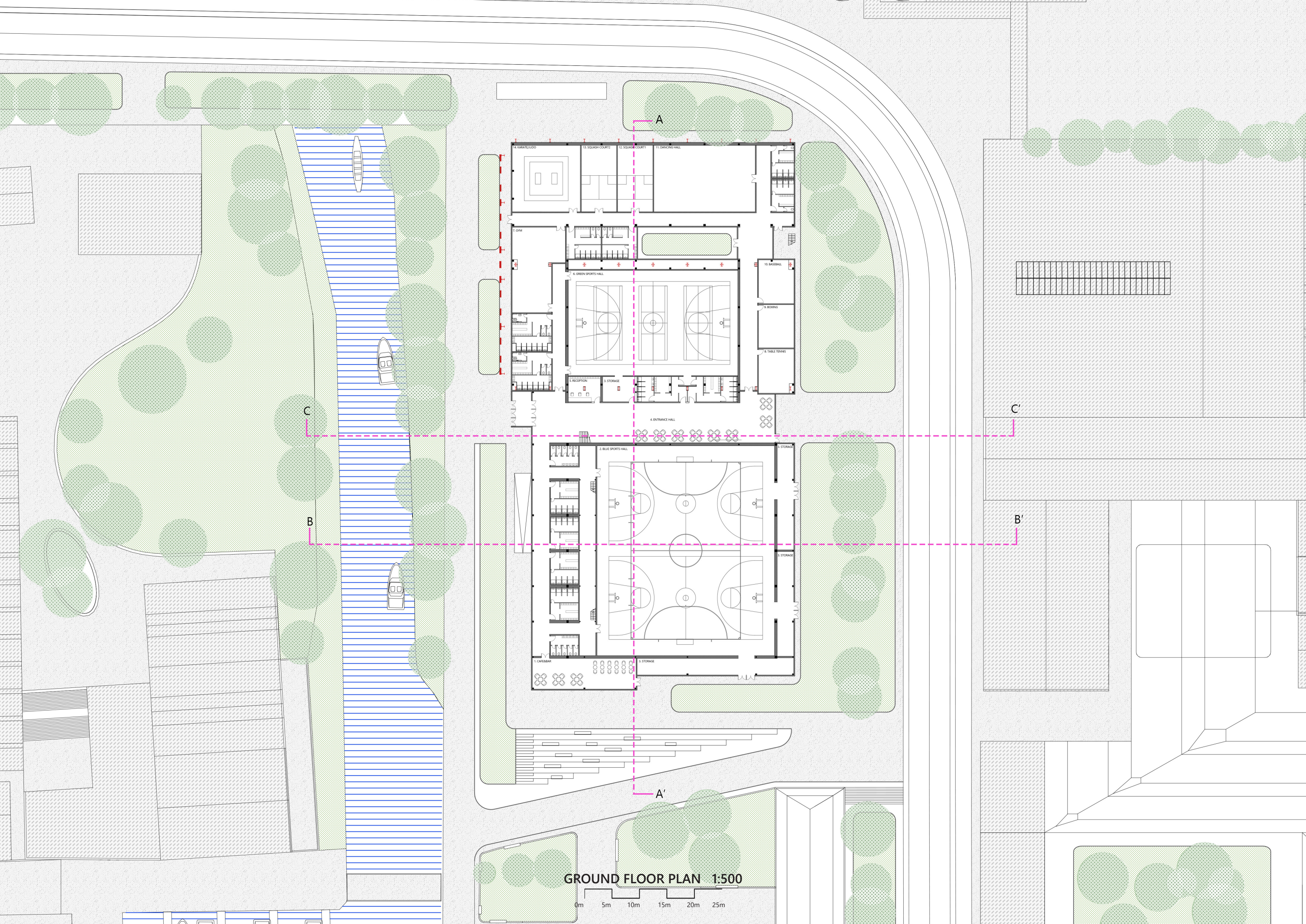
SCALE





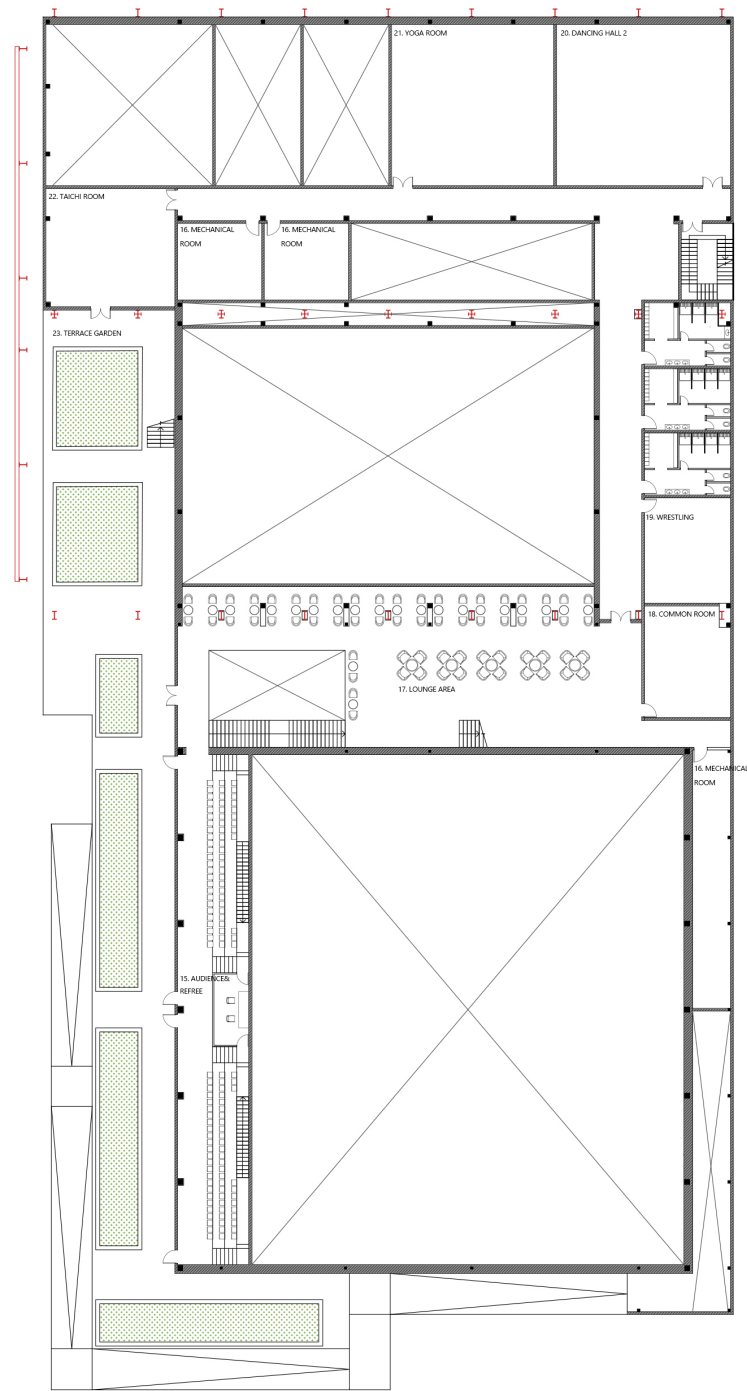
SITE PLAN 1:500



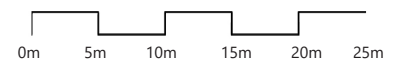


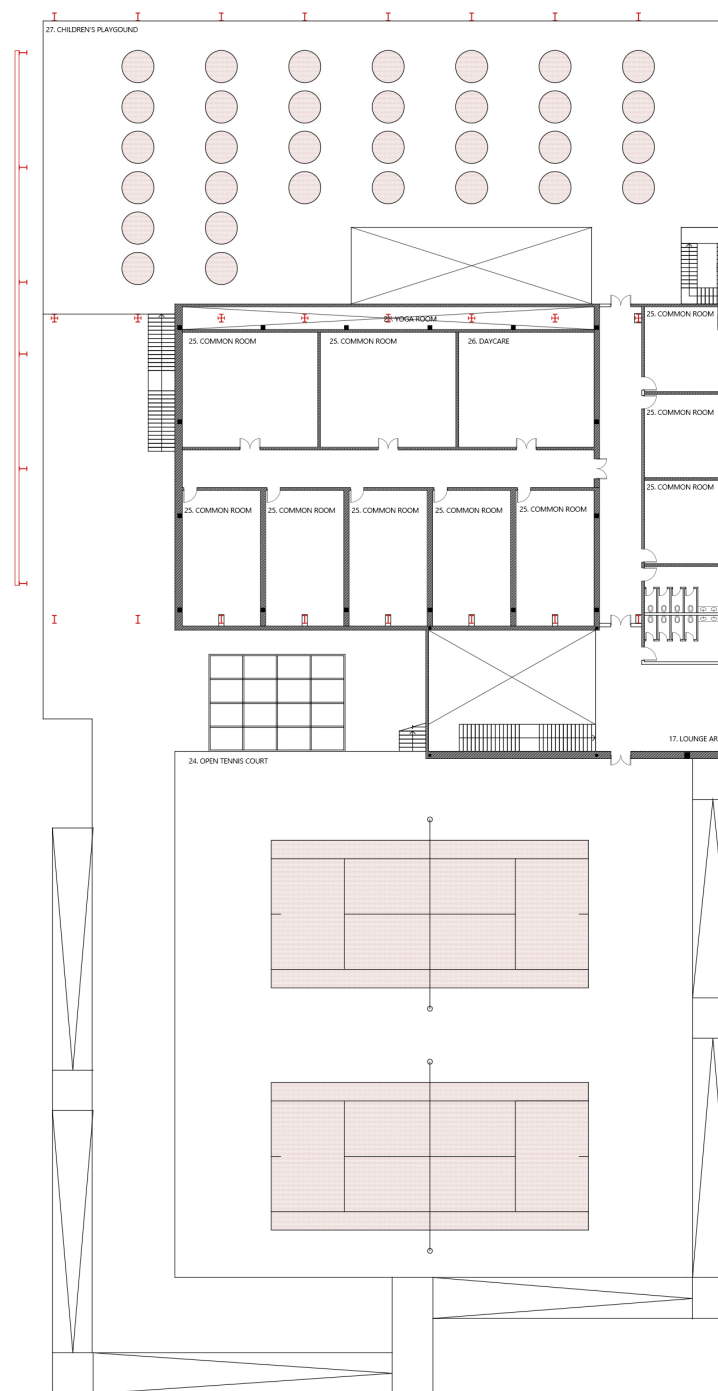
GROUND FLOOR PLAN 1:500

0m 5m 10m 15m 20m 25m

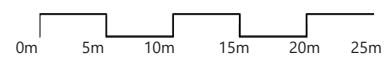


FIRST FLOOR PLAN 1:500

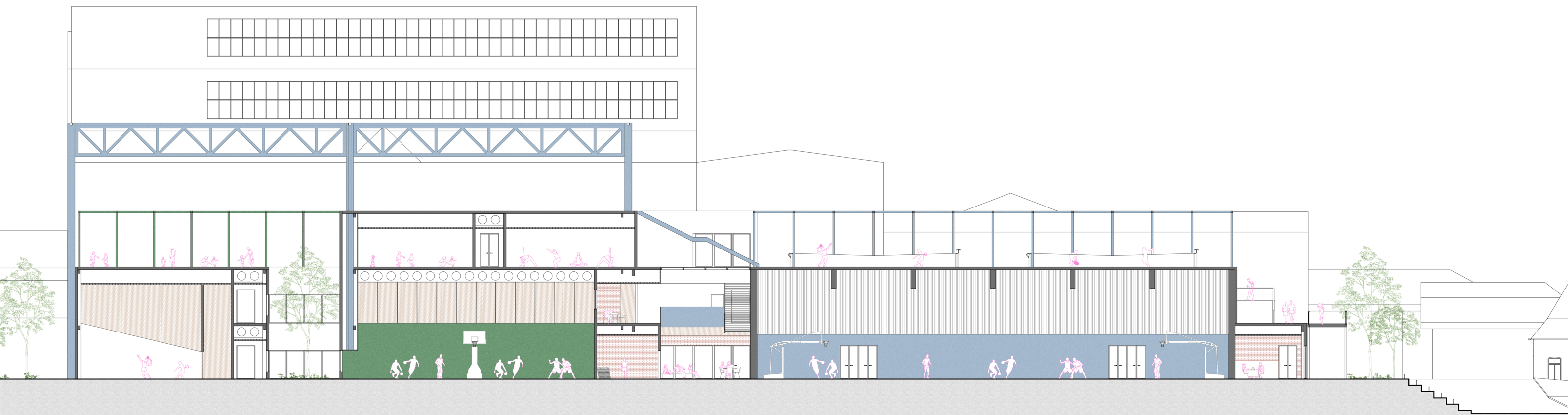




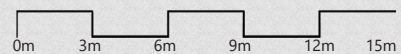
SECOND FLOOR PLAN 1:500







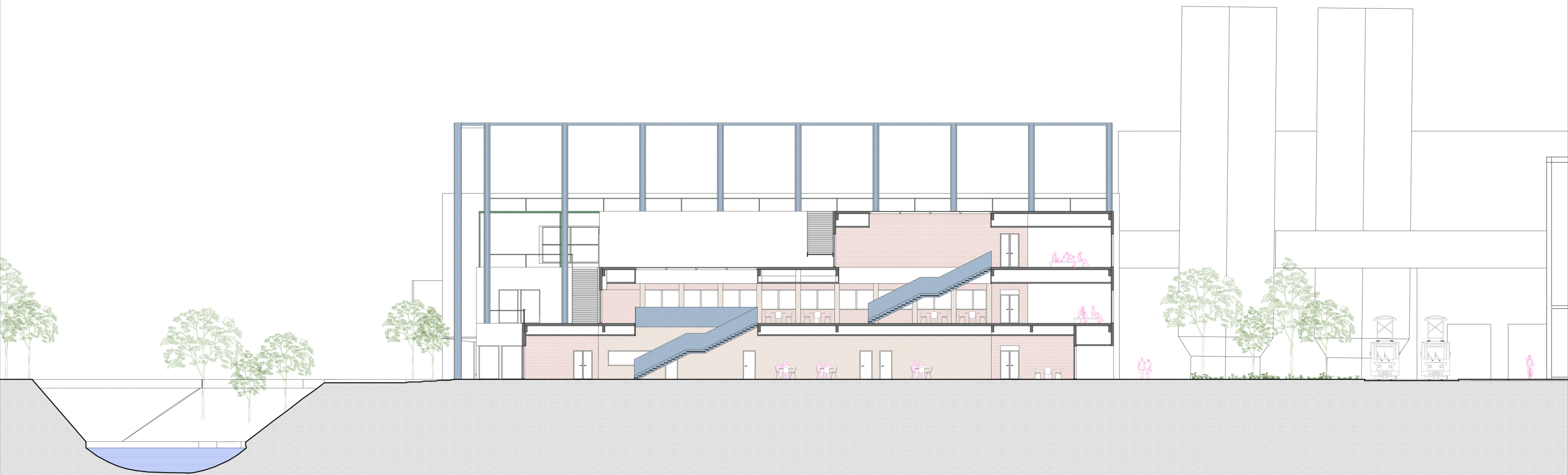
SECTION AA' 1:300



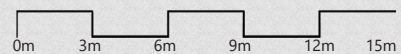


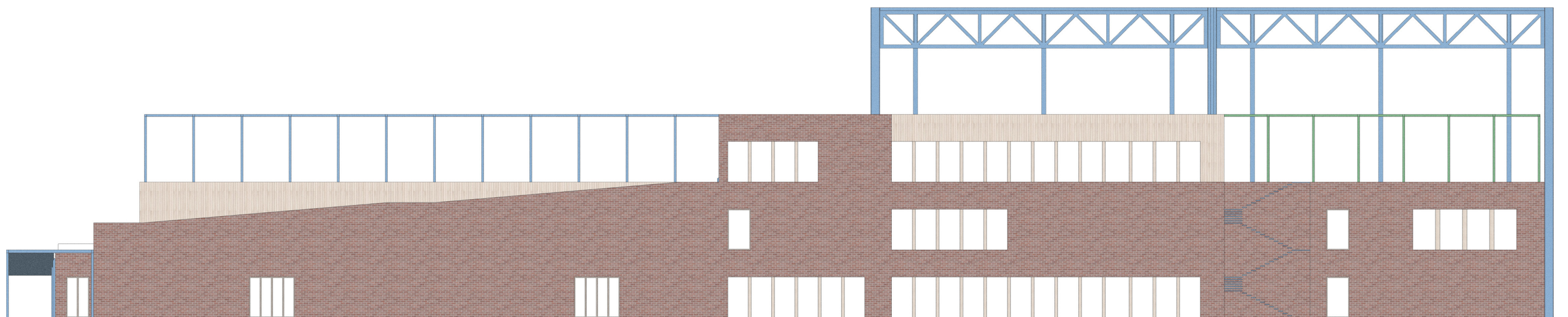
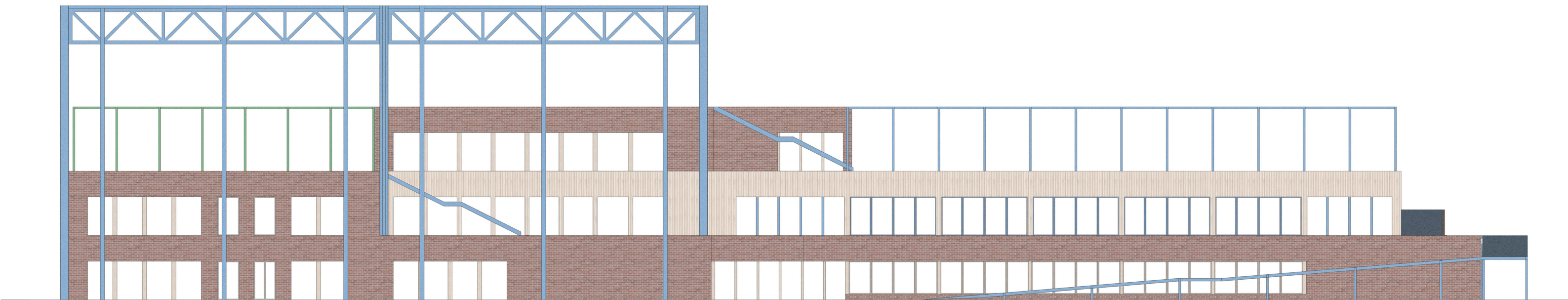
SECTION BB' 1:300

0m 3m 6m 9m 12m 15m

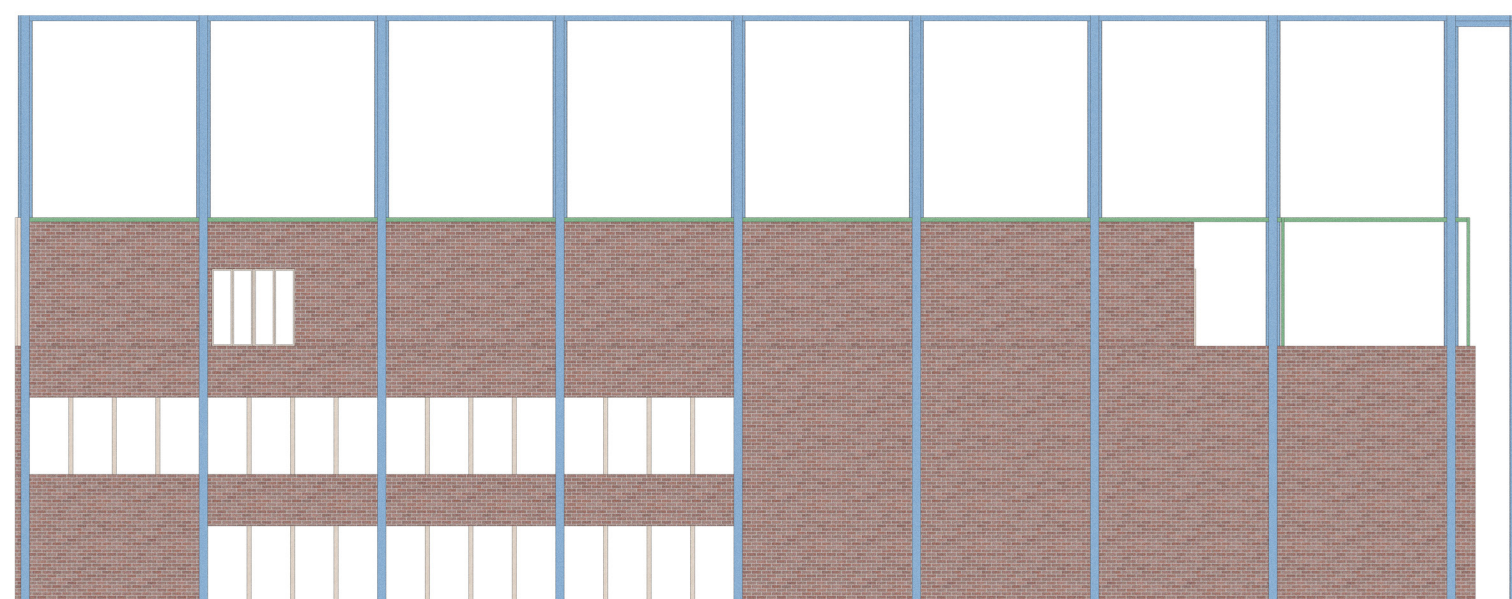
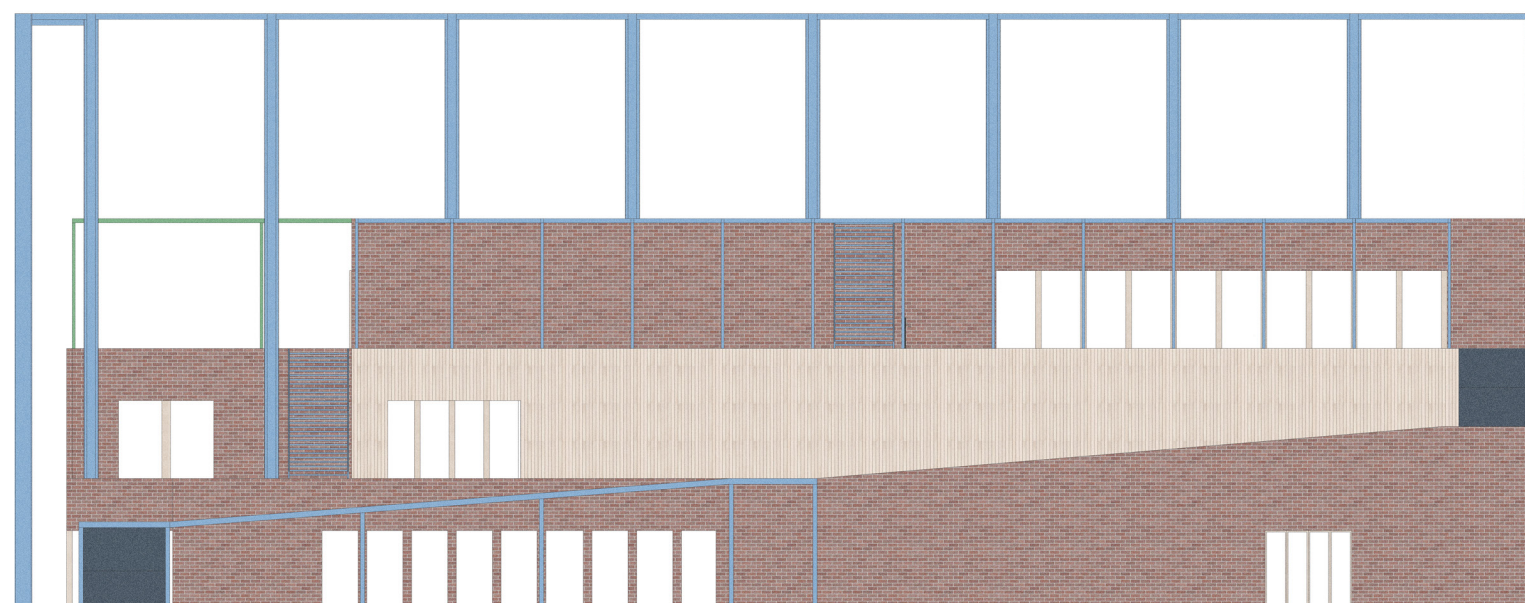


SECOND CC' 1:300

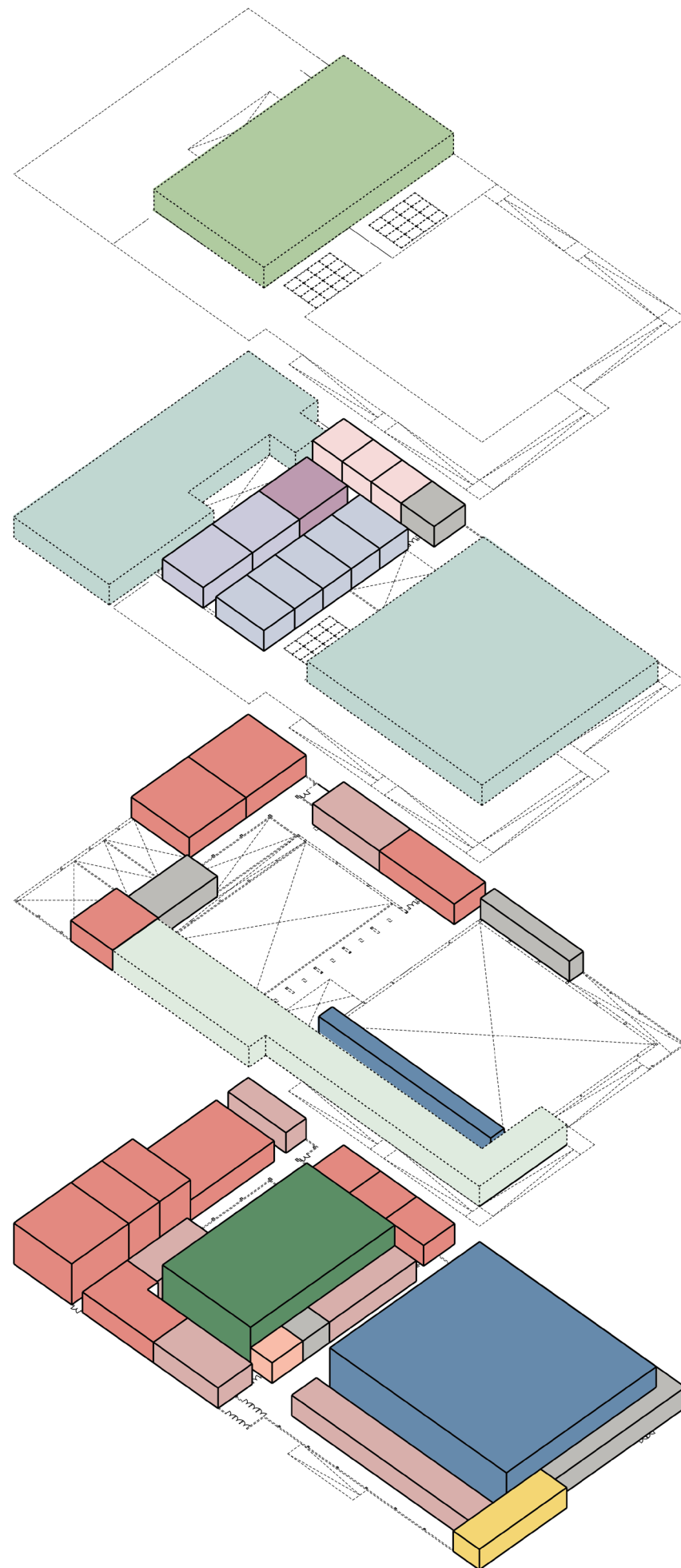




WEST&EAST FACADE

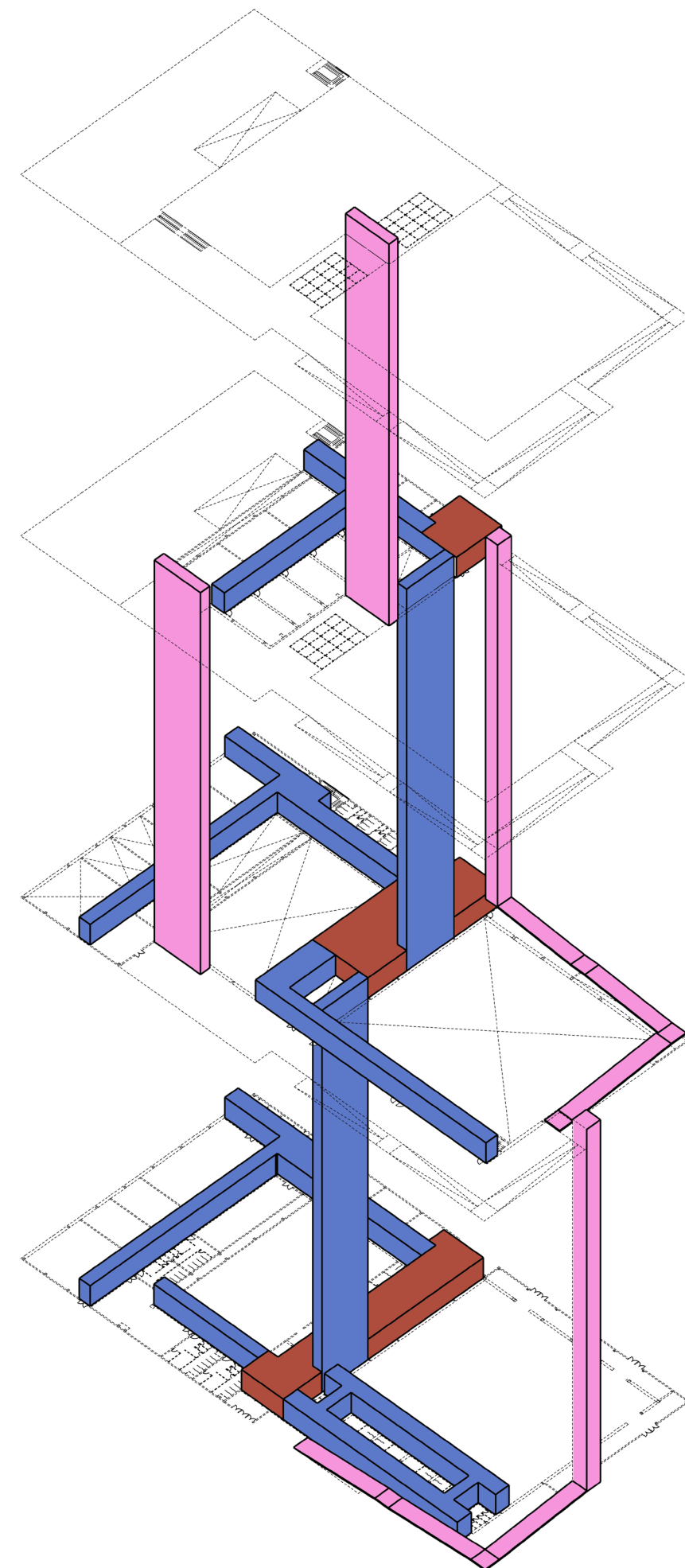


SOUTH&NORTH FACADE

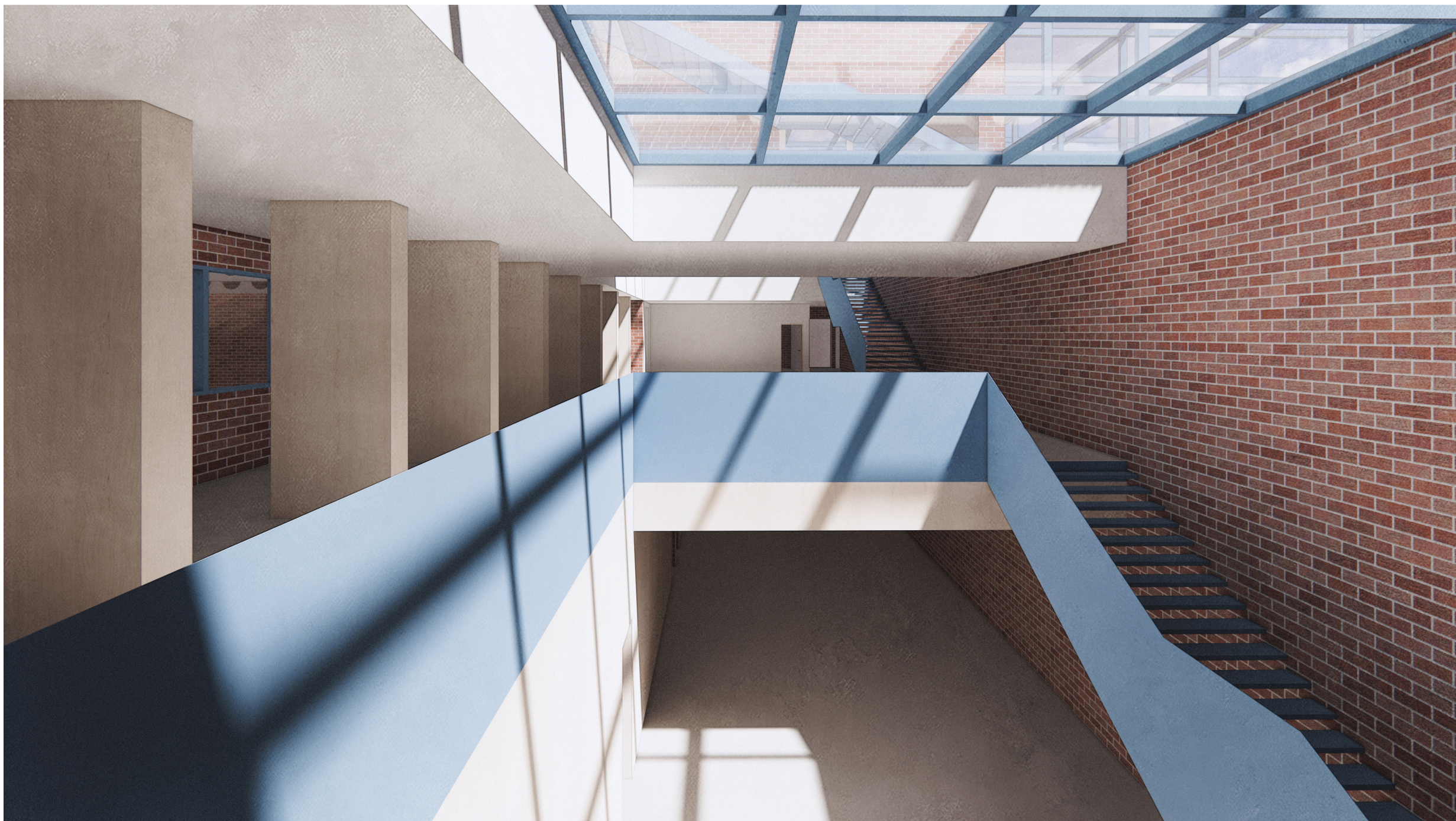
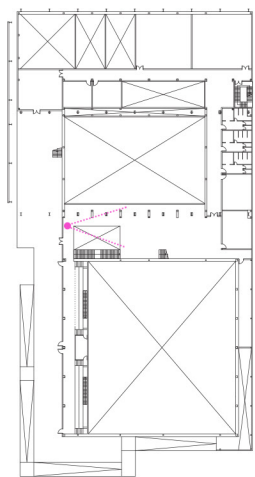


- farm garden
- daycare
- activity room
- common room
- toilet/storage
- children's playground & tennis court
- single function sport room
- mechanical room/storage
- changing room
- community garden
- multifunction sports hall 2
- multifunction sports hall 2
- single function sport
- changing room
- reception
- toilet/storage
- cafe&bar

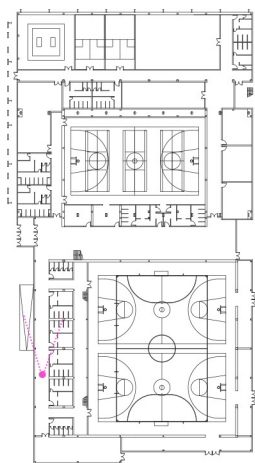
PROGAM & CIRCULATION



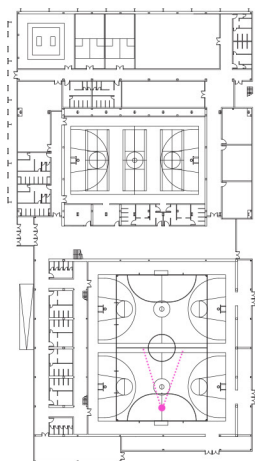
- 'square': lounge area
- 'street': interior circulation
- exterior circulation



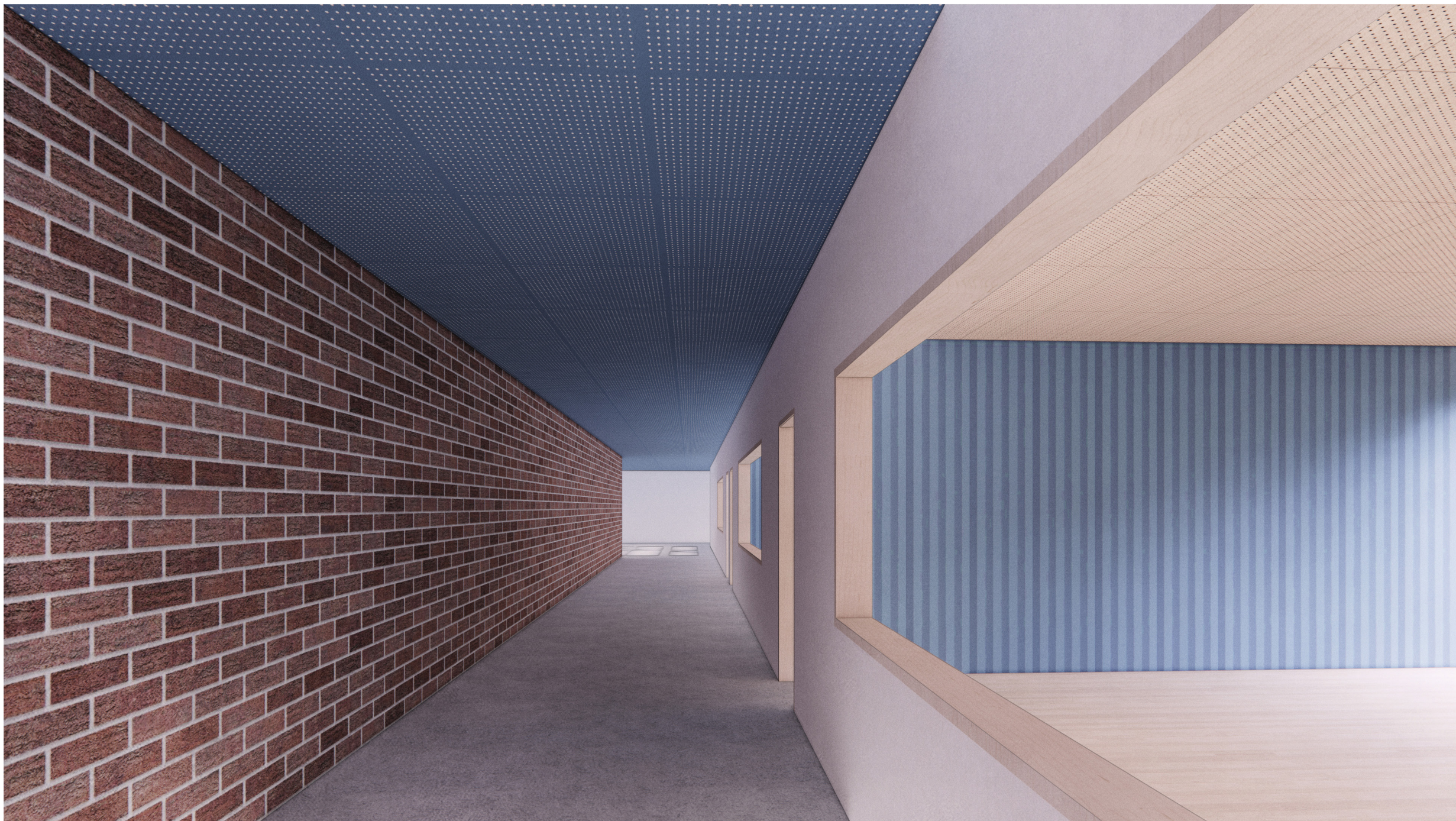
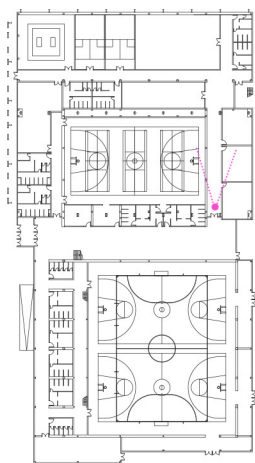
'SQUARE: ENTRANCE HALL



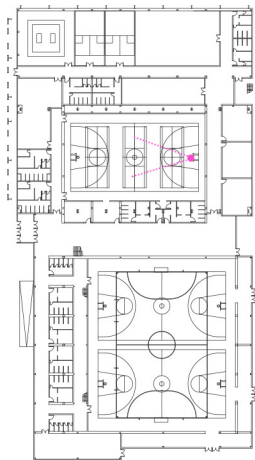
'STREET': CORRIDOR 1



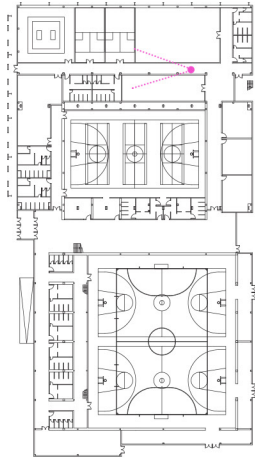
THE BLUE SPORTS HALL



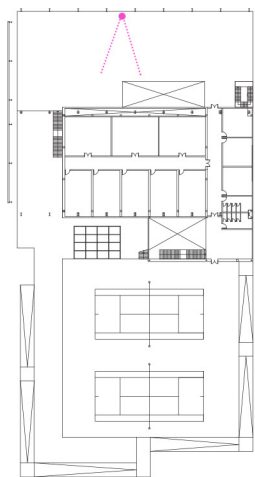
'STREET': CORRIDOR 2



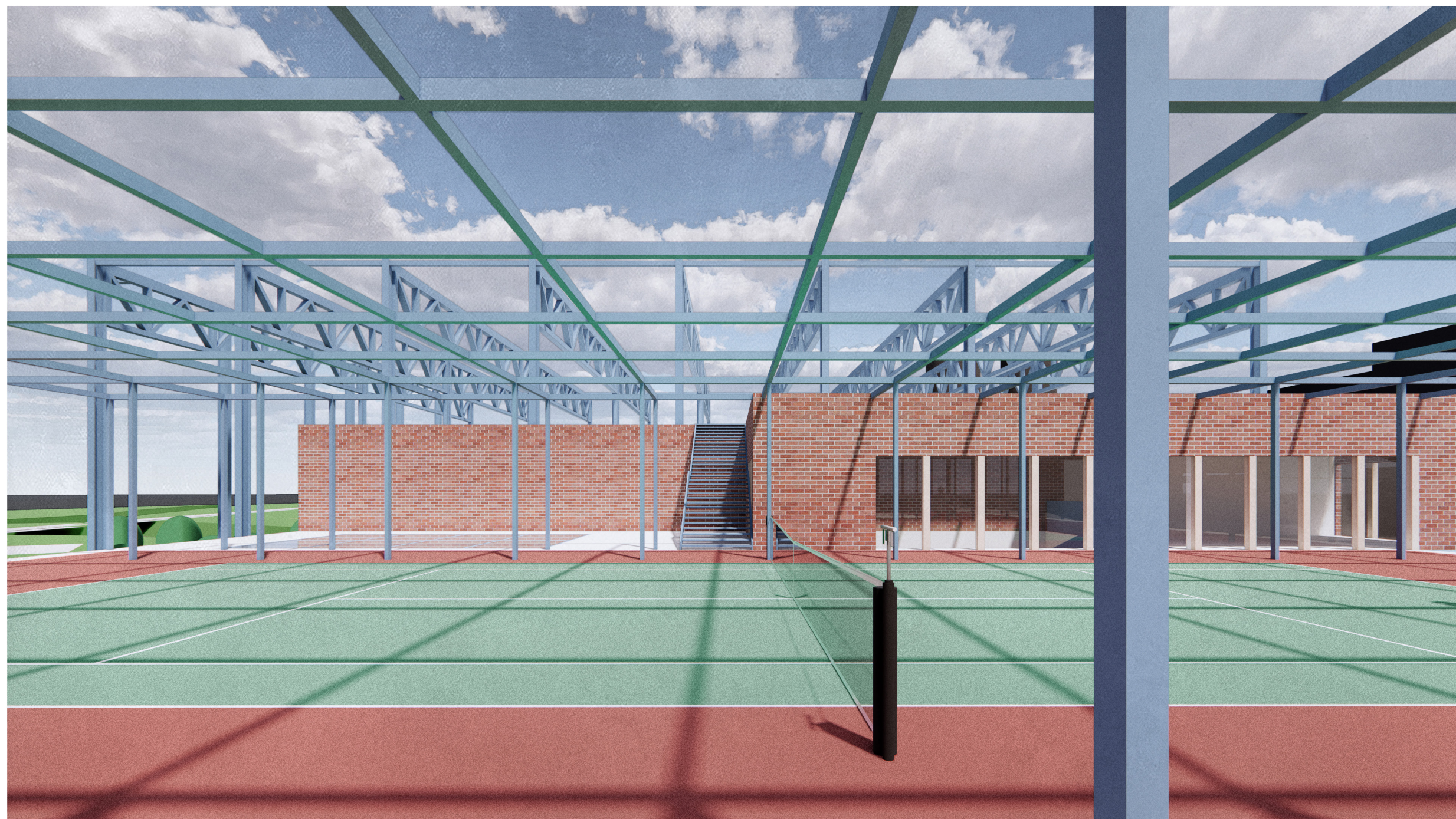
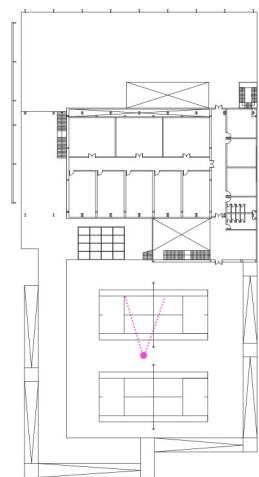
THE GREEN SPORTS HALL



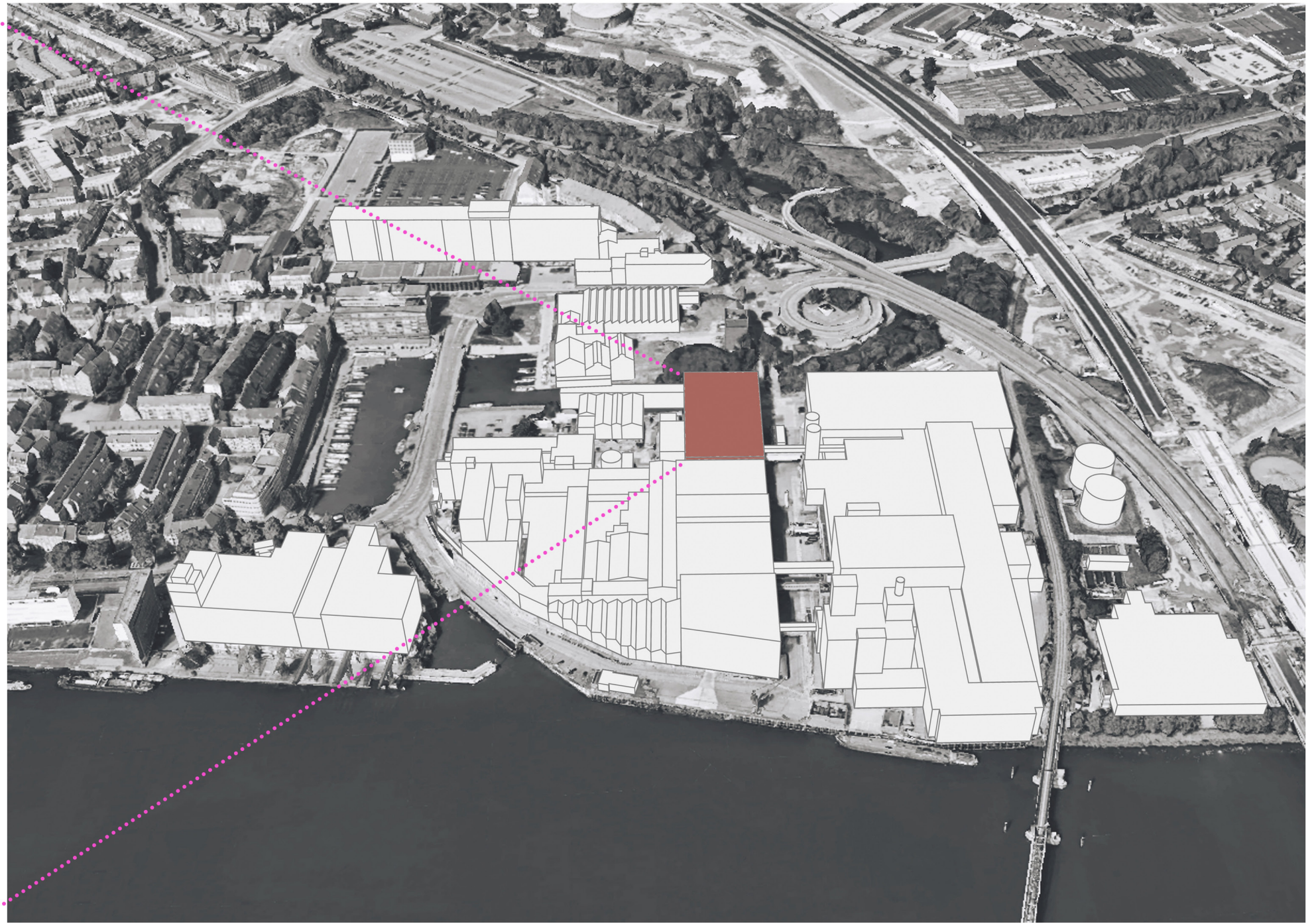
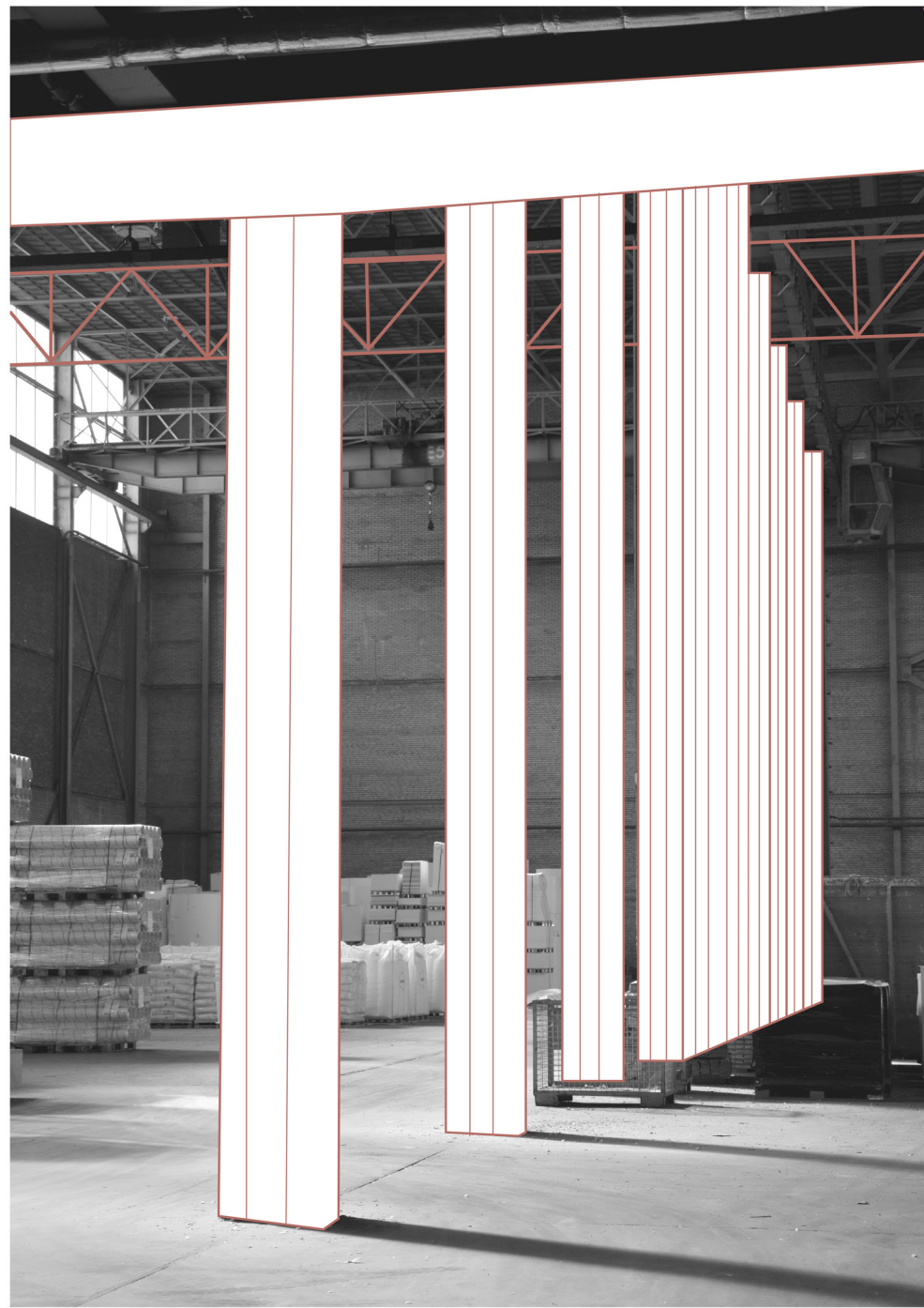
'STREET': CORRIDOR 3



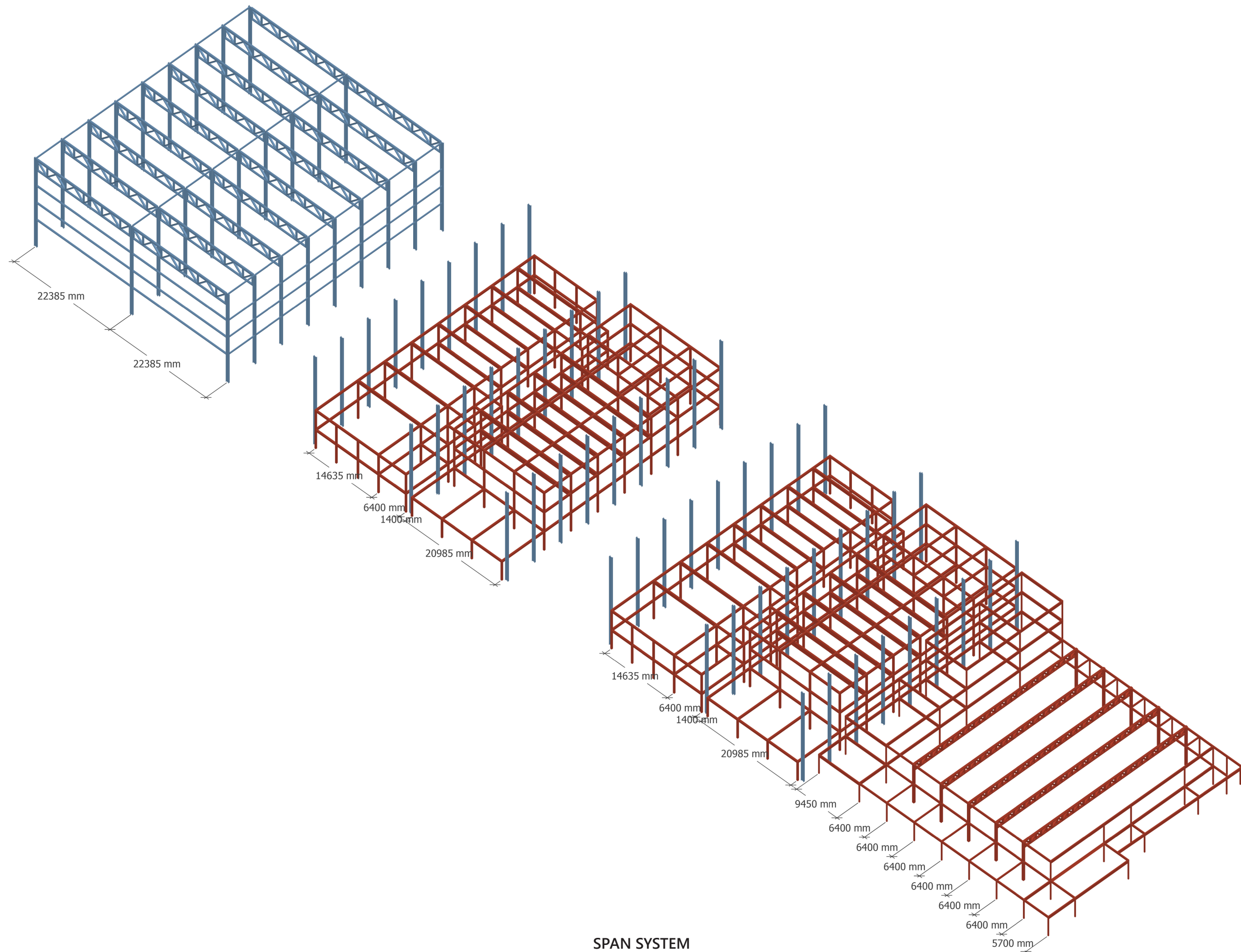
CHILDREN'S PLAYGROUND



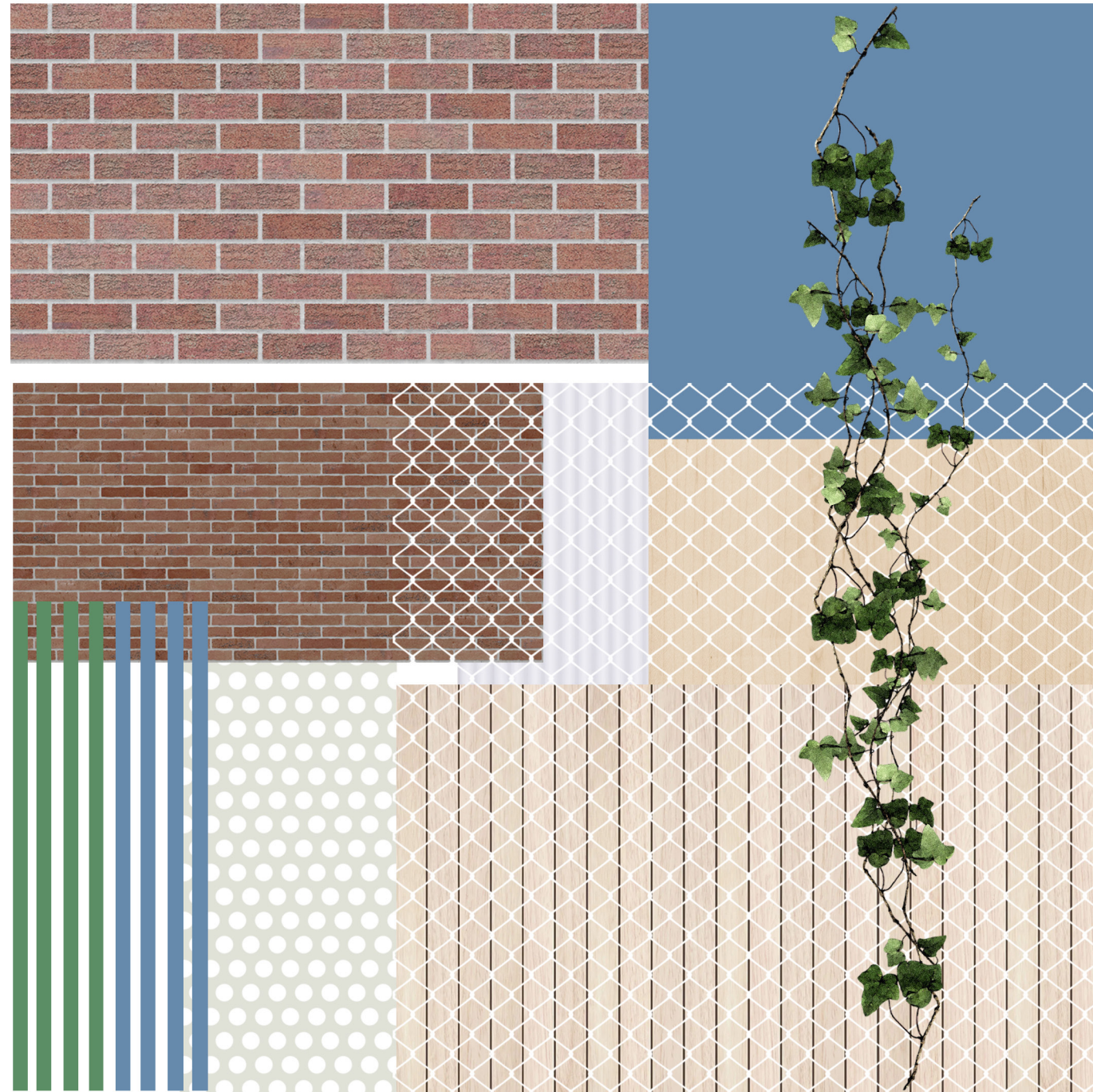
OPEN TENNIS COURT



GLEANNING OF EXISTING BUILDING



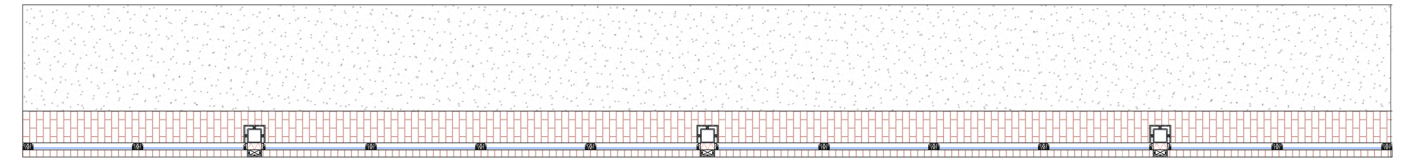
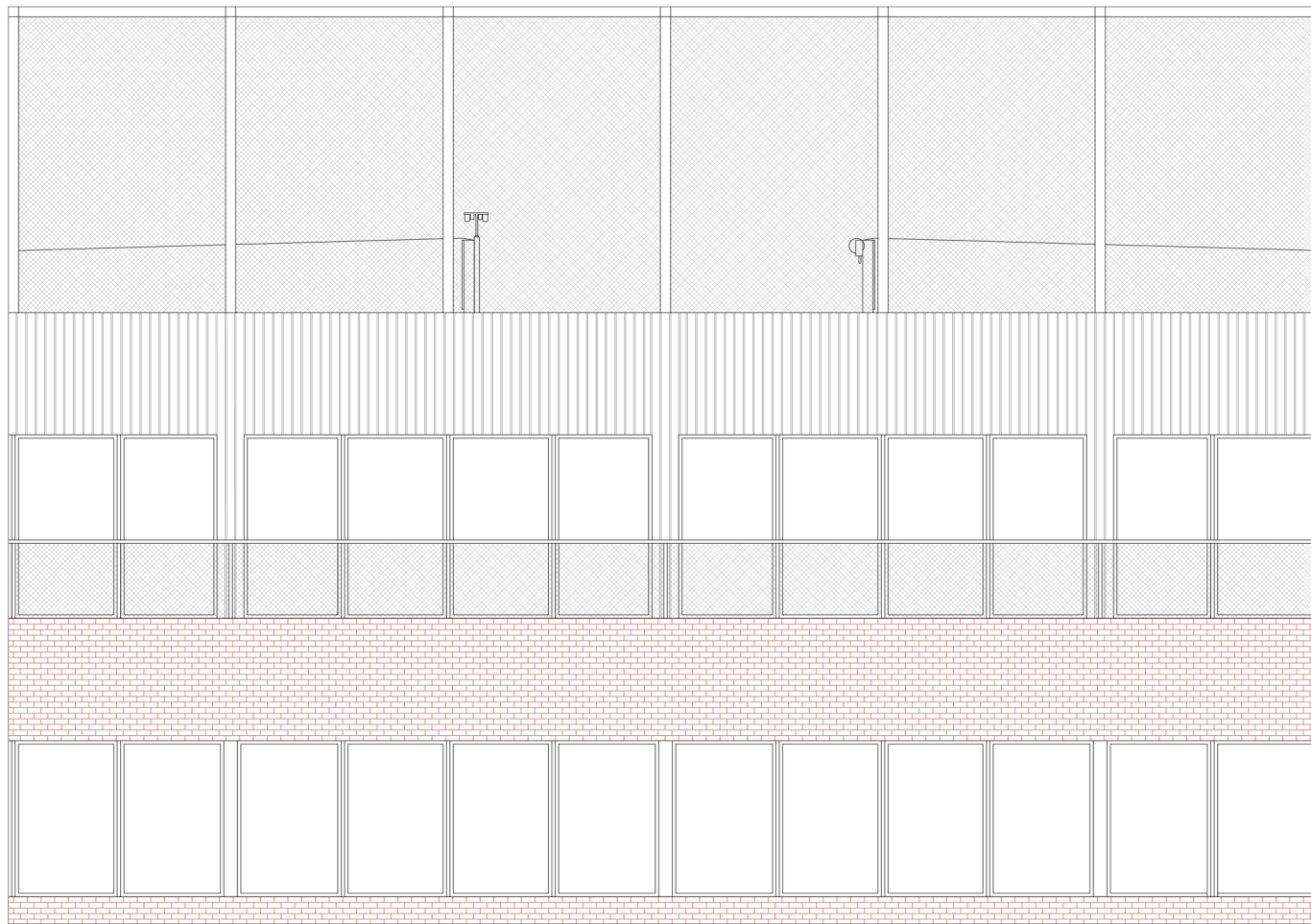
SPAN SYSTEM

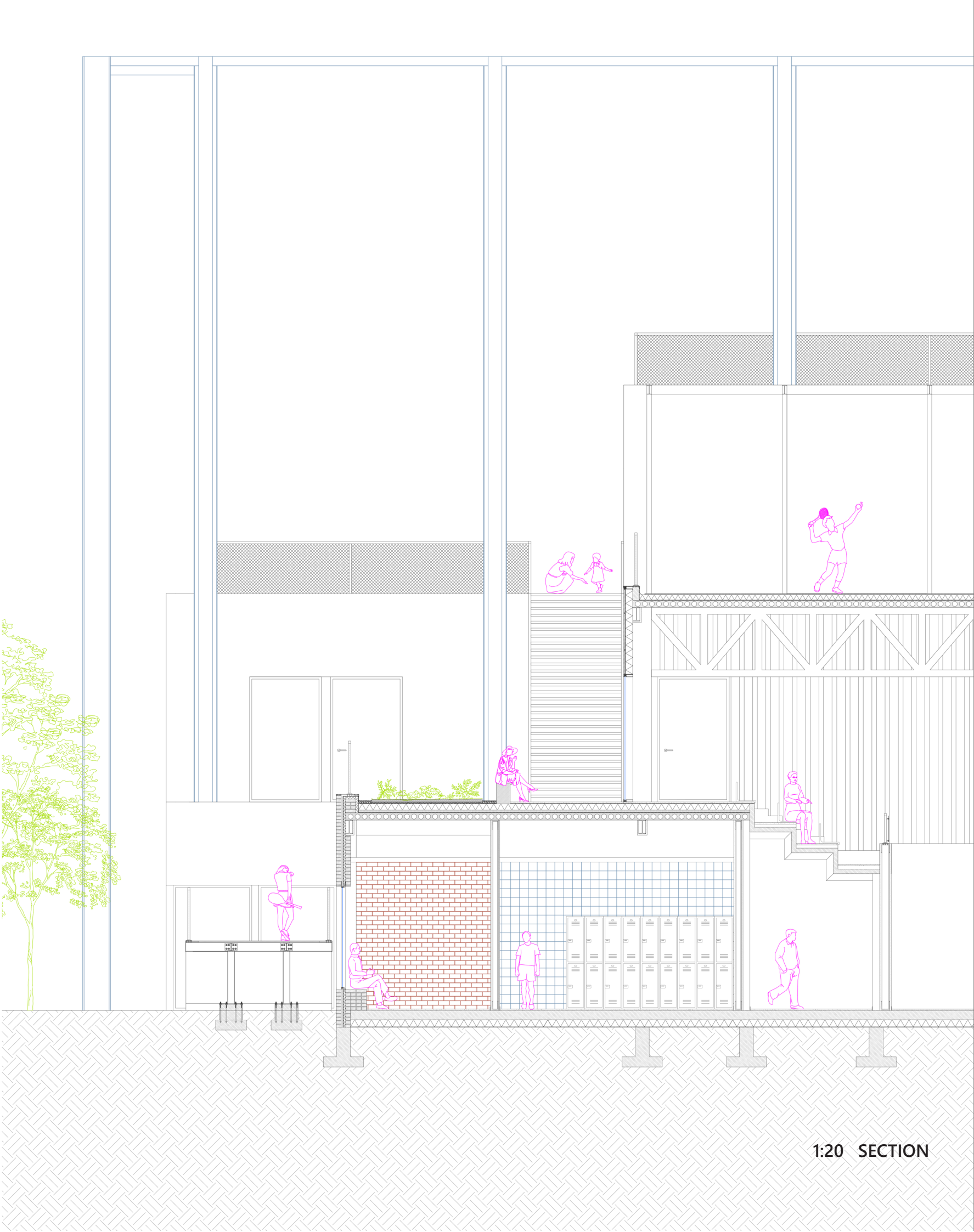


MATERIAL CATALOGUE

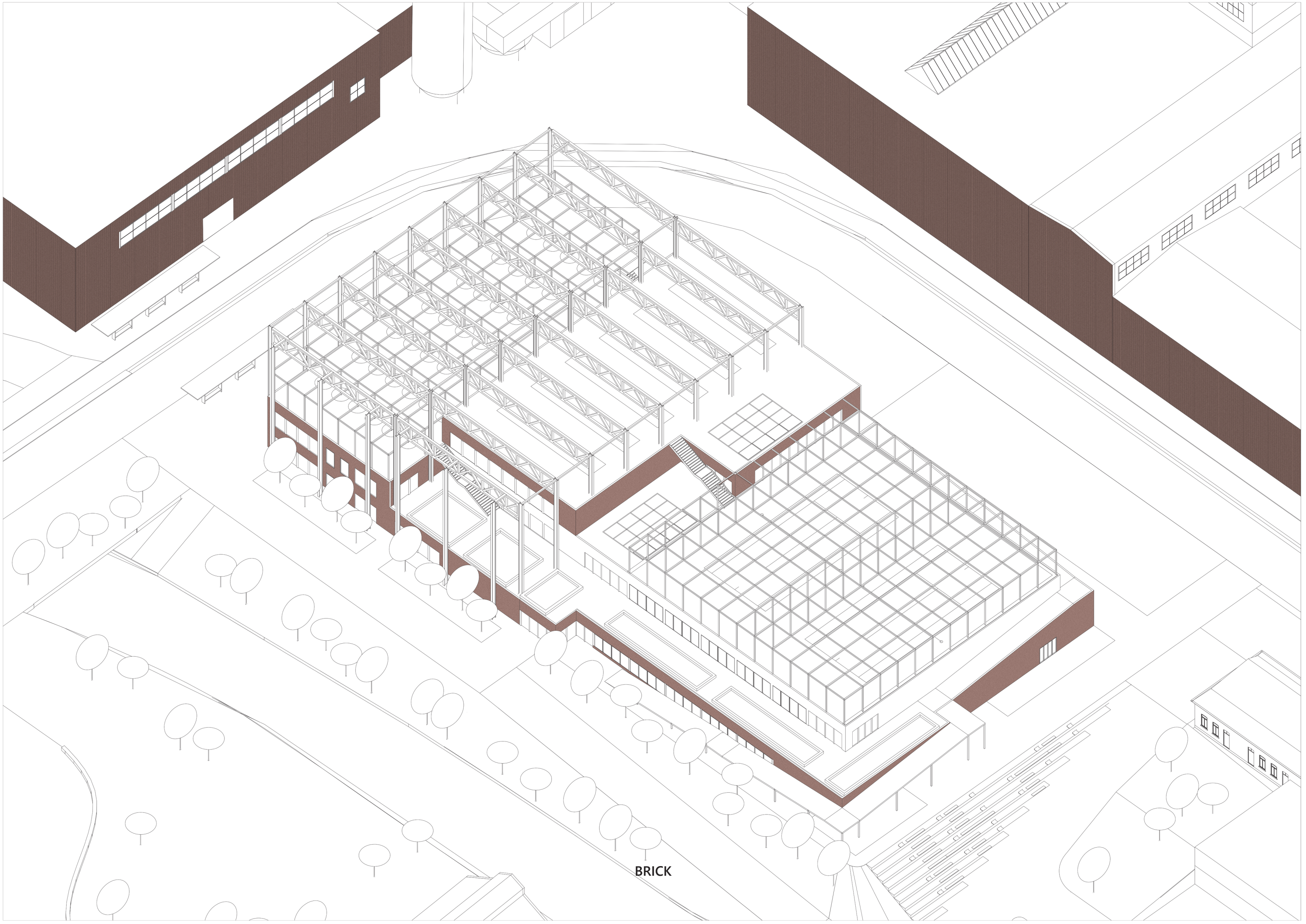


SELECTED FACADE

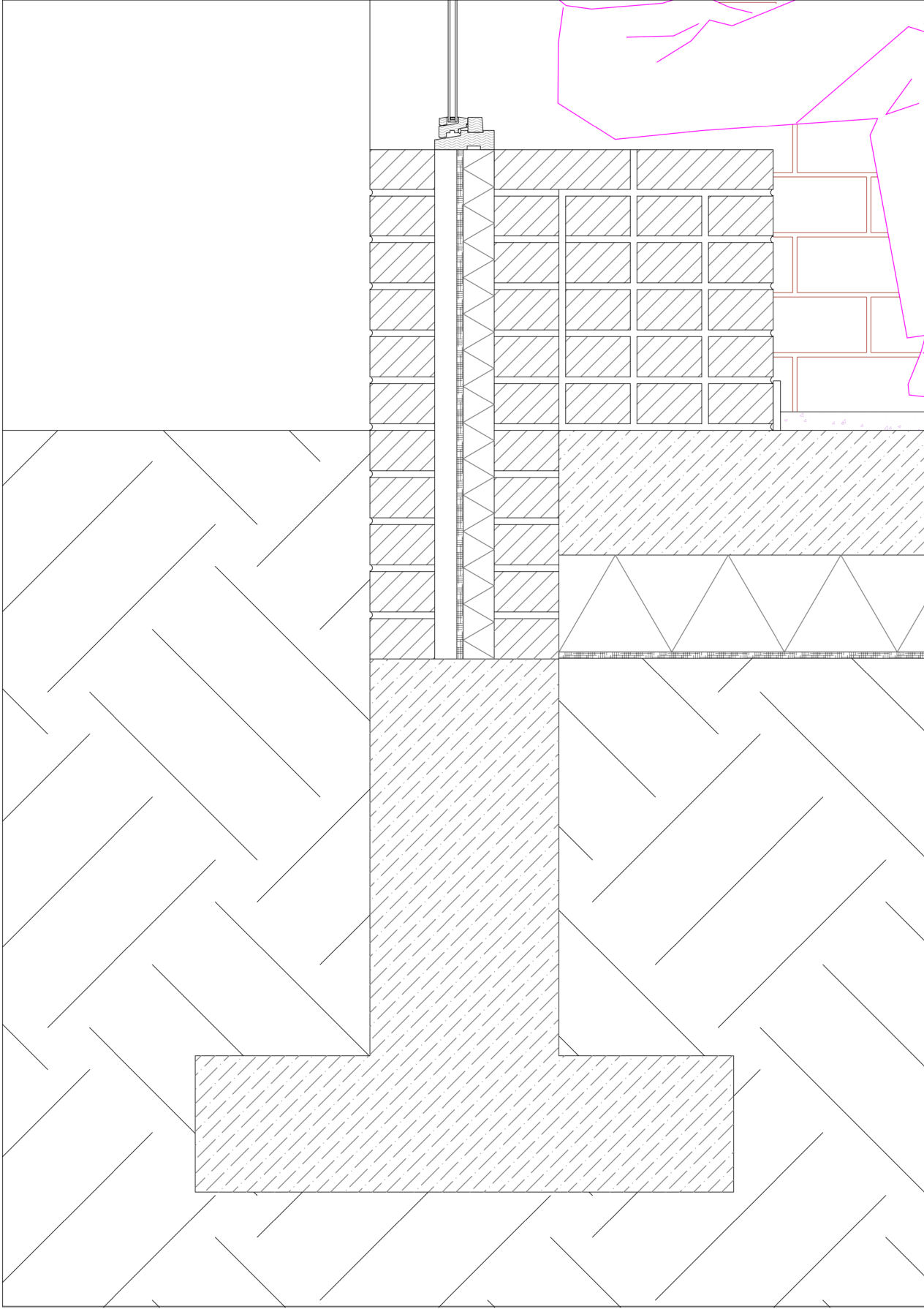
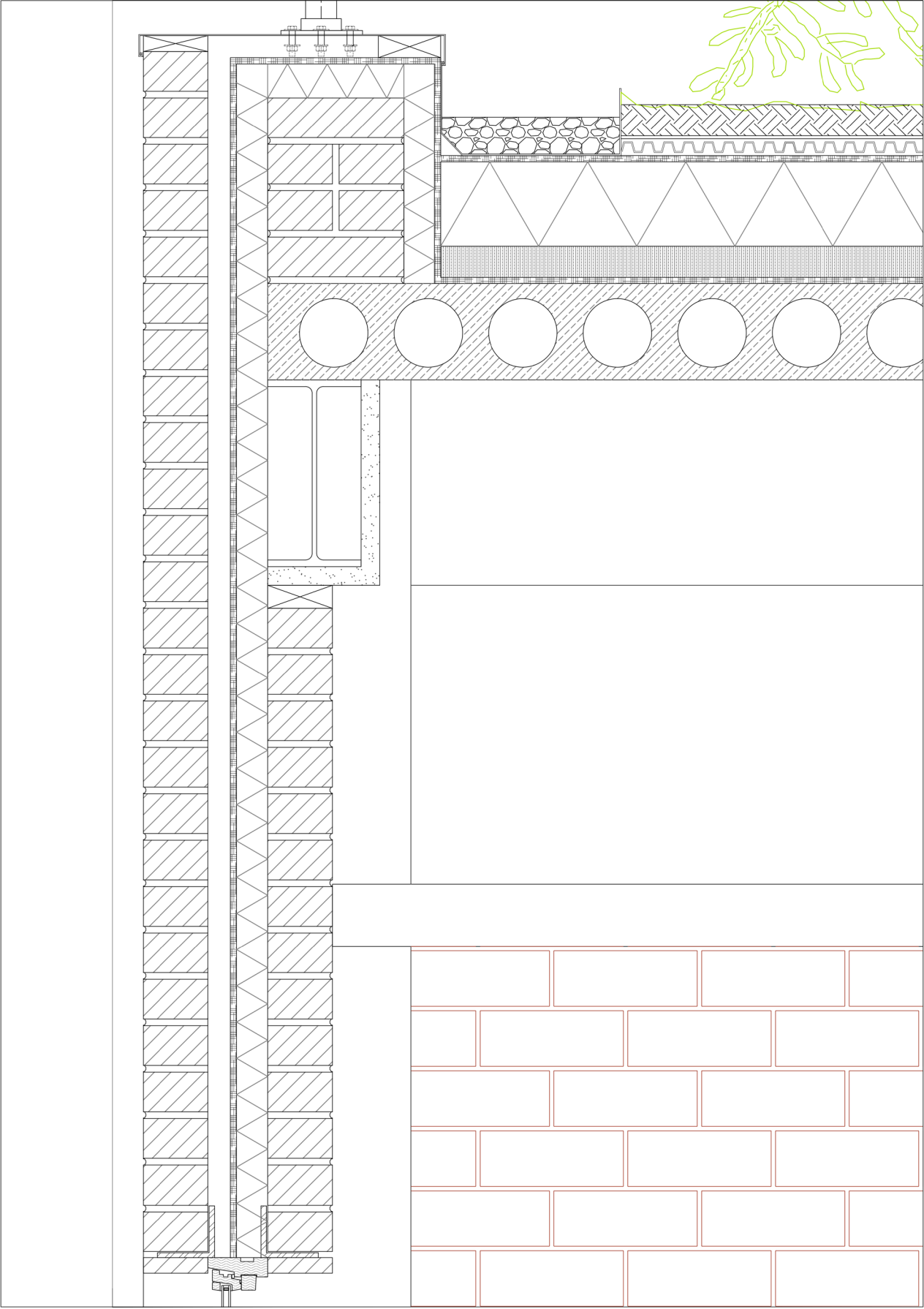




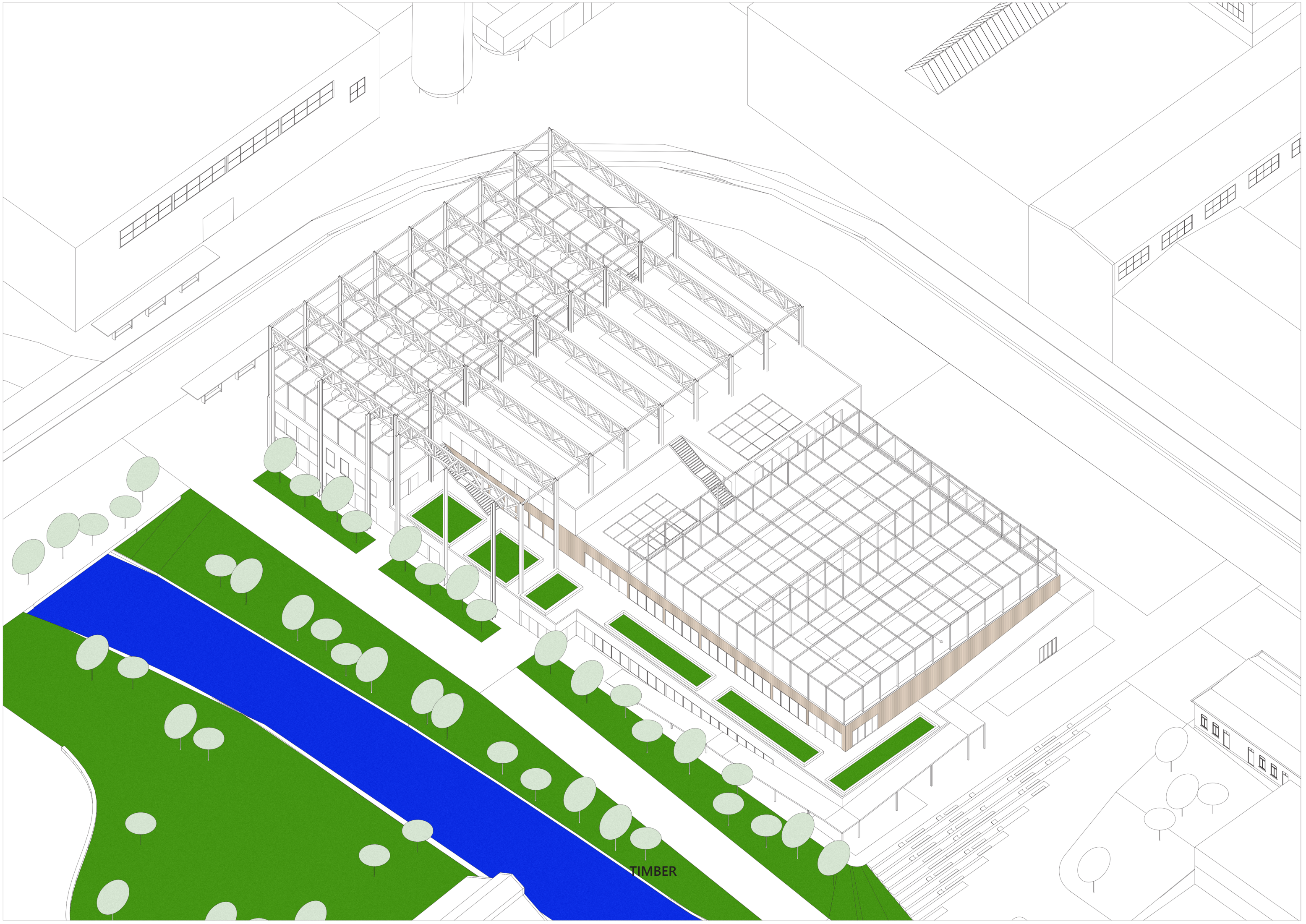
1:20 SECTION



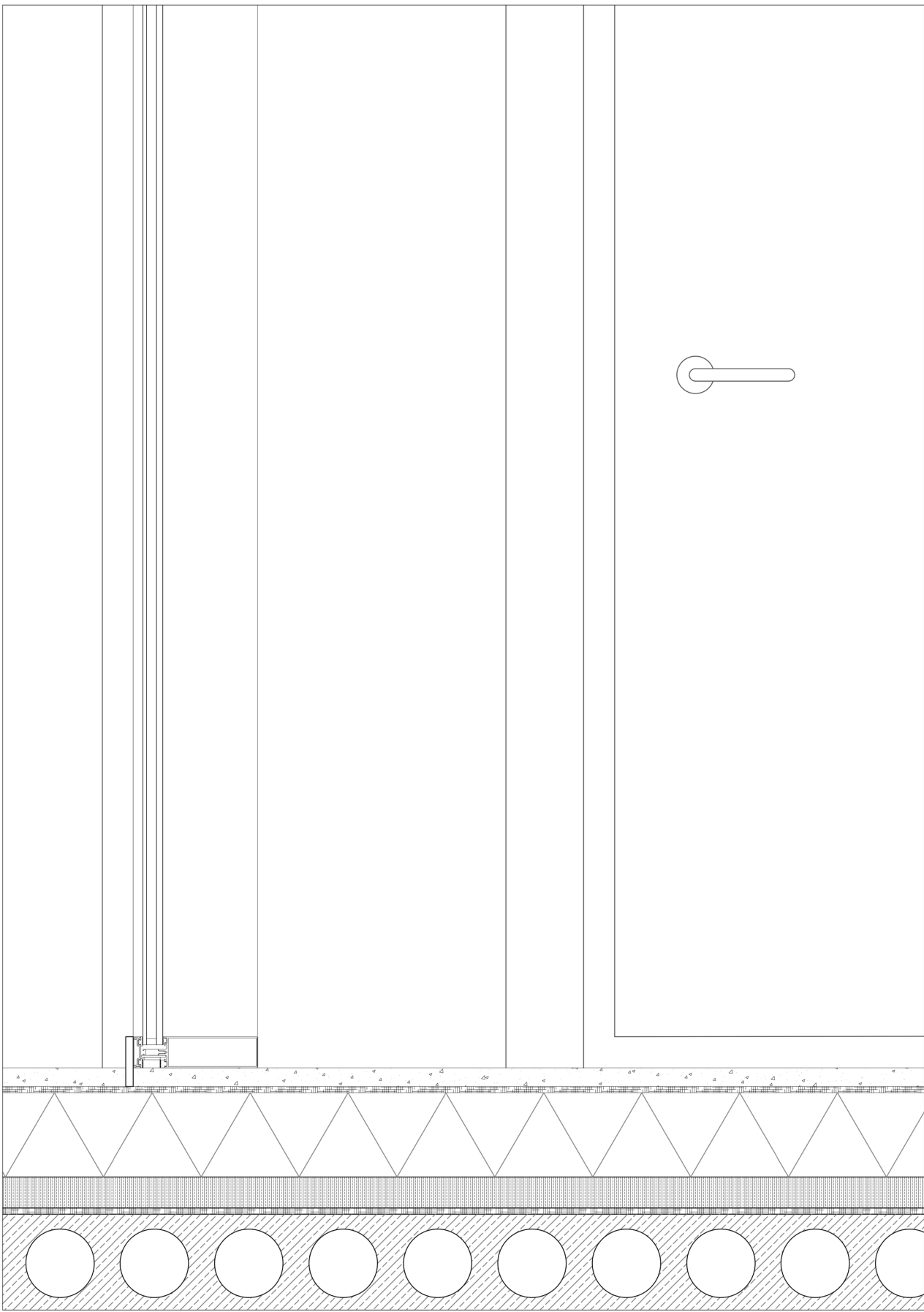
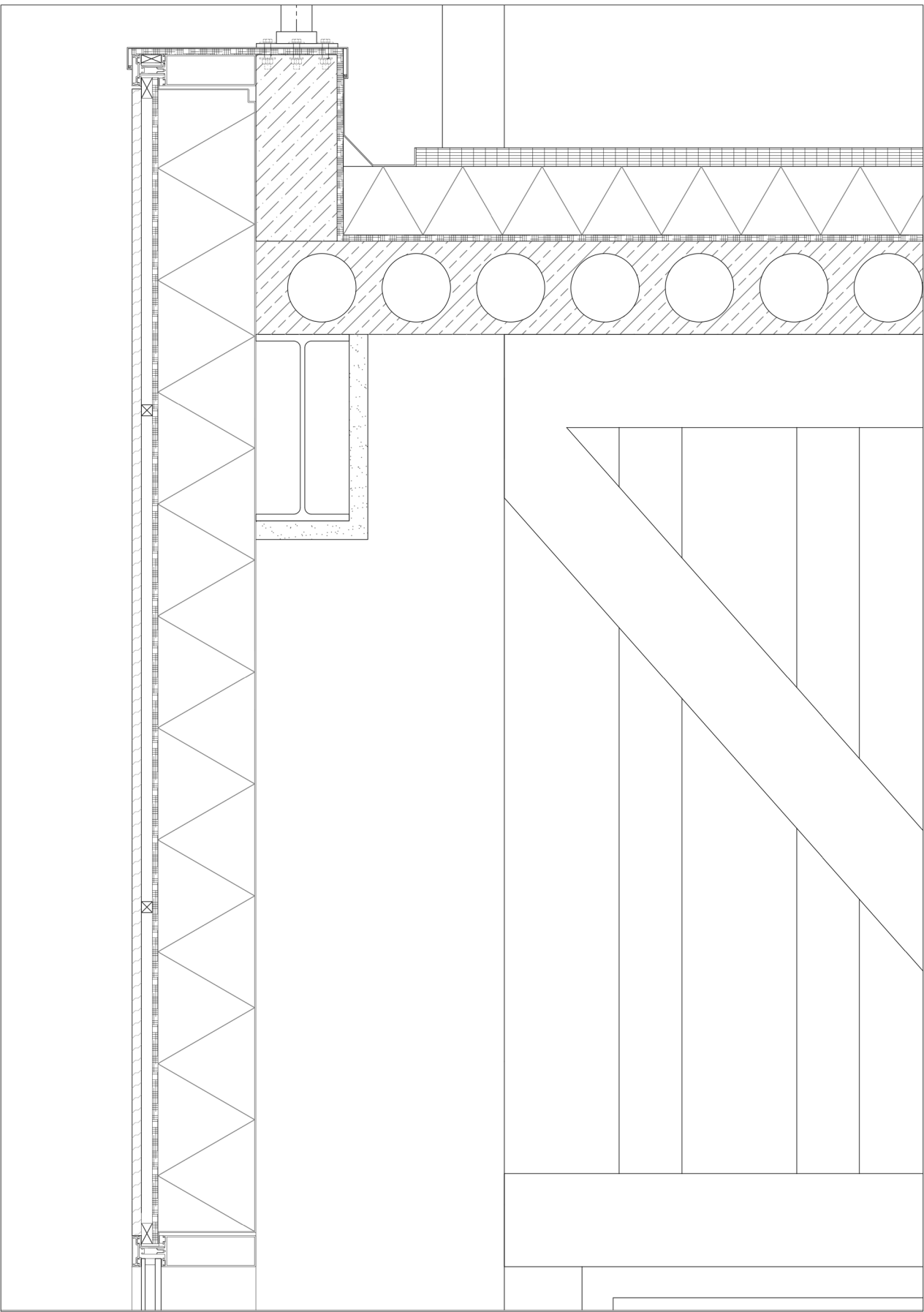
BRICK



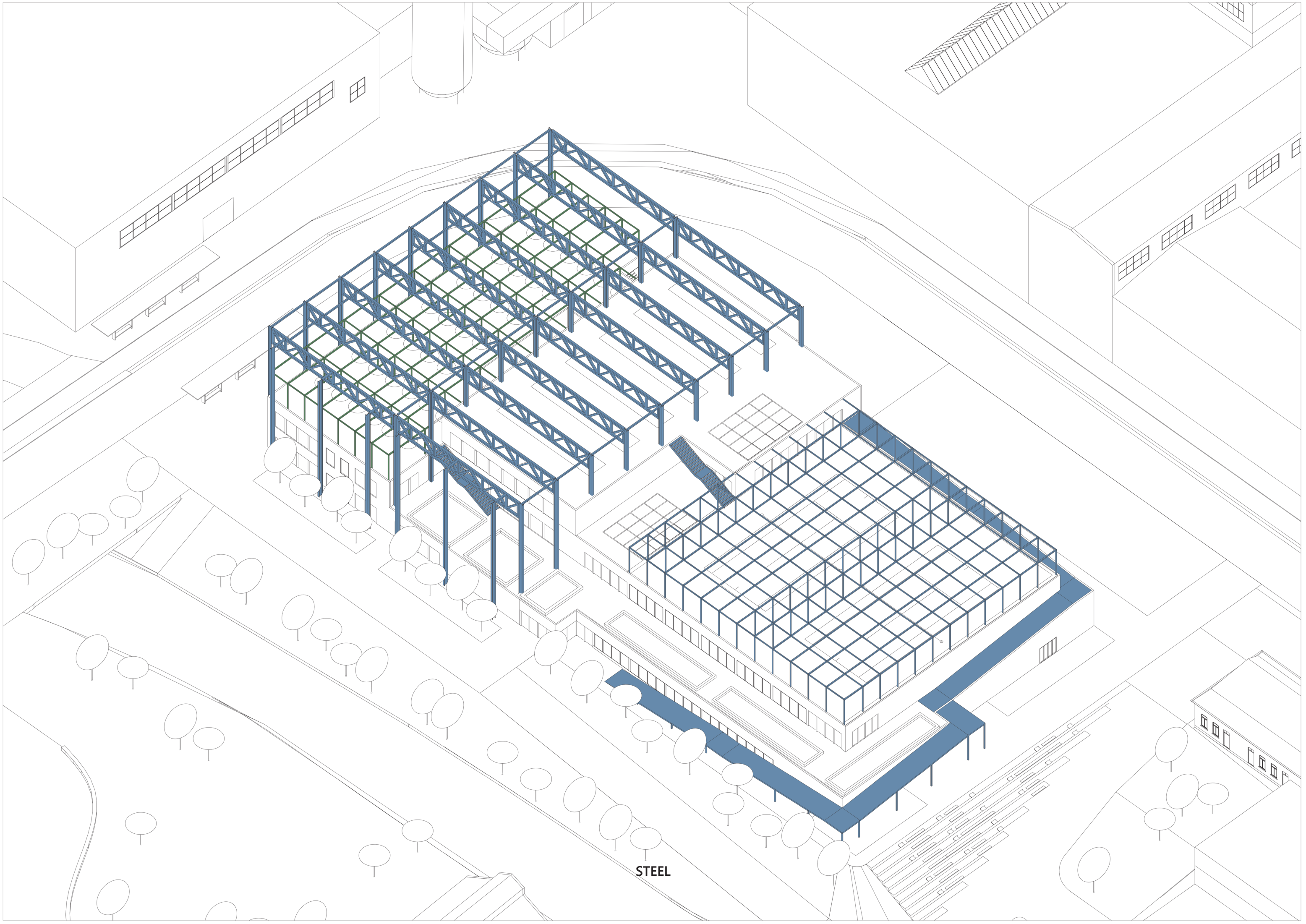
1:5 ROOF/FOUNDATION DETIALS



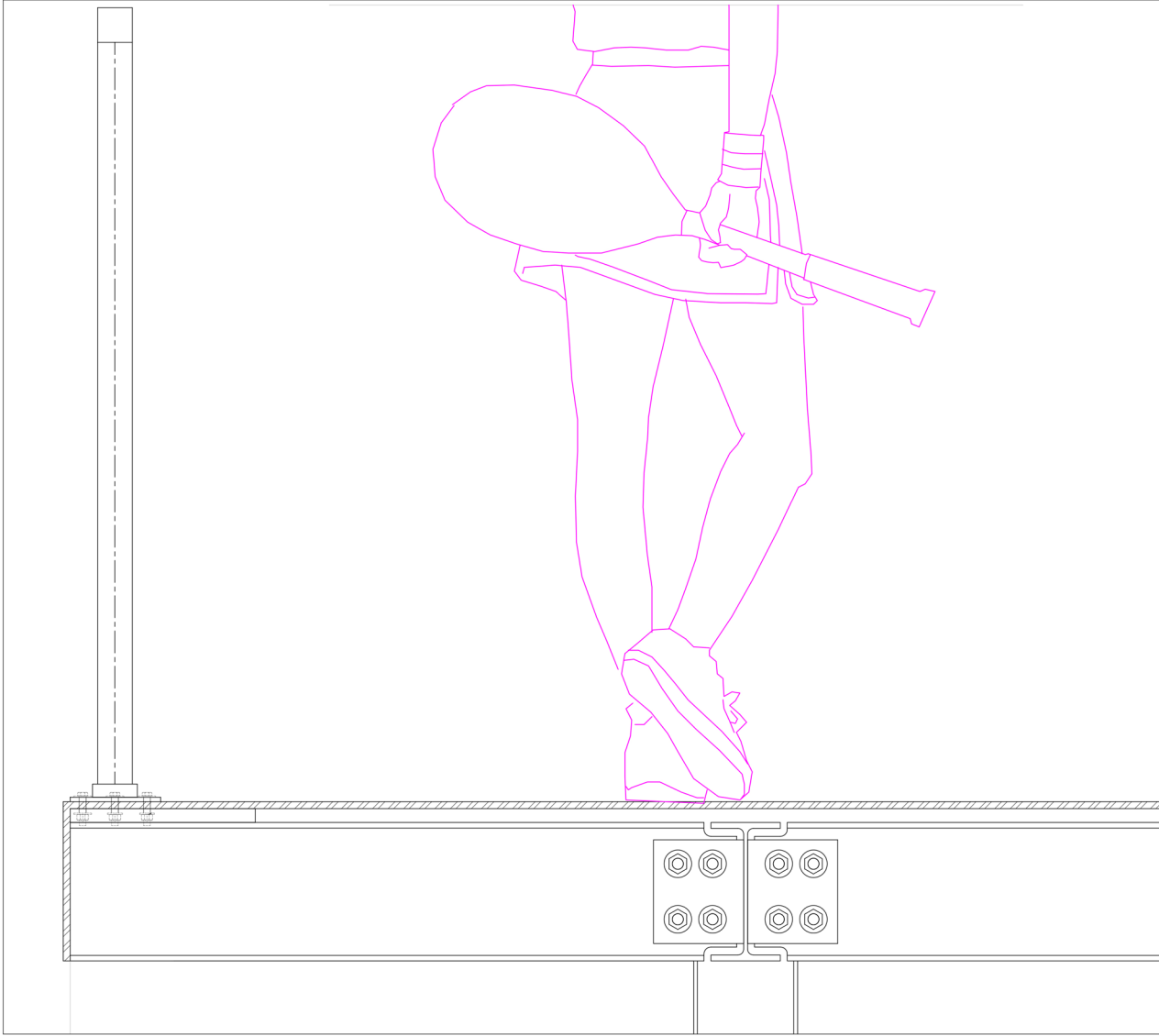
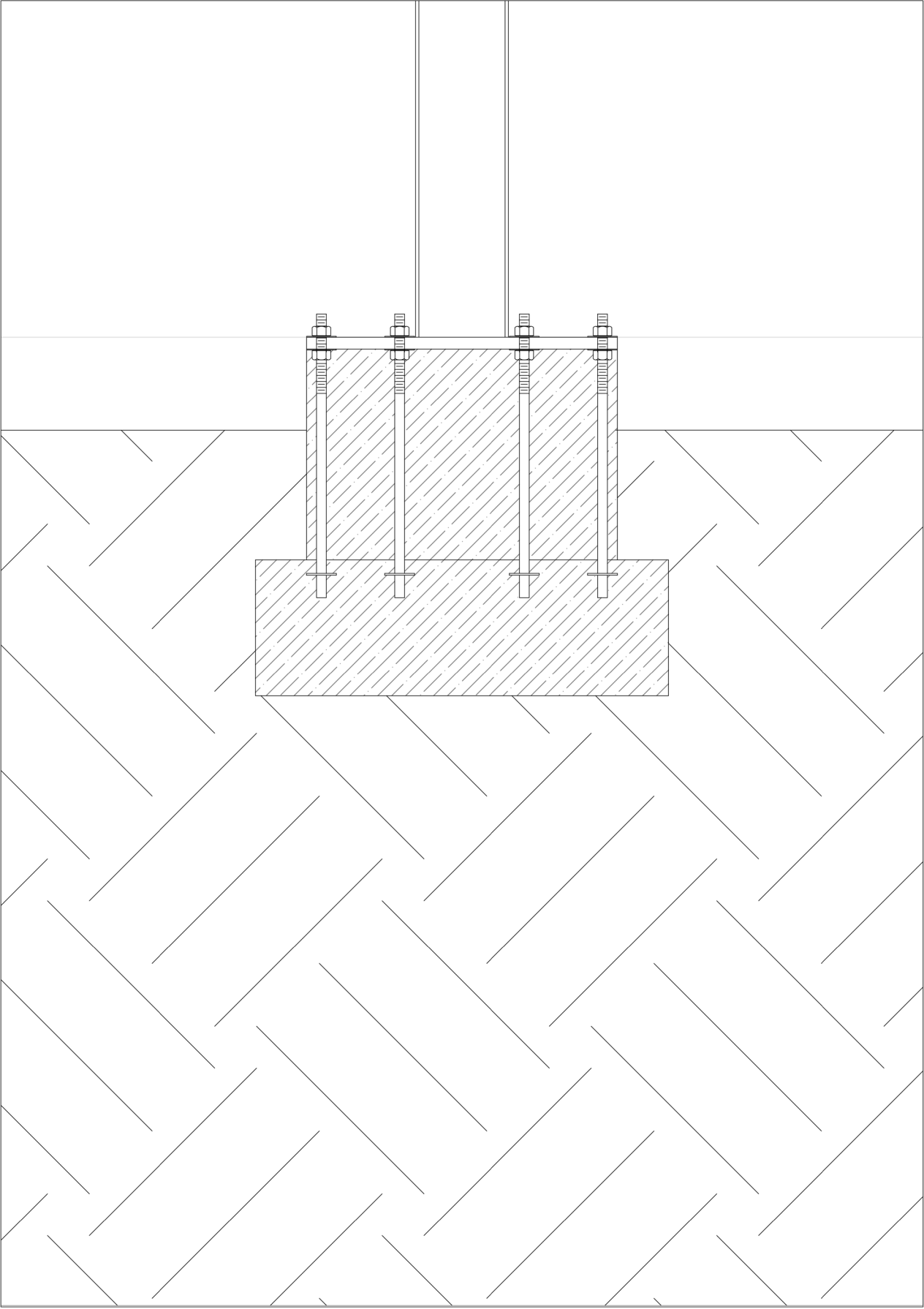
TIMBER



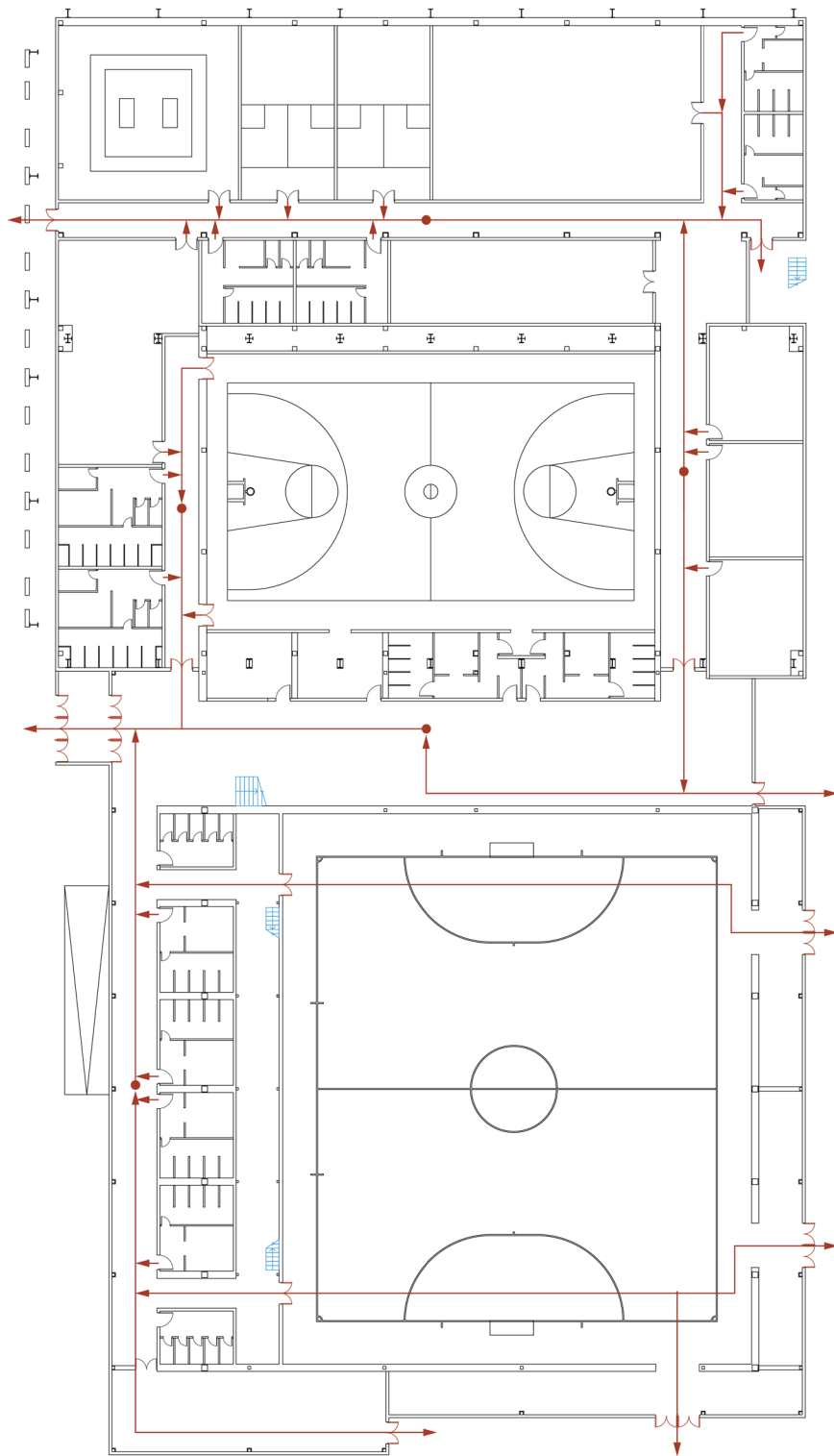
1:5 ROOF/FLOOR DETAILS



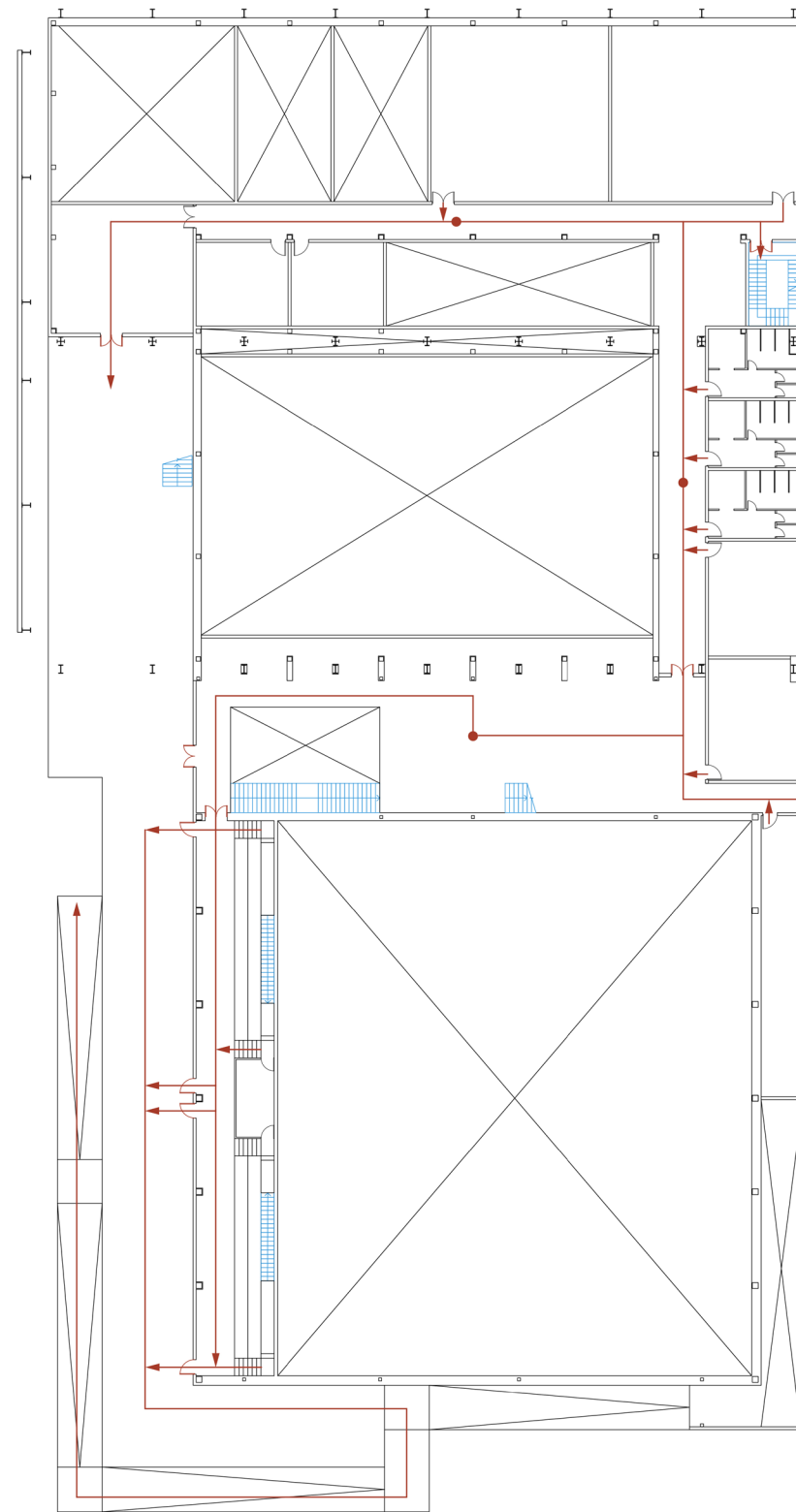
STEEL



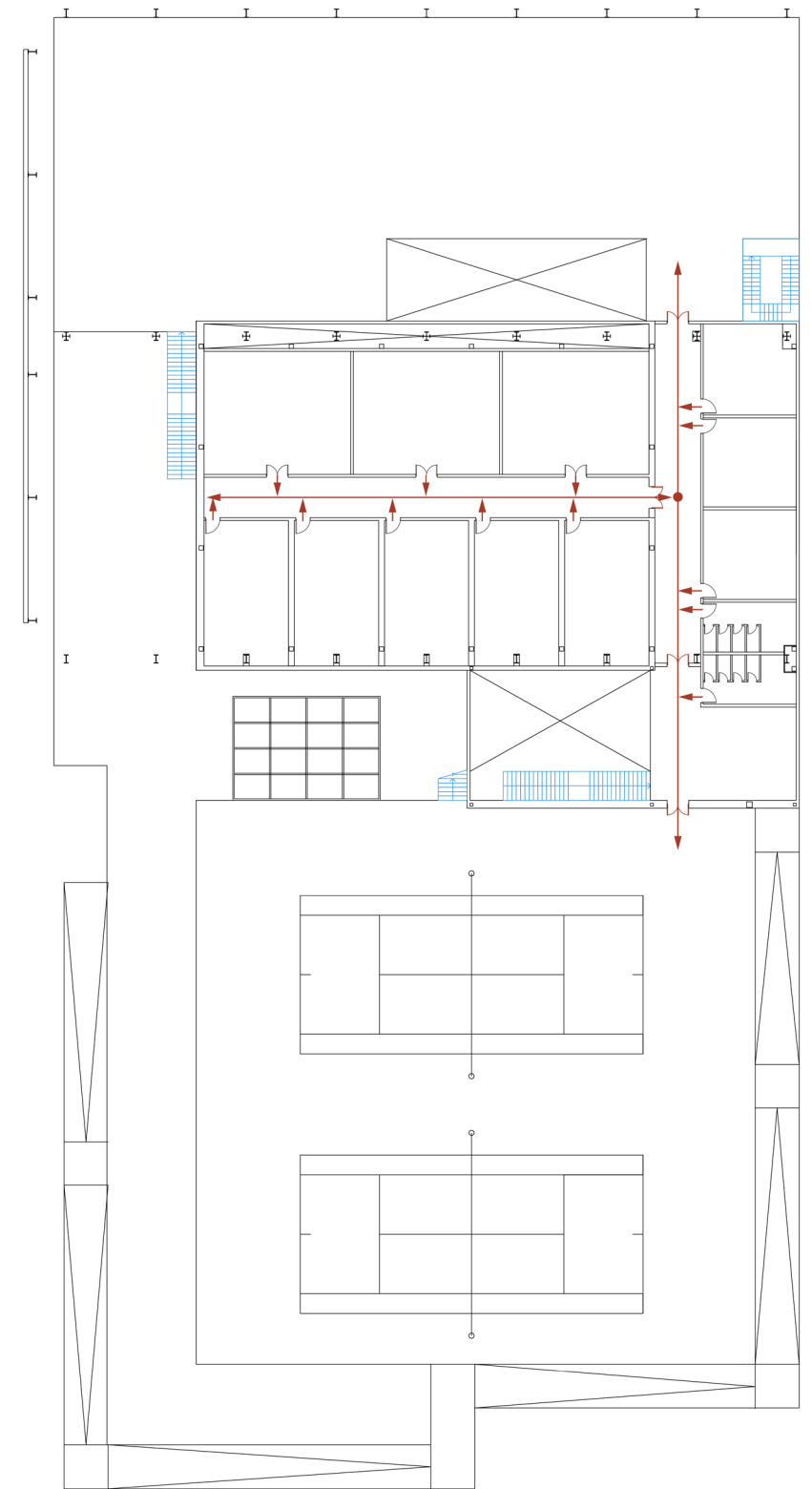
1:5 DETAIL DRAWING OF THE RAMP



ground floor

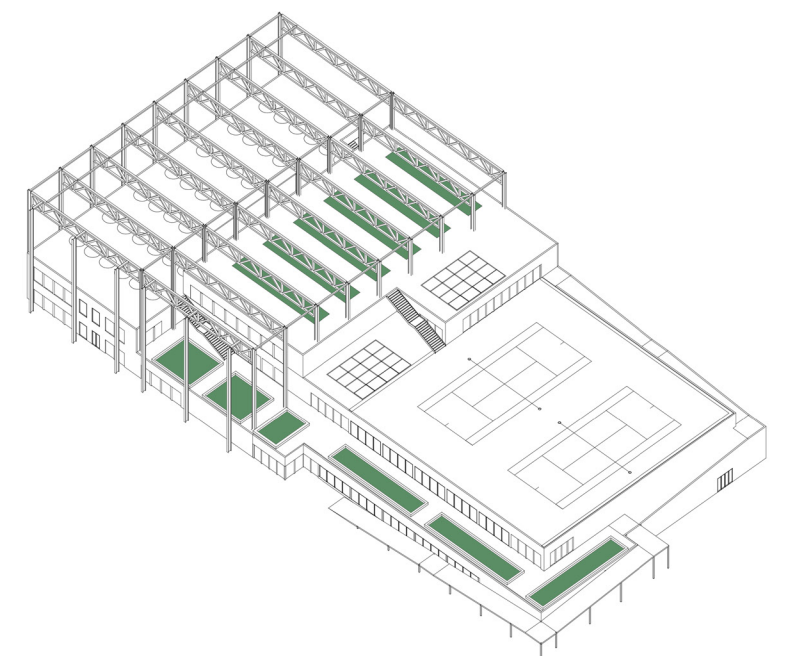
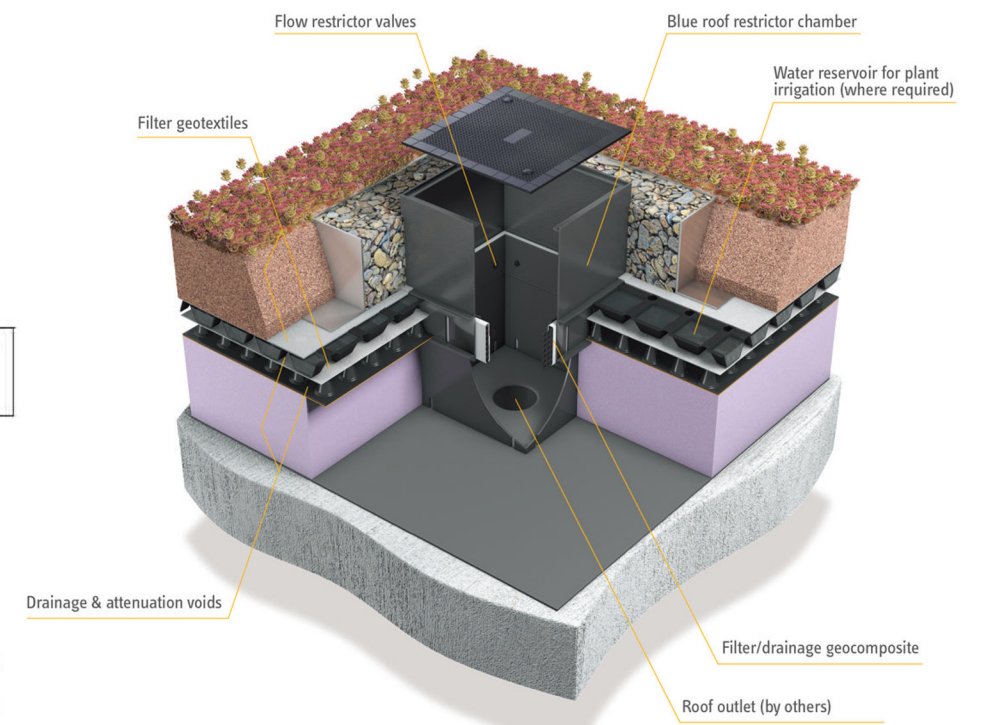
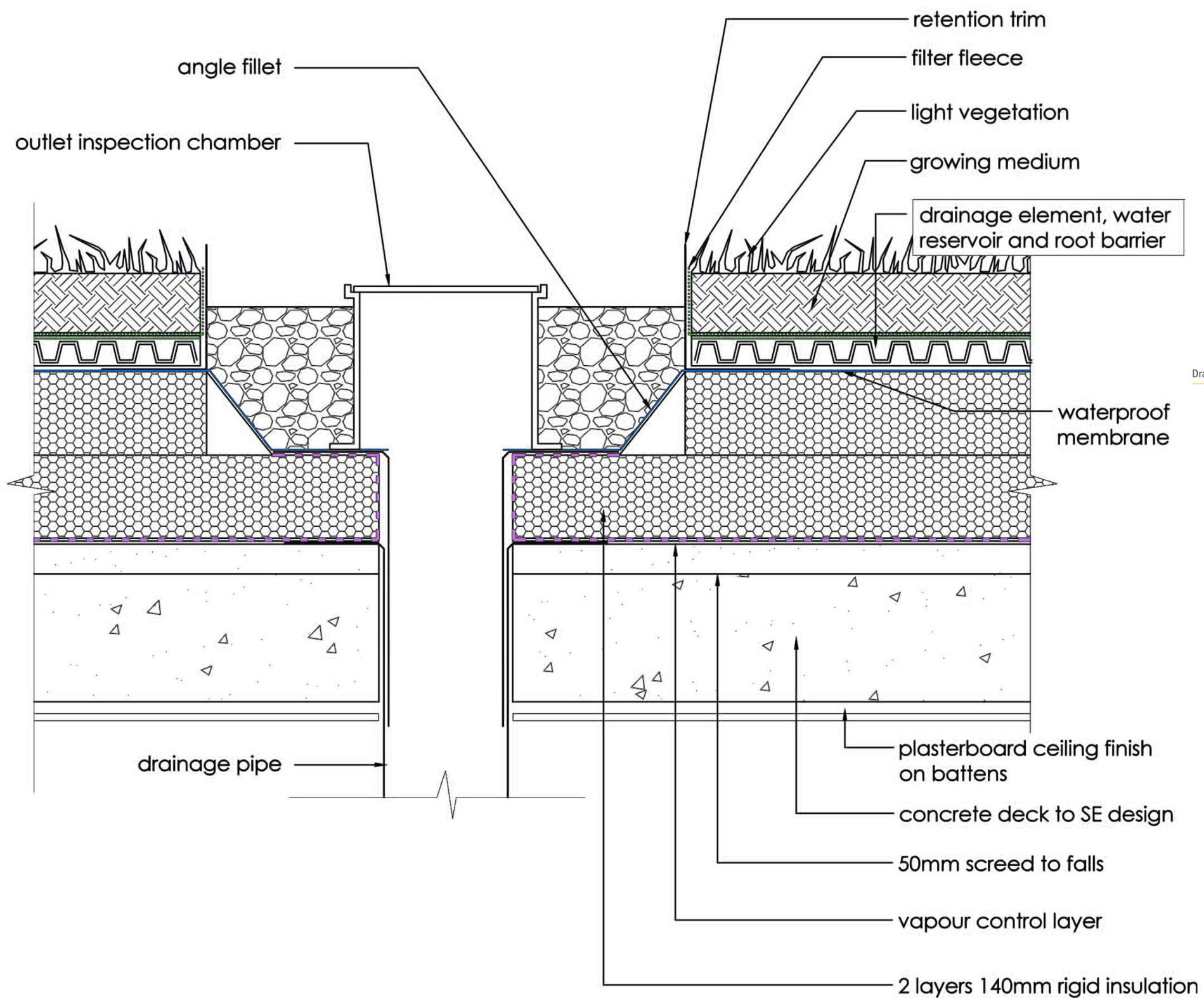


first floor

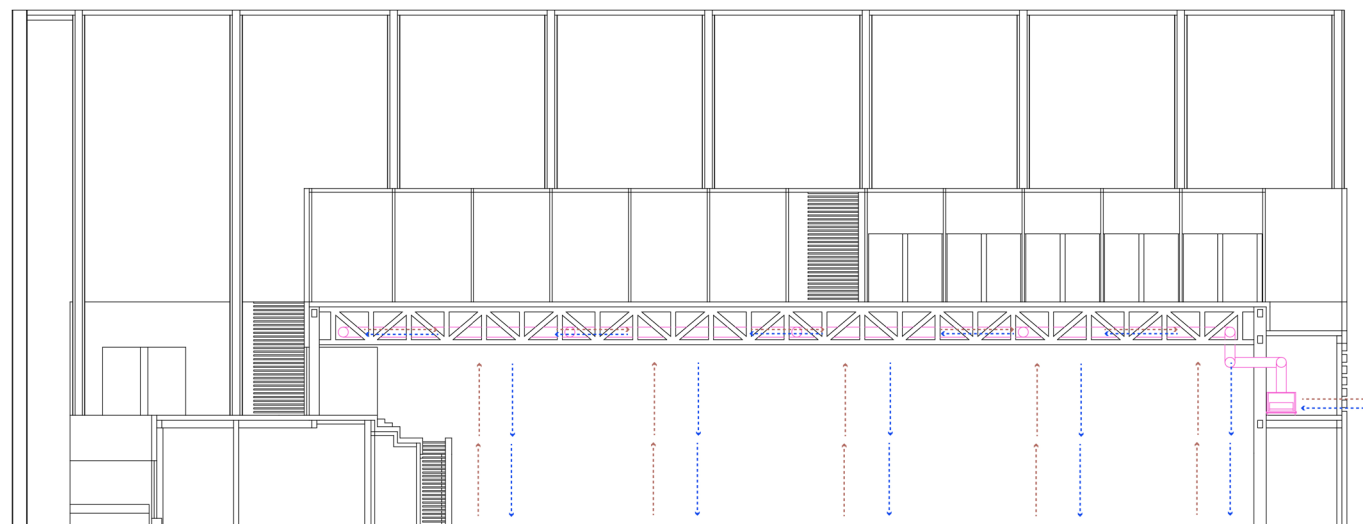
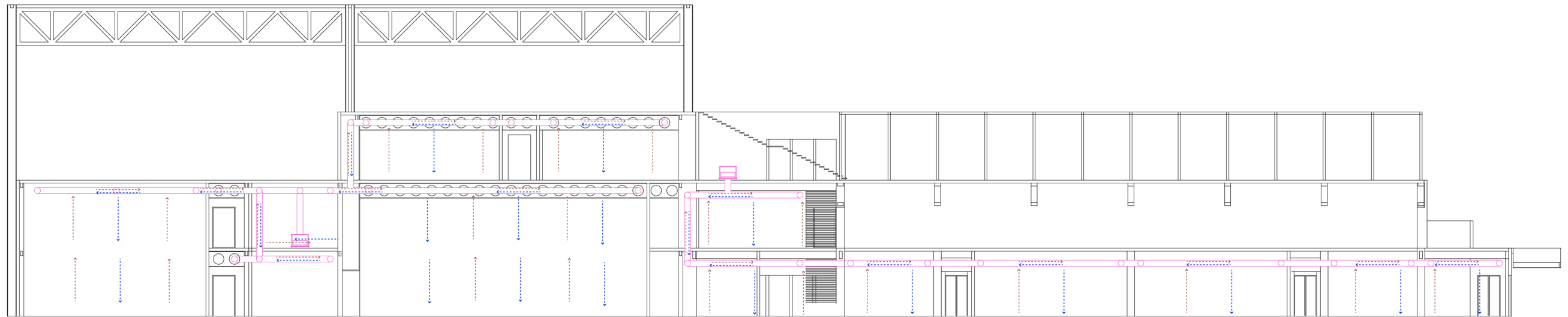


second floor

FIRE ESCAPE ROUTE

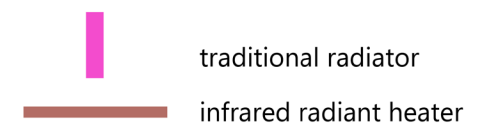
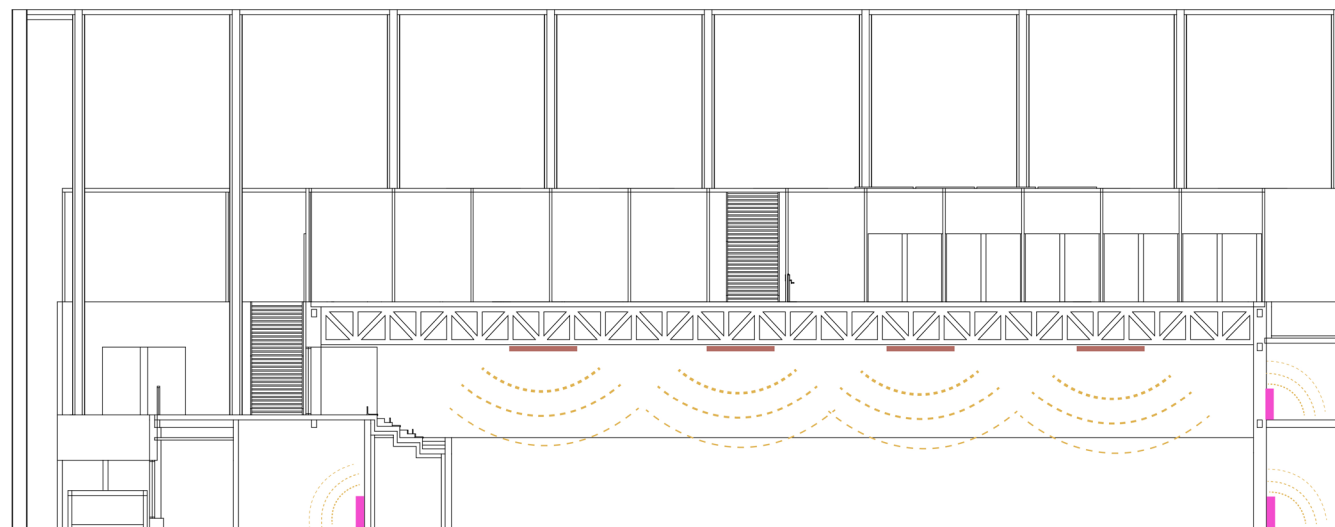
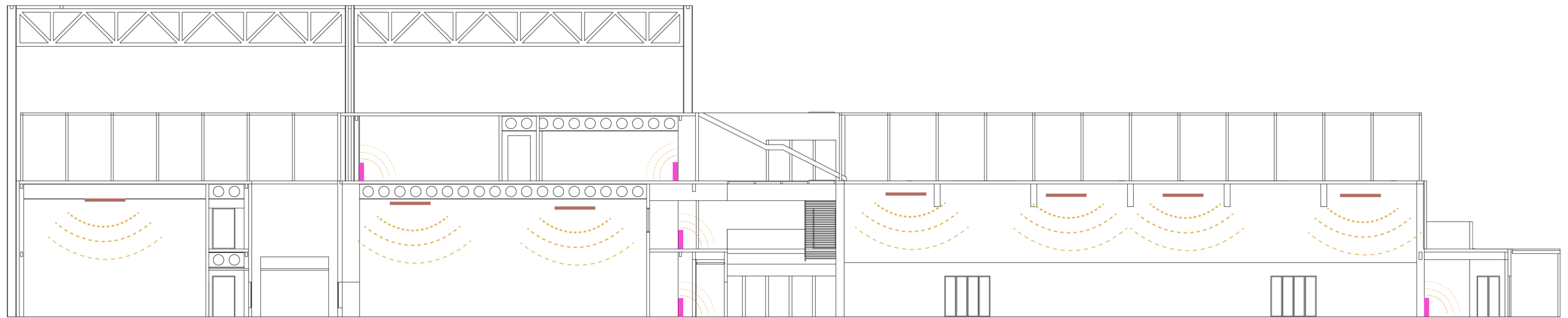


GREEN - BLUE ROOF

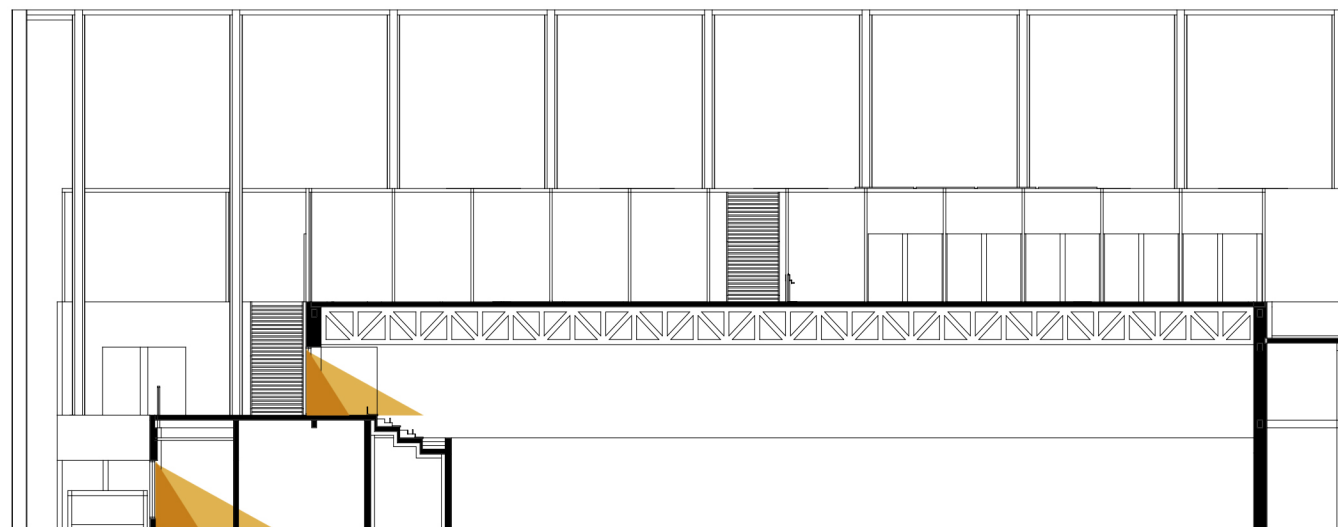
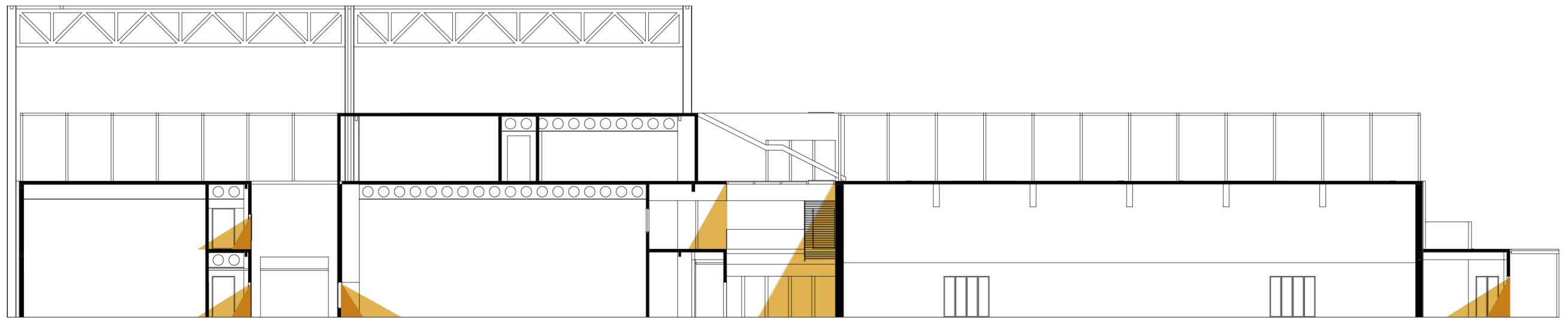


- - - - -> warm air
 <- - - - - fresh air

MECHANICAL VENTILATION SYSTEM



HEATING SYSTEM



SUNLIGHT