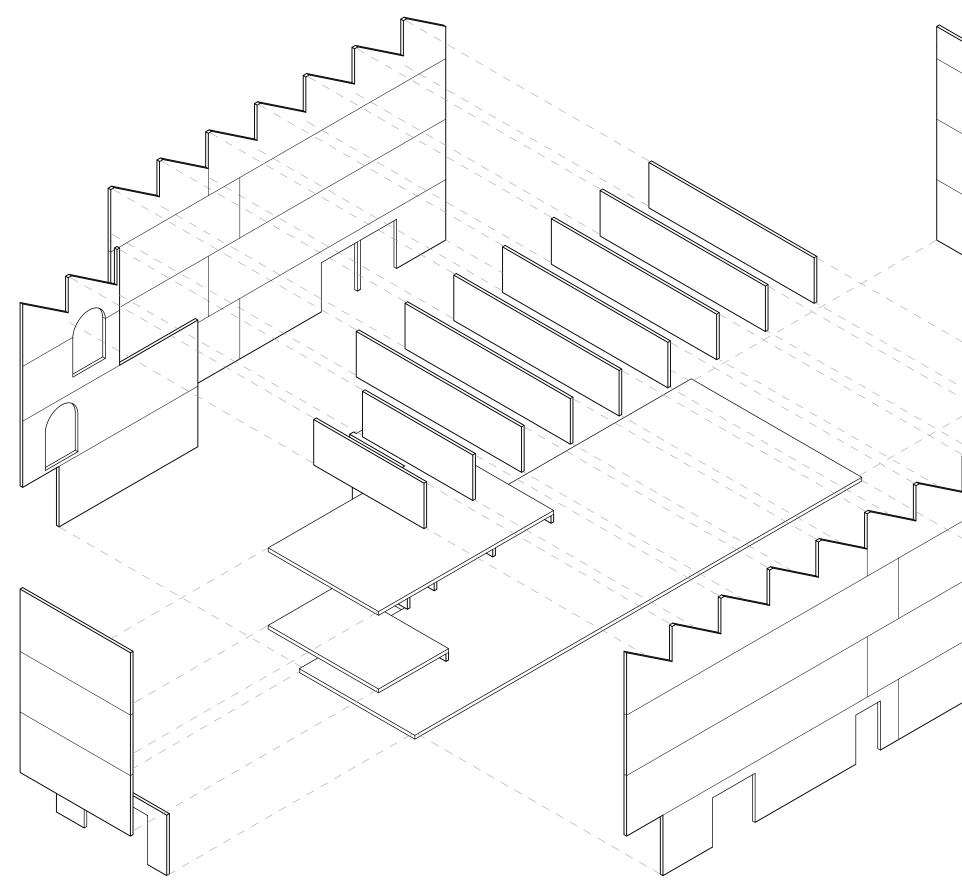
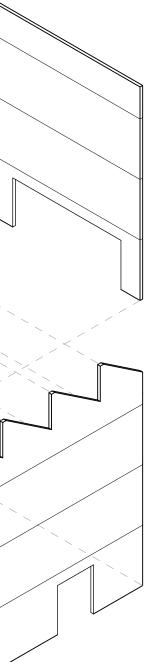
PJOTR VAN NOESEL

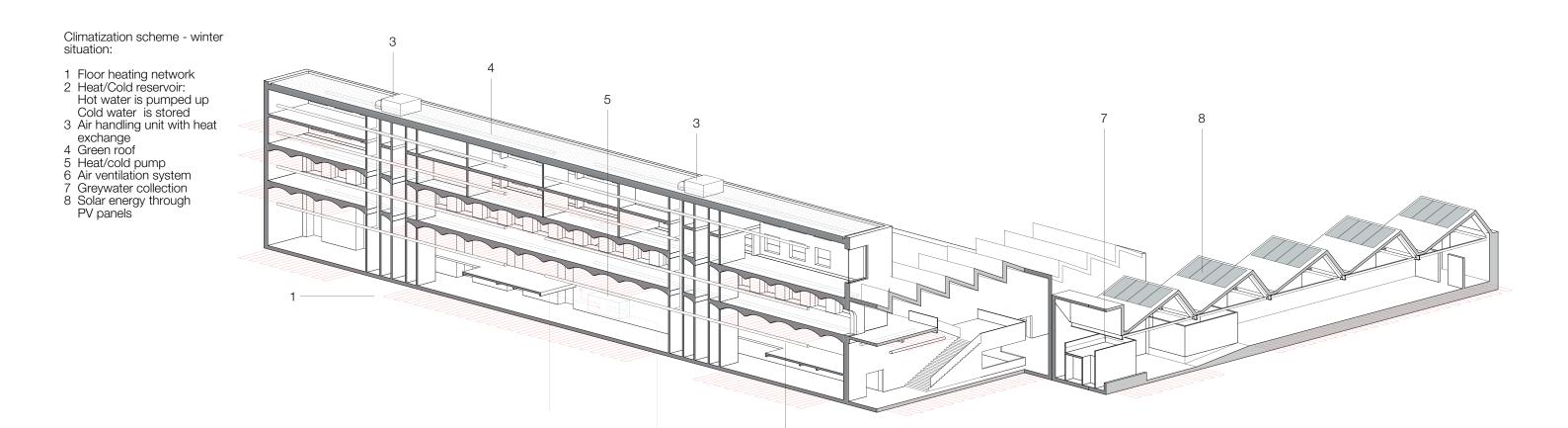
CULTURAL CENTER IN A PAPER MILL

BUILDING TECHNOLOGY HANDOUT

TU Delft Architecture and the Built Environment Graduation studio Urban Architecture Year 2021/2022 P5 presentation





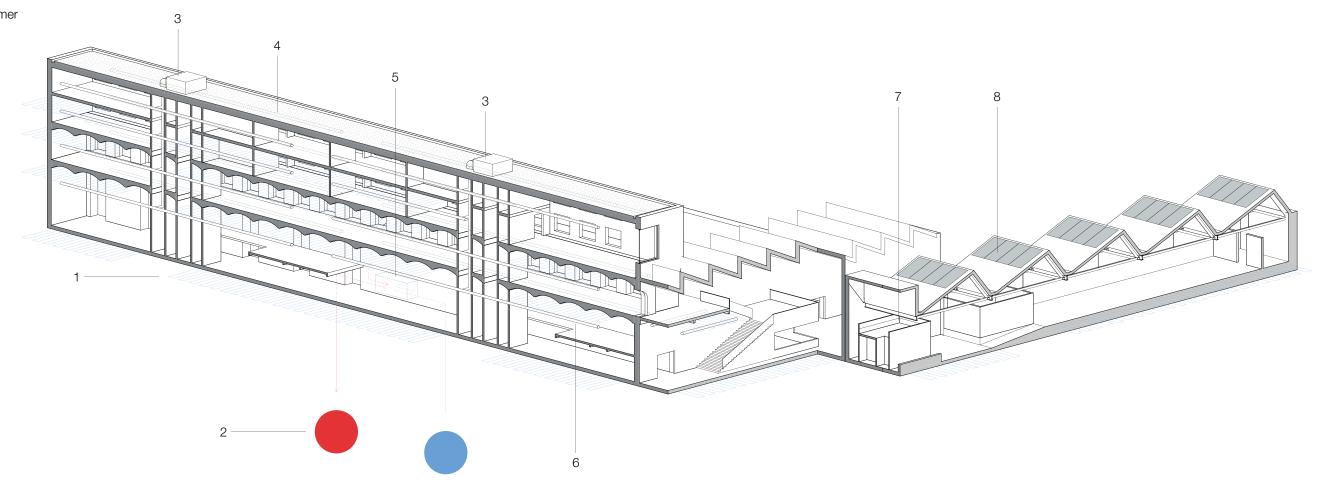


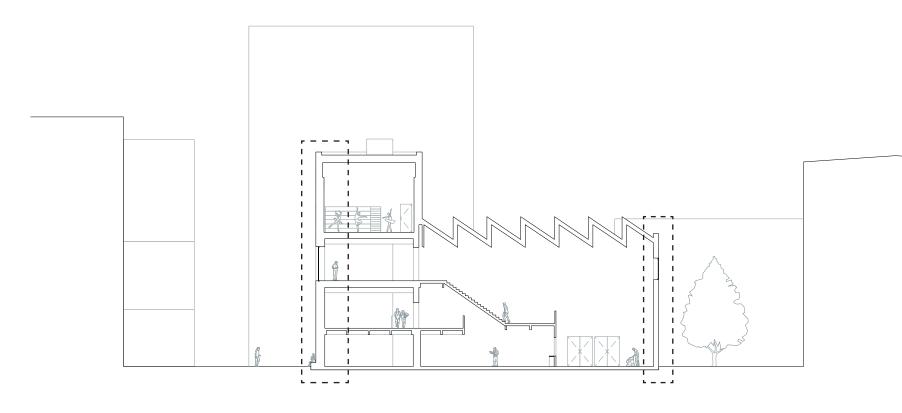
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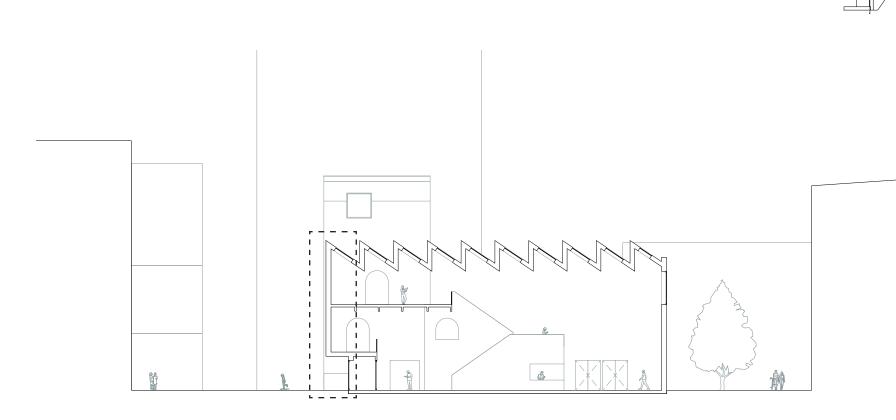
Climatization scheme - summer situation:

2

- Floor cooling network
 Heat/Cold reservoir: Cold water is pumped up Hot water is stored
 Air handling unit with heat explanate
- 3 Air nanoling unit with n exchange
 4 Green roof
 5 Heat/cold pump
 6 Air ventilation system
 7 Greywater collection
 8 Solar energy through PV panels

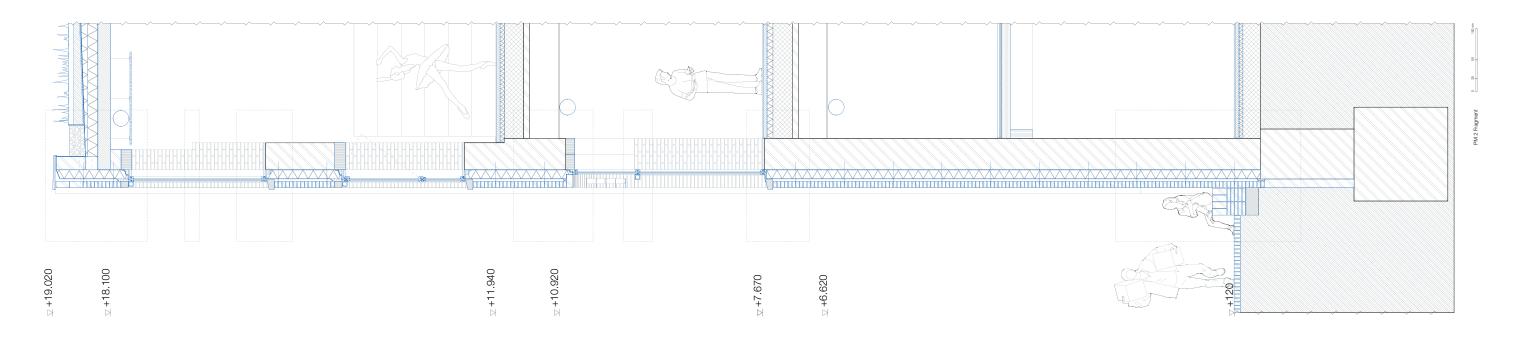


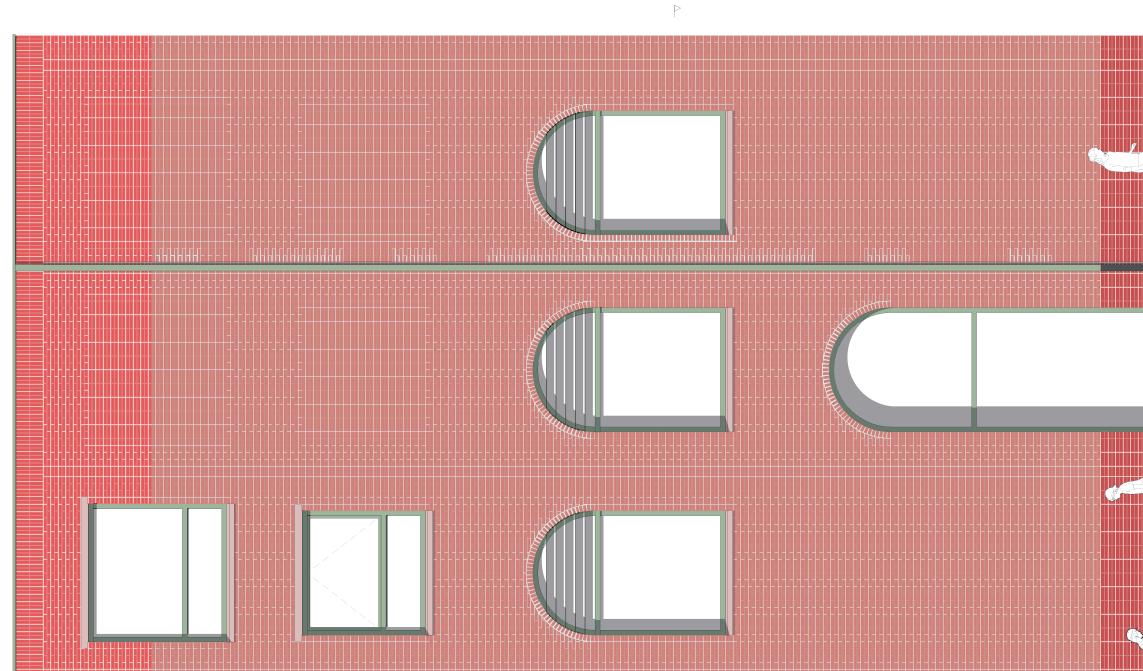




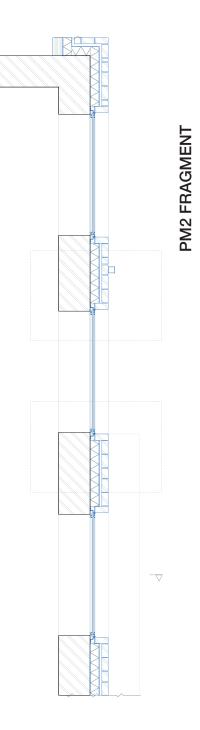
Section D-D* 0 1 2 5m

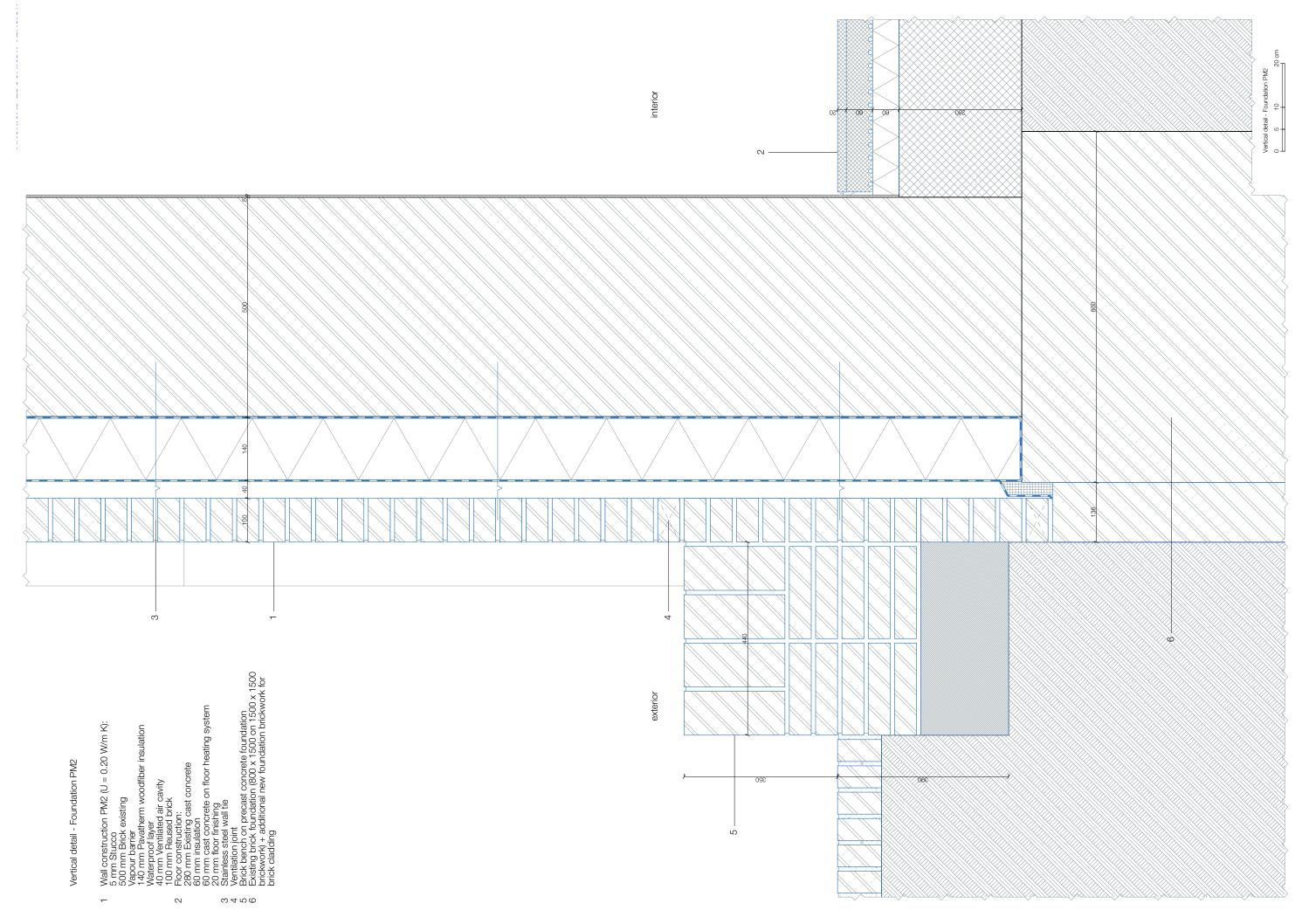
Section E-E 0 1 2 5 m



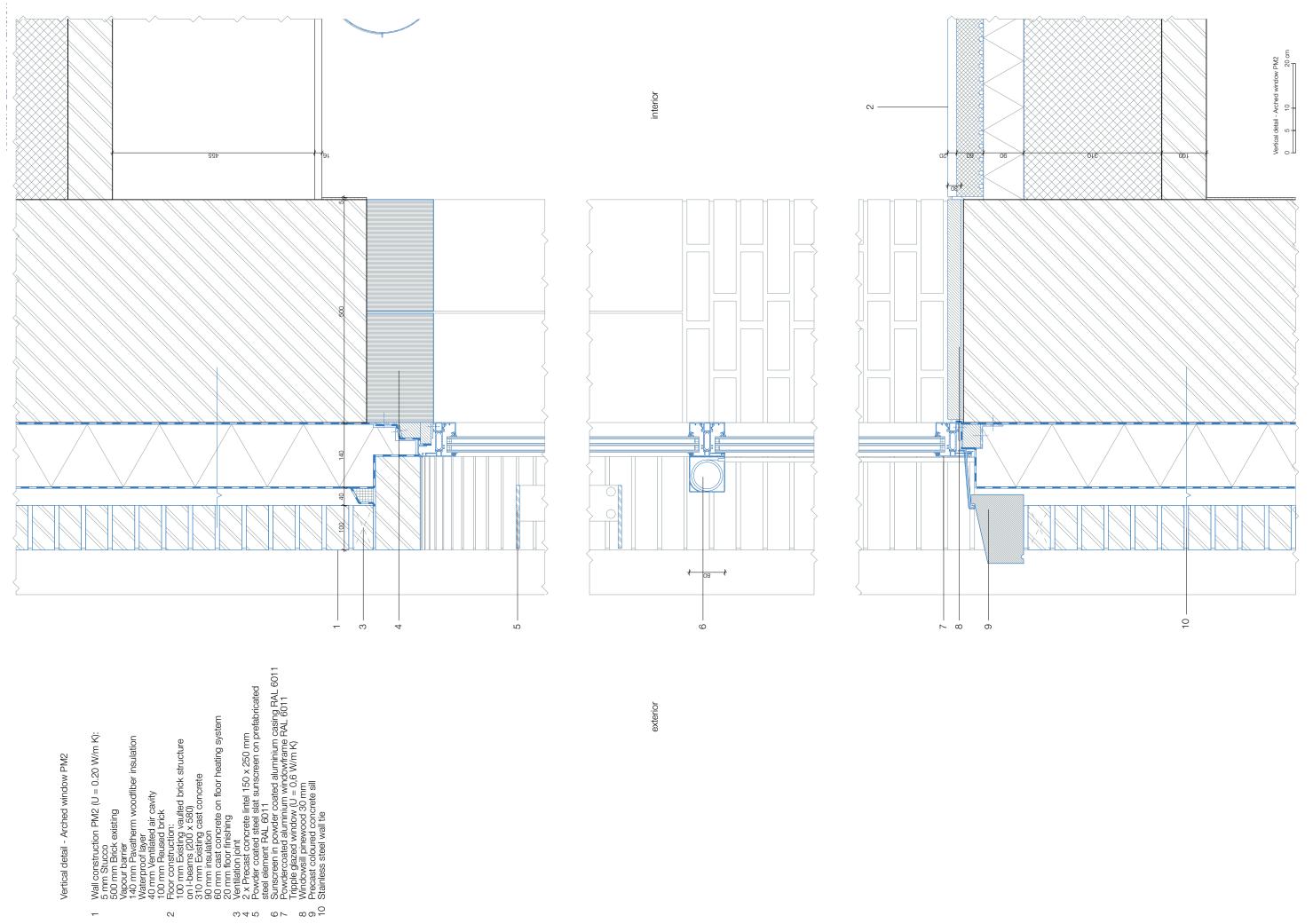








PM2 FOUNDATION



exterior

Vertical detail - Arched window PM2

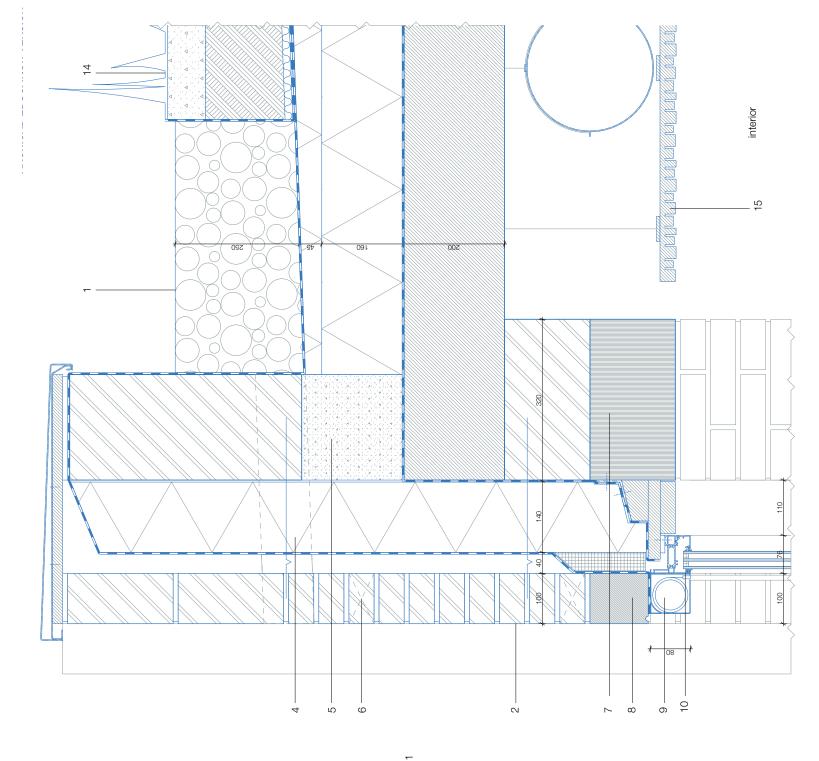
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- - \sim

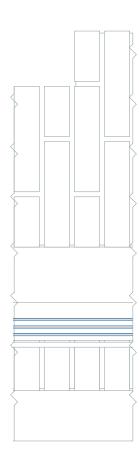
PM2 ARCHED WINDOW

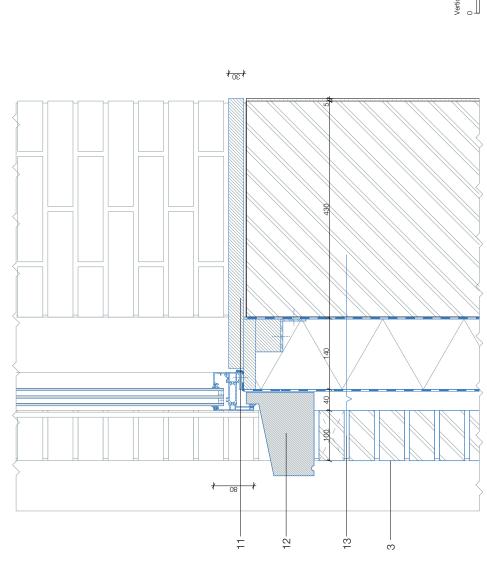
Vertical detail - Roof and window PM2

- Vapour barrier 160 mm Isoroof woodfiber insulation 45 mm Foamboard insulation layer for drainage Waterproof layer 250 mm Brick dark red 220 mm Brick dark red Vapour barrier 140 mm Pavatherm woodfiber insulation Varenproof layer 140 mm Ventilated air cavity 100 mm Brick dark red 30 mm Existing brick 430 mm Existing brick 430 mm Existing brick Vaterproof layer 140 mm Pavatherm woodfiber insulation Wall construction PM2 (U = 0.20 W/m K); 5 mm Stucco 430 mm Existing brick Vall construction PM2 (U = 0.20 W/m K); 5 mm Stucco 430 mm Existing brick Vall construction PM2 (U = 0.20 W/m K); 5 mm Stucco 430 mm Existing brick Vall construction PM2 (U = 0.20 W/m K); 5 mm Stucco 3 Vall construction PM2 (U = 0.20 W/m K); 5 mm Stucco 4 mm Ventilated air cavity 100 mm Reused brick brown-red A canal to drainage pipe A recast coloured concrete lintel 3 Sunscreen in powder coated aluminium windowframe RAL 6011 11 Windowsill pinewood 30 mm Precast coloured concrete sill 3 Stanless steel wall tie 4 Greenroof 30 mm construction PM2 (U = 0.21 W/m K): nm Precast concrete floor slabs Roof 200 r 200 r 160 r 160 r 45 m 250 r 250 r 250 r 250 r 320 r 320 r --- \sim С
- nm Green roof substrate
- Veg 15
- notrend accoustic wood panneling

exterior









PM2 ROOD-WINDOW

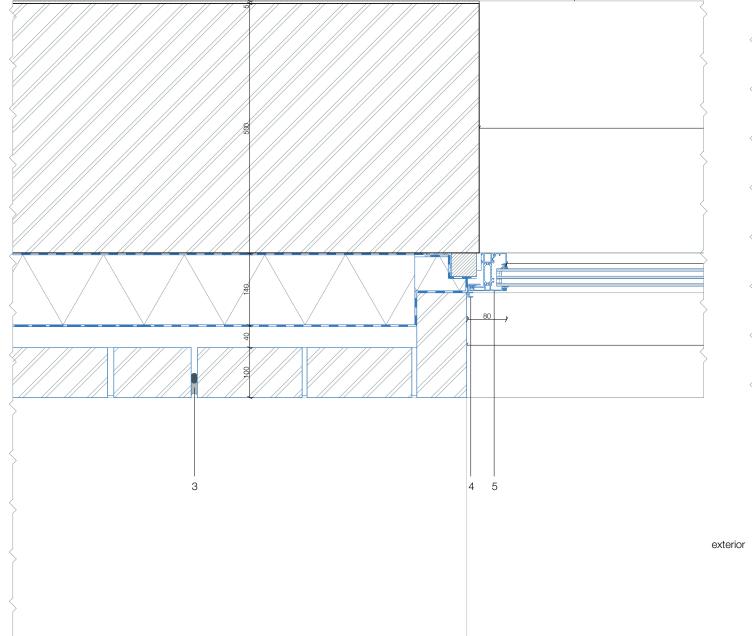
Horizontal detail - Arched window PM2

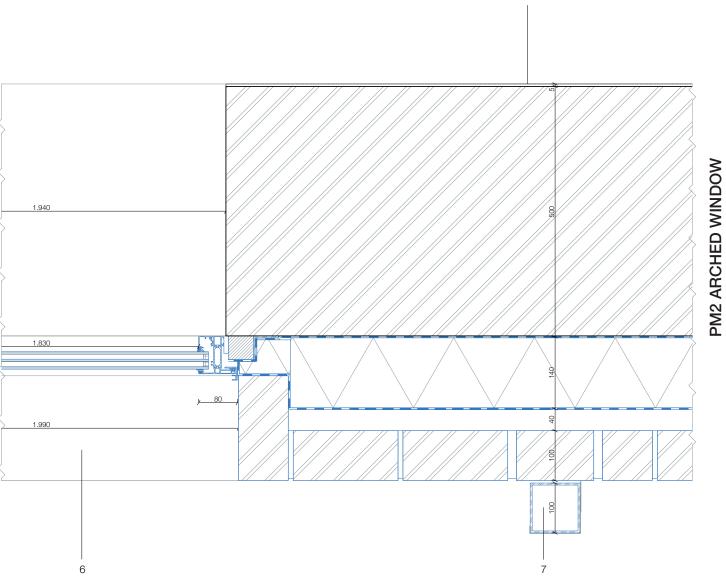
- Wall construction PM2 (U = 0.20 W/m K): 5 mm Stucco 500 mm Brick existing Vapour barrier 140 mm Pavatherm woodfiber insulation Waterproof layer 40 mm Ventilated air cavity 100 mm Reused brick
 Windowsill pinewood 30 mm
 Expansion joint
 Sunscreen guiding profile
 Powdercoated aluminium windowframe RAL 6011 Tripple glazed window (U = 0,6 W/m K)
 Precast coloured concrete lintel
 Powdercoated stainless steel drainage pipe RAL 601

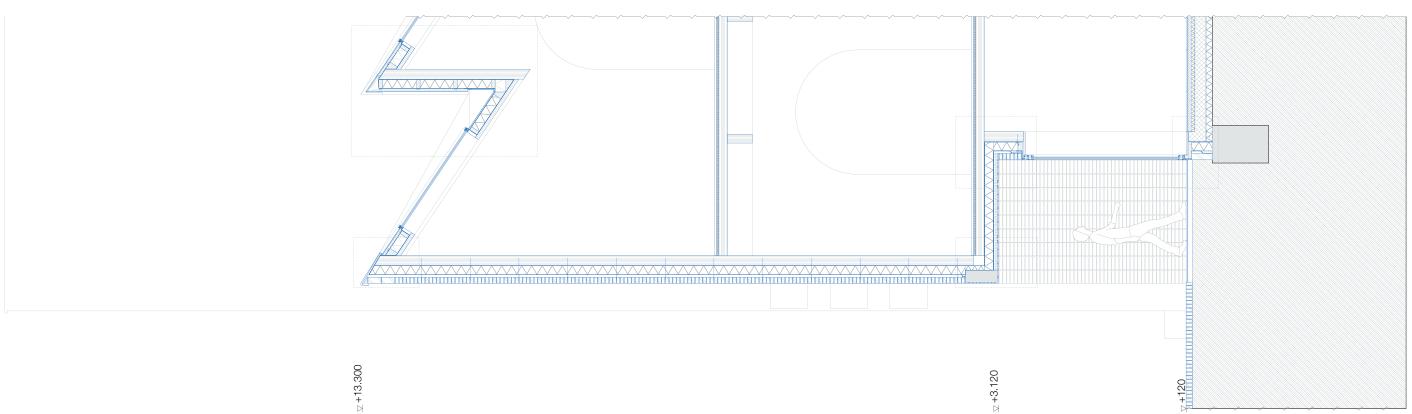
- Powdercoated stainless steel drainage pipe RAL 6011

interior

2

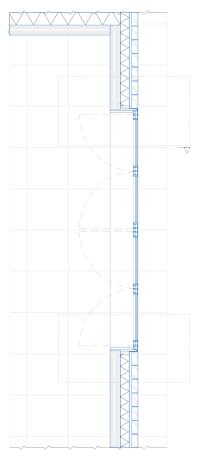




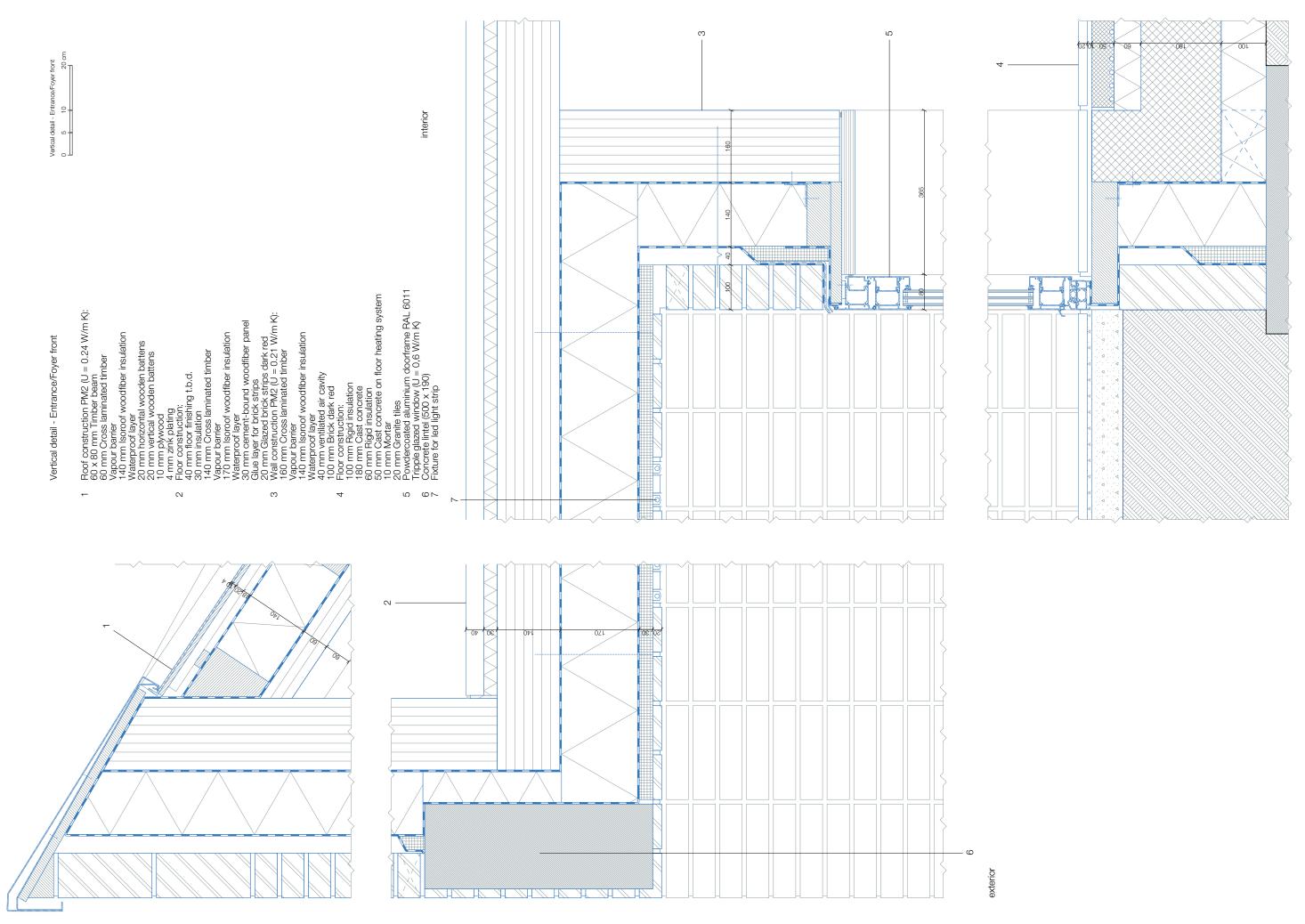




☑ +13.300



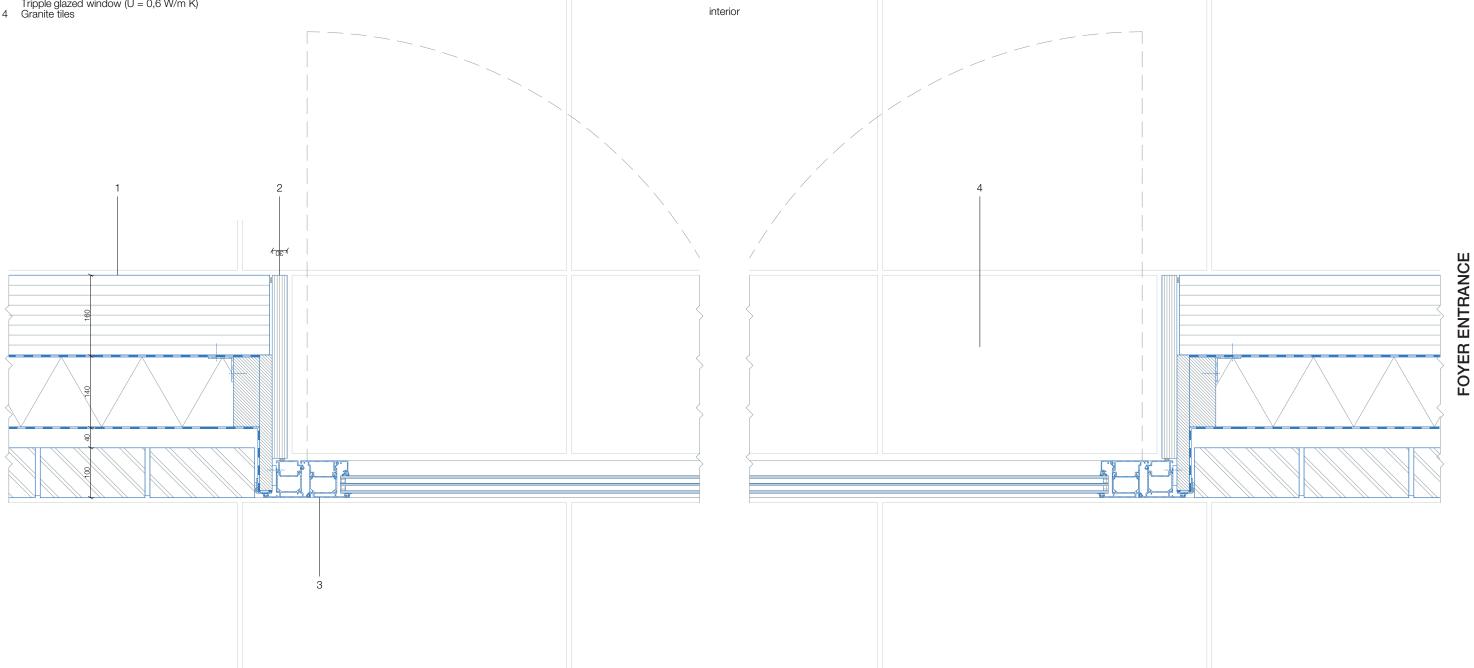




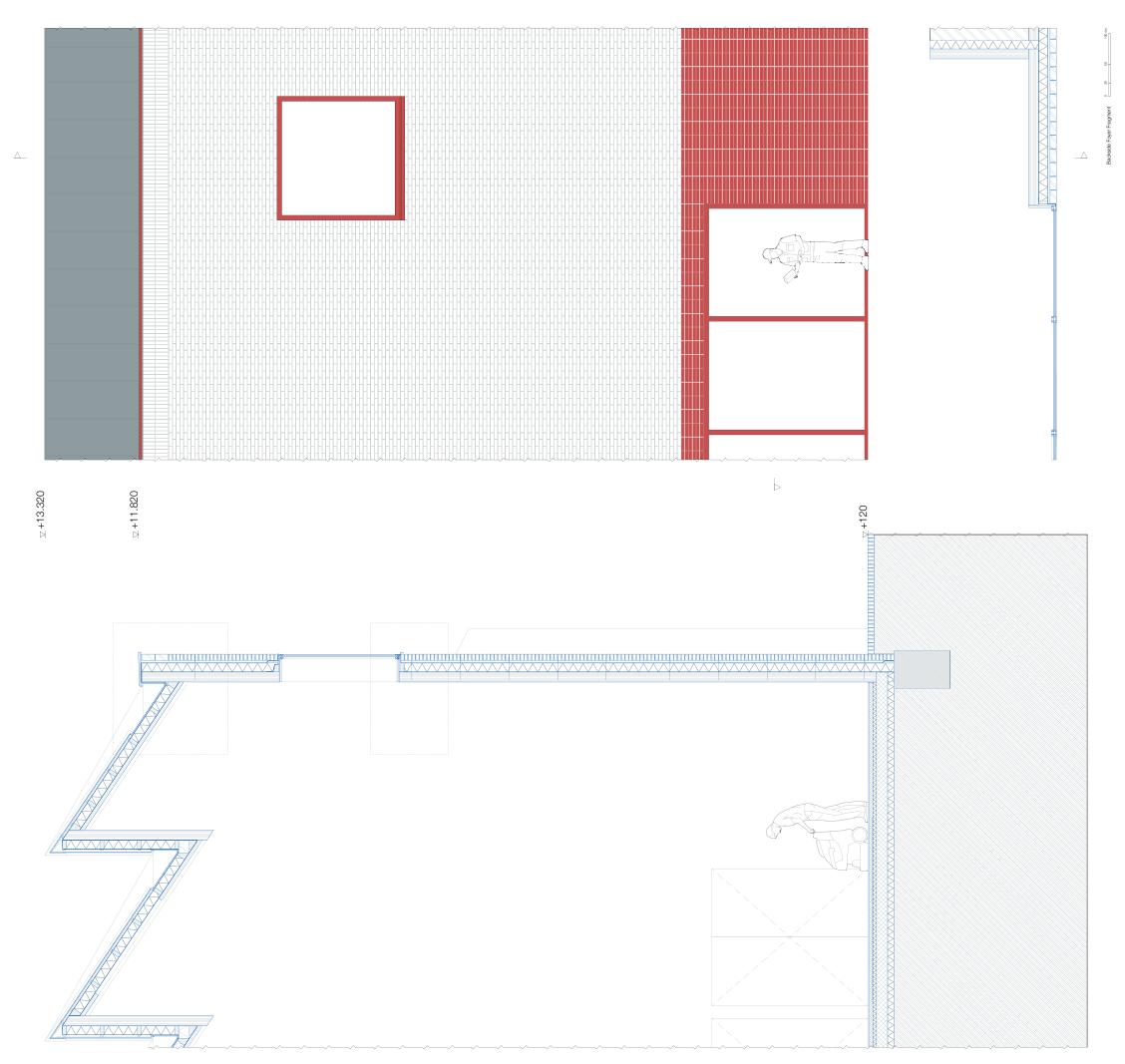
FOYER ENTRANCE

Horizontal detail - Entrance

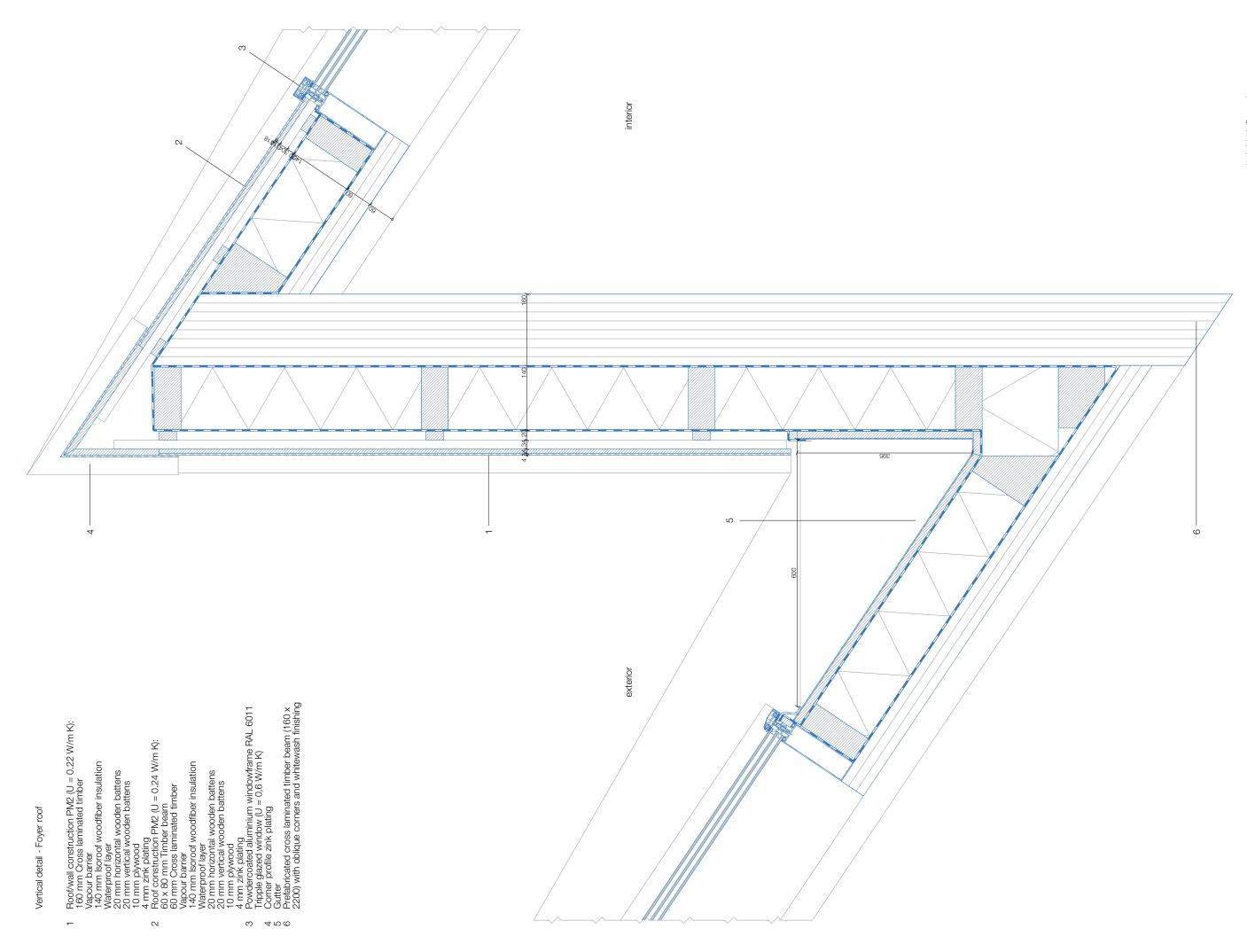
- Wall construction PM2 (U = 0.21 W/m K): 160 mm Cross laminated timber whitewash finishing Vapour barrier 140 mm Isoroof woodfiber insulation Waterproof layer 40 mm ventilated air cavity 100 mm Glazed brick dark red
 Windowsill cross laminated timber 30 mm whitewash finishing
 Powdercoated aluminium doorframe RAL 6011 Tripple glazed window (U = 0,6 W/m K)
 Granite tiles

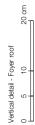


exterior

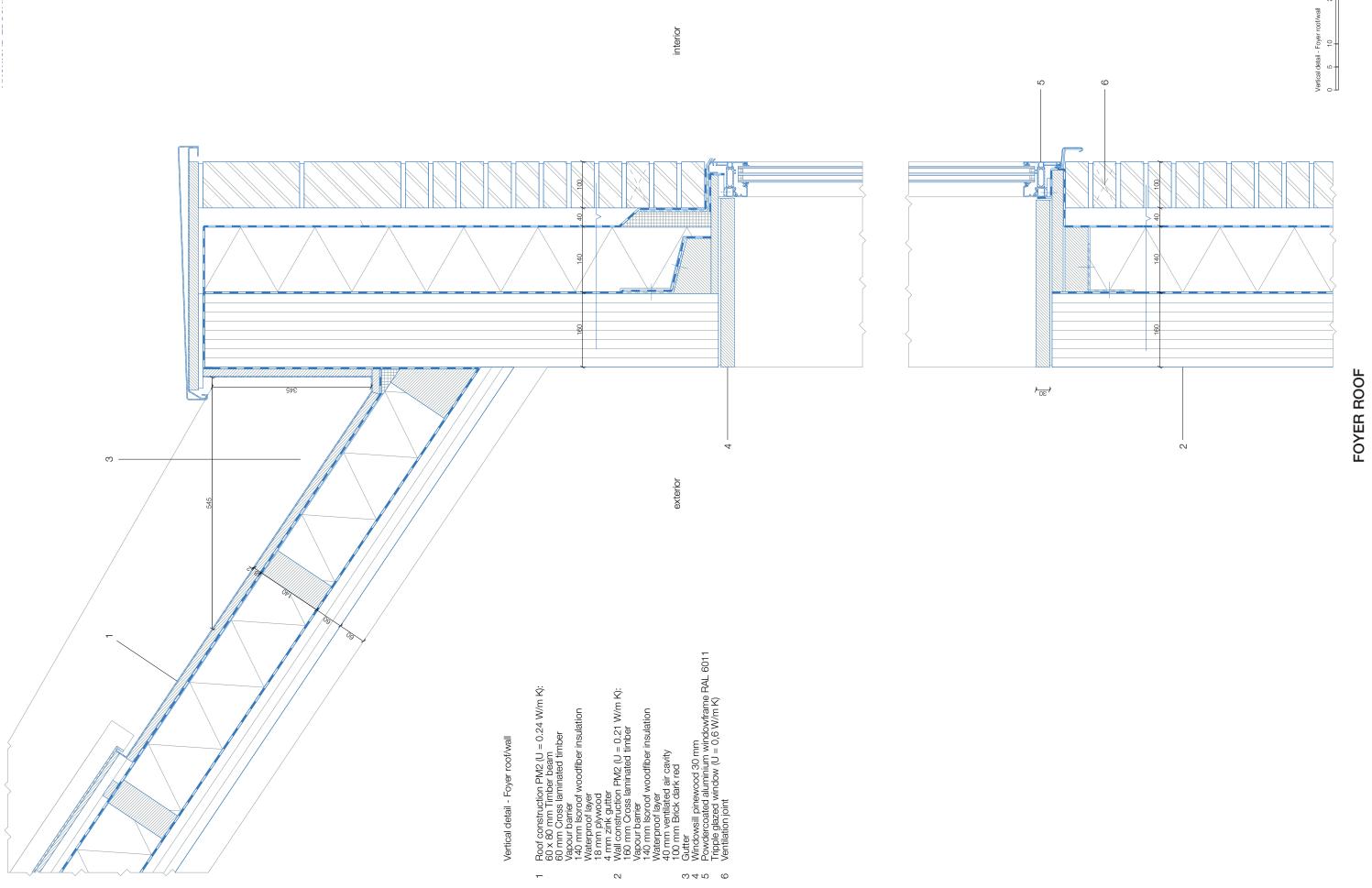


FOYER FRAGMENT





FOYER ROOF



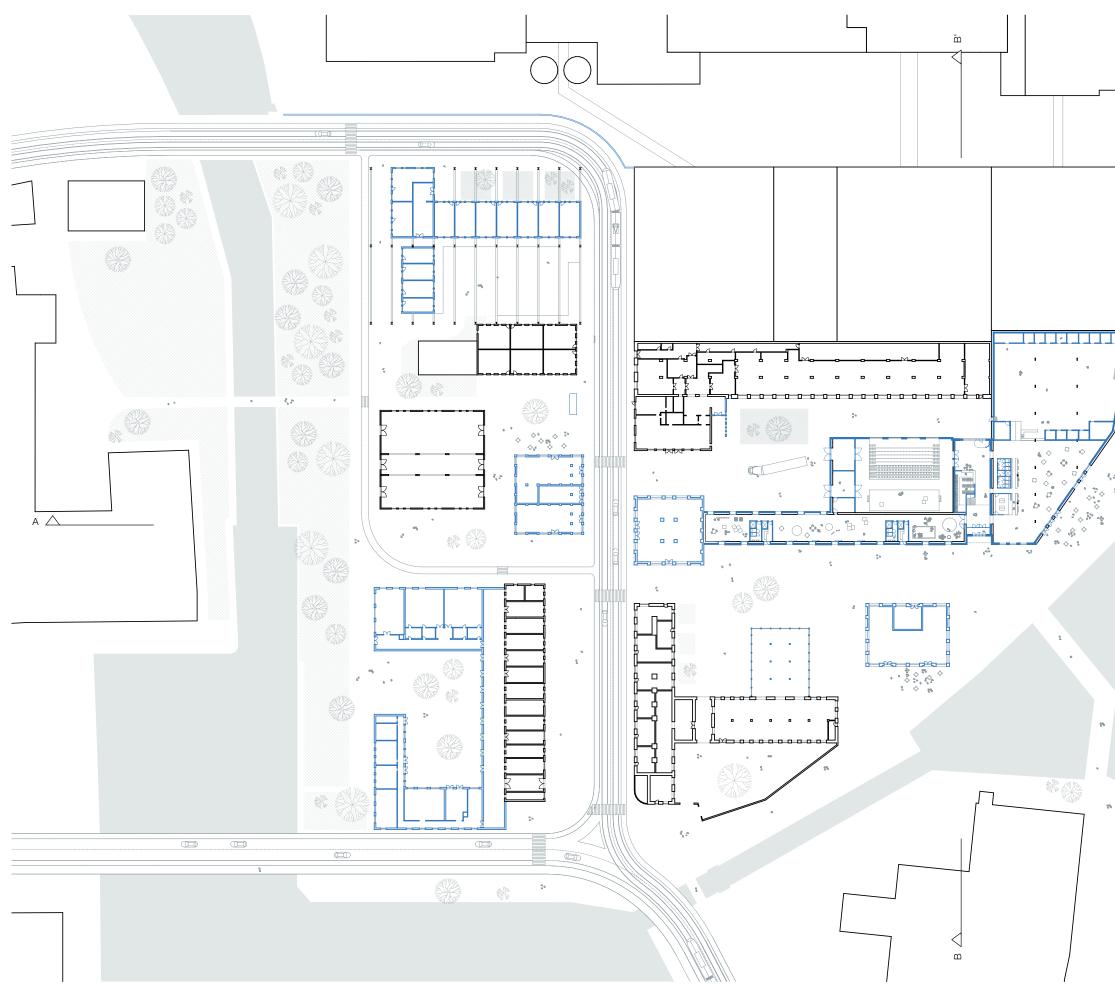
____20 cm

PJOTR VAN NOESEL

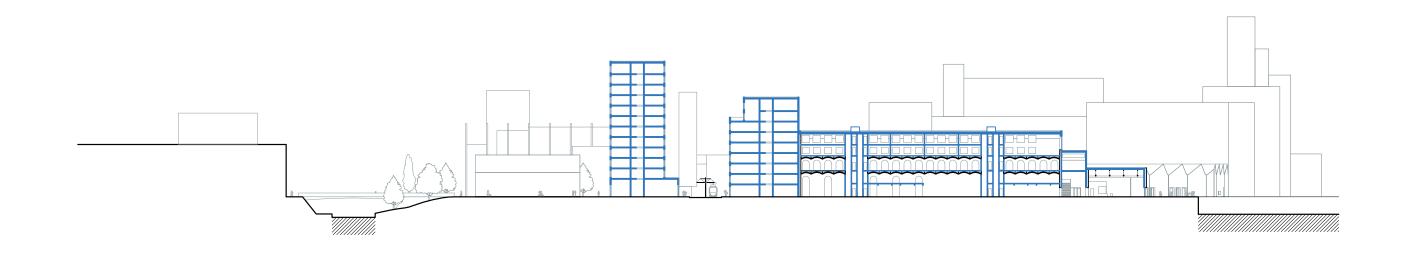
CULTURAL CENTER IN A PAPER MILL

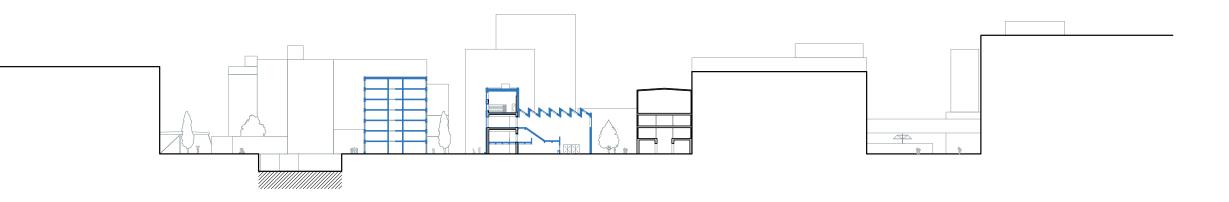
PLANS/SECTIONS/ELEVATIONS

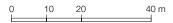
TU Delft Architecture and the Built Environment Graduation studio Urban Architecture Year 2021/2022 P4 presentation

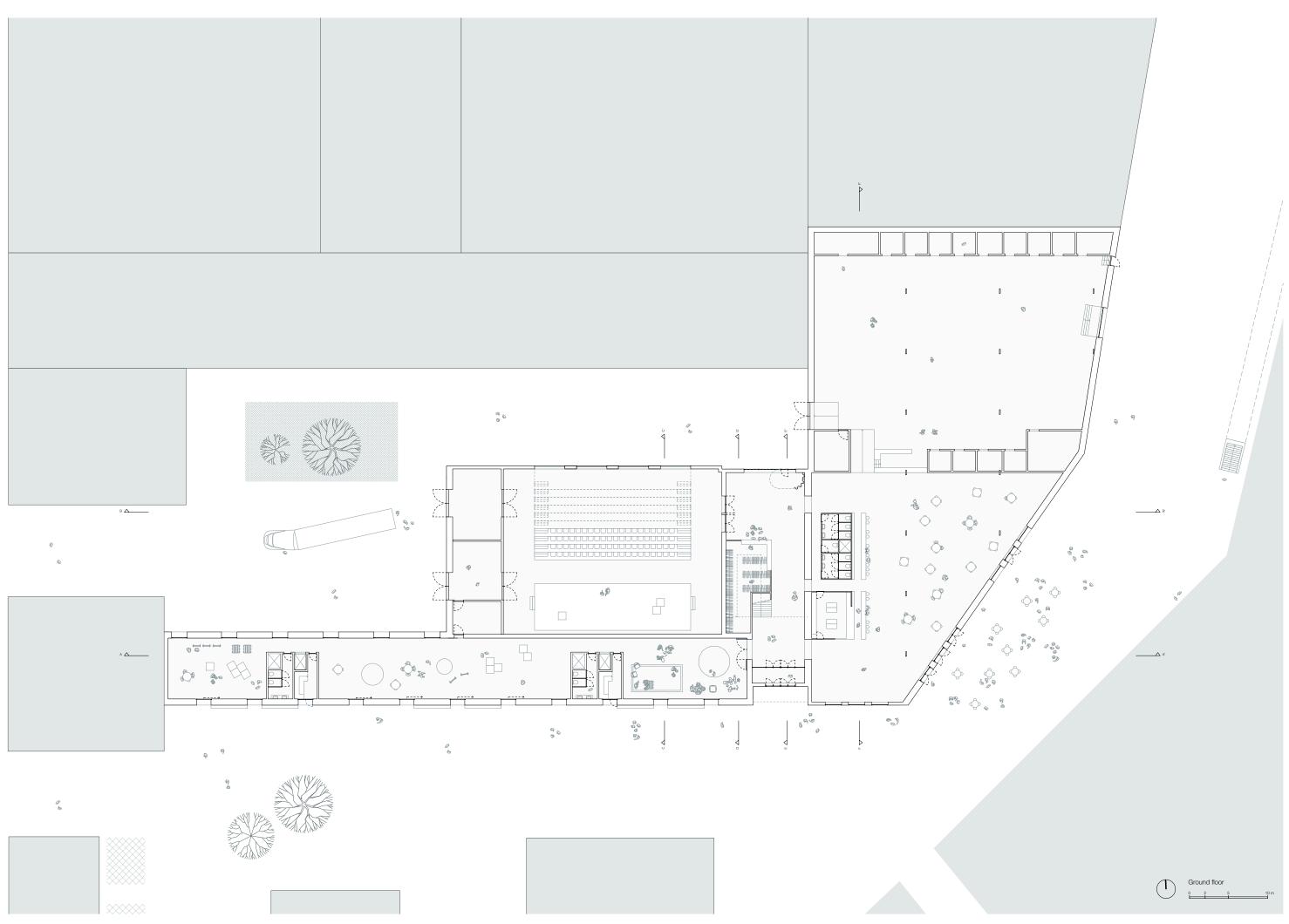


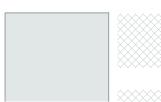
		A'
Urban pla	n 	40 m



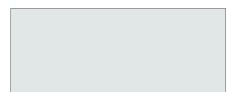


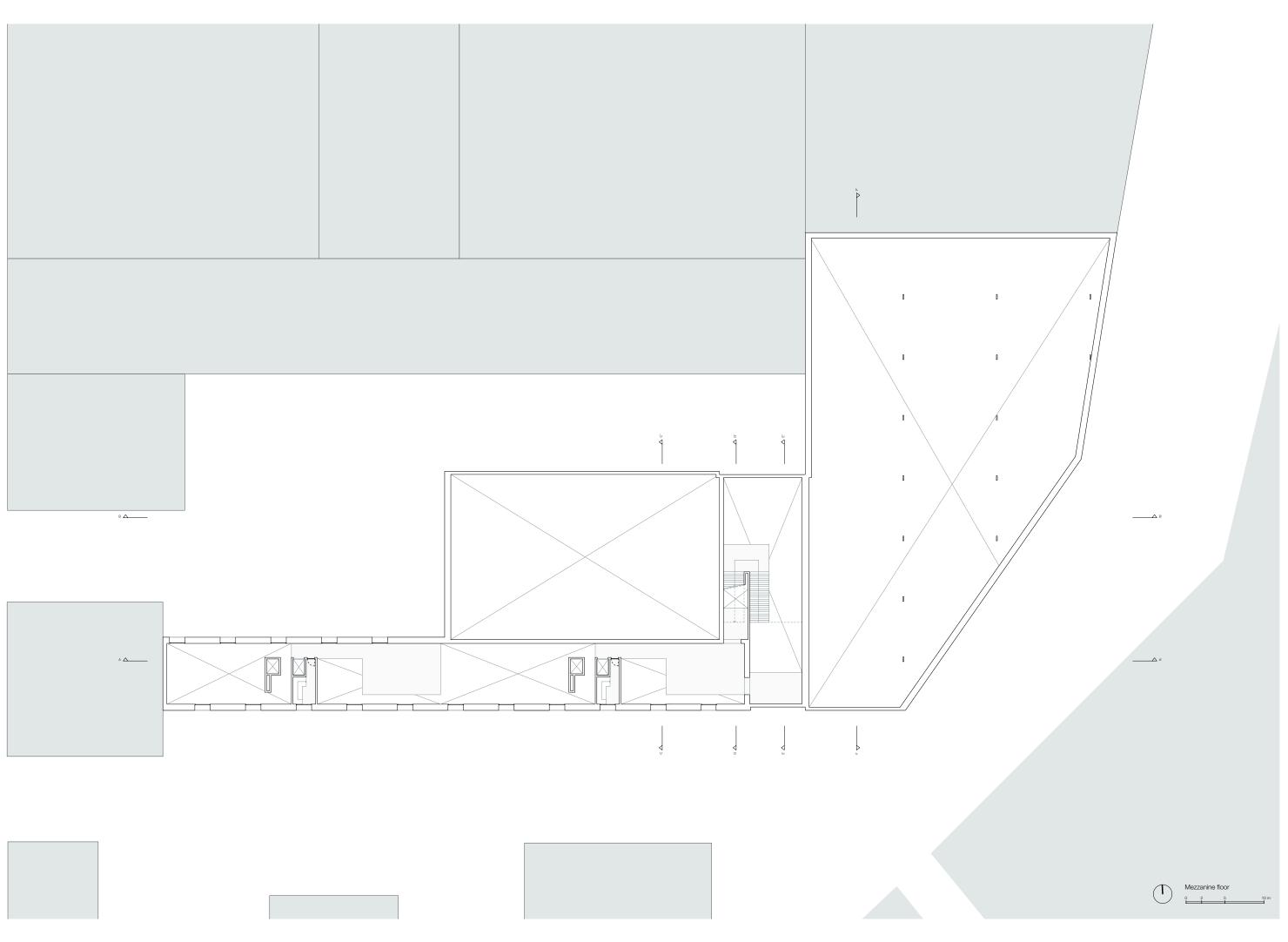


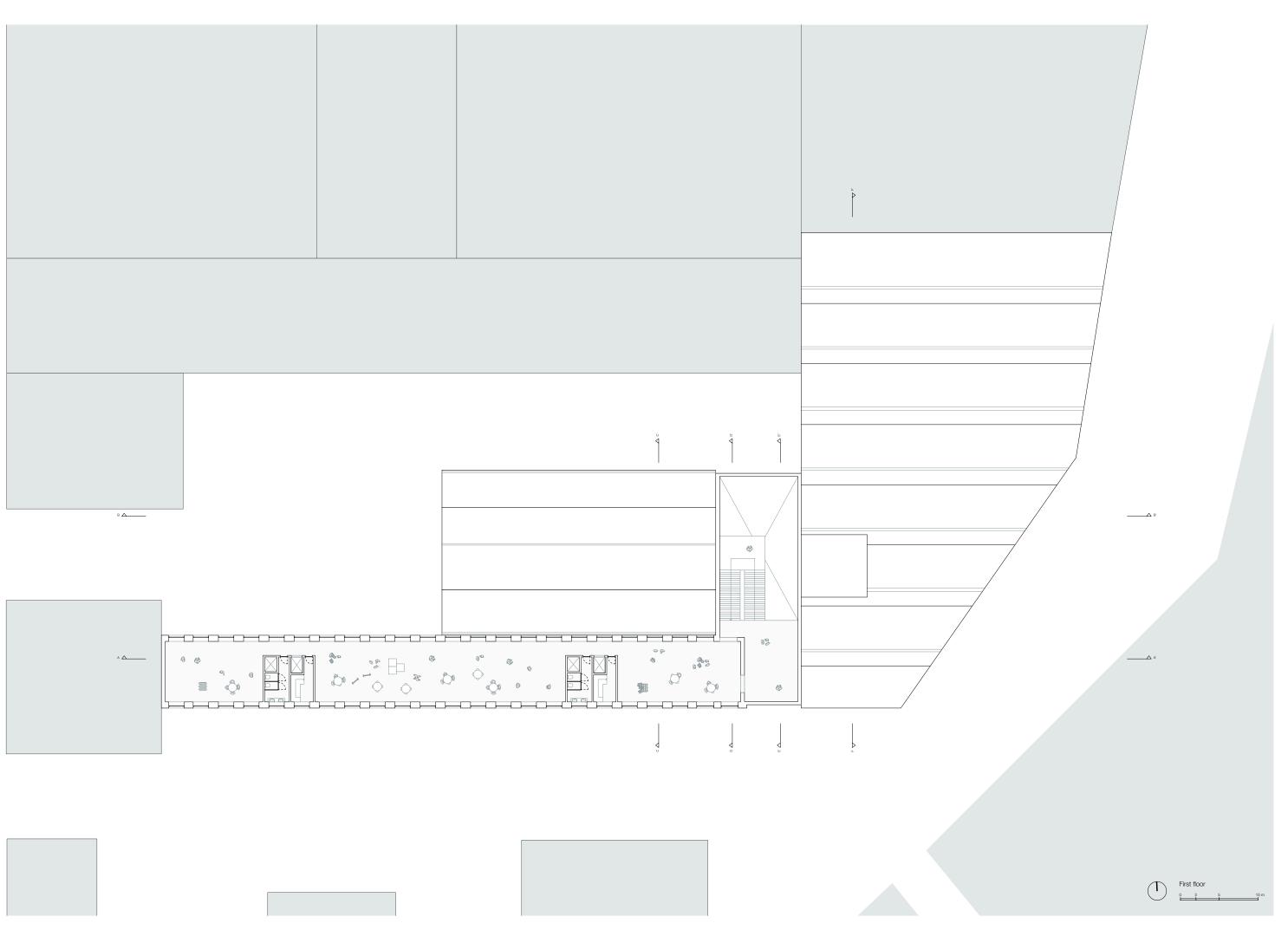


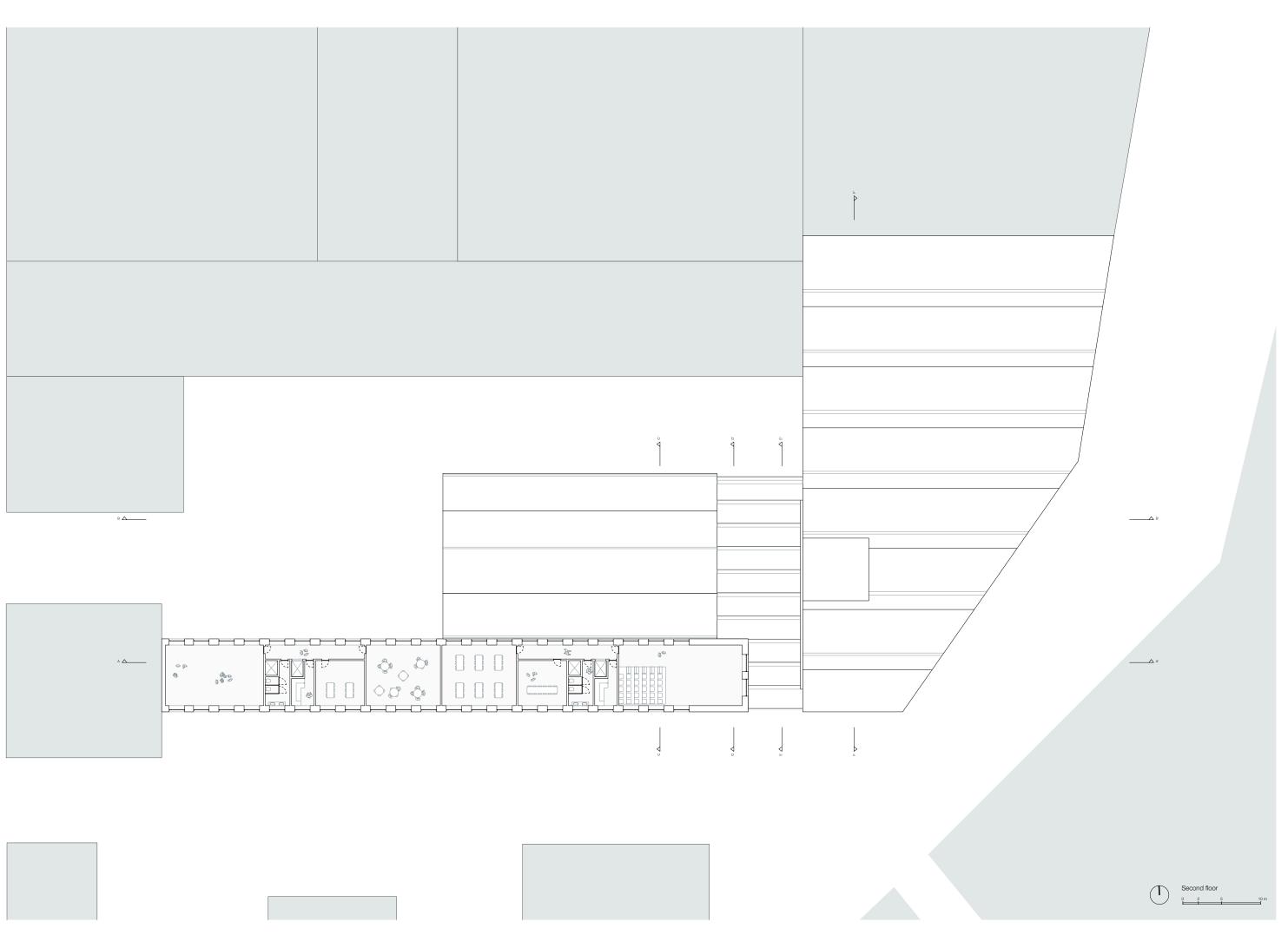


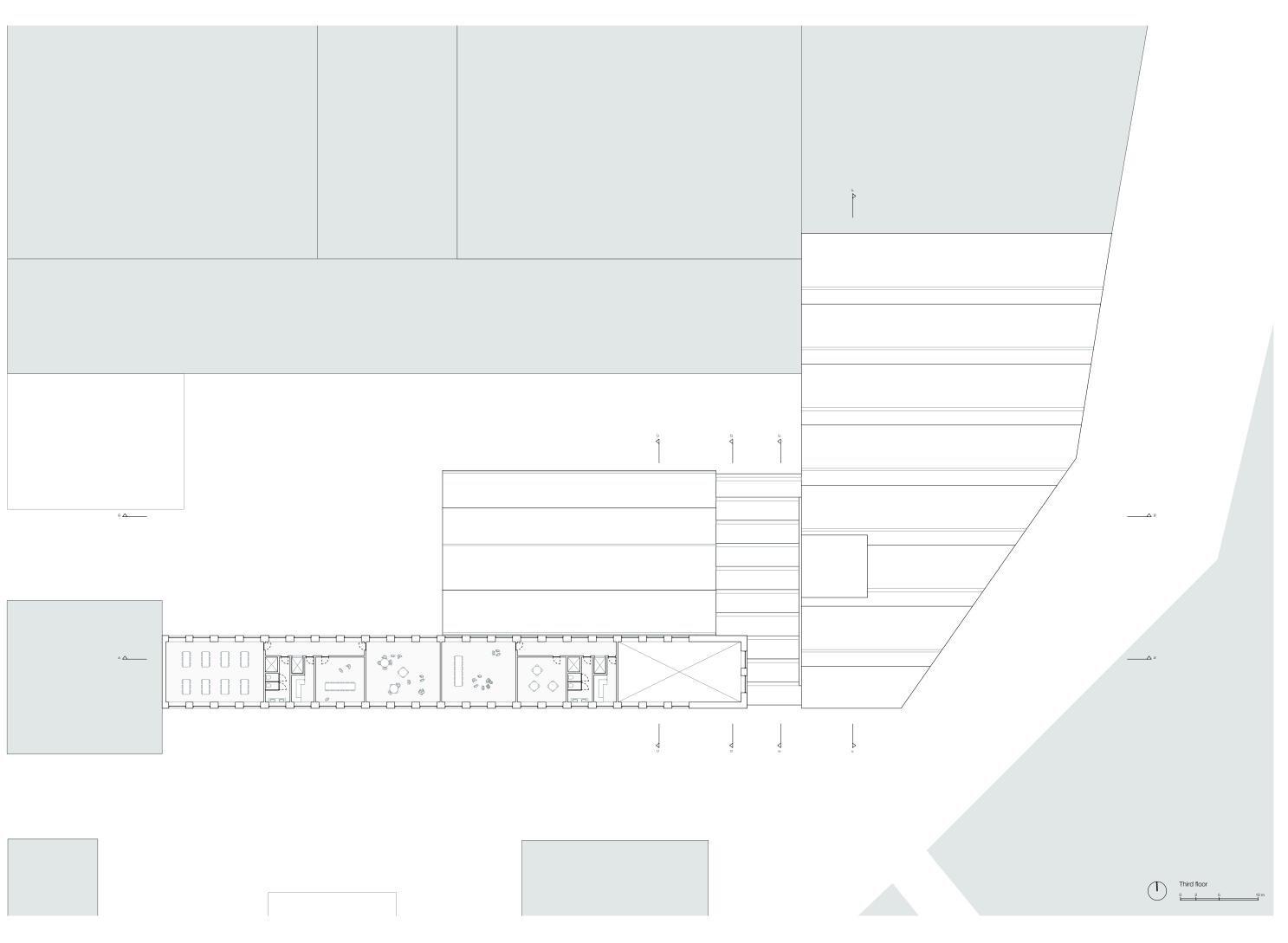


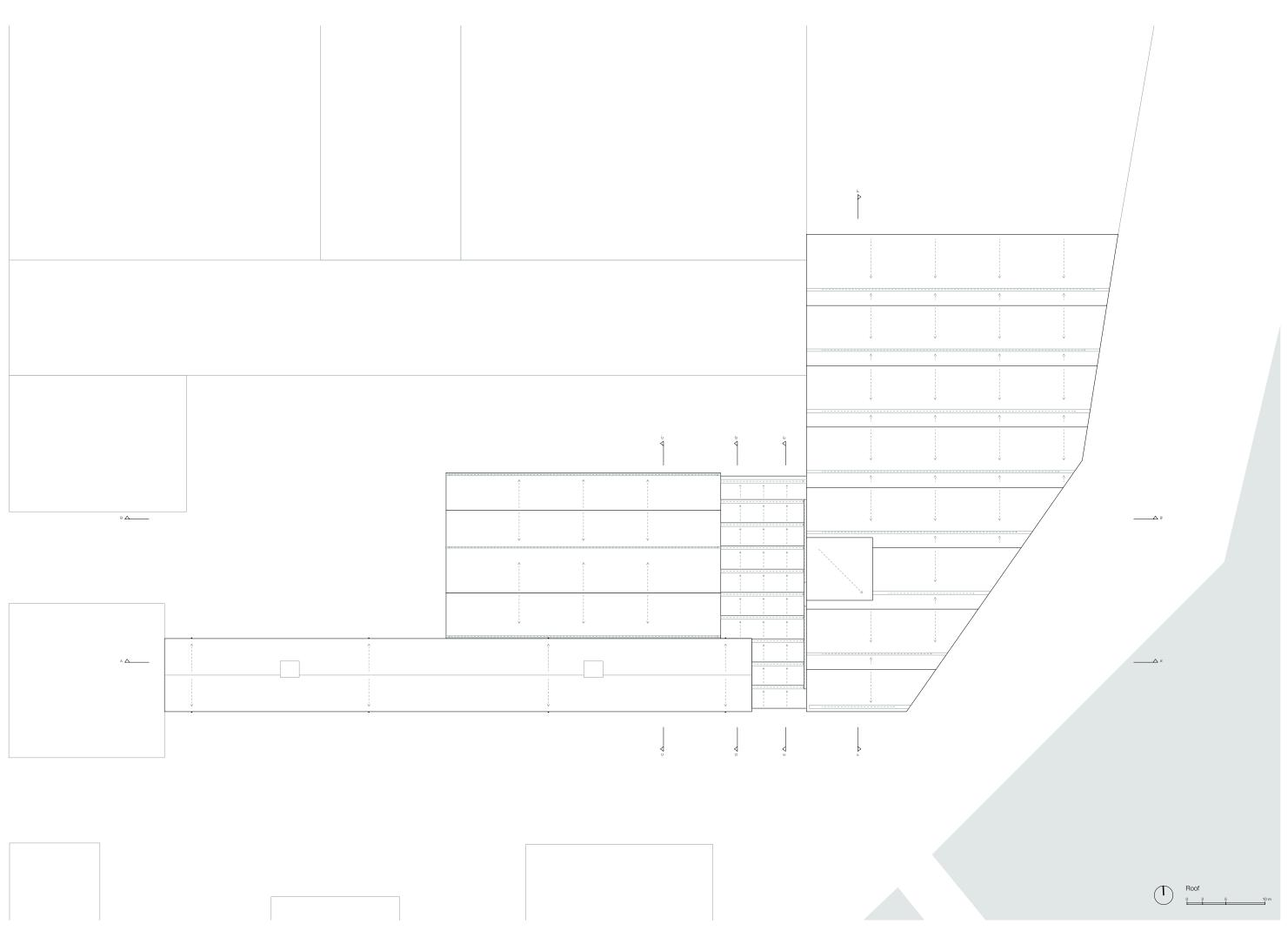




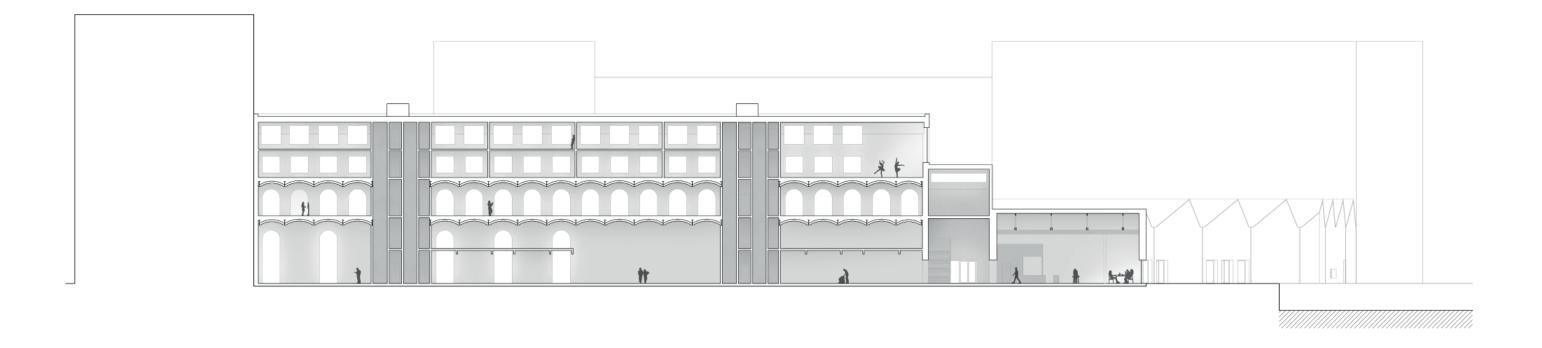




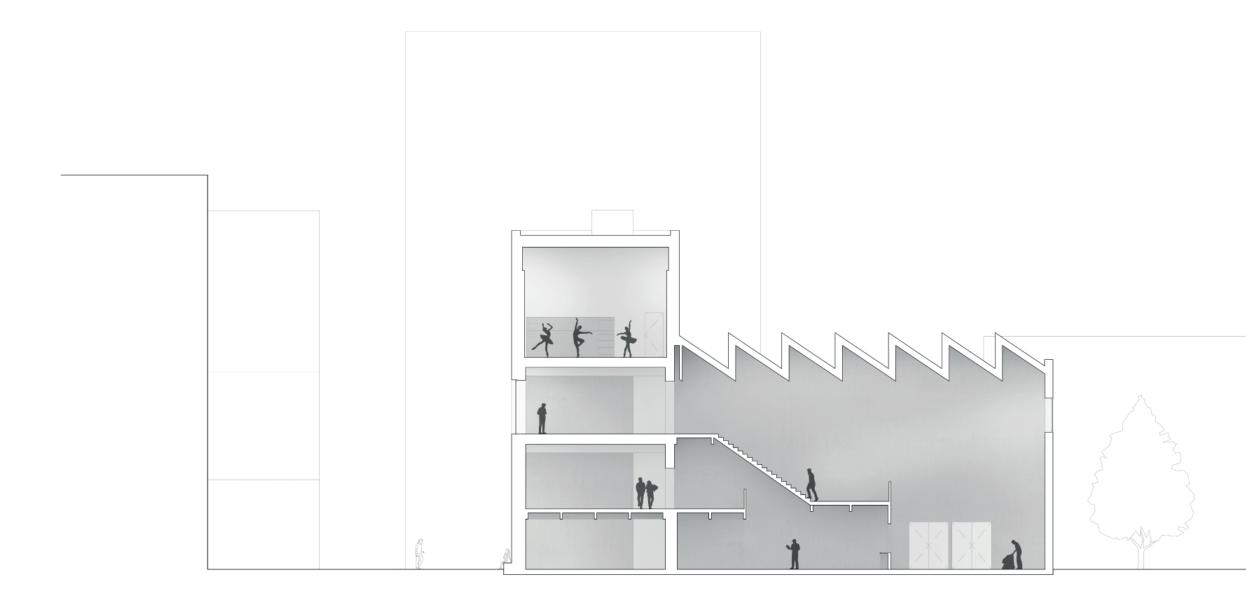






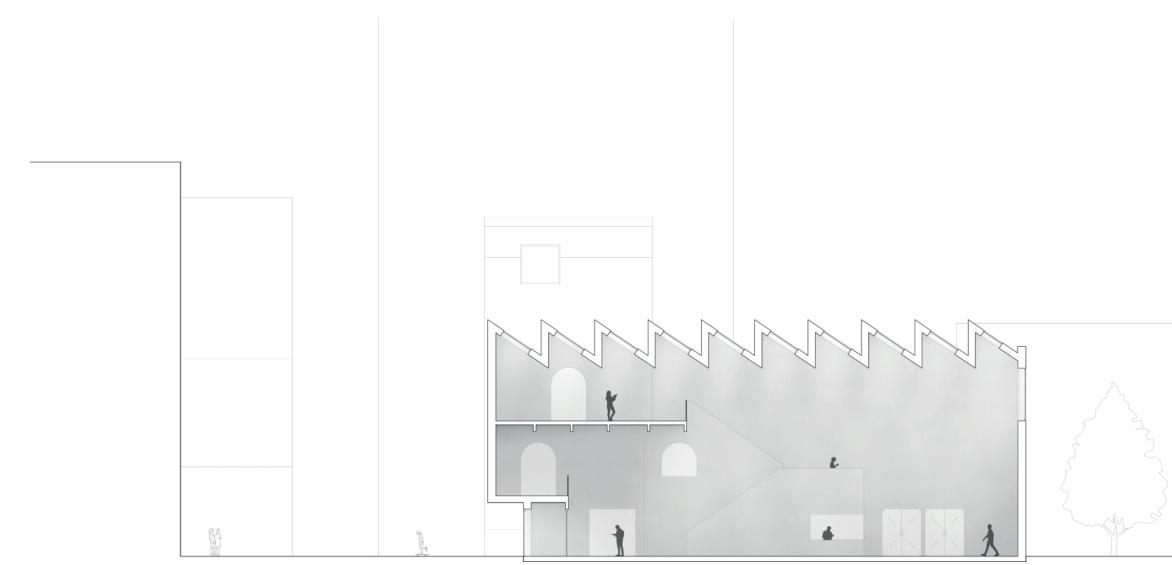








Section D-D' 0 1 2 5 m

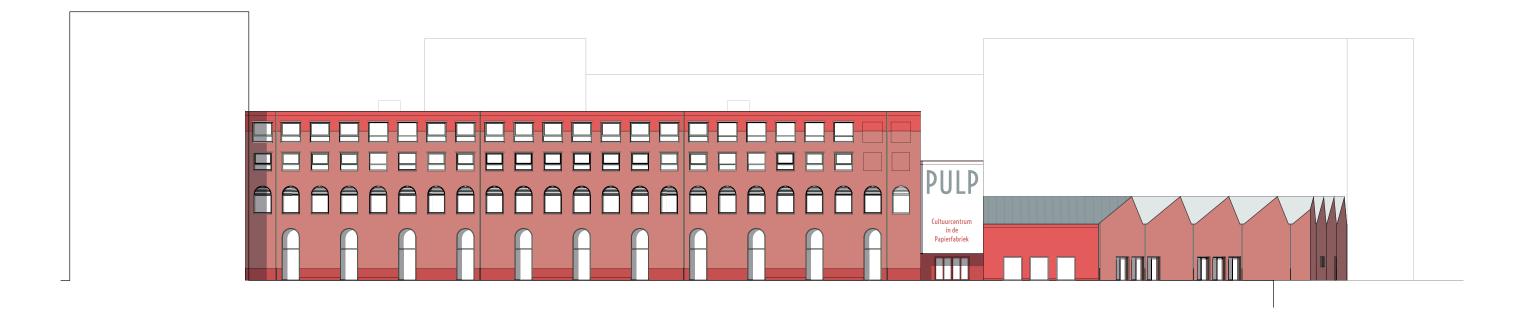


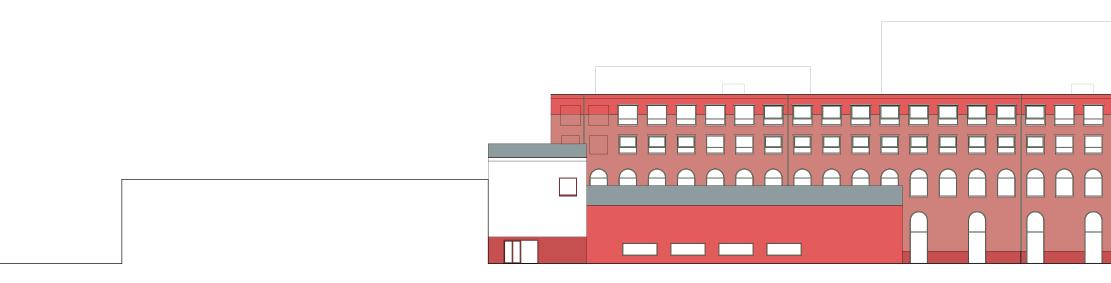






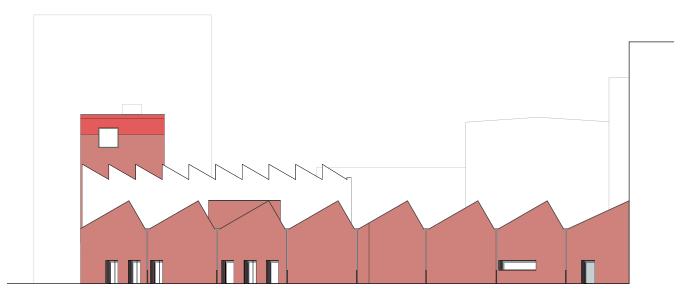
Section F-F" 0 1 2 5 m



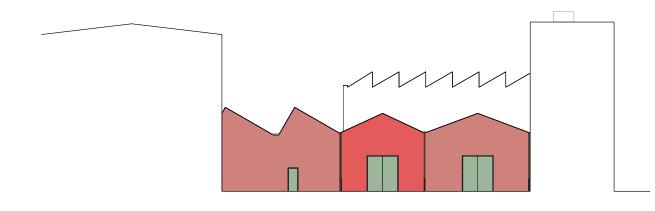


South Elevation





East Elevation



West Elevation