A Productive City is Brewing

Tsvetina Petrova

City
Block
Site
Courtyard
Hall
Restaurant
Housing

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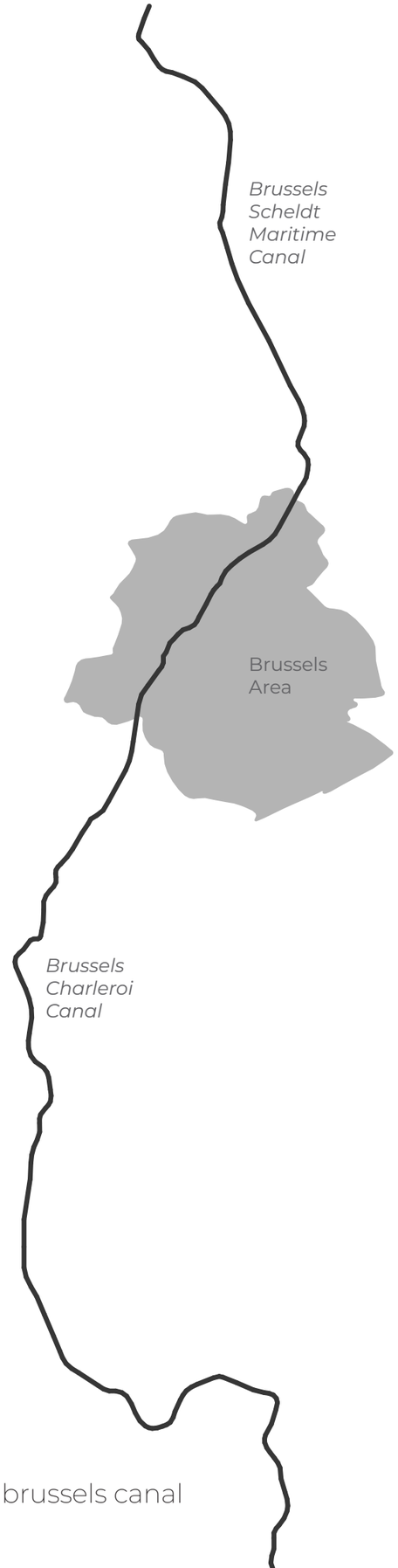
brussels, belgium



zenne river


Brussels
Scheldt
Maritime
Canal
Brussels
Area
Brussels
Charleroi
Canal
brussels canal



an industrial past (1910)



anderlecht: an industrial past



metal foundry pauwels



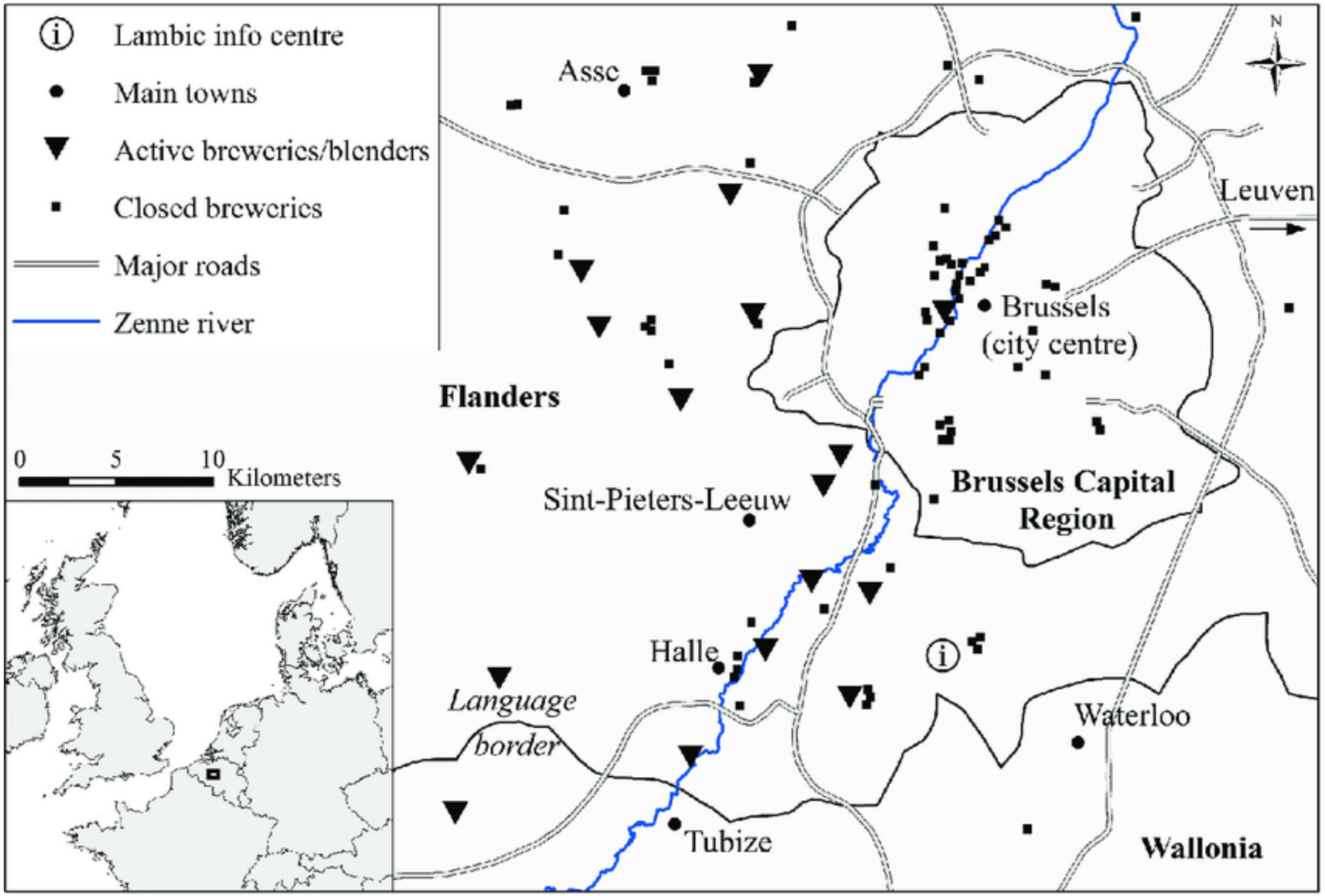
abbatoirs



brasserie cantillon



lambic beer



lambic breweries in brussels region

How to bring back productive spaces in the city?

How to keep the city mixed?

How to reuse what is already there?





2 long halls



L-shaped old factory



large industrial building



large industrial building

Residential

Housing

Production

Lambic Brewery

Hospitality

Social Restaurant

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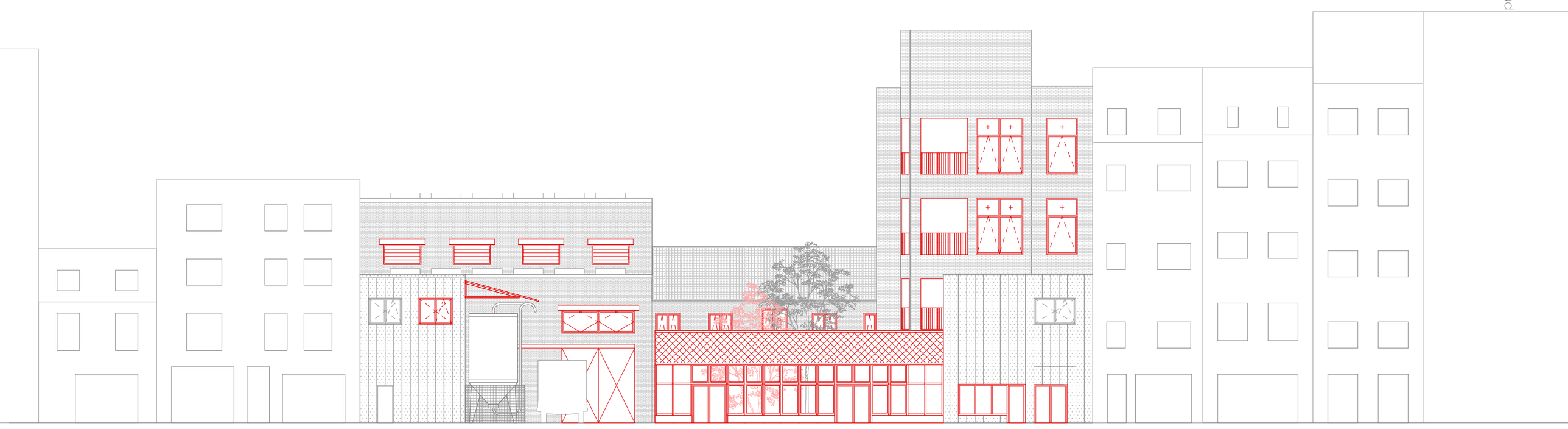
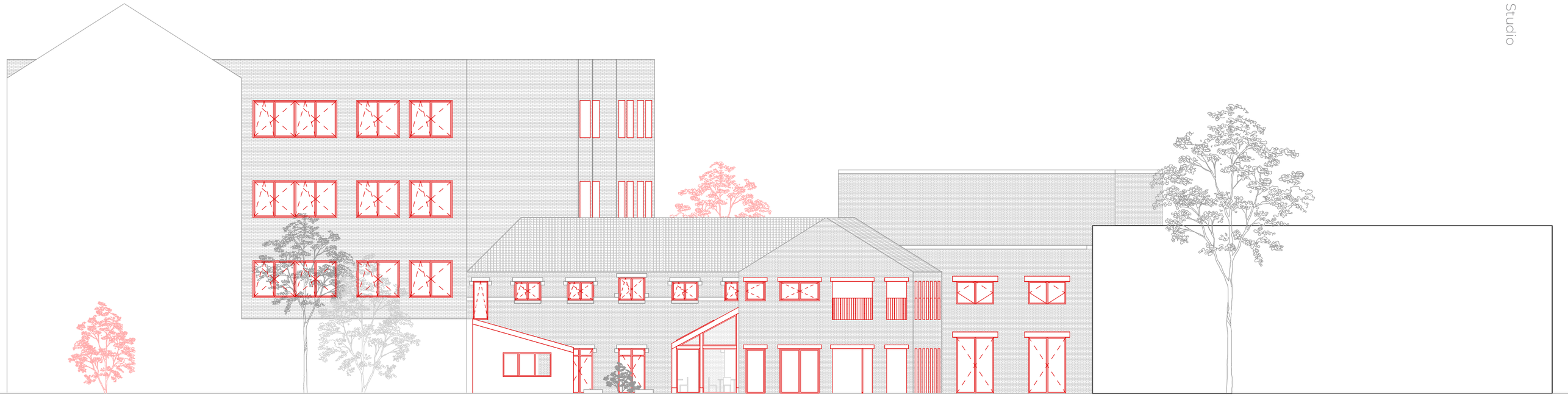
site



elevation southwest



elevation northeast



elevation southeast

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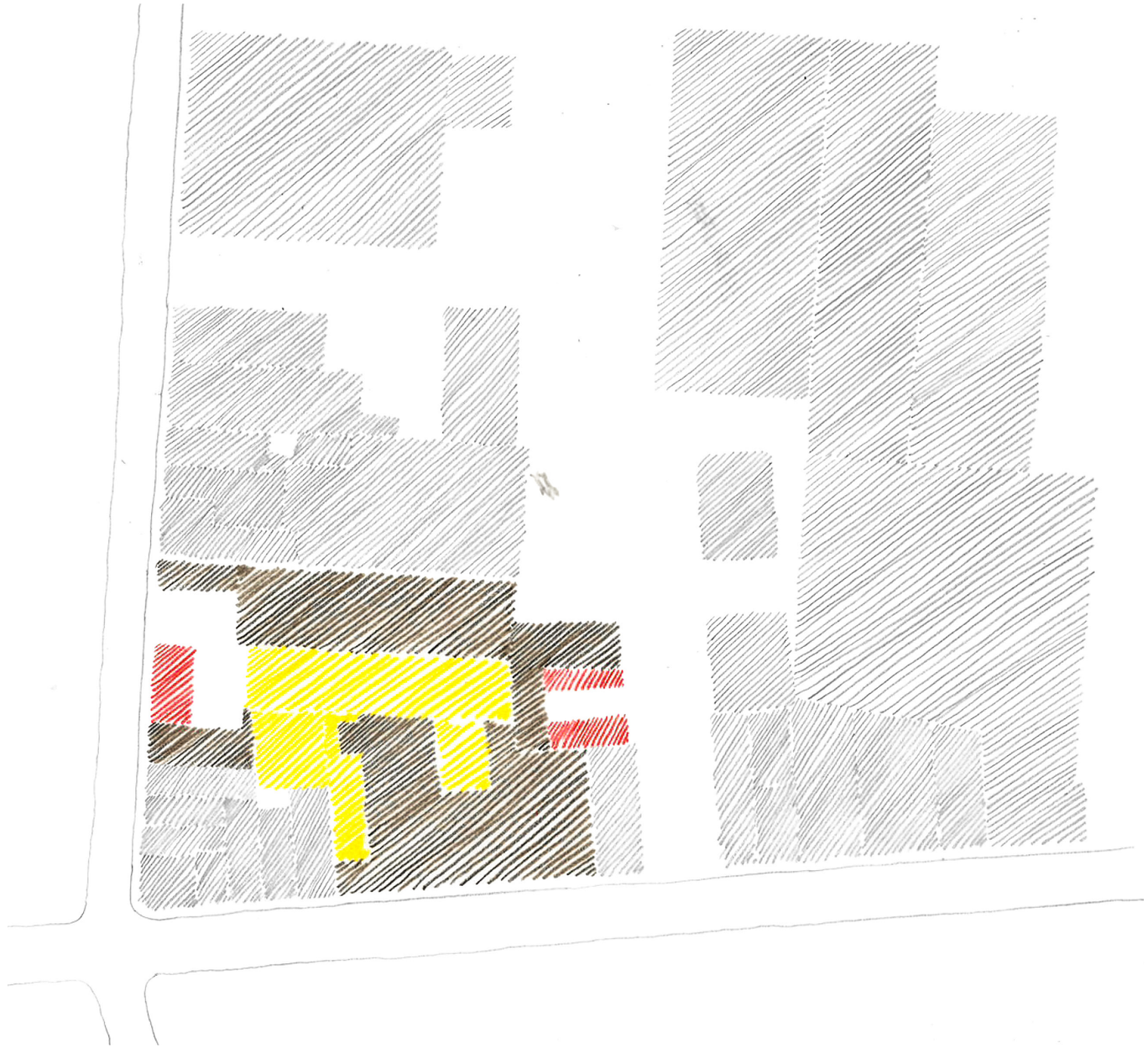


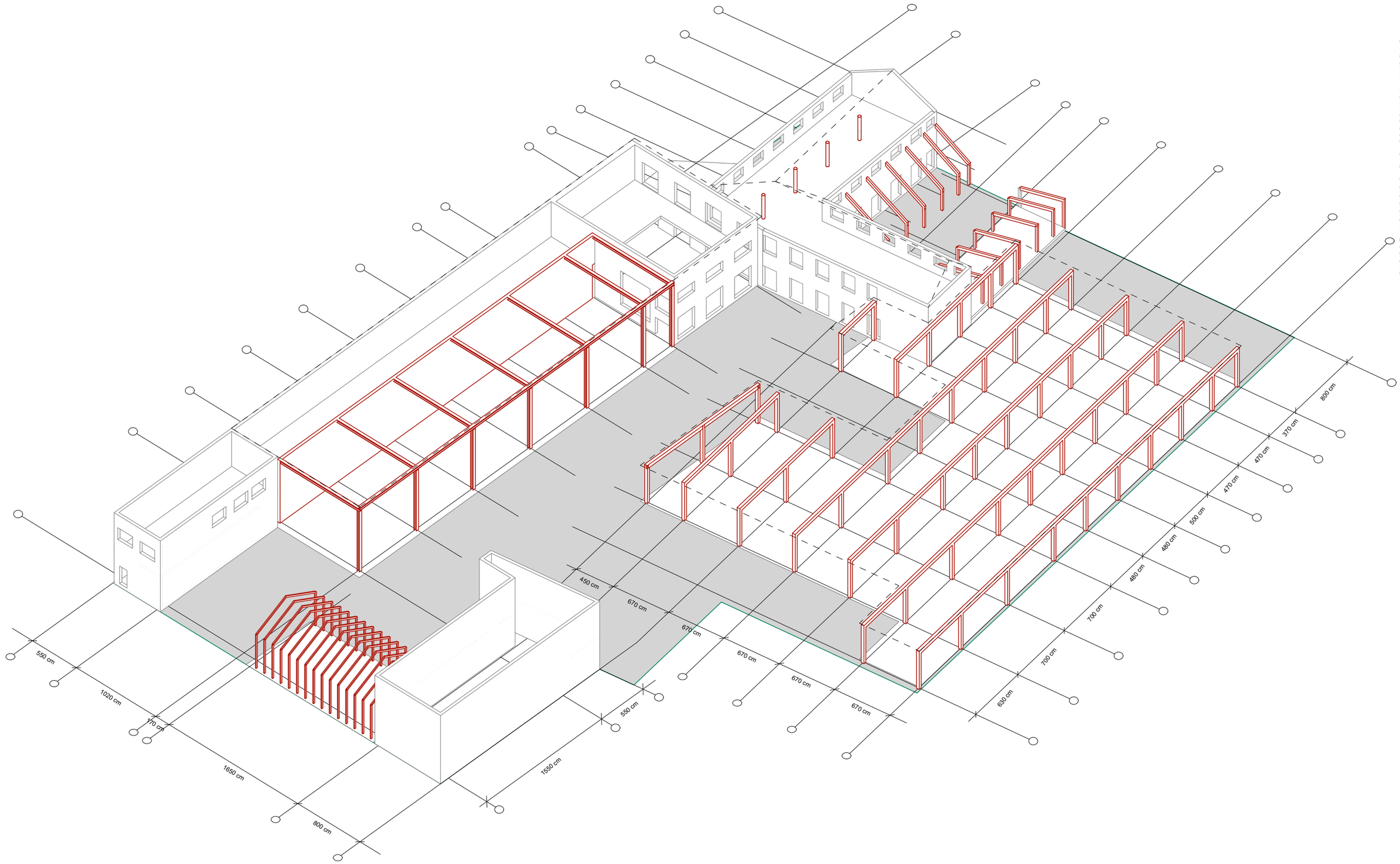
demolish (yellow), new (red), keep (black)



connection street - courtyard - linear park



courtyard accessibility



structural diagram


A
B
C
D
E
AL
BL
CL
DL
EL
ground floor plan

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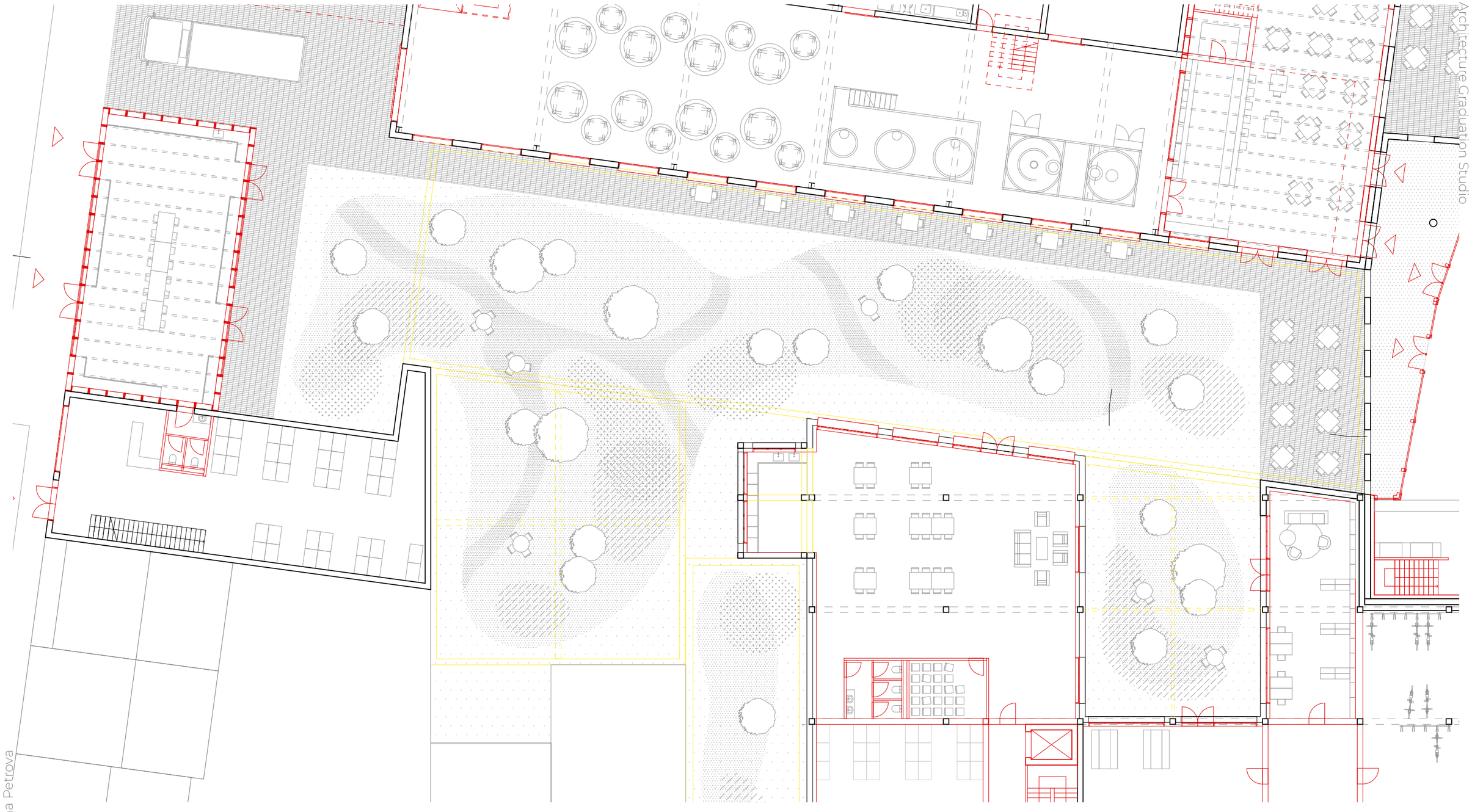
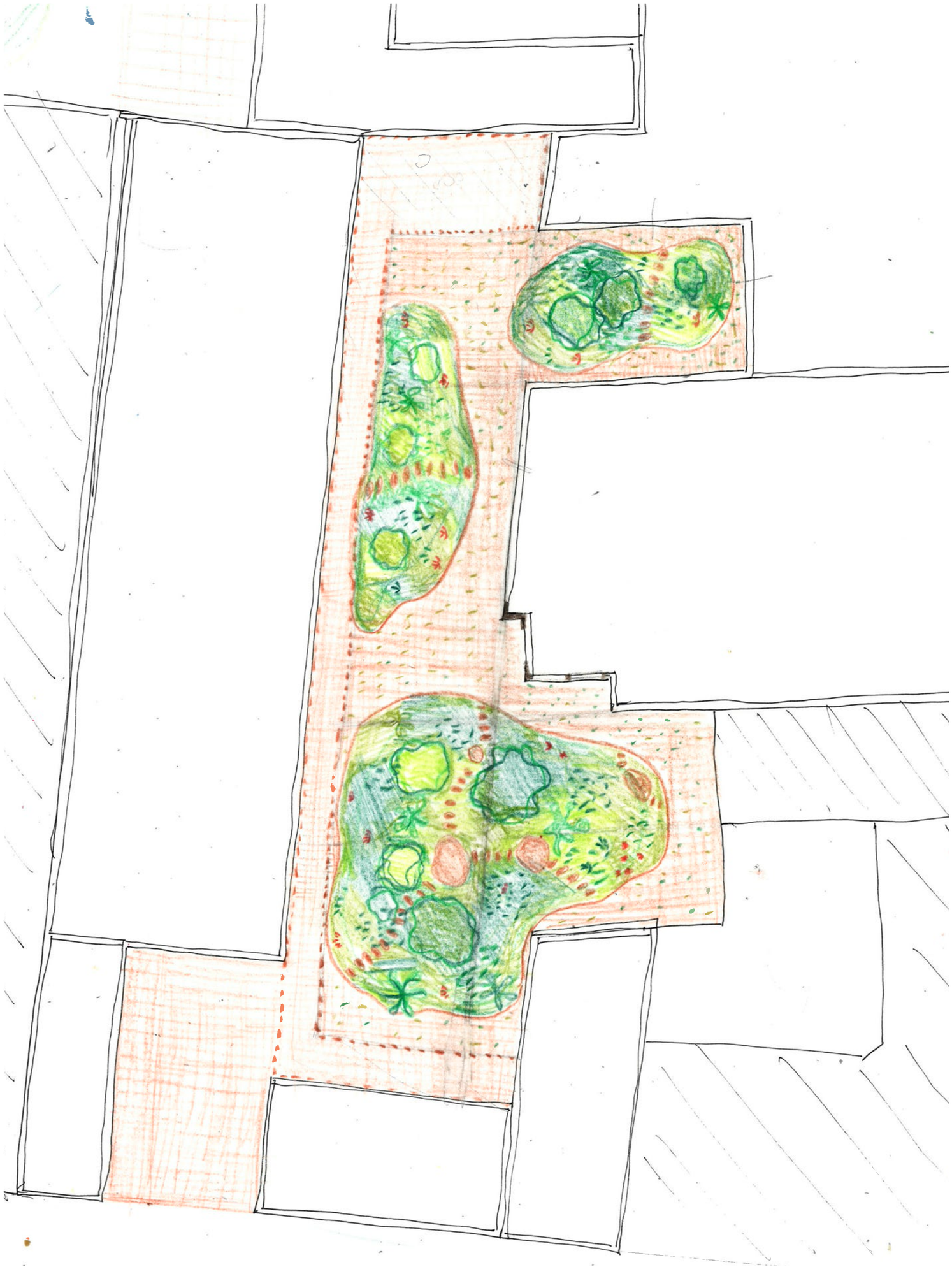
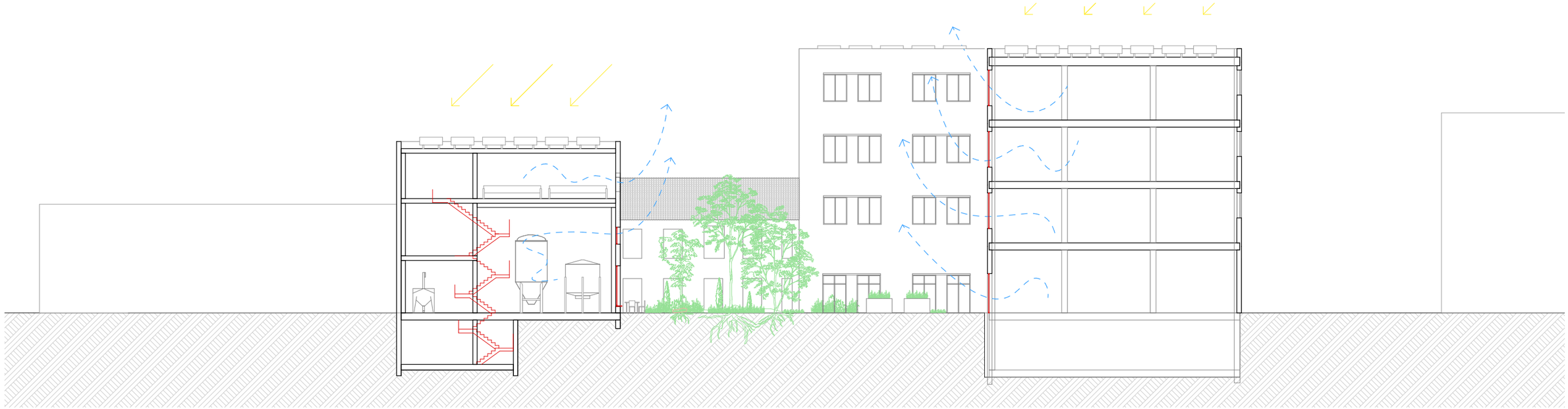


courtyard

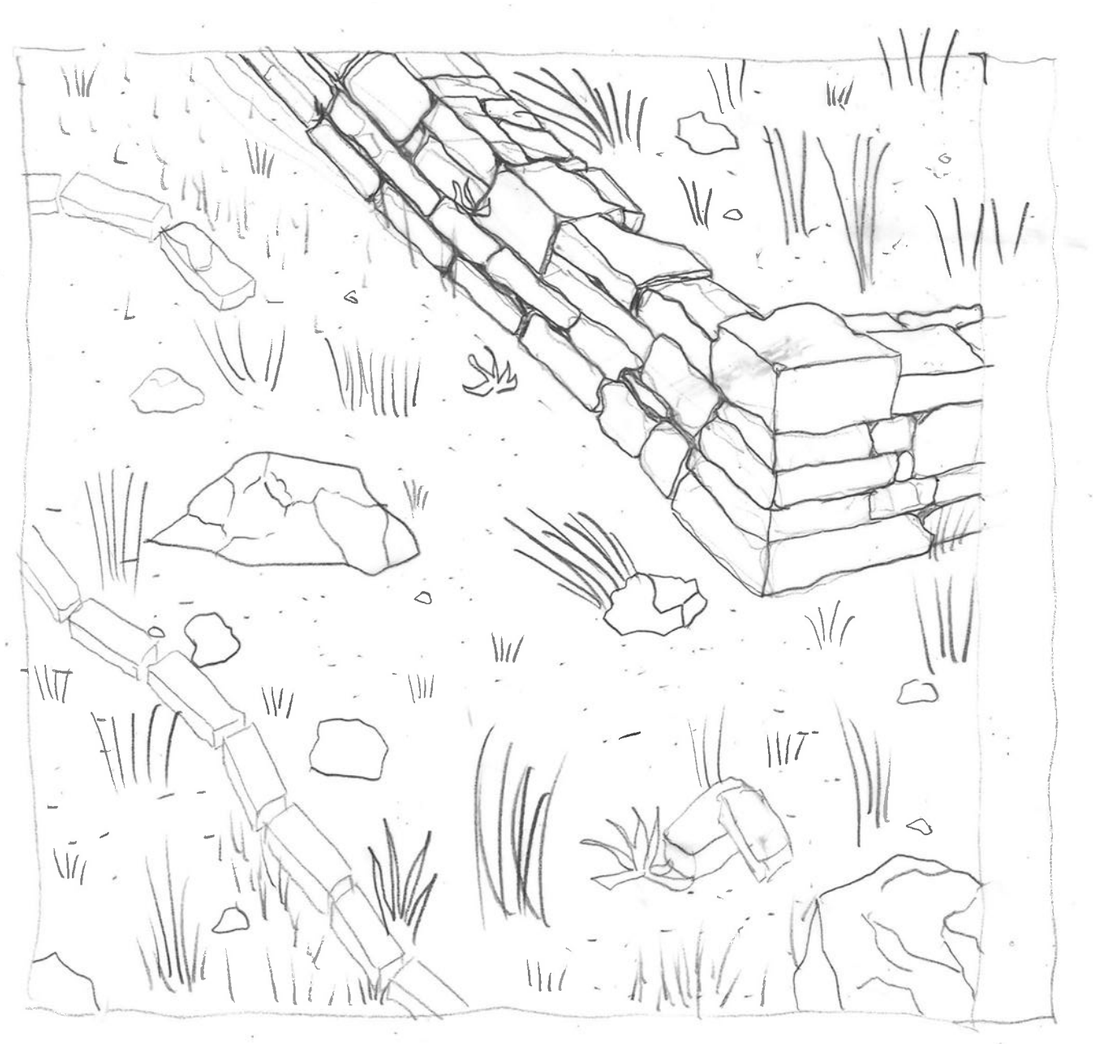
Urban Architecture Graduation Studio
Tsvetina Petrova



courtyard



section D-D climate diagram



rubble as landscpae material



section B-B



courtyard

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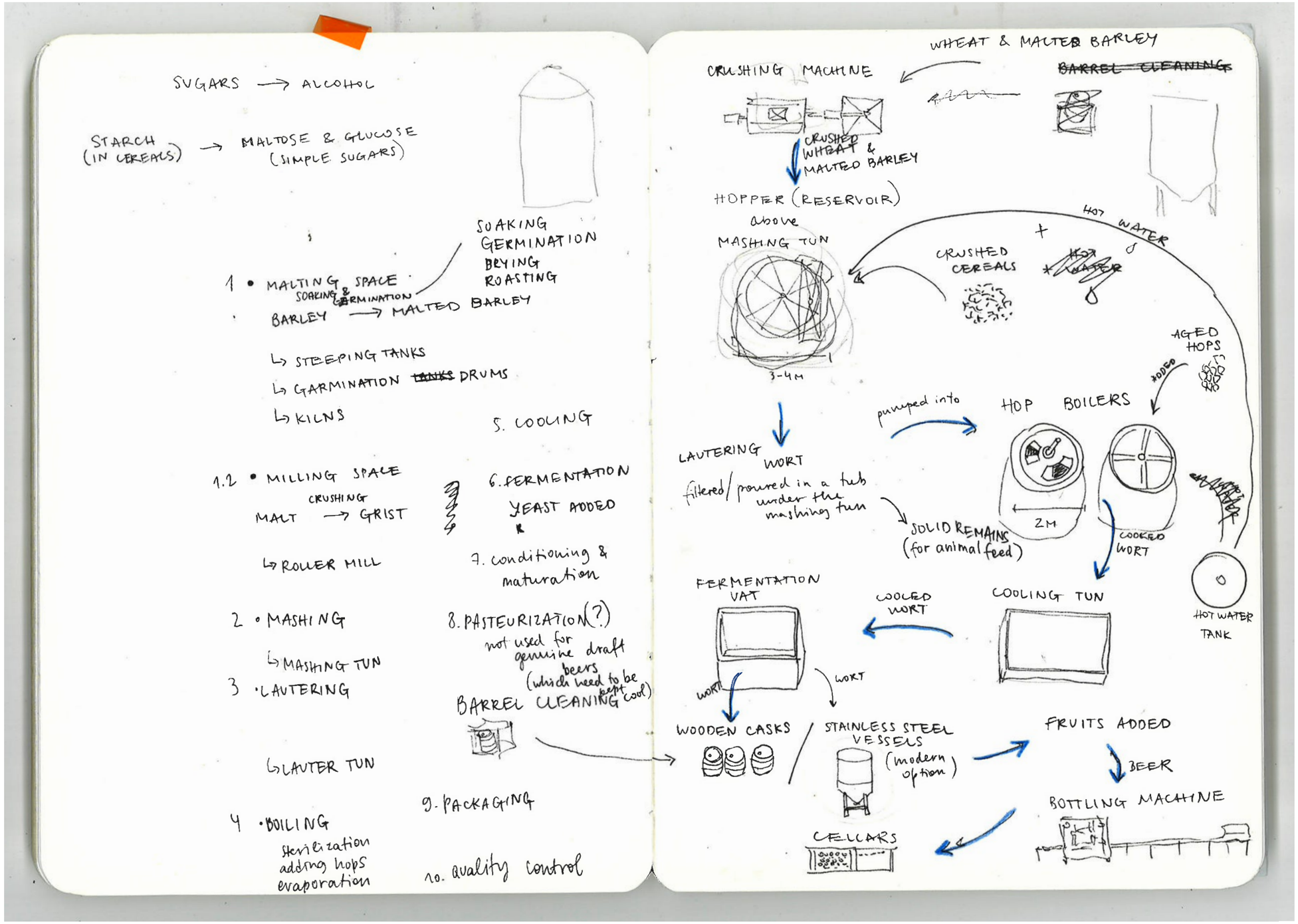
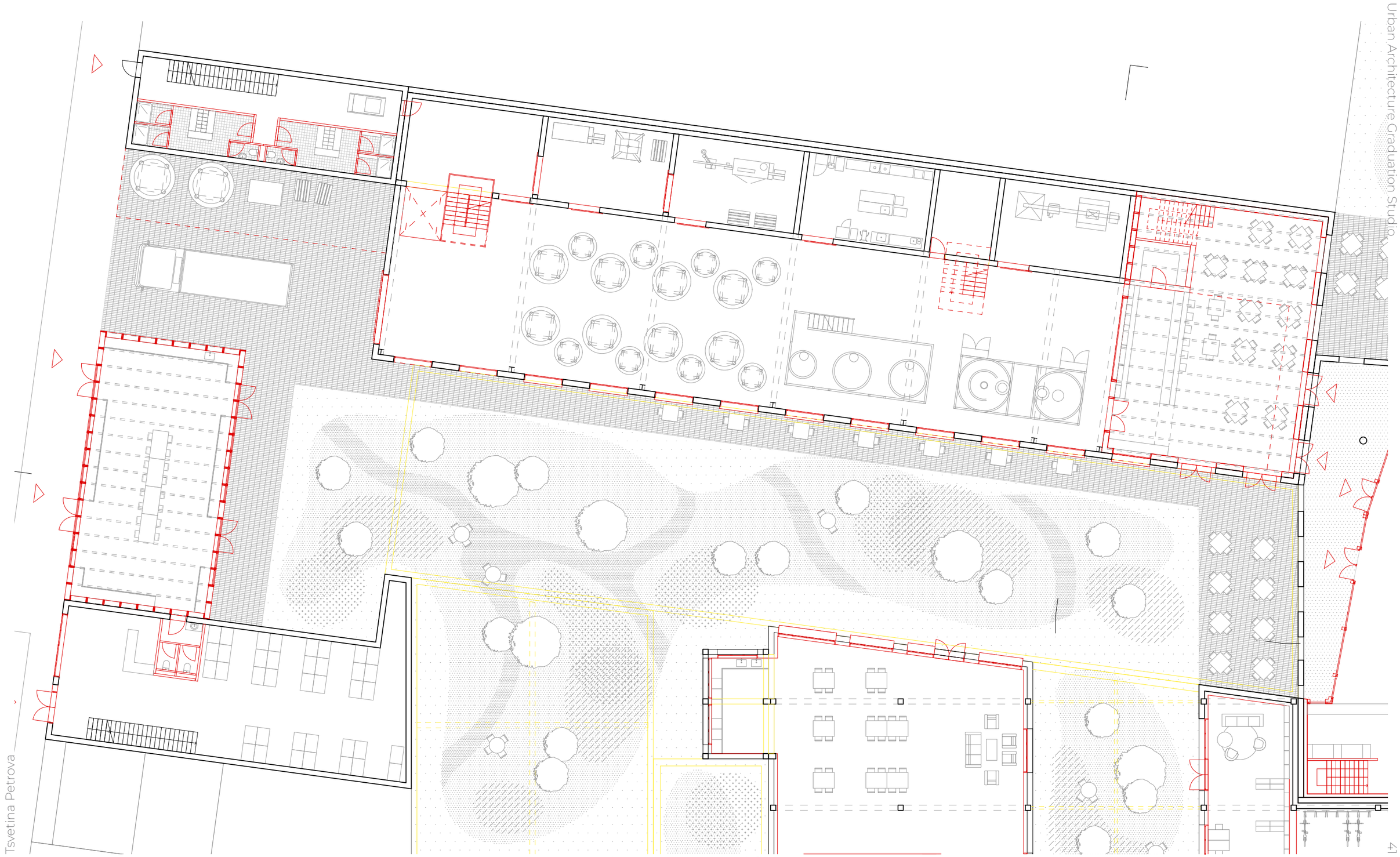
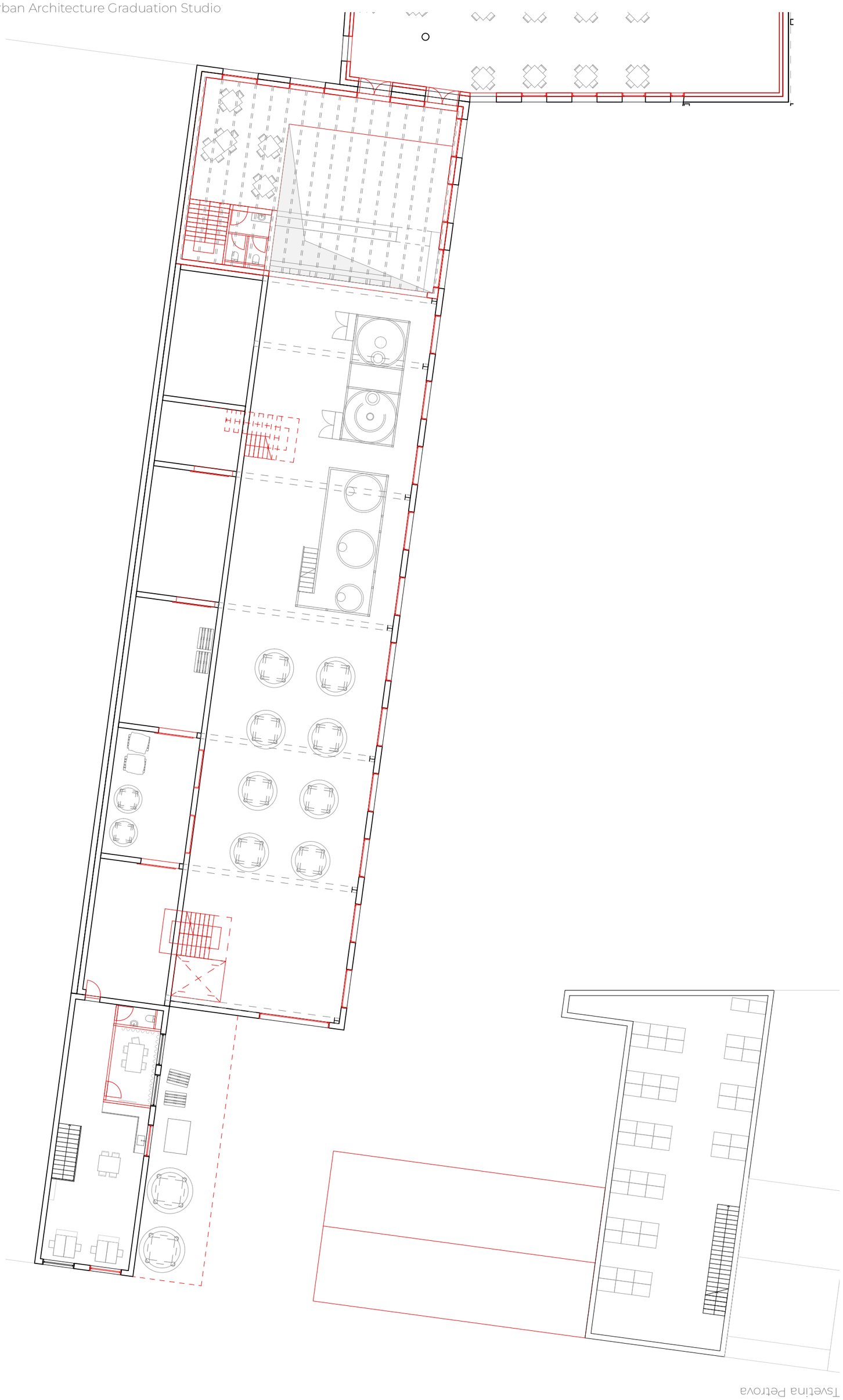


brewing process



brewery ground floor



brewery first floor

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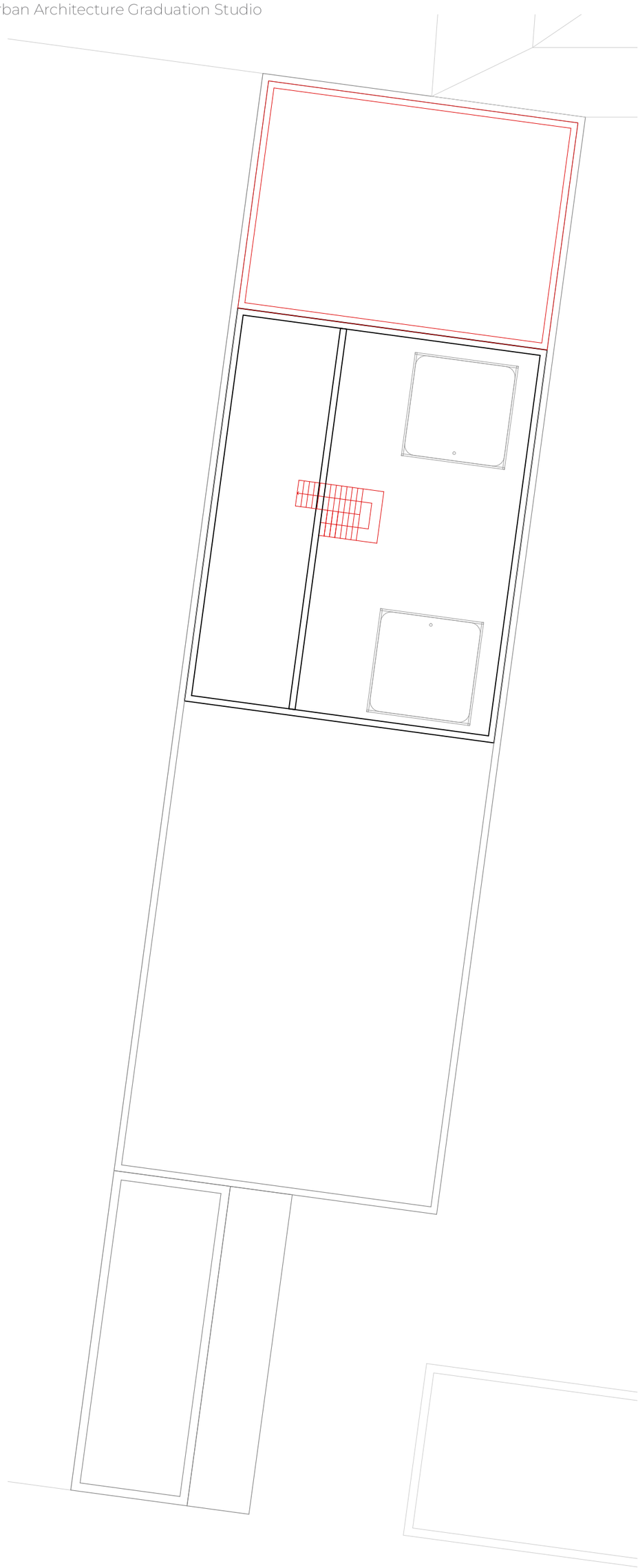


brewery second floor



brewery facade



brewery facade



section C-C



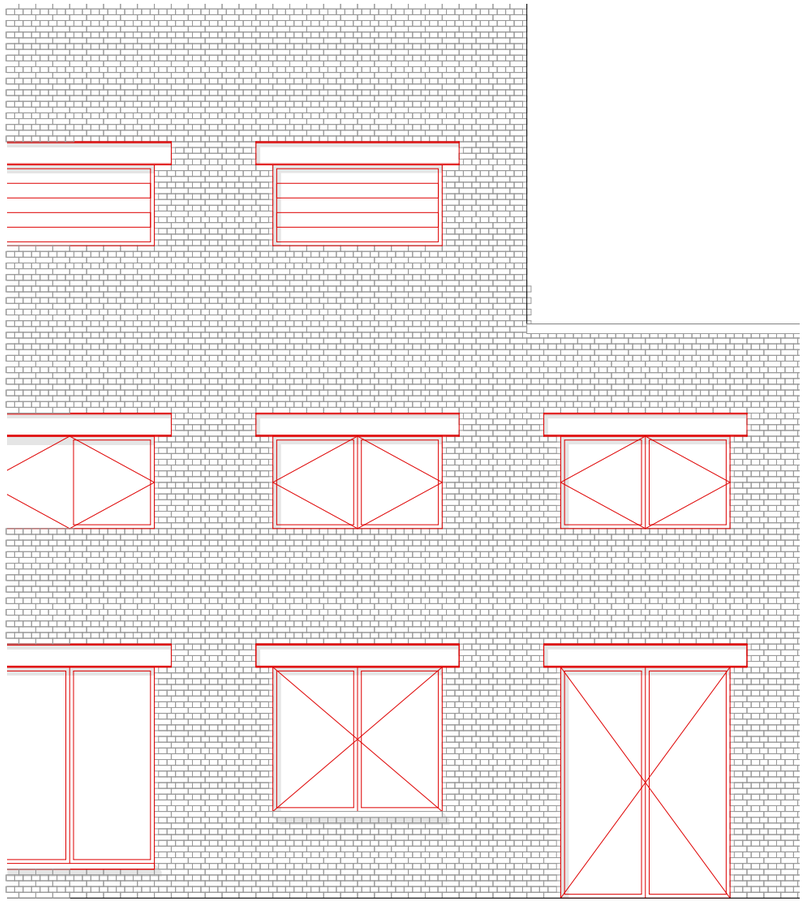
section B-B

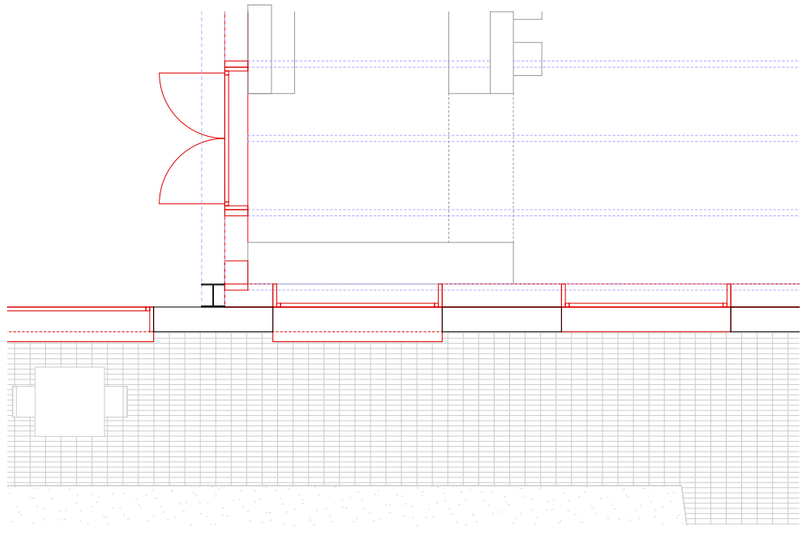


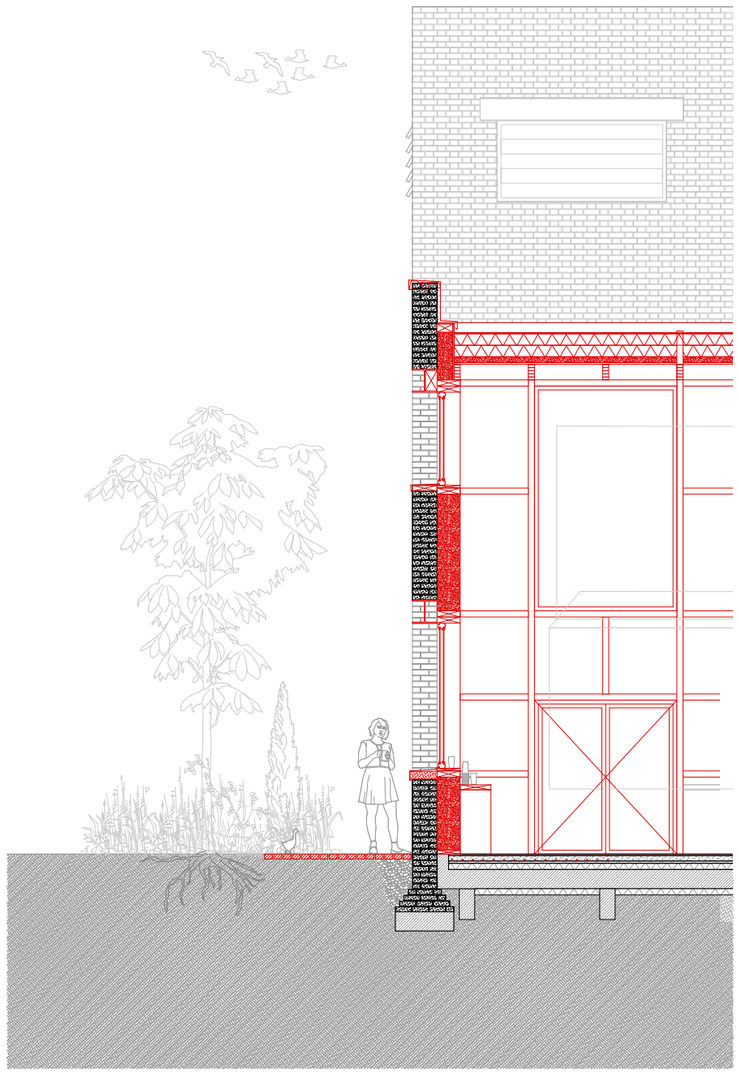
brewery interior



brewery interior







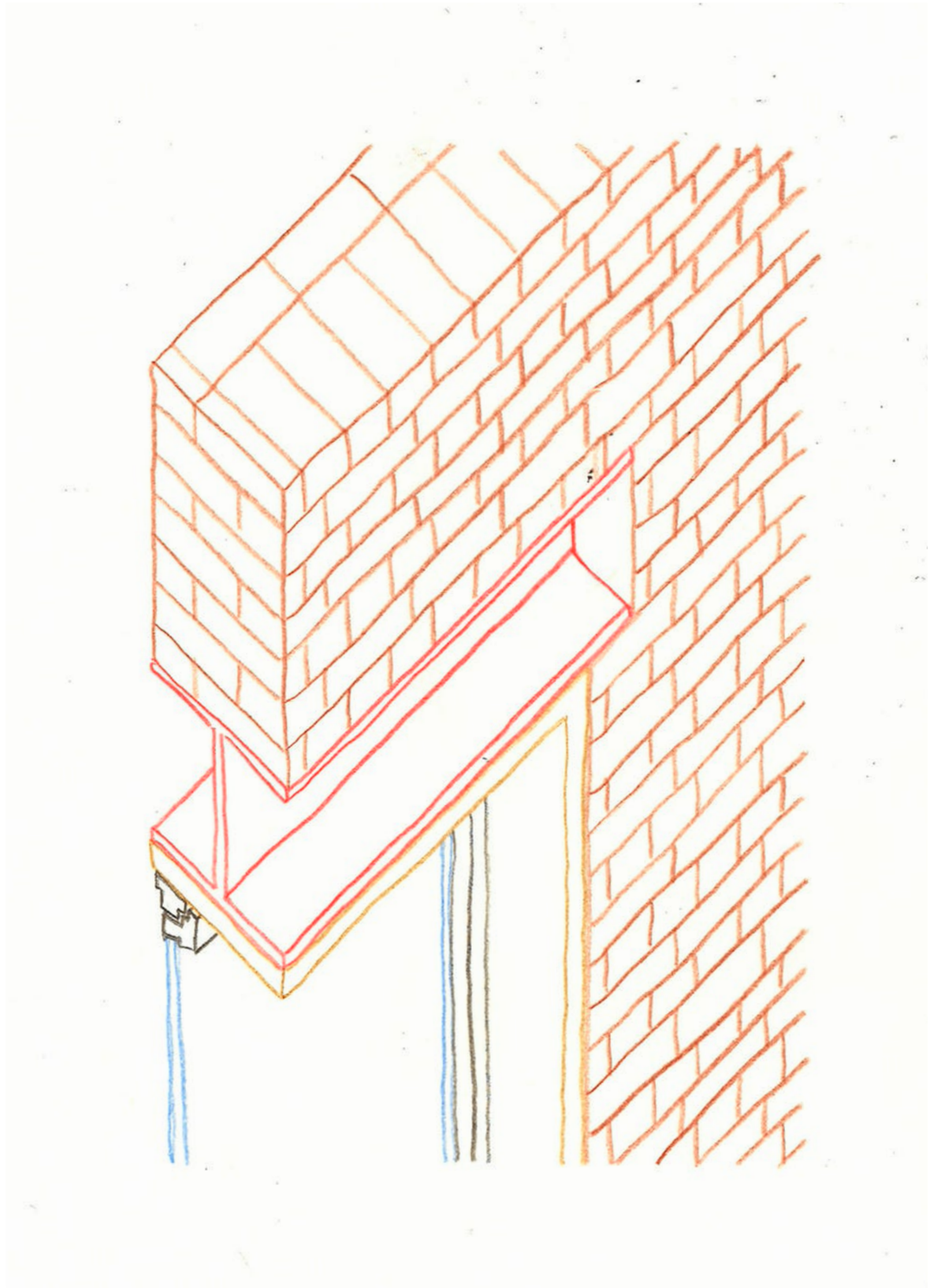
window:
HEA steel beam, reused
triple glazing in 78 mm pine frame

wall construction:
210/100/65 mm brick masonry wall, existing
hempcrete wall 300mm with timber structure
PCS natural plaster finish 5mm

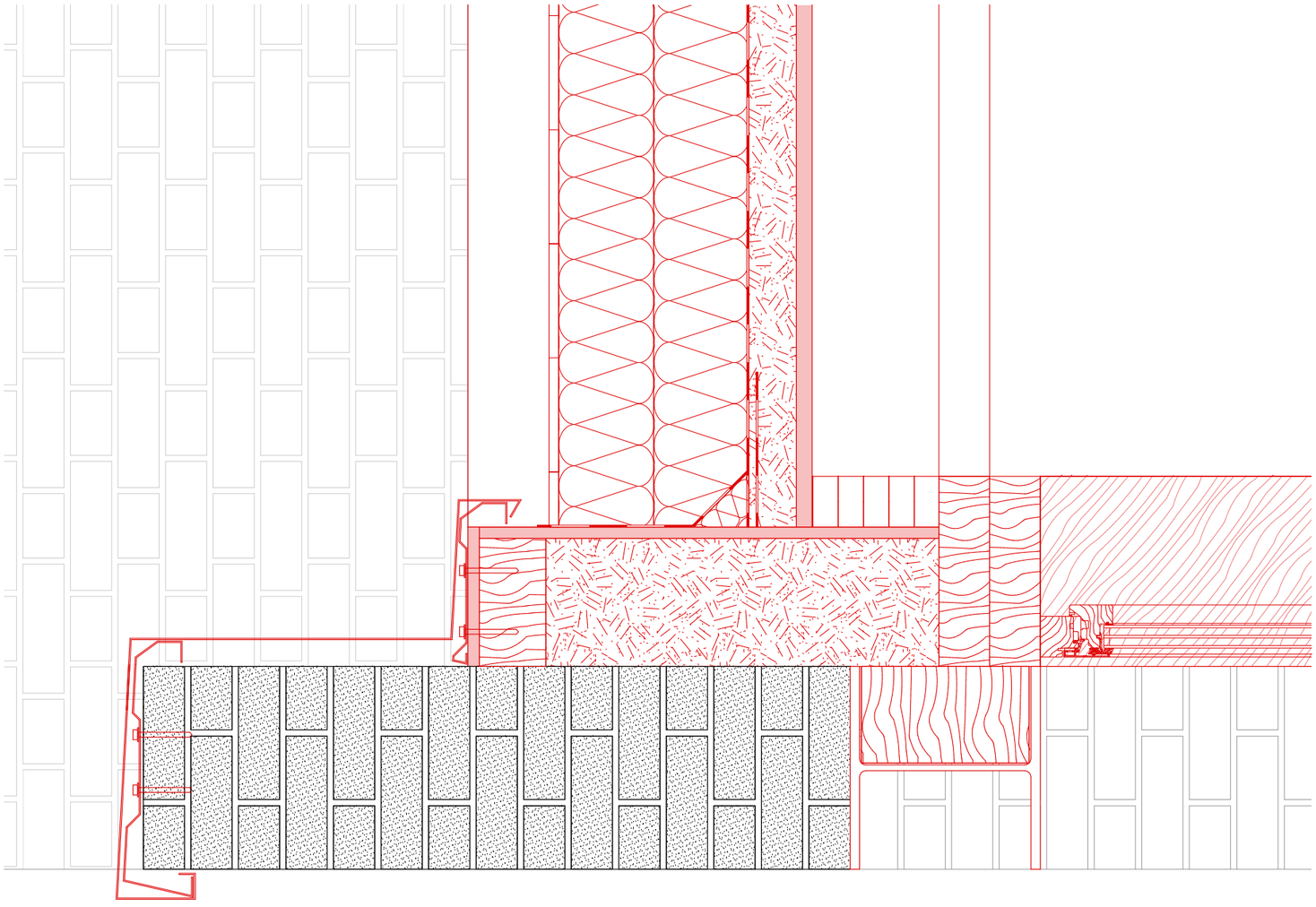
ceiling construction:
crushed stone 18mm
silver fir sheating 30mm
hemp thermal insulation 200mm
woodfibre insulation 300mm
waterproofing membrane
gypsum board 12,5mm
plywood board 12mm
timber beams 8/200 mm

floor construction:
floor boards, recycled 18mm
inlaid soft wood fibre panel with underfloor heating 35mm
soft wood fibre impact soundproofing 35mm
crushed stone 18mm
silver fir sheating 30mm
hemp thermal insulation 200mm
waterproofing membrane
concrete slab 250mm
insulation
foundations

fragment



steel beams from demolition reused as lintels



detail

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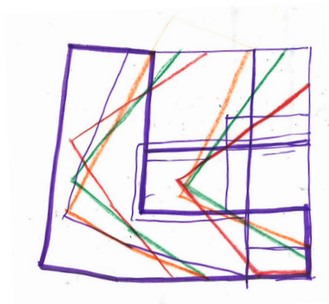
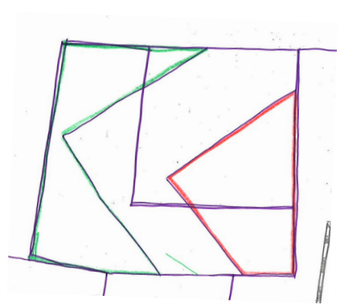
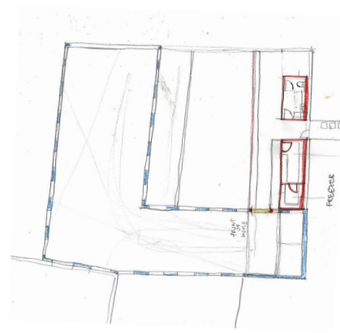
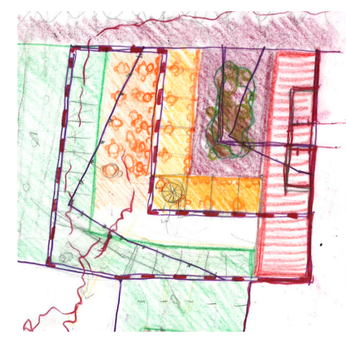
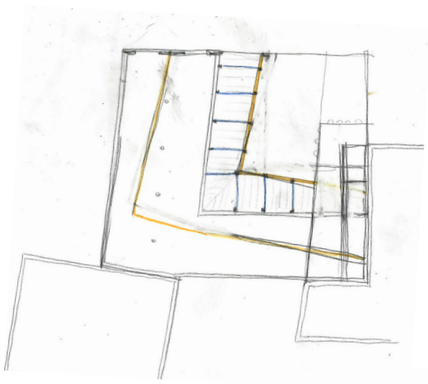
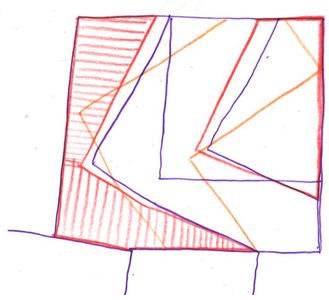
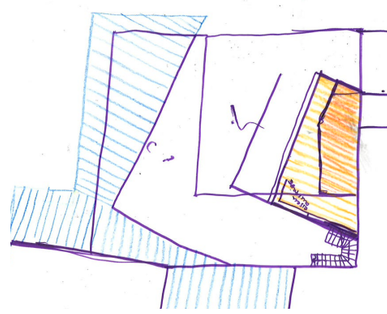
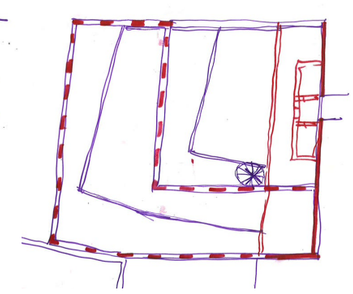
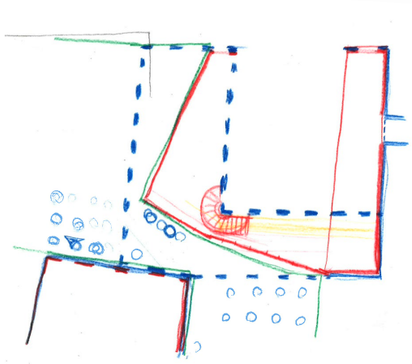
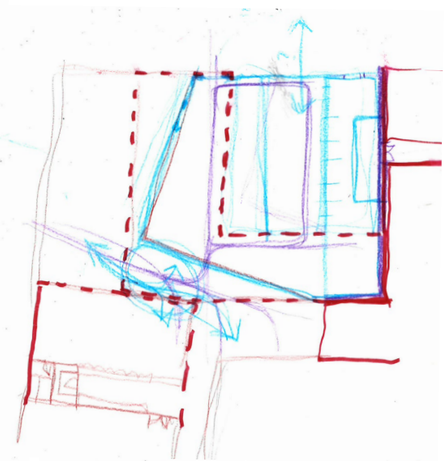
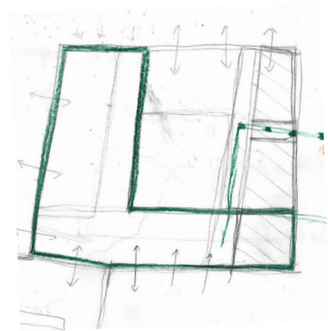
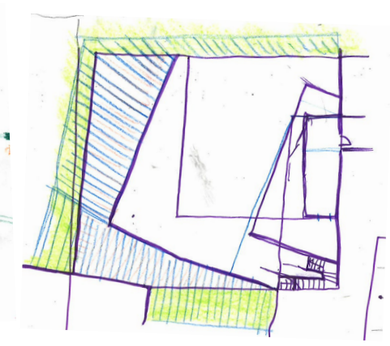
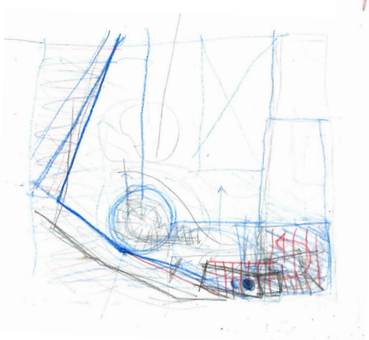
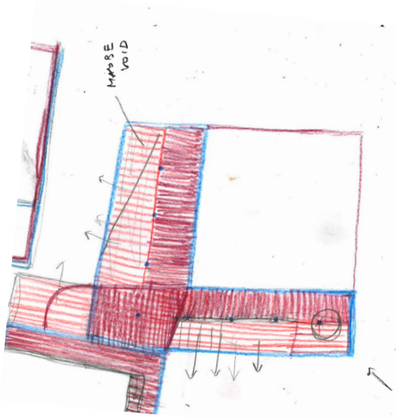
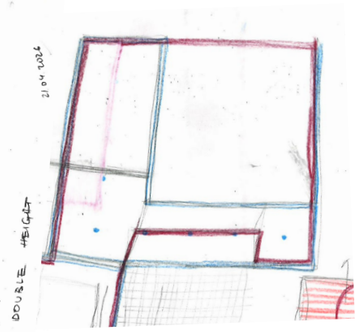
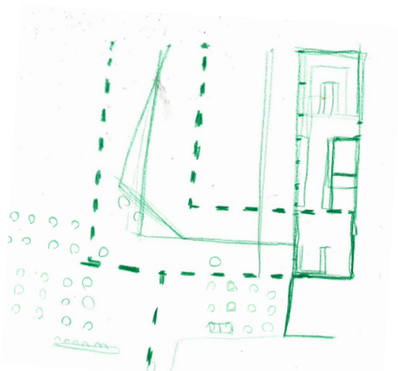
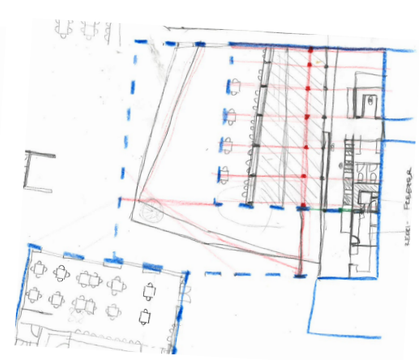
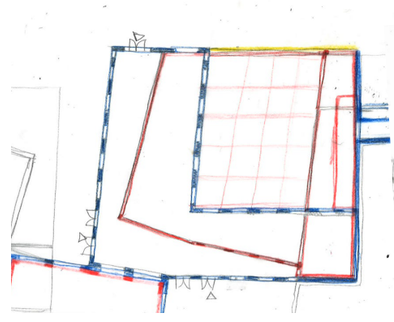
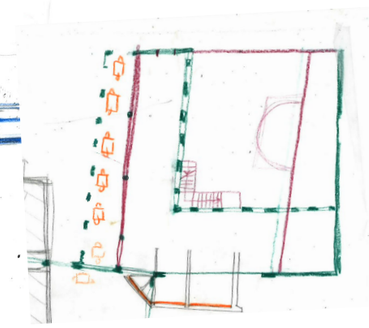
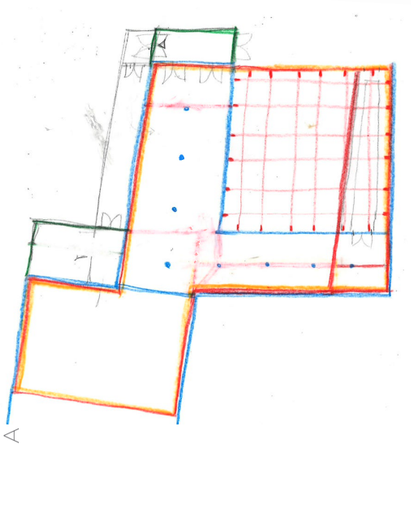
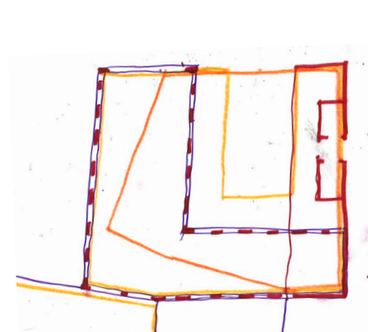
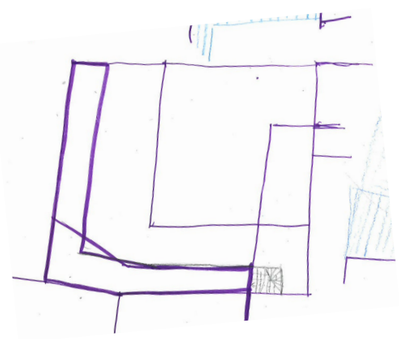
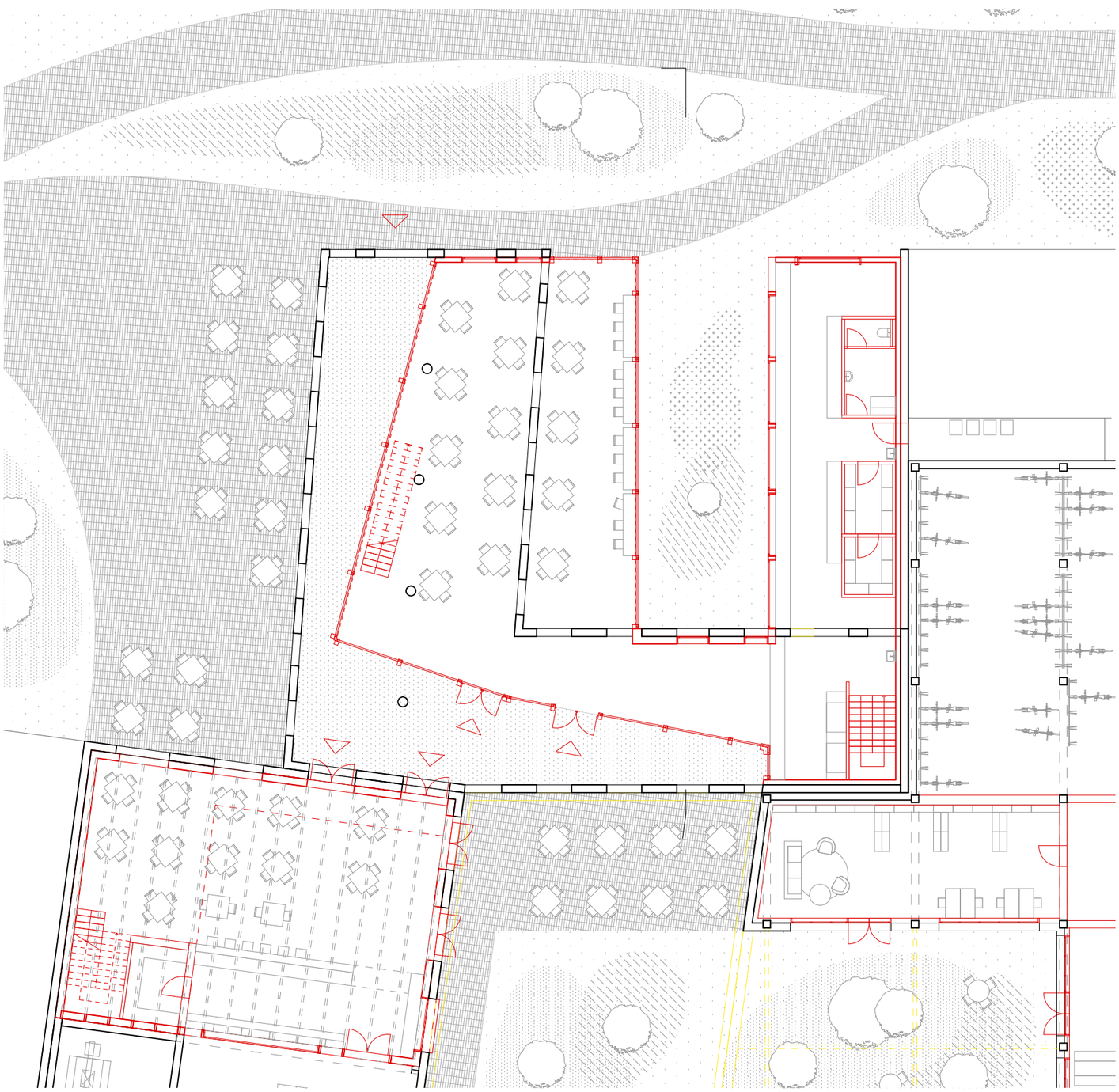














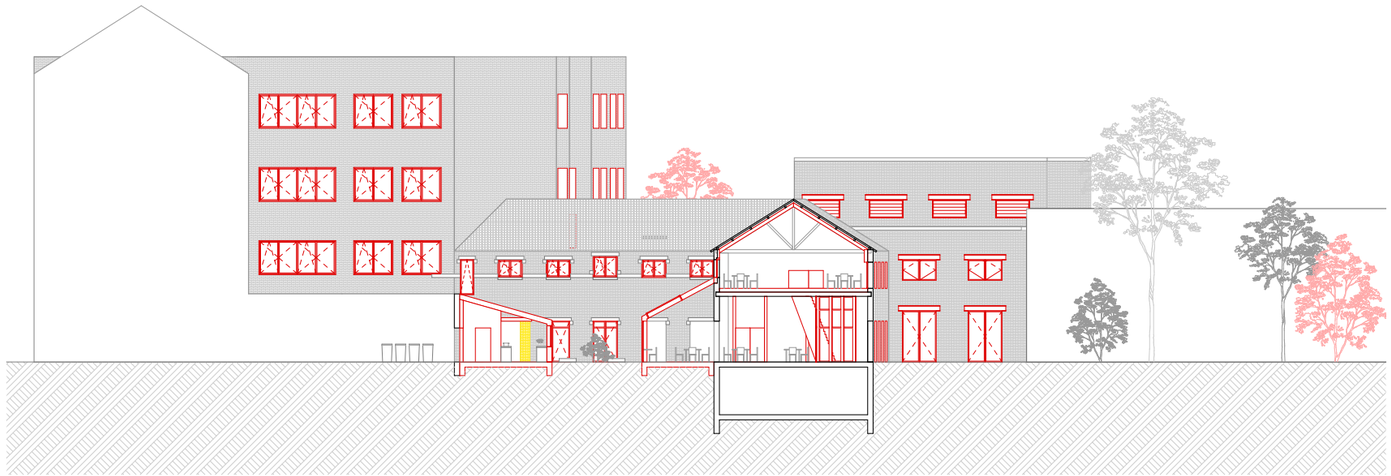








process sketches



restaurant ground floor

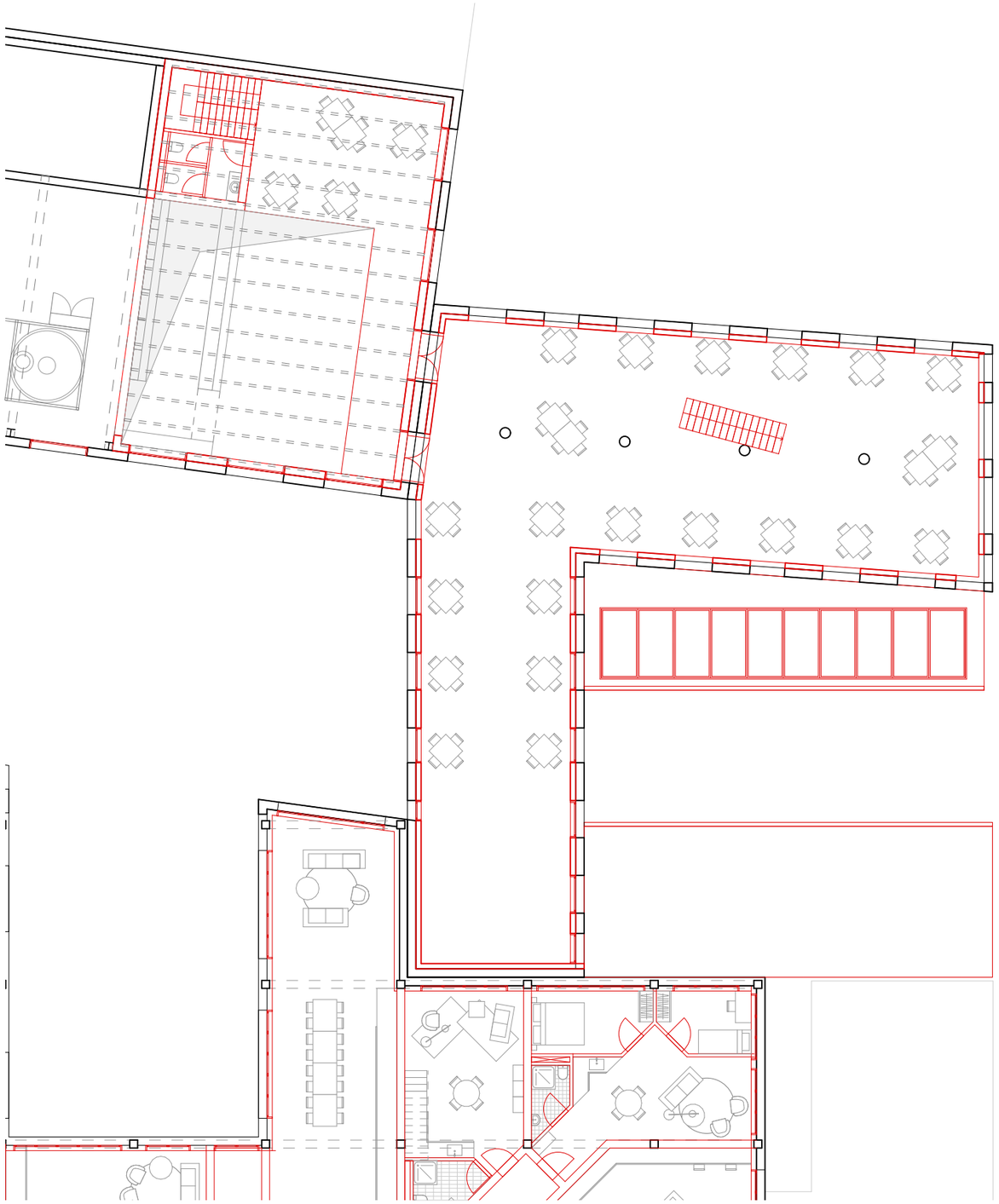




sections E-E and partial section B-B



social restaurant



restaurant first floor

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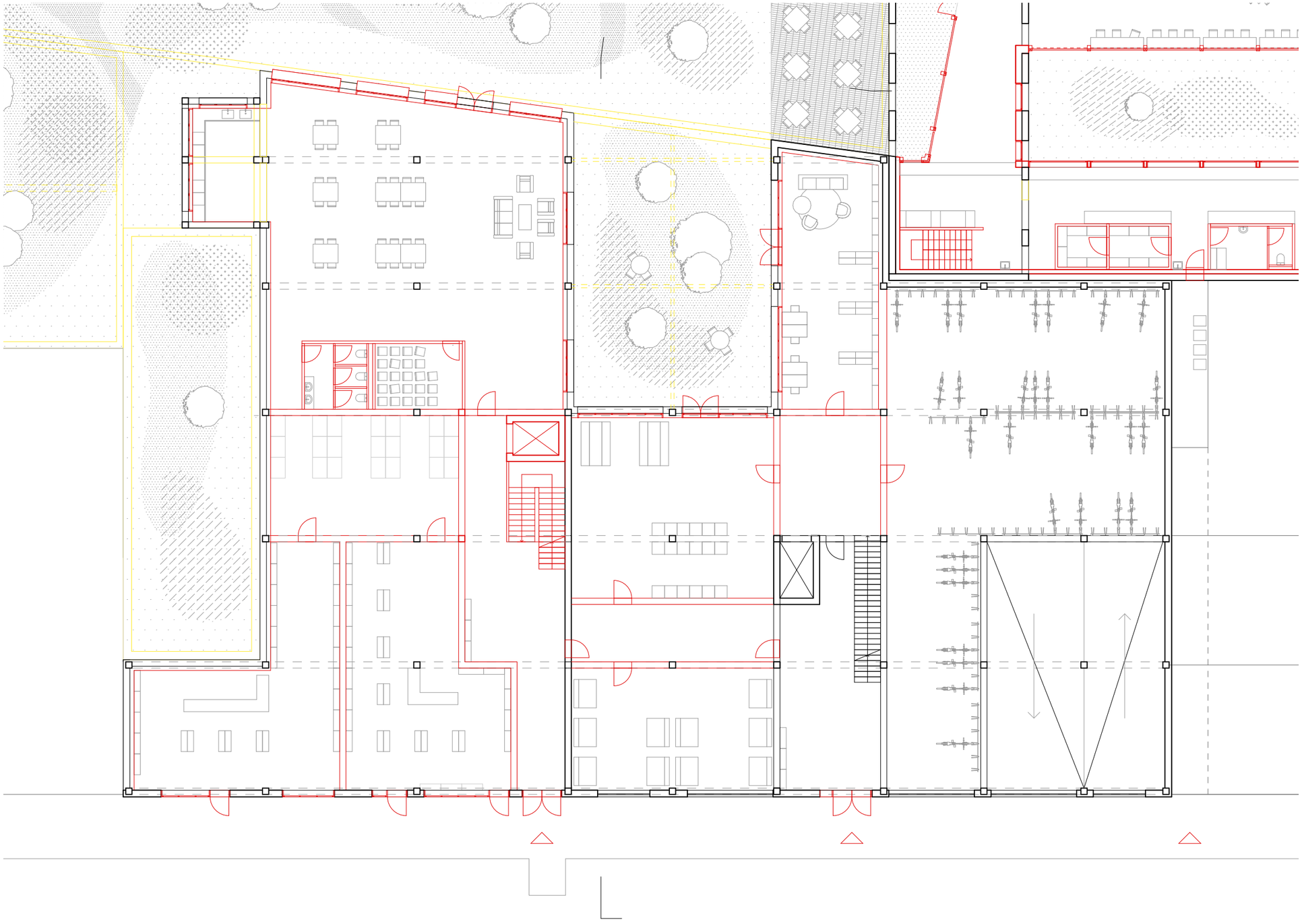
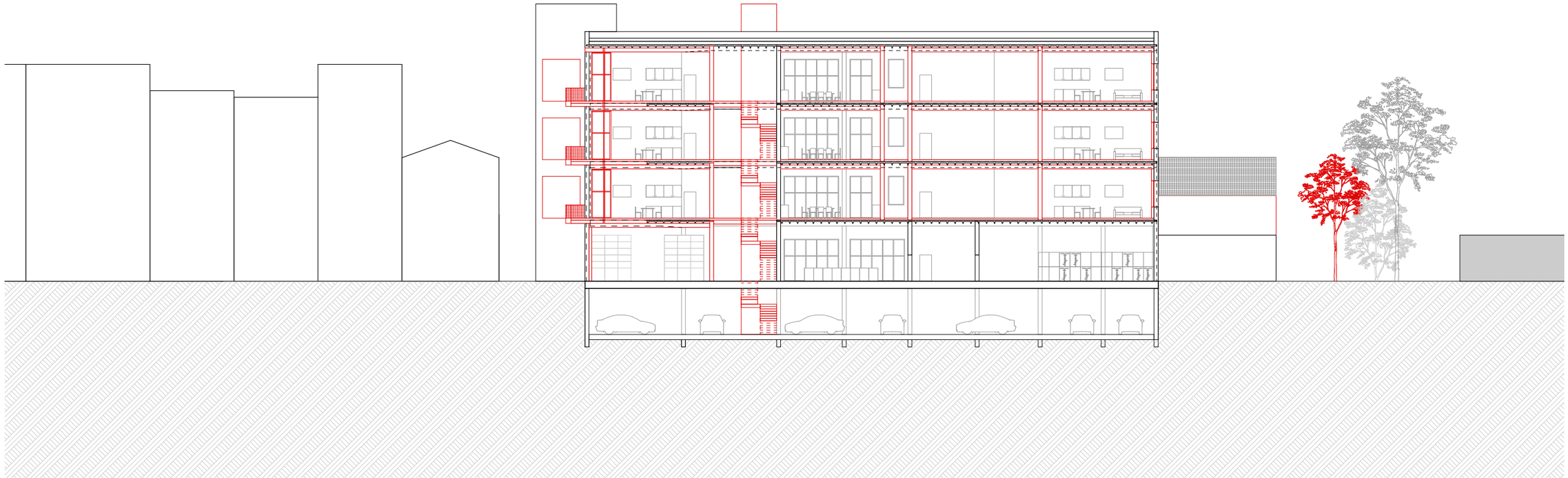
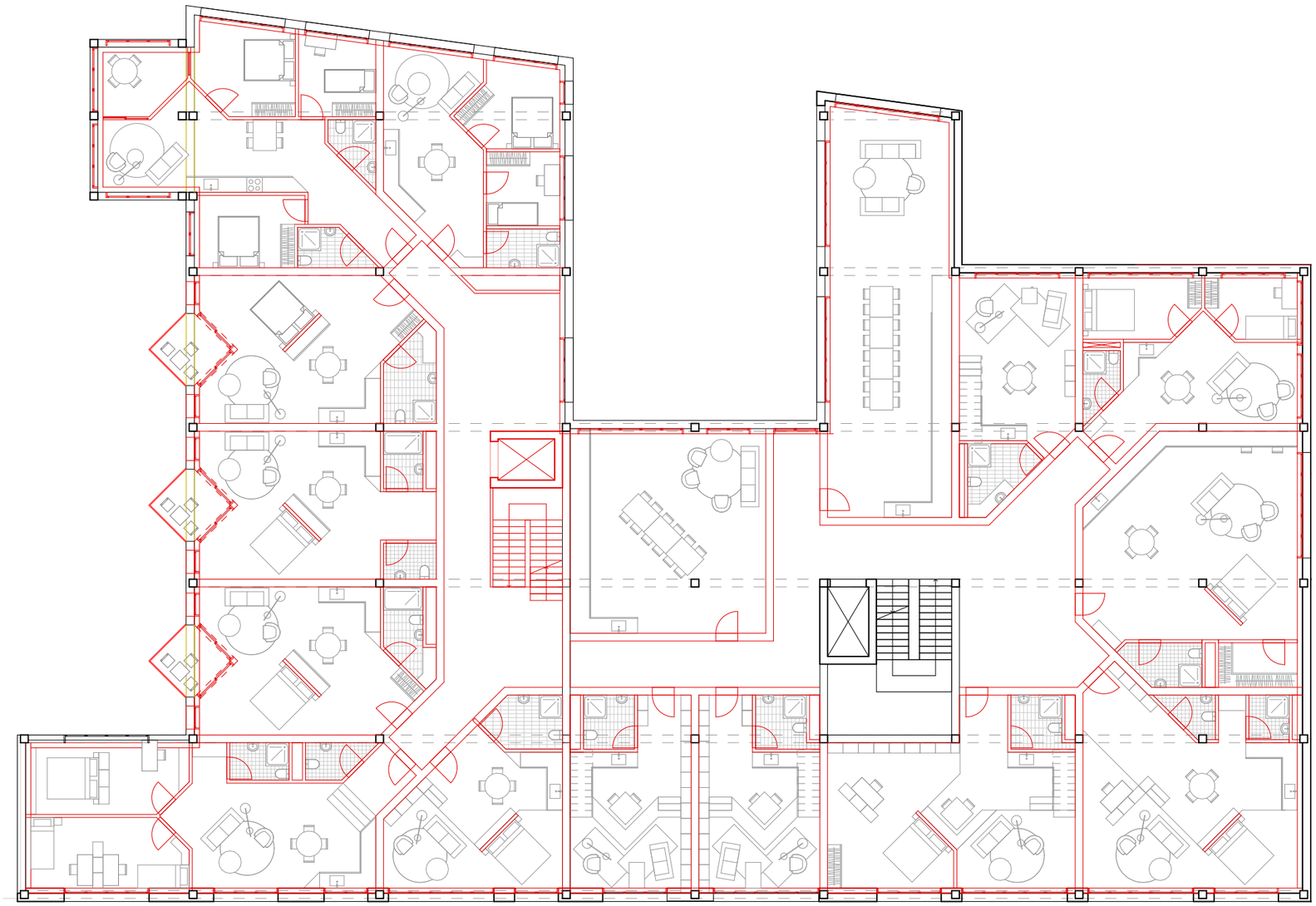


housing

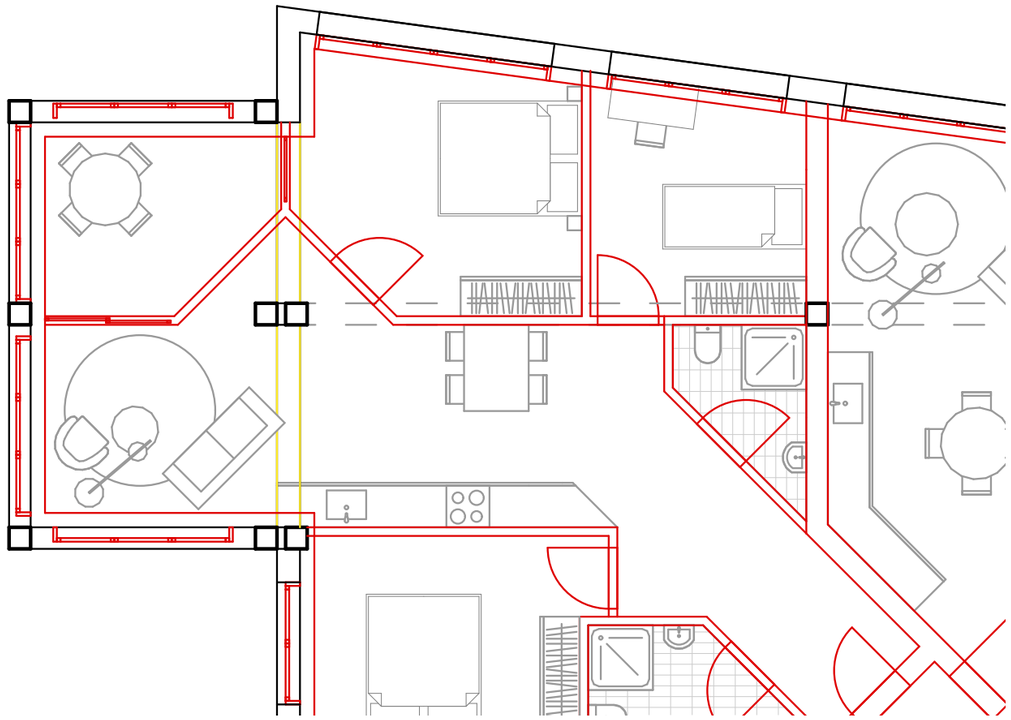
Tsvetina Petrova

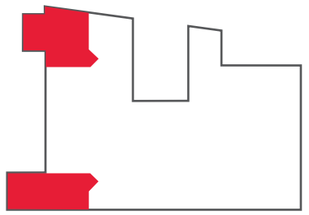


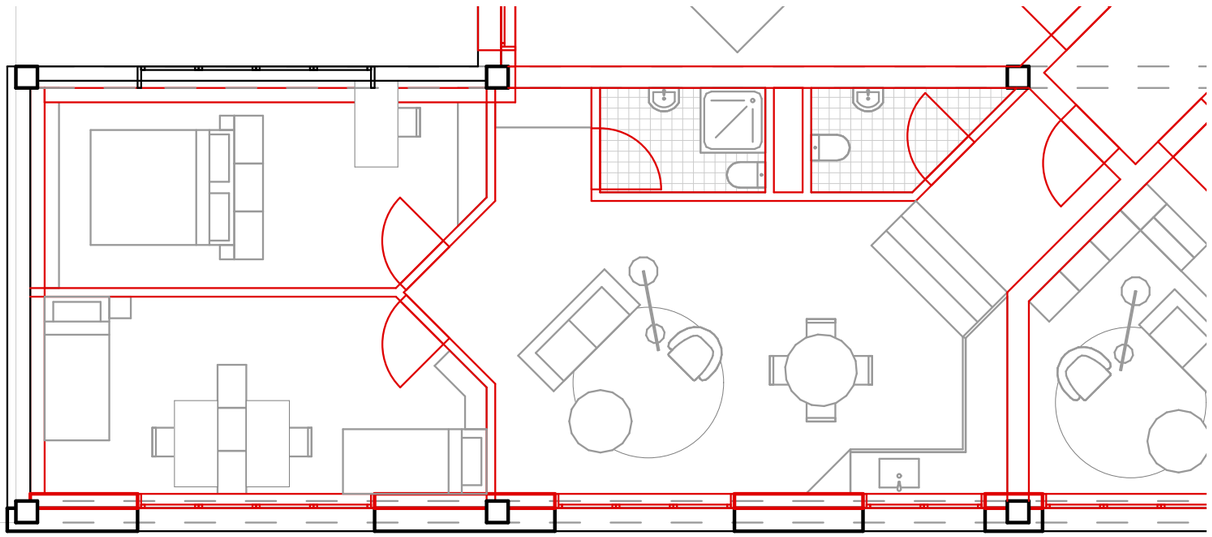
section A-A



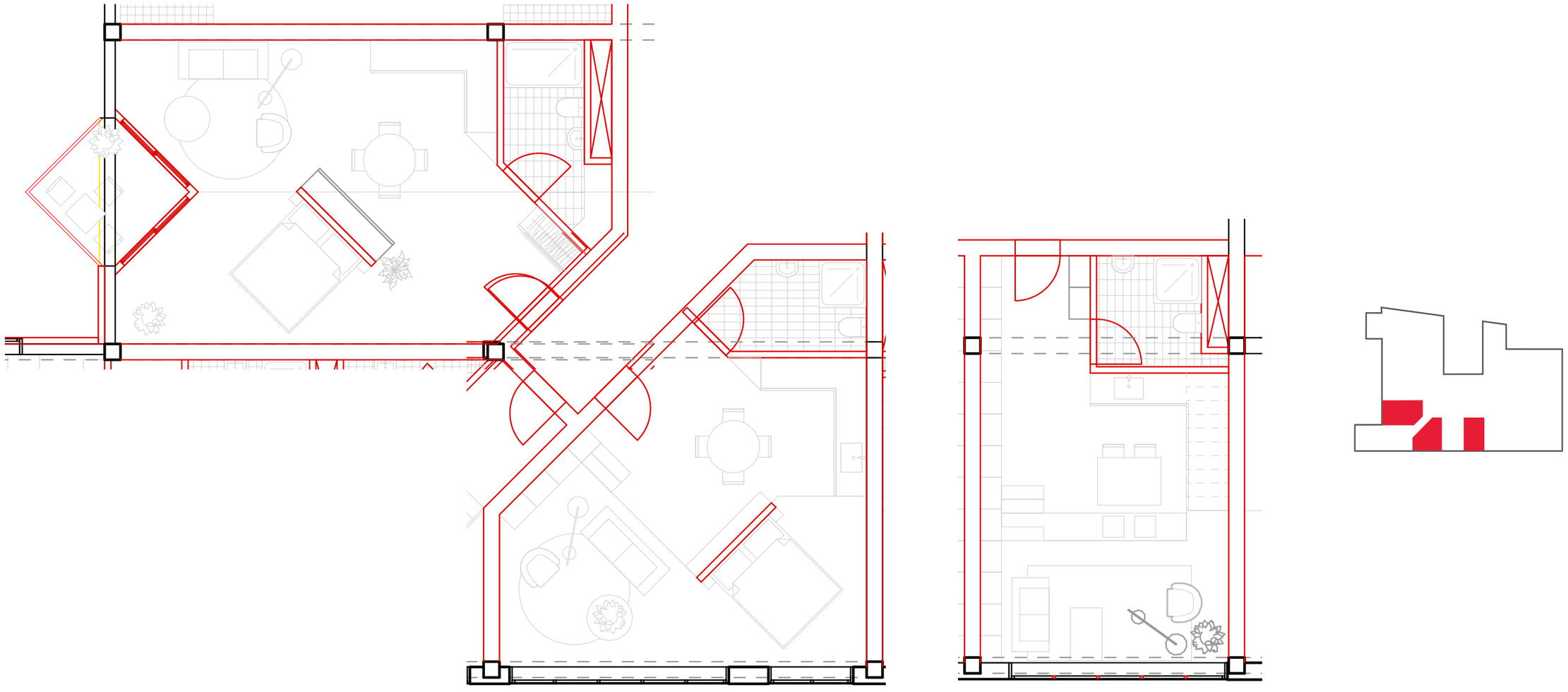
housing



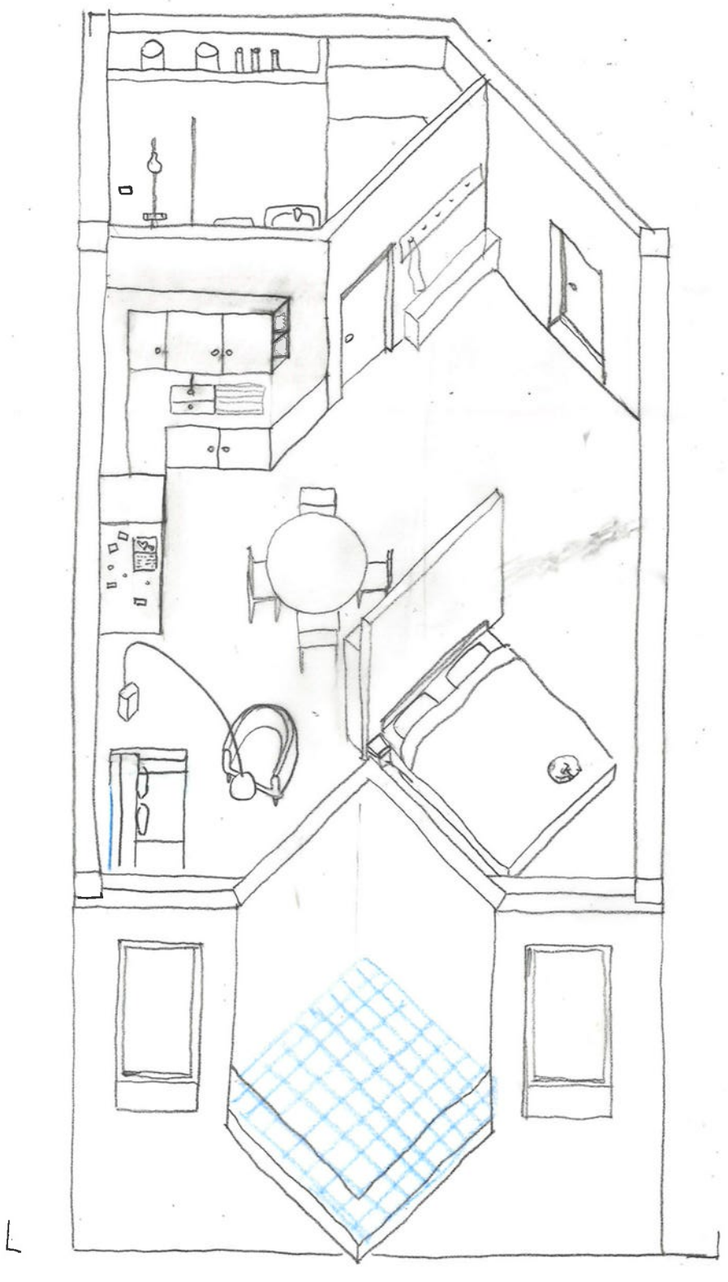


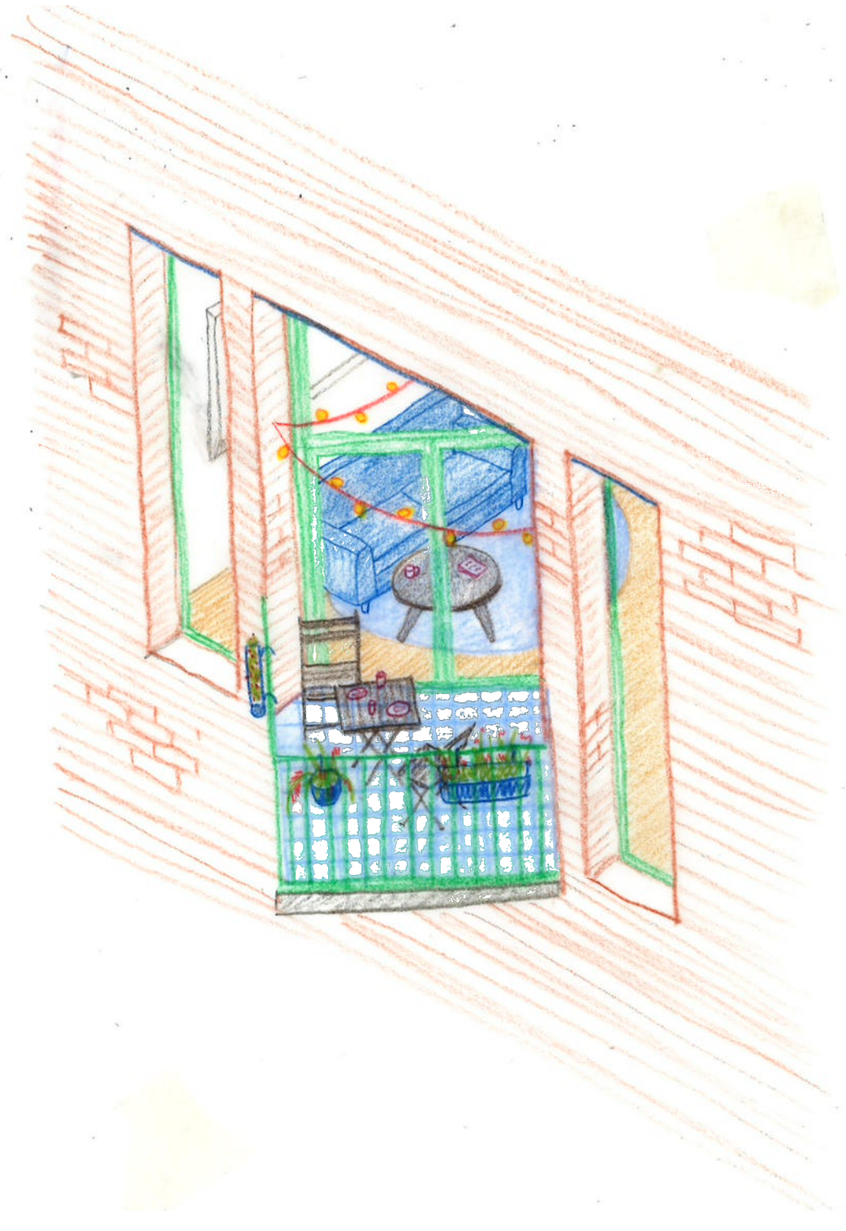


housing apartment type - 2/3 bedrooms



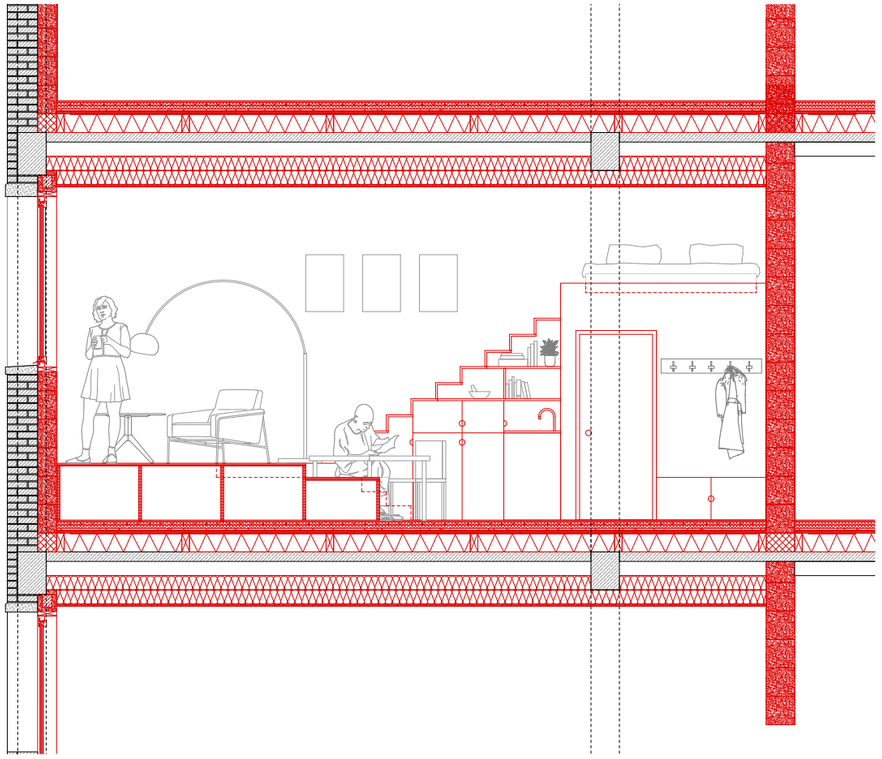
housing apartment type - studio





housing apartment types

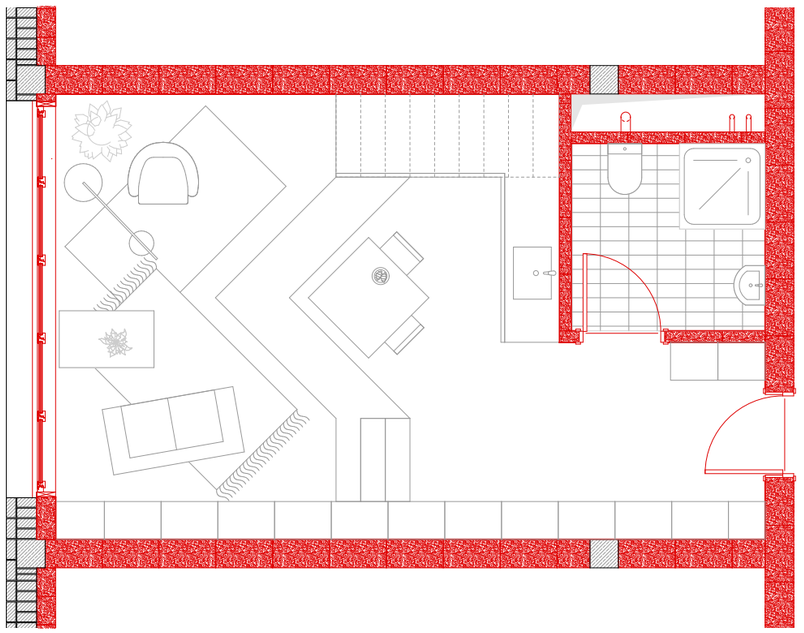




window:
IsoHemp lintel with reinforced concrete core
triple glazing in 78 mm pine frame

wall construction:
210/100/65 mm brick masonry infill wall, existing
300/300 mm concrete column, existing
300/450 mm concrete beam, existing
hempcrete masonry blocks 200mm
PCS natural plaster finish 5mm

floor and ceiling construction:
wooden floorboard, recycled 18mm
inlaid soft wood fibre panel with underfloor heating 35mm
soft wood fibre impact soundproofing 35mm
crushed stone 18mm
silver fir sheating 30mm
hemp thermal insulation 200mm
waterproofing membrane
one way joist concrete slab 250mm
woodfibre insulation 300mm
gypsum board 12,5mm
plywood board 12mm



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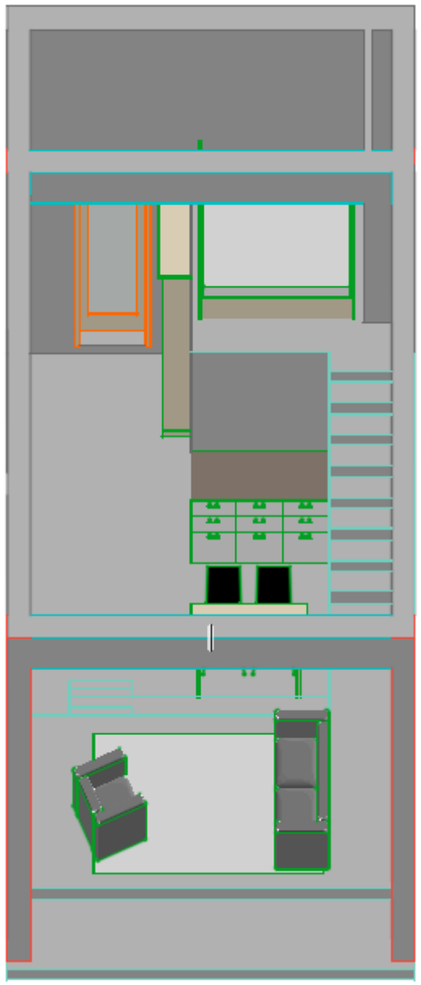

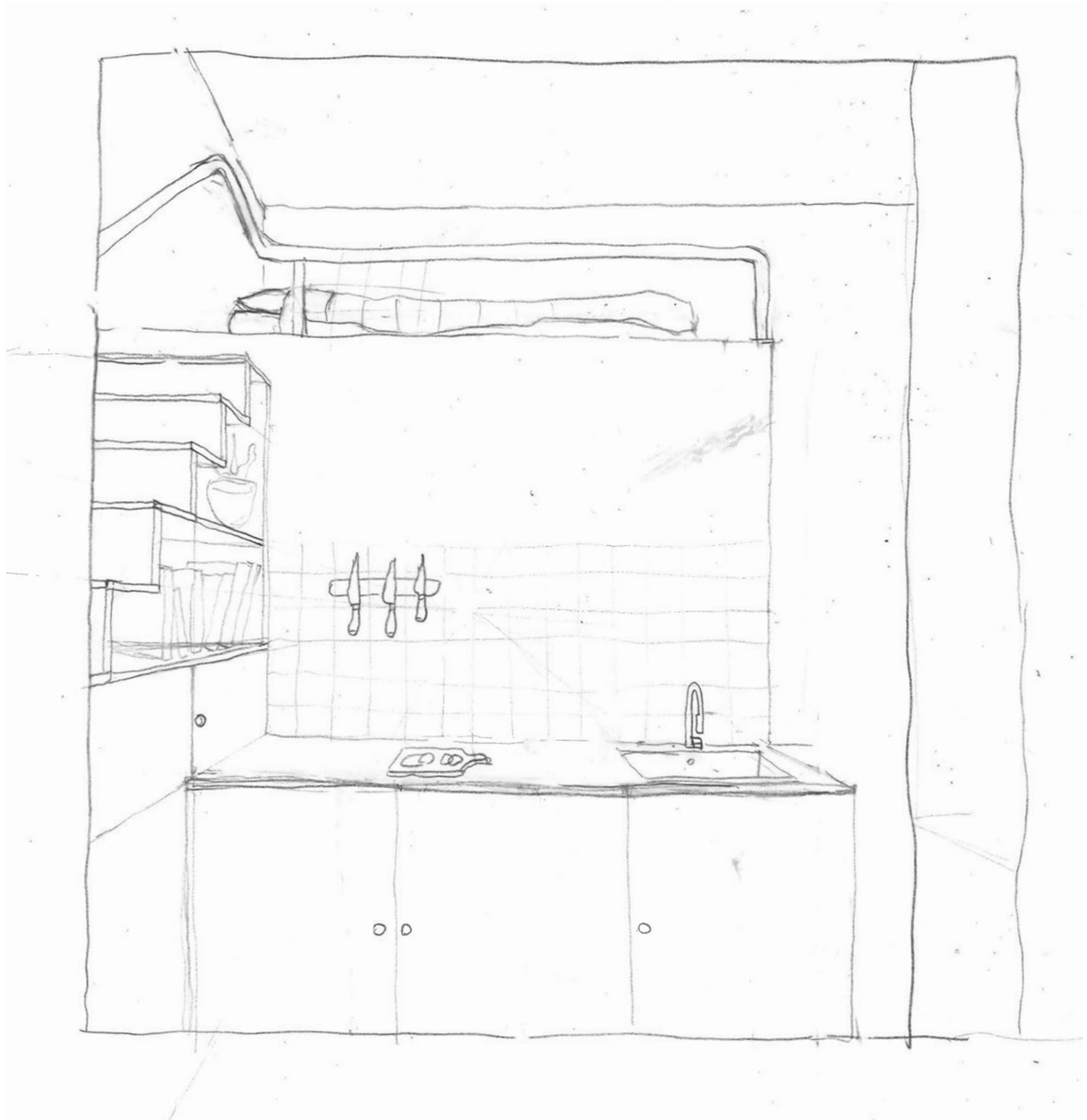

studio apartment


A
B
C
D
E
AL
BL
CL
DL
EL
ground floor plan



thank you