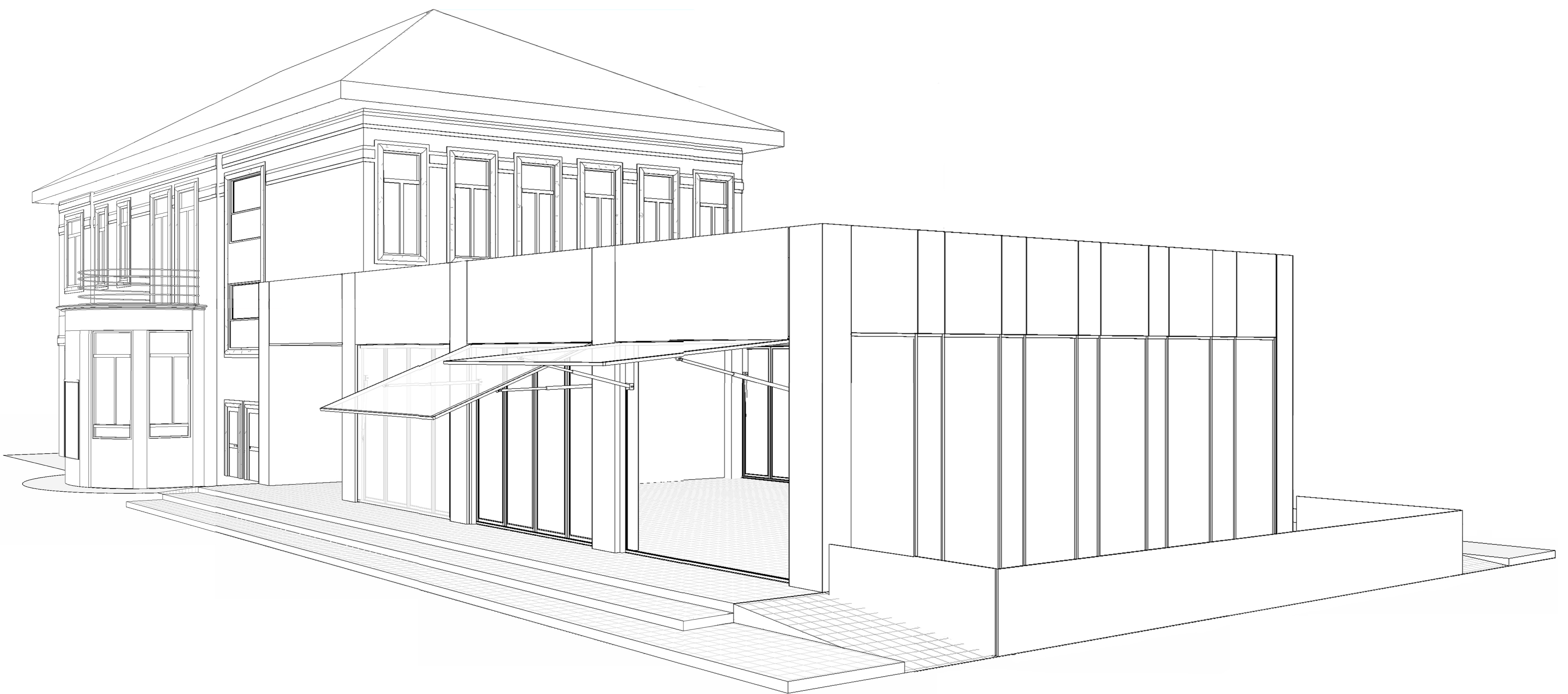


I N T E G R I T Y

in the center of Veterinaria Campus



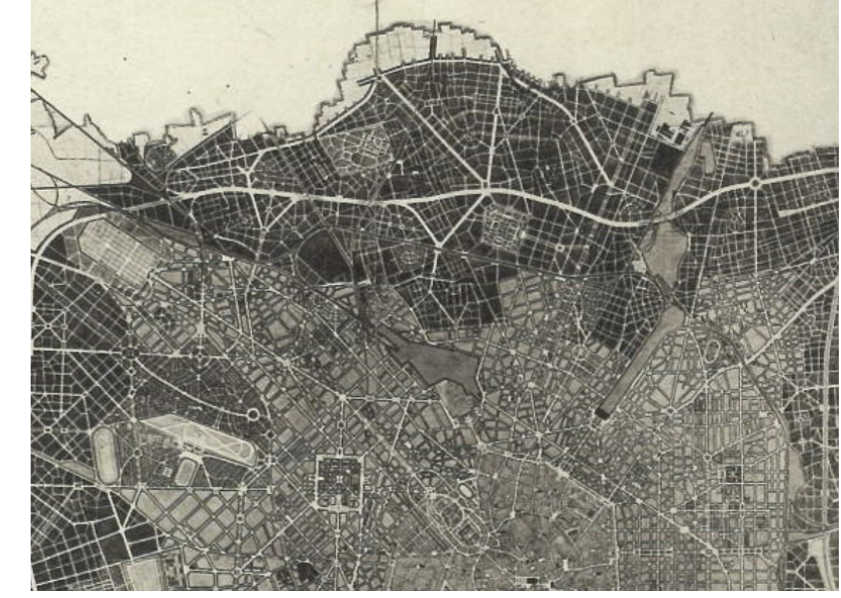
Site Analysis

Historical Timeline of the Site

1913
the state acquired a vast agricultural area that was about 50.000 sqm



the construction had started in Citta Studi but it stopped shortly after due to World War I 1915



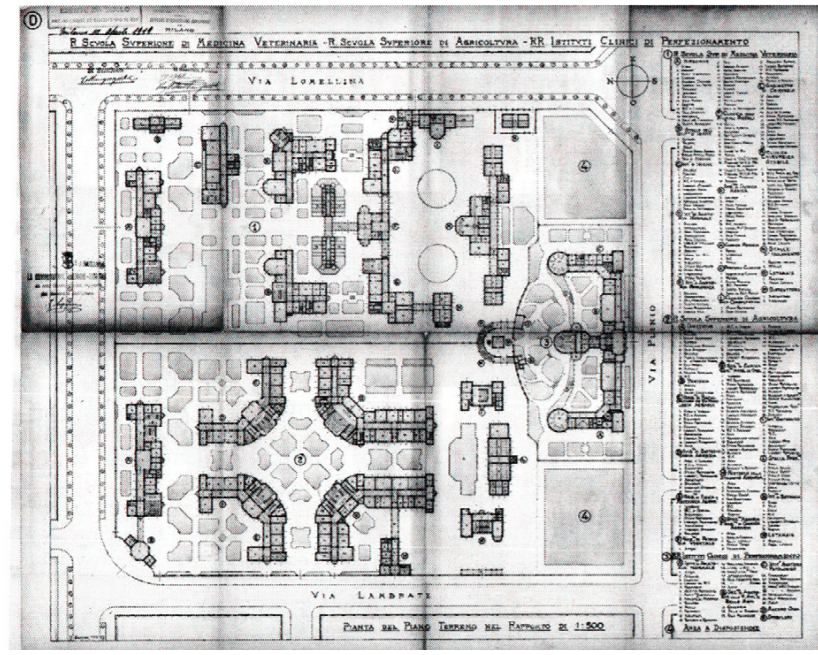
1924
view of the construction site



1934 Milan city map (reference: <https://www.ordinearchitettura.it/en/mappe/storico/49-from-the-idea-of-the-city-to-the-built-city-the-garibaldi-repubblica-area/saggio>)

“city of studies”
the idea of creating new and more suitable spaces for scientific schools

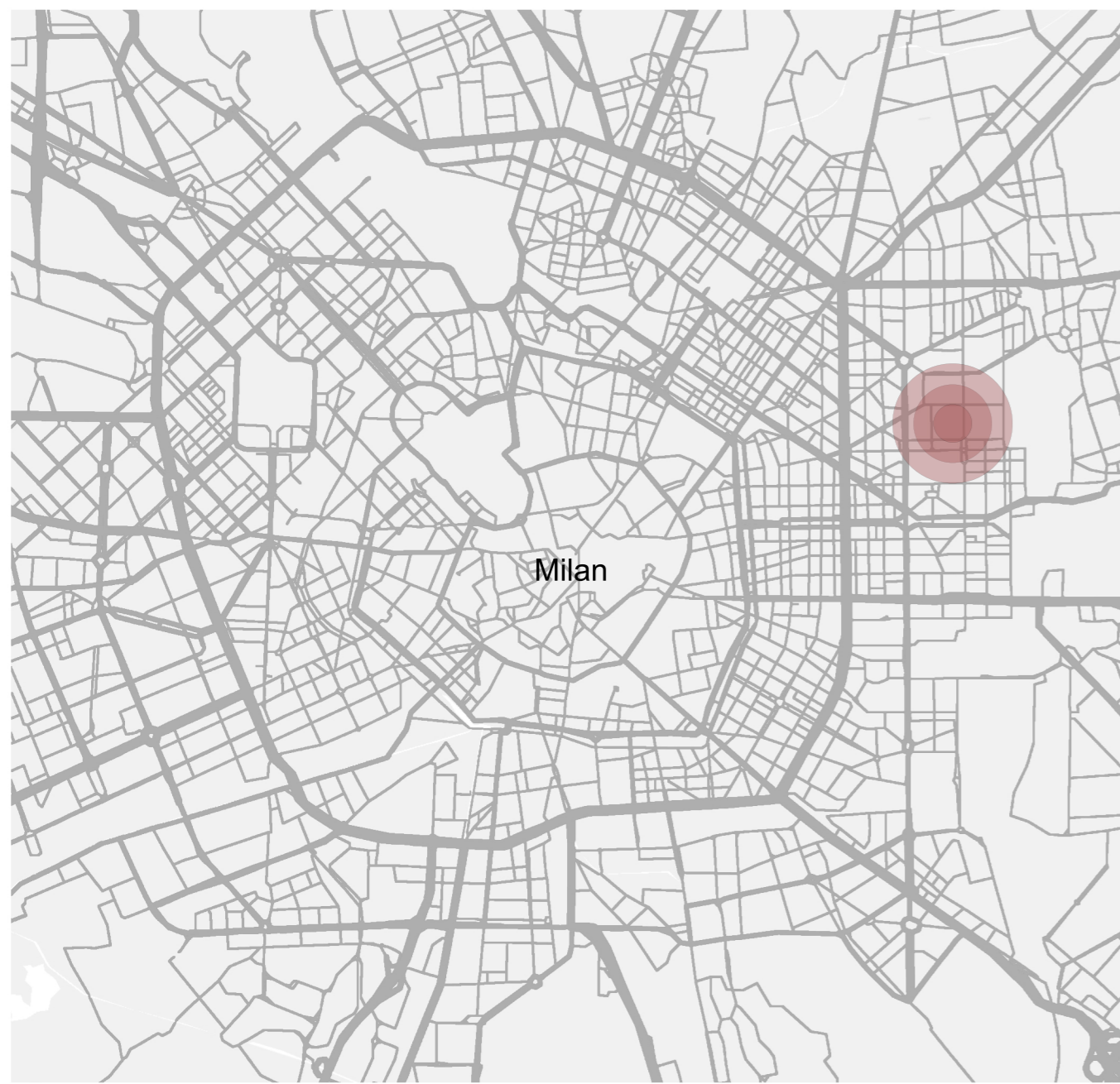
Milan Masera Pavia Town Plan of 1912 located Citta Studi complex



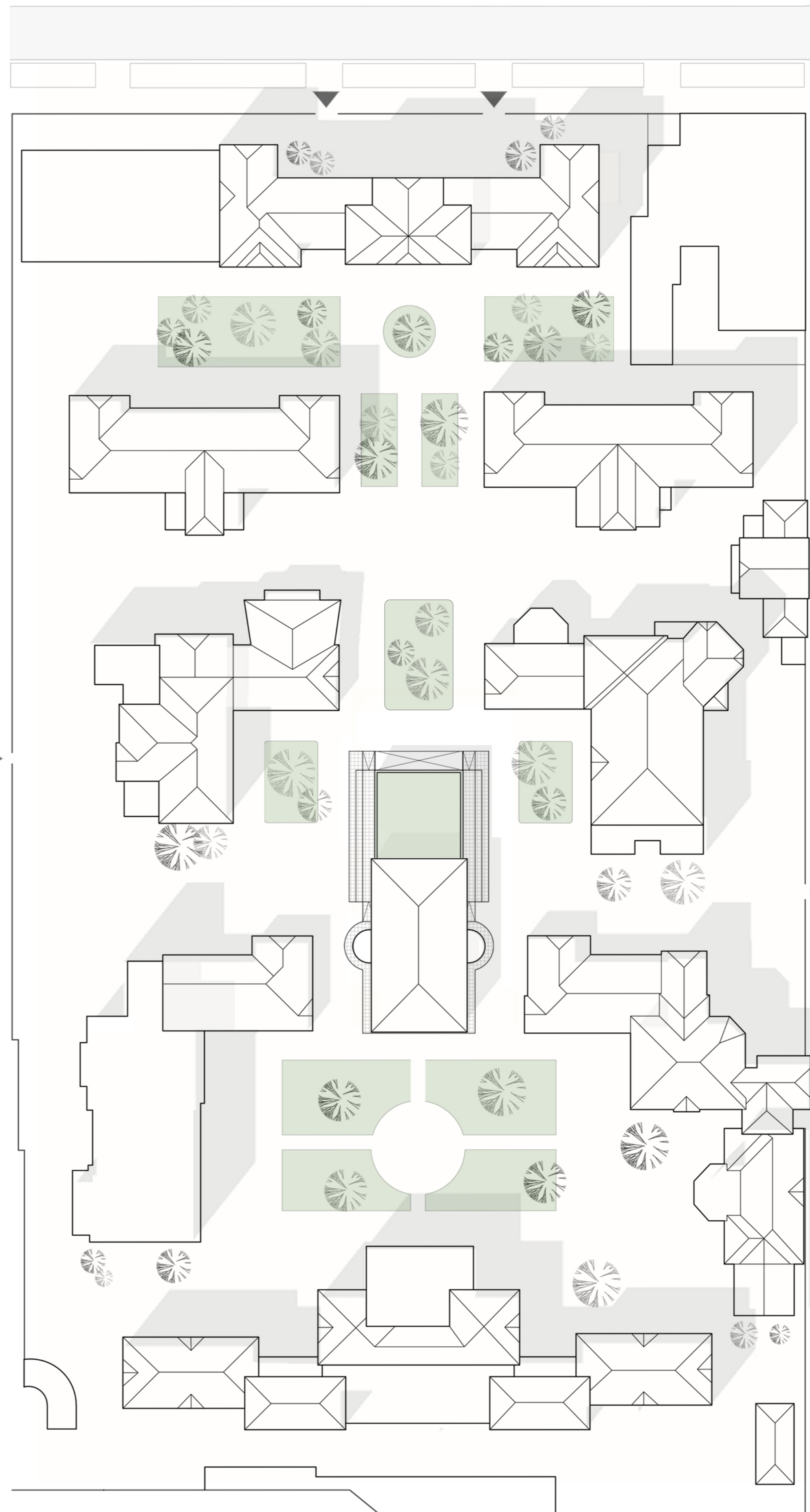
General plan of Faculty of Agriculture and Veterinary in 1919 (reference: University of Milan 198_Cel10_BenCult_22000)

the buildings were subjected to the protection of Law Cultural and Landscape Heritage of Lombardy 2011

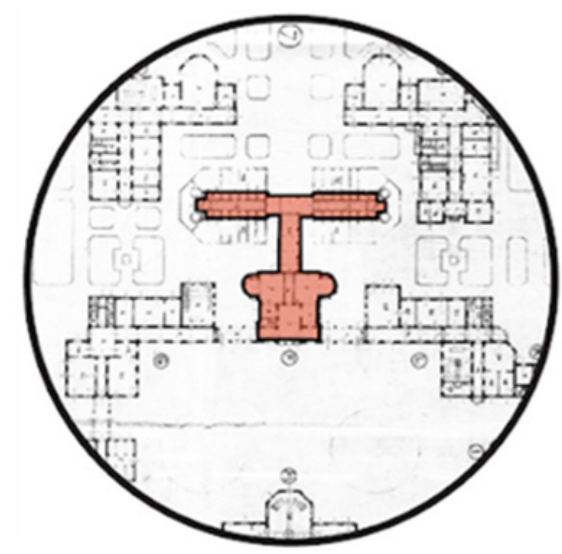
Site Location



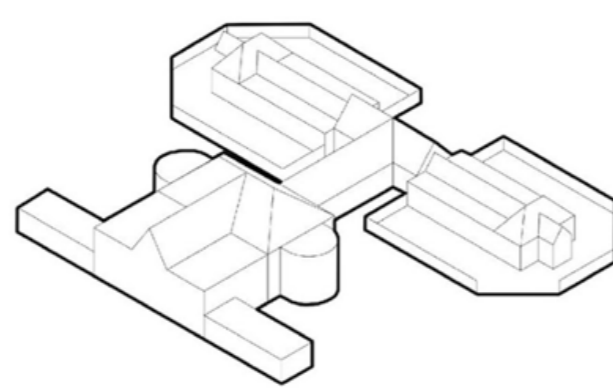
Master Plan 1:500



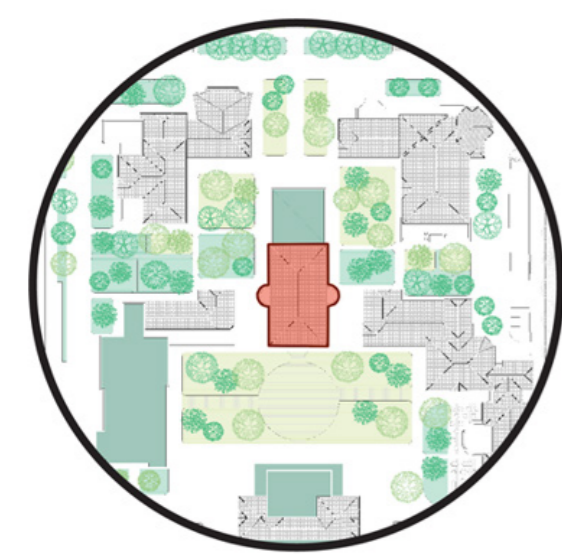
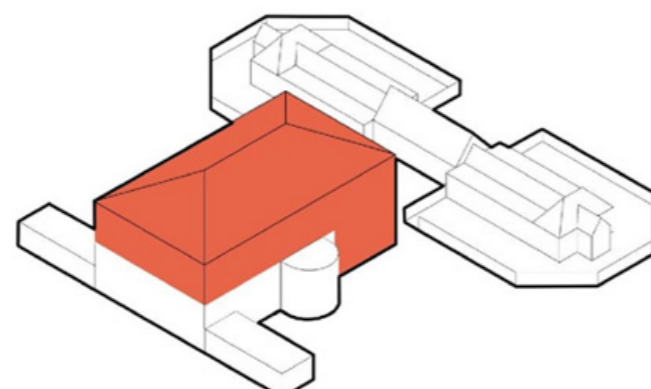
Transformation of the Building Over the Years



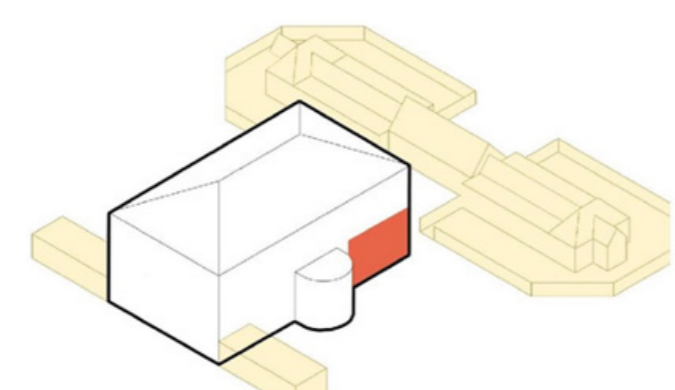
1910



1949



1949 - 2020s





East Orthophoto



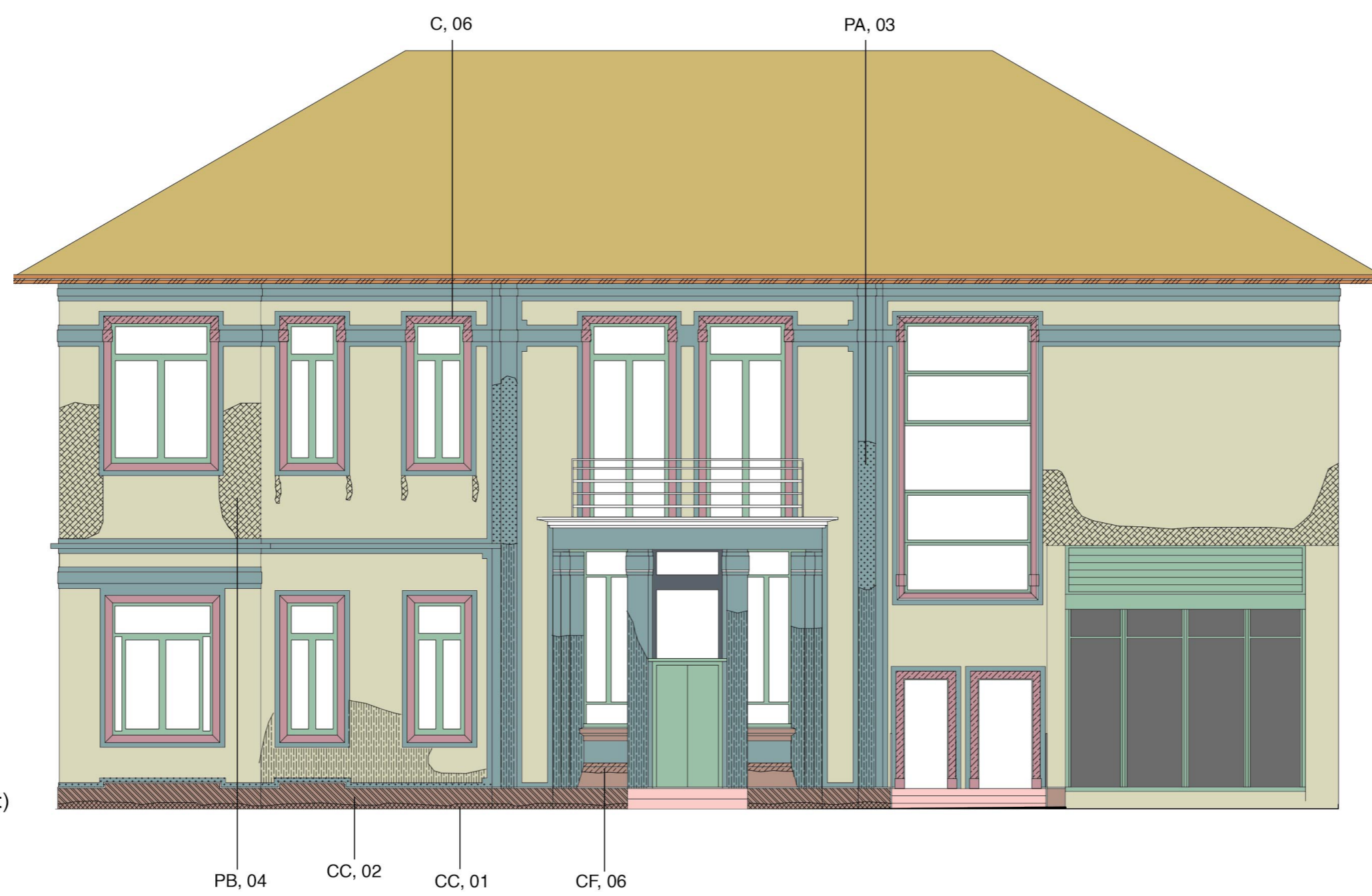
North Orthophoto

Materials

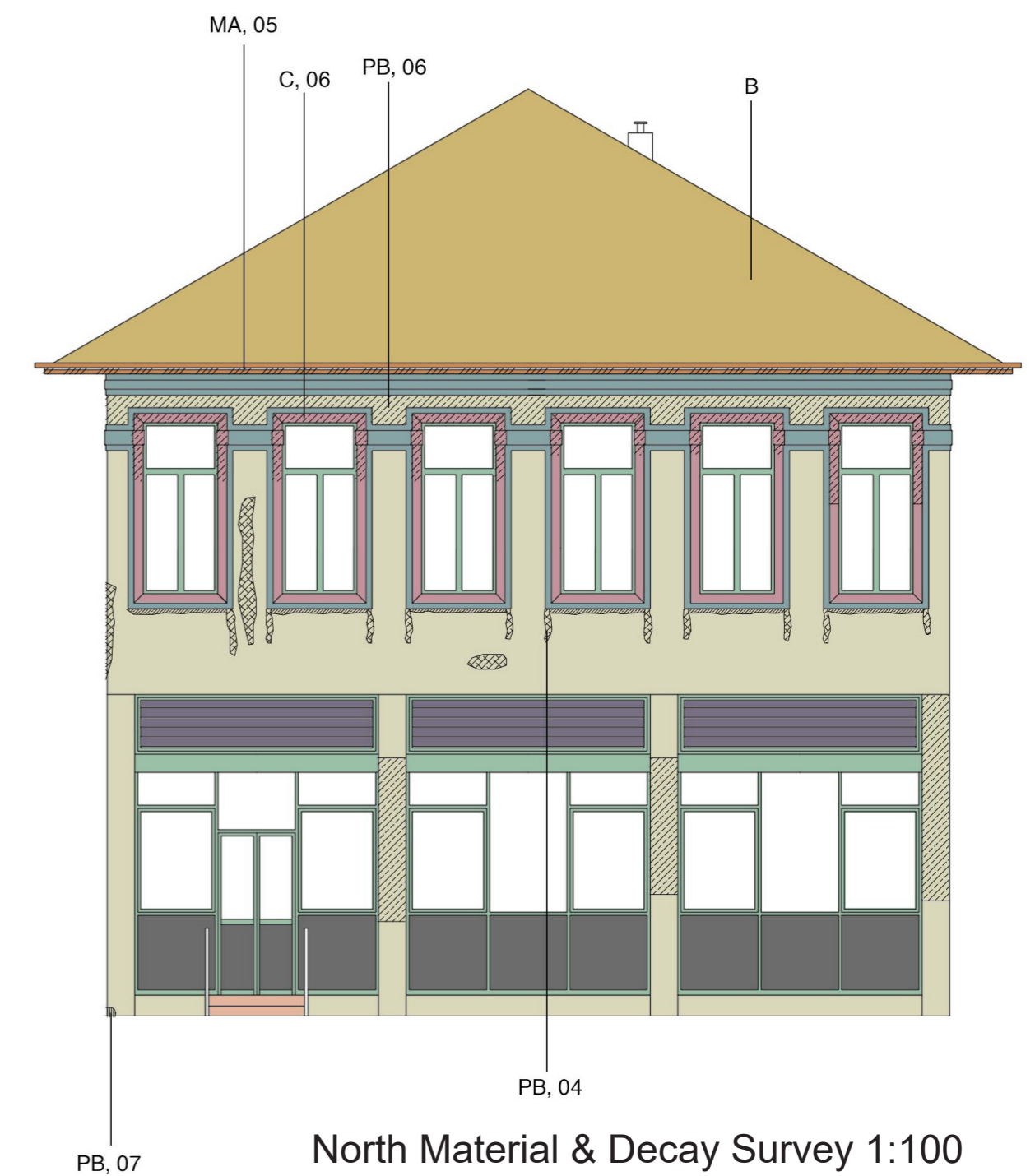
- G - glass
- S - stone steps
- B - brick tiles
- W - wood
- P - PVC
- PA - decorative plaster
- PB - plaster with red pigment
- C - decorative cement
- MA - metal (copper)
- A - metal (aluminum)
- CC - artificial stone (conglomerate)

Decays

- 00 - crack
- 01 - erosion
- 02 - disintegration
- 03 - peeling
- 04 - discoloration
- 05 - corrosion and oxidation
- 06 - deposit
- 07 - biological colonization
- 08 - incompatible intervention (white painting and cement)



East Material & Decay Survey 1:100



North Material & Decay Survey 1:100

Conservation

PHASE 1

Removal

- R.01 - demolitions

Cleaning

- PI.00 - dry cleaning
- PI.01 - cleaning with bioxide products
- PI.02 - cleaning with wrap of absorbent clay
- PI.03 - cleaning with chemical products

PHASE 2

- PI.04 - cleaning with deionized nebulized water at low pressure

Consolidation

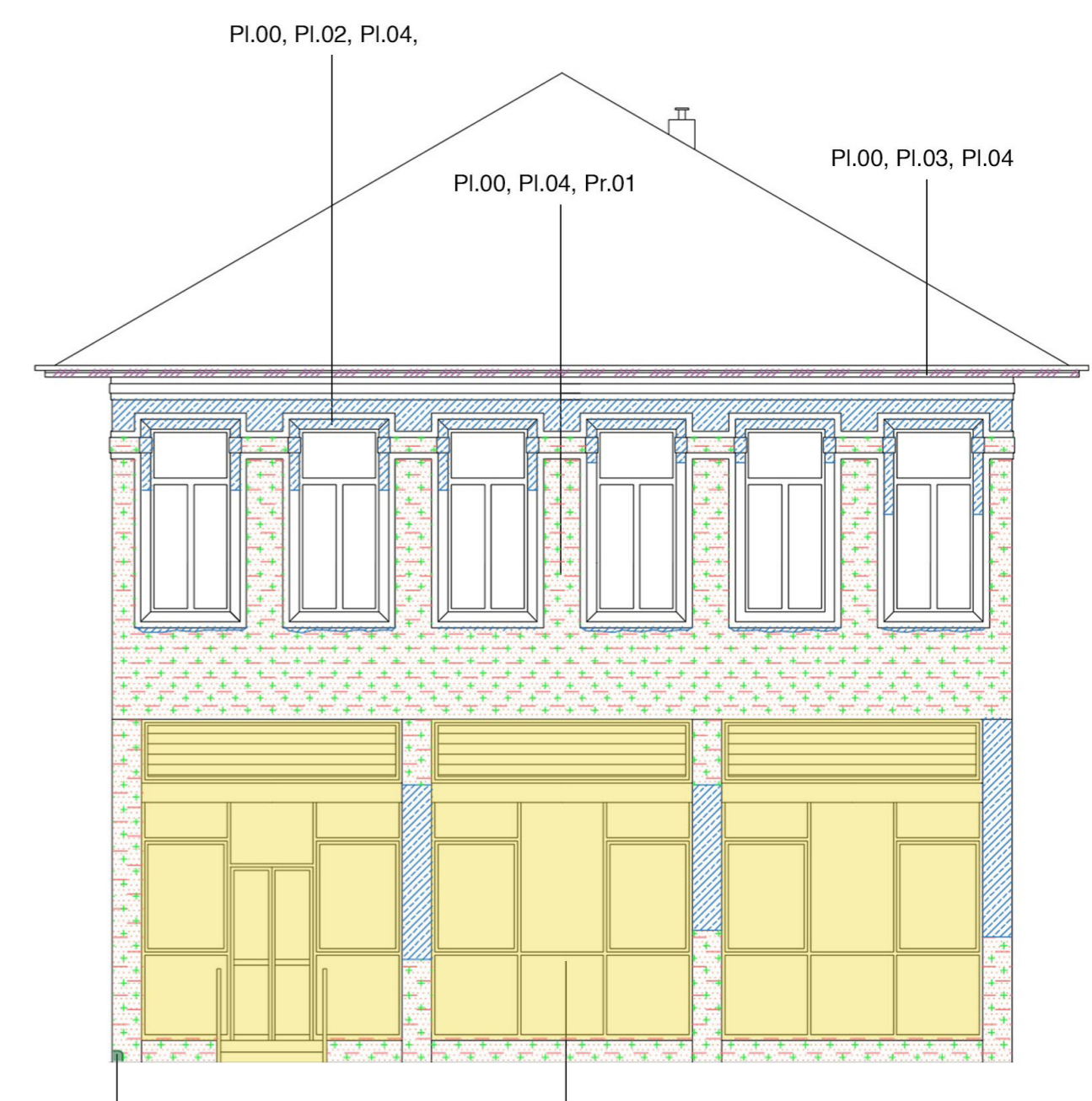
- Co.01 - consolidation with ethyl silicate
- Co.02 - micro surface consolidation
- Co.03 - addition - integration of the missing parts

Protection

- Pr.01 - final finishing to reduce chromatic differences



East Conservation Project 1:100



North Conservation Project 1:100

Photo Documentations



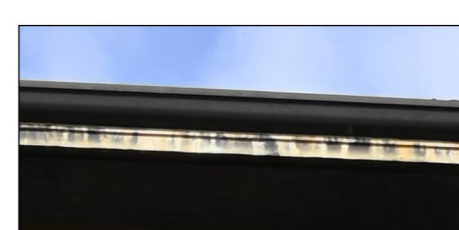
Material: plaster with red pigment
Decay type: discoloration
Decay reason: It is mainly caused by high humidity in atmosphere, especially in rainy days water would bring tiny dirt and color painting on the surface of plaster.



Material: decorative cement
Decay type: deposit
Decay reason: This decay could be caused by a series of complex mixtures, such as rainfall and dirt from air, tiny material losses from very surface of the cement.



Material: concrete
Decay type: biological colonization
Decay reason: This deterioration mainly caused by high humidity of environment and floating seeds in the air, lichen and mould are possible grow at same time and position.



Material: copper
Decay type: corrosion and oxidation
Decay reason: Metal corrodes when it reacts with another substance such as oxygen, hydrogen, an electrical current or even dirt and bacteria.



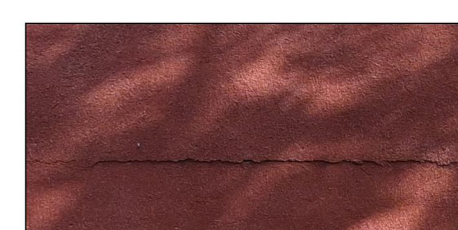
Material: artificial stone
Decay type: disintegration of artificial stone
Decay reason: Alternate wetting by rain and drying by sun causes internal stresses in the stones and consequent disintegration.



Material: mortar and plaster
Decay type: mechanical damage
Decay reason: This deterioration caused by renovation of ventilation or other equipment installment.



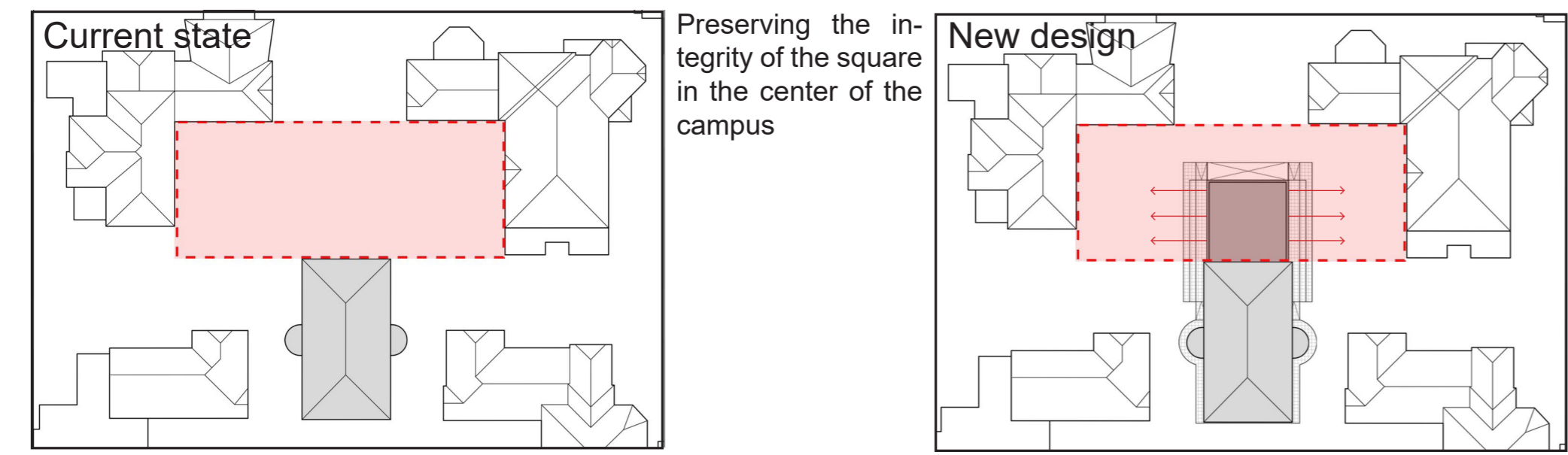
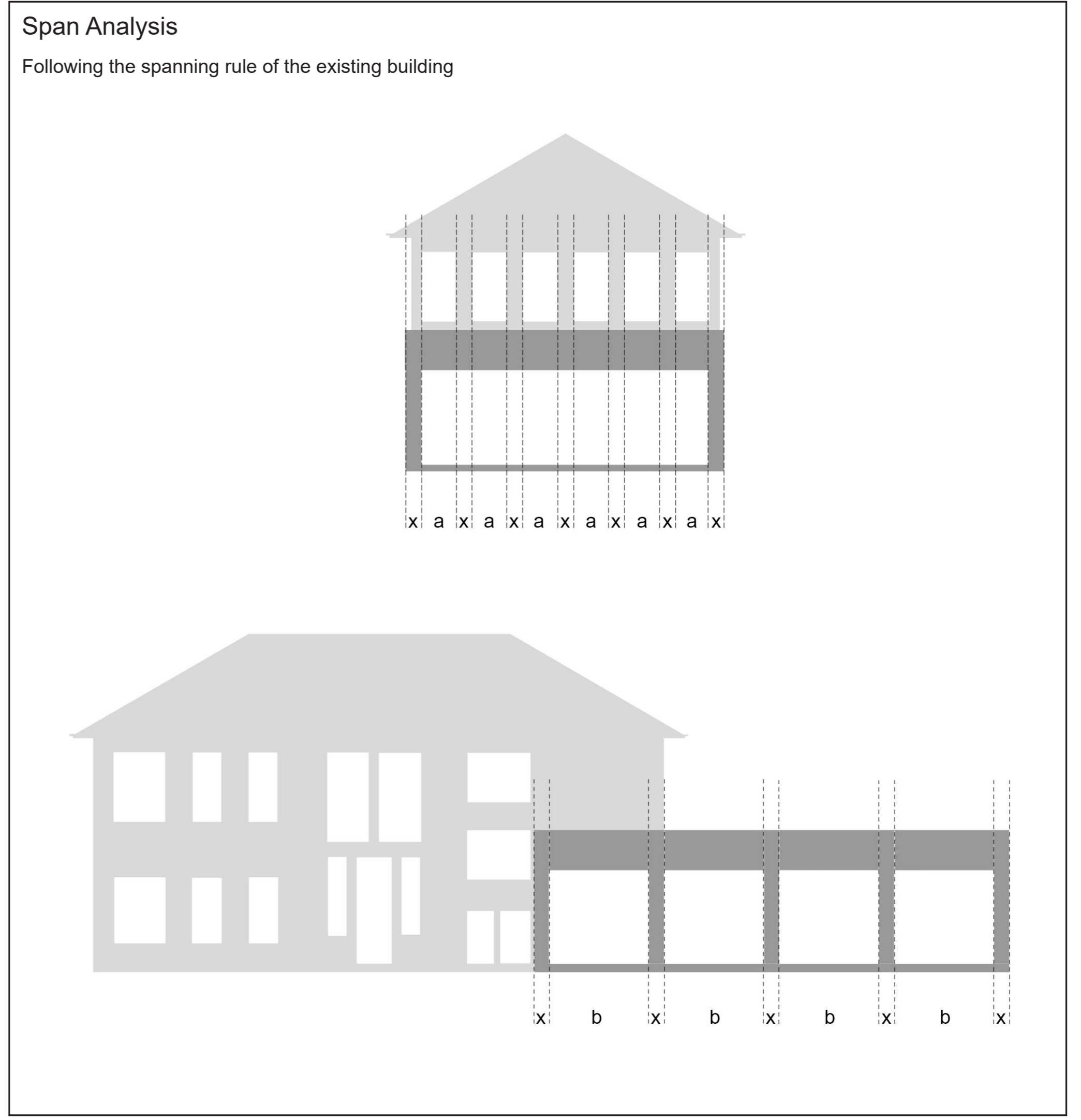
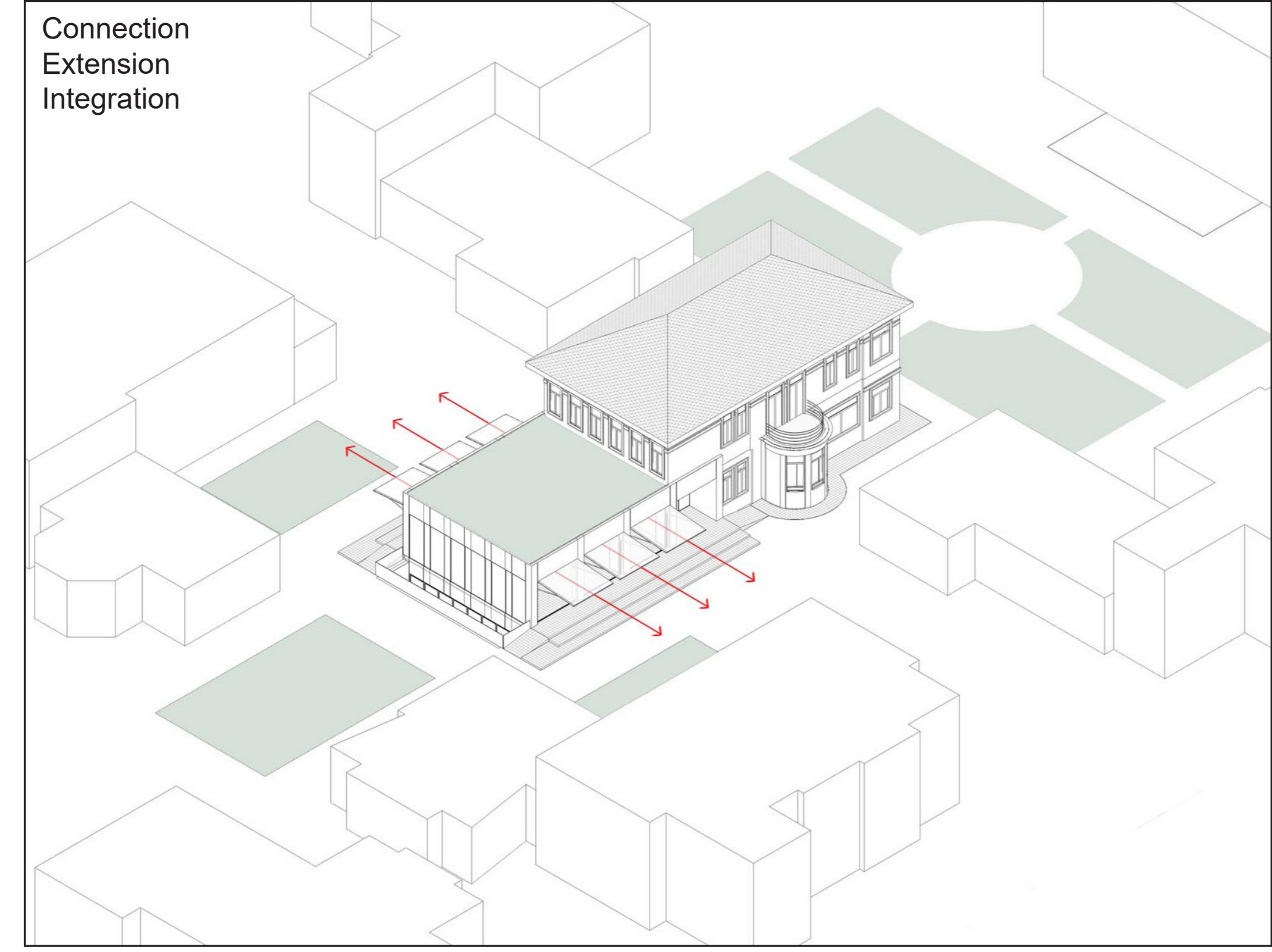
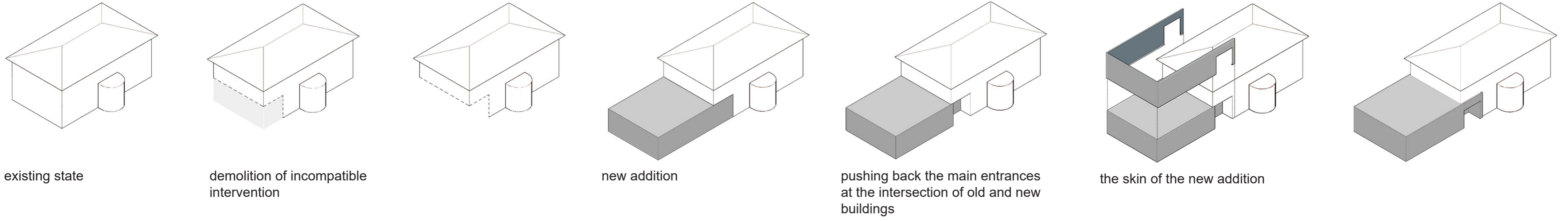
Material: mortar
Decay type: incompatible intervention (white painting)
Decay reason: This is human activities on the existing surface and the reason could be difficult to analysis, we can just assumed it ever experienced some dirty on the surface.



Material: mortar
Decay type: crack
Decay reason: Crack can caused by sudden temperature change and high humidity in air, gap between different materials during long periods after construction.

Concept

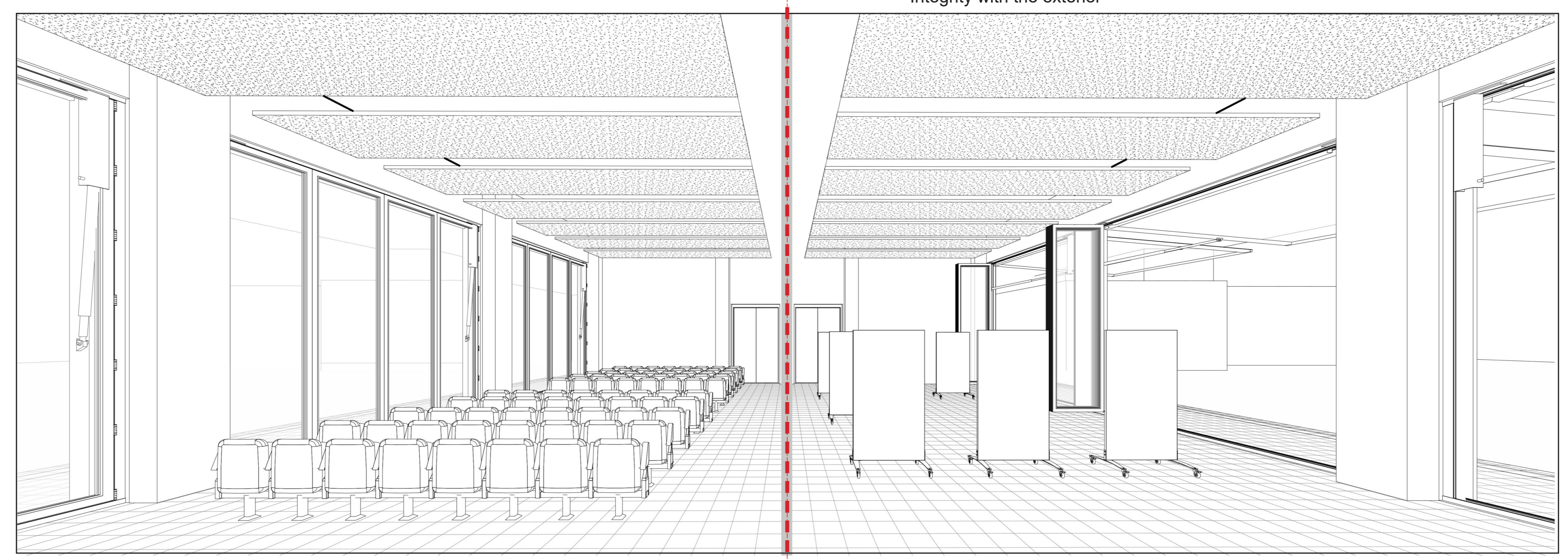
Massing Diagram



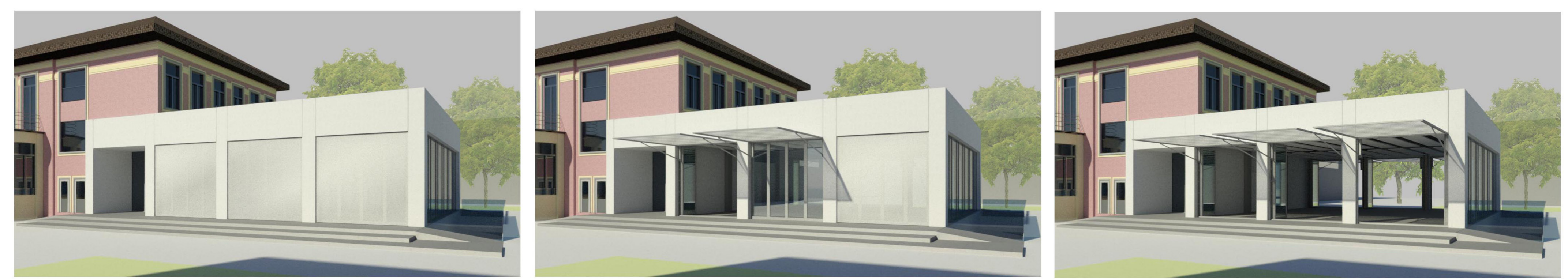
Multifunctional Space

Ordinary functions:
Lecture hall
Lessons
Lectures

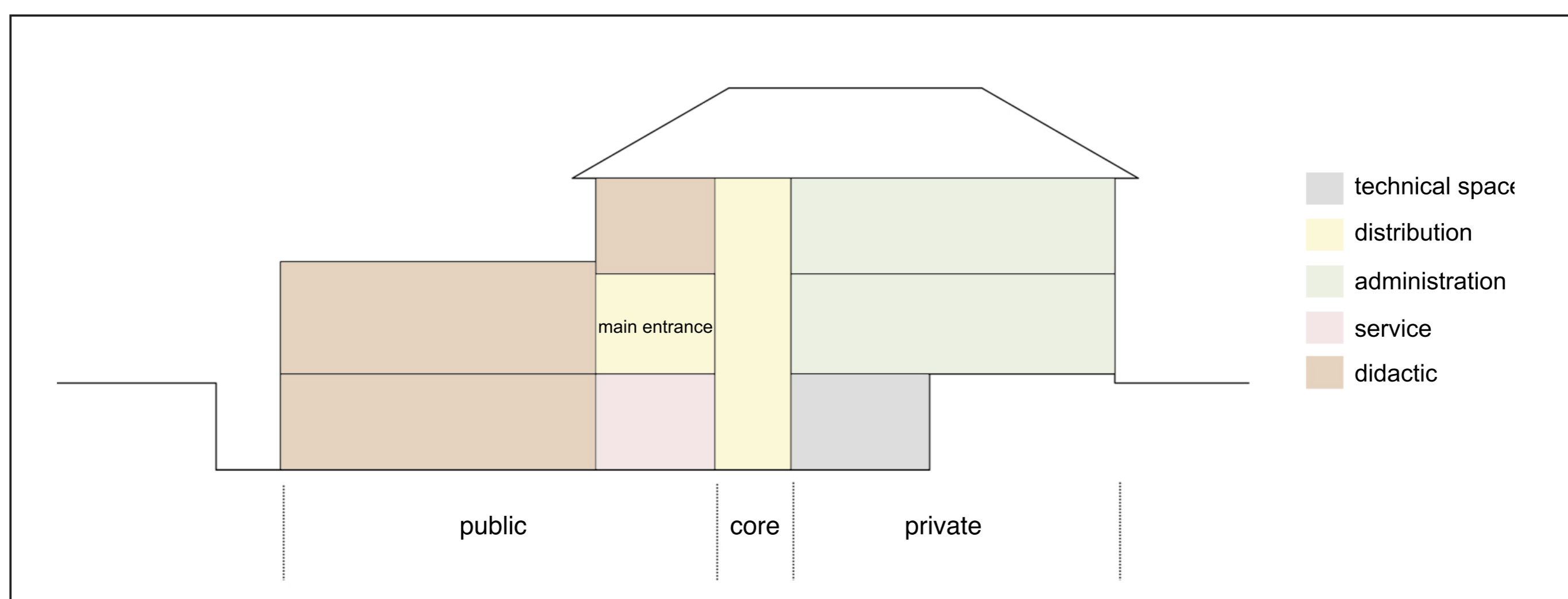
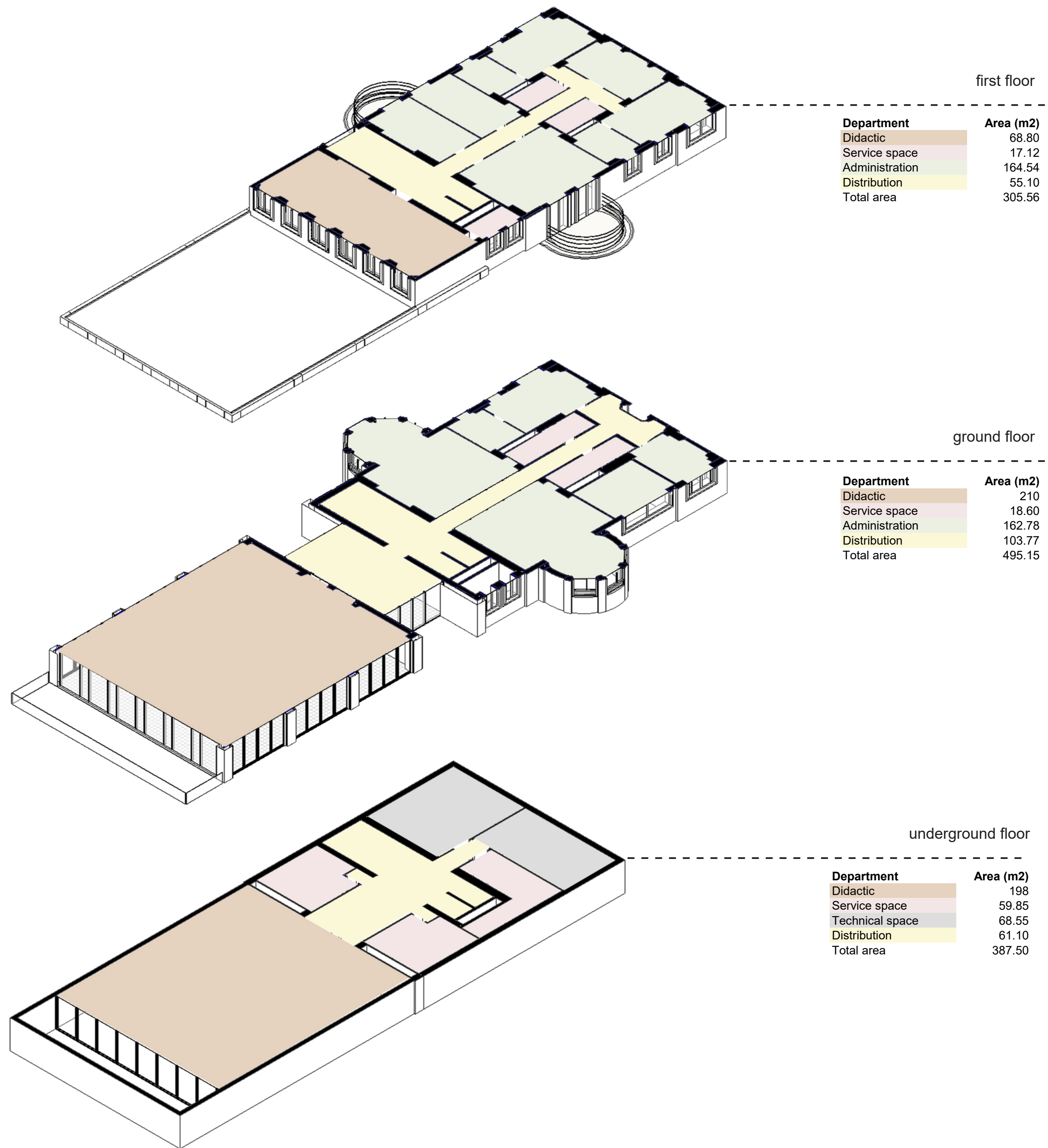
Other functions:
Exhibition hall
Seminars
Campus events
Research presentations
Integrity with the exterior

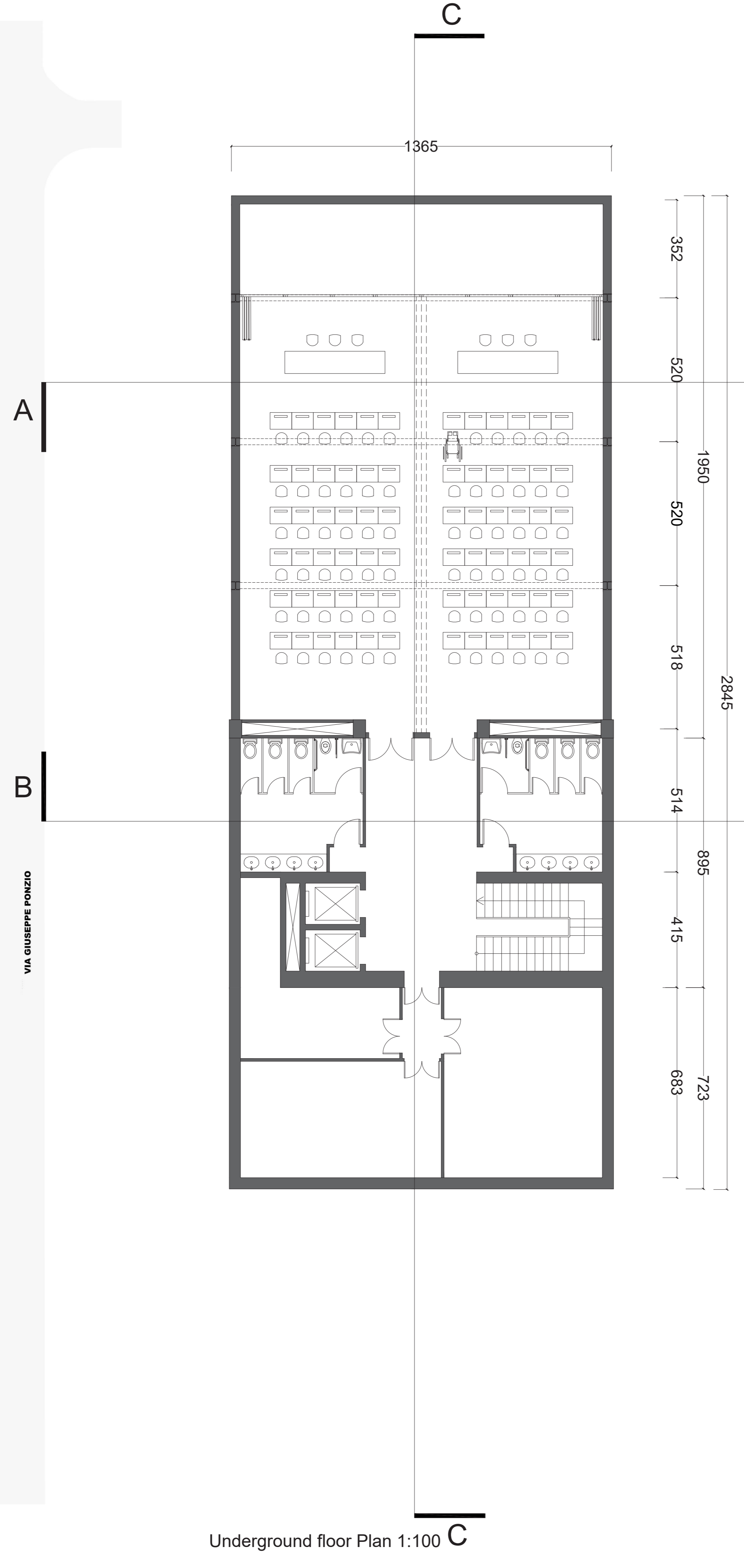
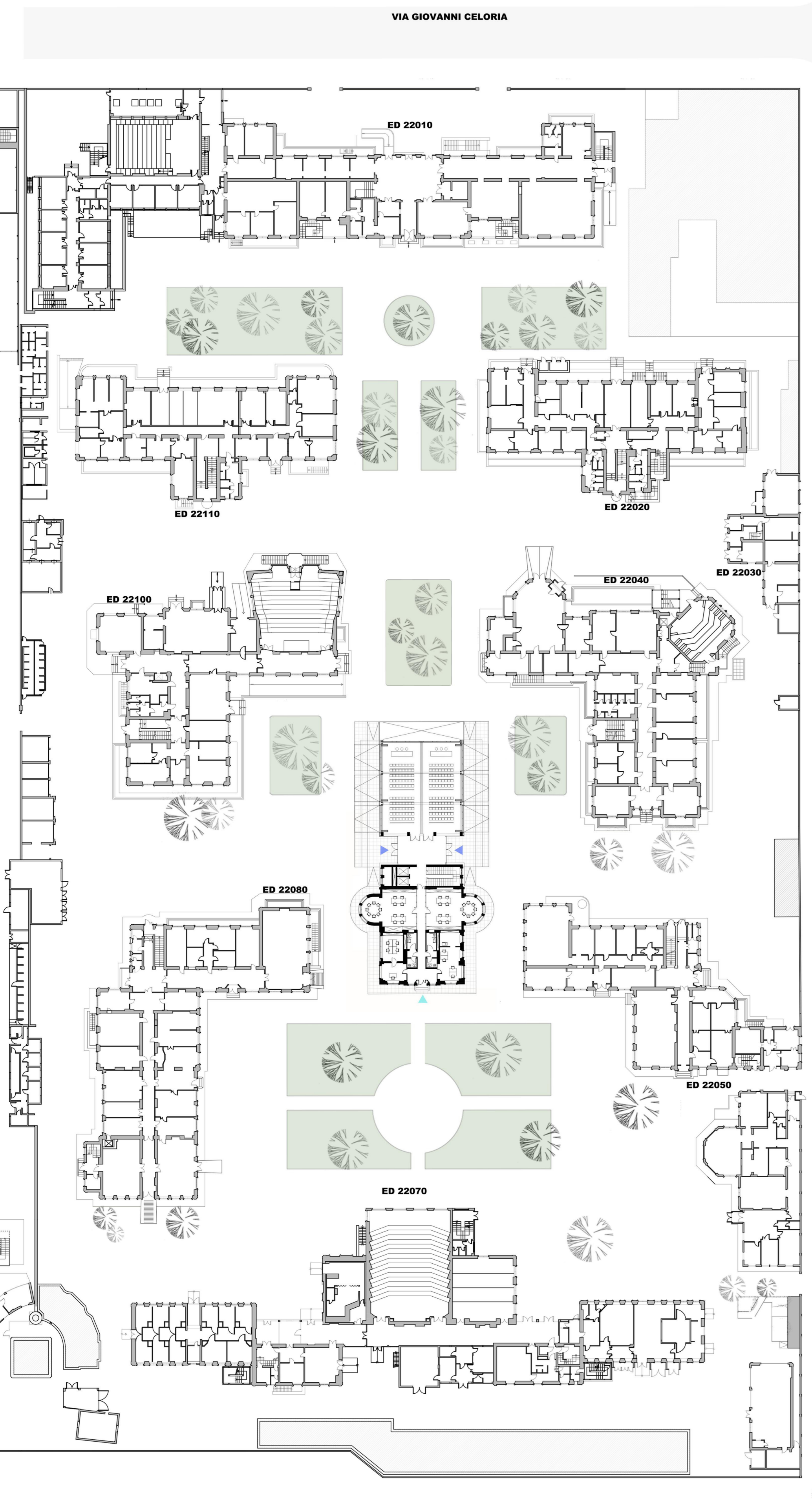
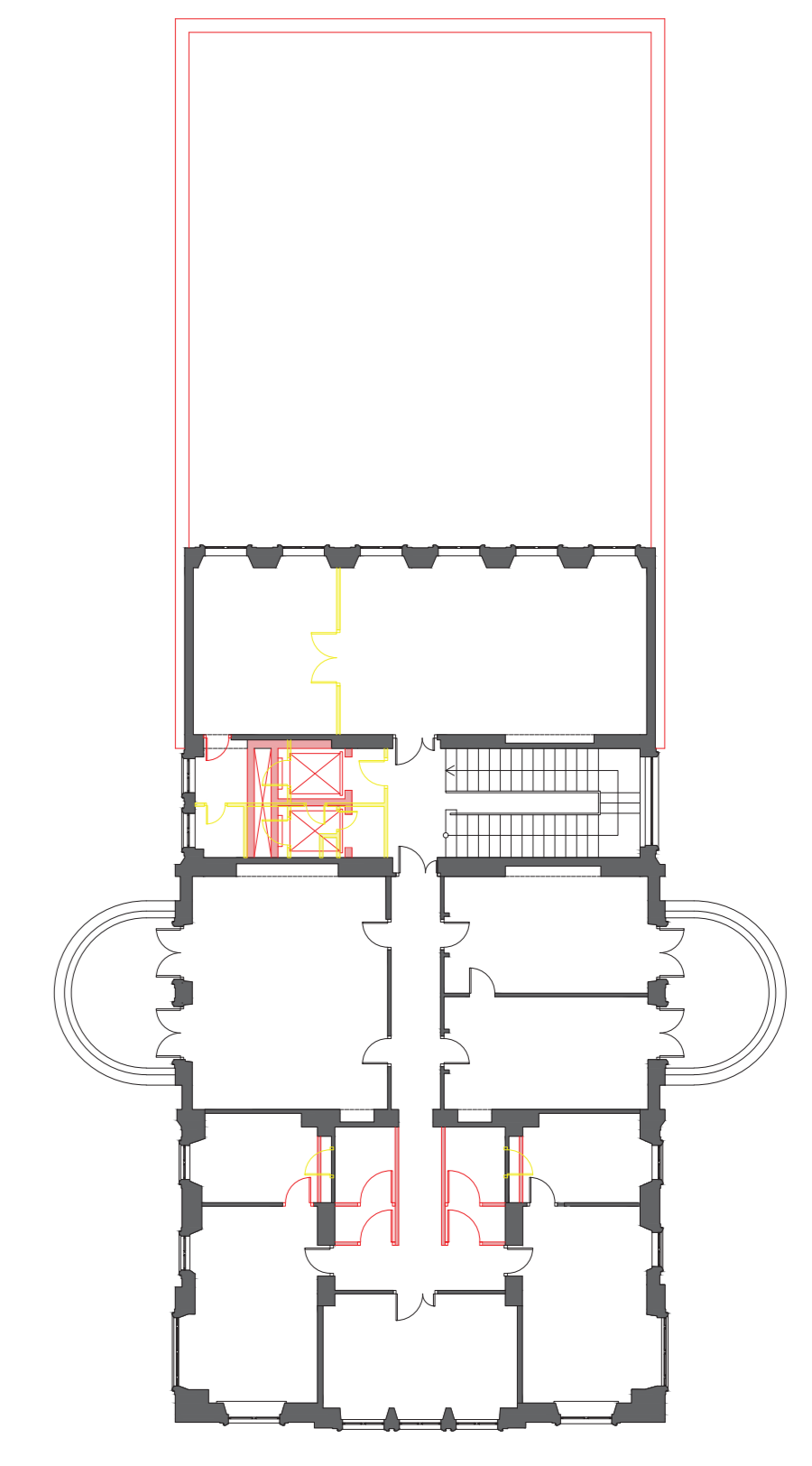
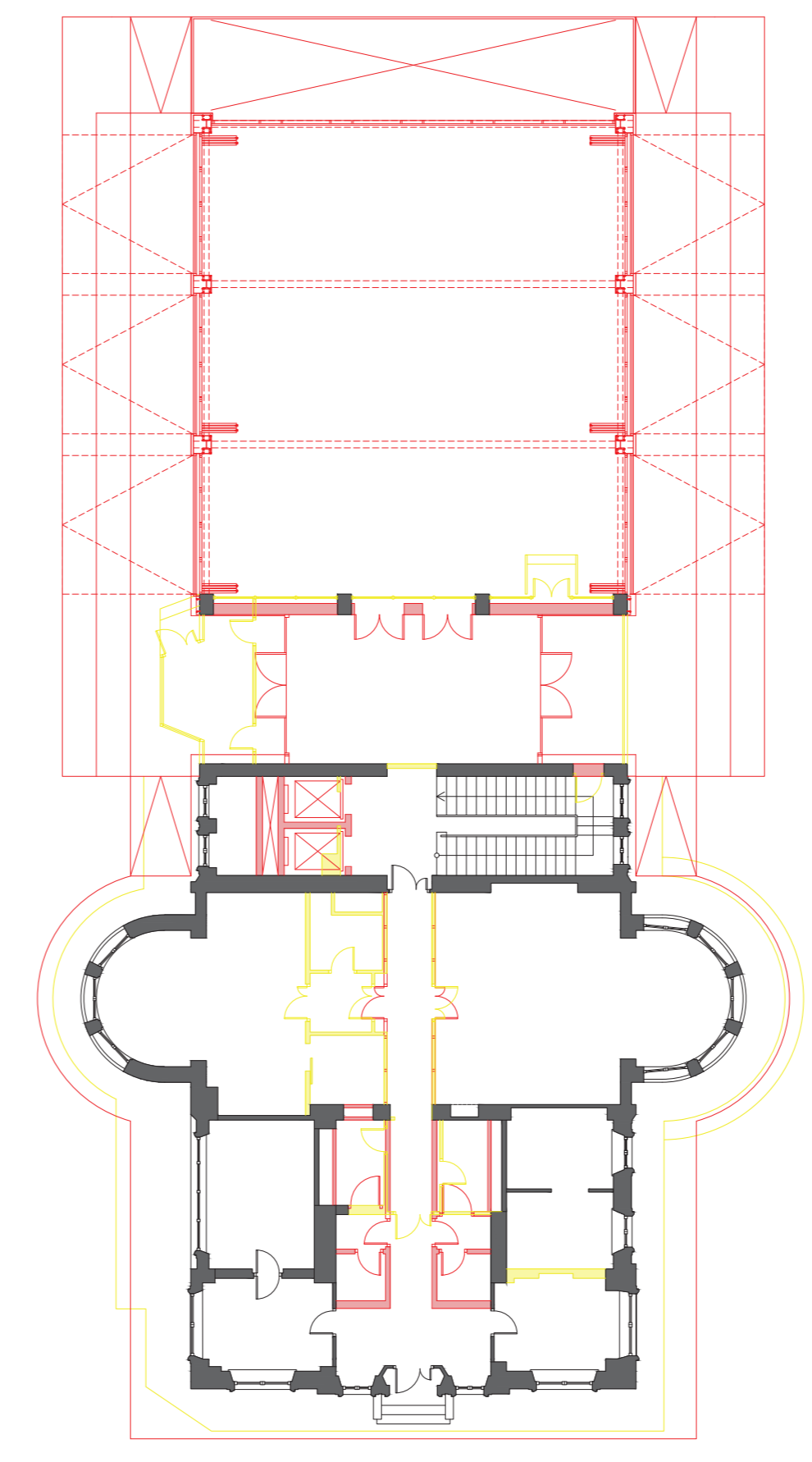
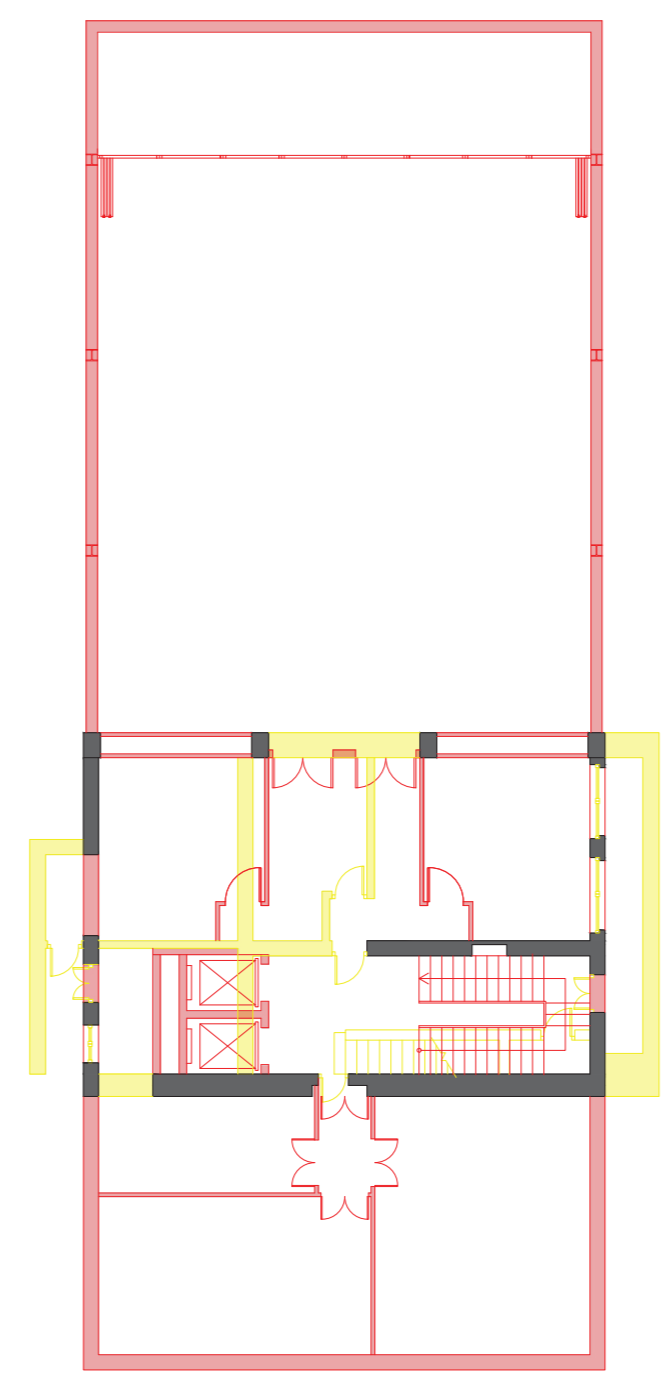
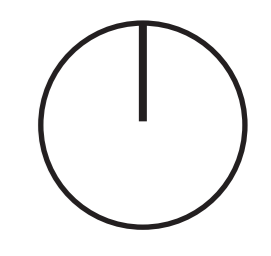


Different States of the New Addition

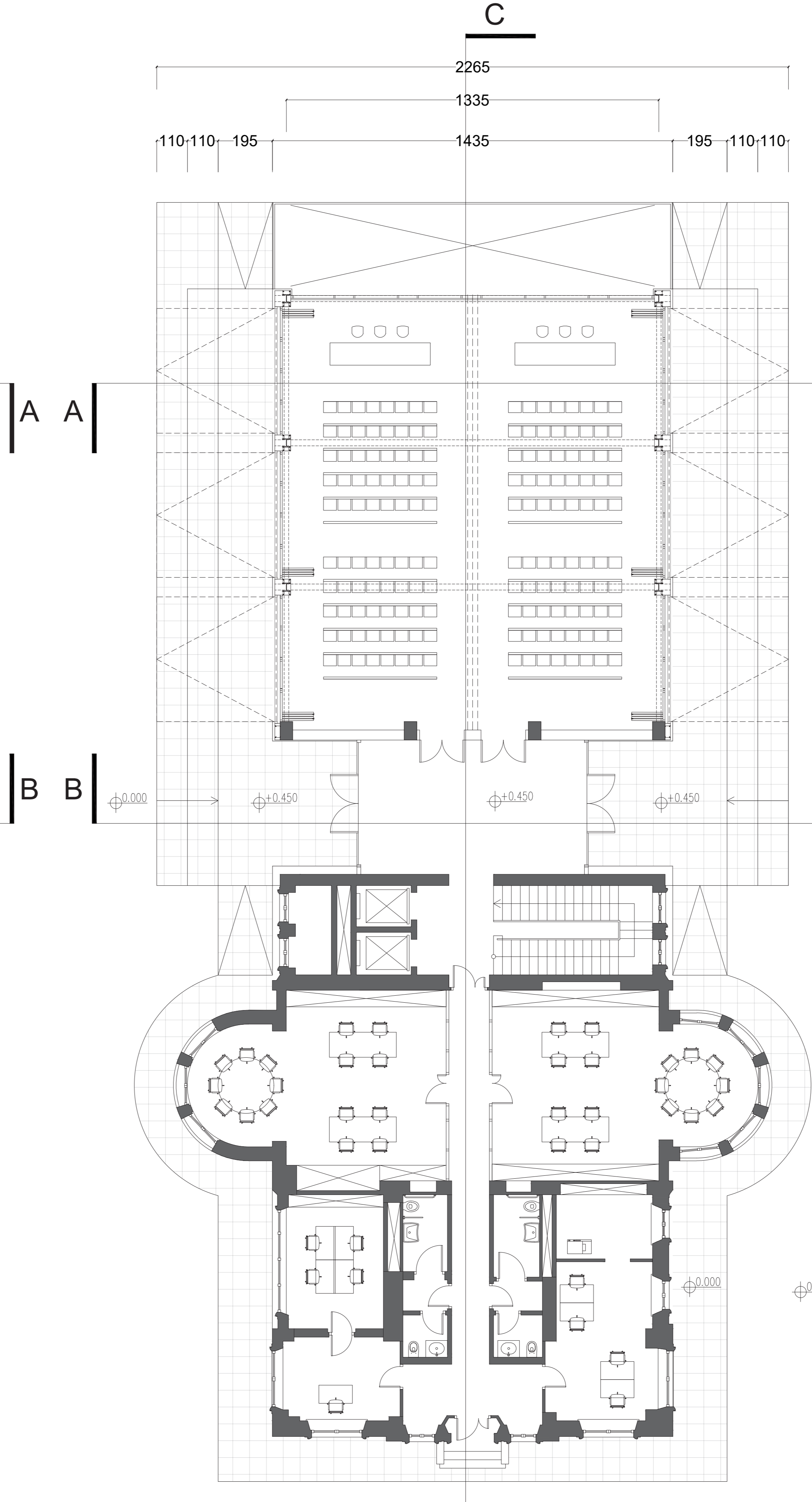


Functional Distribution

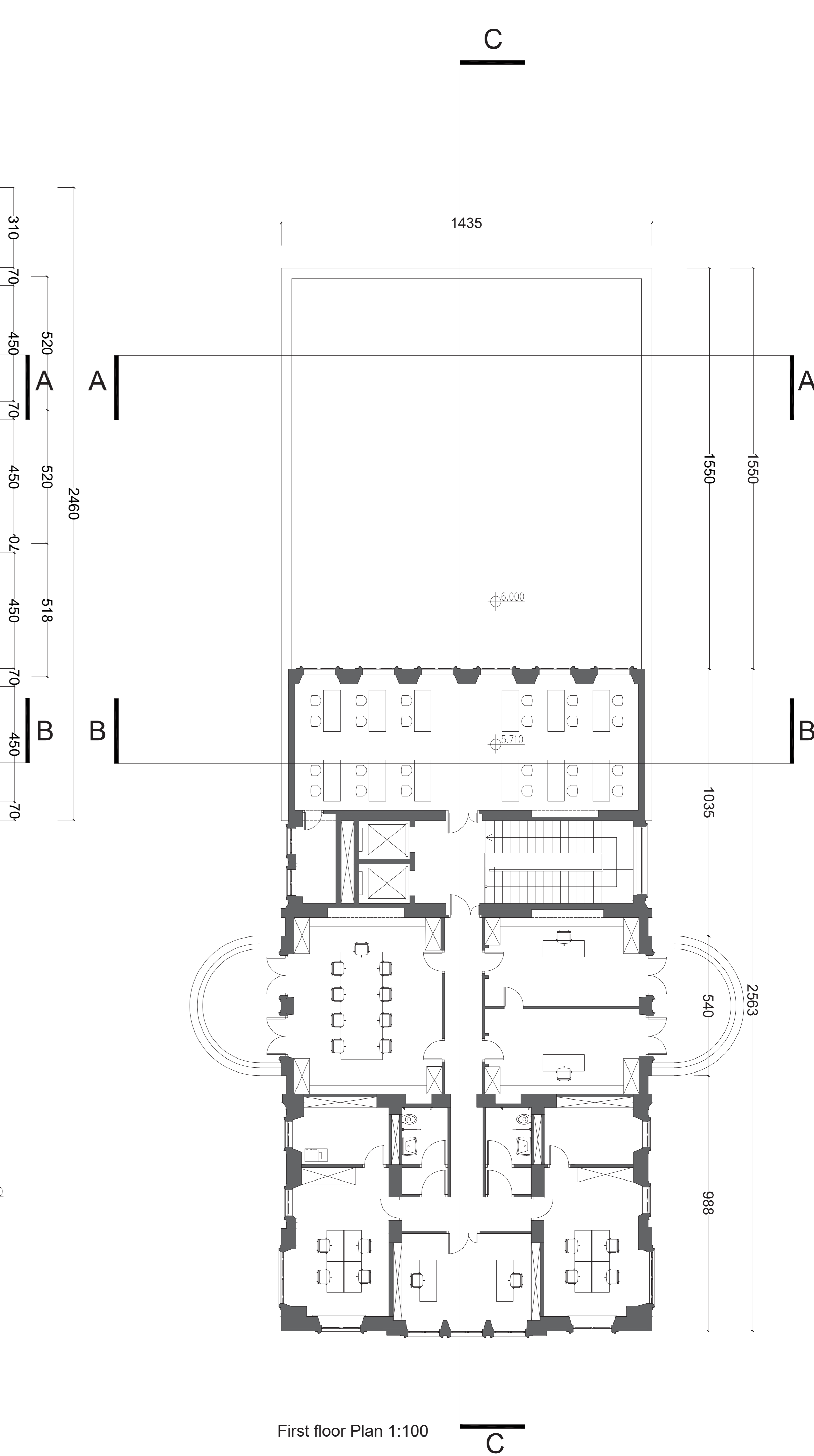




Underground floor Plan 1:100 C



Groundfloor Plan 1:100 C



First floor Plan 1:100 C

Ground floor Plan 1:500

Elevations



North Elevation 1:100



South Elevation 1:100

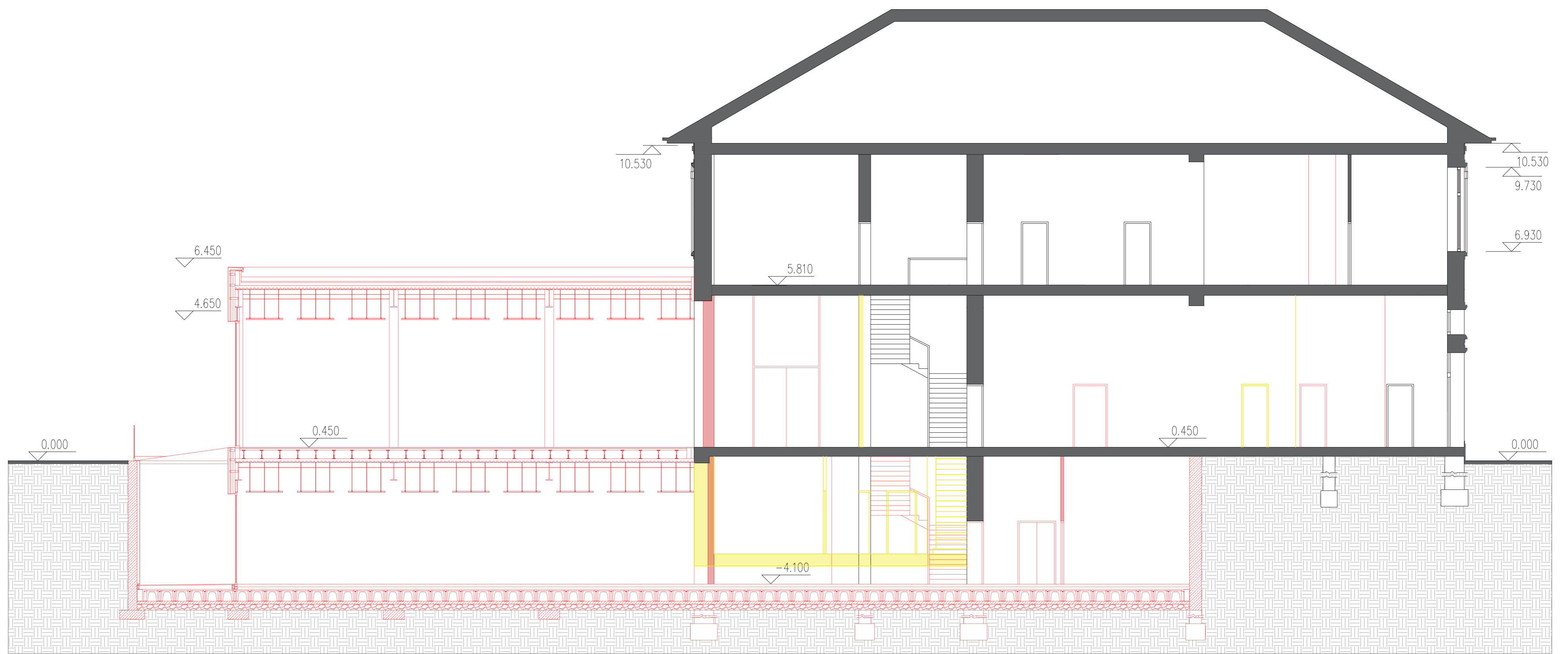


West Elevation 1:100

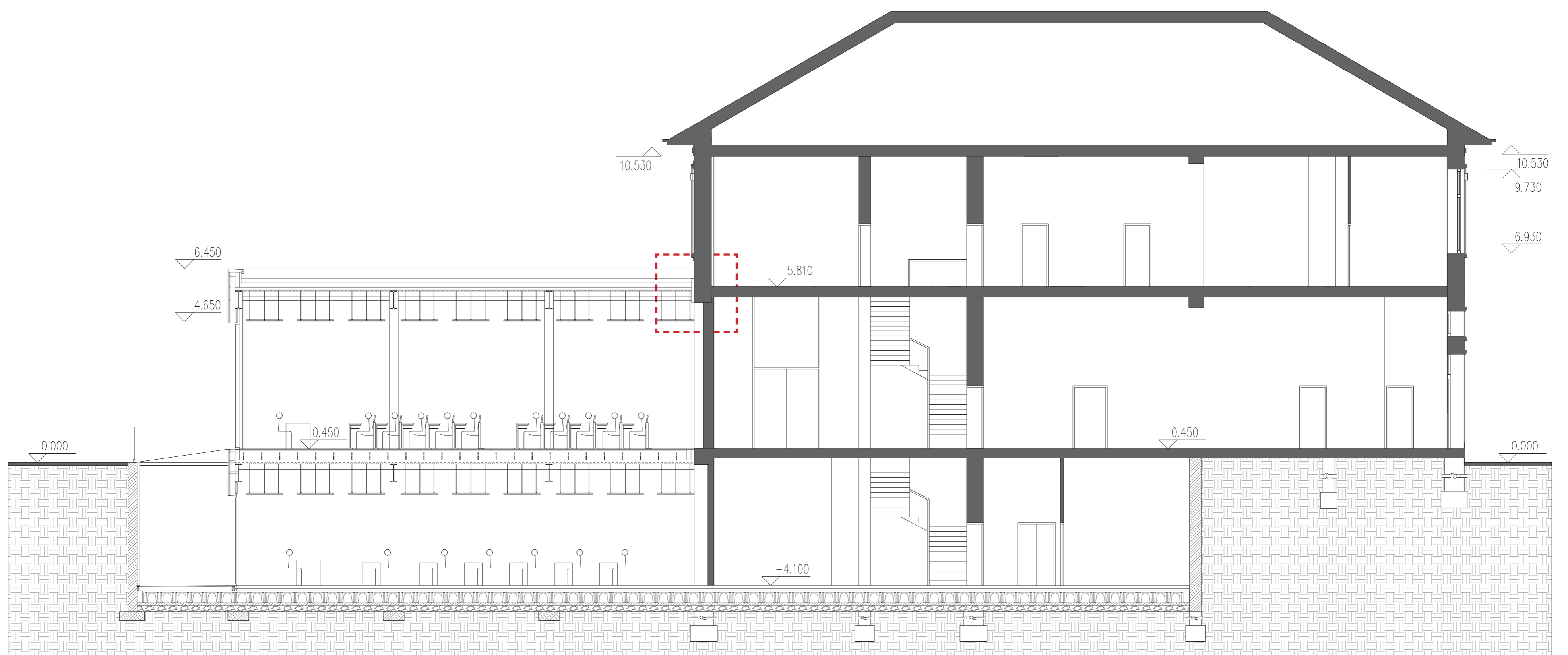


East Elevation 1:100

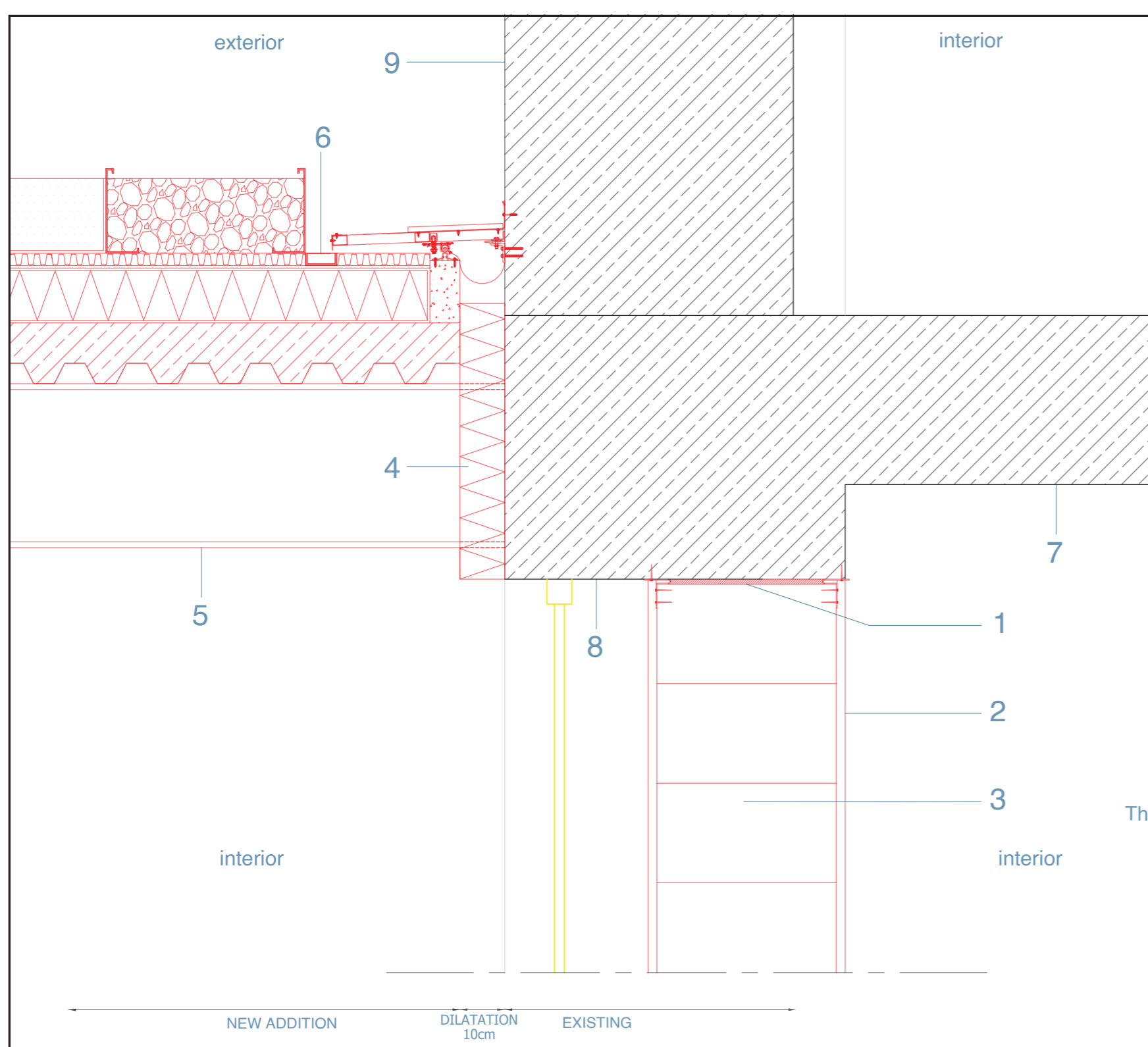
Sections



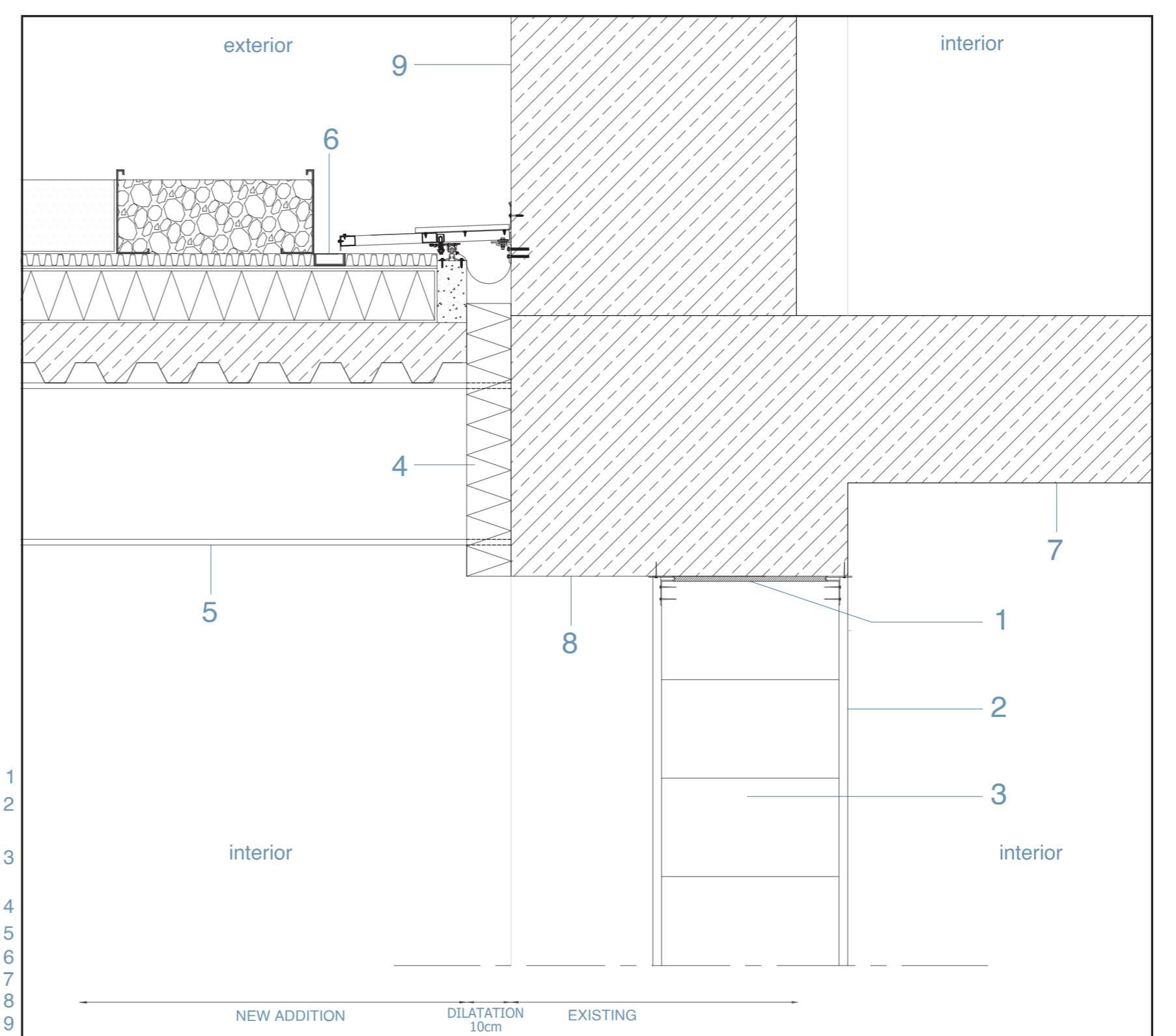
C - C Section 1:100



C - C Section 1:100



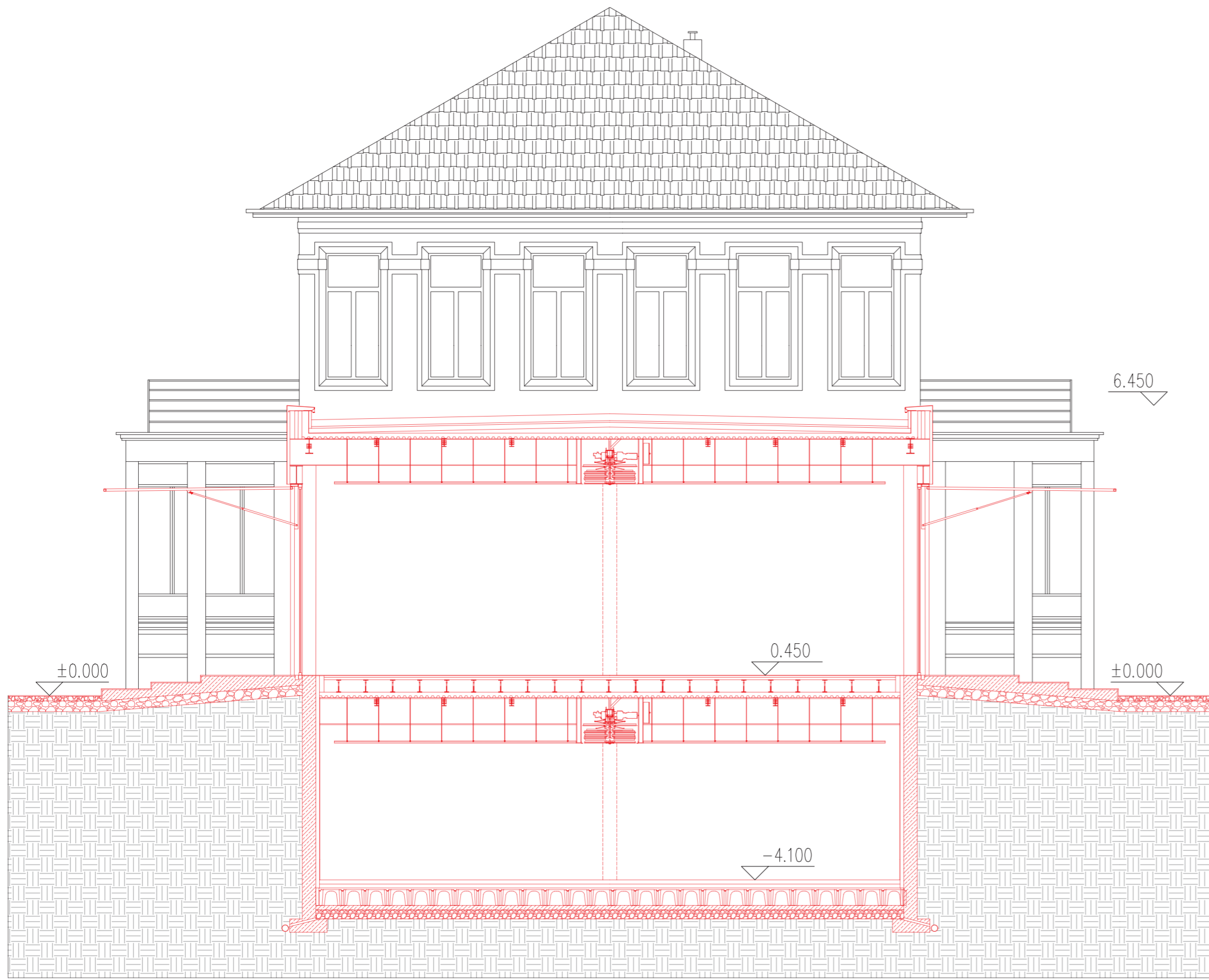
Roof connection detail 1:10



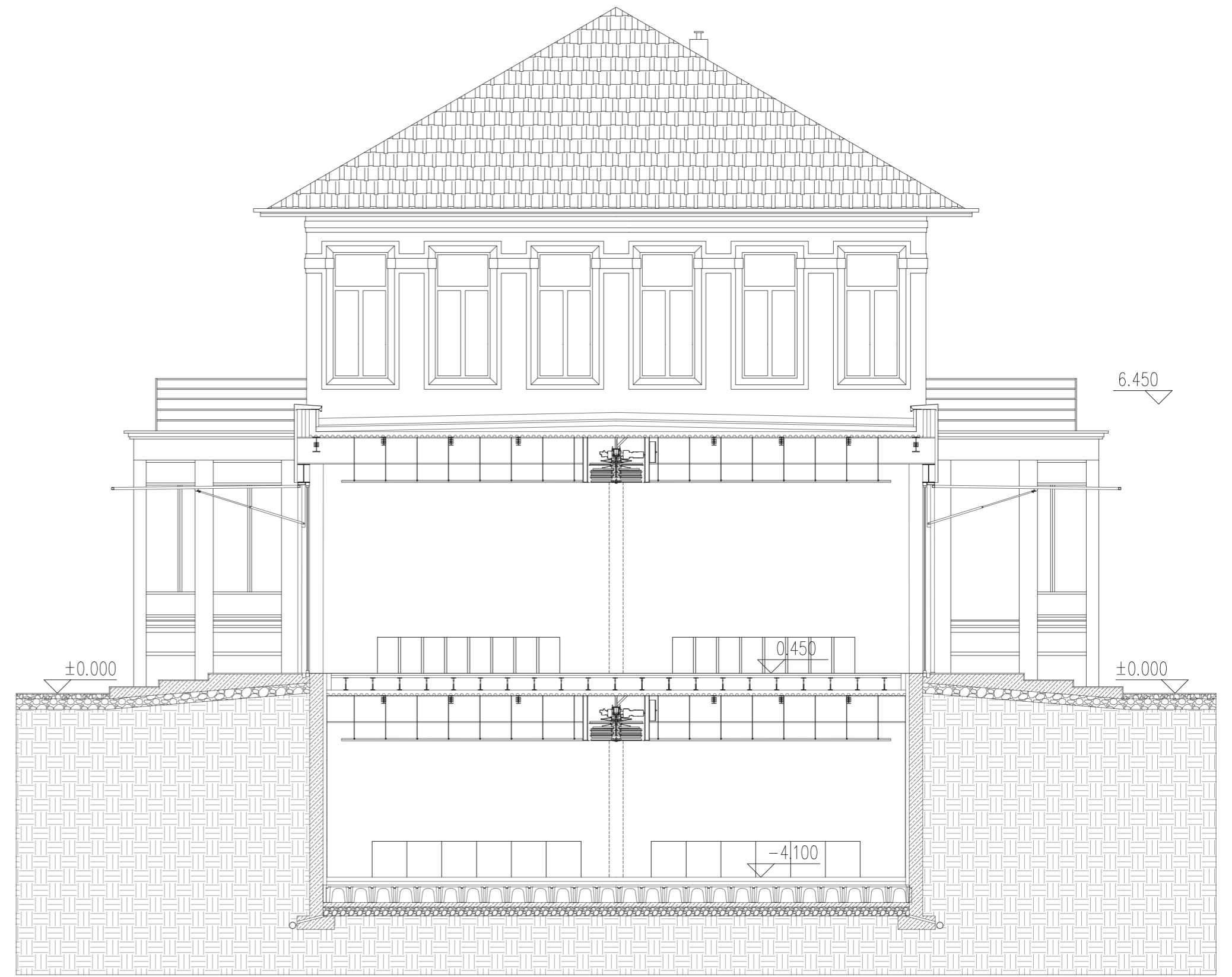
Roof connection detail 1:10

- 1 Polyurethane foam
- 2 Thakon external plasterboard
- 3 18mm (with quartz sand)
- 4 Ytong Climagold block 360mm
- 5 Thermal insulation
- 6 Steel beam IPE330
- 7 Rainwater drainage
- 8 Existing slab
- 9 Existing concrete beam
- Existing exterior wall

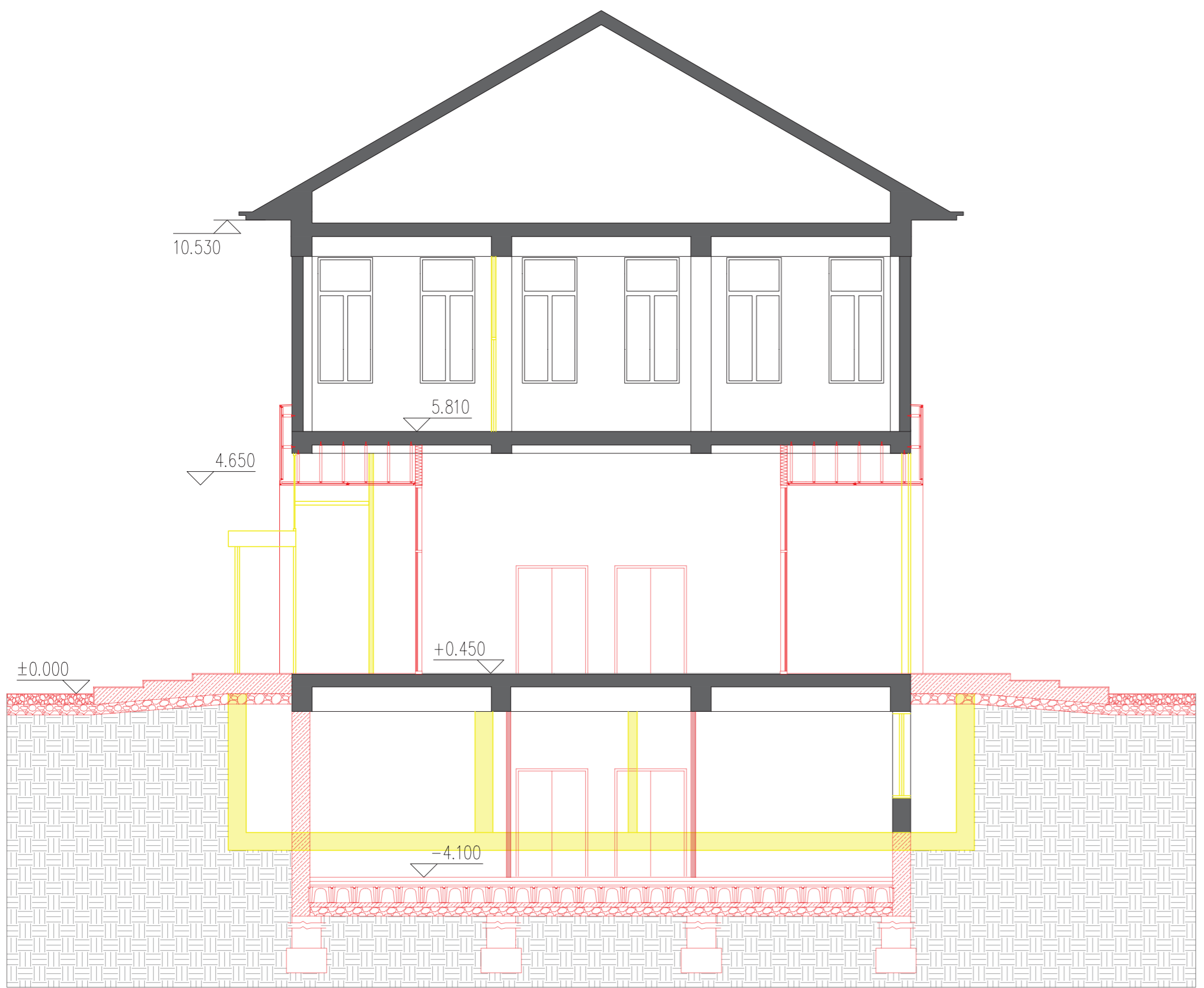
Sections



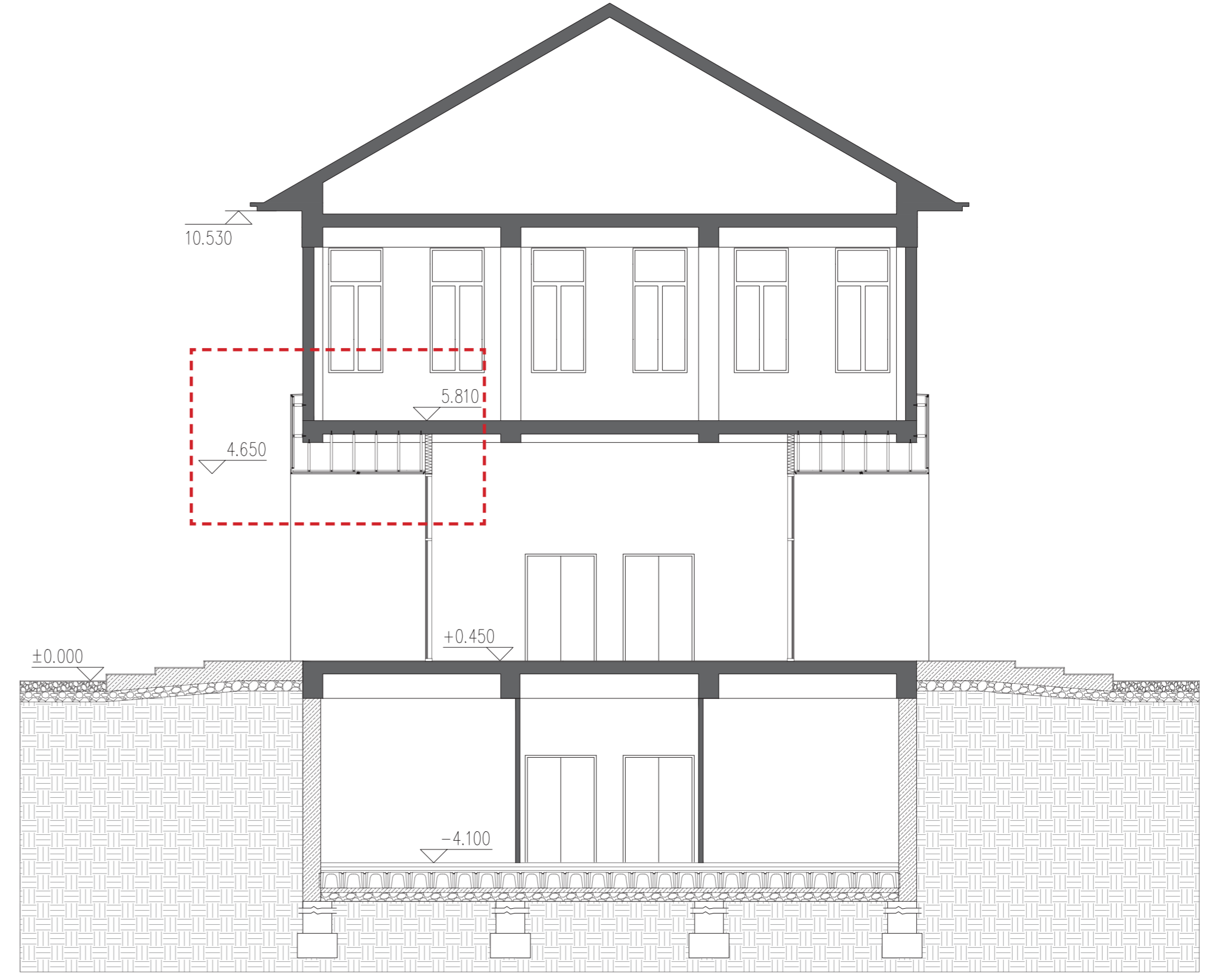
A - A Section 1:100



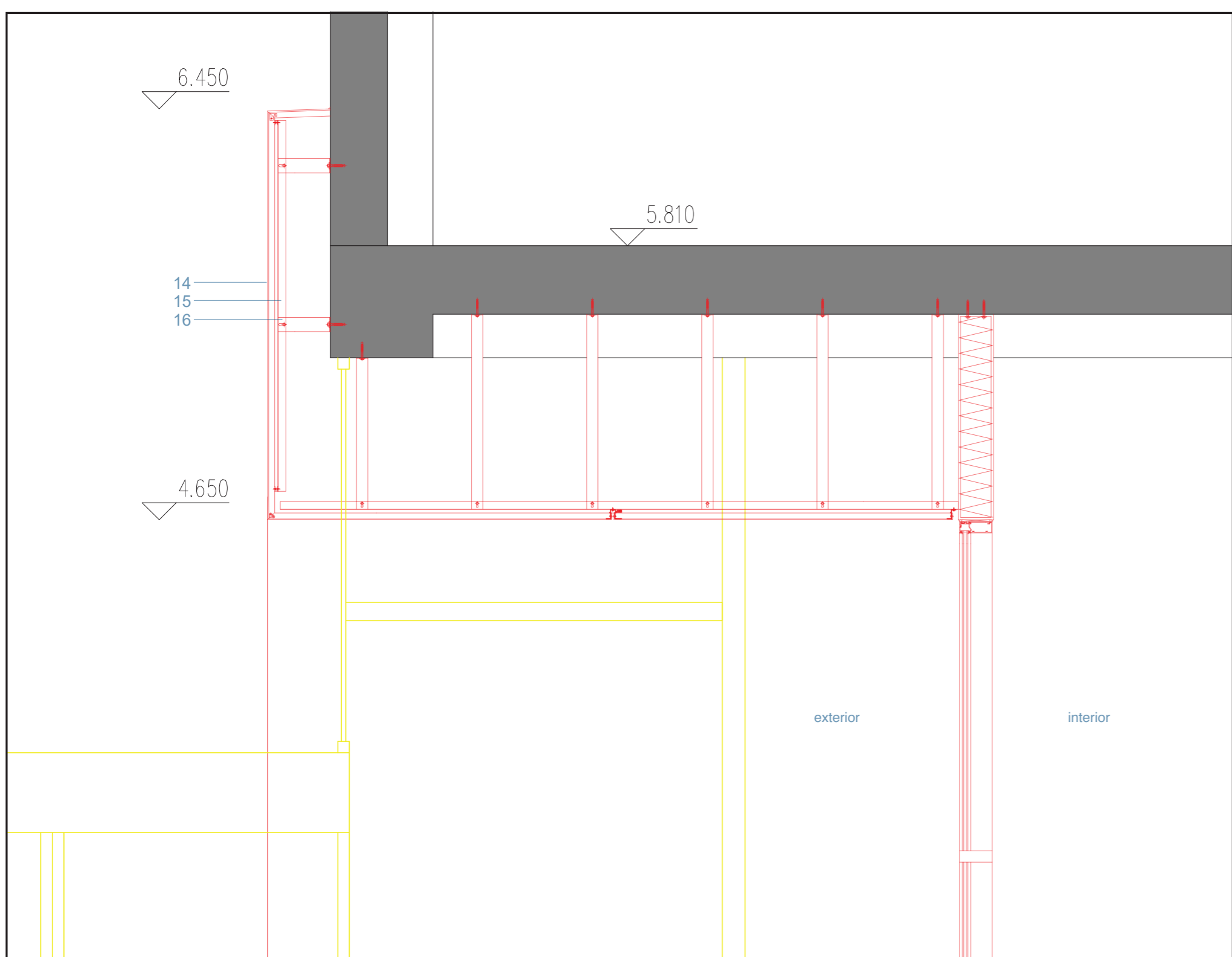
A - A Section 1:100



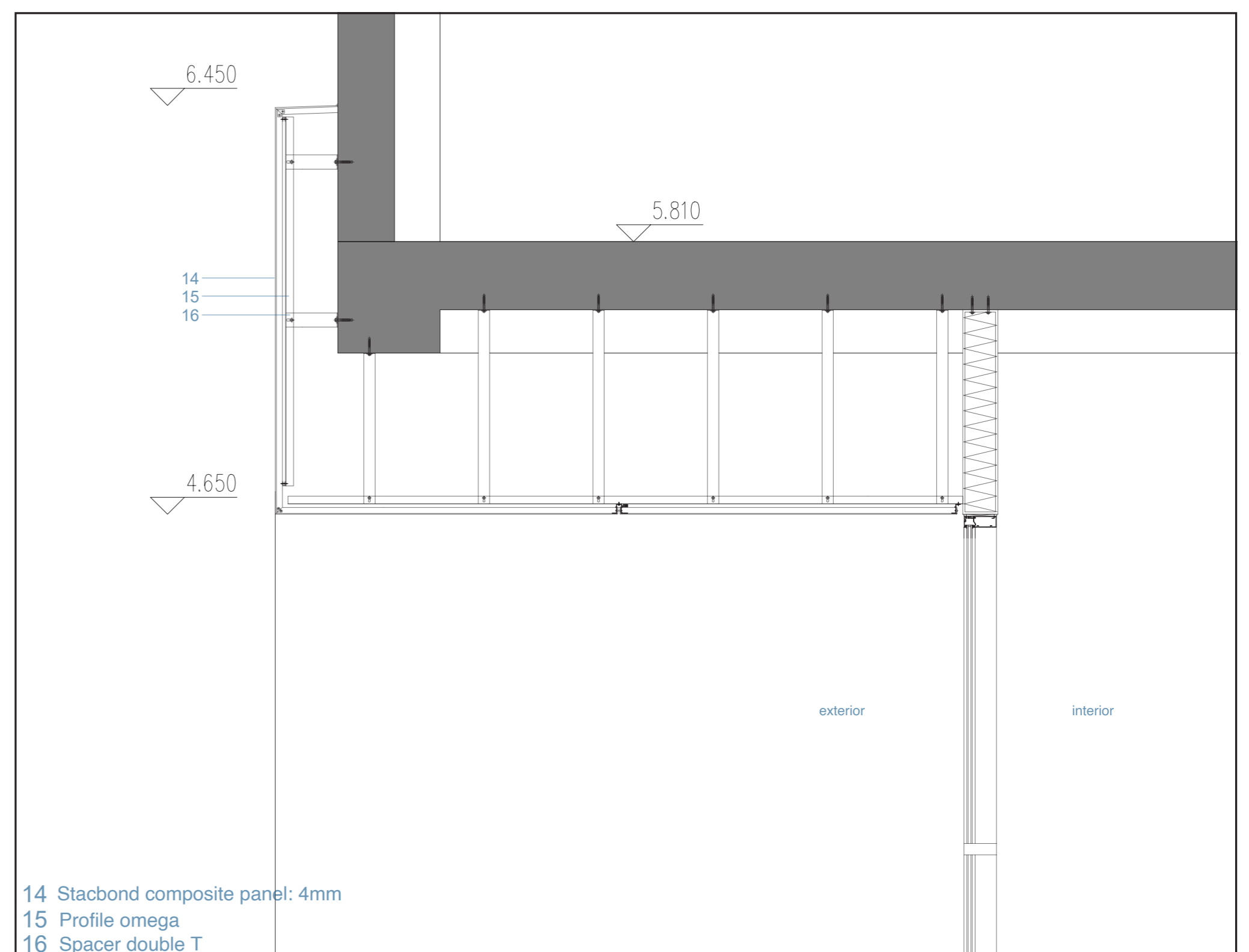
B - B Section 1:100



B - B Section 1:100

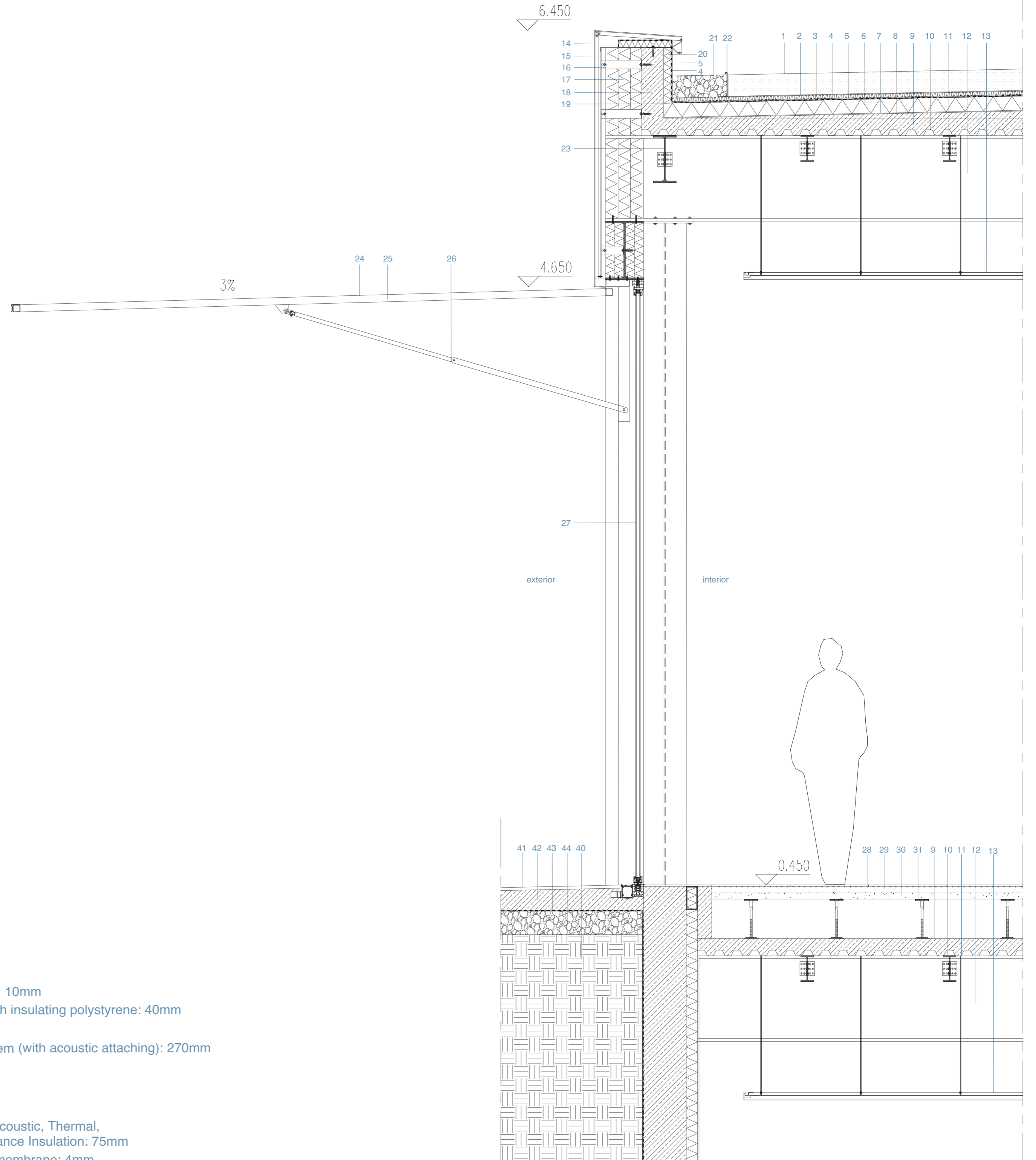
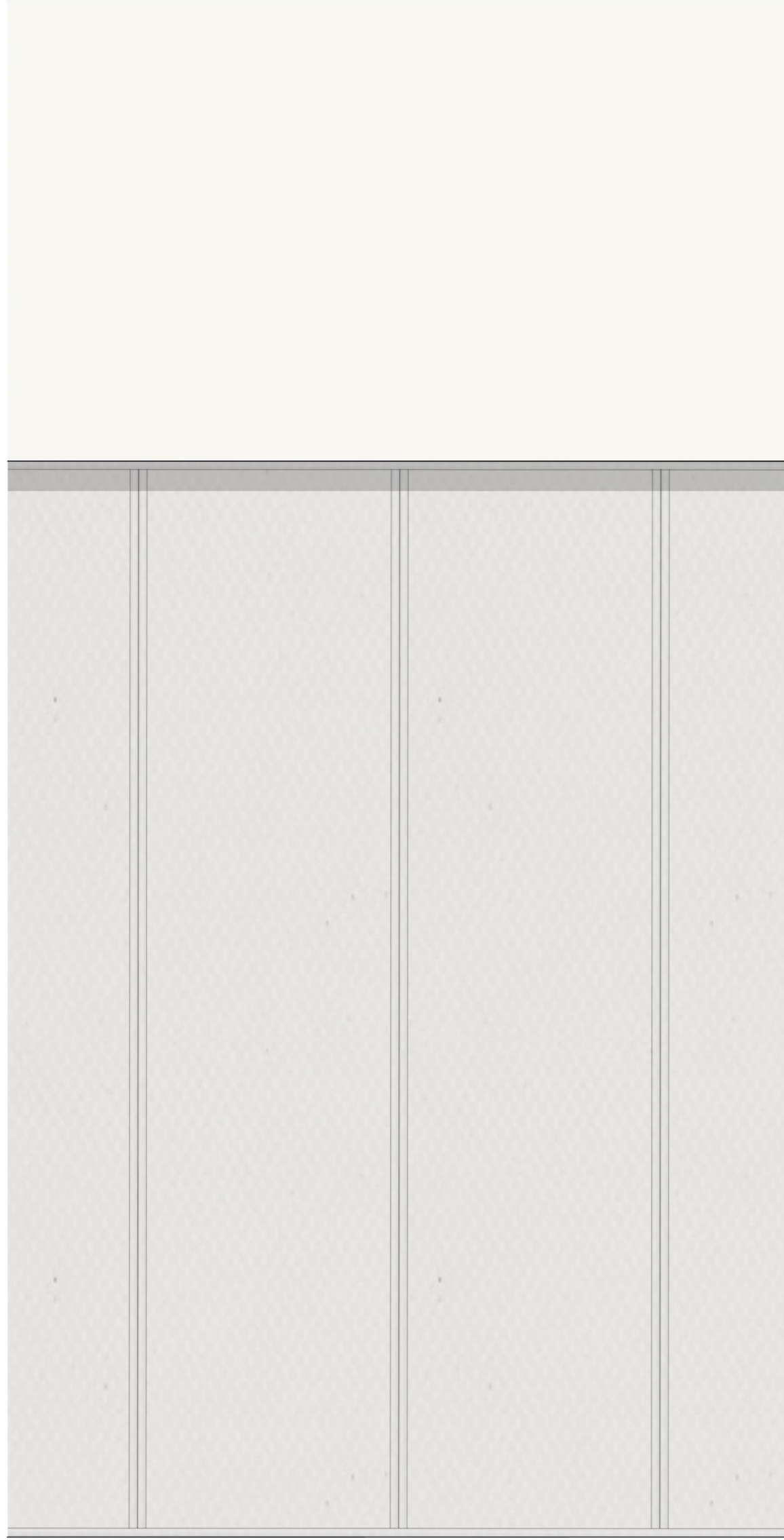
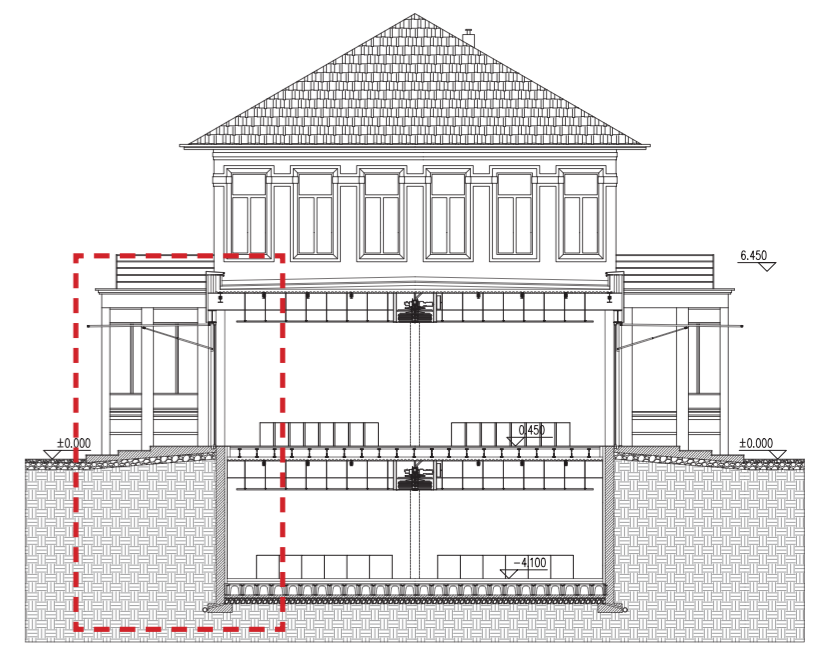


Detail 1:20



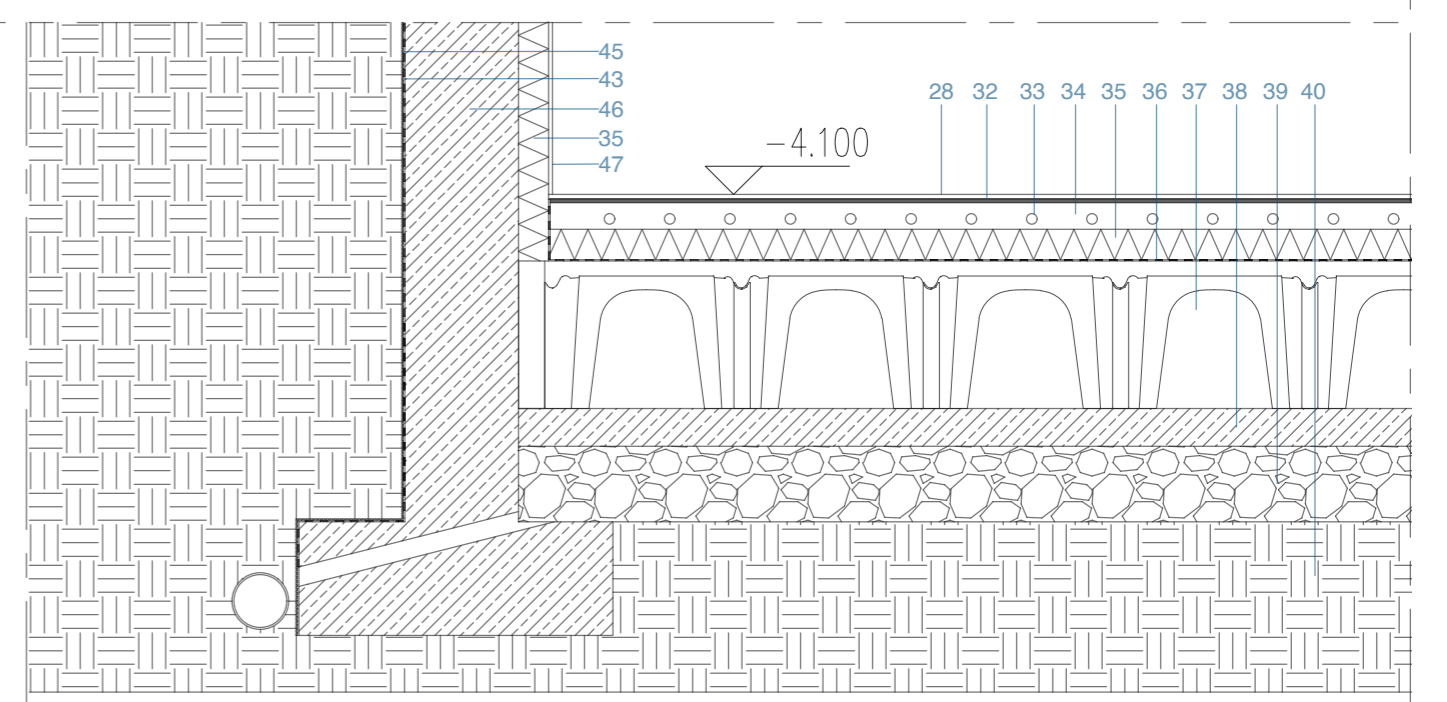
Detail 1:20

14 Stacbond composite panel: 4mm
15 Profile omega
16 Spacer double T



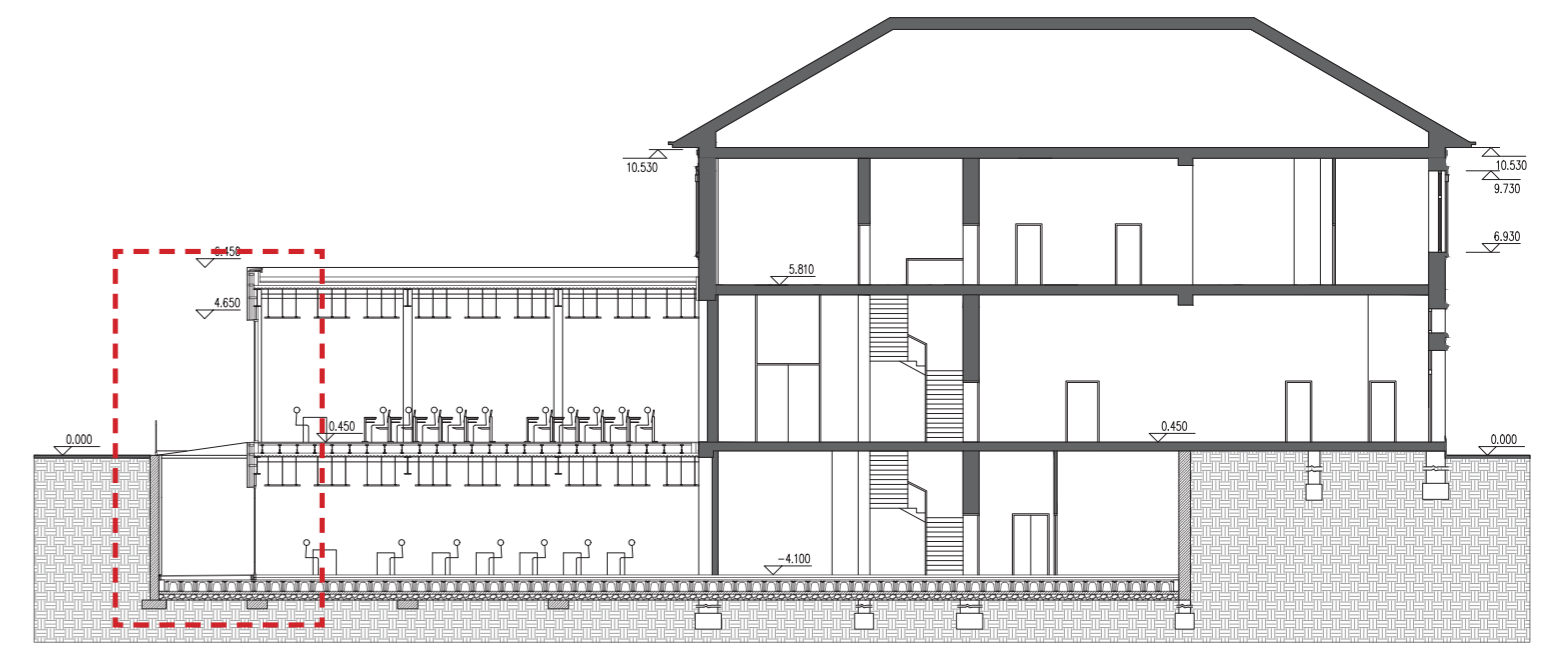
- 1 Planting soil: 150mm
- 2 Filtering layer (geotextile): 2mm
- 3 Draining layer: 25mm
- 4 Root barrier
- 5 Waterproof membrane
- 6 Thermal insulation: 100mm
- 7 Vapour barrier: 4mm
- 8 Concrete (2% slope)
- 9 Concrete slab: 120mm
- 10 Metal deck
- 11 Secondary steel beam IPE180
- 12 Primary steel beam IPE600
- 13 Acoustic suspended ceiling raft
- 14 Stacbond composite panel: 4mm
- 15 Profile omega
- 16 Spacer double T
- 17 Rockwool thermal insulation: 150mm
- 18 Concrete parapet: 150mm
- 19 Vapour barrier: 4mm
- 20 Thermal insulation: 50mm
- 21 Gravel: 150mm
- 22 Metal support
- 23 Primary steel beam IPE330
- 24 Shading fabric
- 25 Hydraulic single swing system
- 26 Hydraulic ram
- 27 Aluminum folding glass door

- 28 Indoor pavement: 10mm
- 29 Radiant panel with insulating polystyrene: 40mm
- 30 Screed: 50mm
- 31 Raised floor system (with acoustic attaching): 270mm
- 32 Mortar: 10mm
- 33 Screed: 70mm
- 34 UFH tube: 10mm
- 35 Rockwool RW3 Acoustic, Thermal, and Fire Performance Insulation: 75mm
- 36 Flexter Testudo membrane: 4mm
- 37 Iglu ventilated cavities: 350mm
- 38 Concrete Slab: 100mm
- 39 Gravel: 200mm
- 40 Earth
- 41 External flooring: 20mm
- 42 Concrete: 170mm (2% slope)
- 43 Flexter Testudo membrane: 4mm
- 44 Gravel: 160mm
- 45 Protefon Tex drainage sheet: 4mm
- 46 Concrete wall: 300mm
- 47 Knauf Sheetrock wall plasterboard: 10mm
- 49 Double glazed aluminum storefront
- 50 External flooring: 20mm
- 51 Screed: 150mm
- 52 Fine gravel: 100mm
- 53 Glass railing

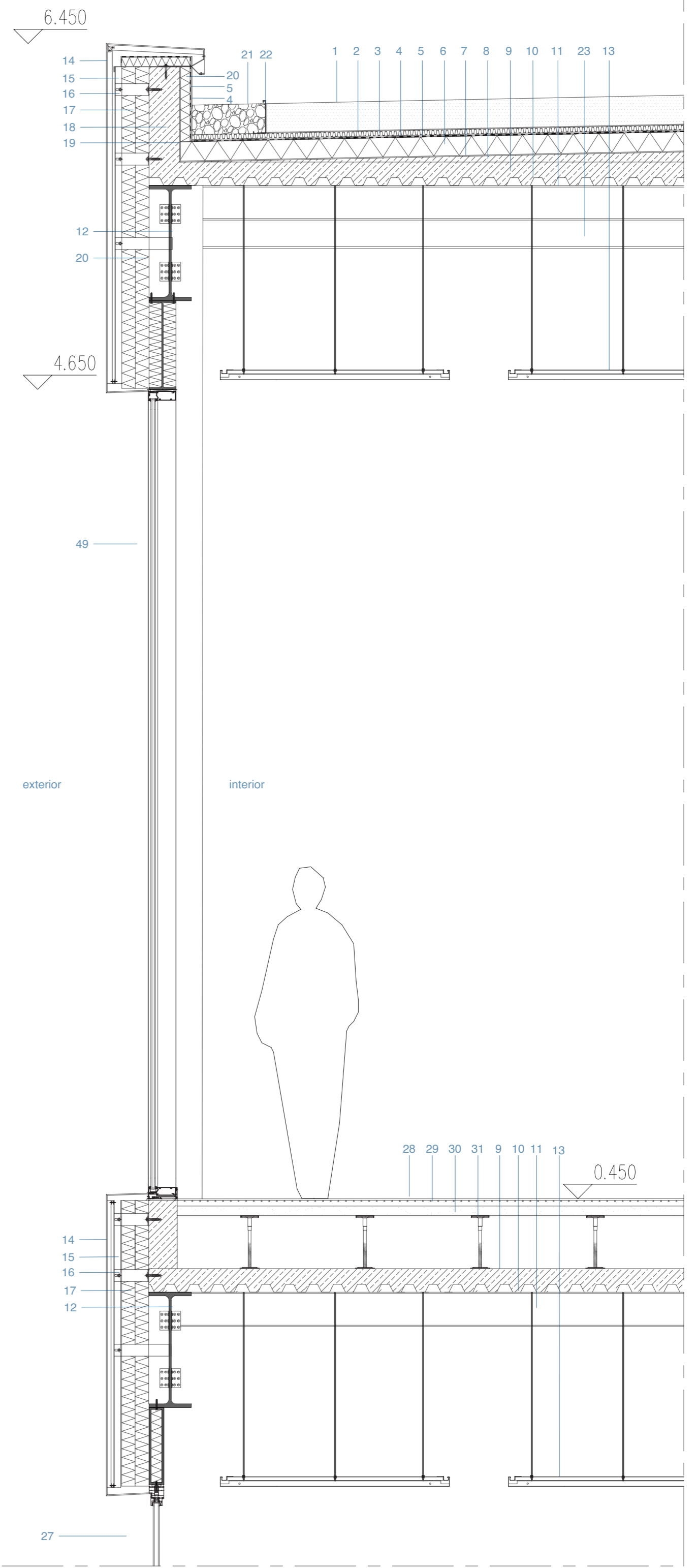
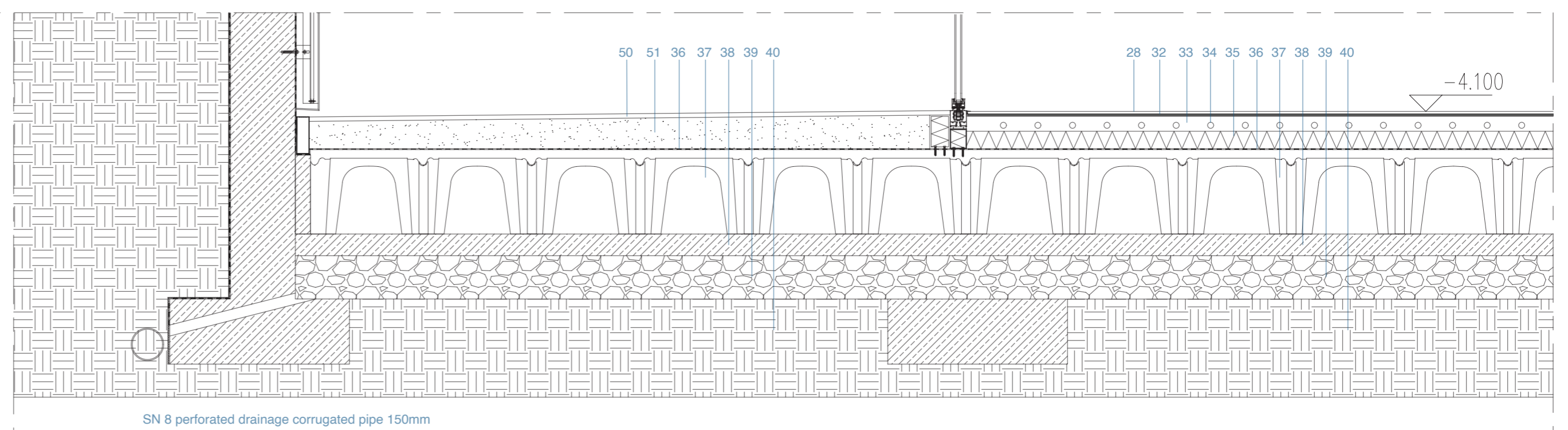
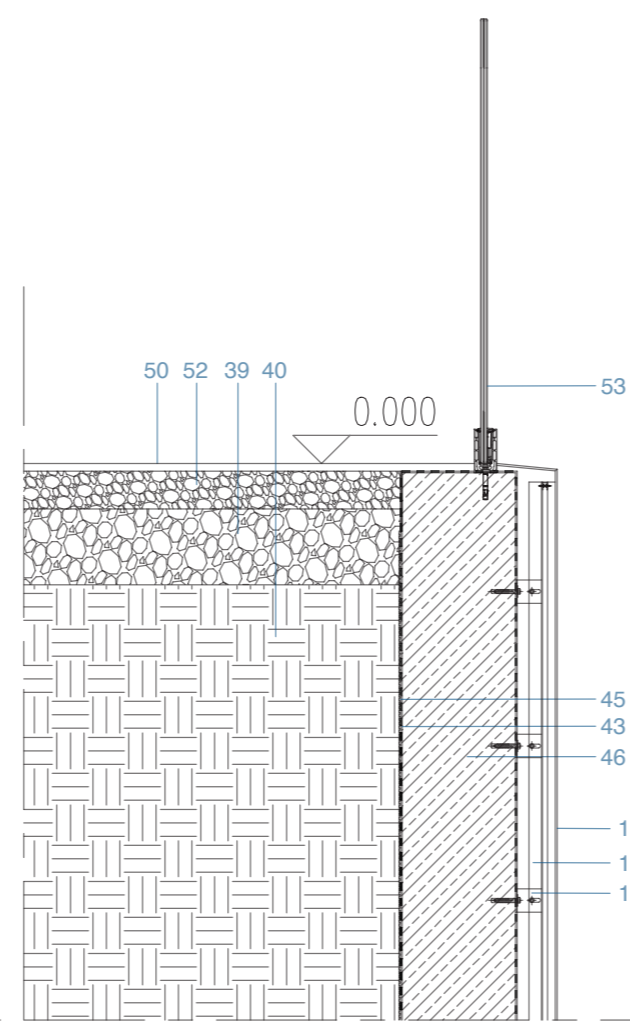


Detail Section 1:20

Details



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Detail Section 1:20

