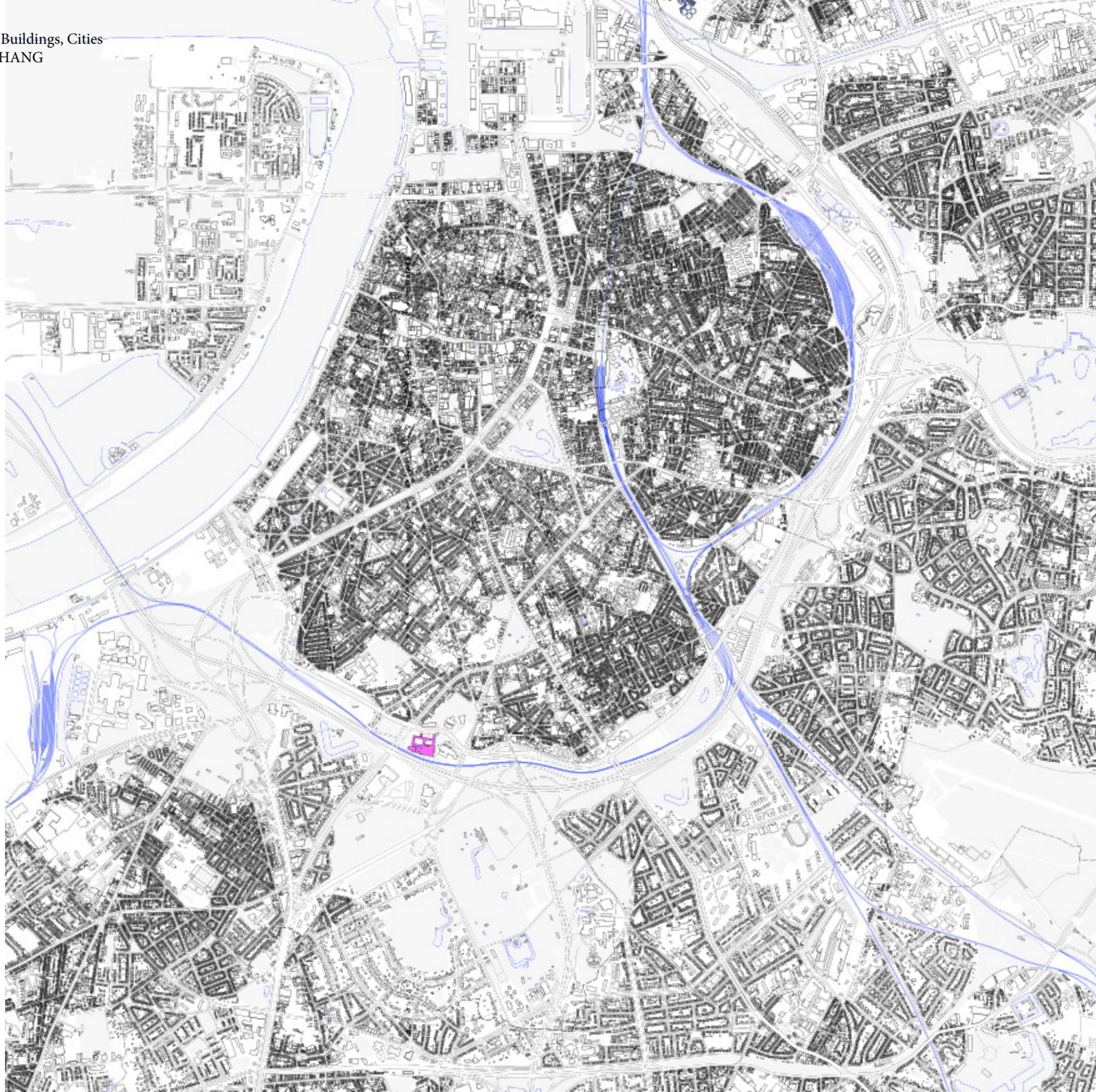
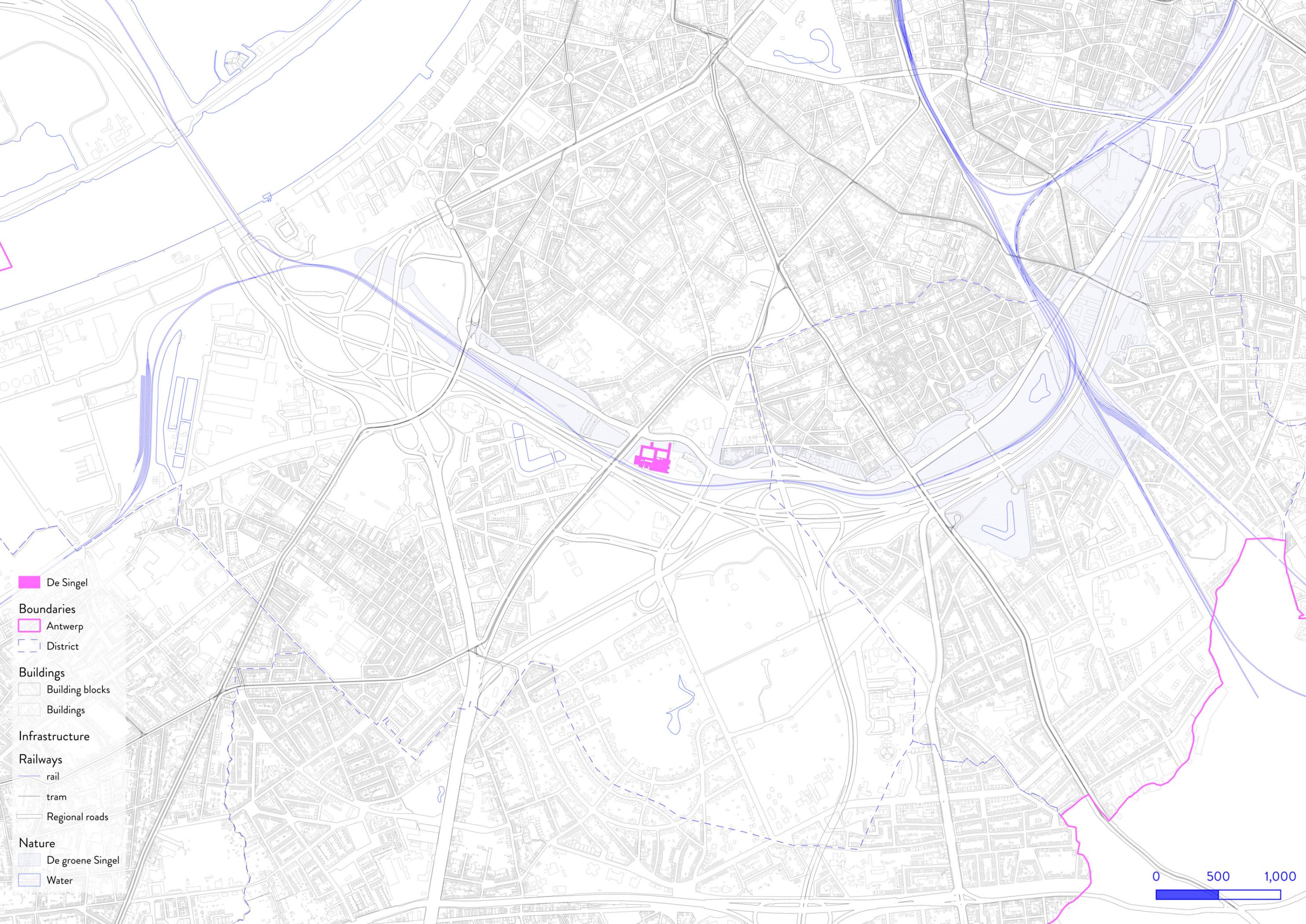


Interiors, Buildings, Cities  
Yuqing ZHANG





De Singel

Boundaries

Antwerp

District

Buildings

Building blocks

Buildings

Infrastructure

Railways

rail

tram

Regional roads

Nature

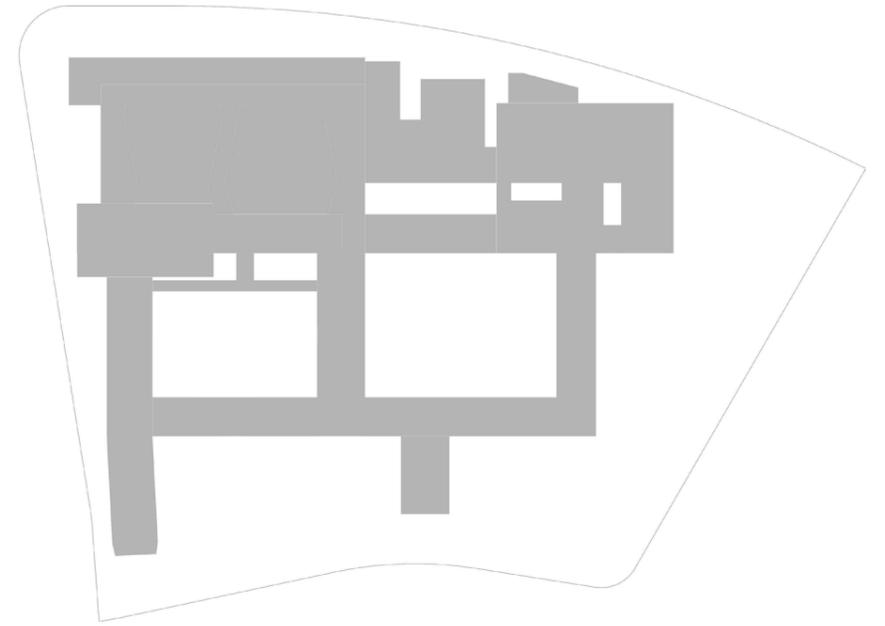
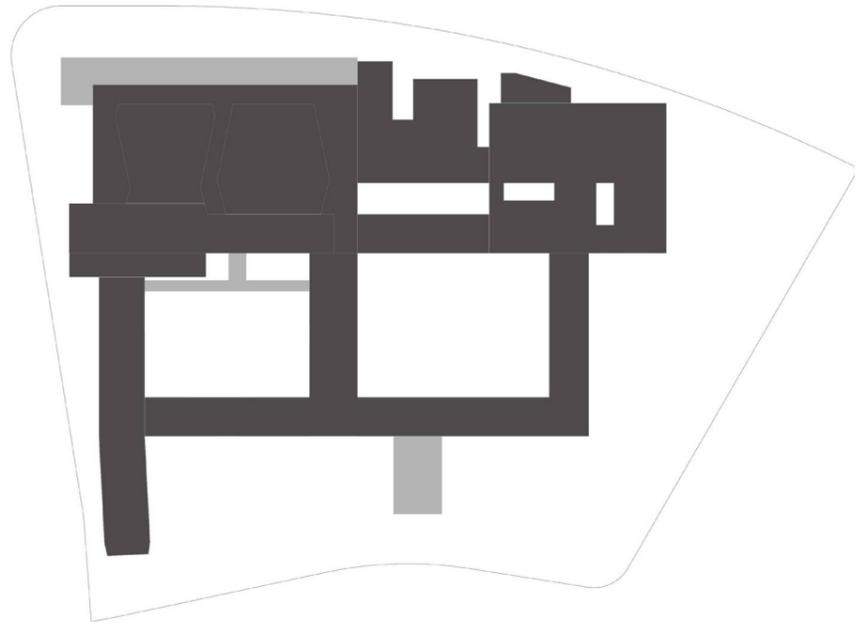
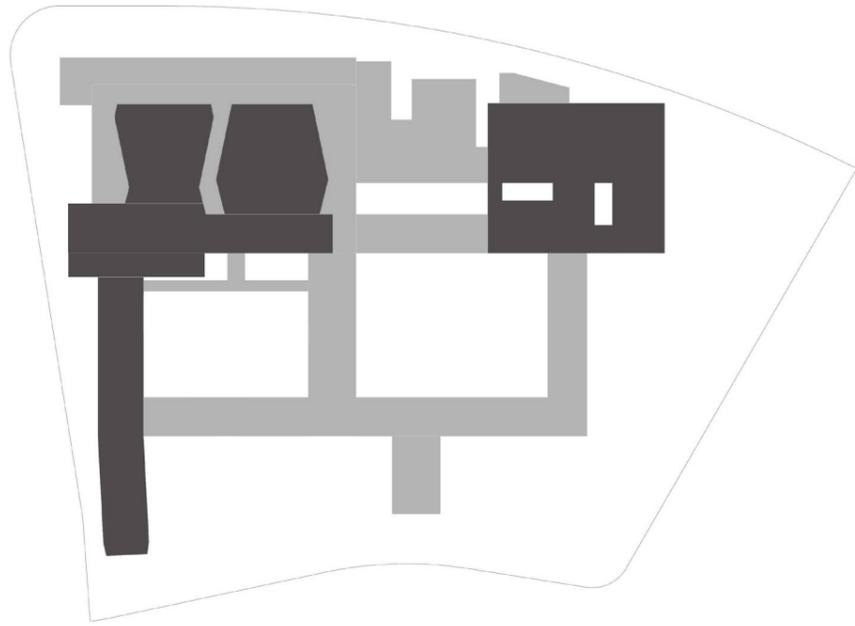
De groene Singel

Water

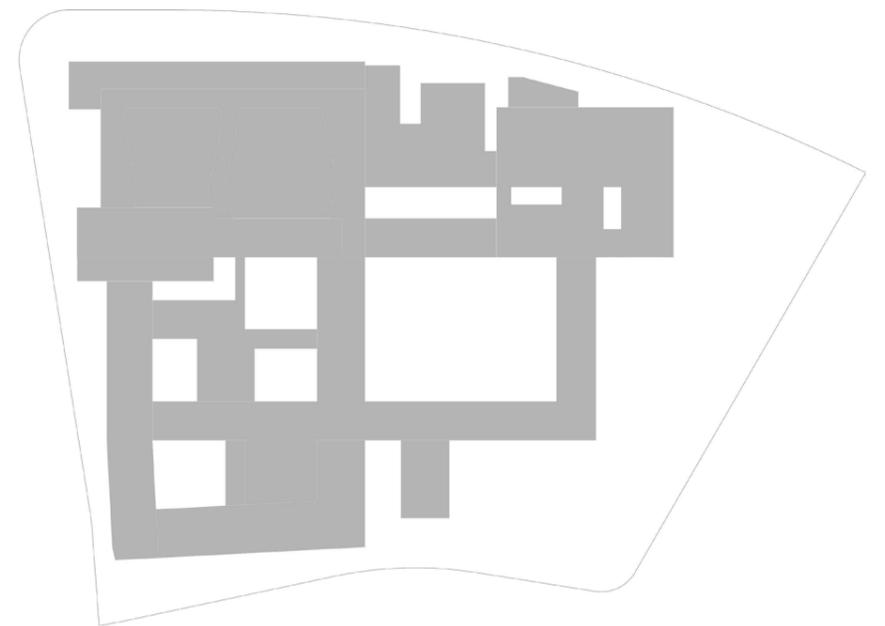
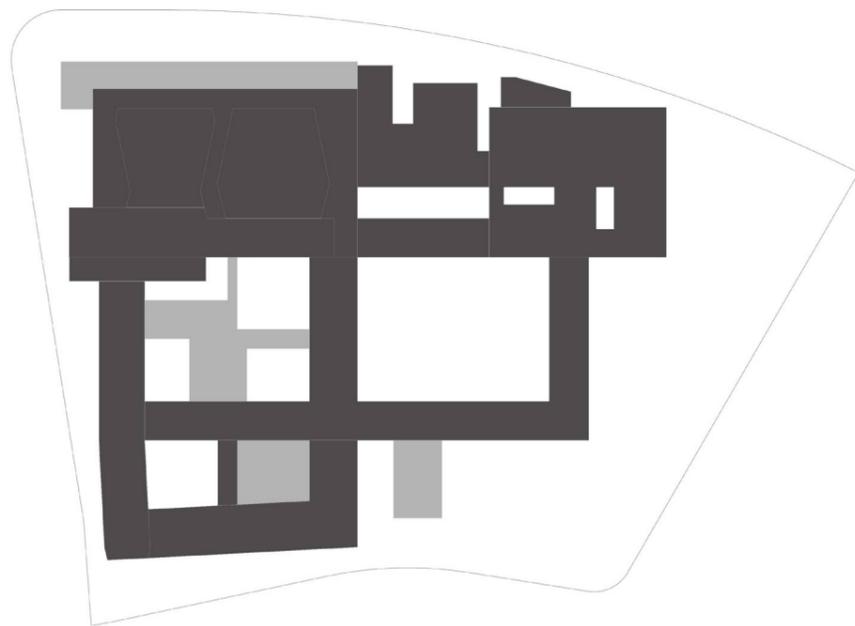
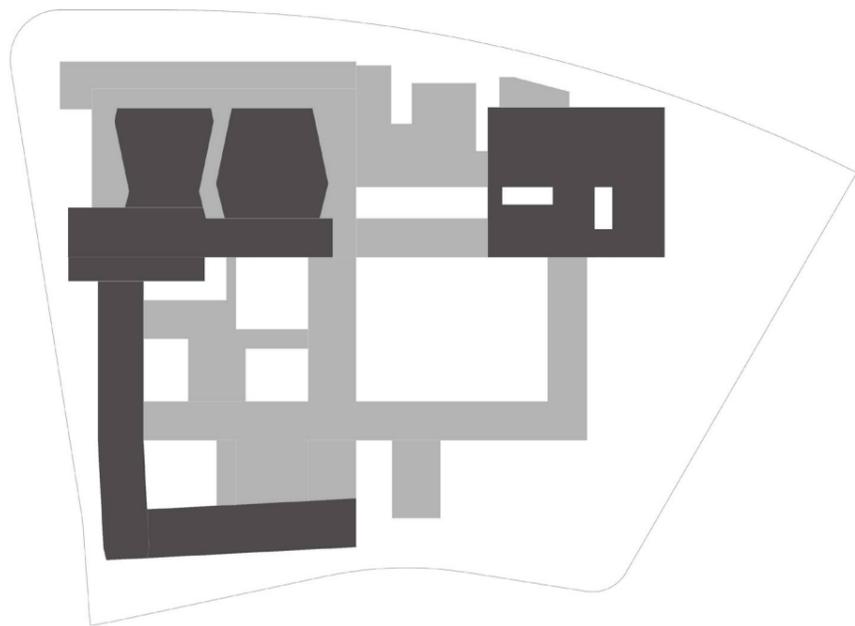
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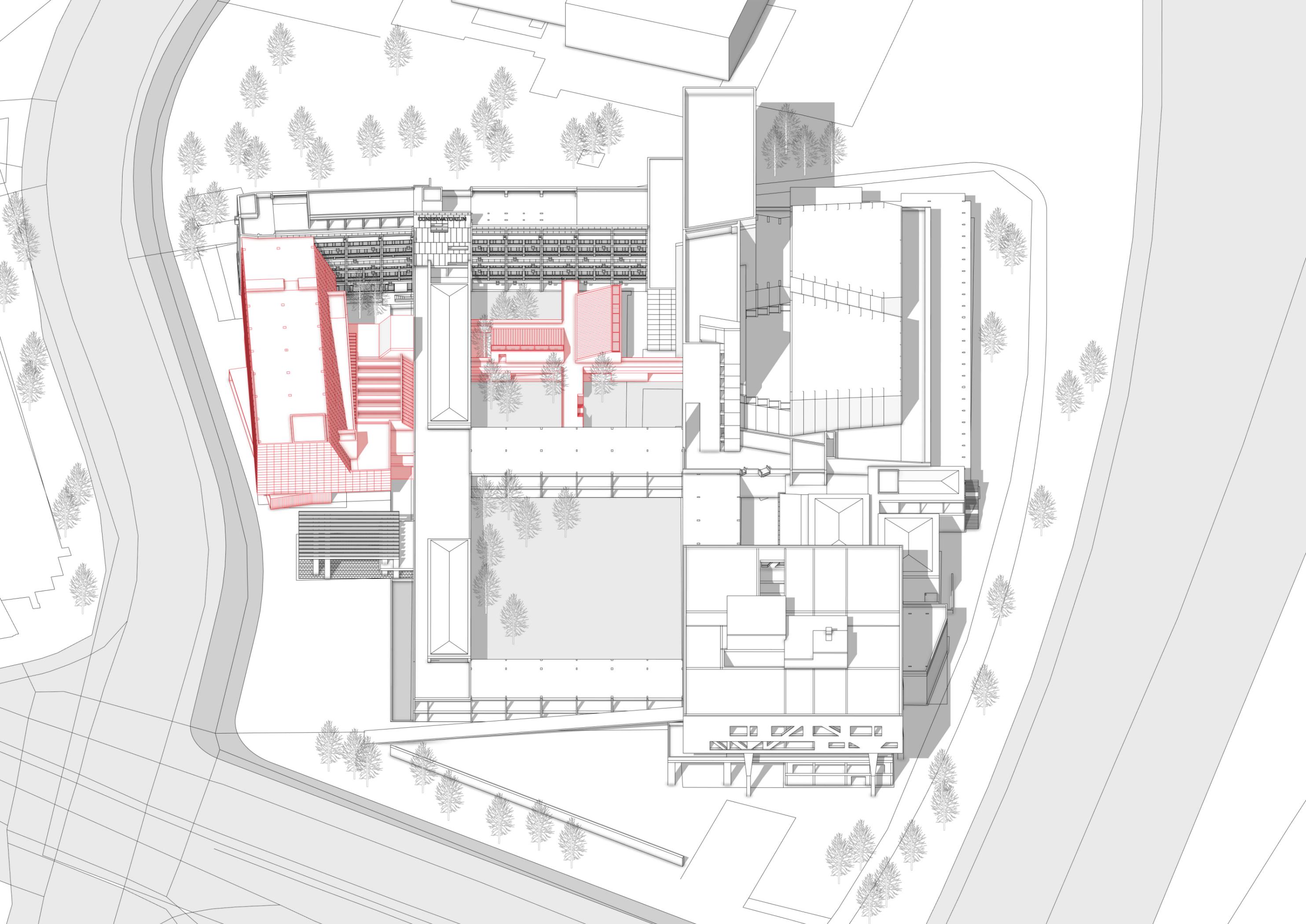


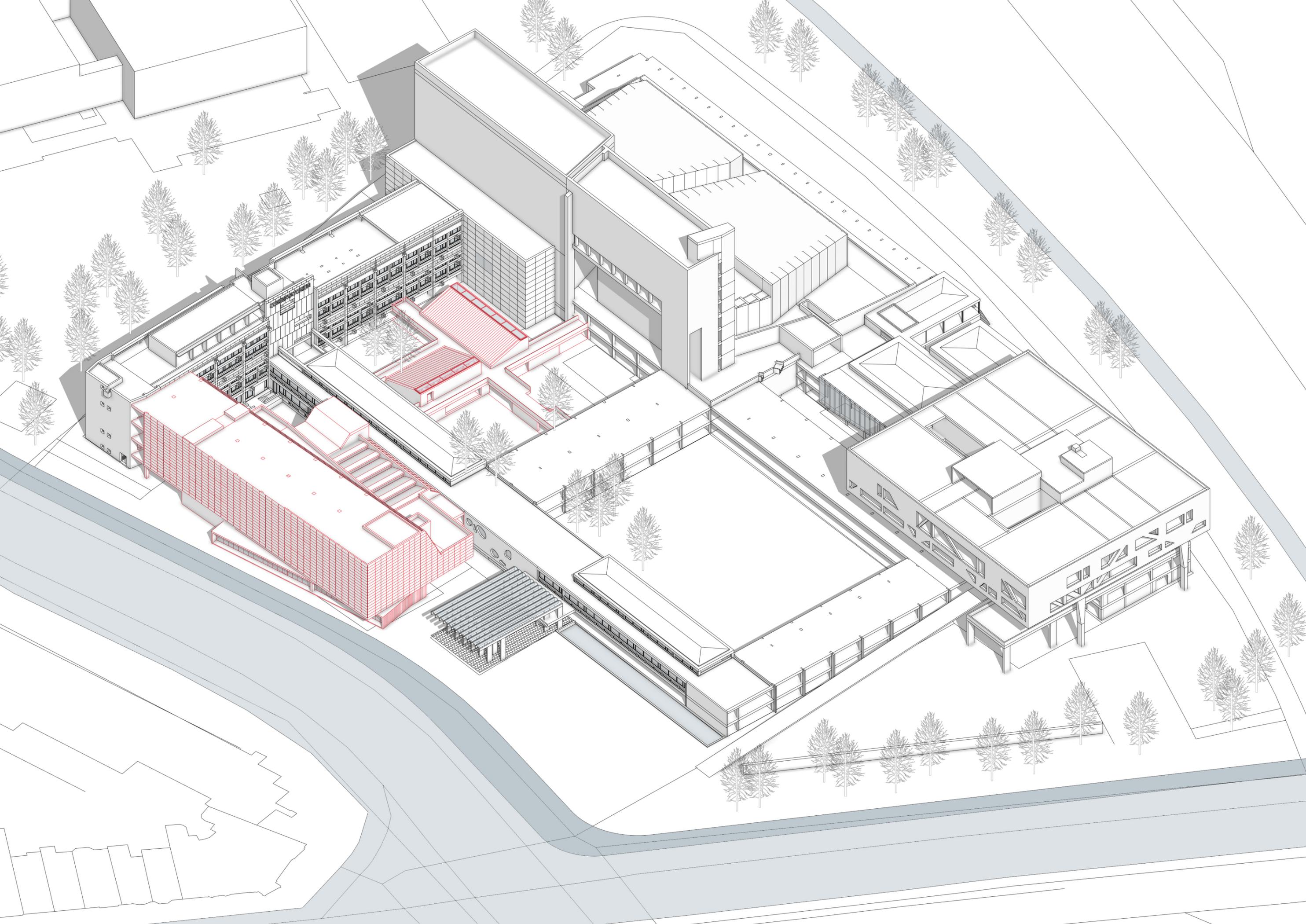
**Before**

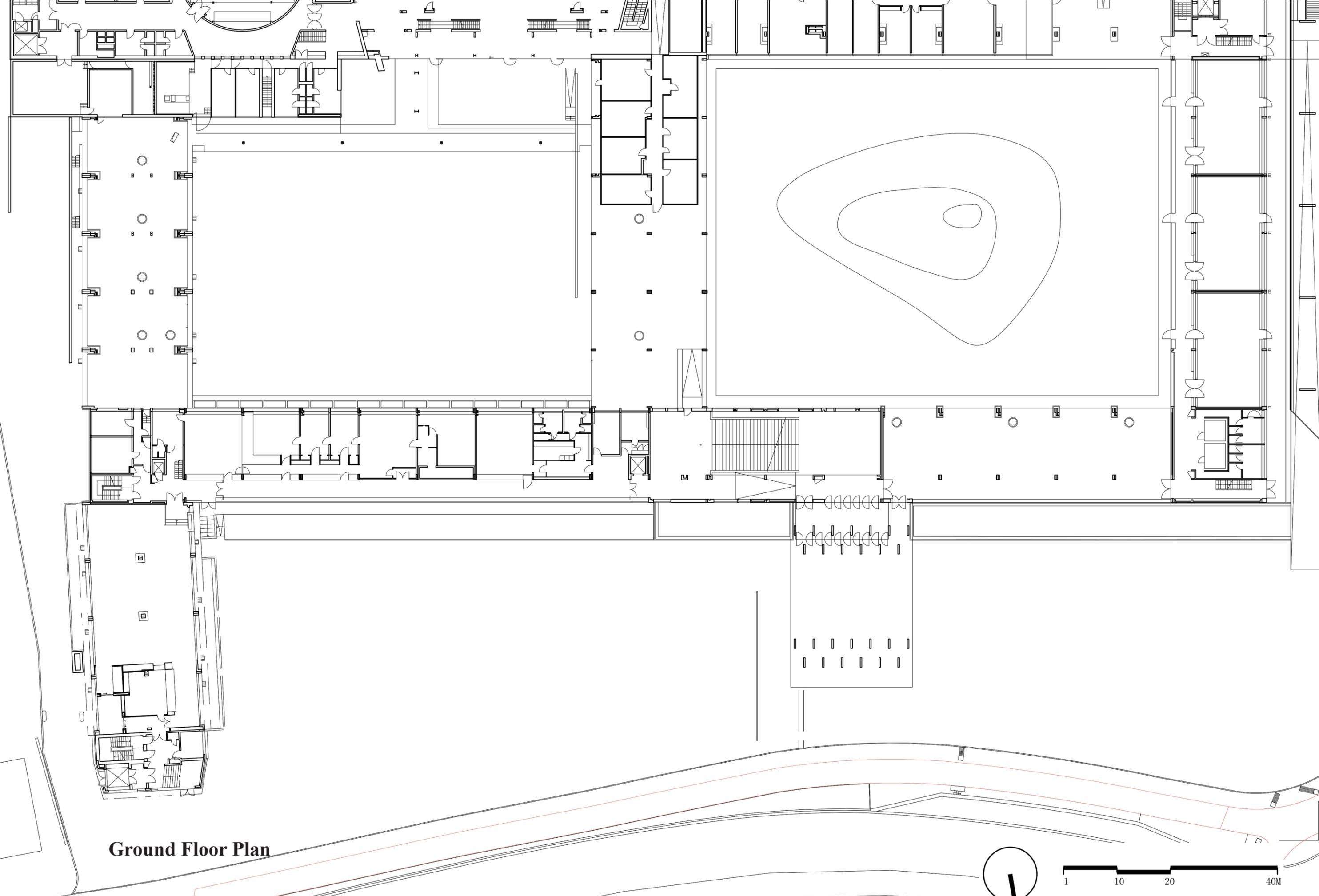


**After**



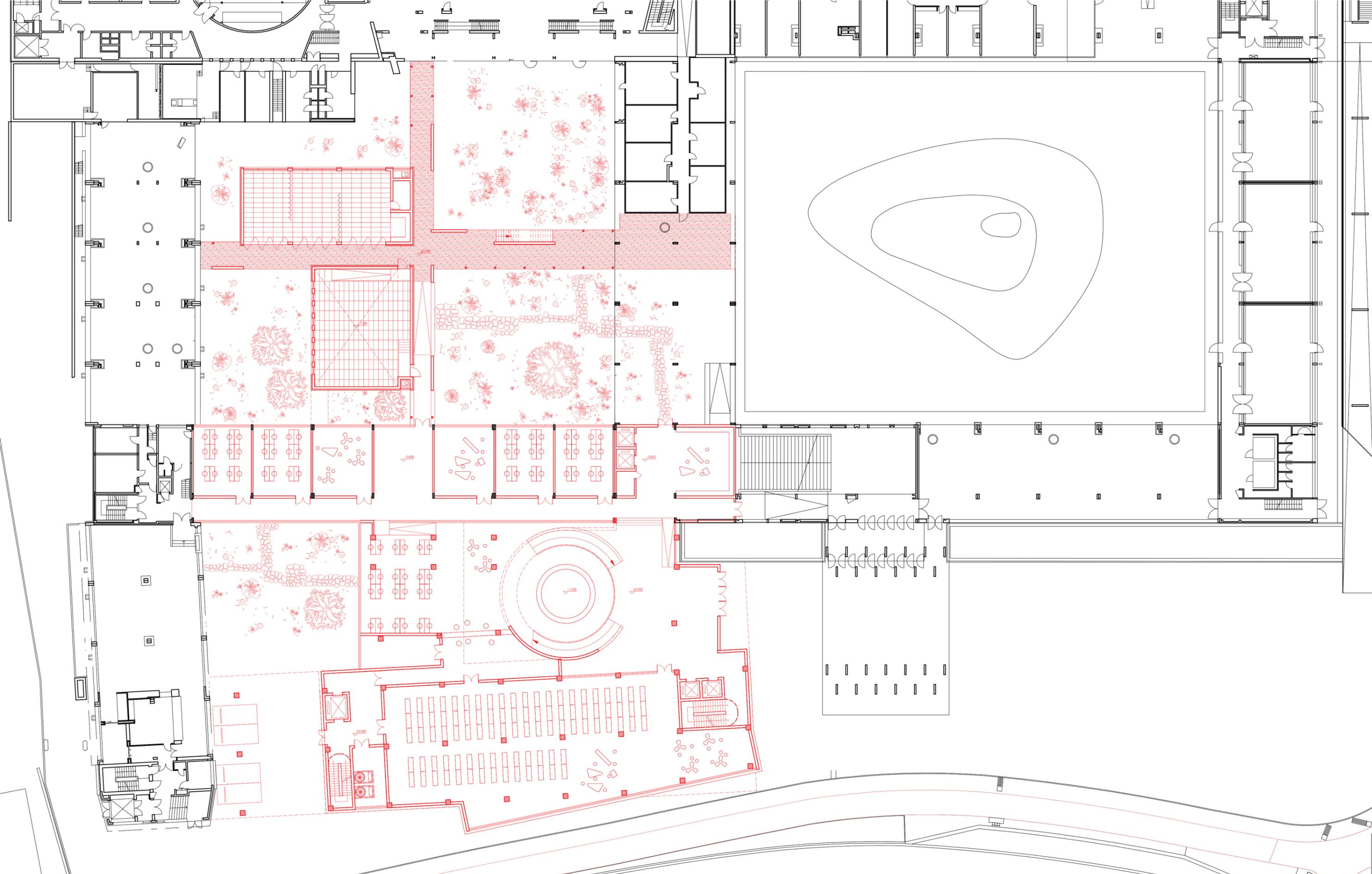




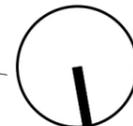


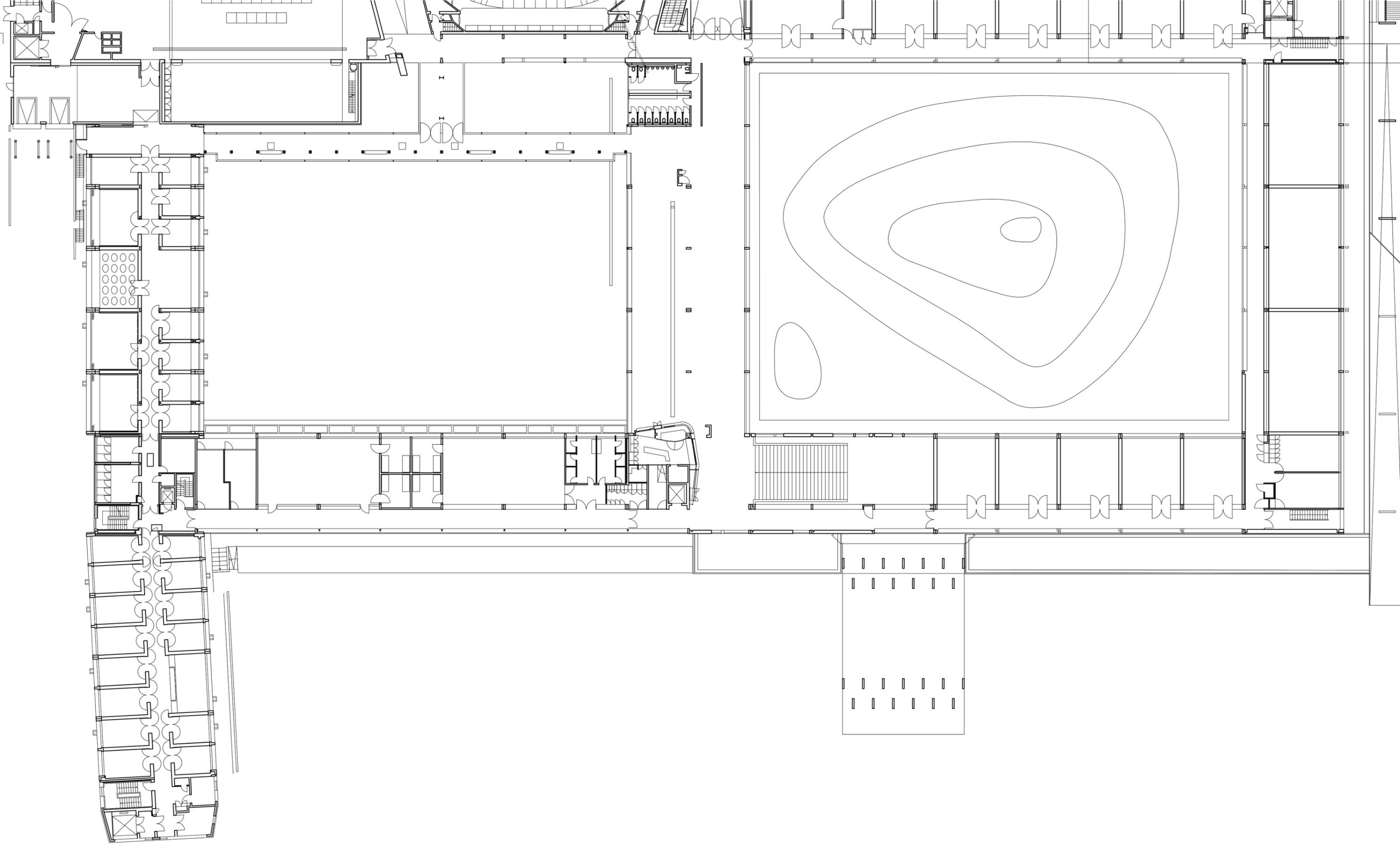
**Ground Floor Plan**





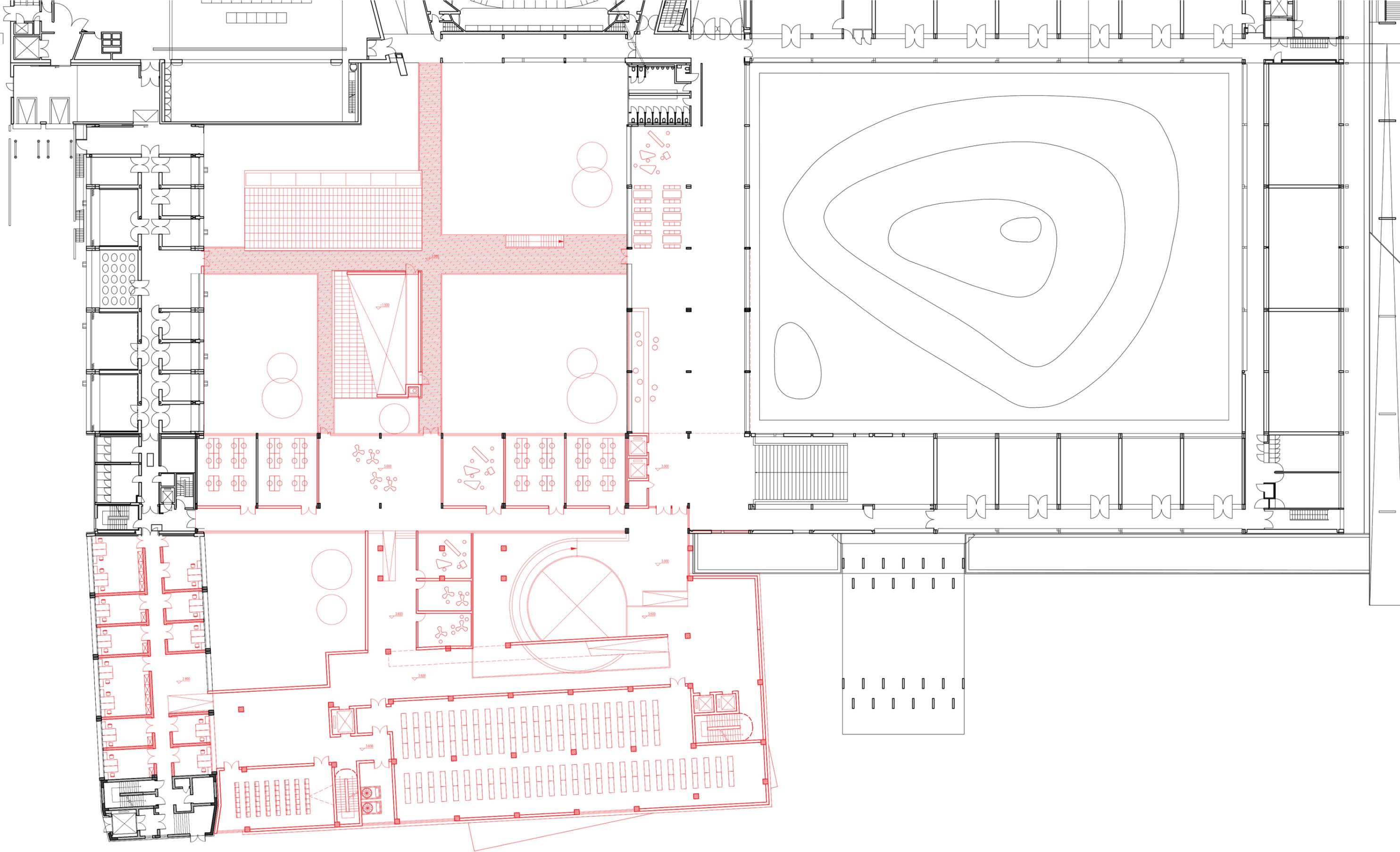
**Ground Floor Plan**





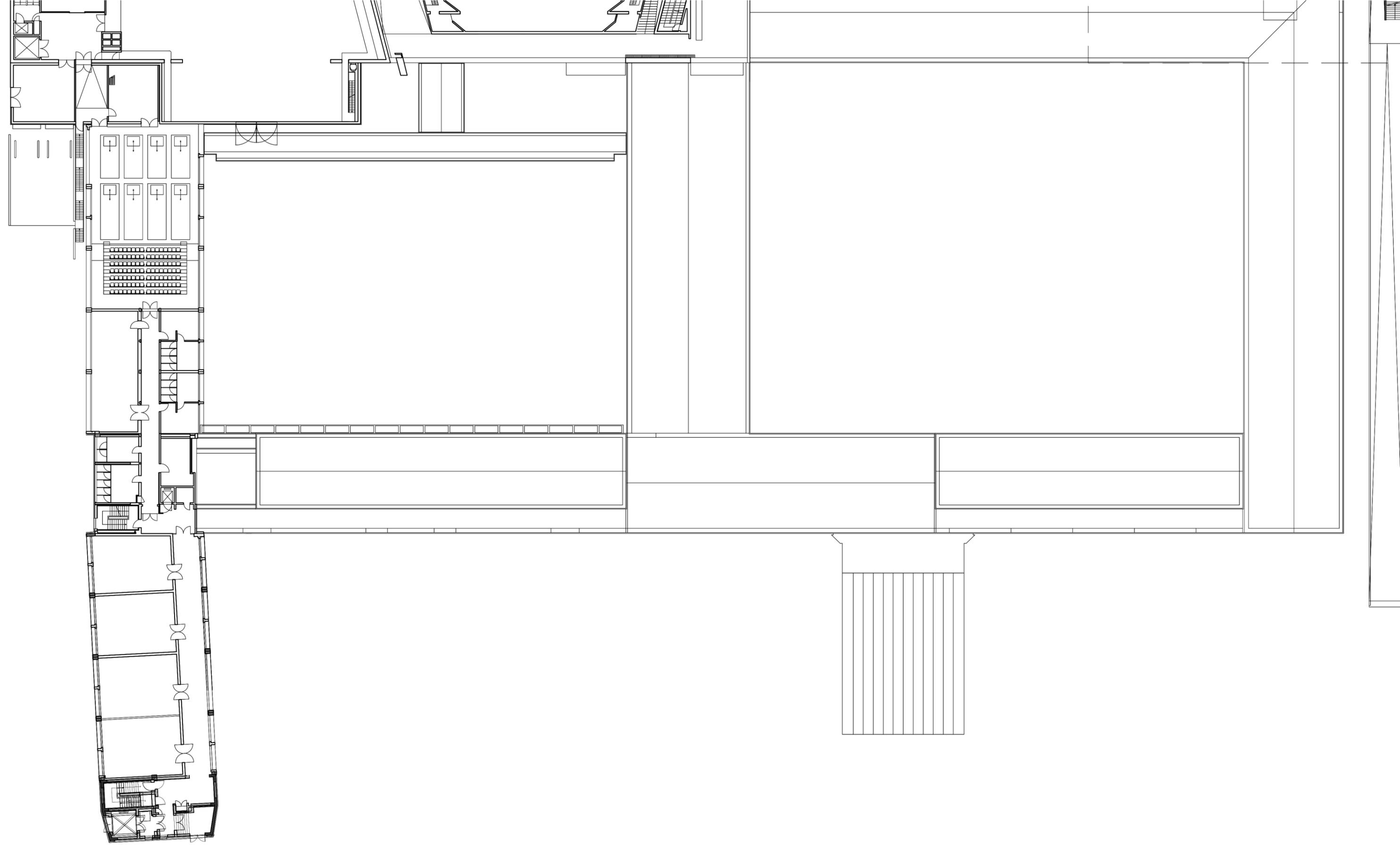
**1st Floor Plan**



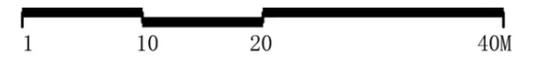


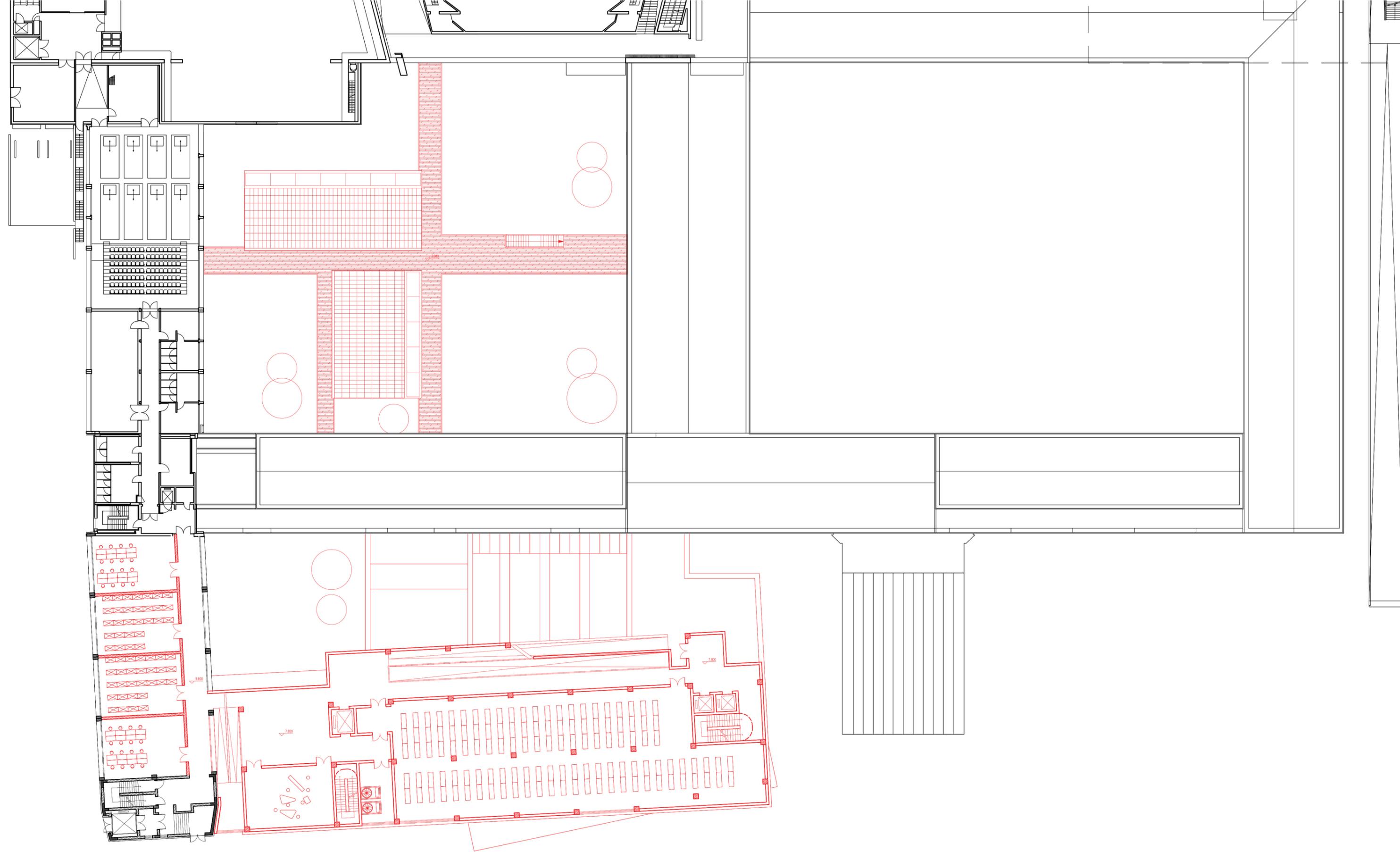
**1st Floor Plan**





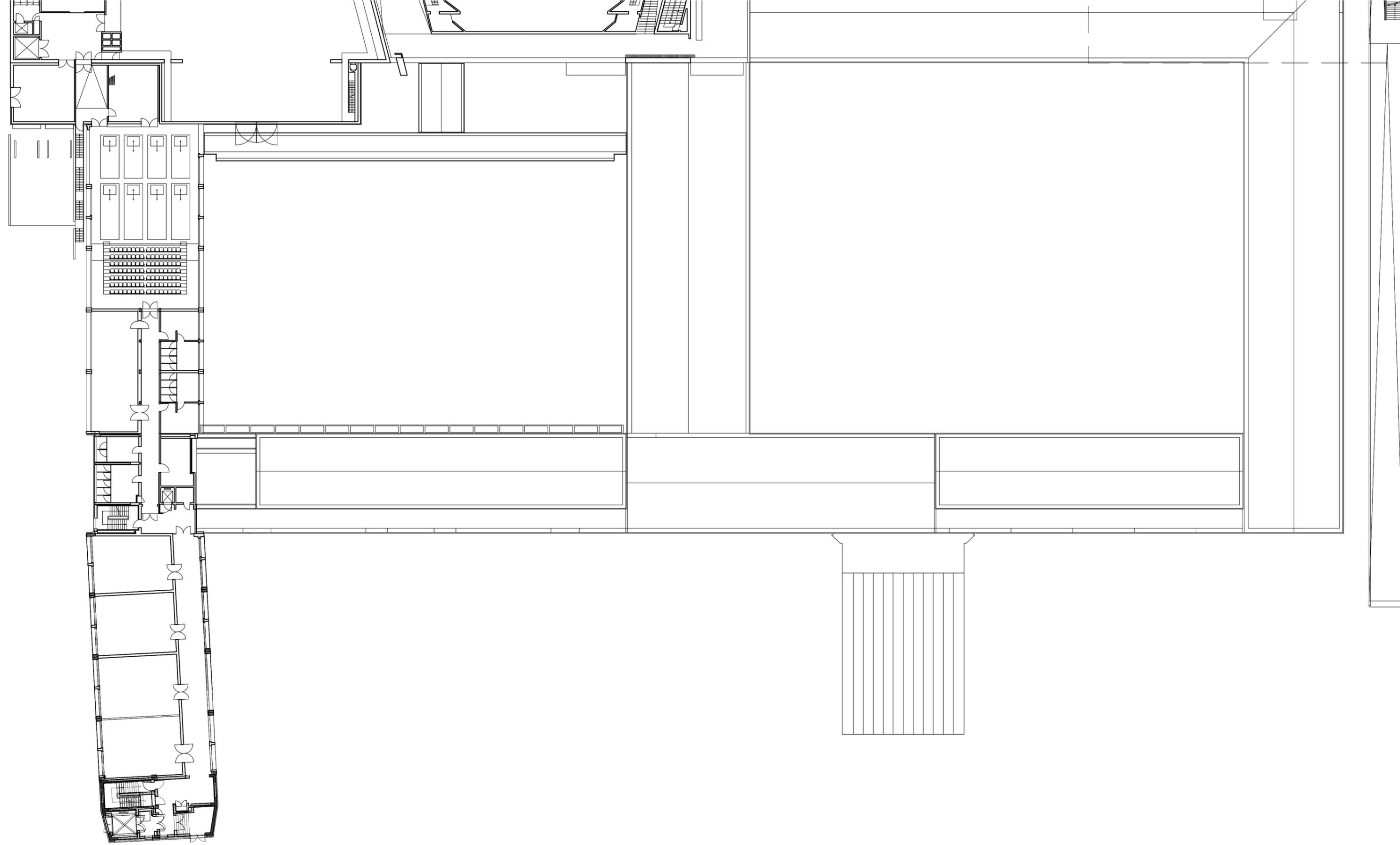
**2nd Floor Plan**



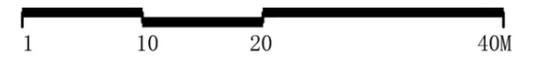


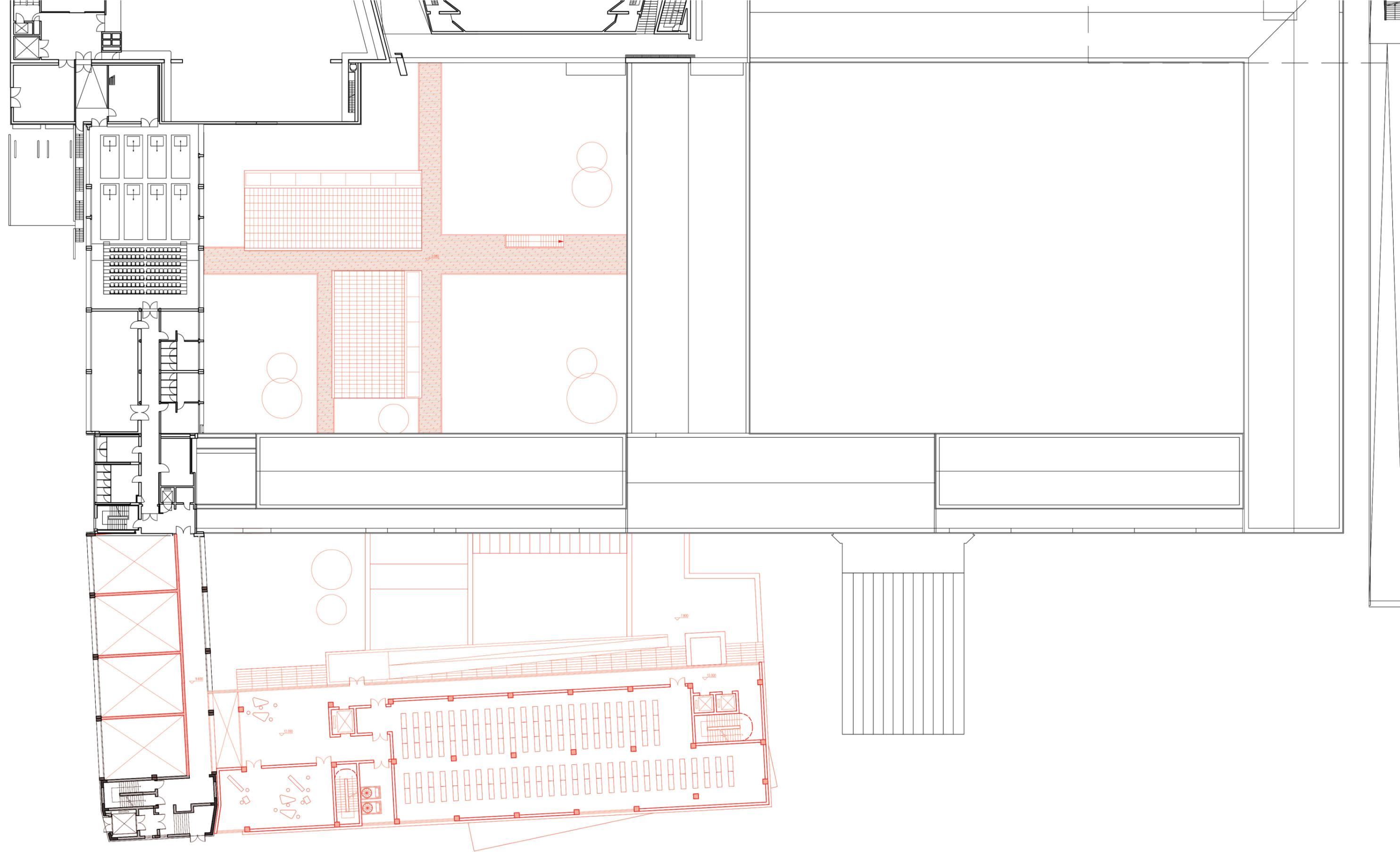
**2nd Floor Plan**



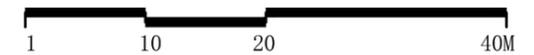


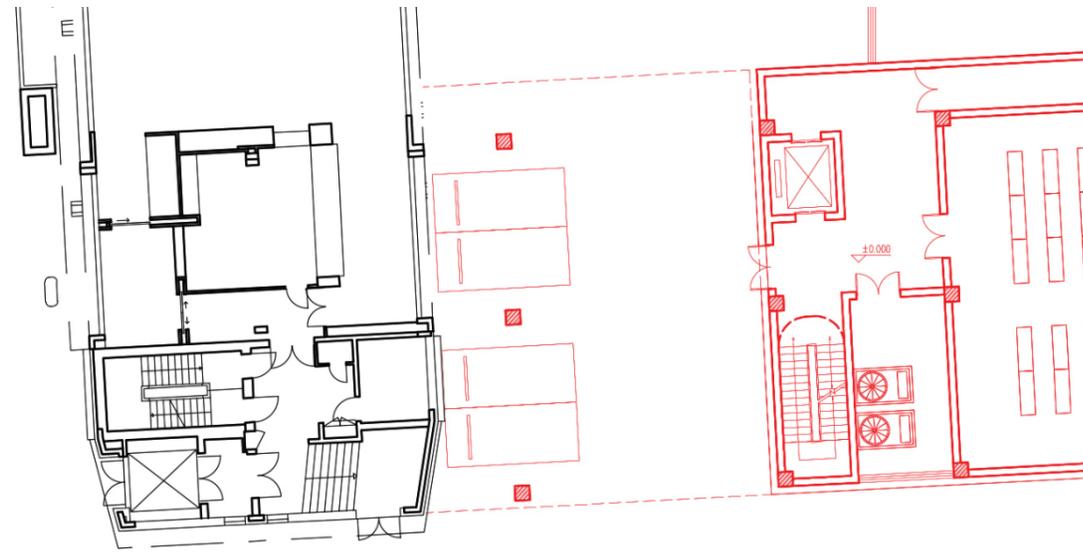
**3rd Floor Plan**



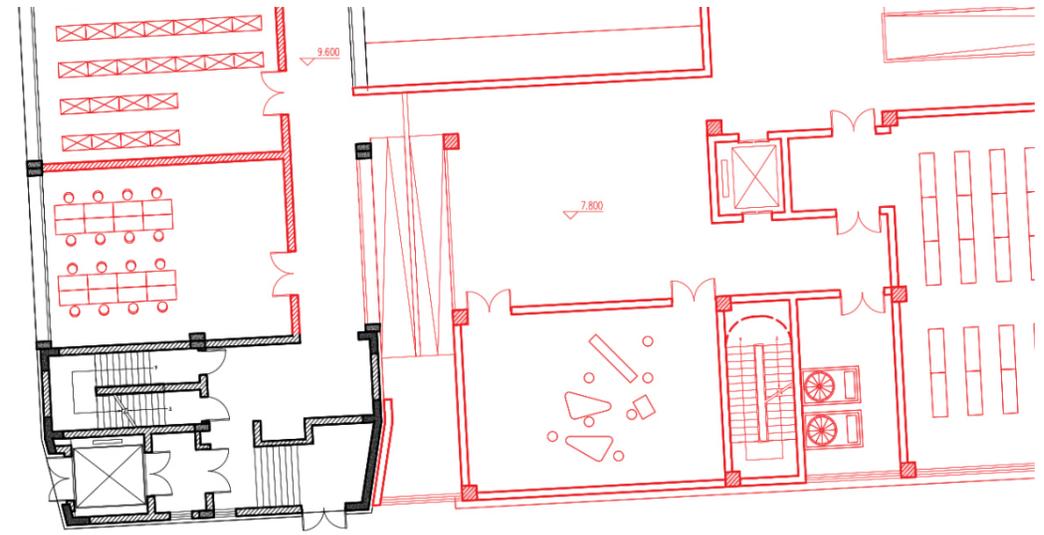


**3rd Floor Plan**

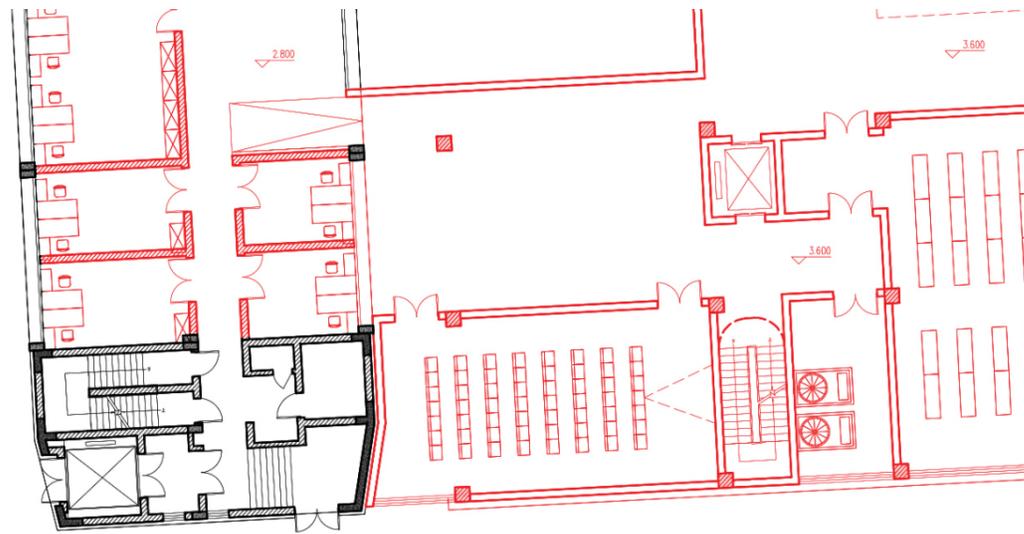




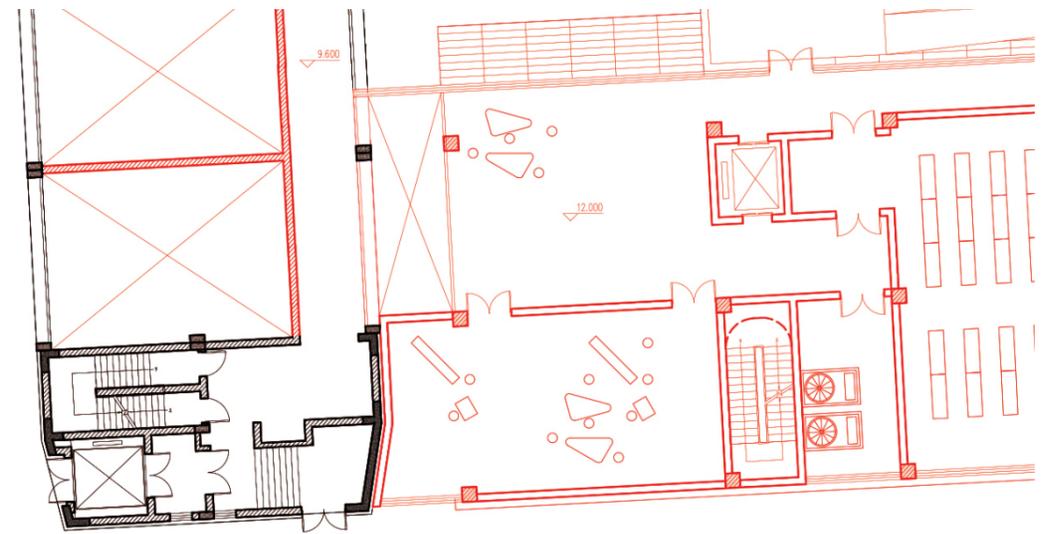
**GF**



**2F**

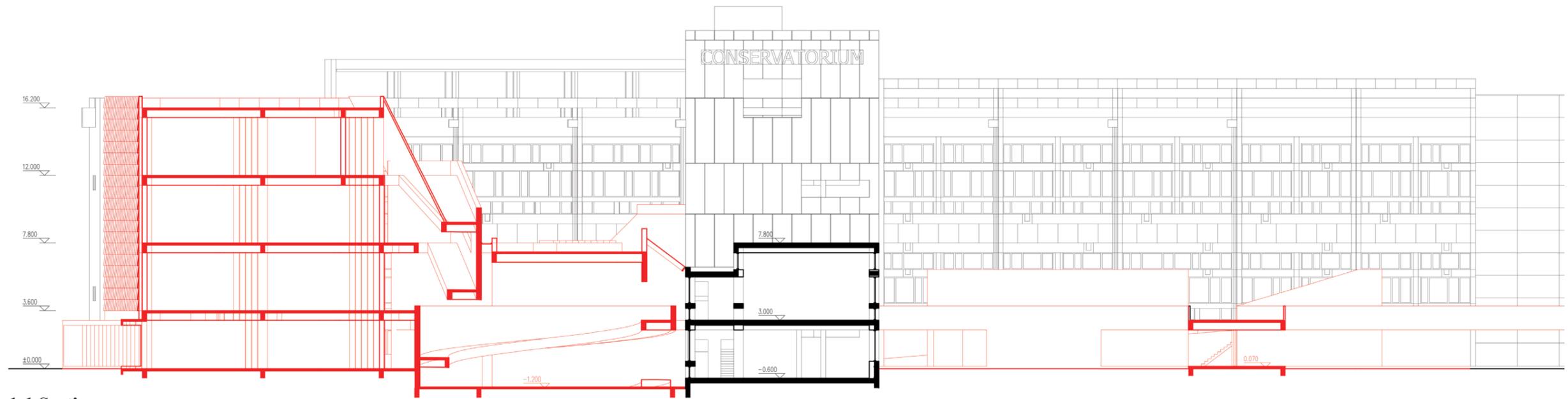


**1F**

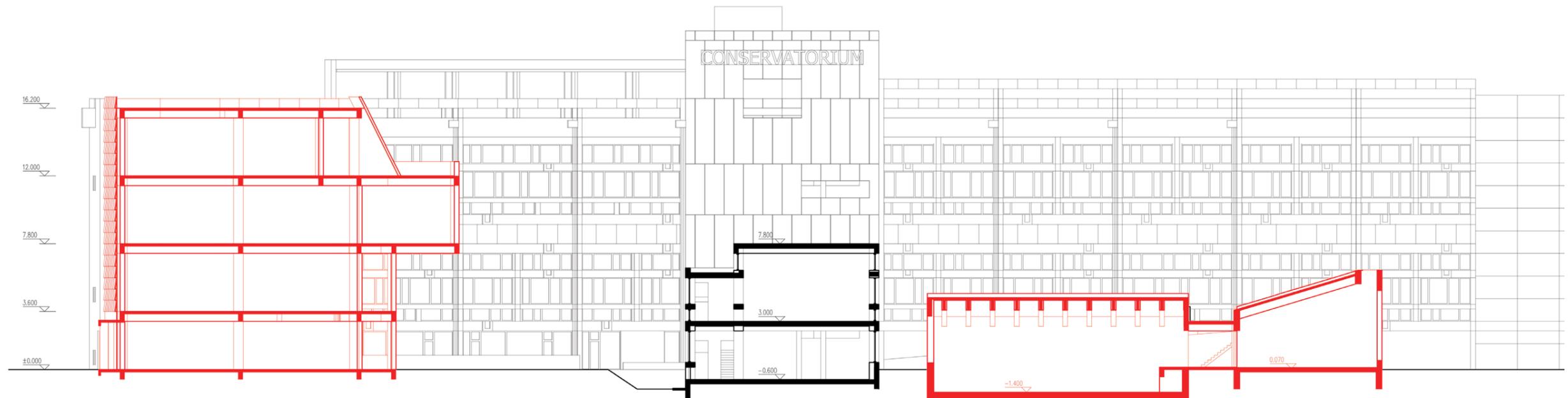


**3F**

# Sections

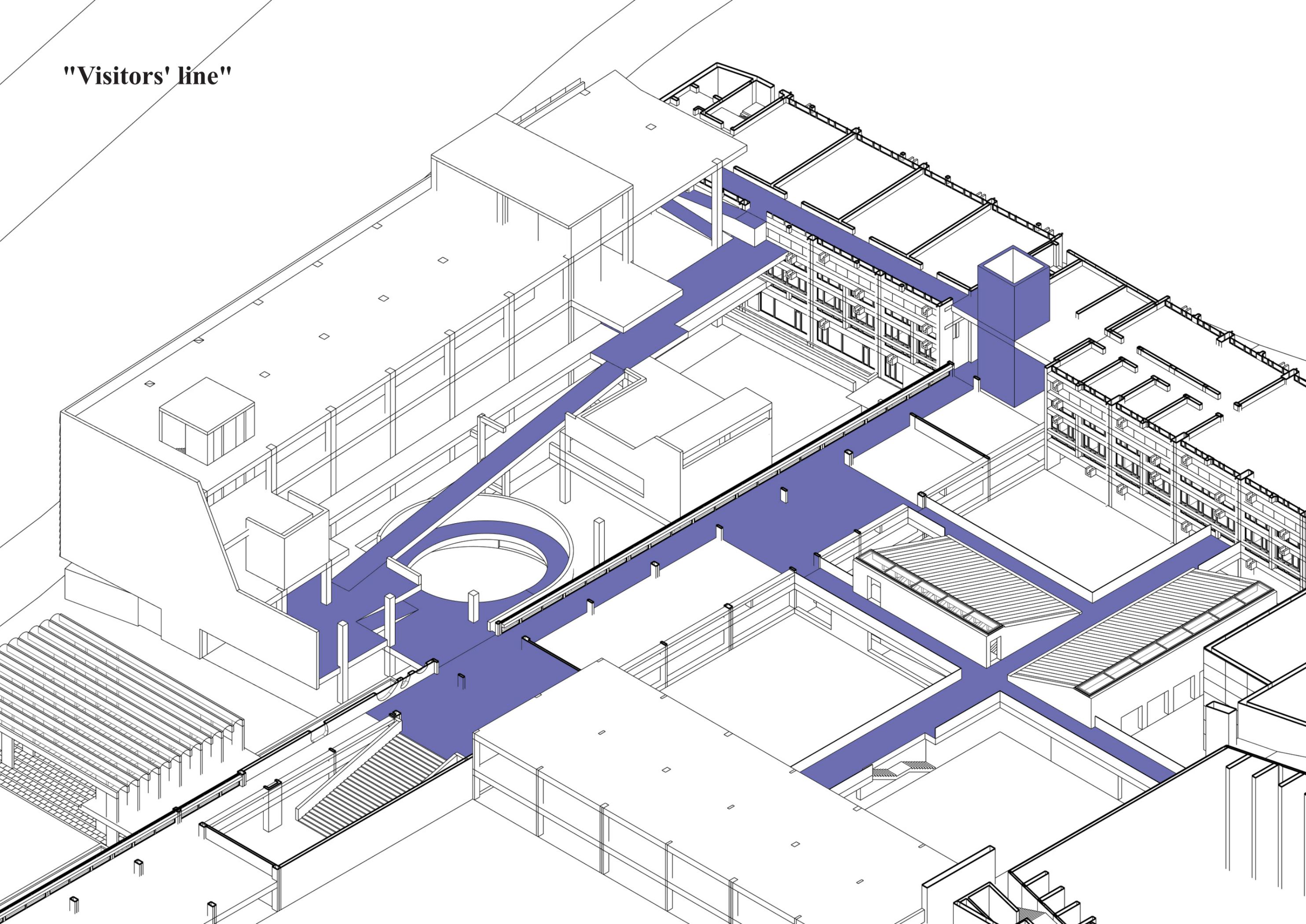


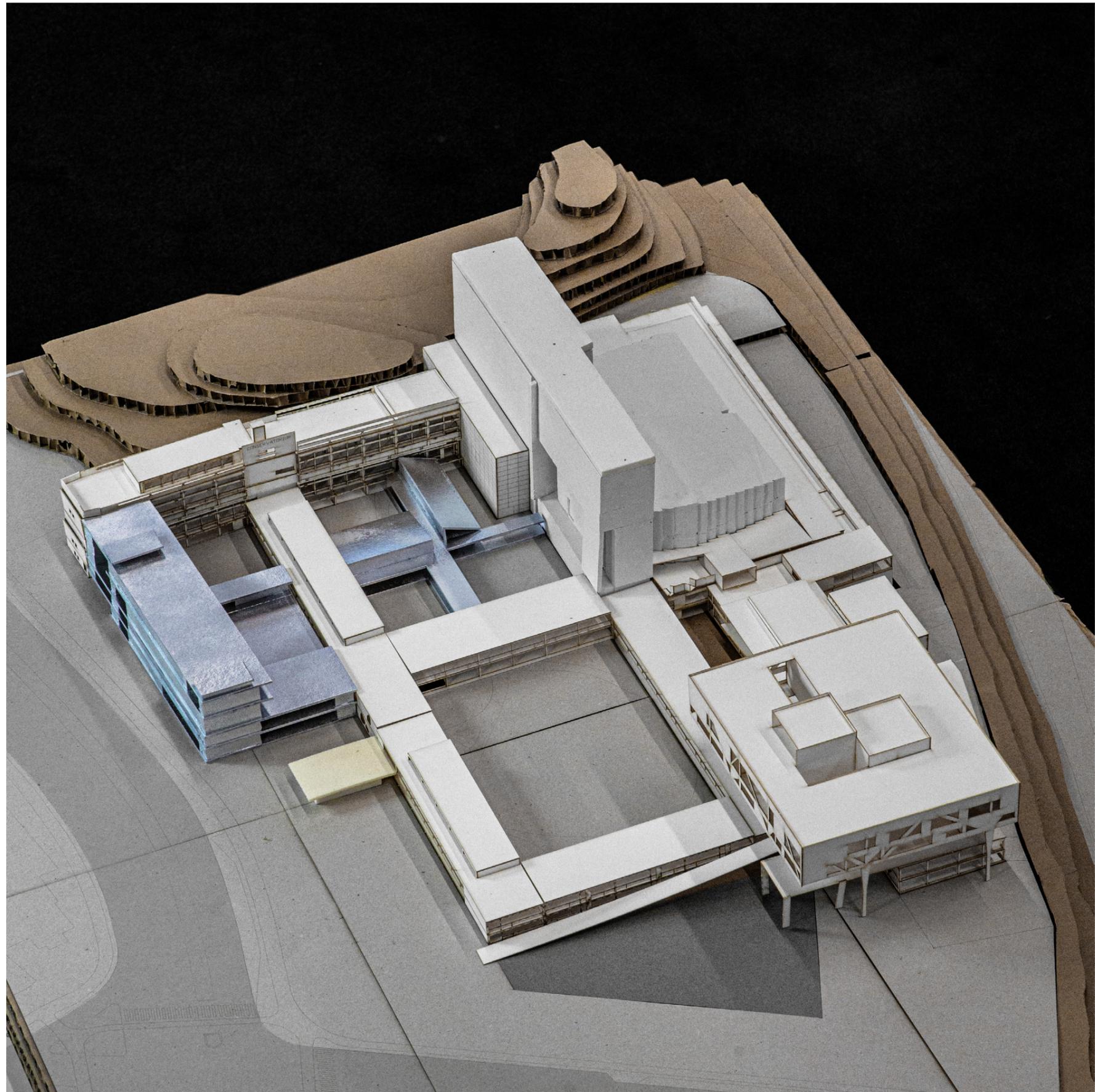
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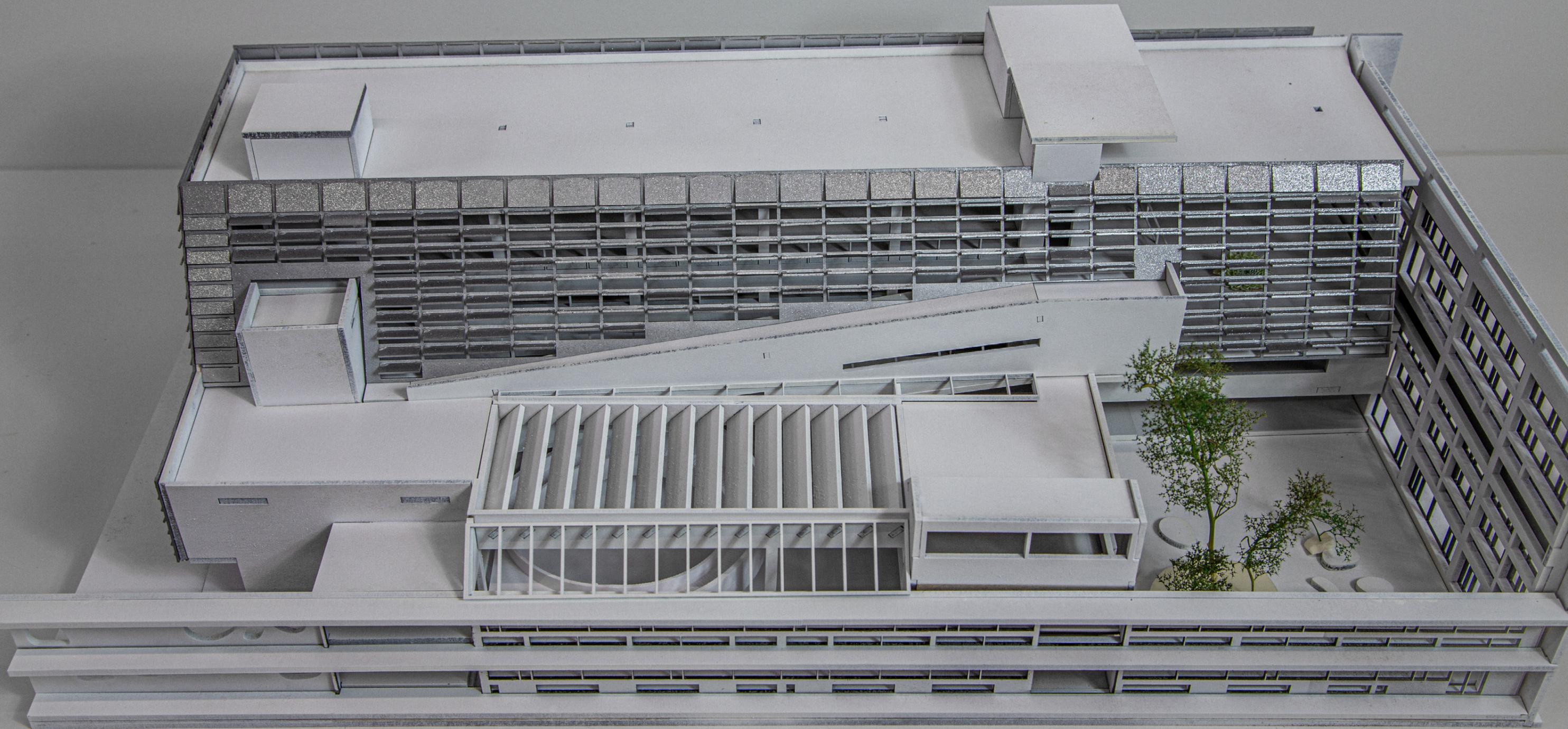


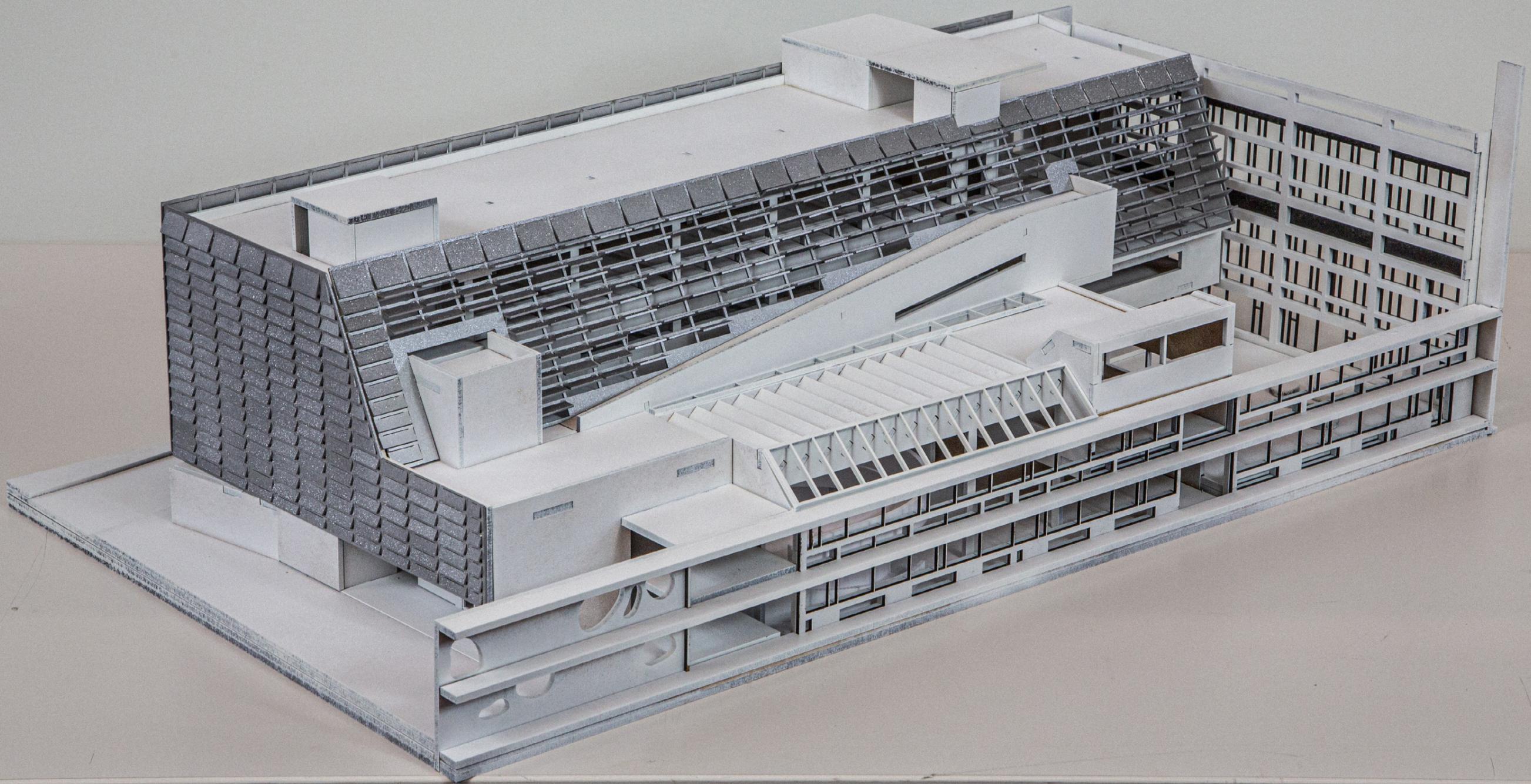
2-2 Section

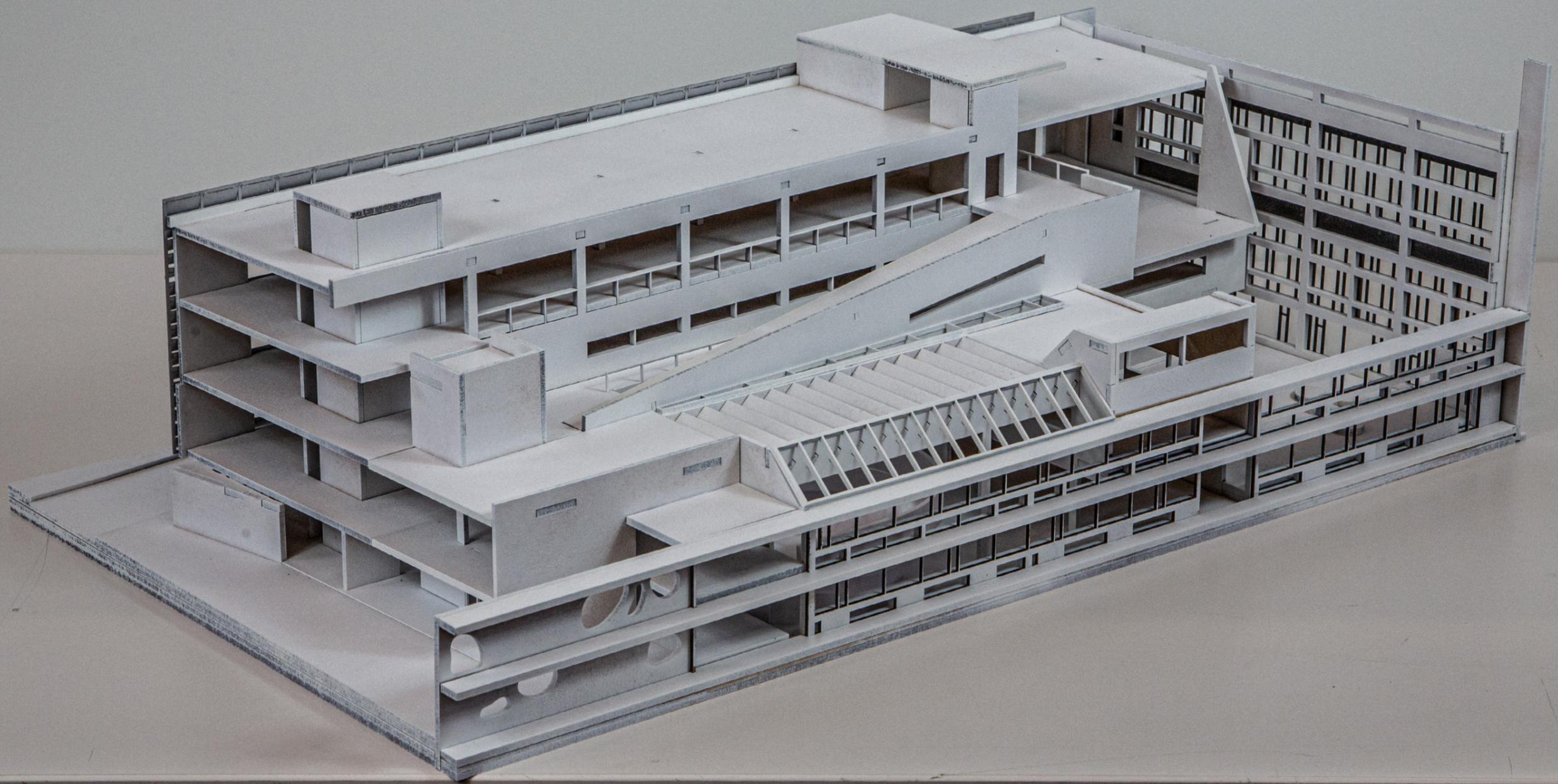
"Visitors' line"

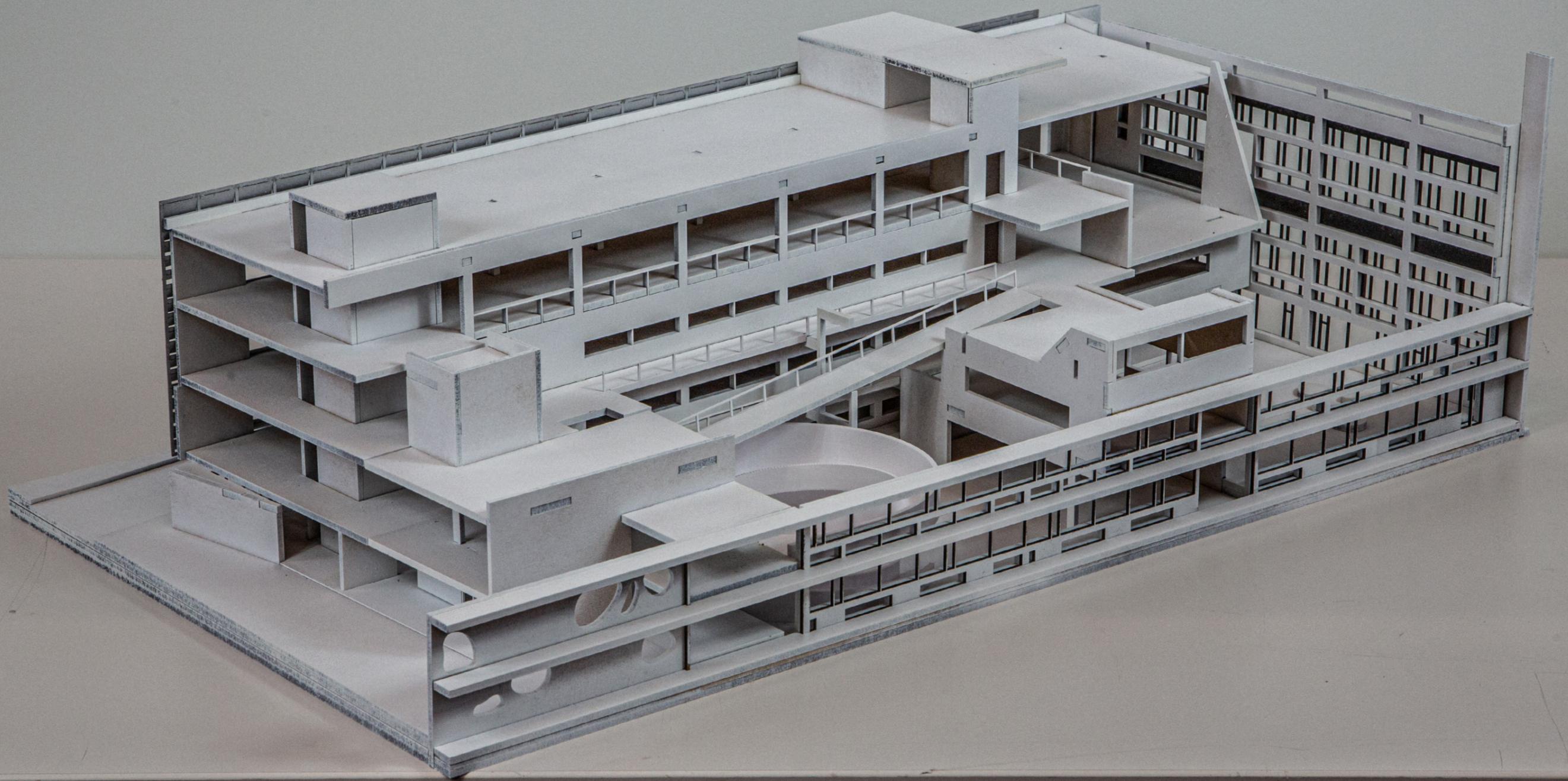






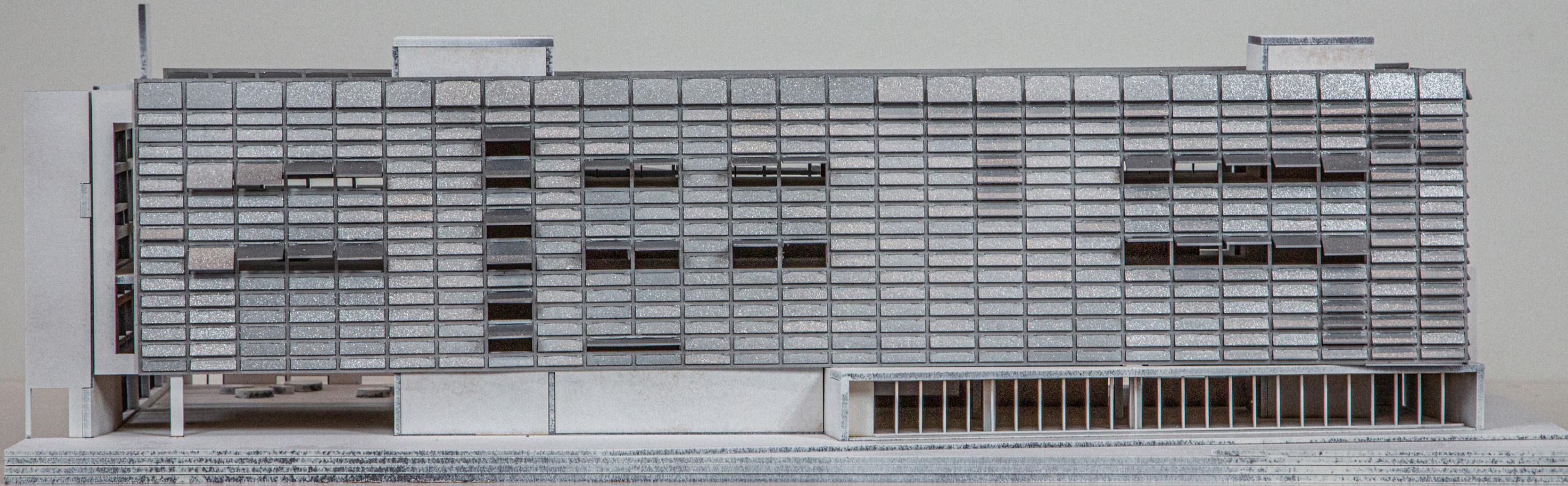




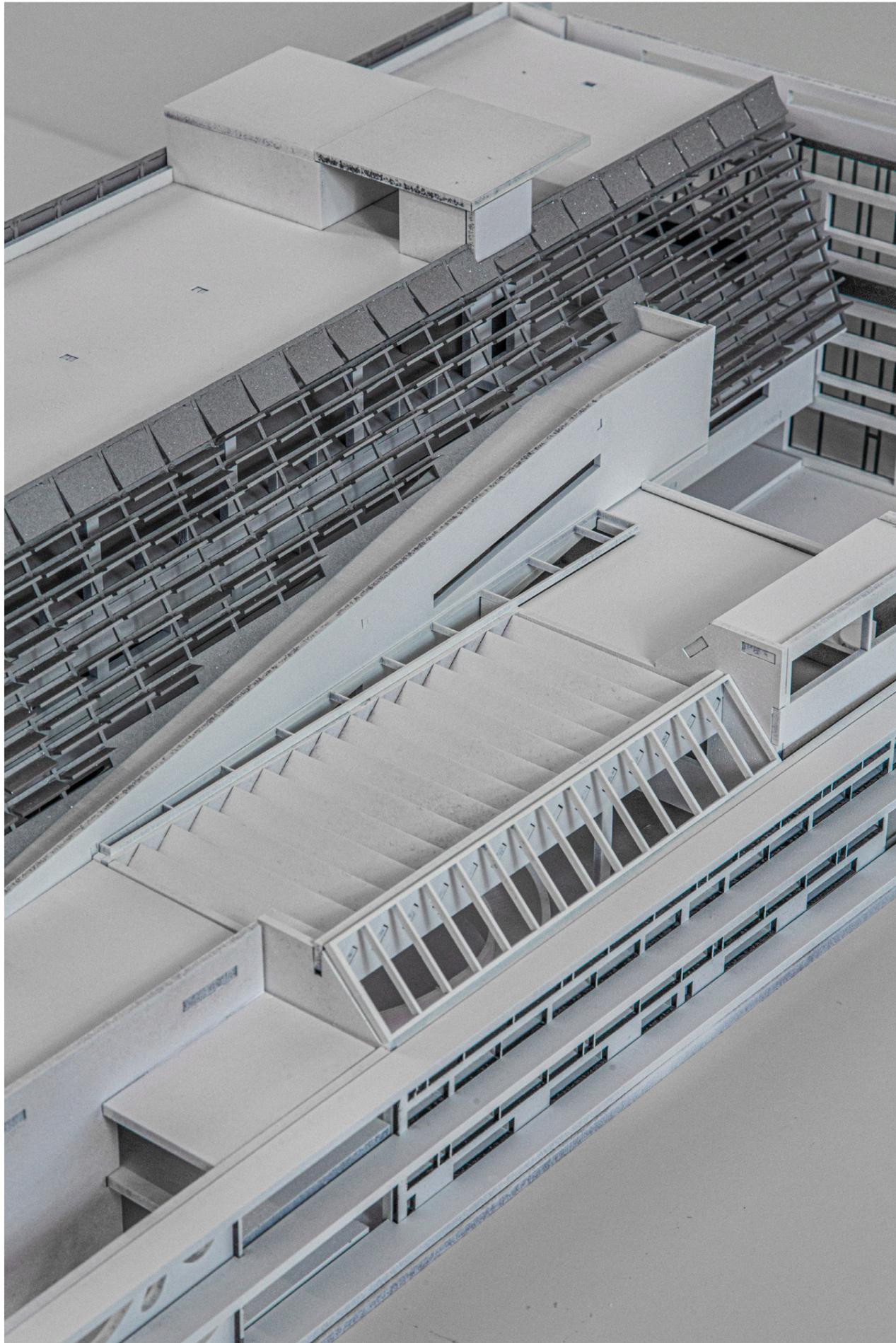












# Lobby



Ramp



Ramp

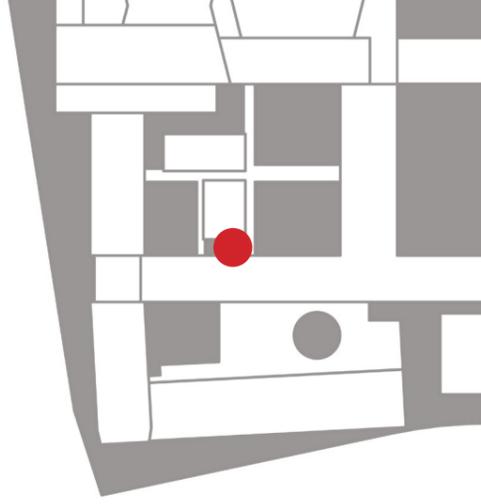




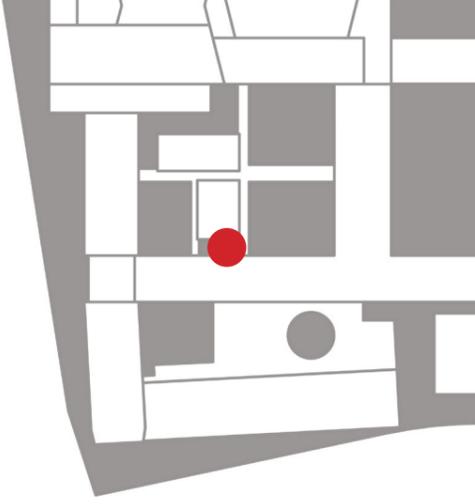
Courtyards



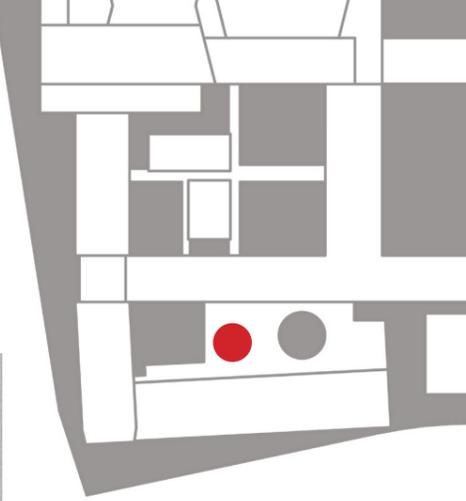
# Courtyards



# Courtyards



# Roof



Exhibition Hall



Exhibition Hall

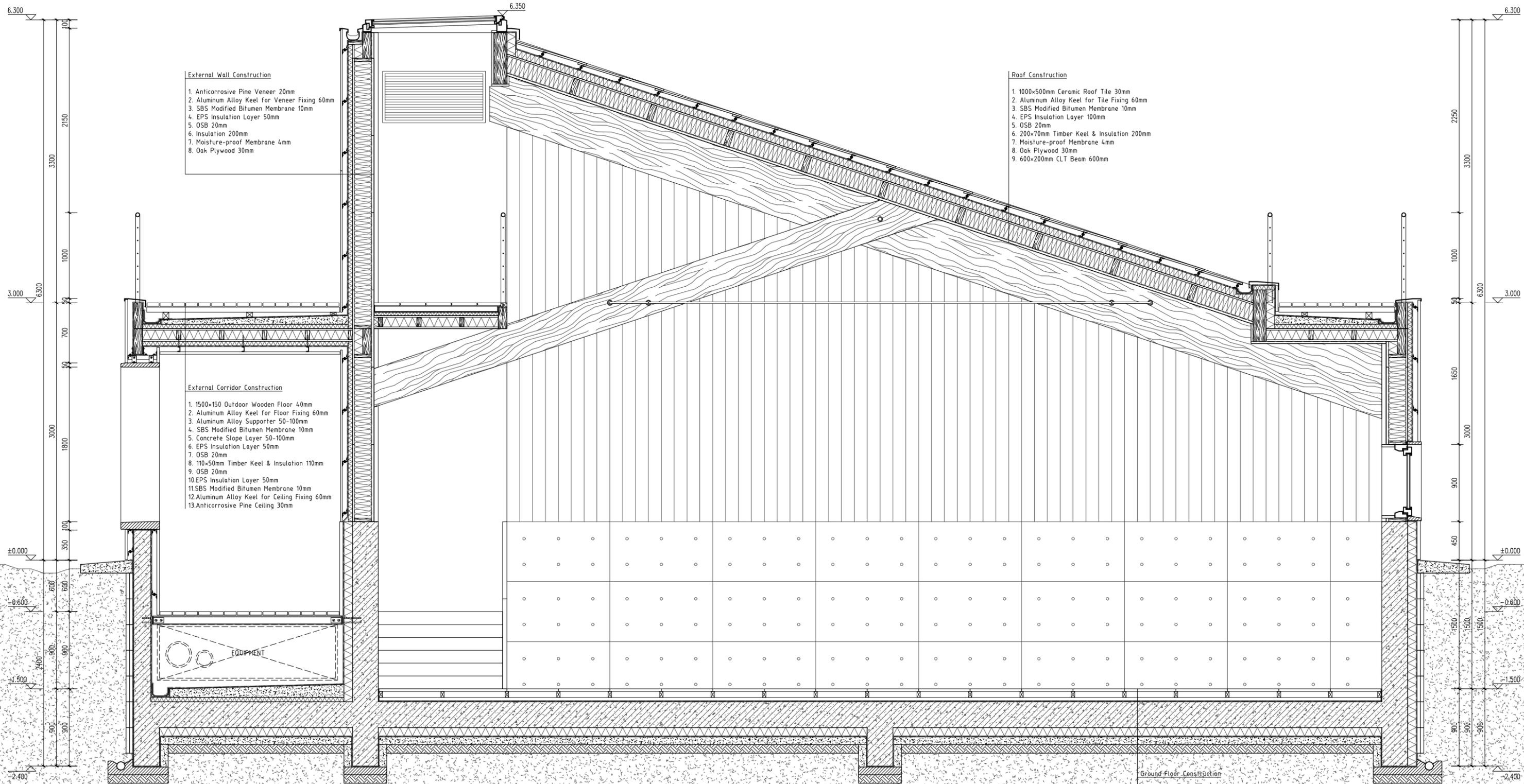


Exhibition Hall





# Exhibition Hall



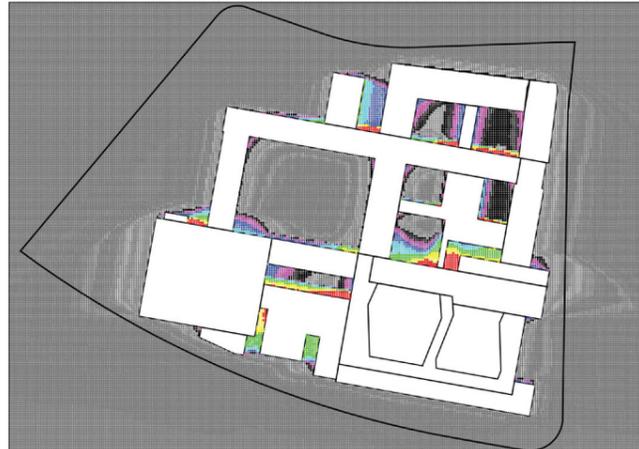
- External Wall Construction**
1. Anticorrosive Pine Veneer 20mm
  2. Aluminum Alloy Keel for Veneer Fixing 60mm
  3. SBS Modified Bitumen Membrane 10mm
  4. EPS Insulation Layer 50mm
  5. OSB 20mm
  6. Insulation 200mm
  7. Moisture-proof Membrane 4mm
  8. Oak Plywood 30mm

- Roof Construction**
1. 1000x500mm Ceramic Roof Tile 30mm
  2. Aluminum Alloy Keel for Tile Fixing 60mm
  3. SBS Modified Bitumen Membrane 10mm
  4. EPS Insulation Layer 100mm
  5. OSB 20mm
  6. 200x70mm Timber Keel & Insulation 200mm
  7. Moisture-proof Membrane 4mm
  8. Oak Plywood 30mm
  9. 600x200mm CLT Beam 600mm

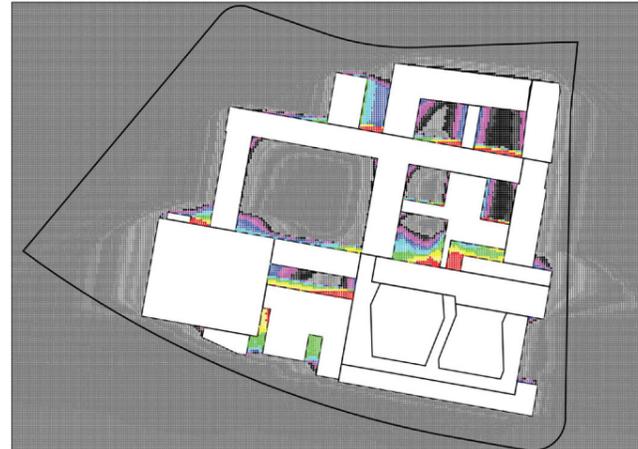
- External Corridor Construction**
1. 1500x150 Outdoor Wooden Floor 40mm
  2. Aluminum Alloy Keel for Floor Fixing 60mm
  3. Aluminum Alloy Supporter 50-100mm
  4. SBS Modified Bitumen Membrane 10mm
  5. Concrete Slope Layer 50-100mm
  6. EPS Insulation Layer 50mm
  7. OSB 20mm
  8. 110x50mm Timber Keel & Insulation 110mm
  9. OSB 20mm
  10. EPS Insulation Layer 50mm
  11. SBS Modified Bitumen Membrane 10mm
  12. Aluminum Alloy Keel for Ceiling Fixing 60mm
  13. Anticorrosive Pine Ceiling 30mm

- Ground Floor Construction**
1. Ceramic Floor Tile 30mm
  2. Pipeline Cavity 70mm
  3. Cement Cushion Layer 45mm
  4. Waterproof Membrane 5mm
  5. Reinforced Concrete Structure 300mm
  6. Insulation Layer 100mm
  7. SBS Modified Bitumen Membrane 10mm
  8. Concrete Cushion Layer 90mm
  9. Rammed Earth

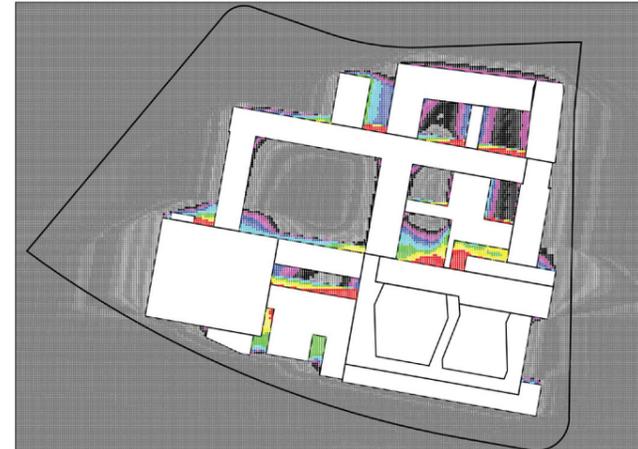
# Sunlight Analysis



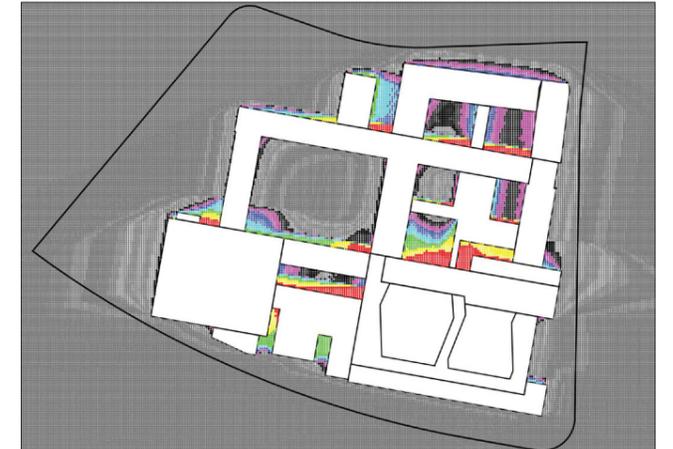
22nd June



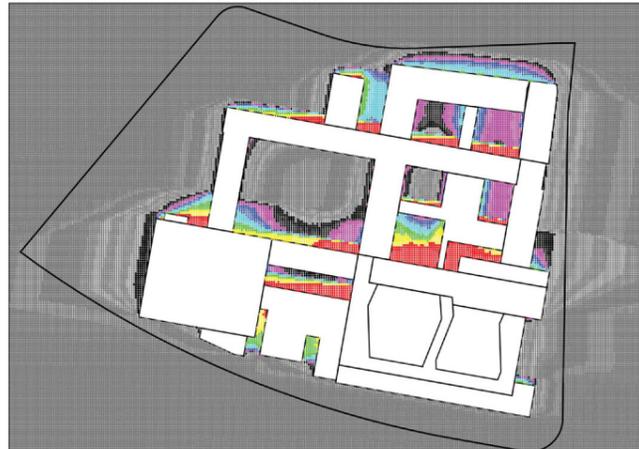
10th July



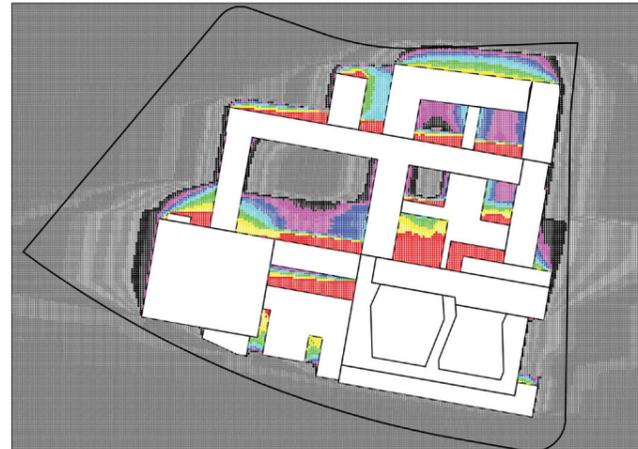
26th July



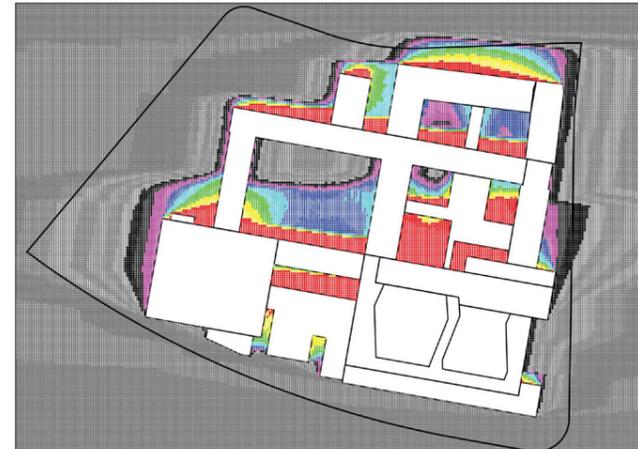
14th August



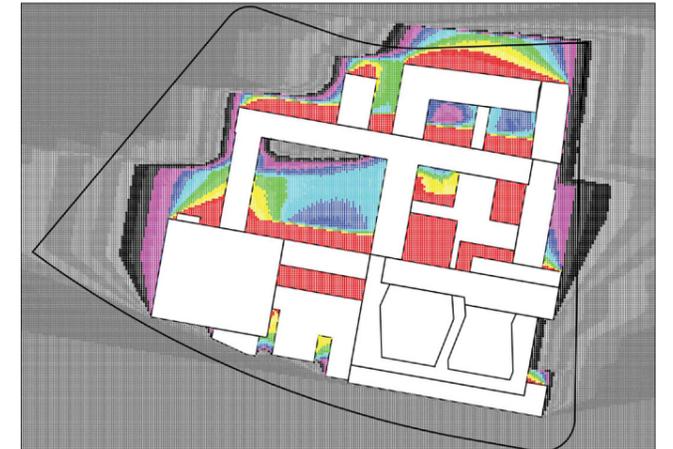
2nd September



20th September



8th October



26th October

# Climate Design

