

House of Music besides Barbican

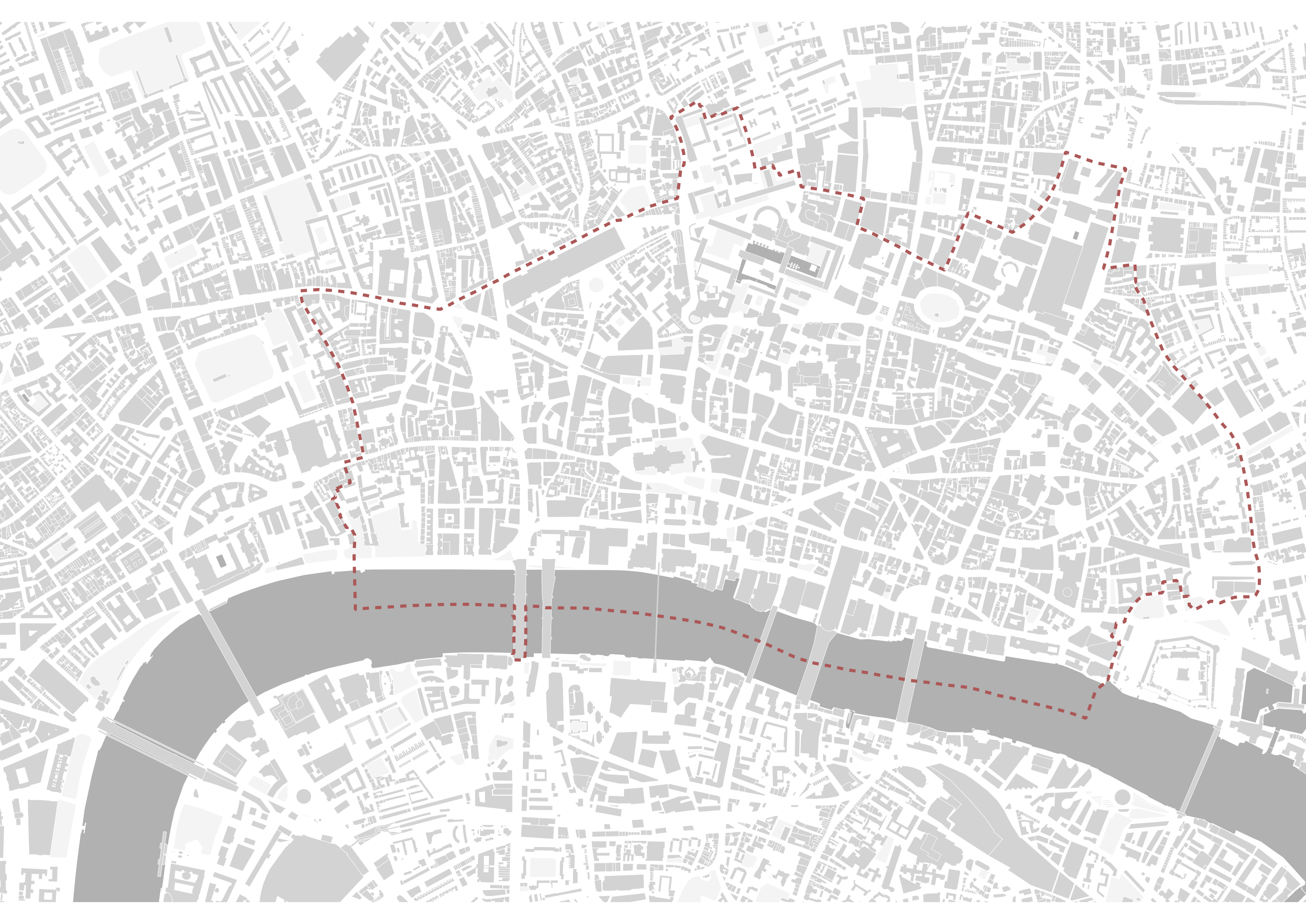
Haoyang Wu

Urban:

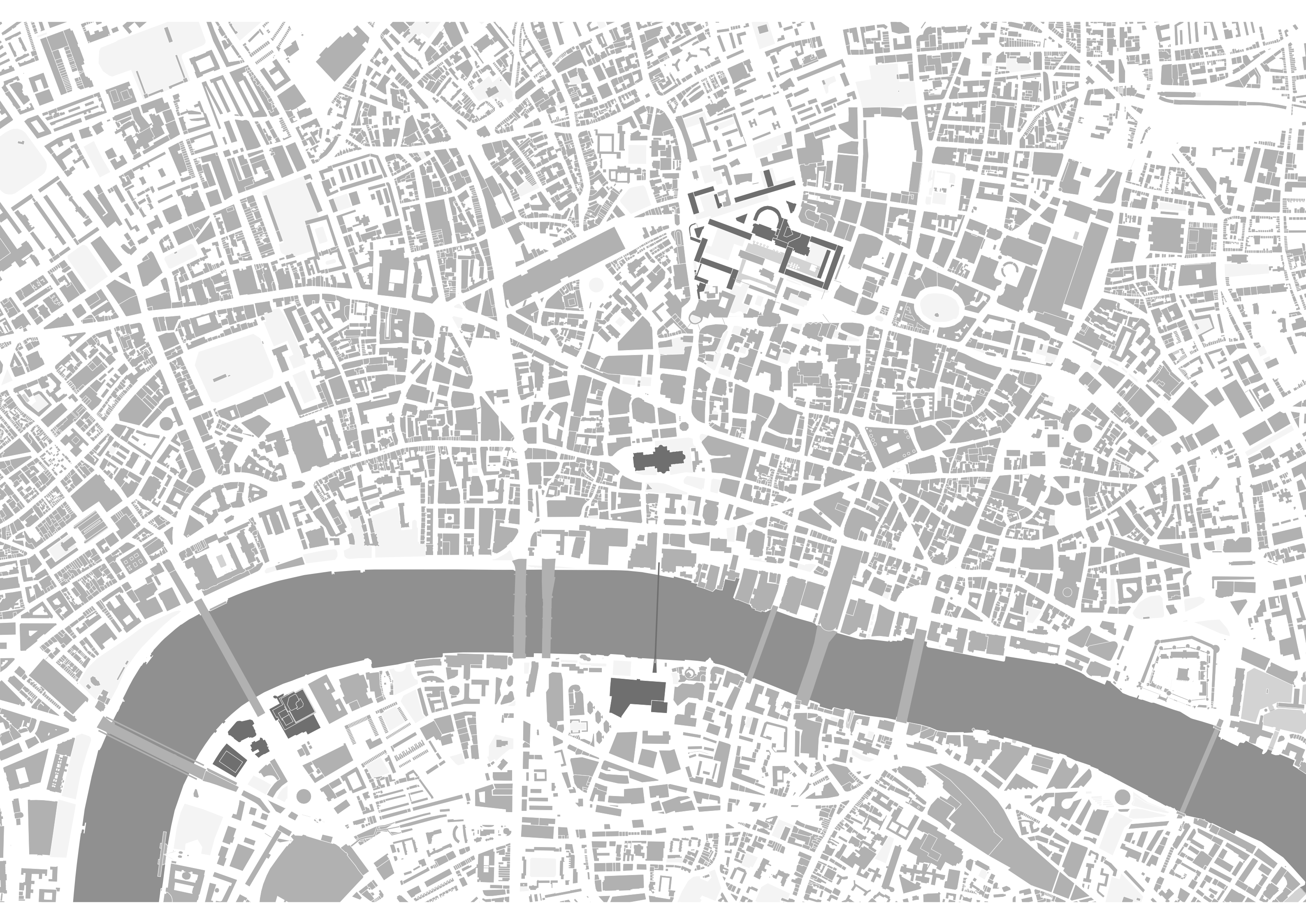
Route

Landmark

Site



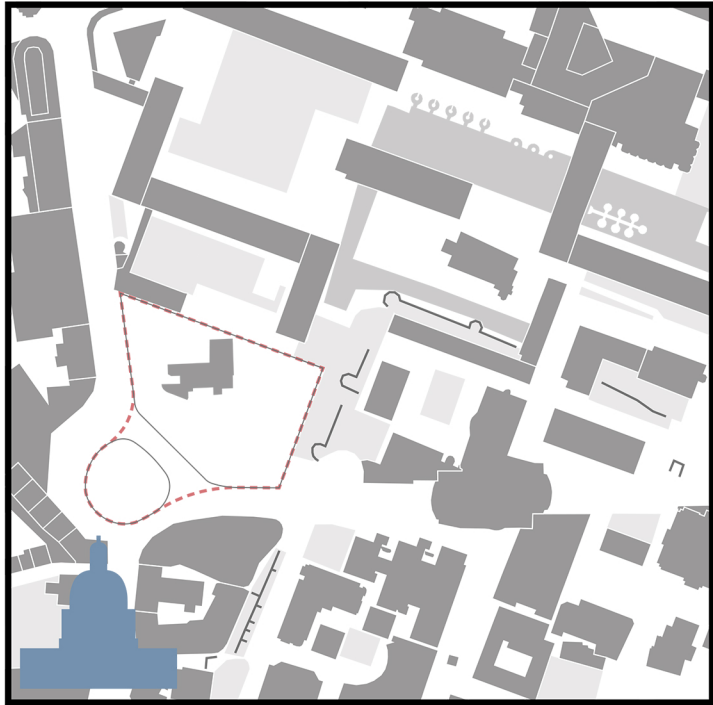






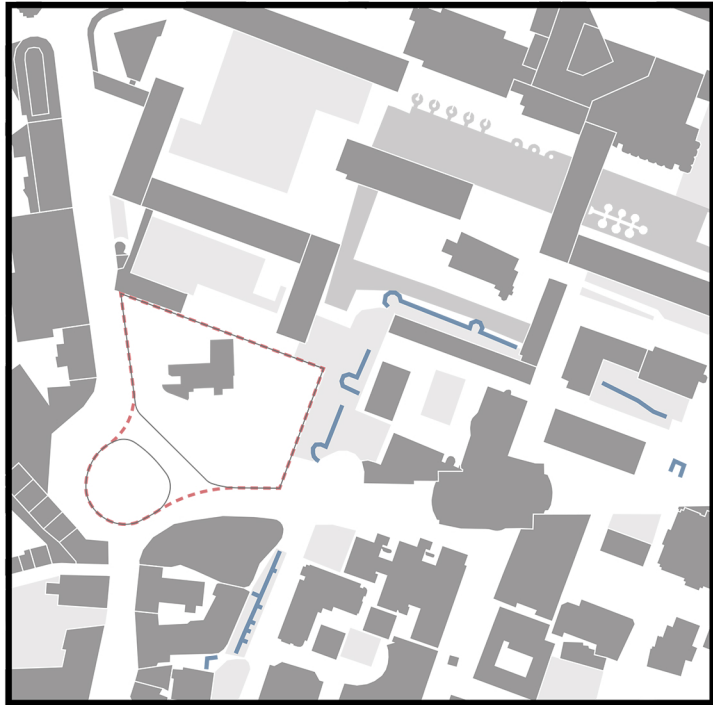
Site:

Analysis



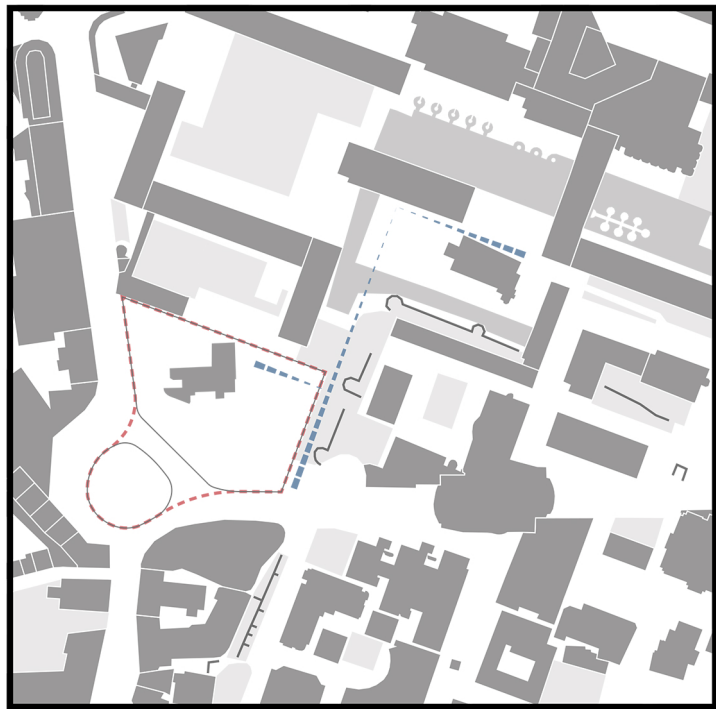
St Paul's Cathedral





Roman Fort Gate

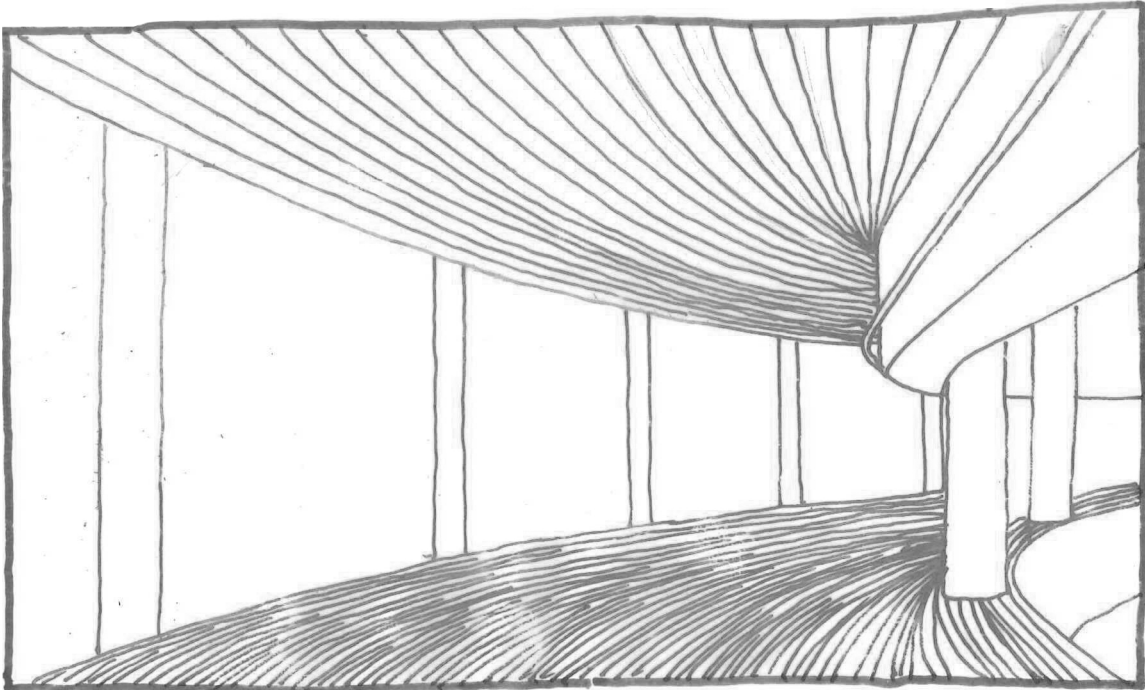




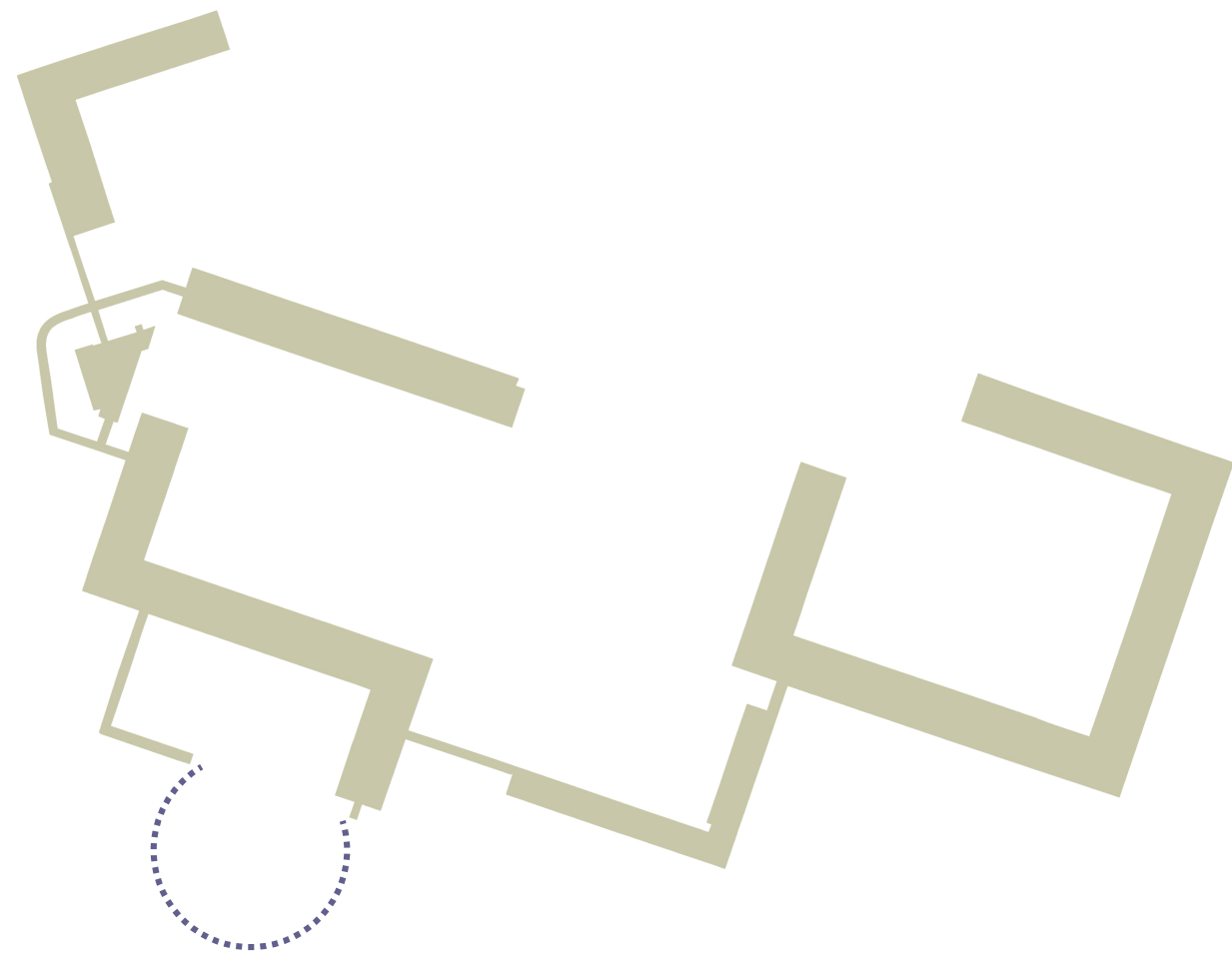
Reconnect public space across the Barbican Estate

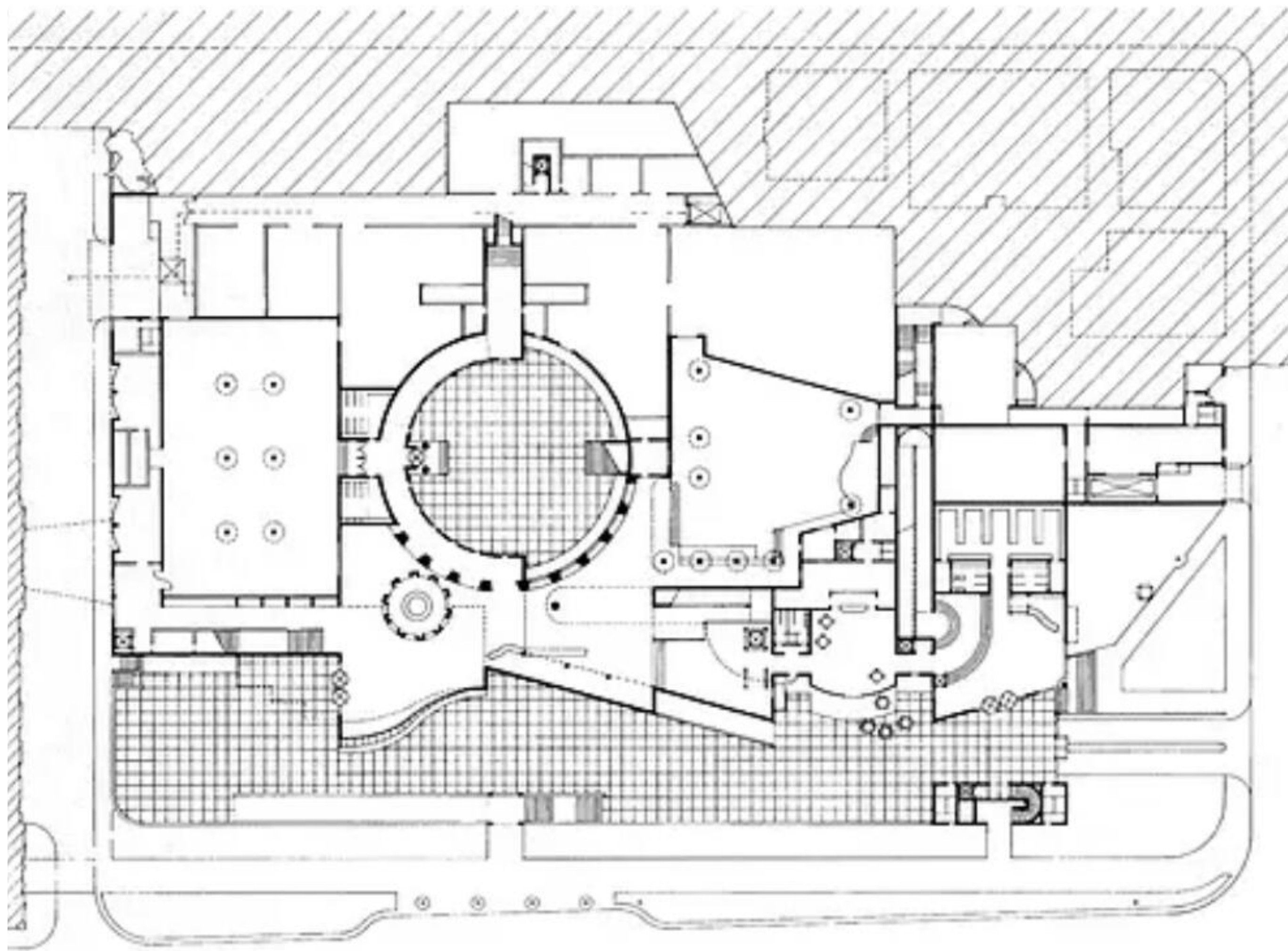


Garden
Highwalk
View
Starting-Ending





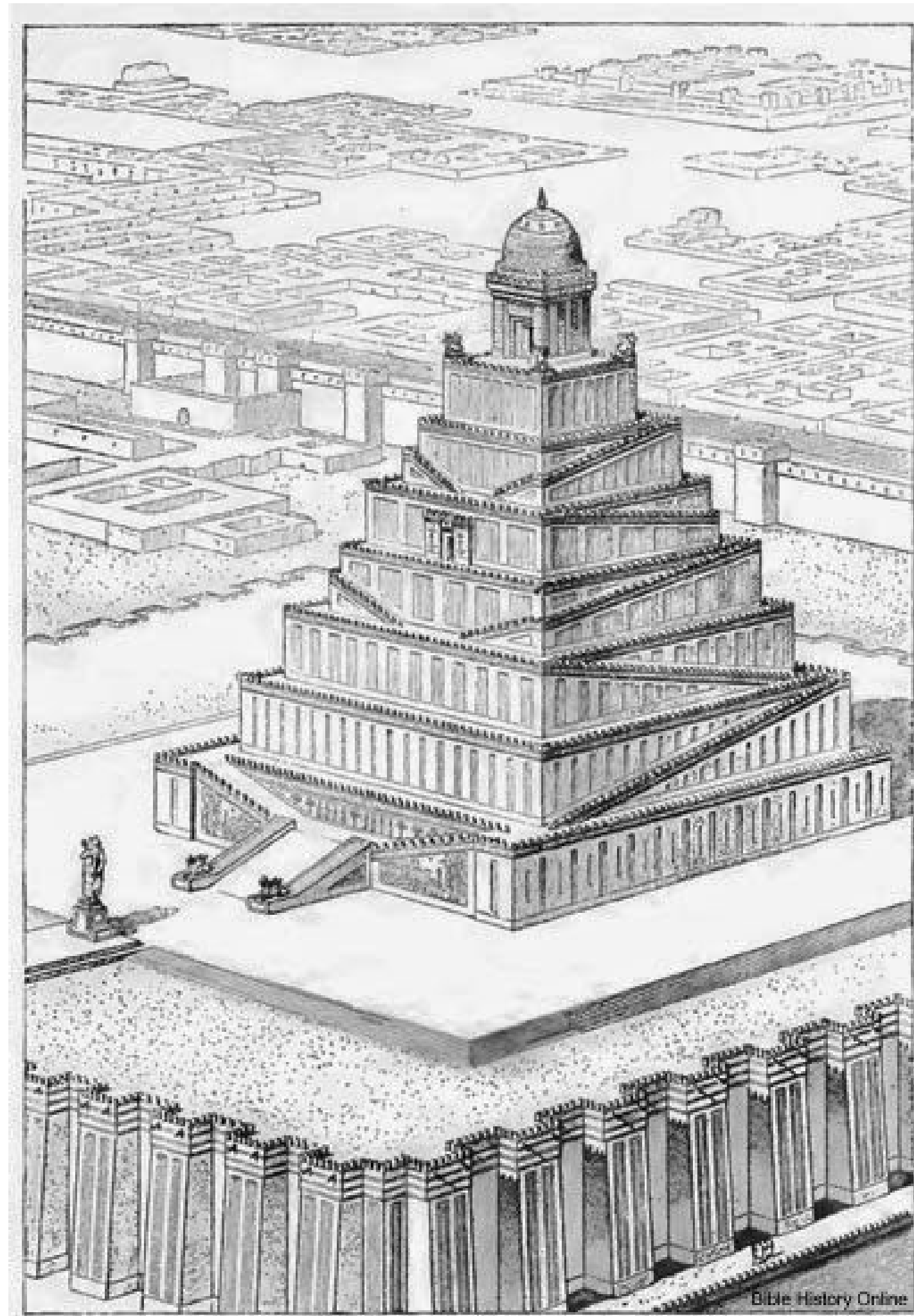




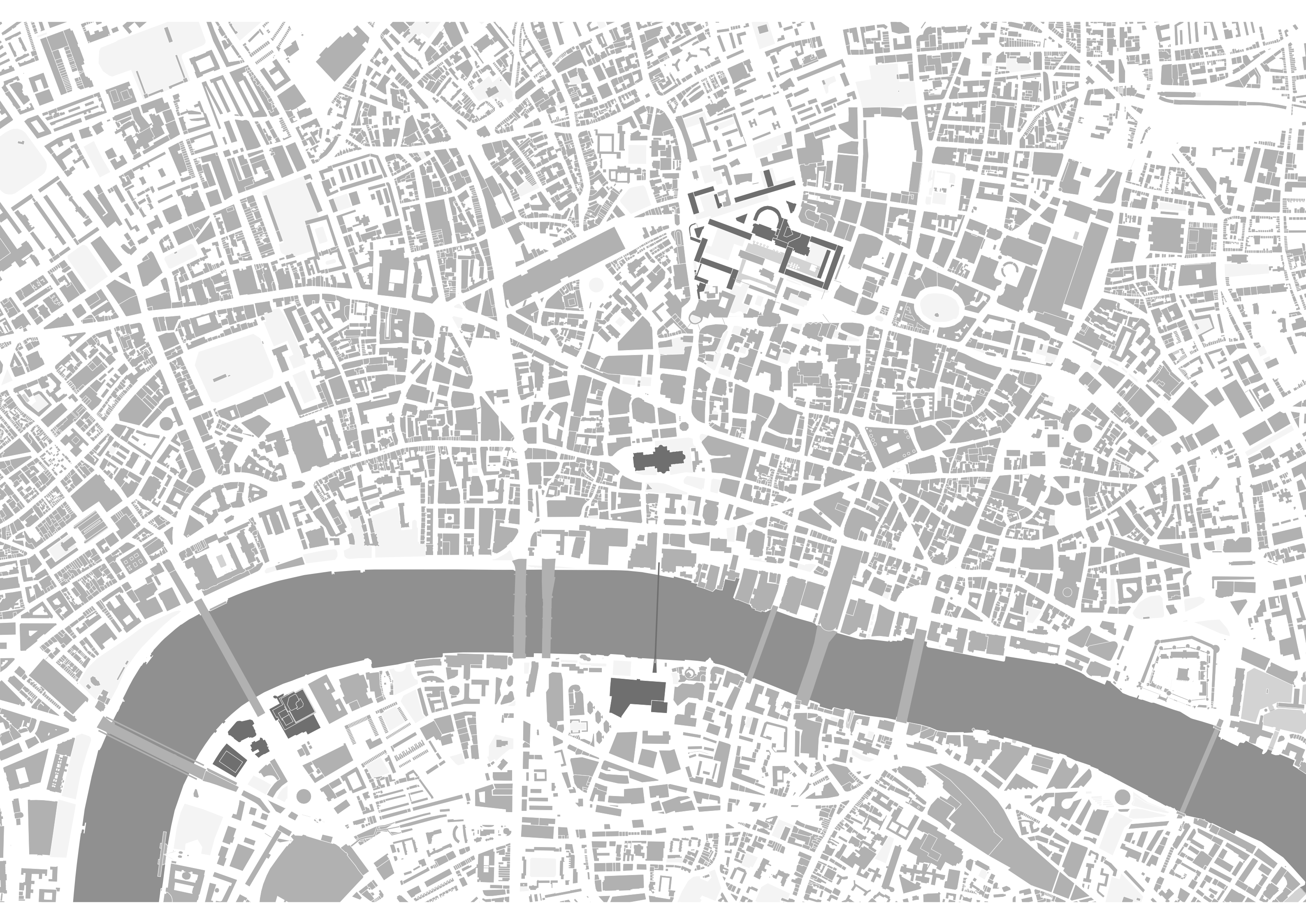


facade & volum





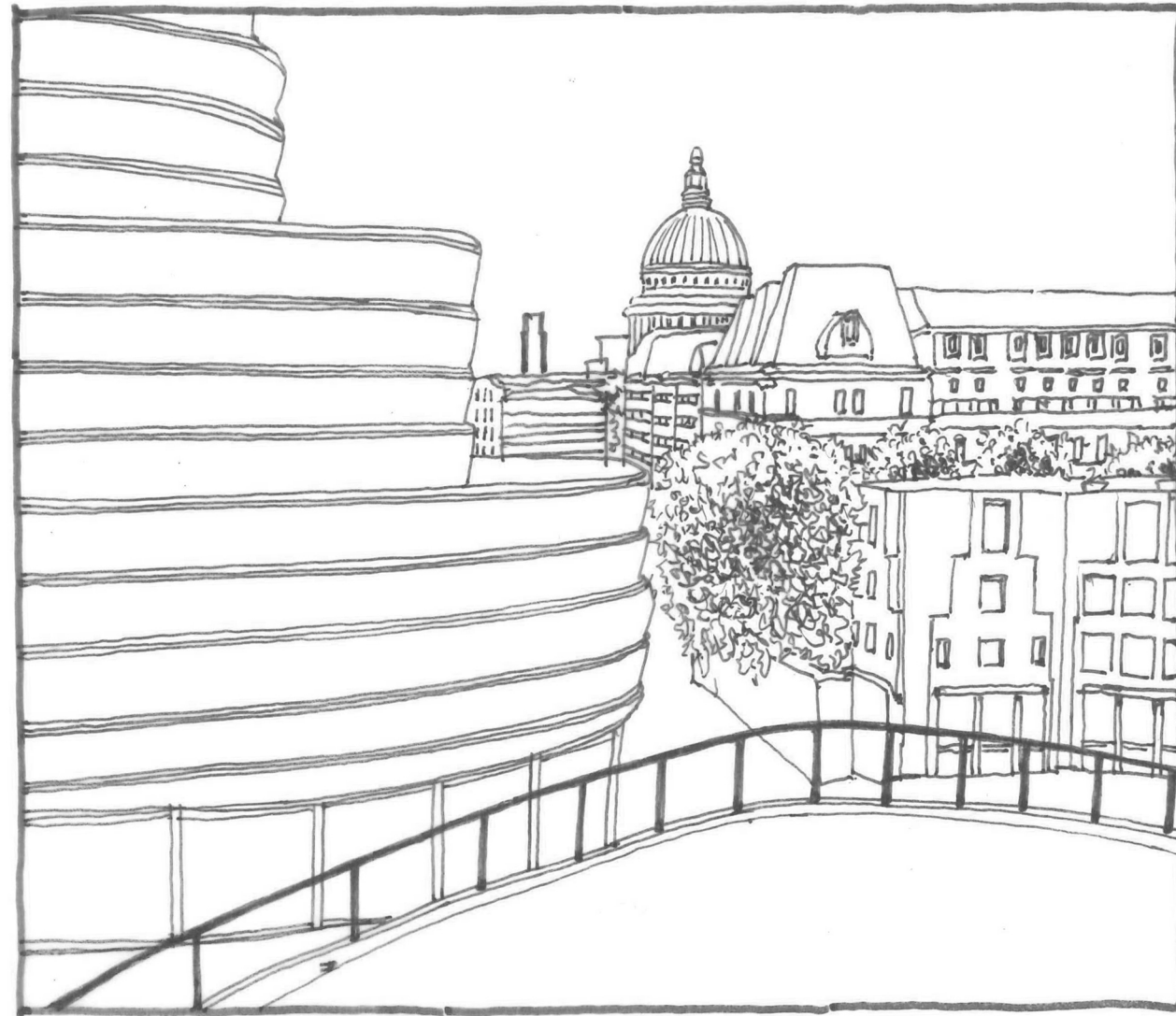


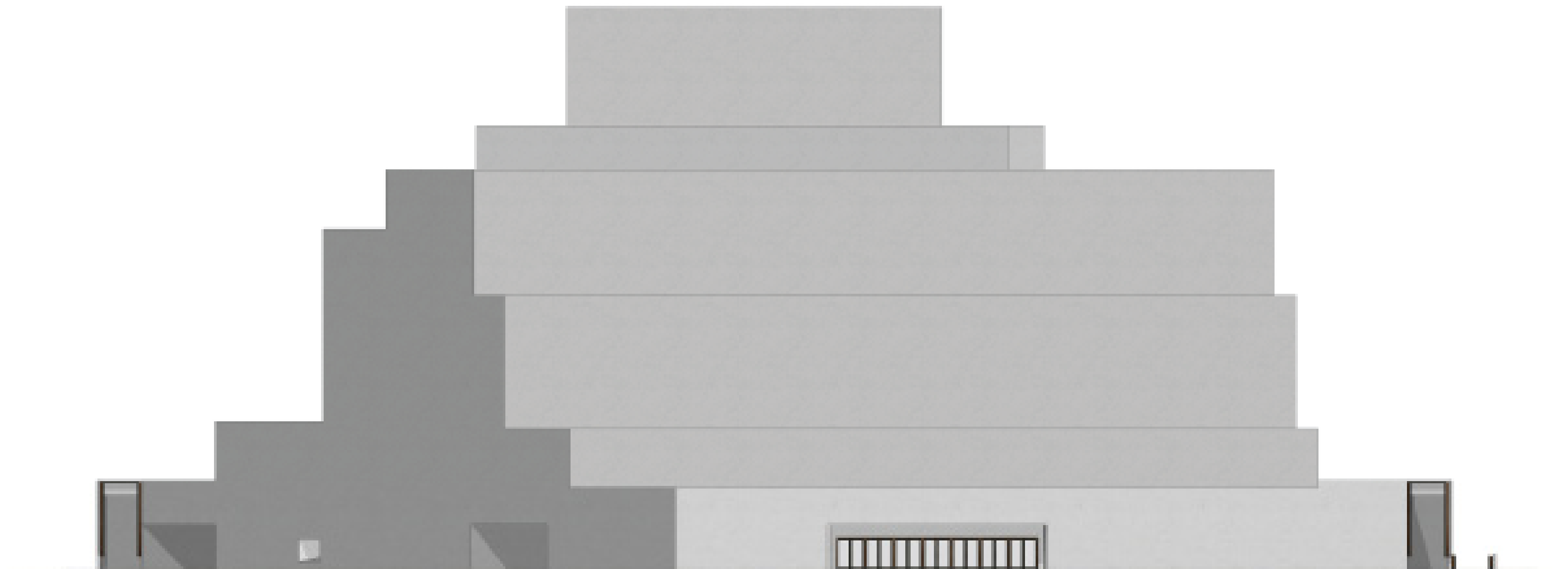








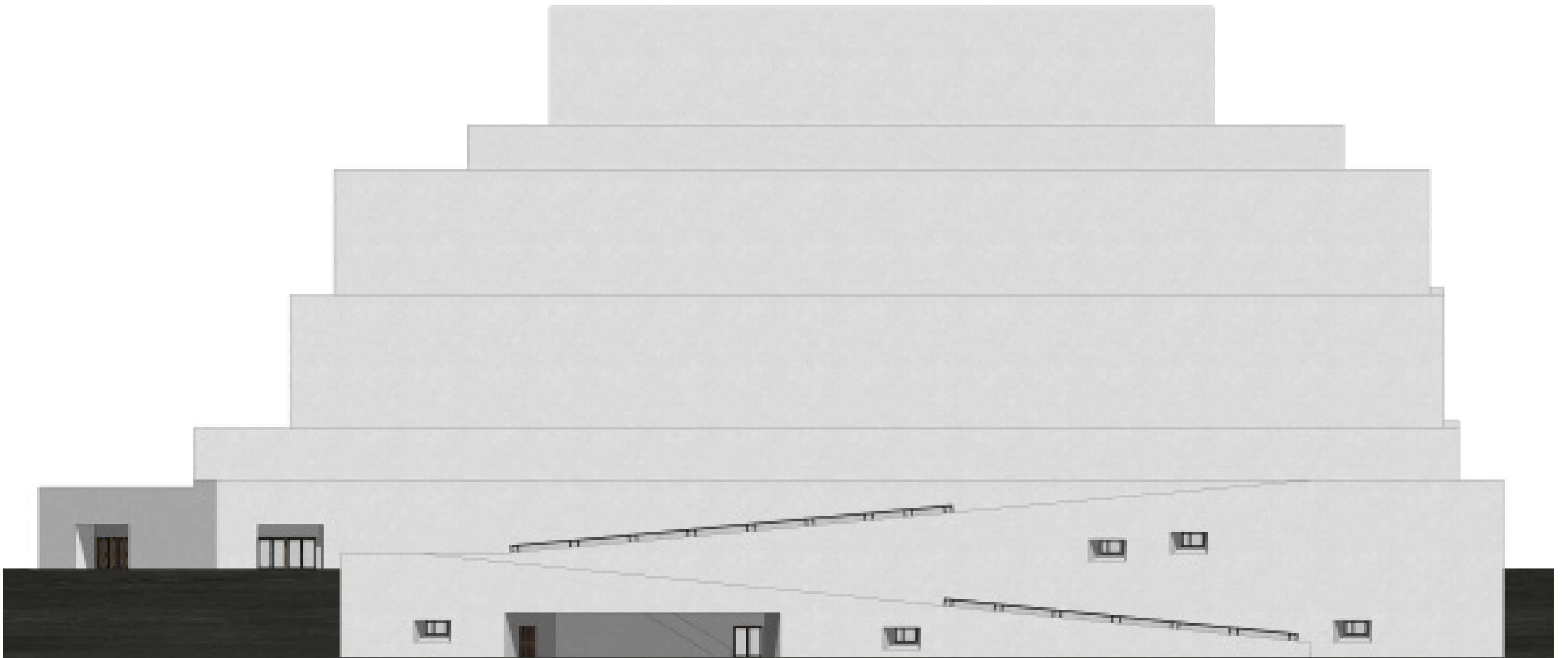




North Elevation 1:250



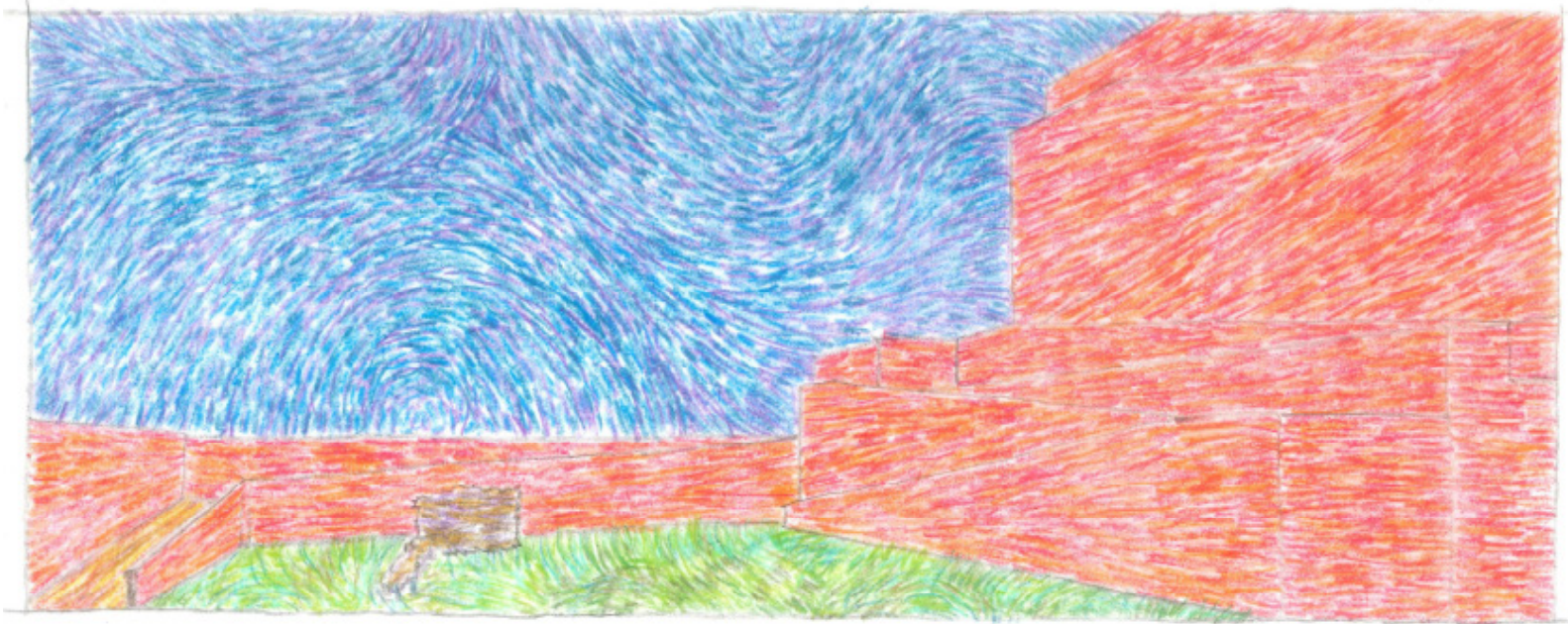
West Elevation 1:250

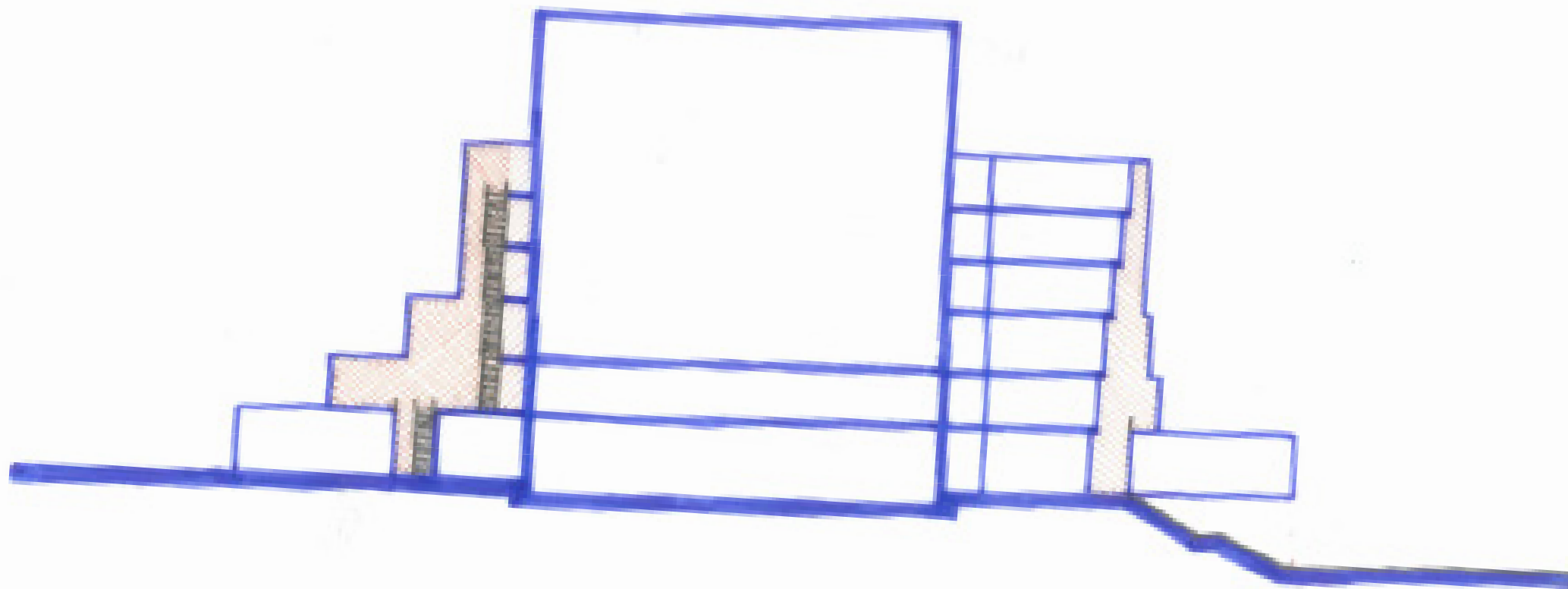
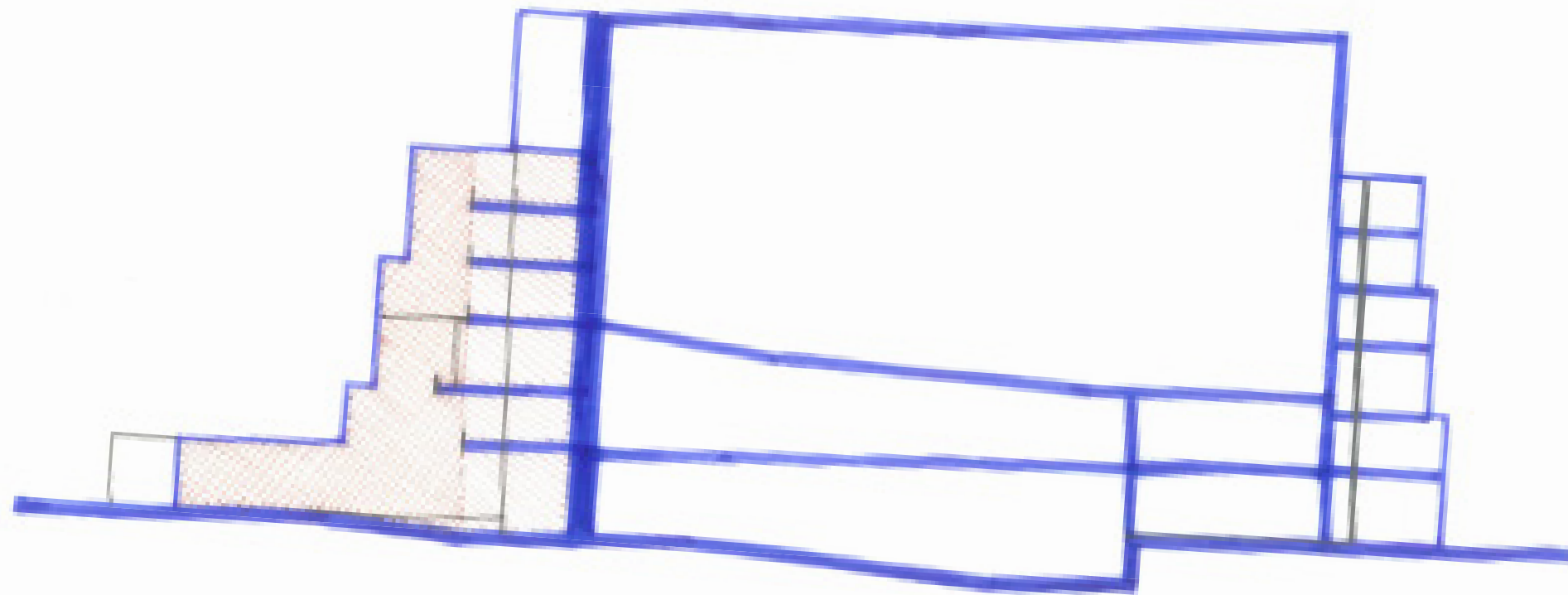


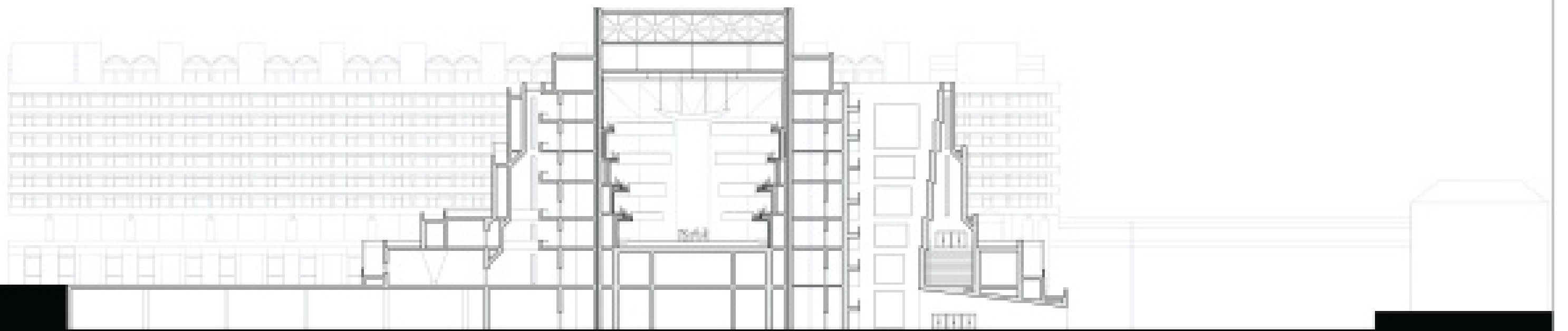
East Elevation 1:250



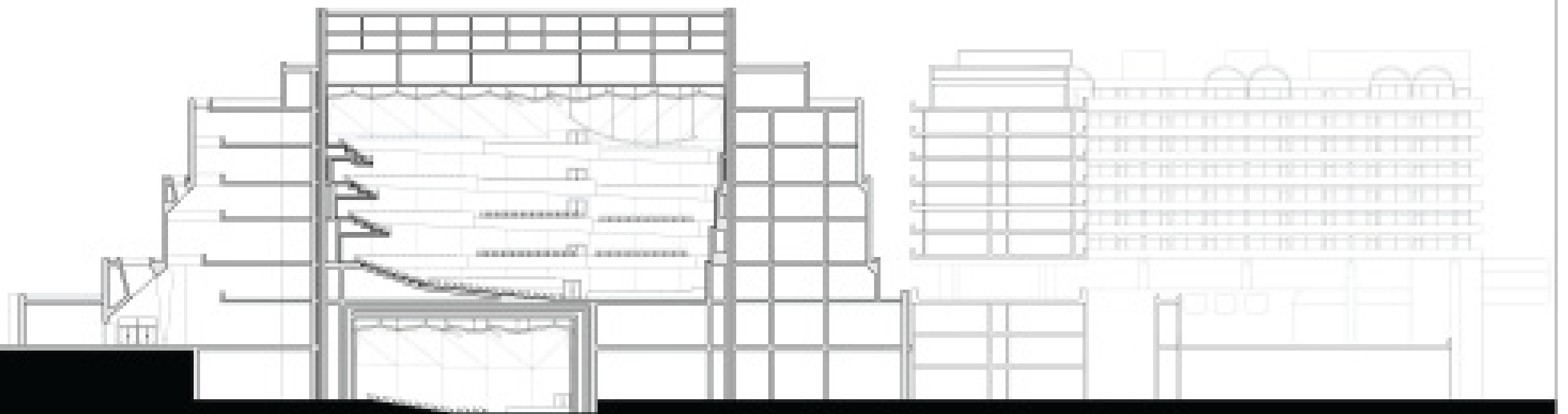
South Elevation 1:250







A-A Section 1258



B-B Section 1.21a

function & plan

External Areas

- Taxi drop off
- Coach drop off
- External public spaces and routes

Public Areas 4000

- Weather lobby
- Cloakroom
- Box office

Arrival 175

Foyer

2500

- Bar counters and serving
- Bar storage
- Toilets-male
- Toilets-female
- Toilets-accessible

Hospitality 500

- Multi-purpose of different scales x 3
- Supporting facilities

Carting 750

- Cafe and kitchen
- Restaurant

Retail 75

Conert Hall 2625

Auditorium

2000

Platform 400

- Projection and Video
- Sound
- Lighting
- Broadcast
- Follow spot position

Control rooms 225

Backstage Areas 1650

Storage 850

- Offices 100
- Green room / bar 150

Other performers areas and dressing rooms 550

- Large dressing rooms
- Soloist dressing rooms
- Conductor's dressing rooms

Education, Rehearsal and Other Performance 1475

LSO Chorus rehearsal room 380

Club / Informal venue 500

- LSO / GSM Chamber hall 125
- GSM Lecture space 175

Small LSO / GSM rehearsal rooms 175

Education / hire rooms x 4 120 x 4

Building Operation, Administration 910

- Staff canteen + kitchen 125
- Cleaning 100

- Cleaning dept. central storage
- Cleaners rooms
- Cleaning department - office
- Cleaning department - staff lockers & lounge

Building maintenance 200

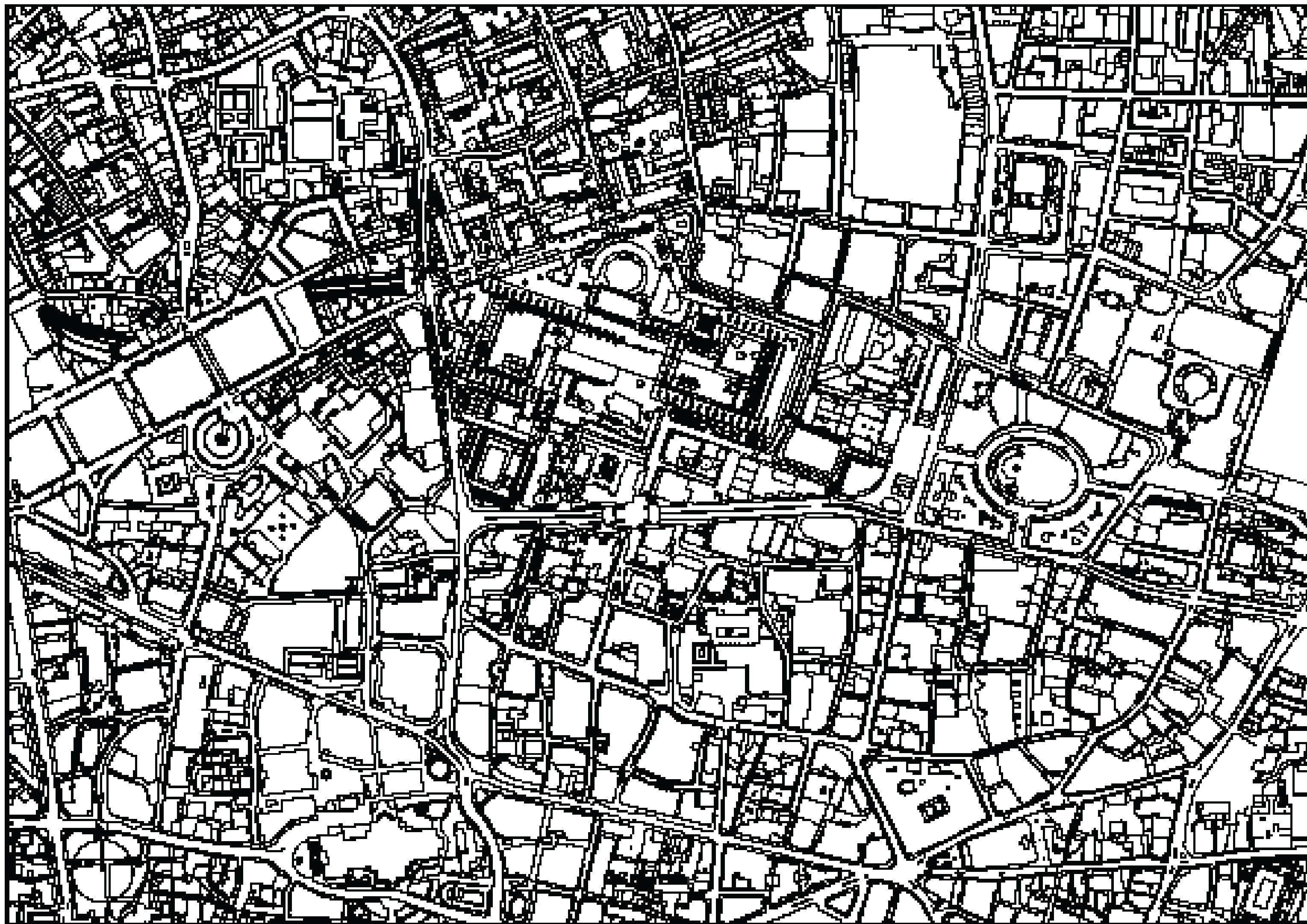
- Maintenance workshop
- Central storage
- Stage door waiting
- Stage door security
- Dock office

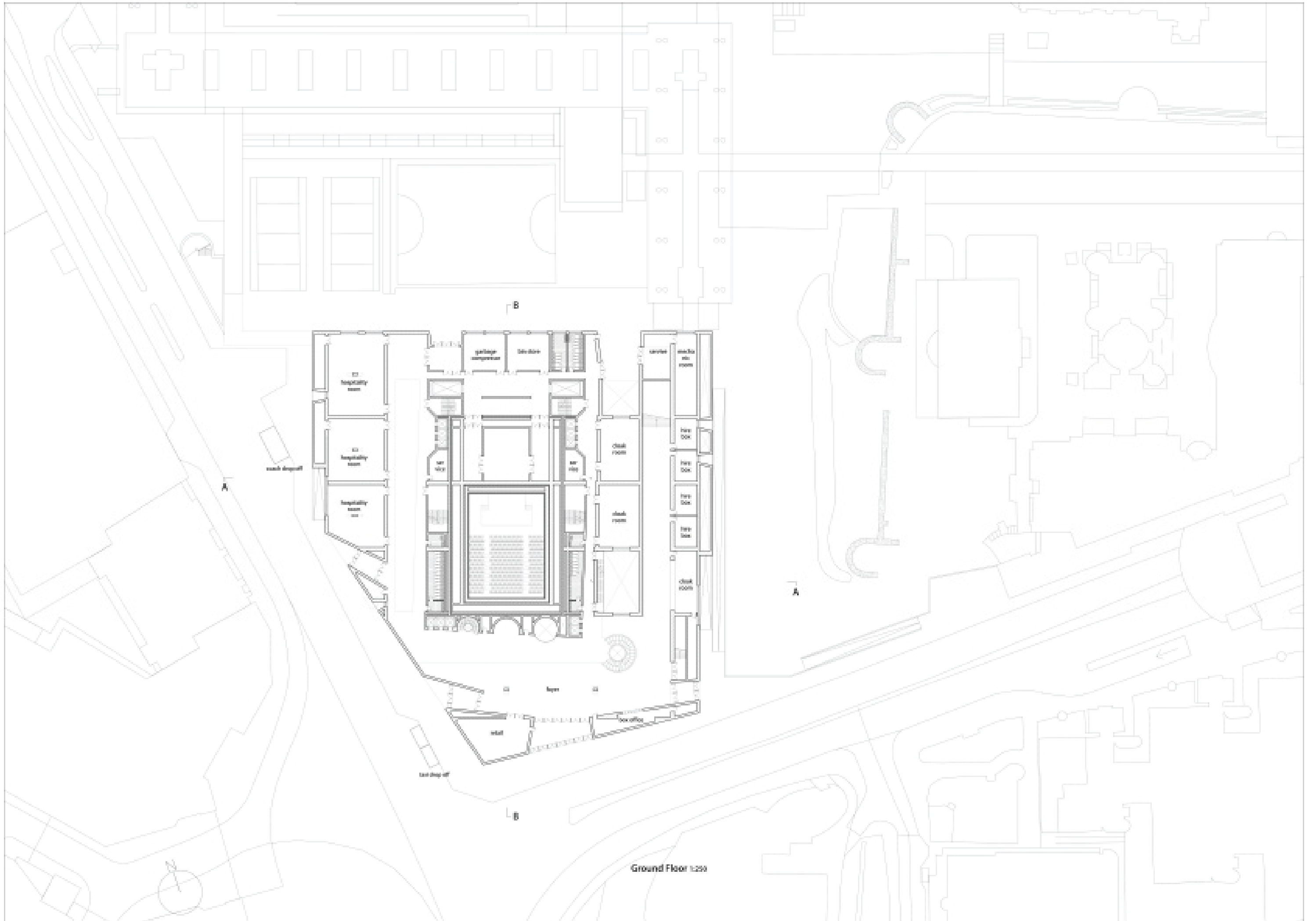
Stage door 50

- Bin store and garbage compressor 50
- Loading dock 100
- Outside broadcast vehicle parking 35

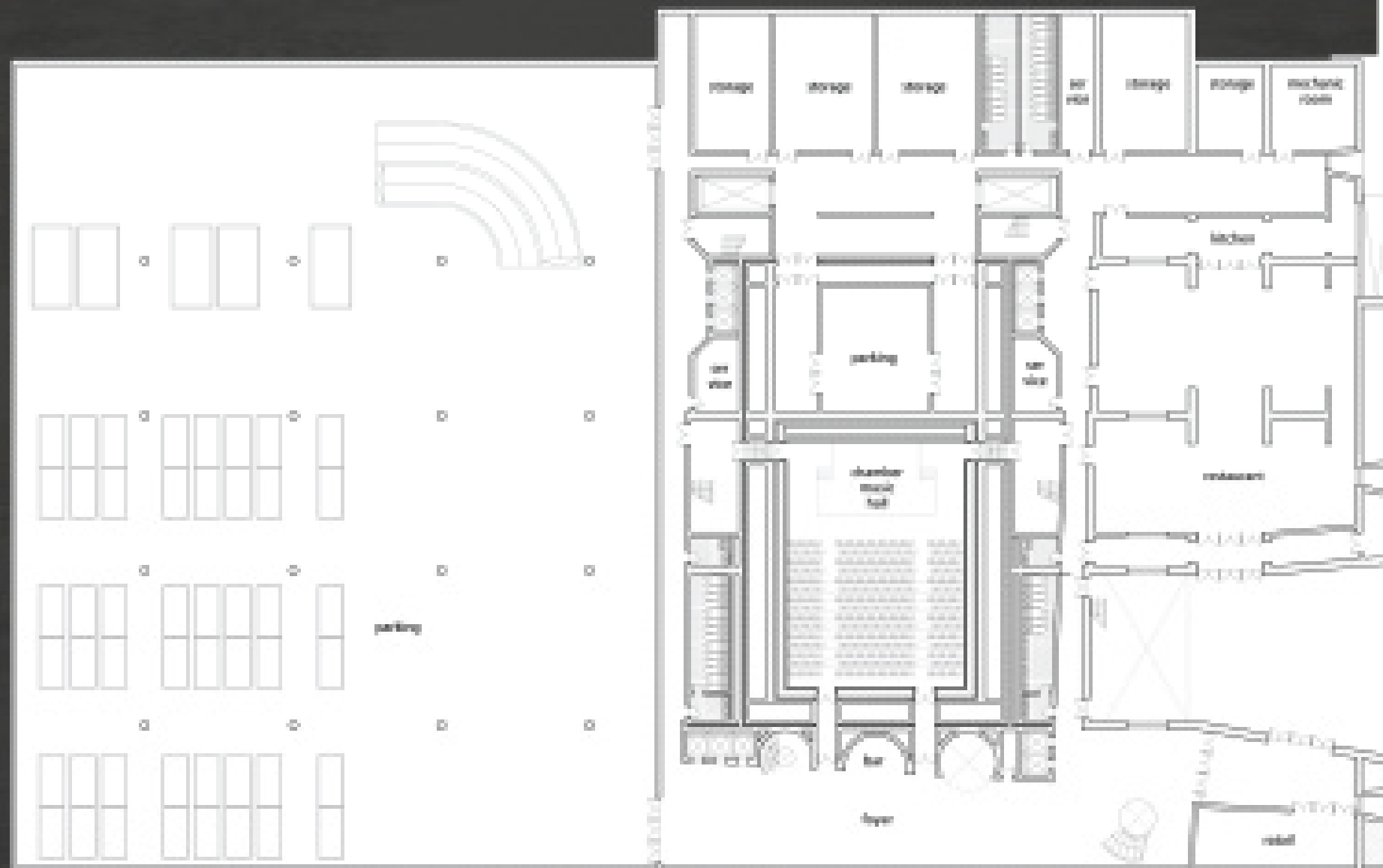
Offices 250

LSO / Barbican / Building Management

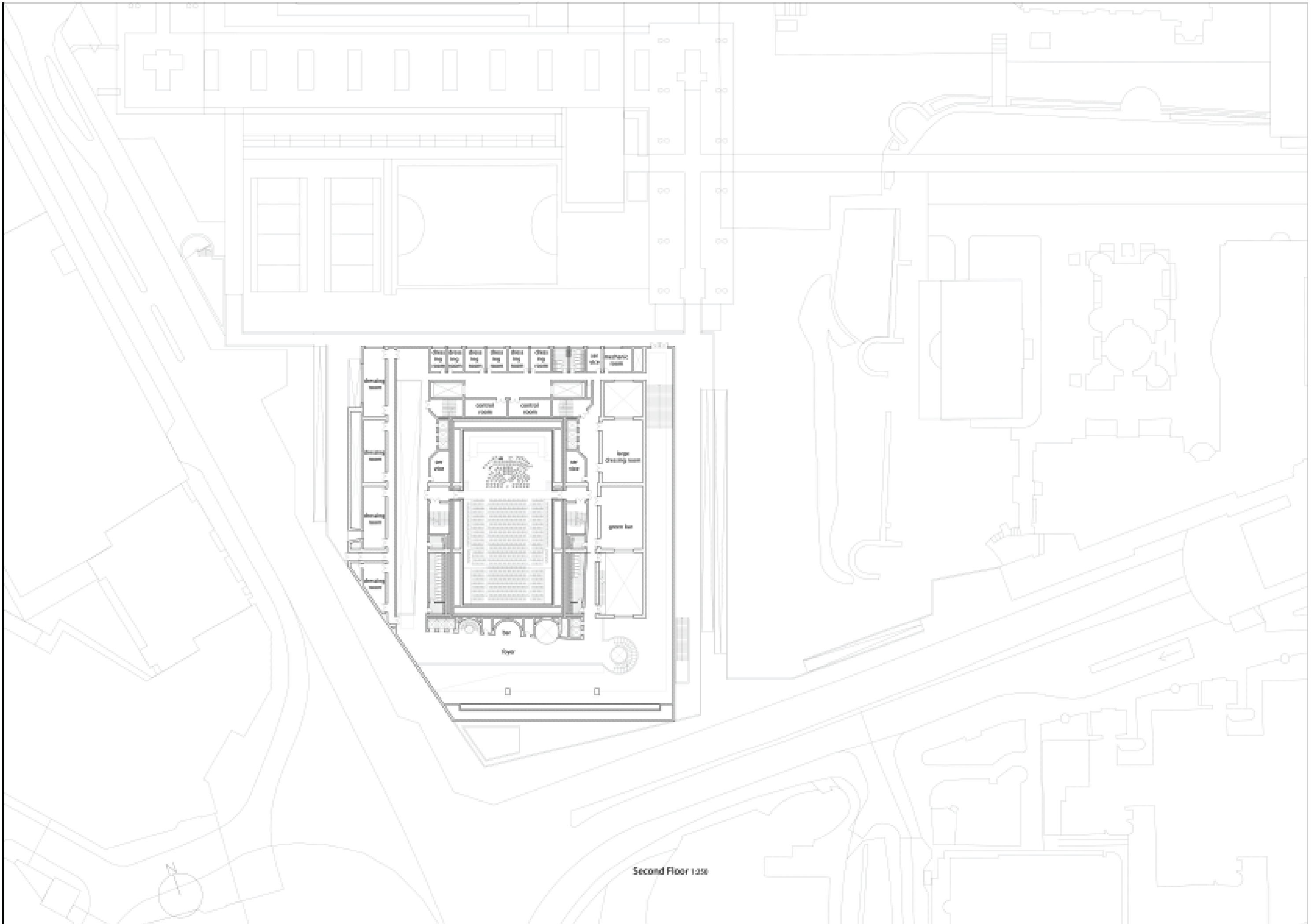




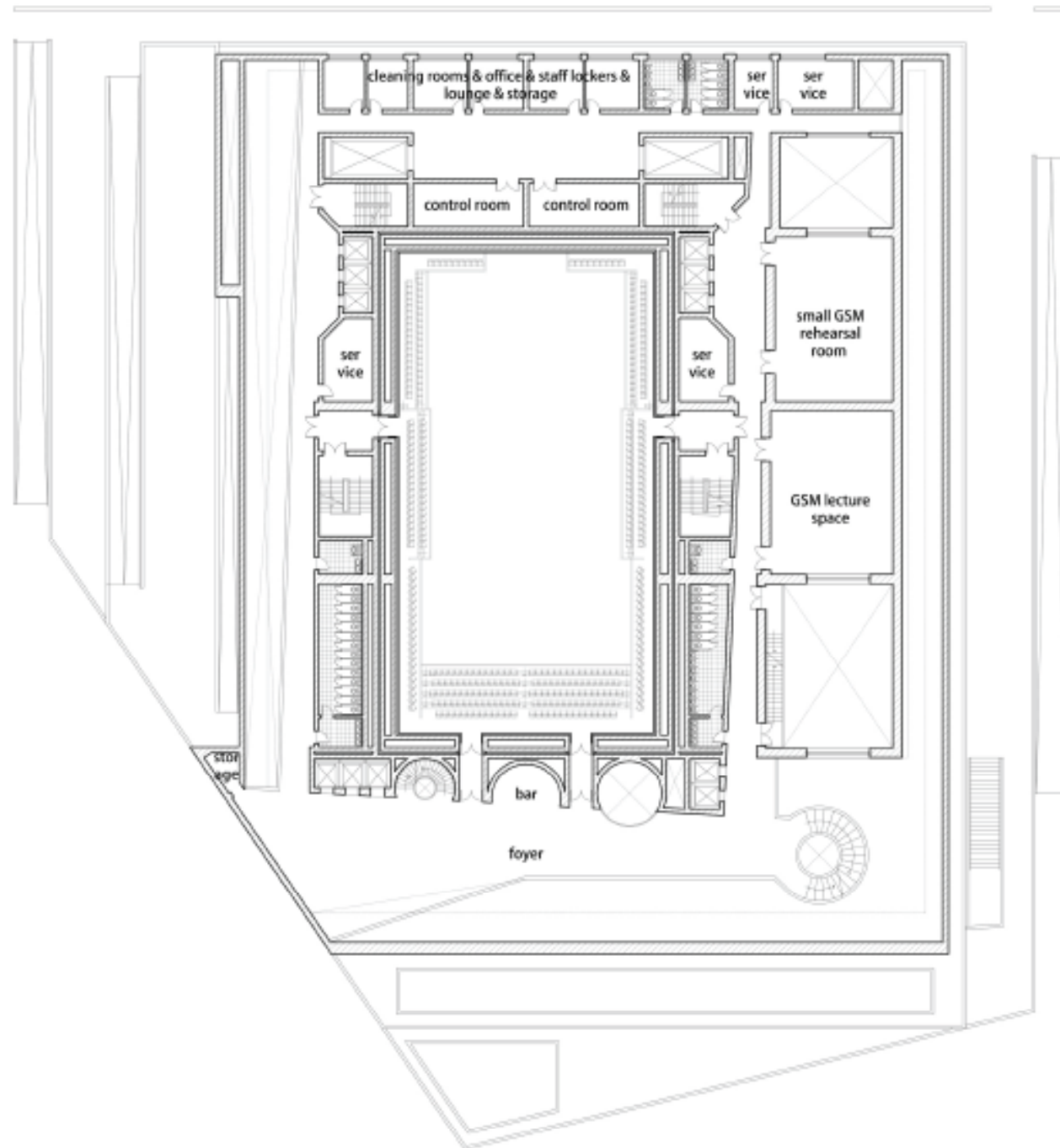
Ground Floor 1:250



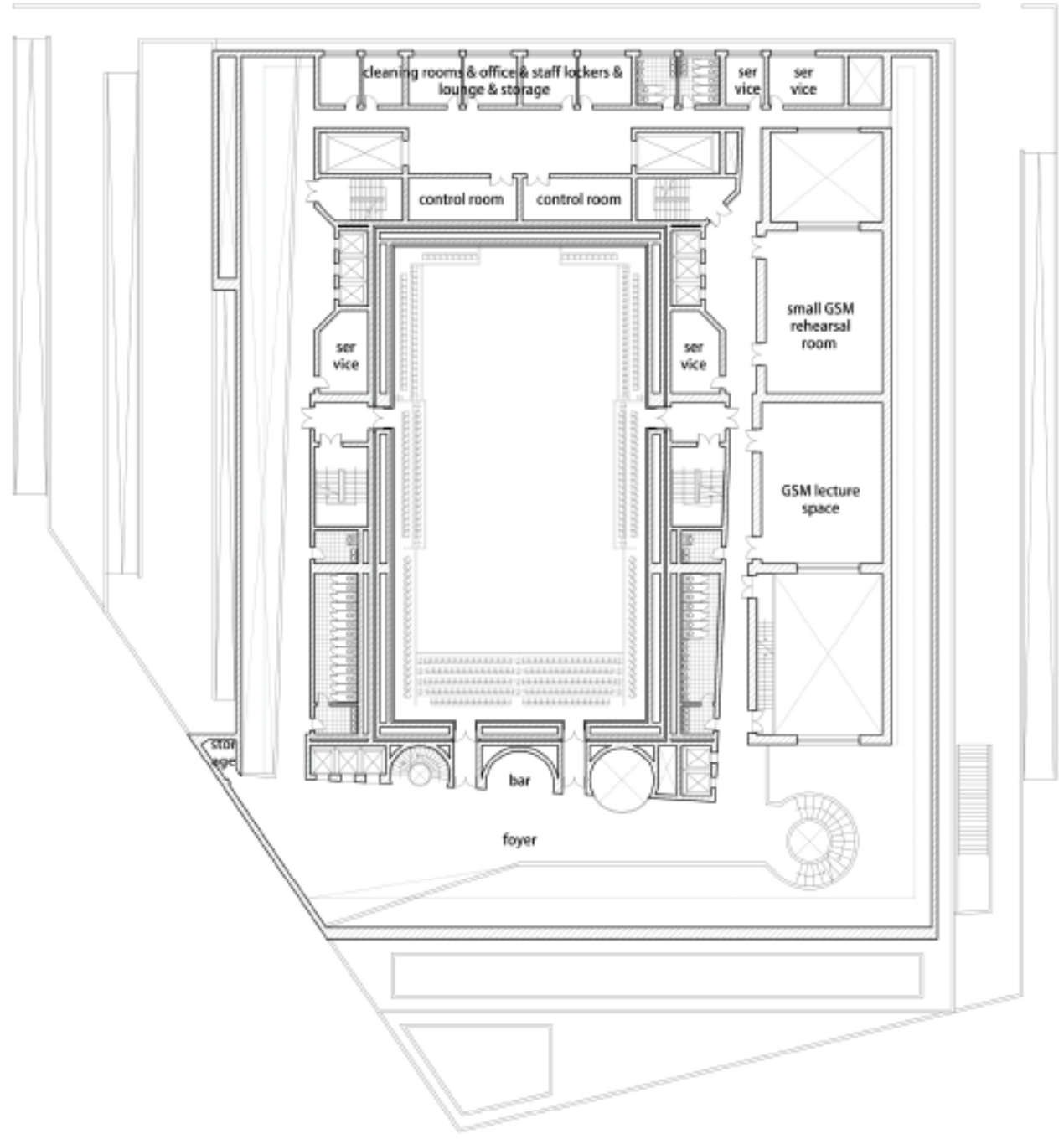
Underground Floor 1/258



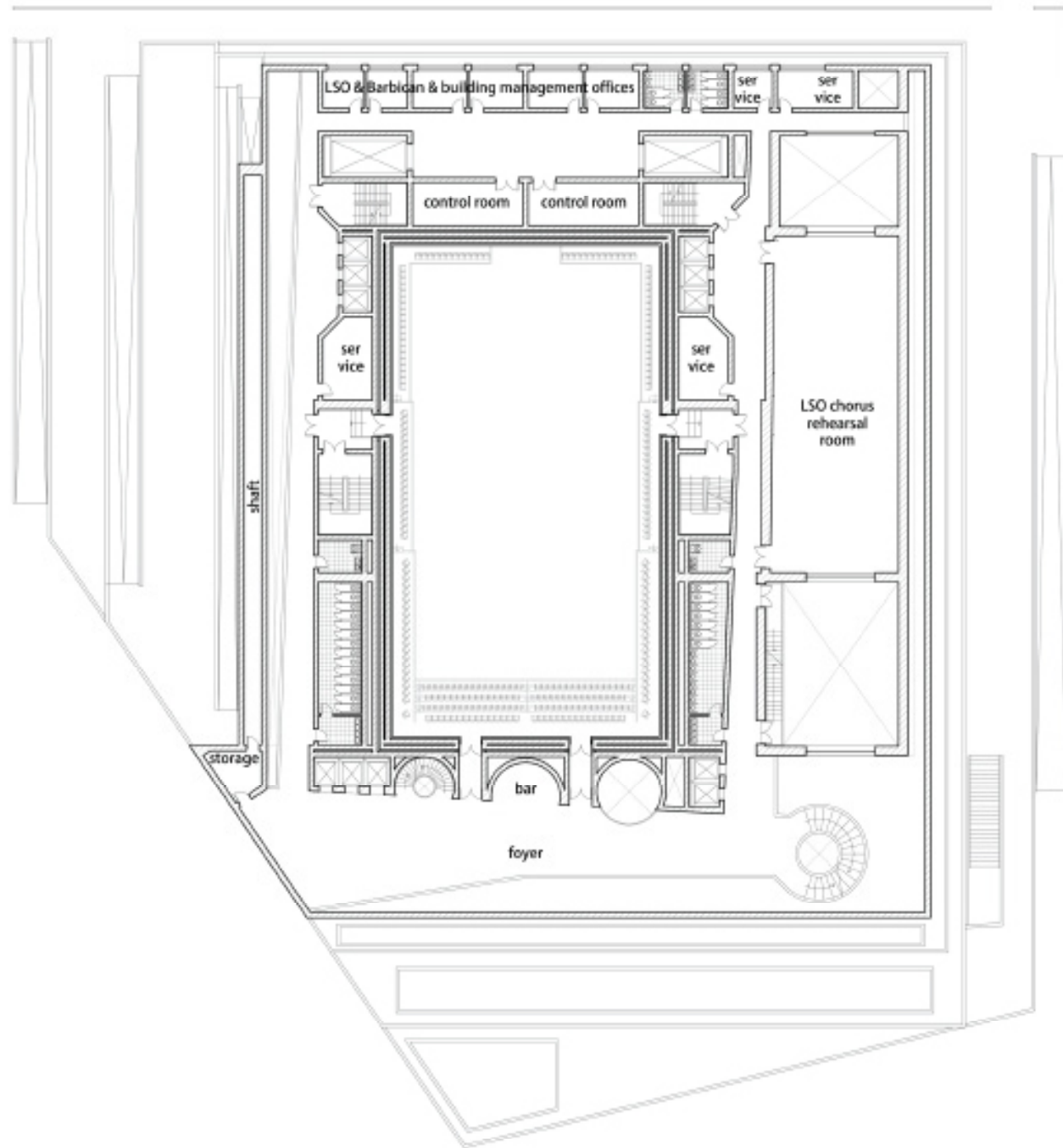
Second Floor 1258



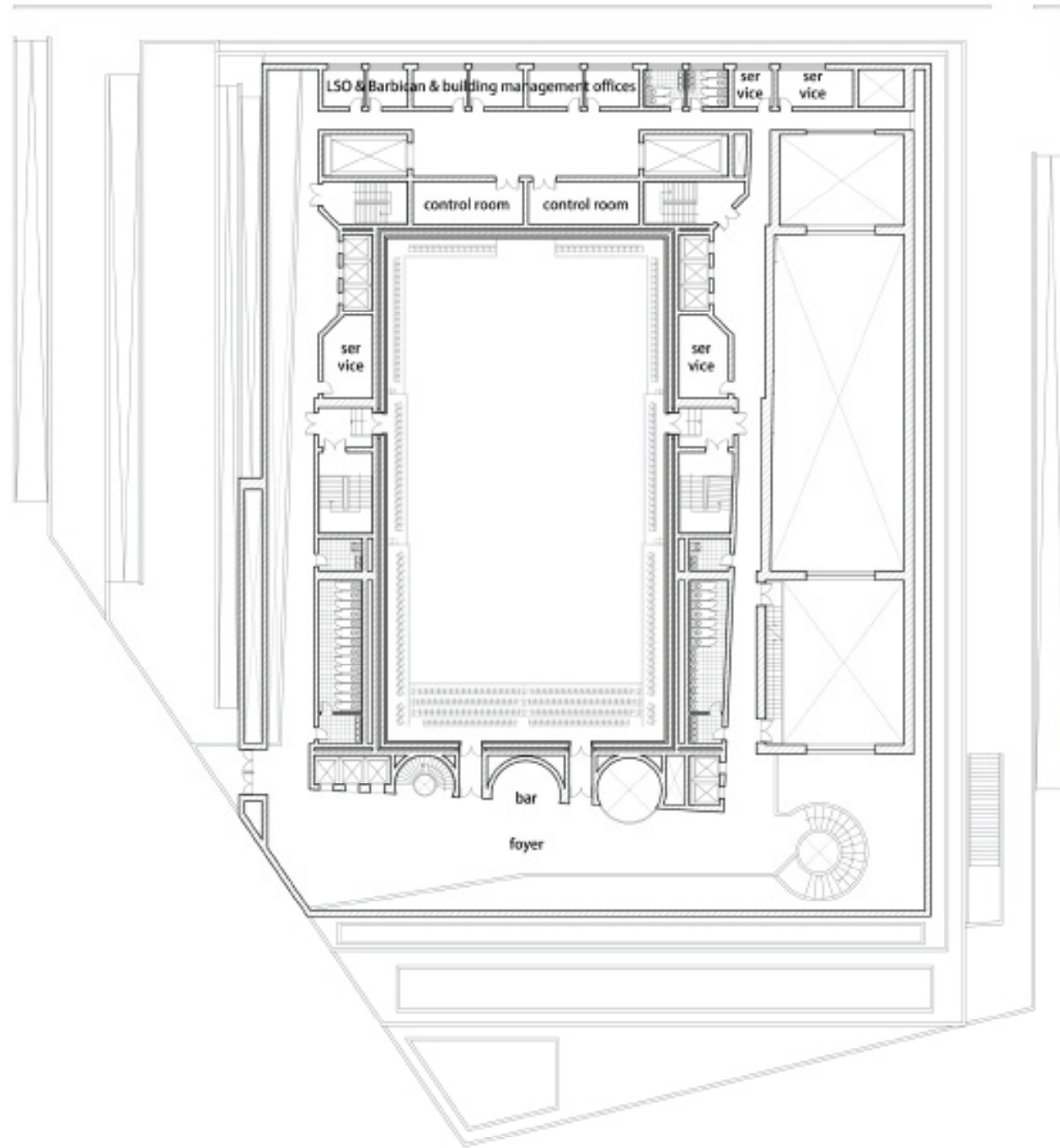
Third Floor 1:250



Third Floor 1:250



Fourth Floor 1:250



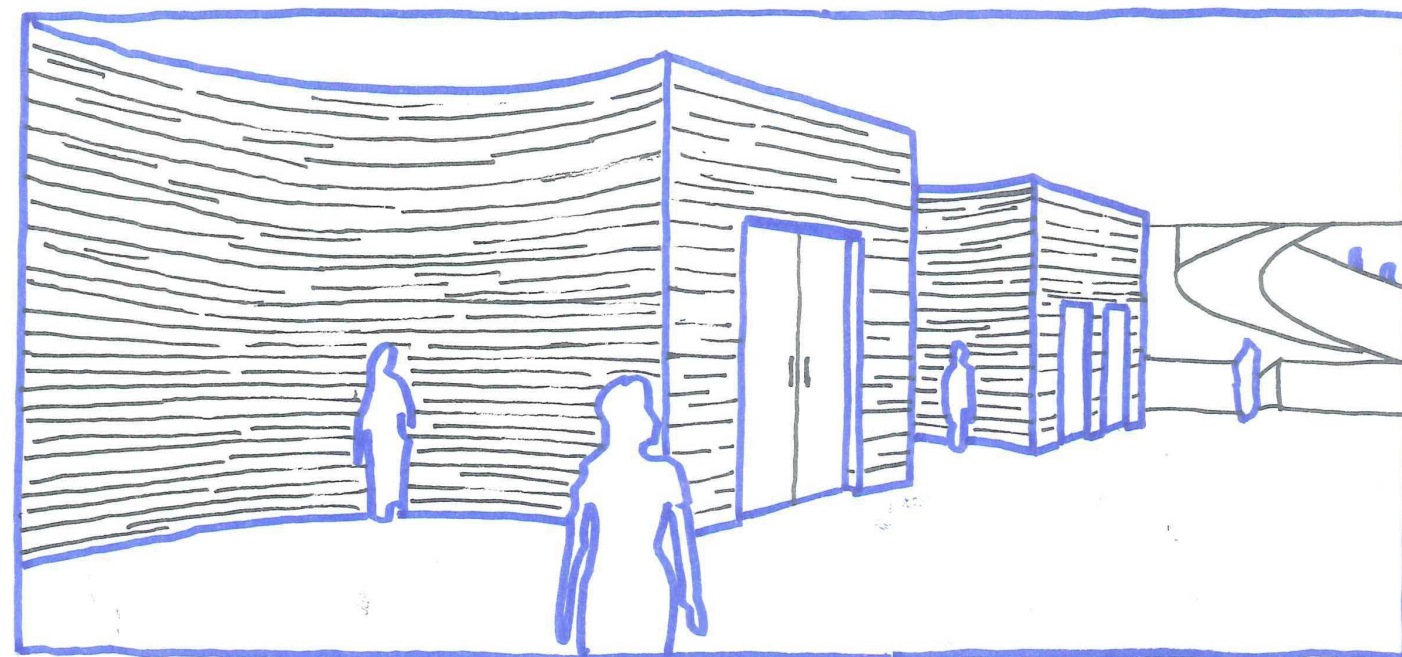
Fifth Floor 1:250

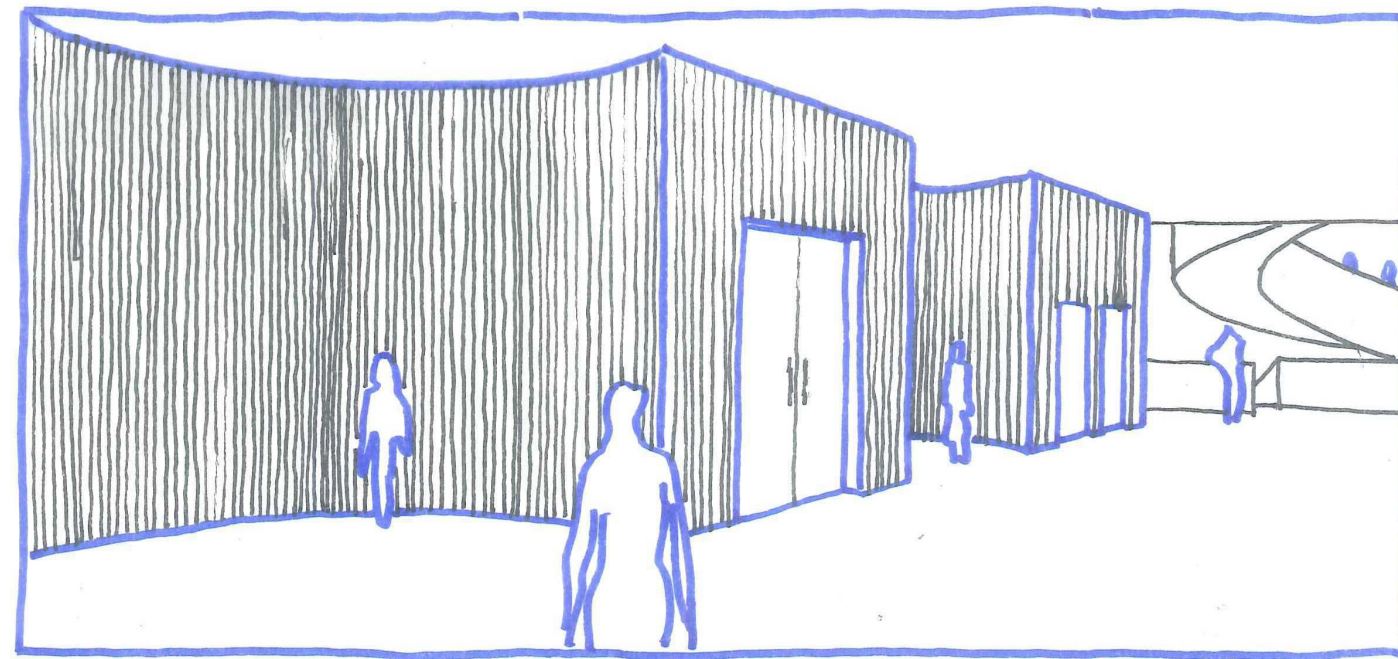
3 relics
half rotuna













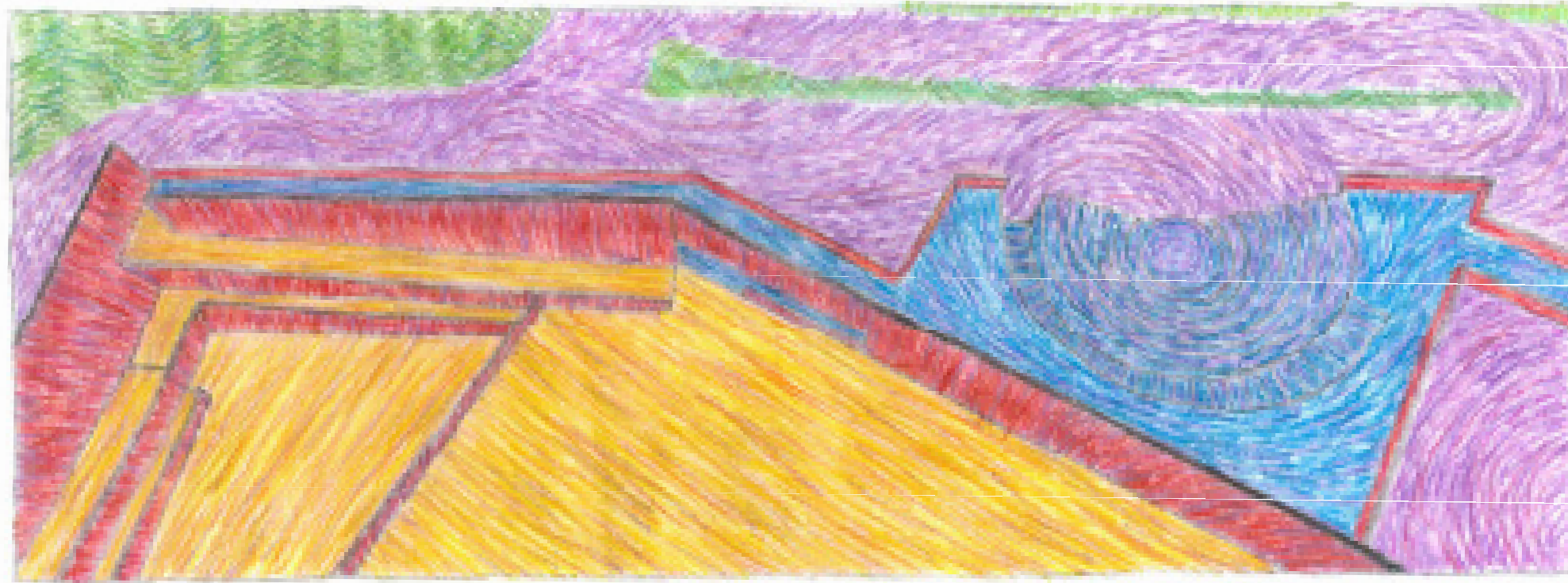


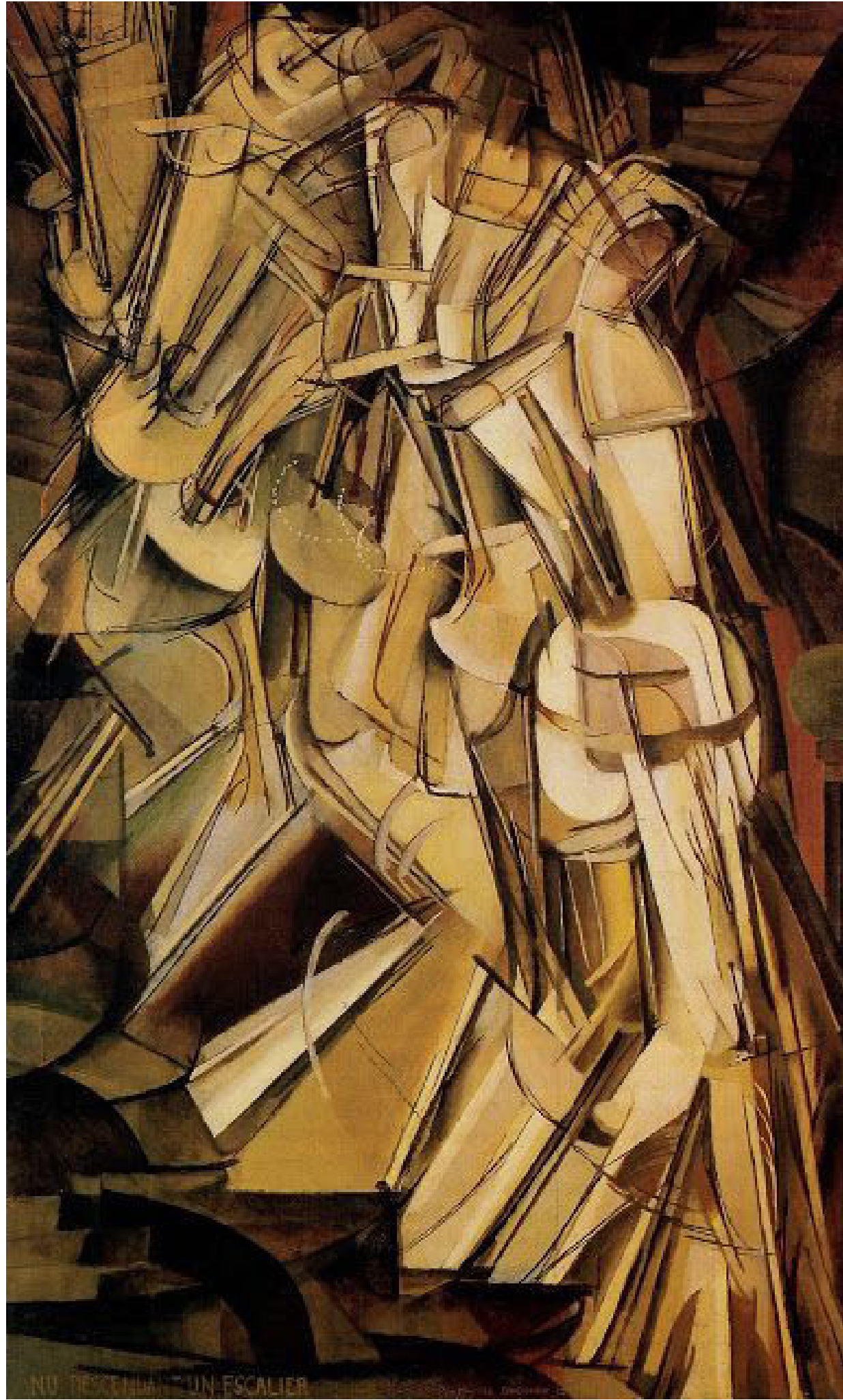












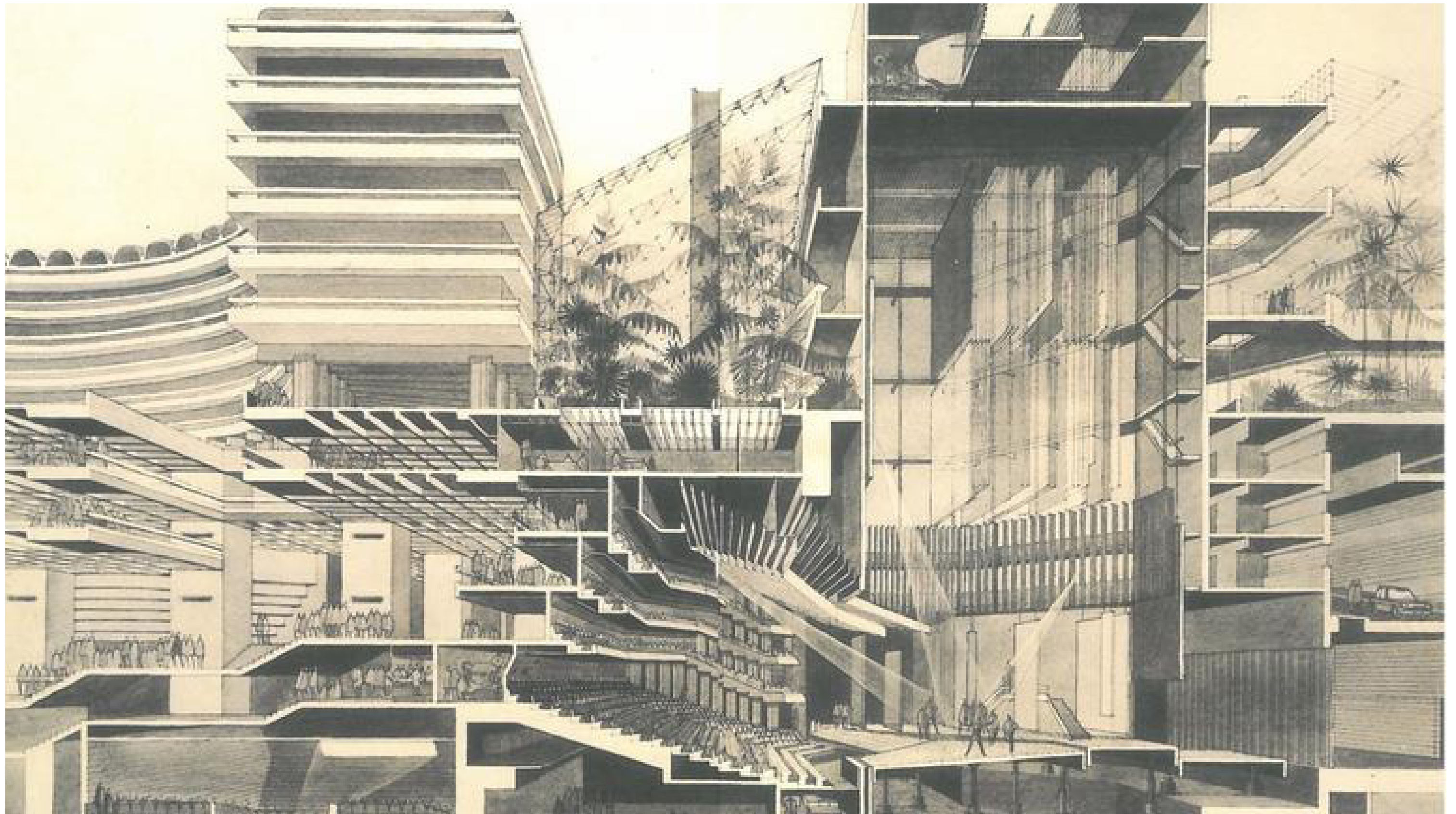




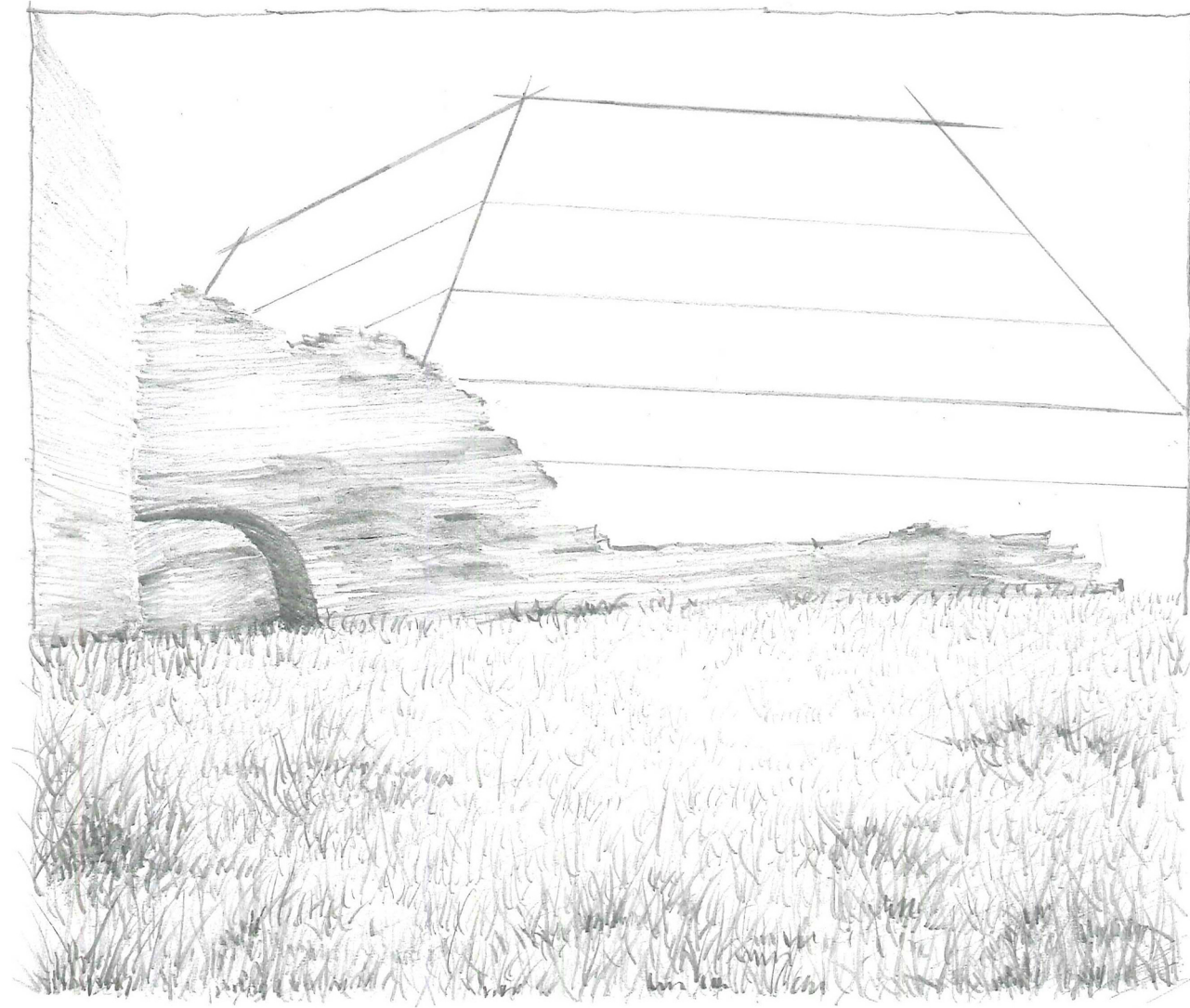


Contextualizing
Reminding
Imitation





Relics
People
Background







Auditorium:

Interaction
Atmosphere



Auditorium:

Materials
Acoustics
layer

Auditorium:

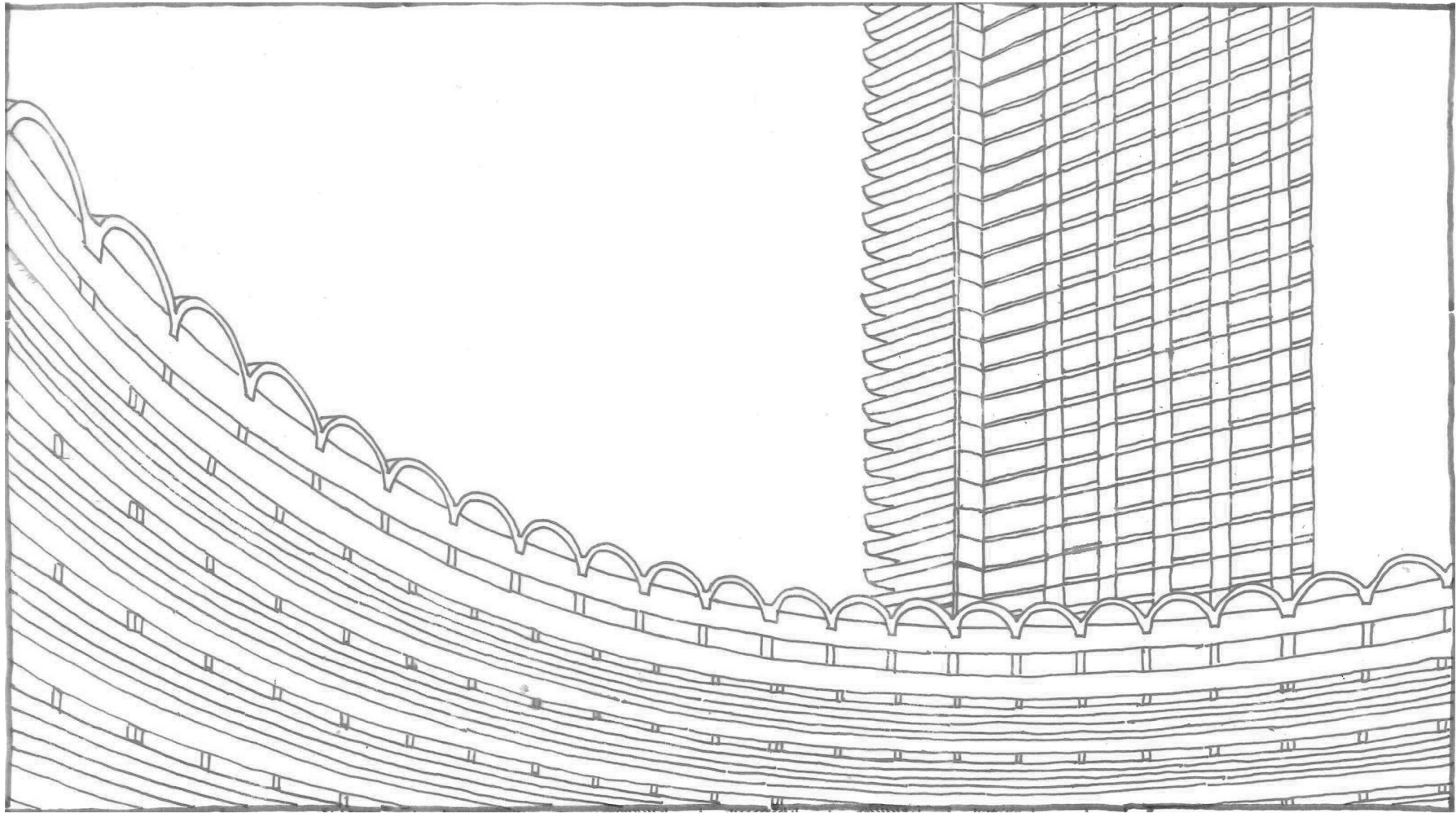
DESIGN

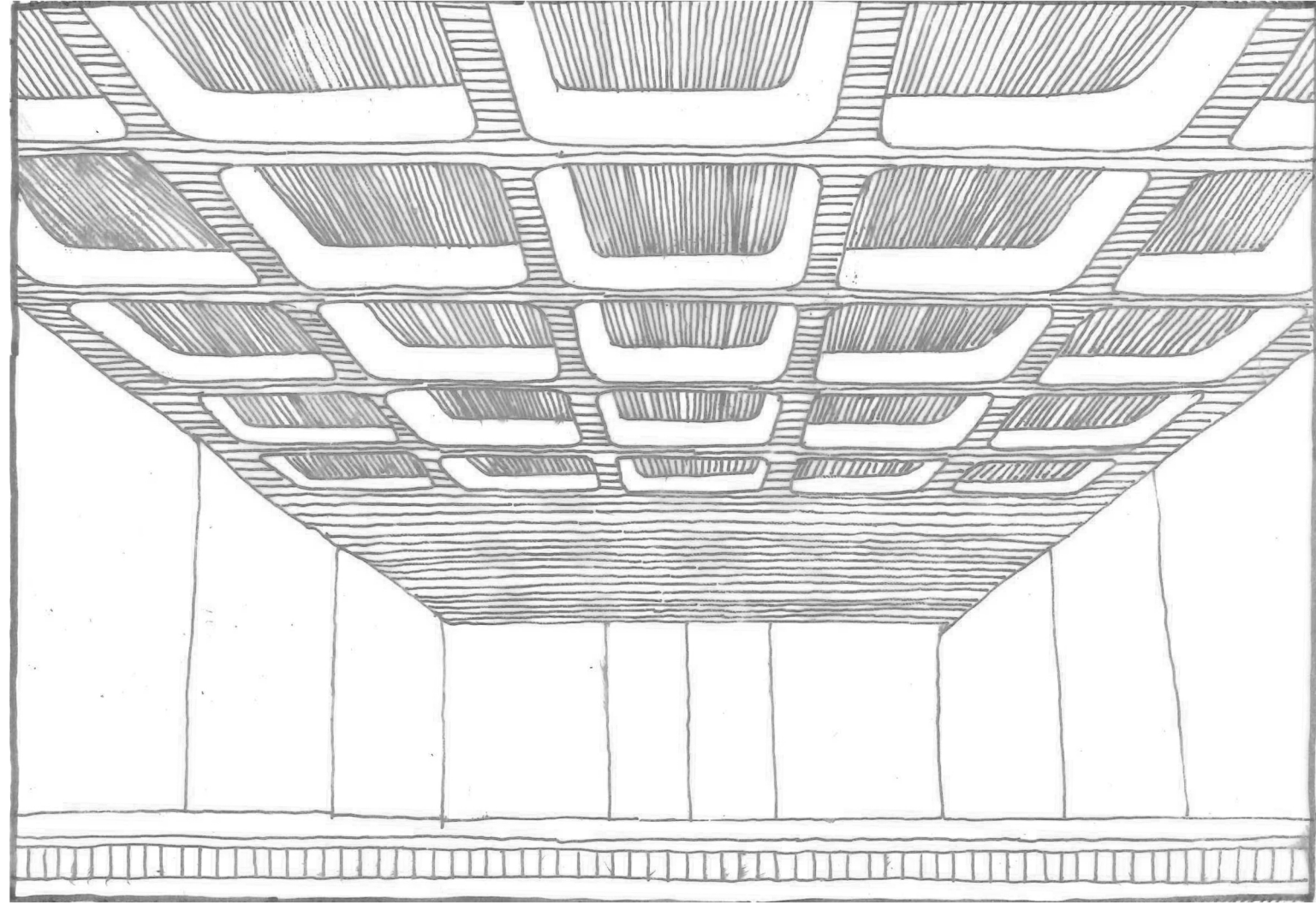


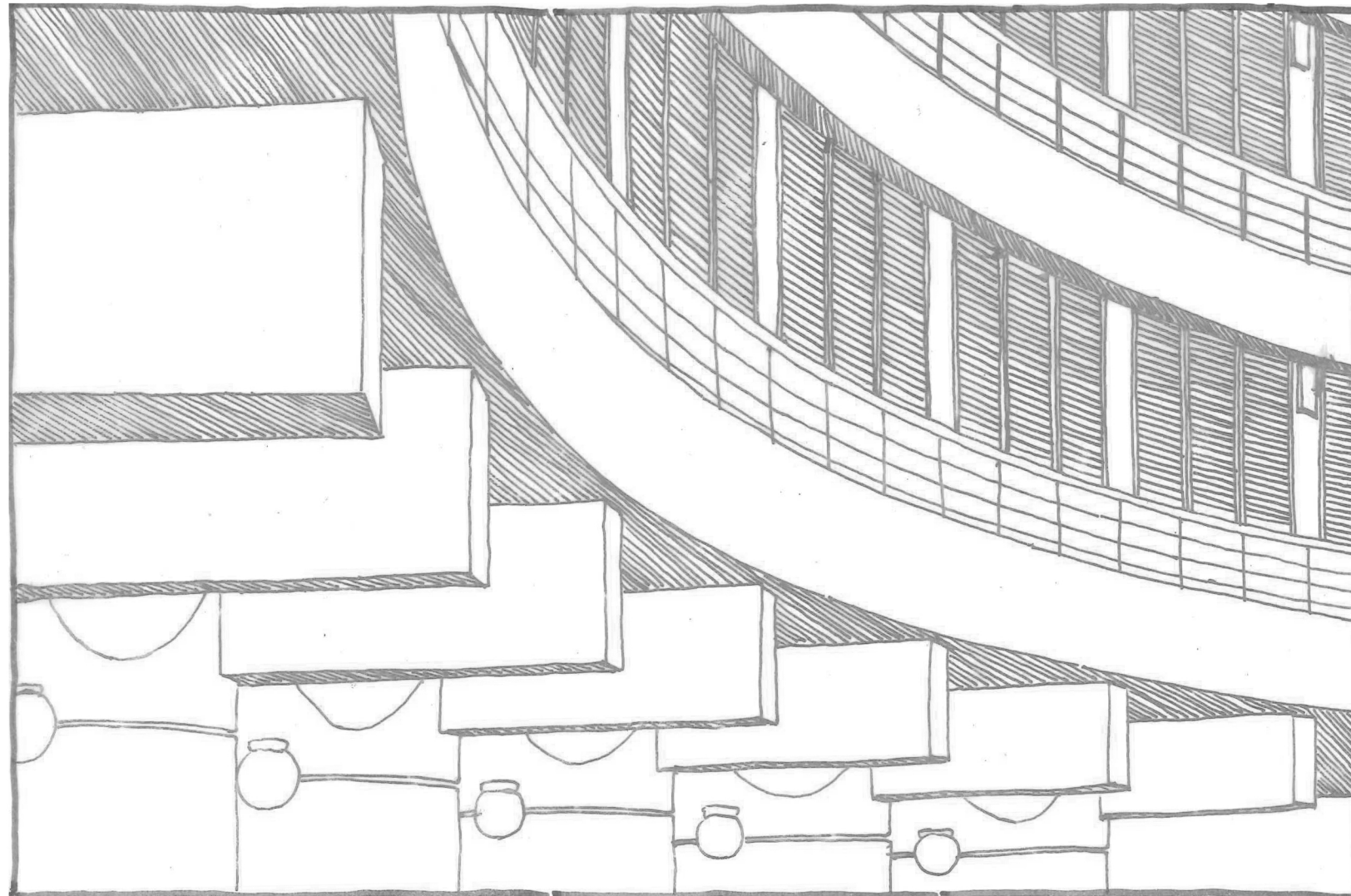
New York City Metropolitan Opera House

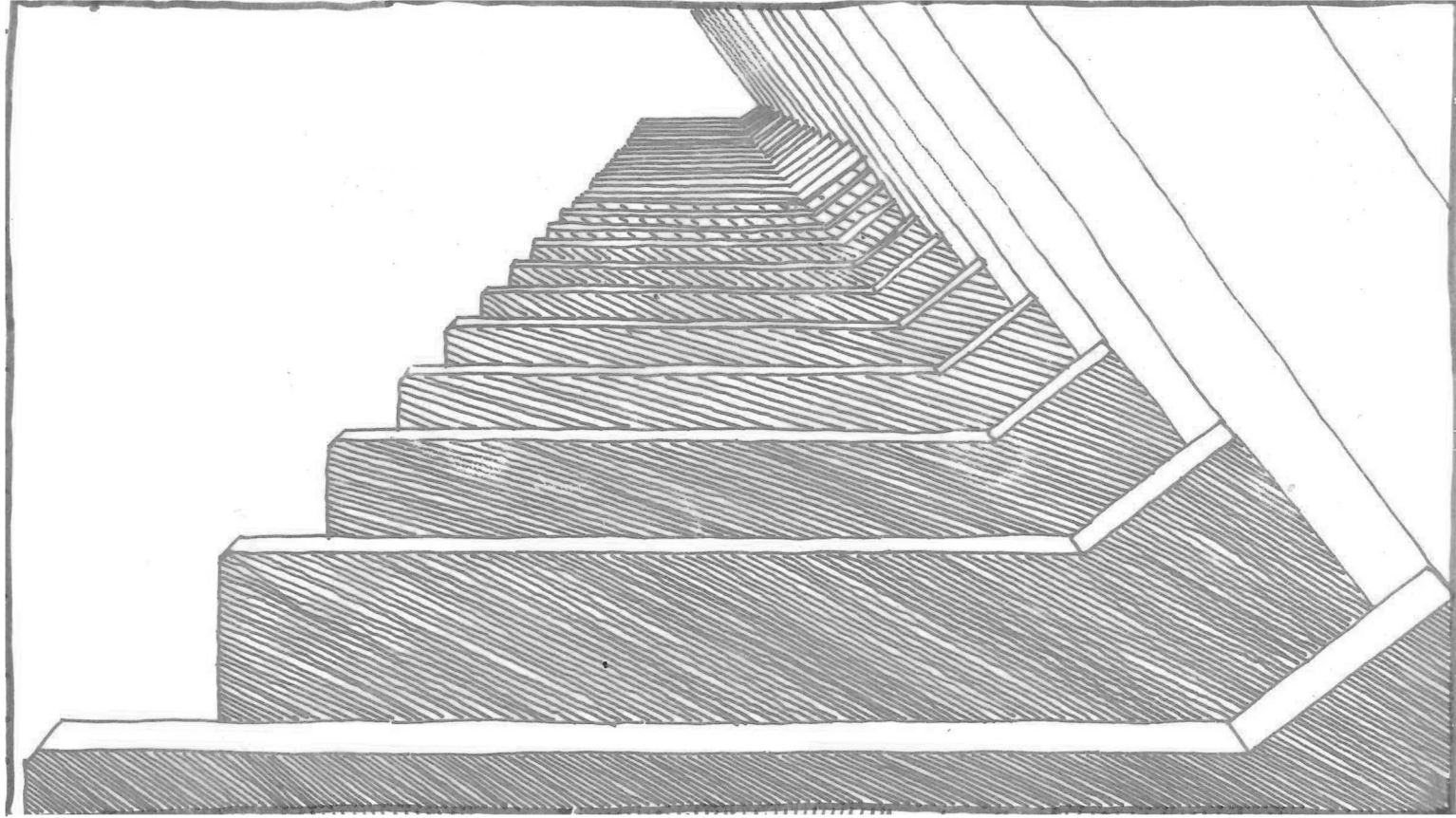


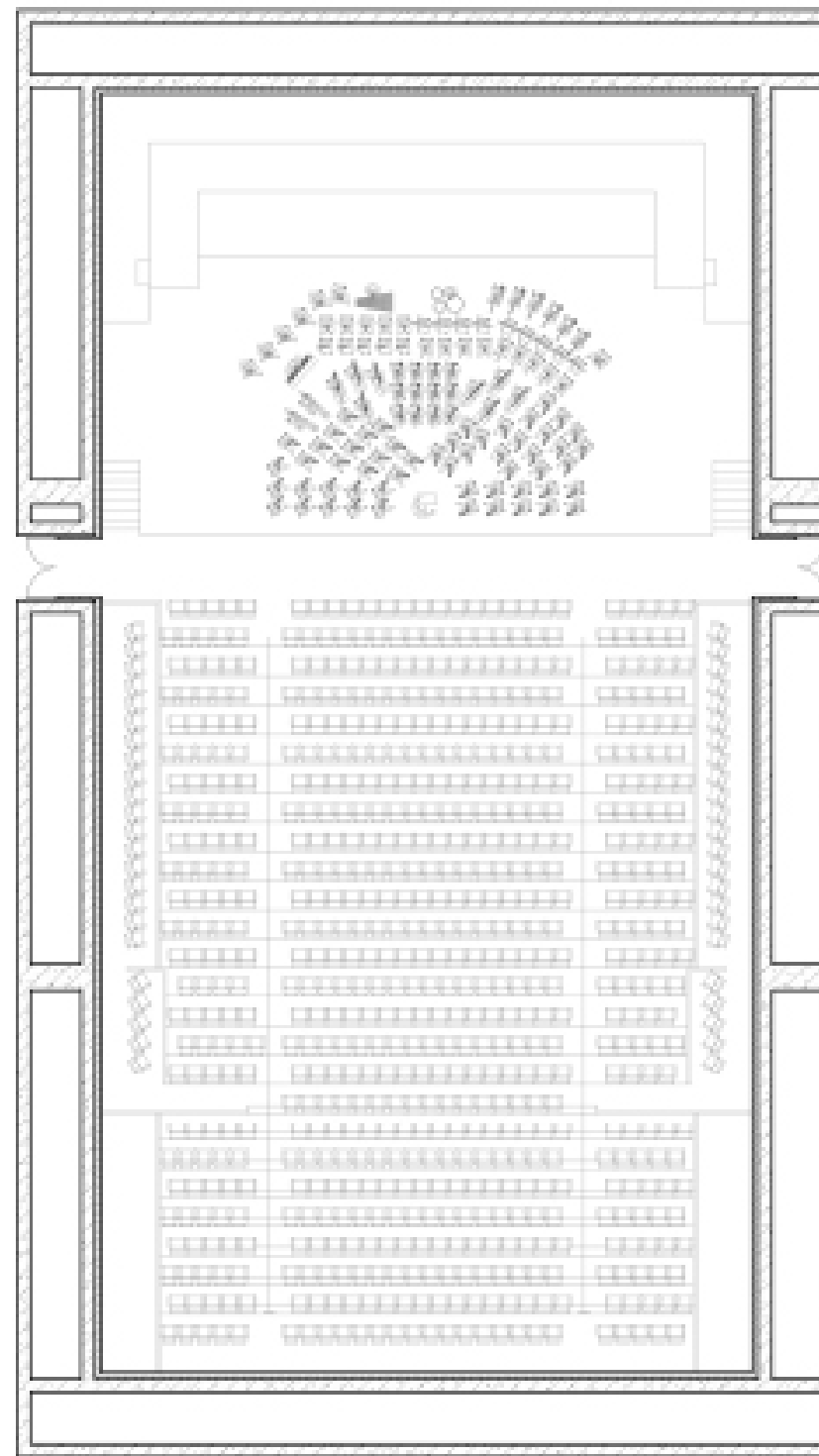
Barbican Residential Buildings



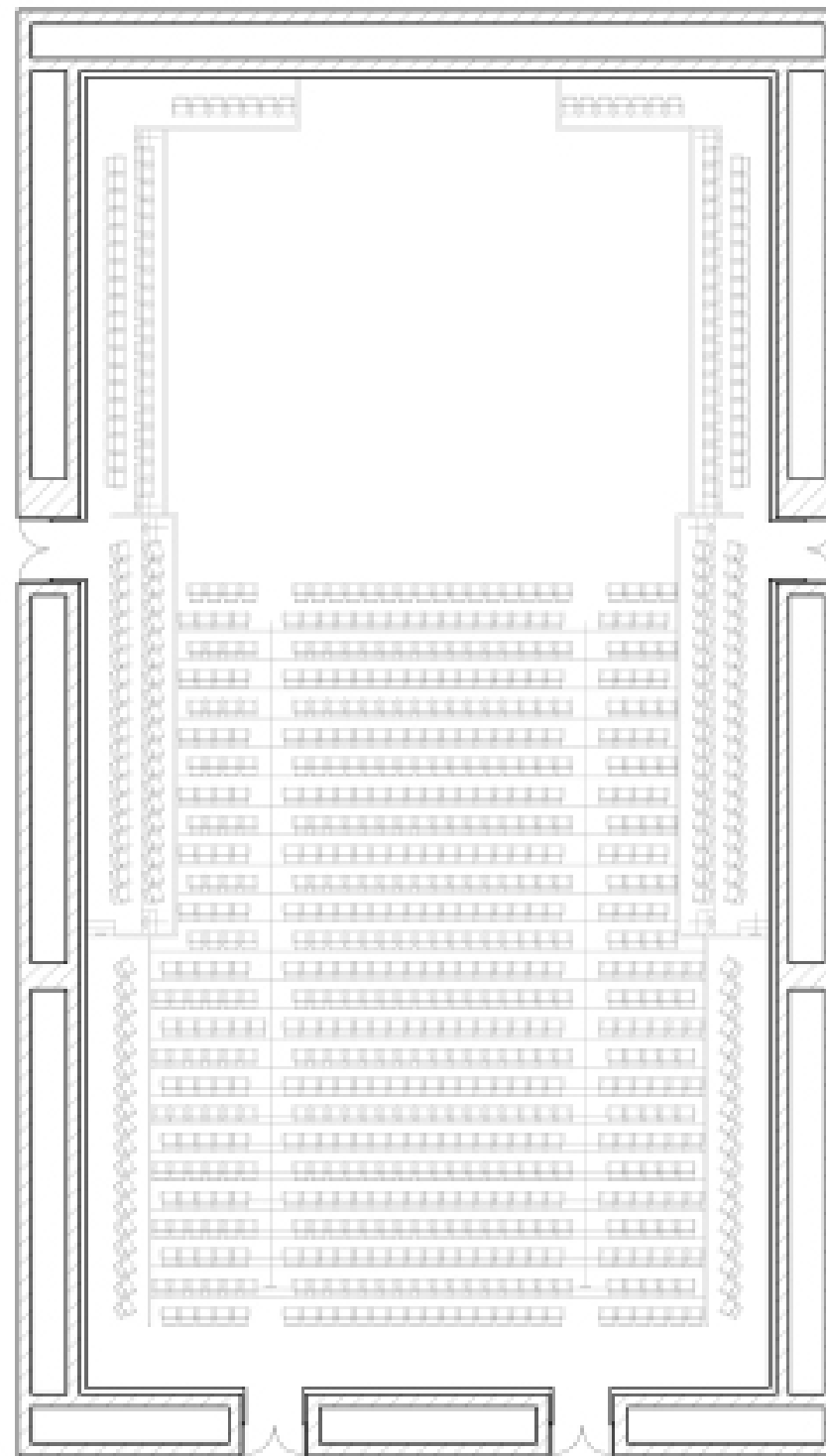




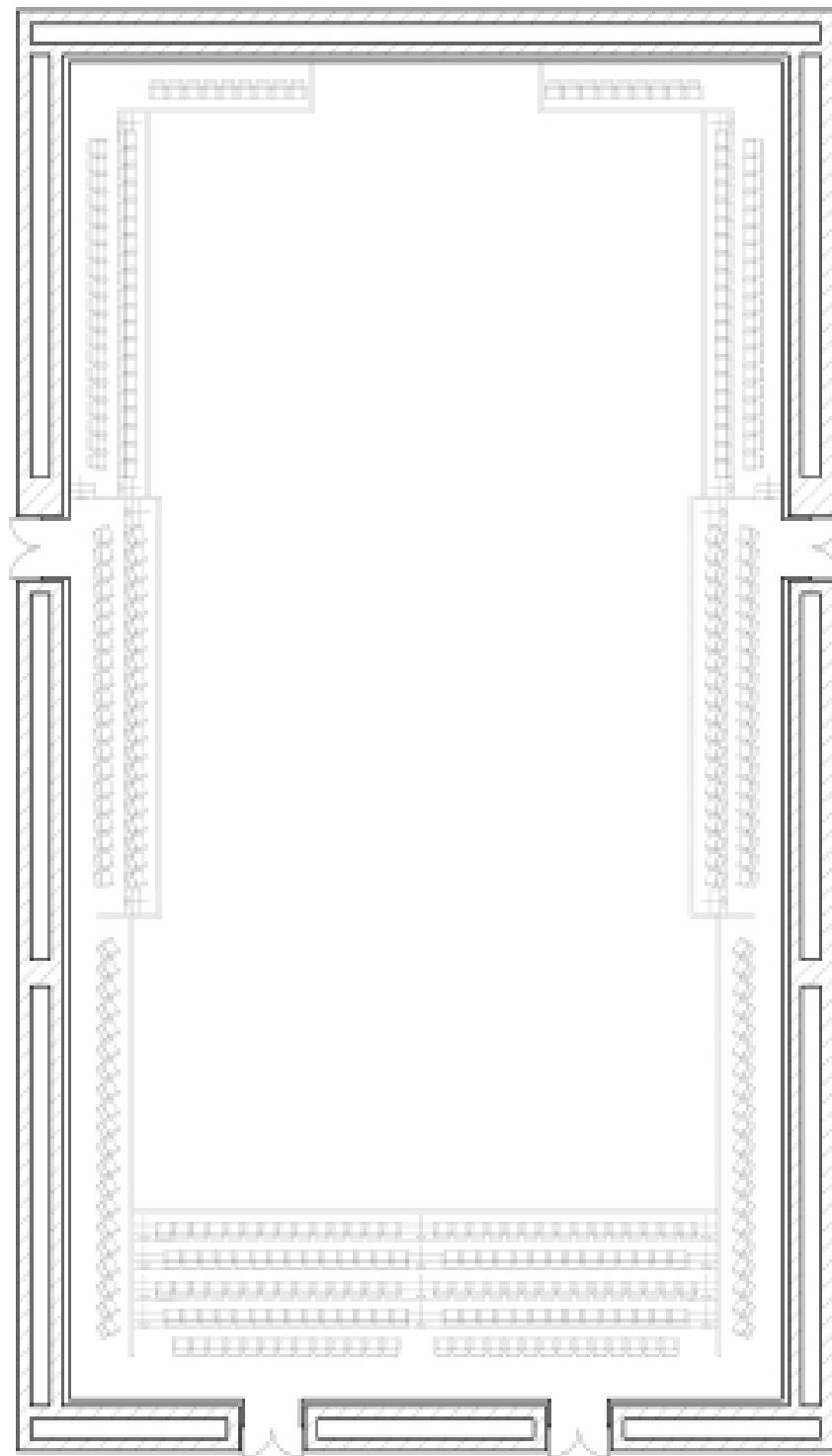




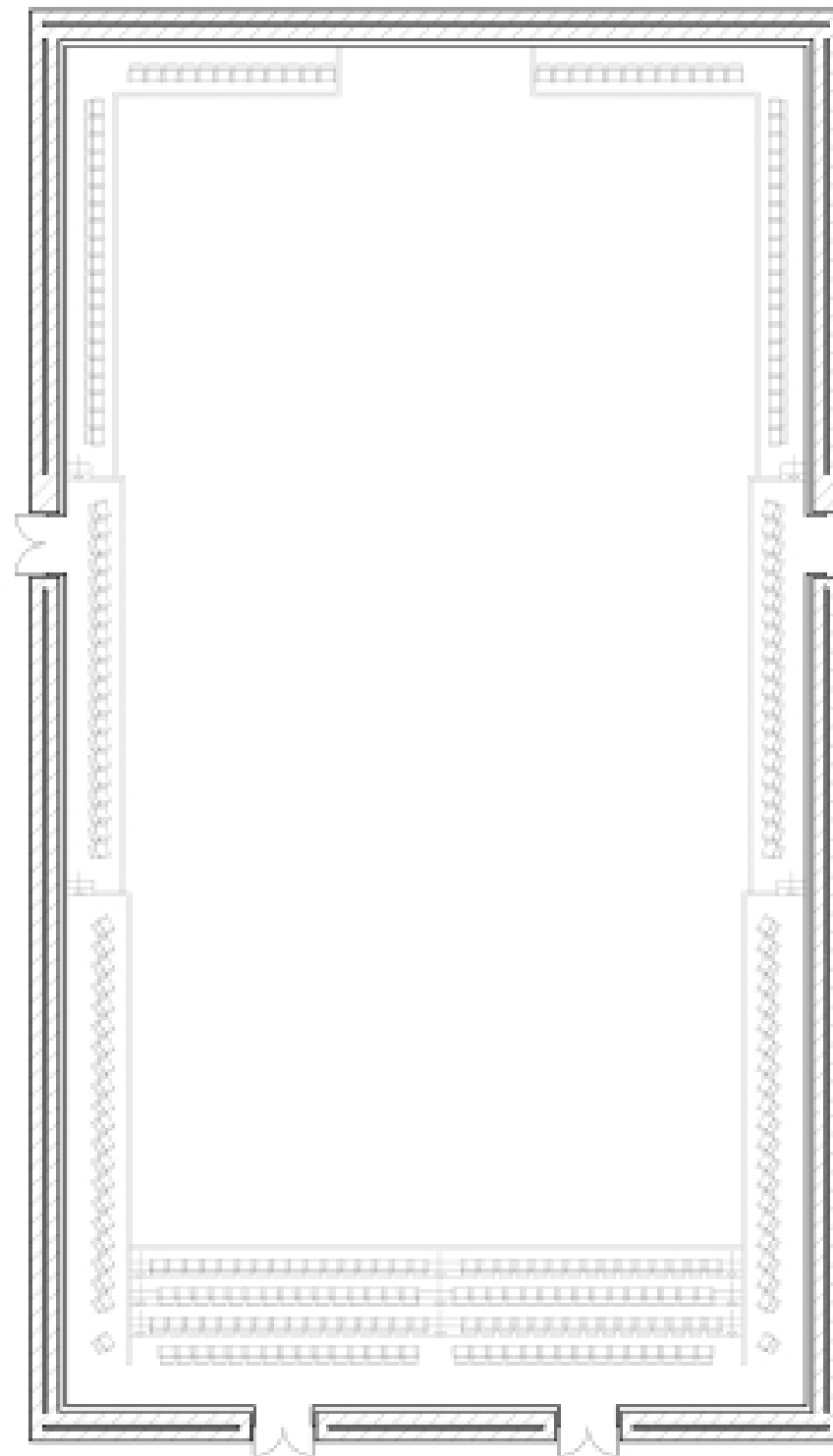
first floor concert hall 1:150



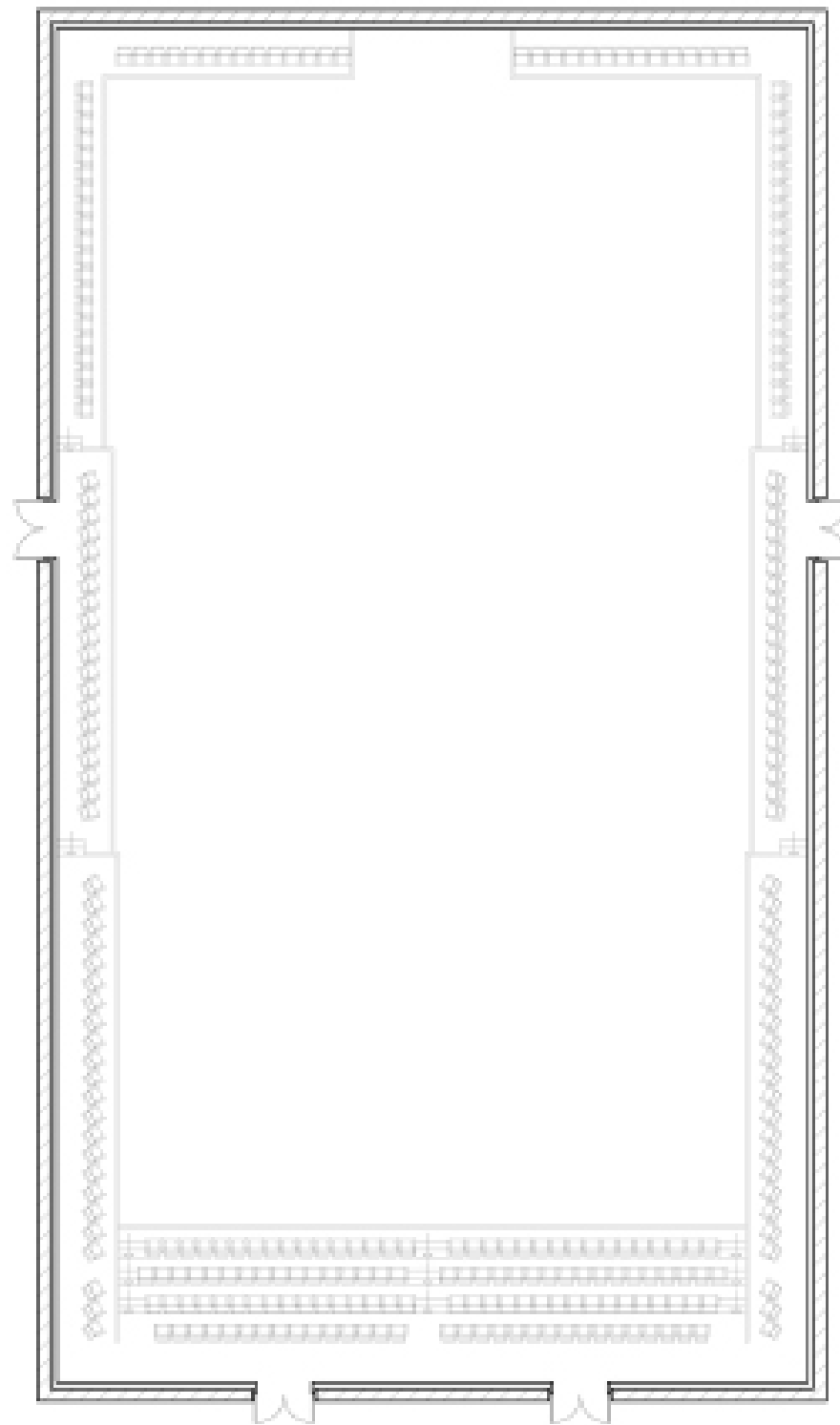
second floor concert hall 1:150



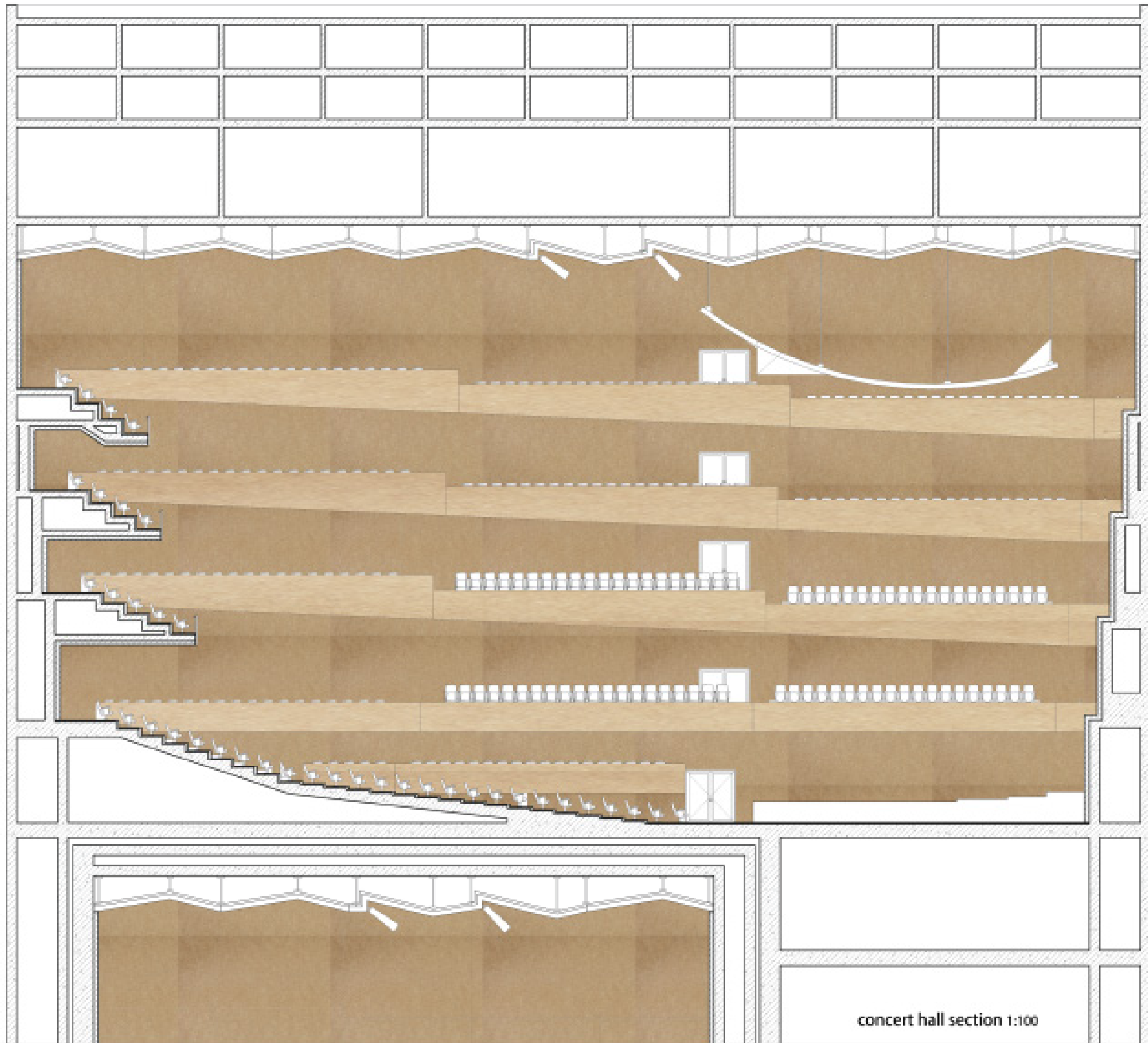
third floor concert hall 1:150



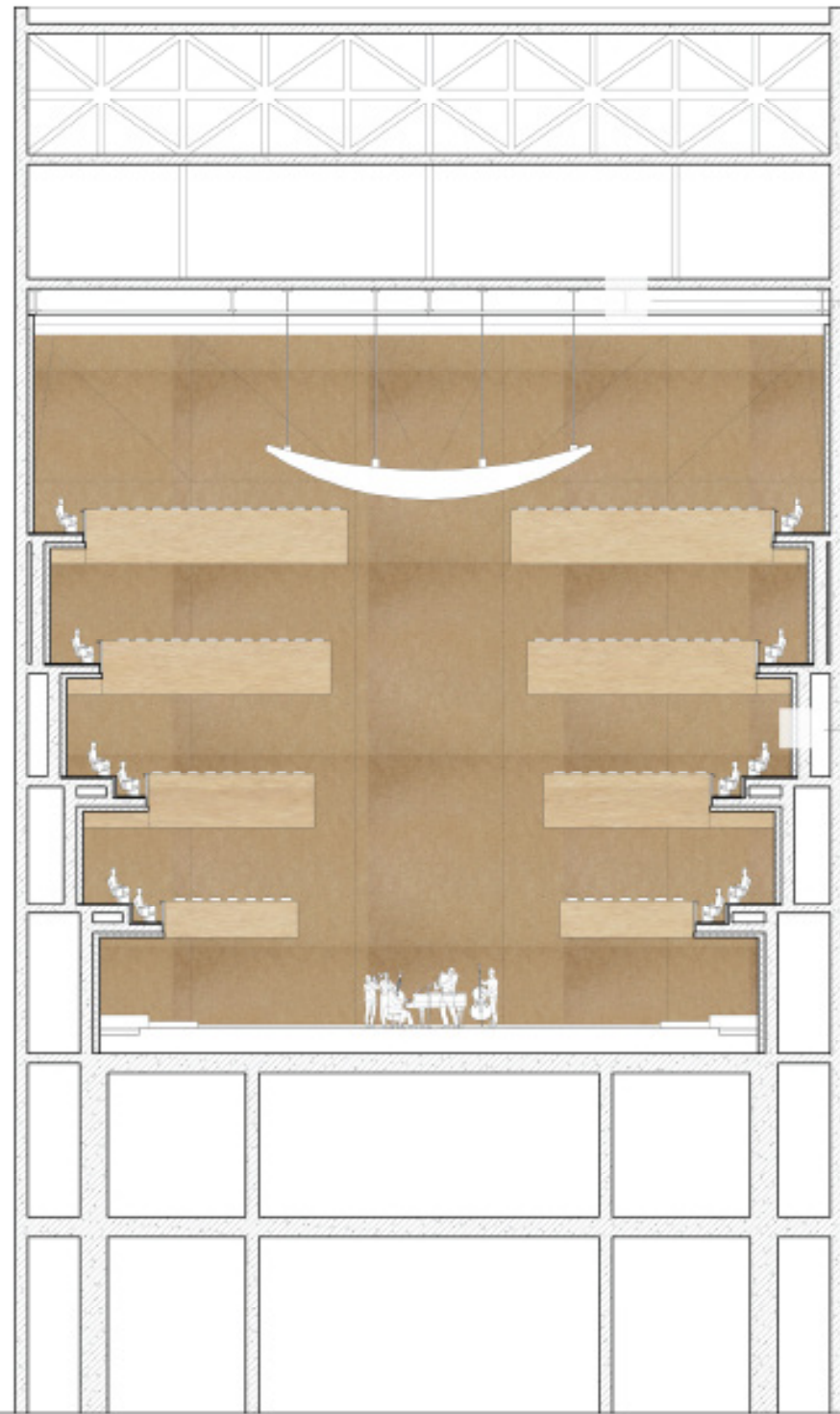
fourth floor concert hall 1:150



fifth floor concert hall 1:150



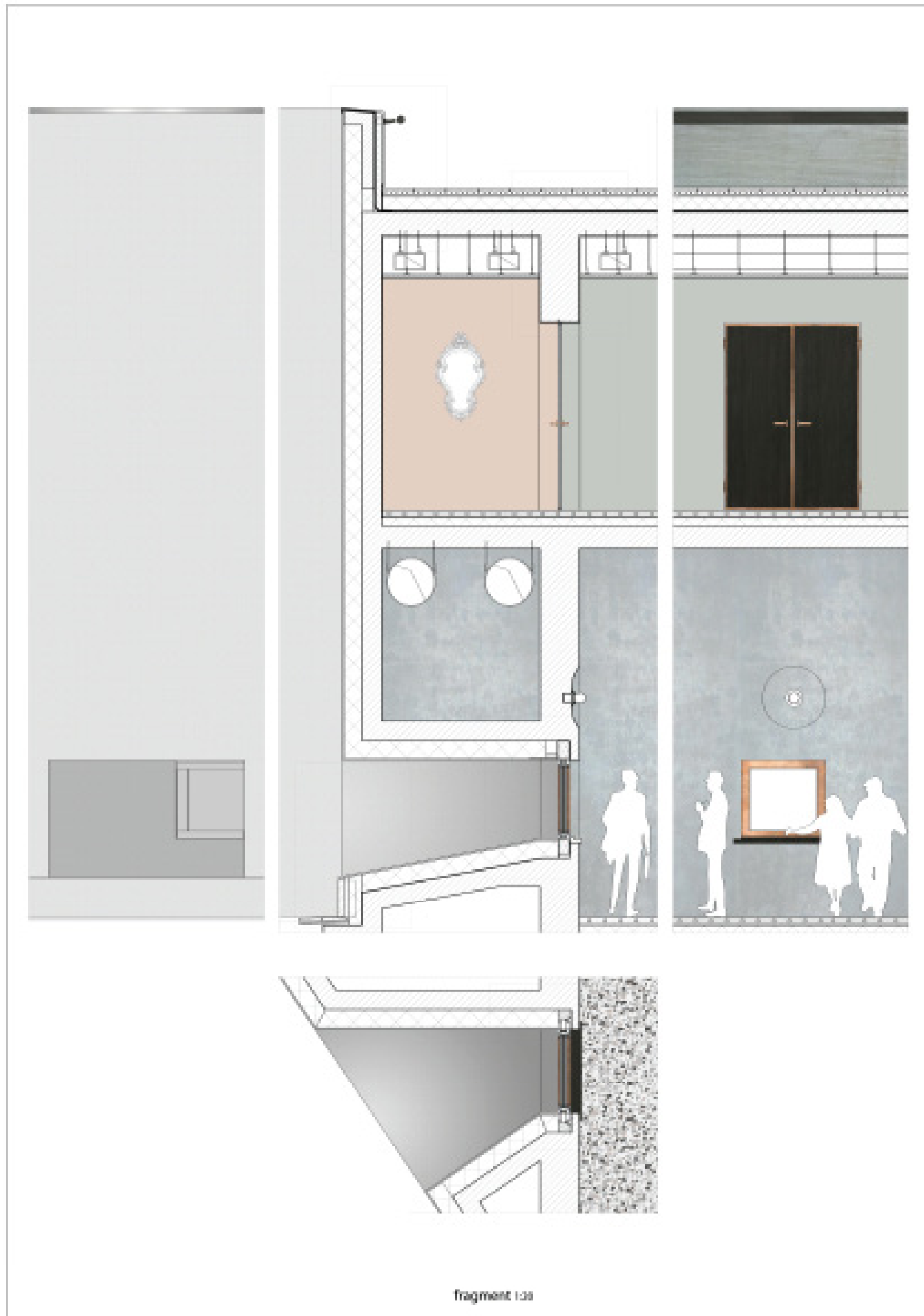
concert hall section 1:100



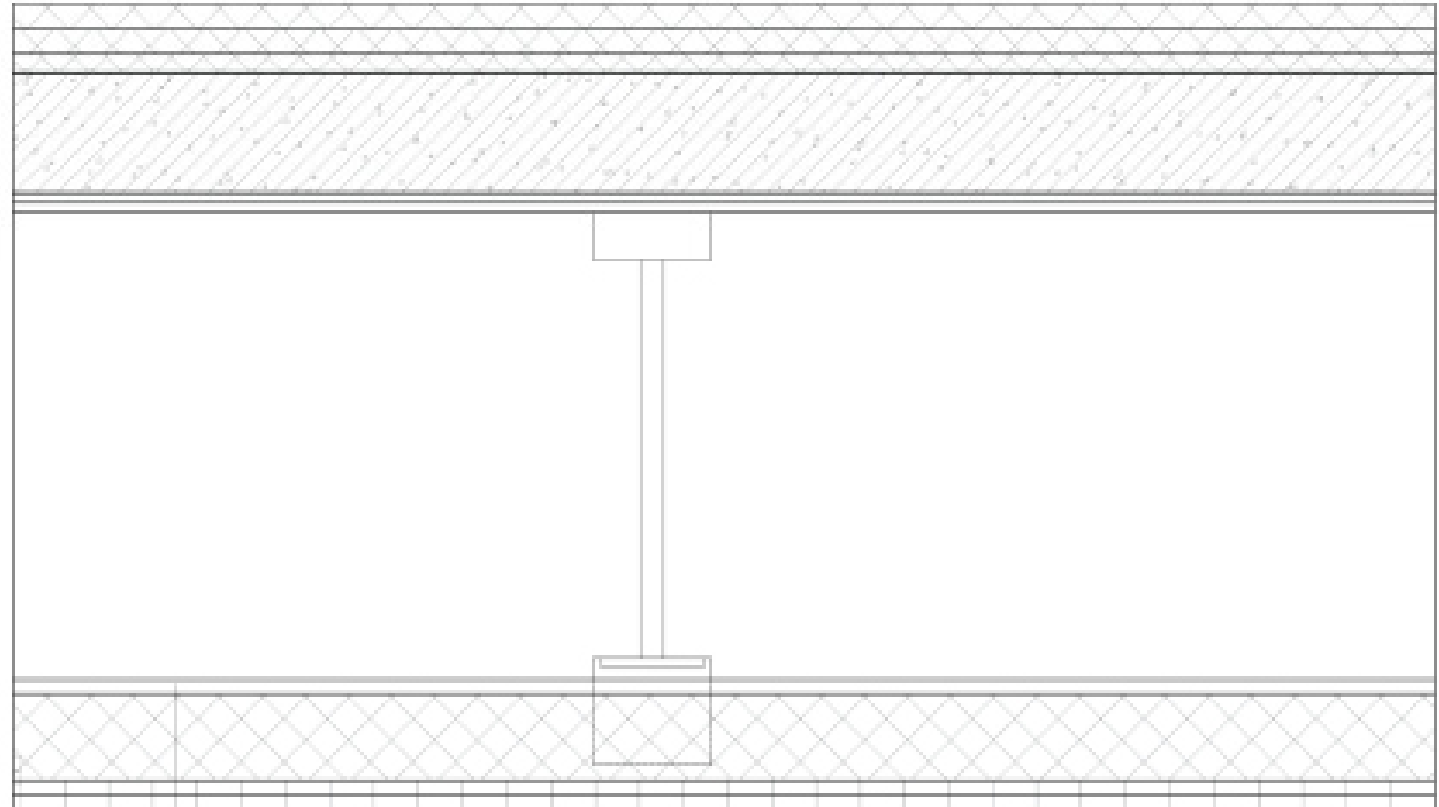
detail A

detail B

concert hall section 1:100

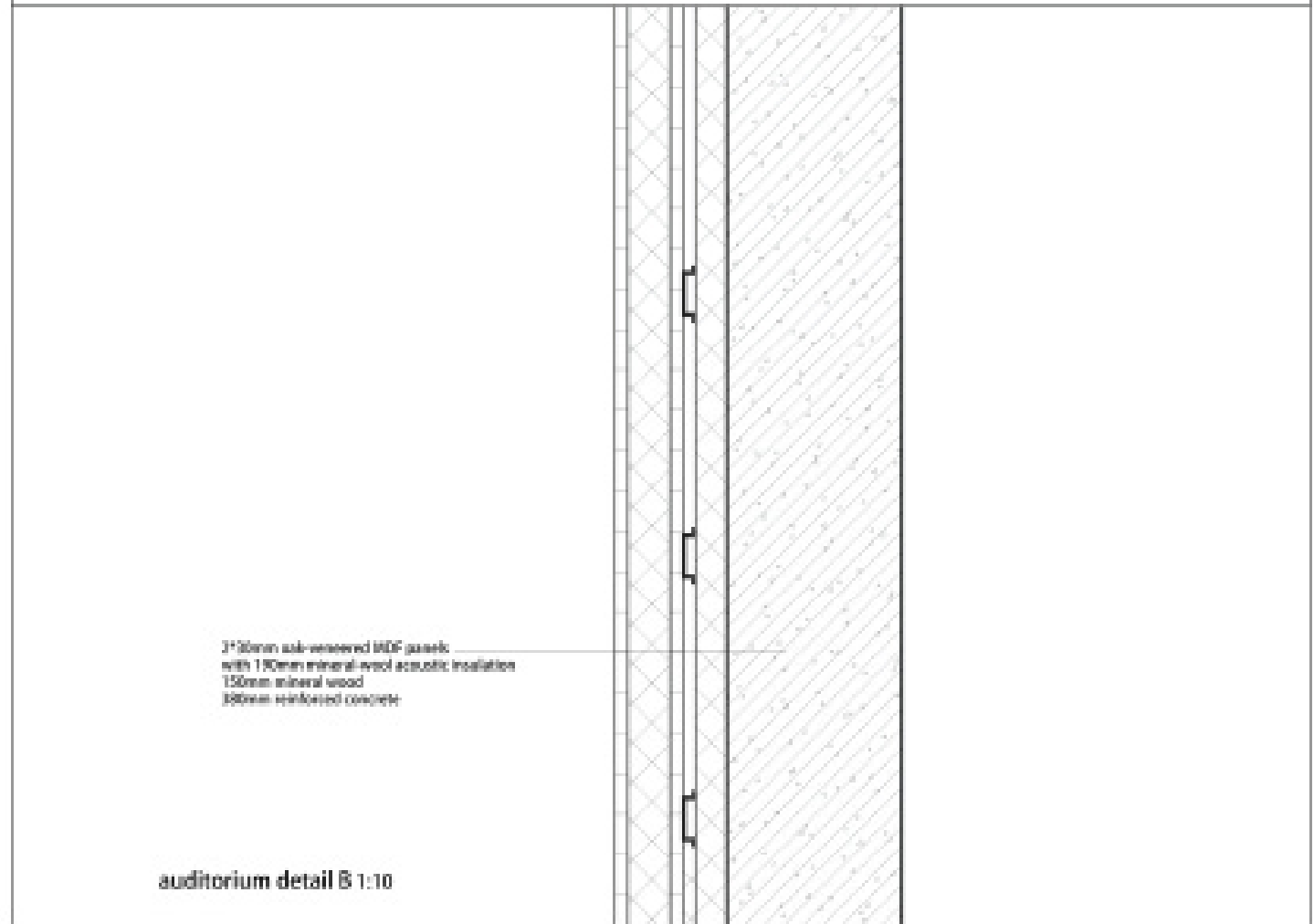


fragment 1:30



2*50mm gypsum plasterboard acoustic soffit with 200mm mineral wool layer

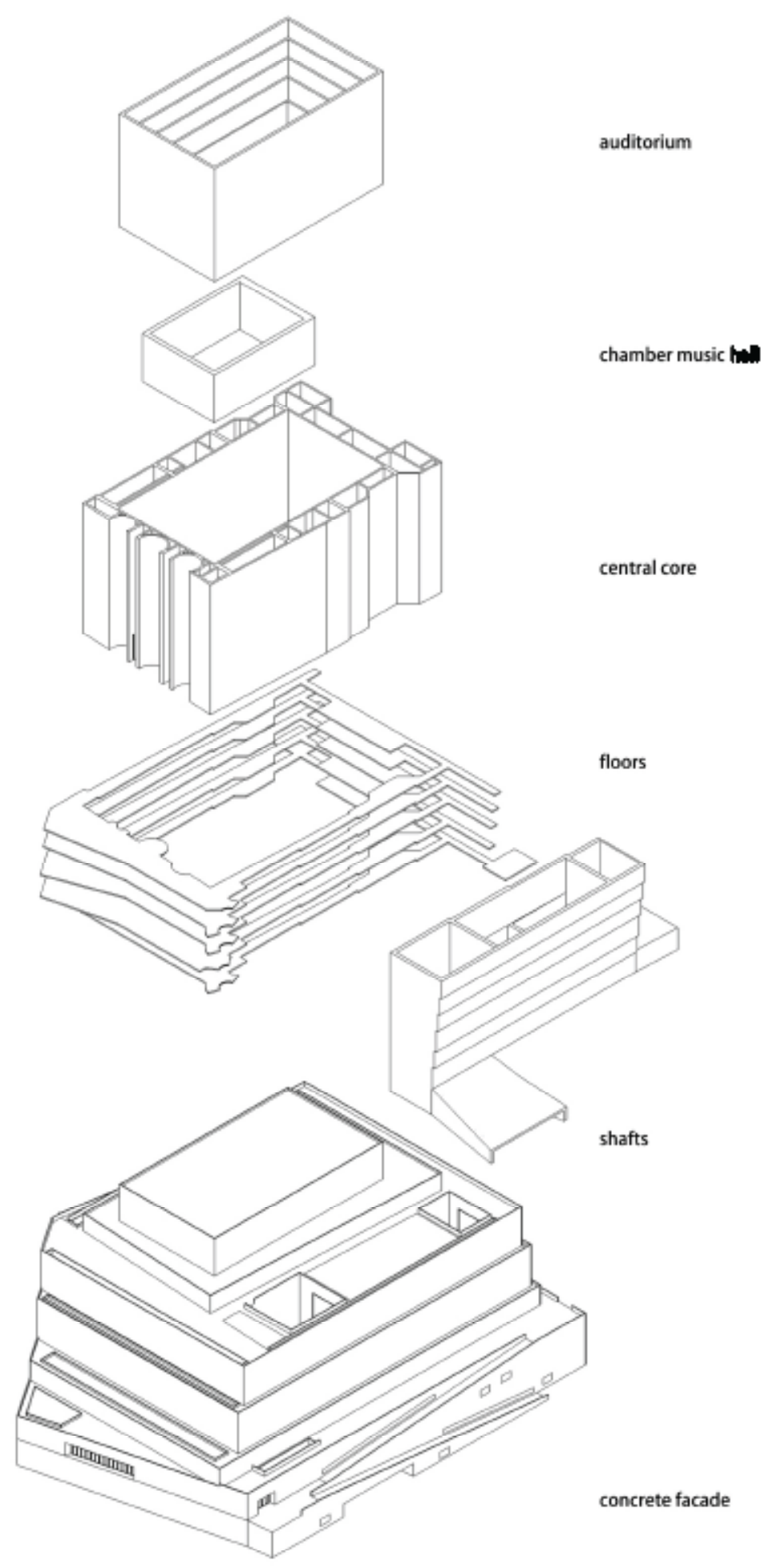
auditorium detail A 1:10



2*50mm oak-veneerced MDF panels
with 100mm mineral wool acoustic insulation
150mm mineral wool
180mm reinforced concrete

auditorium detail B 1:10

building technology



auditorium

chamber music hall

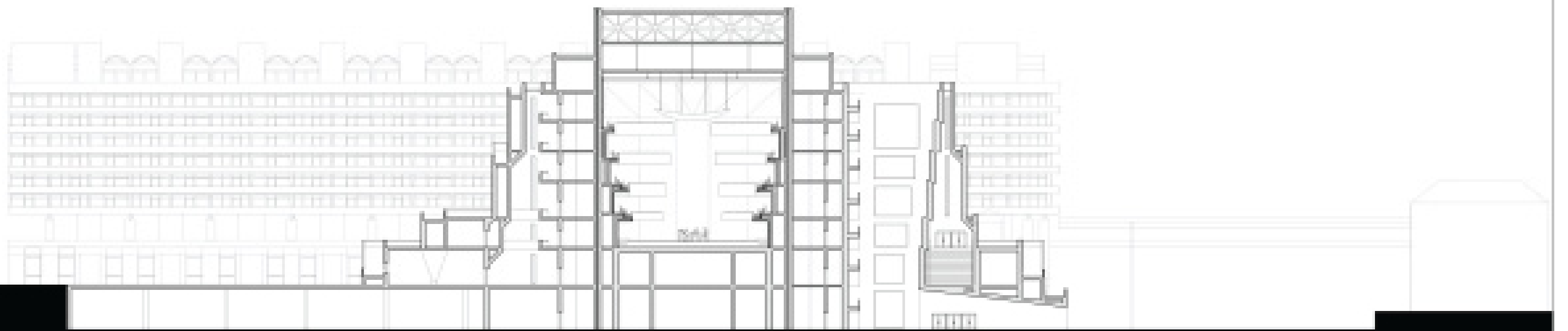
central core

floors

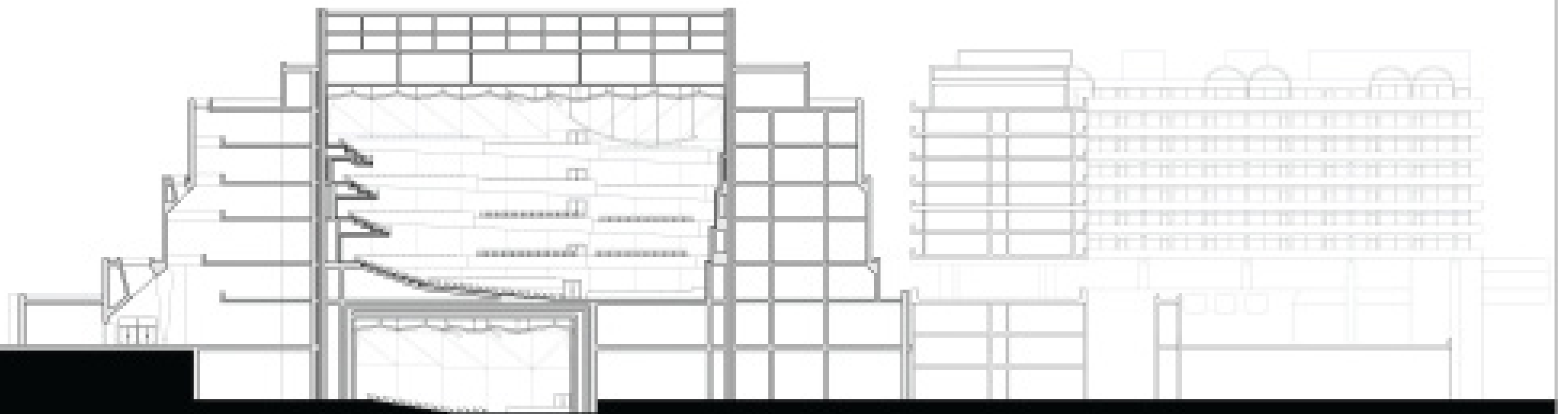
shafts

concrete facade

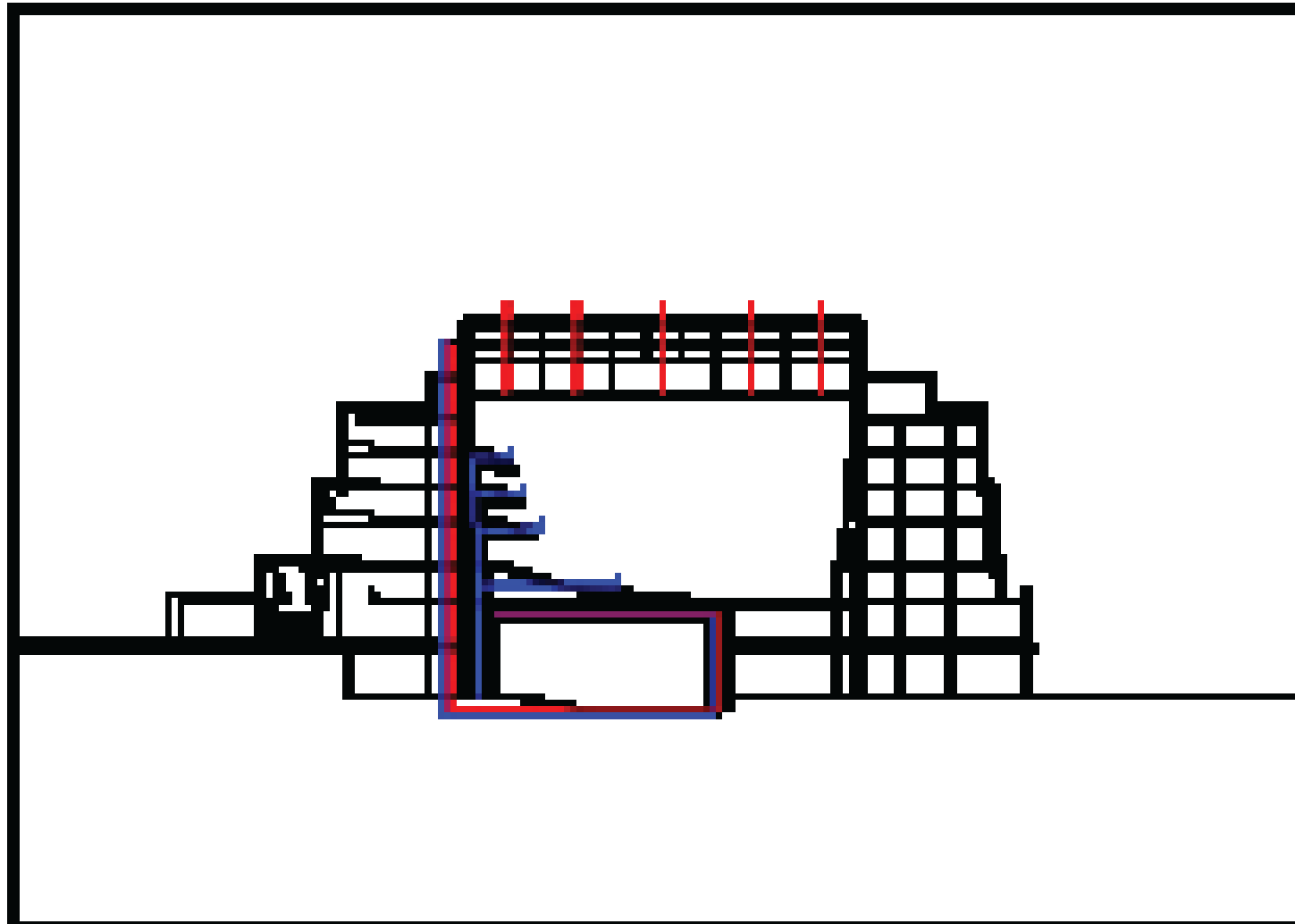
CONSTRUCTION



A-A Section 1258

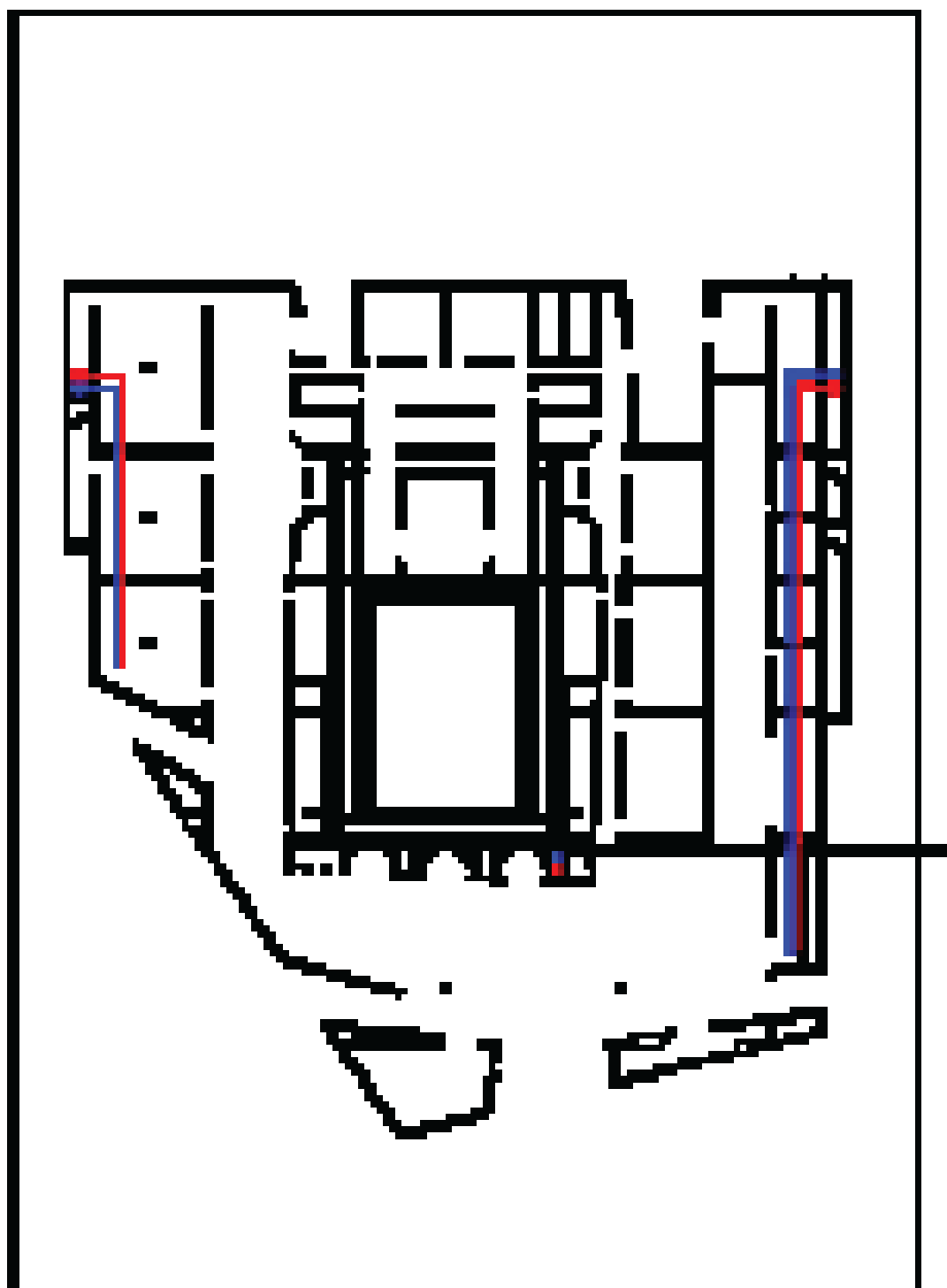


B-B Section 1.219

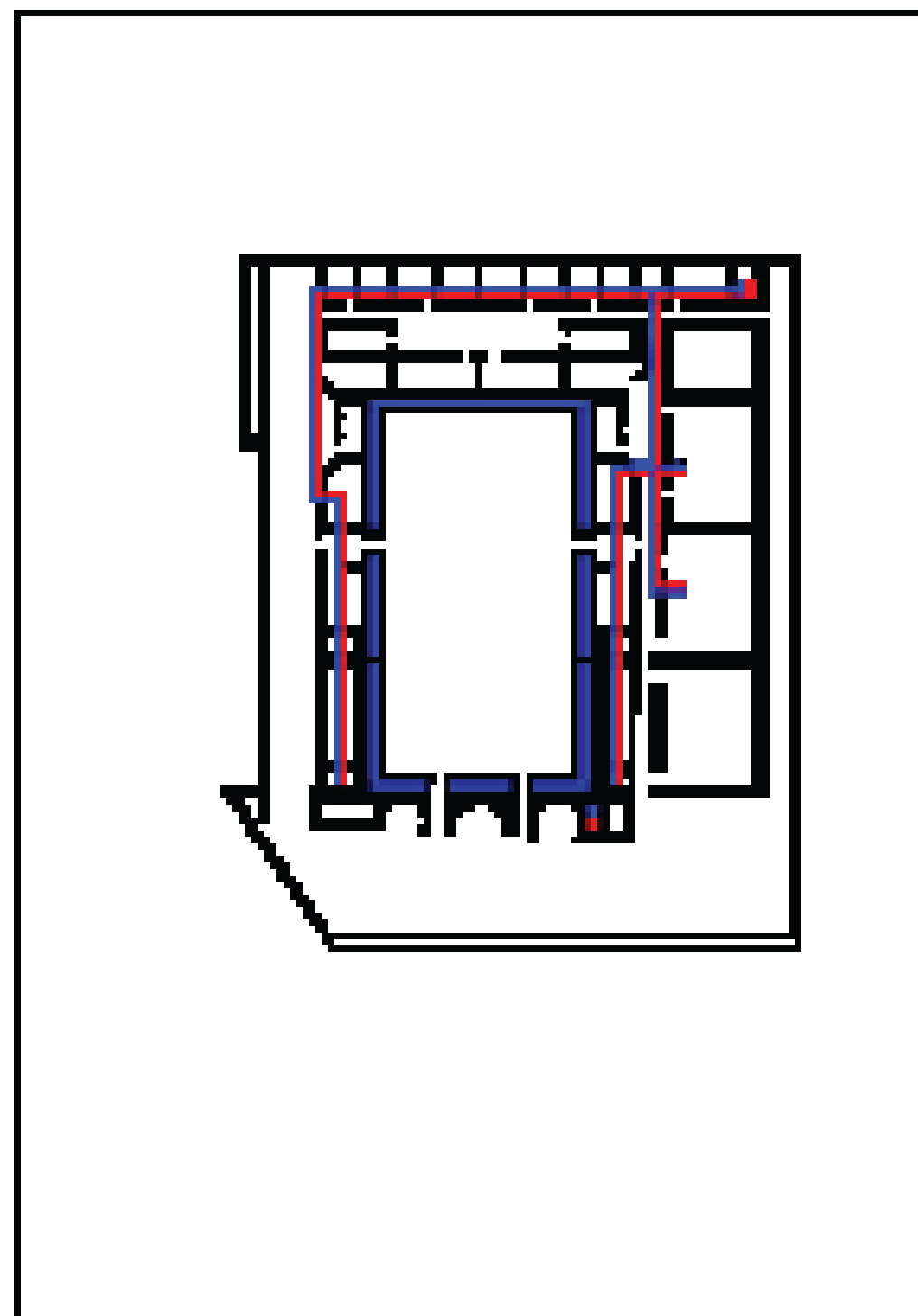


ventilation under chairs,
slowly extract air in ceiling,
ventilation of classroom hall by shaft

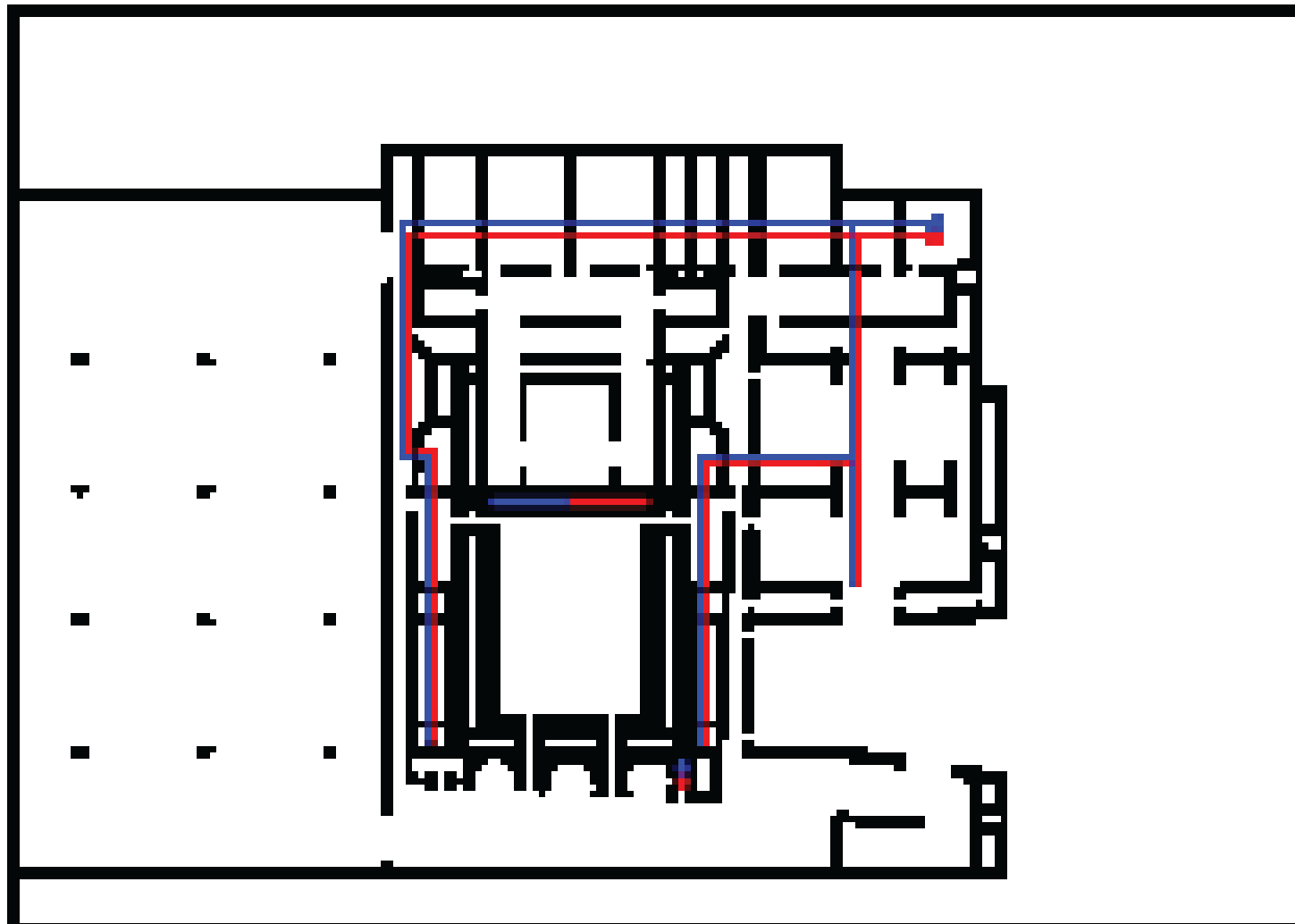
■ exhaust air
■ supply air



ventilation of rooms in sides by shafts

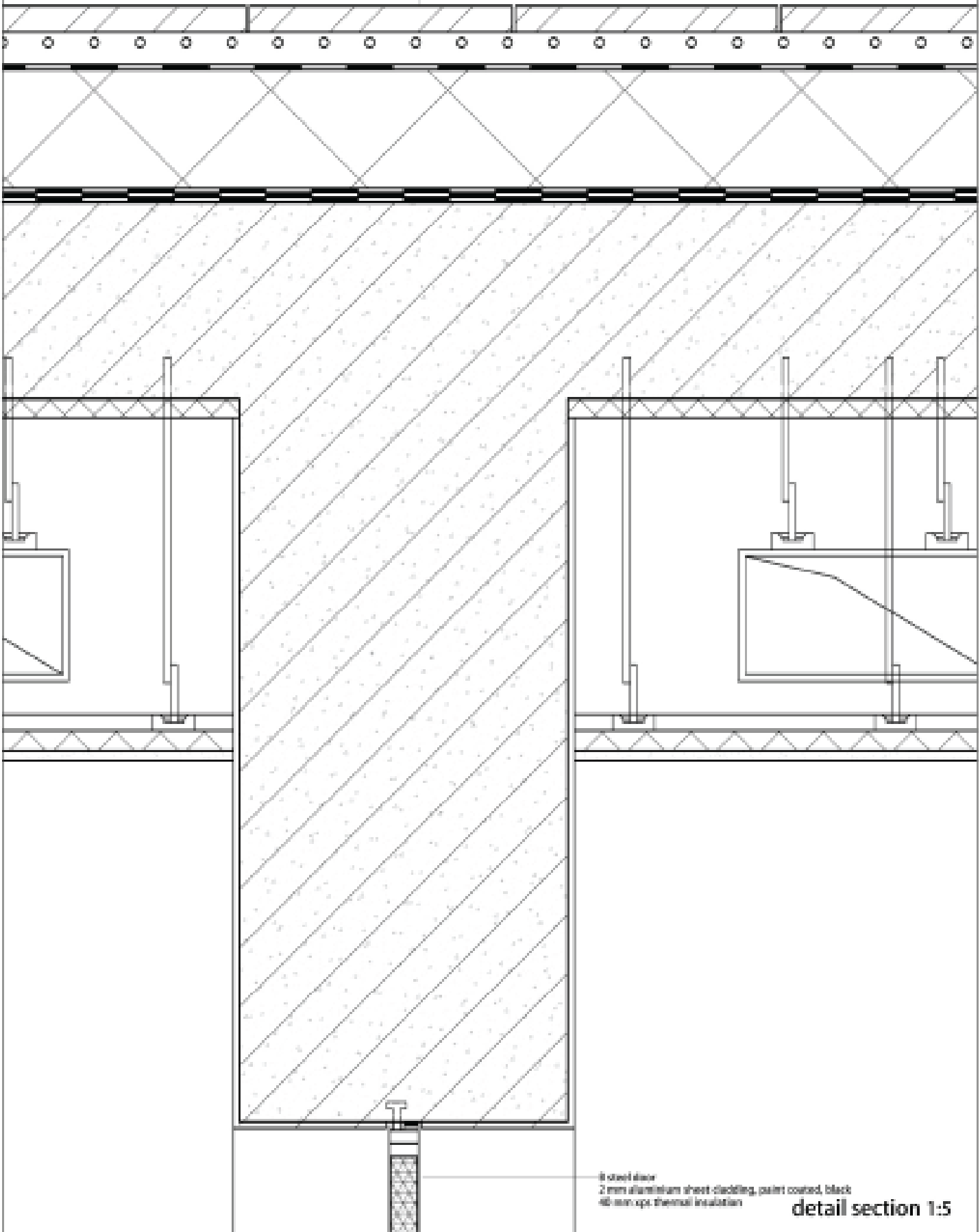


ventilation of rooms in central by mechanic room and shaft



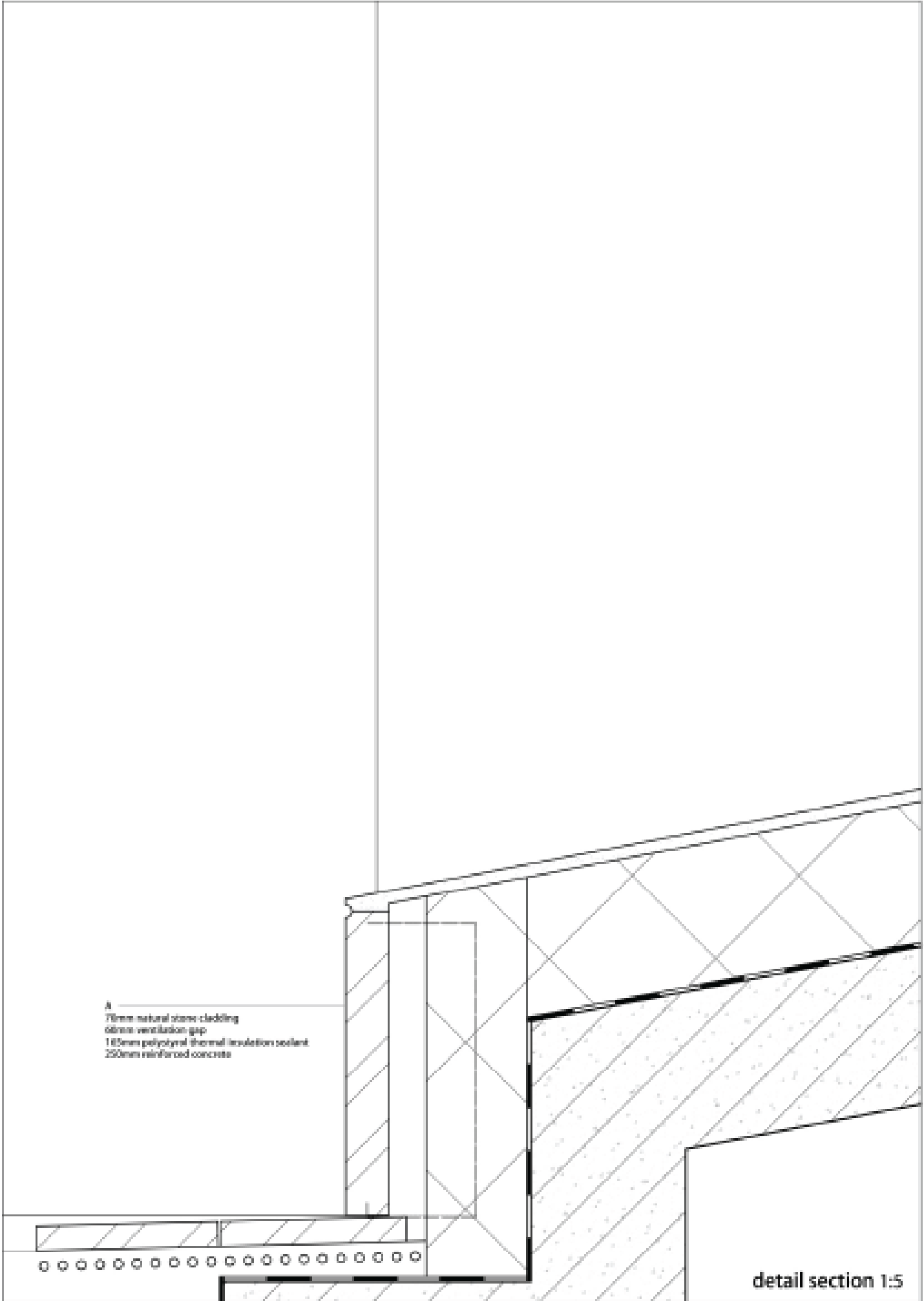
ventilation of concert hall by shaft
ventilation of chamber hall by shaft

40mm natural stone paving
 50mm gravel, protective fleece
 180mm polystyrol thermal insulation
 2-ply sealant membrane
 300mm reinforced concrete ceiling slab to falls
 30mm polyurethane thermal insulation lined with aluminium flexible suspension brackets
 50mm mineral wool sound insulation
 15mm expanded glass granulate acoustic soffit



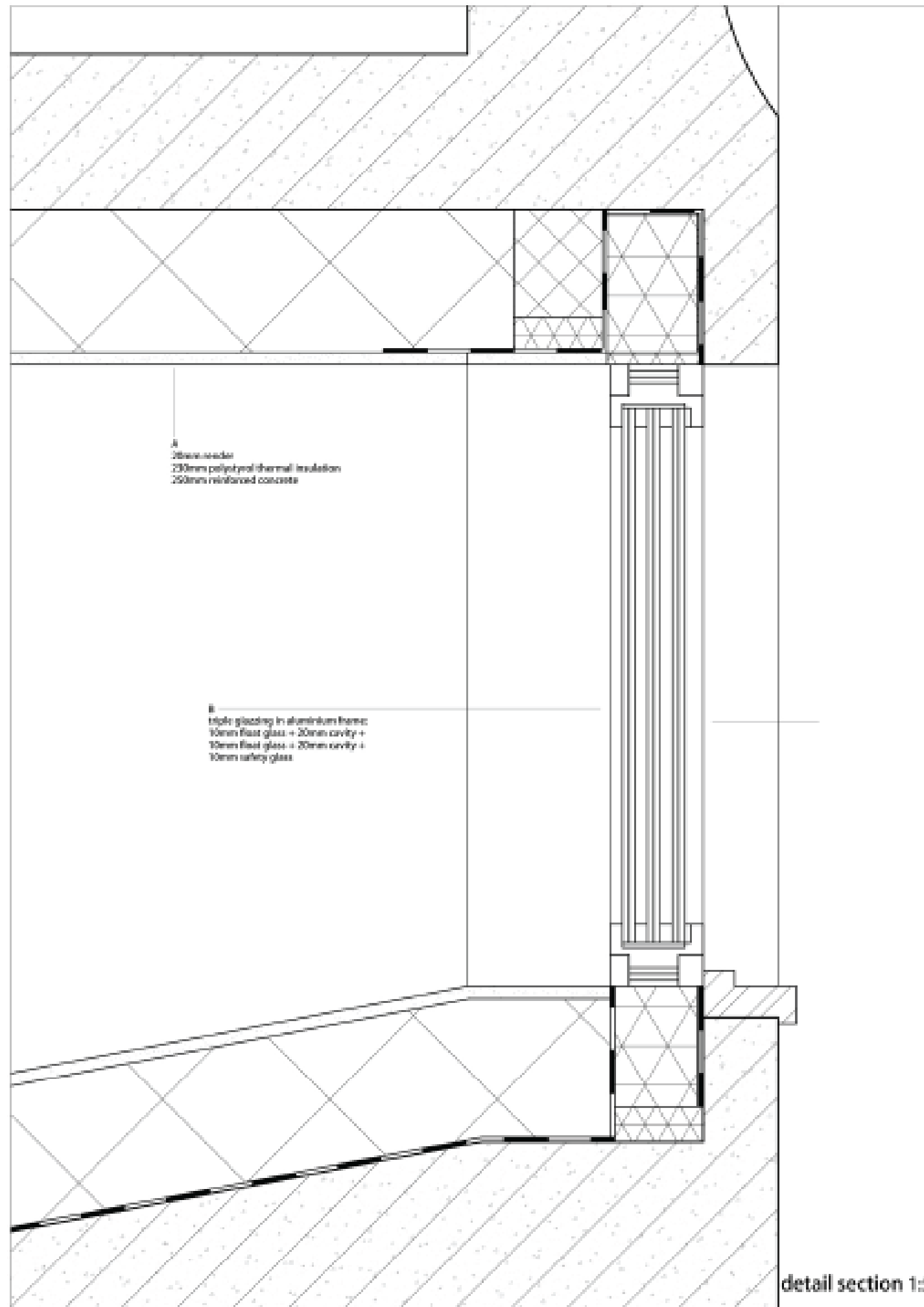
8 steel floor
 2 mm aluminium sheet cladding, paint coated, black
 40 mm eps thermal insulation

detail section 1:5

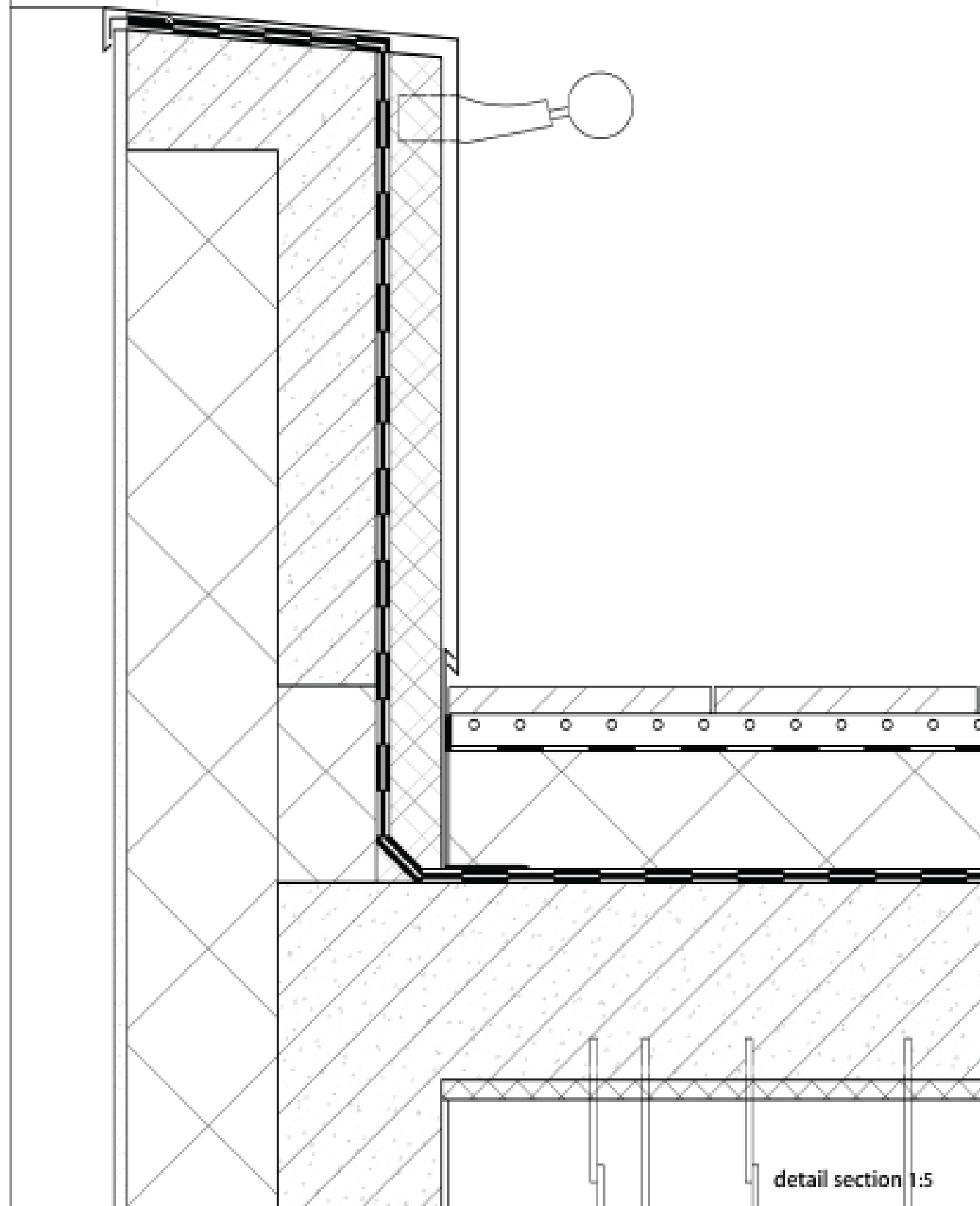


A
75mm natural stone cladding
60mm ventilation gap
185mm polyisocyanurate thermal insulation board
250mm reinforced concrete

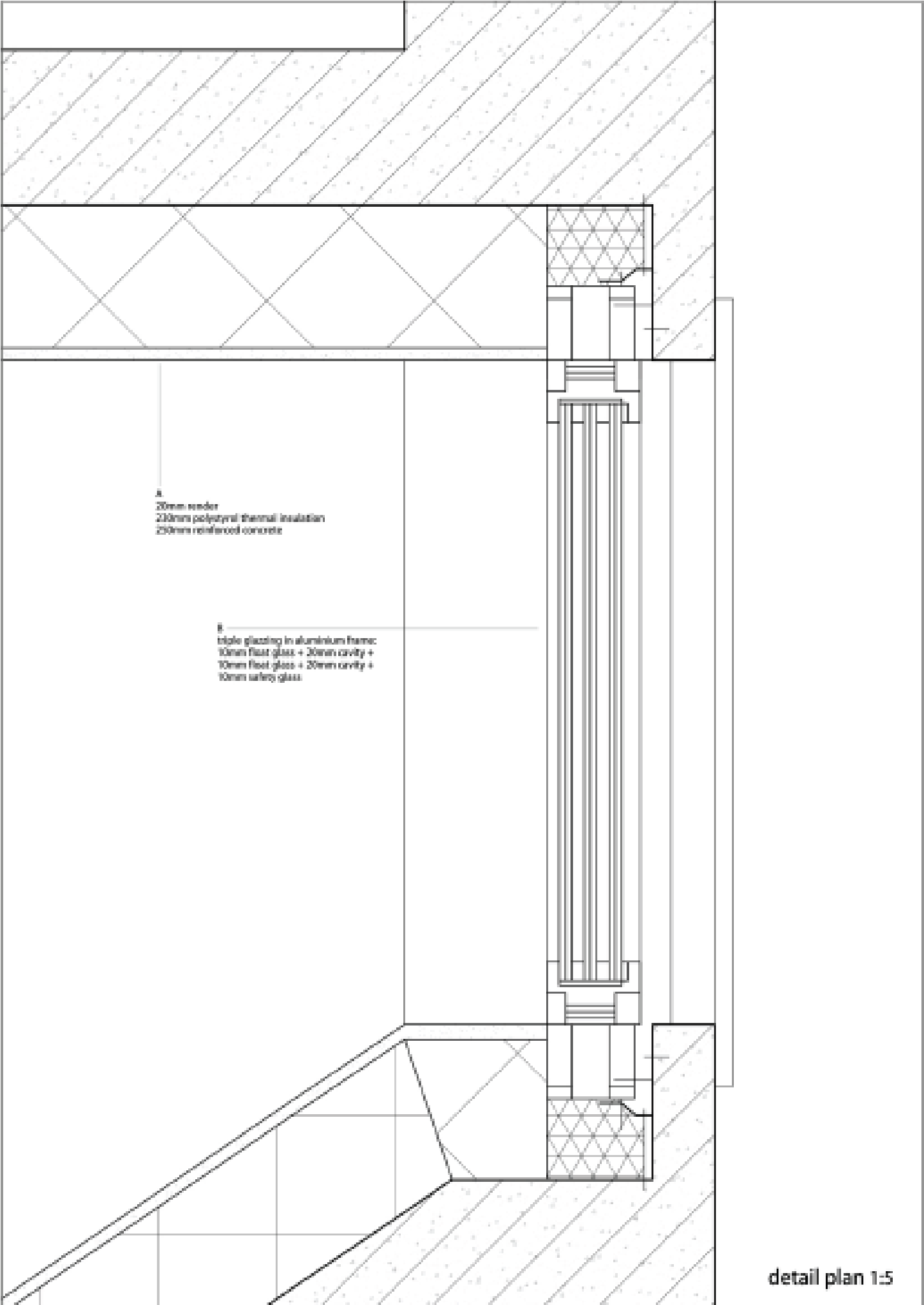
detail section 1:5



A
aluminum parapet coping 2-ply resilient membrane protective layer precast
reinforced concrete element



detail section 1:5



Thanks a lot !