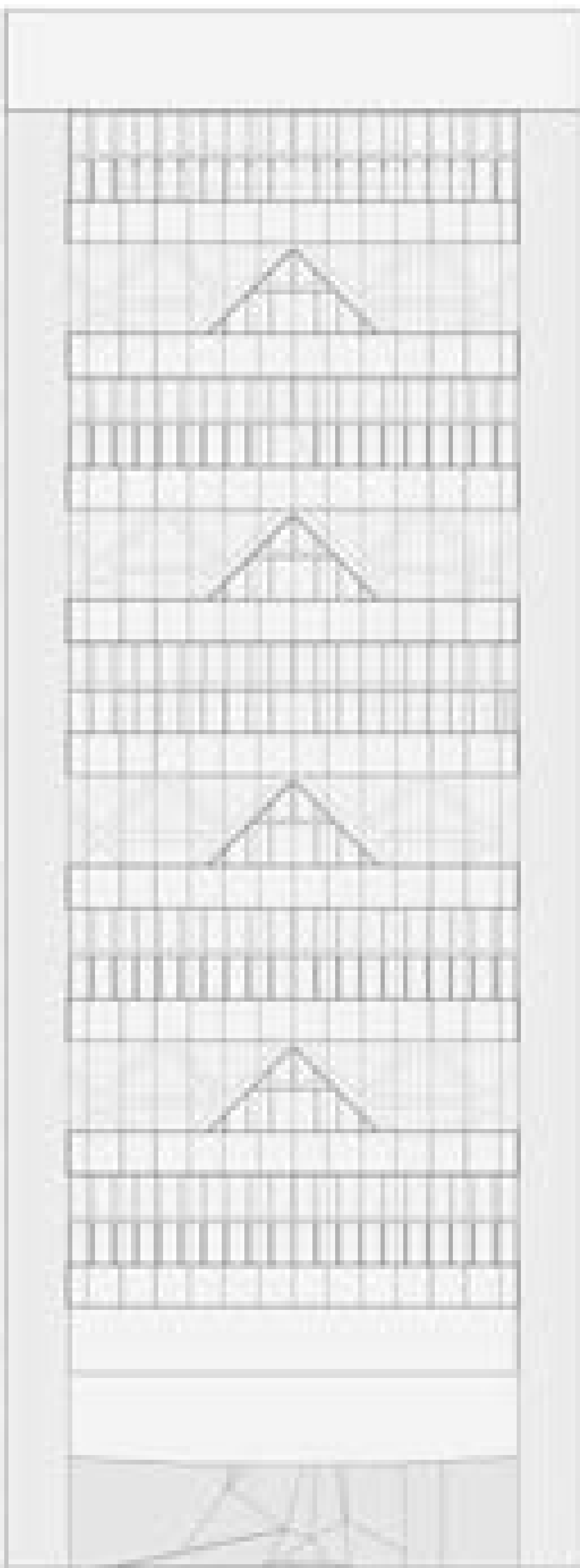


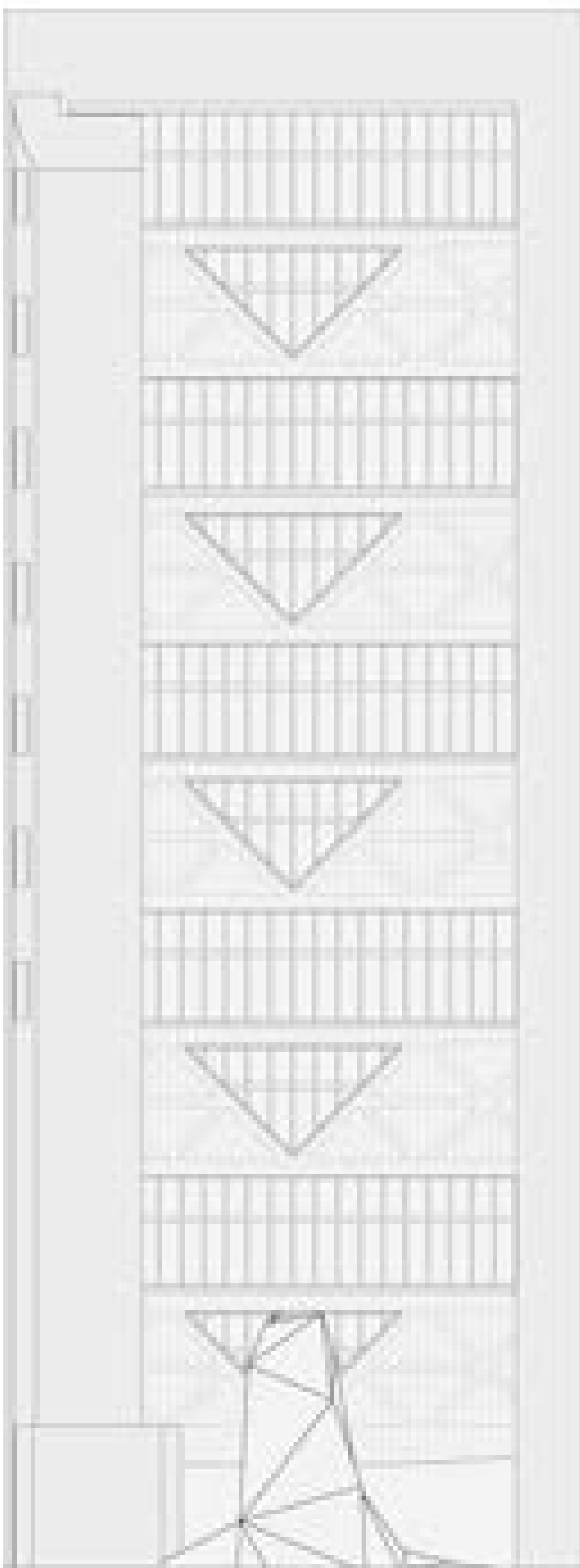


Facades 1:200

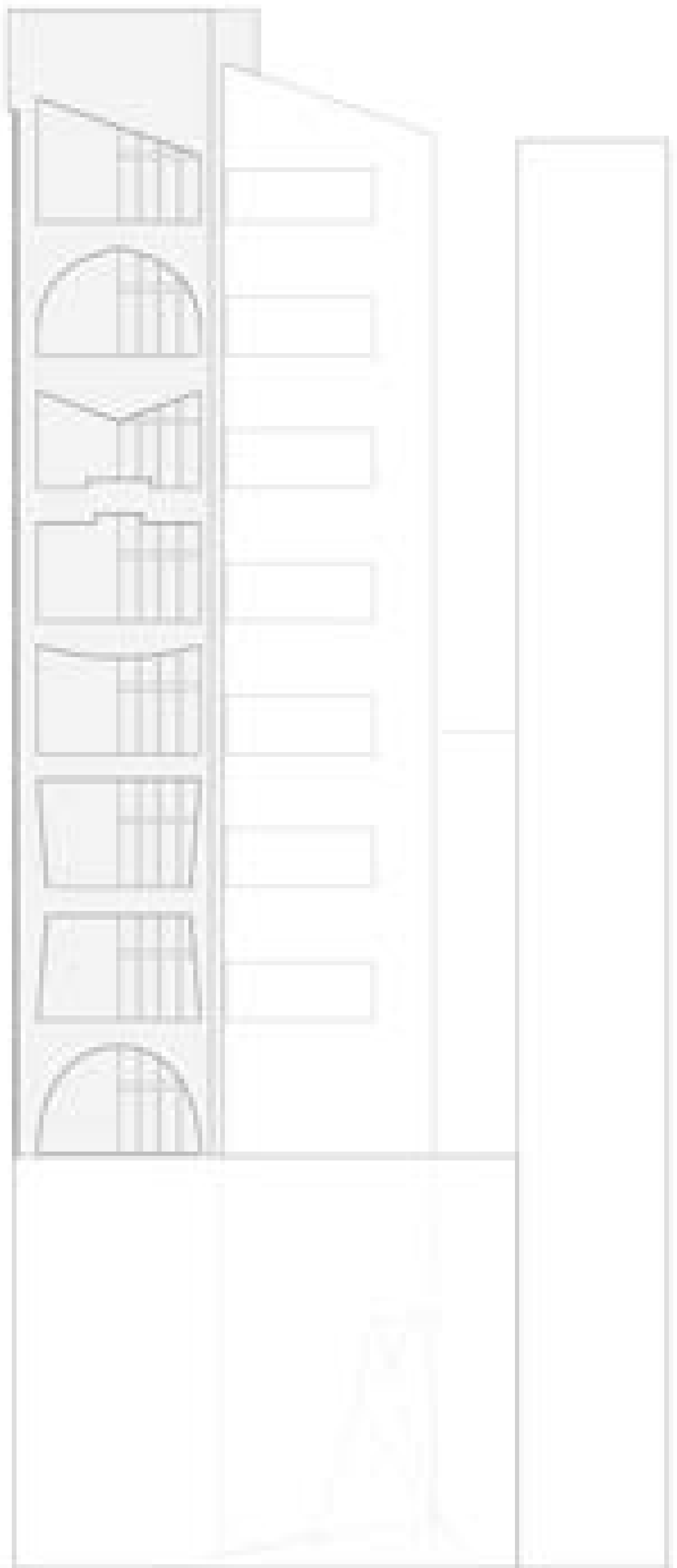
Front Facade

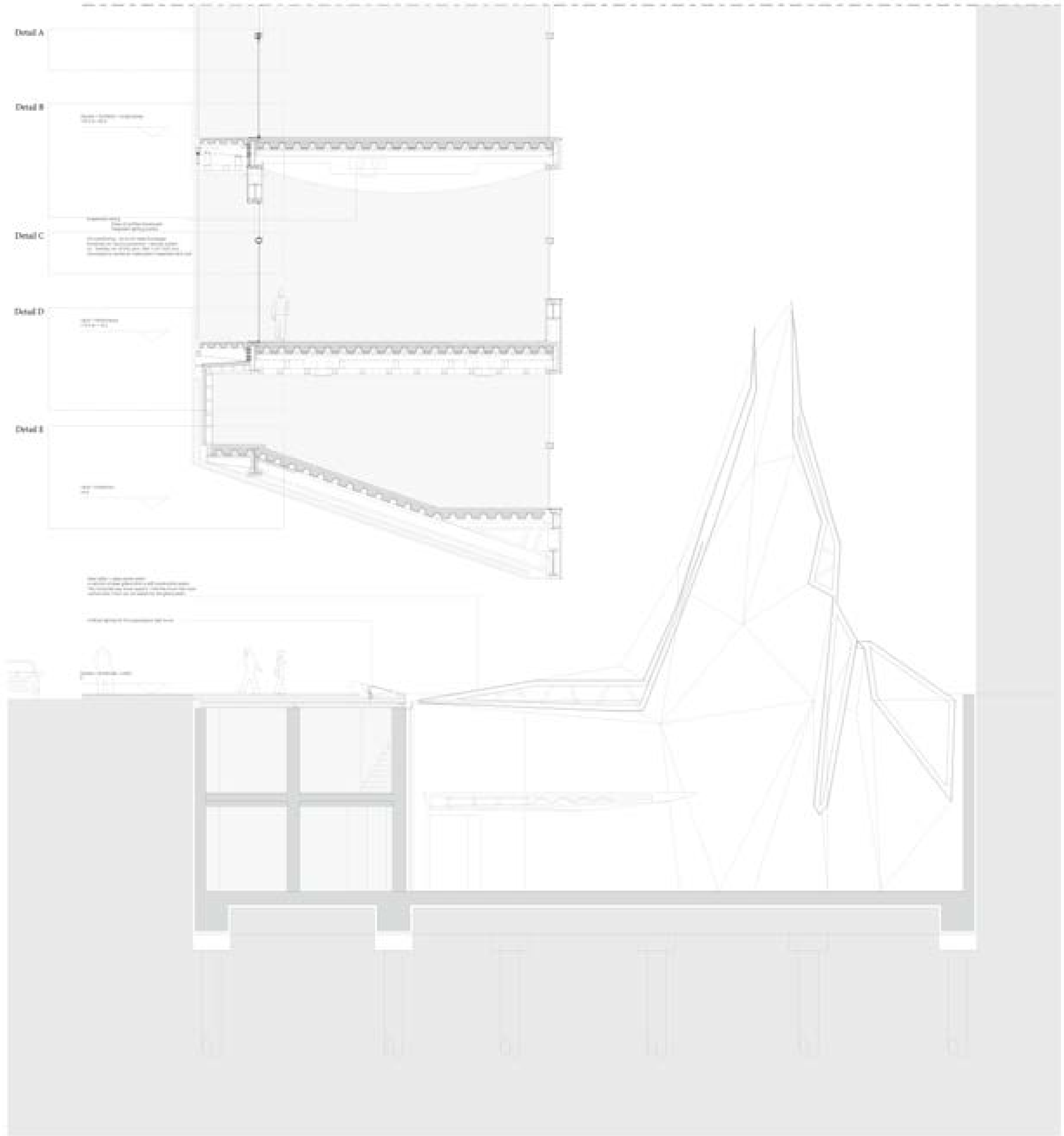


Back Facade



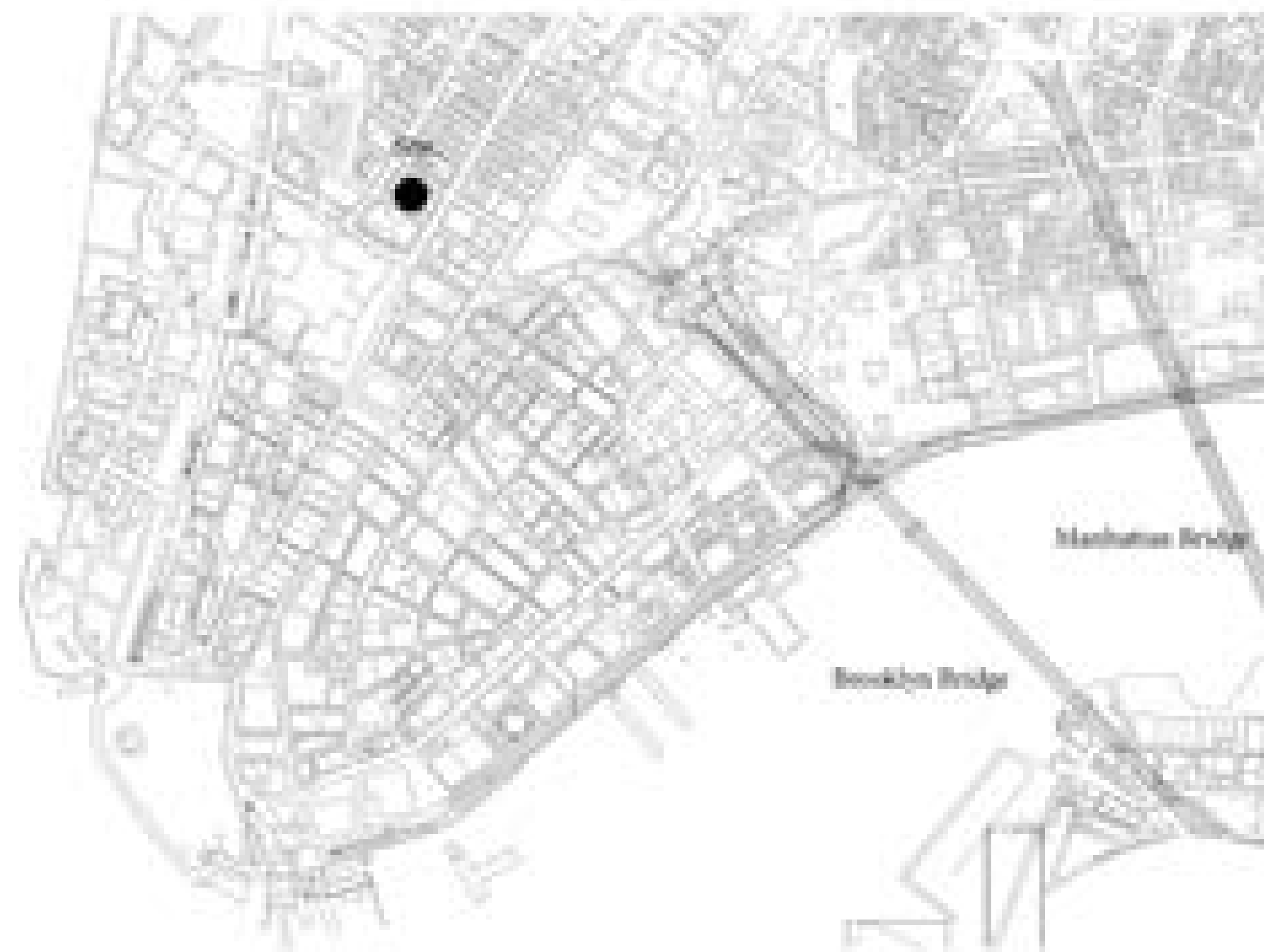
Side Facade





Site

Site in Manhattan context



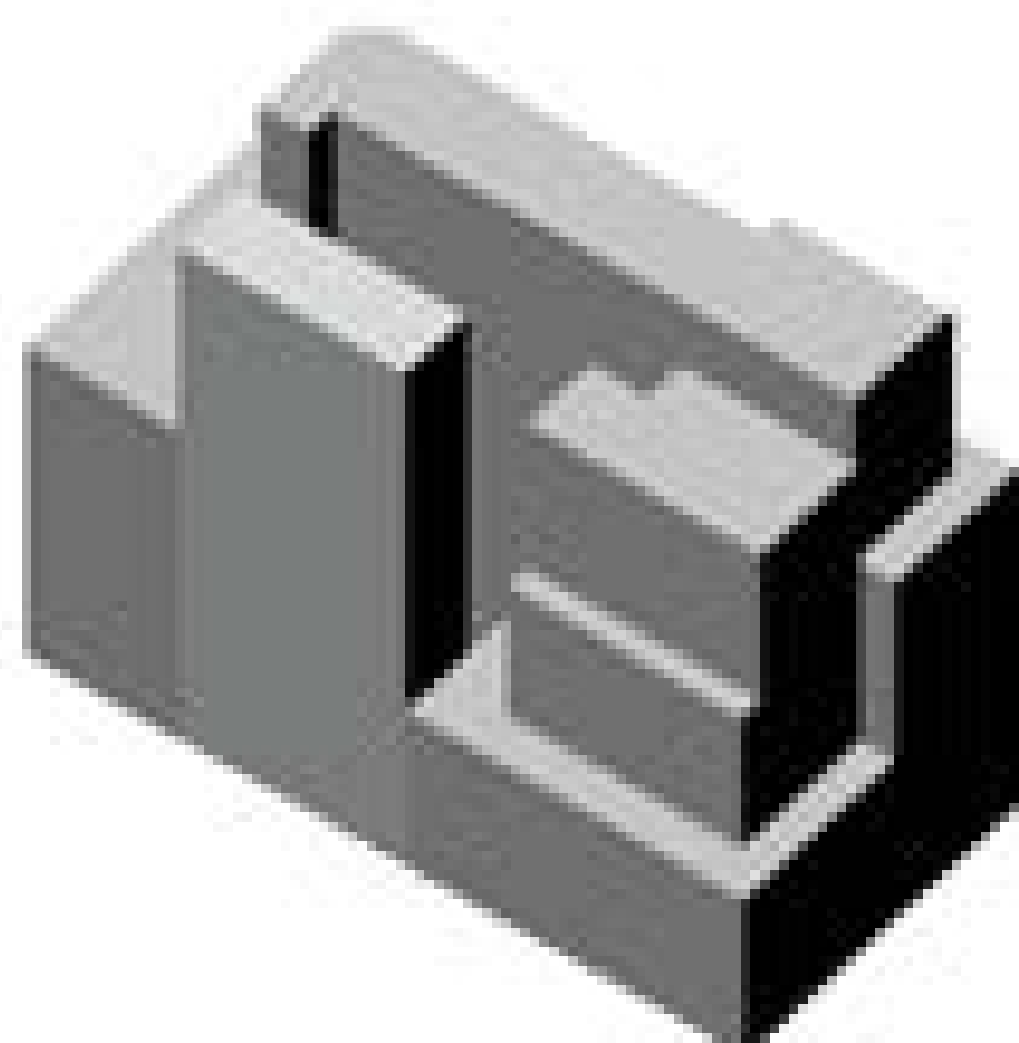
Site 1:1000 / Orientation



Building regulations and building volume

According to the regulations the following is allowed:

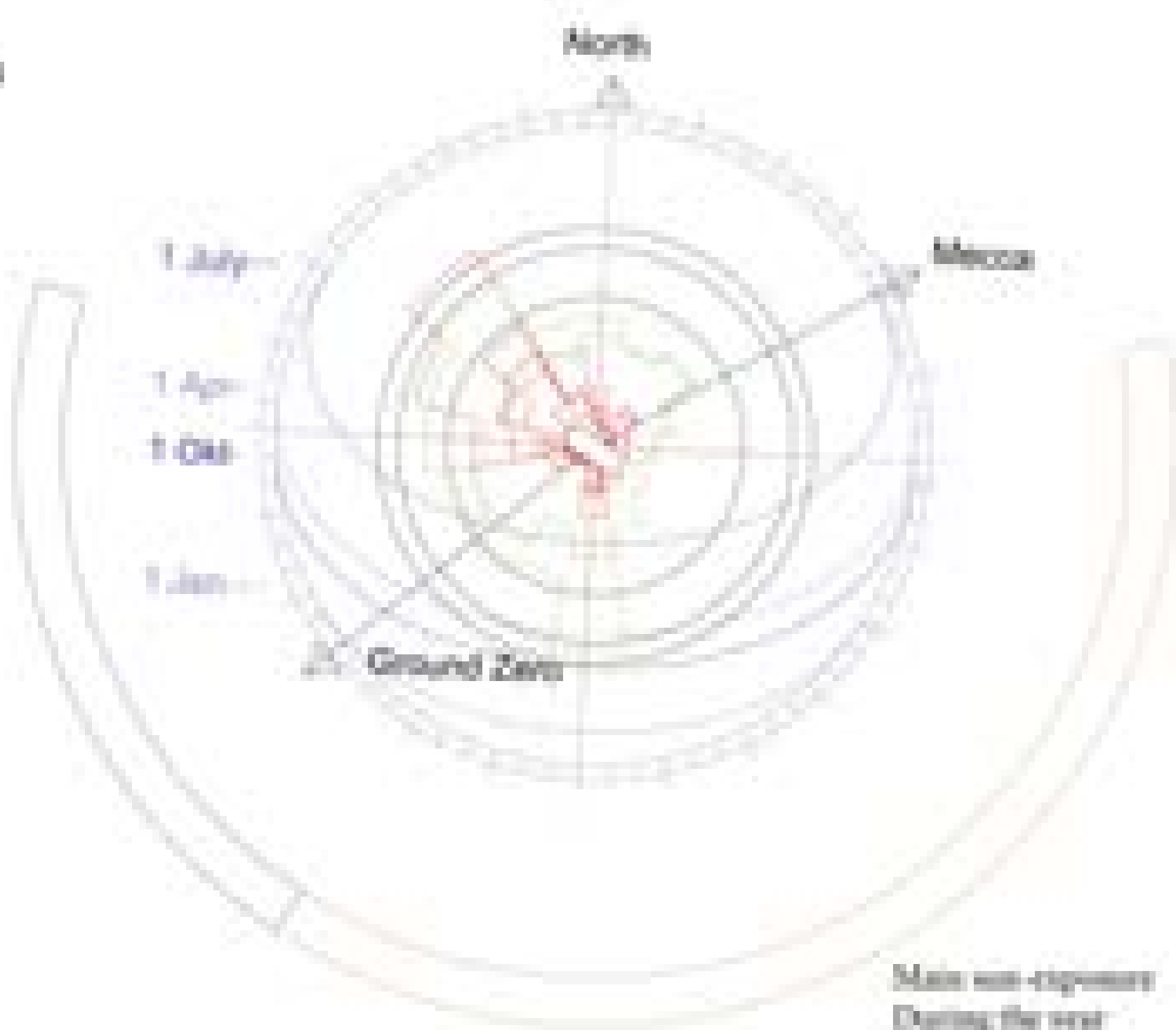
- > Total = 7000 m²
- > FSI = 10
- > Footprint = 100 m²
- > Building height = 60 m
- > 10% plaza bonus for public groundfloor



Site 1:10000 / Relation to ground zero and public transit

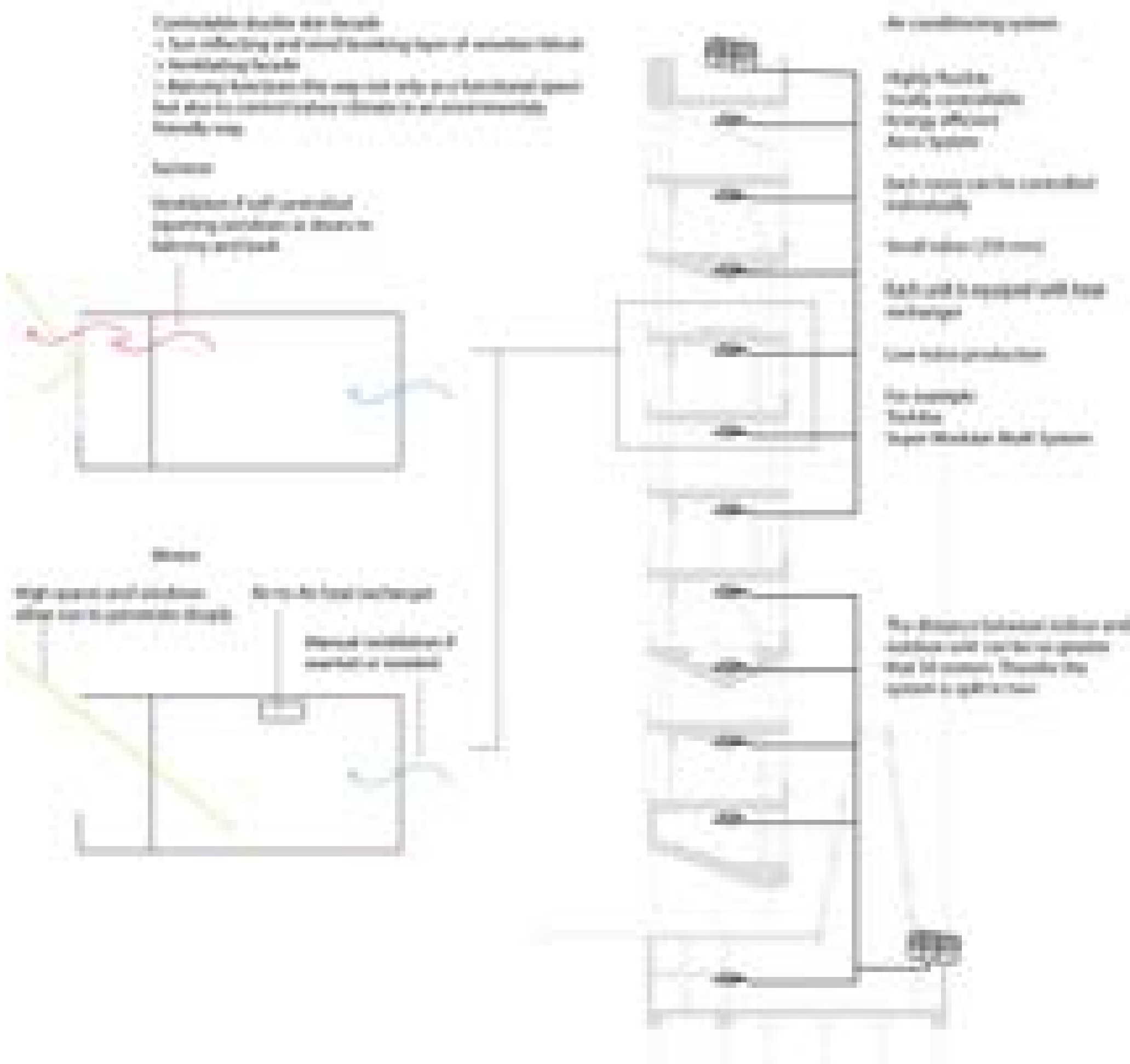


Main site data

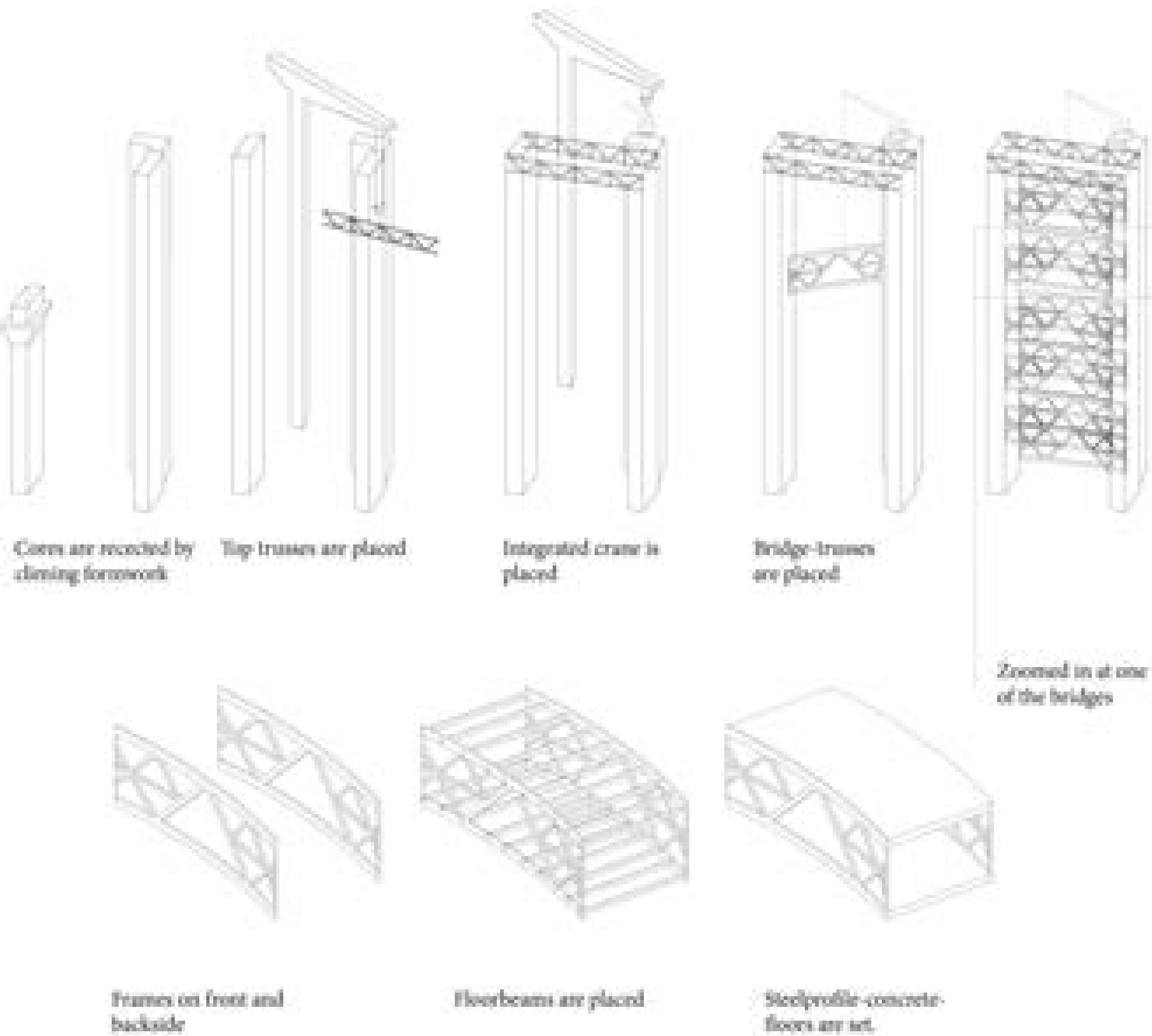


This sun volume provides air and light to penetrate the building itself and the neighbouring structures. At the same time it creates visibility and views outside of the structure itself.

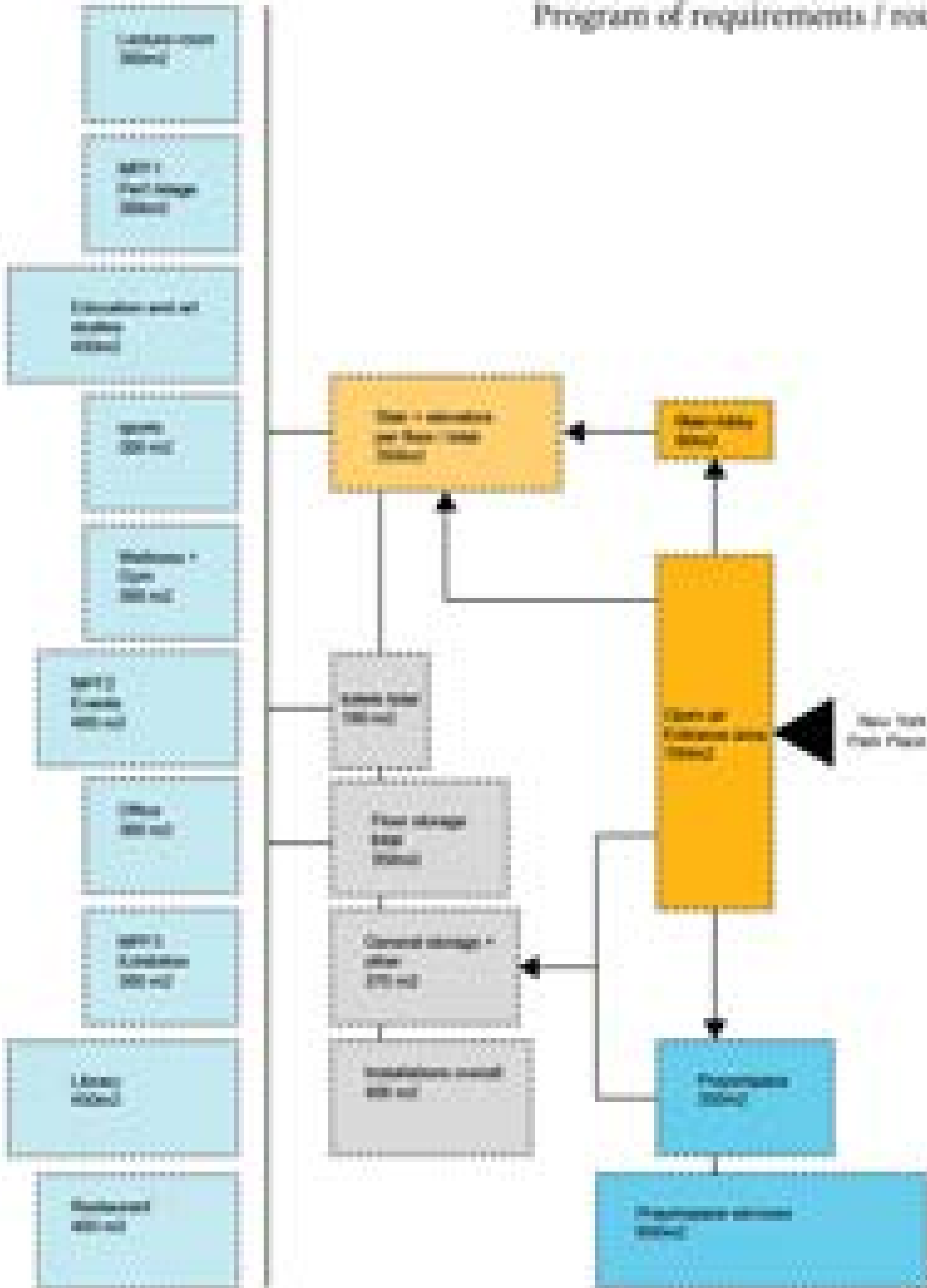
Building physics



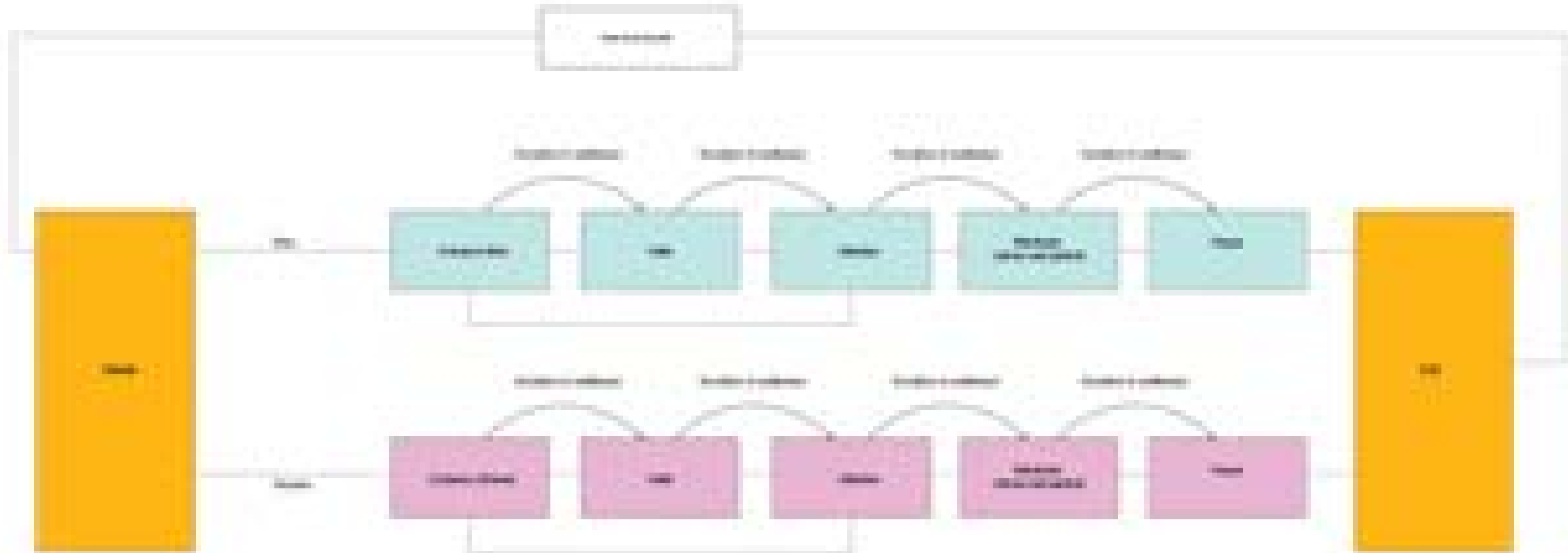
Building order and components

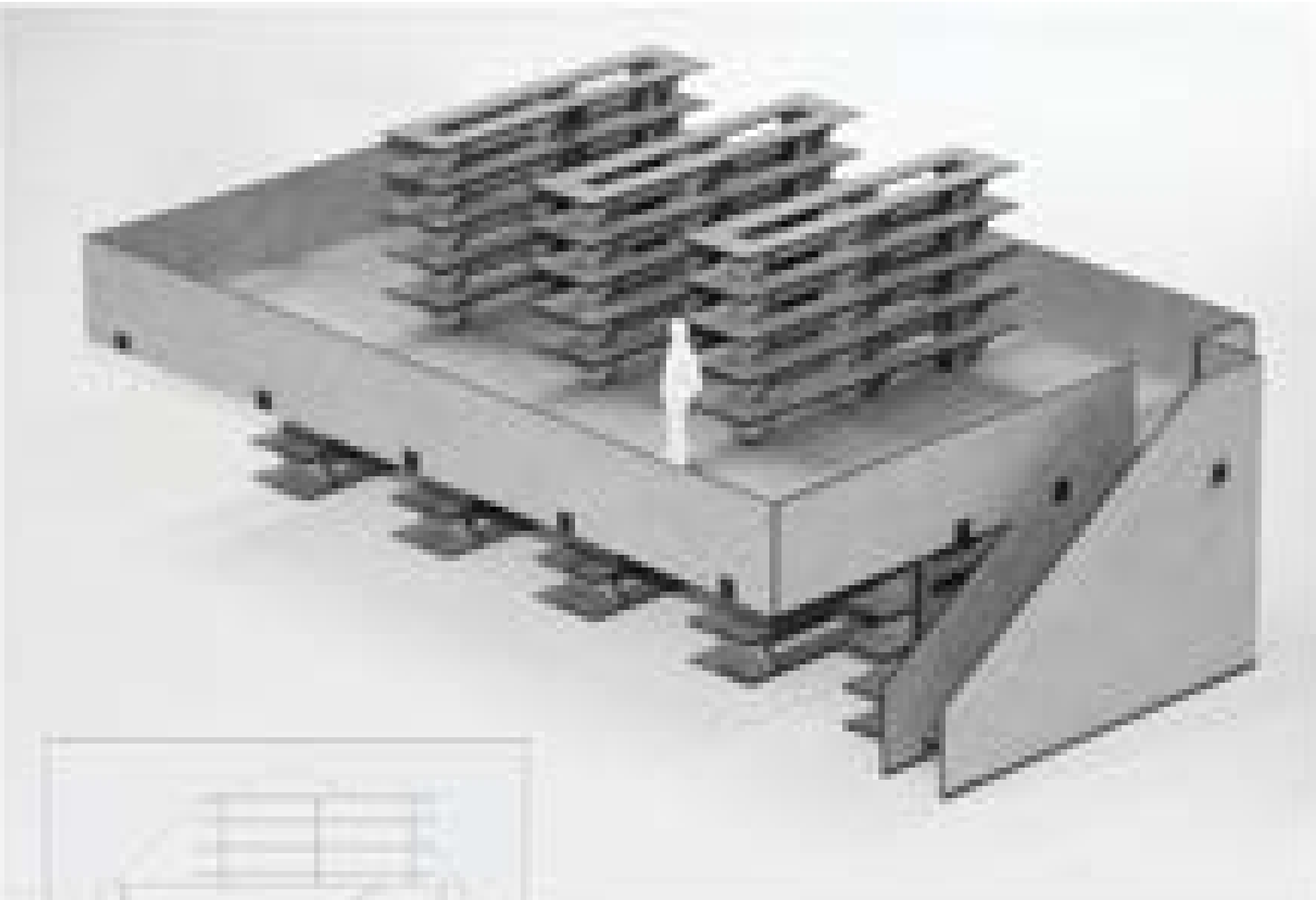


Program of requirements / routing building

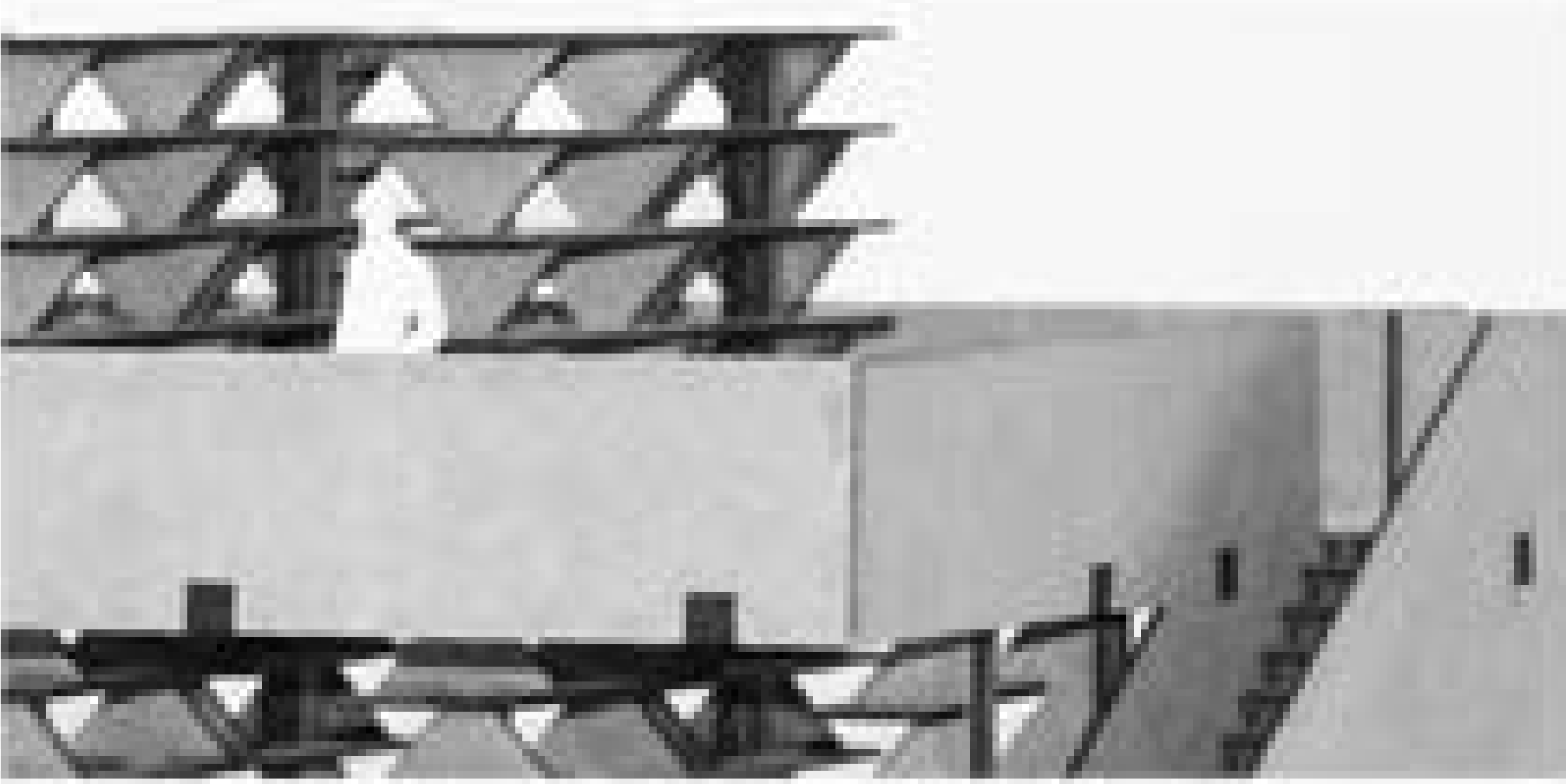
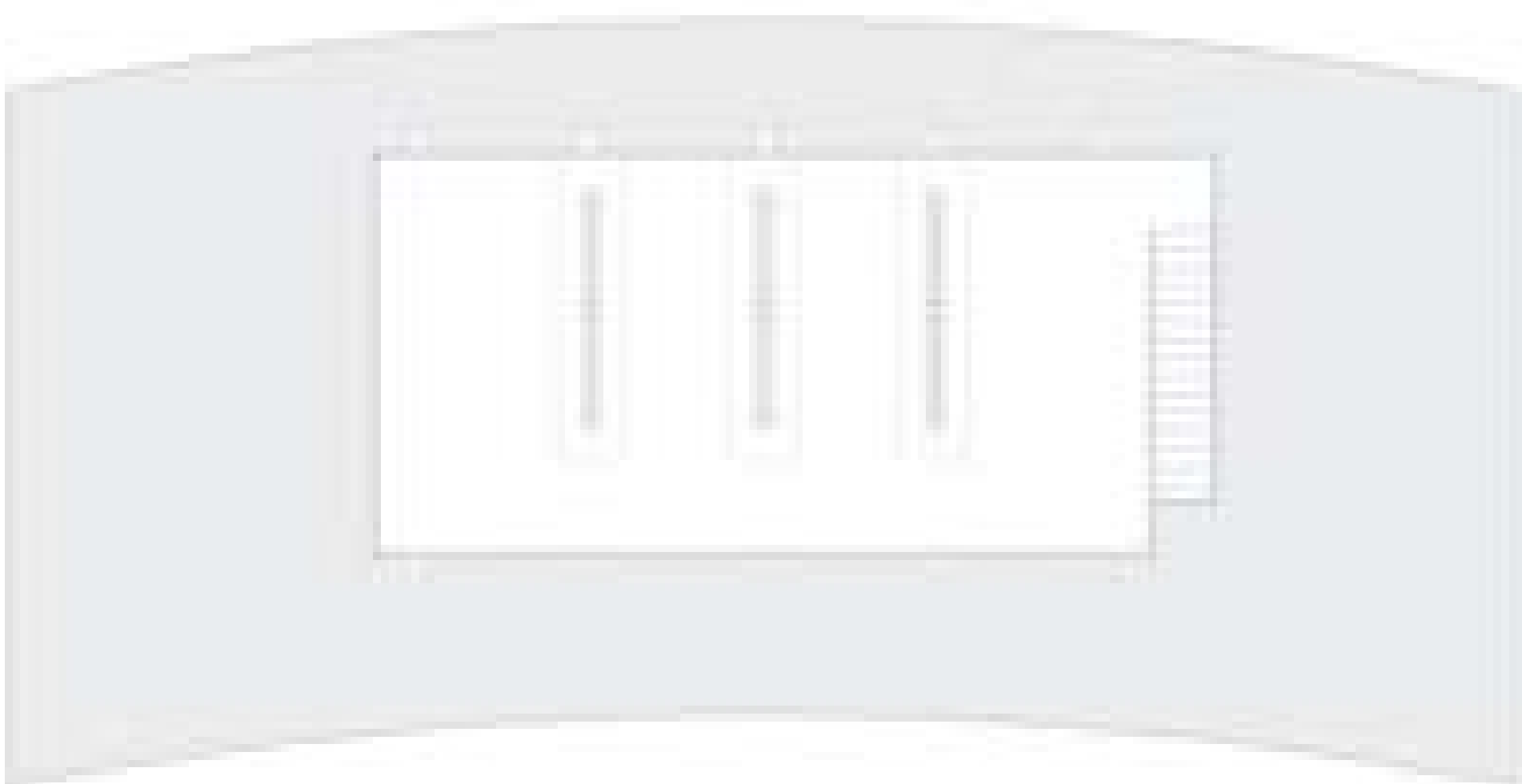
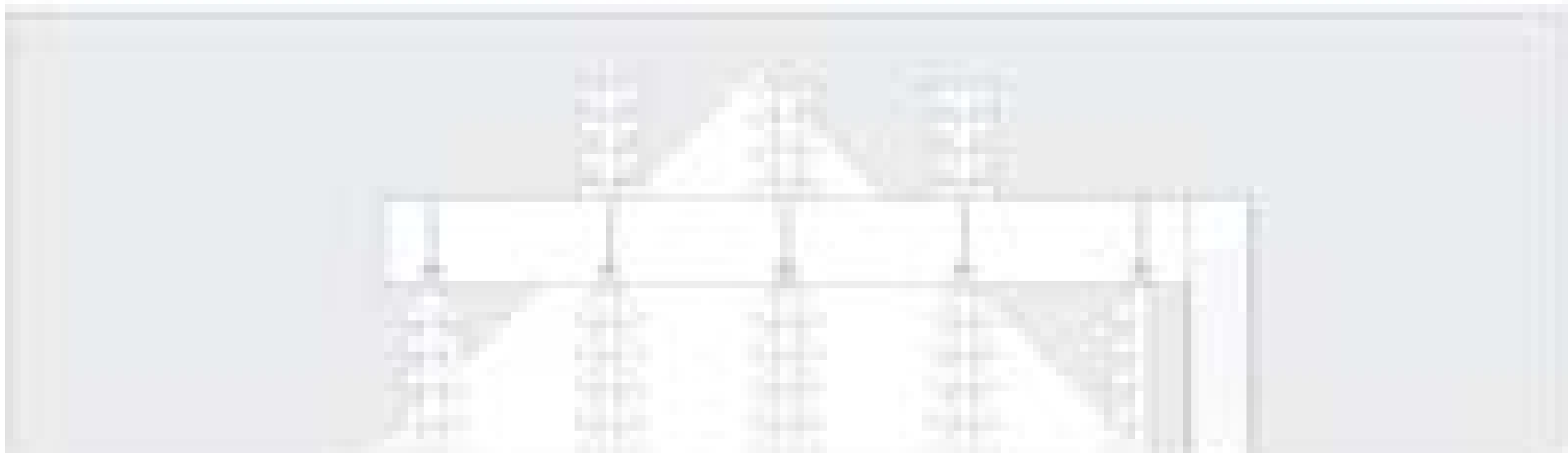


Routing and process of prayer

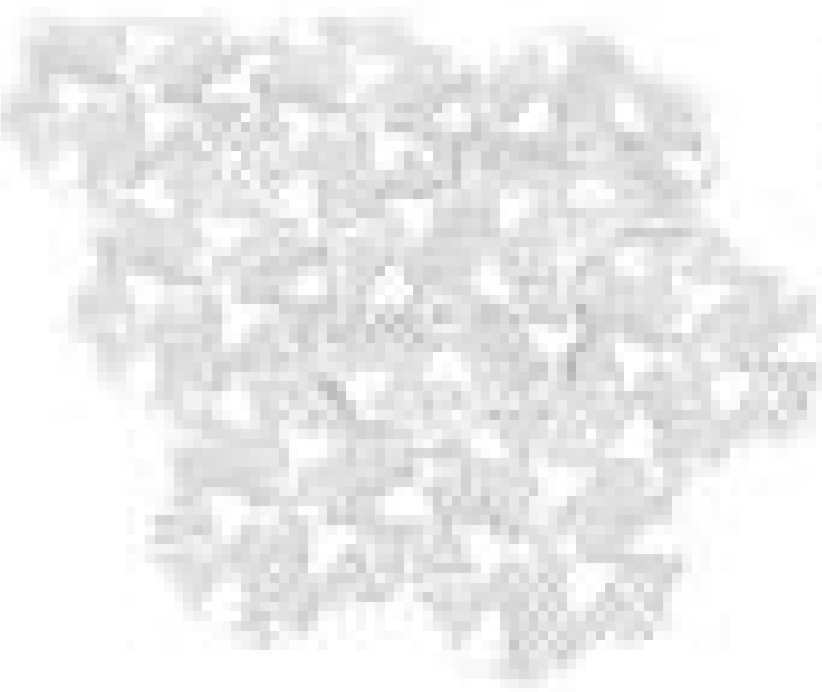




Each space can contain an interior object like this. The spaces are five in height which enables large interiors that at an extra floor.

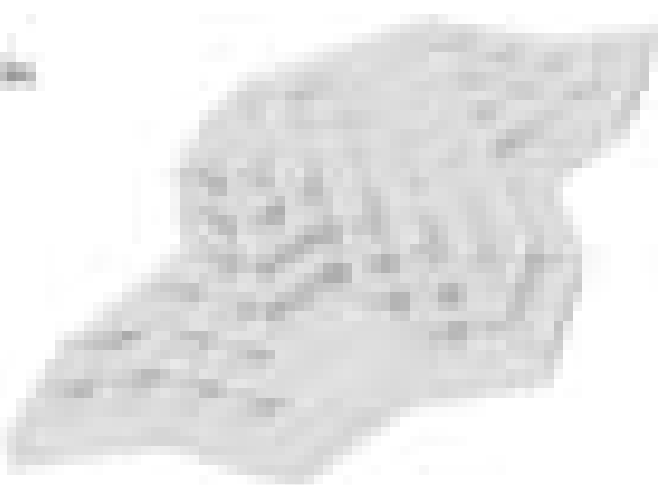


Tile for possible local ornaments as wall decorations.



As part of the research for this graduation a tile has been developed that enables the pattern on the left. This can be used locally to decorate a wall or floor.

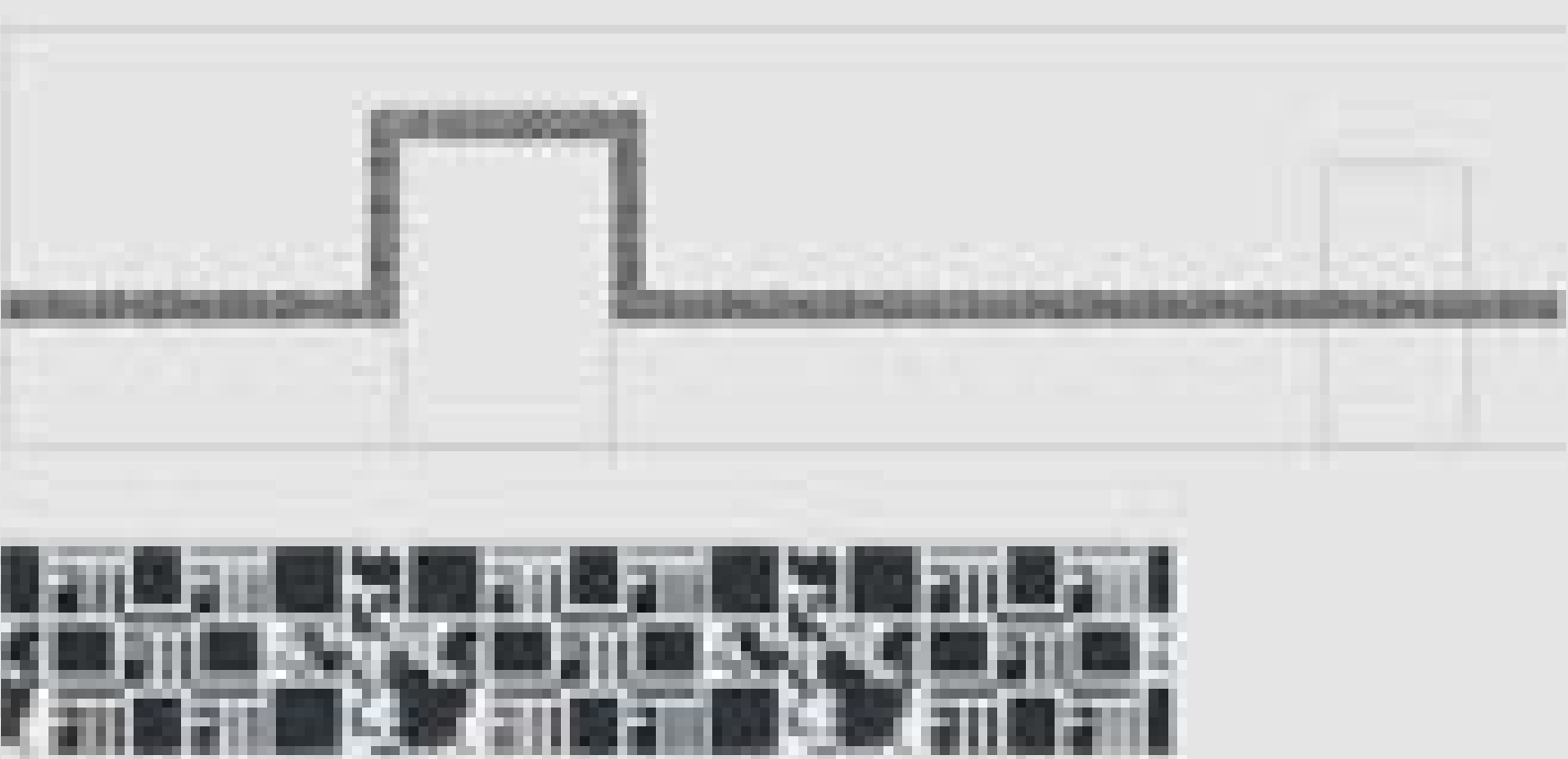
The pattern

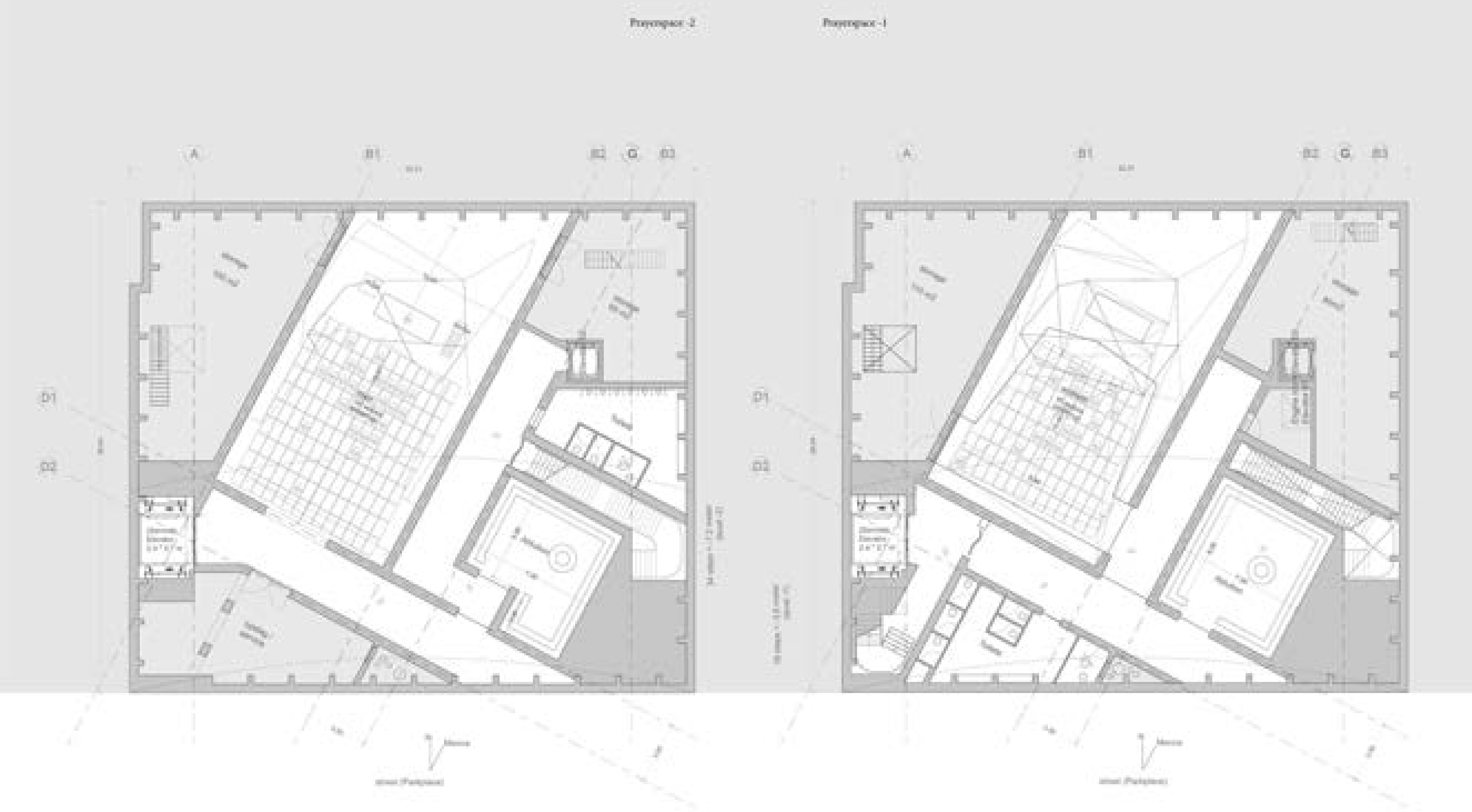


Entrance door for the Prayerspace

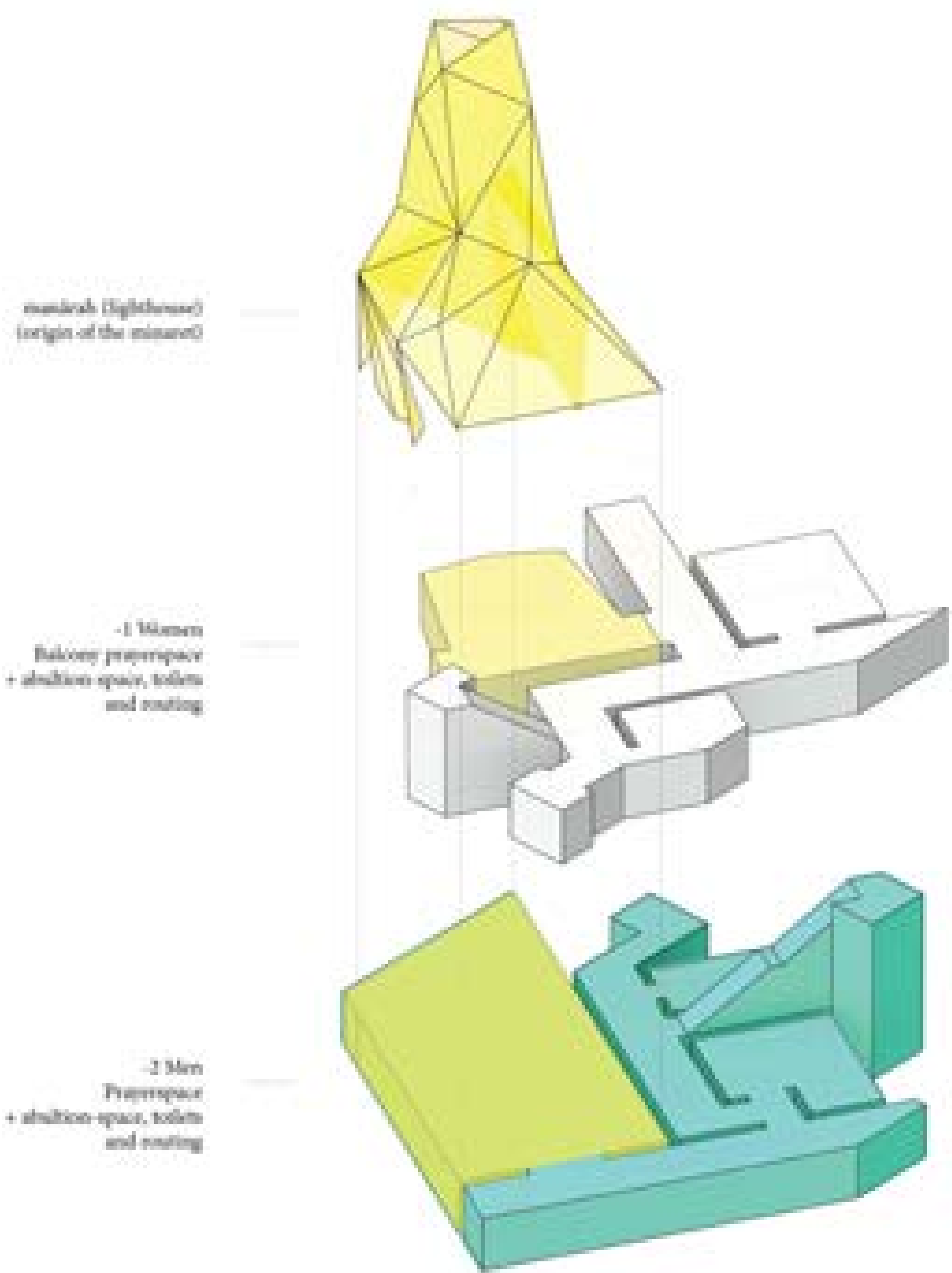


Detail hallway prayerspace



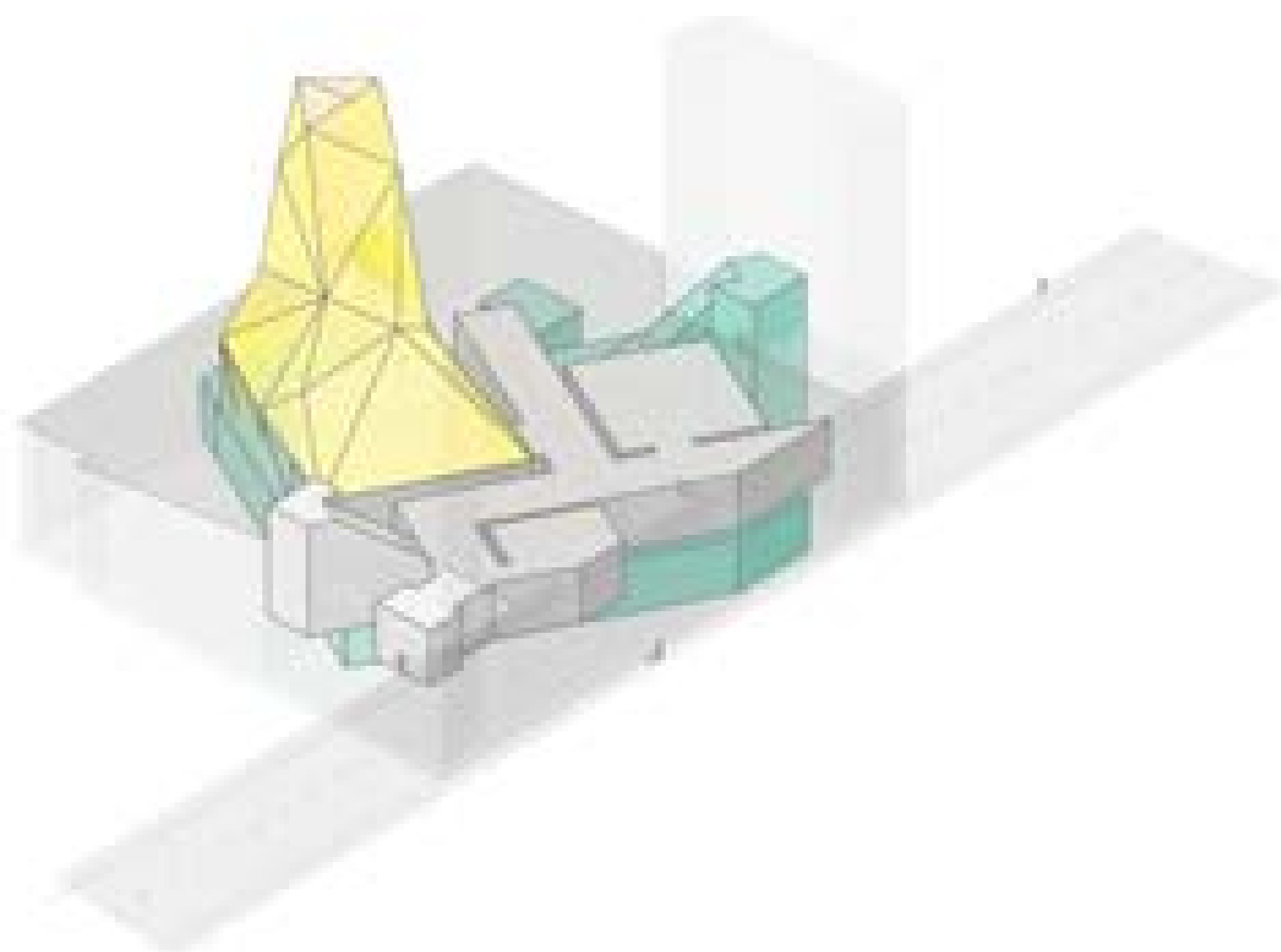


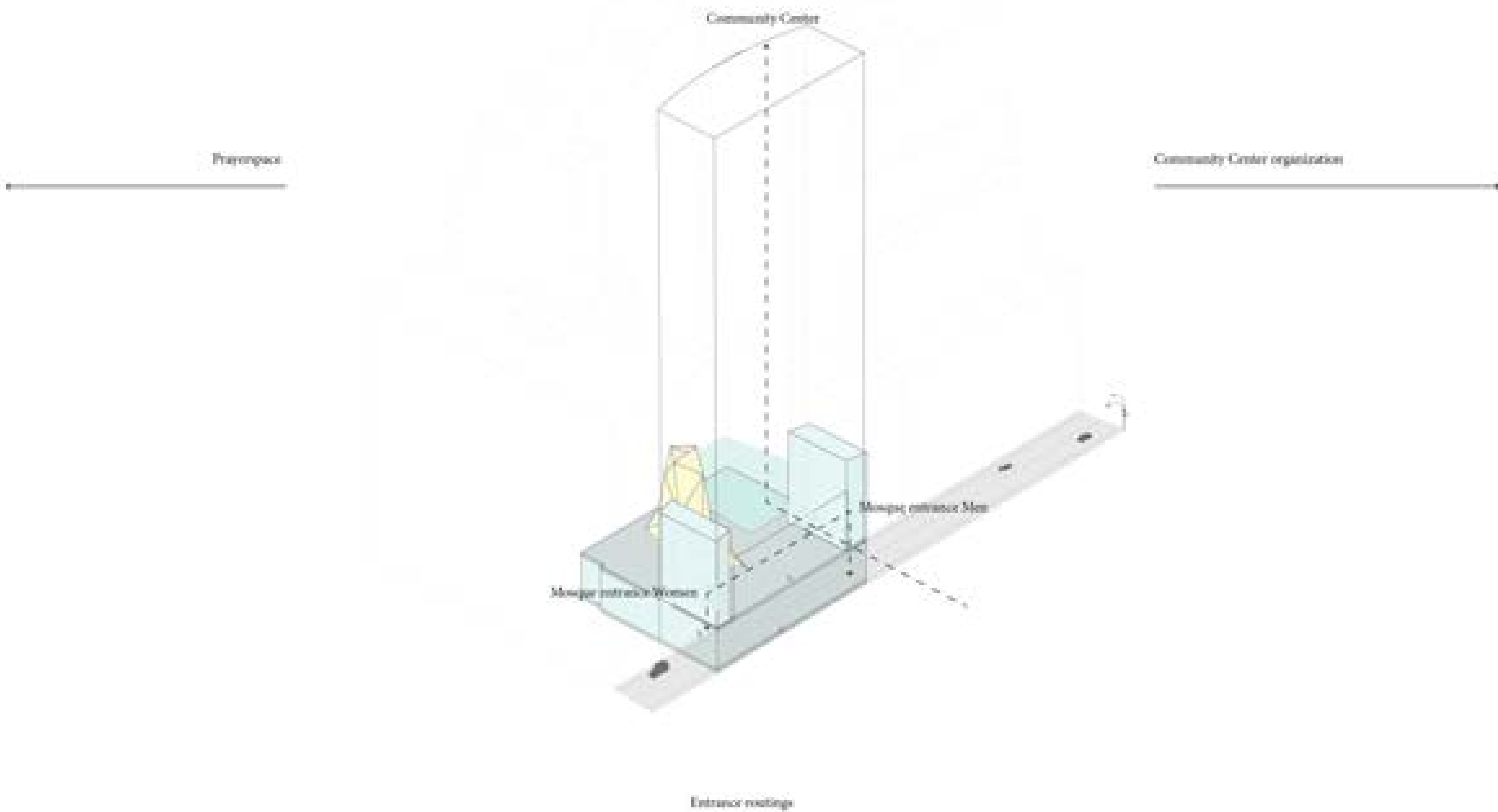
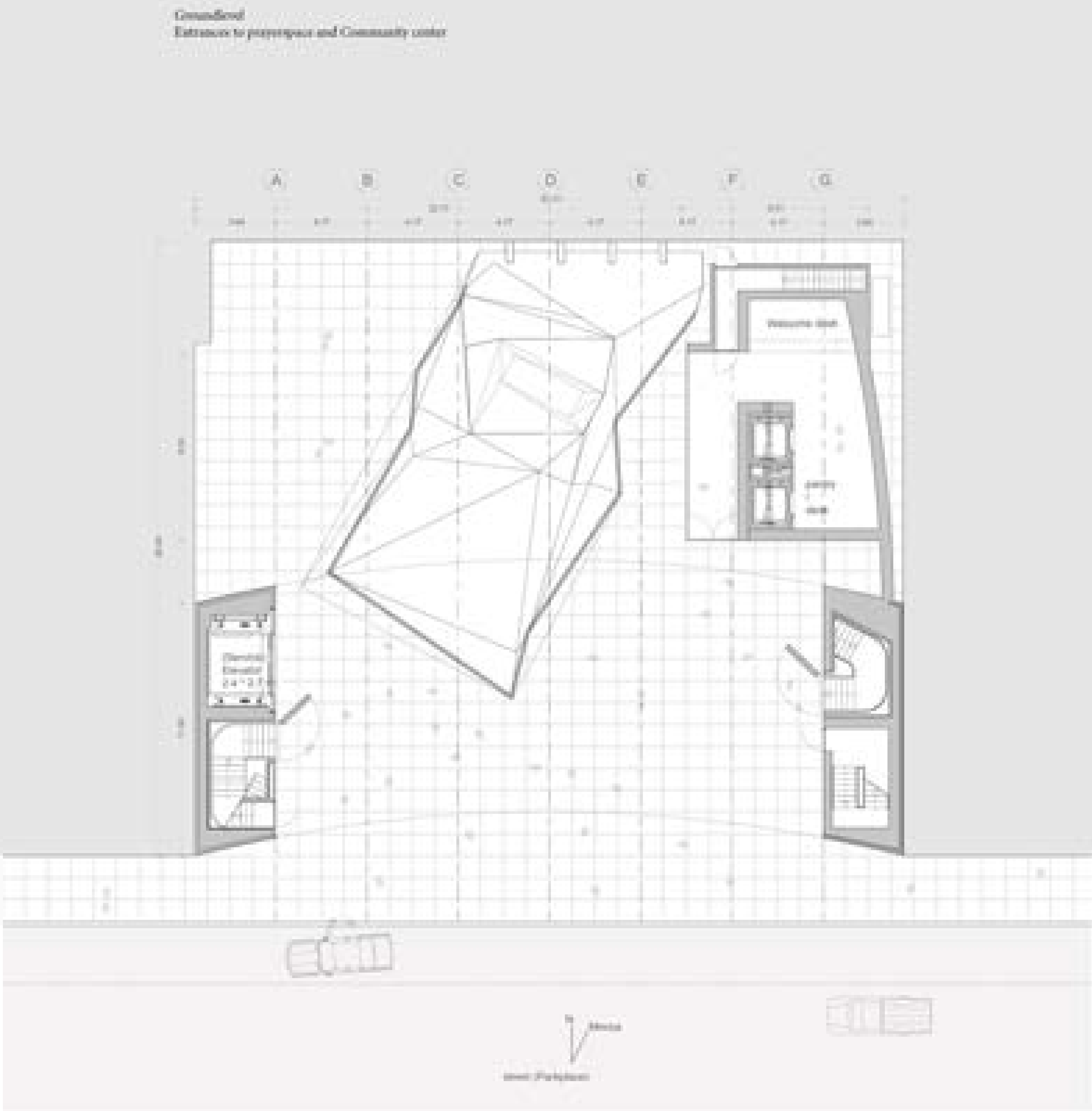
Organization of Prayer space
Men and Women



exploded view

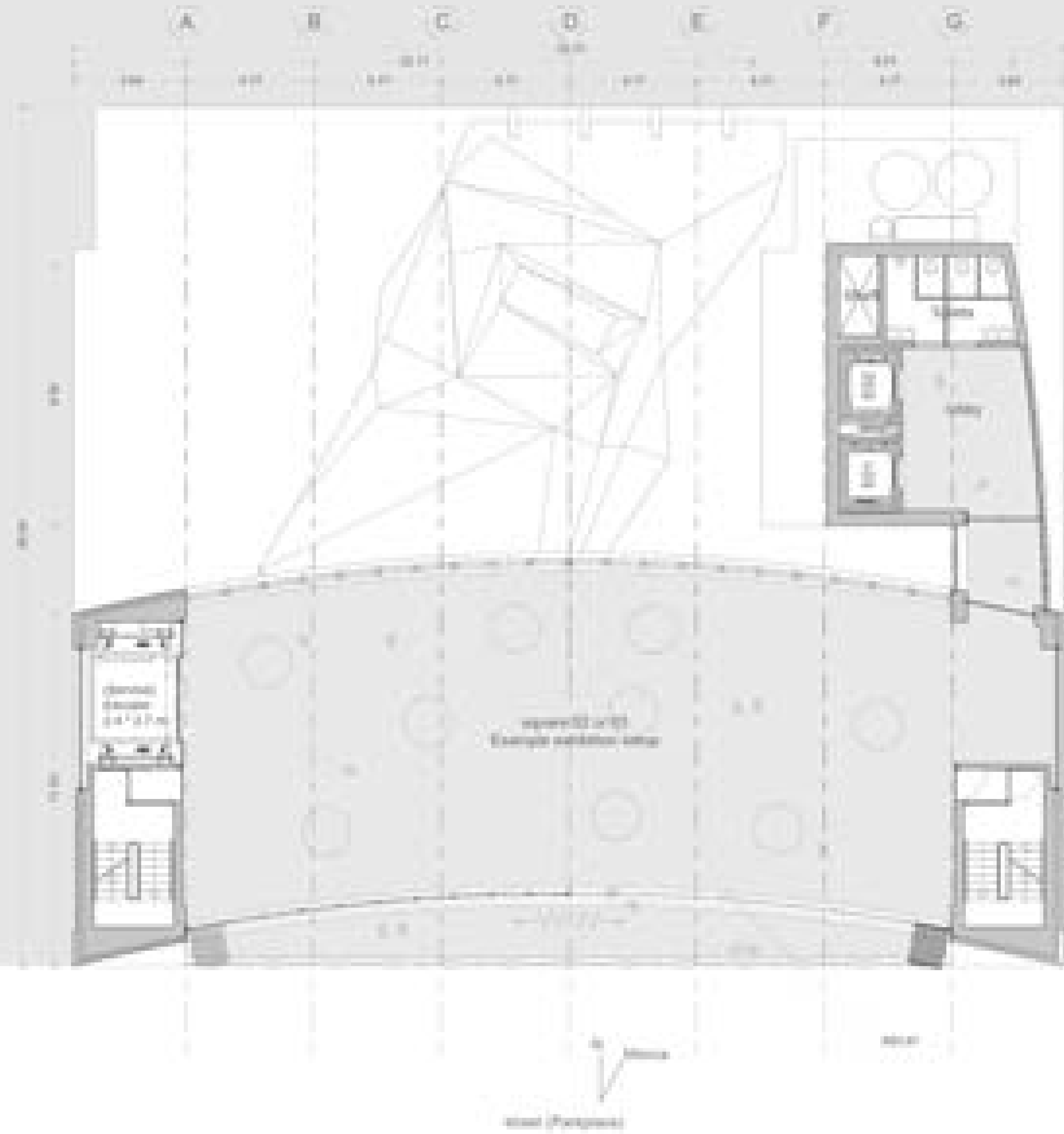
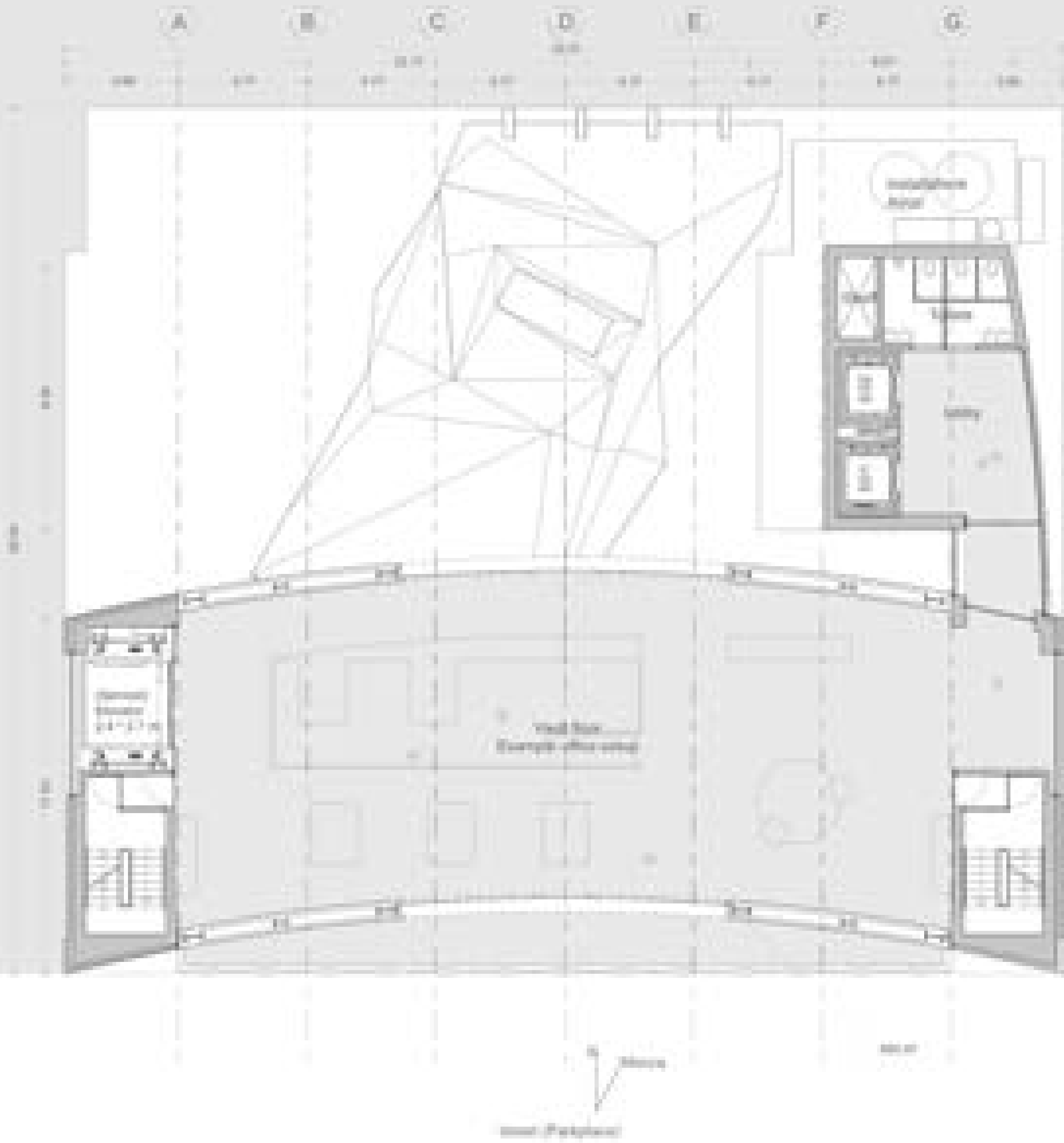
sub-level prayer space + facilities





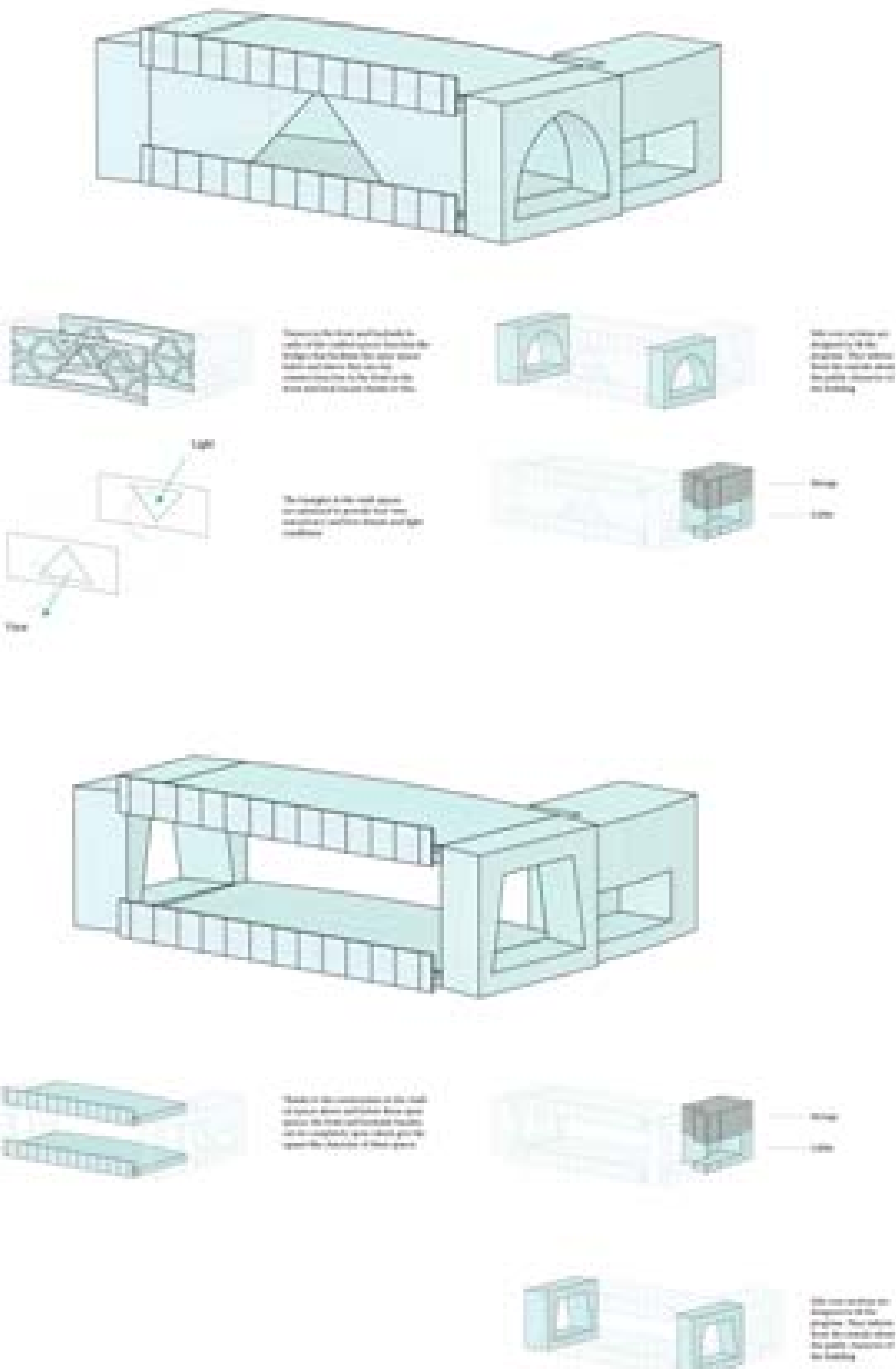
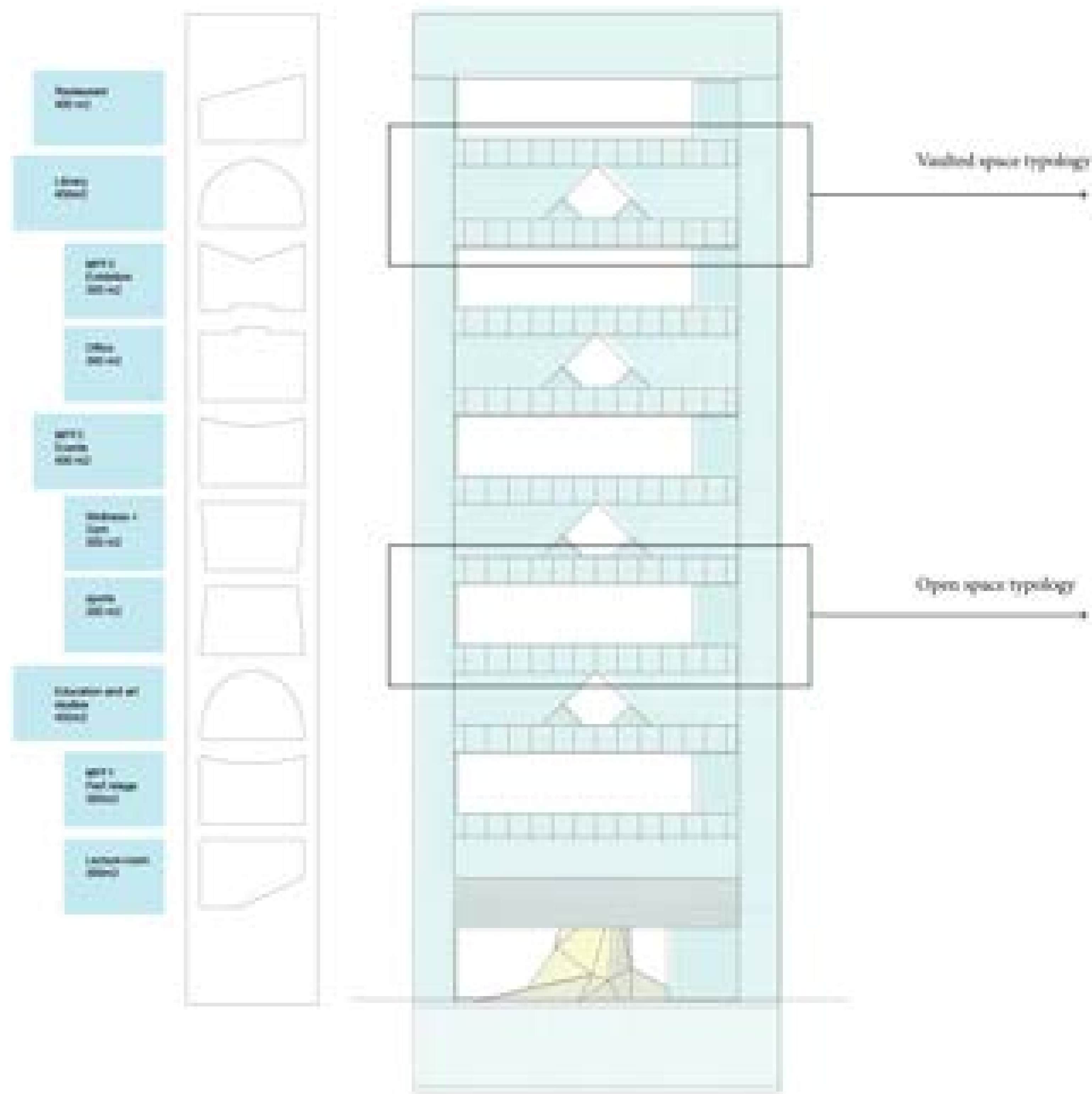
Vaulted space
Example Office / level 1, 3, 5, 7 and 9

Open space
Example Exhibition / level 2, 4, 6, 8 and 10



Vertical organization Community Center

Variation in Vaulted Spaces and Open spaces



Details 1:10

Detail A

General RVB afdichting
U-profiel 150 * 60 mm
Isolatie 150 mm

Ruipje bovenruipje (Stark en stijf (windbest)) bv. Reyniers C324-BL
hoofthalen +200x60 Single Track Sliding Wall
Gevent met handmatig over een hoogte van 3,6 meter
voor de volledige breedte te openen.

Isolatie 150 mm
U-profiel 150 * 60 mm
Houten afdichting 220 * 120 mm

Detail B

Kleurenval RVB indertien
Ondertien
betonvloerplaat of verg. 340 * 40
Isolatie 100mm
PPE 600 * 300 (+ brandwerende verflaag)

Afwerking beton PPE Mat 40 mm
Staalplaat betonvloer 170 mm
Stalen concrete 1750 * 300 mm

Aandrijving interne paneelen
Externe paneelen, hoge witte bestendigheid
bv. Hores DVB 100 AA-S of verg.
Bontvering

Pattern of raised alc-profiles

Translucent facade system
Outside: hoge Ru-waarde, hoge lichttransmissie bv.
Plexiglas Profil Double U-profiel Glass Aardjeel Insulated
50*500*100 mm glass profiles (max height possible is 7m)
Supported by 50 mm frame made + main construction rule
R₀ 4 (max. 2.5) / Lichte 95%
Inside: Makula 50*50*1000 mm paneelen
contains reader of light transmitting plastic tubes
Results in diffuse light
Optimizes interior acoustics / Lichte 95%
Additional R₀ of 2

Bevestiging Co-Ex panel met klemmen
verbonden aan draagstructuur
brandwerende verflaag rond PPE 600 * 300 mm

Detail C

General RVB afdichting
Isolatie 2 * 50 mm
PPE 150 * 150 (ondersteunende structuur versterkt in koud) bv. onderliggende steun.
Ruipje (Stark en stijf (windbest)) bv. Reyniers C324-BL
Houten afdichting 270 * 120 mm

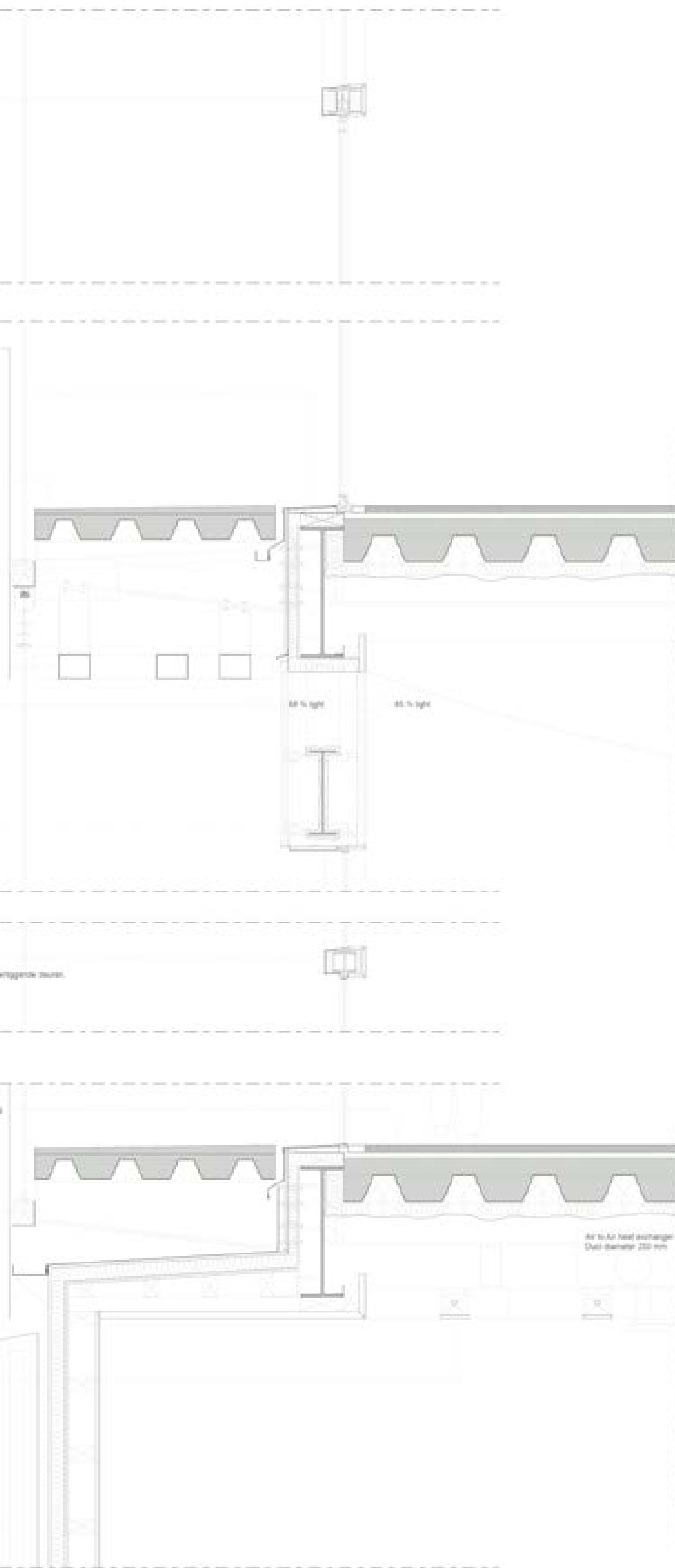
Detail D

50 mm Epoxysilicon sterk + beton-oppervlakte afdichting versterking
(niette resp. afdichting versterking)
40 mm isolatie (bv. vloerplaatvering, afdichting en geluid)
Staalplaat betonvloer 300 mm
Isolatie 100 mm
PPE 600mm (Oversteking)

Profiel (bv. geleide kabels paneelen)
Hores DVB 100 AA-S

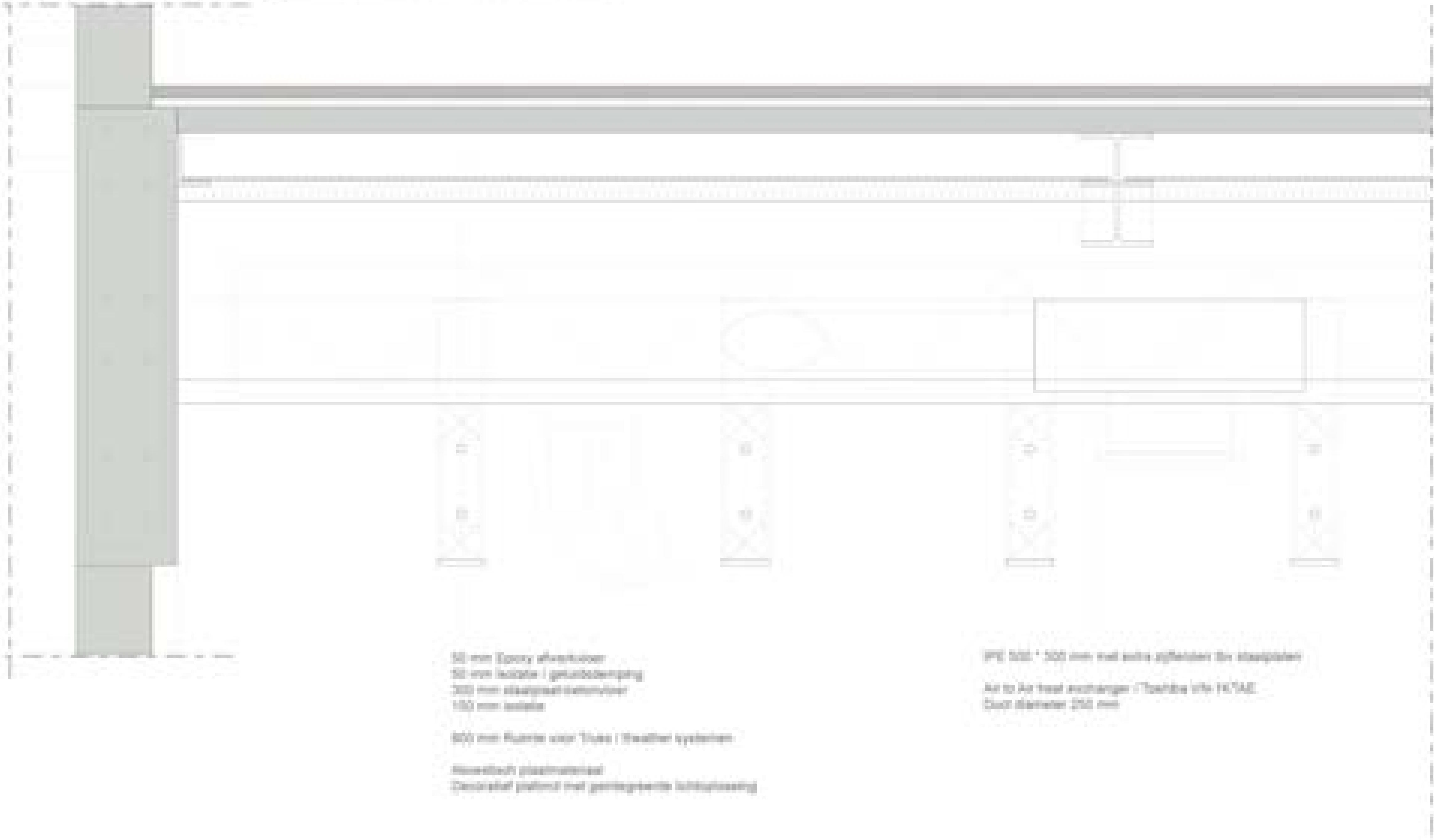
Samengetrokken ligger, functie als schermatuur

<http://www.pfeifer-hausbau.de>
Aanpak voor glas als informatie facade

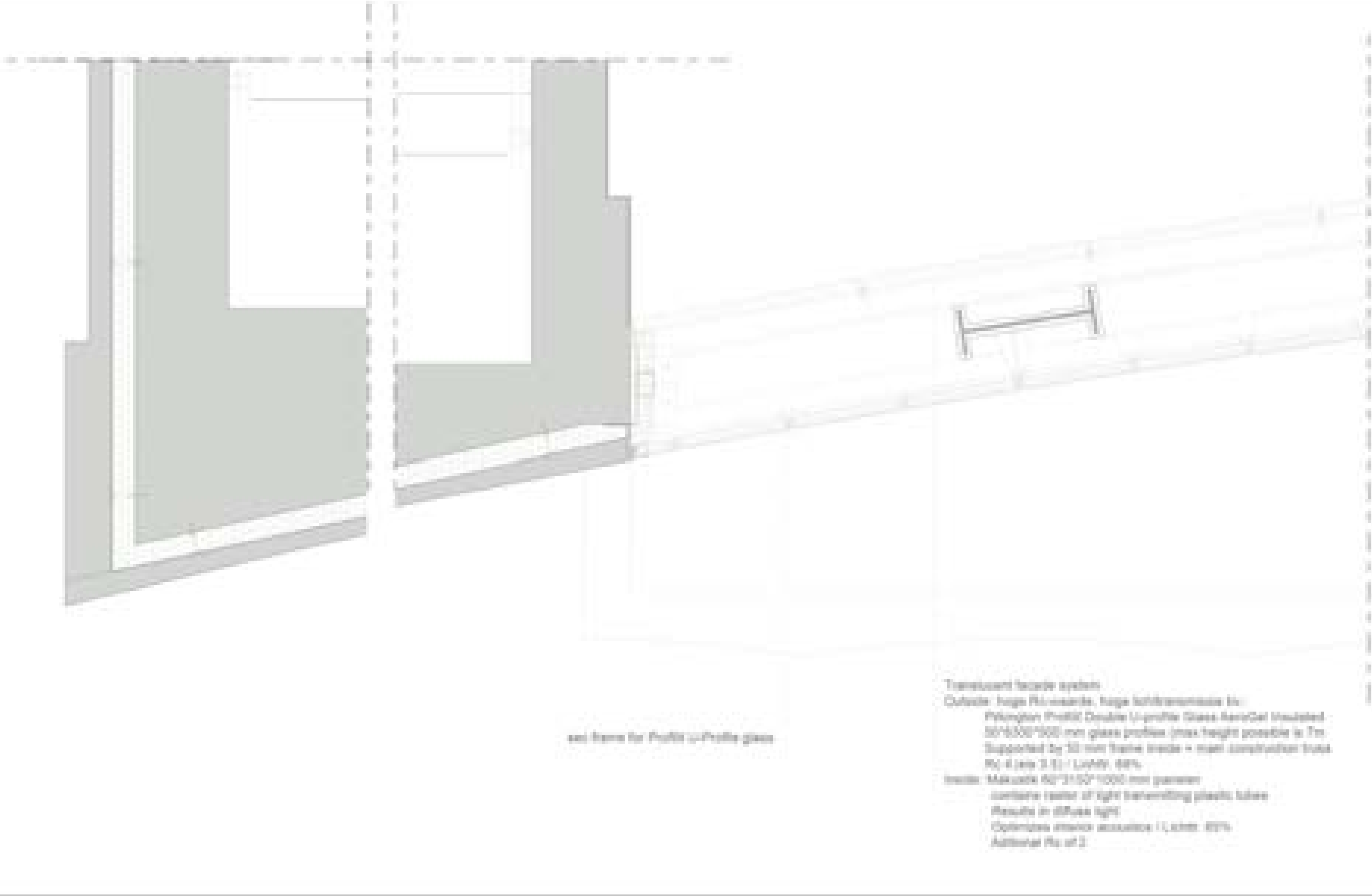


Details 1:10

Detail F

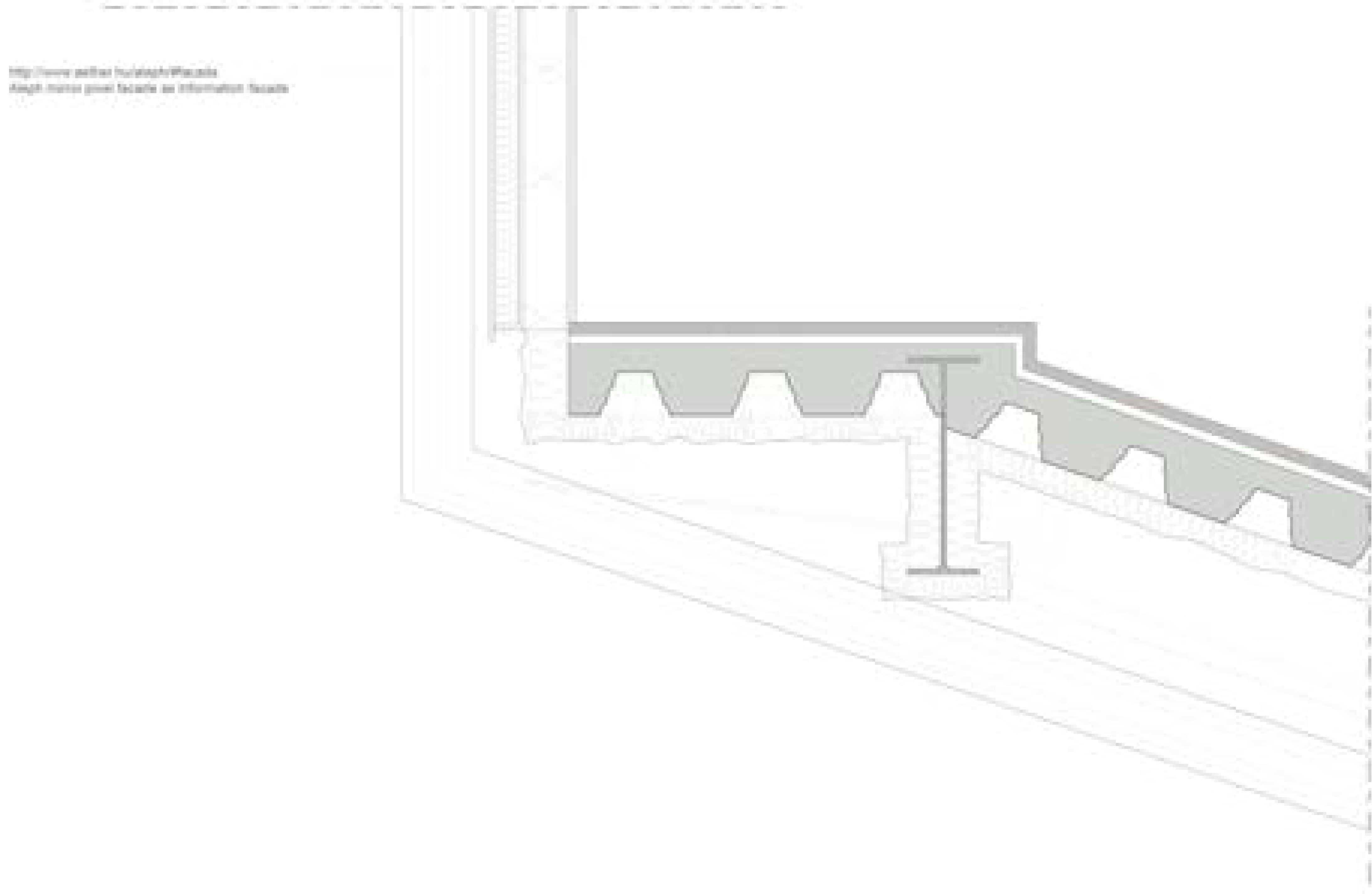


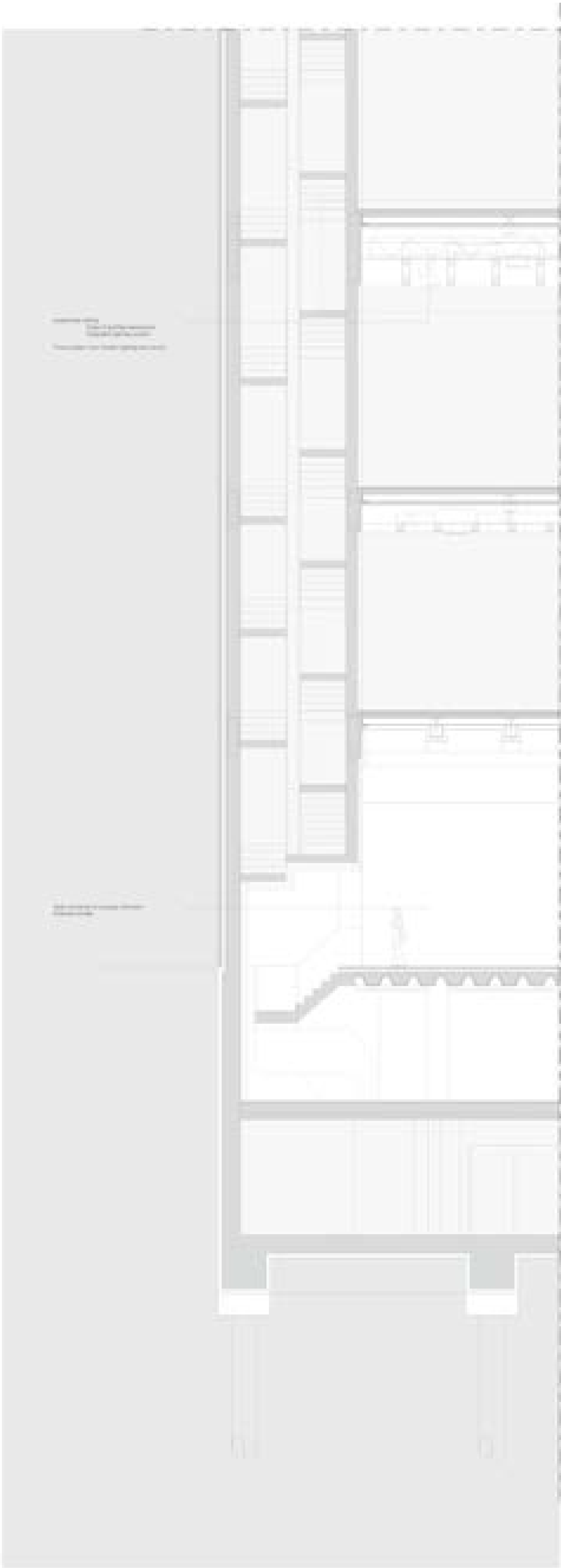
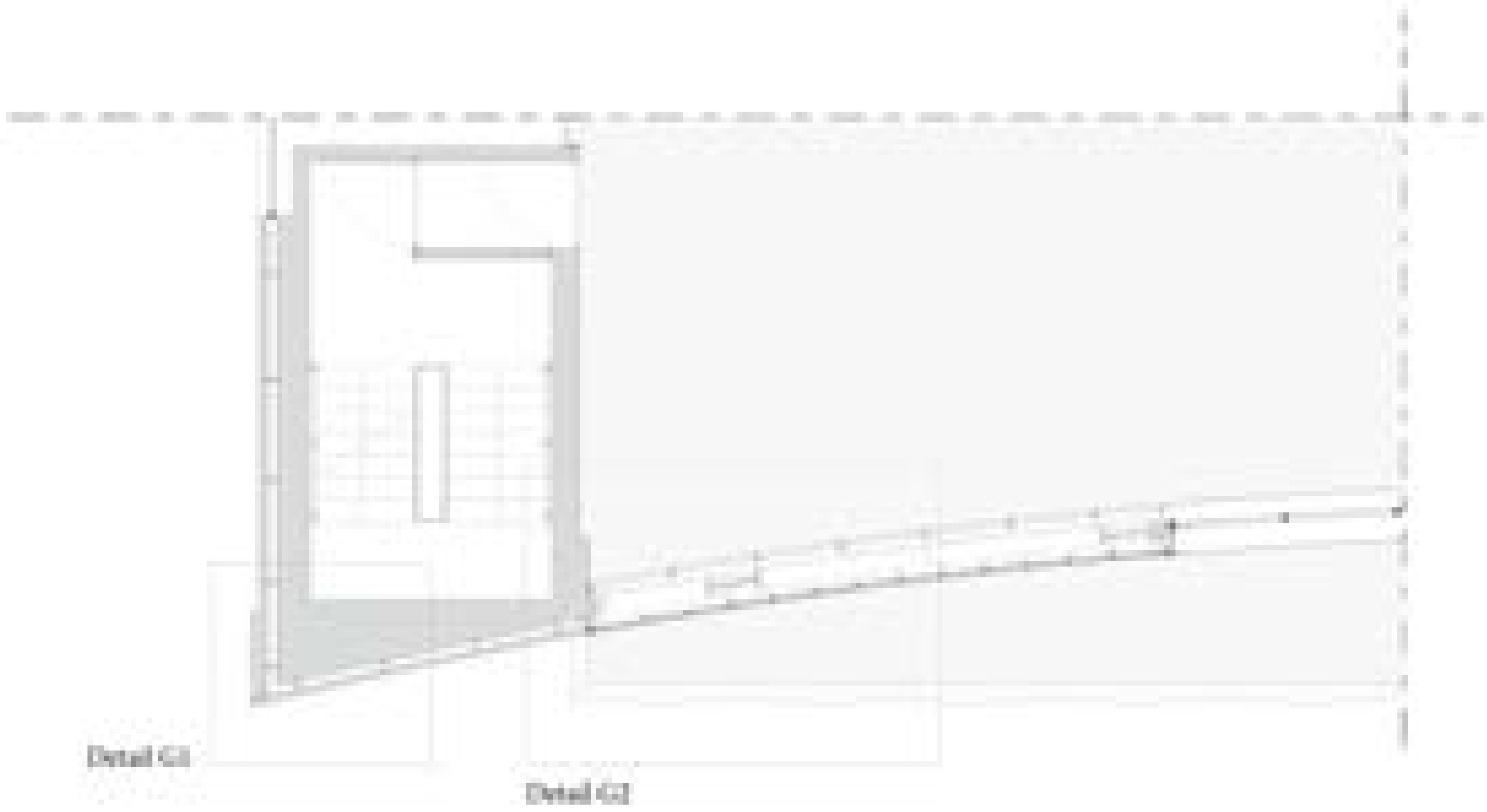
Detail G1



Detail G2

Detail E





Detail F

