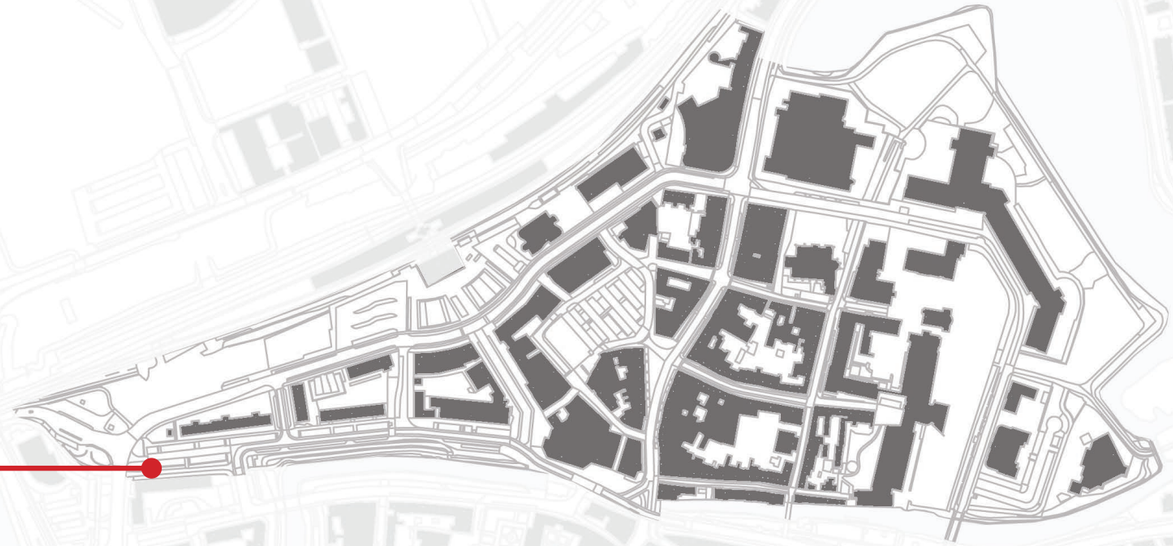
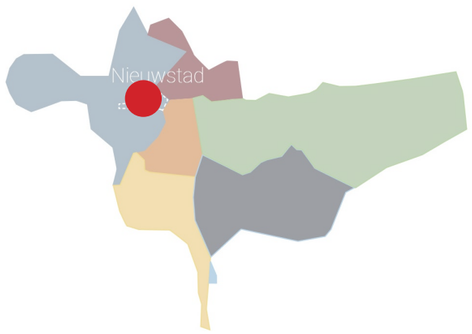
The Educational Agora of Klein Vaticaan.

George Sitarenios.

de Kachoarn

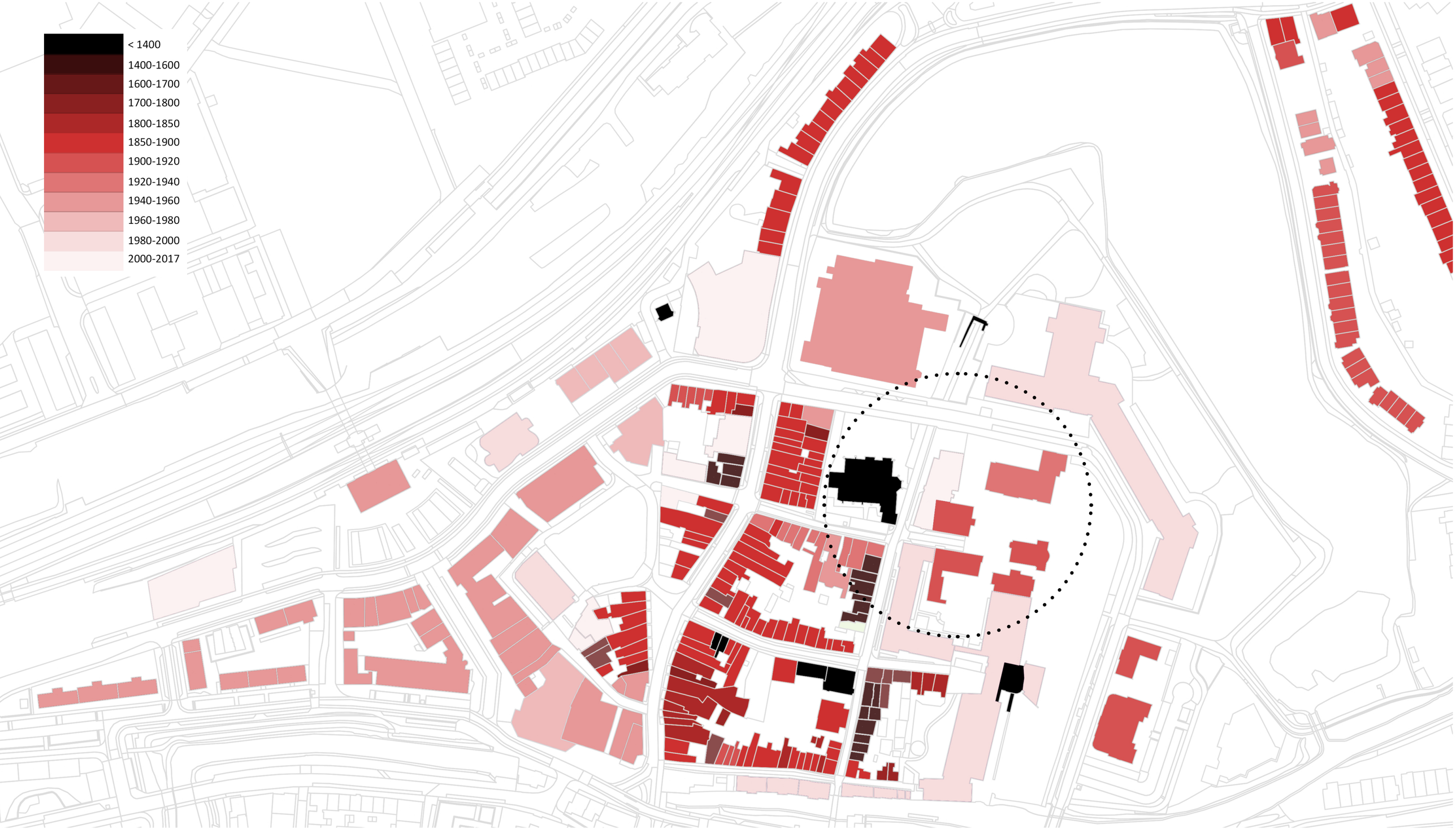
Nieuwstad in Zutphen

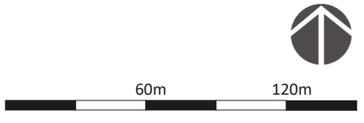




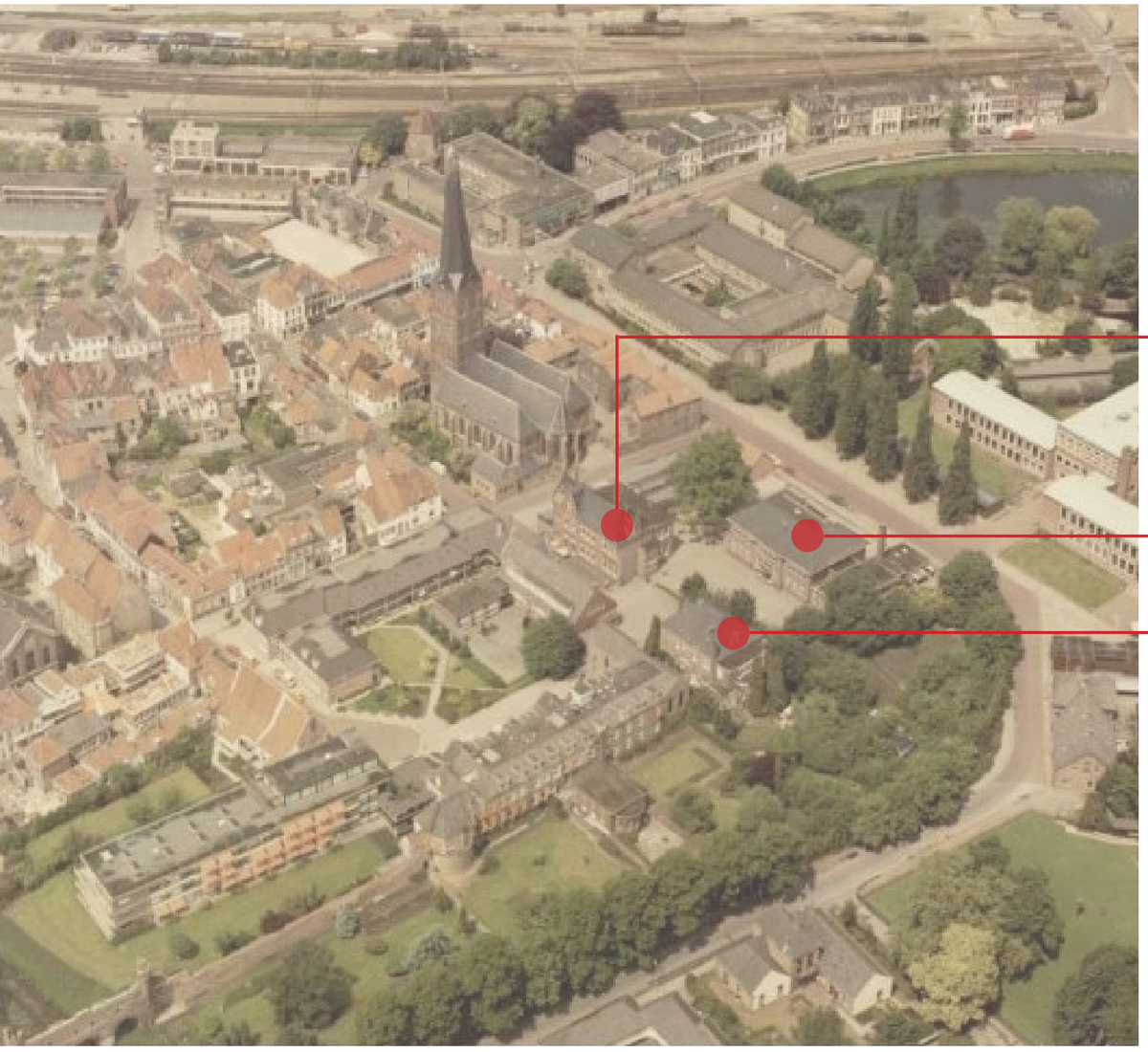
60m 120m

The historic fabric of Nieuwstad.





The educational enclave of Klein Vaticaan.



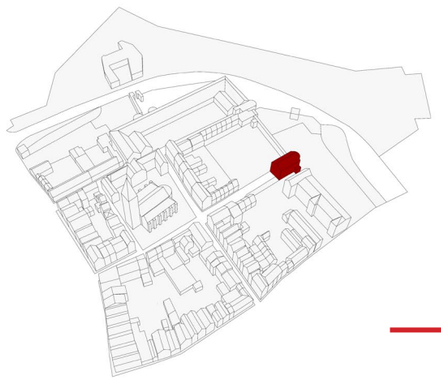
St.Anna School

The Pastorie

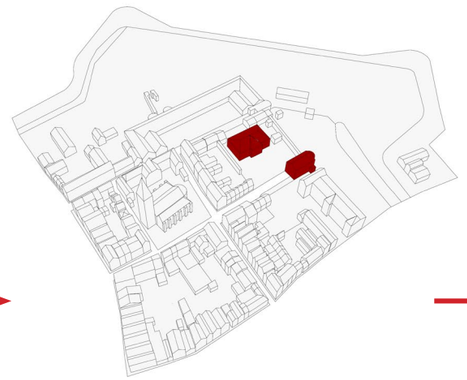
St.Joseph School

Histroric evolution of the site.

1842

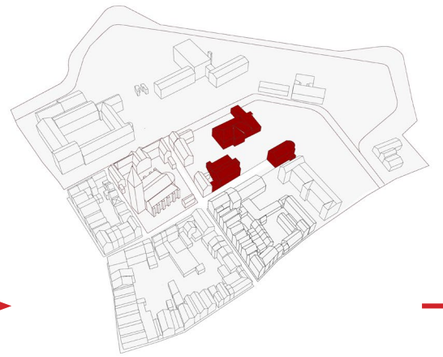


Until 1900

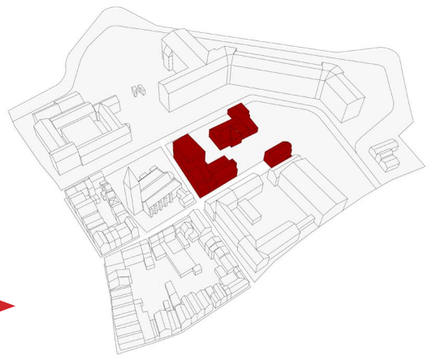


Until 1928

Until 1950

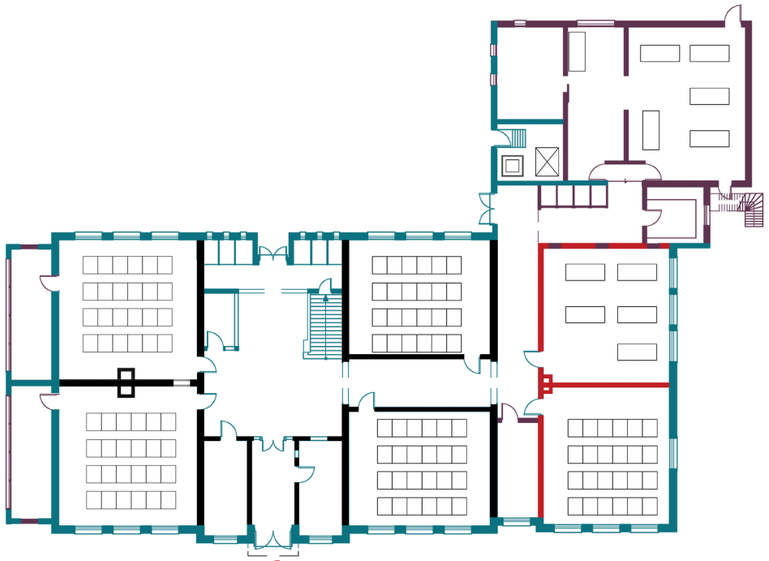


2001-now

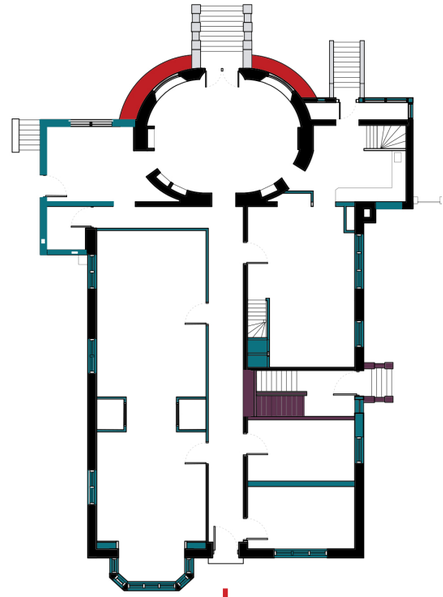


Analysis of the elements.

St.Anna School



St.Joseph School

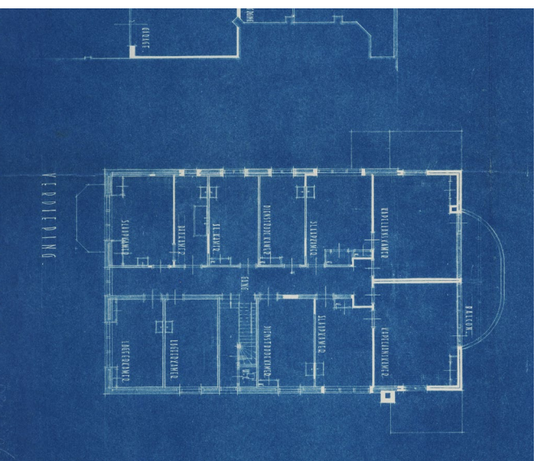


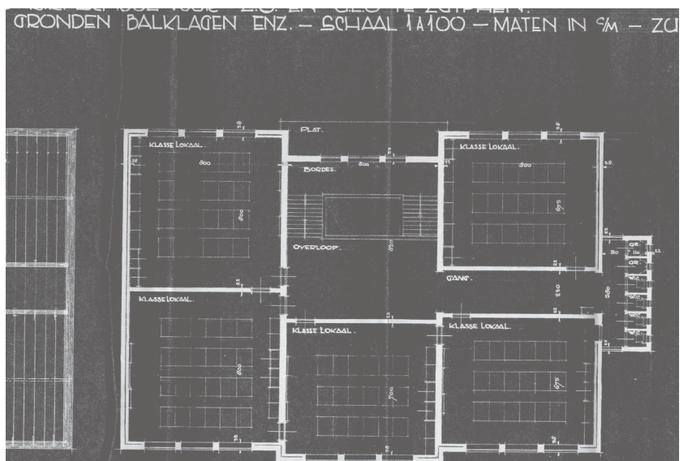
The Pastorie

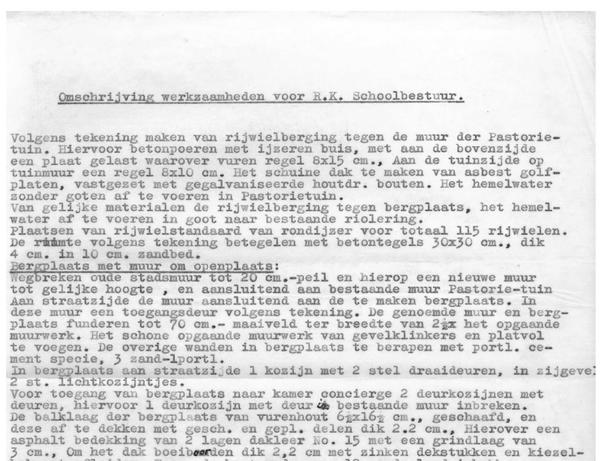
1909 1970 2015
1967 2001

1891 1933
1914 1960

1902 1933 14th C
1995 1891







Omschrijving werkzaamheden voor R.K. Schoolbestuur.

Volgens tekening maken van rijwielberging tegen de muur der Pastorie-tuin. Hiervoor betonpoeren met ijzeren buis, met aan de bovenzijde een plaat gelast waarover vuren regel 8x15 cm., Aan de tuinzijde op tuinmuur een regel 8x10 cm. Het schuine dak te maken van asbest golf-platen, vastgezet met gegalvaniseerde houtdr. bouten. Het hemelwater zonder goten af te voeren in Pastorietuin.
Van gelijke materialen de rijwielberging tegen bergplaats, het hemel-water af te voeren in goot naar bestaande riolering.
Plaatsen van rijwielstandaard van rondijzer voor totaal 115 rijwielen.
De ruimte volgens tekening betegelen met betontegels 30x30 cm., dik 4 cm. in 10 cm. zandbed.
Bergplaats met muur om openplaats:
Wegbreken oude stadsmuur tot 20 cm.-peil en hierop een nieuwe muur tot gelijke hoogte , en aansluitend aan bestaande muur Pastorie-tuin Aan straatzijde de muur aansluitend aan de te maken bergplaats. In deze muur een toegangsdeur volgens tekening. De genoemde muur en berg-plaats funderen tot 70 cm.- maaiveld ter breedte van 2½ het opgaande muurwerk. Het schone opgaande muurwerk van gevelklinkers en platvol te voegen. De overige wanden in bergplaats te berapen met portl. ce-ment specie, 3 zand-1portl.
In bergplaats aan straatzijde 1 kozijn met 2 stel draaideuren, in zijgeve 2 st. lichtkozijtjes.
Voor toegang van bergplaats naar kamer concierge 2 deurkozijnen met deuren, hiervoor 1 deurkozijn met deur bestaande muur inbreken.
De balklaag der bergplaats van vurenhout 6½x16 cm., geschaafd, en deze af te dekken met gesch. en gepl. delen dik 2.2 cm., Hierover een asphalt bedekking van 2 lagen dakleer No. 15 met een grindlaag van ½ cm., Om het dak boeibeenden dik 2,2 cm met zinken dekstukken en kiezel-

St. Anna School.

Ground floor plan

- The building of St.Anna presents **distinctive artistic value**, most expressed in its **eclectic southern façade**
- The **floor lay out and the generous proportions of the rooms**, represent **characteristics of religious and executive buildings/Historic value.**

Elements of high value.
Preserve and conserve in original state.

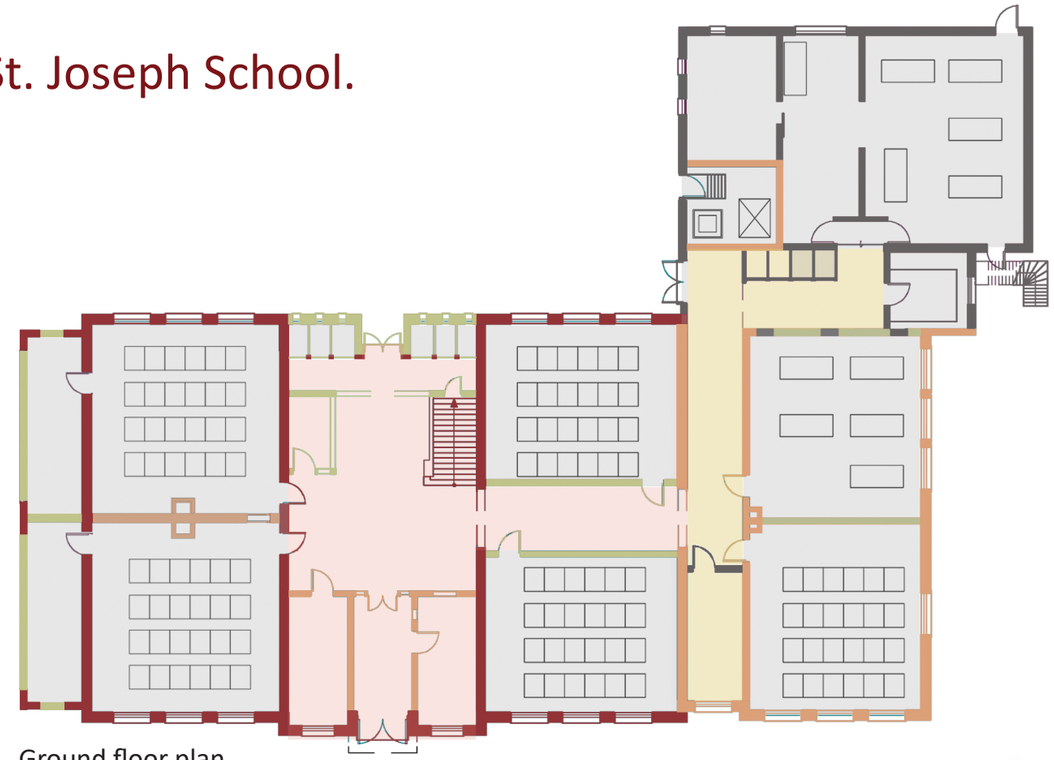
Redevelopment is possible with new elements that complement existing character.

Restoration and considerate transformation of these elements.

Element of negative impact.Removal or transformation would be recommended.

South facade

St. Joseph School.



Ground floor plan

- School of St. Joseph, **carries artistic and historic value** when it comes to its **two main facade**
- I**nterior and lay out and central hallway** with its generous void and **stained glass** windows, reflects values of **aesthetic and historic interest**
- **Original interior woodwork** presents level of **historical and artistic value**

Elements of high value.
Preserve and conserve in original state.

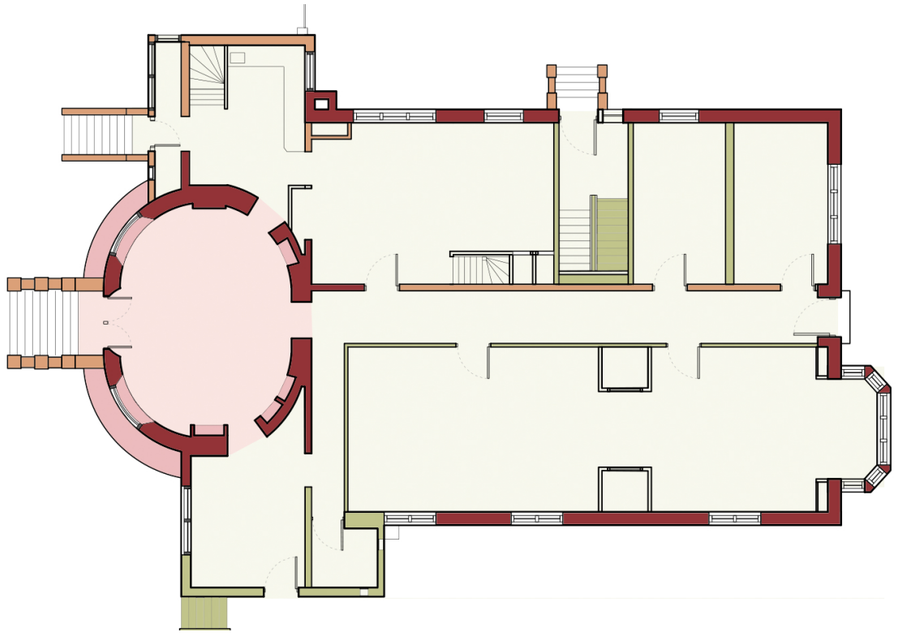
Redevelopment is possible with new elements that complement existing character.

Restoration and considerate transformation of these elements.

Element of negative impact.Removal or transformation would be recommended.

South facade

The Pastorie.



Ground floor plan

East facade

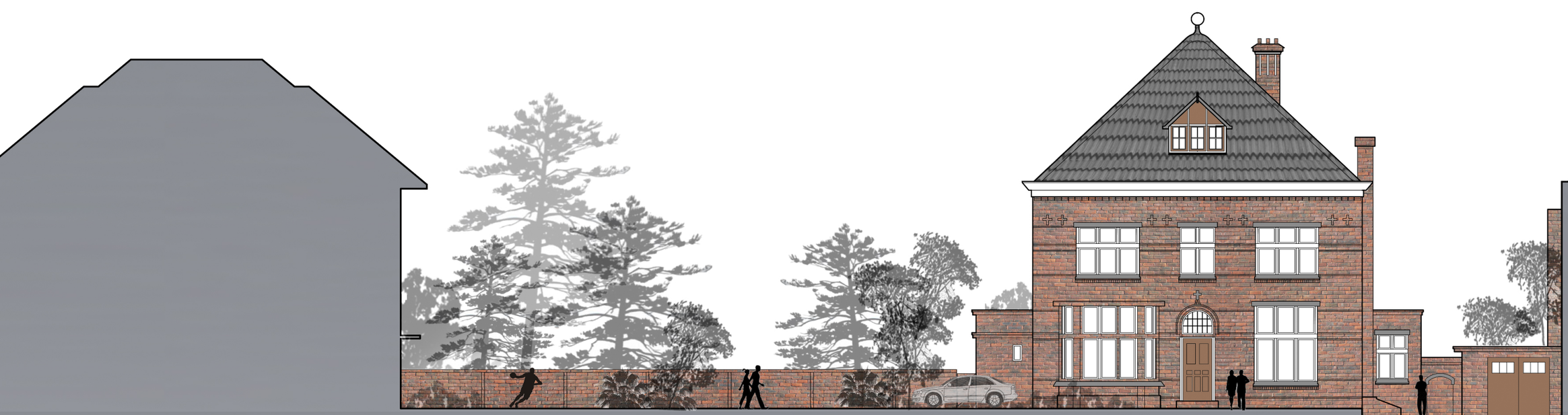
- **Pastorie, embodies historic and social value** as a representative of a r**esidential typology** related with historic-**Catholic tradition**
- Fragmented spaceplane and the overall lay out, has **aesthetic value**
- The **oval shaped volume**, located at the back of the house has **great historic value** since standing upon **remains of the city's old fortification works**

Elements of high value.
Preserve and conserve in original state.

Redevelopment is possible with new elements that complement existing character.

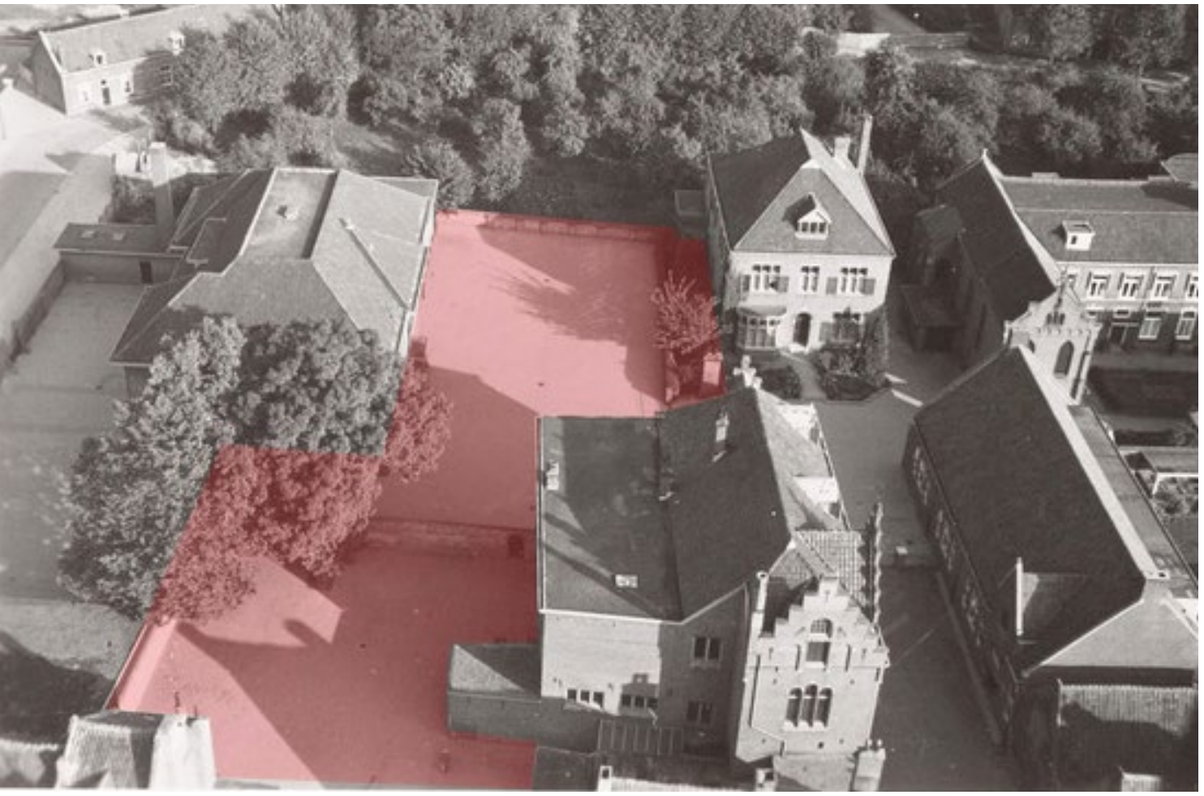
Restoration and considerate transformation of these elements.

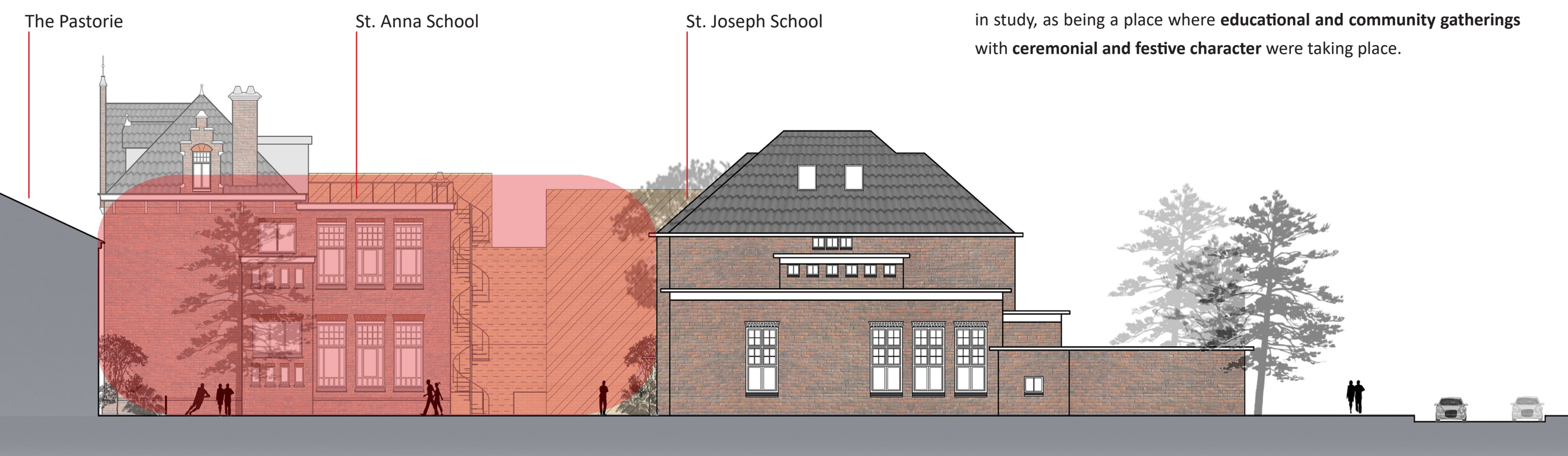
Element of negative impact.Removal or transformation would be recommended.



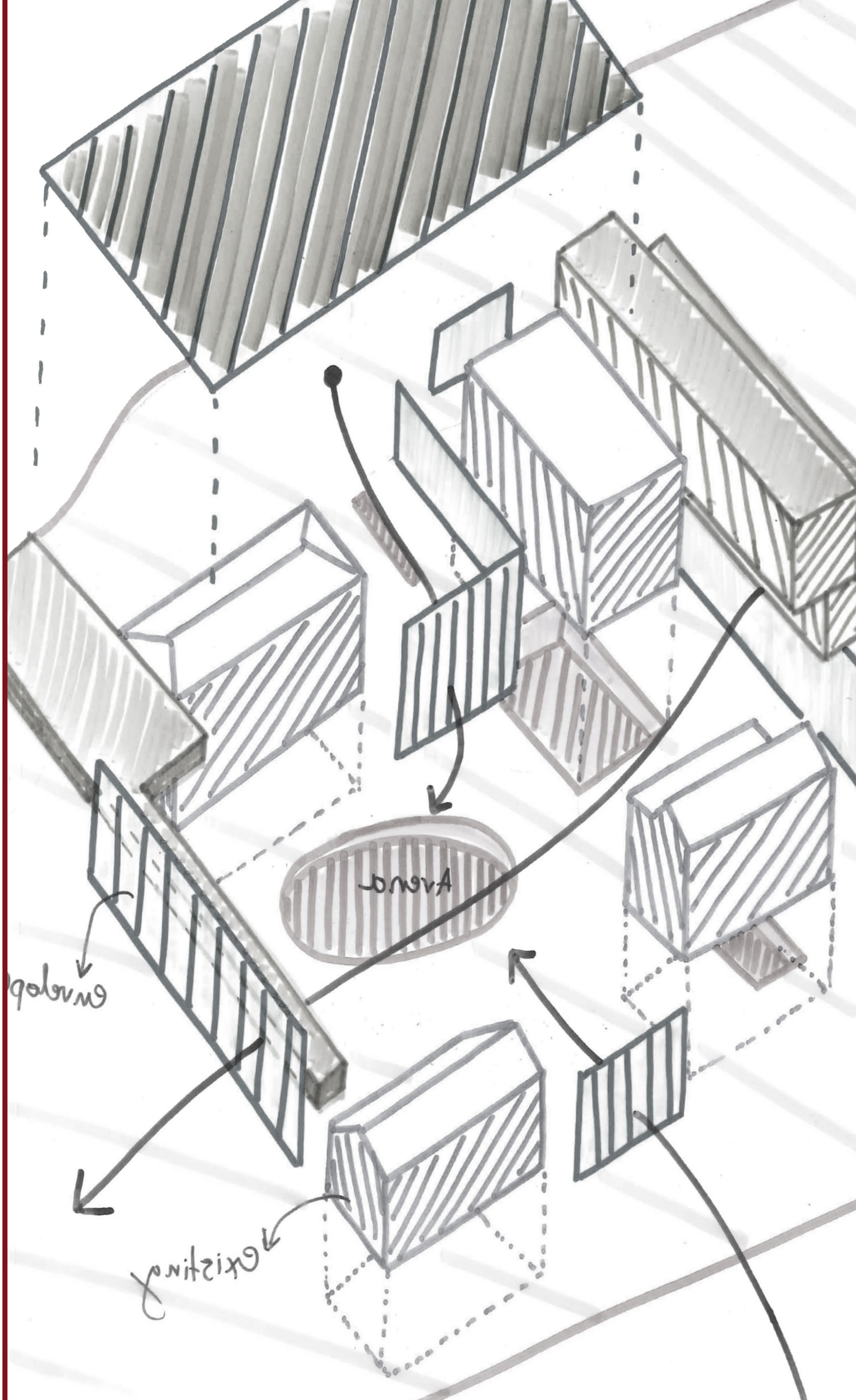
West facade

The Schoolyard.





- The **school-yard space** was always shaped and activated by the objects in study, as being a place where **educational and community gatherings** with **ceremonial and festive character** were taking place.



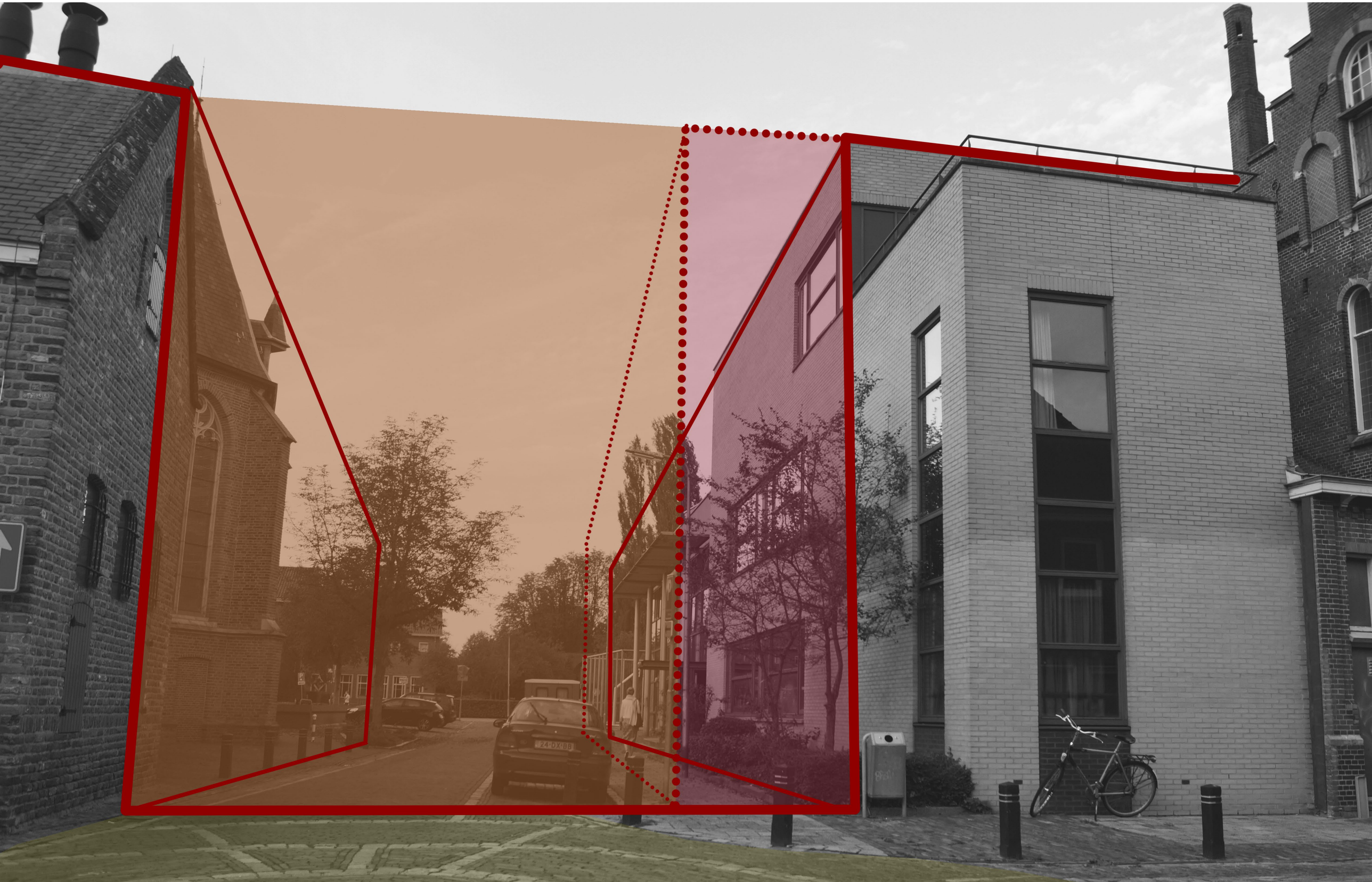
Towards a design strategy.

On-Site observations.

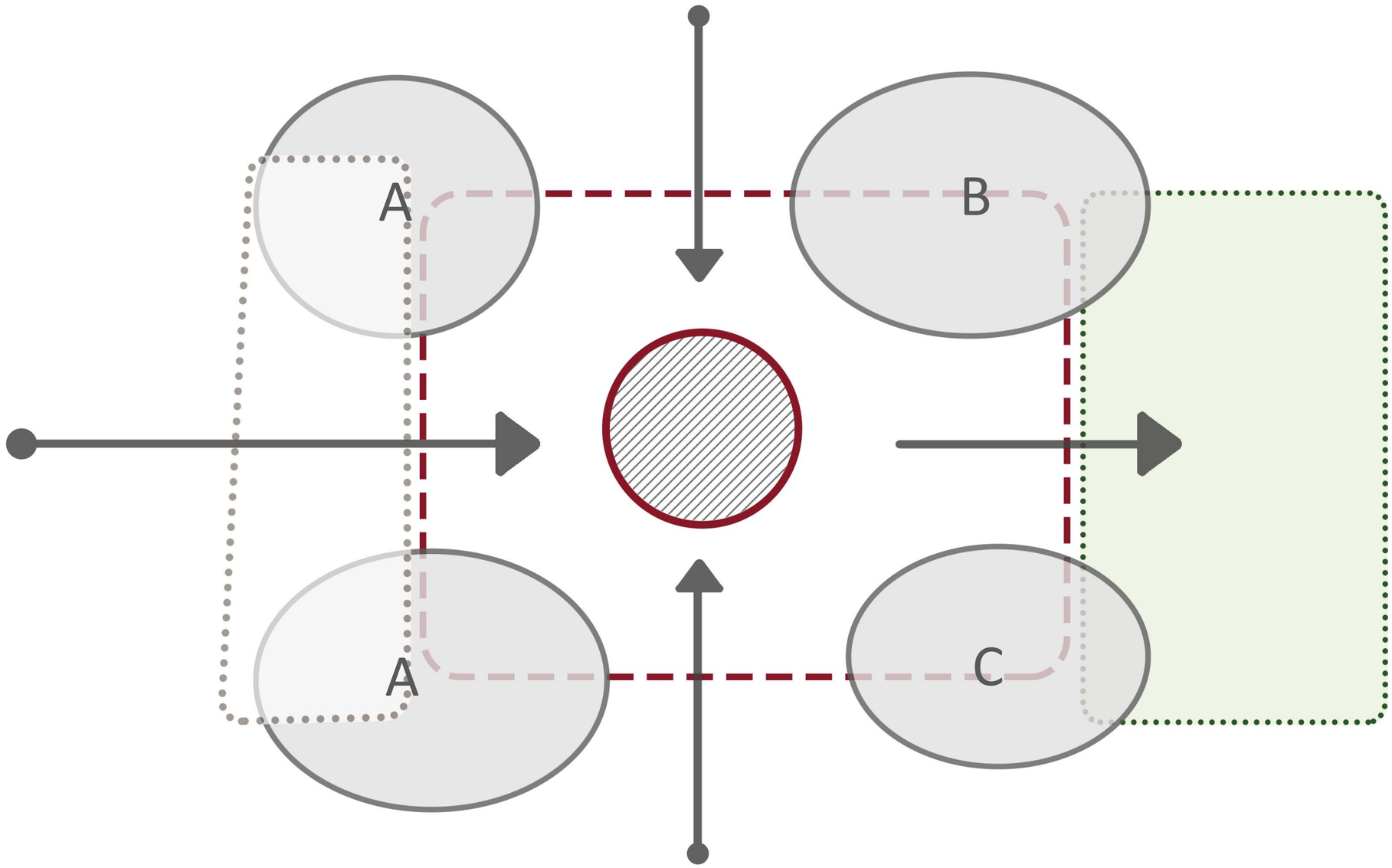
VS

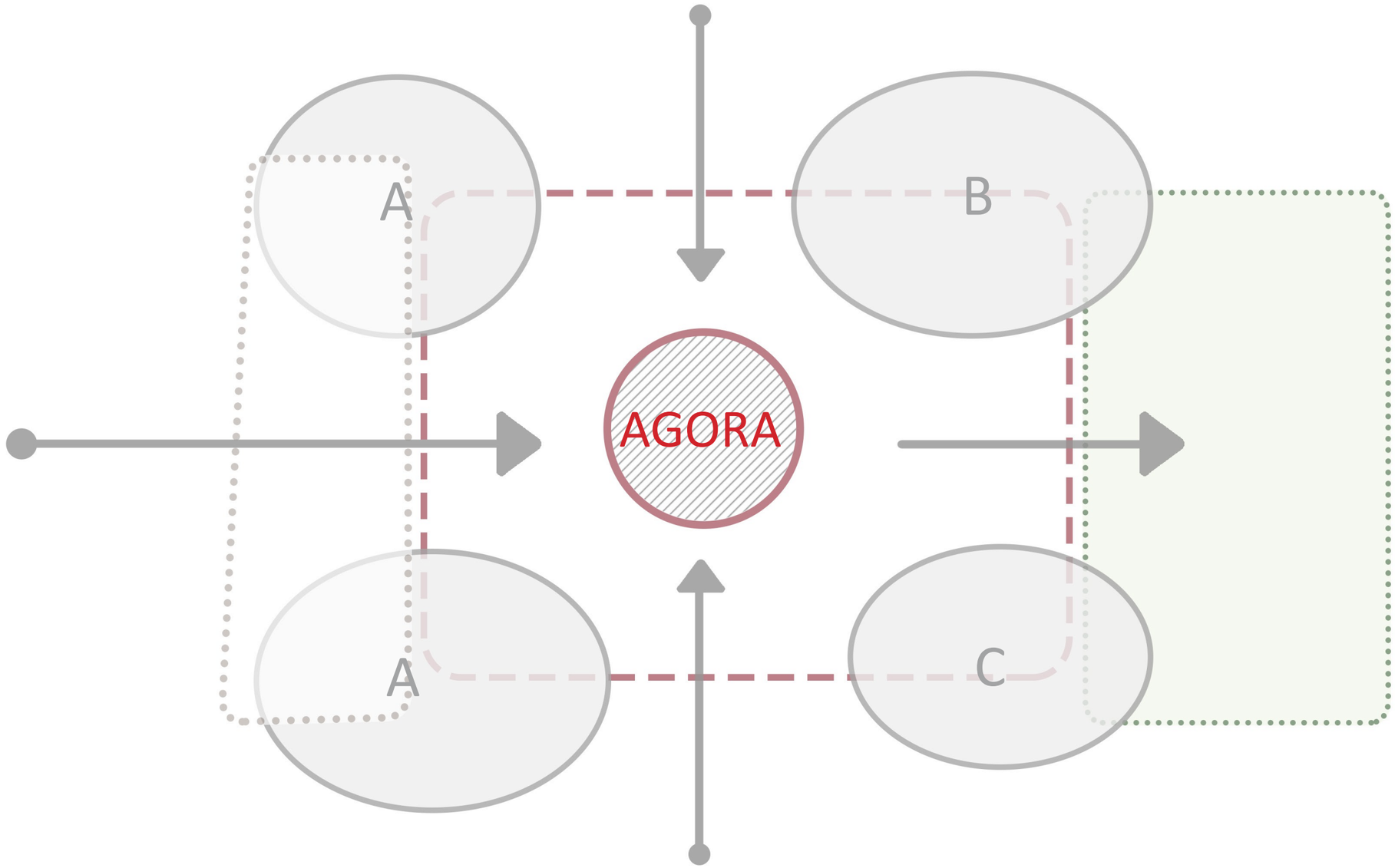
future use
future use
Residential
Residential
Church
extension
Private garden
30m
60m
90m

A tighter enevelope.



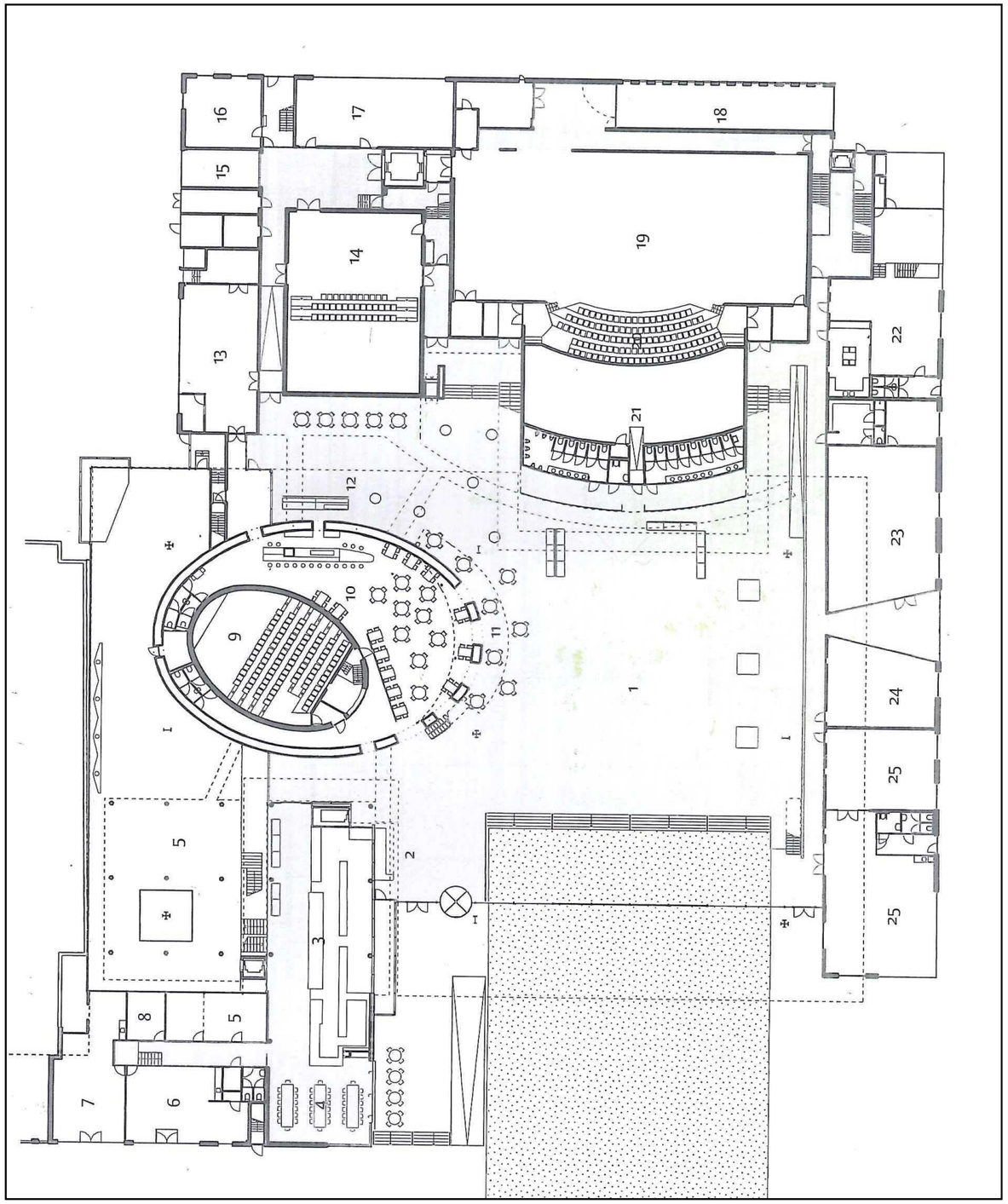
A spatial concept.




A
B
AGORA
A
C

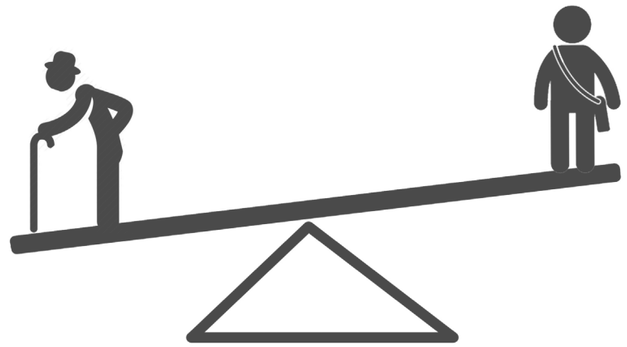
An evolving prototype.

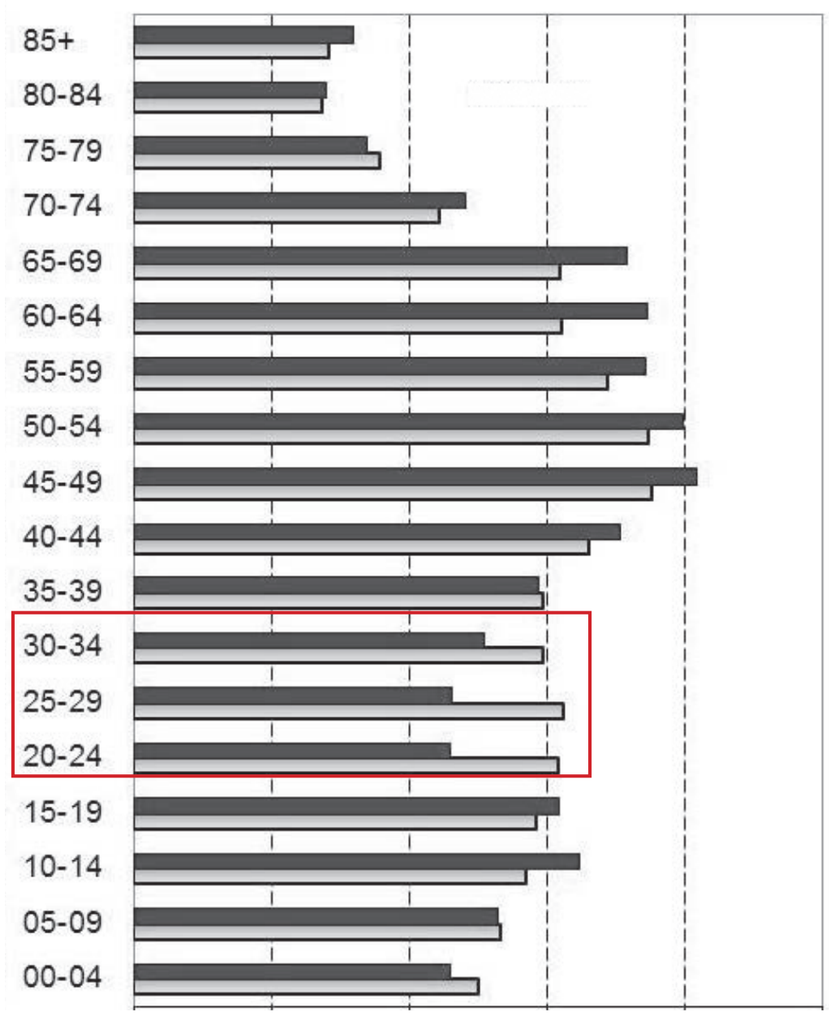
The Athenian archetype/ 6th century BC.



De Meerpaal in Dronten/ 1967.

Introducing a function.



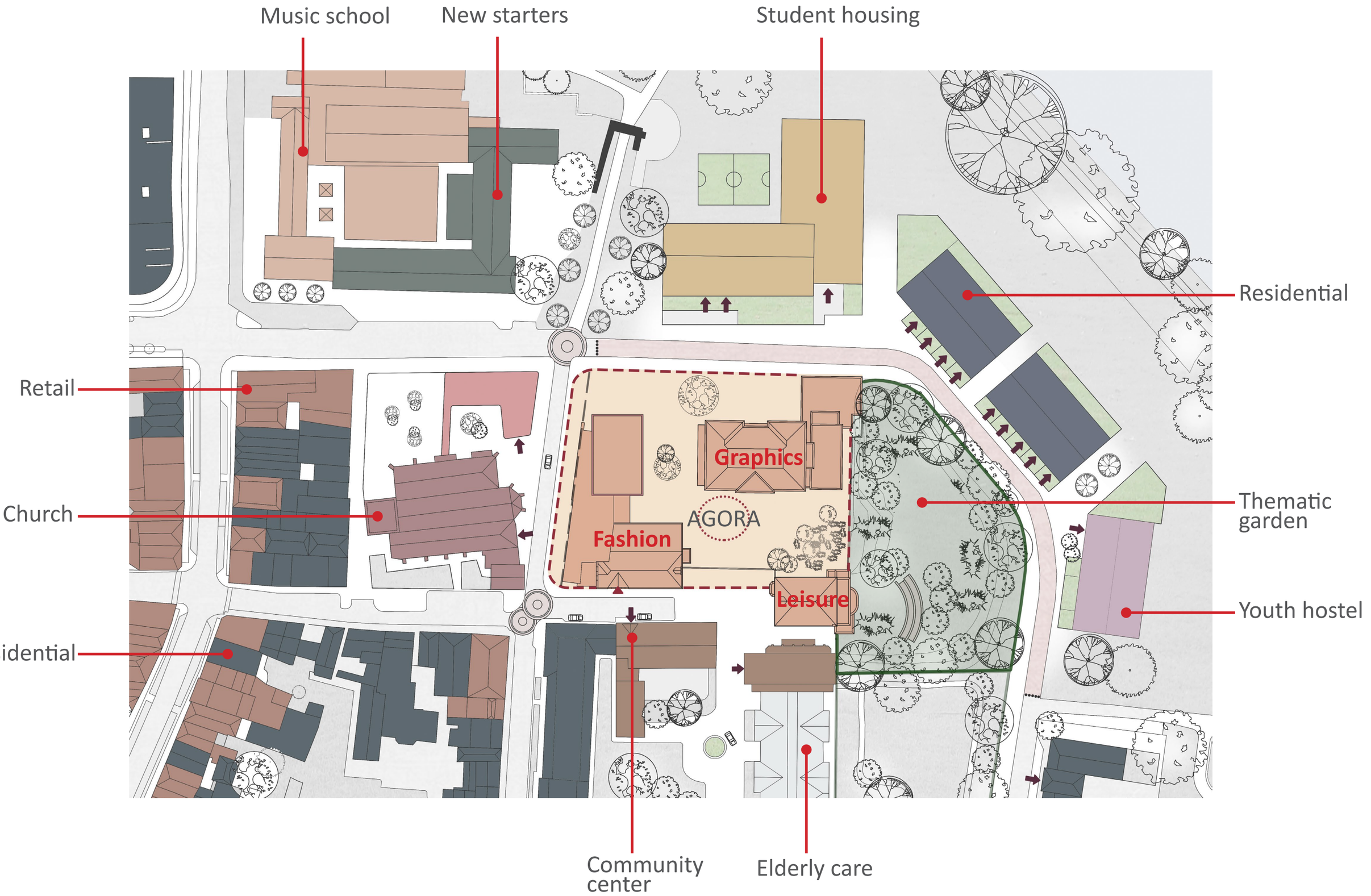


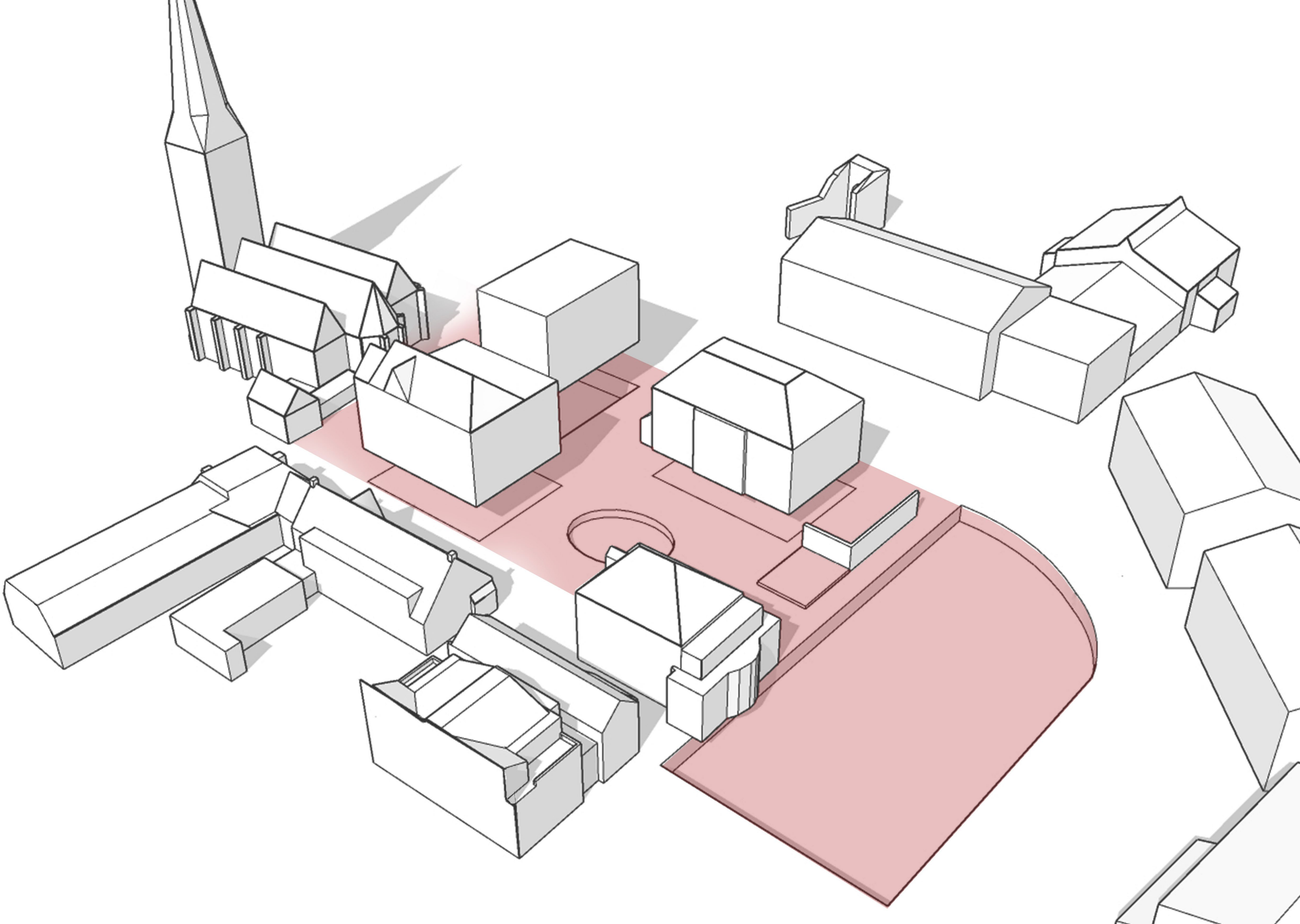
Distribution of population to age.

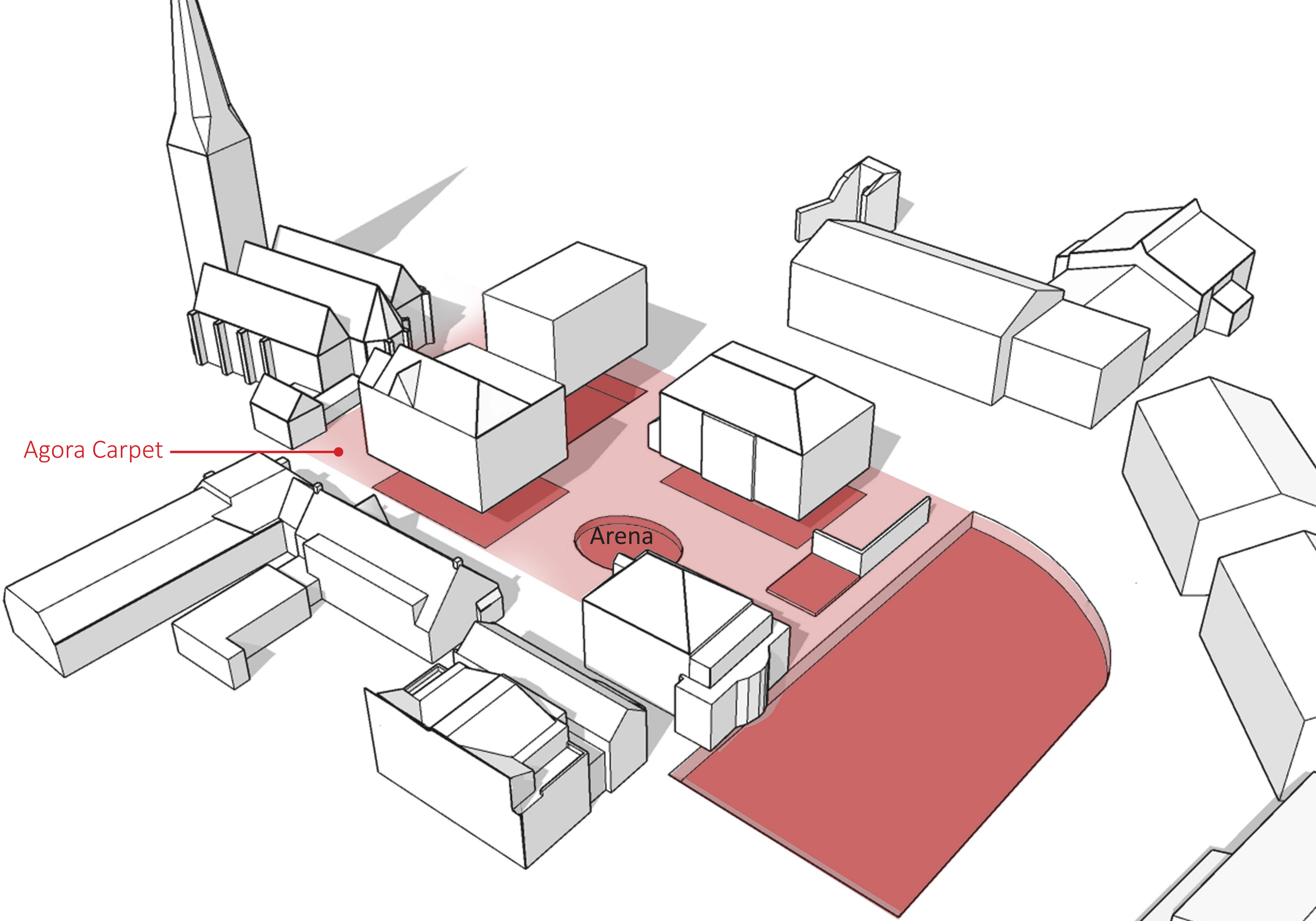
Zutphen

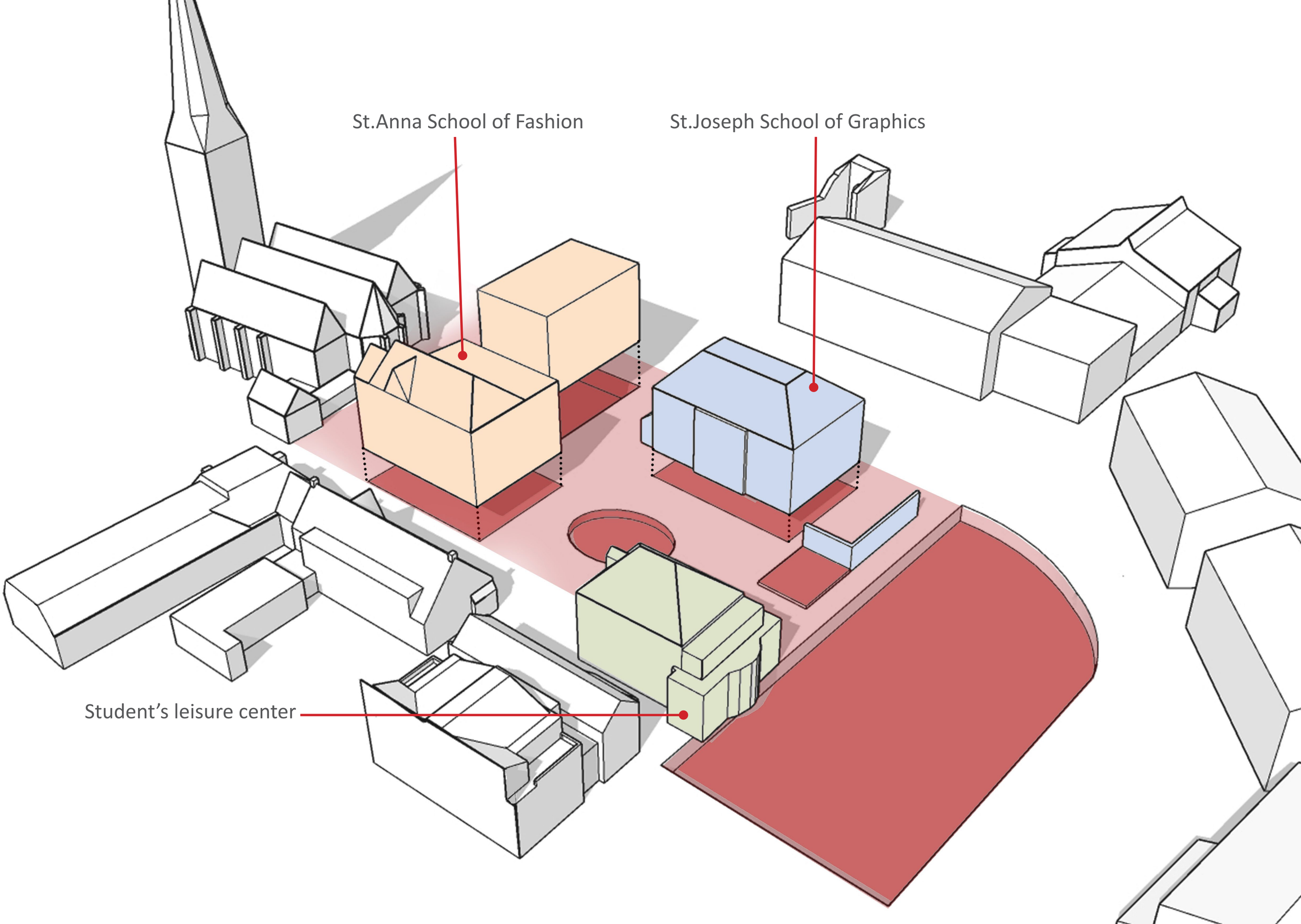
Netherlands average

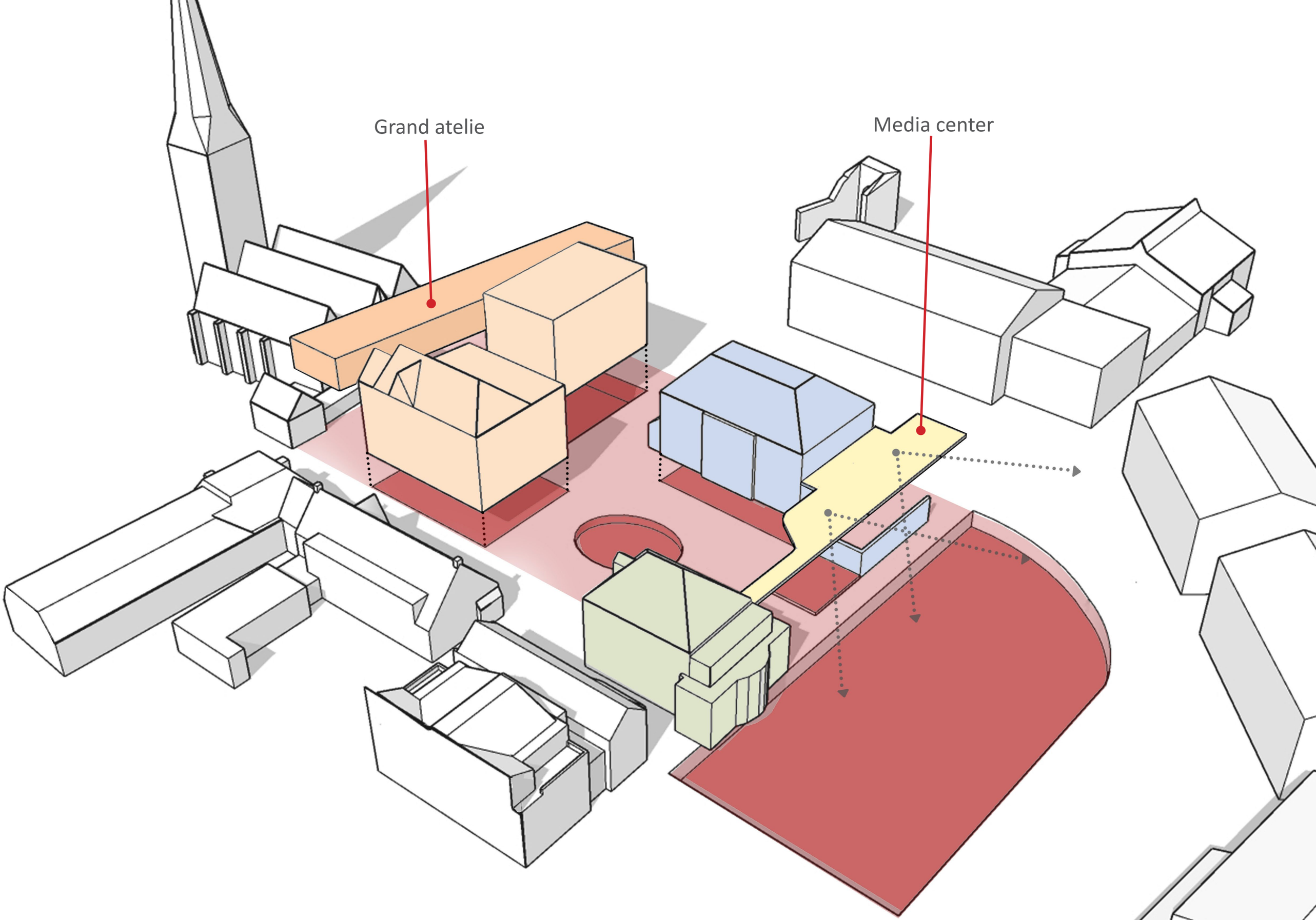
GRAPHICS
STYLE
DESIGN
CREATIVITY
ILLUSTRATION
ADVERTISING
DECORATION
IDEA
ART
KUNST
sterdam

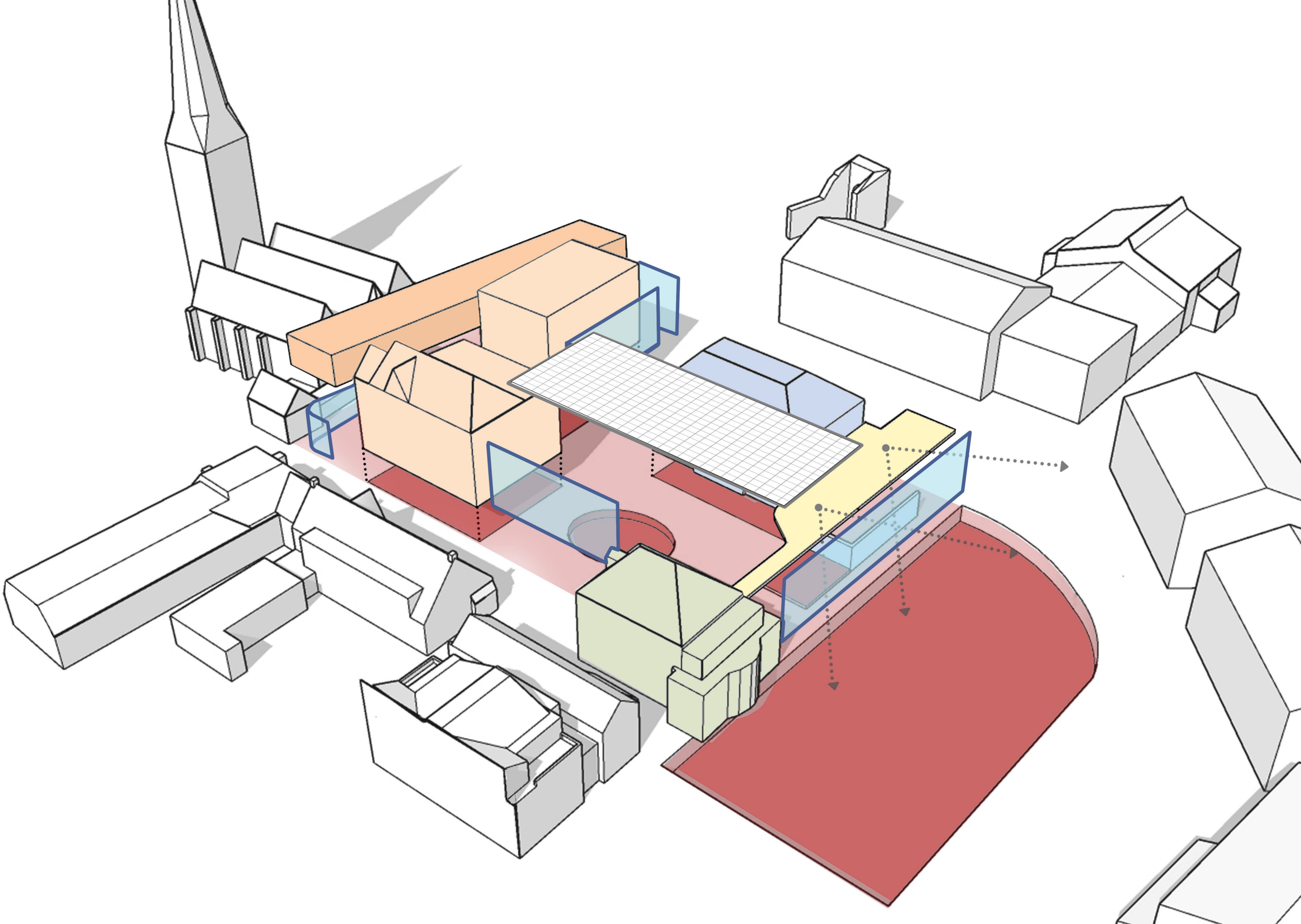

Music school
New starters
Student housing
Residential
Retail
Graphics
AGORA
Fashion
Leisure
Church
Thematic garden
Youth hostel
Residential
Community center
Elderly care

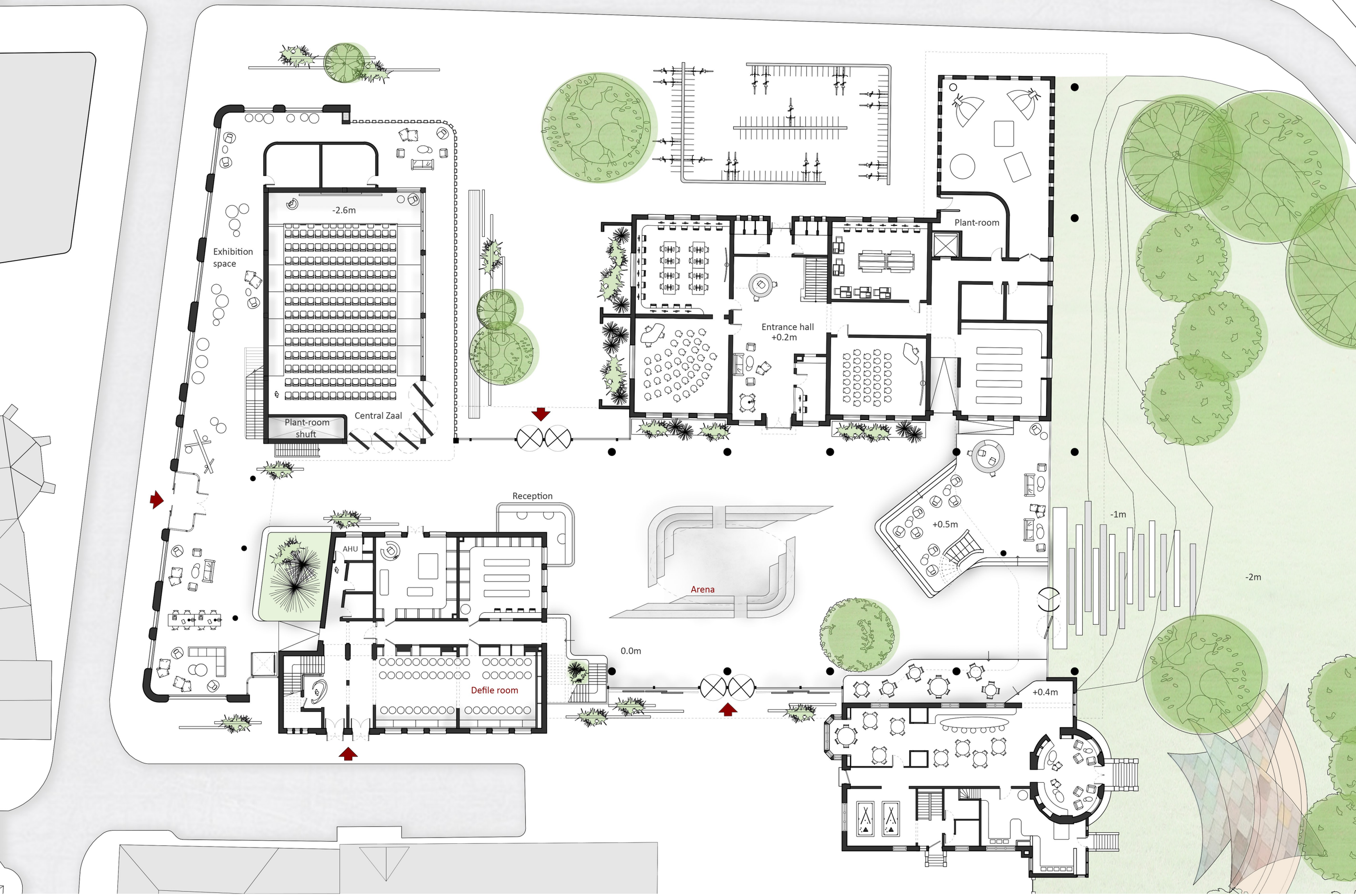



Agora Carpet
Arena


St.Anna School of Fashion
St.Joseph School of Graphics
Student’s leisure center


Grand atelie
Media center





Ground floor plan.

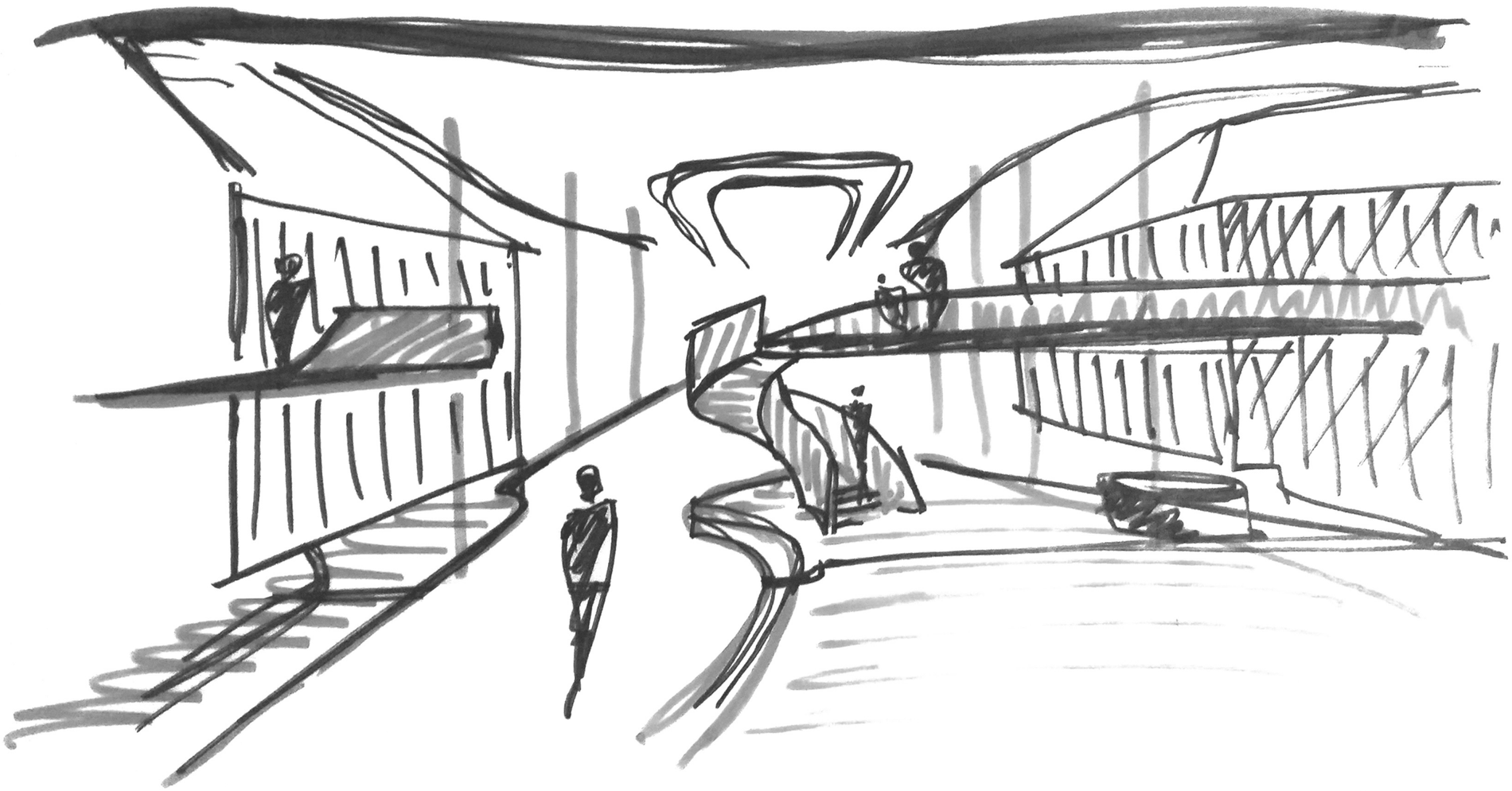
Upper floor level.

5m 10m

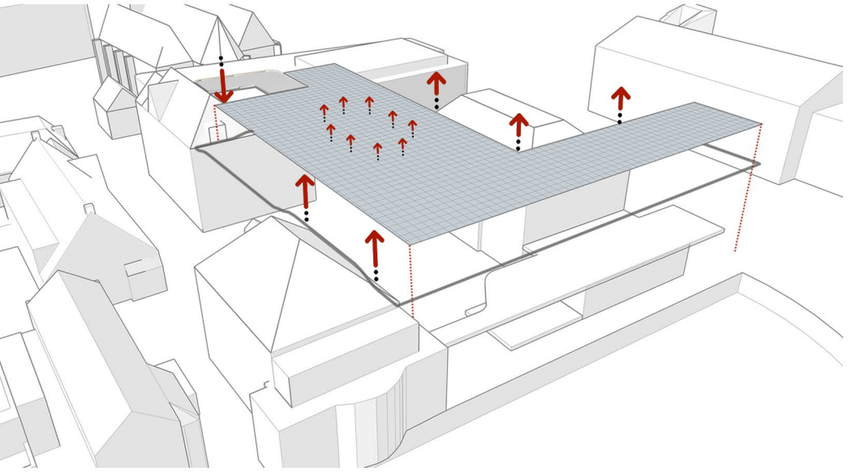
Attic/mezzanine level.

5m 10m

Roofing the Agora.



Canopy form finding.



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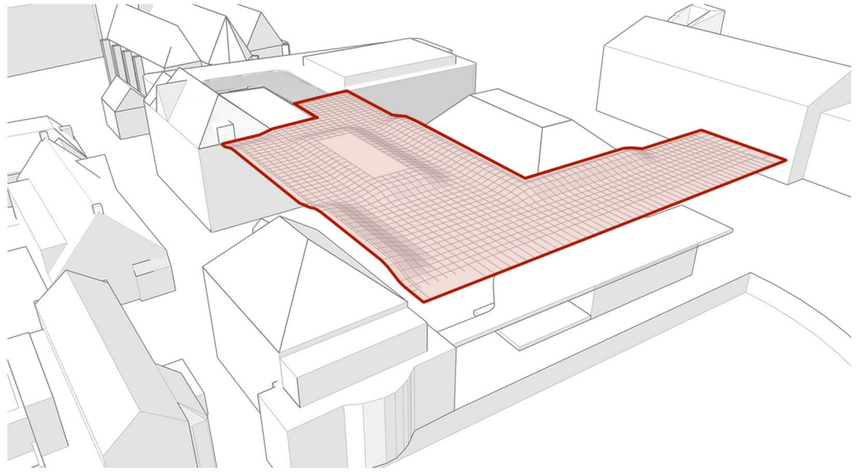

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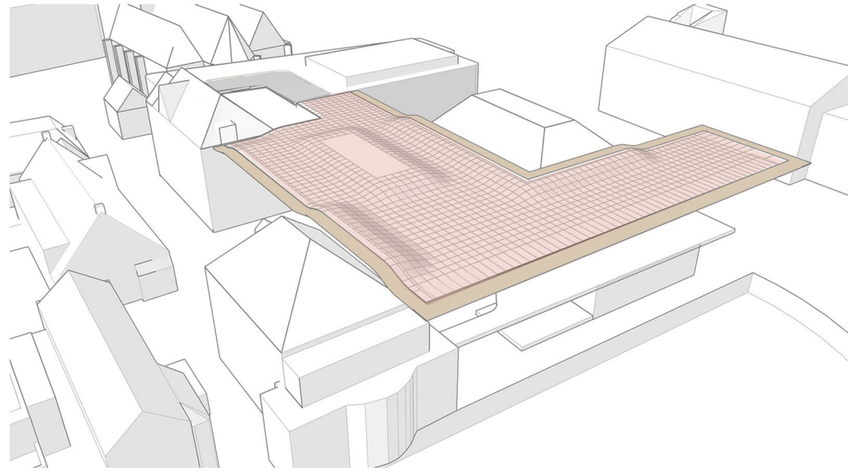
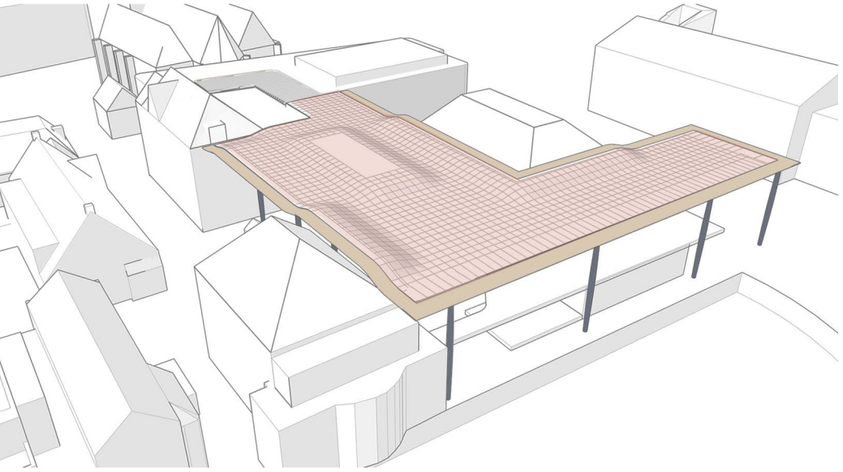


3.



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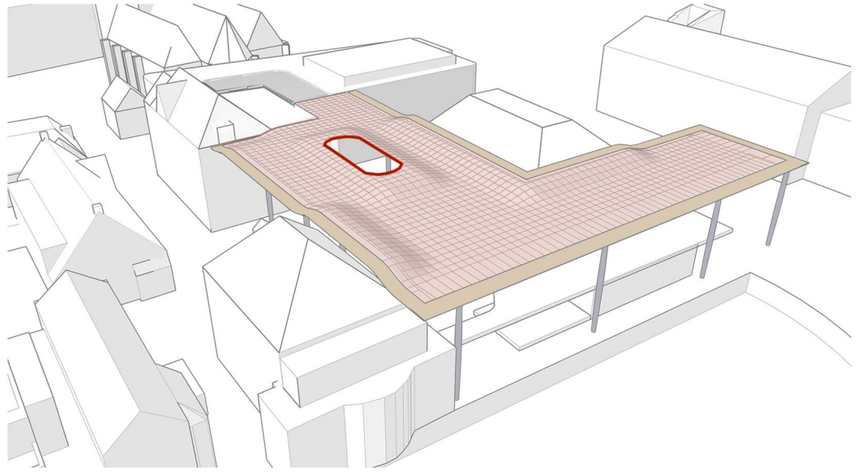

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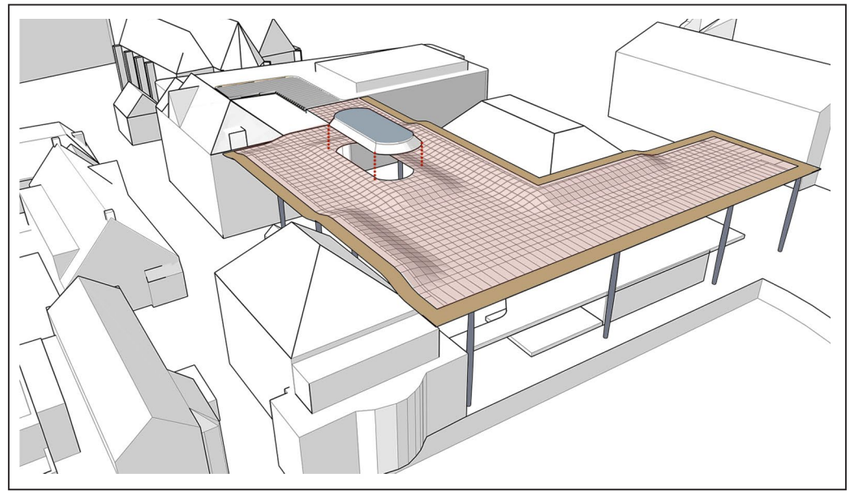
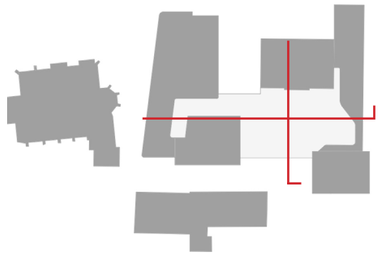


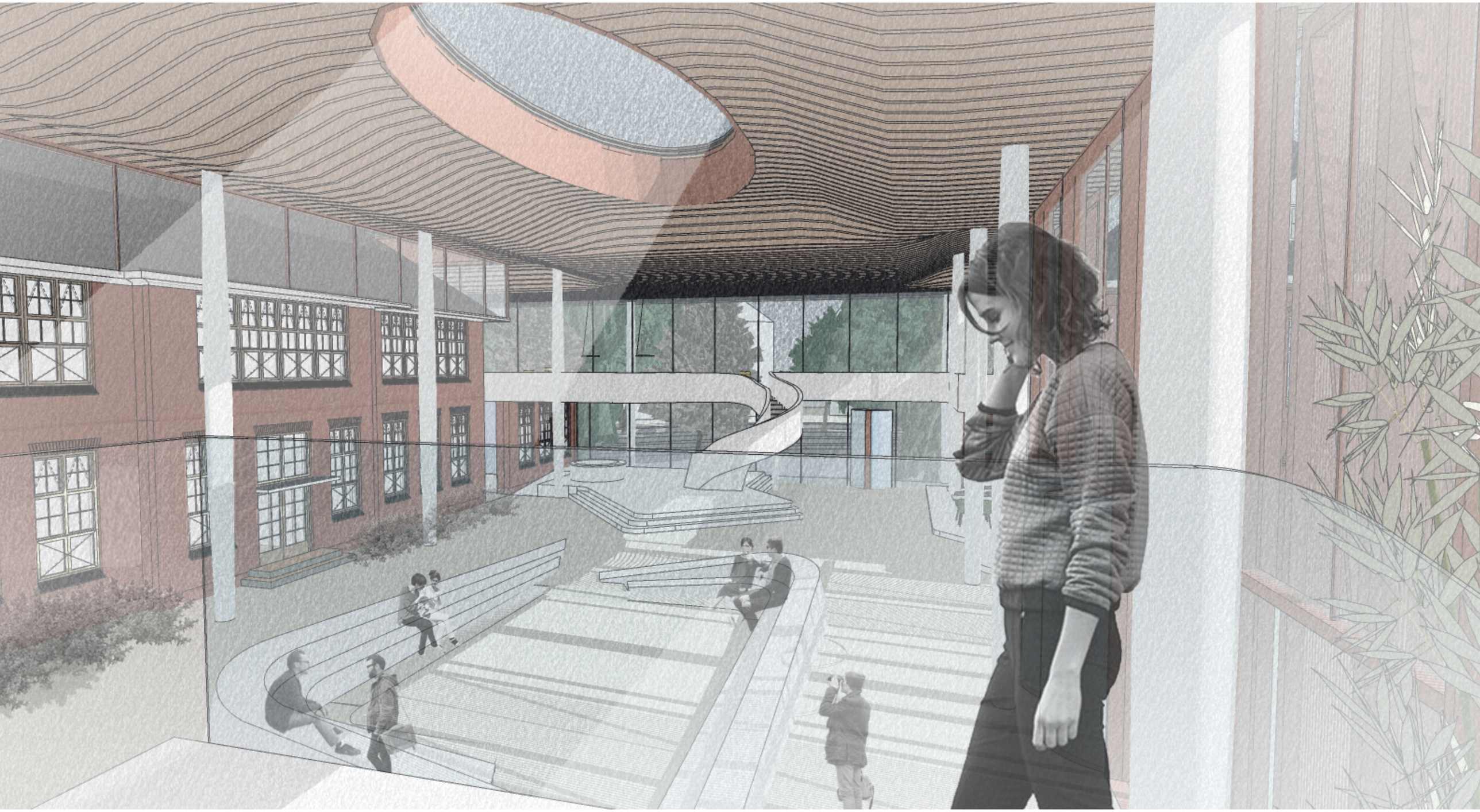
6.

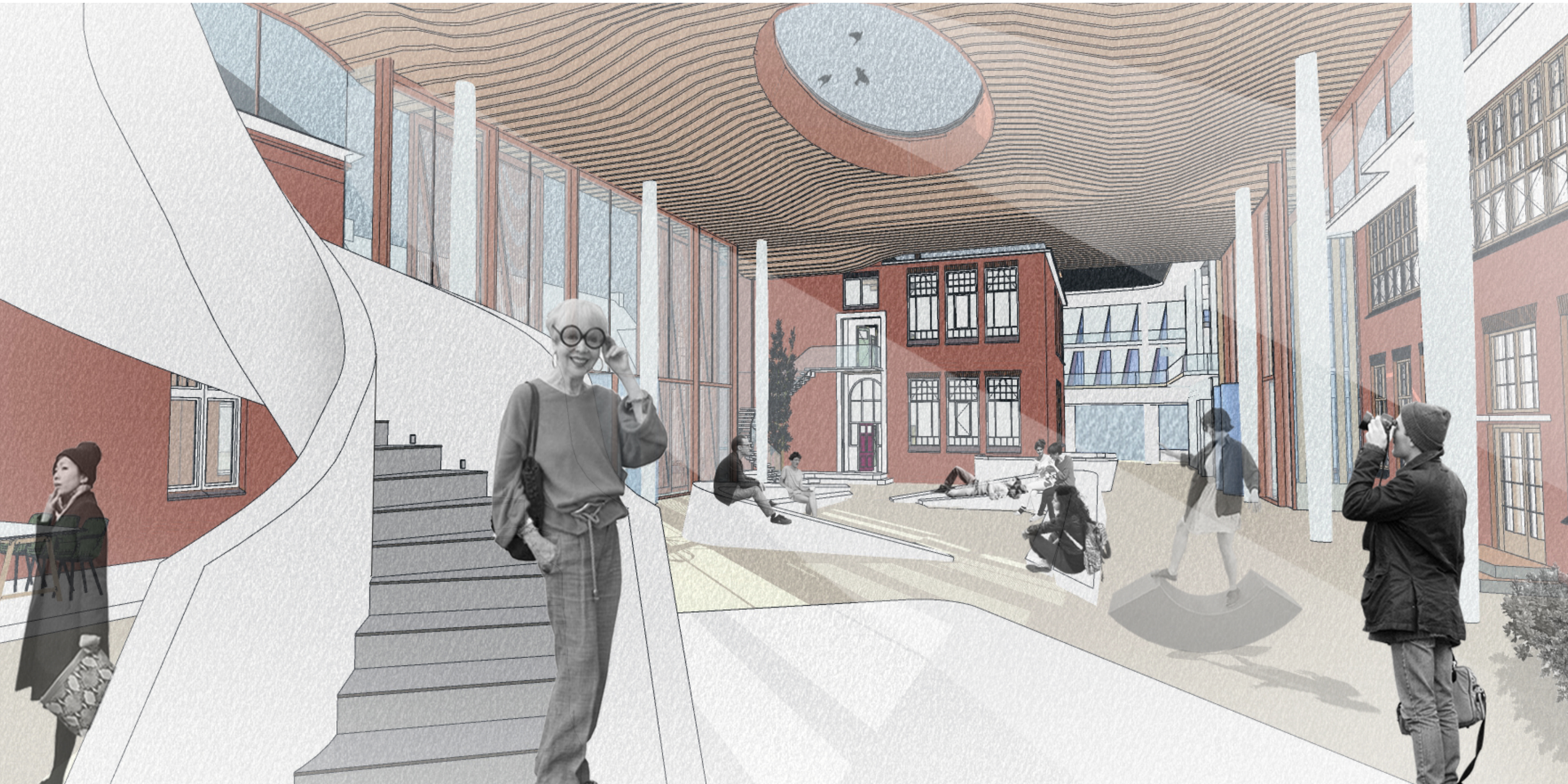
Design proposal.



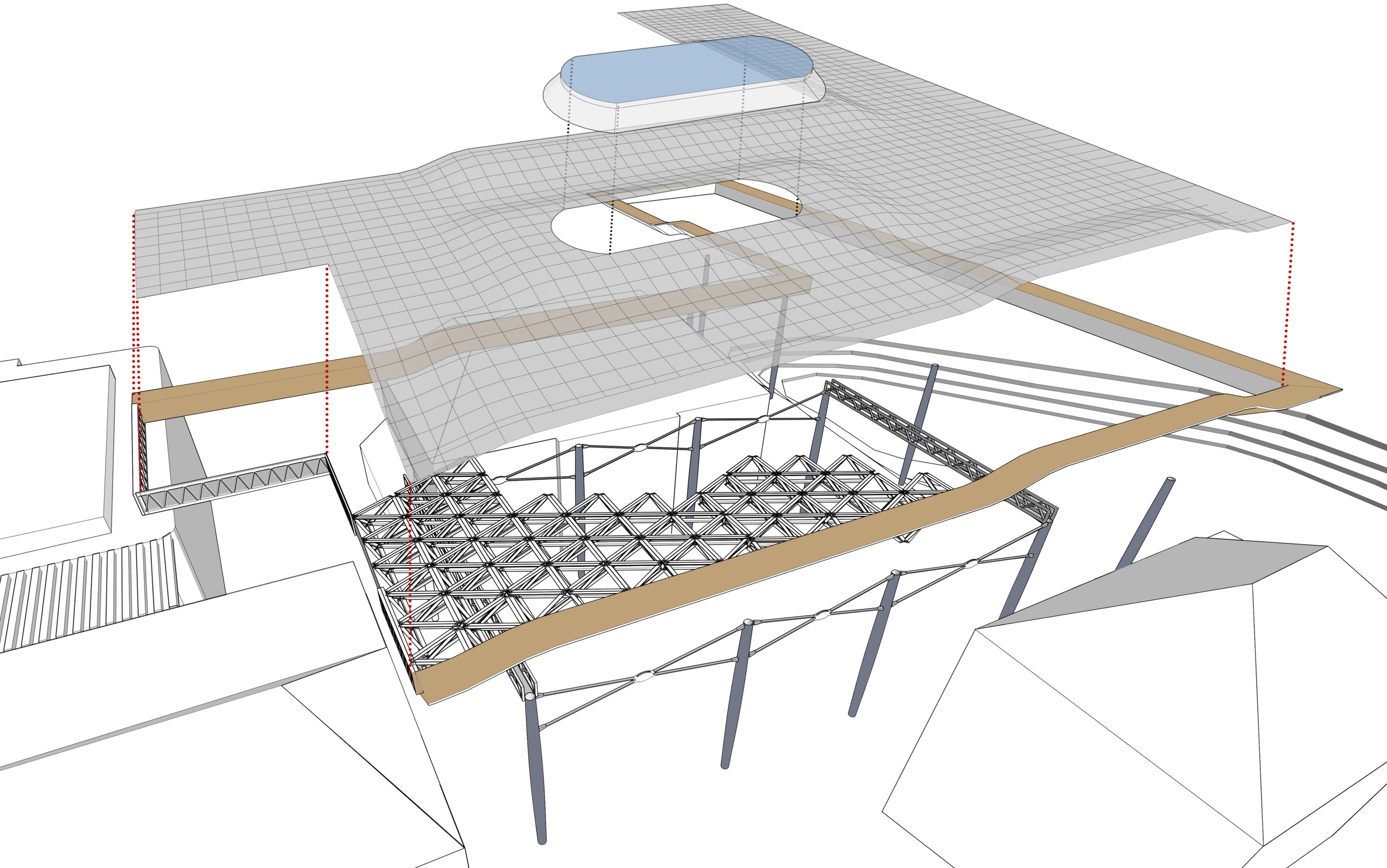
0 1 2.5 5 10

Scale 1:200 @A3





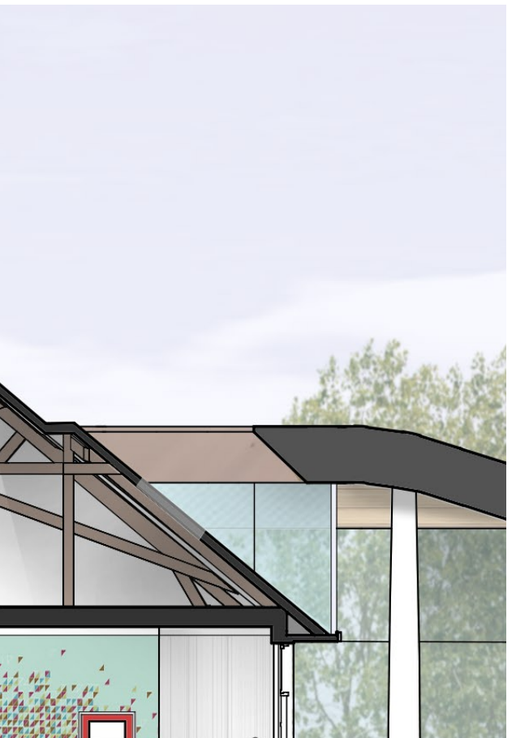
Structural scenario.



Roof plan.

5m 10m

Connecting with St.Joseph.



100mm ceramic tiles cladding
20mm wooden supporting bars
2mm waterproof membrane
20mm wooden supporting bars
20mm plywood planks finishing
90mm thermal insulation layer
120mm thermal/acoustic insulation
2mm vapor check layer
15mm plasterboard layer
1mm wallpaper finishing

6mm metallic cladding layer
2mm waterproof membrane
25mm plywood supporting planks
160mm thermal insulation layer
20mm wooden plywood layer
1,110mm space truss structural system
250 acoustic/ thermal insulation
50mm interior ash roof finishing

+ 12.8 m

6mm patinated brass cladding

vibration eliminating mechanism

double glazed fixed panels

customized steel
gutter detail

+ 8.6 m

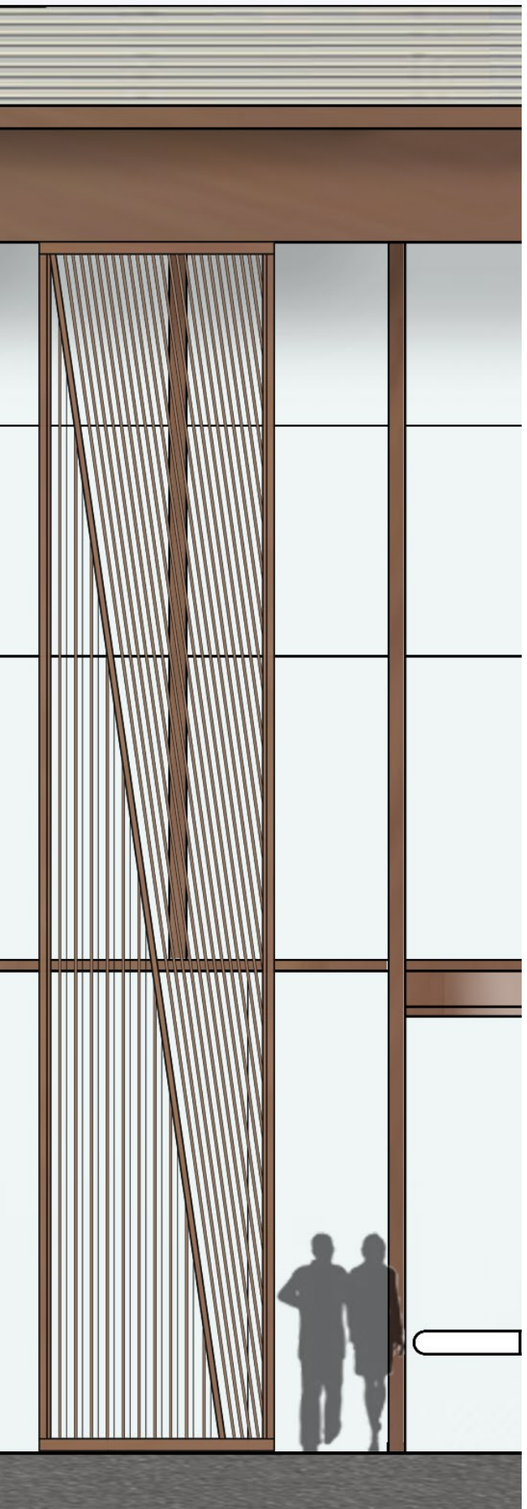
original woodwork

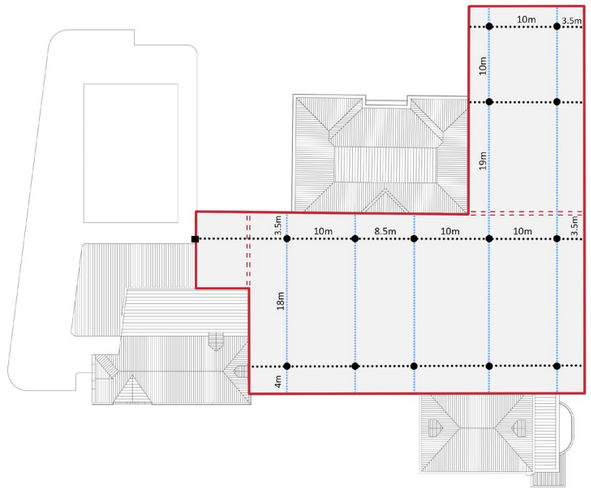
200mm acoustic insulation layer
10mm wooden cladding panels
120mm existing wooden beam

restored original single glazed windows

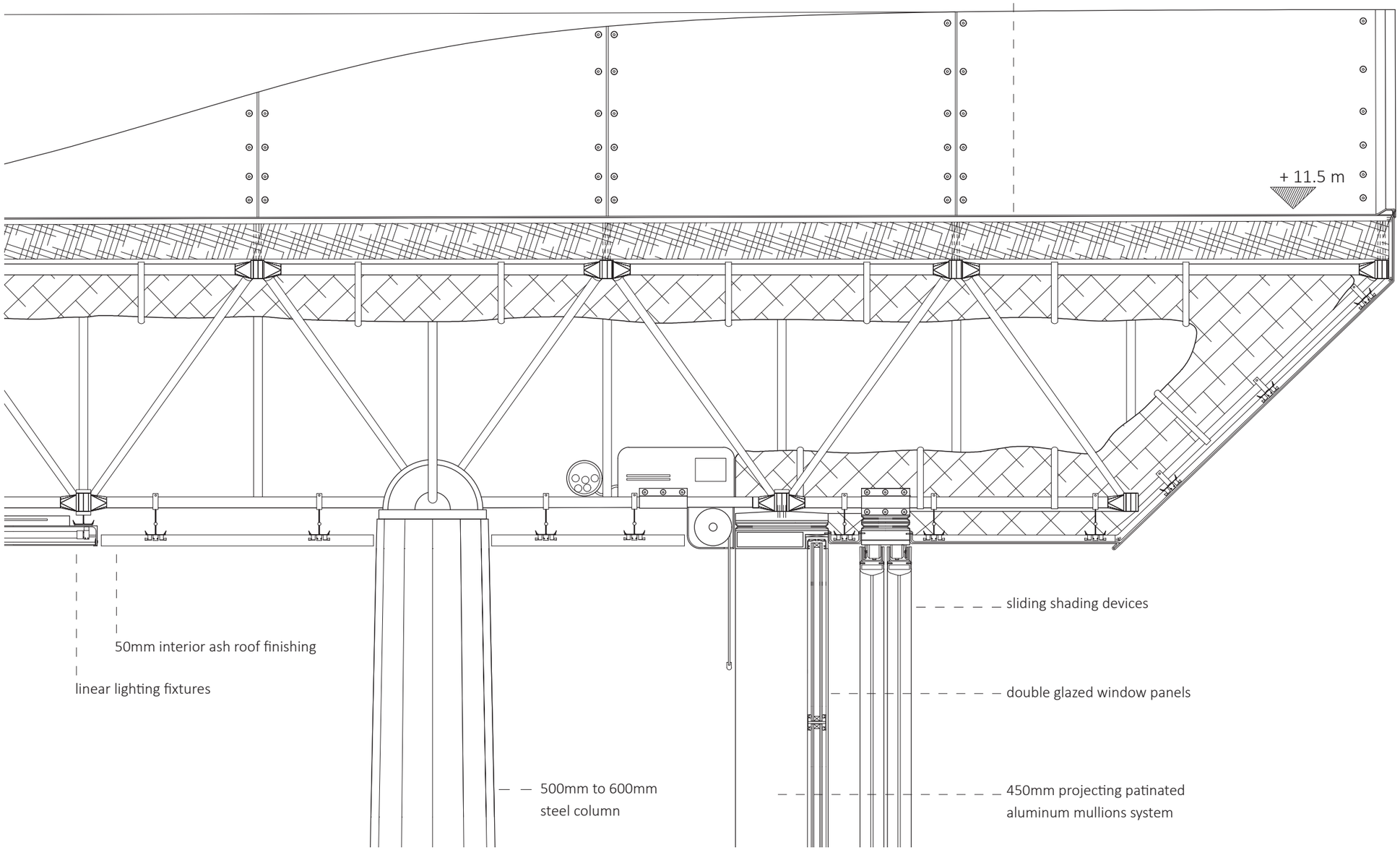
0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3



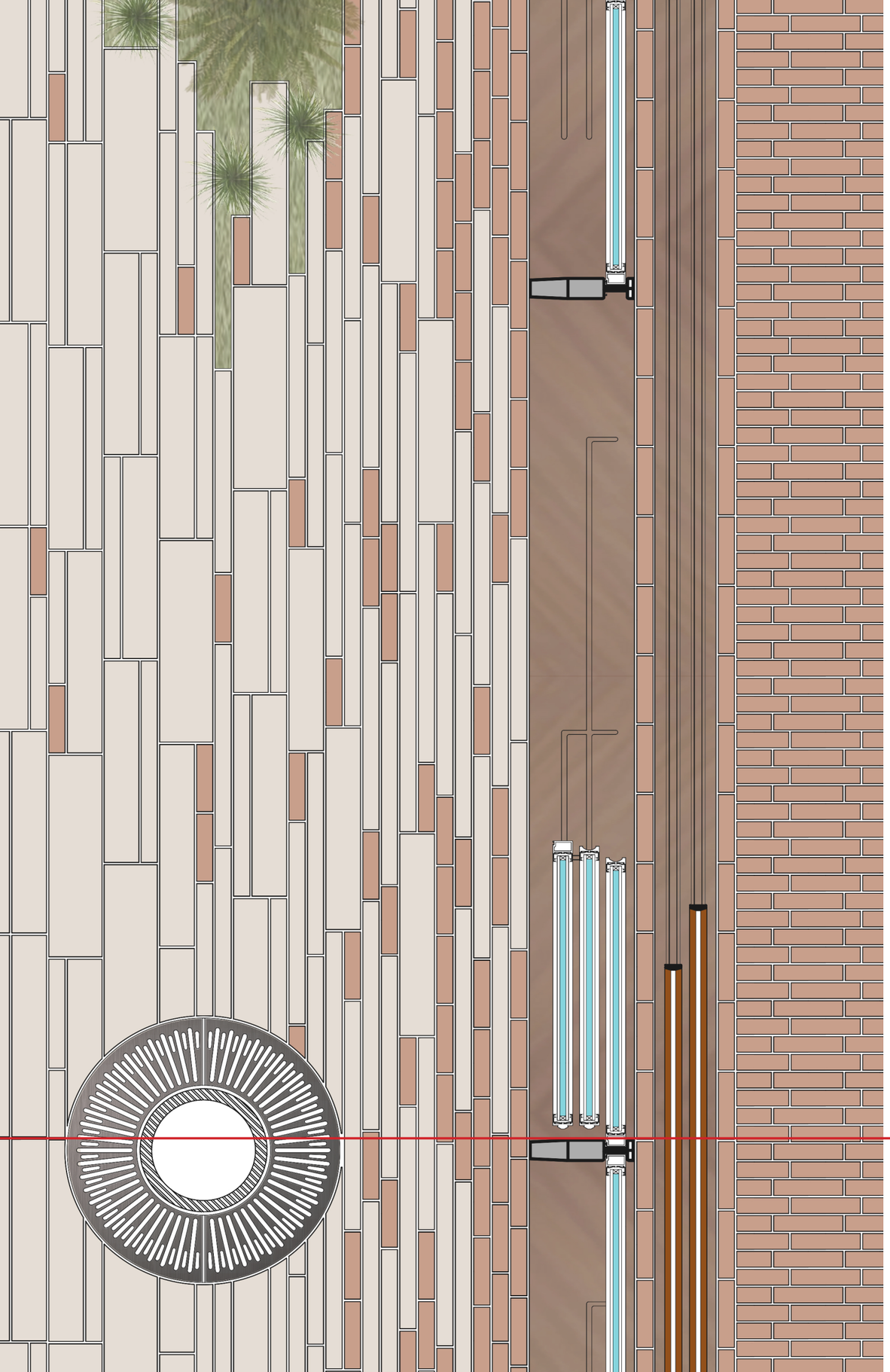


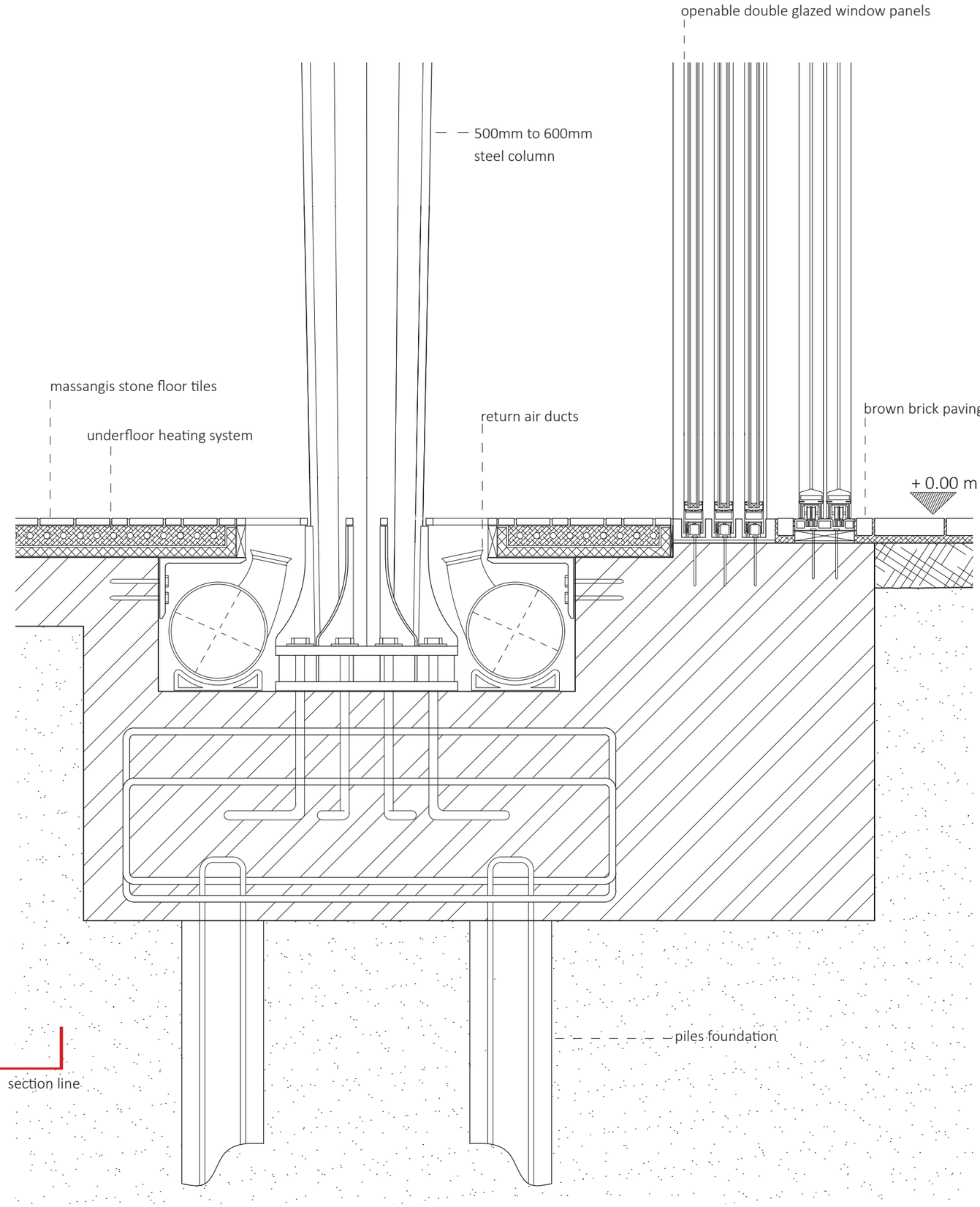
6mm metallic cladding layer
2mm waterproof membrane
25mm plywood supporting planks
160mm thermal insulation layer
20mm wooden plywood layer
1,110mm space truss structural system
250 acoustic/ thermal insulation
100mm thermal insulation layer
30mm hanging cladding support system
6mm patinated brass cladding



0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3



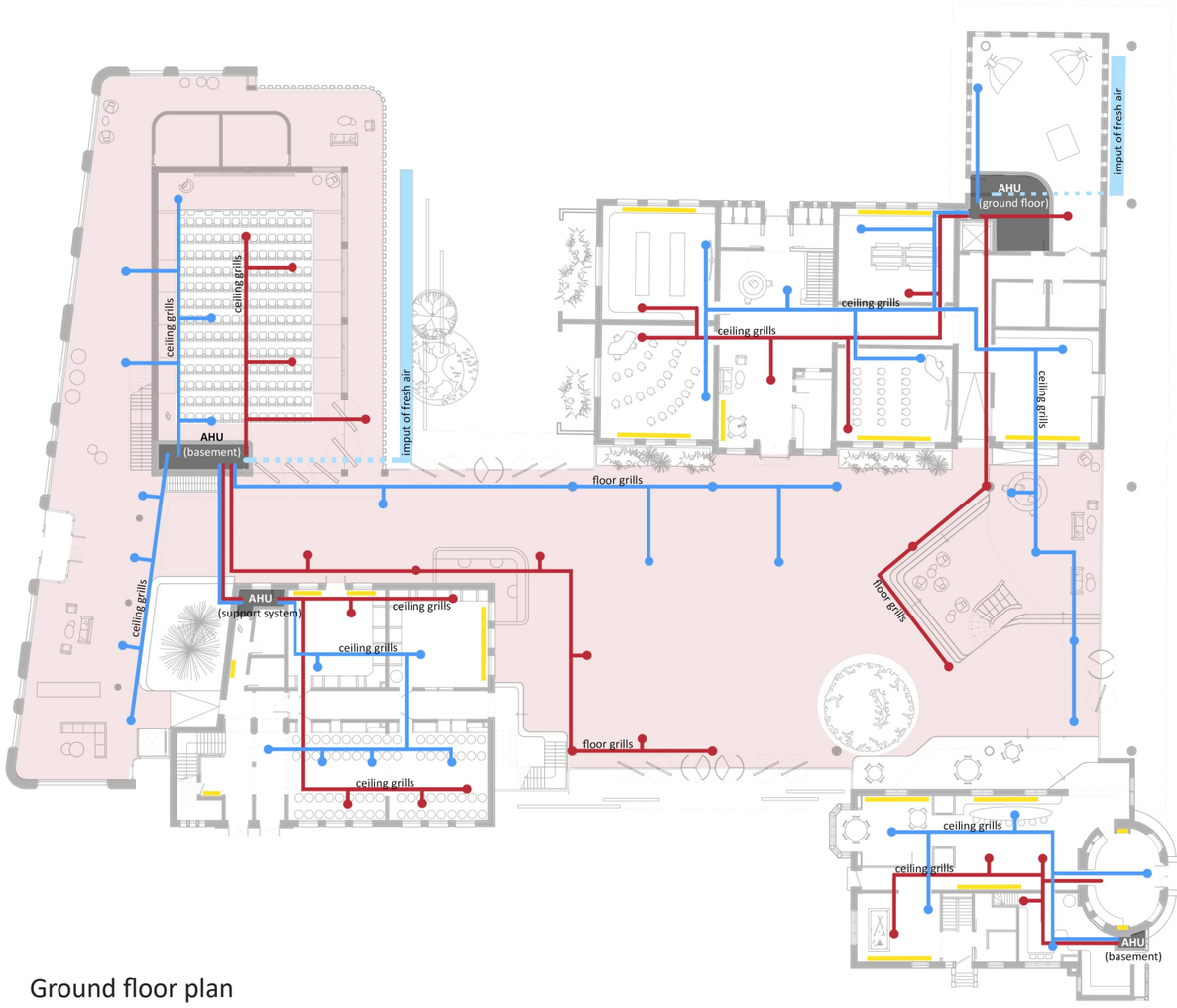


0.1m 0.25m 0.5m 0.7m 1m

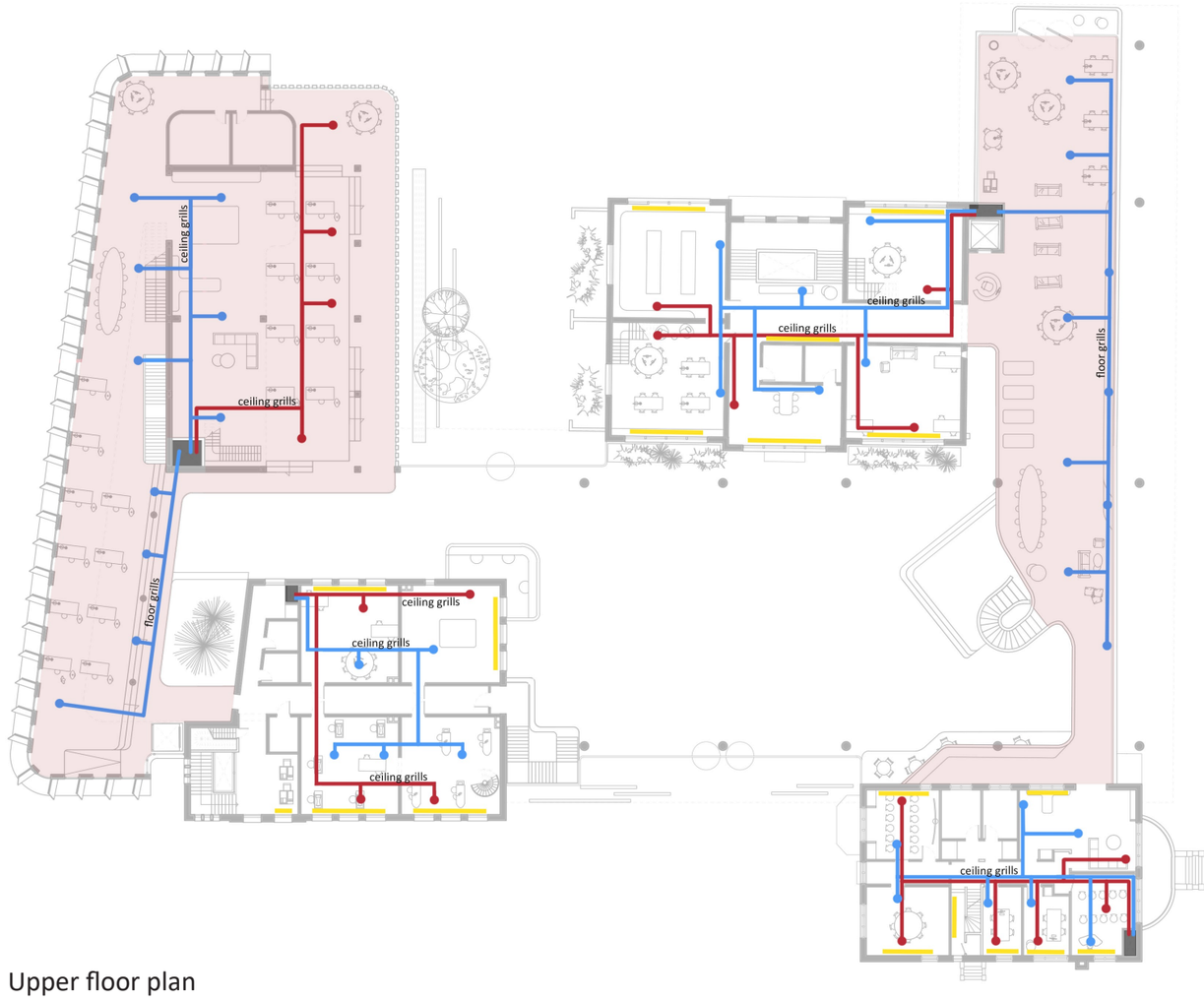
Scale 1:20 @A3

Cool weather scenario.

Mechanical climate control



Ground floor plan

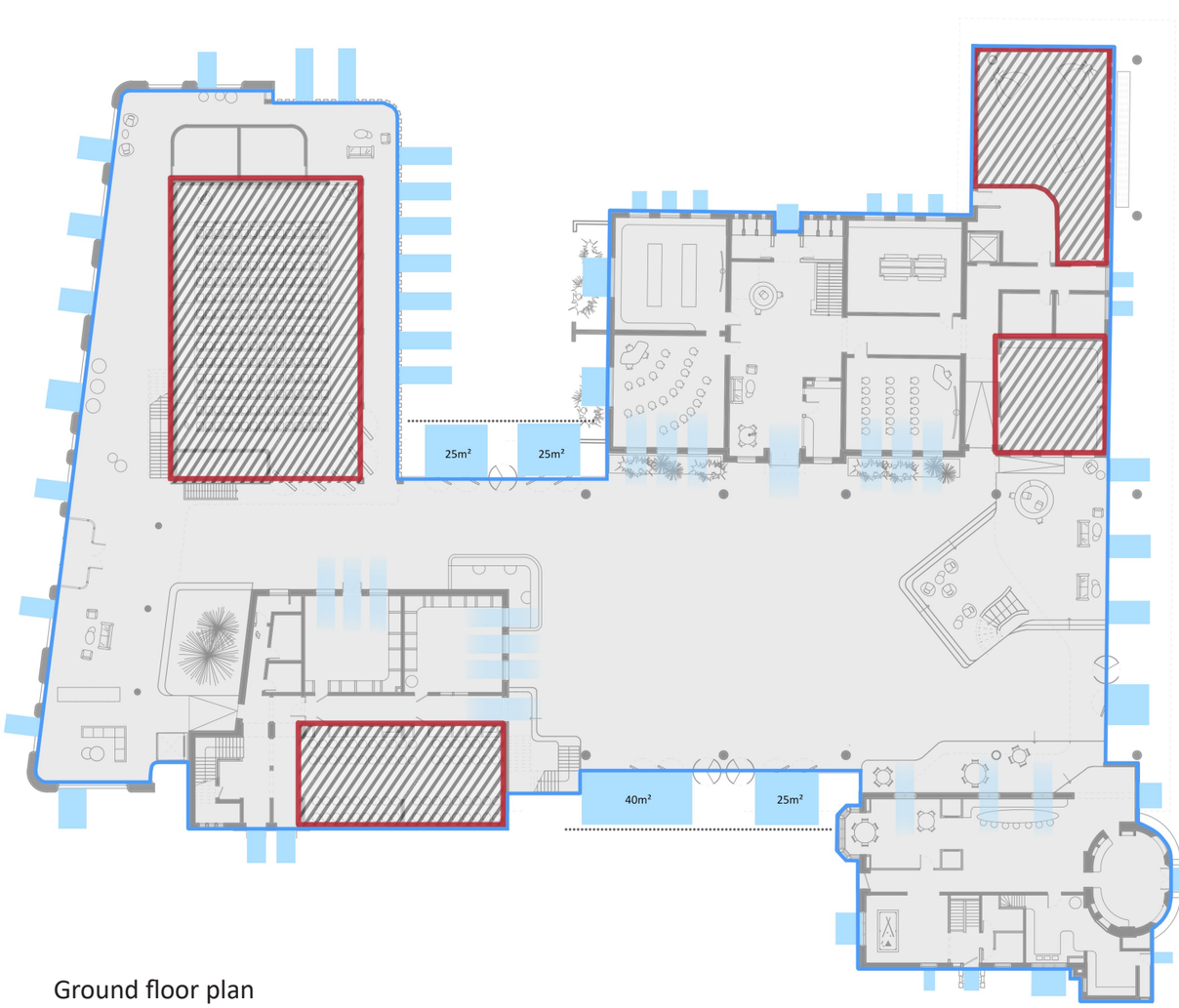


Upper floor plan

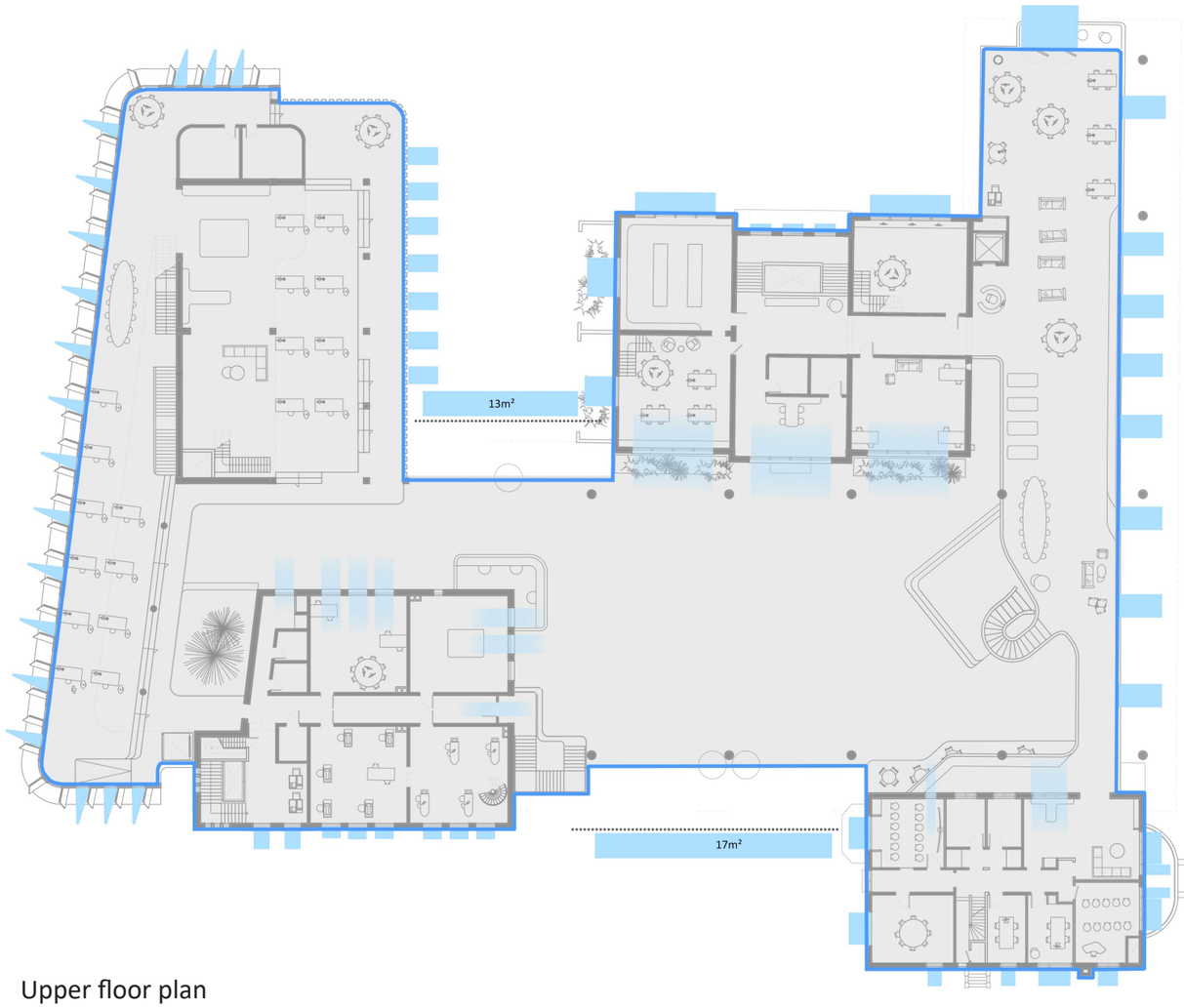
- Return air ductwork
- Supply air ductwork
- Underfloor heating system
- Air handling unit/ plant room
- Wall mounted radiators

Warm weather scenario.

Combined media climate control



Ground floor plan



Upper floor plan

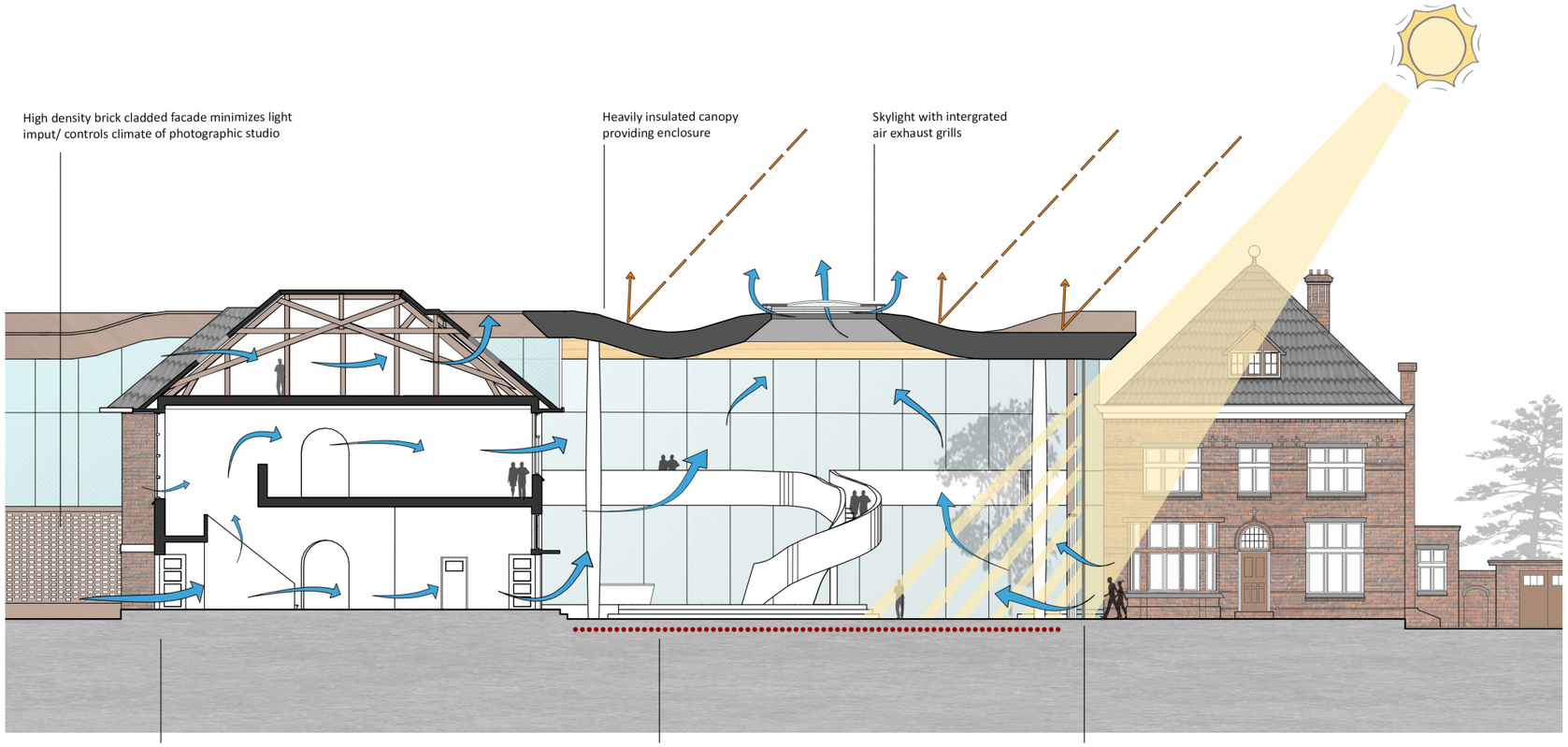
Exterior building envelope

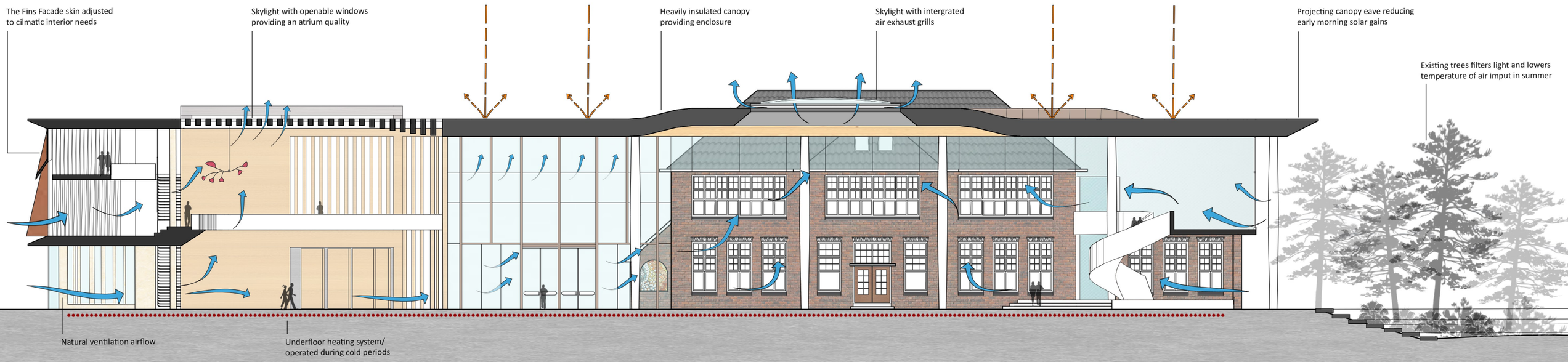
Openable windows/doors
natural ventilation sources

Opening adjacent to indoor space/
natural flow of air

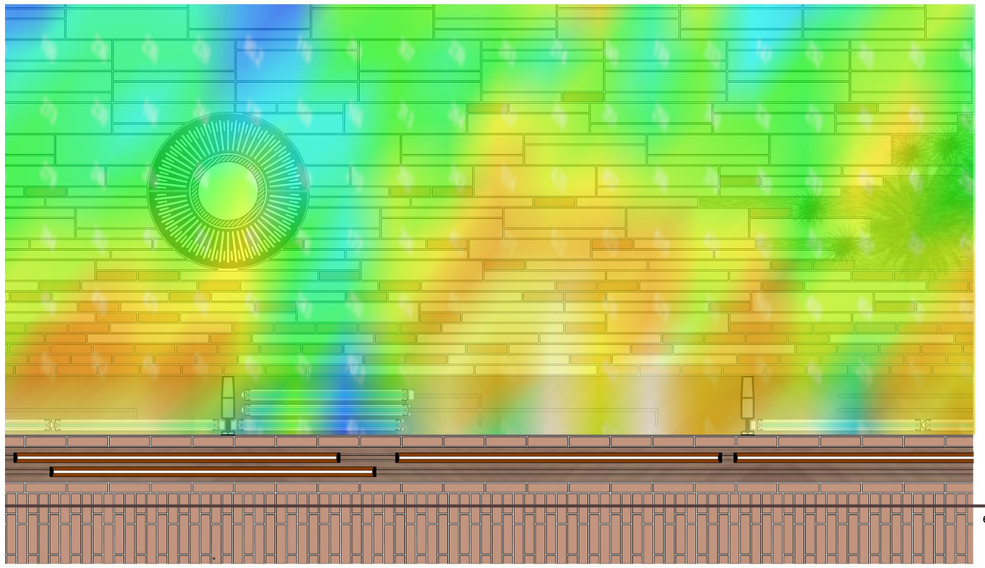
Mechanically ventilation supported space/
cooling consideration

Overall climatic strategy.





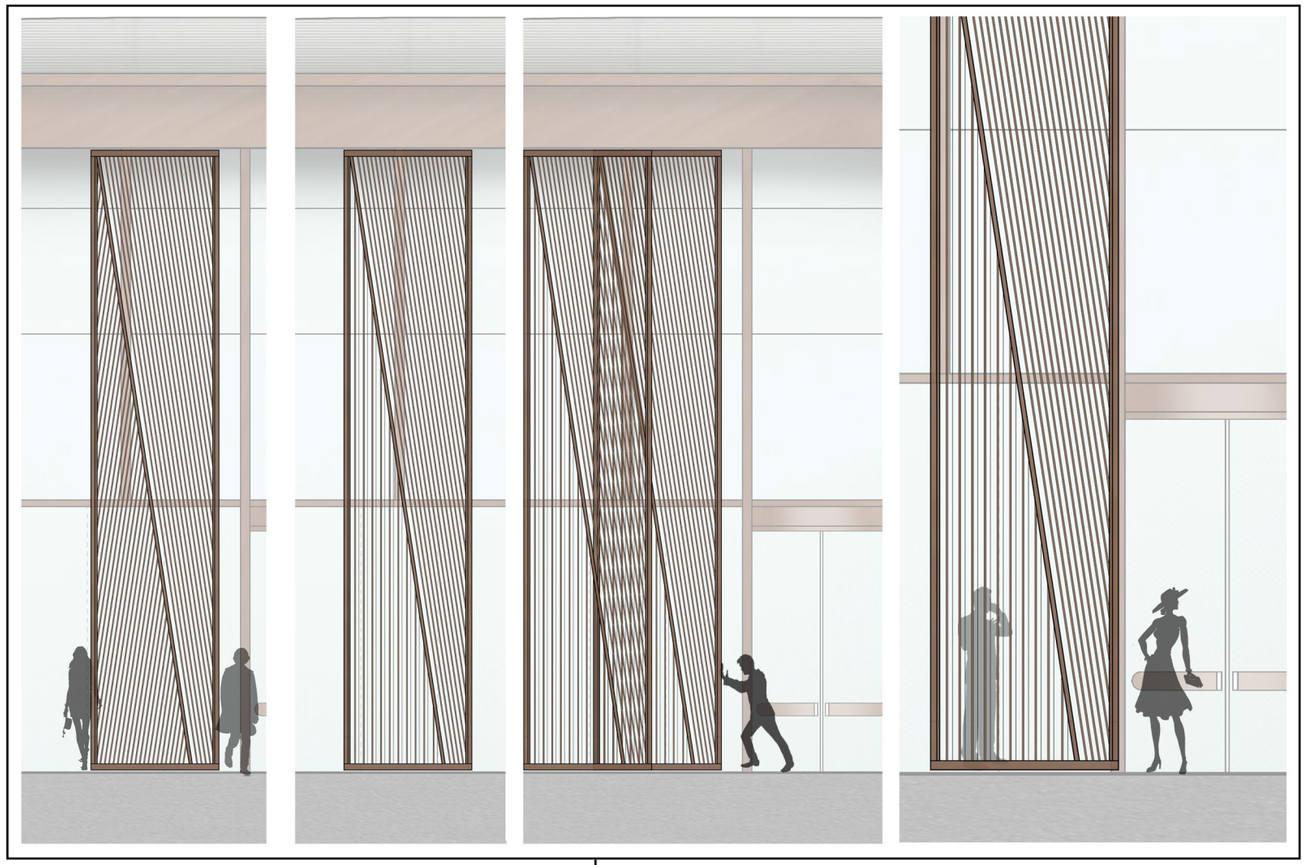
South facade shading panels.



elevation view

Average lux level close to the south facade is recorded between **500-600 lux** with the use of the shading devices.

0 lux 1200lux



Scale 1:200 @A3

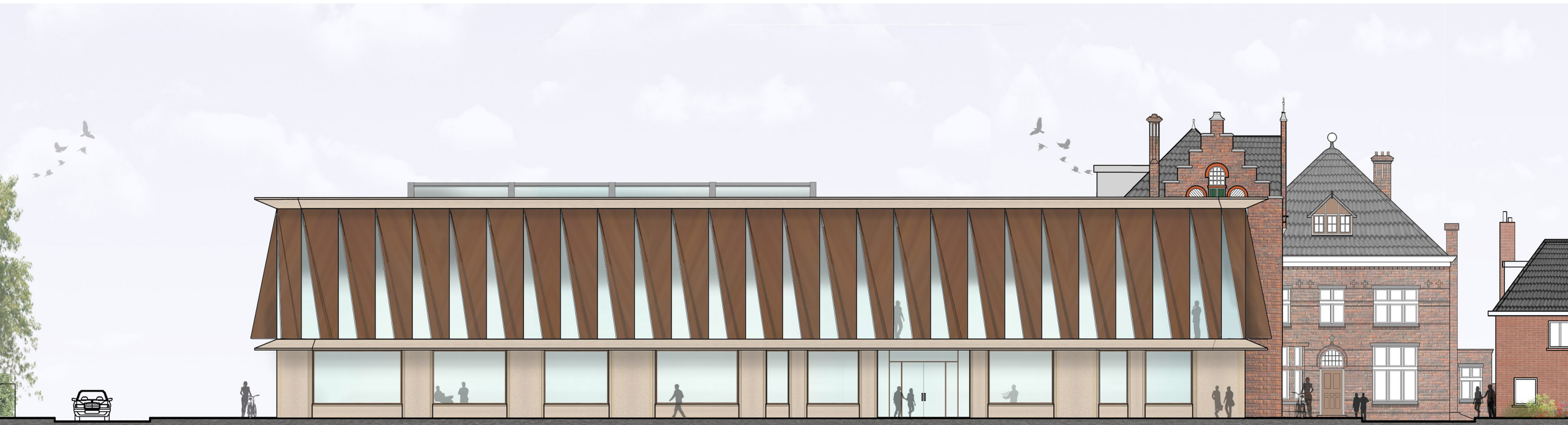
A new facade of Dieserstraat.

Learning from the context.

Haute **Couture.**

Architectural **Tectonics.**

Proposed facade.



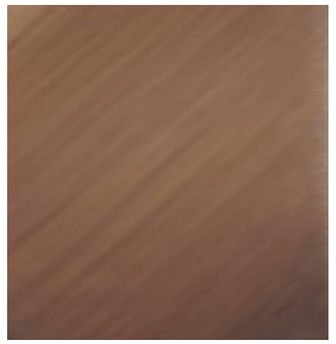
Scale 1:200 @A3

Materiality

Stone cladding

Anstrude Limestone (FR)

The Fins

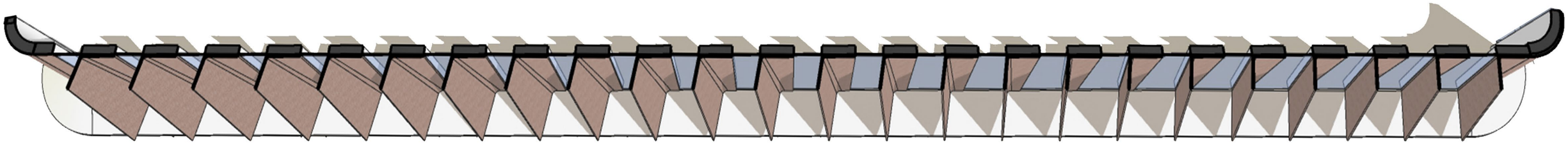


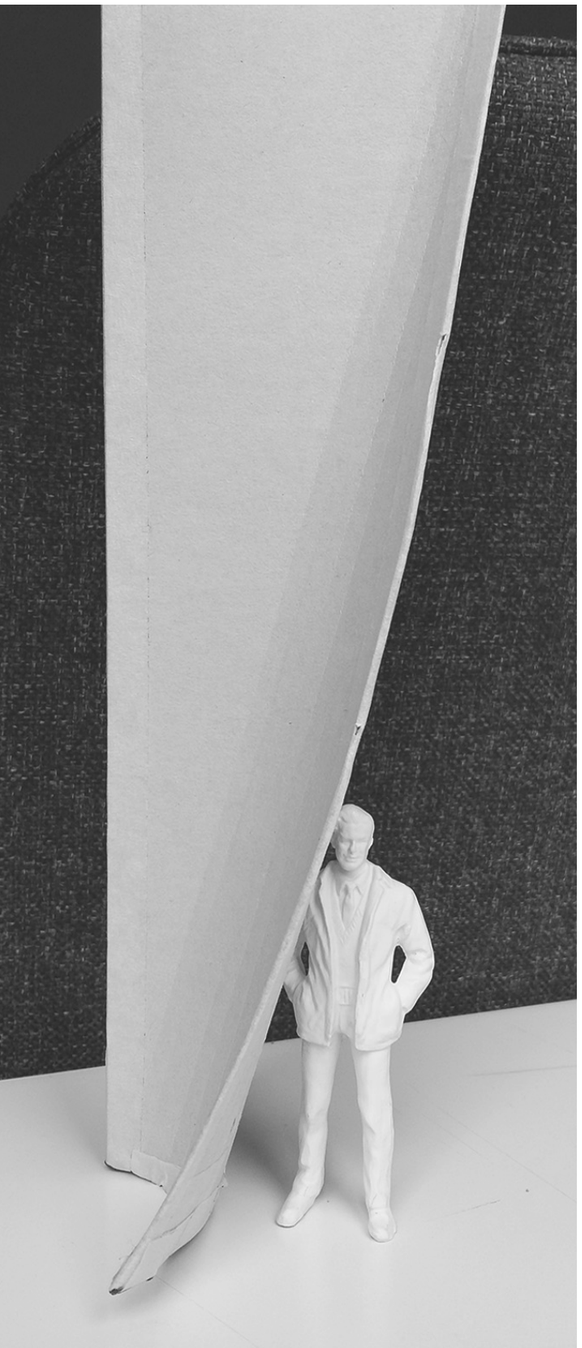
Patinated Polished Brass

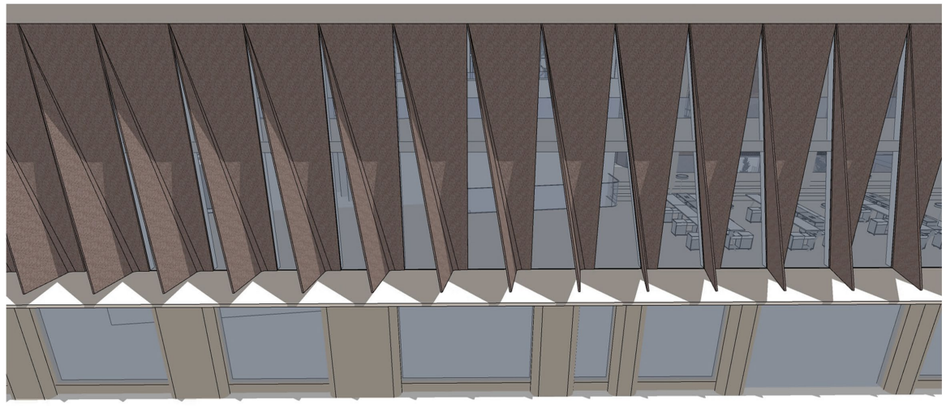
Transparent elements

High iron glazing panels

The Fins facade.

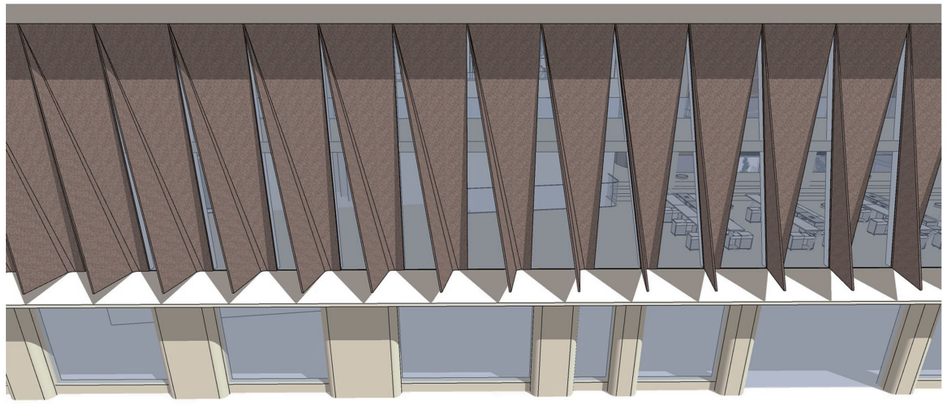




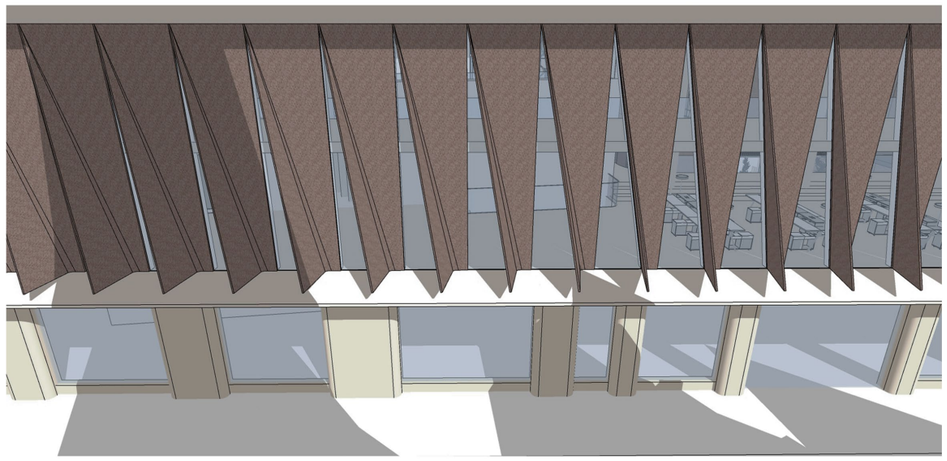


12/07 Lighting study

3:30



4:30



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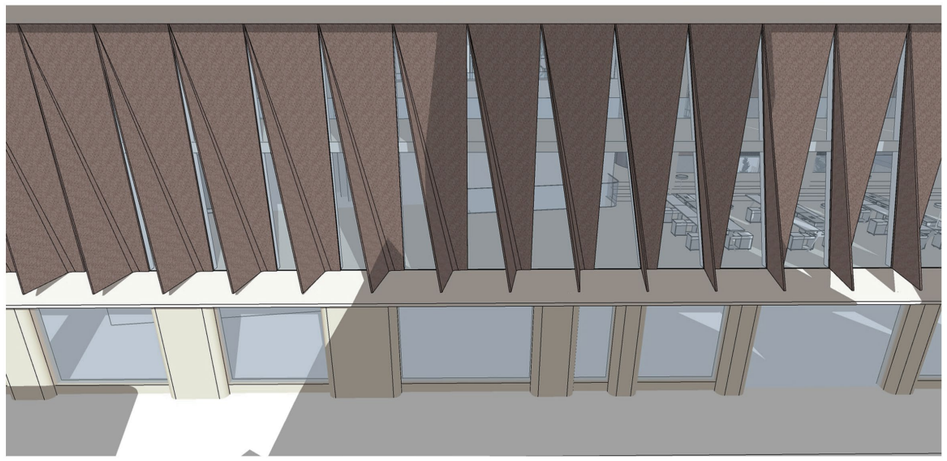
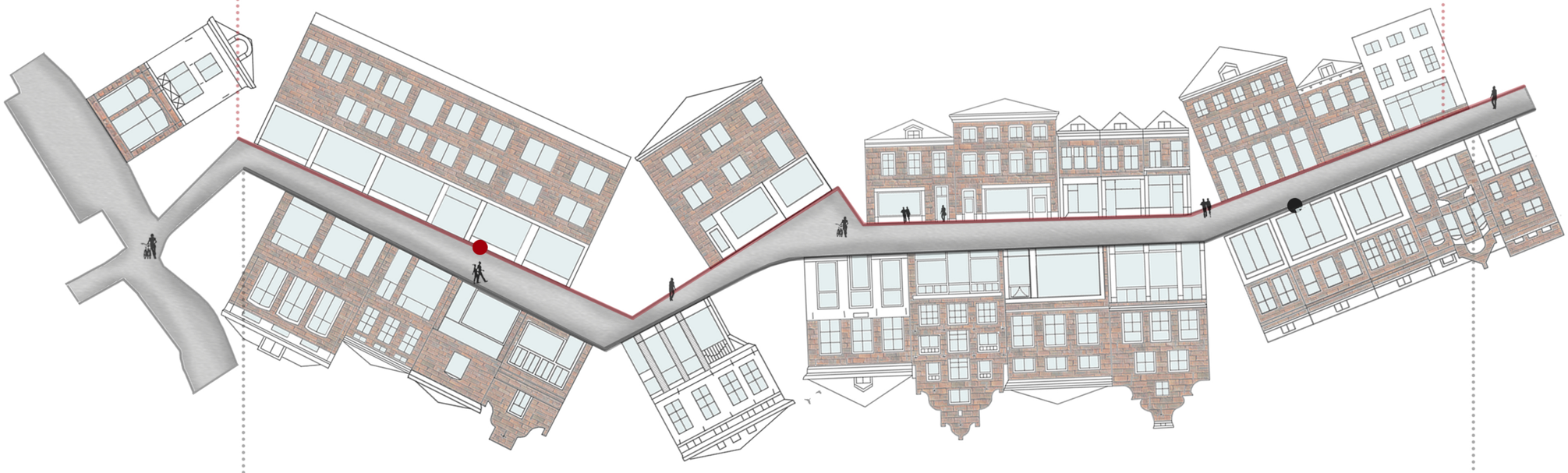


6:30

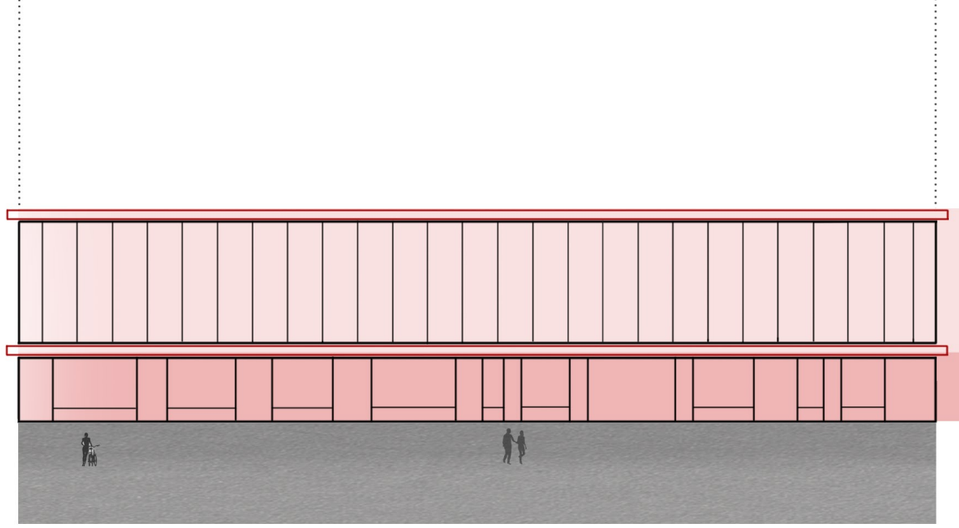
Scale 1:400 @A3

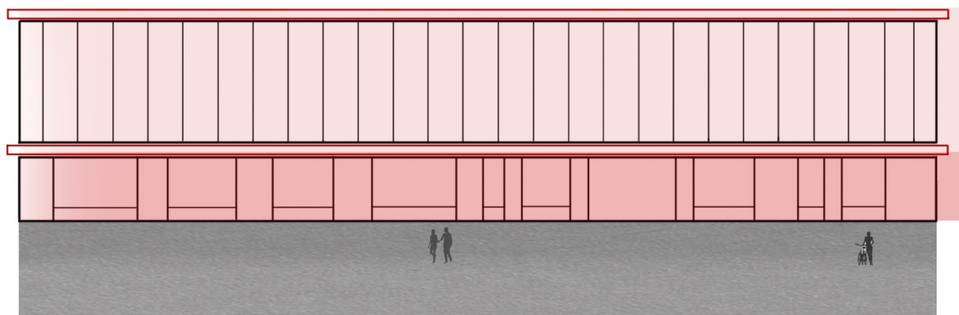
A retail street profile.



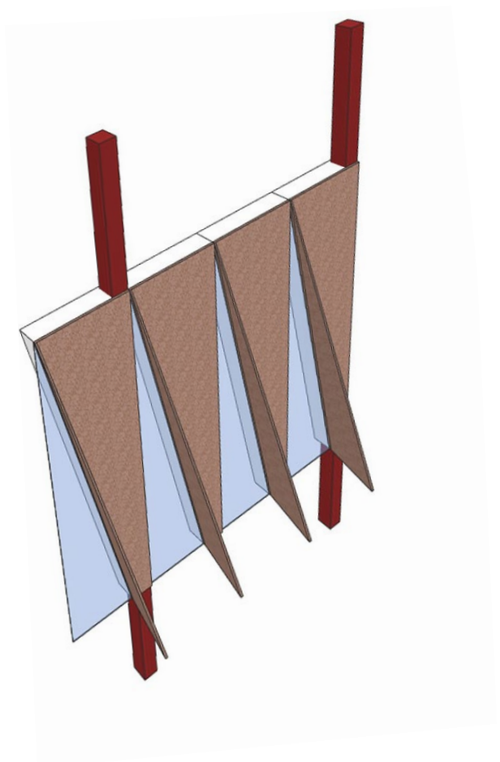
Comparison based on typology.

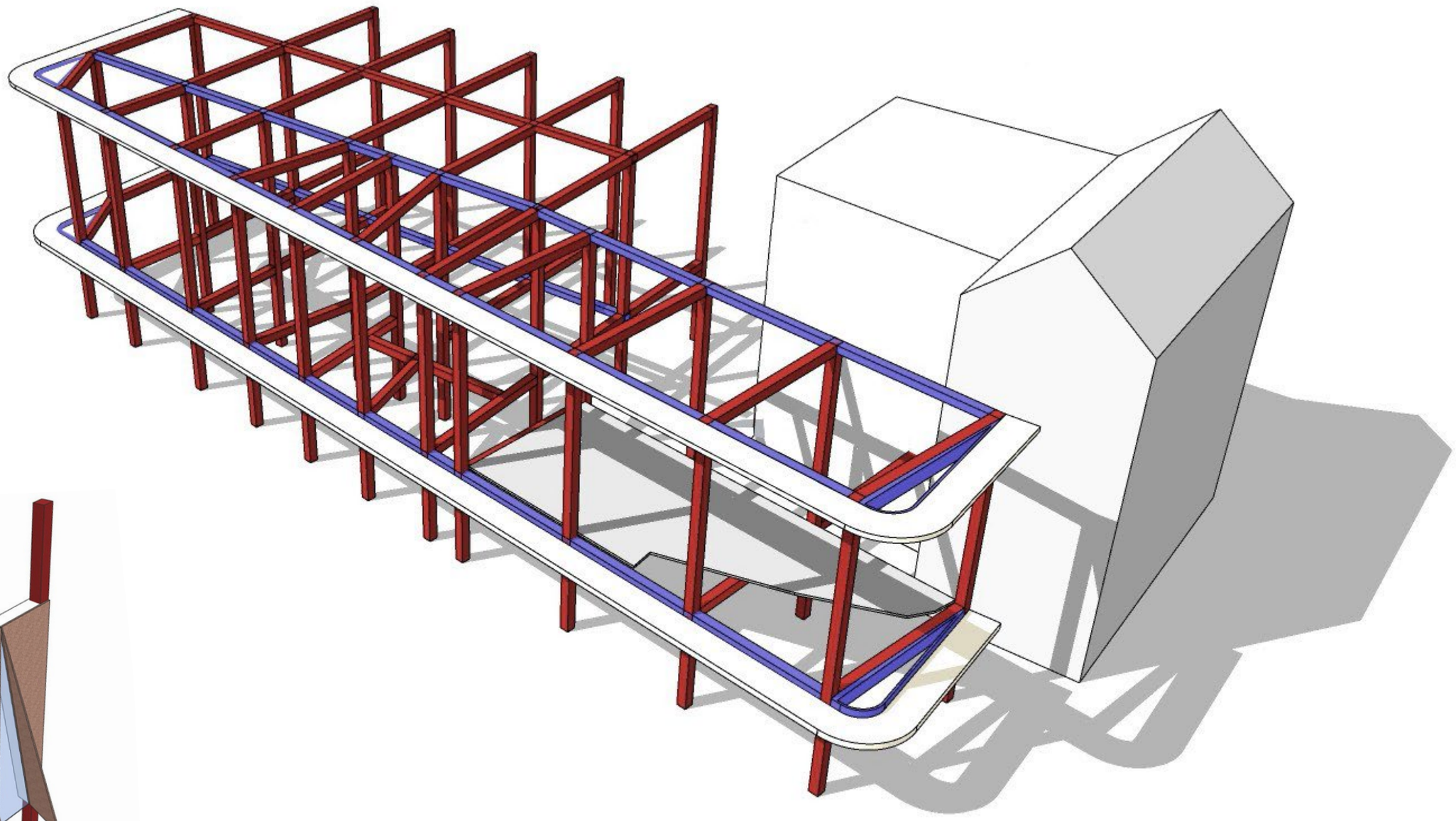
Dieserstraat cross section





Structure analysis.





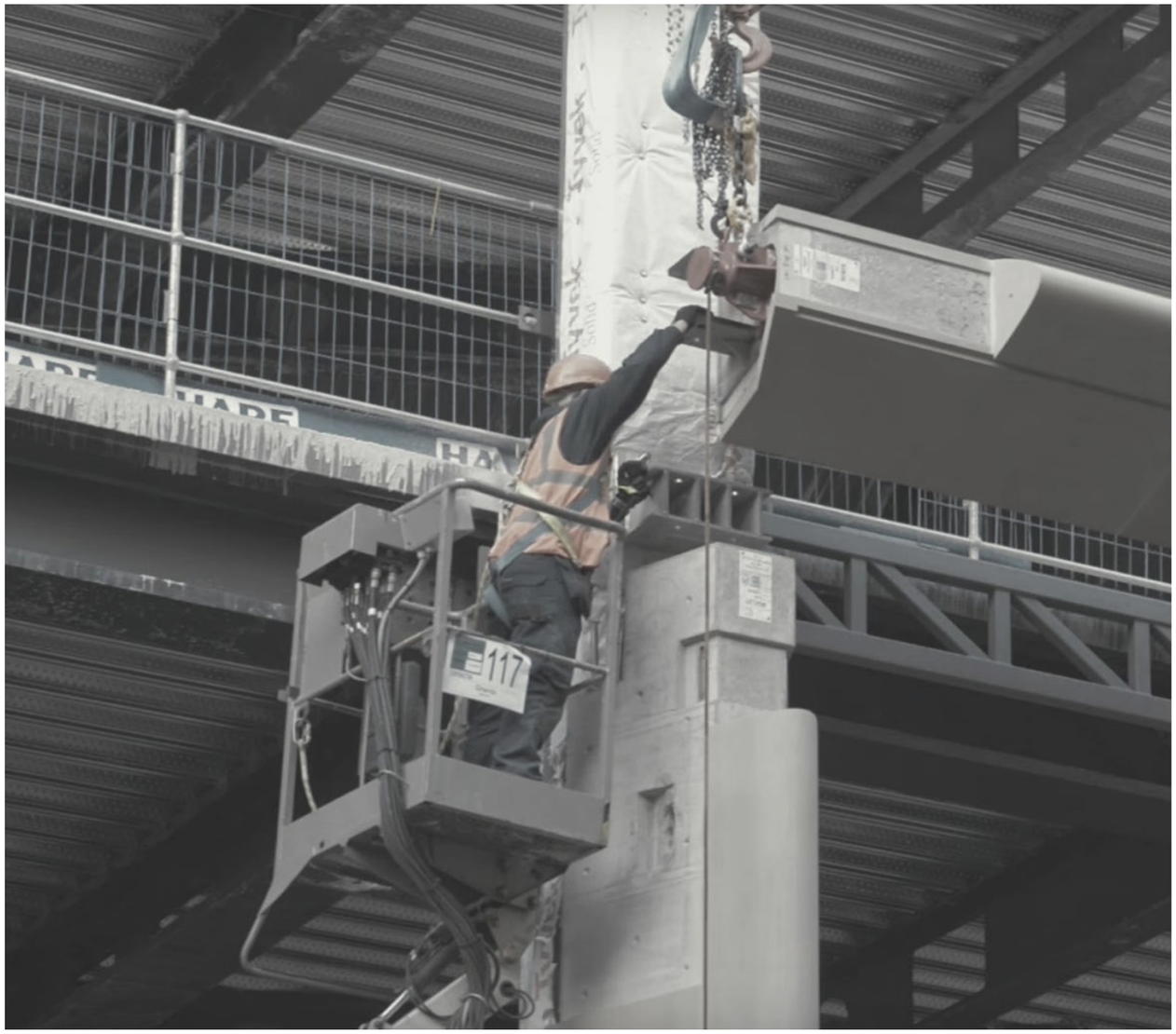
Projecting fins support system

Primary structure

Secondary structure/finishes

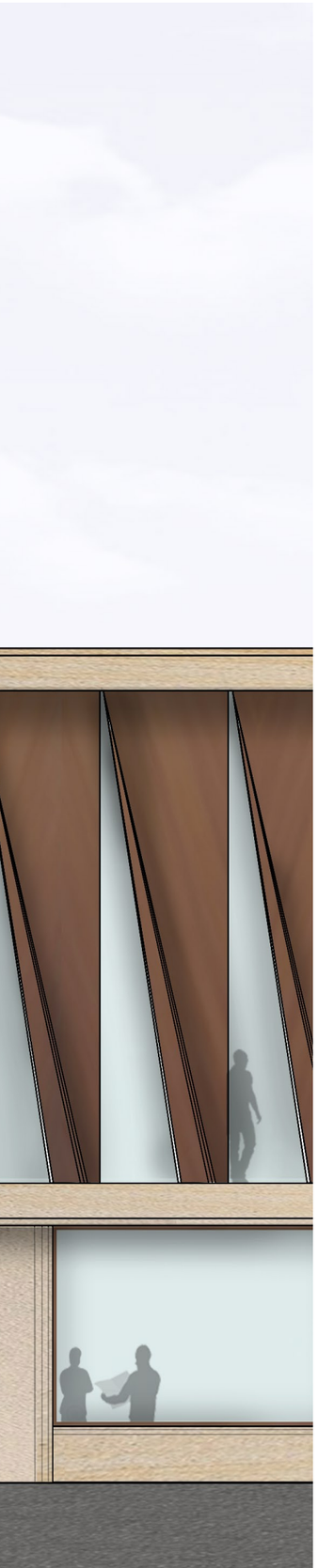
Drawing parallels.

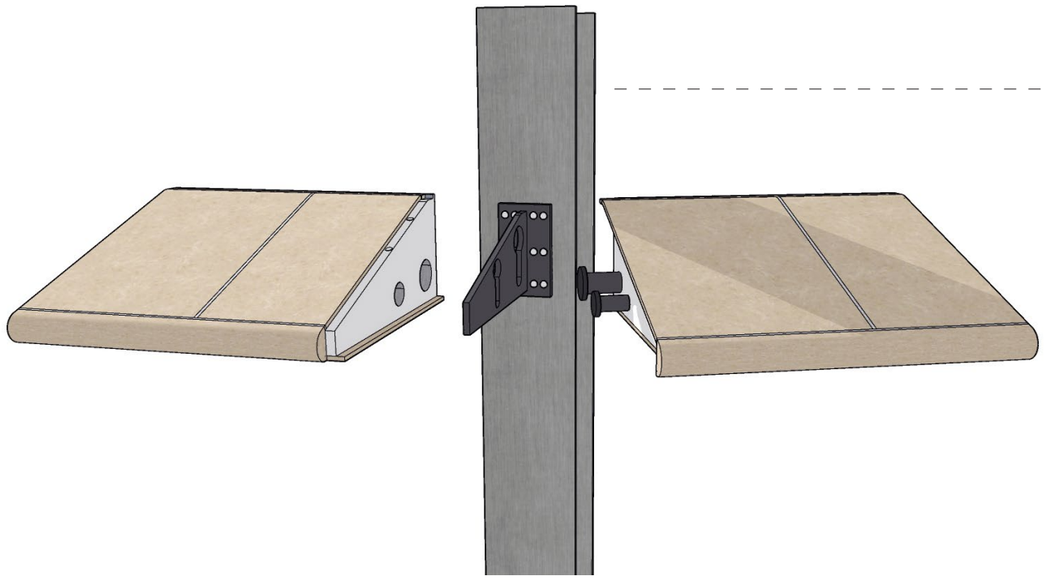
Dior Haute Couture S/S 2011, by John Galliano.

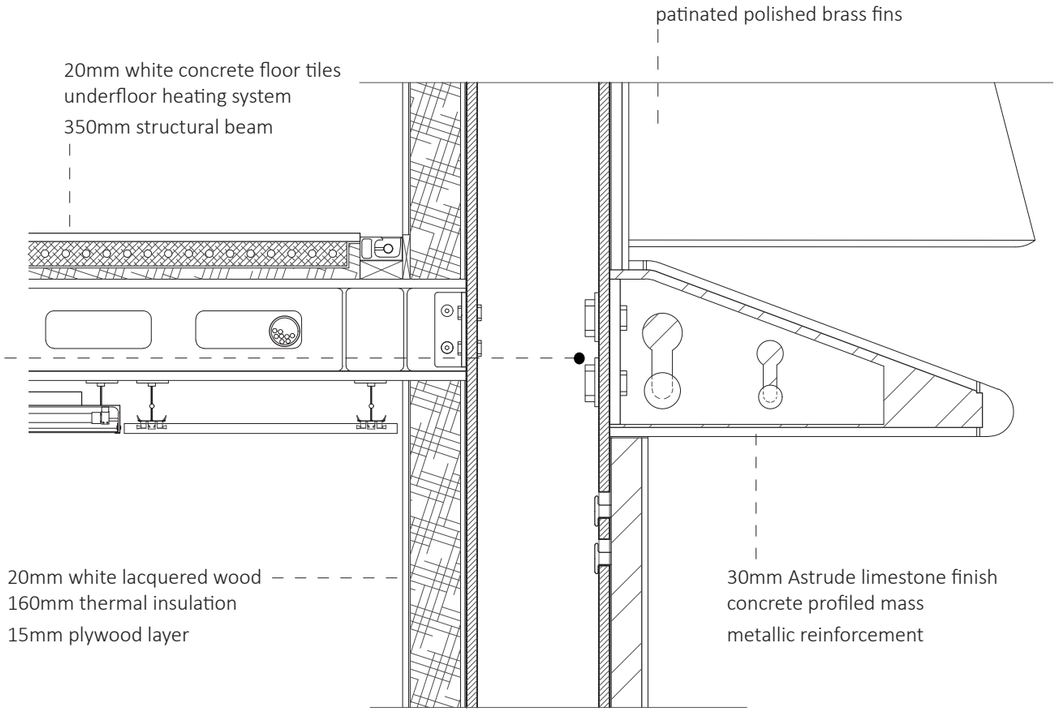


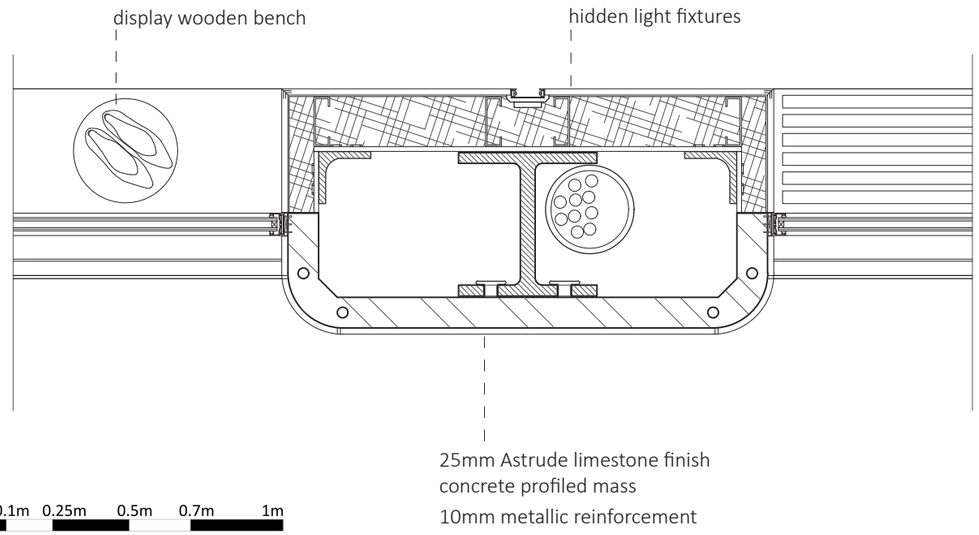
Bloomberg London Headquarters, by Foster+Partners.

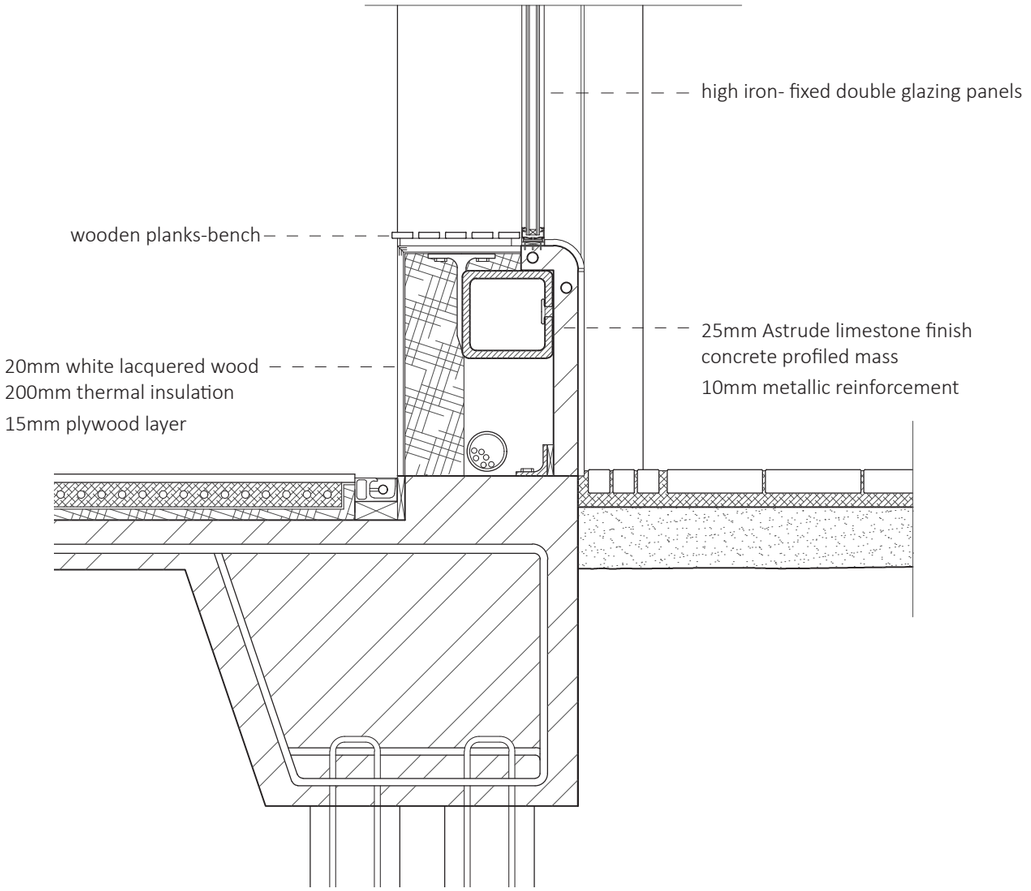
The logic behind construction.











0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3

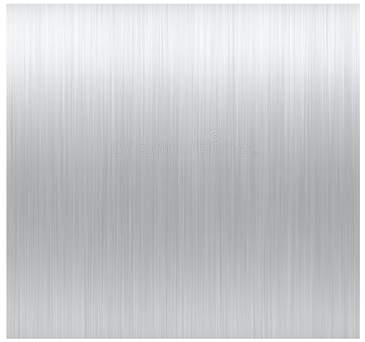
Connecting with the existing/past.

Atelie interior atmosphere.

Materiality

White lacquered wood

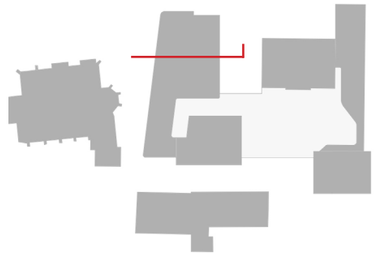
Polished white concrete



Inox detailing

Fabrics

Atelie in a box.



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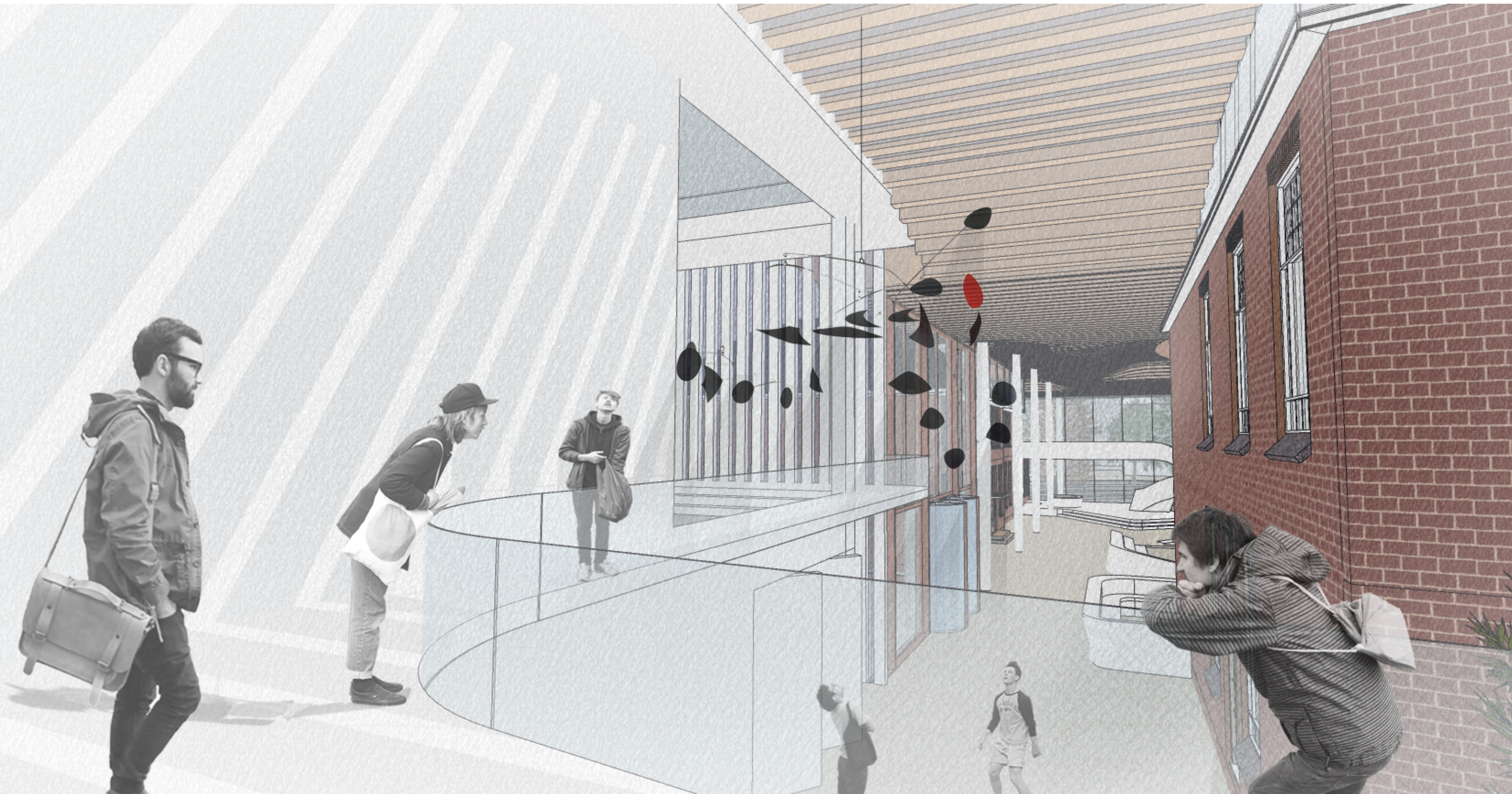
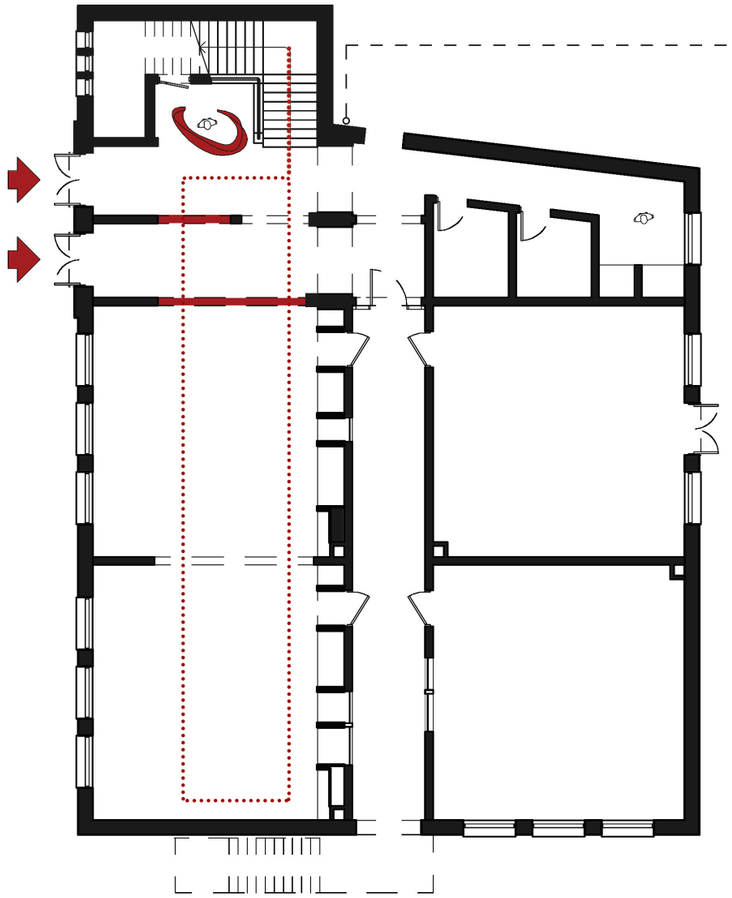
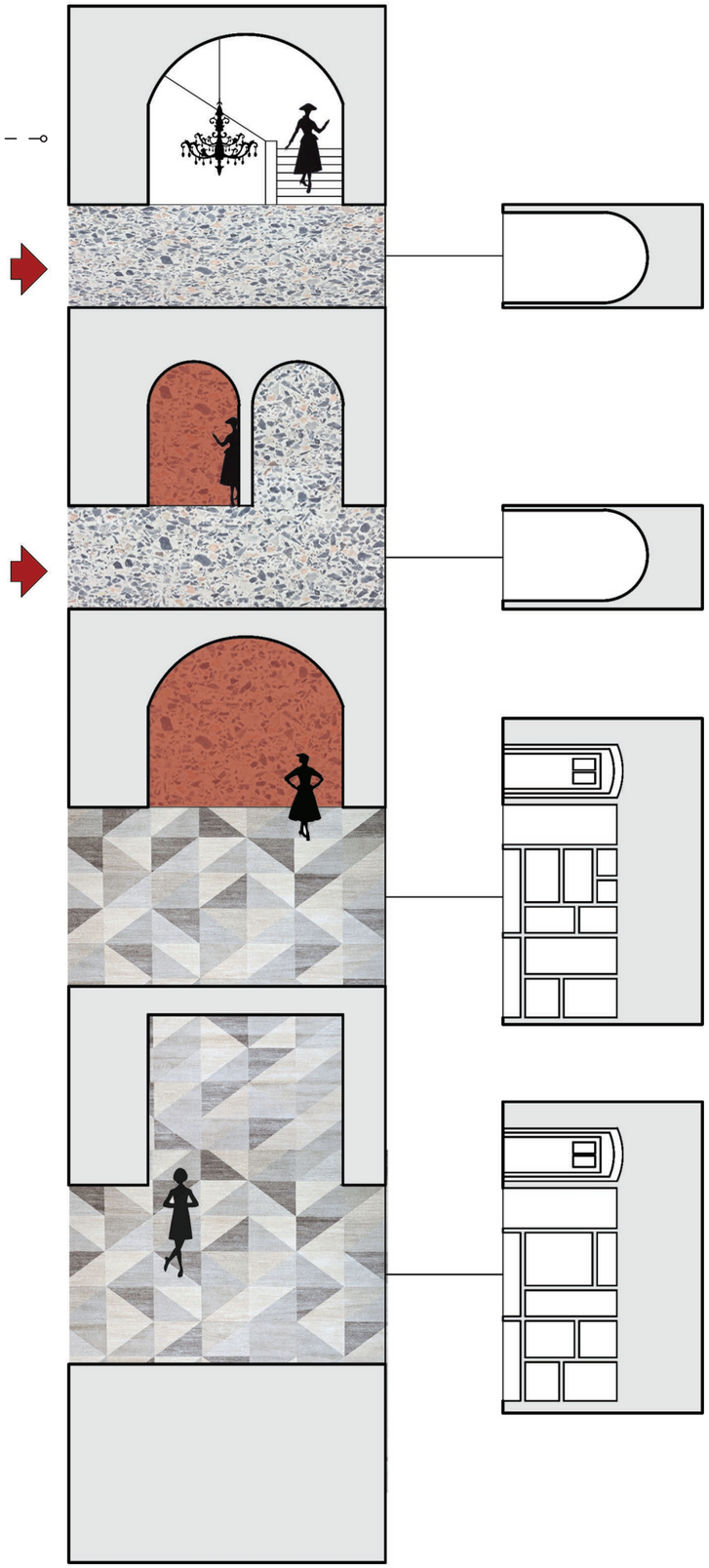


AOGO

The Defile room.



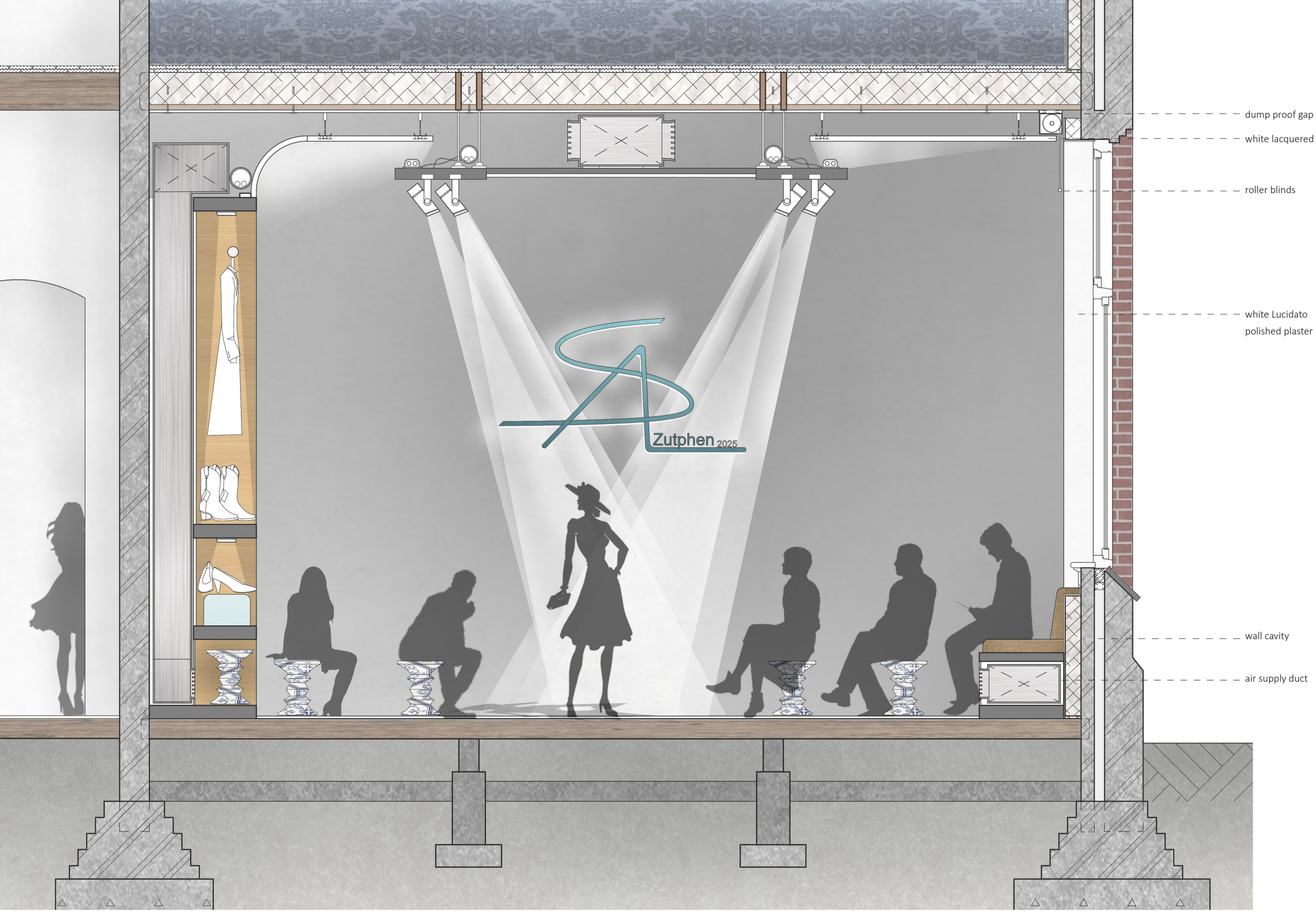


0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3

0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3



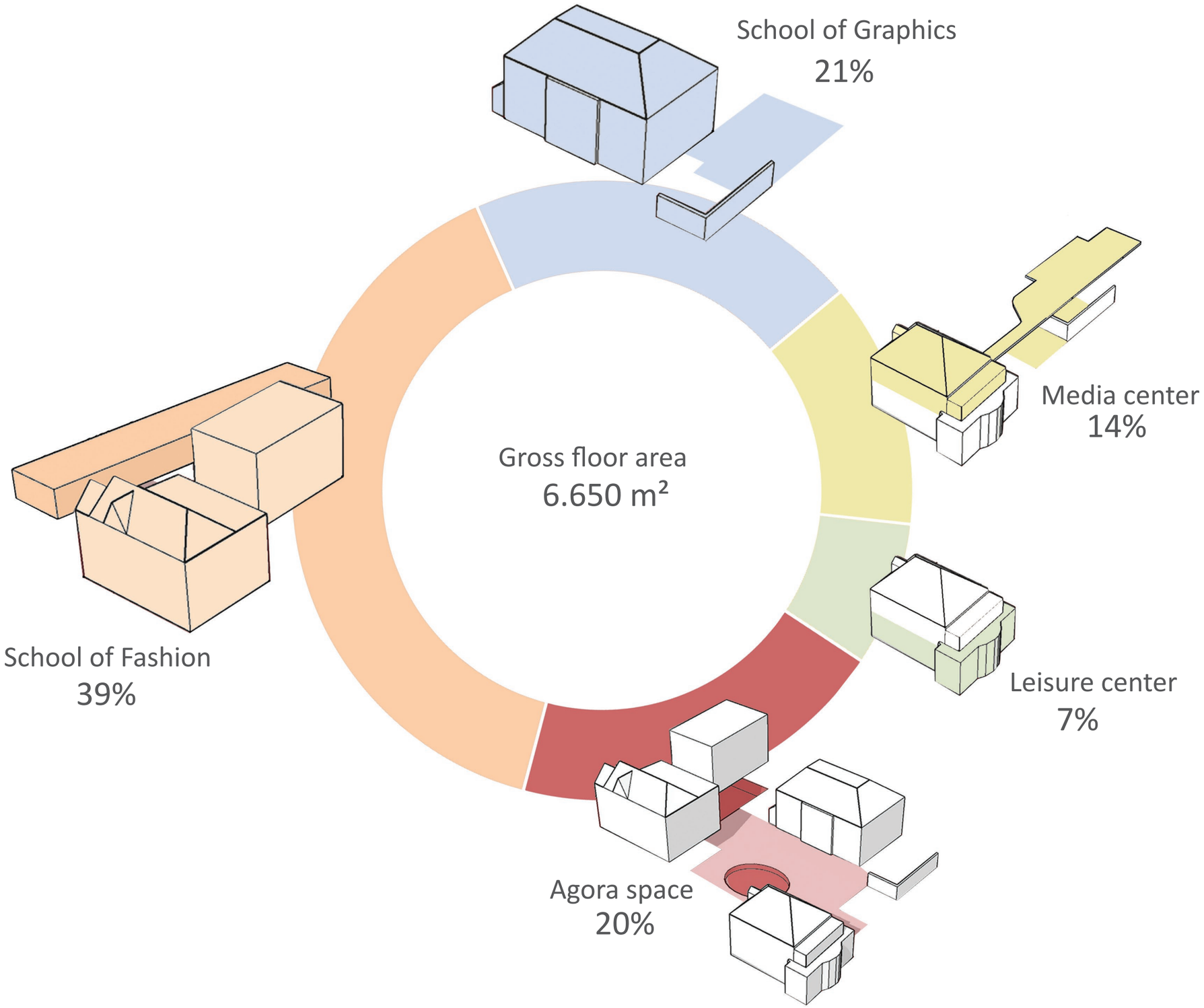
0.1m 0.25m 0.5m 0.7m 1m

Scale 1:20 @A3

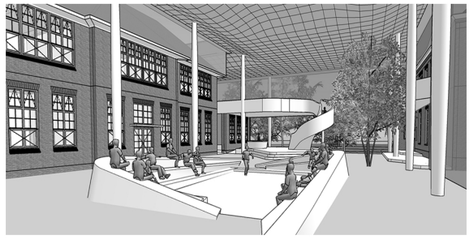
Thank You...!

Supporting info...!

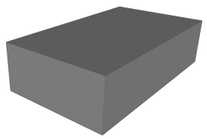
Programm distribution.



Scale comparison of the Agora space.

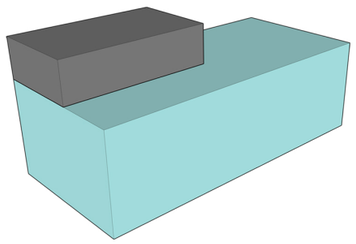


Klein Vaticaan Agora

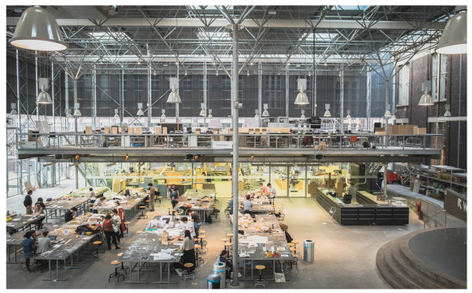


24m X 42m X 11m
1.000 m²

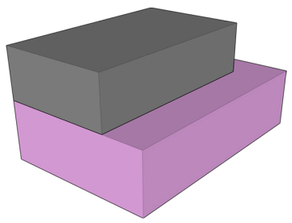
Smithsonia Art Museum



40m X 86m X 27m
3.440 m²

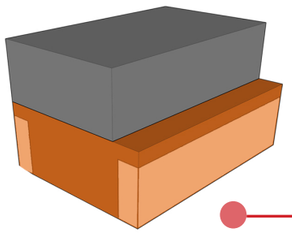


Architecture Model Hall TuDelft

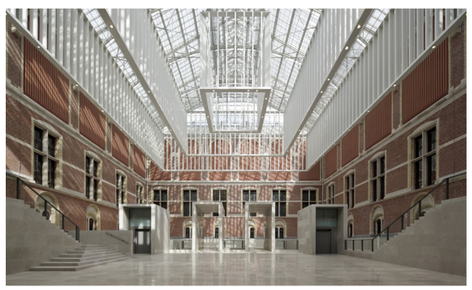


33m X 50m X 13m
1.650 m²

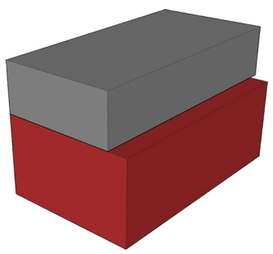
Gemeentemuseum Den Haag



29m X 42m X 13m
924 m²



Single Rijksmuseum courtyard

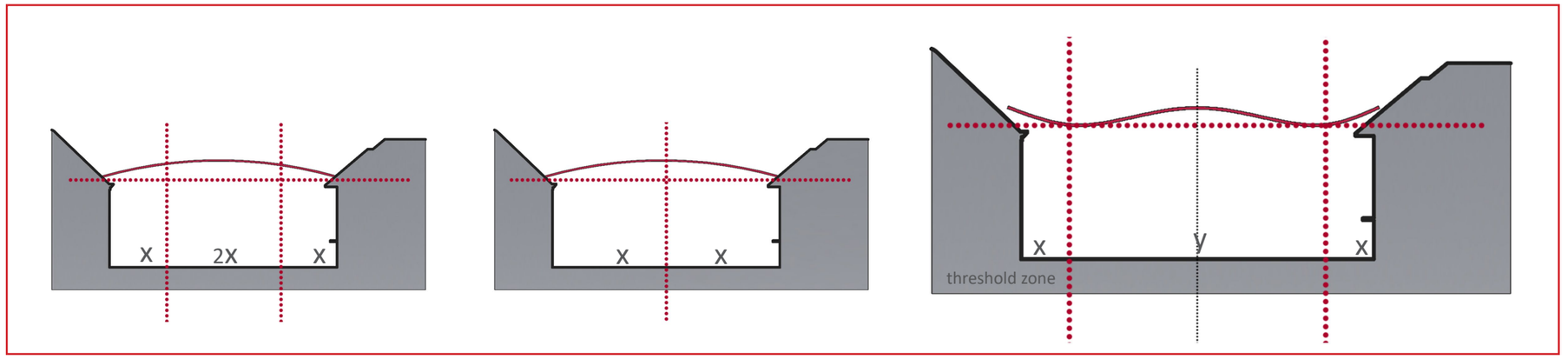


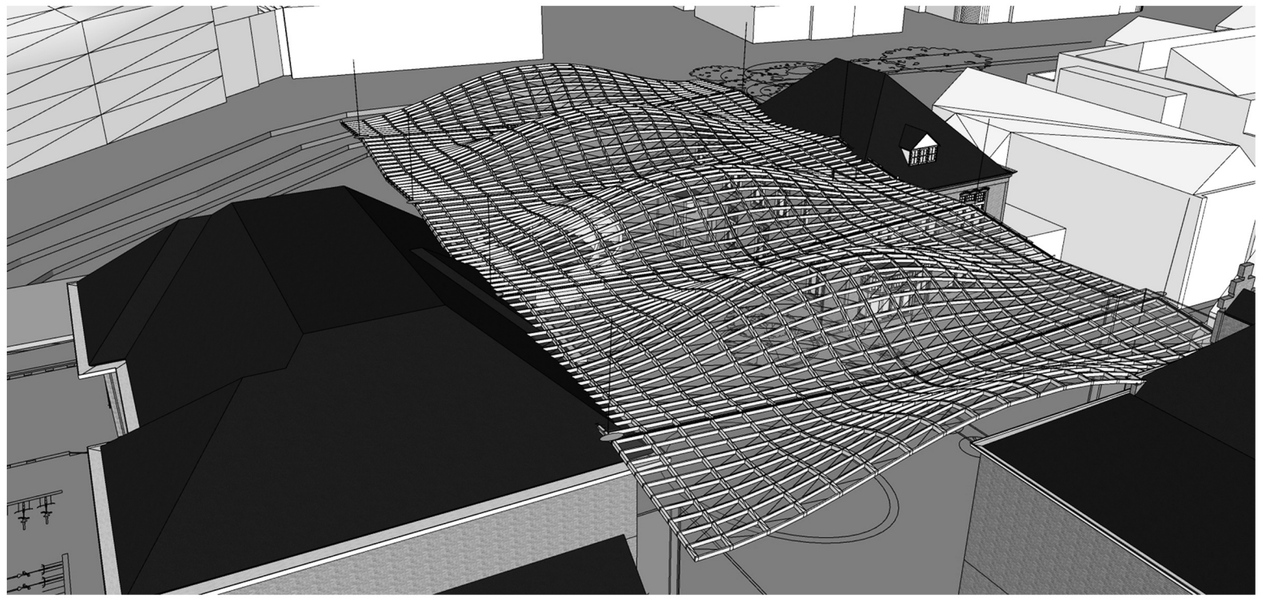
28m X 40m X 18m
1.120 m²

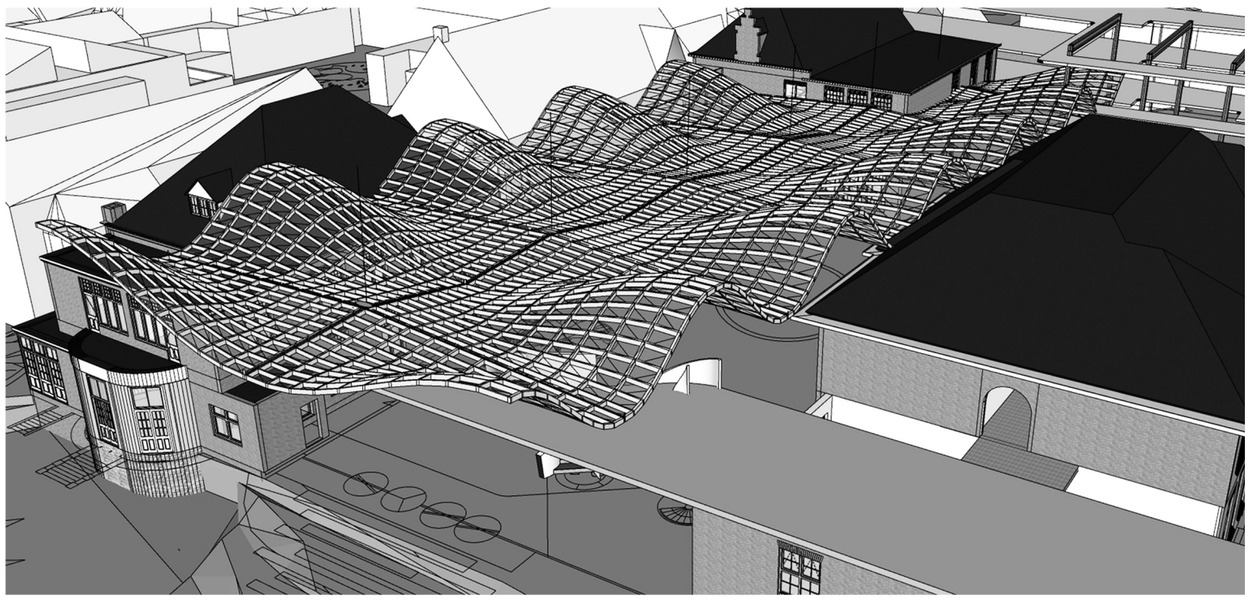
Event of low density

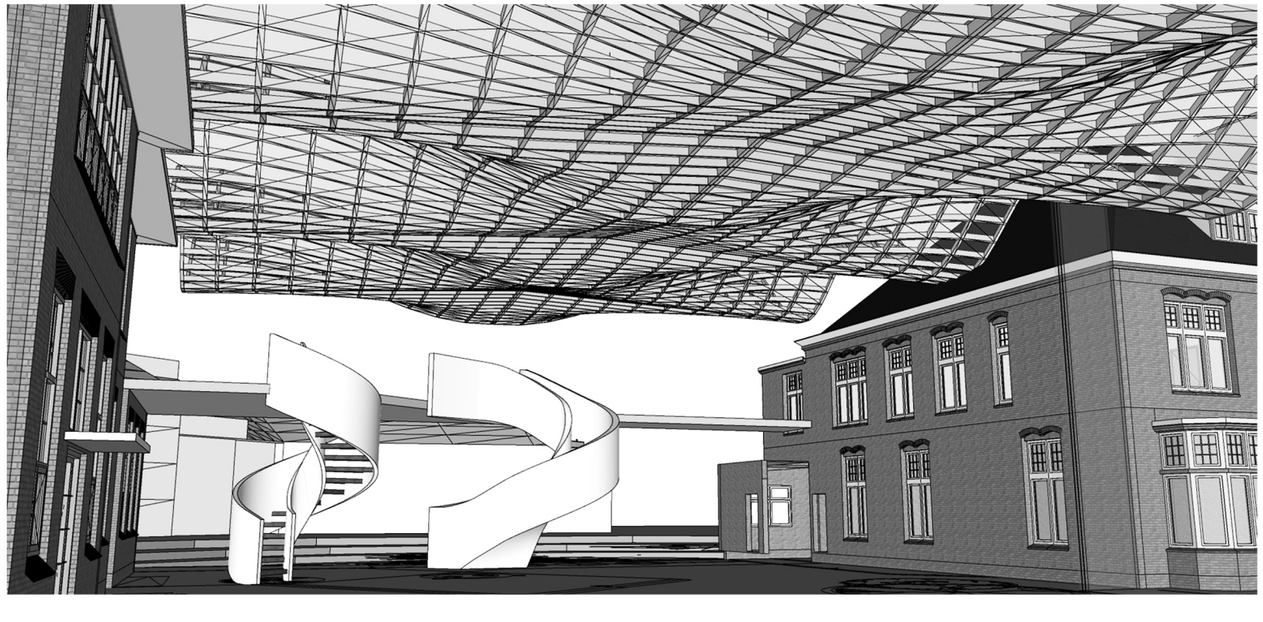
Event of high density

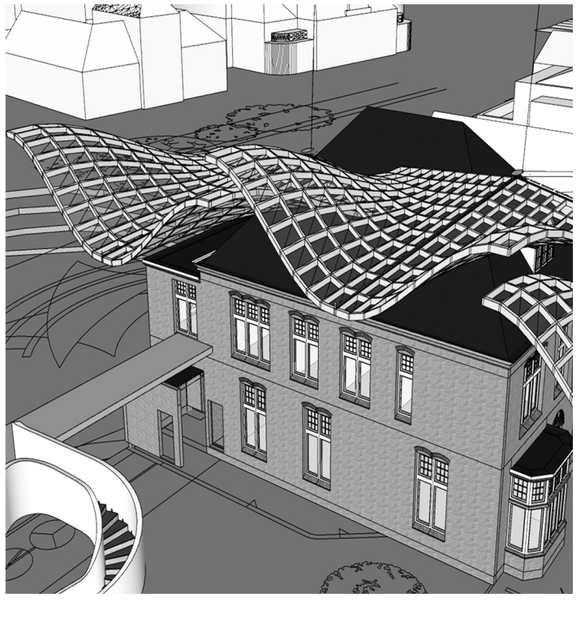
Canopy form experimentation.



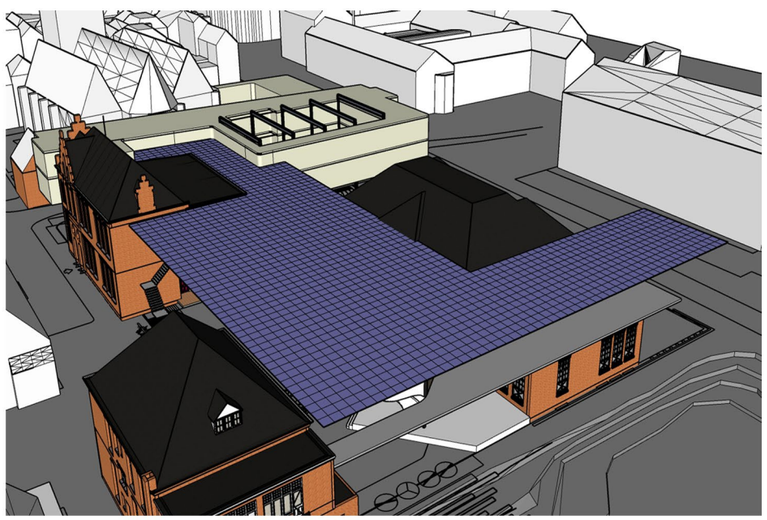


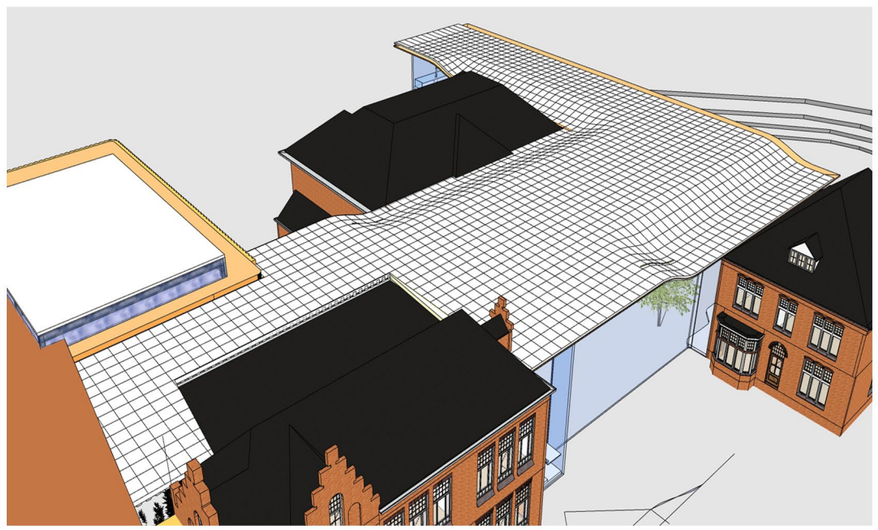


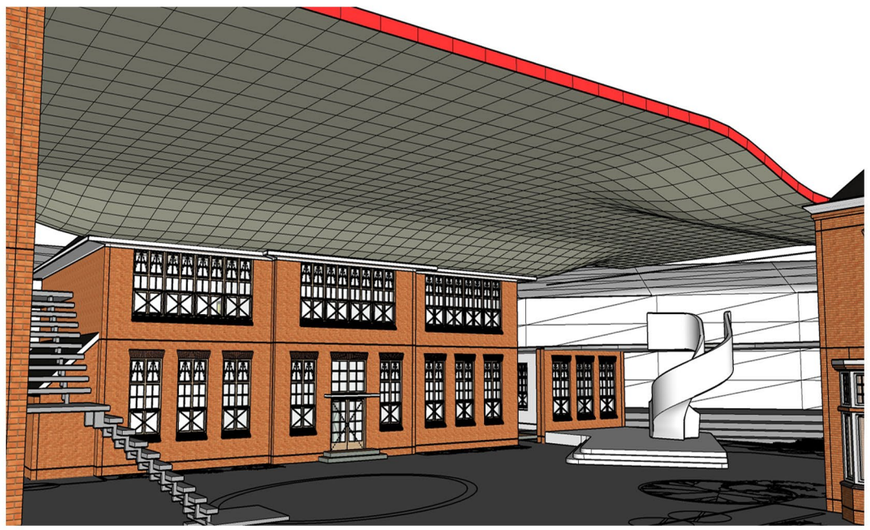




A Form based approach.

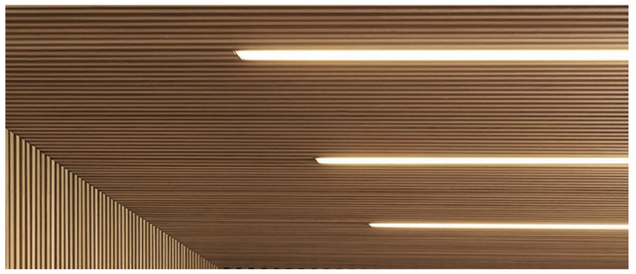
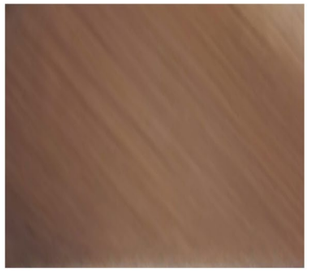


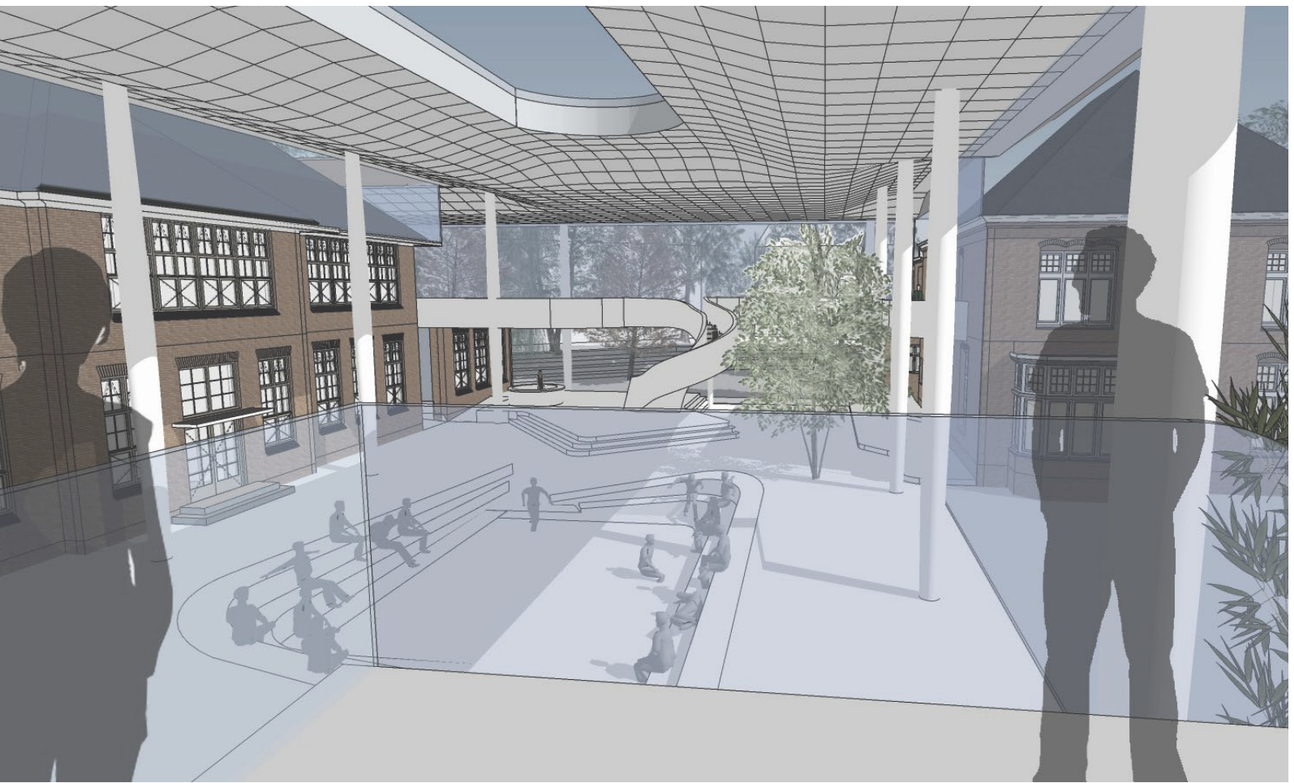


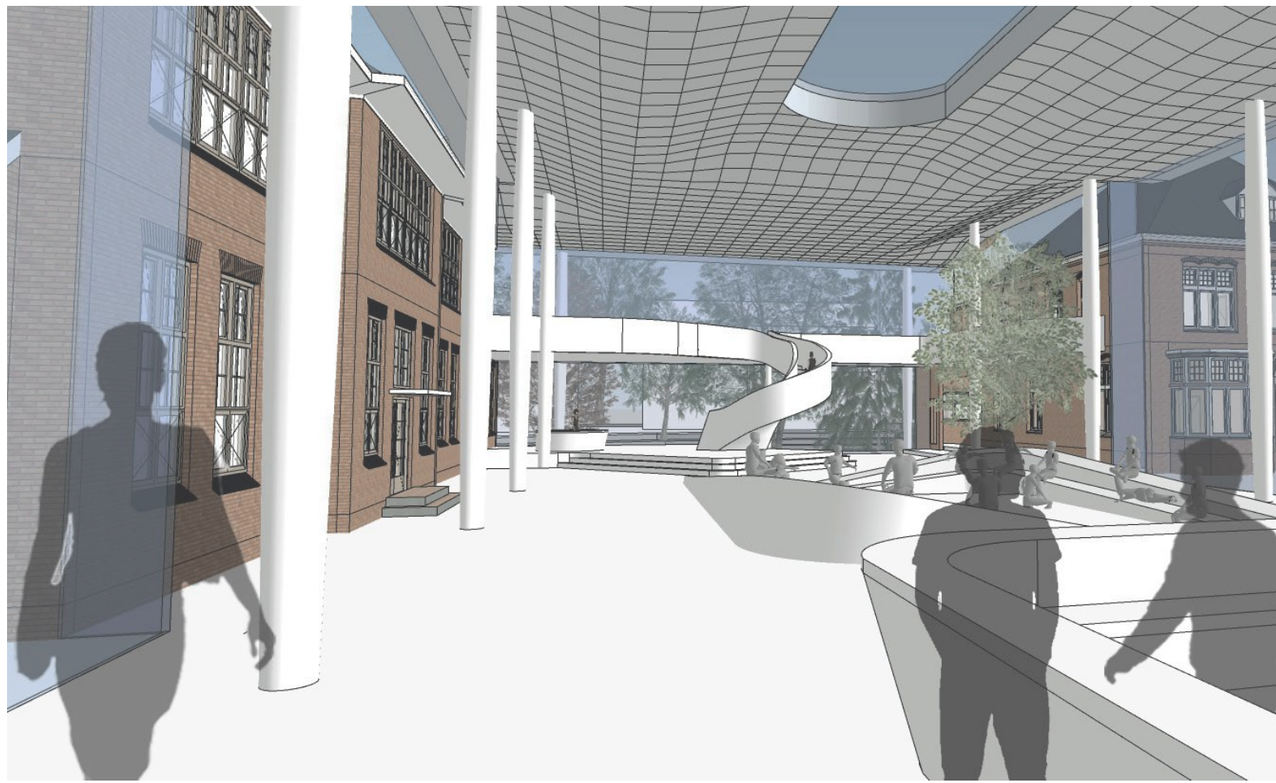


Canopy preliminary impression.

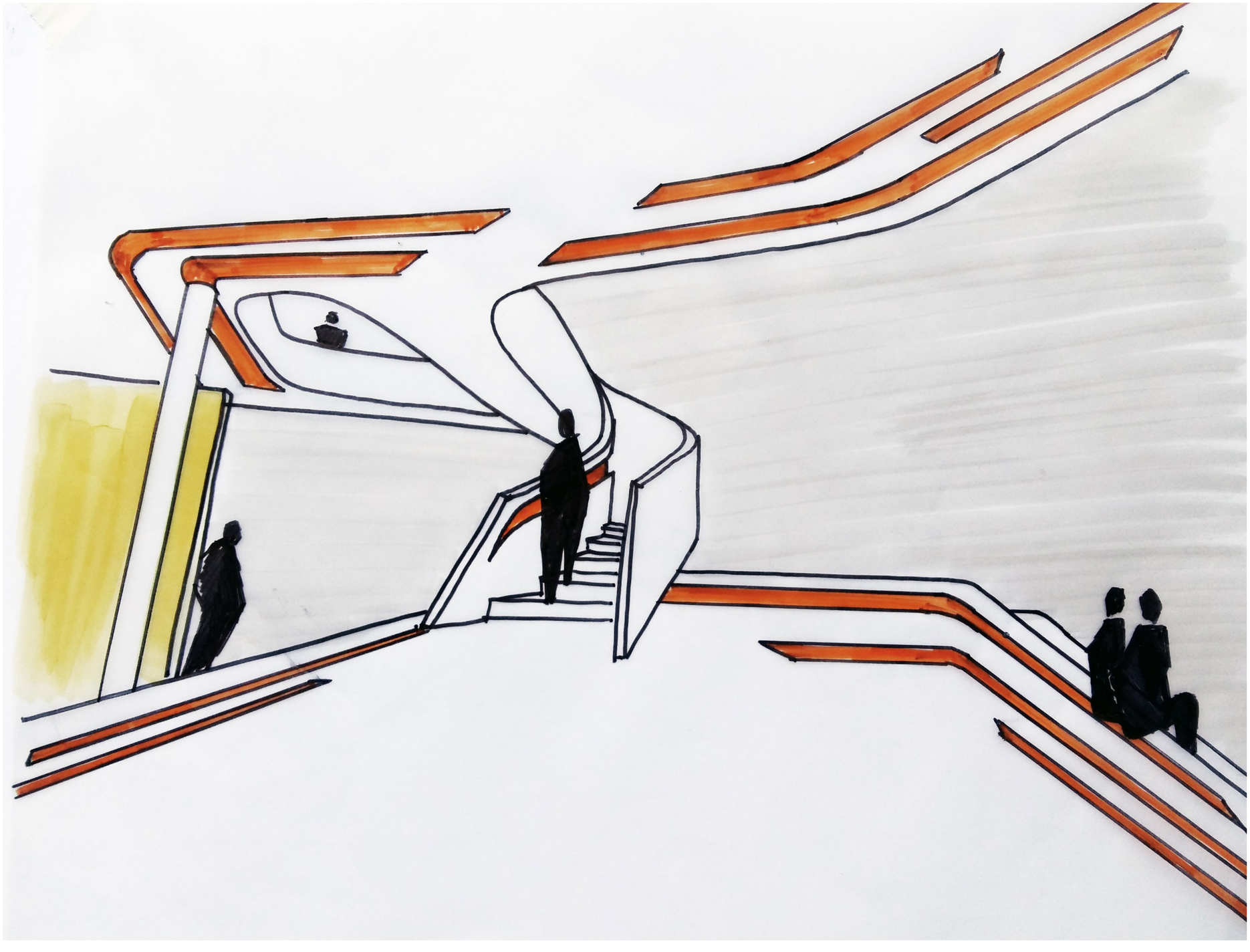
Material moodboard.

	Indoor surface	Projecting fins
Canopy cladding.	 Ash treated wood.	 Brown patinated brass.
Staircase/platform.	Anstrude Limestone (FR)	White lacquered wood
Curtain wall.		

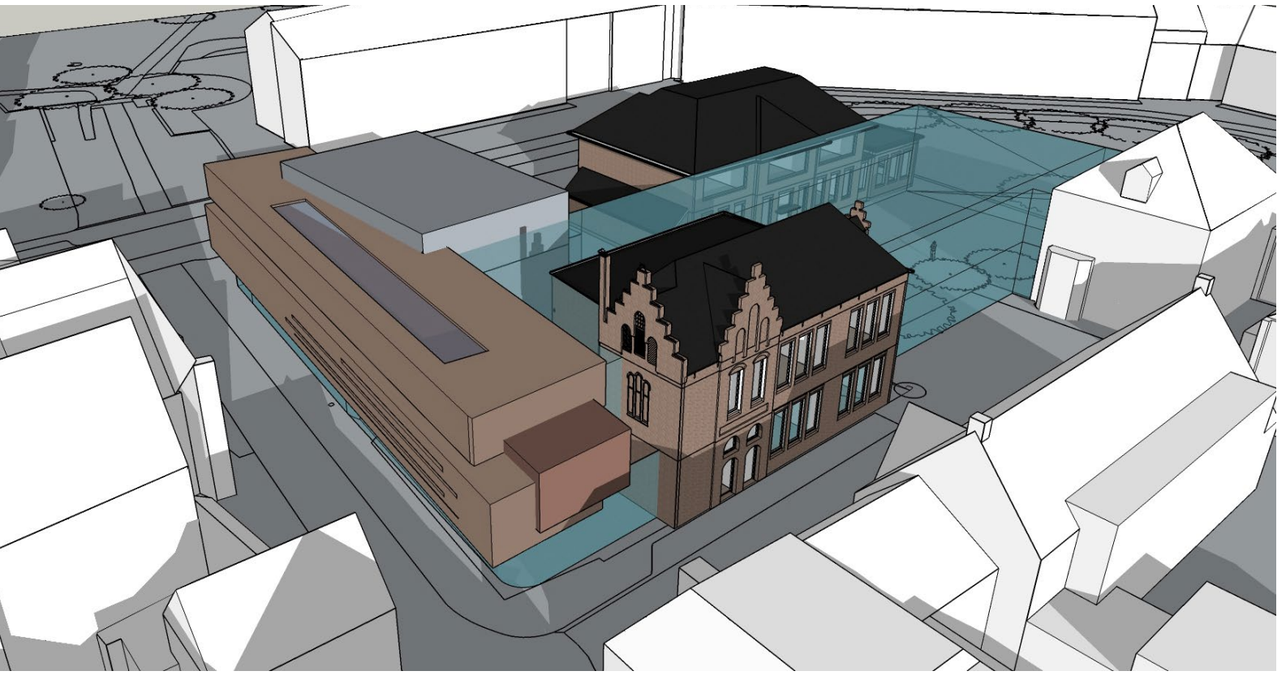


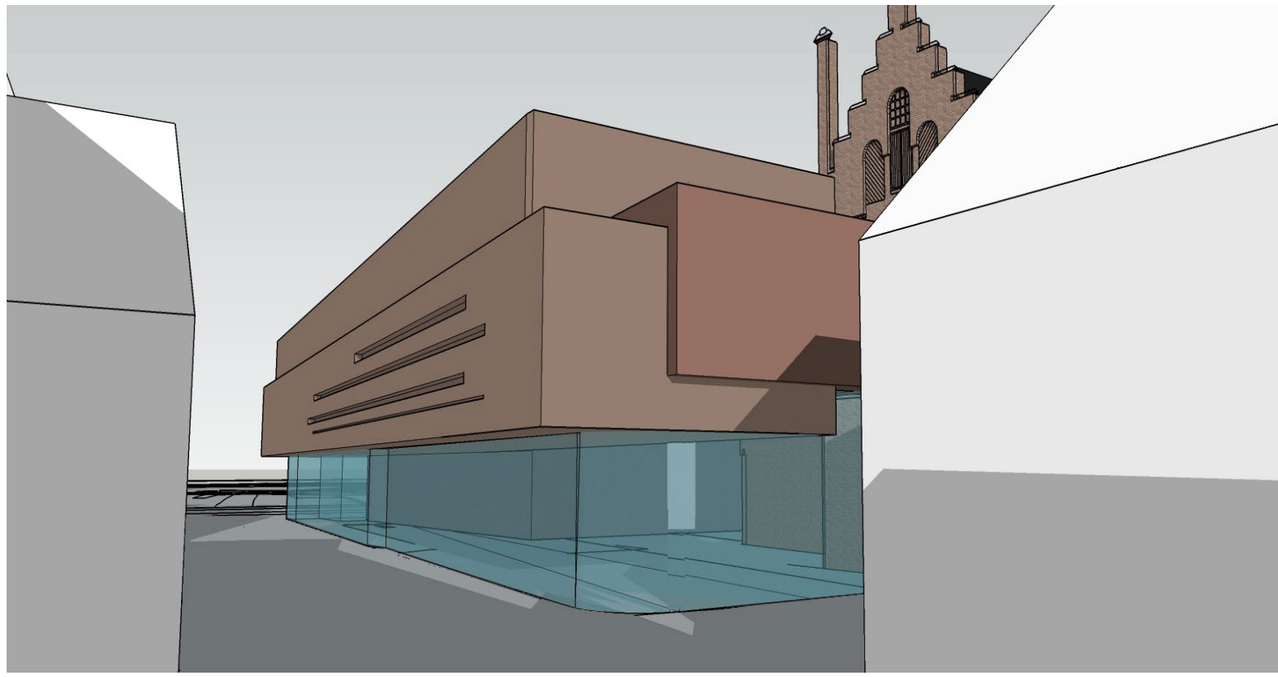


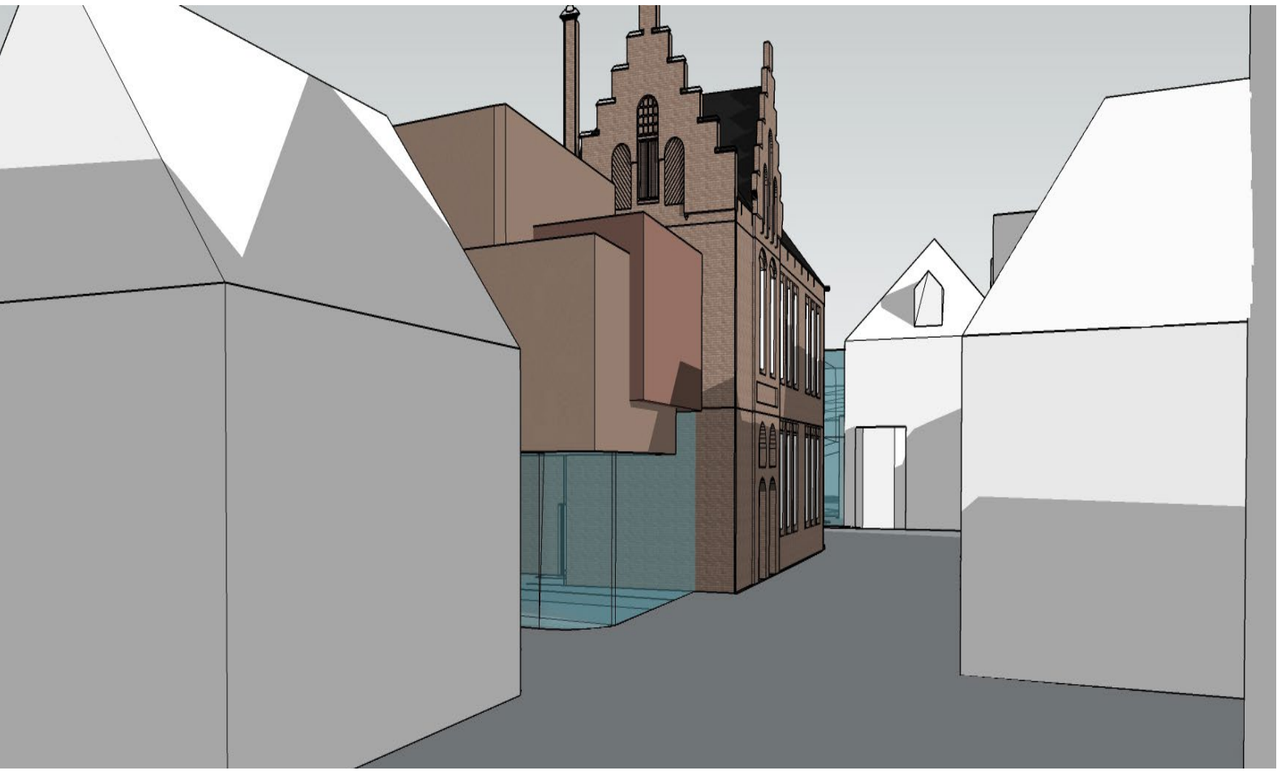
Media center platform/ introduction of fluidity.

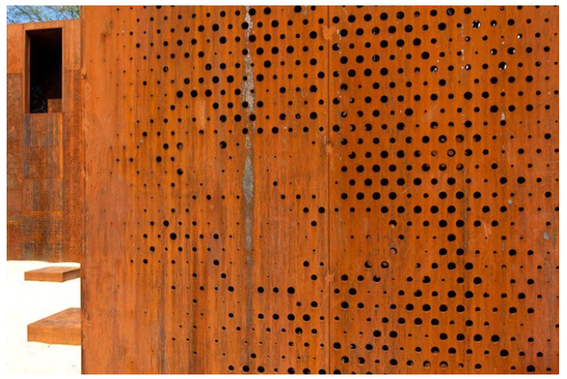


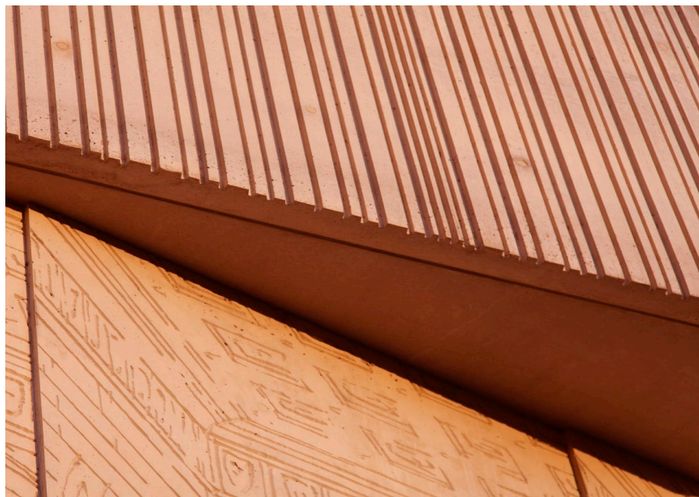
The atelie wing preliminary form experimentation.



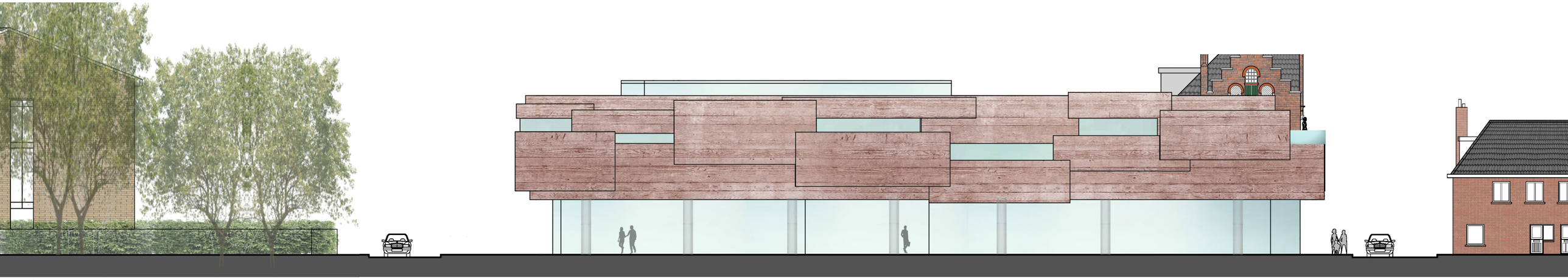








Atelie wing facade experimentation.

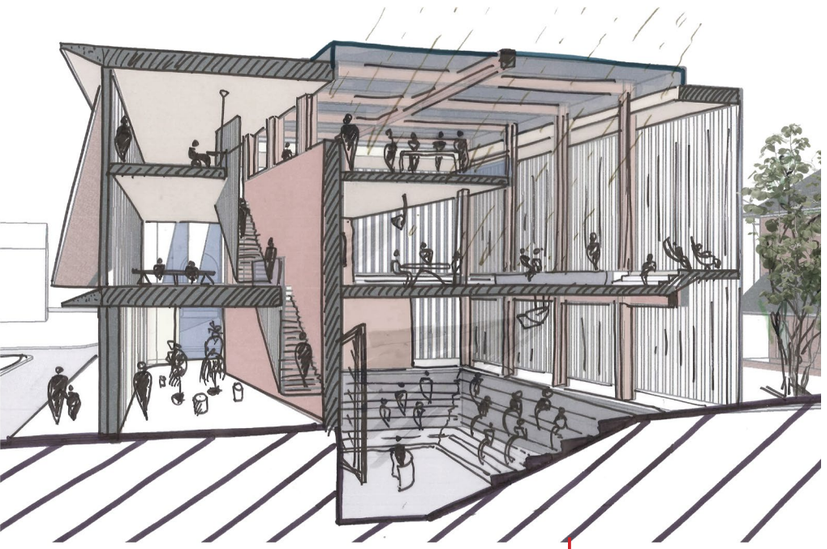


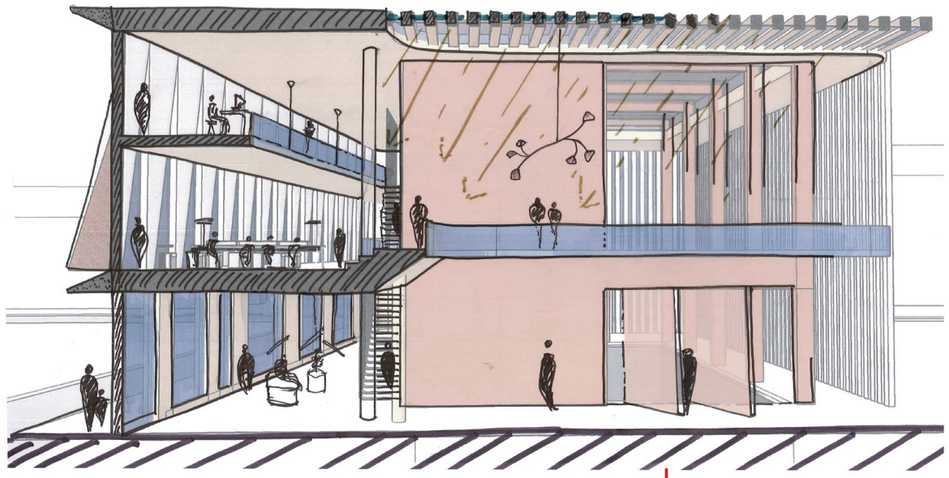
Scenario 01

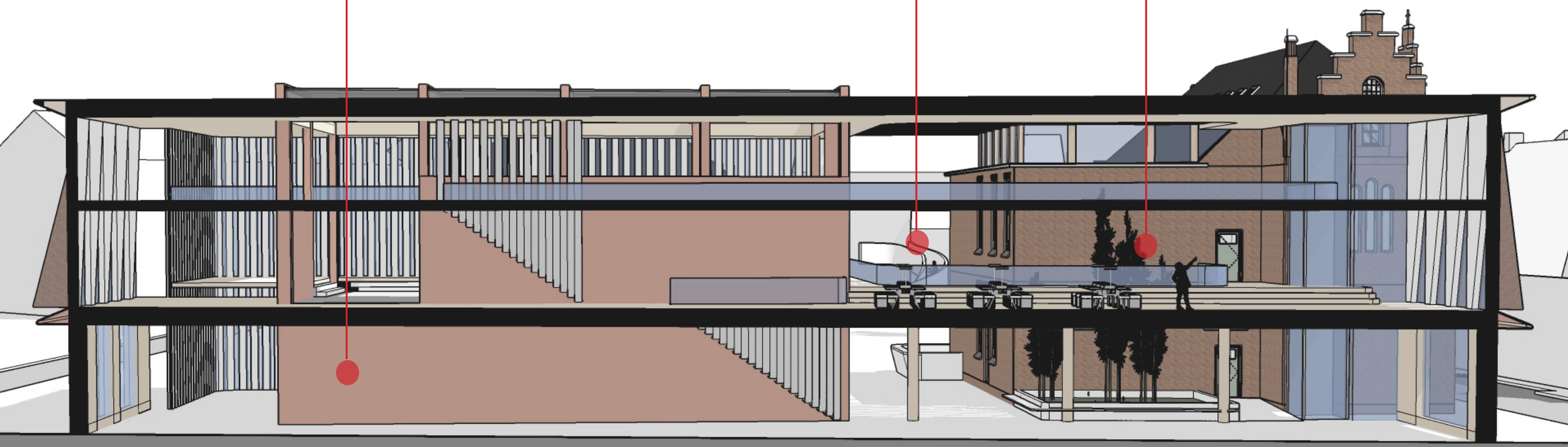
Scenario 02

Scenario 03

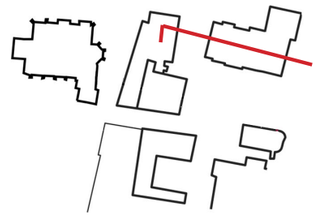
Preliminary conceptual sections of atelie wing.

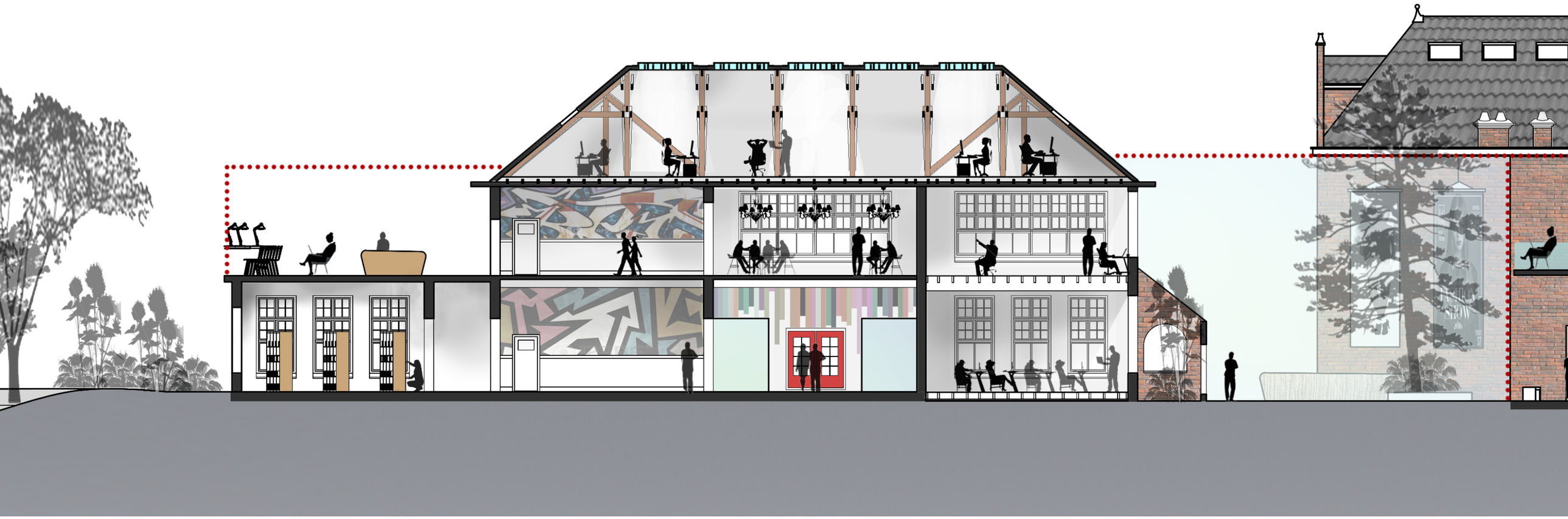


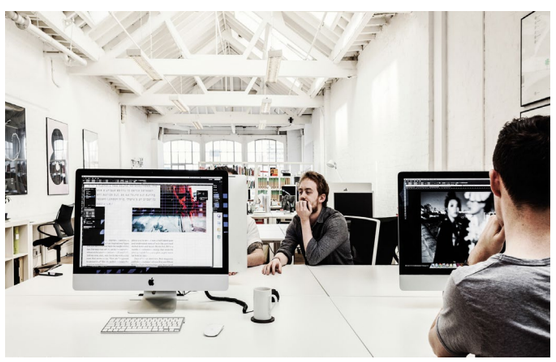


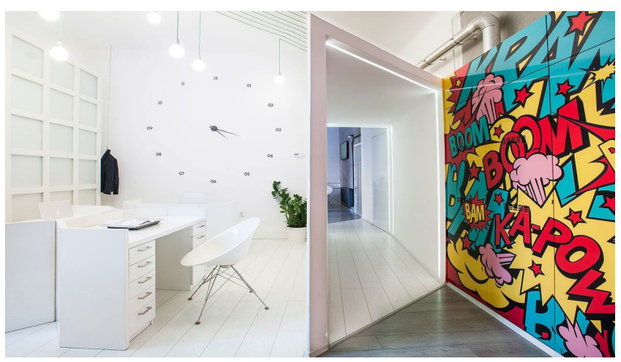


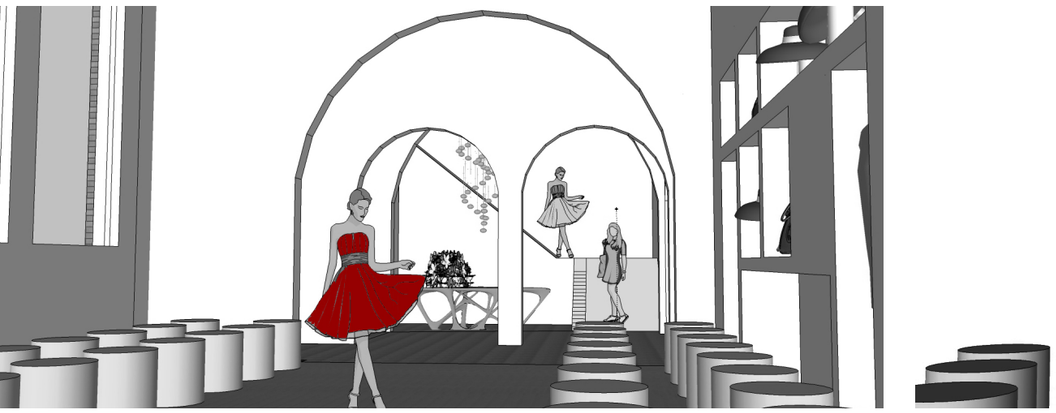
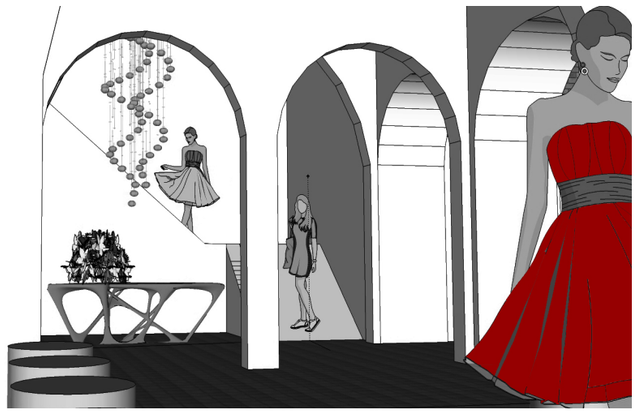
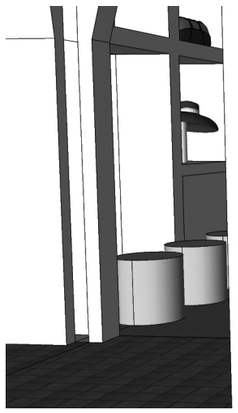
St.Joseph renovation moodboard.









3m 6m 9m

Defile room experimentation.