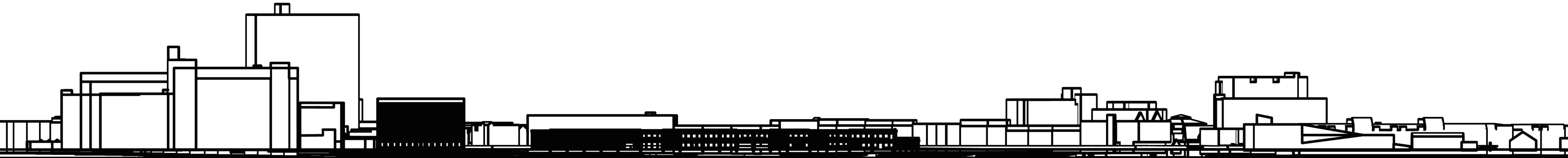


Community-based Relational Art Factory Tarwewijk

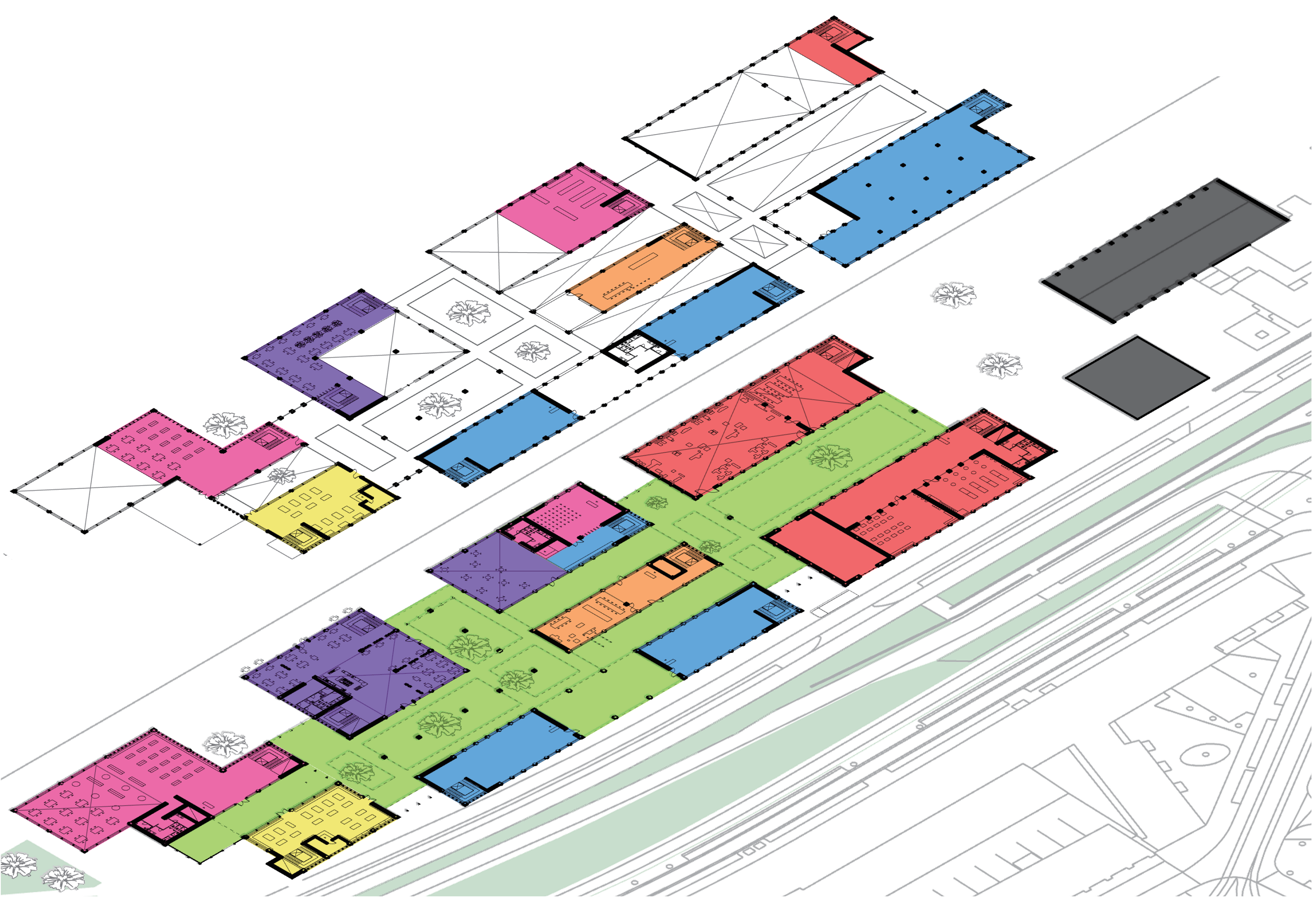
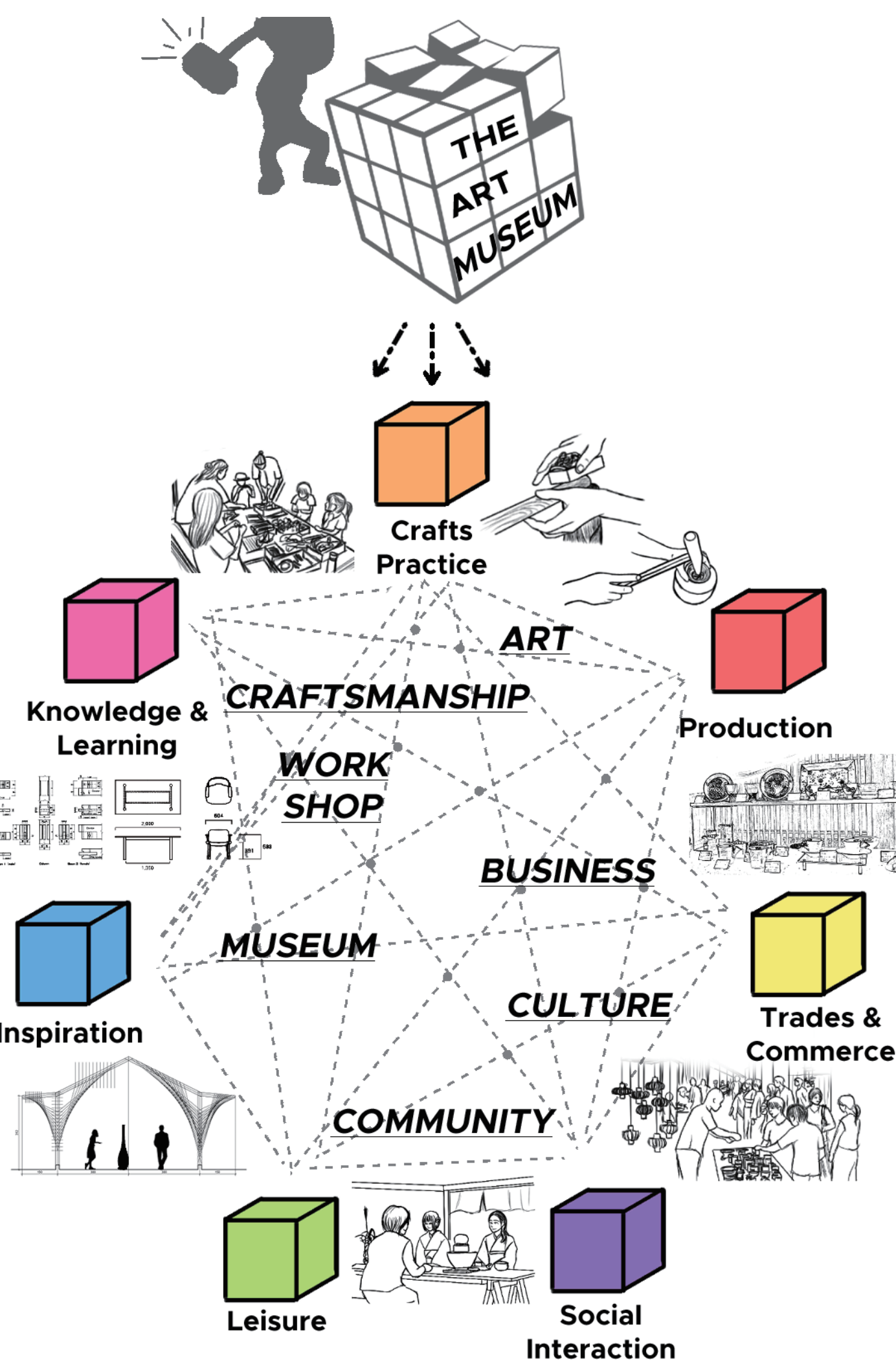
MSc. Architecture, Urbanism and Building Science
5050251 Yosua Adisapta Pranata Andoko



The CRAFT museum is a new concept for a de-institutionalised art museum. Art in this museum is not limited to exclusively protected masterpiece that is out of visitors' reach. The CRAFT museum is a public space for visitors to not only see art, but also learn, interact, and create art.

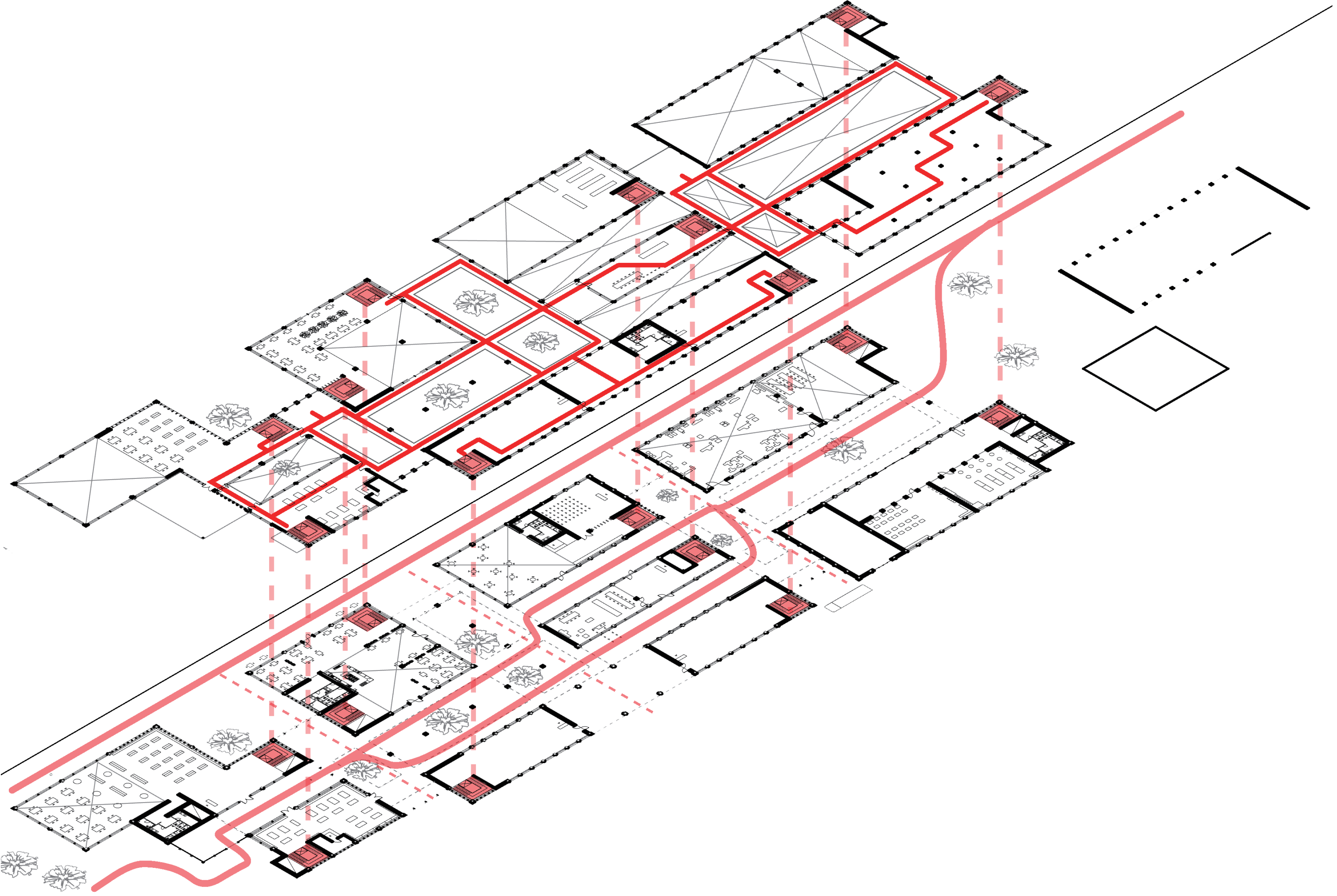
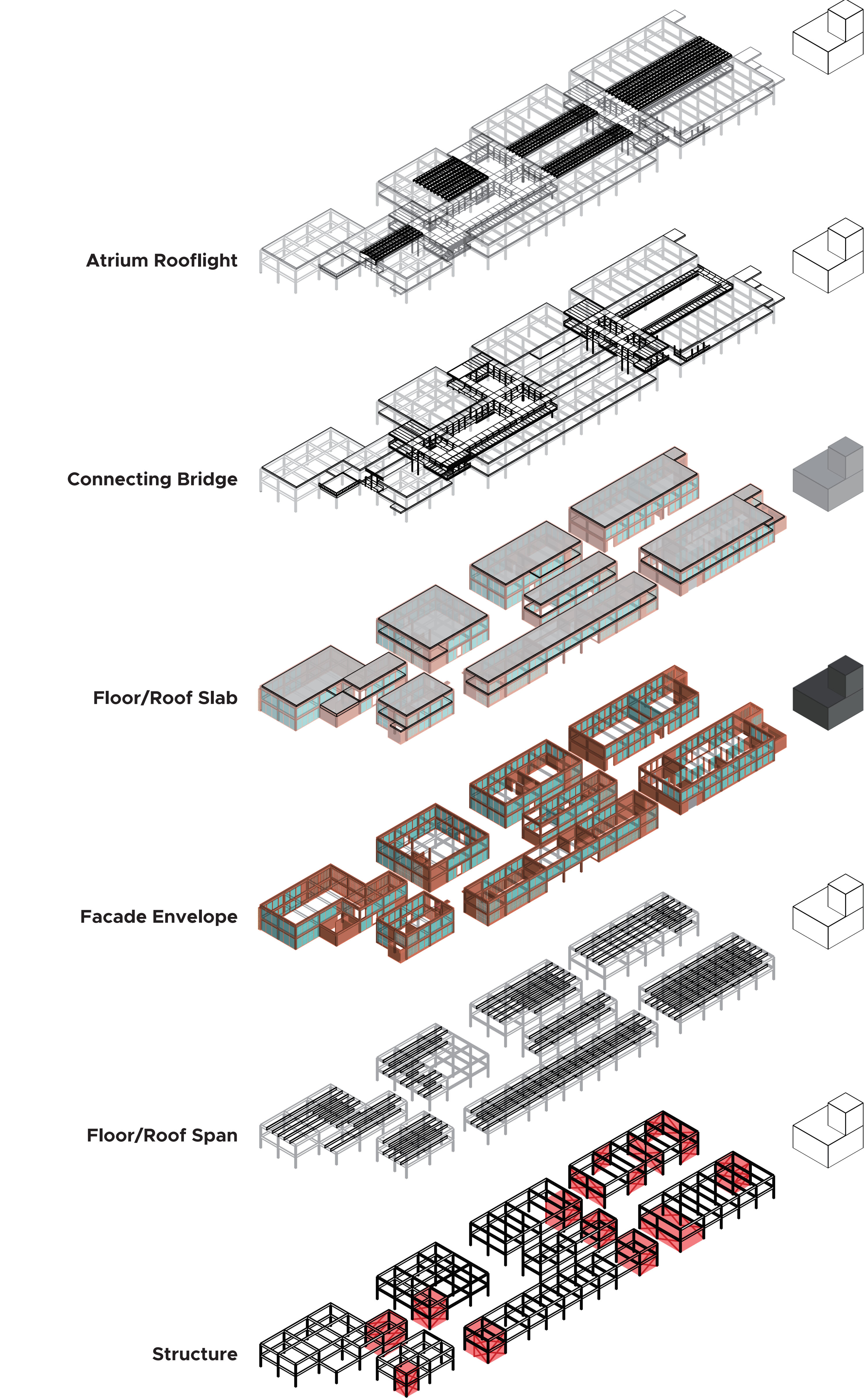
Besides protected indoor exhibition that highlights the craftsmanship of the masters, the museum also offers interactive semi-outdoor mode of exhibition. Artworks in this space also acts as urban furnitures, which visitors can directly touch and interact with. This museum displays art in a diversified modes of interaction. The museum aims to empower visitors to take active participation and experience art directly while at the same time emphasising the artistic value of the crafts expertise of master artisans.

The museum complex offers multiplicity of facilities to induce cross-interaction between visitors, creators, and the artworks itself in the form of discussions, collaborative workshops, and active interaction with the exhibited works of art. This is the Community-based Relational Art Factory of Tarwewijk



Building Construction Diagram

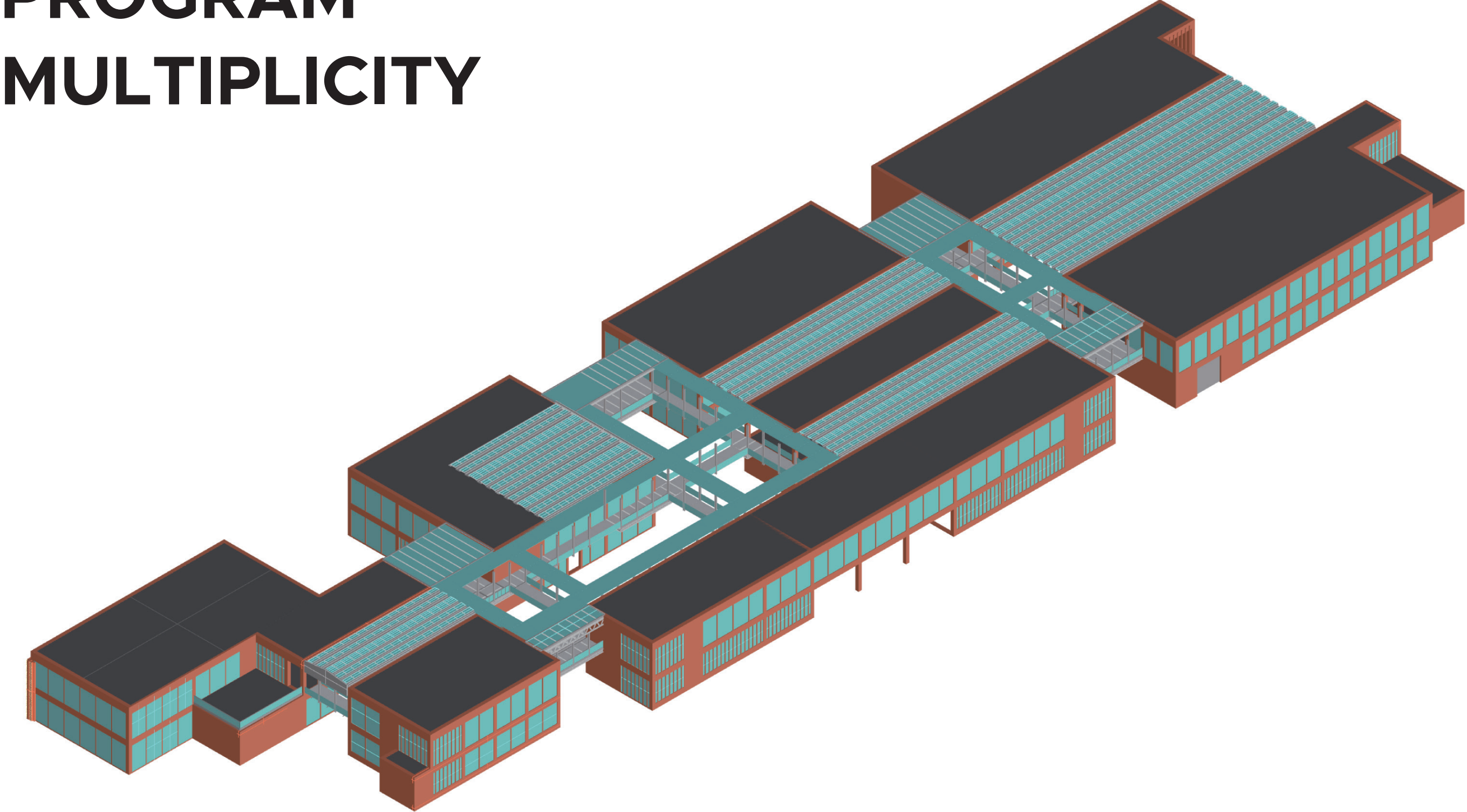
Indoor Routing



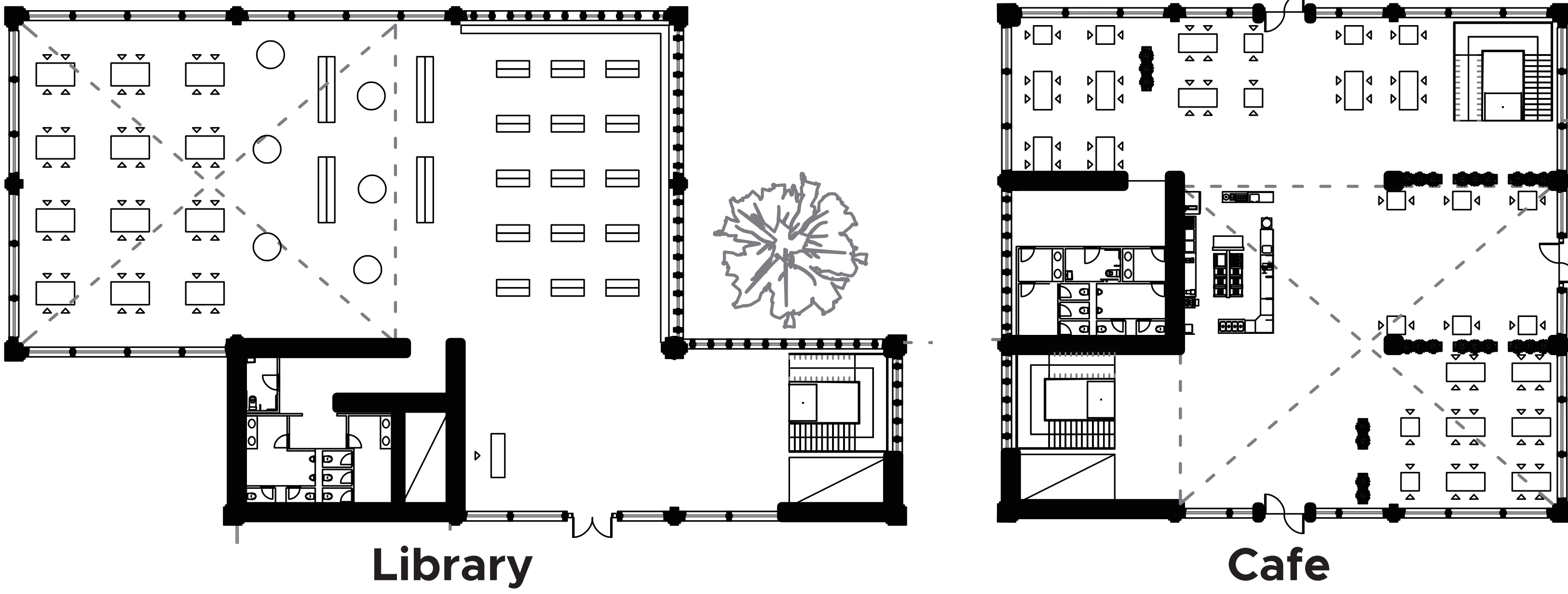
Access from Neighbourhood



PROGRAM
MULTIPLICITY

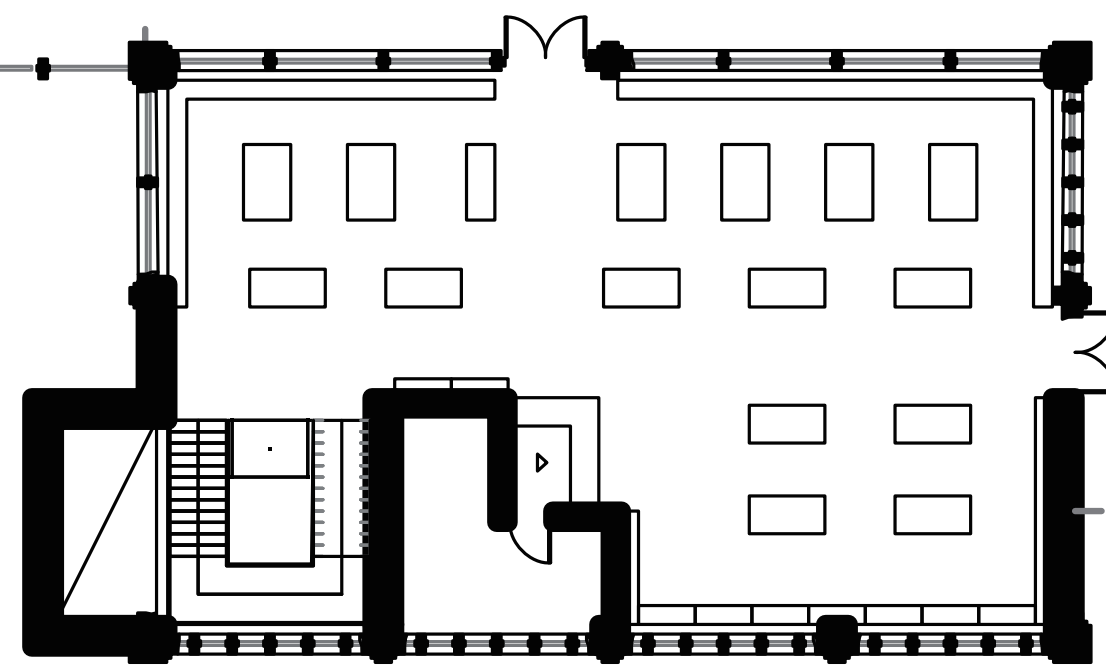


Cluster Components 1:200 Floor Plans

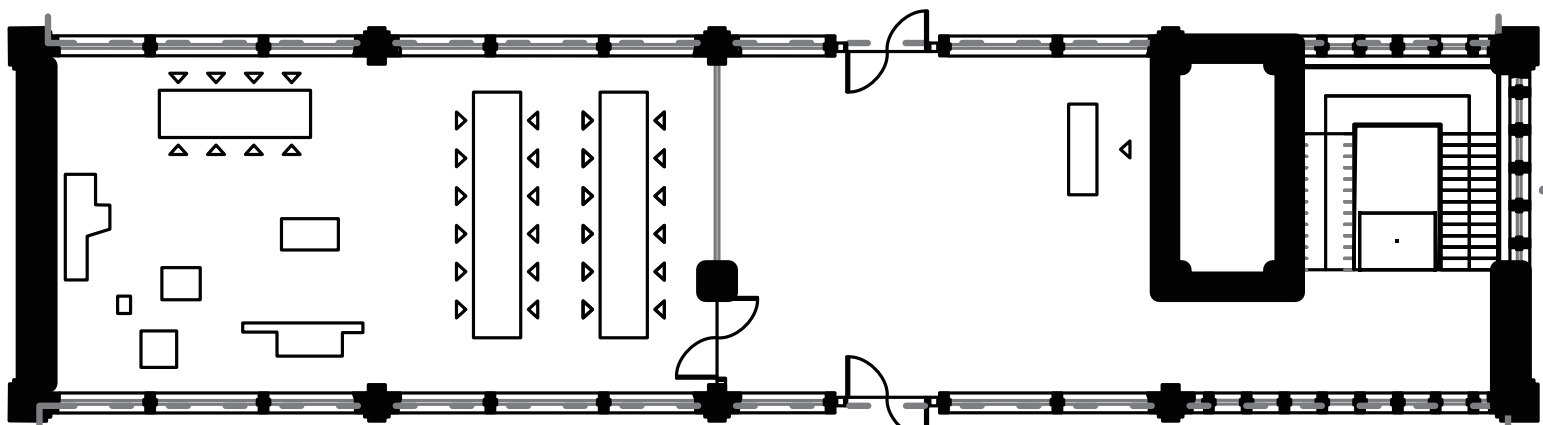


Library

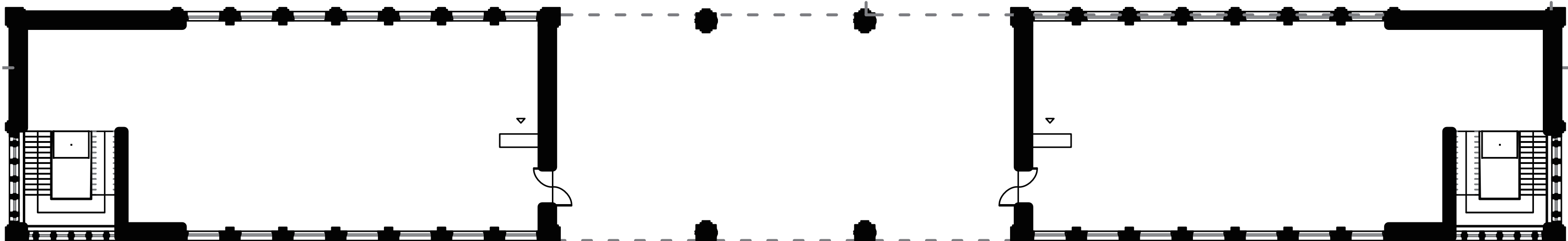
Cafe



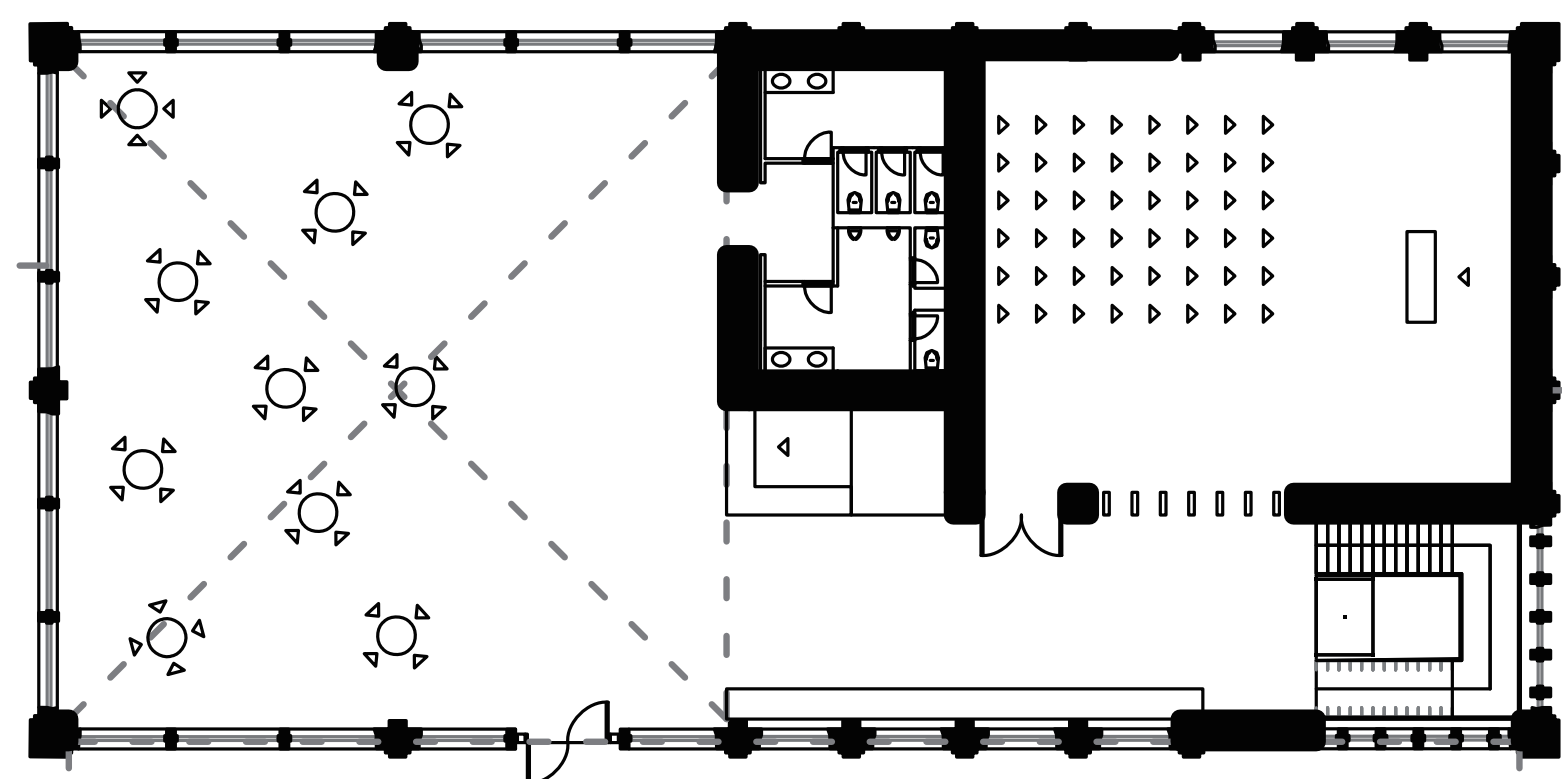
Crafts Shop



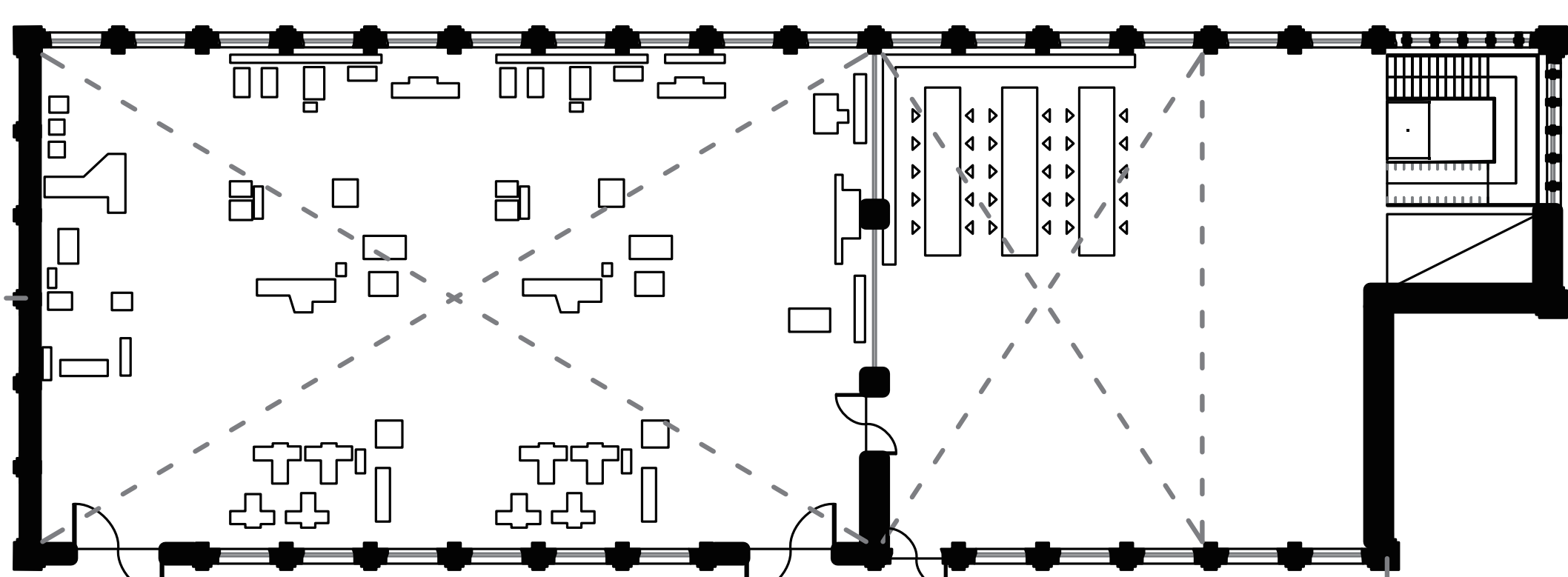
Learning Workshop



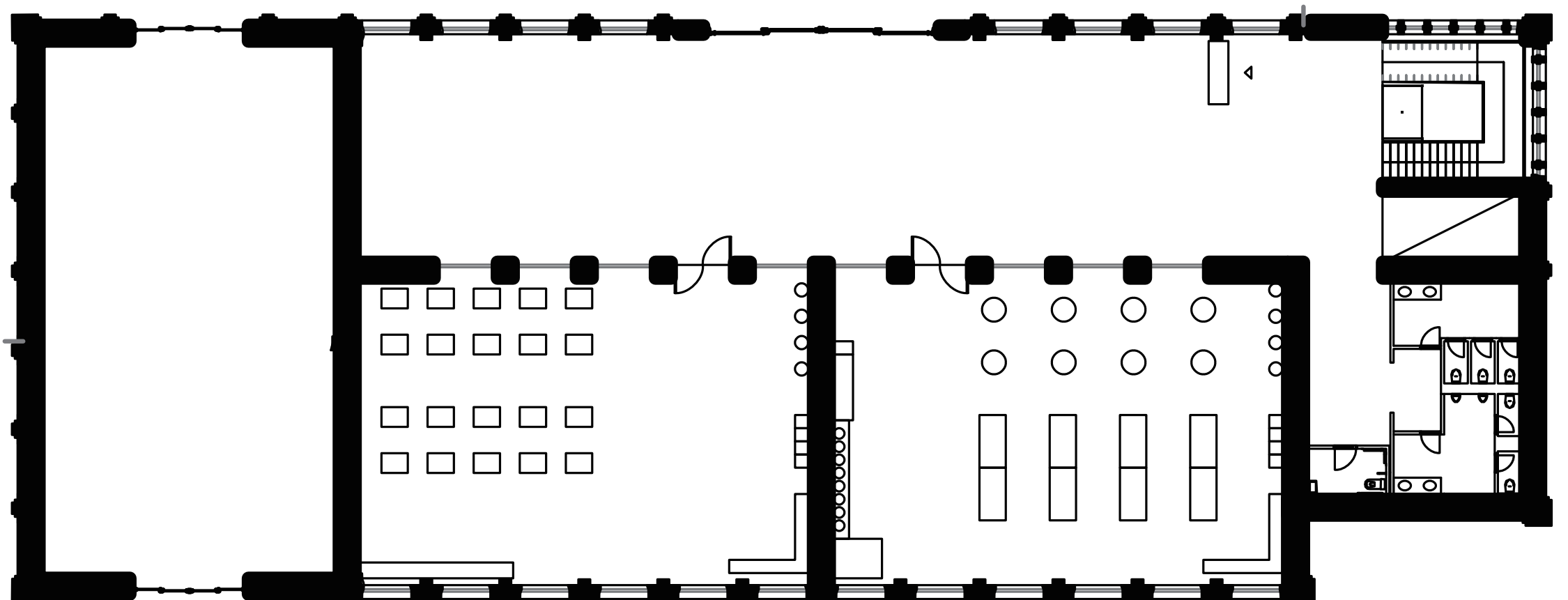
Inspiration Museum



Community Centre & Lecture Hall

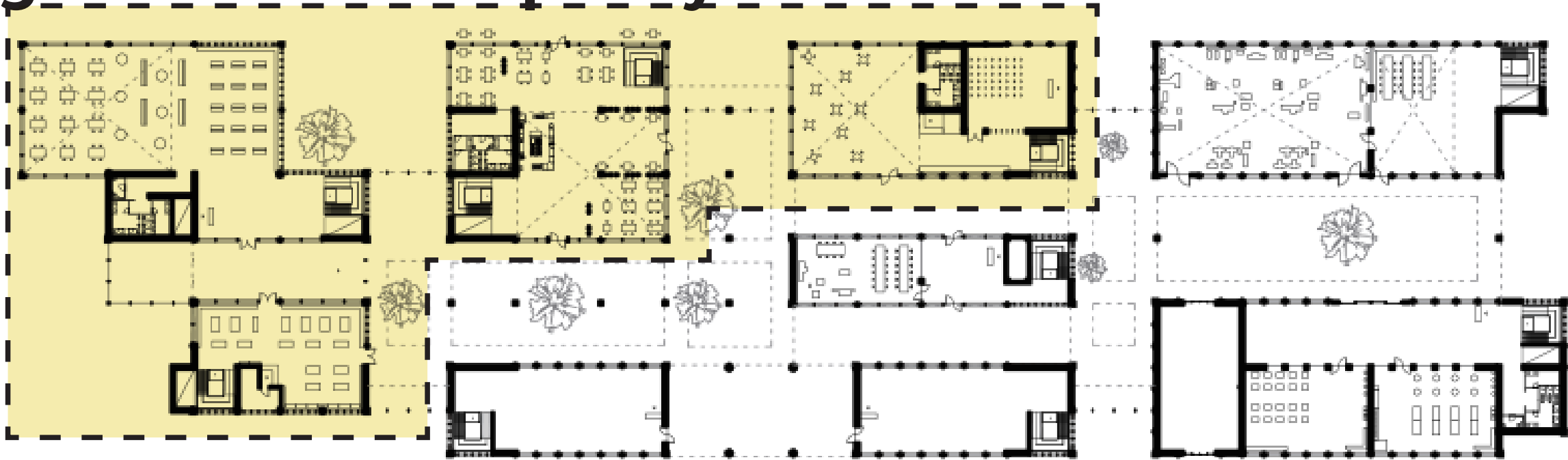


Production Machinery Hall



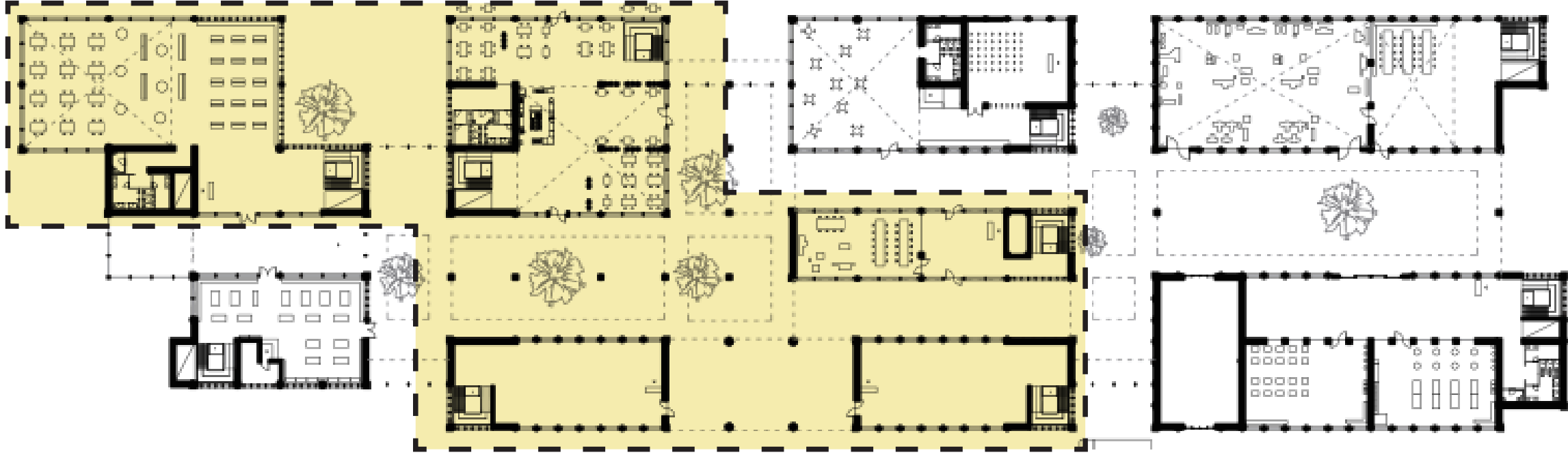
Artist Studio

Programmatic Multiplicity



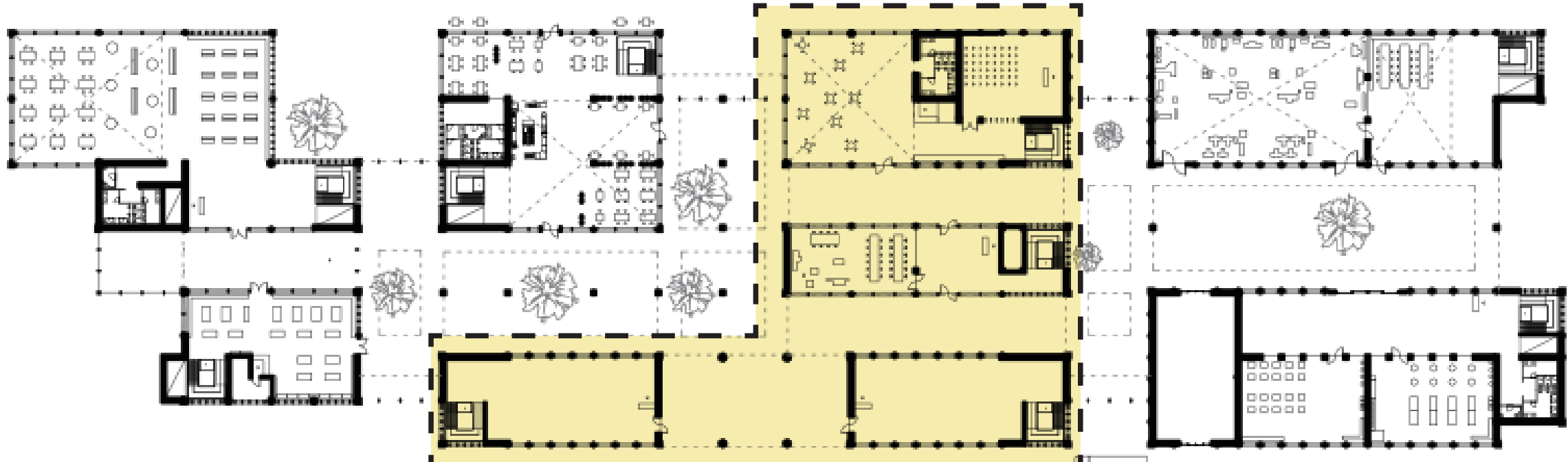
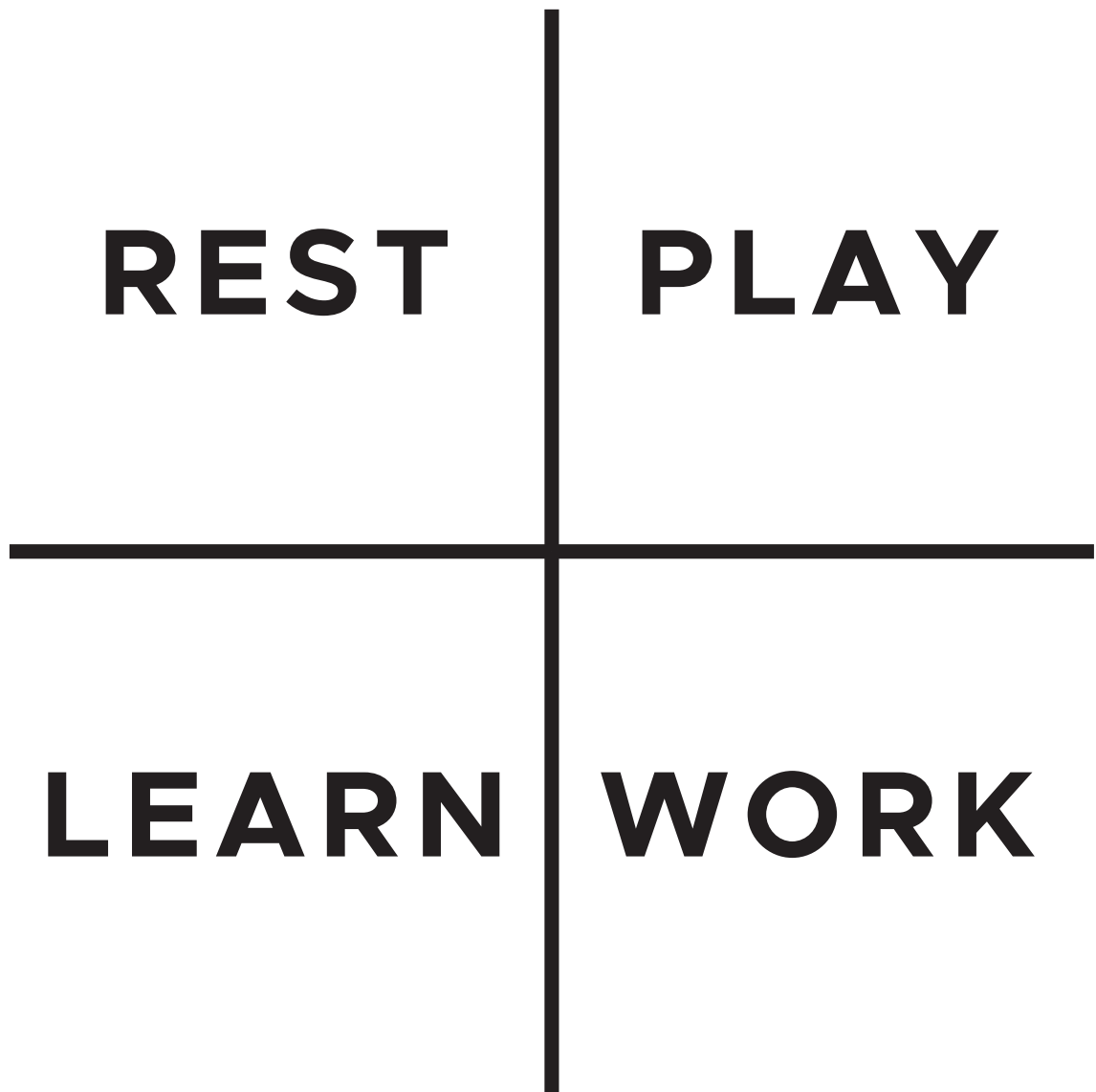
socio-cultural cluster

- Library: knowledge exchange & archive
- Shop: promotion & trade of crafts
- Cafe: leisure & social interaction
- Public Hall: community gathering & event



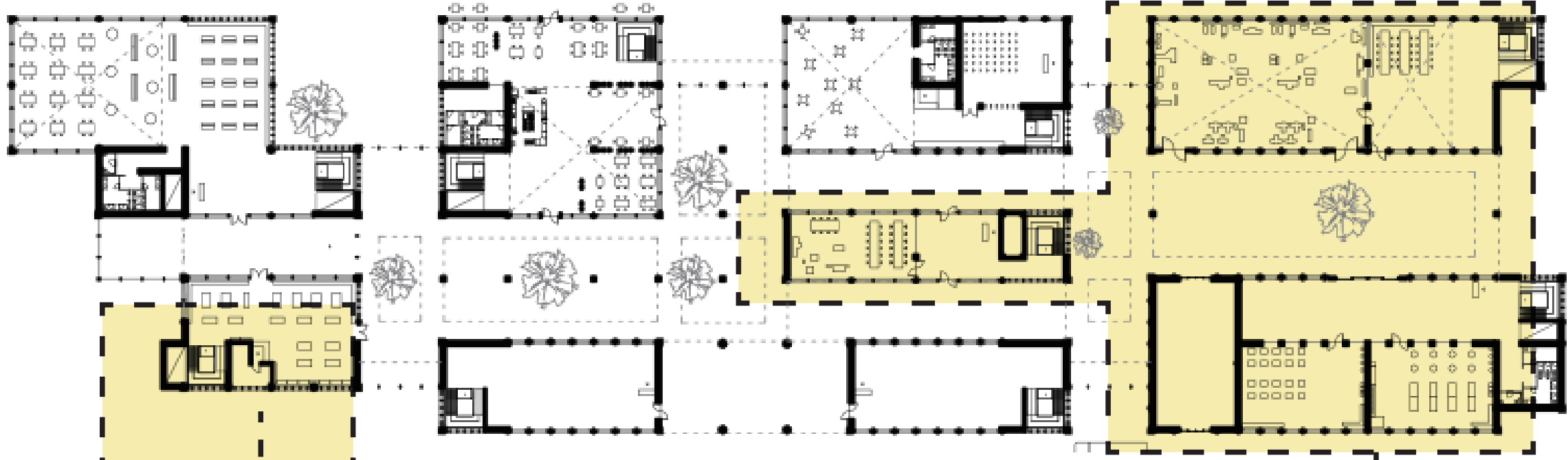
collaborative learning cluster

- Library: theoretical knowledge
- Cafe: group discussion & meeting
- Workshop: practical training
- Inspiration Museum: idea generation and physical references



crafts tour/leisure cluster

- Public hall: crafts event & expo
- Workshop: amateur trial workshops
- Inspiration Museum: appreciation of crafts masterpiece



professional production cluster

- Production Hall: large scale crafts production (furniture, wooden shelter)
- Artist Studio: small scale crafts production (accessories, tablewares)
- Workshop: collaborative idea generation & cross-learning
- Shop: Distribution of non-exhibition crafts products

1:1000 Ground Floor Plan

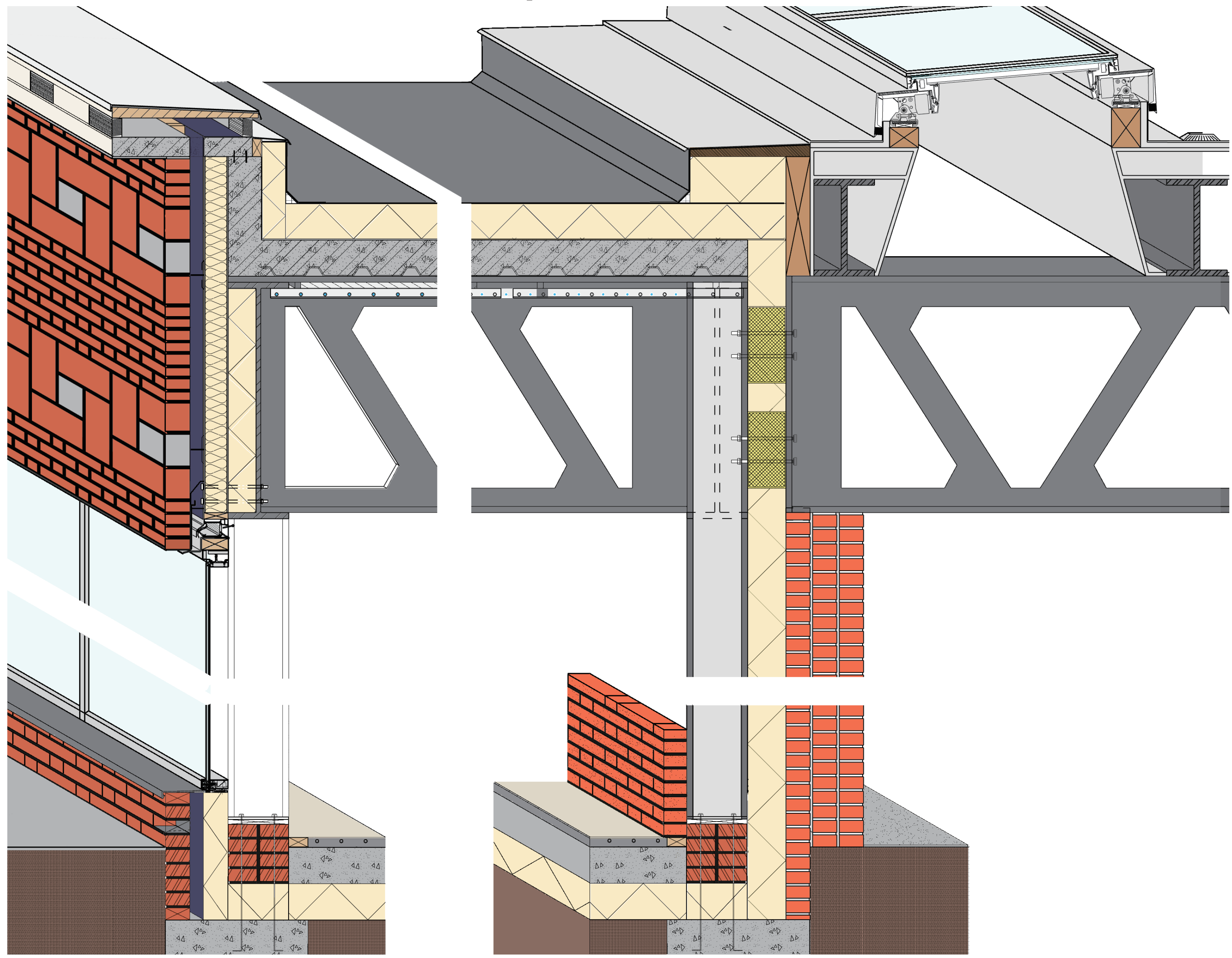


1:1000 1st Floor Plan

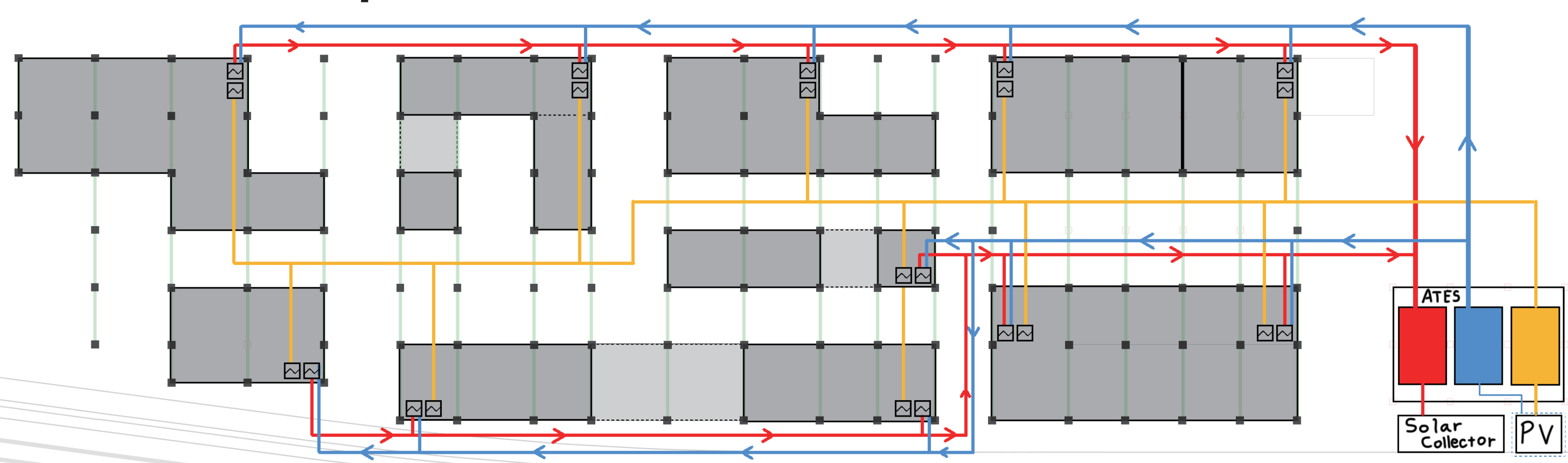


CLIMATE & CONSTRUCTION

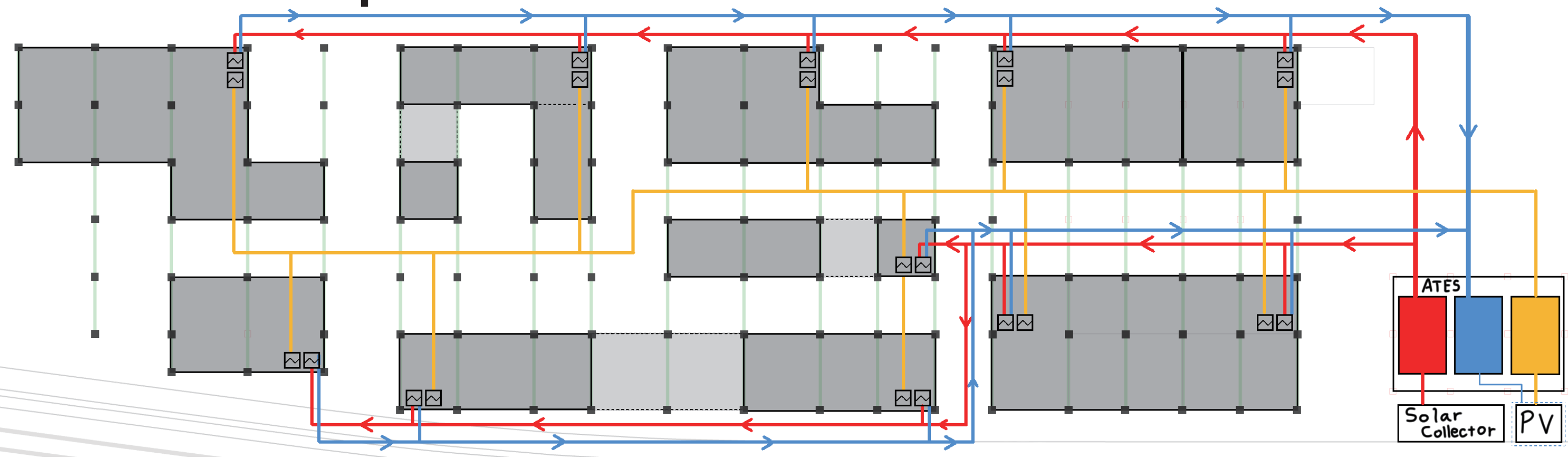
1:10 Section & Facade Concept



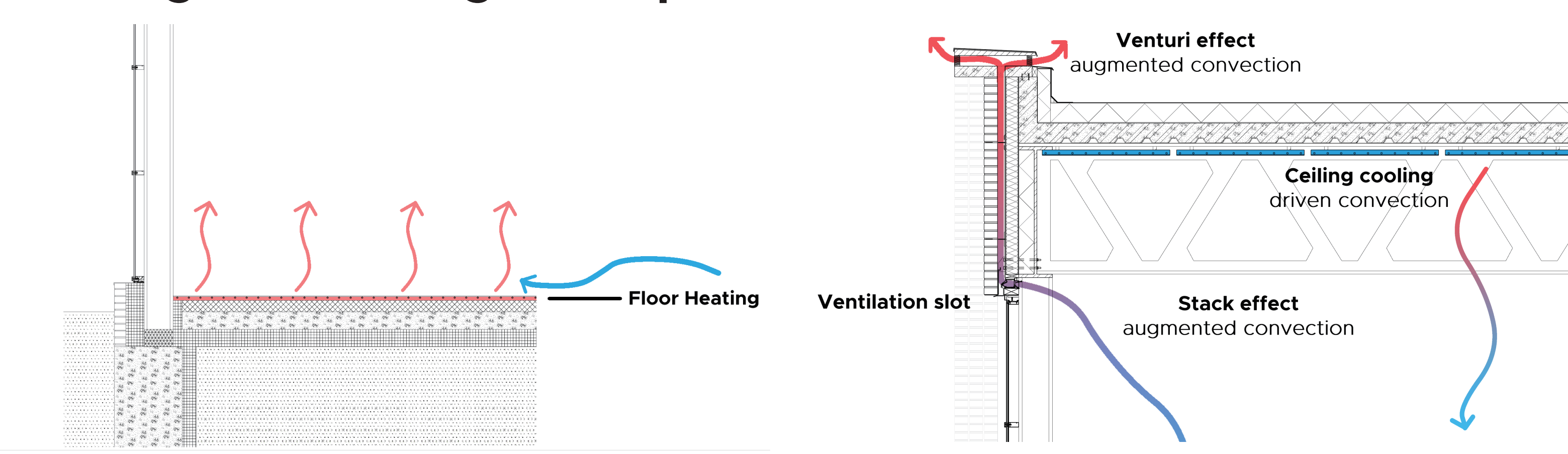
Climate Concept - Summer



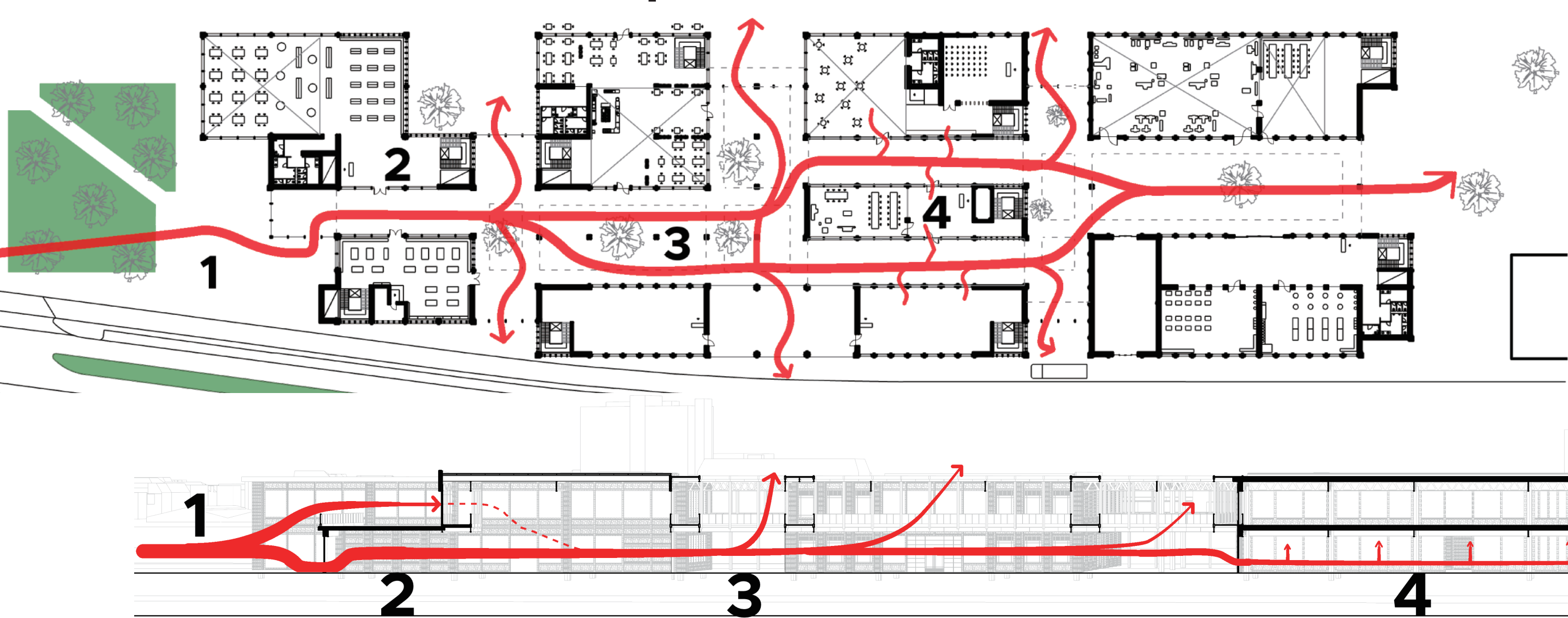
Climate Concept - Winter



Heating and Cooling Concept



Natural Ventilation Concept



1:5 Detail - Roof + Venturi Chimney

- 1 flashing
air ventilation fins
painted reinforced concrete
- 2 brick masonry 100mm
brick tie
ventilation cavity 50mm
insulated structural panel 100mm
rigid insulation 150mm
steel joist h=1000mm w=250mm
- 3 structural steel beam h=1000mm
reinforced concrete roof slab 150mm
rigid insulation 150mm
waterproofing membrane

1:5 Detail - Opening

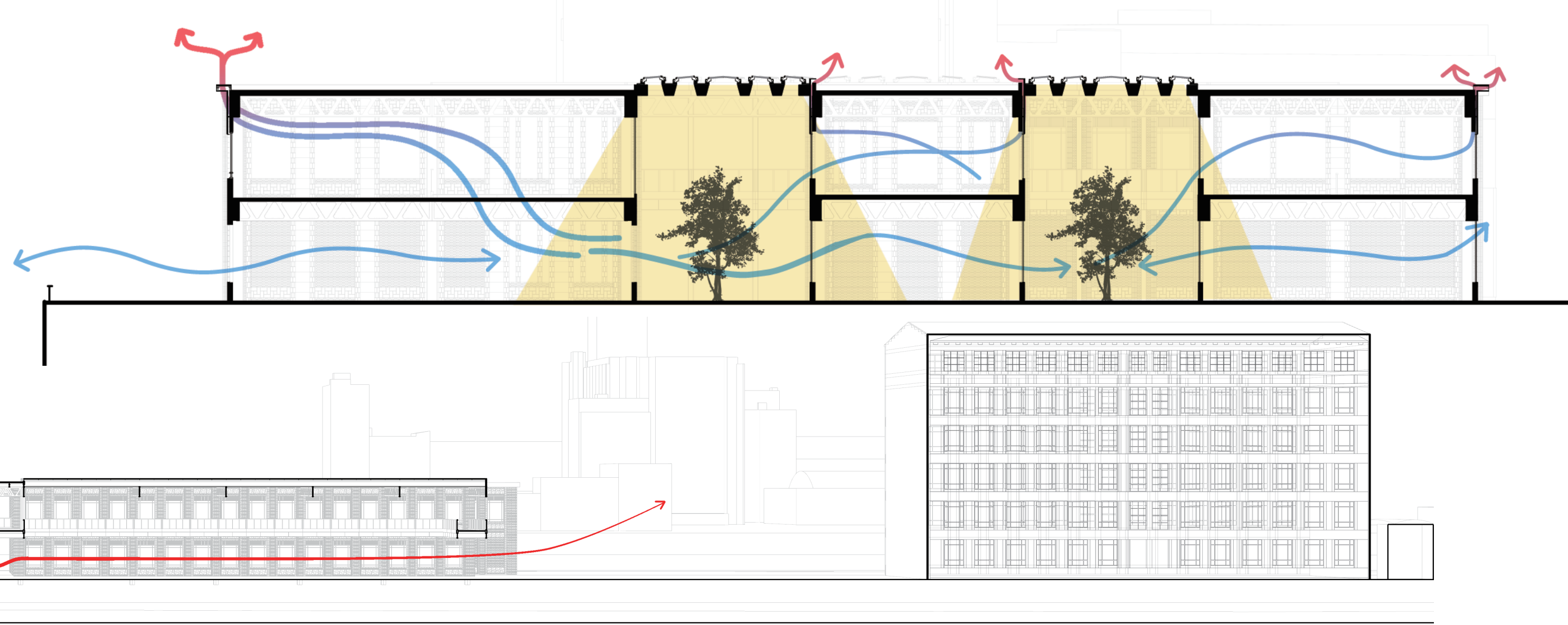
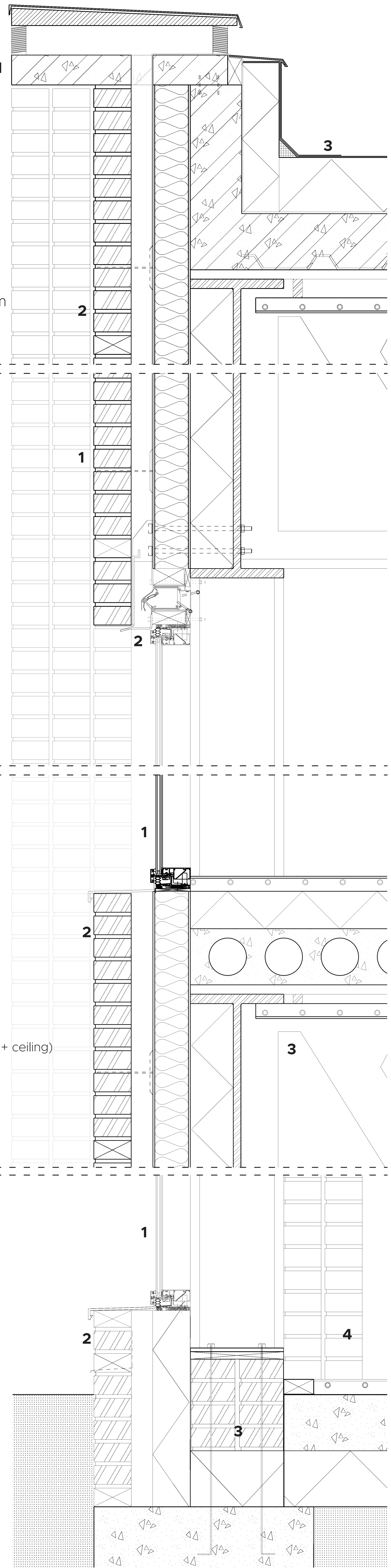
- 1 brick masonry 100mm
steel L-profile lintel
(lintel attachment module + bolts)
ventilation cavity 50mm
insulated structural panel 100mm
rigid insulation 150mm
steel joist h=1000mm w=250mm
- 2 ventilation slot
moisture flashing
spacer
curtain wall frame

1:5 Detail - Ceiling/Floor Slab

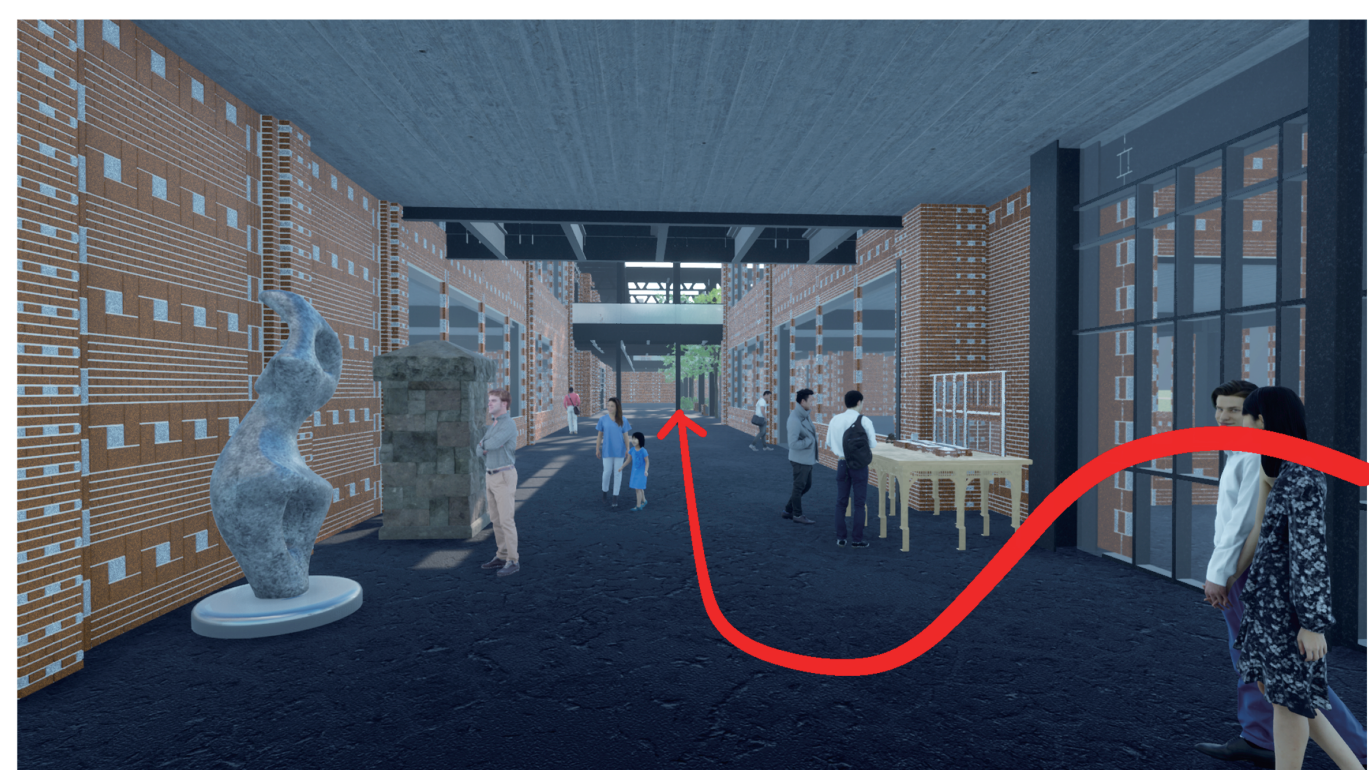
- 1 curtain wall exterior cap 15mm
double-glazed glass 26mm
aluminium frame 80mm
steel stud 50mm
- 2 brick masonry 100mm
brick tie
ventilation cavity 50mm
insulated structural panel 100mm
rigid insulation 150mm
steel joist h=1000mm w=250mm
- 3 ceiling cooling panel
cooling pipes d=10mm
steel frame 25mm (fixed to structural beam + ceiling)
hollow core concrete slab 150mm
rigid insulation 100mm
floor heating pipes d=10mm
screed 200mm
floor finish

1:5 Detail - Foundation

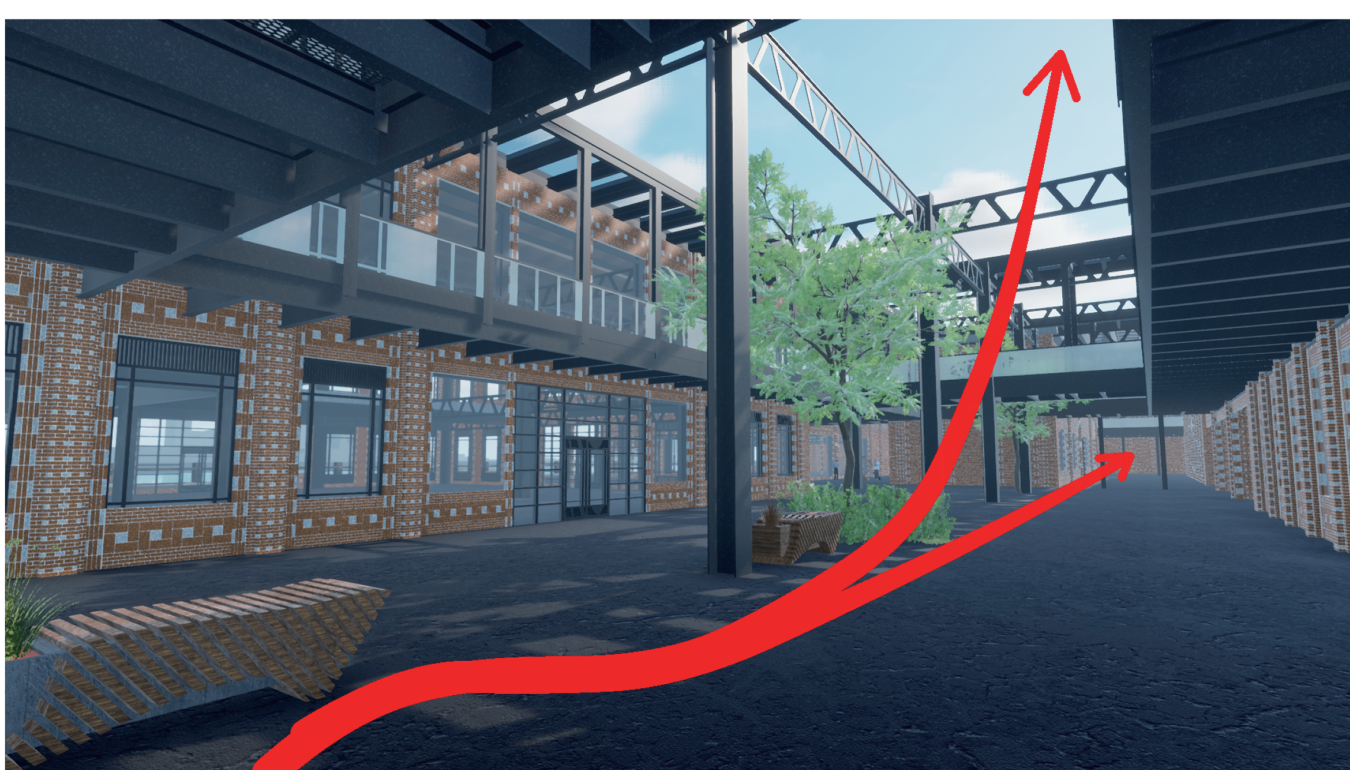
- 1 curtain wall exterior cap 15mm
double-glazed glass 26mm
aluminium frame 80mm
steel stud 50mm
- 2 brick masonry 100mm
ventilation cavity 50mm
rigid insulation 150mm
steel column 250mm
weep holes
- 3 steel column base plate
base masonry + anchor bolts
fibre glass insulation block 150mm
concrete foundation
- 4 floor finish 5mm
screed 20mm
floor heating pipes d=10mm
rigid insulation 100mm
concrete slab 150mm
rigid insulation 150mm



1



2



3



4

FACADE MATERIAL

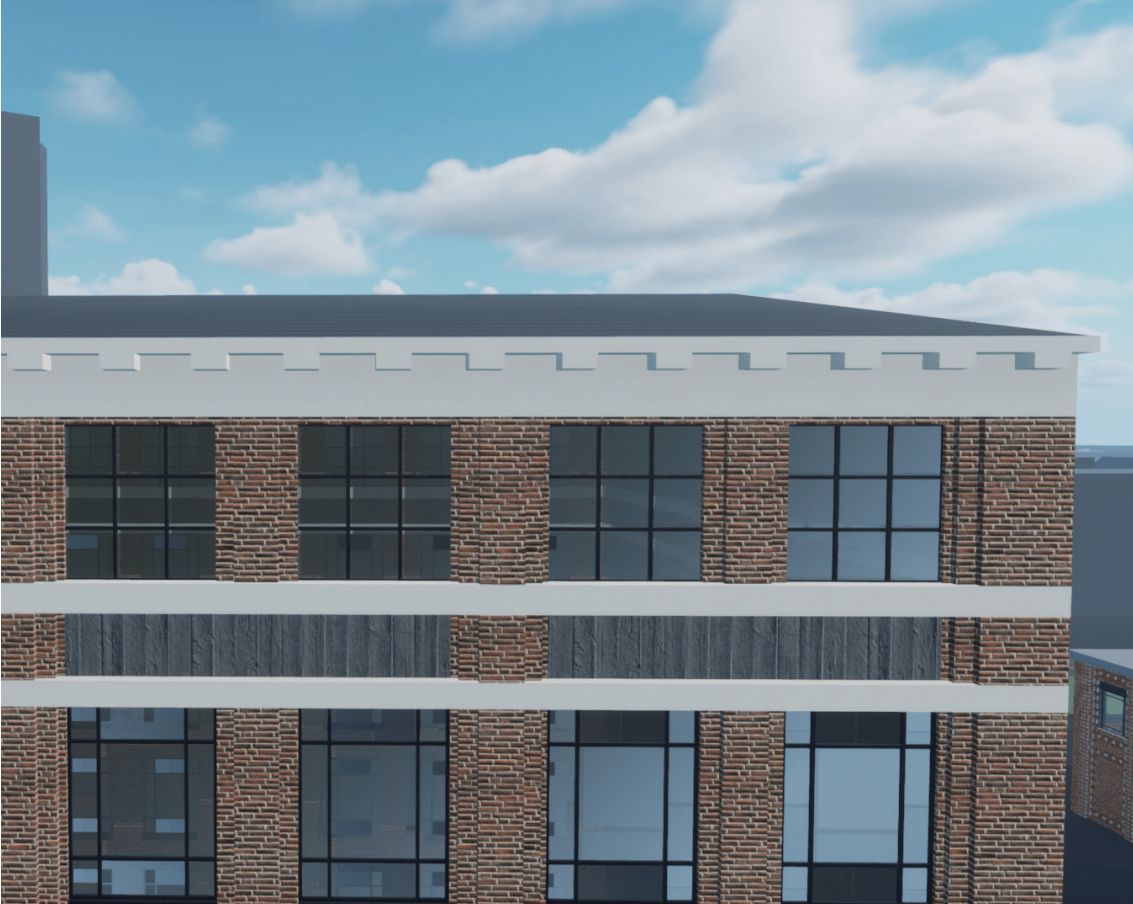
3D Reproduction of Quaker Building' s Facade



Major traits of Quaker Building

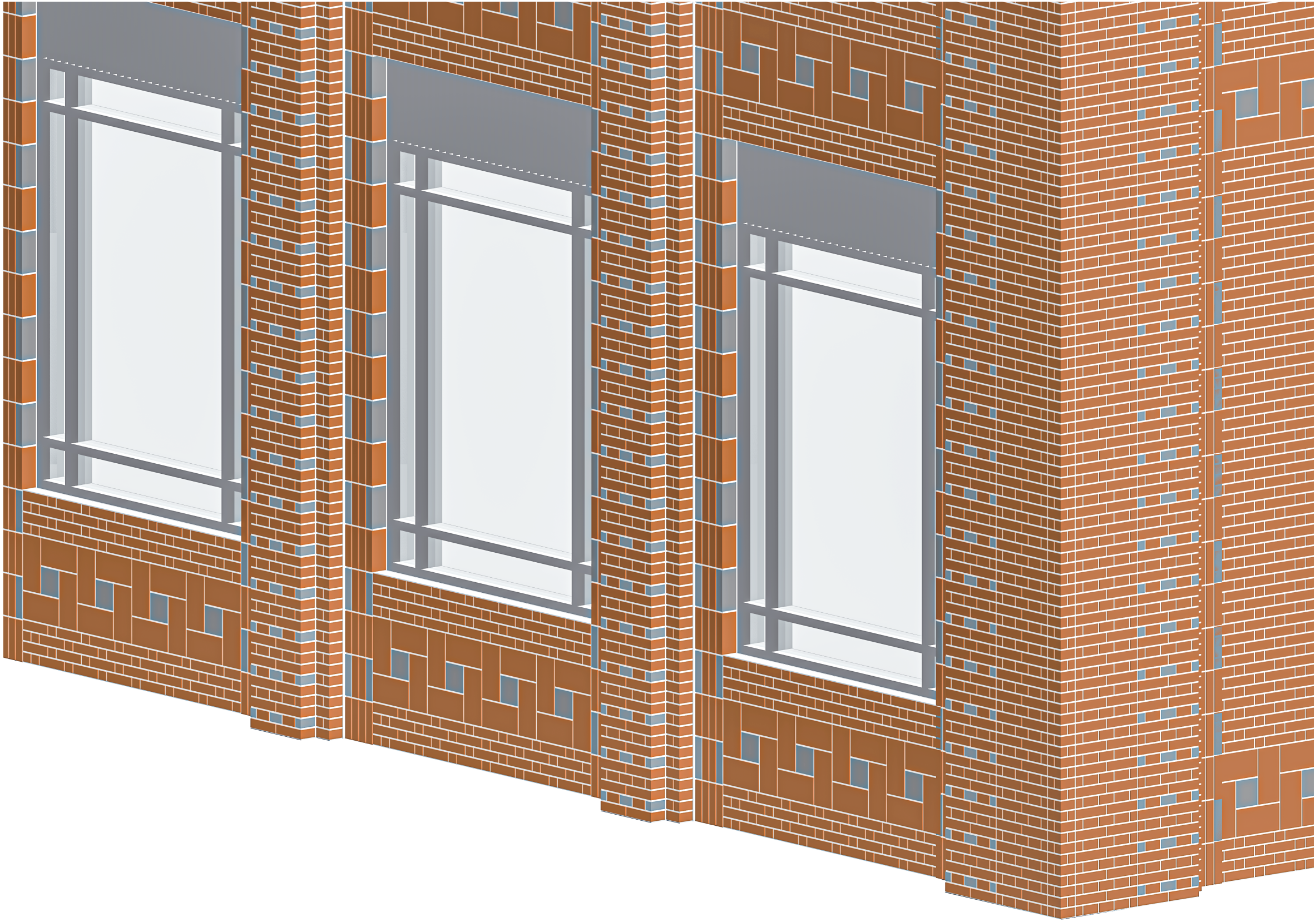
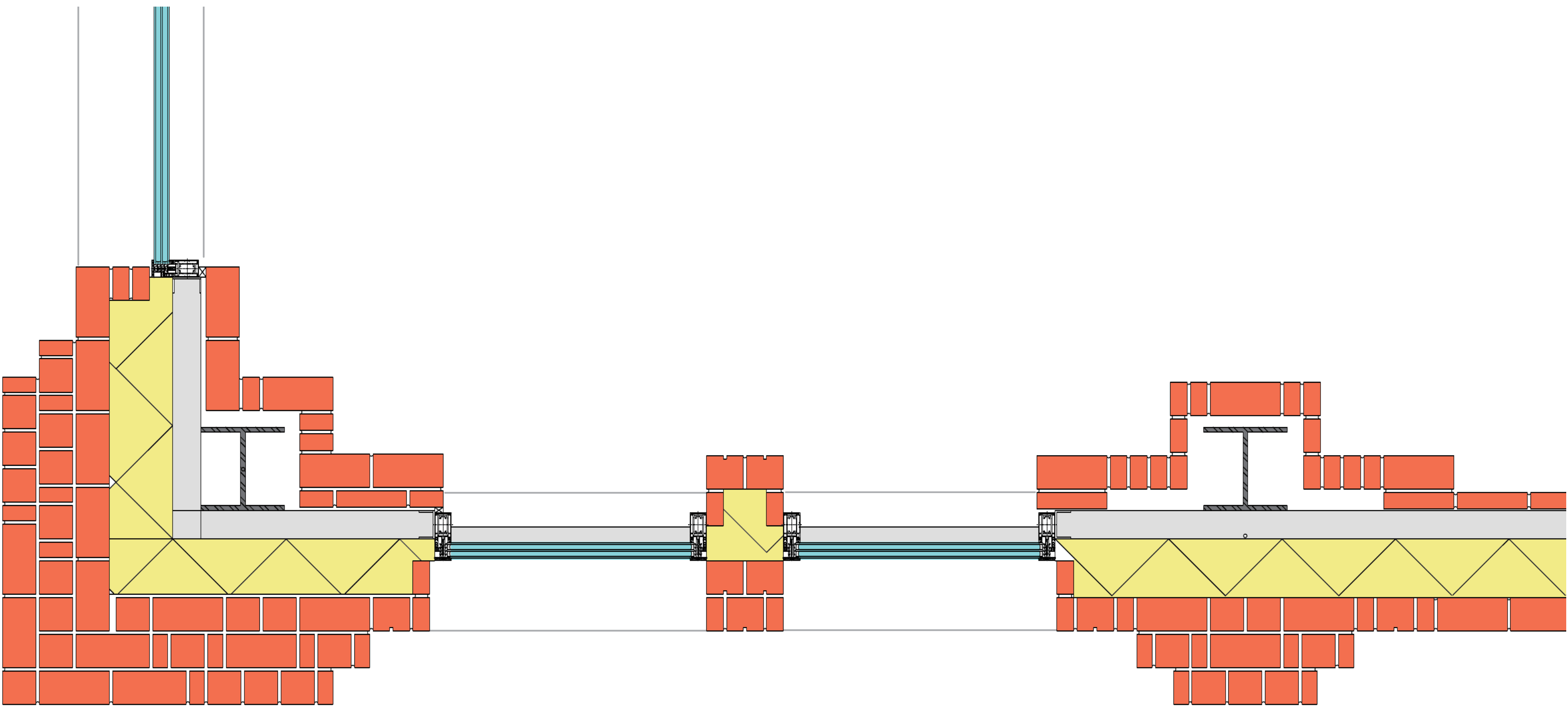


- vertical elements of 1 m width
- 3 m span distribution.
- cascaded contour of vertical elements
- recessed window position



- distinct white horizontal element of roofscape
- rhythm of overhanging roof elements
- facade variation with multiple colour shades

Quaker-inspired Facade Design



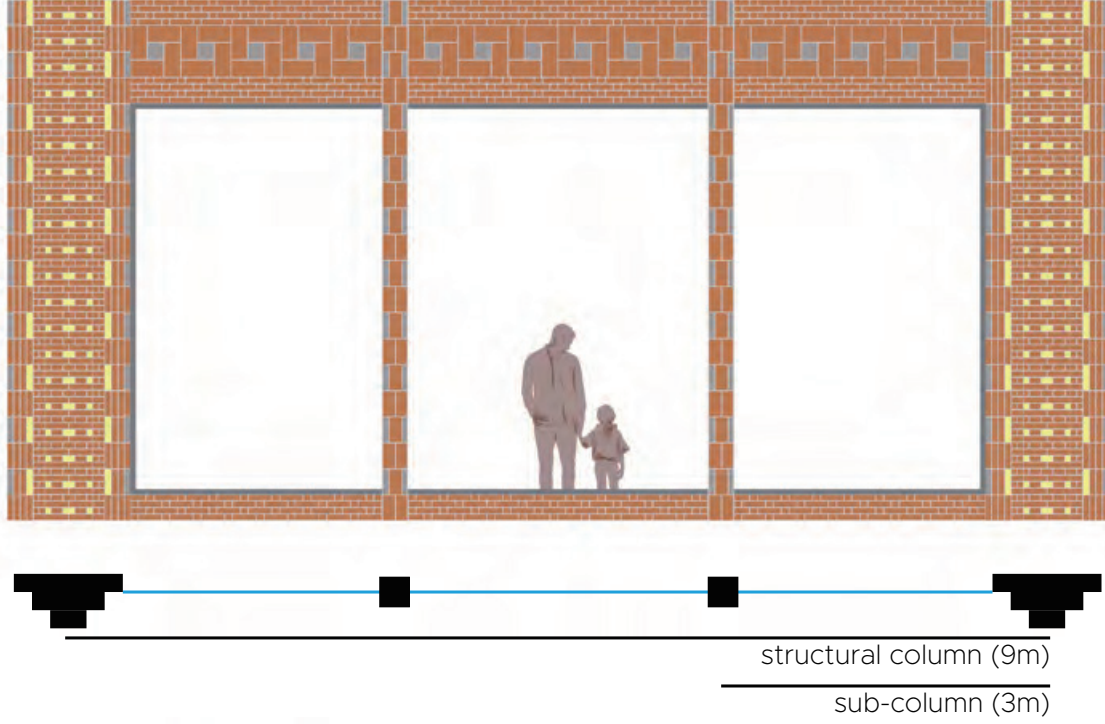
Facade study 1: Introverted space (dense brick elements)

9m span structural column; 3m span sub-column; 1m span window sub-division



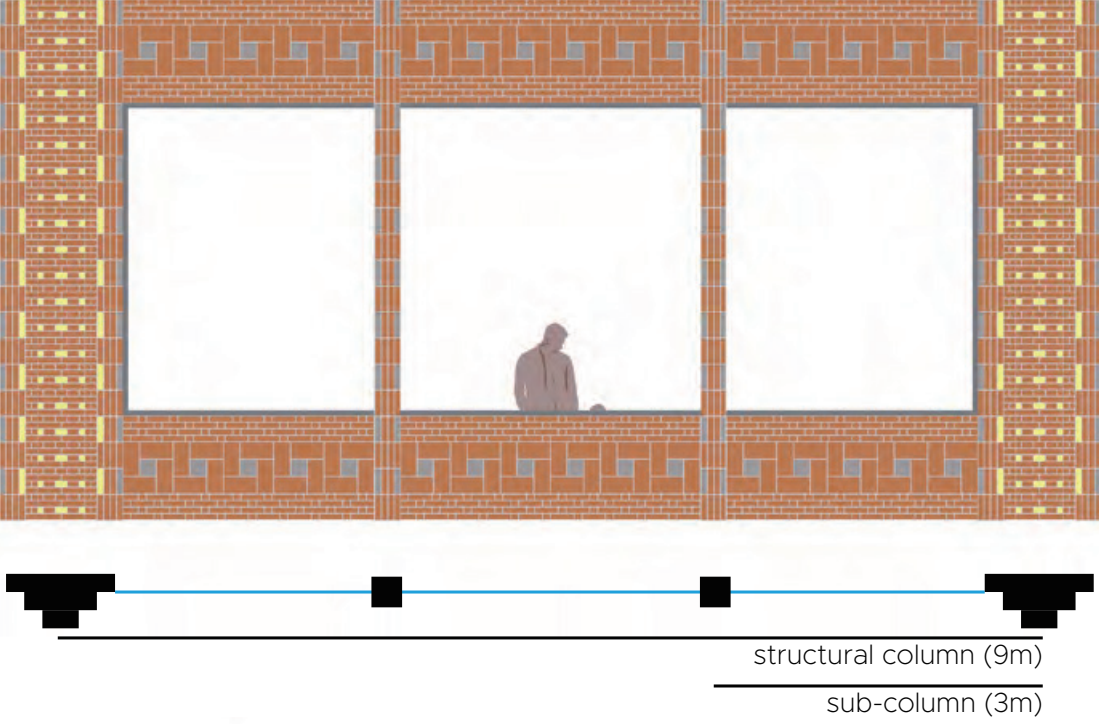
structural column (9m)
sub-column (3m)
window sub-division (1m)

Facade study 2a: Extroverted space (curtain wall)



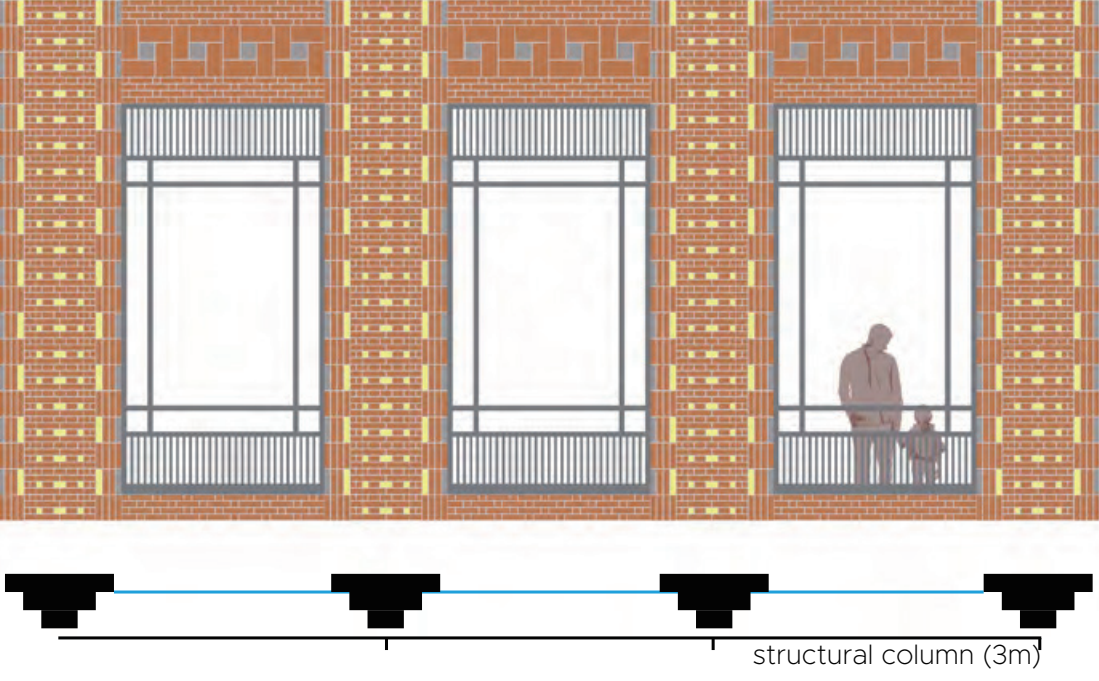
structural column (9m)
sub-column (3m)

Facade study 2b: Extroverted space (curtain wall; with low wall)



structural column (9m)
sub-column (3m)

Facade study 3a: Ambiverted space

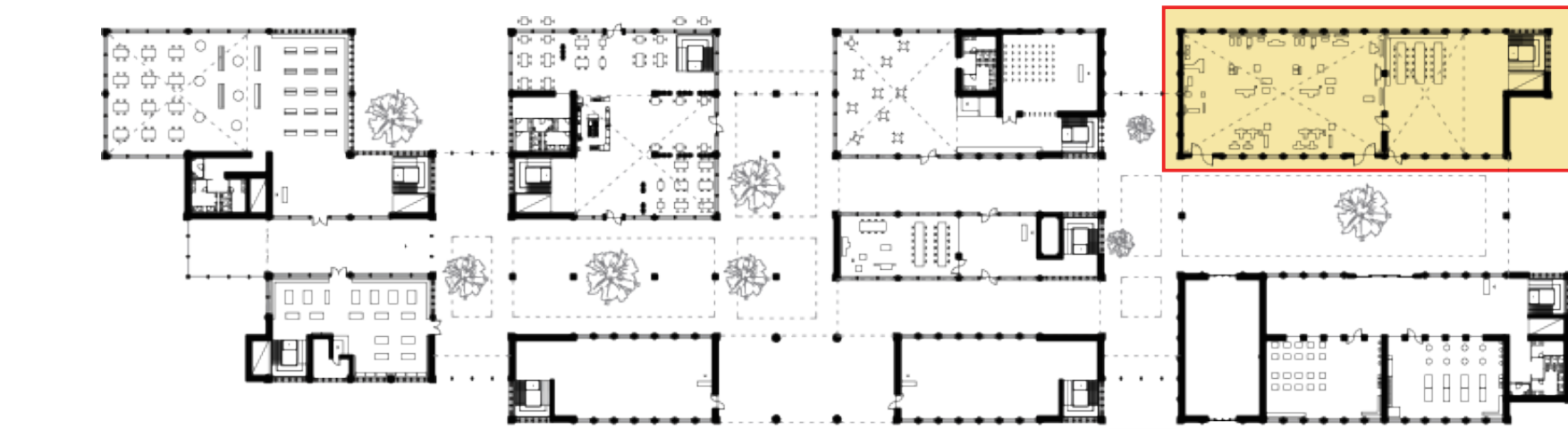


structural column (3m)

Facade study 3b: Ambiverted space (with low wall)

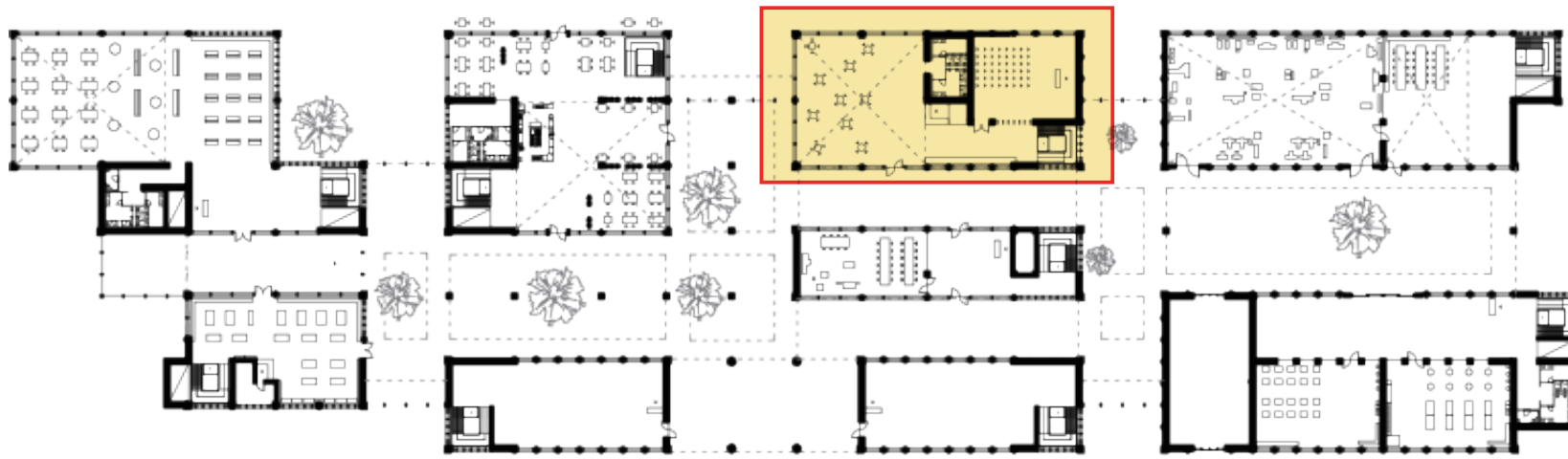
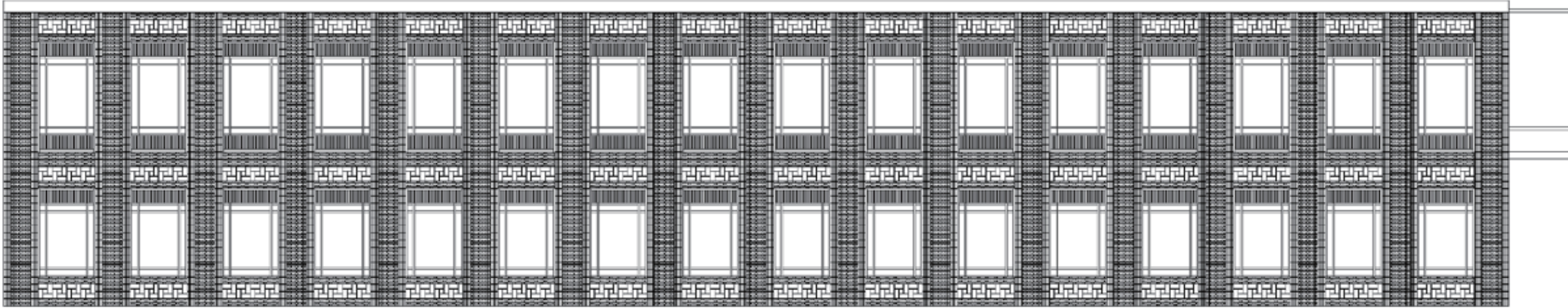


structural column (3m)



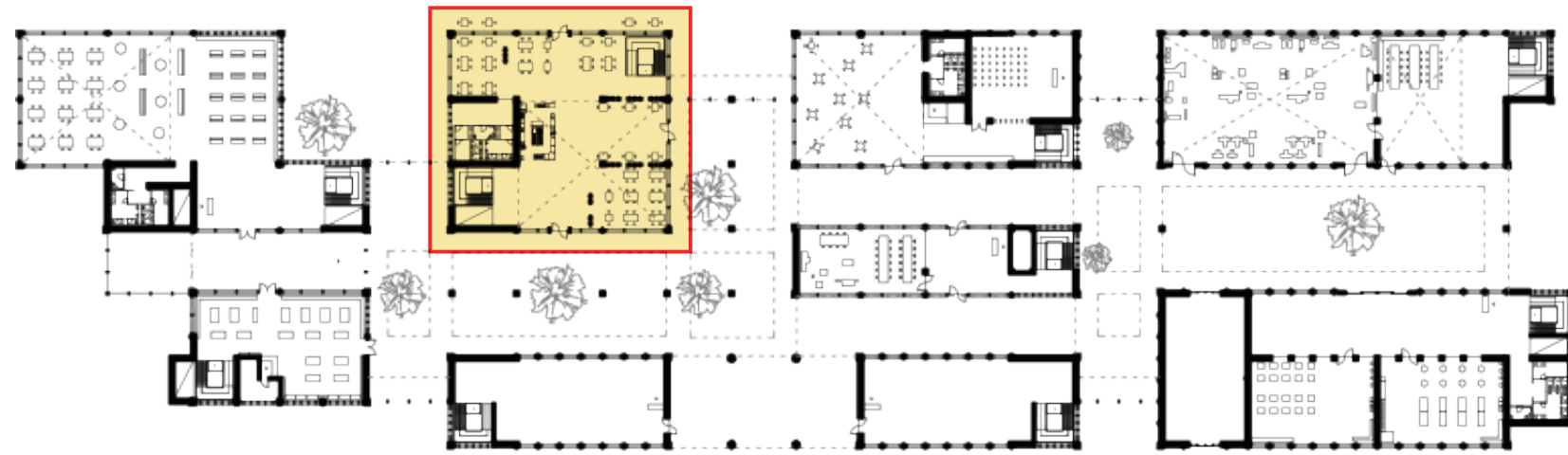
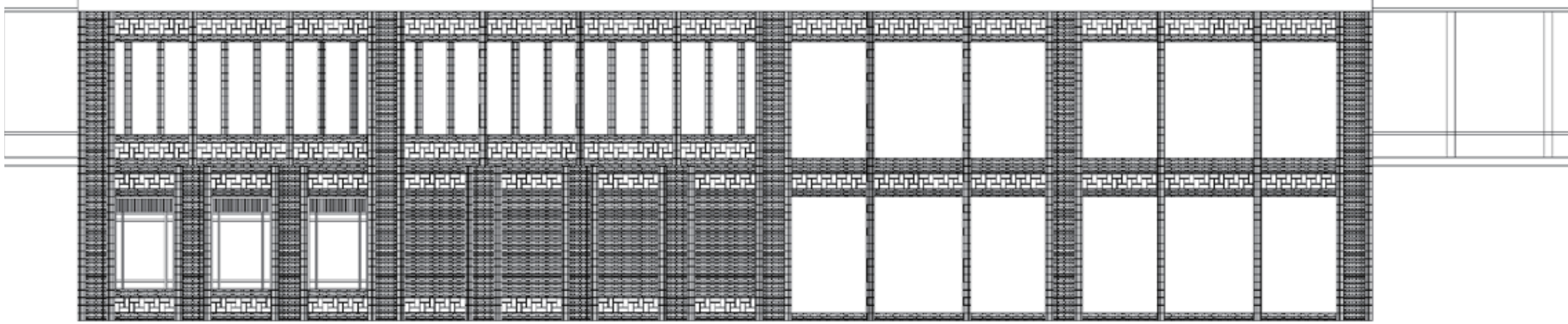
wood-& metalcrafts studio

production machine hall

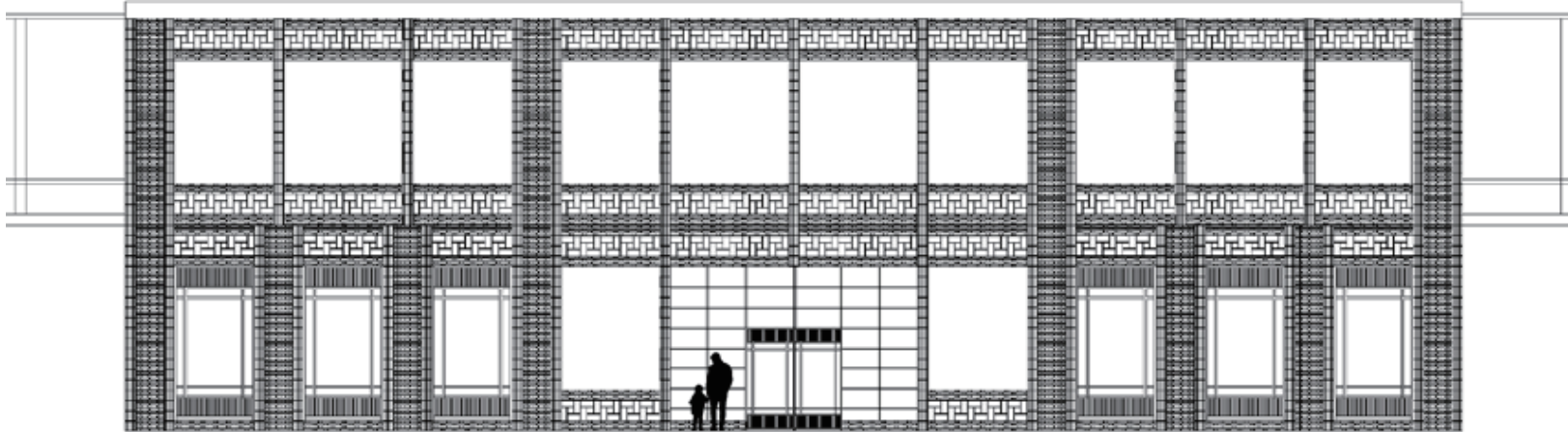


exhibition hall
lecture hall

community
centre



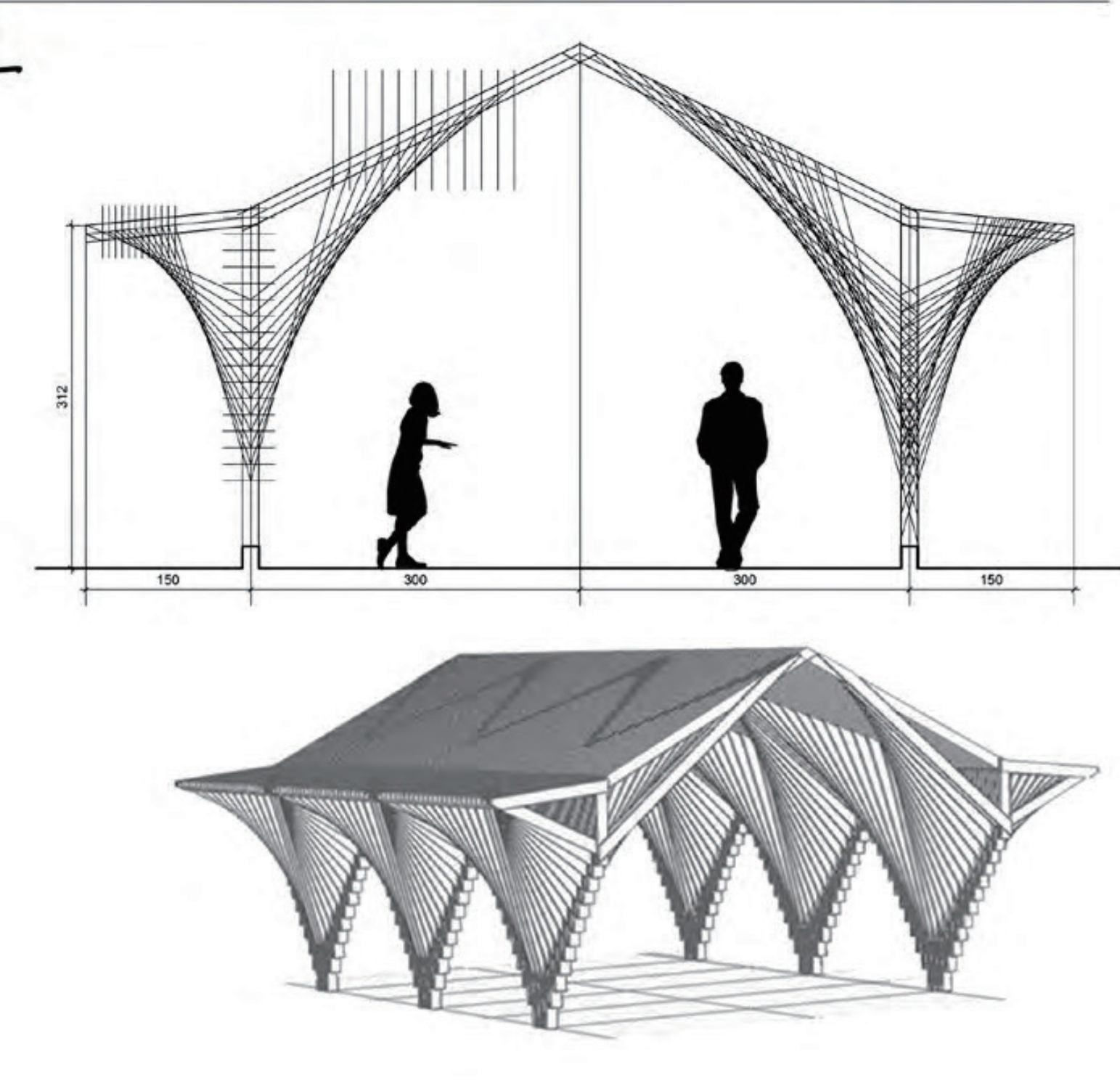
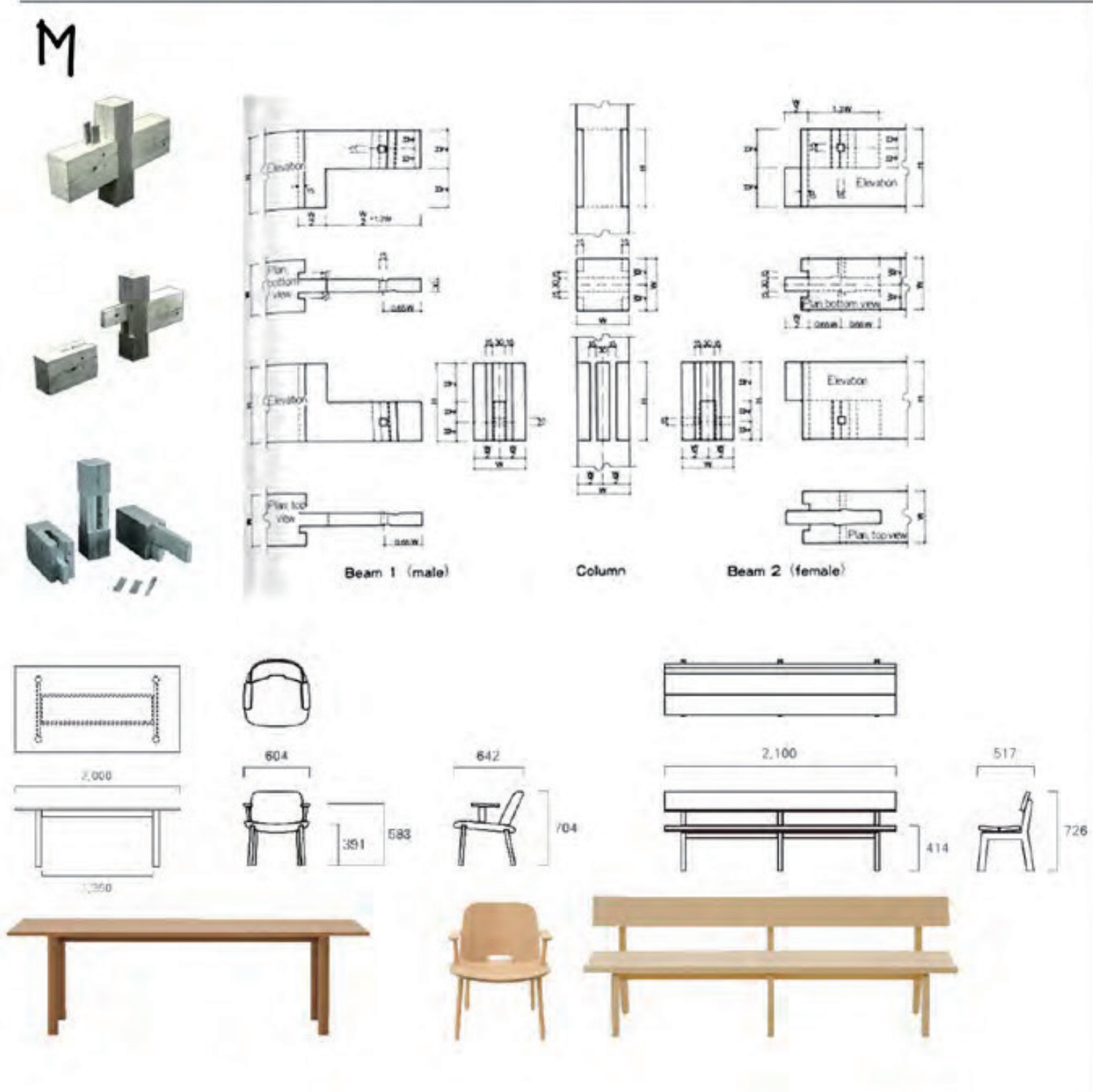
waterfront viewing cafe seats



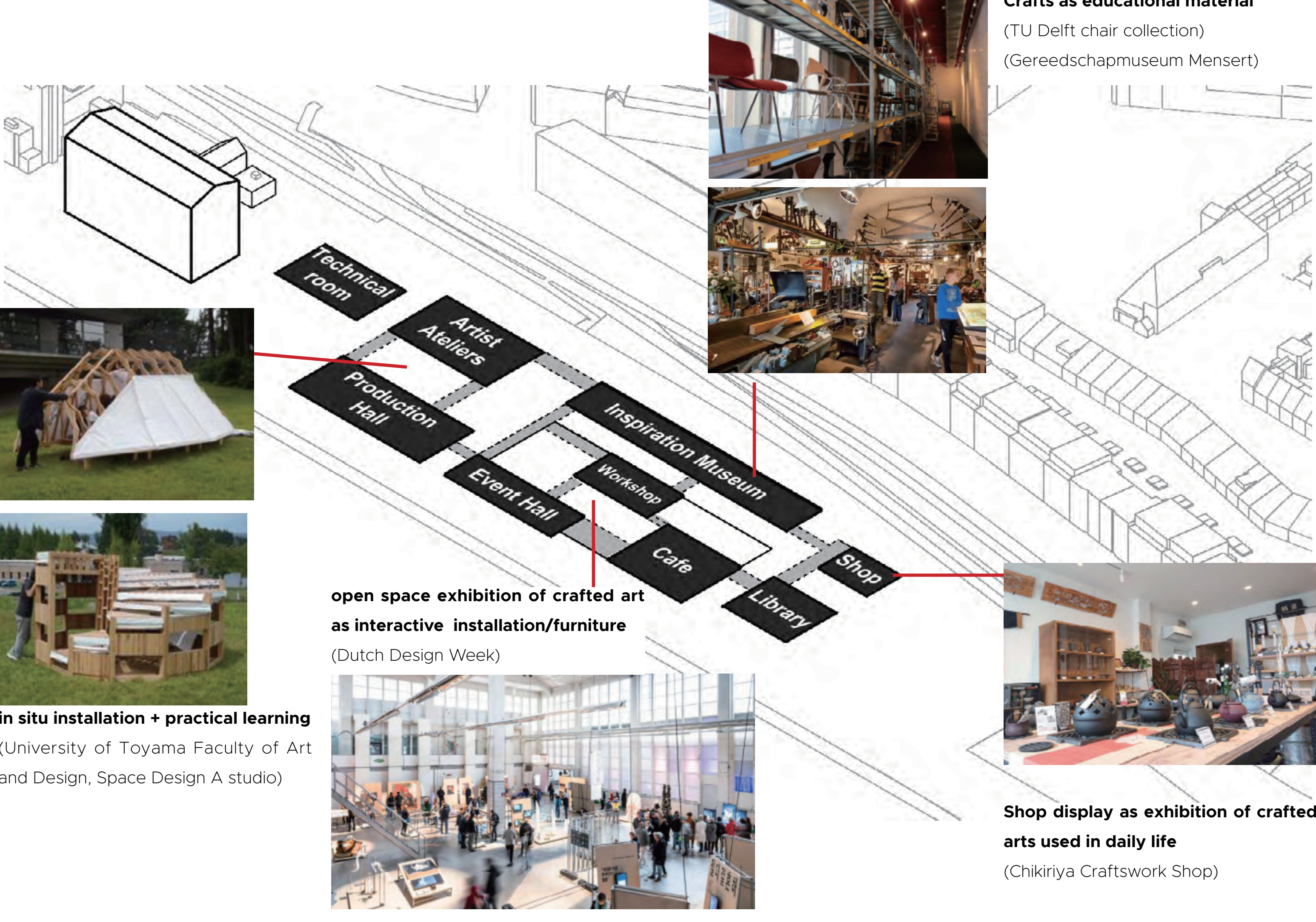
ART
DISPLAY



Art Exhibition Concept & Reference



Multiplicity of modes of exhibition & interactivity



INTERIOR IMPRESSIONS

