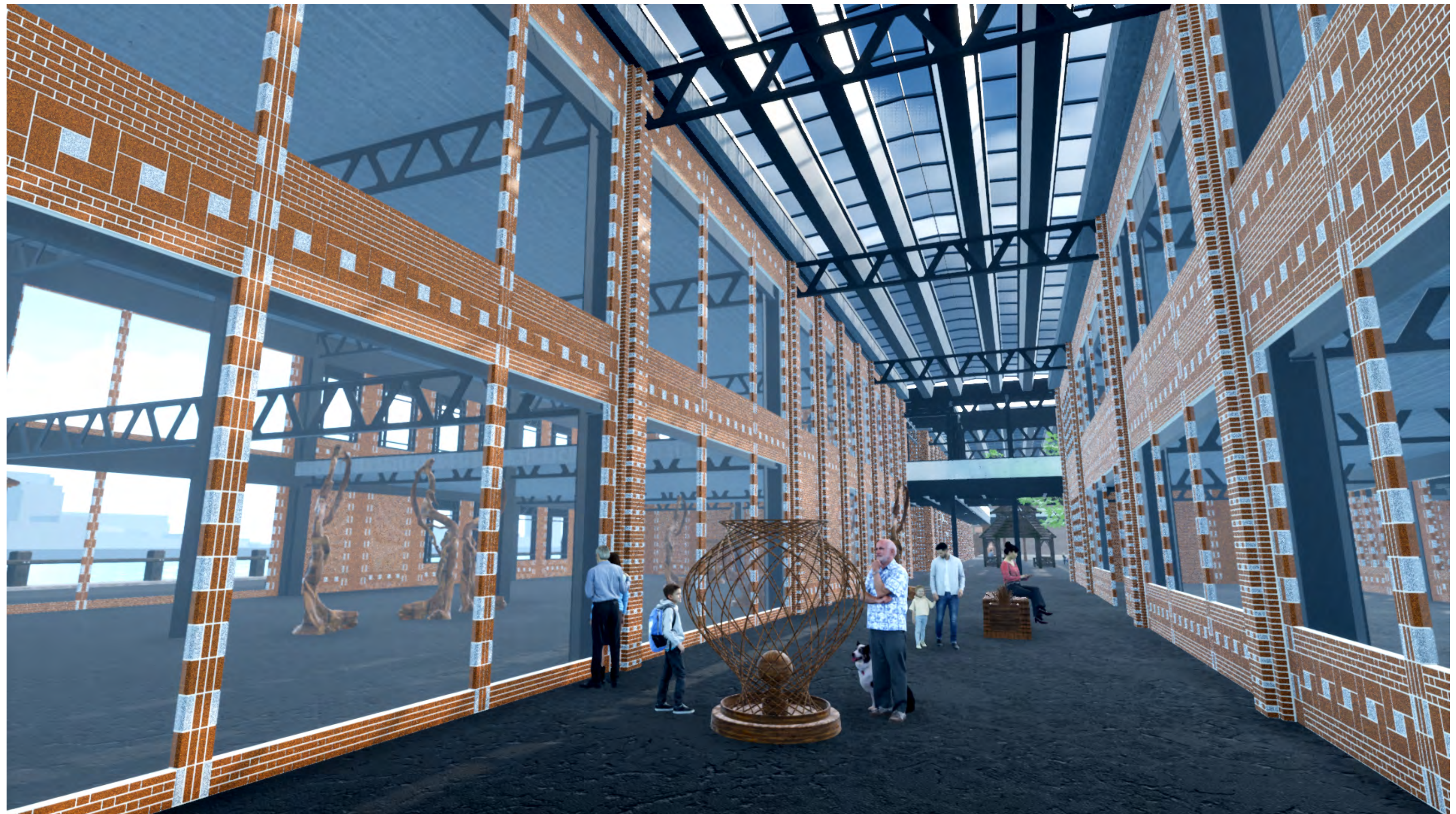


# Welcome to The CRAFT Museum Rotterdam-Zuid

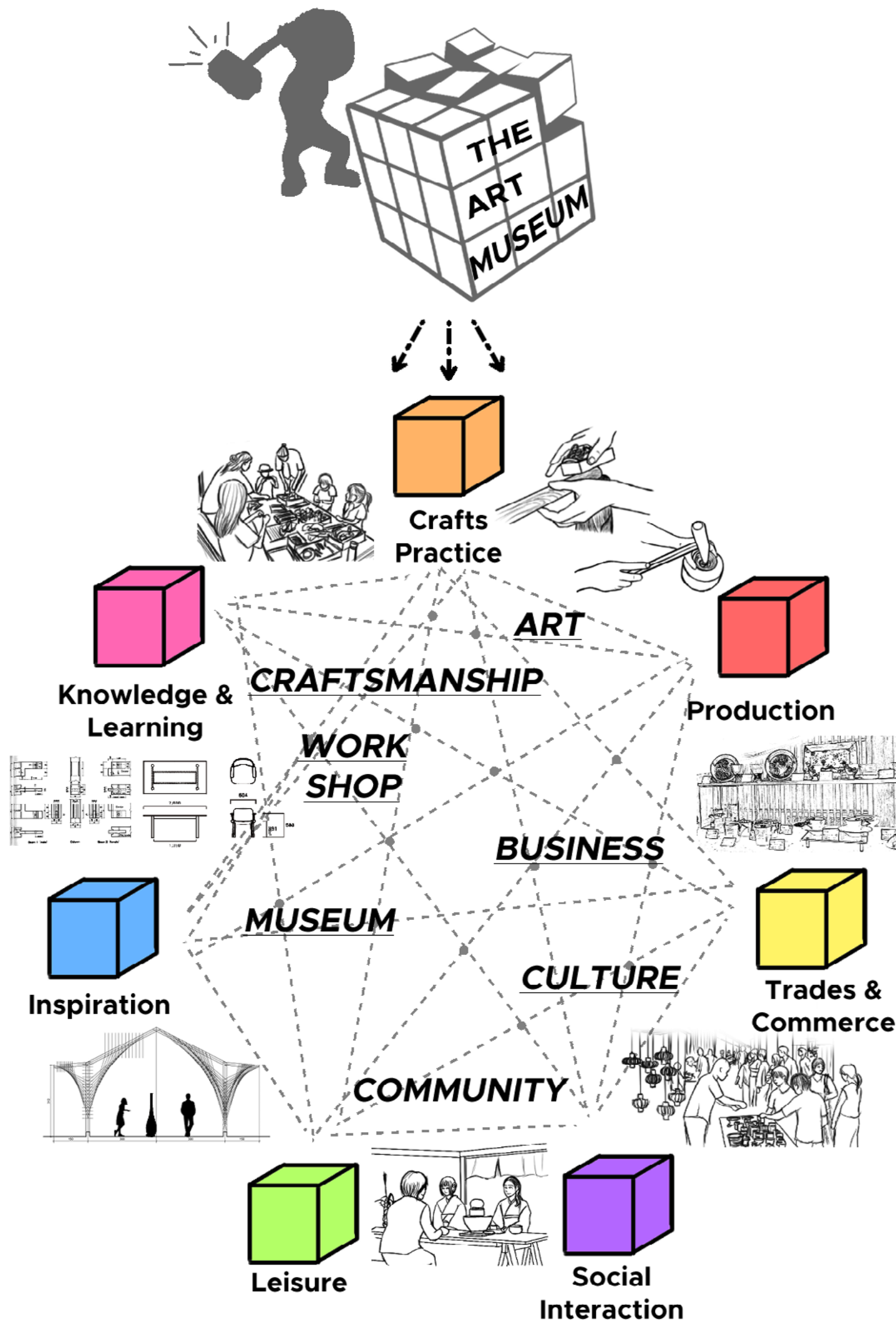
Community-based Relational Art Factory Tarwewijk





# THE NEW MUSEUM





**Art** **intentional** **creative**  
 "Poetic art is nothing but a willful, active, and productive  
 use of our organs."  
**technical craft**

(Agamben, 1994. The Man without Content, p. 47)

**Intention/Thought  $\Rightarrow$  Technique + Action  $\Rightarrow$  Art Production**



# Craftsmanship of Community Centre, Artisanal craft industry, Art exhibition



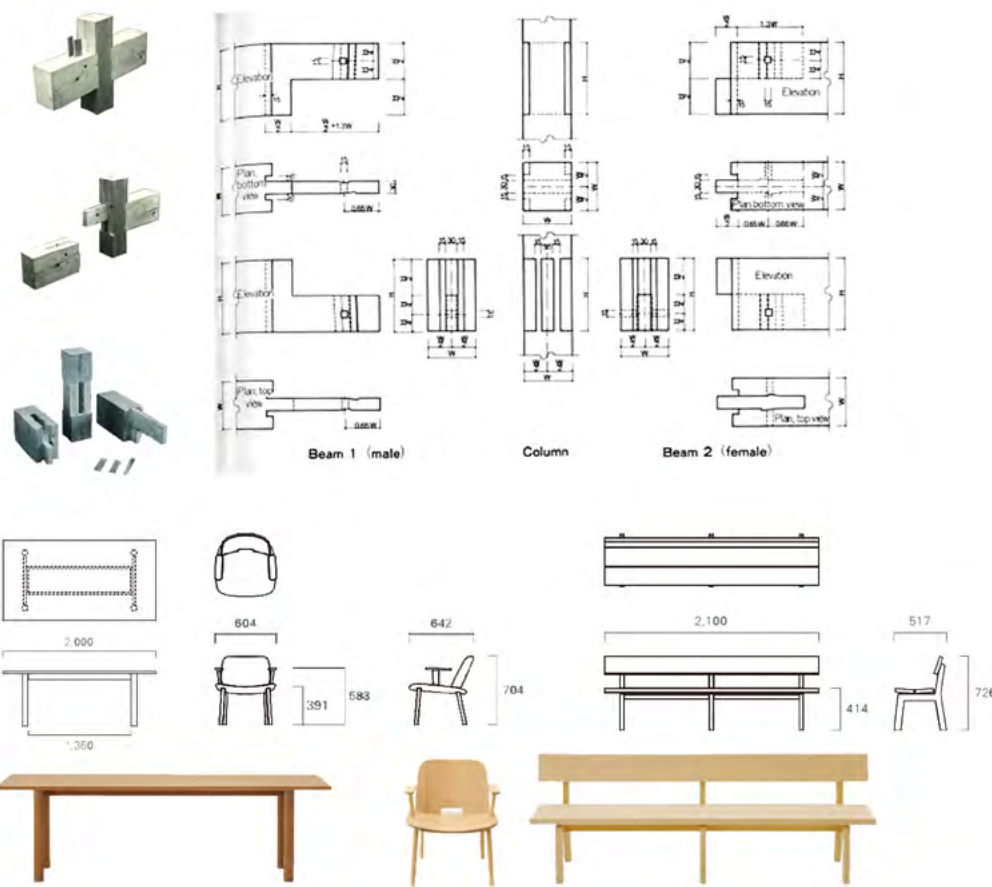


# Craftmanship of Multiple scale and expertise

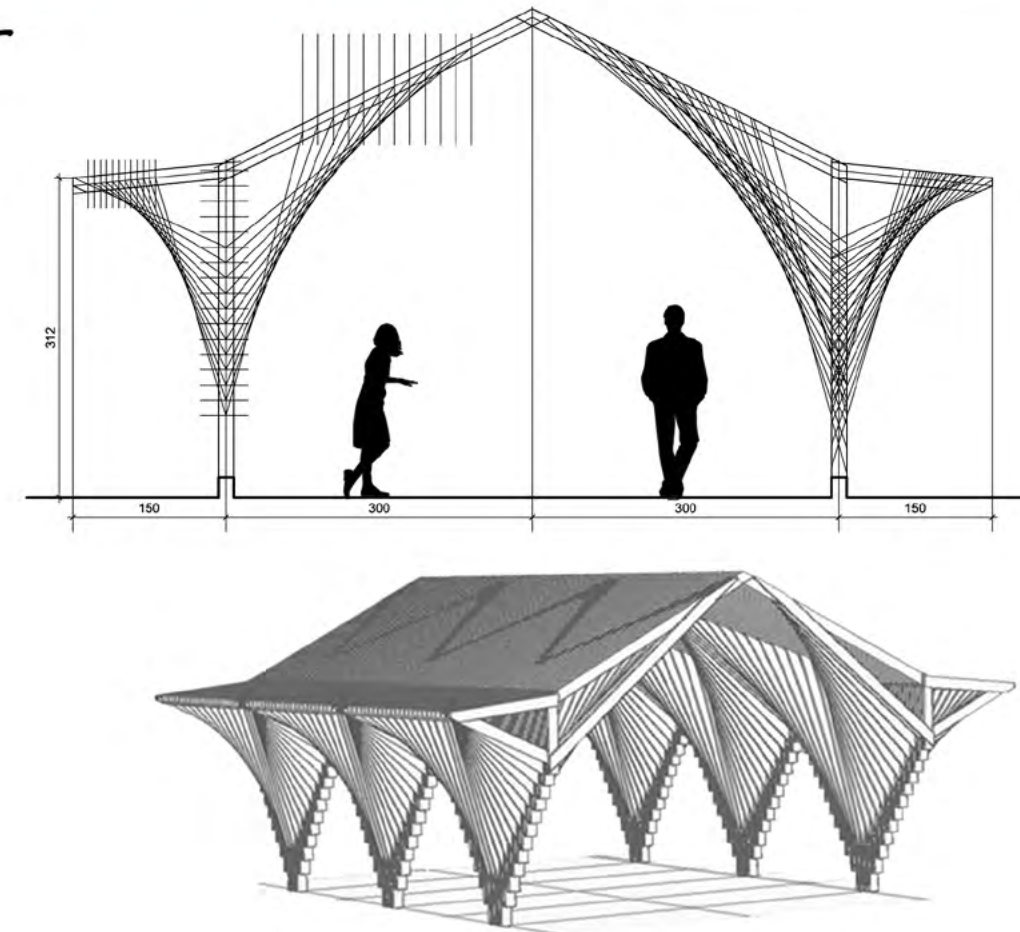
S



M

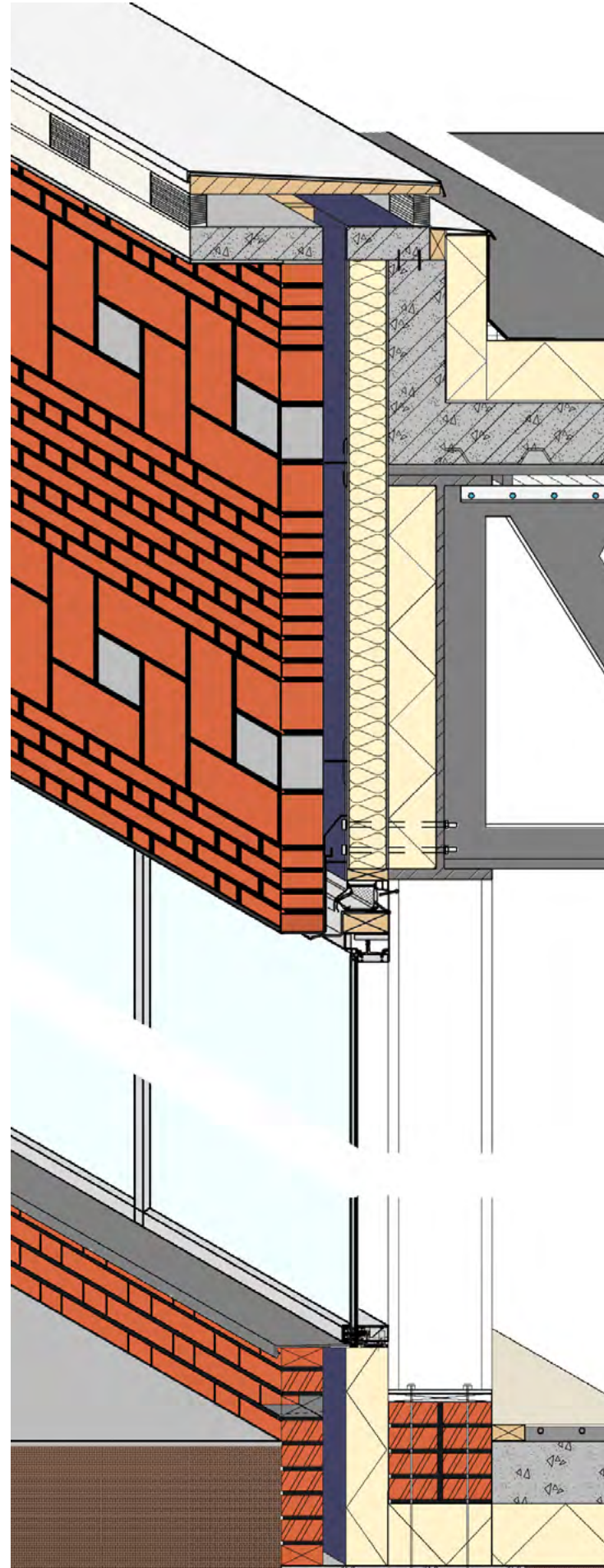


L





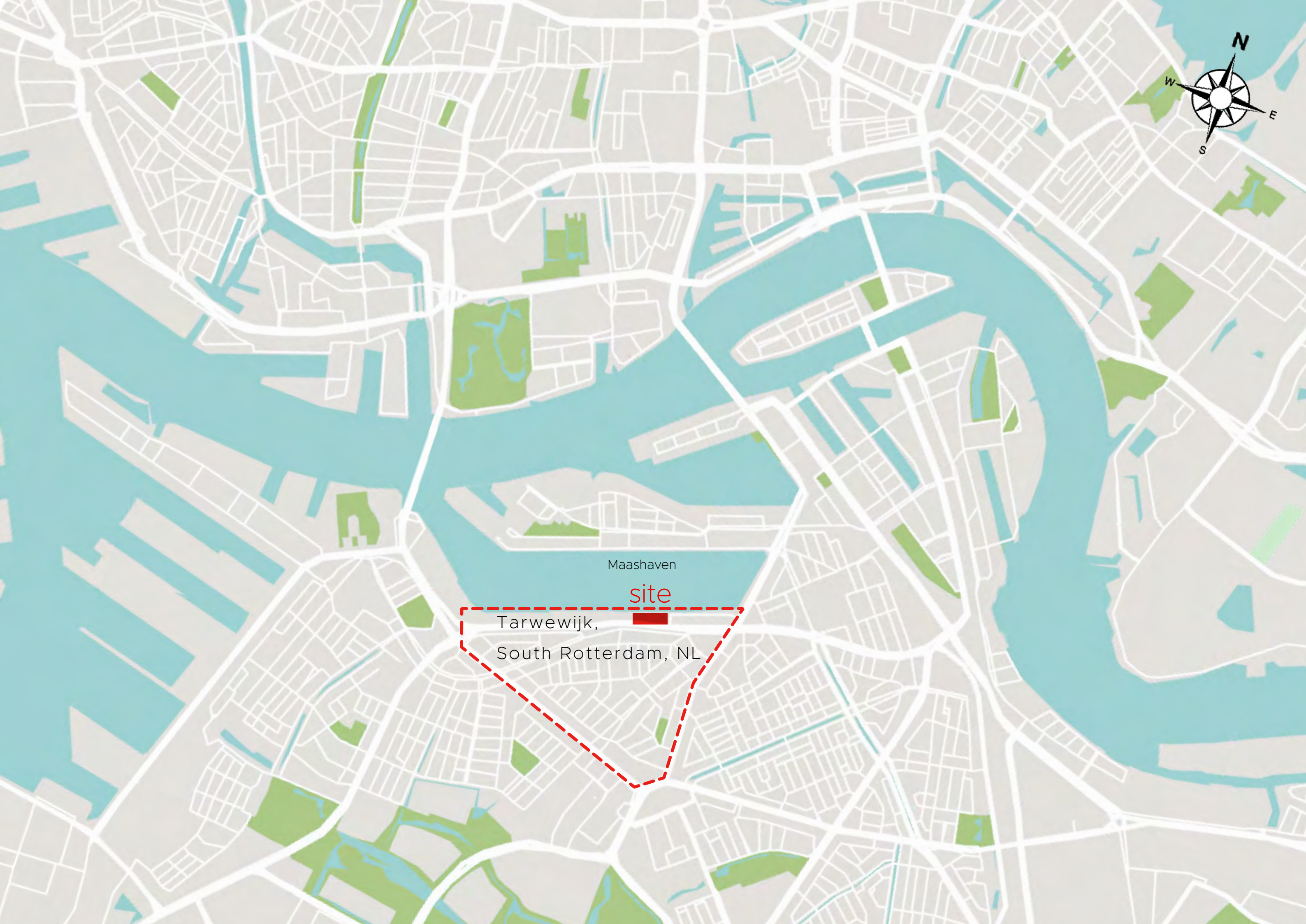
# Craftmanship of Building Construction





**SITE**





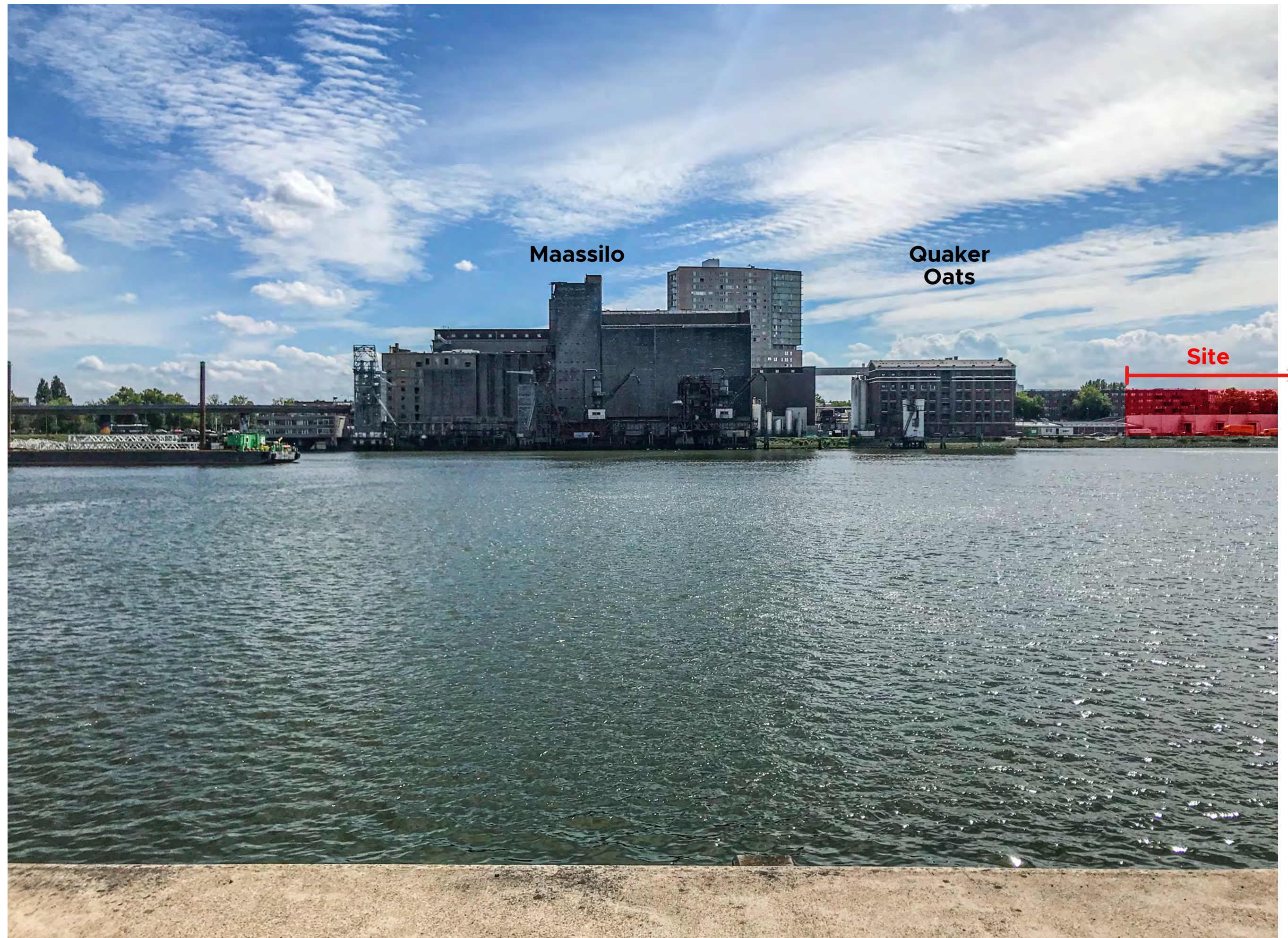
Maashaven

site

Tarwewijk,  
South Rotterdam, NL



## Historical Industrial Elements on Site Vicinity





## Historical Industrial Elements on Site Vicinity



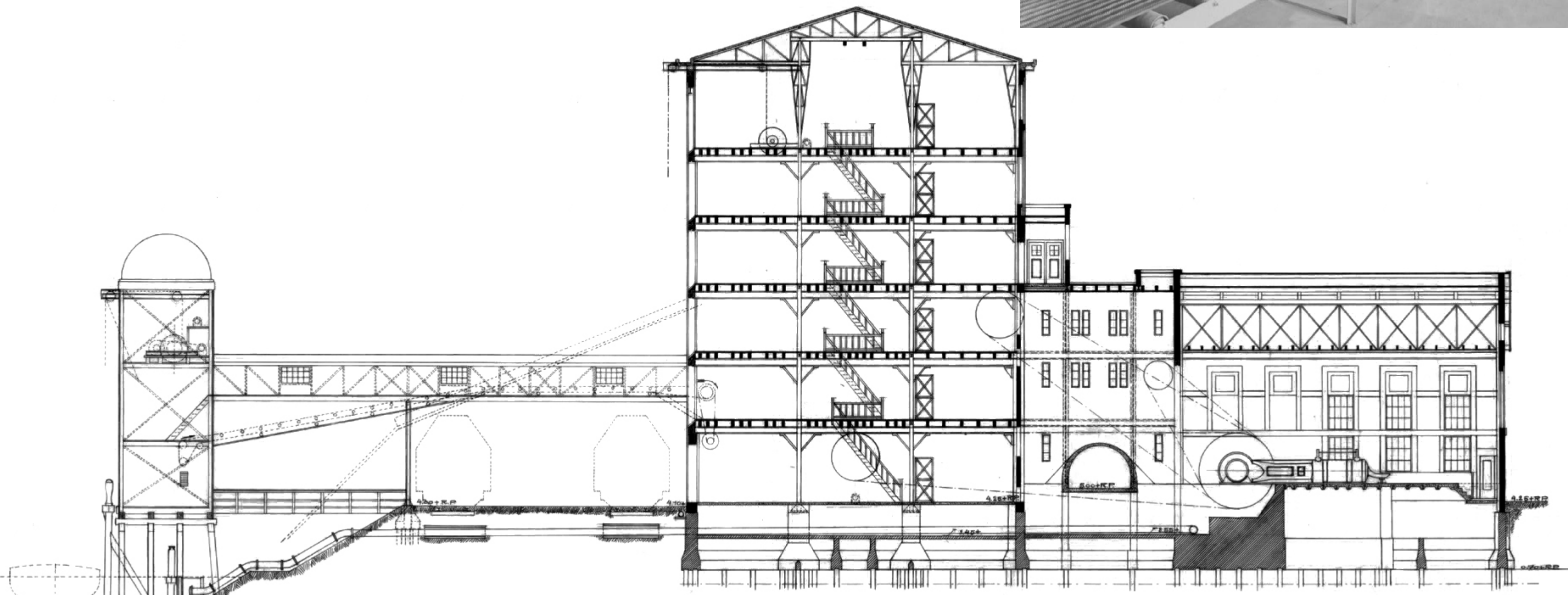


Quaker Oats Rotterdam Facade





Quaker Oats Rotterdam Structure



SCHAAL. 1:100.

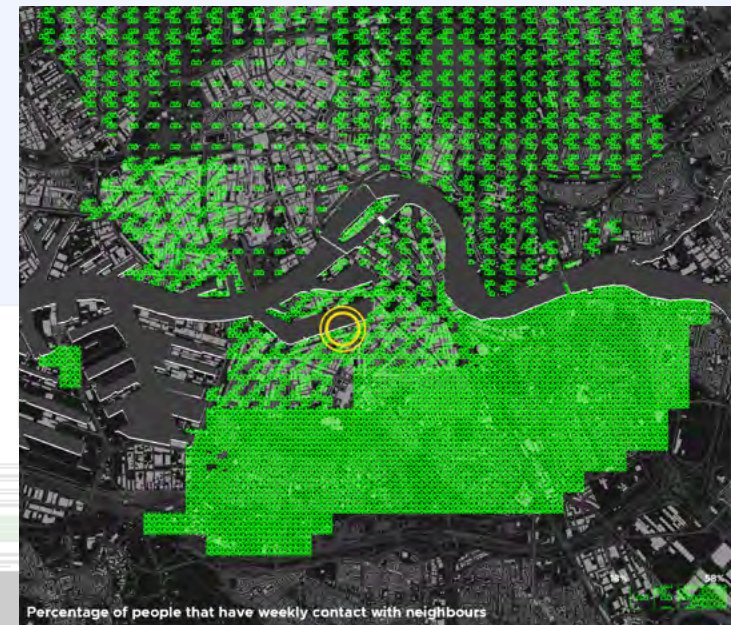
ROTTERDAM. JULI. 1915.



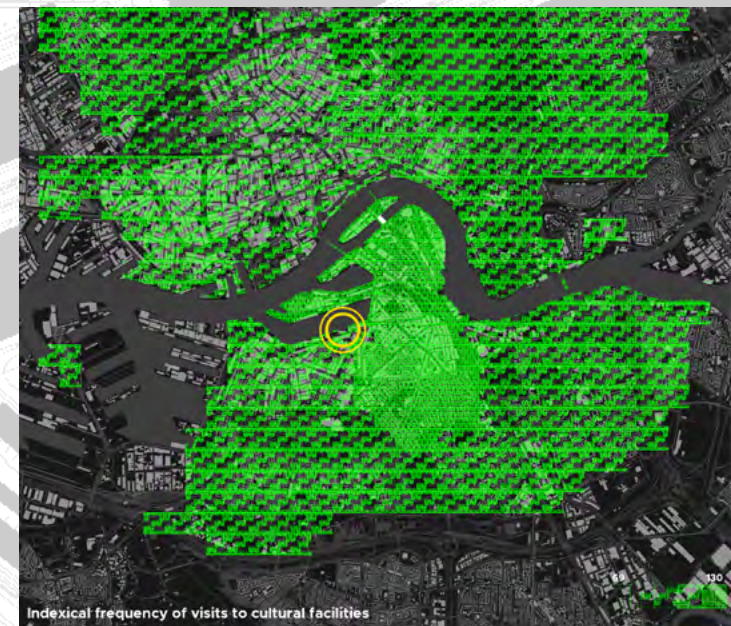
# People in Tarwewijk



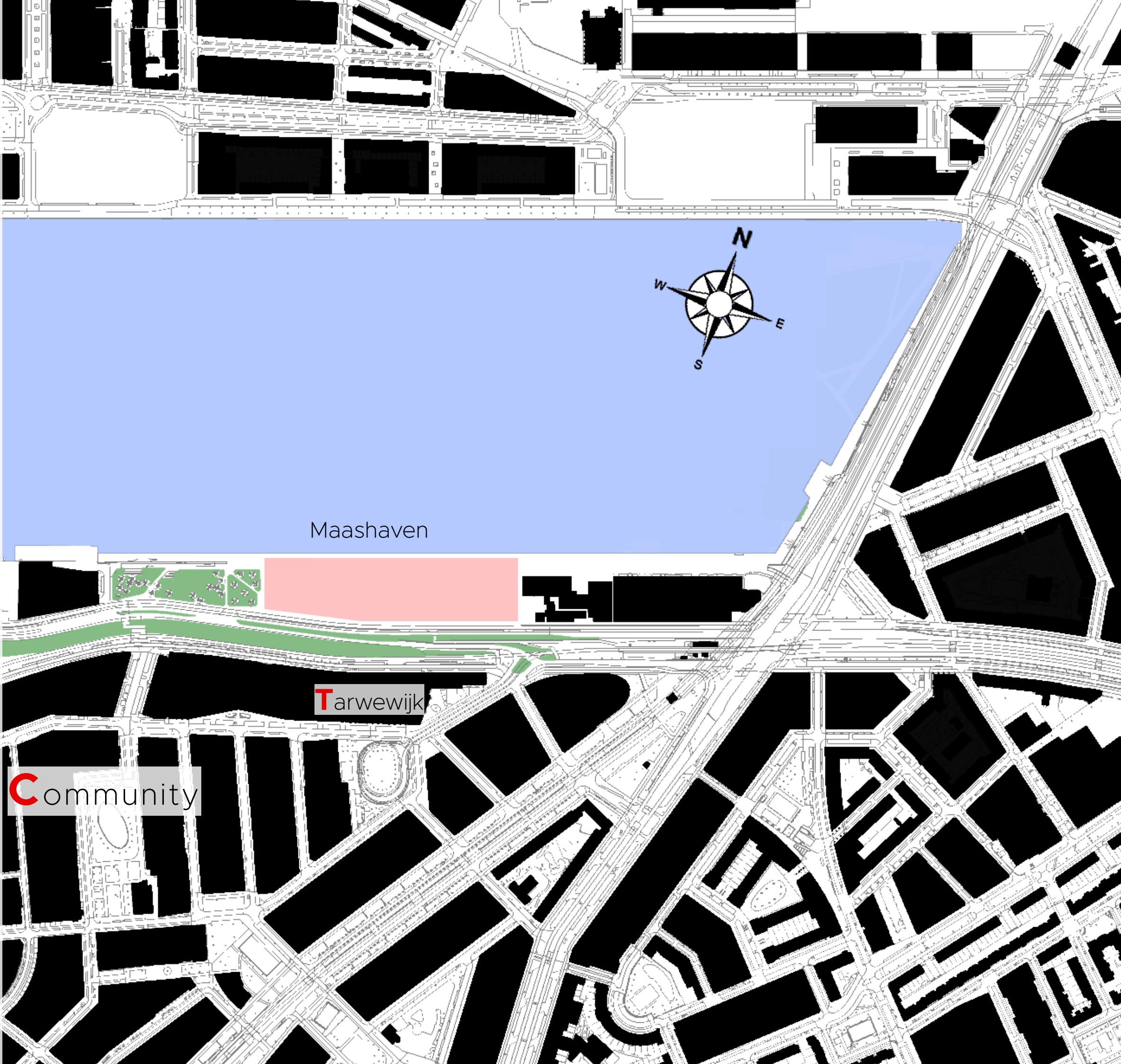
House of Hope



Weekly contact with neighbours



Visits to cultural facilities

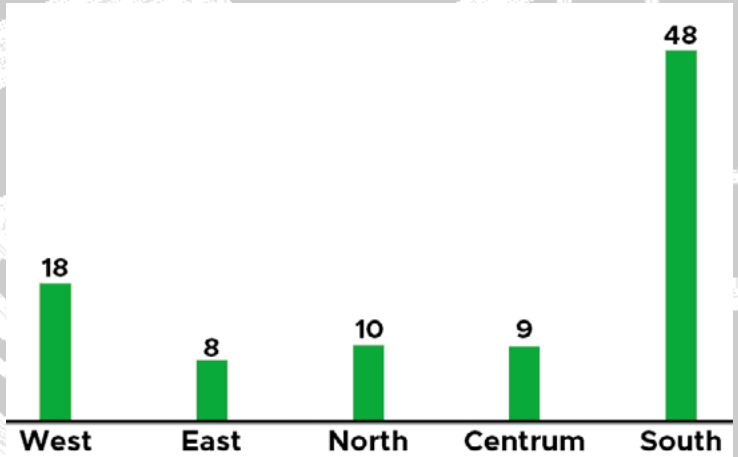
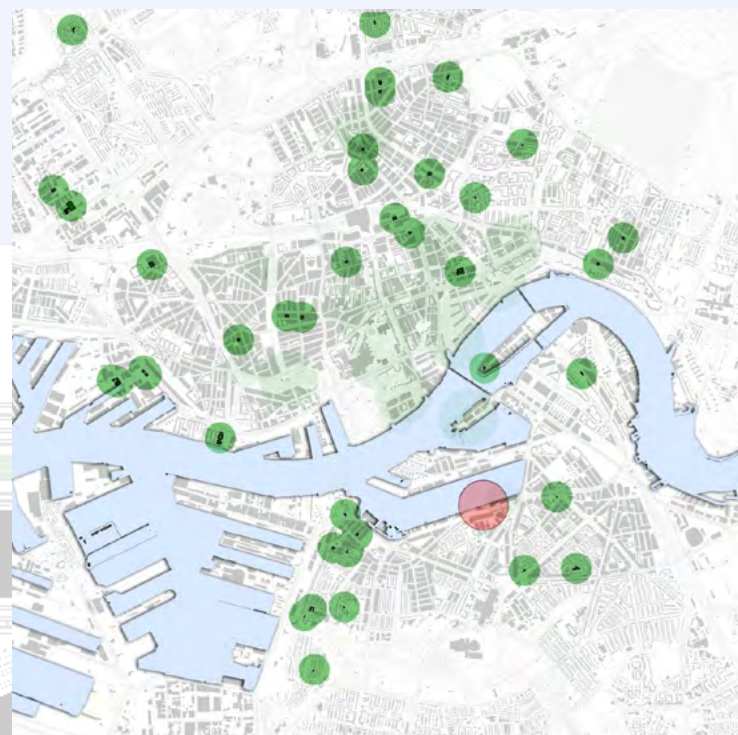




# Art in Tarwewijk



Cultuurwerkplaats Tarwewijk

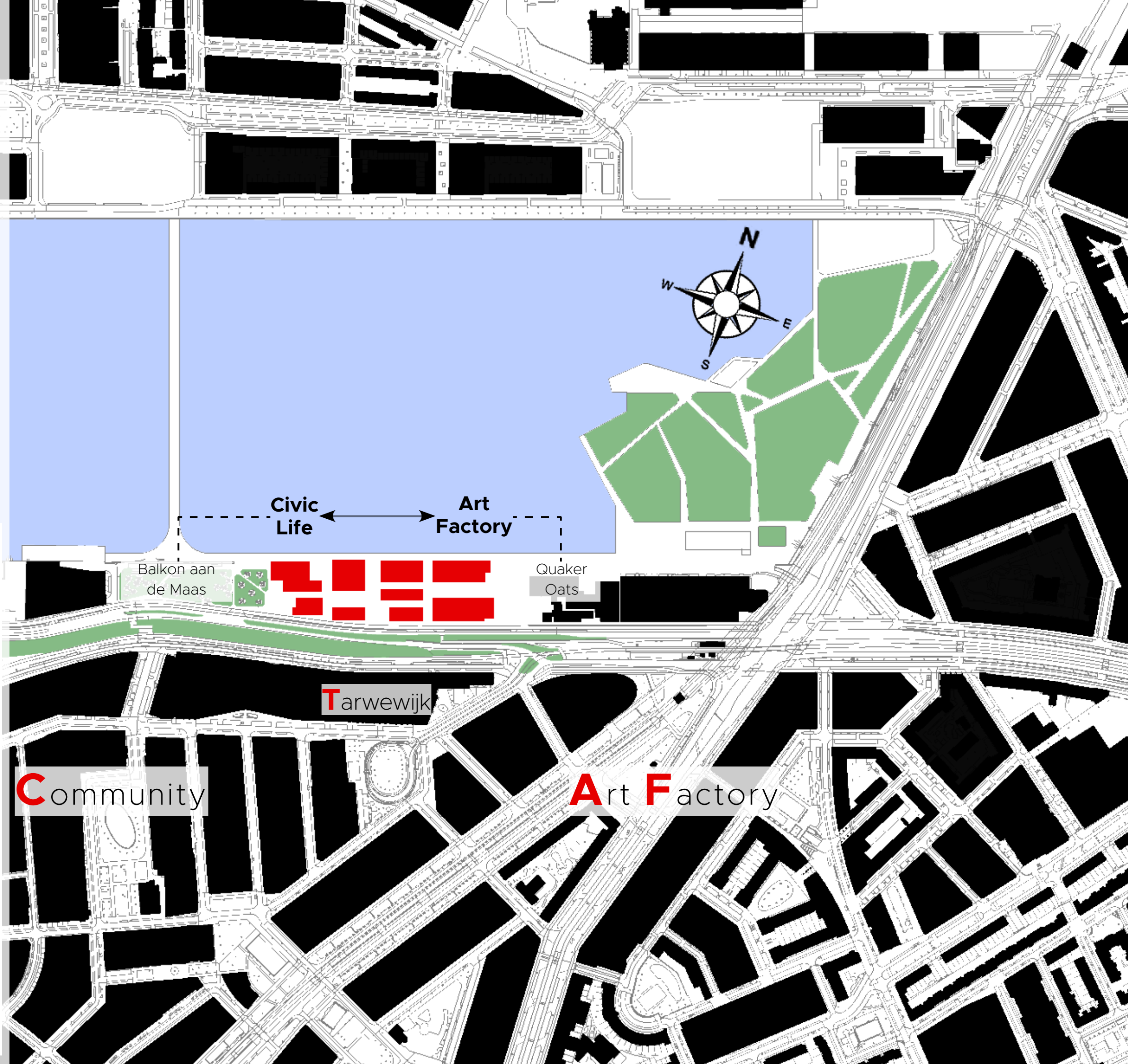
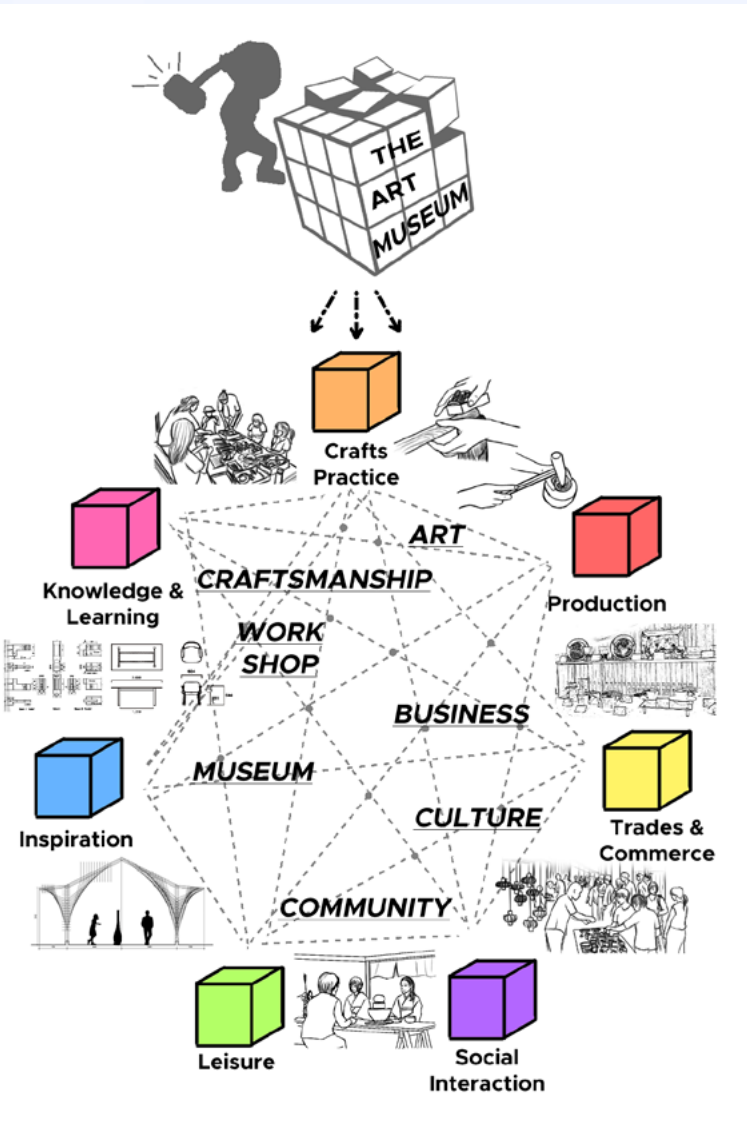
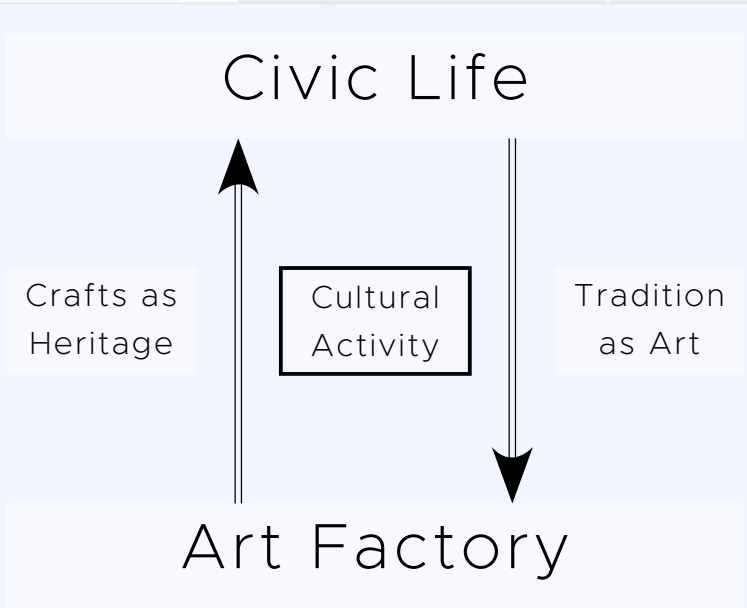


Ateliers Distribution in Rotterdam



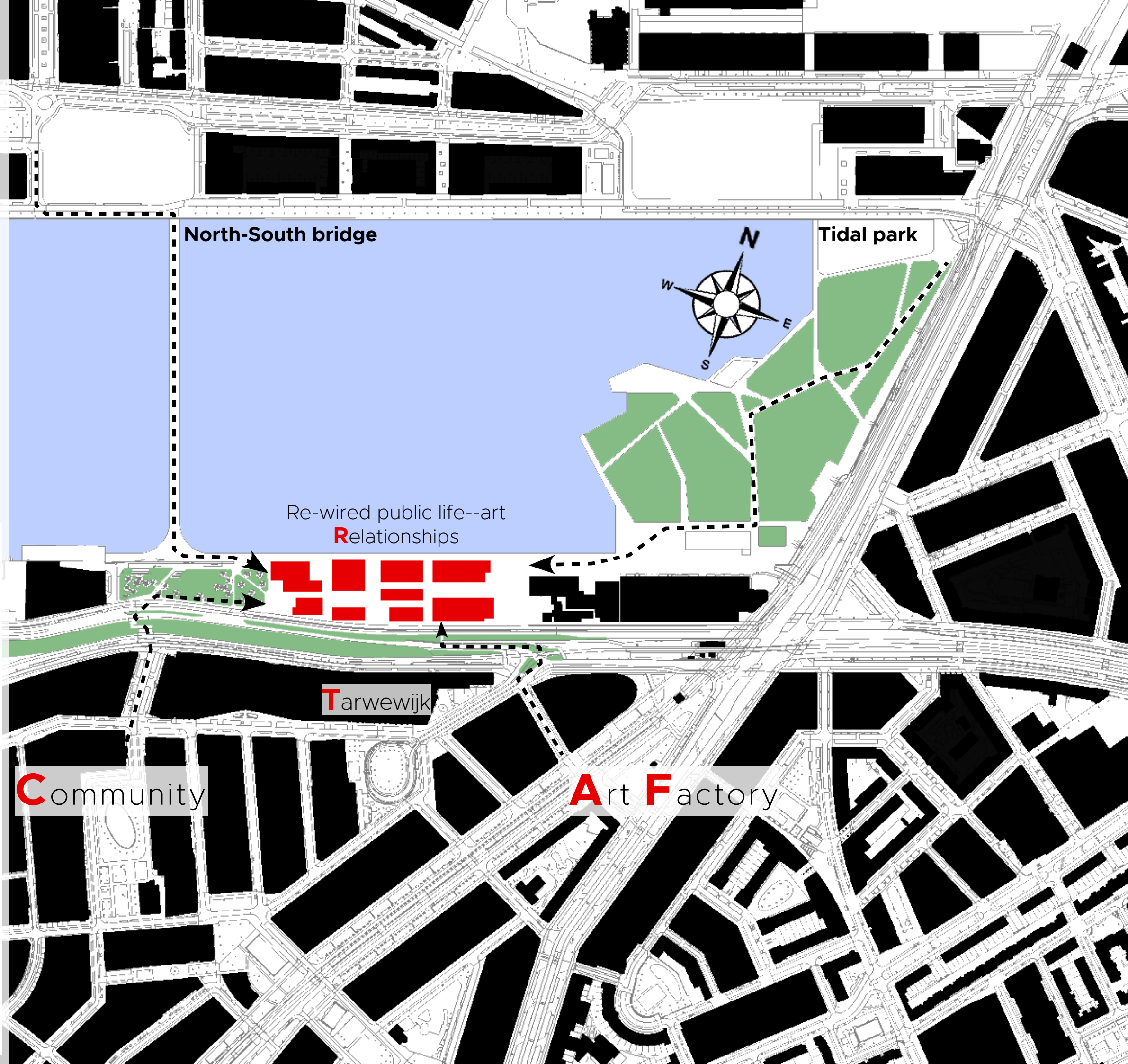
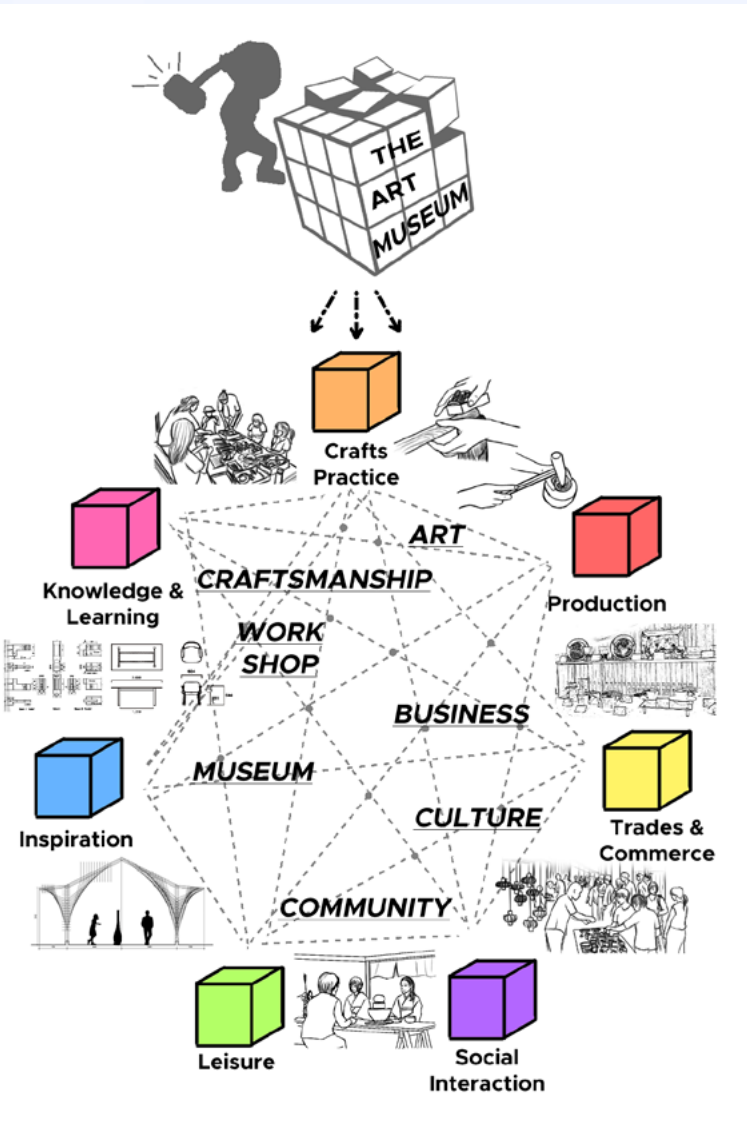
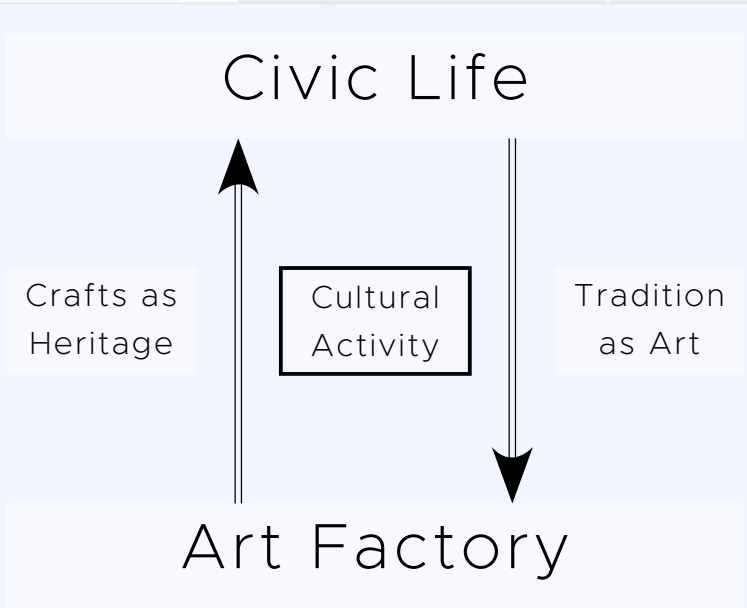


# The Re-wired Art Museum



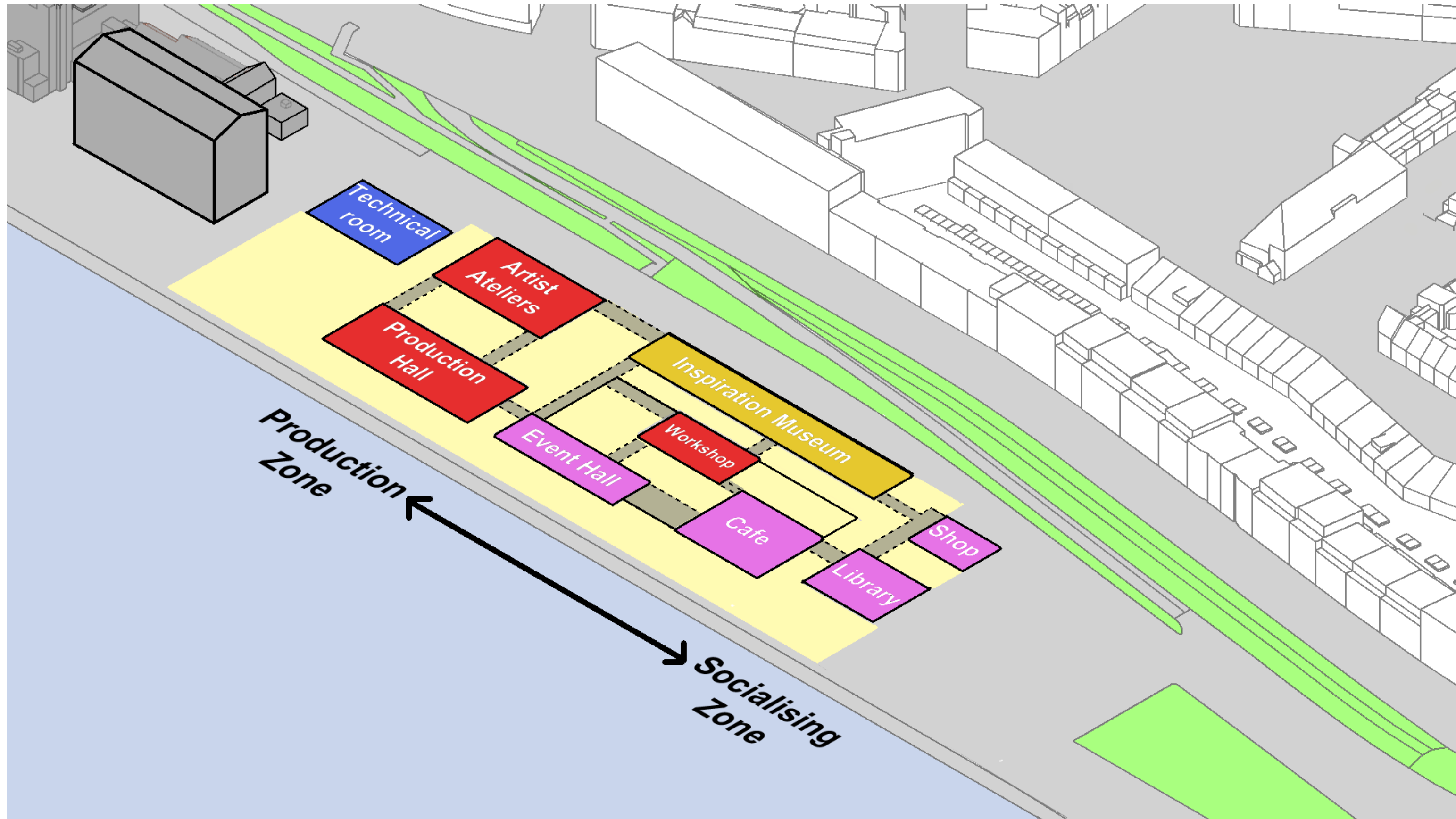


# The Re-wired Art Museum



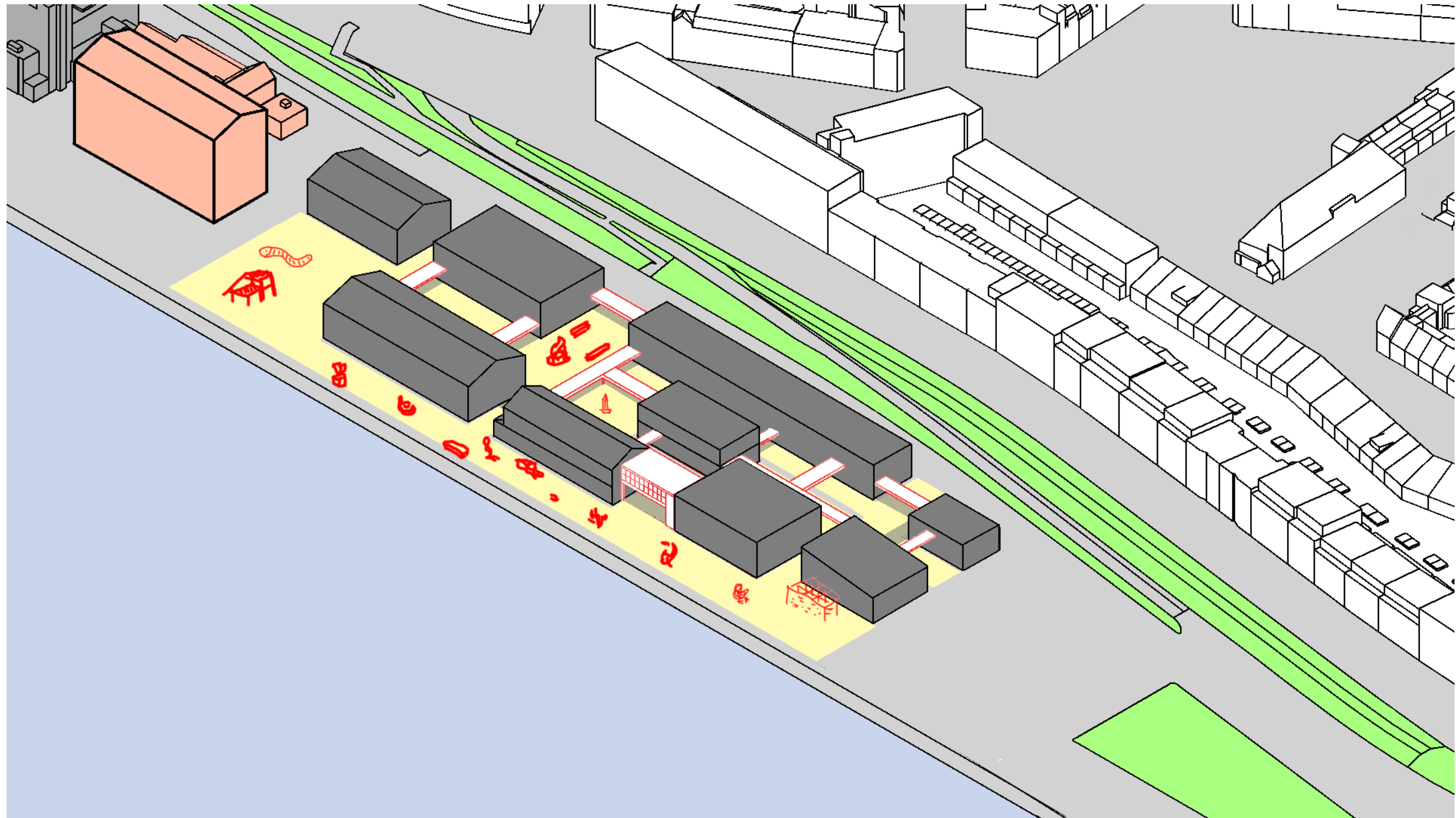


## Museum Concept: Gradational cluster categories





## Museum Concept: In-between space as open air exhibition space

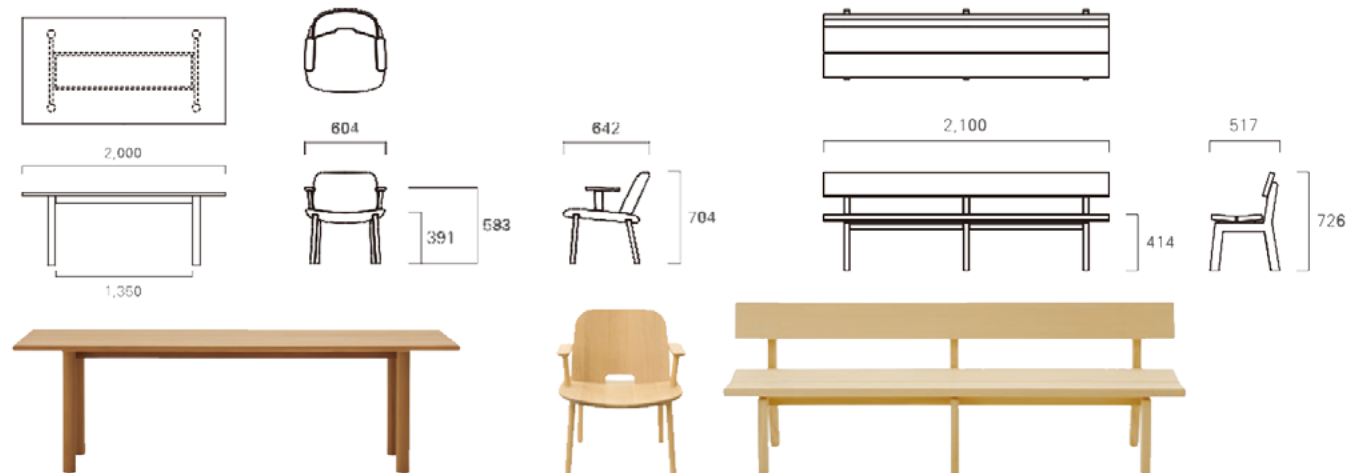
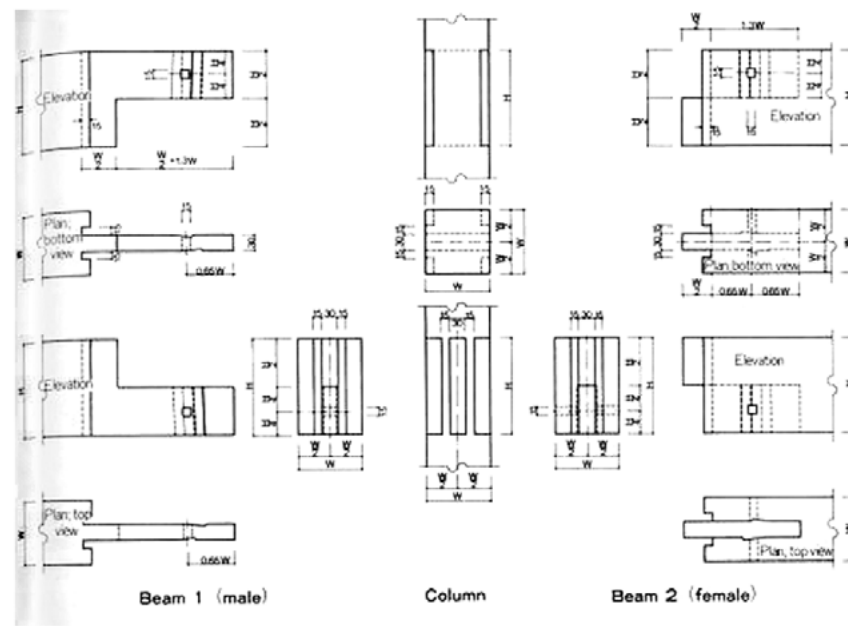




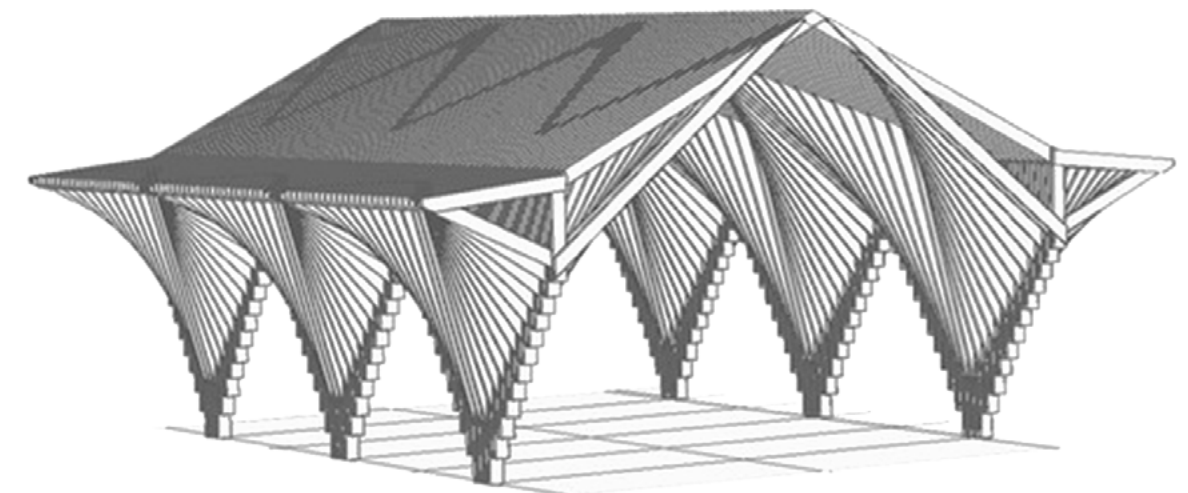
# **EXHIBITION CONCEPT**



## Multi-scales of Craftsmanship Art



This architectural section drawing illustrates a building's internal structure, featuring a vaulted roof supported by a central vertical column and two side columns. The drawing includes human silhouettes for scale: a person in a dynamic pose on the left and a standing person in the center. Dimensions are provided in feet: a total height of 312, a base width of 150 on each side, and a central span of 300. The roof is defined by a series of intersecting lines, and vertical lines indicate structural supports or walls.

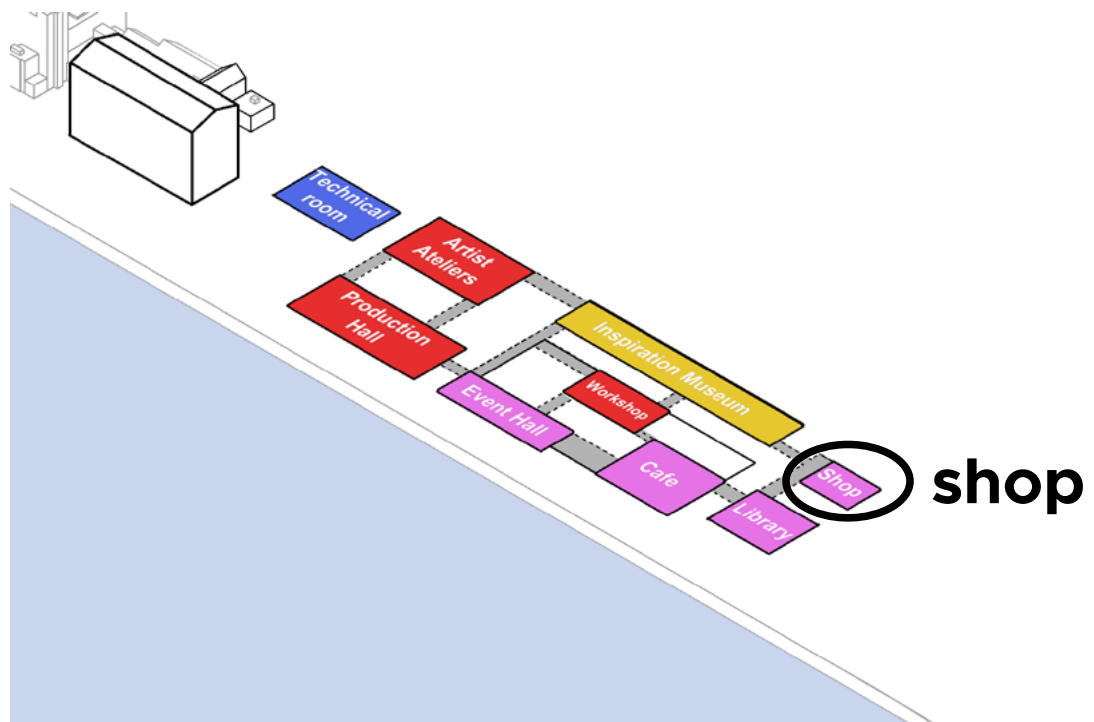
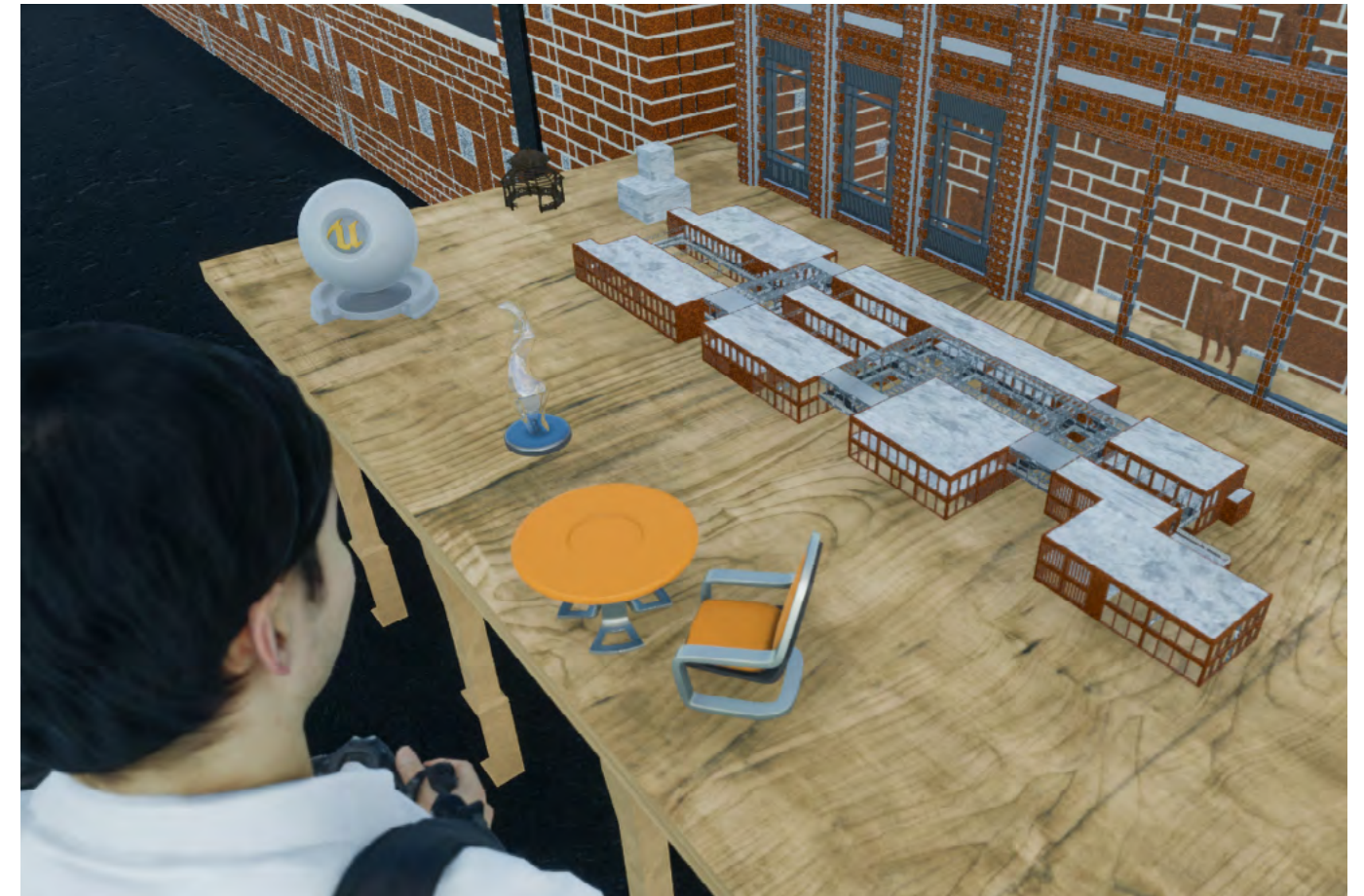




**Shop display**

**=**

**Exhibition of crafted tools of daily life**

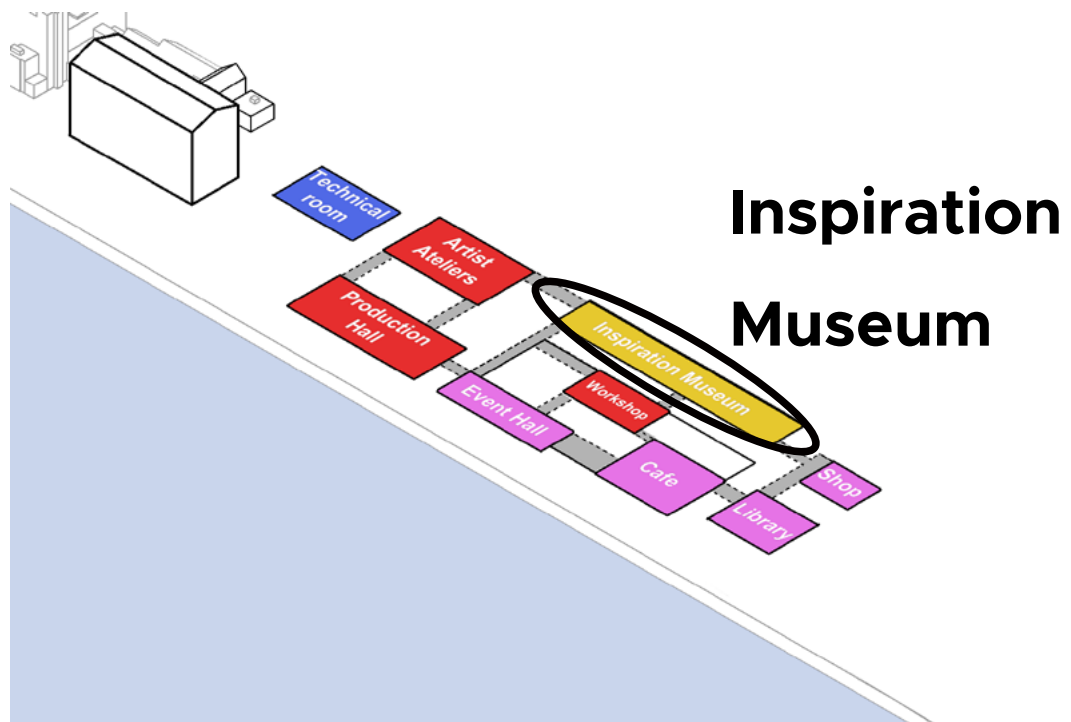




# Indoor Museum

=

Exhibition of educational material/reference

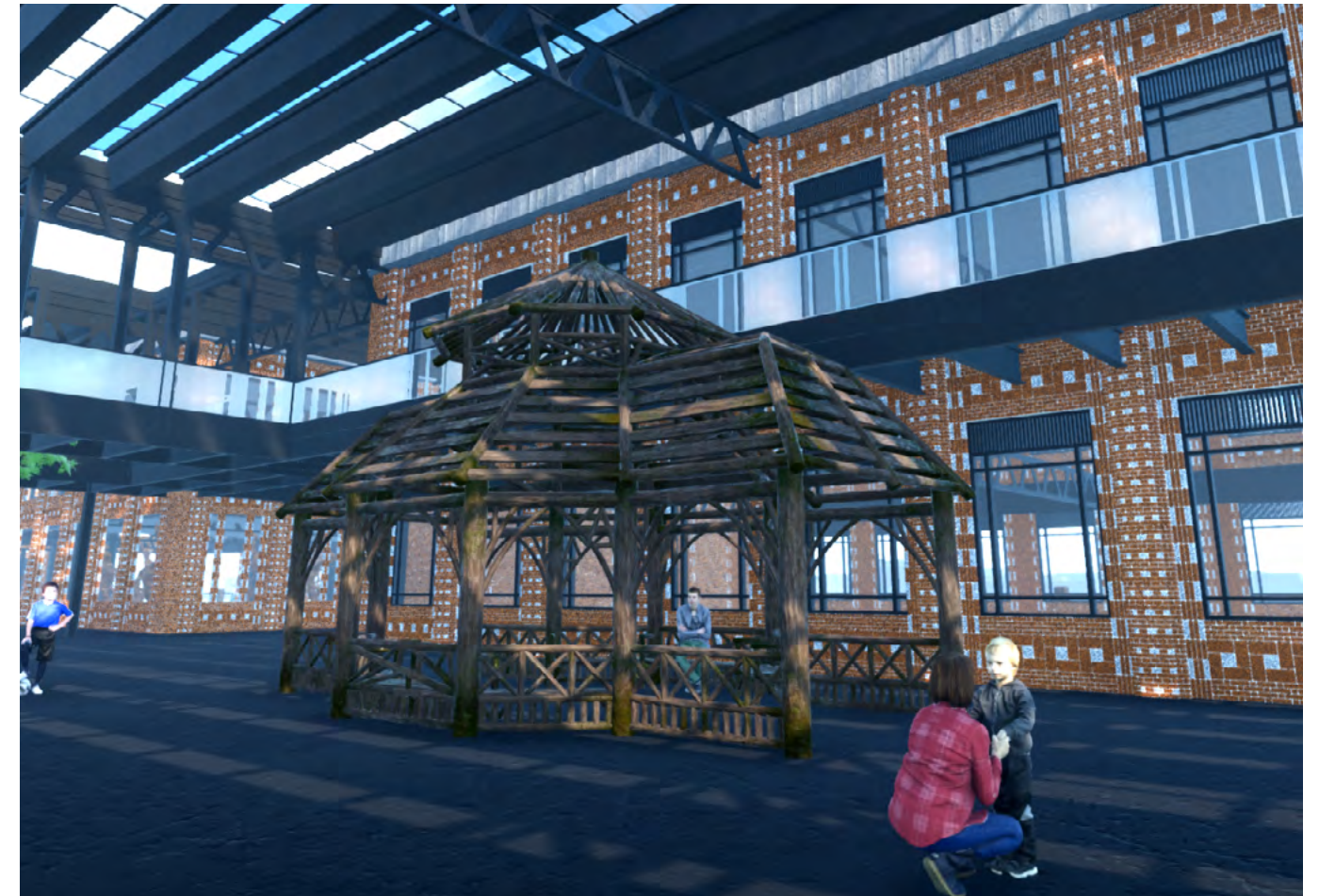




# Production Zone

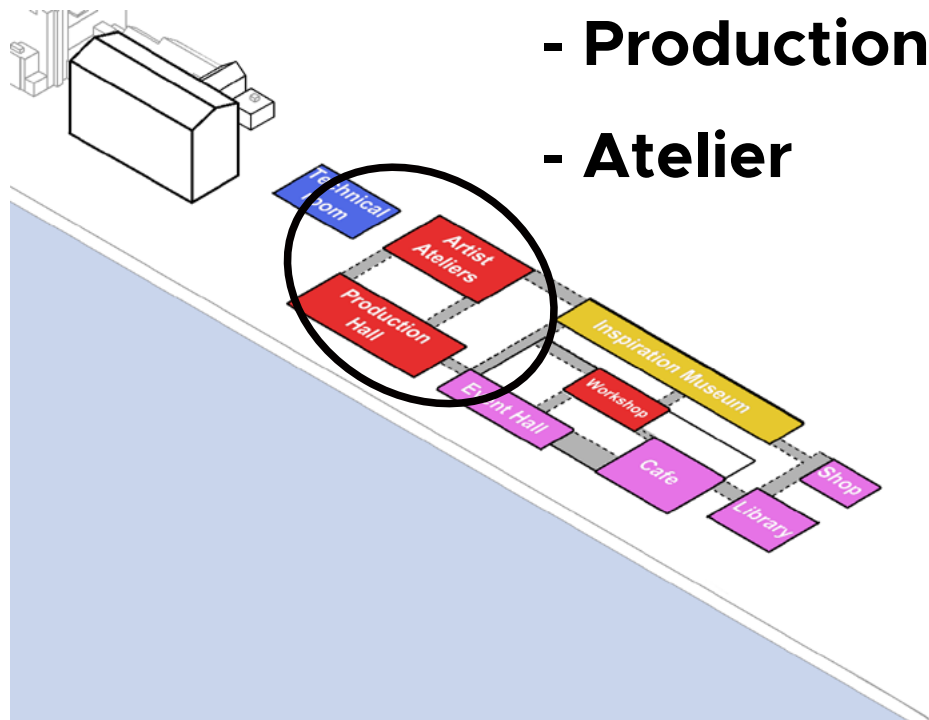
=

Exhibition as open practical learning



- Production Hall

- Atelier

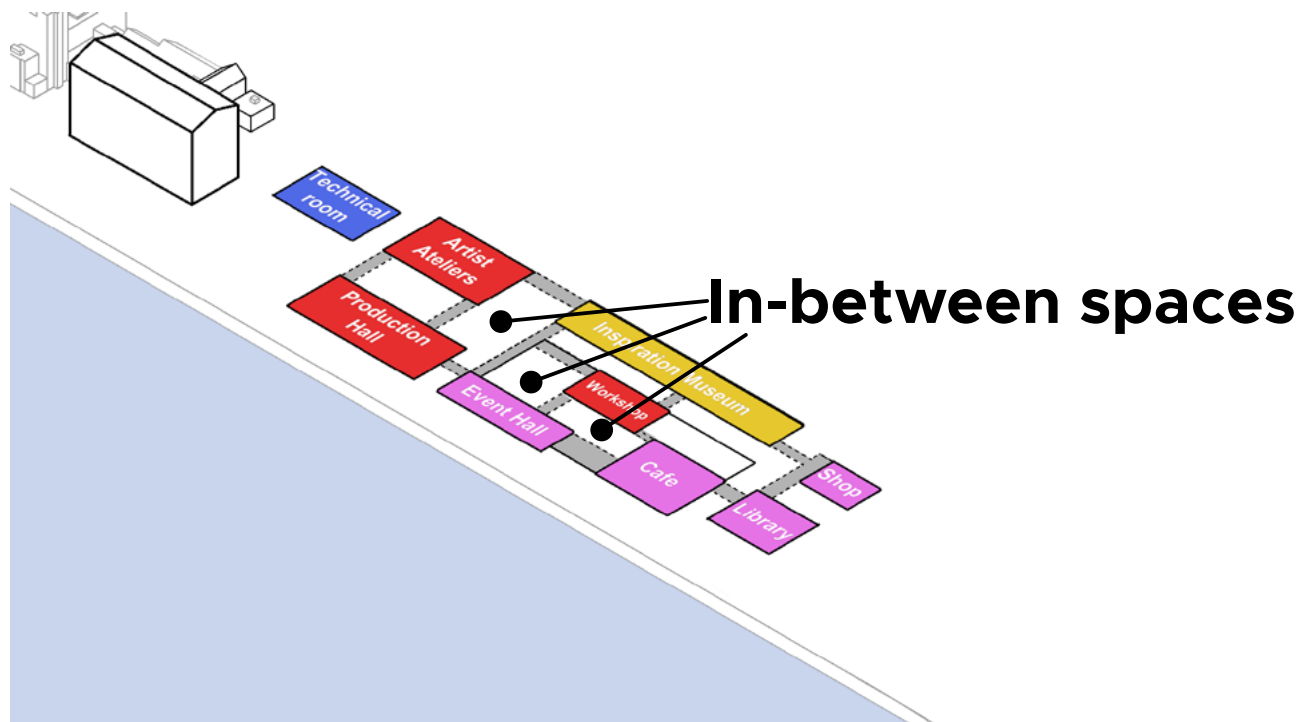




**(Semi)Outdoor space**

**=**

**Exhibition of interactive installation/urban furniture**





# **SPACE CONCEPT**



## Indoor-Outdoor Permeability



Sanmachi Street, Takayama, Japan



## Indoor-Outdoor Transparency



Kanayamachi, Takaoka, Japan



## Street as Extension of Public Space



Kanayamachi, Takaoka, Japan





**Library**

**Cafe**

**Public Hall**

**Production Hall**

**Workshop**

**Shop**

**Inspiration Museum**

**Artist Studio**



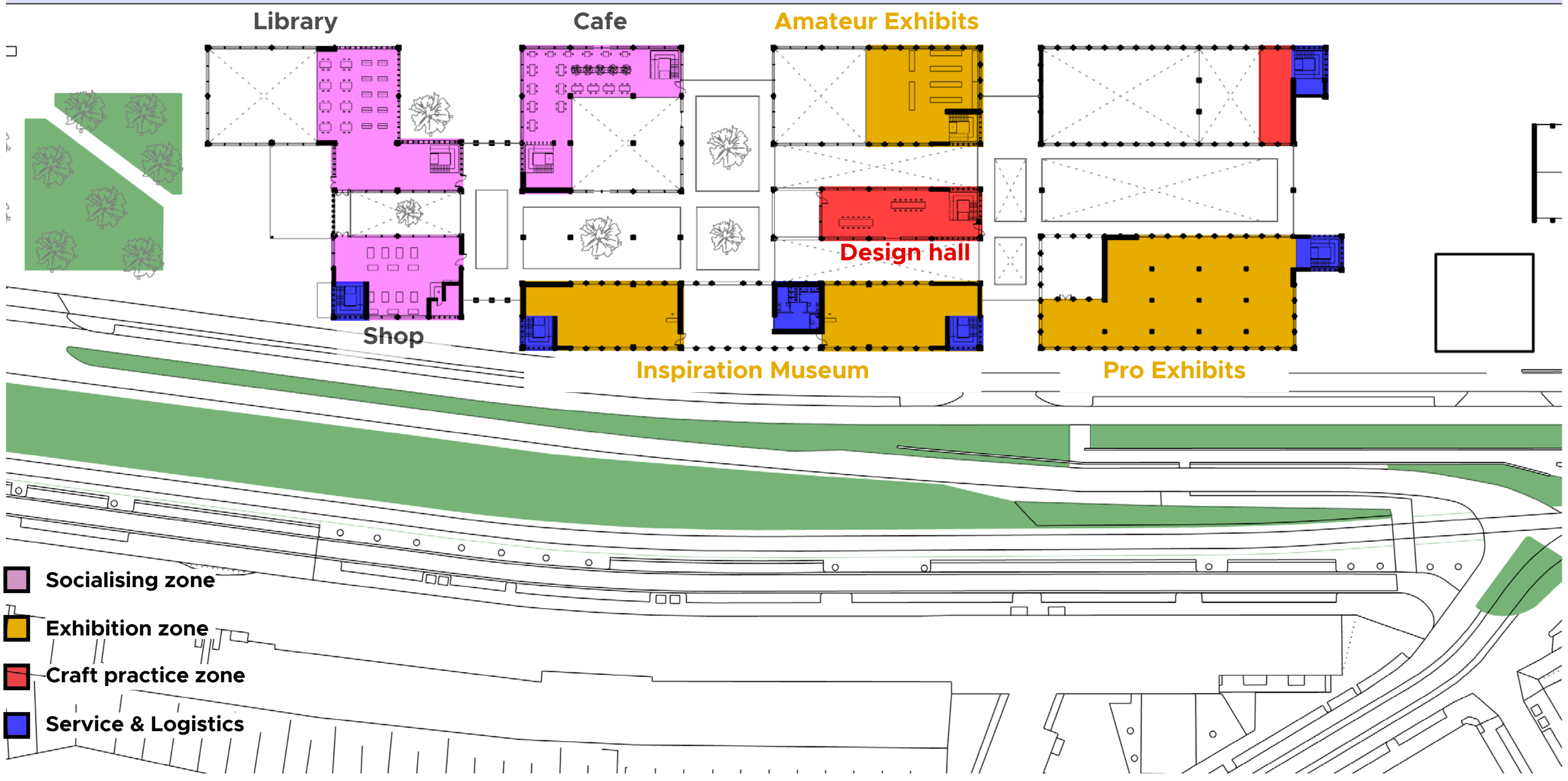


GF Floor Plan





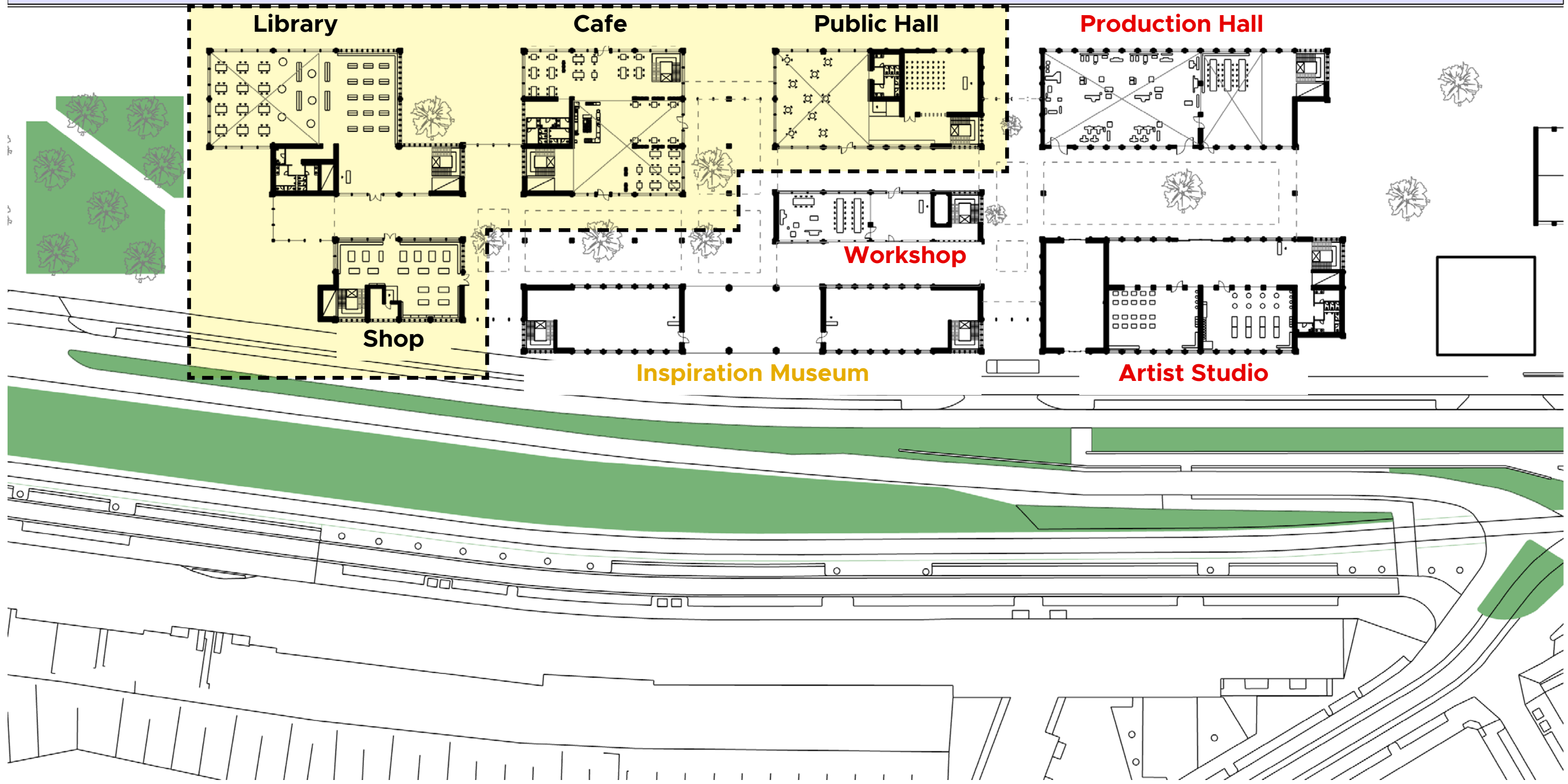
1F Floor Plan







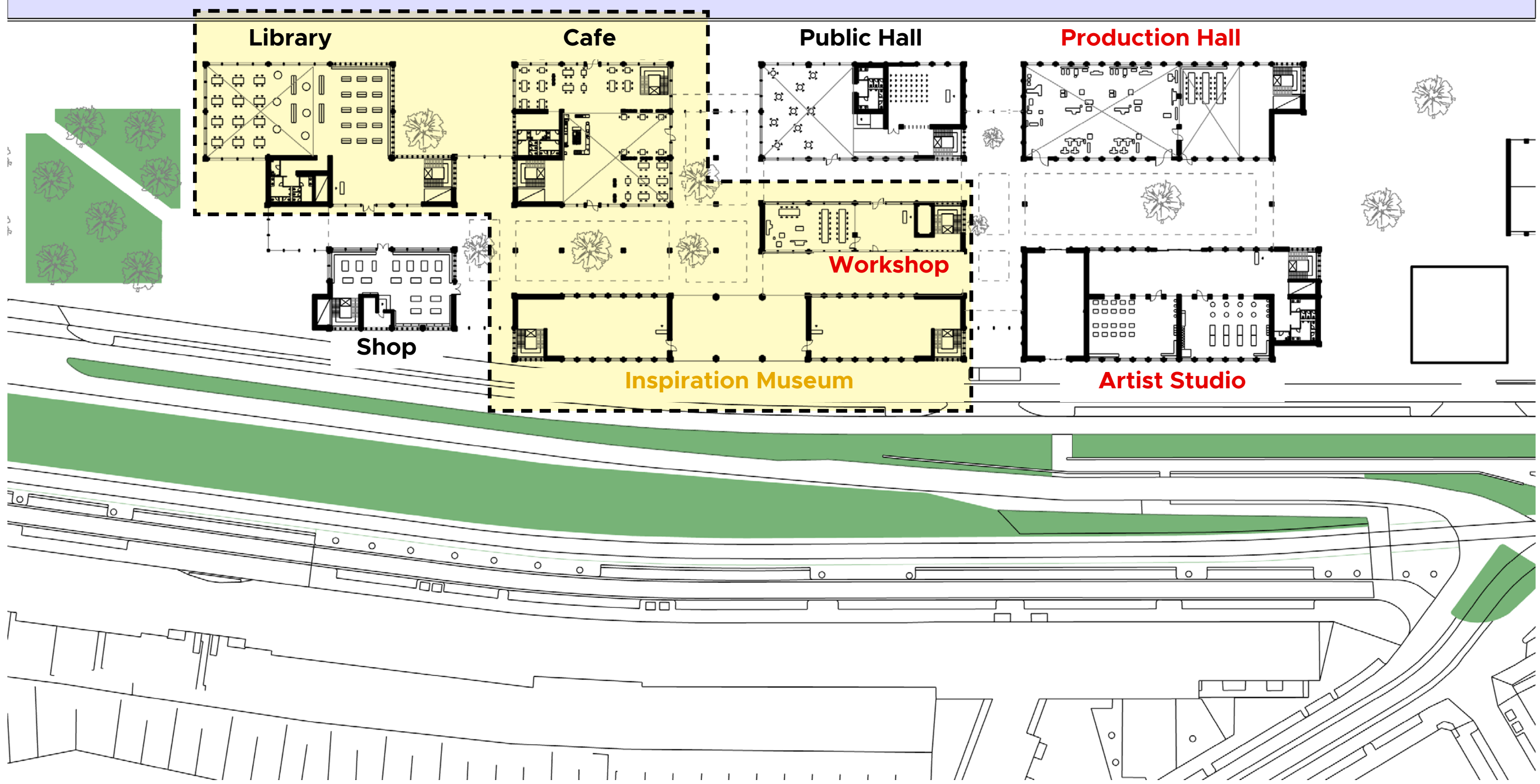
socio-cultural activity cluster







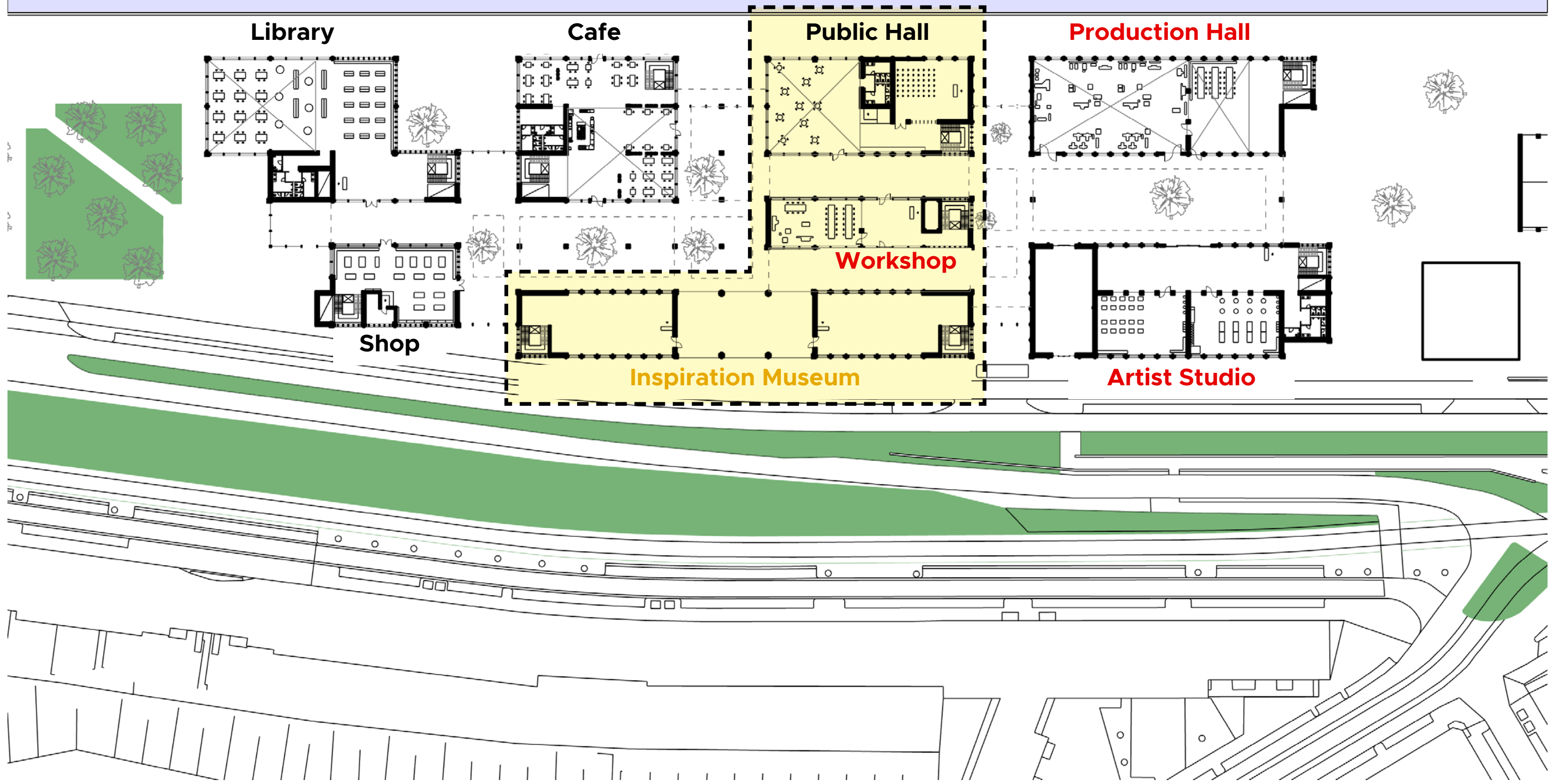
learning activity cluster







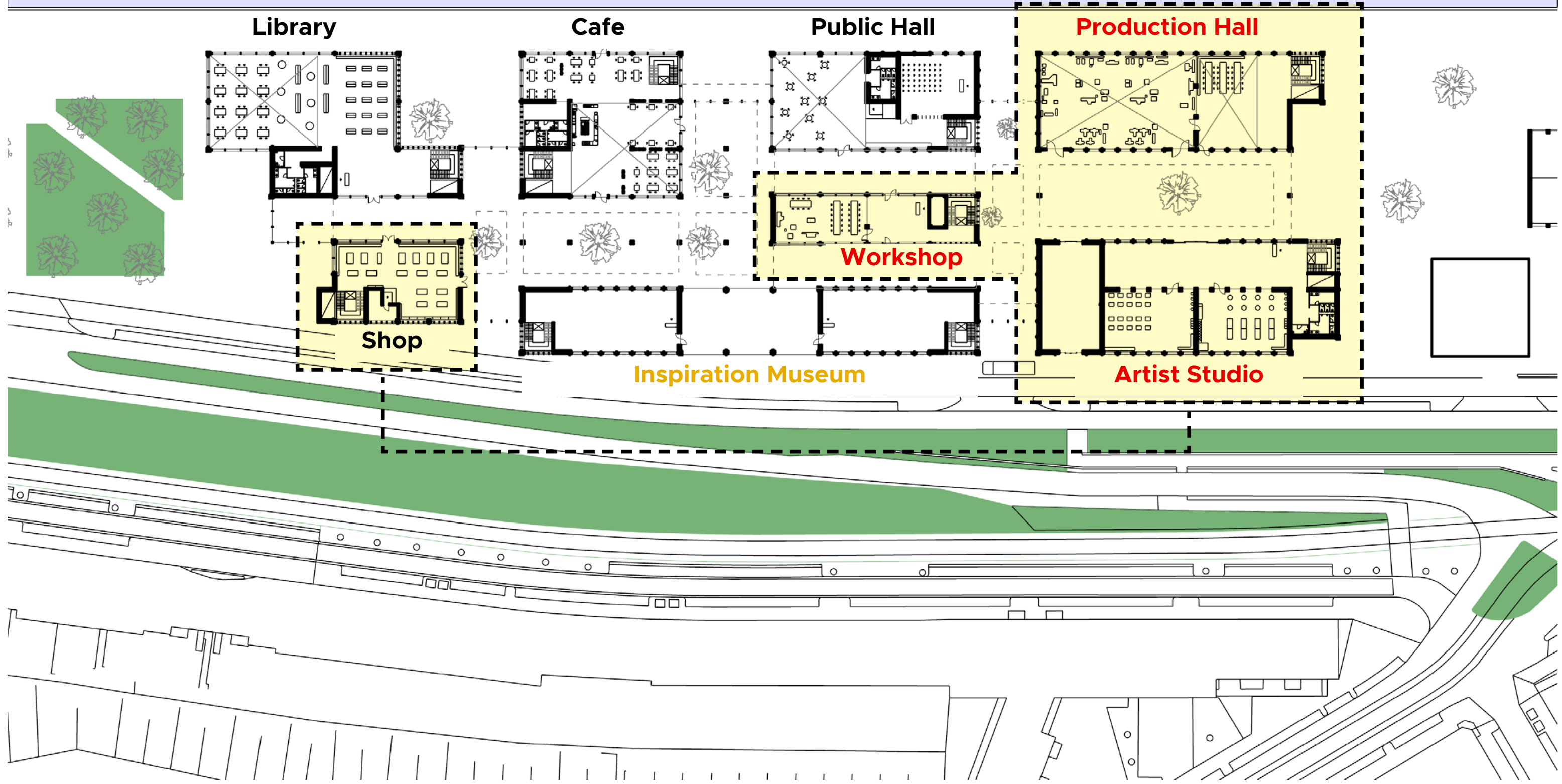
crafts appreciation cluster







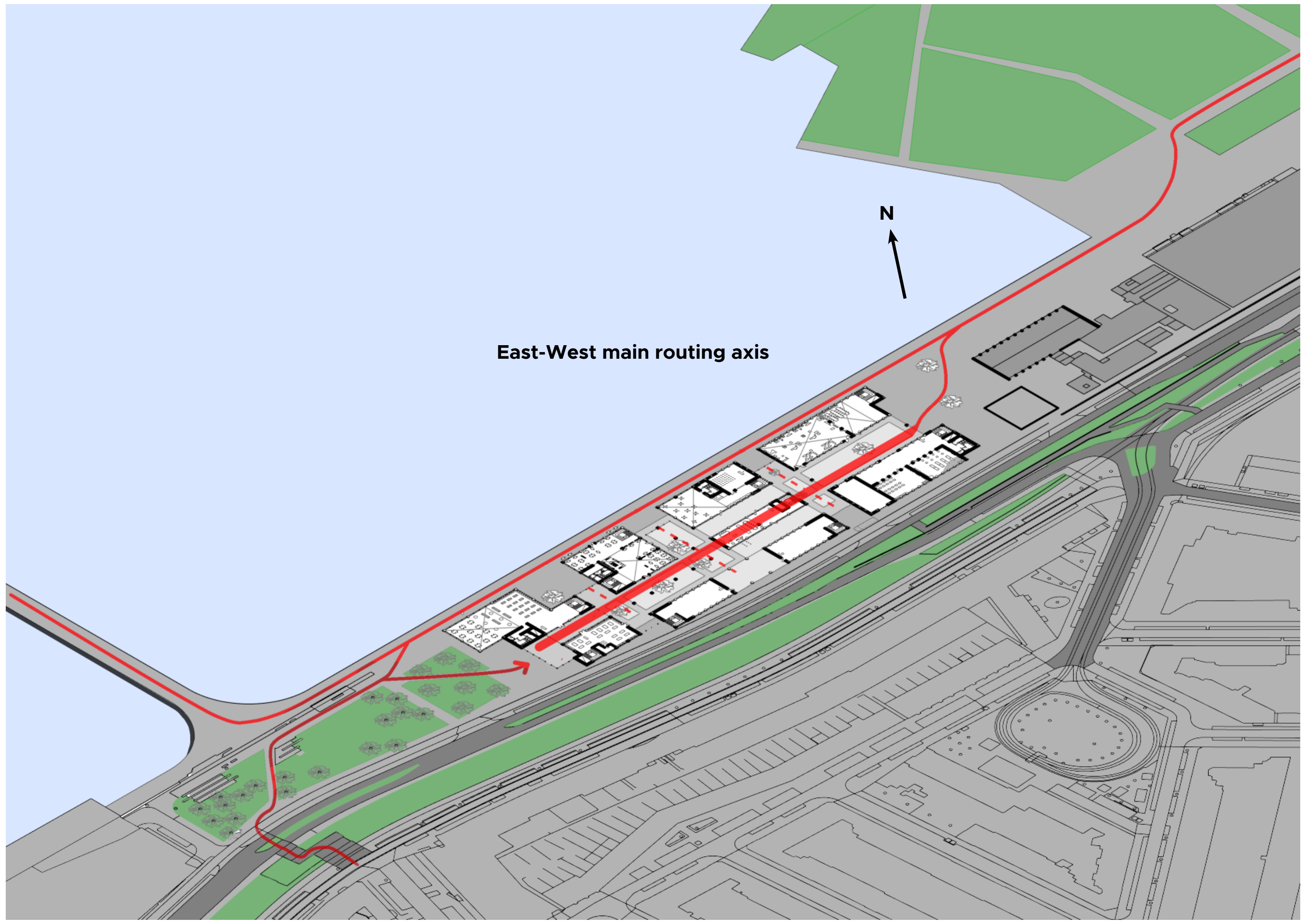
crafts industry cluster





# ROUTING

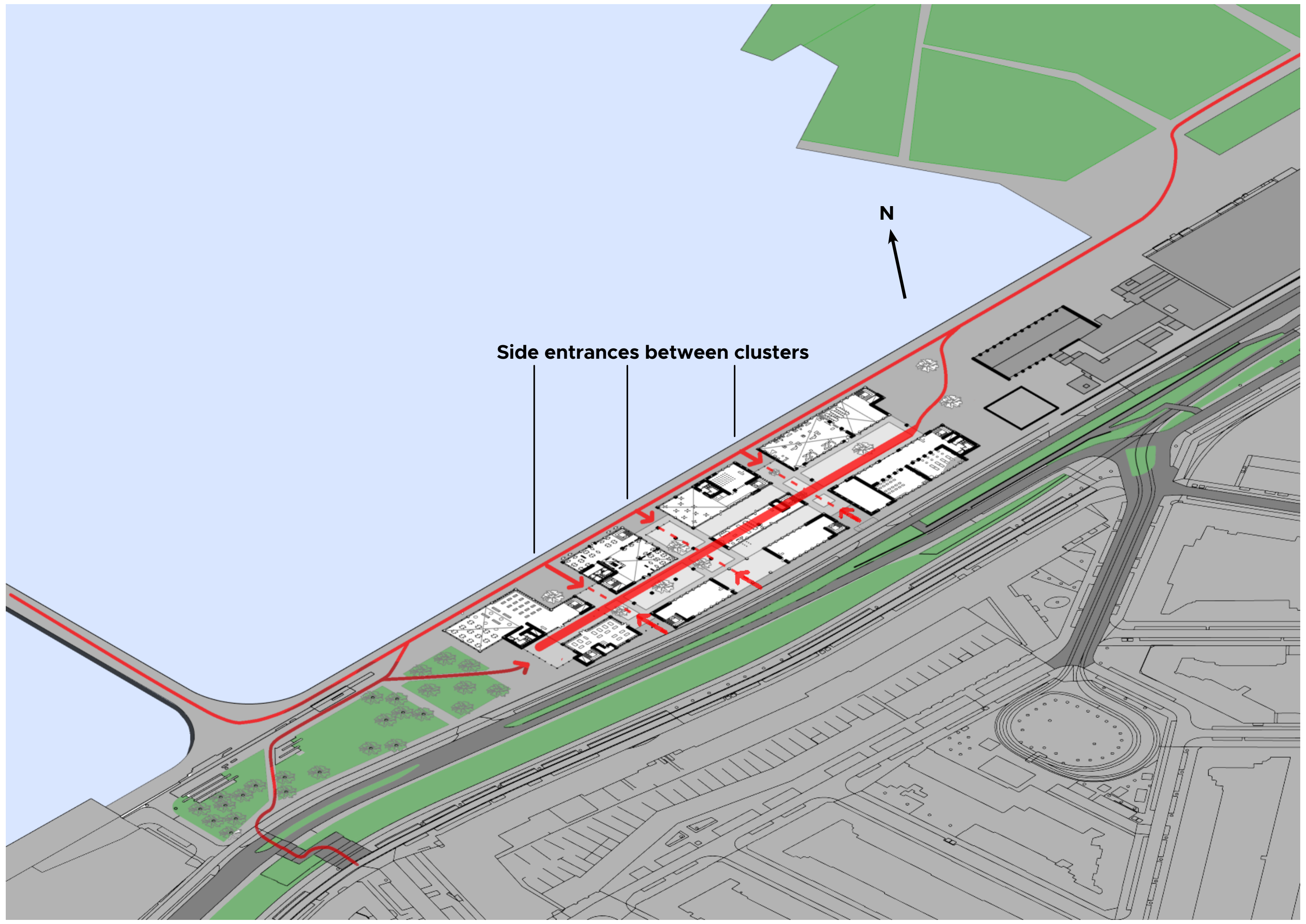




**East-West main routing axis**

**N**

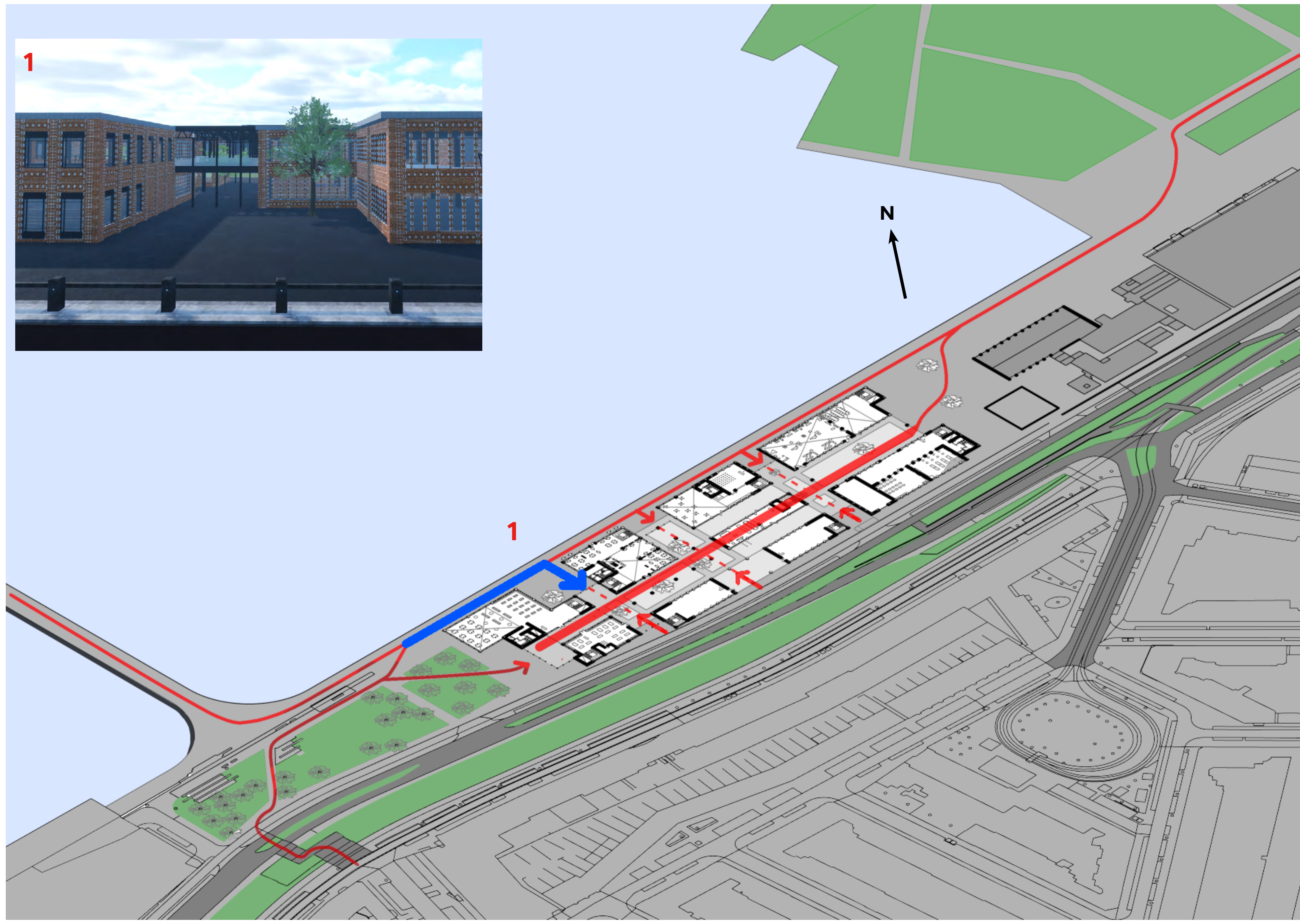




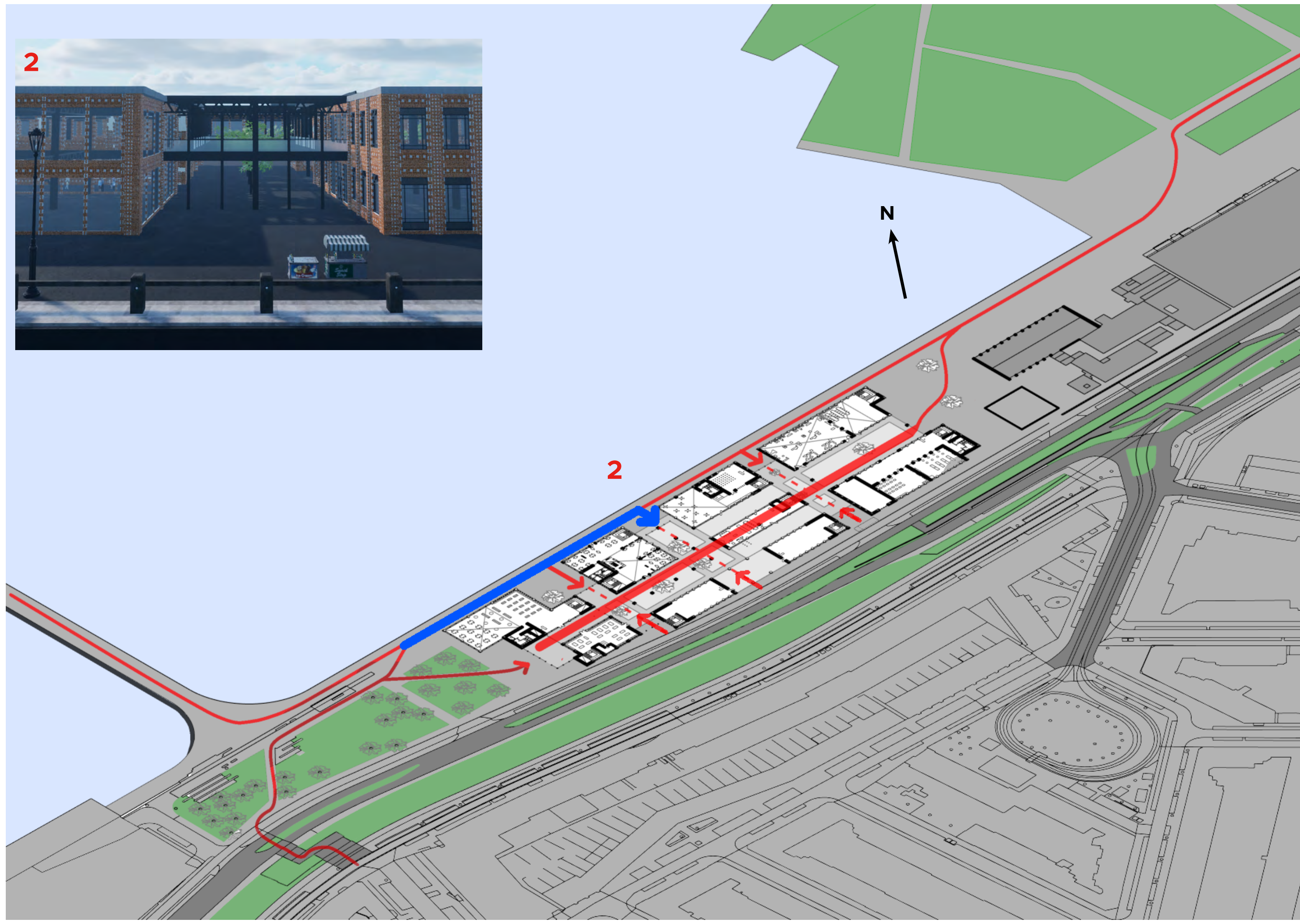
N

Side entrances between clusters

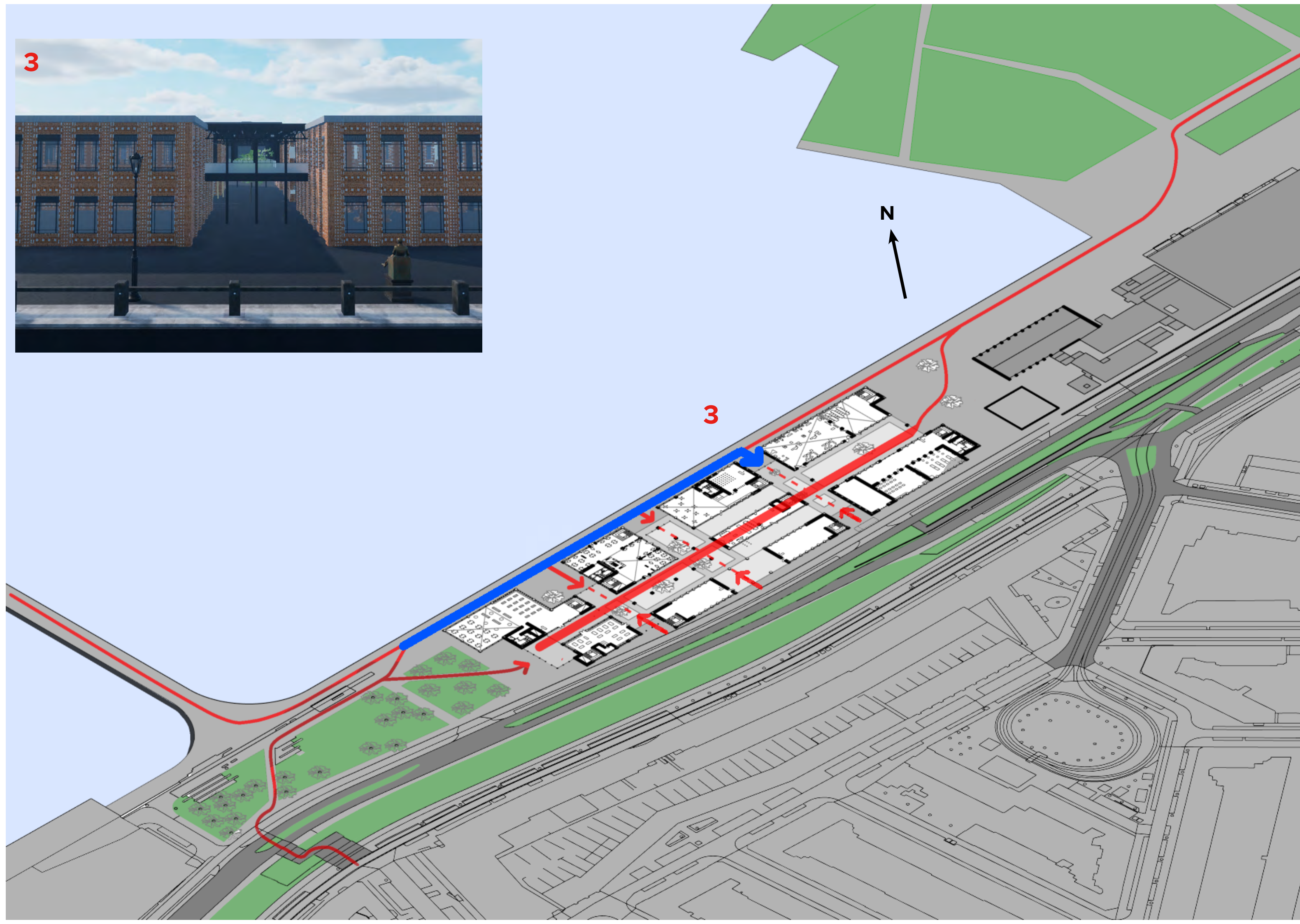








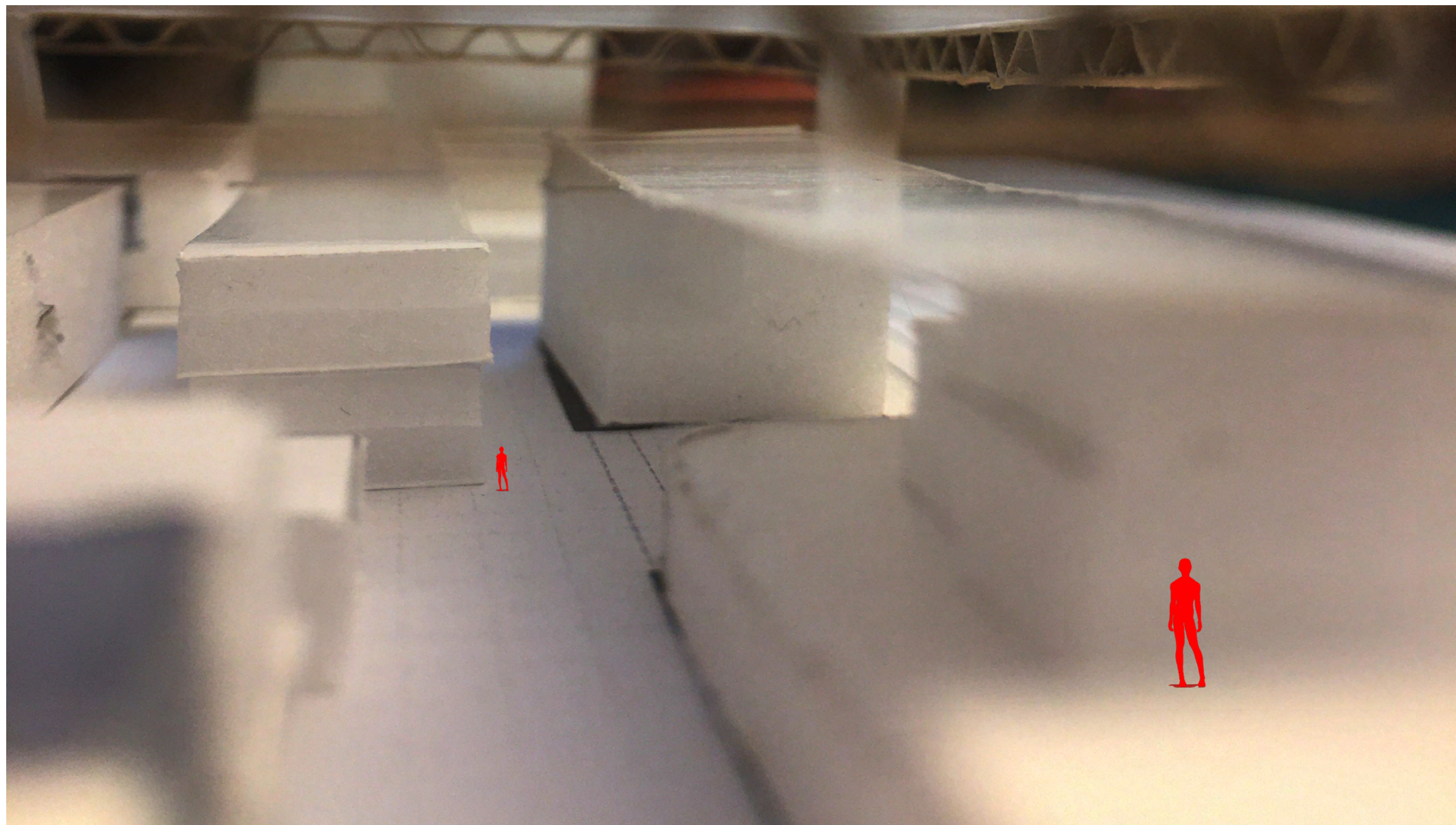






# **BUILDING COMPOSITION**









**Production Zone**

Privacy  
Introverted Space

**Socialising Zone**

Publicness  
Extroverted Space



**1. Brick**

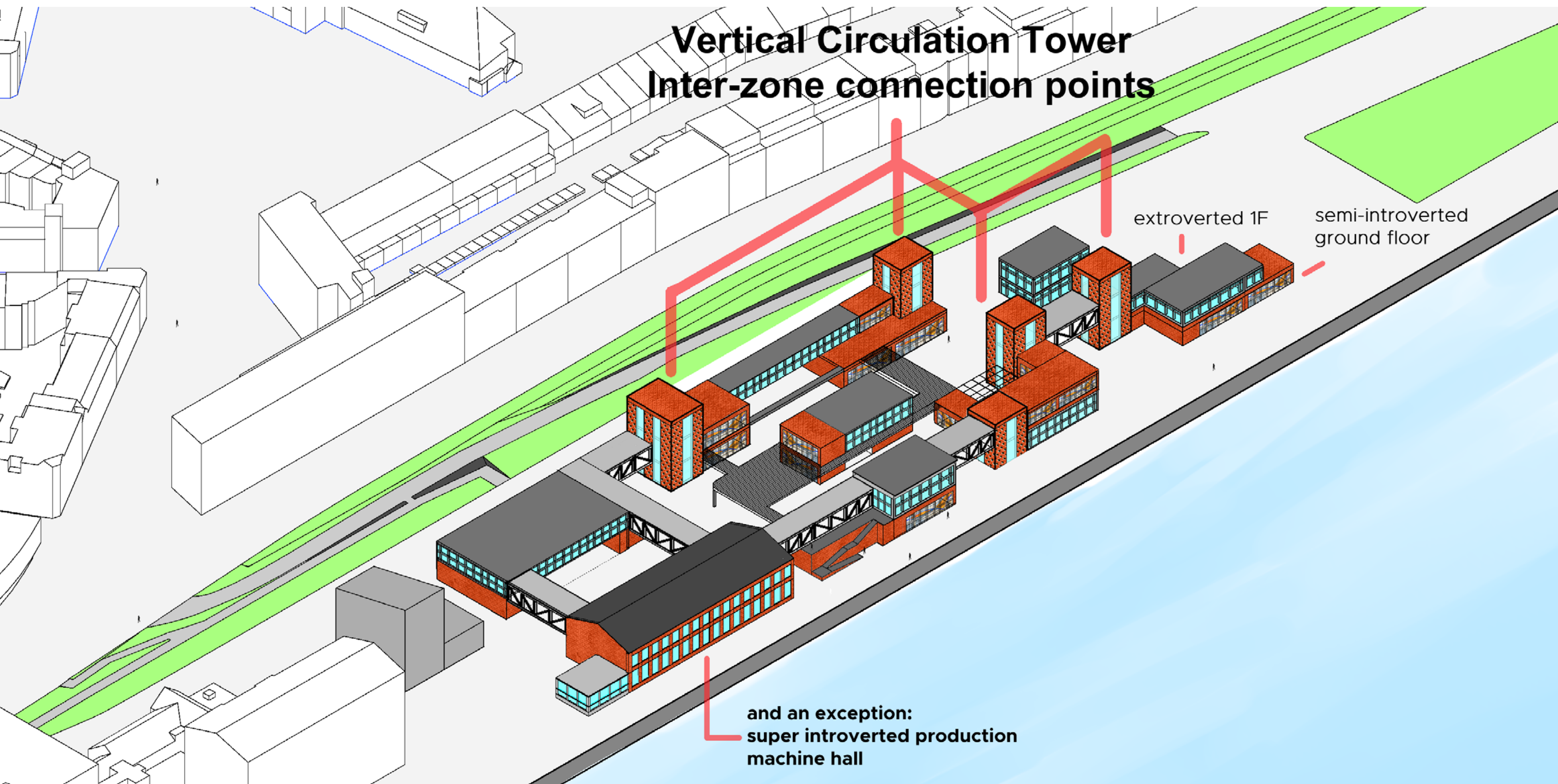
Introverted Space

**2. Curtain Wall**

Extroverted Space

**3. Steel Bridge**

Circulation/Connection

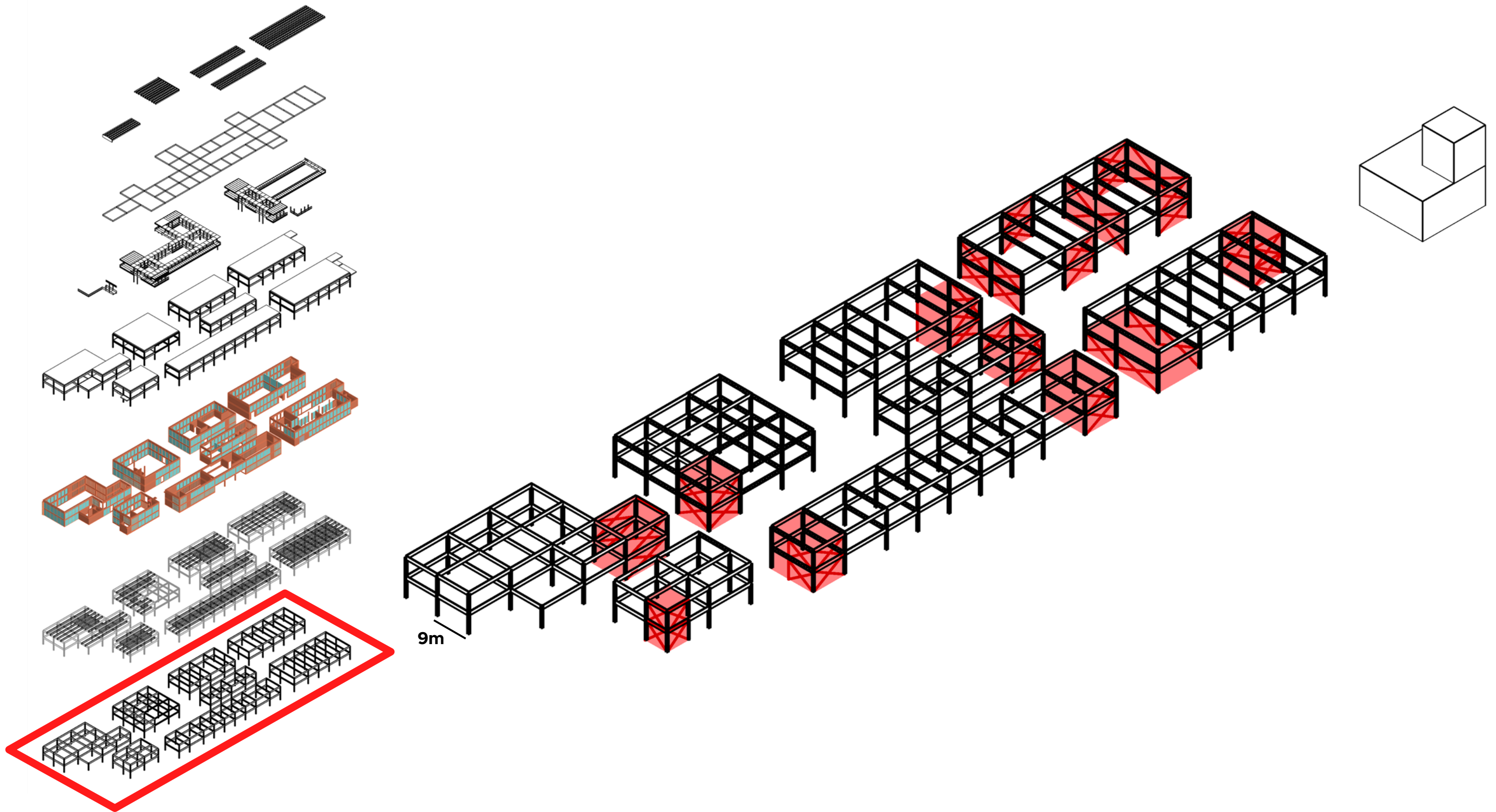




# **CONSTRUCTION (STRUCTURE)**

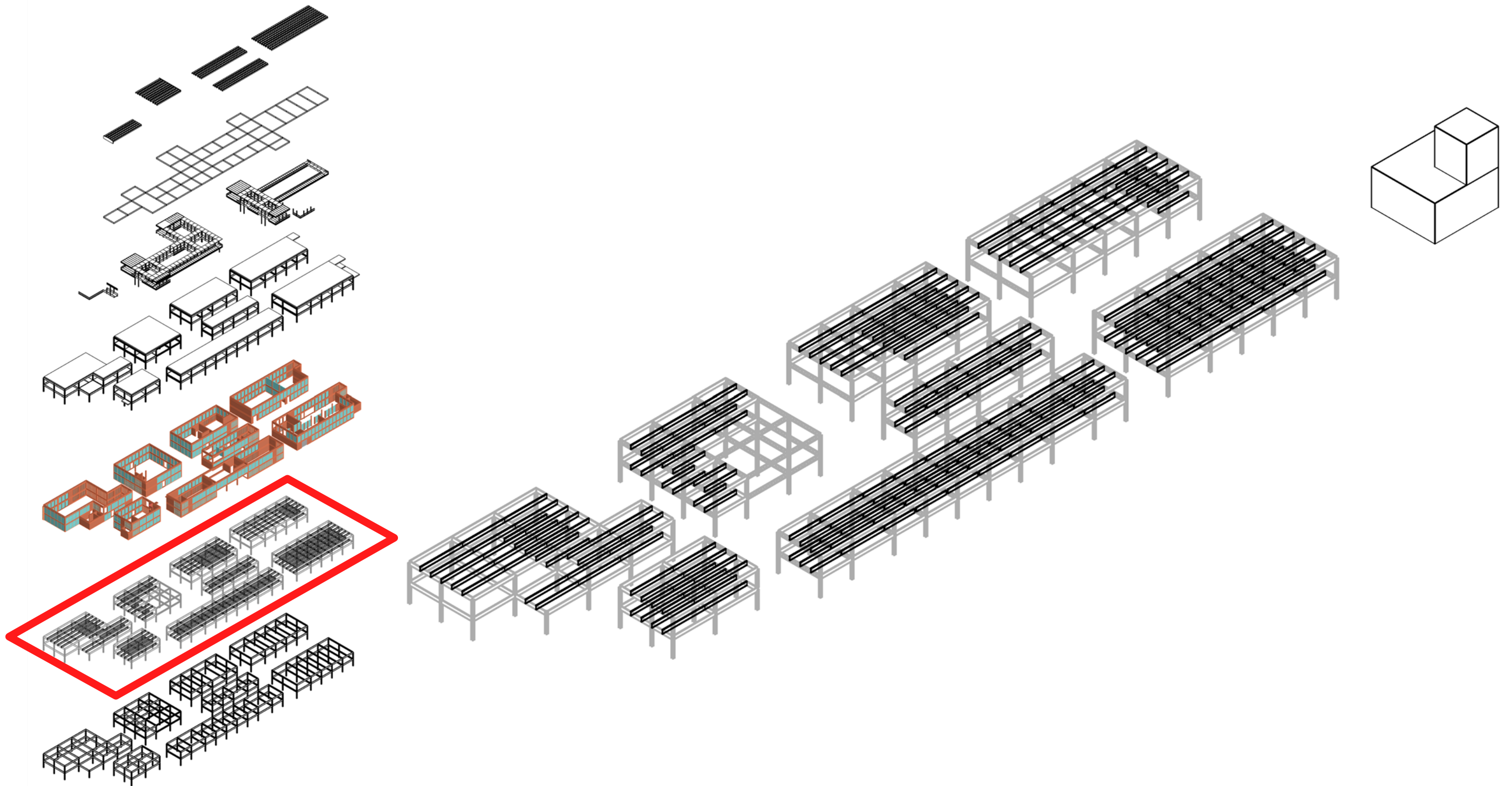


# Structural Elements



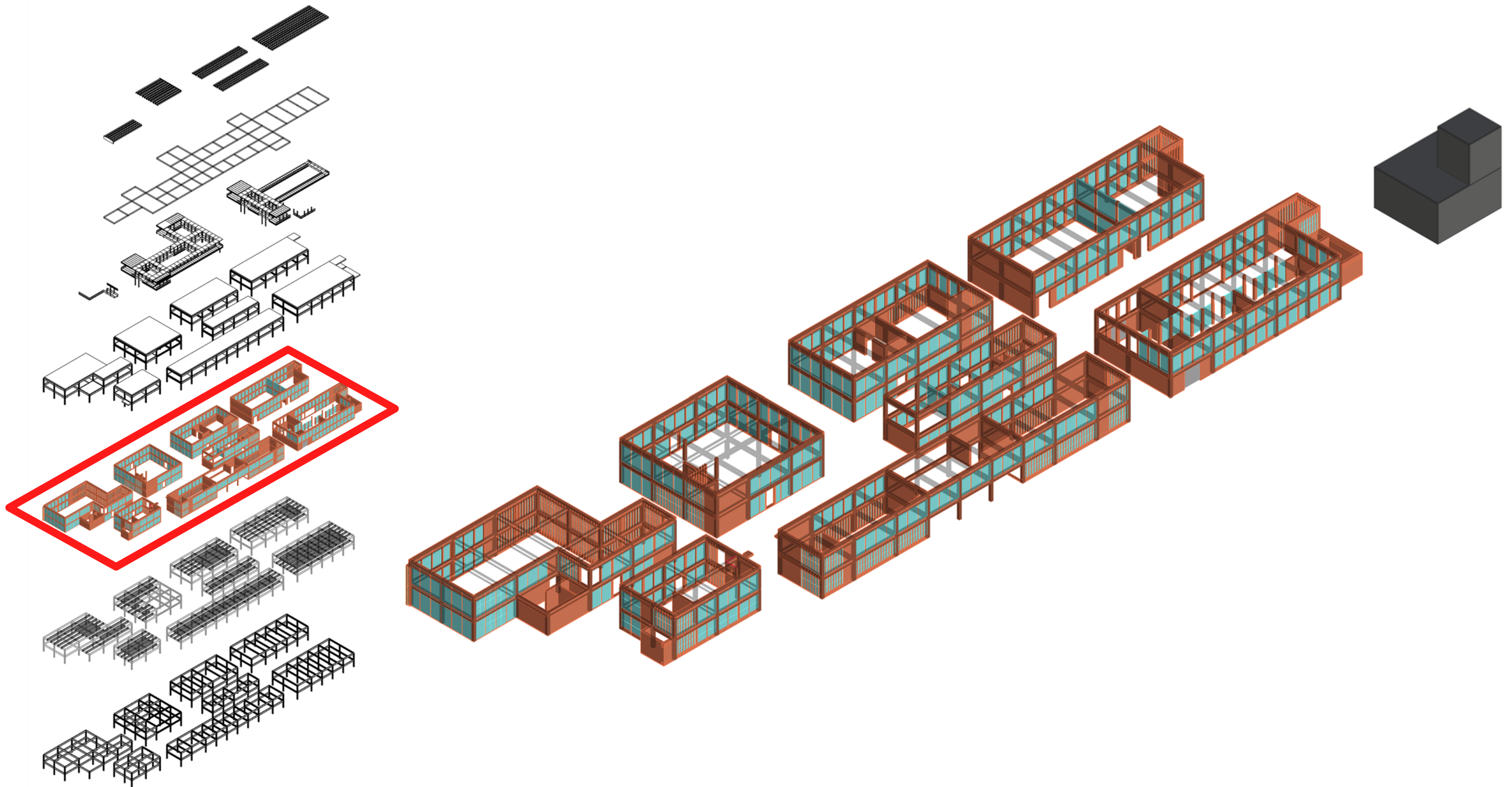


# Floor Slab Span



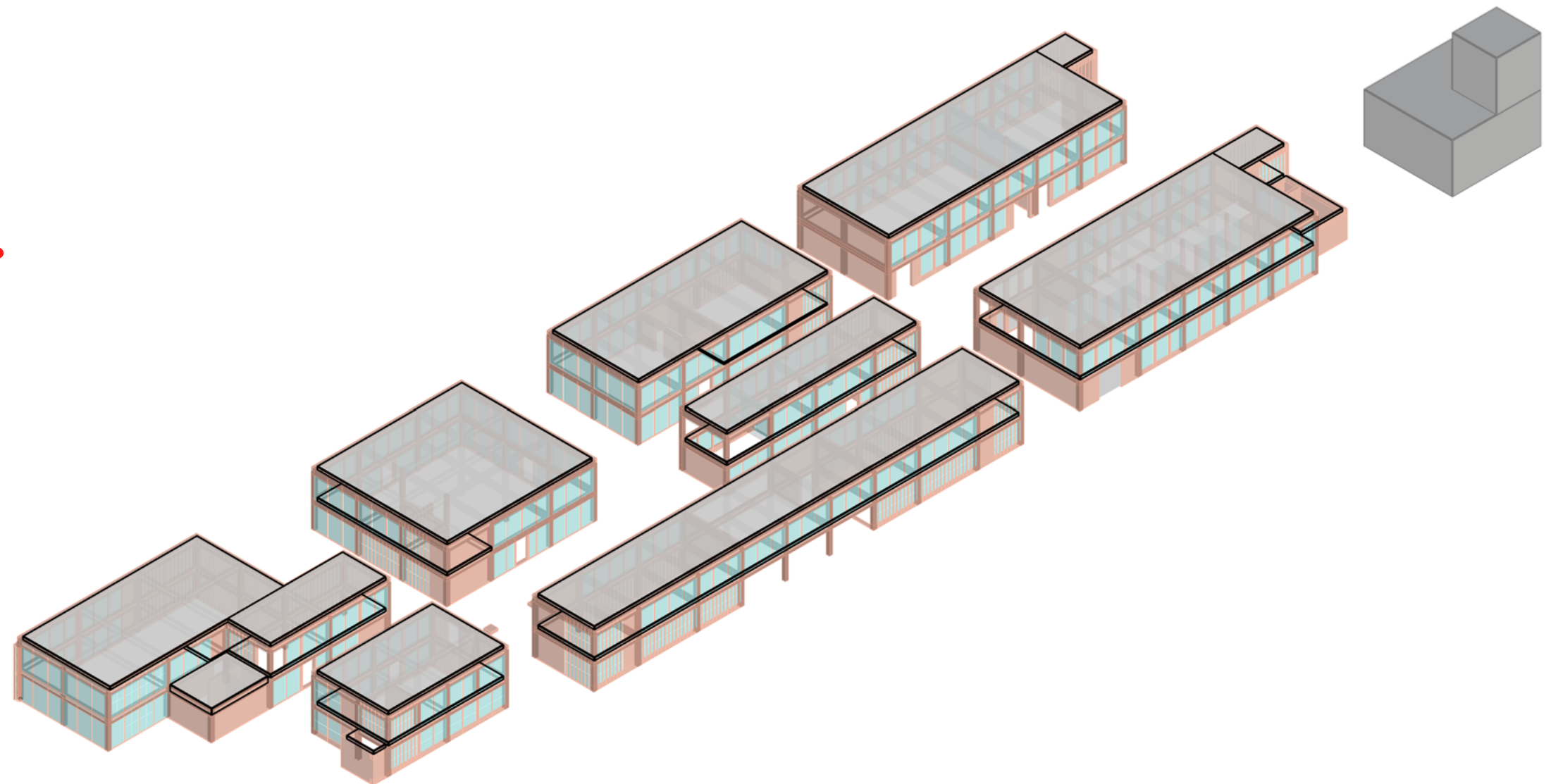
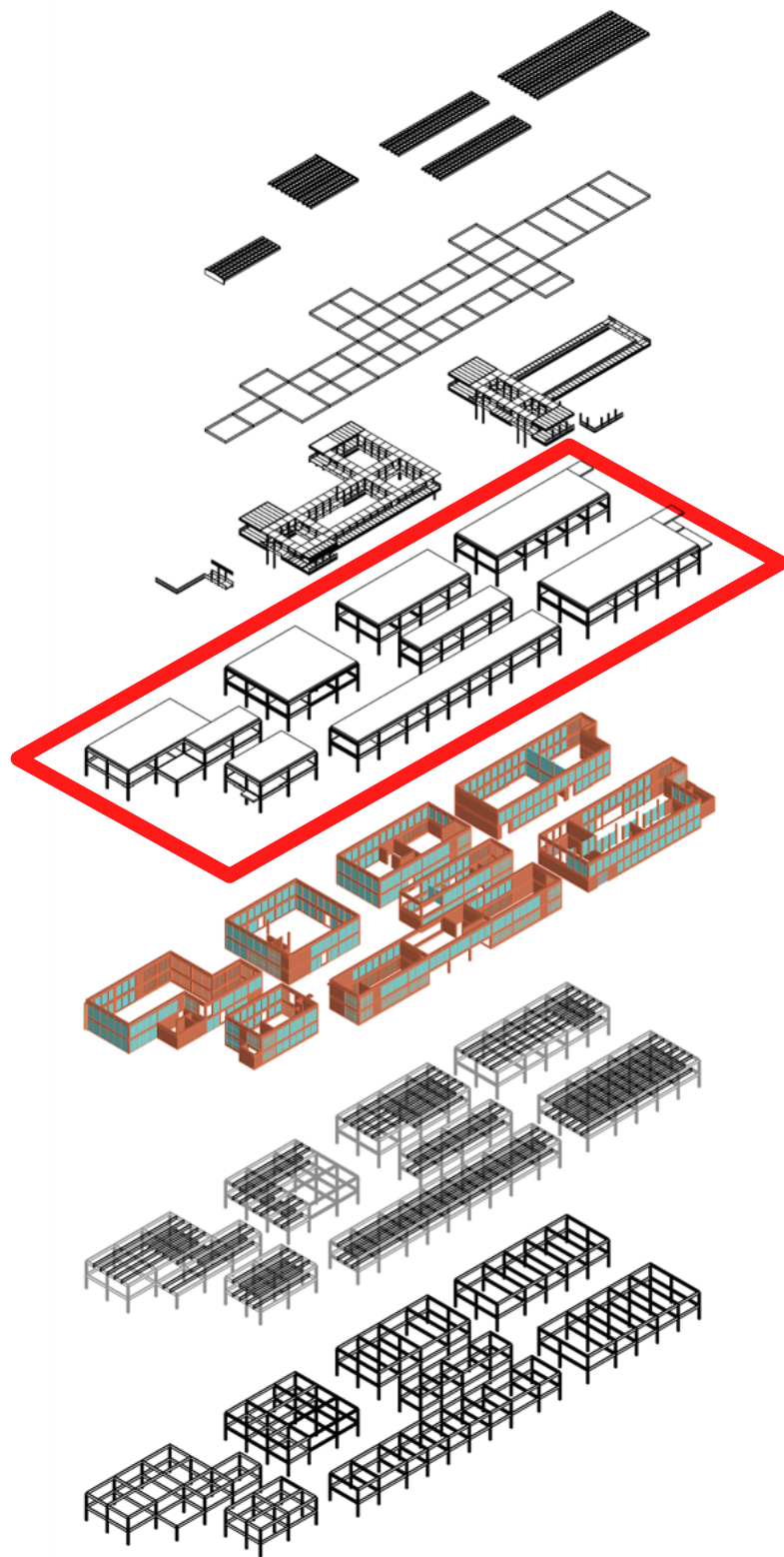


# Building Envelope



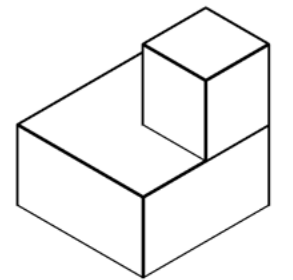
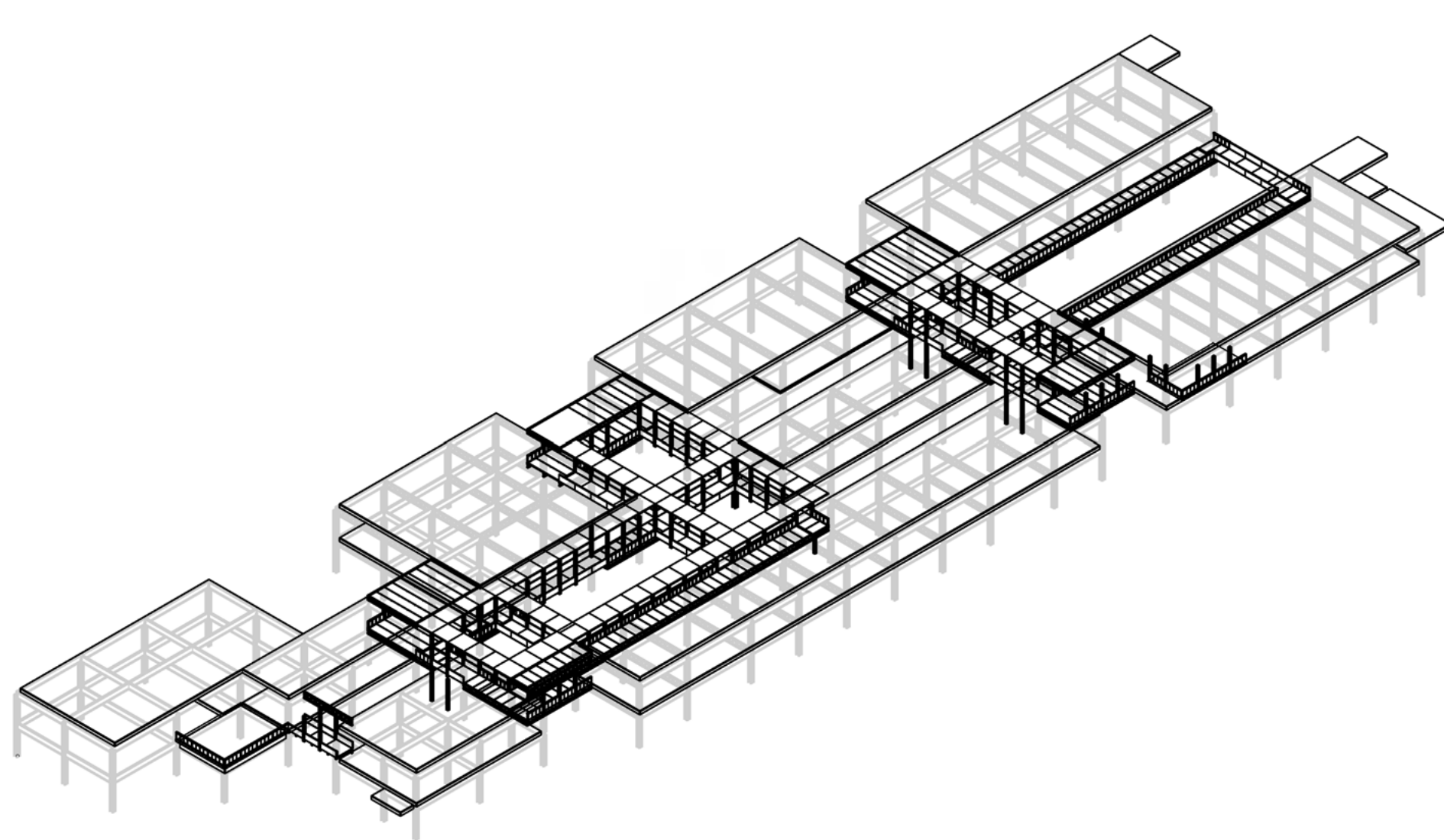
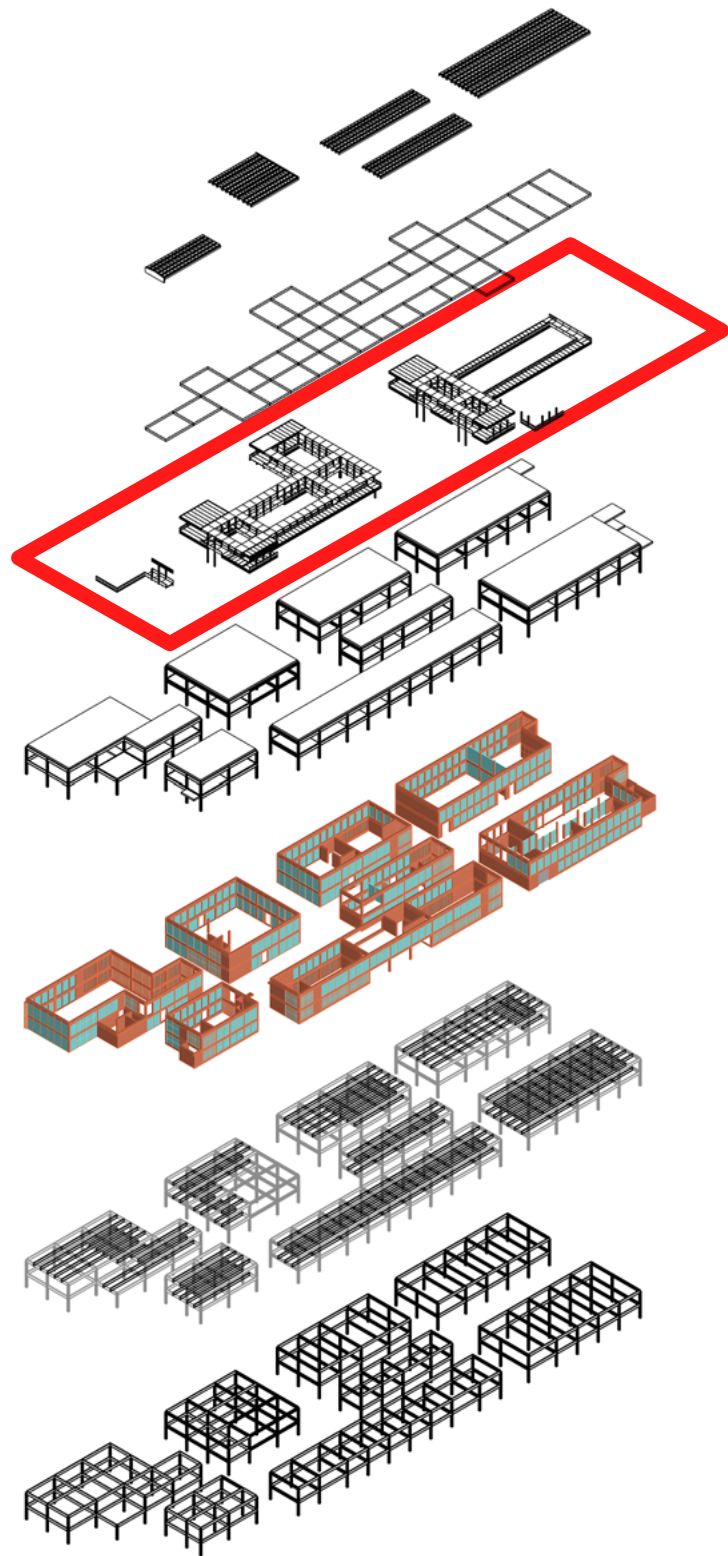


# Floor & Roof Slabs



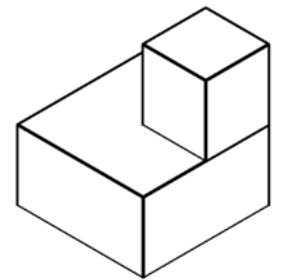
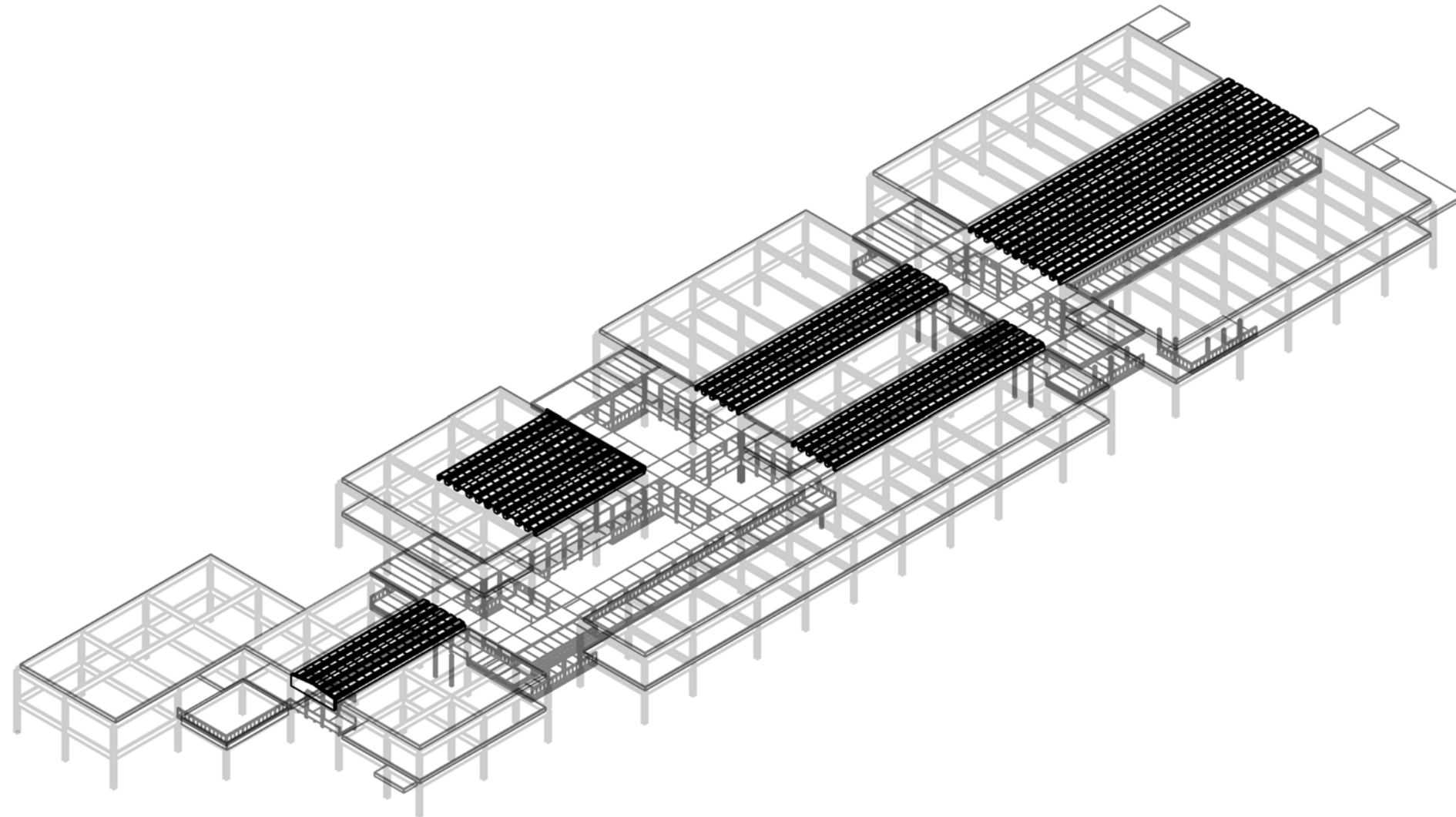
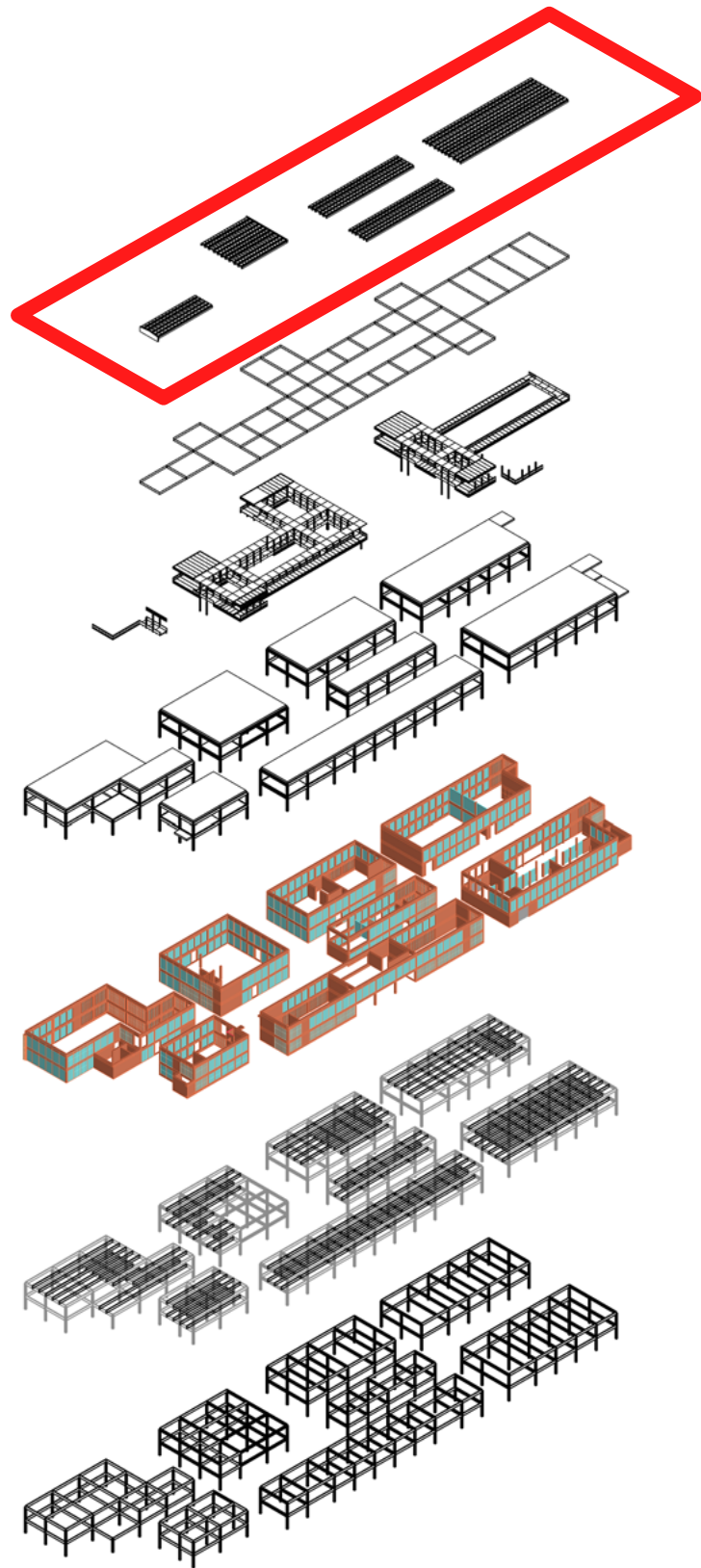


# Connection Bridge



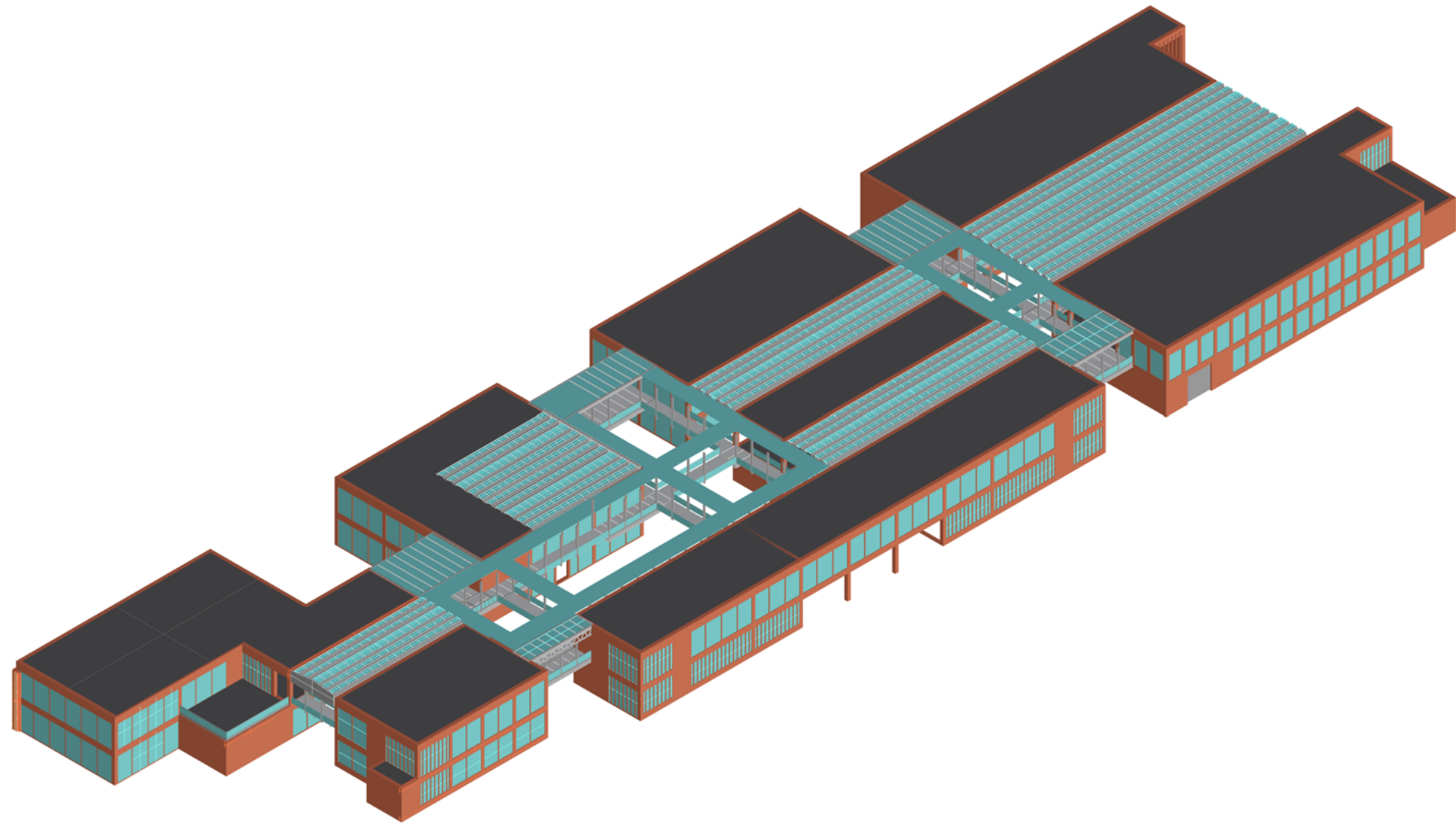
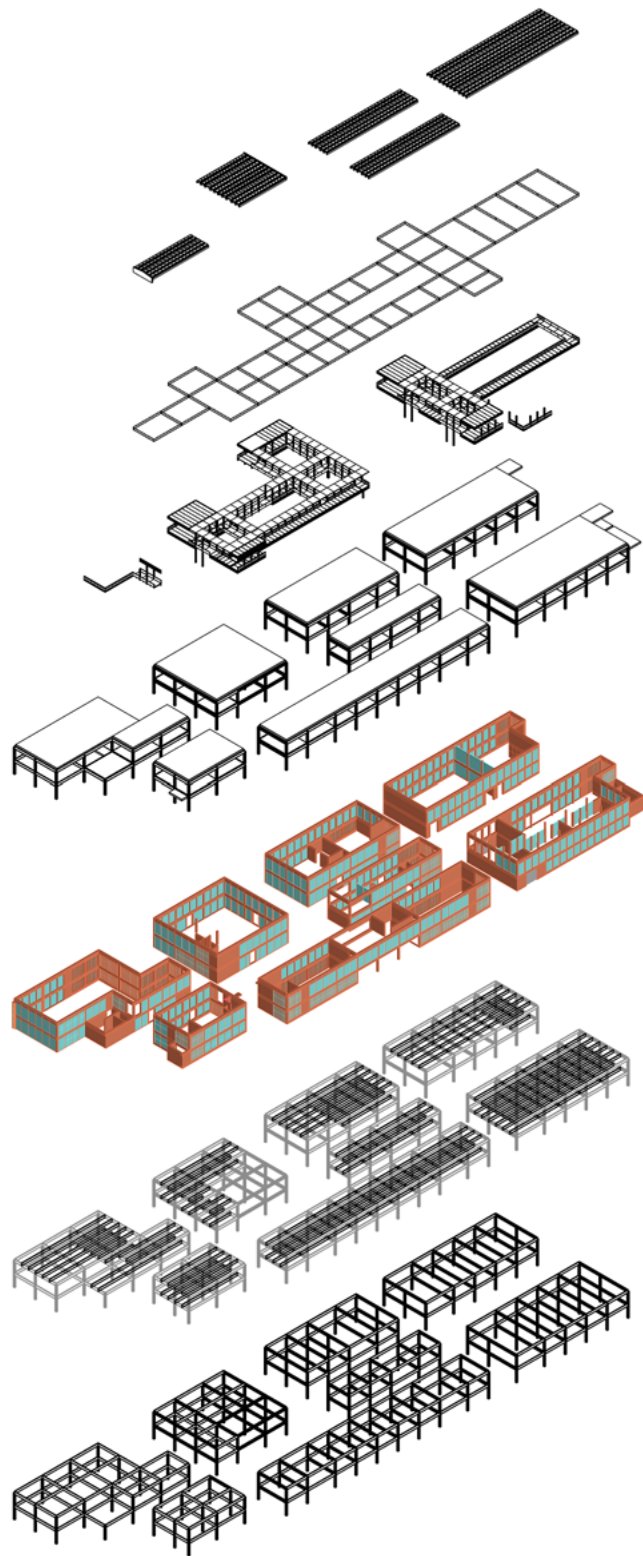


# Atrium Rooflight





# Overall Composition

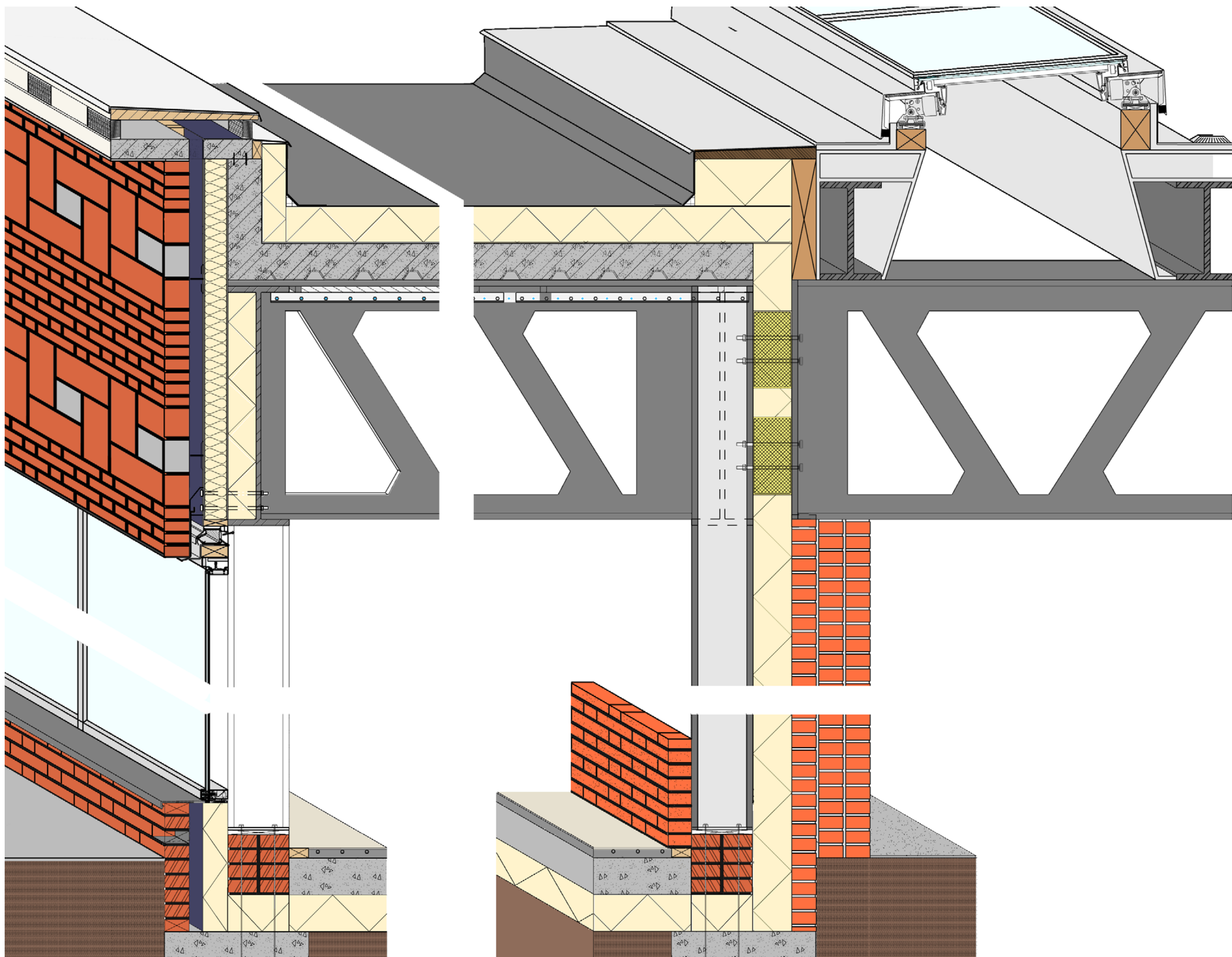




# **CRAFTSMANSHIP OF FACADE**

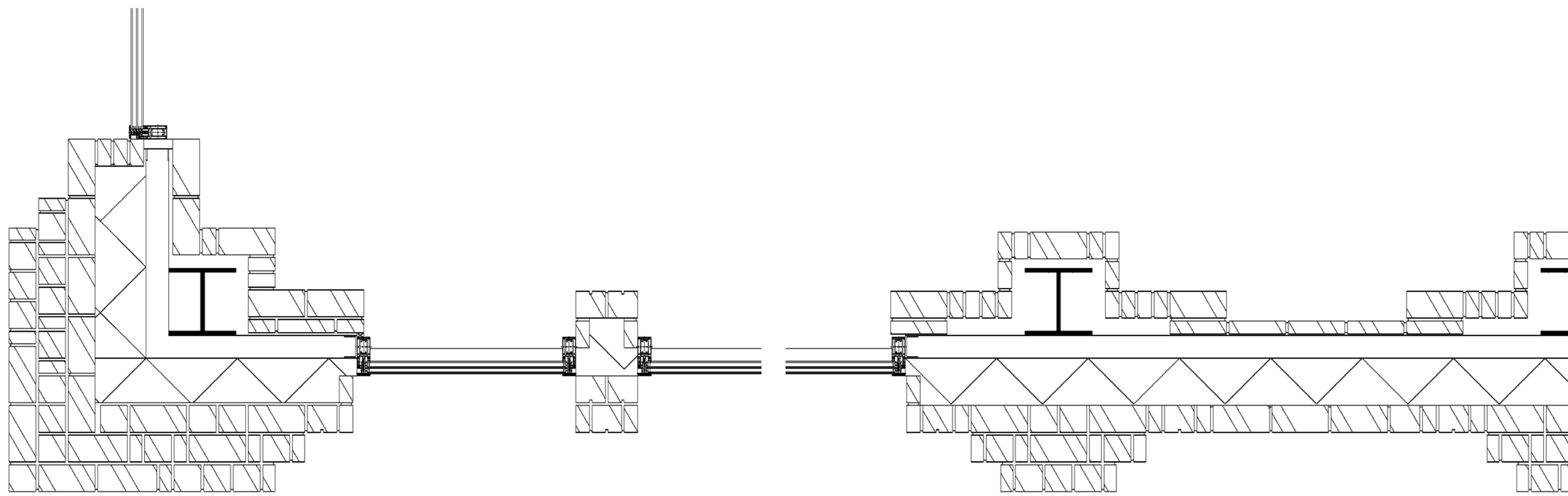


1:20 facade vertical section





1:20 facade horizontal section





# Facade study of Quaker Oats Rotterdam



→ **contoured  
column**

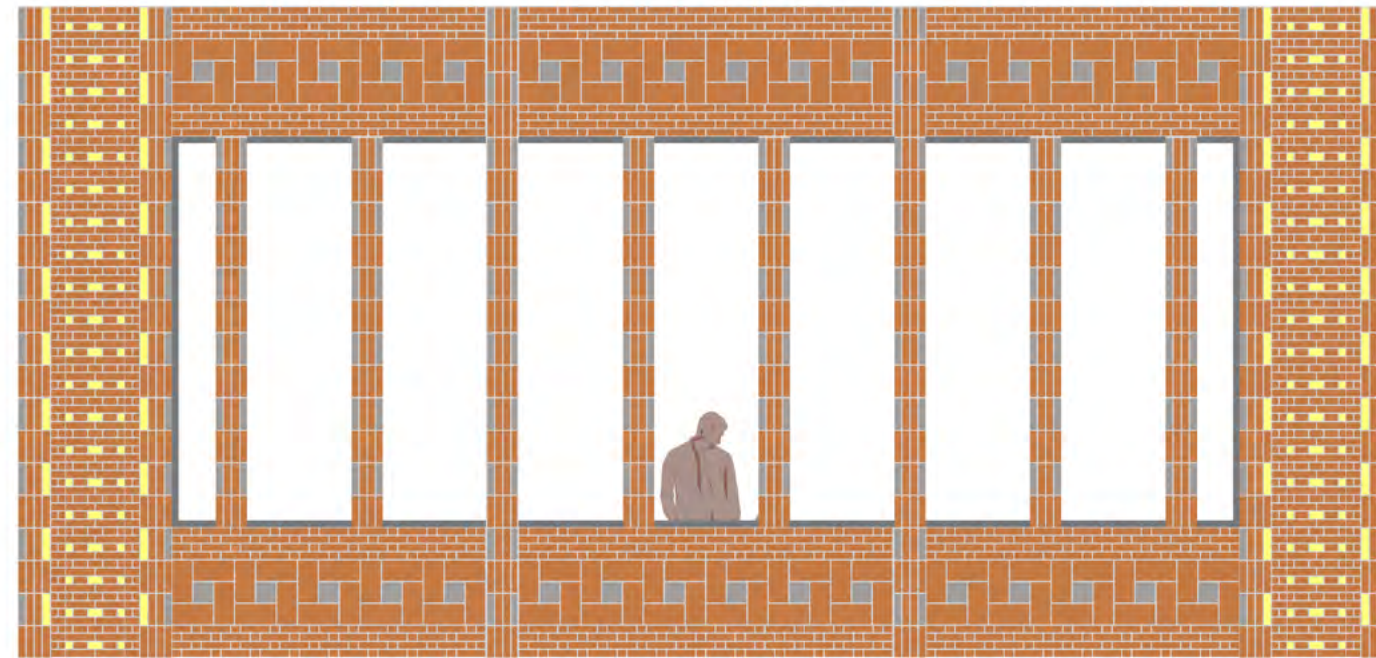


→ **roofscape  
contrast**

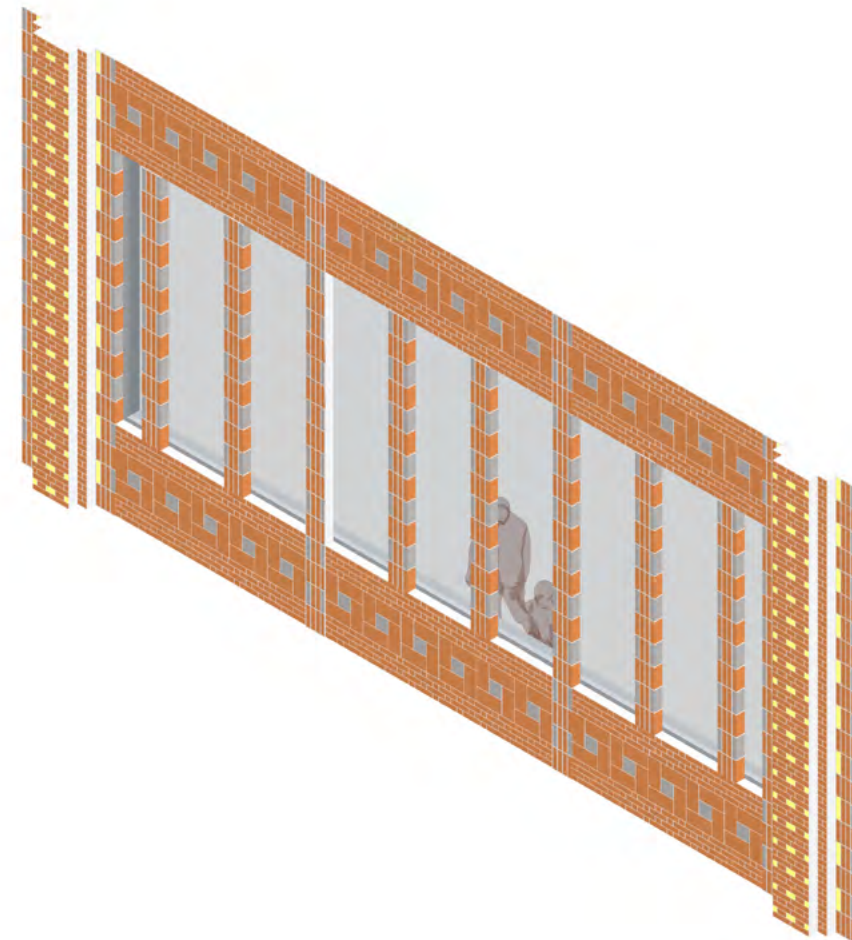
→ **colour  
variation**



# Facade study 1: Introverted space (dense brick elements)

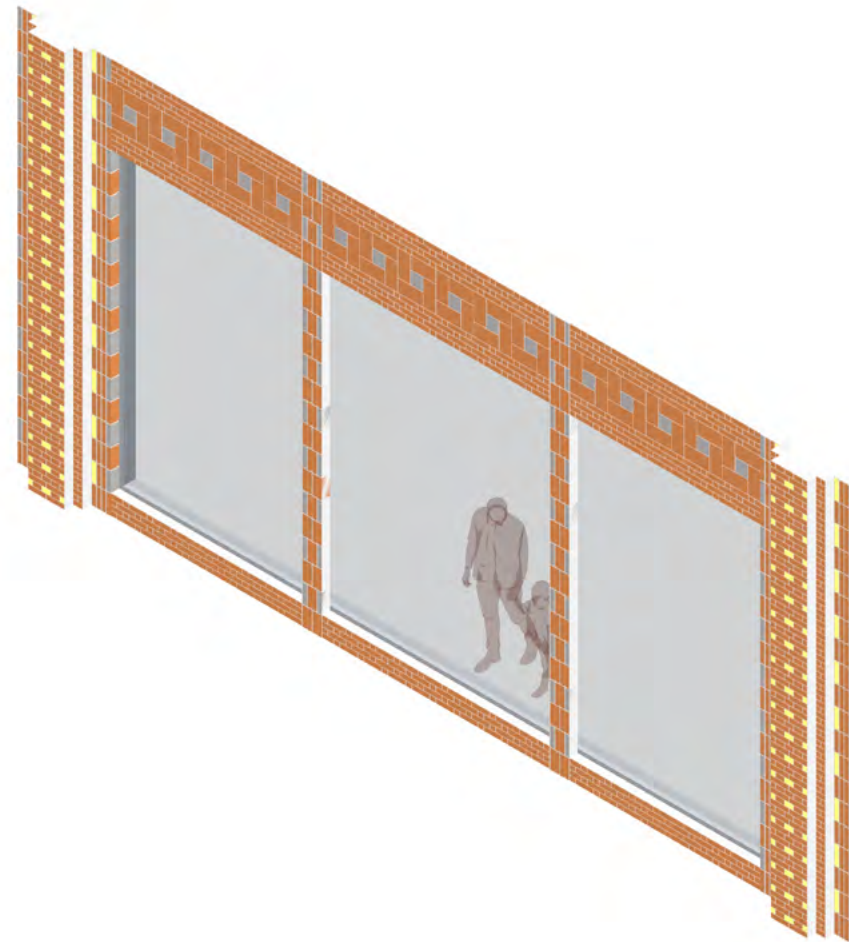
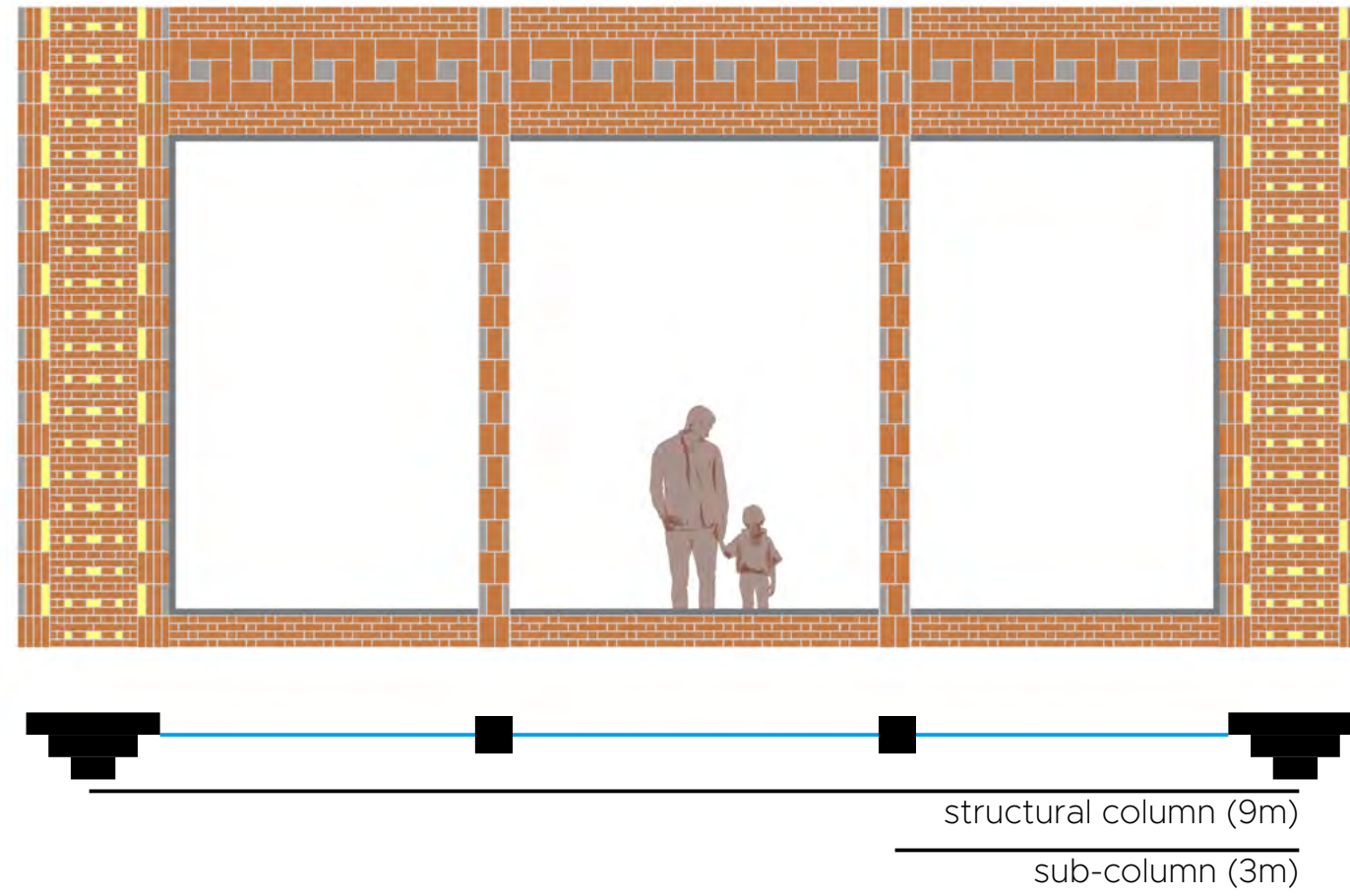


structural column (9m)  
sub-column (3m)  
window sub-division (1m)



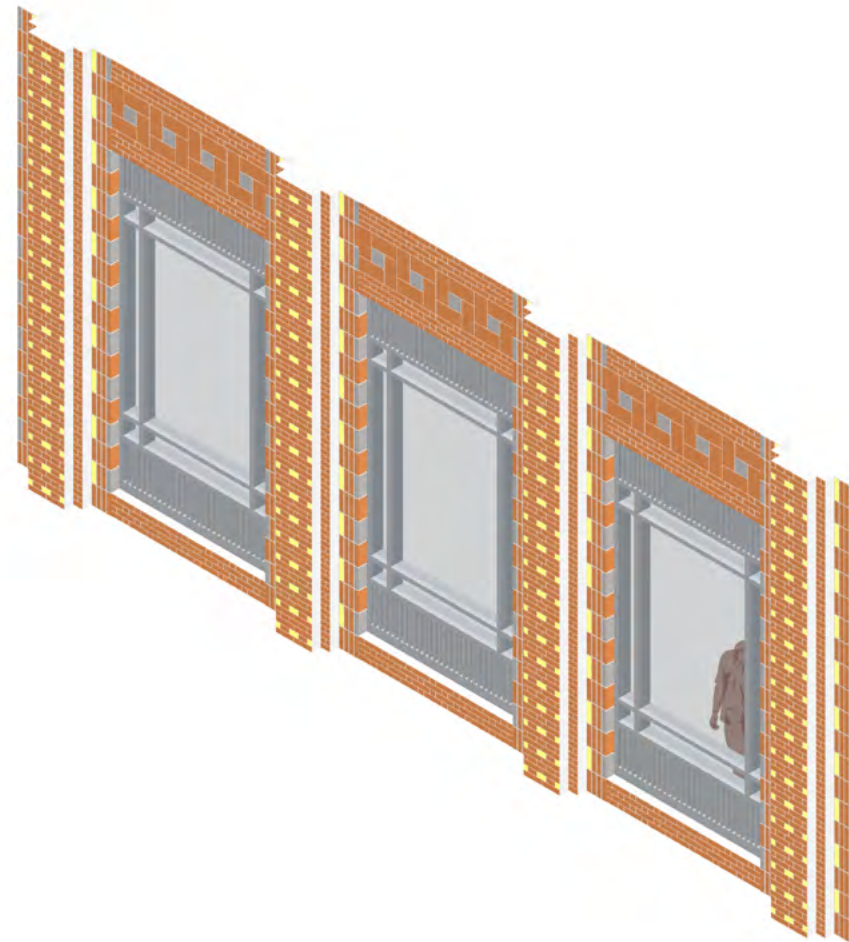
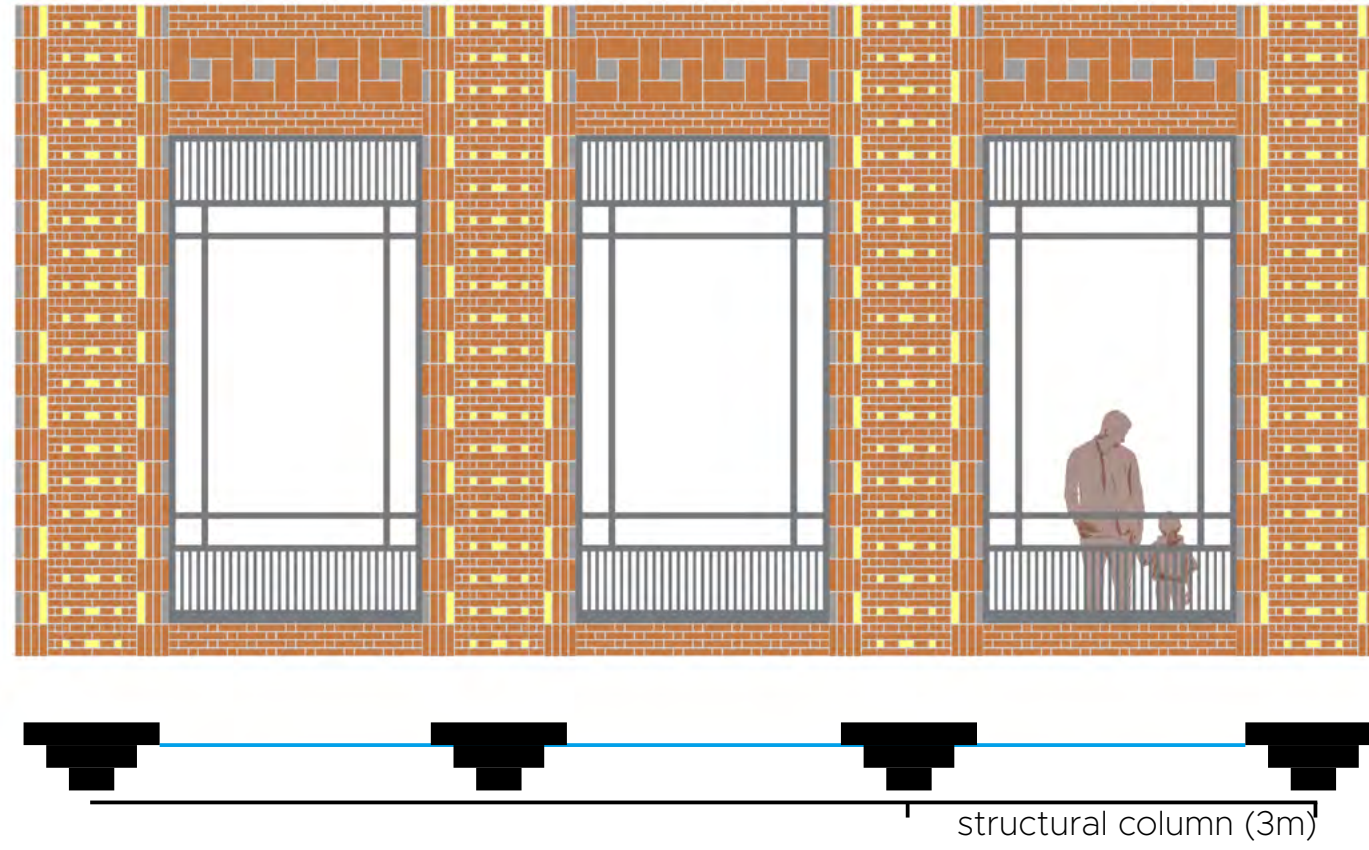


## Facade study 2: Extroverted space (curtain wall)

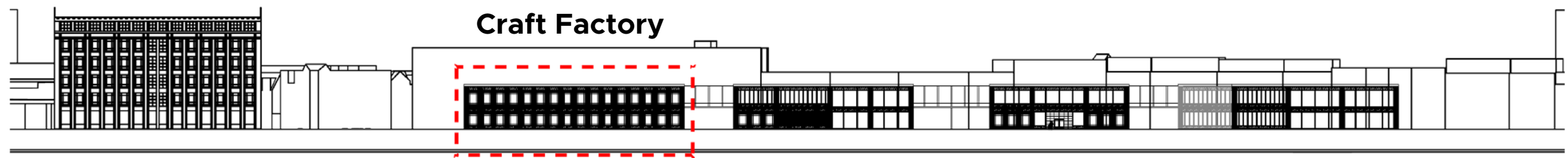




## Facade study 3a: Ambiverted space

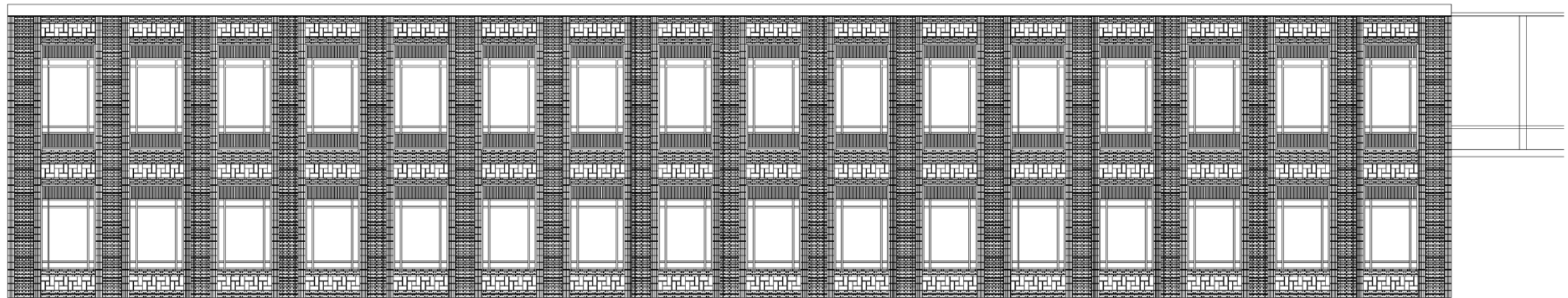




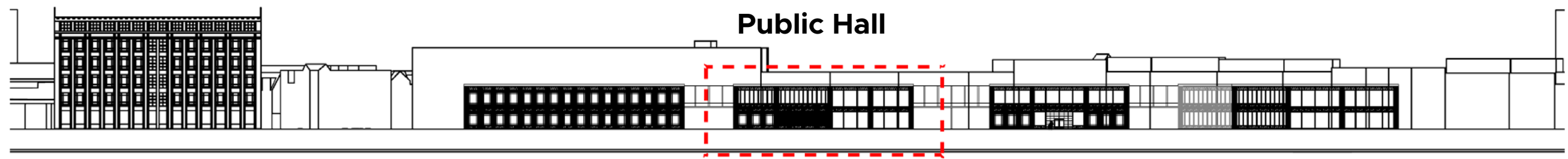


wood-& metalcrafts studio

production machine hall

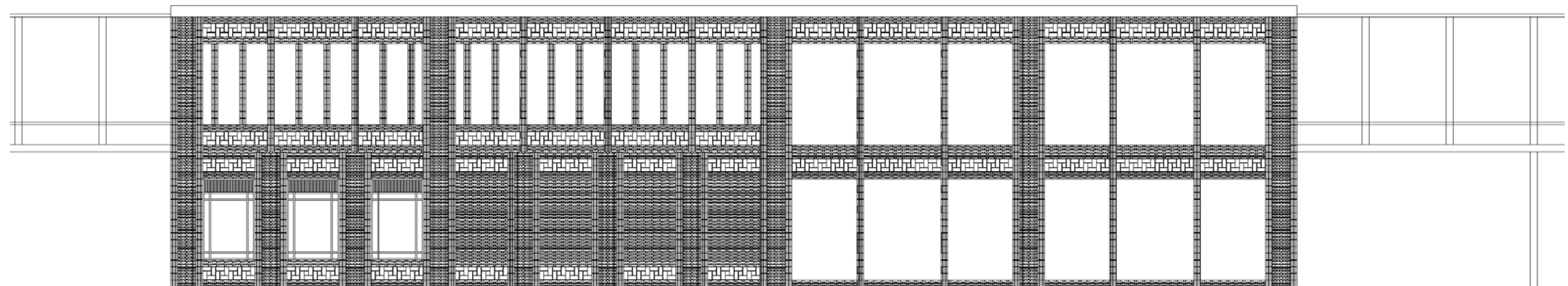




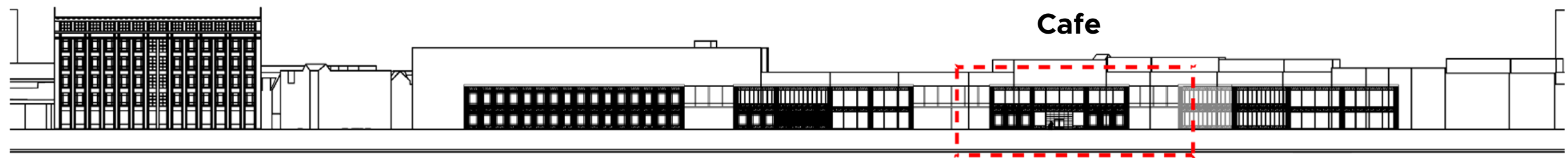


exhibition hall  
lecture hall

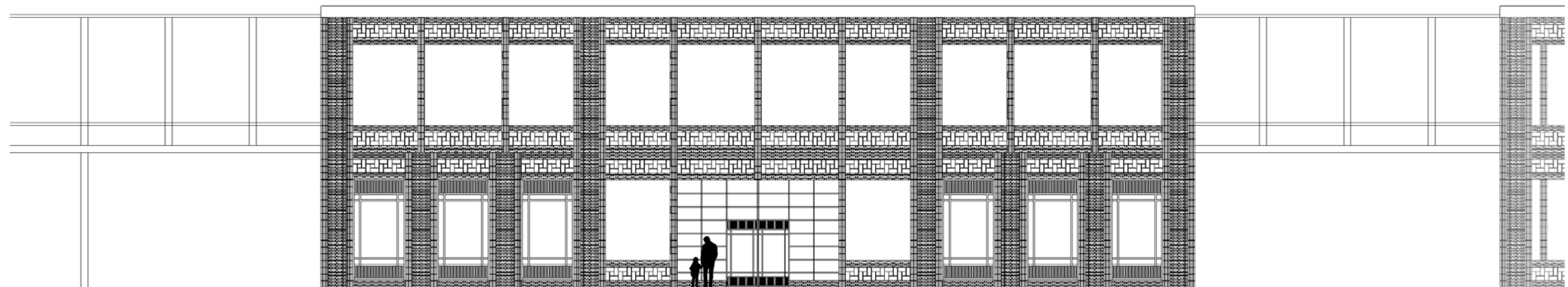
community  
centre



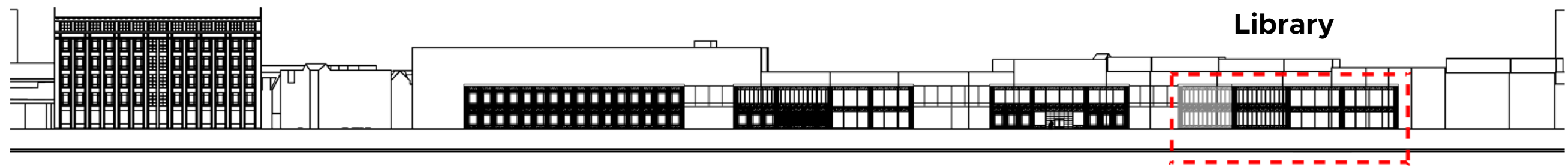




waterfront viewing cafe seats

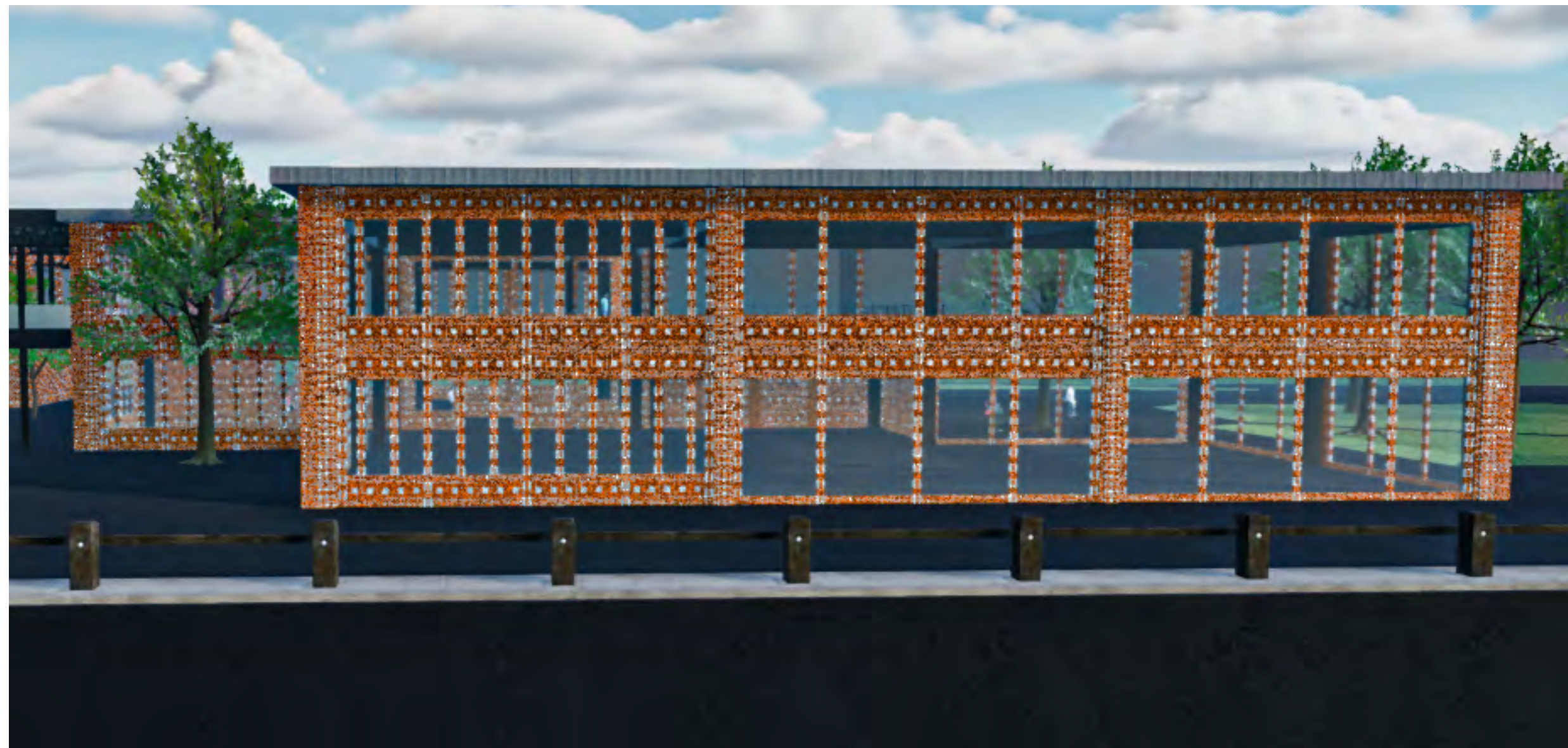
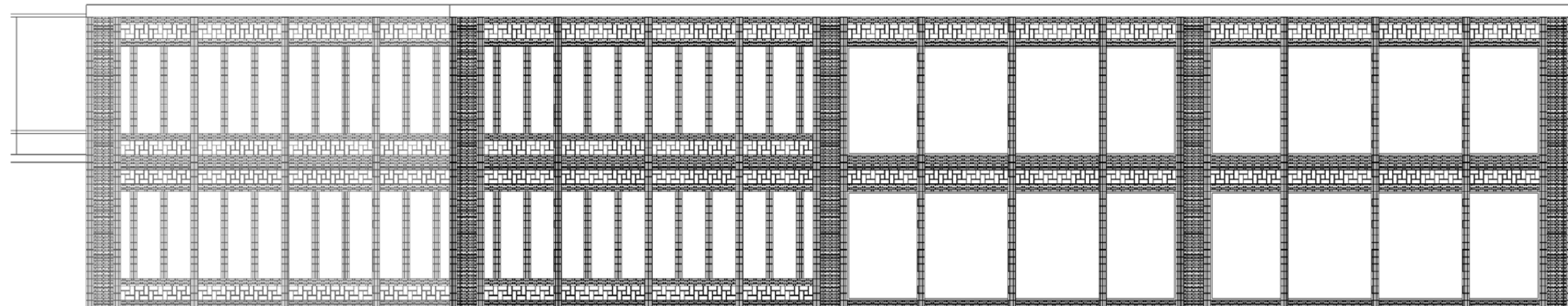






Bookshelves

Reading space / Lounge





**CLIMATE**

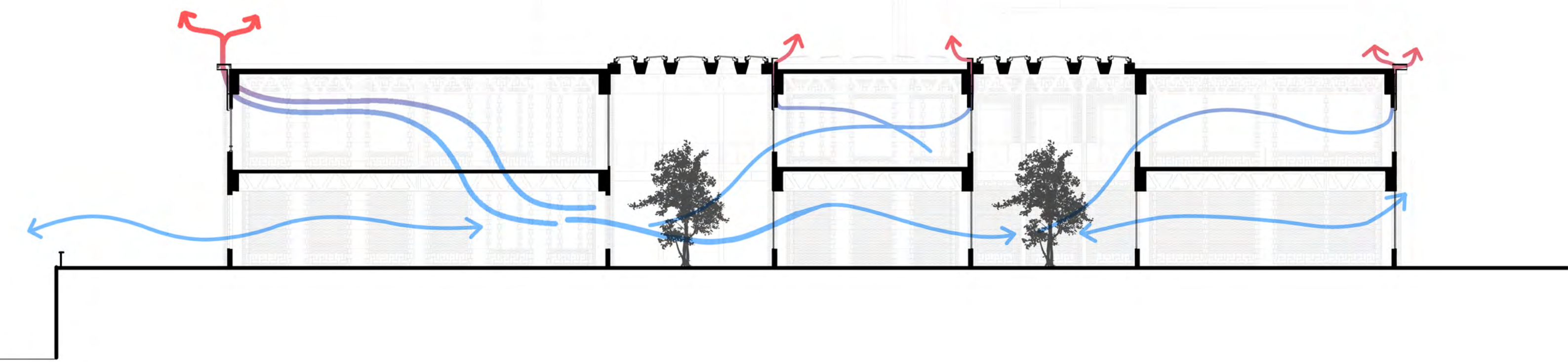


**Natural daylight via  
atrium rooflight & curtain wall**



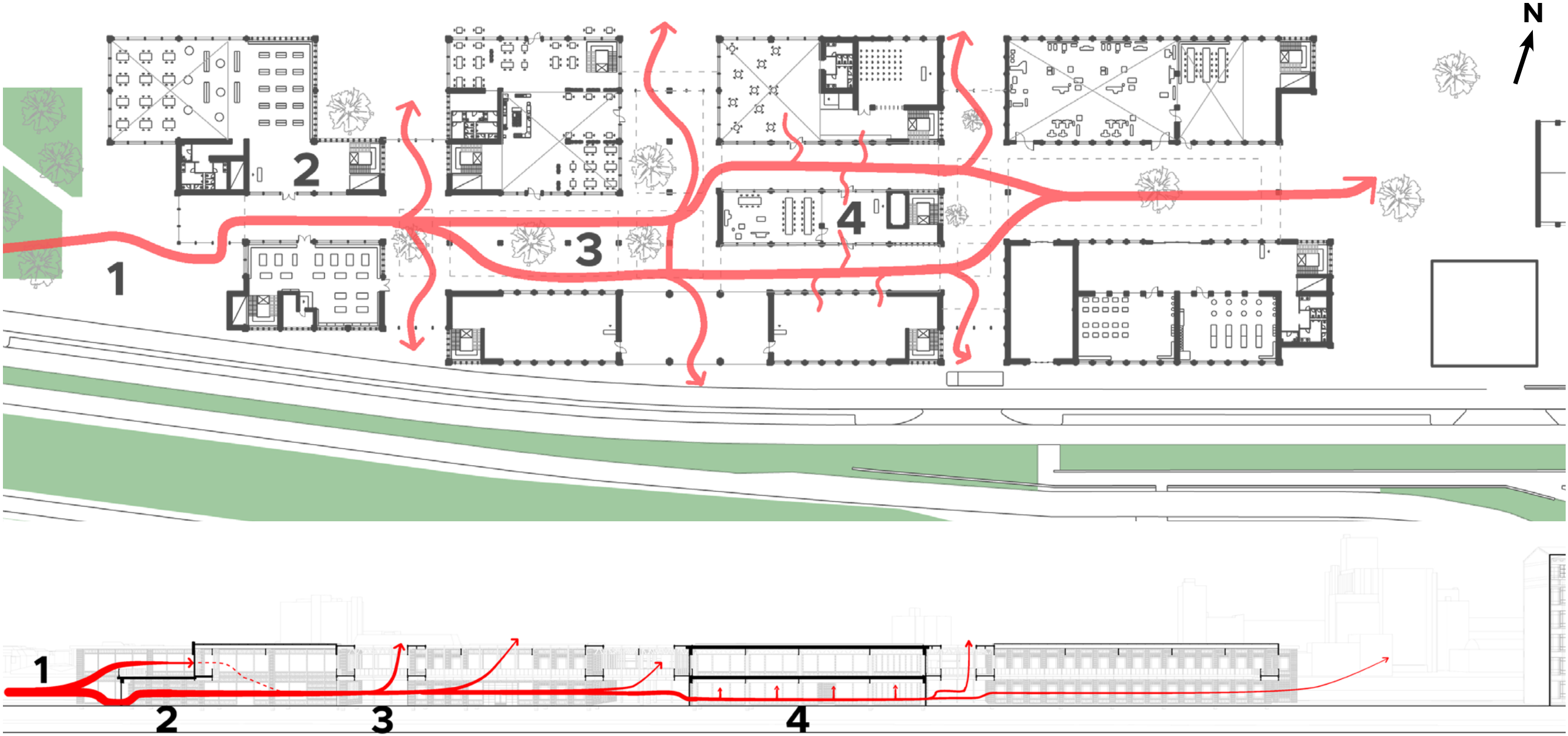


Natural Ventilation via  
Atrium as GreenLung

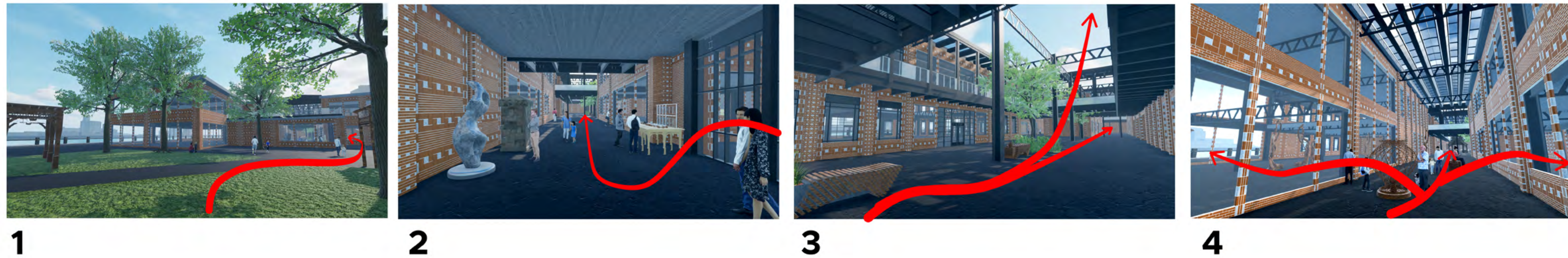




1:1000 Plan & Long Section

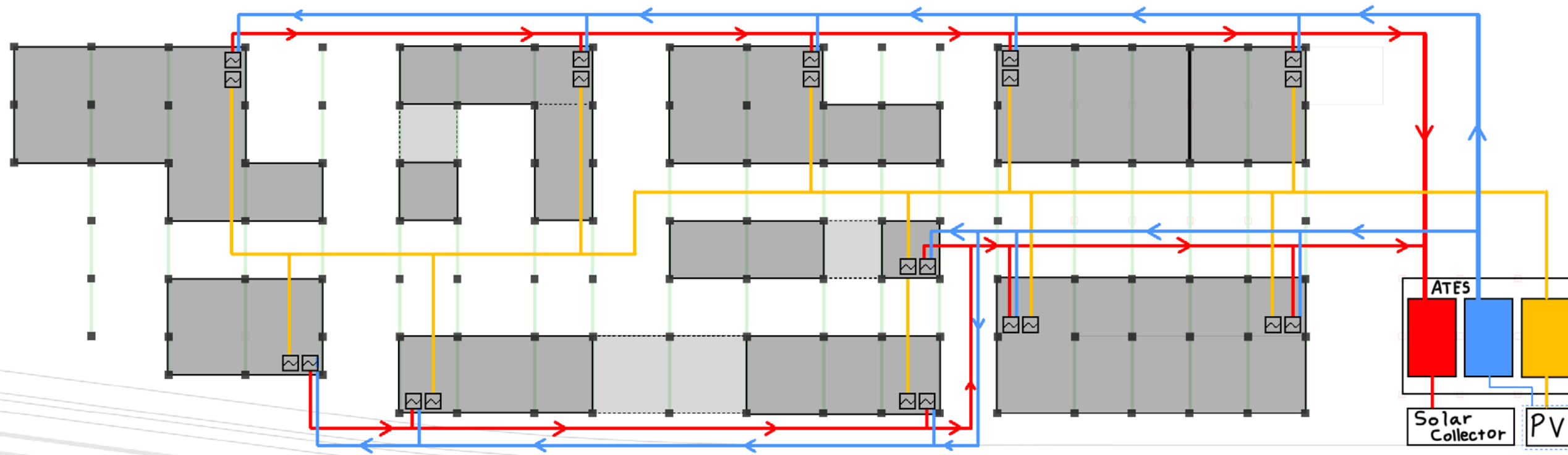
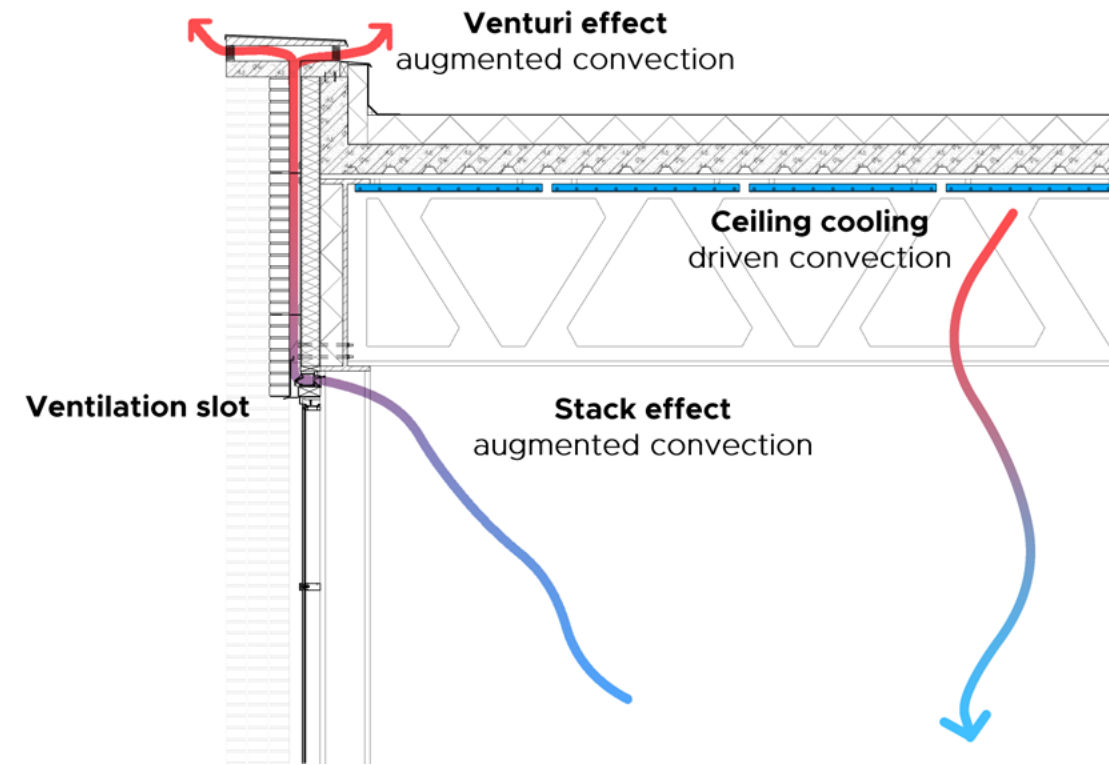


Wind Flow Illustration



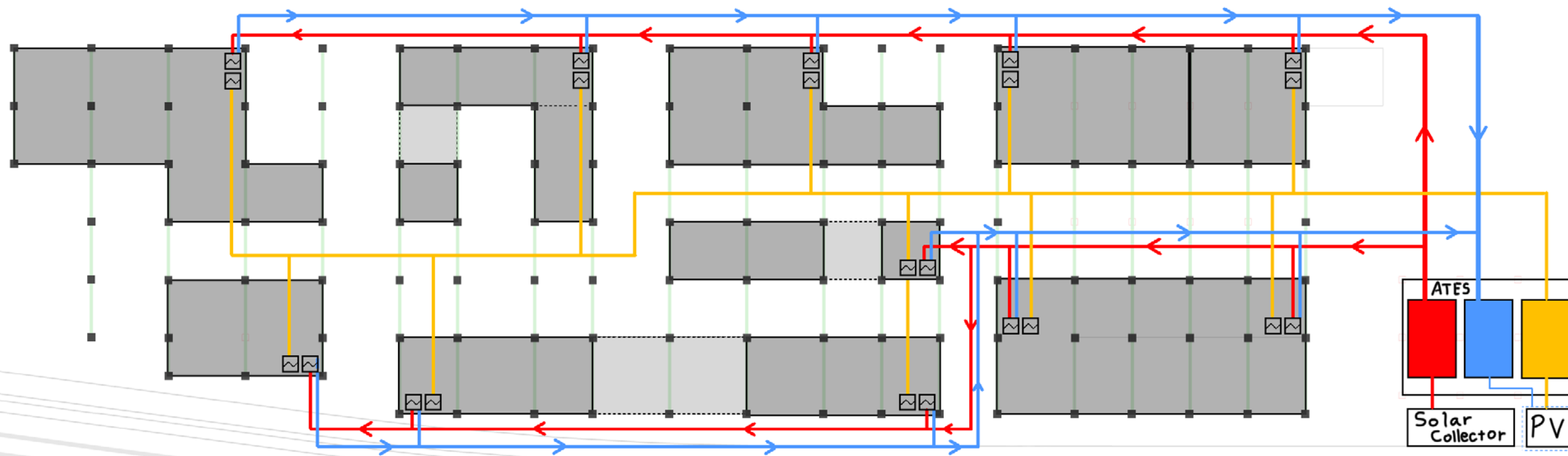
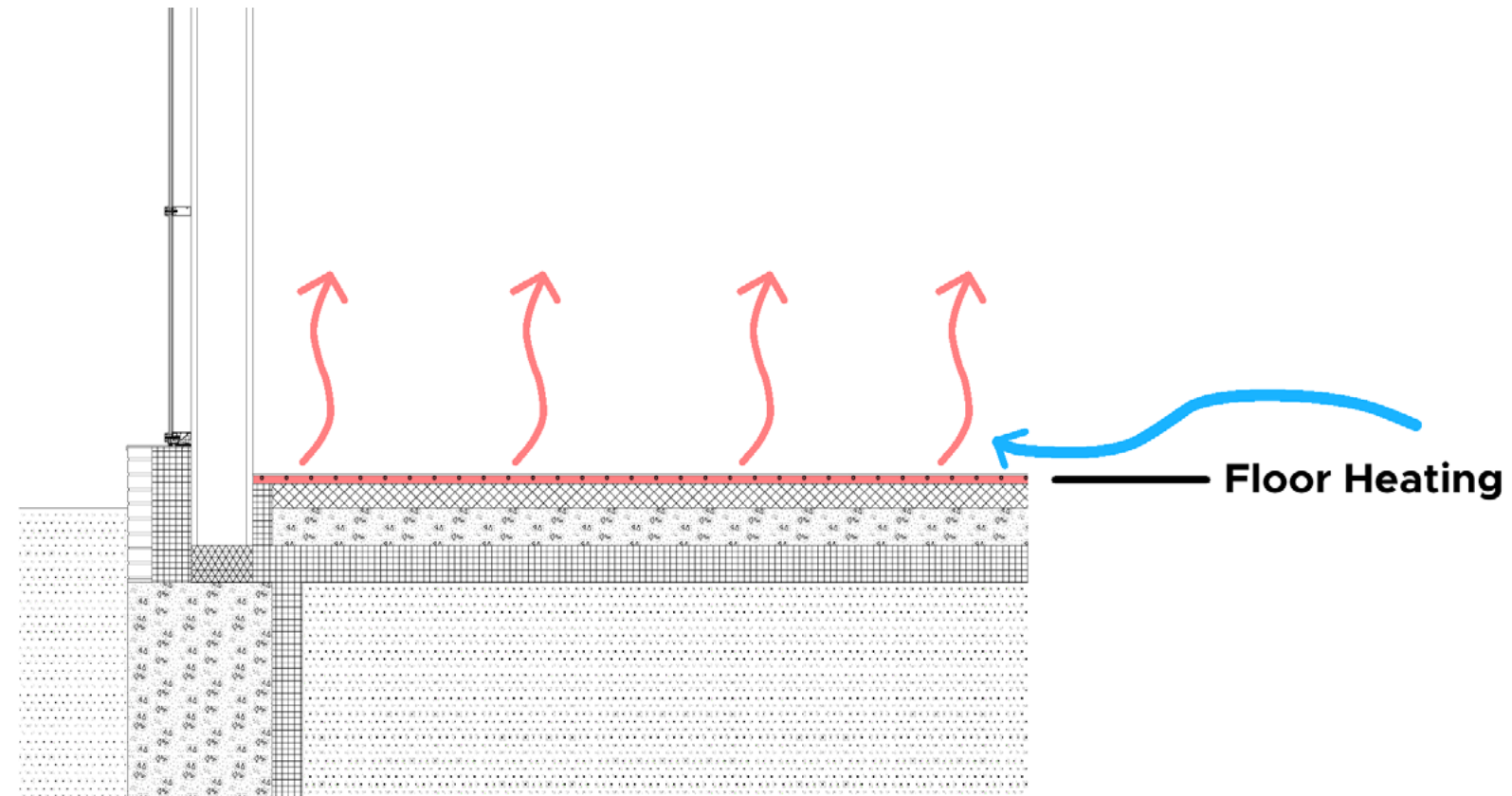


# H/C Control: Summer





# H/C Control: Winter



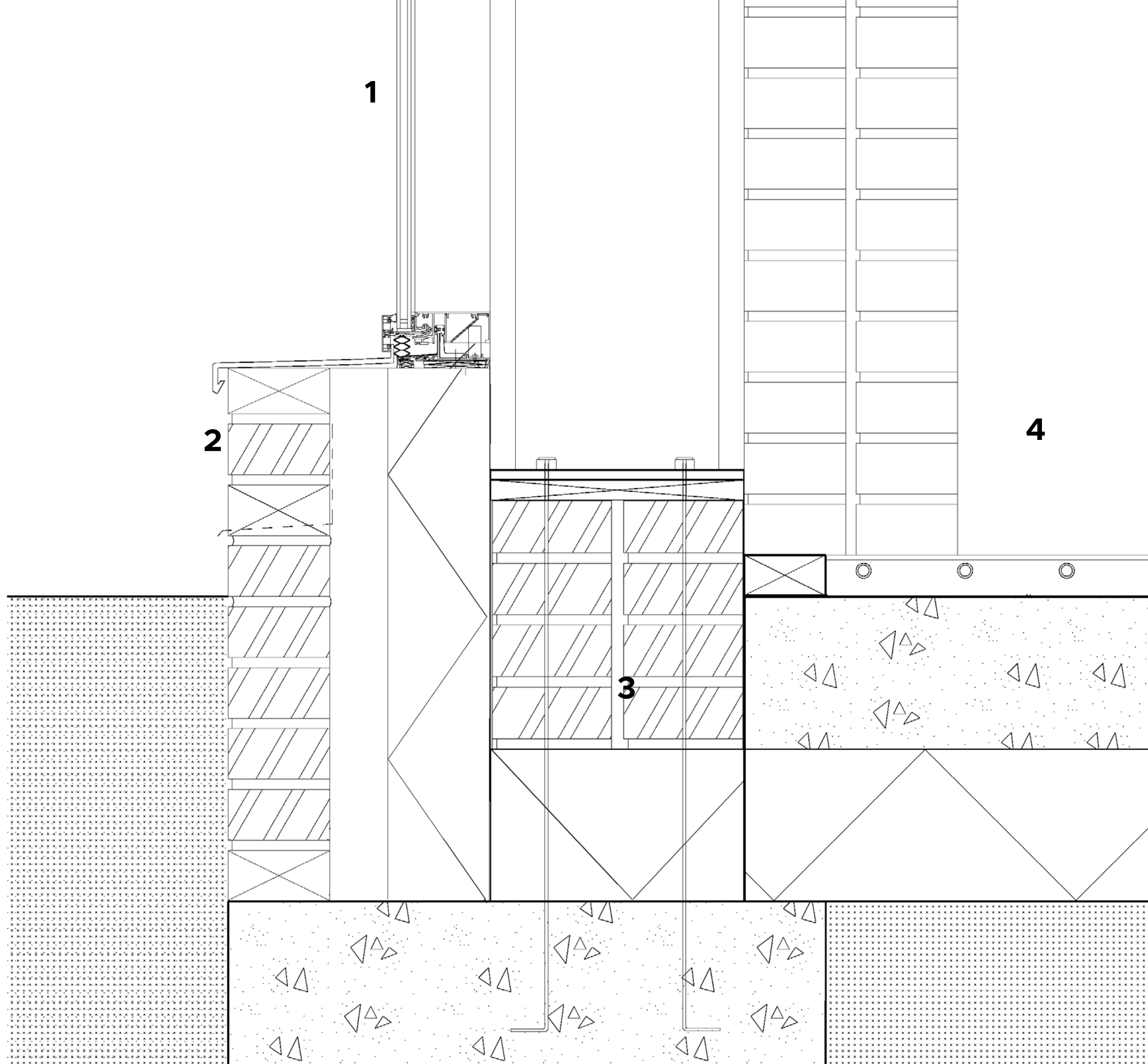
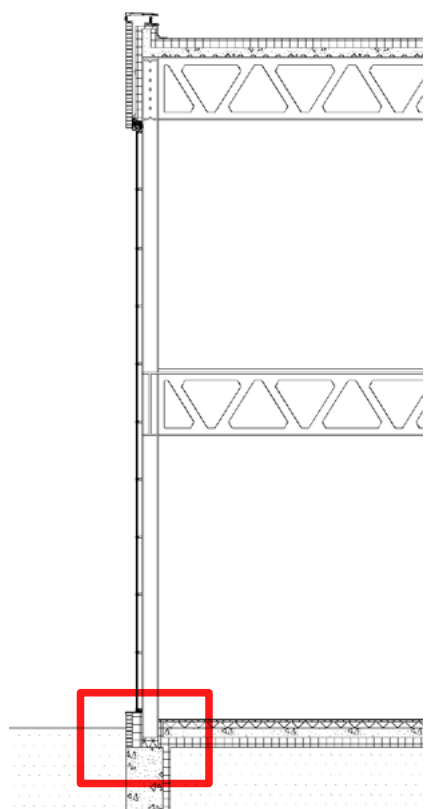


# DETAILS



# 1:5 Detail - Foundation

- 1 curtain wall exterior cap 15mm  
double-glazed glass 26mm  
aluminium frame 80mm  
steel stud 50mm
- 2 brick masonry 100mm  
rigid insulation 150mm  
steel column 250mm  
weep holes
- 3 steel column base plate  
grout 25mm  
base masonry + anchor bolts  
fibreglass insulation block 150mm  
concrete foundation
- 4 floor finish 5mm  
screed 20mm  
floor heating system; pipes d=10mm  
concrete slab 150mm  
rigid insulation 150mm



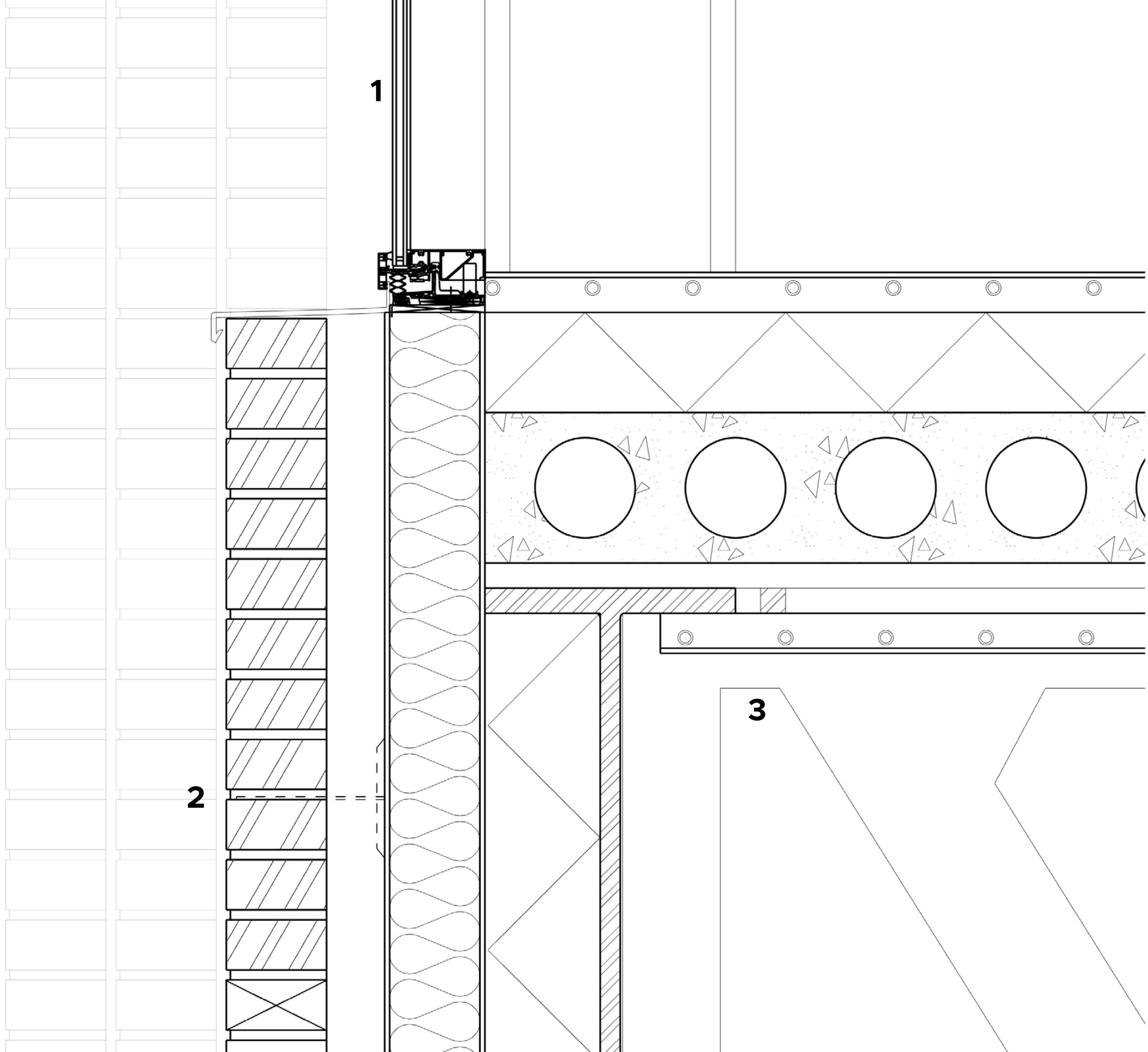
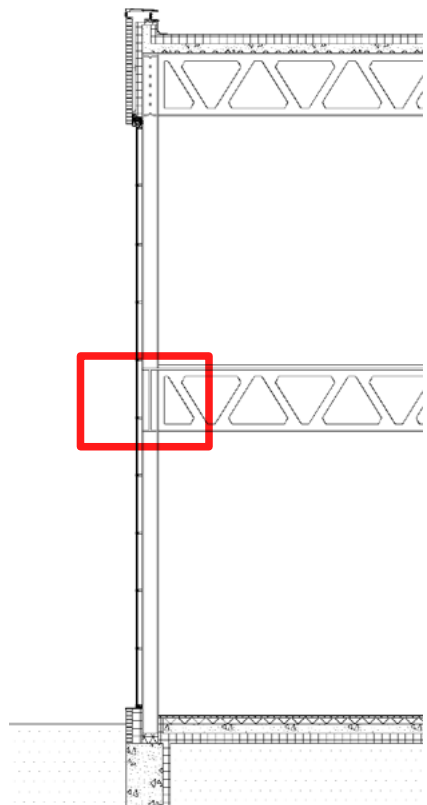
# 1:5 Detail - Ceiling/Floor Slab

- 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

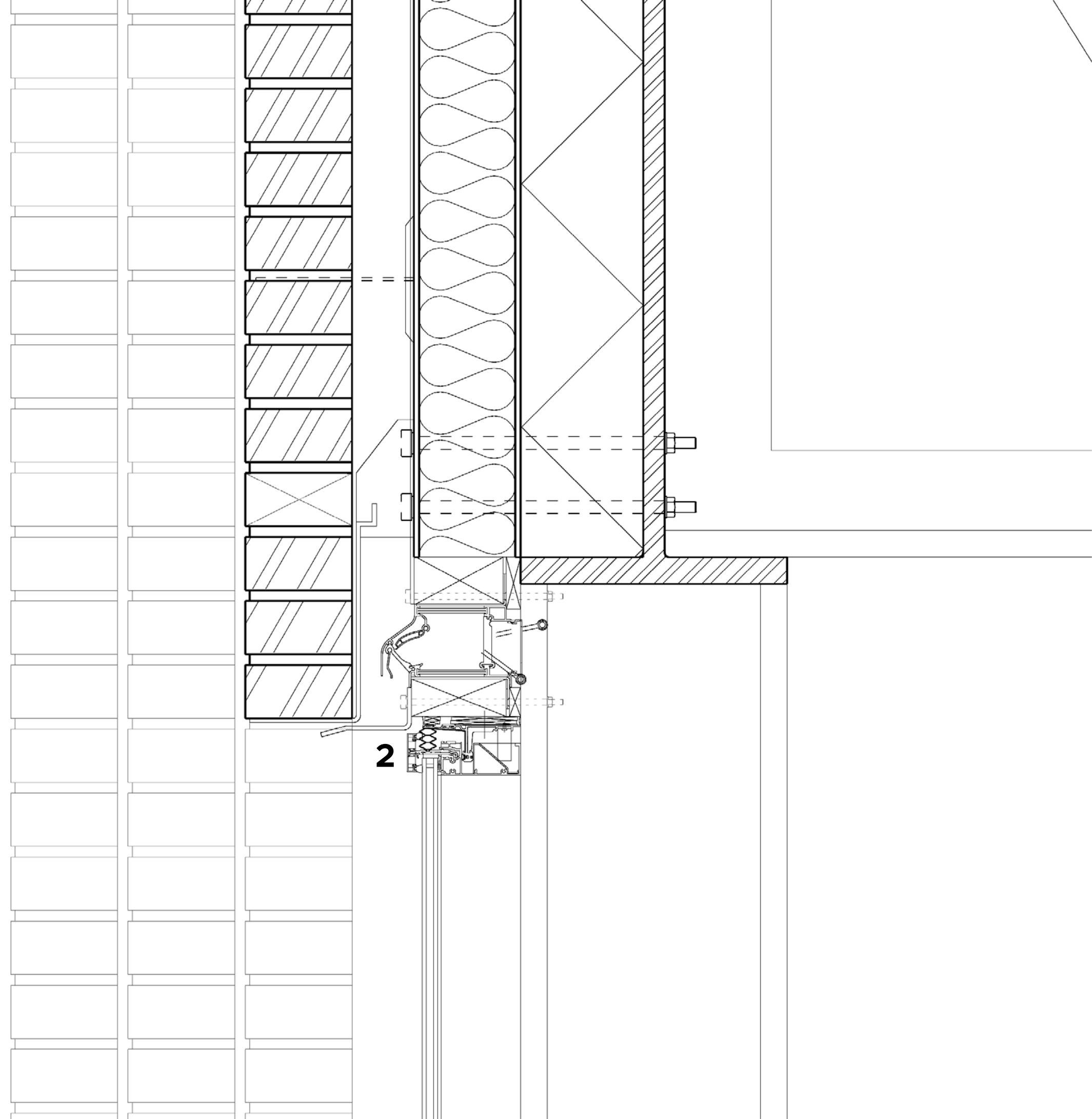
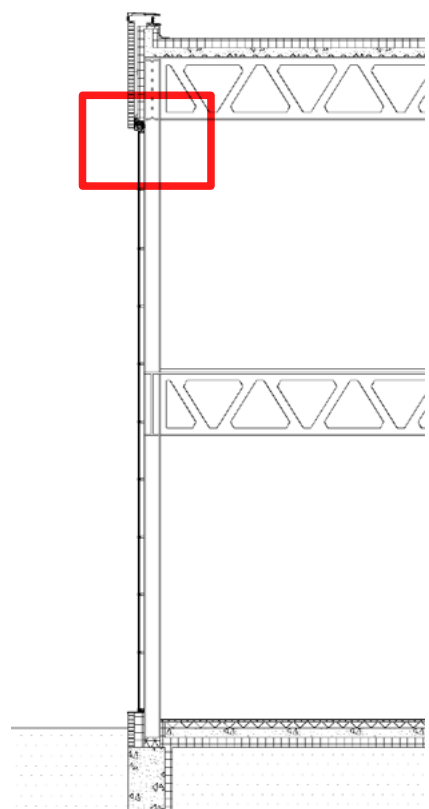
ceiling cooling panel  
cooling pipes d=10mm  
steel frame 25mm  
(attached to structural beam + ceiling)  
hollow core concrete slab 150mm  
rigid insulation 100mm  
floor heating pipes d=10mm  
screed 200mm  
floor finish





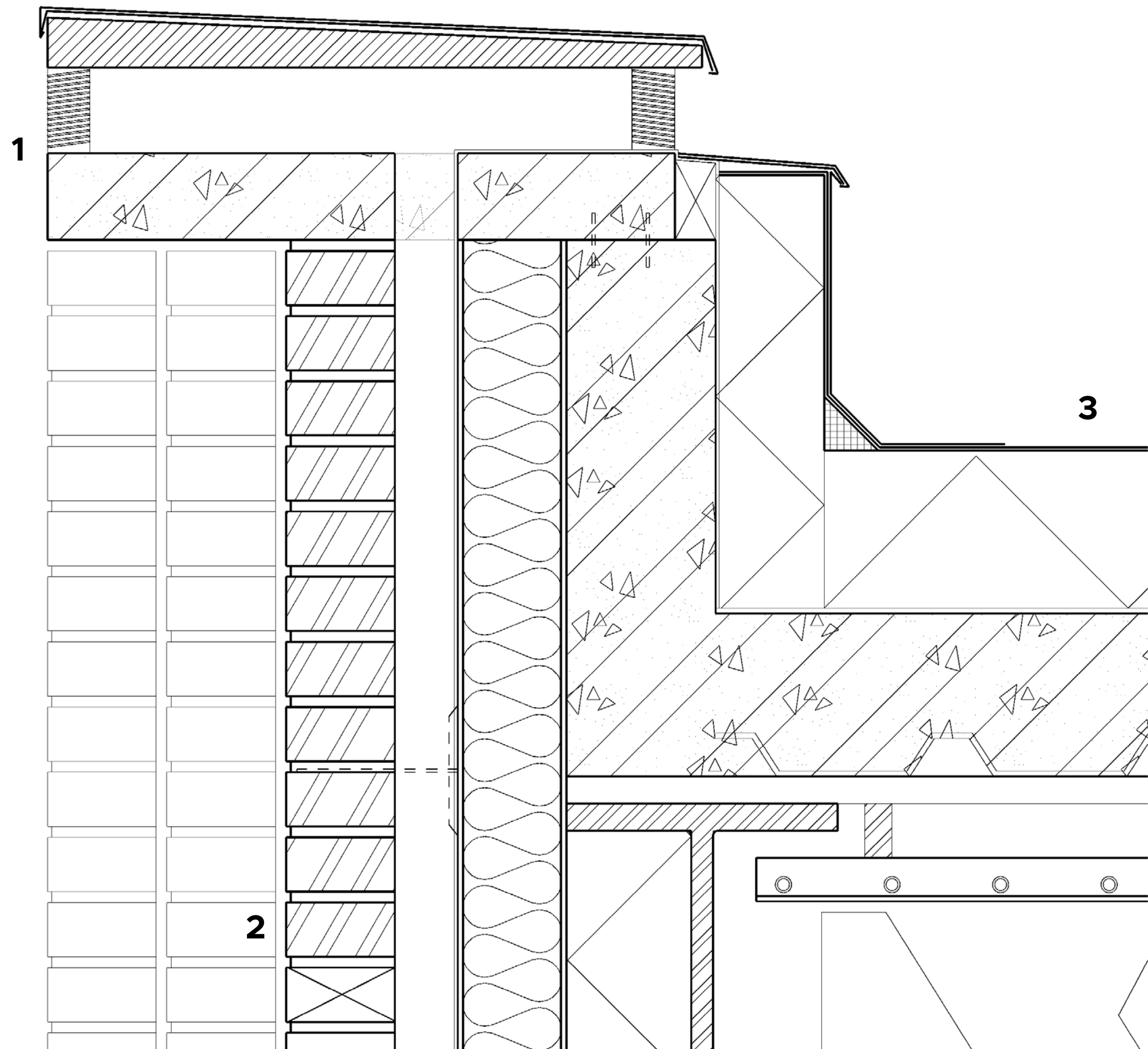
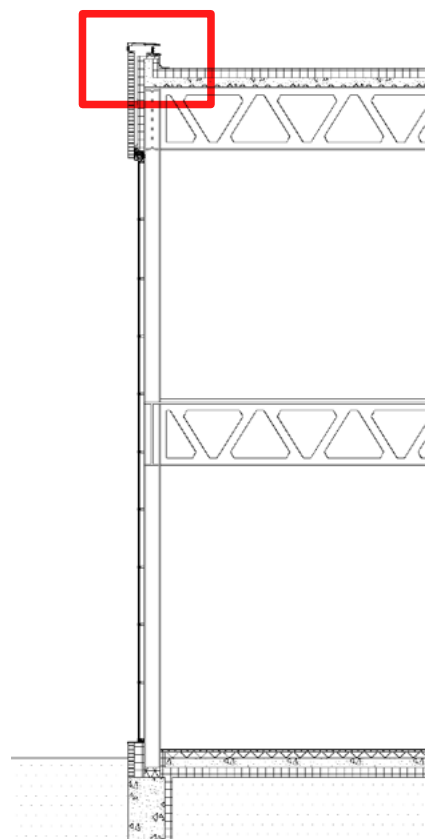
# 1:5 Detail - Opening

- 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 - Roof + Venturi Chimney

- 1 rainwater flashing  
air ventilation fins  
prefab reinforced concrete base  
(paint treated - white)
- 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

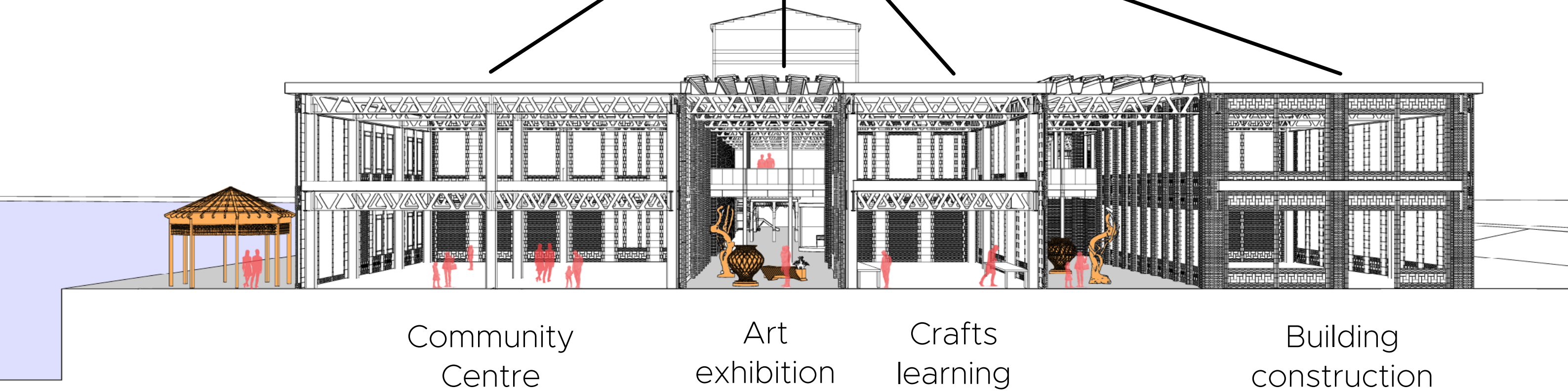




**CONCLUSION:**  
**the CRAFT Museum**

Museum as Public Space of...

Artisanal  
craft industry



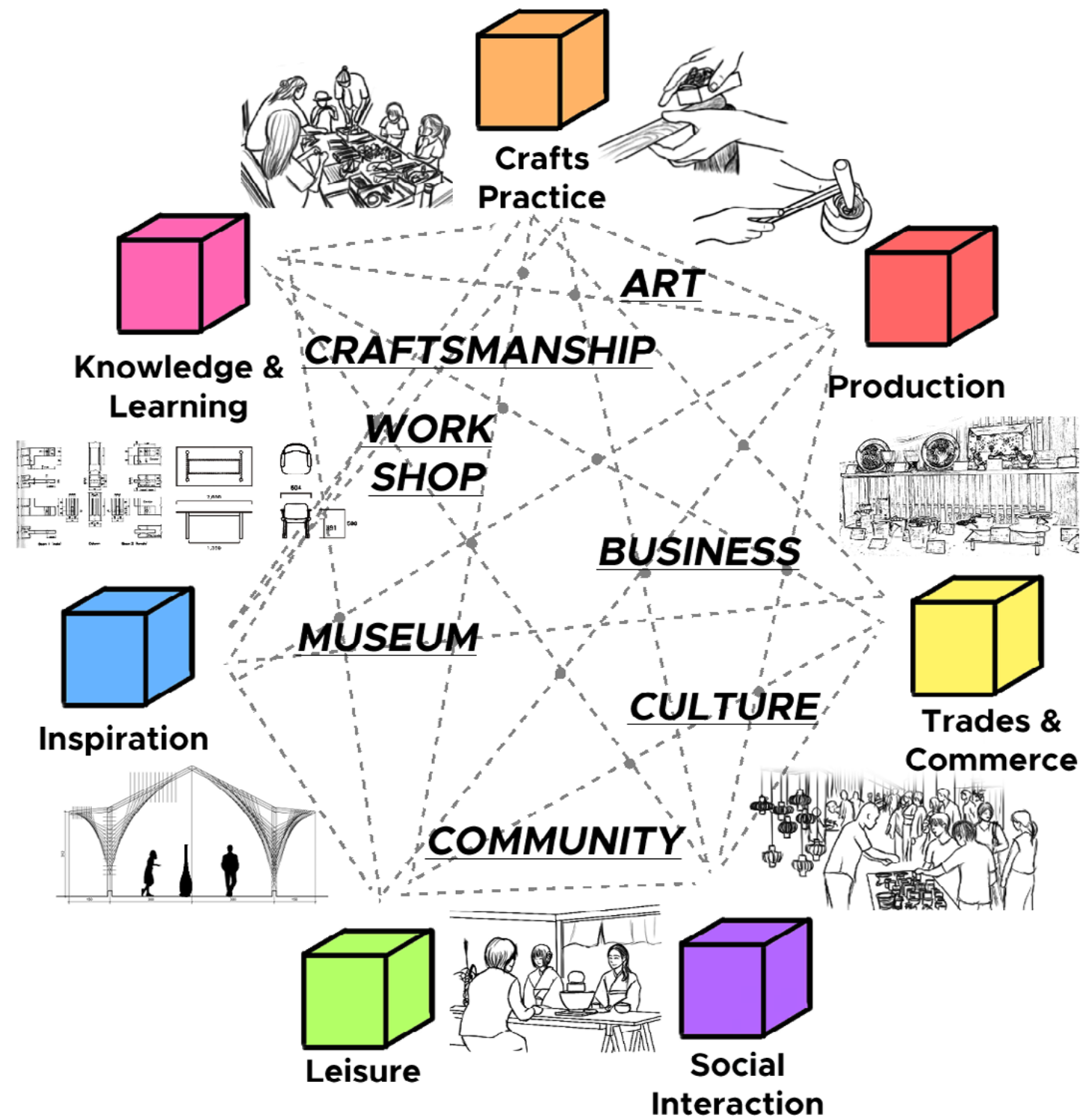
Community  
Centre

Art  
exhibition

Crafts  
learning

Building  
construction









**Entrance from west park**





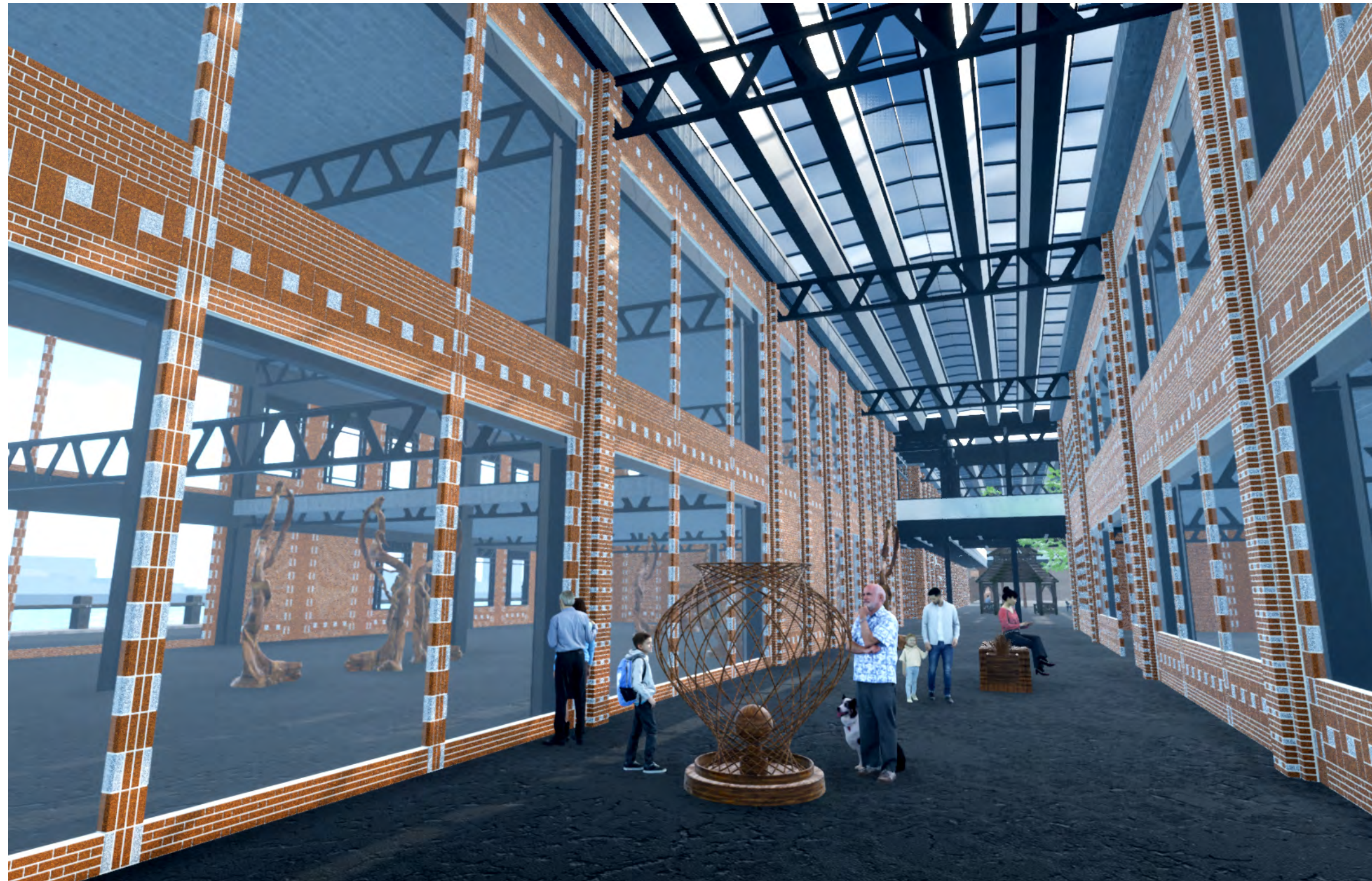
**In-between space exhibition (1)**





**Courtyard**





**In-between space exhibition (2)**





**In-between space exhibition (3)**





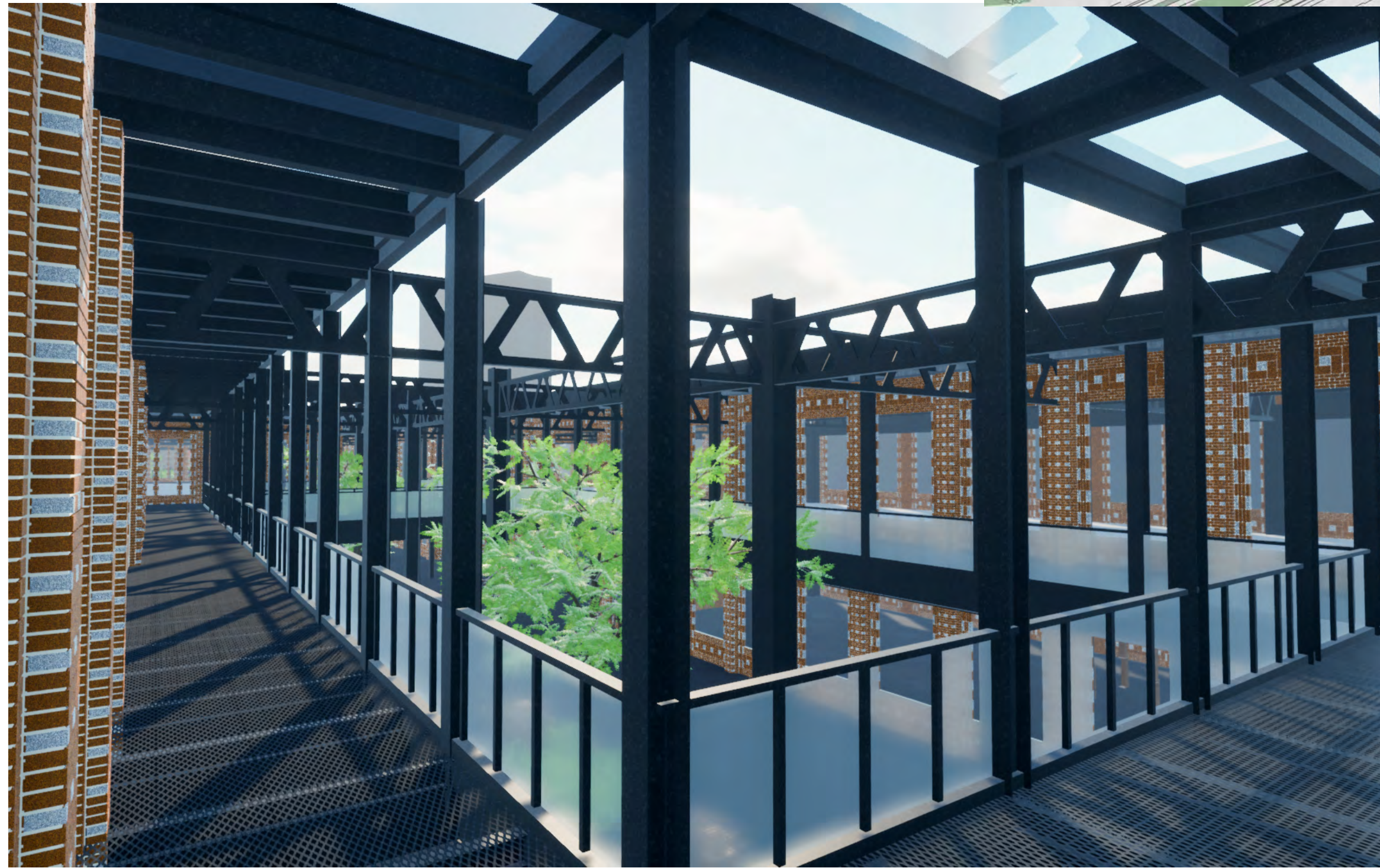
**Interior space (cafe)**





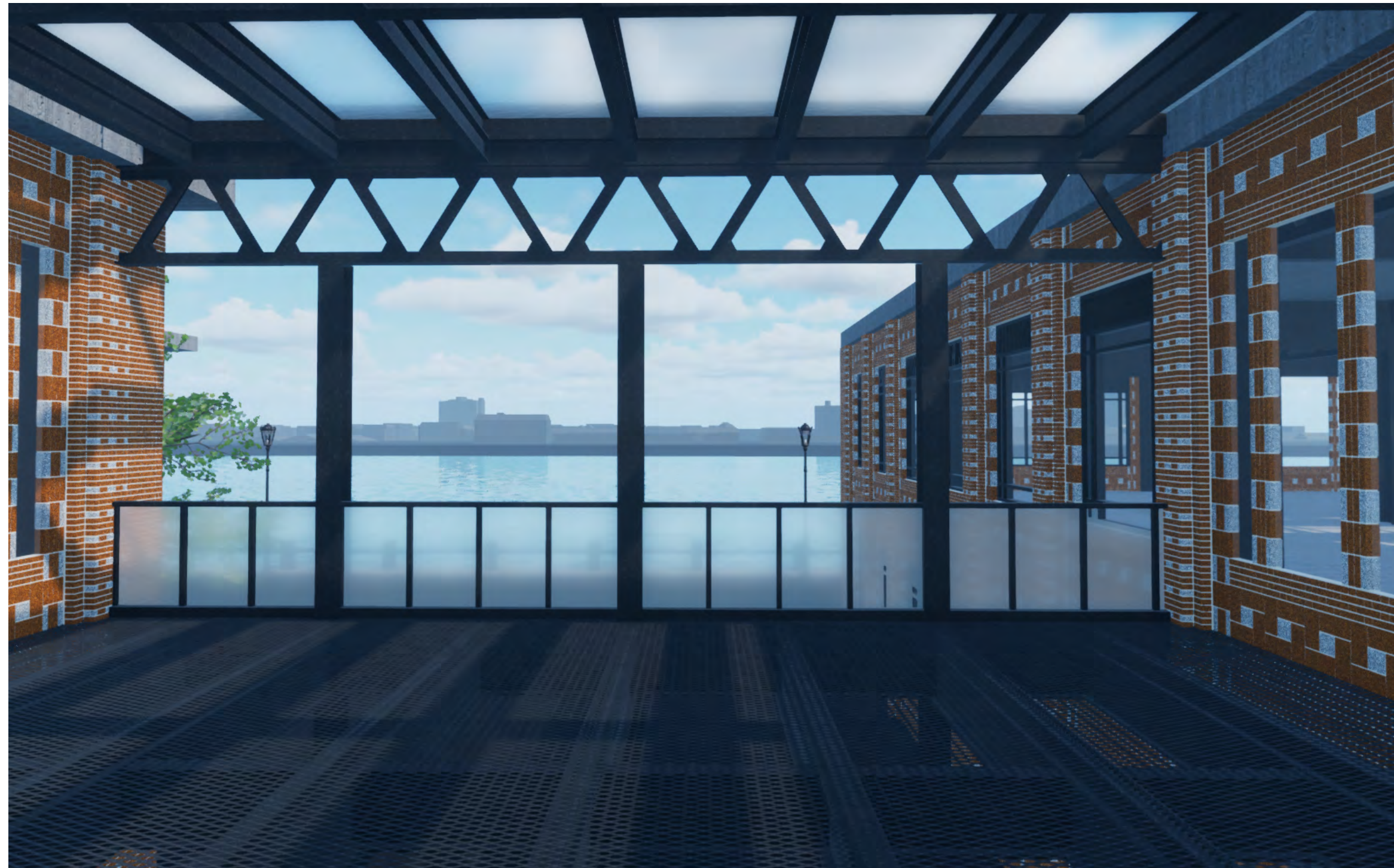
**Interior space (workshop)**





**1F Connecting Bridge**





**1F Viewing Deck**



# CRAFT Museum Rotterdam-Zuid

**C**ommunity-based **R**elational **A**rt **F**actory **T**arwewijk

