OPEN CONVERSATION

TEXTILEMUSEUM

INDUSTRY TRANFORMATION

WINTERSWIJK



P5 Presentation
Chen Zhu
Heritage & Architecture
03/11/2020

RESEARCH:

Introdction for Winterswijk& Industrial area

STATEMENT:

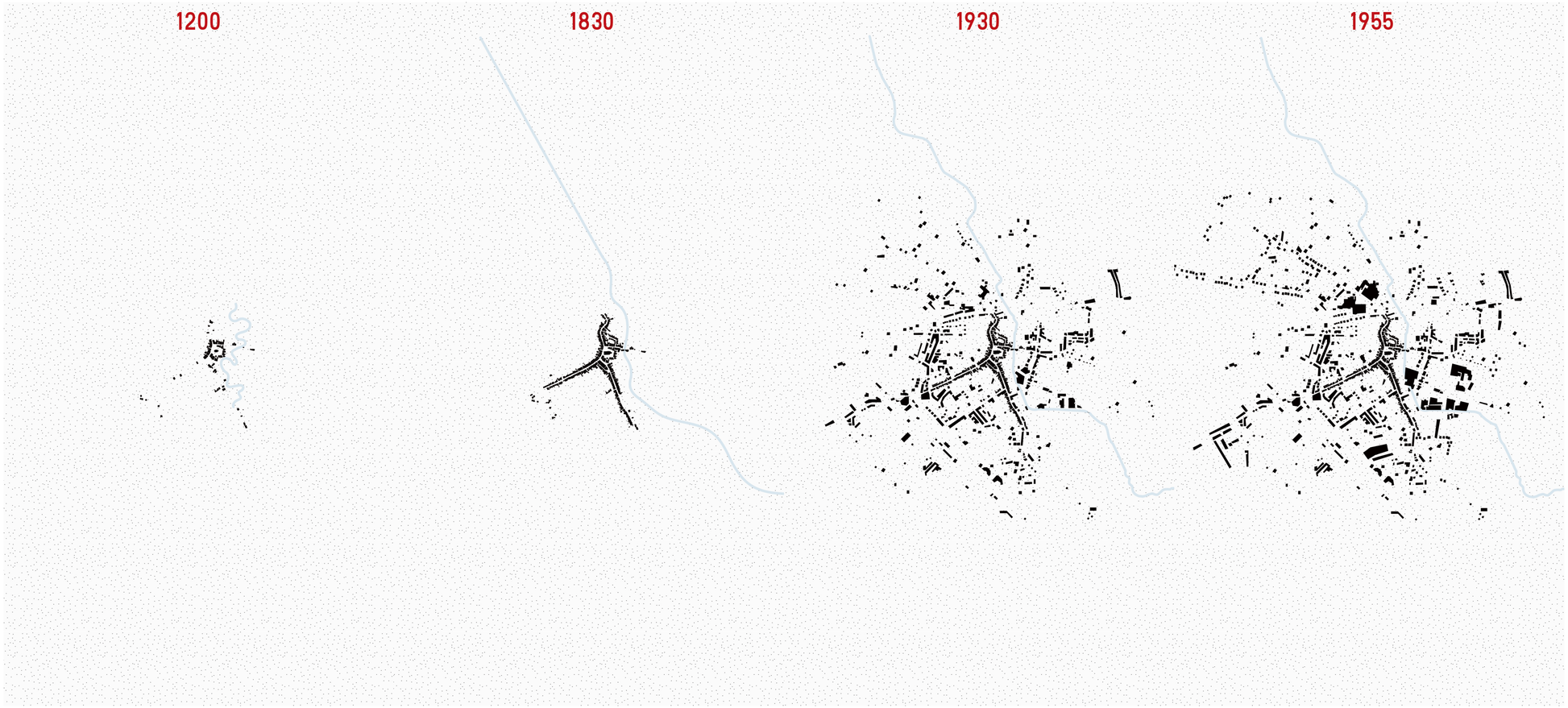
Problem analysis

SOLUTION:

Site design
Museum design
Building technology



winterswijk location



origin

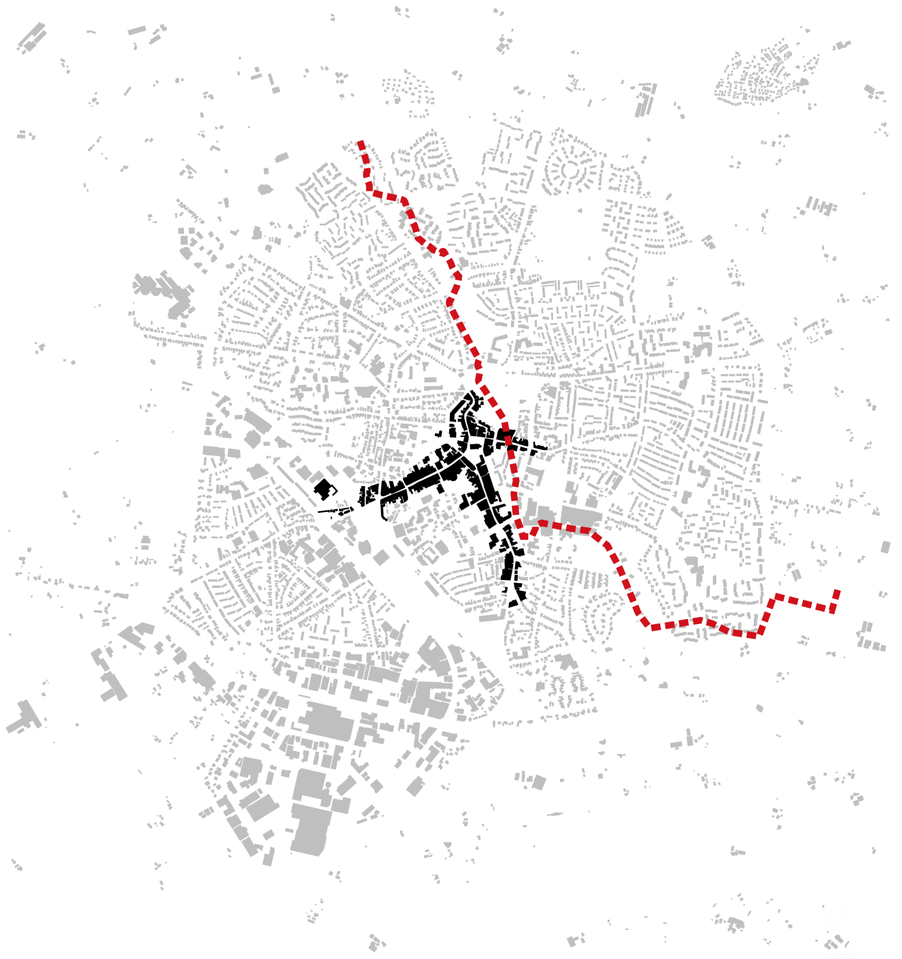
before industrial revolution

post-war

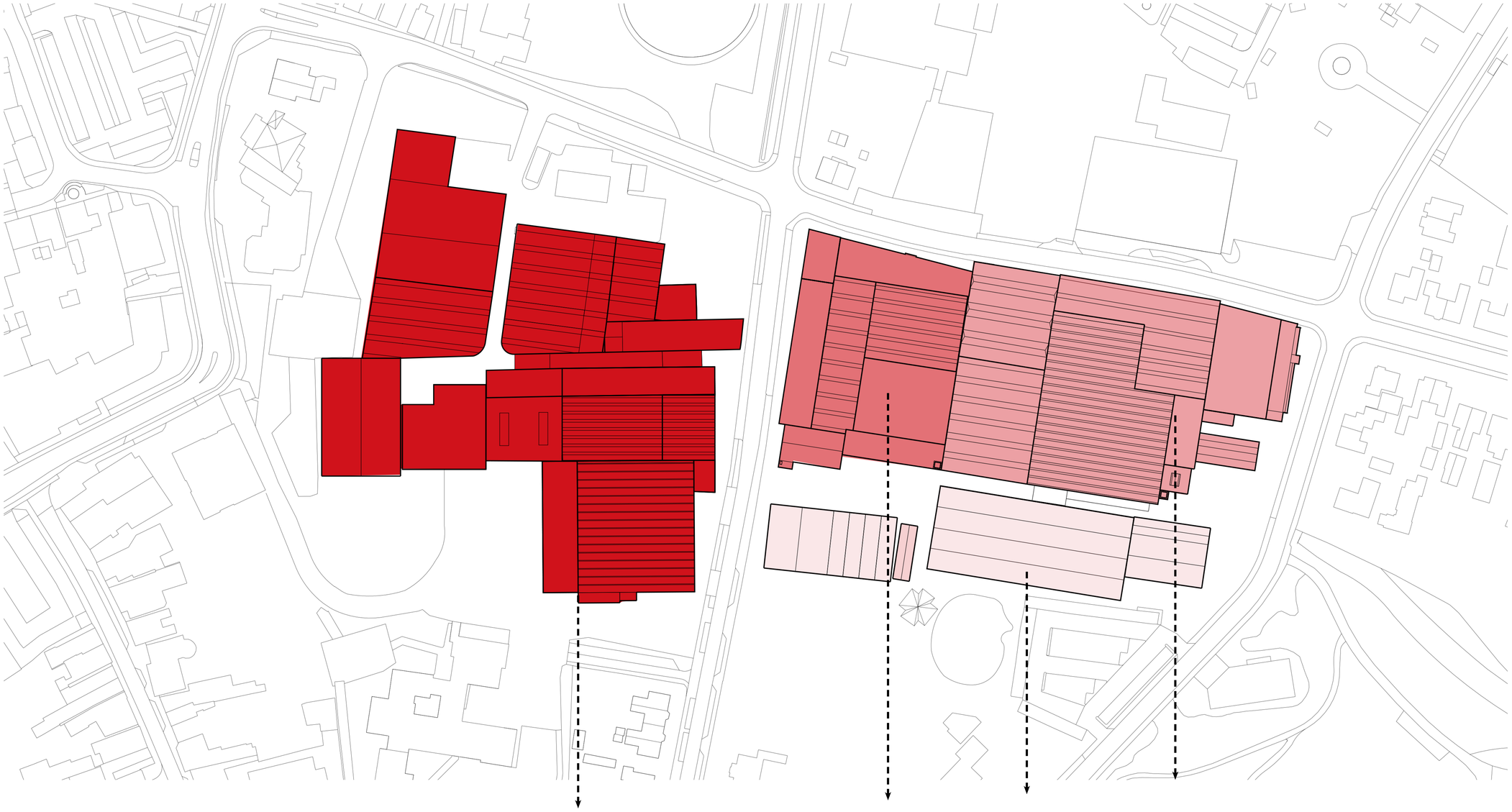
after the second world war



revatilsing 20th century
herritage



city center develped along the whemerbeek

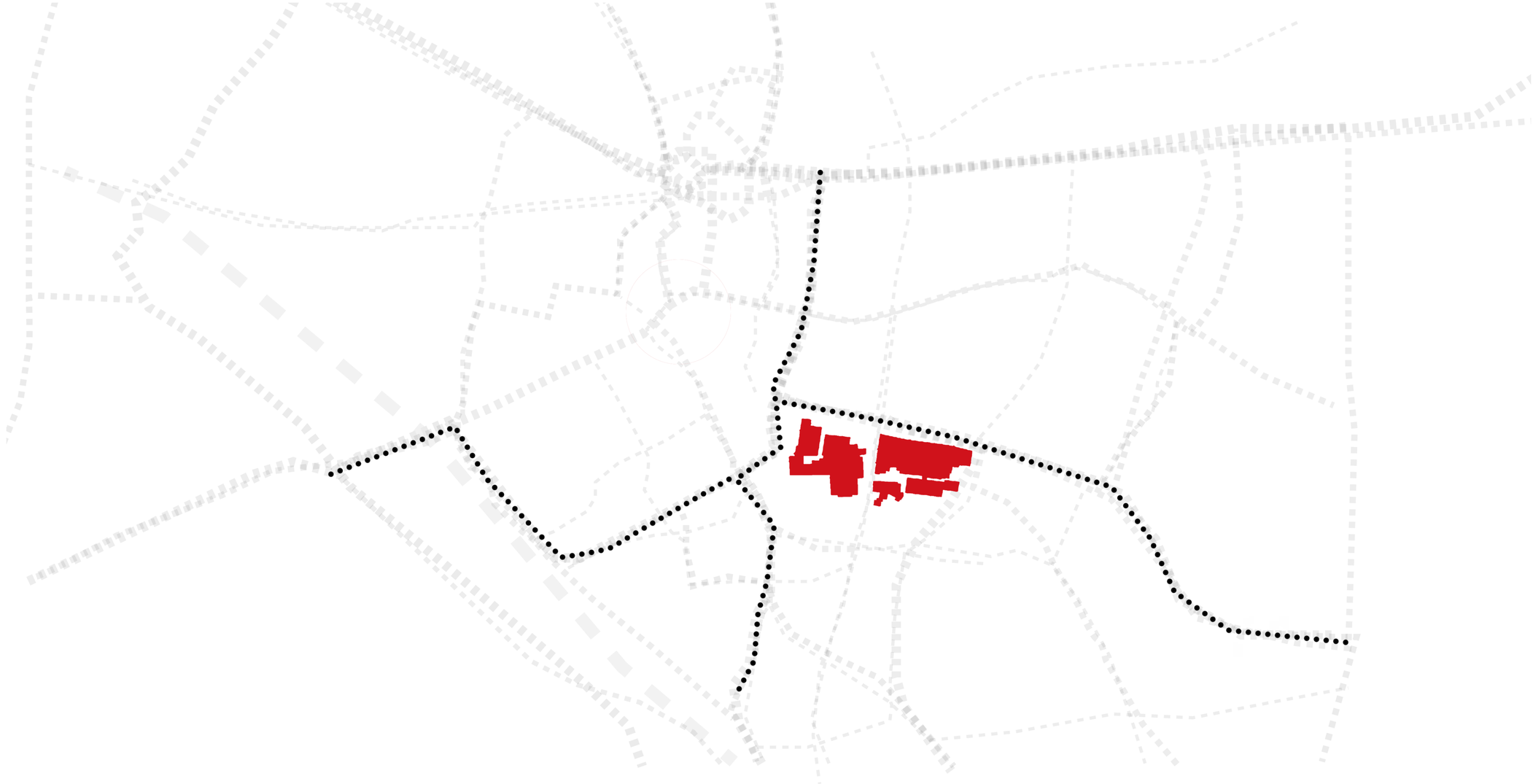


De Morse

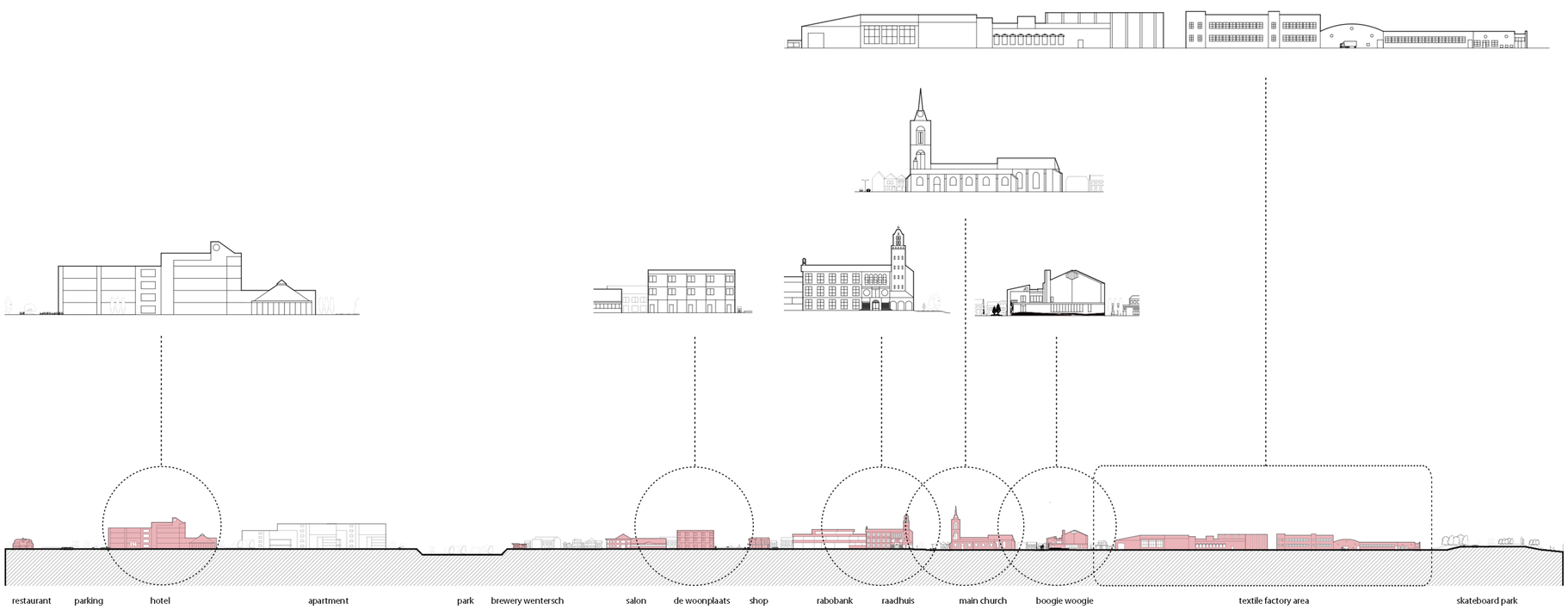
Hazewind

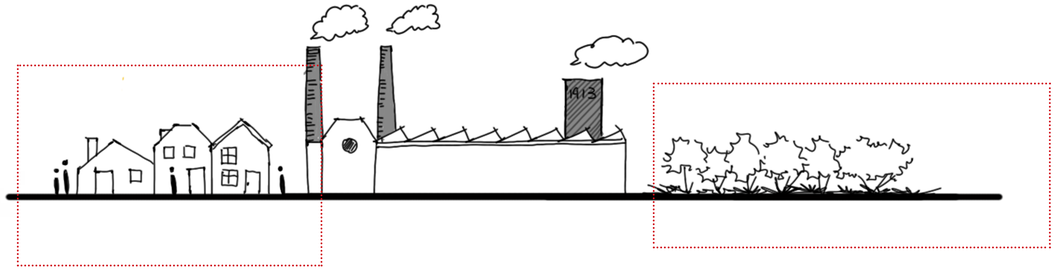
Janfleur

Gaudium

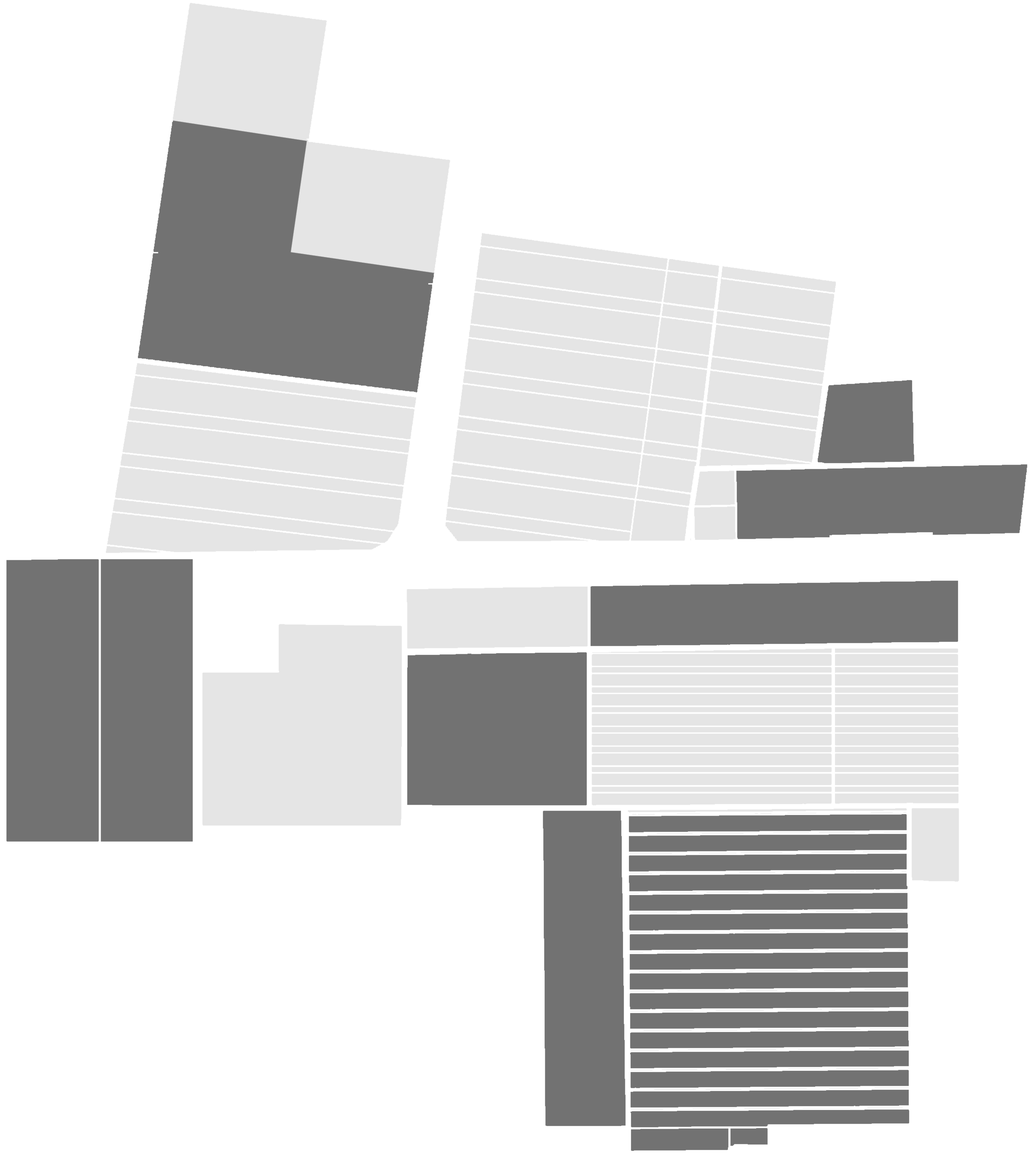


busy road near site





dewelling industry landscape



inactive space



water

tree area

factory

grass area

green in district


WHERE ARE THE PEOPLE?
UNCLEAR BORDER
EMPTYNESS
SKATE PARK
GREEN
FLOWERS
PARKING
DOG
CREEK
RESIDENTIAL
GATE
TRANSITION
HEAVY TRAFFIC
INDIVIDUAL BUILDING
URBAN - STONE - CURVED
BUSY CAR ROAD
PRIVATE
GREEN
WATER
BLOCKED!
FLOWERS
STORAGE
DIRTY
TRUSH
USED DURING 40 HRS A WEEK
WEAVING
PADWEWOLK
TEXTILE
OFFICE
ESPORT
QUIET STREET
PRIVATE
PRIVATE
PRIVATE
CHILD-REN
SCHOOL
EMPTY
GREEN
STORAGE
BOXING
BLOCKED!
DARK
DARK
RESTRUANT ITALIAN
MUSEUM
OPP
? WHERE TO GO
WHITE
BRICKFACADE
GREEN PARKING
TREE
GYM
USED DURING EVENING/WEEKENDS
ESCAPE ROOM
GREEN
FYSIOL
BLOCKED!
OFFICE
TRAFFIC
PATH
CULTURE CENTER
GREEN
CHURCH
BUS STOP
BUS STOP
GREEN
GREEN
PARKIN
PRIVATE
TRANSITION VILLAGE
GATE

RESEARCH:

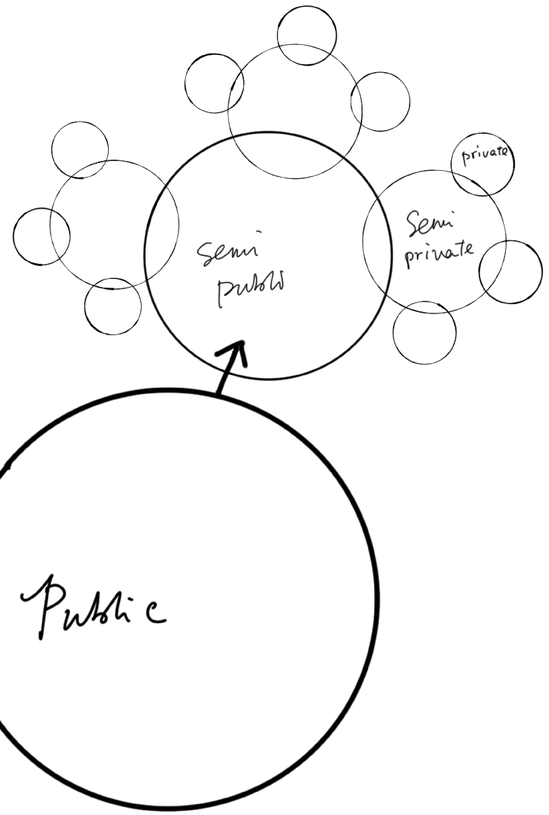
Introdction for Winterswijk& Industrial area

STATEMENT:

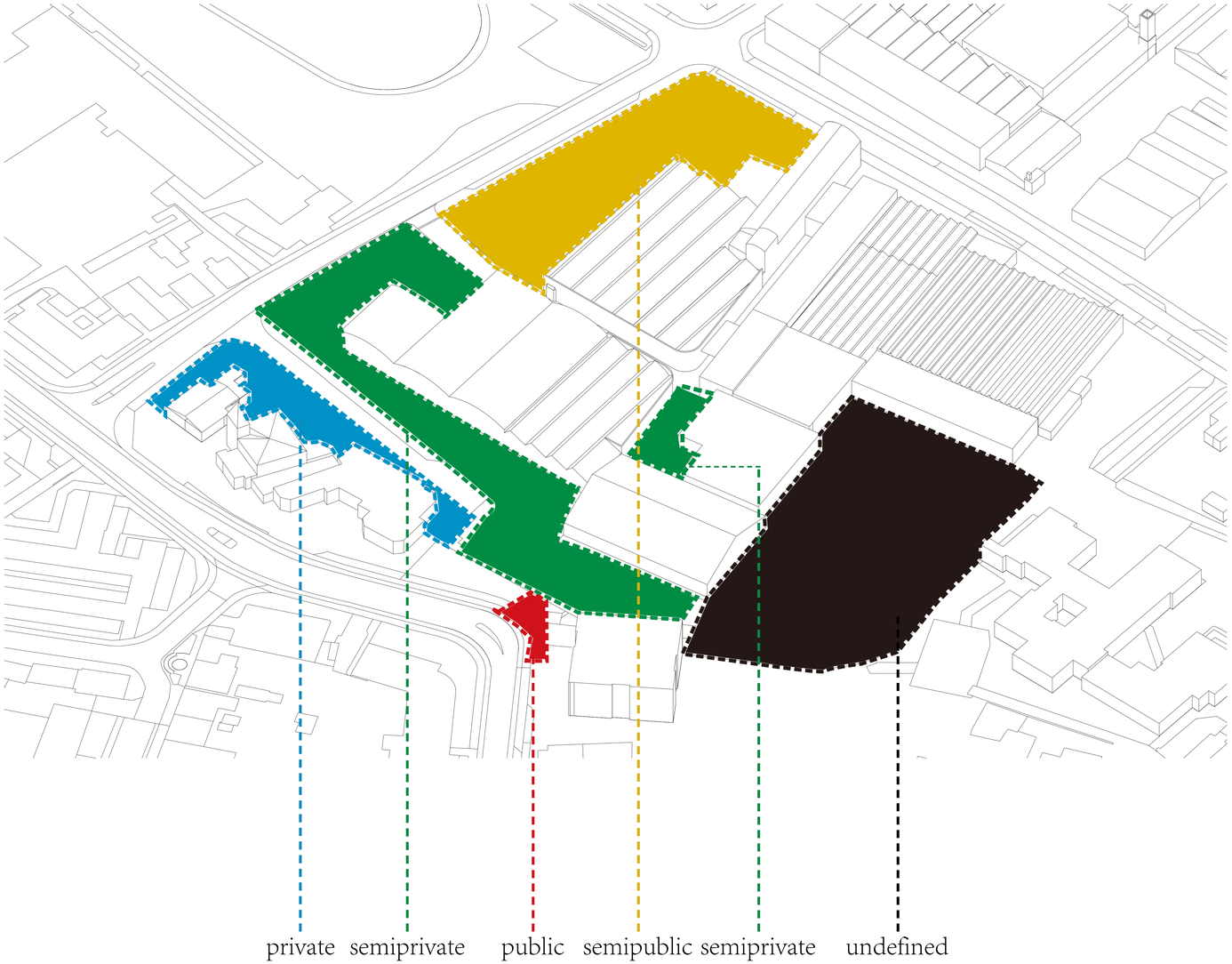
Problem analysis

SOLUTION:

Site design
Museum design
Building technology



public private

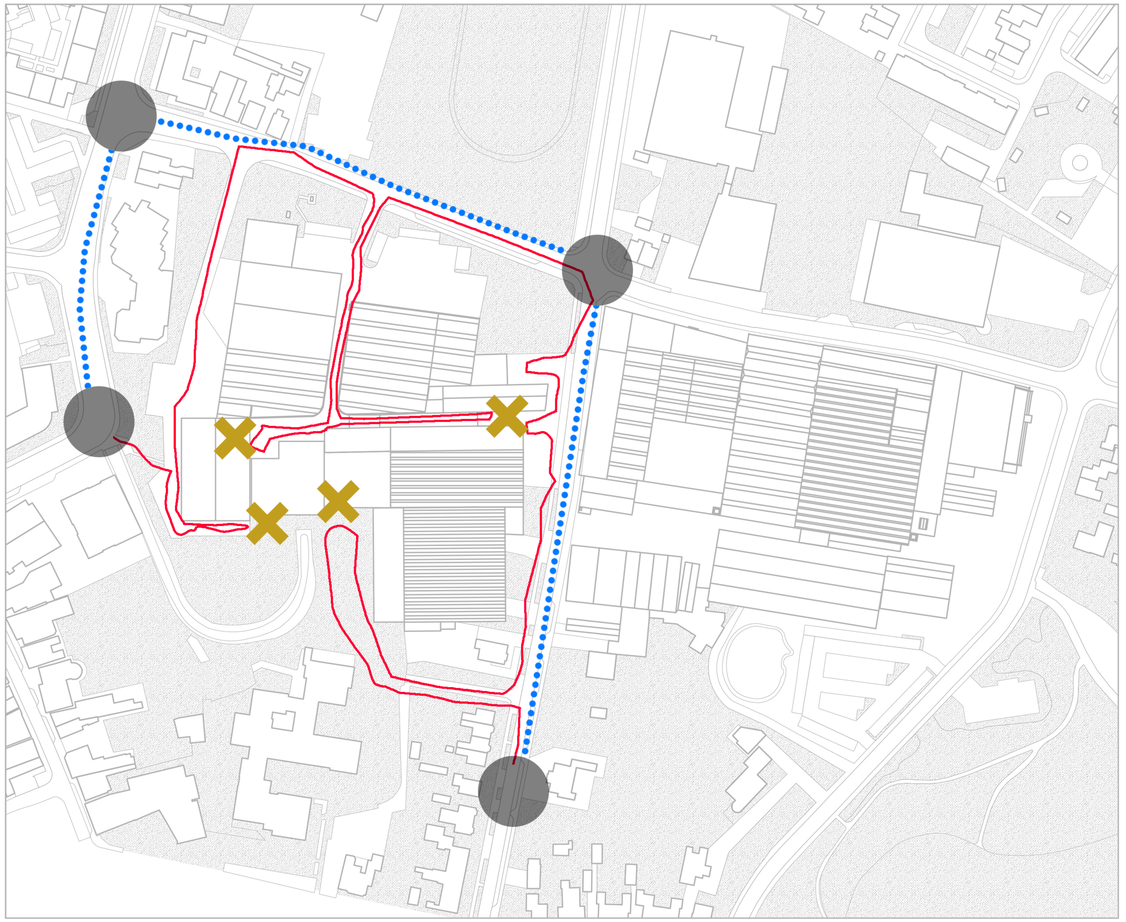


negative public-private sequence





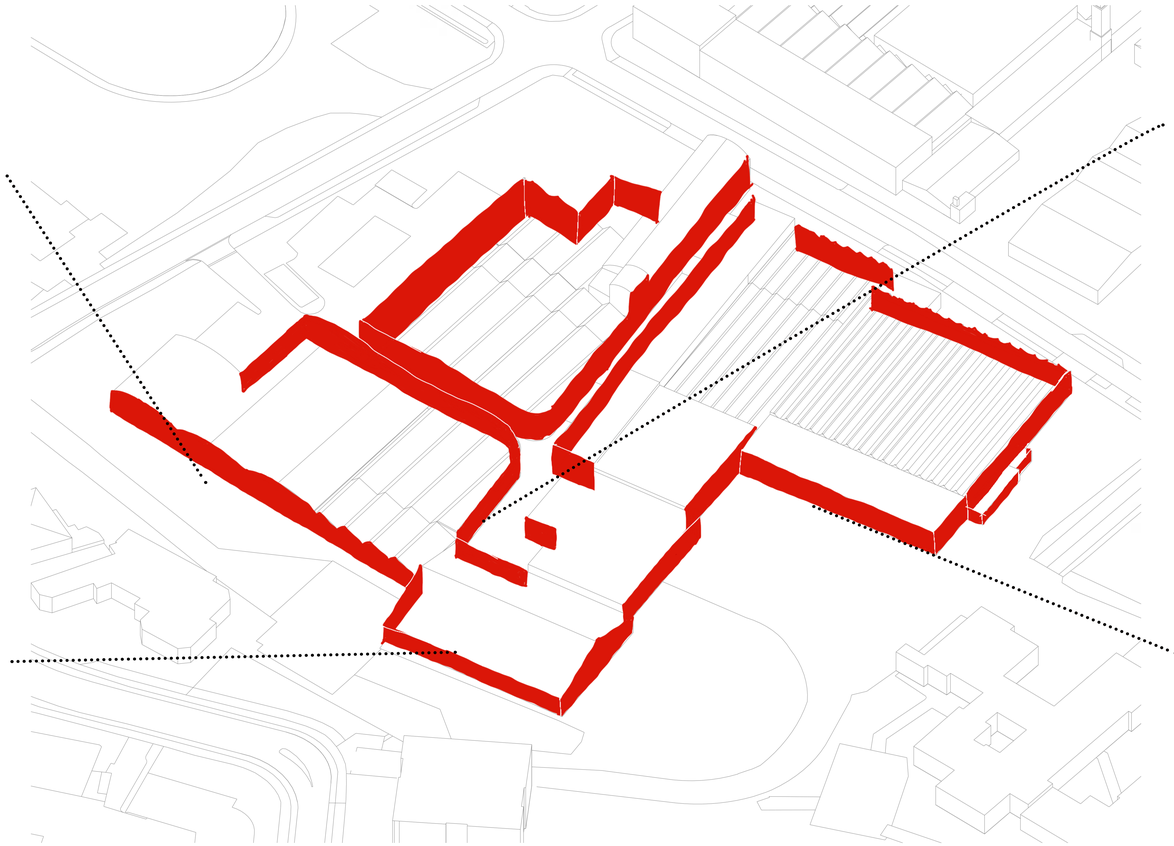

vacancy



routing connections







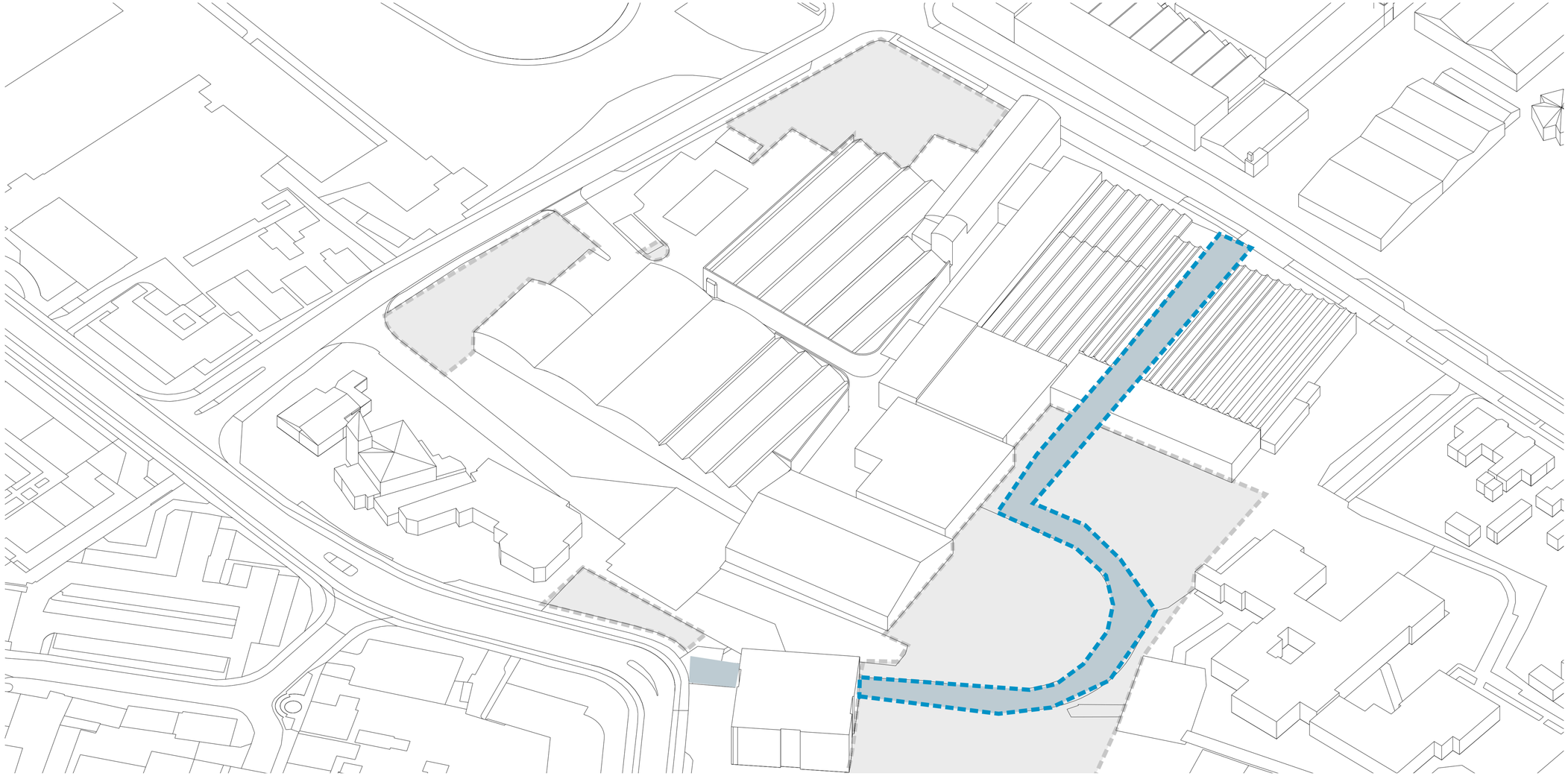




closed facade



negative green utilize

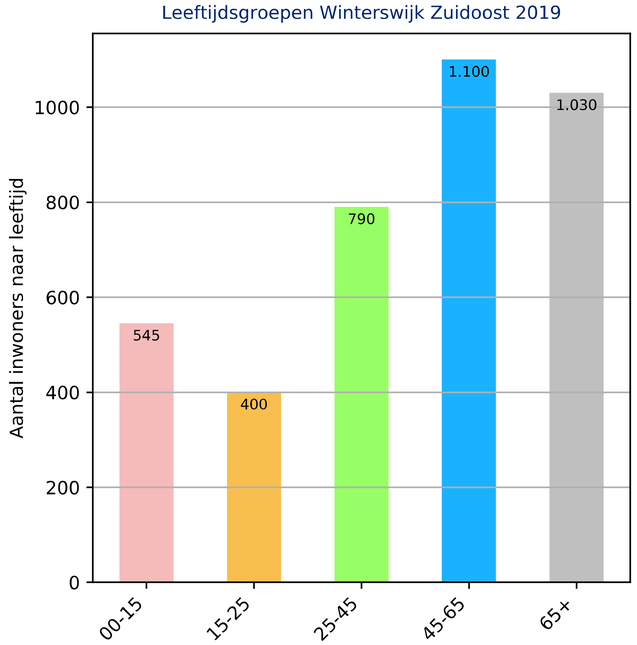


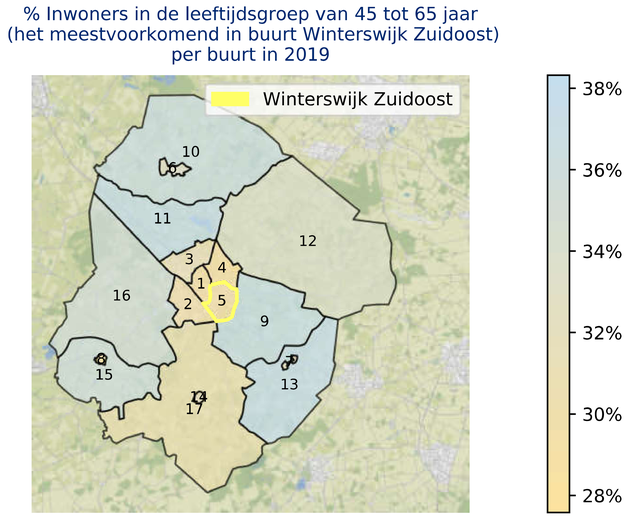
Whemerbeek deserted

Buurt Winterswijk Zuidoost

Aantal inwoners Winterswijk Zuidoost.

Aantal inwoners per leeftijdsgroep en de meestvoorkomende leeftijdsgroep op de kaart.







RESEARCH:

Introdction for Winterswijk& Industrial area

STATEMENT:

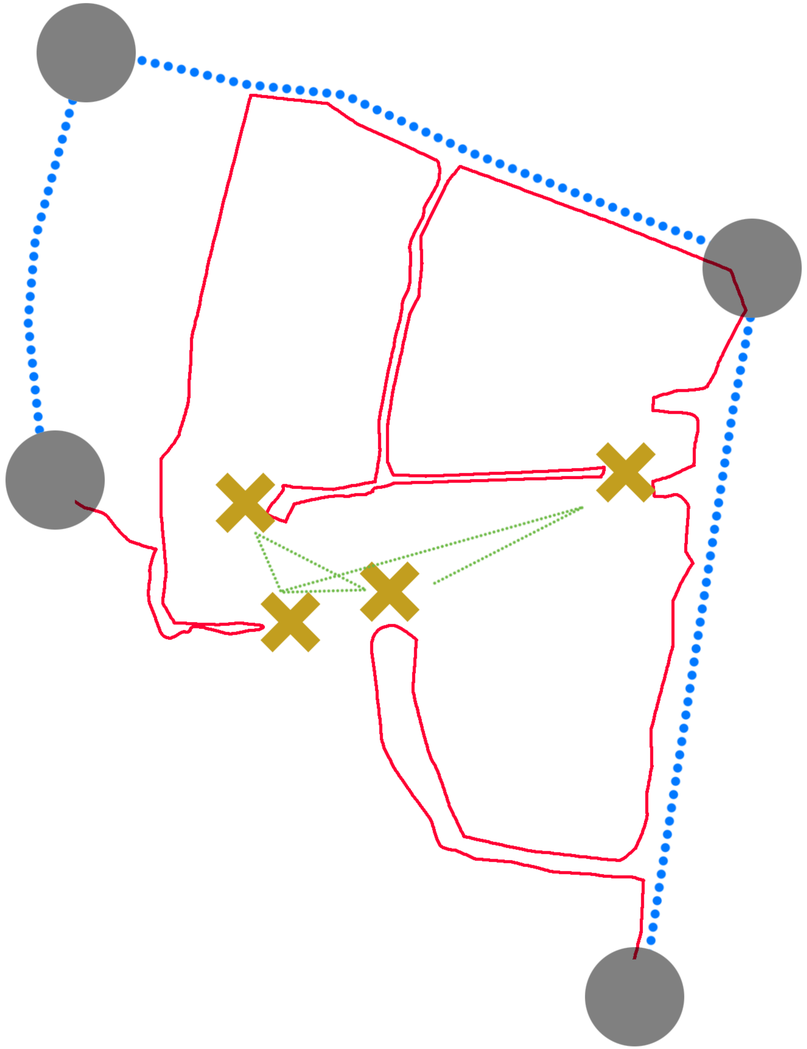
Problem analysis

SOLUTION:

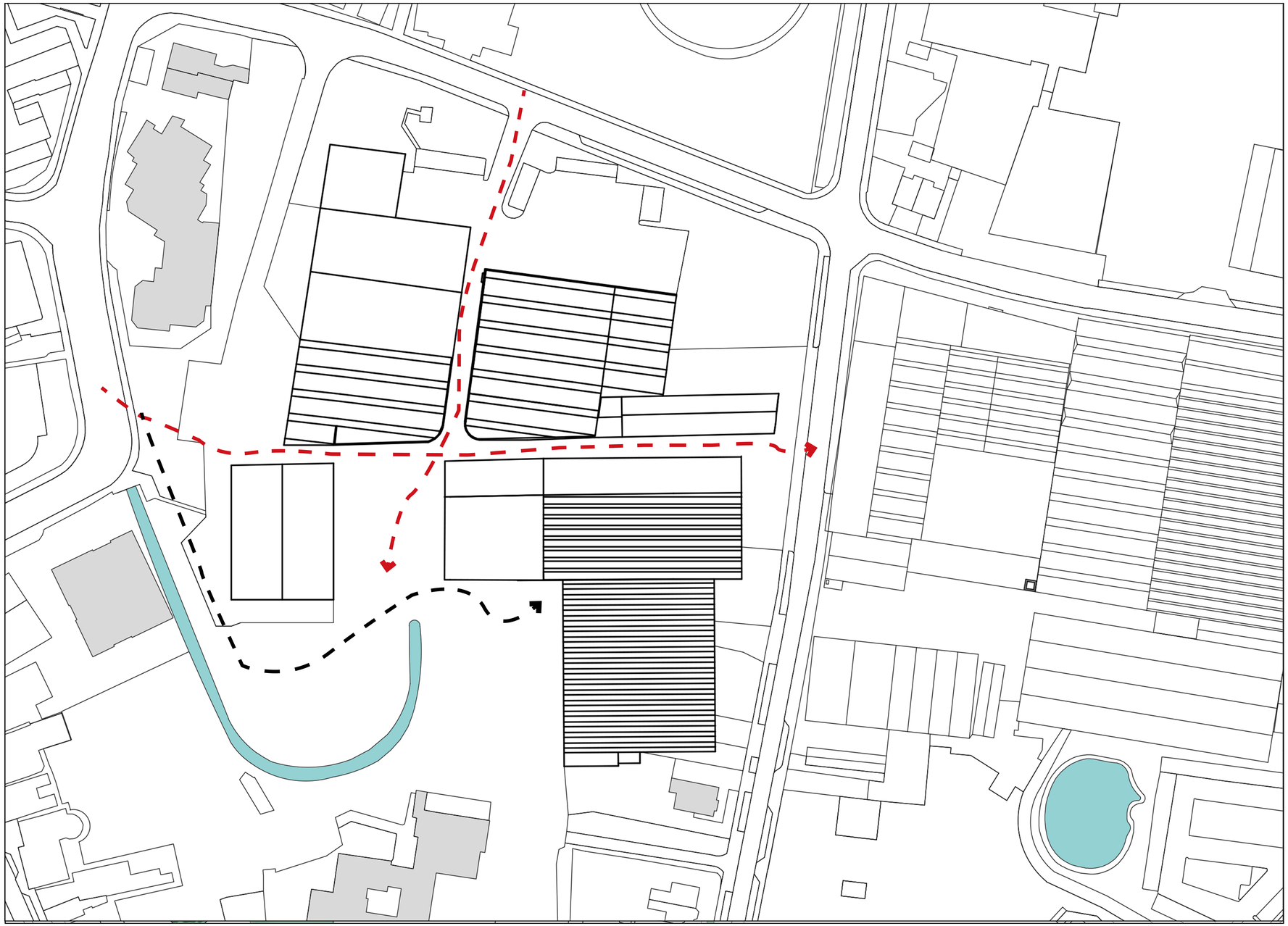
Site design
Museum design
Building technology



value evaluation in site

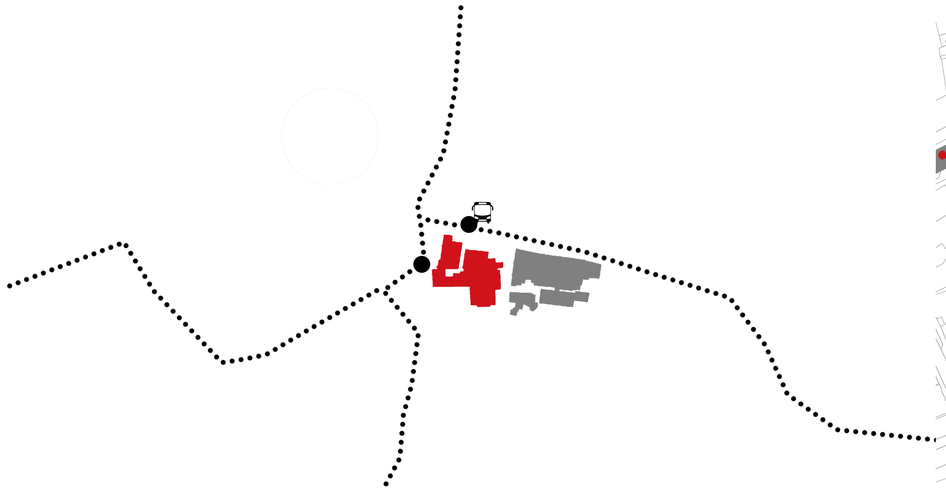


routing suggestion

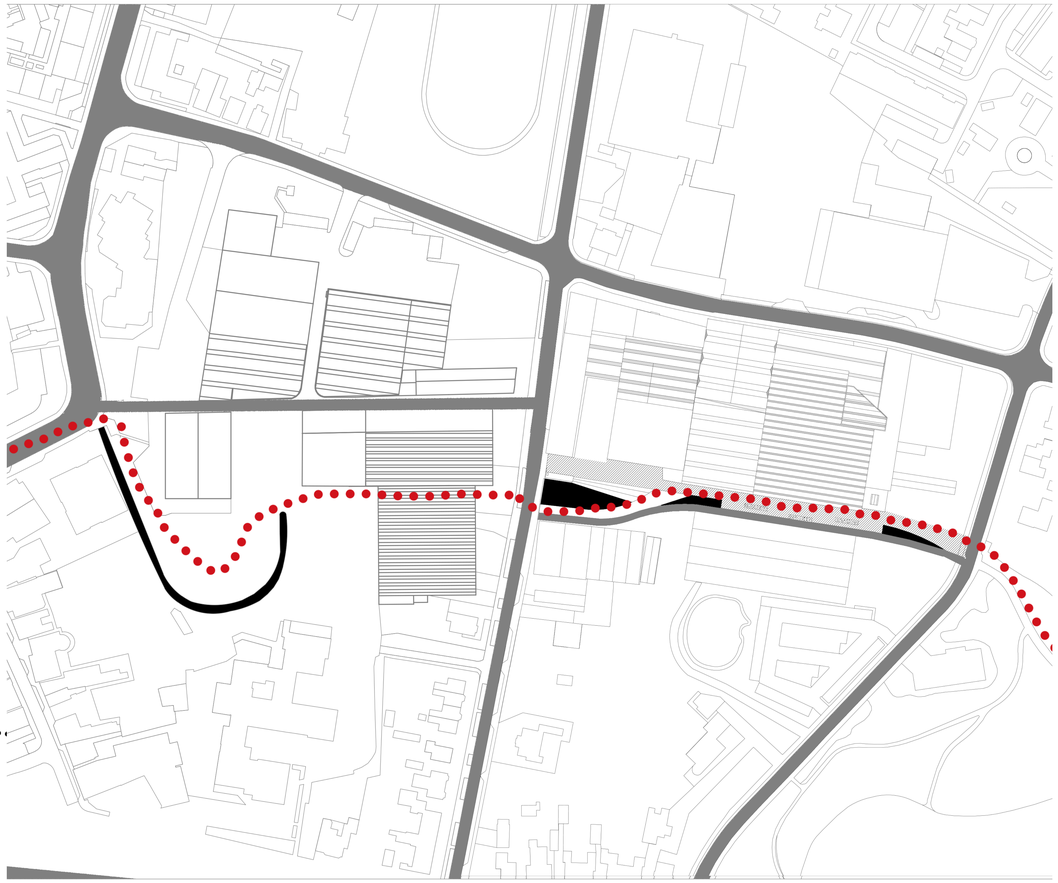


25m 50m

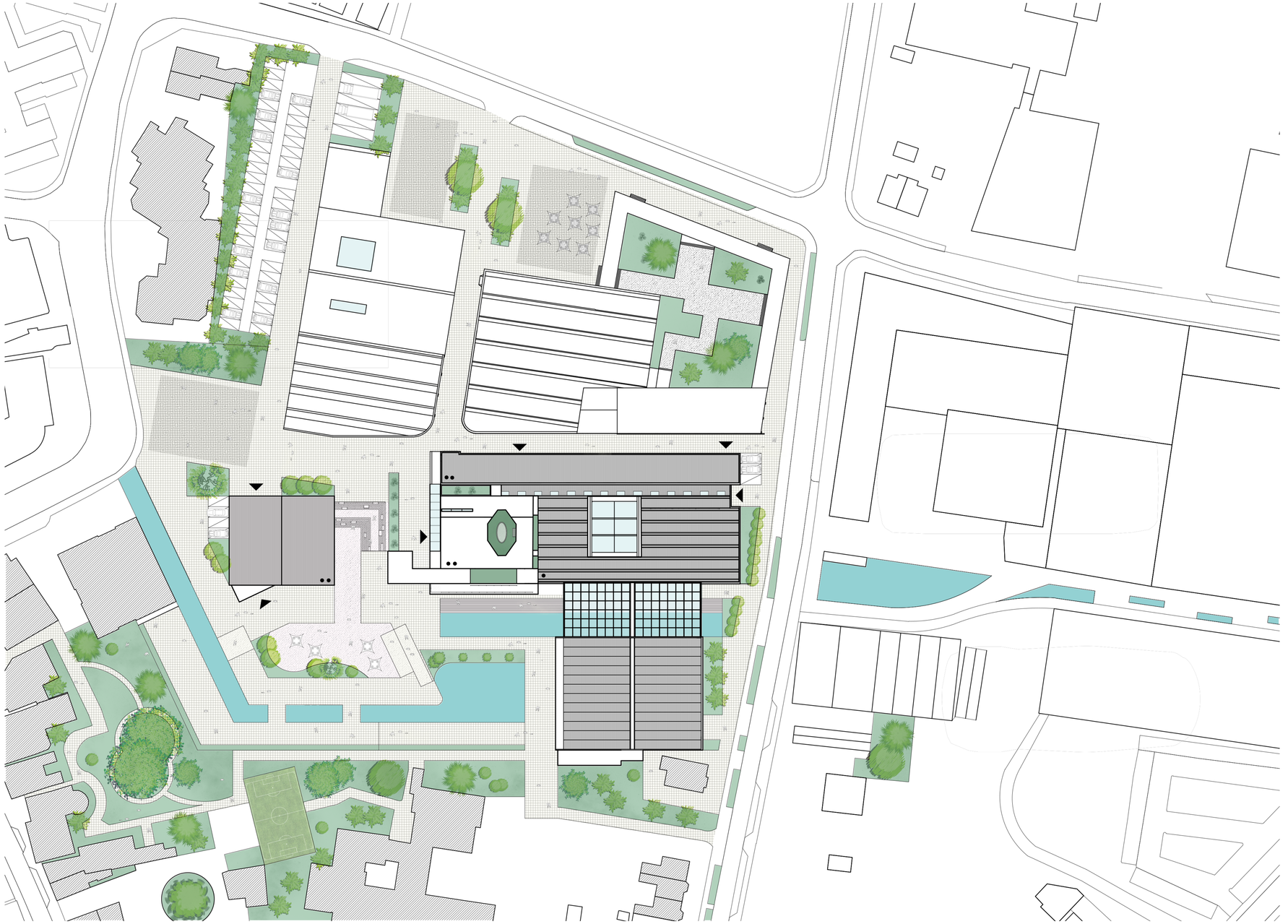
after demolishment



accebility

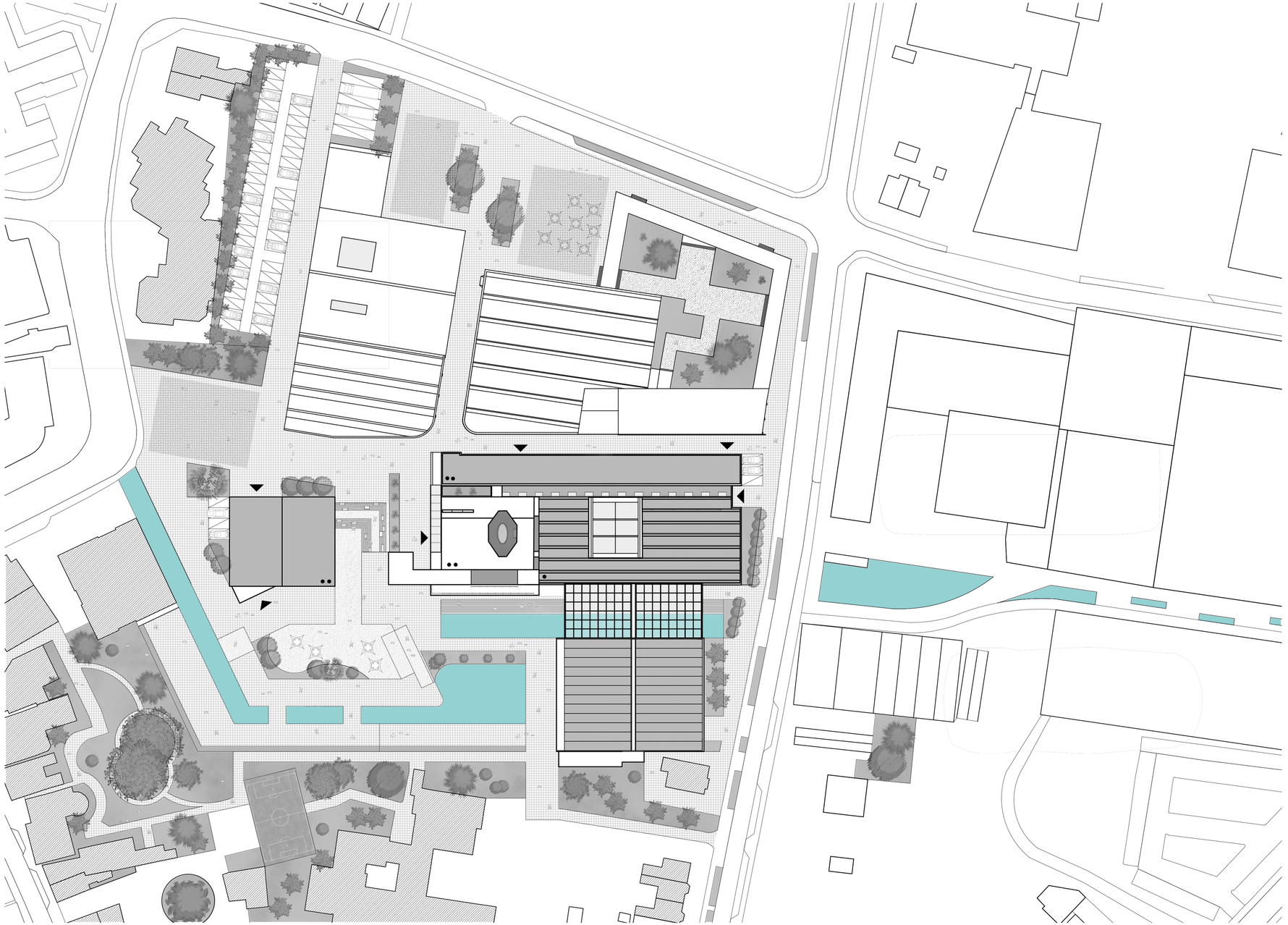


trend of river and joost's plan



Site plan

25m 50m



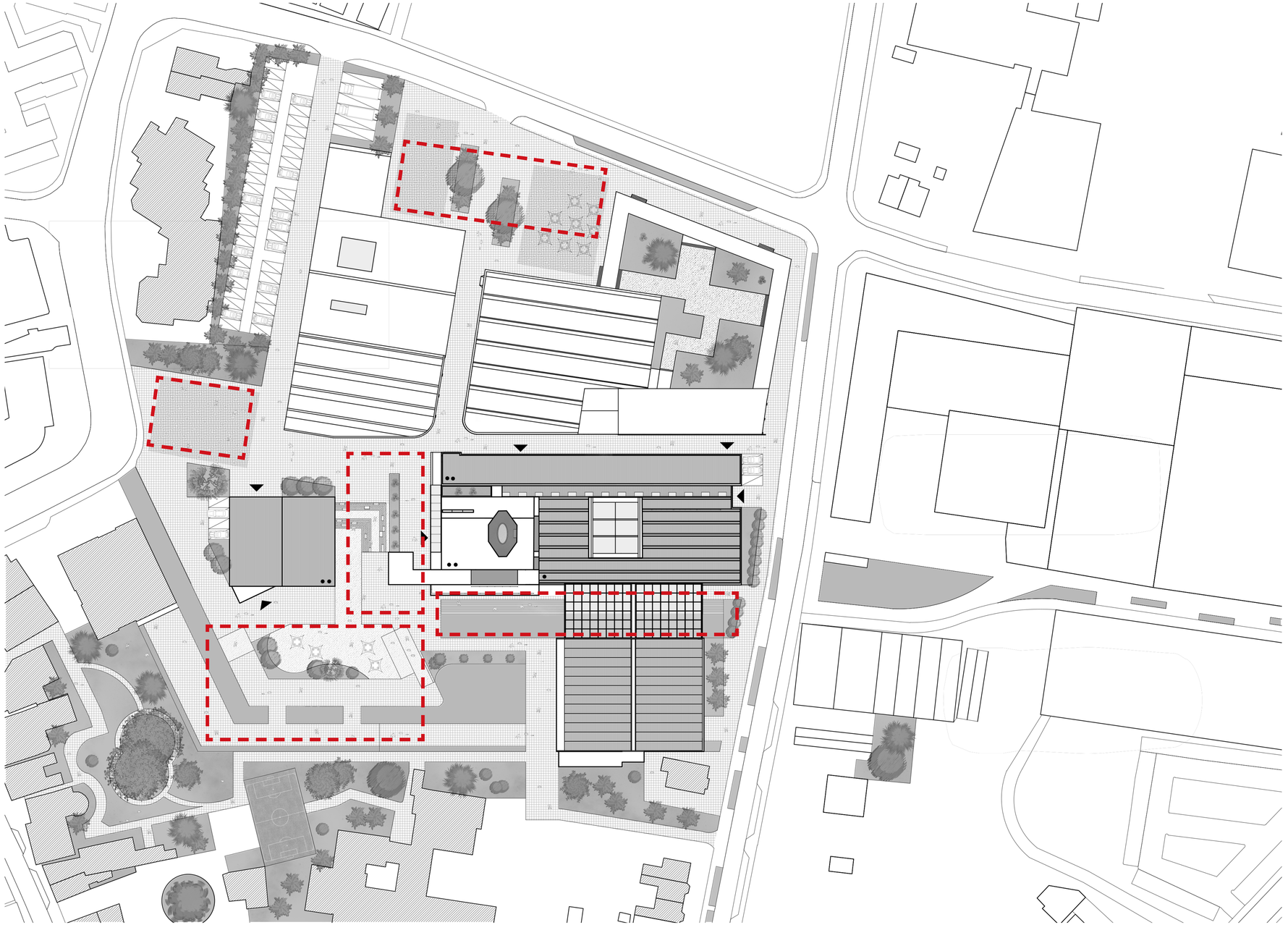
Whemerbeek renaissance



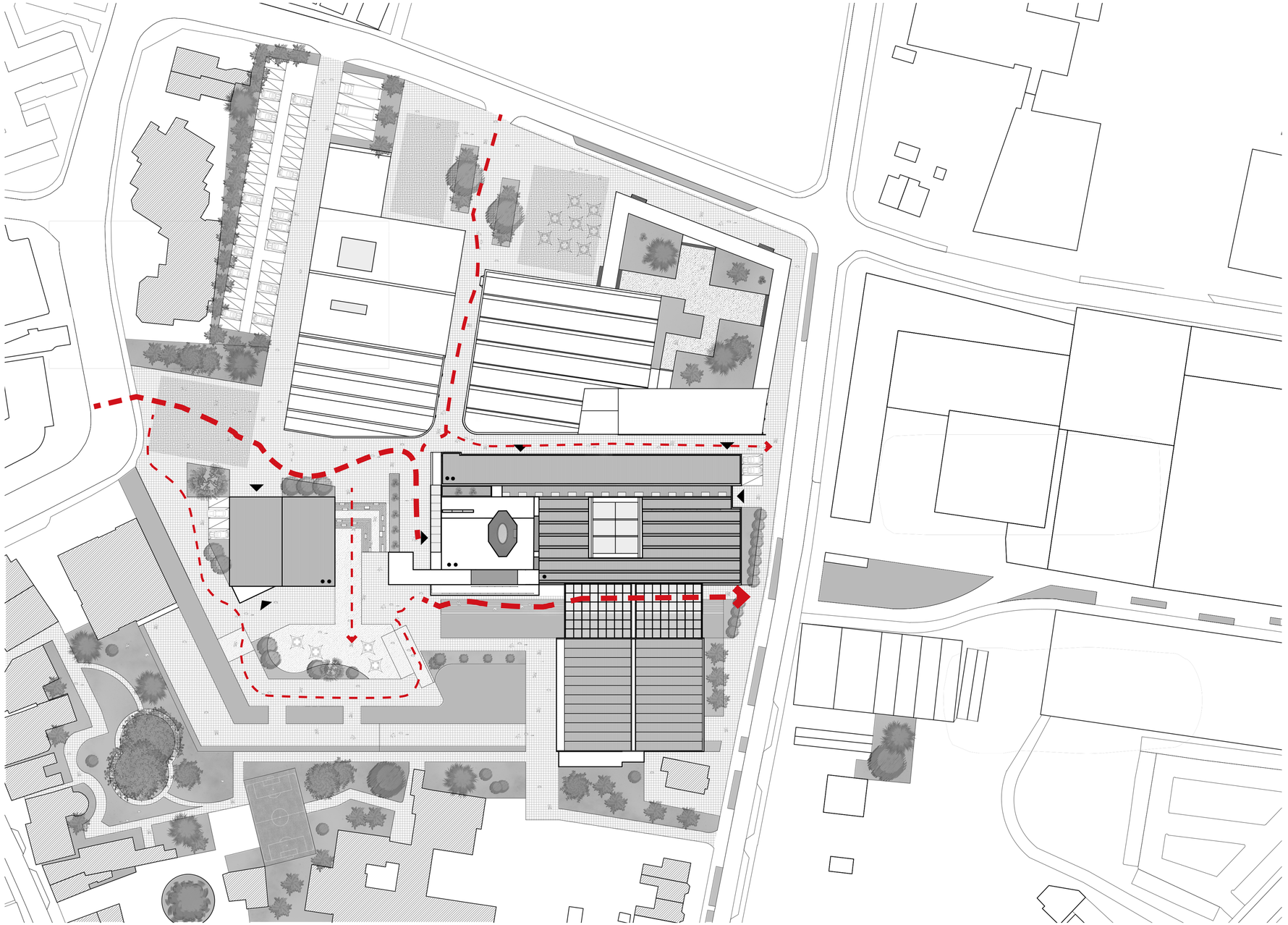
green layout



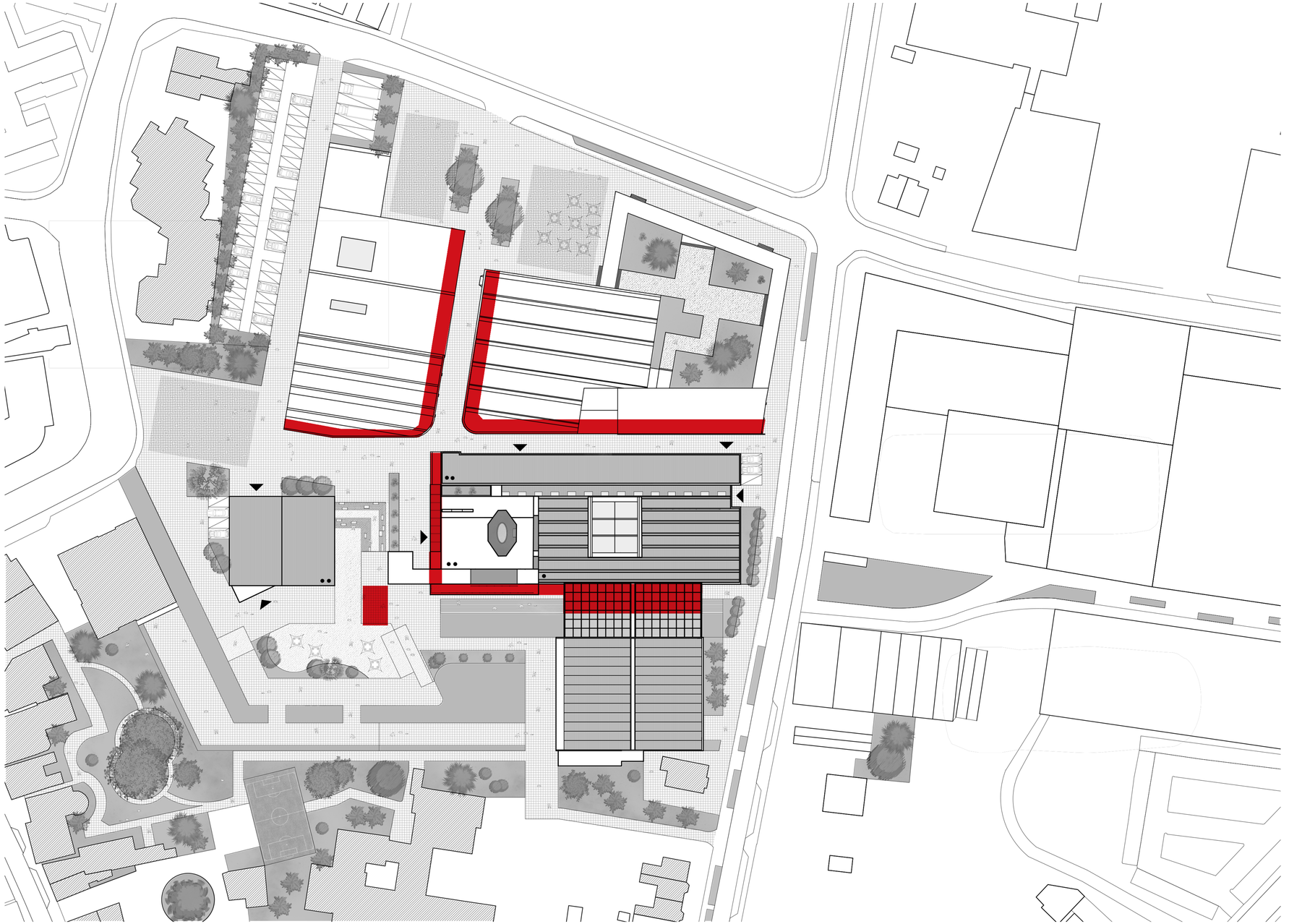
prive-public sequence



adding more public square



pedestrian routine



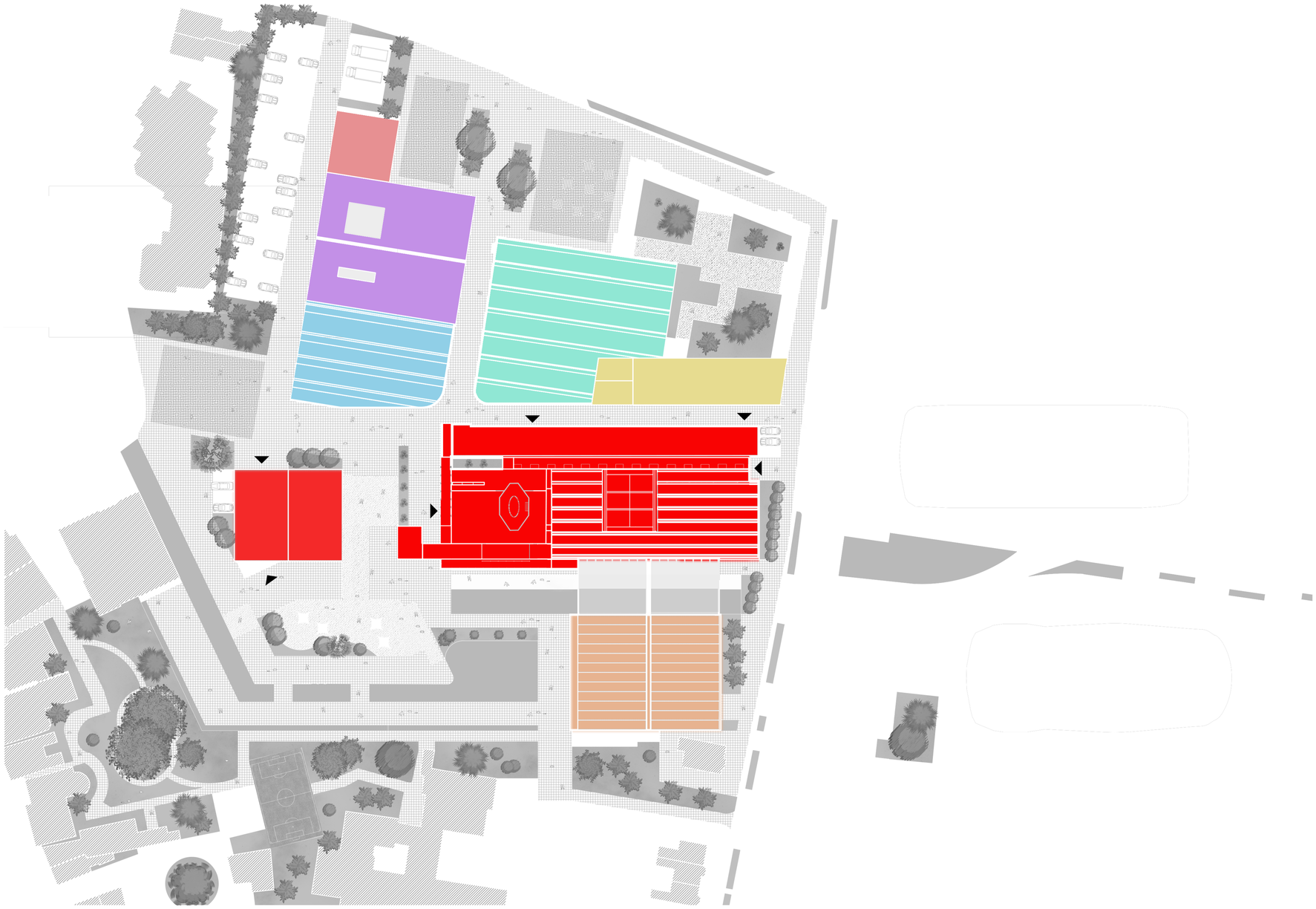
stayable corridor/space



original situation



Whemerbeek corridor


rehabilitation
nursing
clinc
office
school/studio
market
museum lecture hall
museum

RESEARCH:

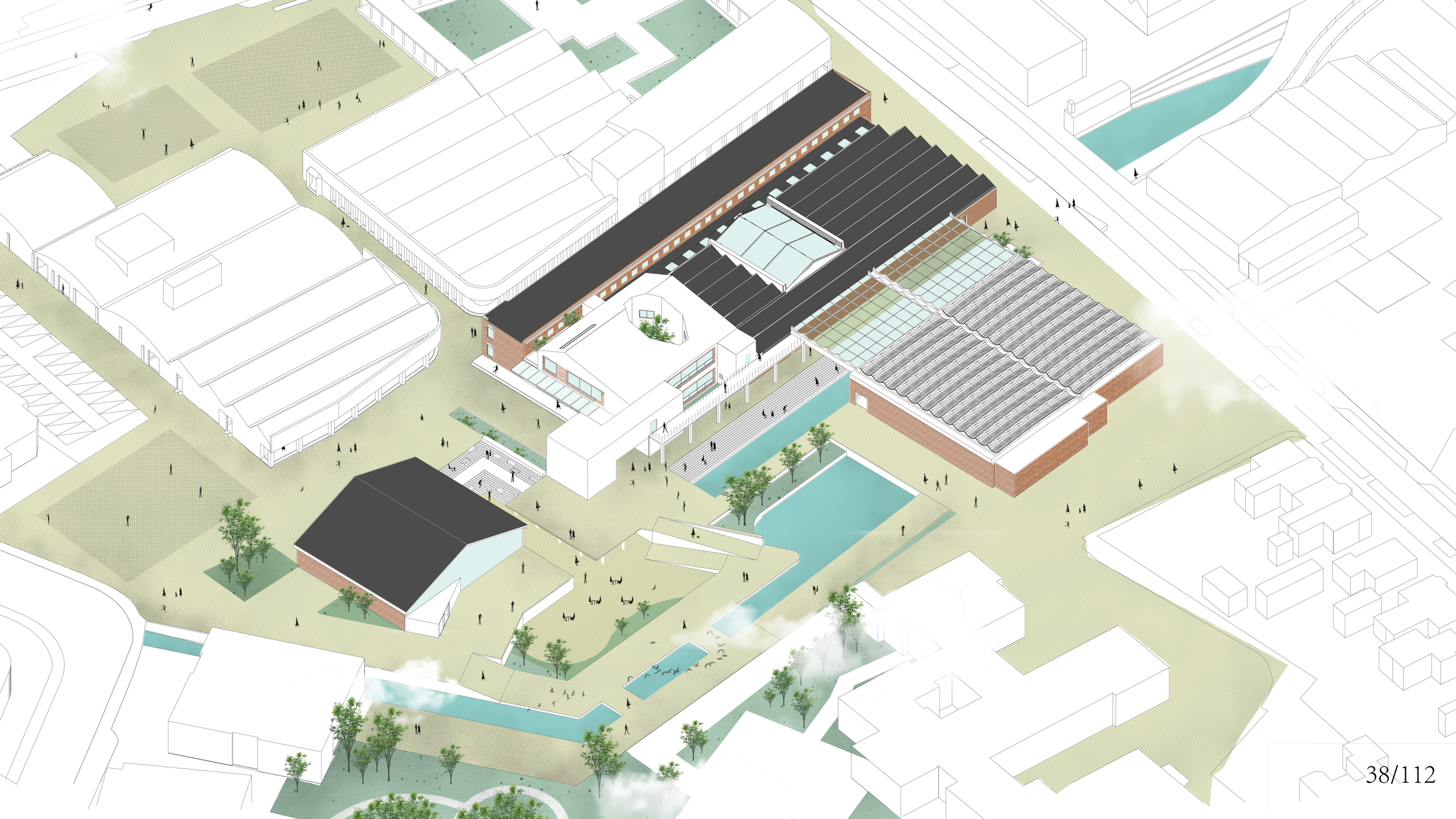
Introdction for Winterswijk& Industrial area

STATEMENT:

Problem analysis

SOLUTION:

Site design
Museum design
Building technology



Textile museum



exhibit

Gaudium



produce

exhibition space

room for old machine(only exhi)



room for modern machine



room for textile product (old)



room for textile product (new)



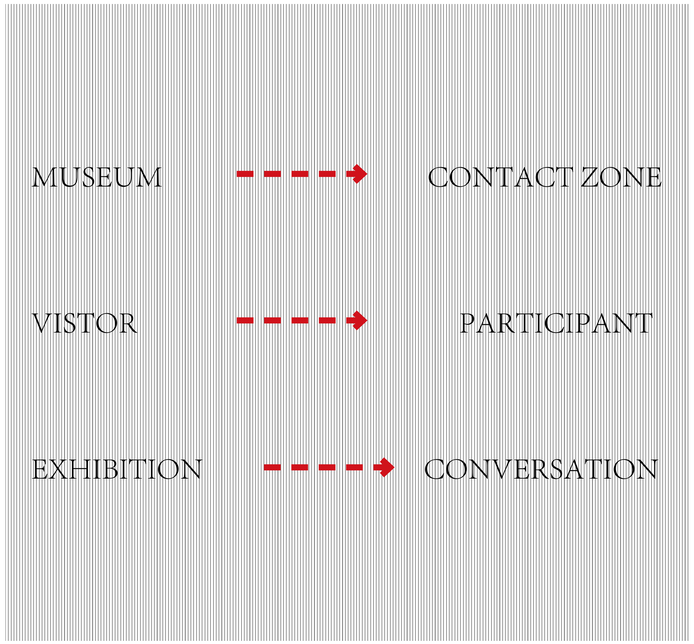
room for other artwork(painting sculputure, collection)
t



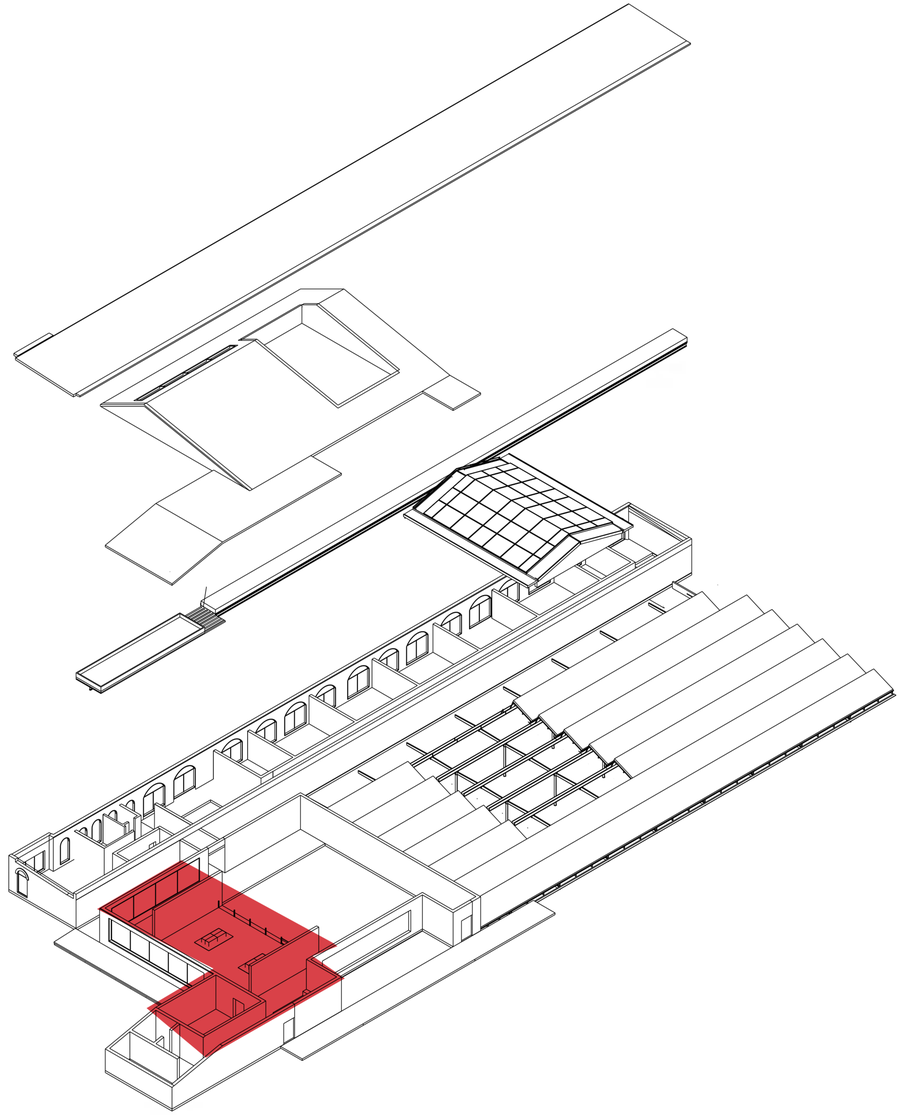
room for the window



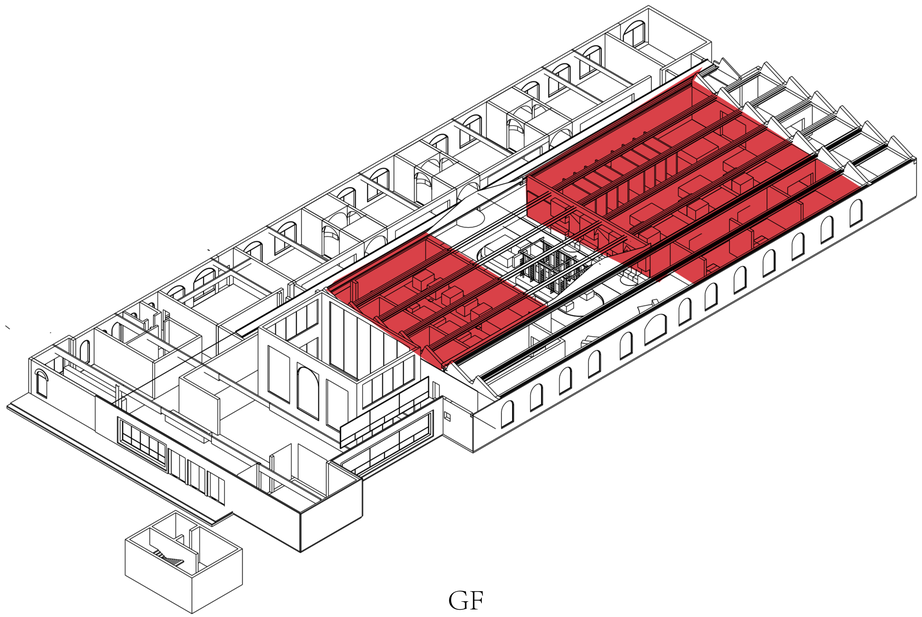
Position Of Transformating
Modern Museum



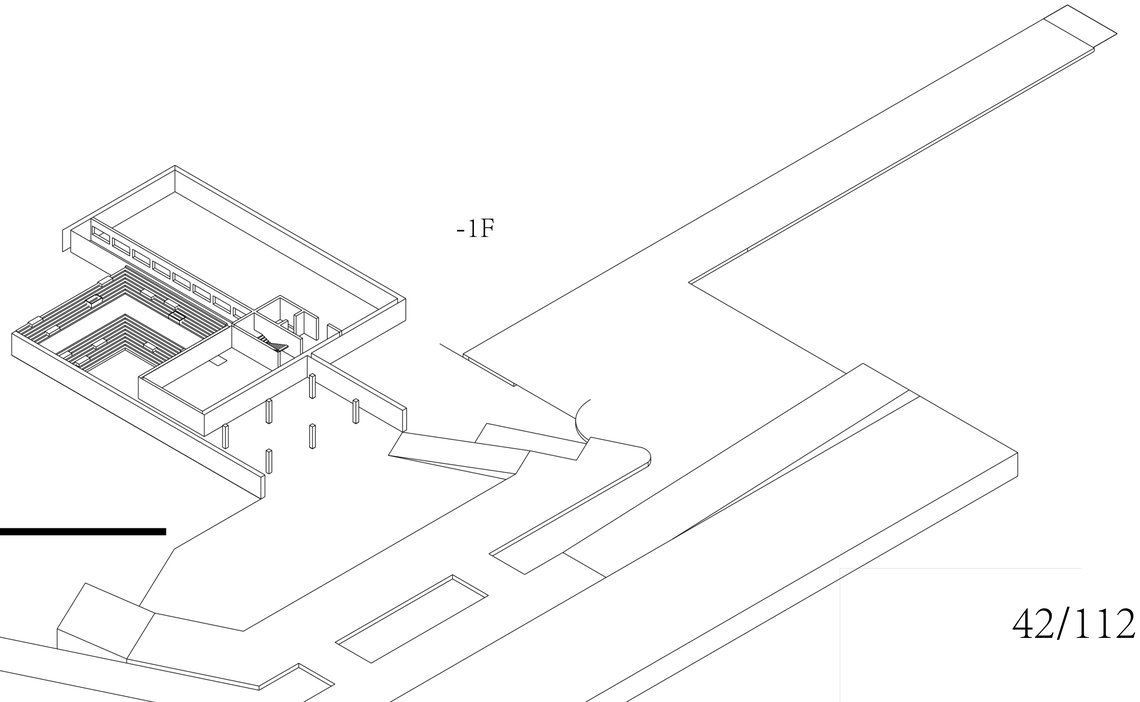
what conversation?	social behaviors
vistor to object: machine product structure (temporary exhibition)	vistor to object: watching touching producing experiencing
vistor to people:	vistor to people: watching talking learning



1F

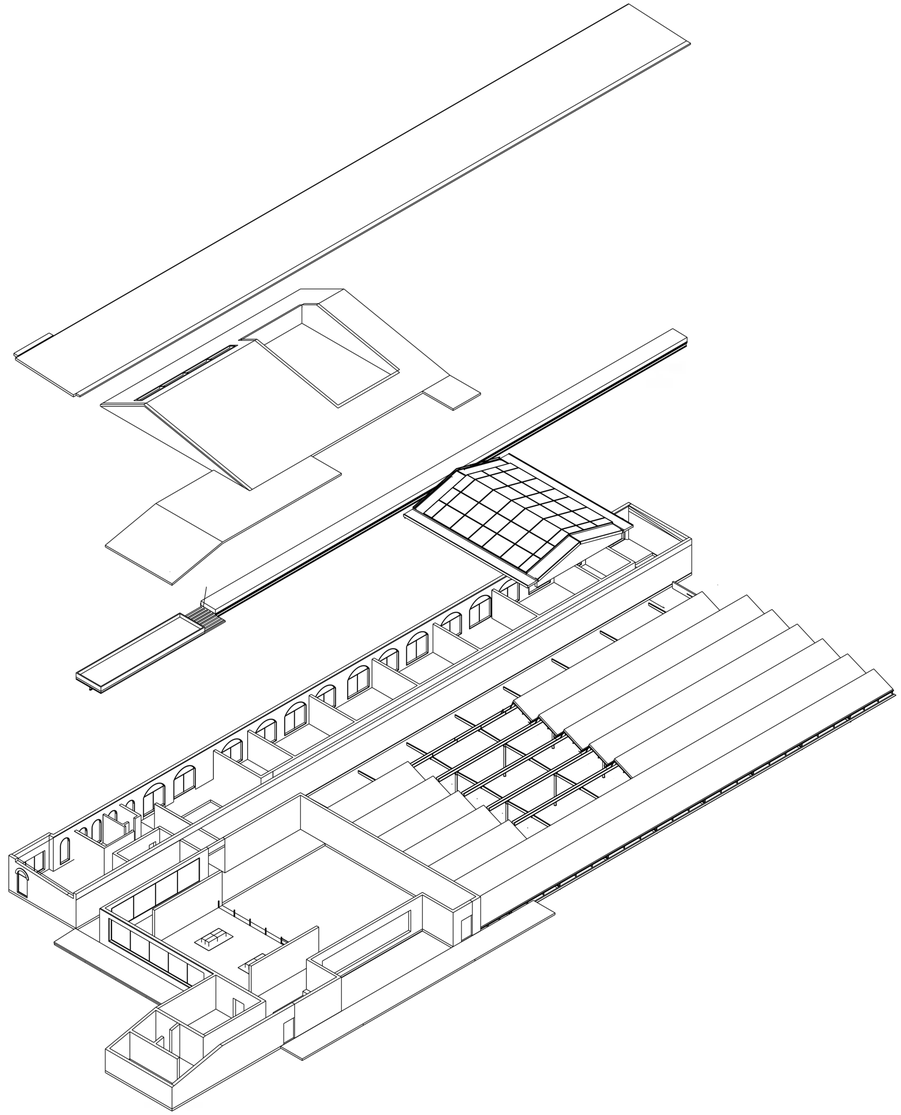


GF

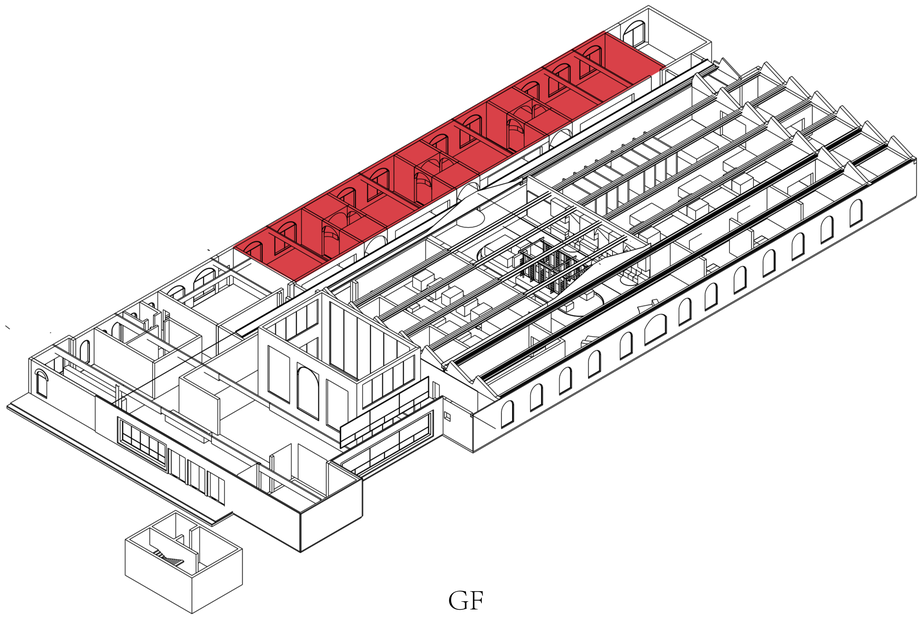


-1F

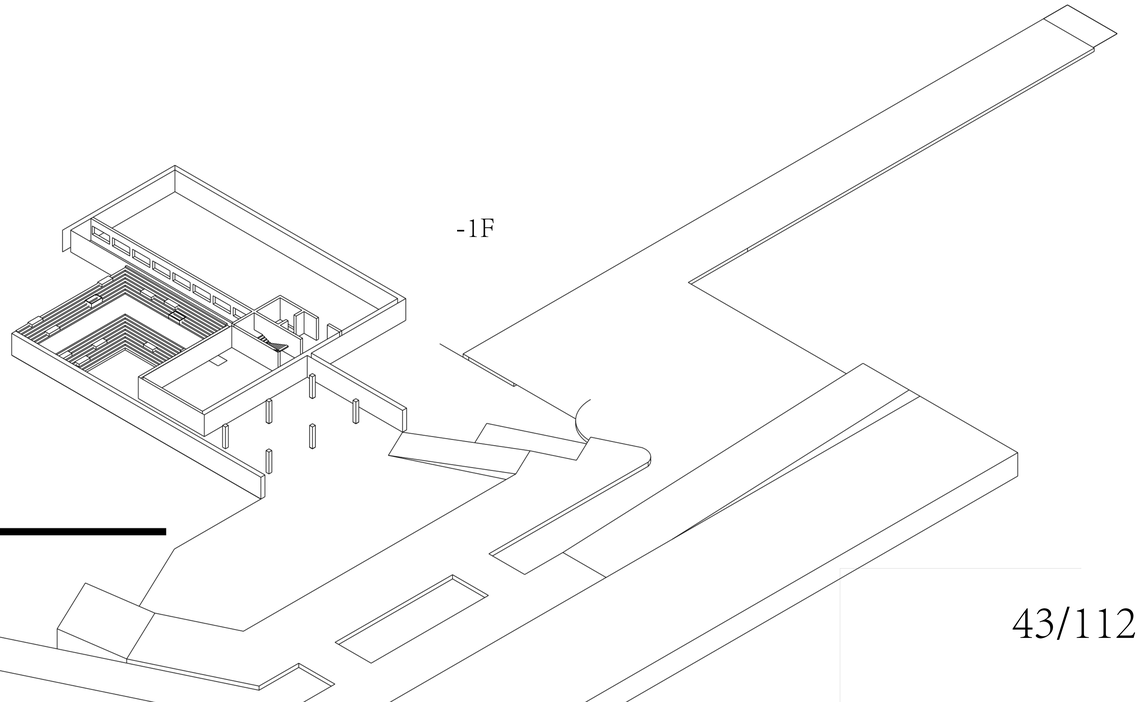
exhibition space



1F

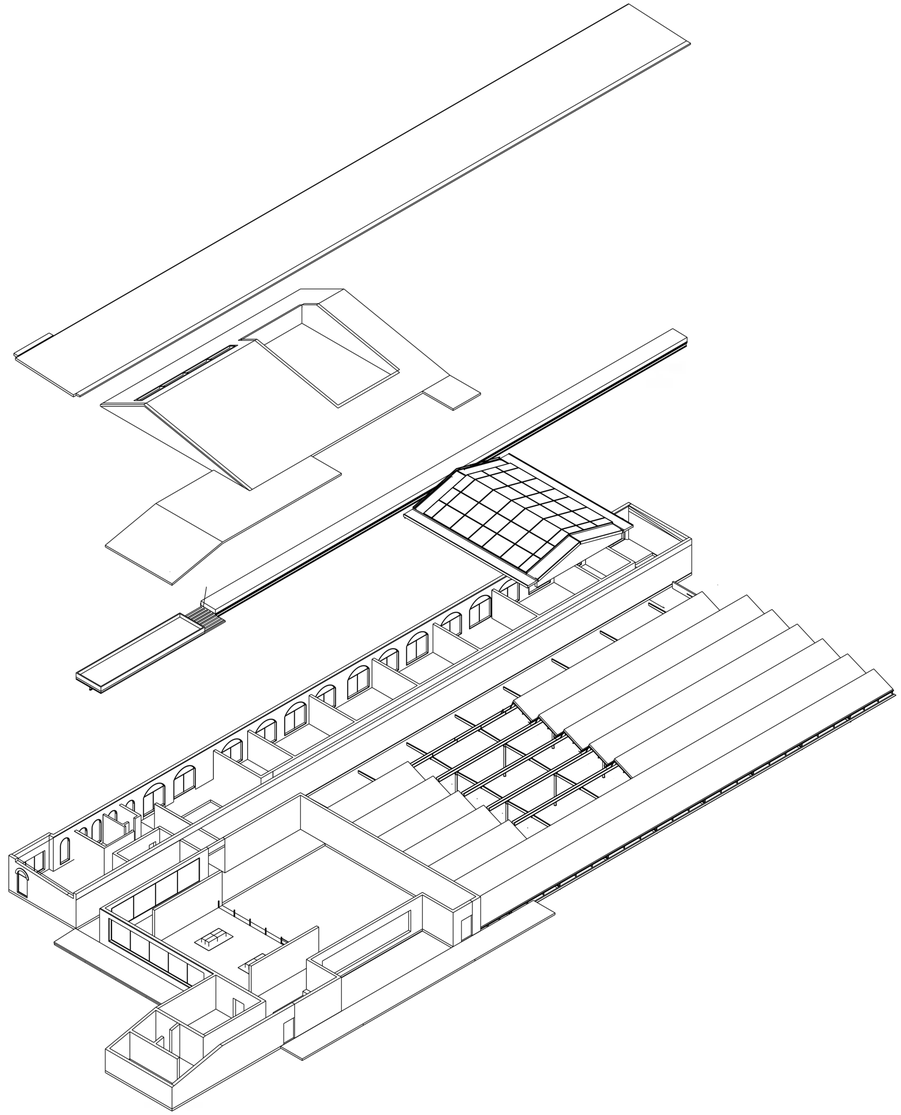


GF

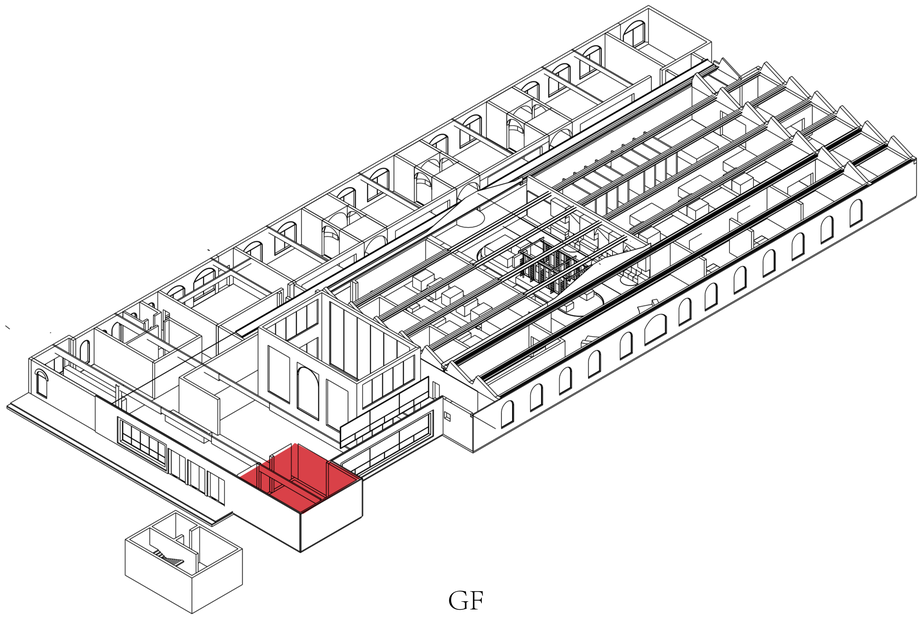


-1F

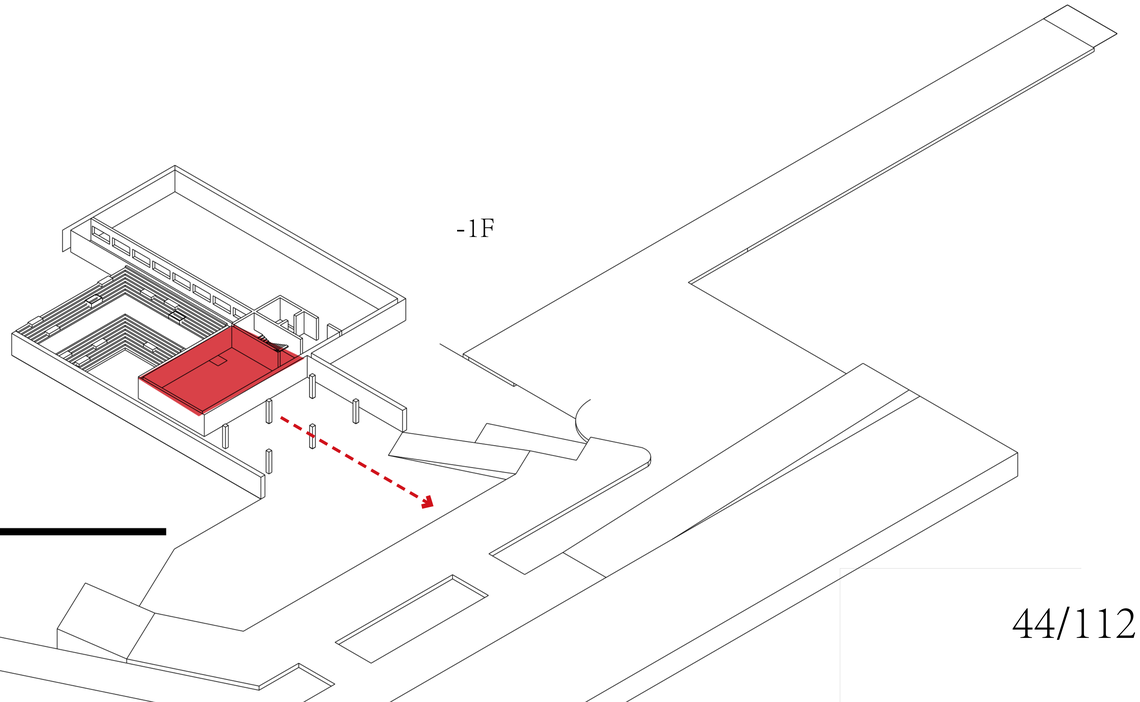
studio



1F

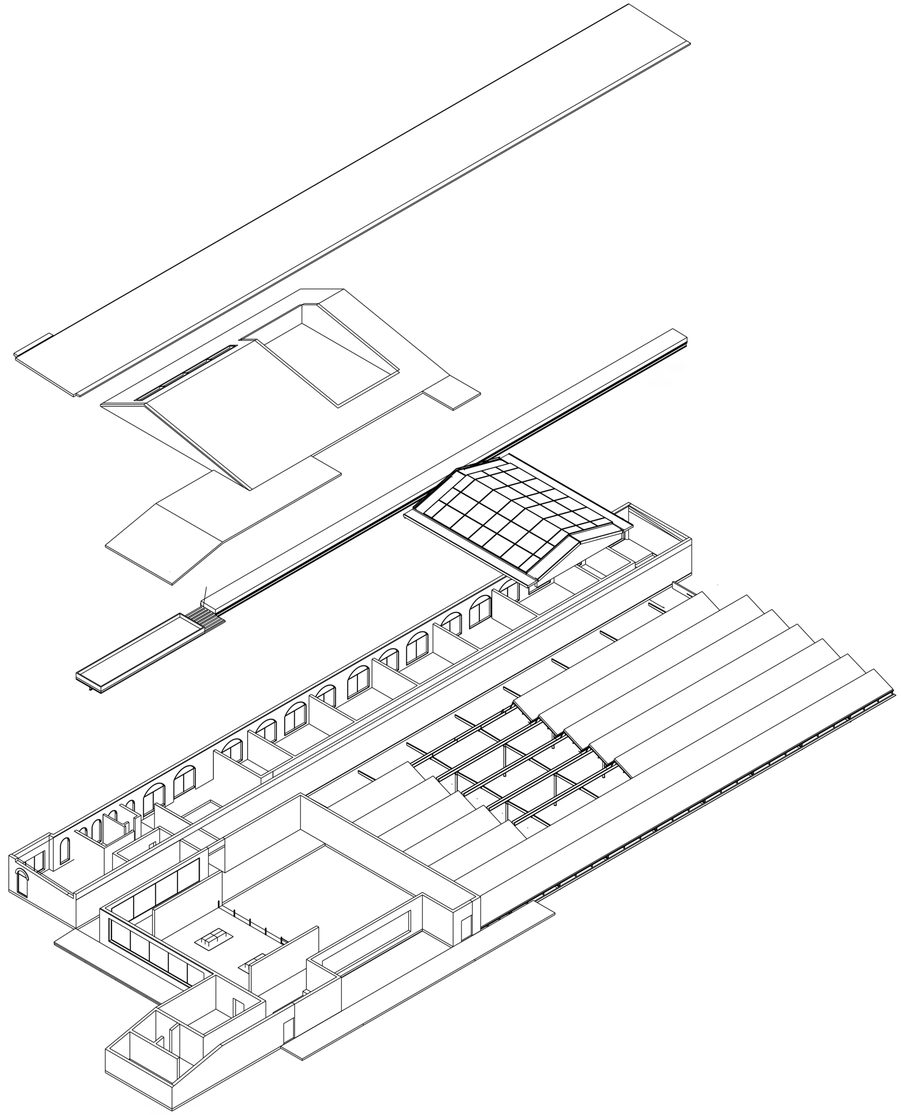


GF

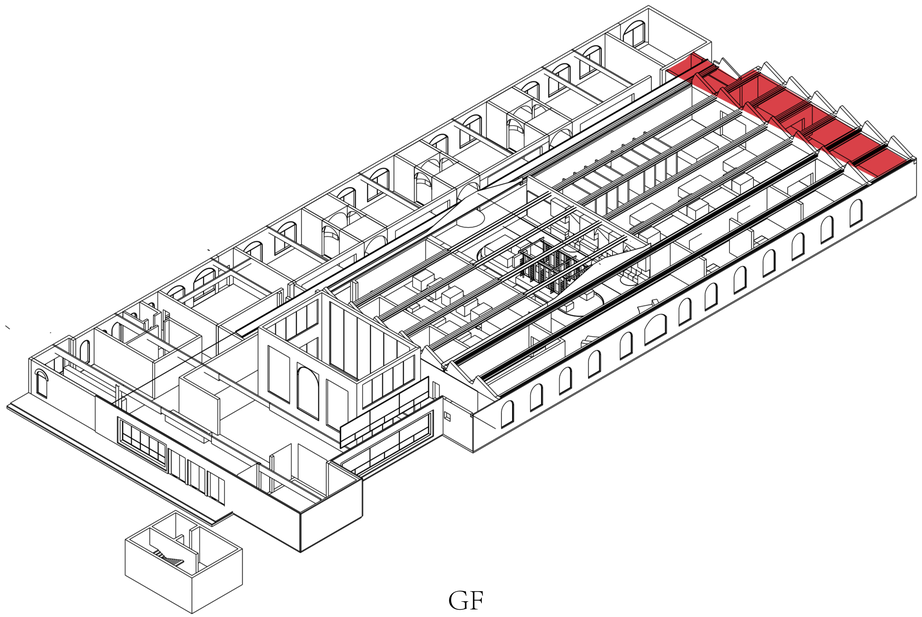


-1F

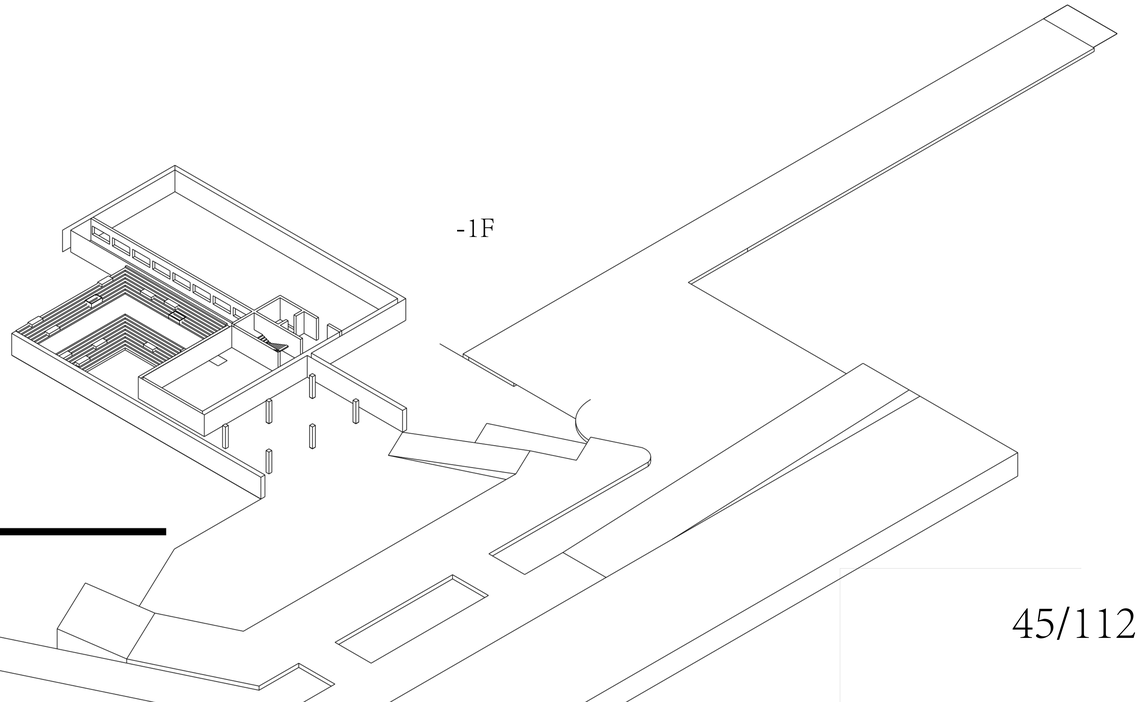
commercial space



1F

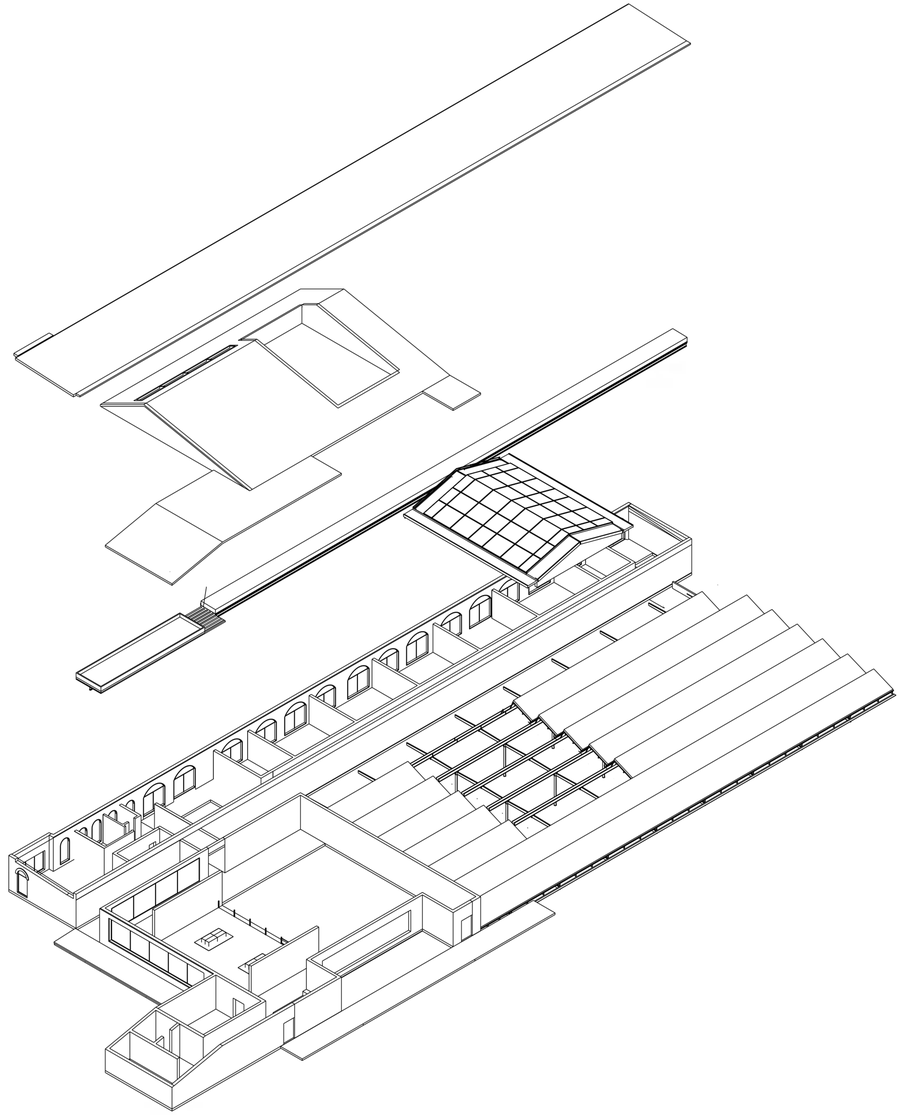


GF

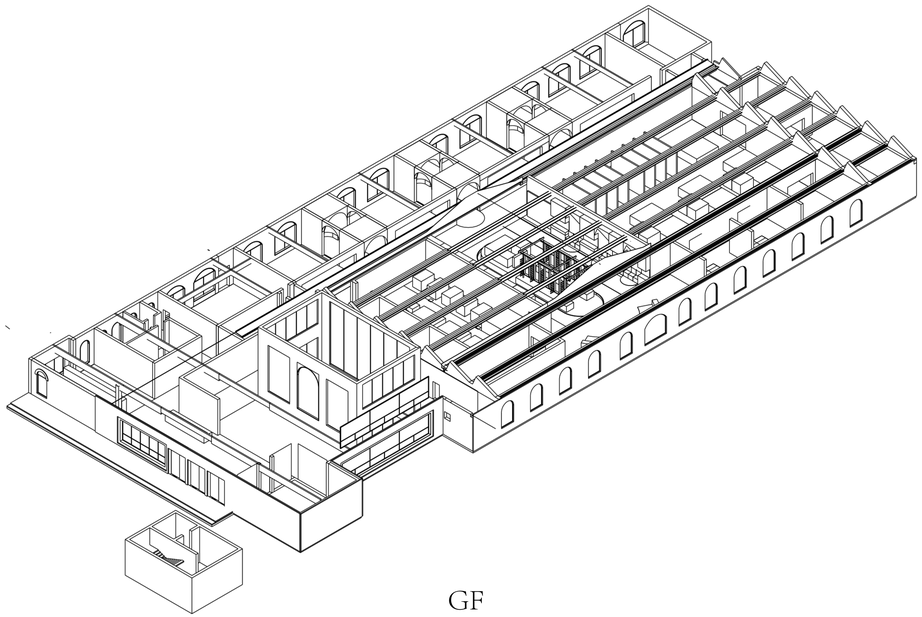


-1F

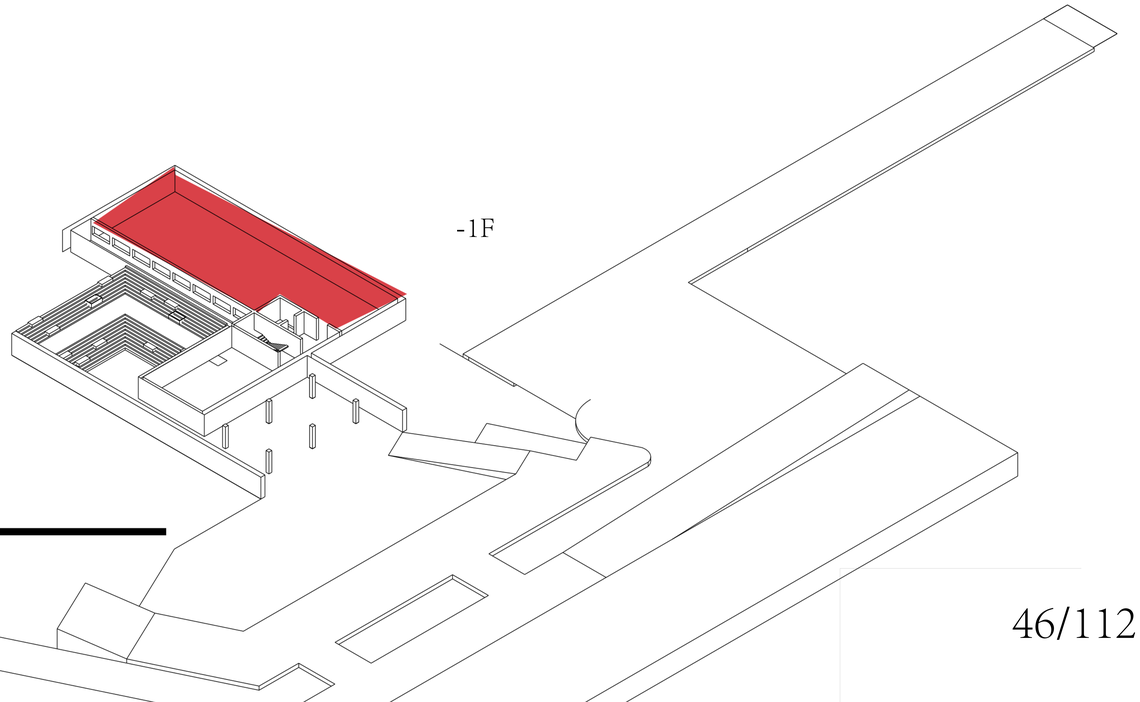
factory storage



1F

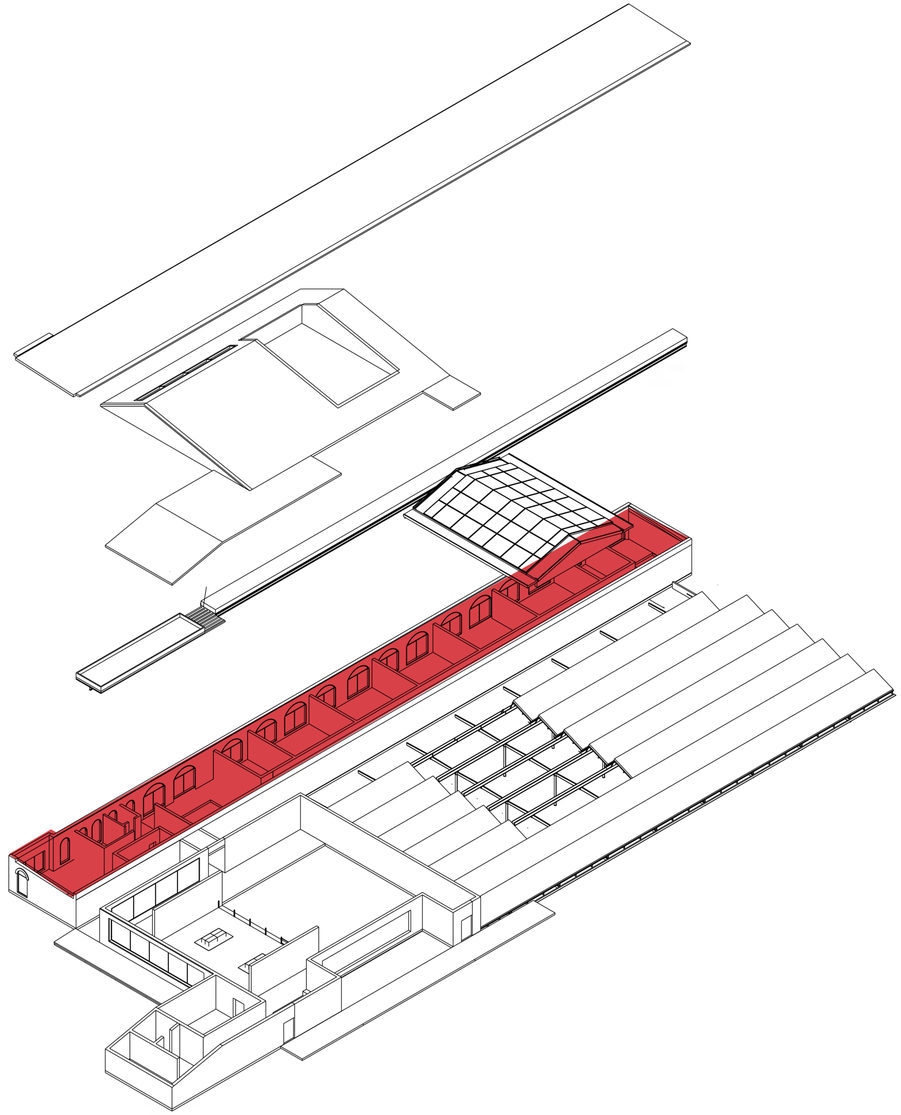


GF

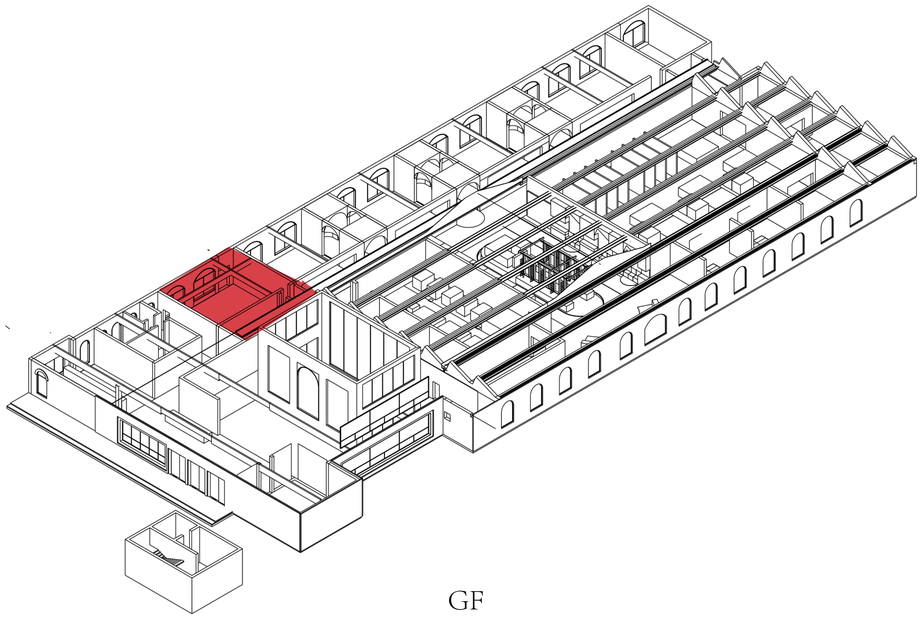


-1F

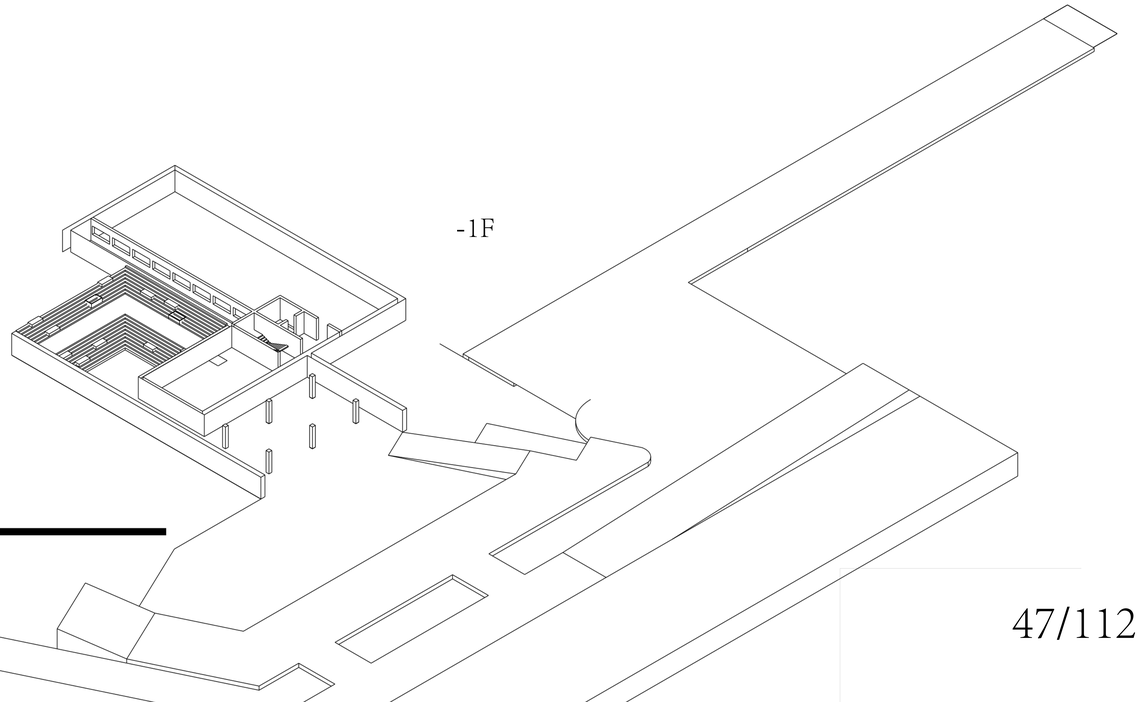
equipment room



1F

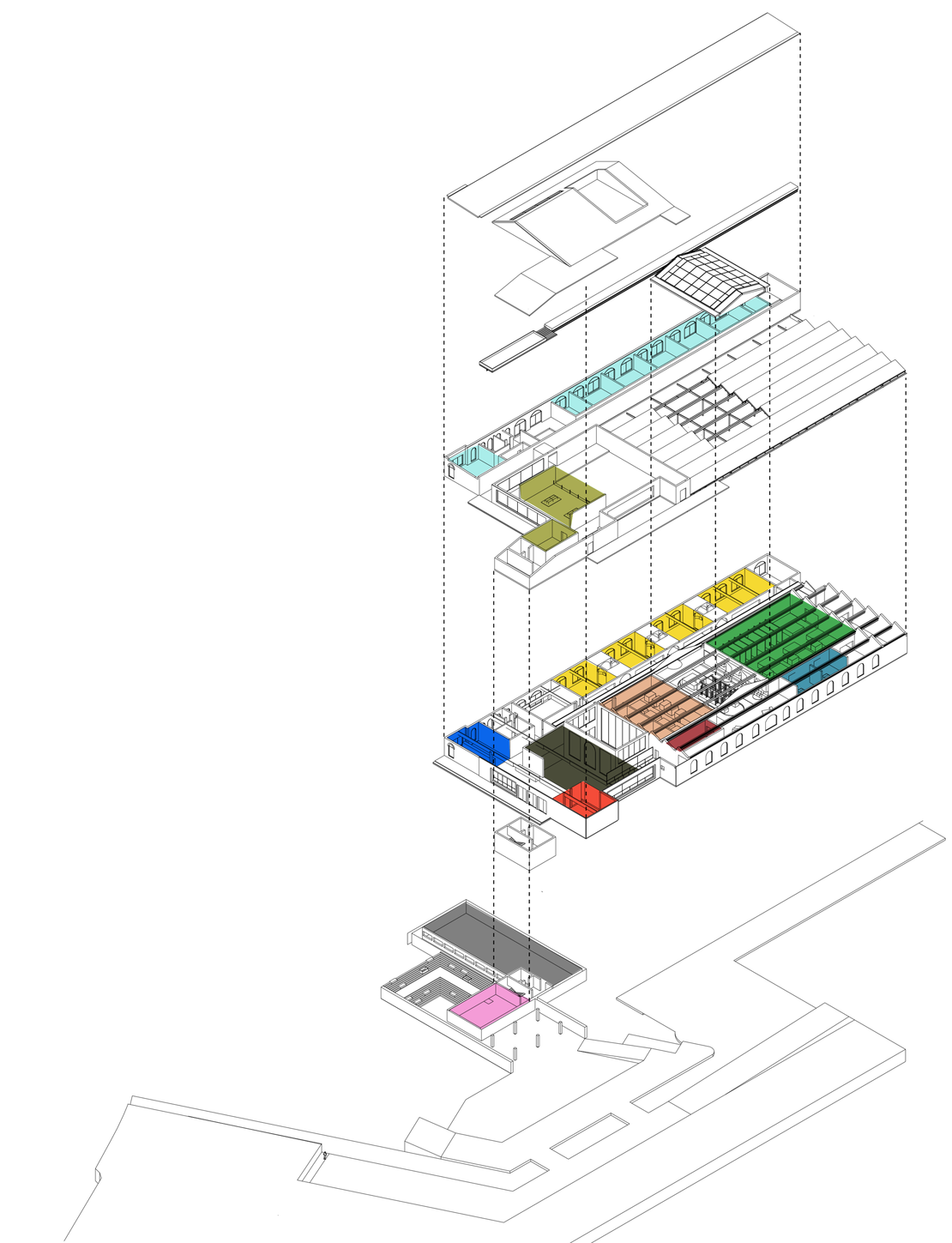


GF

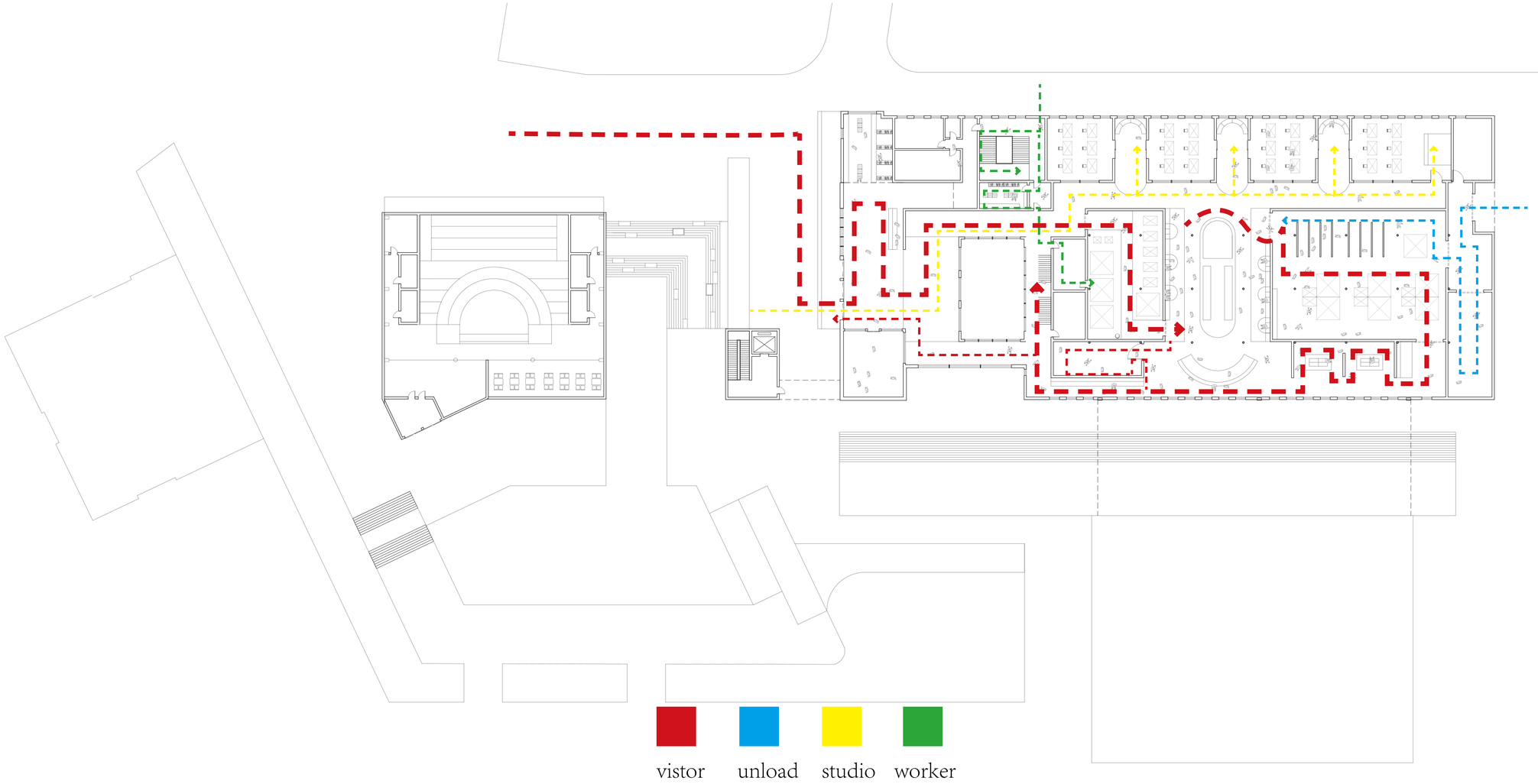


-1F

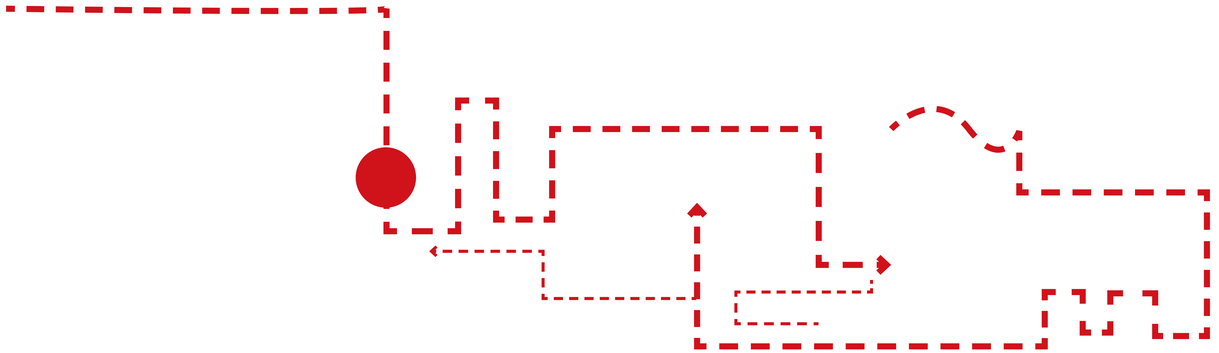
office



- office
- temporary exhibition
- weaving studio
- machine exhibition
- modern textile exhibiton
- old machine exhibiton
- old textile exhibiton
- lobby
- shop
- cloak room
- equipment room
- cafe



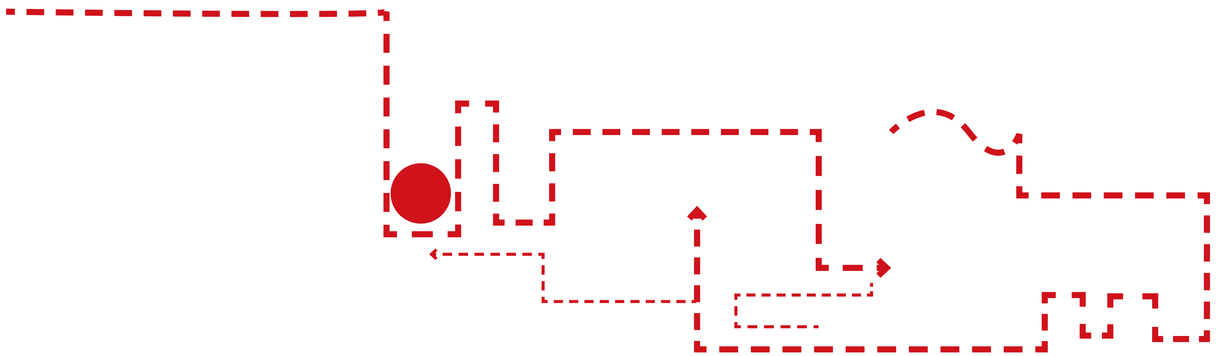
Routine





original situation

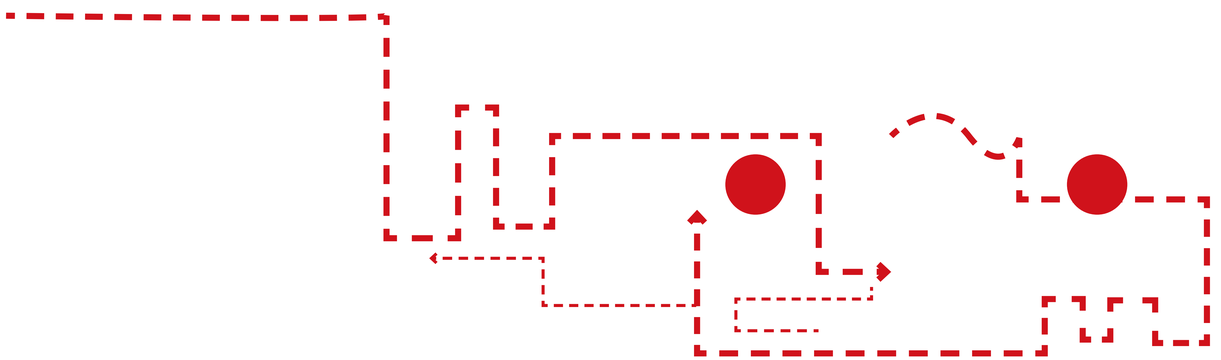






original situation



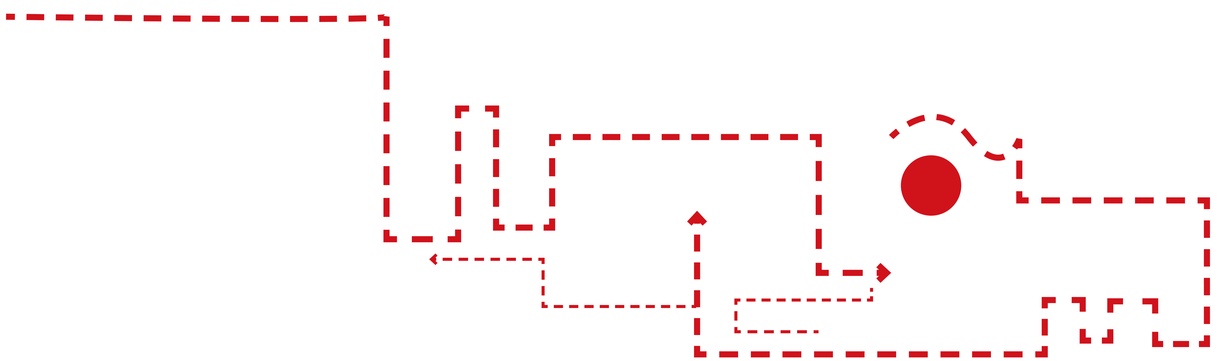




original situation



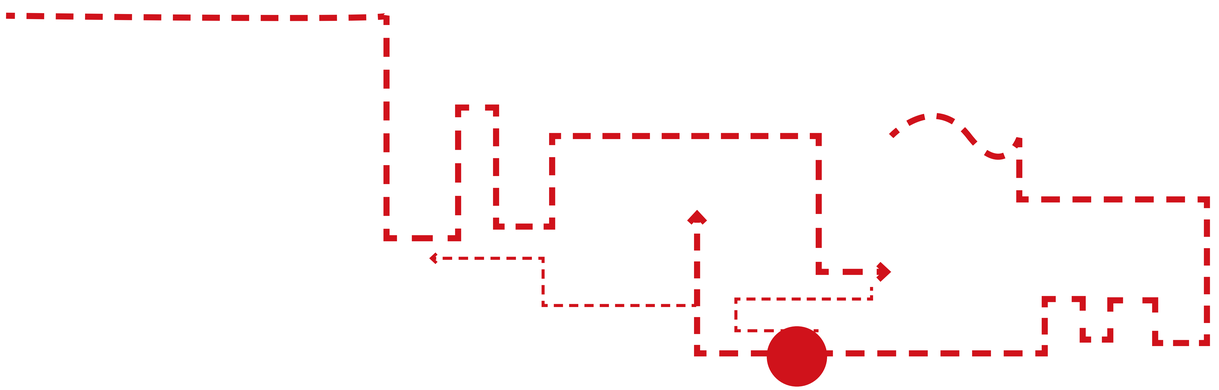
new machine exhibiton room



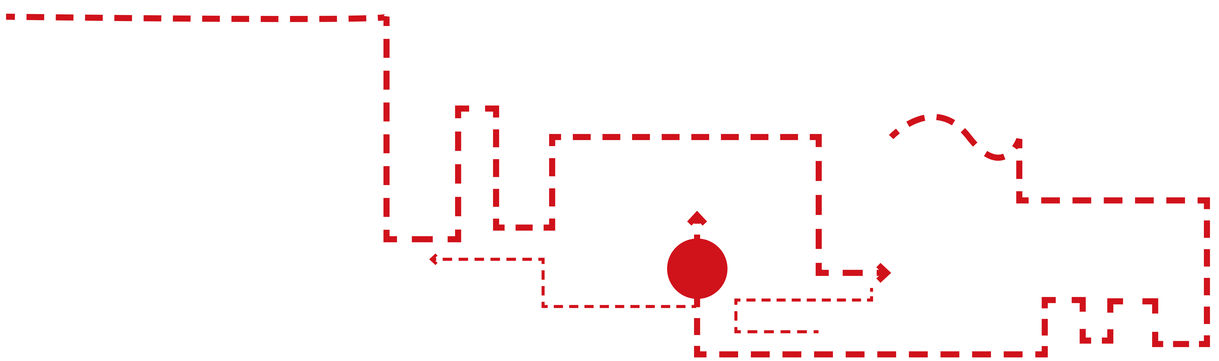


original situation





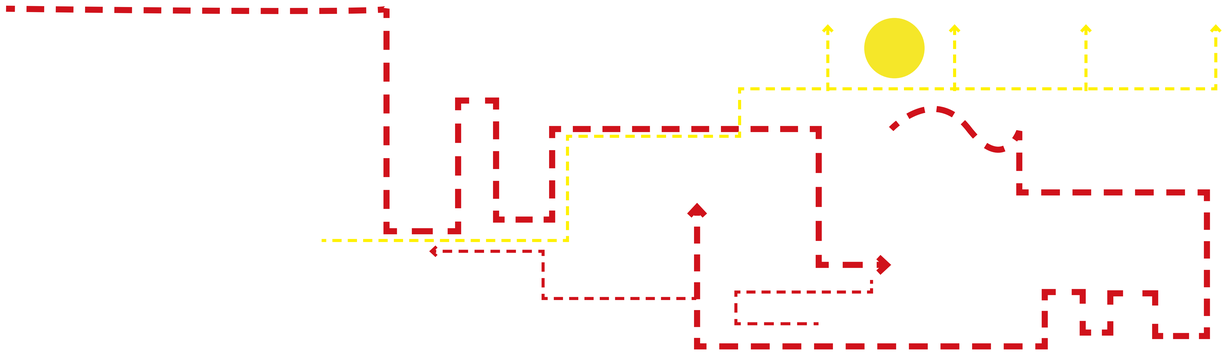














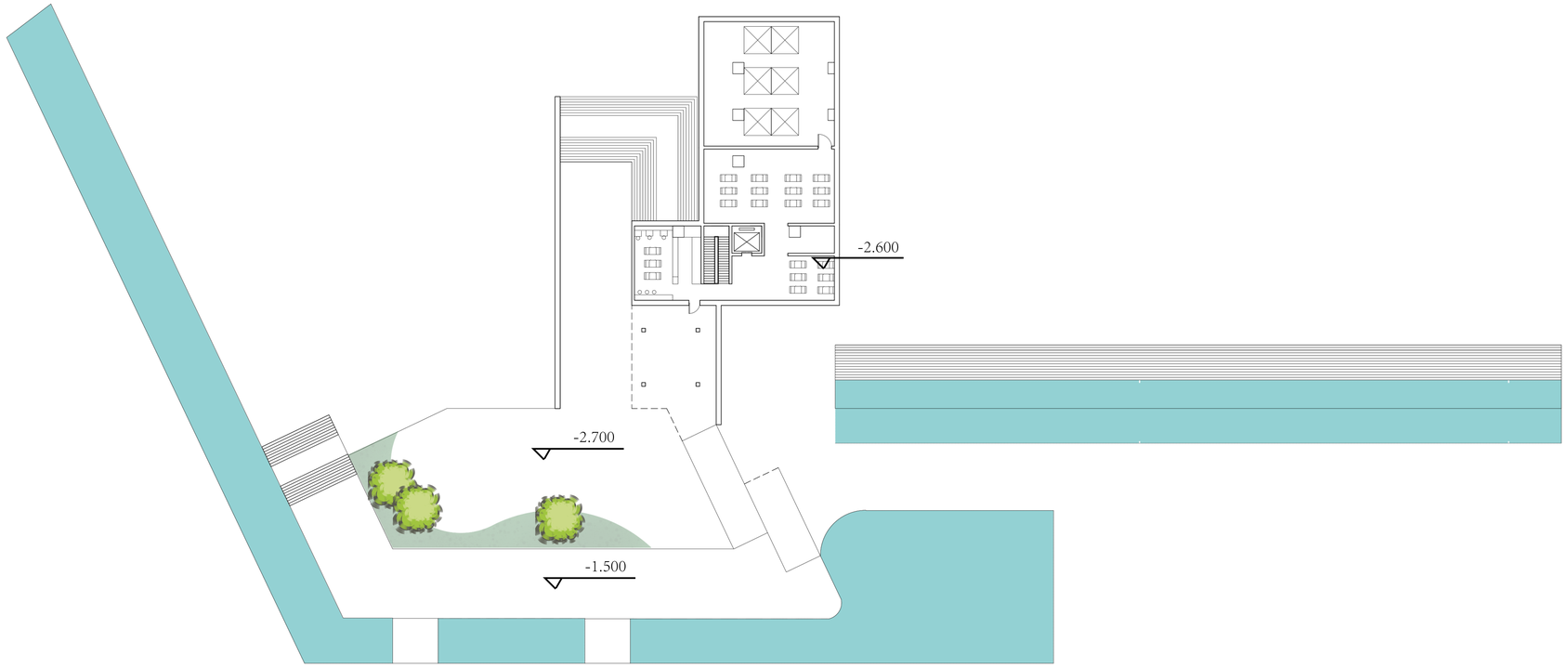
original situation



studio room

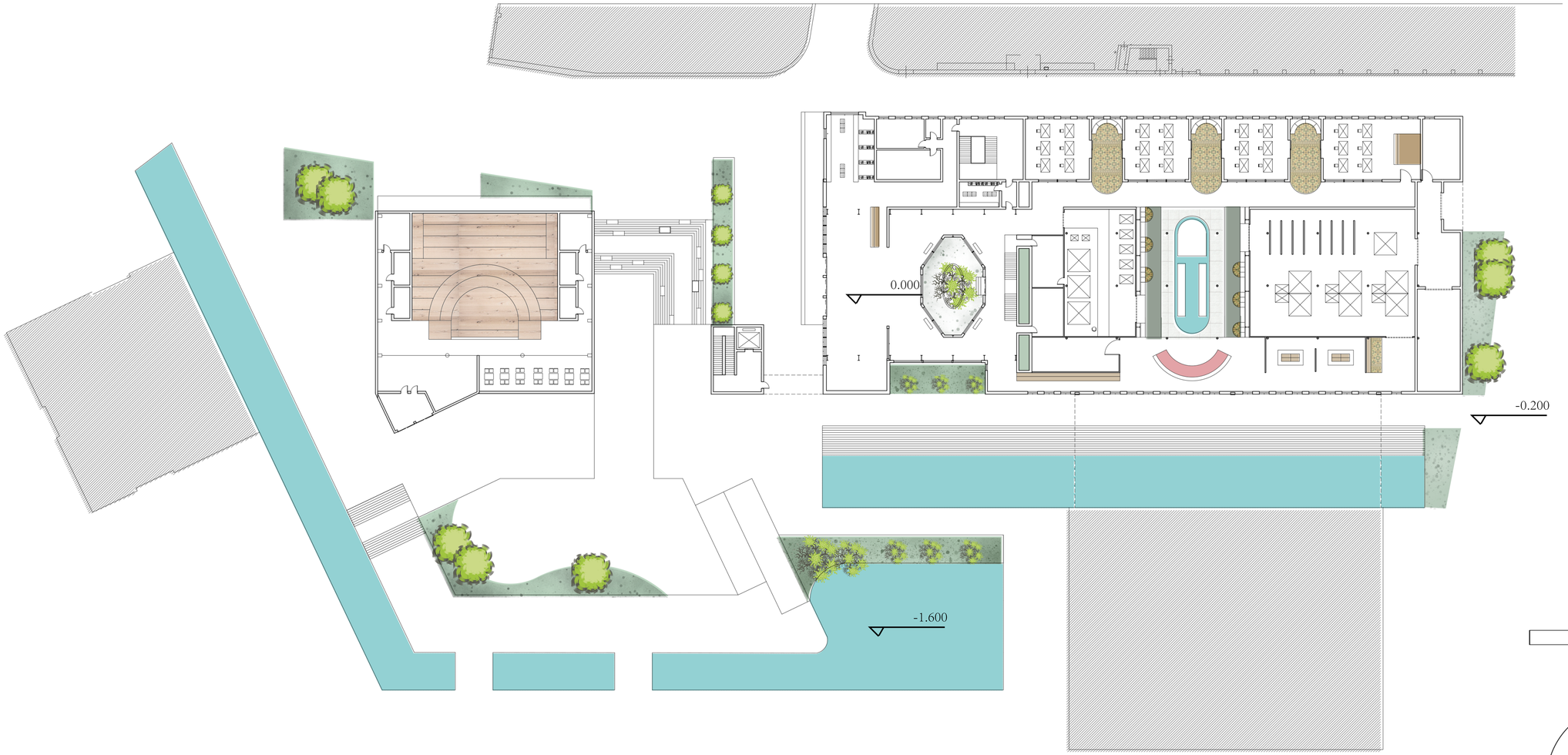


flexible for exhibiton



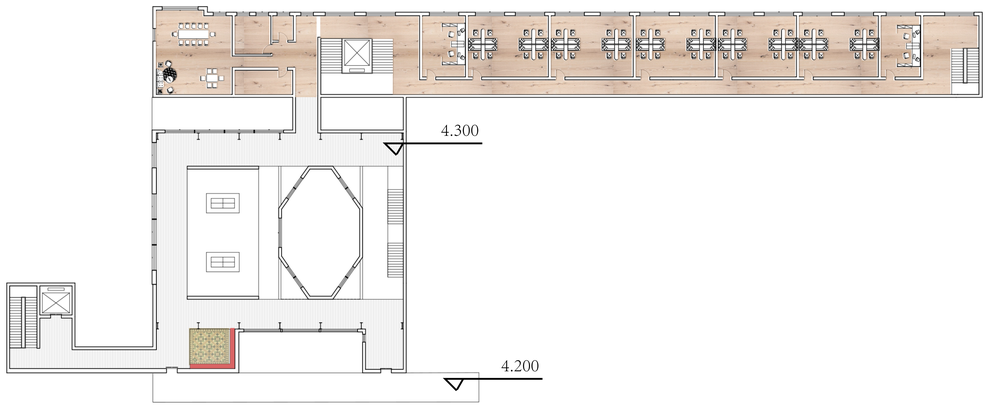
plan basement floor

12.5m 25m



12.5m 25m

plan ground floor



12.5m 25m

plan ground floor



west facade



north facade

RESEARCH:

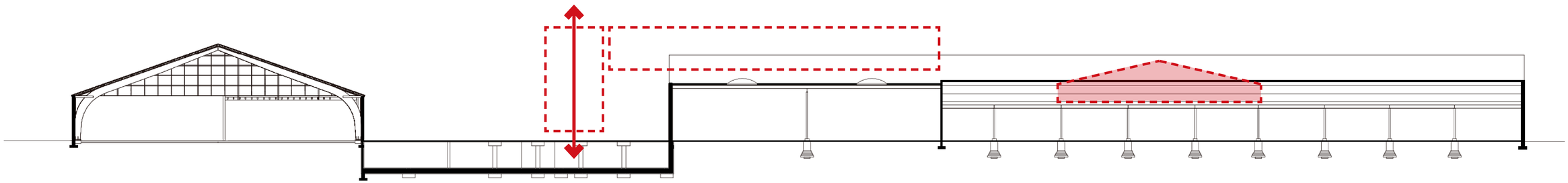
Introdction for Winterswijk& Industrial area

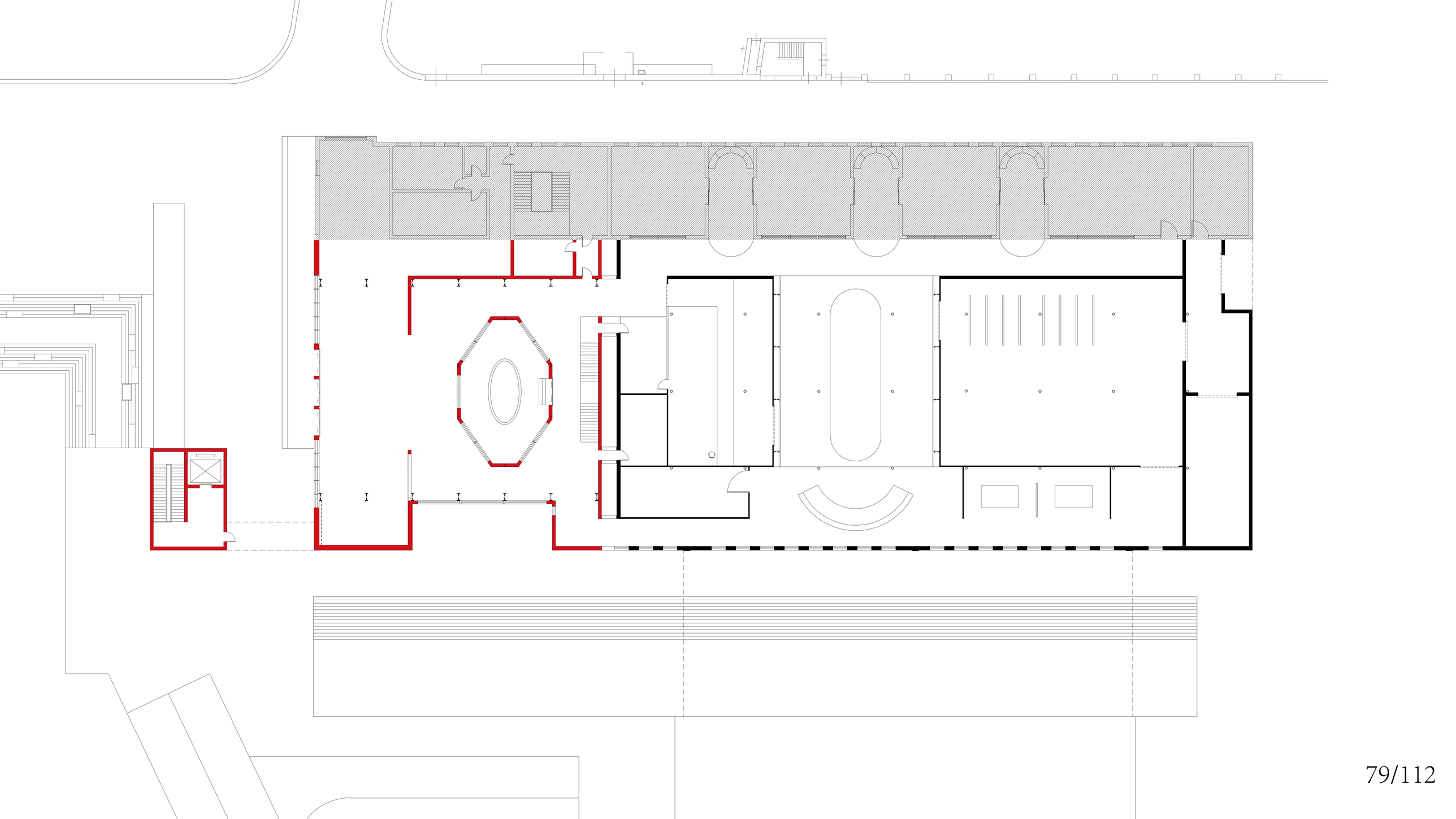
STATEMENT:

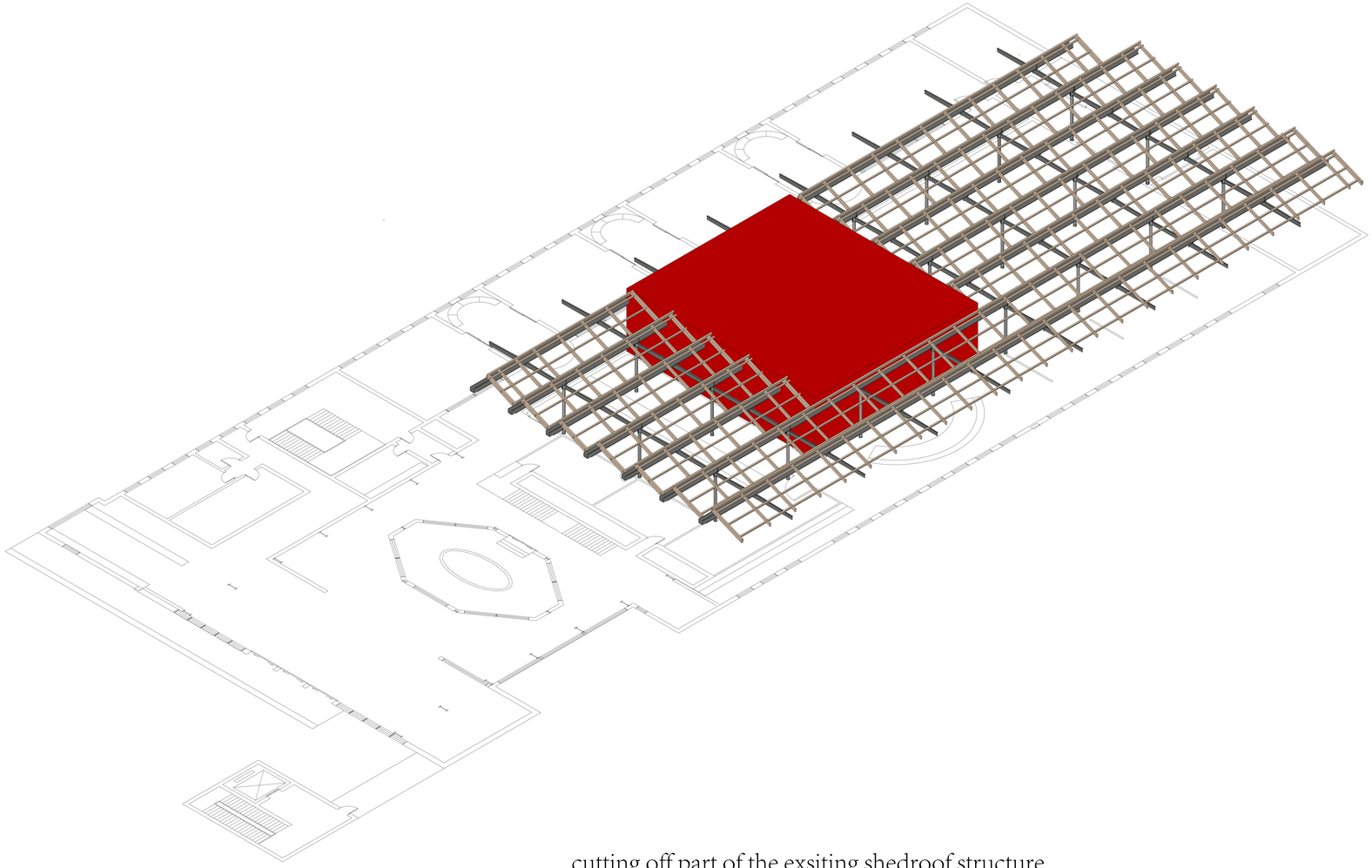
Problem analysis

SOLUTION:

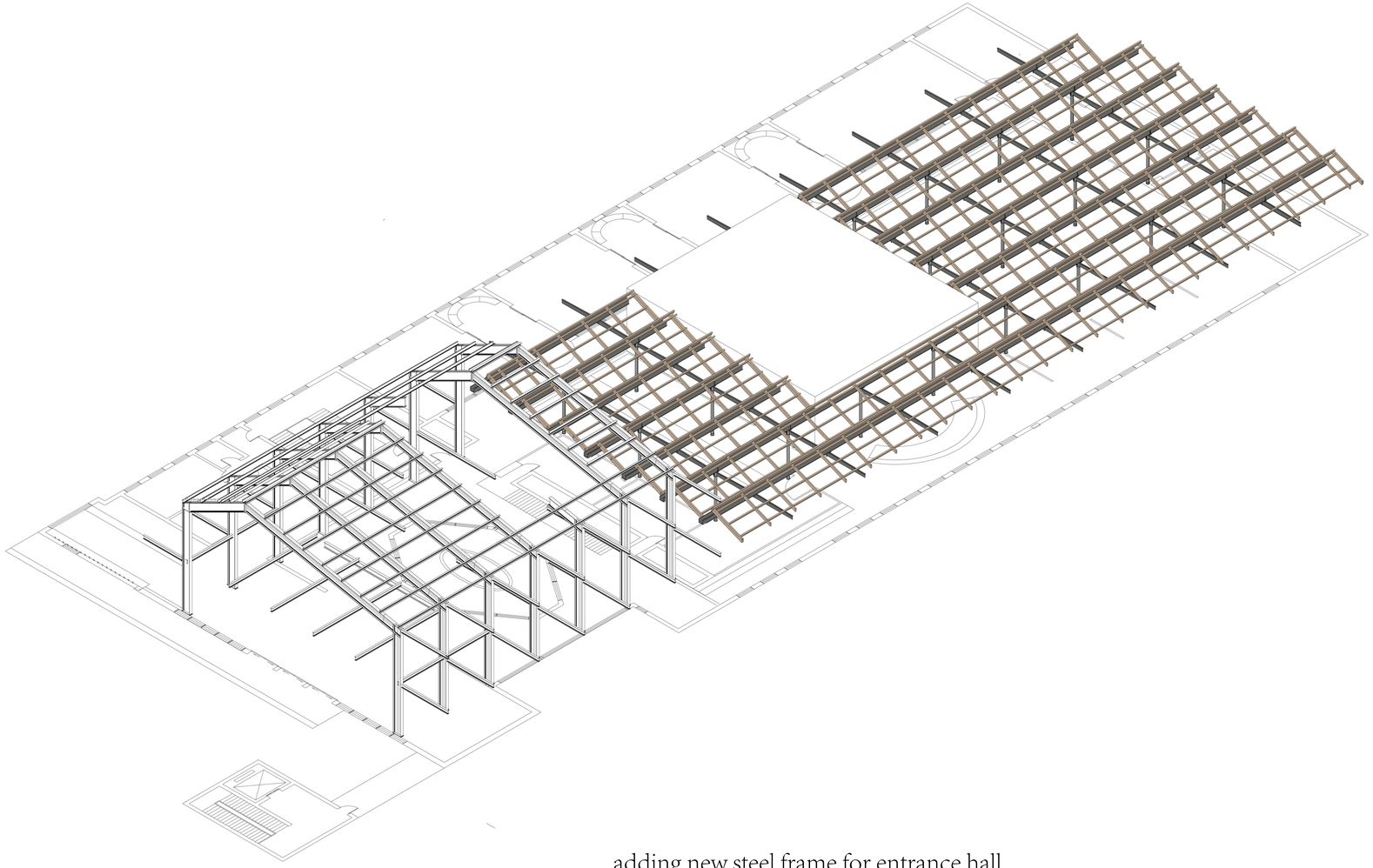
Site design
Museum design
Building technology



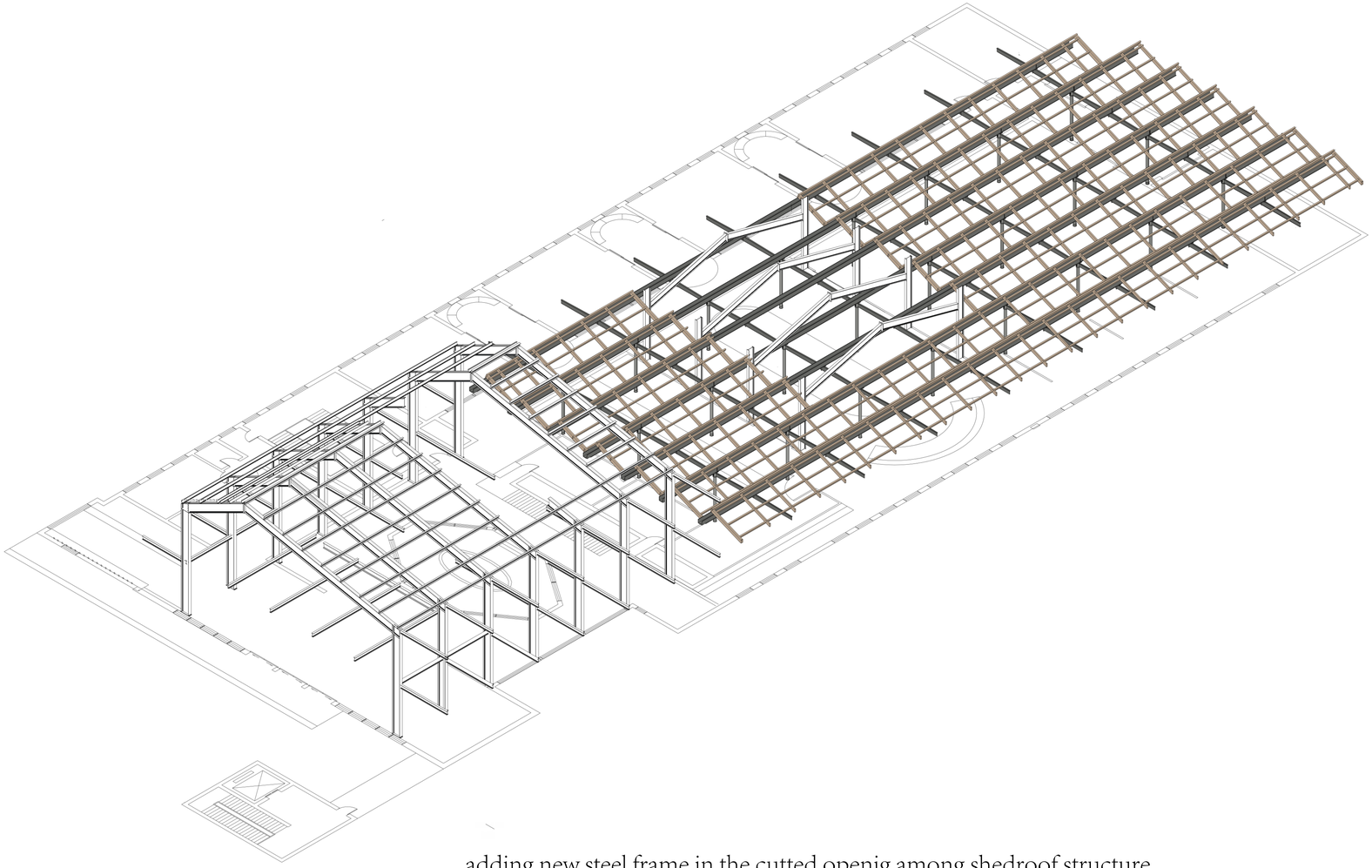




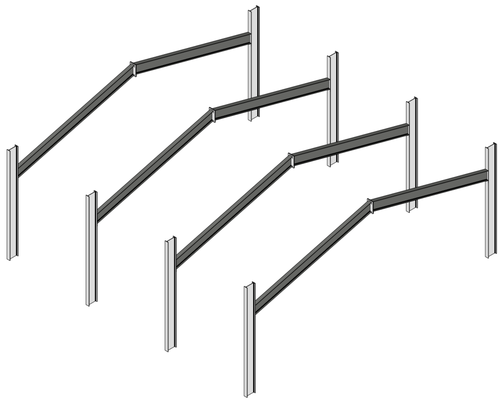
cutting off part of the exsiting shedroof structure



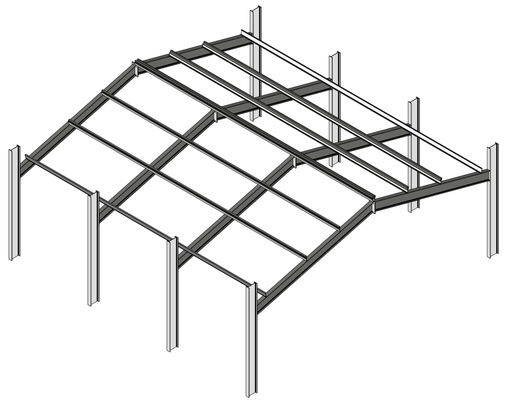
adding new steel frame for entrance hall



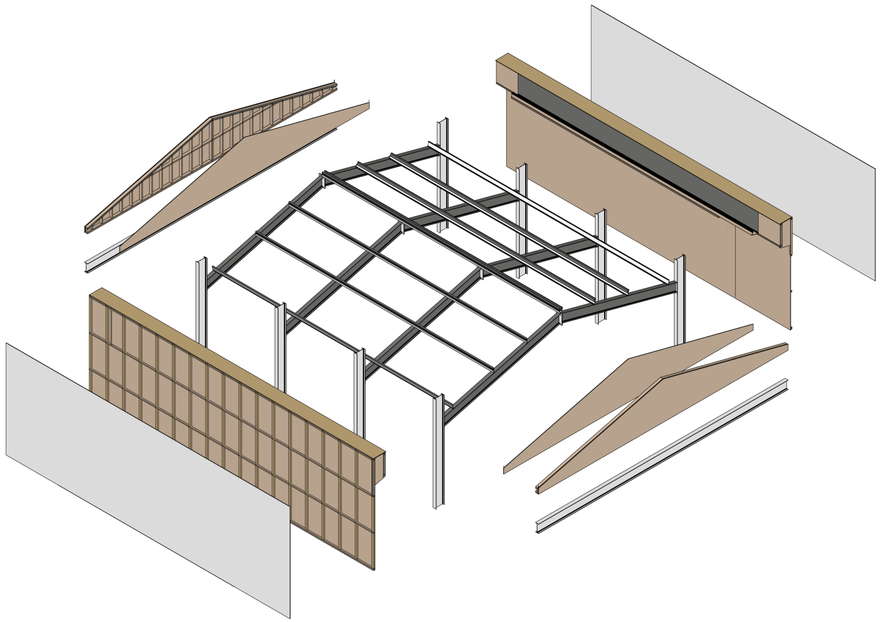
adding new steel frame in the cutted openig among shedroof structure



Step 1

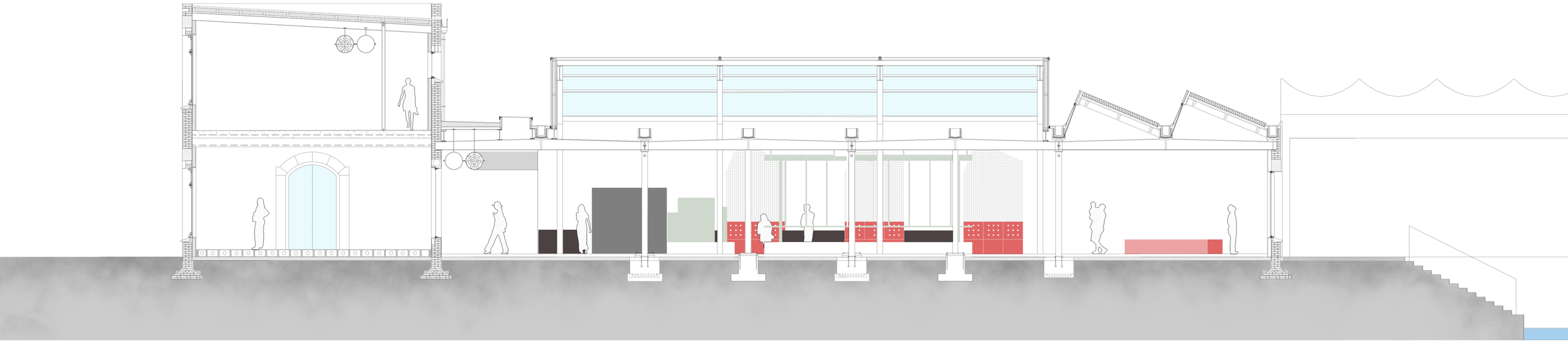


Step 2

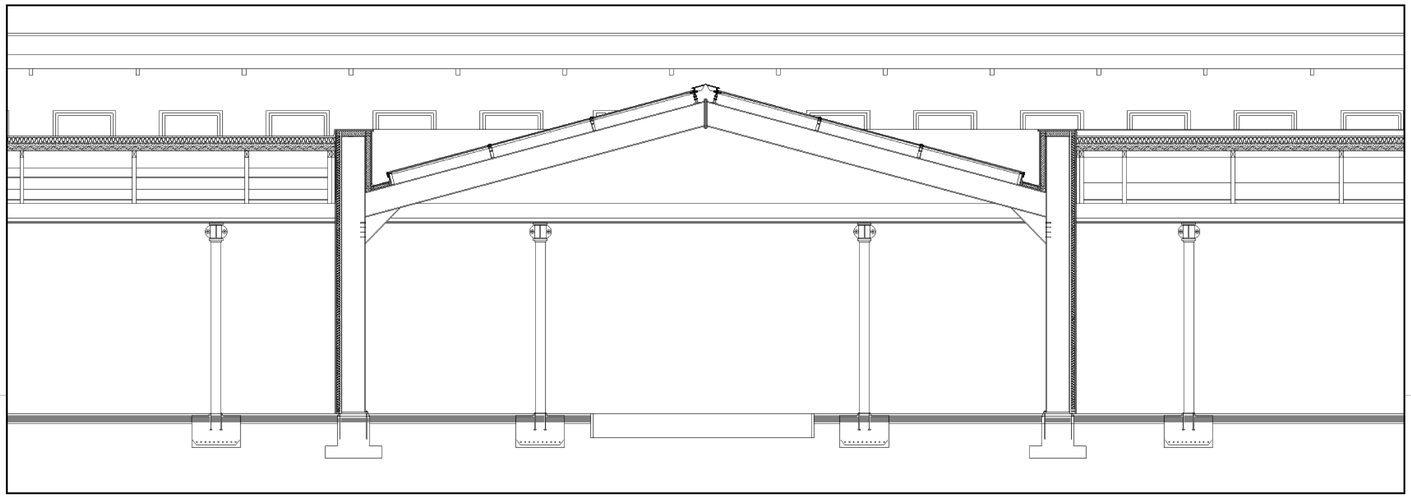


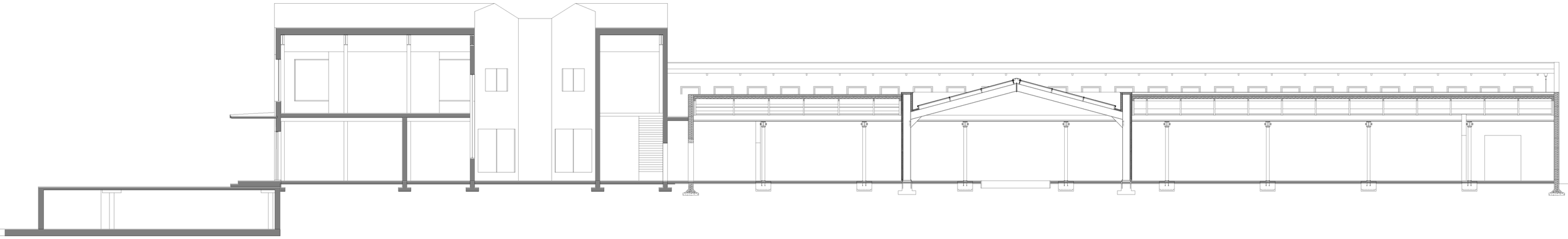
Step 3

for the new mid-hall structure

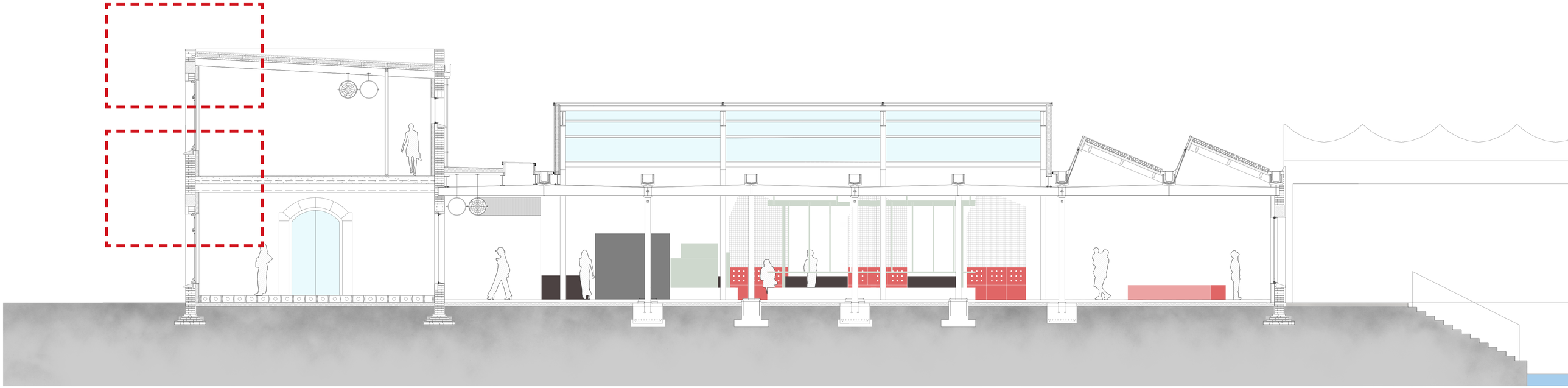


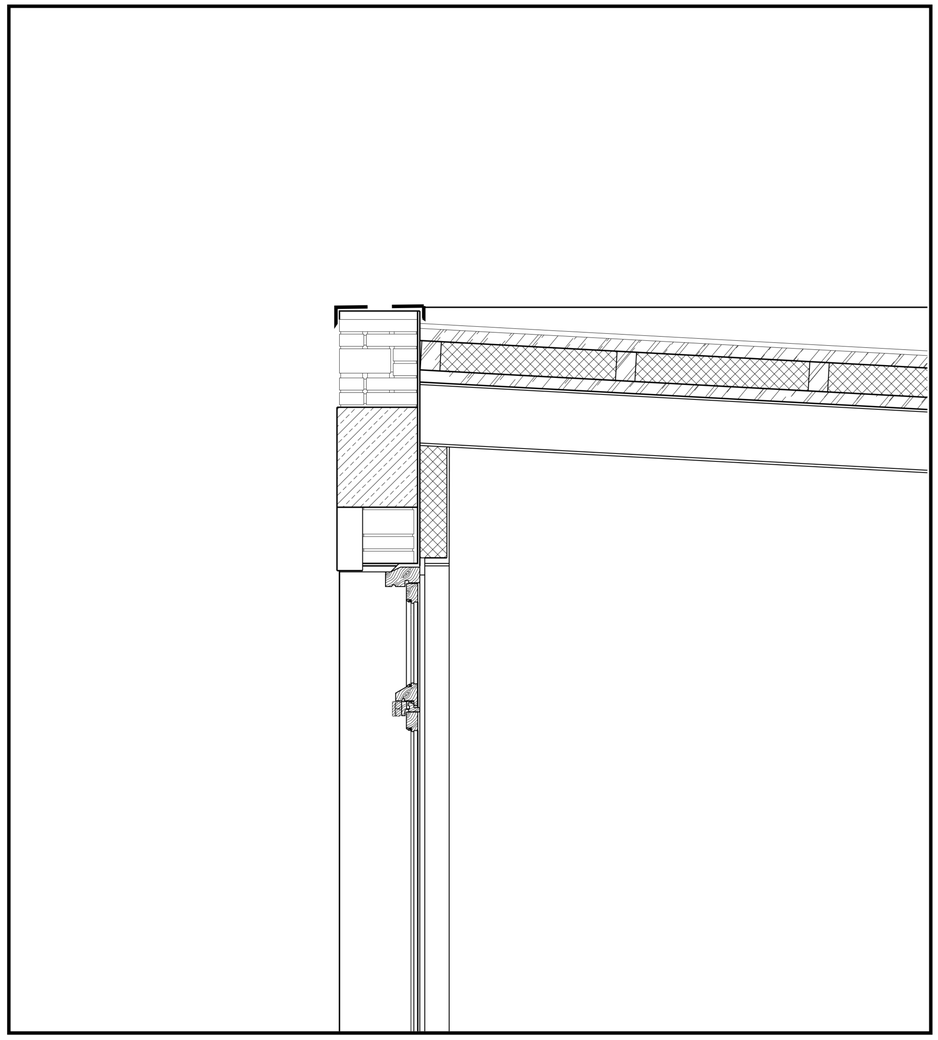
section A

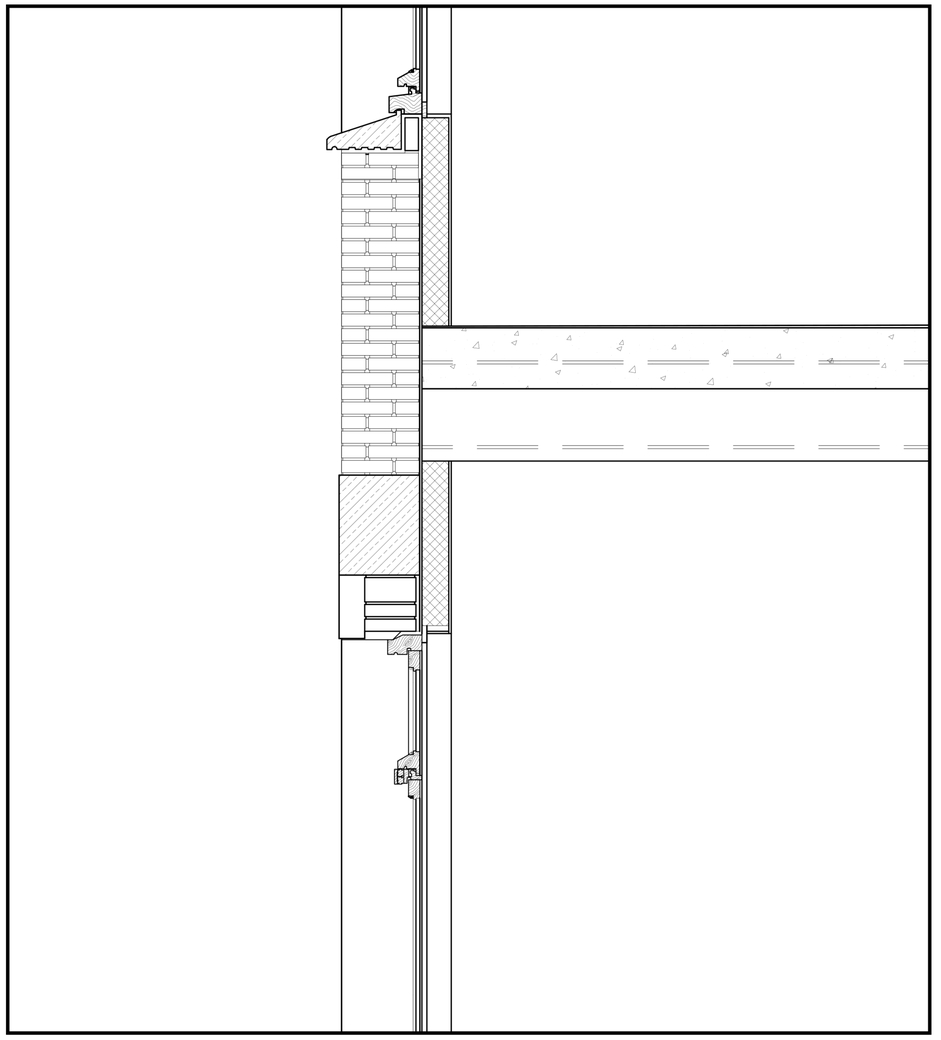


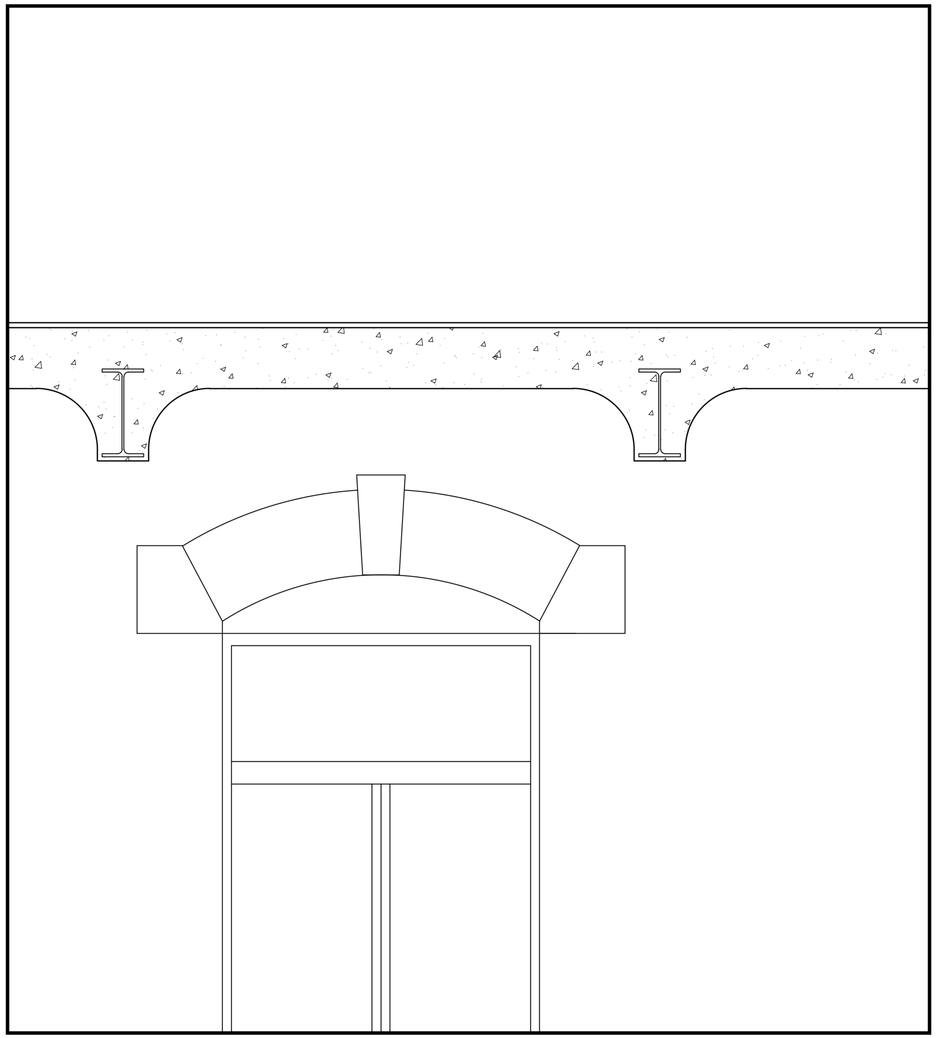


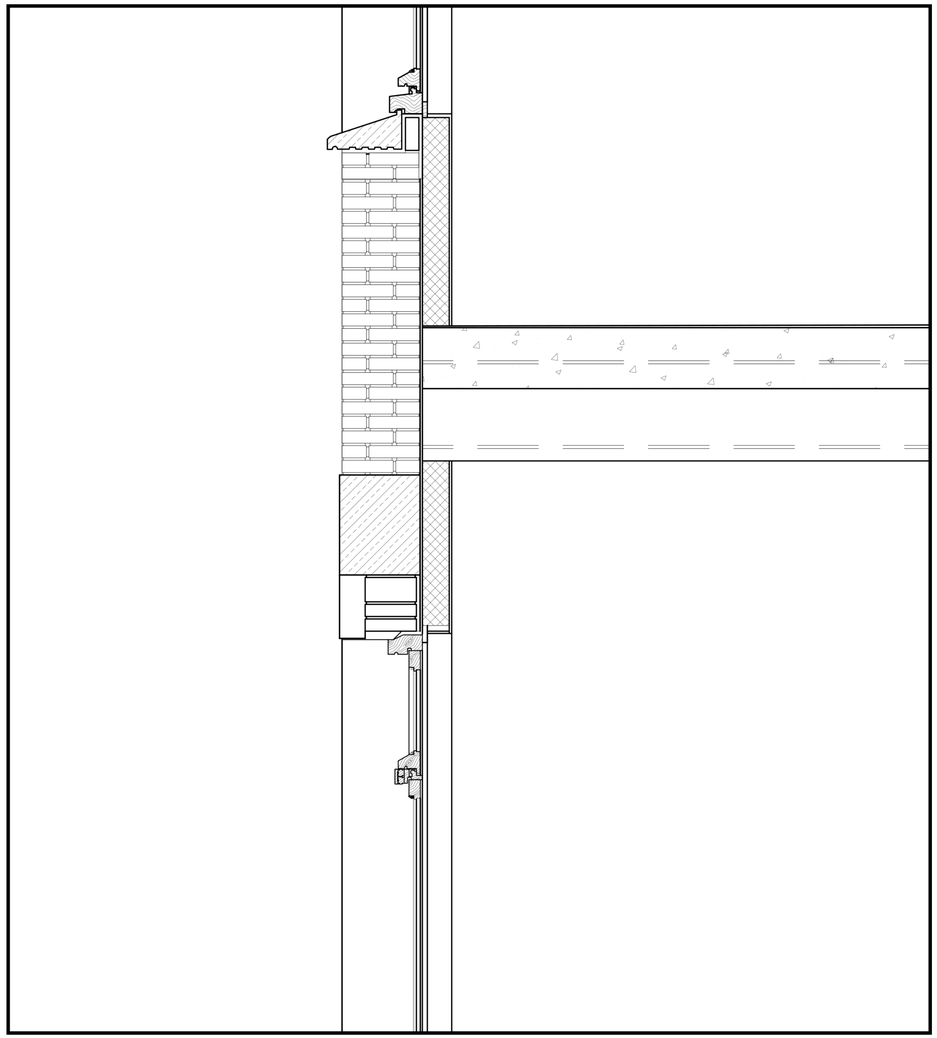
section B

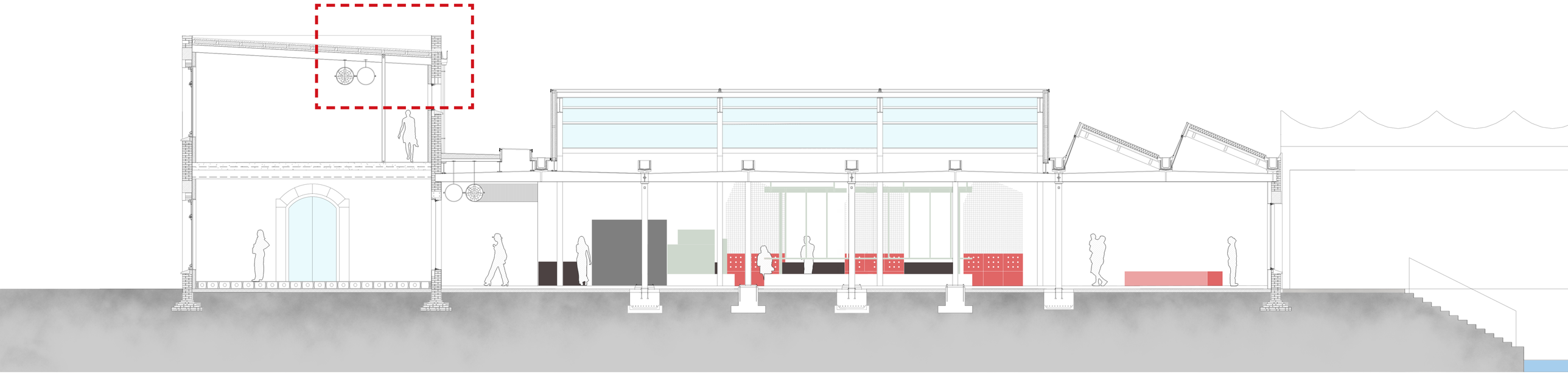


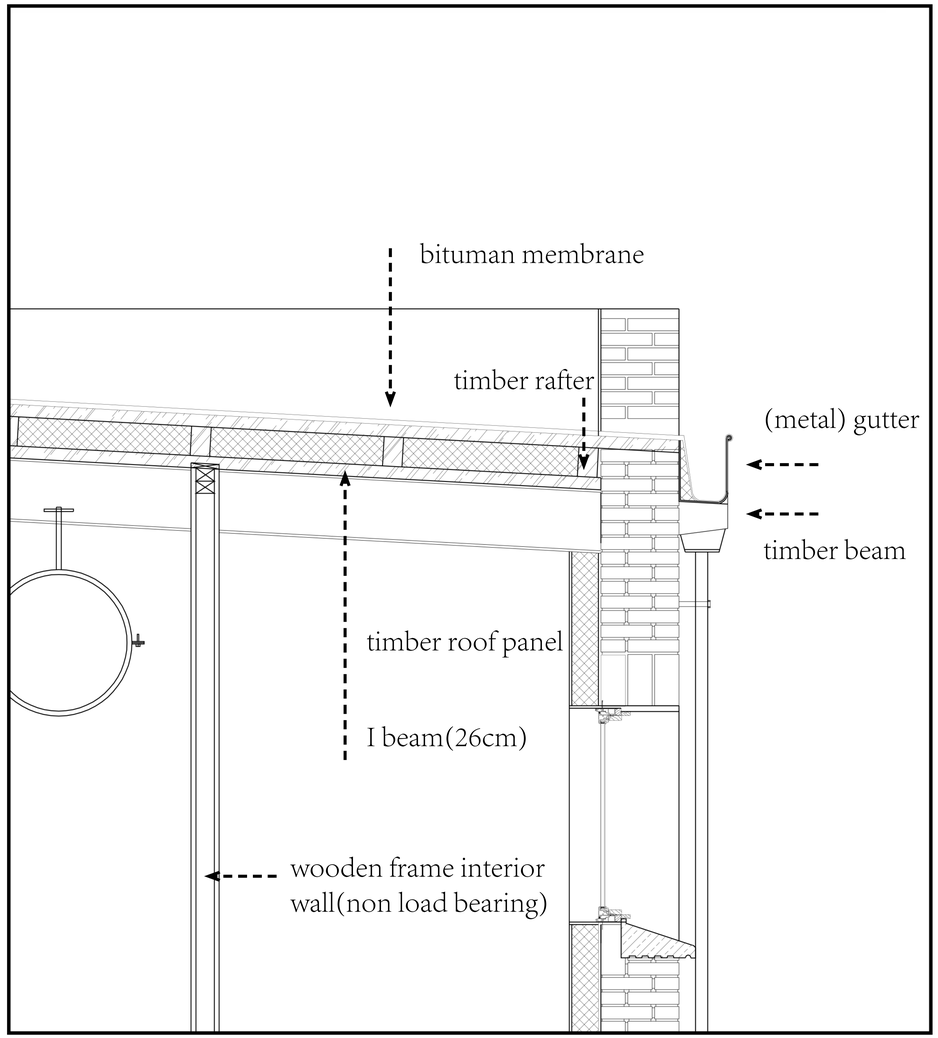


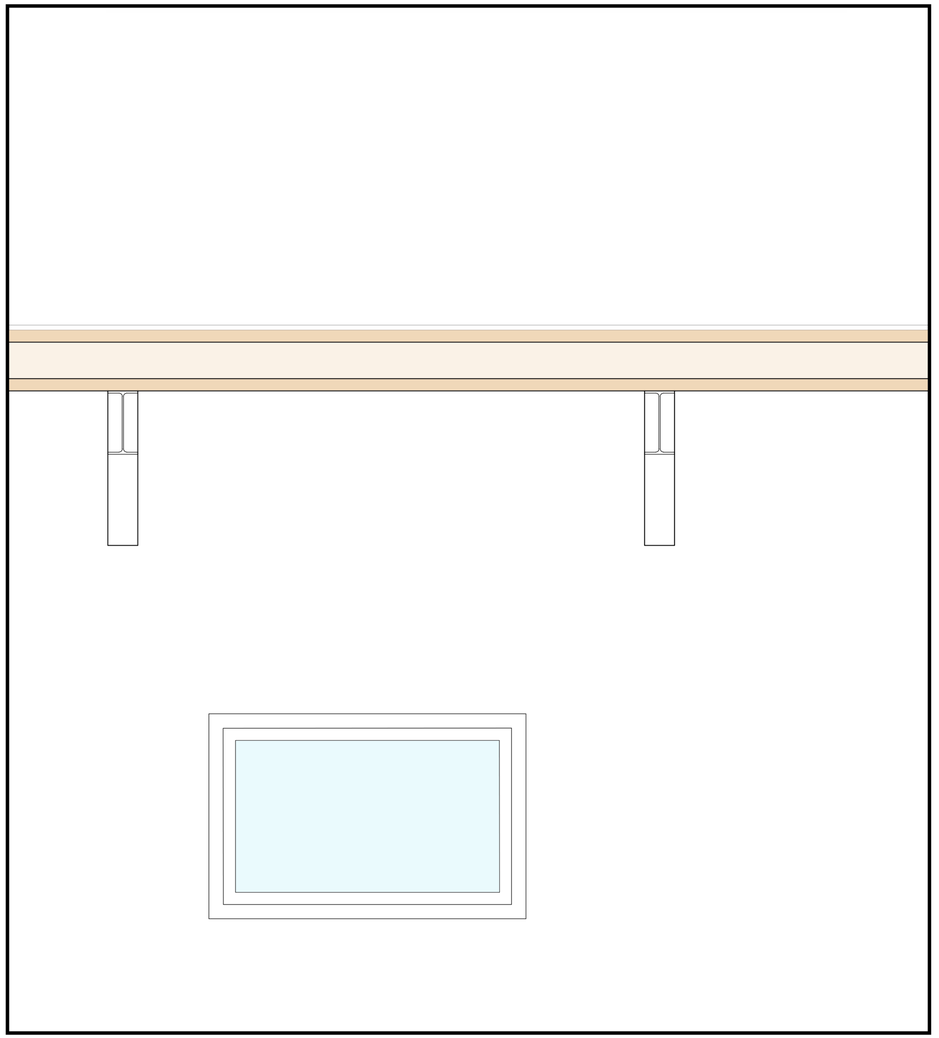


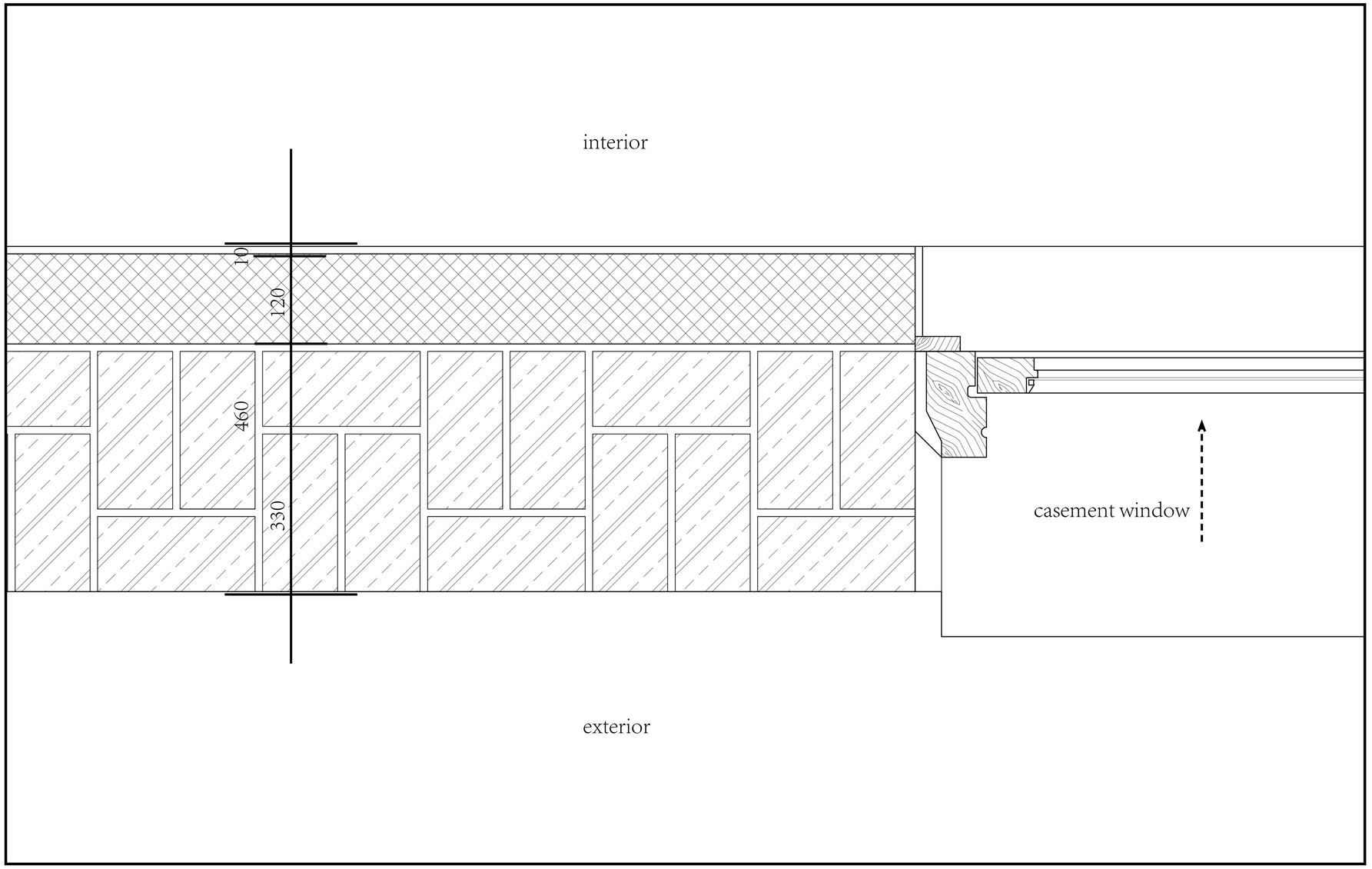


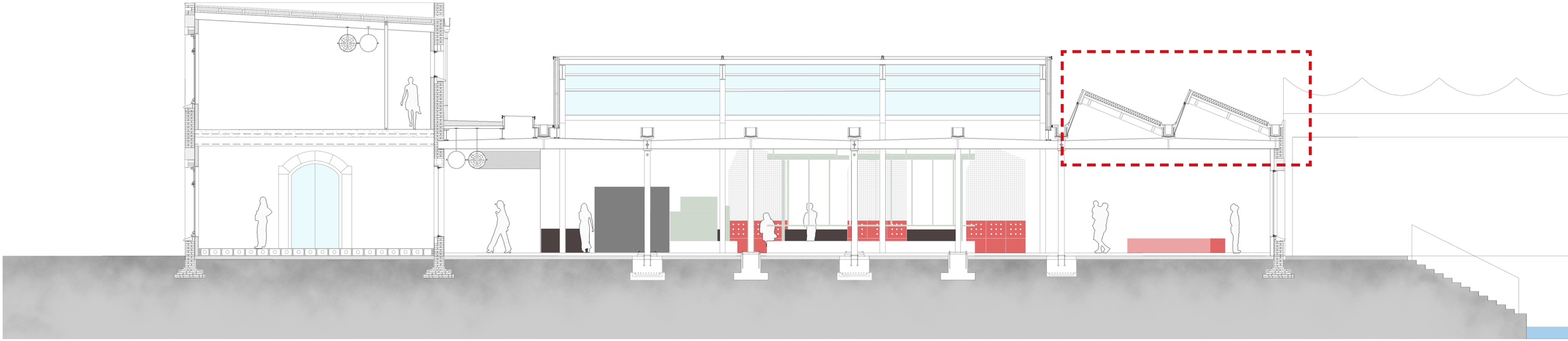




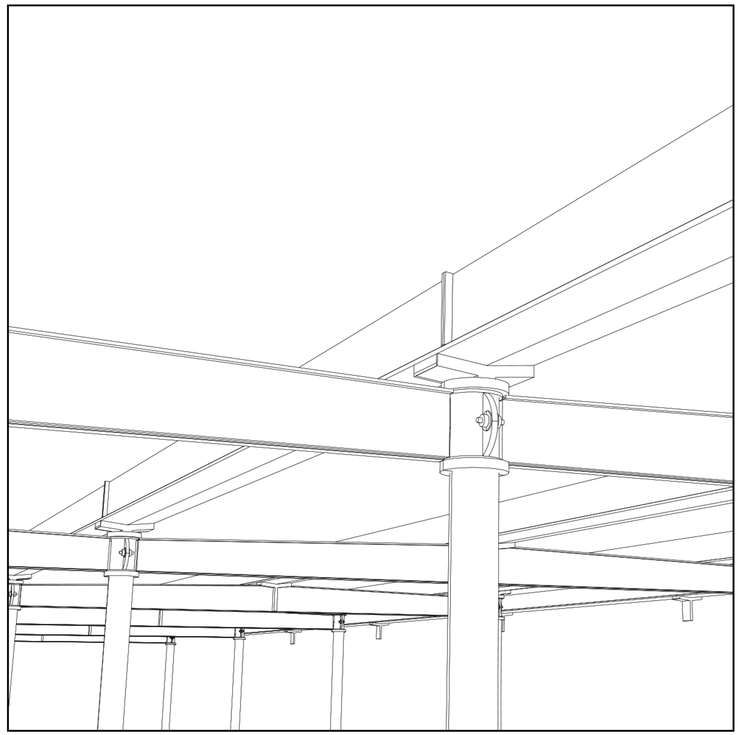

bituman membrane
timber rafter
(metal) gutter
timber beam
timber roof panel
I beam(26cm)
wooden frame interior
wall(non load bearing)

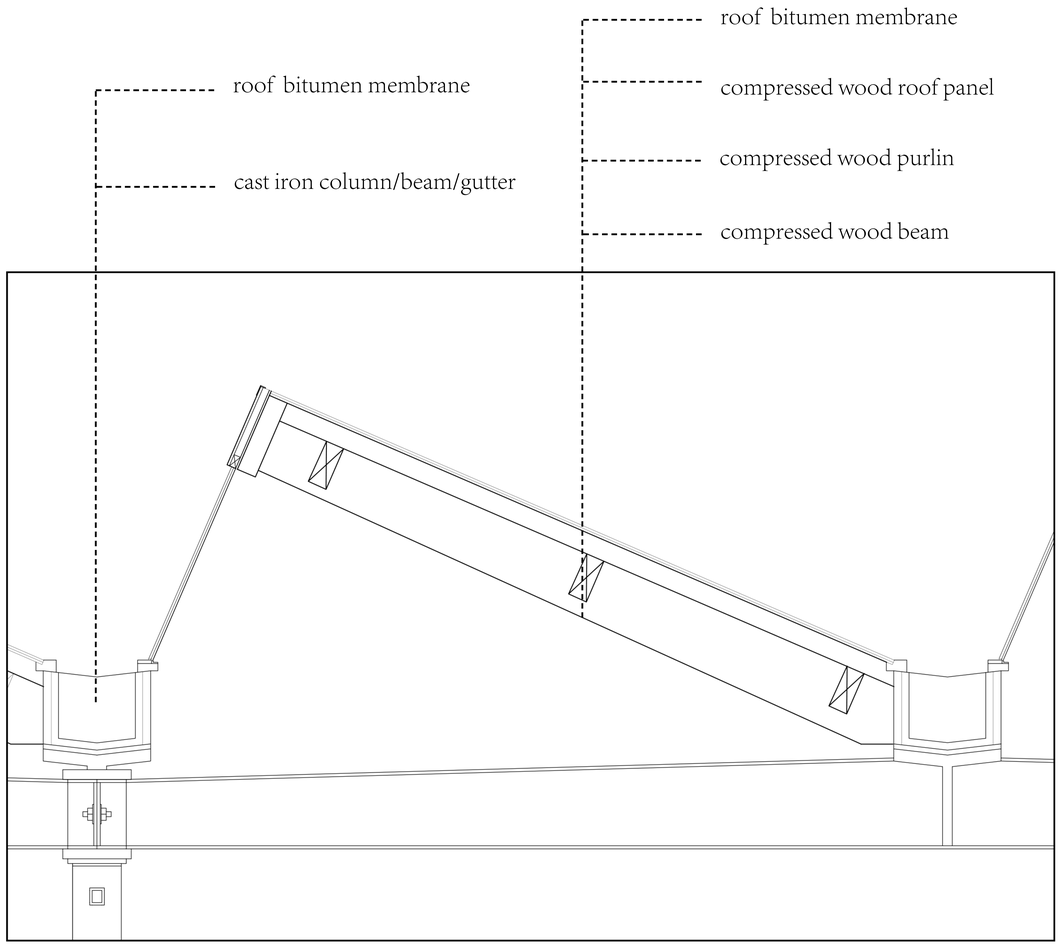



interior
10
120
460
330
casement window
exterior

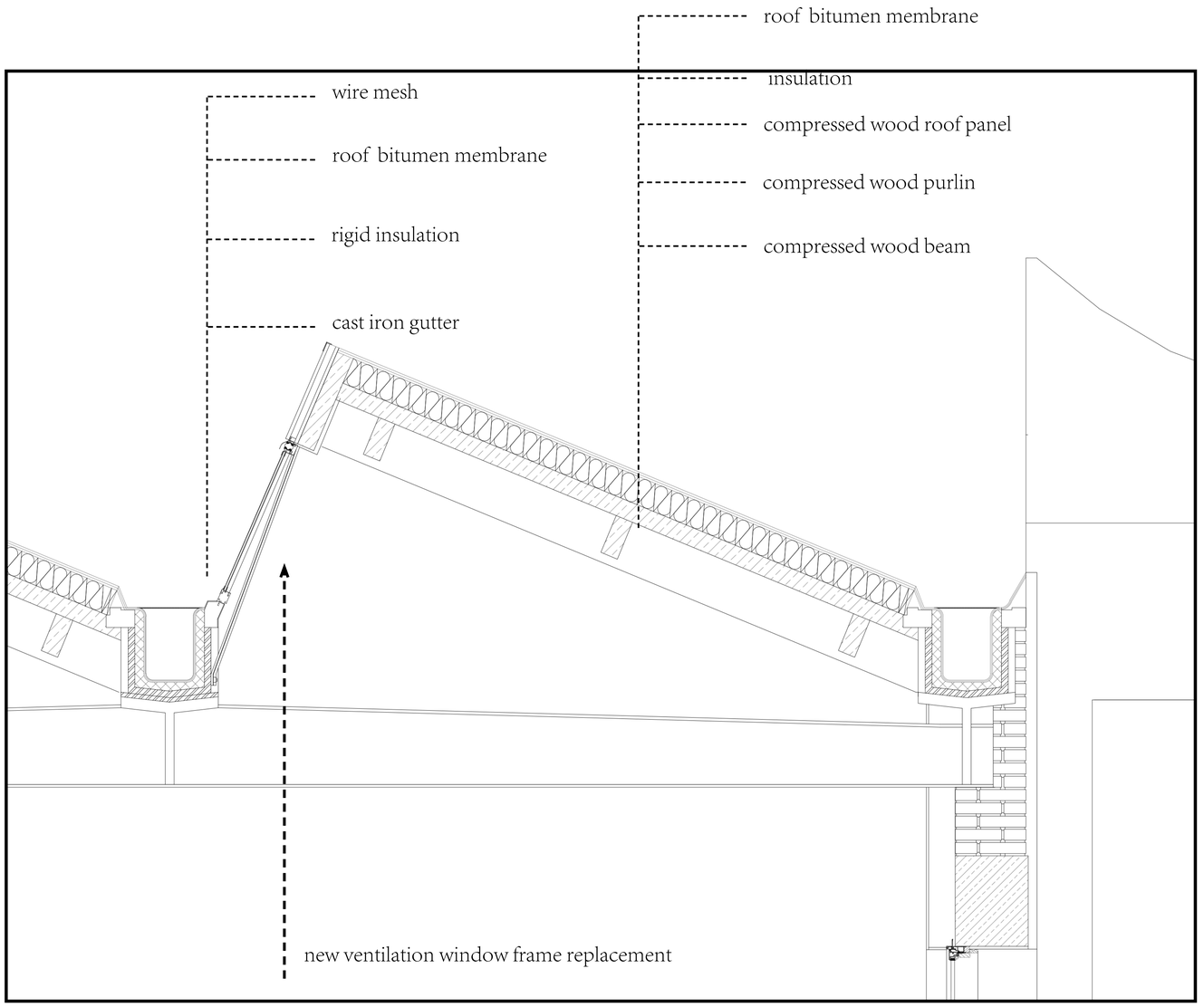




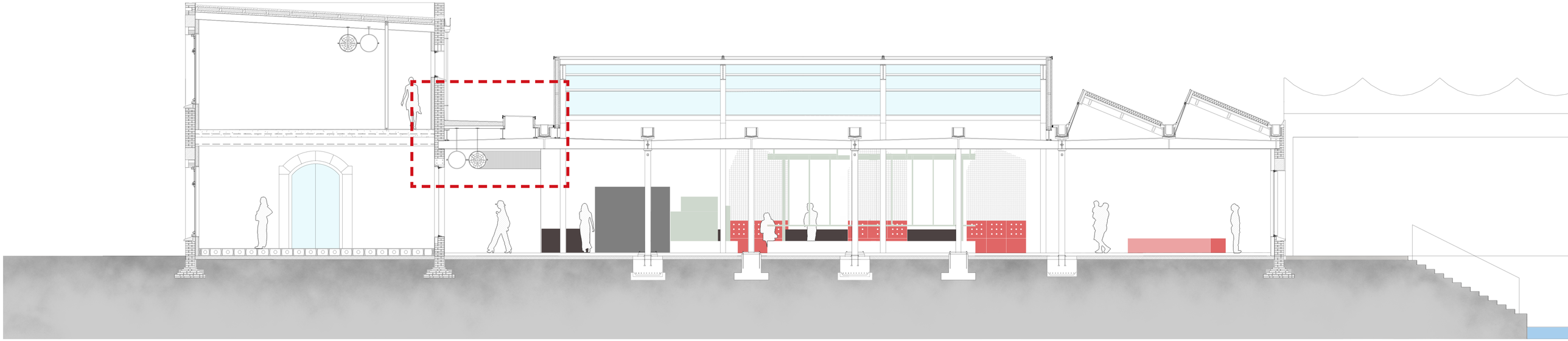


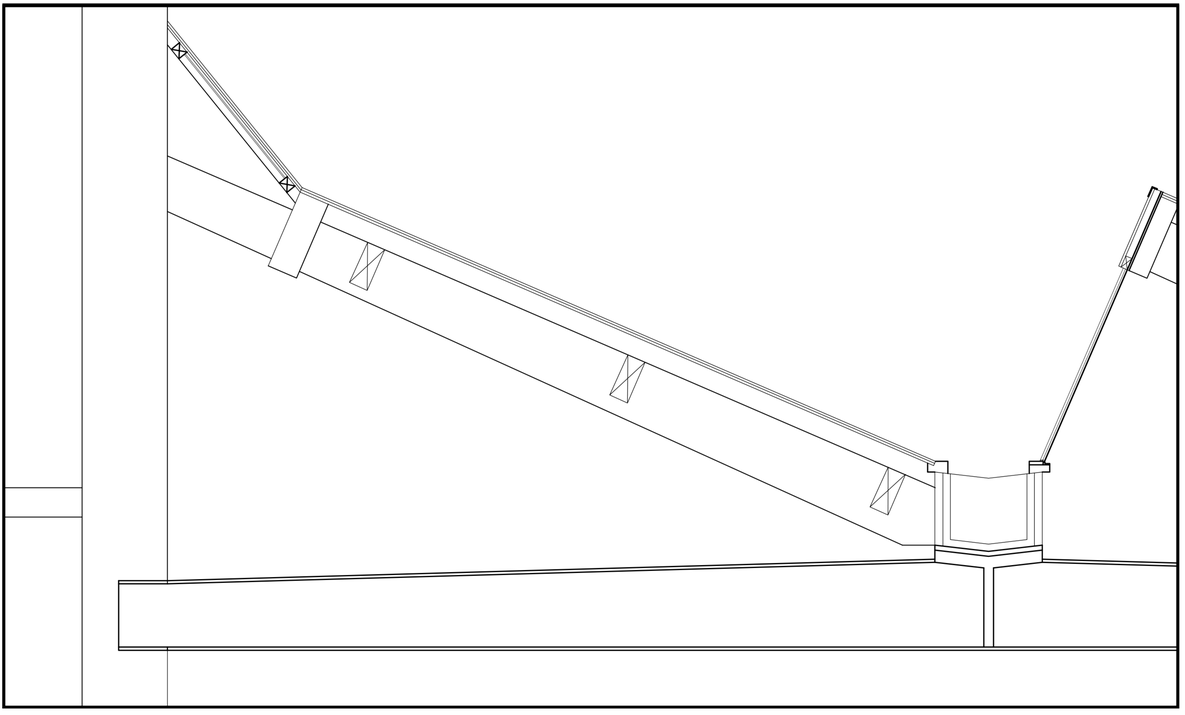


Original structure

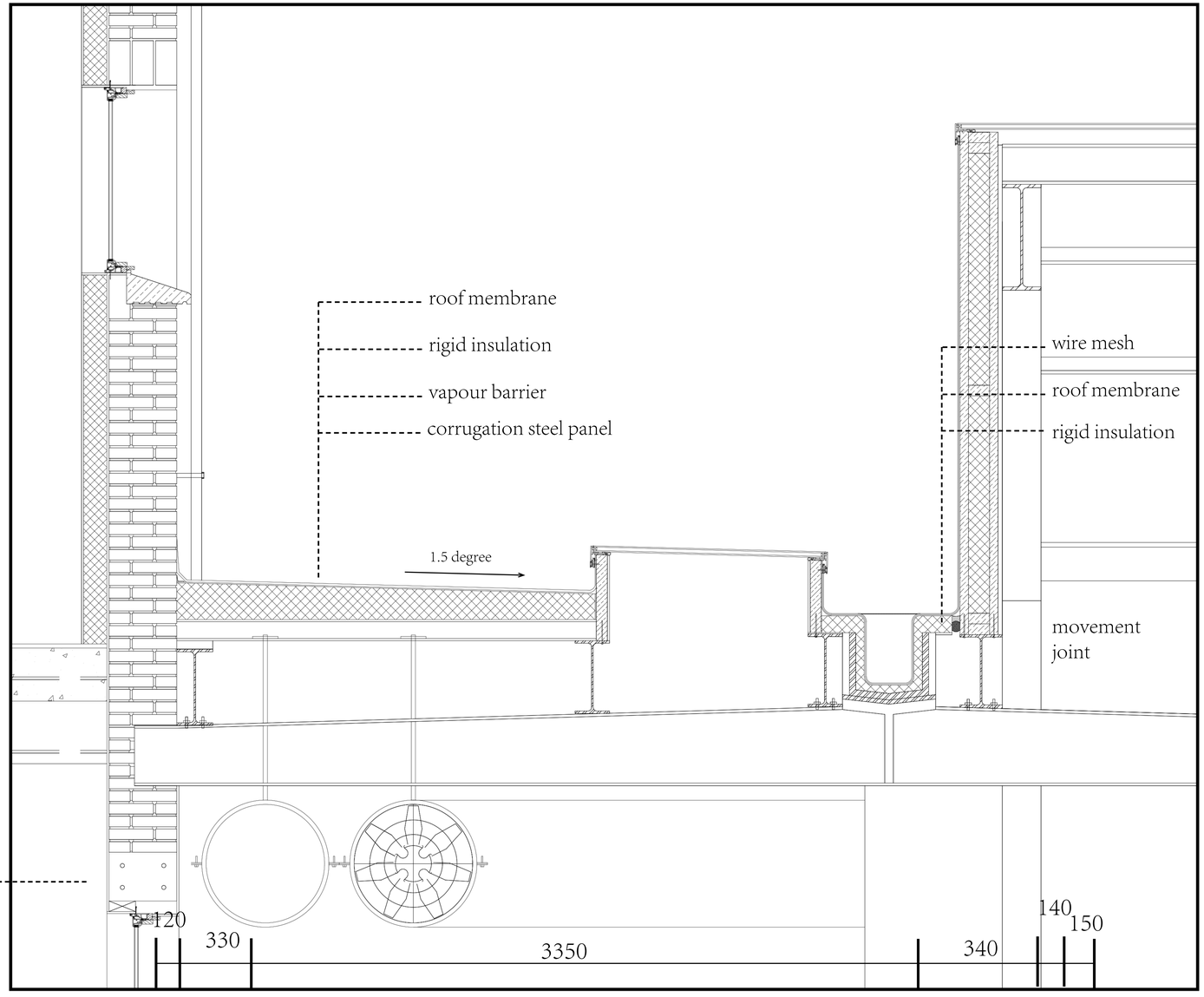


New structure



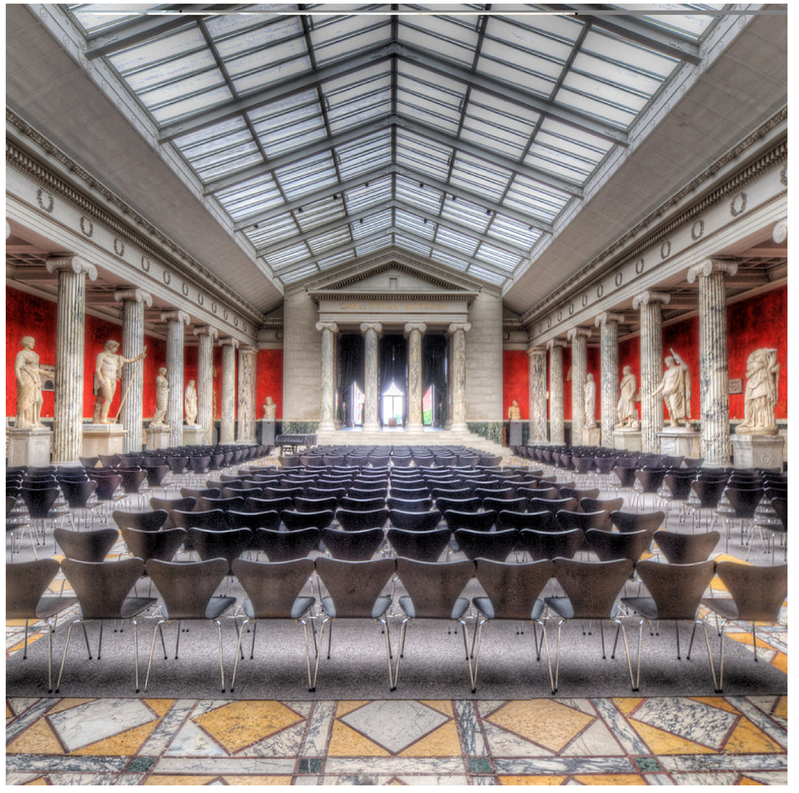


reinforced concrete lintel

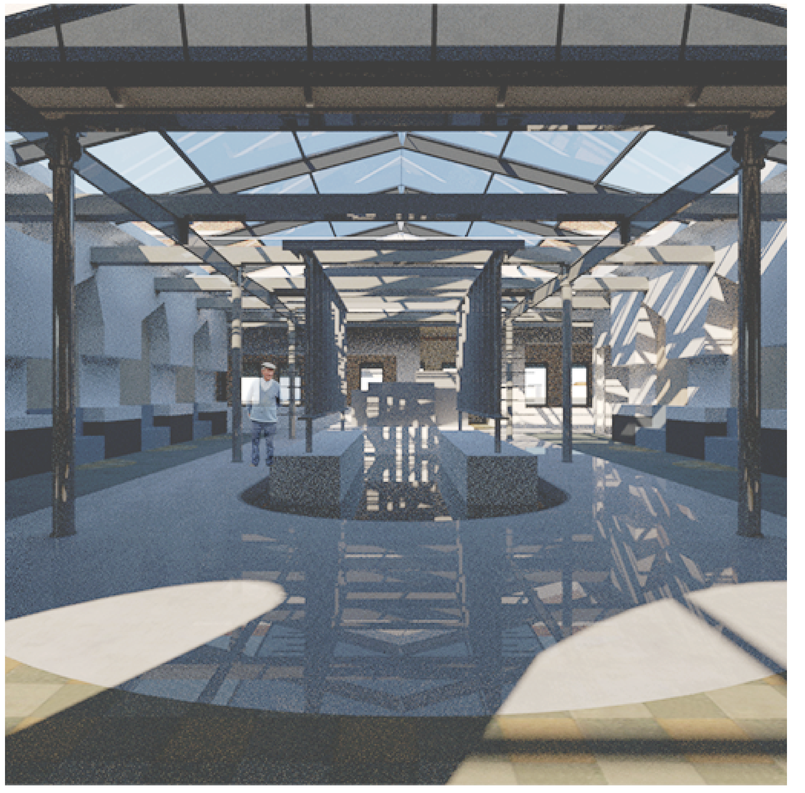


Original structure

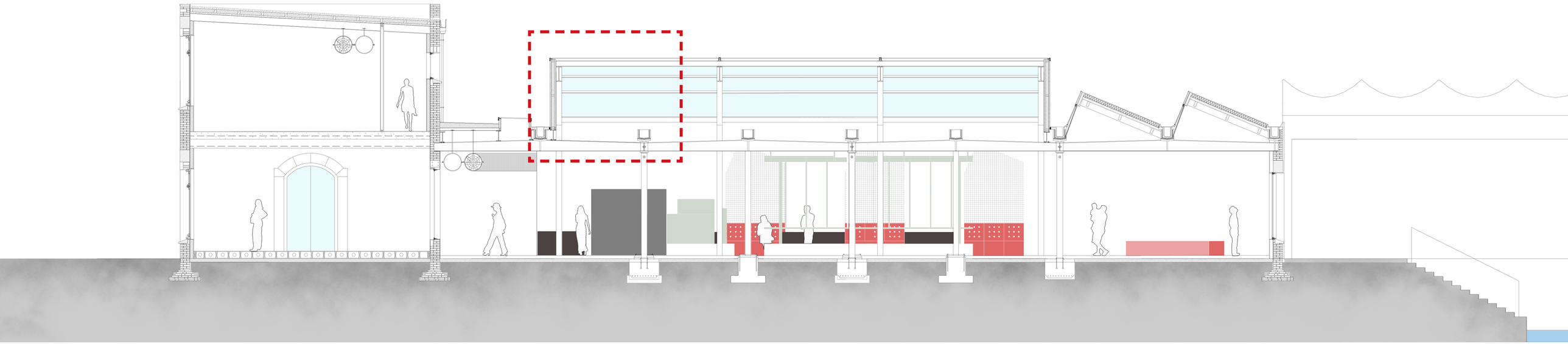
New structure

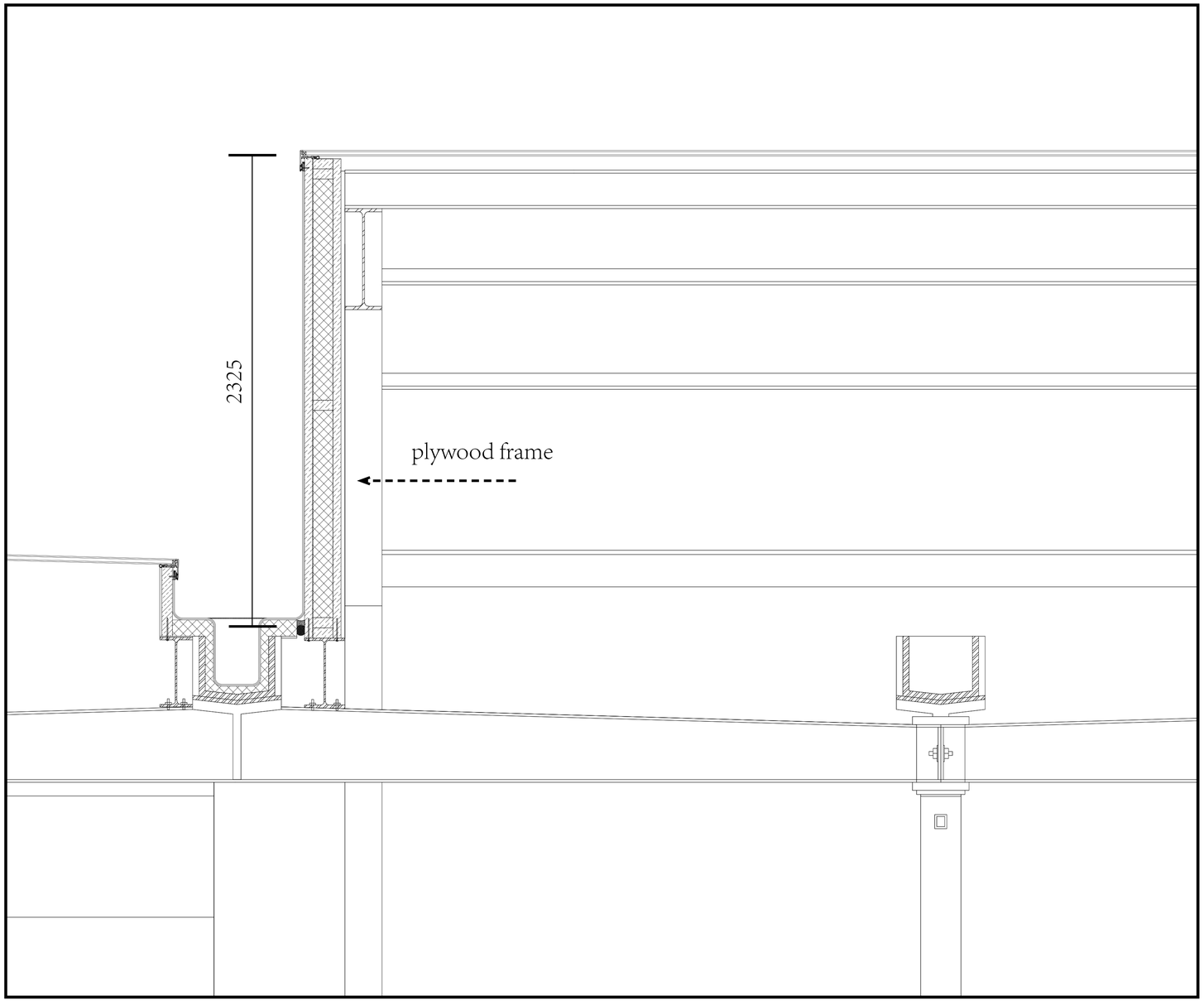


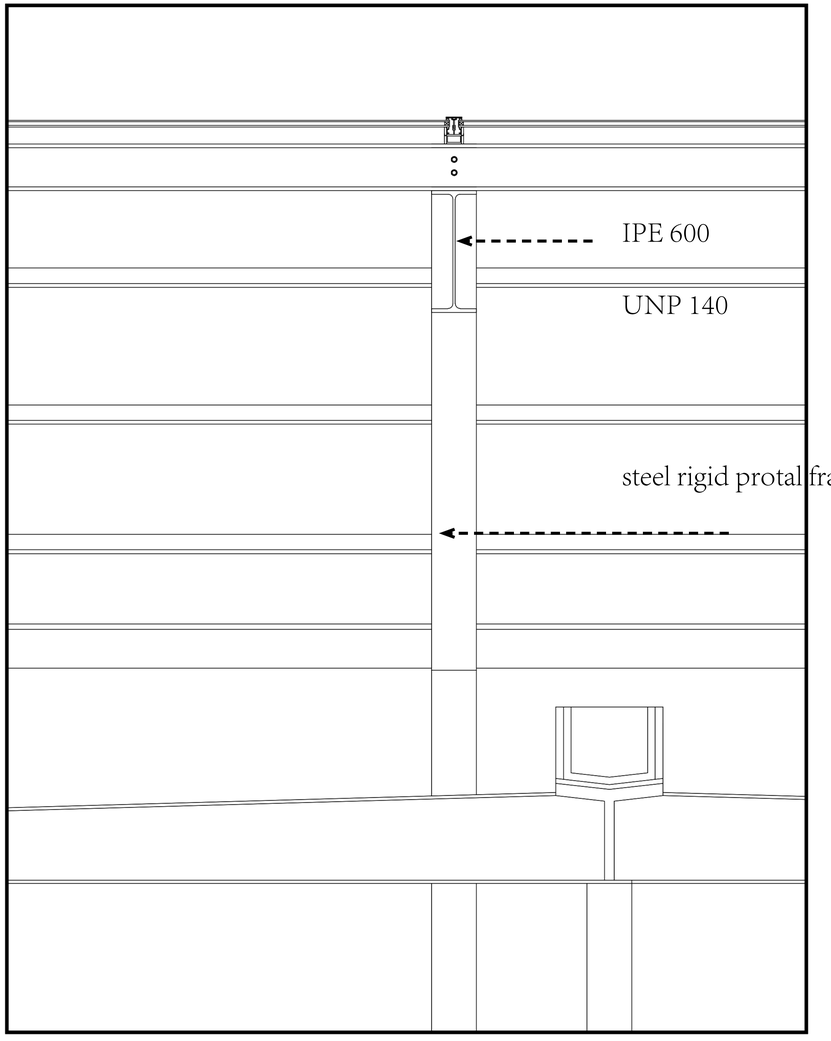
glyptoteket, copenhagen



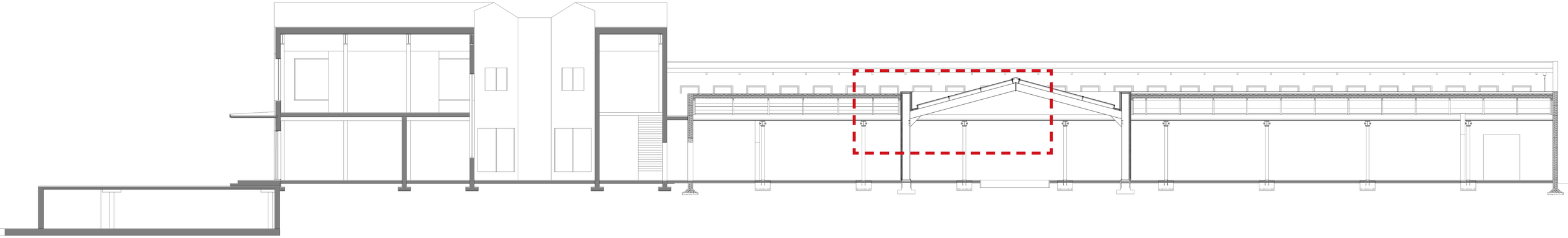
my proposal, winterswijk

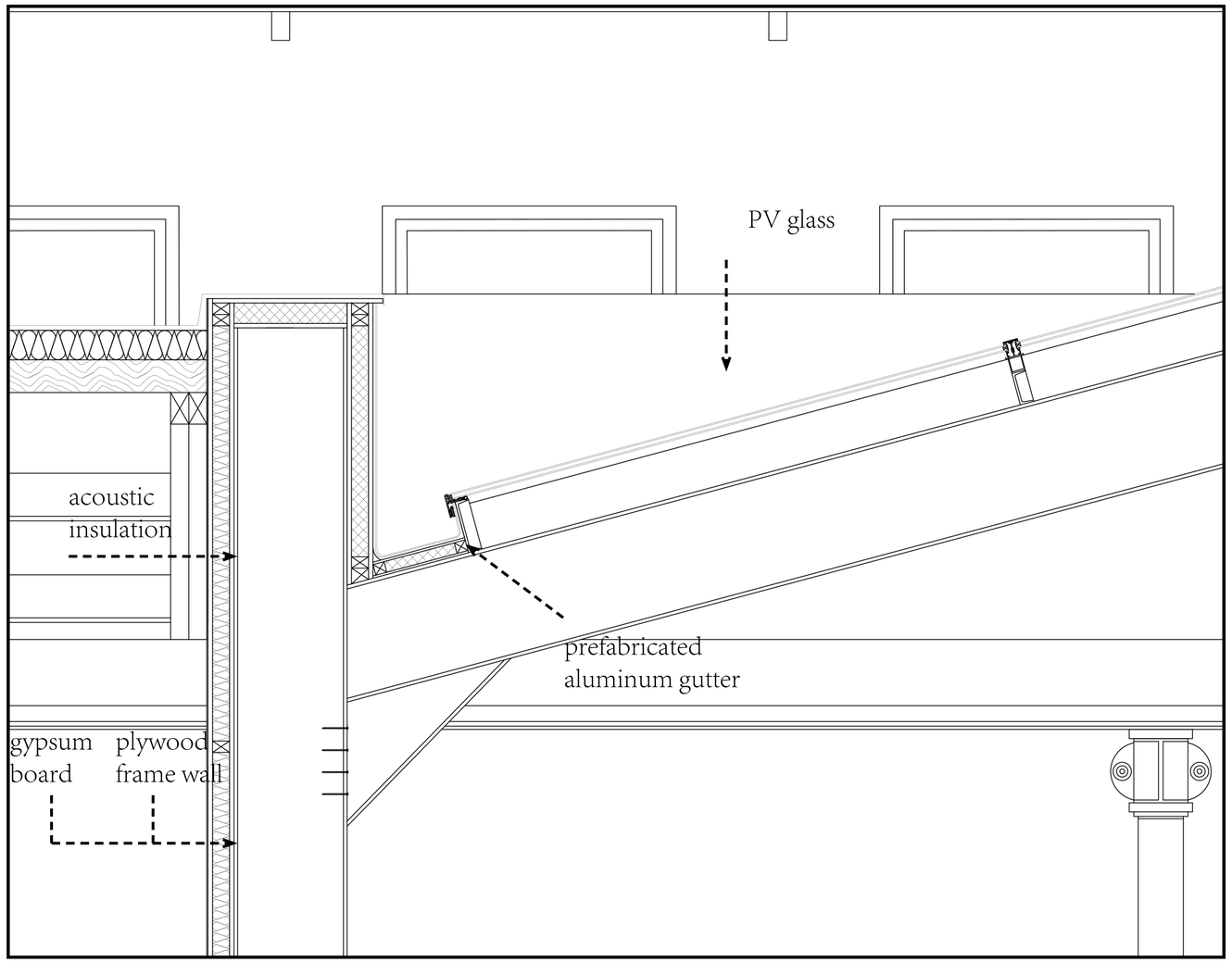


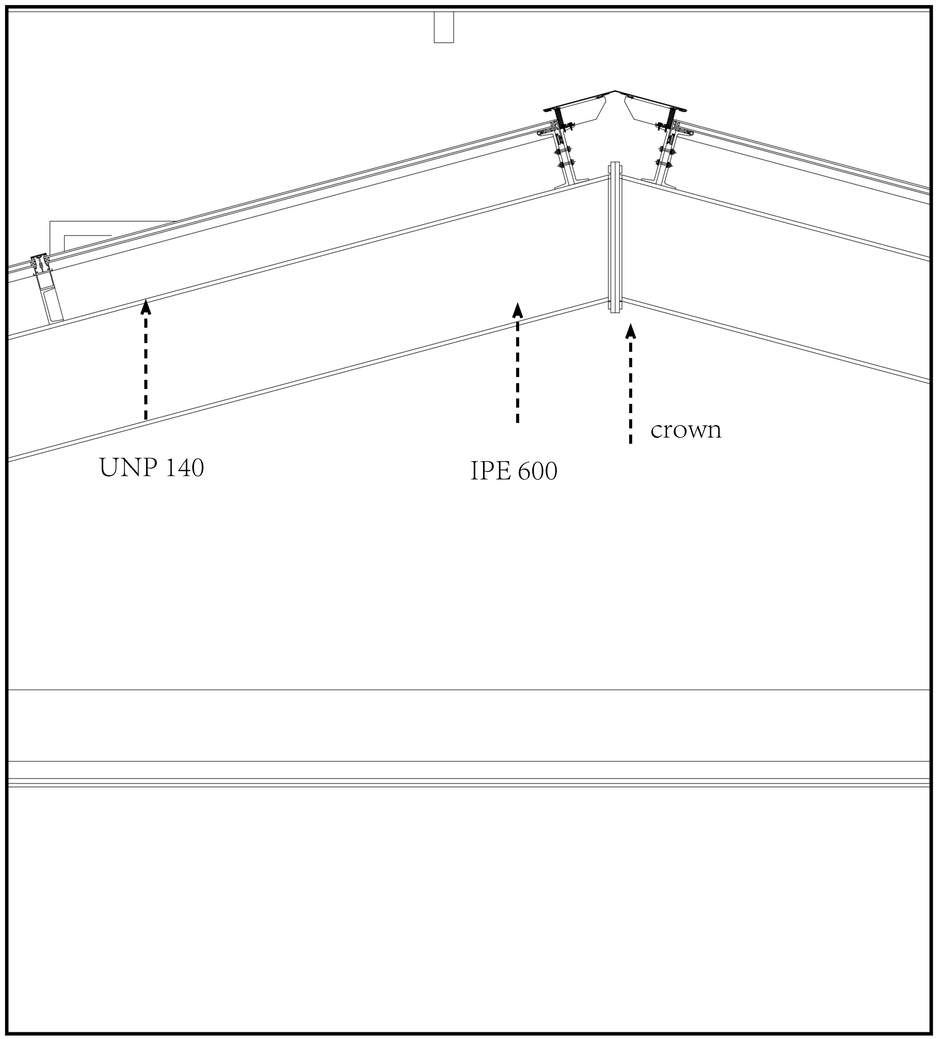


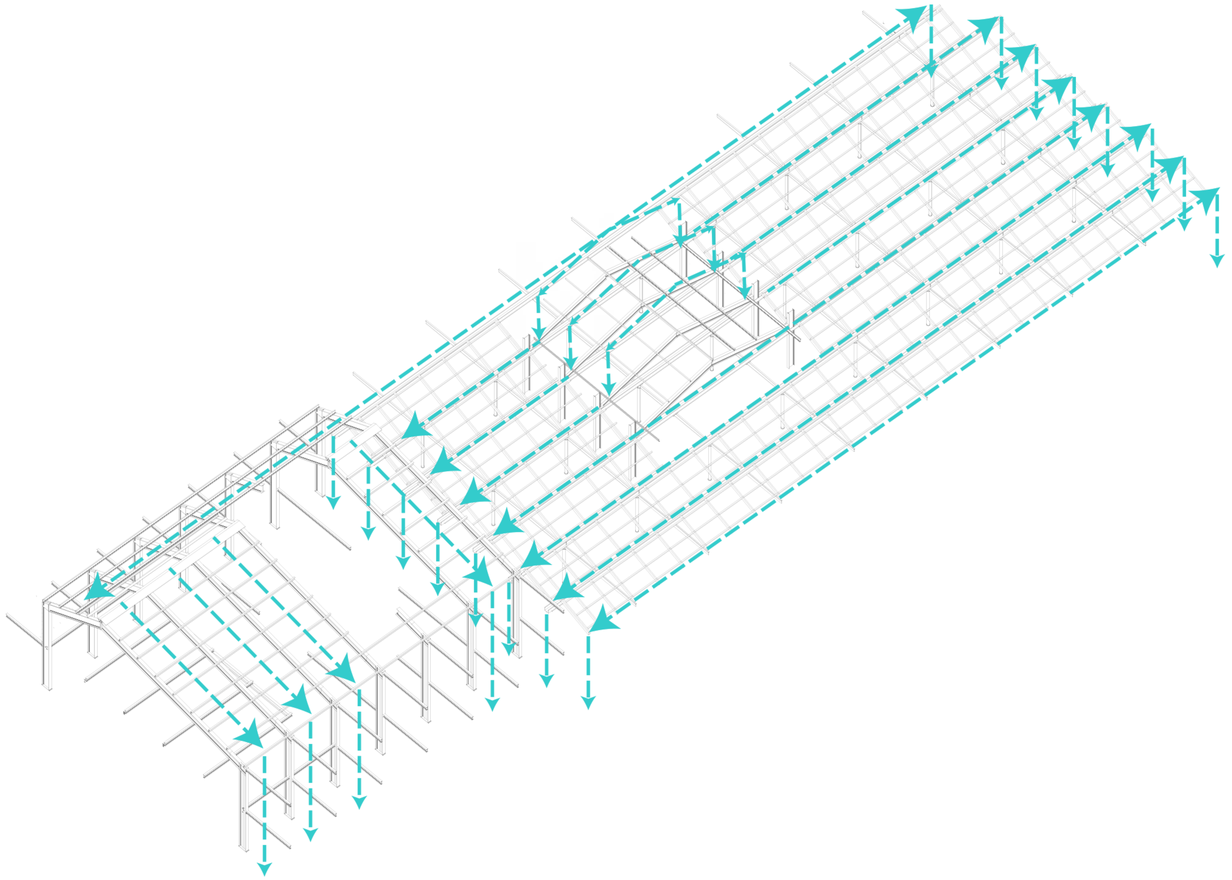


New skylight ridge roof structure




PV glass
acoustic
insulation
prefabricated
aluminum gutter
gypsum
board
plywood
frame wall


UNP 140
IPE 600
crown

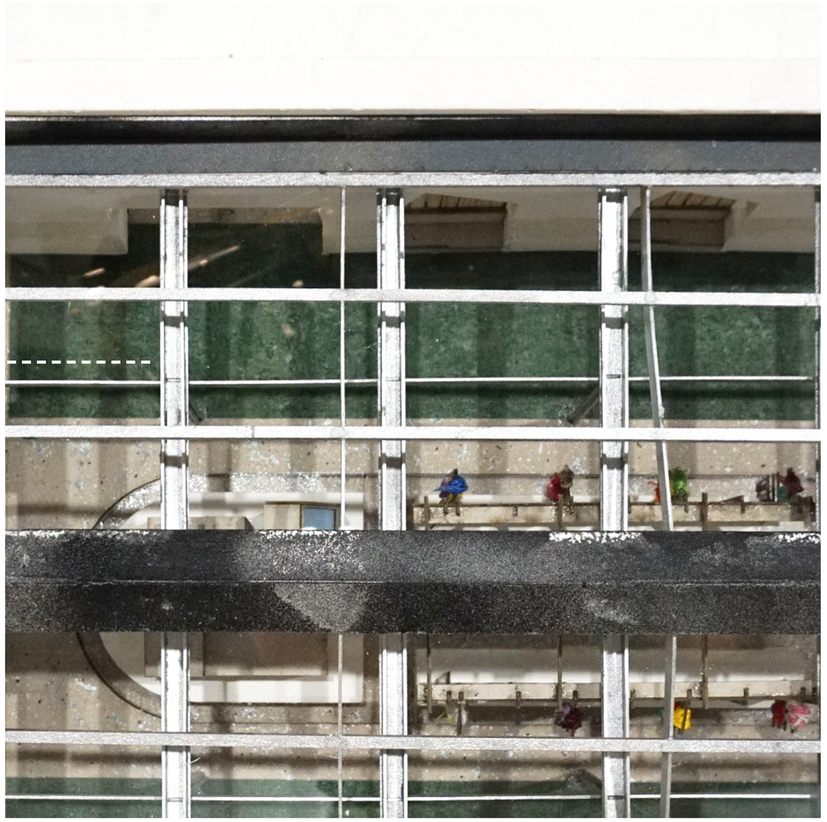


gutter system overview

new gutter

exsiting gutter

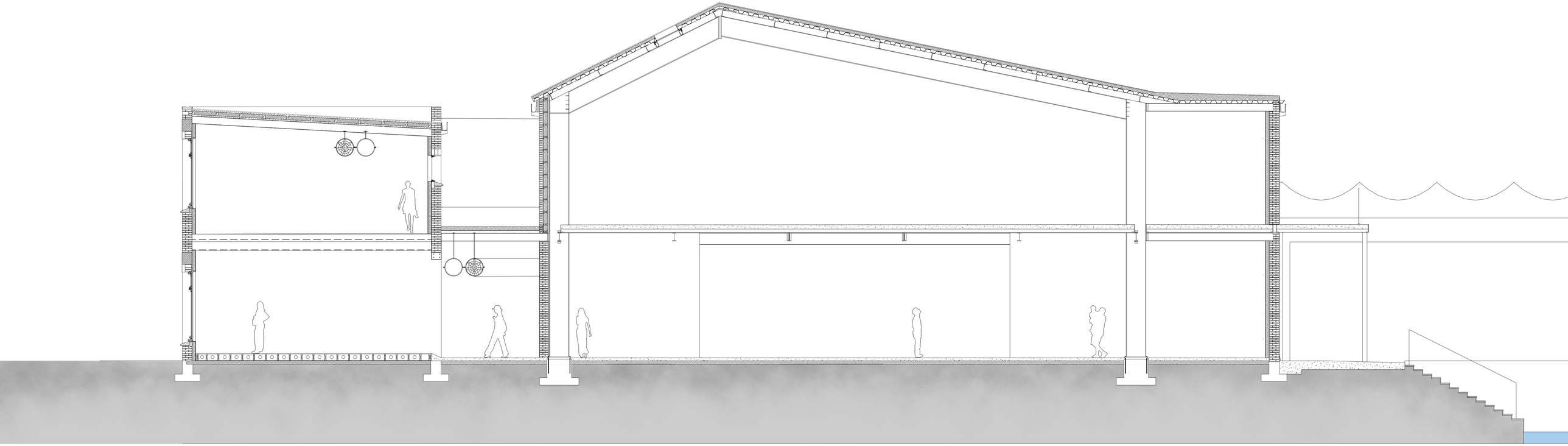
crown



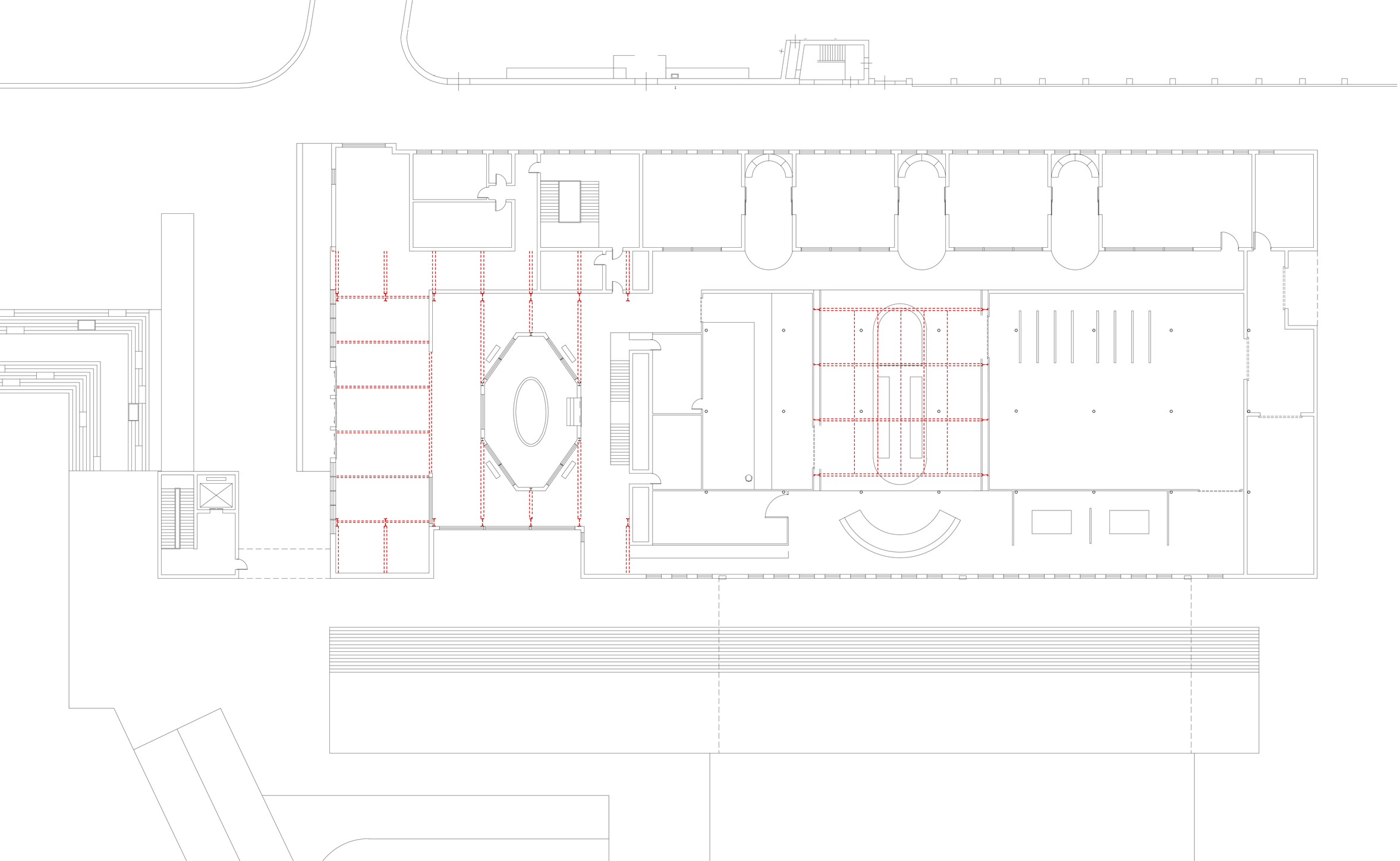
modeling picture from roof view

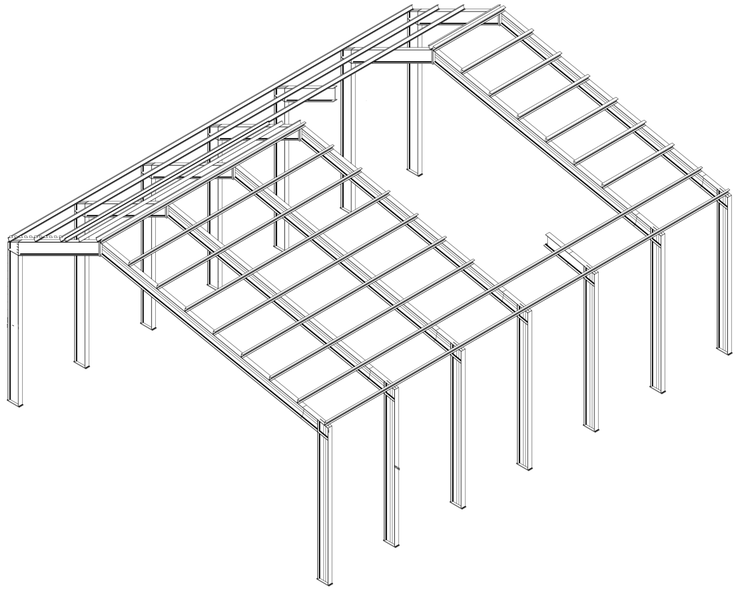


modeling picture

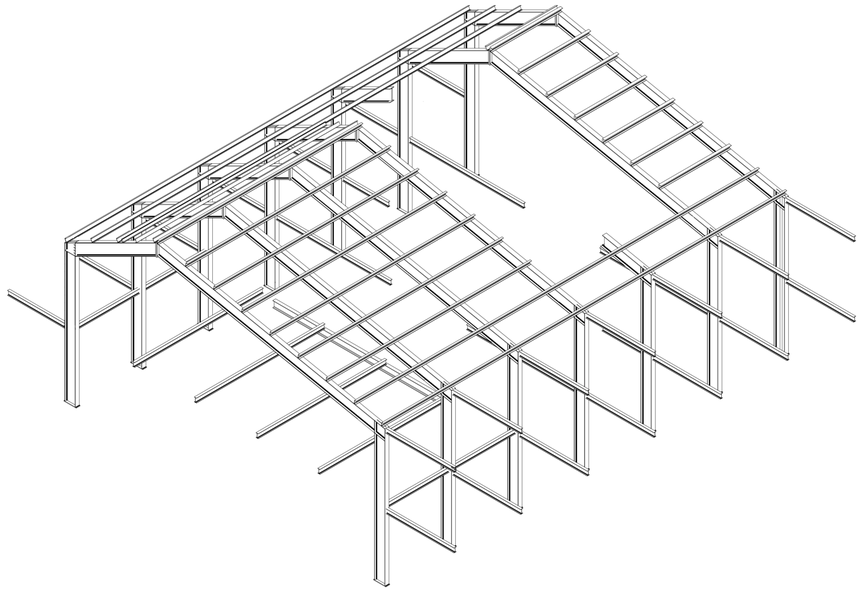


section C

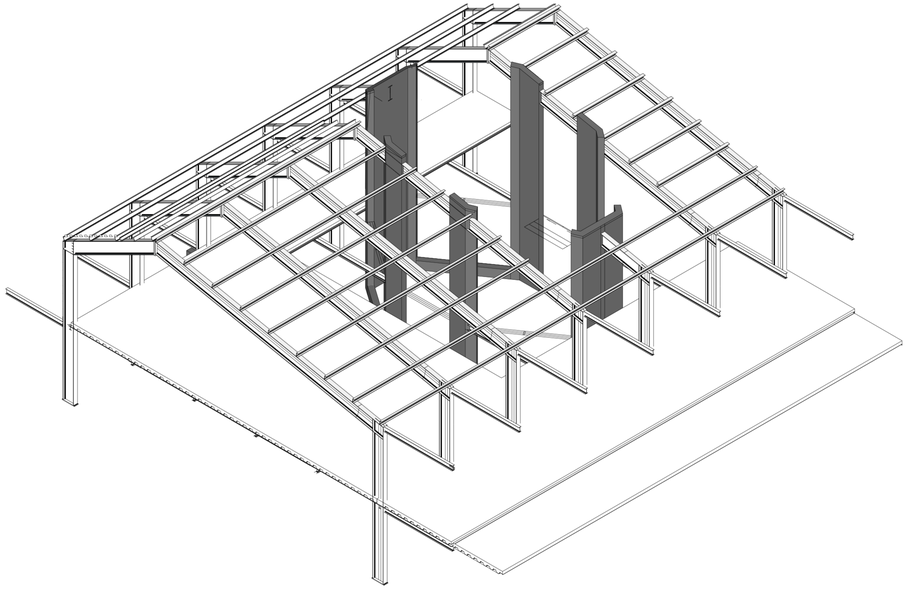




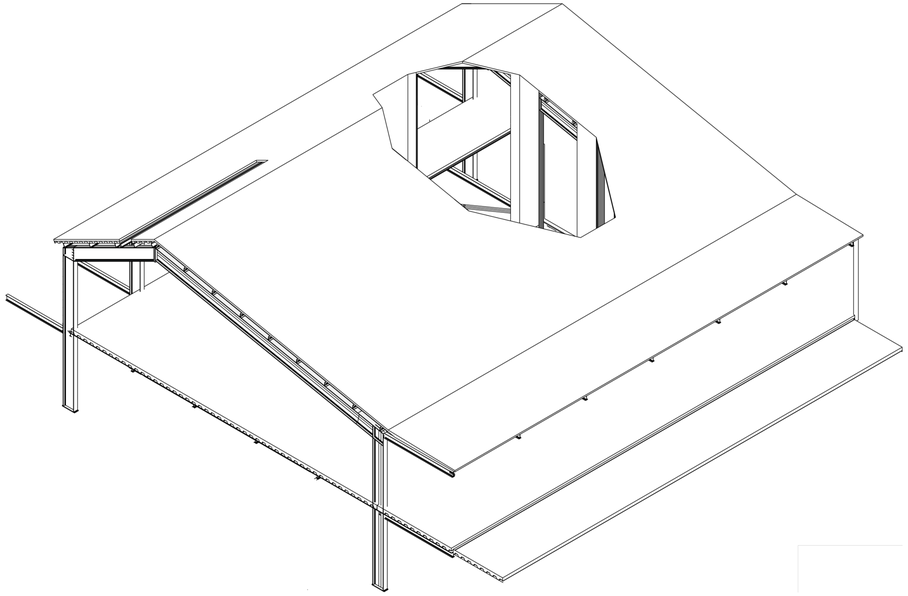
step 1



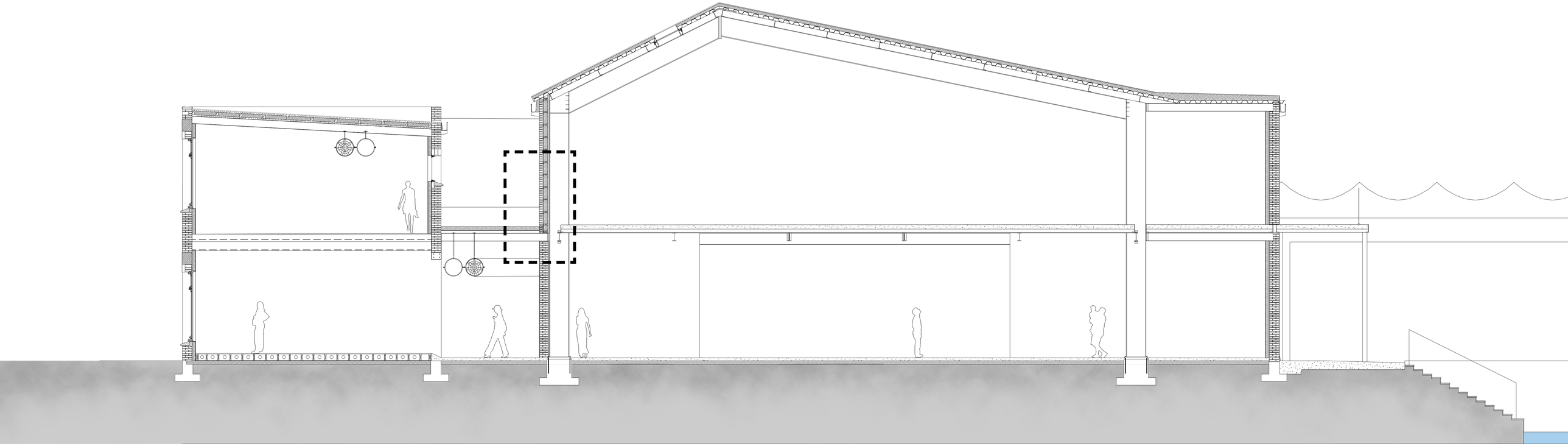
step 2

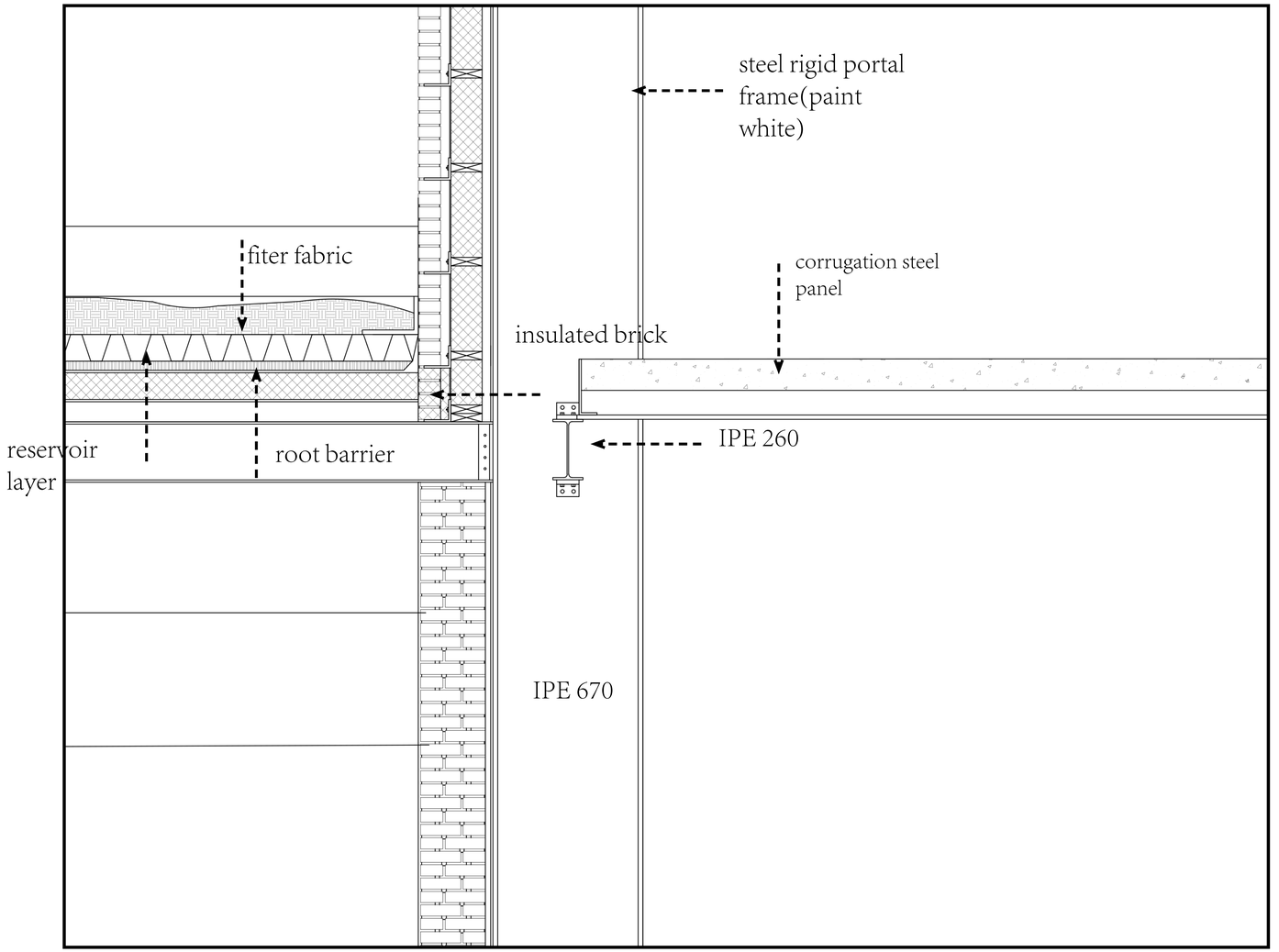


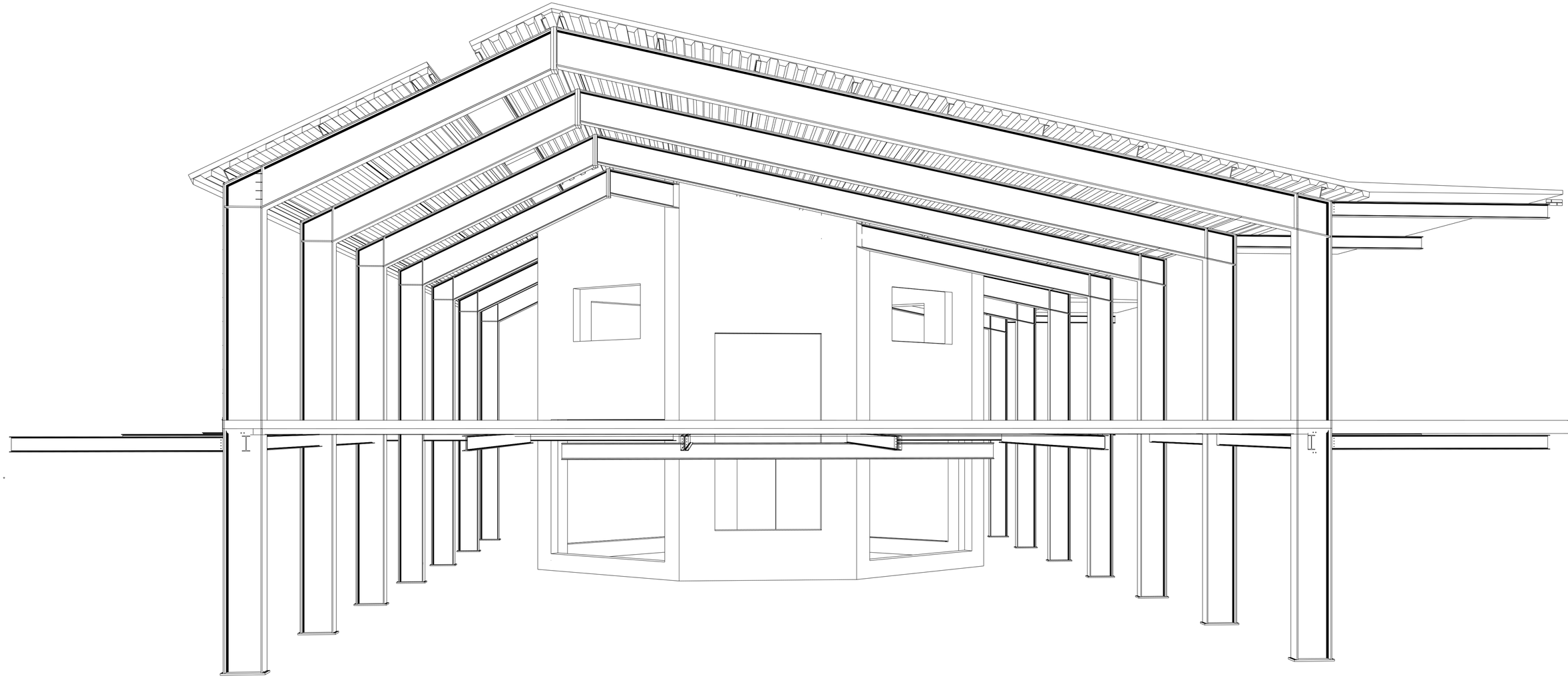
step 3

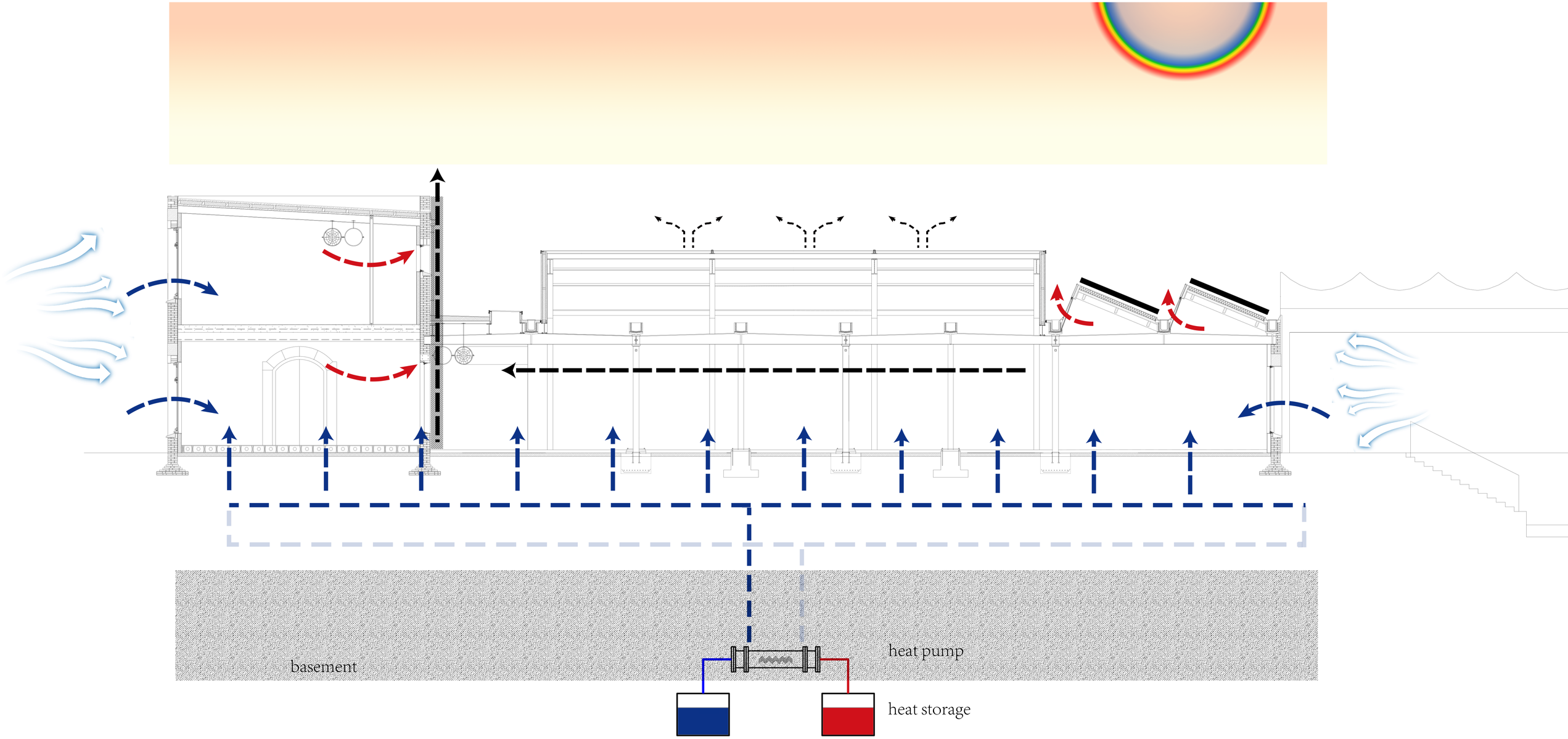


step 4

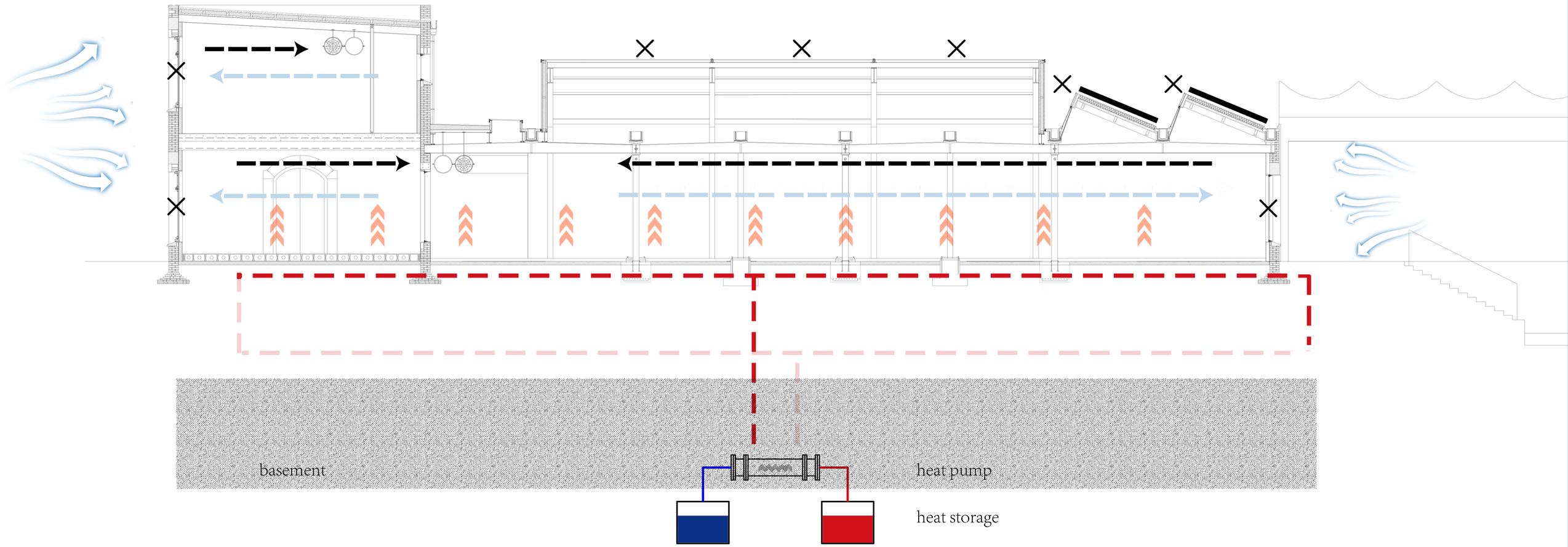



steel rigid portal
frame(paint
white)
fiter fabric
corrugation steel
panel
insulated brick
reservoir
layer
root barrier
IPE 260
IPE 670

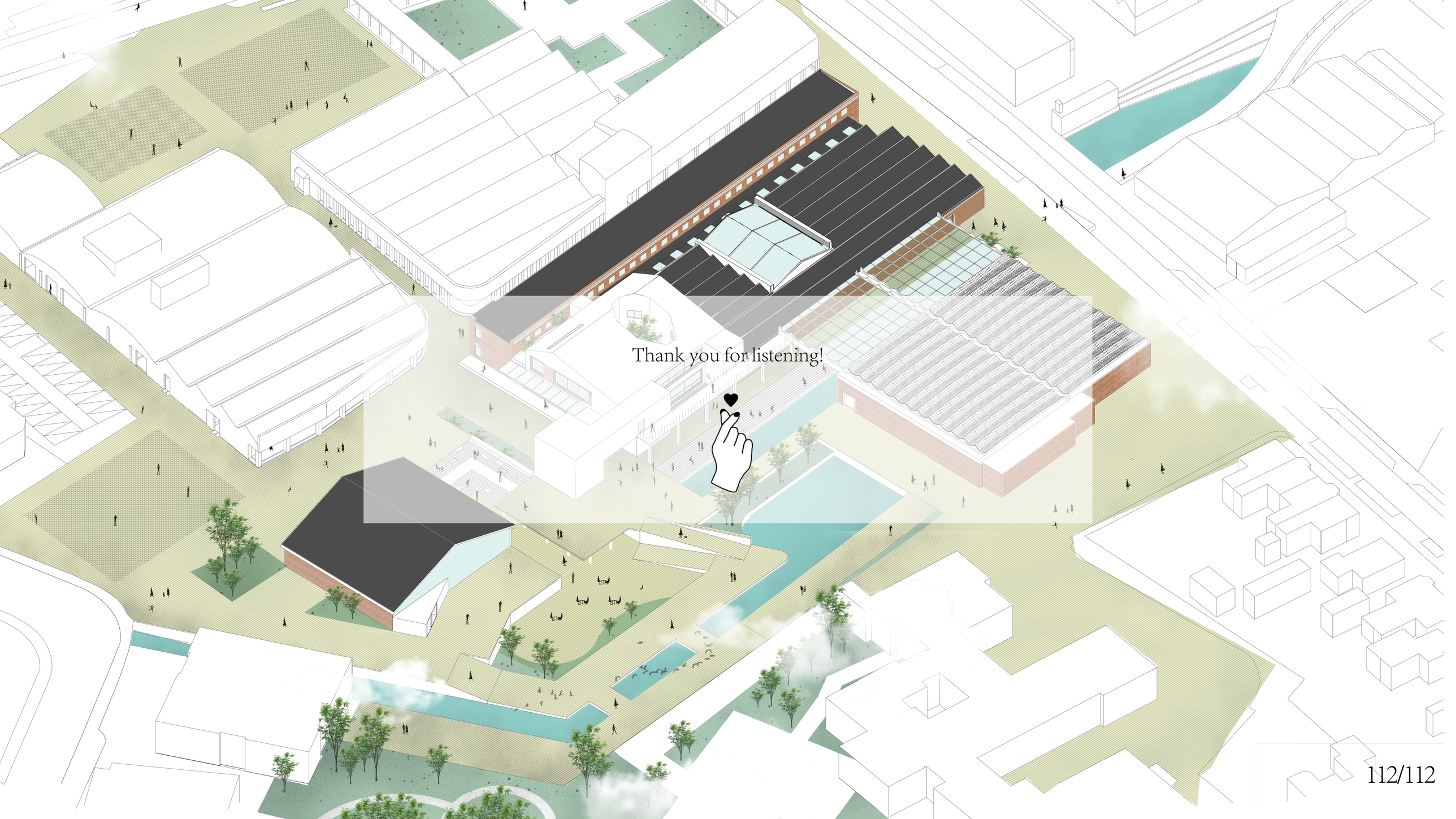




Climate systerm
summer



Climate systerm
winter


Thank you for listening!