

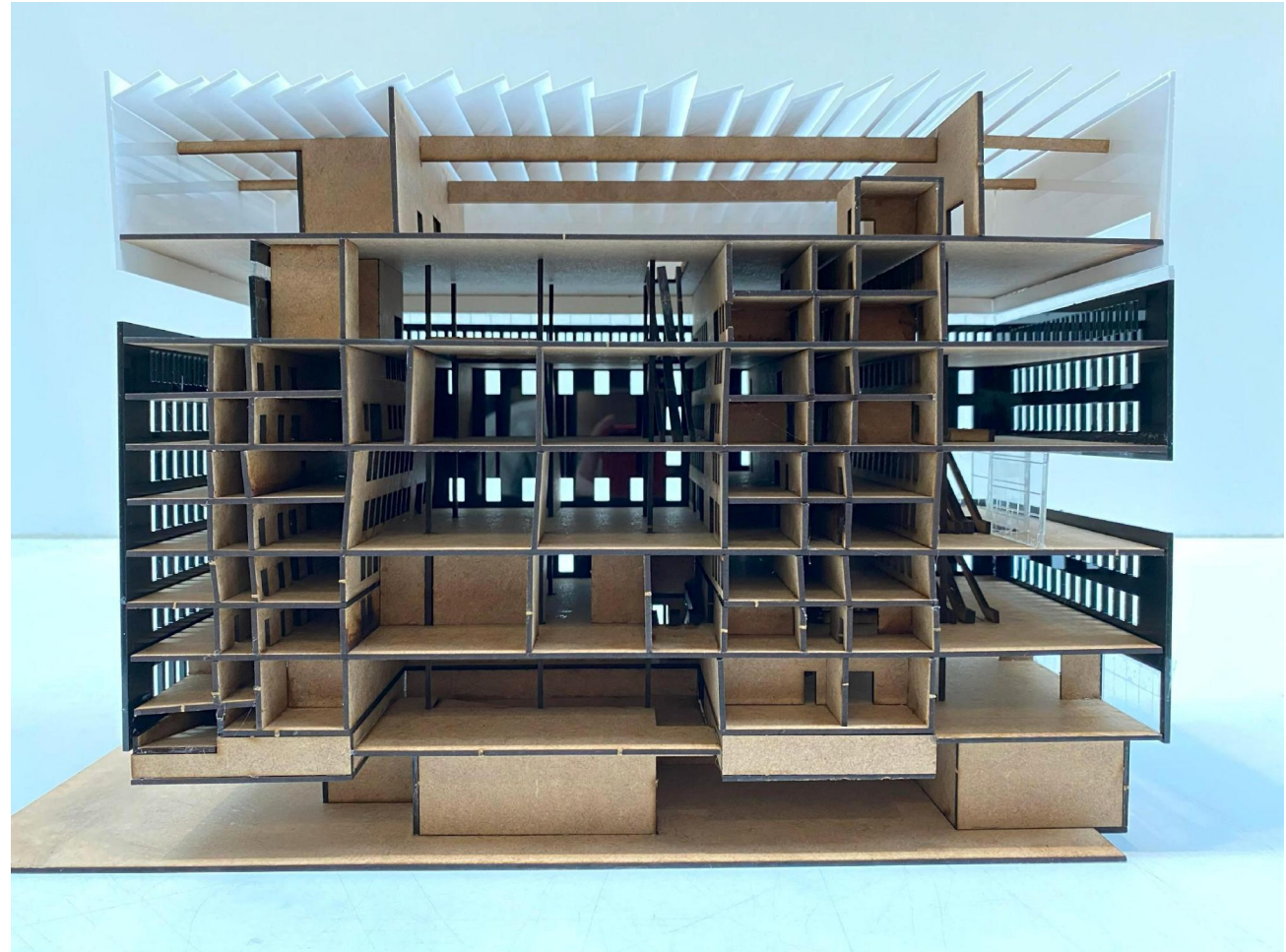
NEW&OLD | LIGHT&HEAVY

New M HKA museum -
construction of a Flemish Museum of Contemporary Art



CONTENTS

- 00 Introduction
- 01 Eight museum cases
- 02 Gallery space design
- 03 MHKA program introduction
- 04 Site & existing building
- 05 Massing
- 06 Function & plan
- 07 Materials & facade & form
- 08 Structure & foundation & detail
- 09 Space



00 introduction



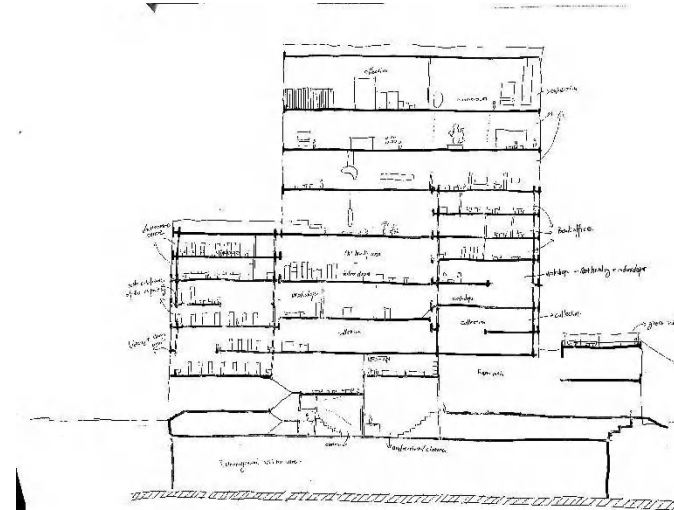
P1 eight museum cases



P2 collective research on the MHKA

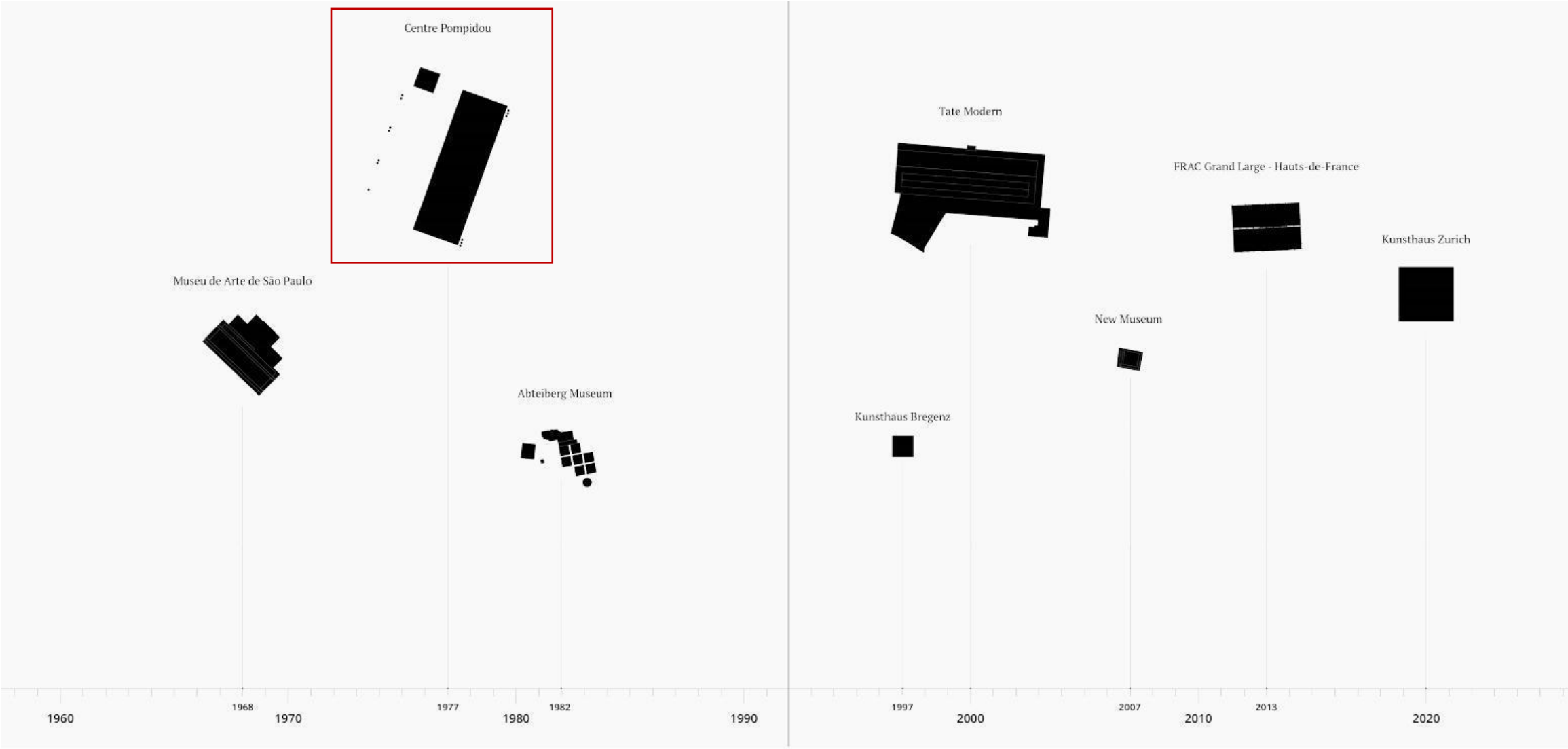


P1 gallery space design



P3 & P4 individual research and design

01 P1 eight museum cases



Timeline showing the studied museums in chronological order

3D to 2D

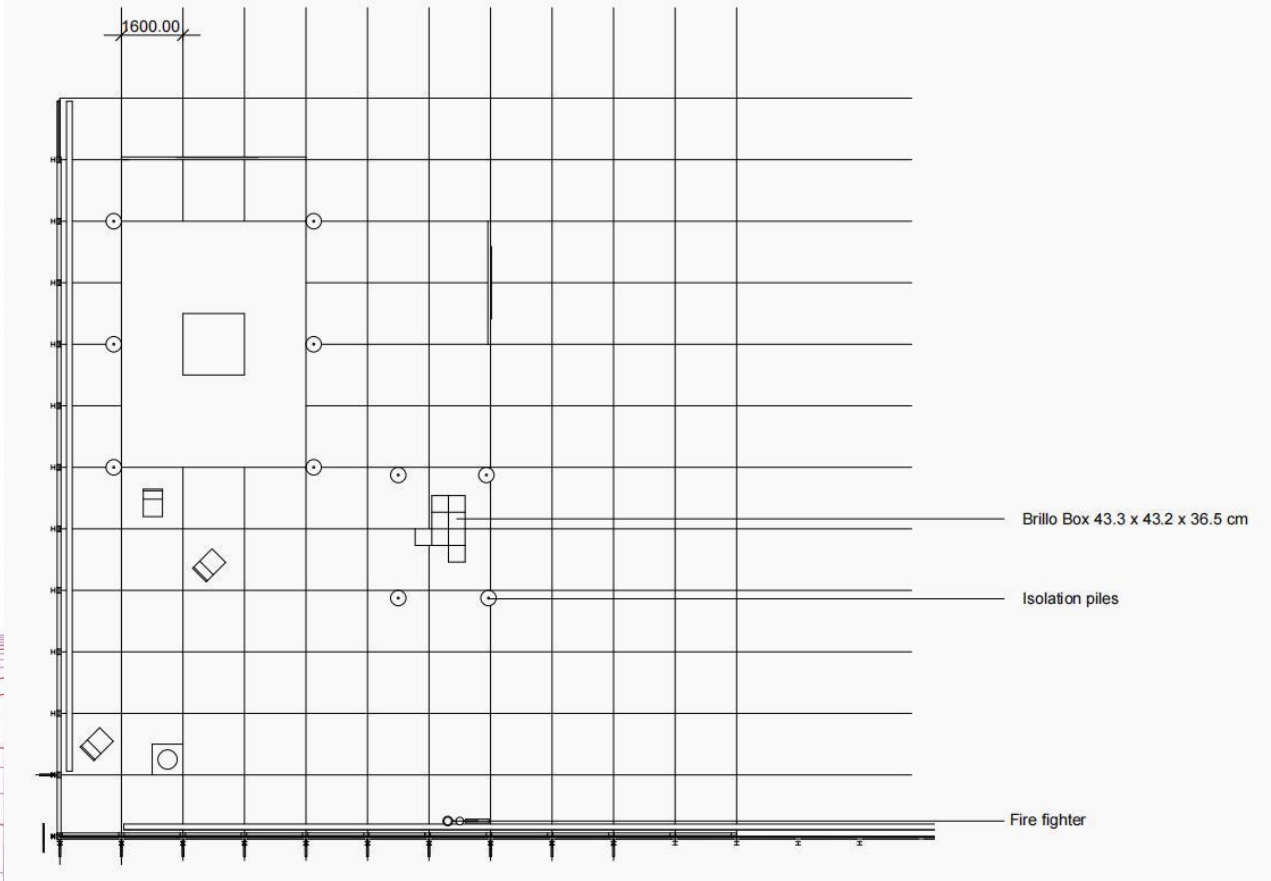
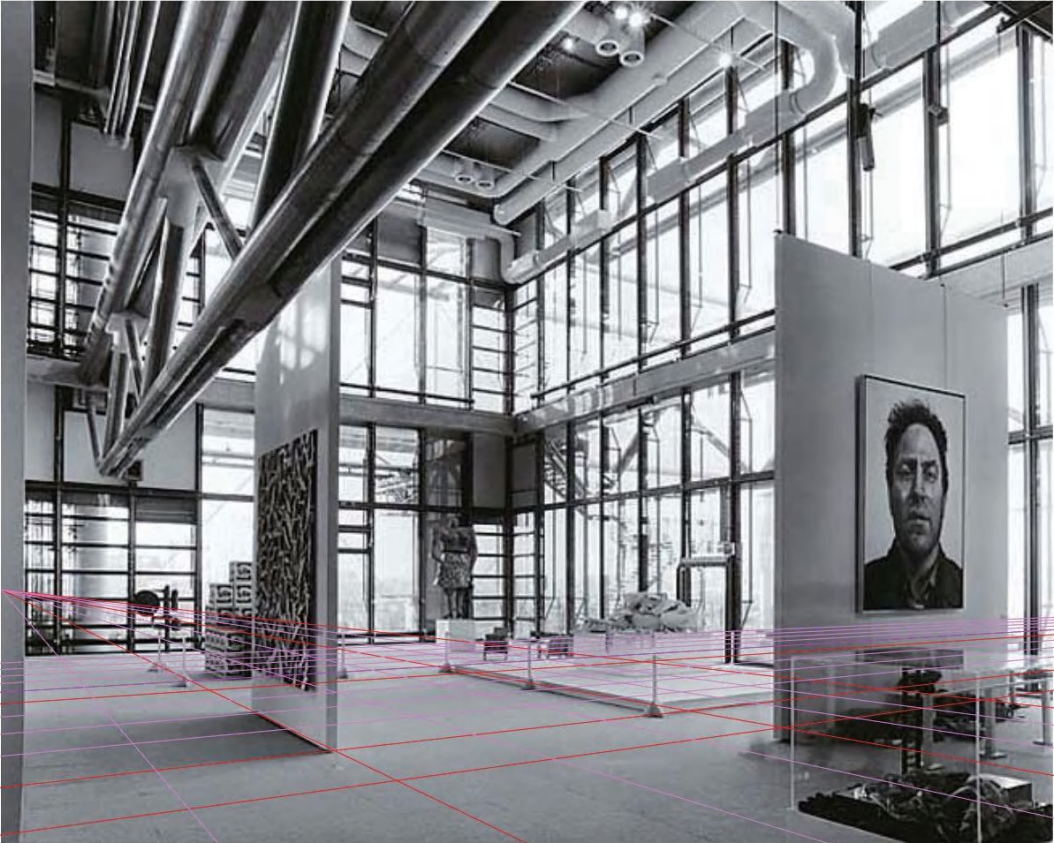


photo to model (digital&physical)

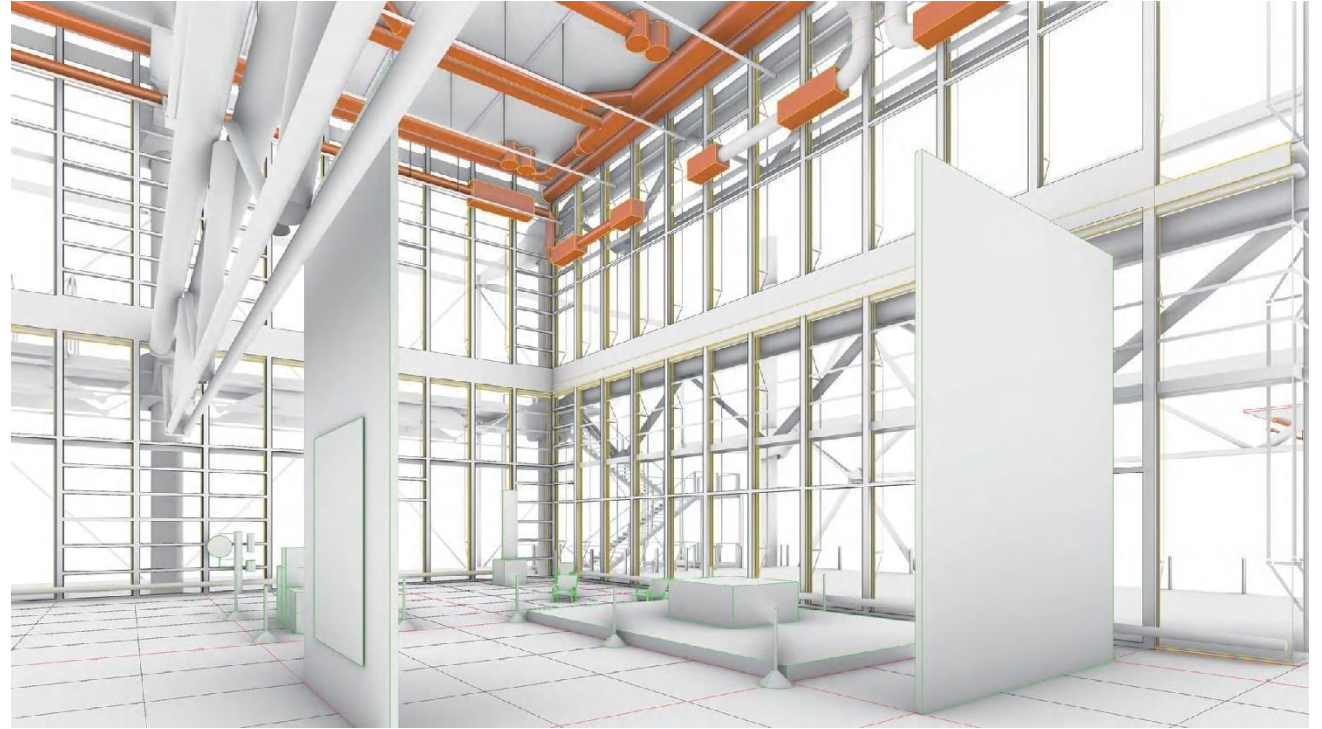


photo vs model

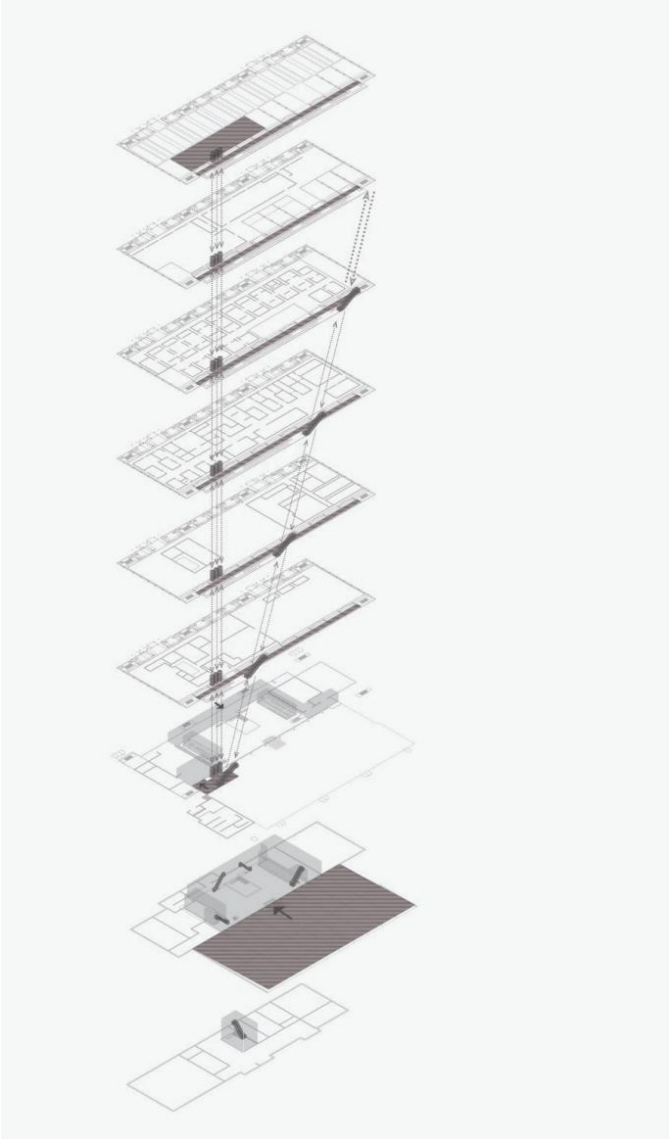


Space photograph

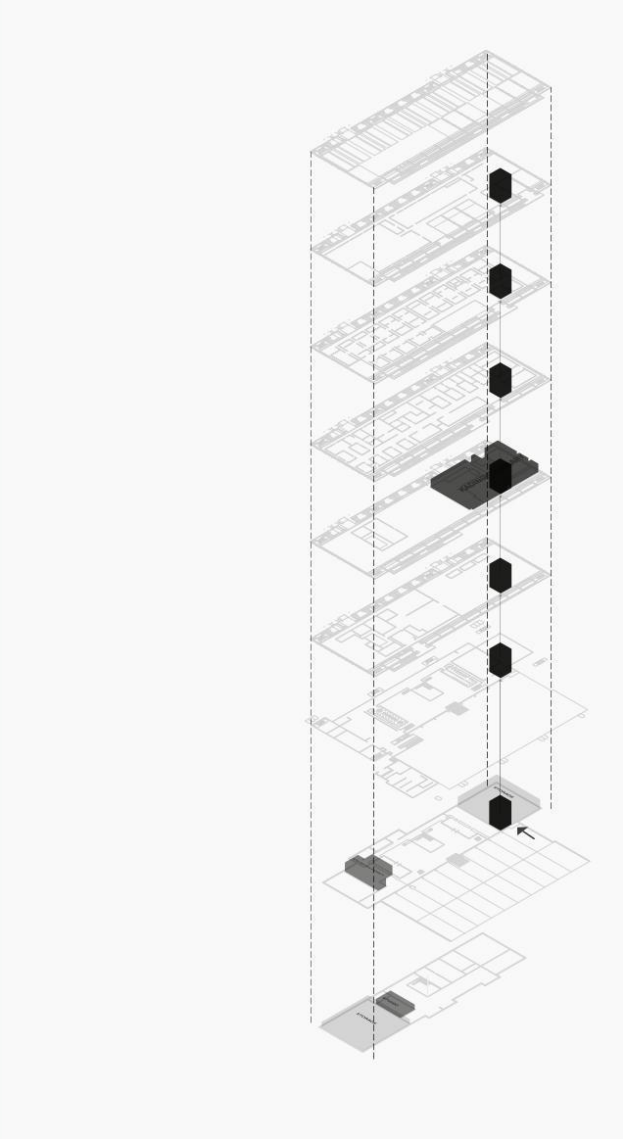


Model photograph

research & redrawings



circulation diagram



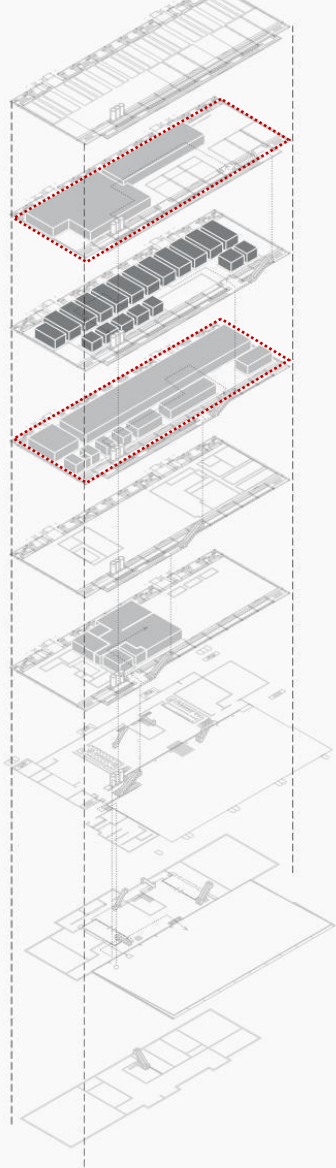
service diagram



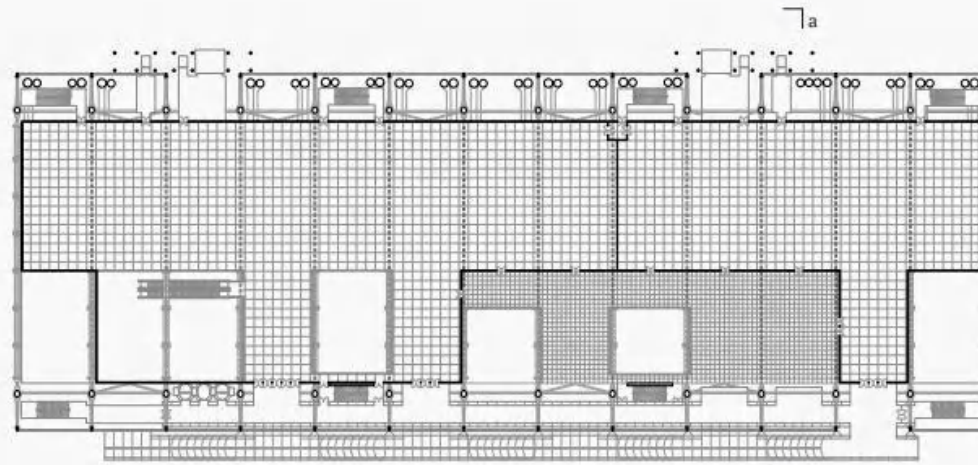
Site plan
1:2000



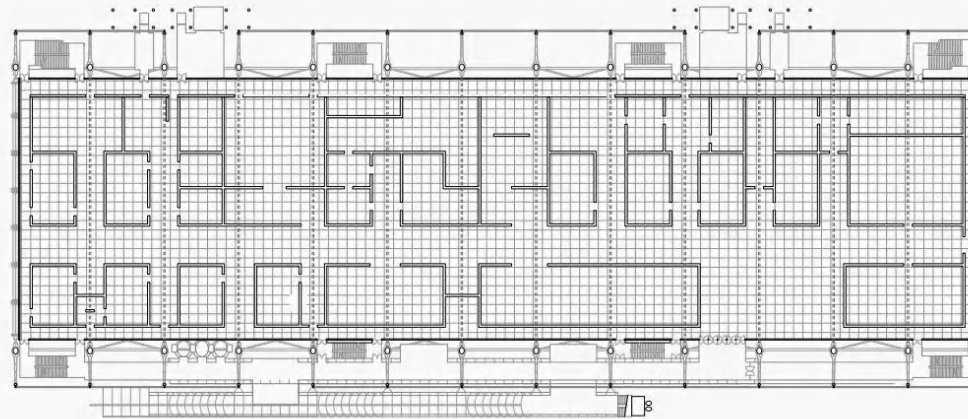
exhibition space



- Exhibition Routes
- Temporary Exhibition Spaces
- Permanent Exhibition Spaces

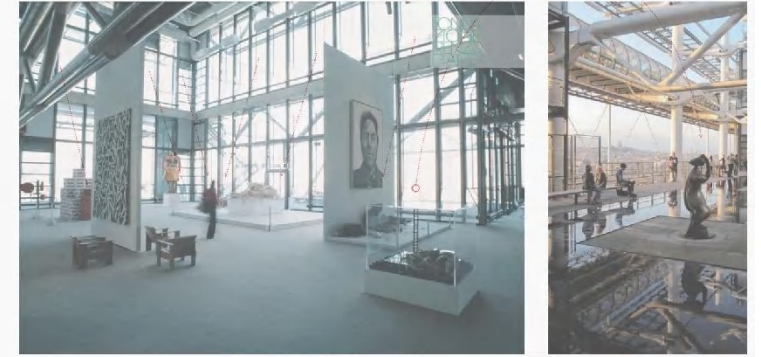


Fifth floor plan
1:1000



Typical floor plan with current exhibition layout
1:1000

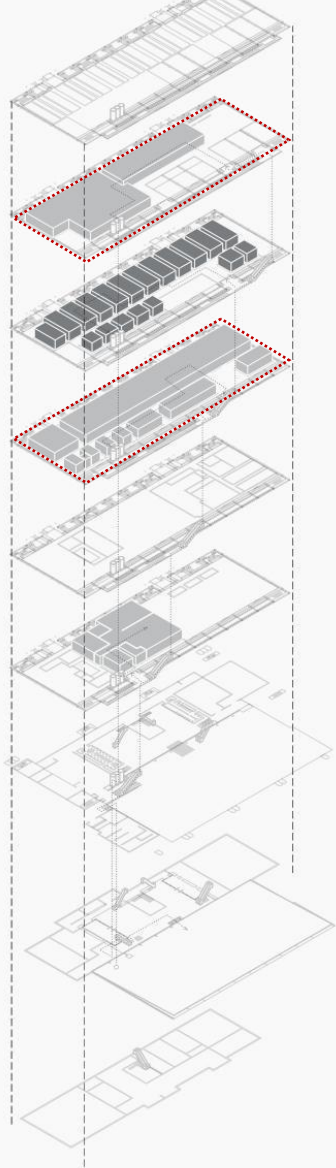
Natural Light



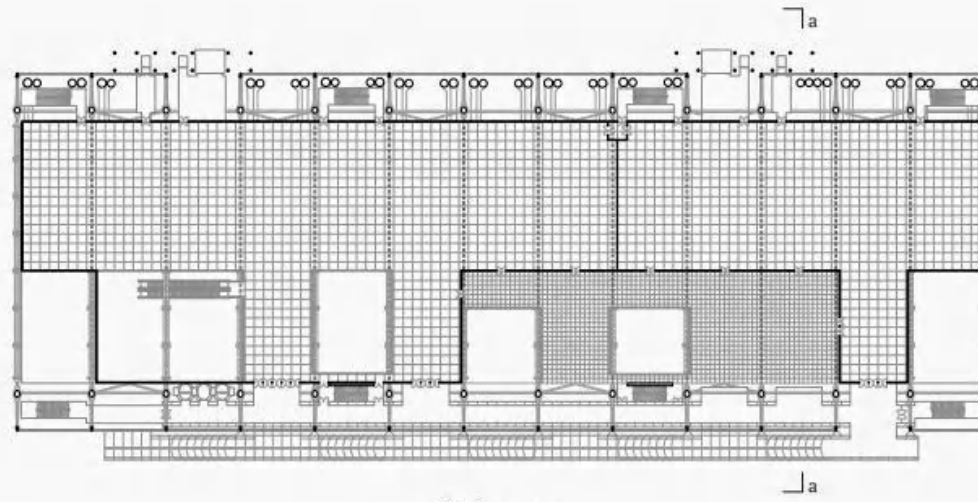
Artificial Light



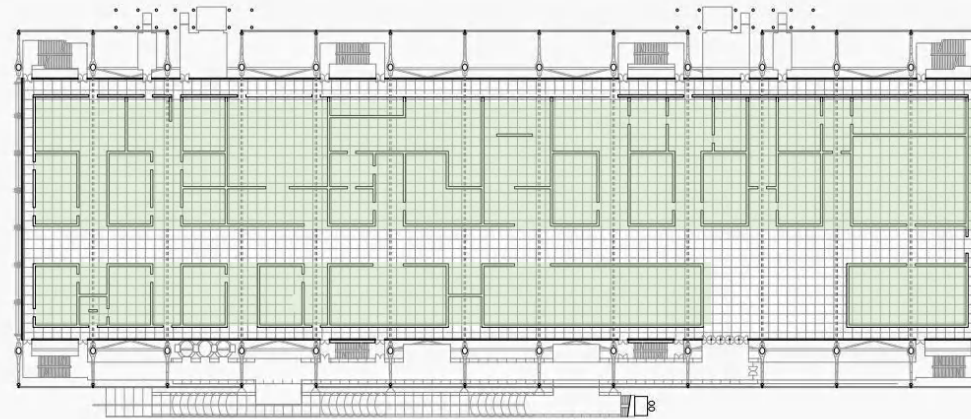
exhibition space




-  Exhibition Routes
-  Temporary Exhibition Spaces
-  Permanent Exhibition Spaces



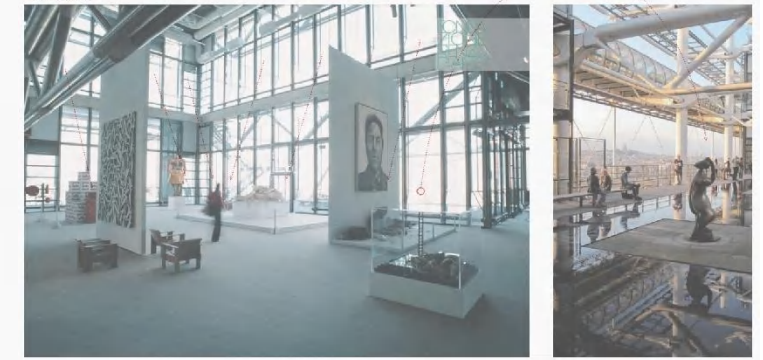
Fifth floor plan
1:1000



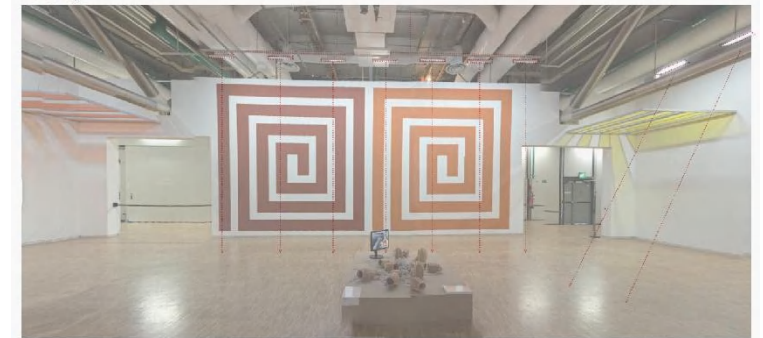
Typical floor plan with current exhibition layout
1:1000

 white cube

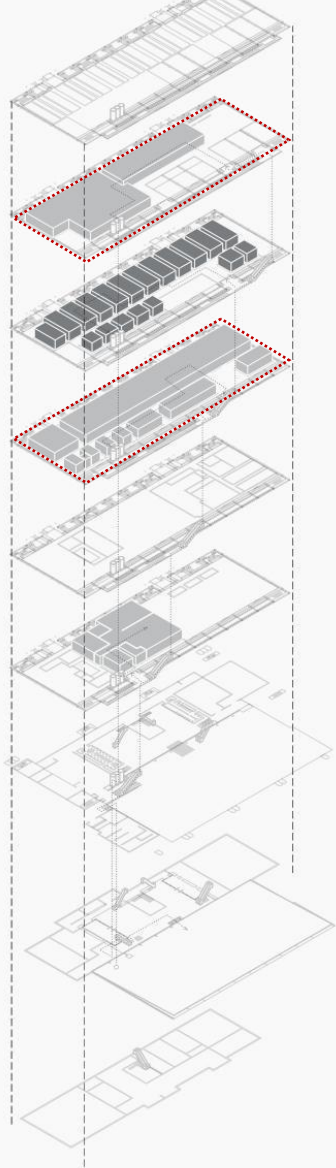
Natural Light



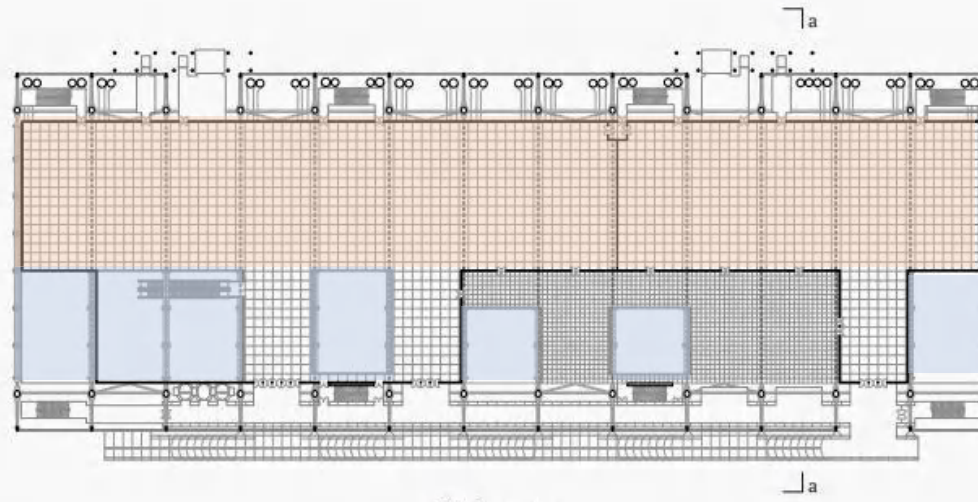
Artificial Light



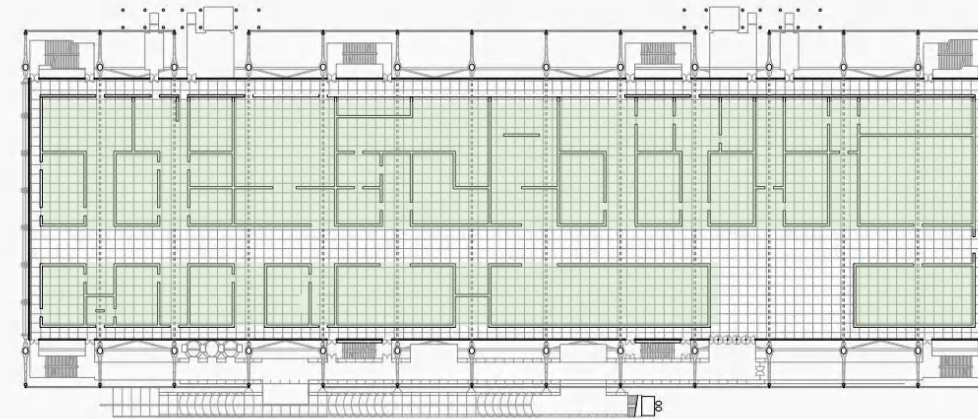
exhibition space



- Exhibition Routes
- Temporary Exhibition Spaces
- Permanent Exhibition Spaces



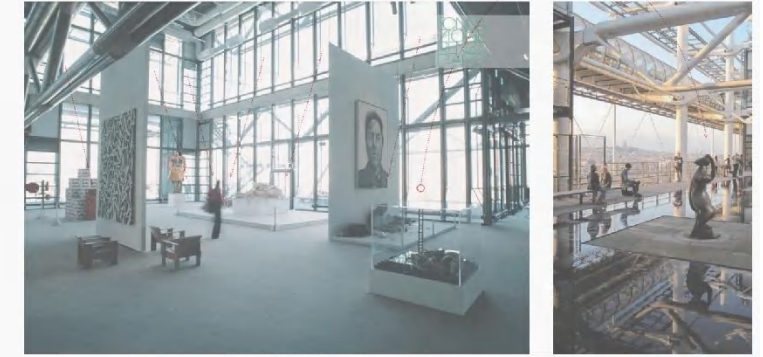
Fifth floor plan
1:1000



Typical floor plan with current exhibition layout
1:1000

- white cube
- Outdoor exhibition
- Large exhibition space

Natural Light

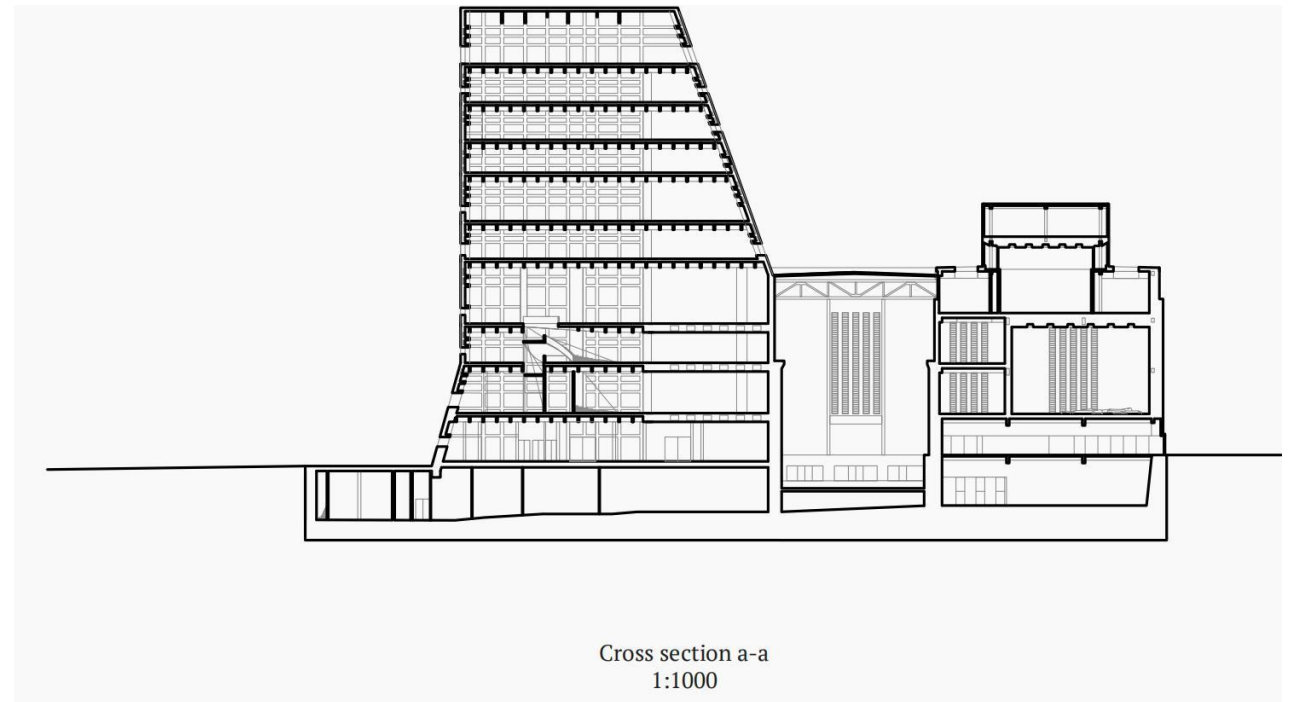


Artificial Light



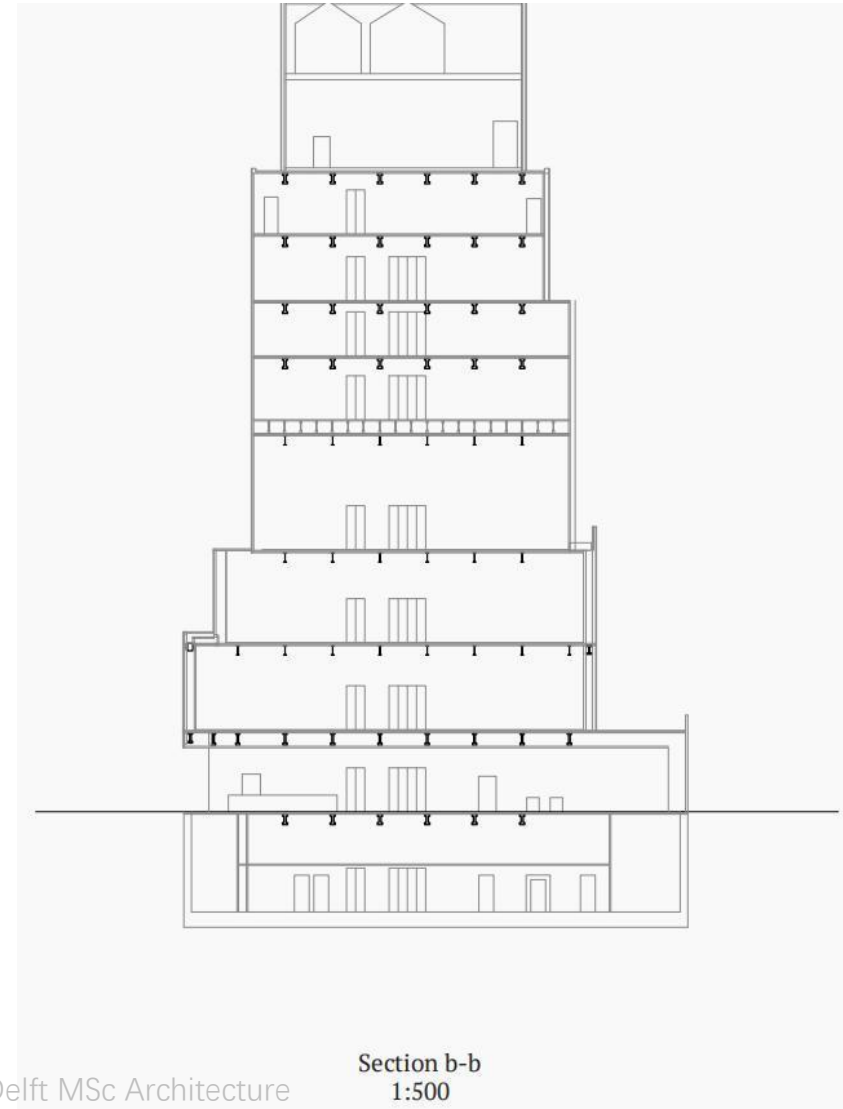
other case study

TATE modern



other case study

New Museum



02 P1 gallery space design

NEL AERTS

BABI BADALOV

MARIANNE BERENHOUT

JAMES LEE BYARS

JOS DE GRUYTER

ELS DIETVORST

LILI DUJOURIE

MARLENE DUMAS

JIMMIE DURHAM

ANDREA FRASER

ILYA KABAKOV

SUCHAN KINOSHITA

JOB KOELEWIJN

IVAN KOZARIC

JACQUES LIZENE

TAUS MAKHASHEVA

SERGEY MASLOV

GORDON MATTA-CLARK

GUY MEES

MASHID MOHADJERIN

NADIA NAVEAU

LAURE PROUVOST

GUY ROMBOUTS

WILHELM SASNAL

WALTER SWENNEN

LUC TUYMANS

PHILLIP VAN SNICK

JAN VERCRUYSSSE



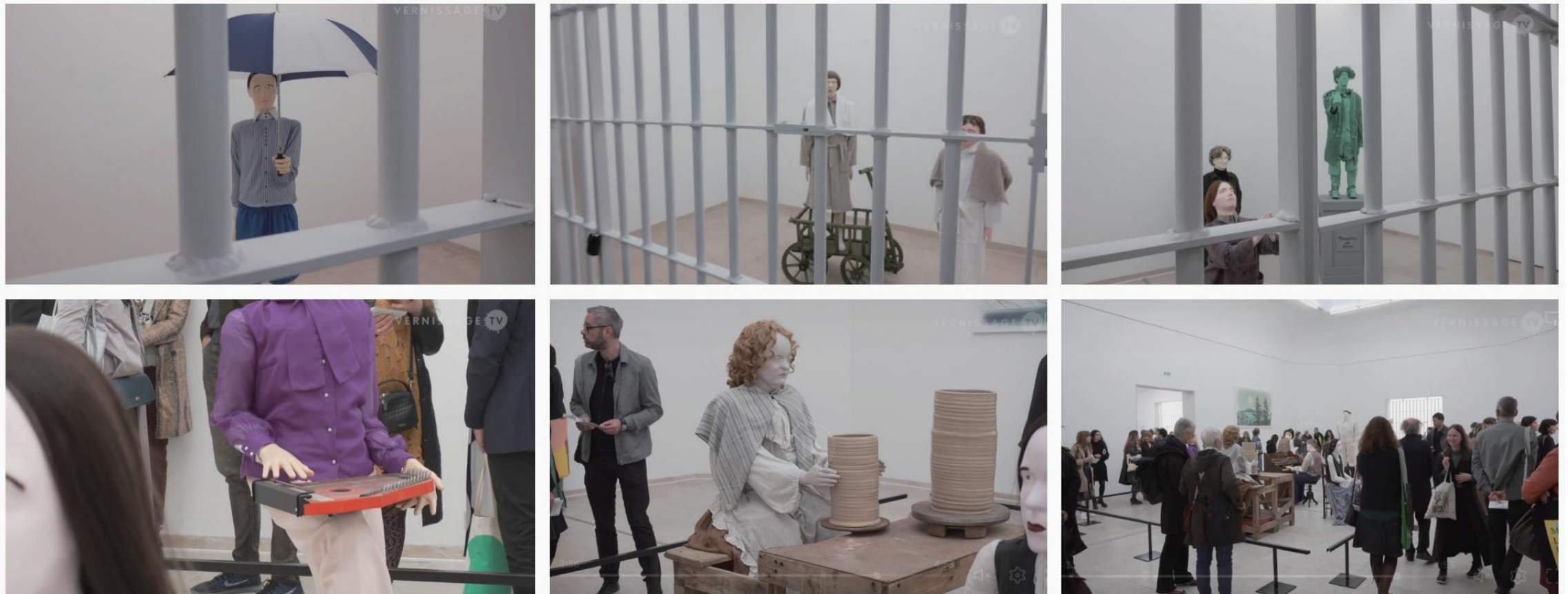
Artist

Jos de Gruyter and Harald Thys's art **casts a merciless perspective on reality**. Through their numerous artistic approaches –including **installations, video, drawing, sculpture, performance and photographs** – de Gruyter and Thys **visualise their imaginings of the parallel world inherent within the modern human psyche, along with how it manifests itself in the everyday aspects of life and civic conformity.**



Jos De Gruyter & Harald Thys

Artworks



Jos de Gruyter and Harald Thys / Belgian Pavilion, Venice Art Biennale 2019

people with mental disabilities and loneliness - A disturbing world



Mental Disabilities

The Fool(2019)

We know that the fool has a mental age of around eight. When visiting the zoo with his aunt, he was entranced by the nocturnal creatures. He stood stock-still for hours on end, staring into the eyes of a barn owl until hypnotised. Since then, he only sings the few songs that he can remember from his childhood.



Loneliness

Flap & Flop(2019)

Flap and Flop are two comedians from Bilzen, a village in Limburg. Flap and Flop's jokes are so bad that no one wants to hear them. If Flap tells a joke, only Flop laughs, and vice versa. They travel from village to village in their cart. Sometimes Flop stands on the cart, and sometimes Flap. They go to the places where there are fairs and markets, and try to draw people's attention by singing loudly or shouting jokes. However, they are always chased away and have mud and stones thrown at them.

Ancient Trade Workers - A relieving world



Hard Working Worker

IRMGARD Speck

From 14 April 1856 to 17 May 1960 Irmgard Speck lived in the village of Kaisborstel in Schleswig-Holstein in north-western Germany. She could barely speak, had no social life and worked 10 to 12 hours a day. Due to her isolated nature, she was ignorant of the world around her. She didn't notice the industrial revolution, nor the First or Second World War. She spun thread from wool year after year. It has been calculated that Irmgard Speck spun approximately 400,000 kilometres of thread in her long life. The distance from the earth to the moon.

1 to 1 dolls: playing with the parallel and real world



concept: break the gap between the real & unreal

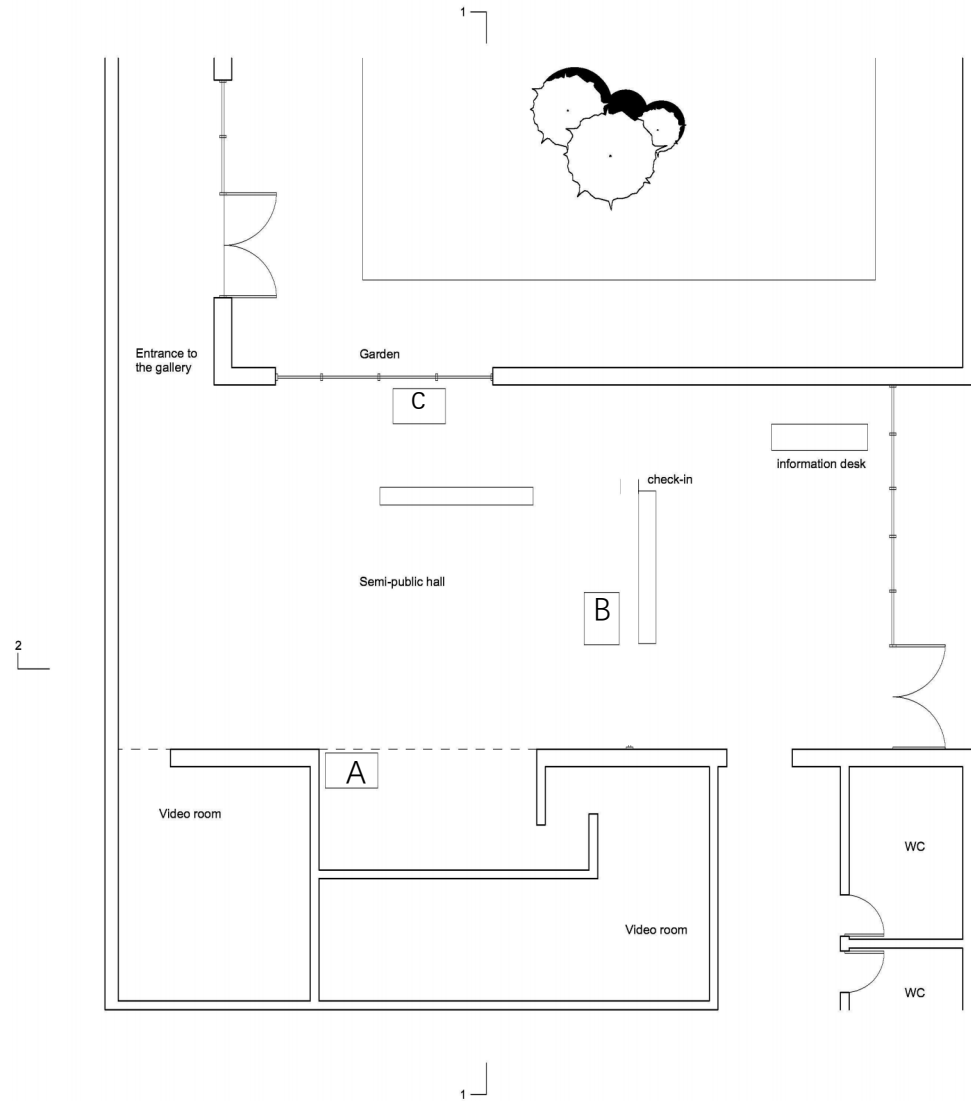
outside the gallery

A



Loneliness
Flap & Flop(2019)
Trapped in their own world,
Listening only to each other
Stay away from crowds

video room entrance,
quiet corner in low space



B



Hardworking Worker
IRMGARD Speck
Hardworking
Quiet
Positive

Next to the garden,
under a quiet bright glass
window

C



Mental Disabilities
The Fool(2019)
A mental age of around
eight
Not caring about people
Motionless in the crowd

Next to the check-in,
semi-public space entrance

outside the gallery

Thomas Struth: Museum Photographs

“In Art Institute of Chicago II, Struth successfully bridges the gap – in both space and time – between the figures in the painting and the two figures viewing the painting in the gallery. ”



outside the gallery



The museum as public space (or ... a playing field of public regimes)

As an institution, the future museum explicitly wants to disseminate an idea of 'publicness'. This public character of the institution is not only reserved for the accessible parts of the museum such as the lobby and the reception (nor for not what we here call the forum component), but also relates to other parts of the museum: the intimate public condition of the reading room or the urban space around the museum building, for instance. A museum room, a gallery, a public square, a library or a theatre, the nave of a church, the secret atmosphere of underground catacombs, the Parisian passages or atriums of American shopping malls all have a different kind of 'public character'. Different rules of conduct and usage expectations apply to each example. In its curatorial operations, the museum wants to play on the layered public character of the museum institution and is looking for this purpose for the most appropriate expression and organization. The nature of the public sphere may differ throughout the future museum and these differences should be articulated architecturally.

Department of Culture, Youth and Media

All—inclusive study assignment for the construction of a Flemish Museum of Contemporary Art P10

Where the exhibition happens

What we can do at the museum besides the exhibition

Where the exhibition happens



Gallery design of P1
3 artworks of Jos de Gruyter & Harald Thys
Placed at the entrance of the museum

Where the exhibition happens



'Zonder titel' [Untitled], Keith Haring, 1987
MHKA's most expensive collection - placed in the cafe

Where the exhibition happens



Aigua Bellugada/The Shape of Water, Hugo Roelandt, 1985
Roof Terrace

What we can do at the museum besides the exhibition



Cafe



Family Painting & Gaming Salon



DIY workshop for children



Library



Yoga lessons



City Walk

Exhibitions can happen outside the gallery

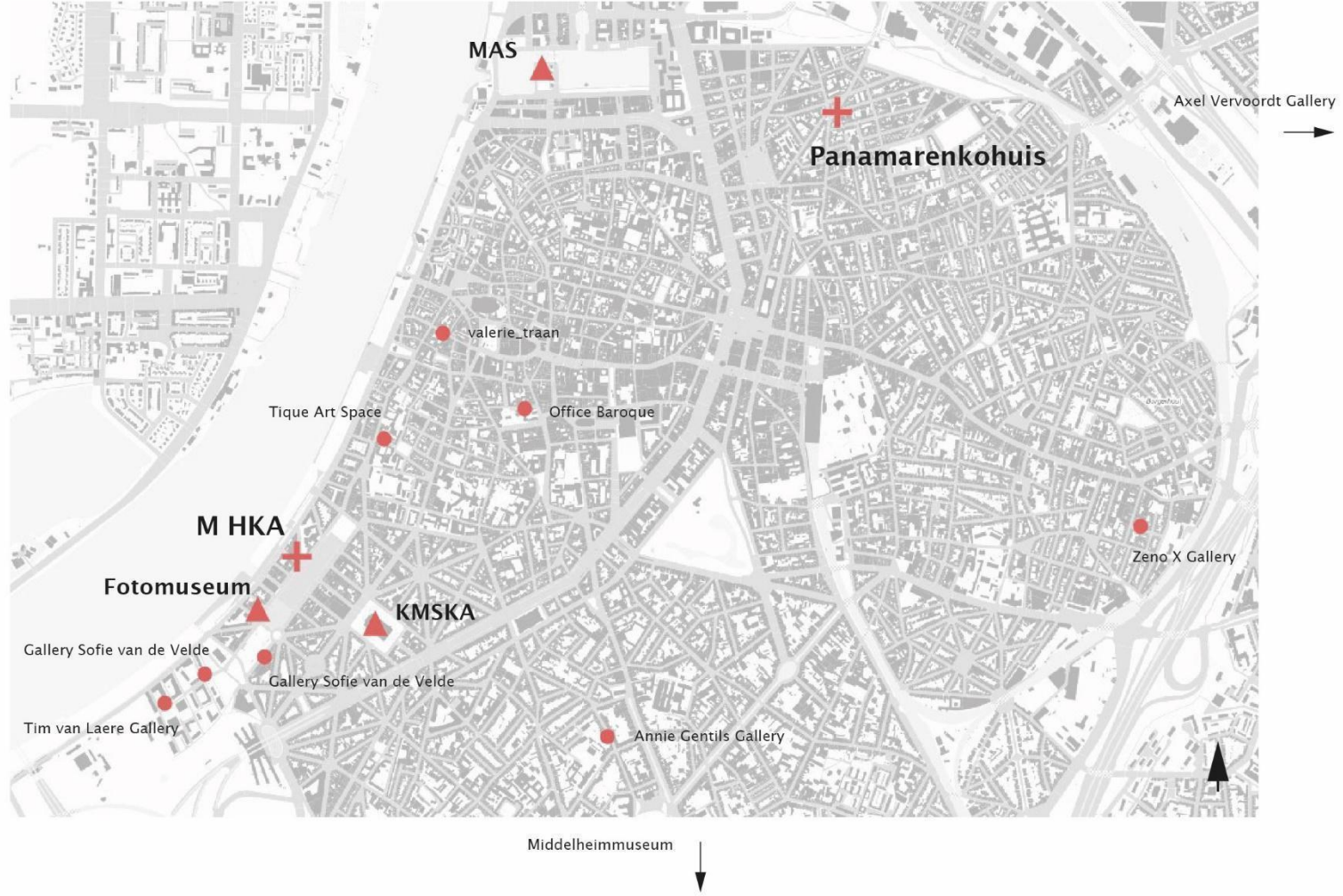
Museums are becoming more open and diverse

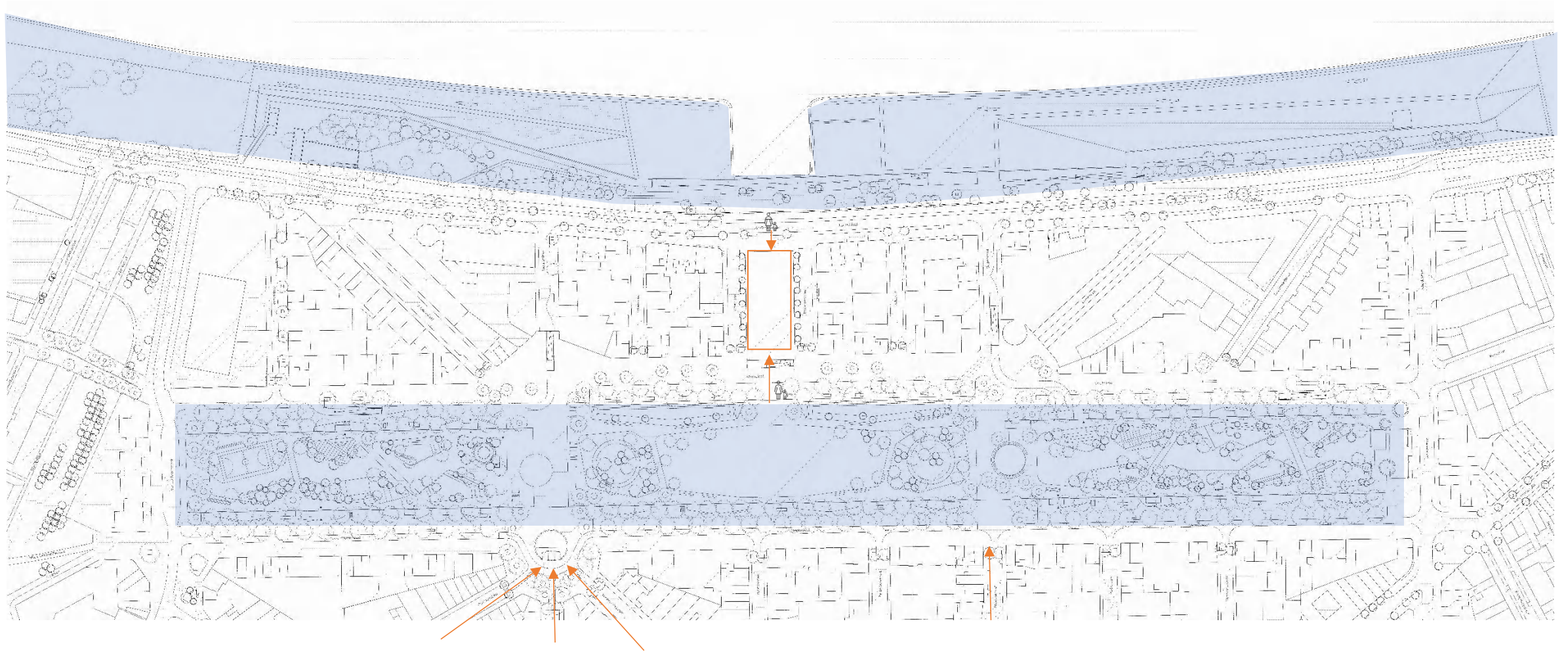
04 Site&existing building

Site location

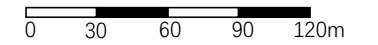


Culture map Antwerp

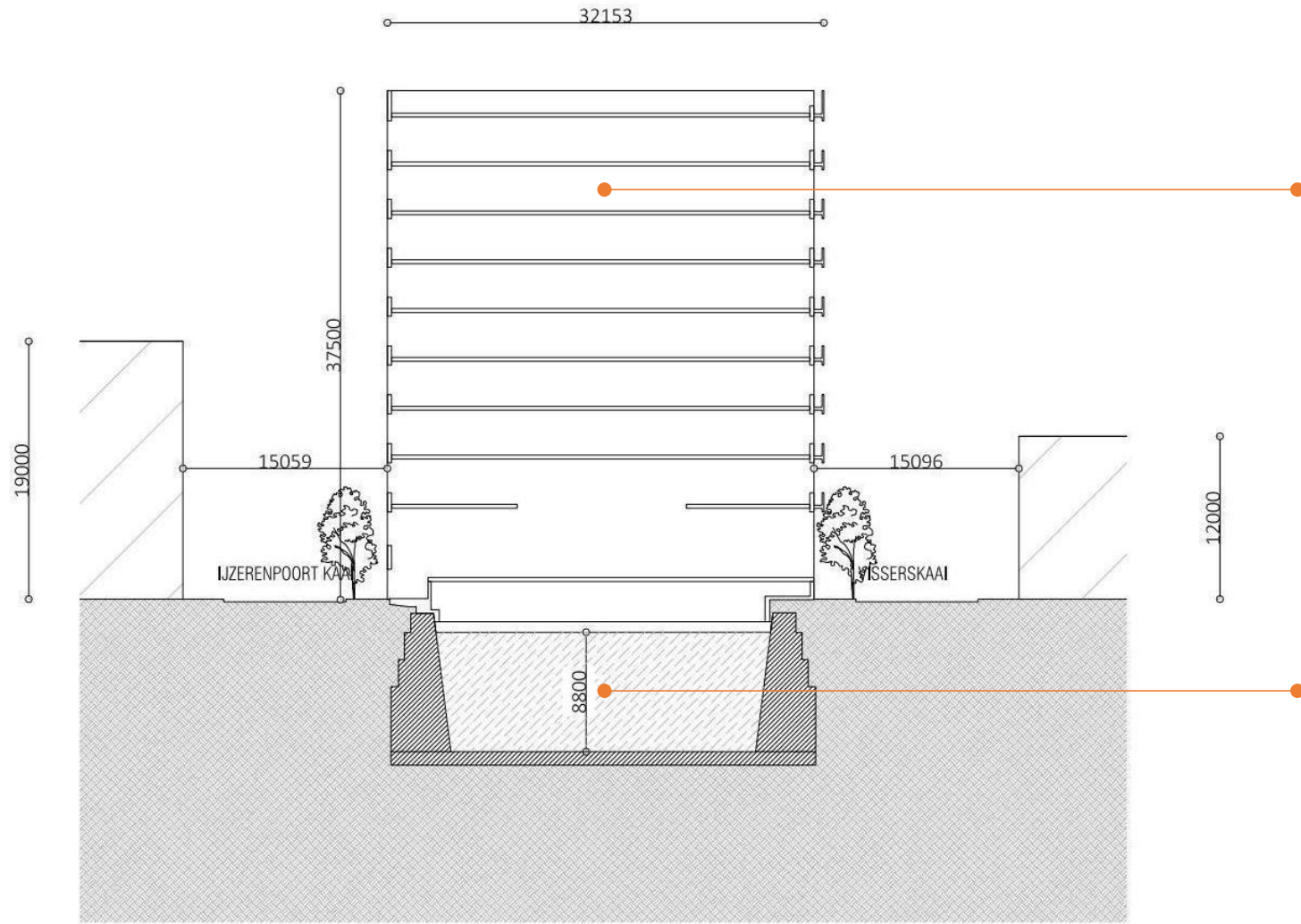




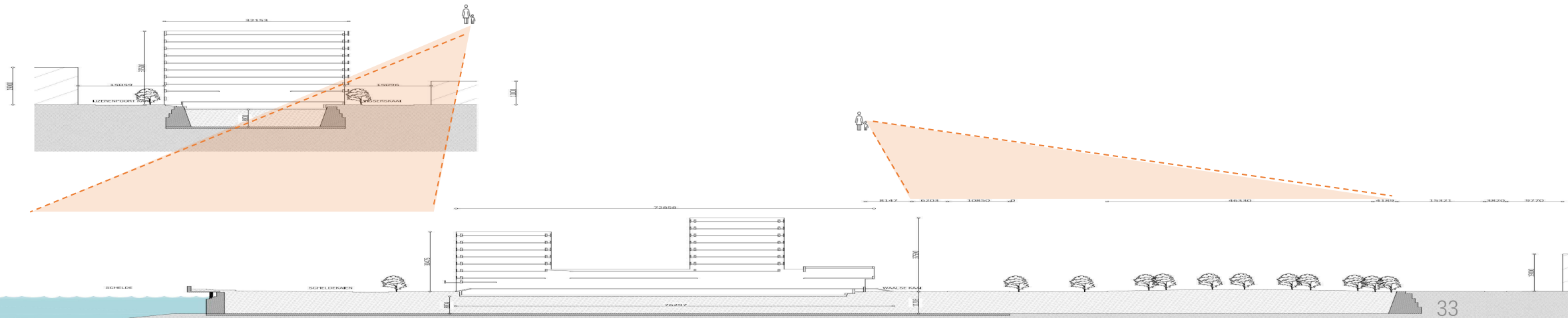
Site plan

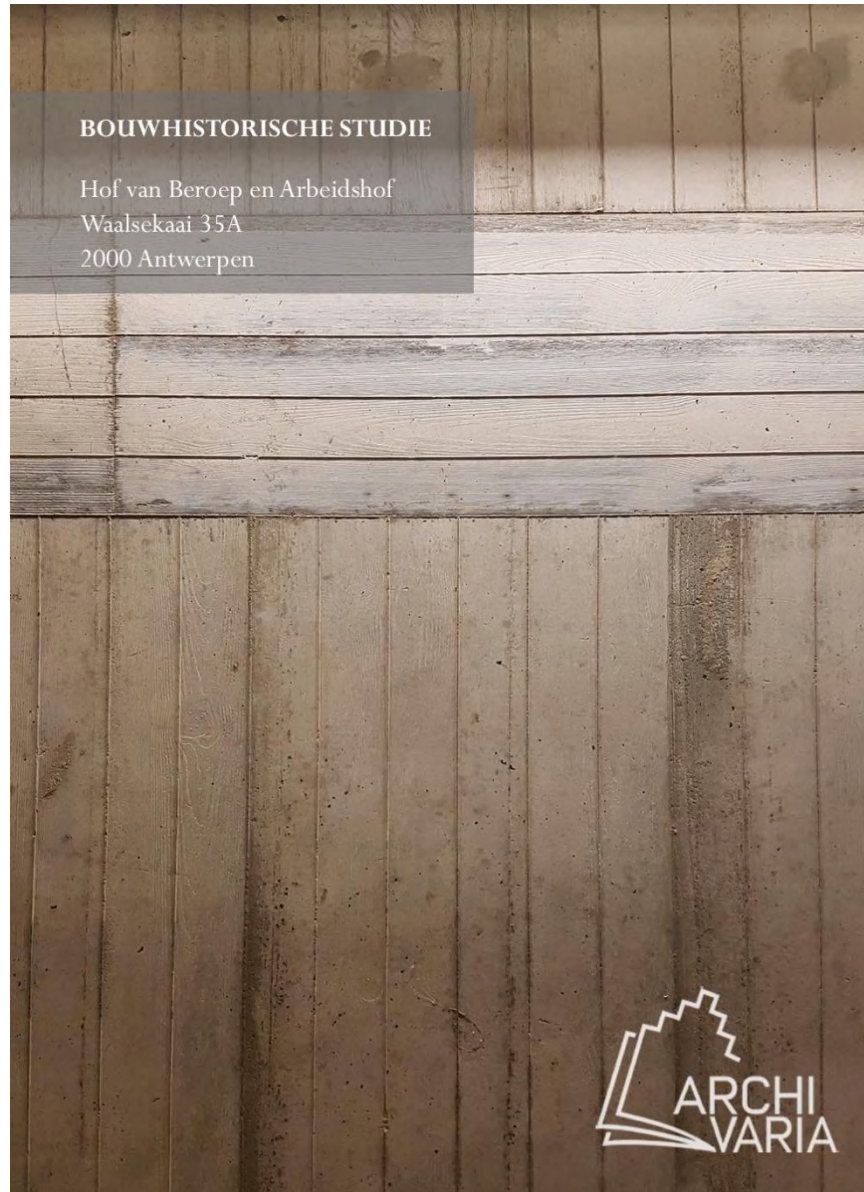


Existing courthouse & Lock



Keeping the existing building





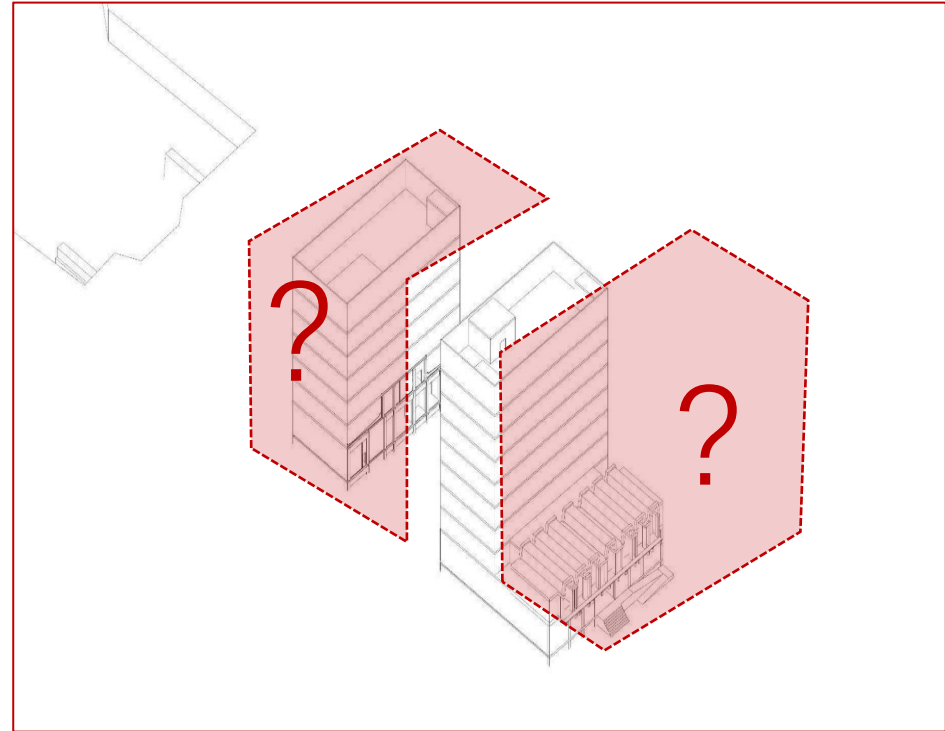
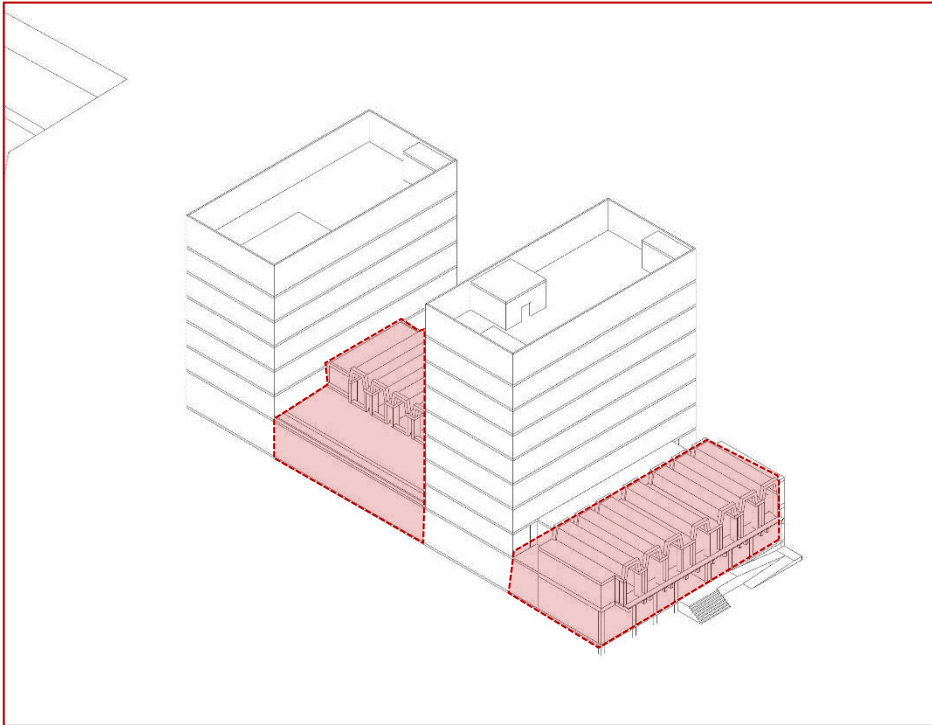
1.2 Legal Effects

The building was recognized as architectural heritage on 28/11/2013 on the Inventory of Immovable Heritage. This means that the building is not protected as a monument, but that it is recognized that it is a heritage object that is valuable. Such inclusion on the Inventory has the following legal consequences:

- **Duty of care and motivation for administrative authorities:** A competent authority must investigate whether the works have a direct impact on inventoried heritage. The measures taken to comply with the duty of care must also be substantiated. This only applies to architectural heritage that was established outside the period 2009-2014.
- **Information obligation upon transfer of ownership:** The notarial deed of sale or sales agreement must state that the property is included in the established inventory.
- Deviations from the standards can be requested **energy performance and indoor climate** if necessary to maintain the heritage value of the building. (see Energy Decree of May 2009)
- **Foreign buildings** from the established list can more easily get a new position.
- Adapted regulations for projects that **public housing** achieved through renovation. (see decision of 21 December 2012, art. 8, §2, second paragraph, 3°)
- If for the **demolition** a permit is required for a building from the established list, the licensing authority must justify its decision and indicate in its decision how it has taken the heritage values into account.
- For the management of established immovable heritage, it is possible to appeal to financial support from the Flemish government, for example a heritage loan.

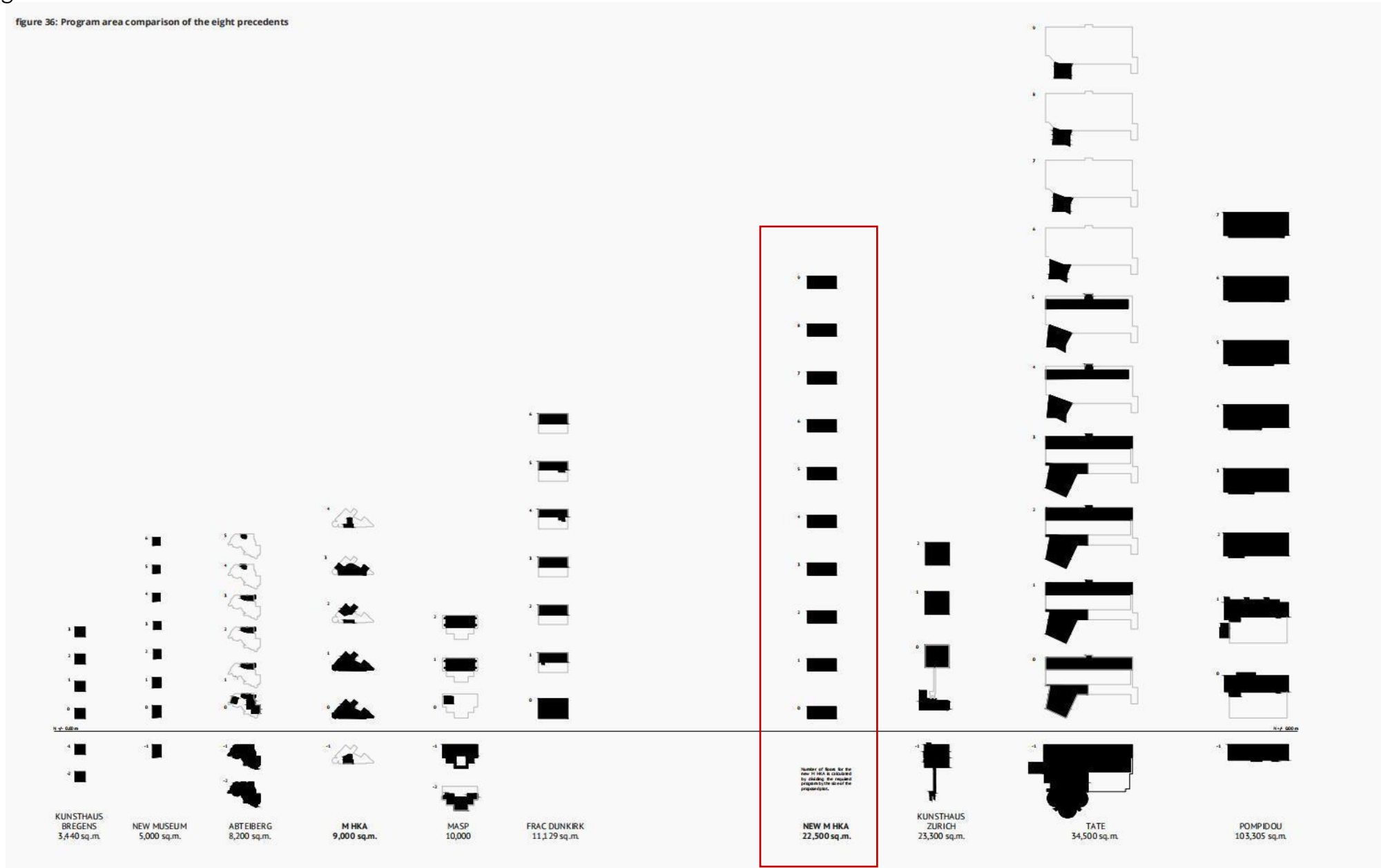
More information about the specific legal consequences can be found on the website of the Agency for Immovable Heritage.

Demolition and retention

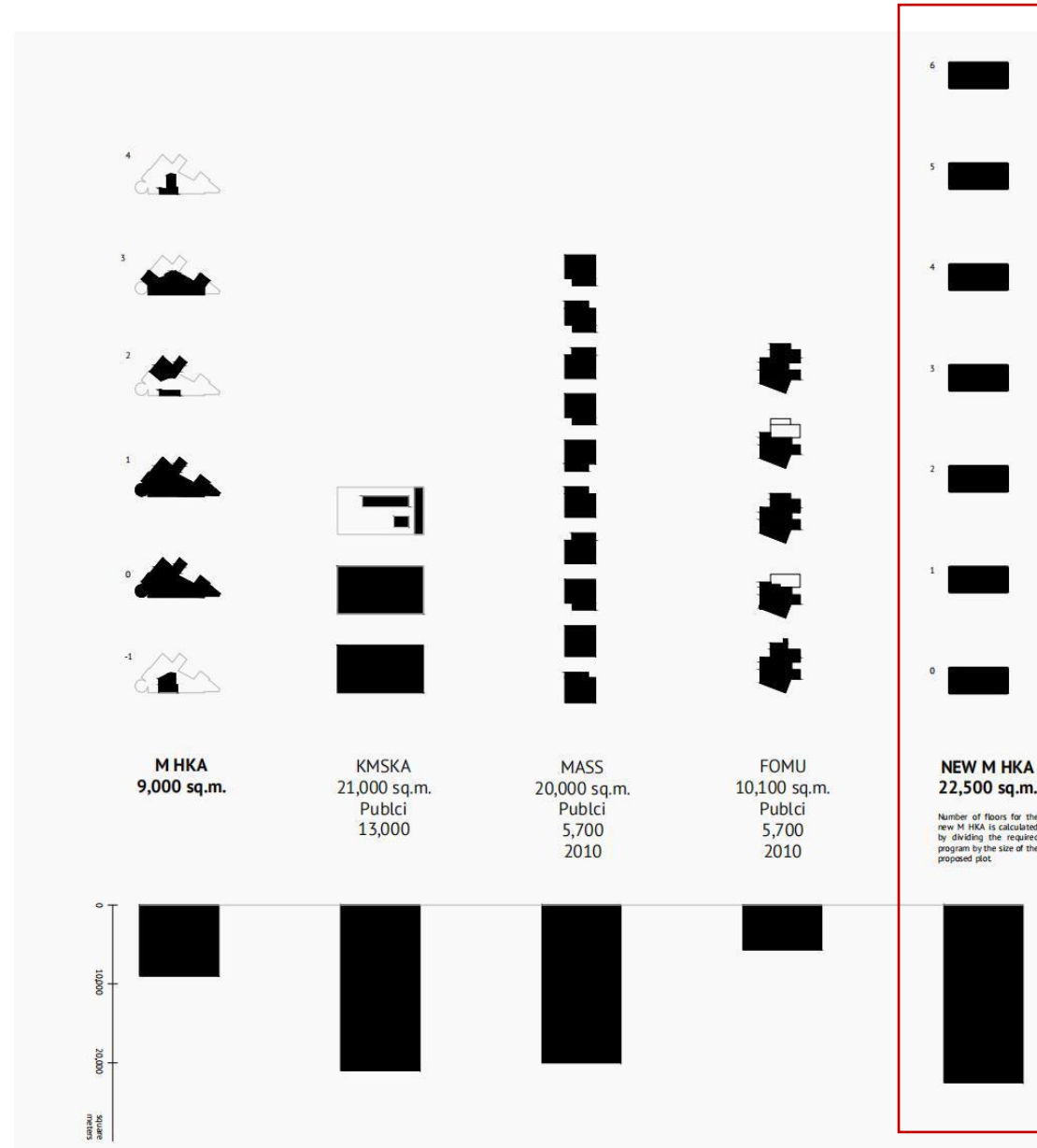


05 Massing: check the area

figure 36: Program area comparison of the eight precedents



Massing: check the area



Massing: check the area



MAS museum, Antwerp
60m



Tall buildings in the new city area
80m



Existing building
36m

Surrounding buildings
20m

Massing: check the area



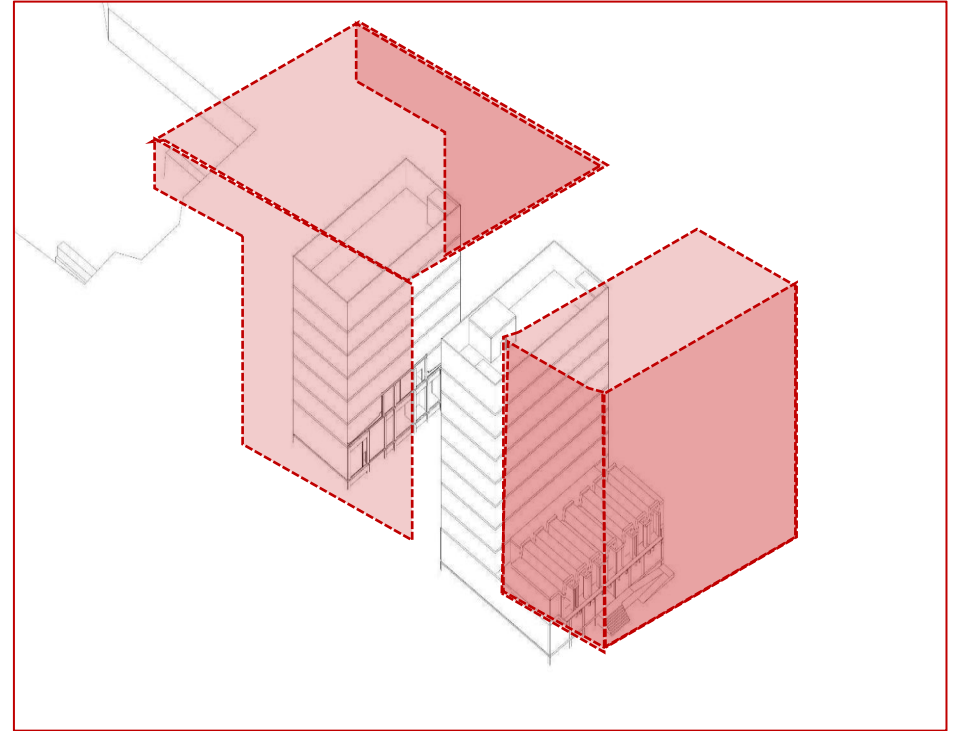
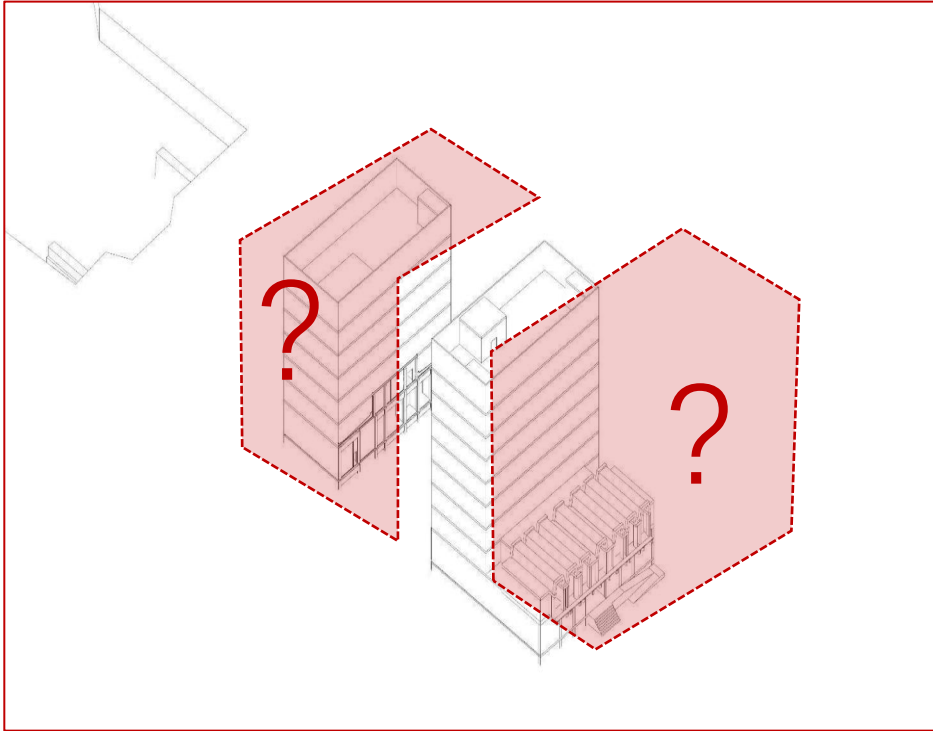
P2
80m

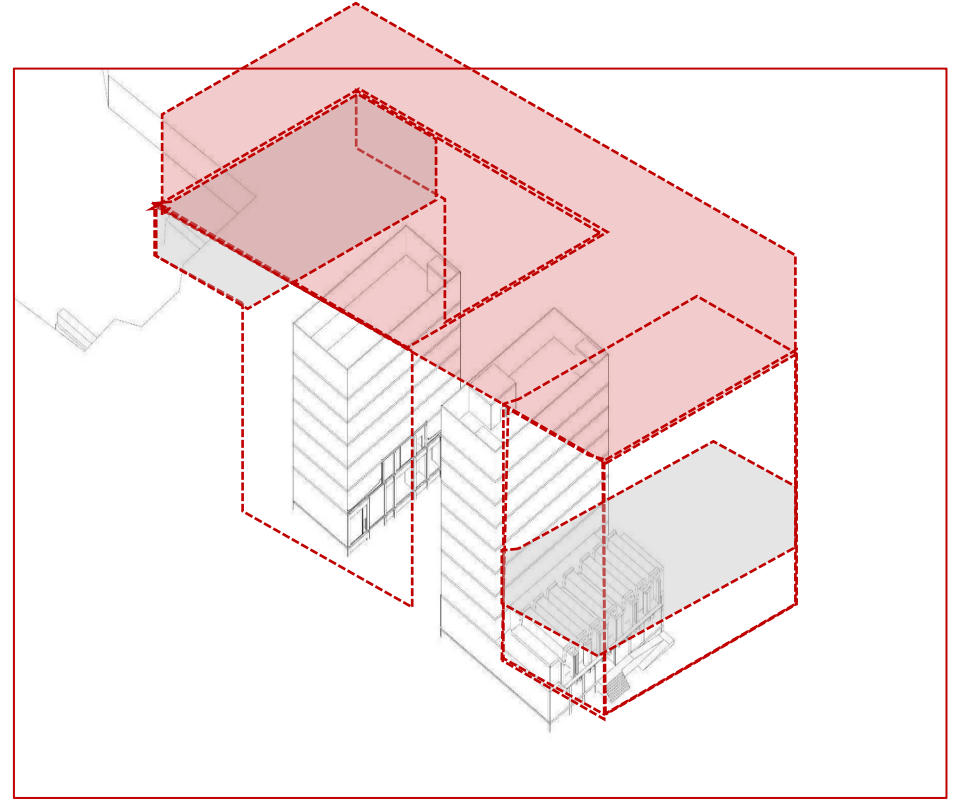
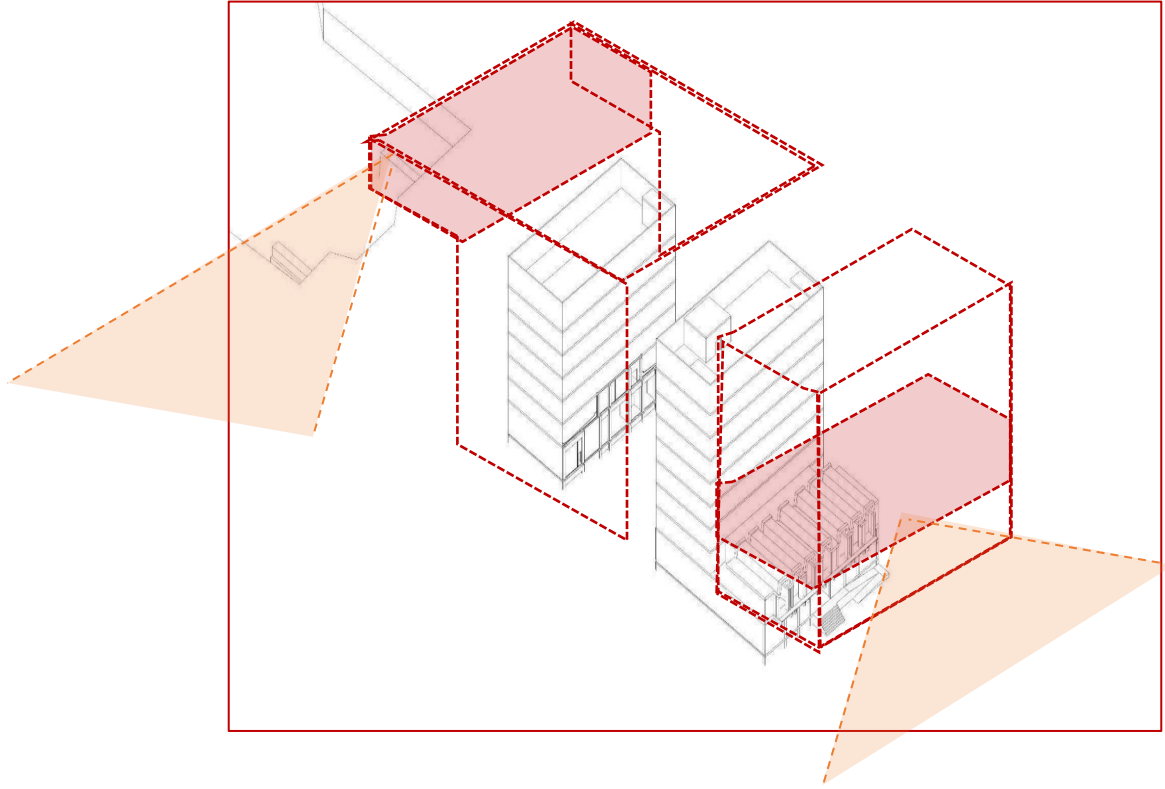


P3
60m

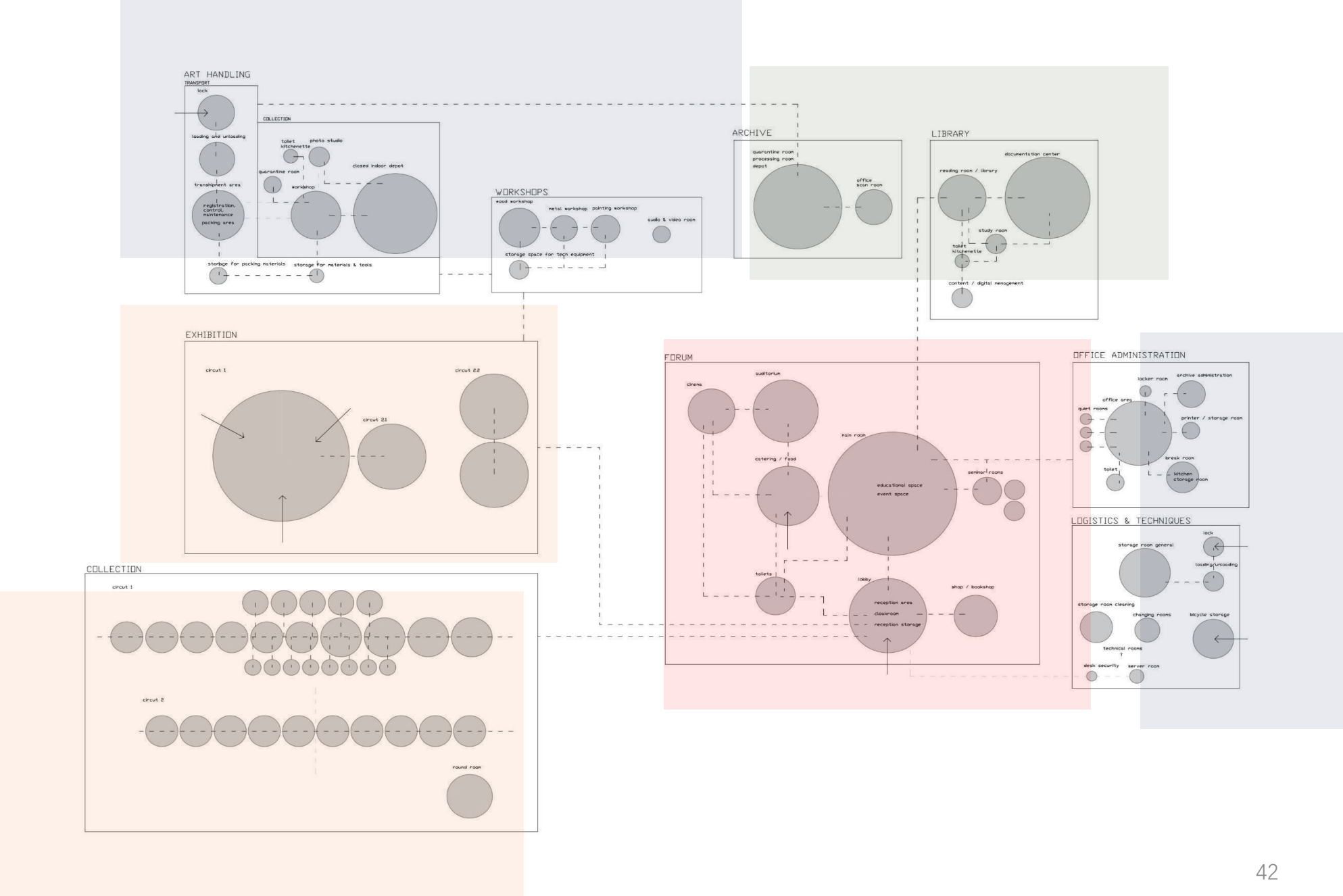


P4
46m

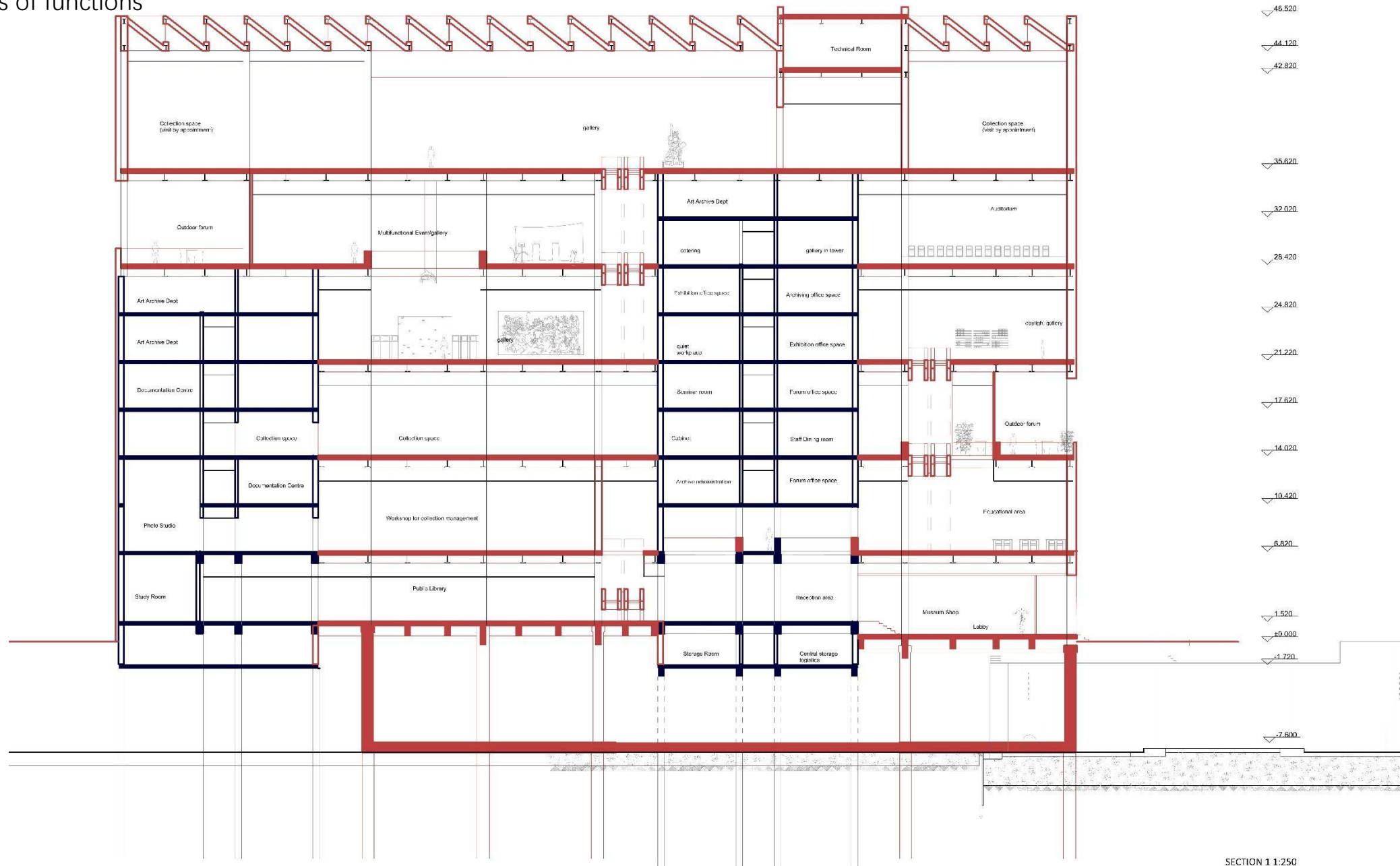




Analysis of the brief

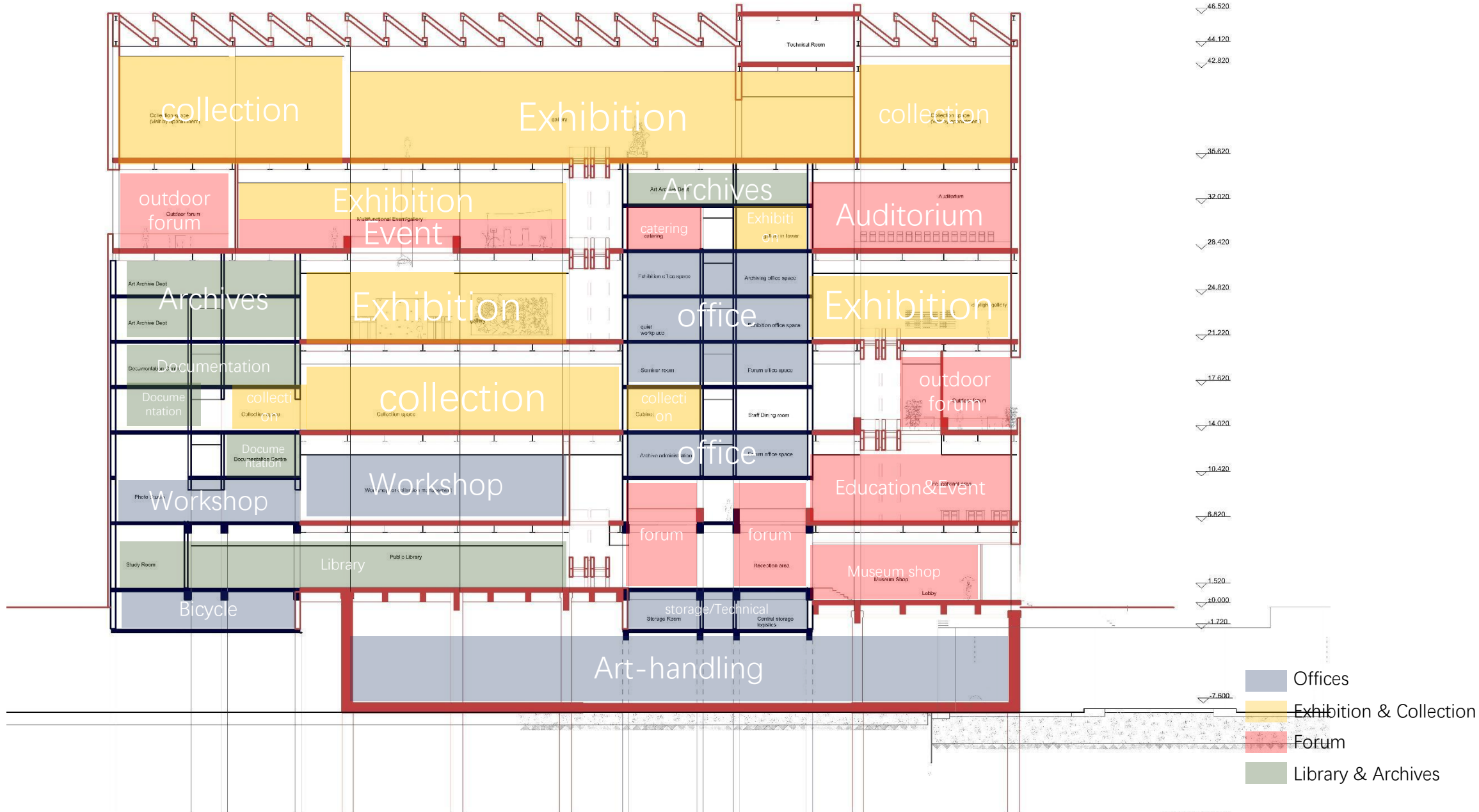


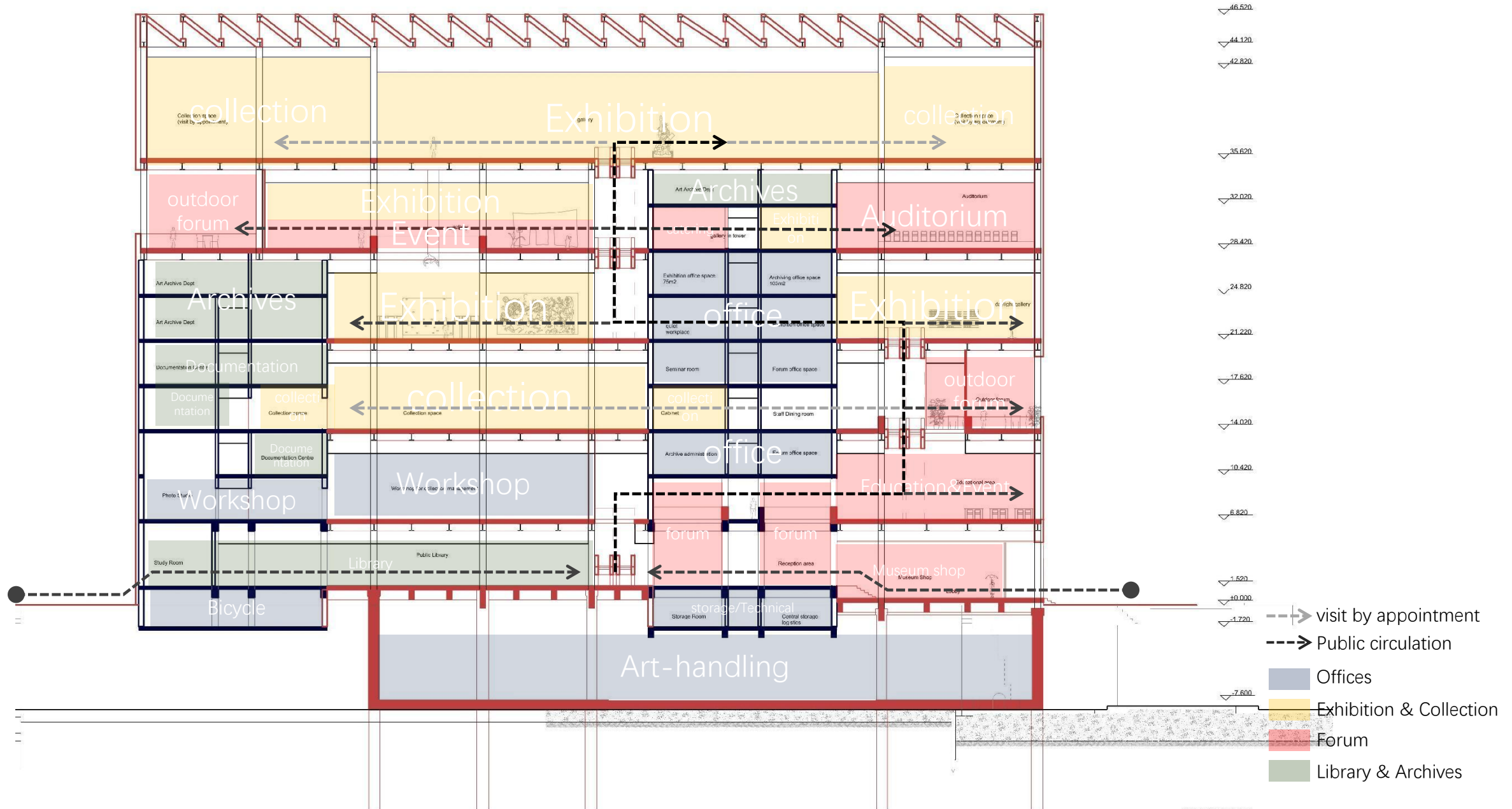
Analysis of functions



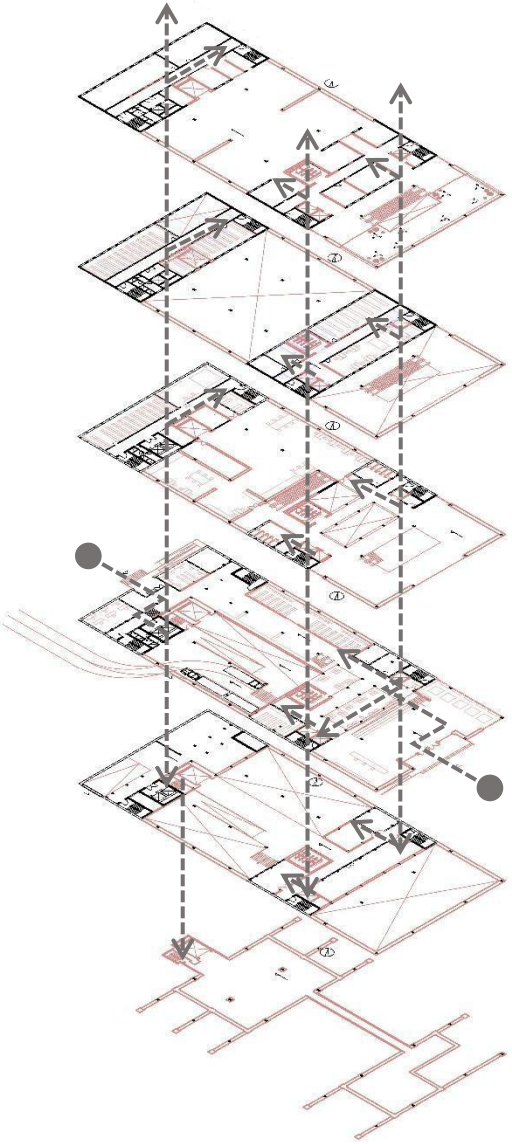
SECTION 1 1:250

Analysis of functions

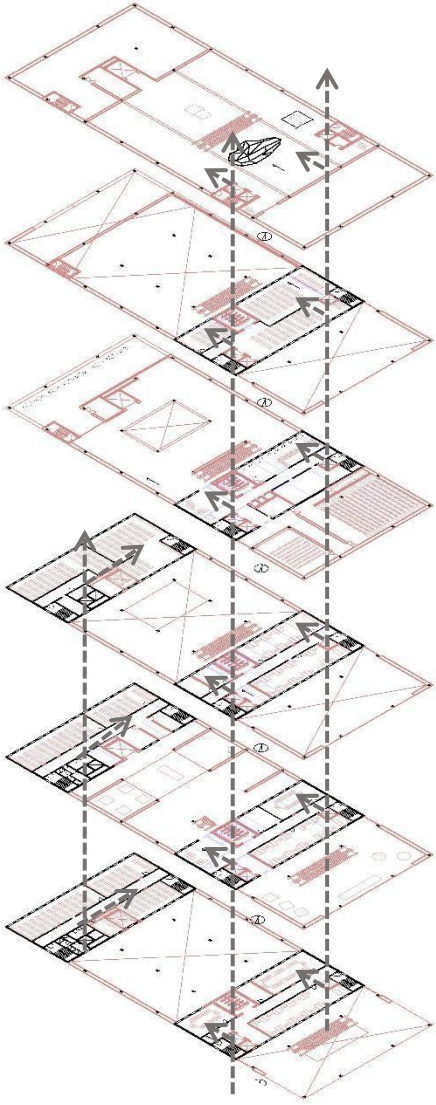




Circulation: staff

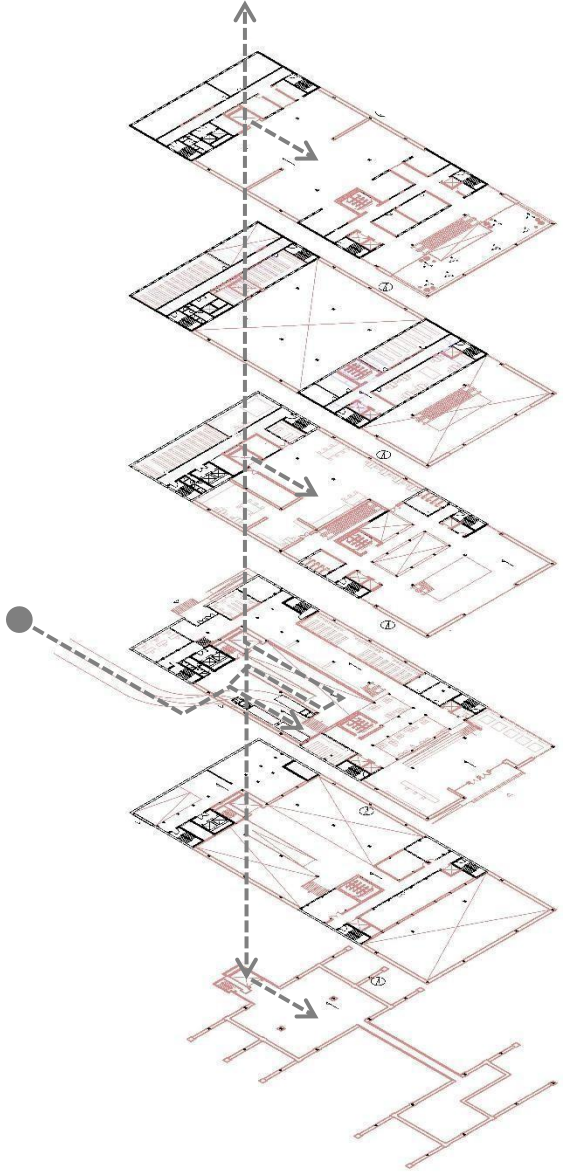


6



----> staff circulation

Circulation: Art

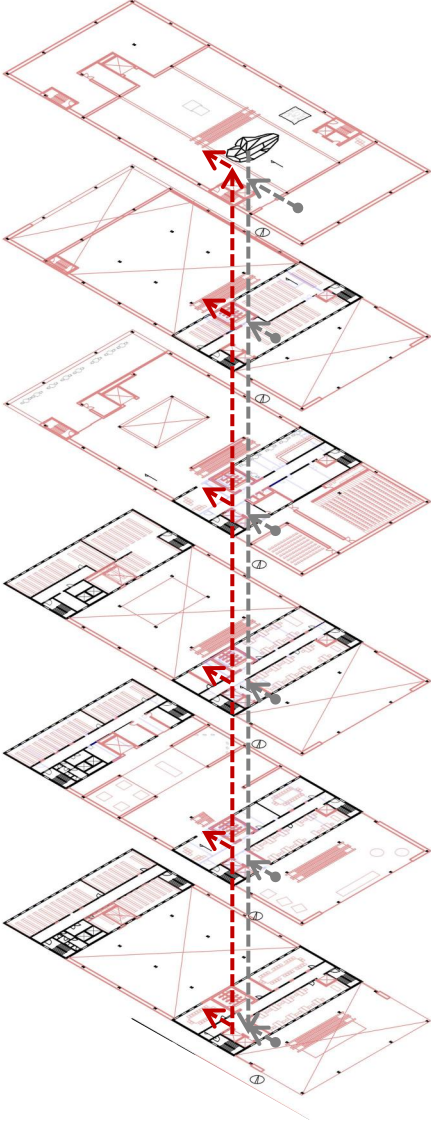
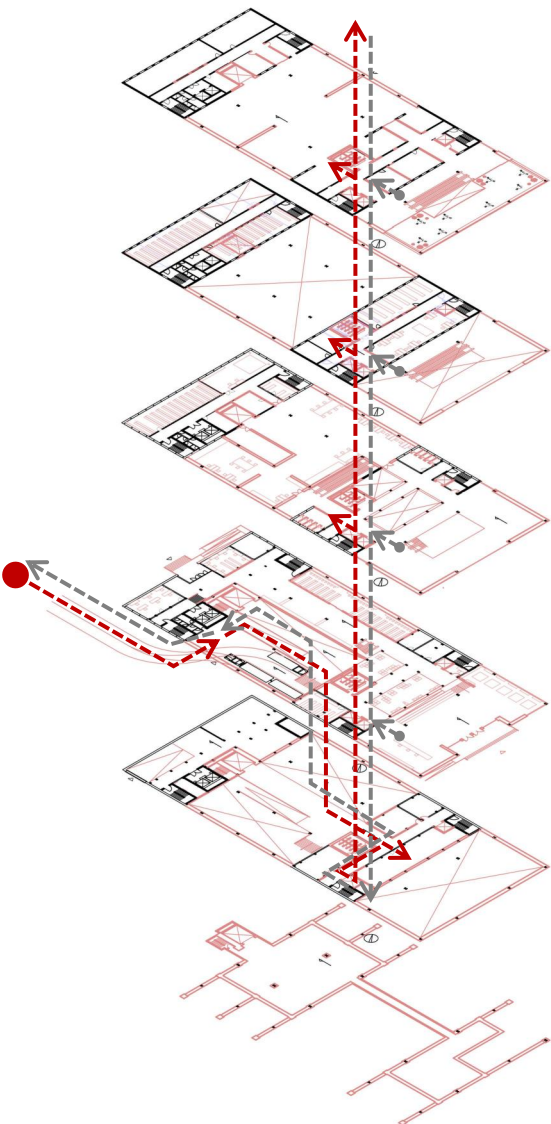


6



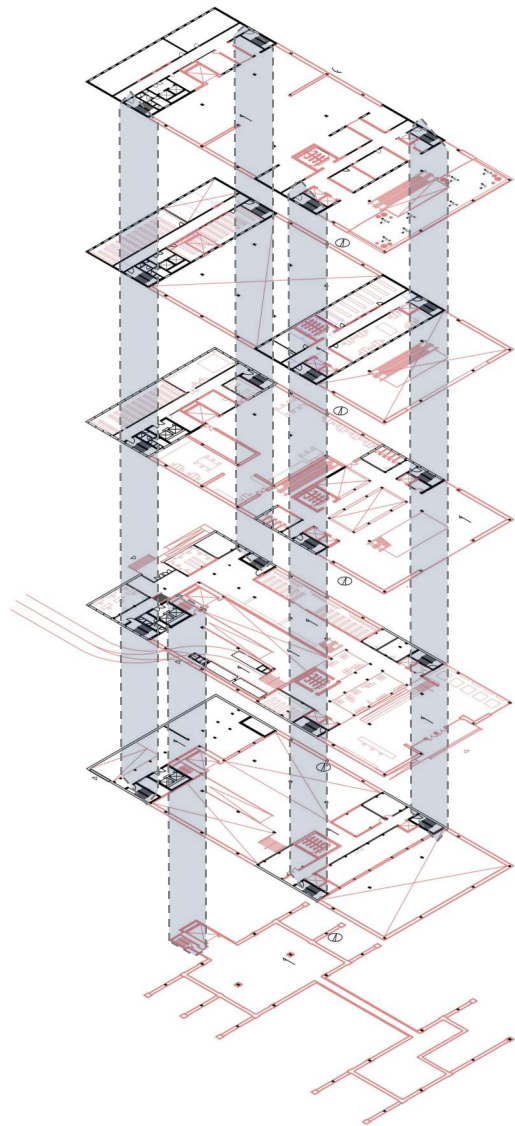
----> Art circulation

Circulation: logistics & refuses

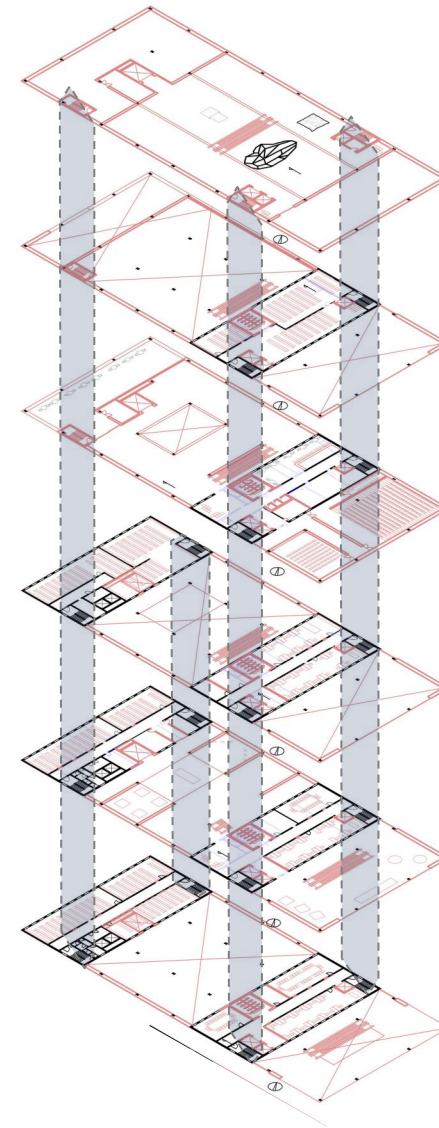


---> refuses
- - -> logistics

fire escape strategy



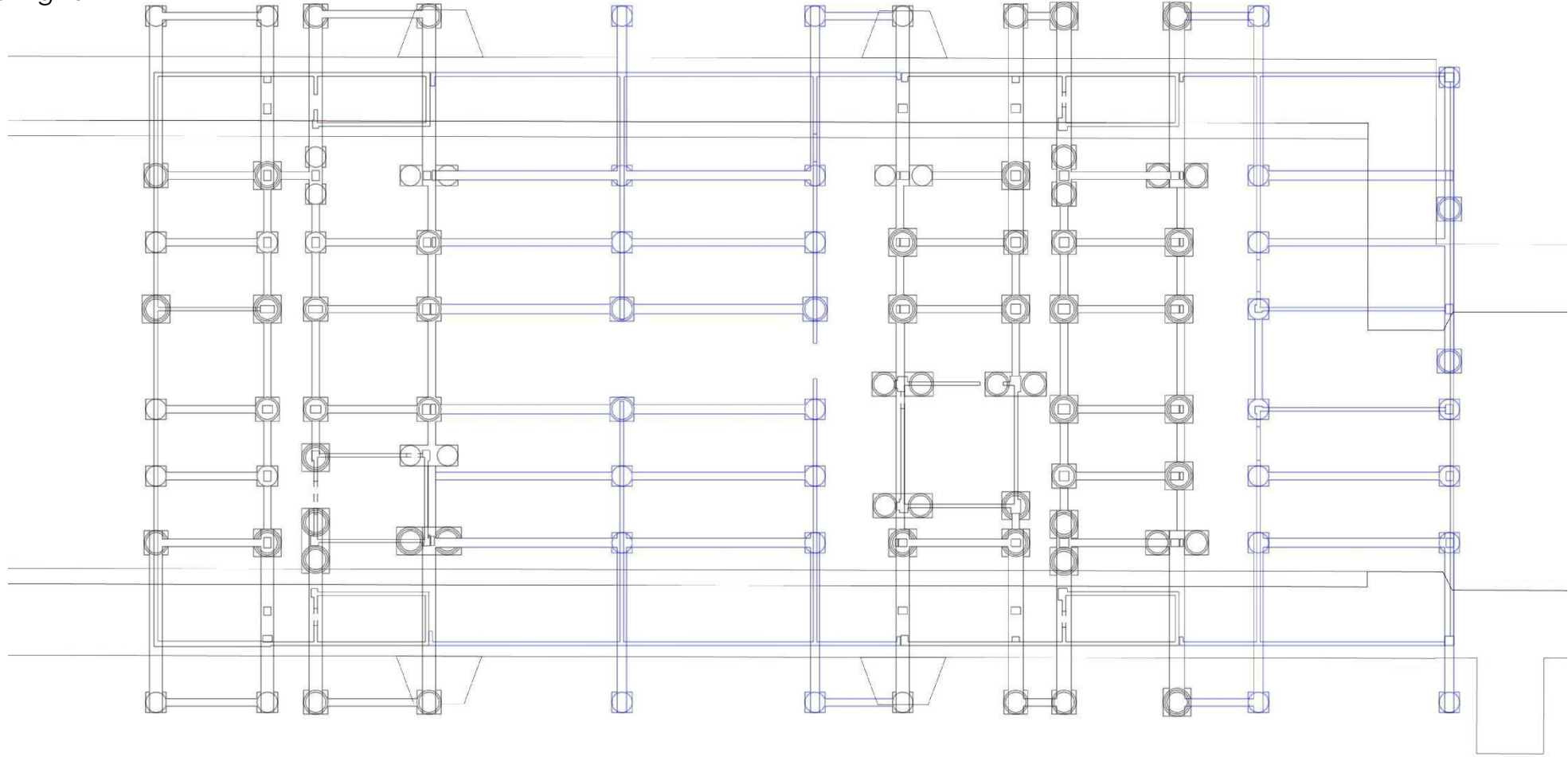
④



fire escape

06 function & plan

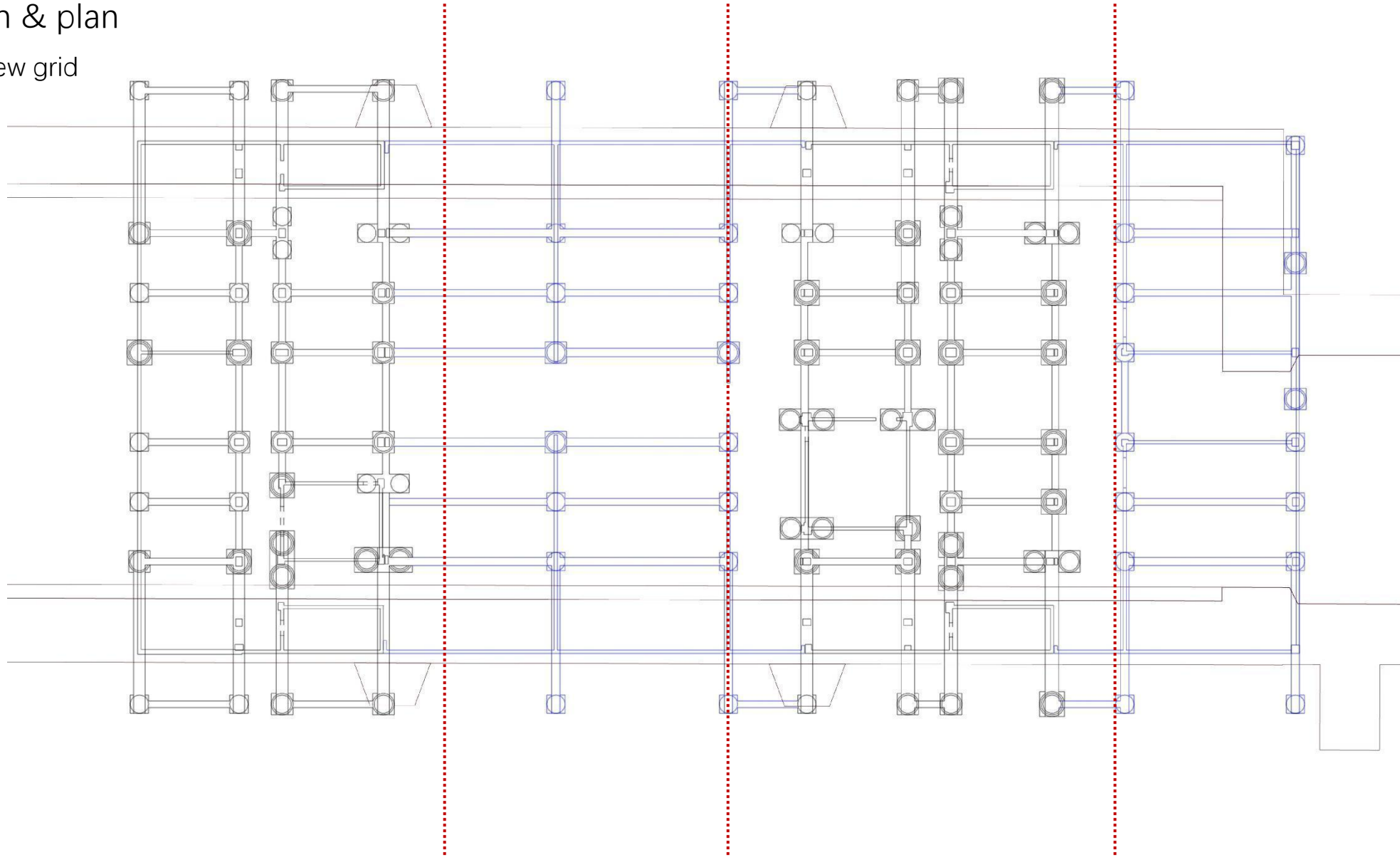
Old & New grid



existing foundation

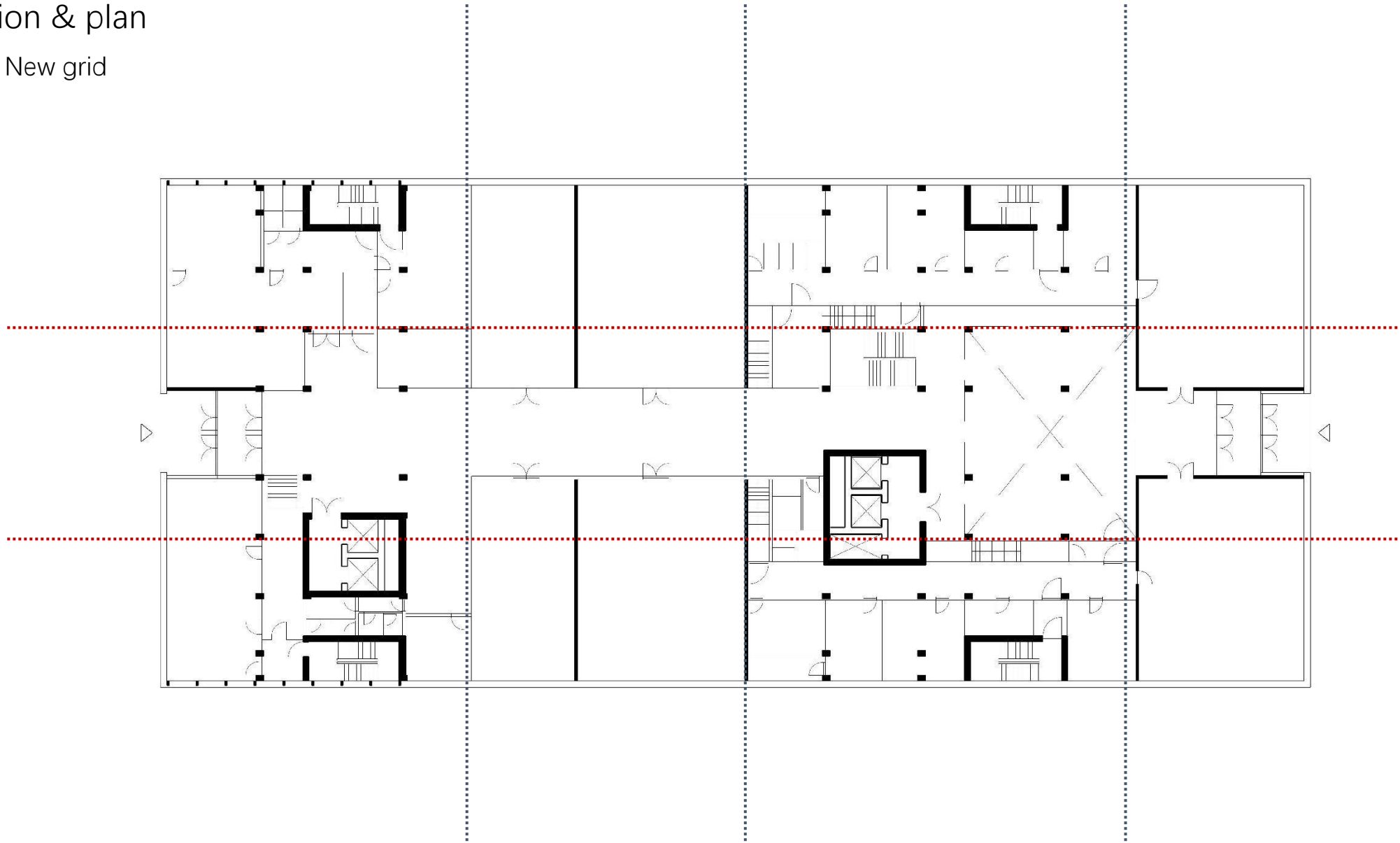
function & plan

Old & New grid



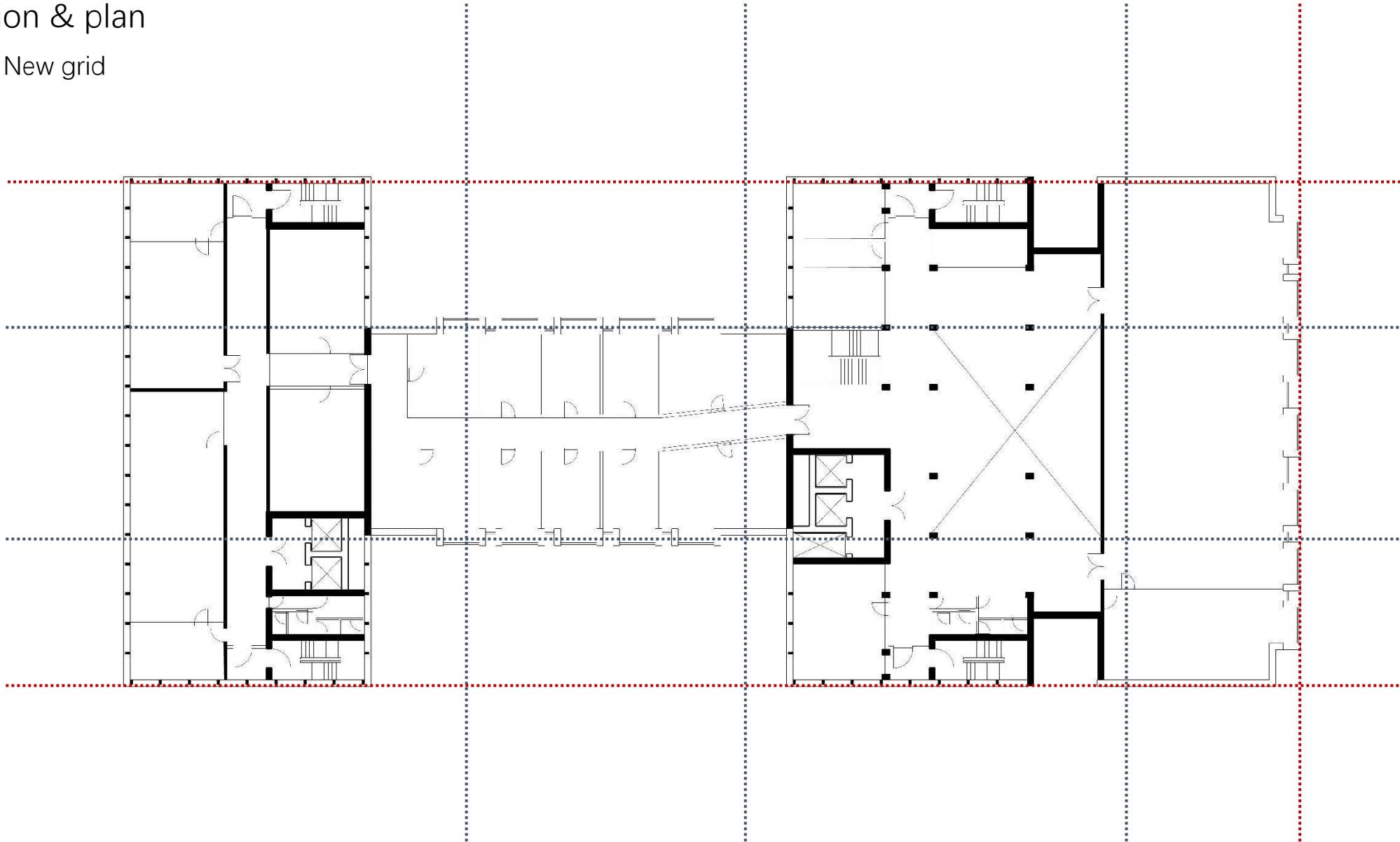
function & plan

Old & New grid



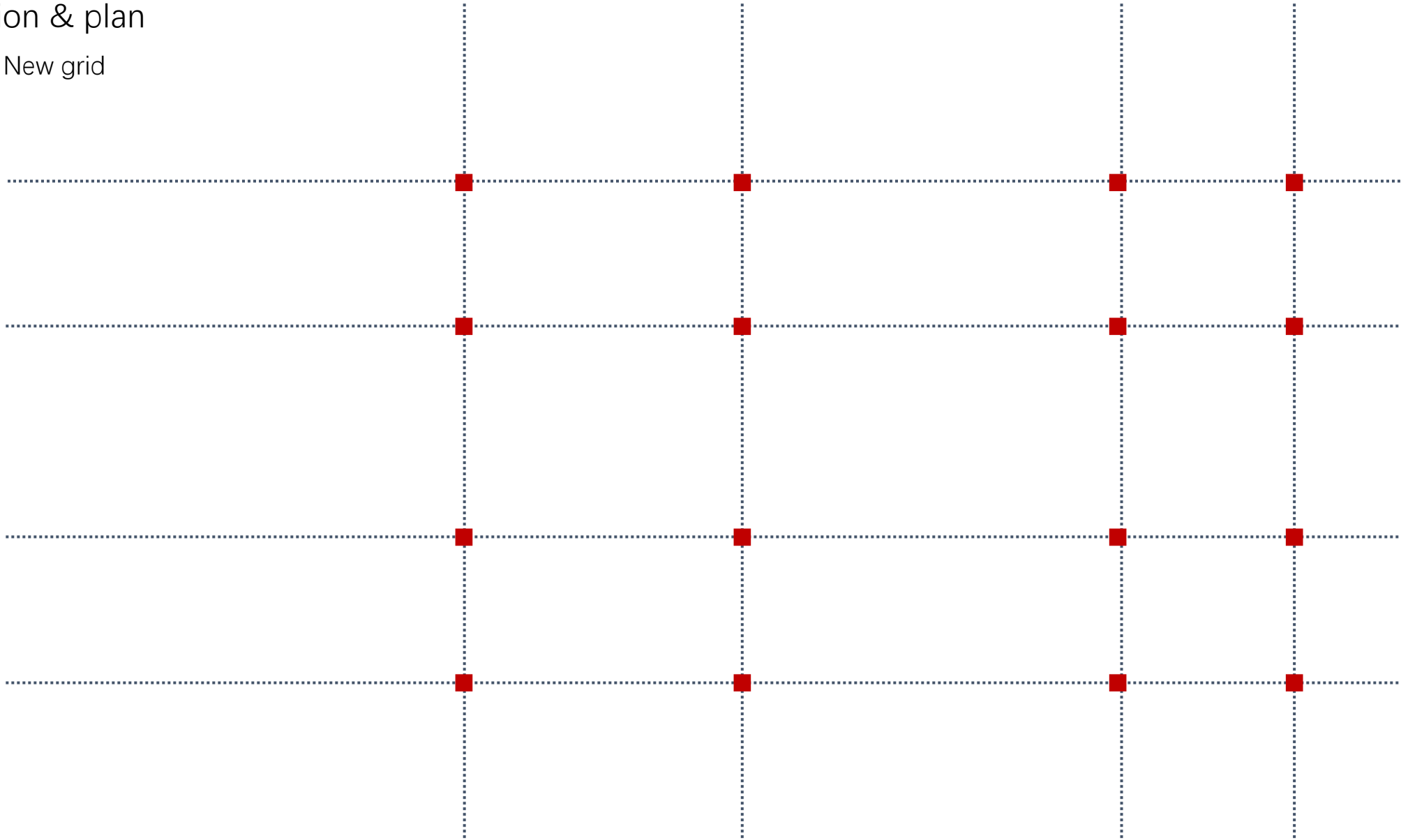
function & plan

Old & New grid

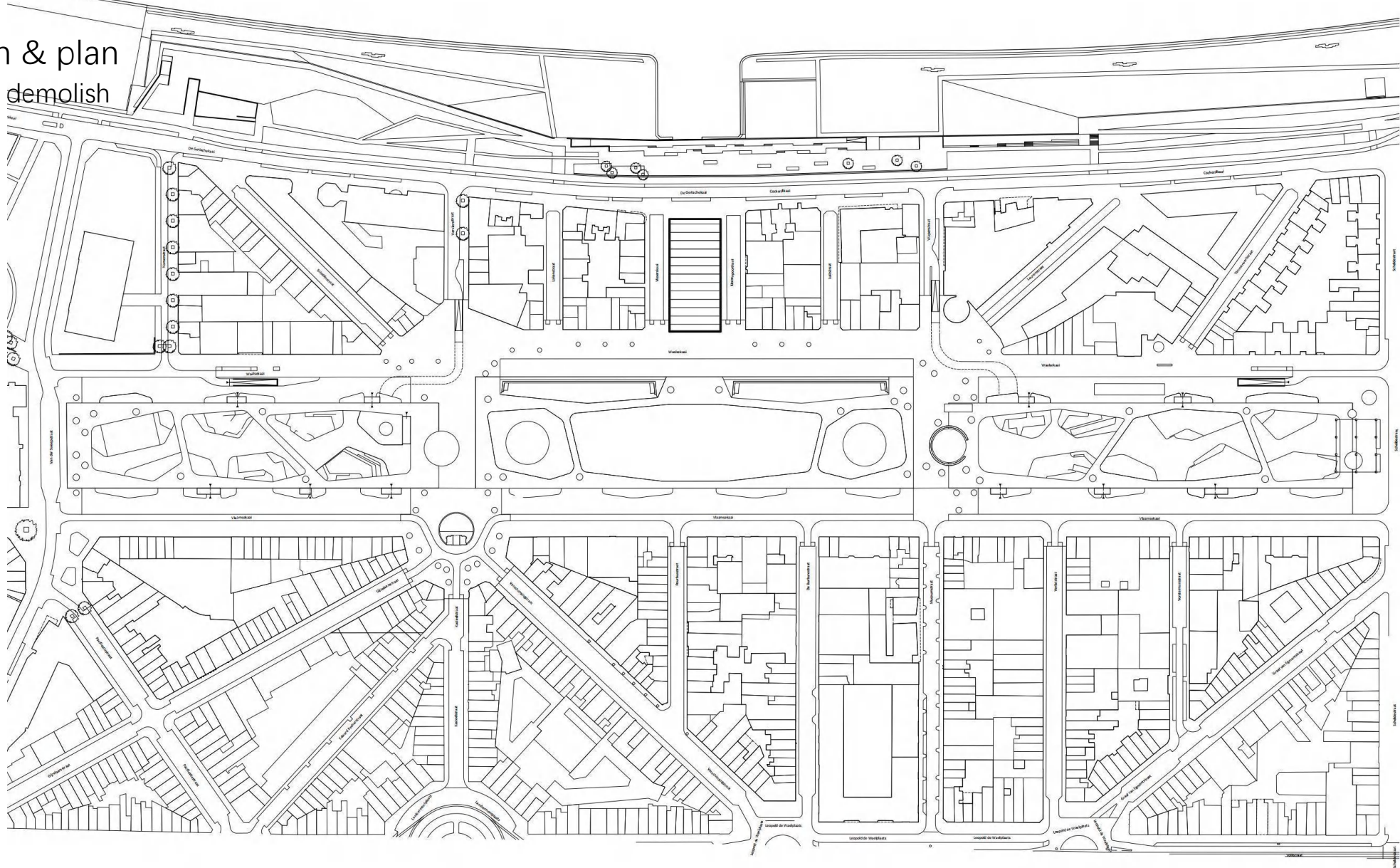



function & plan

Old & New grid

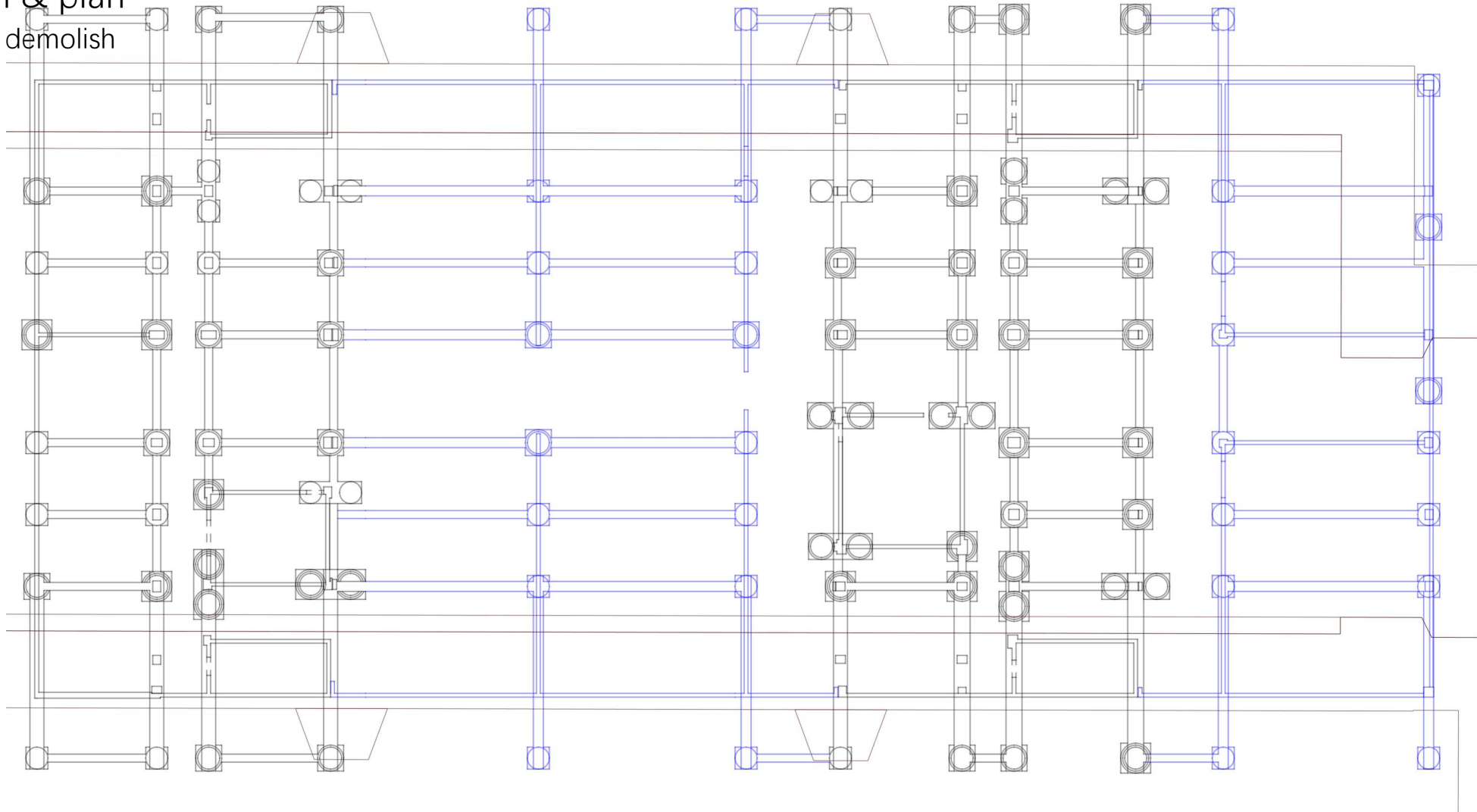


function & plan
inherit & demolish

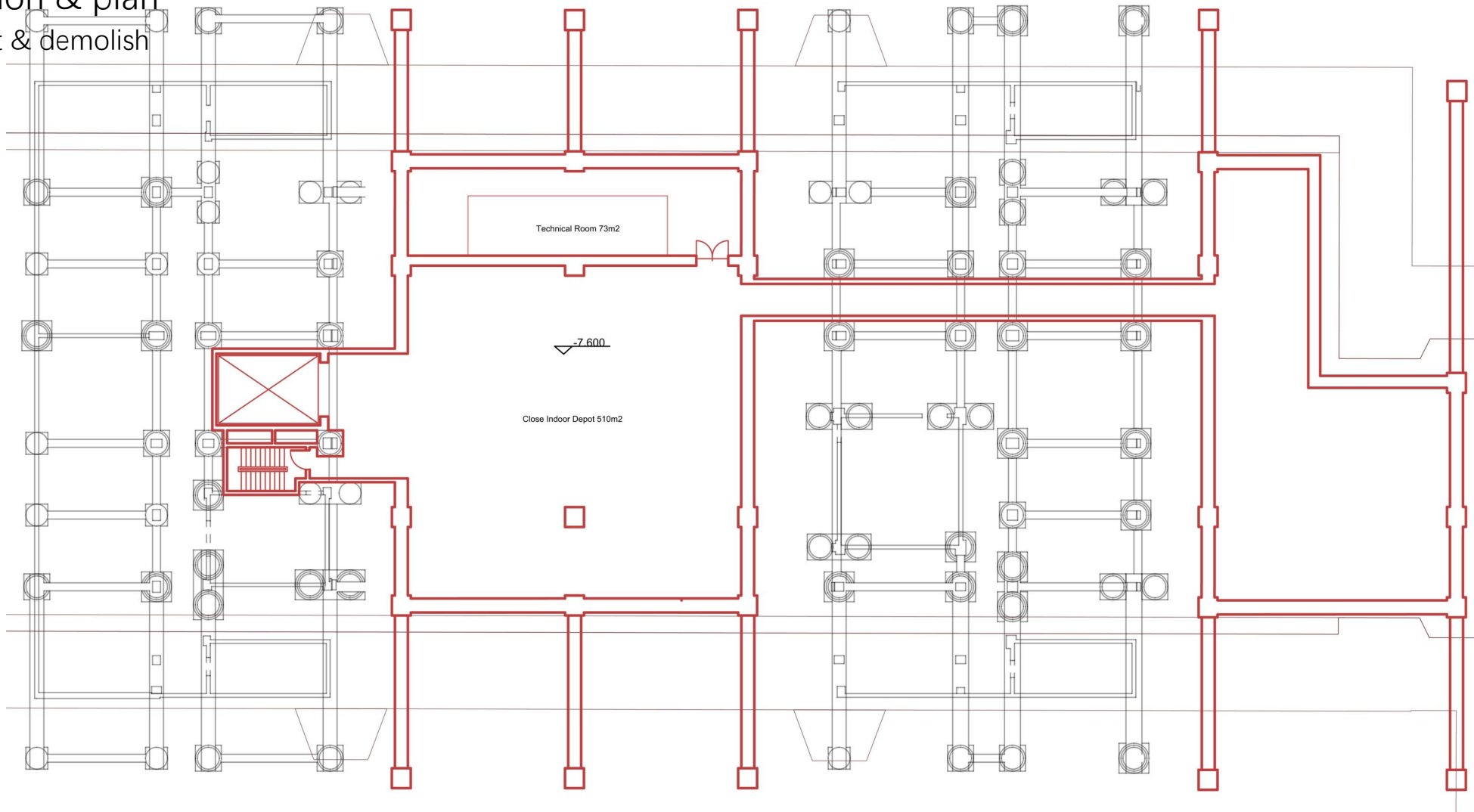


 master plan 1:2000

function & plan
inherit & demolish

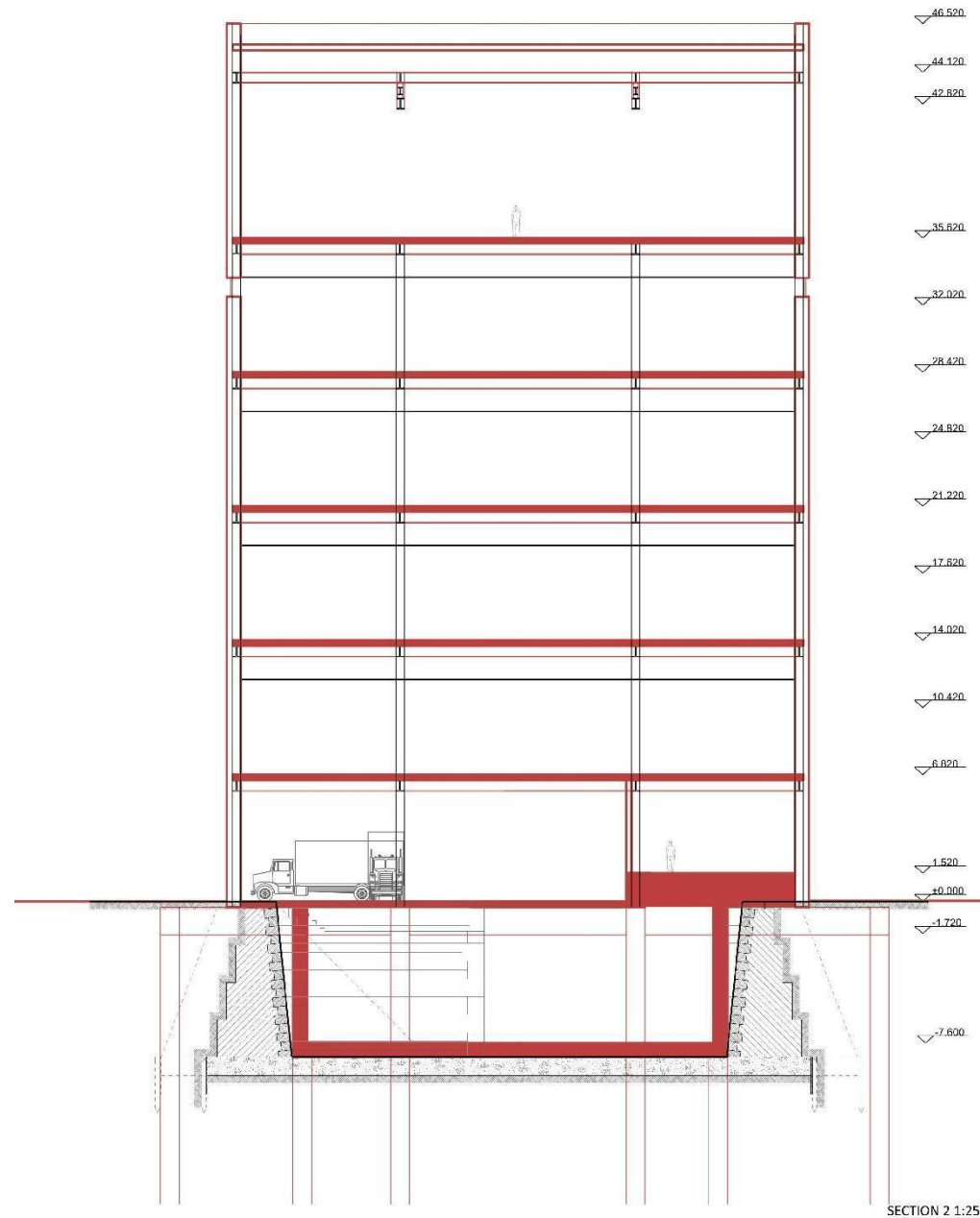


function & plan
inherit & demolish

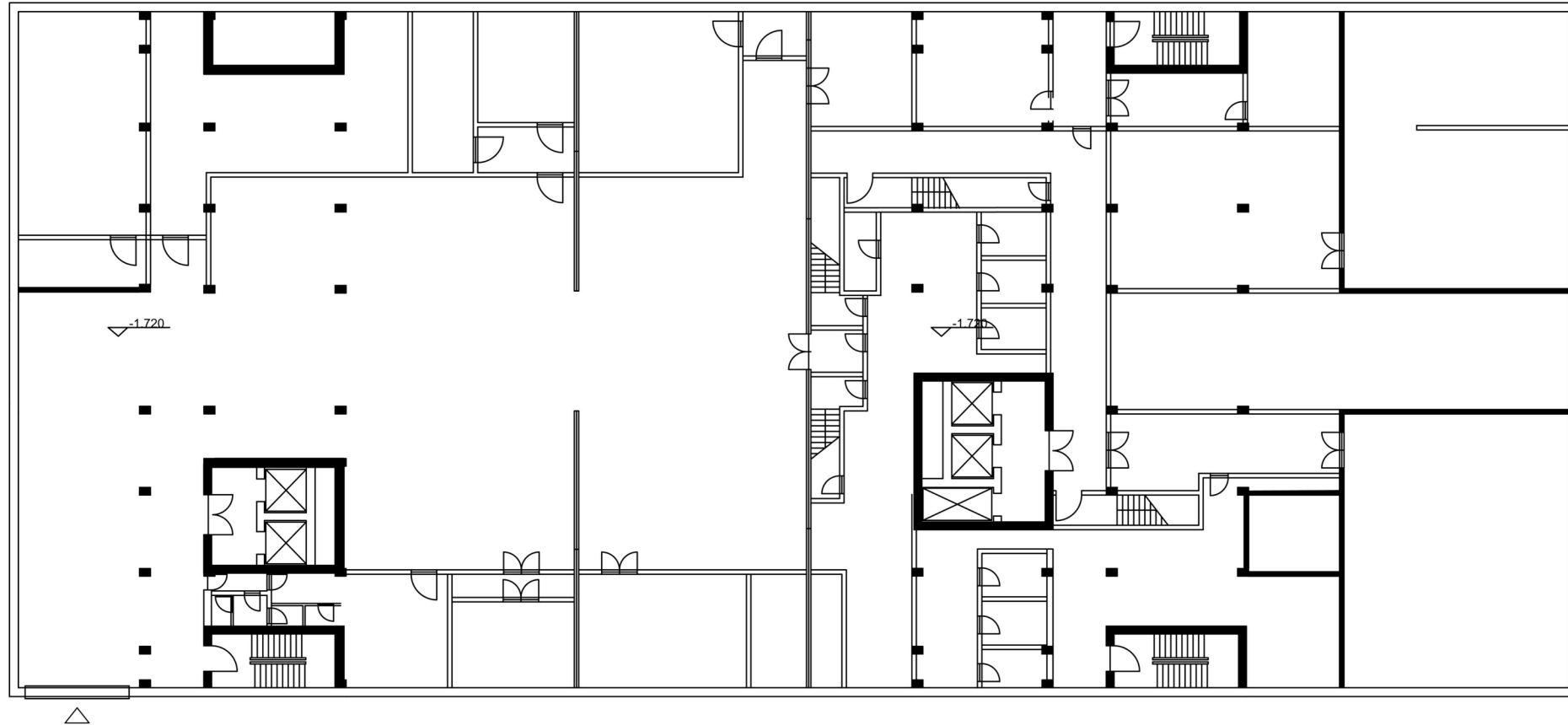


floor -2 1:250

function & plan
inherit & demolish

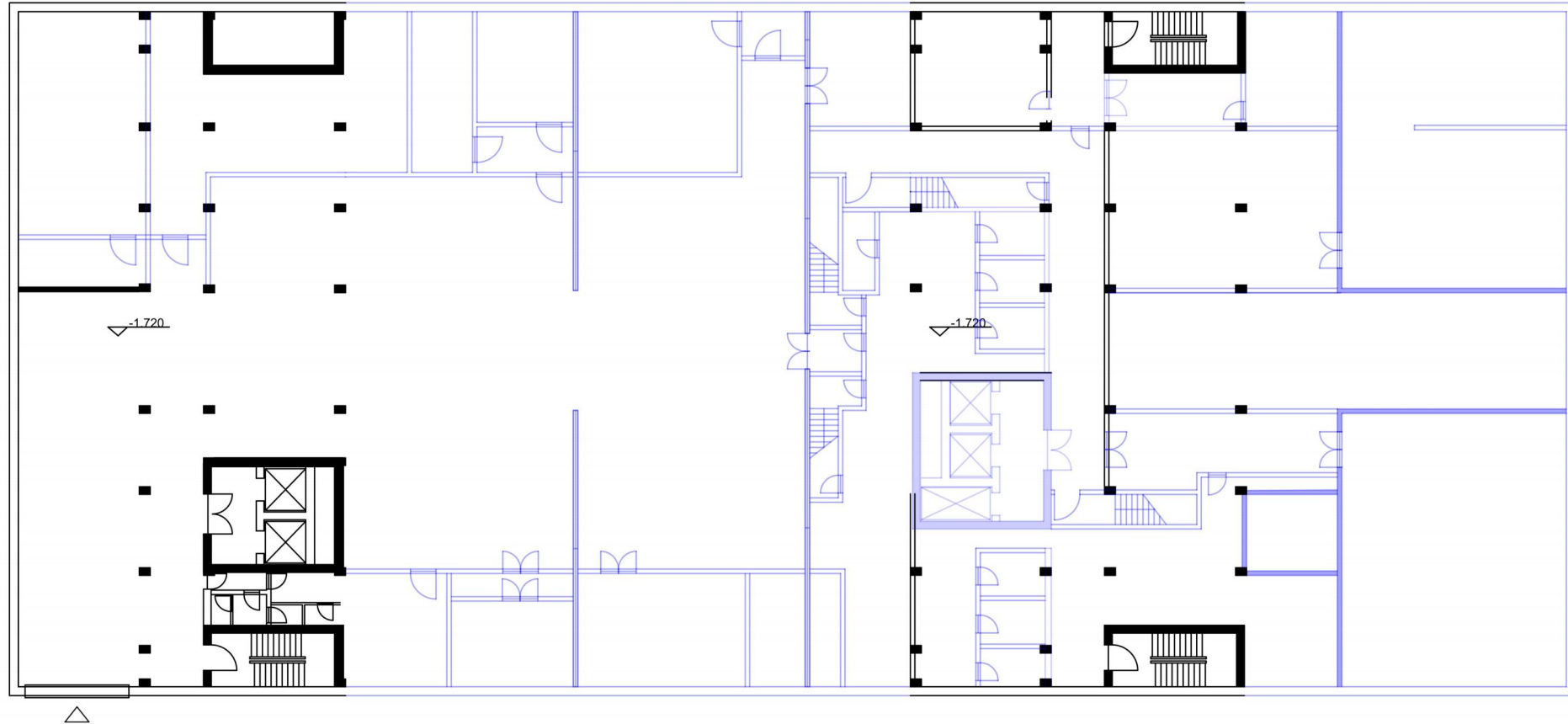


function & plan
inherit & demolish



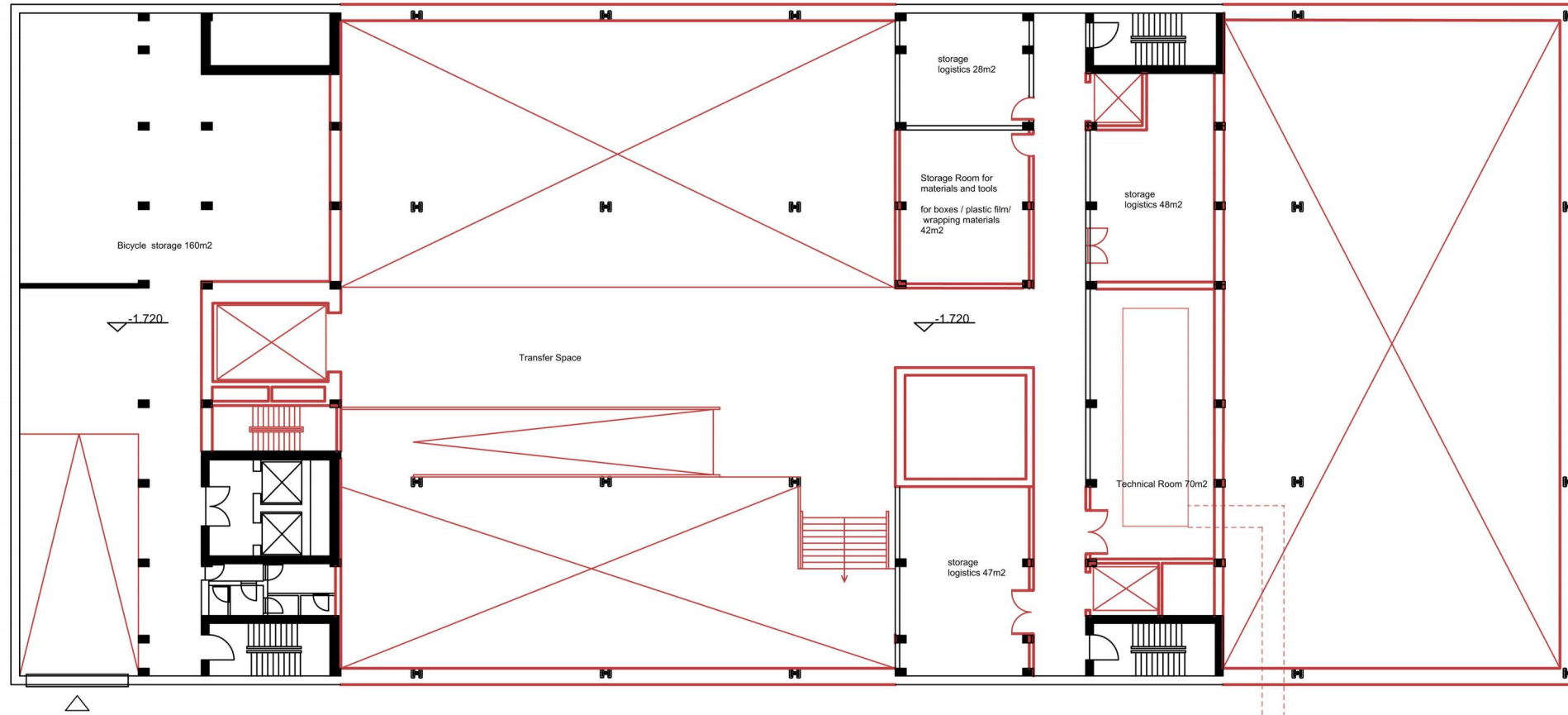
 floor -1 1:250

function & plan
inherit & demolish



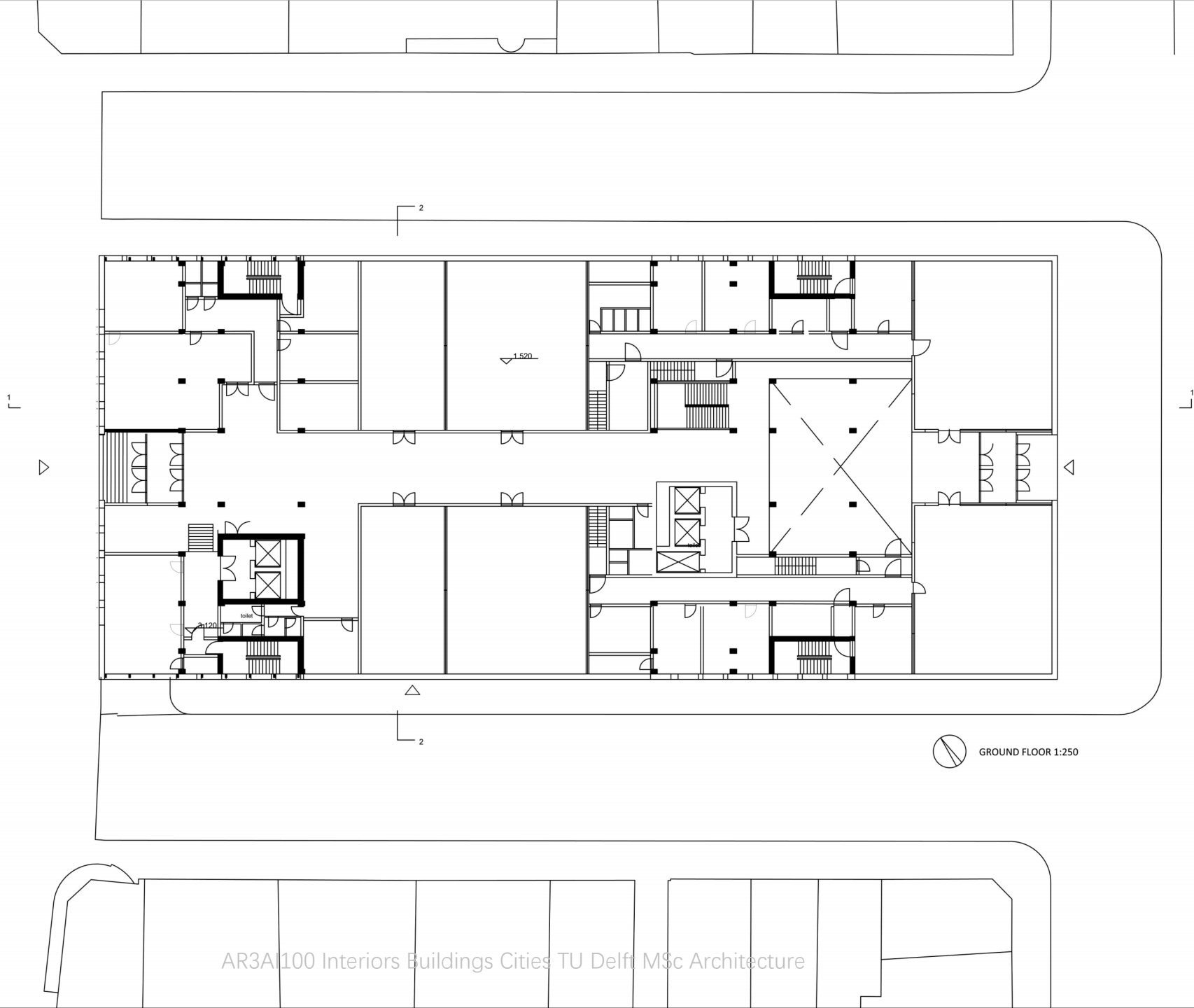
 floor -1 1:250

function & plan
inherit & demolish



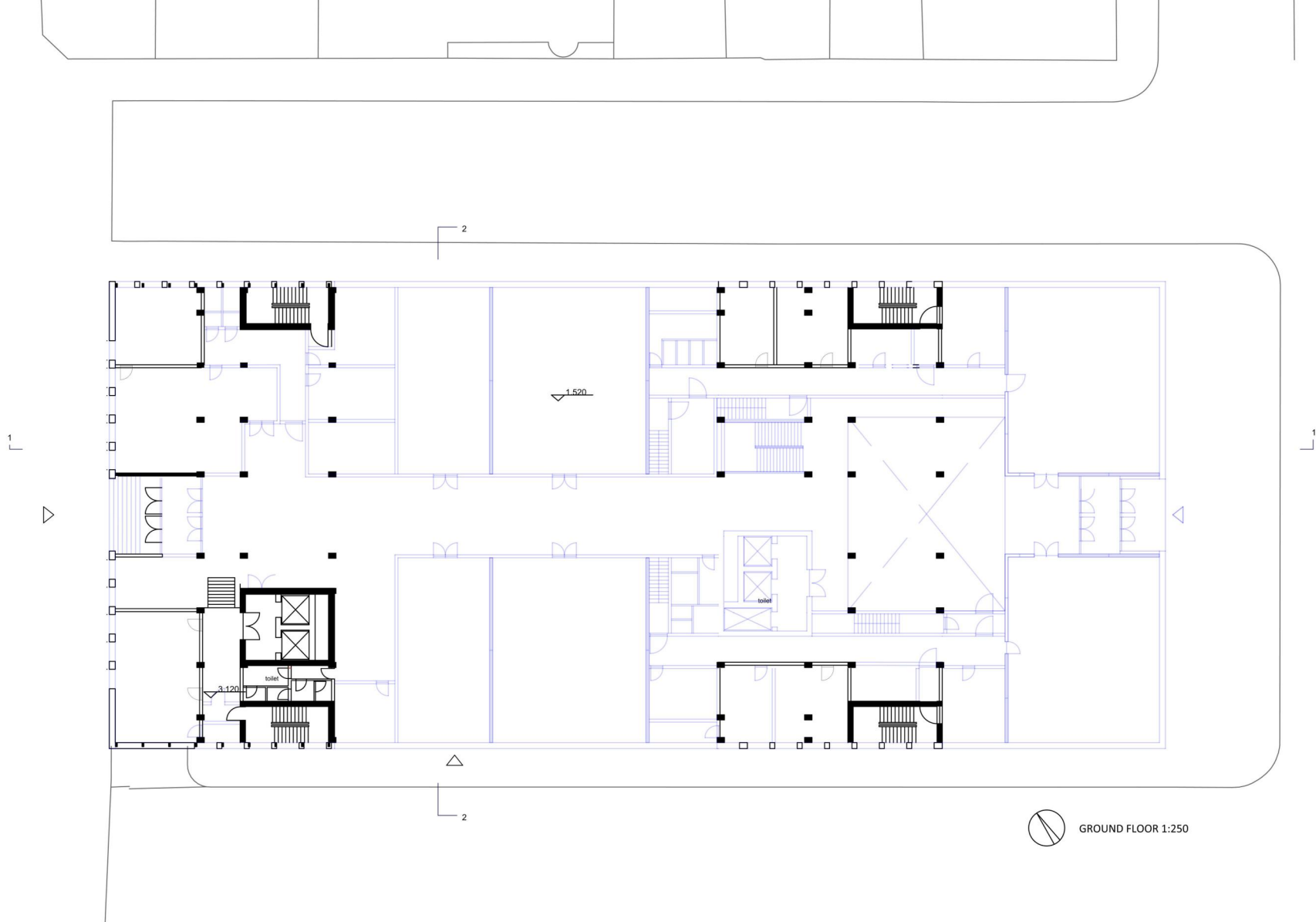
 floor -1 1:250

function & plan
inherit & demolish

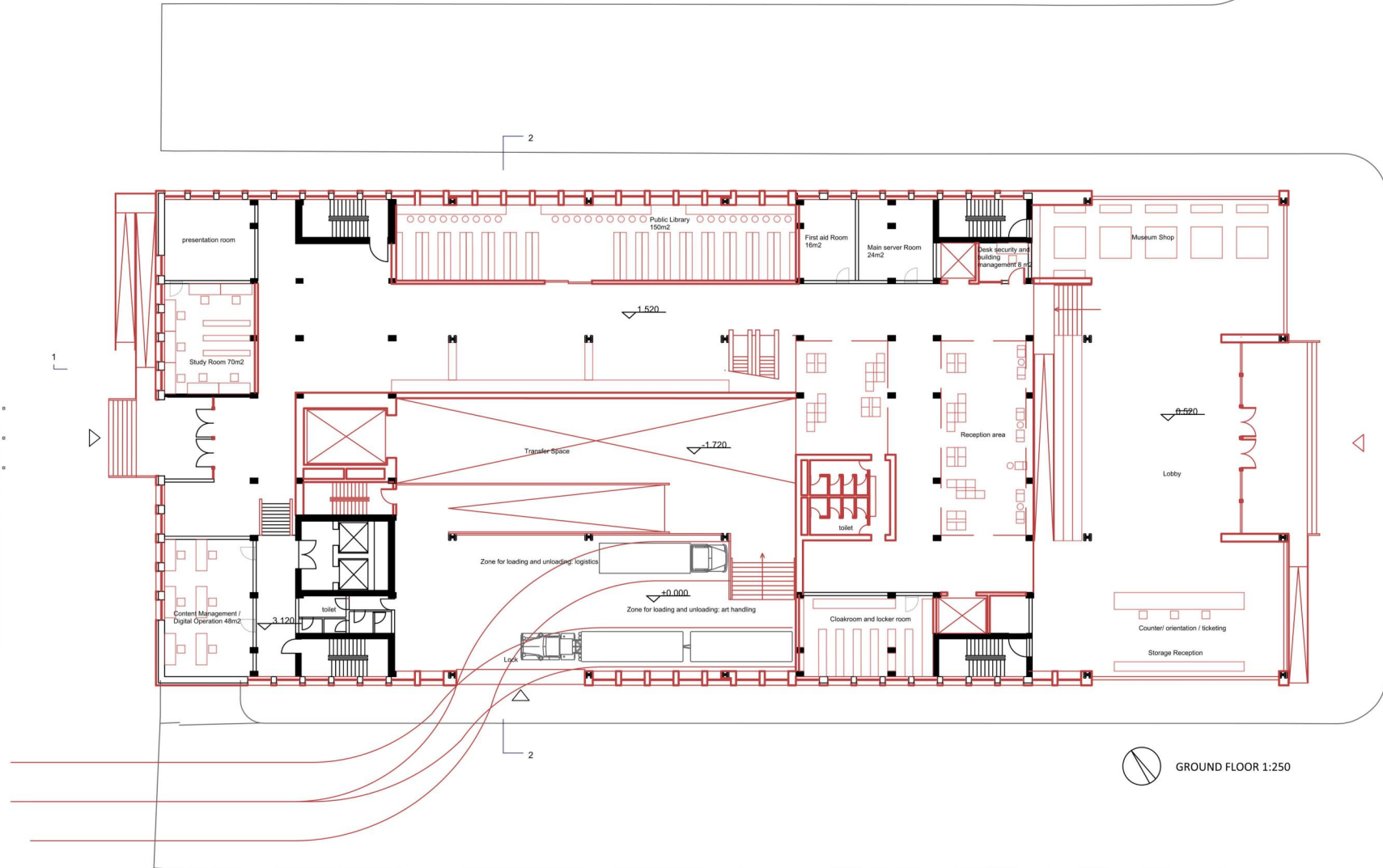


GROUND FLOOR 1:250

function & plan
inherit & demolish



function & plan
inherit & demolish



function & plan
inherit & demolish

Building area: 17,194m²

Artwork movement:

1.1 truck (L x W): max. 19.00
x2.55 m
turning circles:10.5m

2.Good lifts(min.8000kg) clear
passage (L x W): 5x3.5m

Logistics movement:

3.Large van (L x W) : max. 7.00x
2.50 m
turning circles: 8m

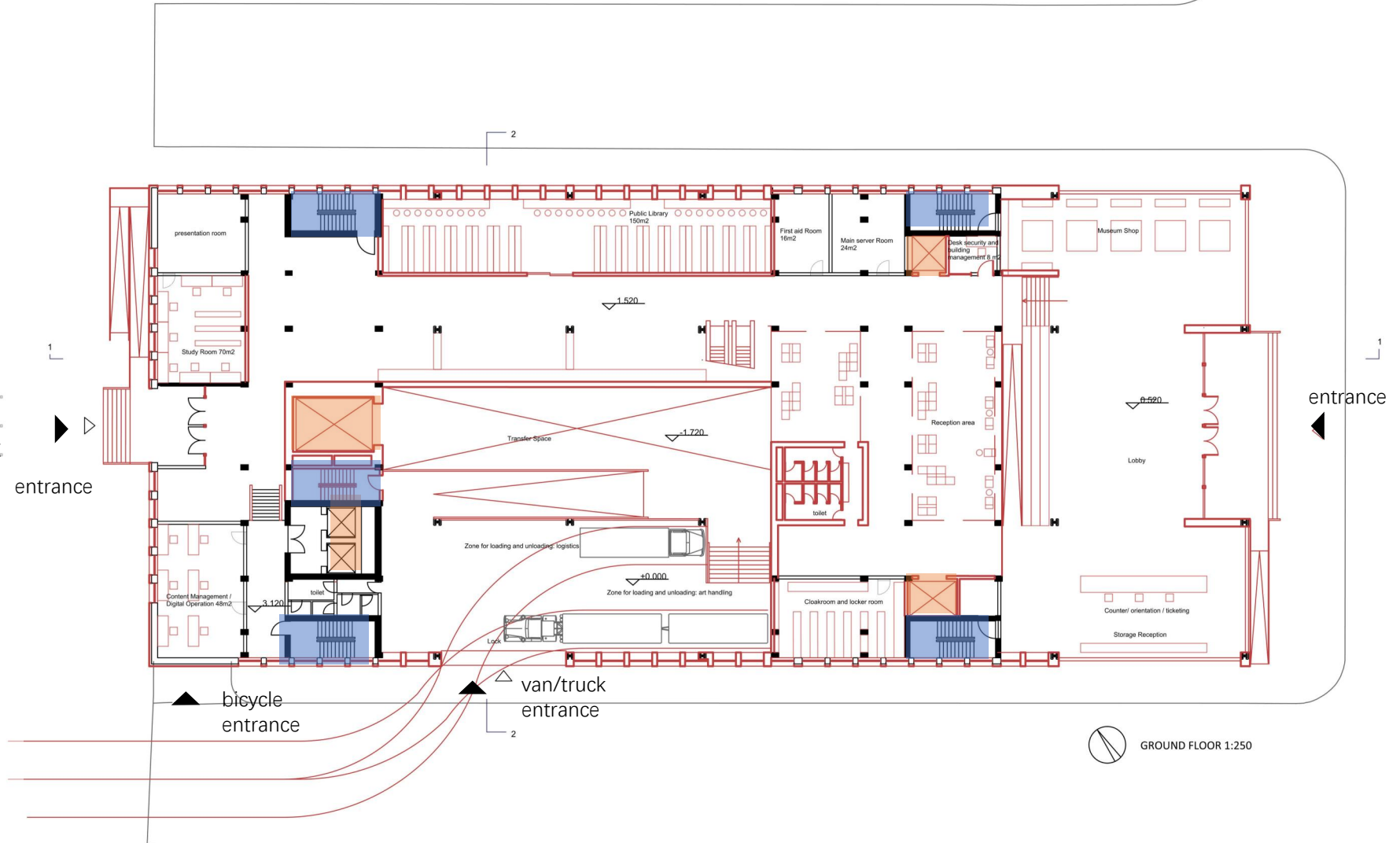
4.Goods elevator clear passage
(L x W): 3x2.2m

Visitors & Staff movement:

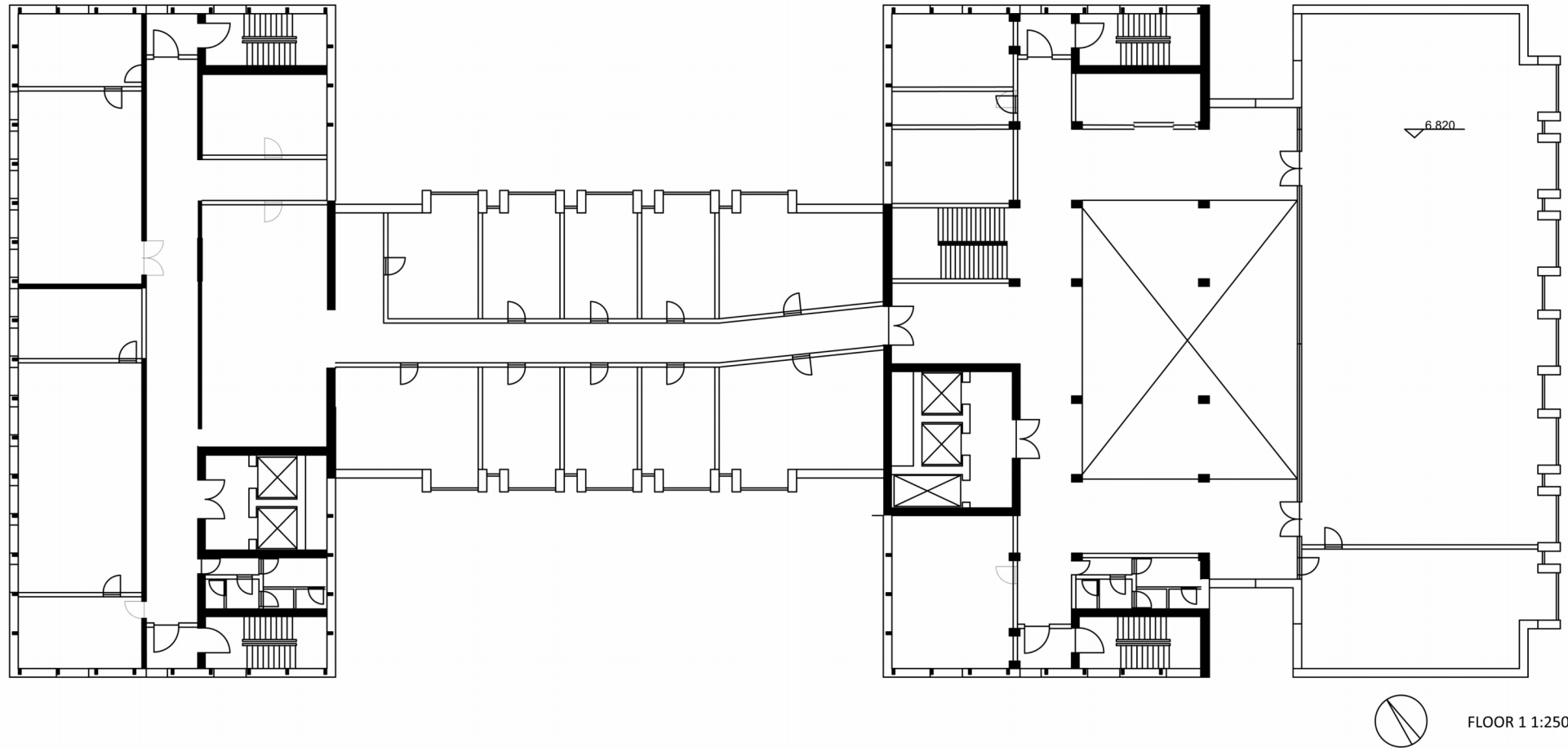
5. 3 elevators (L x W) : 2x1.8m
(+ 1 goods elevator 3x2.2m)

6. 2 escalators

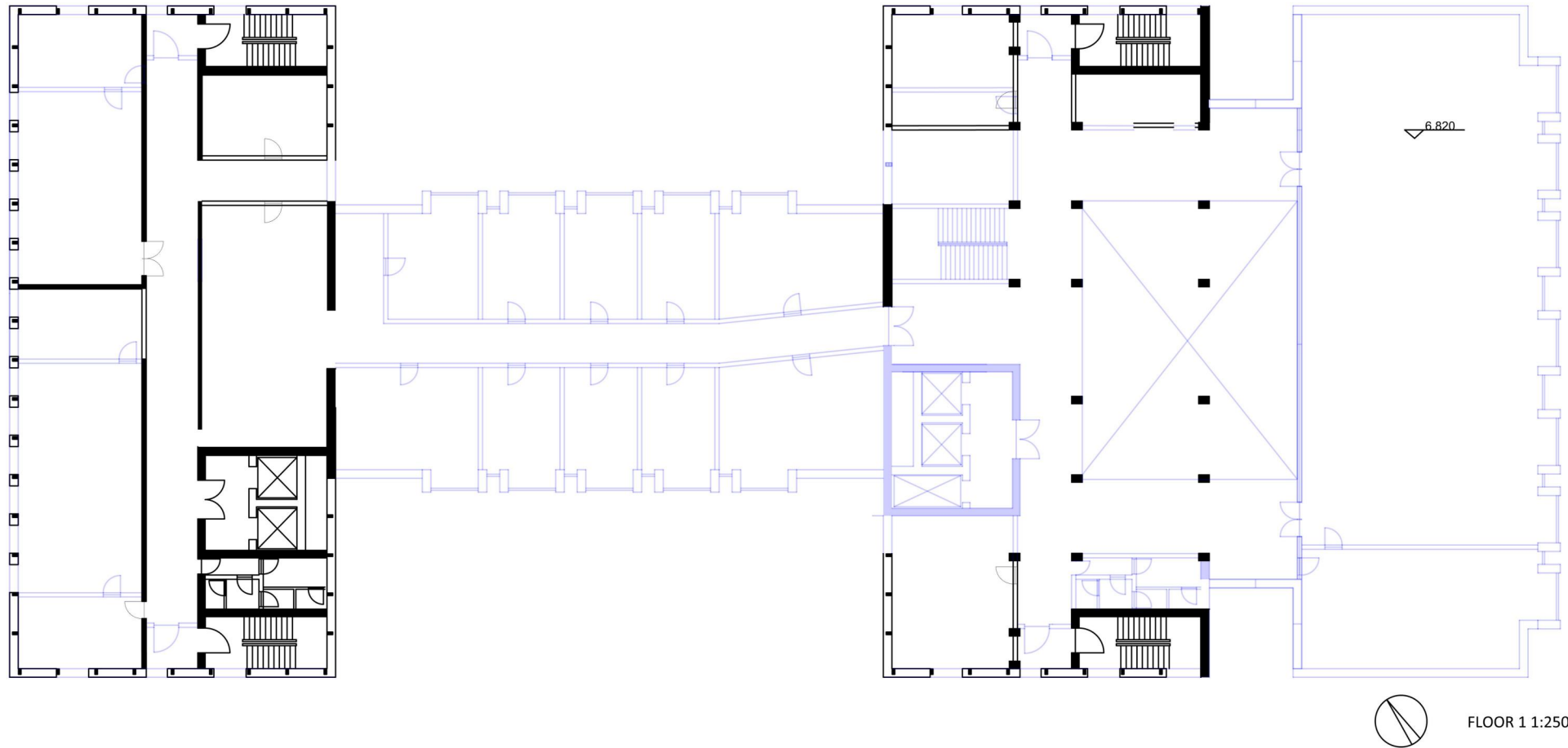
7. 4 enclosed staircases
(+1 enclosed staircase to the
underground depot)



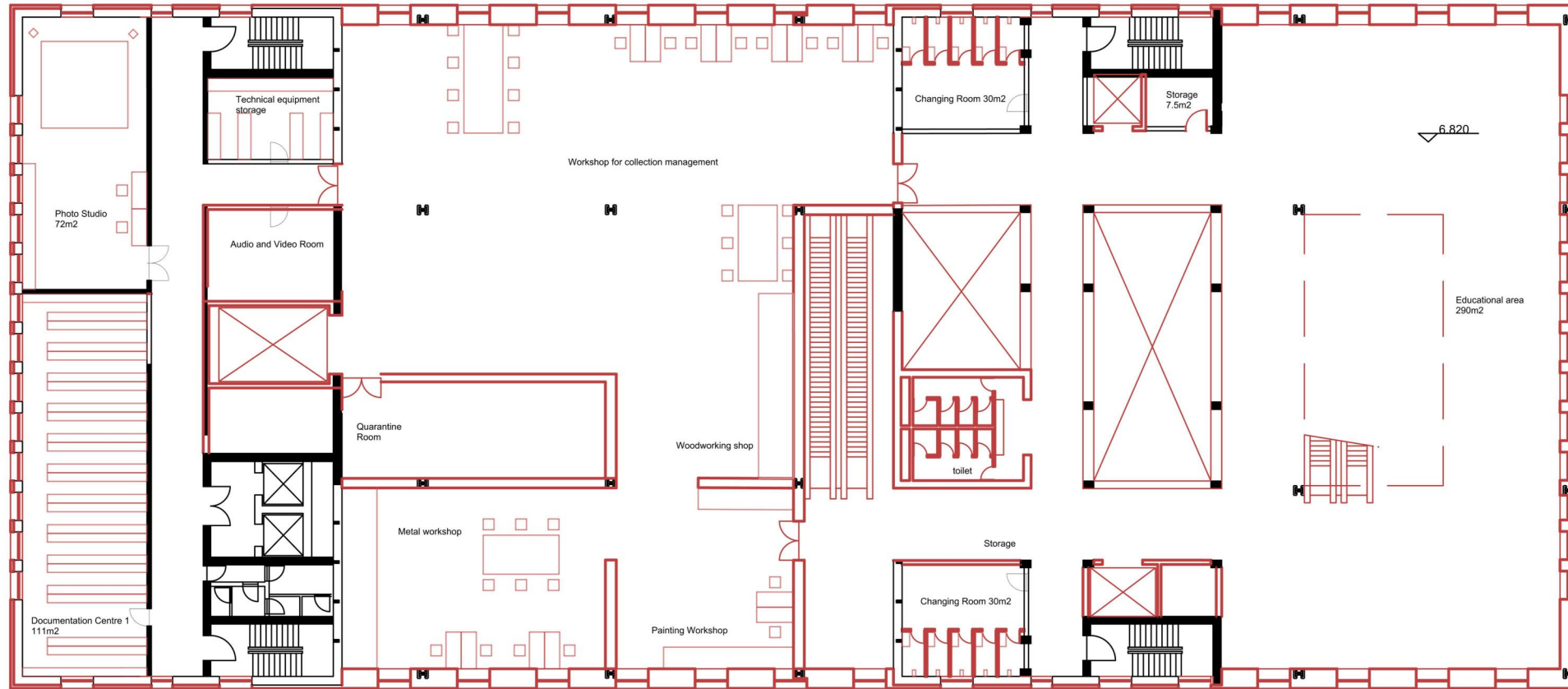
function & plan
inherit & demolish



function & plan
inherit & demolish

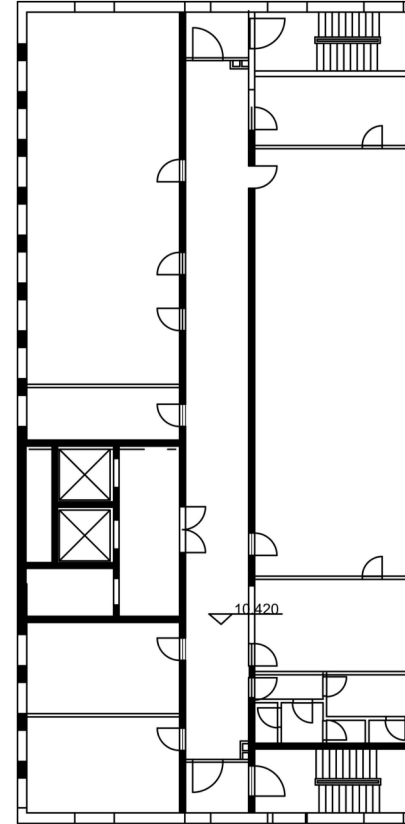
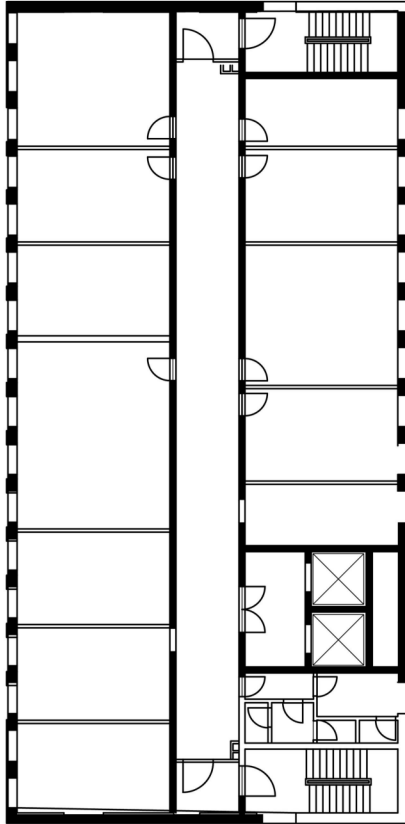


function & plan
inherit & demolish



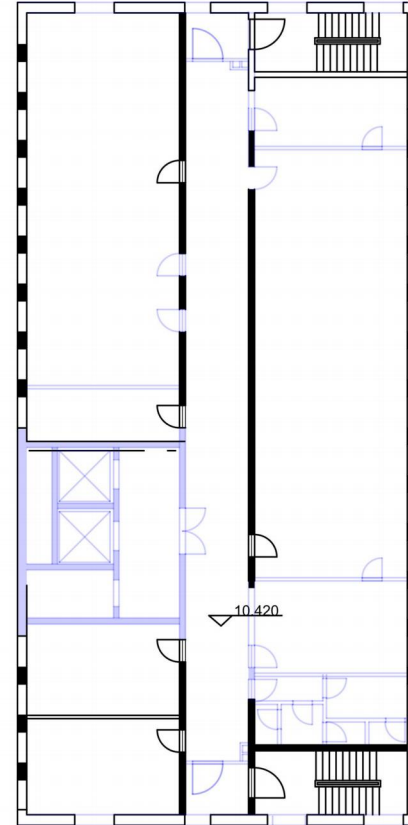
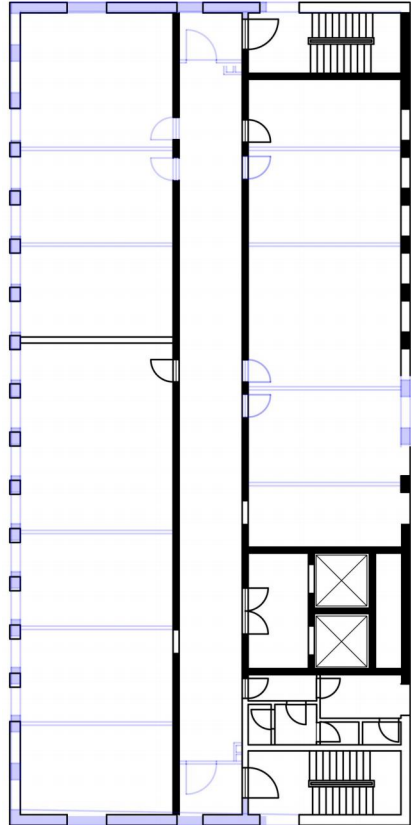
FLOOR 1 1:250

function & plan
inherit & demolish



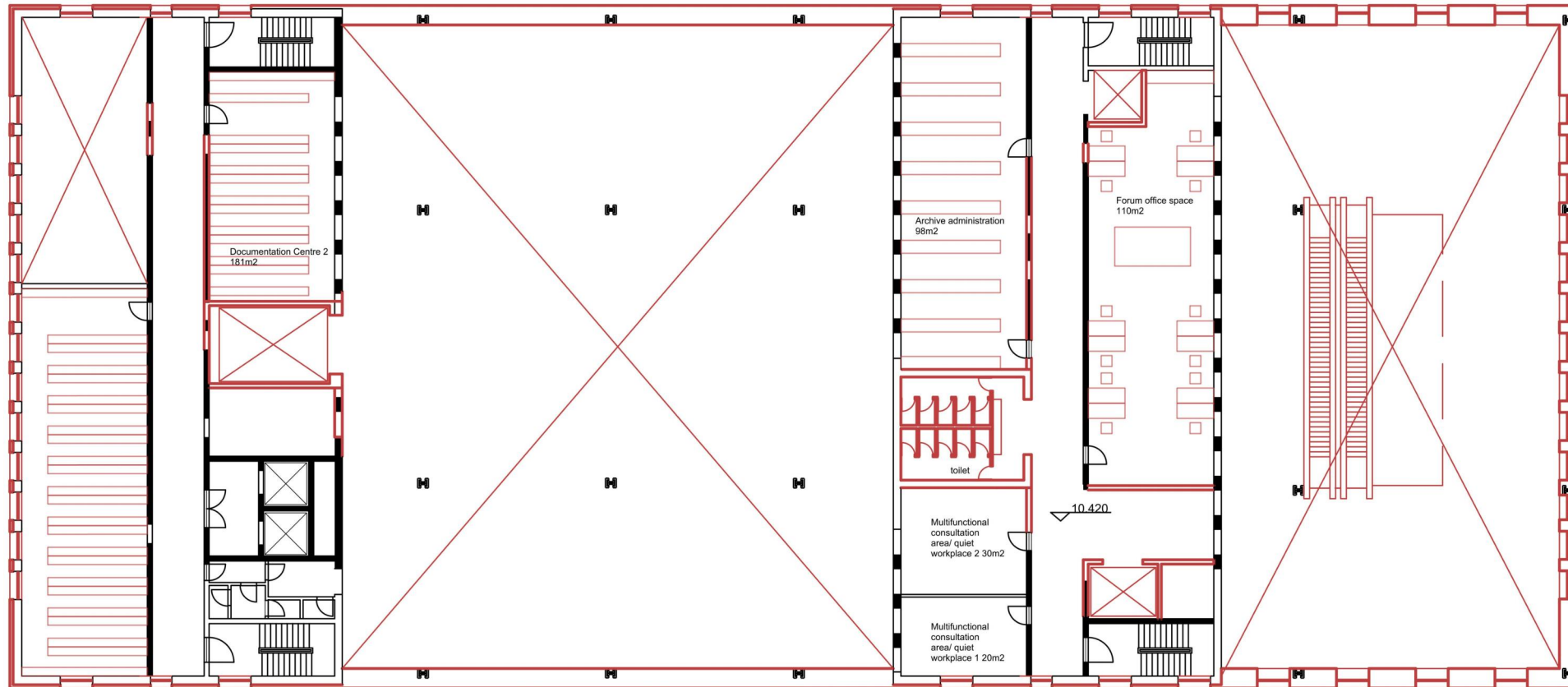
FLOOR 2 1:250

function & plan
inherit & demolish



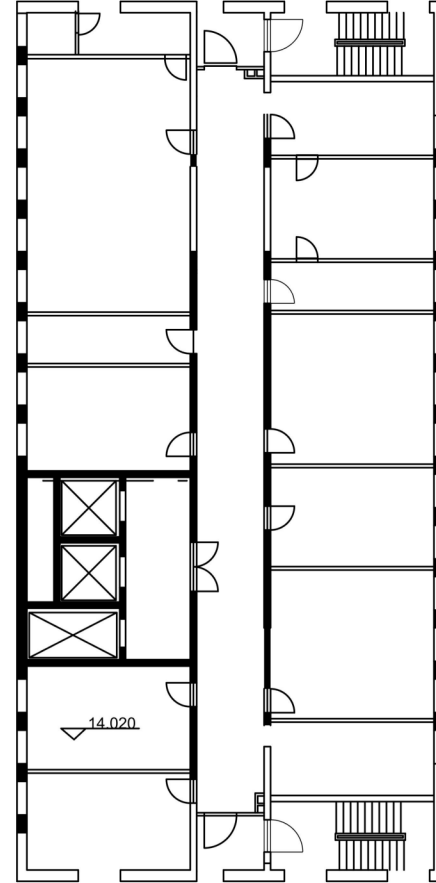
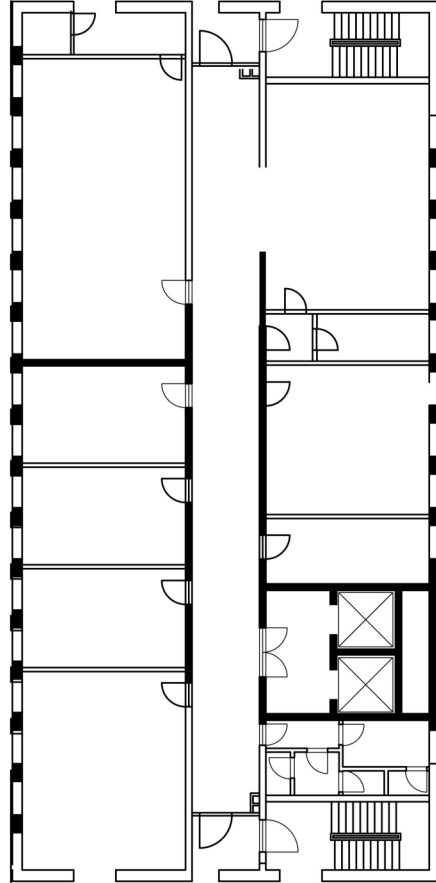
FLOOR 2 1:250

function & plan
inherit & demolish



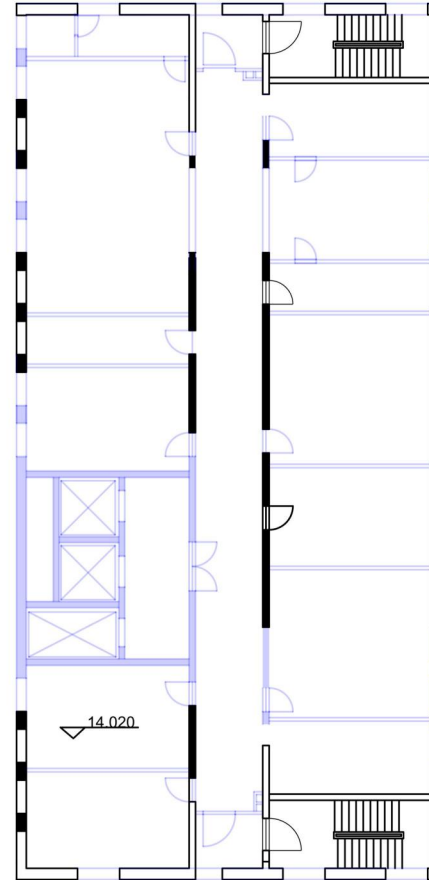
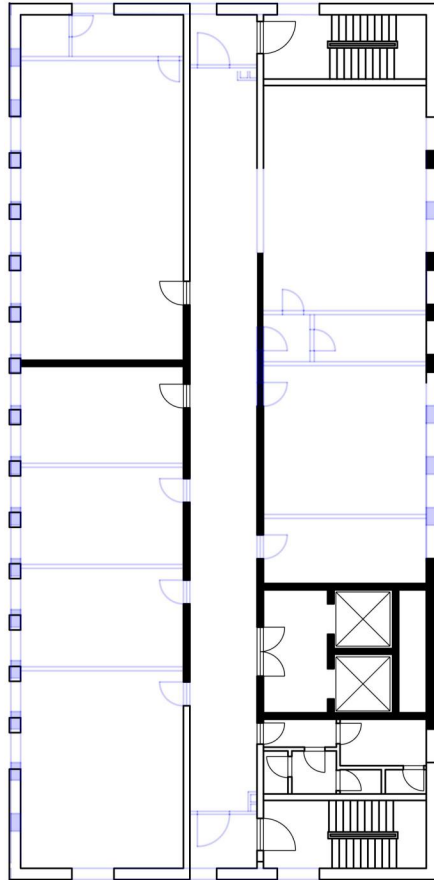
FLOOR 2 1:250

function & plan
inherit & demolish



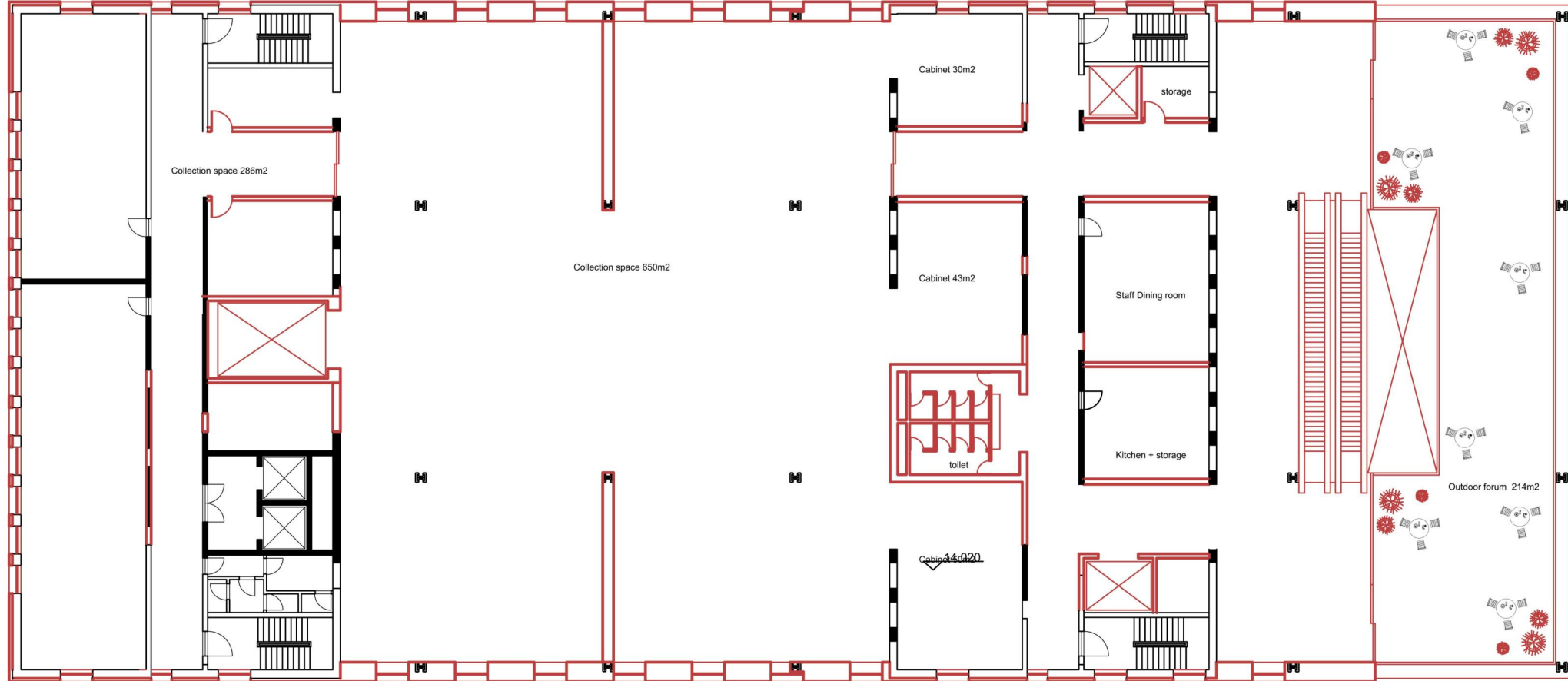
FLOOR 3 1:250

function & plan
inherit & demolish



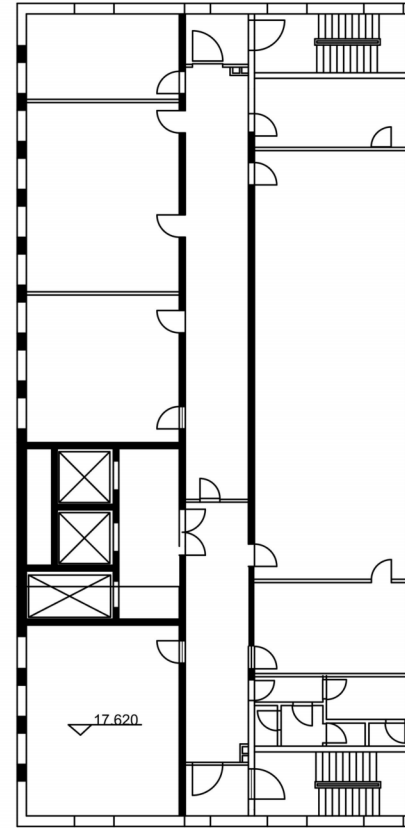
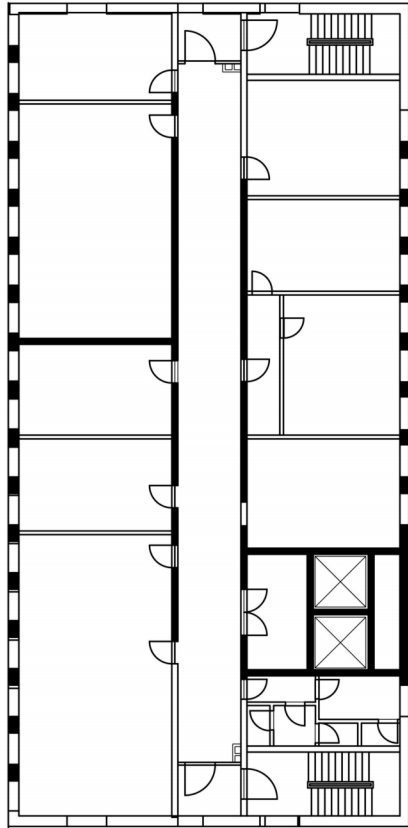
FLOOR 3 1:250

function & plan
inherit & demolish



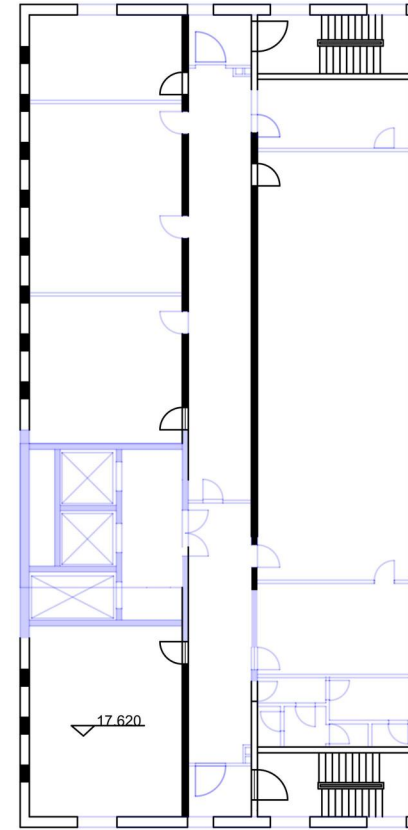
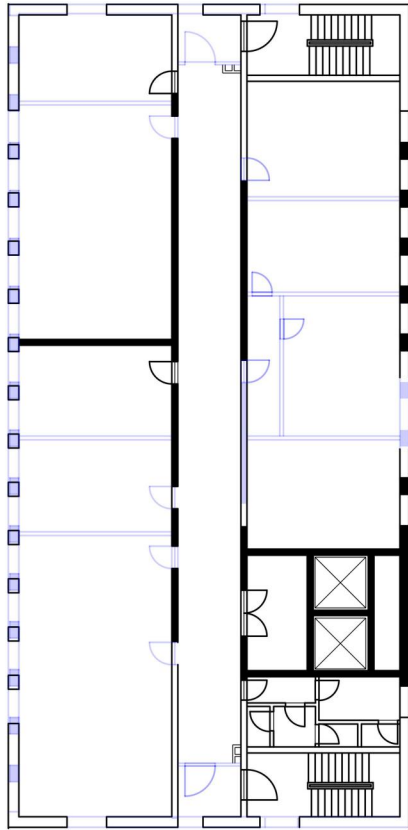
FLOOR 3 1:250

function & plan
inherit & demolish



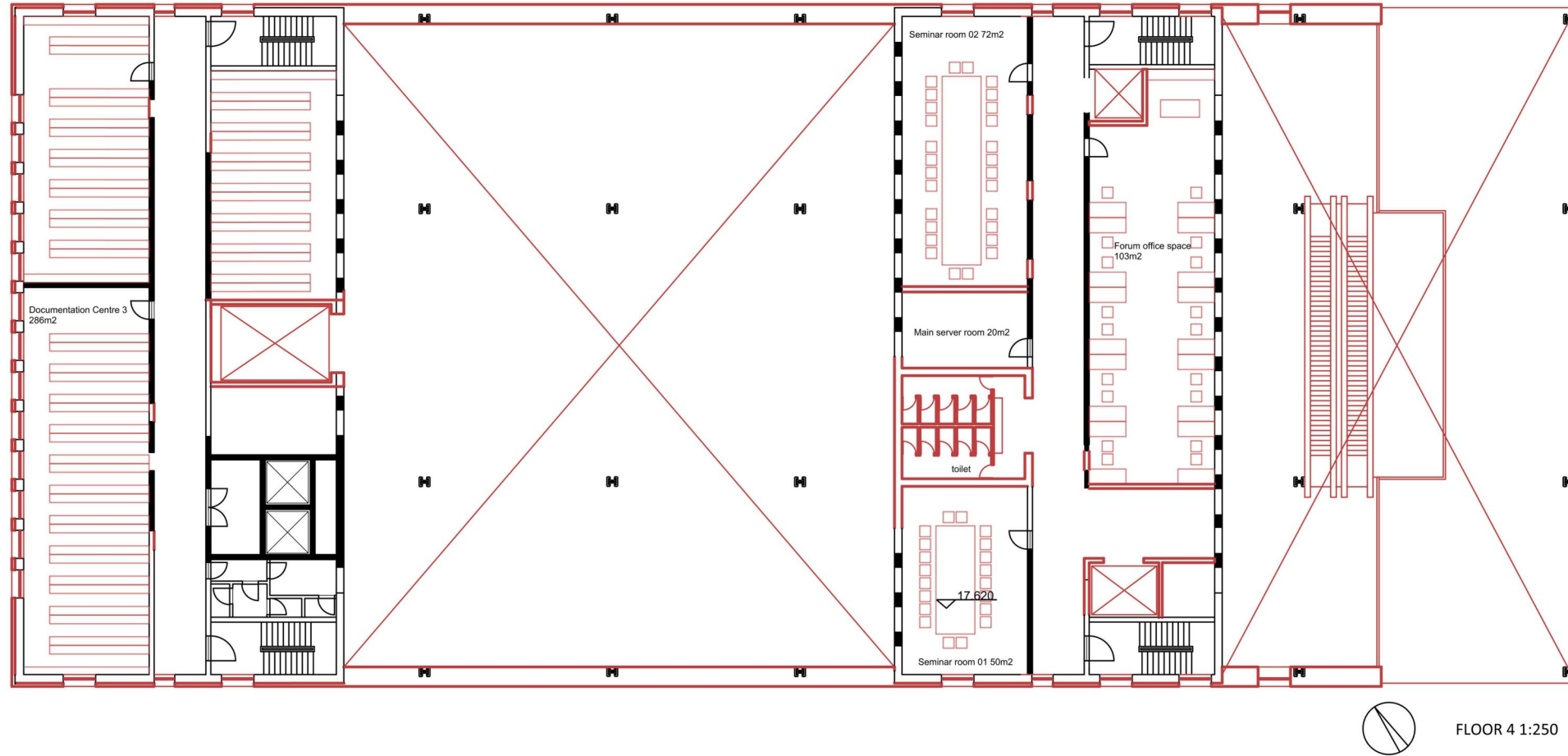
FLOOR 4 1:250

function & plan
inherit & demolish

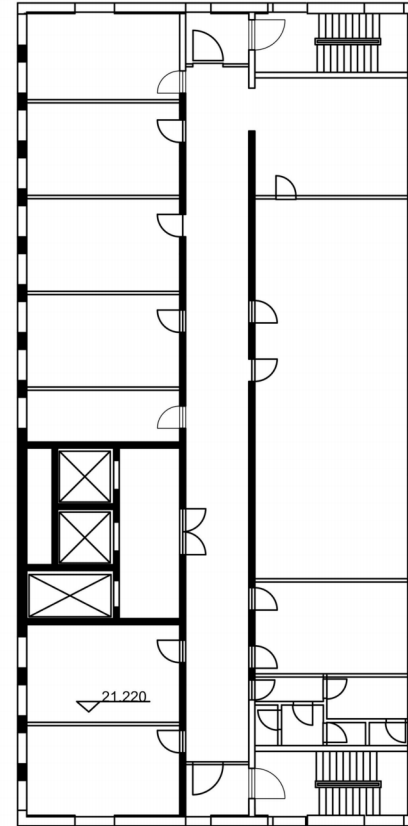
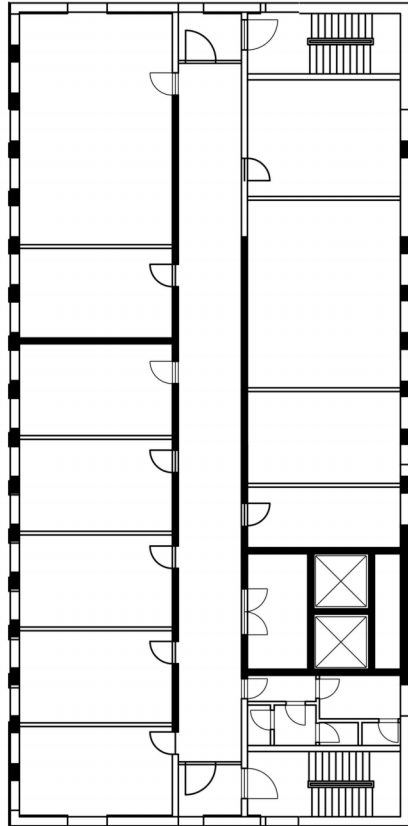


FLOOR 4 1:250

function & plan
inherit & demolish

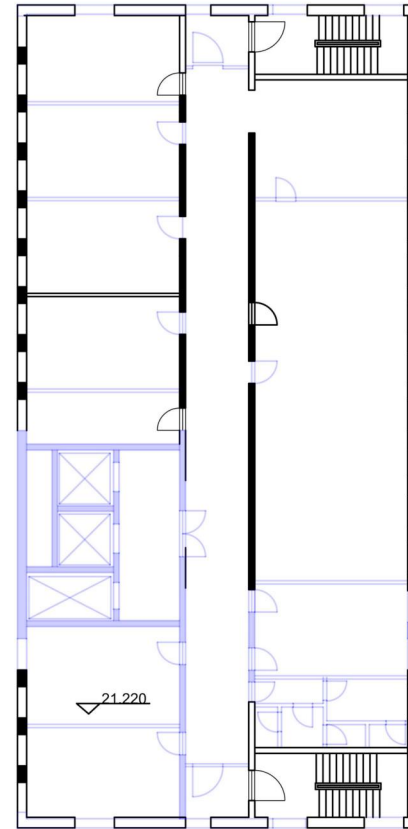
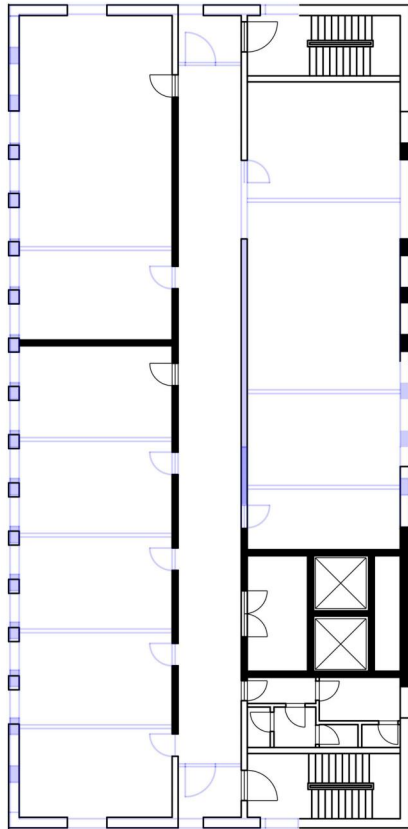


function & plan
inherit & demolish



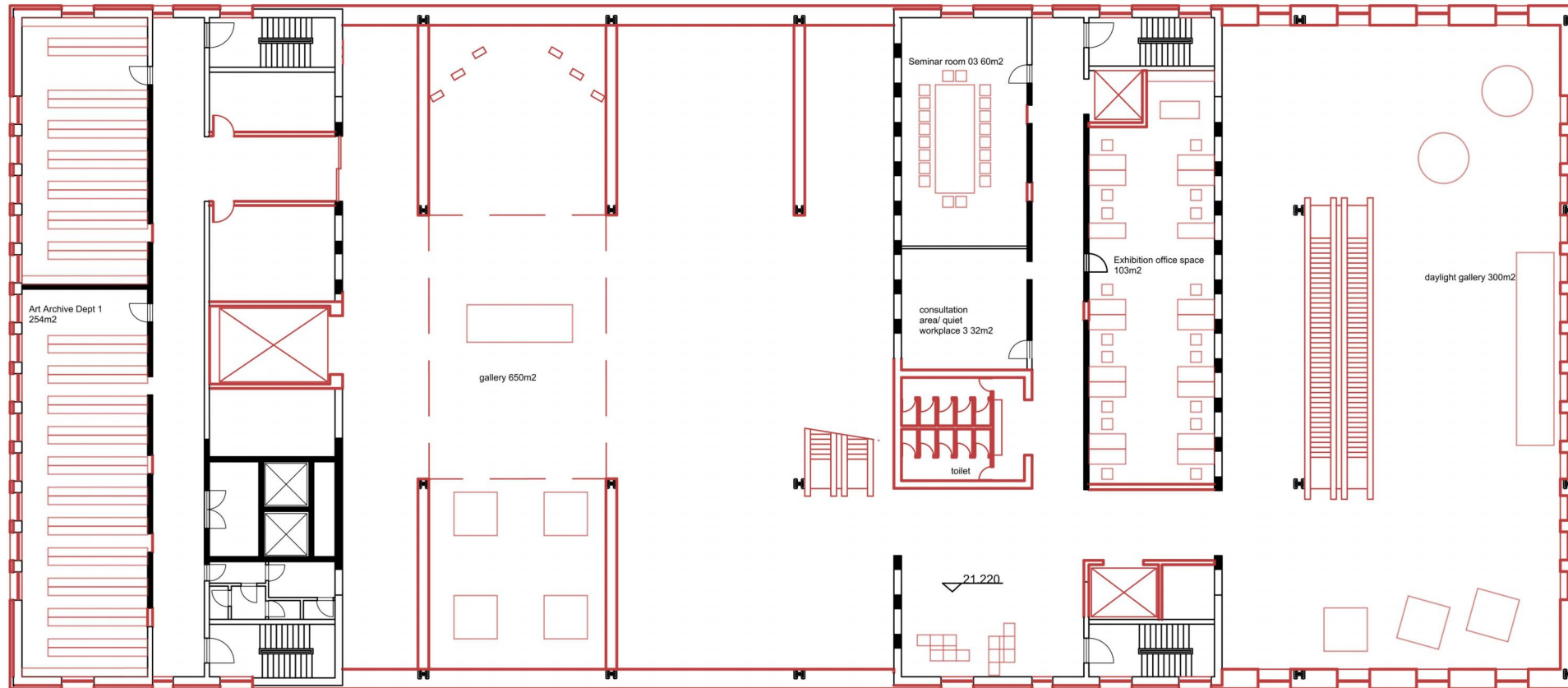
FLOOR 5 1:250

function & plan
inherit & demolish



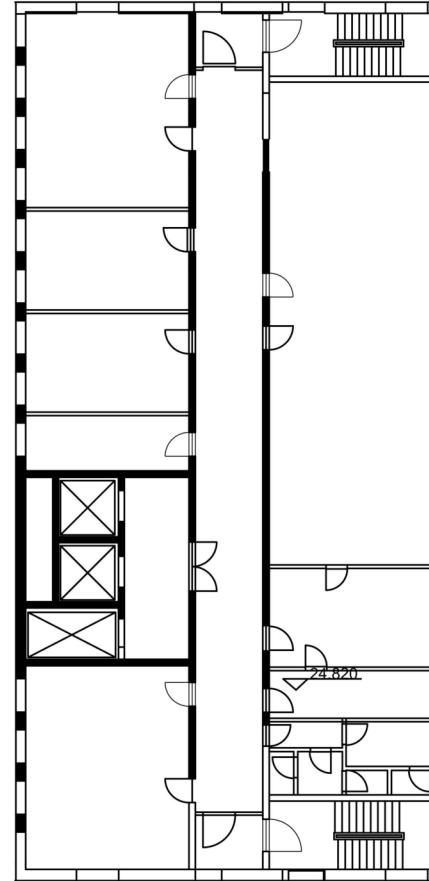
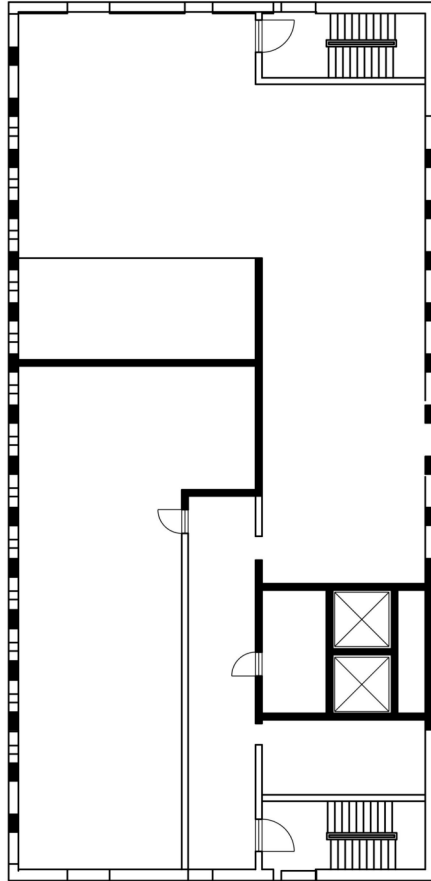
FLOOR 5 1:250

function & plan
inherit & demolish



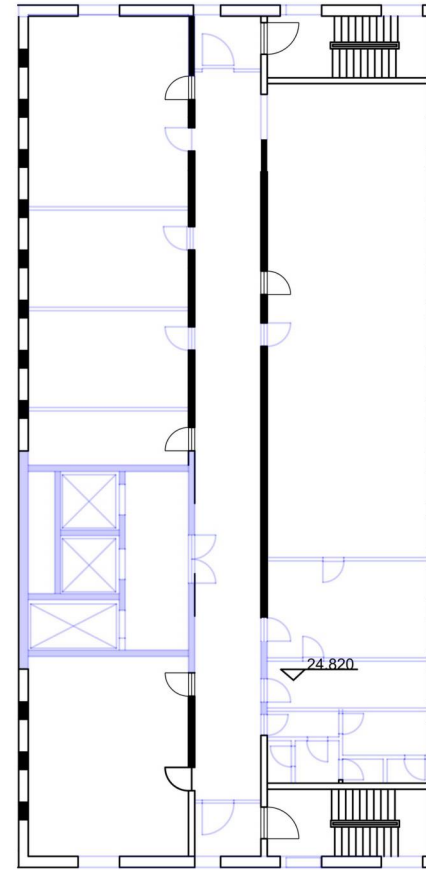
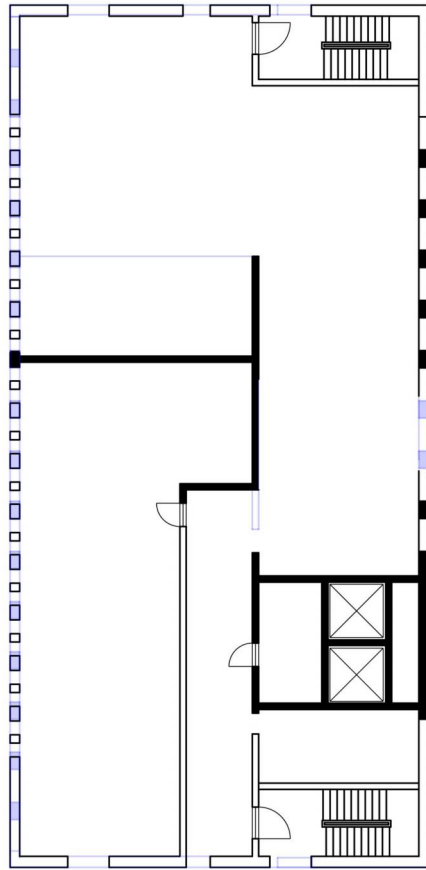
FLOOR 5 1:250

function & plan
inherit & demolish



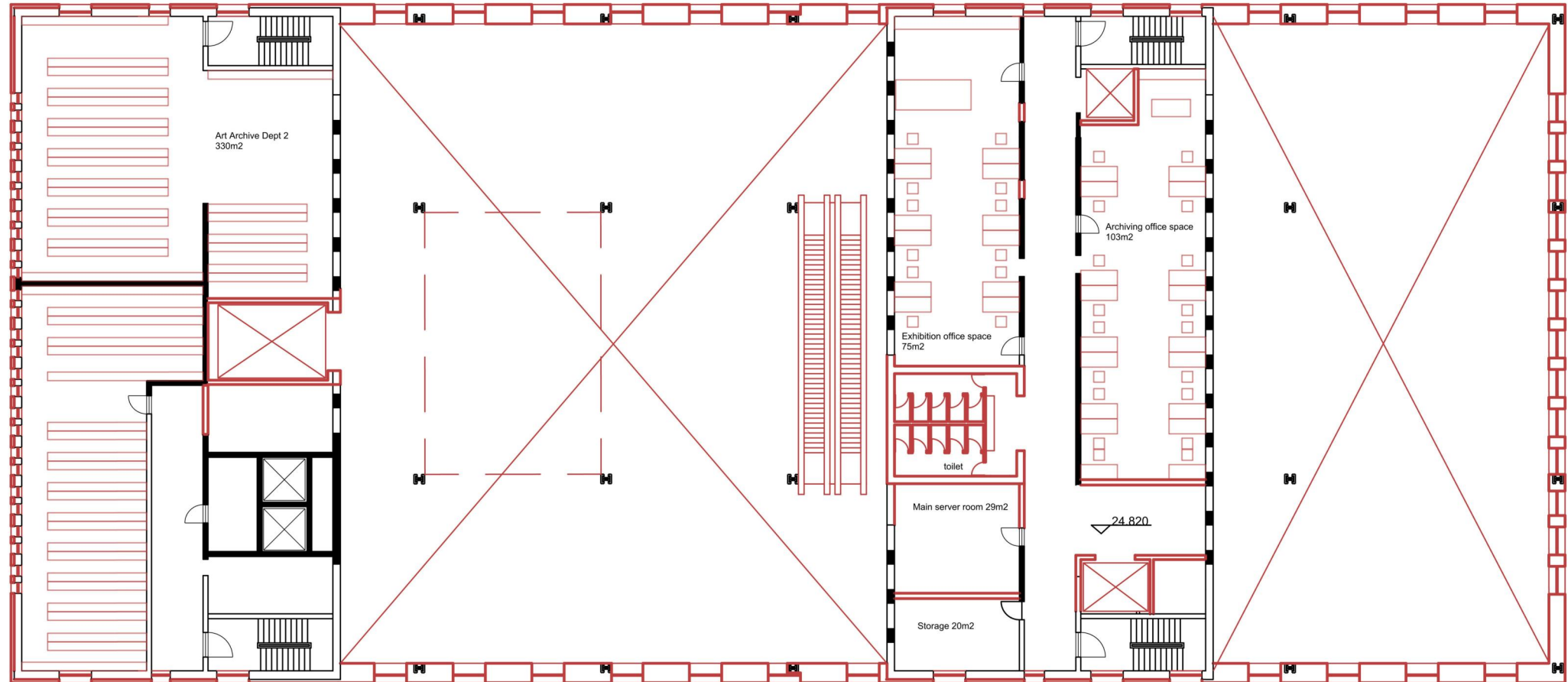
FLOOR 6 1:250

function & plan
inherit & demolish



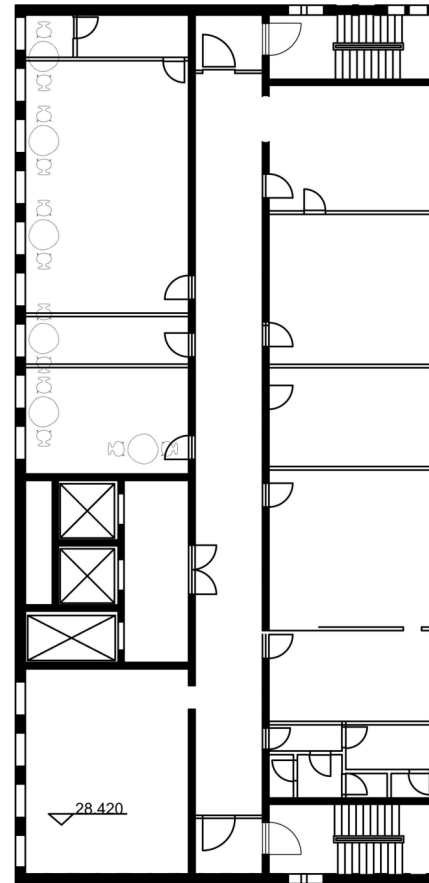
FLOOR 6 1:250

function & plan
inherit & demolish



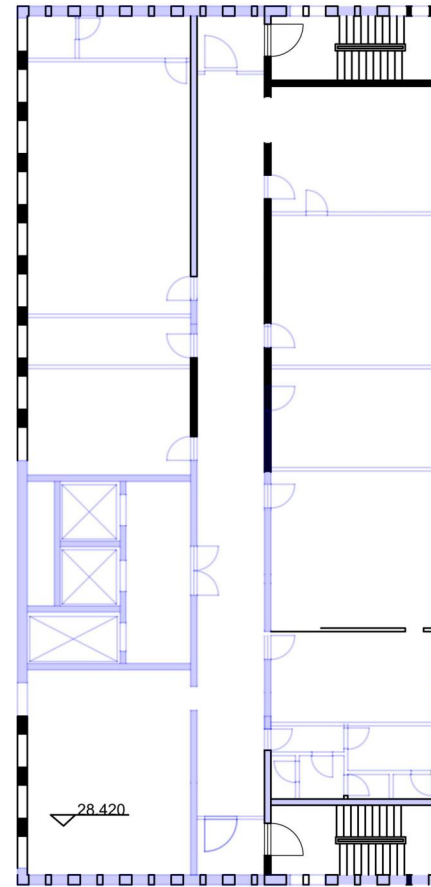
FLOOR 6 1:250

function & plan
inherit & demolish



FLOOR 7 1:250

function & plan
inherit & demolish

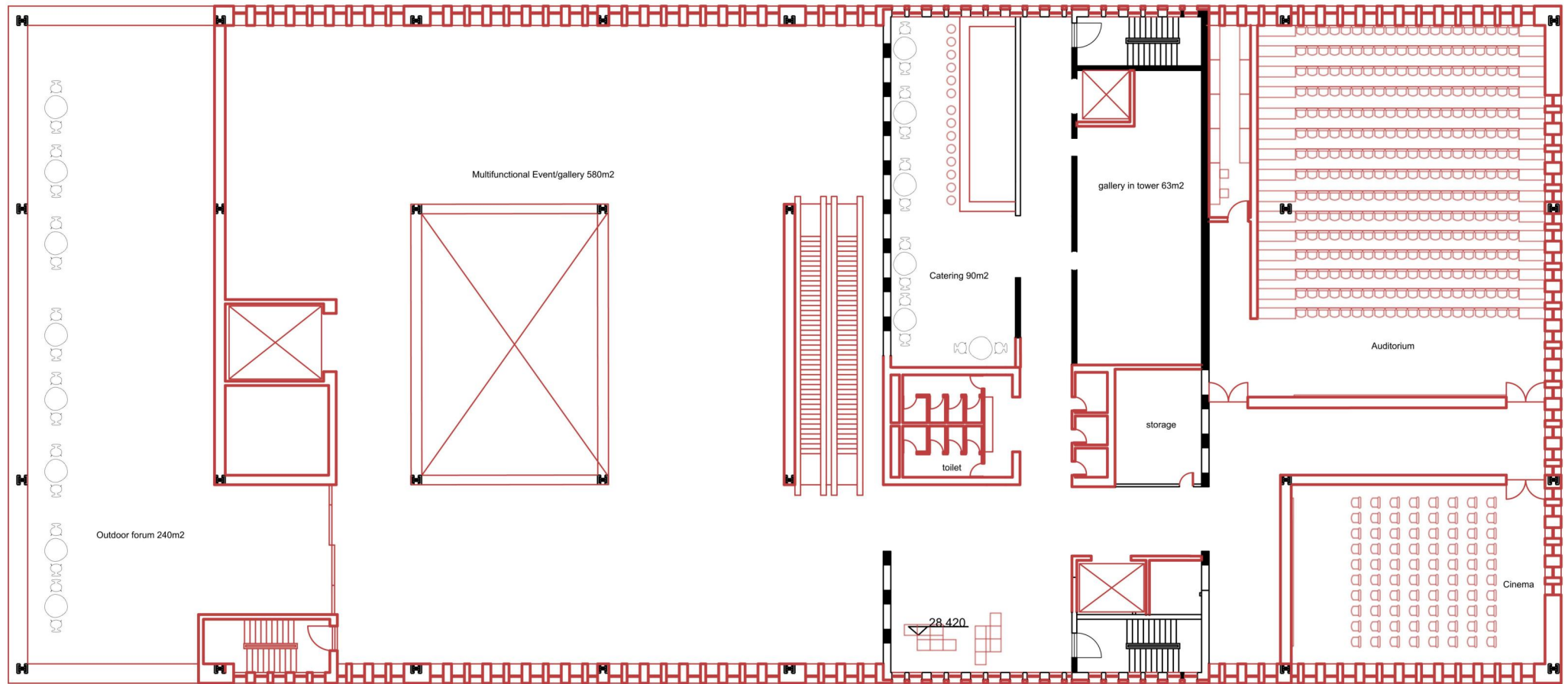


28.420



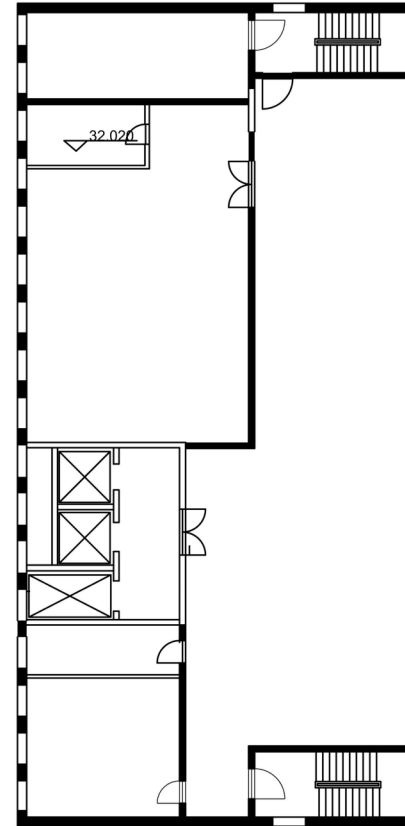
FLOOR 7 1:250

function & plan
inherit & demolish



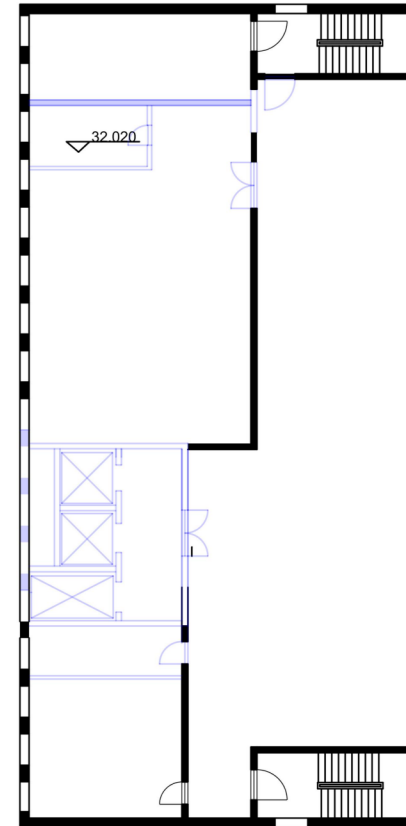
FLOOR 7 1:250

function & plan
inherit & demolish



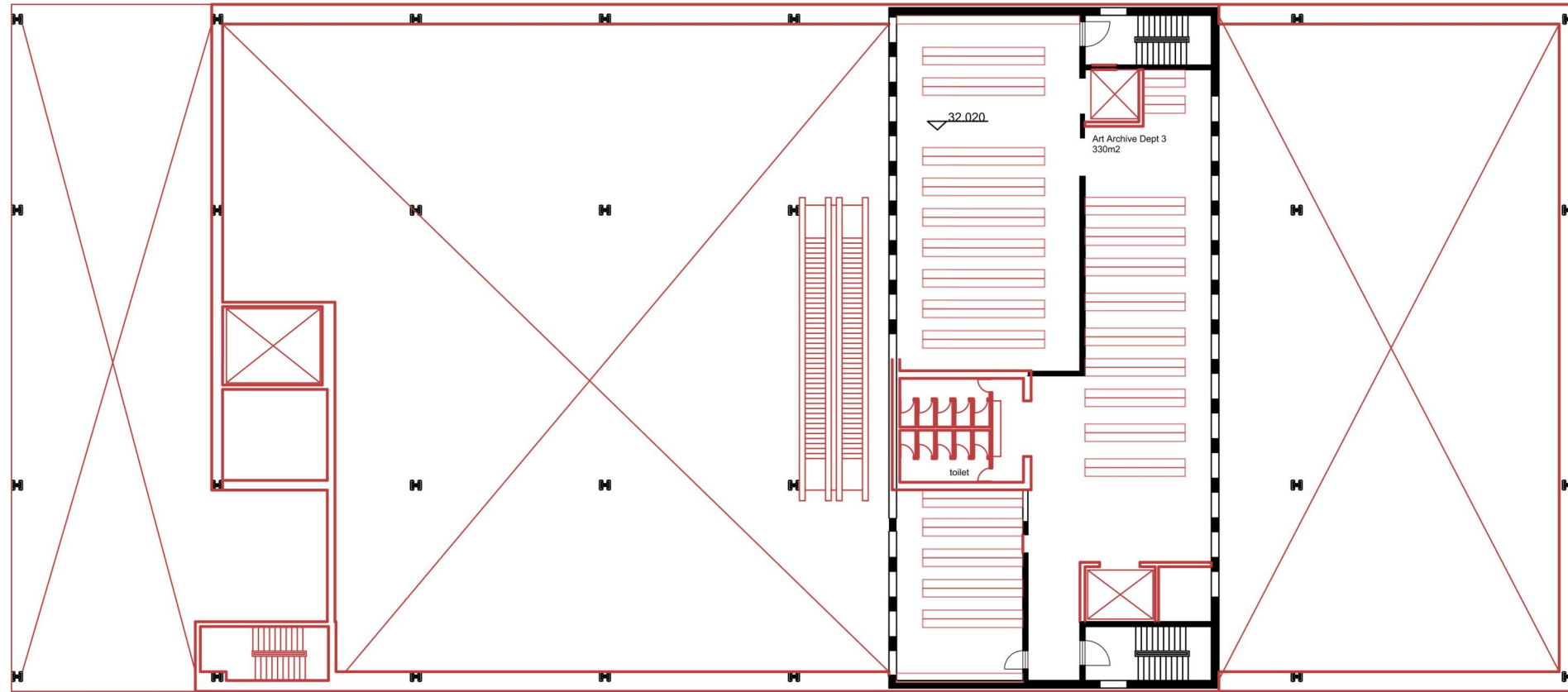
FLOOR 8 1:250

function & plan
inherit & demolish



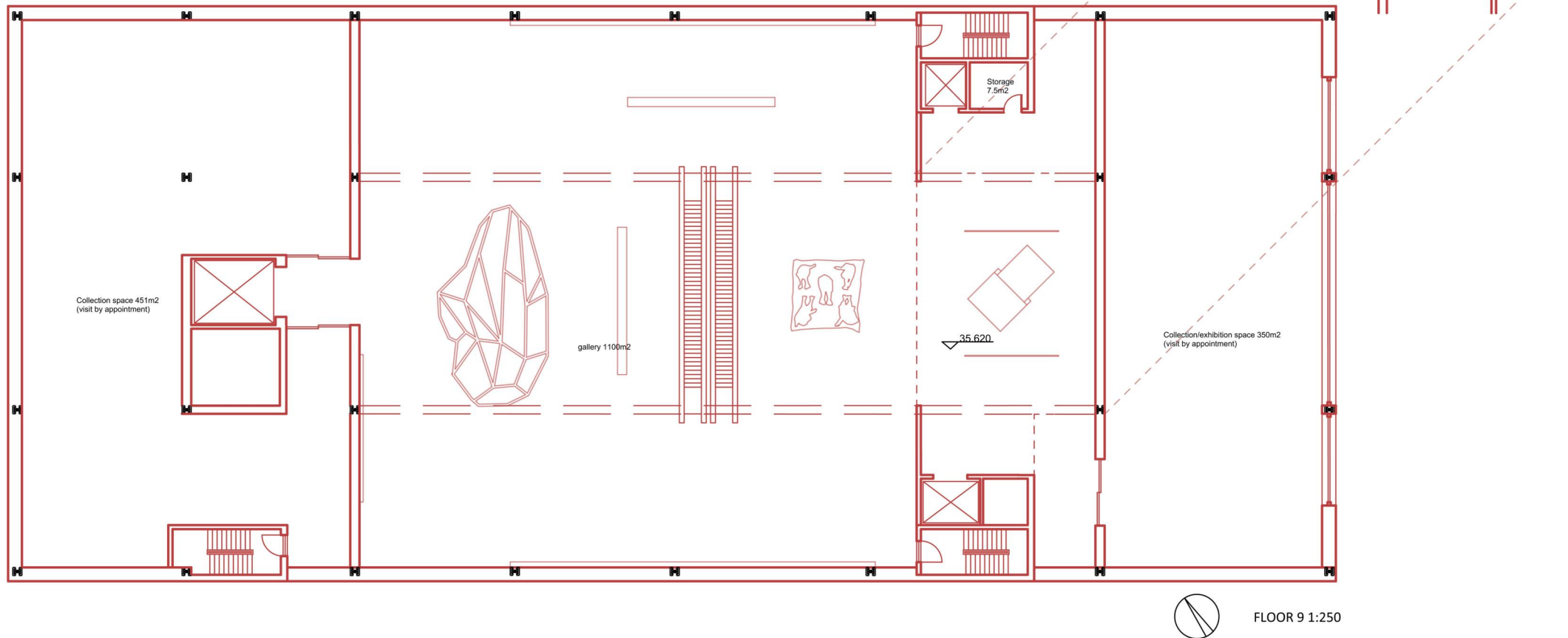
FLOOR 8 1:250

function & plan
inherit & demolish

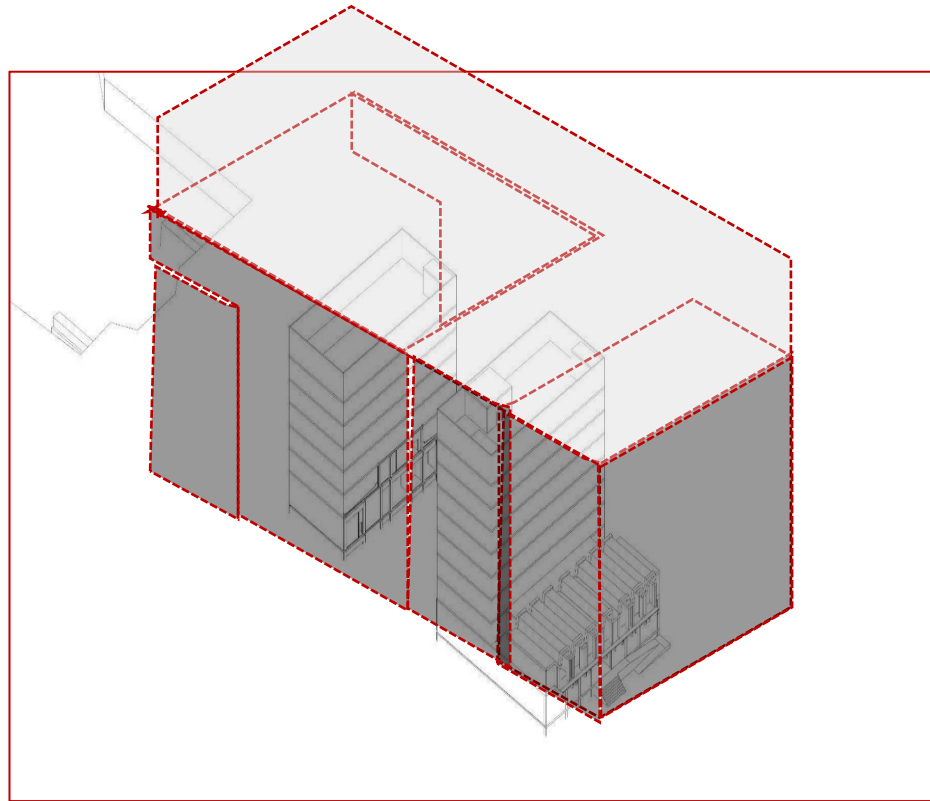


FLOOR 8 1:250

function & plan
inherit & demolish



07 materials & facade & form



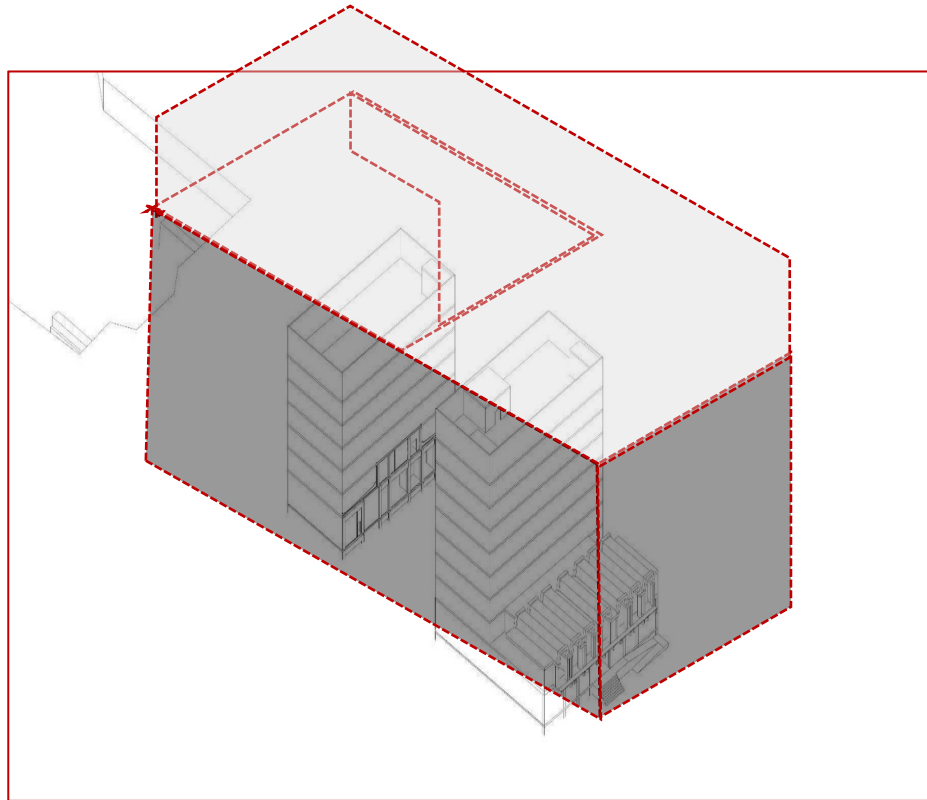
materials & facade & form



Het Steen Antwerp



materials & facade & form



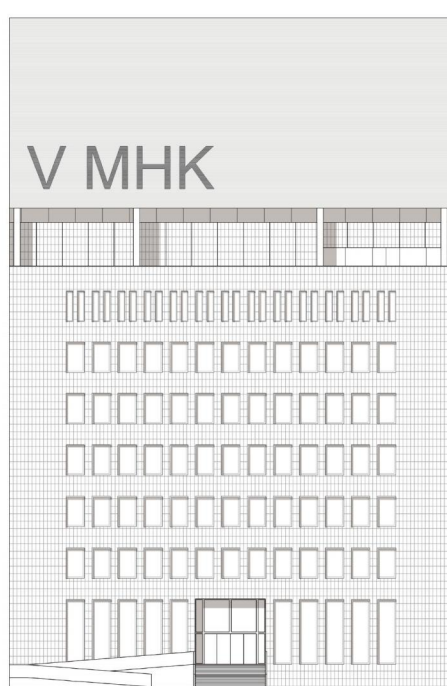
existing facade with street



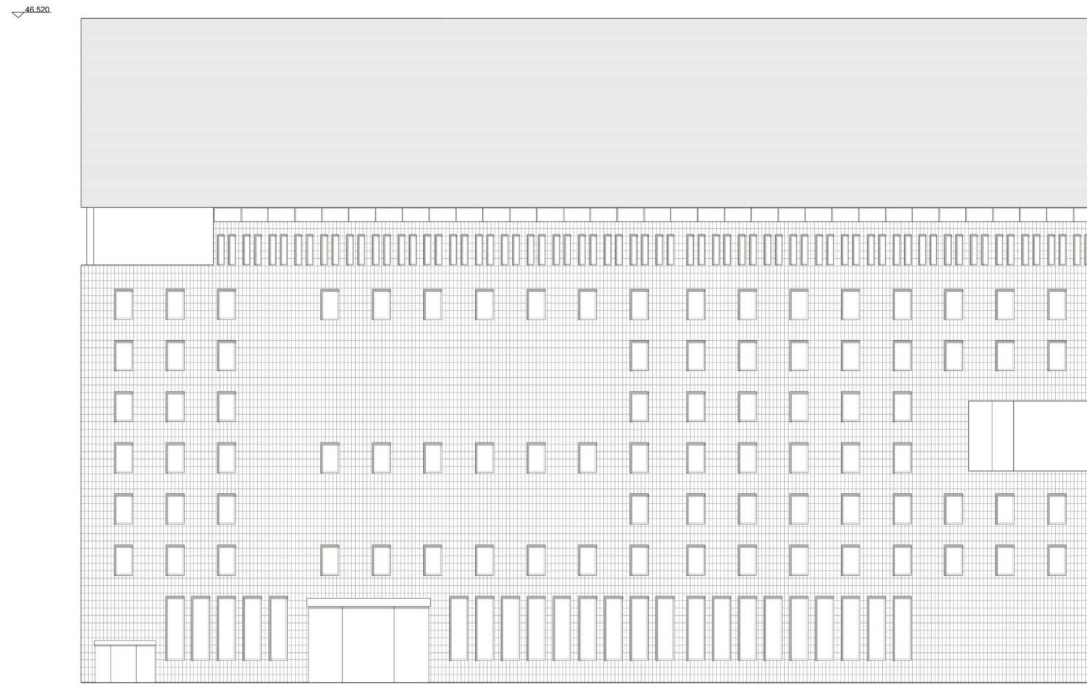
new facade with street



facade

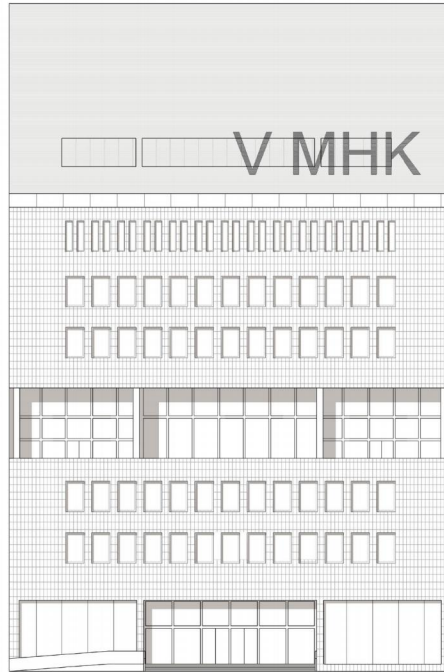


facade 1 1:250

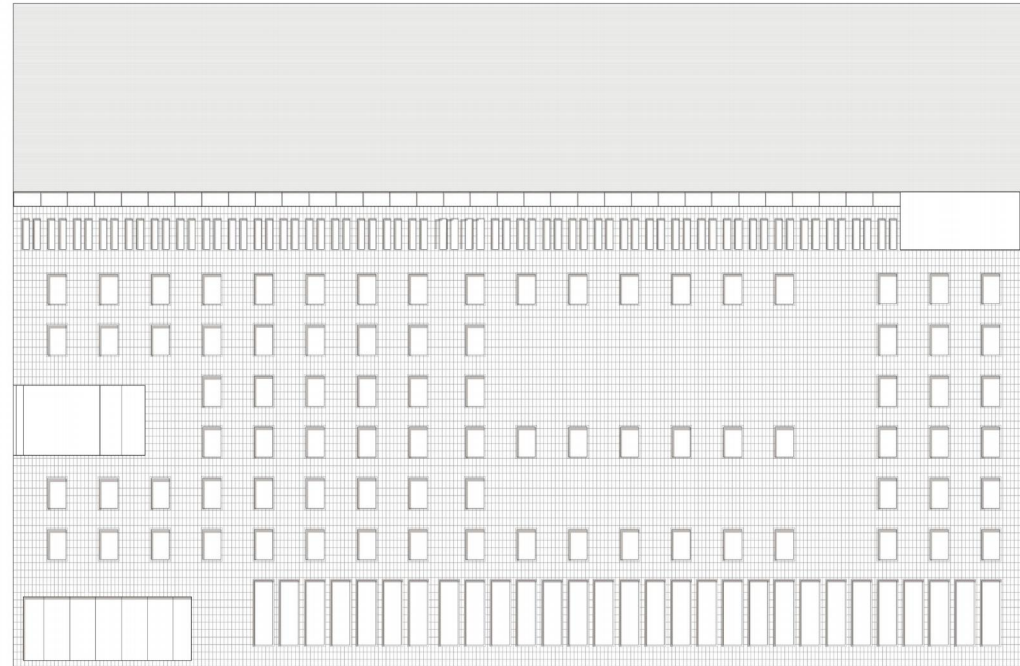


facade 2 1:250

facade

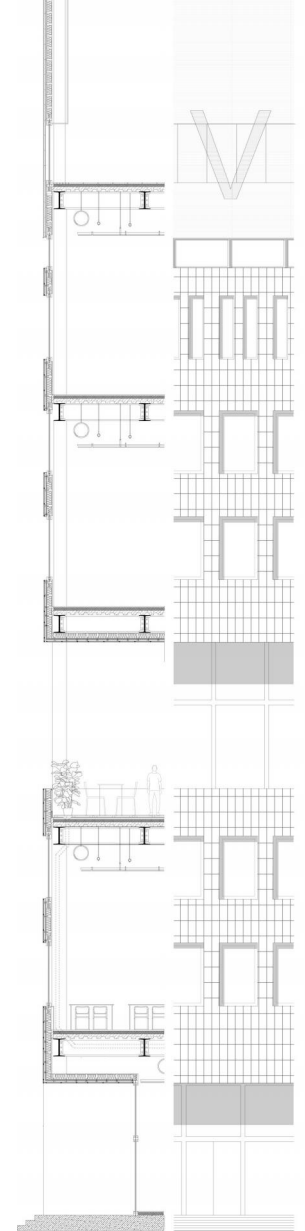
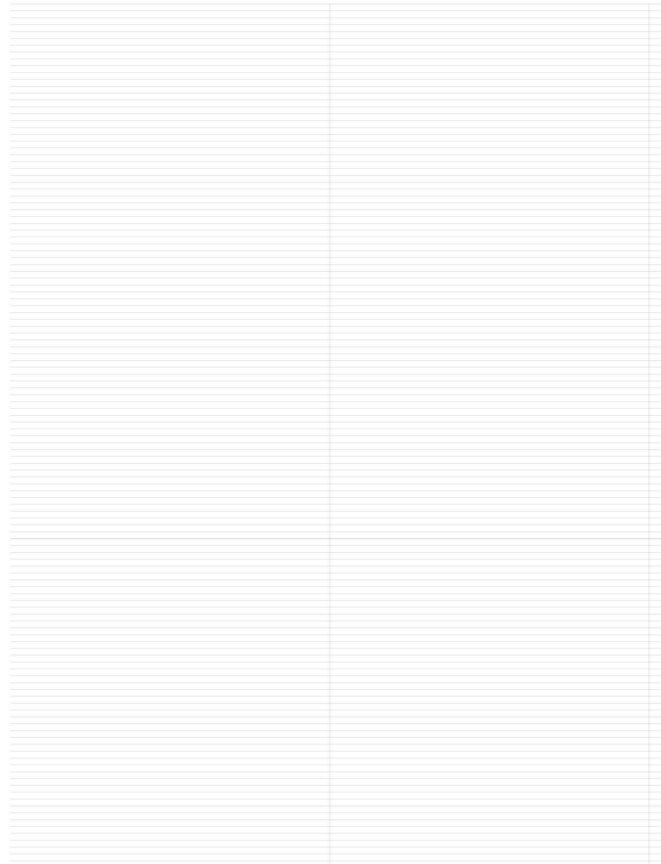
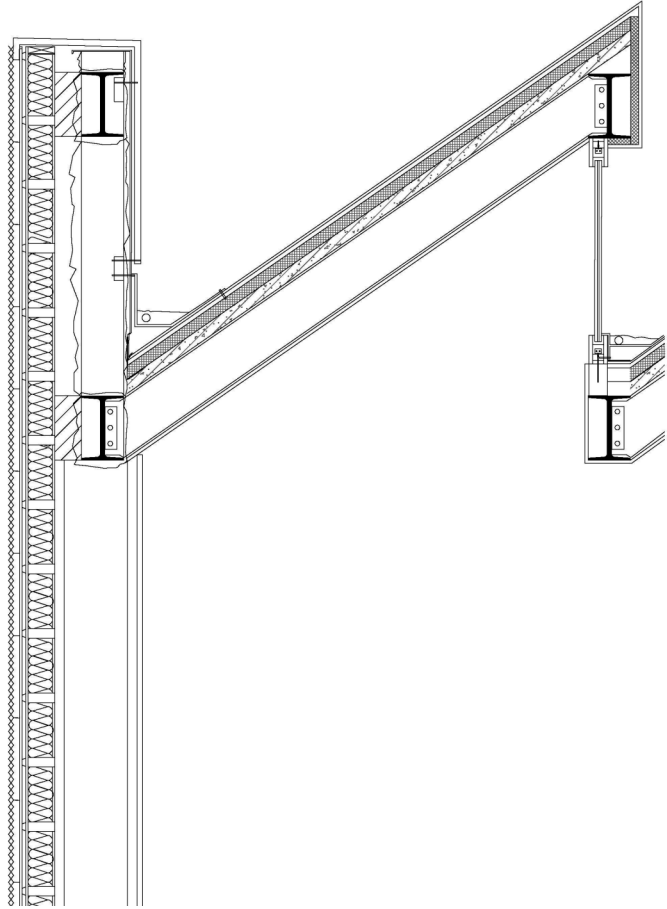


facade 3 1:250

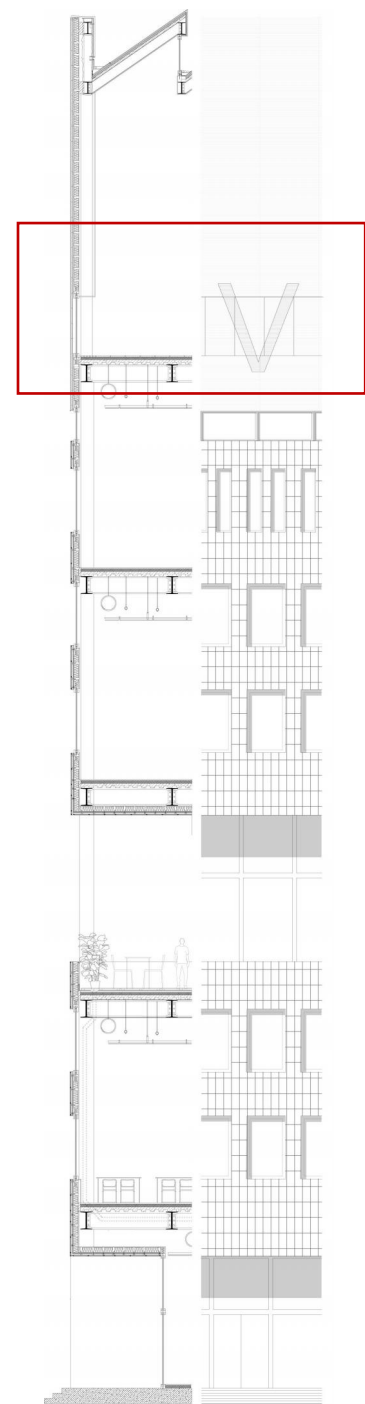
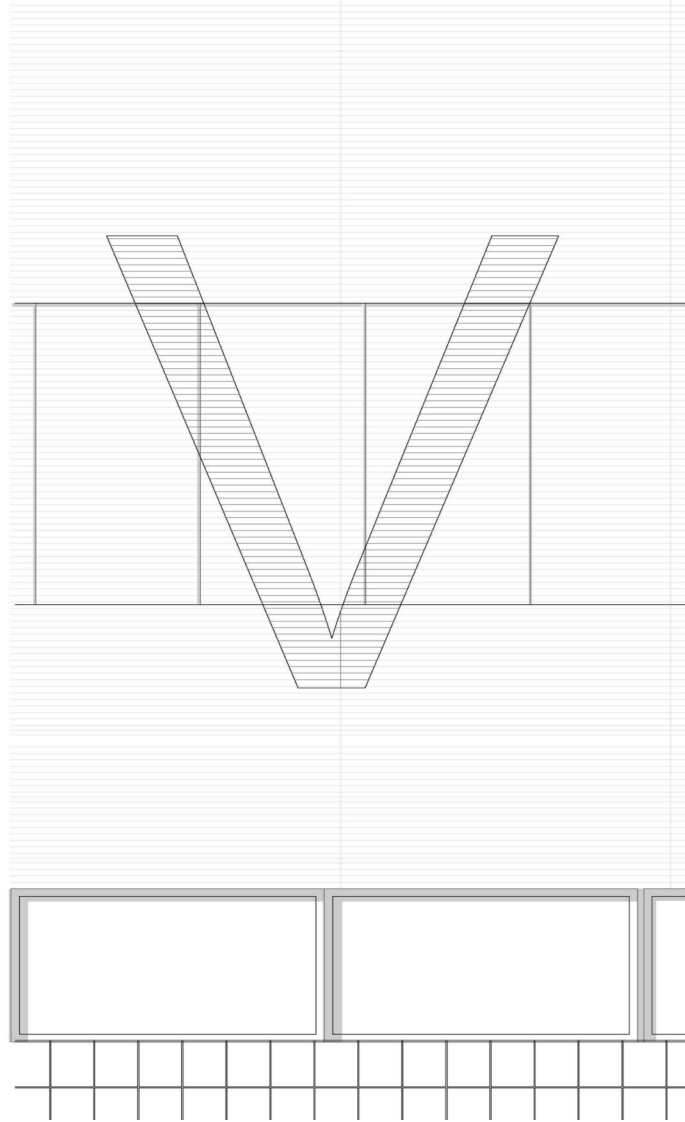
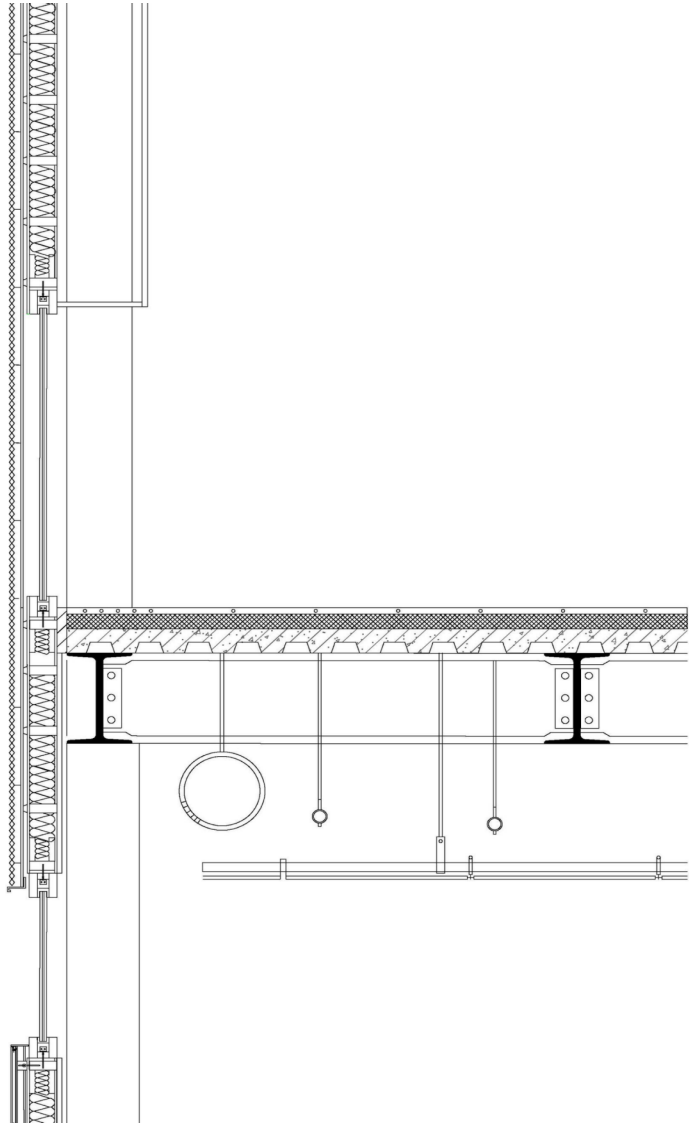


facade 4 1:250

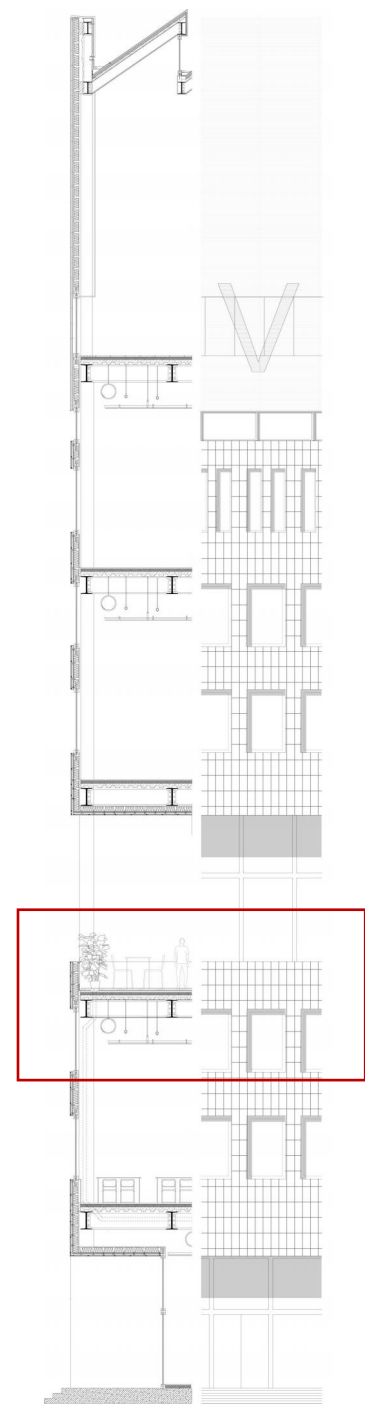
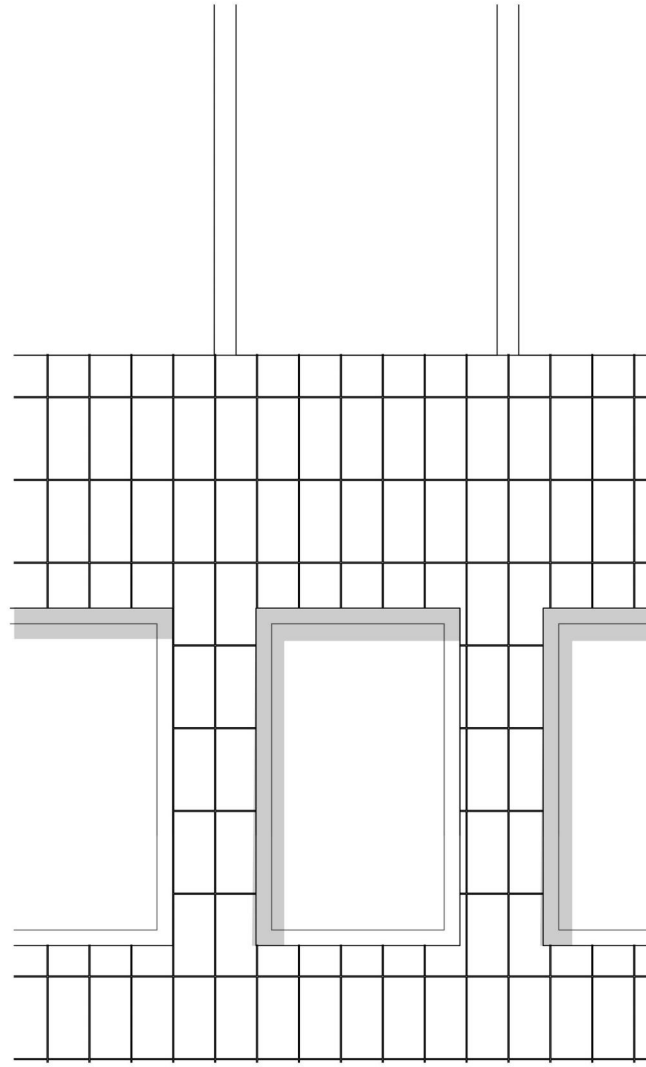
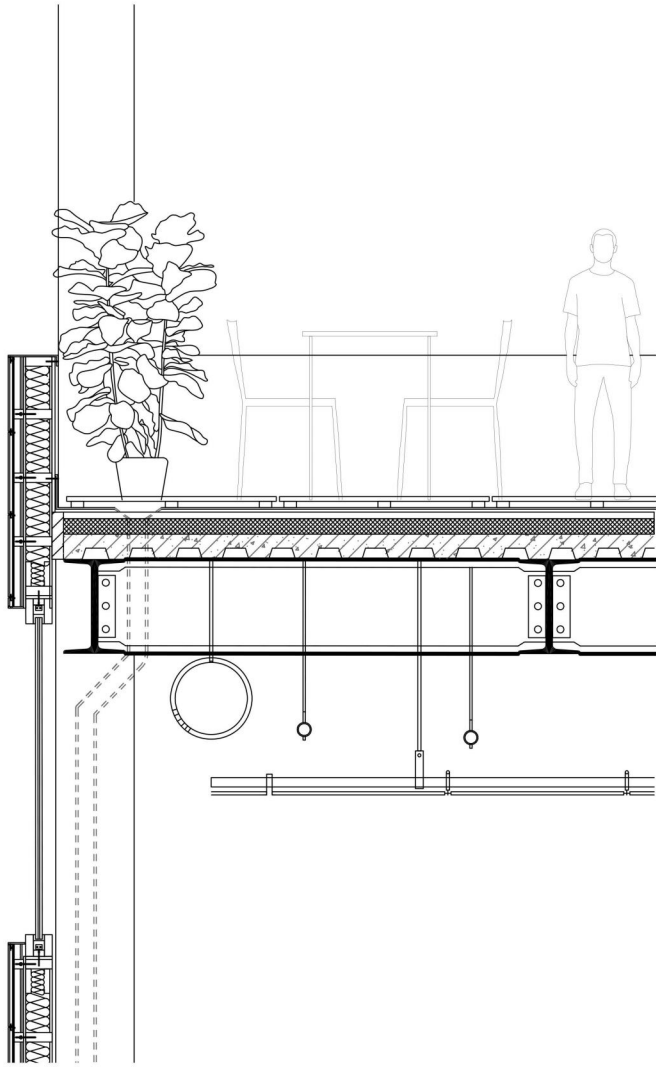
facade detail 1:20



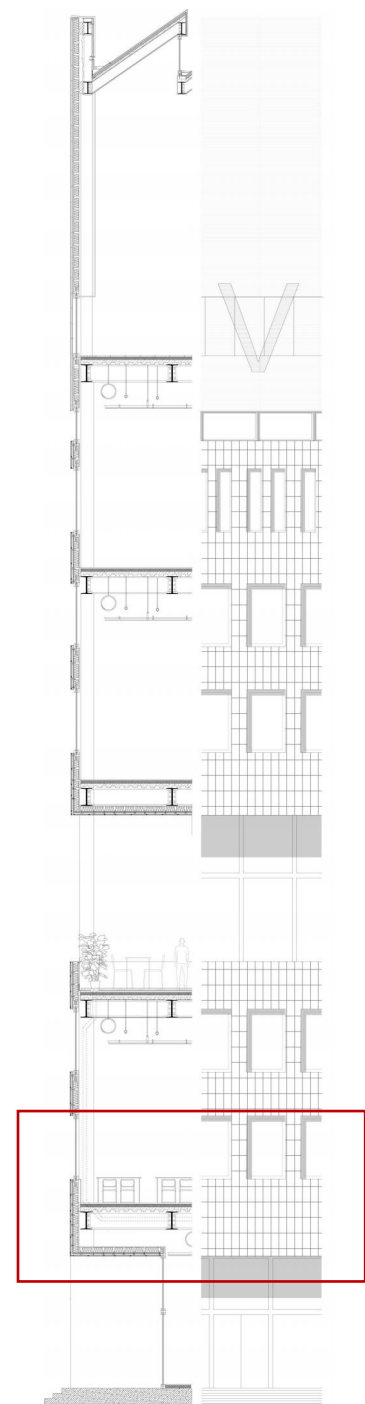
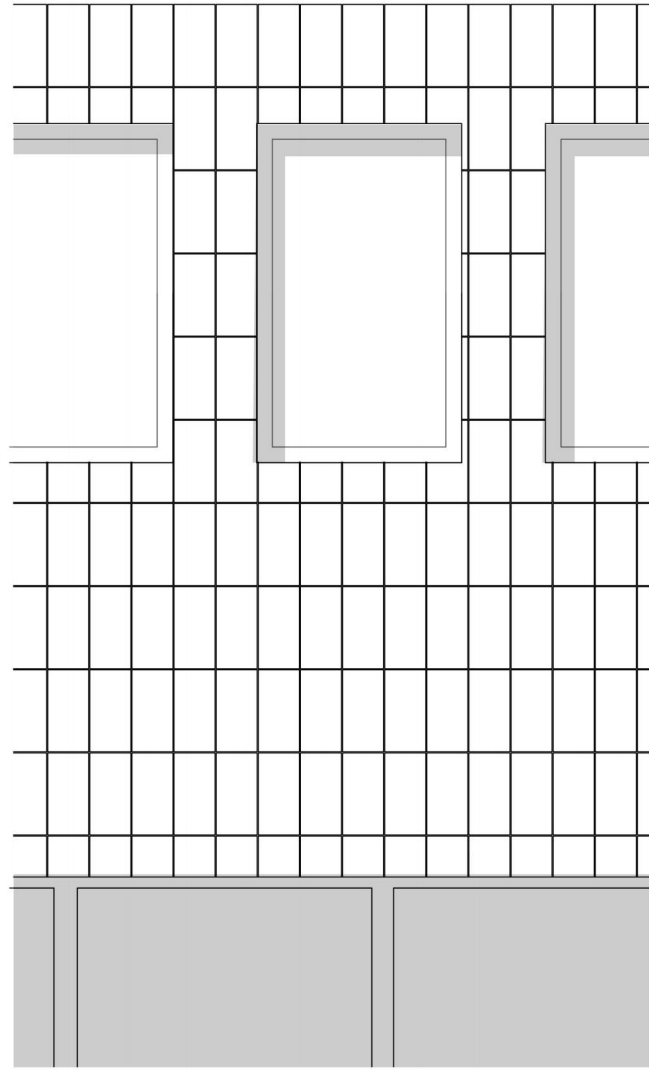
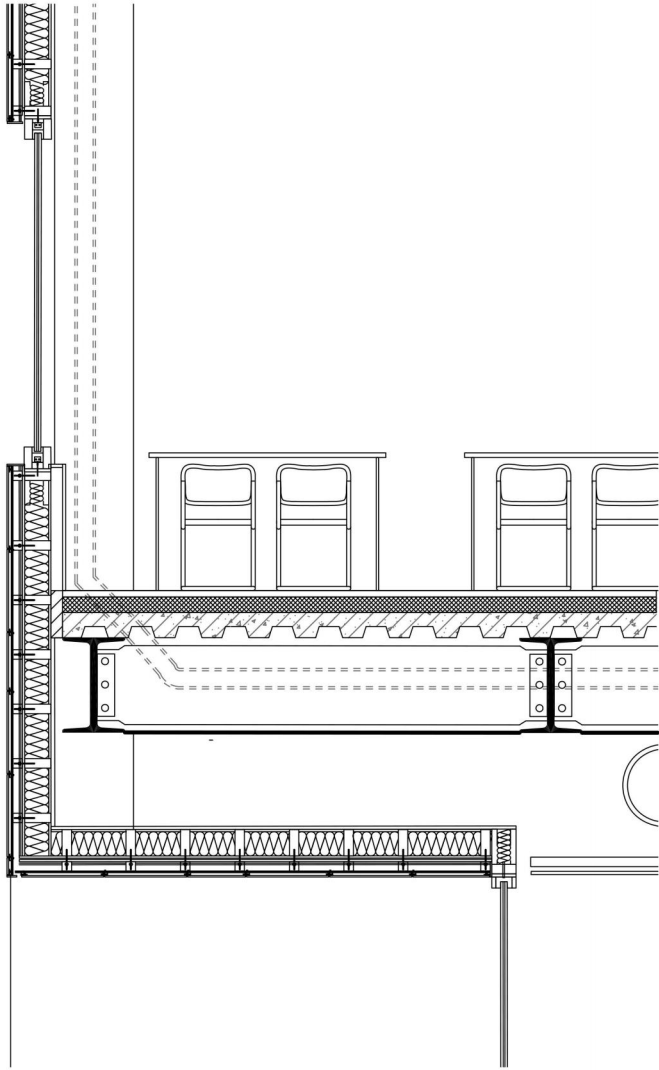
facade detail 1:20



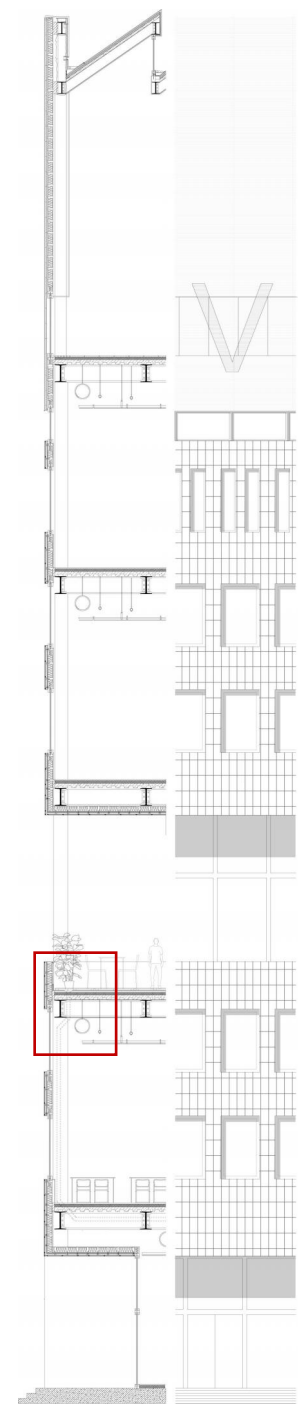
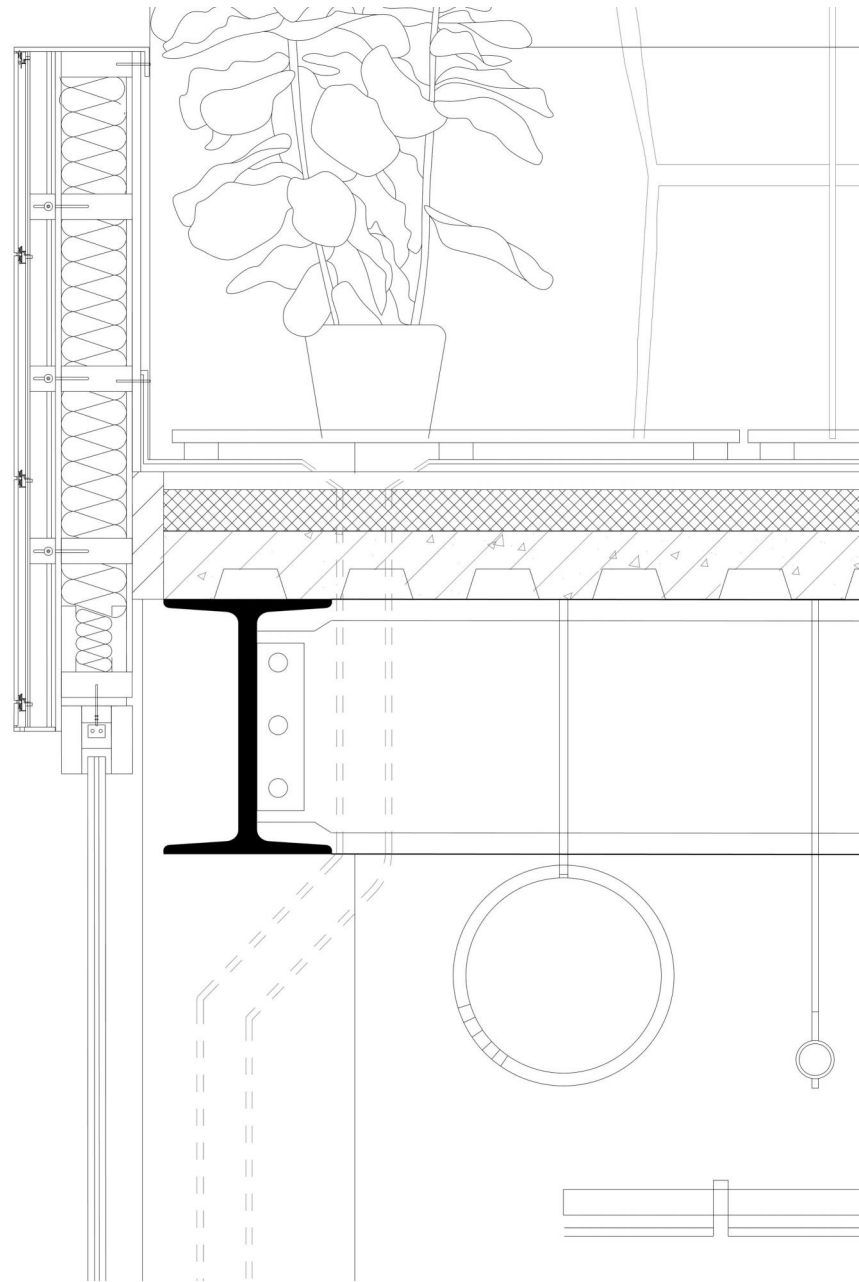
facade detail 1:20



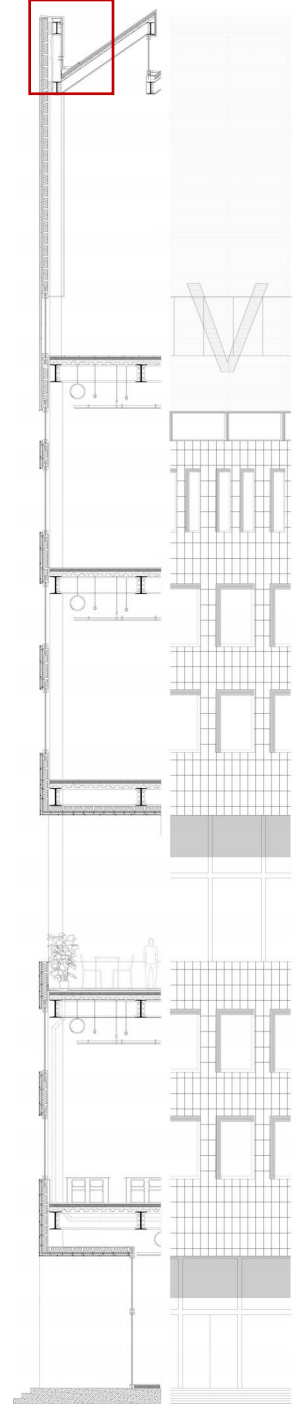
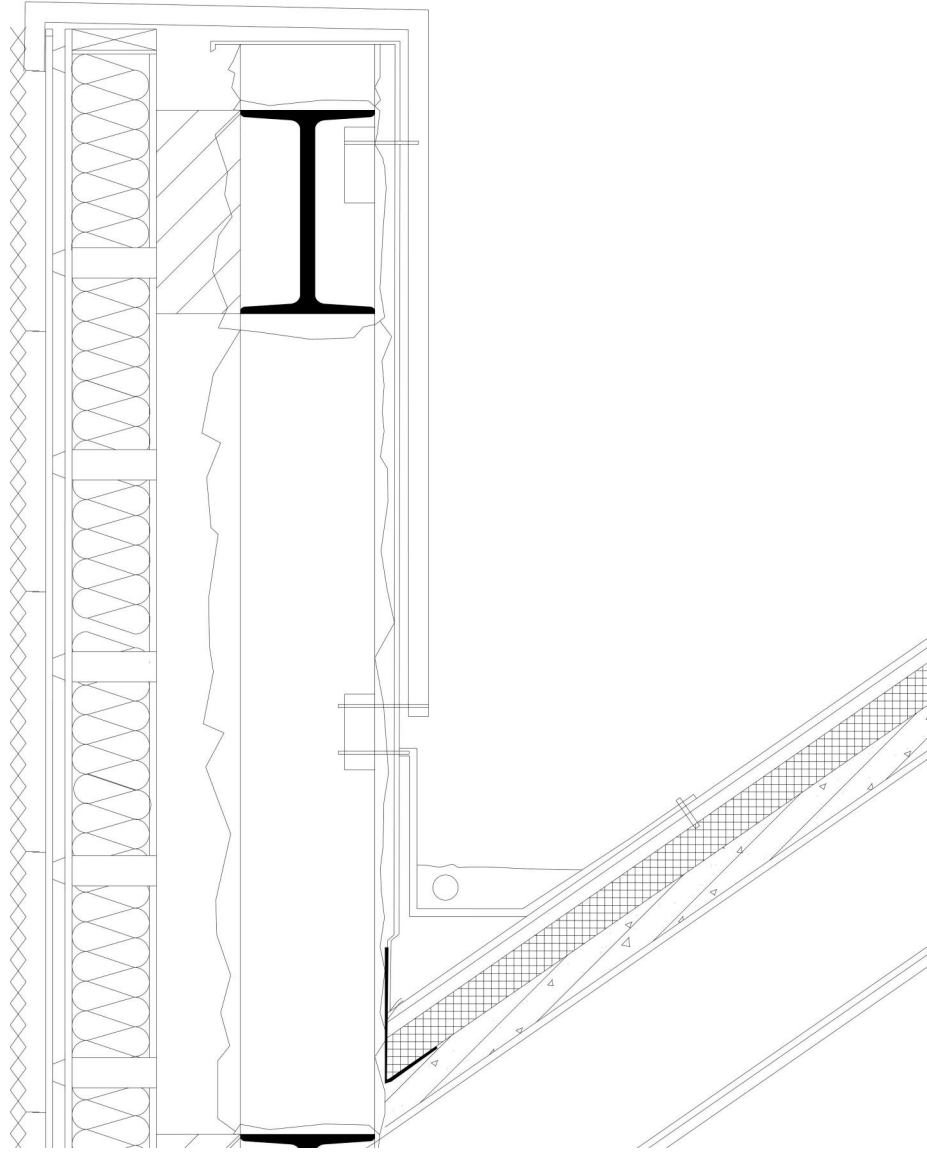
facade detail 1:20



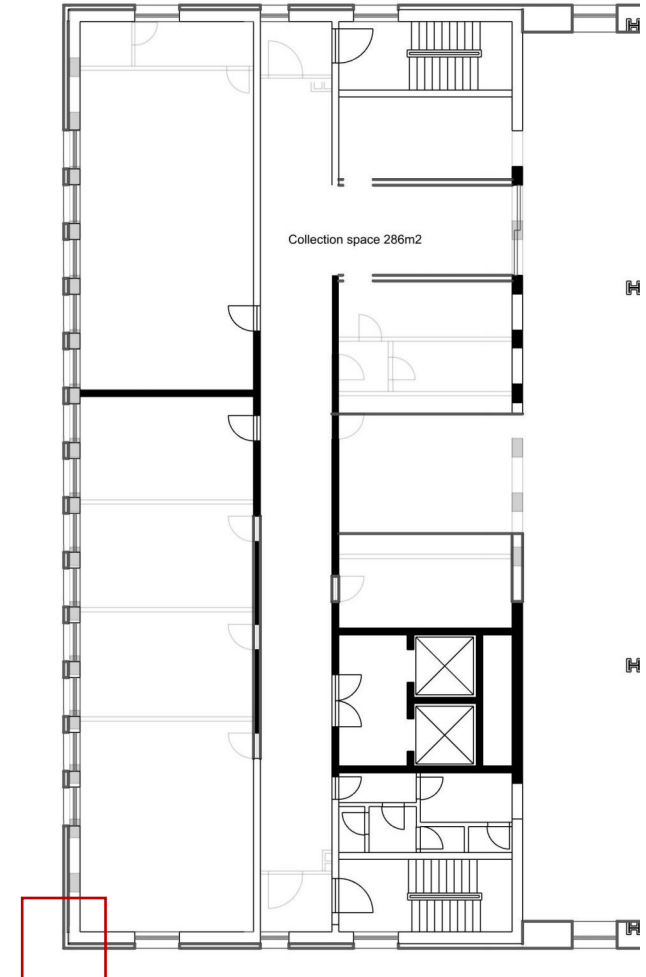
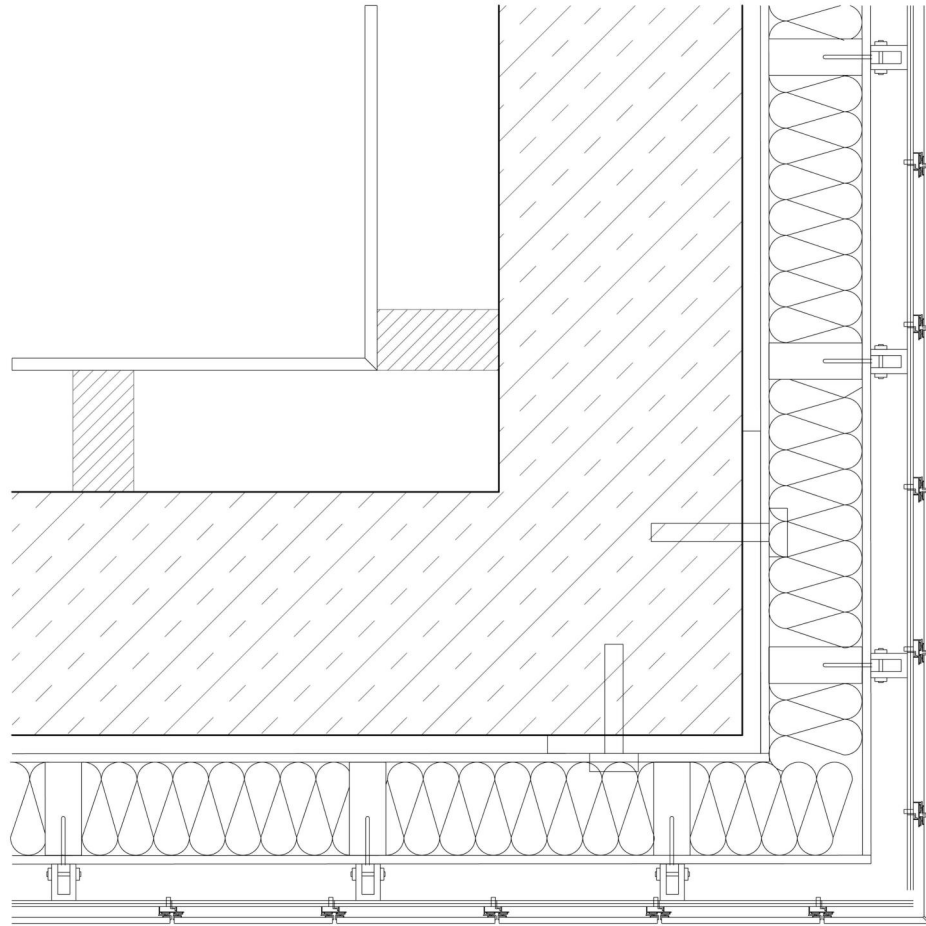
detail 1:5



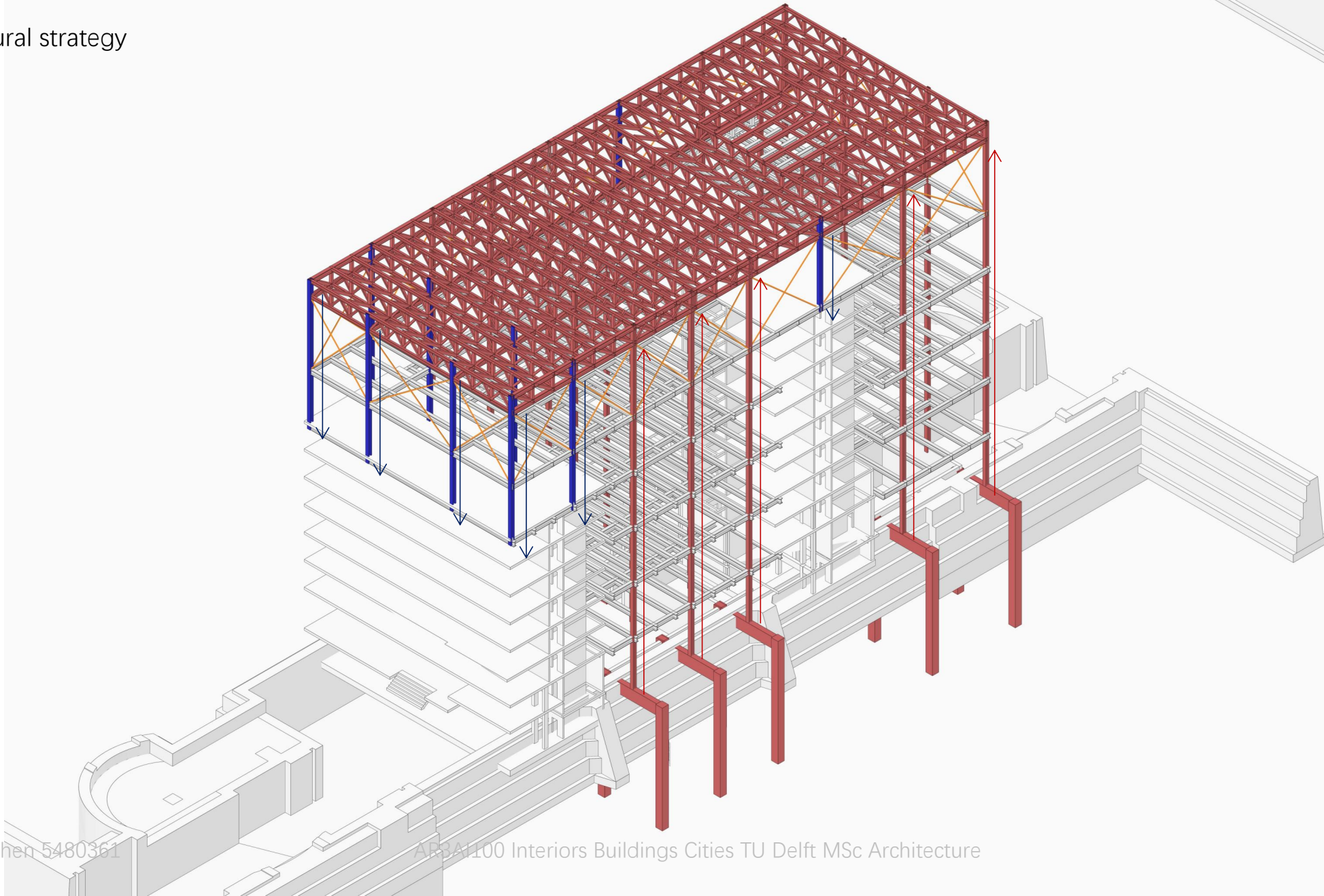
detail 1:5



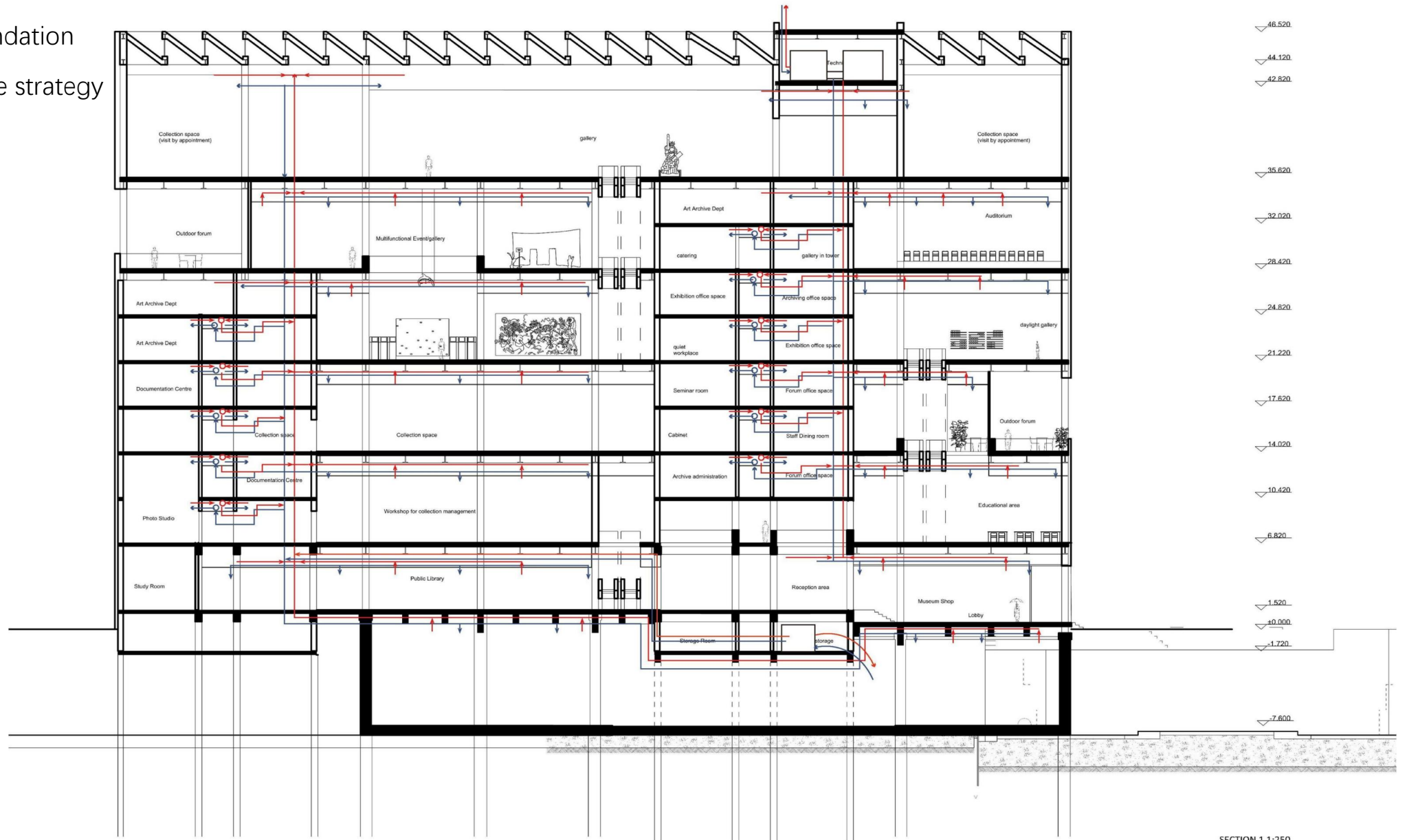
detail 1:5



08 structure & foundation
structural strategy



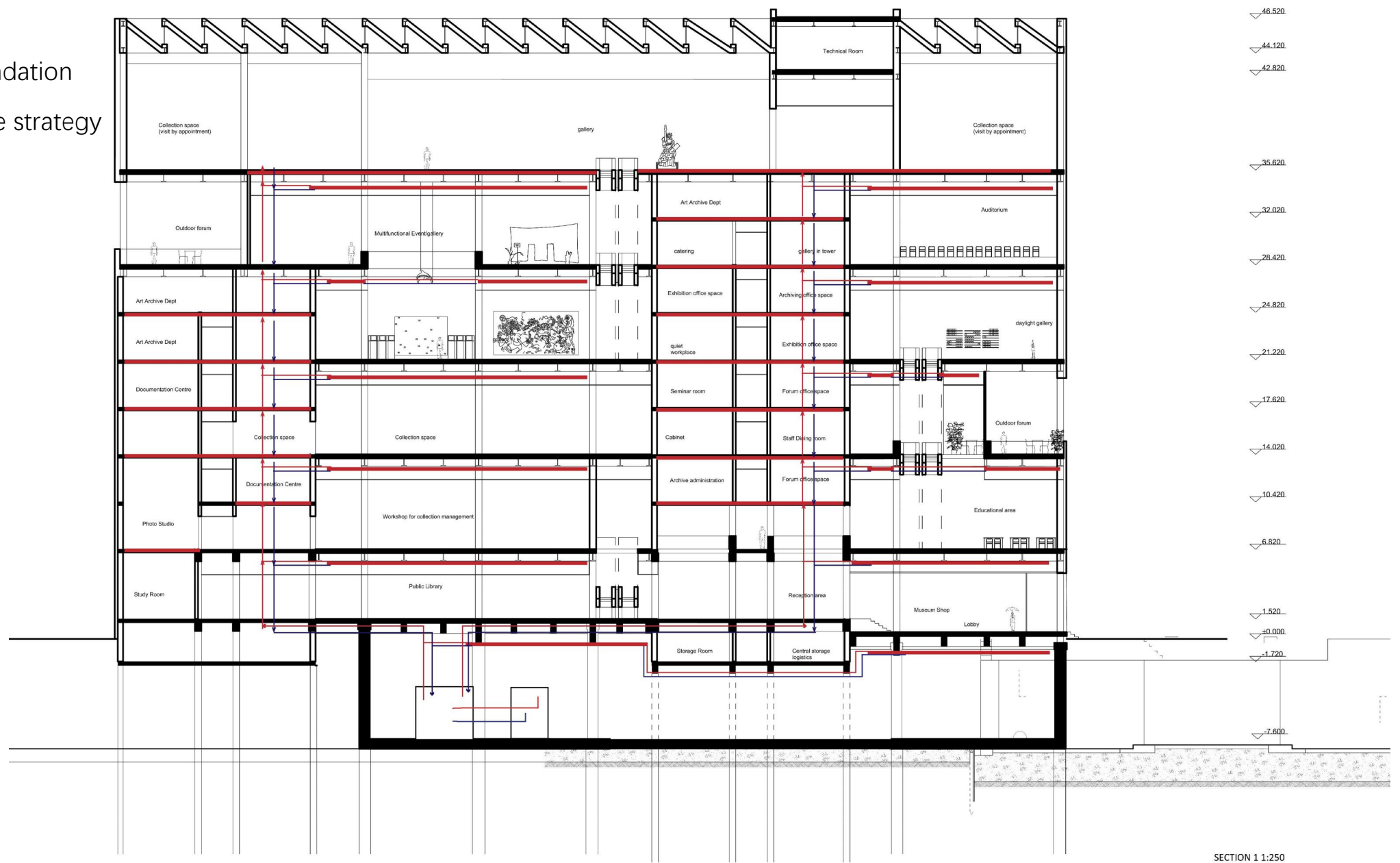
structure & foundation
servicing/climate strategy



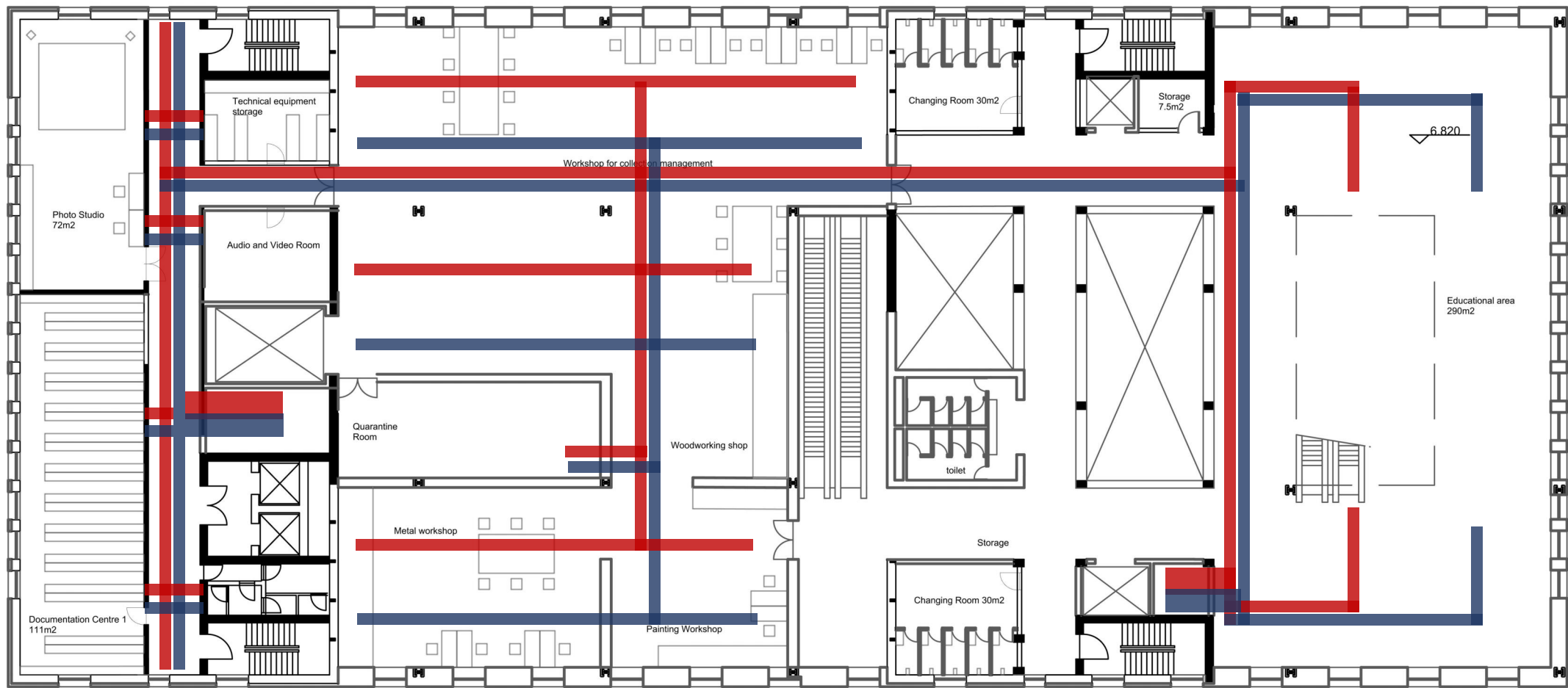
SECTION 1 1:250

Controlled ventilation system

structure & foundation
servicing/climate strategy



Water based - chilled & heated ceiling+floor



FLOOR 1 1:250

09 space-forum



Interior of the original building

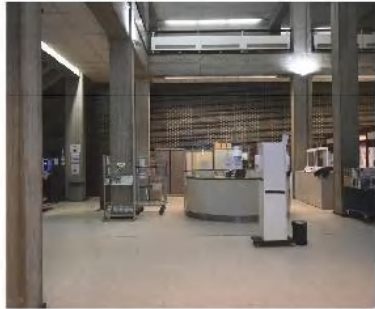
Outside



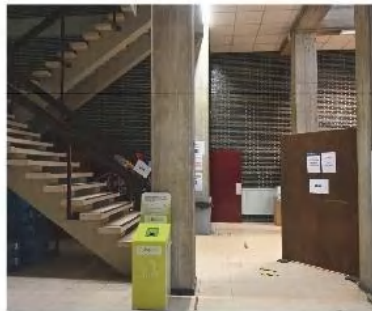
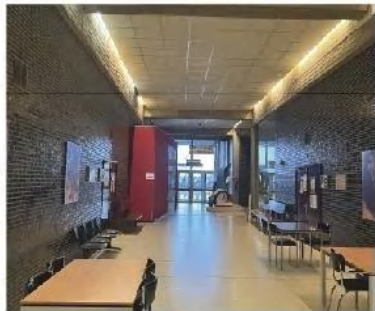
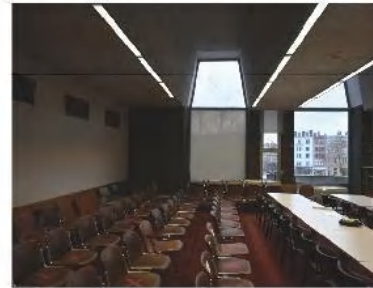
First floor



Ground floor



Courtrooms



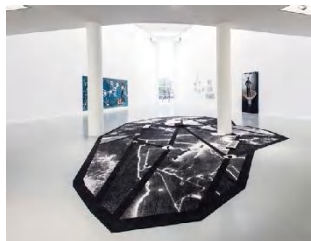
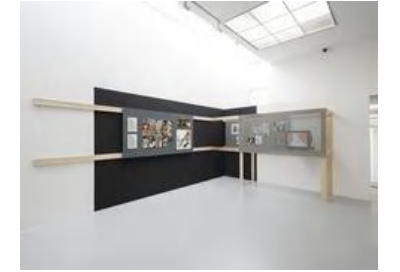
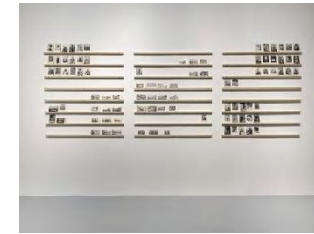
Basement



space-forum



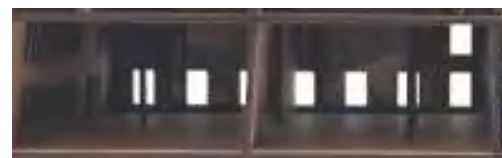
Space-exhibition
Artworks in MHKA



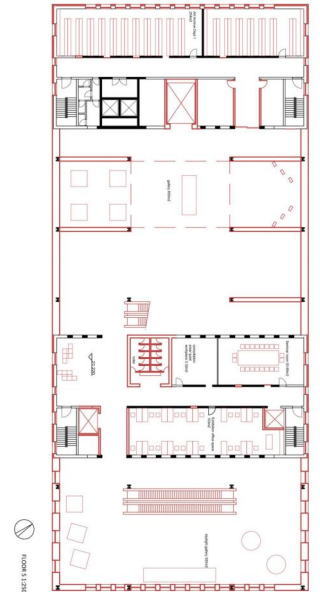
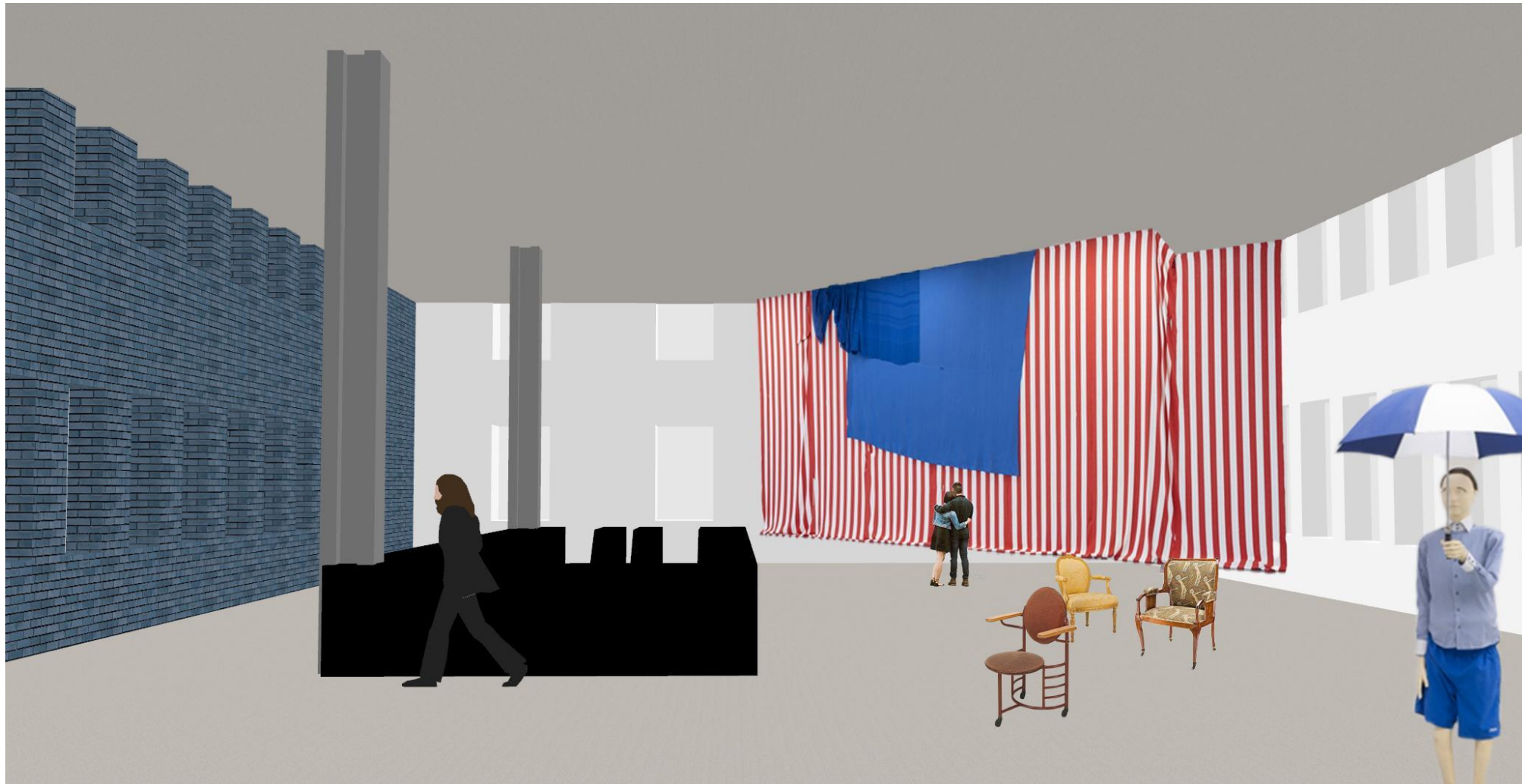
Space-exhibition



Space-exhibition



Space-exhibition 01



Space-exhibition 01



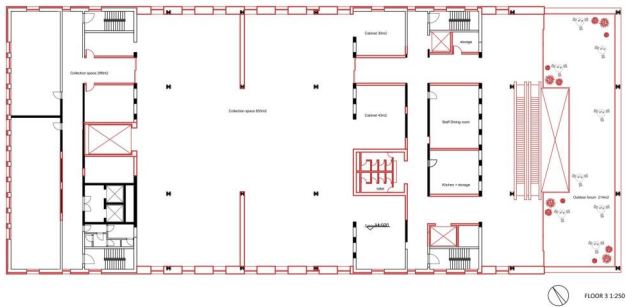
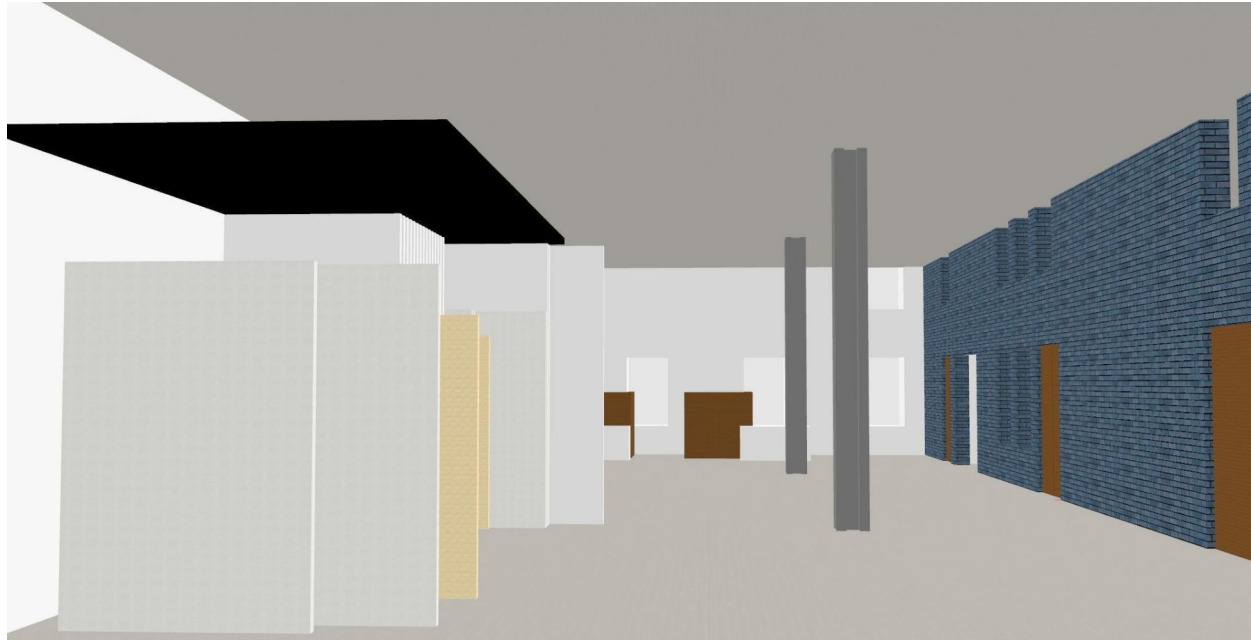
Collection space in MHKA



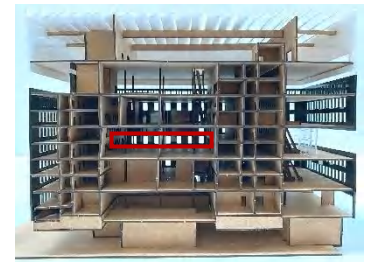
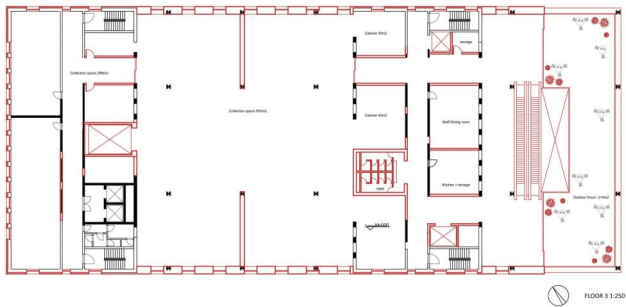
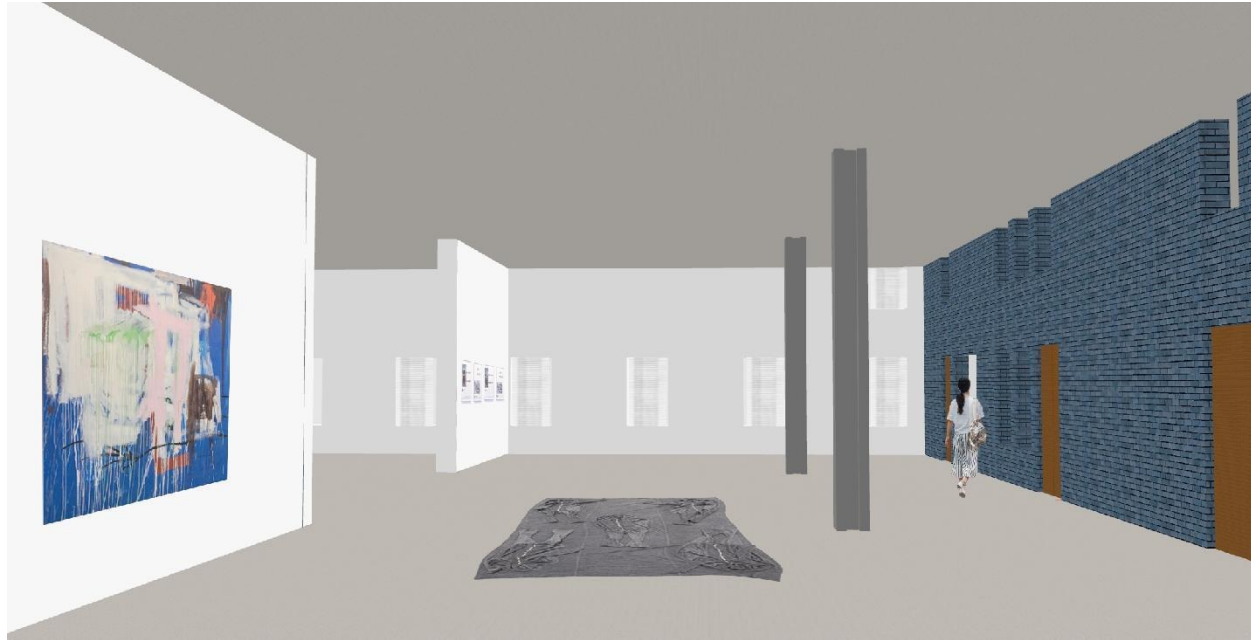
Collection space in MHKA

4.2	Collection component		3 032		16 408			
	circuit 1		1 792		10 408	1,3	2 330	13 530
	main rooms type 1	4	640	8,00	5 120			
	main rooms type 2	6	624	5,00	3 120			
	side rooms type 1	5	320	4,50	1 440			
	cabinets	8	208	3,50	728			
	circuit 2		1 040		5 200	1,3	1 352	6 760
	main hall type 2	10	1 040	5,00	5 200			
	round room	1	200	4,00	800	1,3	260	1 040
4.3	Exhibition component		3 150		19 800			
	main circuit	1	1 800	6,00	10 800	1,5	2 700	16 200
	secondary circuit 1	1	450	8,00	3 600	1,5	675	5 400
	secondary circuit 2	2	900	6,00	5 400	1,5	1 350	8 100
4.4.7.3	art archive depot	1	750	4,50	3 375	1,5	1 125	5 063
4.7.3	Room for collection management							
4.7.3.1	Quarantine room	1	27	4,50	122	1,4	38	170
4.7.3.2	Workshop	1	234	4,50	1 053	1,4	328	1 474
4.7.3.5	Photo studio	1	36	4,50	162	1,4	50	227
4.7.3.6	Closed indoor depot	1	675	7,00	4 725	1,4	945	6 615

Space-exhibition 02



Space-exhibition 02

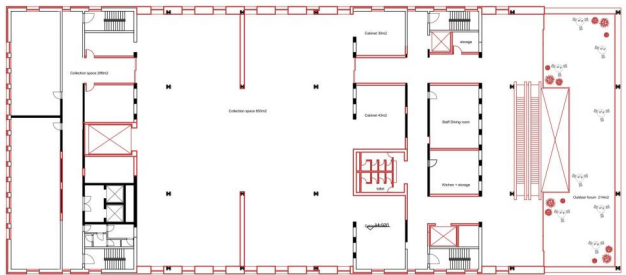
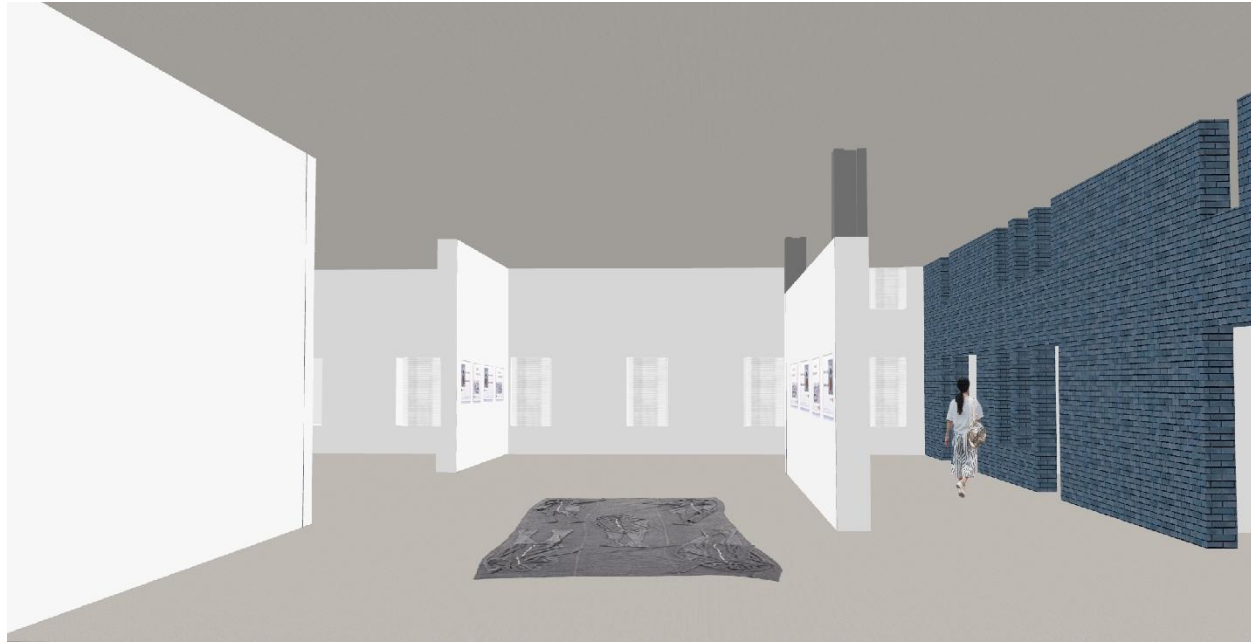


Space-exhibition 02



Wiels contemporary art in Brussel

Space-exhibition 02



Jiaxin Chen 5480361

AR3AI100 Interiors Buildings Cities TU Delft MSc Architecture



122

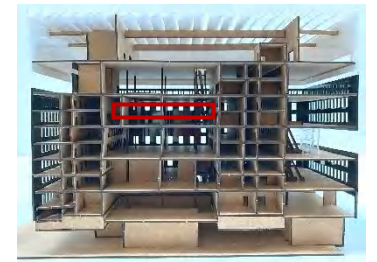
Space-exhibition 03



Jiaxin Chen 5480361

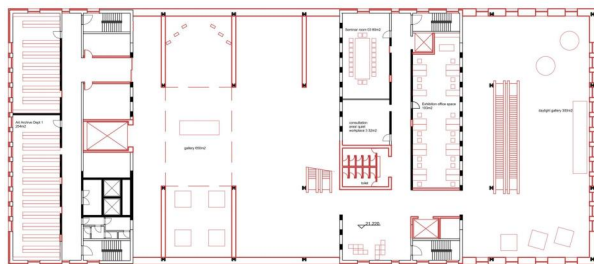
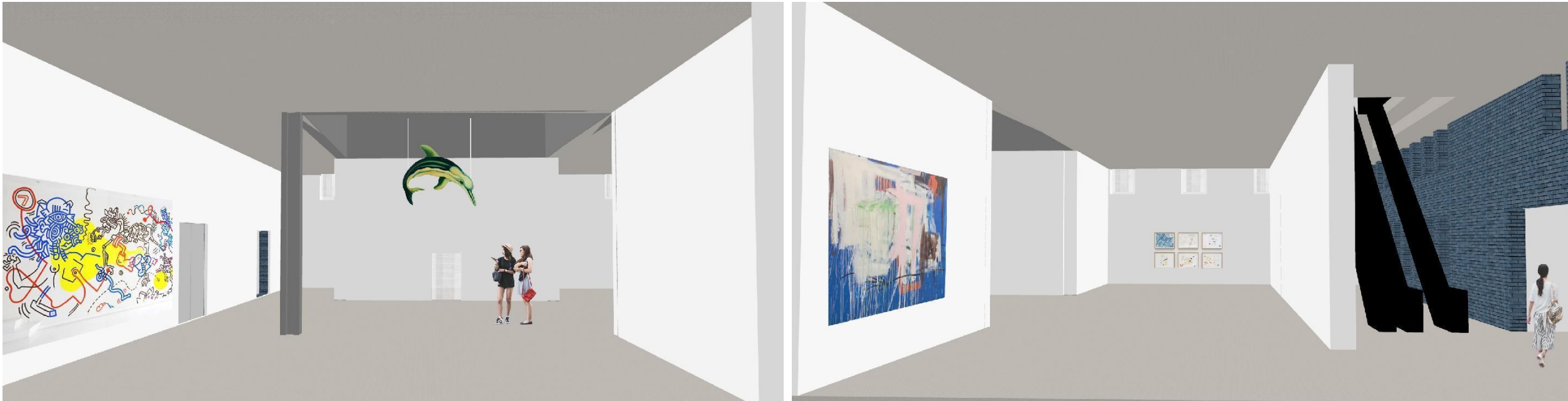
FLOOR 1.1.120

AR3AI100 Interiors Buildings Cities TU Delft MSc Architecture



123

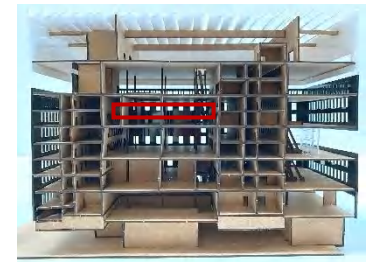
Space-exhibition 03



Jiaxin Chen 5480361

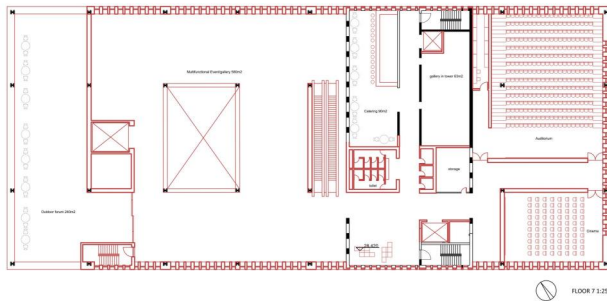
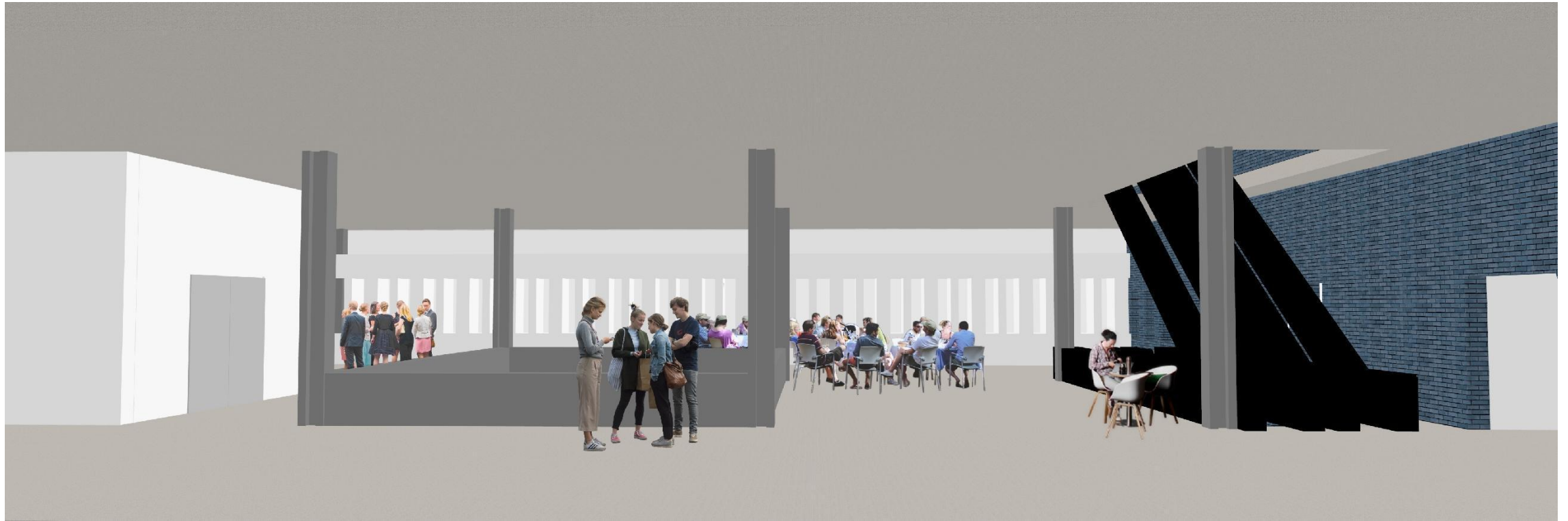
FLOOR 1.1200

AR3AI100 Interiors Buildings Cities TU Delft MSc Architecture

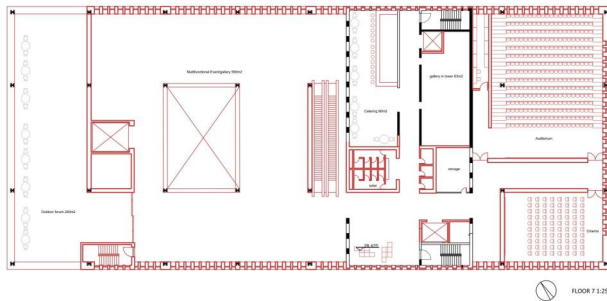
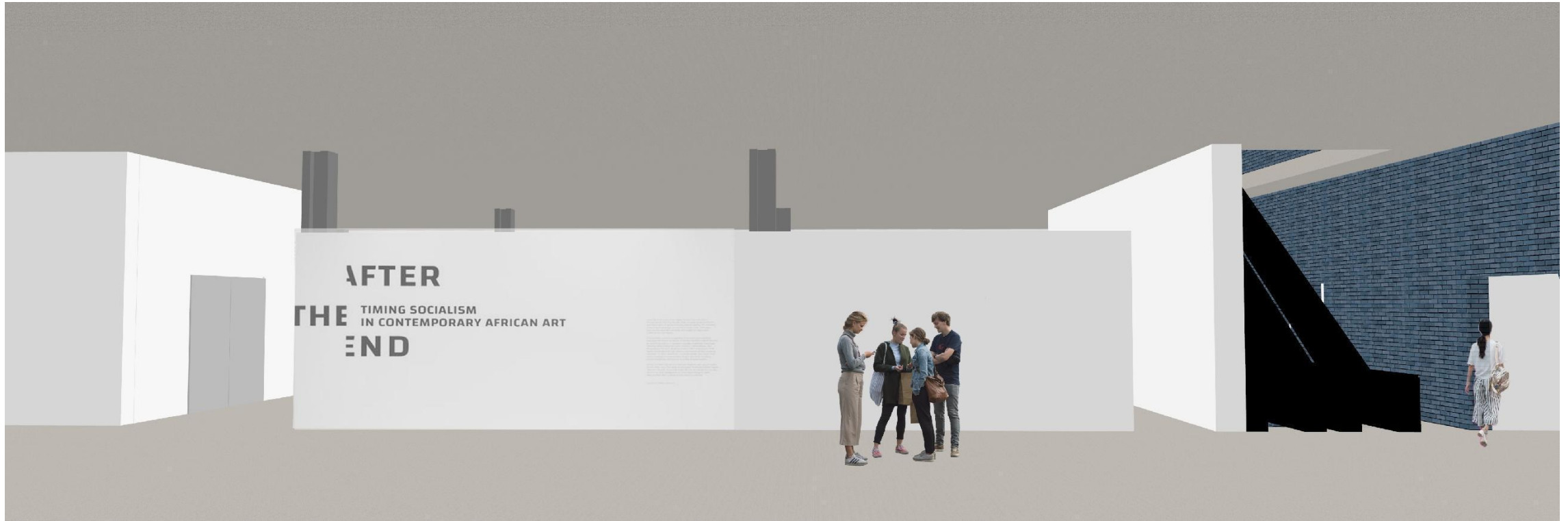


124

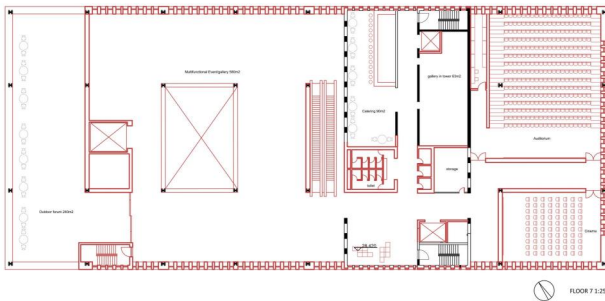
Space-exhibition 04



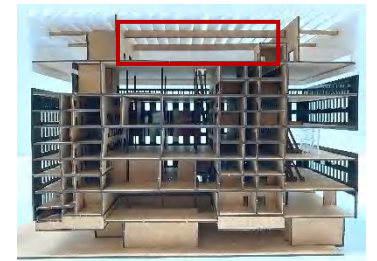
Space-exhibition 04



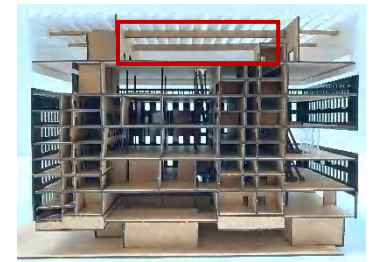
Space-exhibition 04



Space-exhibition 05



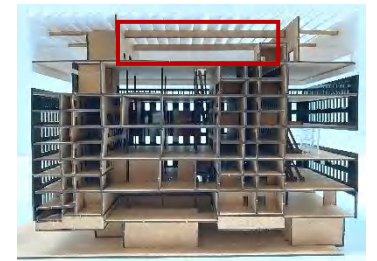
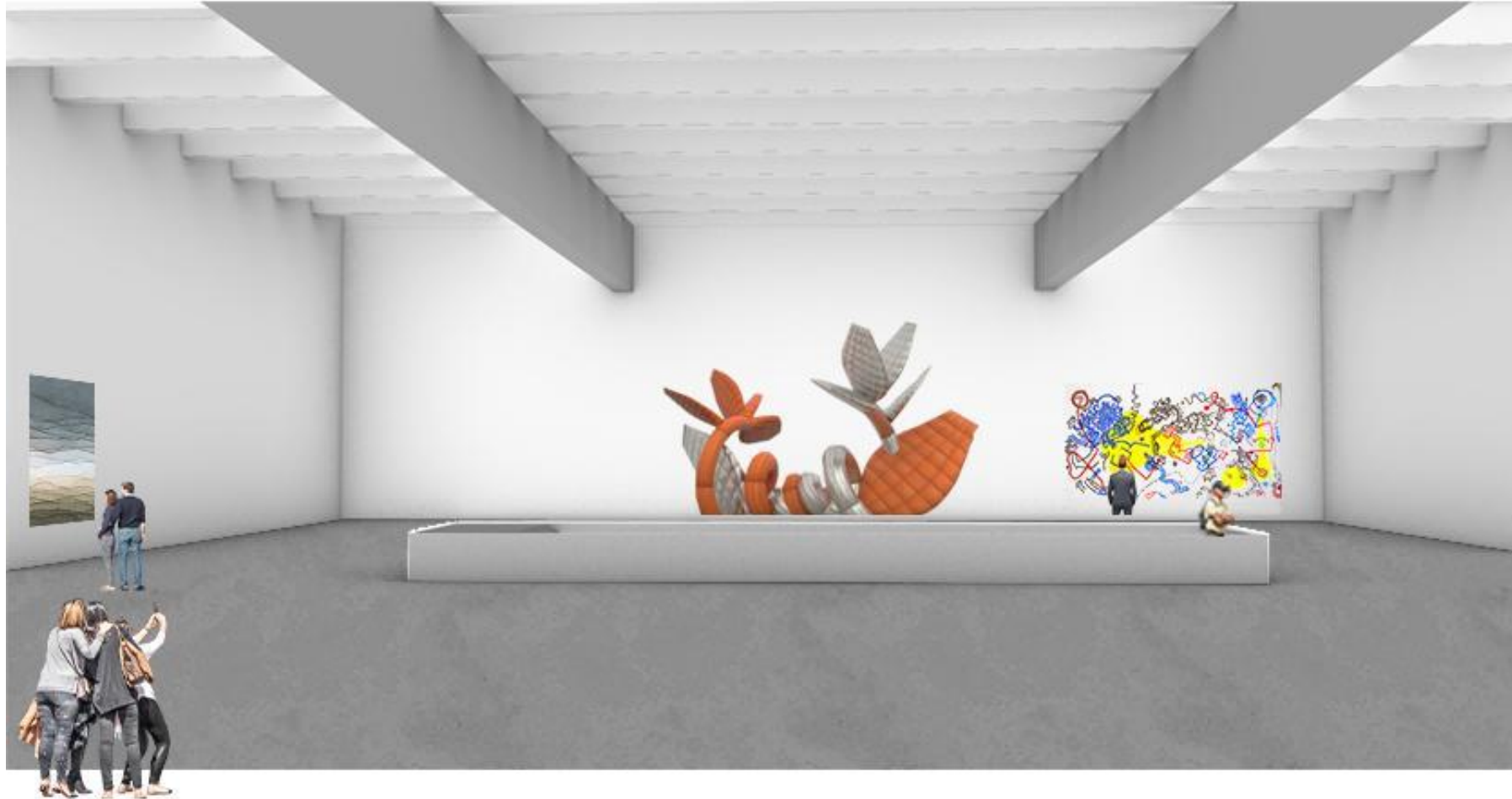
Space-exhibition 05

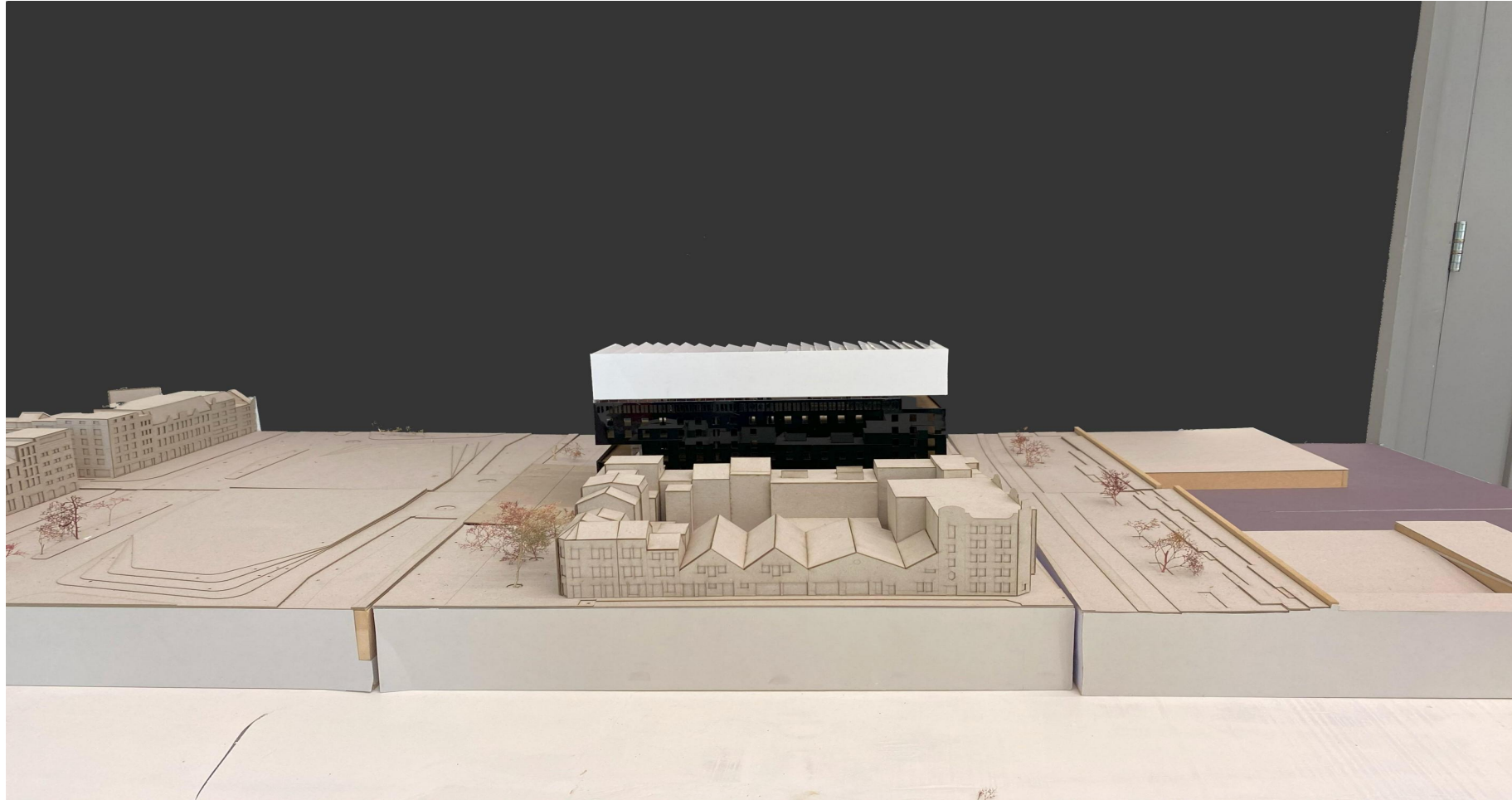


Space-exhibition 05



Space-exhibition 05





Thanks for watching!