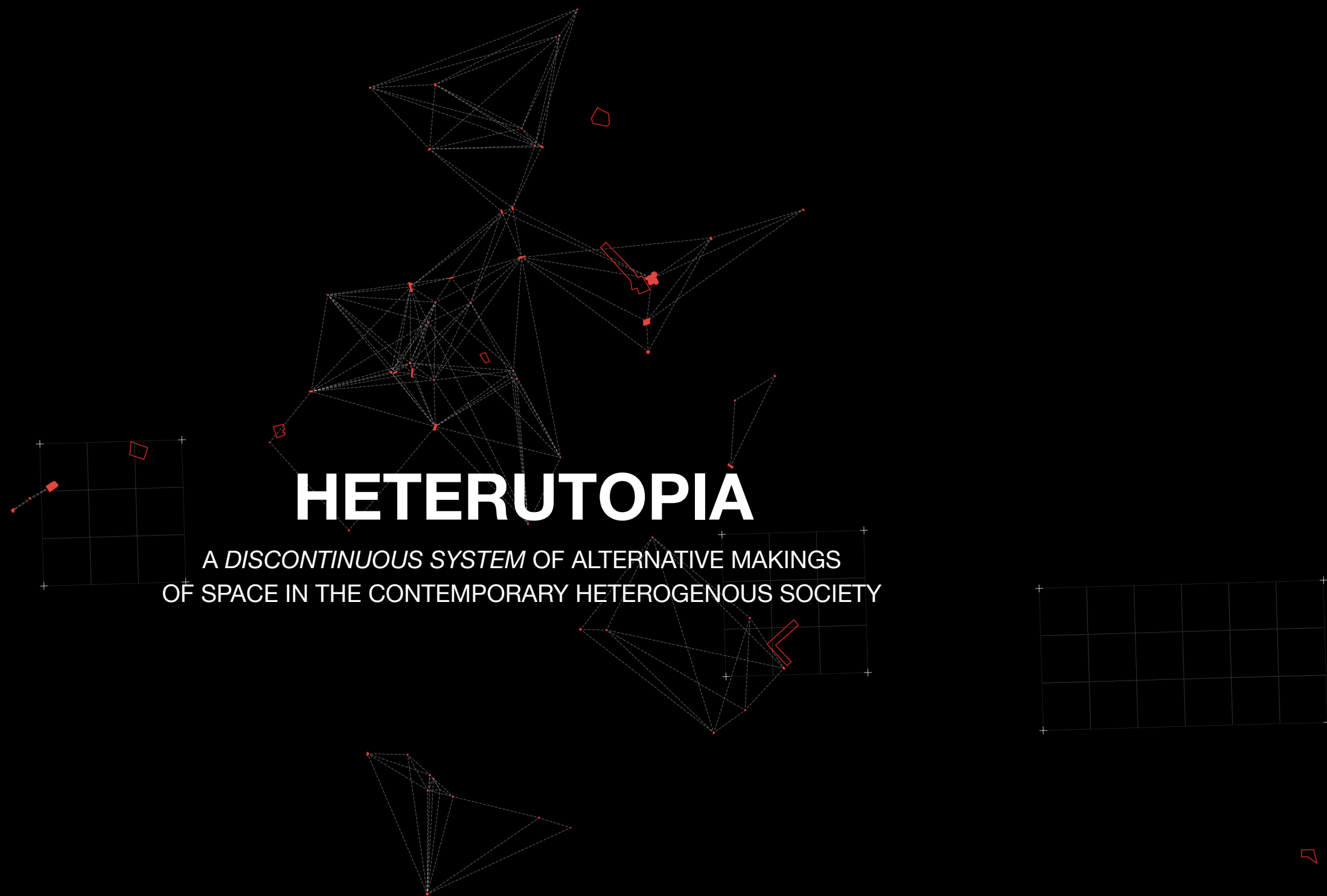




HETERUTOPIA

A DISCONTINUOUS SYSTEM OF ALTERNATIVE MAKINGS
OF SPACE IN THE CONTEMPORARY HETEROGENOUS SOCIETY

LORENZO BONDAVALLI
DELFT UNIVERSITY OF TECHNOLOGY
EXPLORE LAB 31
A.Y. 21-22

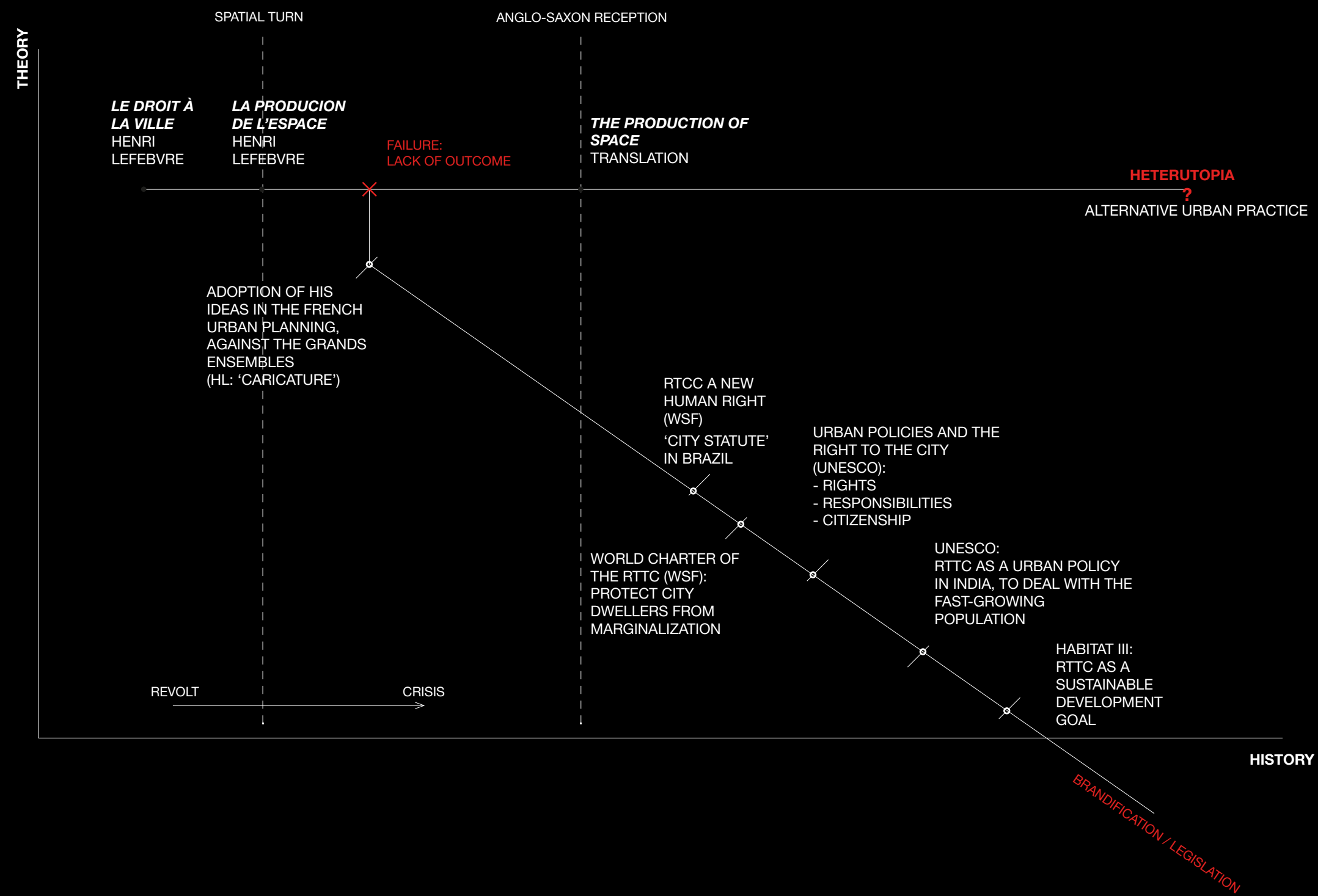
“[...] THE DEVELOPMENT OF SOCIETY IS CONCEIVABLE ONLY THROUGH THE REALISATION OF THE URBAN SOCIETY.”

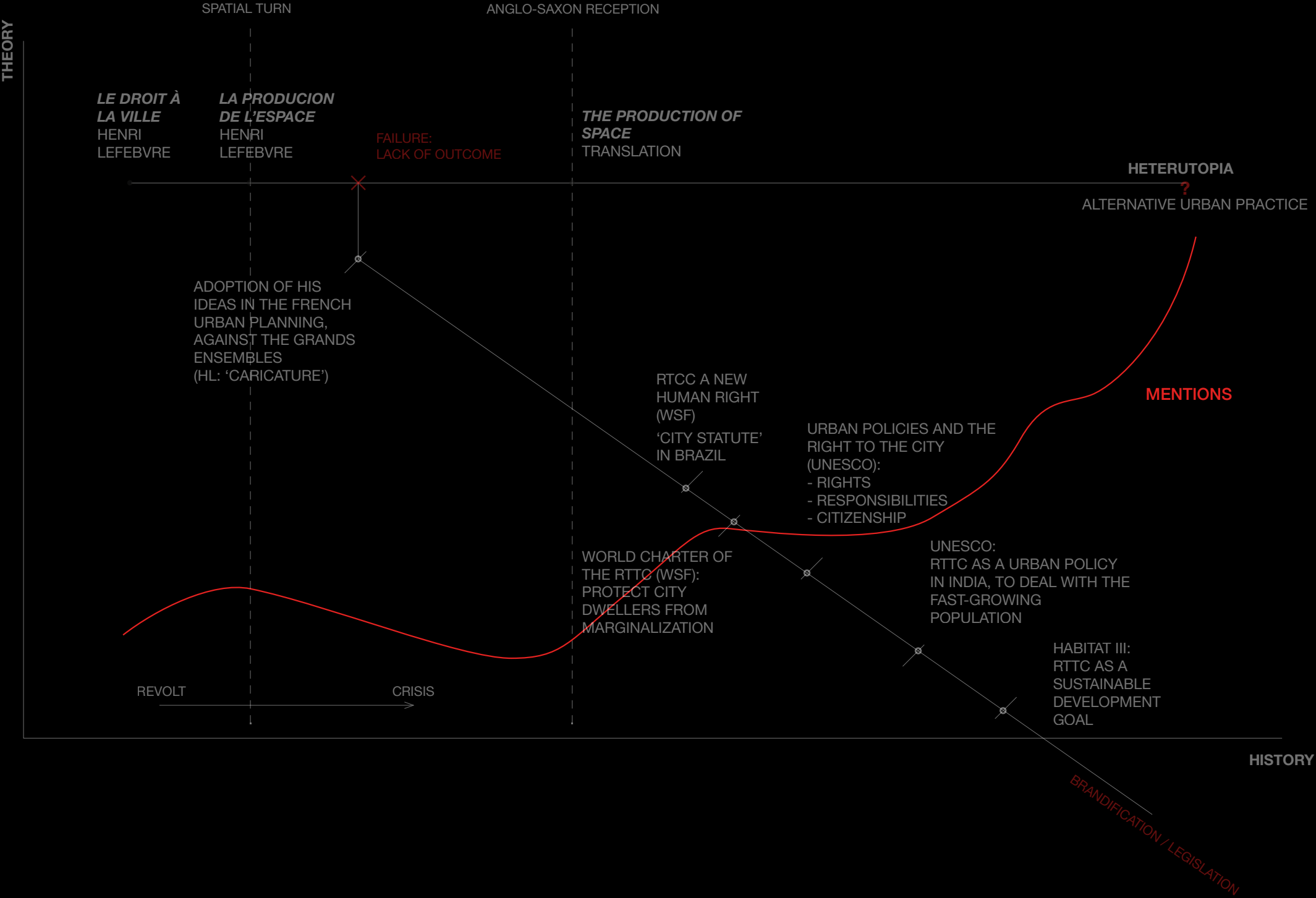
HENRI LEFEBVRE
LE DROIT A' LA VILLE
1968



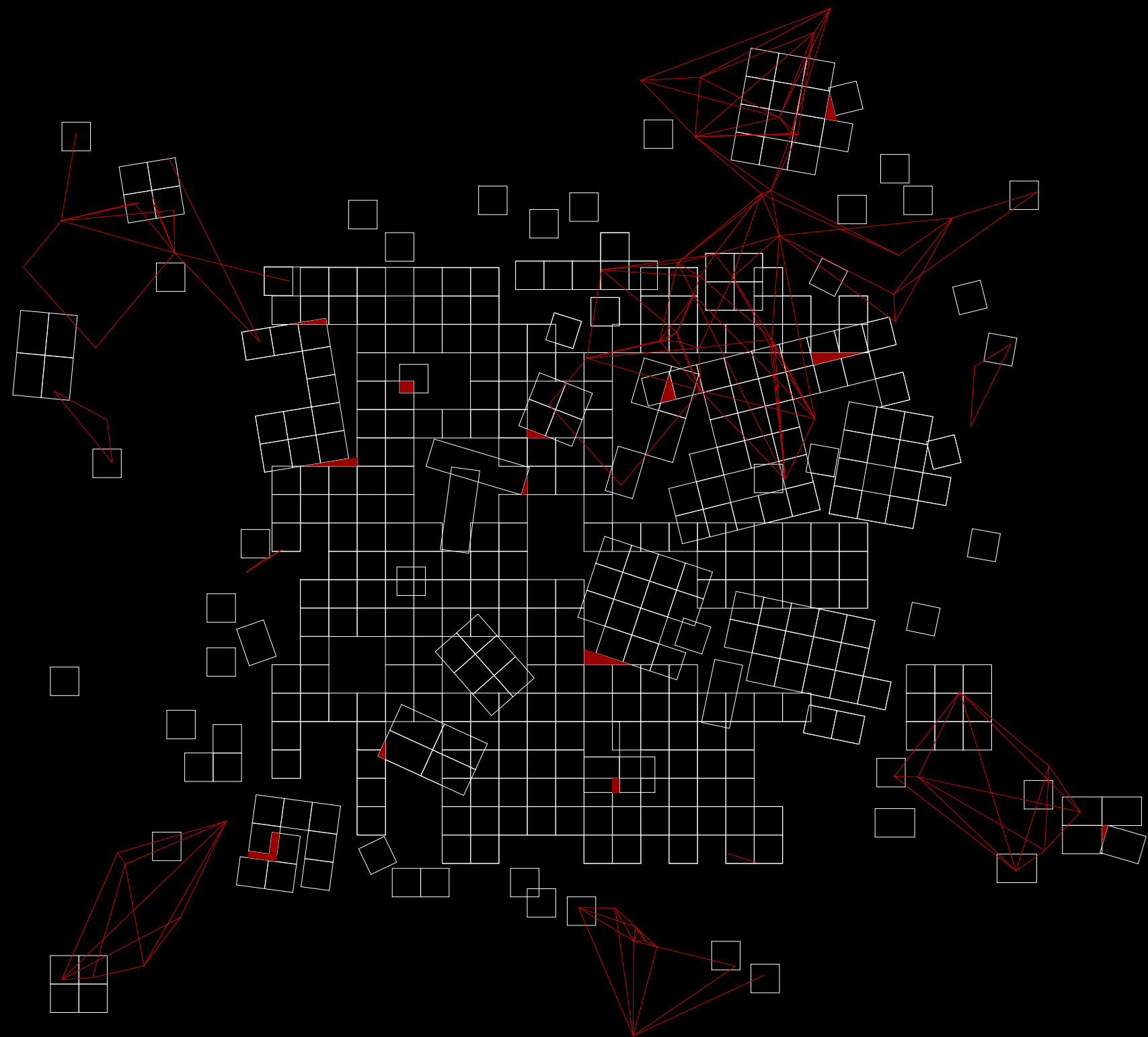
JEAN LUC GODARD
WEEK-END
1967

THE RIGHT TO (LIVED) SPACE





HOW AND TO WHAT EXTENT 'THE RIGHT TO THE CITY' CAN BE GROUNDED INTO A PRODUCTIVE SPATIAL AGENCY,
ACTIVATING A DIVERSE AND DYNAMIC WAY OF LIVING THE 'HETEROGENEOUS URBAN SCAPE'?



HETERUTOPIAN SPACE
SYSTEMIC

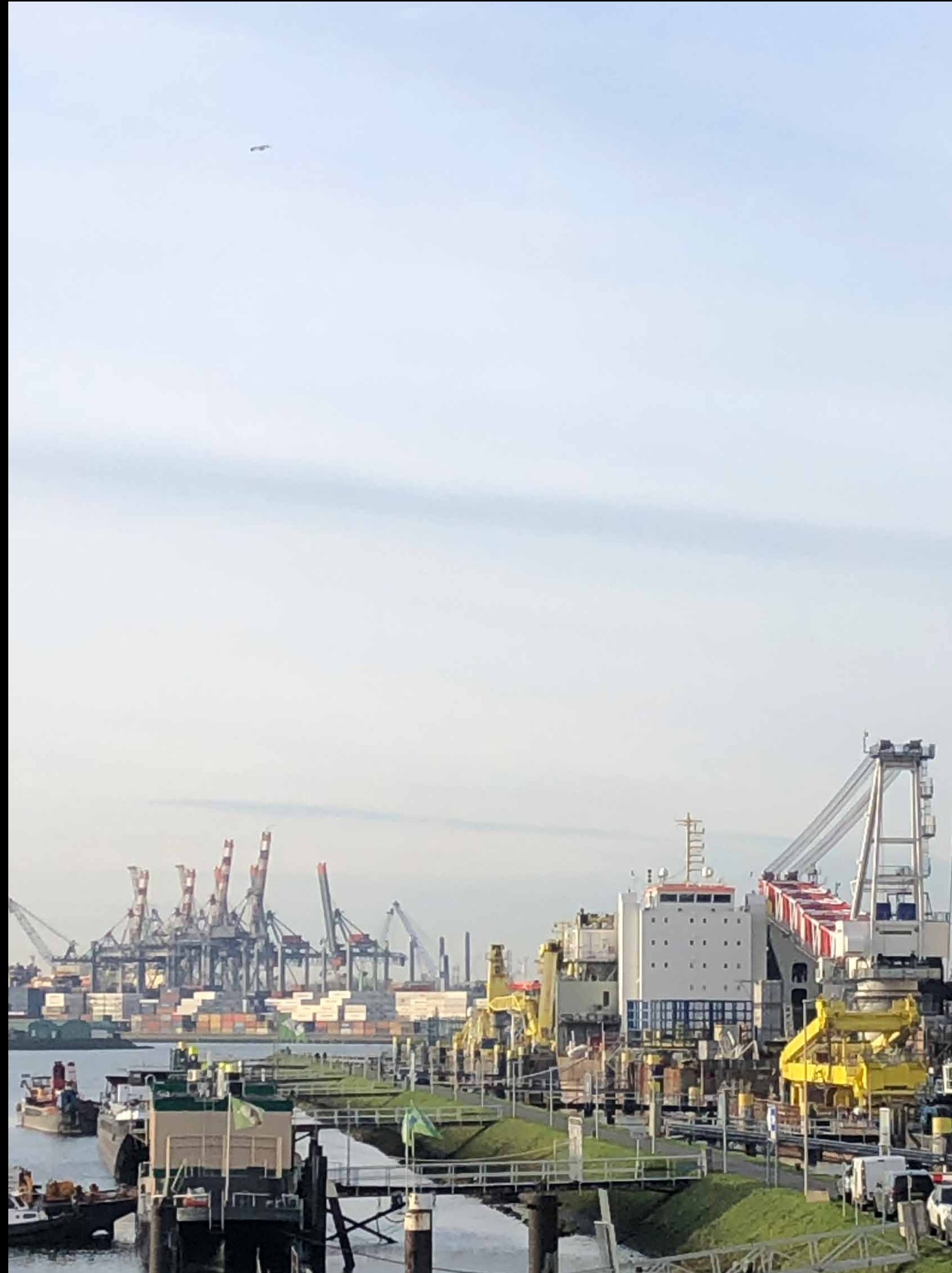
HETEROGENEOUS ROTTERDAM



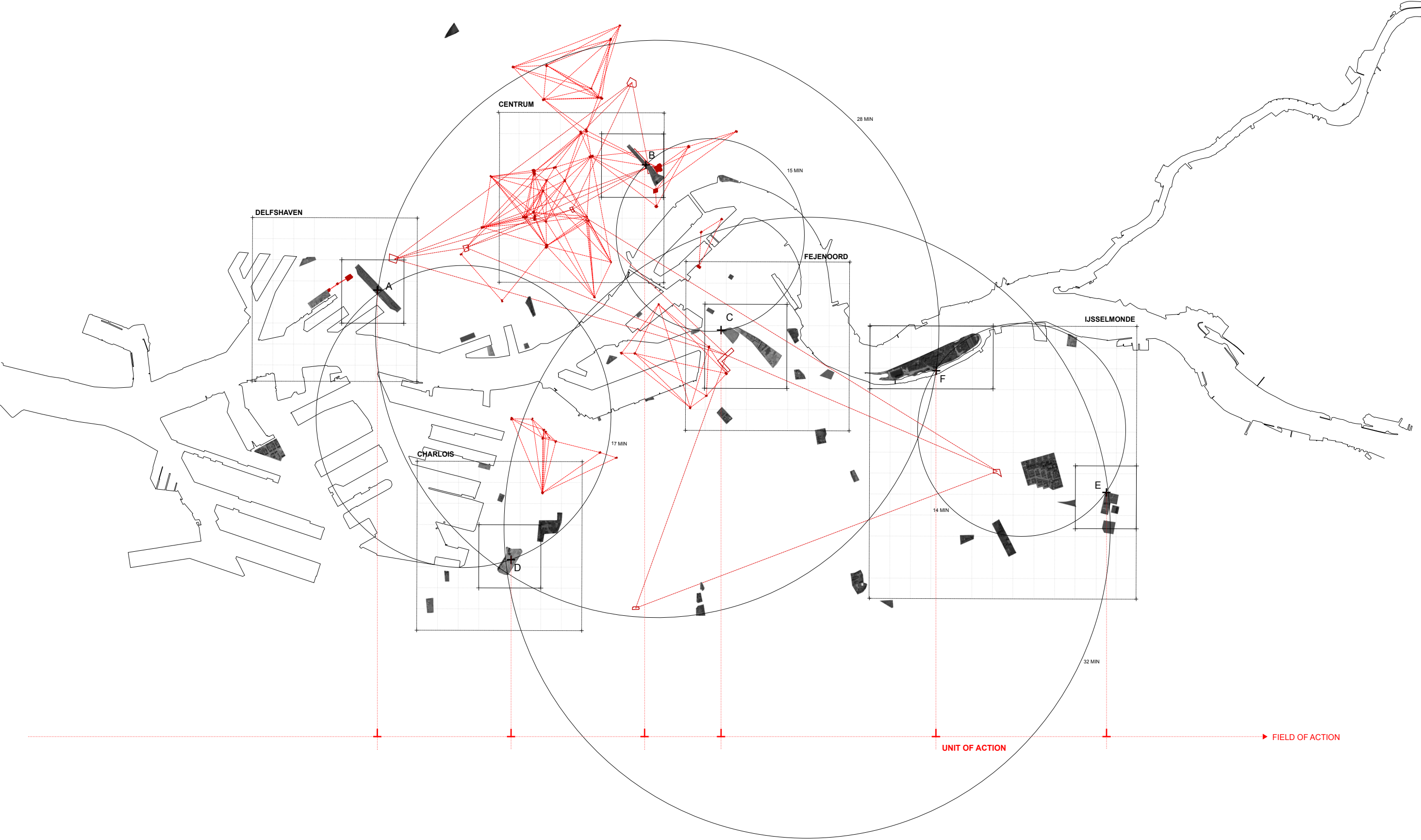
EILAND VAN BRIENENOORD, ROTTERDAM, 2020

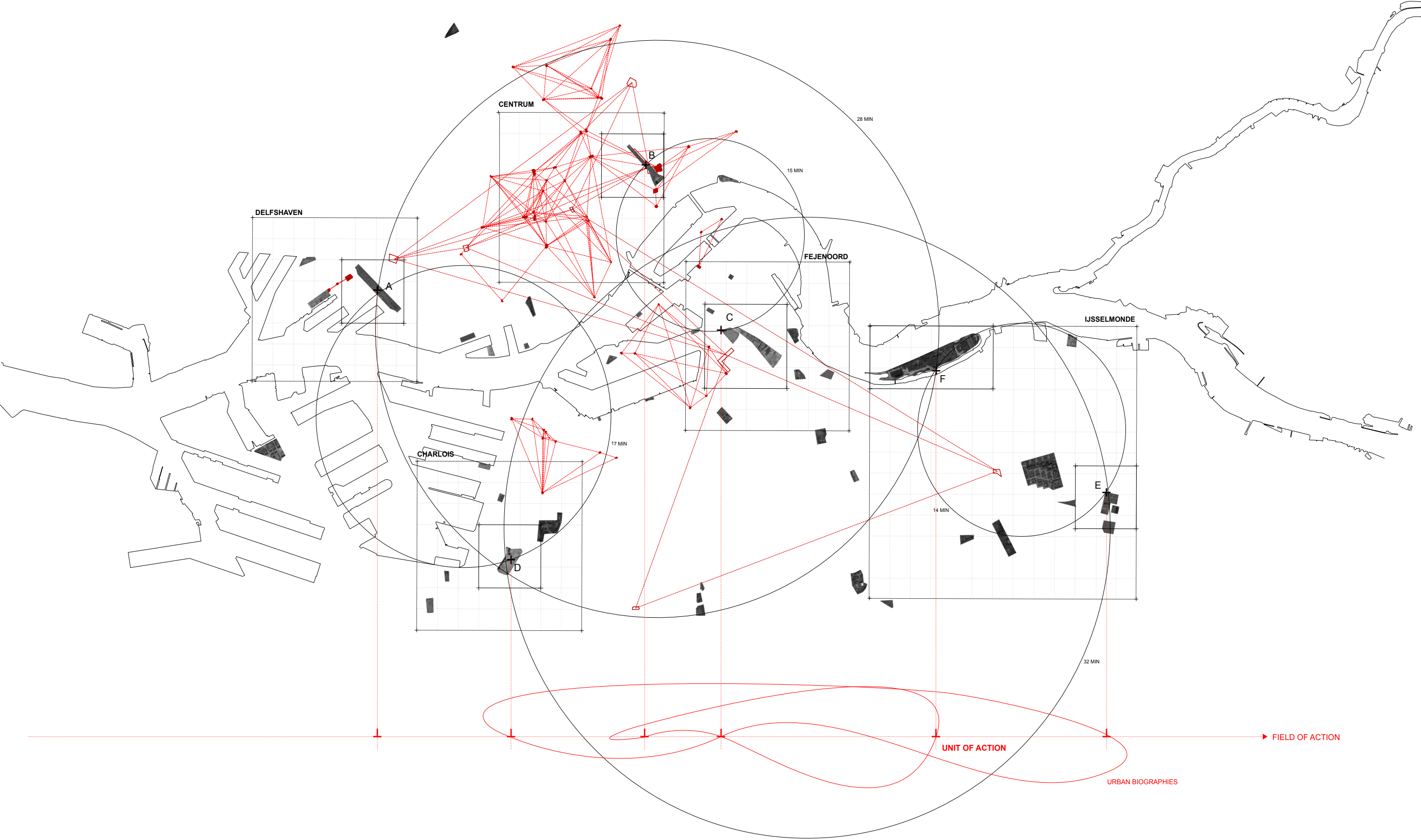


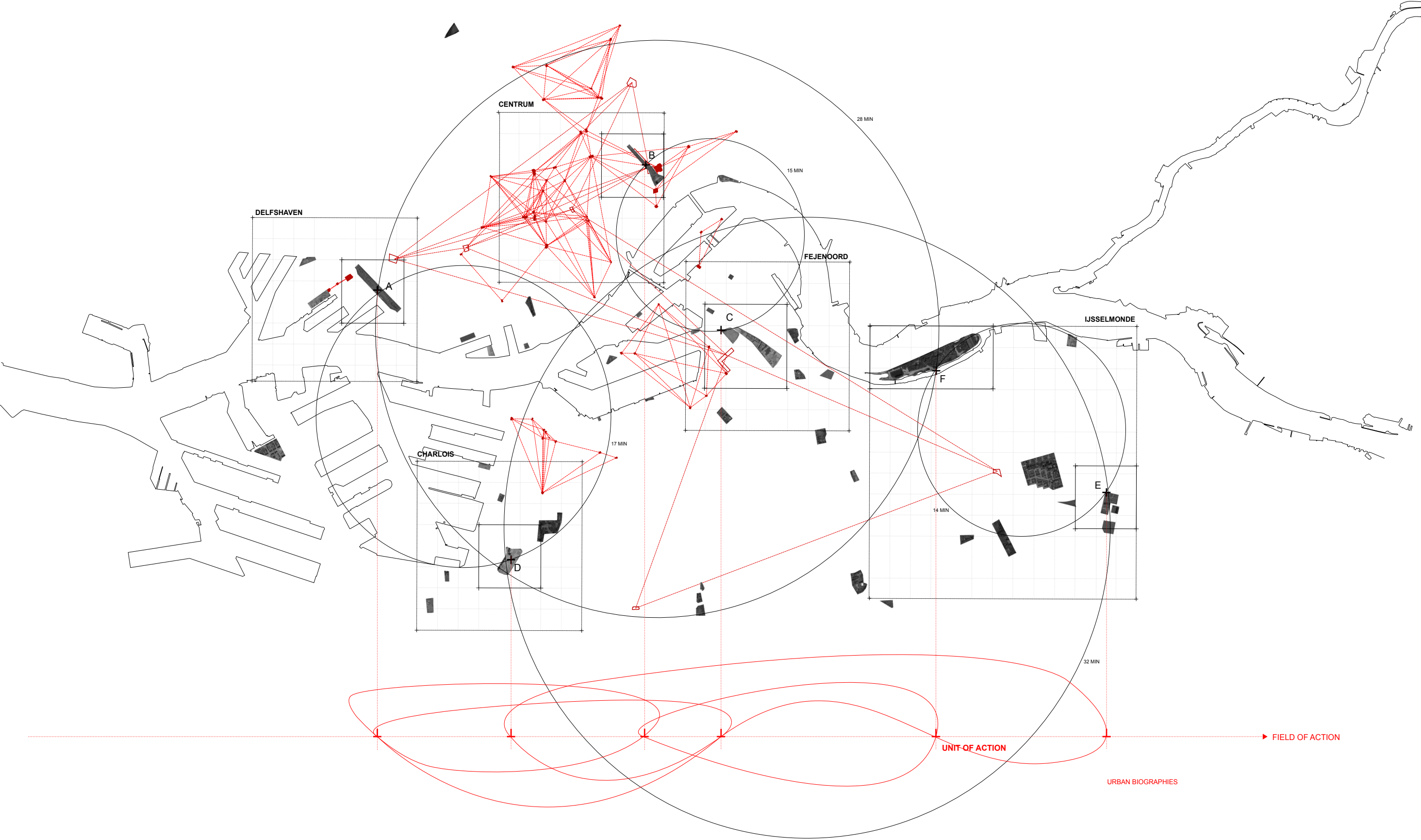
BEWERSVAARD, ROTTERDAM, 2020



WAALHAVEN, ROTTERDAM, 2020







WHICH ARCHITECTURAL 'AGENCY' CAN SUBVERT THE TECHNO-SPHERE, THUS ENHANCING AN EVERYDAY RESISTANCE AS WITHIN AND BEYOND ITS LOGICS OF PRODUCTION?

"MATRIX"

<i>TOPOGRAPHY</i>		1	2	3	n	
	A					+
<i>CAPACITY</i>						
<i>MATERIAL CONDITION</i>	B					+
	C					+
<i>USE CONDITION</i>						
	D					+
<i>ECOLOGY</i>						
	E					+
<i>ACTORS</i>						
	F					+
<i>PROGRAM</i>						+
	G					
<i>SPATIAL AGENCY</i>						+
<i>TIME CYCLE</i>						

TOPOGRAPHY

- 1 DELFSHAVEN
- 2 AAFRIKANDERWIJK
- 3 CENTRUM
- 4 CHARLOIS
- 5 IJSSELMONDE
- ...

CAPACITY

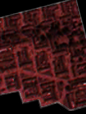
- M2
- KM2
- HA
- AC
- ...

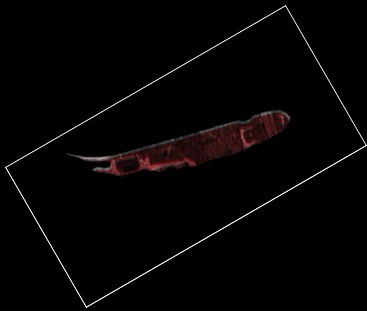
MATERIAL
CONDITION

- 1 SOIL
- 2 CONCRETE
- 3 WATER
- 4 TIDAL
- 5 SAND
- ...

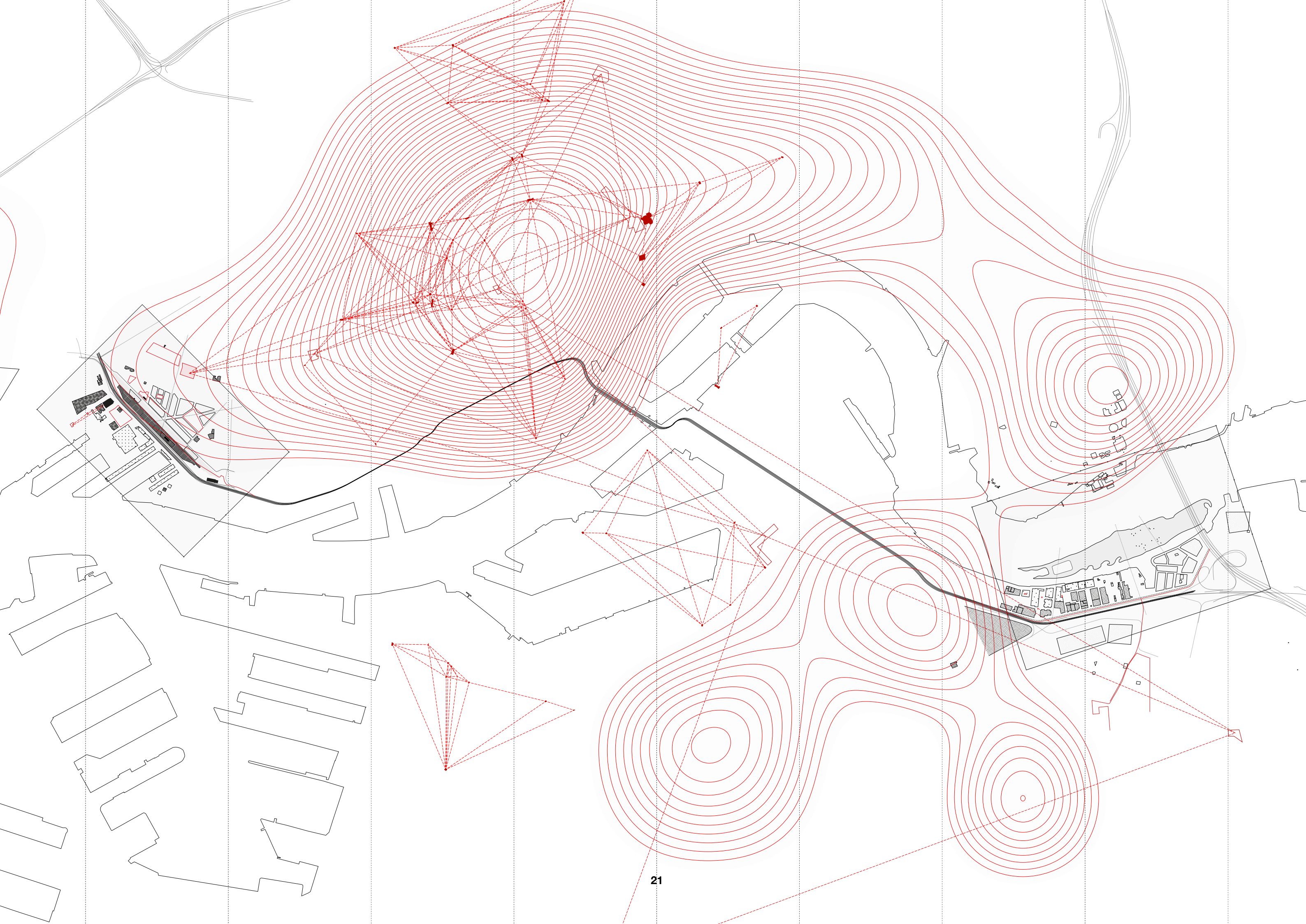
USE
CONDITION

- 1 VACANT
- 2 UNDERUSED
- 3 UNPROGRAMMED
- 4 OVERUSED
- ...

 M X.X						
						
						
						
						
						
						



TOPOGRAPHY		1	2	n		
CAPACITY	A	3 HA	19 HA		+	
	B	THIN SOIL / CONCRETE	WATER / WET SOIL / SAND		+	
	C	UNPROGRAMMED	UNDERUSED		+	
ECOLOGY		COMMUNITY	TERRITORY		+	+
ACTORS	E	LOCAL DWELLERS; DELFSHAVEN COÖPERATIE; DAKPARK FOUNDATION;	CITY DWELLERS; STICHTING 'N BRIES; ISLAND COUNCIL OF BUITENPLAATS BRIENENOORD; V.T.V.VAN BRIENENOORD;			
	F	CO-LIVING BUILDING WORKSHOP; COMMUNITY KITCHEN; LOOKOUT PLATFORM; APARTMENTS/SHELTERS	AGRICULTURE FARMING; ALLOTMENTS; WALKWAY; PUBLIC PARK; WATER POOLS		+	
SPATIAL AGENCY	G	ACTIVATE	TRANSFORM		+	
					+	
TIME CYCLE		DAY / WEEK	MONTH / YEAR			



TO WHAT EXTENT CAN ARCHITECTURE FACILITATE THE PROCESS OF SOCIAL RE-PRODUCTION?

"PROTOTYPE"



DAKPARK, ROTTERDAM, 2022



DAKPARK, ROTTERDAM, 2022

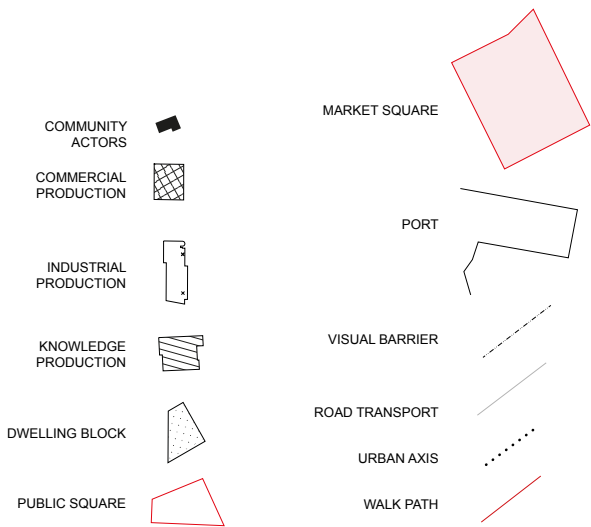
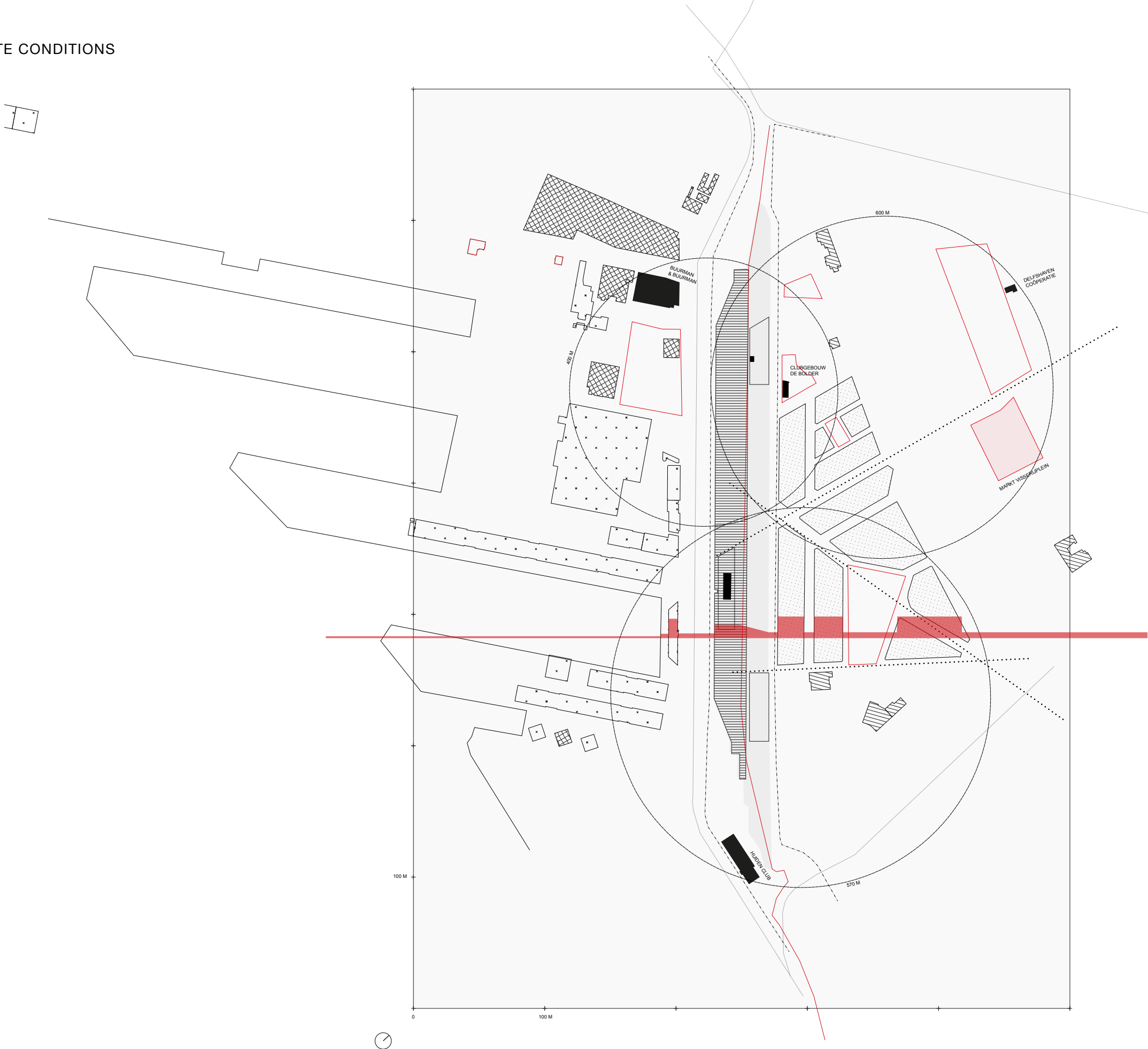


DAKPARK, ROTTERDAM, 2022



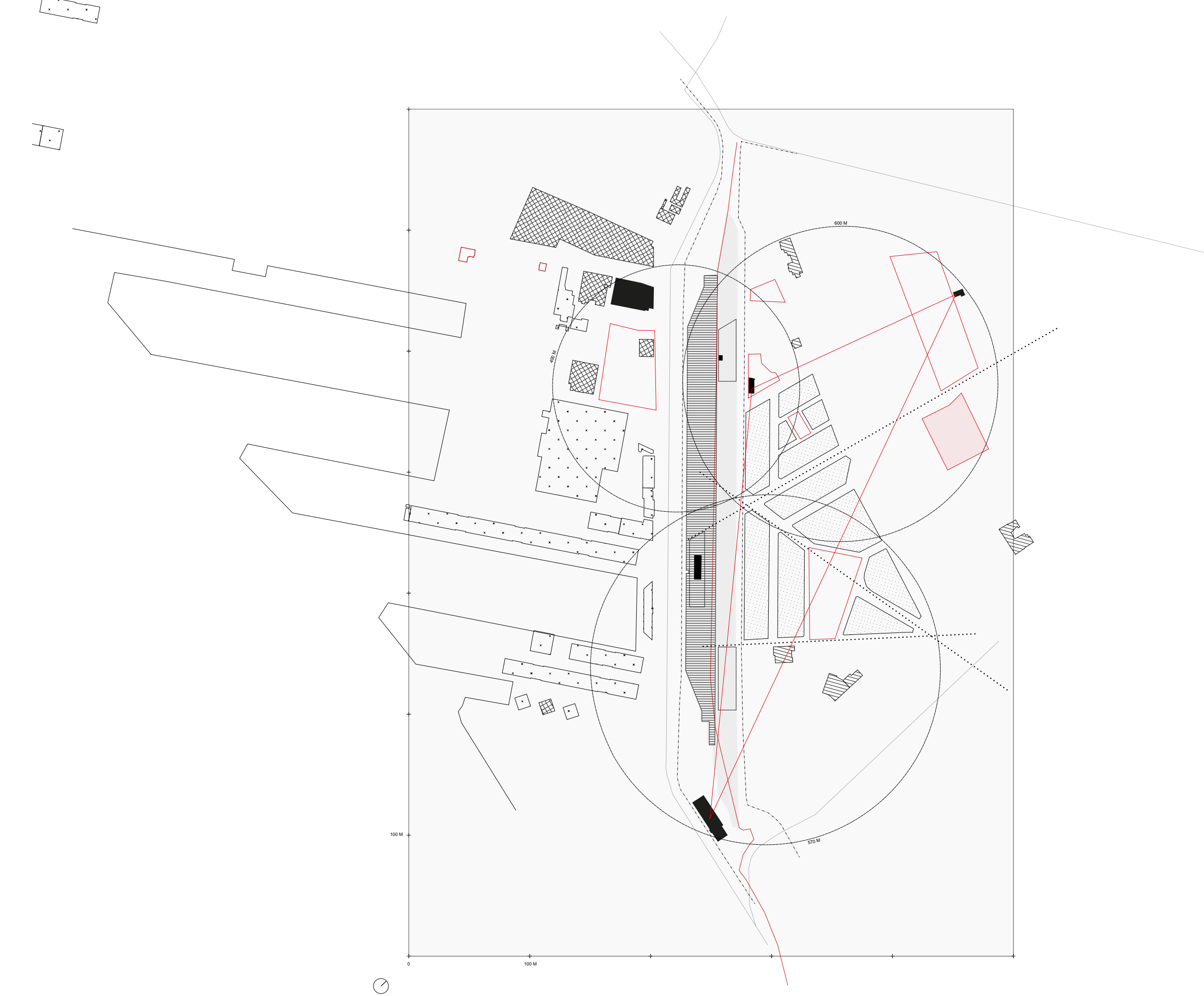
TOPOGRAPHY		1	2	n	
CAPACITY	A	3 HA	19 HA		+
	B	THIN SOIL / CONCRETE	WATER / WET SOIL / SAND		+
	C	UNPROGRAMMED	UNDERUSED		+
ECOLOGY		COMMUNITY	TERRITORY		+
ACTORS	E	LOCAL DWELLERS; DELFSHAVEN COÖPERATIE; DAKPARK FOUNDATION;	CITY DWELLERS; STICHTING 'N BRIES; ISLAND COUNCIL OF BUITENPLAATS BRIENENOORD; V.T.V.VAN BRIENENOORD;		+
	F	CO-LIVING BUILDING WORKSHOP; COMMUNITY KITCHEN; LOOKOUT PLATFORM; APARTMENTS/SHELTERS	AGRICULTURE FARMING; ALLOTMENTS; WALKWAY; PUBLIC PARK; WATER POOLS		+
SPATIAL AGENCY	G	ACTIVATE	TRANSFORM		+
					+
TIME CYCLE		DAY / WEEK	MONTH / YEAR		

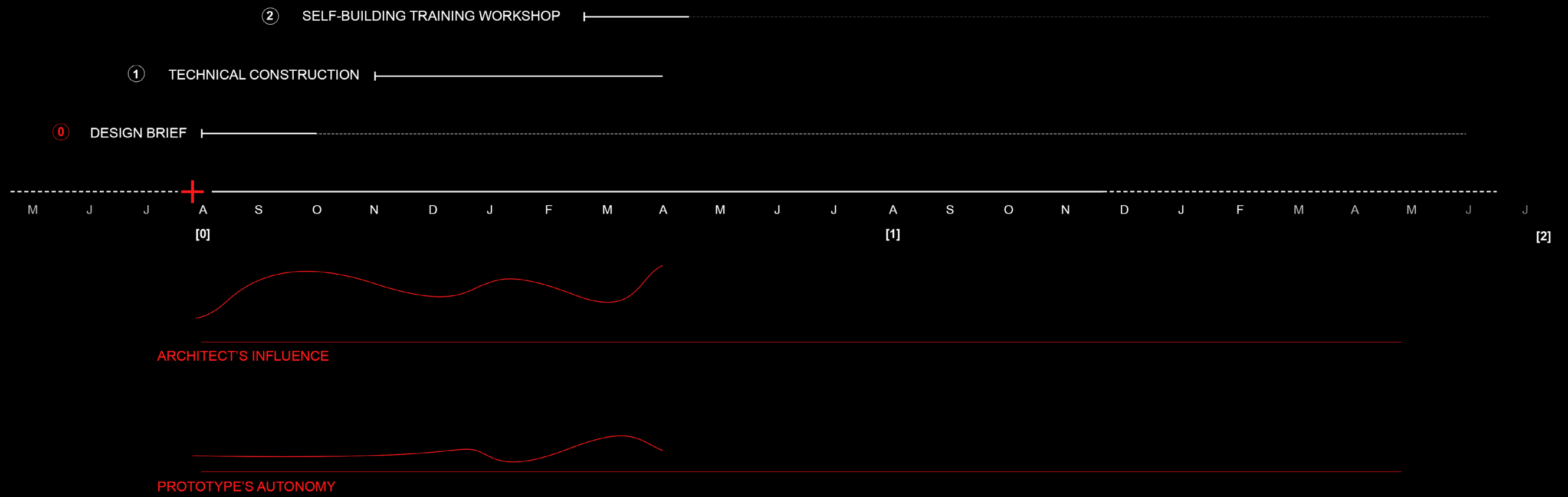
// SITE CONDITIONS

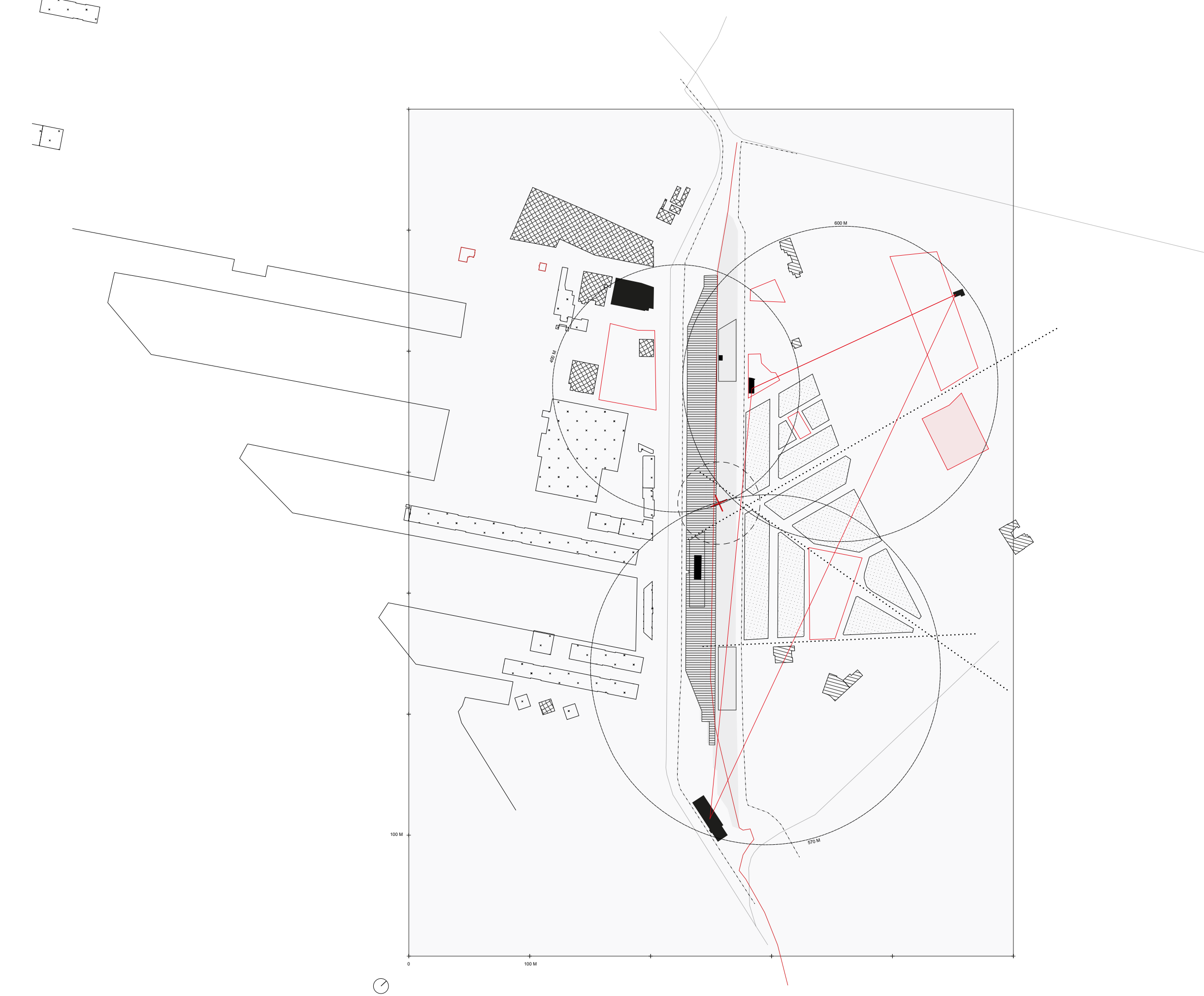


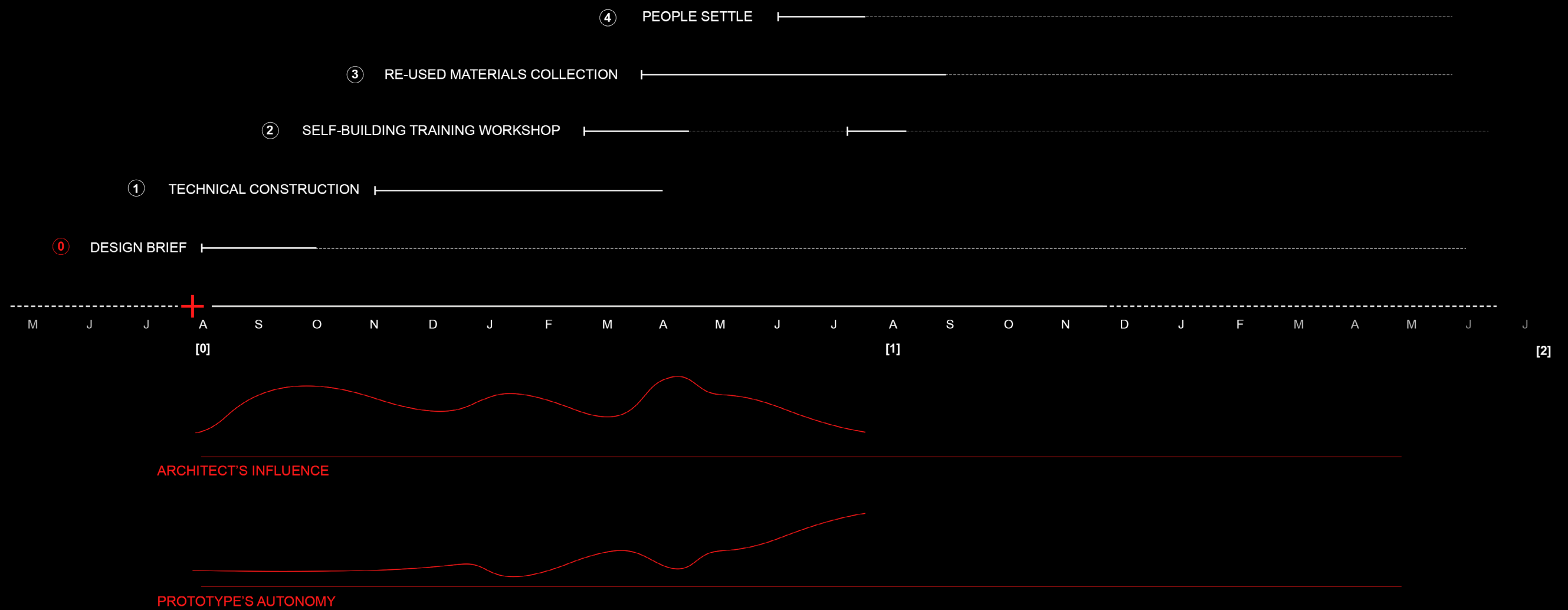
PHASAL FRAMEWORK



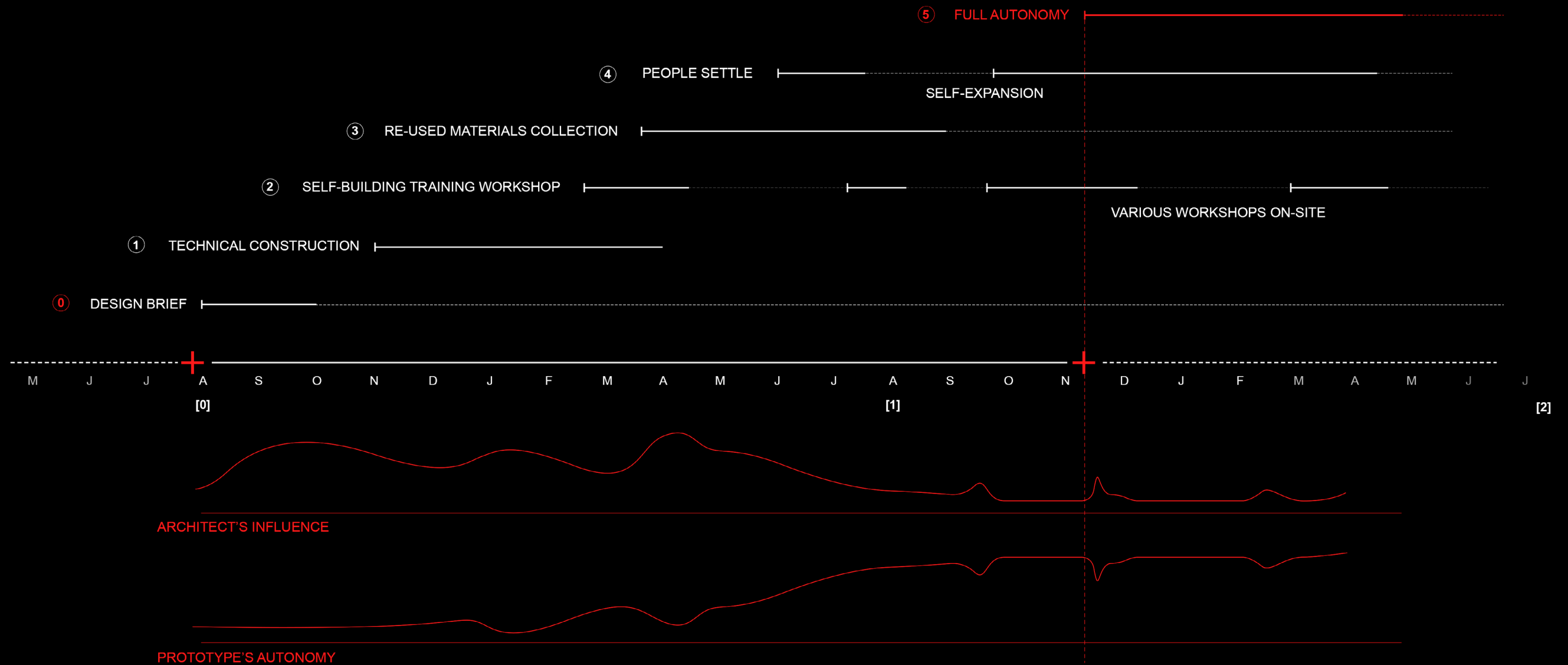


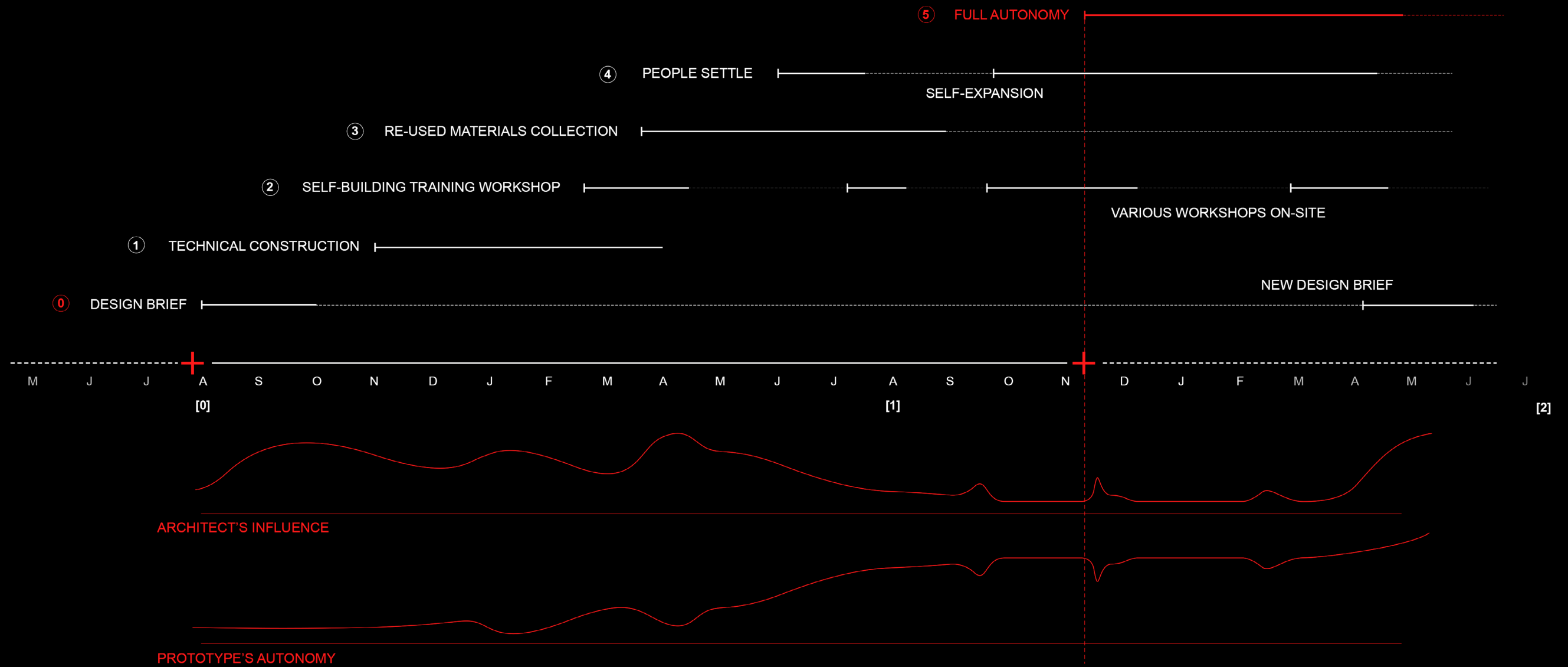


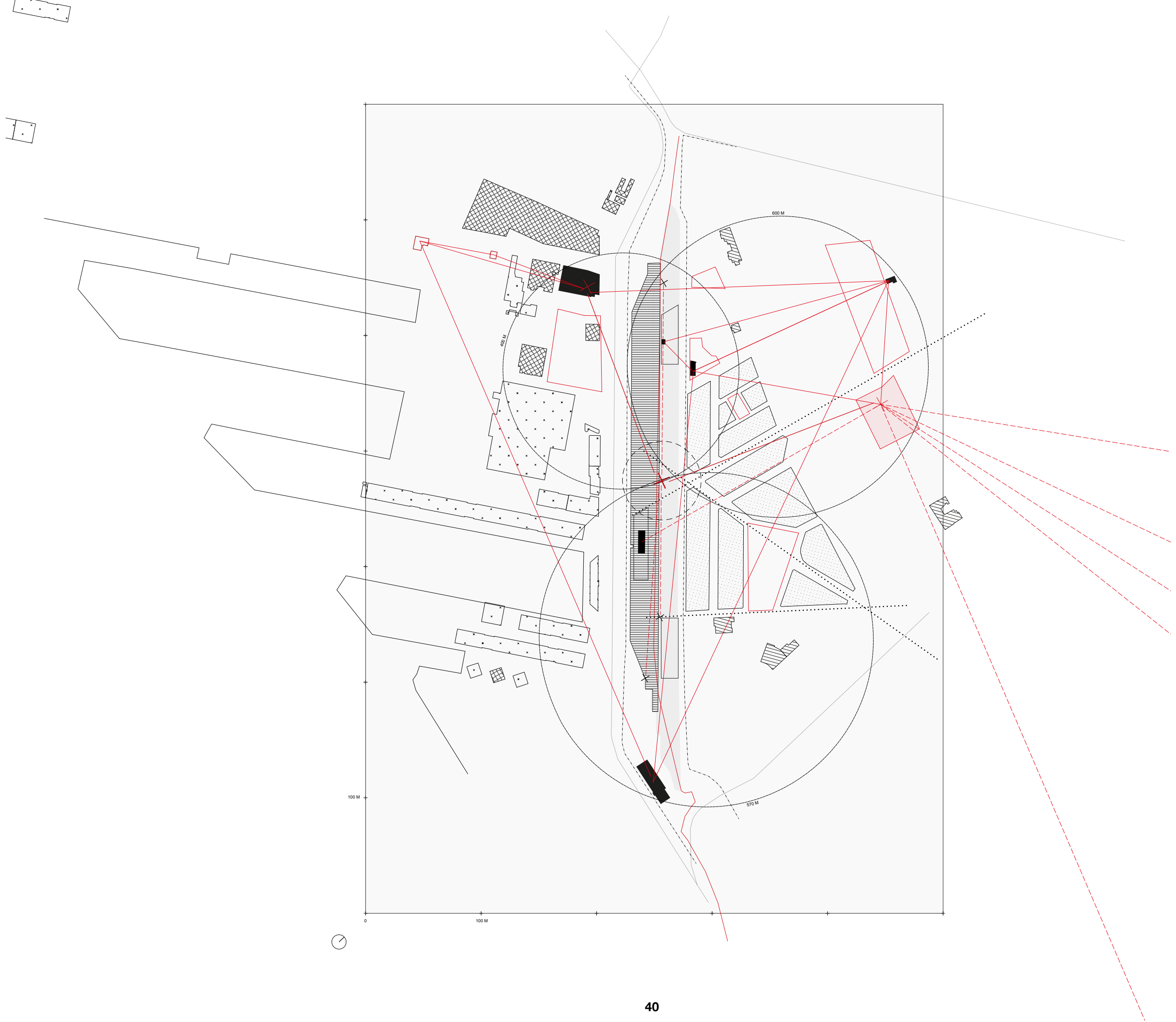












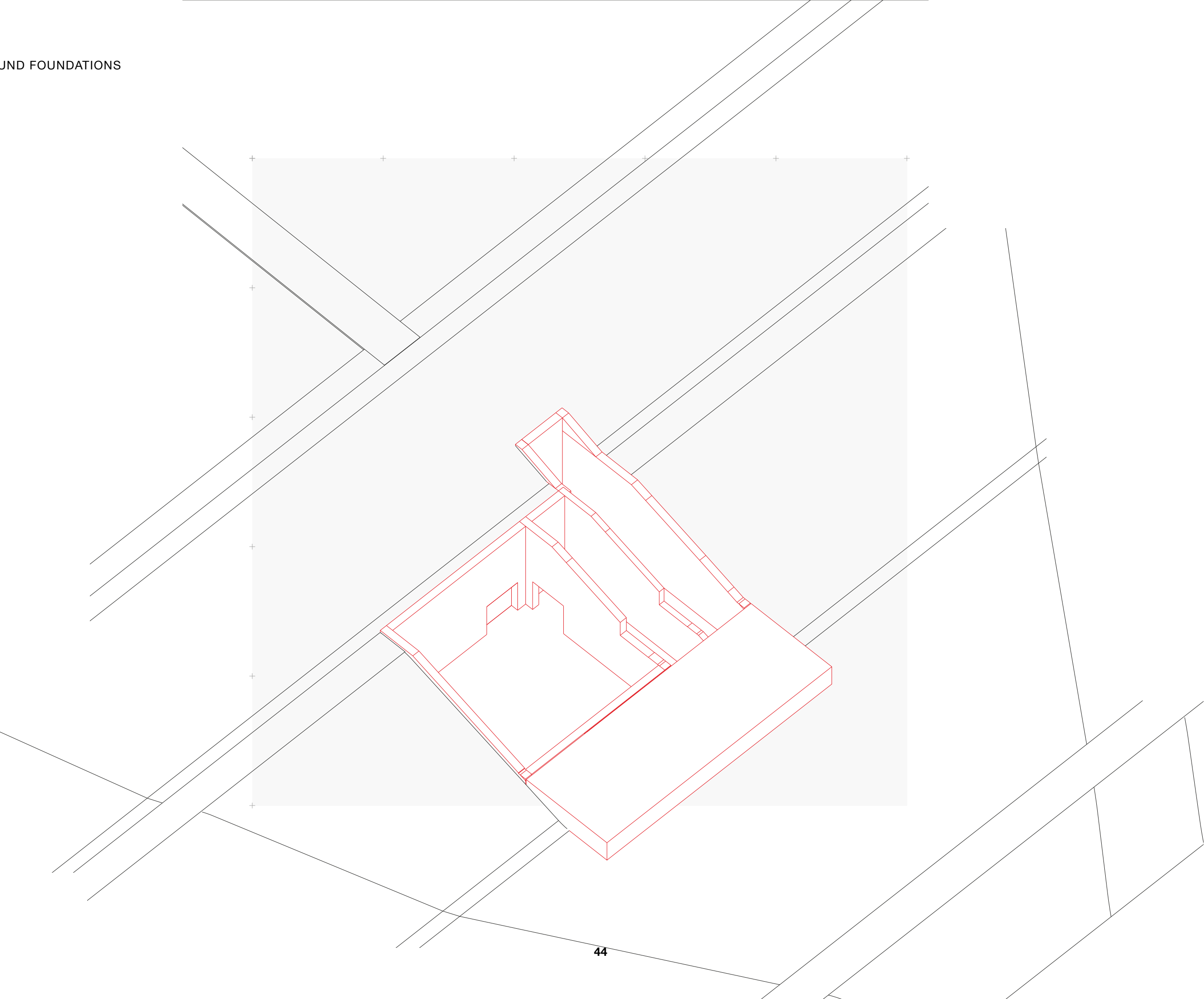
// SYSTEMIC SCENARIO



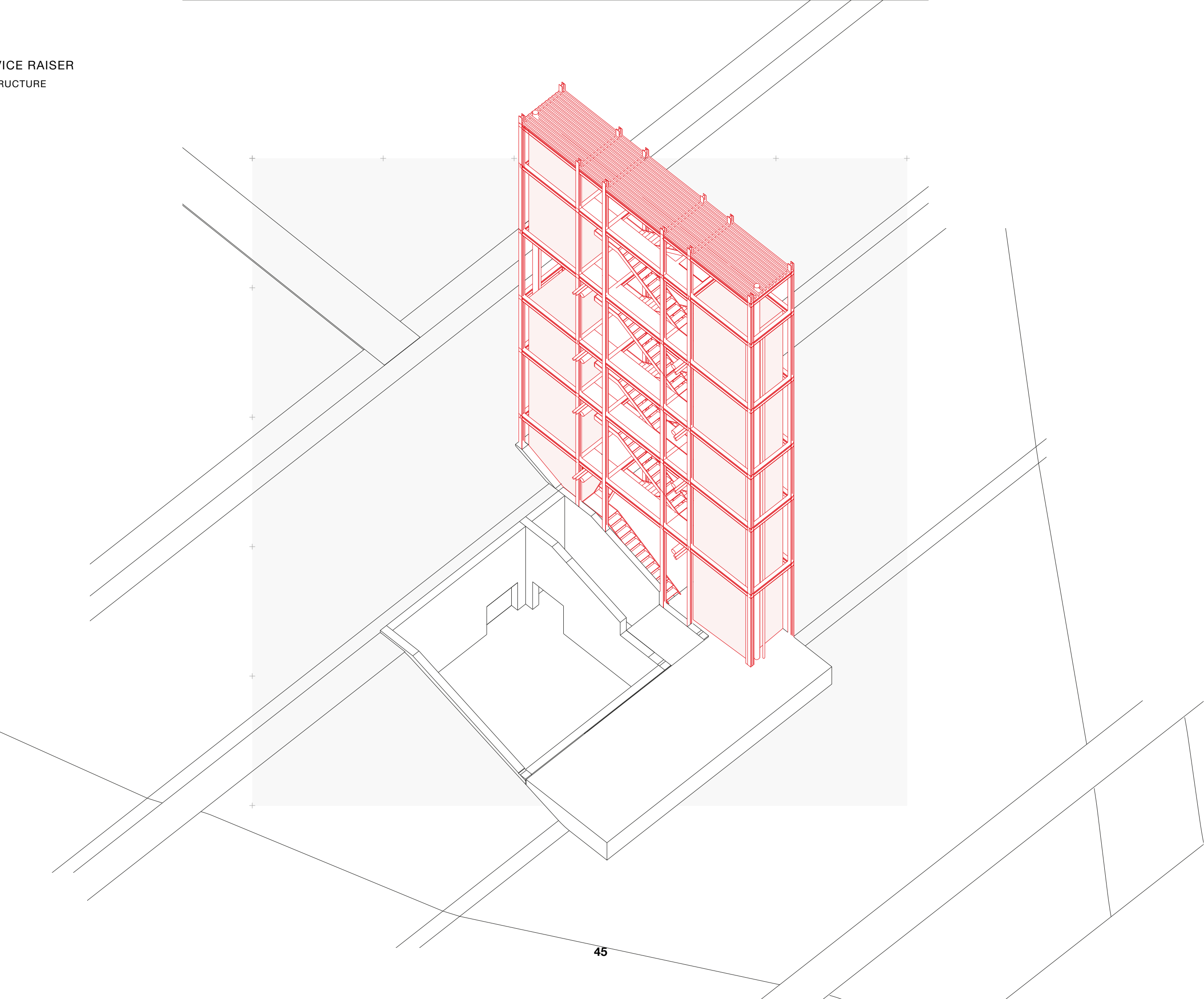


100 M

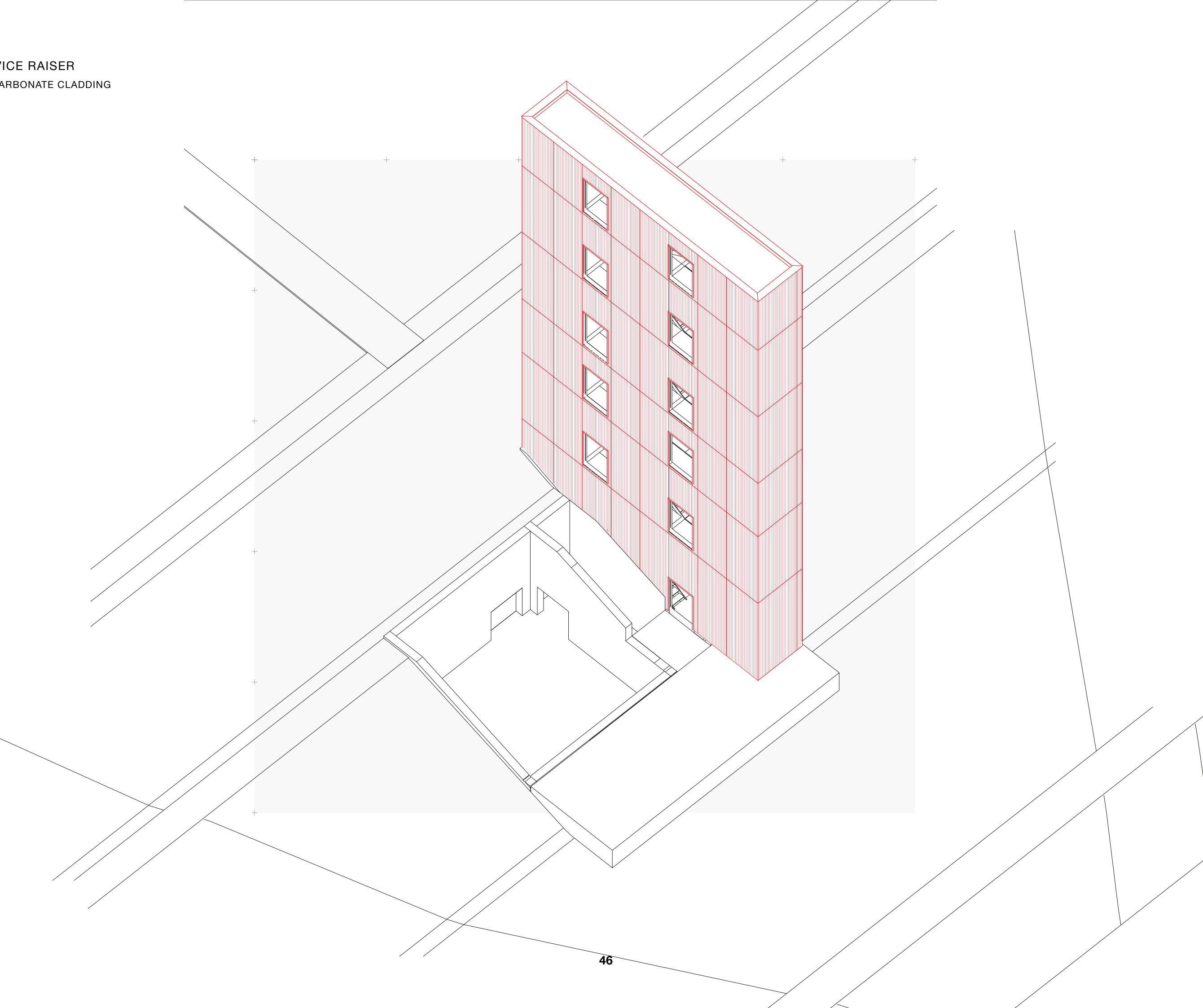
PHASE 1
TECHNICAL CONSTRUCTION



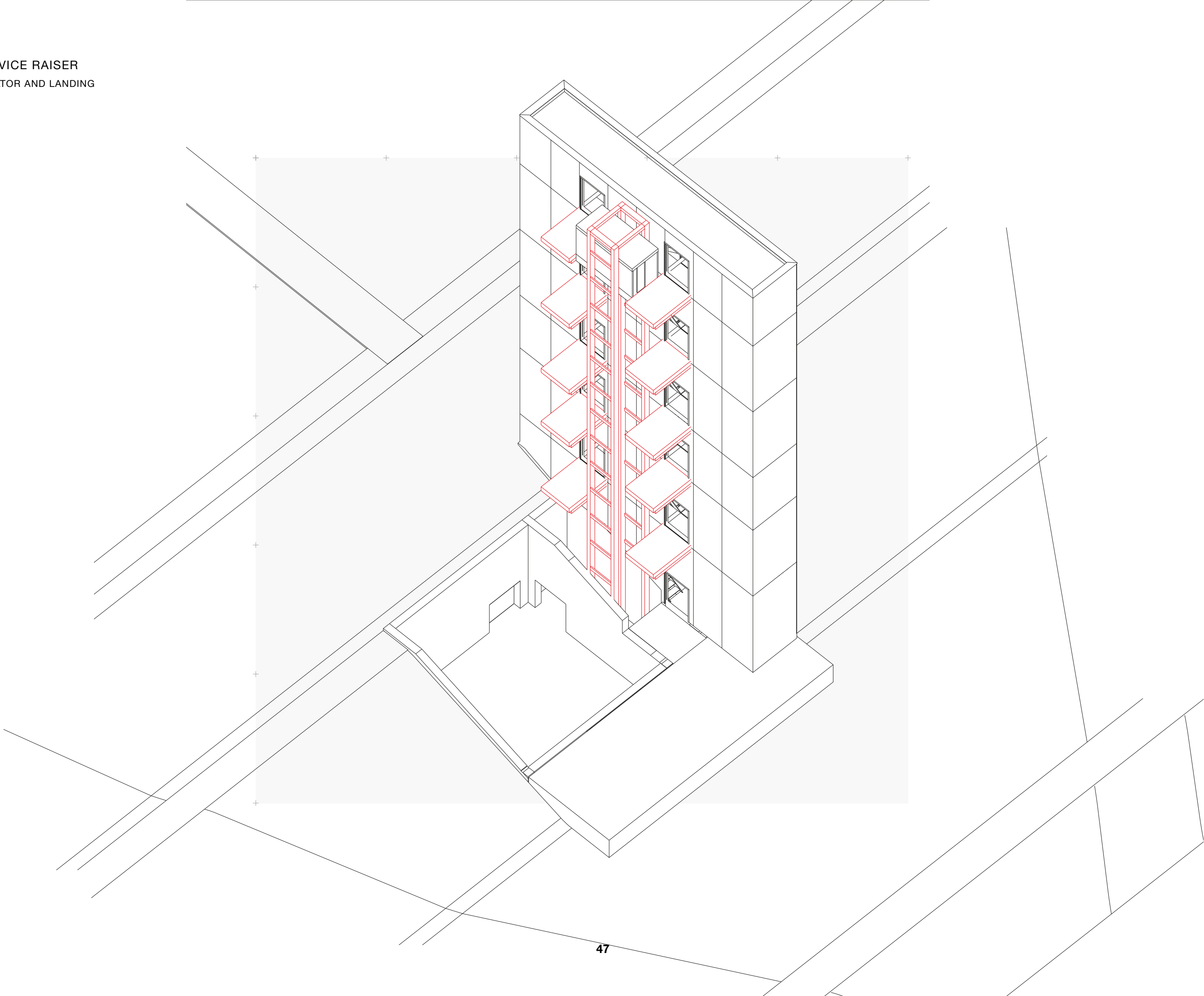
// SERVICE RAISER
+ IPE STRUCTURE



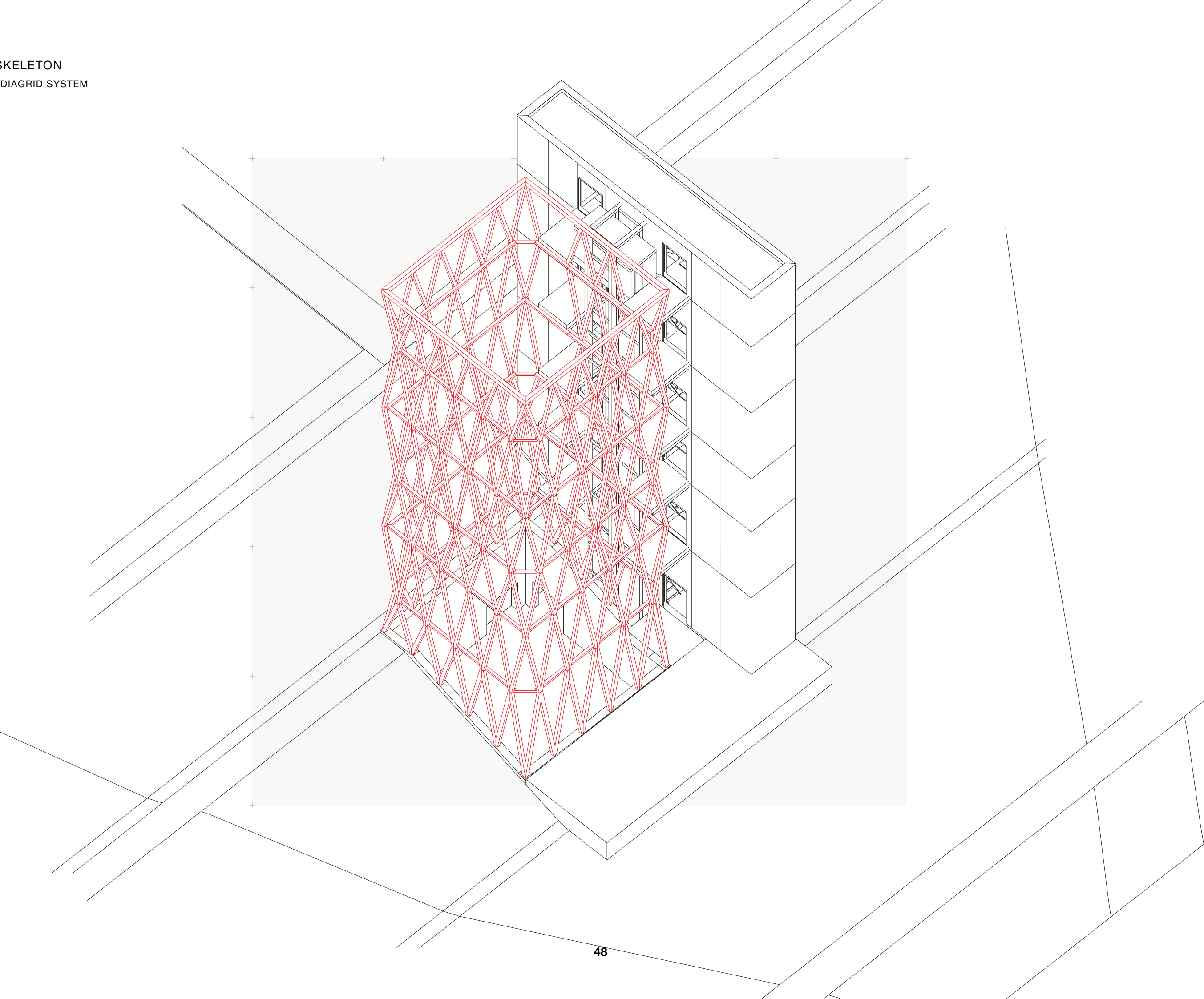
// SERVICE RAISER
+ POLYCARBONATE CLADDING



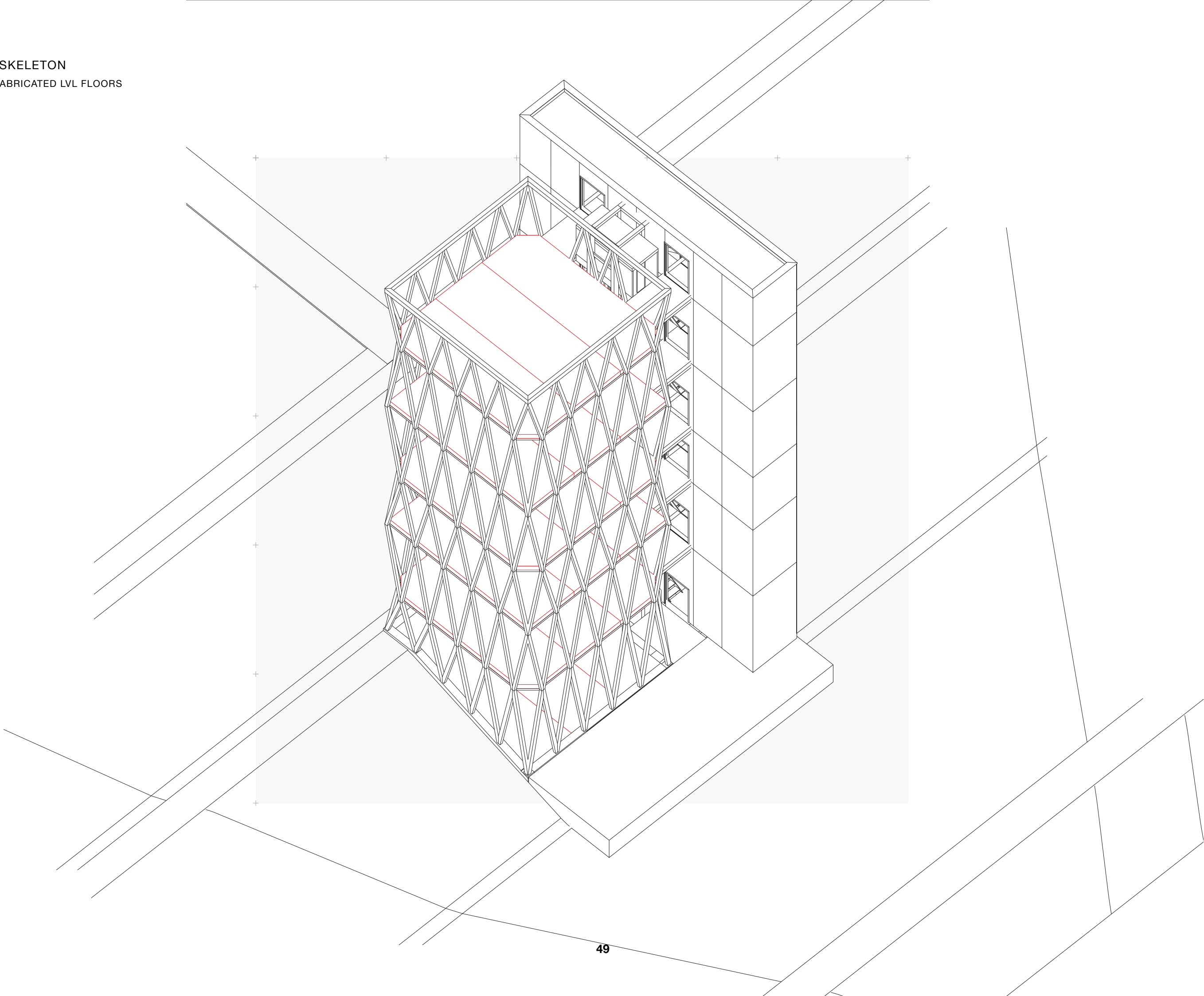
// SERVICE RAISER
+ ELEVATOR AND LANDING



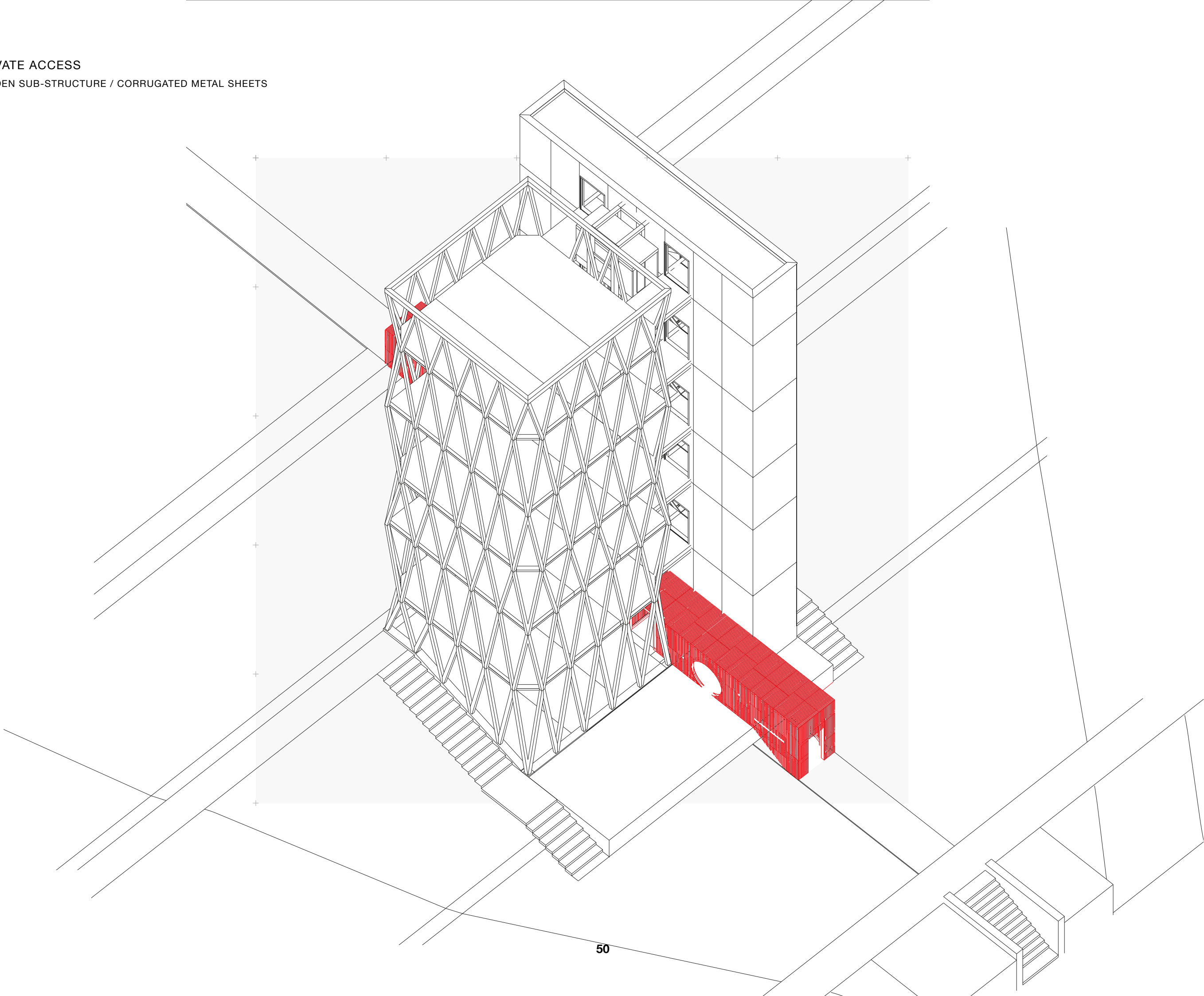
// EXOSKELETON
+ X-LAM DIAGRID SYSTEM



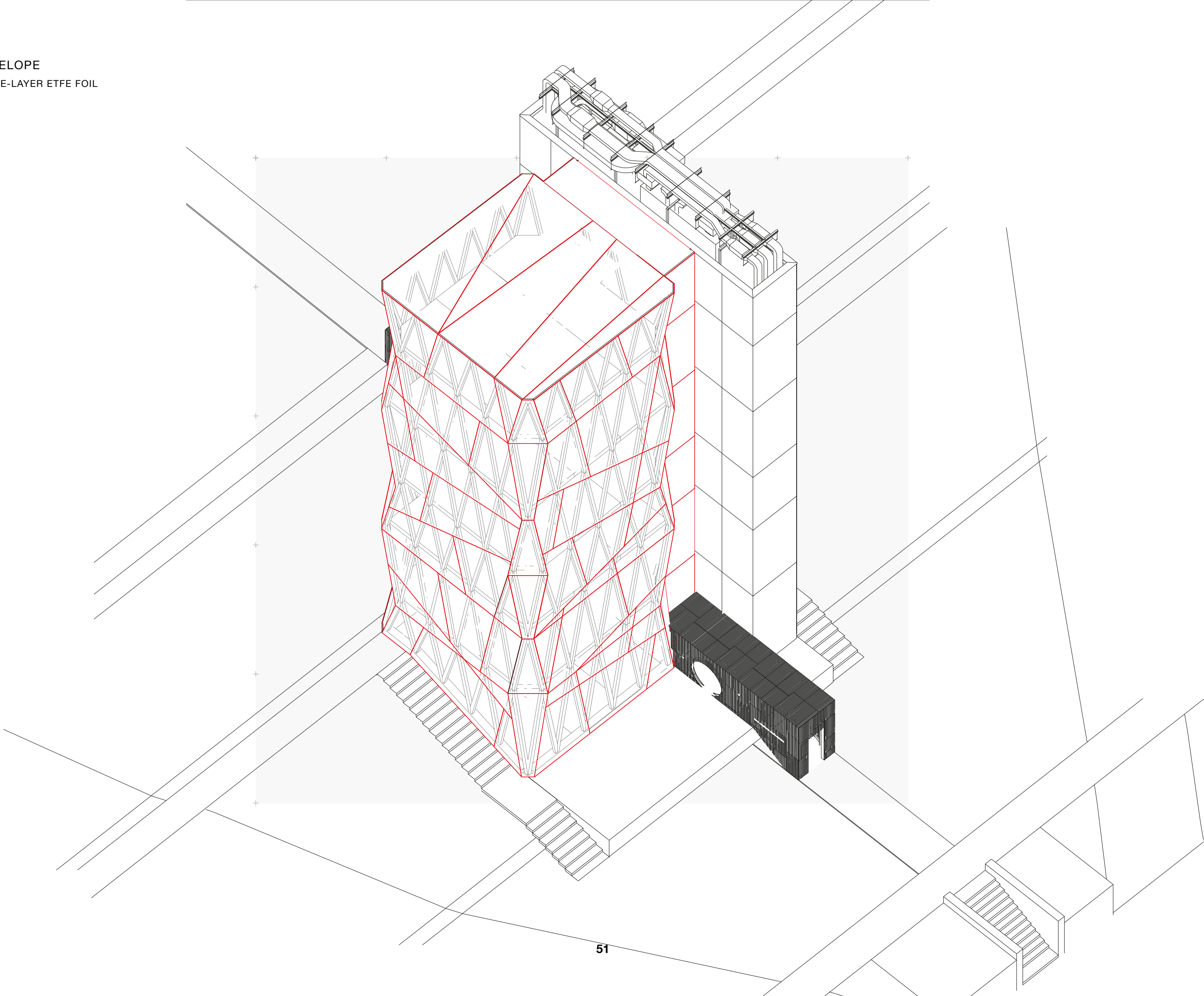
// EXOSKELETON
+ PRE-FABRICATED LVL FLOORS



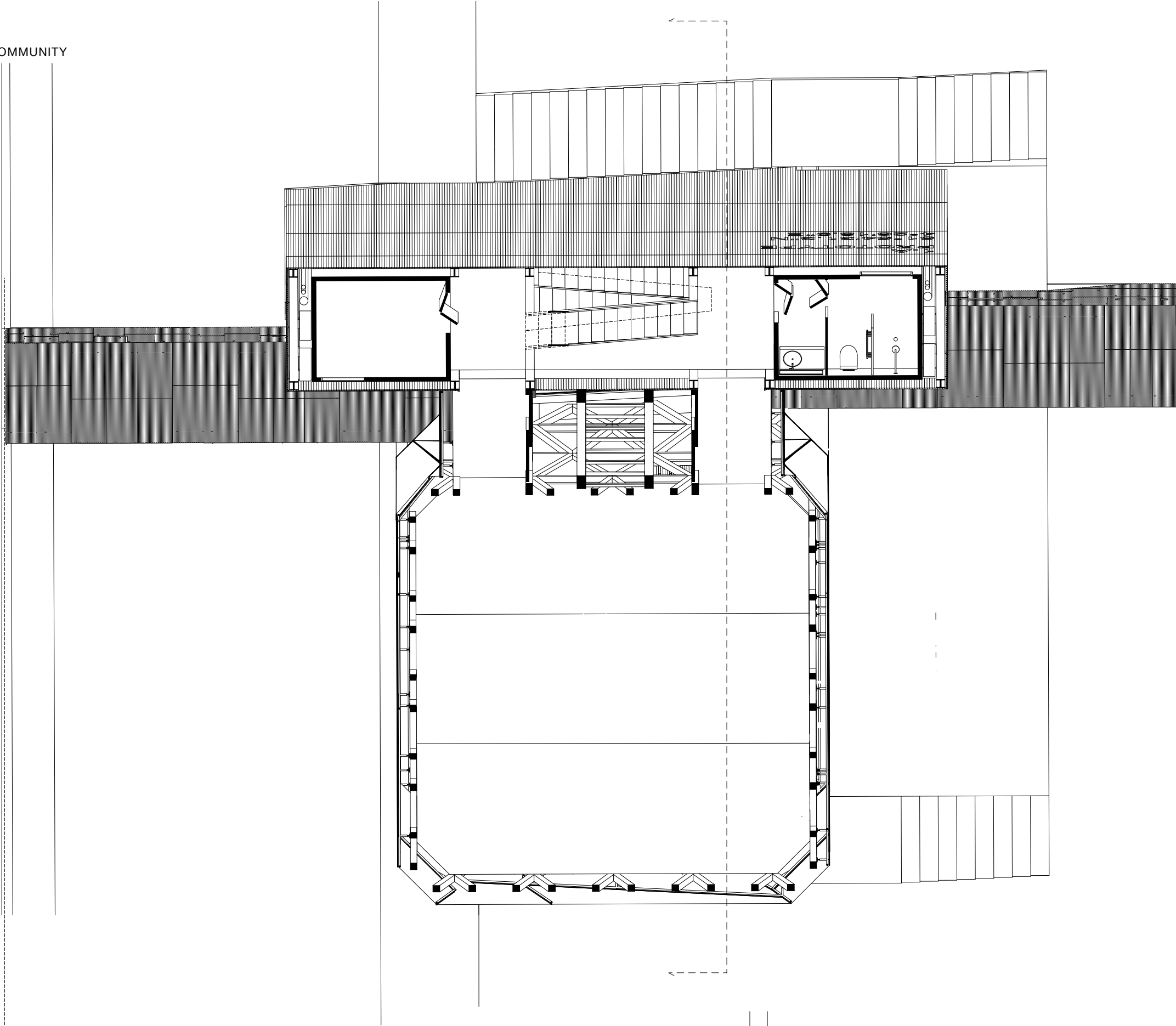
// PRIVATE ACCESS
+ WOODEN SUB-STRUCTURE / CORRUGATED METAL SHEETS



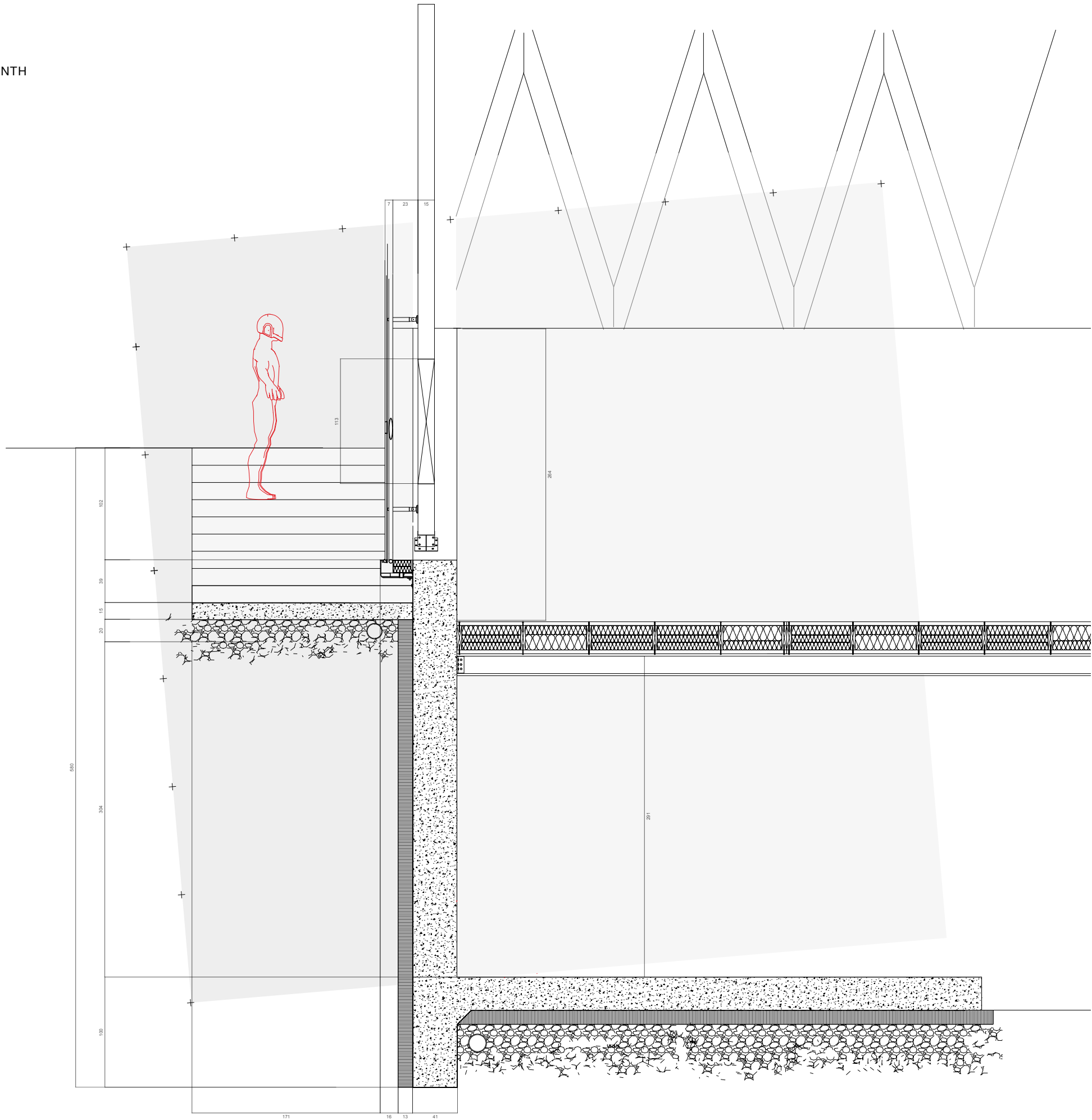
// ENVELOPE
+ SINGLE-LAYER ETFE FOIL



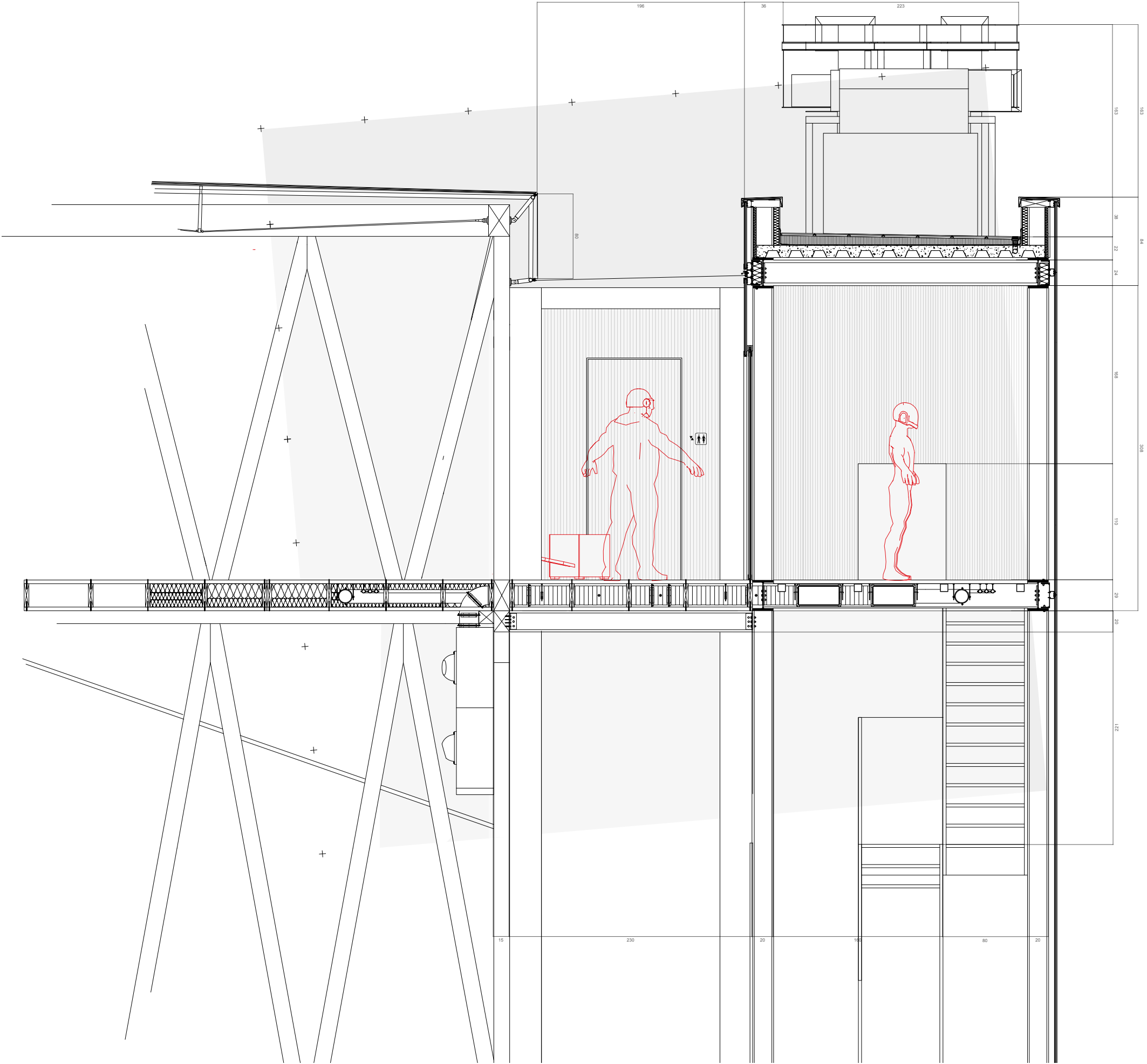
// EMPTY PLAN TYPE
+ AS DELIVERED TO THE COMMUNITY



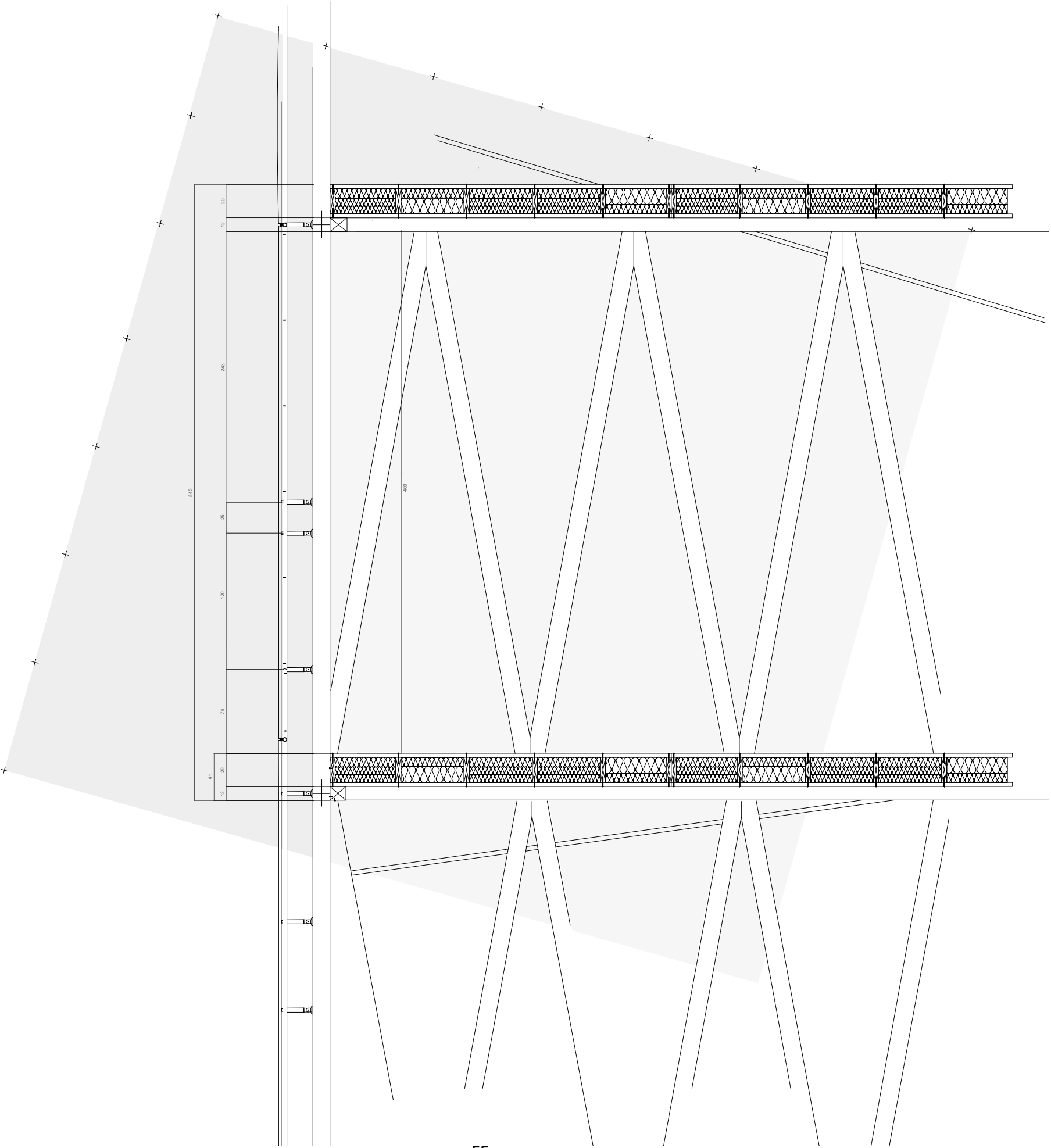
// 1:20 DETAIL
+ GROUND FOUNDATIONS / PUBLIC PLINTH



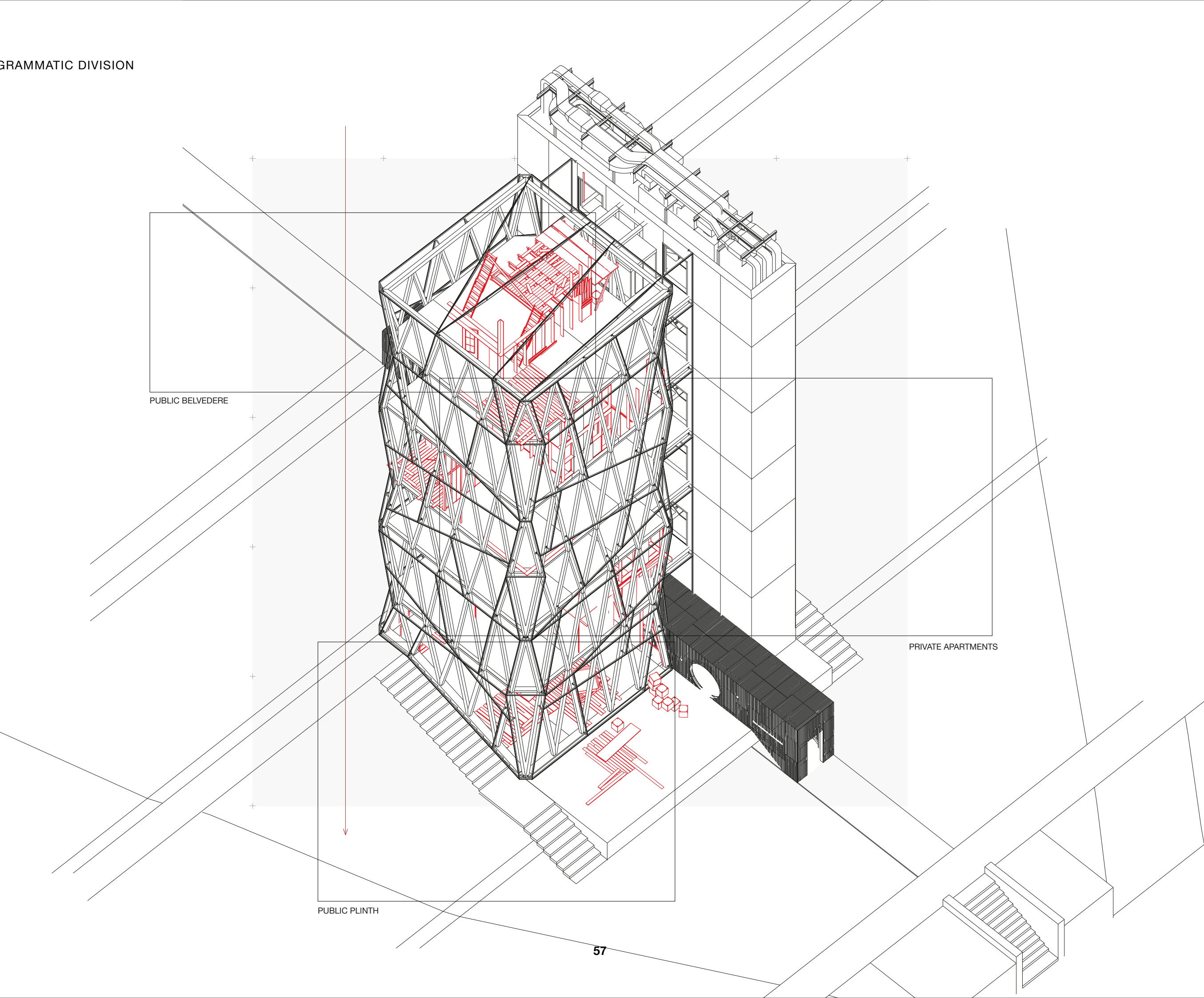
// 1:20 DETAIL
+ CROWN / SERVICE ROOF



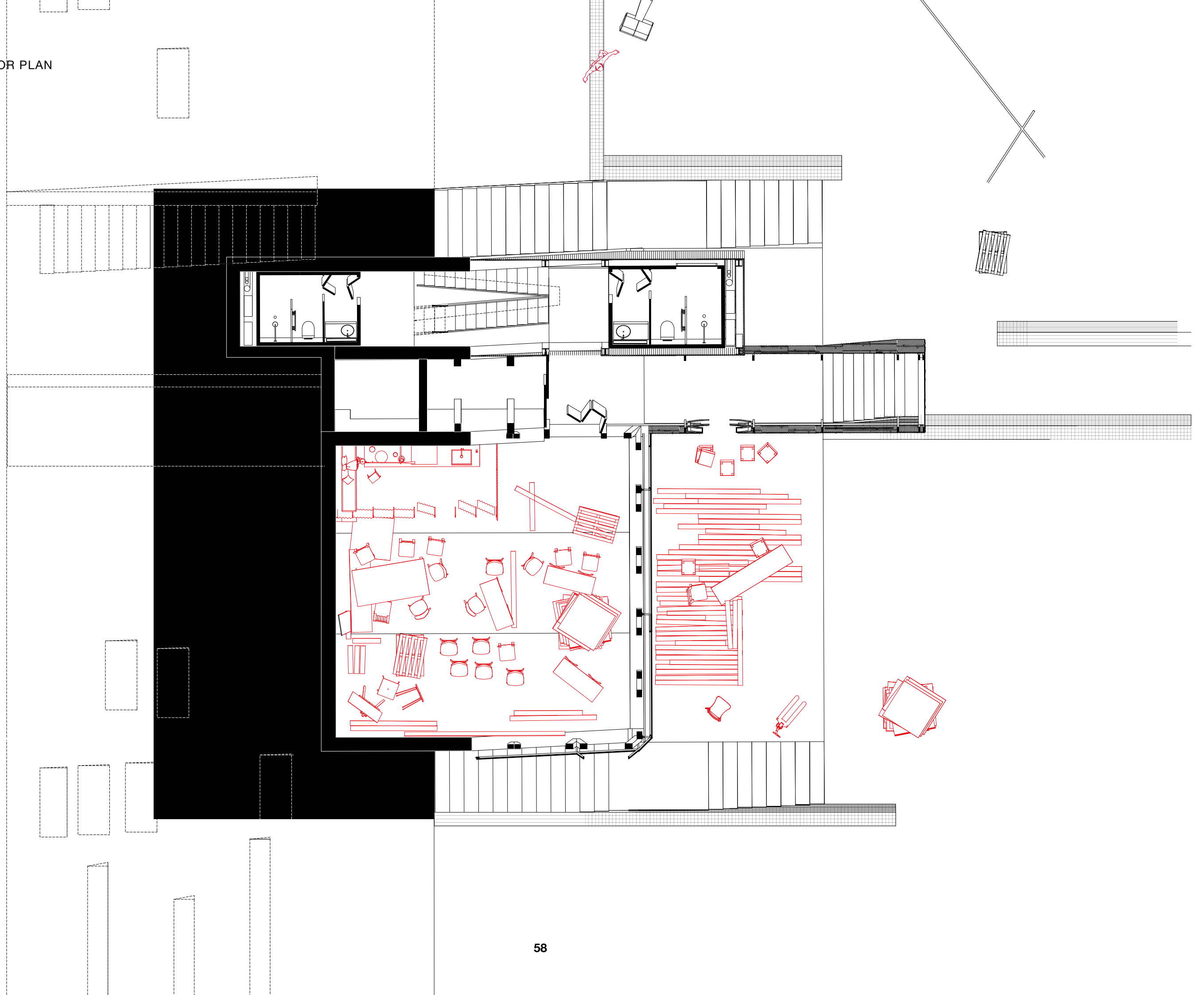
// 1:20 DETAIL
+ INTER-FLOORS



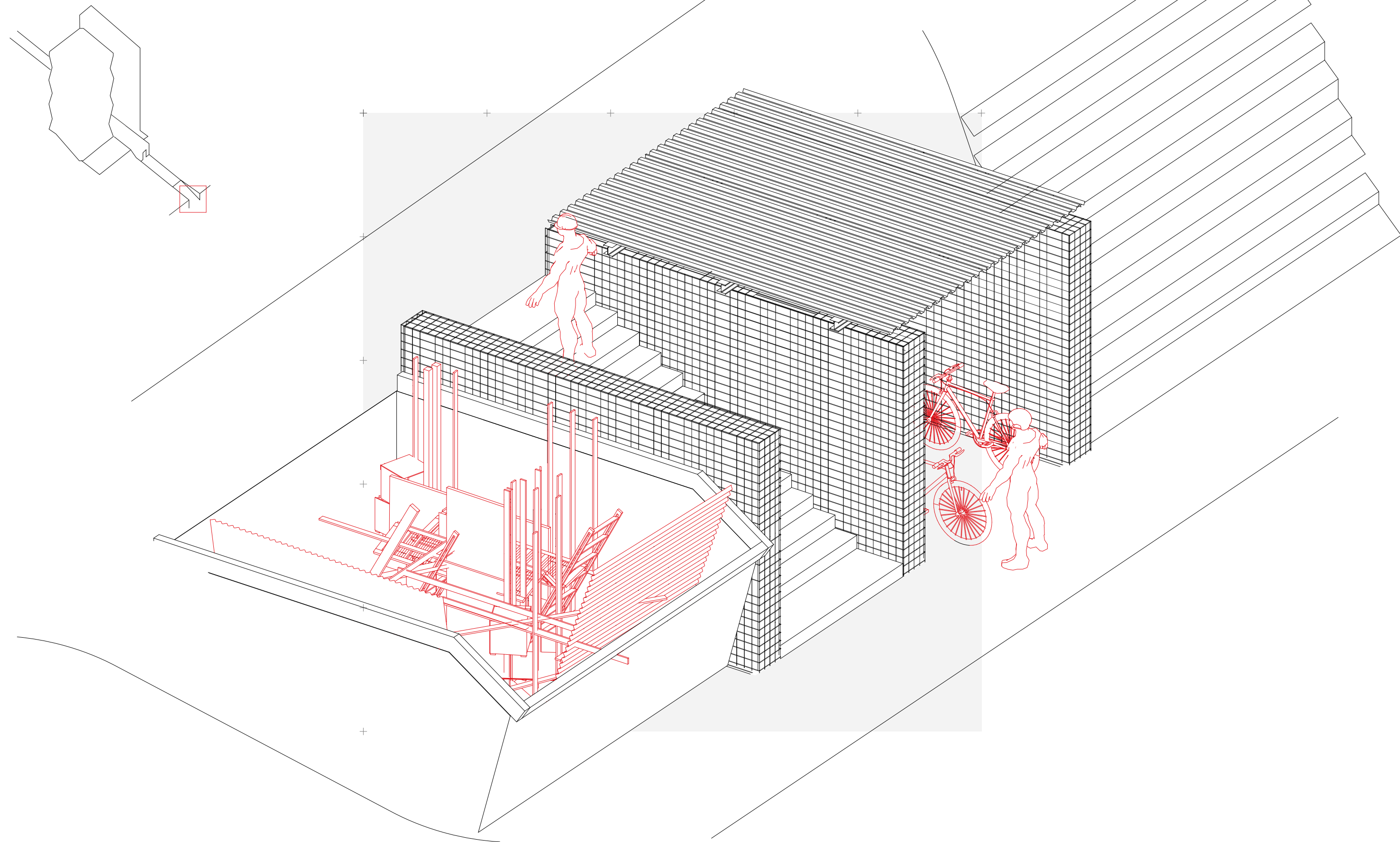
PHASE 3 + 4
COMMUNITY SETTling / MATERIAL COLLECTION

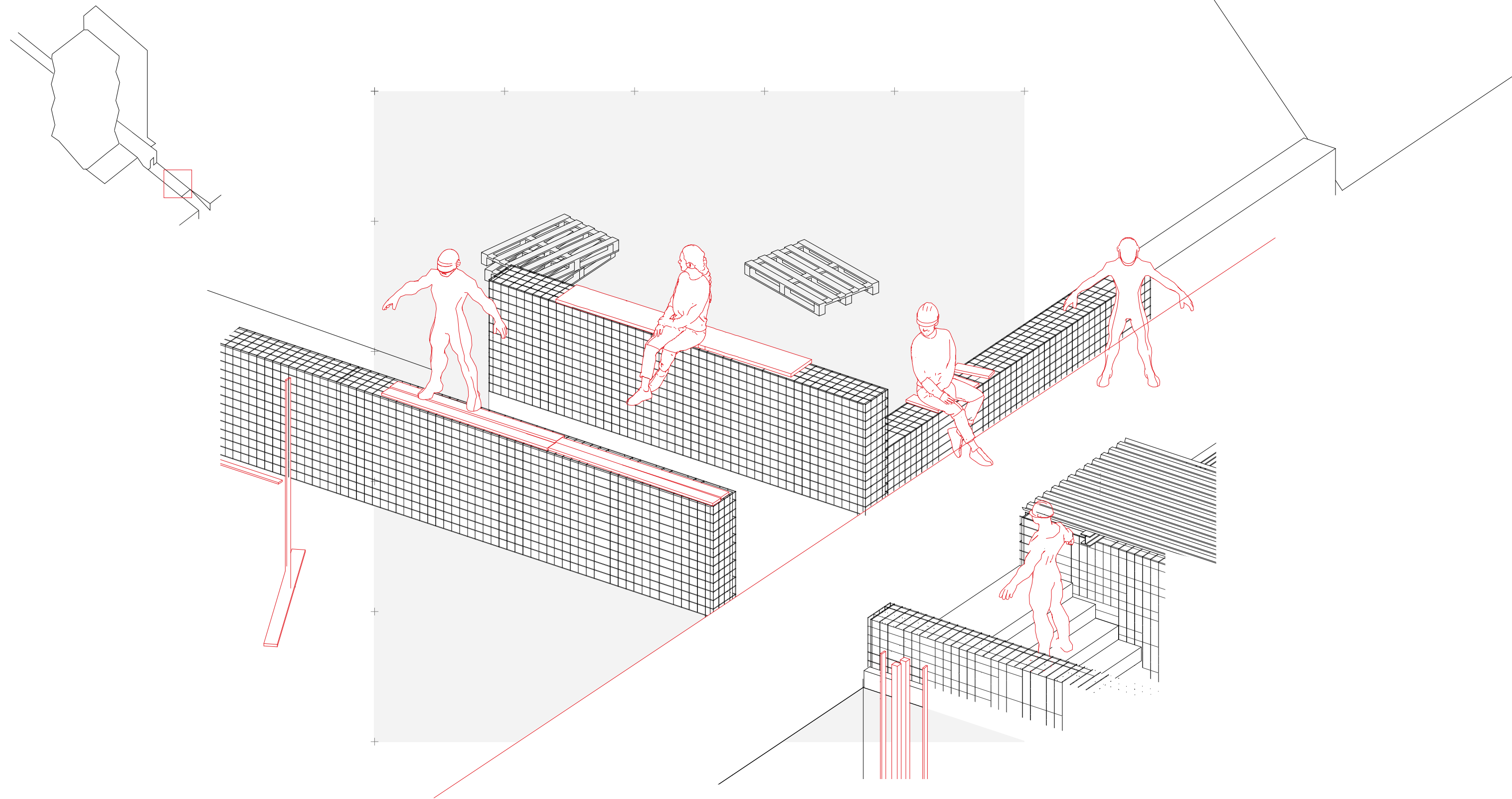


// GROUND FLOOR PLAN

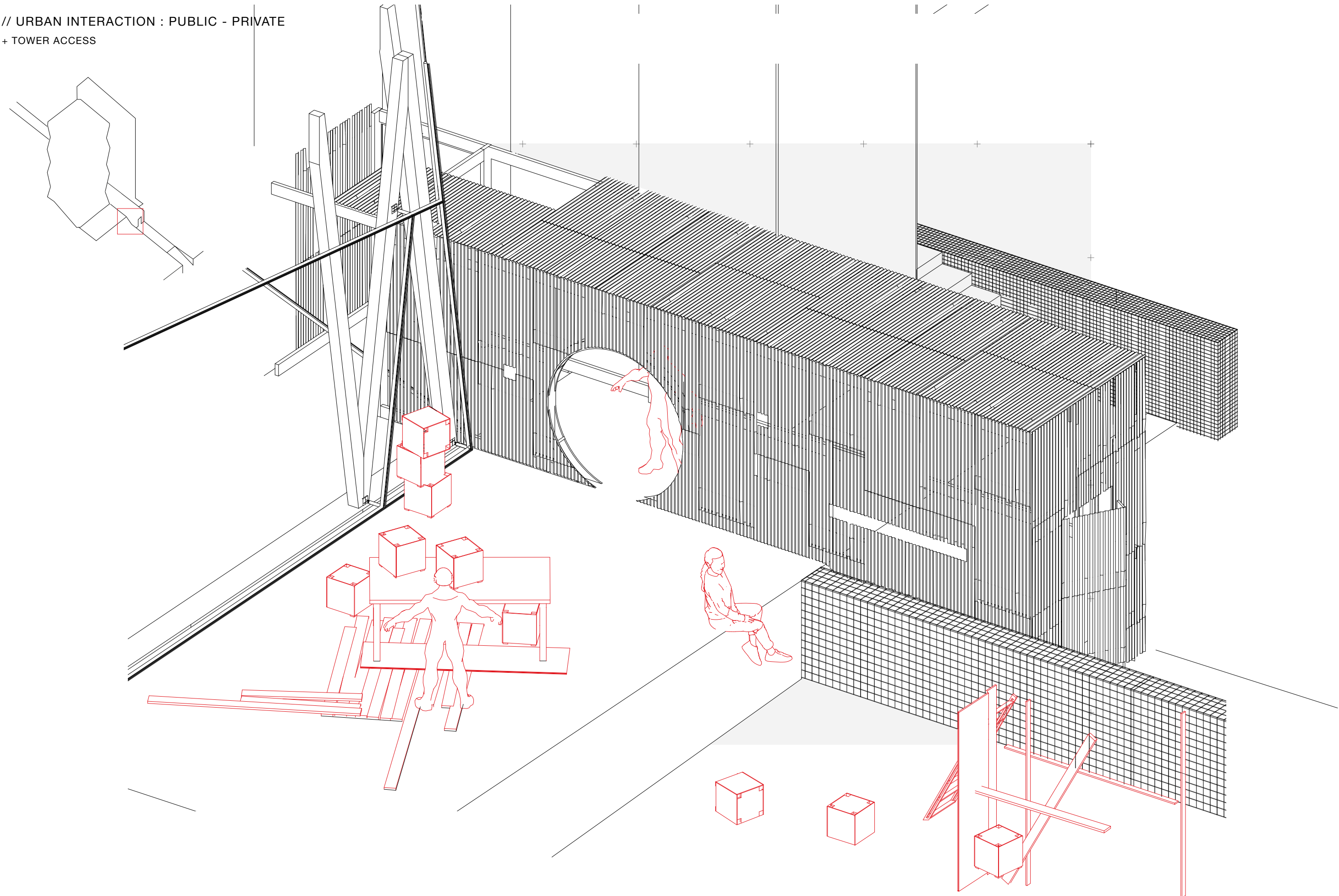


// URBAN INTERACTION : PUBLIC - PUBLIC
+ STREET ACCESS

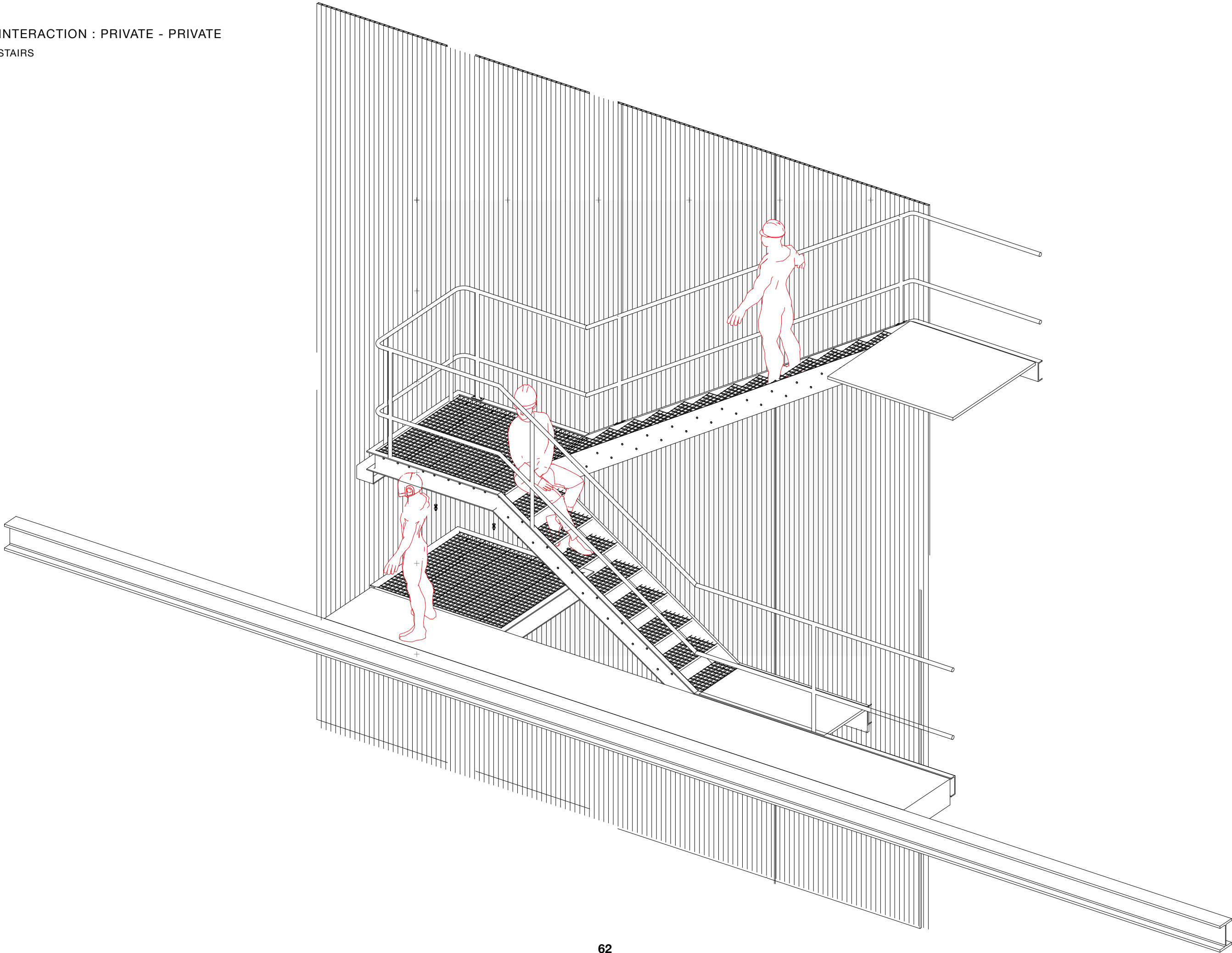




// URBAN INTERACTION : PUBLIC - PRIVATE
+ TOWER ACCESS



// INNER INTERACTION : PRIVATE - PRIVATE
+ SERVICE STAIRS



MATERIALITY



ELEMENTAL
SOCIAL HOUSING QUINTA MOROY
2008

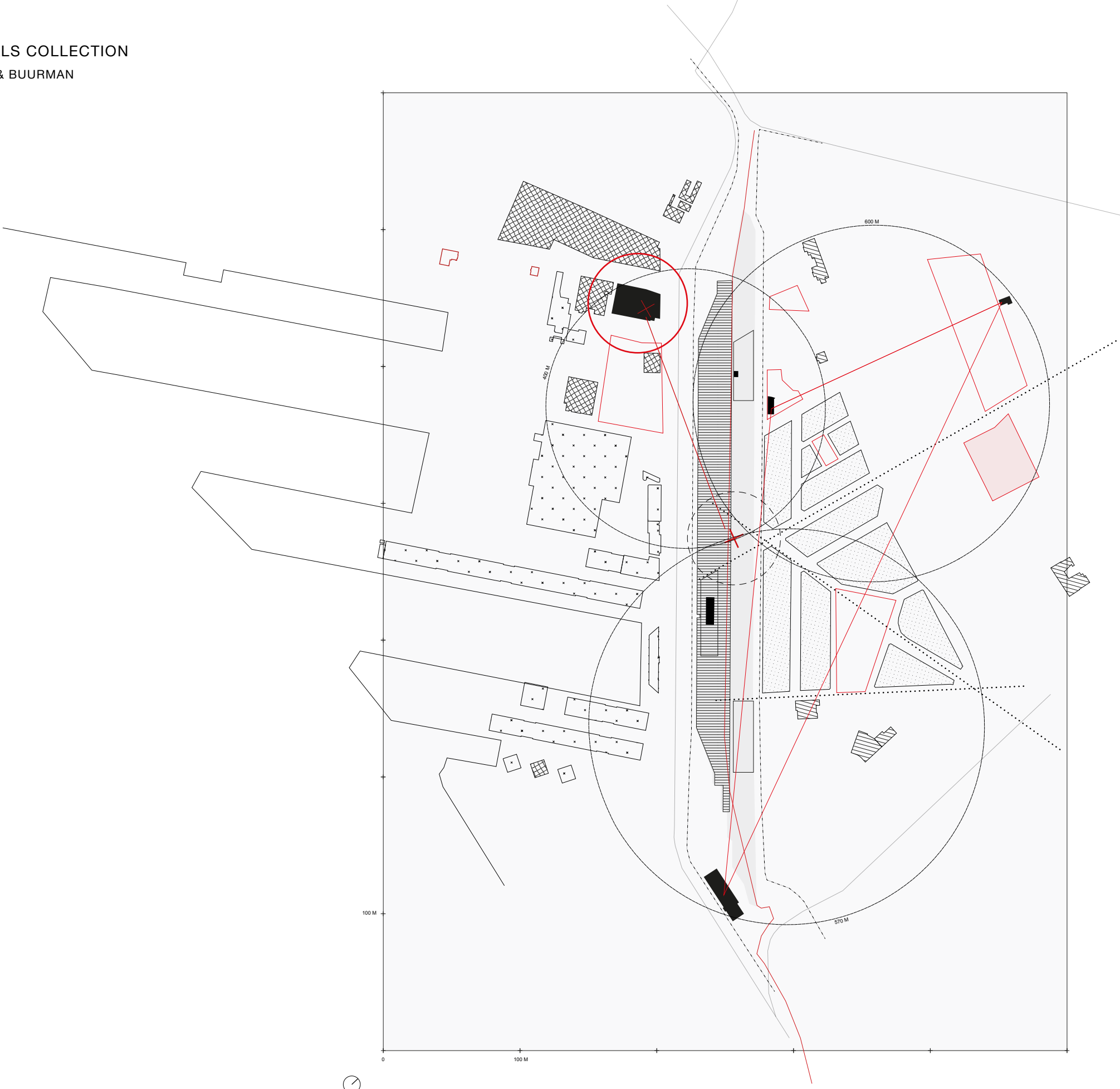


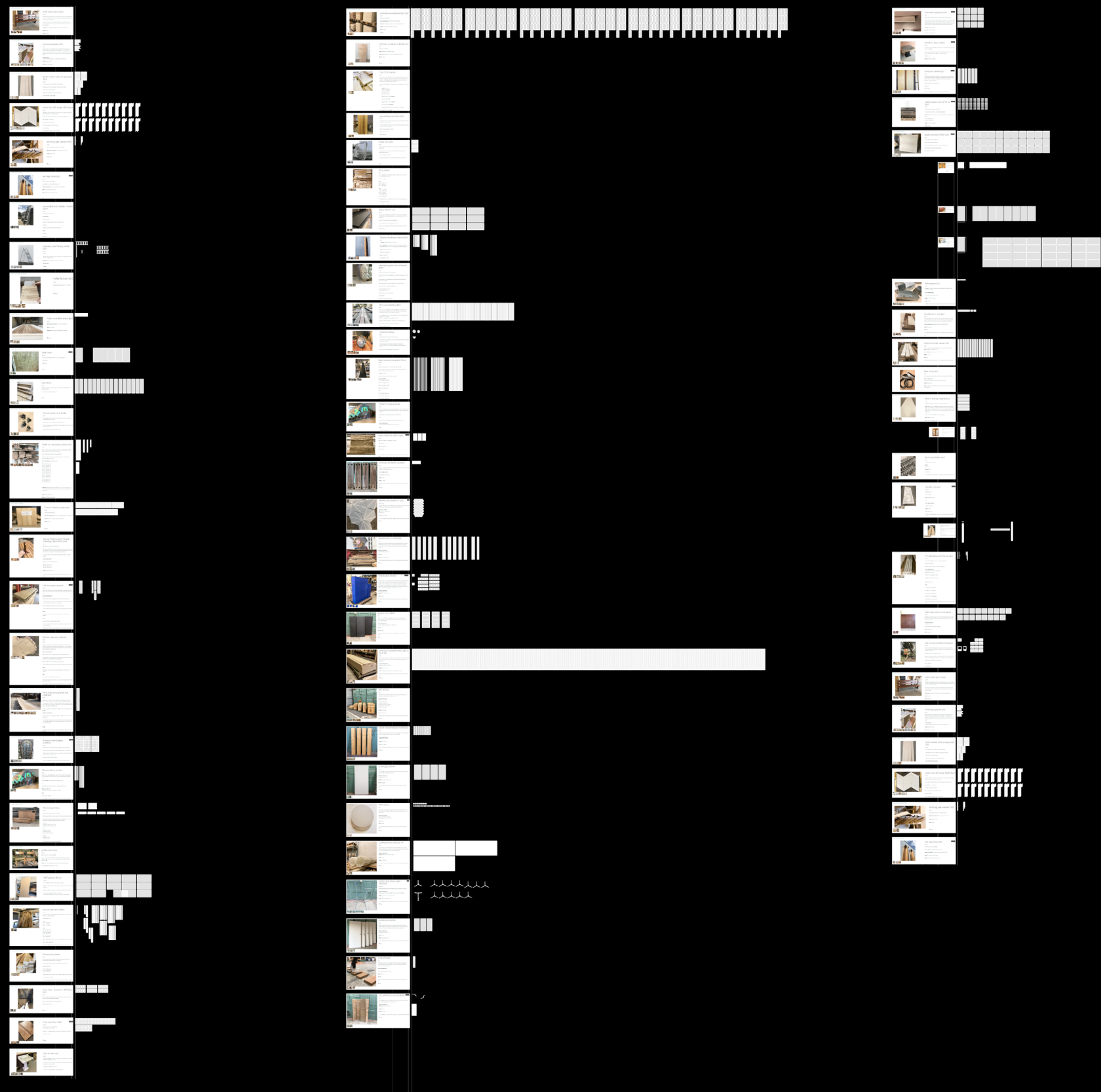
CARACAS
TORRE DAVID
2007-2015



NOTRE-DAME-DES-LANDES
ZONE A' DEFENDRE
2009-

// MATERIALS COLLECTION
+ BUURMAN & BUURMAN





[← BACK TO NOW IN THE STORE](#)



Old sports floor (pcs)

SOLD OUT

€35.00

Old sports floor - oak slat LAST PIECES

The sports floor is constructed as parquet in oak with solid varnish (2 components). The composite layers are glued crosswise, which provides extra strength. The sports floor also has damping rubbers at the bottom to absorb vibrations, so that the floor can be placed floating on the surface.

The plates hook into each other like tongue and groove, not glued, so you can also use them as separate slats. Or you can seamlessly connect them to larger pieces for a large table top, for example.

is sold per piece, roughly sawn into parts of approximately 1 to 1 m

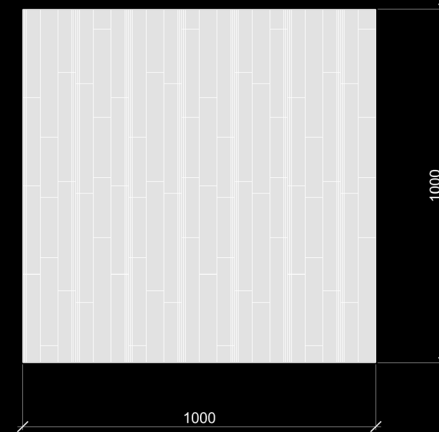
can be used as a floor, table top, wall cladding or decor piece.

limited edition

Stock and price*:
7 pieces | 100 x 100 x 2.2 cm

Origin: Neighborhood organization

Price: € 35,-



[← BACK TO NOW IN THE STORE](#)



Whole sheet of underlayment plywood 18mm (pc)

SOLD OUT

€30.00

Underlayment 2440*1220*18 mm

Underlayment consists of several layers of cross-glued wood veneer. So it is super strong, and also super flat! So good to process. This sheet material is therefore used in almost all (wood frame) houses in America🇺🇸.

Besides being used as a construction, it is also increasingly being kept in view👁️. It has a tough look. We love that at Buurman! 🍷

There is a lot of underlayment in the Neighbor shop. This comes from the port of Rotterdam, where @innocentdrinksnl's juice factory is being built.

stock: last pieces!

application: cladding, furnishing, bottom plate, walls timber frame construction

origin: construction company

price: 30€/piece



[← BACK TO NOW IN THE STORE](#)



Solid wood doors with glass (pcs)

€30.00

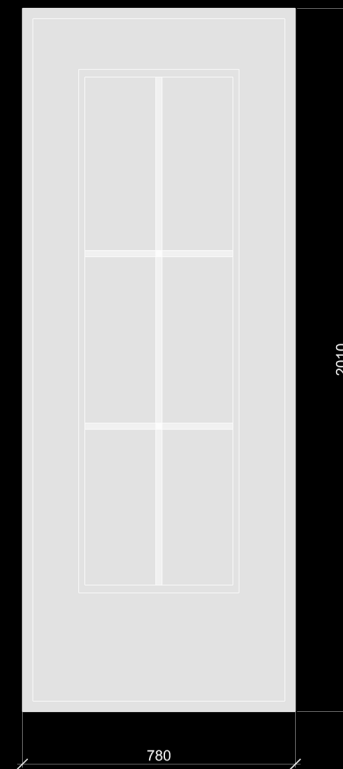
Beautiful solid wooden doors with glass! Perfect for a home renovation.

Stock and dimensions*: 2 pieces of 201 x 78 x 4 cm

Origin: Private

Price: € 30 each

** This is the stock at the time of entry. Call us if you want to know the current stock.*



[← BACK TO NOW IN THE STORE](#)



Betonspan 18mm (m2)

SOLD OUT

€7.00

UNILIN Concrete span 18mm thickness

Concrete span is widely used in construction to make concrete formwork. Concrete span is actually a chipboard with a hard water-repellent layer over it. You can also use it for completely different purposes. If you use it in damp areas, you can make the sides waterproof with plywood edge coating.

Stock and dimensions*: 10 pieces | 250 x 125 cm.

Origin: Shipyard Antwerp

Price: € 7/ m2



← BACK TO NOW IN THE STORE



I-ligger in hout (lm)

€4.00

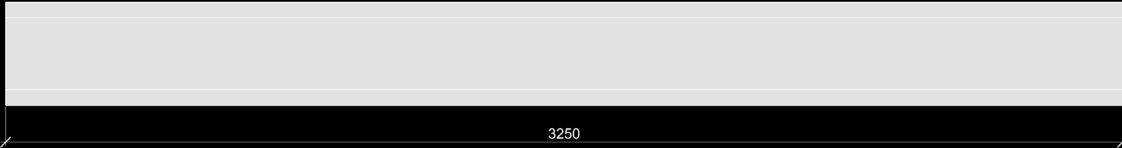
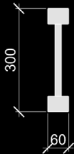
These unused wooden beams or I-beams are suitable for constructive applications. We have 3 pieces with a length of 325cm and a height of 30cm (width 6cm) and 1 beam with a width of 9cm.

Stock and dimensions*: 3 pieces of 325 x 30 x 6 cm and 1 piece of 325 x 30 x 9 cm

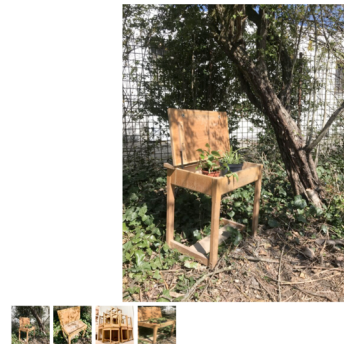
Origin: Private

Price: € 4 per meter. (13€ each)

** This is the stock at the time of entry. Call us if you want to know the current stock.*



← BACK TO NOW IN THE STORE



old school workbenches (pcs)

€25.00

These nice old school workbenches came up after cleaning the basement of a primary school during the lockdown period. Beautiful solid wood benches. Top cover needs to be replaced.

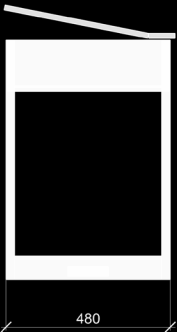
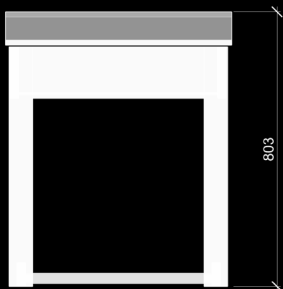
Dimensions: 64.5 cm on 48 and 70 cm high.

Application: ideal base to pimp up as a children's desk, plant or herb table, game table,... or changing table. Be sure to send us a picture of your upcycled result ;-)

origin: Franciscus primary school in Borgerhout

stock : 12 pieces

price: 25€ /piece



[← BACK TO NOW IN THE STORE](#)



white tiles 30° angle NEW (box)

€35.00

White design tiles with angles of 30°. Handmade in Italy. Different laying patterns possible. Brand new tiles from an overstock.

As wall tiles in bathroom, kitchen or you can also cover a table top with it

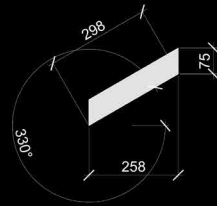
size: 6.5*26 cm, +- 1 m2 / box

merk: Senio chevron, type A and B

Origin: Van Eccelpoel fresh market Herentals

stock: +- 20 boxes

price : 35€/ box (=54 pieces in 1 box or 0.92m2)



Glass tiles (lot)

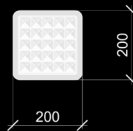
€45.00

After the demolition of a city terrace, we received a lot of beautiful glass tiles in the materials hall.

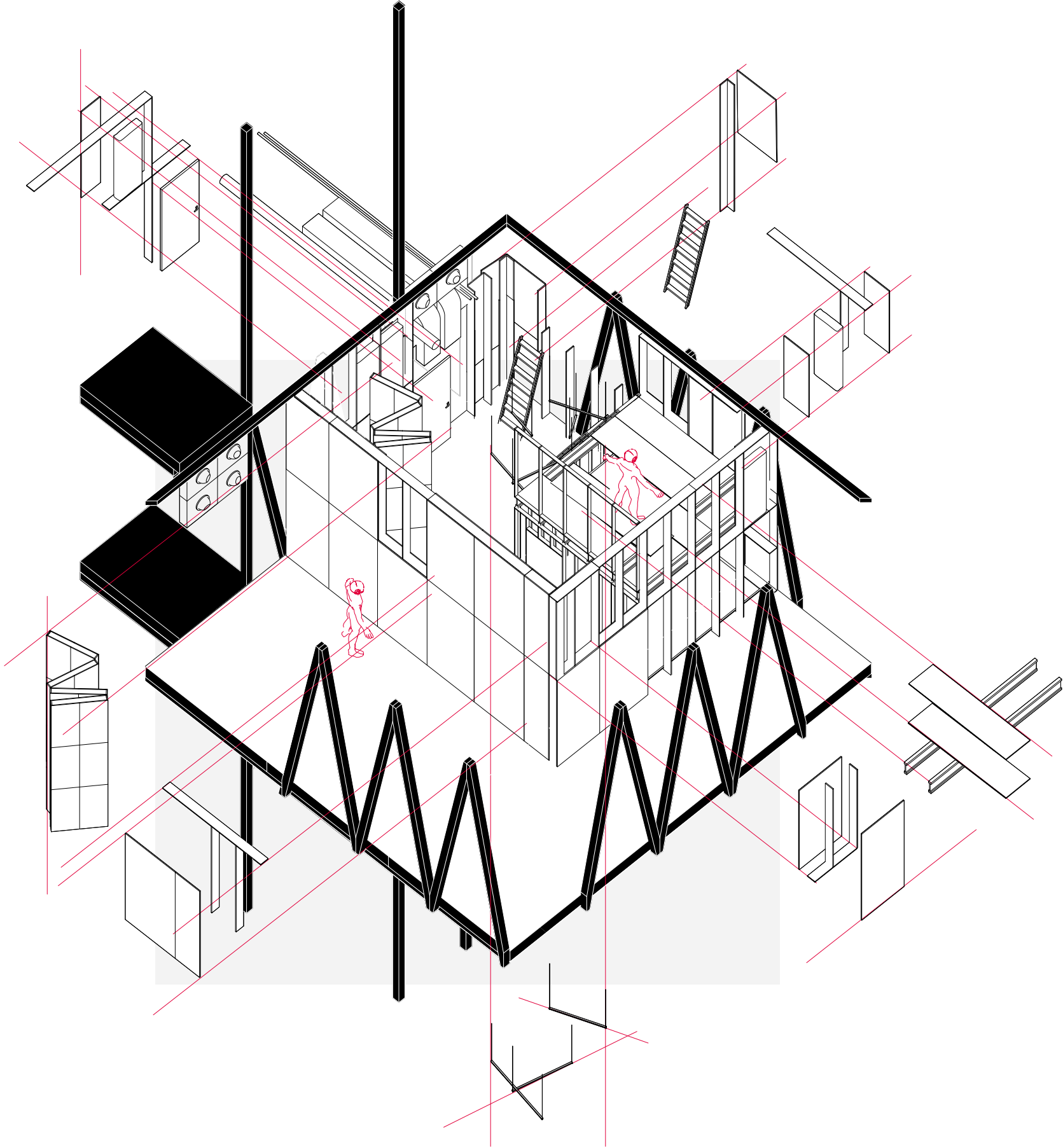
These are ready for a new adventure, after a little elbow grease, they will be completely spick and span!

The tiles measure 200 x 200 x 25.

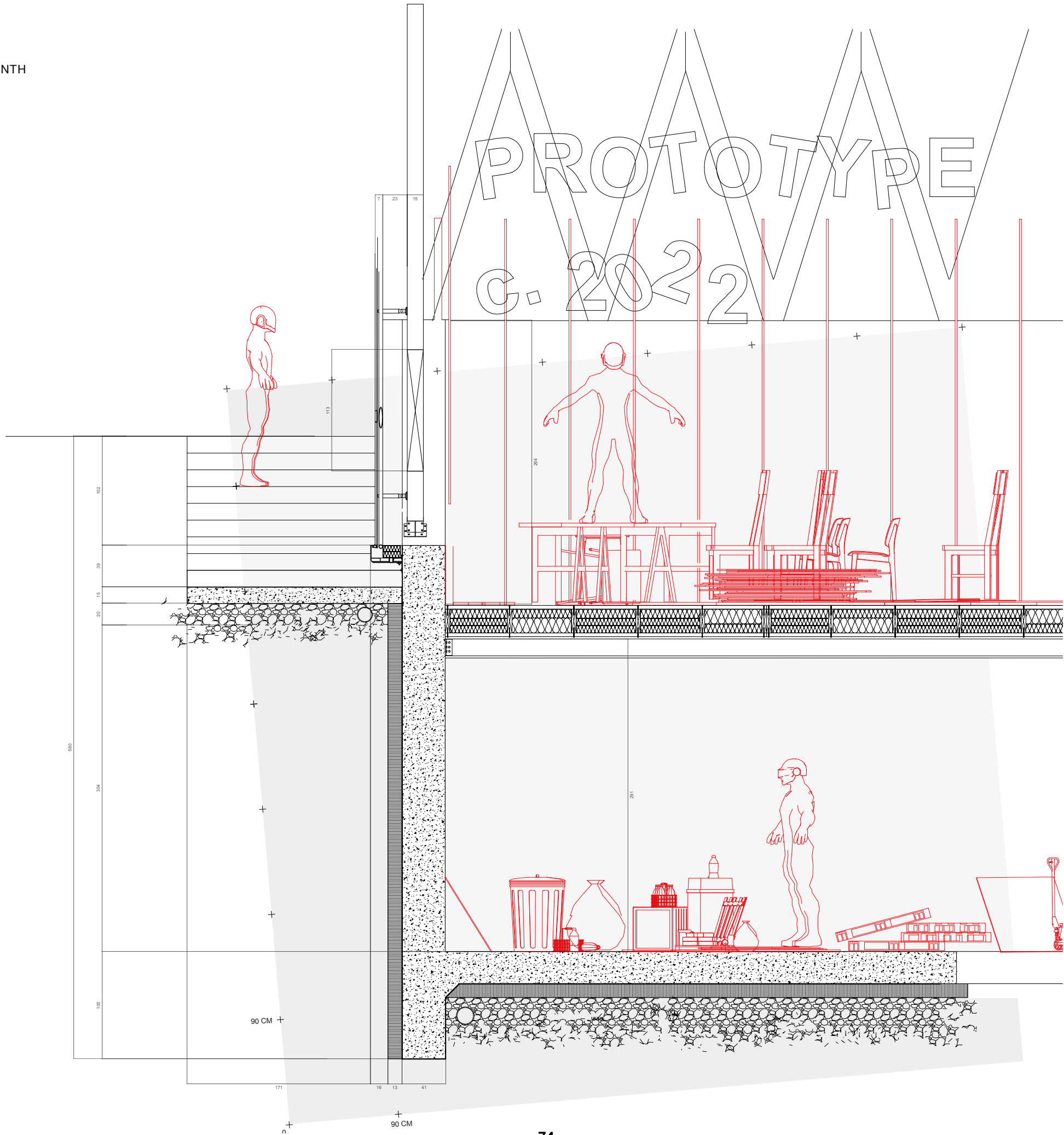
In total there are 45 tiles that can go together for the lottery price of 45 euros!



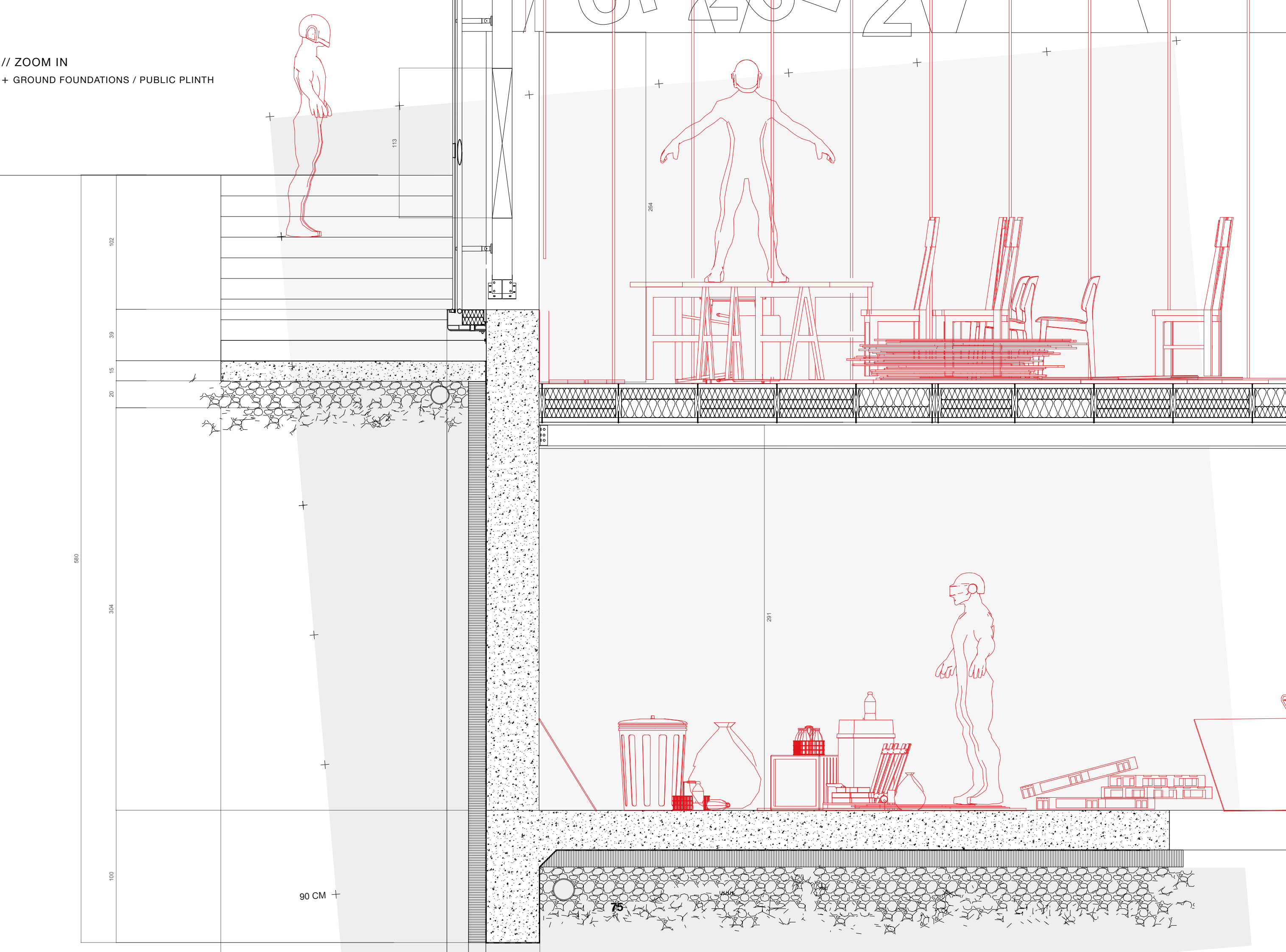
Share



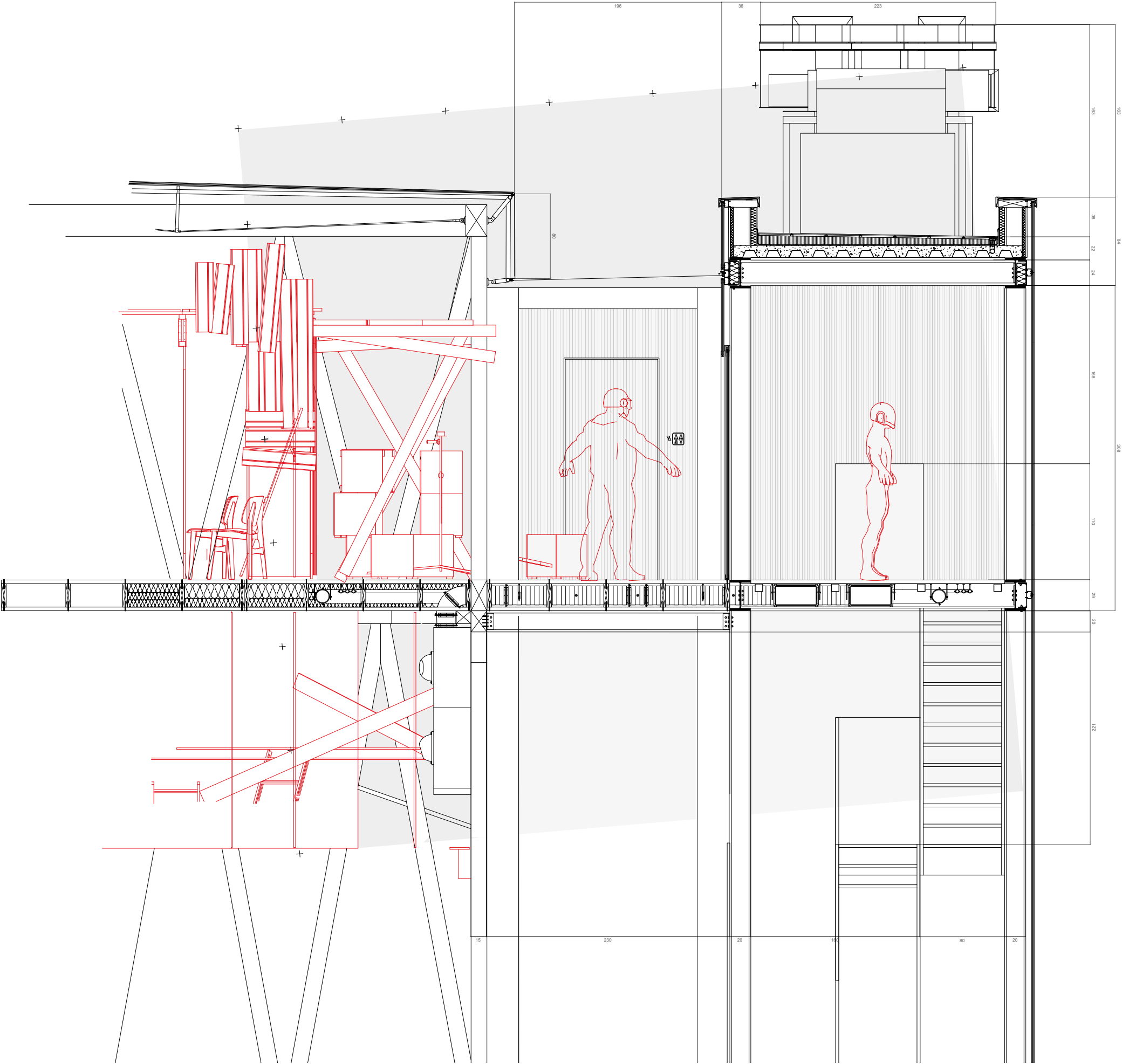
// 1:20 **APPROPRIATED** DETAIL
+ GROUND FOUNDATIONS / PUBLIC PLINTH



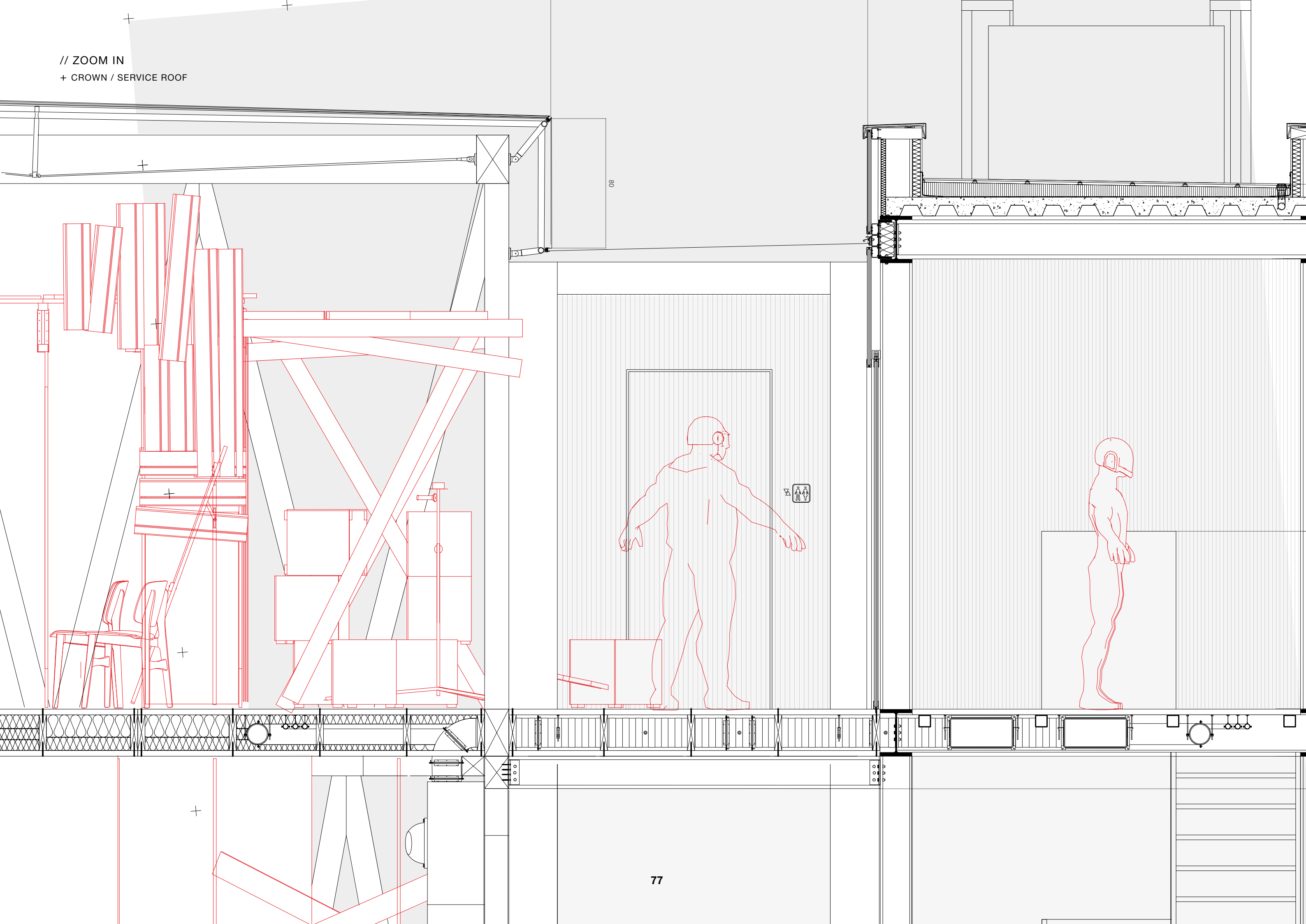
// ZOOM IN
+ GROUND FOUNDATIONS / PUBLIC PLINTH



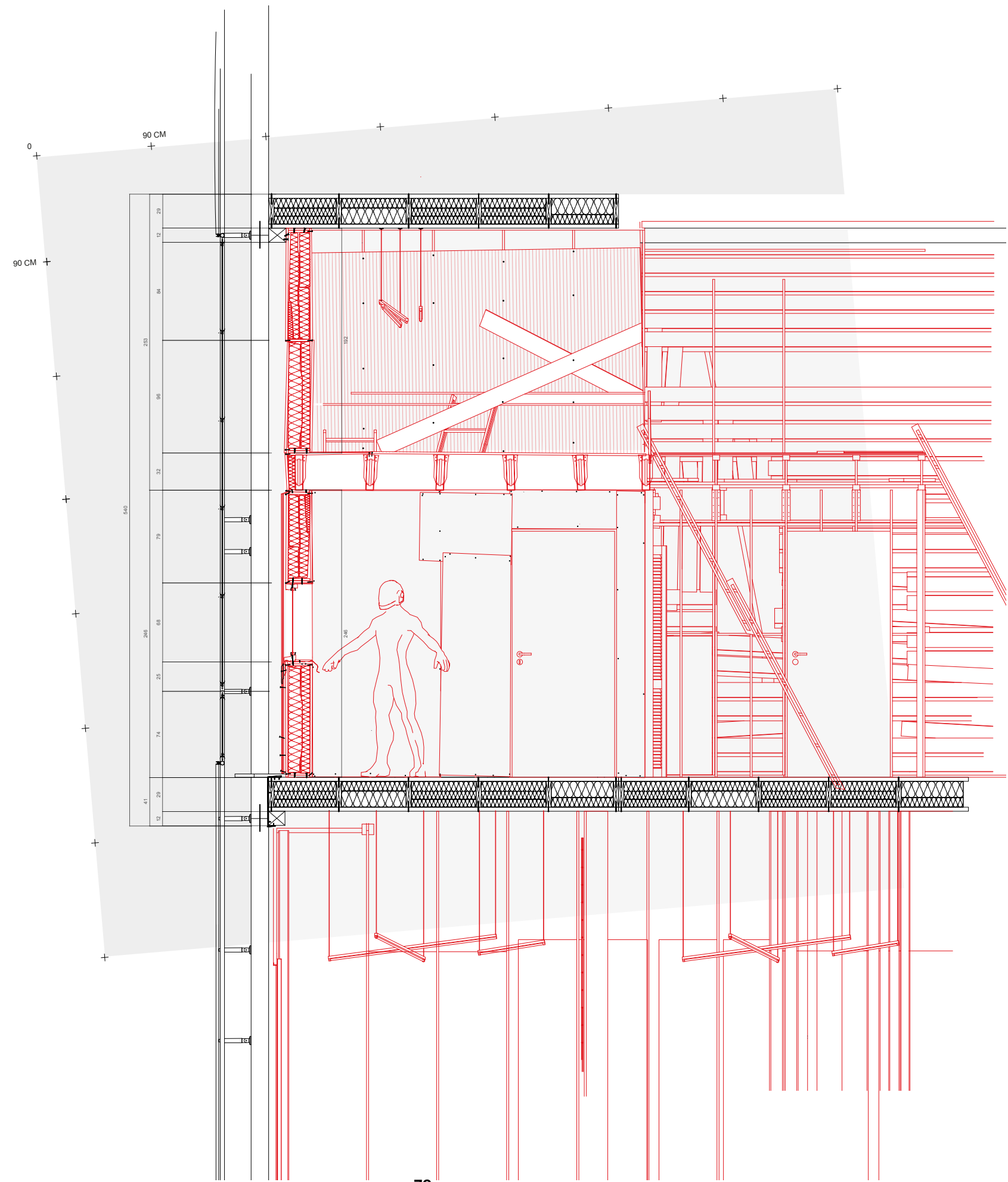
// 1:20 APPROPRIATED DETAIL
+ CROWN / SERVICE ROOF



// ZOOM IN
+ CROWN / SERVICE ROOF

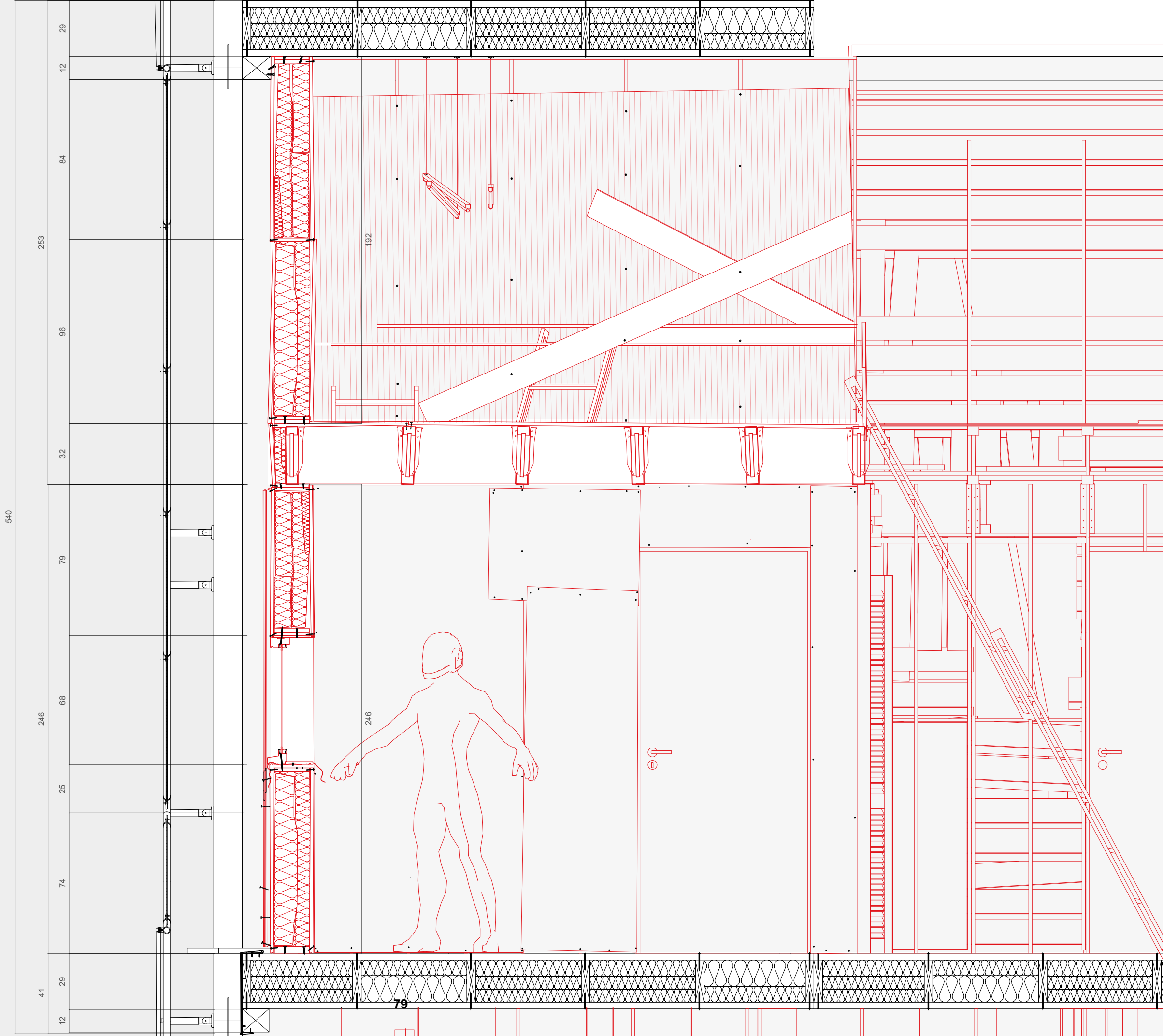


// 1:20 APPROPRIATED DETAIL
+ INTER-FLOORS

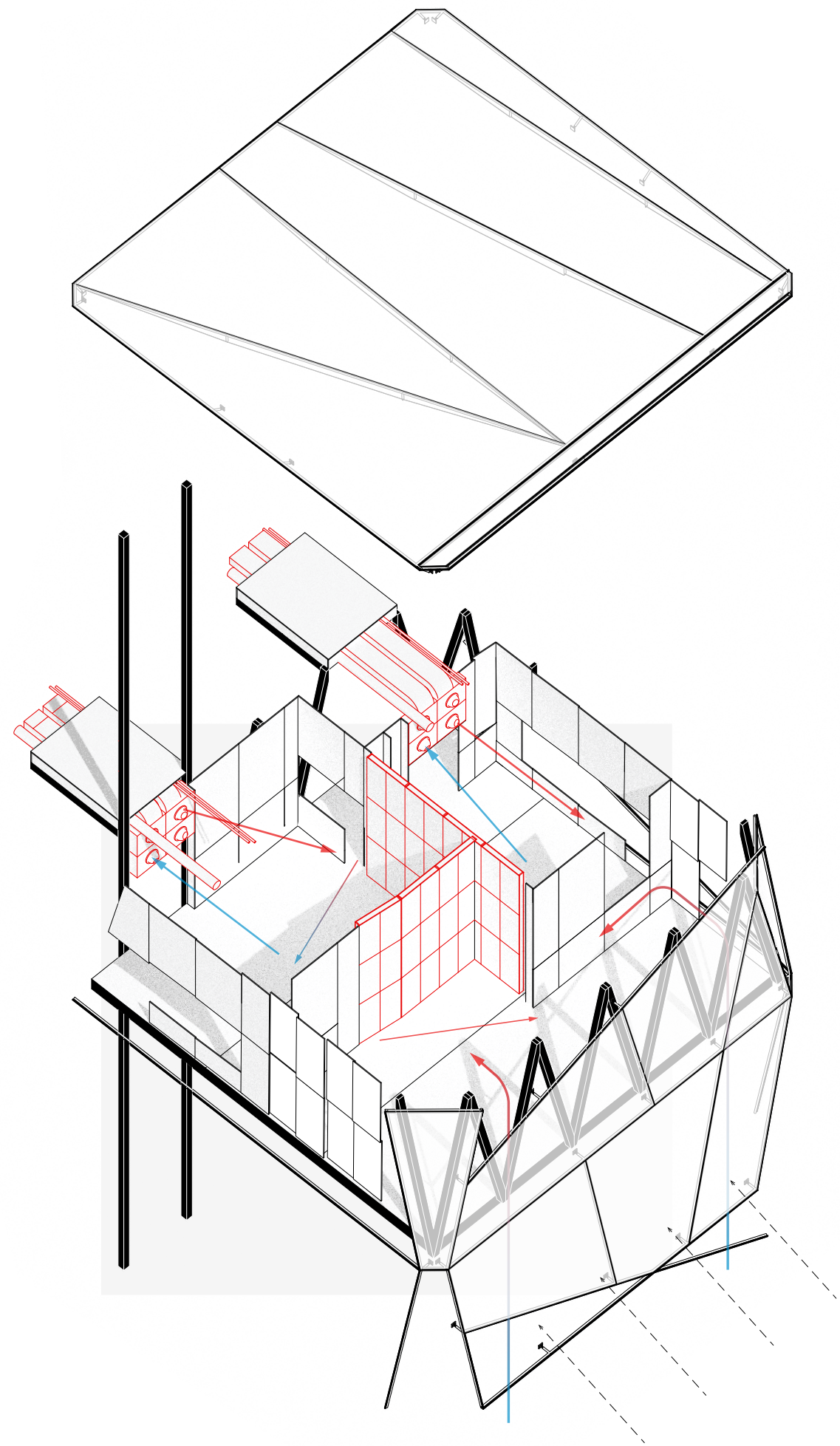


// ZOOM IN
+ INTER-FLOORS

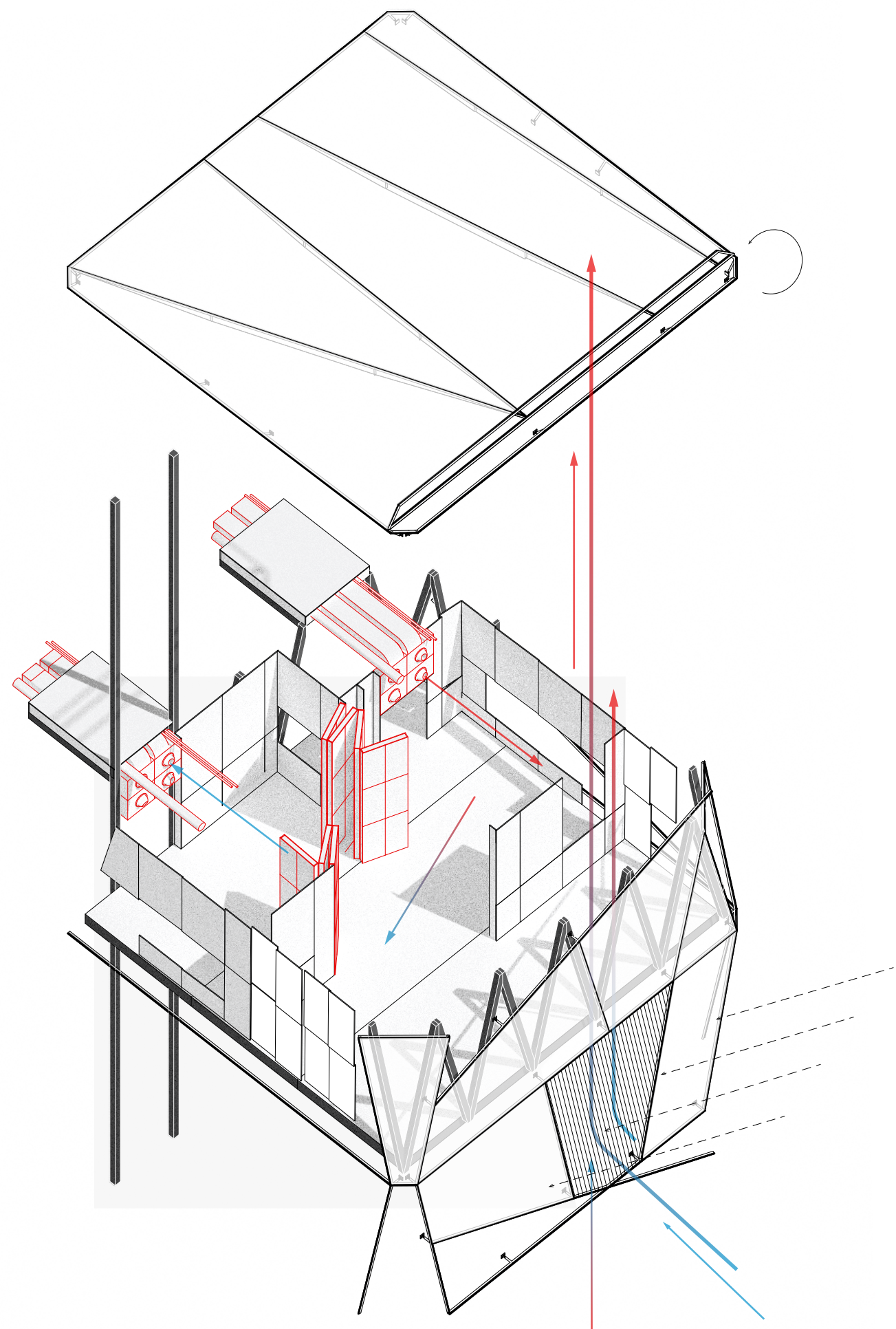
90 CM +



// CLIMATIC ADAPTATION
+ WINTER

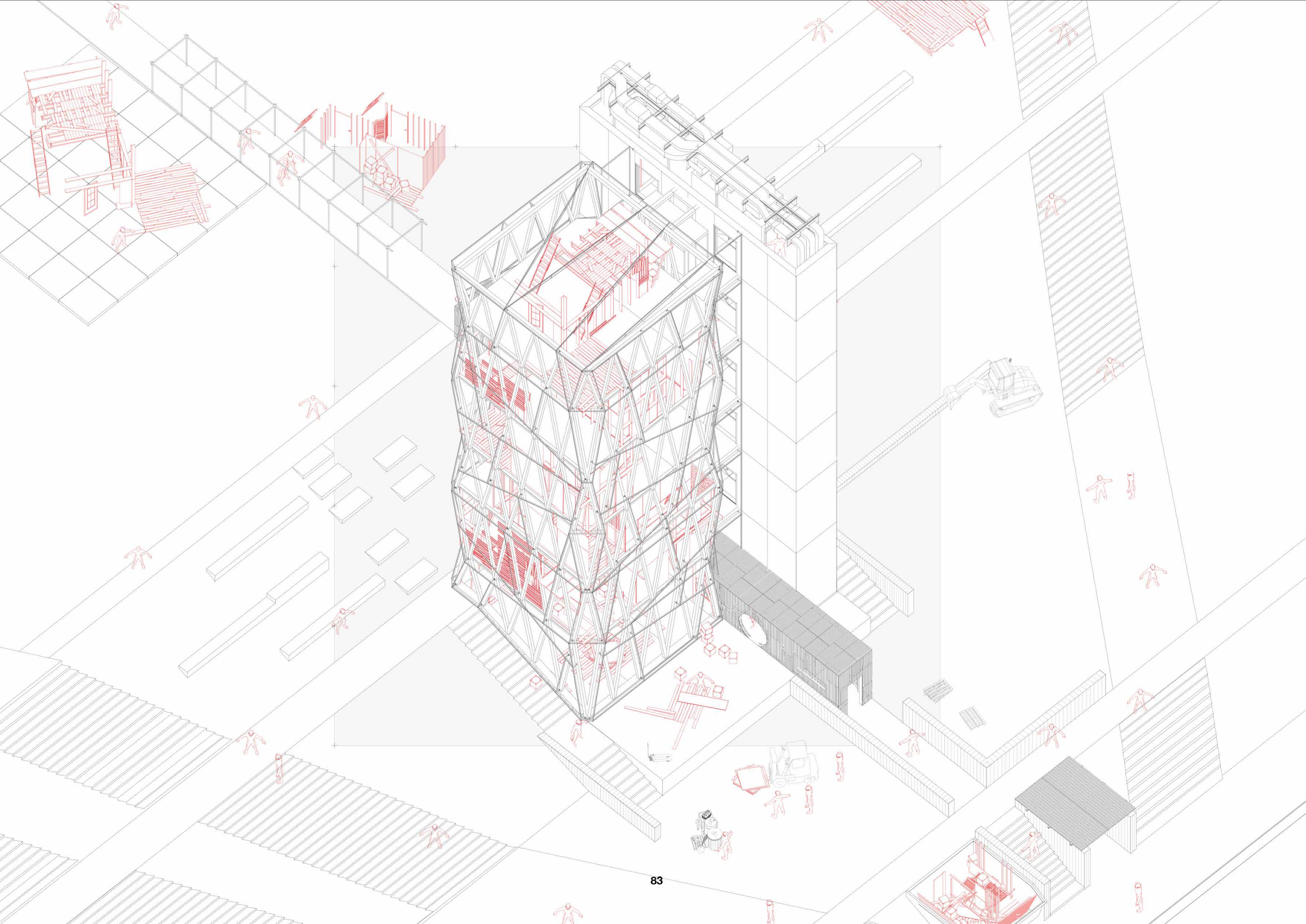


// CLIMATIC ADAPTATION
+ SUMMER

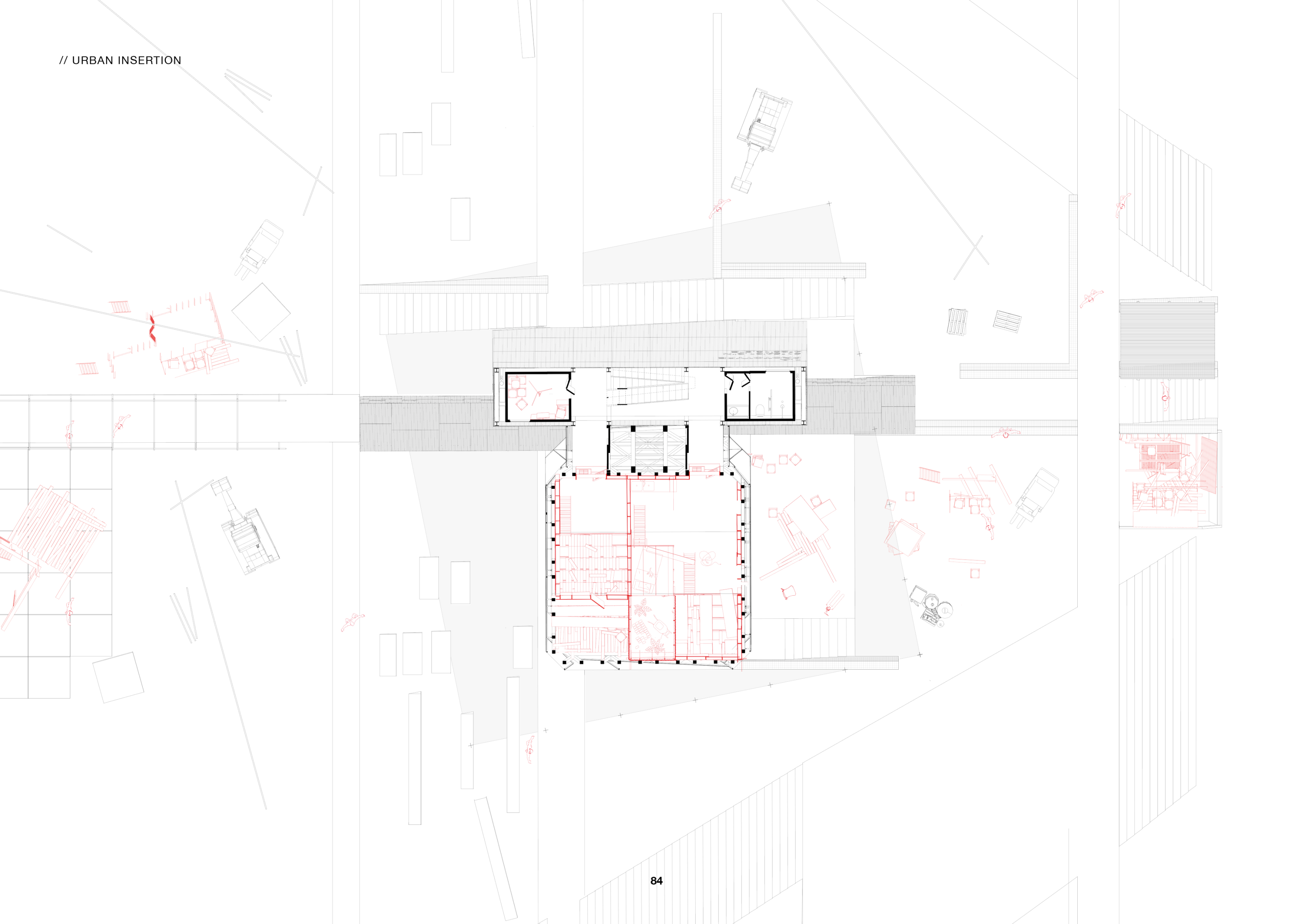


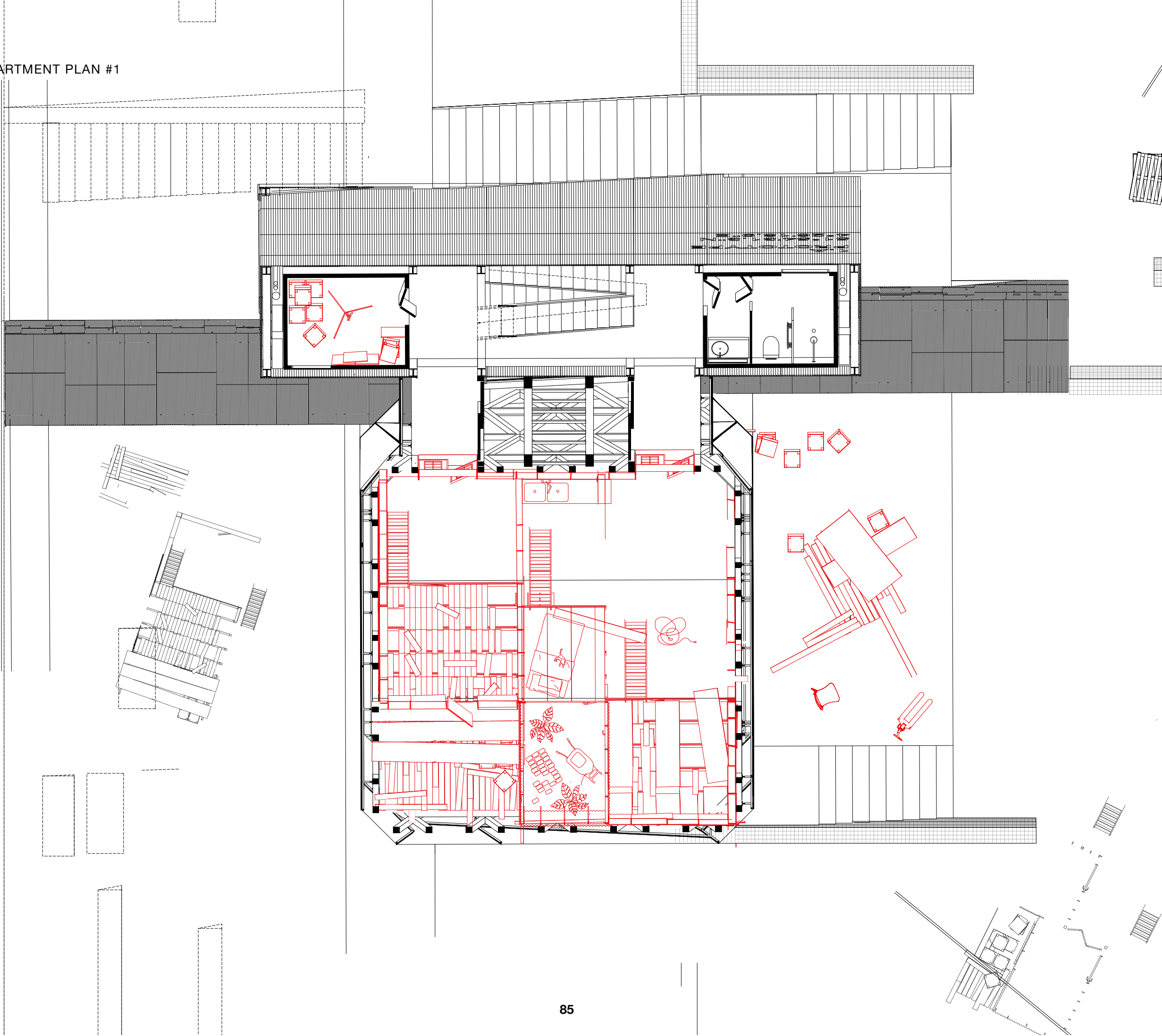
PHASE 5

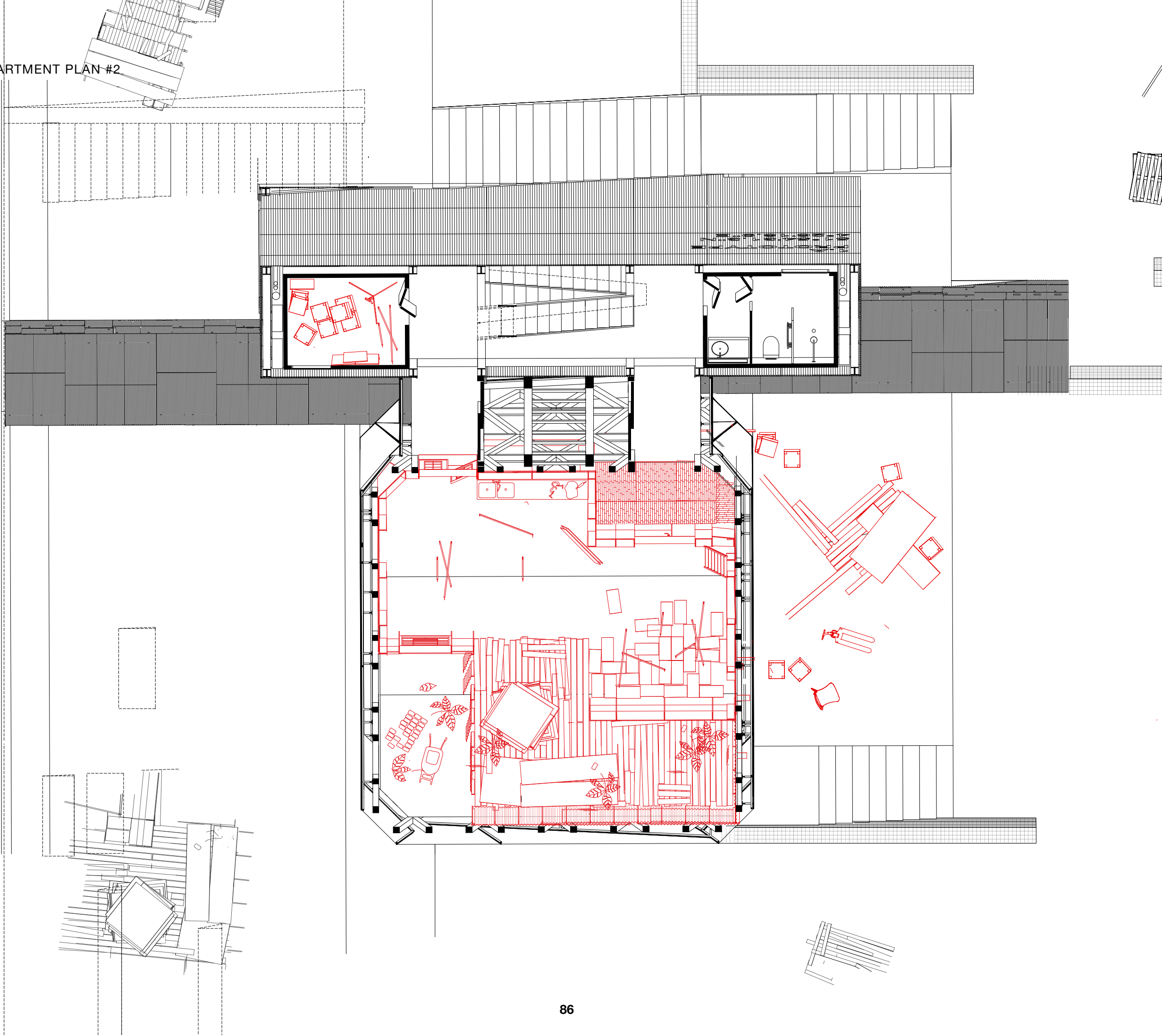
PROTOTYPE AUTONOMY / SELF-EXPANSION



// URBAN INSERTION

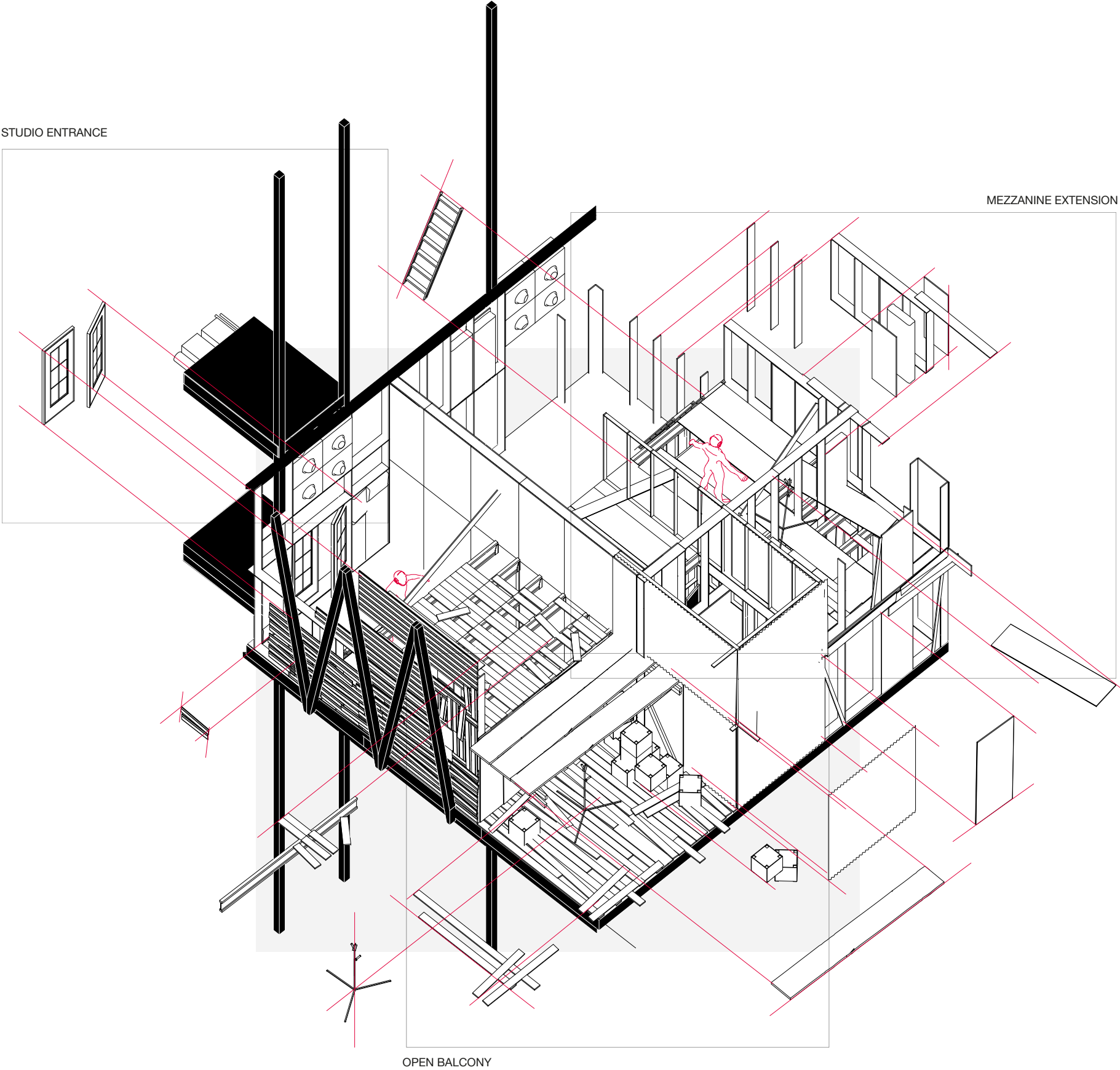






// SECTION OF FULL APPROPRIATION

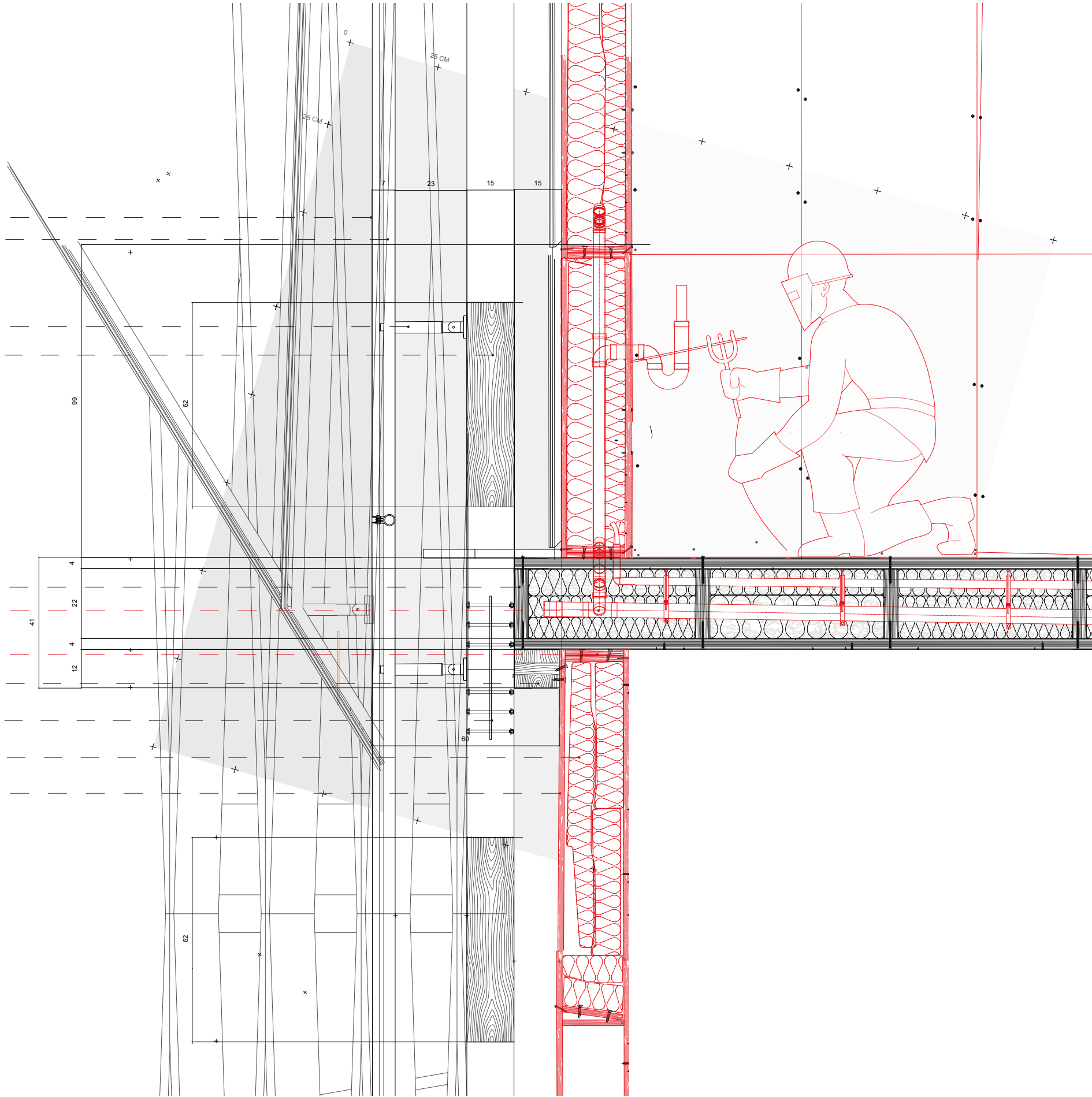




"MANUAL" OF TECHNICAL POSSIBILITIES

// 1:5 APPROPRIATED DETAIL
+ CONTINUOUS INSULATION

- ETFE SINGLE-LAYER FOIL
- TUBULAR STEEL SUB-STRUCTURE
- STEEL SUB-STRUCTURE SUPPORT
- TIMBER DIAGRID EXOSKELETON 150X150MM
- PRE-FABRICATED LVL FLOOR PACKAGE
- KITCHEN SUPPLY / WATER DRAINAGE PIPES
- BIRCH PLYWOOD SLAT
- X-LAM HORIZONTAL BEAM 100X150MM
- METAL-TIMBER CONNECTION PLATE
- WOOD-WOOL INSULATION PANEL
- OSB BOARD 18MM



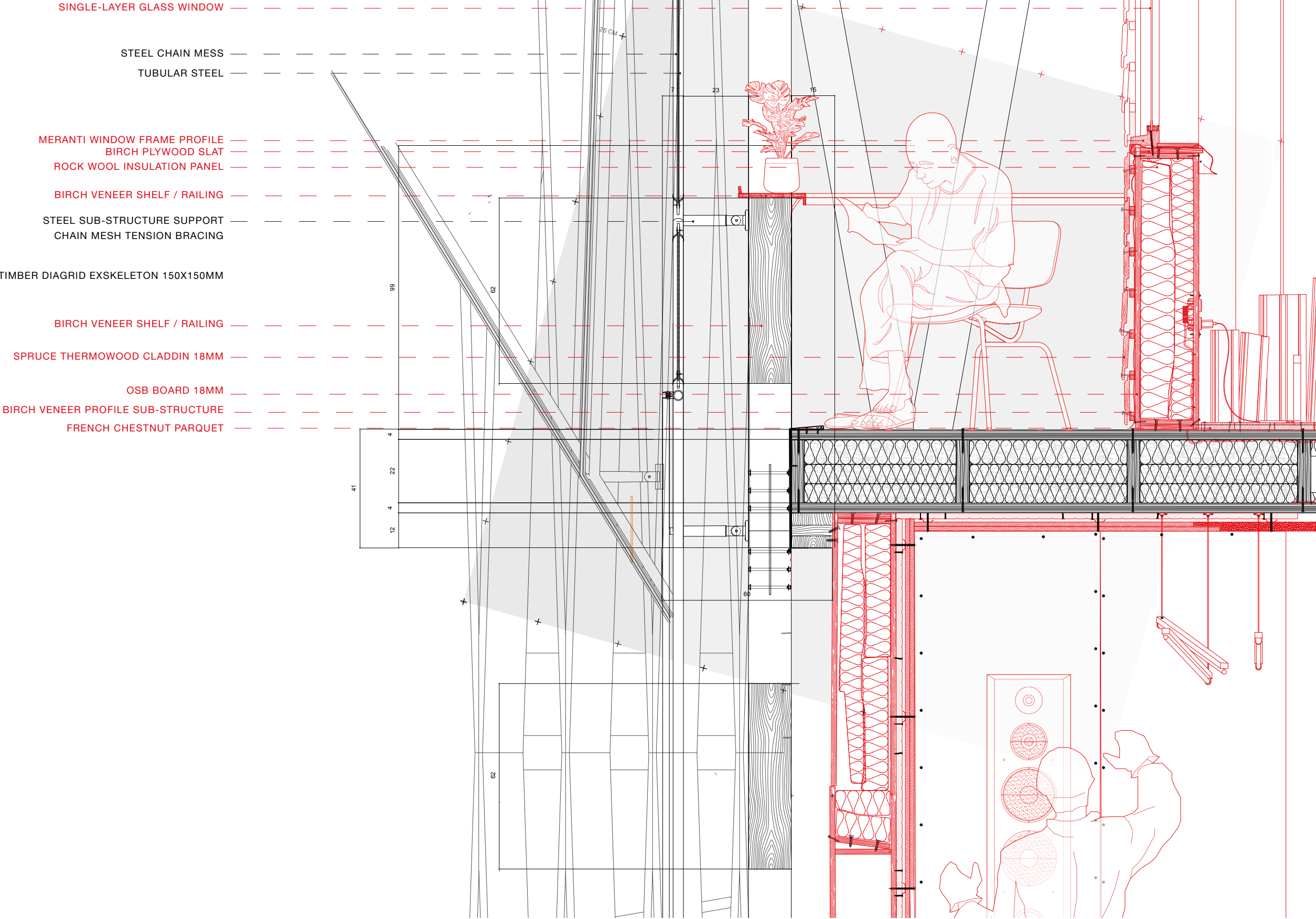
+ ADDITIONAL SOUND PROOFING



ALUMINIUM STIFFENER

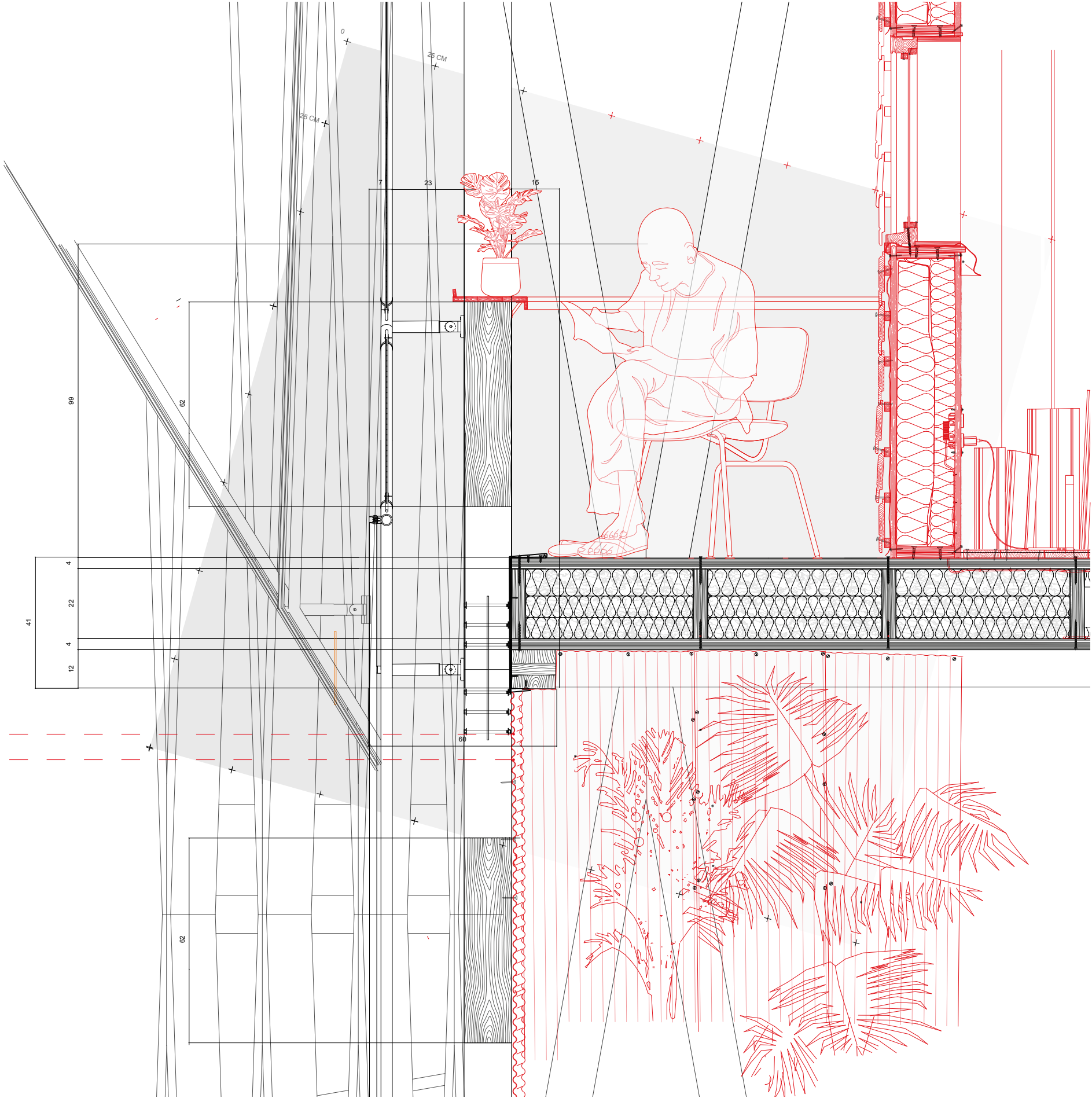
DOUBLE-LAYER GYPSUM DRYWALL

// 1:5 APPROPRIATED DETAIL
+ RECESS

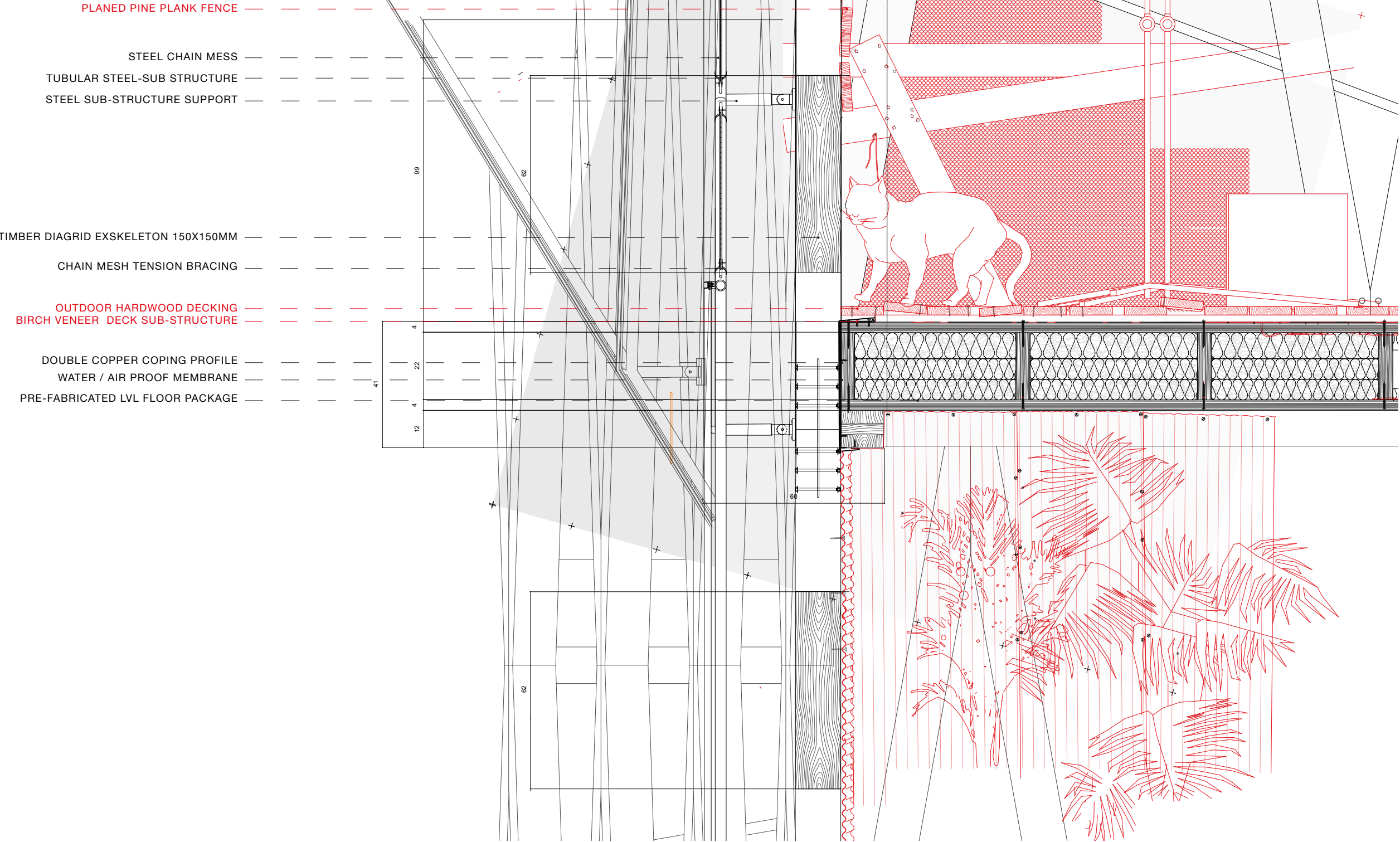


// 1:5 APPROPRIATED DETAIL
+ WINTER GARDEN

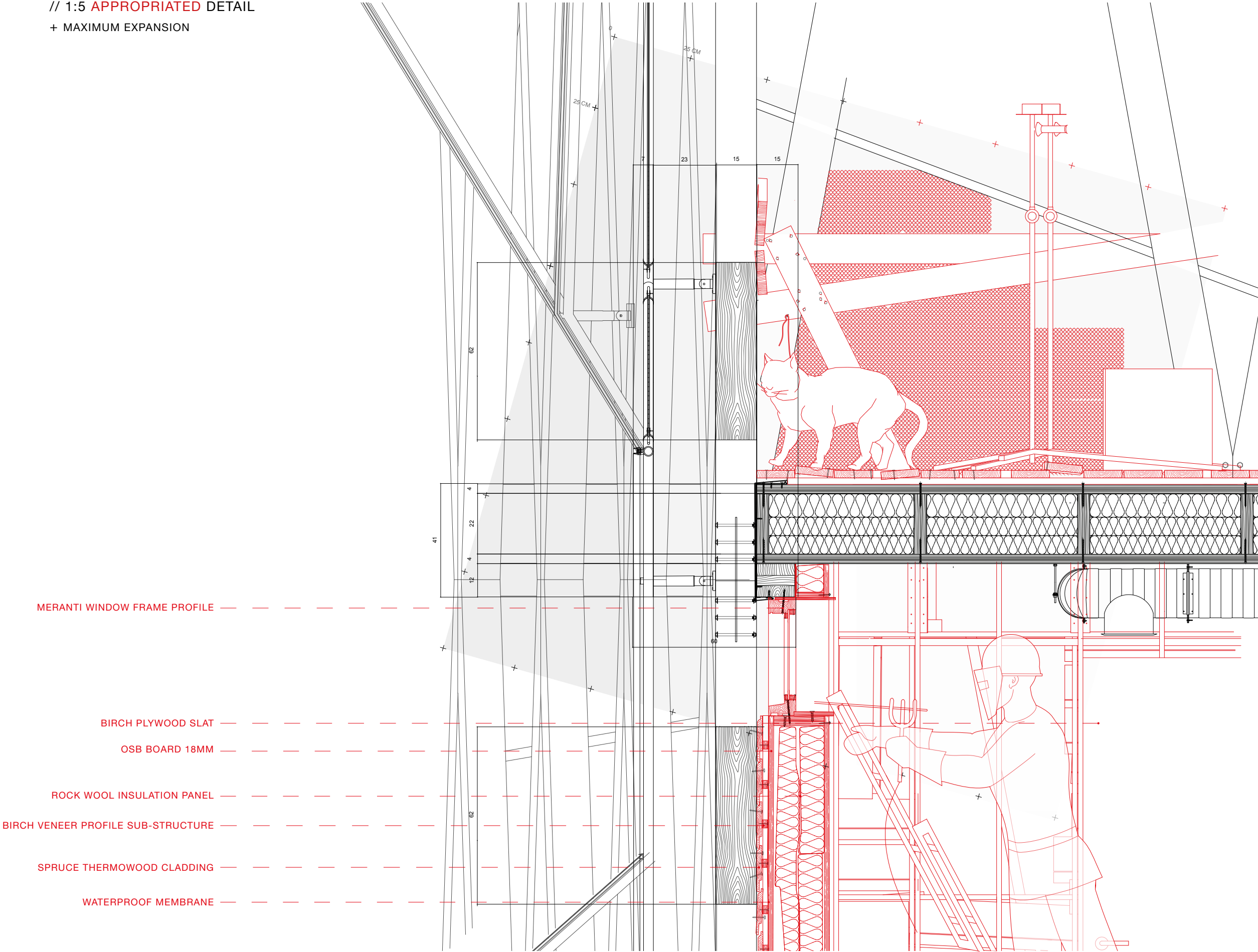
CORRUGATED POLYCARBONATE SHEET
BIRCH VENEER SUB-STRUCTURE PROFILE

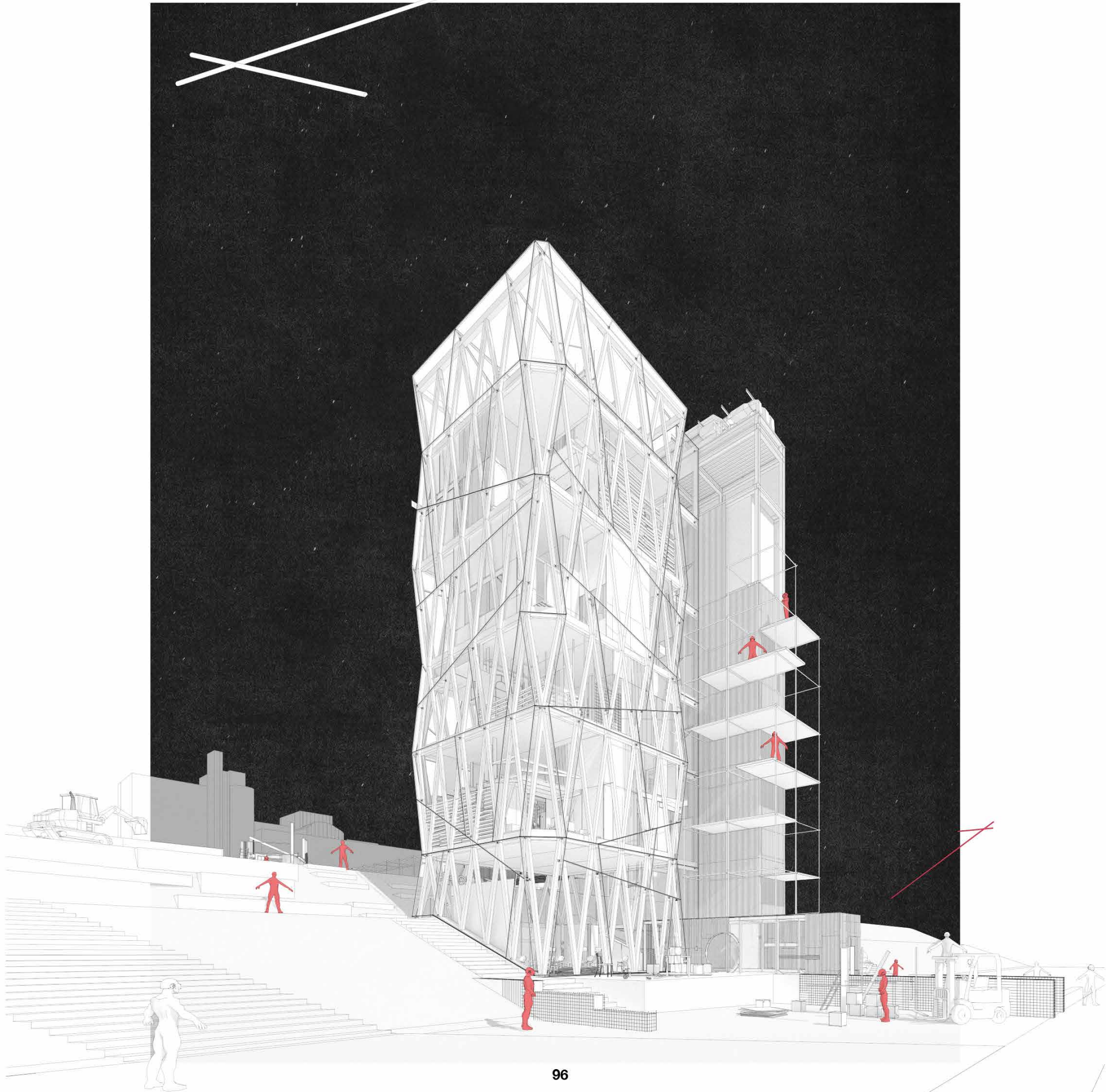


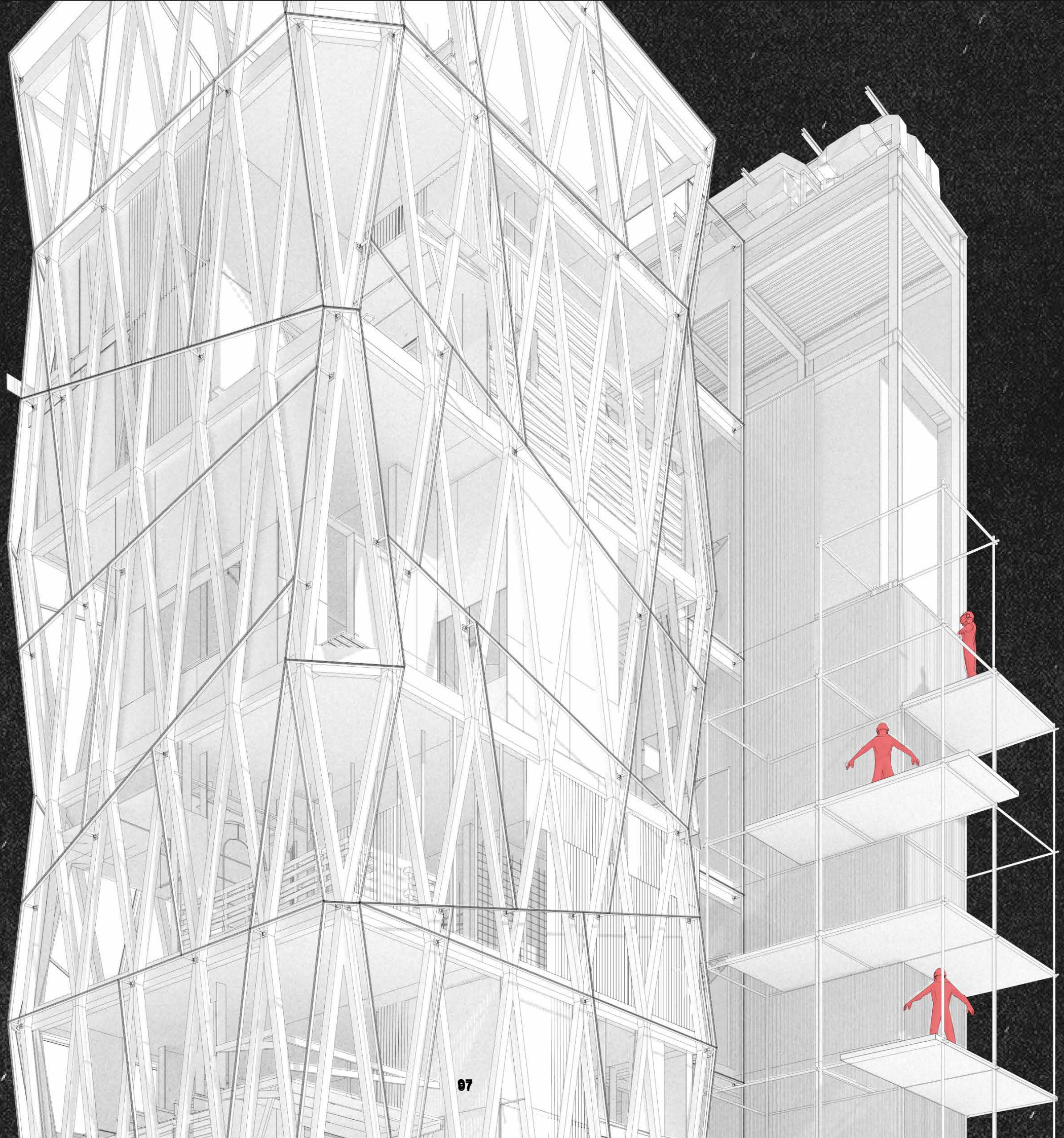
// 1:5 APPROPRIATED DETAIL
+ OPEN TERRACE

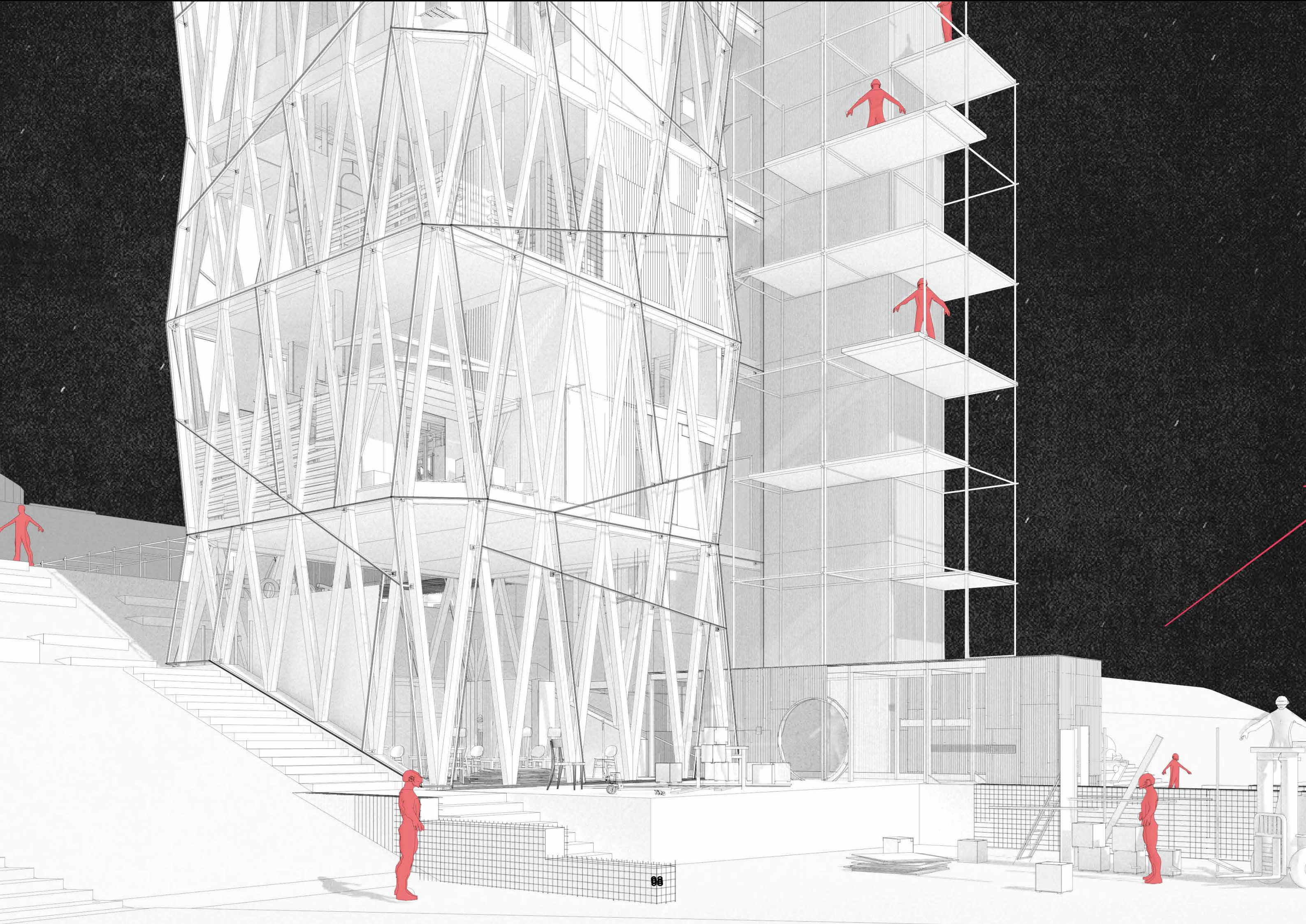


// 1:5 APPROPRIATED DETAIL
+ MAXIMUM EXPANSION











KIT OF CODES

HARD

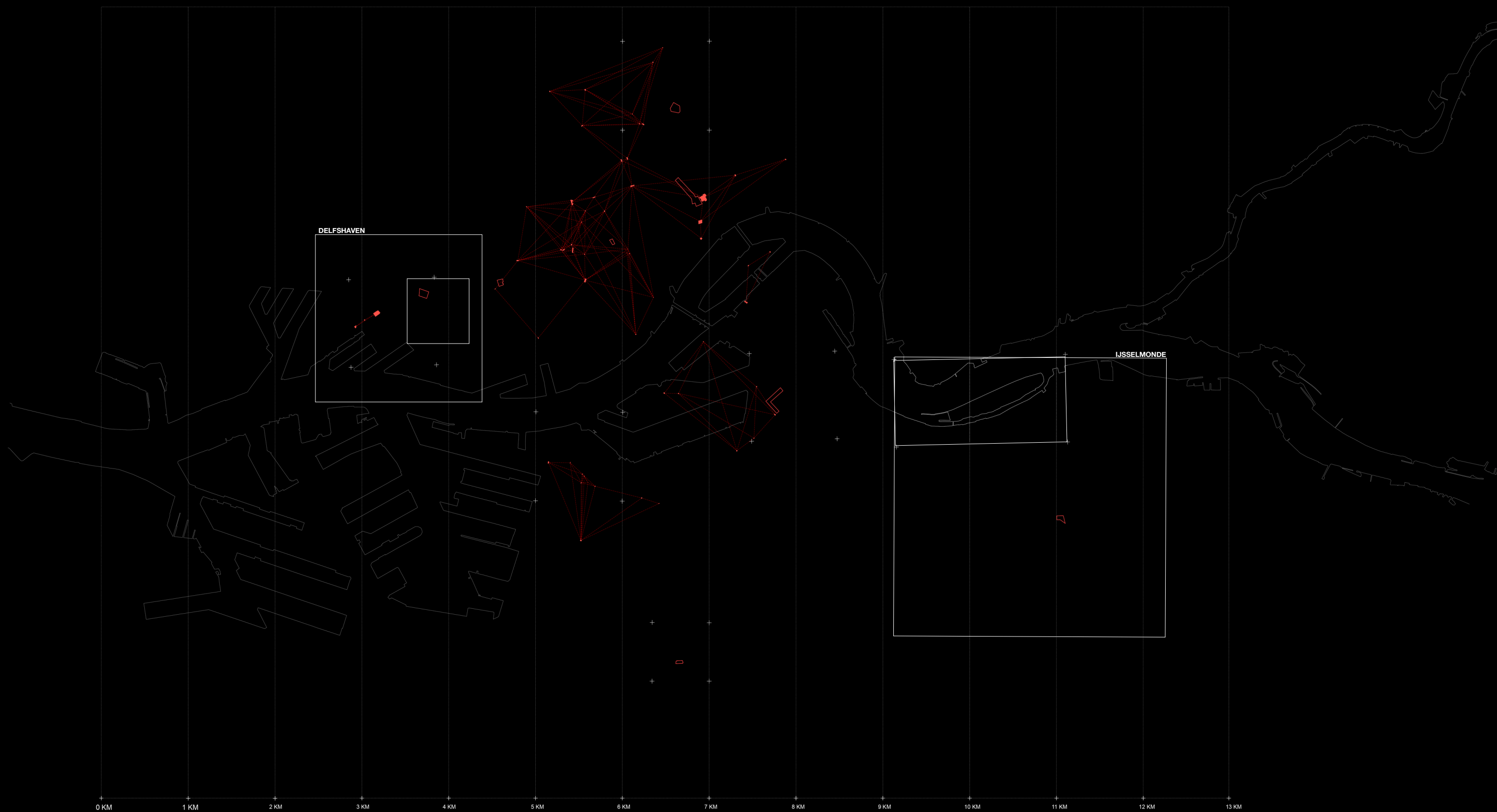
- 1 STRUCTURAL FRAMEWORK
- 2 MAXIMUM VOLUME
- 3 DISJOINED ELEMENTS (PLINTH, SERVICE WALL, ENVELOPE)
- 4 MINIMAL ACTIVATORS (GABION WALLS, PERGOLA, TERRACE)

SOFT

- 5 APPROPRIATION
- 6 USERS INTERACTION
- 7 TEMPORAL OCCUPANCY
- 8 TIME EVOLUTION



"MACHINE"





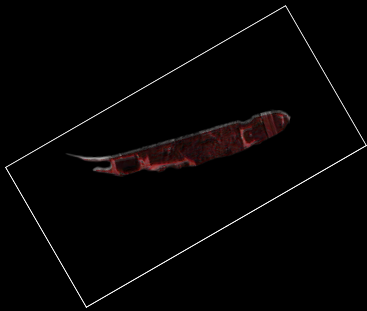
EILAND VAN BRIENENOORD, ROTTERDAM, 2020



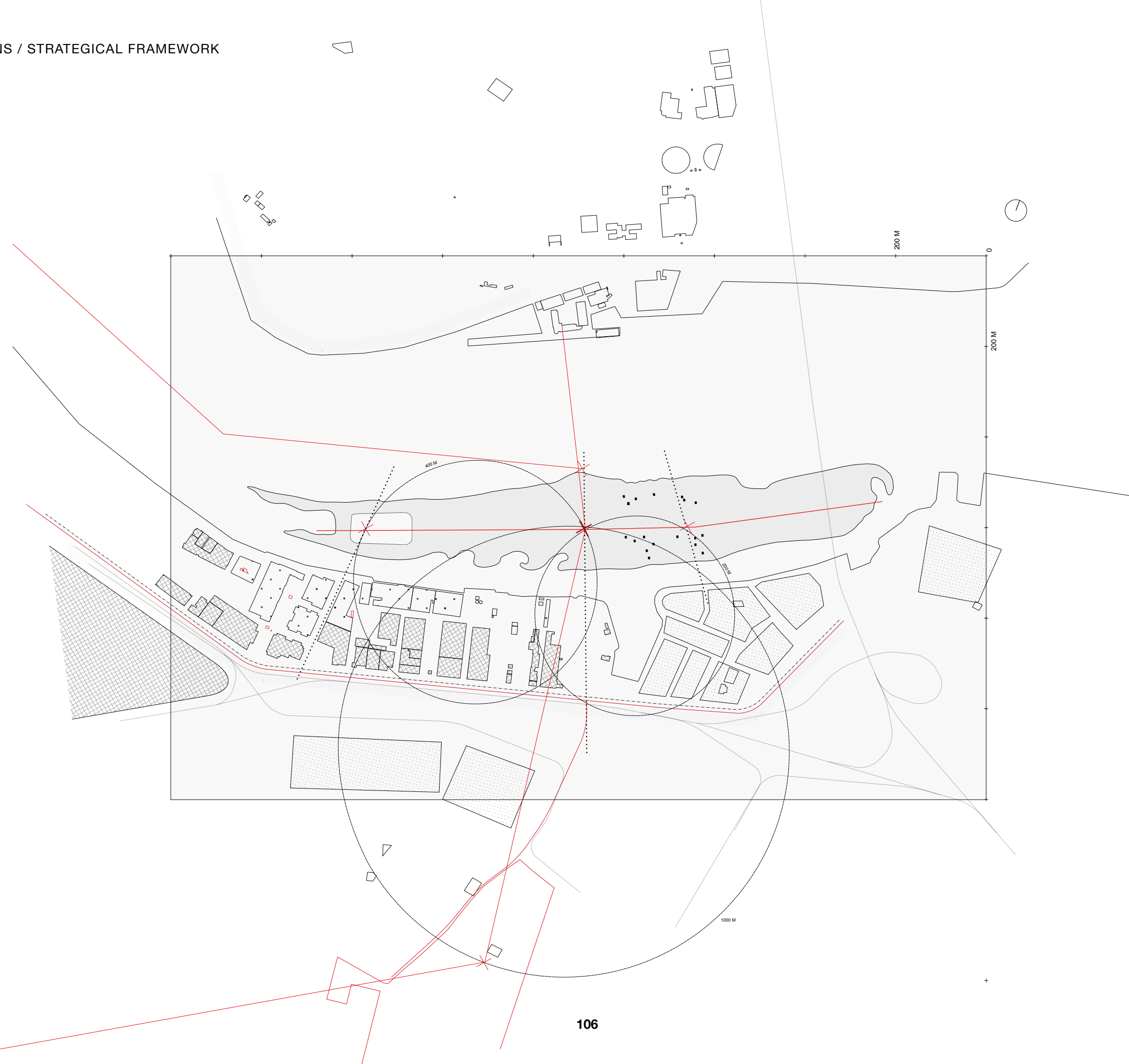
EILAND VAN BRIENENOORD, ROTTERDAM, 2020



EILAND VAN BRIENENOORD, ROTTERDAM, 2020



TOPOGRAPHY		1	2	n	
CAPACITY	A	3 HA	19 HA		+
	B	THIN SOIL / CONCRETE	WATER / WET SOIL / SAND		+
	C	UNPROGRAMMED	UNDERUSED		+
ECOLOGY		COMMUNITY	TERRITORY		+
ACTORS	E	LOCAL DWELLERS; DELFSHAVEN COÖPERATIE; DAKPARK FOUNDATION;	CITY DWELLERS; STICHTING 'N BRIES; ISLAND COUNCIL OF BUITENPLAATS BRIENENOORD; V.T.V.VAN BRIENENOORD;		+
	F	CO-LIVING BUILDING WORKSHOP; COMMUNITY KITCHEN; LOOKOUT PLATFORM; APARTMENTS/SHELTERS	AGRICULTURE FARMING; ALLOTMENTS; WALKWAY; PUBLIC PARK; WATER POOLS		+
SPATIAL AGENCY	G	ACTIVATE	TRANSFORM		+
					+
TIME CYCLE		DAY / WEEK	MONTH / YEAR		



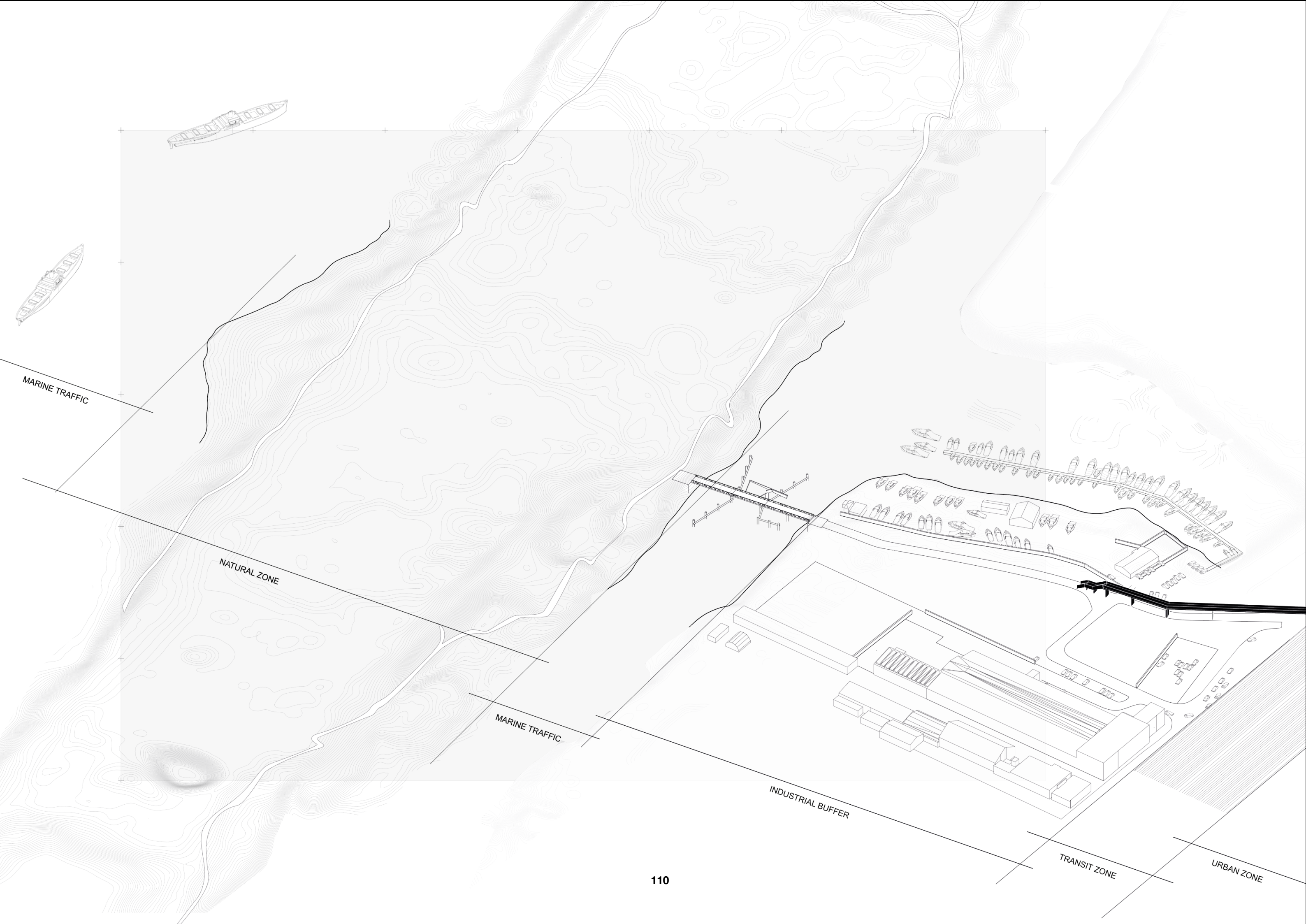


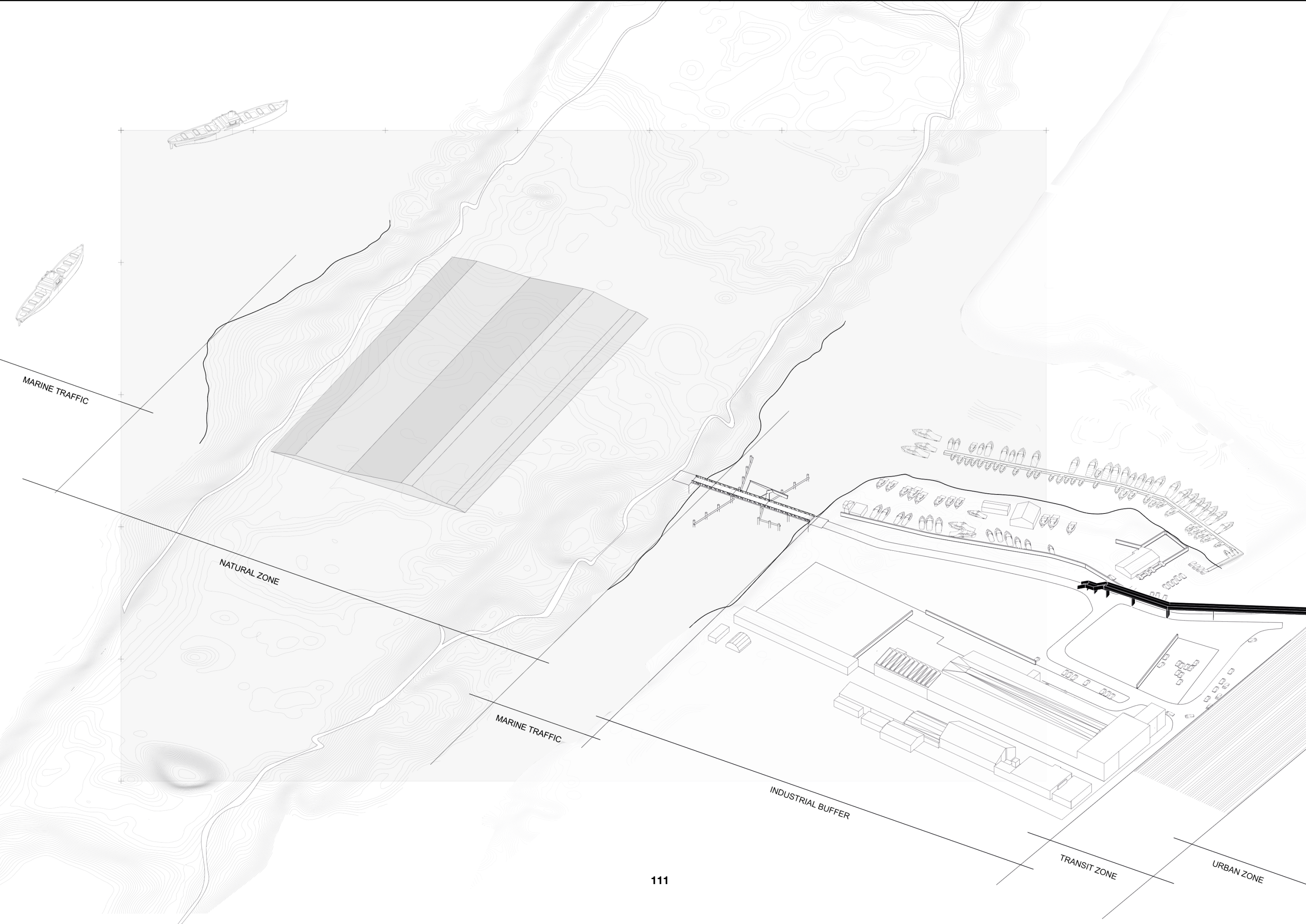
	PROTOTYPE	MACHINE
HARD	1 STRUCTURAL FRAMEWORK	1 INFRASTRUCTURAL FRAMEWORK
	2 MAXIMUM VOLUME	2 MAXIMUM AREA CAPACITY
	3 DISJOINED ELEMENTS (PLINTH, SERVICE WALL, ENVELOPE)	3 DISJOINED ELEMENTS (PATHS, FACILITIES, SURFACES)
	4 MINIMAL ACTIVATORS (GABION WALLS, SCAFFOLDING, TERRACE)	4 MINIMAL FRAMES (GABION WALLS, PERGOLA, TERRACE)
SOFT	5 APPROPRIATION	5 URBAN ACCESSIBILITY
	6 USERS INTERACTION / APPROPRIATION	6 USERS INTERACTION / APPROPRIATION
	7 TEMPORAL OCCUPANCY	7 TEMPORAL MANTAINANCE
	8 TIME EVOLUTION	8 NATURE EVOLUTION





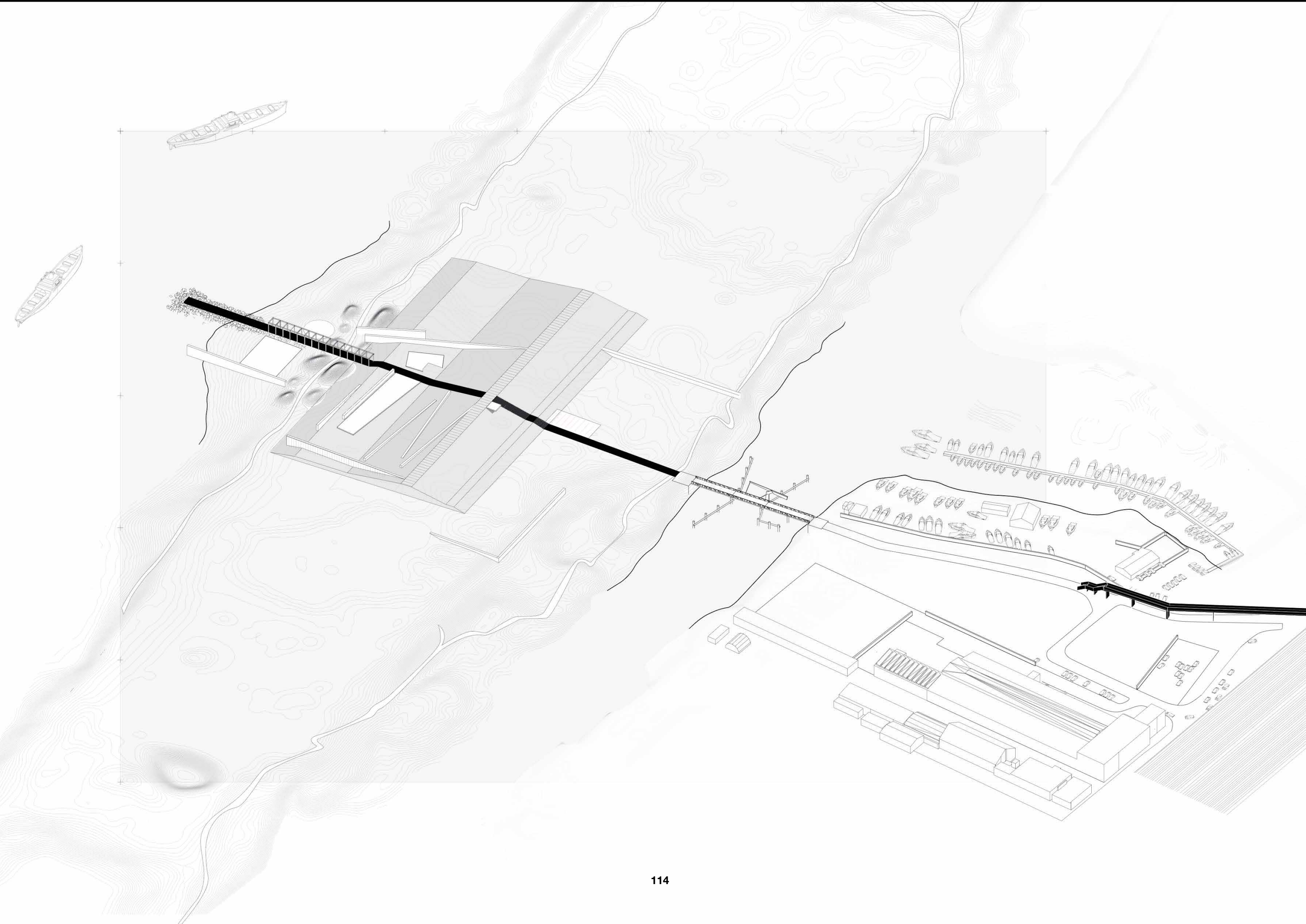




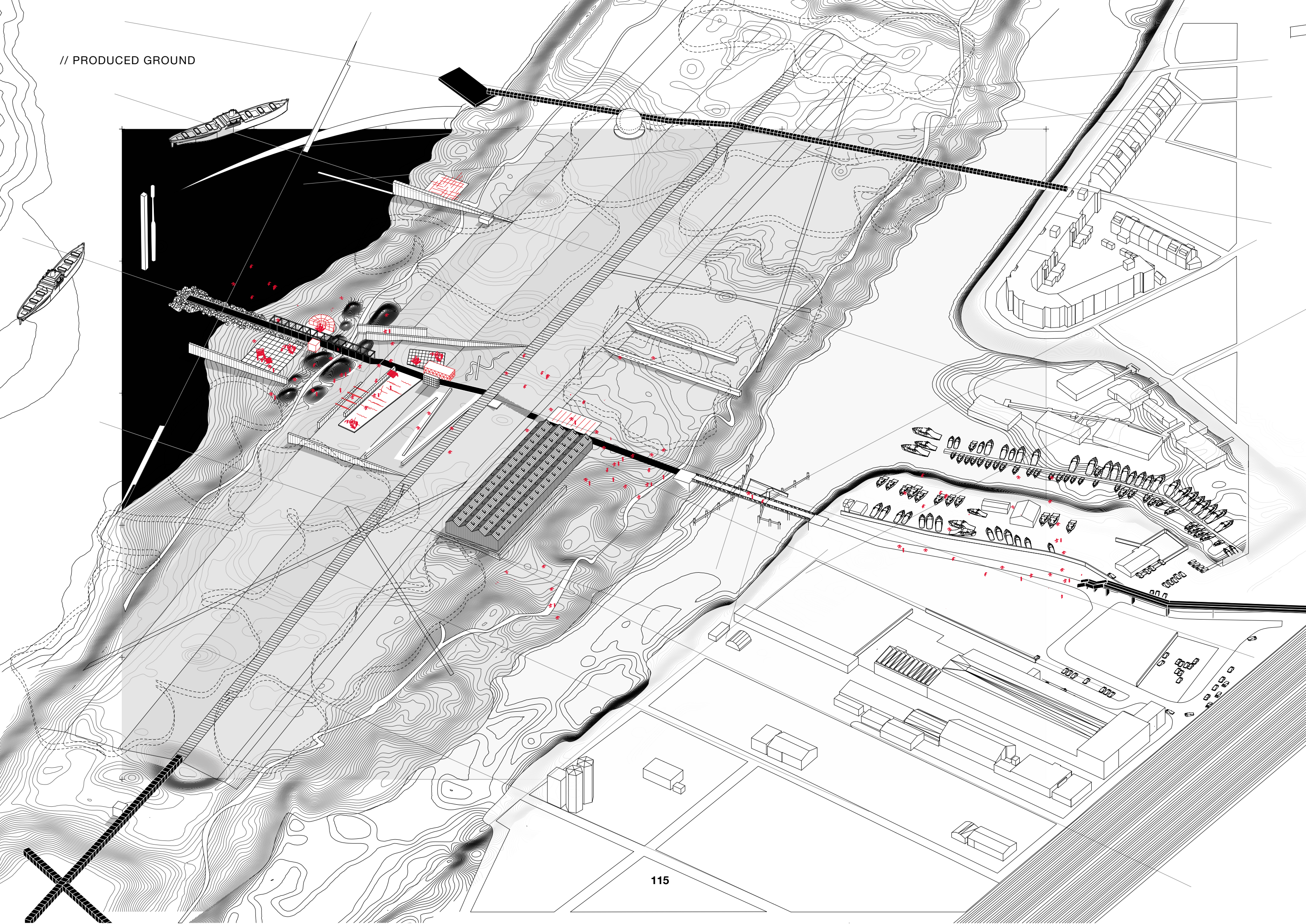


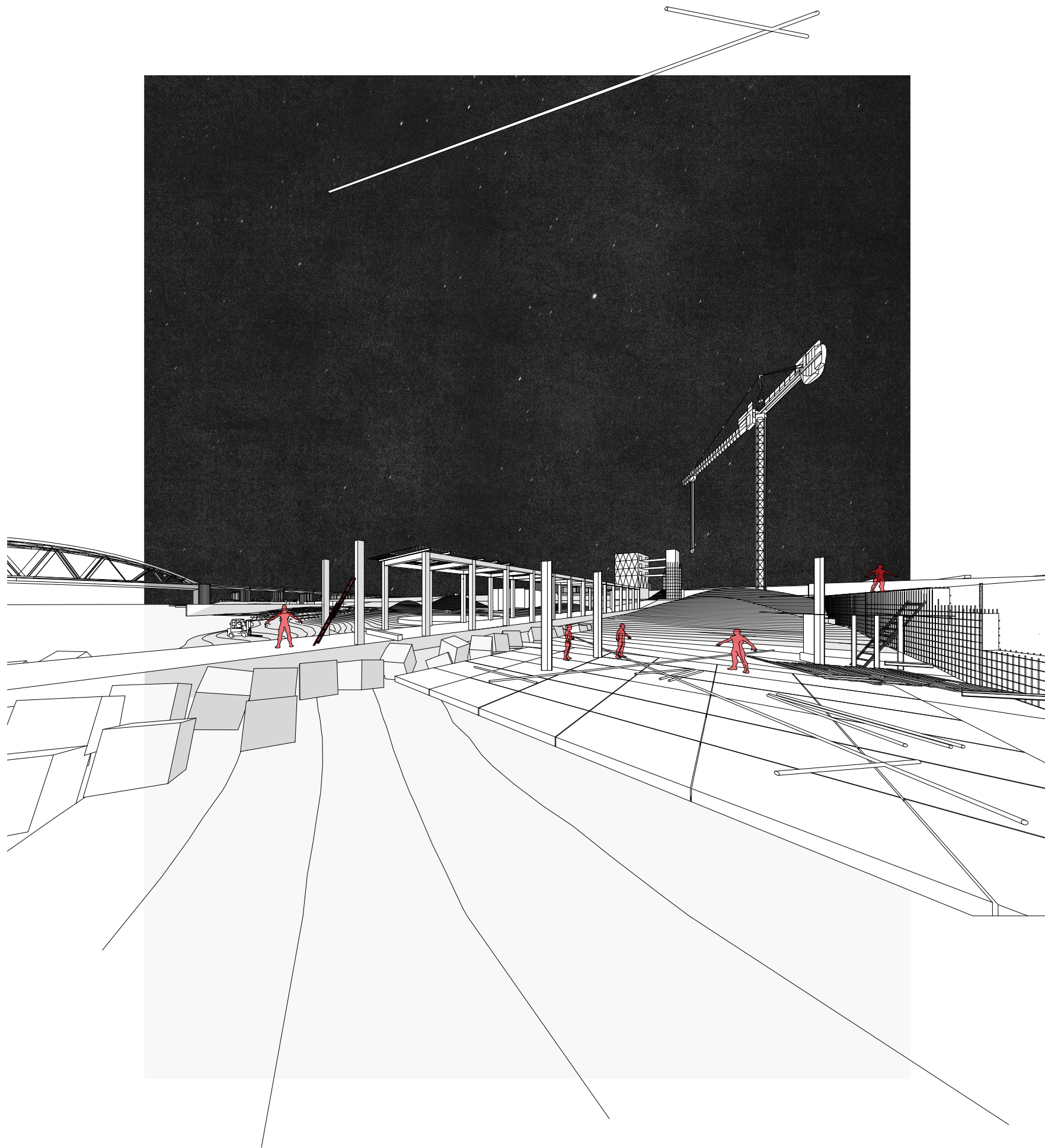






// PRODUCED GROUND



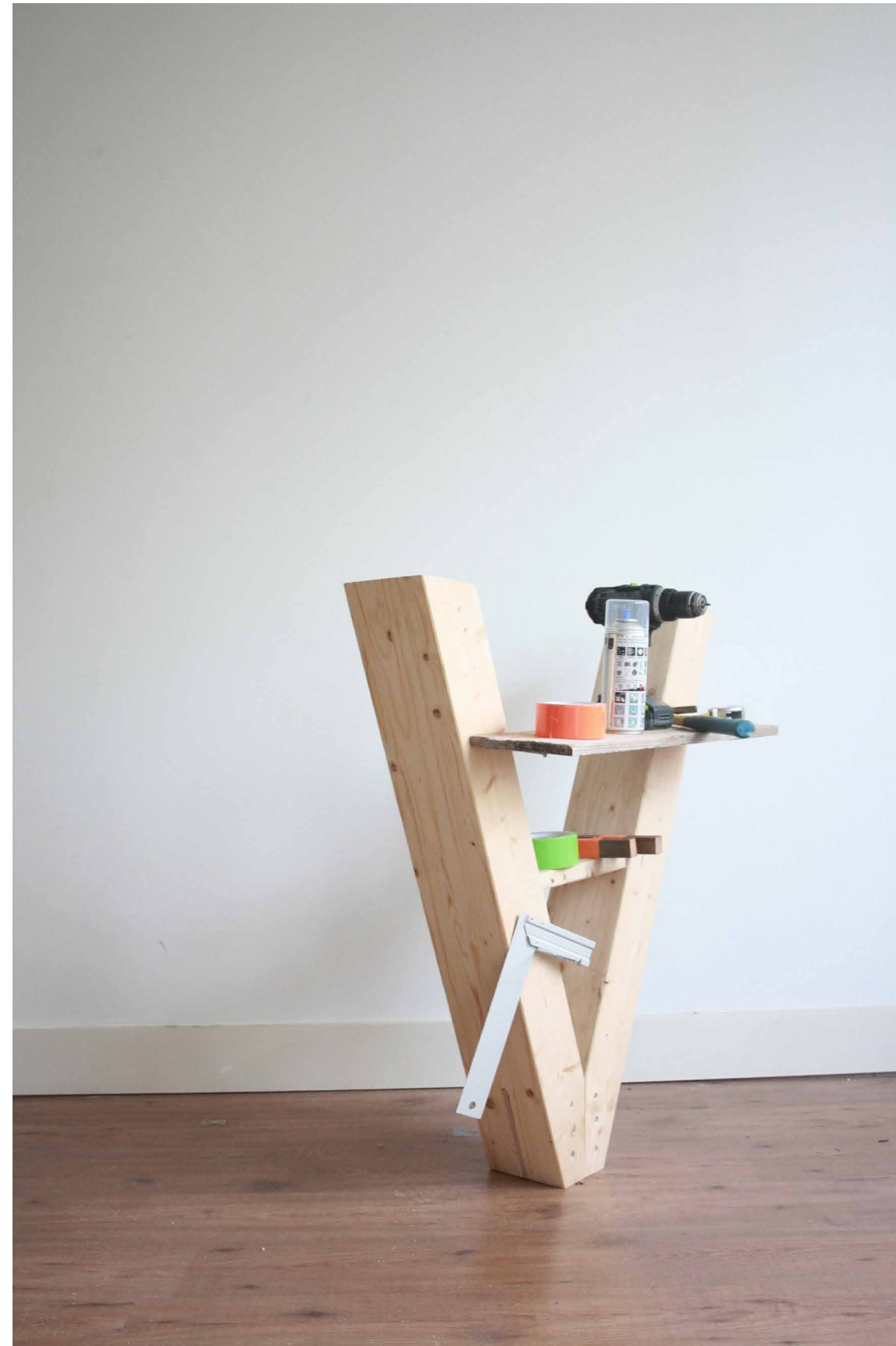


1:1 REFLECTION



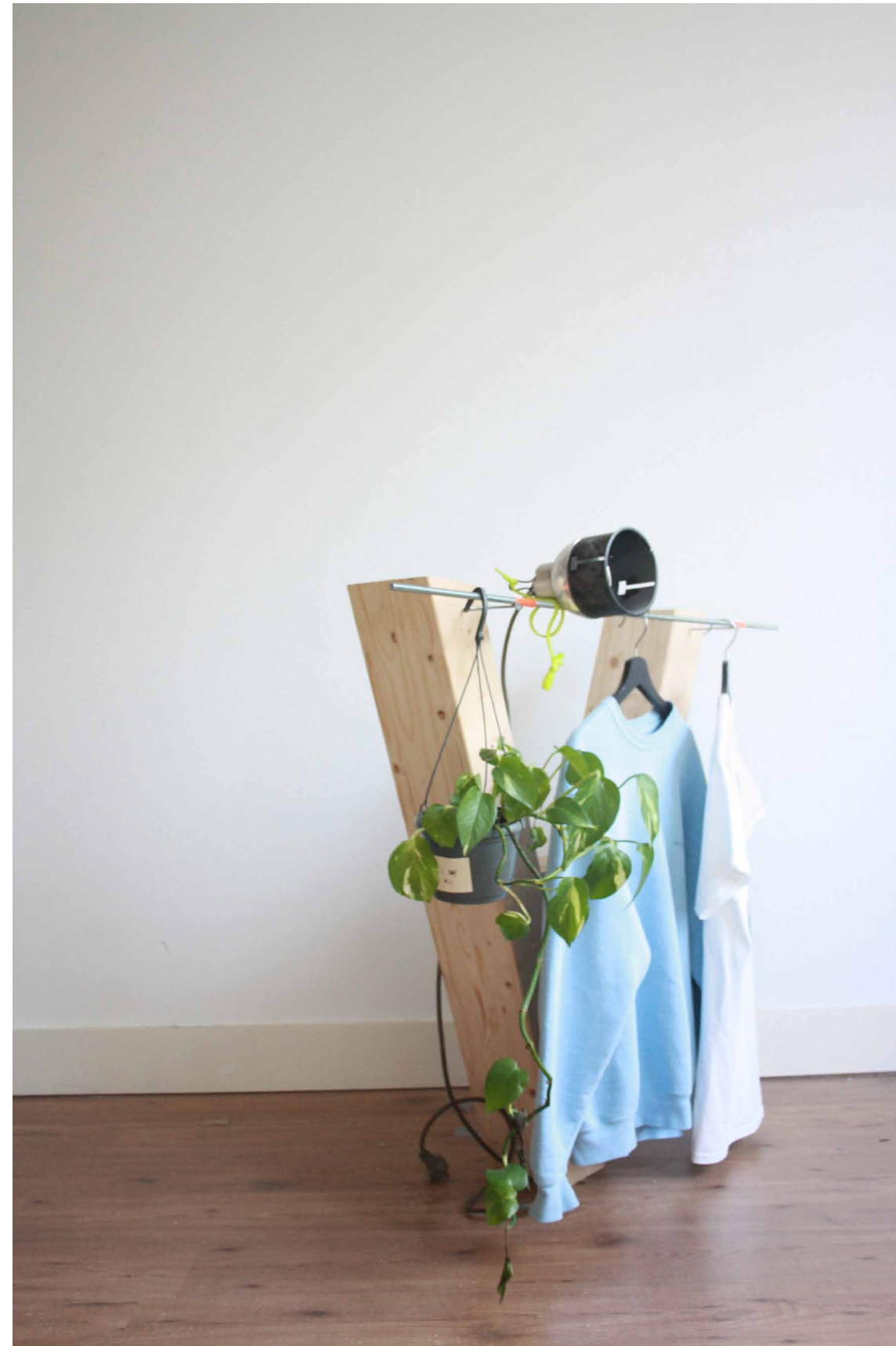










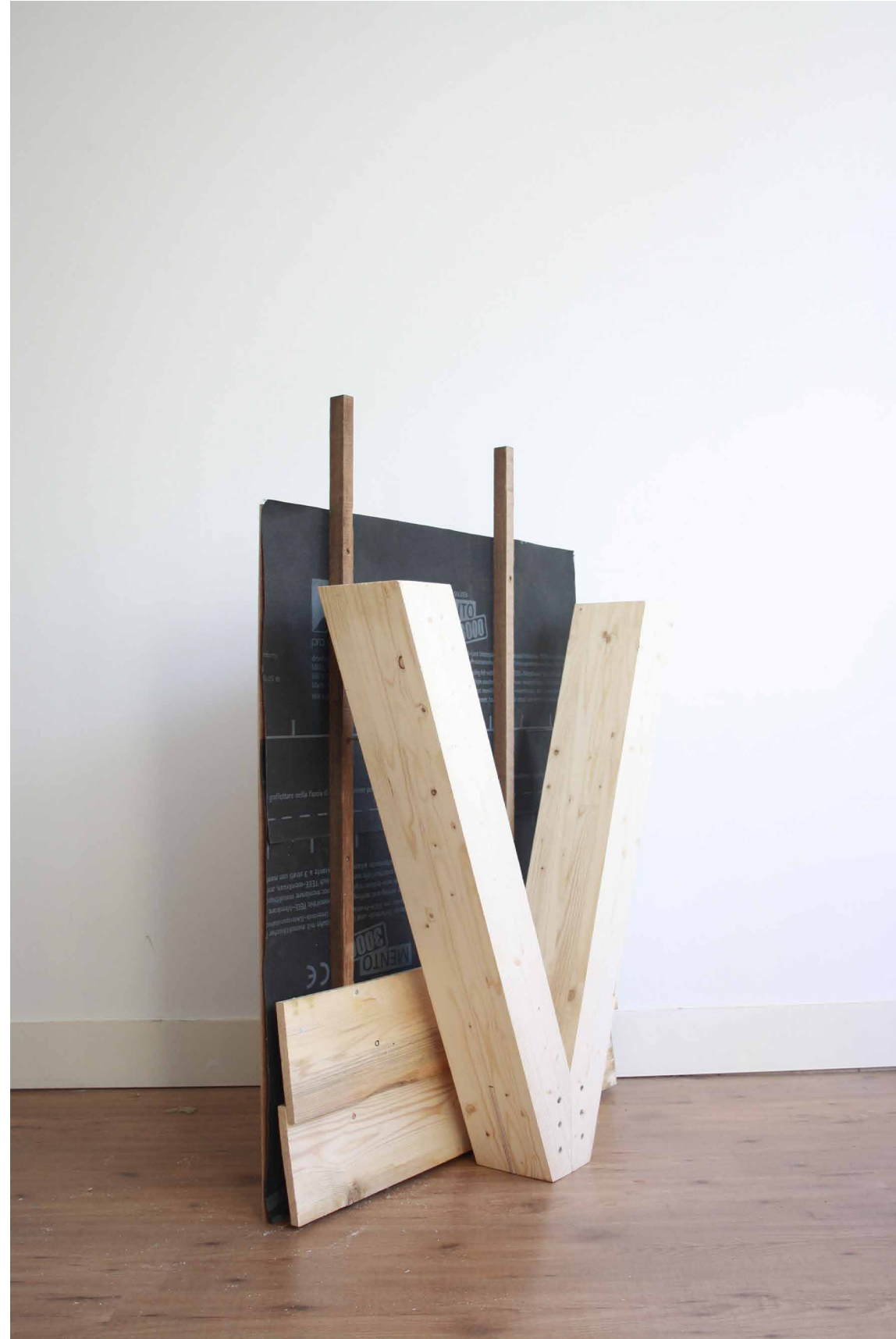






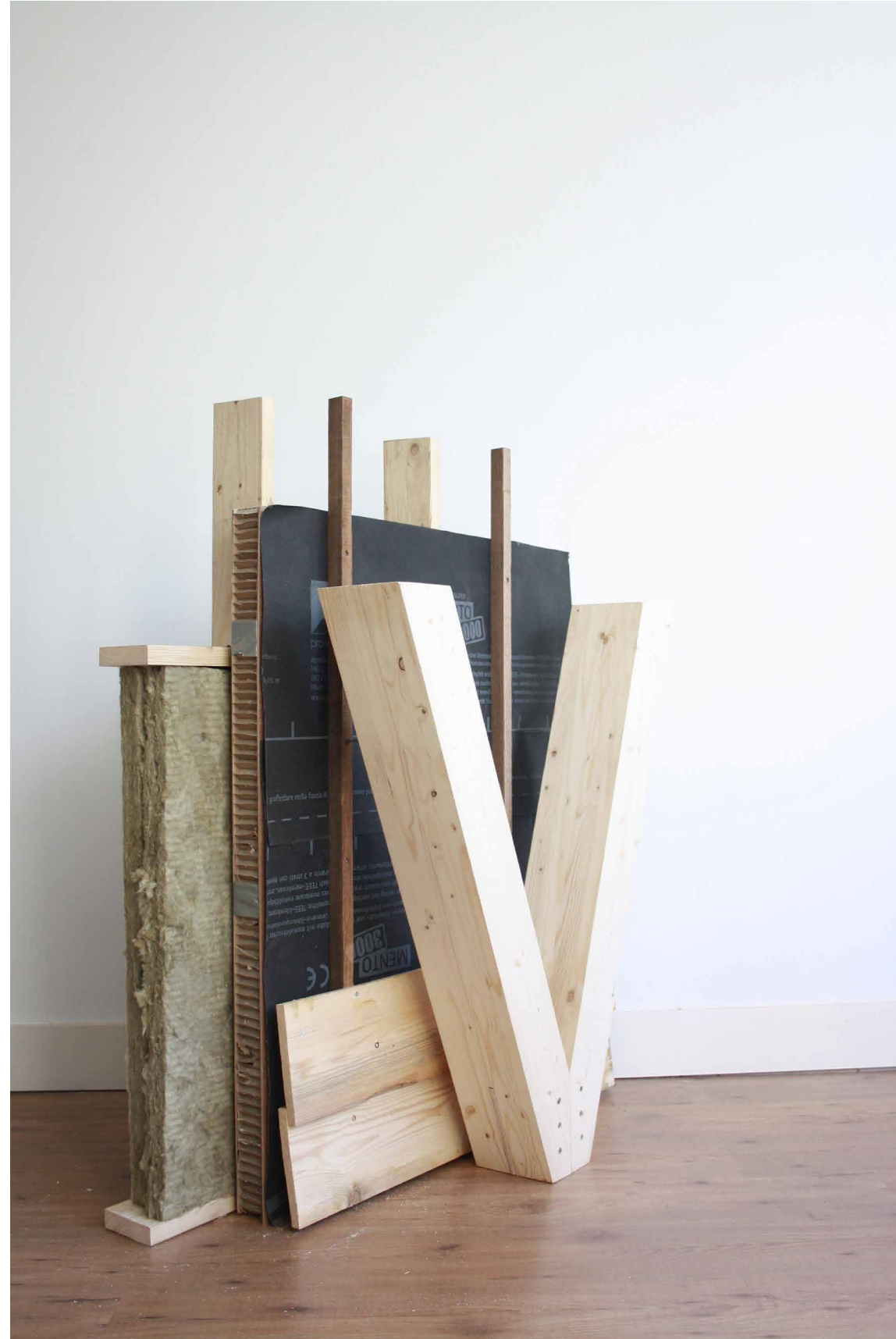


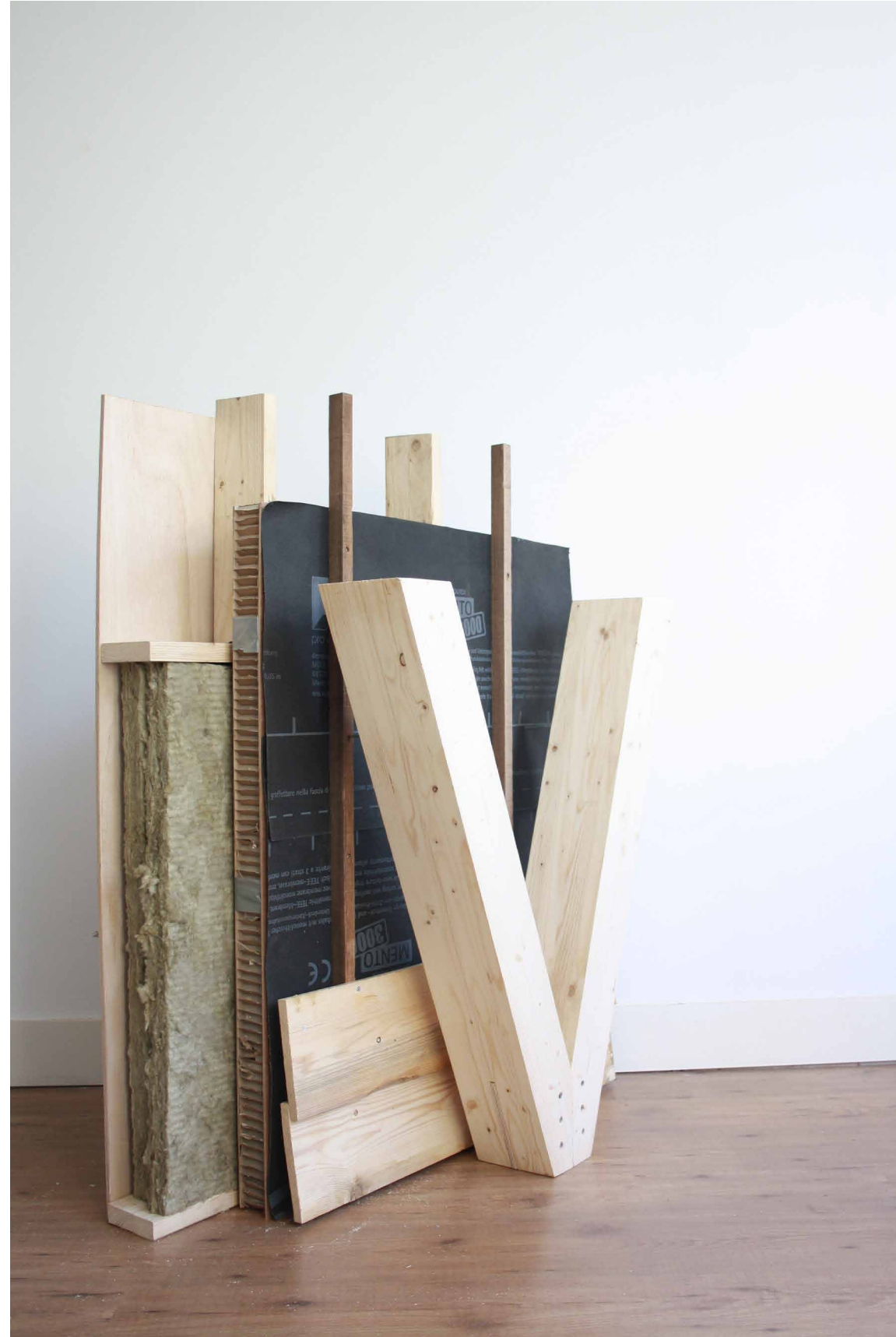


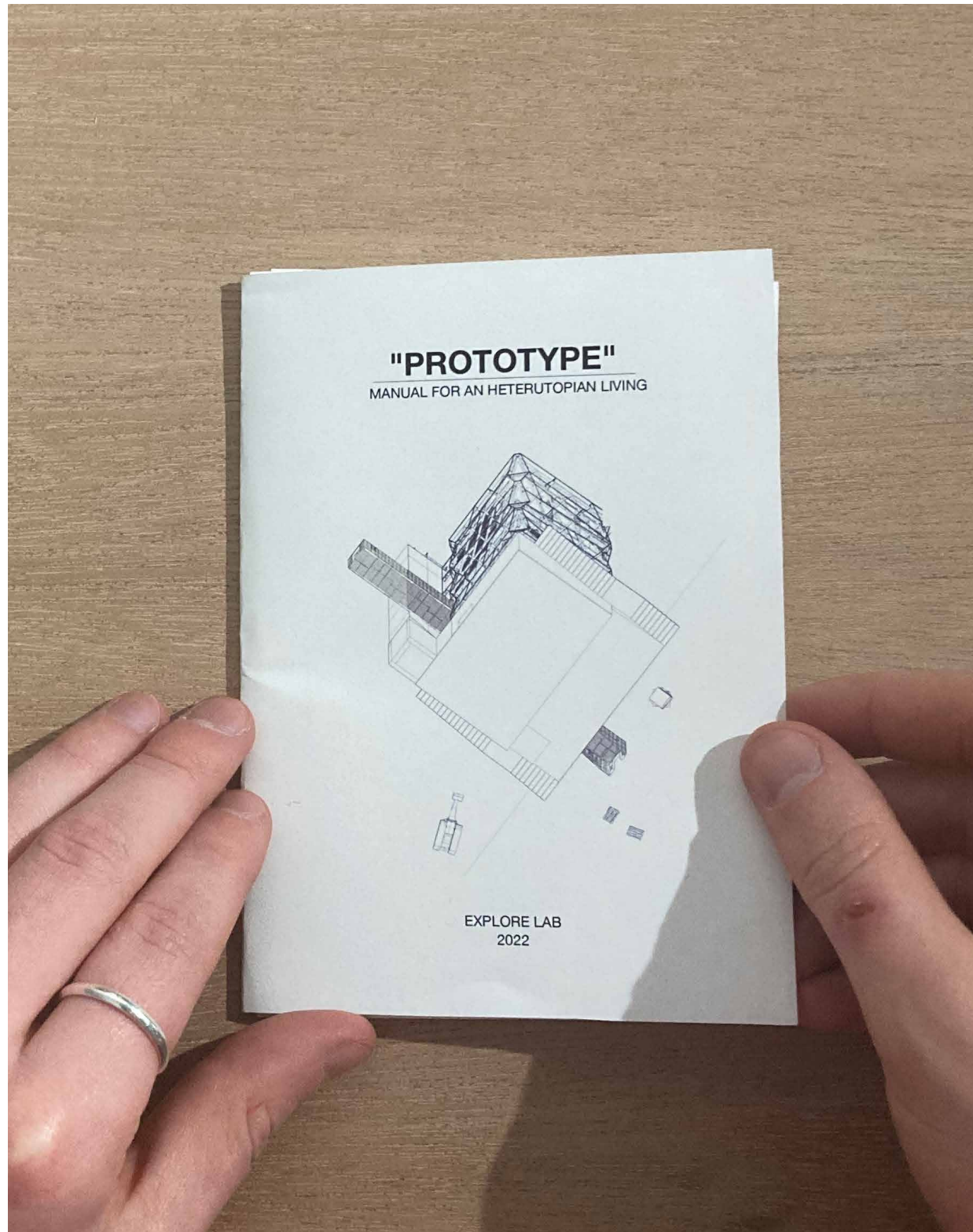


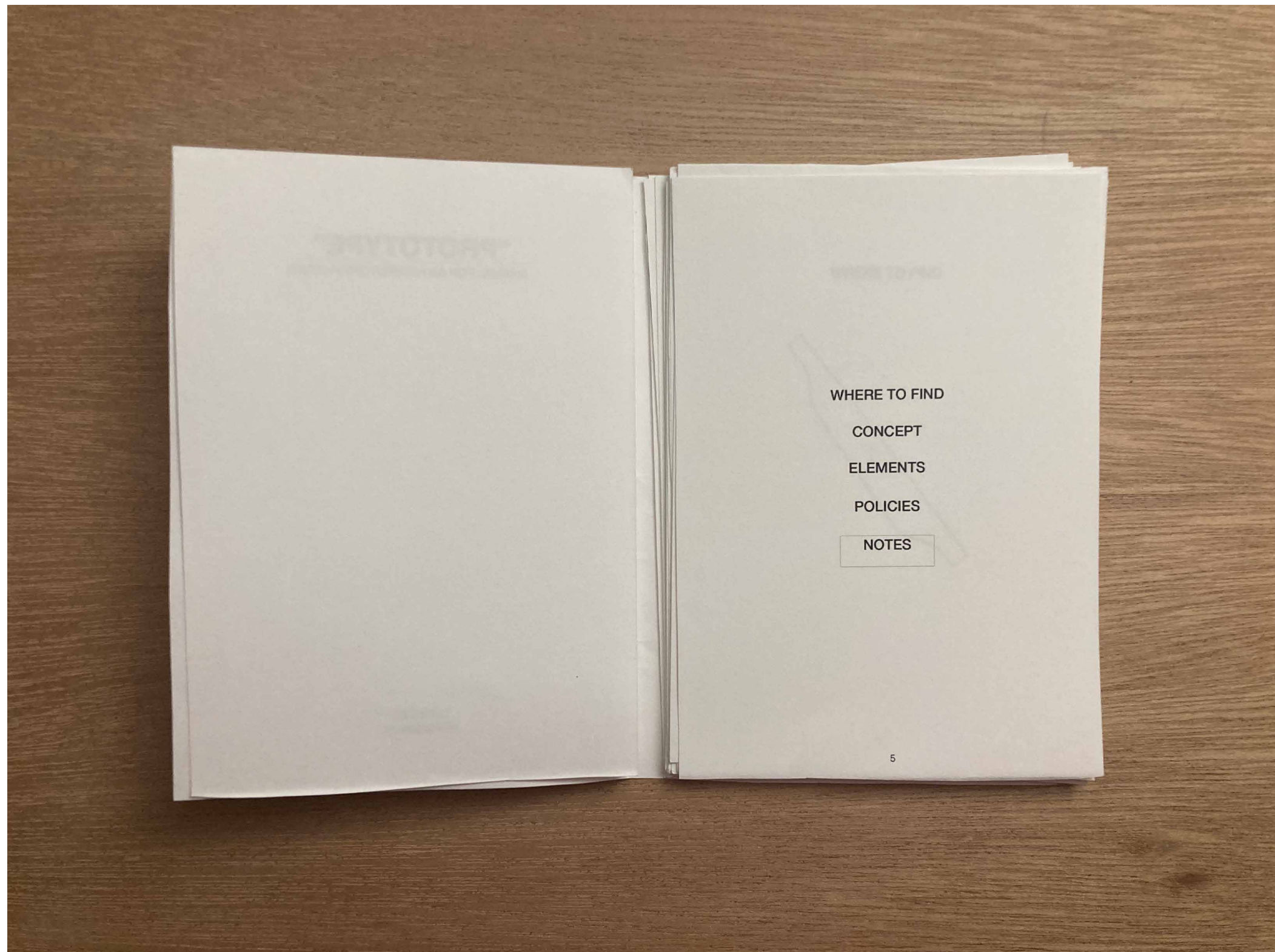




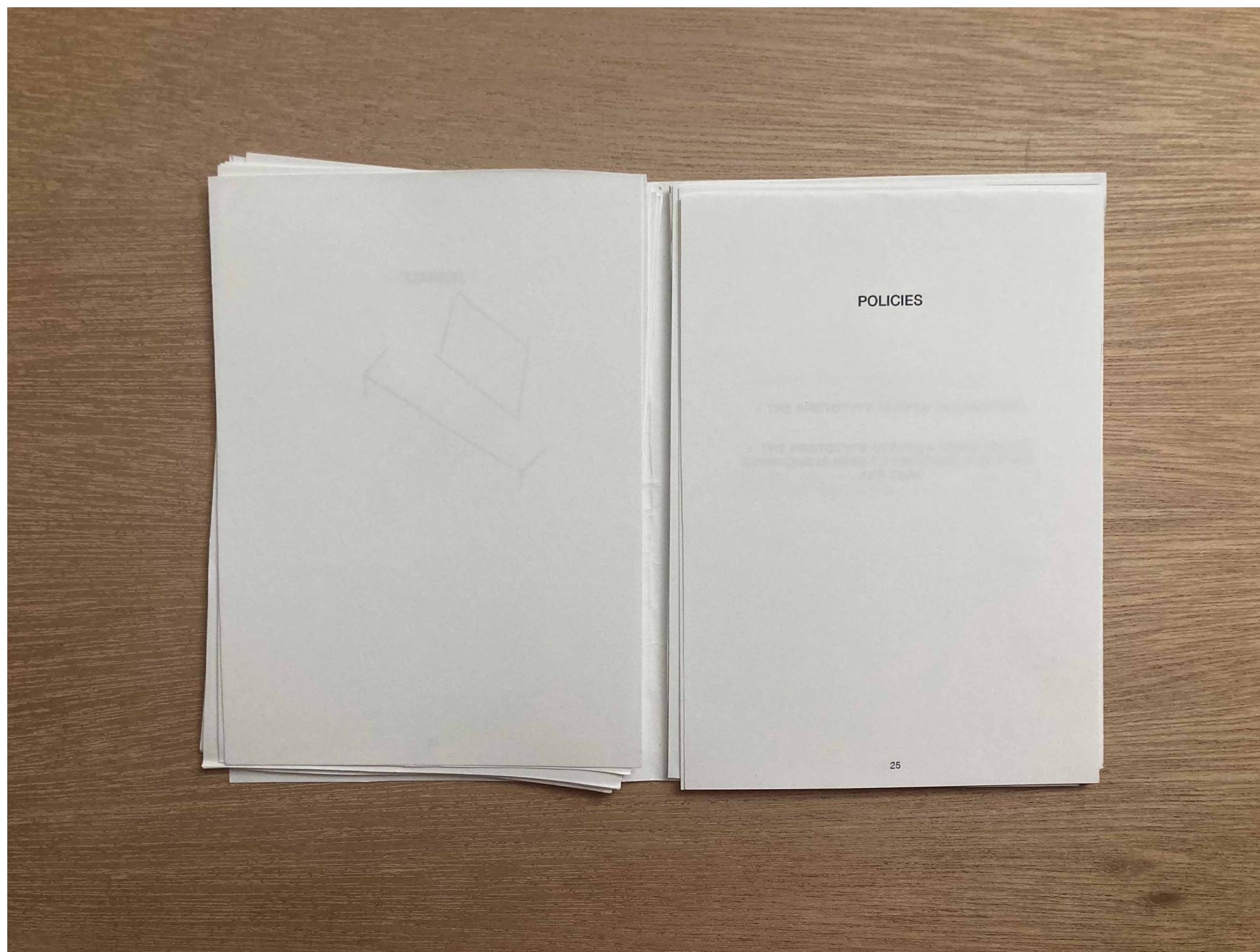


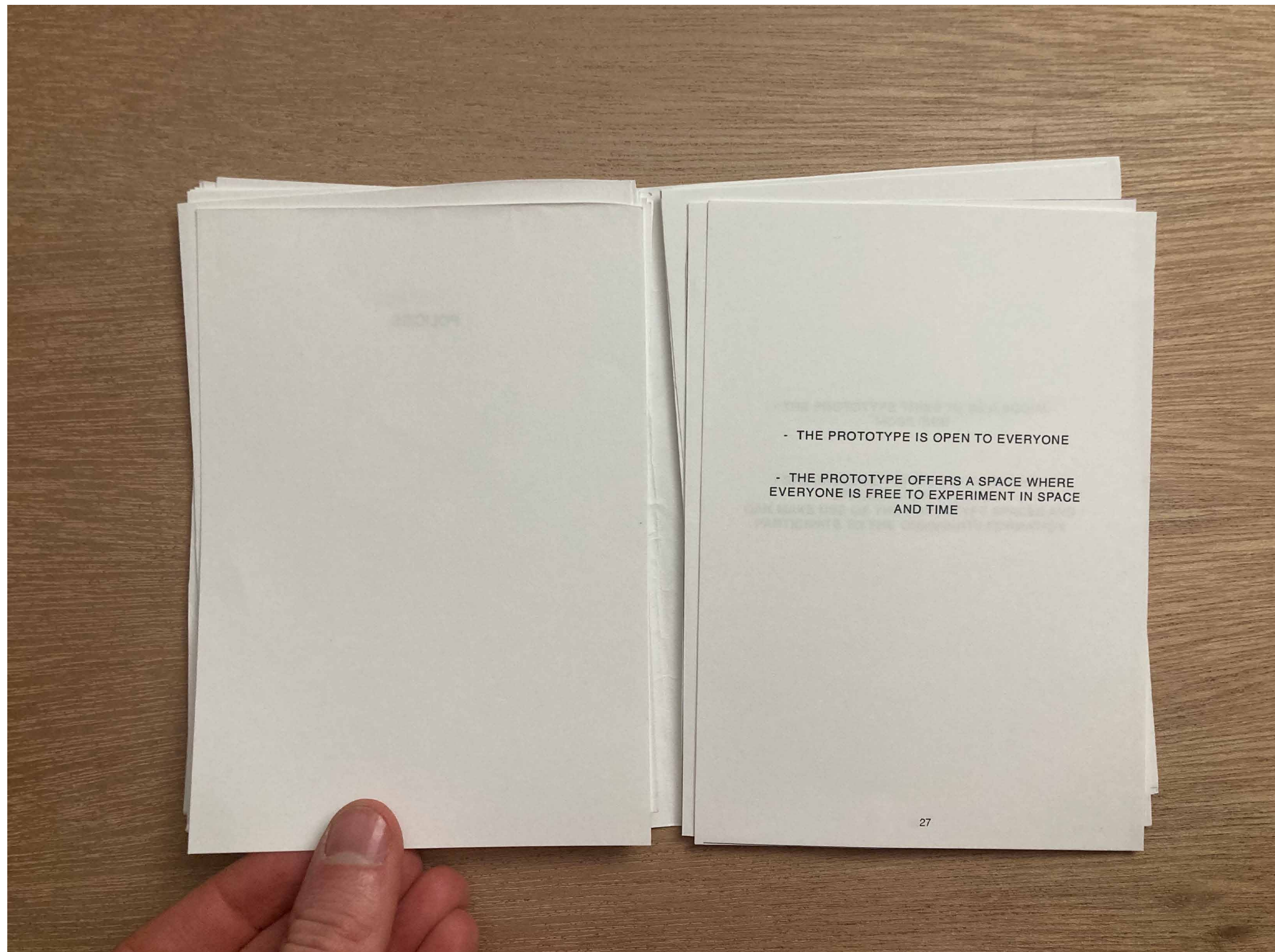


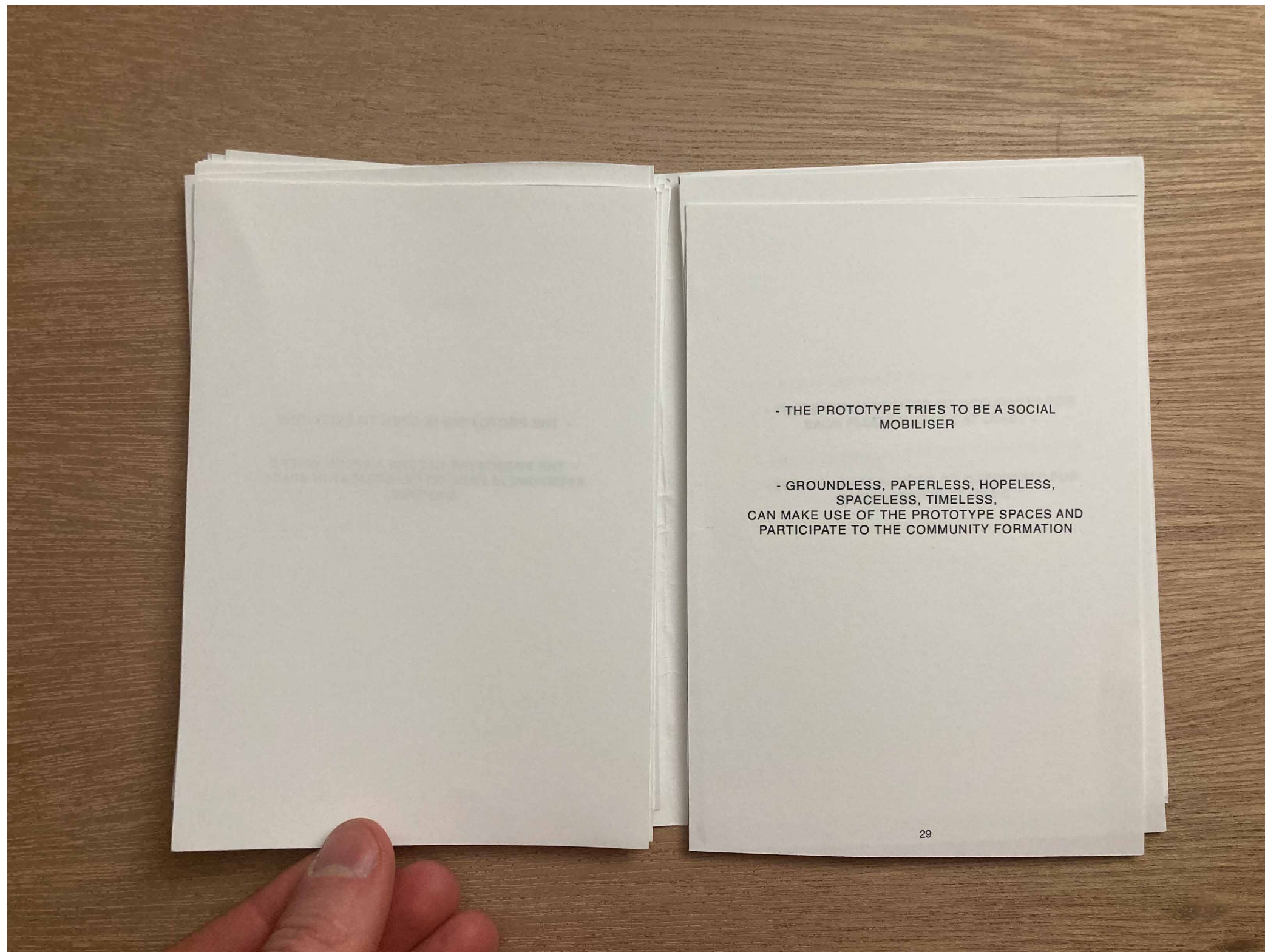






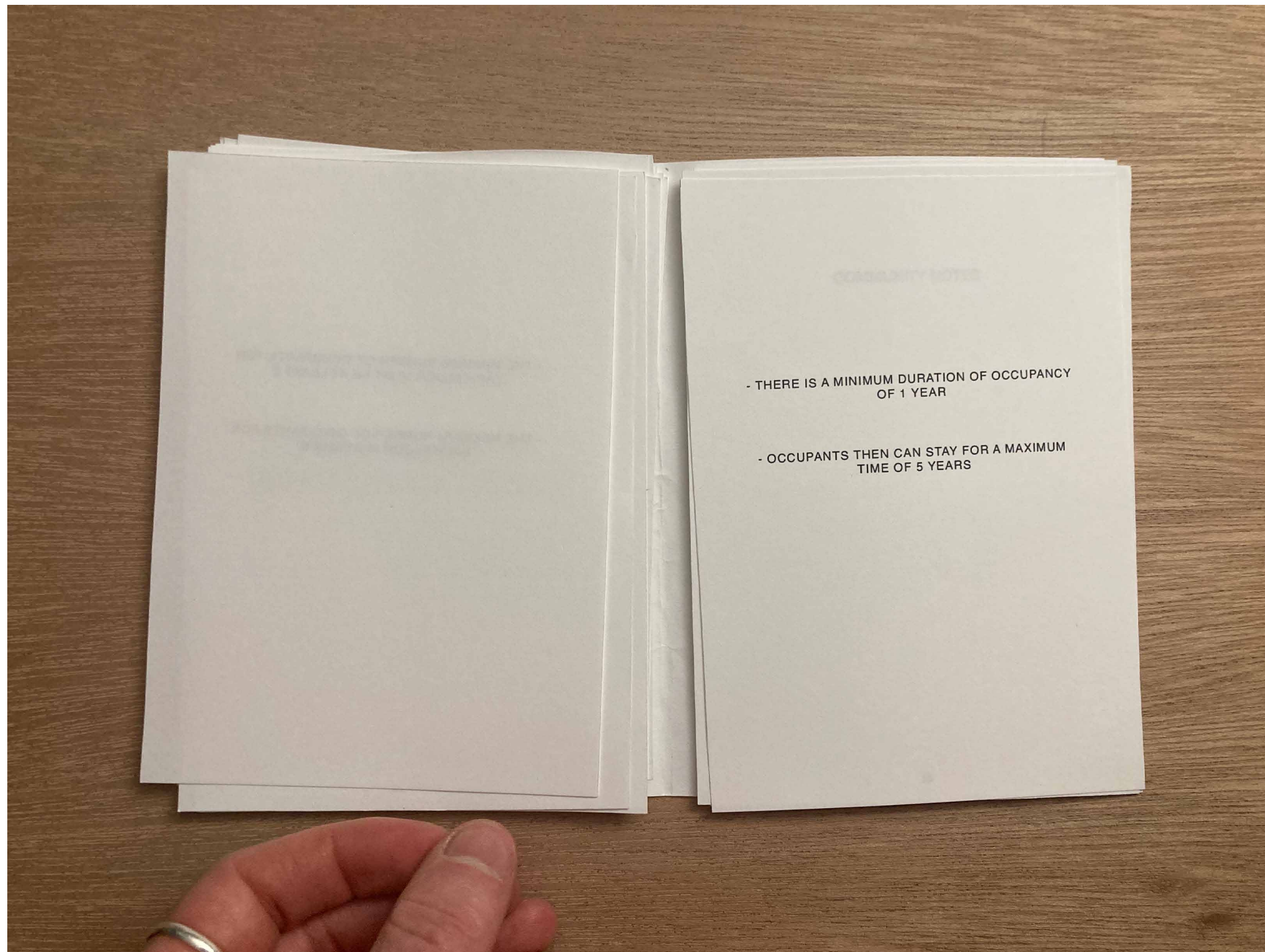


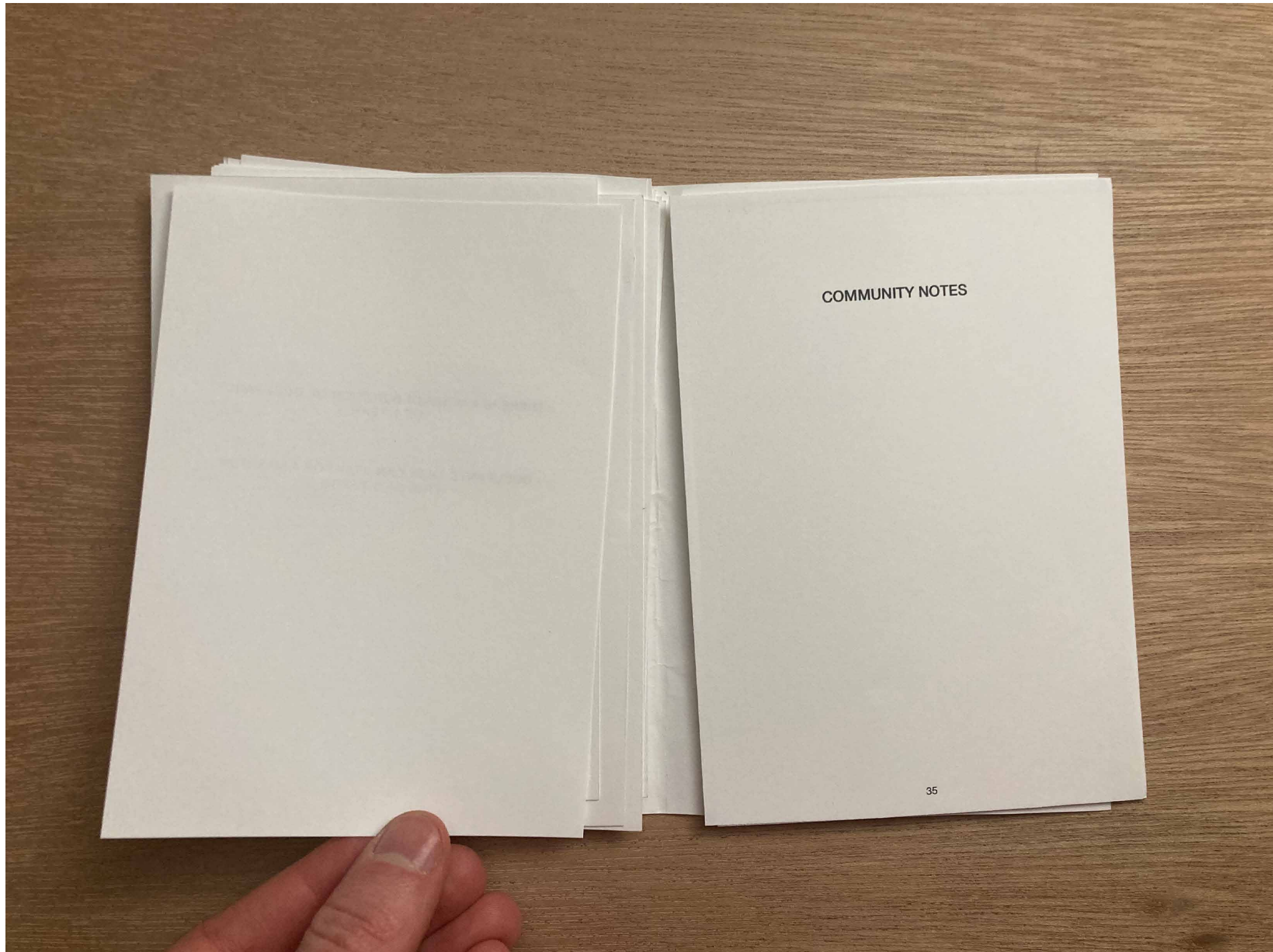




- THE PROTOTYPE TRIES TO BE A SOCIAL
MOBILISER

- GROUNDLESS, PAPERLESS, HOPELESS,
SPACELESS, TIMELESS,
CAN MAKE USE OF THE PROTOTYPE SPACES AND
PARTICIPATE TO THE COMMUNITY FORMATION





THANK YOU

