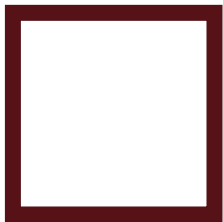
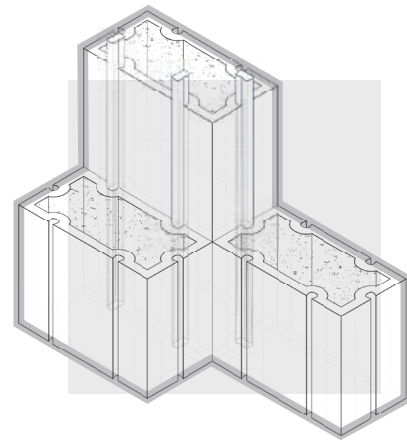


THE MICROFACTORY

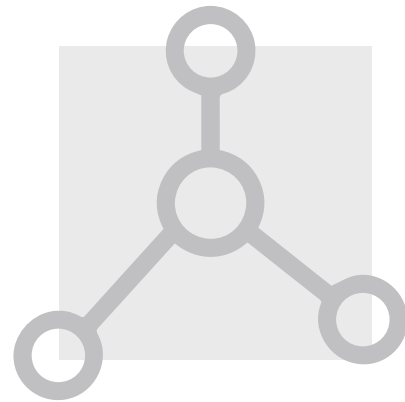


[die mikrofabriek] ▪ African/German

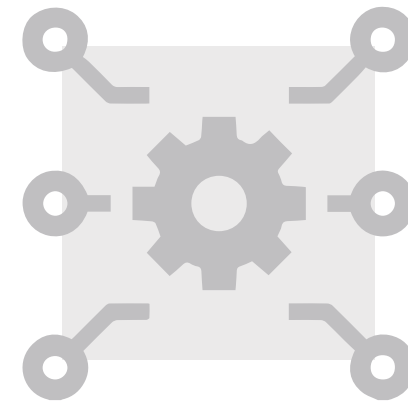
(a.) A forward-thinking design for a modular microfactory in Windhoek, Namibia, developed as part of the Kayec Institute initiative.



SEMBLA
MATERIAL

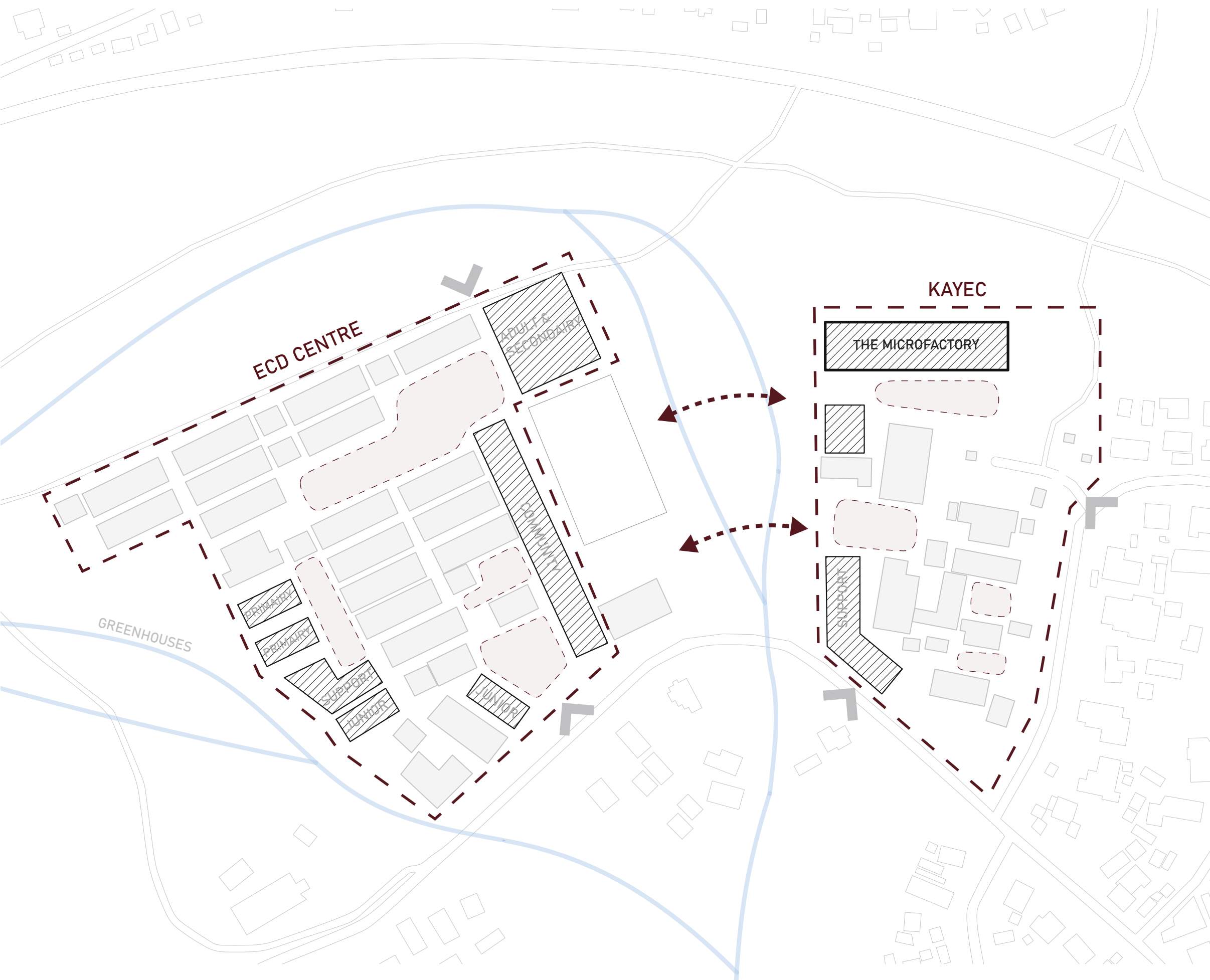


KAYEC
COMMUNITY



DESIGN
EFFICIENT AND INNOVATIVE

RELATIONSHIP TO CONTEXT
MASTERPLAN [ECD CENTRE + KAYEC]



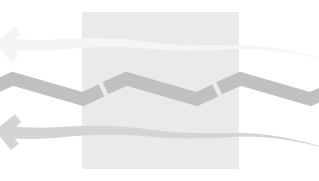
CONCEPTS



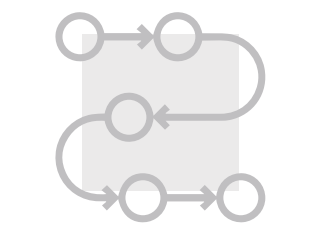
CONNECTED
GREENERY / ECD CENTRE



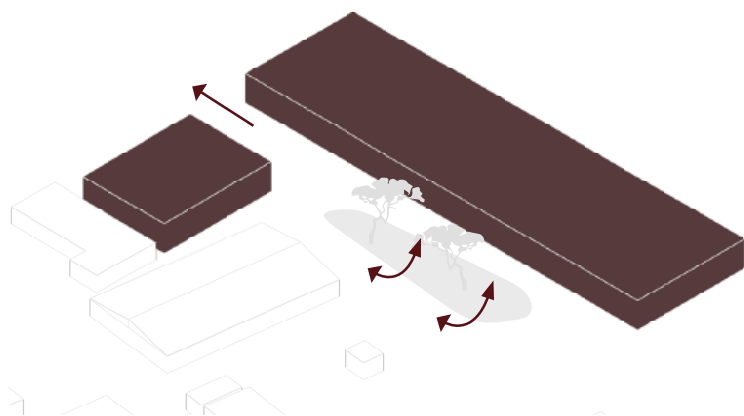
MODULAR
FLEXIBLE / DISMOUNTABLE



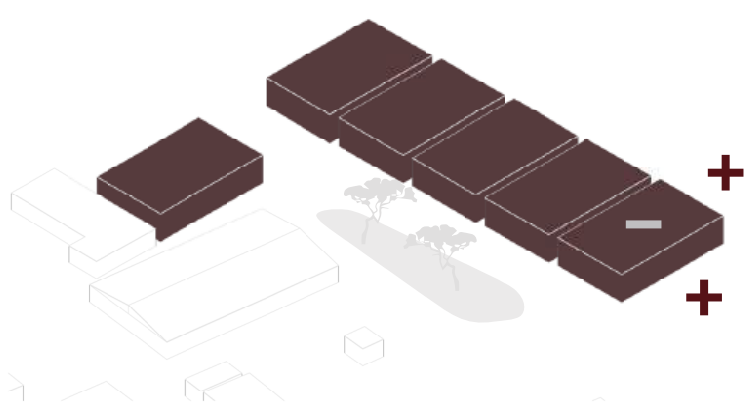
STRATEGIC DESIGN
CLIMATE / ORIENTATION



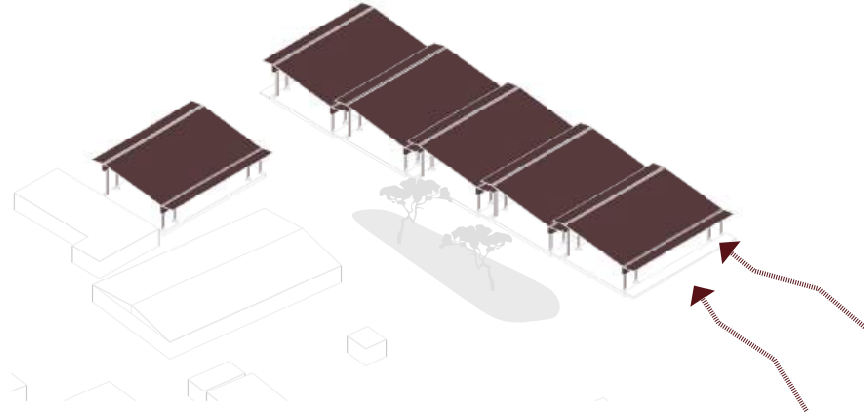
OPEN PROCES
ENGAGEMENT / INSIGHT



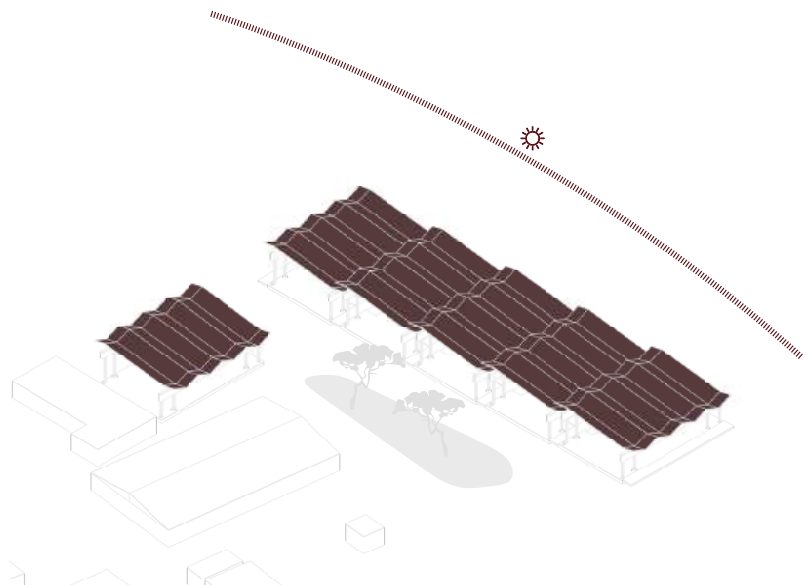
ORIENTATION
OPEN SPACE



MODULES
REPETITION



SELF-SUPPORTING ROOF
WOODEN STRUCTURE / WATER COLLECTING

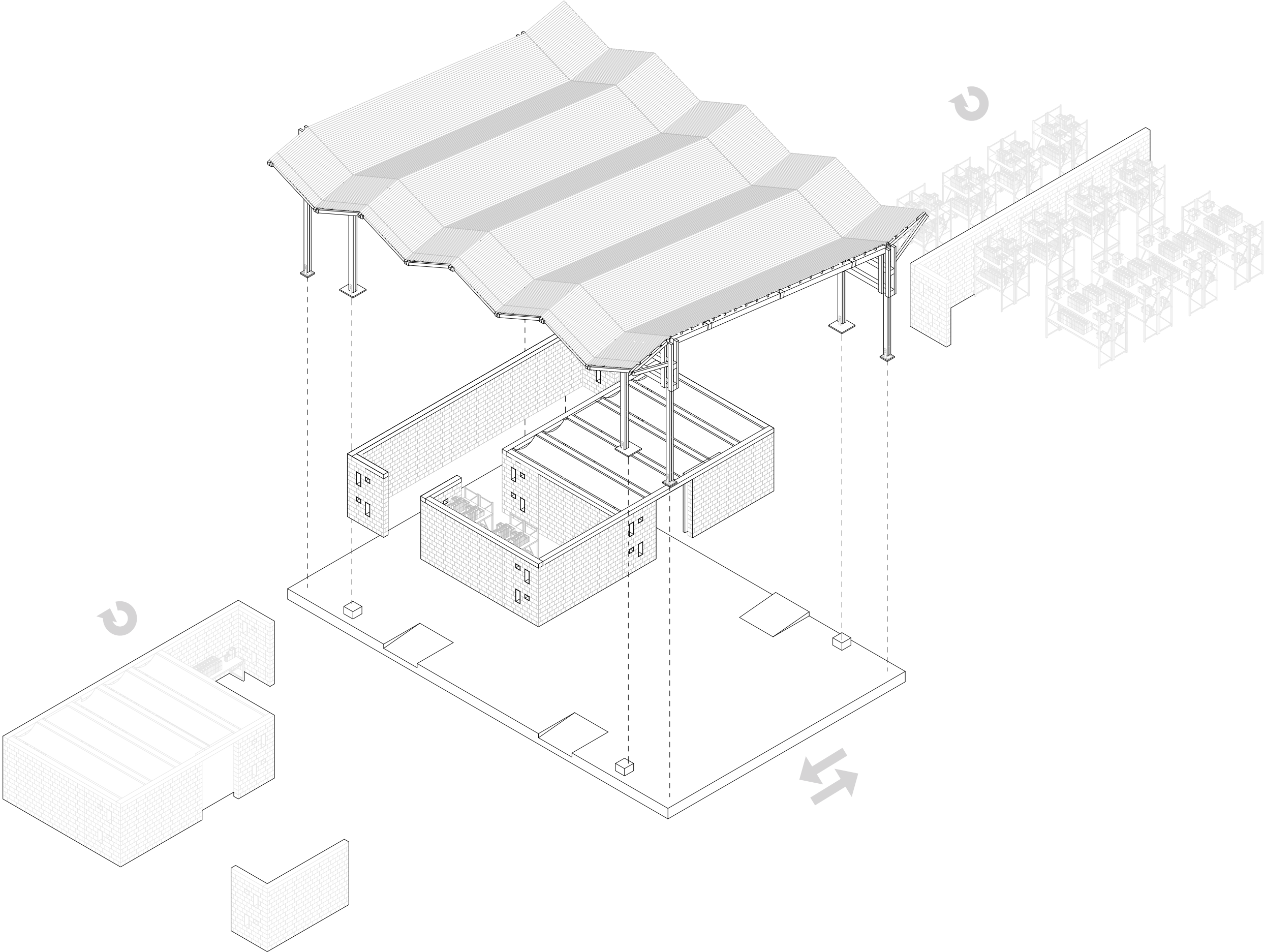


FOLDED ROOF
STIFFER STRUCTURE /
SOLAR ORIENTATION

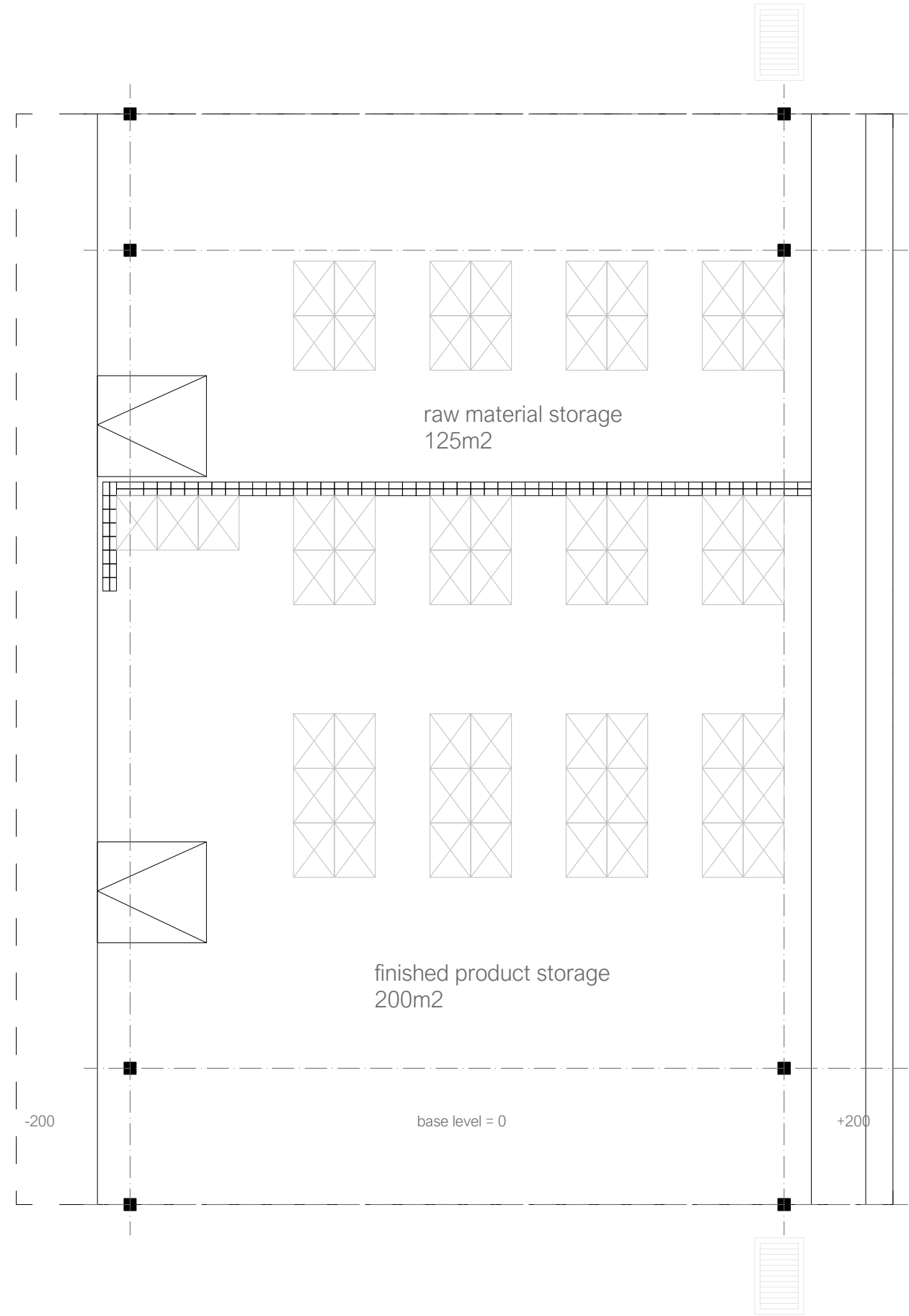


FLEXIBLE WALLS
SEMBLA BLOCKS

MODULAR PRINCIPLE
THE MODULE



THE MODULE
FLOORPLAN [1:100]



RAW MATERIAL STORAGE /
FINISHED PRODUCT STORAGE

L-shape (BASE)
“create space”



➤ **L-shape (extended)**
“wind prevention”



U-shape (2x L-shape)
“closed space”



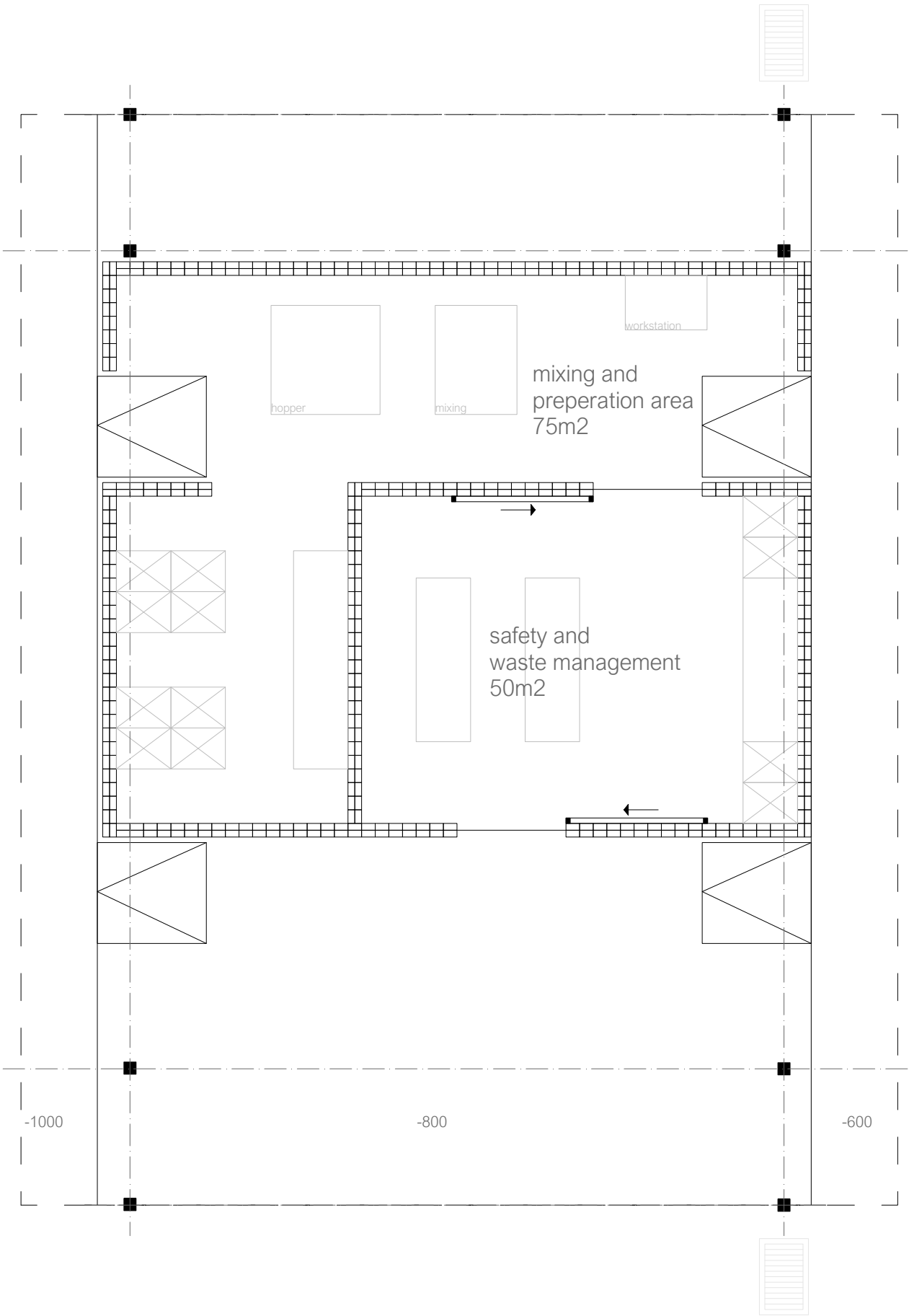
O-space (4x L-shape)
“closed space”



O-space (extended)
“double closed space”



THE MODULE
FLOORPLAN [1:100]



MIXING AND PREPERATION AREA /
SAFETY AND WASTE MANAGEMENT



L-shape (BASE)
“create space”



L-shape (extended)
“wind prevention”



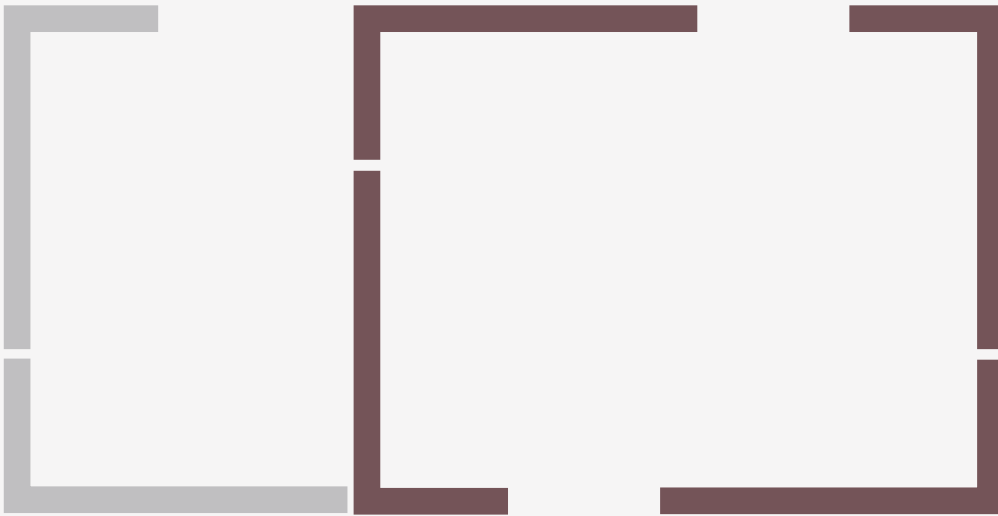
➤ **U-shape (2x L-shape)**
“closed space”

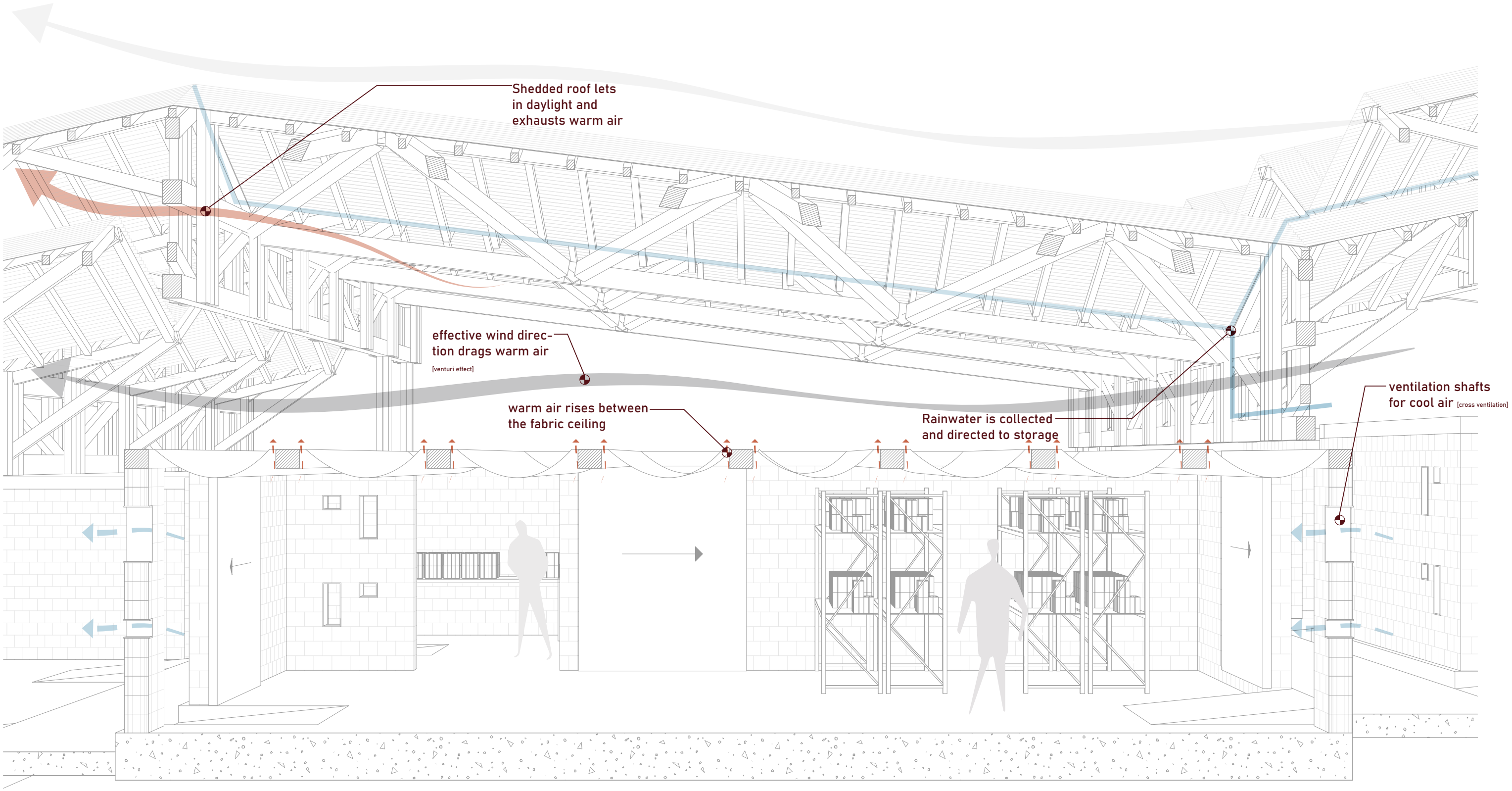


O-space (4x L-shape)
“closed space”

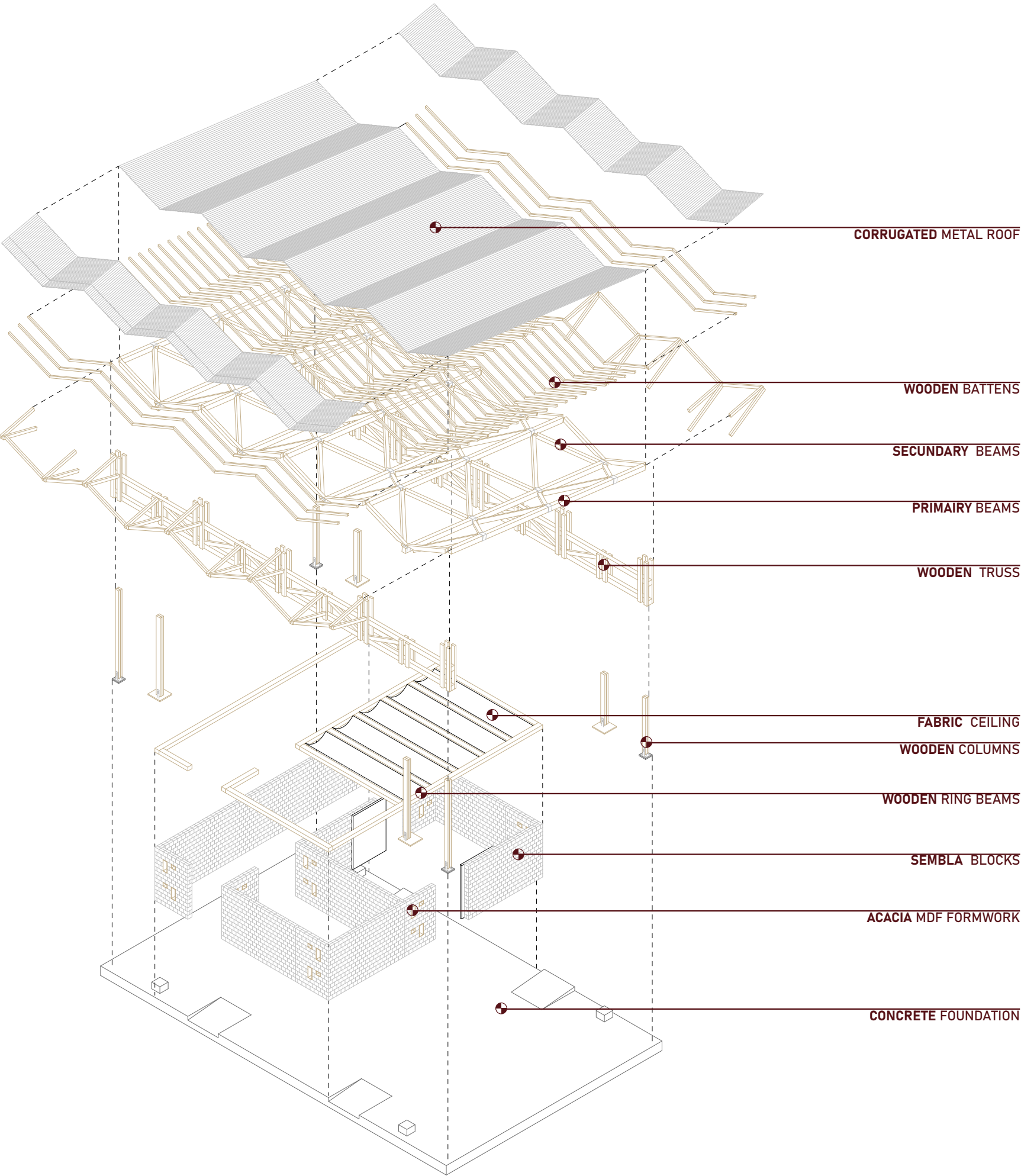


➤ **O-space (extended)**
“double closed space”

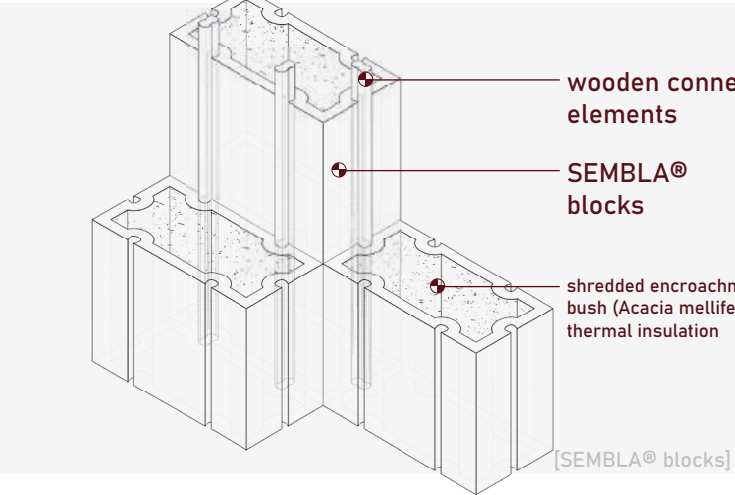
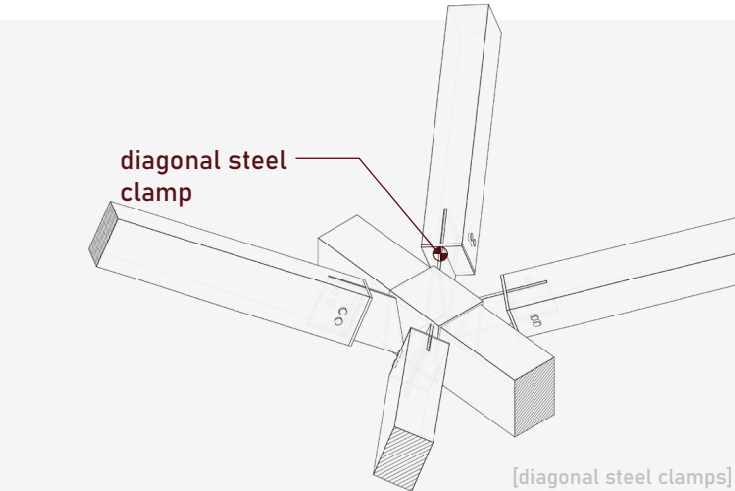
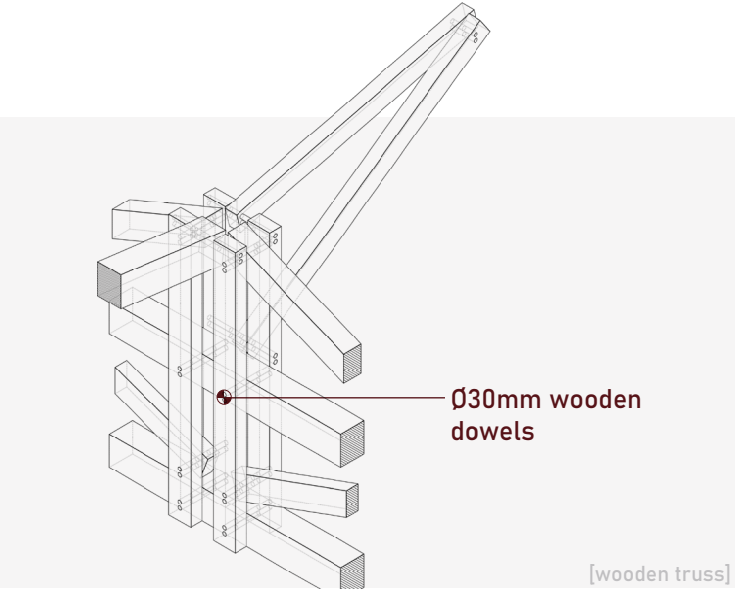




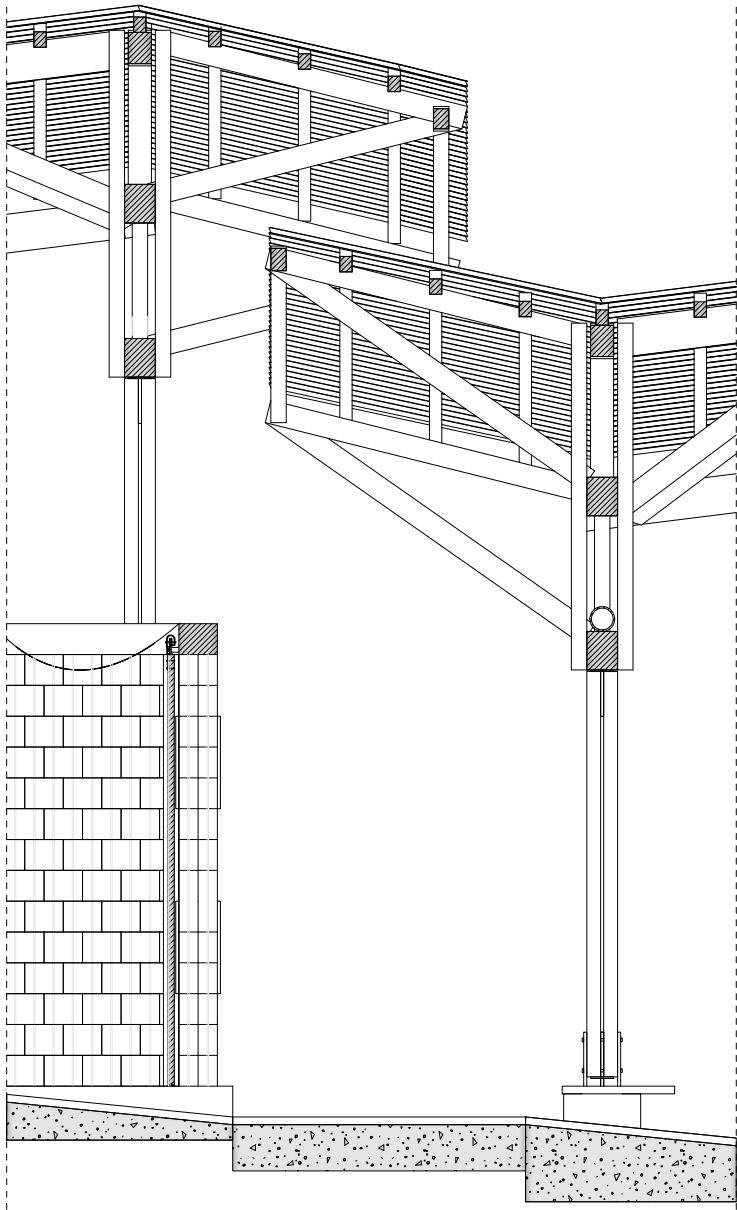
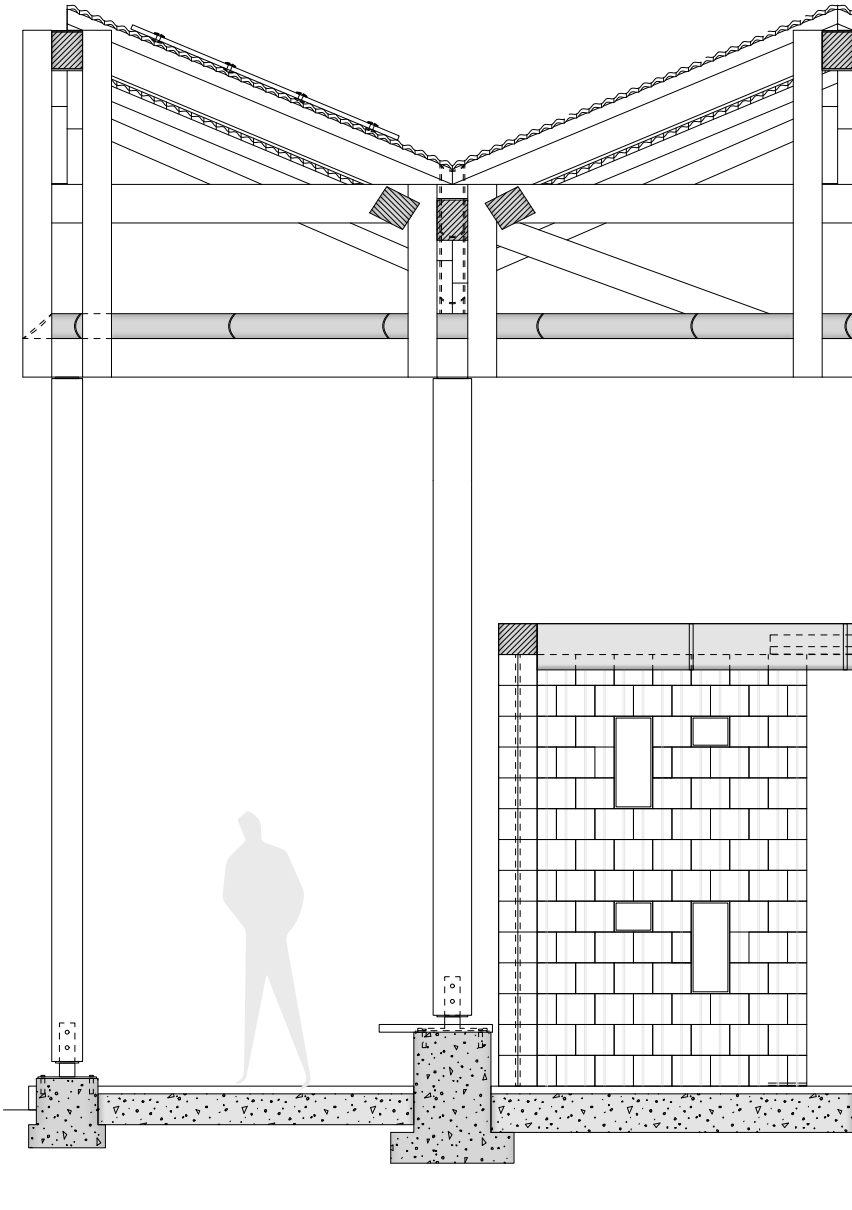
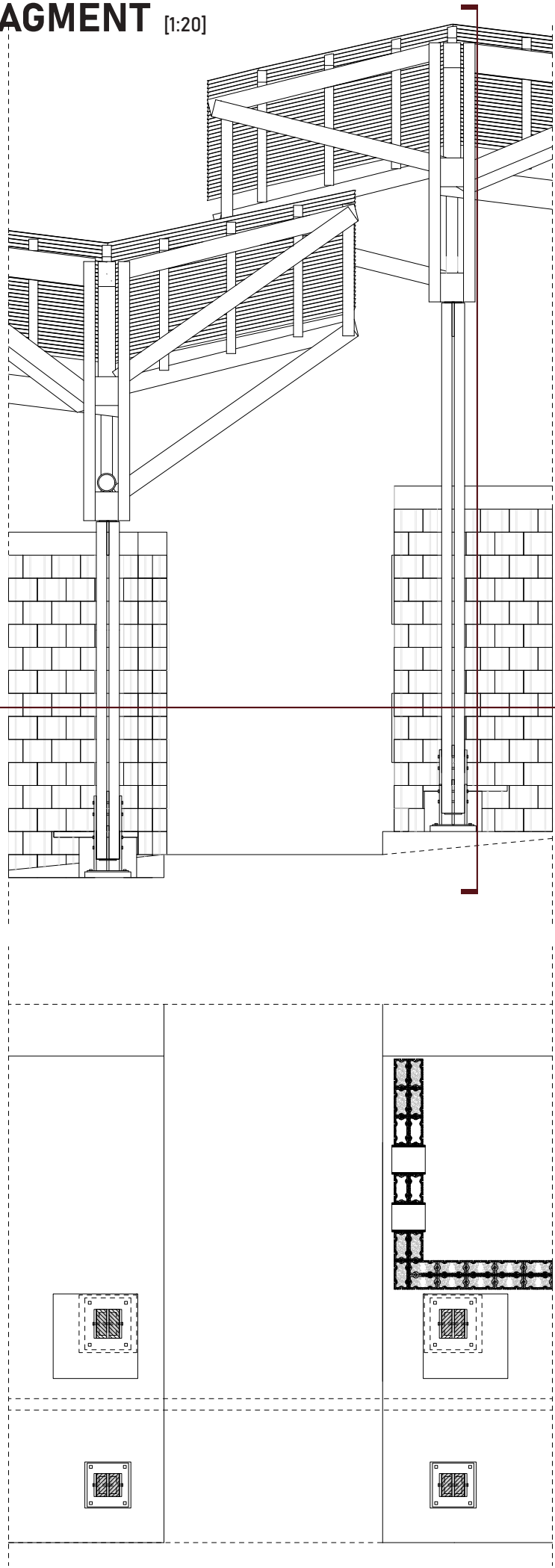
STRUCTURAL SYSTEM
ASSEMBLY [CONSTRUCTION]



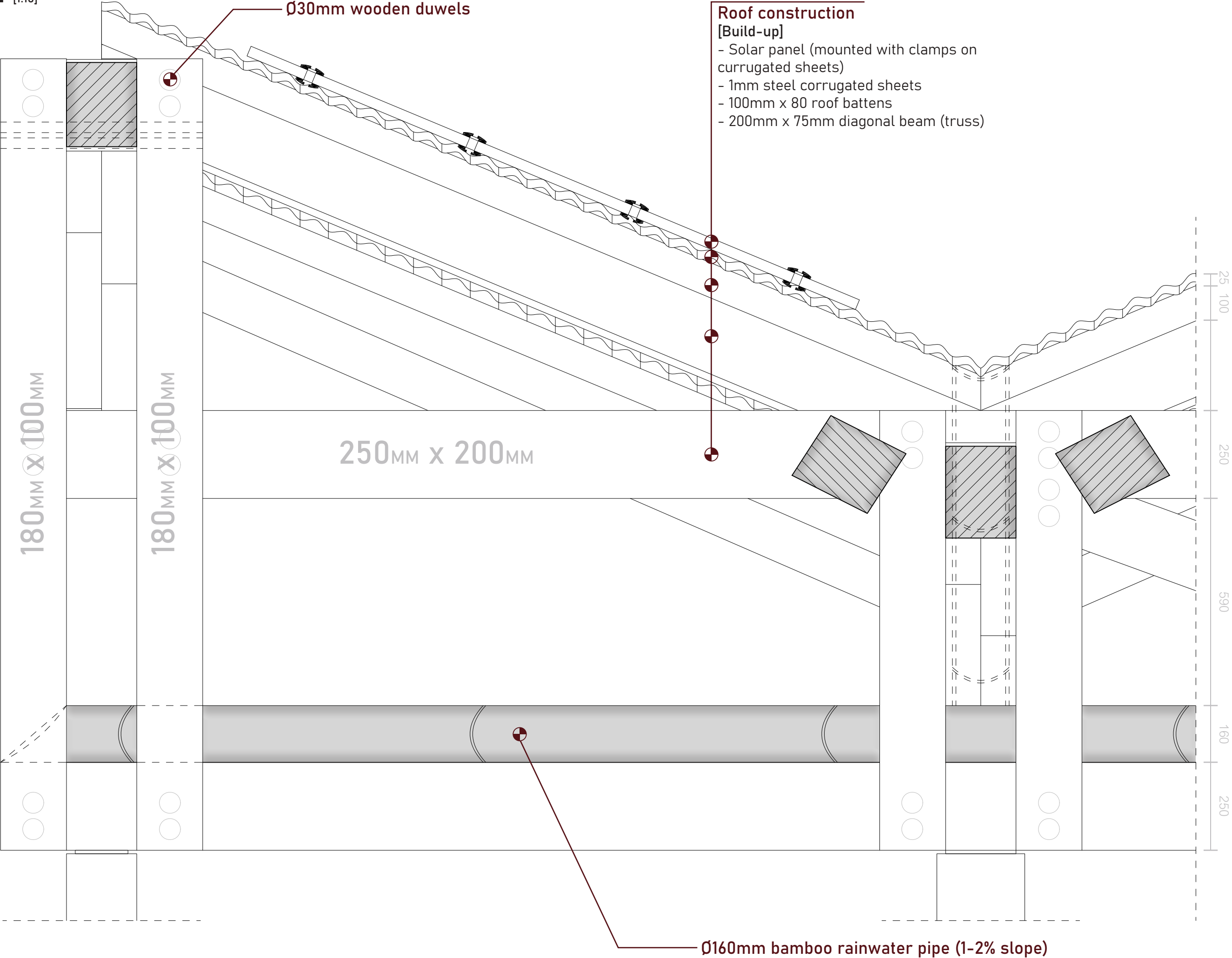
CONSTRUCTION DETAILS
CONNECTION DETAIL



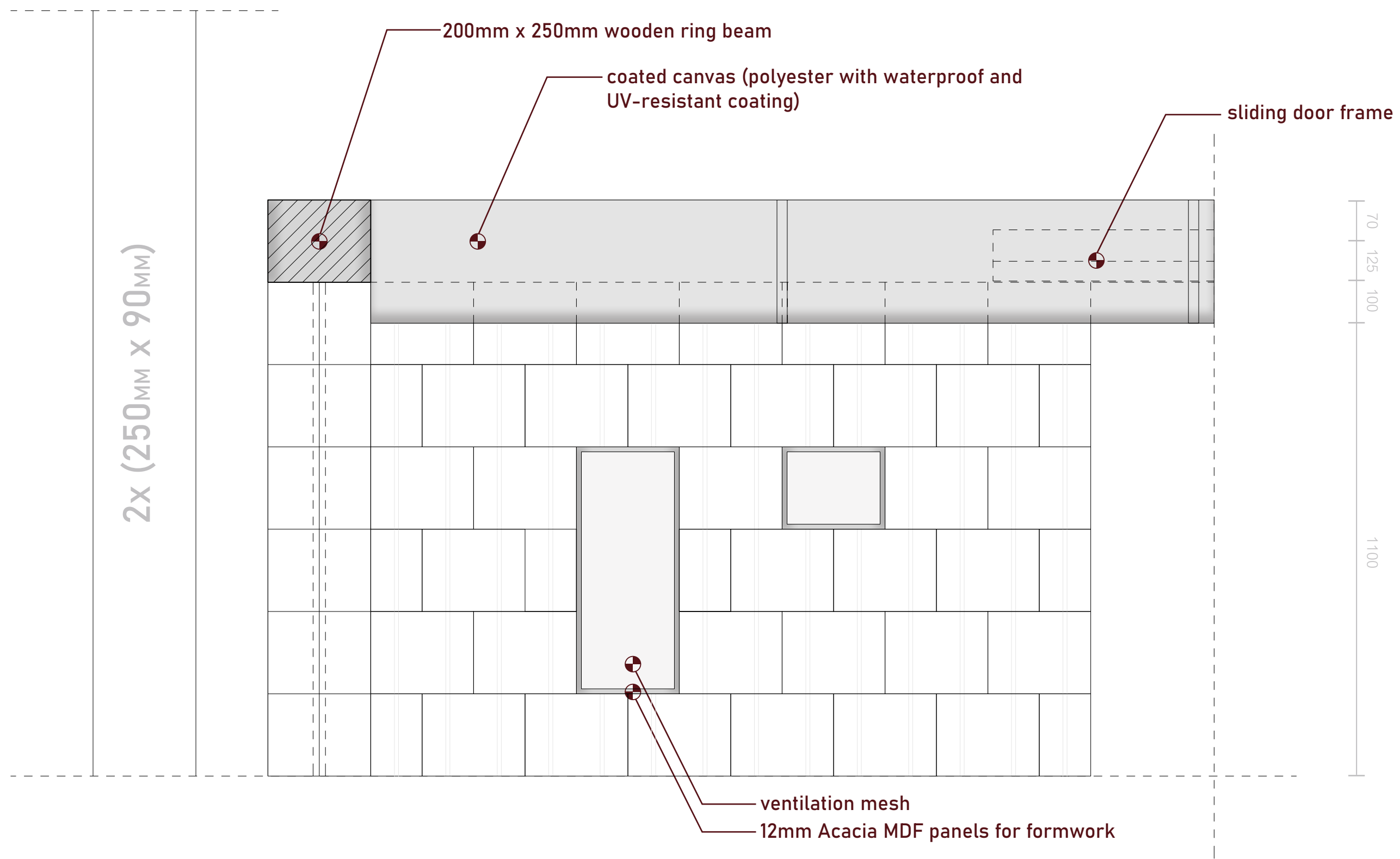
CONSTRUCTION DETAILS
FACADE FRAGMENT [1:20]

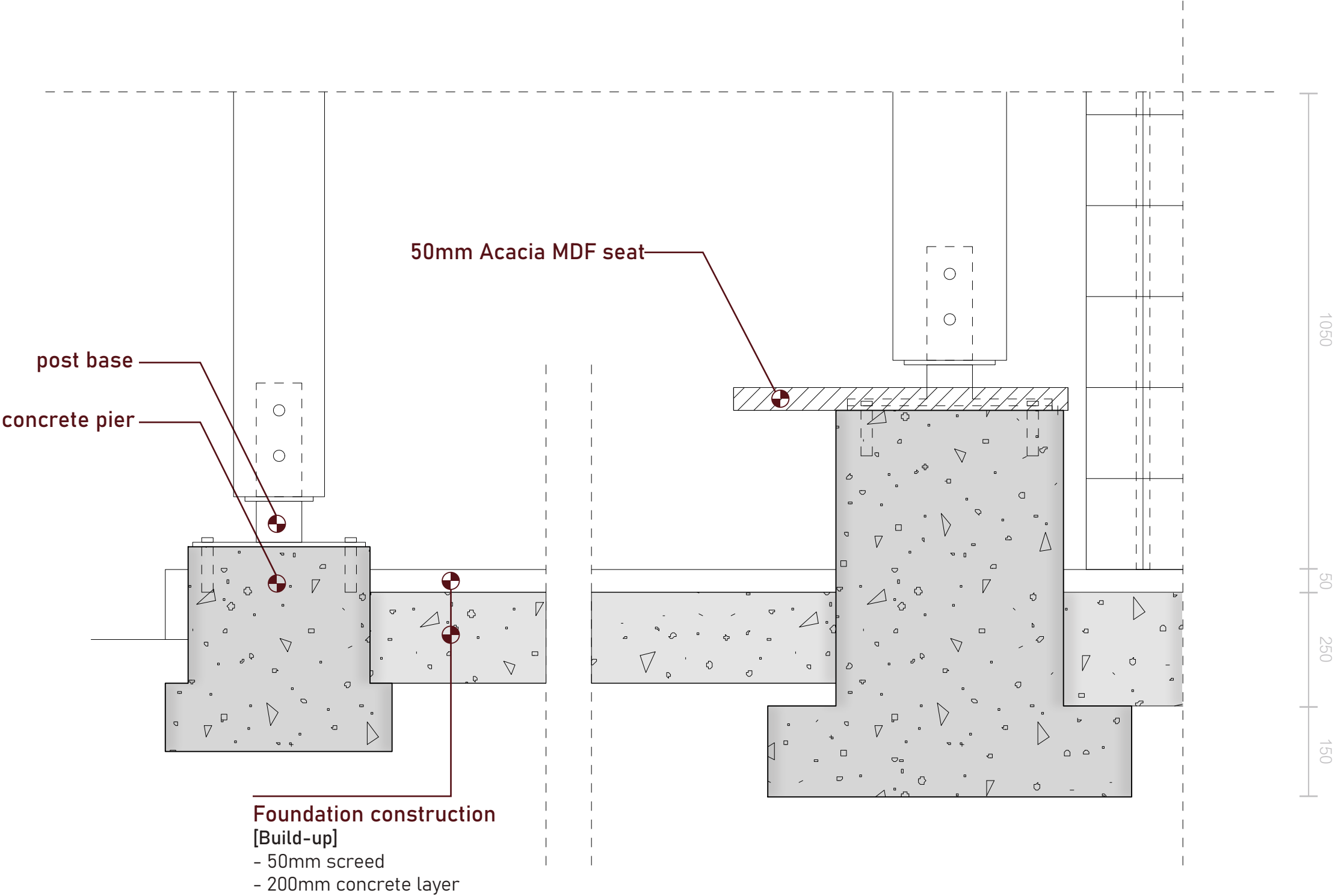


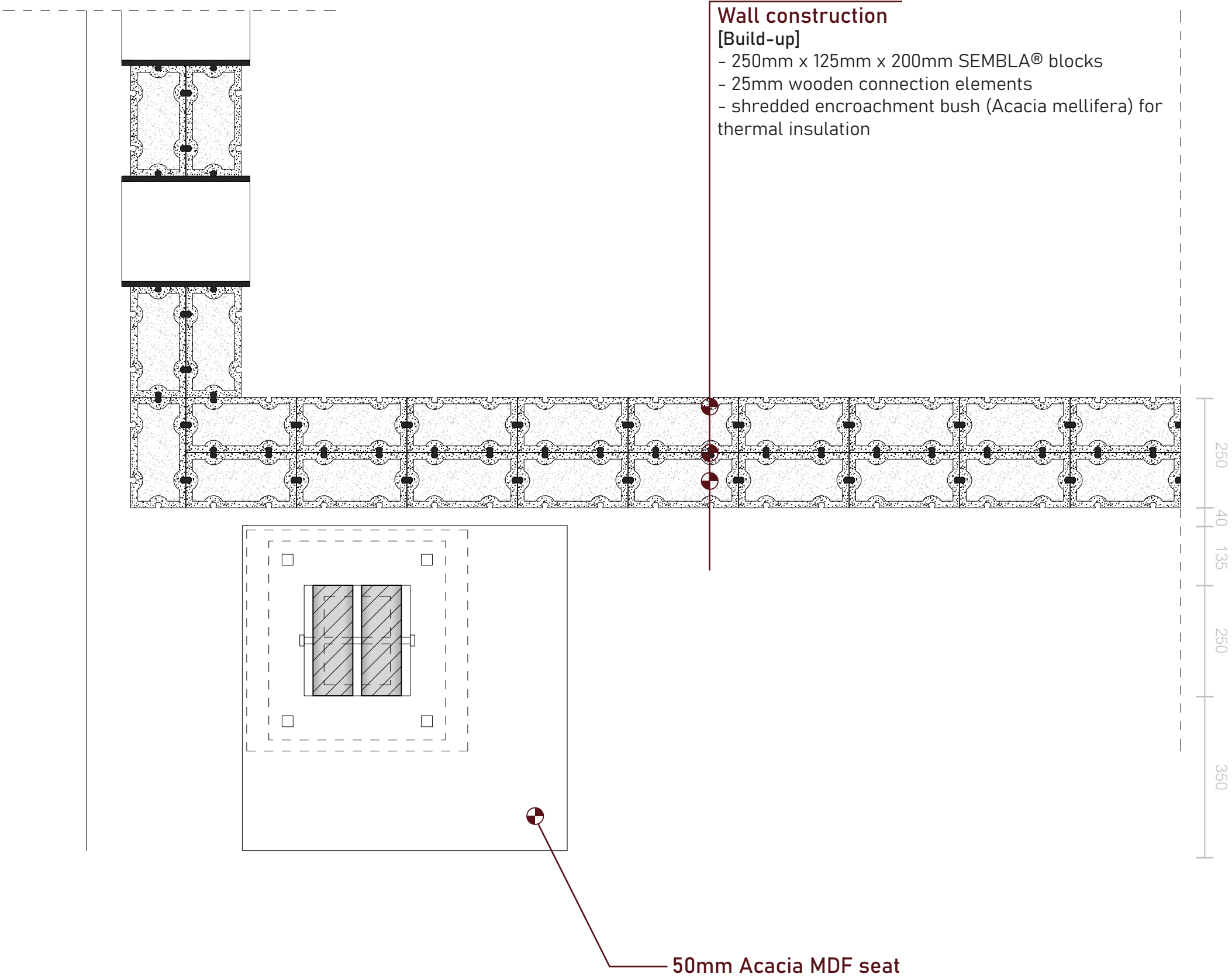
CONSTRUCTION DETAILS
1:5 ROOF EDGE [1:10]



CONSTRUCTION DETAILS
1:5 WALL-CEILING [1:10]



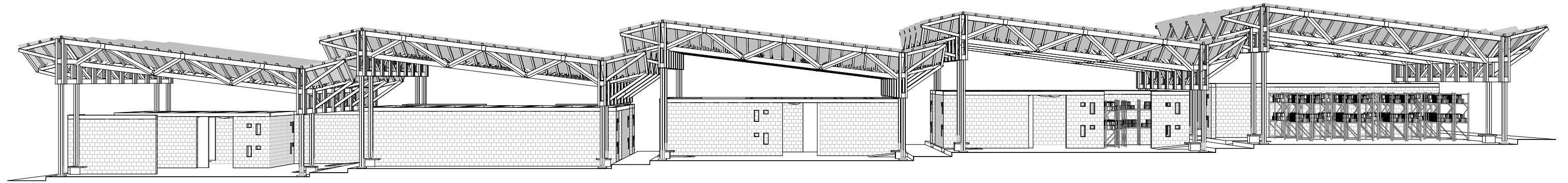




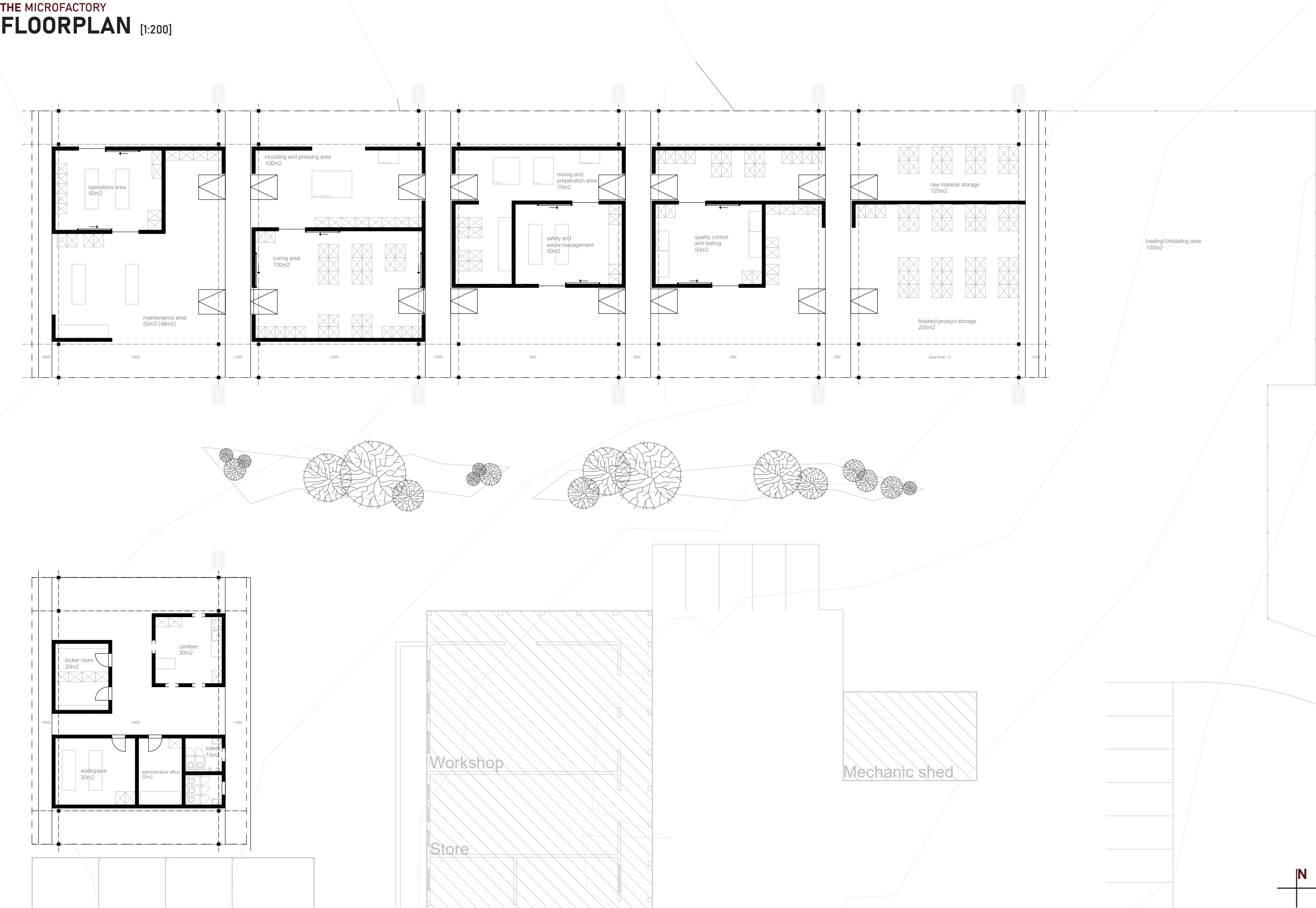


HEIGHT DIFFERENCE

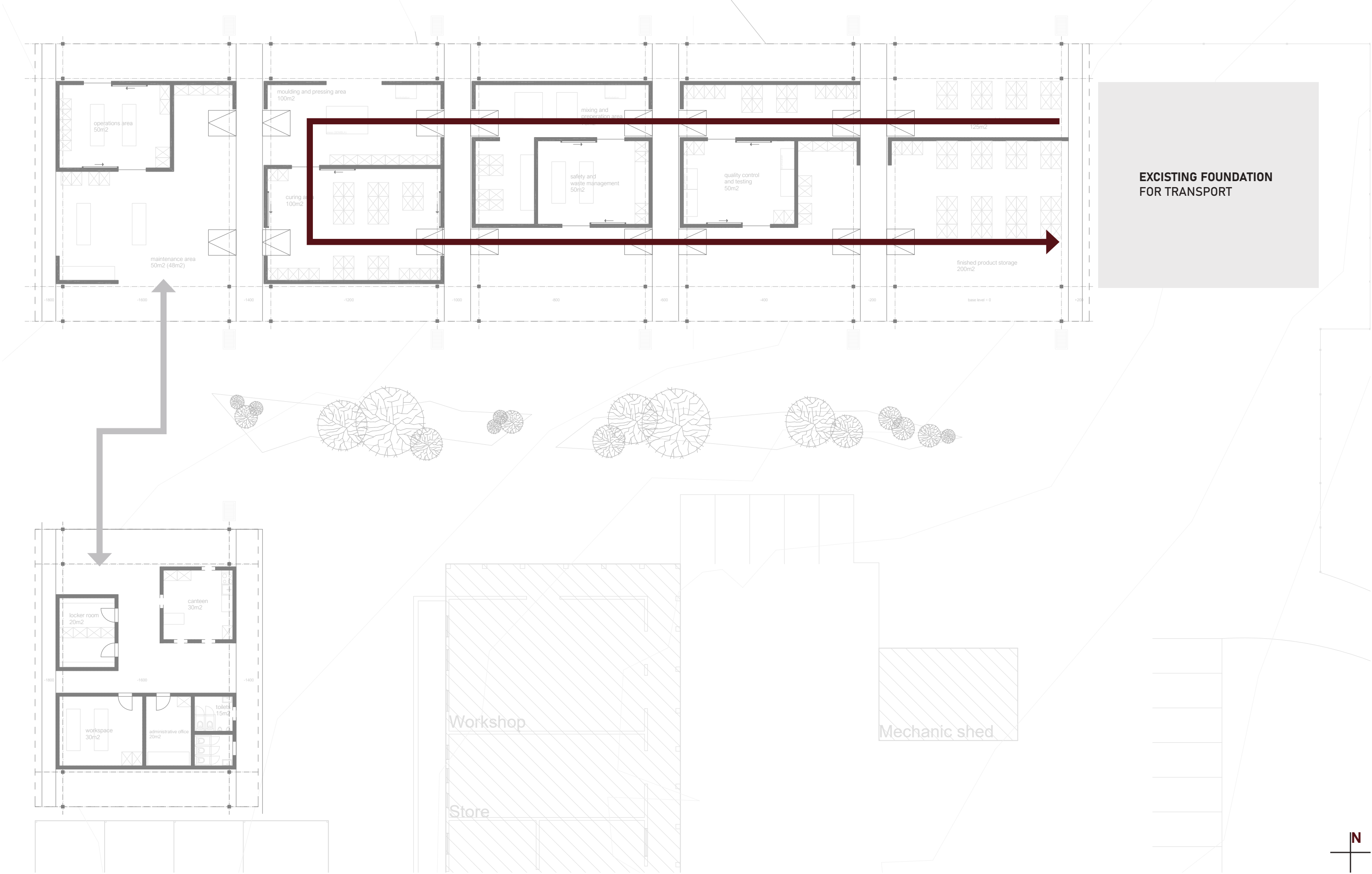
INTERCONNECTION [ELEVATION]

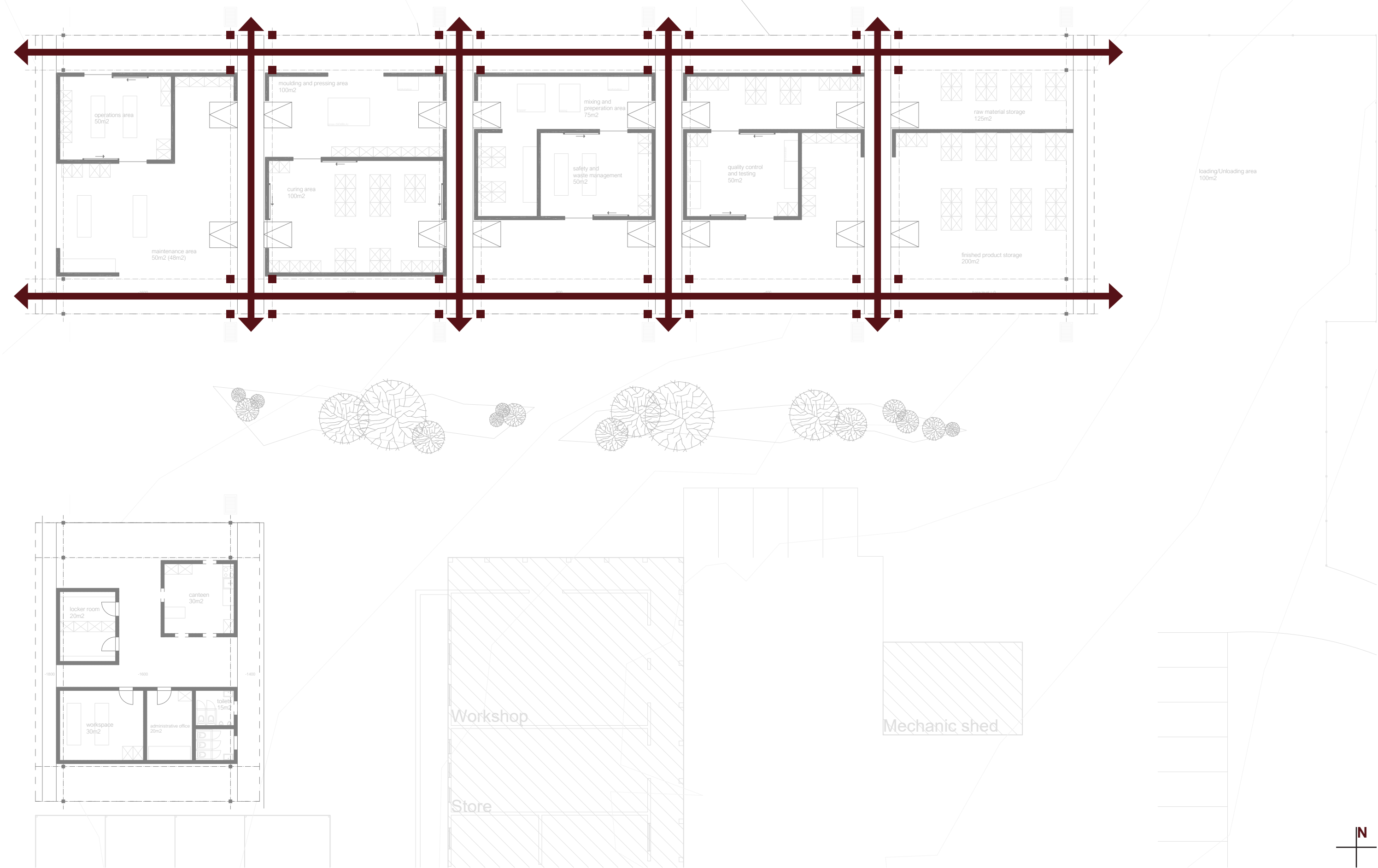


THE MICROFACTORY
FLOORPLAN [1:200]



THE MICROFACTORY
FACTORY PROCESS [1:200]

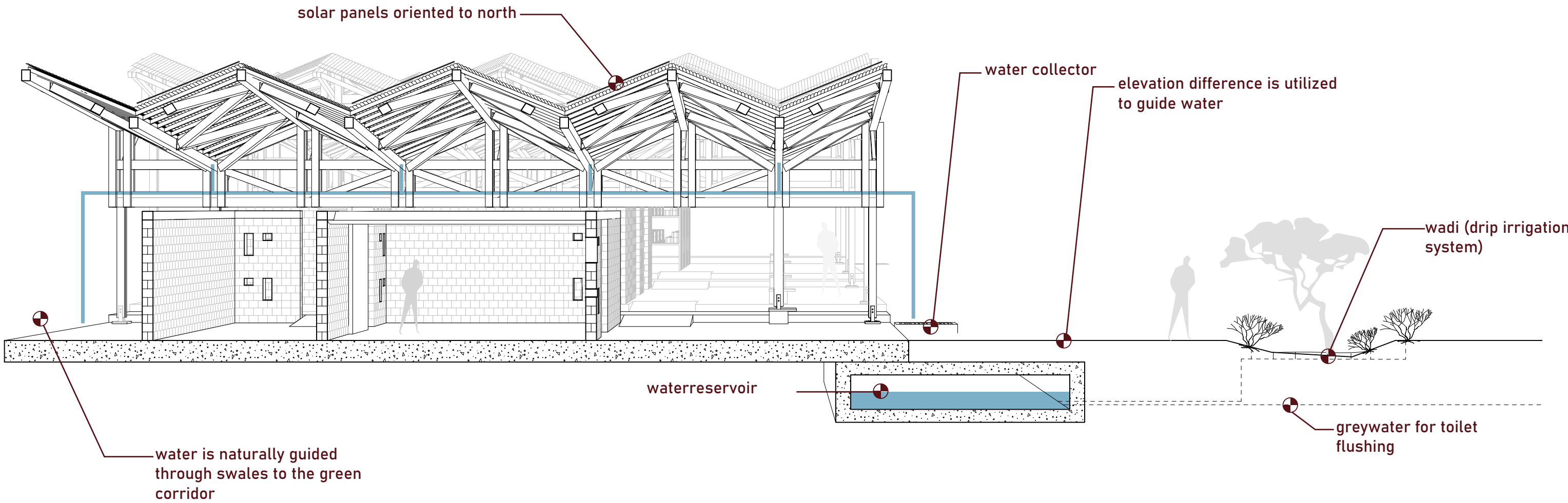




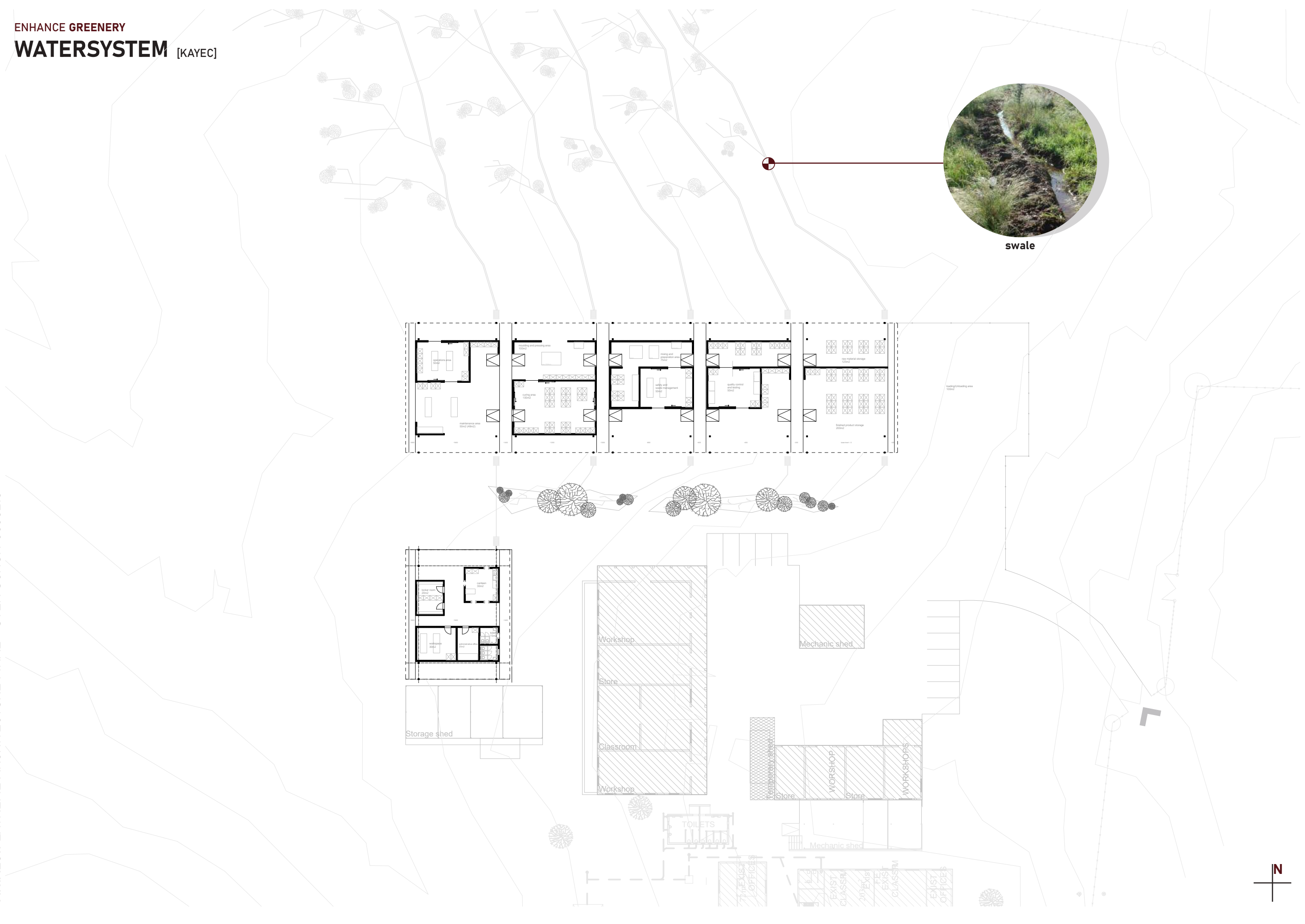
THE MODULE
FACTORY PROCESS [FINISHED PRODUCT STORAGE]



WATERSYSTEM [SECTION]



ENHANCE GREENERY
WATERSYSTEM [KAYEC]





REFLECTION