COURTYARD PAVILION

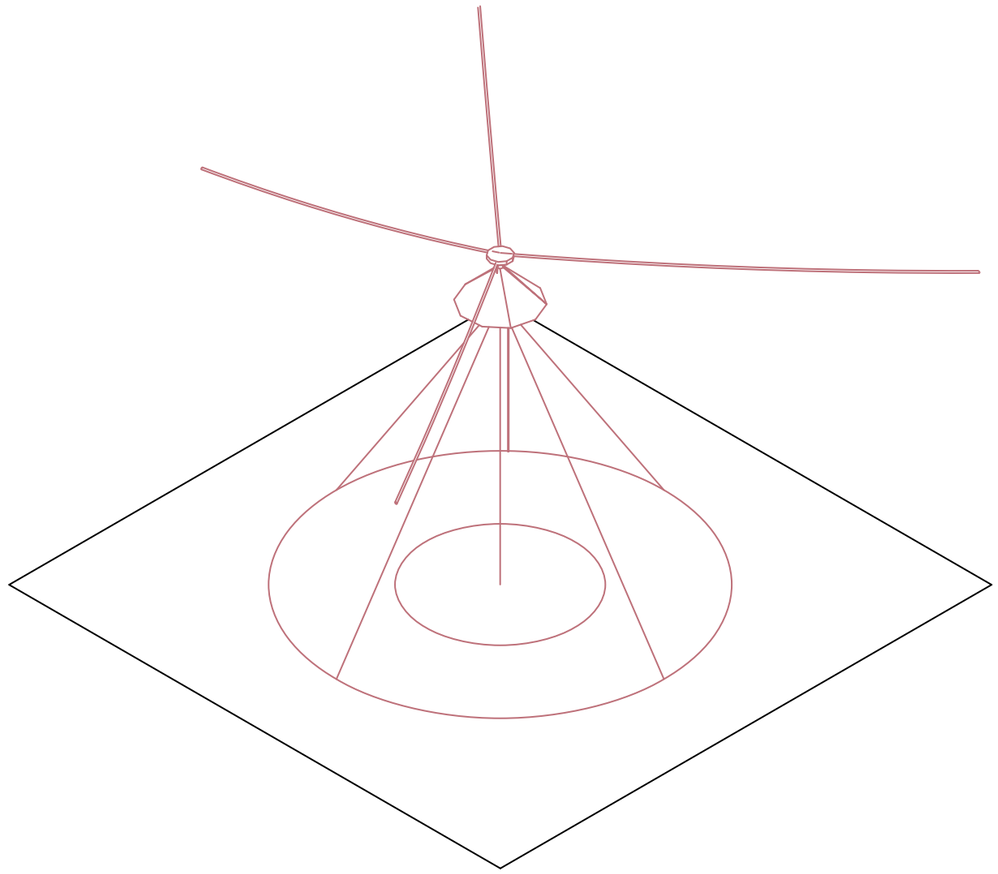
CRAFTING TALLINN

Handcraft community located in the historic center.

INTERACTIVE OBJECTS

Many of these objects may seem rather simple to begin with, but when you analyze their purpose in architecture, you start to recognize how they offer us control over the spaces we inhabit:

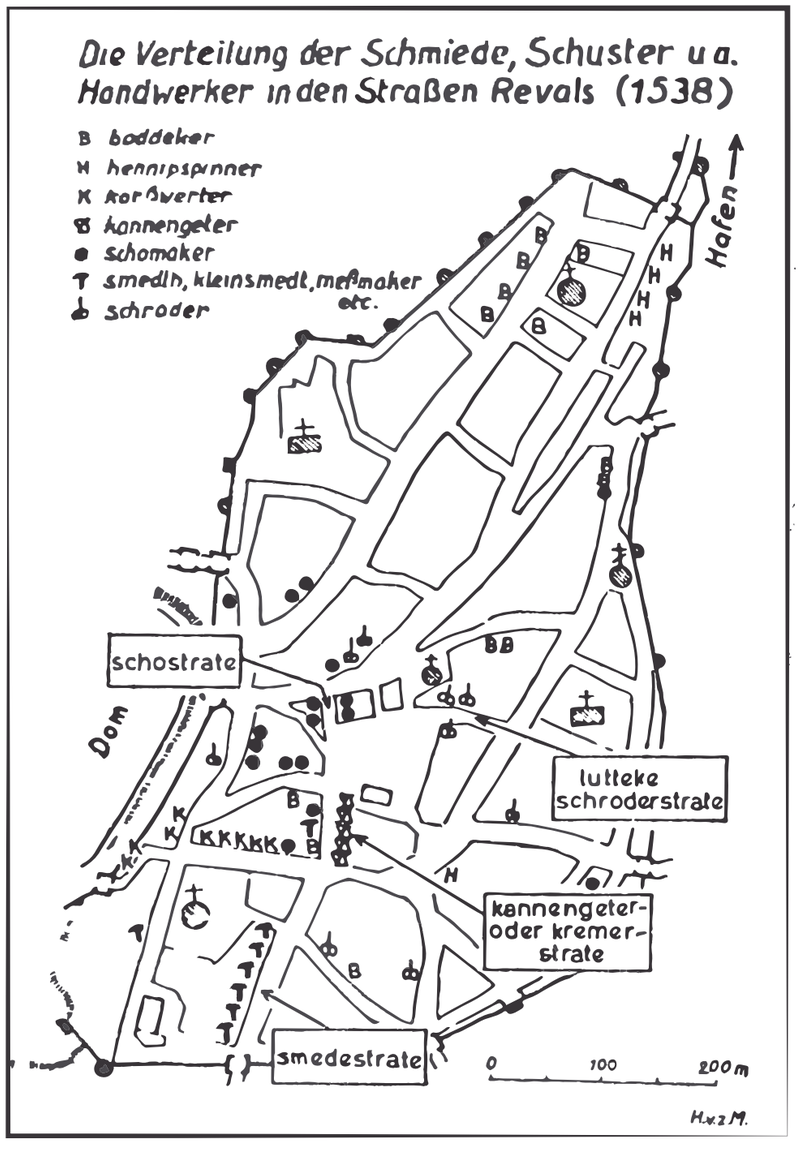
A door controls the thresholds between spaces, a skylight gives us control of the climate within a room, curtains give us control of light and privacy, and objects like fireplaces or light fixtures give us control of the intimacy of a space.

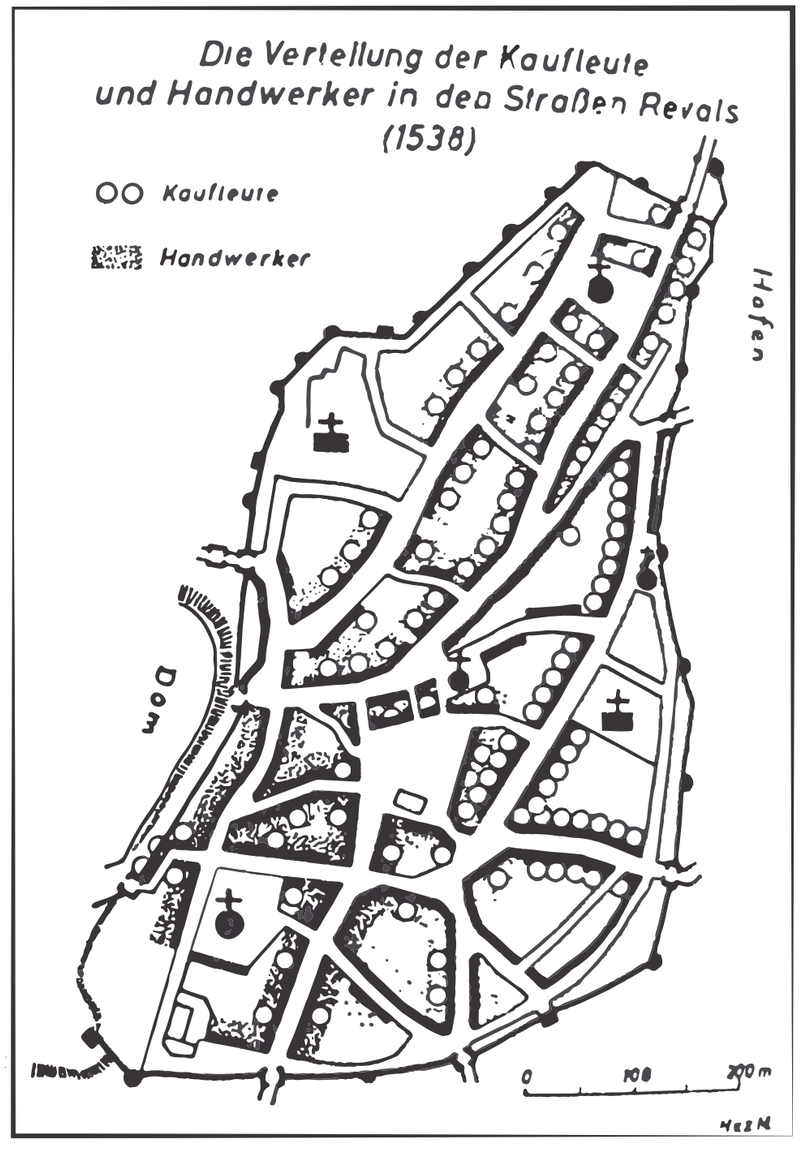


Chicken Point Cabin, Olsen Kundig

Carport + Greenhouse, Max Levy

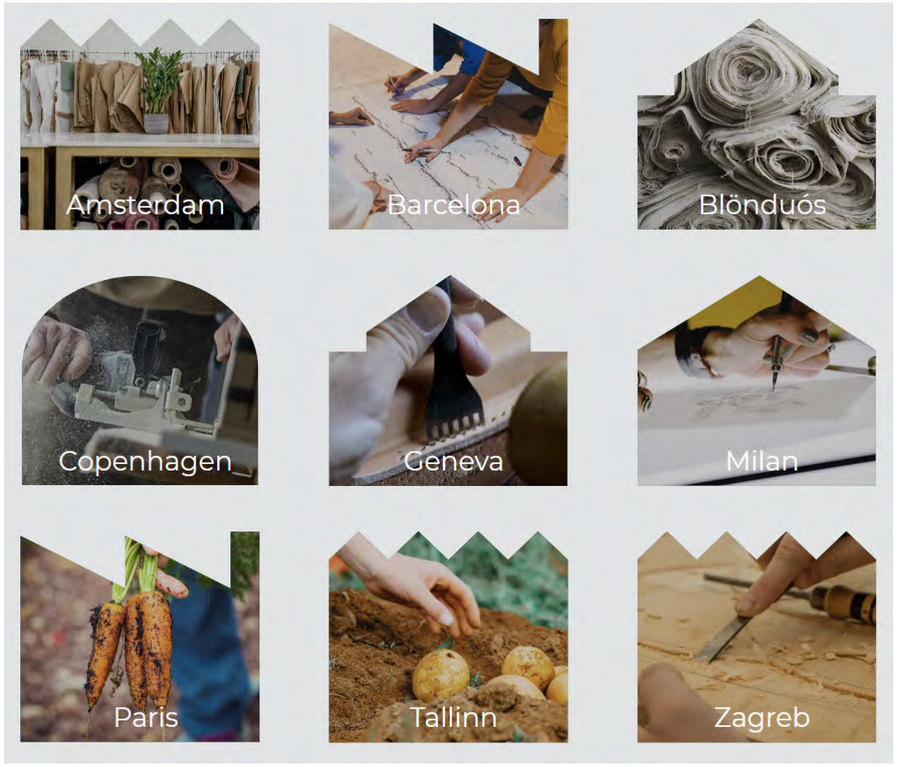
RESEARCH





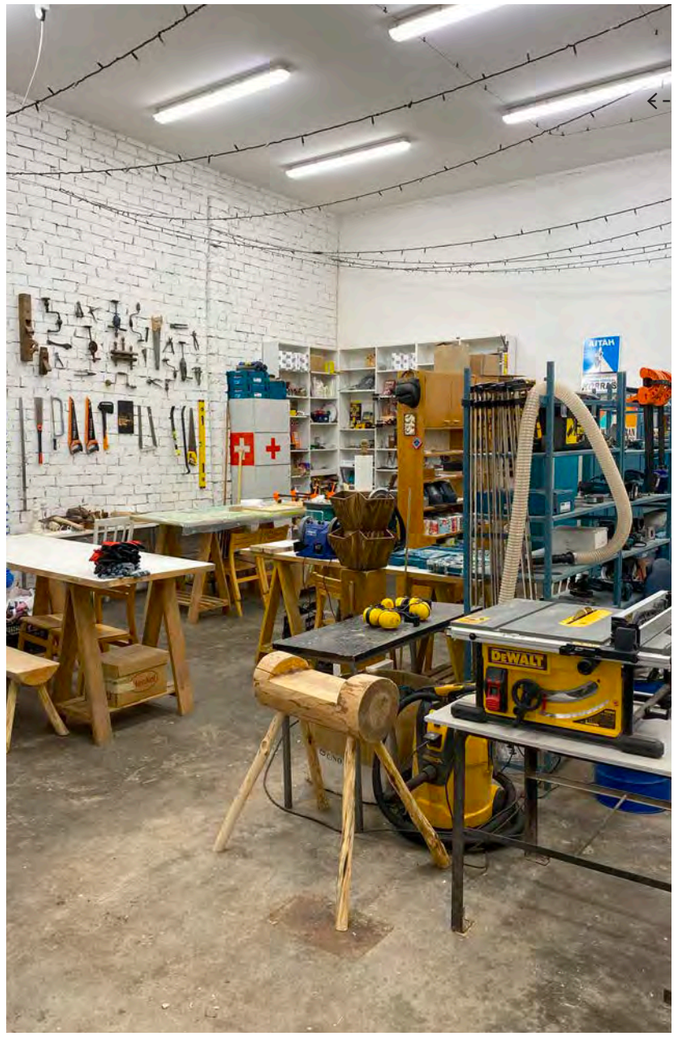
1538 maps of Craftsman and Merchants in Reval, Paul Johansen, Heinz von zur Muhlen.

CENTRINNO GROUP



Innovative mobile blacksmith station, Kopli 93 Makerspace + Vocational School, 2022

TARGETED USERS



Knowledge Sharing

MAKERS

Function

Build

Tools

CRAFTSMANSHIP

Knowledge

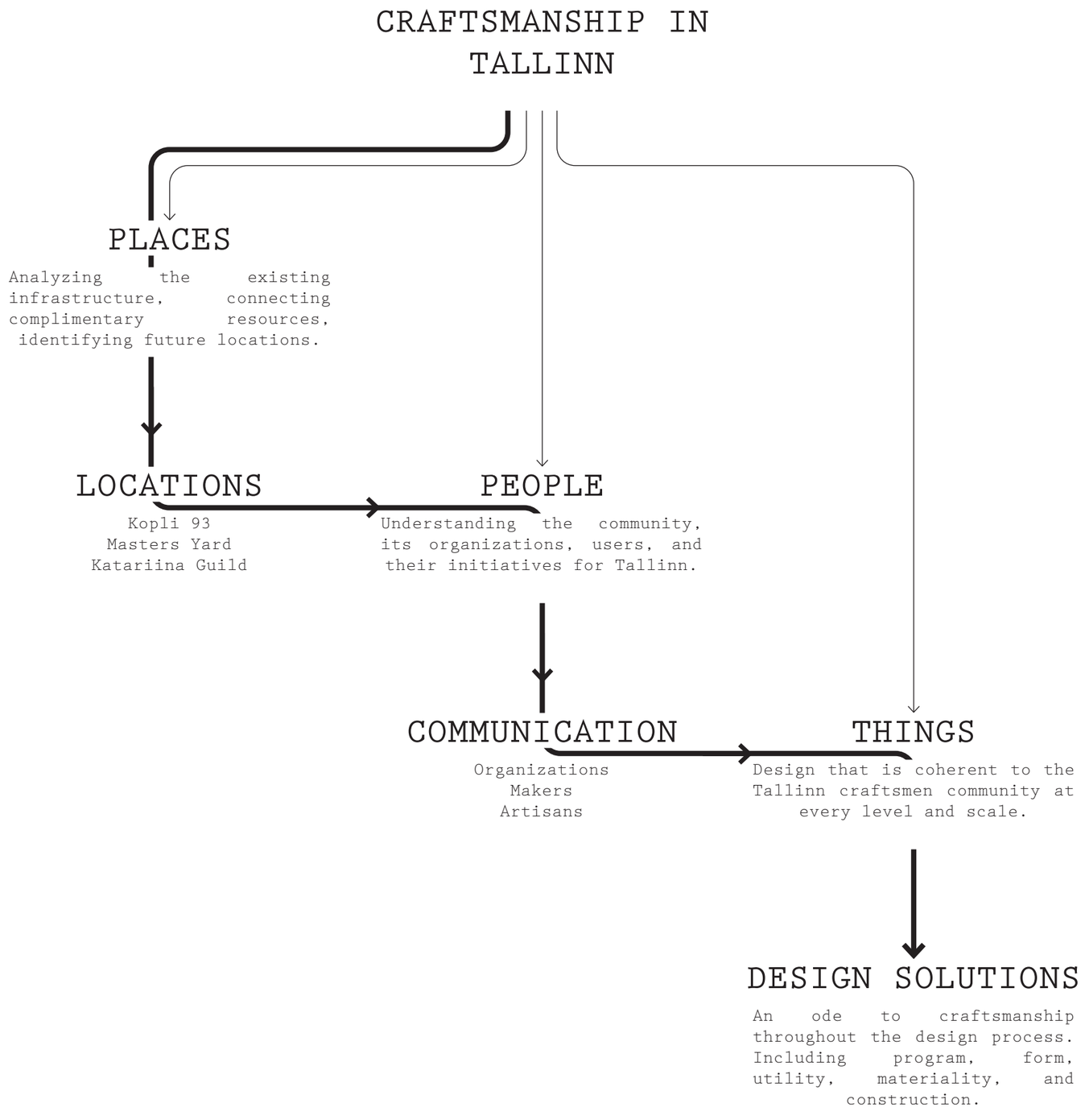
Form

Design

ARTISANS

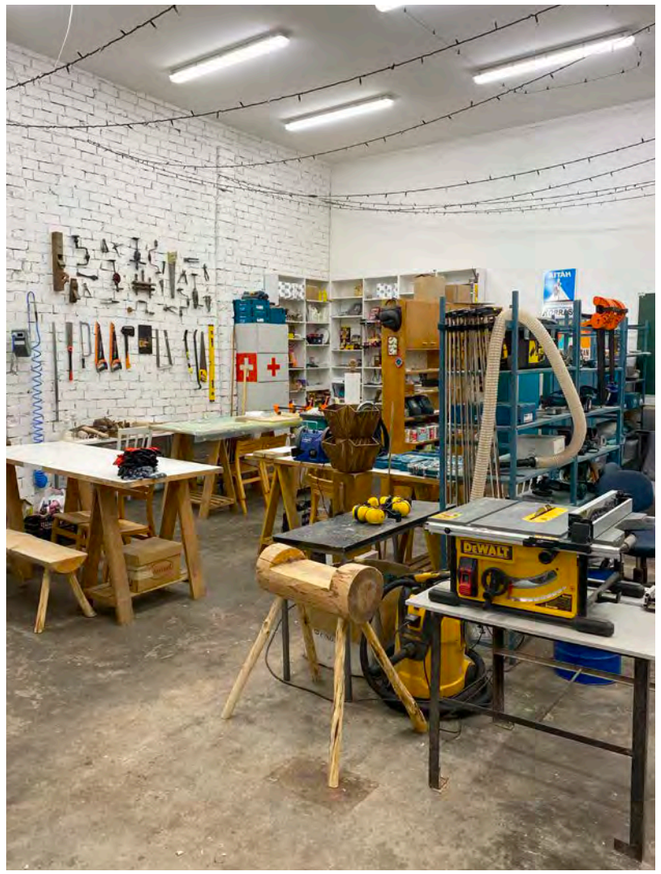
Product

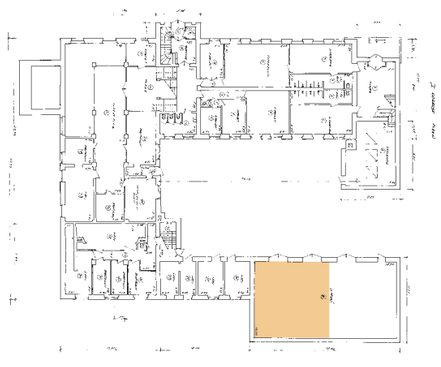
EXPLORING TALLINN



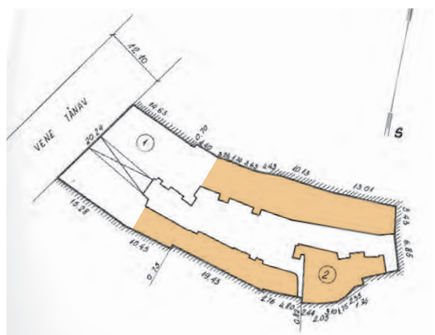
PLACES

Kopli 93

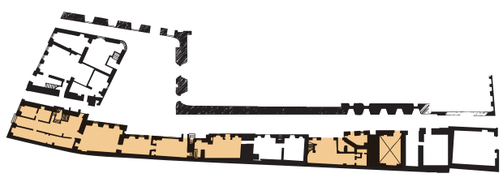




Masters Yard



Katariina Guild



PEOPLE

Kopli 93

Andre Pichen

Pilot project was successful, 8 more to be planned as well as an expansion of the current one at Kopli 93.

Masters Yard

Laura Shmideberga

Specific programmatic elements that a maker commune would benefit from.

Katariina Guild

Pille Kivihall

Focused on the usability of the studio spaces, adaptive furniture that lends itself to multiple uses.

THINGS

Kopli 93

Additional maker spaces throughout the city.

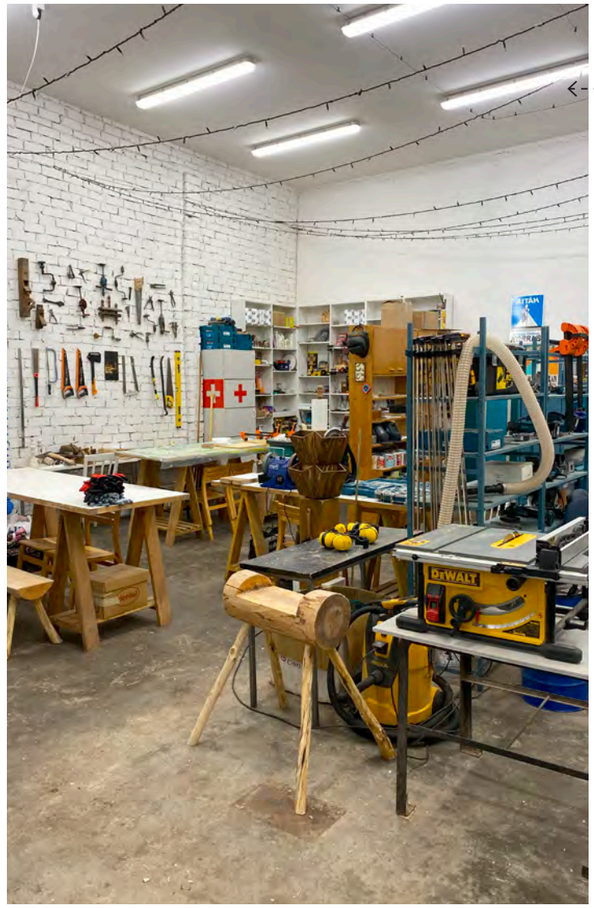
Masters Yard

Multidisciplinary programs that would support the artisans as well as help to activate the proposed community.

Katariina Guild

Small scale design solutions.

DESIGN PROPOSAL



Knowledge Sharing

MAKERS

Function

Build

Tools

CRAFTSMANSHIP

Knowledge

Form

Design

ARTISANS

Product

HANDCRAFT COMMUNITY

Old Town Tallinn 1:20 000

Old Town Tallinn 1:2000

LOCATION

Building off of the existing Katariina Guild and using the courtyard and passageway as the heart of the community.

Situating a new cultural location into Old Town Tallinn.

Katariina Guild

Makerspace

Workshops

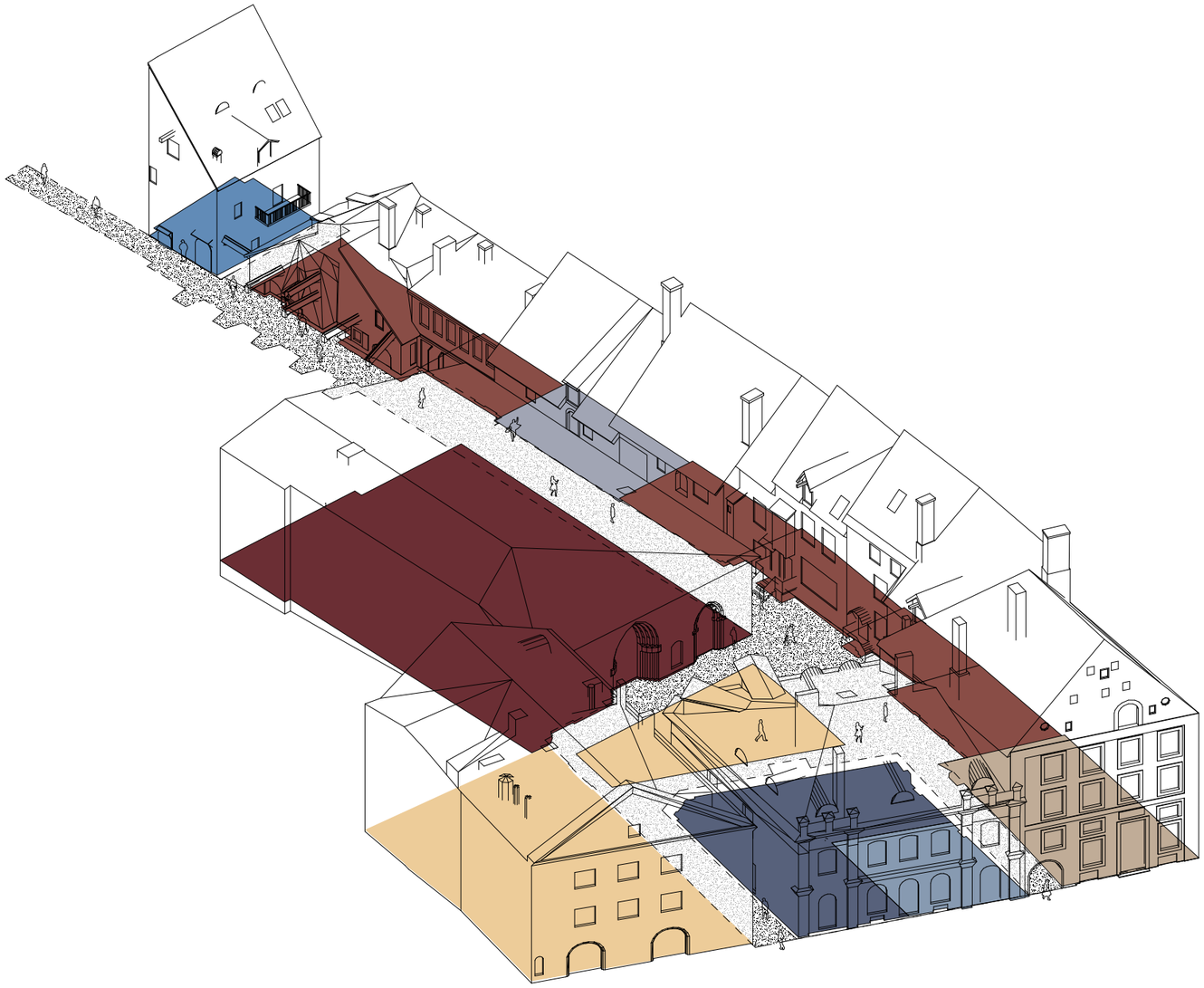
Photo Studio

Administration

Material Library

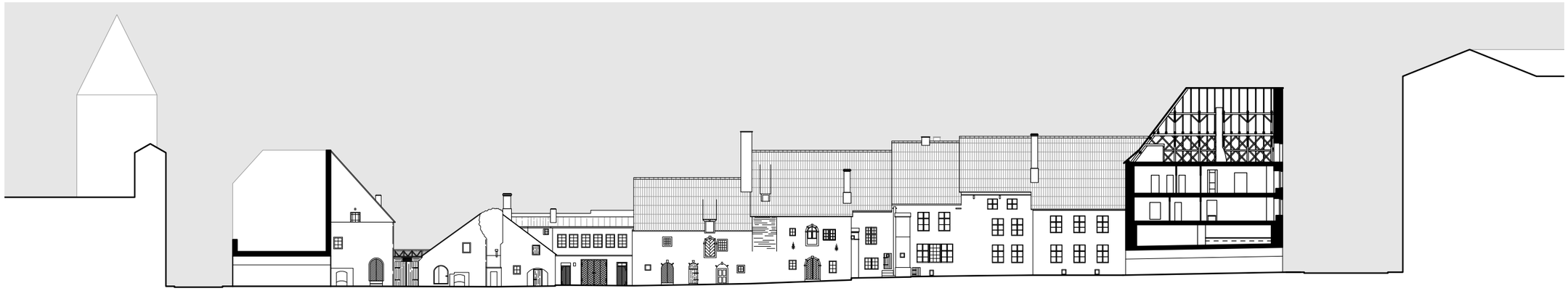
Gallery

Cafe + Beer Garden



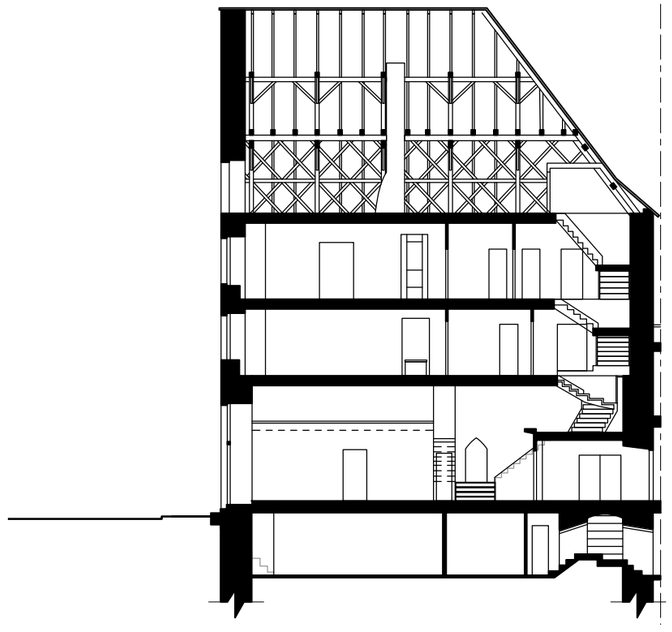
PROGRAM

ARCHIVAL RESEARCH



Interior Elevation 1:500

Street Elevation 1:250



Section AA 1:250

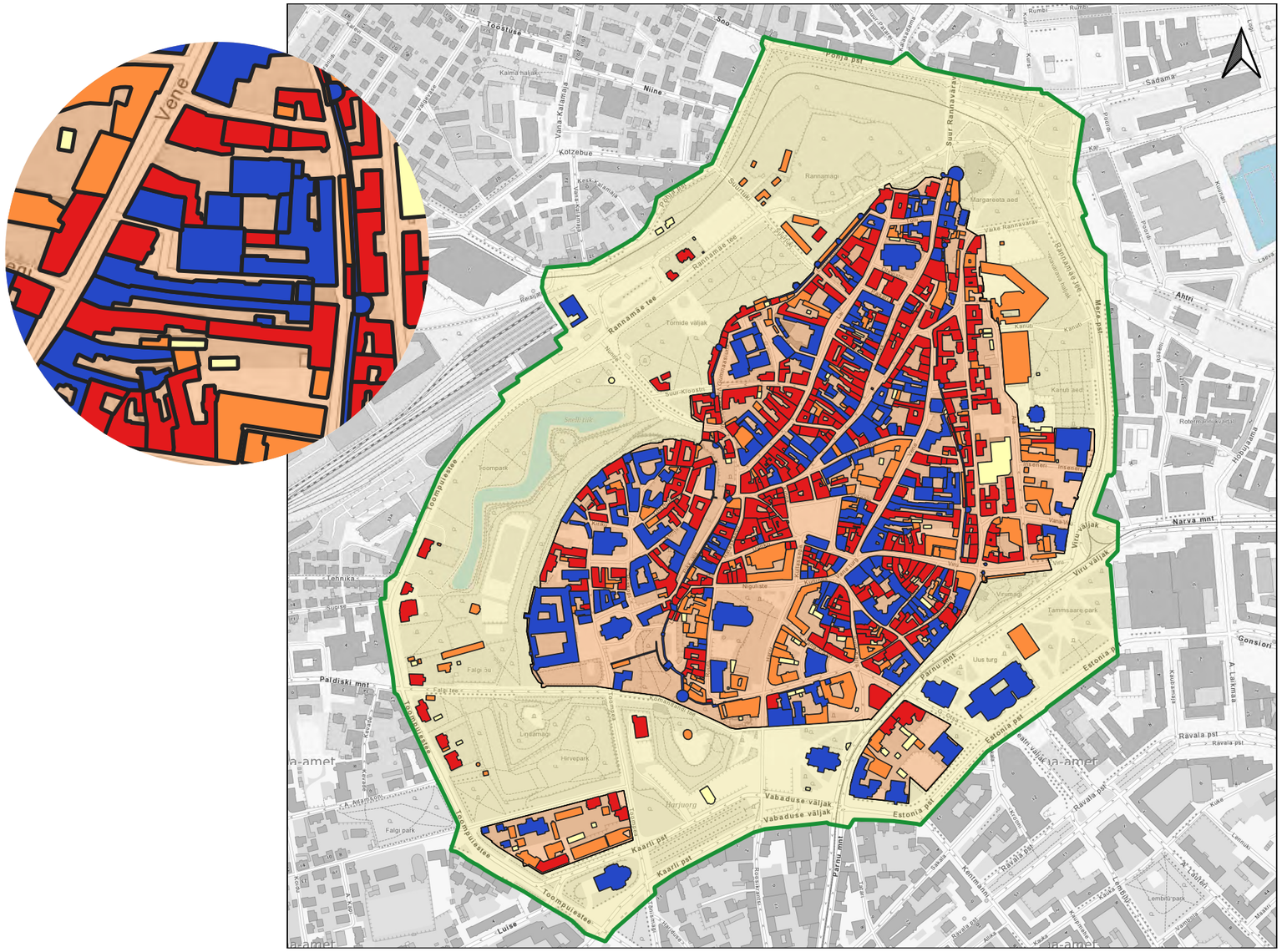
DISCIPLINARY ANALYSIS

Vene 12 (Street) 1:200

Vene 12 (Passage) 1:400

Katarina Church (Passage) 1:400

DISCIPLINARY ANALYSIS



Vabariigi Valitsuse korraldus „Tallinna muinsuskaitseala kaitsekord"

Lisa 2. Muinsuskaitseala piirkonnad, hoonete kaitsekategooriad ja mälestised

Muinsuskaitseala piir

Muinsuskaitseala piirkonnad

Muinsuskaitseala piirkond 1, linnatuumik koos kindlustusvööndi hoonestatud kvartalitega

Muinsuskaitseala piirkond 2, ülejäänud kindlustusvöönd

Kaitsekategooriad

A-kaitsekategooria

B-kaitsekategooria

C-kaitsekategooria

Täiendav informatsioon

Mälestis (hooned)

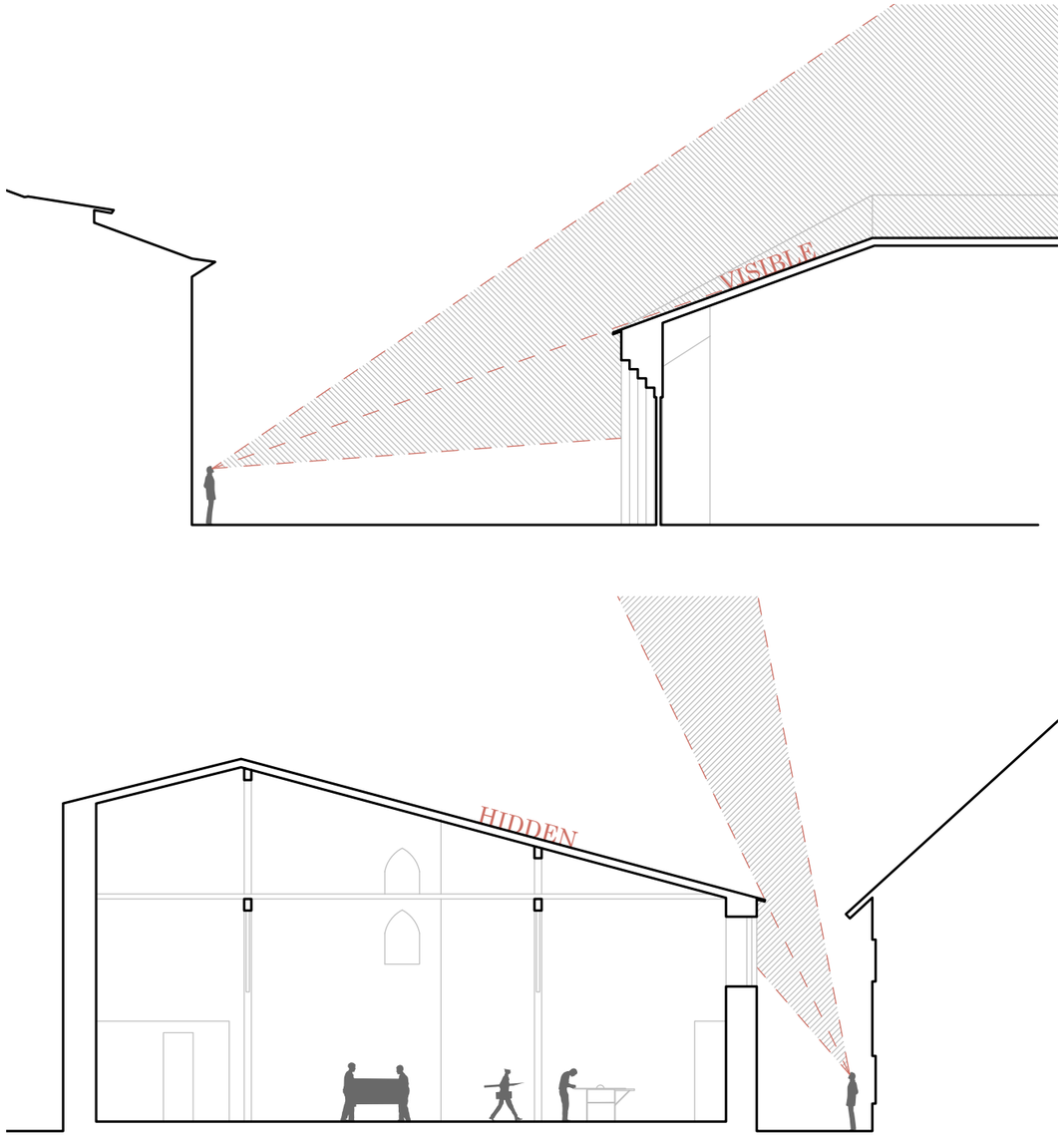
Linnamüür ja tornid

0 100 200 m

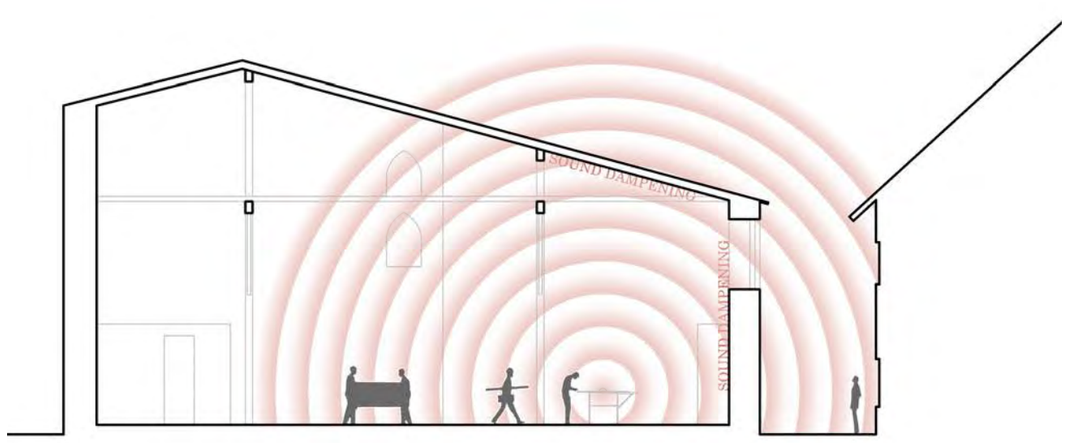
Muinsuskaitseala asub arheoloogiamälestise Tallinna vanalinn, I-II a-tuh (reg nr 31172) alal.

13.11.2023
Muinsuskaitseamet
Aluskaart: Maa-amet 2023

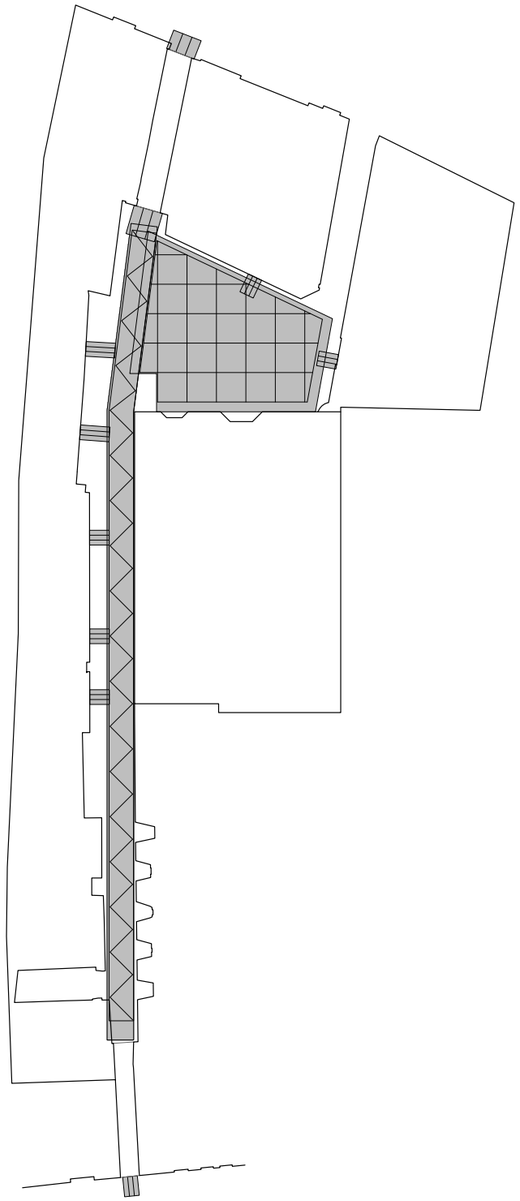
Tallinn Heritage Conservation Area: Building Protection Categories, 2023



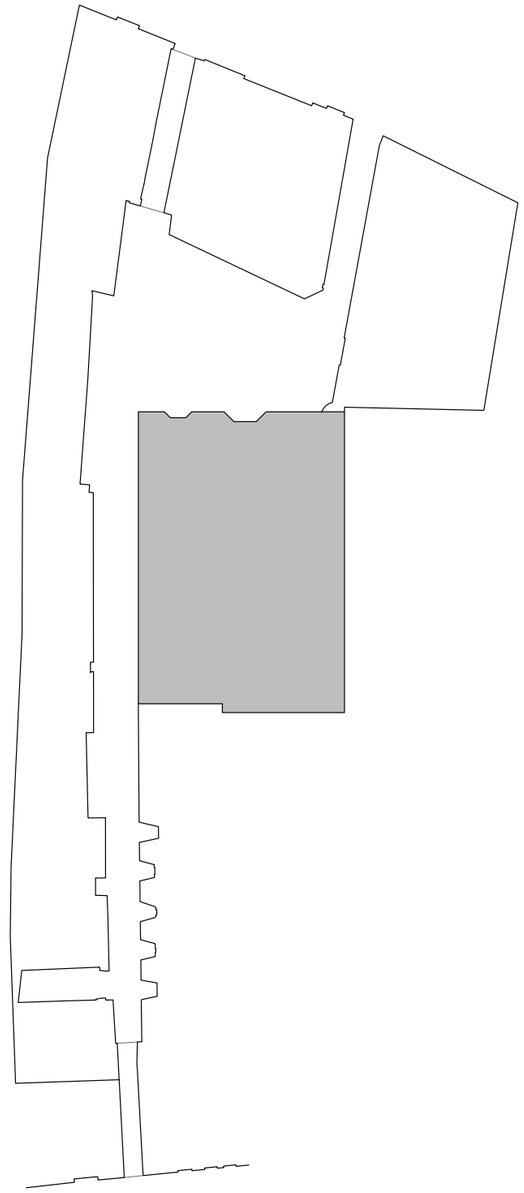
Heritage Protection Diagram, Section IV.16.8



Heritage Protection Diagram Section, II.8.2.



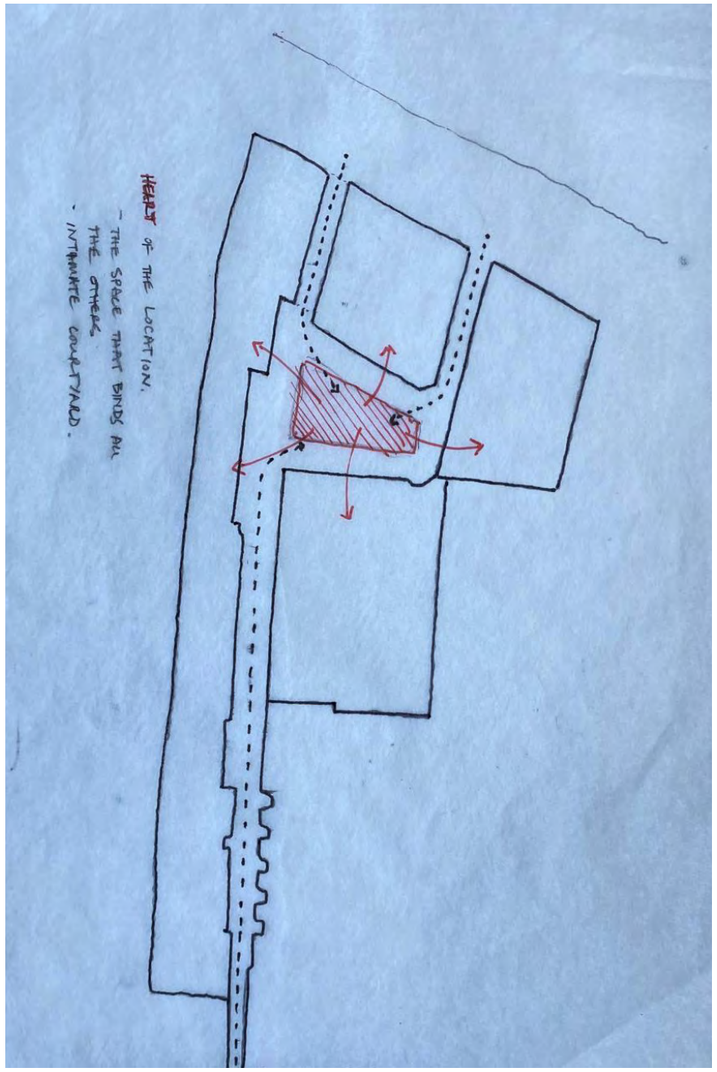
Exterior Public Space

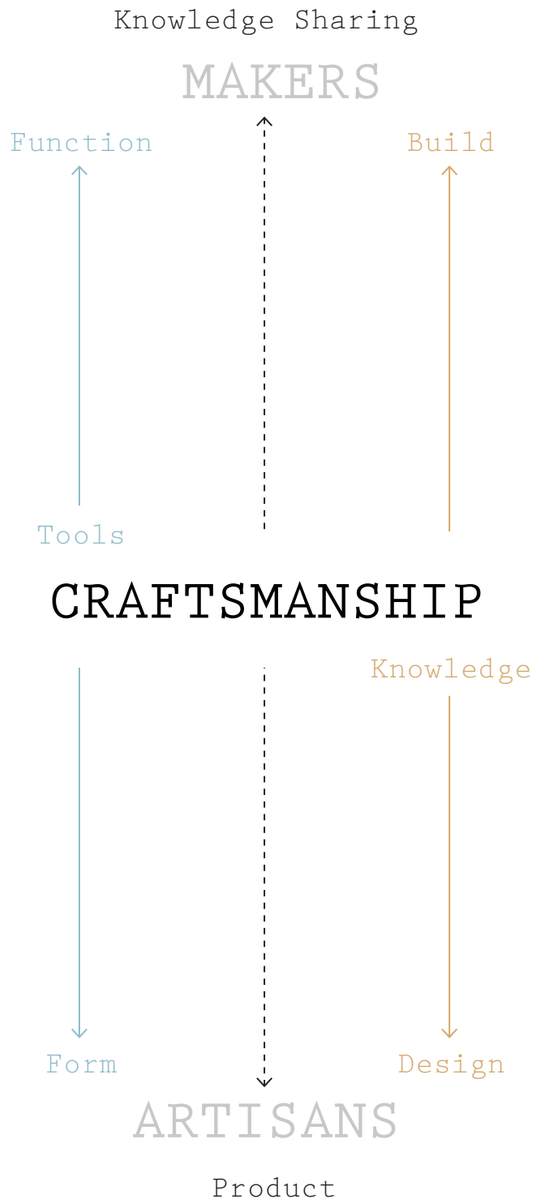


Historic Renovation

Interior Promenade

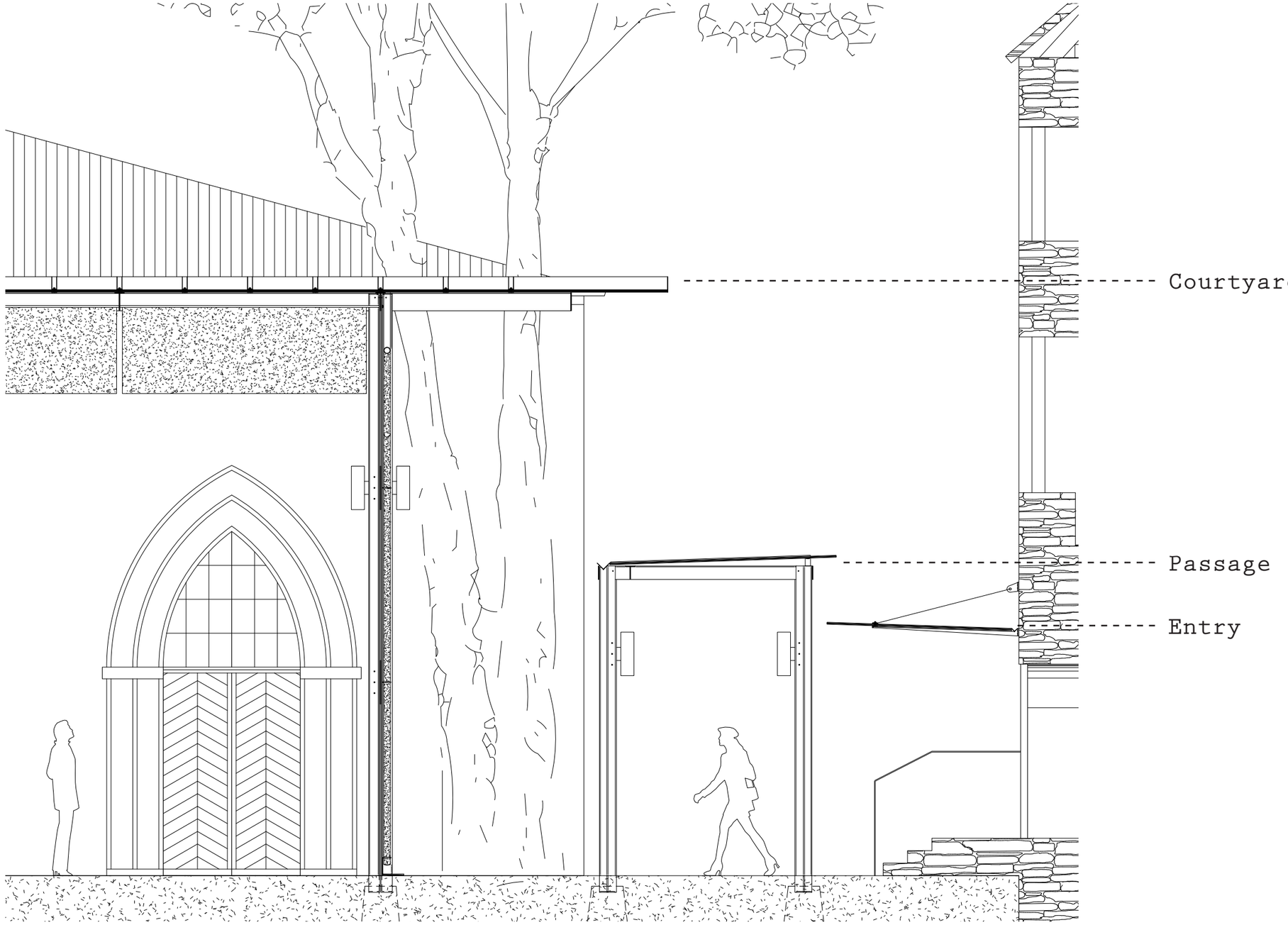
INTERVENTIONS



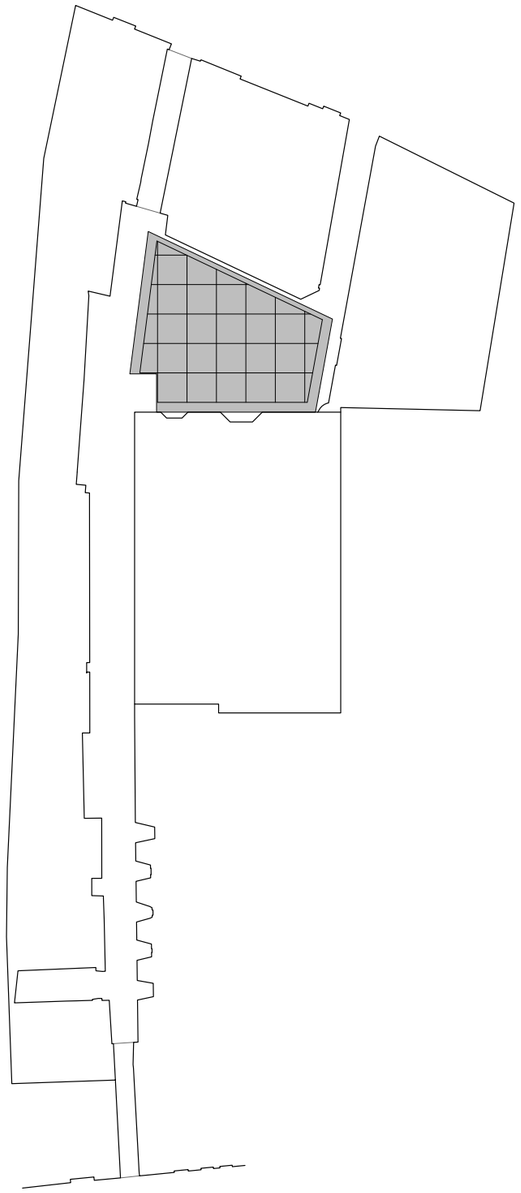


activating the courtyard as a communal hearth and providing more public space

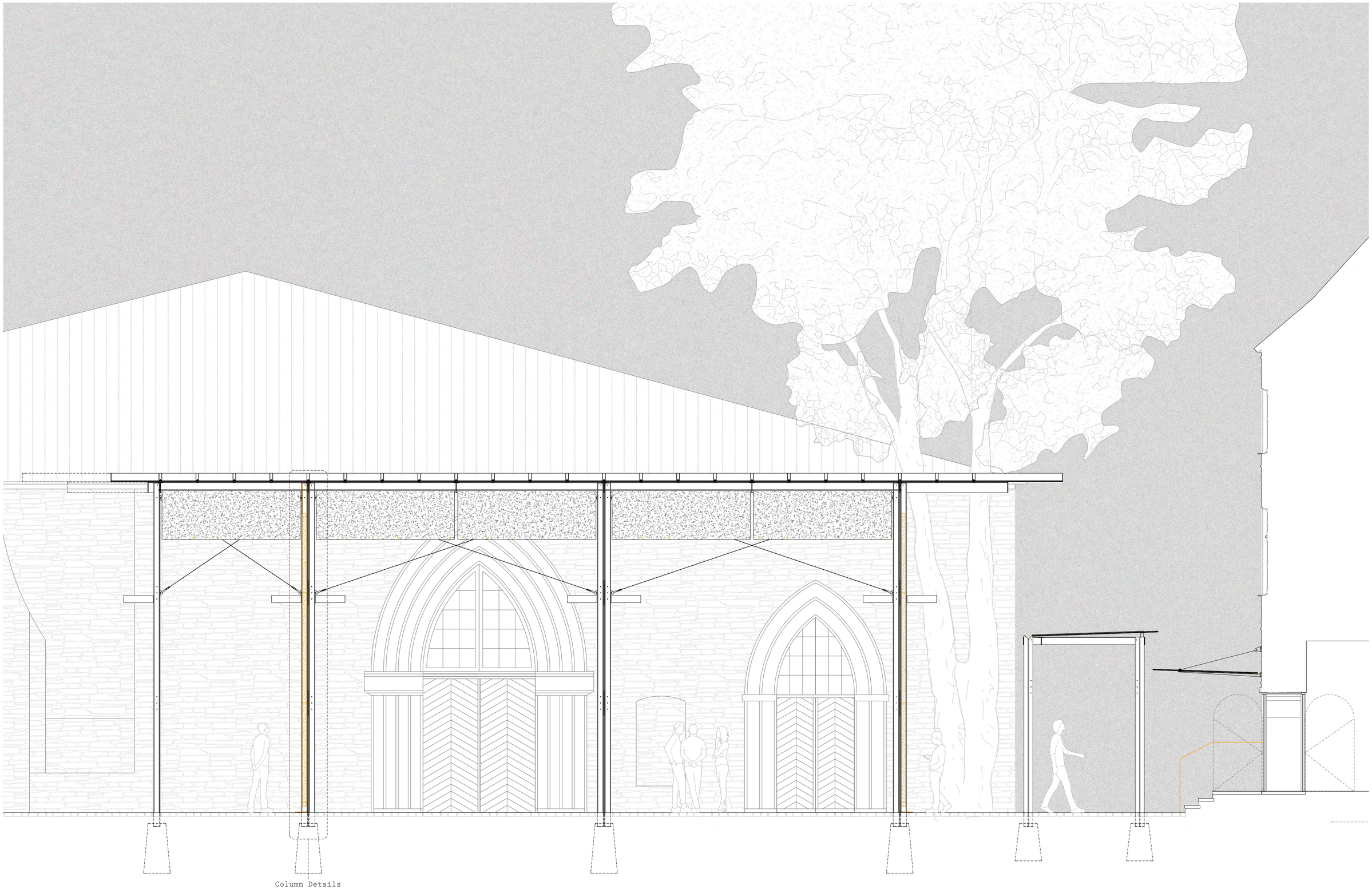
EXTERIOR PUBLIC SPACE



LAYERING STRATEGY



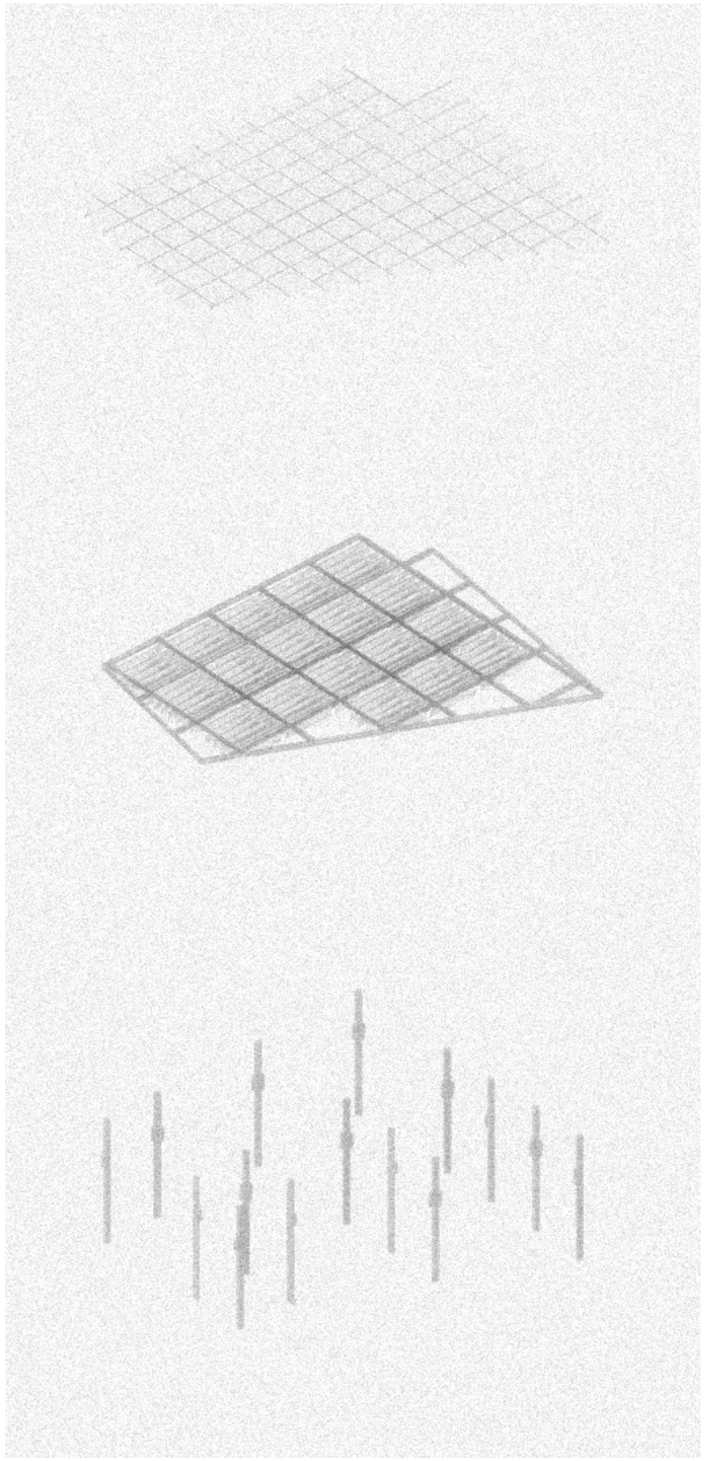
COURTYARD



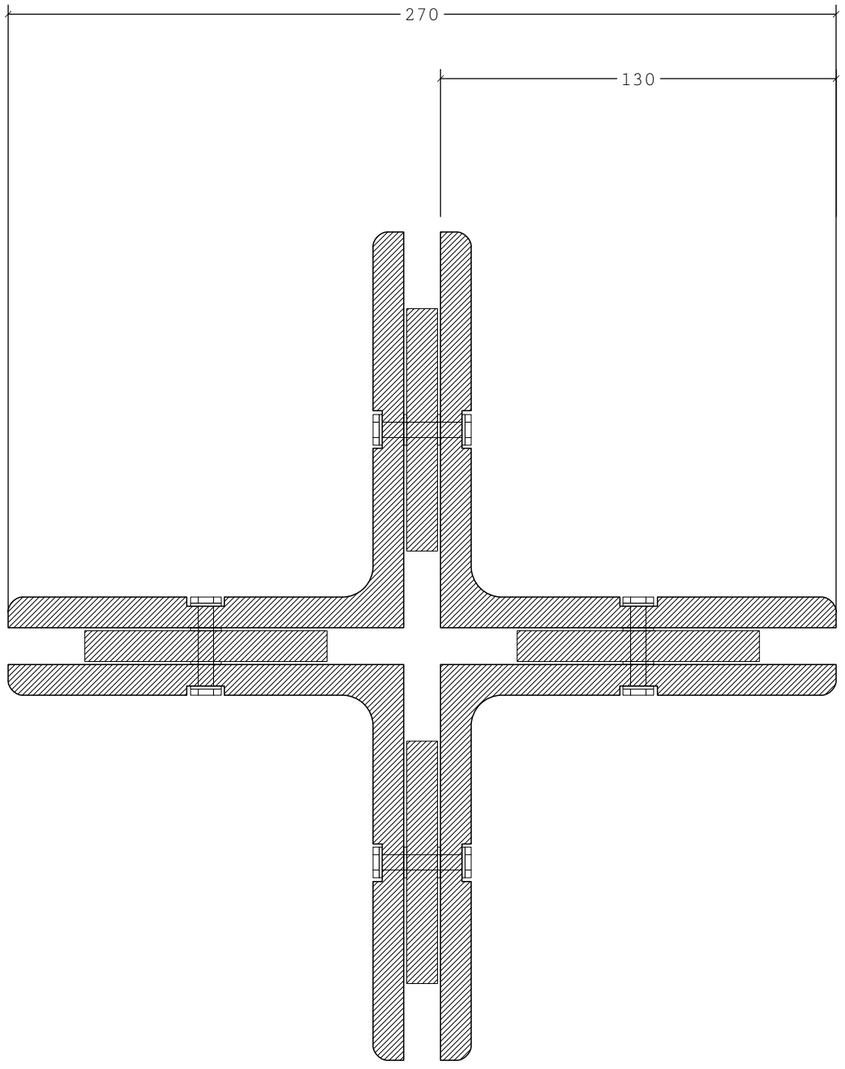
SECTION AA 1:50

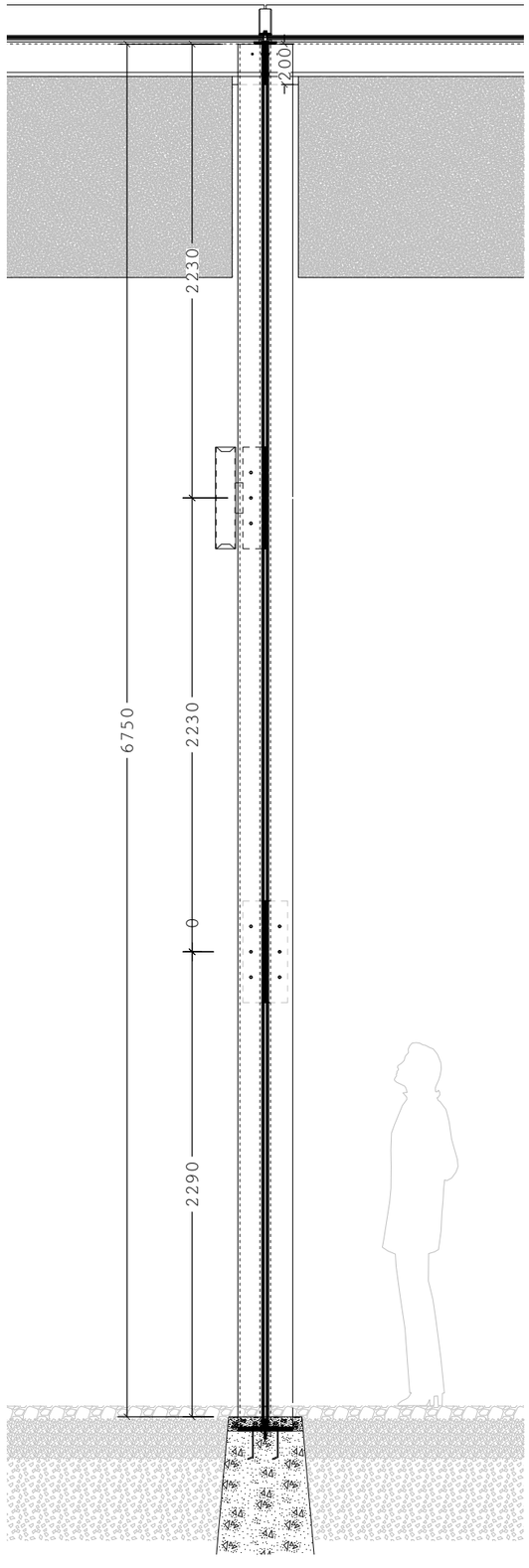
0 1 5

COURTYARD PAVILION

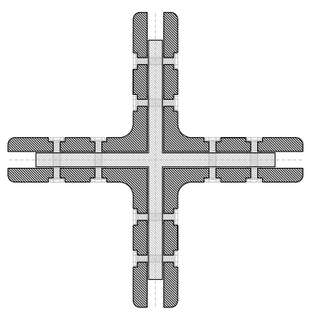


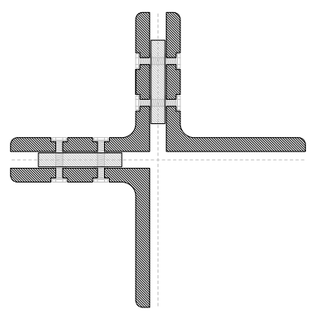
STRUCTURAL COMPOSITION

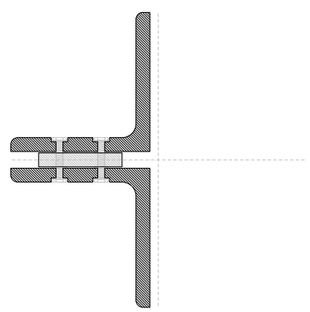




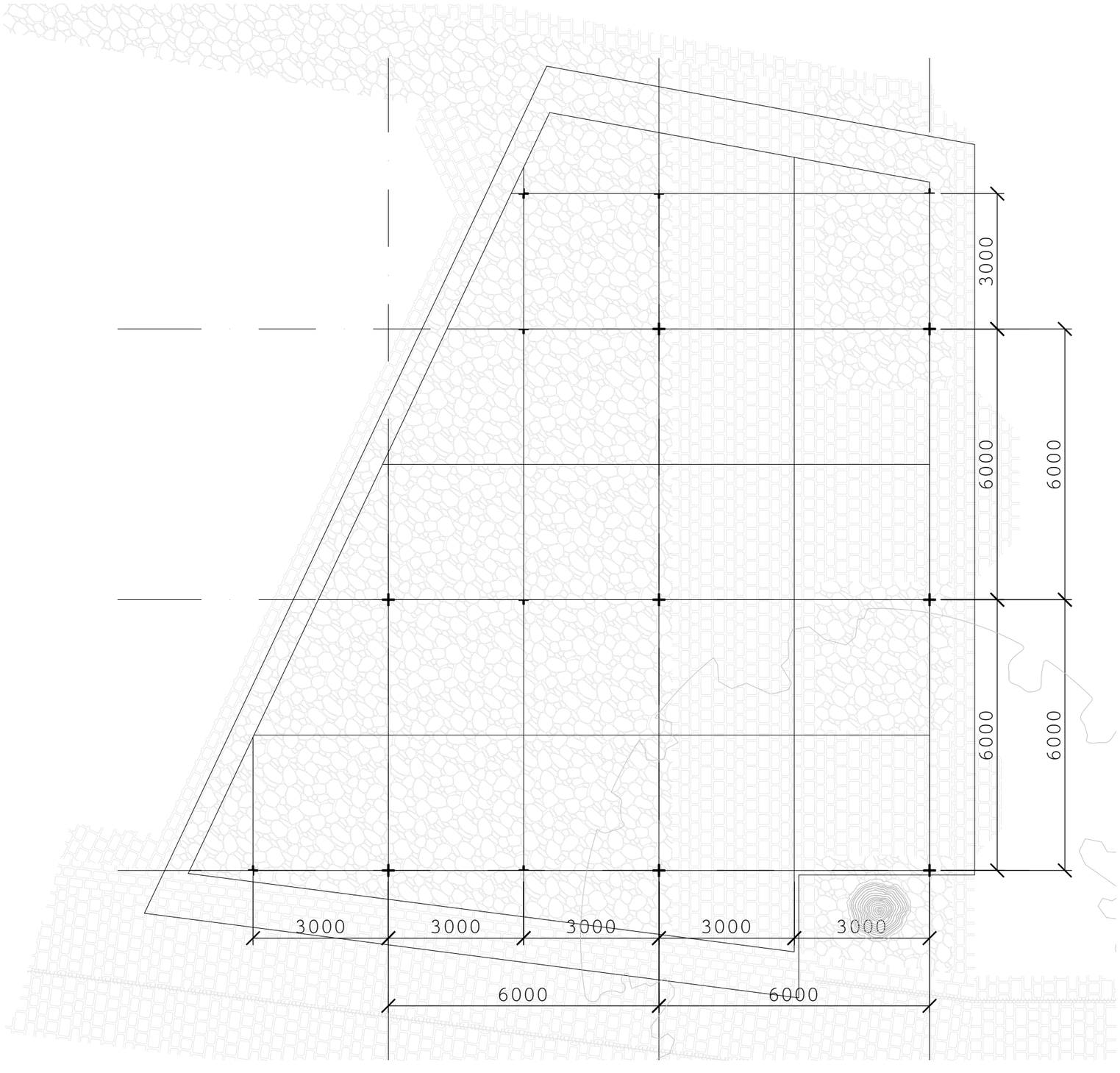
COLUMNS

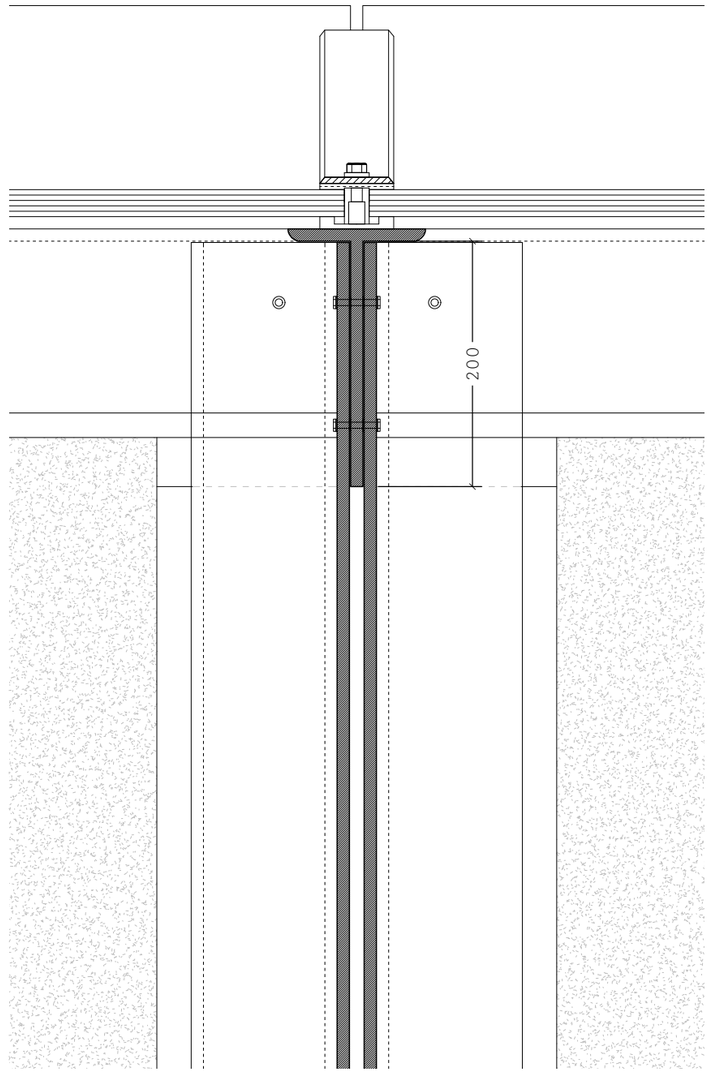




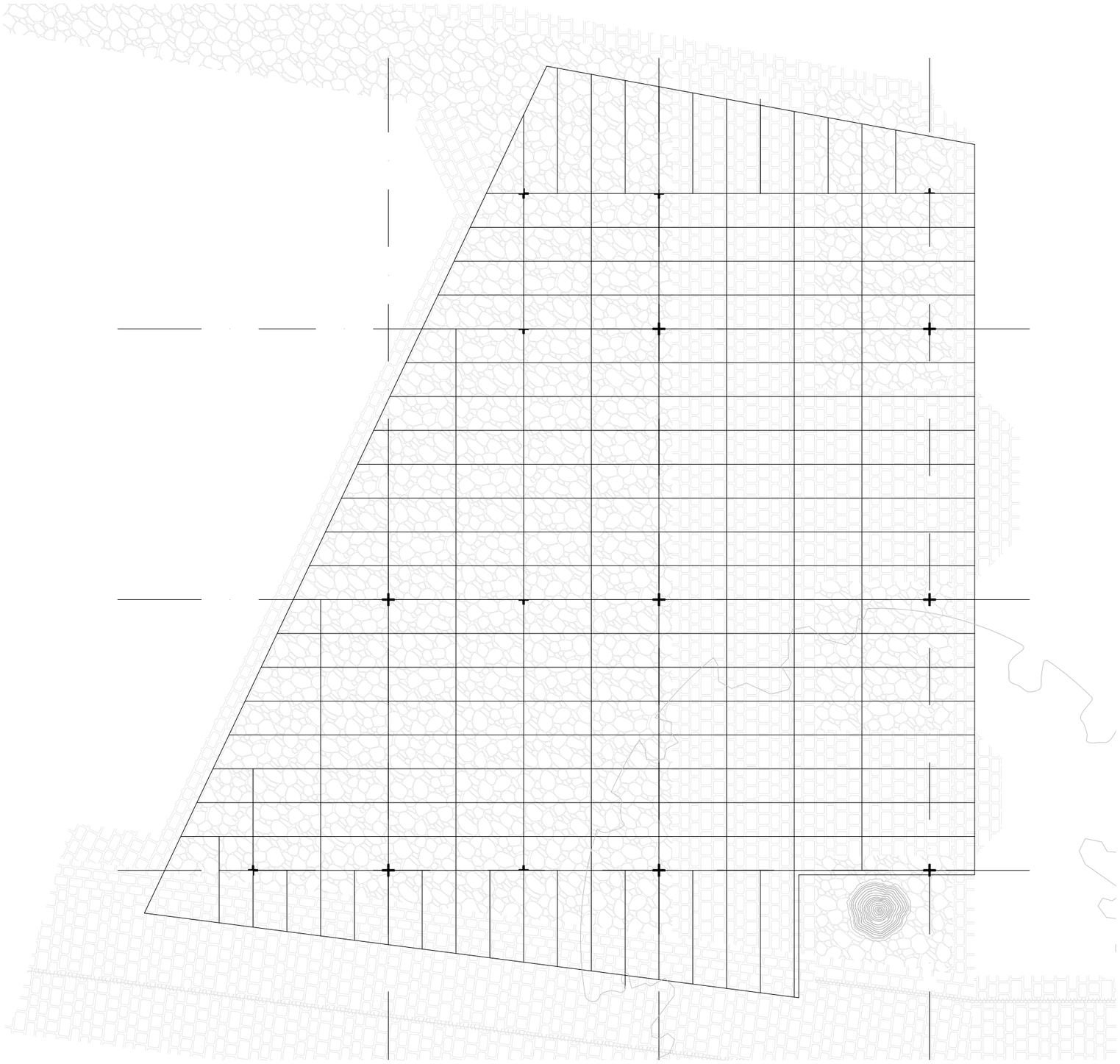


COLUMN VARIATIONS

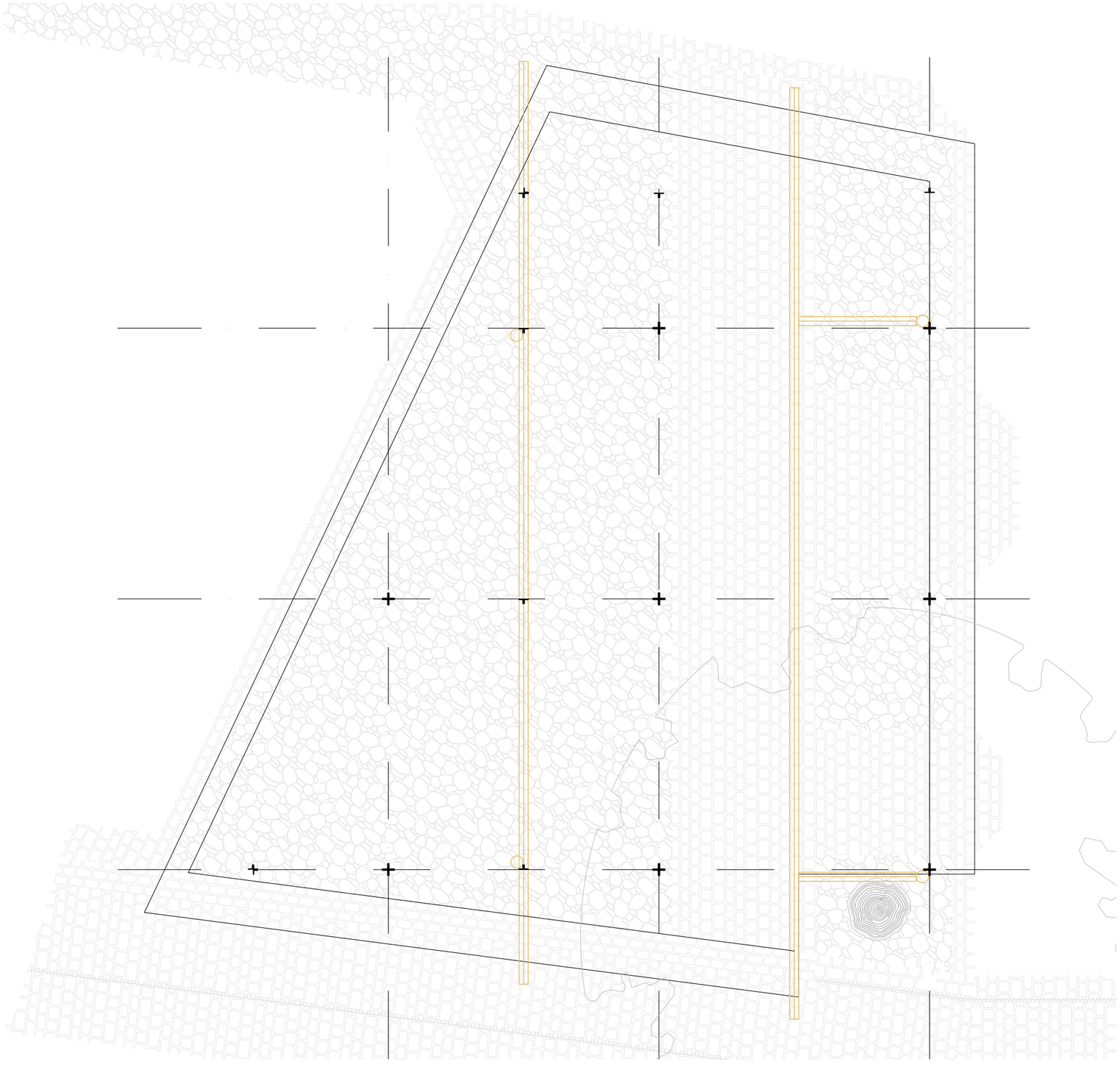


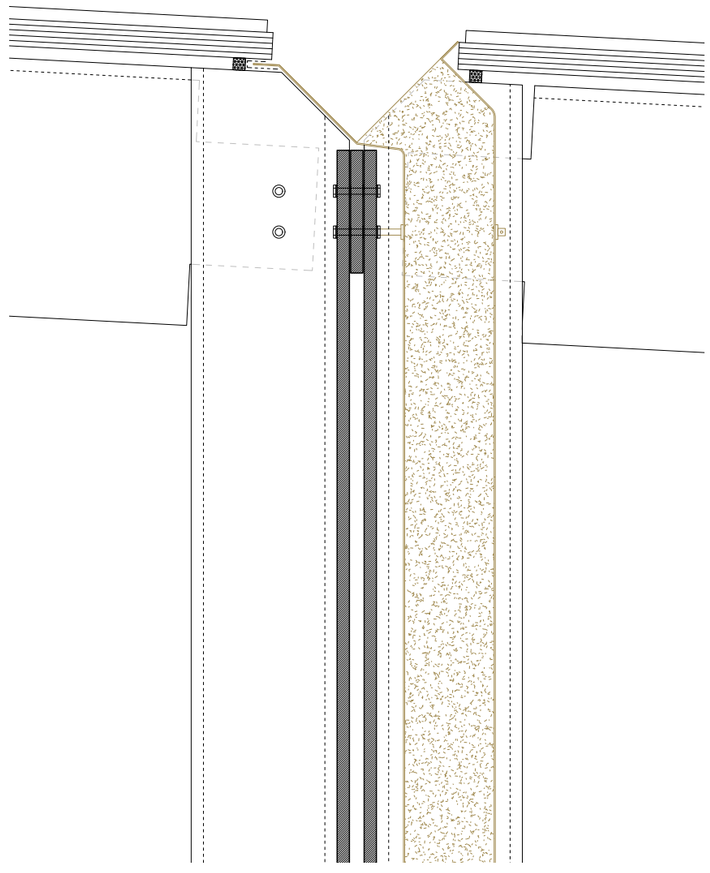


BEAMS (3X3 GRID)

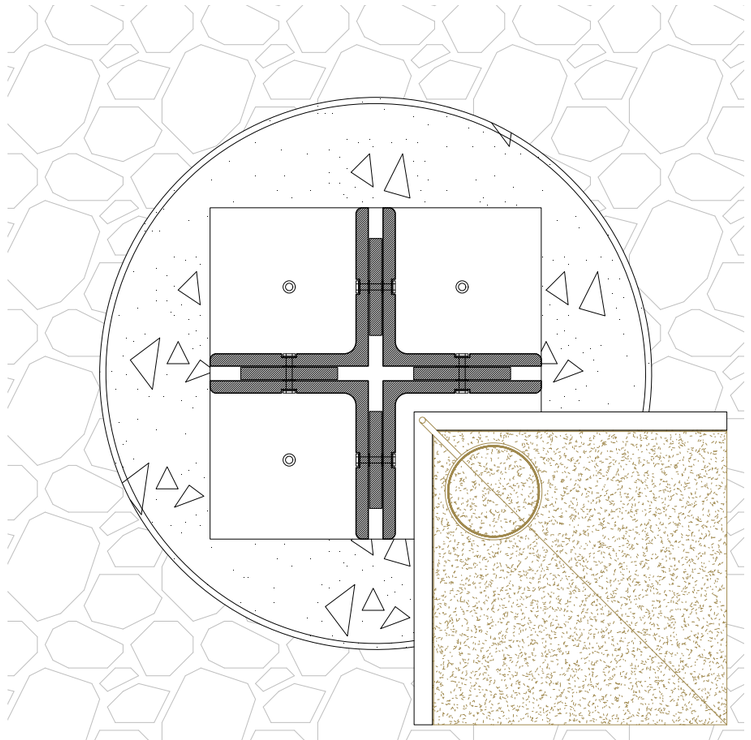


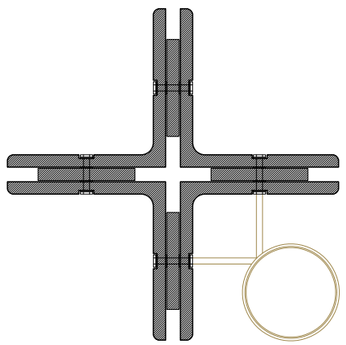
ROOF (1.5M X 0.75M)

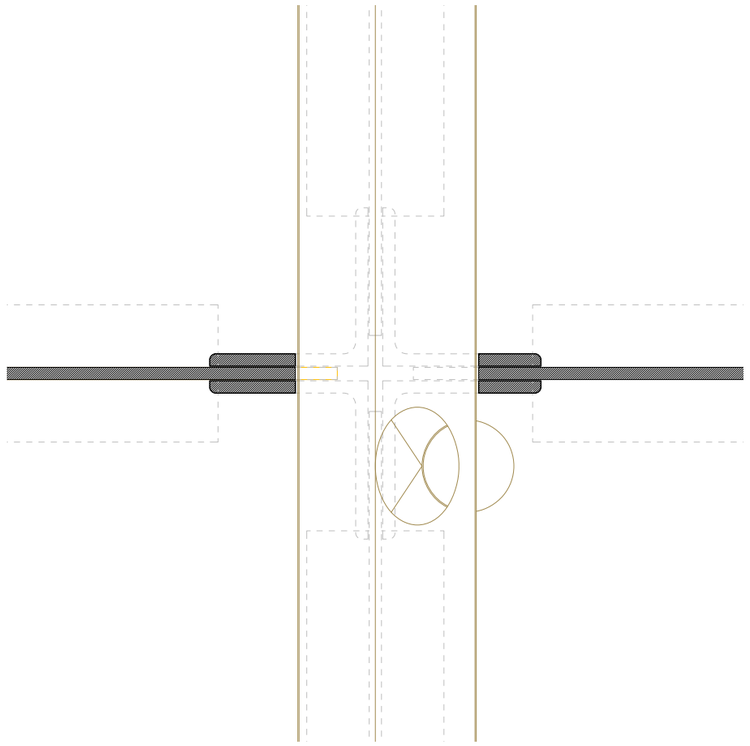




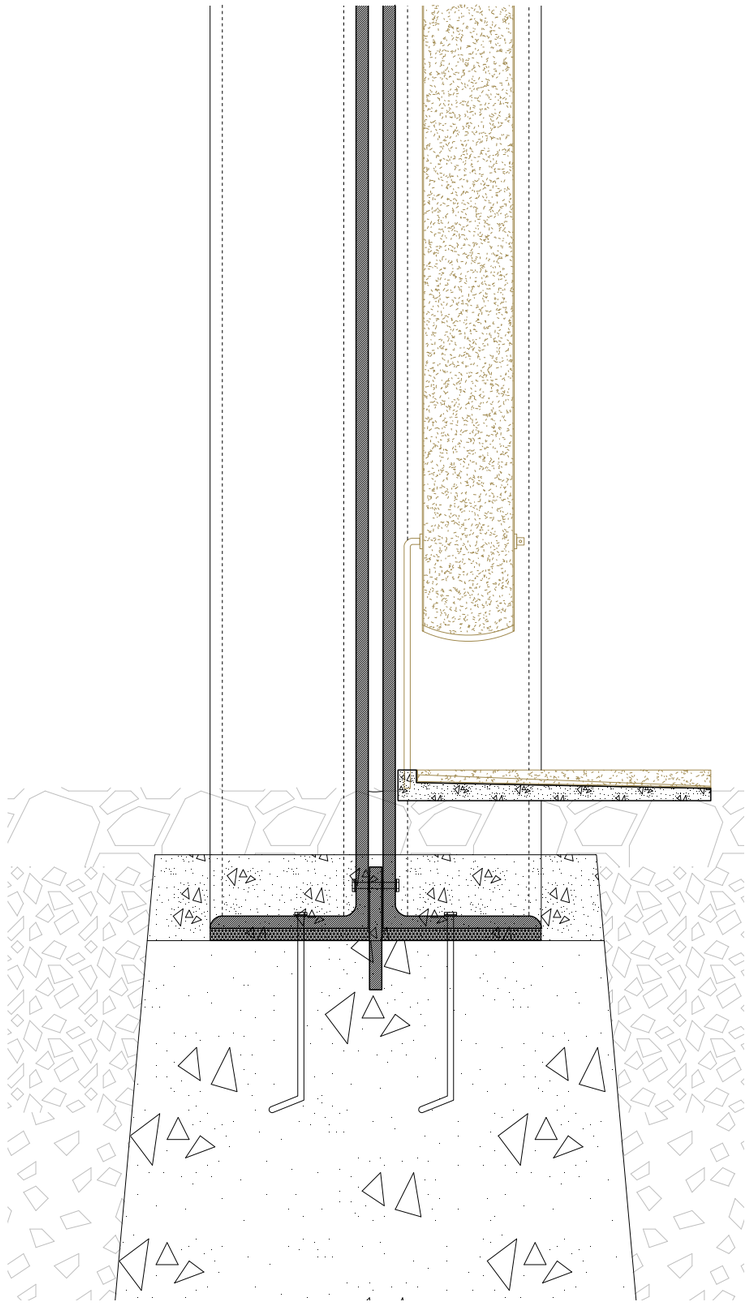
RAIN GUTTERS

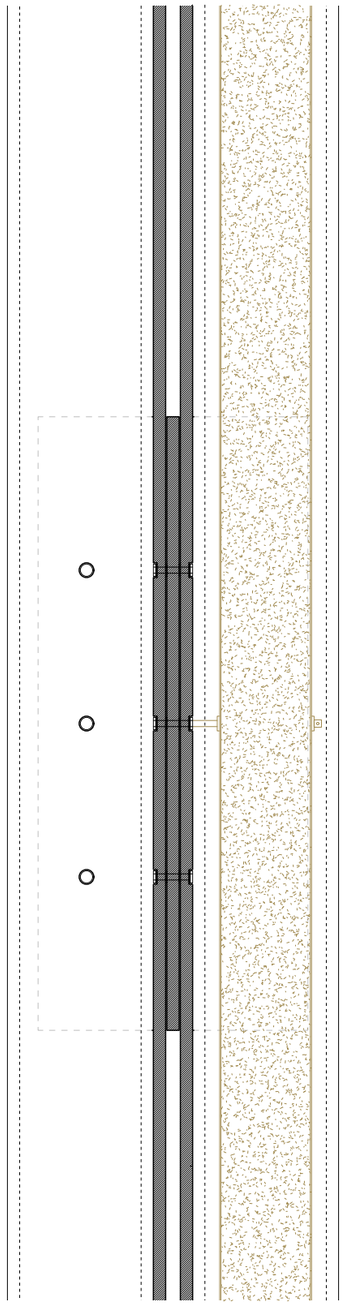


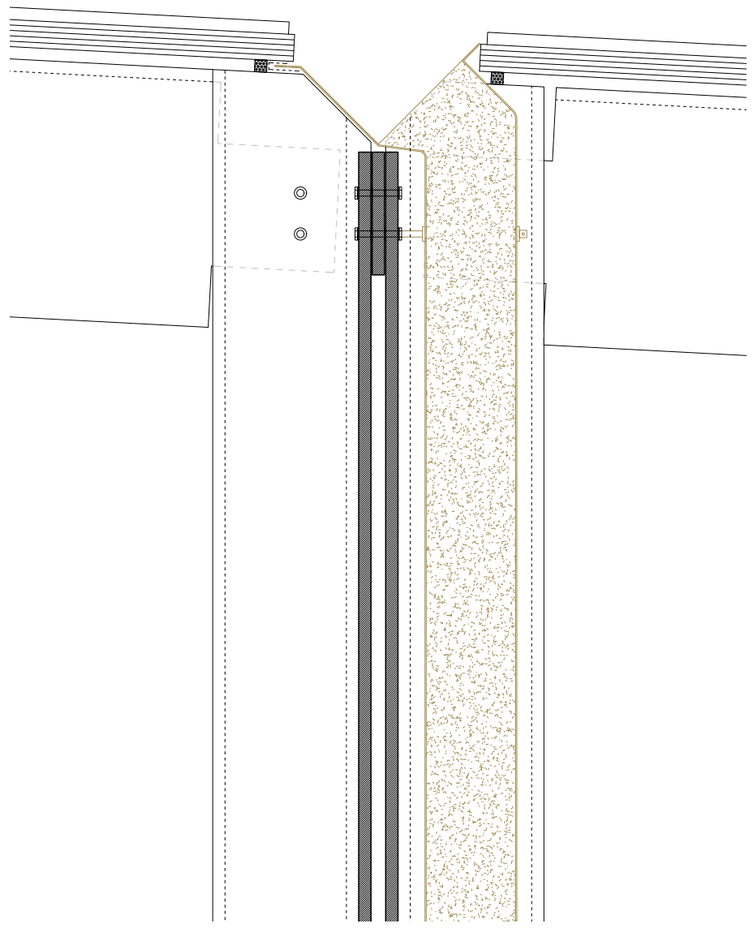




DRAINAGE PLAN DETAILS

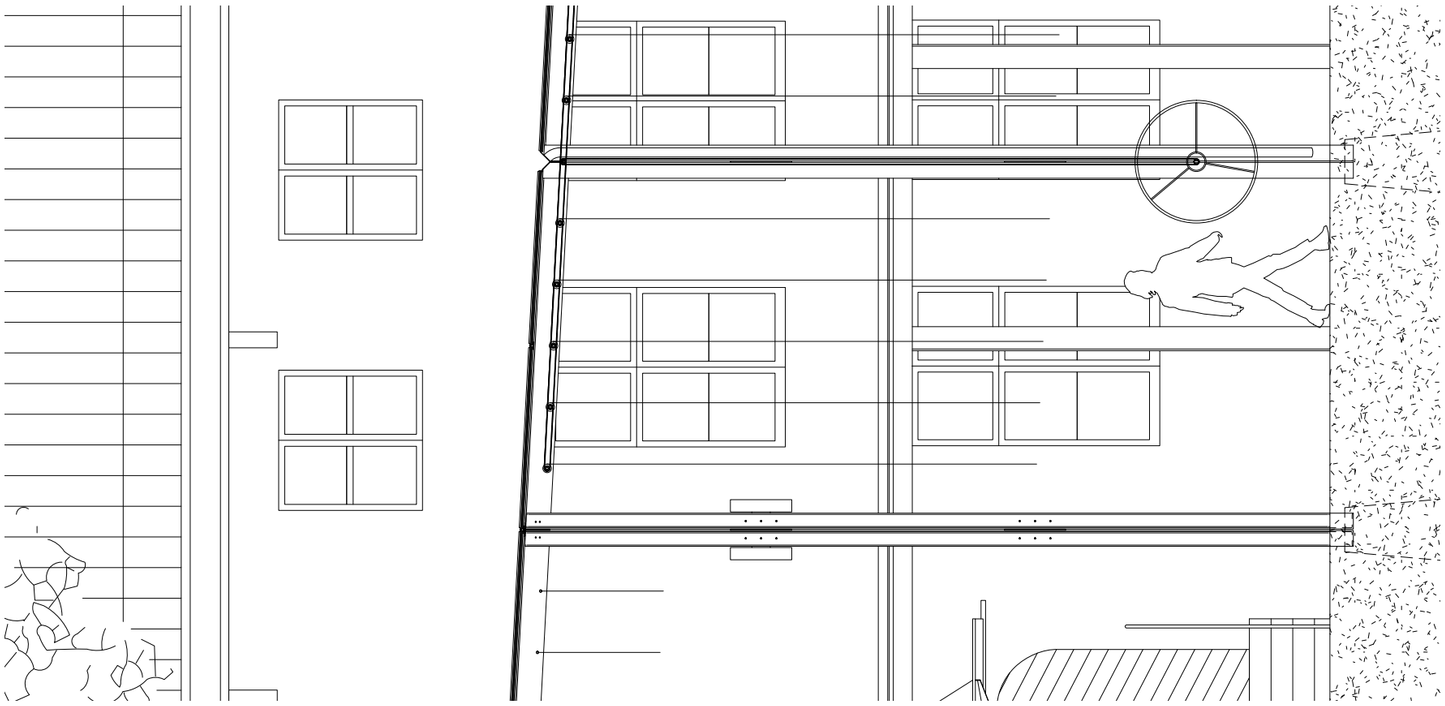


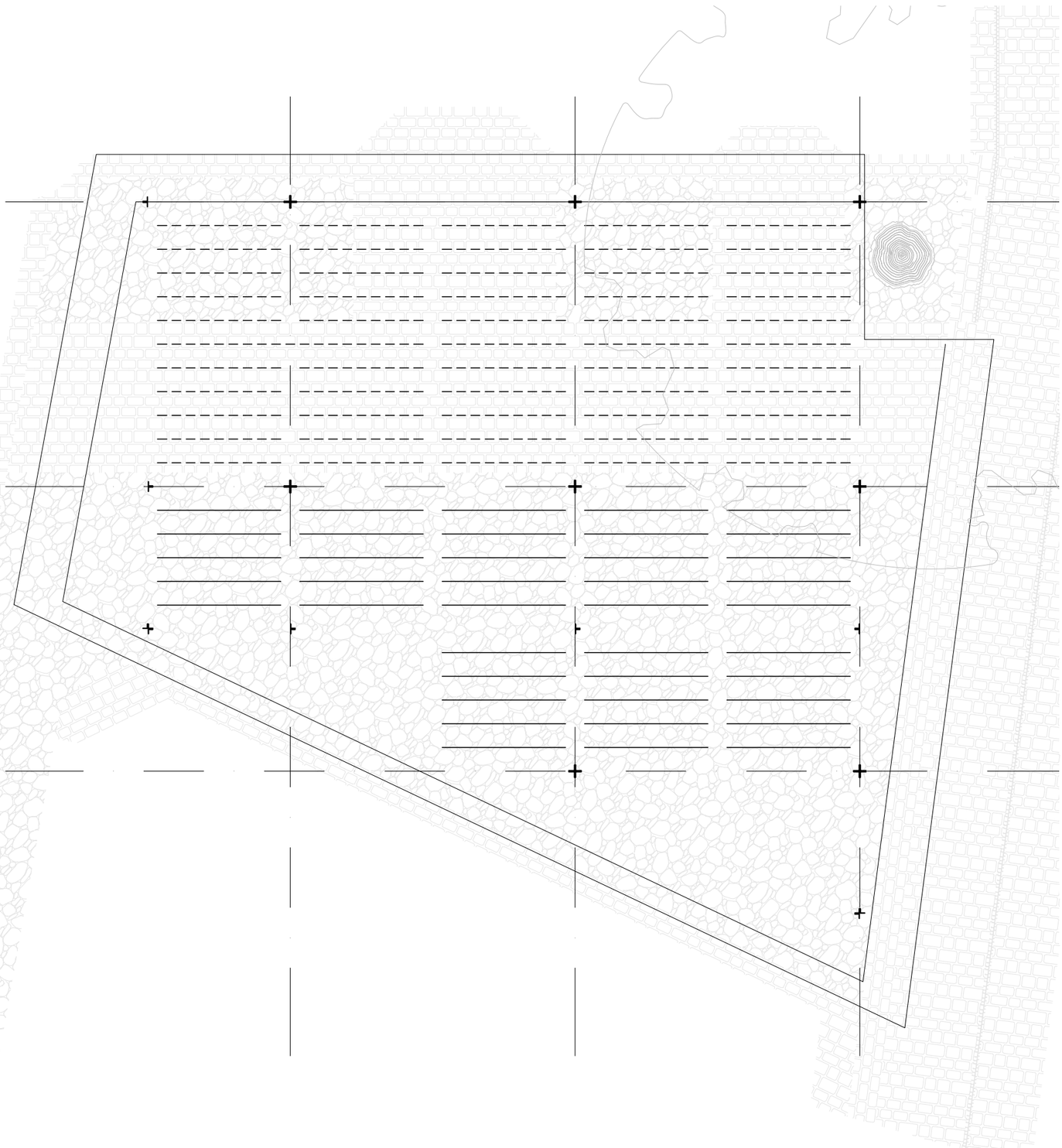




DRAINAGE SECTION DETAILS

MOMENTS

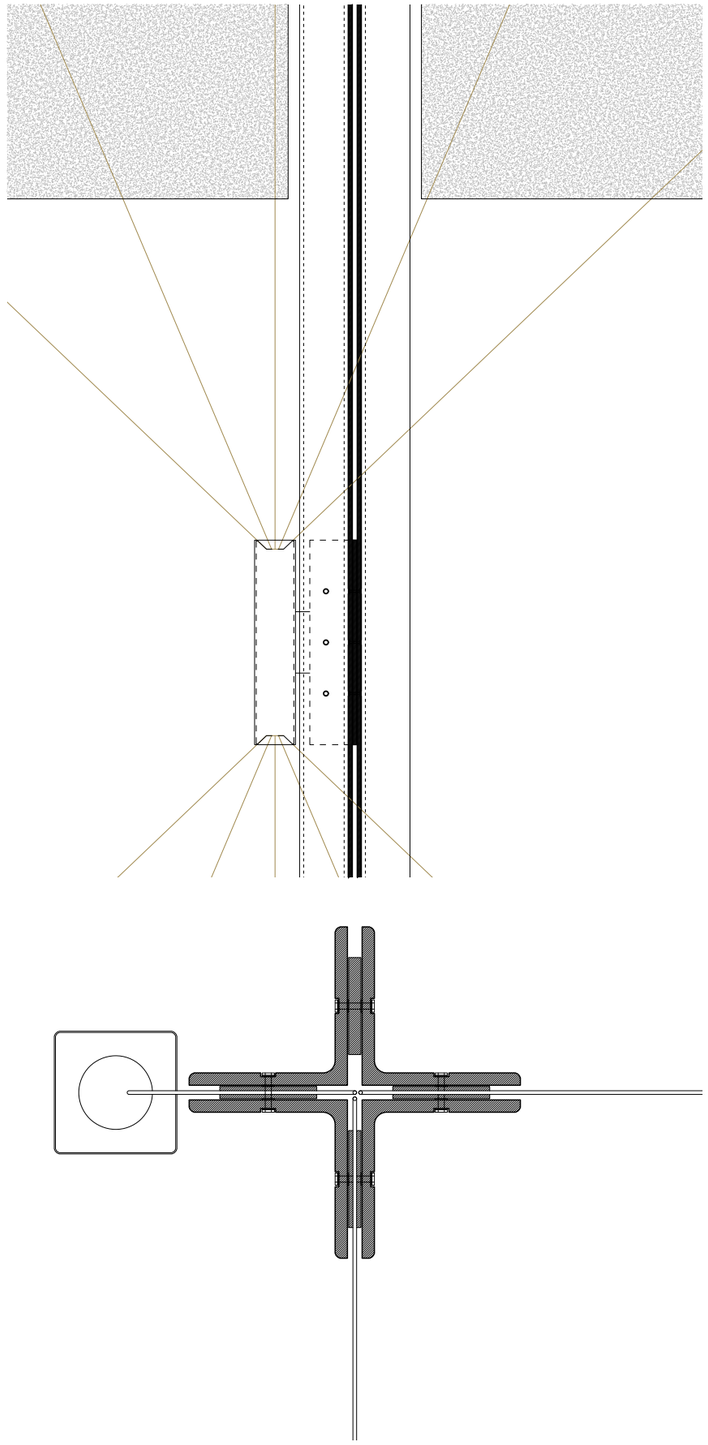




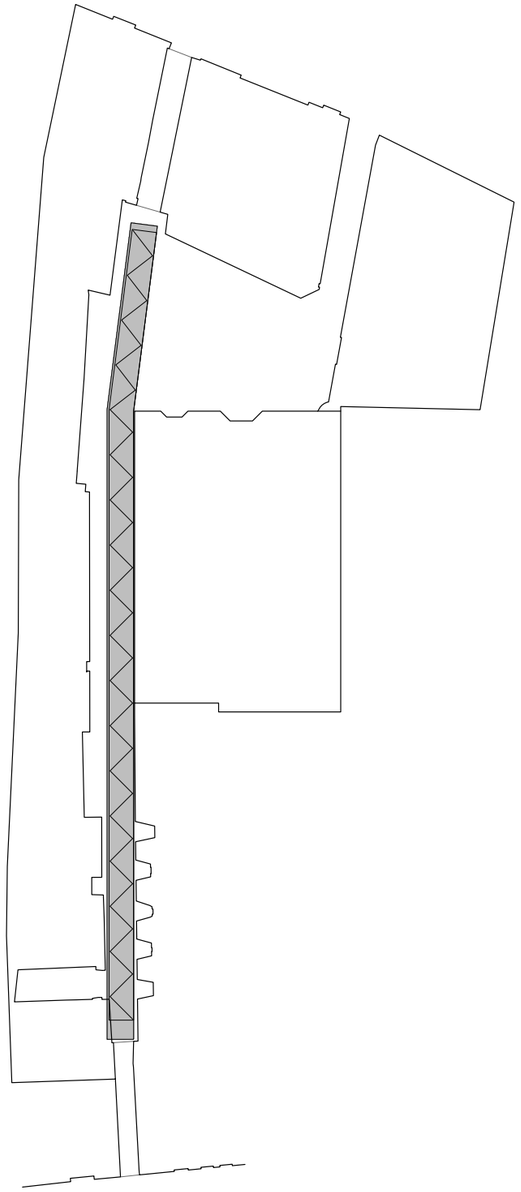
OPERABLE CURTAINS 0.5M

CURTAINS UP

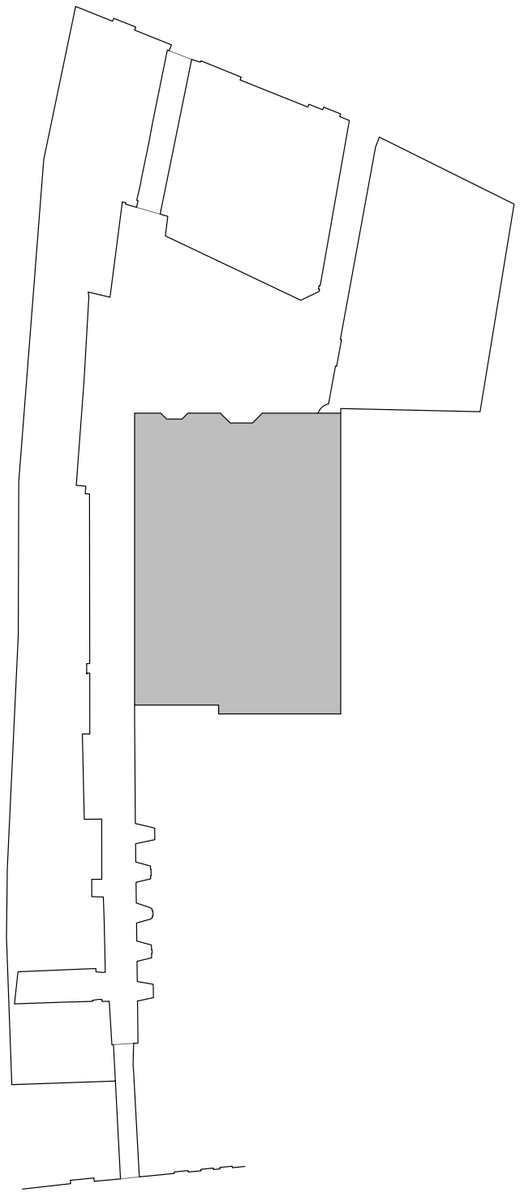
CURTAINS DOWN



LIGHTING



PASSAGE



HISTORIC RENOVATION

Technical indicators of the building

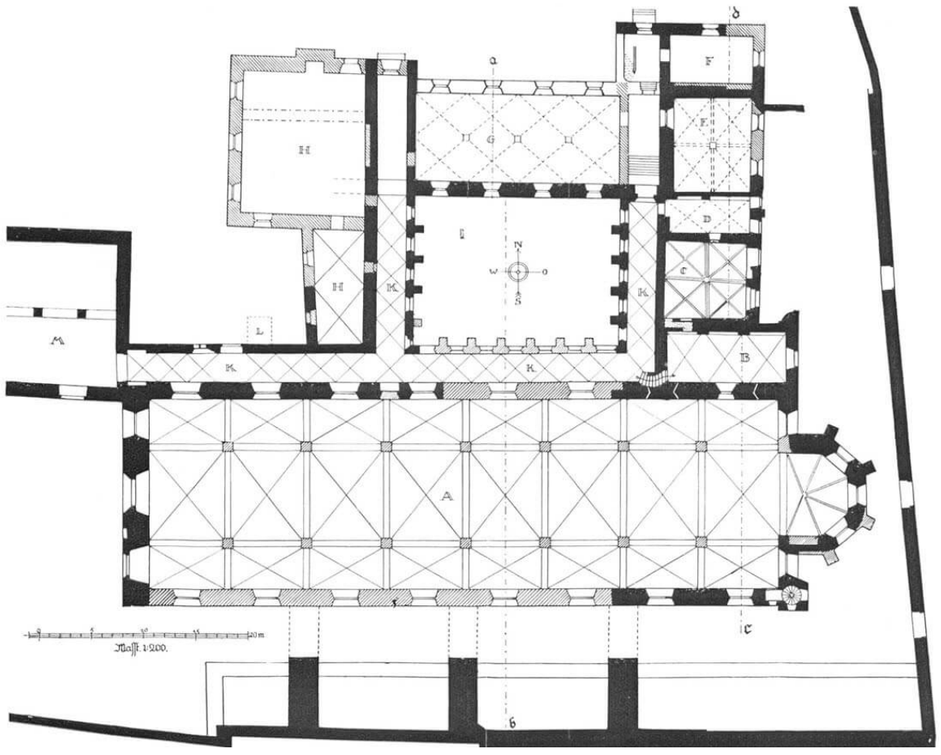
	Application details	EHR data
	I mark all technical indicators as missing ⓘ	
Type of electrical system	võrk;	network
Type of water supply	puudub;	missing
Type of sewage	puudub;	missing
Type of heat supply ⓘ	kohtküte;	local heating
Type of heat source	elektriotseküte;	direct electric heating
Type of energy source	elekter;	electricity
Type of ventilation		
Type of cooling system		
Mains or tank gas ⓘ	puudub	missing
Number of elevators	0	0

Height (m) ⓘ	10,8	11.8
Absolute height (m) ⓘ	18,3	19.5
Built-up area (m2) ⓘ	638,4	638.4
Area under the ground part (m2) ⓘ	638,4	638.4
Heated surface (m2) ⓘ	678,0	
Surface at room temperature (m2) ⓘ	0,0	
Closed net area (m2) ⓘ	678,0	678.0
Common area (m2) ⓘ	0,0	0.0
Technical area (m2) ⓘ	0,0	0.0

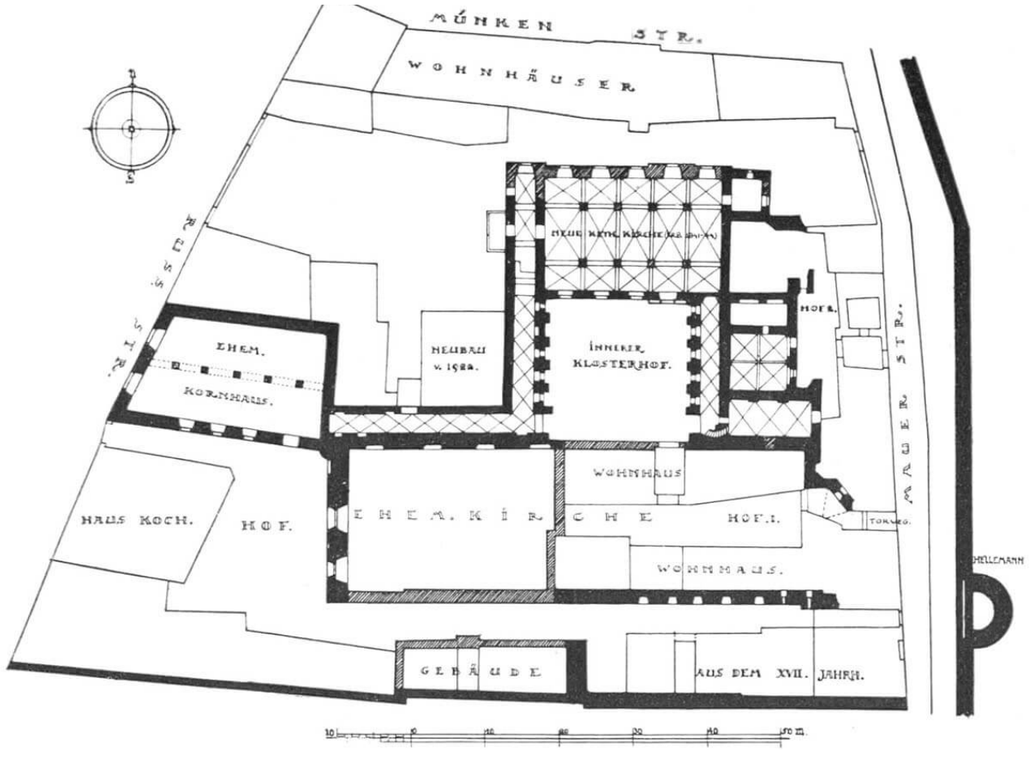
EXISTING CONDITIONS

1. RENOVATION

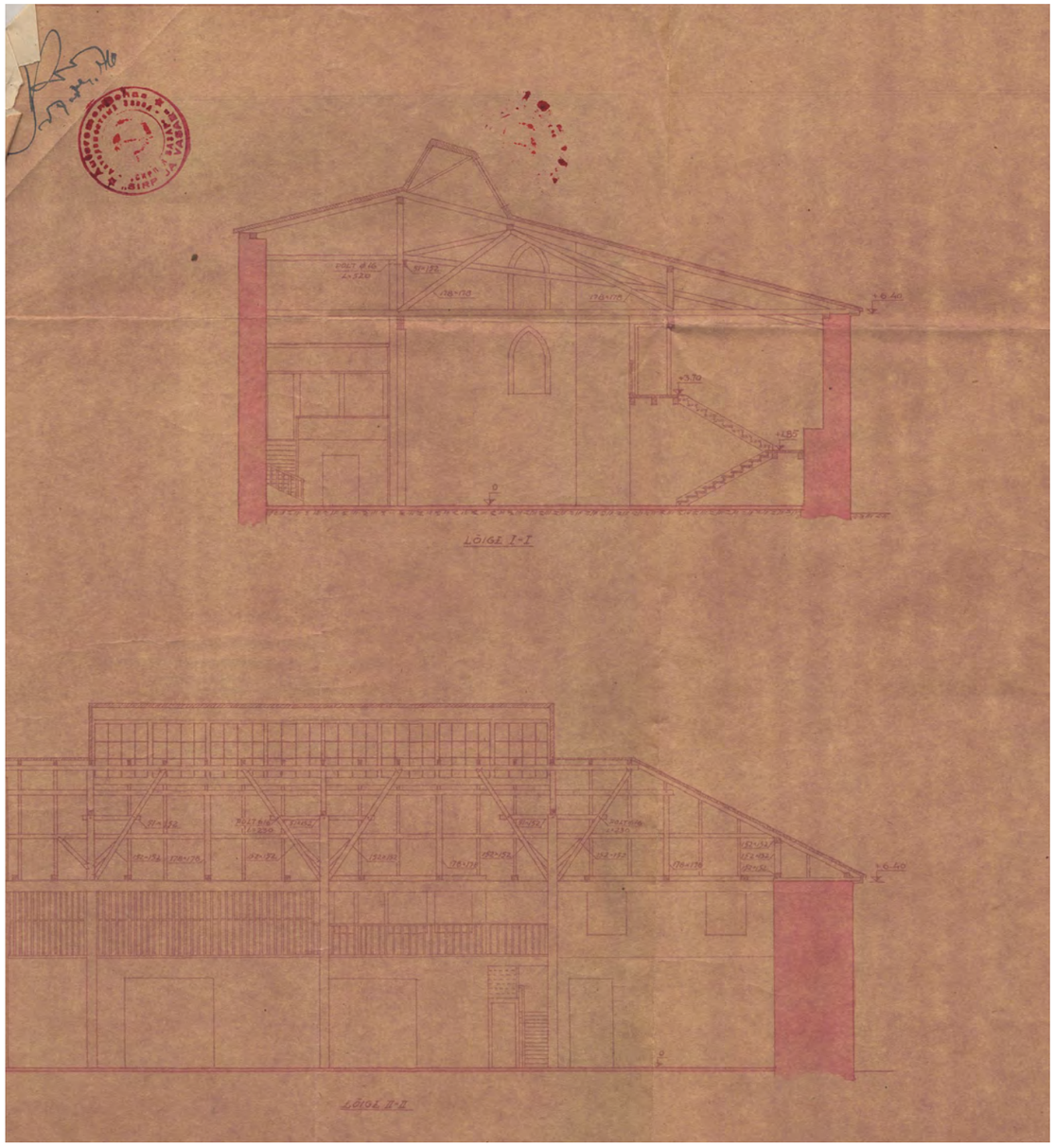
2. MAKER SPACE

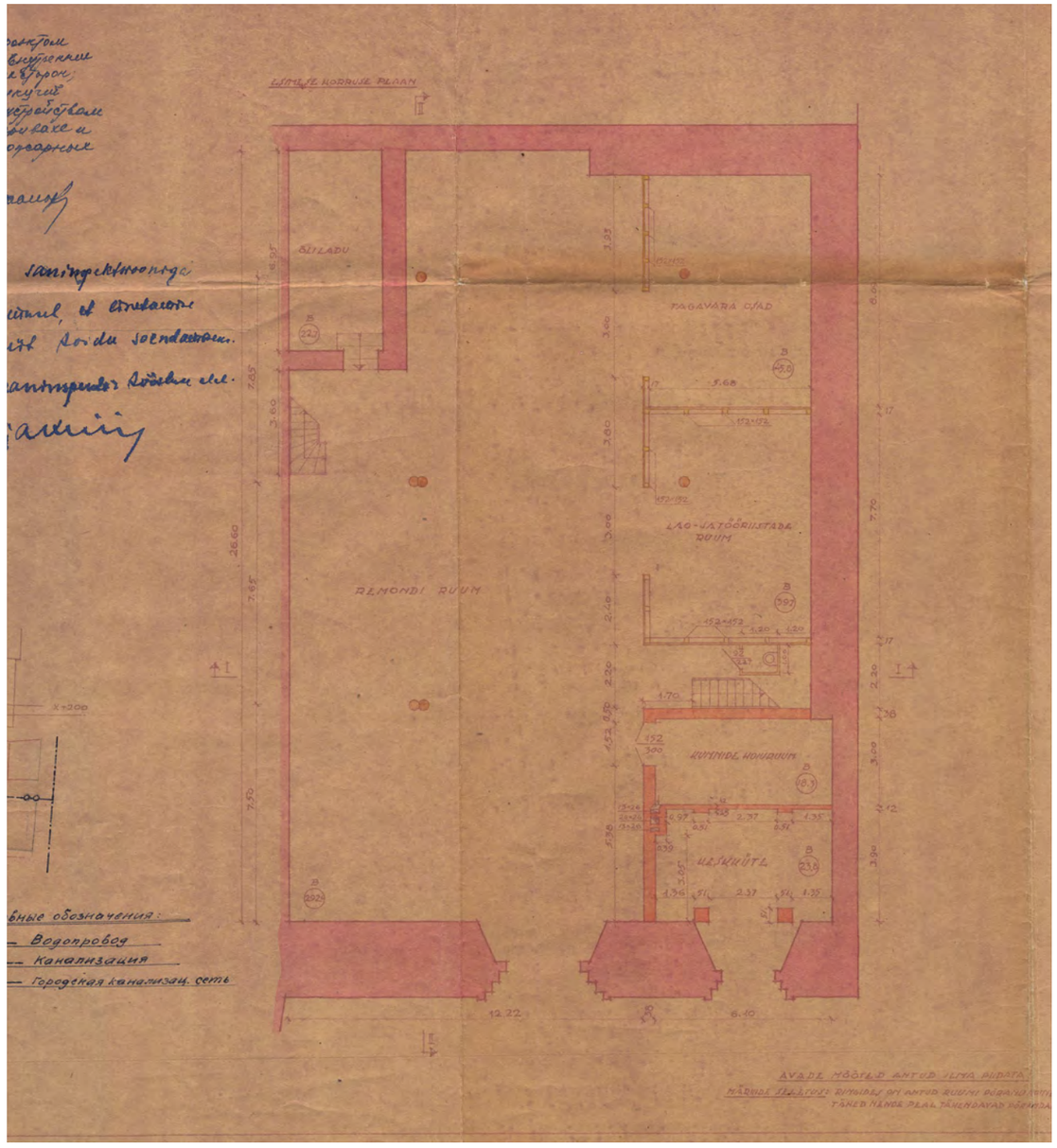


ORIGINAL CONSTRUCTION



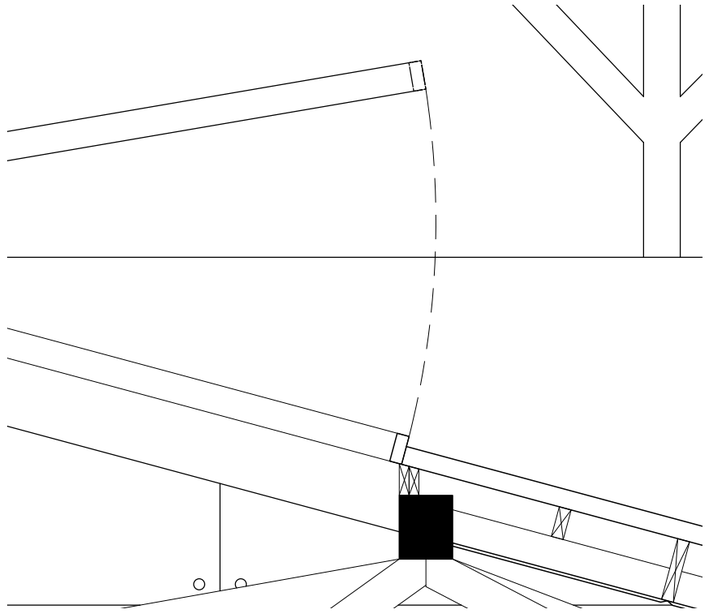
EARLY 1900S

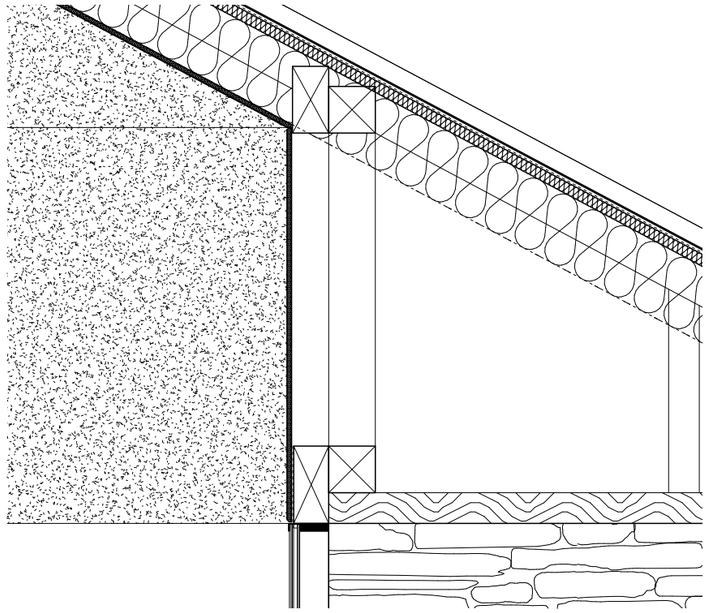




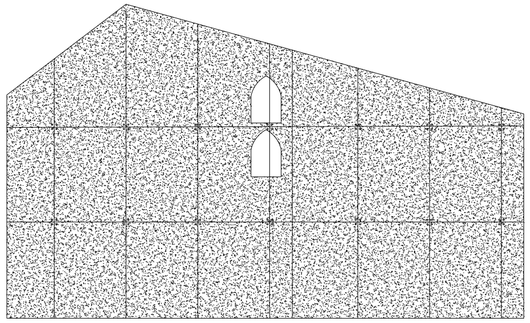
1946 CAR REPAIR GARAGE

EXISTING

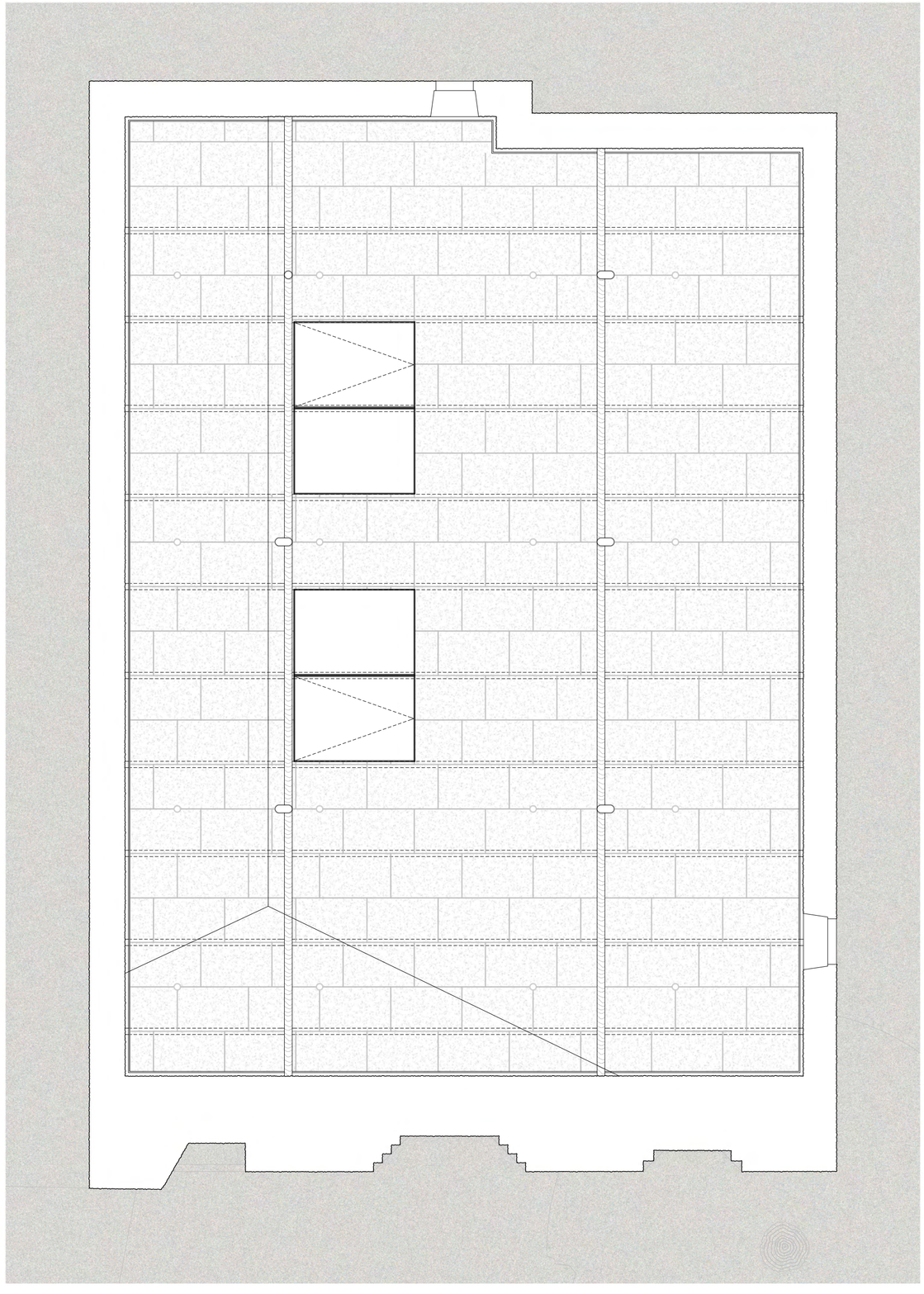




ROOF RENOVATION



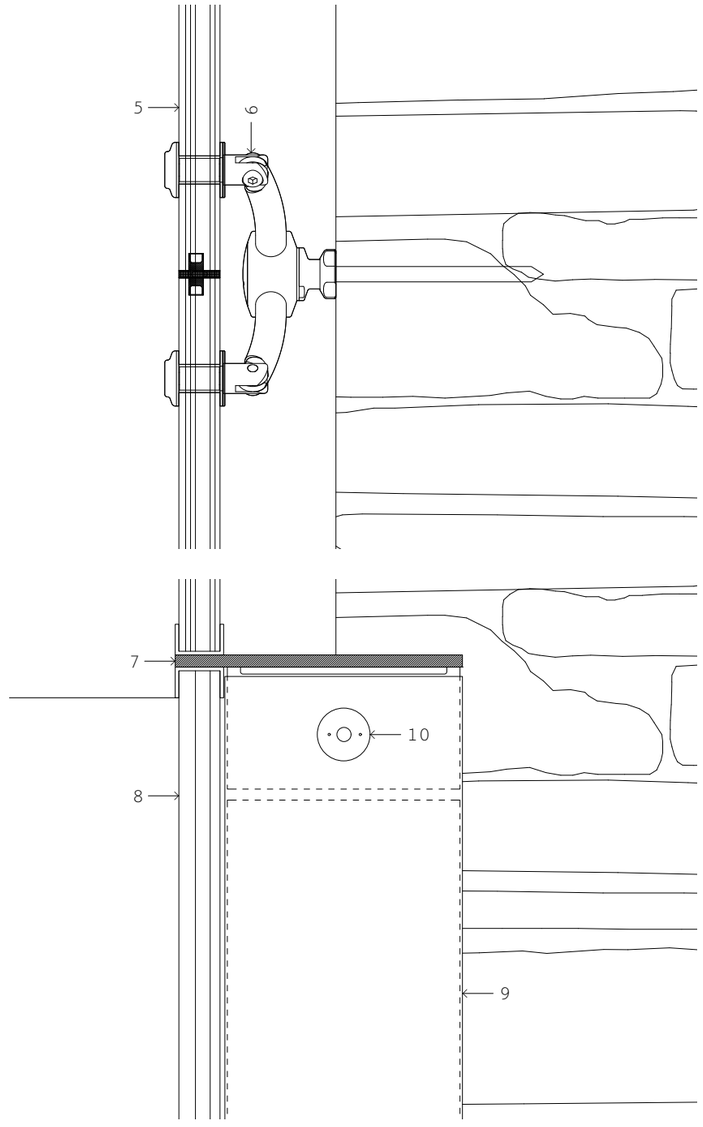
The ruins of the Katariina church have been renovated to improve their functional use. Currently the city rents the space for exhibitions and events in the warmer months, but due to the lack of a thermal envelope the space is unusable for much of winter. The proposed renovation of the church would involve the installation of a skylight to provide more natural light and ventilation. The ceiling is insulated and finished with acoustic paneling to improve the thermal envelope and provide sound proofing. Finally, to combat the heat loss from the historic limestone walls, insulated glazing is wrapped around the interior, ensuring the visibility of the historic stone walls while also closing off the thermal envelope.



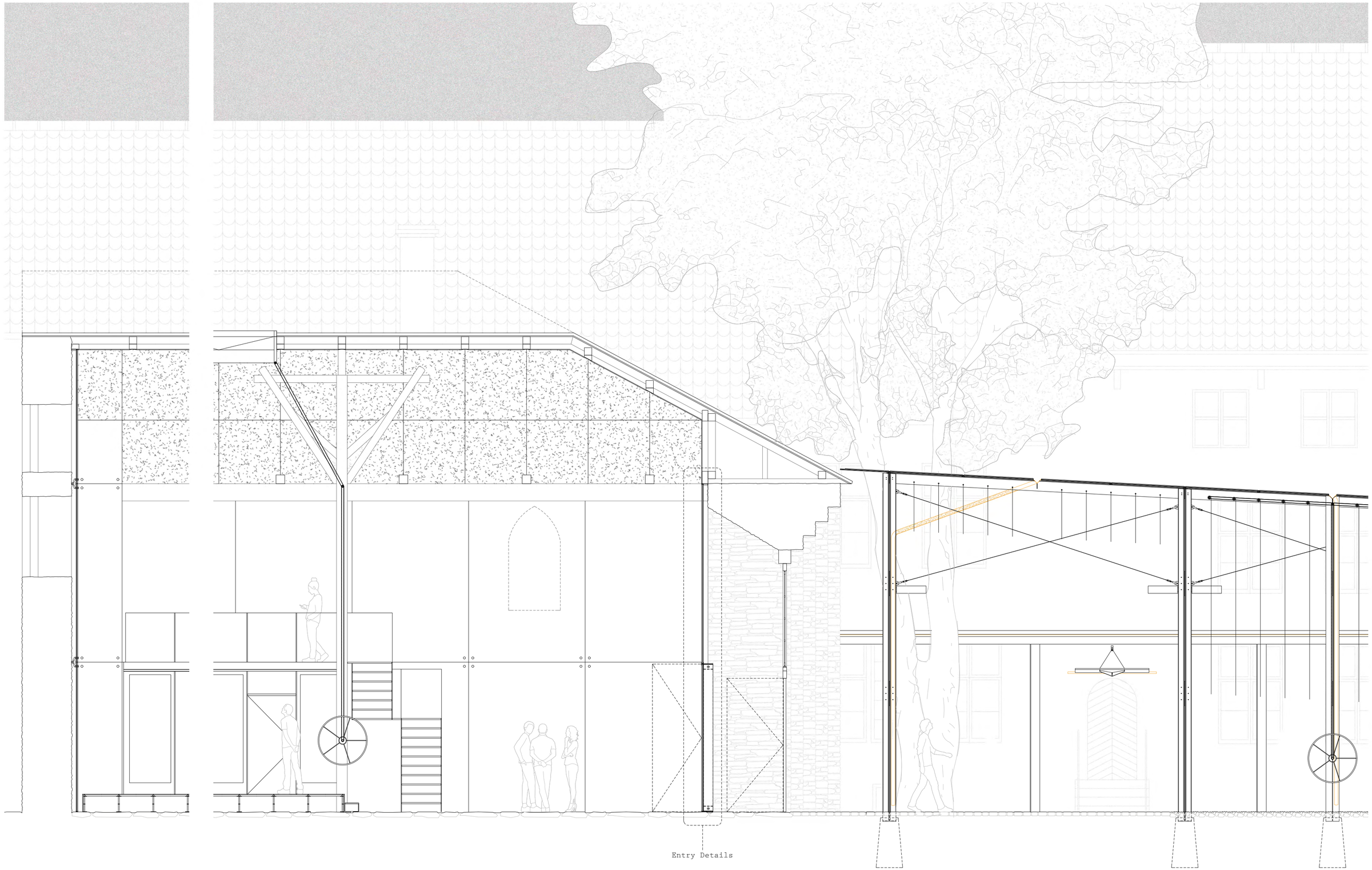
KATARIINA CHURCH CEILING PLAN 1:100

0 1 5

KATARIINA CHURCH RENOVATION

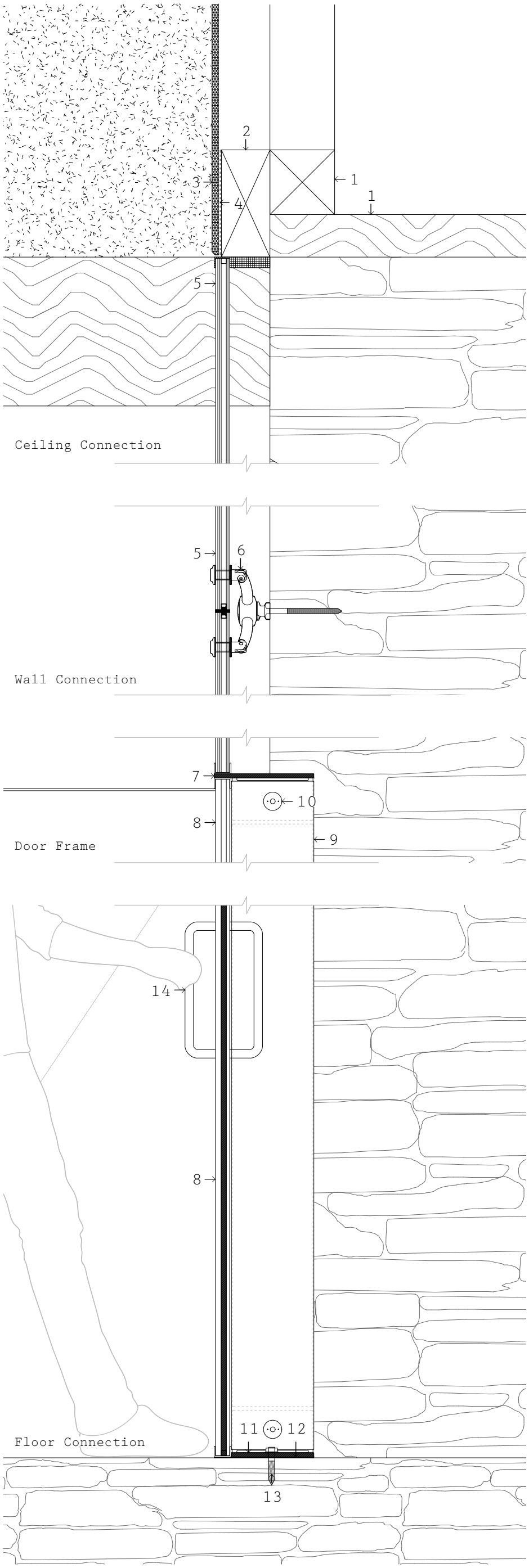


INSULATED GLASS INTERIOR FACADE



SECTION BB 1:50

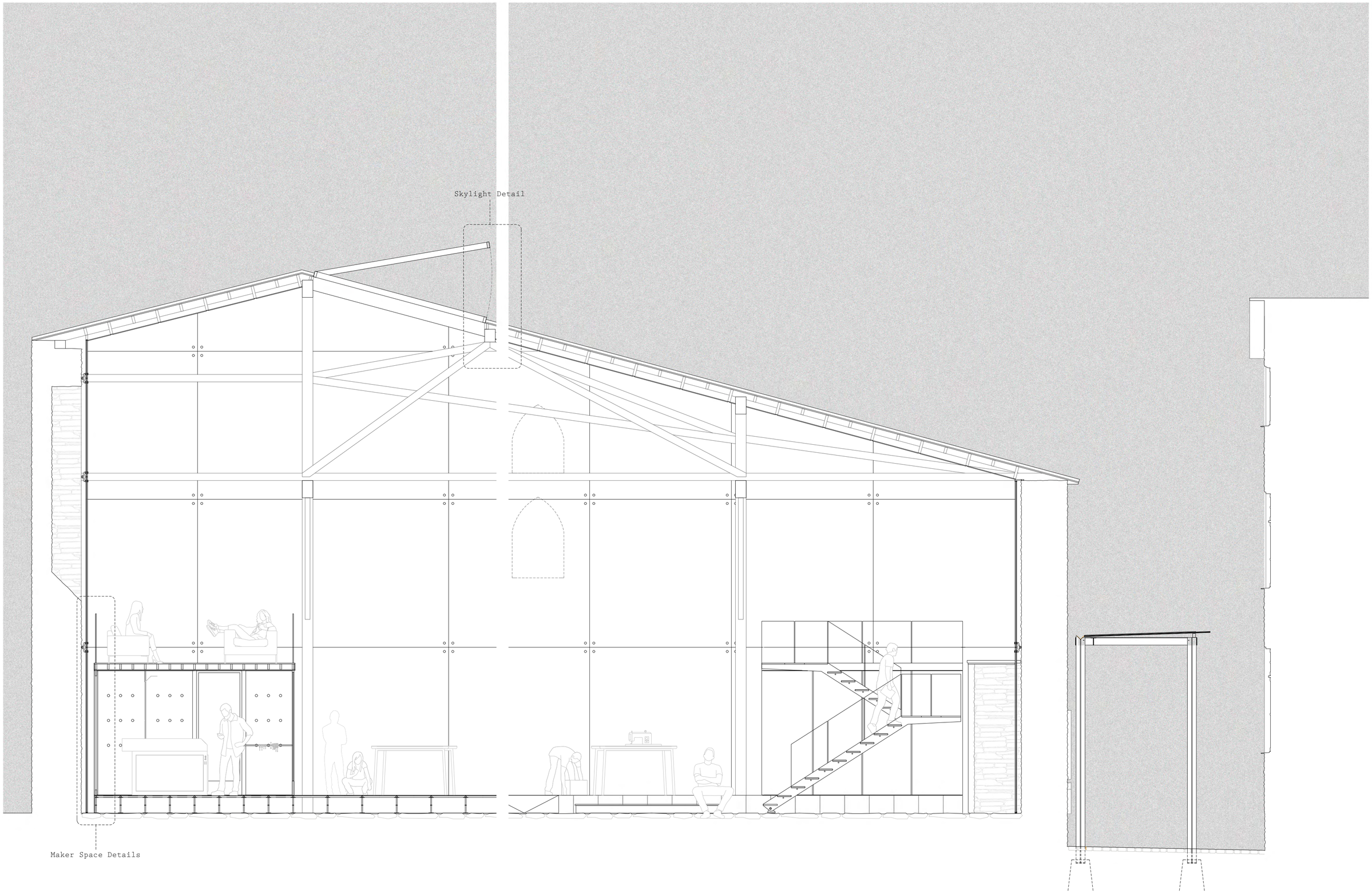
0 1 5



1. existing timber framing
2. new timber framing for ceiling renovation
3. polyester fiber acoustic panel 15mm, typical panel size 2000/1250
4. panel adhesive
5. insulated glass covering over historic stone wall 34mm, panels are custom fit within existing structure
6. spider glass anchor bolt
7. blackened steel sheet 10mm
8. double swing door, toughened glass 3000/1000 with blackened steel inlay
9. structural glass column for door frame
10. aluminum point fixing 12mm
11. steel connection plating 10mm
12. non-shrink grout
13. anchor bolt
14. blackened steel door handle

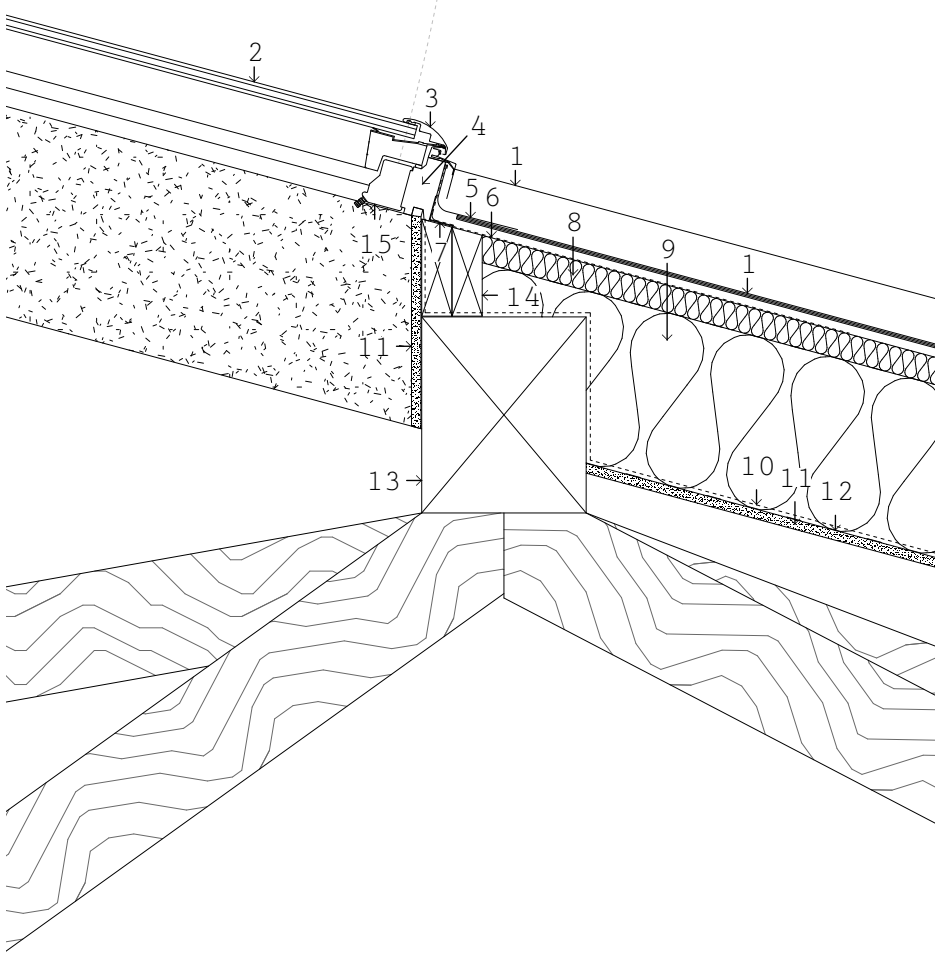
INTERIOR GLAZING DETAILS 1:10

MAKERSPACE

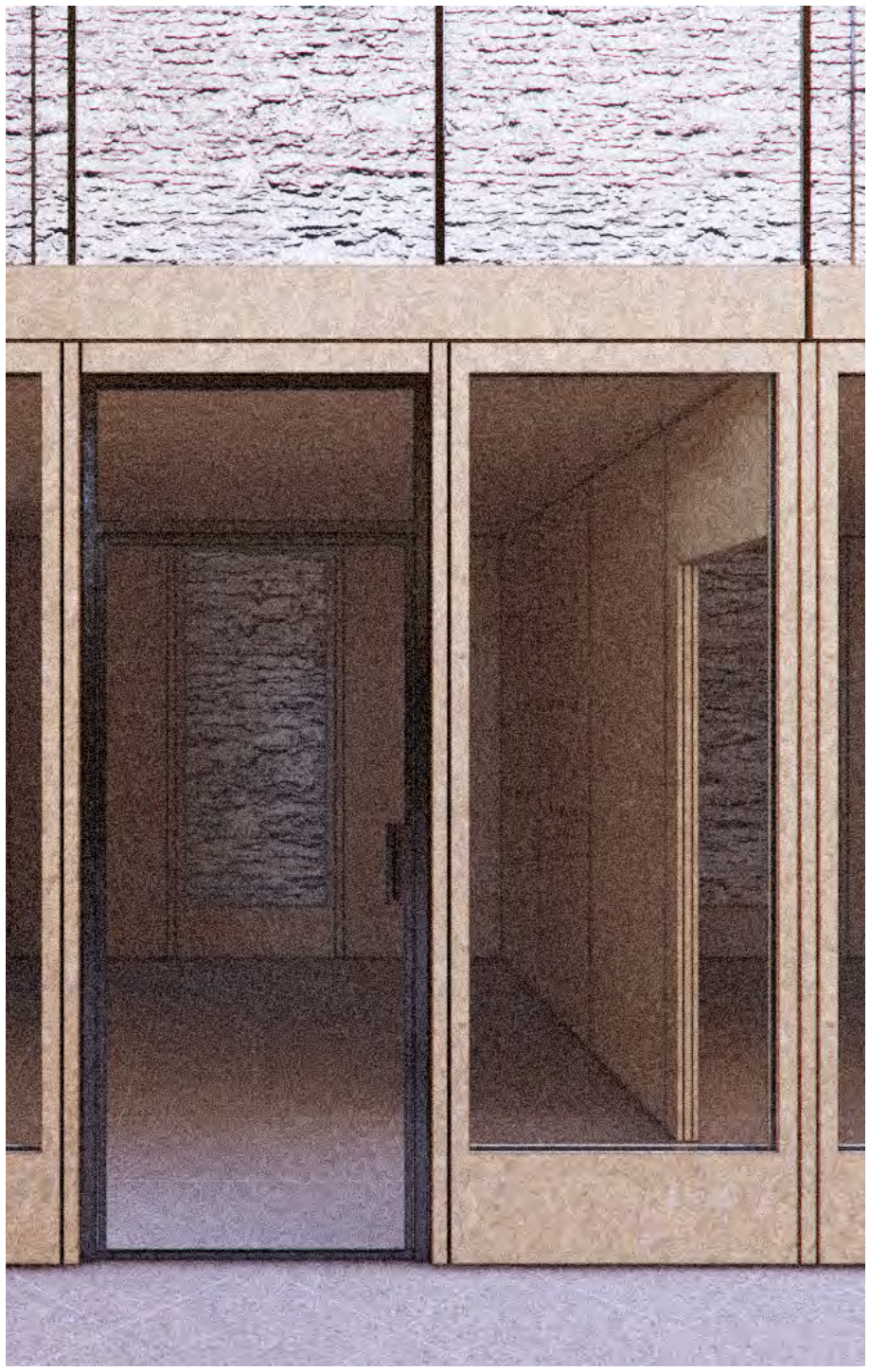


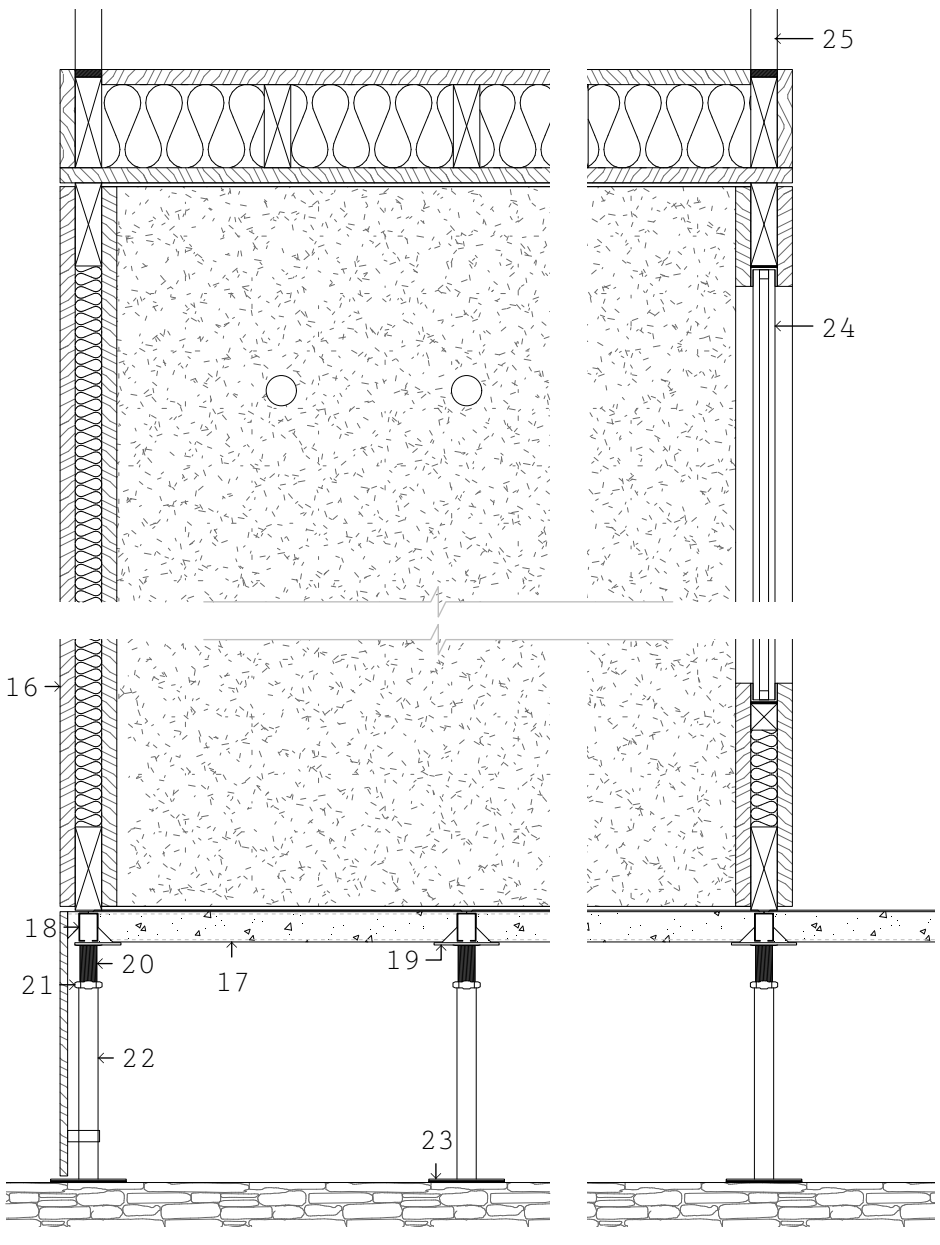
SECTION CC 1:50

0 1 5



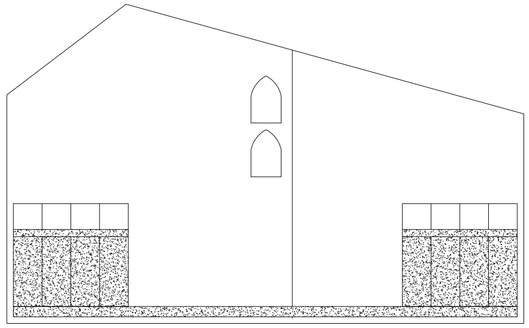
Skylight Detail



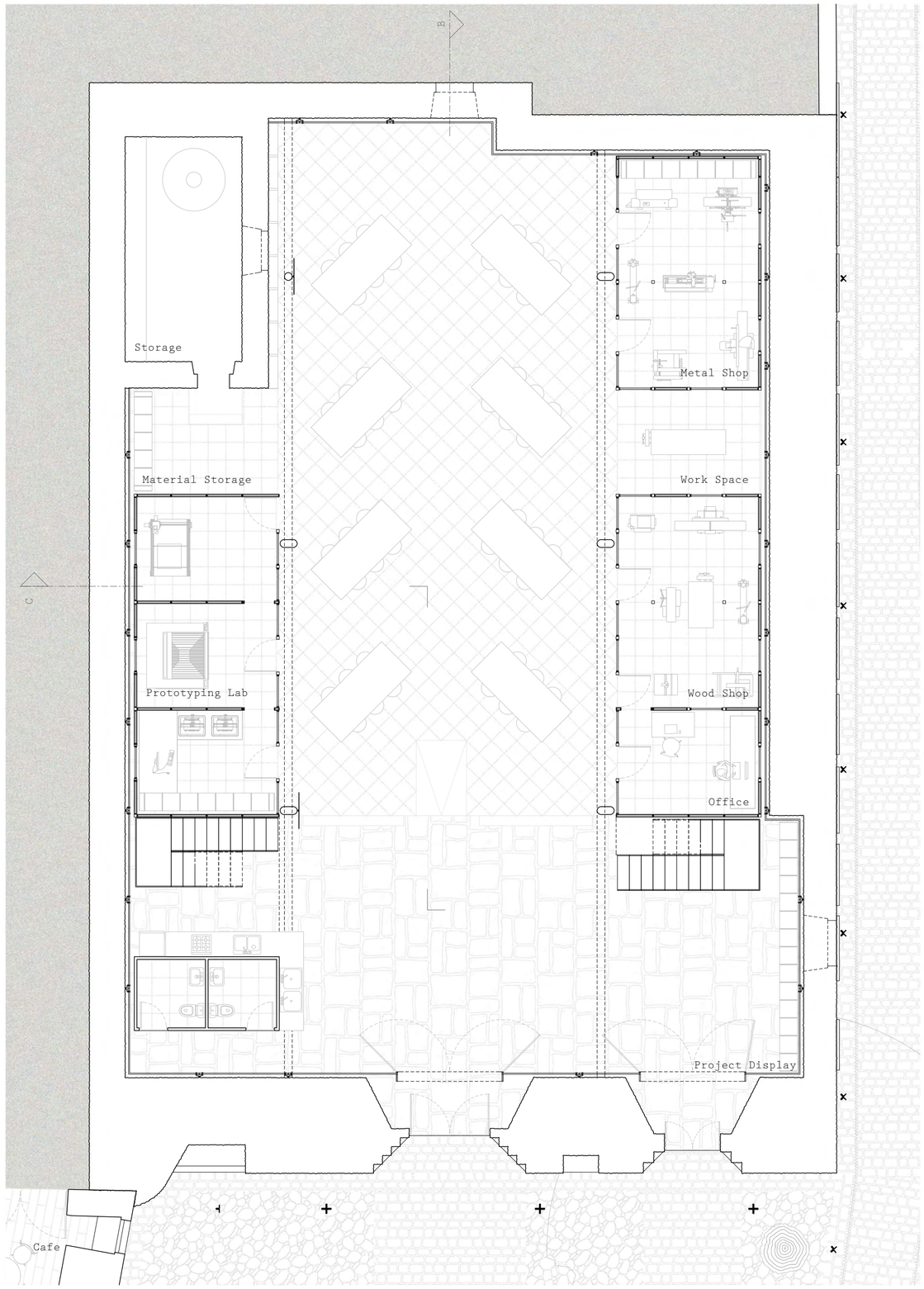


1. tin roof shingles
2. operable skylight for ventilation
3. steel extruded frame and sash handle
4. wooden frame and sash
5. sill flashing
6. adhesive underlayment
7. steel deck seal mounting bracket
8. wood fiber insulation boards 35mm
9. cellulose insulation 220mm
10. vapor barrier 0.5mm
11. polyester fiber acoustic panel 15mm, typical panel size 2000/1250
12. panel adhesive
13. existing timber framing
14. new timber block framing for skylight
15. manual operator with pvc cover and manual hook
16. OSB insulated sandwich panel
17. raised floor panel, 40mm concrete reinforced core with 2mm laminate finish
18. galvanized steel stringer
19. galvanized steel pedestal head
20. solid steel stud
21. leveling nut
22. steel pedestal tube
23. galvanized steel plate with rubber footing
24. OSB insulated sandwich panel with glazing
25. railing: 35/10mm blackened steel post and handrail

MAKERSPACE DETAILS 1:10



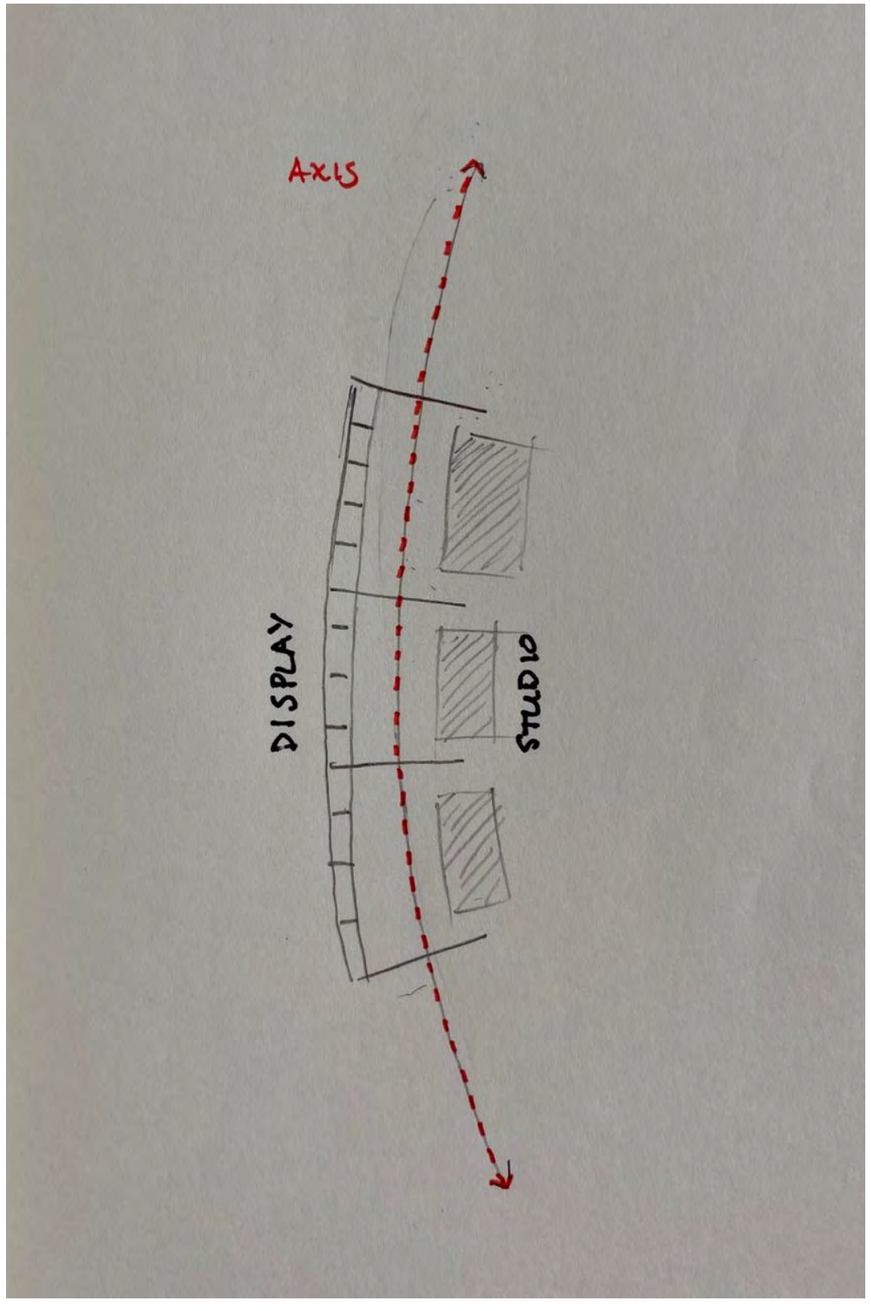
The Centrinno group helped launch a makerspace pilot project in Tallinn in 2022, and thus such a project was started at Kopli 93. Due to its success and the high volume of users the current acting organizers have begun planning the opening of another 7 makerspaces throughout the city. My proposal is to include one of these makerspaces within the Katariina Church. In order to protect the historic architecture the makerspace is designed to slot into the existing building in a non-invasive way. A raised flooring system is used to protect the original stone floors from the makerspace tools. The raised flooring becomes a stage for creativity, with an open workspace in the center and enclosed rooms constructed from OSB sandwich panels on either side. Within these rooms would be the wood shop, metal shop, and prototyping lab.



KATARIINA CHURCH GROUND FLOOR 1:100

0 1 5

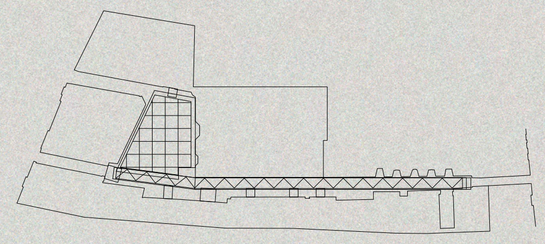
INTERIOR PROMENADE



to see and to be seen.

AXIS

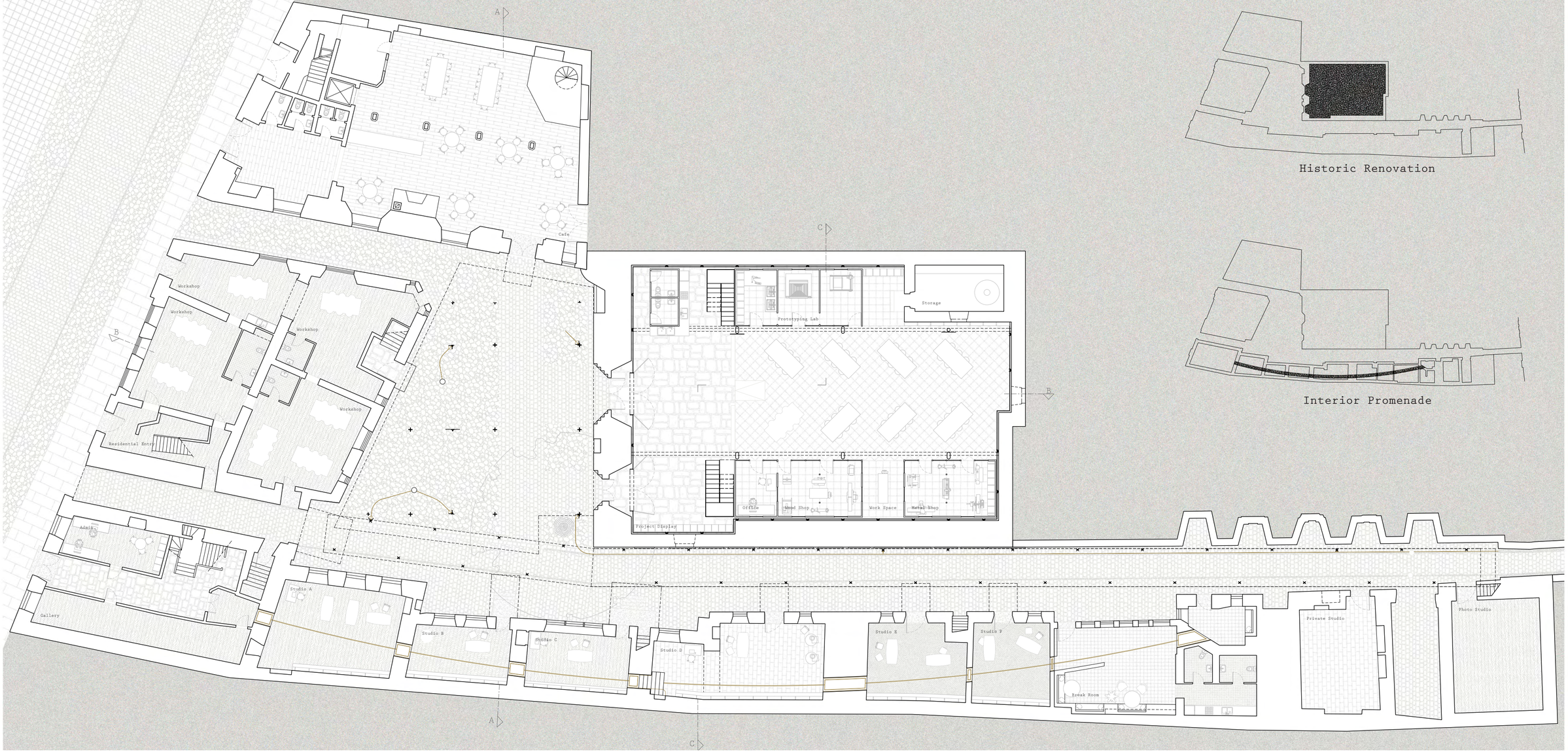
Nestled within the historic buildings of the Katariina Passage, the project comprises three main interventions. First, an exterior canopy that covers the courtyard and passageway, acting as the heart of the project and providing a new public space that is sheltered from the elements. Secondly, renovating the ruins of the Katariina church into a marketspace which can be used year round. Lastly, an interior promenade through the Katariina guild that serves as a unifier for the studio spaces.



Exterior Public Space

Historic Renovation

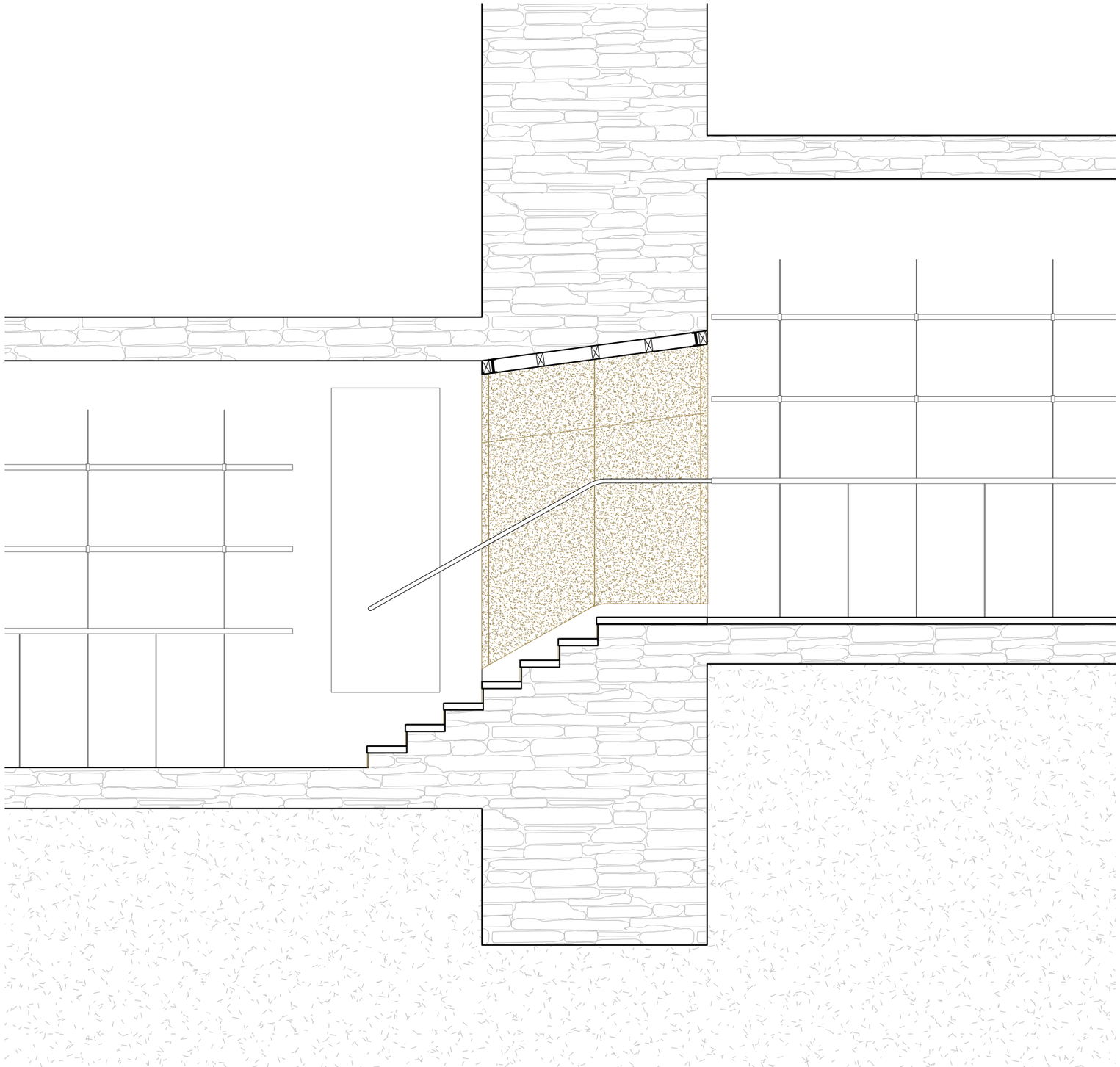
Interior Promenade



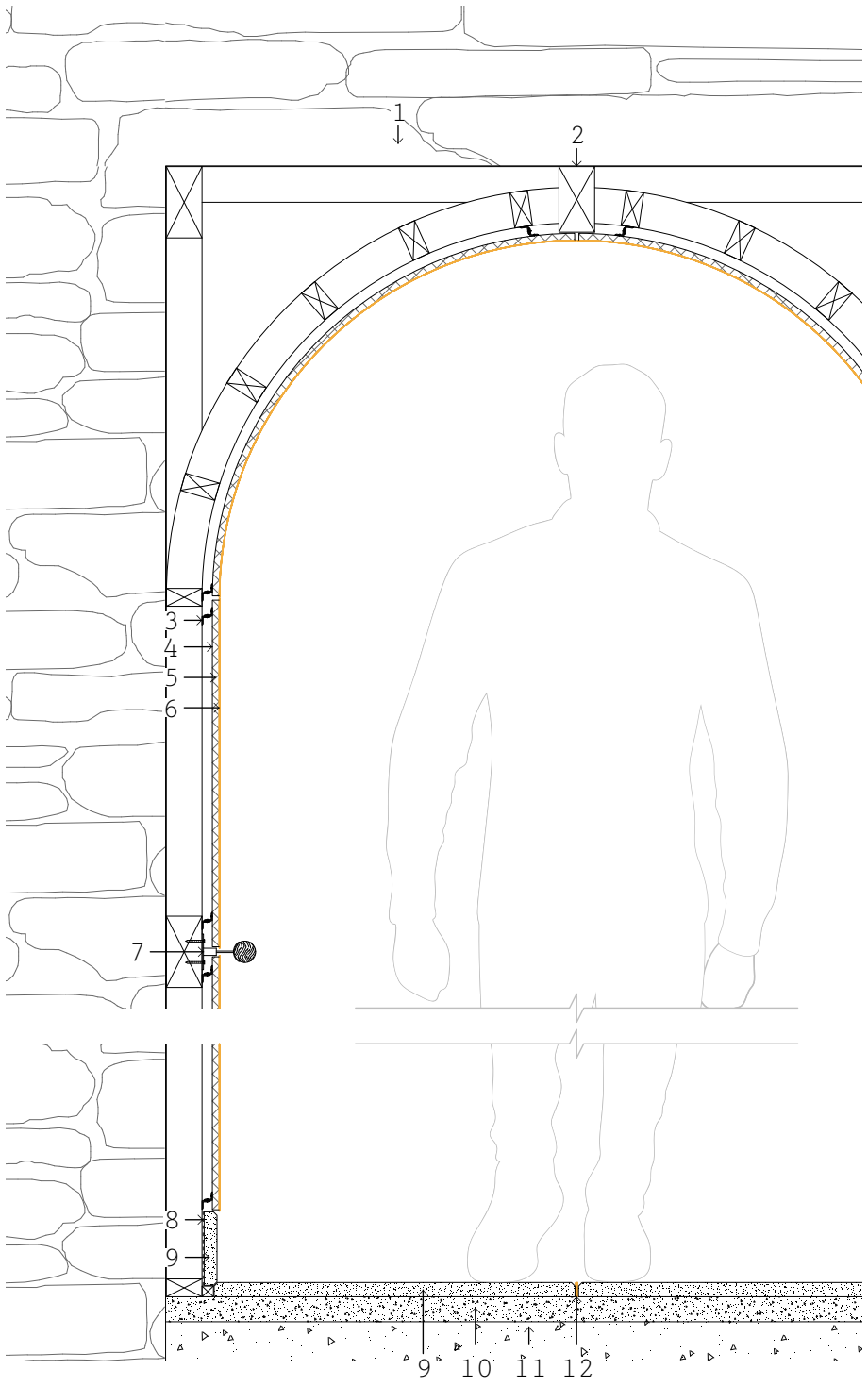
GROUND FLOOR 1:200

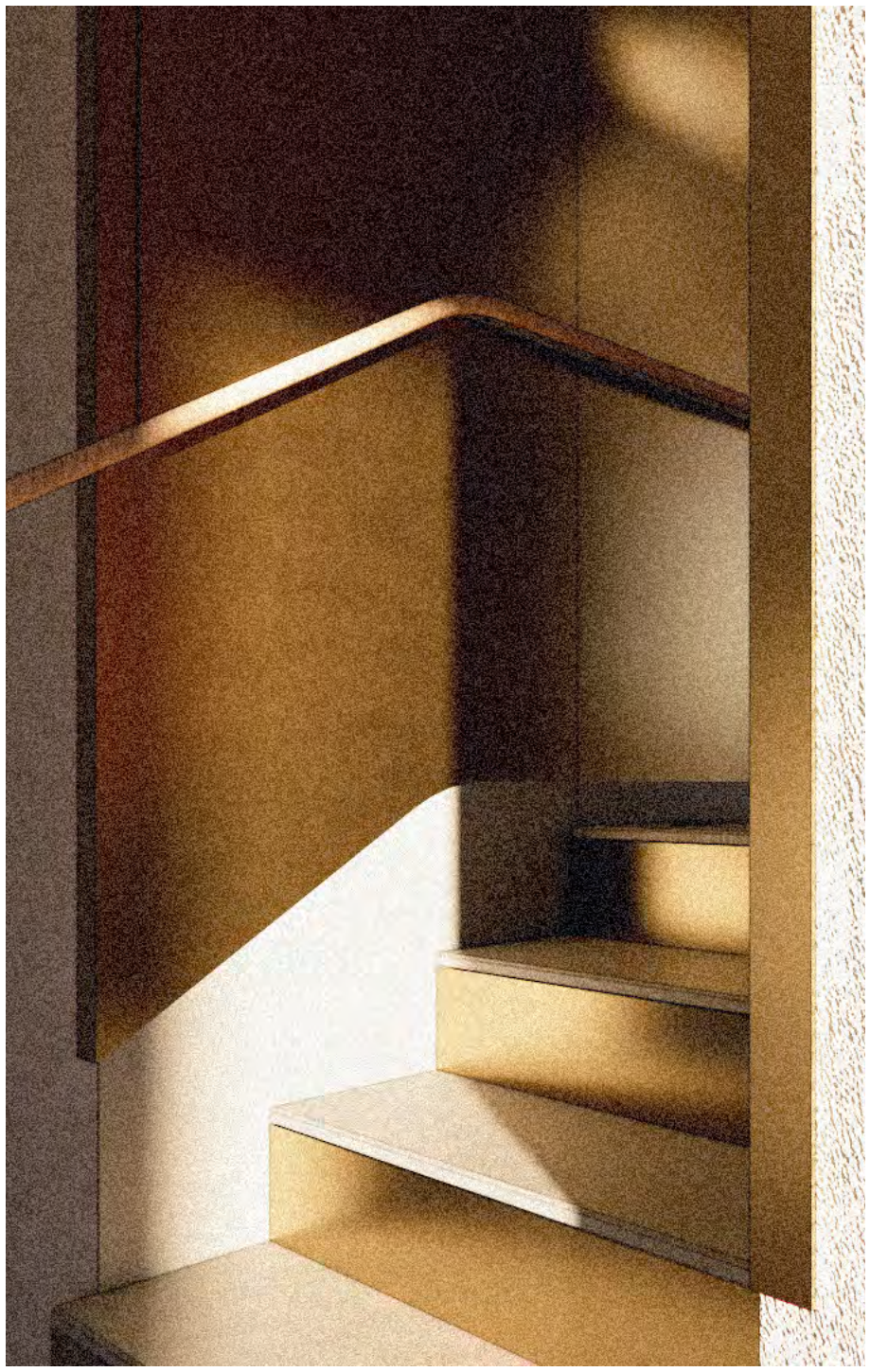
0 1 5 10

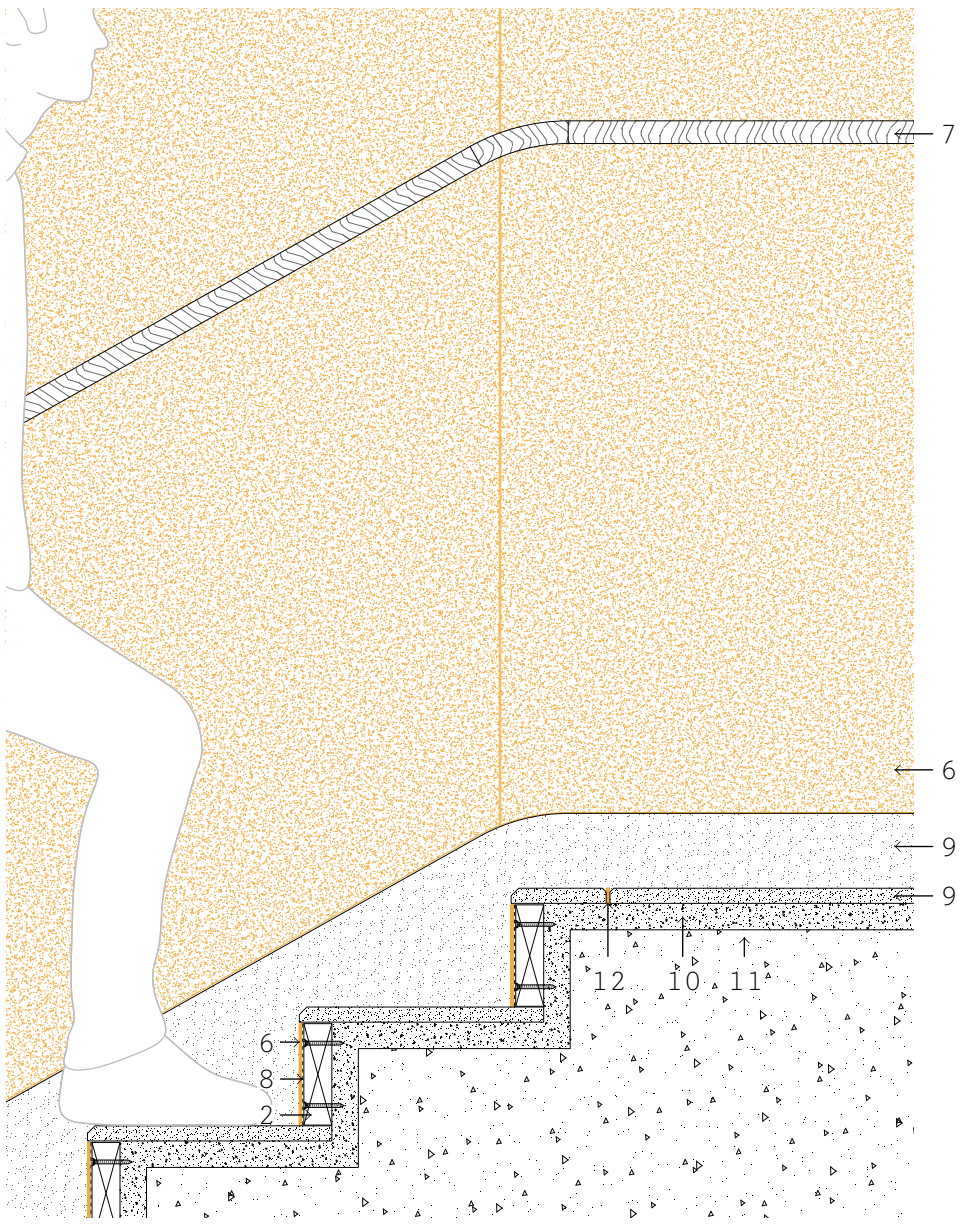
KATARIINA GUILD



WEAVING MATERIALS

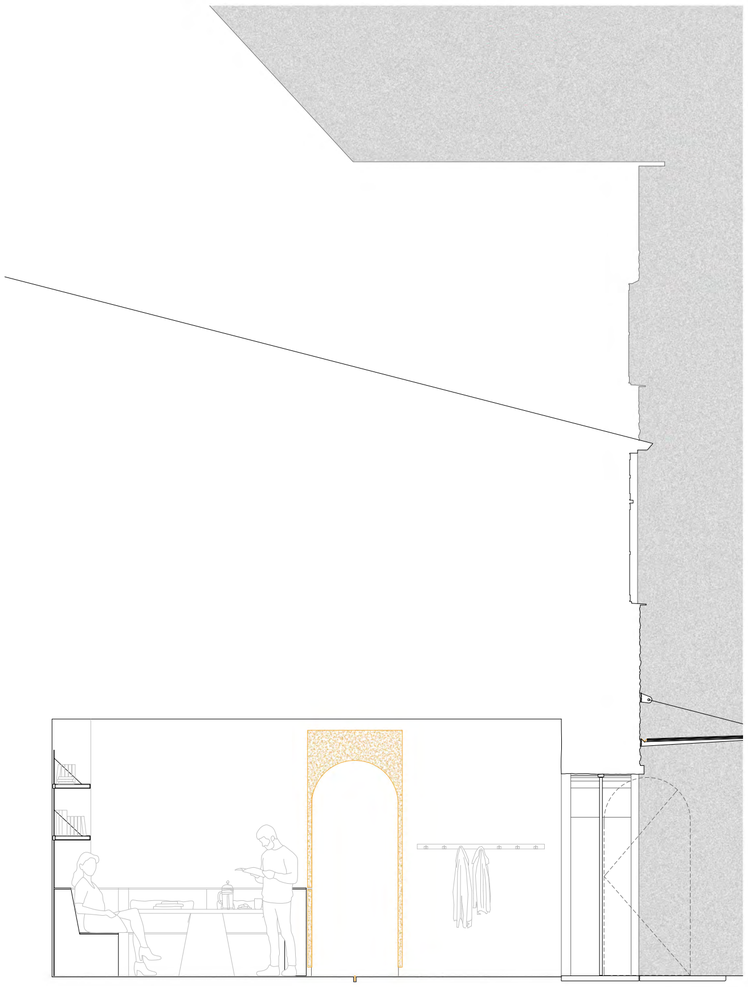




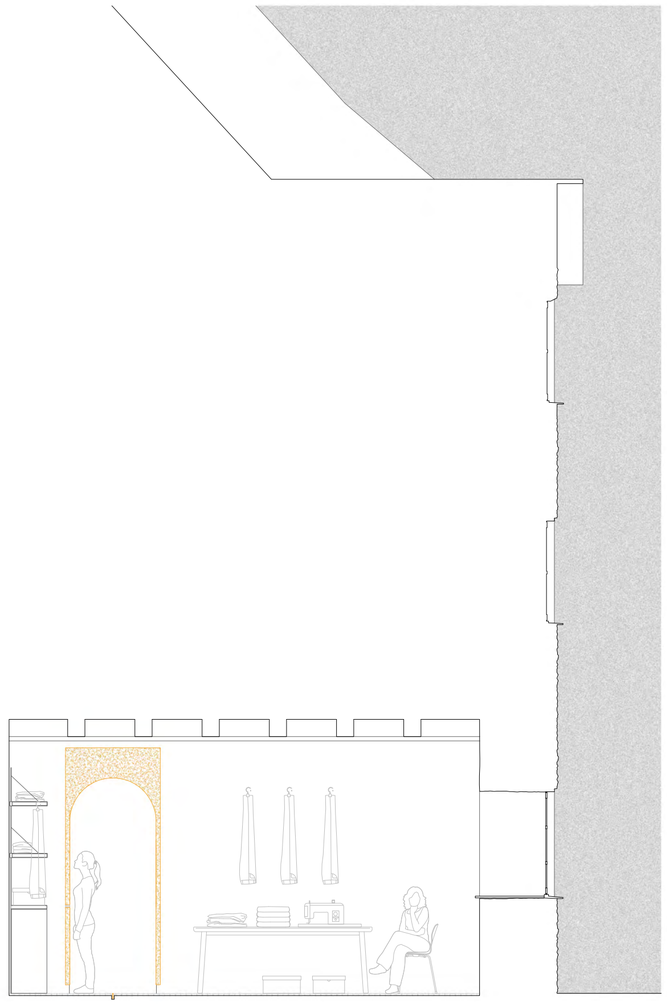


1. existing limestone wall
2. new timber block framing for threshold
3. support angle bracket
4. back panel
5. honeycomb core
6. brass panel
7. wooden handrail with steel support 30mm
8. panel adhesive
9. limestone paneling/riser/tread 18mm thick
10. concrete screed 35mm thick
11. waist slab
12. brass inlay strip

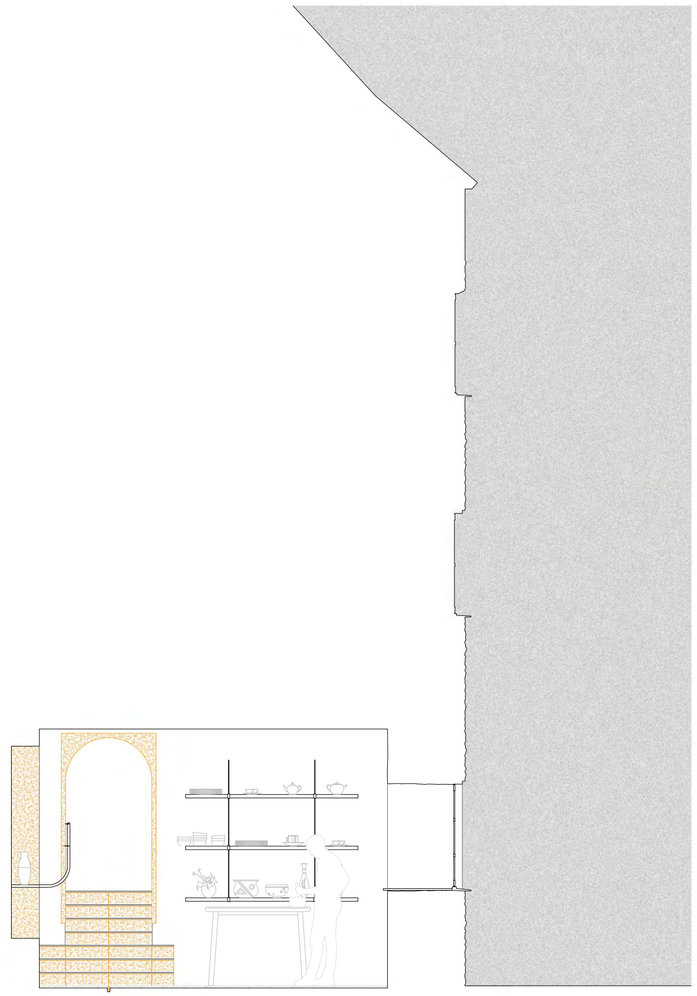
GUILD THRESHOLD DETAILS 1:10



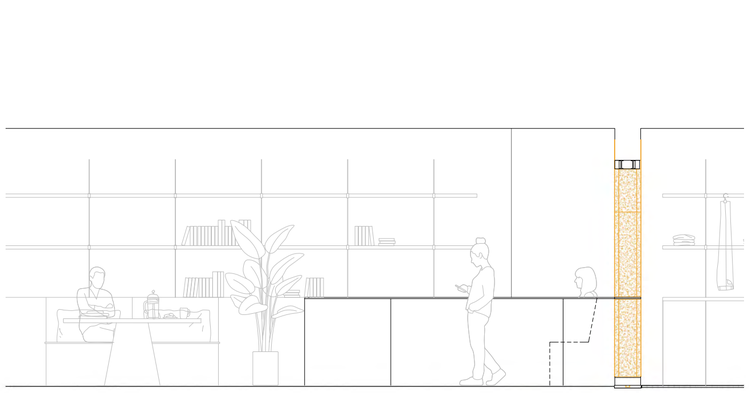
Break Room



Studio E

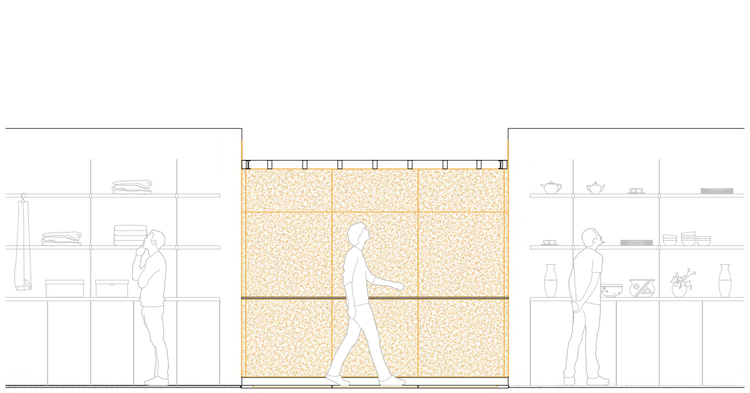


Studio C



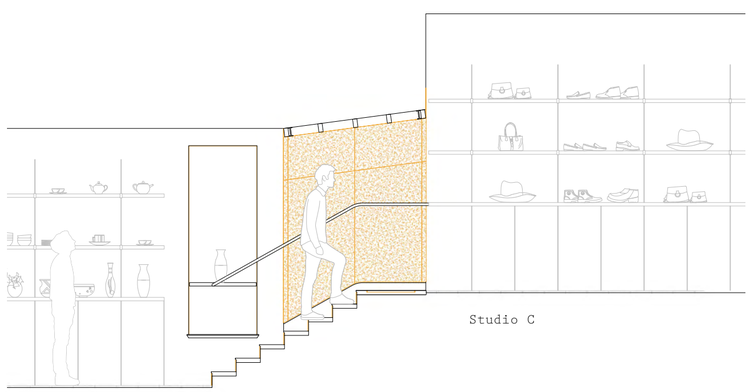
Break Room

Studio F



Studio E

Studio D



Studio C

Studio D

INTERIOR SECTIONS 1:50

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Architecture in this case, the pavilion, provides me with a body or better yet a skeleton to adorn with detailed objects. The existence of the body (the architecture) allows for the objects to become a design family all working off of the same framework.

COURTYARD PAVILION