

A wide-angle photograph of a coastal dune landscape. The foreground and middle ground are dominated by dry, golden-brown grasses and low-lying shrubs. A dirt path winds through the dunes, leading towards a small structure or antenna on a distant dune. The sky is a pale, overcast grey.

**A LANDSCAPE FOR LEARNING**  
Anchor points for exploration

**P5 PRESENTATION**

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Explore Iap 20/21

Architecture mentor	Sereh Mandias
Research mentor	Elise van Dooren
Building technology mentor	Hubert van der Meel
Delegate Board of Examiners	Luisa Calabrese

# INTRODUCTION

*“Public, nature, art and science are pillars of Oerol”*

- OEROL



Public



Nature



Art & Science

Public



Social & social-spatial  
interaction

Nature



Respecting the  
ecological context

Art & Science



Program & innovation

**LET'S EXPLORE!**



Public



Social & social-spatial  
interaction

An island



## An island

*“On the island, isolation broadens the horizon. An apparent paradox, which creates a tabula rasa for new ideas. The isolation changes common thinking patterns and manners.”*

- OEROL

An island



An island



An island

Temporary &  
Tourism

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Permanant &  
The islander



What if?

Visiting

An island



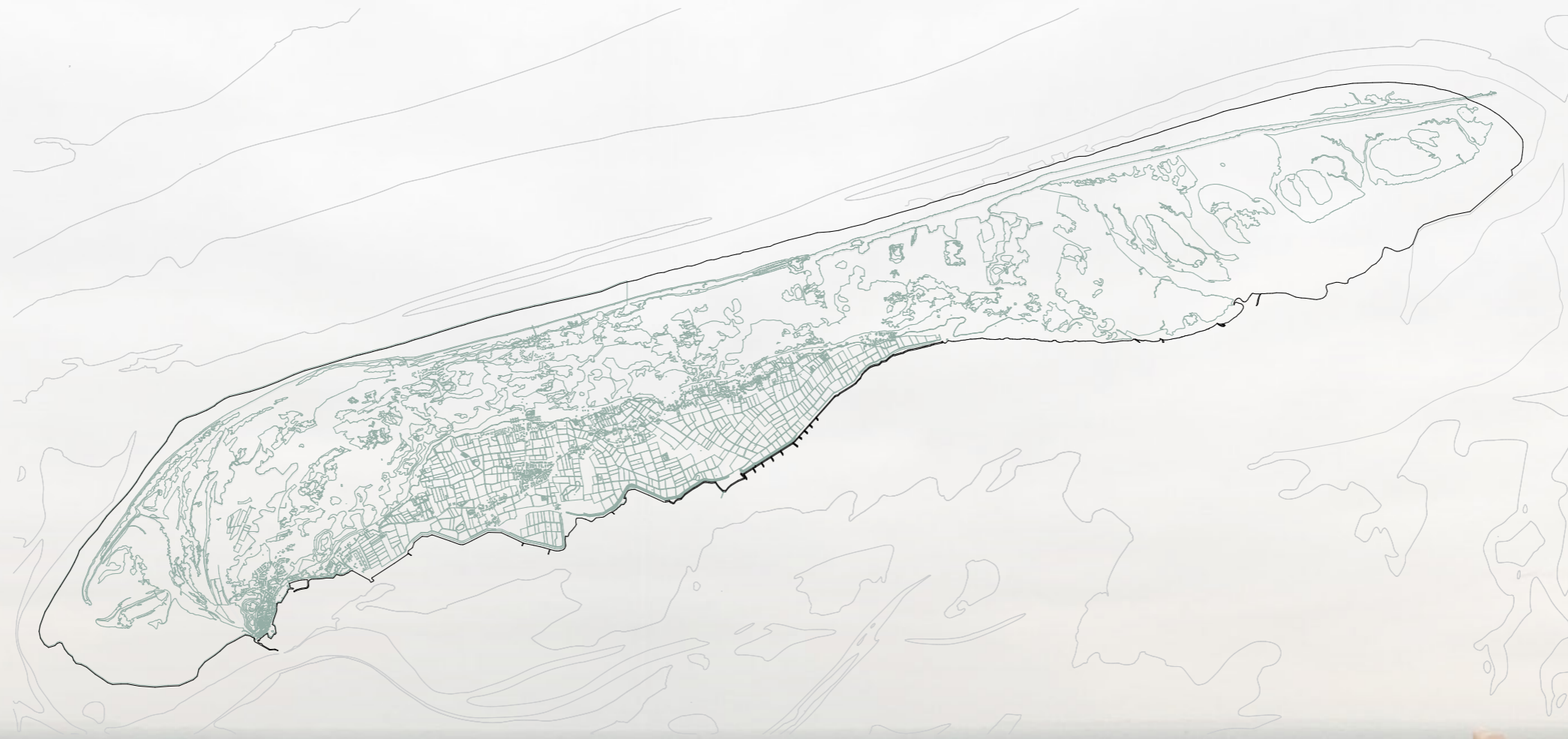
Visiting

An island



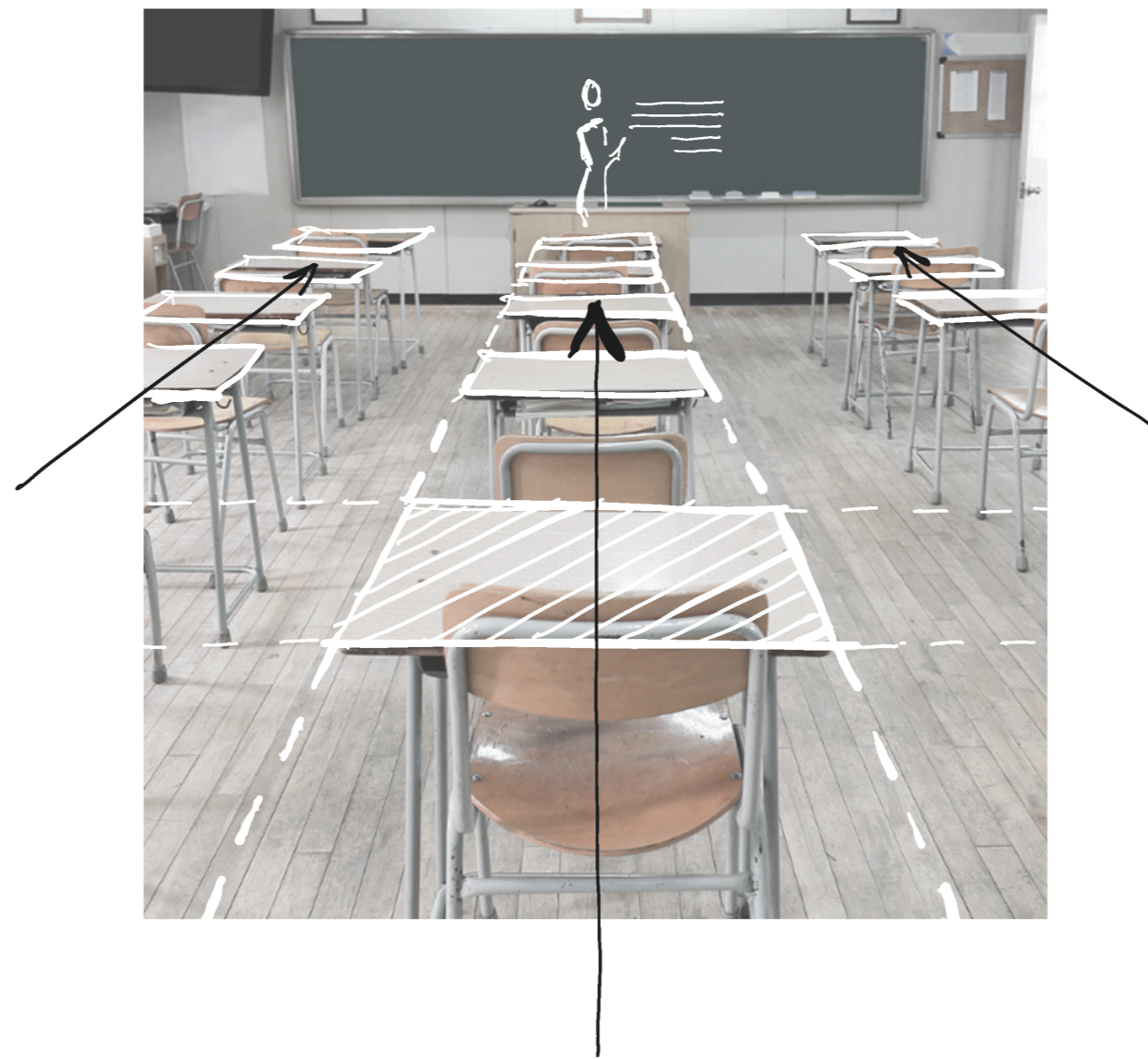
≠ only using it





Terschelling

Research

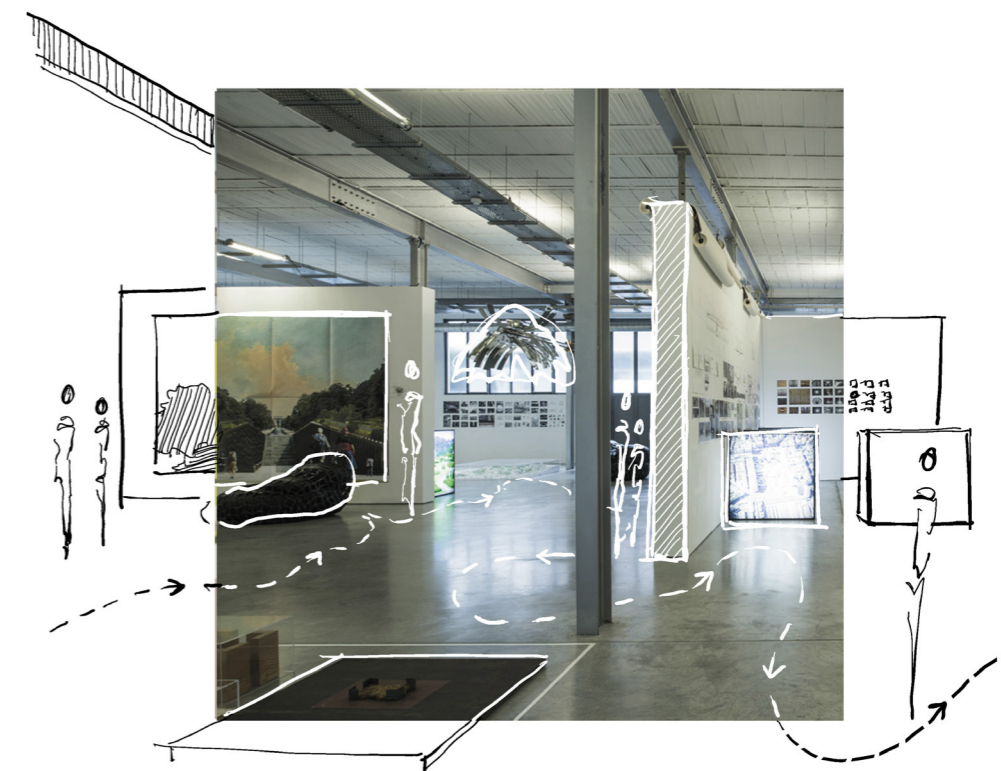


Learning spaces

Research



Learning spaces



Realistic

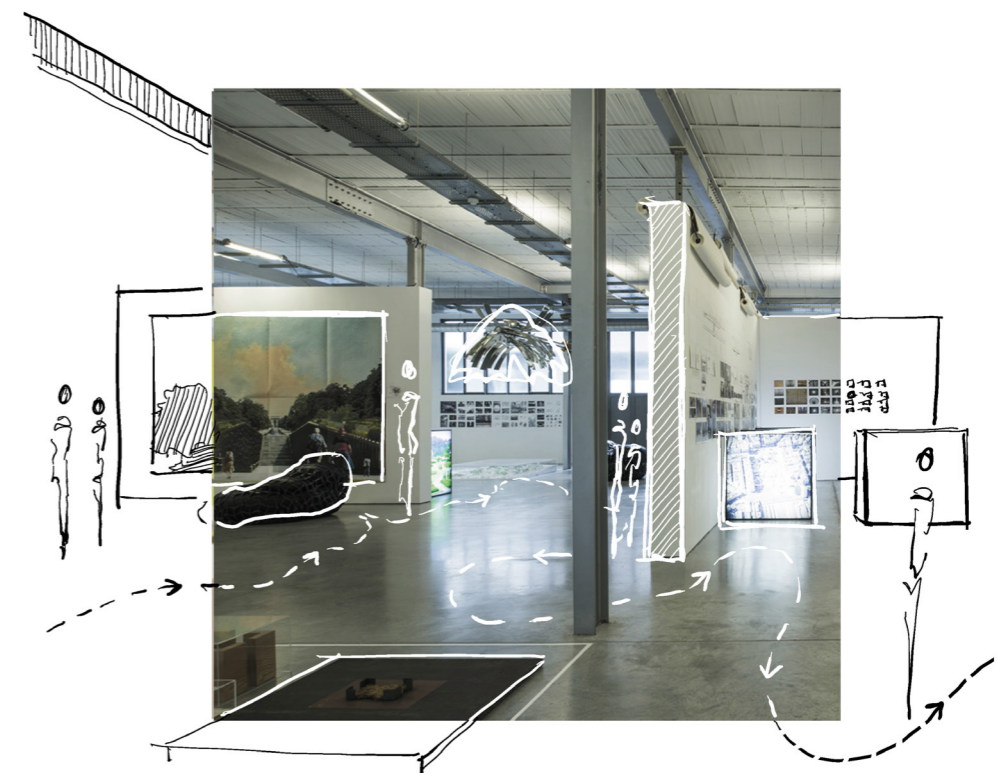
Idealistic

Learning spaces

Absorbing &  
Remembering facts



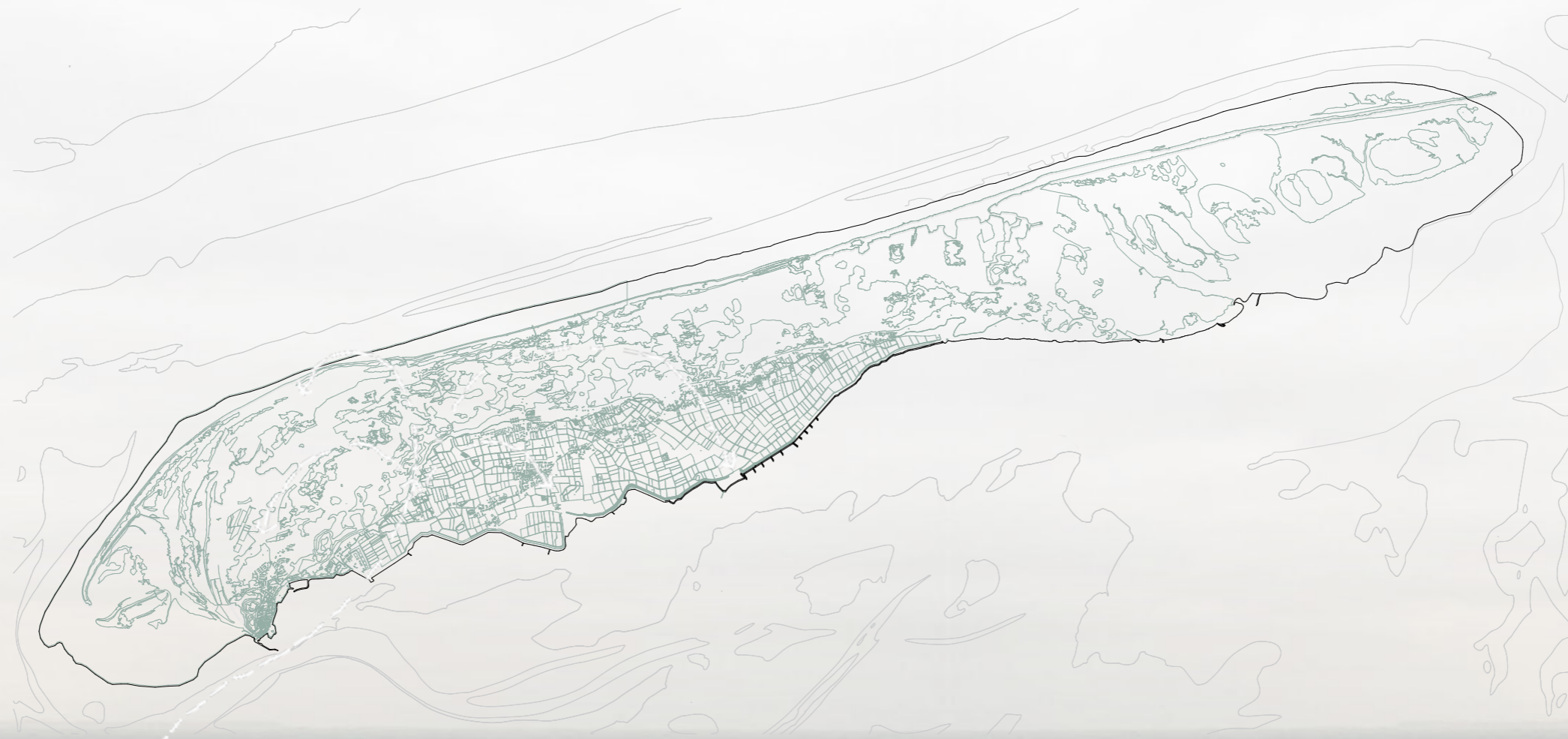
Curiosity based exploration  
Individual constructs



Realistic

Idealistic

Learning spaces

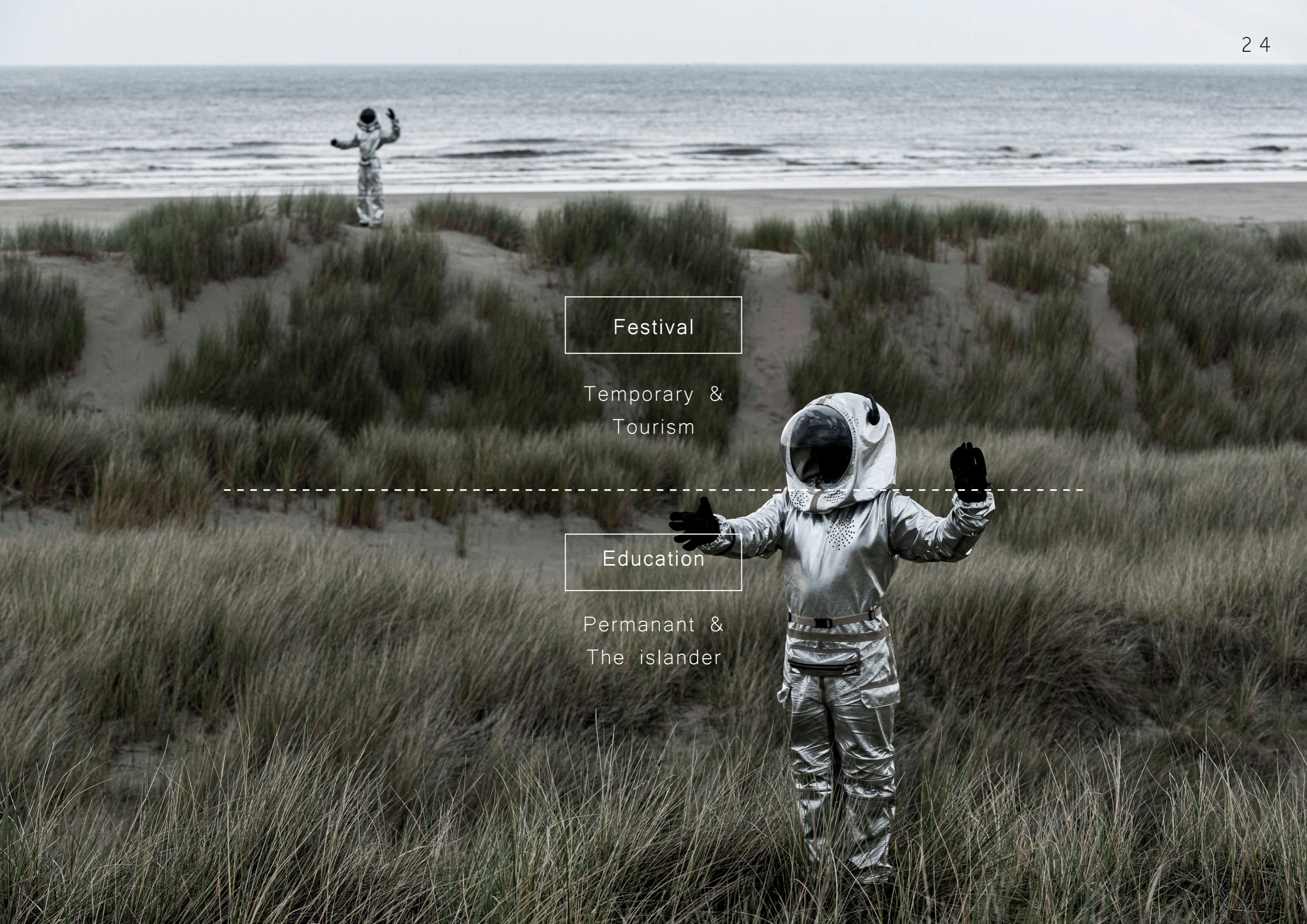


Terschelling





Oerol



Festival

Temporary &  
Tourism

Education

Permanant &  
The islander





My design

Temporary &  
Tourism

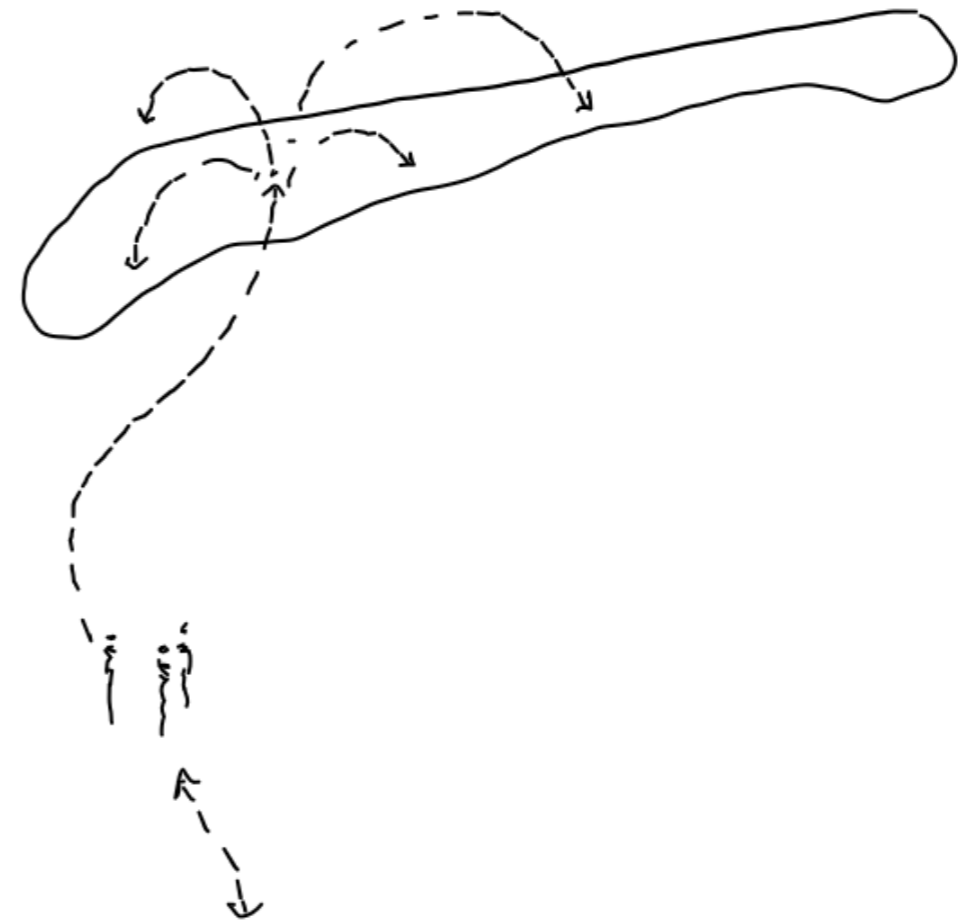
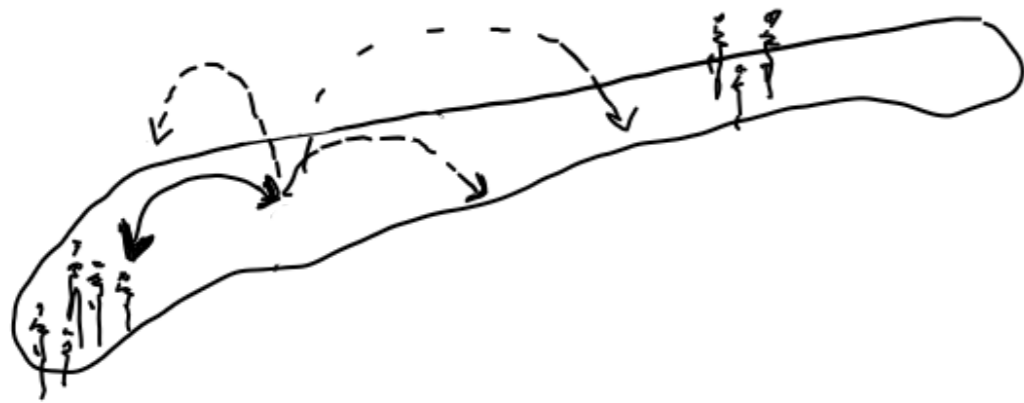
Permanant &  
The islander



Local relevance

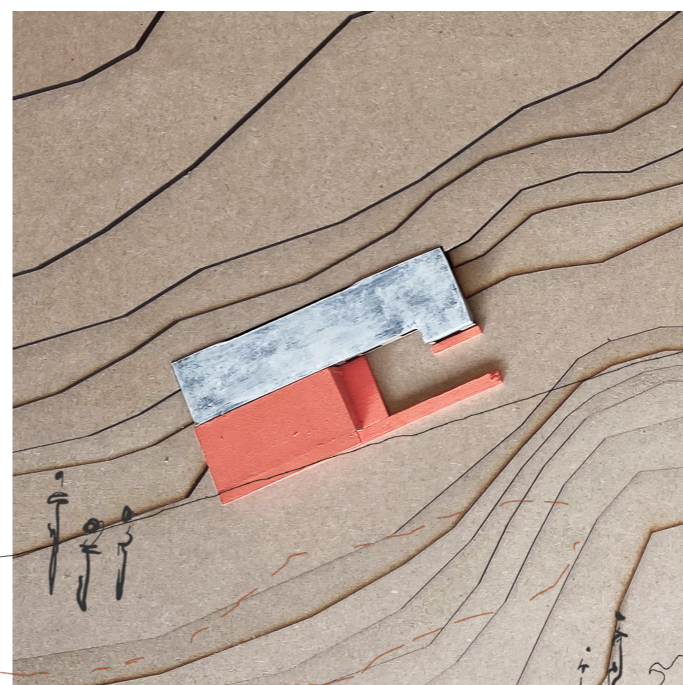
My design

Exchange between external and local

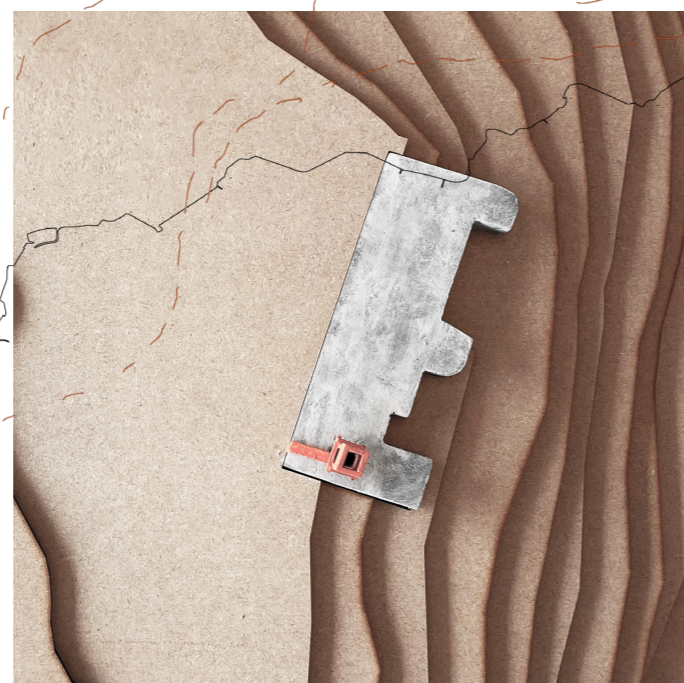




The pavilion



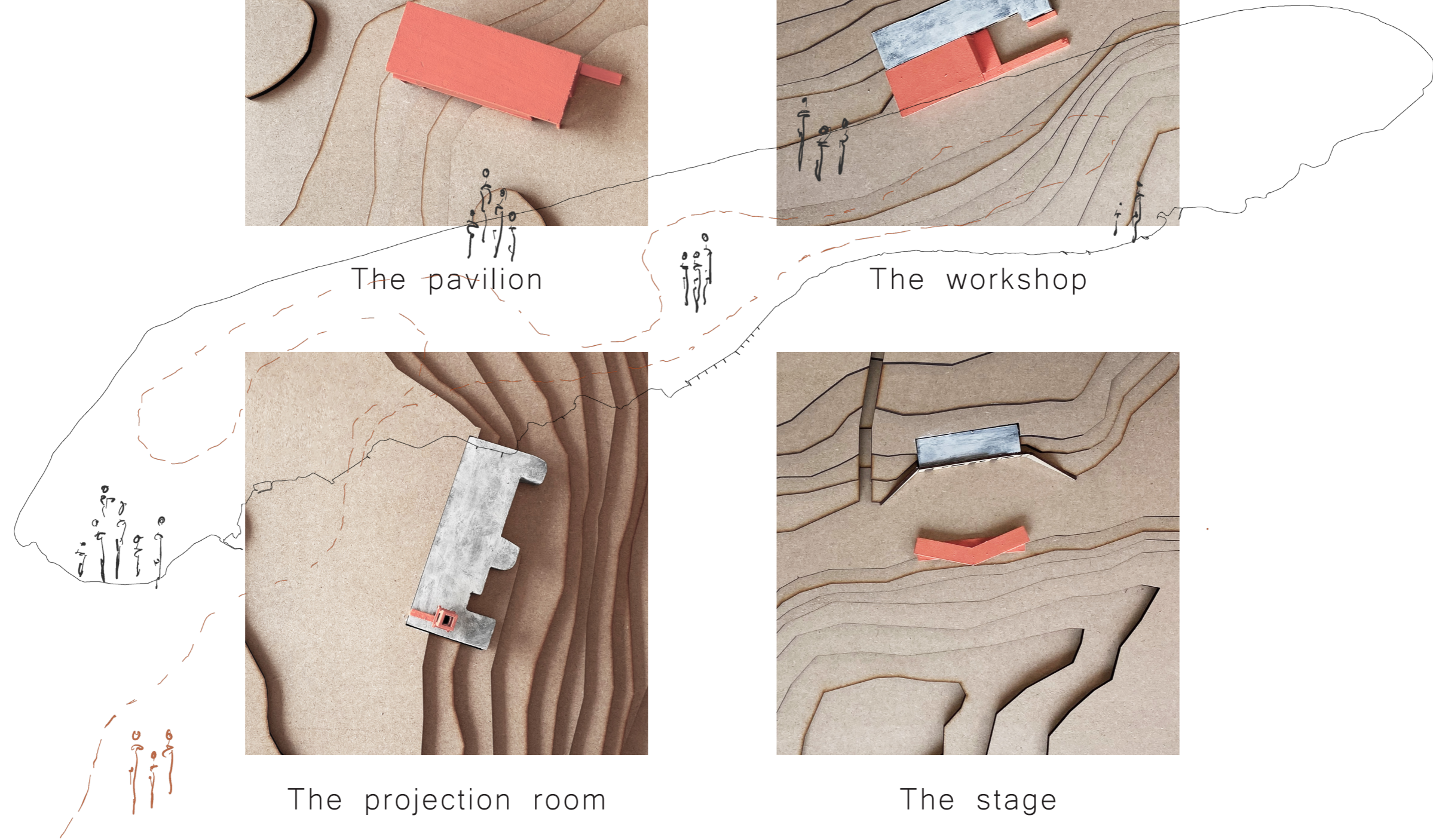
The workshop



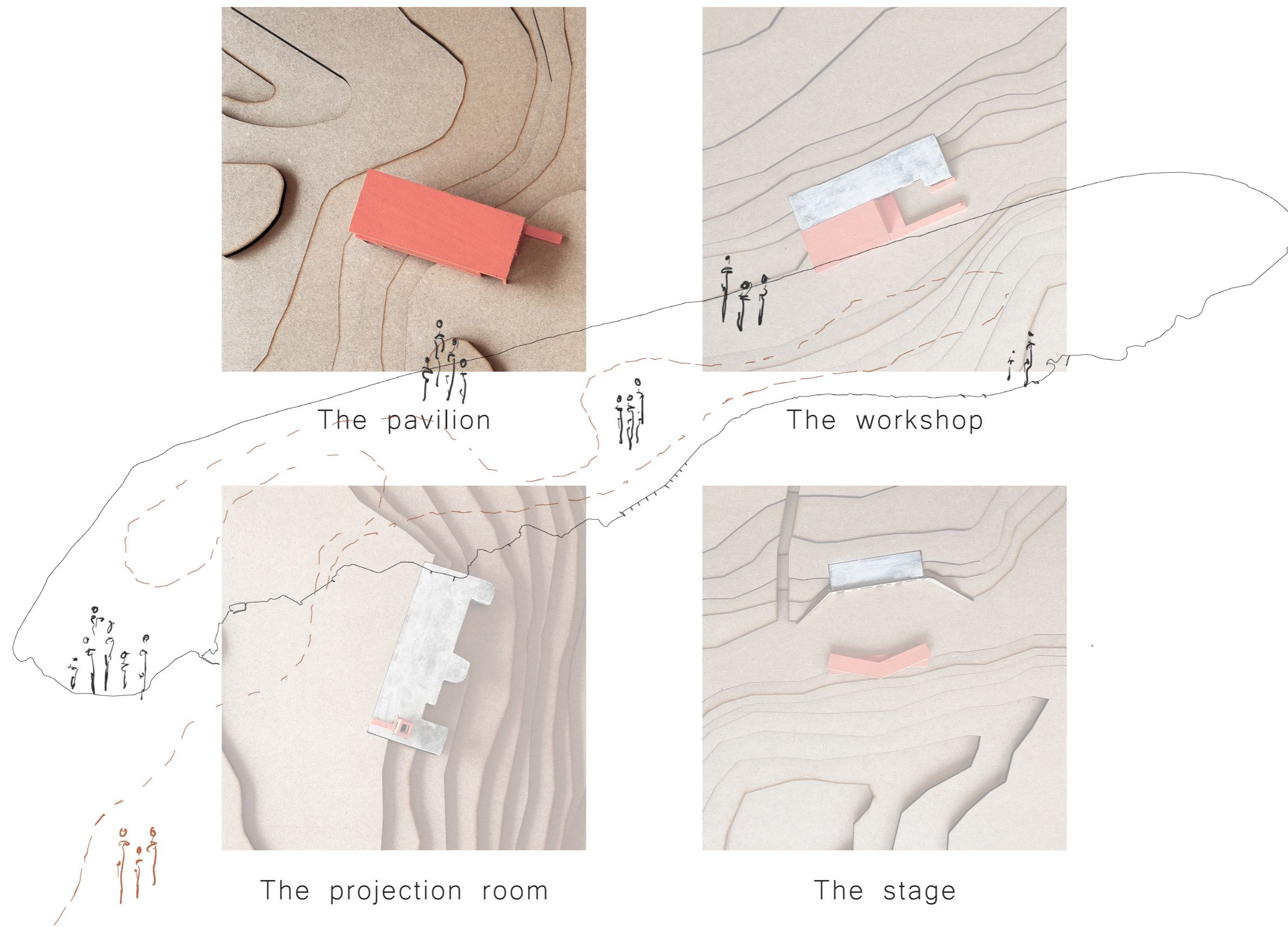
The projection room



The stage



Learning spaces



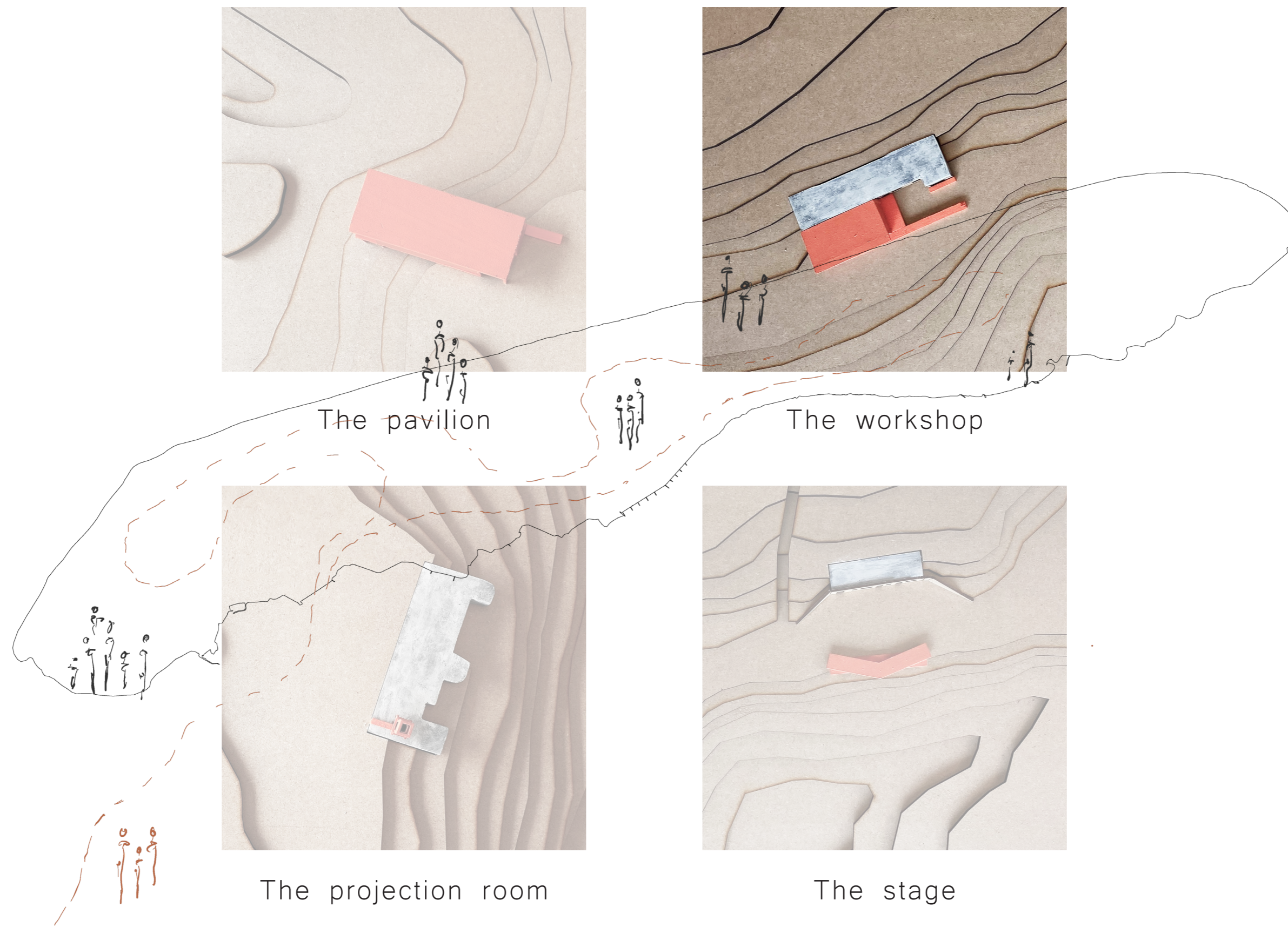
The pavilion

The workshop

The projection room

The stage

Learning spaces



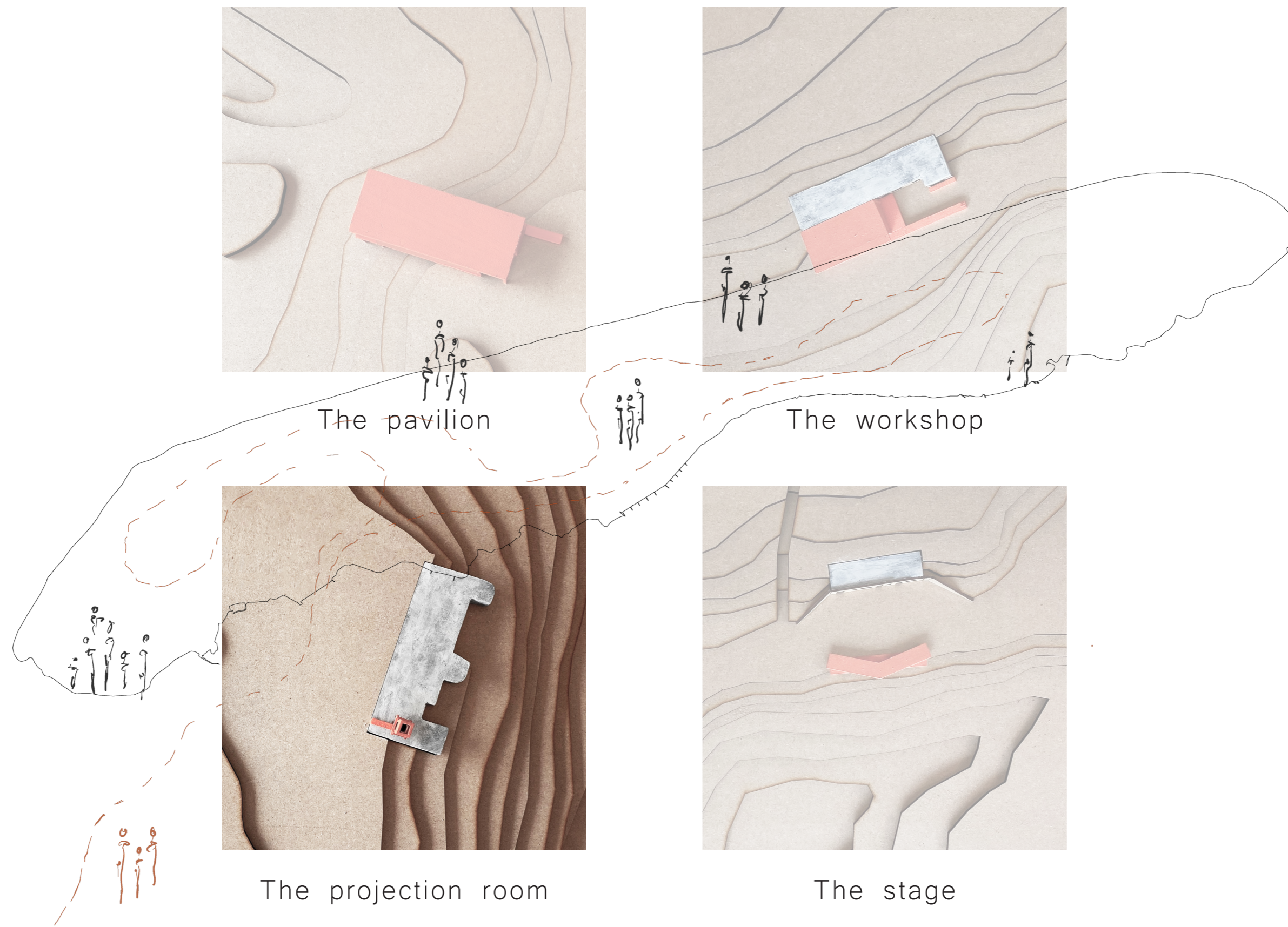
The pavilion

The workshop

The projection room

The stage

Learning spaces



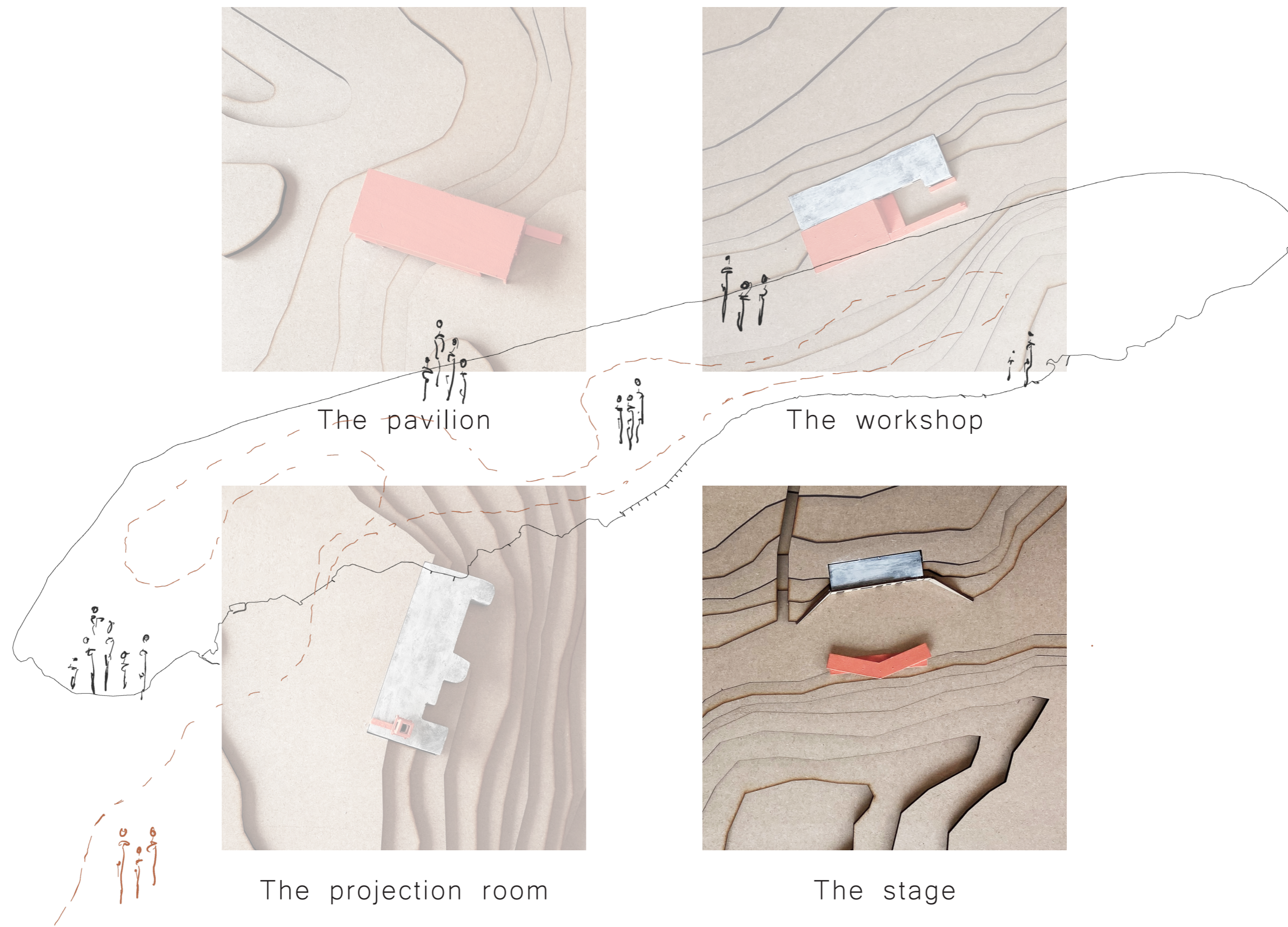
The pavilion

The workshop

The projection room

The stage

Learning spaces



The pavilion

The workshop

The projection room

The stage

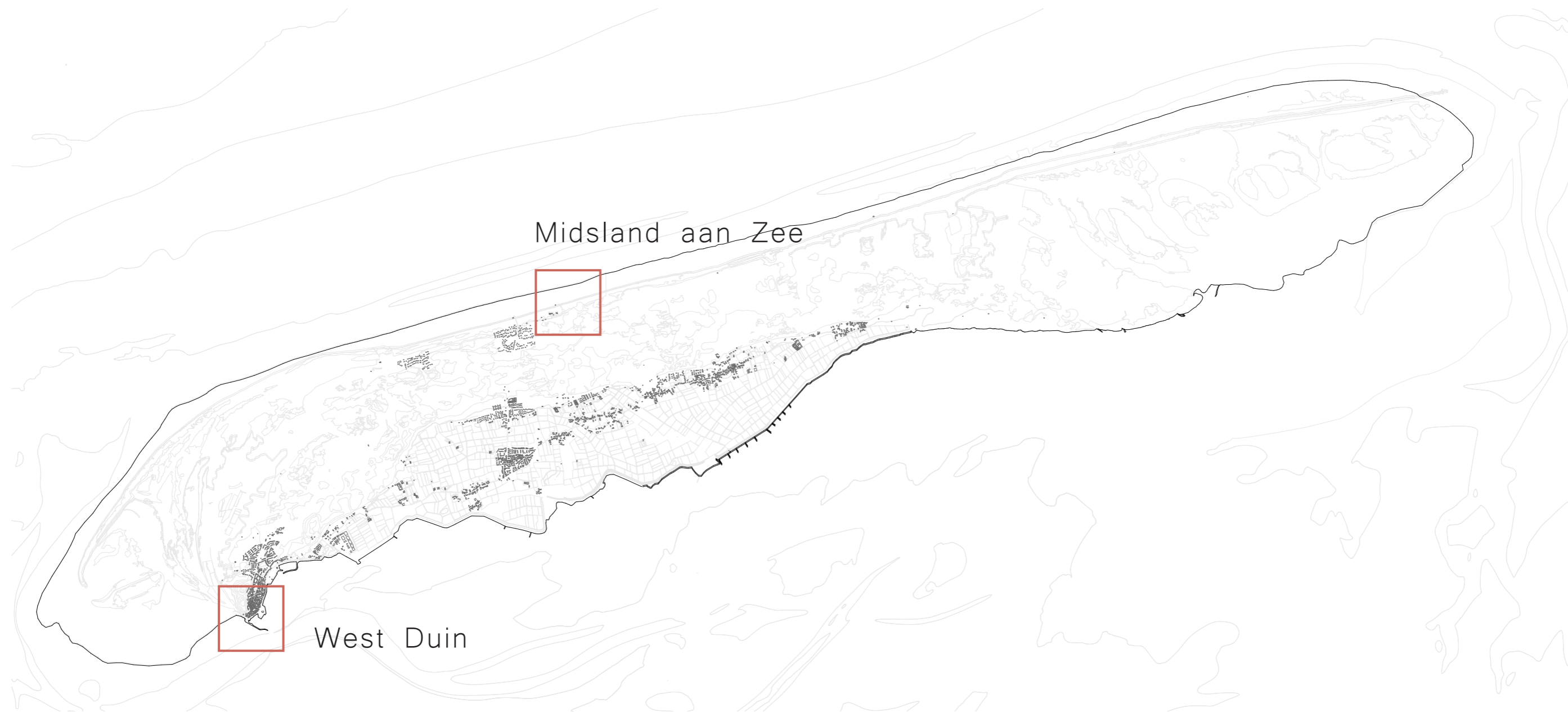
Learning spaces

Nature



Respecting the  
ecological context

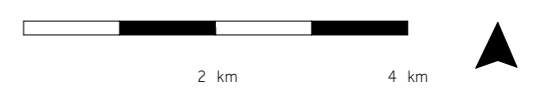




Midsland aan Zee

West Duin

Design locations

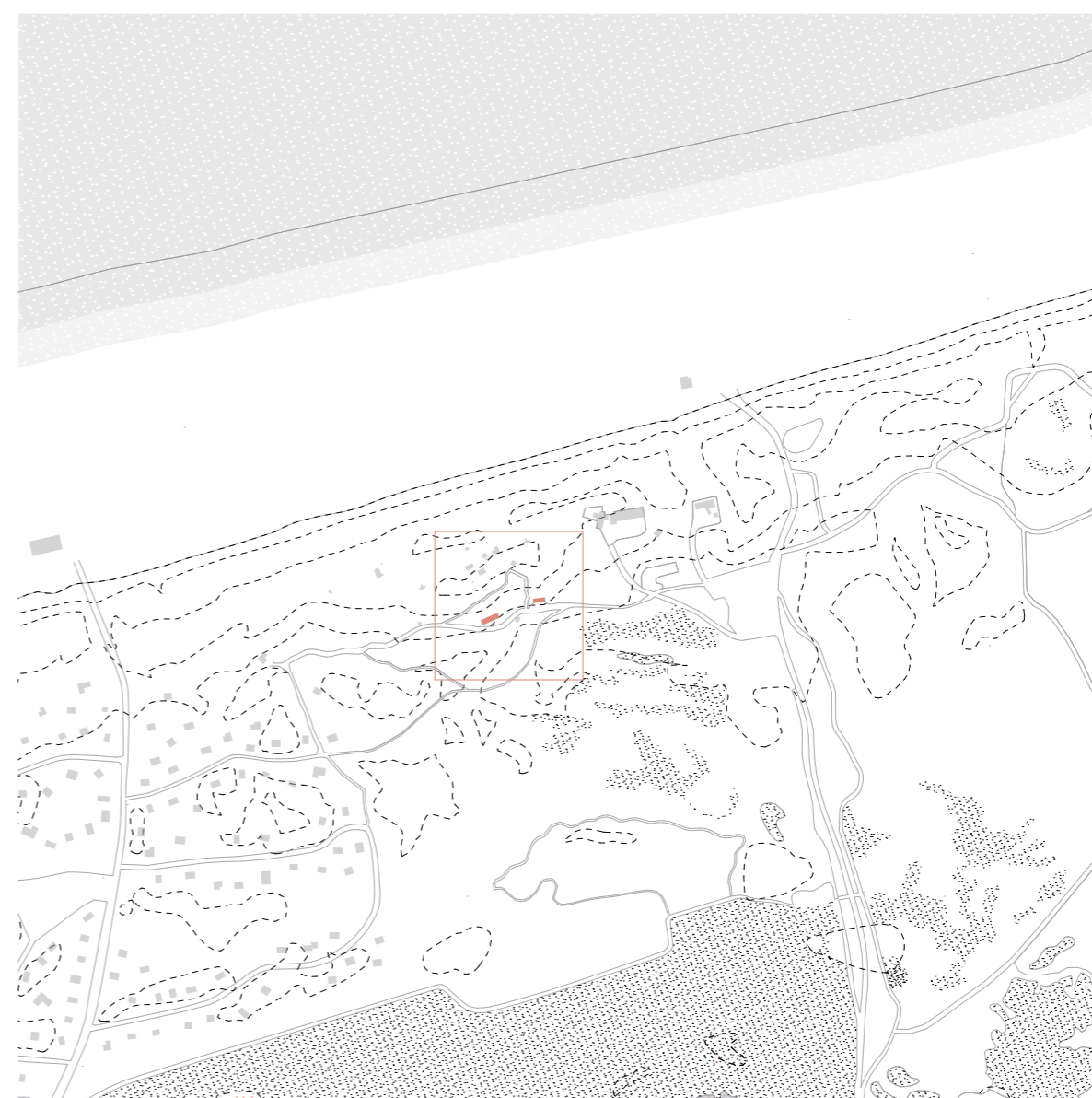


Situations

1:1500



West Terschelling



Midland aan Zee





West Duin  
Potential of the existing



West Duin  
Viewpoint



West Duin  
Old radar bunker



West Duin

The pavilion & The projection room



Midsland aan Zee  
Potential of the existing



Midsland aan Zee  
Army quarters

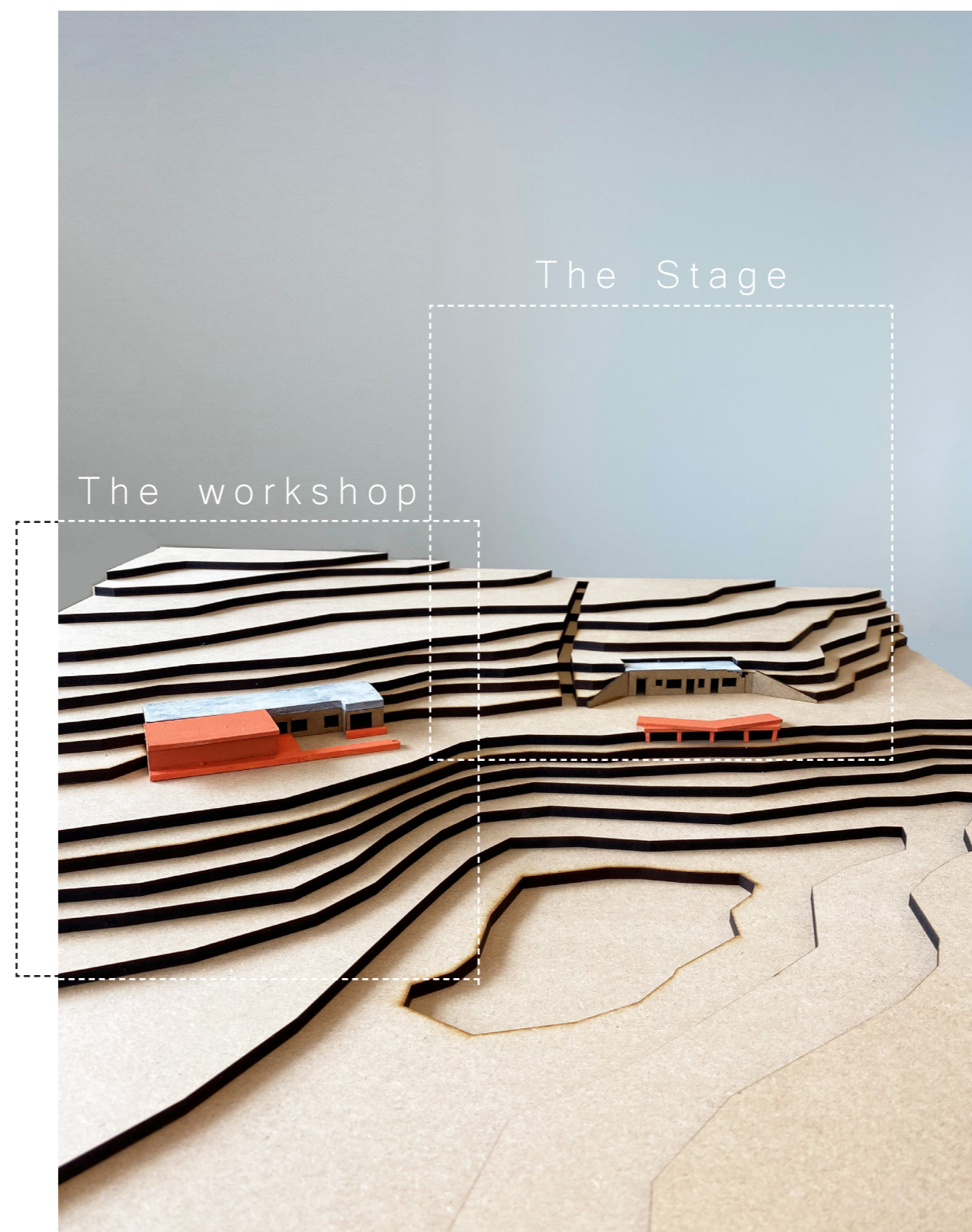




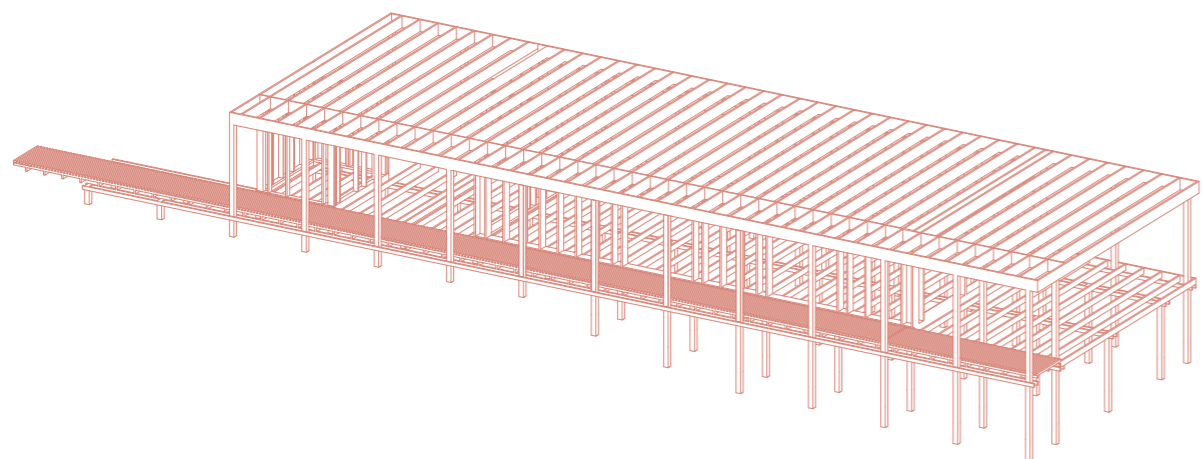
Midsland aan Zee  
Army quarters



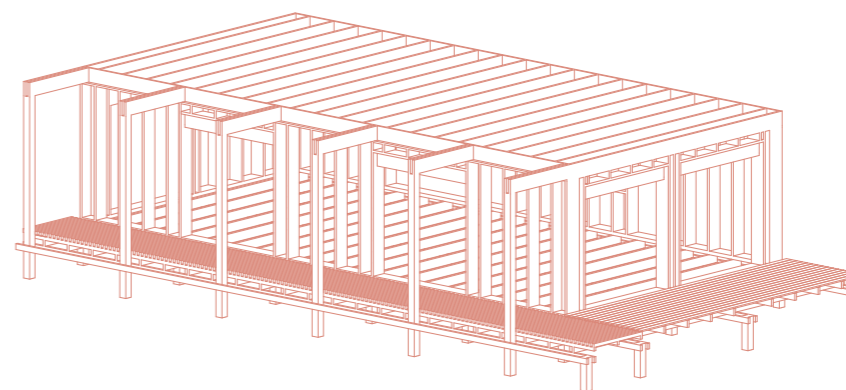
Midsland aan Zee  
Army quarters



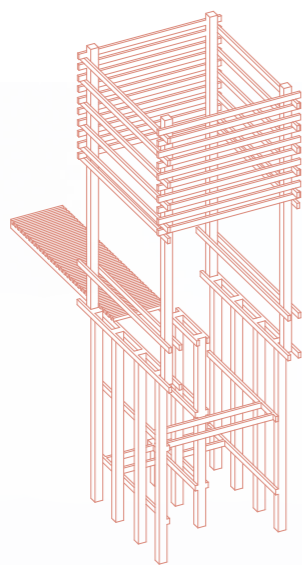
Midsland aan Zee  
The Workshop & The stage



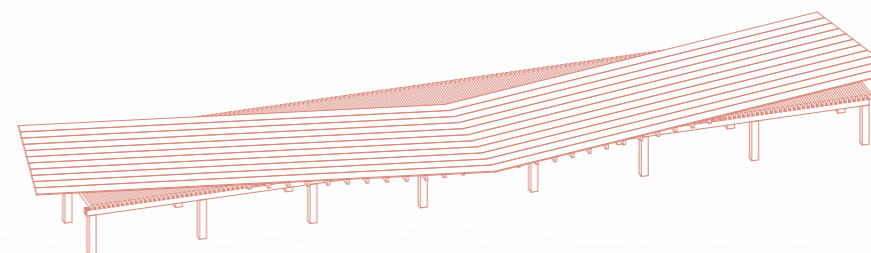
The pavilion



The workshop



The stairs



The stage

Wood structures

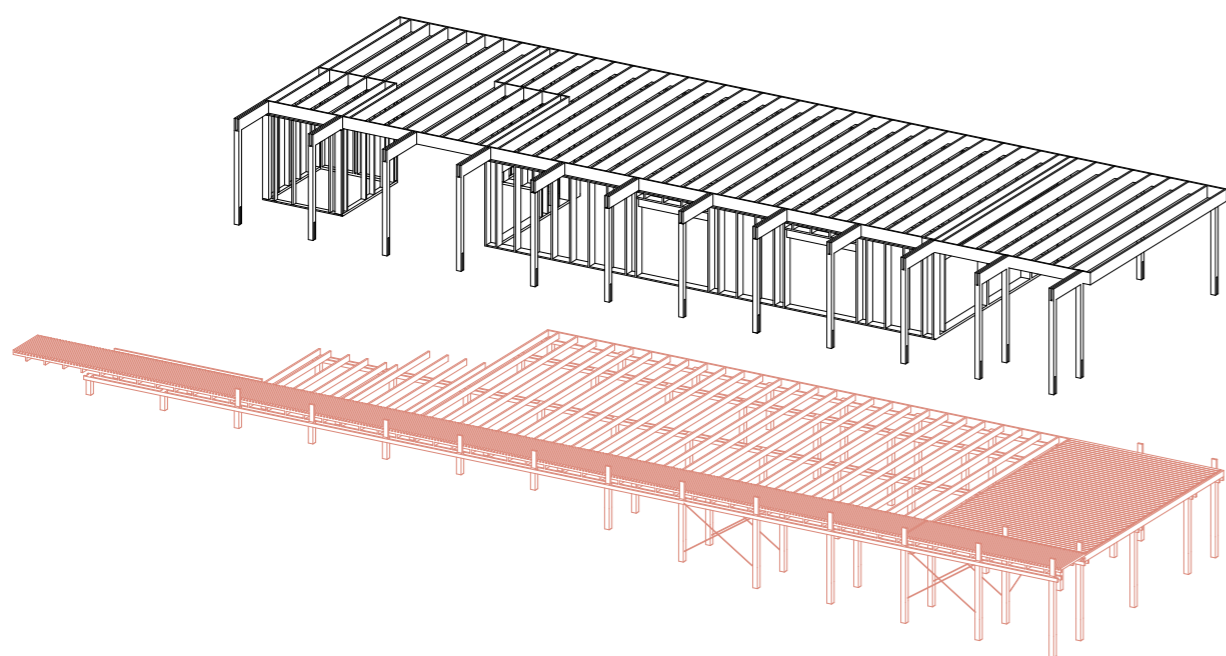




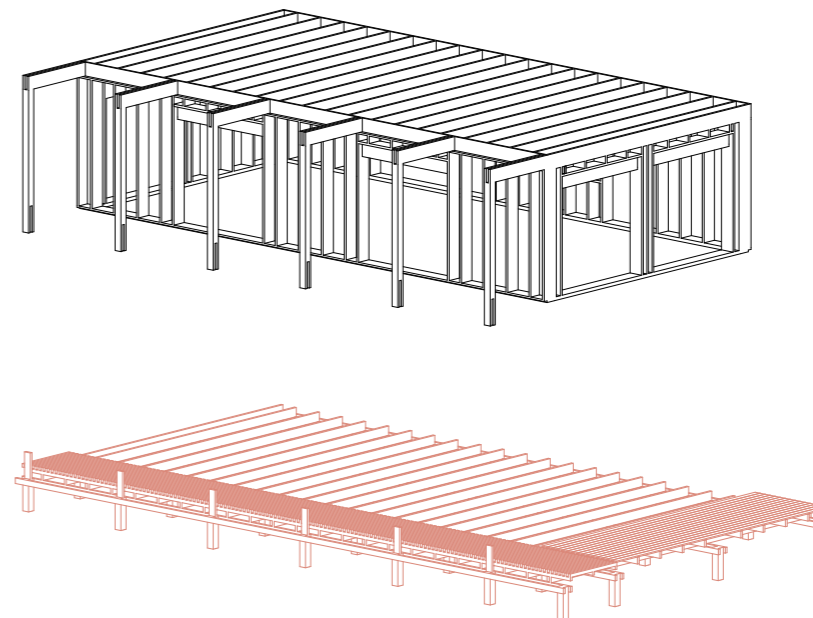
Wood structures



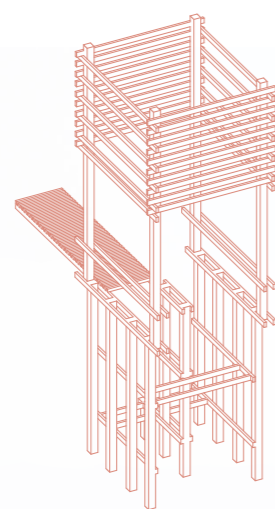
Local and sustainable materials



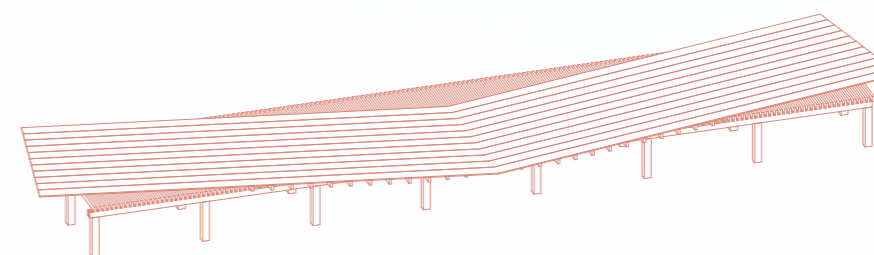
The pavilion



The workshop

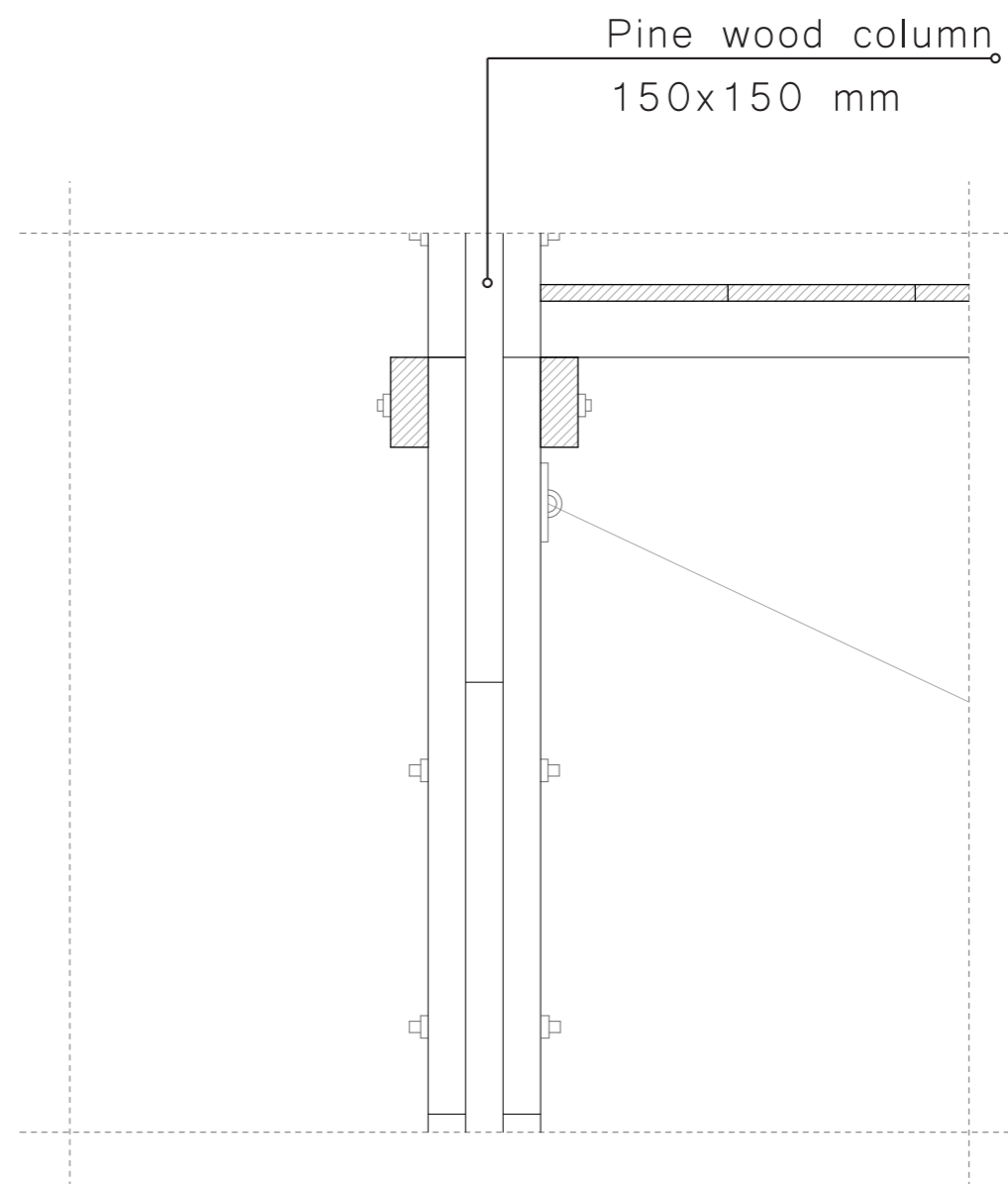
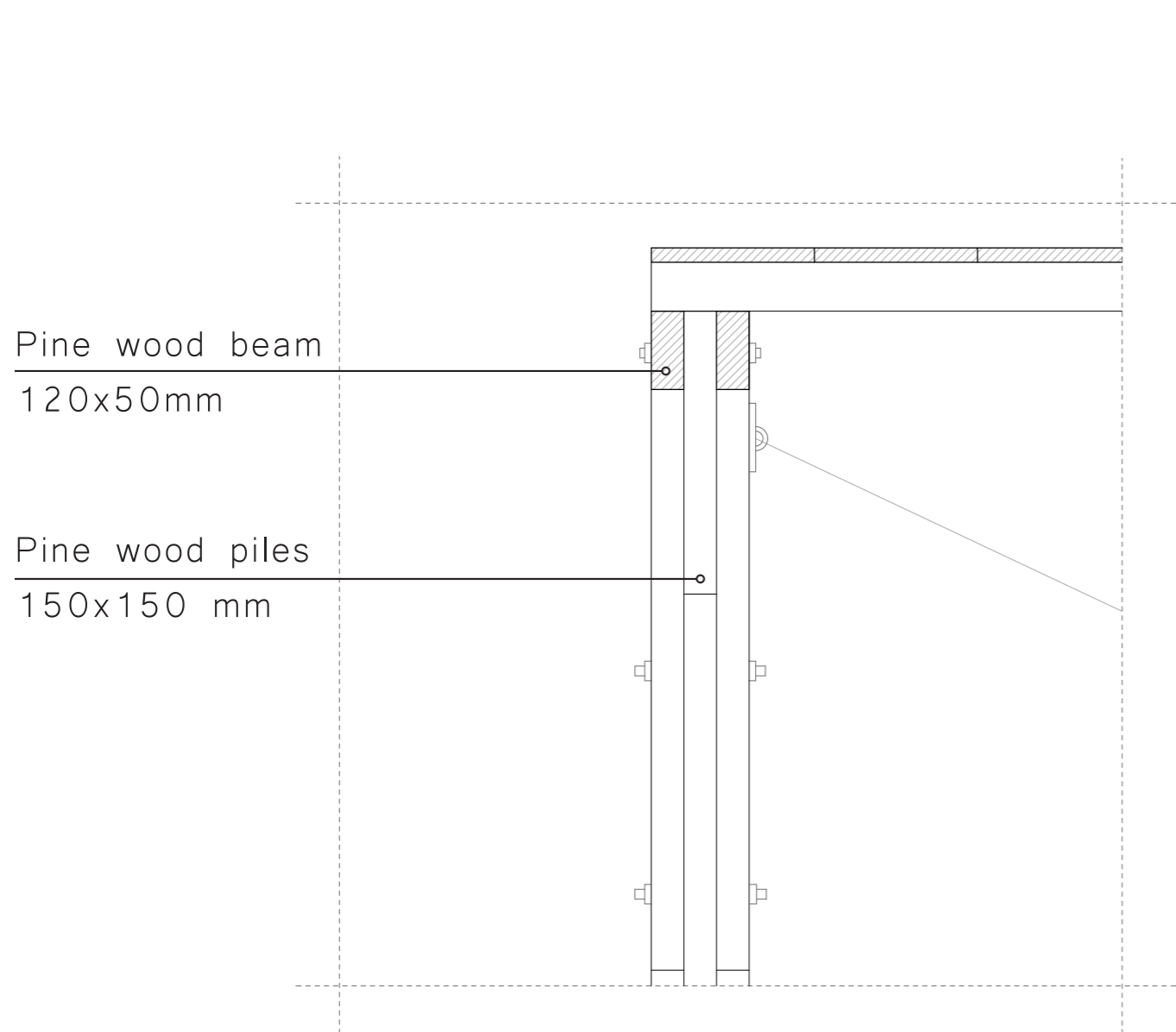


The stairs



The stage

Wood structures

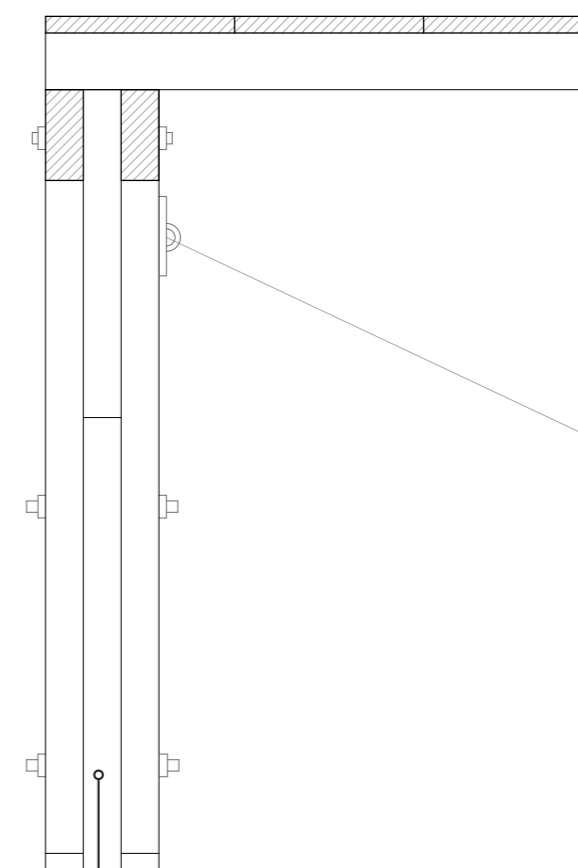


Wood structures



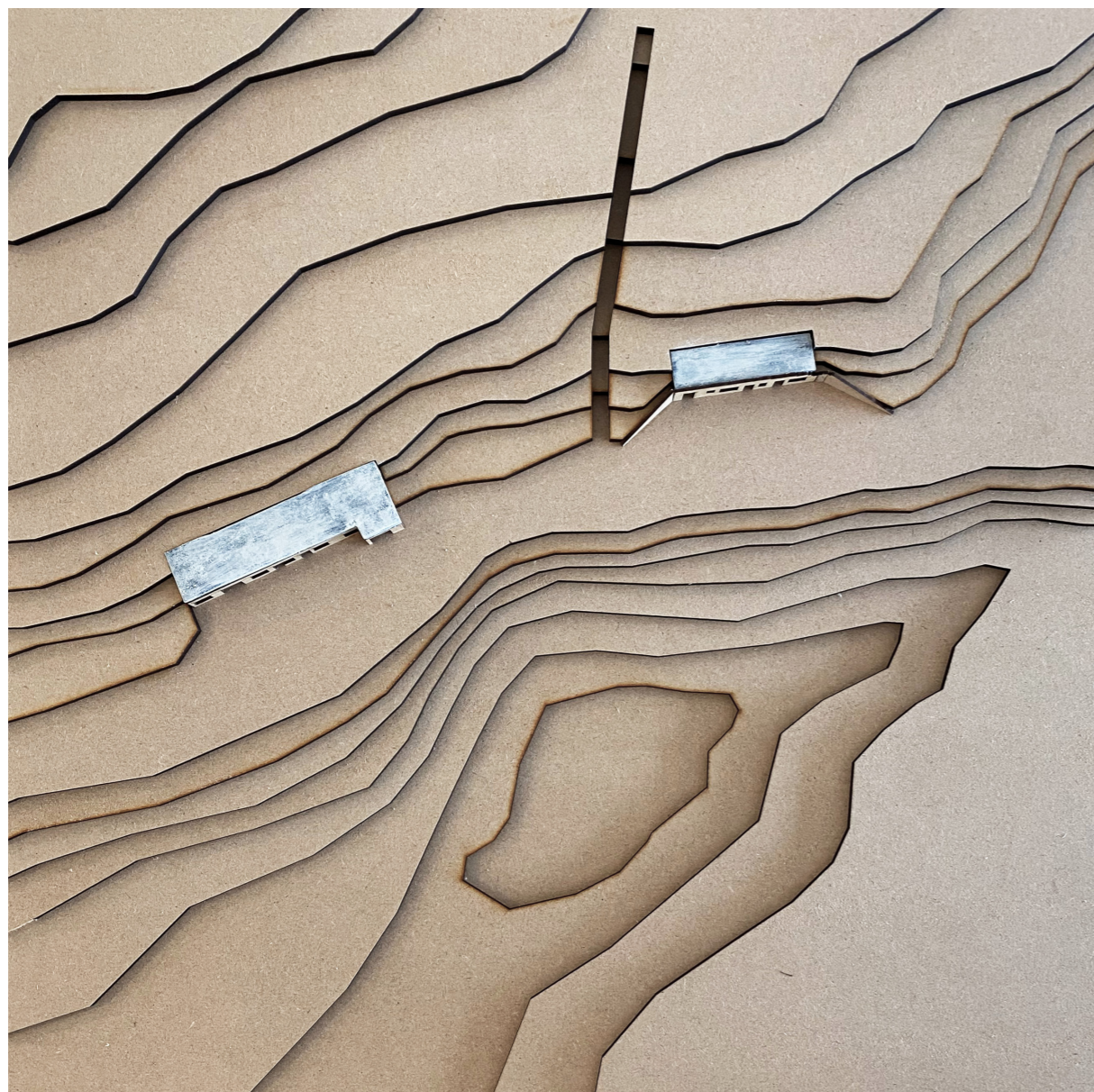


Wood structures

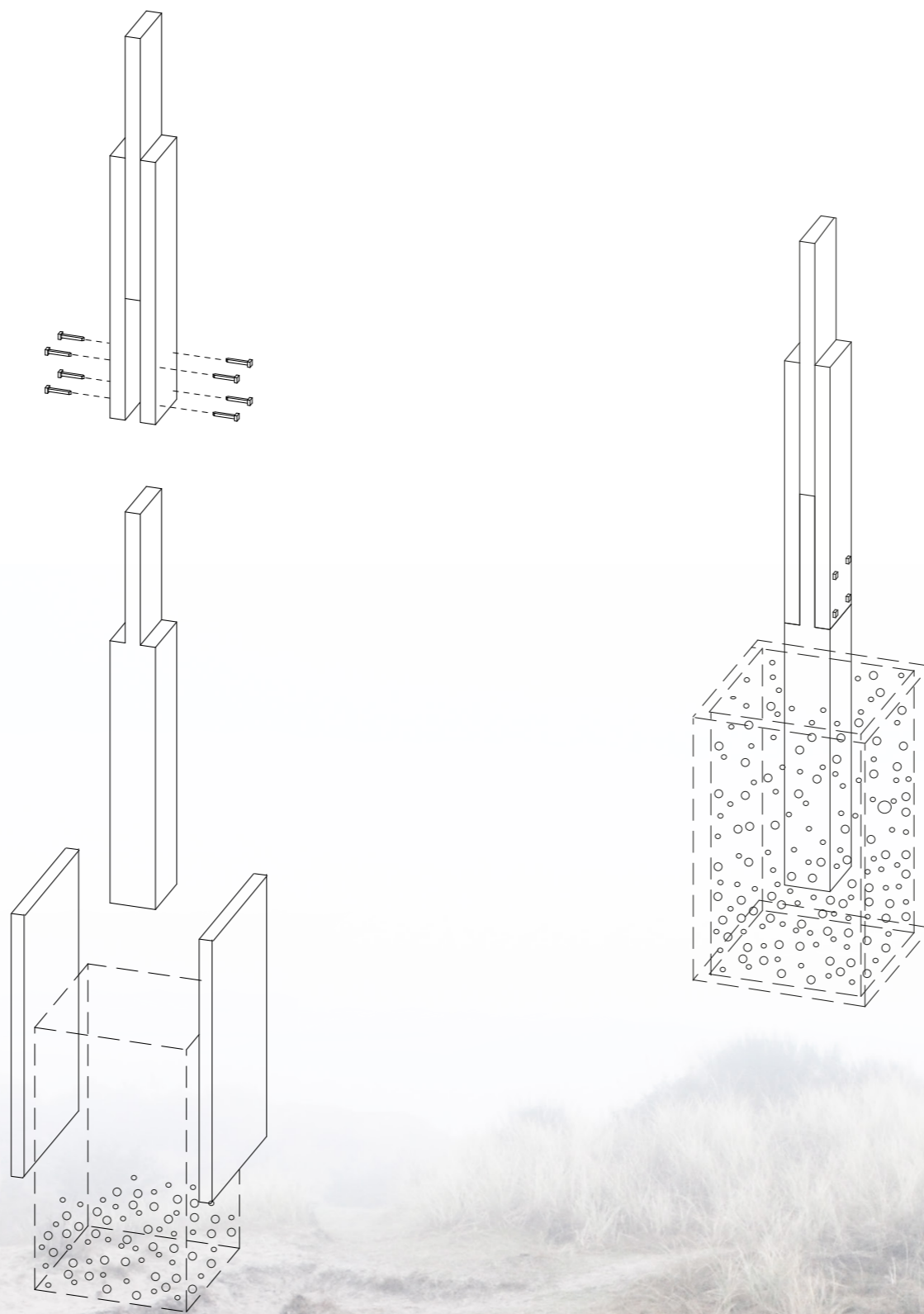


Thermally modified pine wood  
foundation element, 150x150 mm:  
Water and fungus resistant

Wood foundation



Concrete remains



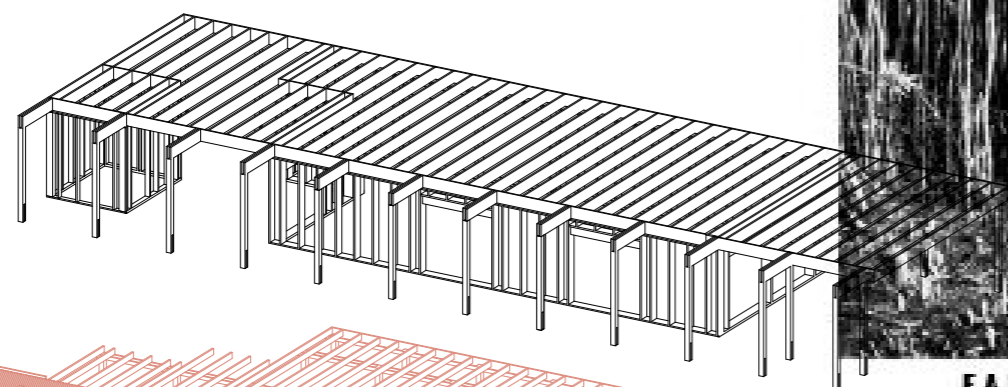
Wood foundation



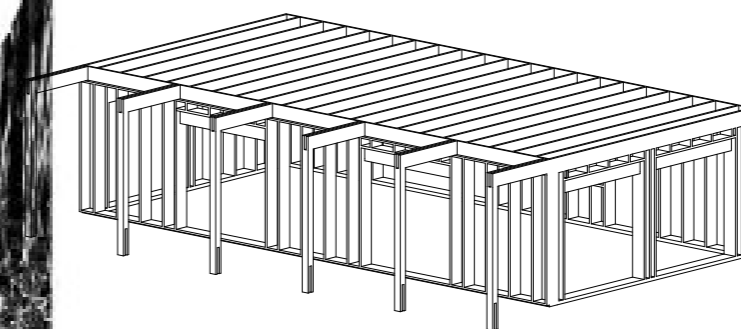
Wood foundation



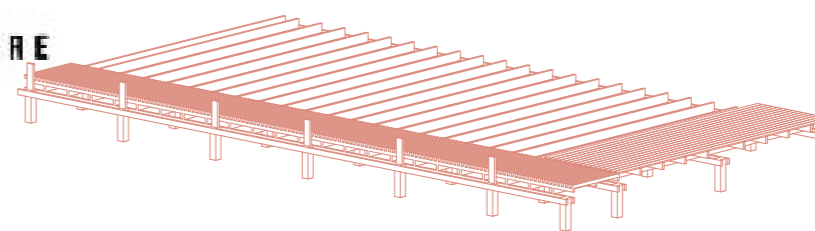
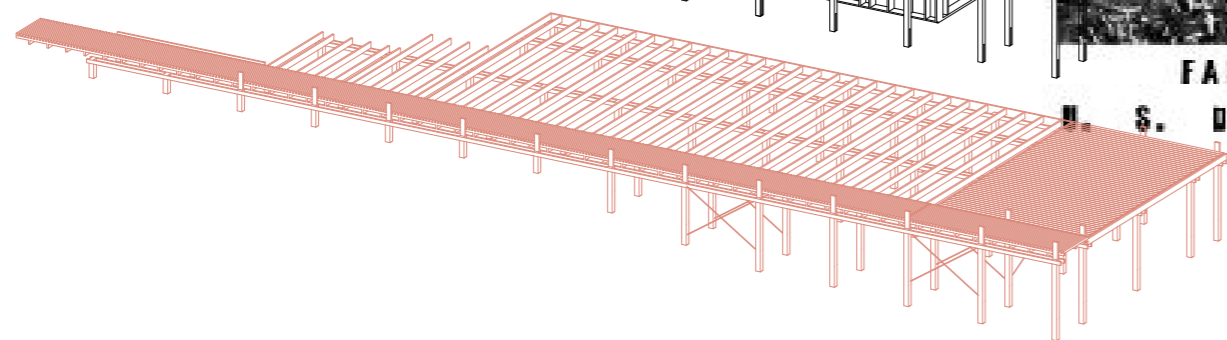
FARMERS' BULLETIN No. 1935  
U. S. DEPARTMENT OF AGRICULTURE



The pavilion



The workshop



Wood structures



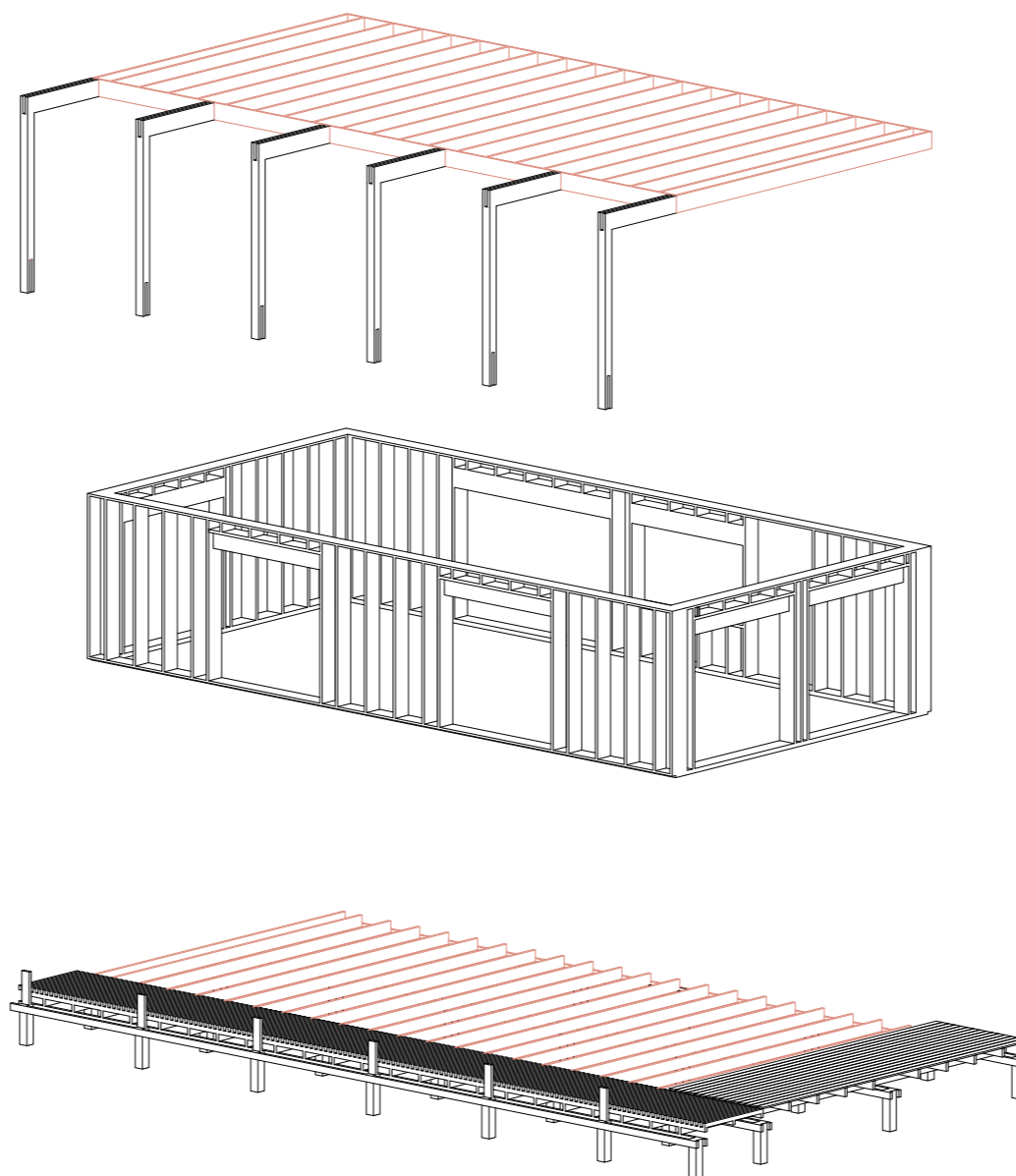
Wood structure  
+ Hempcrete



FARMERS' BULLETIN No. 1935  
U. S. DEPARTMENT OF AGRICULTURE

Hemp as building material

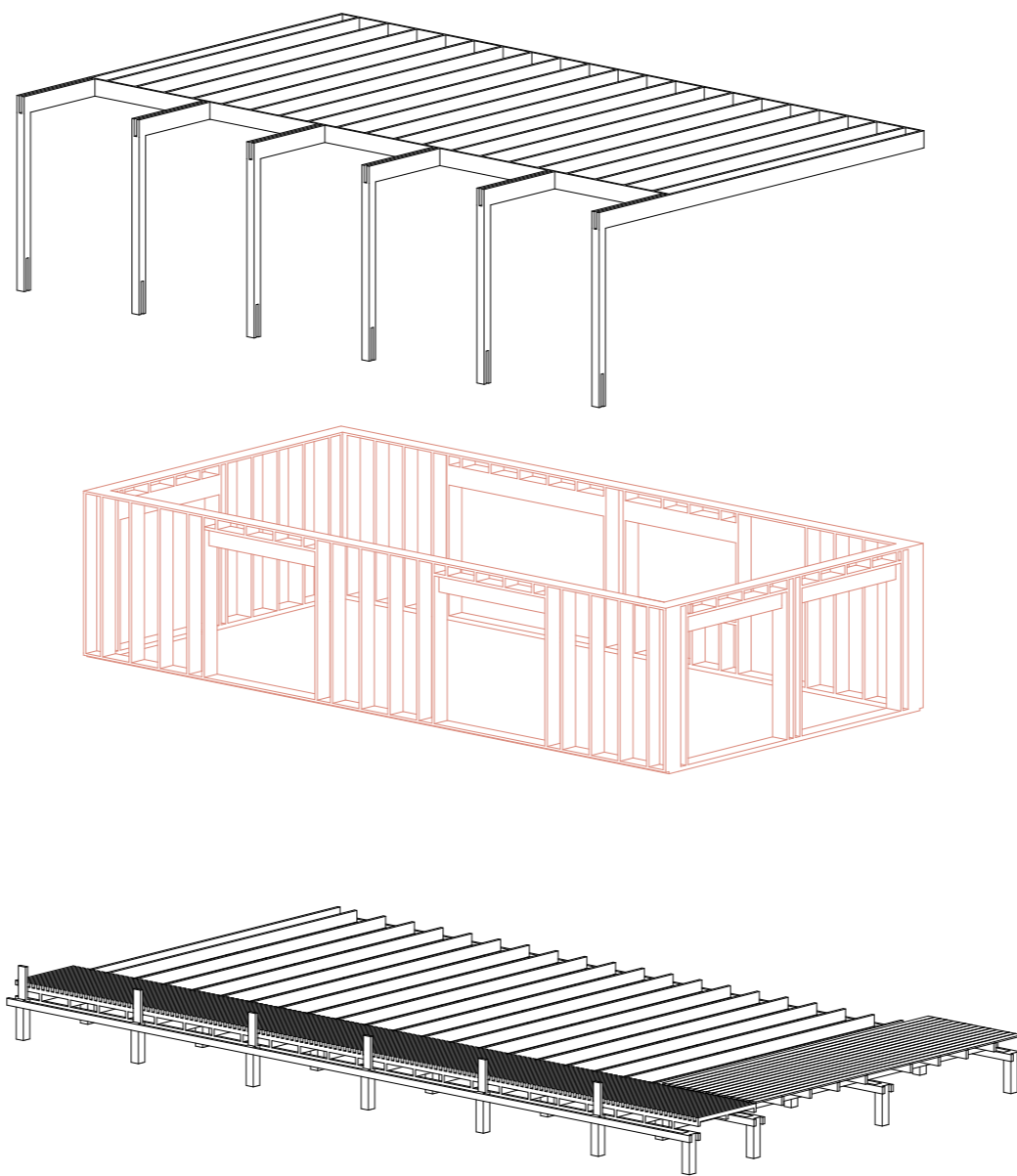




Hemp  
Floors cast in situ



Hemp-lime mixture  
poured on site



Hemp  
Facade panels



Hemp  
Combined with wood skeleton



Exterior



Interior

Hemp visible



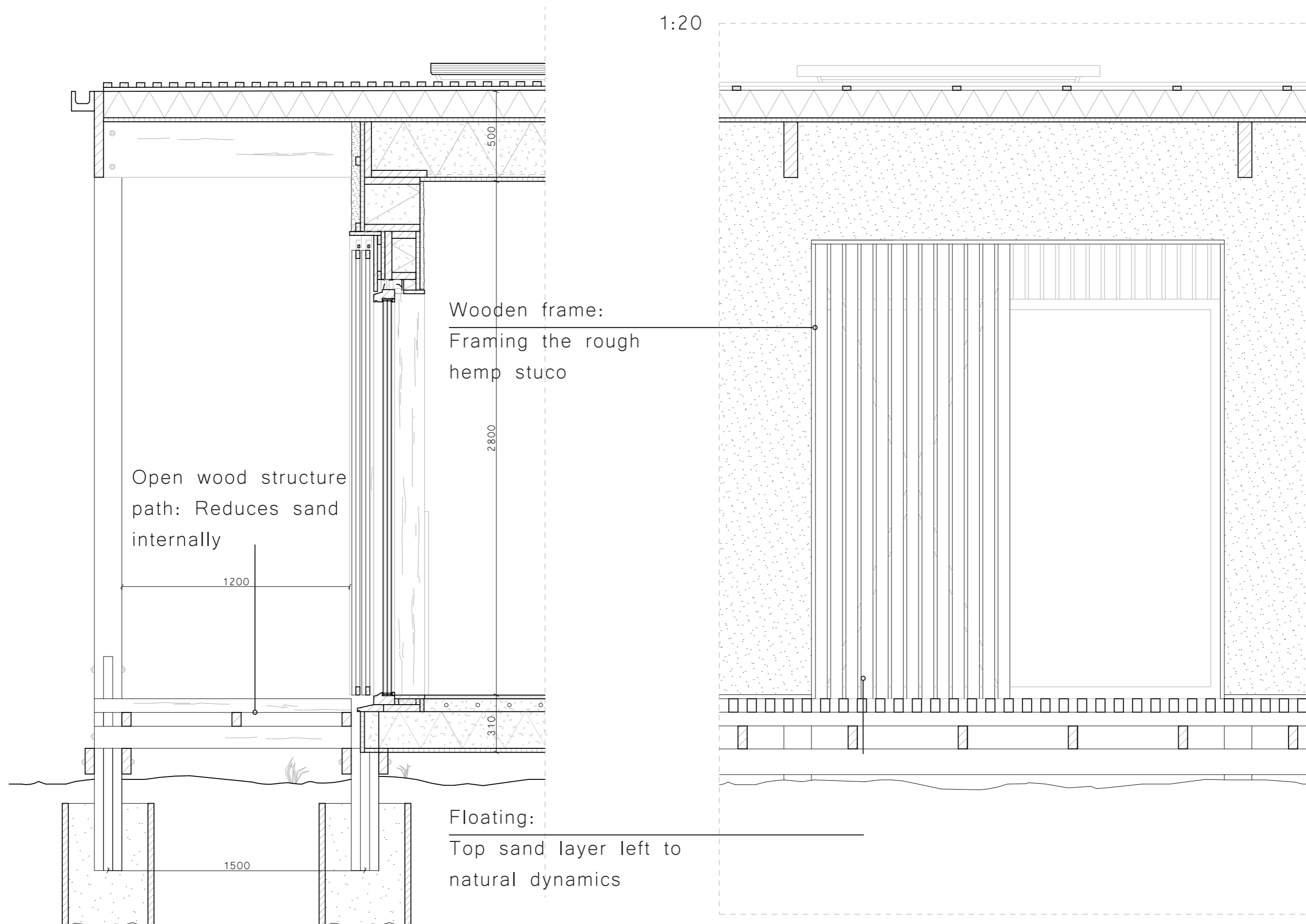
Hemp & wood:  
Rhythm & frames



Hemp & wood:  
Rhythm & frames

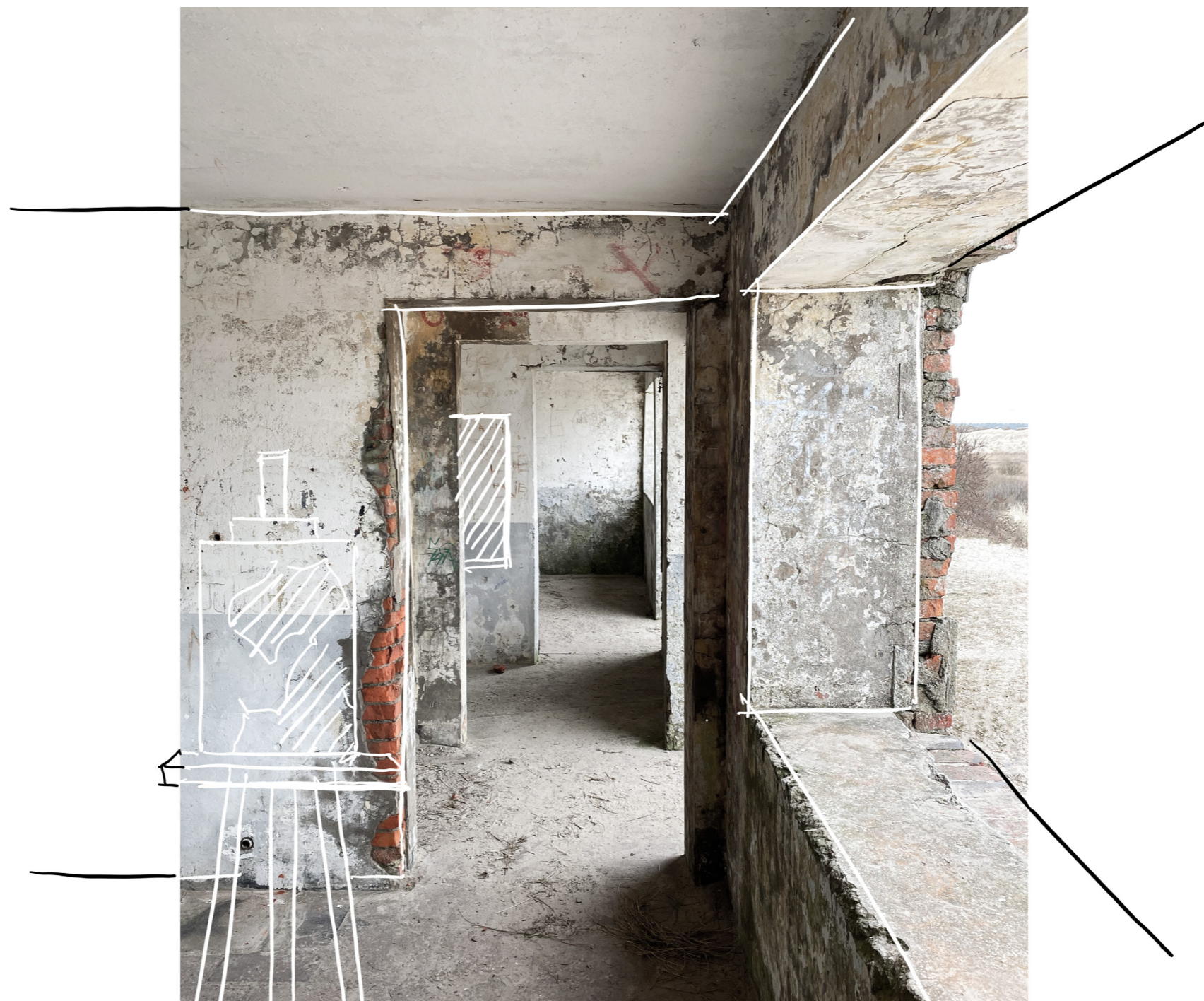
# Facade fragment

1:20





Art & Science



Program & innovation

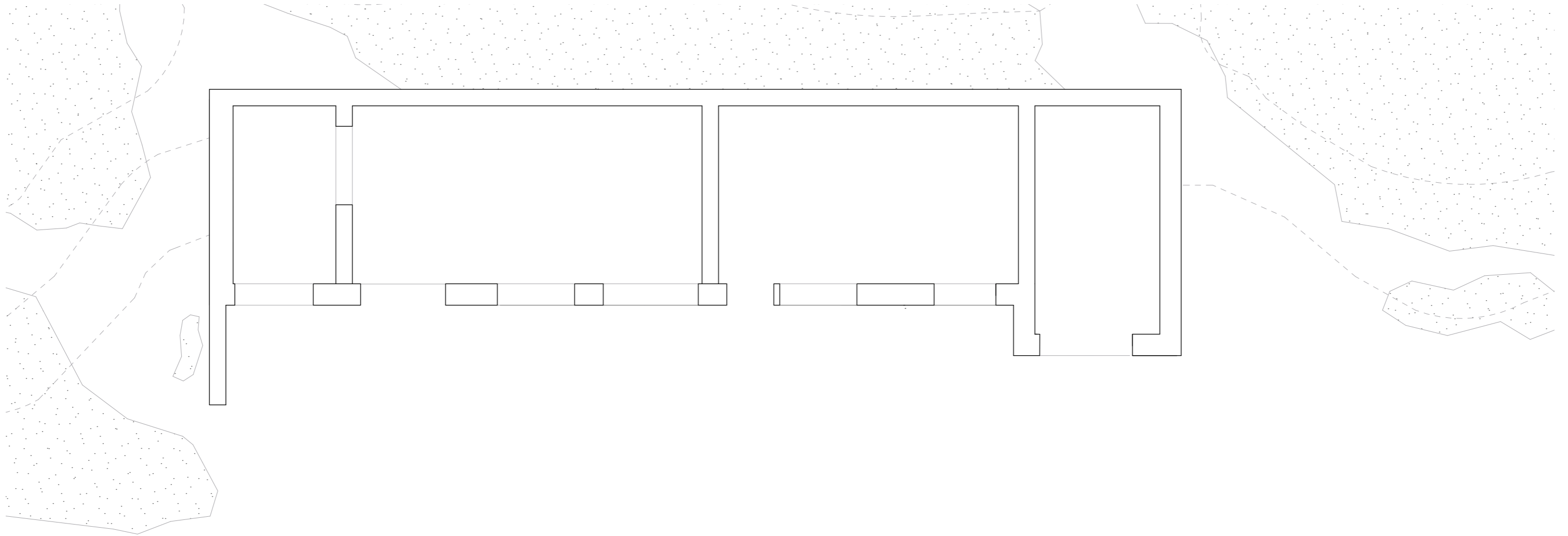


Midsland aan Zee  
The workshop & The stage

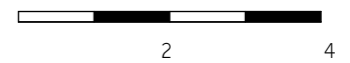


Midsland aan Zee  
The workshop

Floorplan  
1:100

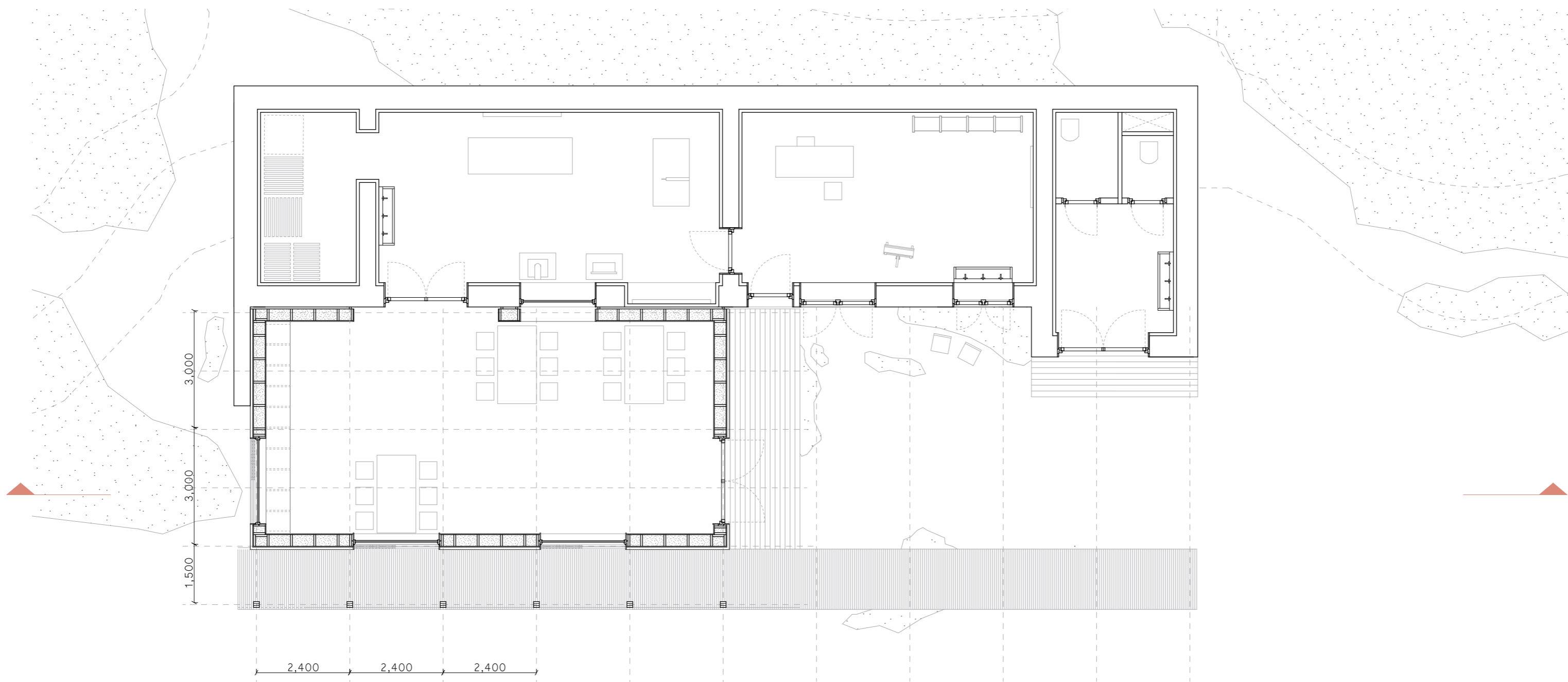


Existing



# Floorplan

1:100

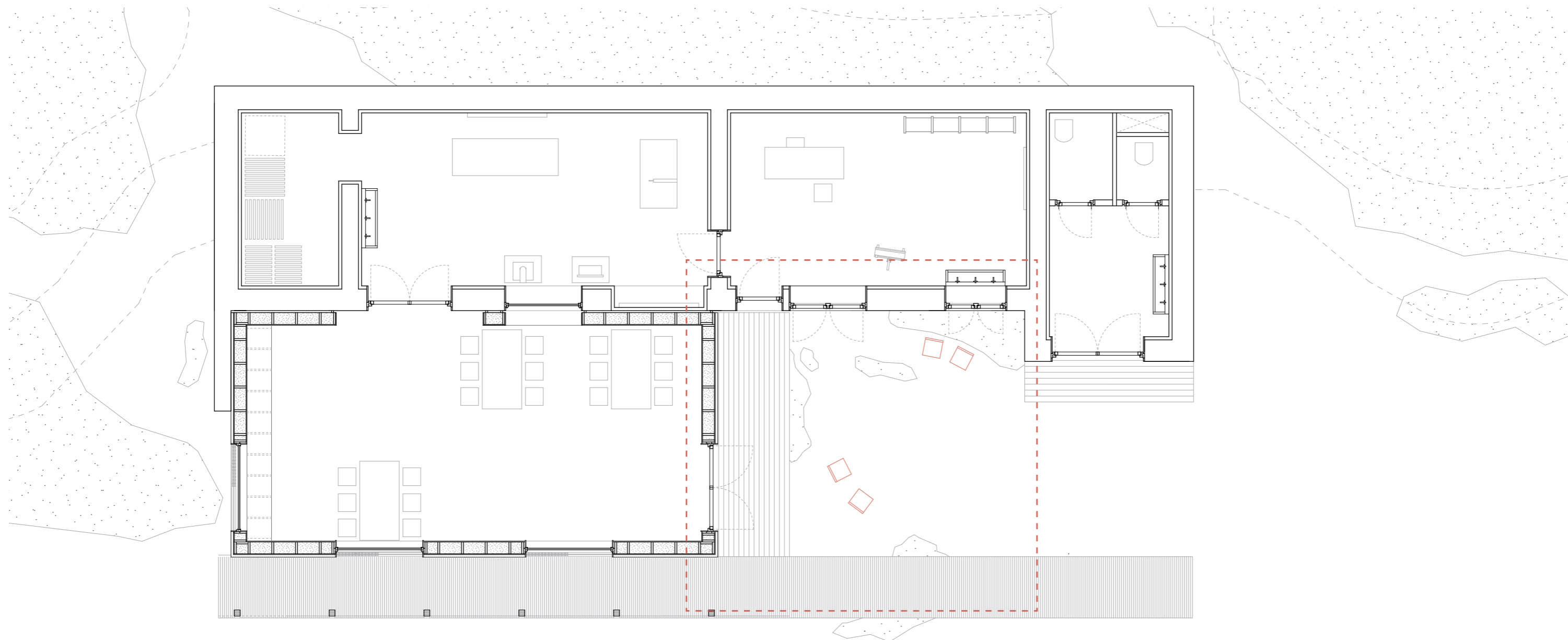


The workshop



# Floorplan

1:100



The workshop

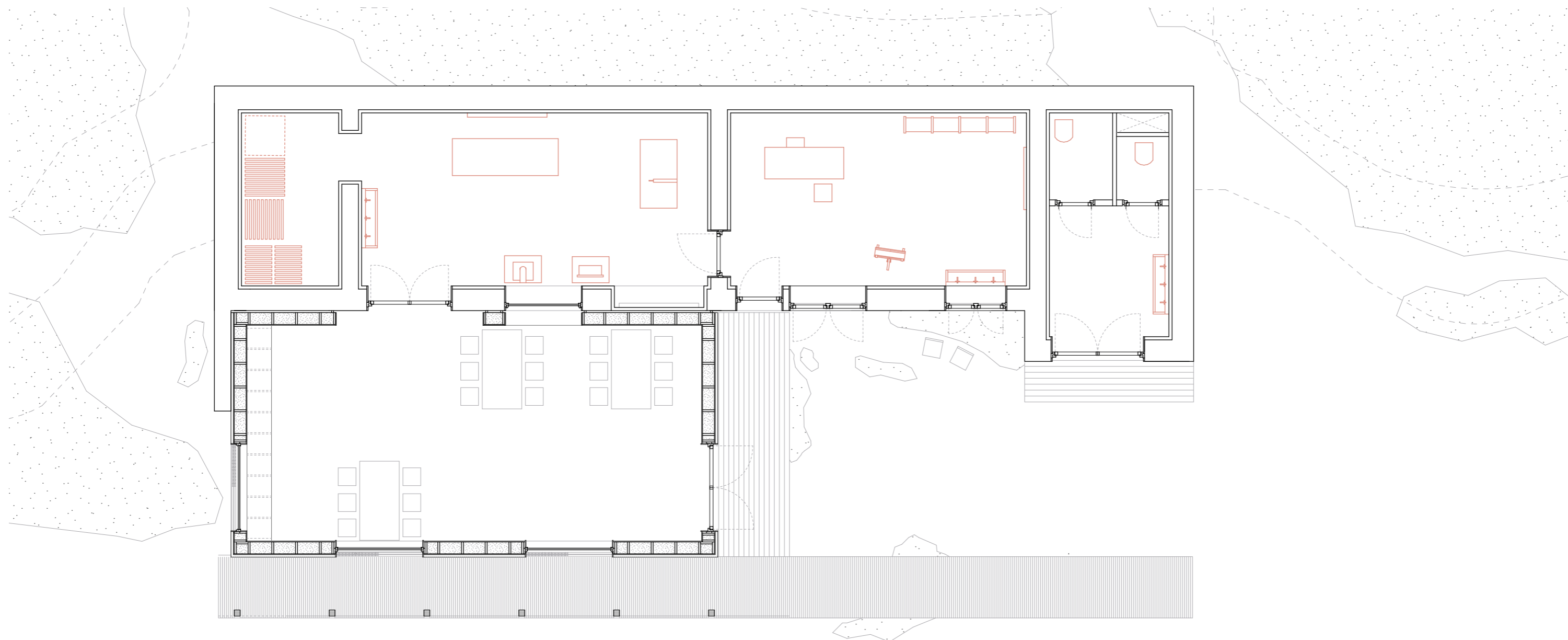




Patio  
The workshop

# Floorplan

1:100



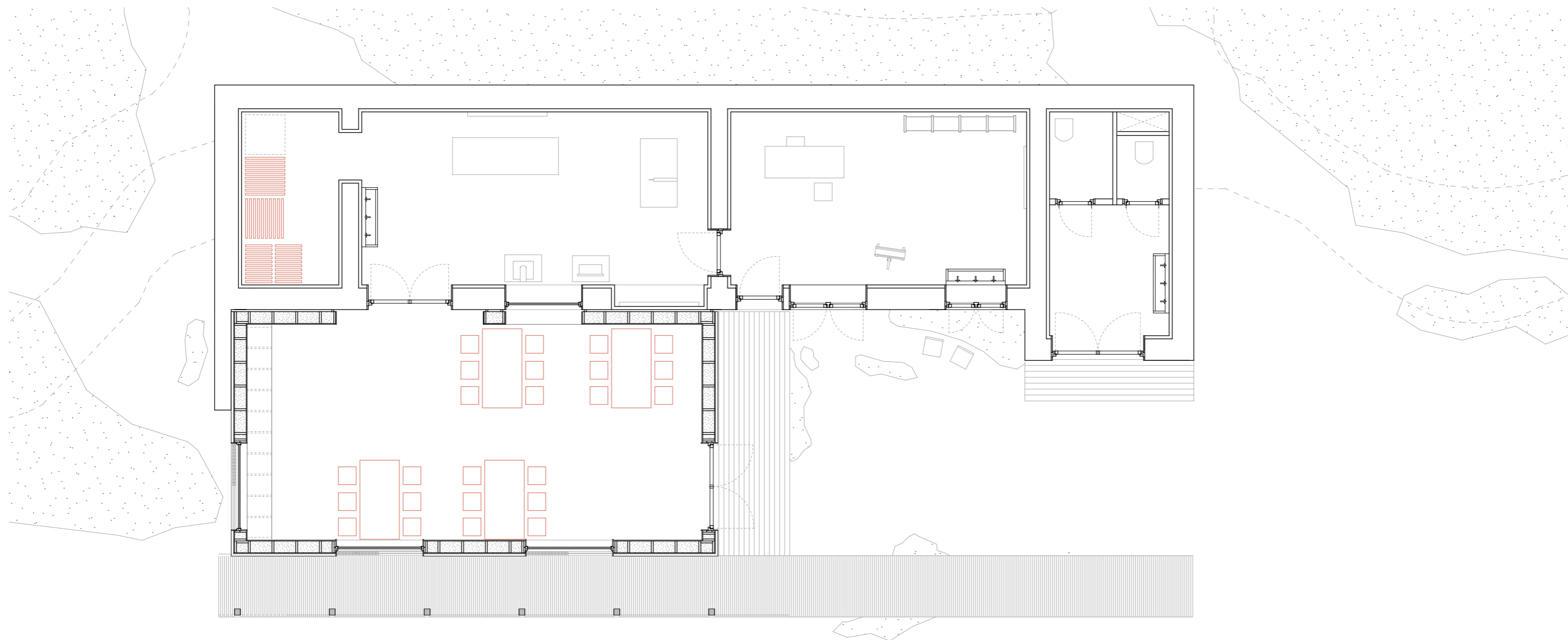
Permanent functions  
The workshop





# Floorplan

1:100



Flexible space  
The workshop

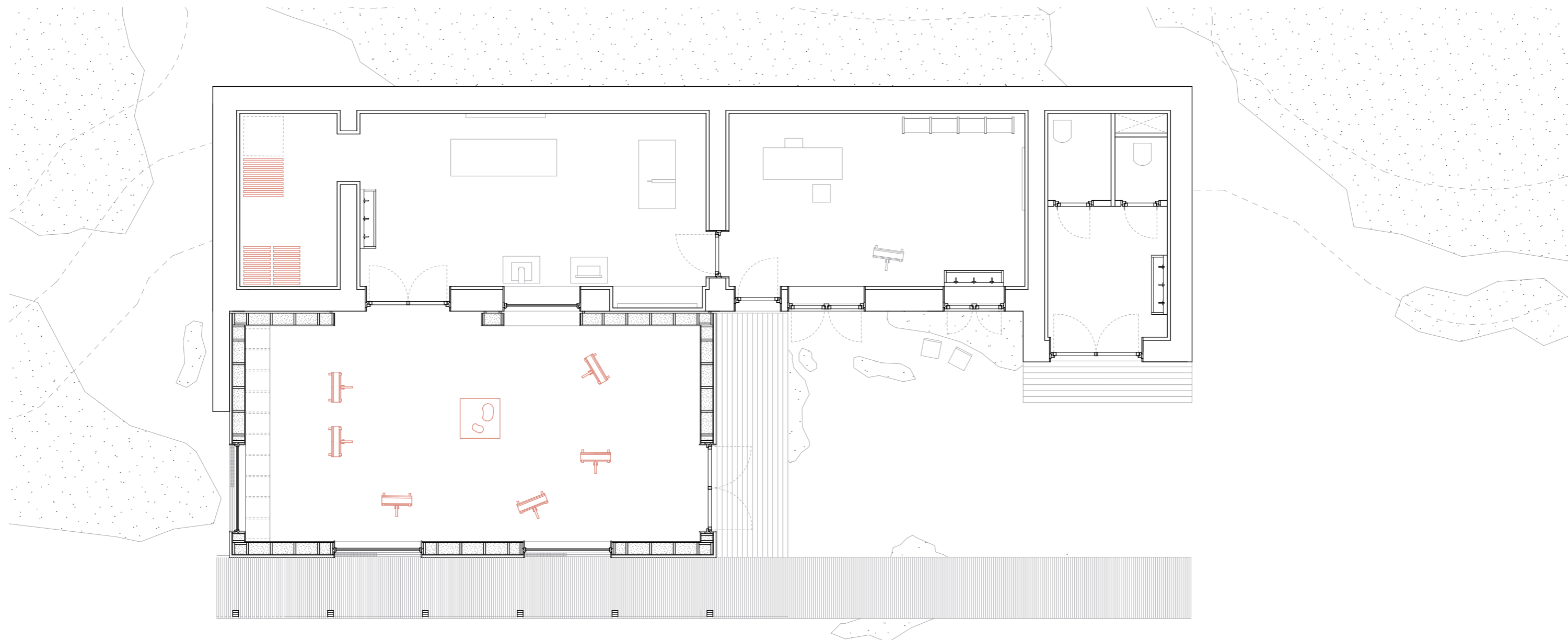




School projects  
The workshop

# Floorplan

1:100



Painting courses  
The workshop

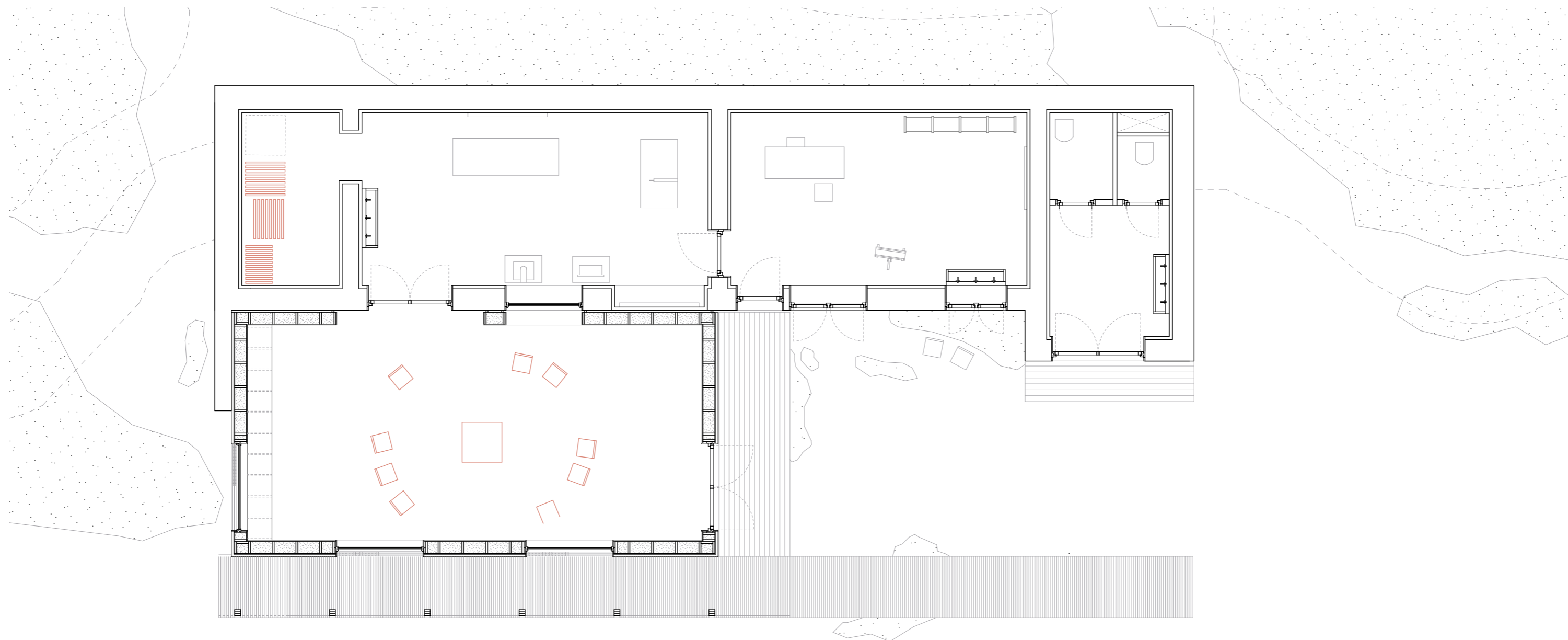




Painting courses  
The workshop

# Floorplan

1:100



Brainstorm sessions  
or theater practice

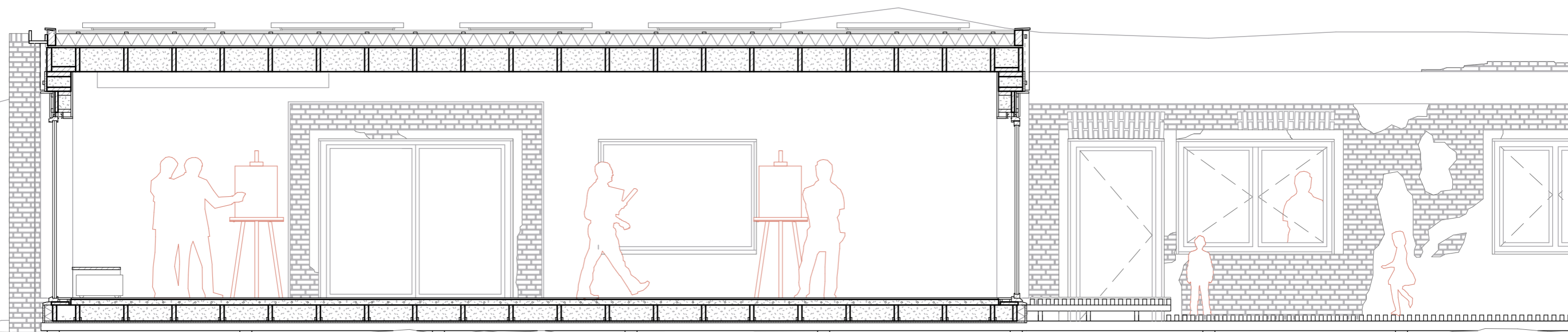




Brainstorm sessions  
or theater practice

Section

1:50



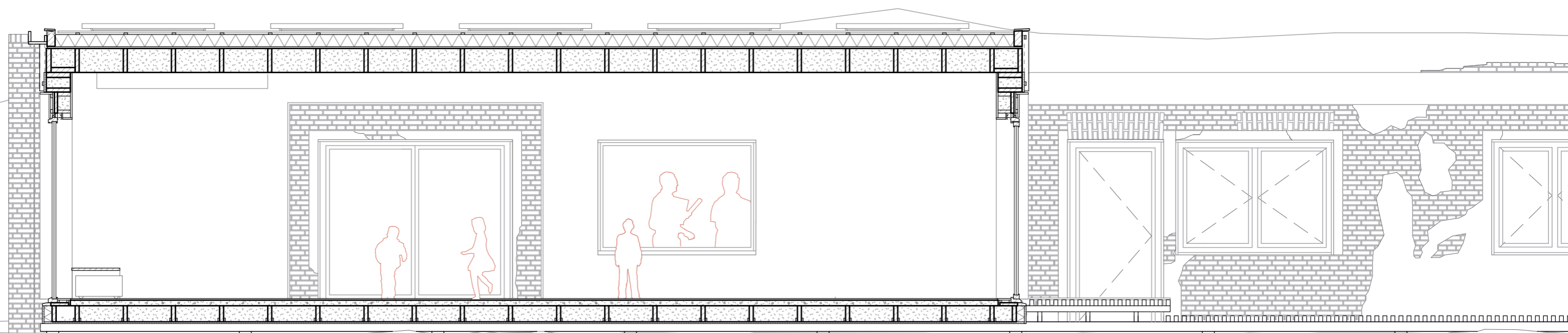
The workshop



1 2

Section

1:50



The workshop



1 2

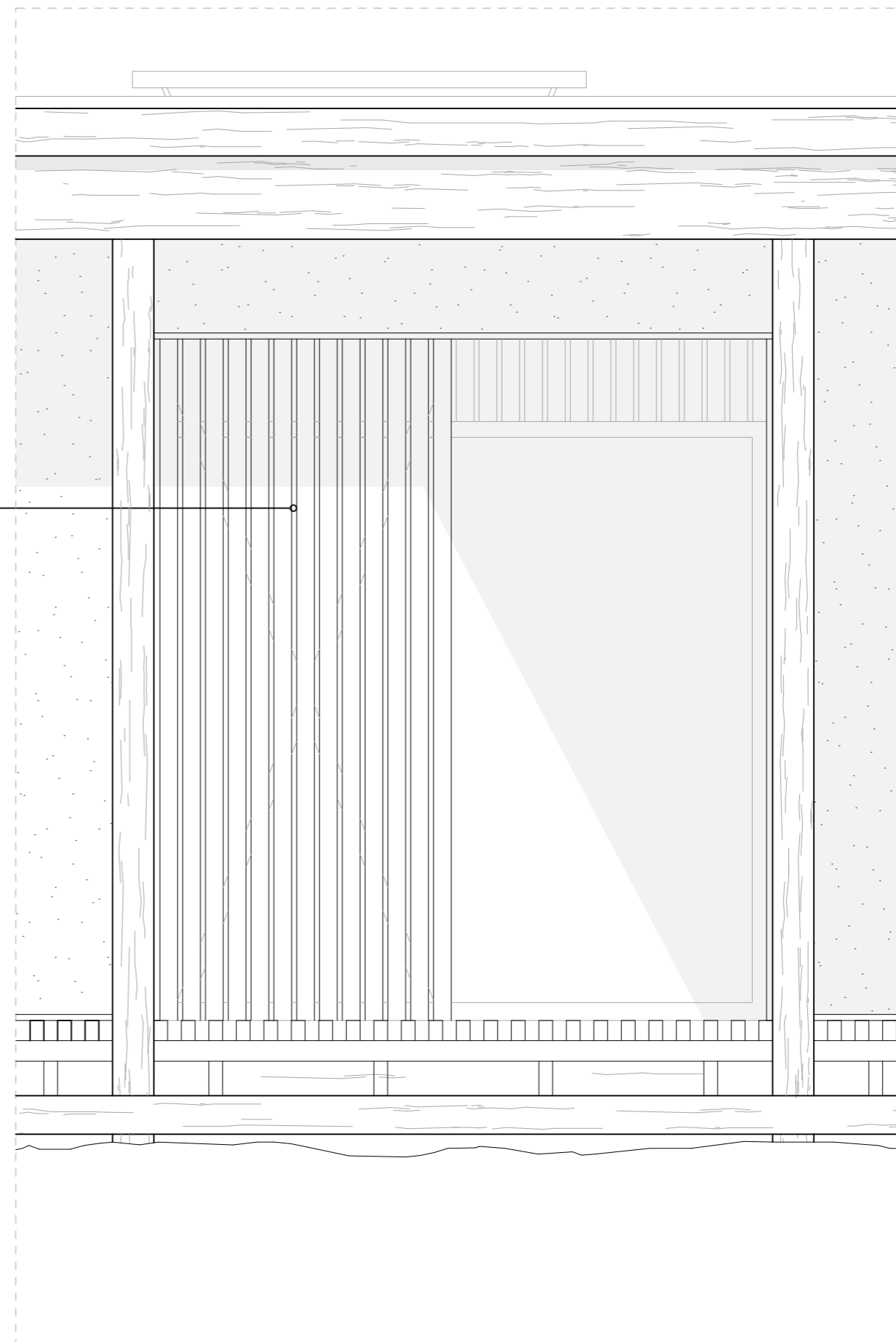
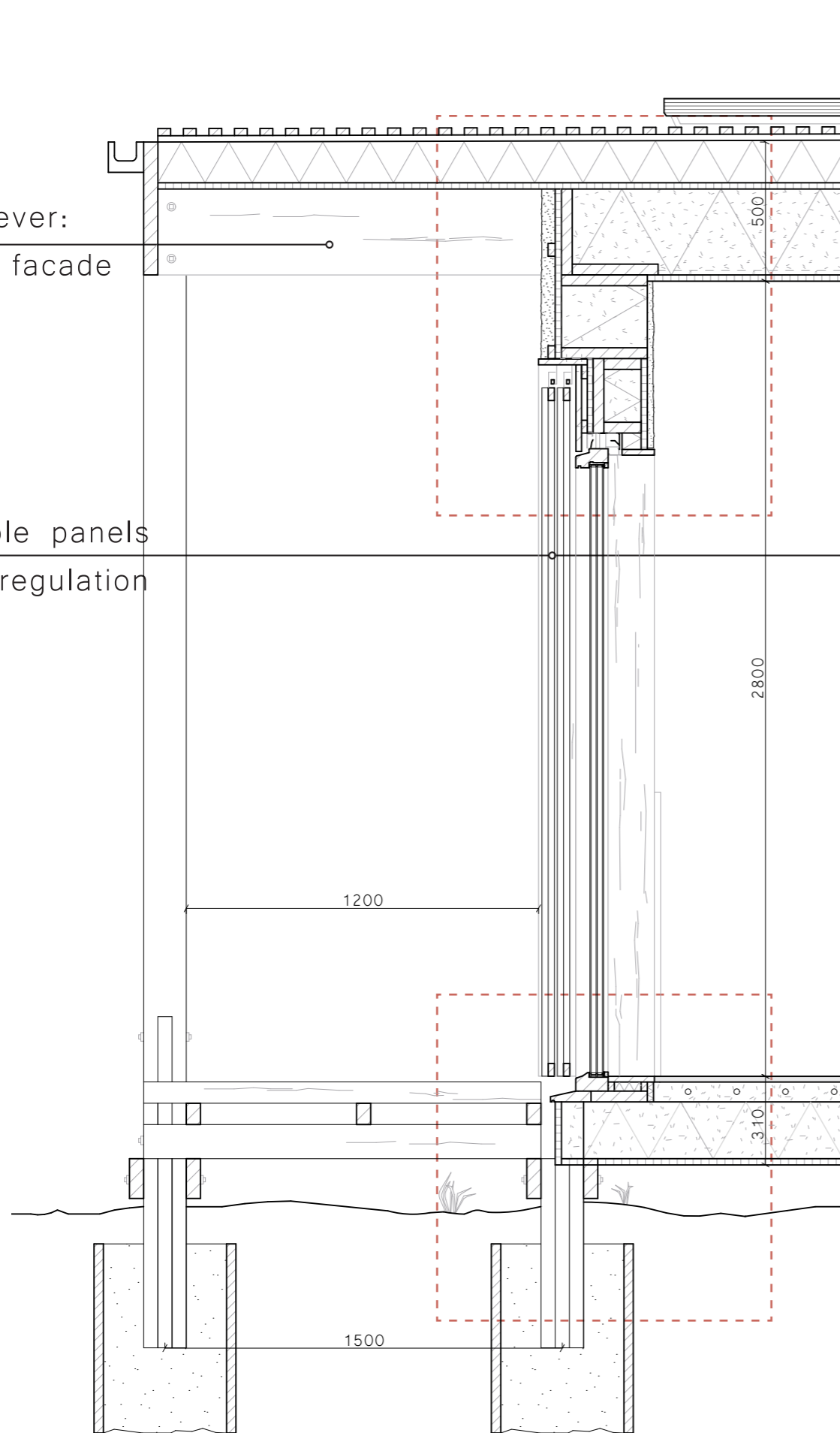


# Facade fragment

1:20

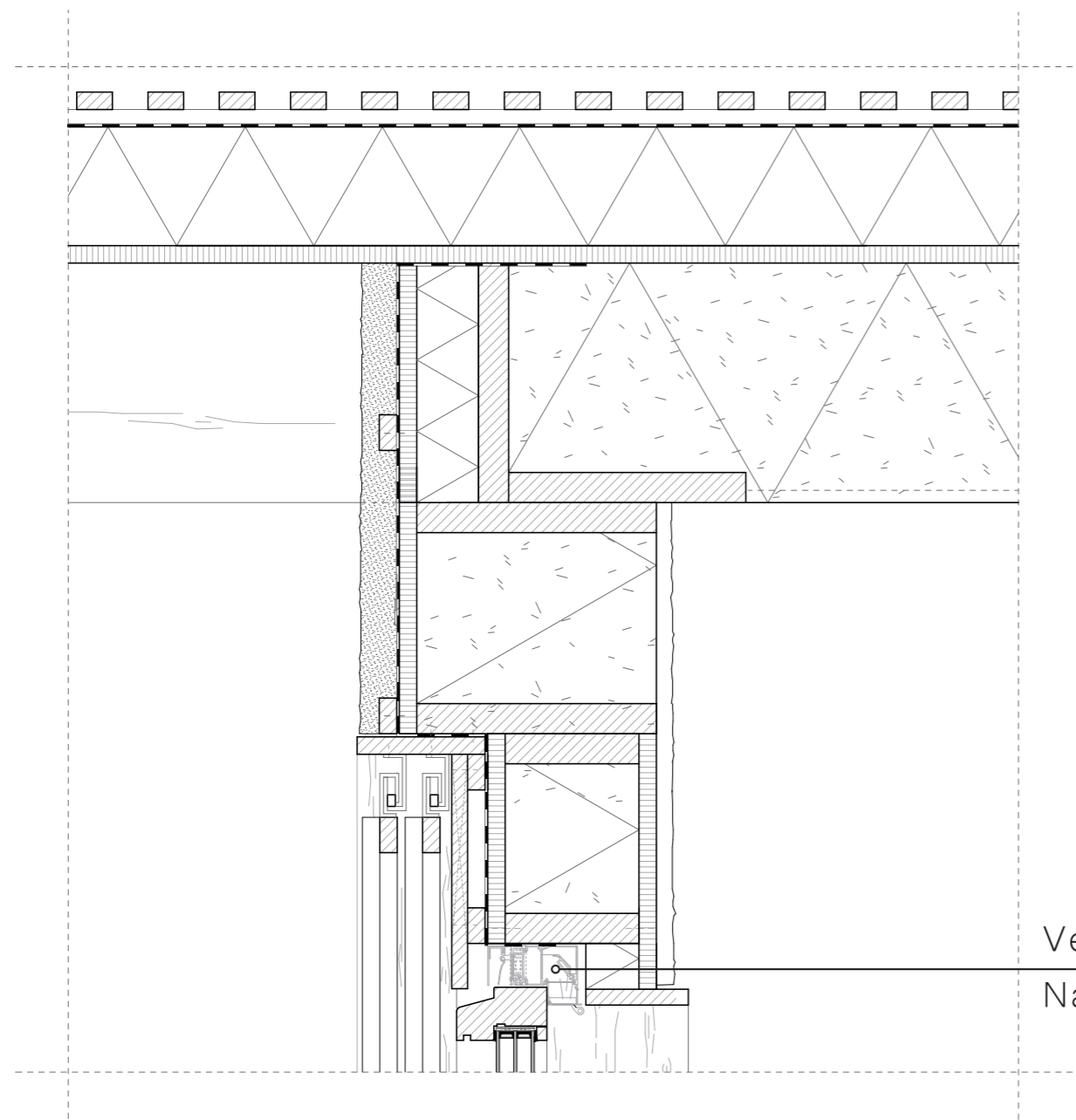
Cantilever:  
South facade

Movable panels  
Light regulation  
inside

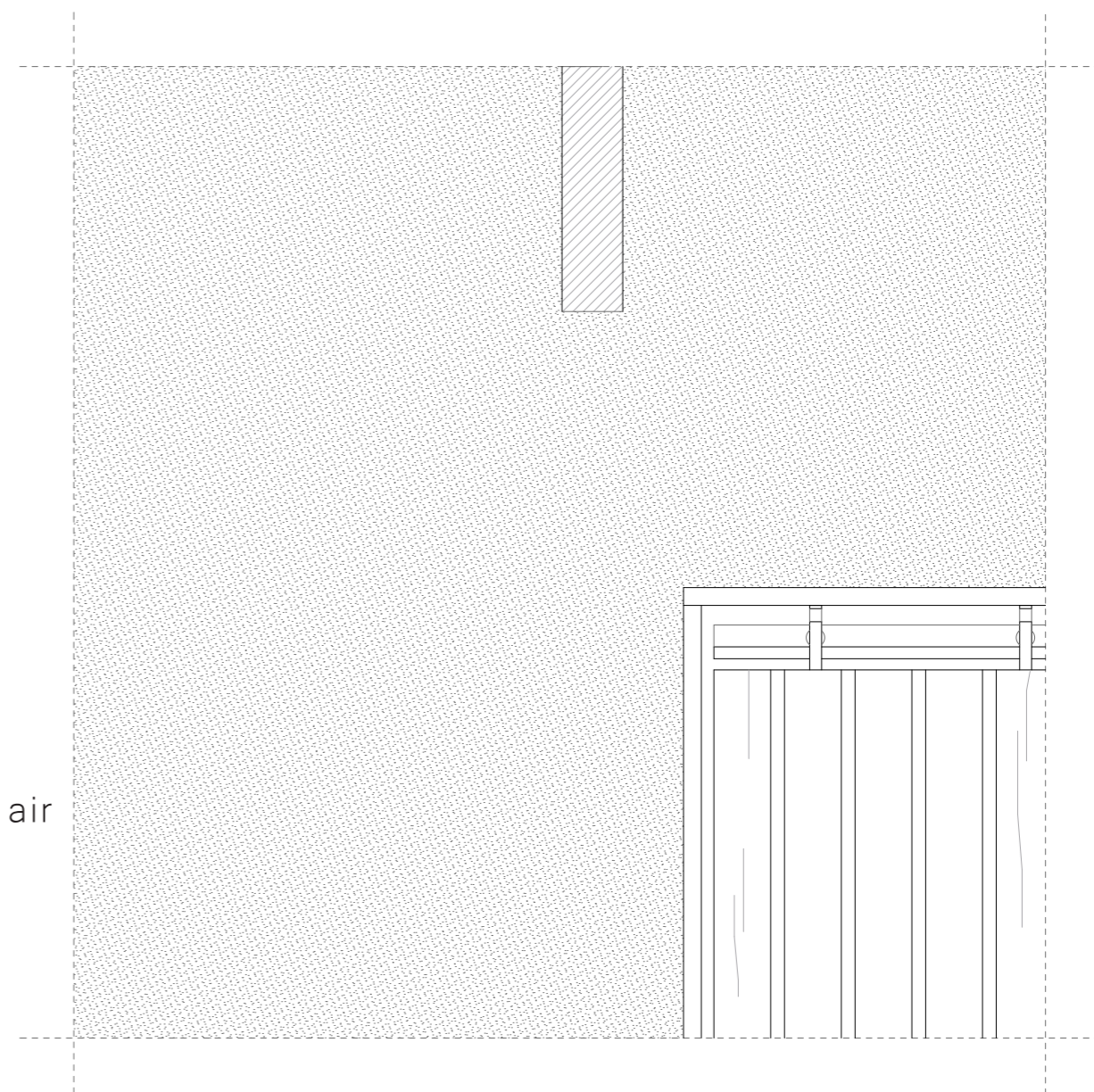


# Detail roof

Drawed at 1:5

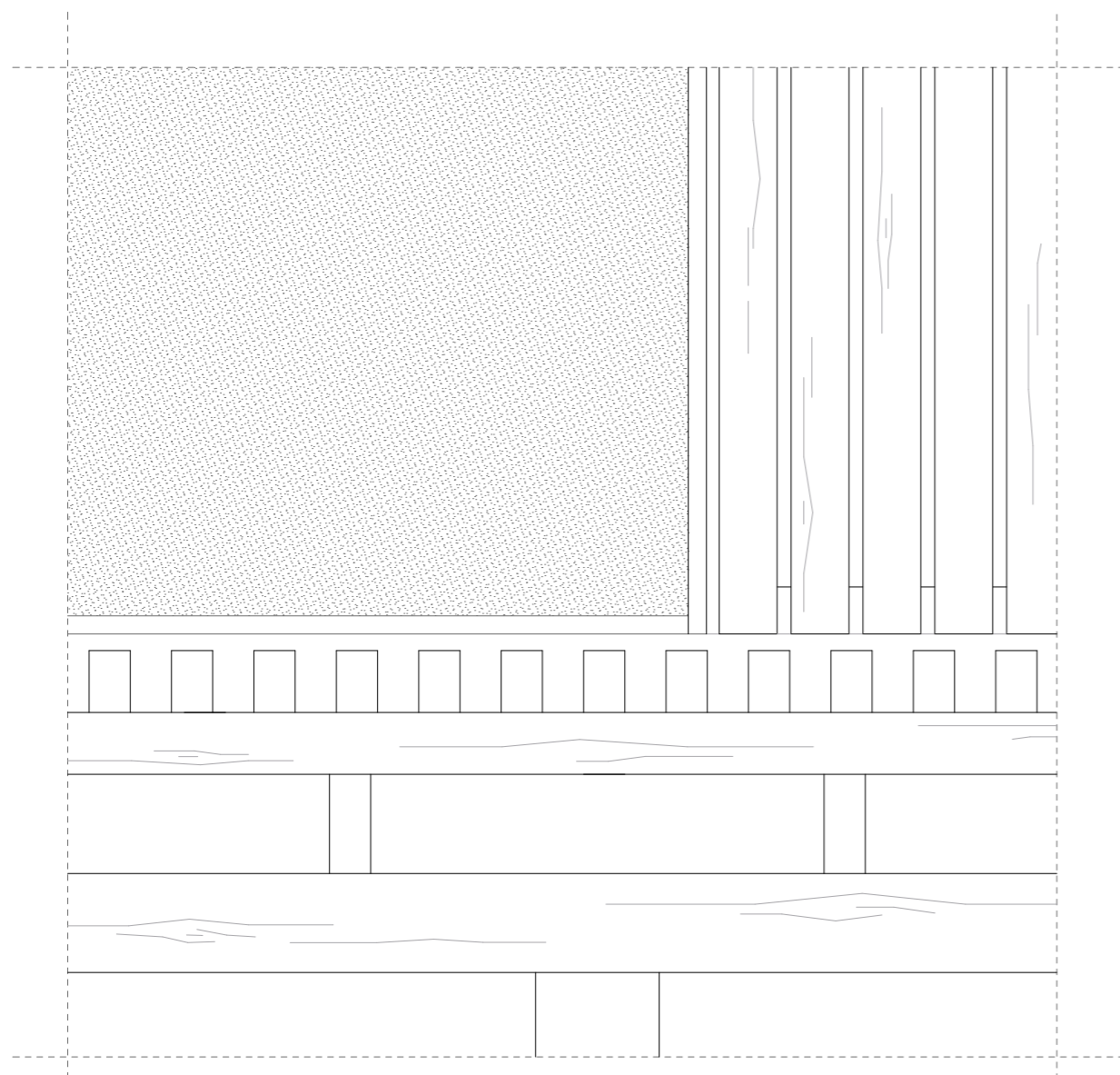


Ventilation grills:  
Natural supply of air



## Detail floor - facade

Drawed at 1:5



Facade: Vapor open

60mm Hemp-lime stuc

Vapor open water barrier

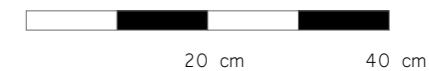
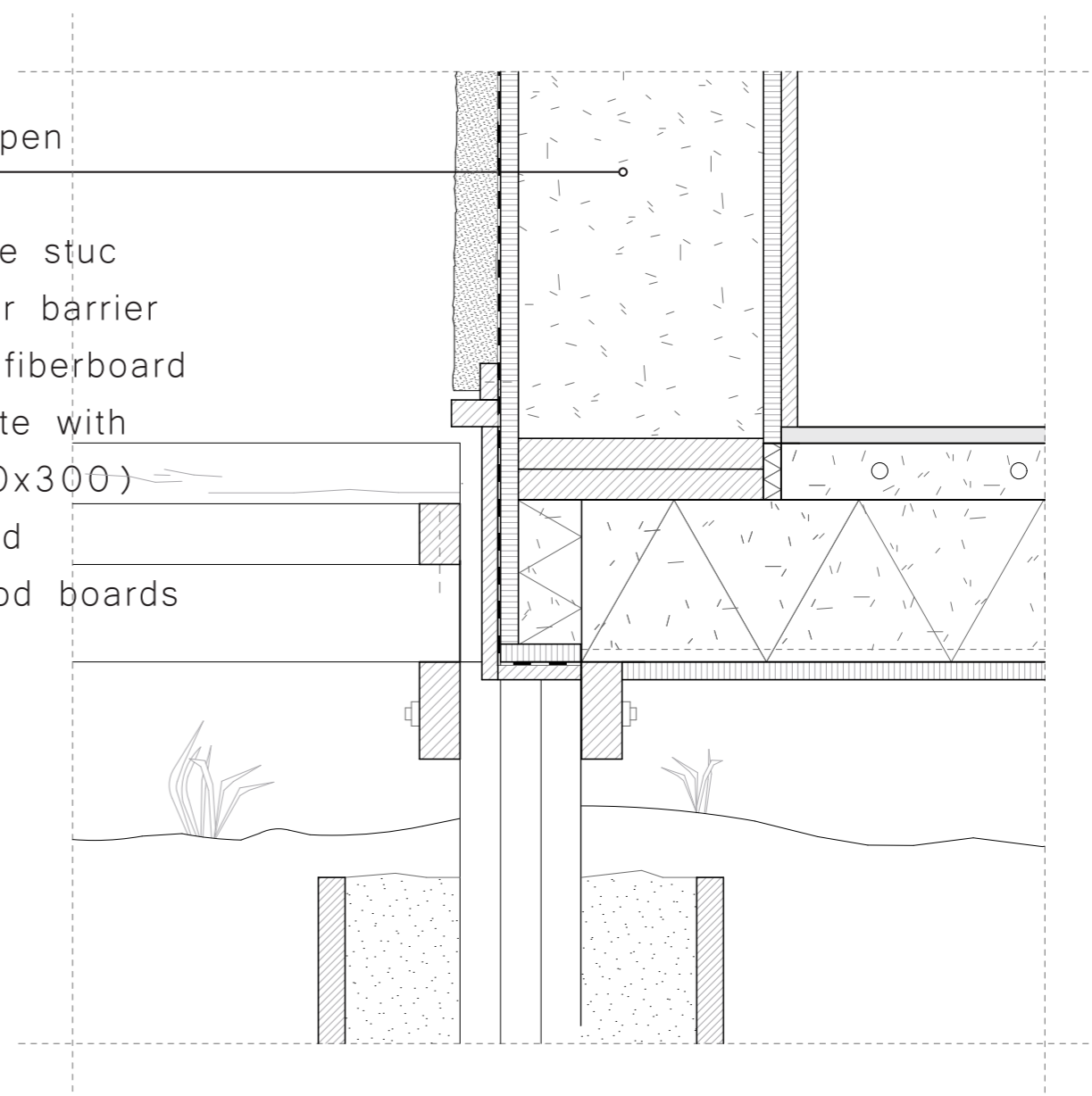
22 mm pavatex fiberboard

300mm hempcrete with  
timber studs (50x300)

22 mm fiberboard

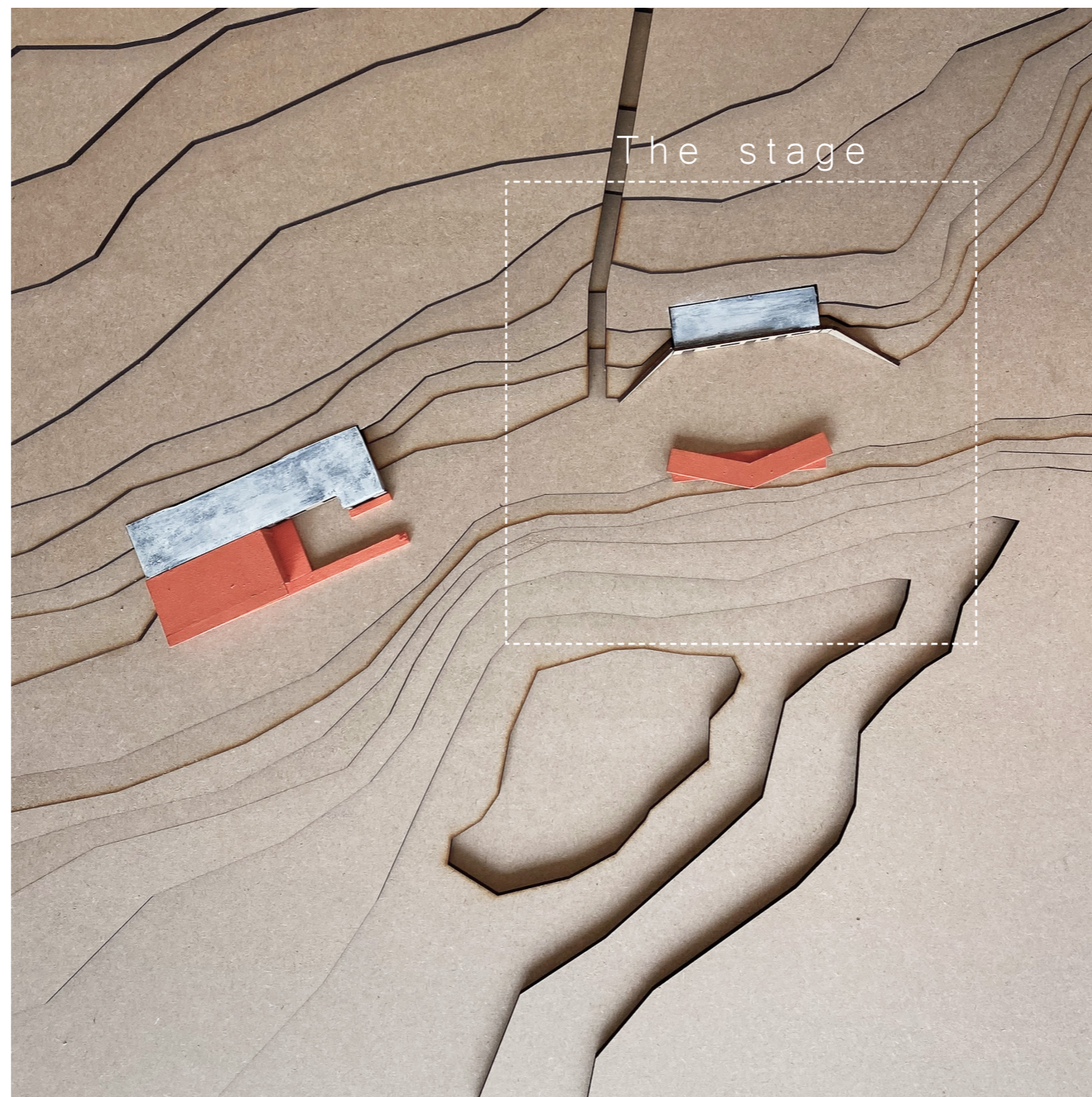
30 mm pine wood boards

Rc: 5,4 m<sup>2</sup>K/W



20 cm

40 cm



Midsland aan Zee  
The stage



The stage



The stage



The stage

Elevation

1:100



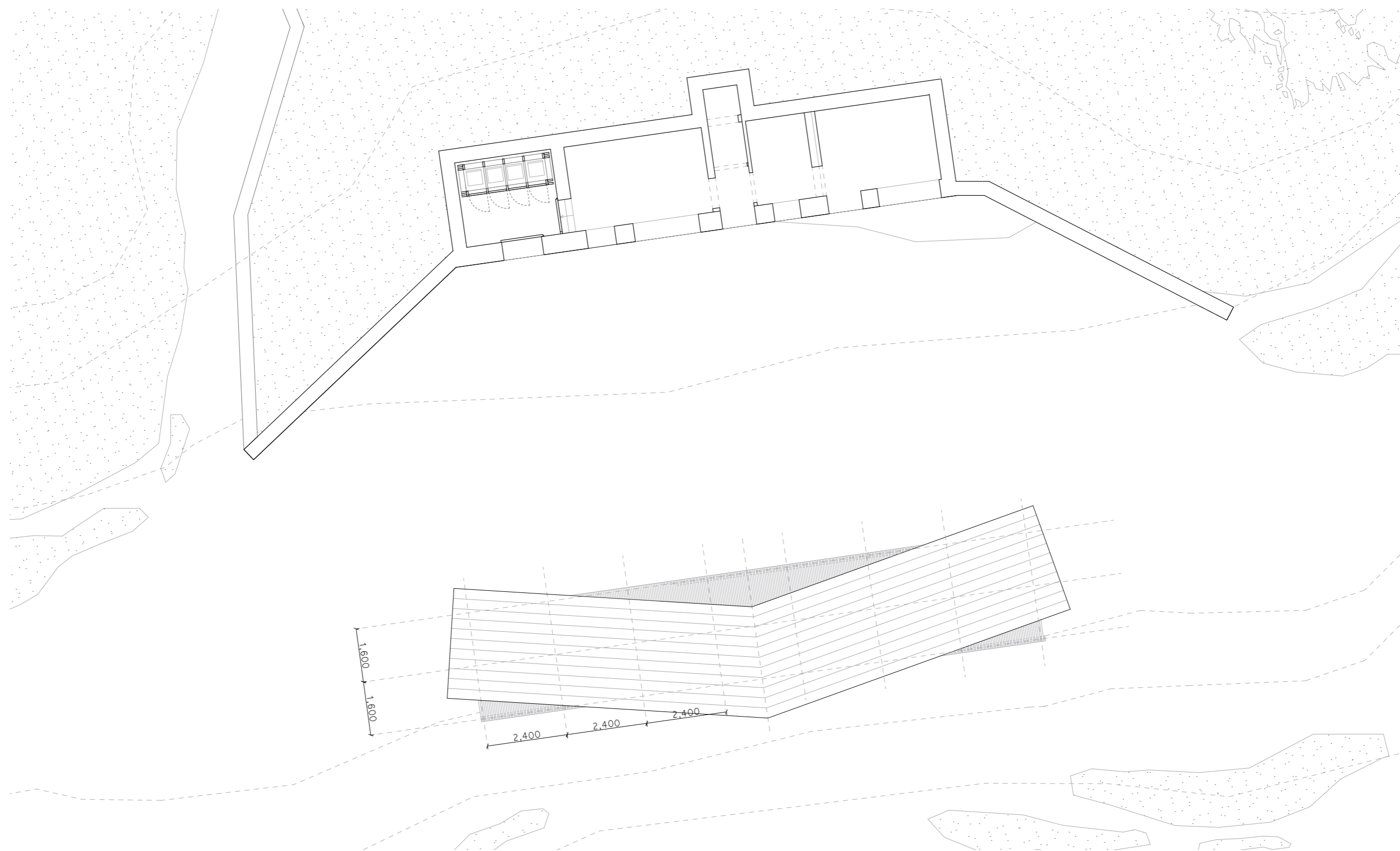
The stage





# Floorplan

1:100



The stage





West duin  
The projection room



West duin  
The projection room



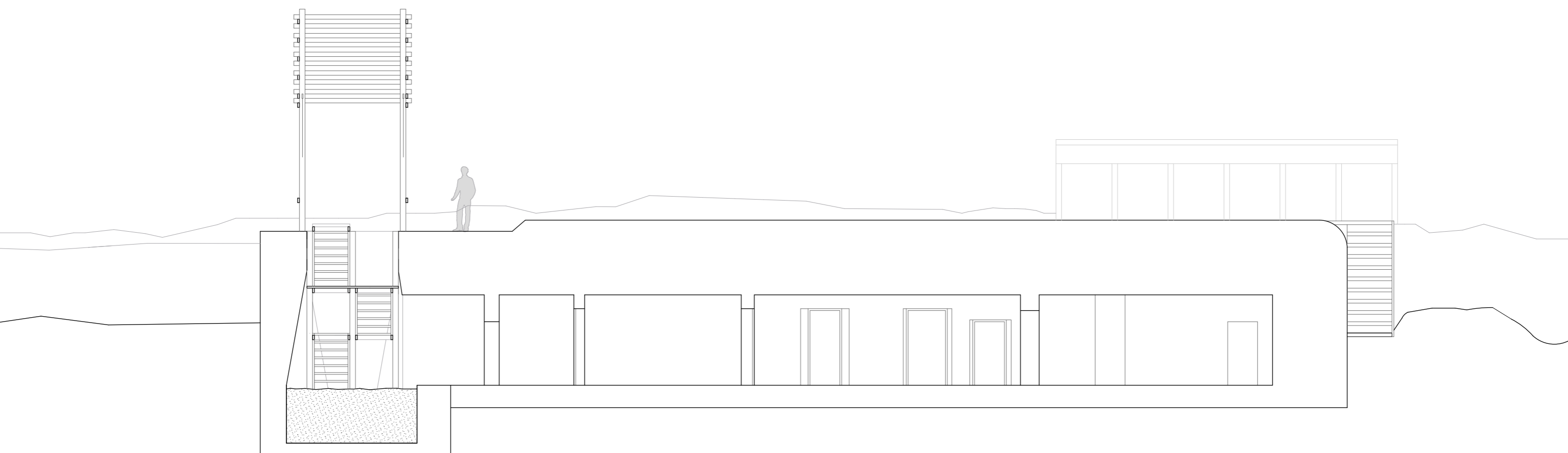
Radar installation



West duin  
The projection room

Section AA'

1:100

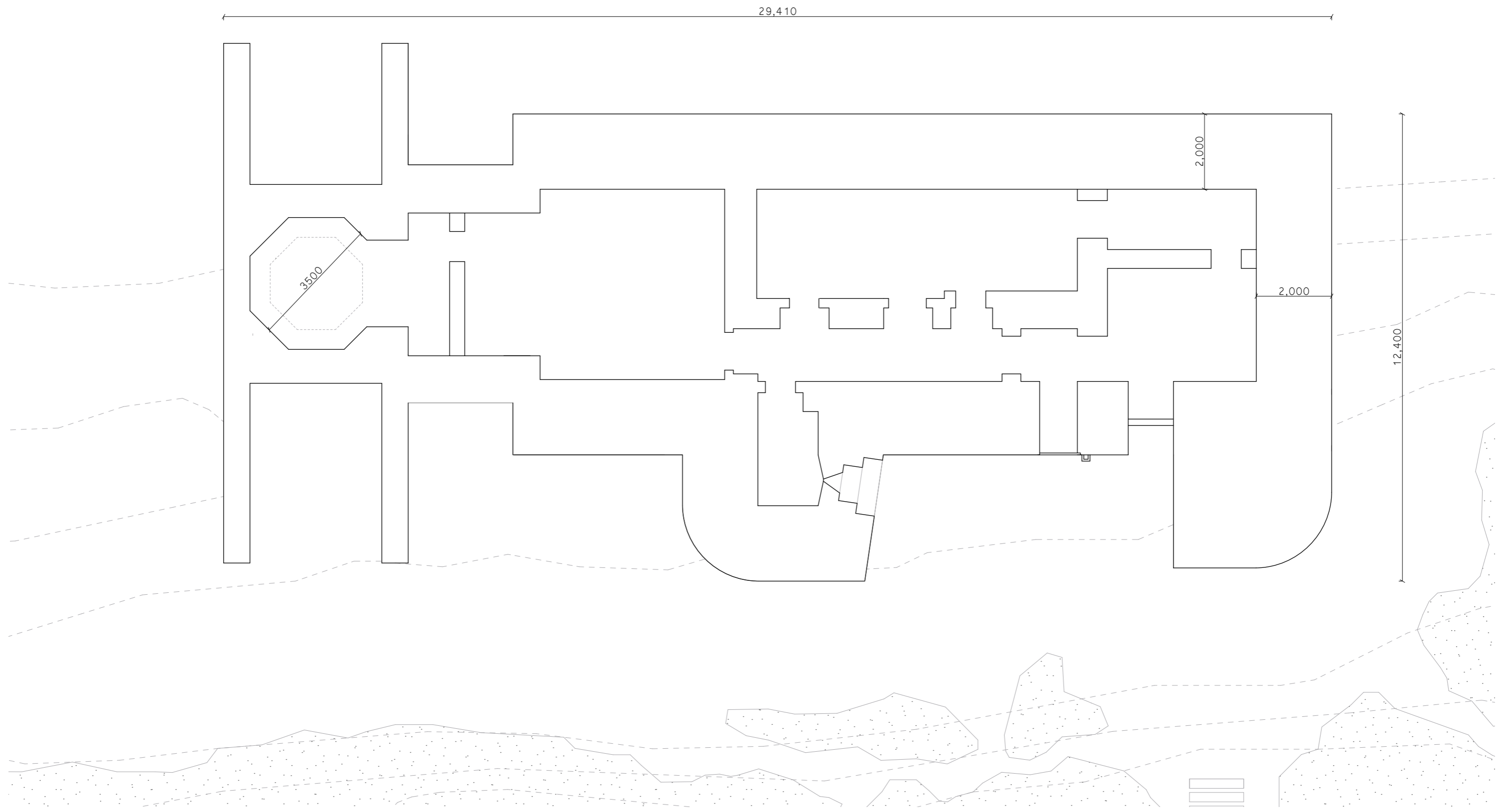


The projection room



# Floorplan

1:100

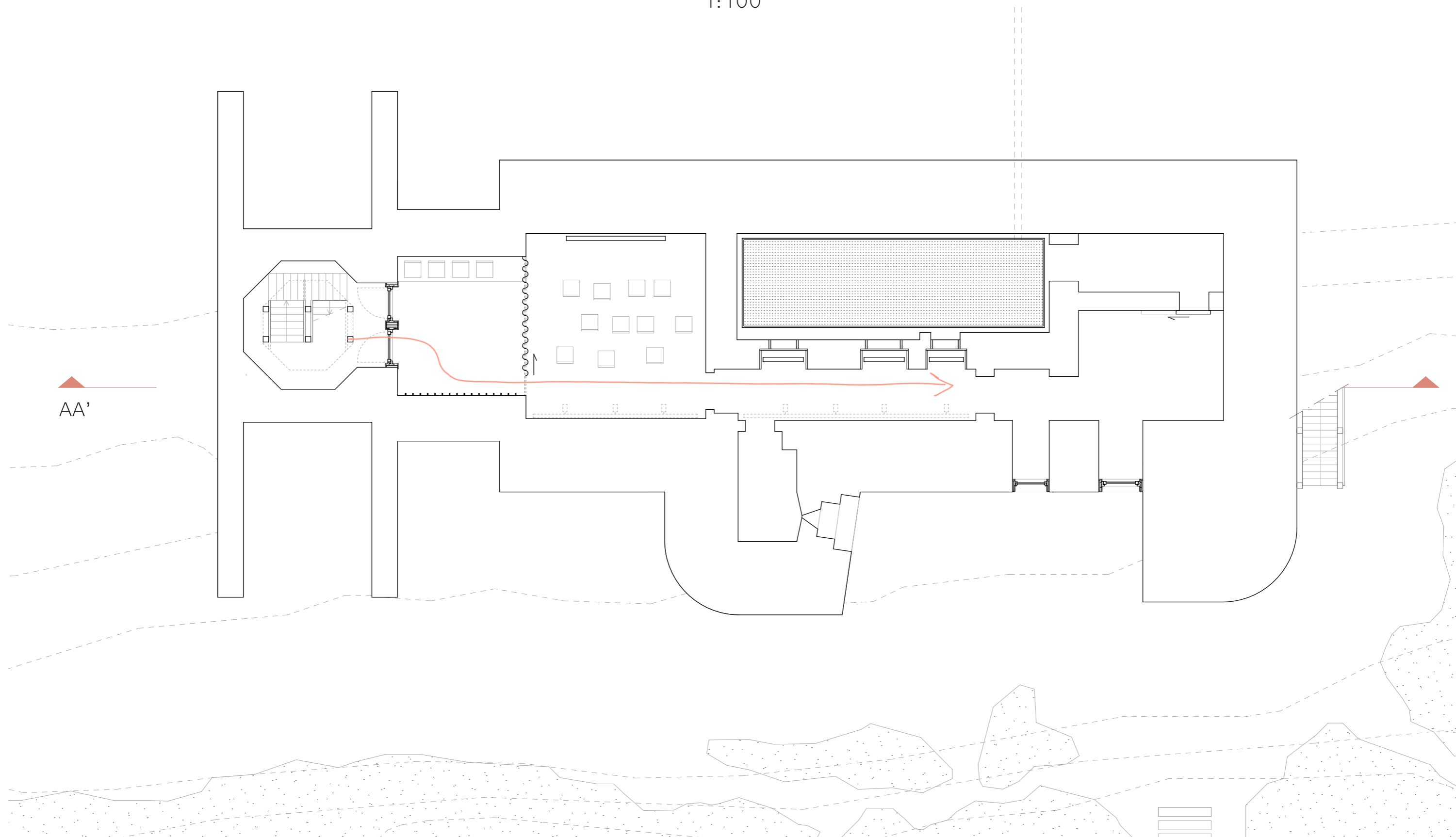


The projection room

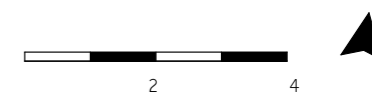


# Floorplan

1:100



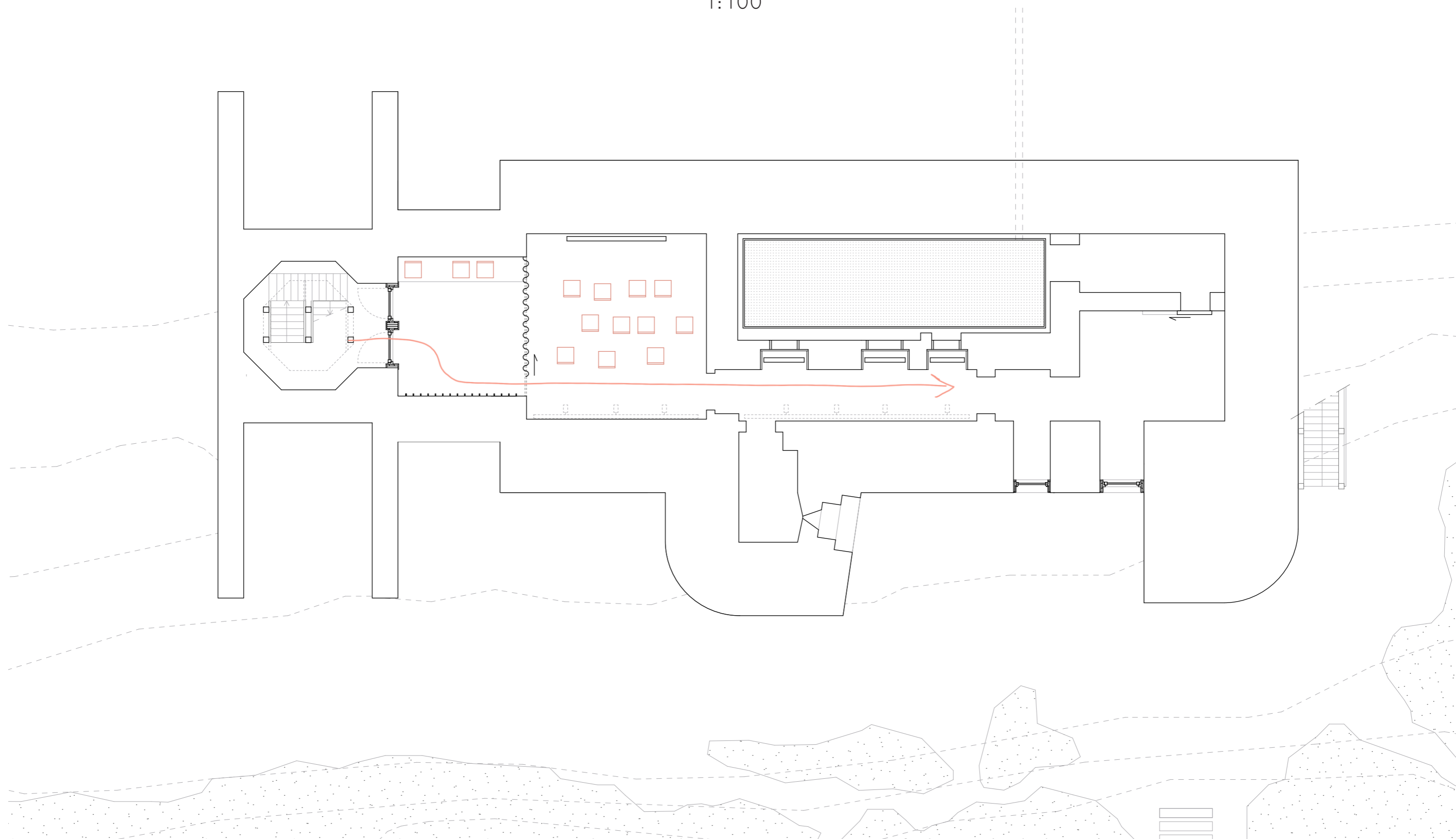
The projection room





# Floorplan

1:100



The projection room

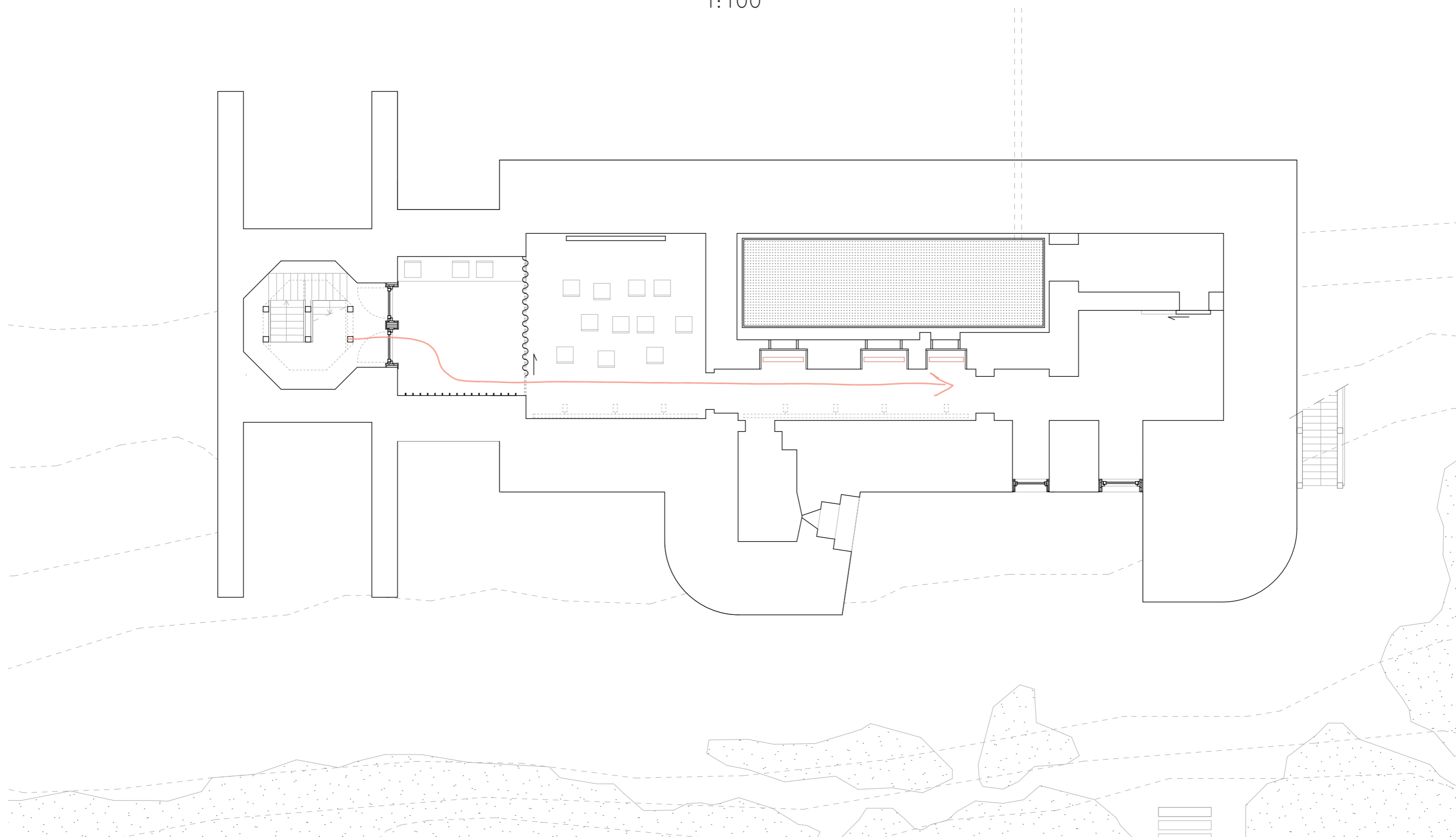




Screening  
The projection room

# Floorplan

1:100



The projection room

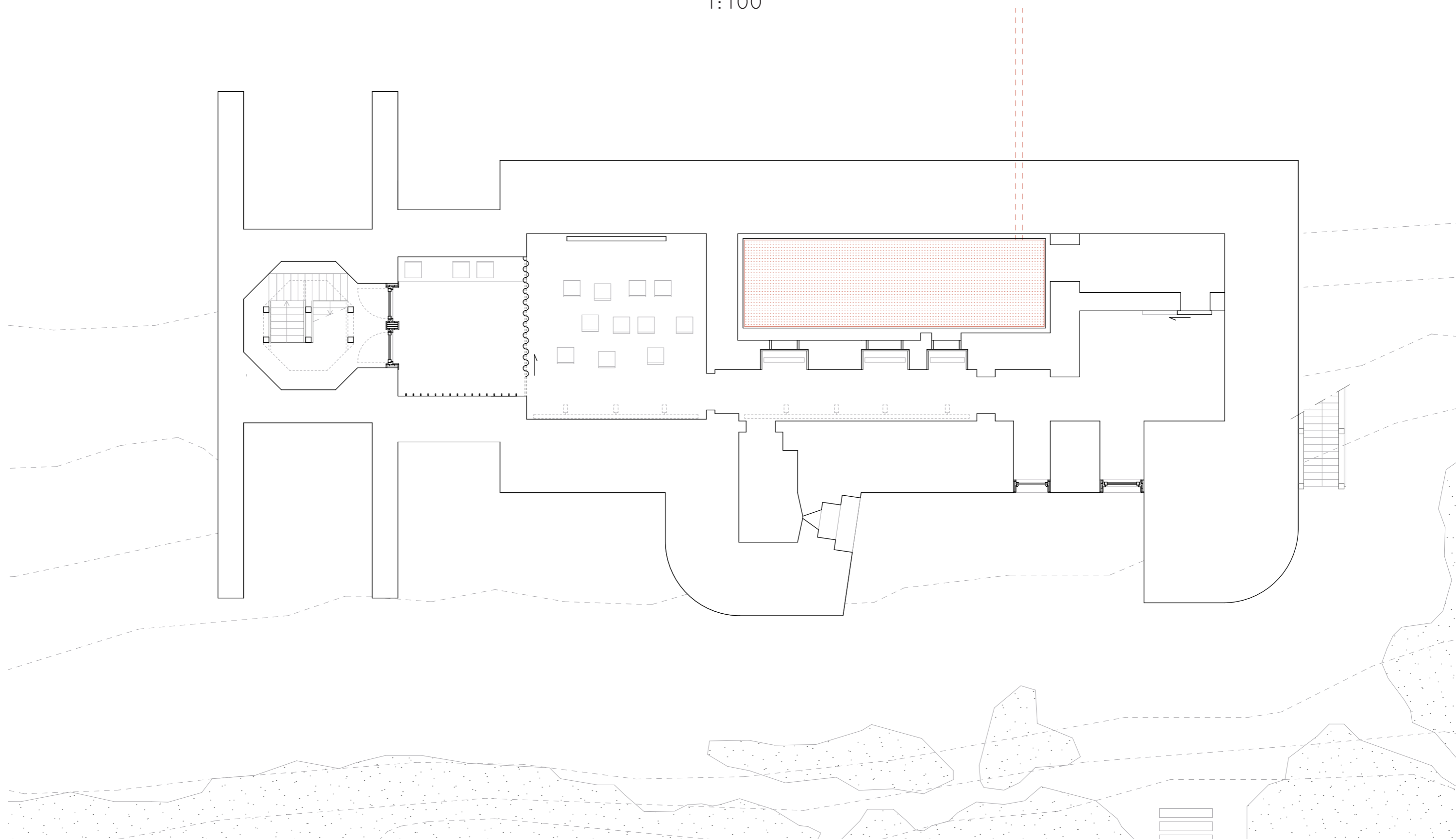




Expo alley  
The projection room

# Floorplan

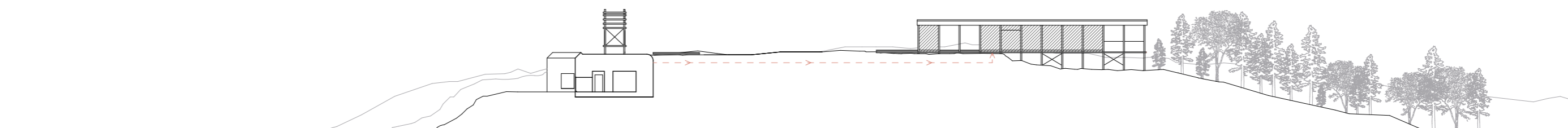
1:100



The projection room



Climate  
Section West Duin 1:500



Bunker= water source  
--> Less impairment of dunes

Cable is perforated  
--> Less impairment of dunes

Heat pump:  
Floor heating and cooling





West duin  
The pavilion

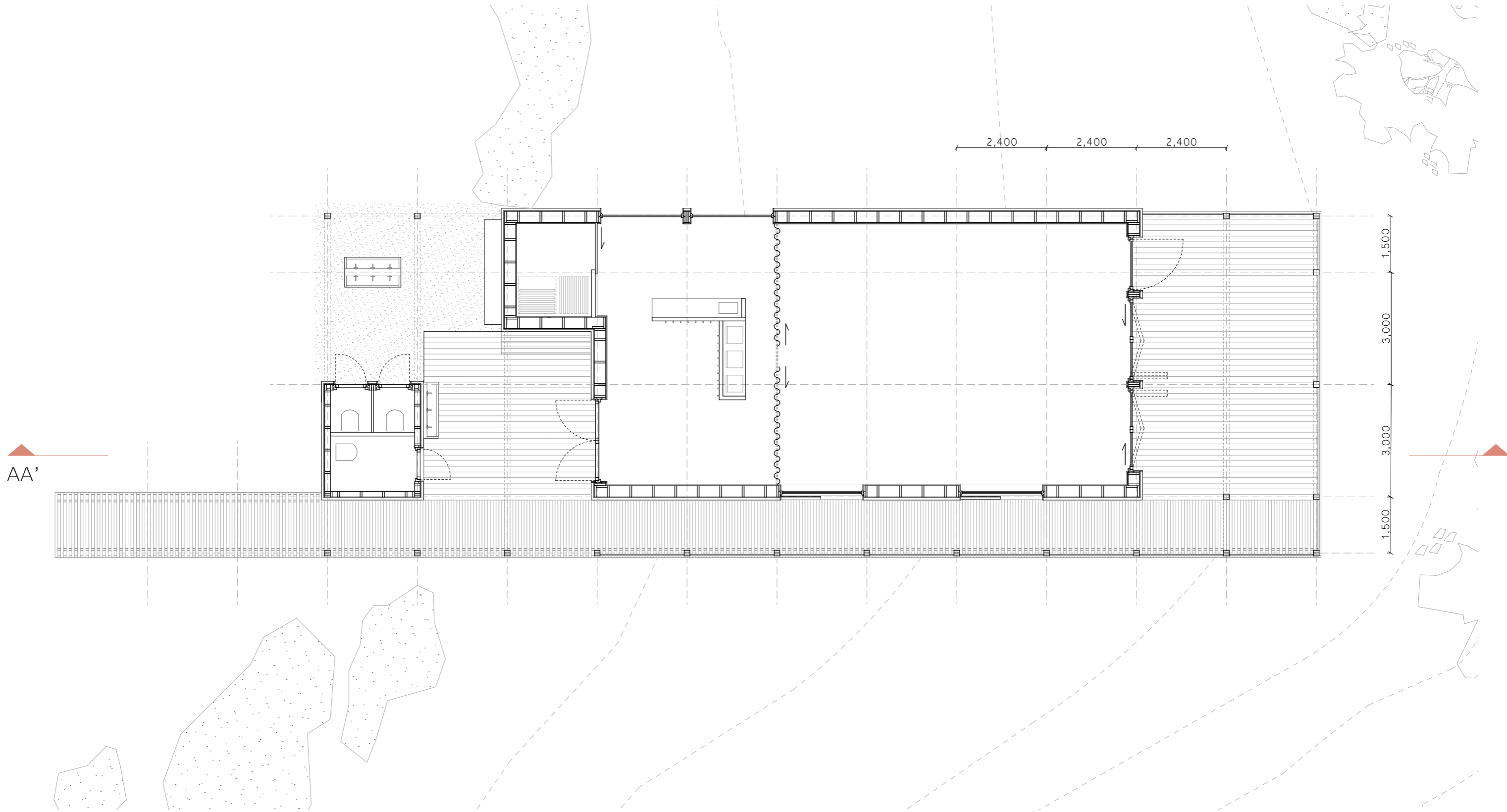


West duin  
The pavilion

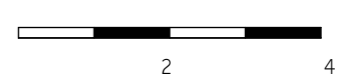


# Floorplan

1:100



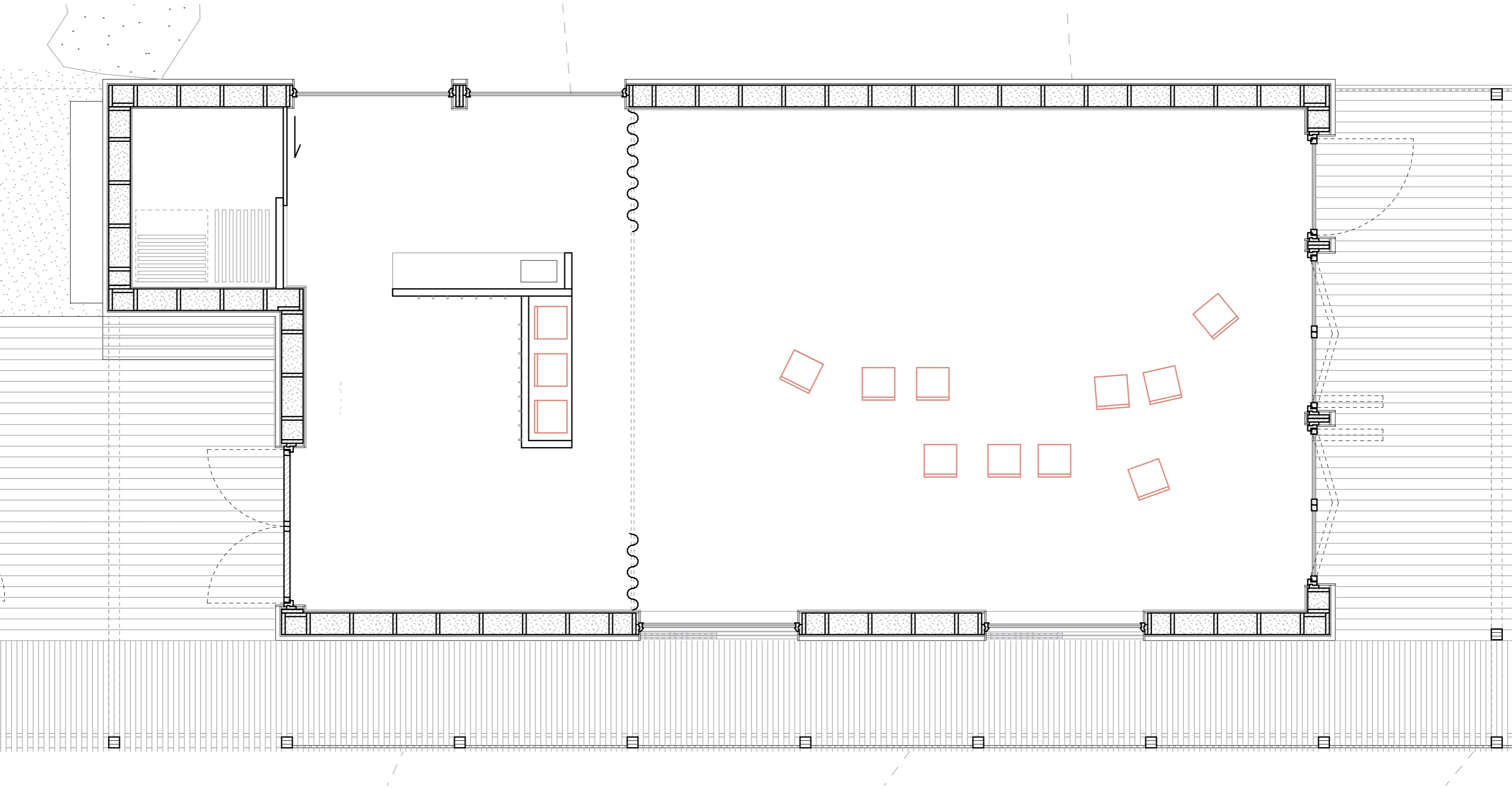
The pavilion





Entering  
The pavilion

Floorplan  
1:50



The pavilion



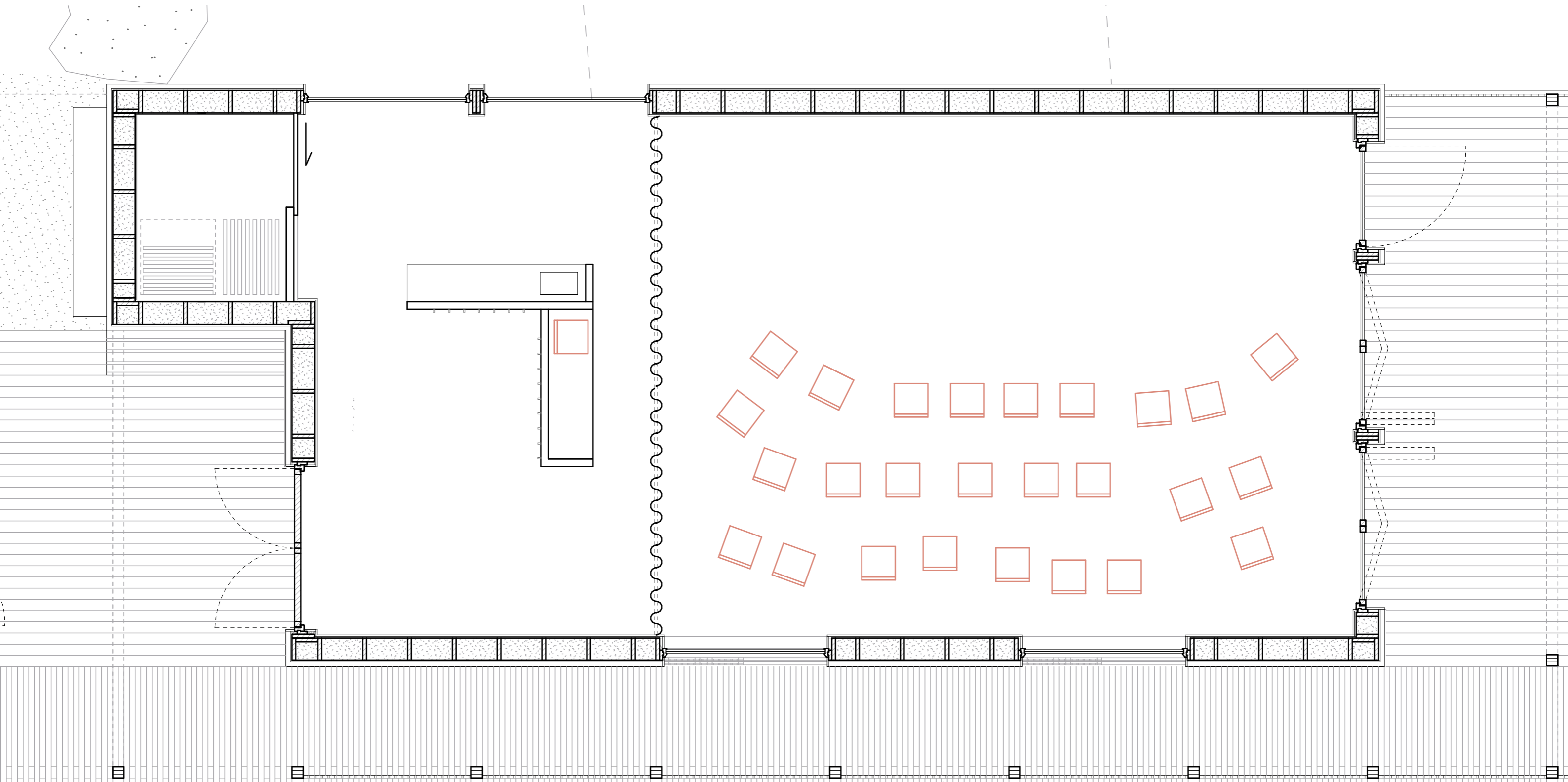
1 2





Pick your seat  
The pavilion

Floorplan  
1:50



The pavilion



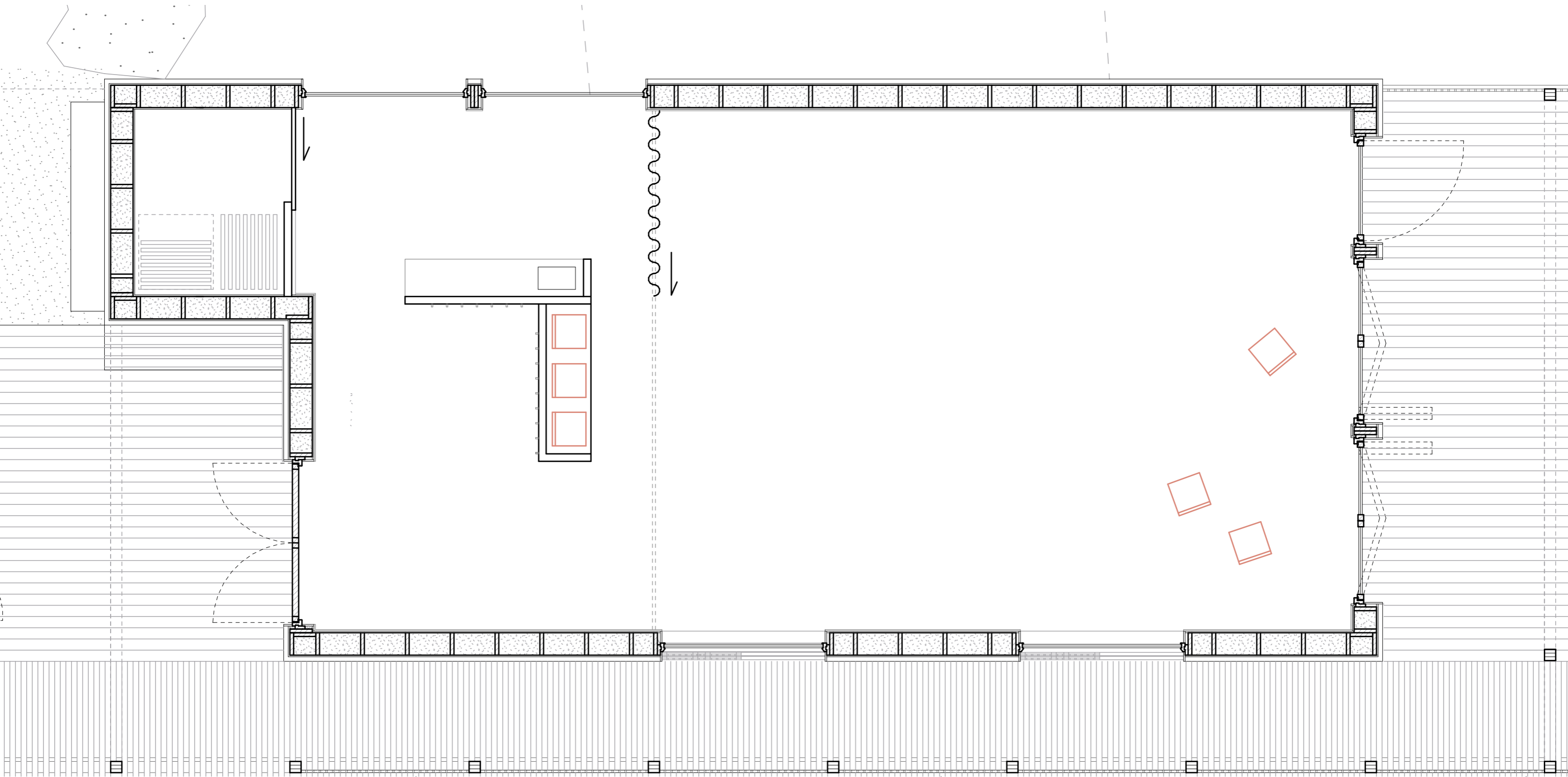
1 2





The Oerol college  
The pavilion

Floorplan  
1:50



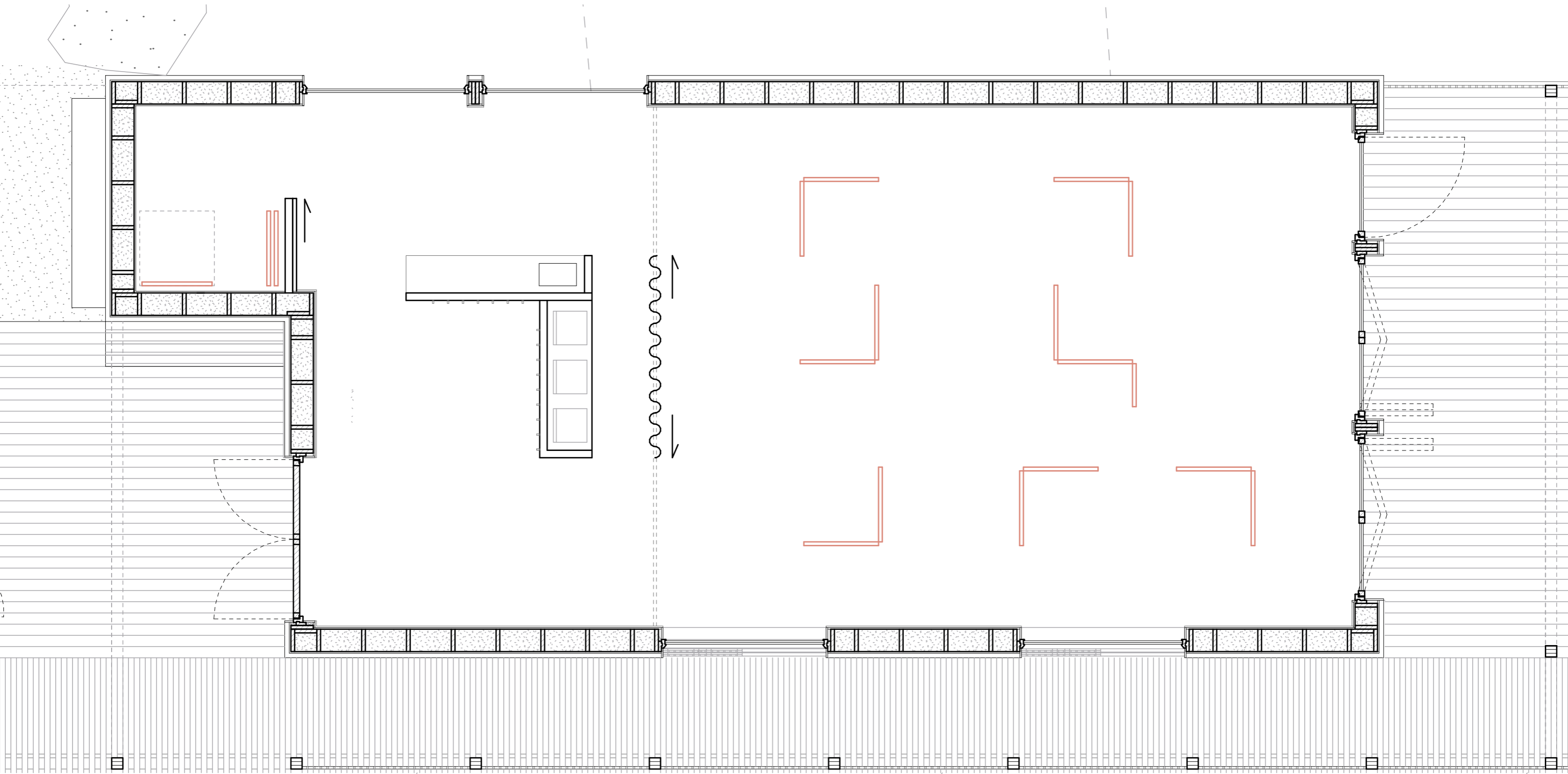
The pavilion



1 2



Floorplan  
1:50



The pavilion



1 2

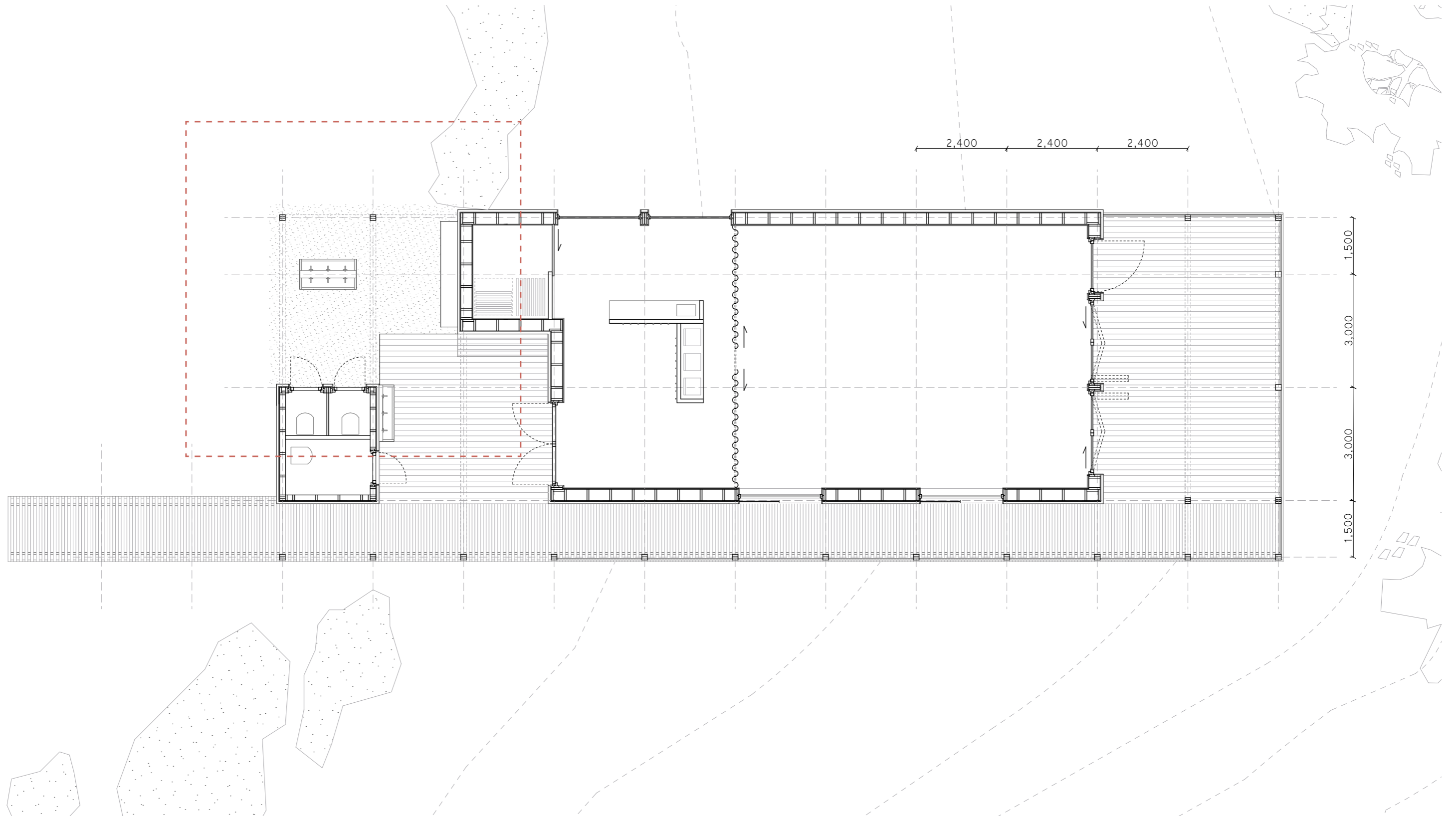






Exhibiton  
The pavilion

Floorplan  
1:100



The pavilion



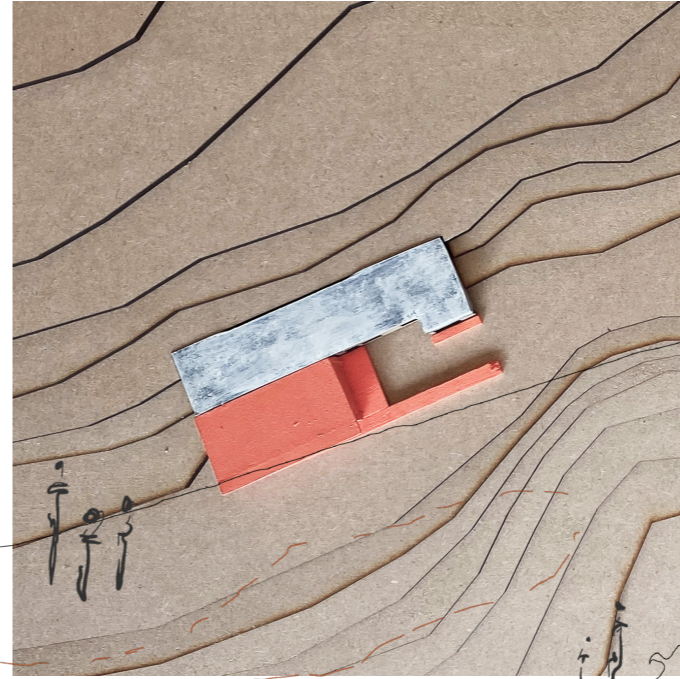


Patio  
The pavilion

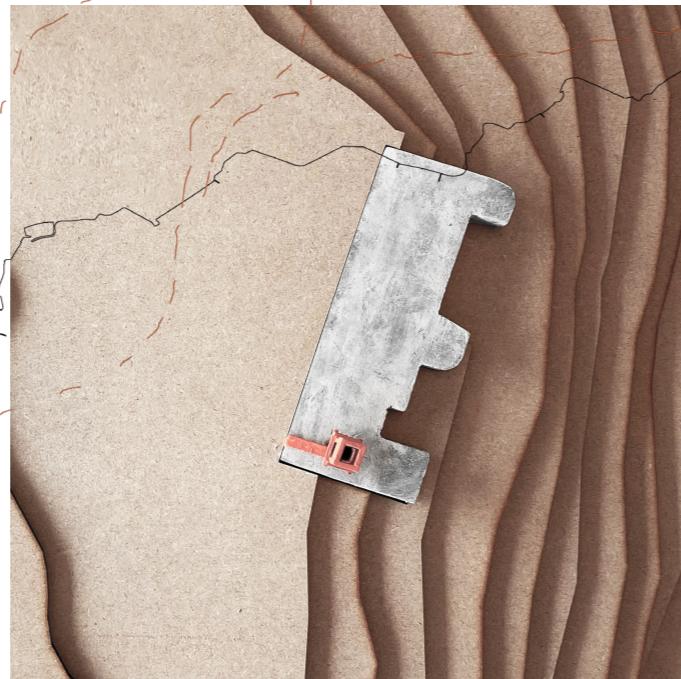
**ZOOMING OUT**



The pavilion



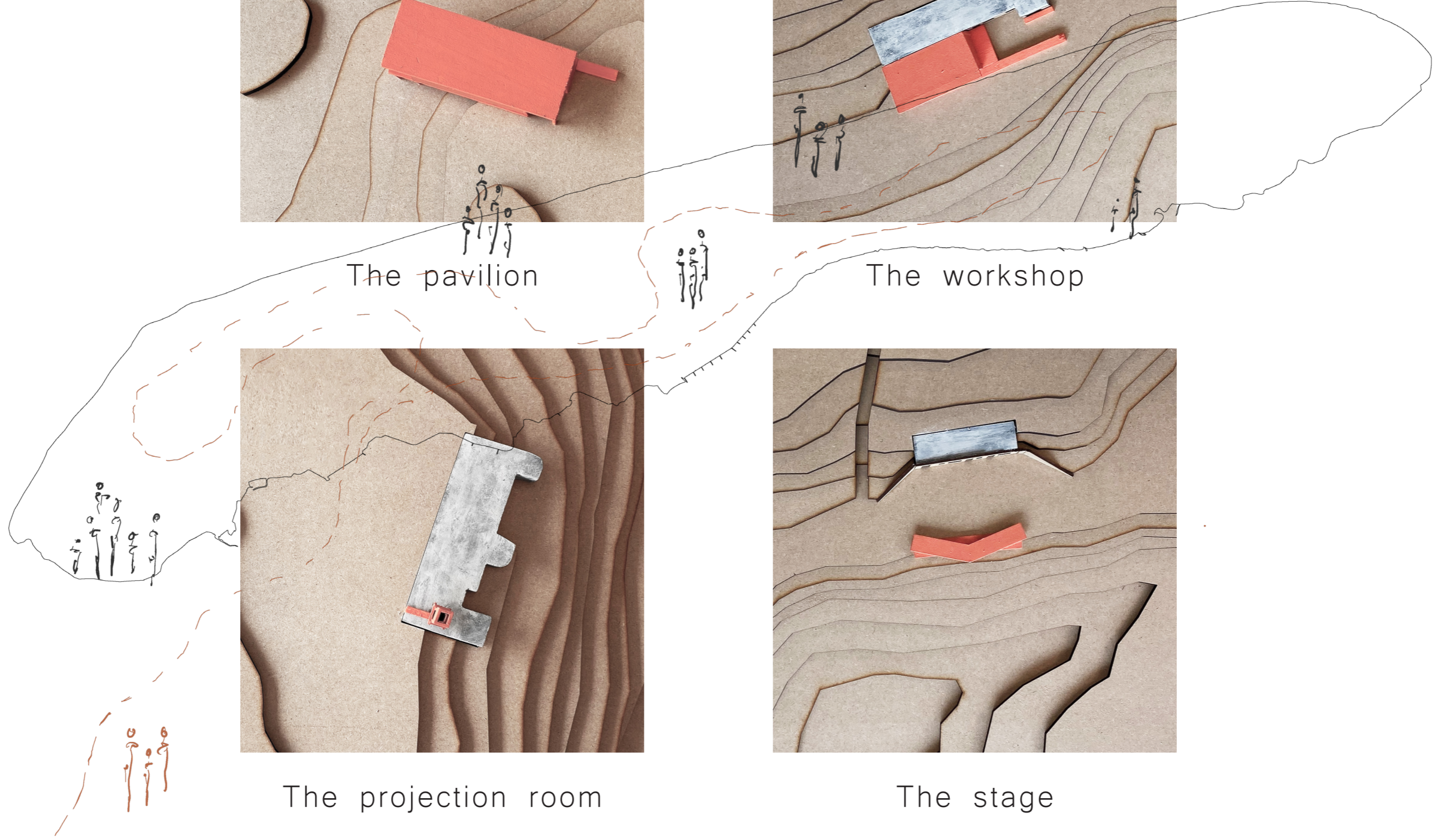
The workshop



The projection room



The stage



Learning spaces  
Knowledge exchange



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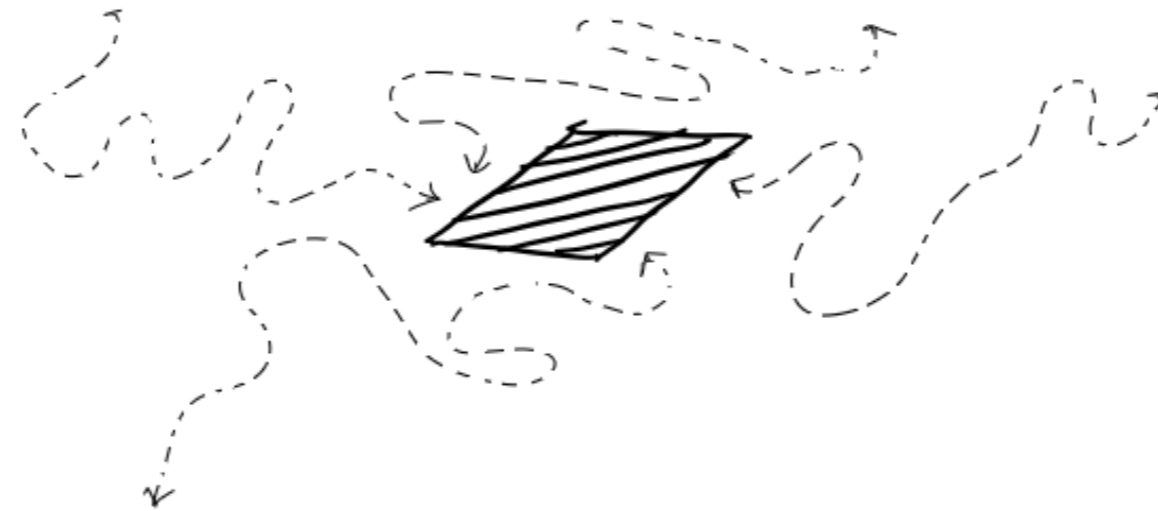
Realistic

Idealistic

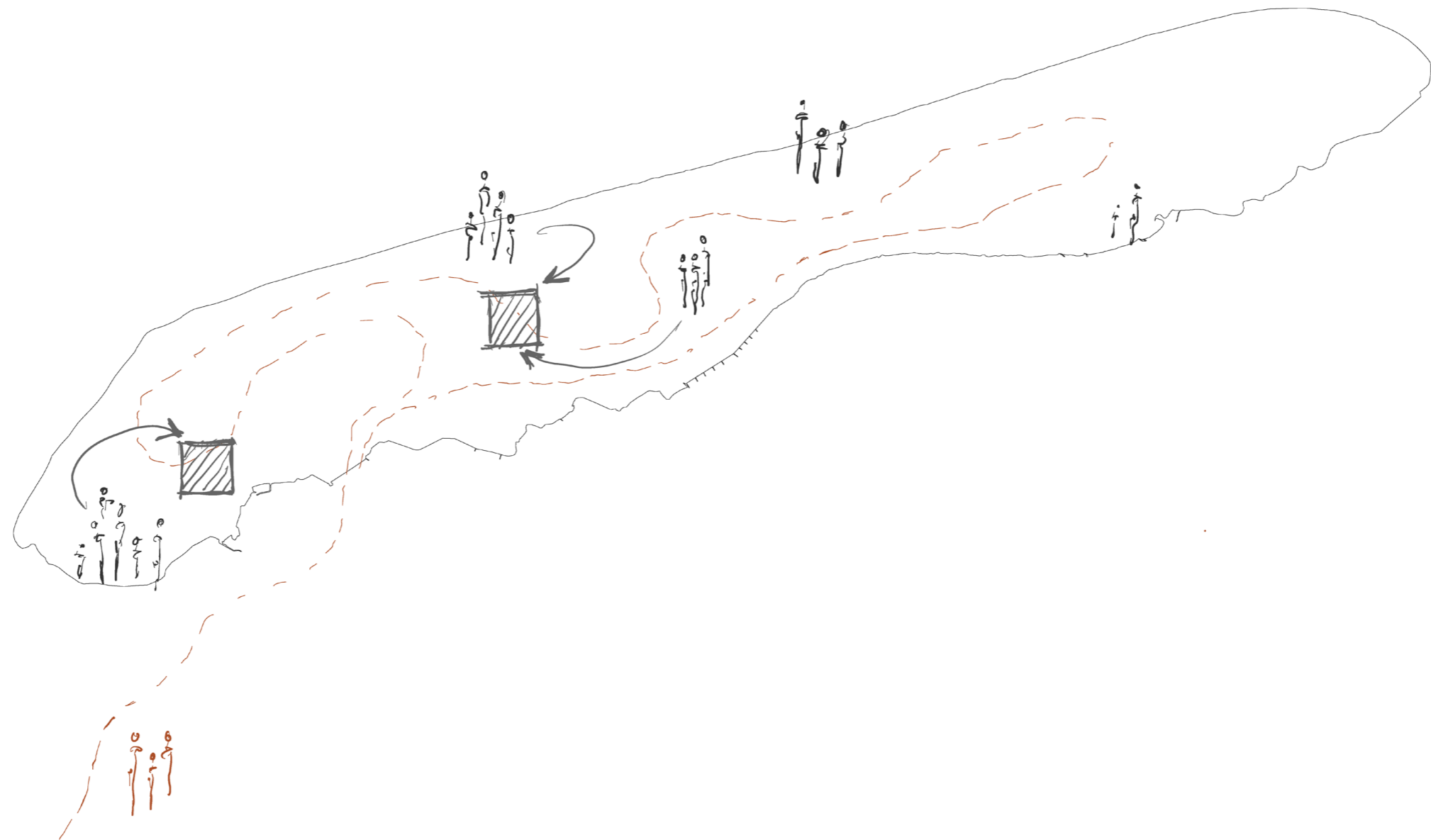
Learning spaces  
Knowledge exchange

*“Exploration can only occur in the presence of familiarity”*

(Hertzberger, 2008)



An island





**THANK YOU**

