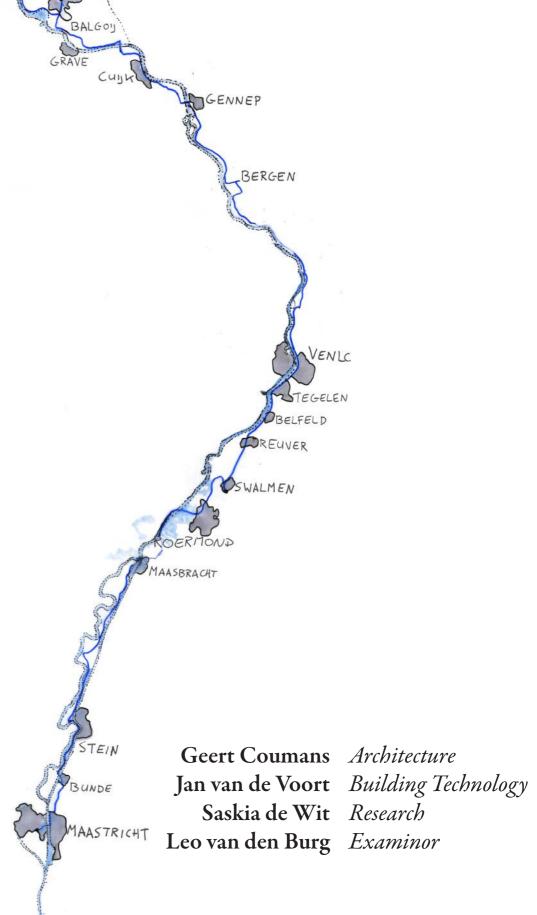


Sense of safety in Dutch river landscapes

P5 presentation Valerie Heesakkers Explore Lab 34 January 19, 2023







10-10-1998









"That enormous force that you see coming, that flushes everything away, it damages more than just homes. It also damages the faith you have in your living environment."

"Die enorme kracht die je dan op je dorp ziet afkomen, die alles wegspoelt, dat beschadigt meer dan alleen de huizen. Dat beschadigt ook het soort vertrouwen dat je in je woonomgeving hebt."

Floris Alkemade (Rijksbouwmeester) - VPRO Zomergasten, July 18 2021

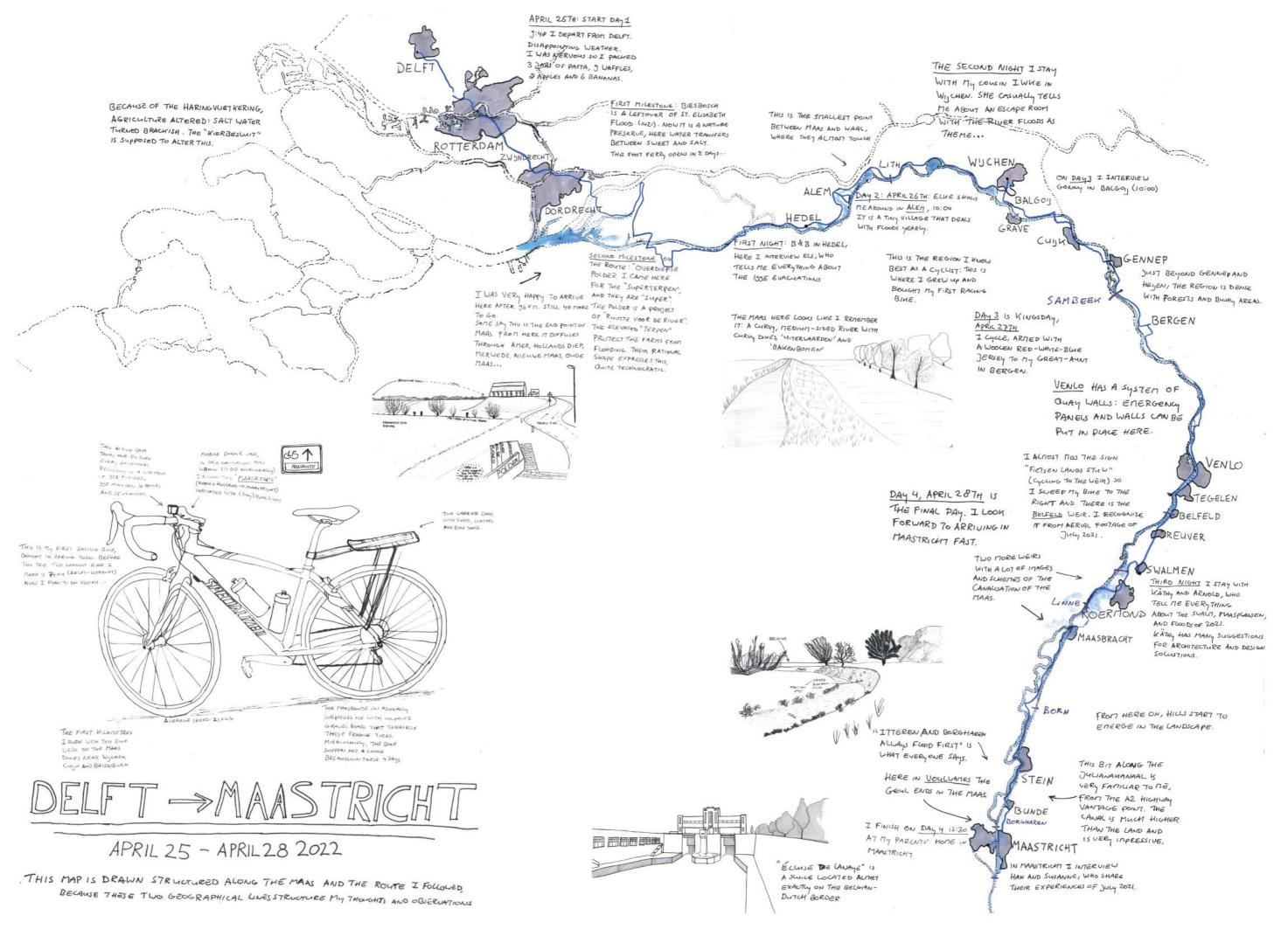
- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion



What is the role of architecture in perceiving a sense of safety in Dutch river landscapes?

- (1) How are the characteristics of the Limburg river landscape perceived?
- (2) How do people gain a sense of safety from the landscape?
- (3) What is the role of architecture in establishing a sense of safety?





(1) How are the characteristics of the Limburg river landscape perceived?







"Water is never the same, and a dike always swings. There's always a view...and wind." - Els (Hedel)

"The Maas has everywhere the same **trees**. They are a kind of **benchmarks** along the Maas." - Gonny (Balgoij)

"The Maasplassen. And the Swalm, the Maas and the Roer, is also very close. But the landscape is defined by the Maasplassen. That is specific for this area. It is a big recreational area now. And it all exists because of **gravel** extraction" - Käthy (Swalmen)

"I don't find it very typical here. Here it is quite canalised. I particularly like the floodplains in river landscape. But here it is a river that is **firmly being kept in place**." - Susanne (Maastricht)

"So this is a beautiful area, and before last summer **I have never worried or thought that it might be dangerous** here." - Henk (Eijsden)

(2) How do people gain a sense of safety from the landscape?





Communication with government

Community & solidarity

Personal safety & material safety

Role of the government vs. the role of self-sufficiency

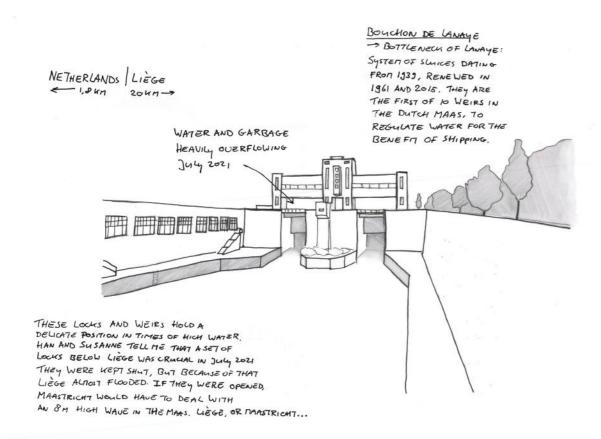
"At some point, I called the crisis centre, someone I know worked there and he said "Get out of there, because it might be coming to the first floor."" - Henk

"I'm not afraid something will happen to us. But it is mainly the investment in your house, the economical damage, you won't get anything back." - Henk

"First all the tables and chairs disappeared and I thought those bushes will stay, but they were all gone at some point. And then you'd see caravans disappearing." - Susanne

"I do think it was scary, because you knew that there were people in your area that were struck by the floods. Everyone feels very connected in those times." - Käthy

(3) What is the role of architecture in establishing a sense of safety?



River literacy

- Rivers are seen as entities defined by a line.
- ► The line separates land from water.
- A flood is a violation of that line.
- ► Water is everywhere.
- ▶ It is in moments in its different forms: rain, water, vapour, ice.
- Water is defined by its form in time, rather than by its location in space.

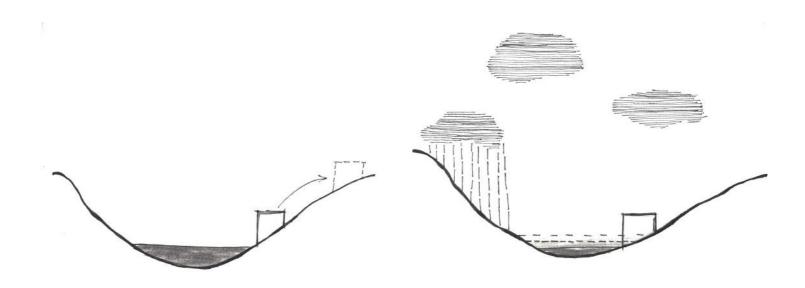
Power balance

Dominance

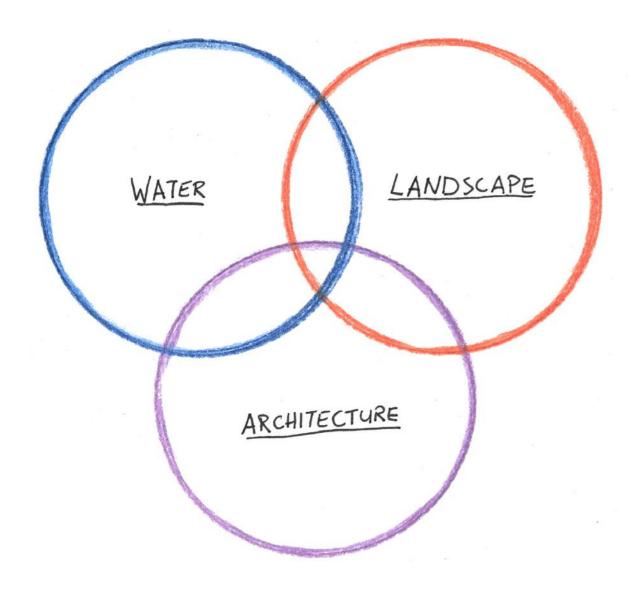
- ► One dominates the other with its forces.
- ► Dutch in dominance: management strategy.
- Maas in dominance: floods.
- Climate change.

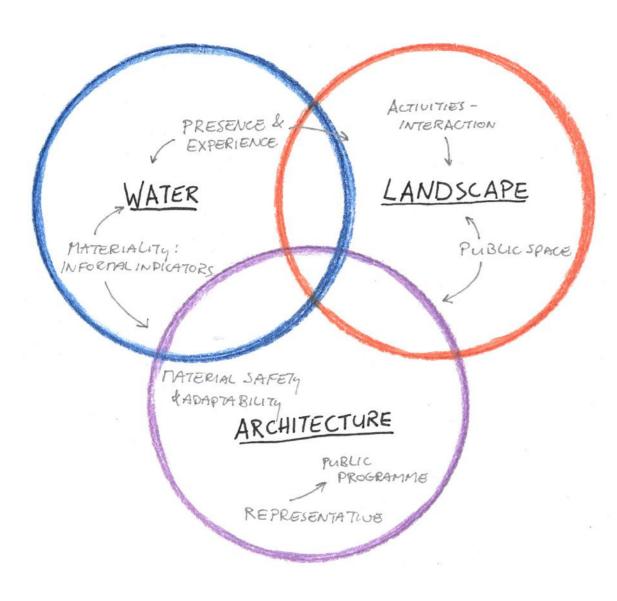
Spatiality

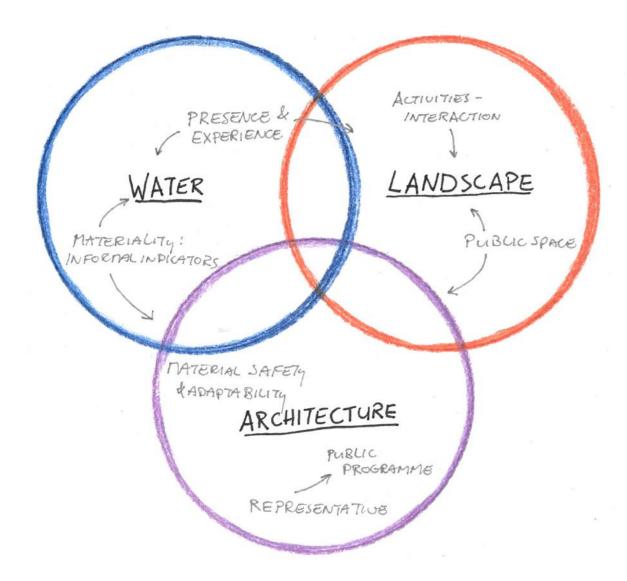
- · Claims on the same territory.
- ► River: flow, erosion, deposition.



- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion



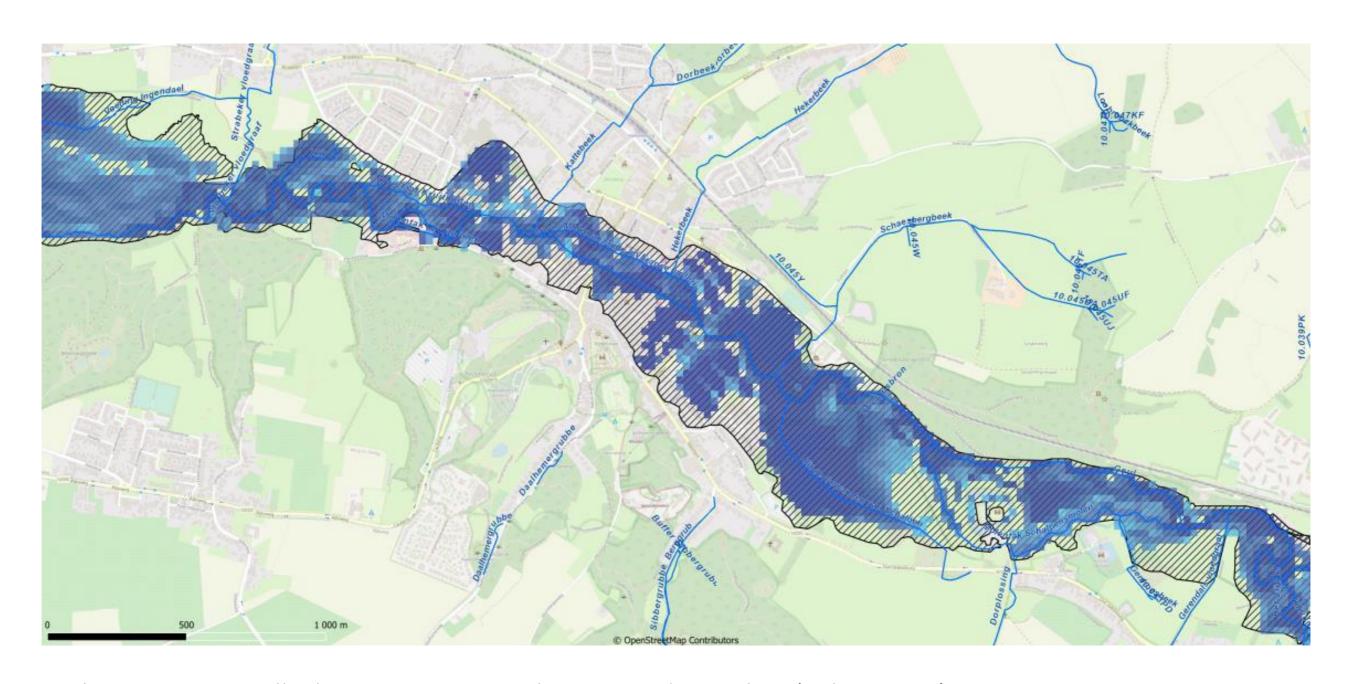




Design goals

- 1. Stimulate an active relationship with the landscape.
- 2. Indicate water presence, water dynamics and flood dangers.
- 3. Decrease distance government-residents.
- 4. Provide safety from flood dangers.



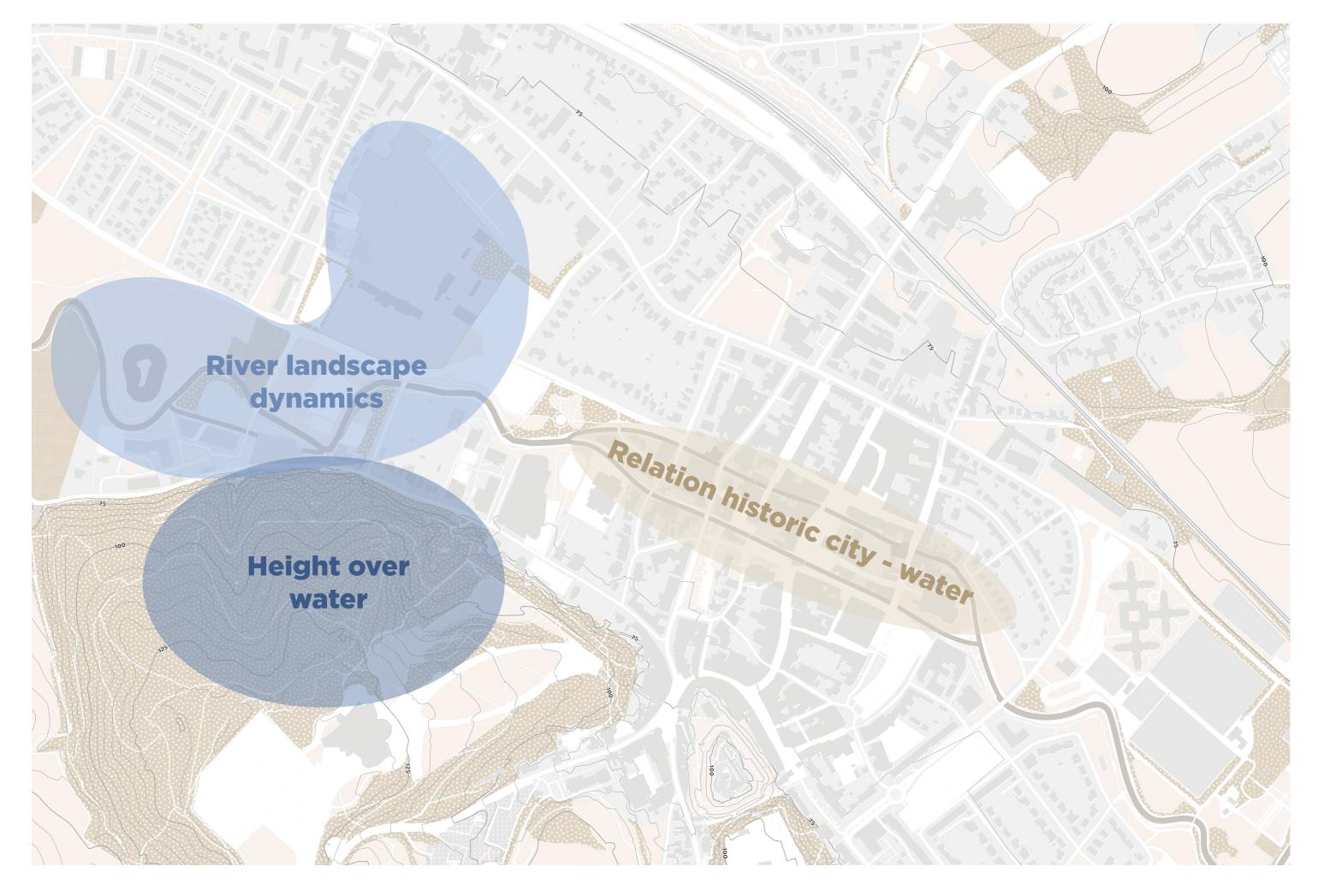


 $Analyse\ overstroming\ Valkenburg\ -\ Watersysteeme valuatie\ Waterschap\ Limburg\ (Deltares,\ 2022)$

- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion



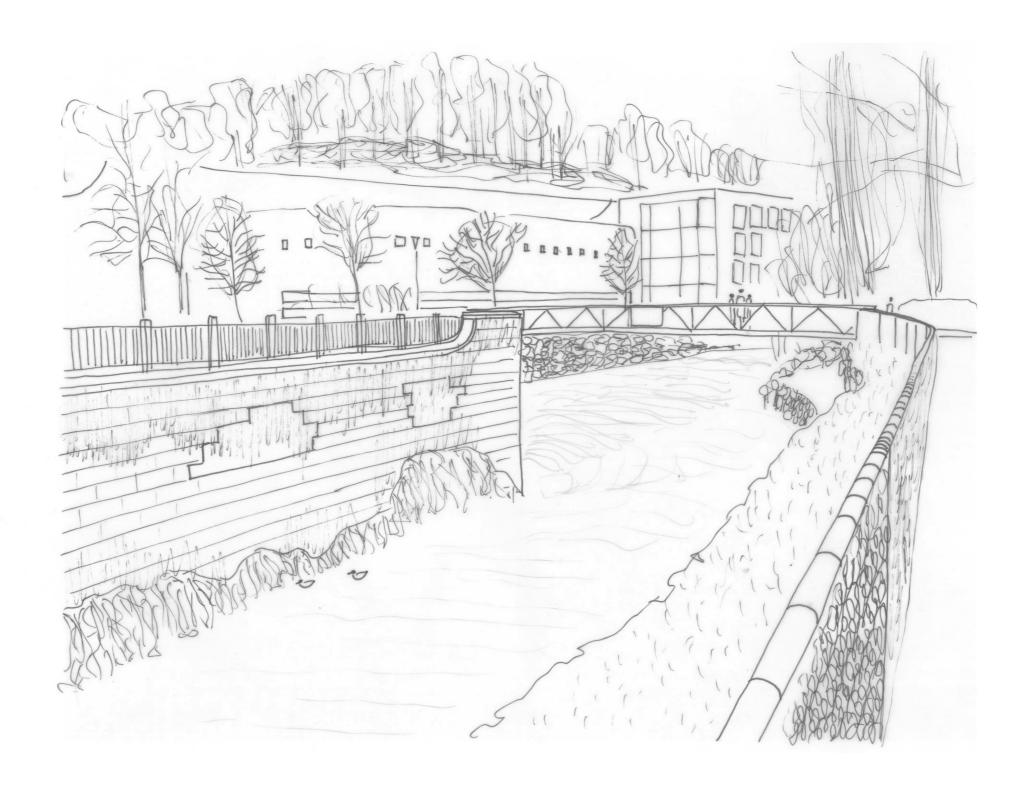




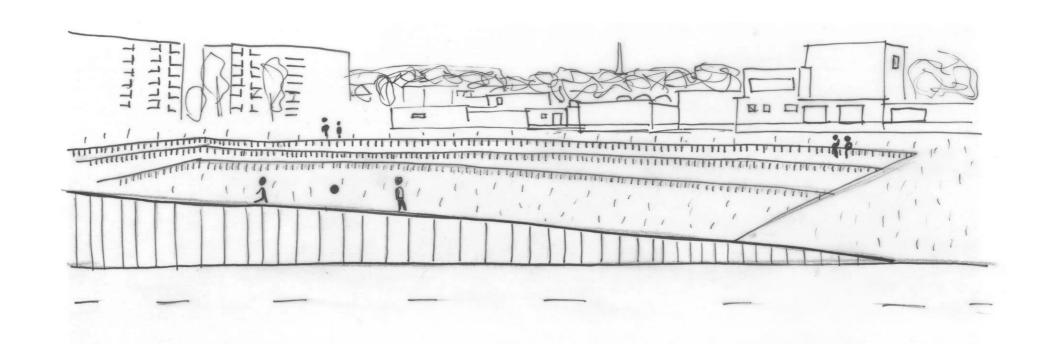




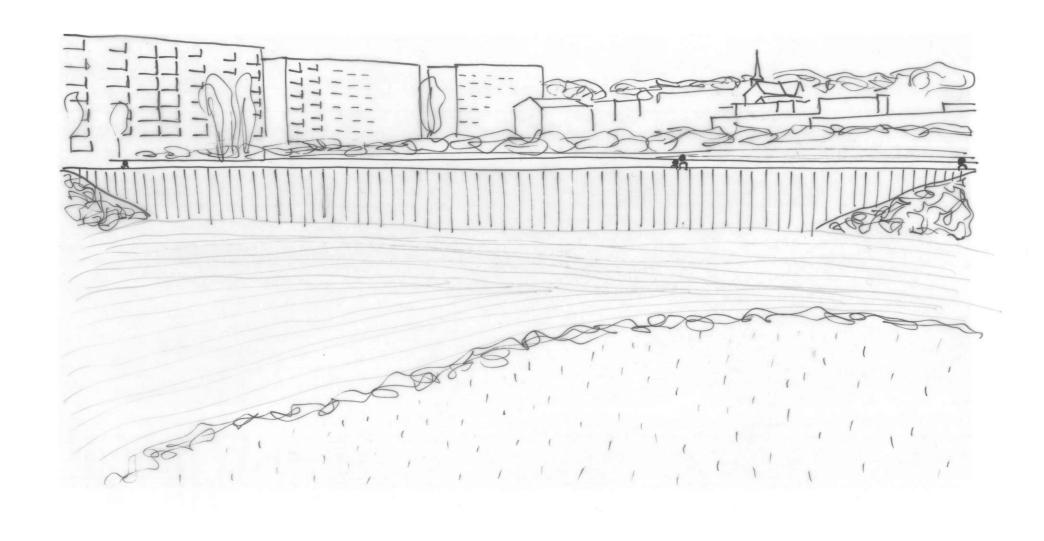


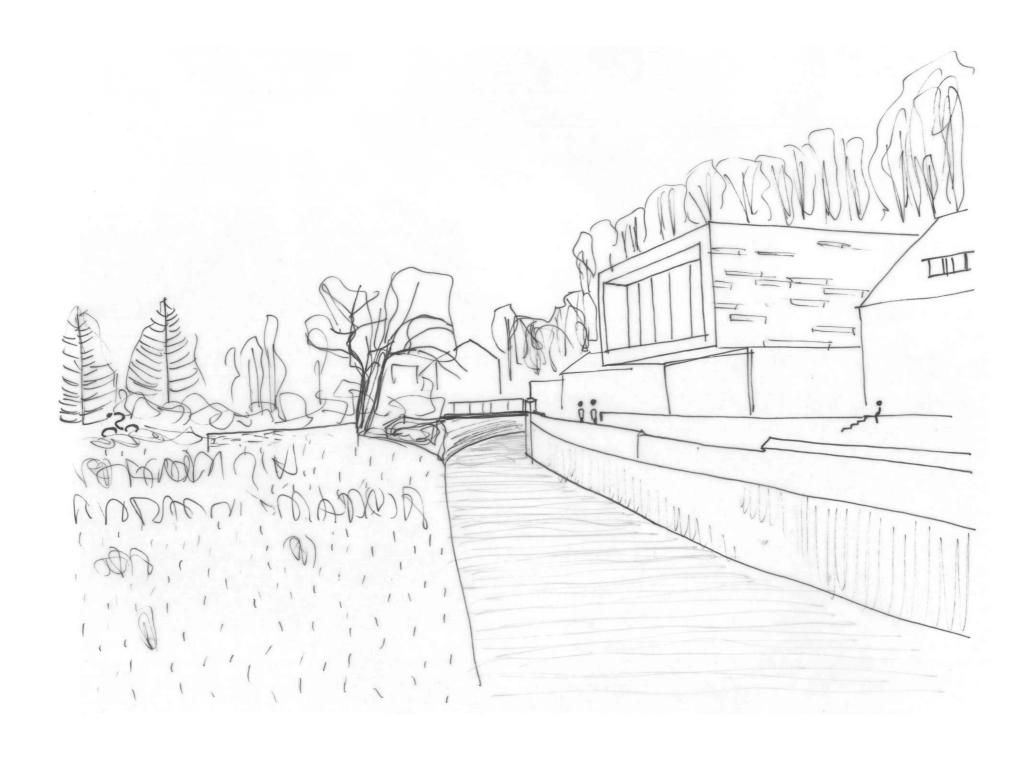


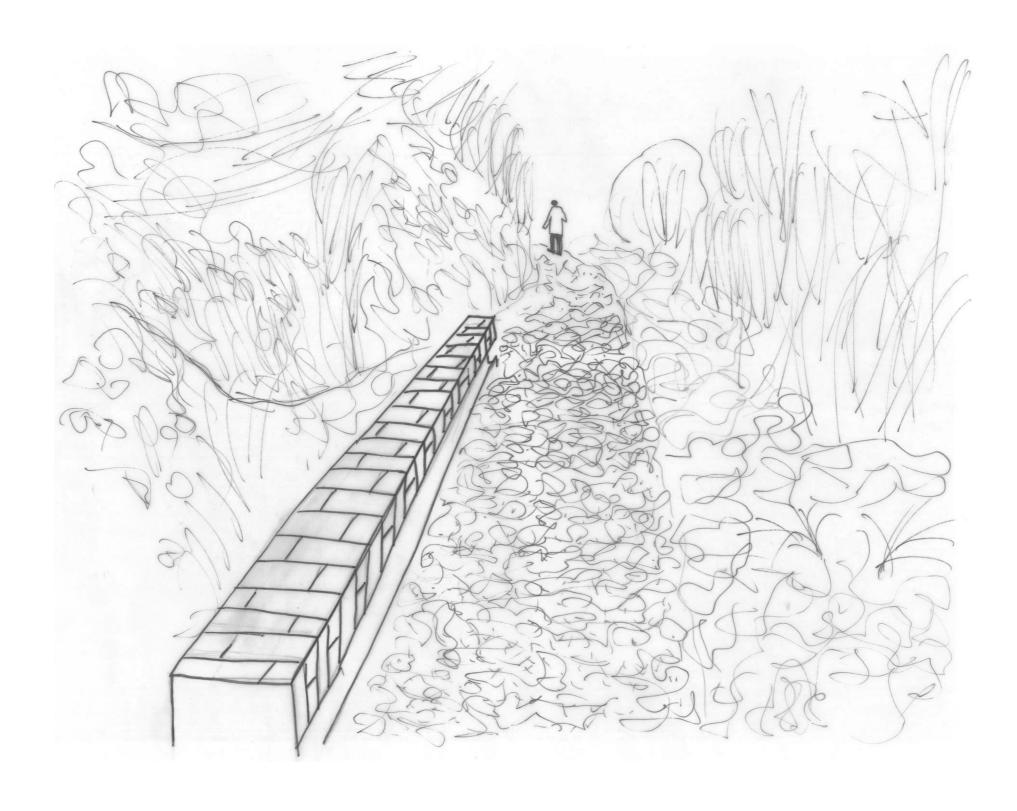














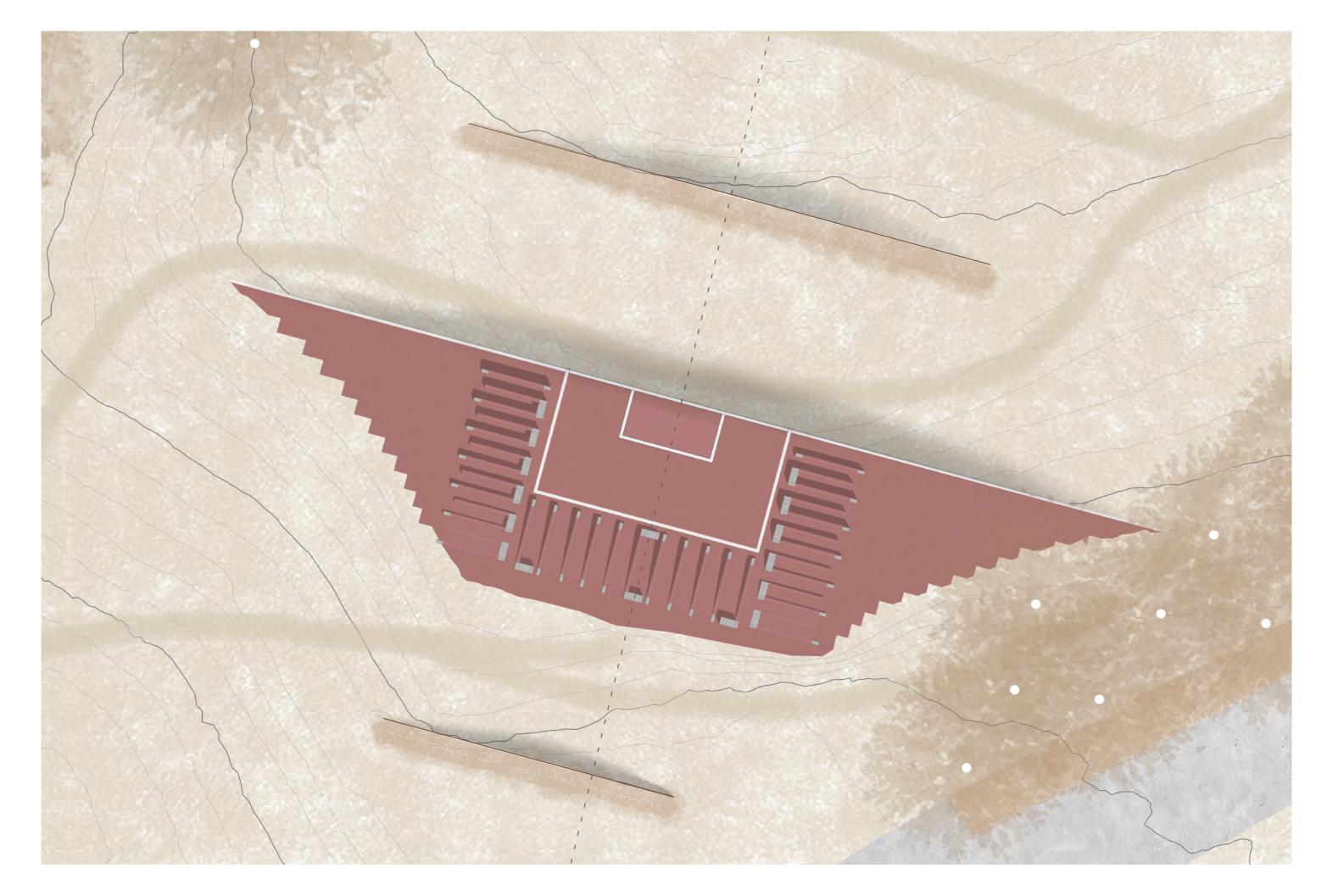


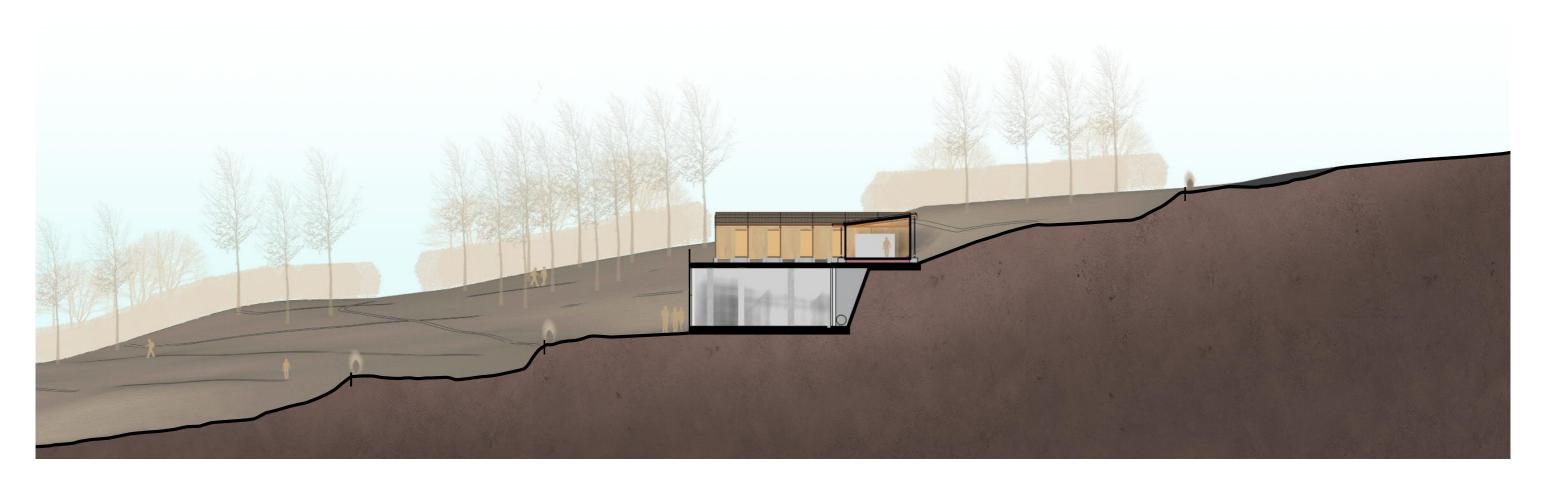


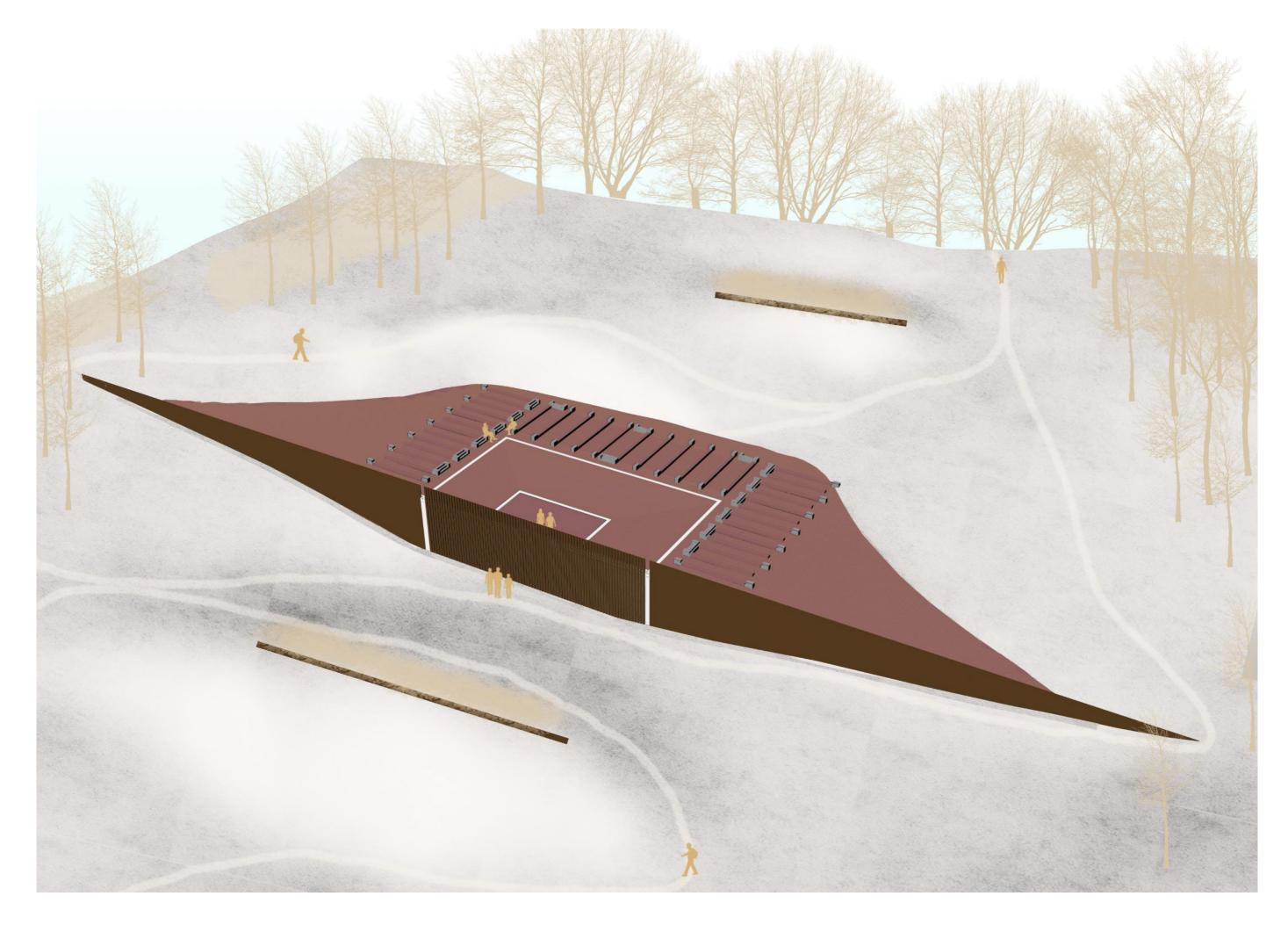


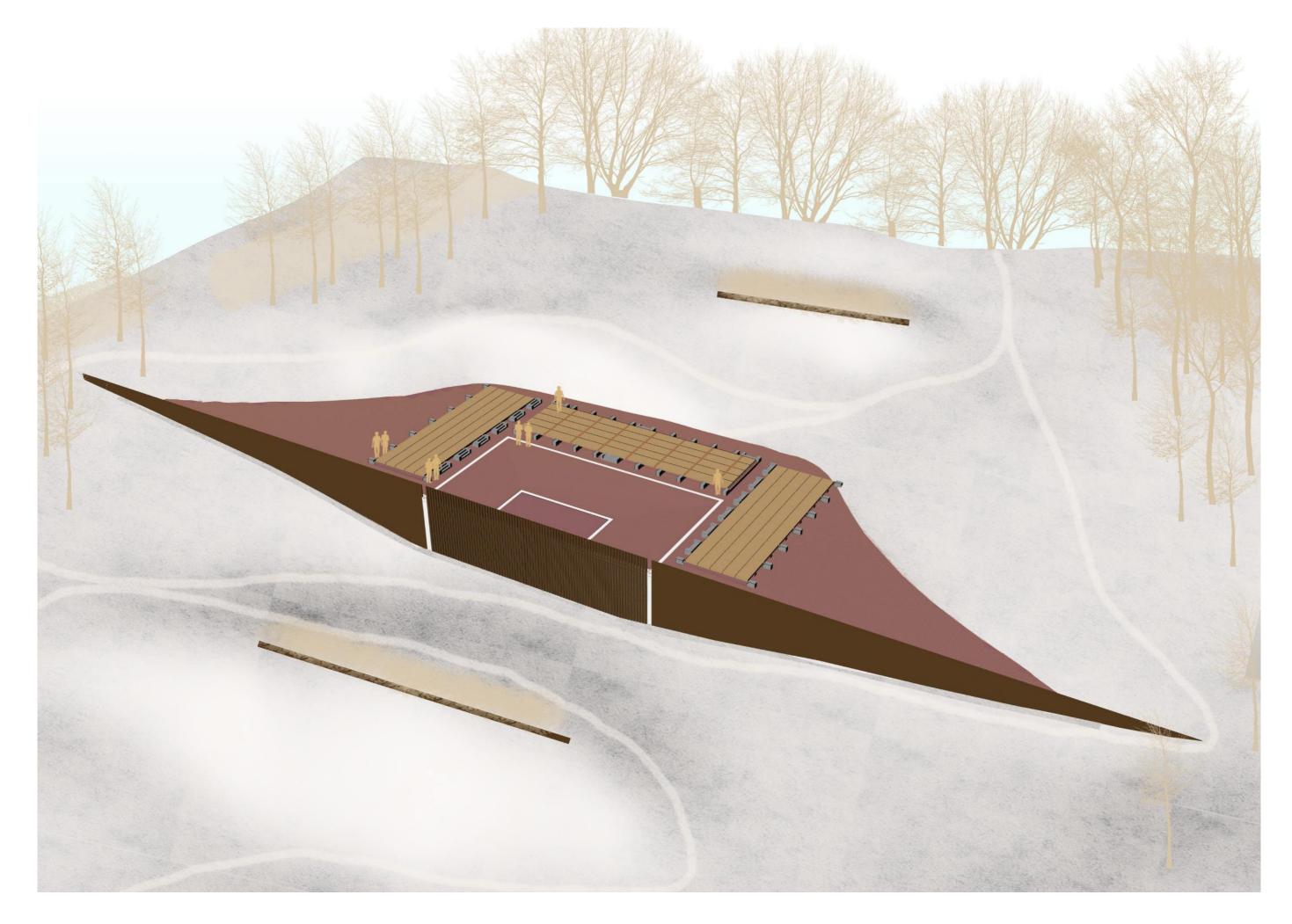
- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion

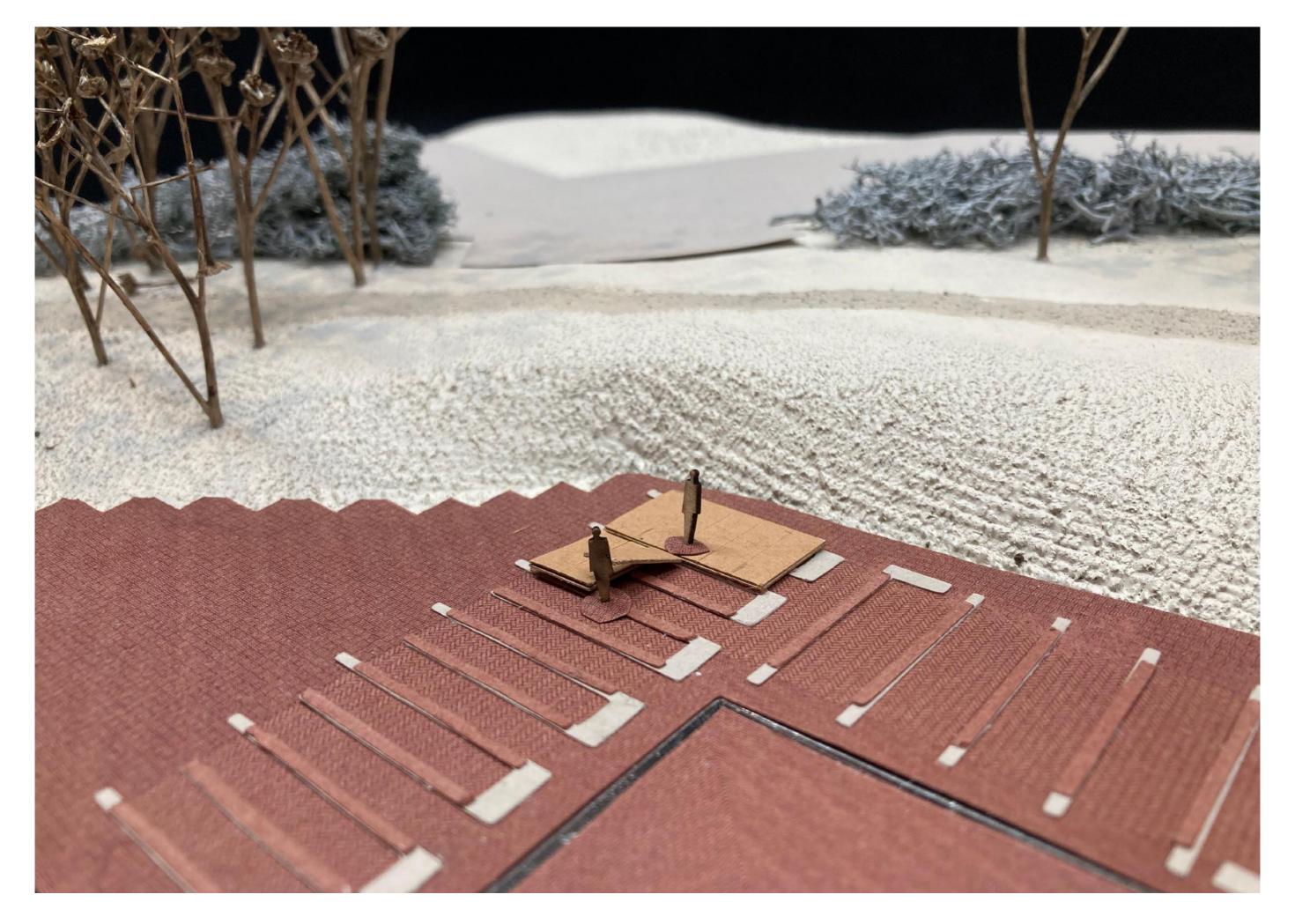


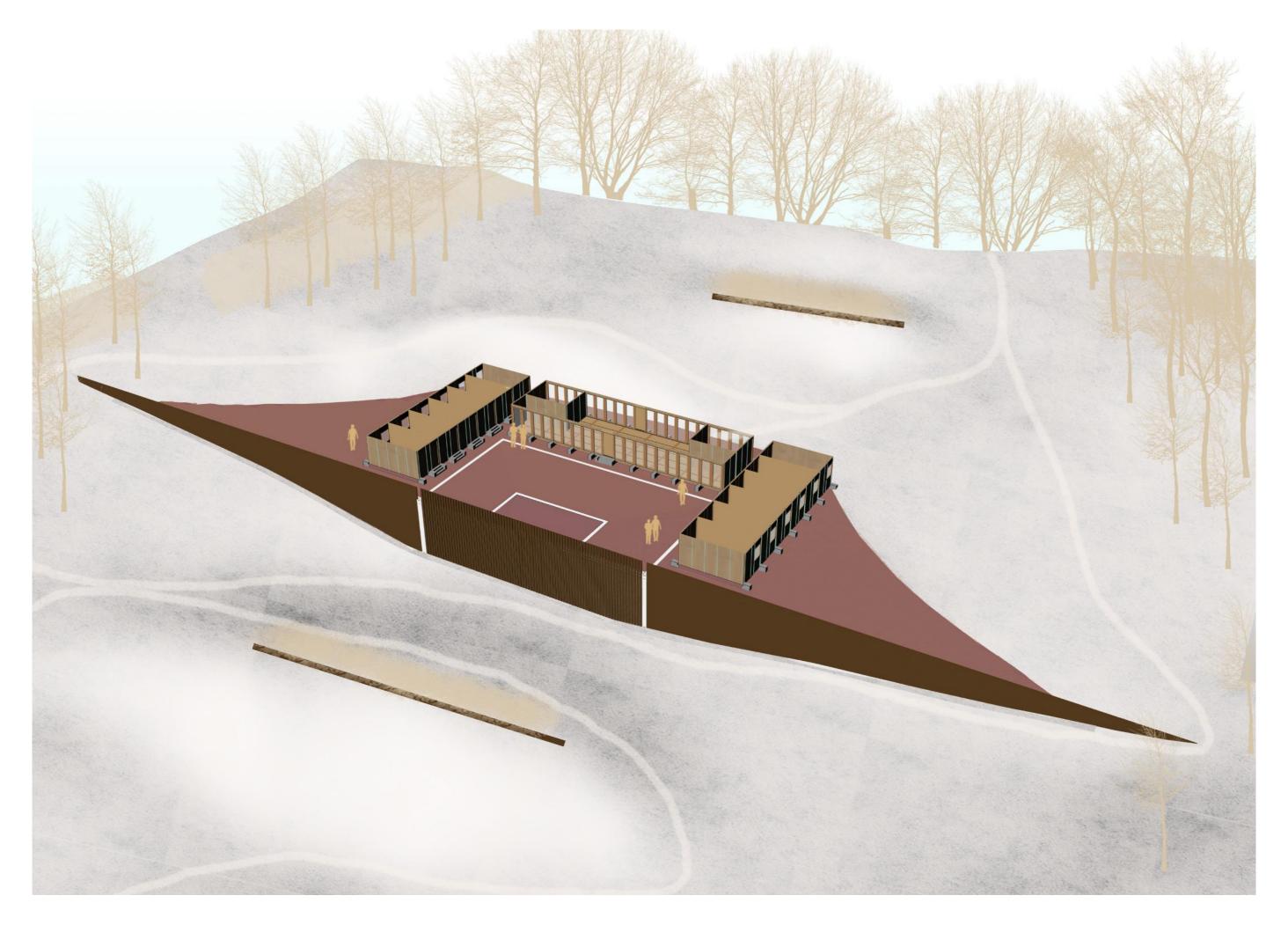




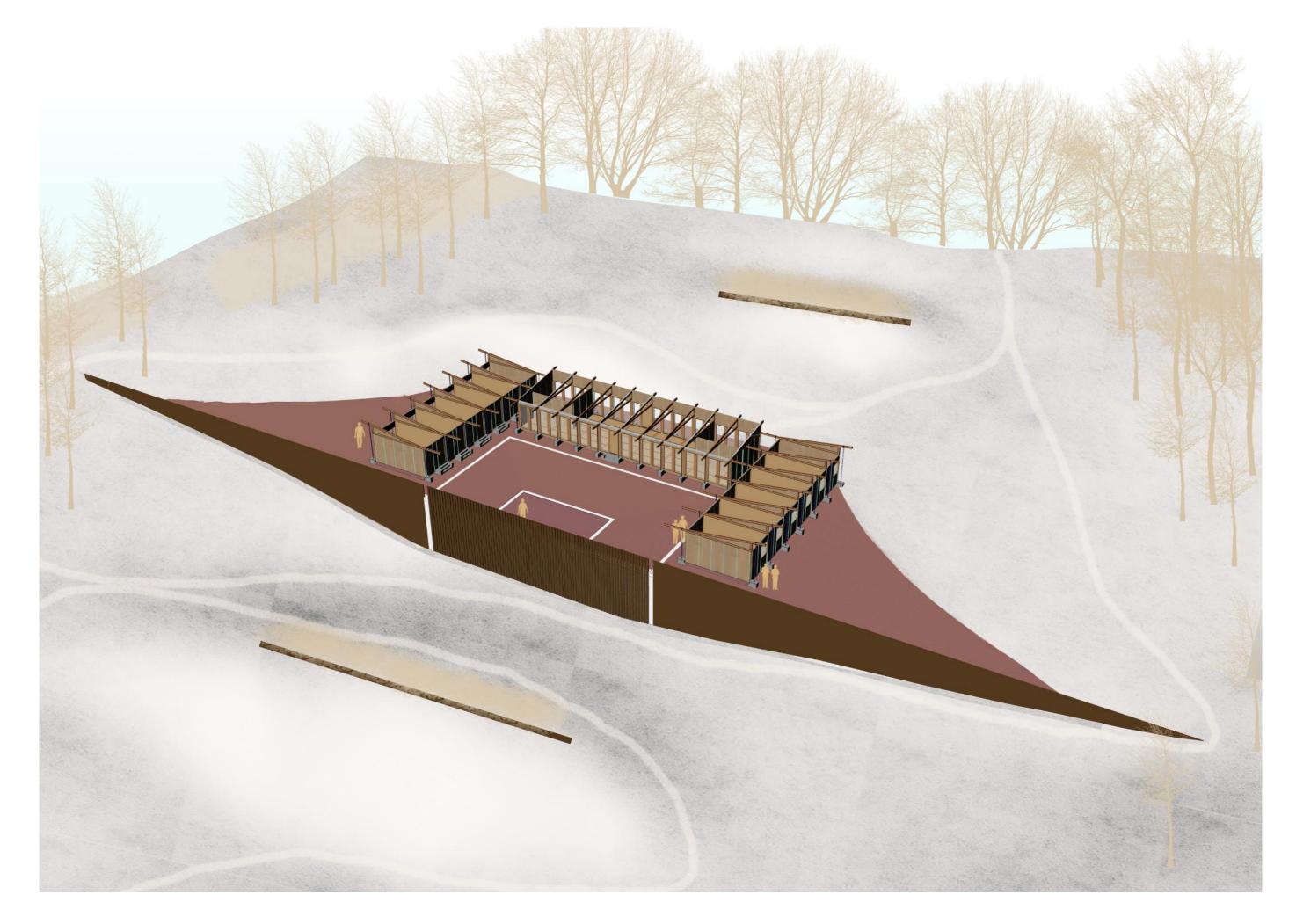




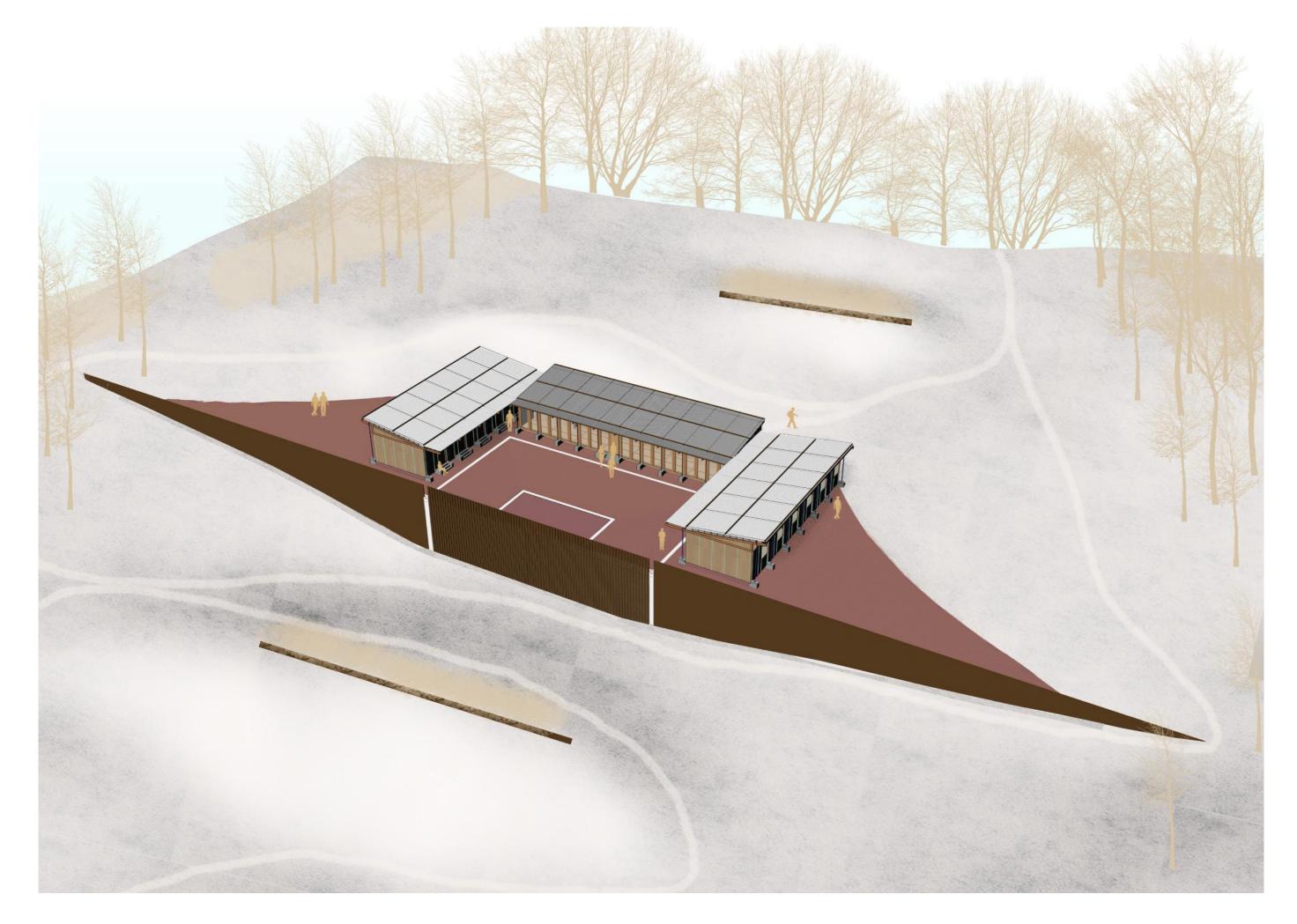


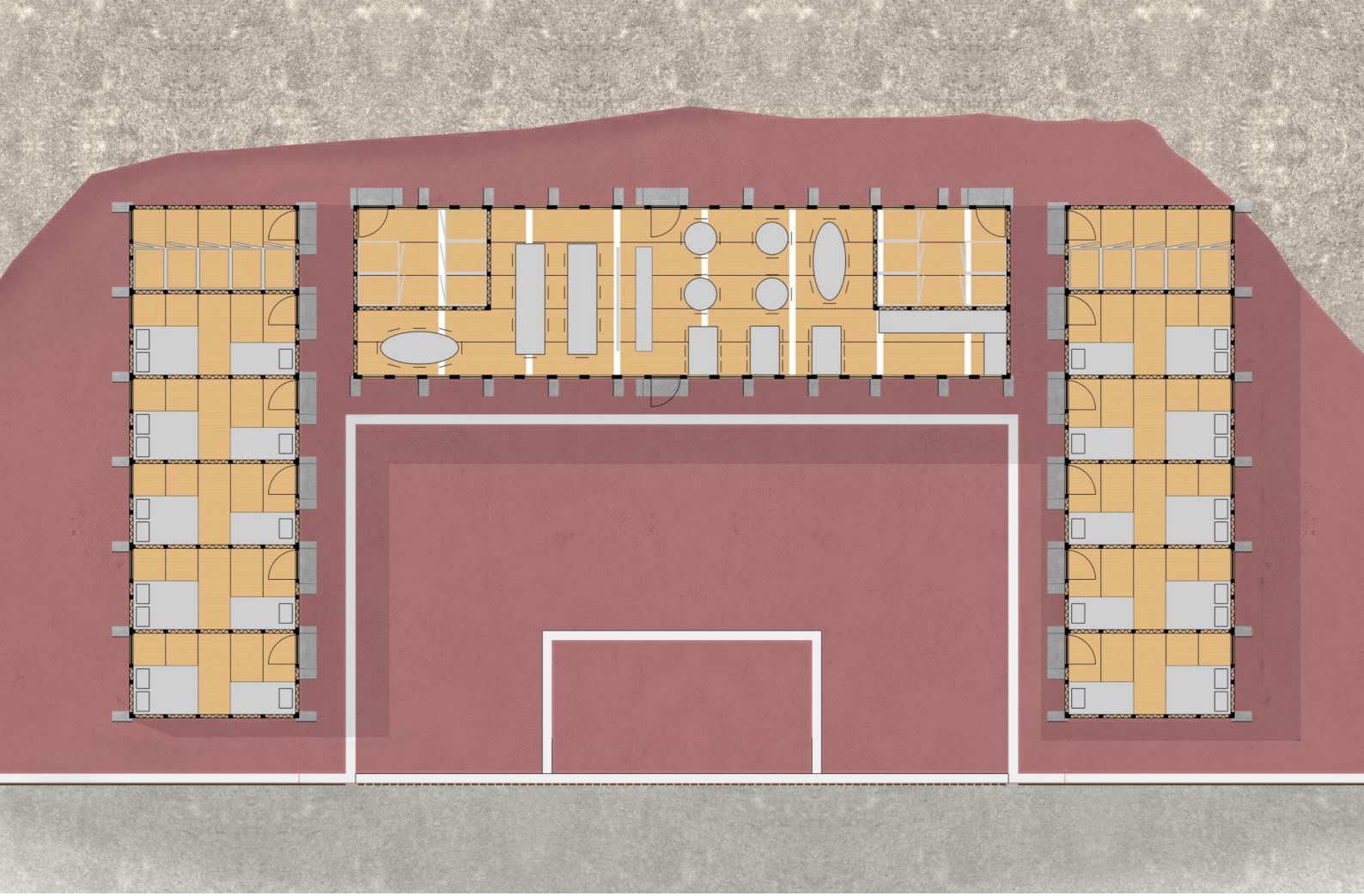


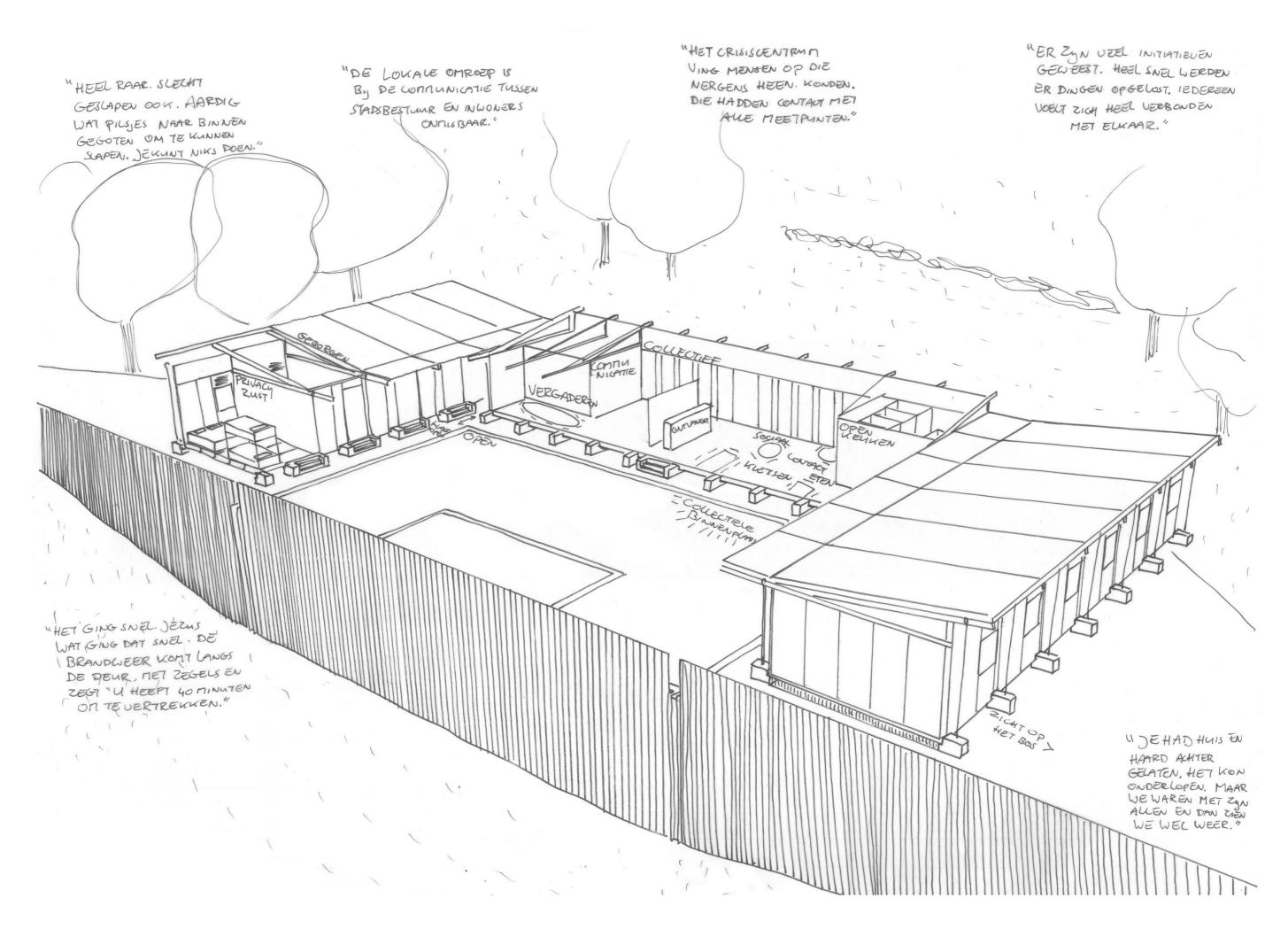


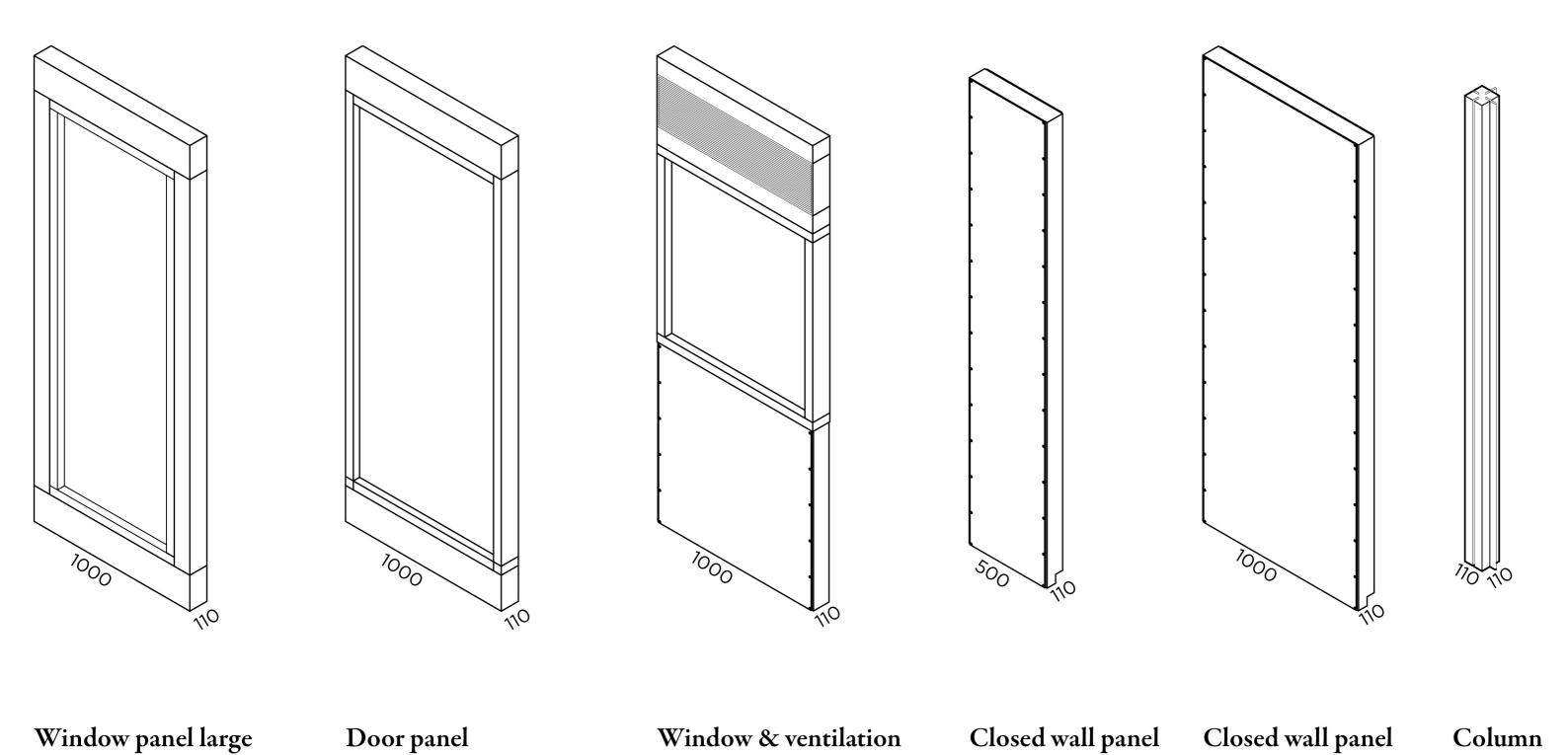








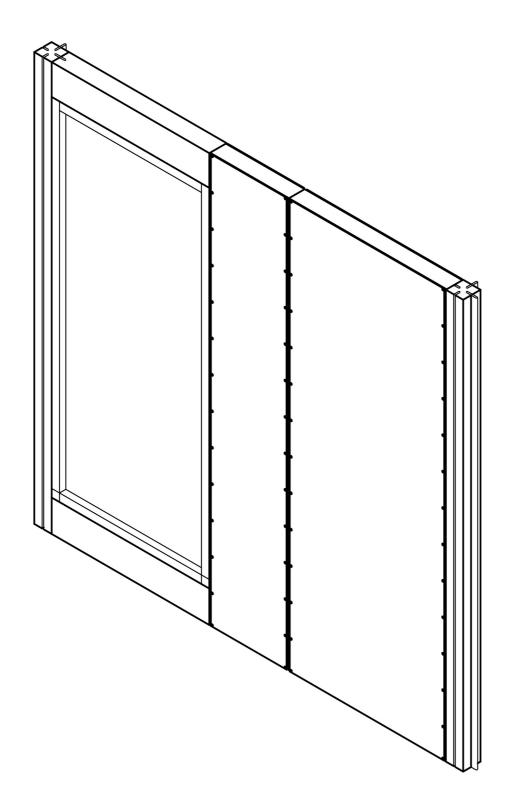




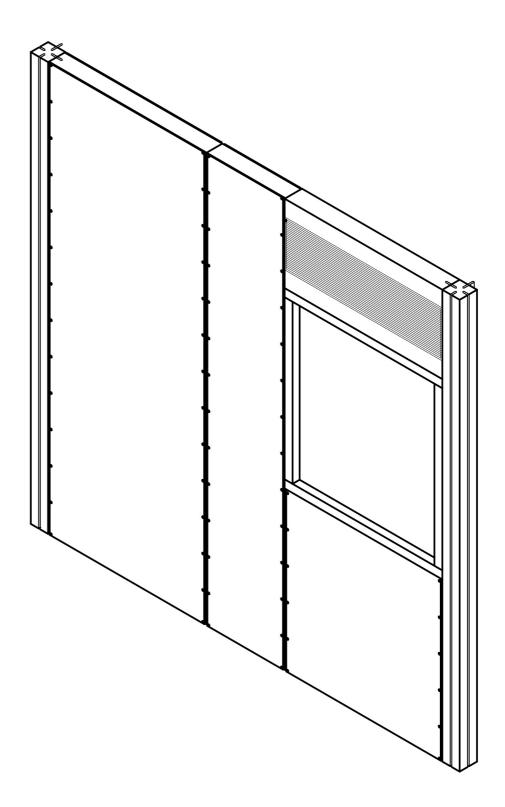
the Shelter Sandwich panels 52/101

small

large

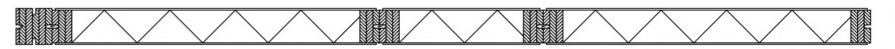


Front facade shelter unit



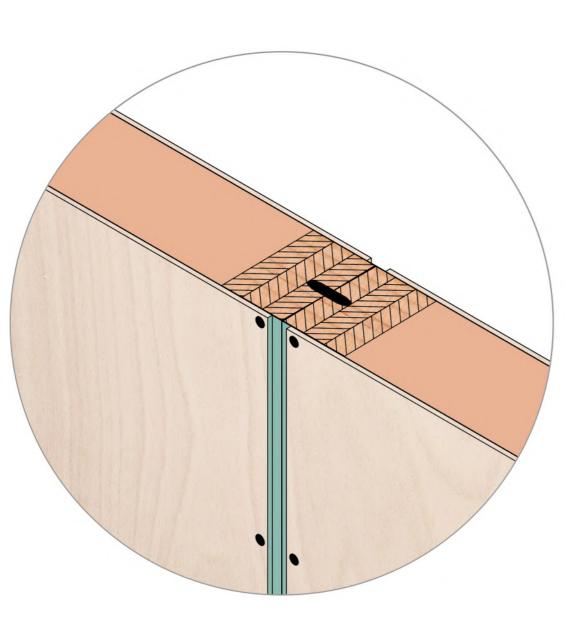
Back facade shelter unit

Facade horizontal section



Facade front view

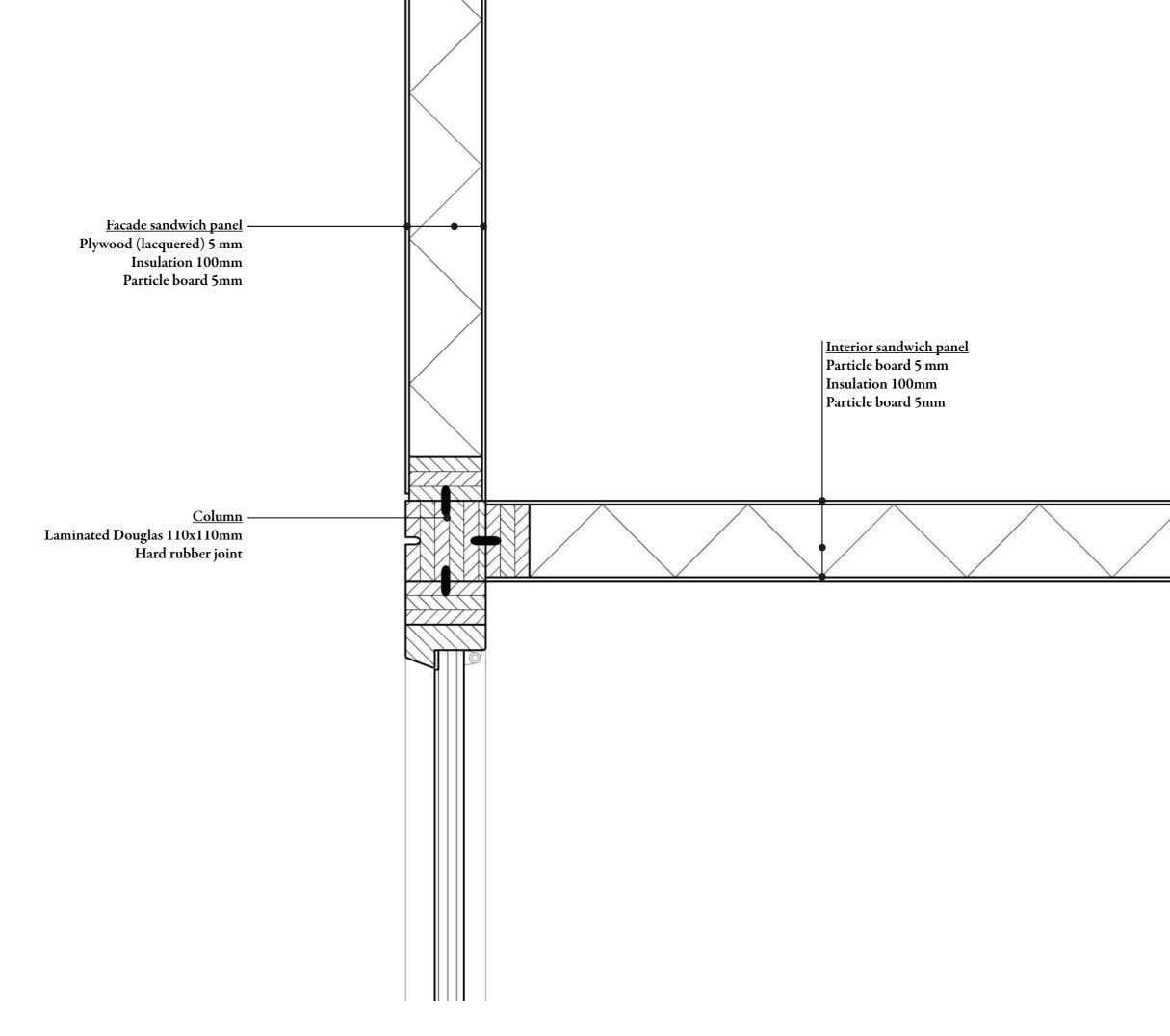


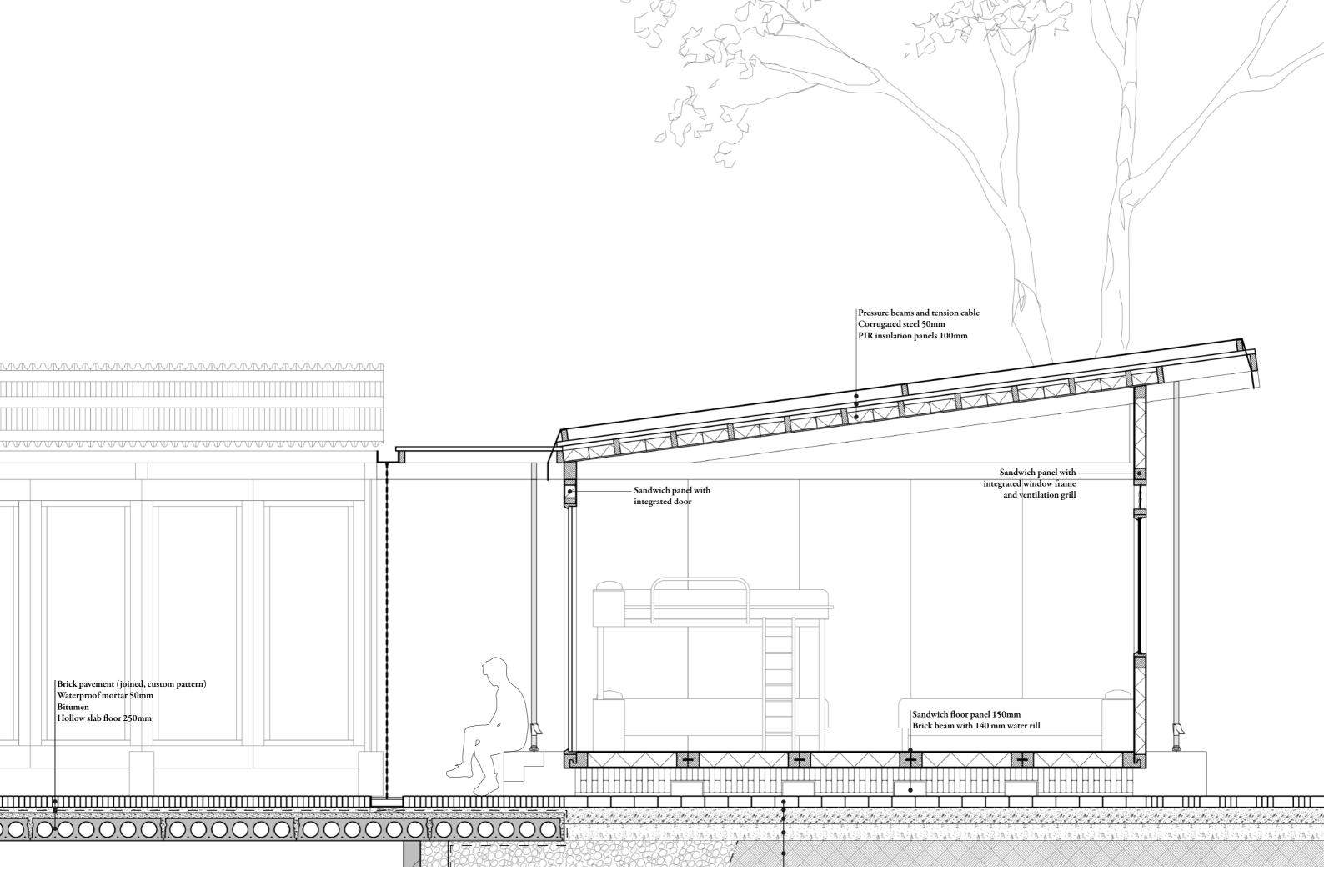


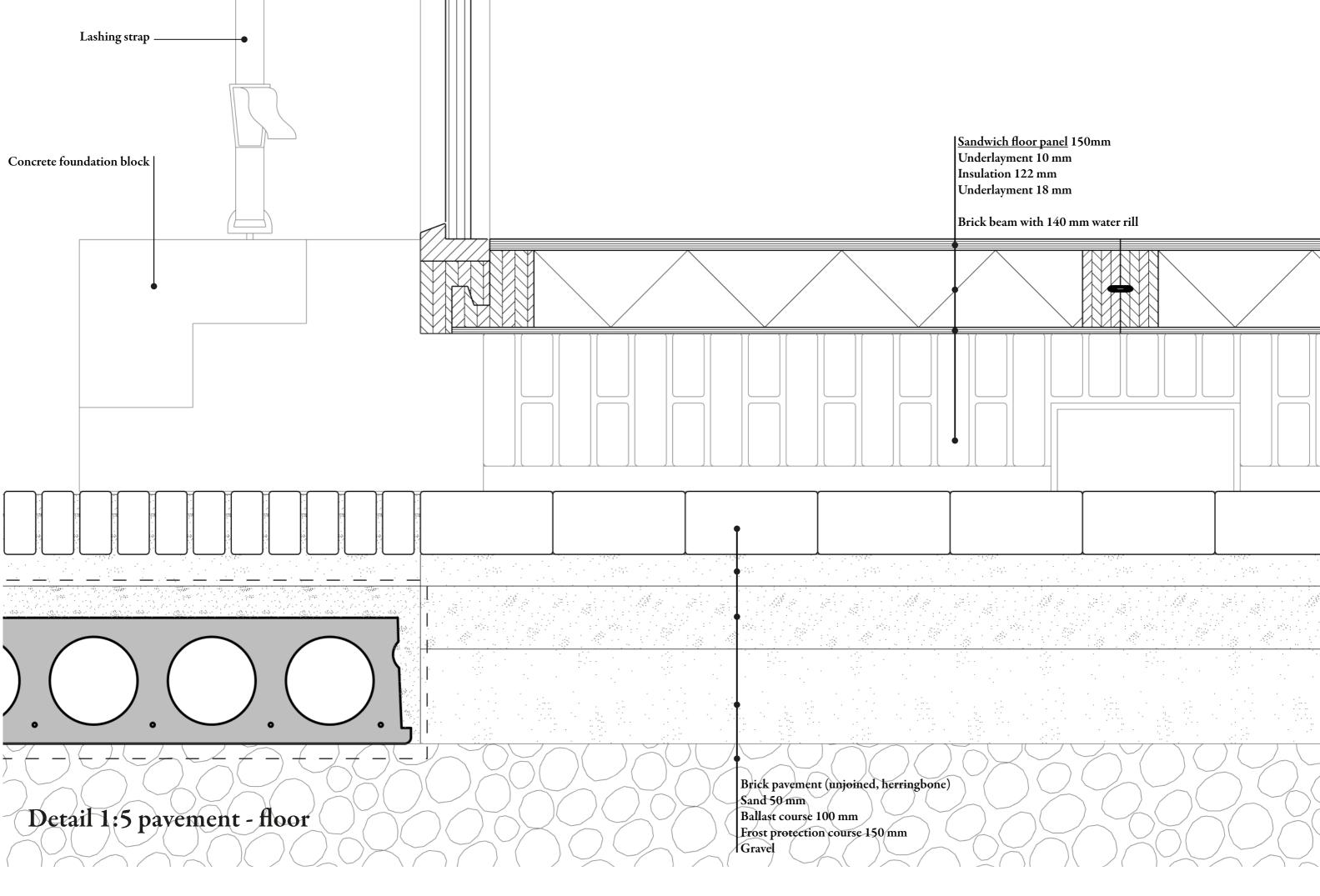
Detail flute

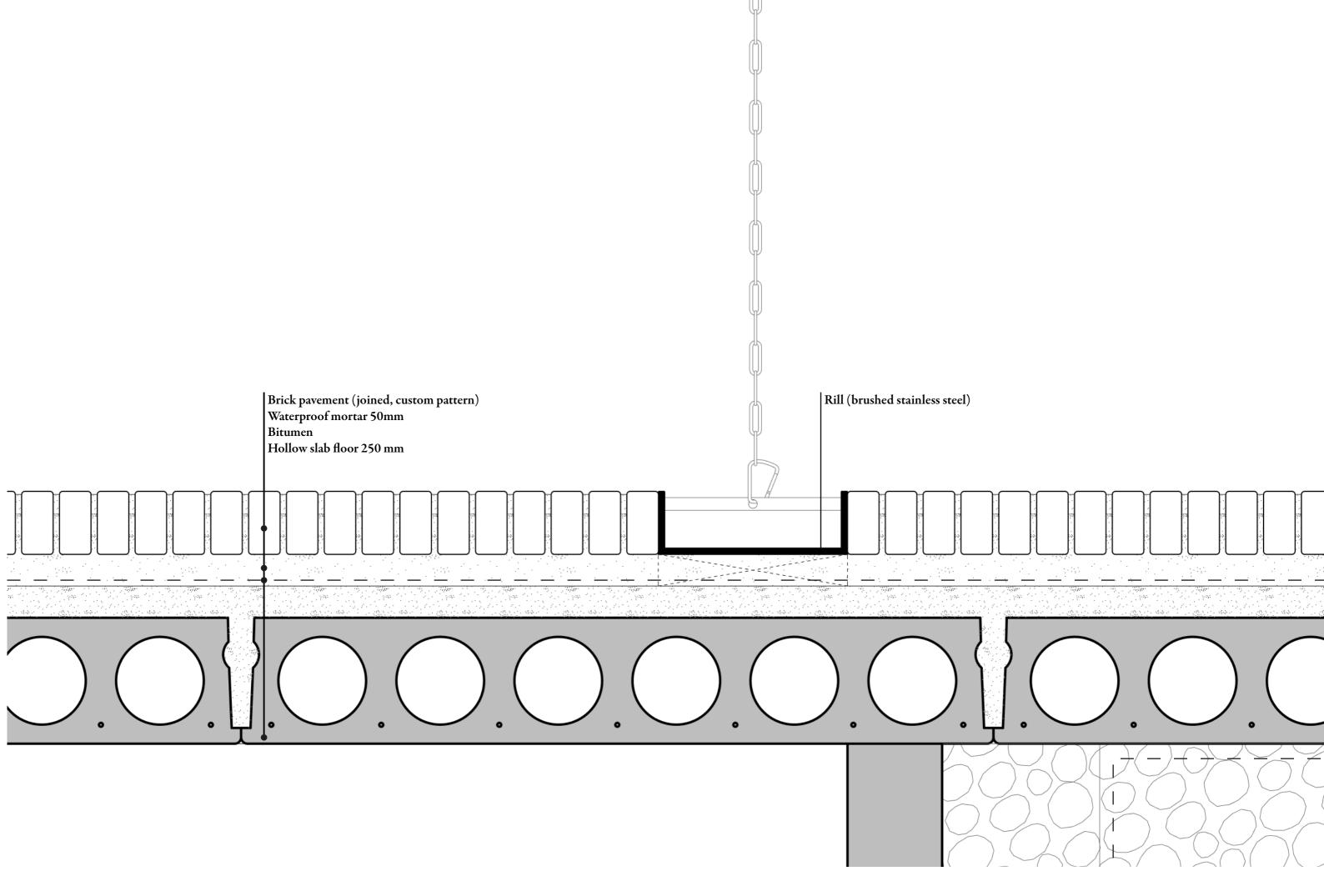


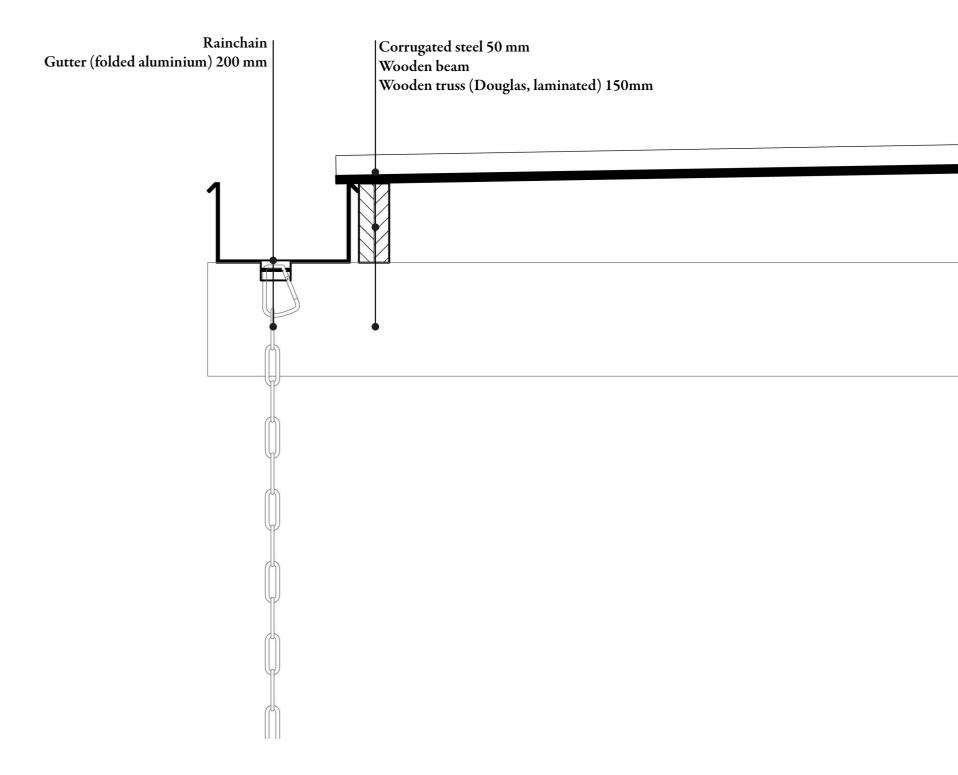


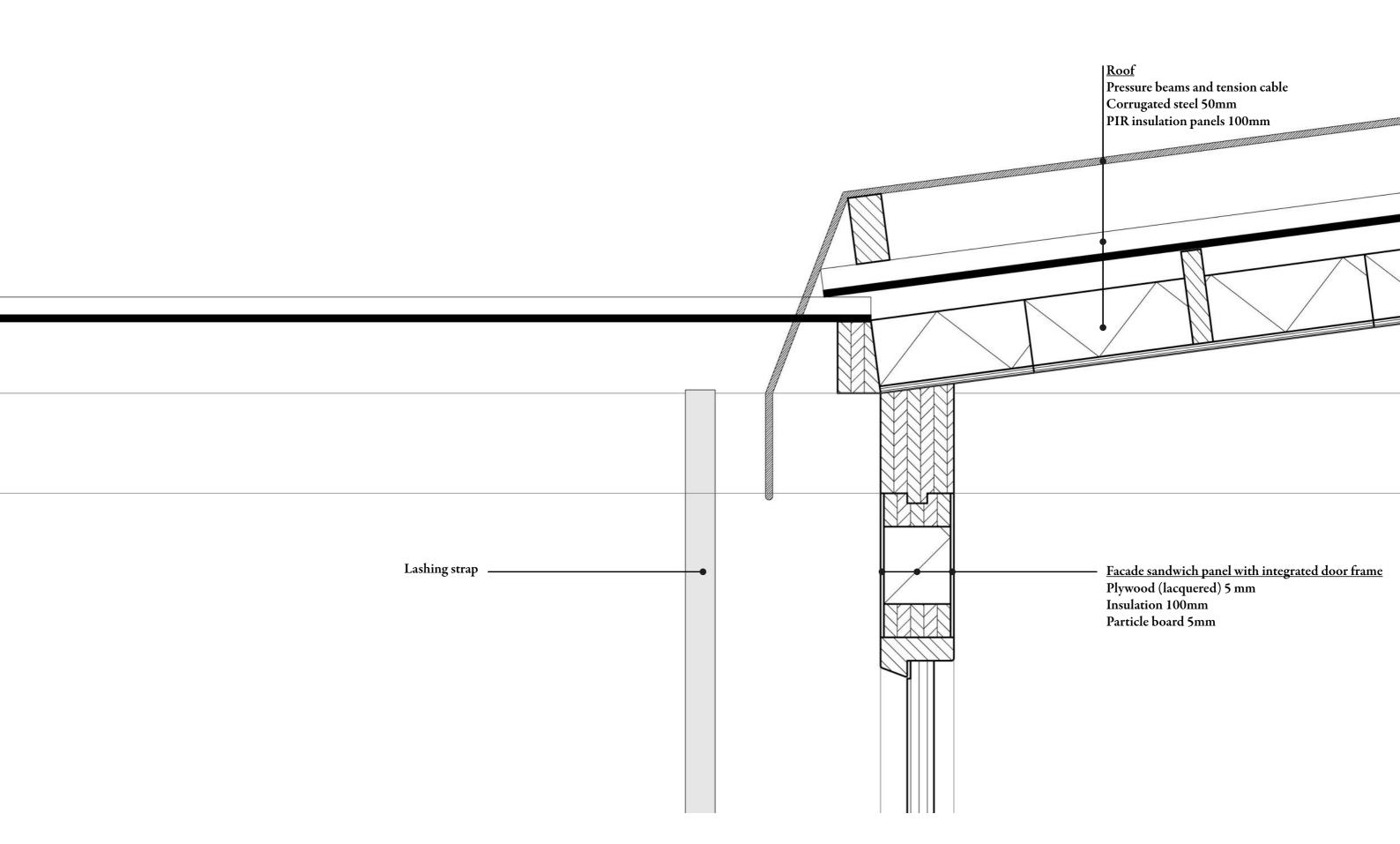


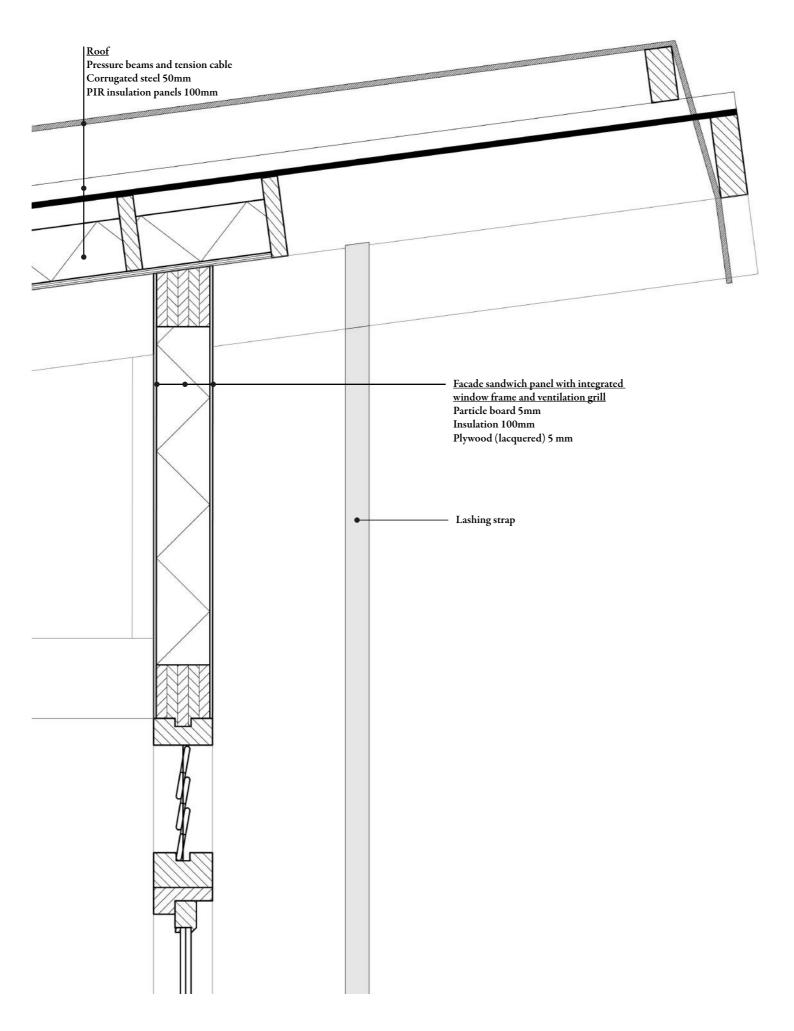


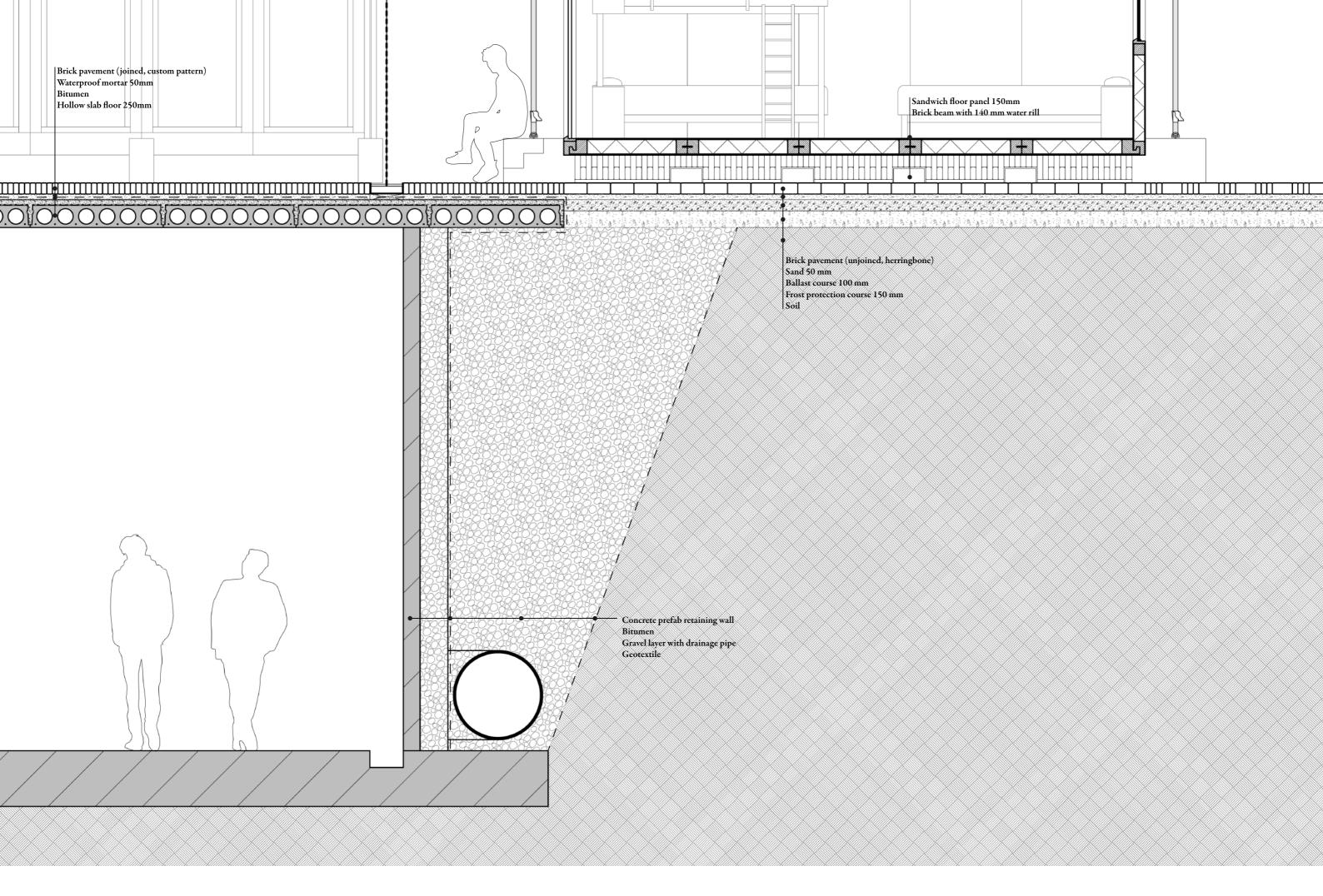




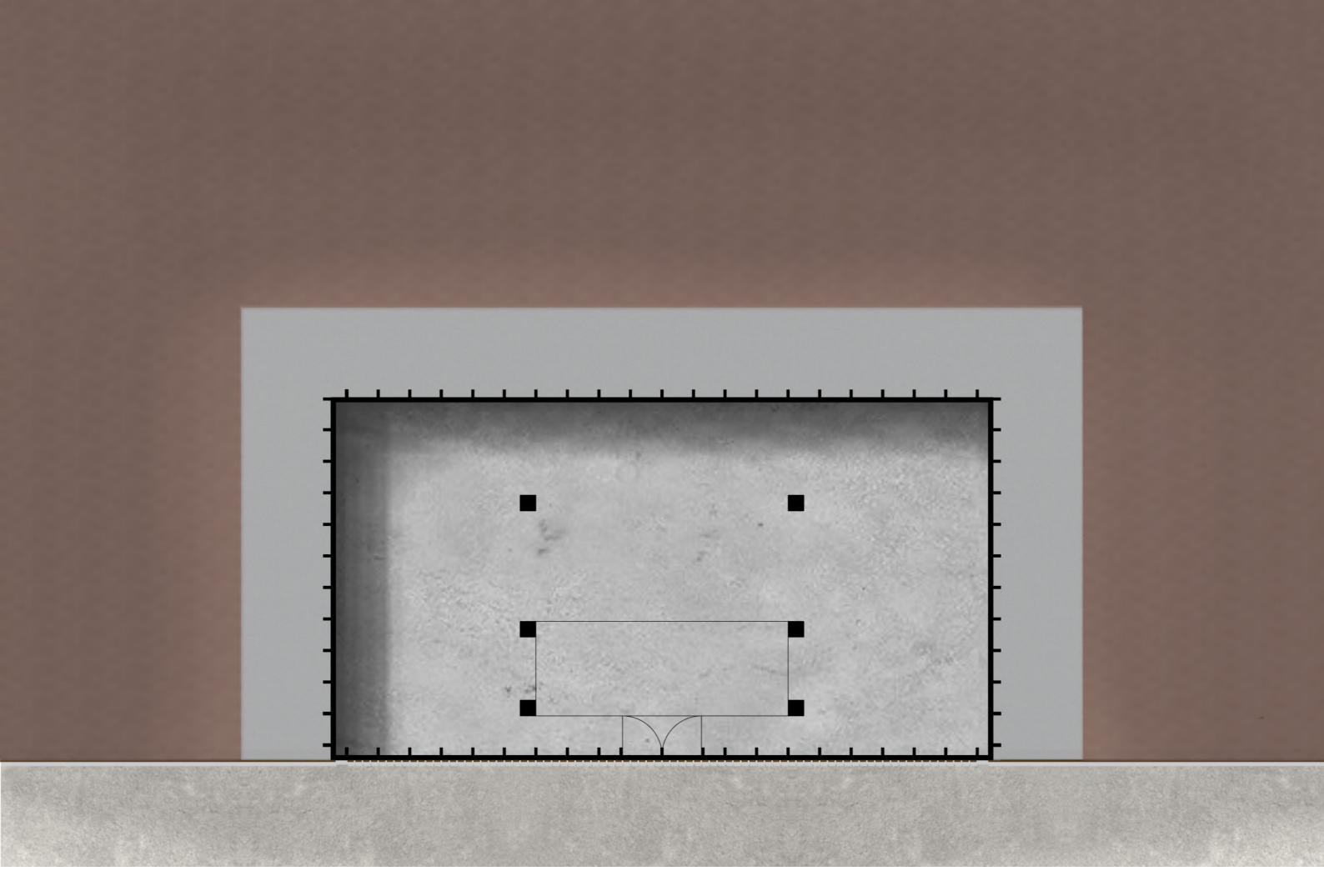


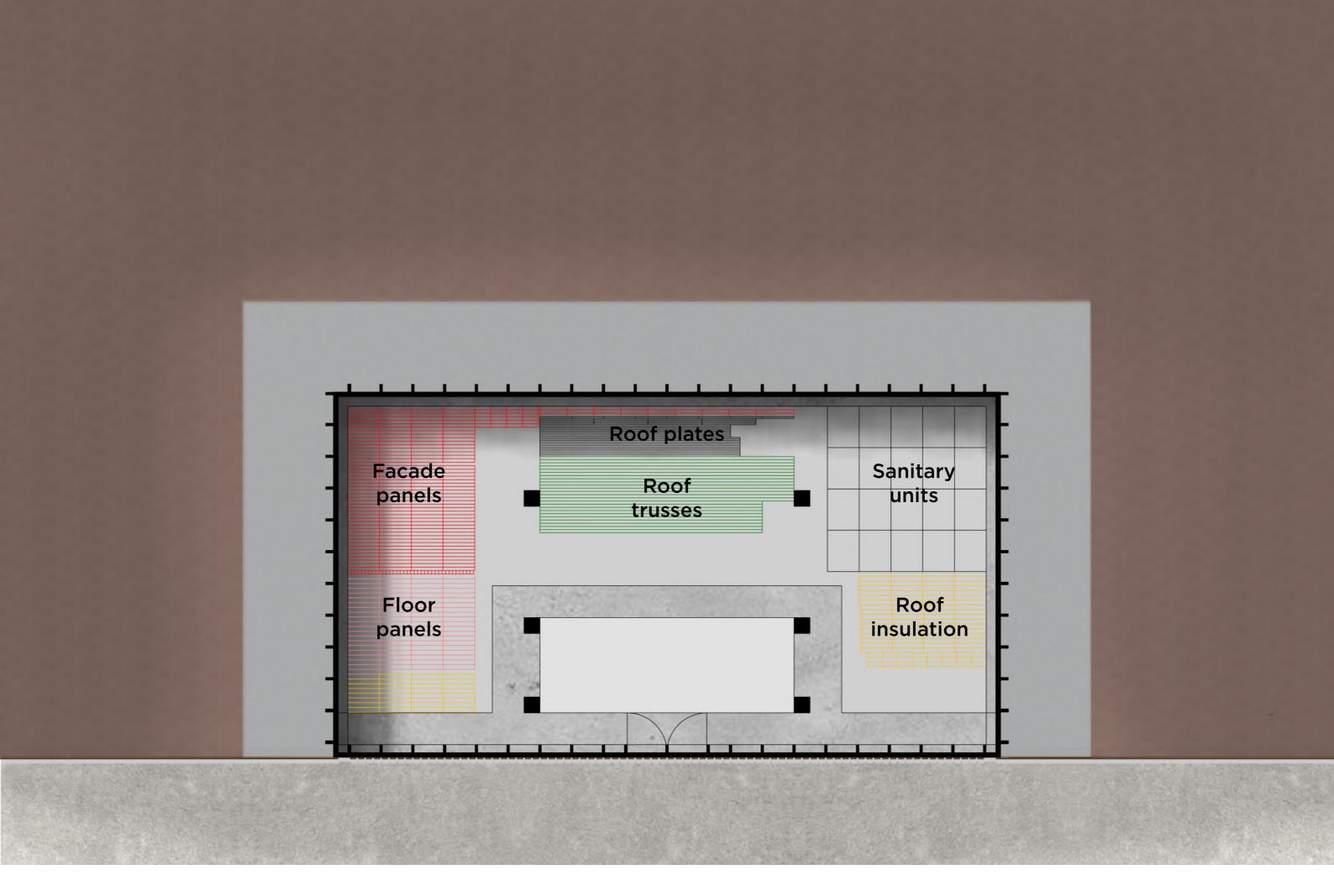






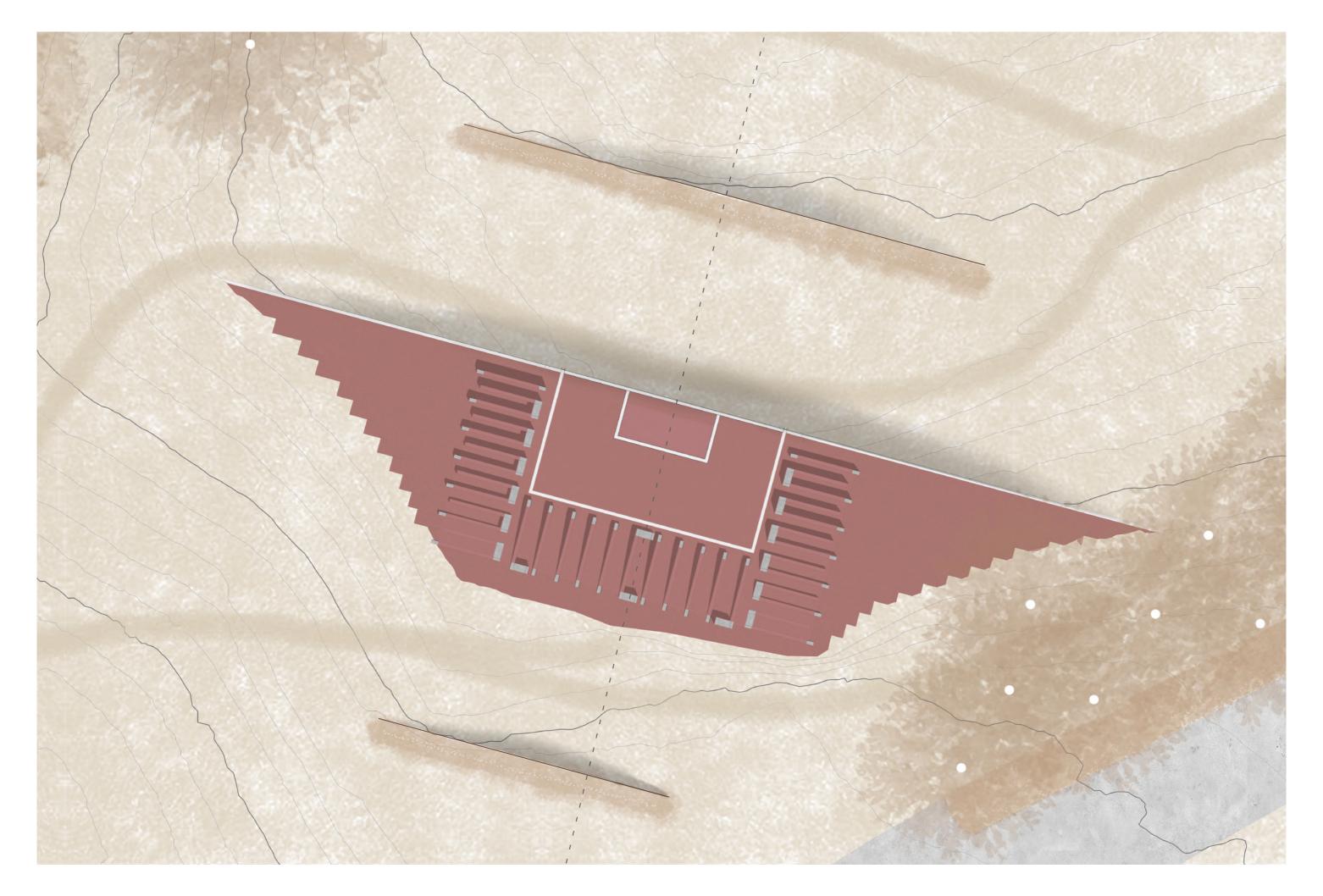


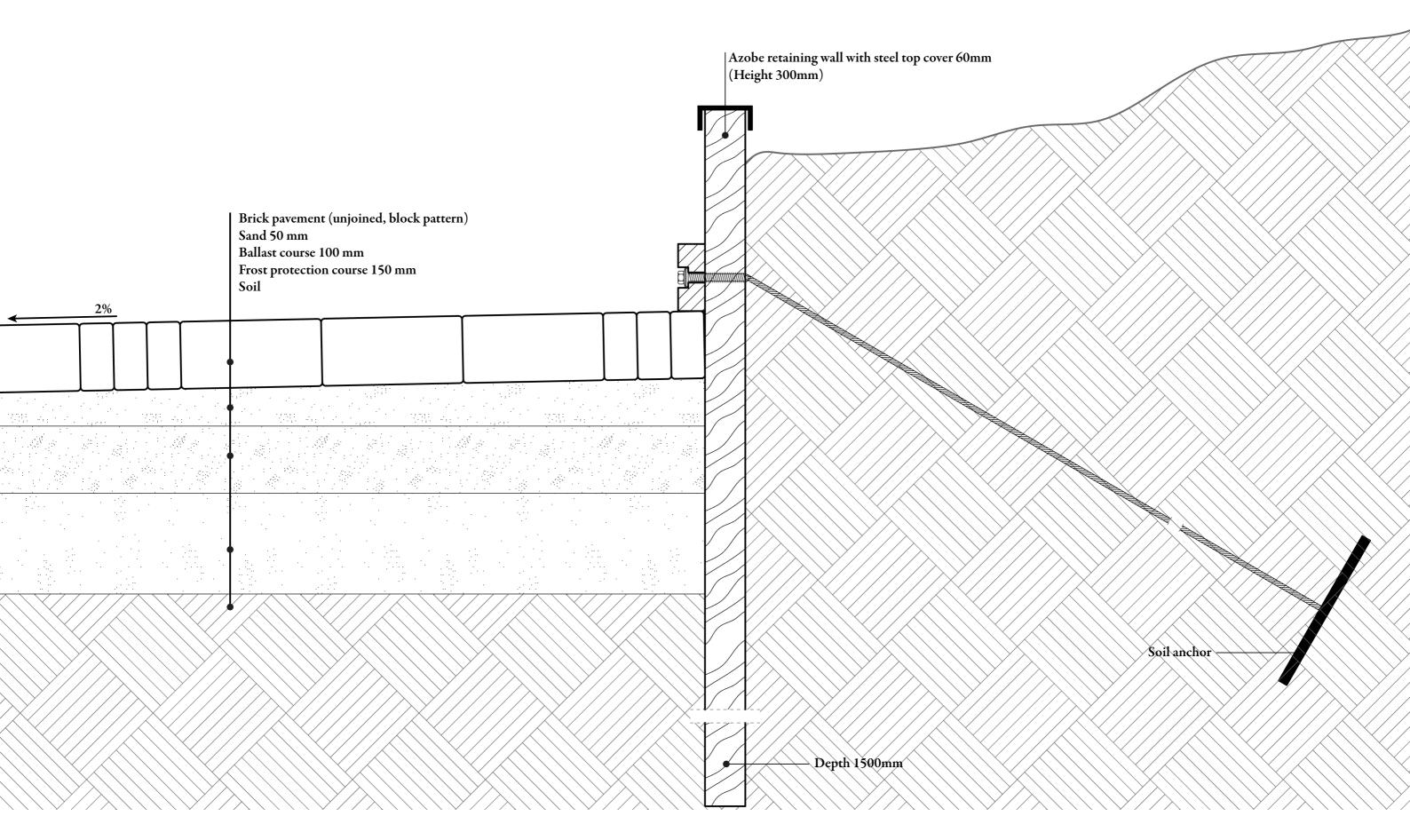


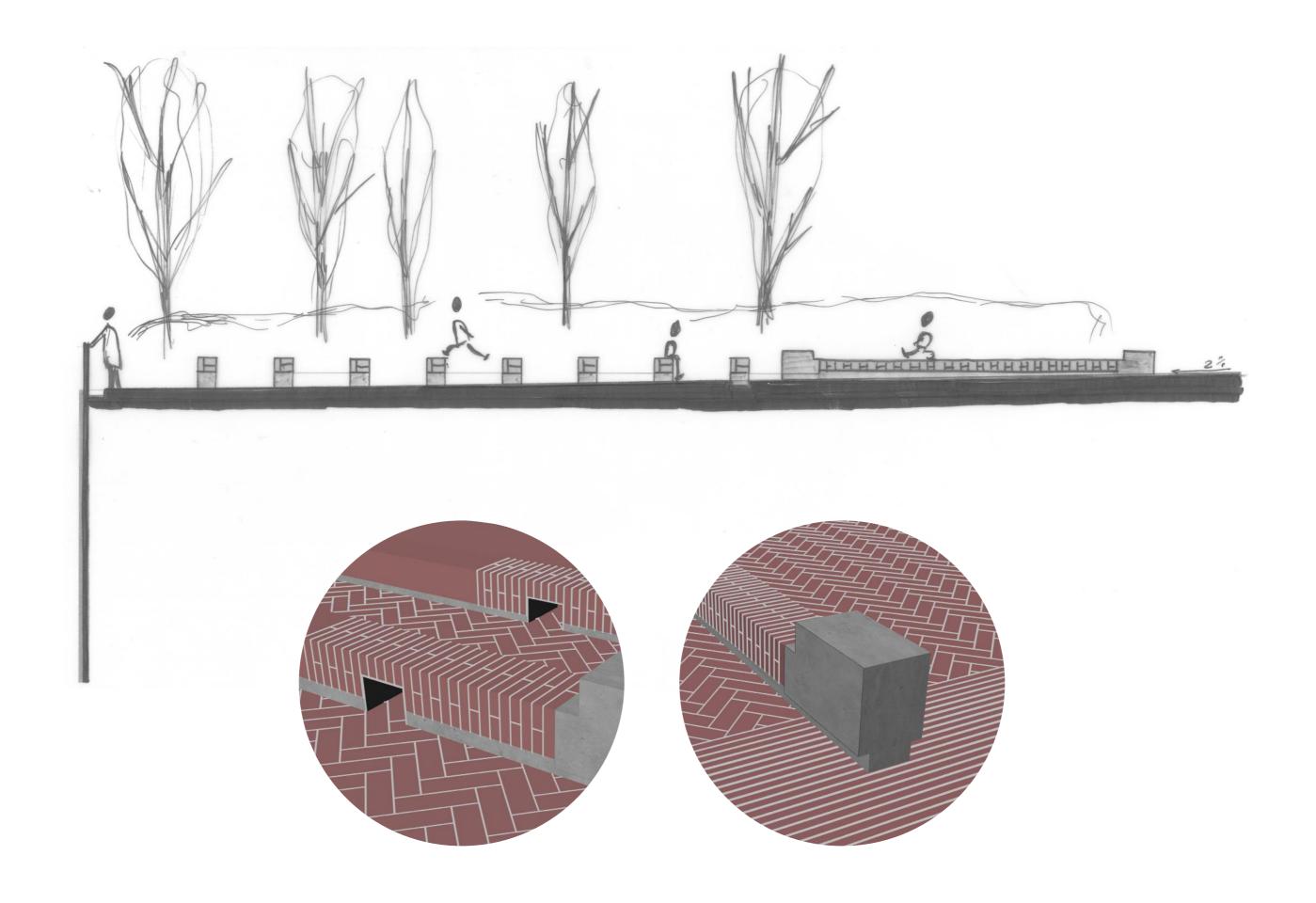


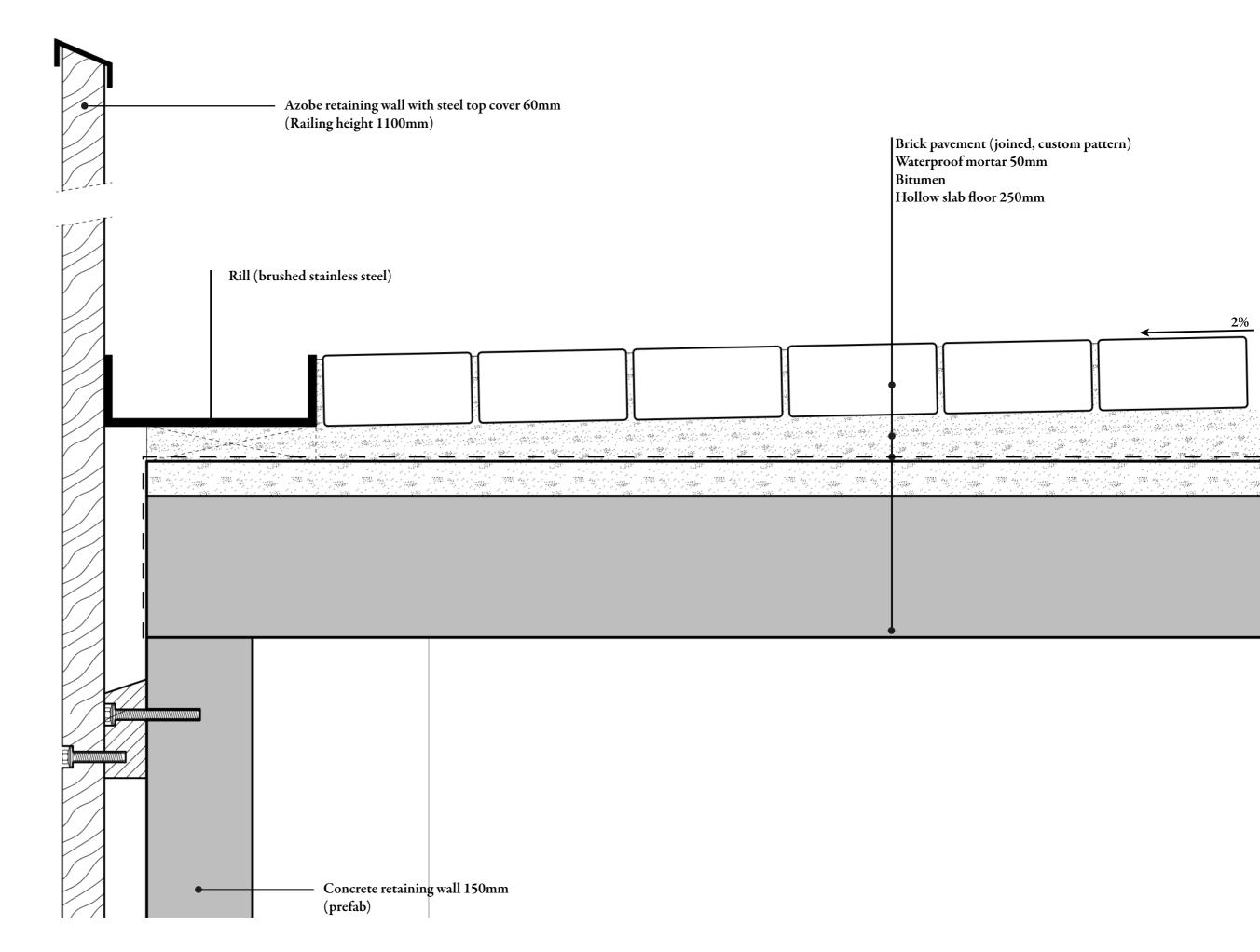


- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion

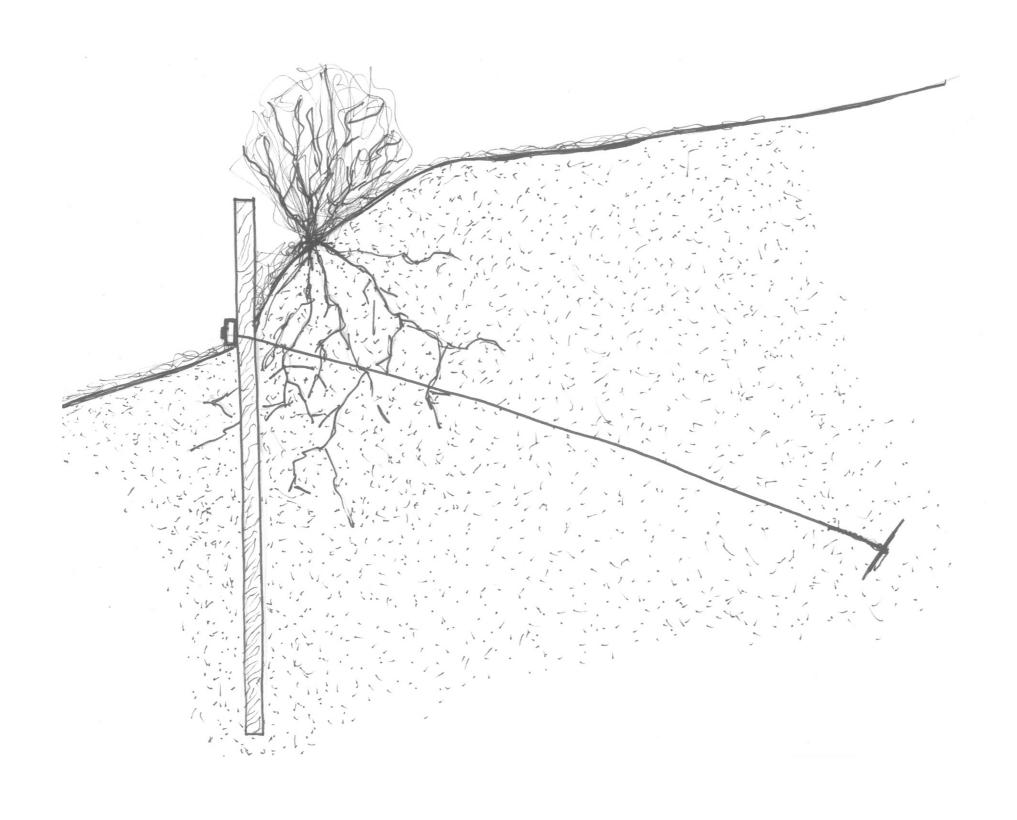


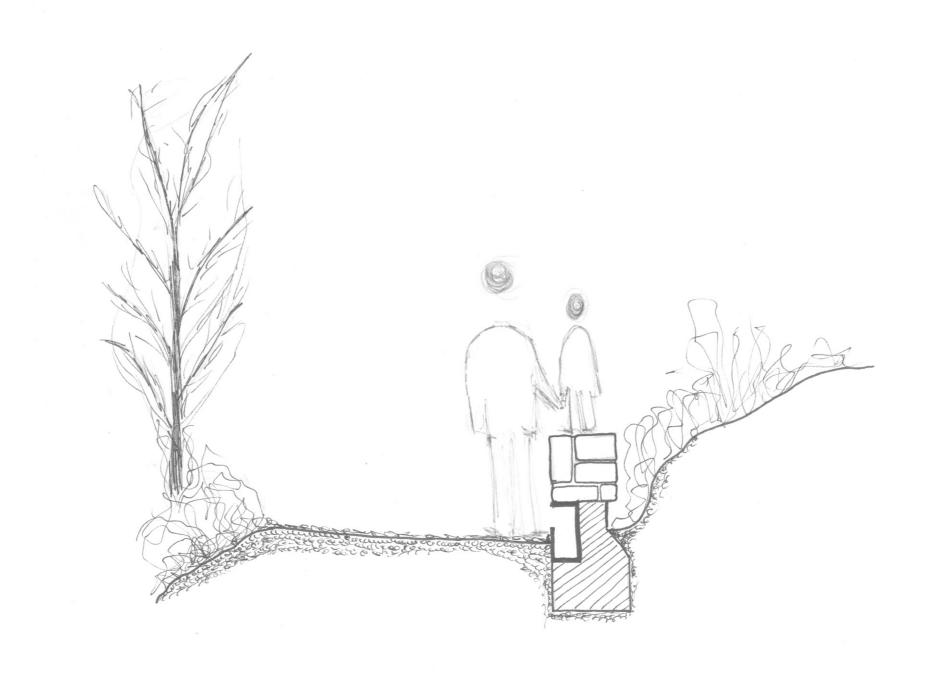




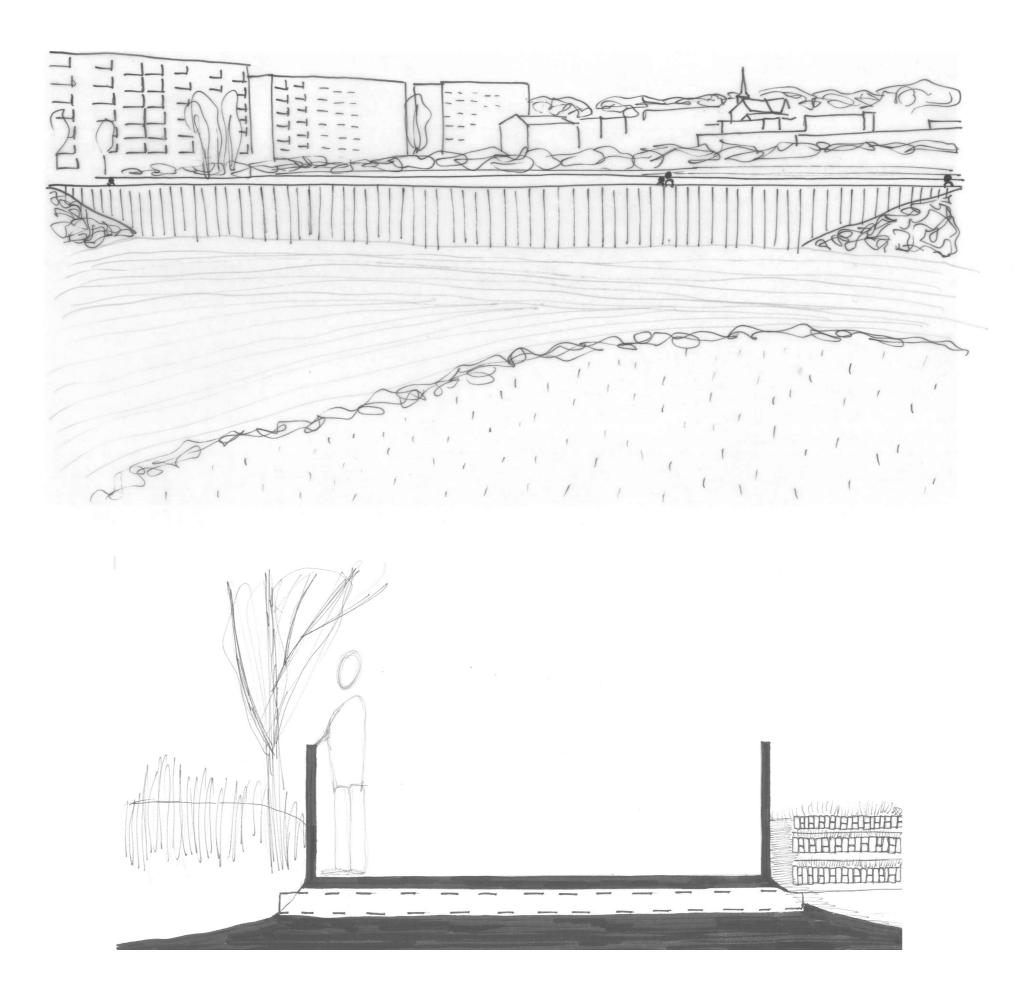


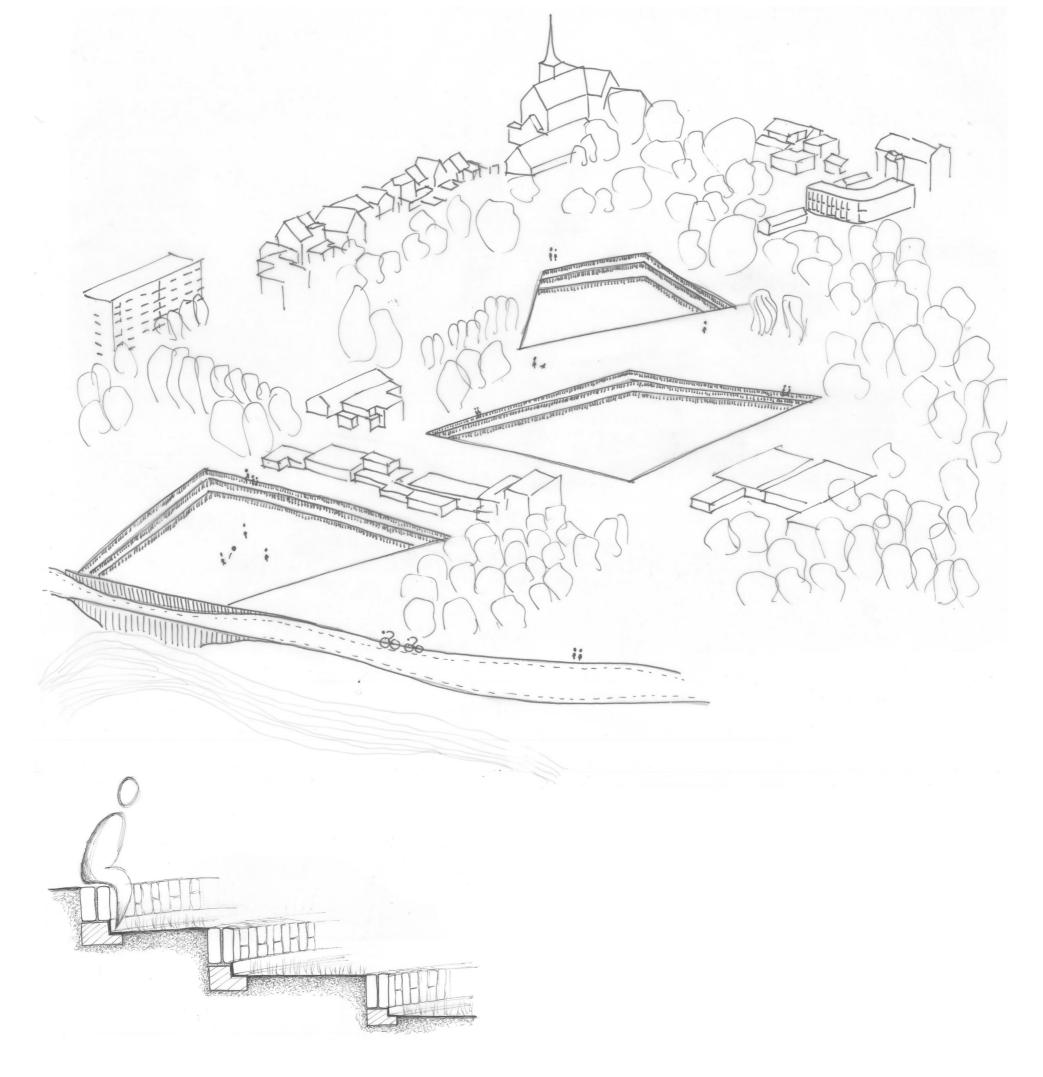


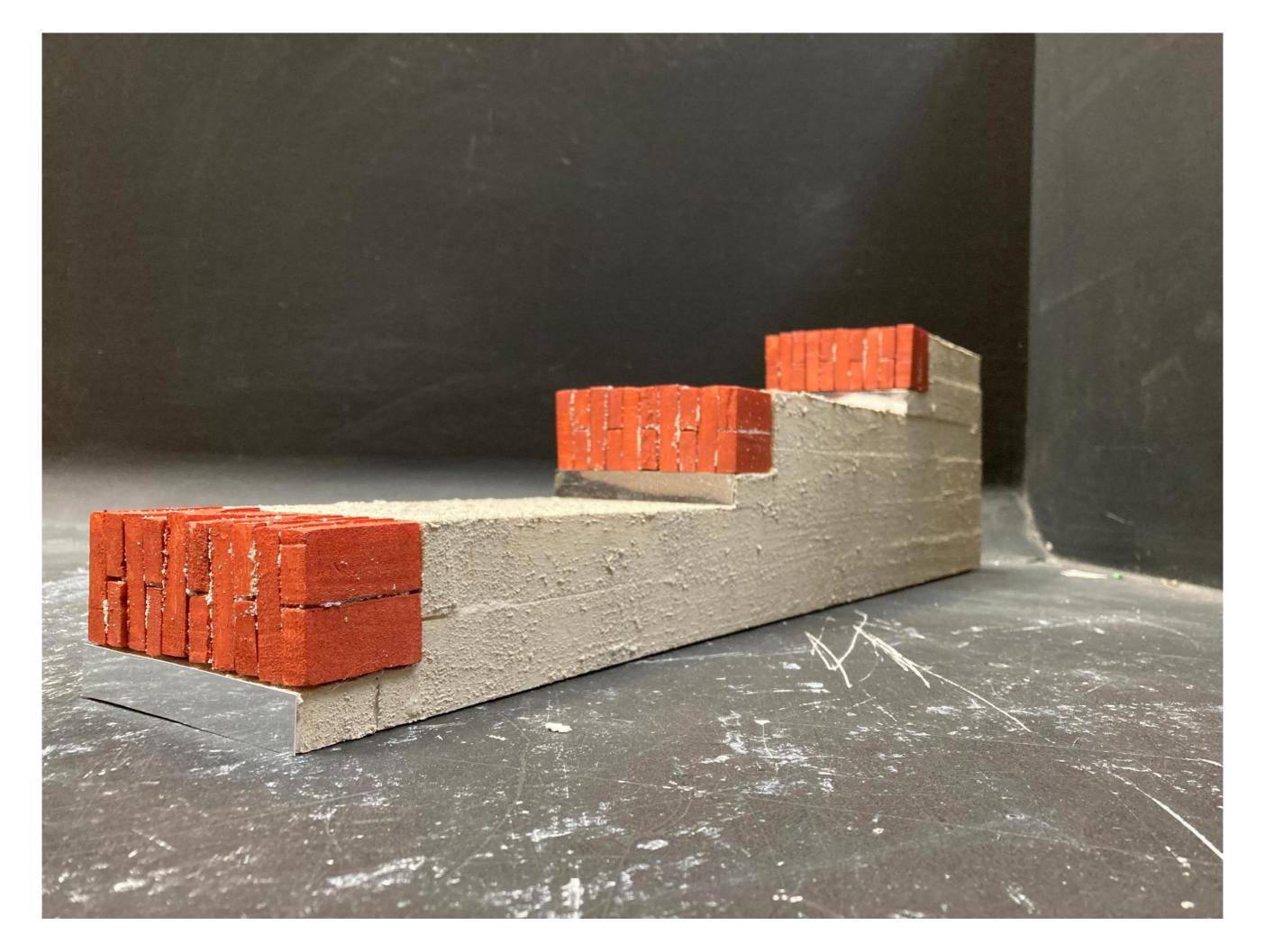










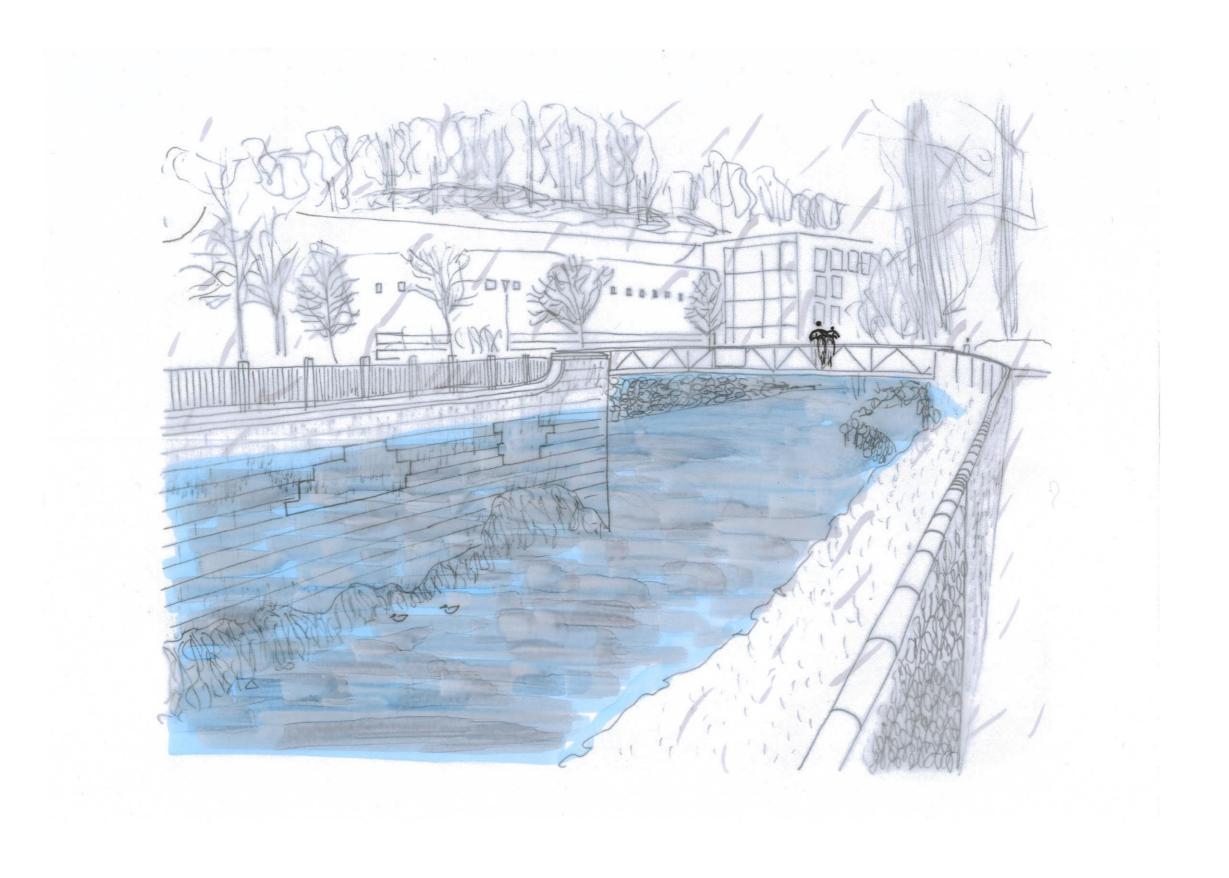




- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion

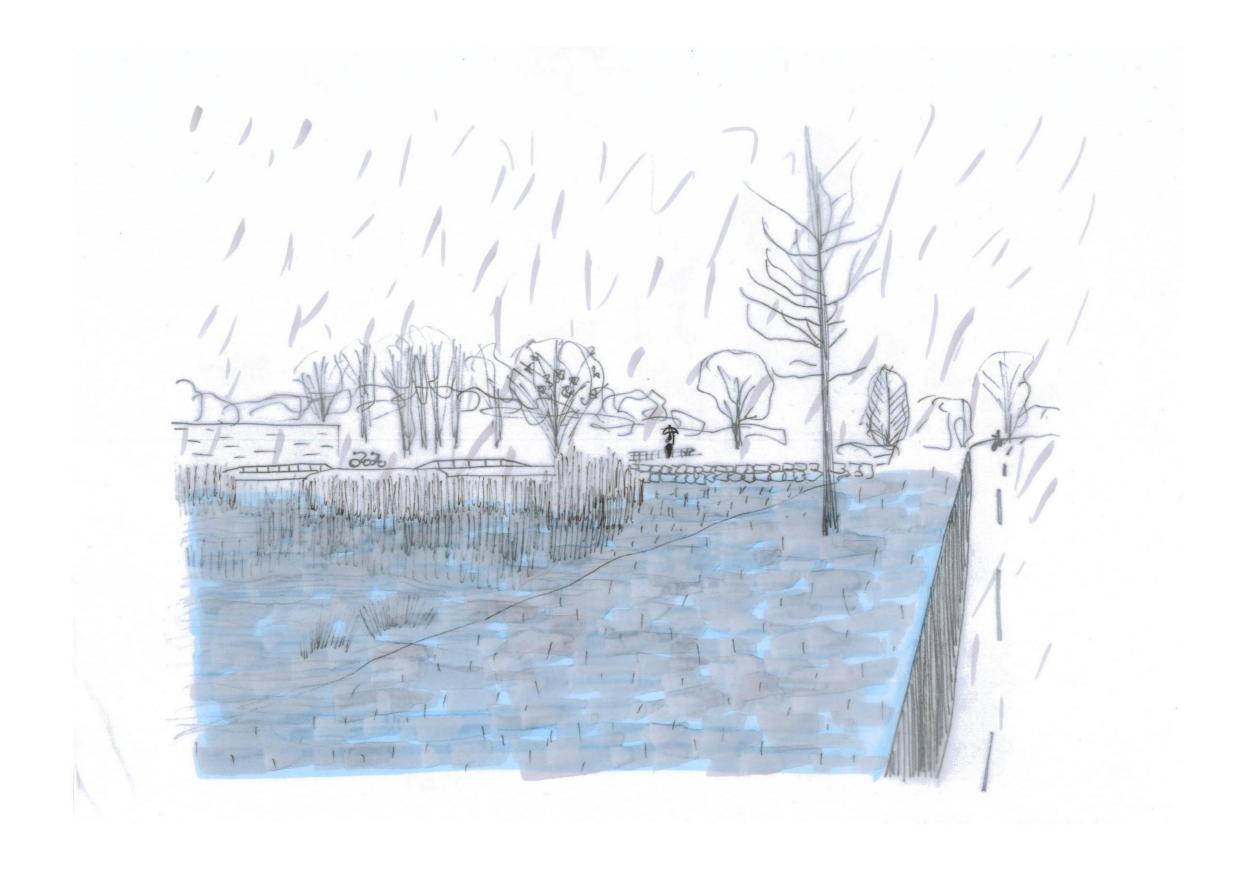




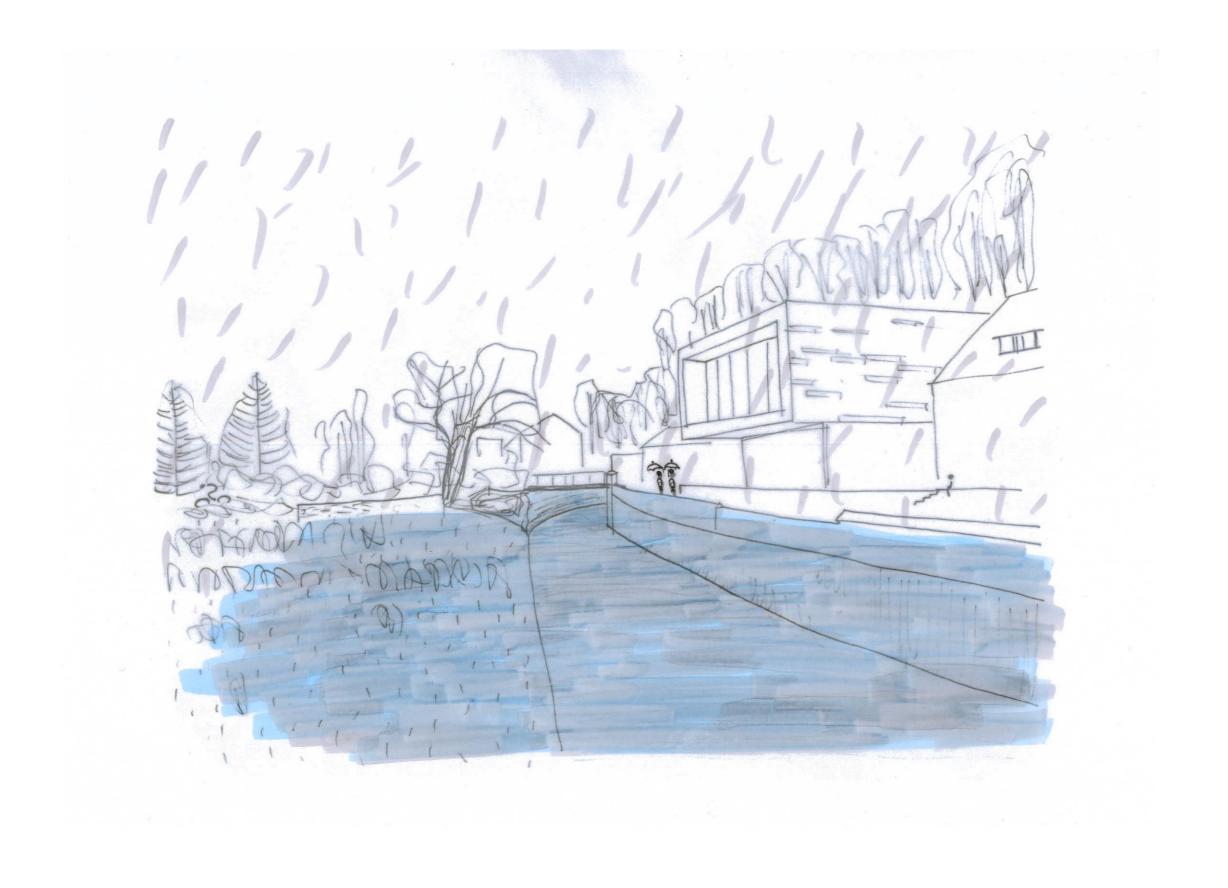




















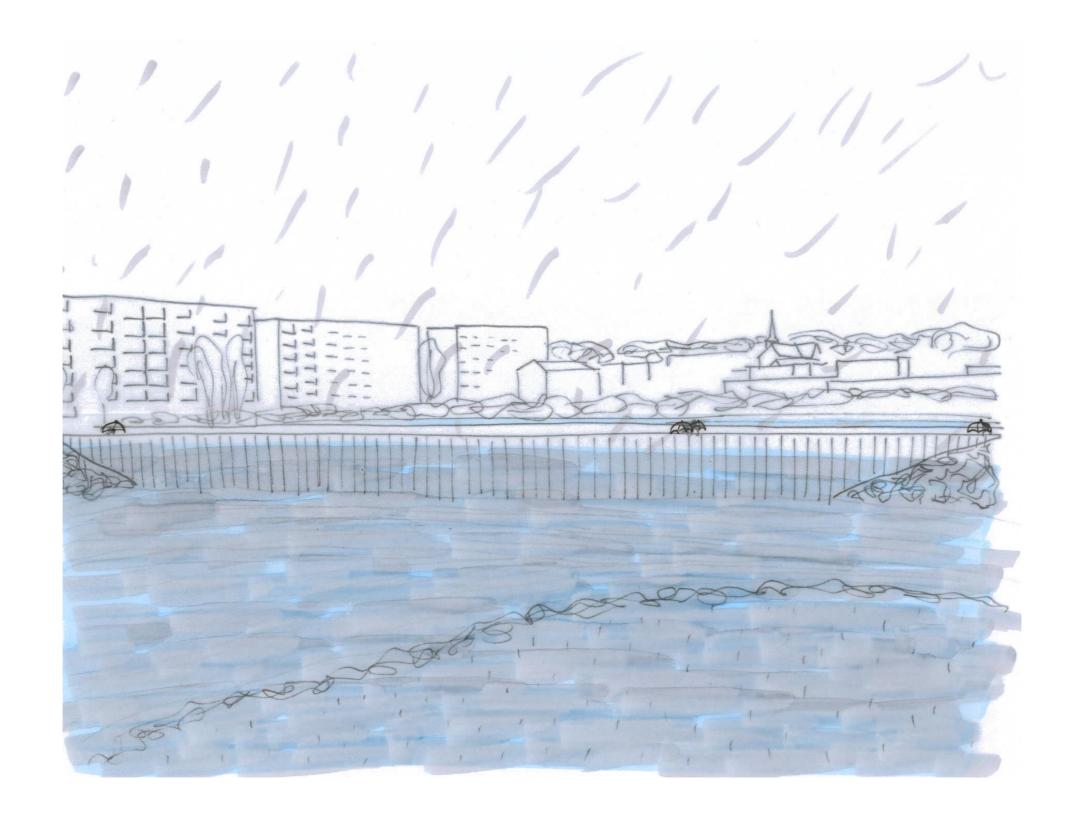


- 1. Prologue
- 2. Research: Understanding sense of safety
- 3. Design assignment
- 4. Landscape design
- 5. the Platform & the Shelter
- 6. Water course
- 7. Future flood
- 8. Conclusion

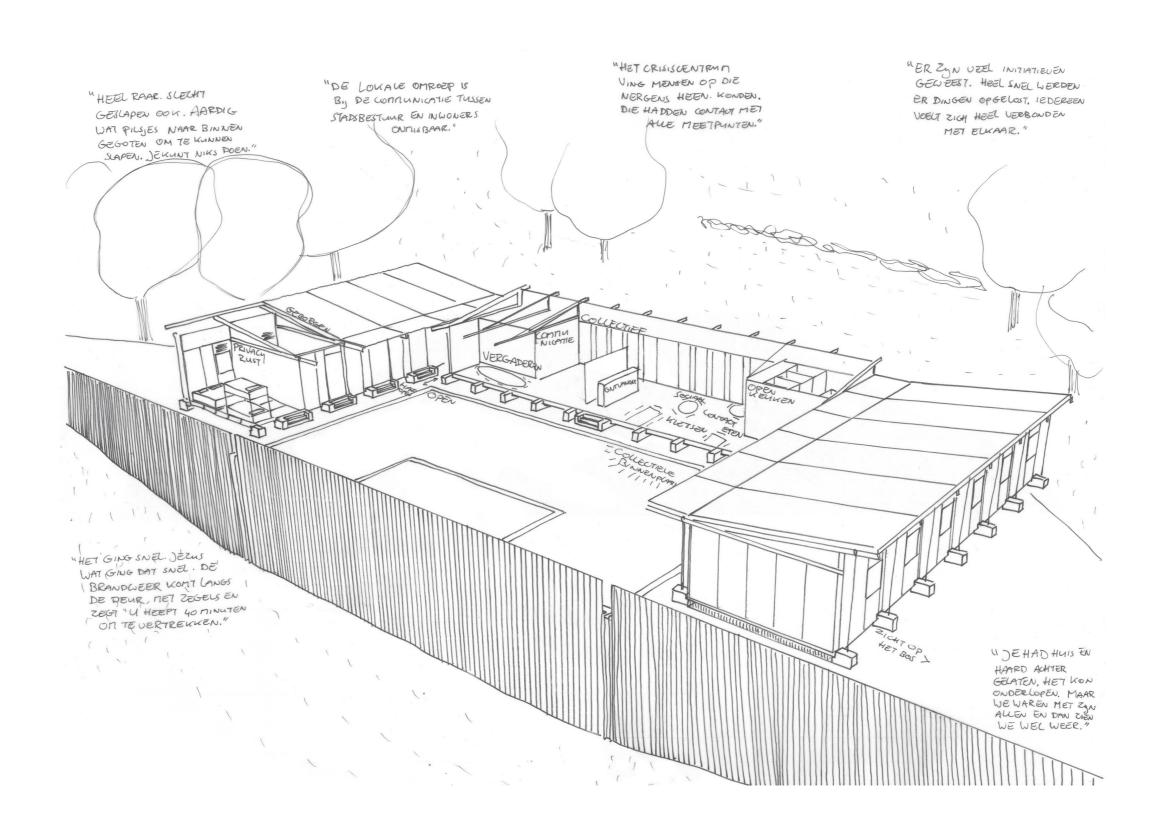
1. Stimulate an active relationship with the landscape.



2. Indicate water presence, water dynamics and flood dangers.



3. Decrease distance government-residents.



4. Provide safety from flood dangers.

