

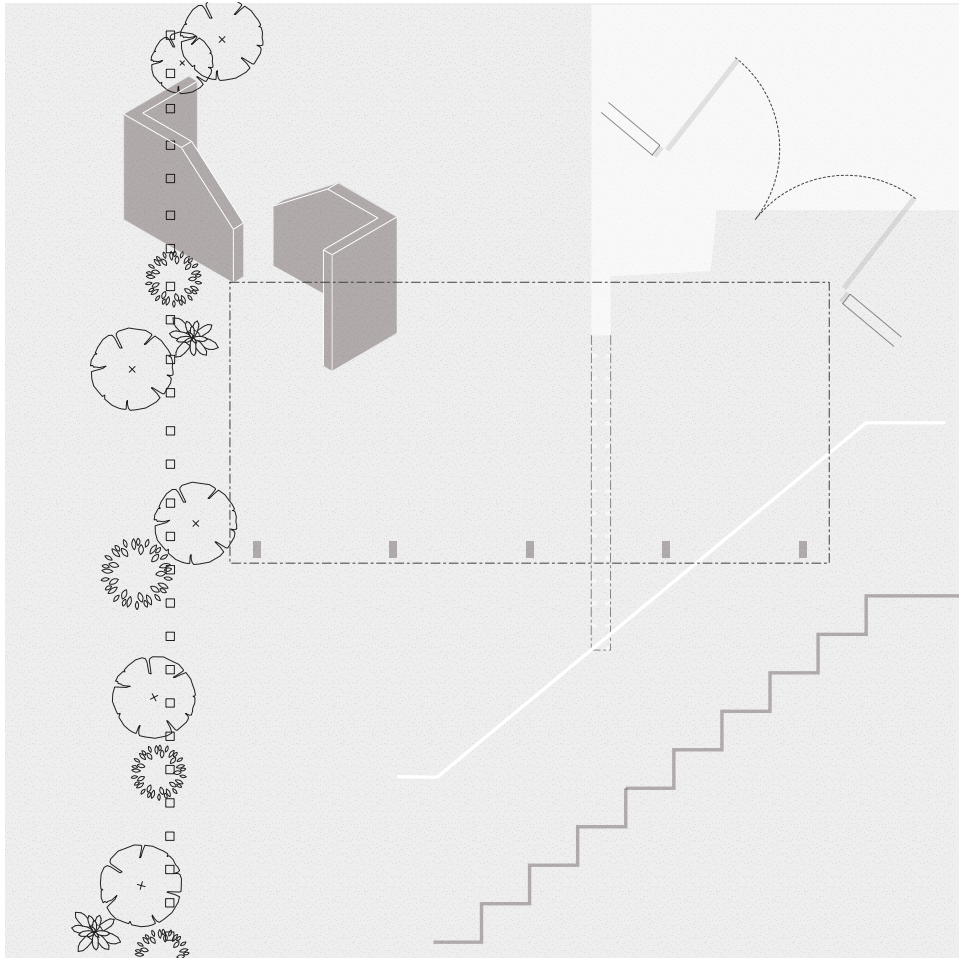
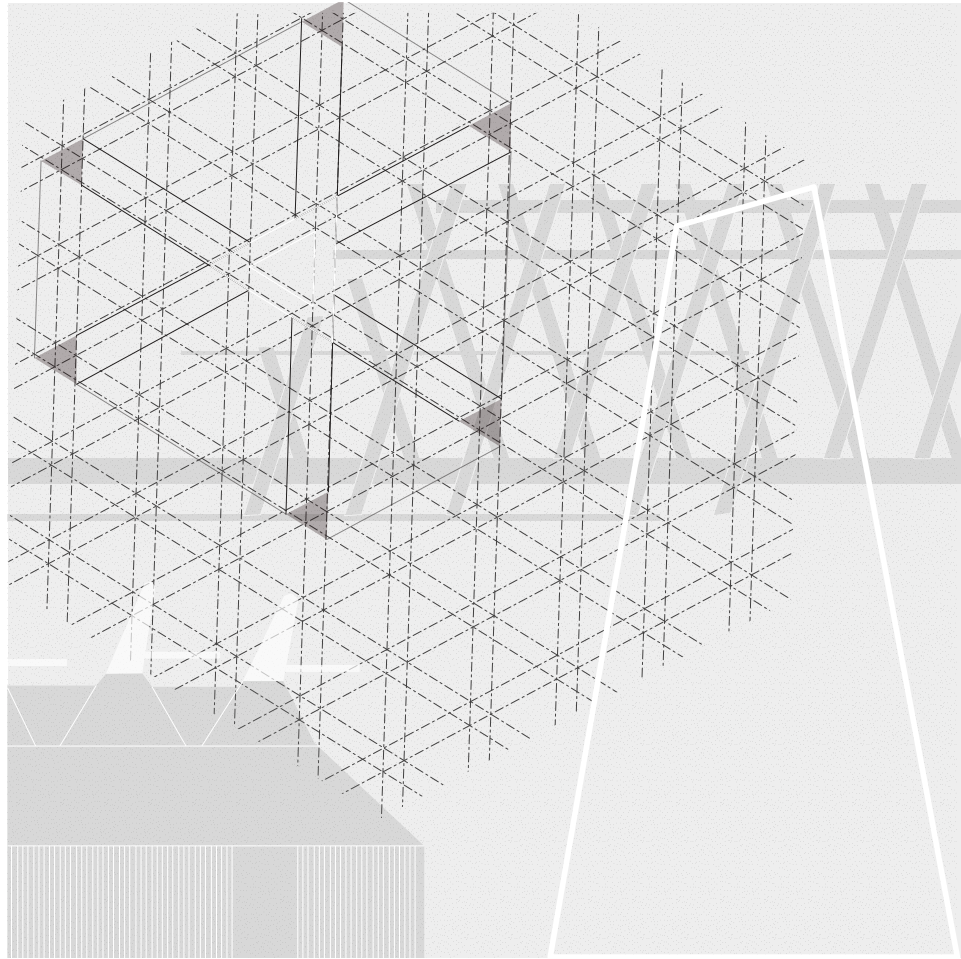
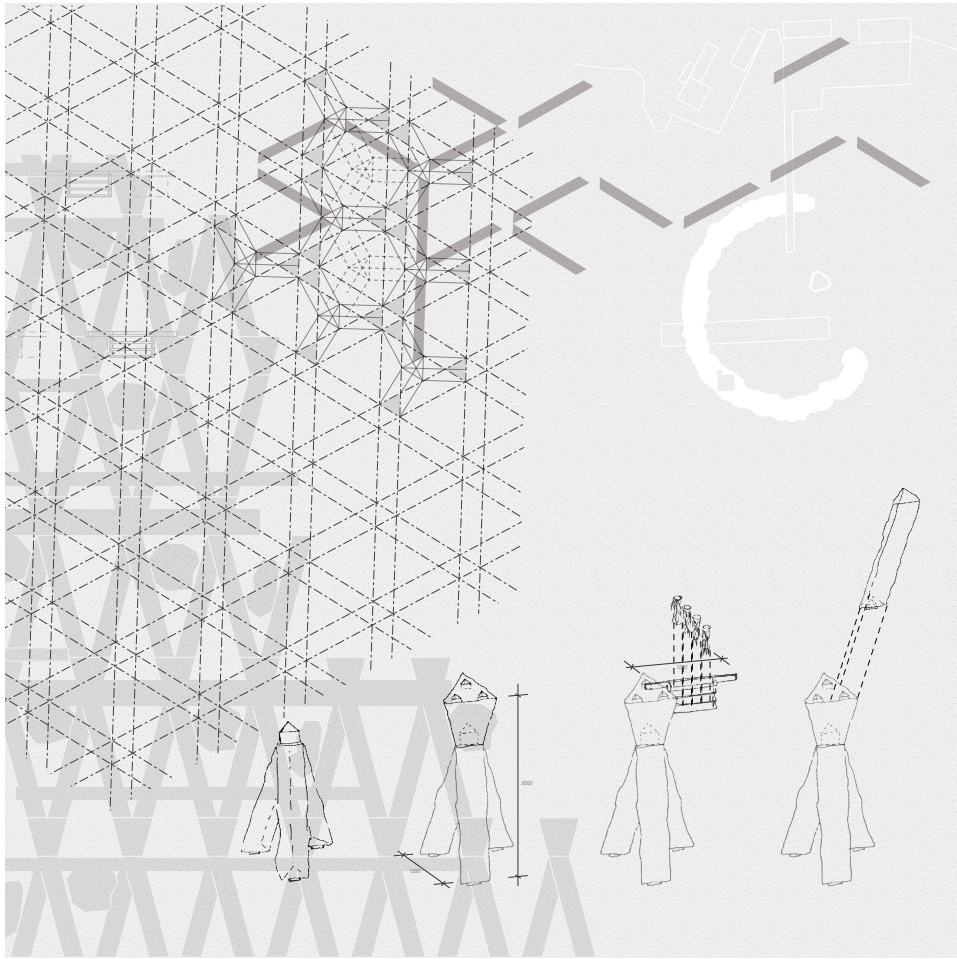
Cultivating Culture | *Cultural Cultivation*

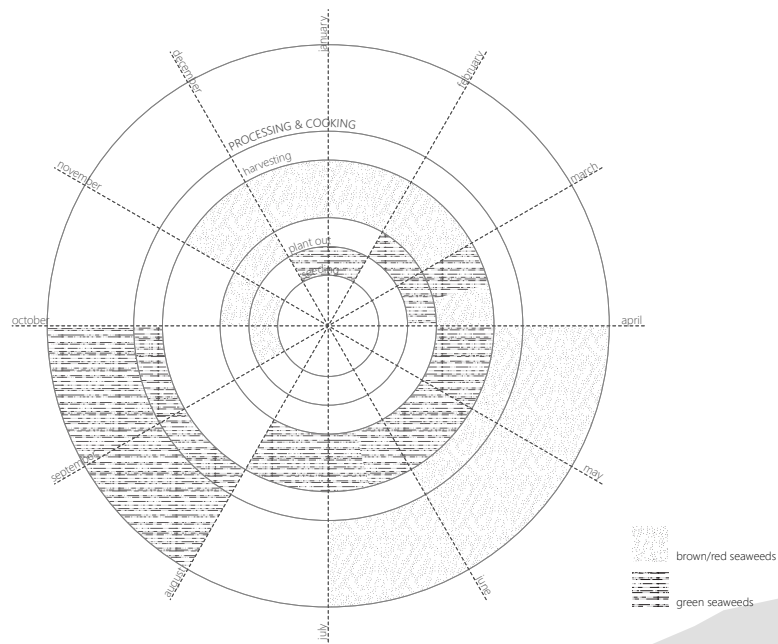
Architectural Realisation

Transitional Territories | Ruby Sleigh  
July 2019

## 1/ Strategy

- three dimensions of approach
- temporal aspects
- circulation & intersections
- integration & embeddedness

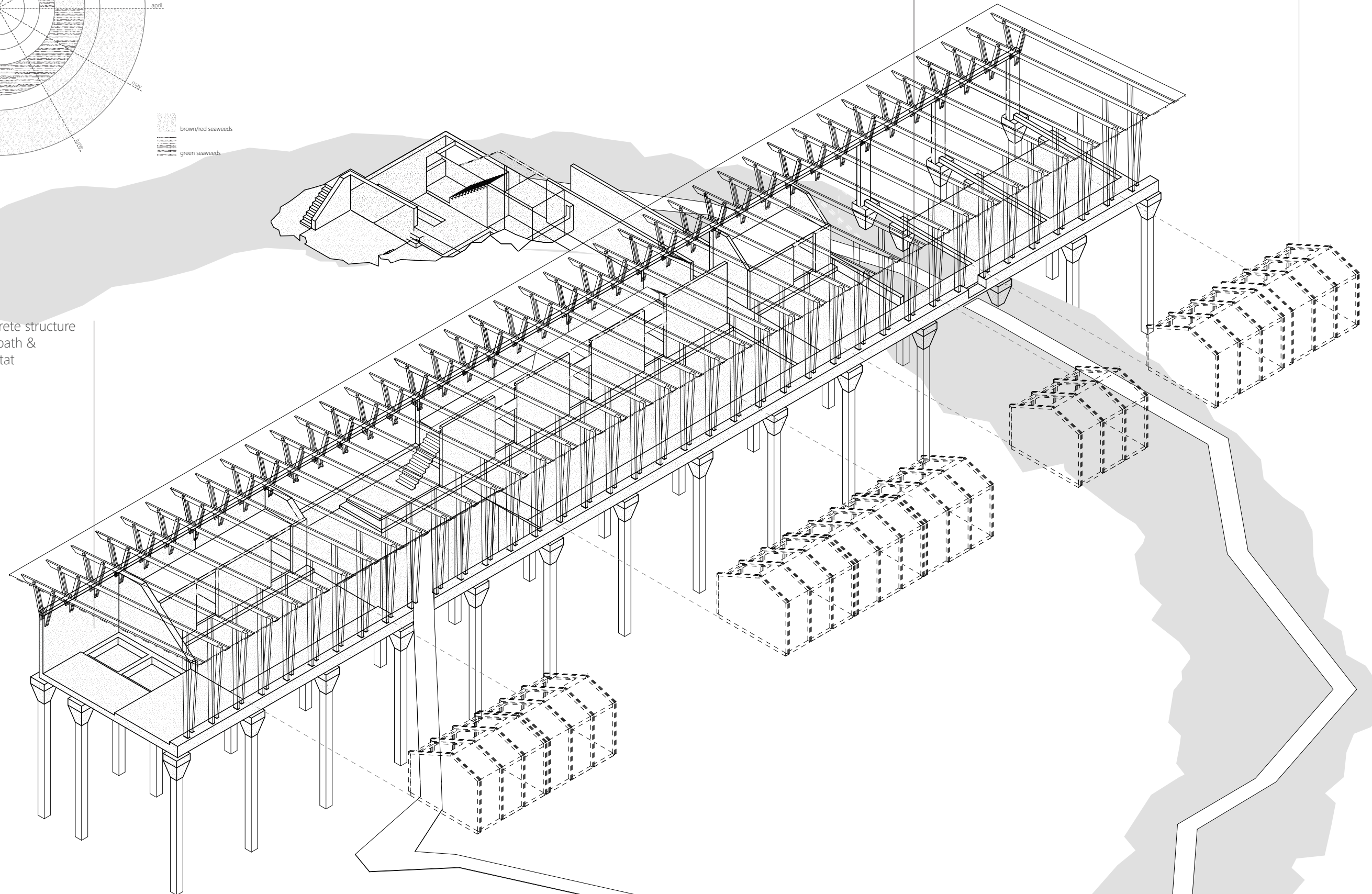


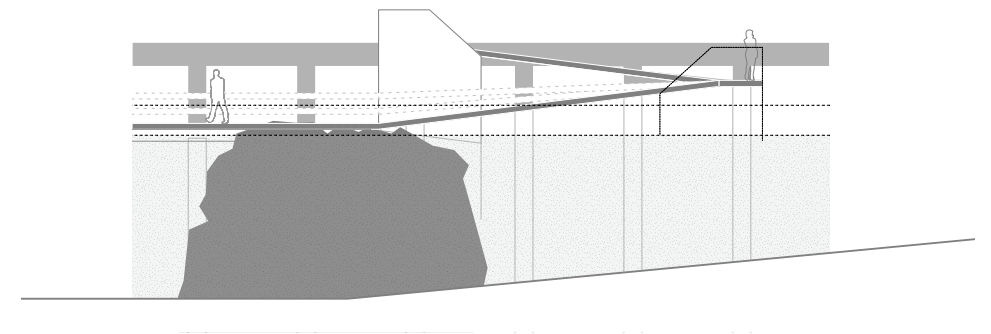
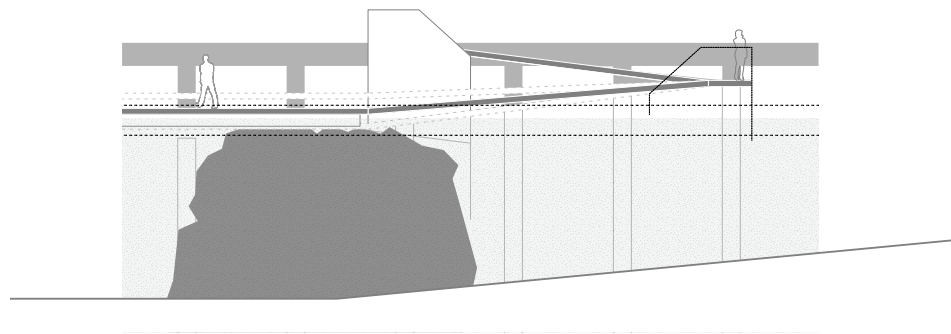
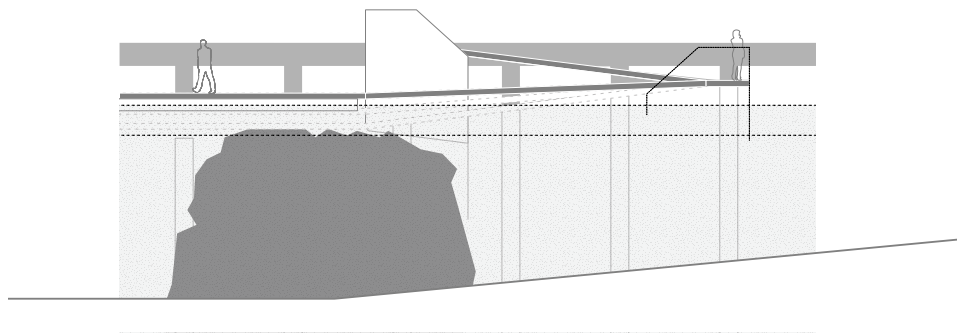
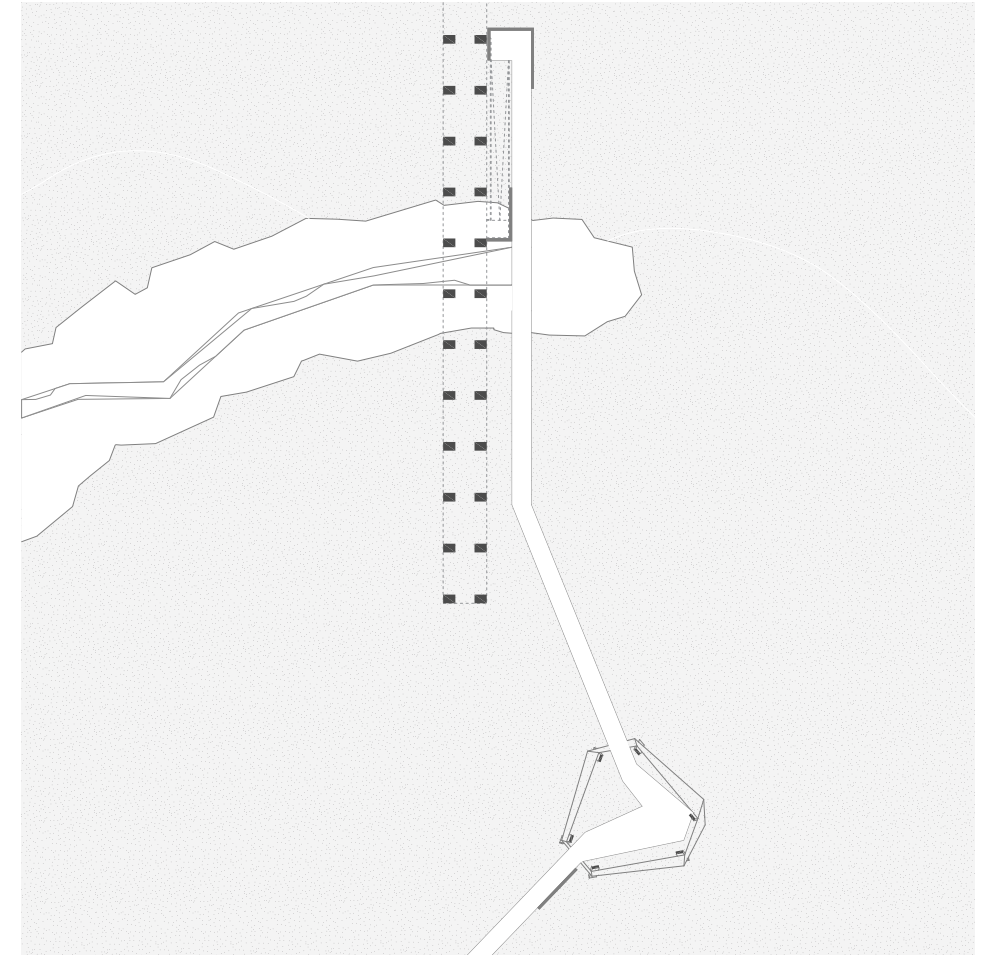
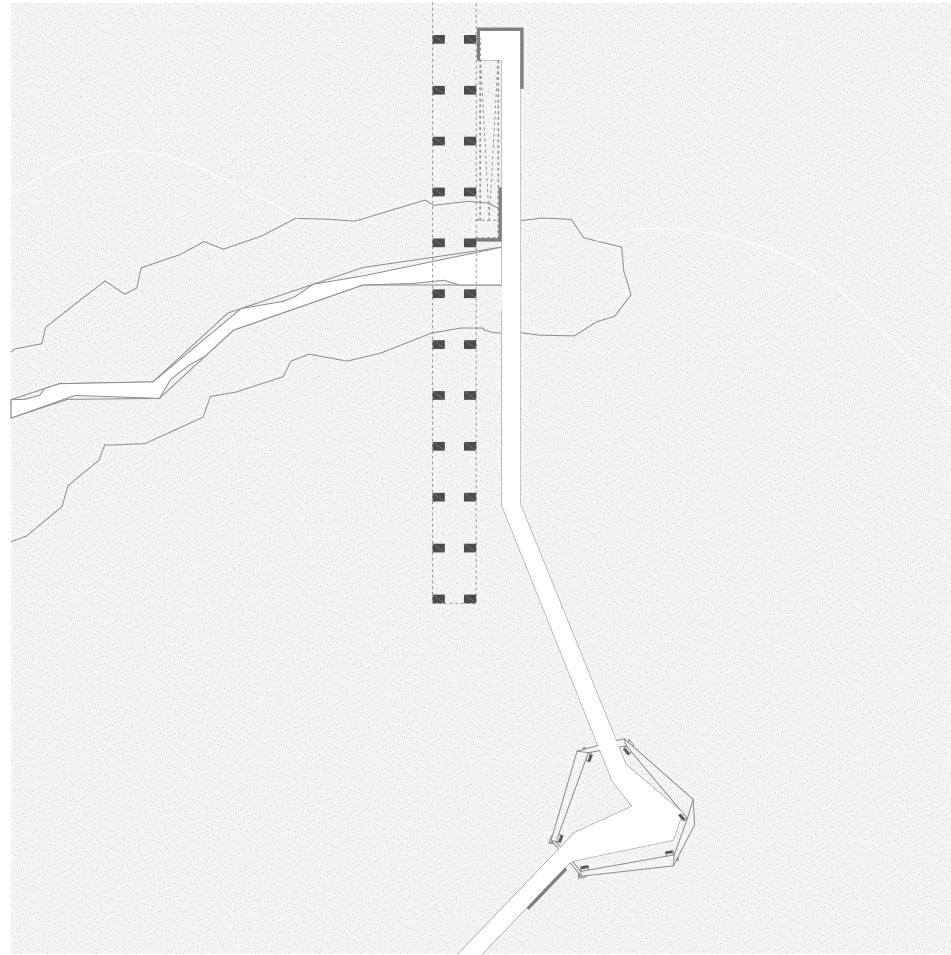
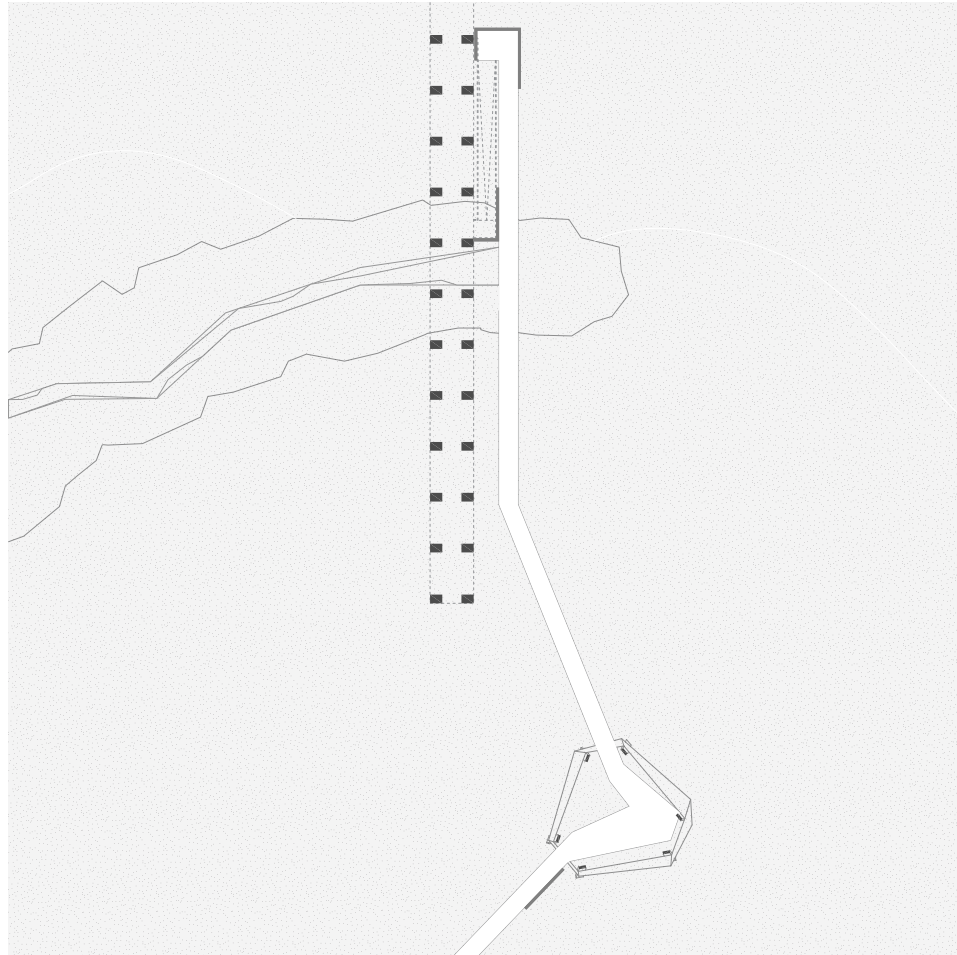


timber roof structure distinct -  
easy to replace/repair

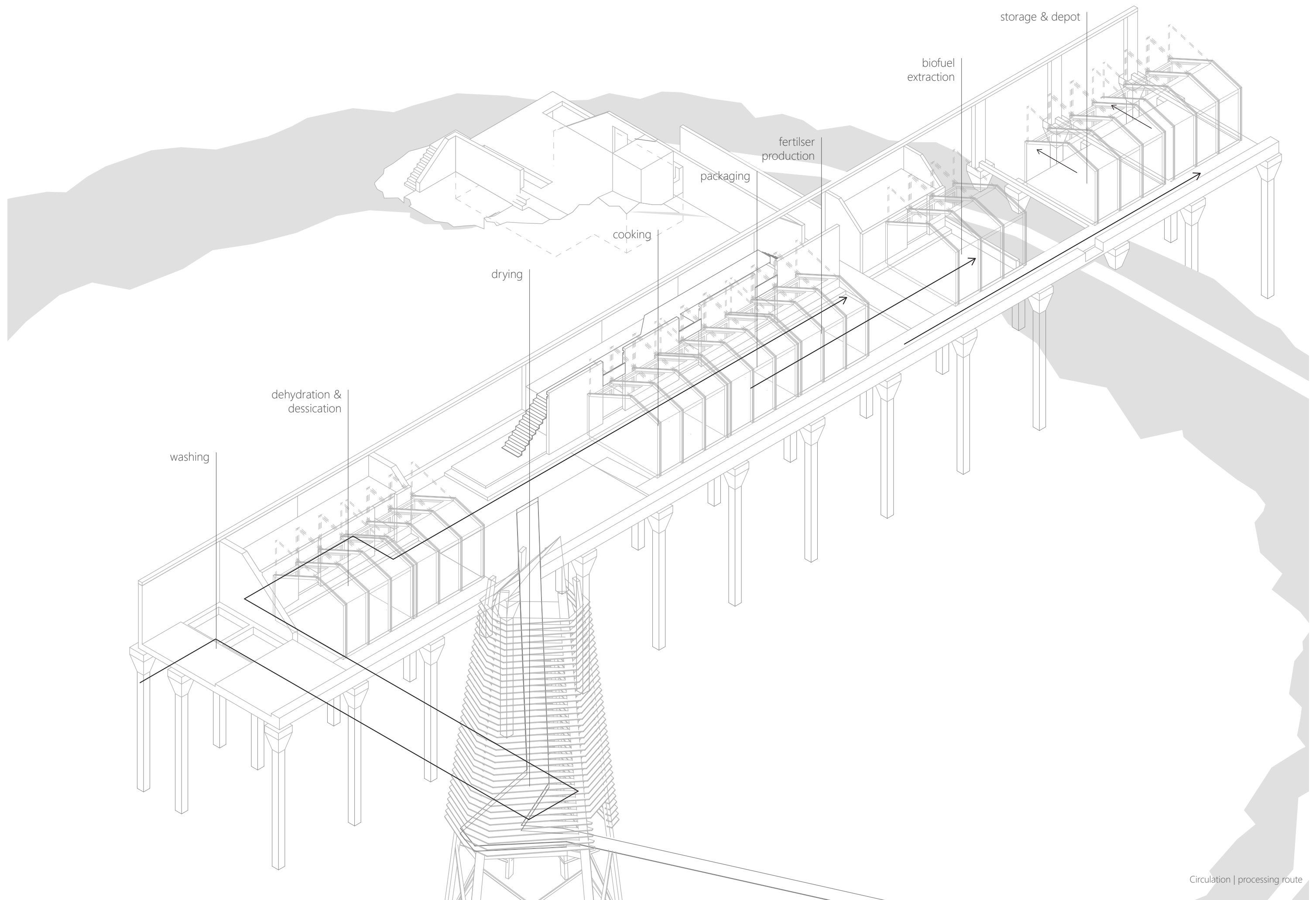
prefab timber modules installed  
in high season

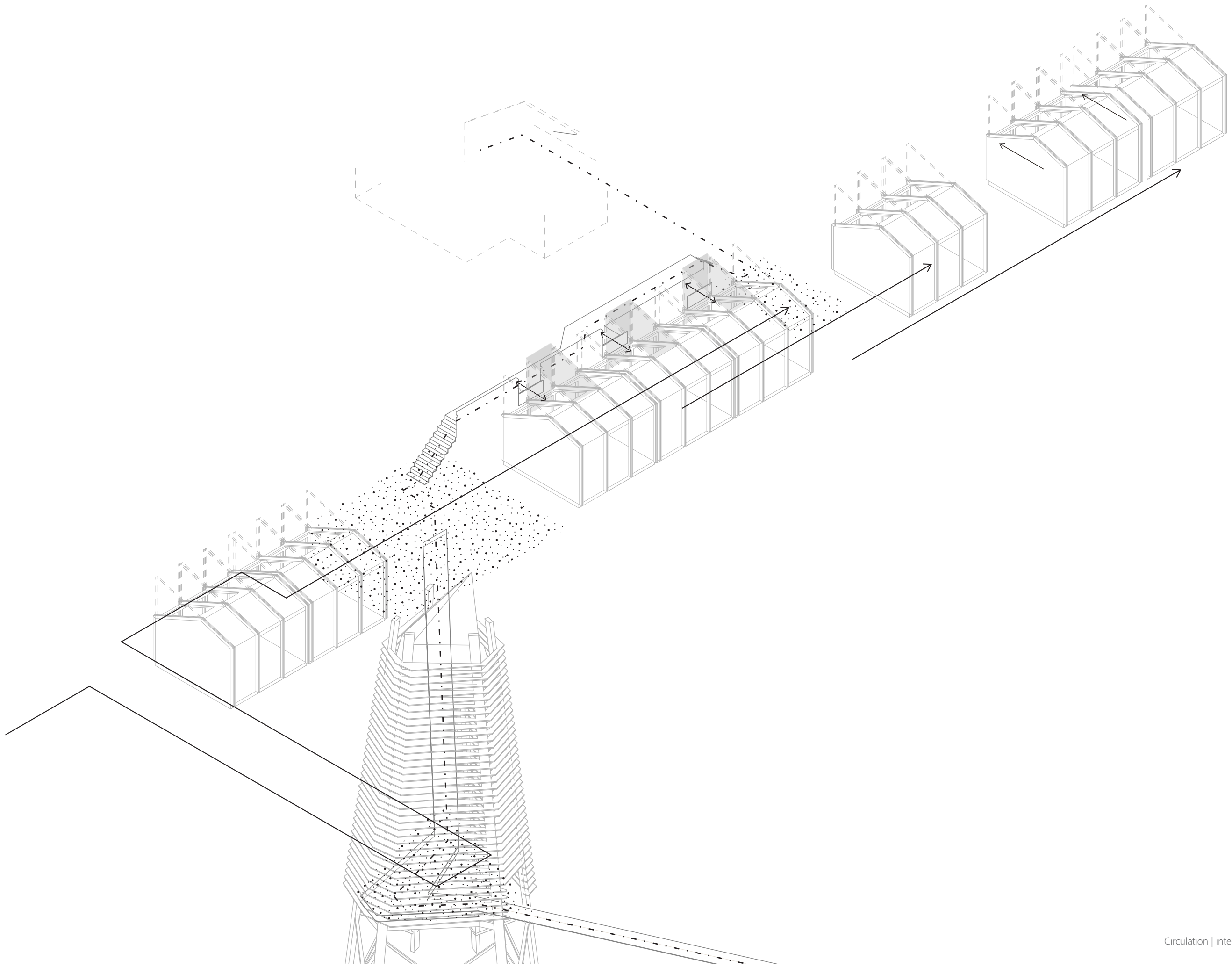
permanent concrete structure  
accommodates path &  
underwater habitat









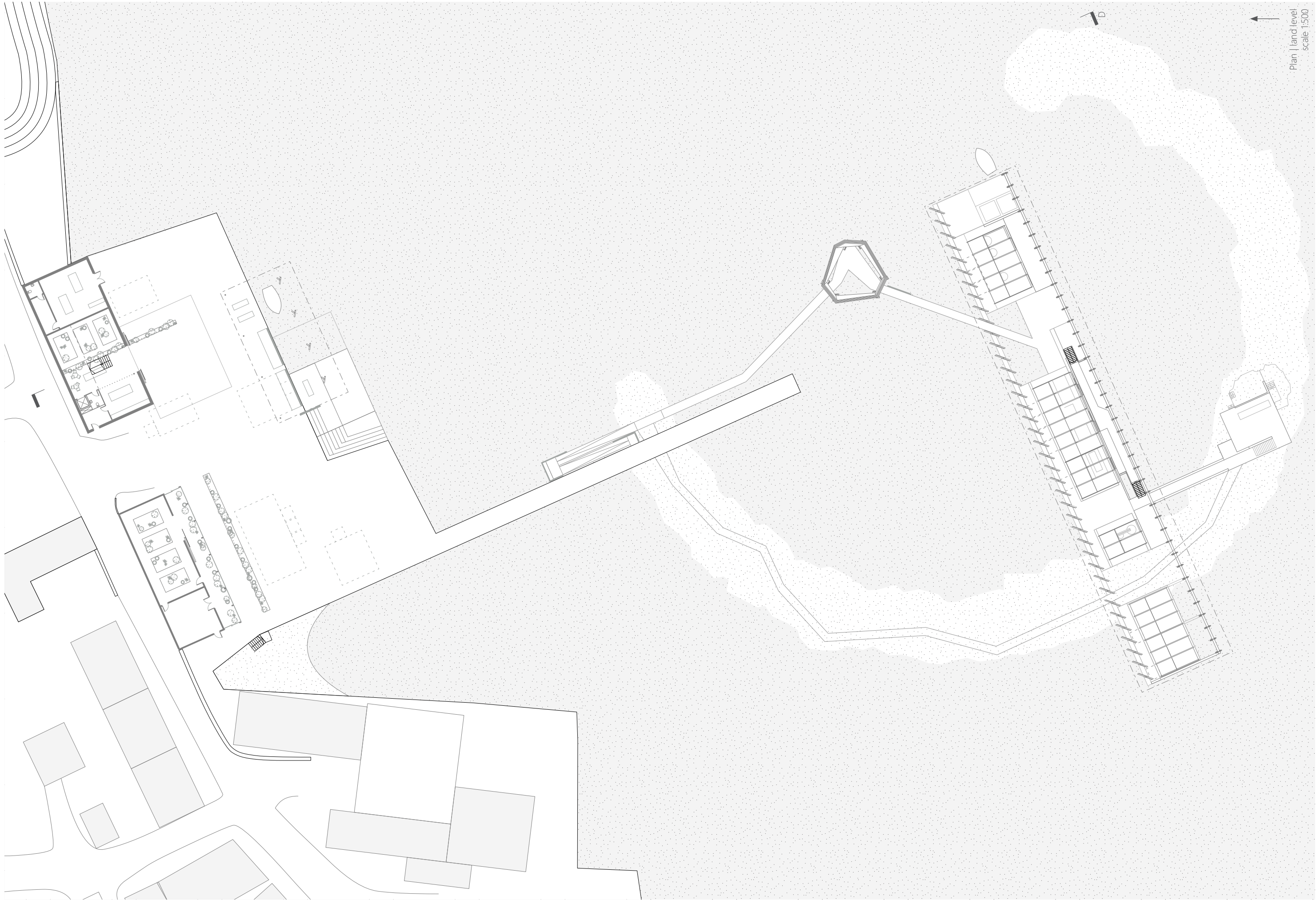


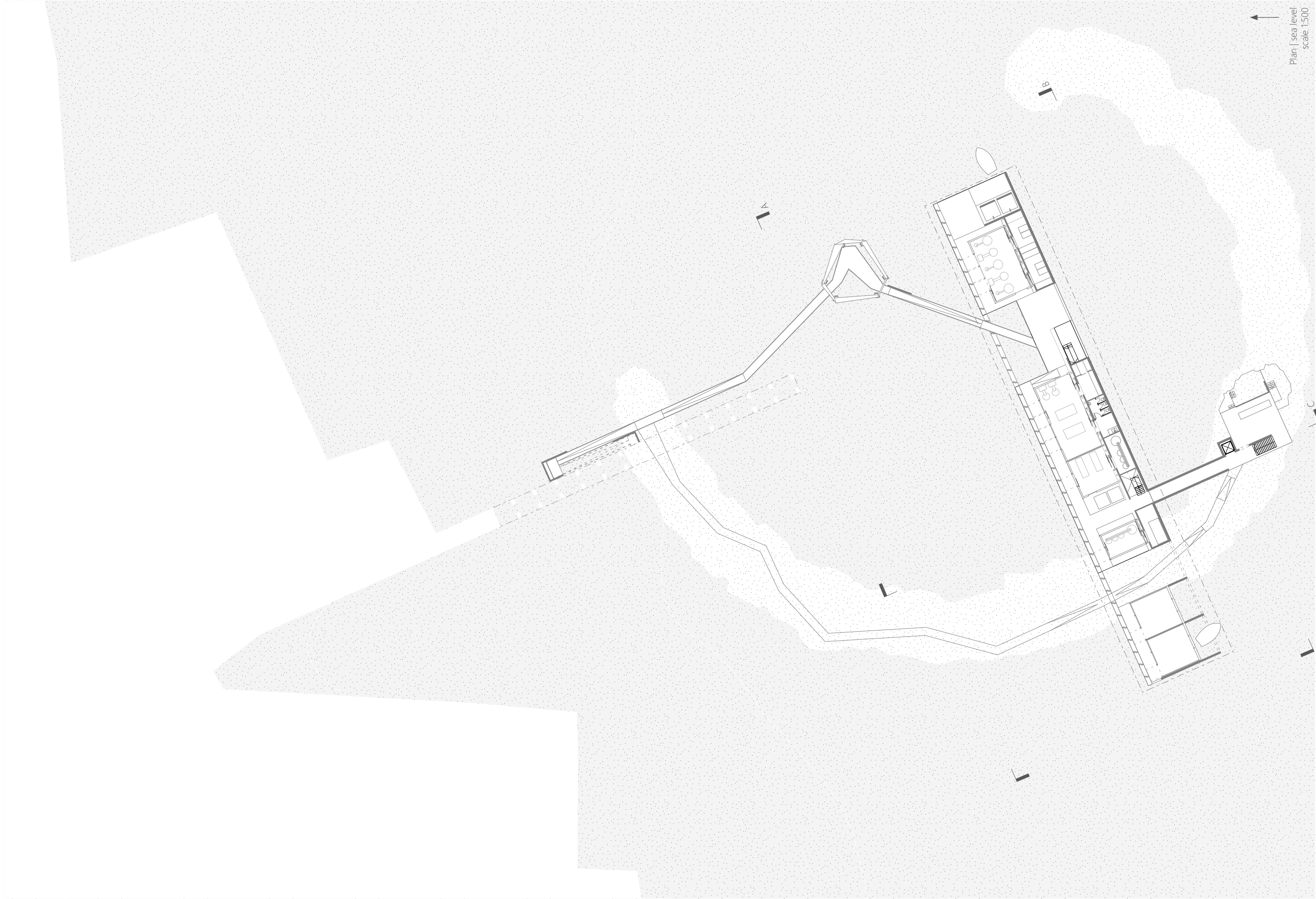




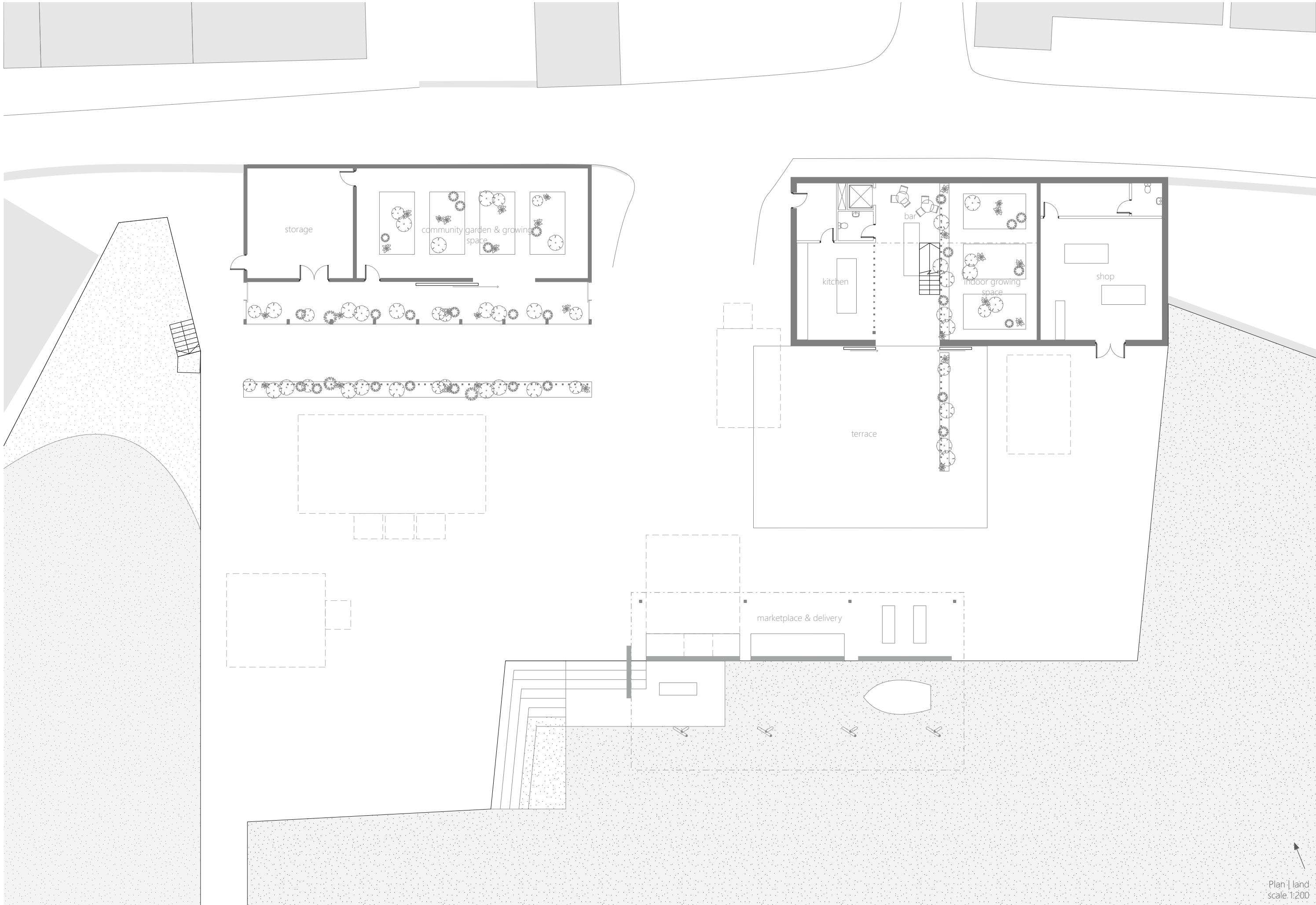
## 2/ Articulation

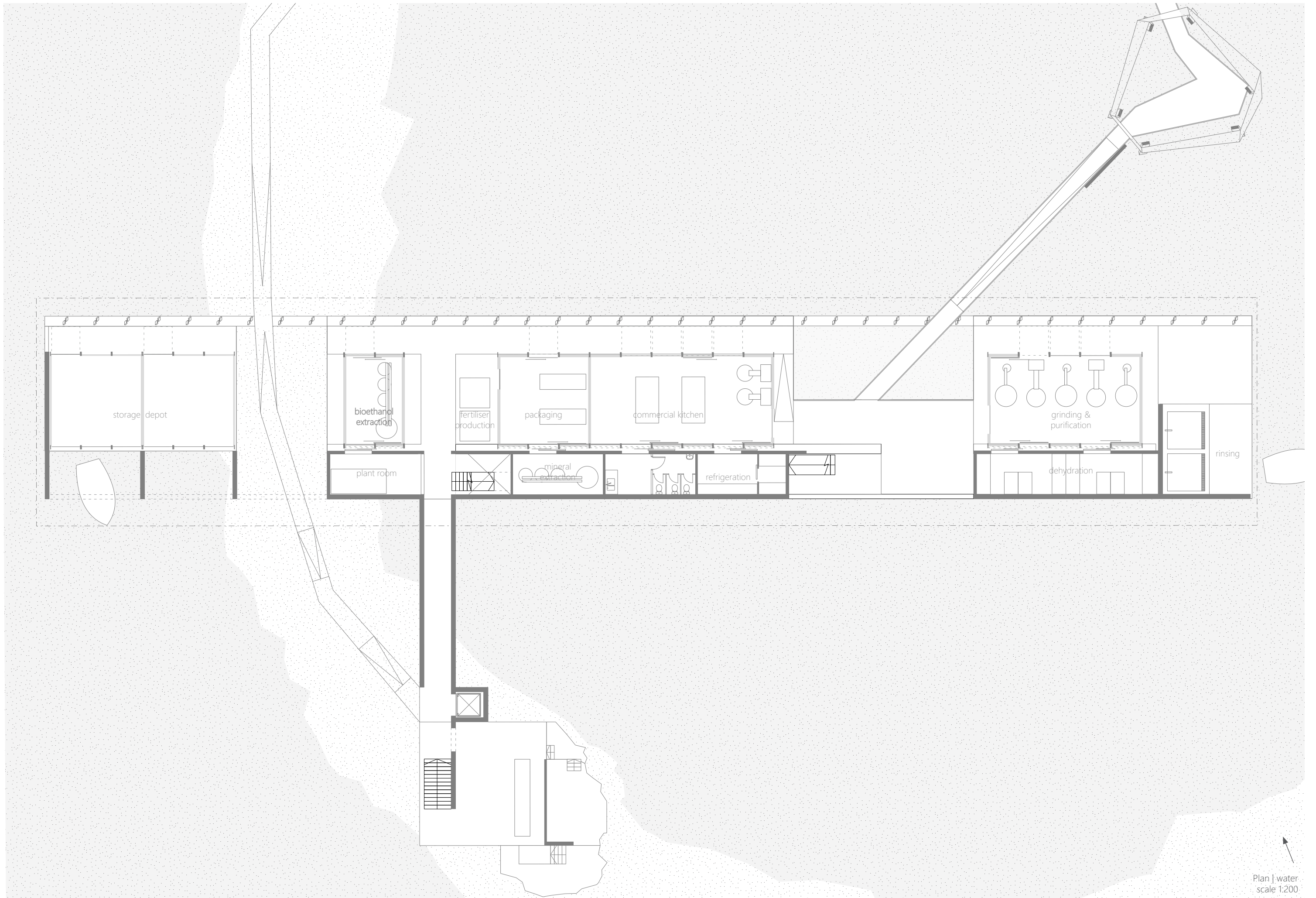
- plans
- sections
- elevations



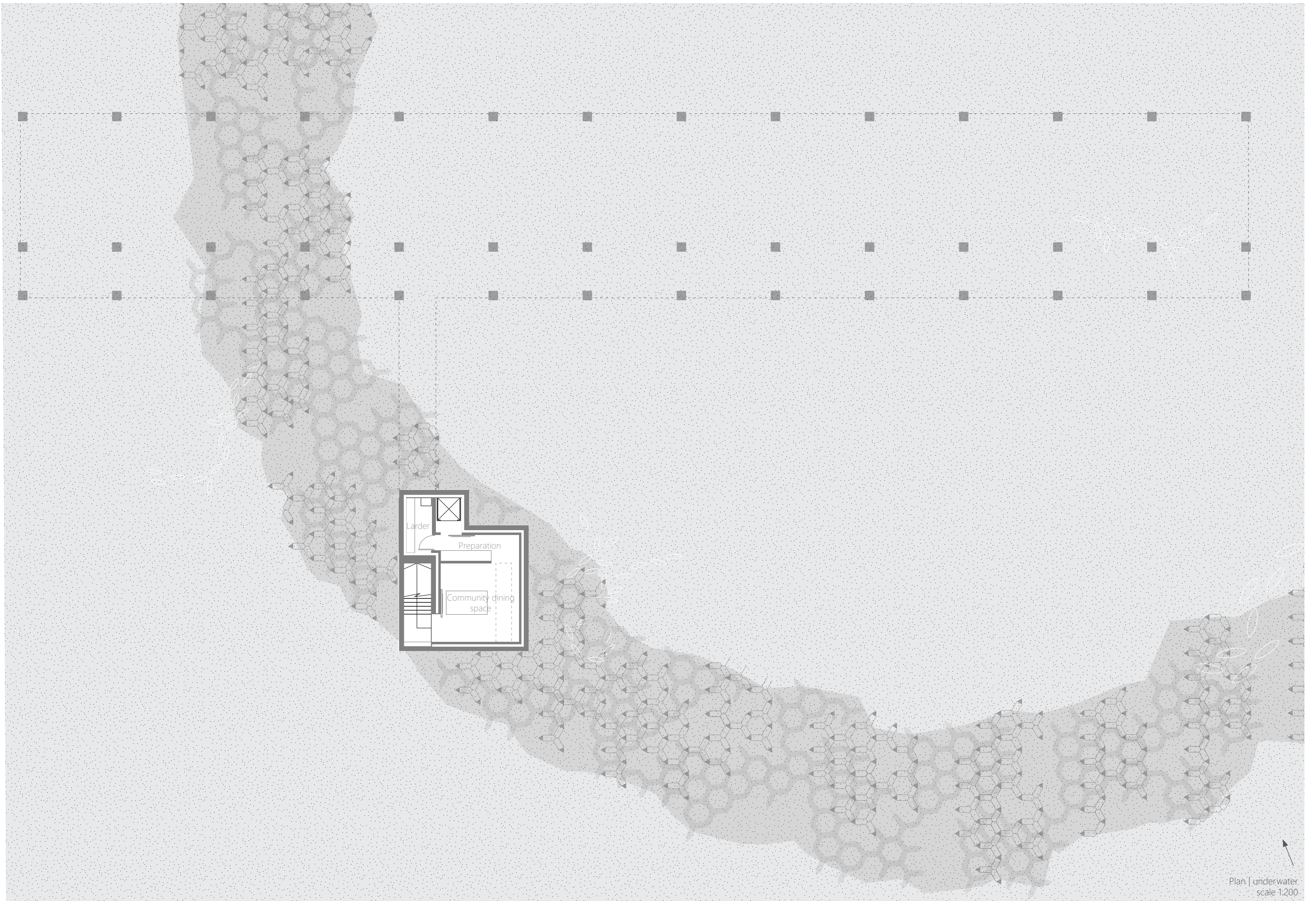


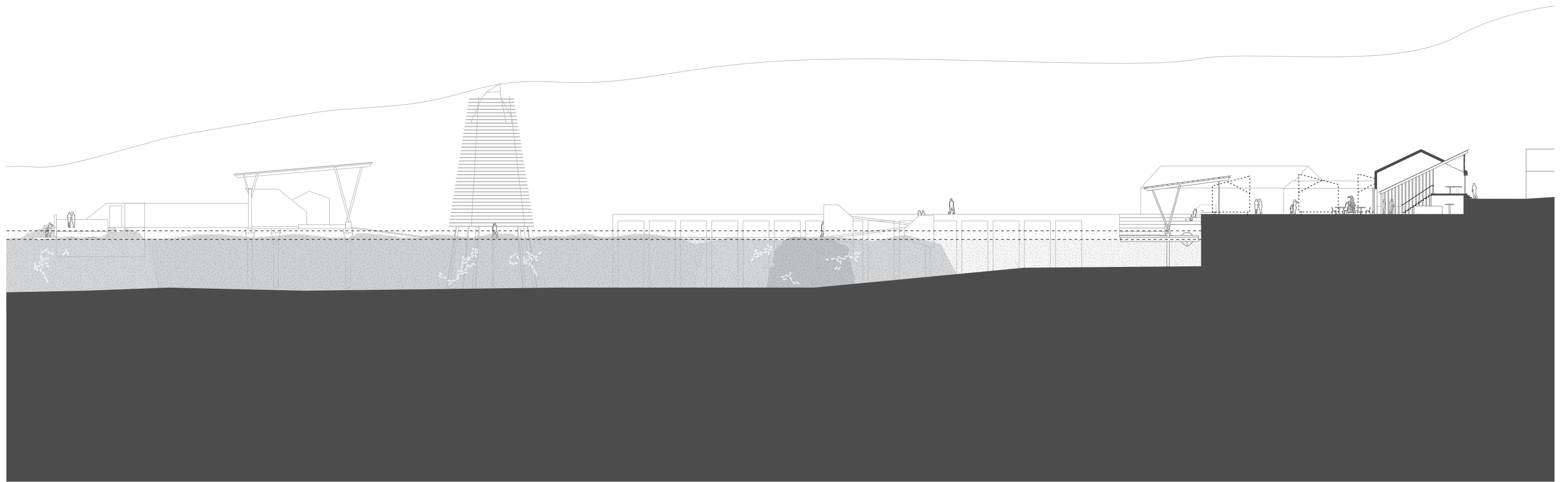
Plan | sea level |  
scale 1:500

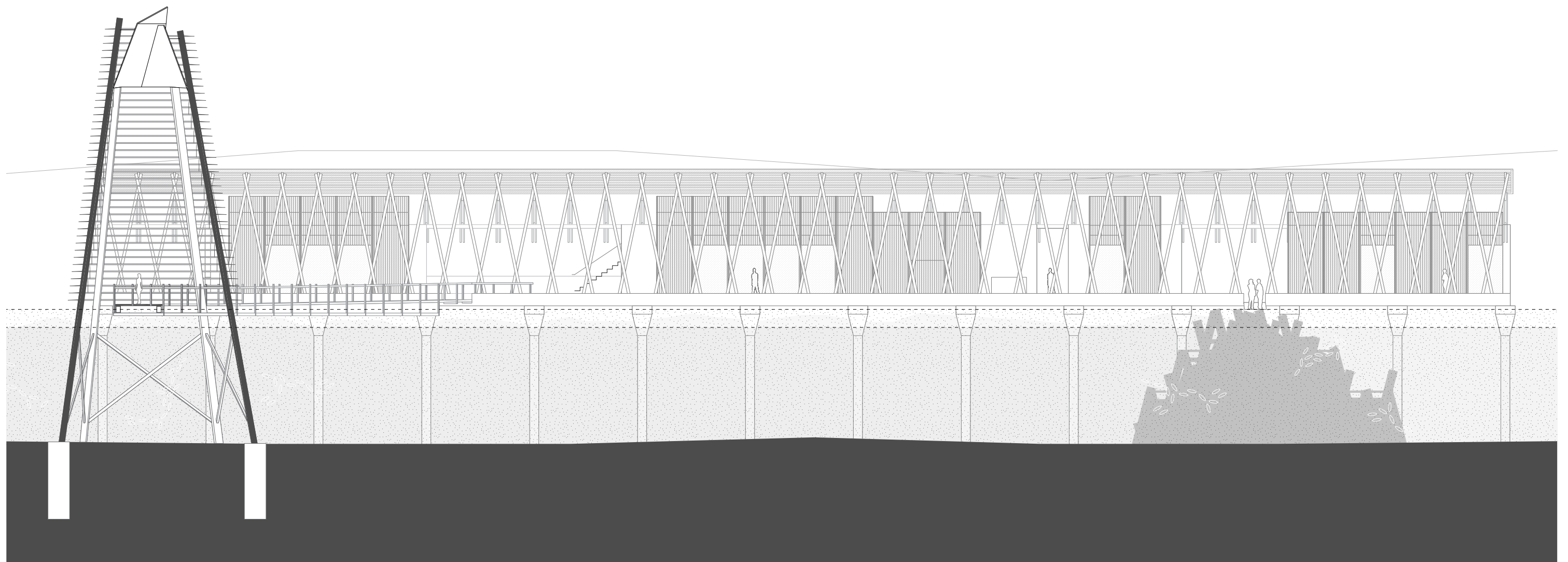


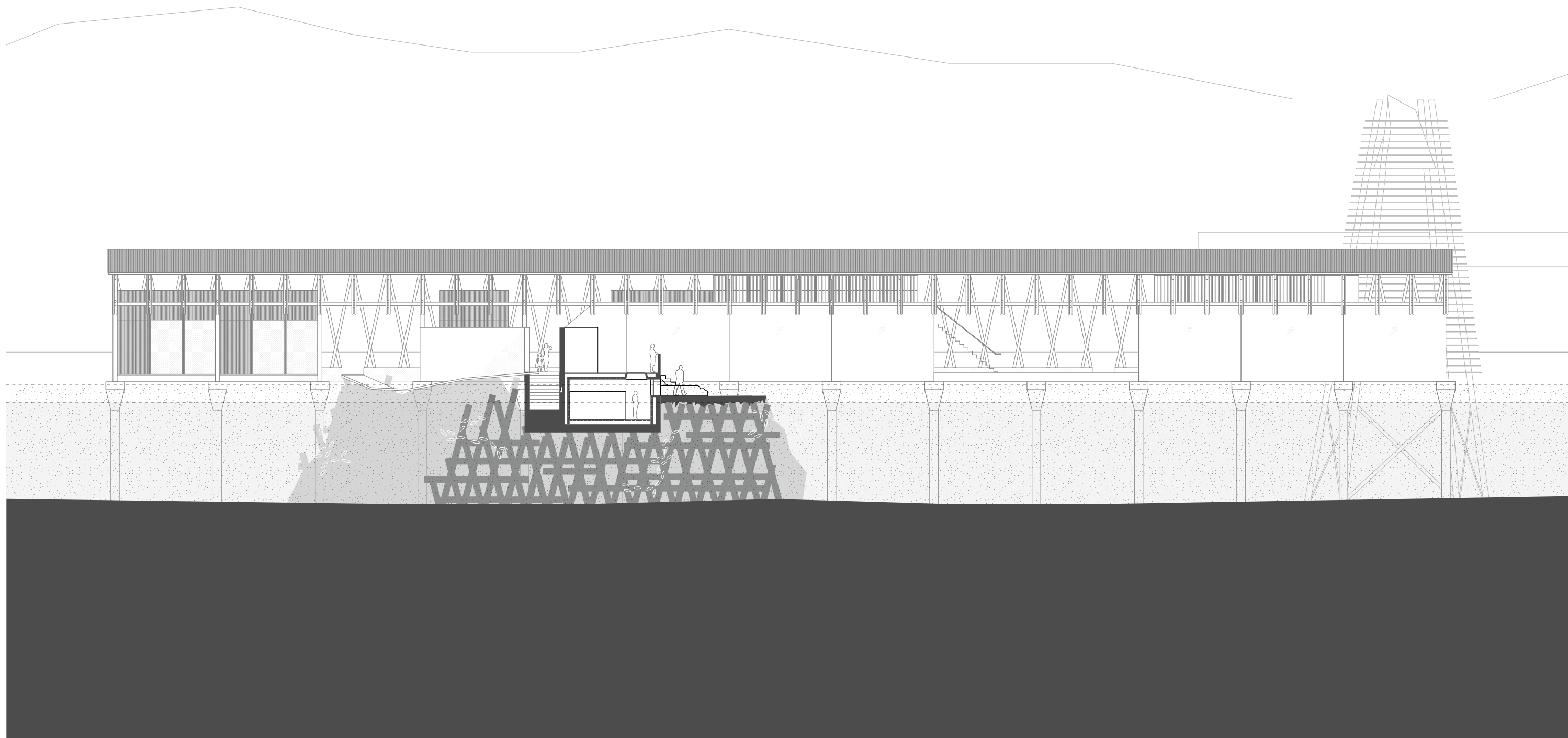


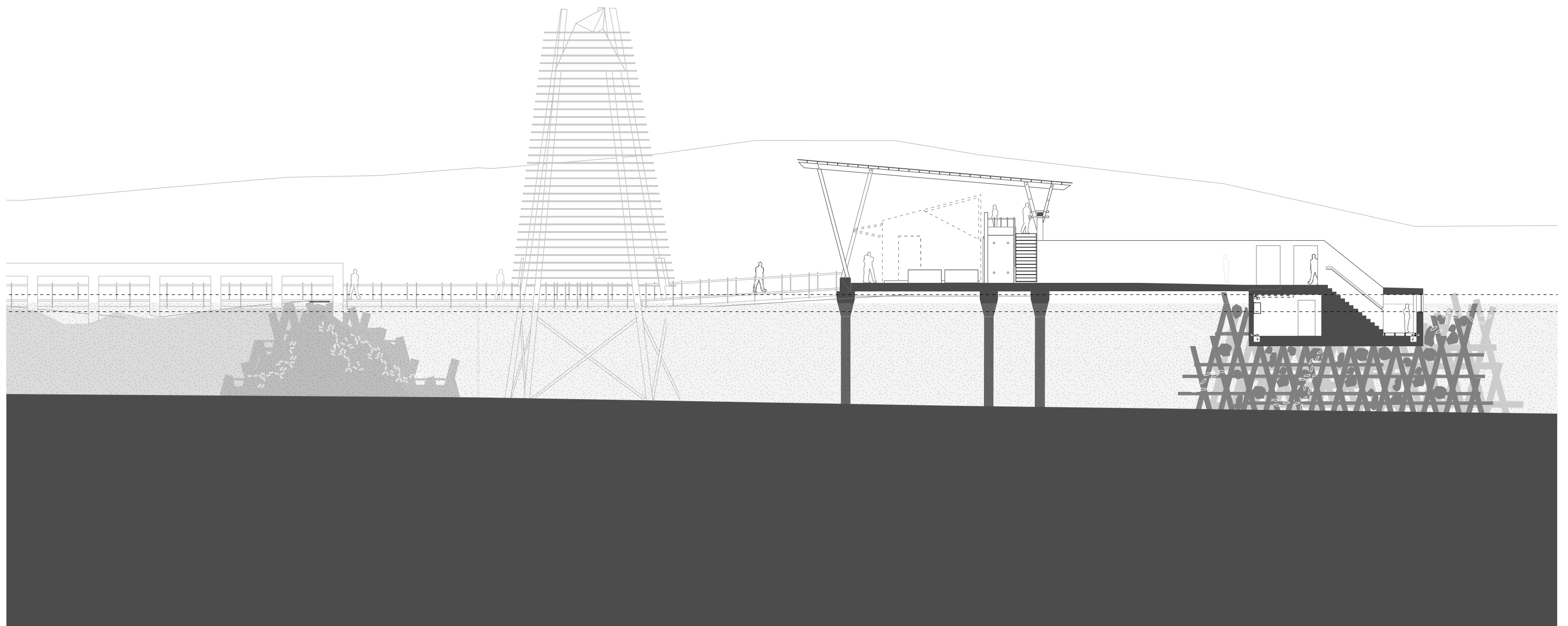






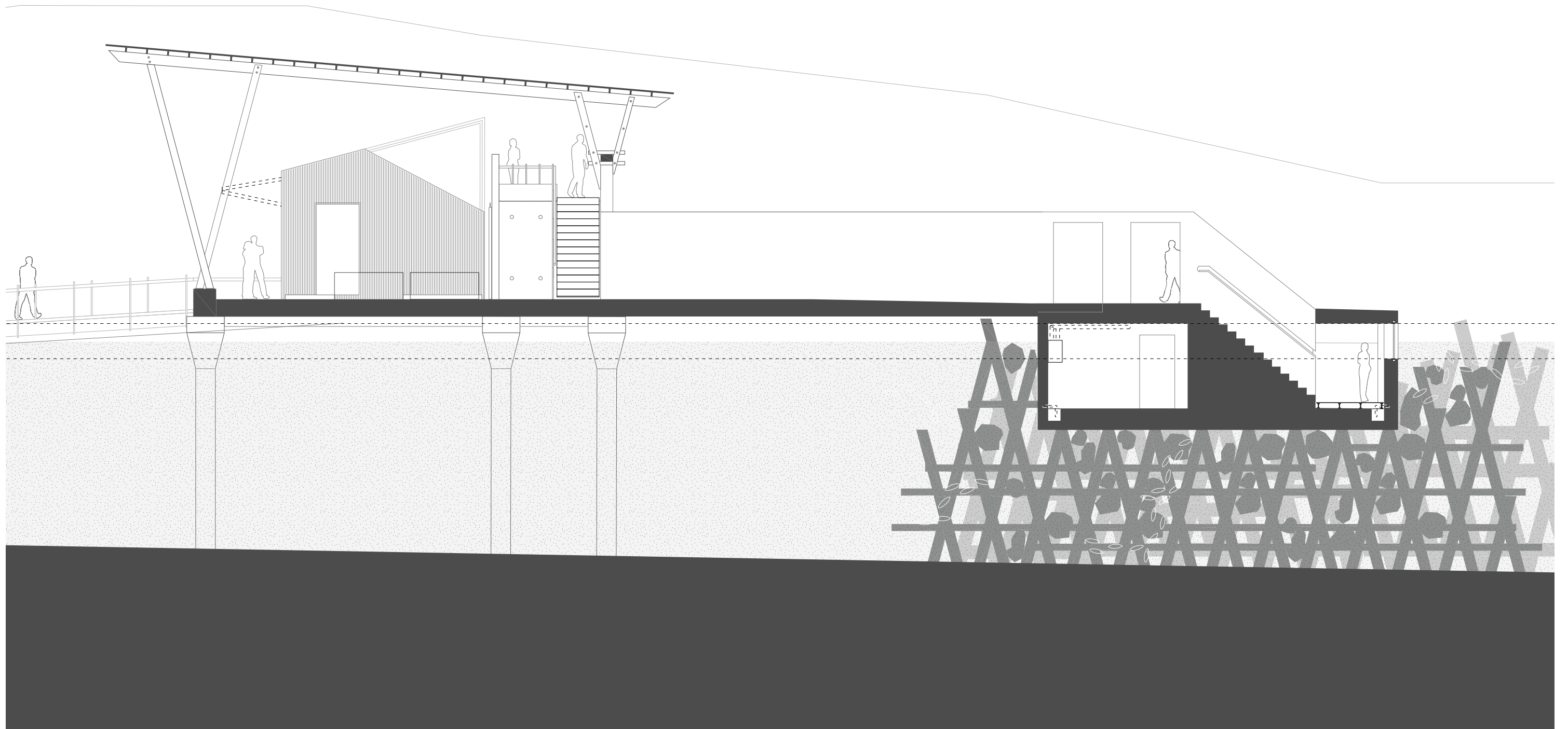






Section D | connection to teahouse  
scale 1:200

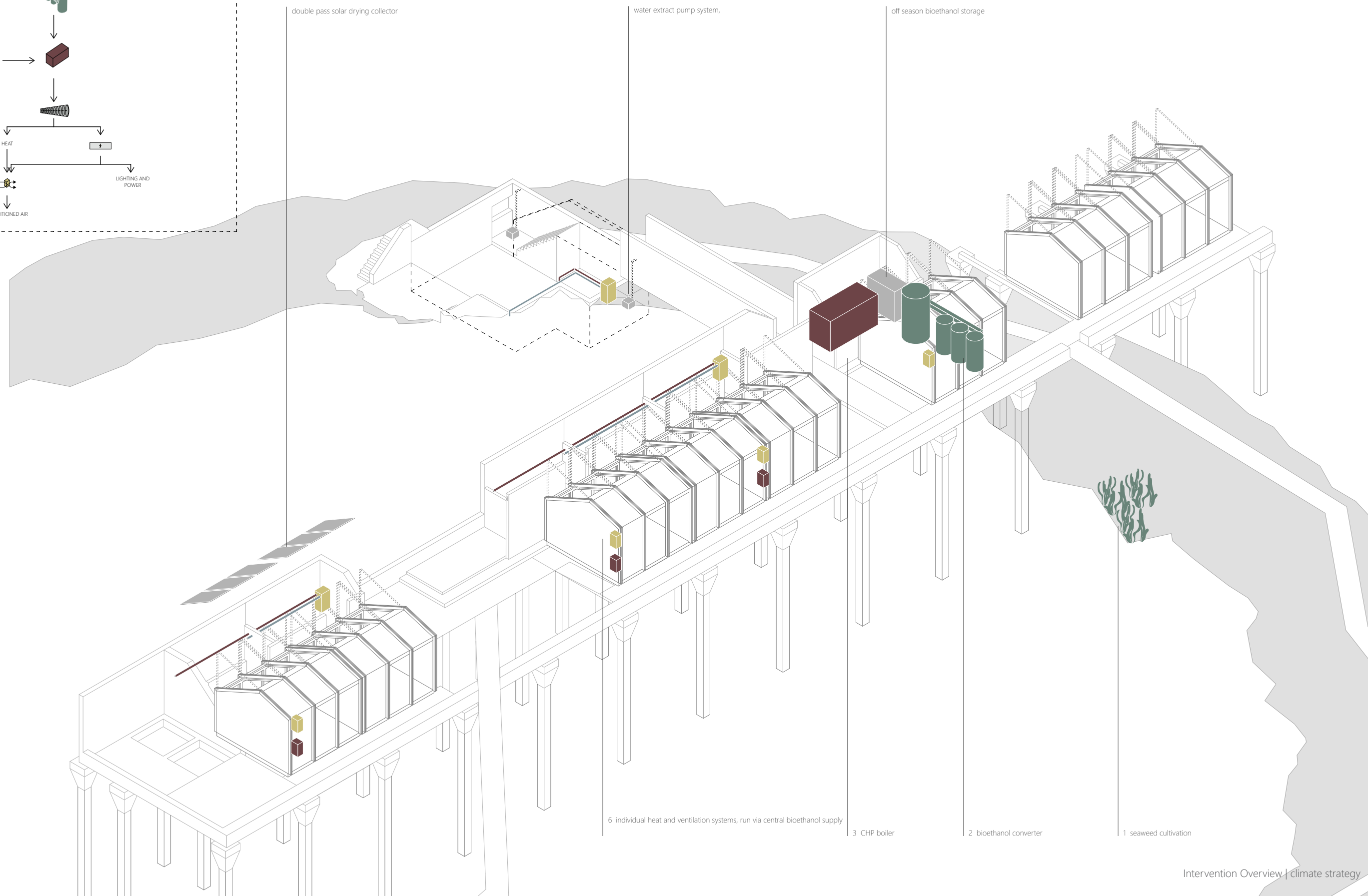
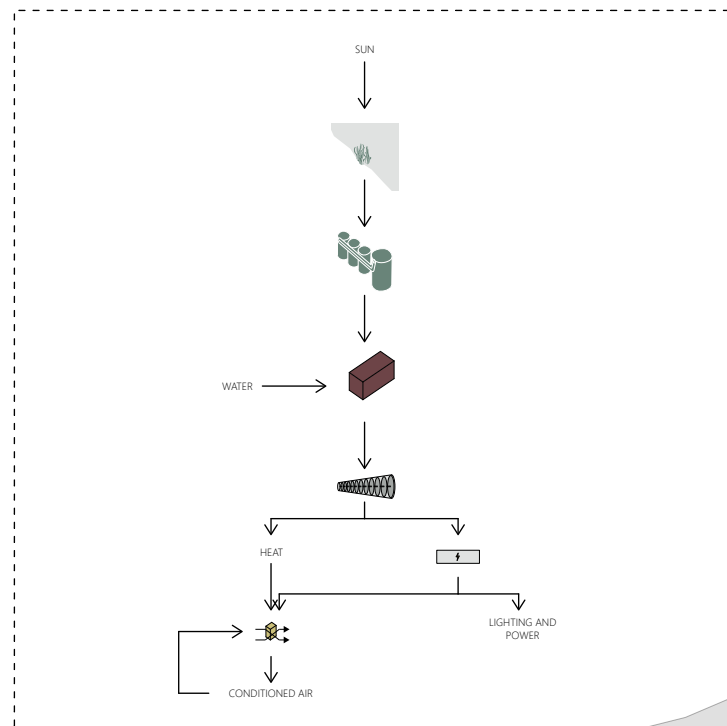


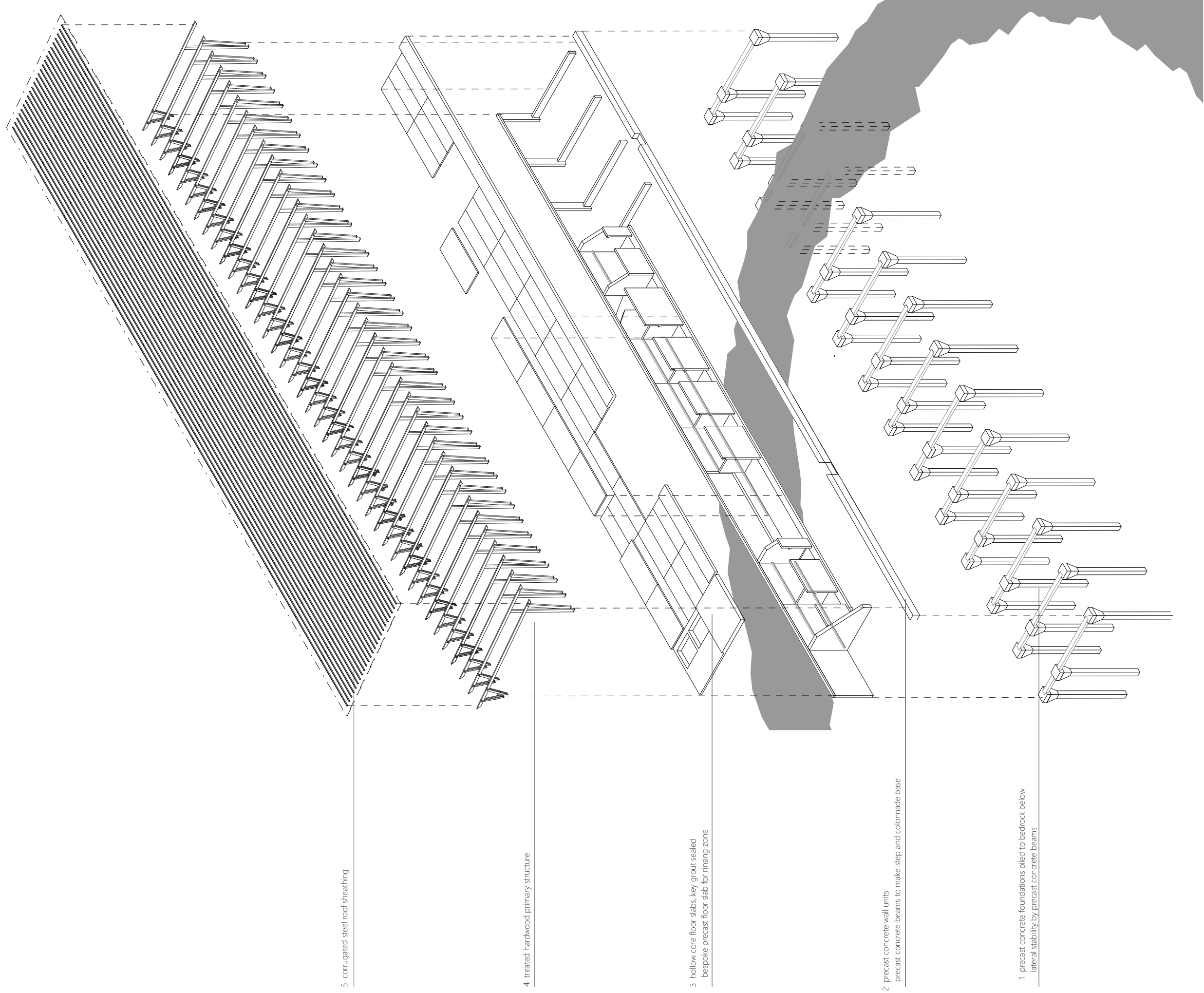




### 3/ Construction

- energy & climate strategy
- structural strategy | processing
- details | processing
- structural strategy | teahouse
- details | teahouse





5 corrugated steel roof sheathing

4 treated hardwood primary structure

3 hollow core floor slabs, key grout sealed  
bespoke precast floor slab for rising zone

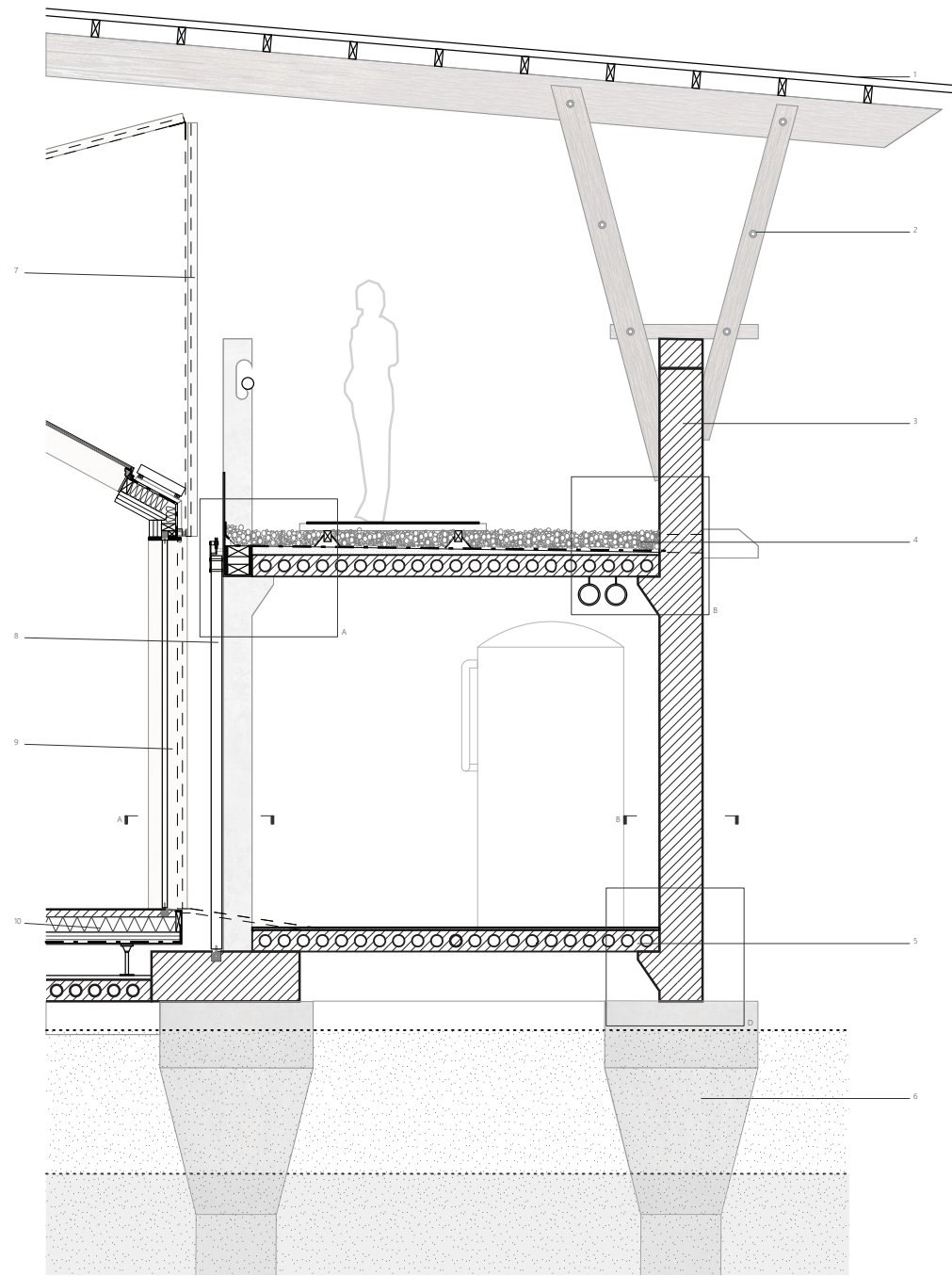
2 precast concrete wall units  
precast concrete beams to make step and colonnade base

1 precast concrete foundations piled to bedrock below  
lateral stability by precast concrete beams

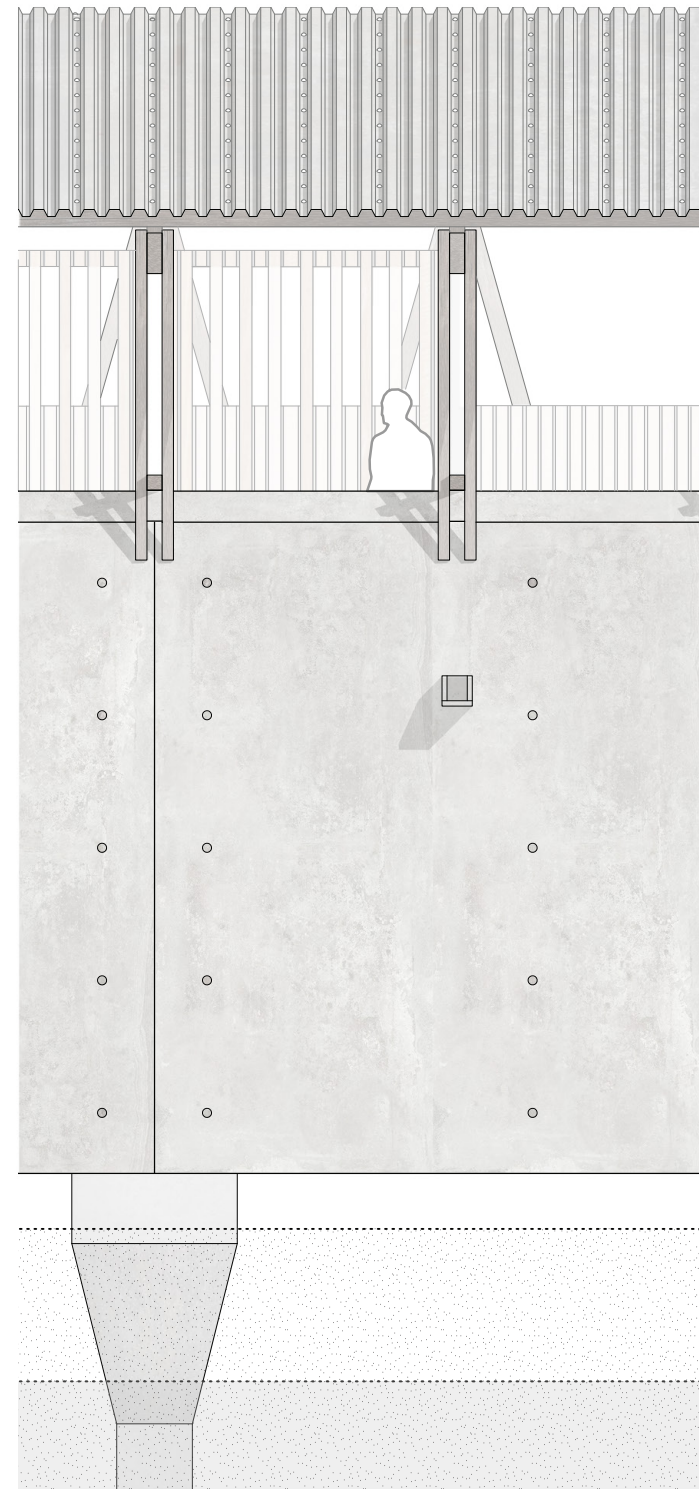




Processing | internal elevation  
scale 1:20 @A0

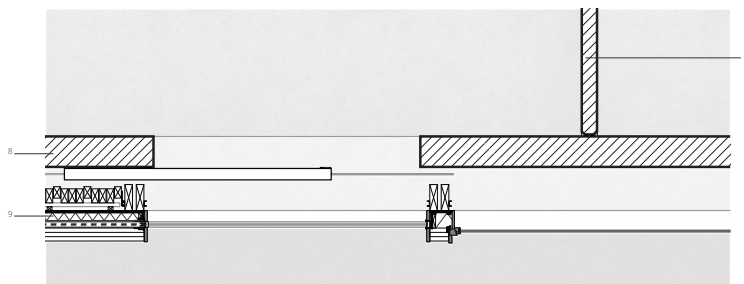


Processing | key section  
scale 1:20 @A0

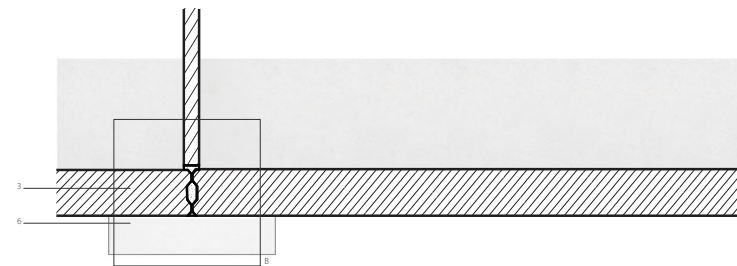


Processing | external elevation  
scale 1:20 @A0

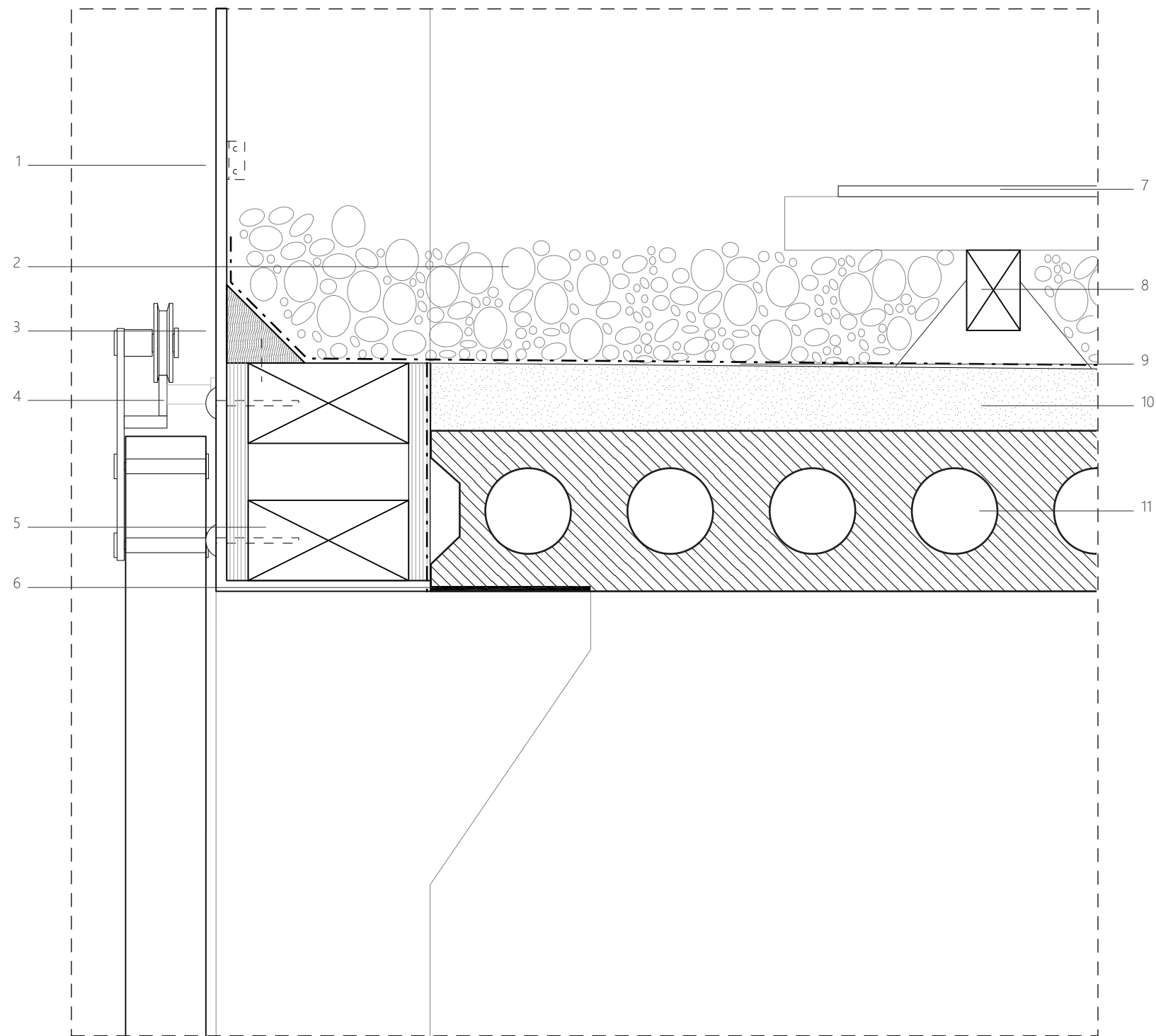
- 1 corrugated steel roofing  
50mm x 100mm timber battens  
galvanised steel fixings @ 400 centres
- 2 treated hardwood timber roof structure with exposed bolted connections
- 3 precast concrete wall panel, exposed on both faces
- 4 precast concrete floor build up  
precast hollow core floor slab, exposed underside  
concrete screed laid to falls  
bituminous roof membrane  
loose pebble bed drainage layer  
10mm galvanised steel walkway on timber mortar bedded supports
- 5 precast hollow core floor build up
- 6 precast concrete foundation pile, driven to bedrock below
- 7 foldable timber shutter
- 8 overhead sliding door
- 9 prefab CLT timber unit  
exposed CLT wall panel  
150mm rigid wood fibre insulation layer  
damp proof membrane  
2 layers 25mm x 32mm battens  
75mm x 45mm timber batten vertical cladding
- 10 prefab CLT raised floor  
5mm black rubber finish  
75mm CLT structural floor panel  
150mm rigid insulation  
75mm screed finish



Processing | plan fragment  
scale 1:20 @A0

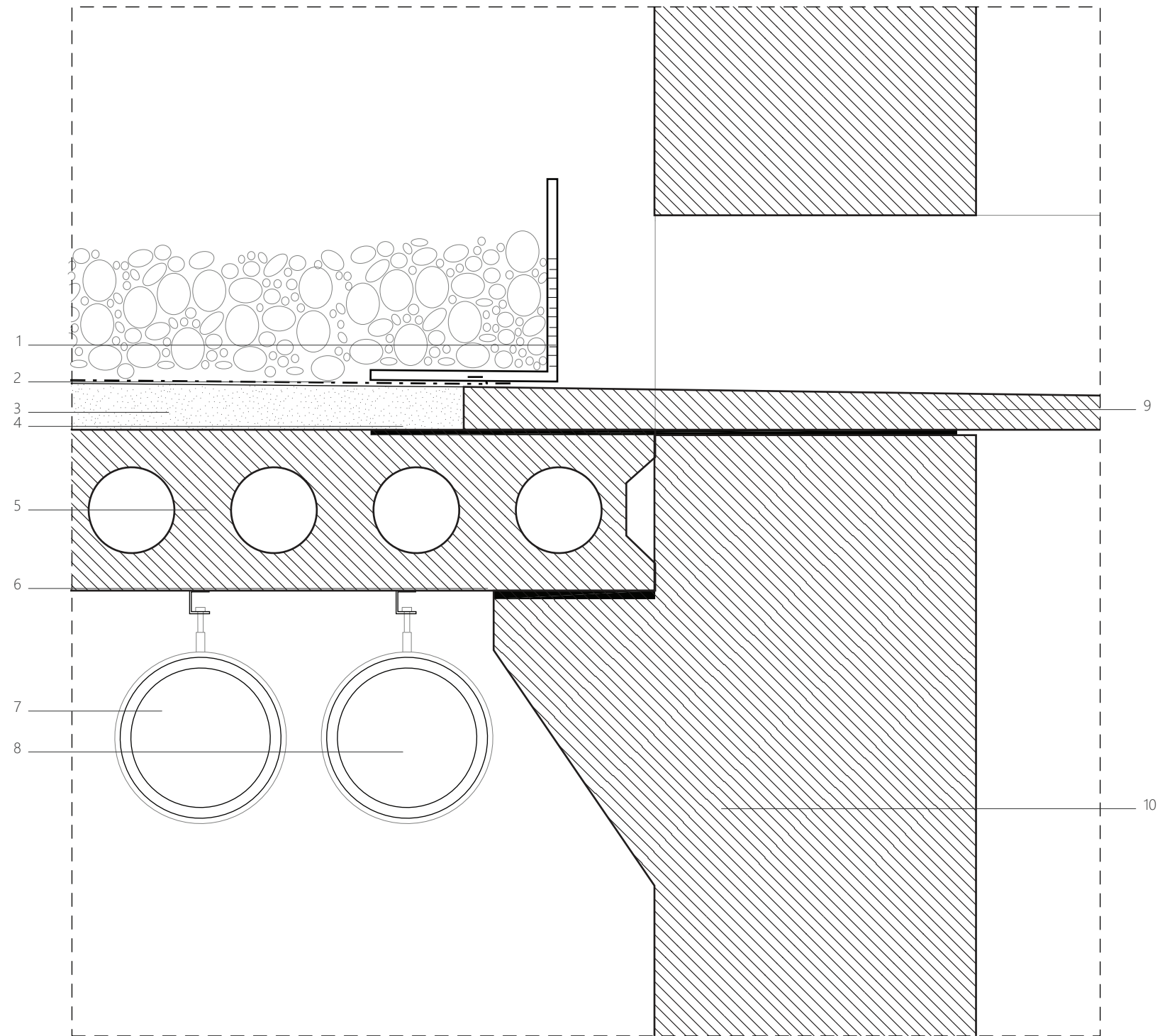


Processing | plan fragment  
scale 1:20 @A0



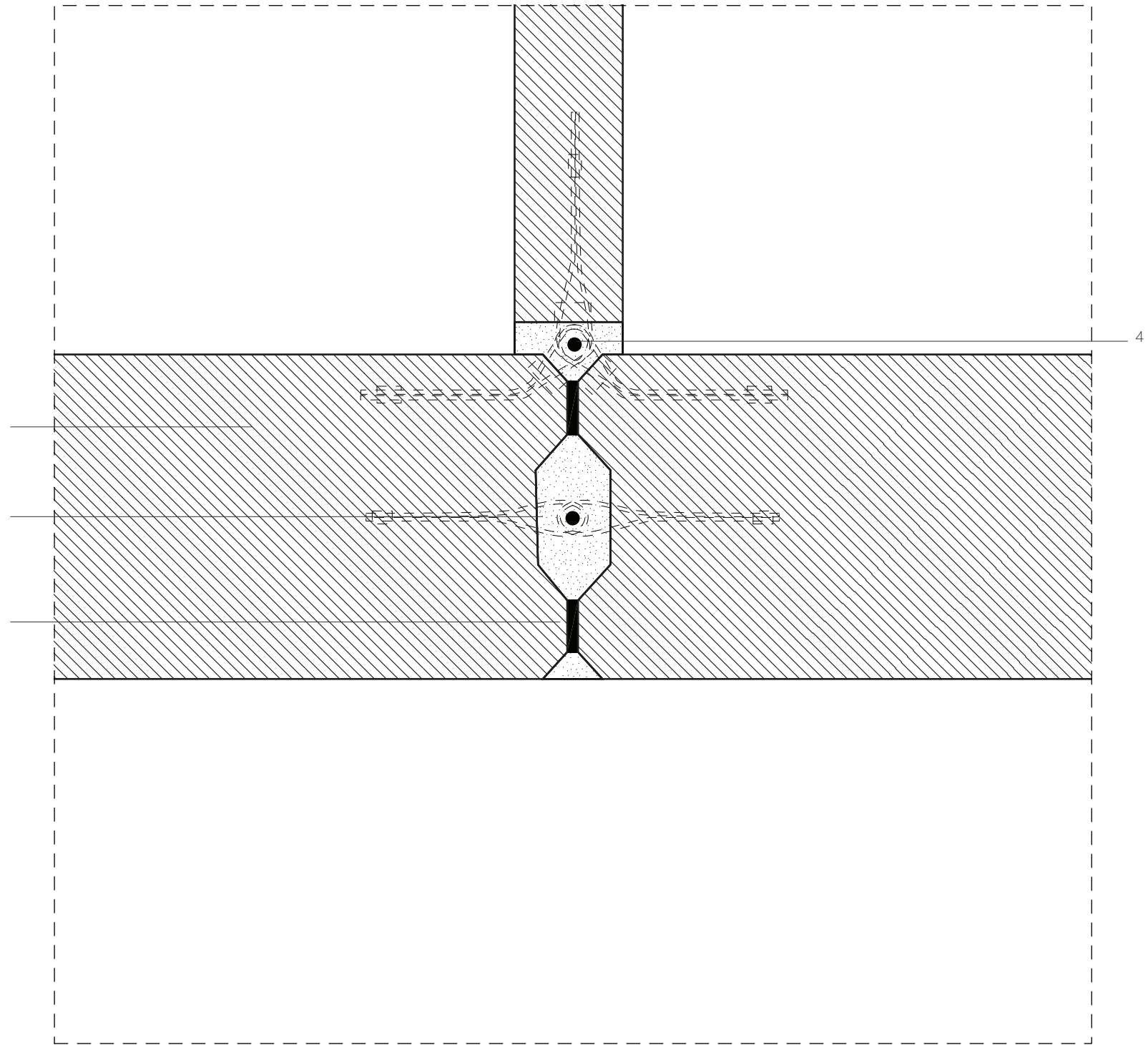
Processing | Detail A - internal wall-floor & door head  
scale 1:5

- 1 10mm brushed brass sheet angle
- 2 loose pebble drainage layer
- 3 timber fillet angle
- 4 overhead rail for sliding door, stainless steel
- 5 timber substructure spans between precast concrete walls
- 6 rubber bearing strip
- 7 10mm galvanised steel sheet walkway
- 8 25mm x 50mm timber walkway support on cement bedding
- 9 bituminous roof felt water proofing layer
- 10 screed layer laid to falls, 1:40
- 11 exposed precast hollow core ceiling slab



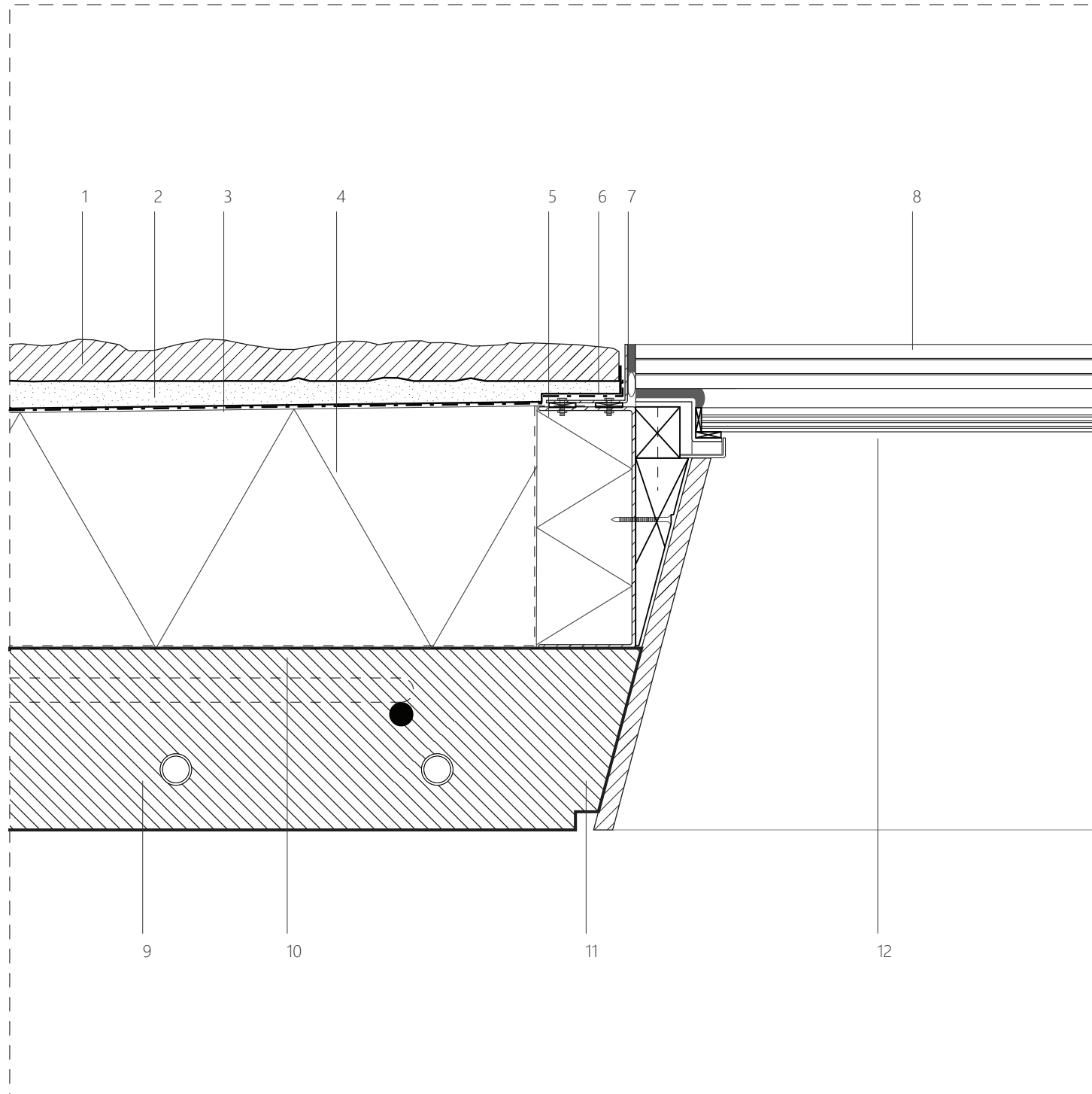
Processing | Detail B - roof parapet drainage detail  
scale 1:5

- 1 stainless steel gravel stop
- 2 bituminous roof membrane to lap drainage joint
- 3 screed layer laid to falls, 1:40
- 4 rubber bearing strip
- 5 precast hollow core floor slab
- 6 rubber bearing strip
- 7 MVHR intake duct
- 8 MVHR outtake duct
- 9 precast concrete drainage chute
- 10 precast concrete wall unit



Processing | Detail C - external wall joint - plan  
scale 1:5

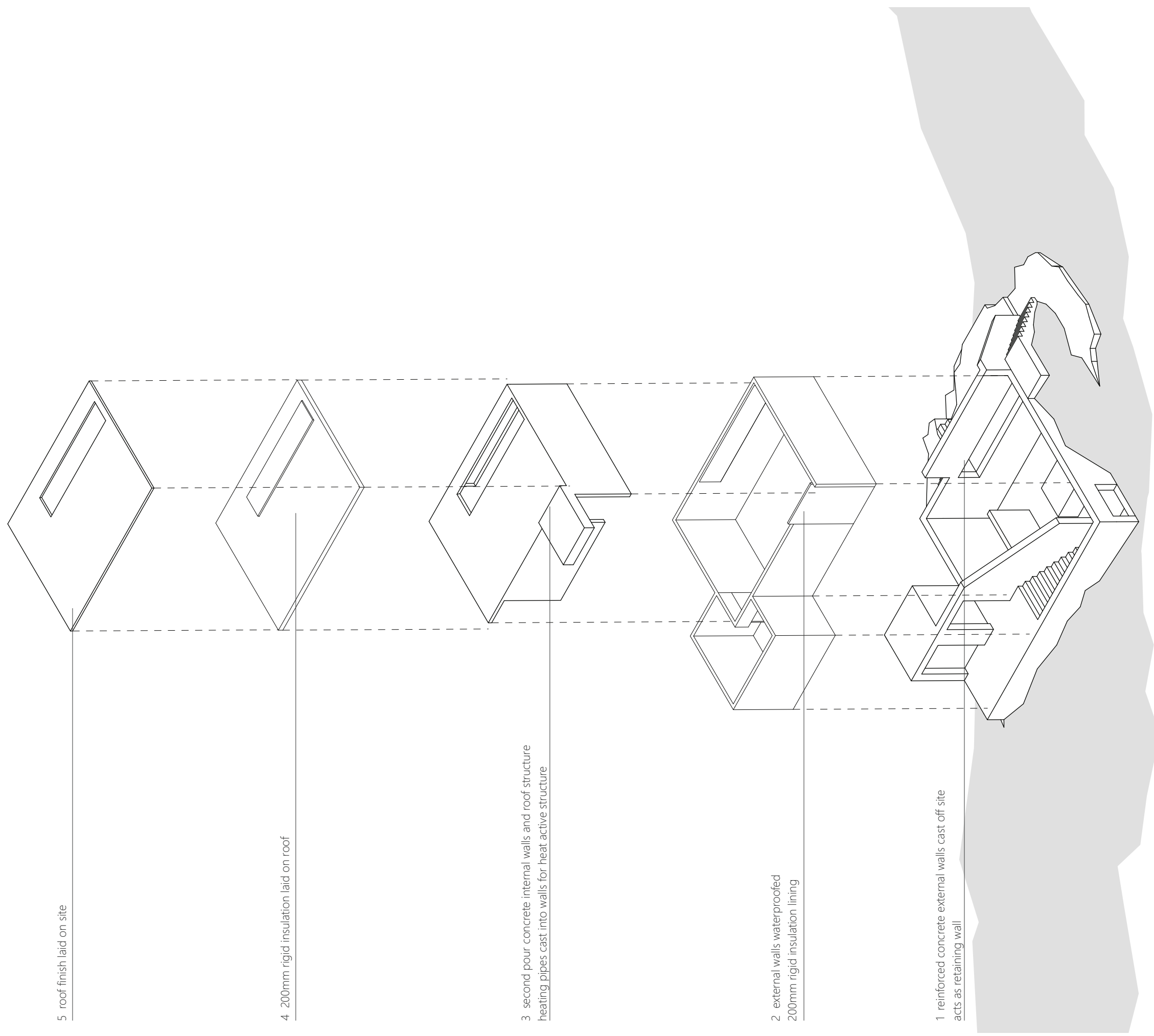
- 1 precast concrete wall unit
- 2 wire loop connection, cast into concrete wall with 12mm rebar connection
- 3 rubber bearing strip at joint
- 5 shear key grout joint



Teahouse | Detail A - roof window  
scale 1:5

- 1 grey shetland stone paver
- 2 coarse sand drainage layer
- 3 bituminous waterproof roof membrane
- 4 200mm rigid insulation, laid to falls
- 5 steel C section with rigid insulation
- 6 ceramic fibre bedding around window perimeter
- 7 silicone seal with black painted band to conceal
- 8 37mm triple layered structural glass
- 9 heat activated exposed concrete ceiling
- 10 vapour control layer
- 11 angled white plasterboard finish
- 12 double glazed glass





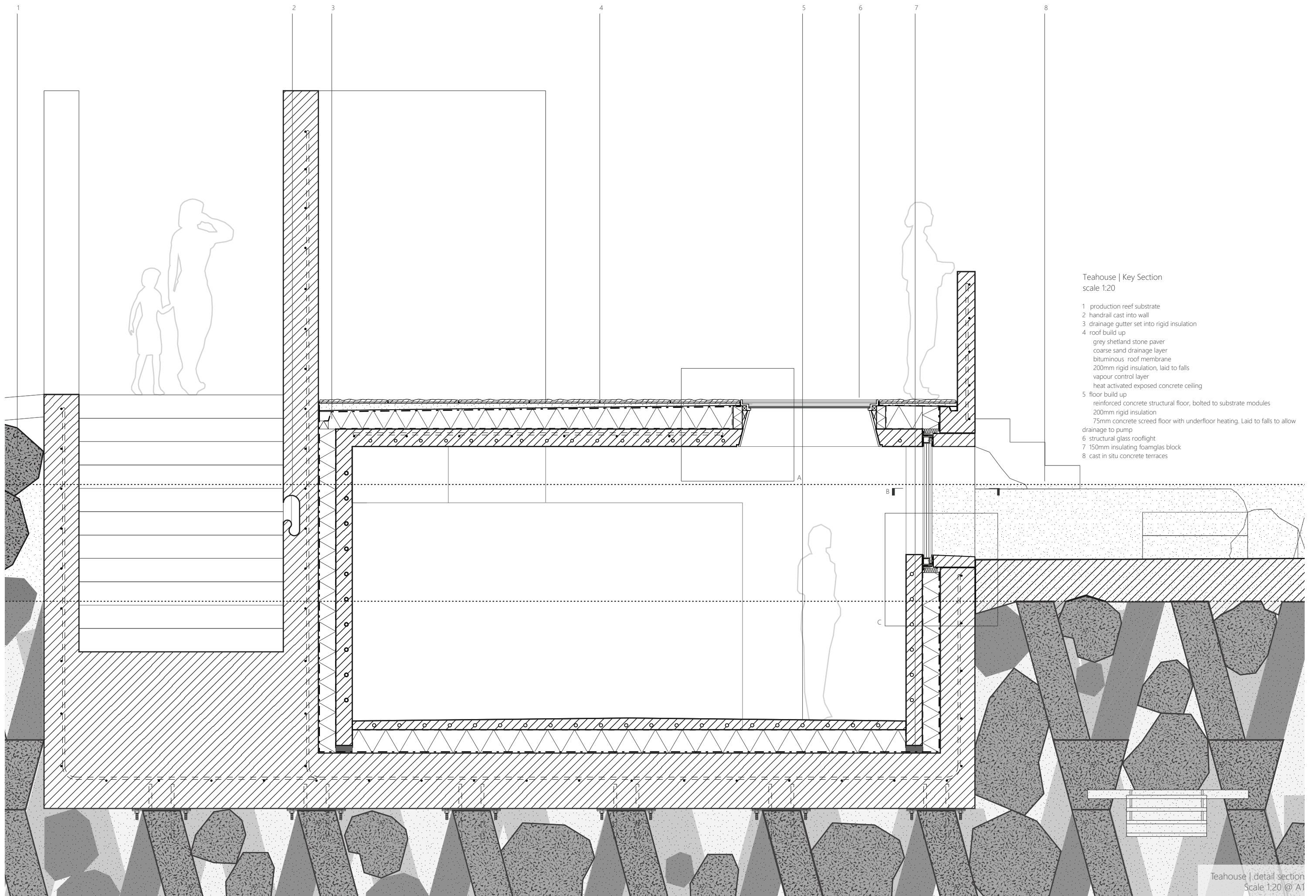
5 roof finish laid on site

4 200mm rigid insulation laid on roof

3 second pour concrete internal walls and roof structure  
heating pipes cast into walls for heat active structure

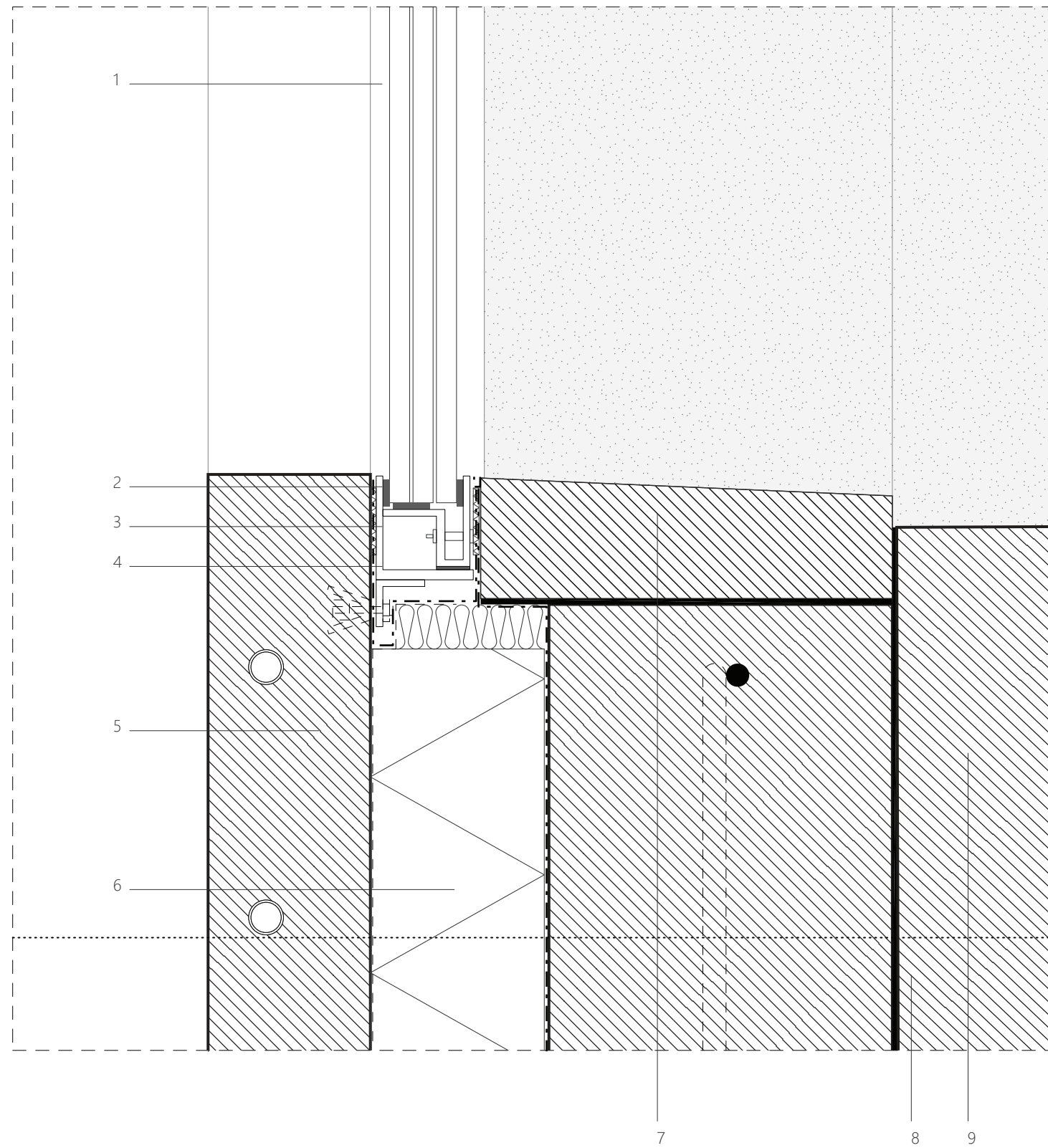
2 external walls waterproofed  
200mm rigid insulation lining

1 reinforced concrete external walls cast off site  
acts as retaining wall



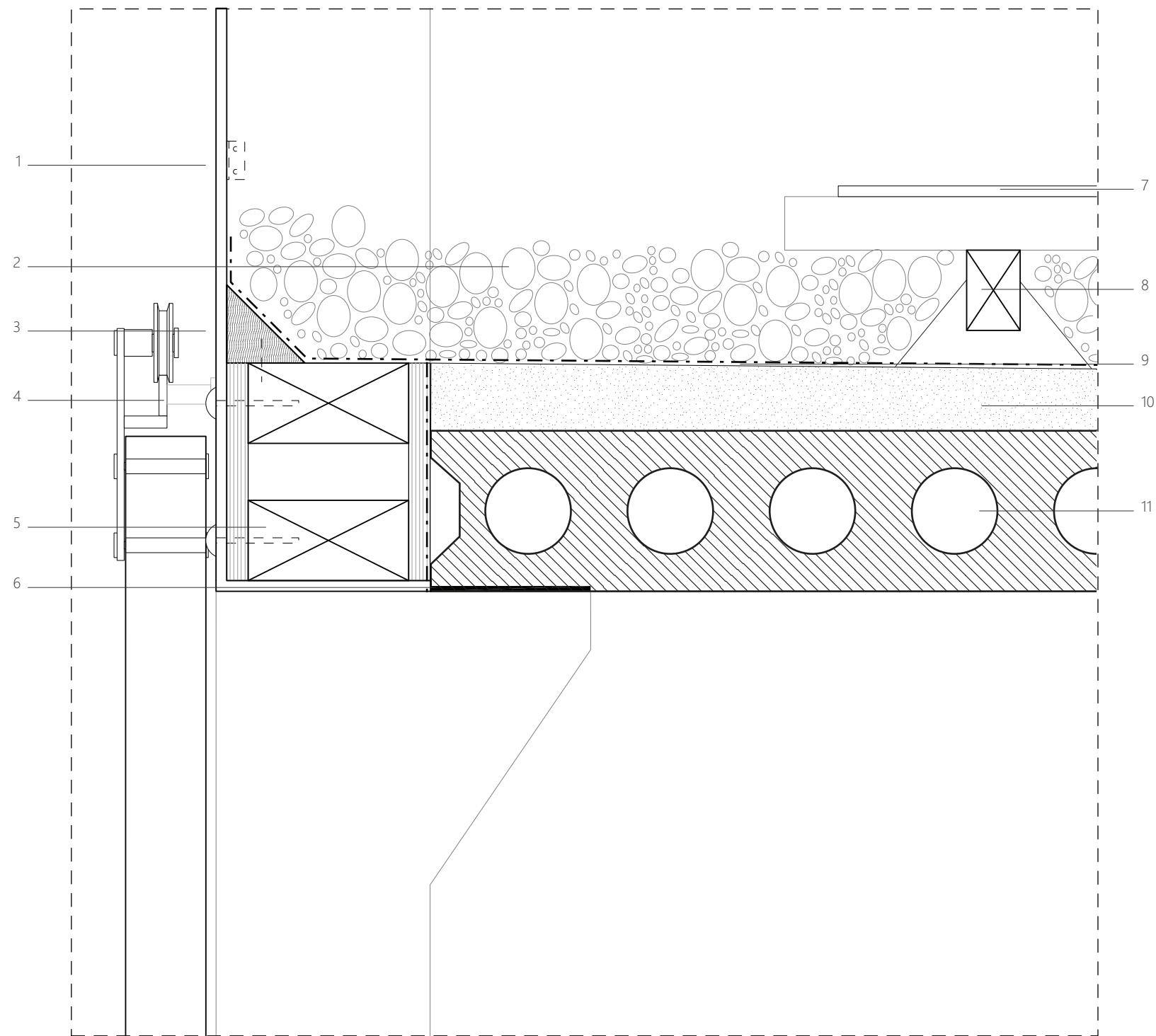
Teahouse | Key Section  
scale 1:20

- 1 production reef substrate
- 2 handrail cast into wall
- 3 drainage gutter set into rigid insulation
- 4 roof build up
  - grey shetland stone paver
  - coarse sand drainage layer
  - bituminous roof membrane
  - 200mm rigid insulation, laid to falls
  - vapour control layer
  - heat activated exposed concrete ceiling
- 5 floor build up
  - reinforced concrete structural floor, bolted to substrate modules
  - 200mm rigid insulation
  - 75mm concrete screed floor with underfloor heating. Laid to falls to allow drainage to pump
- 6 structural glass rooflight
- 7 150mm insulating foamglas block
- 8 cast in situ concrete terraces



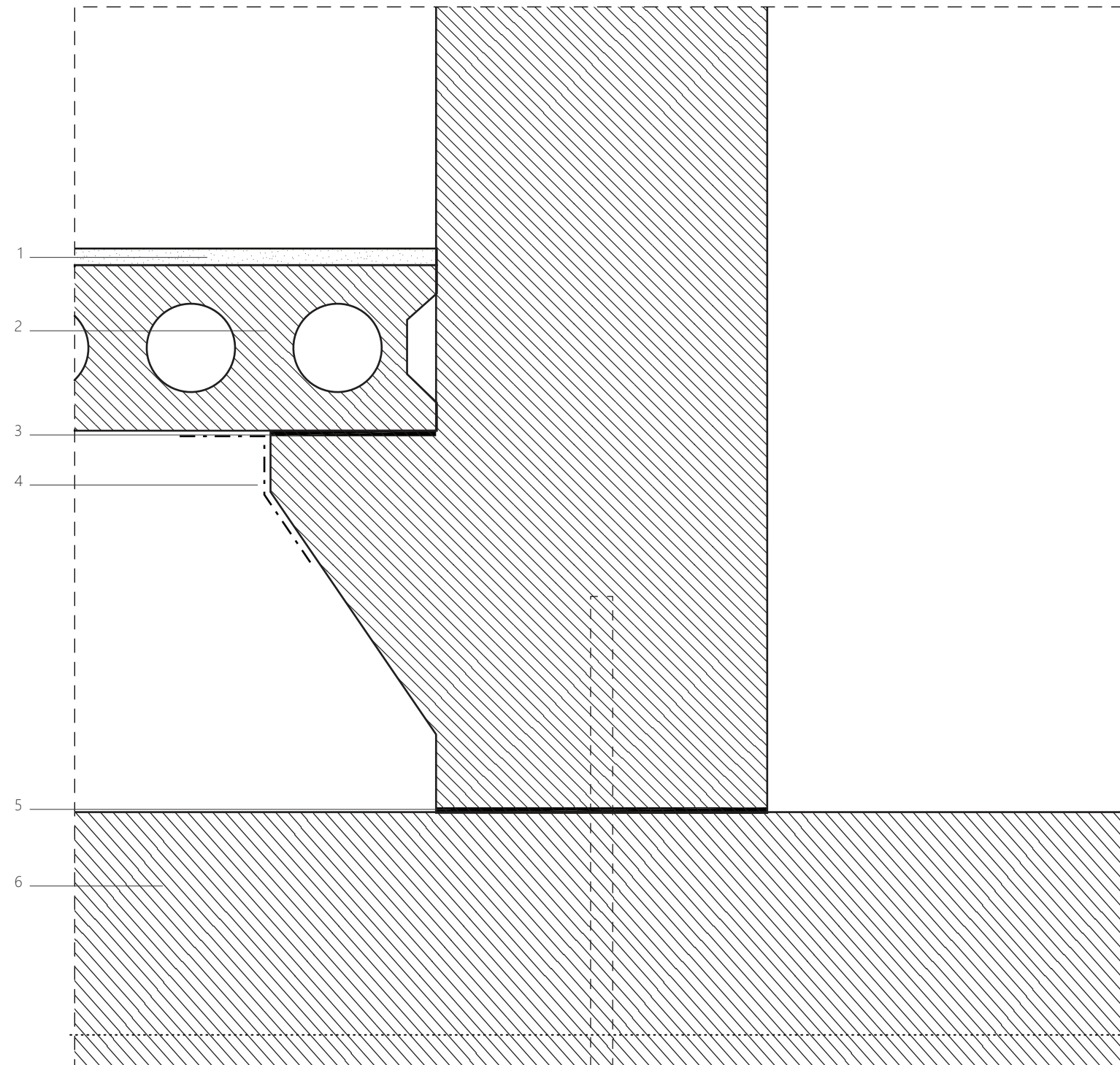
Teahouse | Detail B - window base  
scale 1:5

- 1 triple layer laminated safety glass
- 2 silicone compressive seal
- 3 stainless steel underwater window frame bolt anchored to concrete
- 4 waterproof membrane to lap around window frame
- 5 heat activated exposed concrete inner leaf
- 6 150mm rigid insulation
- 7 removable concrete tile, sloped to drain
- 8 bearing strip
- 9 cast in situ concrete terrace



Processing | Detail A - internal wall-floor & door head  
scale 1:5

- 1 10mm brushed brass sheet angle
- 2 loose pebble drainage layer
- 3 timber fillet angle
- 4 overhead rail for sliding door, stainless steel
- 5 timber substructure spans between precast concrete walls
- 6 rubber bearing strip
- 7 10mm galvanised steel sheet walkway
- 8 25mm x 50mm timber walkway support on cement bedding
- 9 bituminous roof felt water proofing layer
- 10 screed layer laid to falls, 1:40
- 11 exposed precast hollow core ceiling slab



Processing | Detail D - wall-foundation pile connection  
scale 1:5

- 1 75mm concrete topping
- 2 precastconcrete hollow core floor slab
- 3 rubber levelling strip
- 4 bituminous waterproof seal applied to precast concrete connections
- 5 stainless steel anchor bolt cast into foundation pile head
- 6 precast concrete foundation pile