

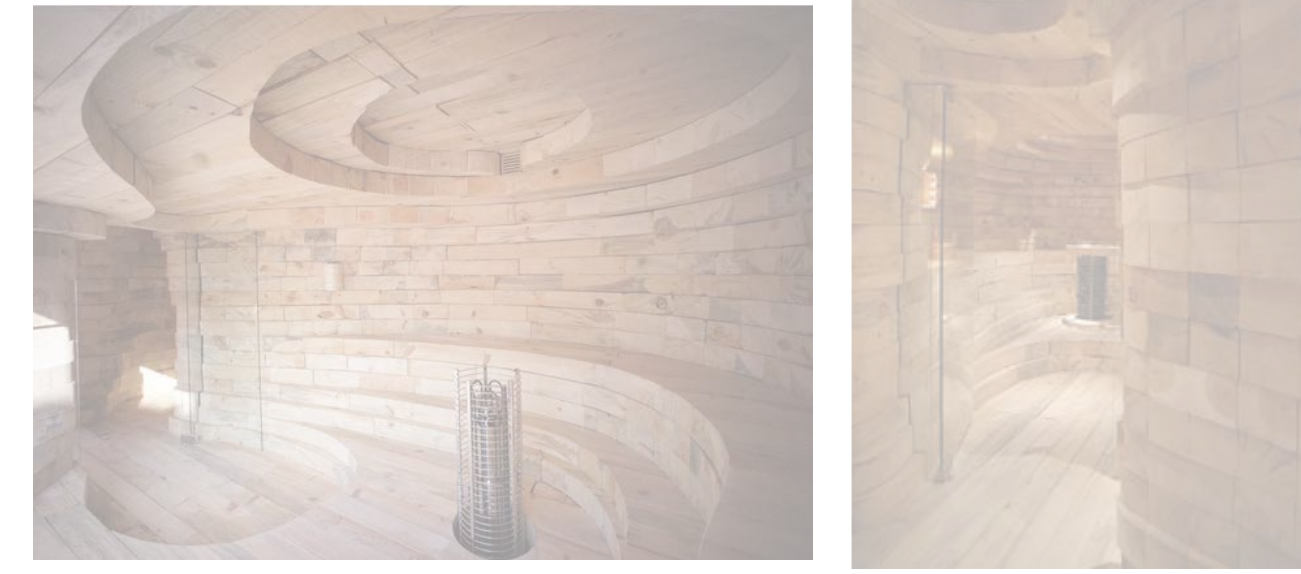
The surrounding landscape is used as inspiration where the curvilinear nature of the architecture follows the landscape for seamless integration, allowing the ecology to interact with the architecture.

SITE



PRECEDENTS

Sauna Kolo [Avanto architects]



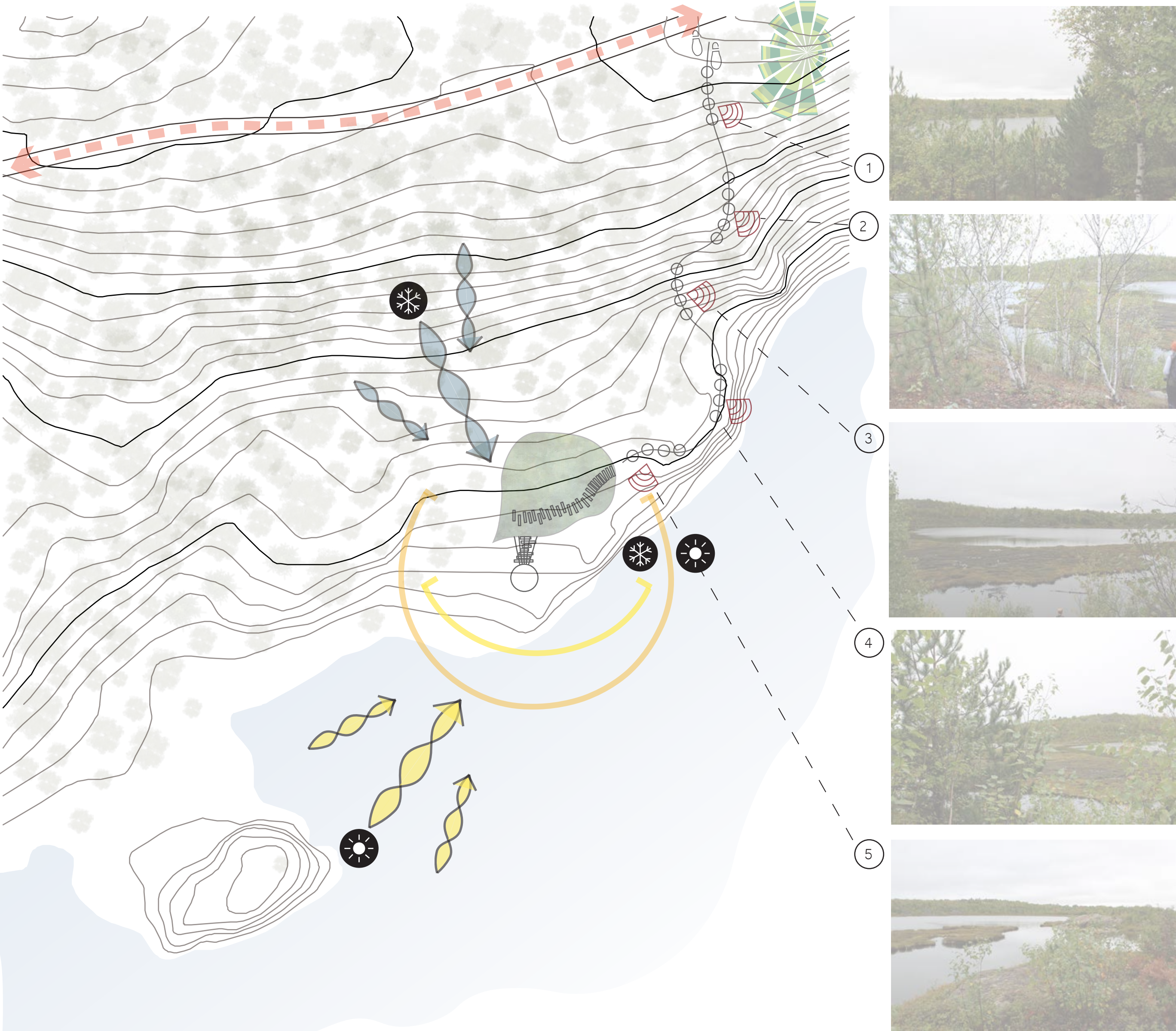
Maritime Youth House [P.L.O.T=BIG+JDS]



MATERIAL INSPIRATION



DESIGN ITERATIONS



SITE ANALYSIS 1:500

MAPPED PATH AND CORRESPONDING VIEWS

SAUNA EXTERIOR RENDER



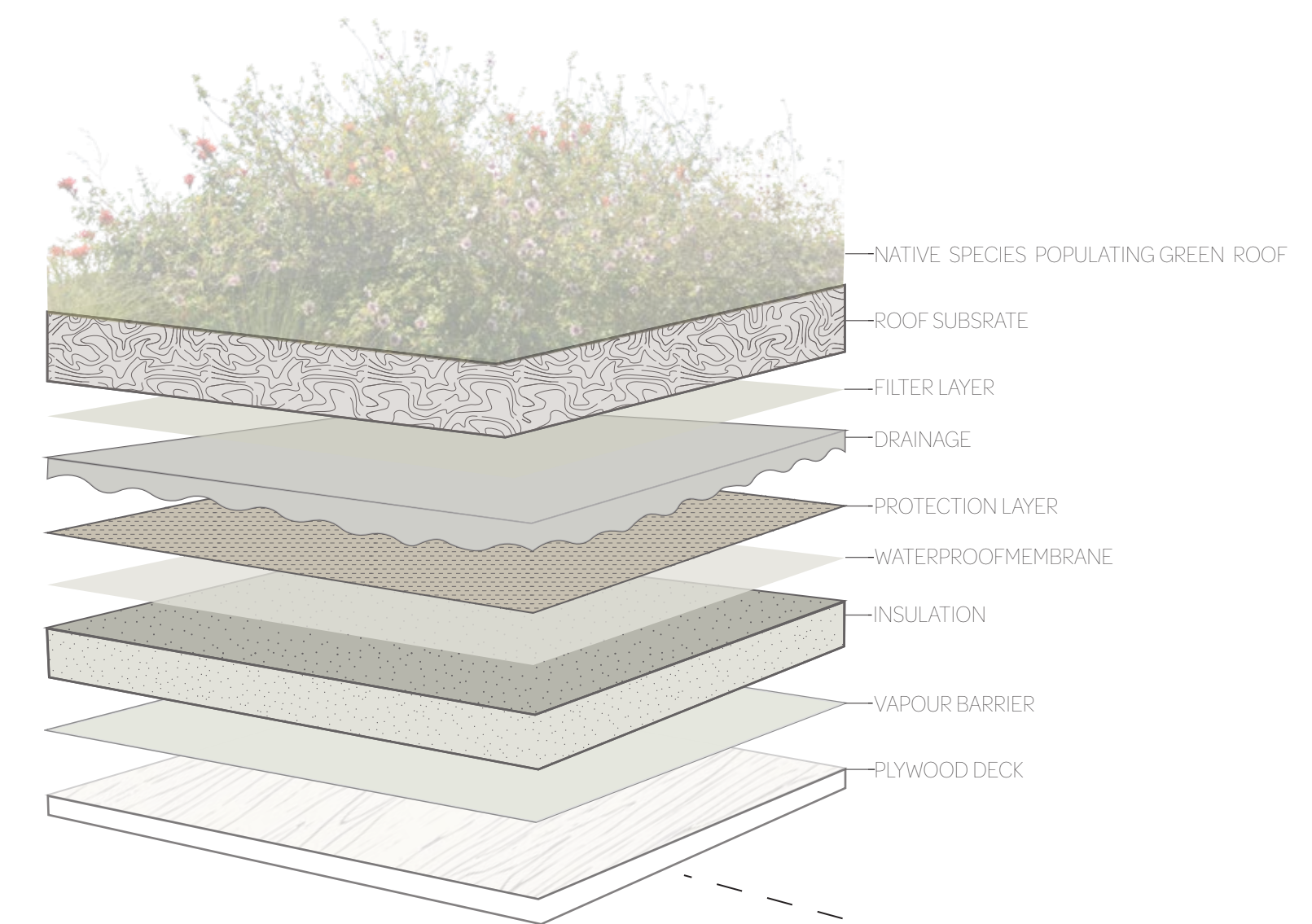
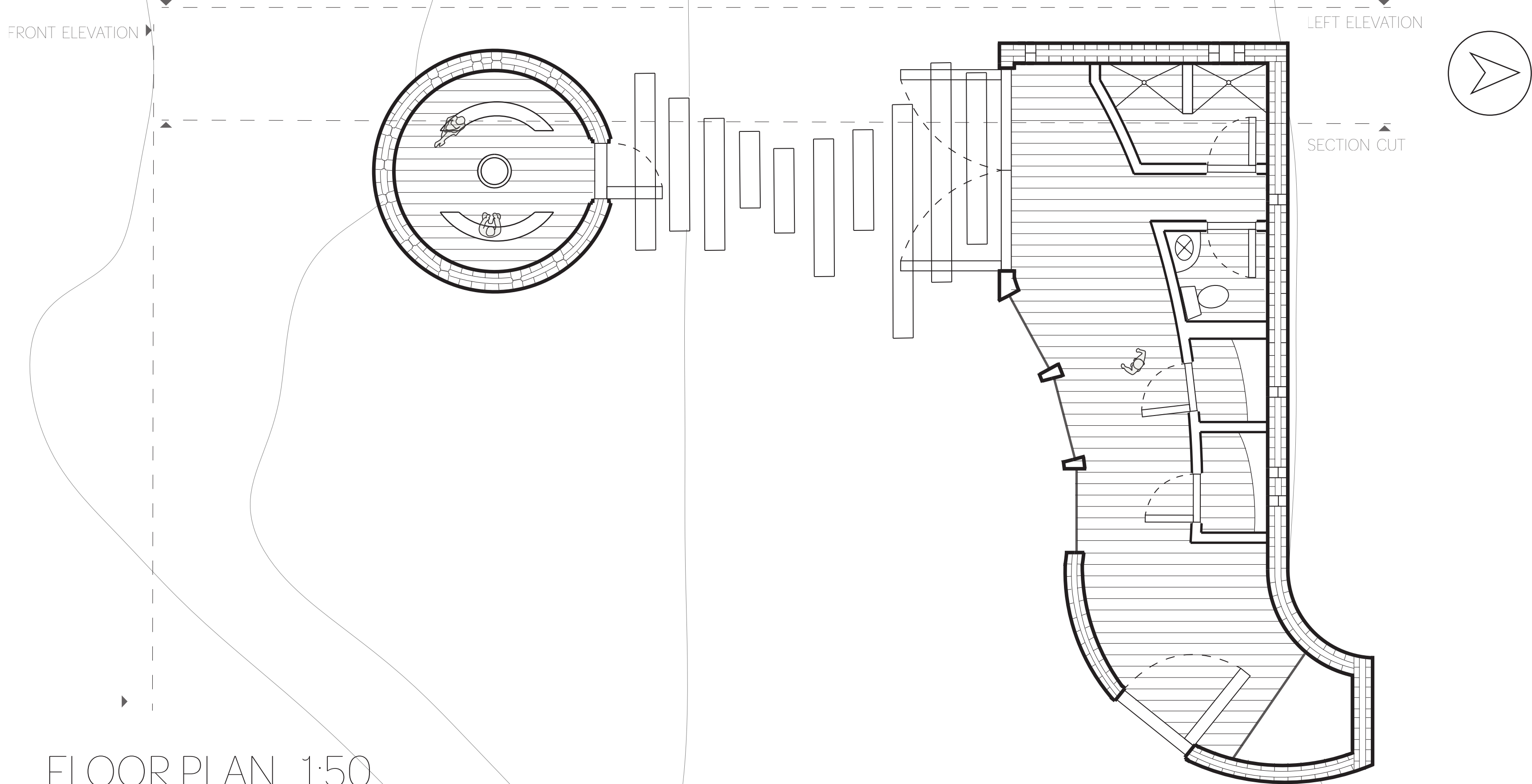
VIEW OF THE SAUNA FROM MAIN BUILDING



INTERIOR RENDER OF MAIN BUILDING



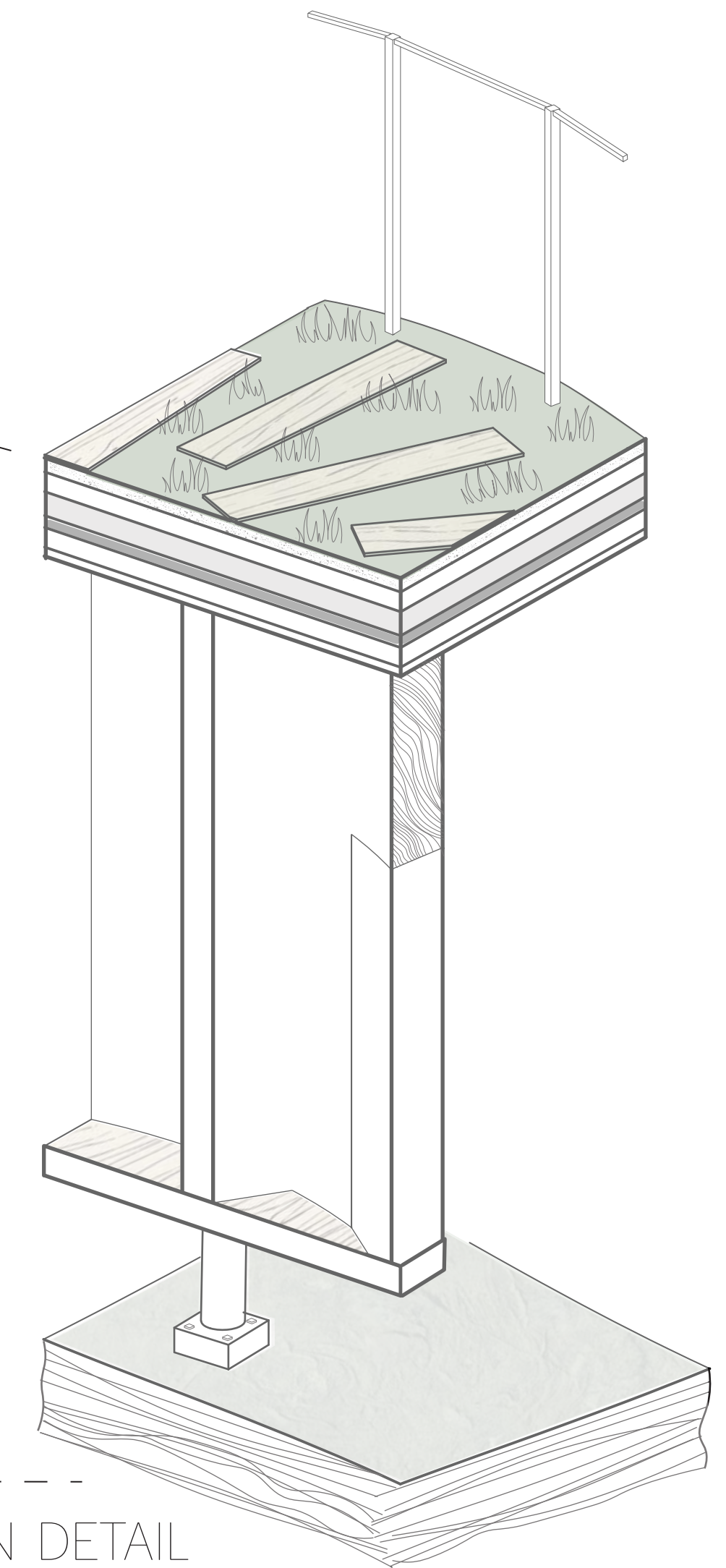
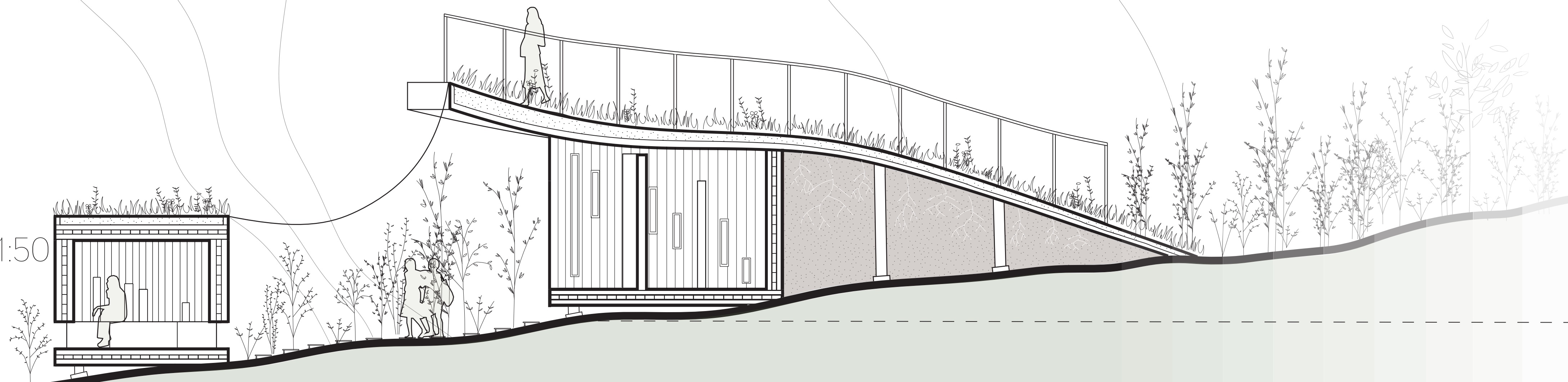
INTERIOR RENDER OF THE SAUNA



GREEN ROOF DETAIL

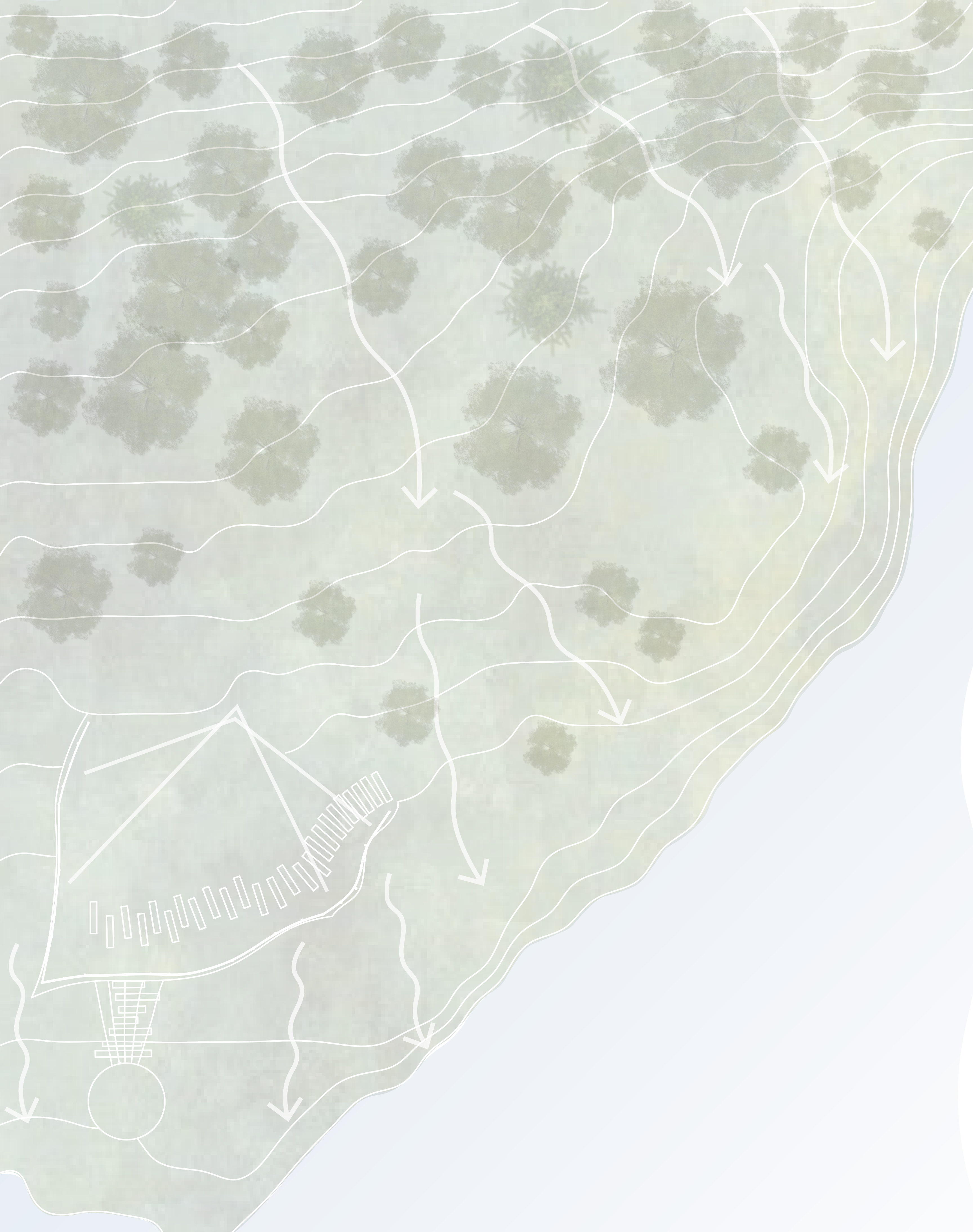
The greenroof acts as an added greenspace where there is currently bedrock. It also provides habitat for insects, birds, and animals, while collecting and filtering water for shower use.

RIGHT SECTION 1:50



ROCK FOUNDATION DETAIL
AXONOMETRIC 1:25

The immediate site where the building is located is bedrock, therefore the foundation detail must ground the building on the rock



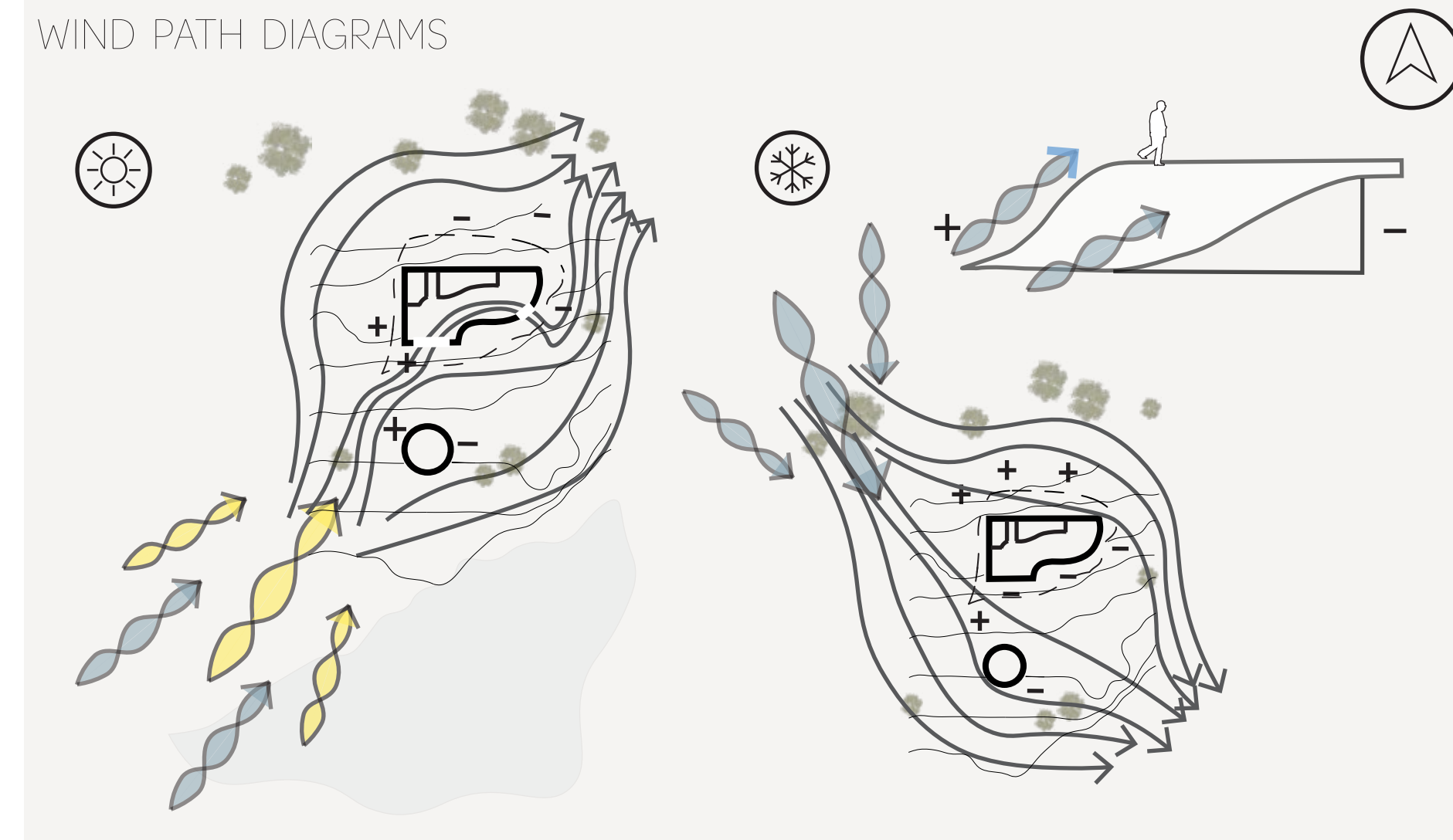
SITE PLAN AND WATER DIAGRAM 1:100



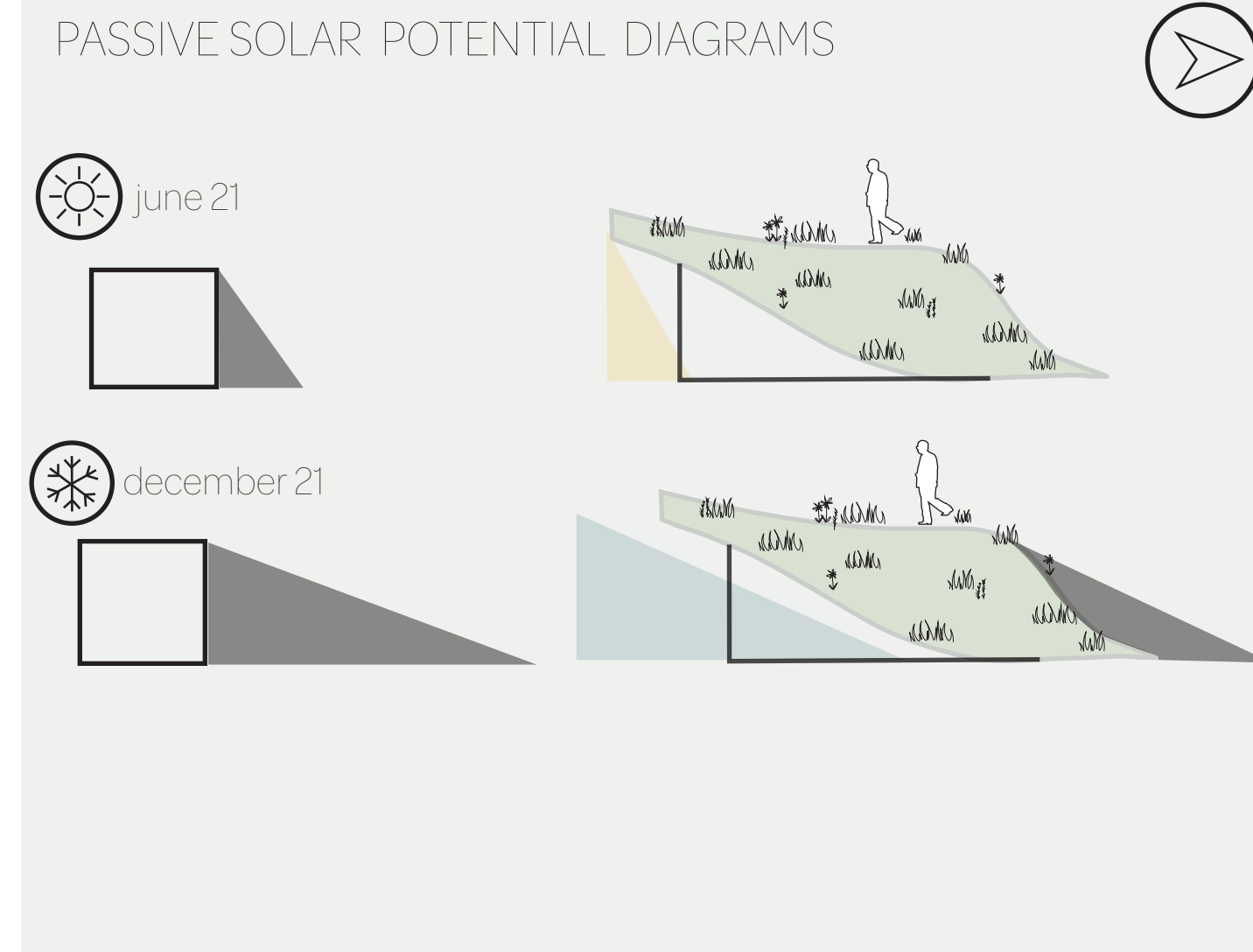
SITE ANALYSIS DIAGRAMS

Various diagrams representing how sun, wind, and shadow behave in relation to the design.

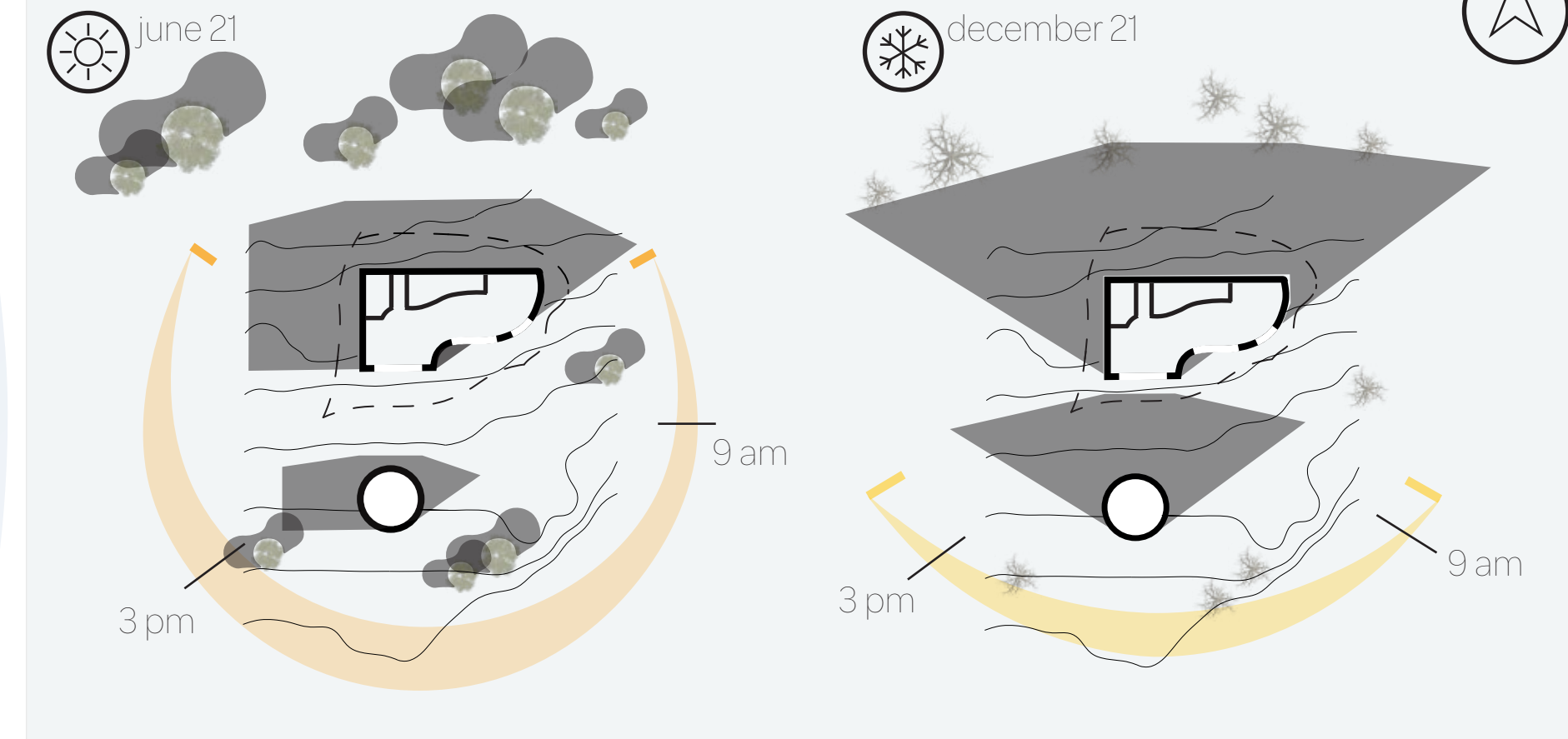
WIND PATH DIAGRAMS



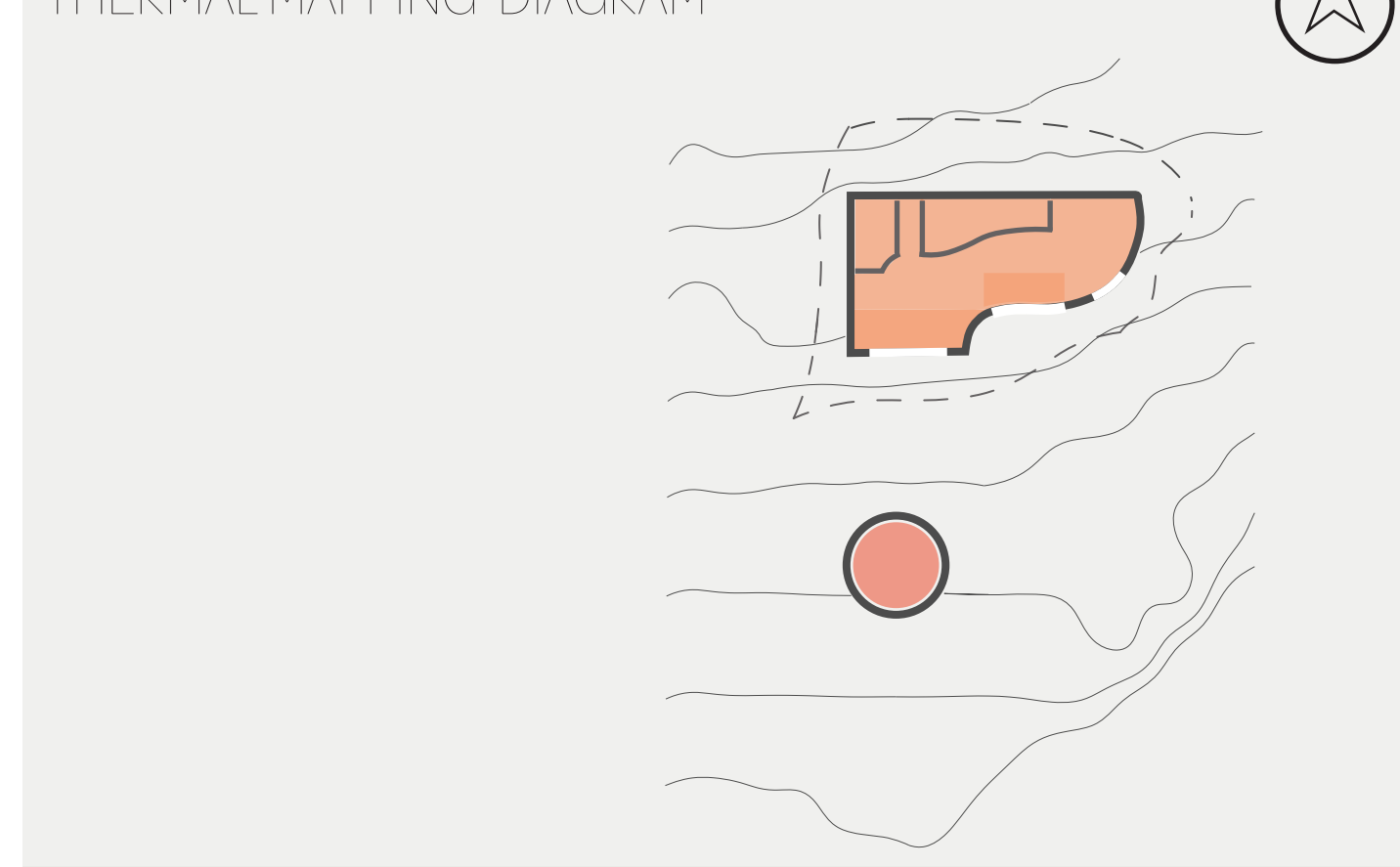
PASSIVE SOLAR POTENTIAL DIAGRAMS



SHADOW PATH DIAGRAMS

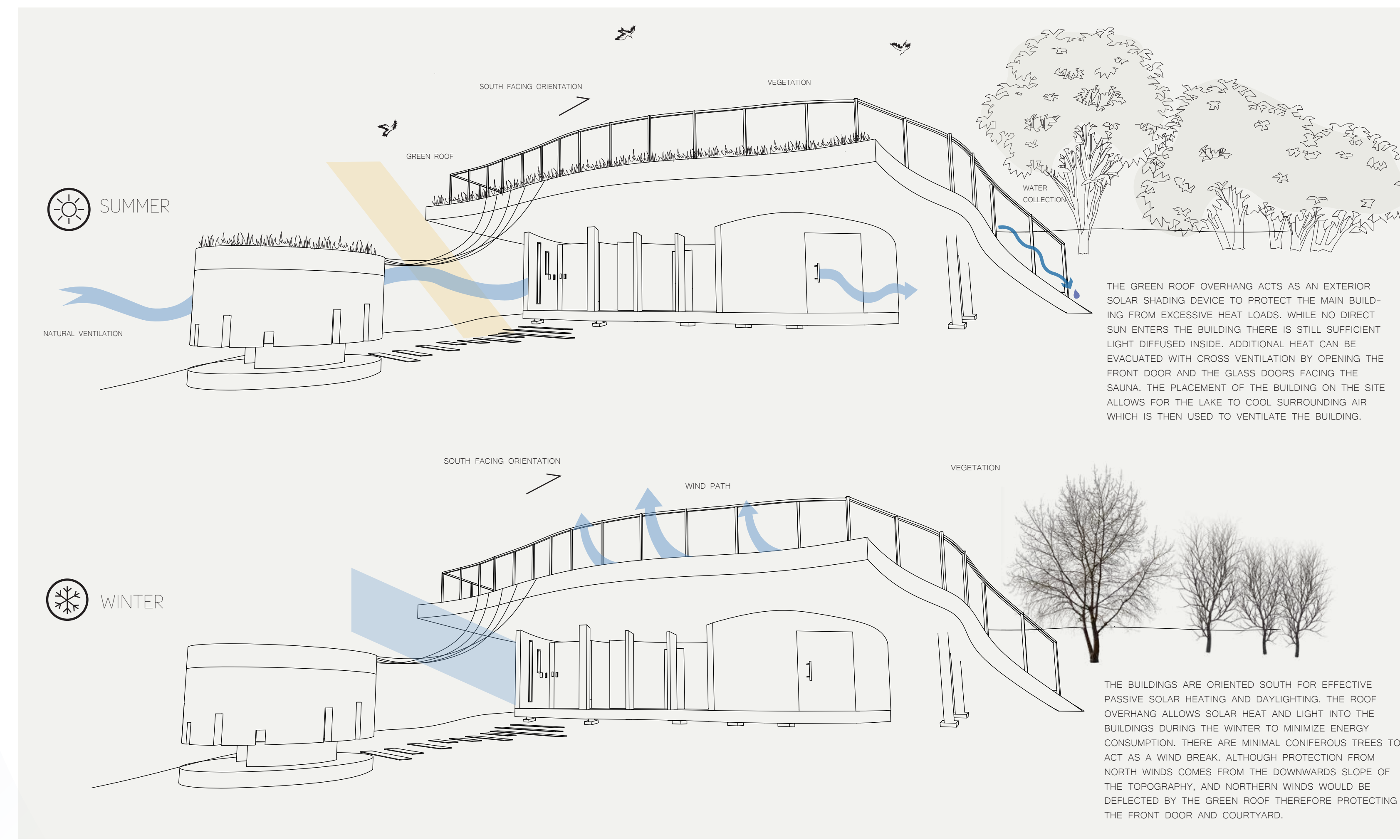


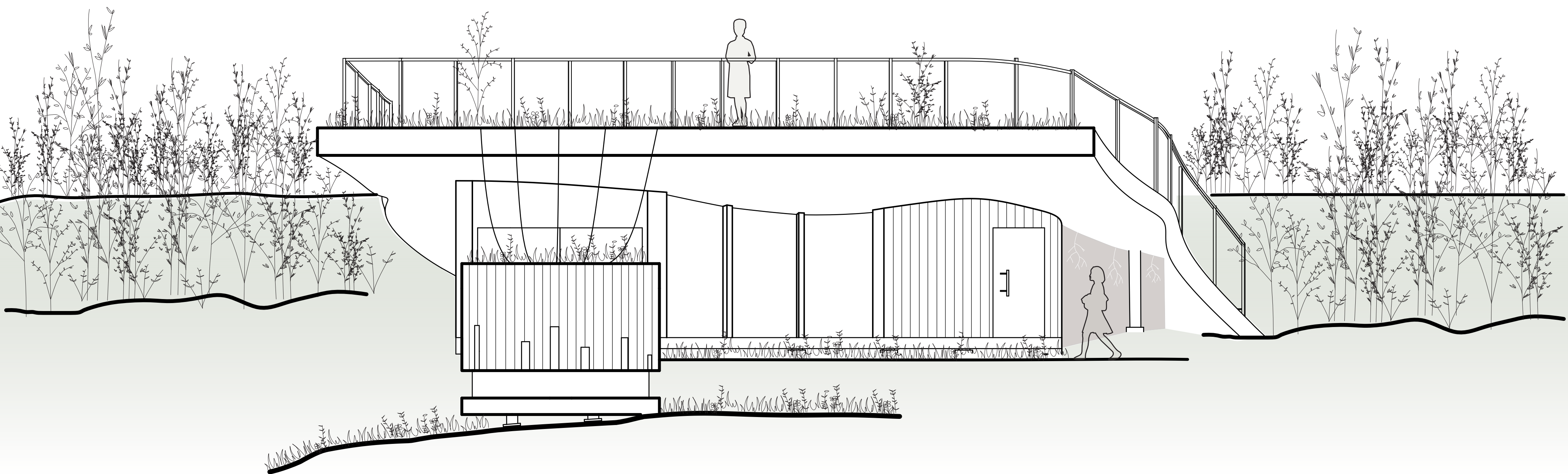
THERMAL MAPPING DIAGRAM



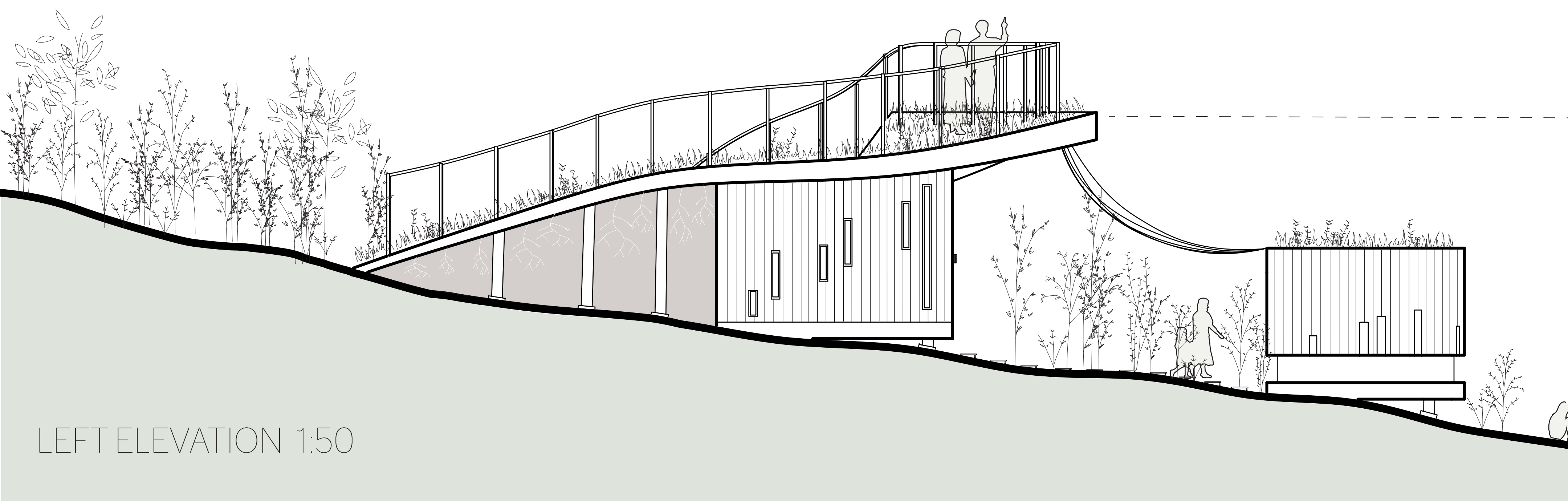
PASSIVE SECTIONS

Illustration of how passive design strategies are integrated into the design in context of the site

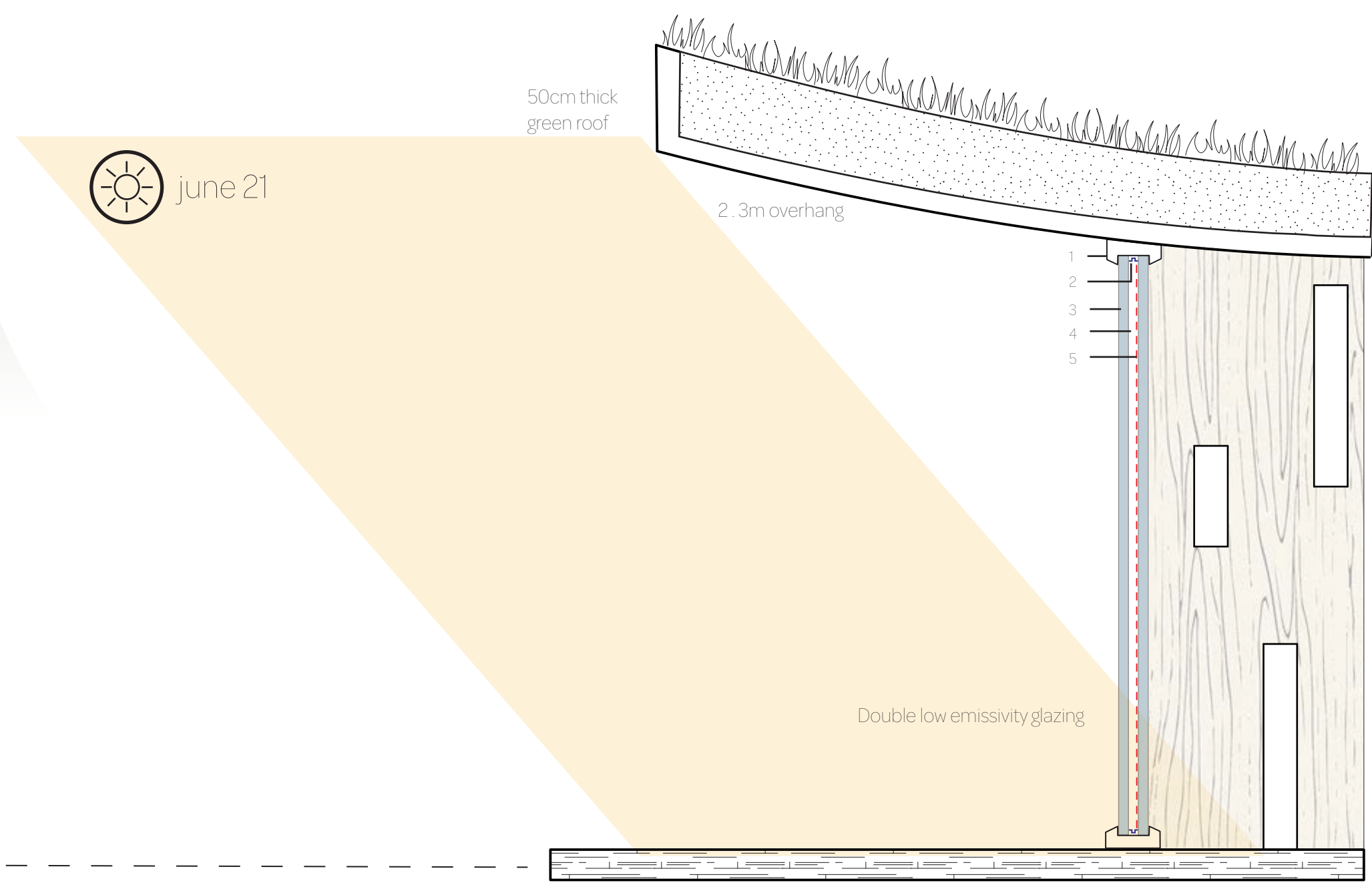




FRONT ELEVATION 1:50



LEFT ELEVATION 1:50



SOLAR SHADING DETAIL 1:10

SUMMER SOLSTICE 9AM (50 DEGREE ALTITUDE)
 The overhang of the greenroof acts as an external shading device. It is 2.3m long and allows passive heating and daylighting during winter months, but protects the building from unwanted heat during the summer.

- 1. WOOD WINDOW FRAME
- 2. RUBBER SPACER
- 3. GLASS PANES
- 4. AIR/ARGON/KRYPTON
- 5. LOW EMISSIVITY COATING



SAUNA 5 YEARS AFTER CONSTRUCTION



SAUNA DURING THE WINTER



SAUNA 15 YEARS AFTER CONSTRUCTION

