

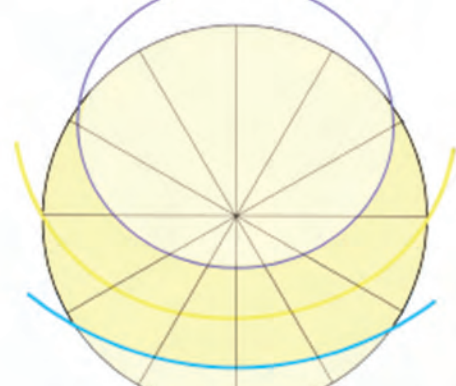
STRATA

BRIANNA BOUIUS

BENNETT LAKE SITE ANALYSIS

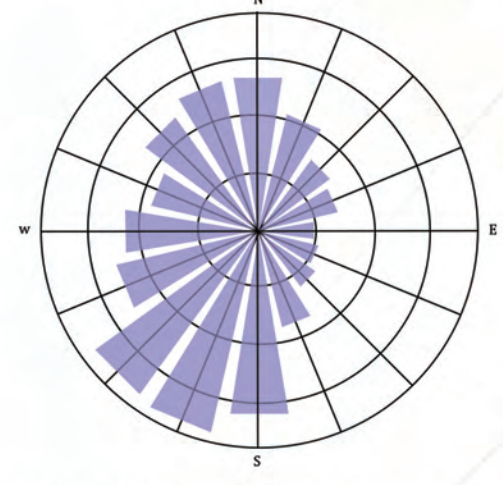
PASSIVE DESIGN INTEGRATION

SUDBURY SUN PATH

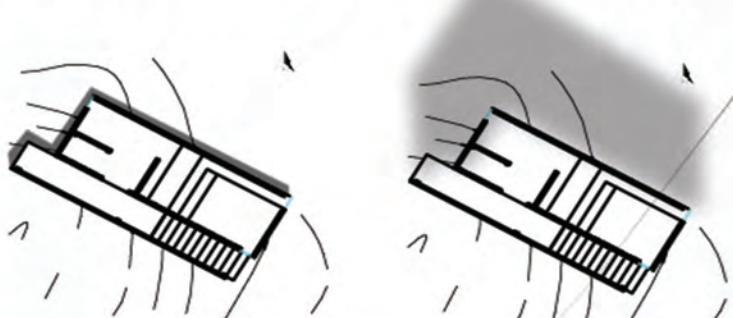


○ JUNE SOLSTICE
○ EQUINOX
○ DECEMBER SOLSTICE

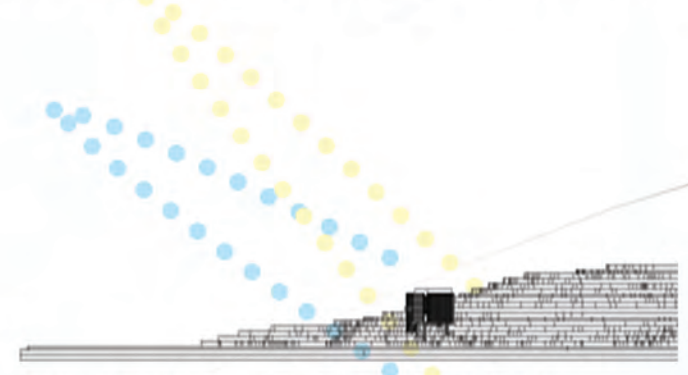
SUDBURY ANNUAL WINDROSE



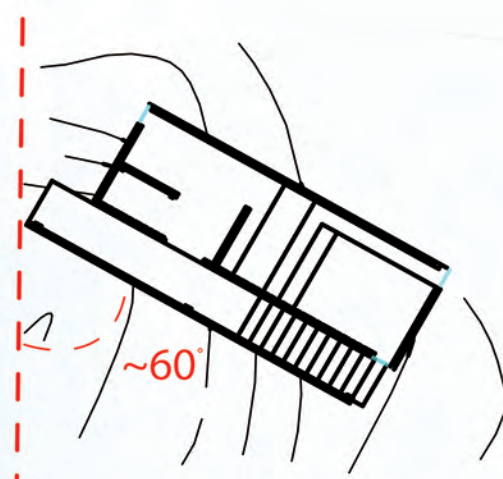
SHADOW PATTERN AT NOON
SUMMER SHADOWS WINTER SHADOWS



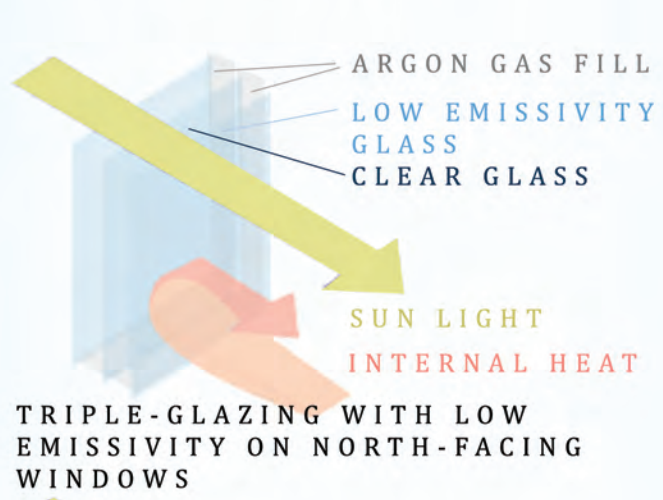
MAXIMUM DAYLIGHT EXPOSURE



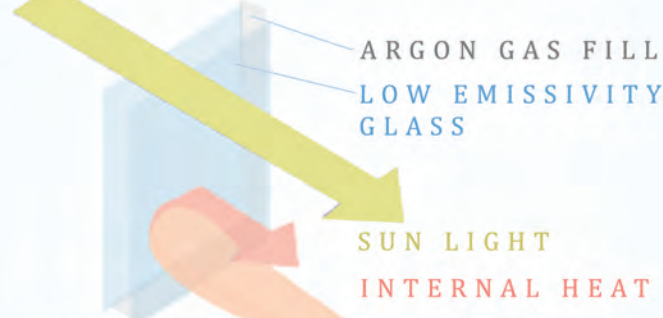
BUILDING ORIENTATION



WINDOW GLAZING

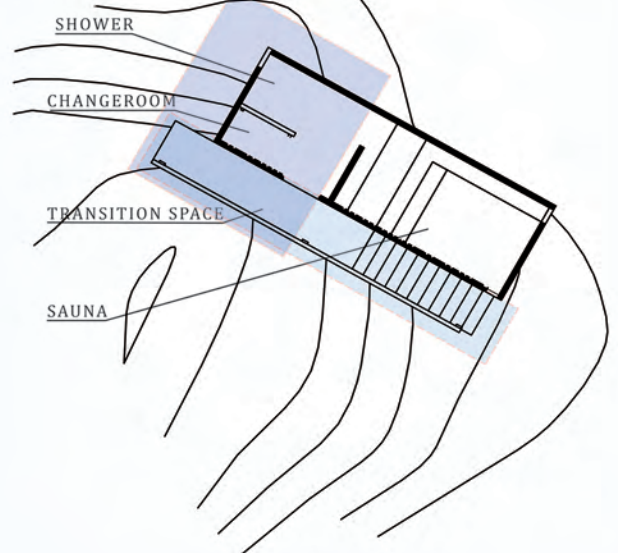


TRIPLE-GLAZING WITH LOW EMISSIVITY ON NORTH-FACING WINDOWS

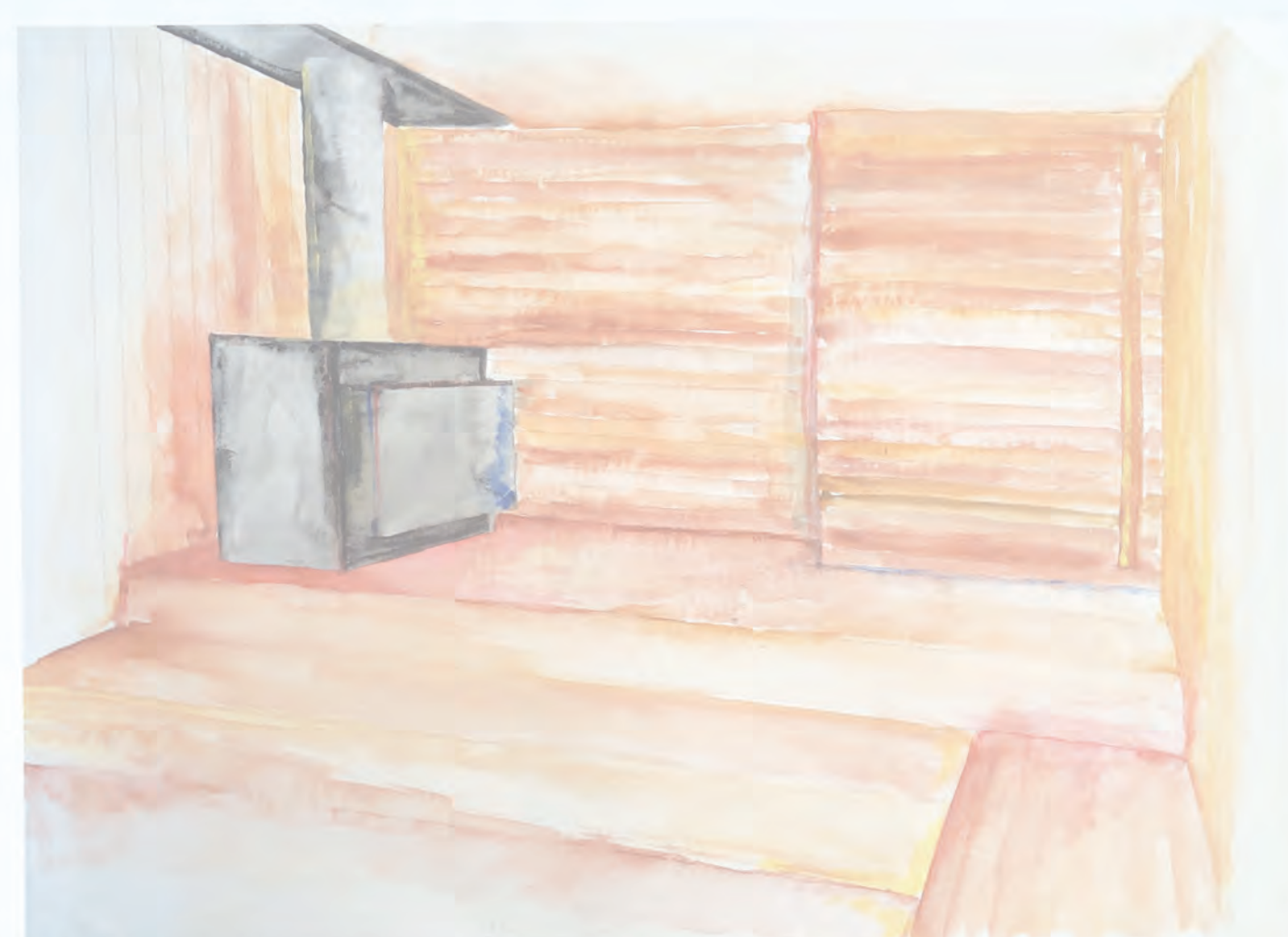


DOUBLE-GLAZING WITH LOW EMISSIVITY ON SOUTH-FACING WINDOWS

BUFFER ZONES FROM PREVAILING WINDS



PERSPECTIVES



SITE SPECIFIC SPECIES

- 1. BIRCH (WHITE, YELLOW)
- 2. PINE (RED, WHITE EASTERN)
- 3. RED MAPLE
- 4. RED OAK

VIEWS

SUMMER



WINTER



SPRING



① OUTHOUSE

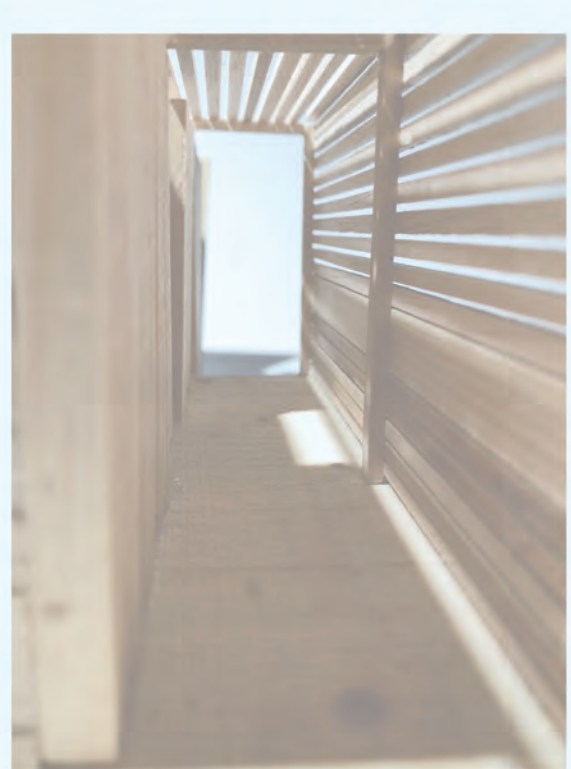
② SAUNA

AN ARRANGEMENT OF PARALLEL LINES COMPOSE A SERIES OF SPACES WHICH DISTILL THE SAUNA EXPERIENCE ALLOWING FOR TRANSITION AND COMMUNAL BATHING WITH A VIEW AND ACCESS TO THE WATER. THE DESIGN TOUCHES THE LAND IN A MINIMAL WAY CREATING A SMALL FOOTPRINT AND FUNCTIONS OFF THE GRID.

RAILING DETAIL



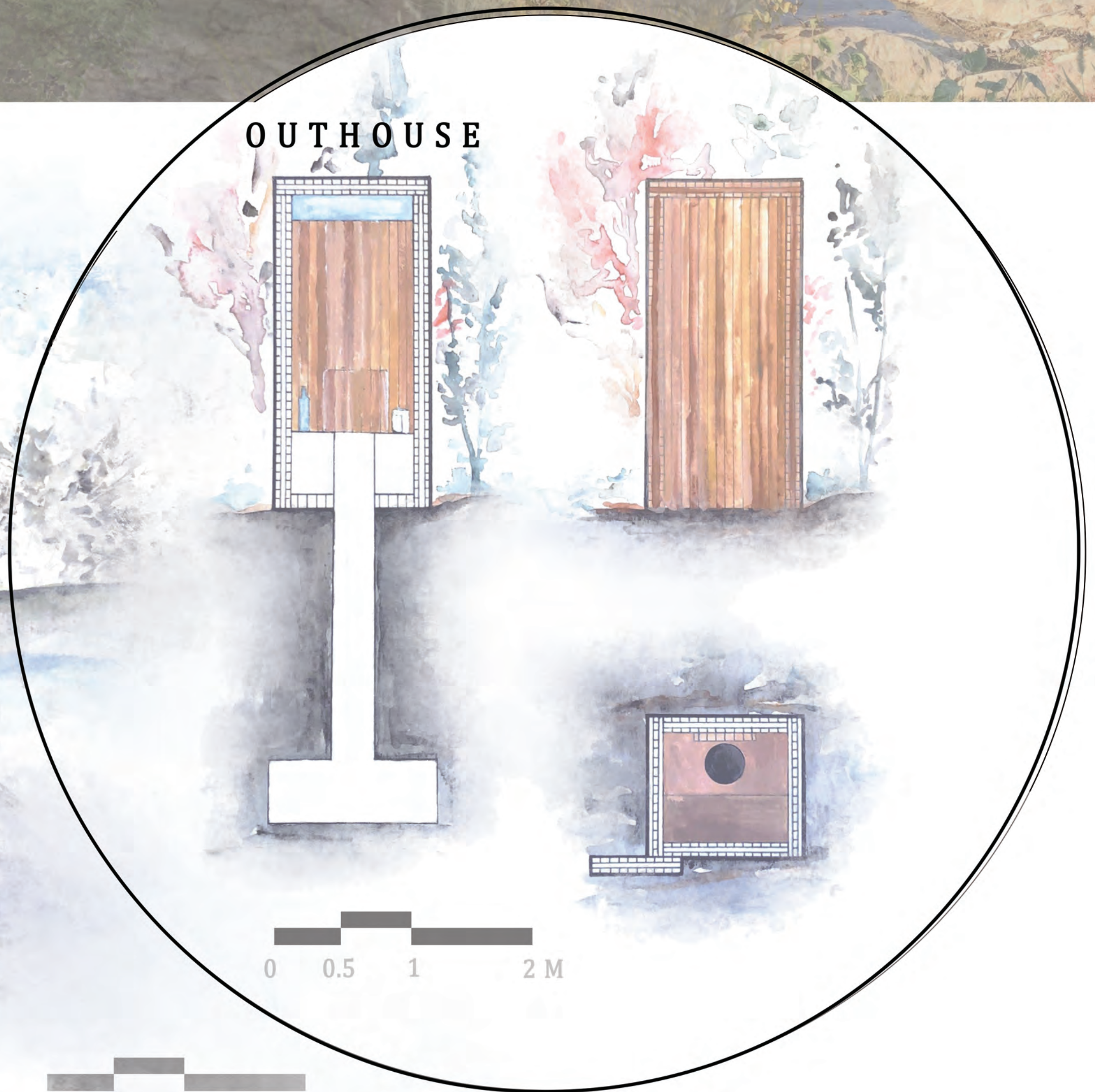
PROCESS WORK



NORTH ELEVATION



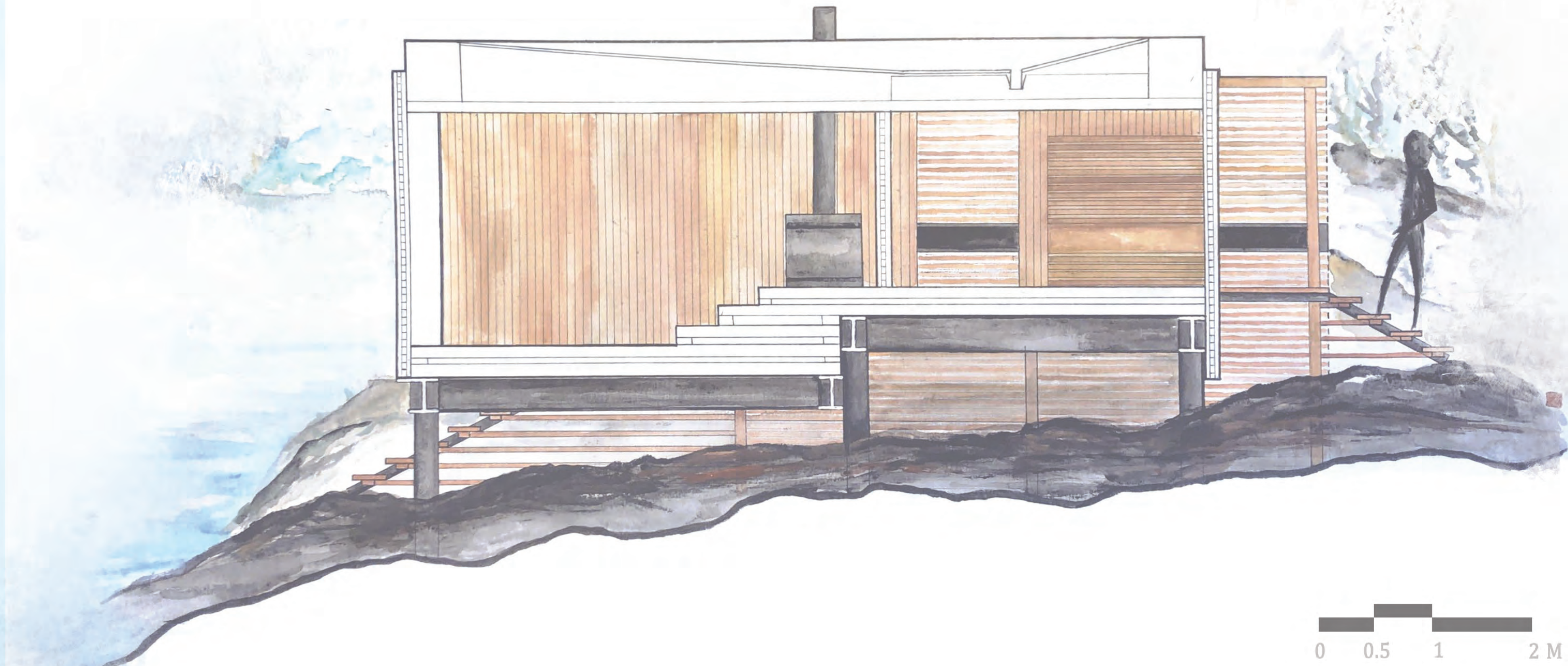
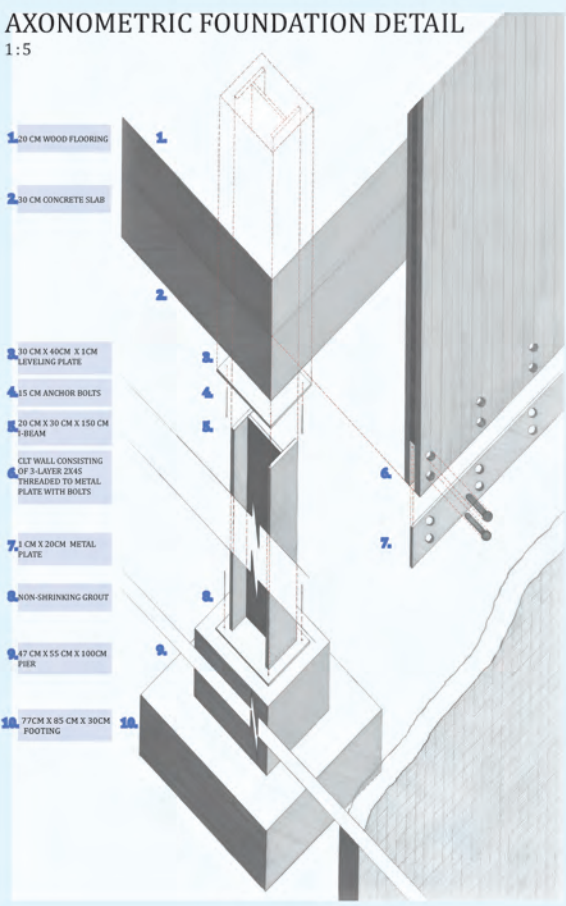
FLOOR PLAN



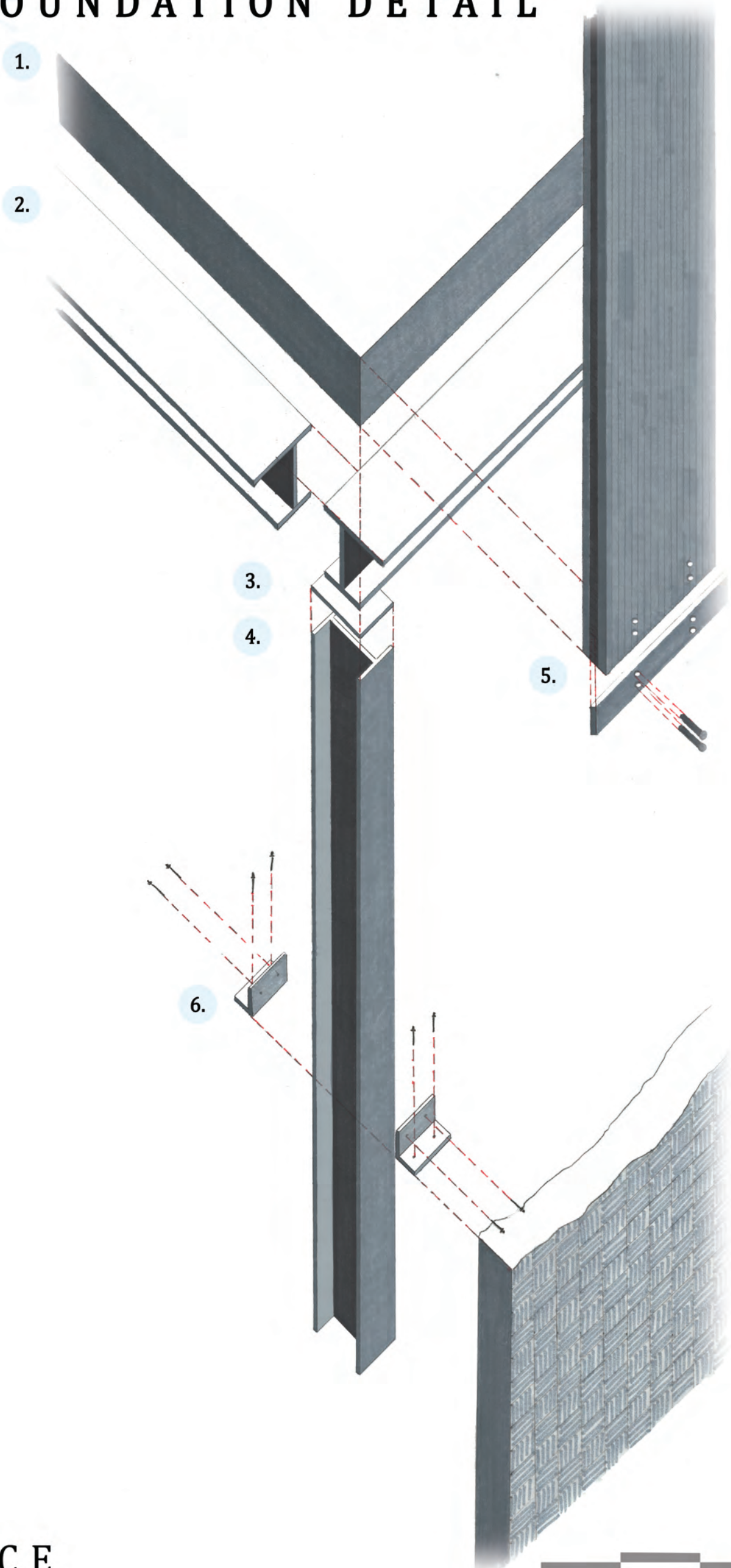
OUTHOUSE



SOUTH-WEST ELEVATION



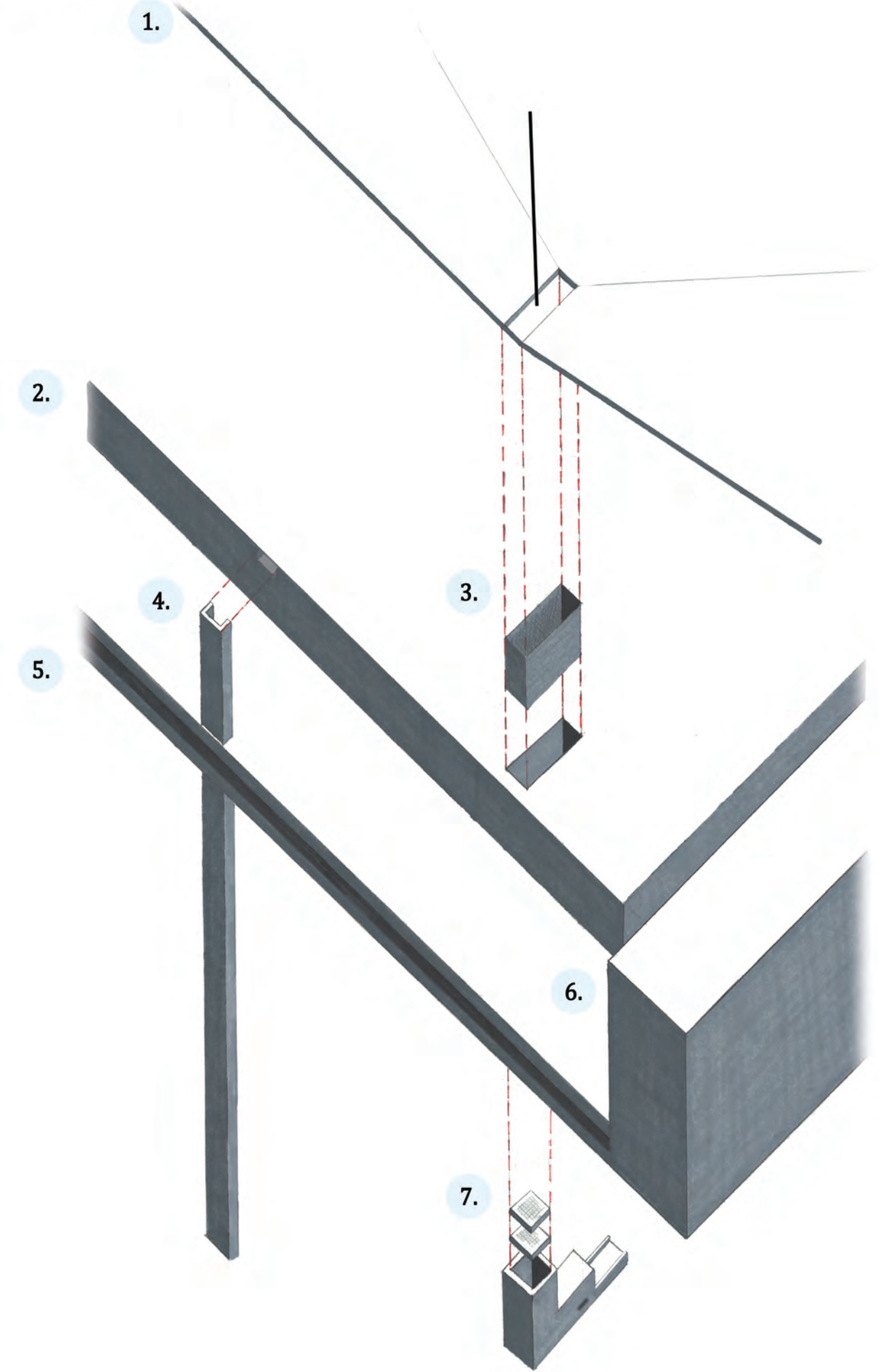
FOUNDATION DETAIL



0 0.5 1 1.5 M

ROOF WATER HARVESTING DETAIL

- 1. 30 CM WOOD FLOORING
 - 2. 20 CM X 30 CM I-BEAM
 - 3. 20 CM X 30 CM LEVELING PLATE
 - 4. 20 CM X 30 CM X 300CM I-BEAM
 - 5. CLT WALL CONSISTING OF 3 LAYER 2X4S THREADED TO METAL PLATE WITH BOLTS
 - 6. 20 CM X 10 CM BRACKETS
- 1. SLOPED ROOF SURFACE
 - 2. WATER HOLDING CONTAINER
 - 3. 20 CM X 10 CM X 20 CM WATER FILTER:
COAL GRAINS
FINE SAND
FINE GRAVEL
LARGE GRAVEL
 - 4. OVERFLOW WATER FUNNEL
 - 5. CLT CEILING OF 3 LAYER 2X4S
 - 6. 40 CM X 750 CM ROOF FRAMING
 - 7. FILTER SCREENS IN SHOWER HEAD



0 0.5 1 1.5 M

INTERIOR SAUNA SPACE

