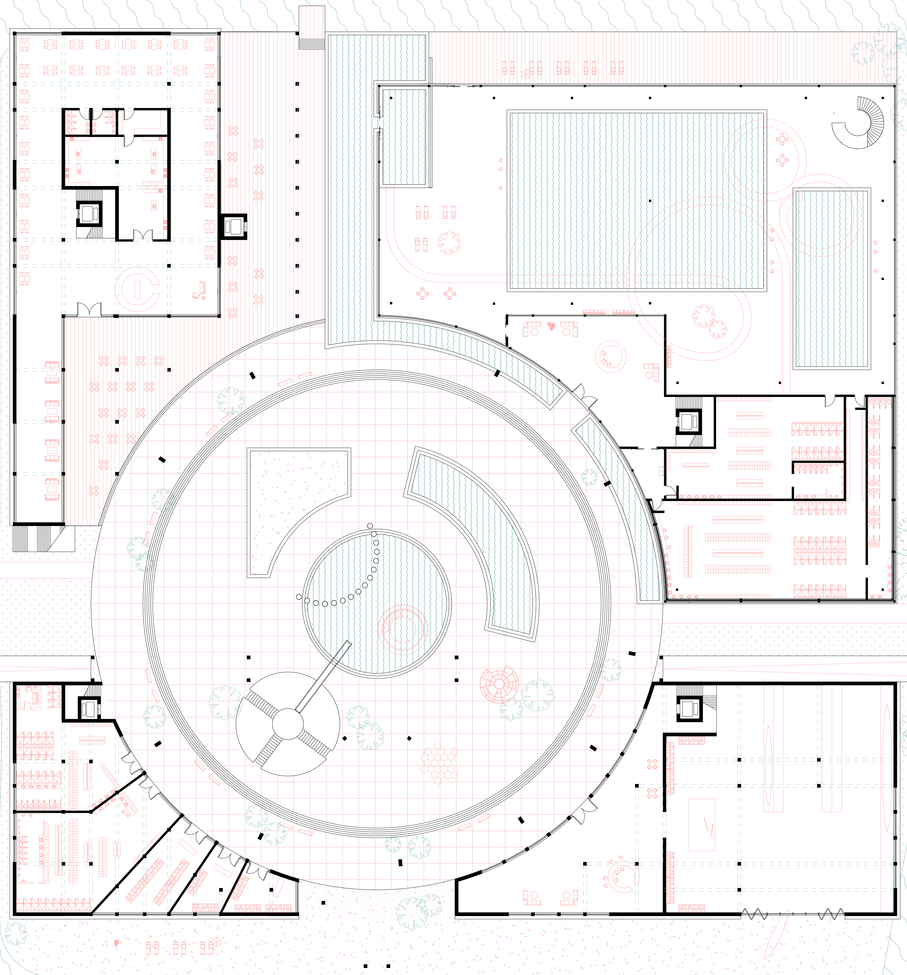
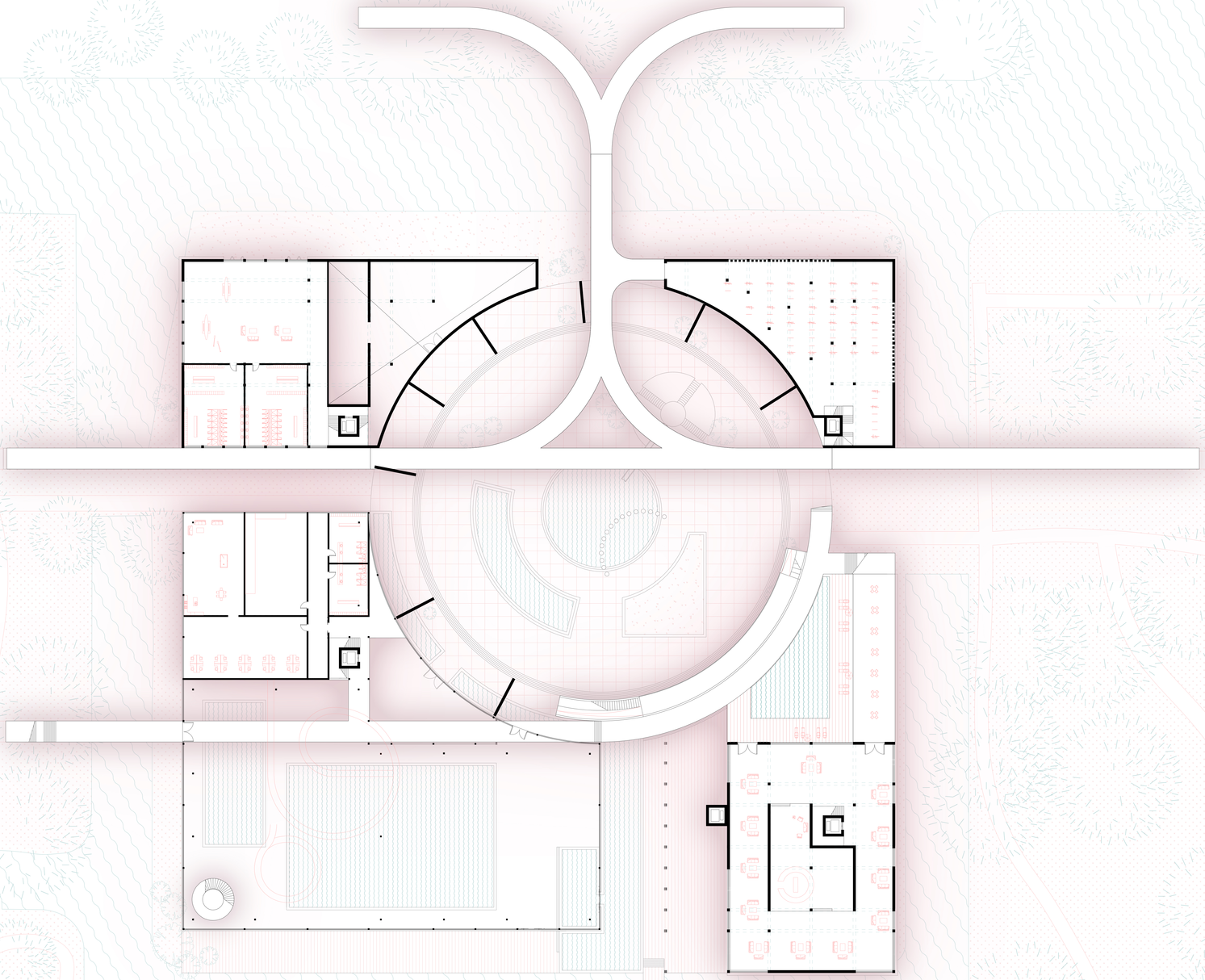
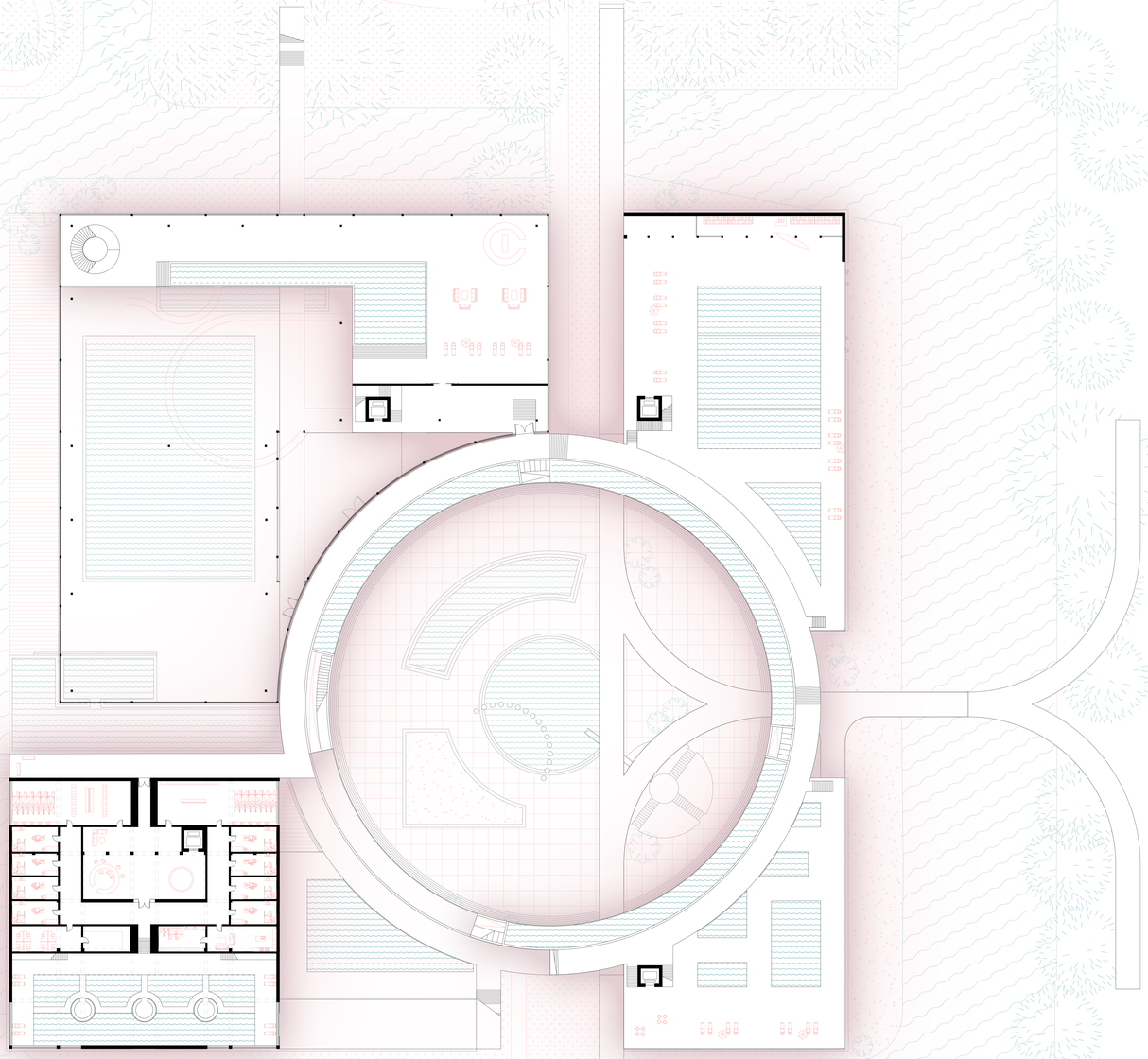
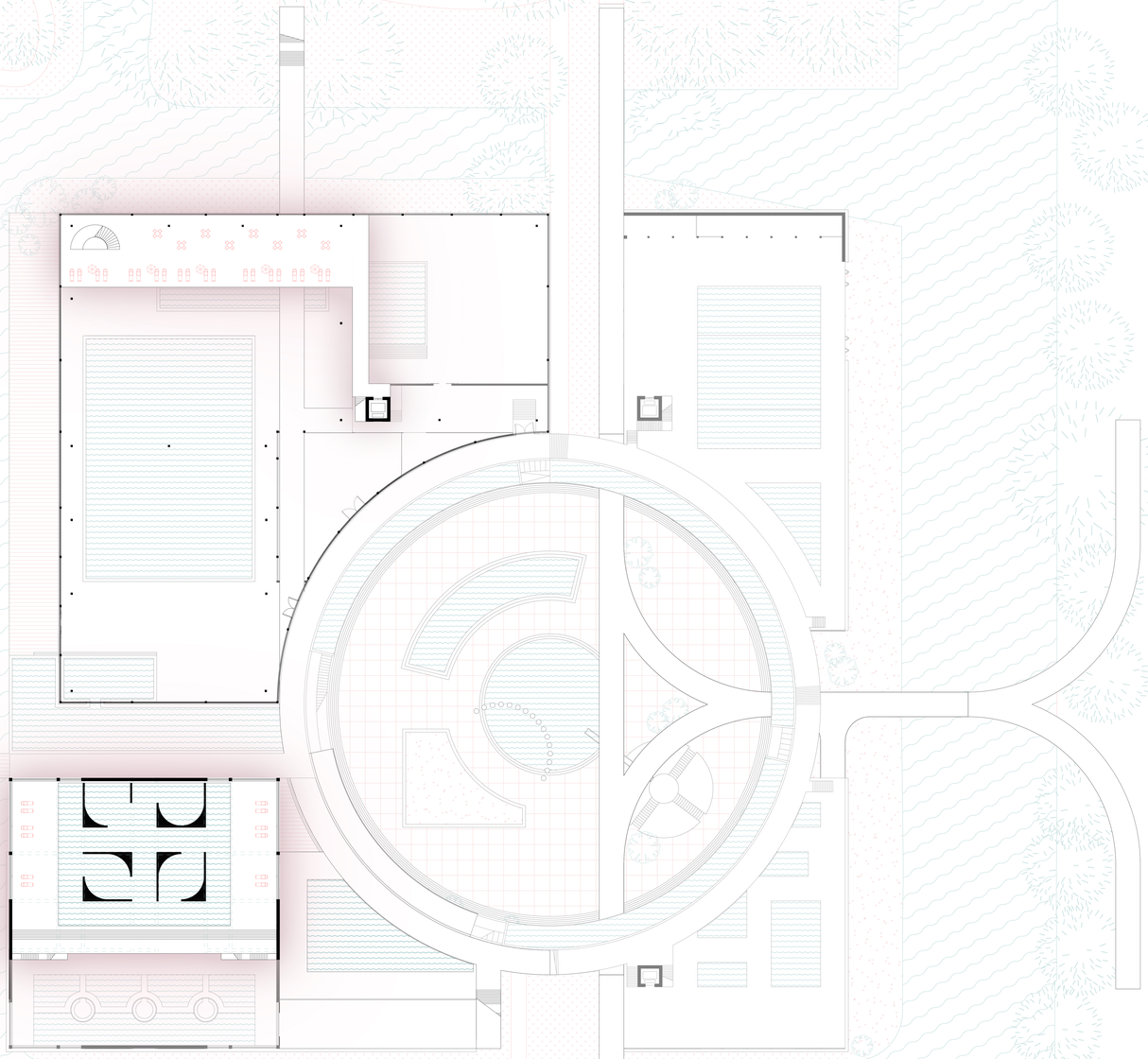
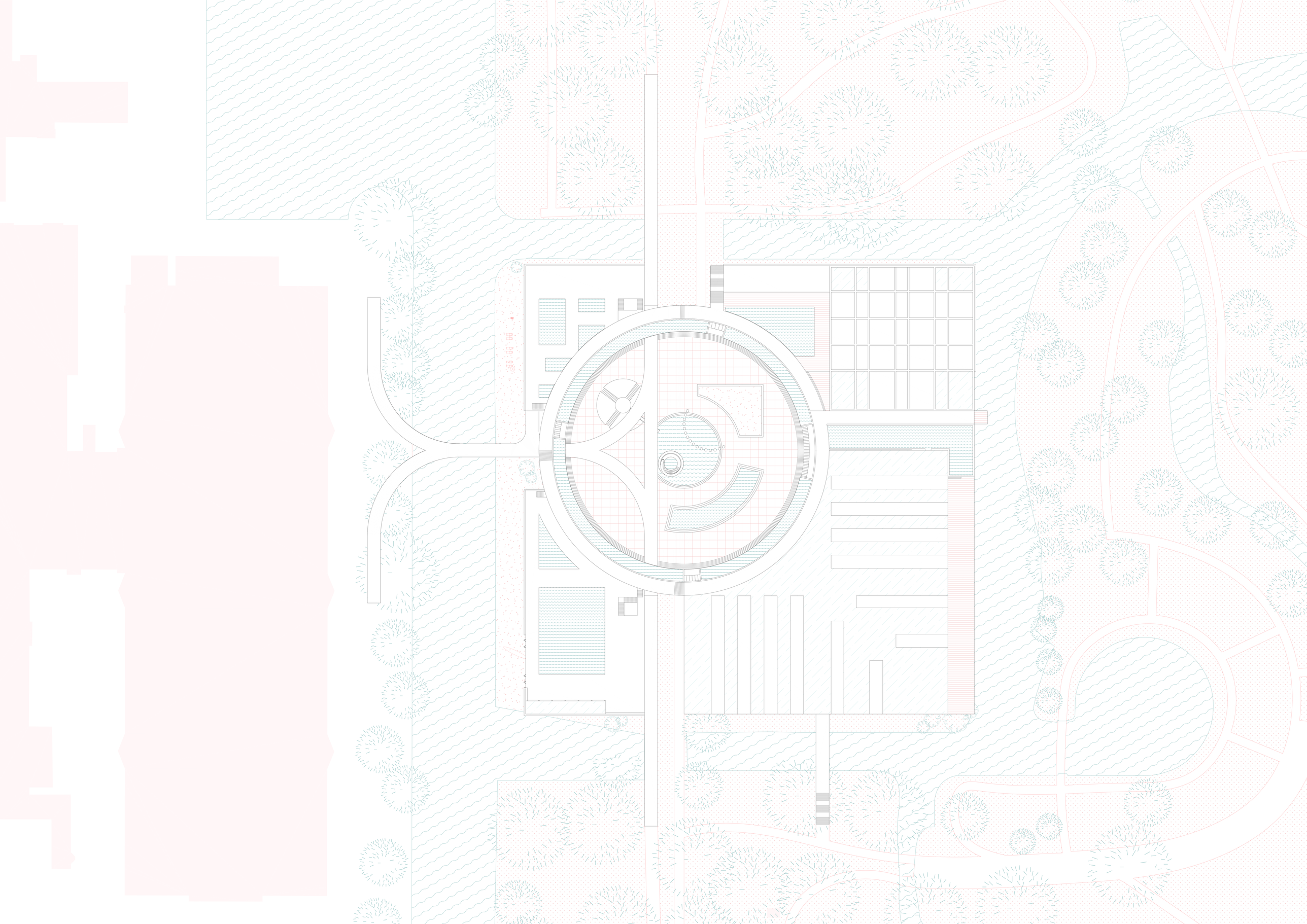
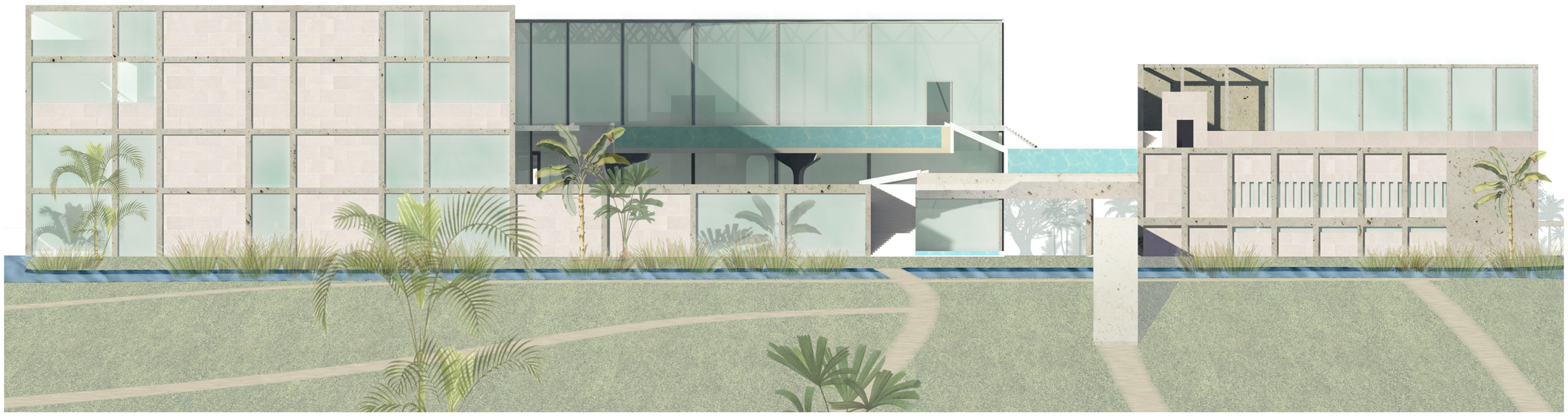












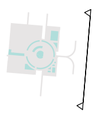
SOUTH FACADE



NORTH FACADE

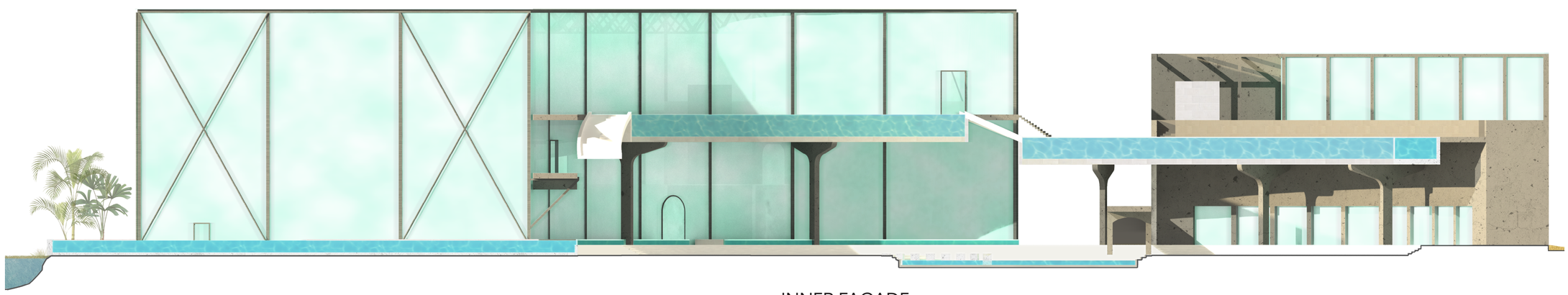


EAST FACADE





WEST FACADE

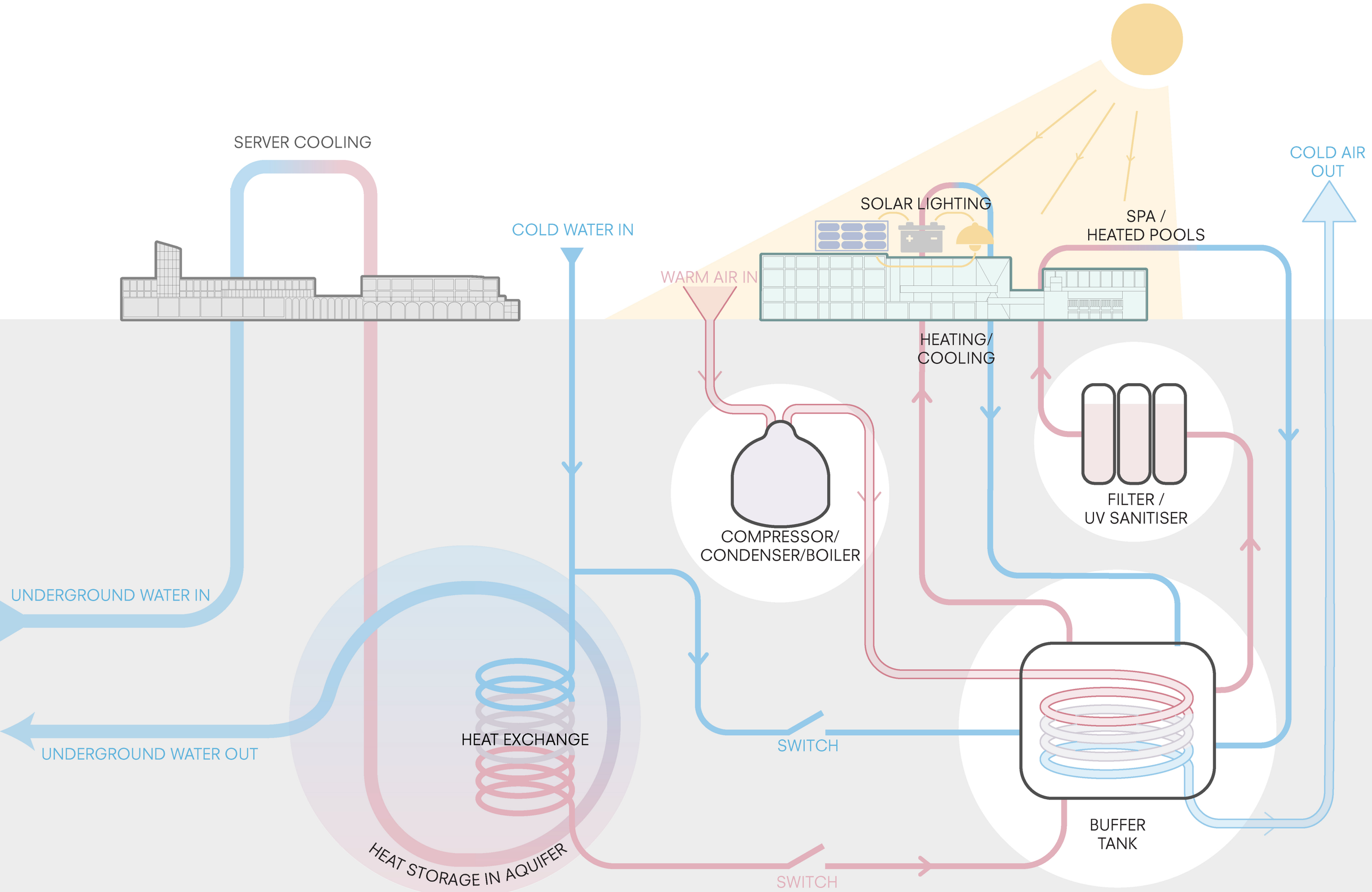


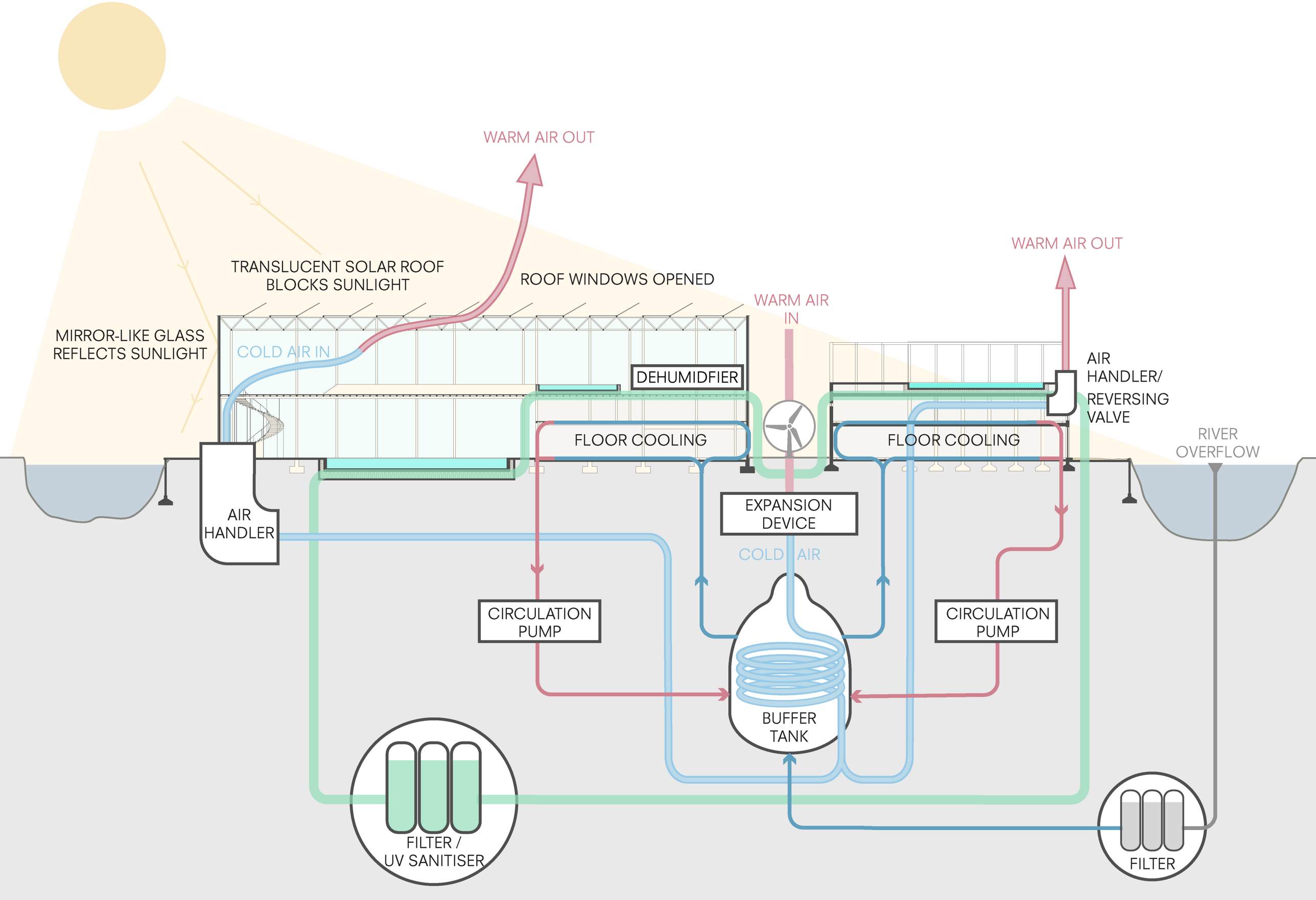
INNER FACADE

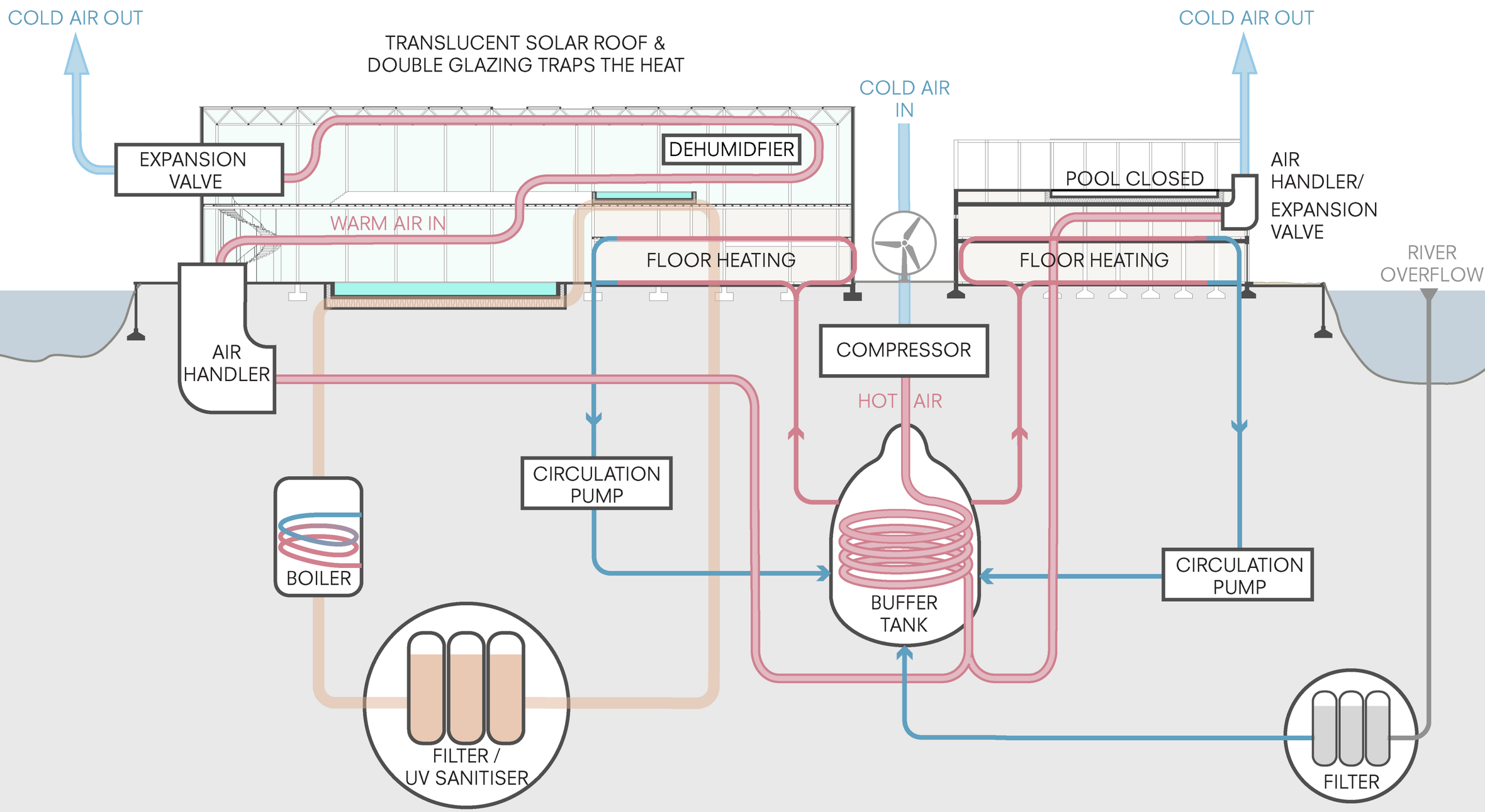
1:300

DATA EMBASSY

SWIMMING COMPLEX




WARM AIR OUT
TRANSLUCENT SOLAR ROOF
BLOCKS SUNLIGHT
ROOF WINDOWS OPENED
MIRROR-LIKE GLASS
REFLECTS SUNLIGHT
COLD AIR IN
WARM AIR
IN
WARM AIR OUT
AIR
HANDLER/
REVERSING
VALVE
DEHUMIDFIER
FLOOR COOLING
FLOOR COOLING
RIVER
OVERFLOW
AIR
HANDLER
EXPANSION
DEVICE
COLD AIR
CIRCULATION
PUMP
CIRCULATION
PUMP
BUFFER
TANK
FILTER /
UV SANITISER
FILTER


COLD AIR OUT
TRANSLUCENT SOLAR ROOF &
DOUBLE GLAZING TRAPS THE HEAT
COLD AIR
IN
COLD AIR OUT
EXPANSION
VALVE
DEHUMIDFIER
WARM AIR IN
POOL CLOSED
AIR
HANDLER/
EXPANSION
VALVE
RIVER
OVERFLOW
FLOOR HEATING
FLOOR HEATING
COMPRESSOR
HOT AIR
AIR
HANDLER
CIRCULATION
PUMP
BOILER
BUFFER
TANK
CIRCULATION
PUMP
FILTER /
UV SANITISER
FILTER

translucent photovoltaic panels

glass roof system

steel space frame

steel beams

concrete beams

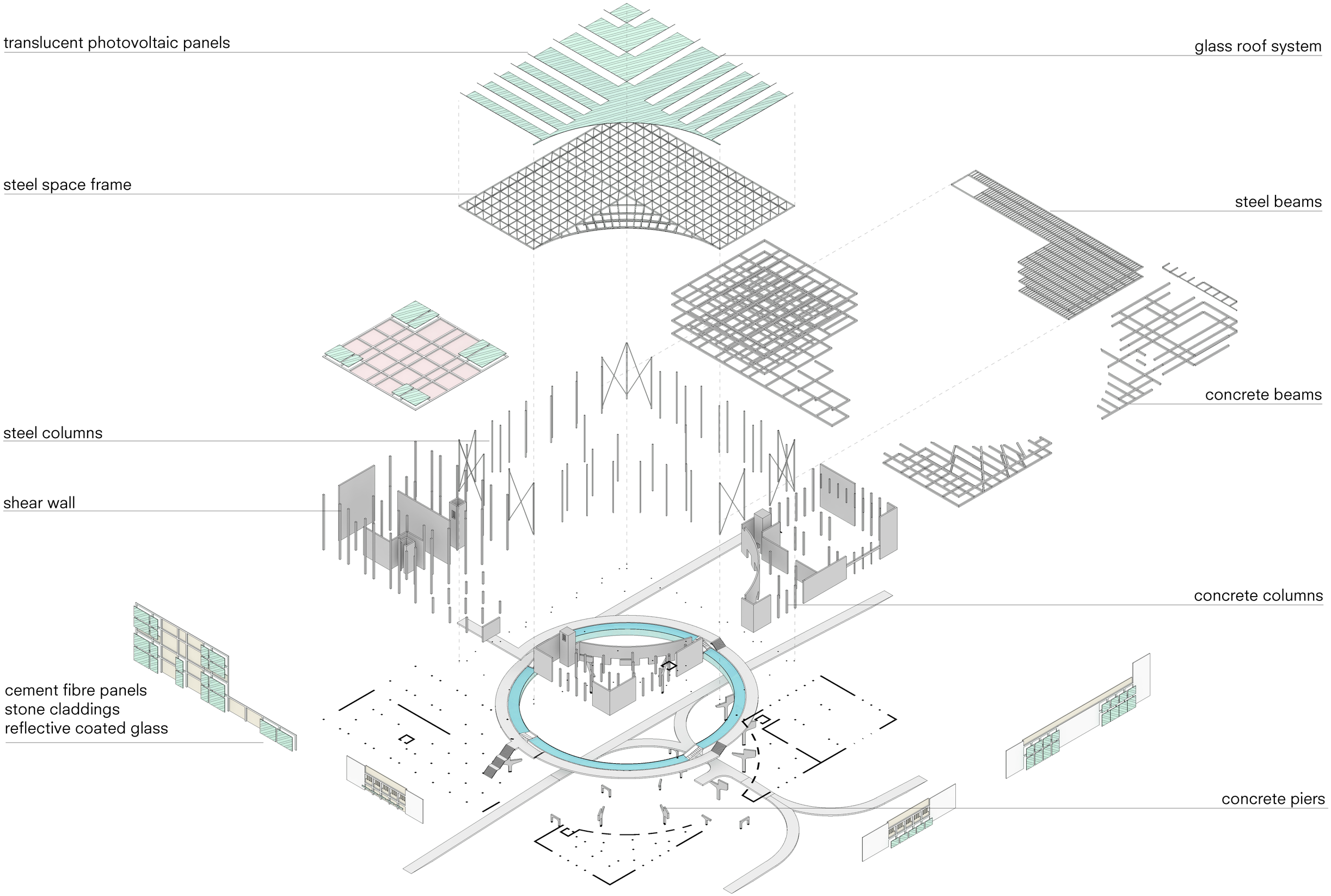
steel columns

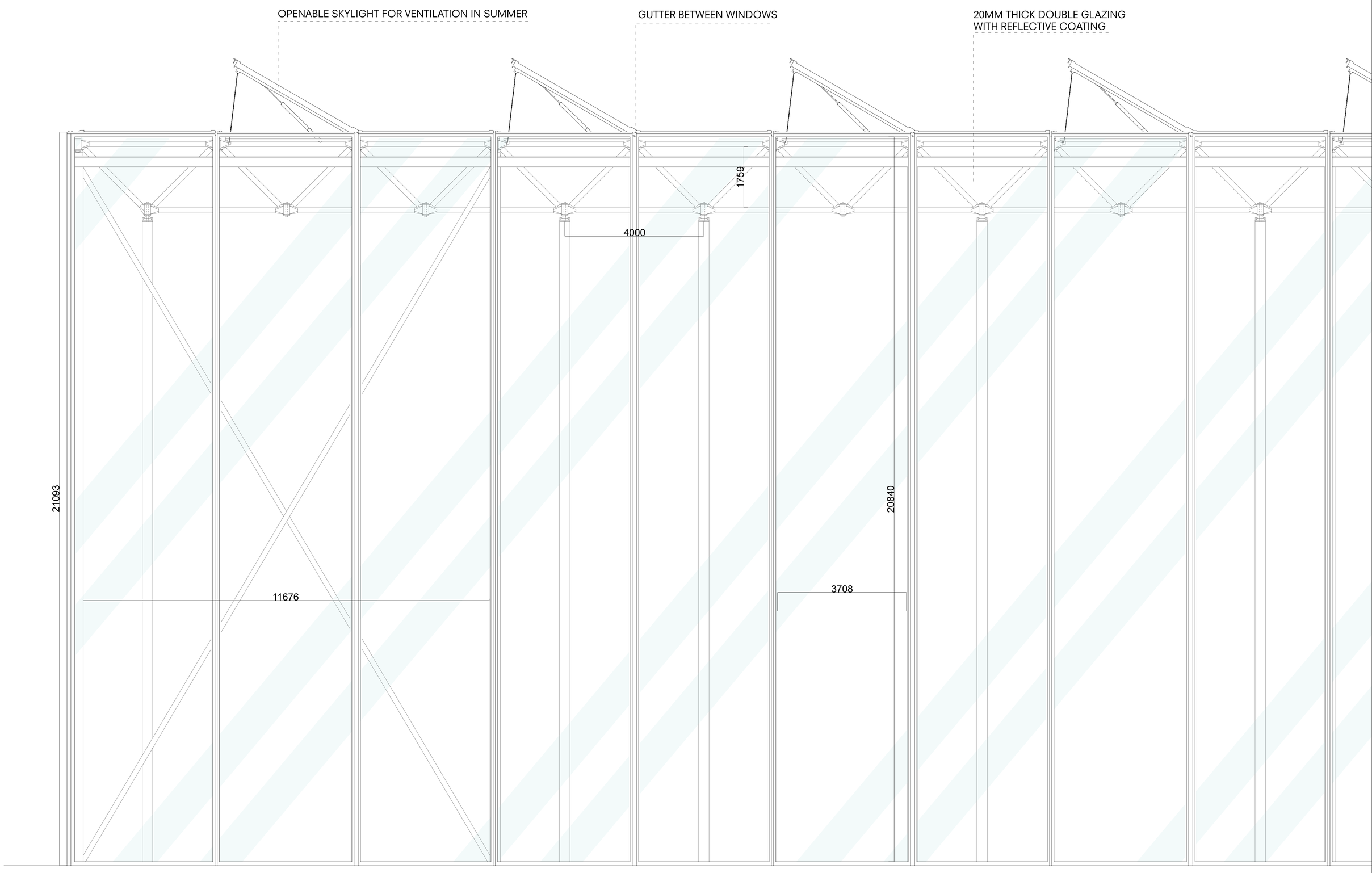
shear wall

concrete columns

cement fibre panels
stone claddings
reflective coated glass

concrete piers




OPENABLE SKYLIGHT FOR VENTILATION IN SUMMER
GUTTER BETWEEN WINDOWS
20MM THICK DOUBLE GLAZING
WITH REFLECTIVE COATING
1759
4000
21093
11676
20840
3708

ALUMINIUM FRAME WITH GUTTER

PHOTOVOLTAIC SOLAR PANEL
PROVIDES ELECTRICITY FOR LIGHTINGS

105

30°

OPENABLE SKYLIGHT ALLOWS
VENTILATION IN SUMMER

20MM THICK DOUBLE GLAZING
WITH REFLECTIVE COATING

20

300MM H BEAM

300

150

1759

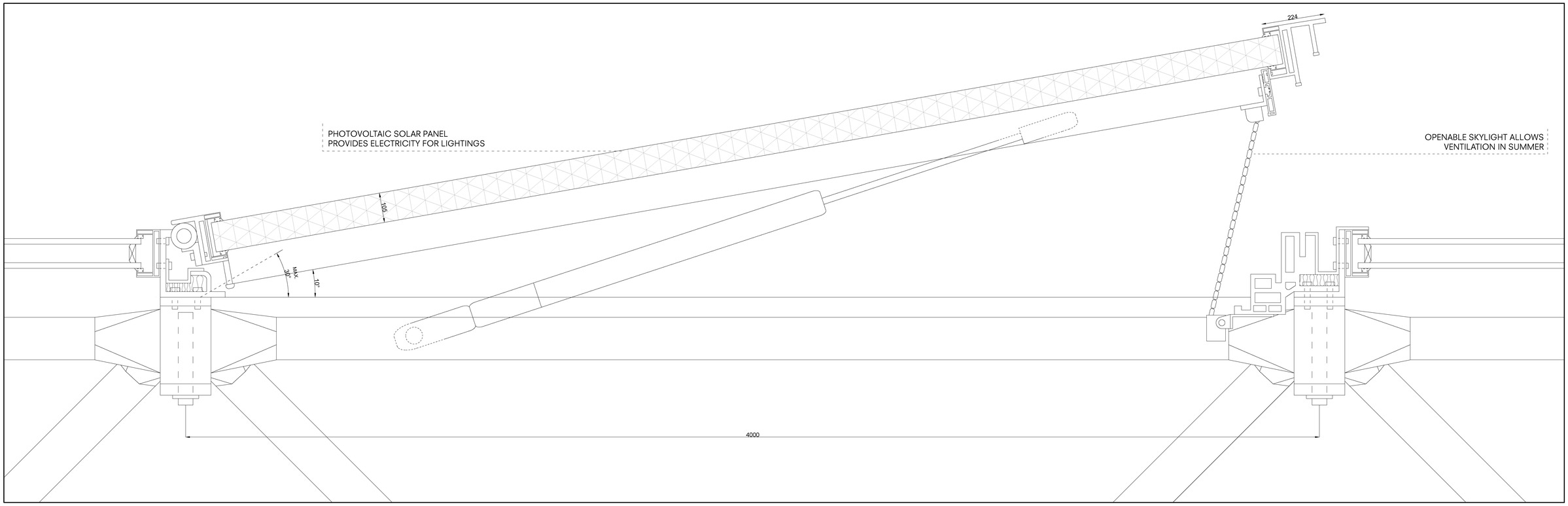
4000

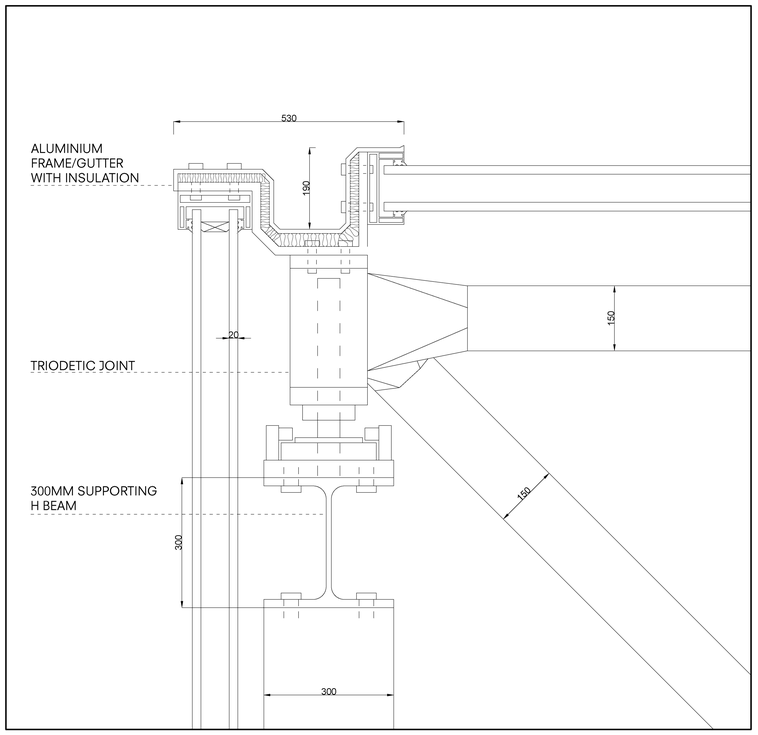
150MM CIRCULAR HOLLOW STEEL BEAM

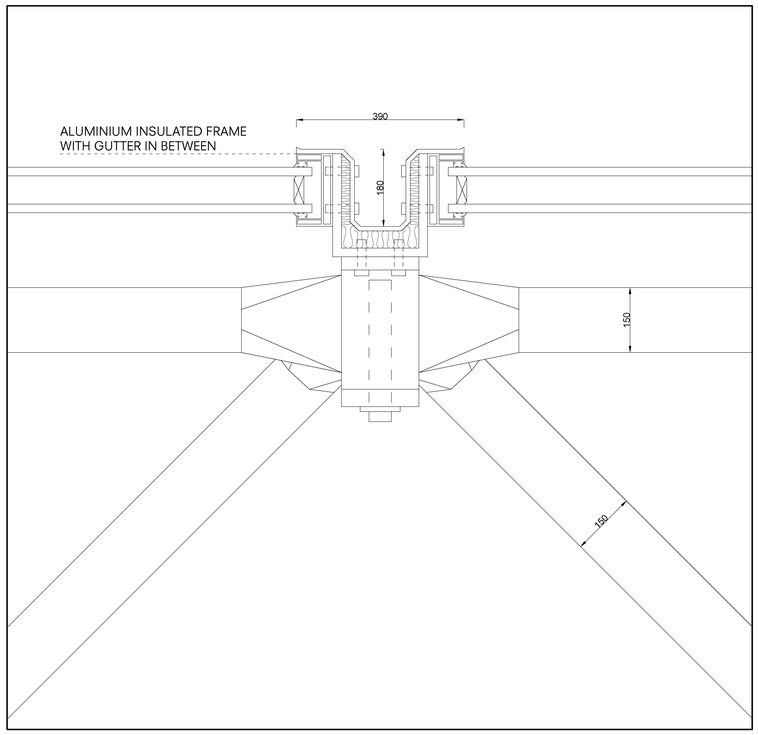
TRIODETIC SYSTEM JOINT

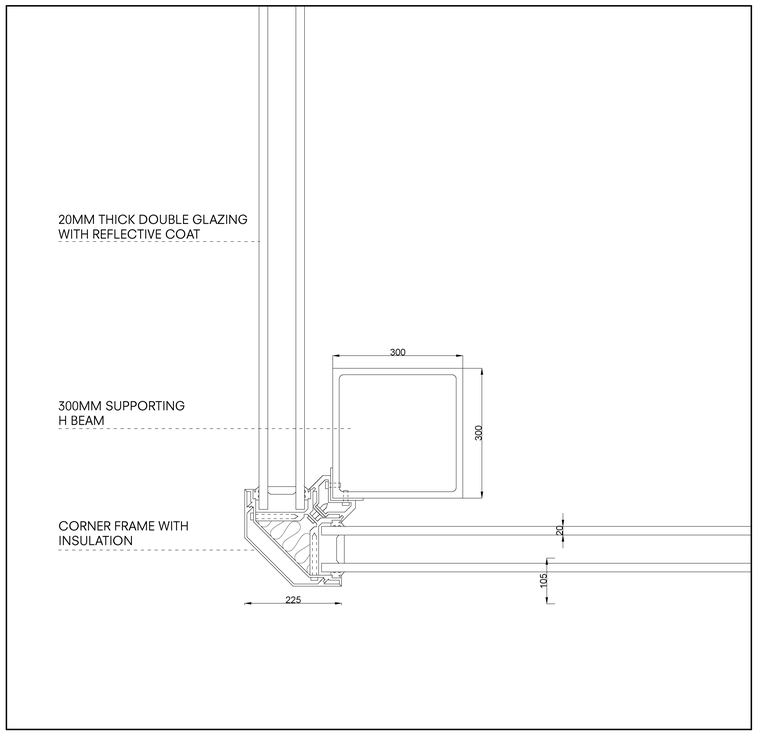
300

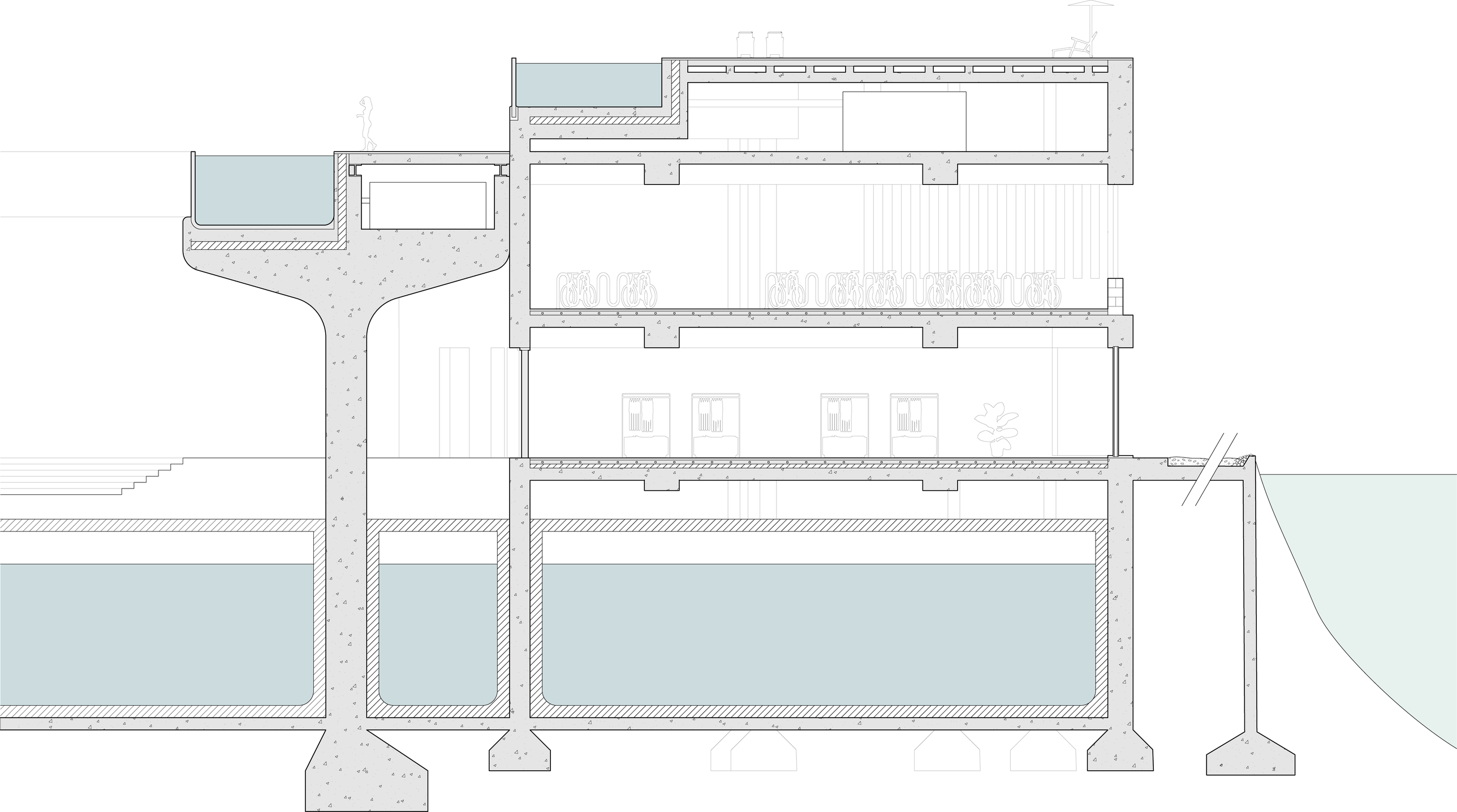
300MM SQUARE HOLLOW STEEL COLUMN

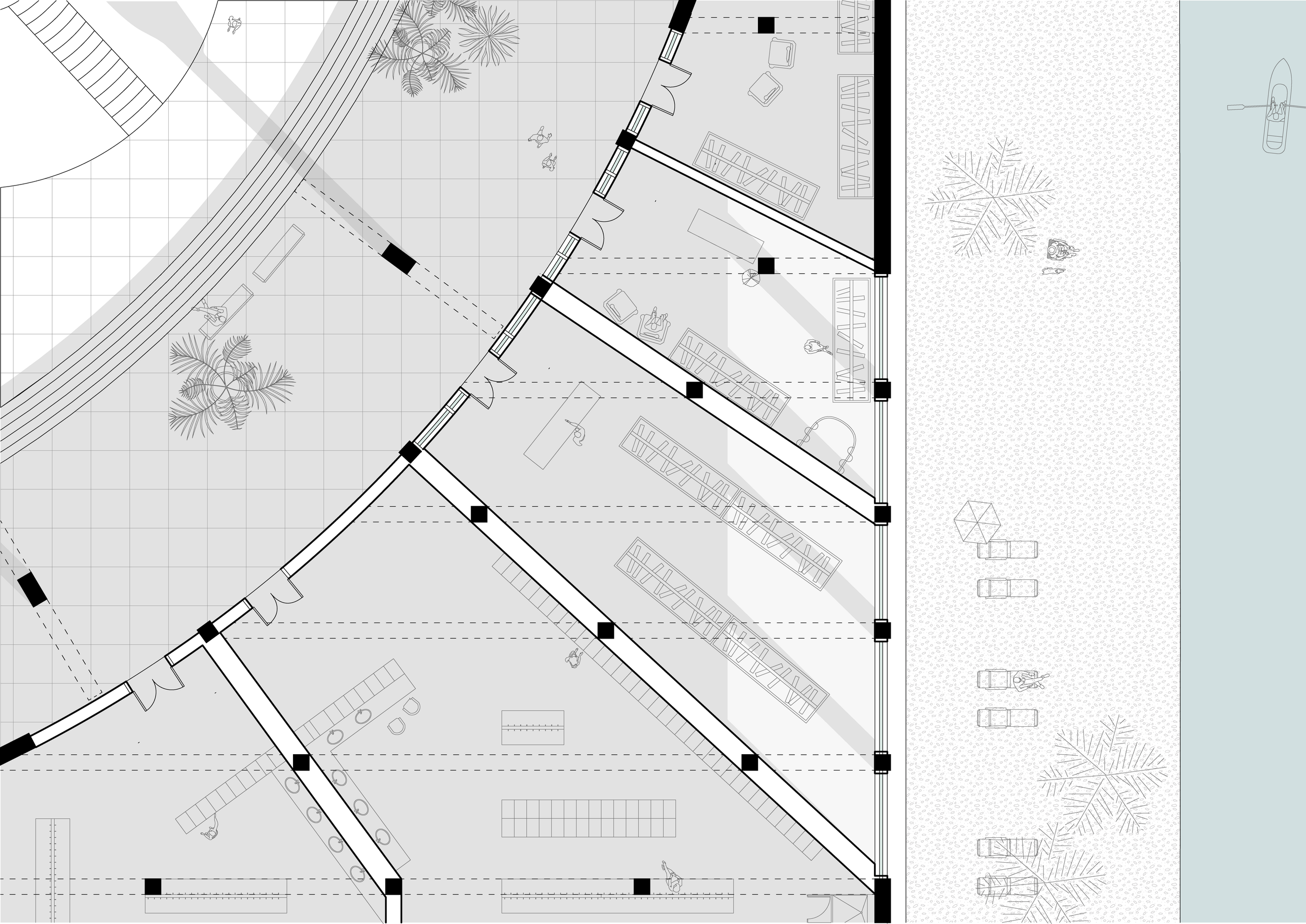

PHOTOVOLTAIC SOLAR PANEL
PROVIDES ELECTRICITY FOR LIGHTINGS
OPENABLE SKYLIGHT ALLOWS
VENTILATION IN SUMMER
224
105
MAX.
30°
10°
4000


ALUMINIUM
FRAME/GUTTER
WITH INSULATION
530
190
20
TRIODETIC JOINT
150
300MM SUPPORTING
H BEAM
300
150
300

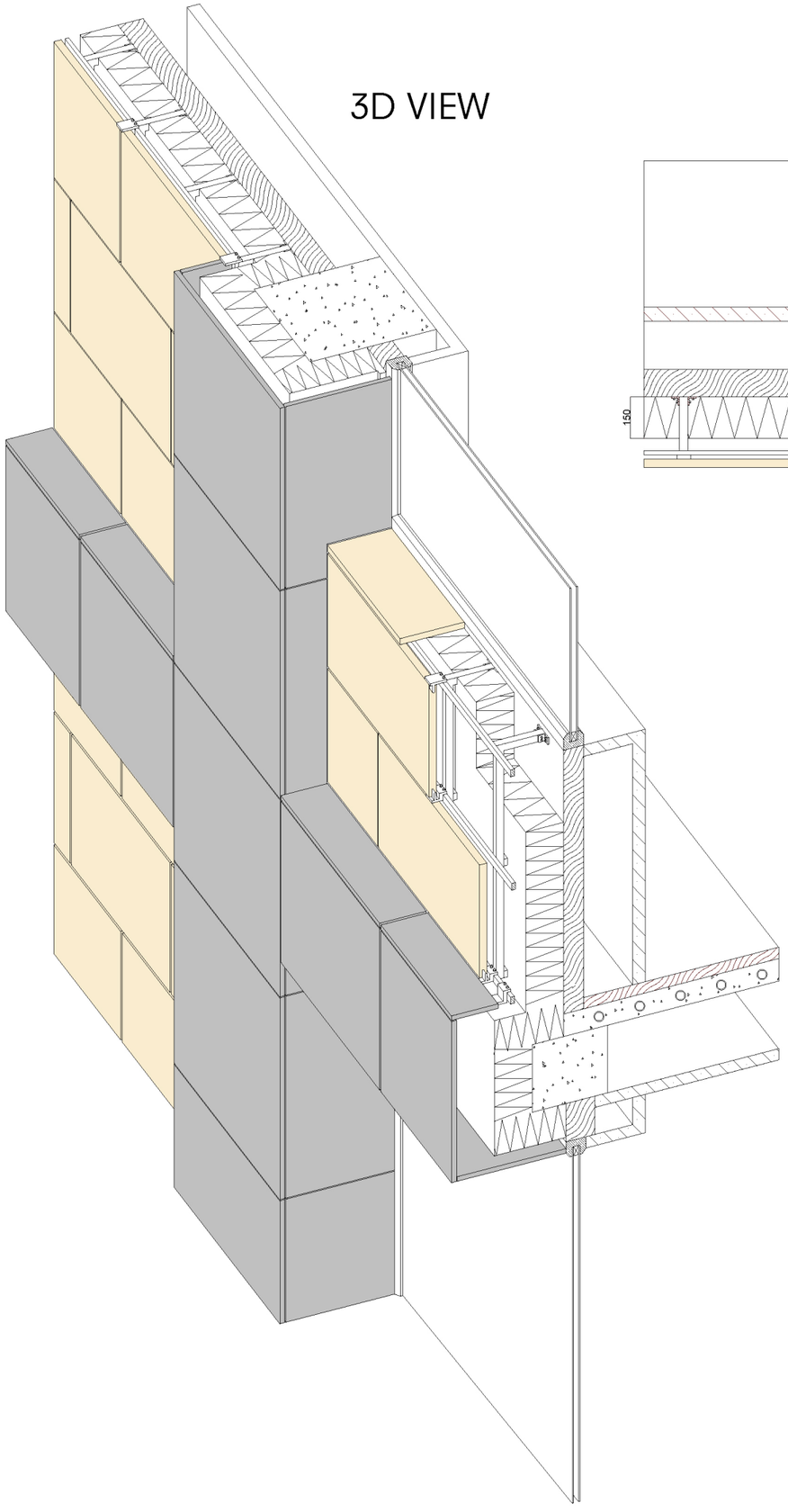

ALUMINIUM INSULATED FRAME
WITH GUTTER IN BETWEEN
390
180
150
150


20MM THICK DOUBLE GLAZING
WITH REFLECTIVE COAT
300
300MM SUPPORTING
H BEAM
300
CORNER FRAME WITH
INSULATION
20
105
225

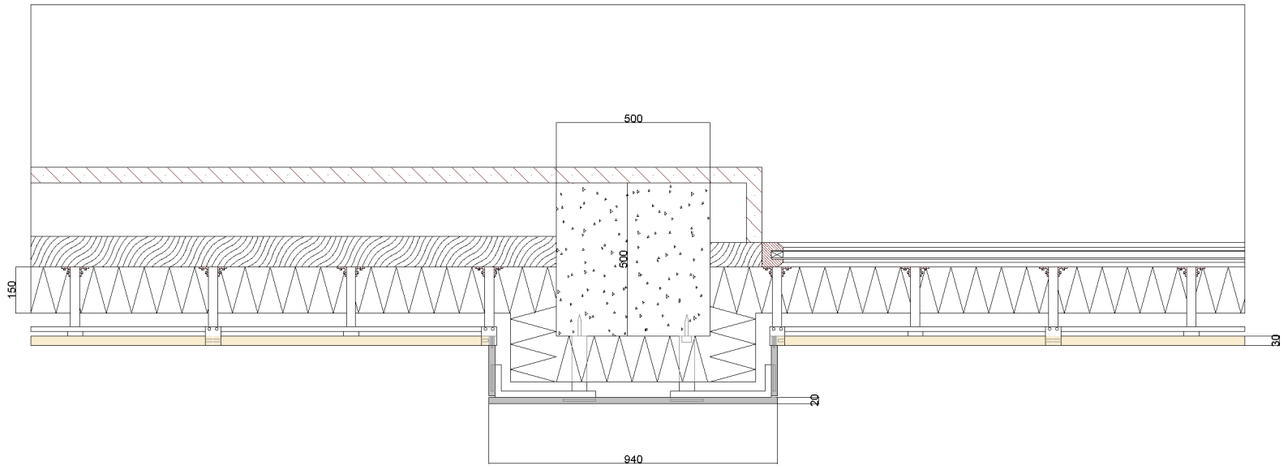




3D VIEW



HORIZONTAL VIEW



REINFORCED CONCRETE

80MM THICK MULTIPLEX

150MM THICK ROCKWOOL INSUALTION

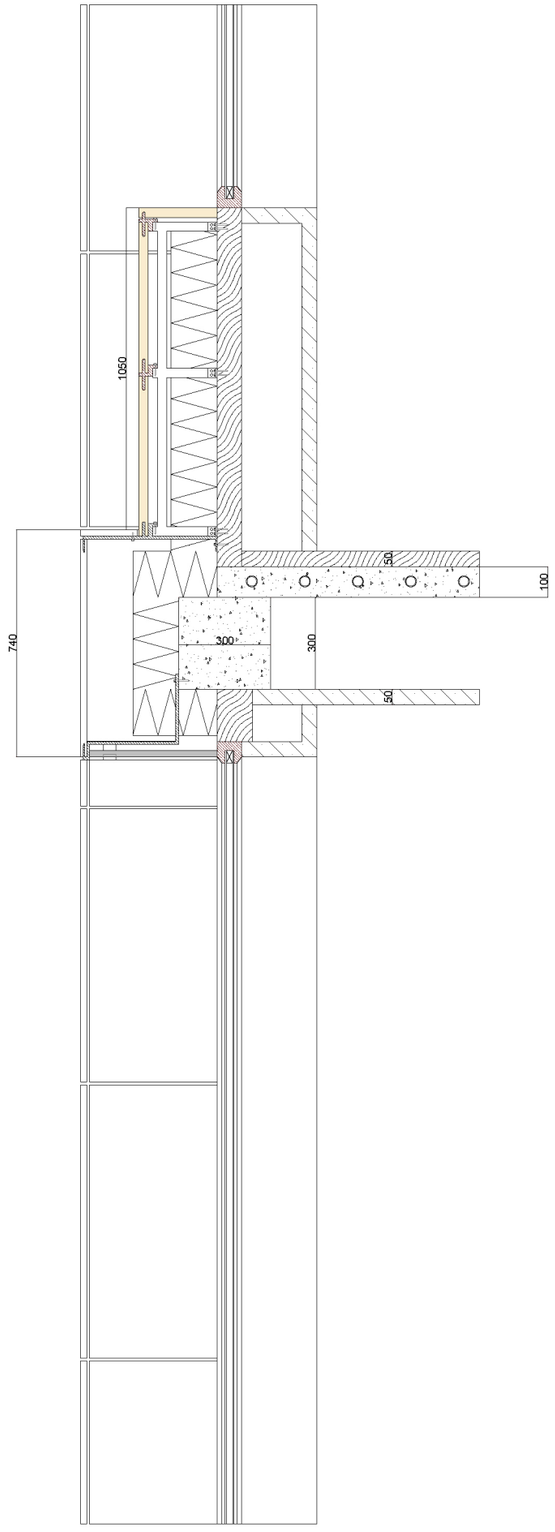
20MM THICK CEMENT FIBRE BOARD

30MM THICK STONE TILE

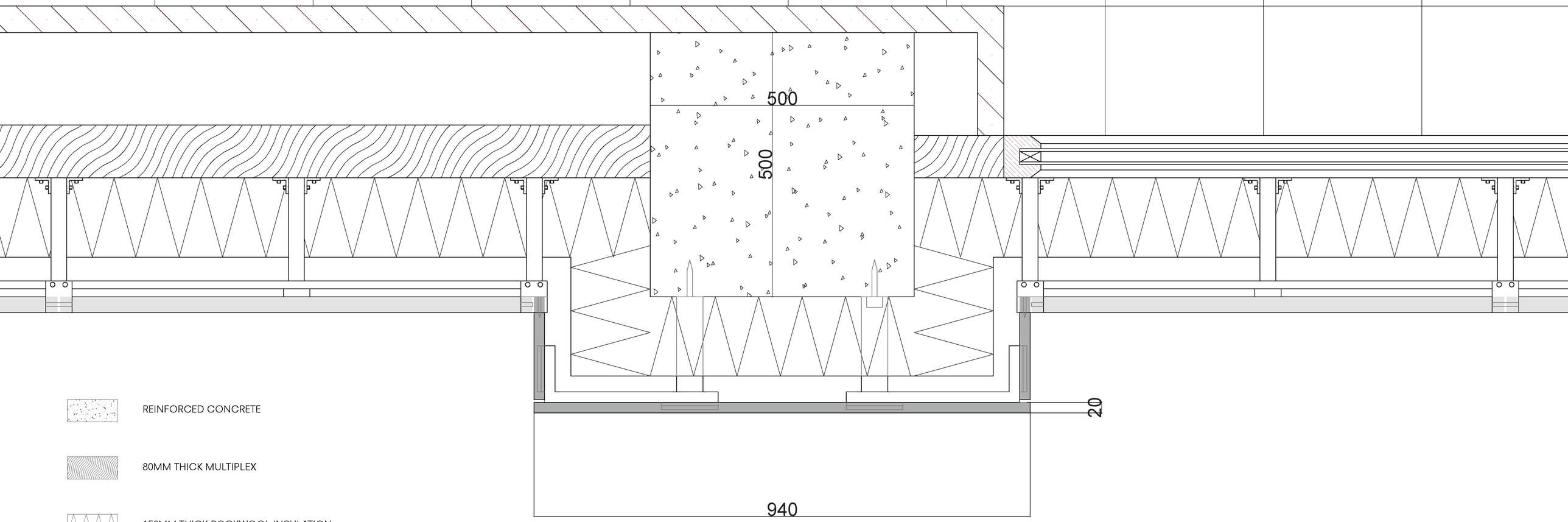
ALUMINIUM WINDOW FRAME

50MM THICK GYPSUM BOARD

SECTION



600X600MM CERAMIC FLOOR TILE



REINFORCED CONCRETE

80MM THICK MULTIPLEX

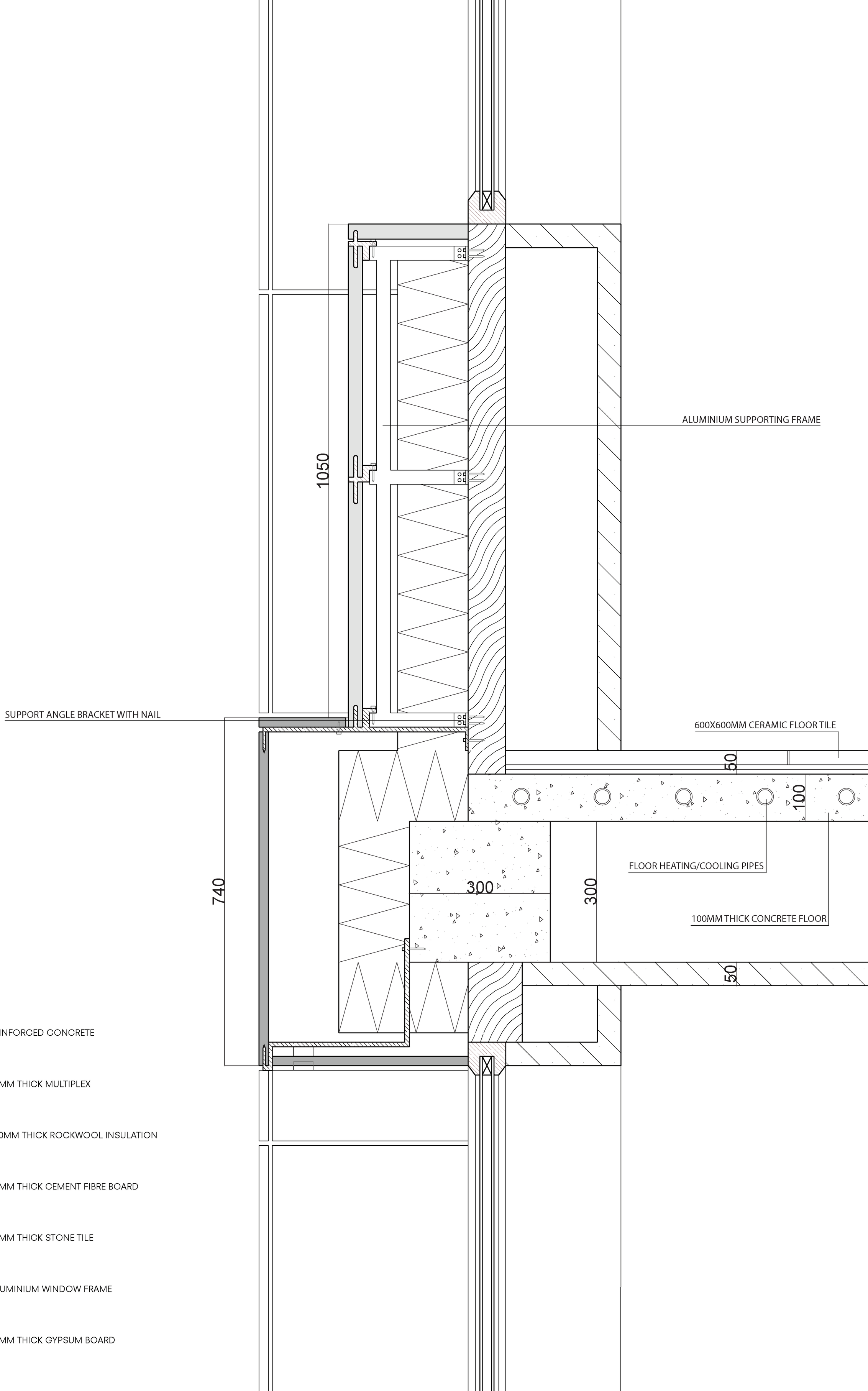
150MM THICK ROCKWOOL INSULATION

20MM THICK CEMENT FIBRE BOARD

30MM THICK STONE TILE

ALUMINIUM WINDOW FRAME

50MM THICK GYPSUM BOARD


ALUMINIUM SUPPORTING FRAME
1050
SUPPORT ANGLE BRACKET WITH NAIL
600X600MM CERAMIC FLOOR TILE
50
100
FLOOR HEATING/COOLING PIPES
740
300
300
100MM THICK CONCRETE FLOOR
50
REINFORCED CONCRETE
80MM THICK MULTIPLEX
150MM THICK ROCKWOOL INSULATION
20MM THICK CEMENT FIBRE BOARD
30MM THICK STONE TILE
ALUMINIUM WINDOW FRAME
50MM THICK GYPSUM BOARD

