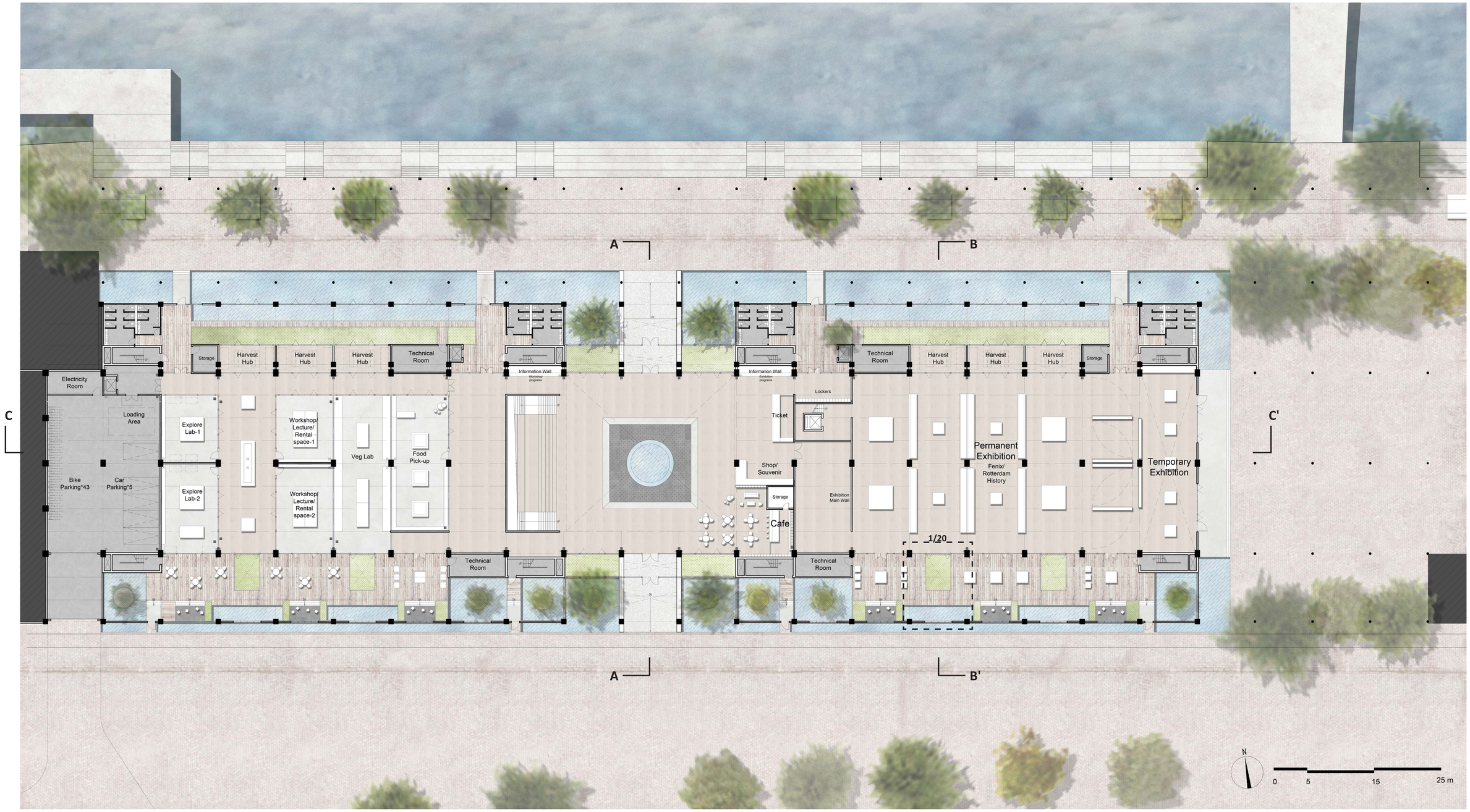
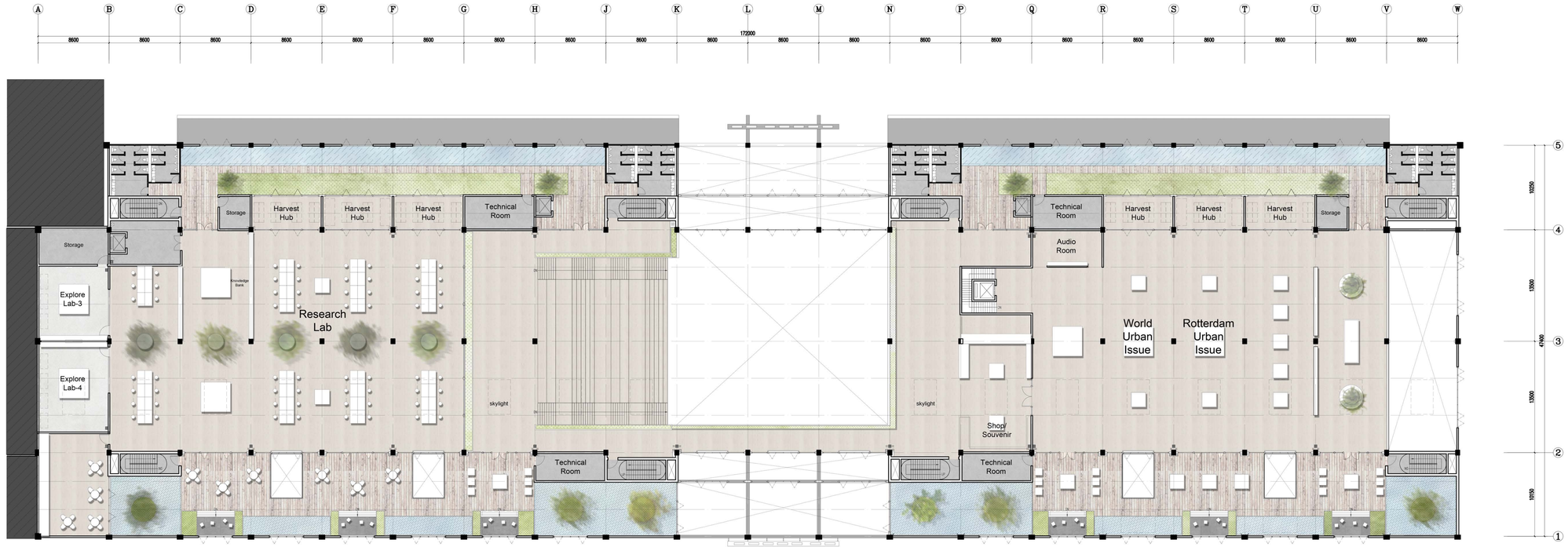
Intervention
1/200
Ground Floor



Intervention
1/200

North Facade

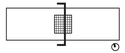


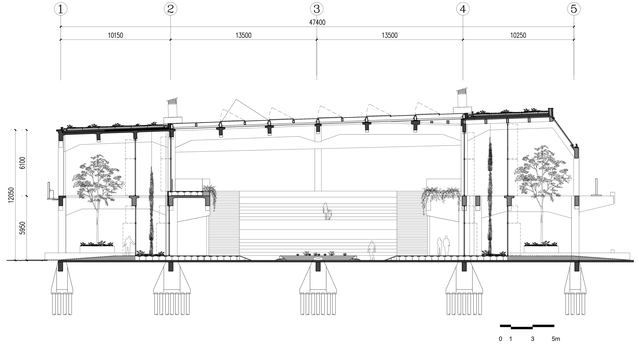
First Floor

South Facade

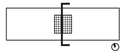
0 5 15 25 m

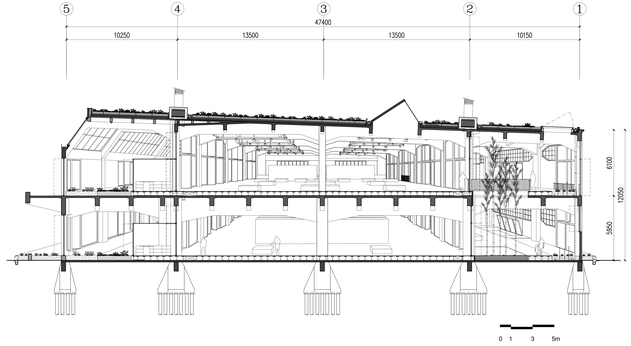
Intervention AA' Section 1/100



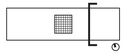


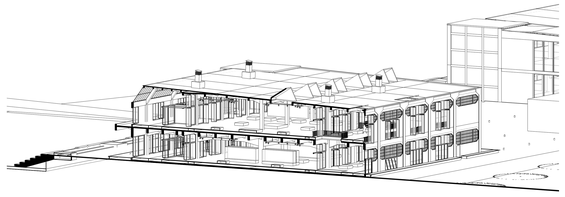
Intervention BB' Section 1/100



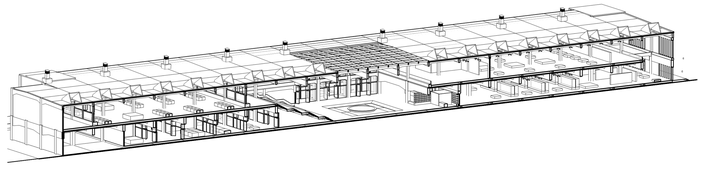


Axometrics 1

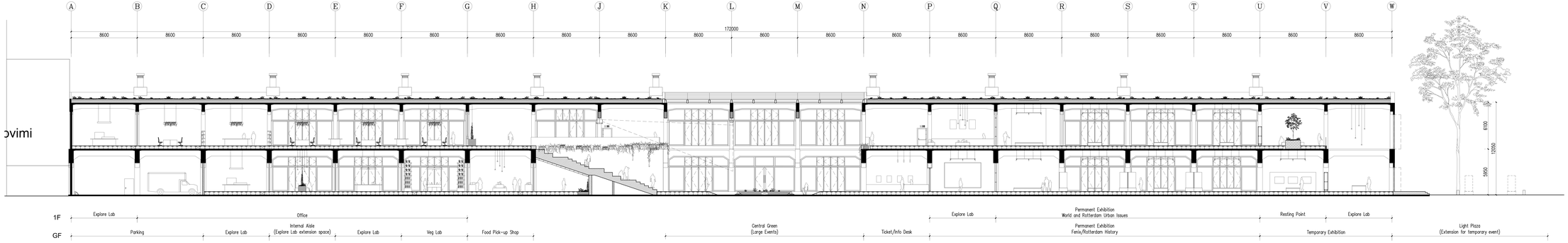




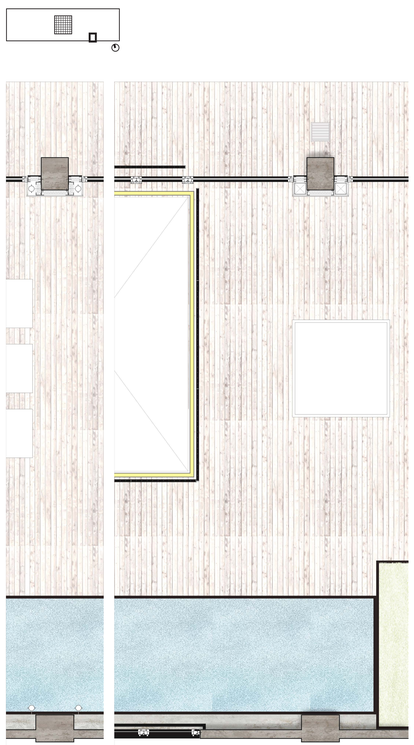
Axometrics 2

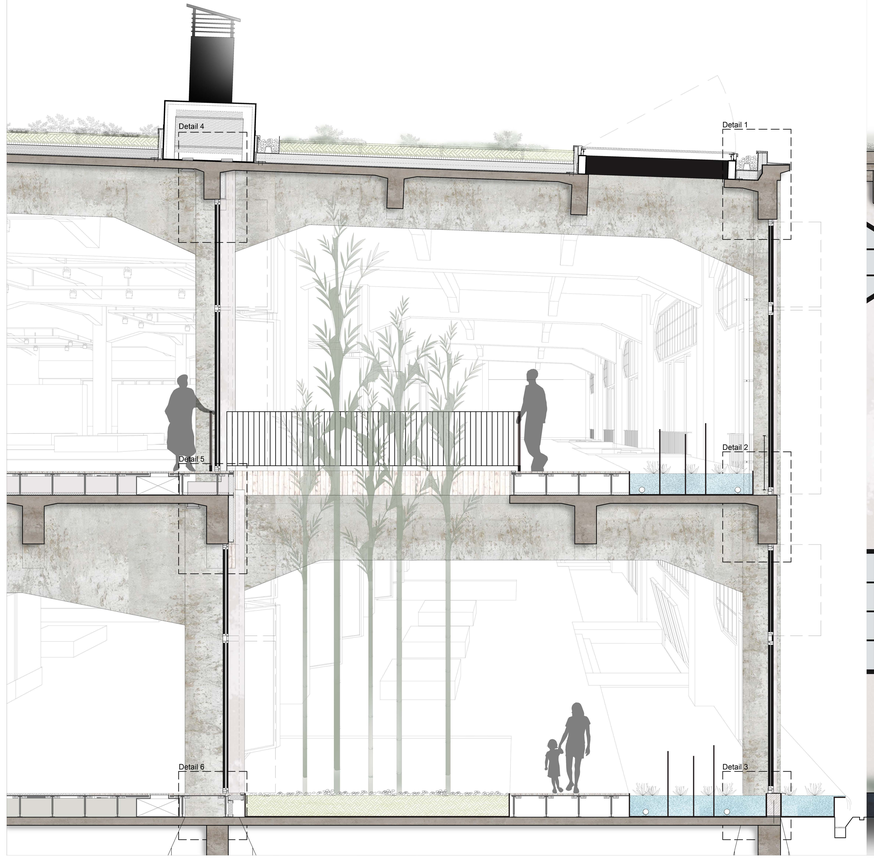


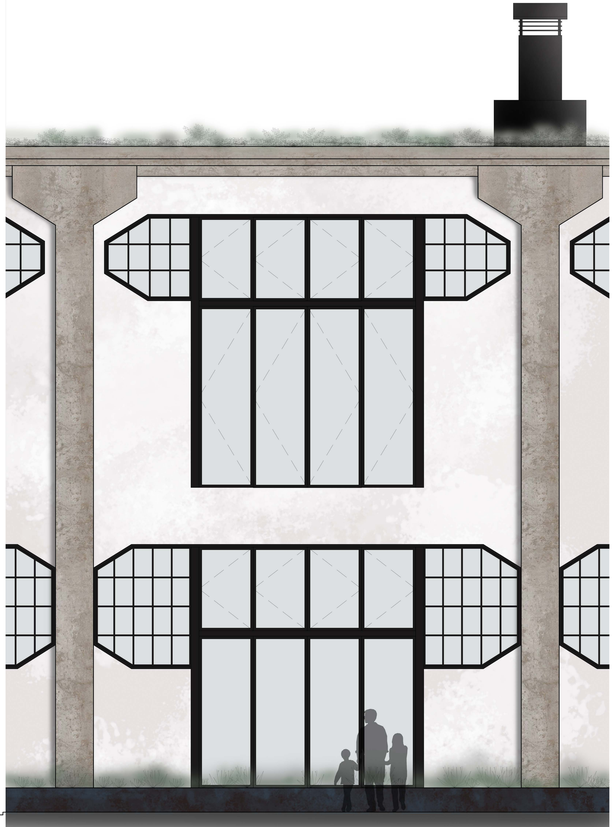
Intervention CC' Section 1/100



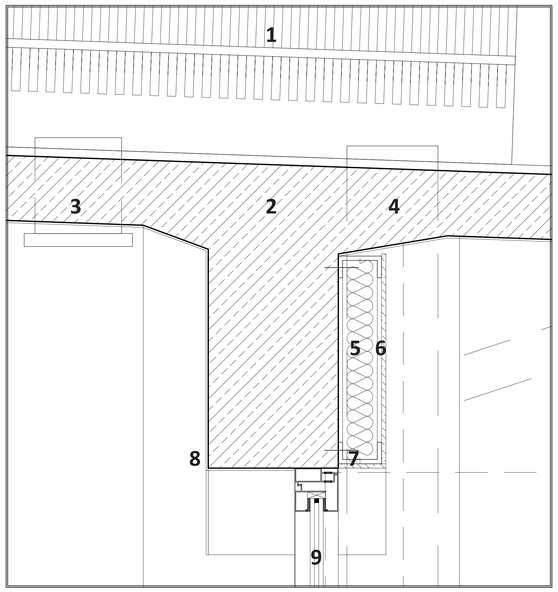
Intervention
1/20





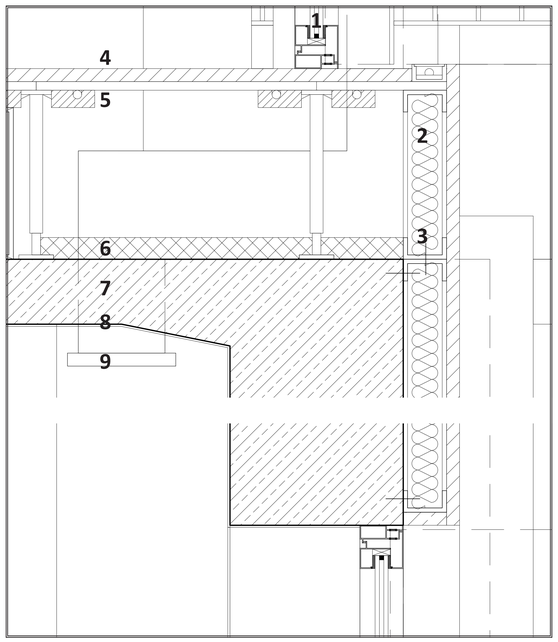


Intervention
1/5



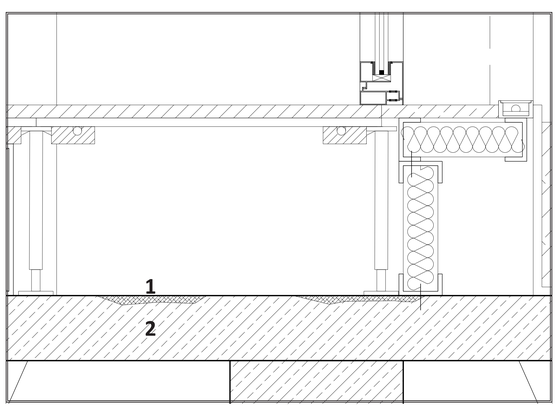
Detail 1

1 Heat exchange (air to water)
2 Existing structure- reinforced concrete
3 Air outtake 1F
4 Air outtake GF
5 Insulation XPS 100mm
6 Cement board 12 mm
7 C shaped aluminum
8 Clean and apply cement if stain unremovable
9 Double glazing



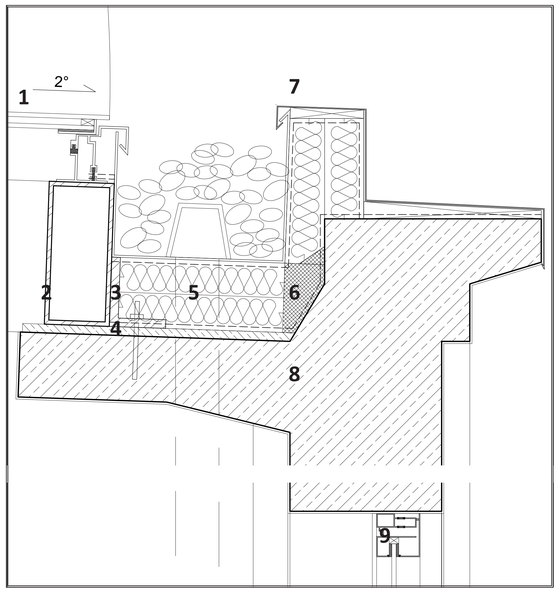
Detail 2

1 Double glazing
2 Insulation XPS 100mm
3 C-shaped aluminum
4 Wooden flooring
5 Floor heating
6 Sound insulation
7 Existing structure- reinforced concrete
8 Clean and apply cement if stain unremovable
9 Air outtake GF



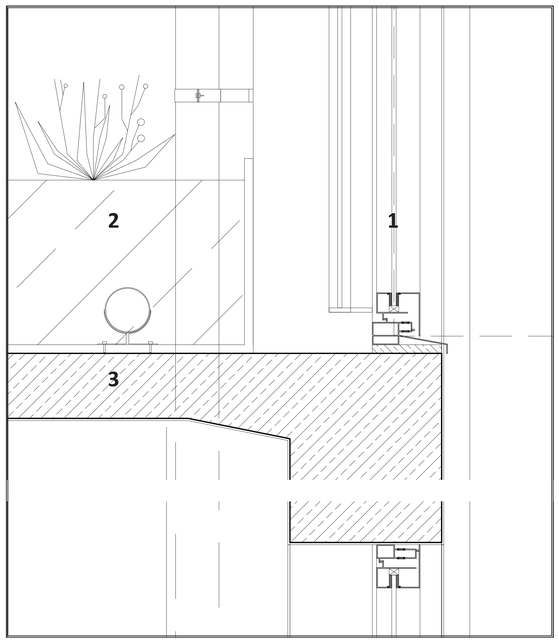
Detail 3

1 Polymer mortars for larger damage
2 Existing foundation- reinforced concrete



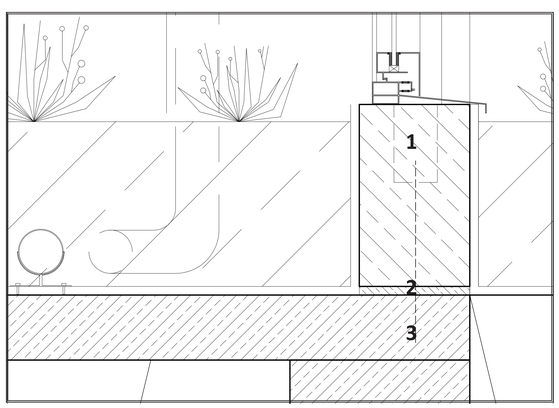
Detail 4

1 Aluminum double glazing window frame with existing 2° roof slope
2 HSS. 150mm 50 mm 7mm
3 L-shaped steel. Equal angle 150mm
4 Leveling cement if needed
5 Insulation XPS 100mm
6 Foam sealant
7 Aluminum flushing
8 Existing structure- reinforced concrete
9 Original steel window frame. Needed to be retreated and reinstalled



Detail 5

1 Single glazing
2 Water tank (The water is used for controlling incoming air temperature and humidity. Water temperature range is from 15°C -23°C, year round.)
3 Existing structure- reinforced concrete



Detail 6

1 Prefabricated concrete base
2 Leveling cement if needed
3 Existing structure- reinforced concrete