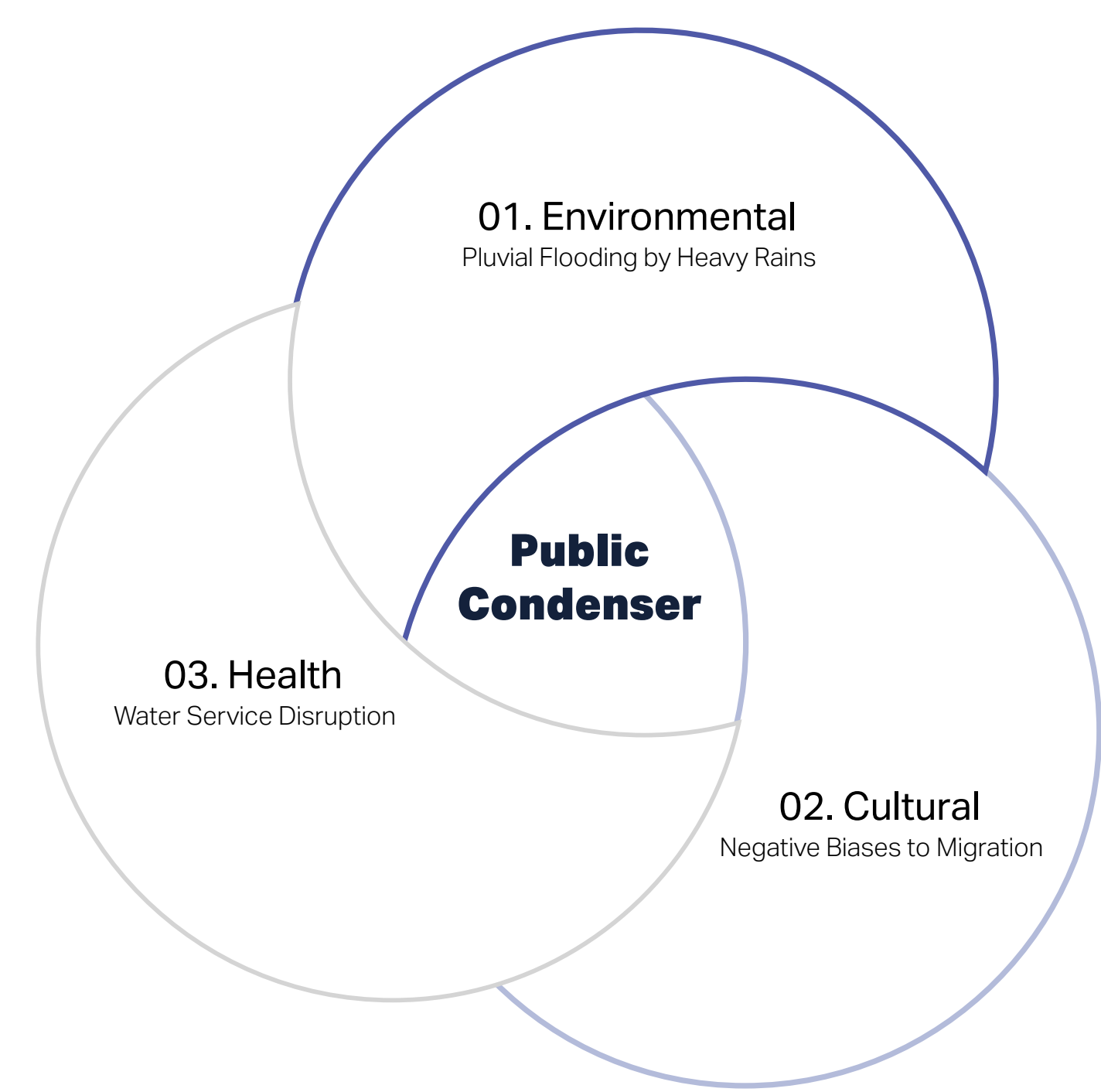


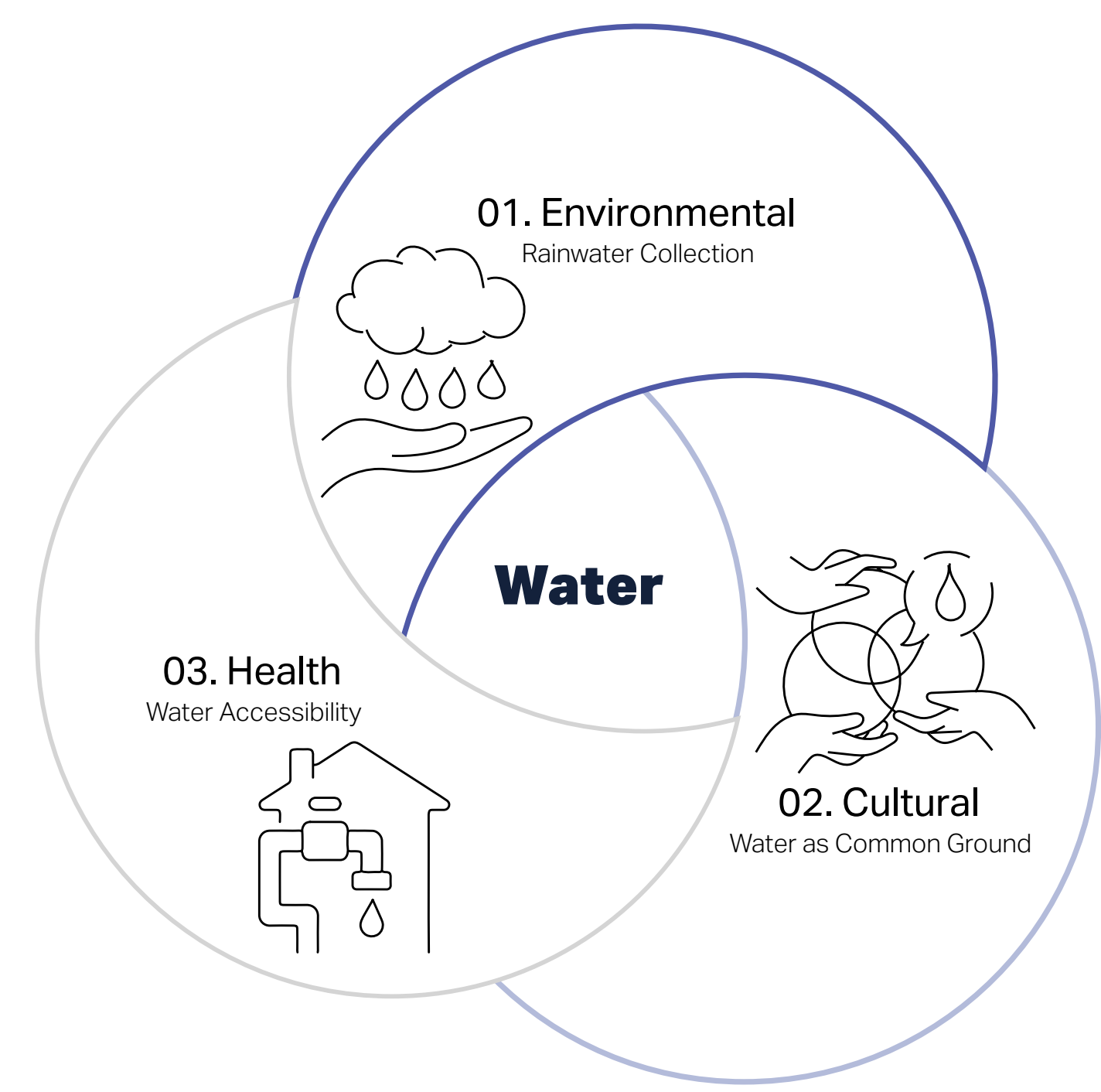
THE WATER HUB

Celebrating Diversity Through a Water Infrastructure

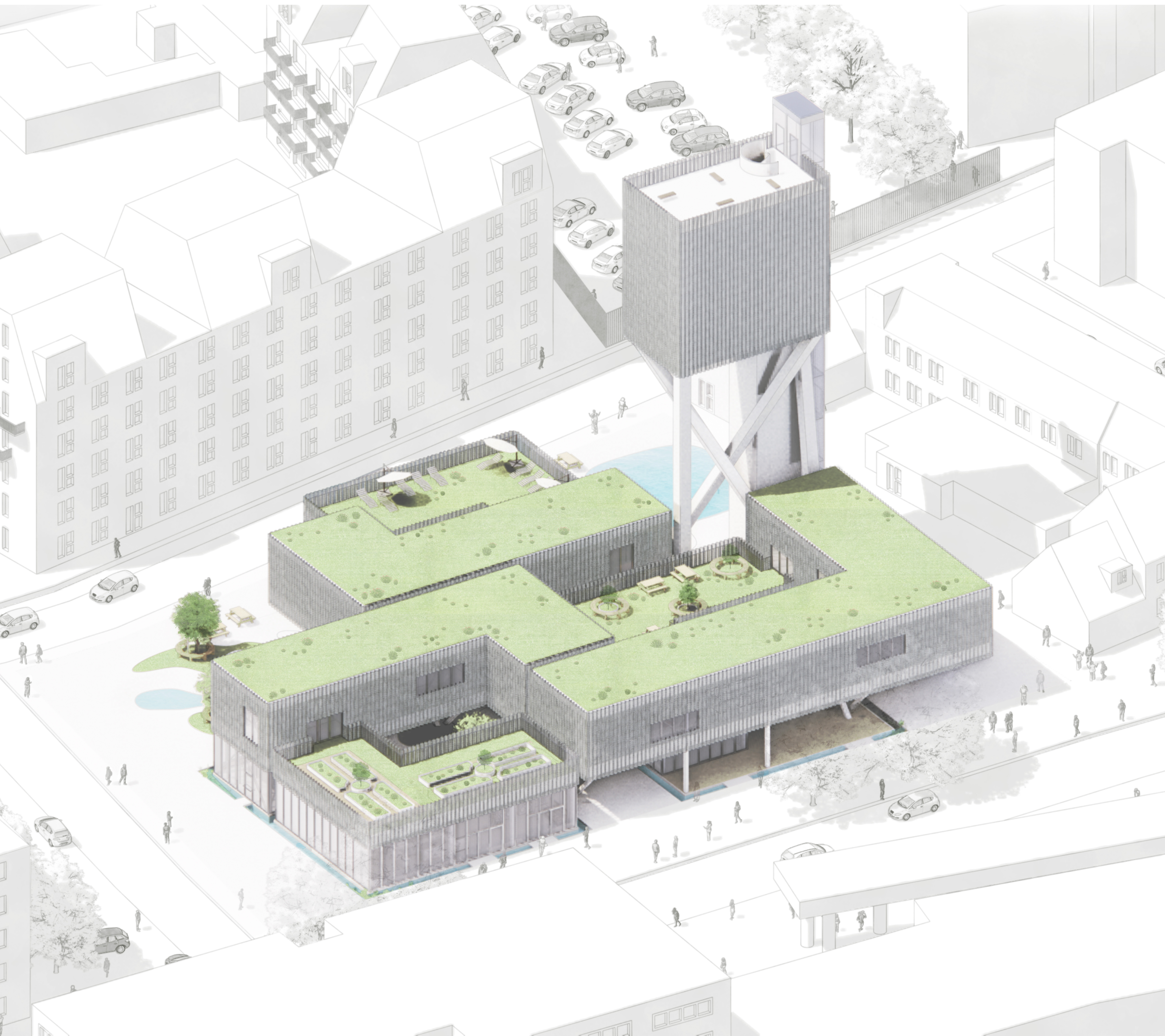
Problem Statement



Solution Statement



Concept

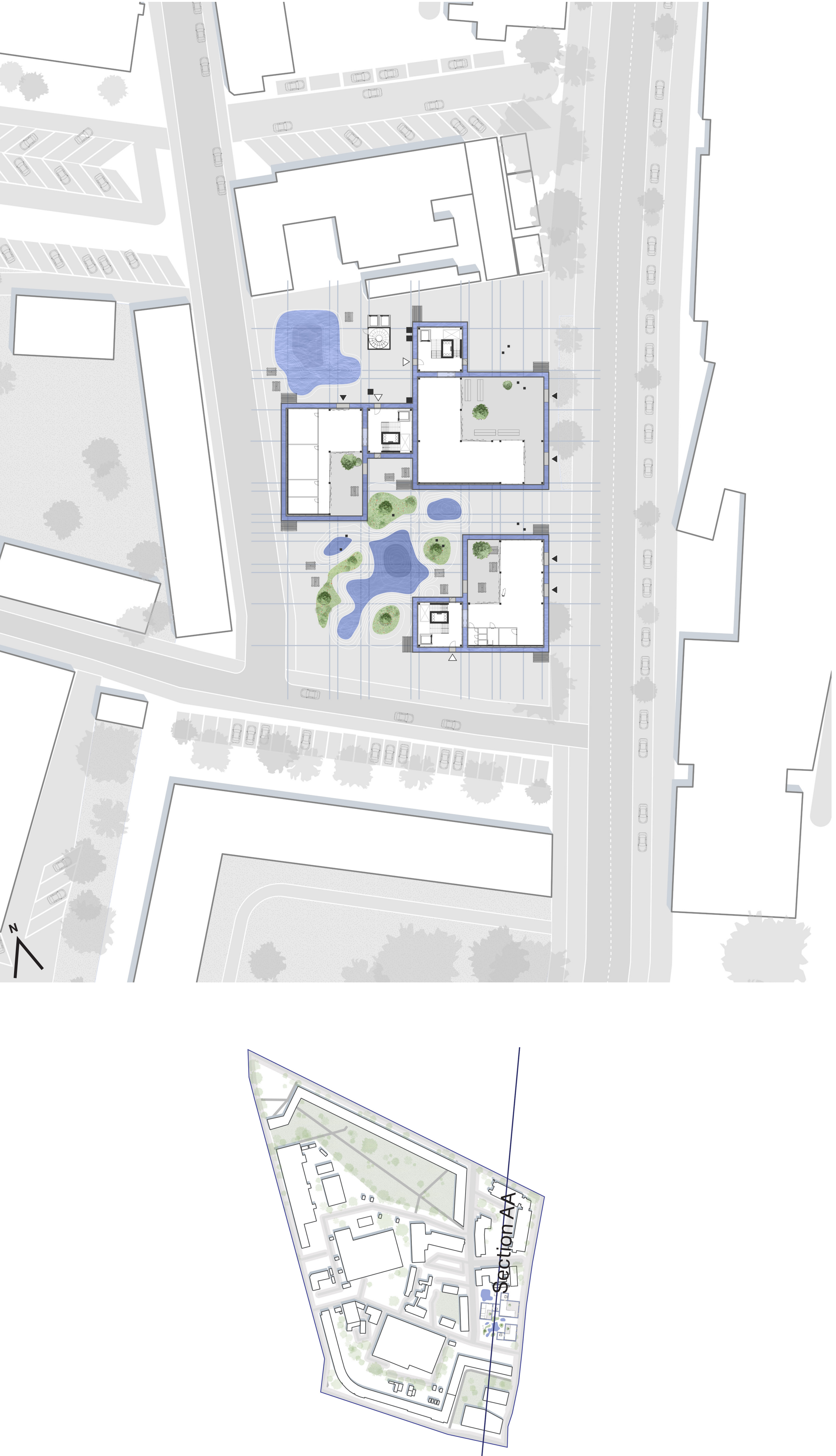


THE CONTEXT

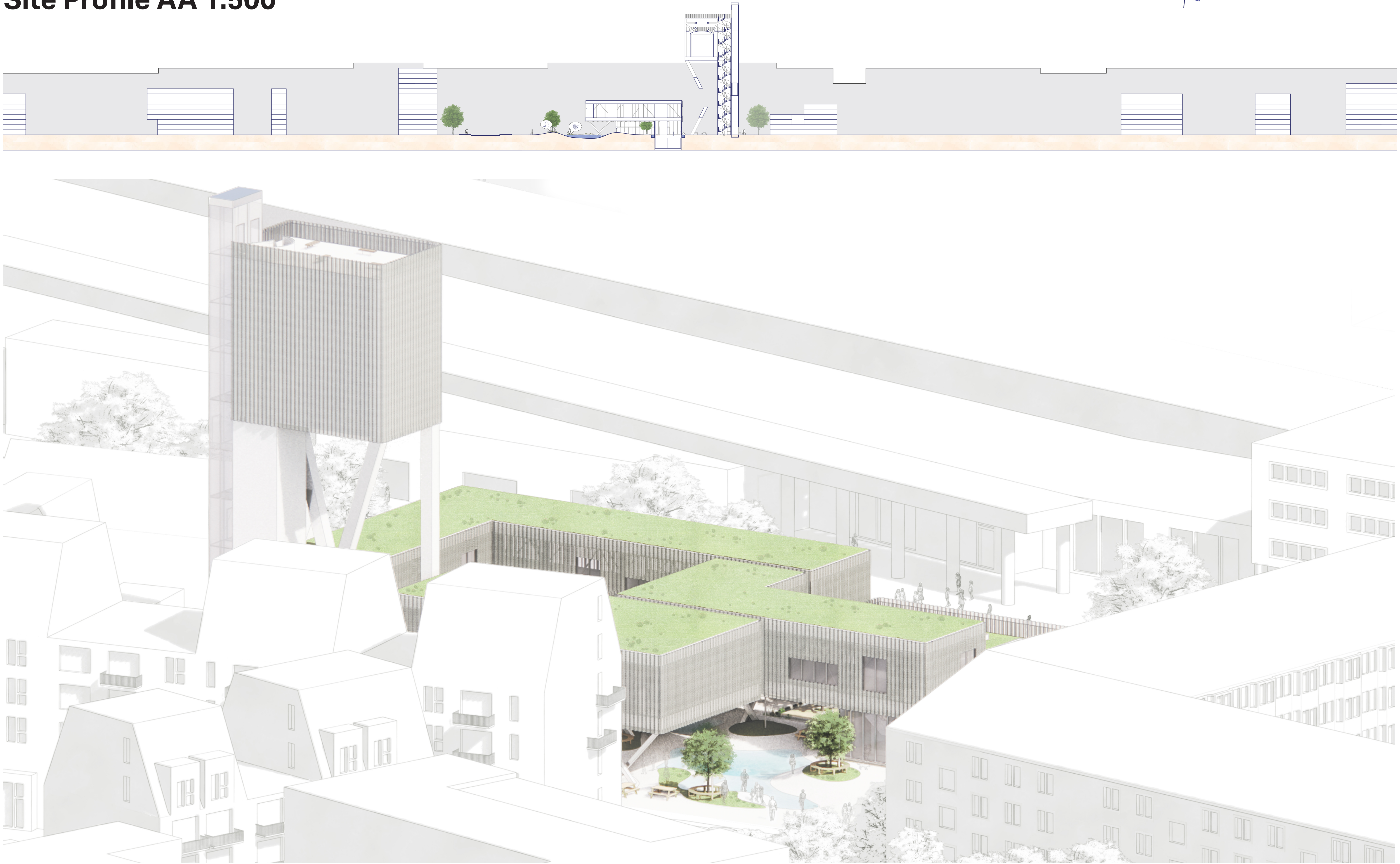
Urban Flows 1:1000



Accessibility 1:500

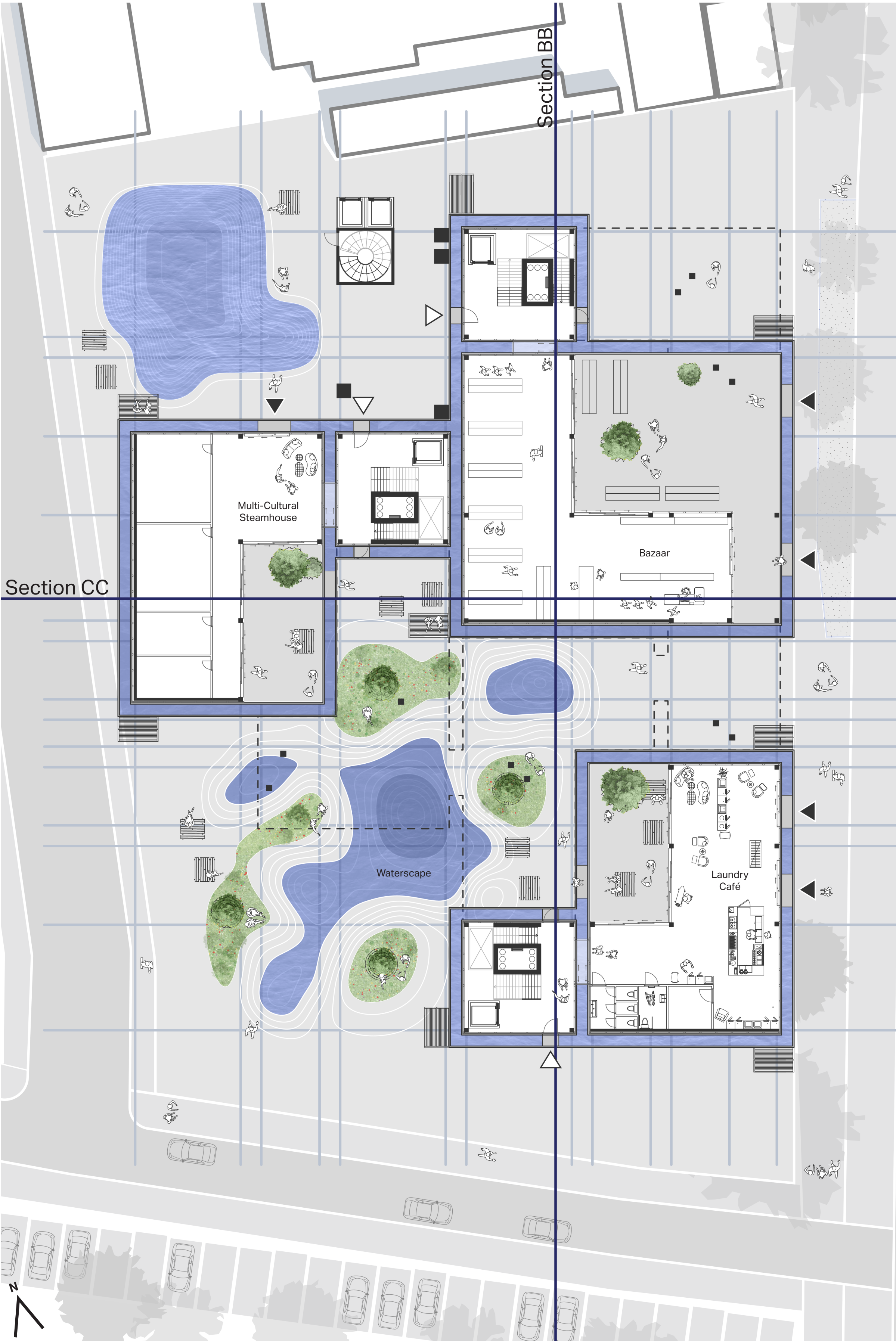


Site Profile AA 1:500

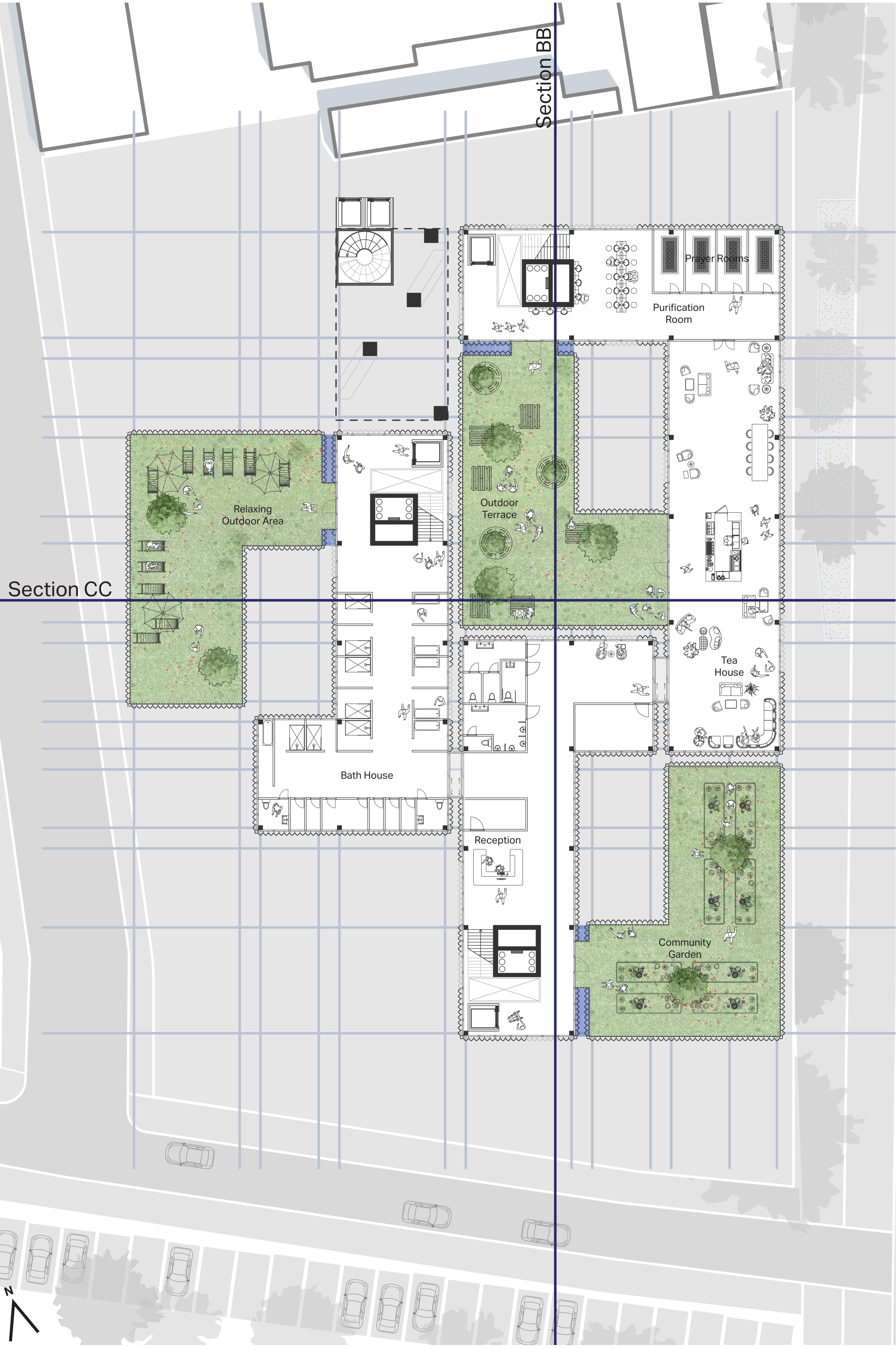


THE DESIGN

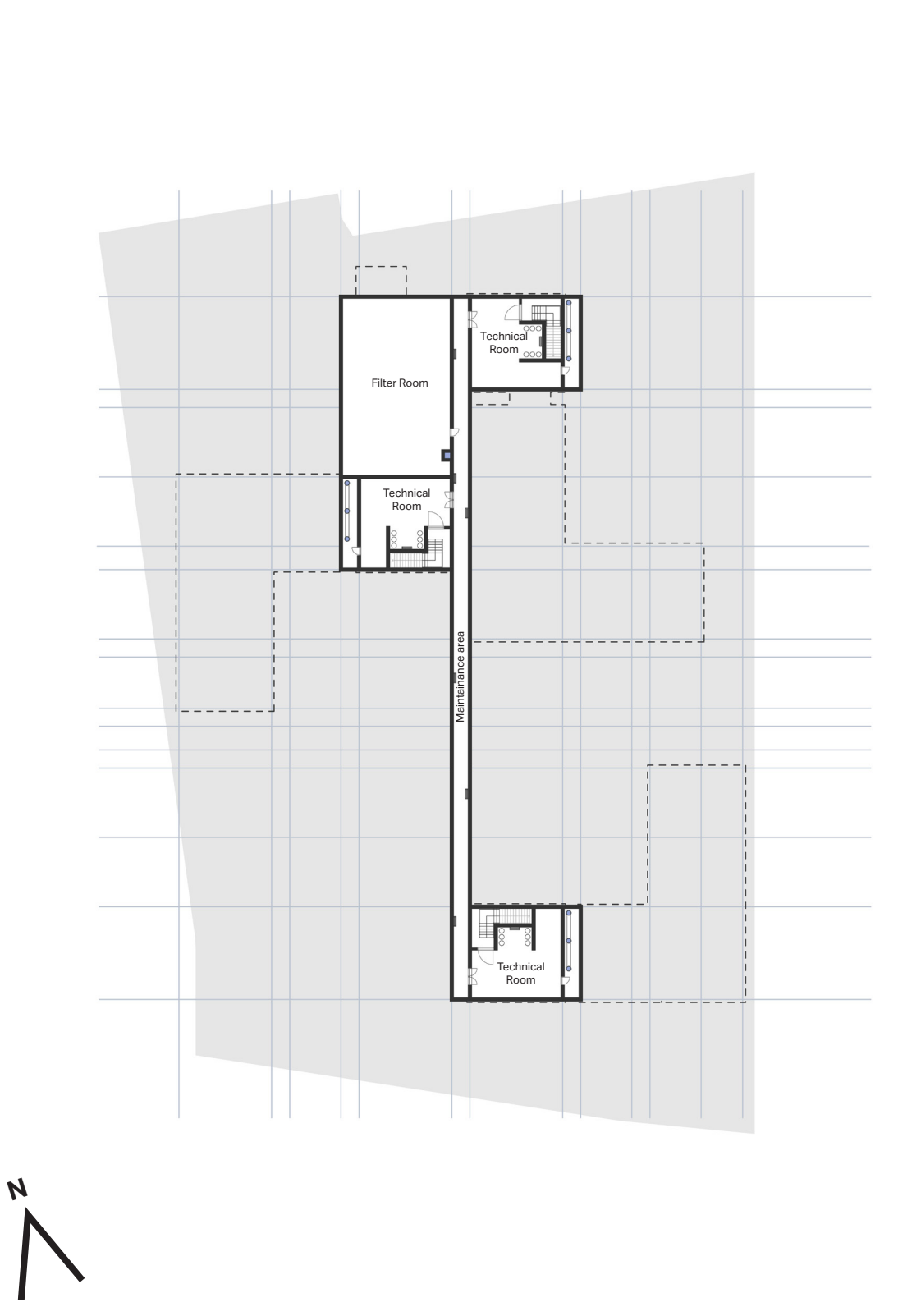
Ground Floor 1:200



First Floor 1:200



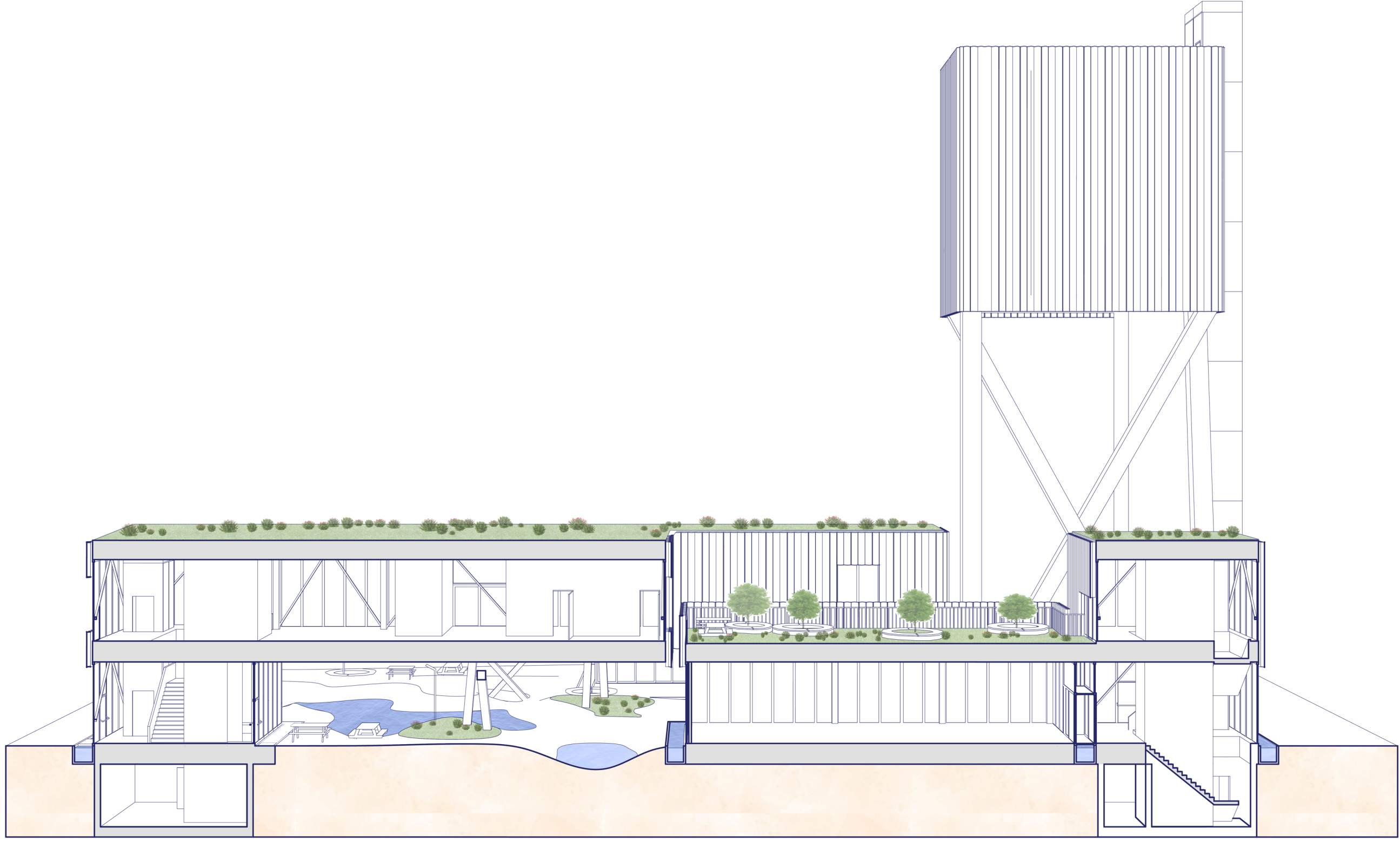
Basement 1:500



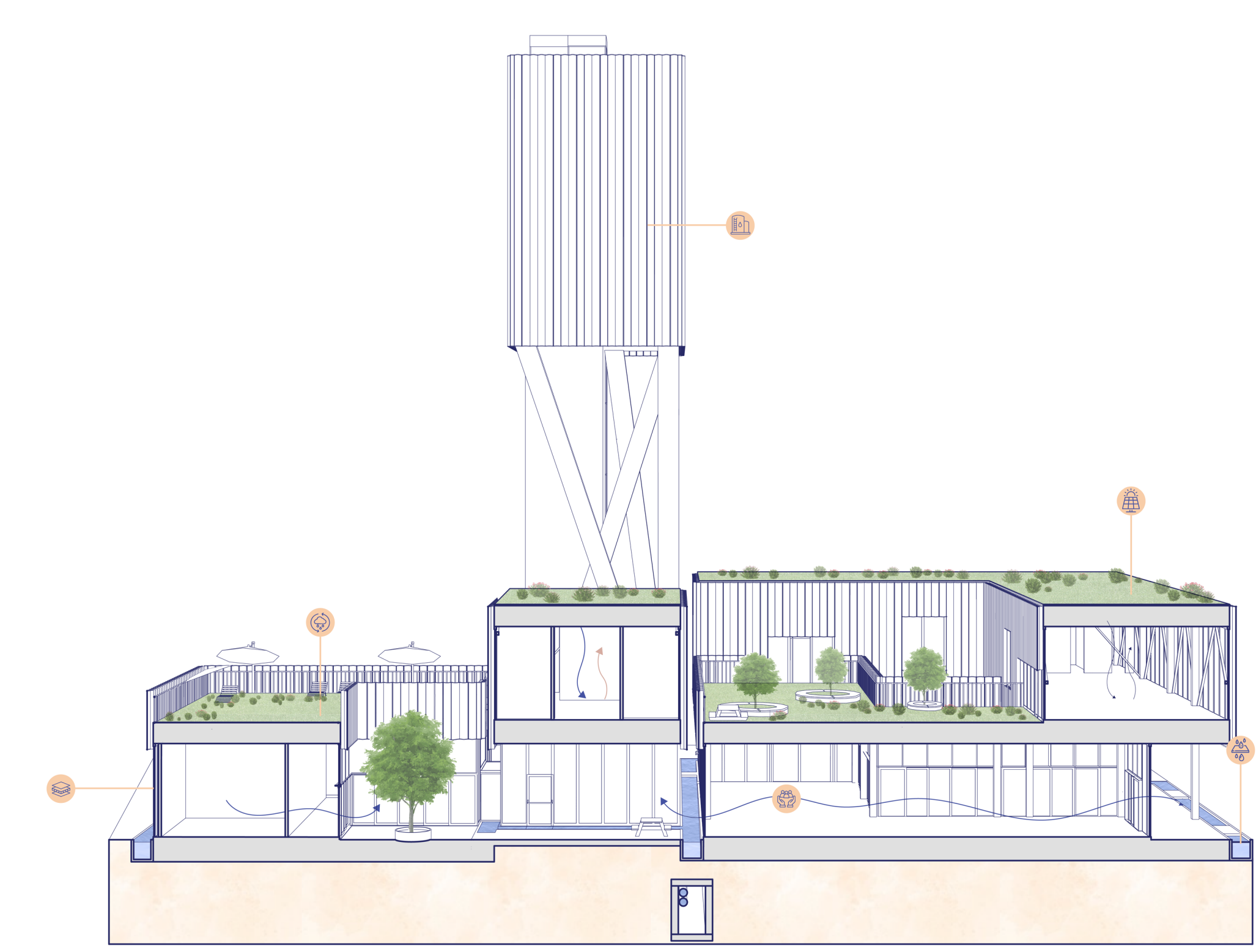
Fourth Floor 1:500



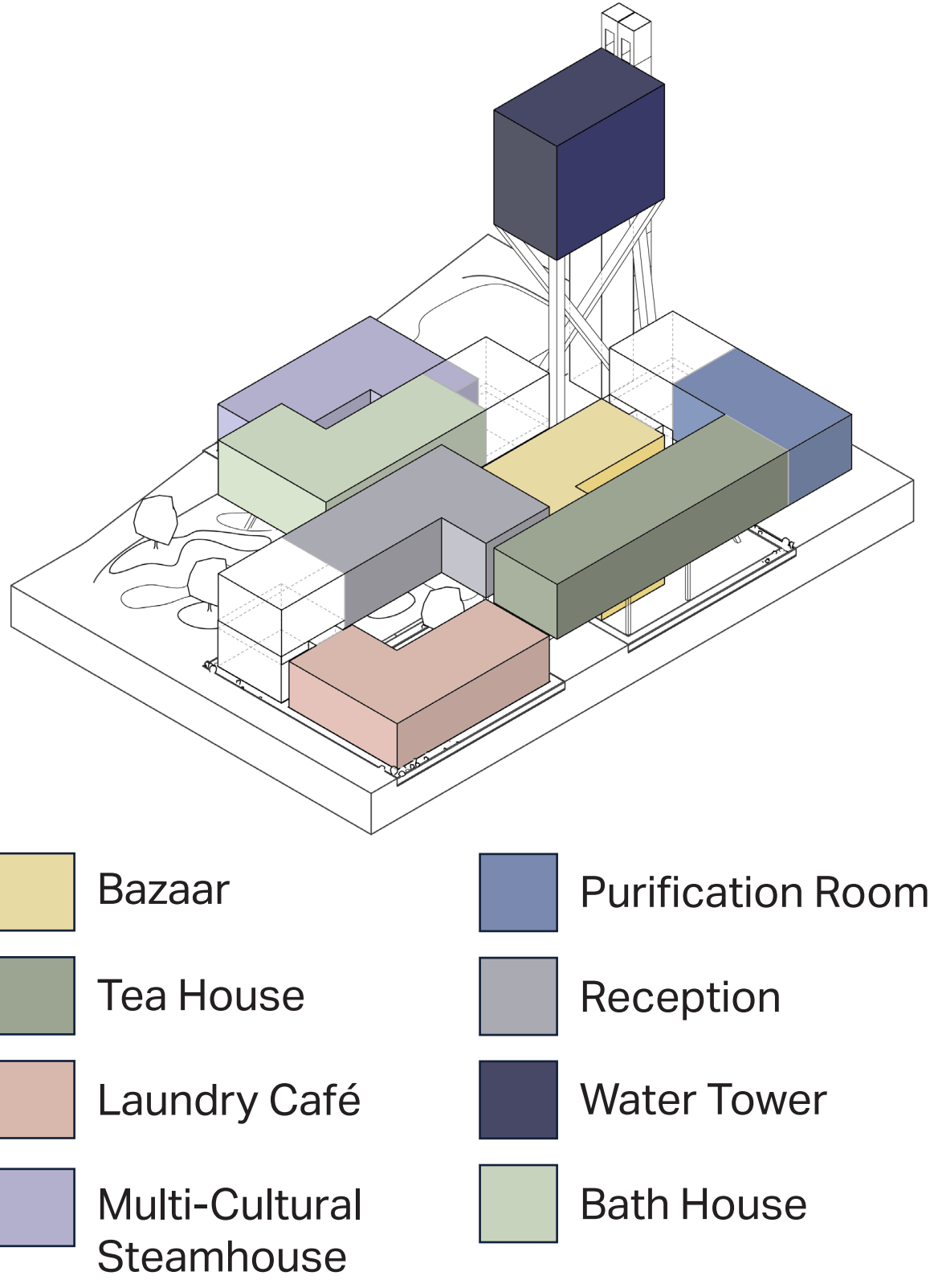
Section BB 1:200



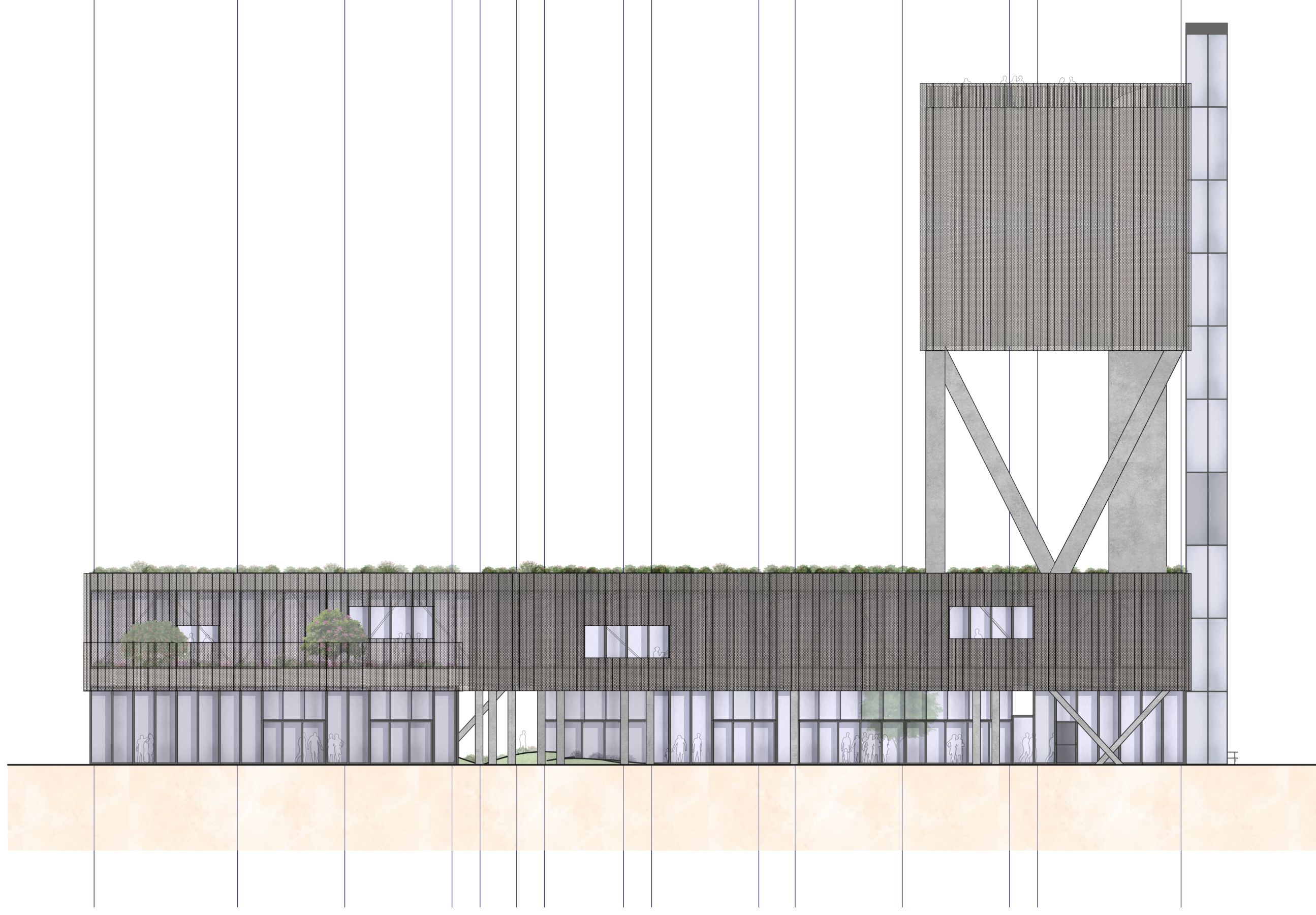
Section CC 1:200



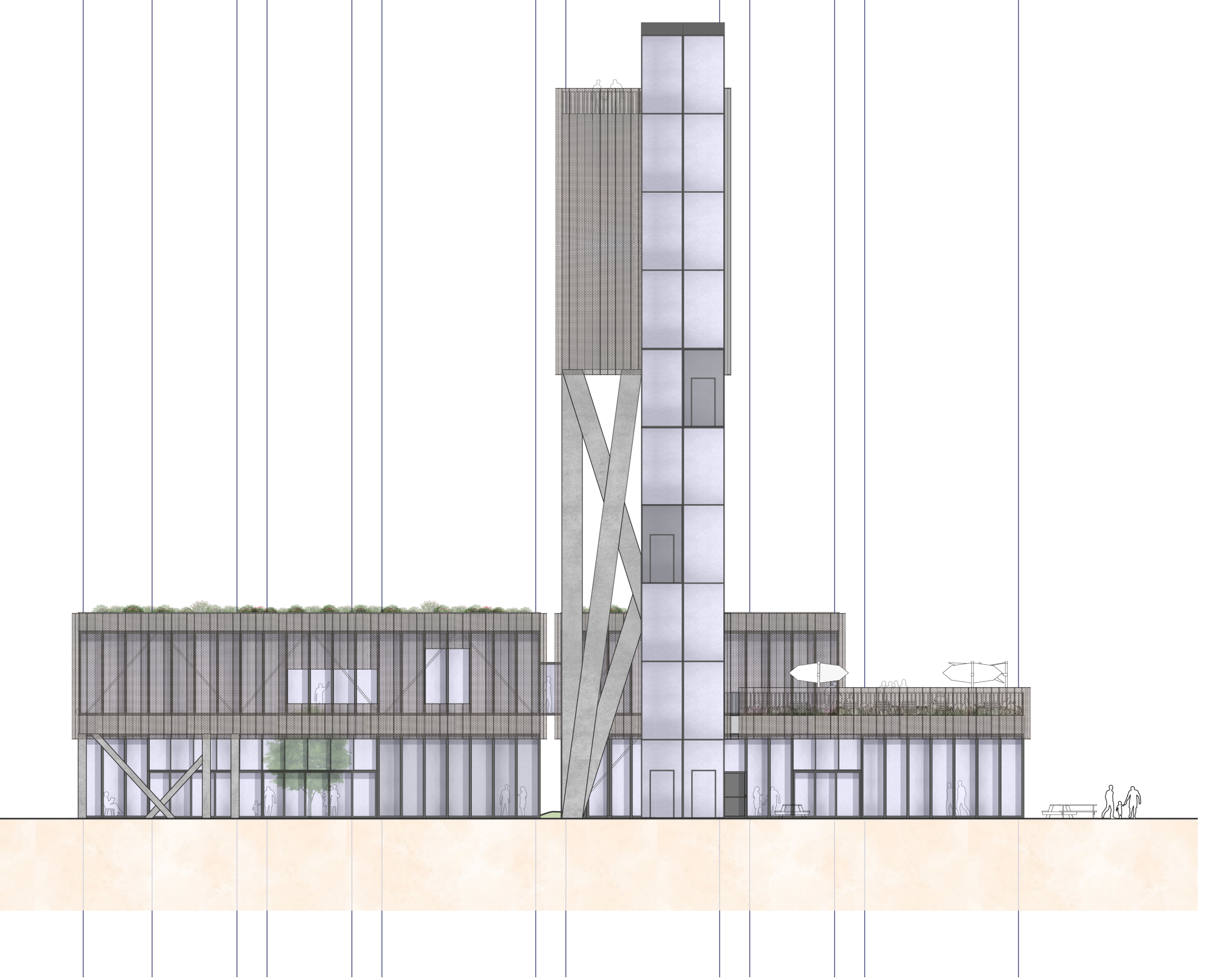
Program



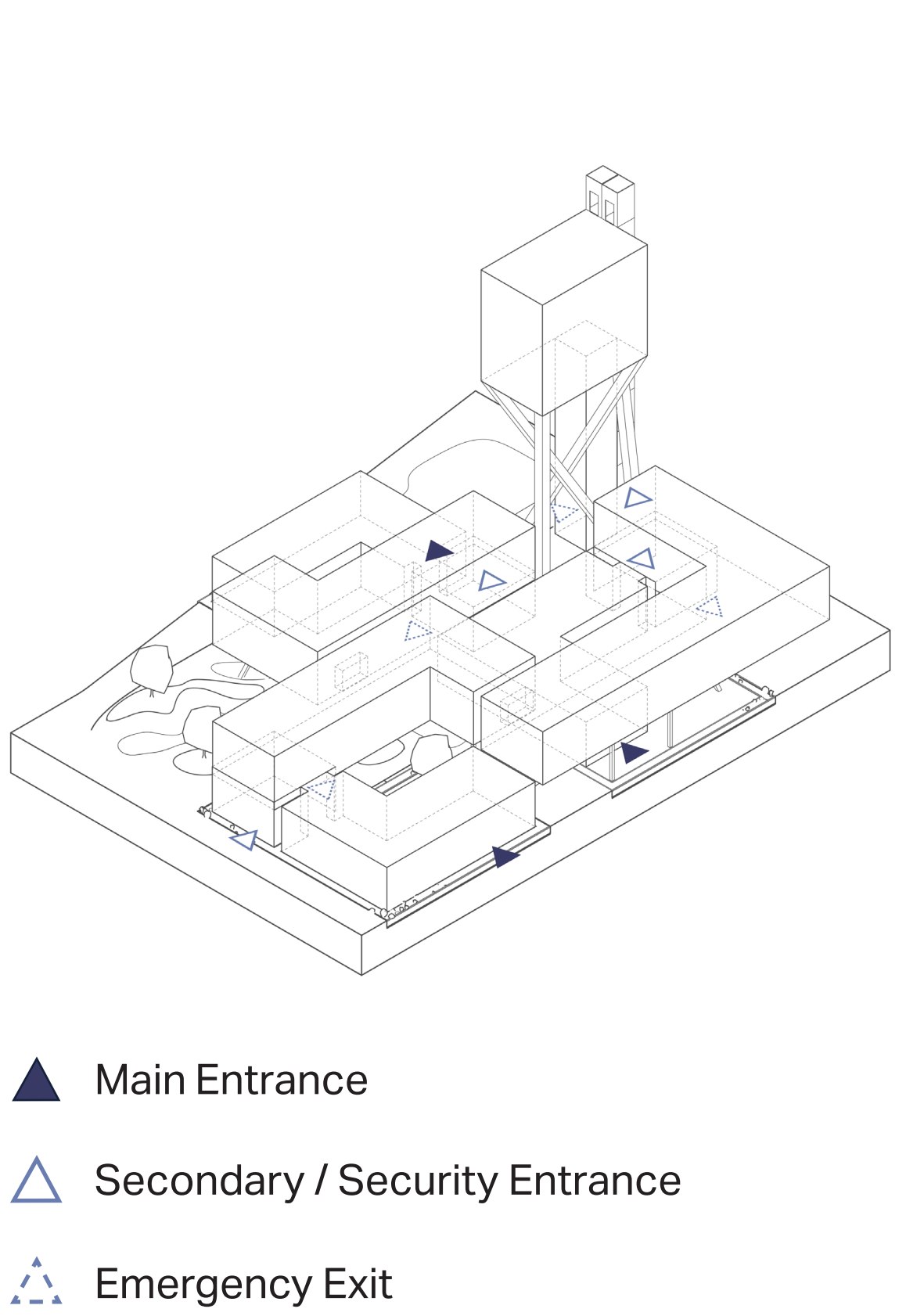
East Facade 1:200



North Facade 1:200

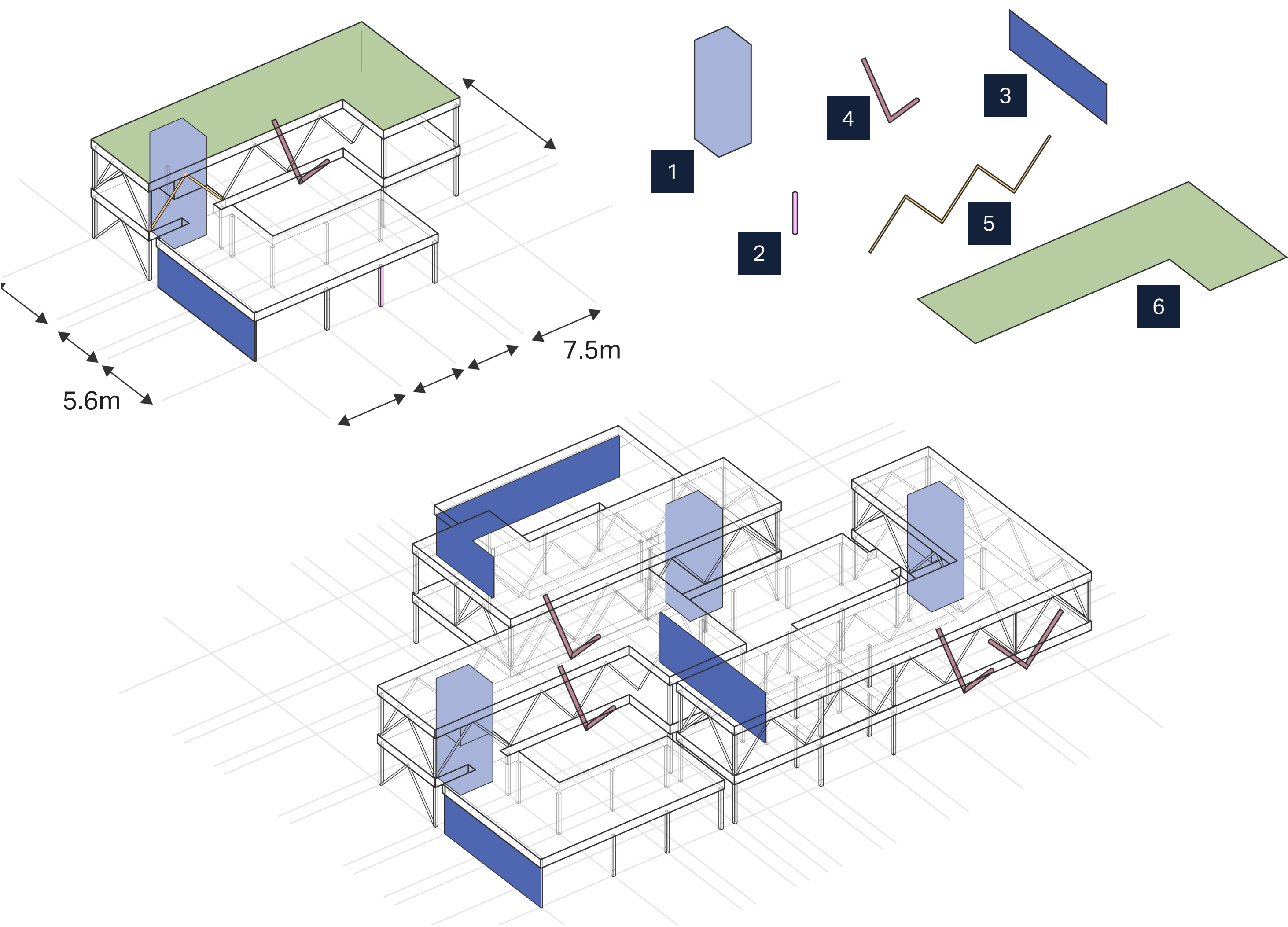


Entrances

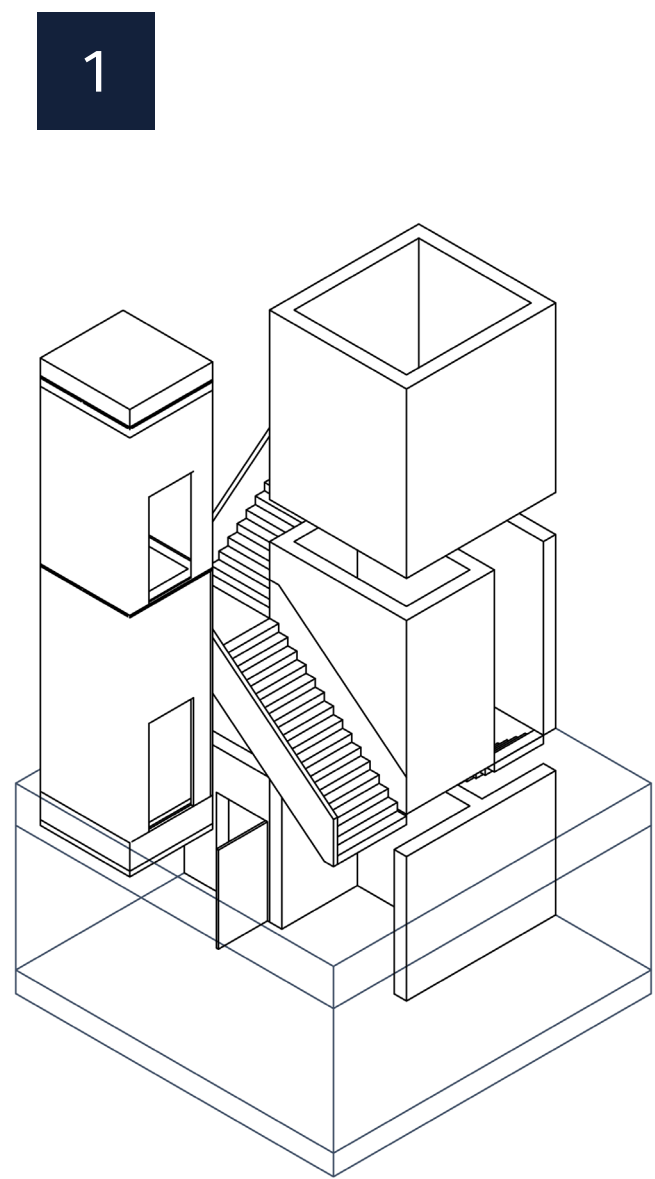


THE TECHNOLOGY

Structural Axo



- 1 Concrete Core with room for Technical Facilities
- 2 HEB280 Columns in a Grid of 7,5m/5,6m
- 3 Concrete Bricks on Southern/West Facade (Trombe Wall)
- 4 V-Columns to support First Floor
- 5 (Wind) Braces to increase Structural Stiffness on First Floor
- 6 Roofs are reinforced to transfer Wind Forces efficiently



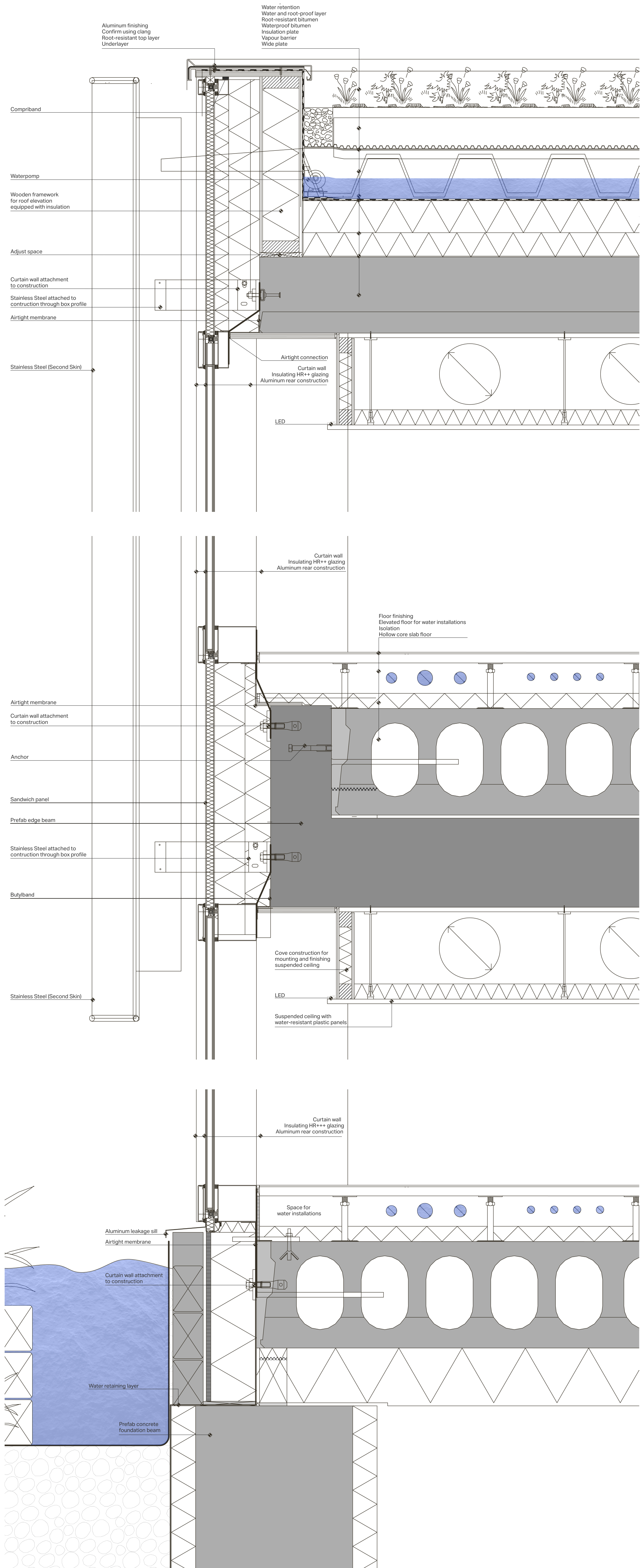
West Facade 1:200



South Facade 1:200

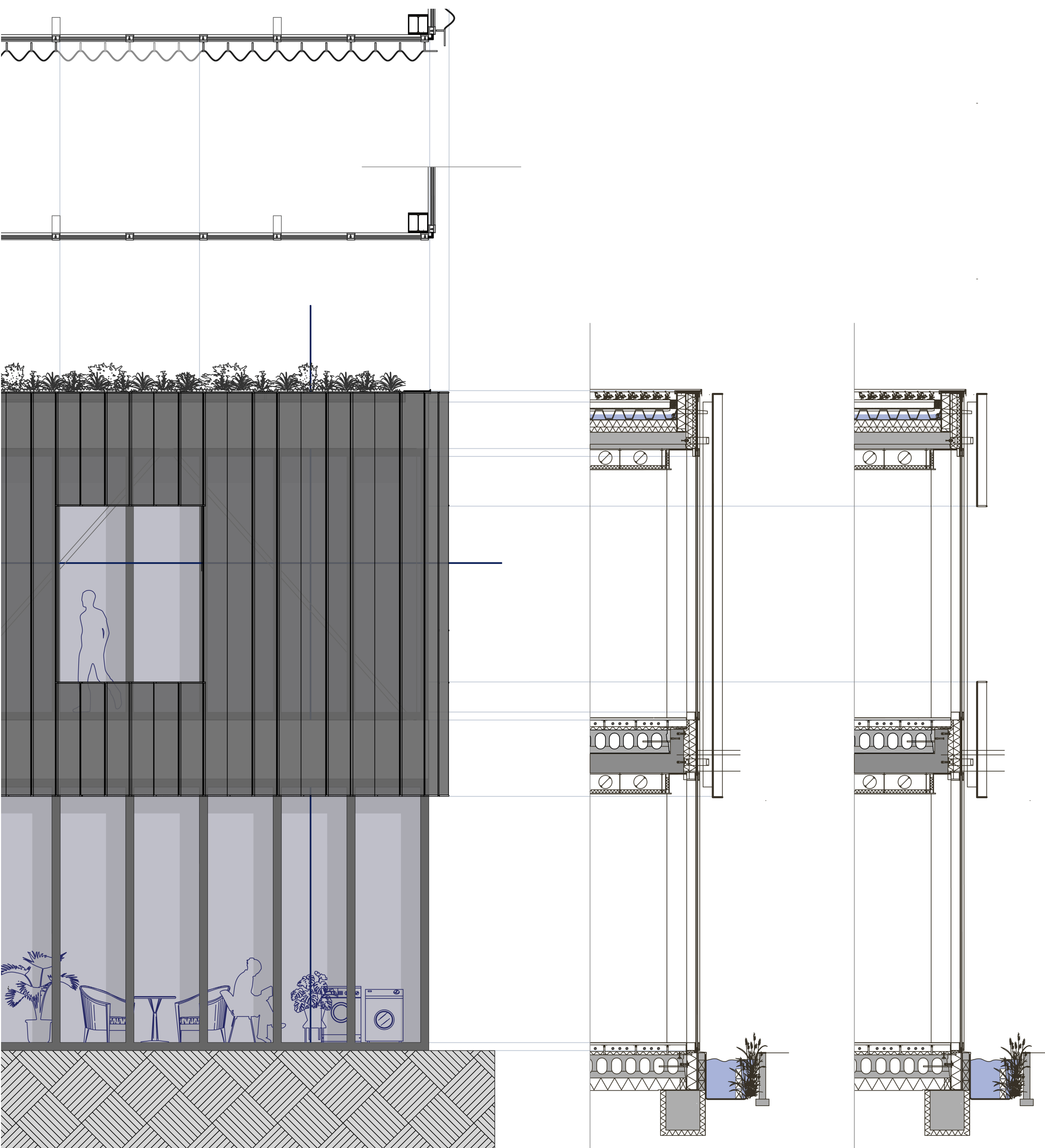


Details 1:5

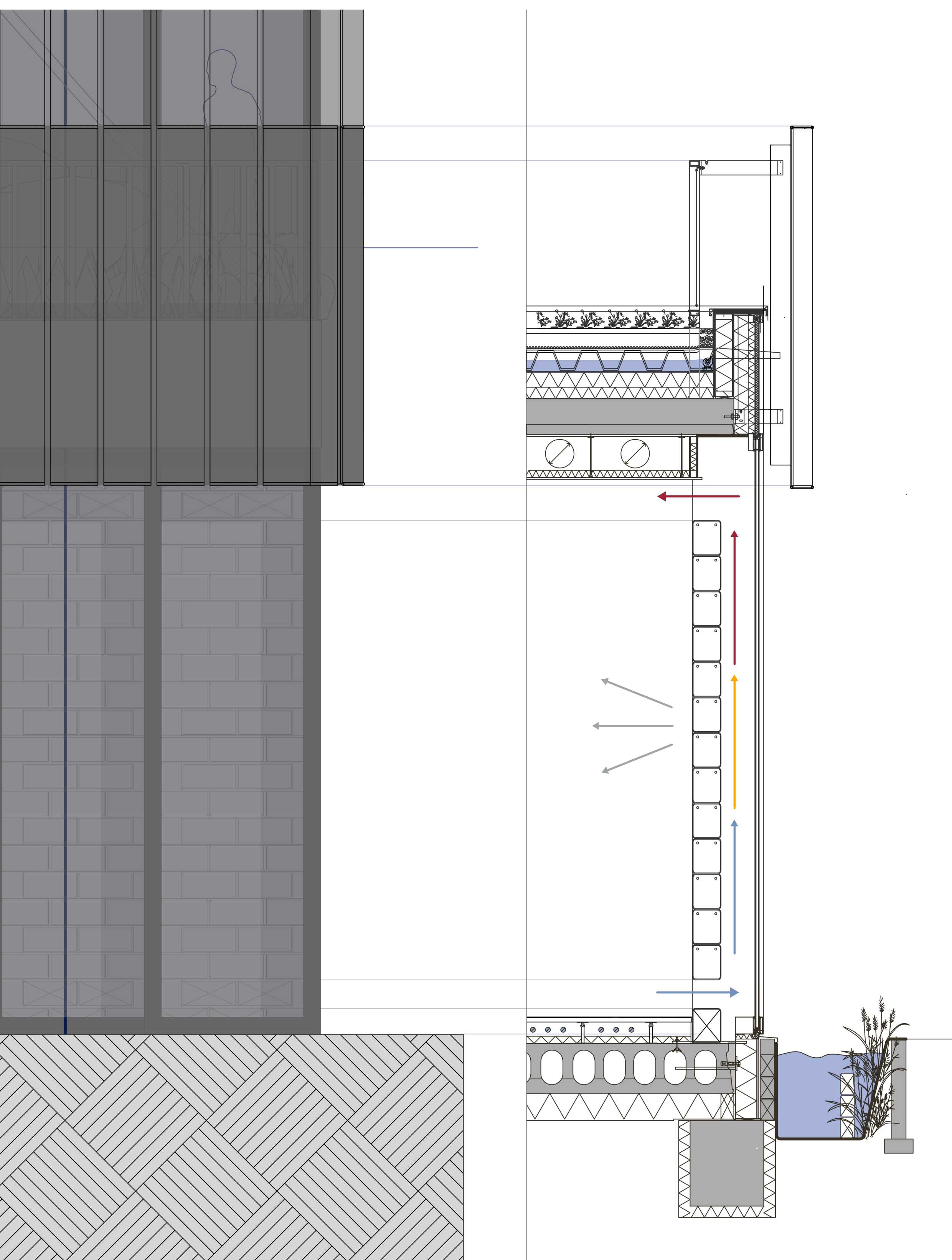


THE SYSTEM

Fragment Facade System 1:40

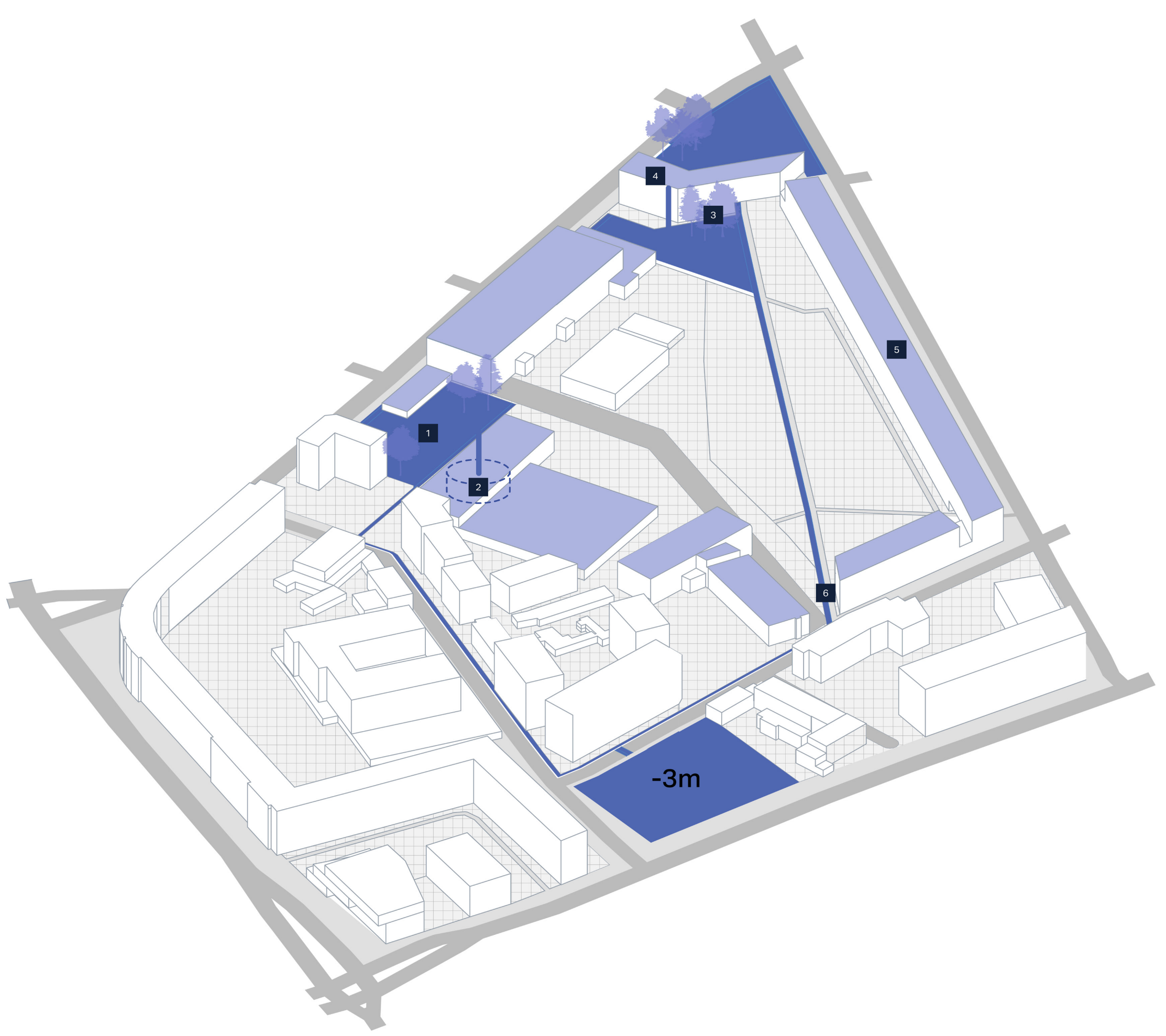


Fragment Trombe Wall 1:20



(Rain)Water Journey

- 1 Collecting rainwater on project surfaces with a public function
- 2 Surfaces having its own watertank in cases of extreme flooding
- 3 Surfaces containing 20% of new green spaces for bio-diversity and wellbeing
- 4 Collecting rainwater on roofs, transforming some into green blue roofs
- 5 Green Blue roofs enhances insulation & reduces Urban Heat Island effect
- 6 Bringing rainwater to the plot, bridging 400m in +3m elevation = 0.5 cm/m



Rule-based Measurements

