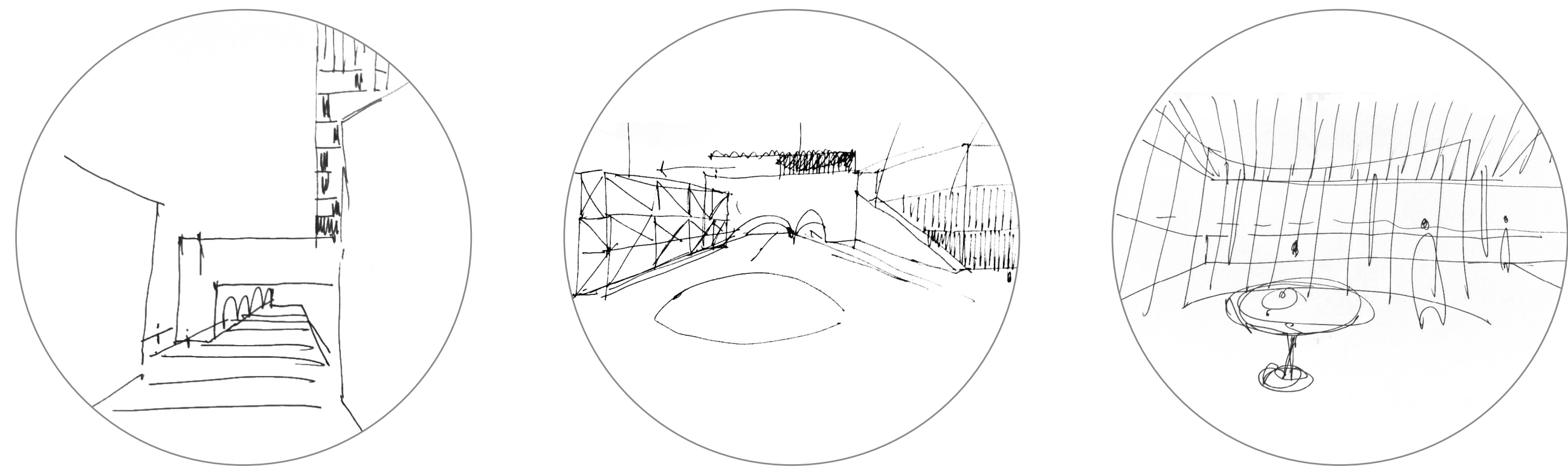
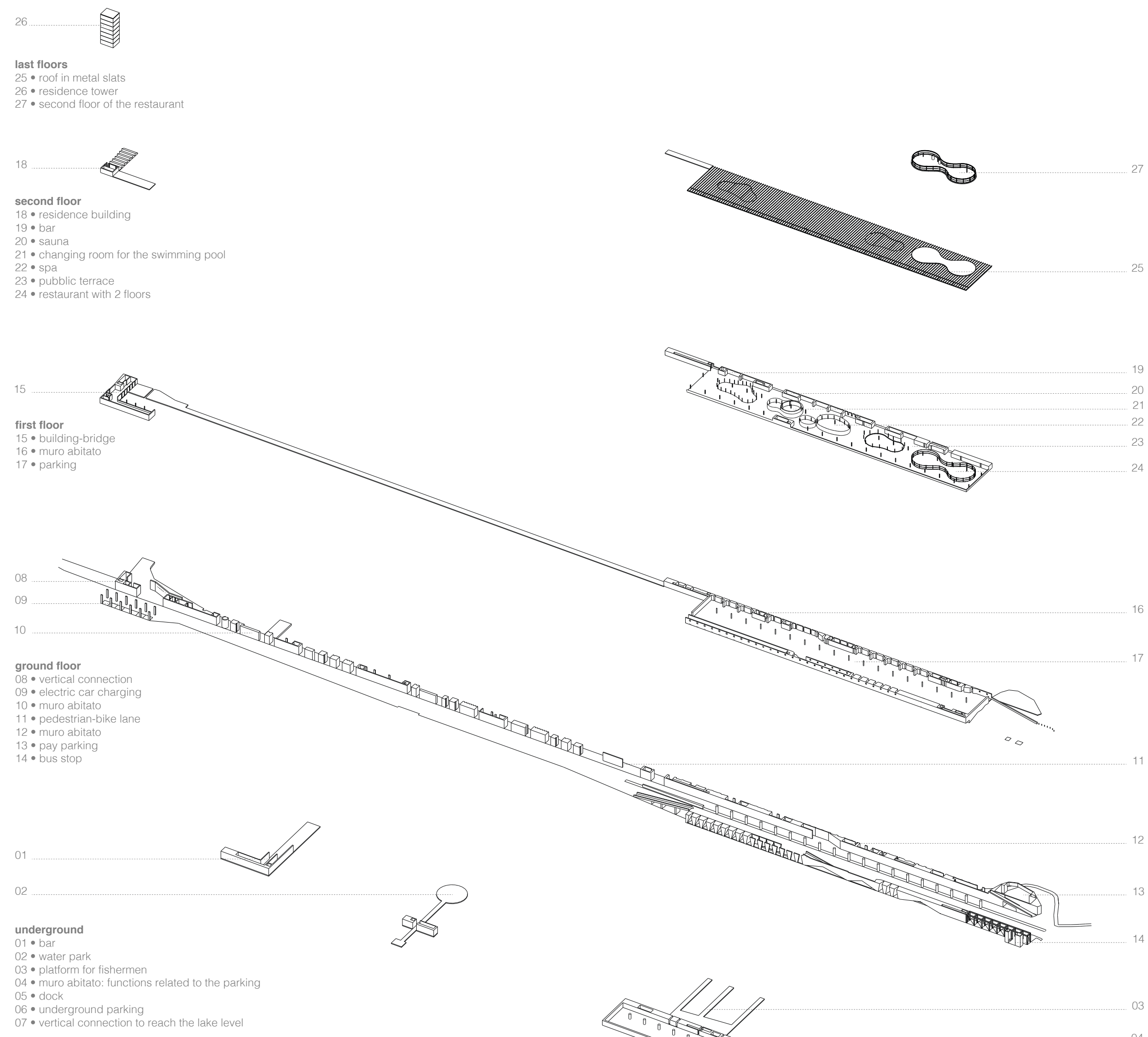


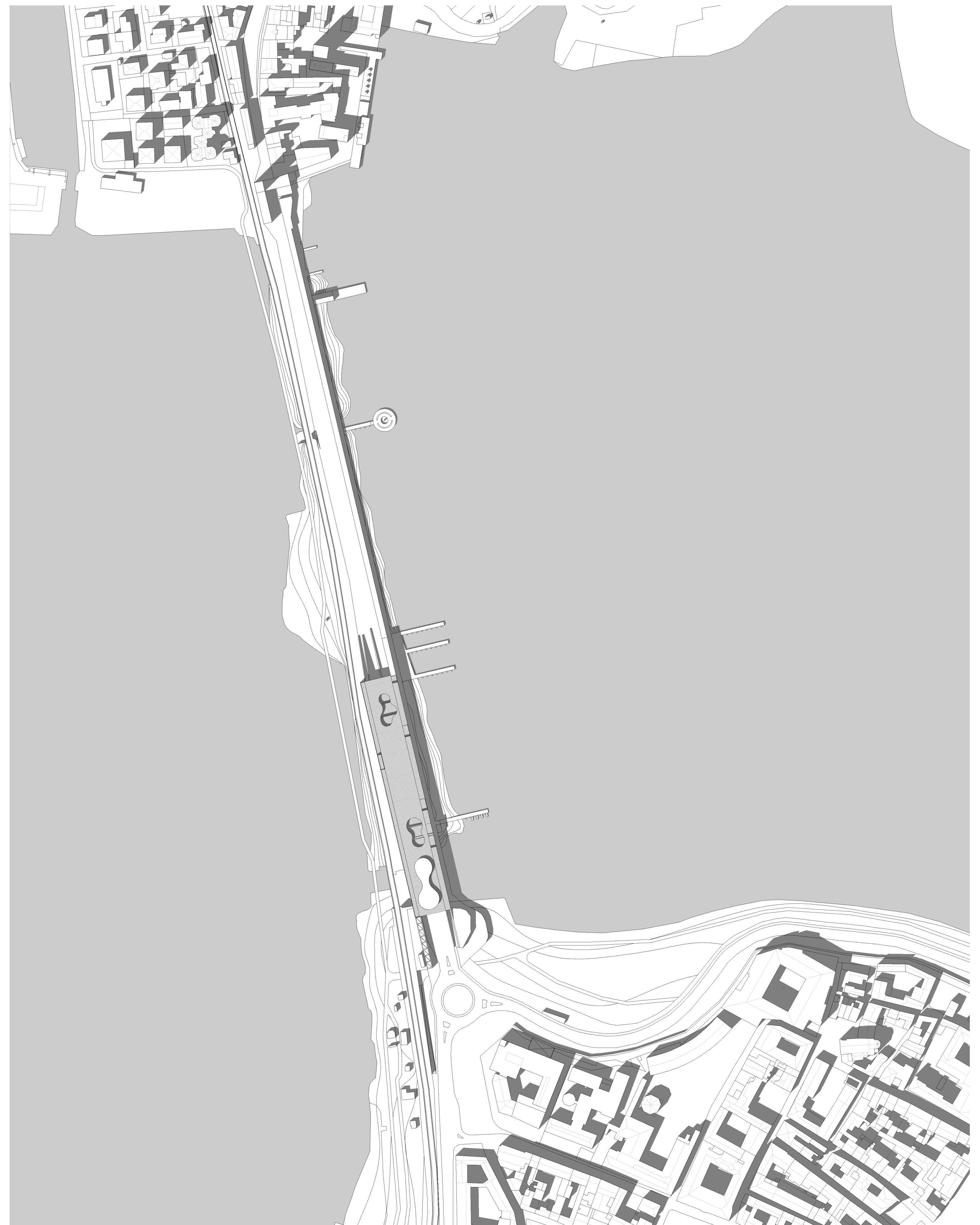
historical evolution

11 th -12 th century	12 th century	13 th century	14 th century	15 th century	17 th century	18 th century	20 th century					
		1190	1257	1393	1417	1608	1630	1729	1741-1758	1920	1932	1944
Alberto Pitentino was working in Mantua in a period of great renewal, it is possible to talk about the urbanistic revolution between the 11th and 12th centuries	Alberto Pitentino built the Mulini bridge with clay and masonry. These materials were cheap, resistant and available in the region commemorative plaque to celebrate the construction of the bridge	the supports of the bridge were made and the bridge became more functional under the orders of the director of the time, Buratto il Salvo (second plaque)	Gian Galeazzo Visconti declared the war against Mantua. After the serious damages of the bridge, this was repaired with the construction of a wide levee with a semicircular shape called the "Rotta di Porto".	a restoration was commissioned by the marquis Gianfrancesco Gonzaga, who decided to roof the bridge	a third plaque was placed to point out at the restoration works carried out in 1608 by Angelo and Gianbattista Bertazzolo commissioned under the orders of Vincenzo I Gonzaga to commemorate the marriage of his son Francesco Gonzaga with Marguerite Savoy	the sack of Mantua, caused serious damages to the entire city and in particular to the Mulini bridge	Giulio Romano built the "Rasegna", a place where the grains were ground	a fourth plaque was placed to remember the restoration works commissioned by Maria Teresa d'Austria. The path was decorated with 12 sculptures each one representing one of the disciples and the building was raised to add more light and importance	deep changes in the city of Mantua due to the increasing of the traffic and the beginning of the Second World War	the artist Tivani made the Redentore sculpture	it was demolished the mill of San Pietro and its sculpture was put in front of the bridge, in the entrance	the bridge was demolished definitely by the bombs of the Second World War

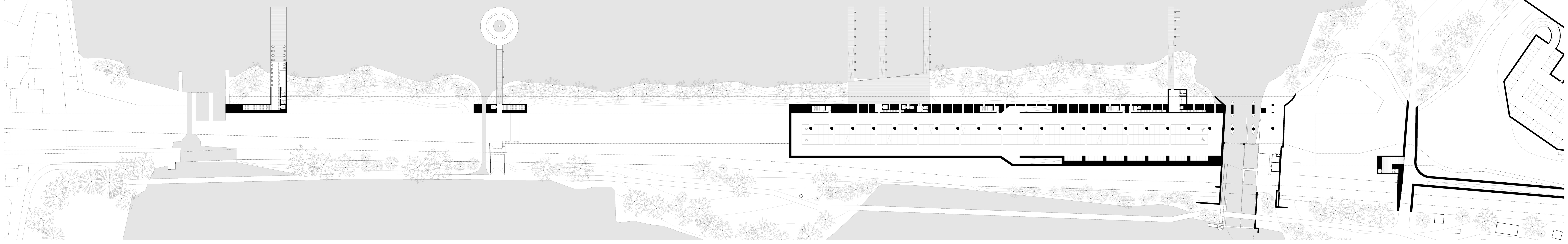
functional scheme



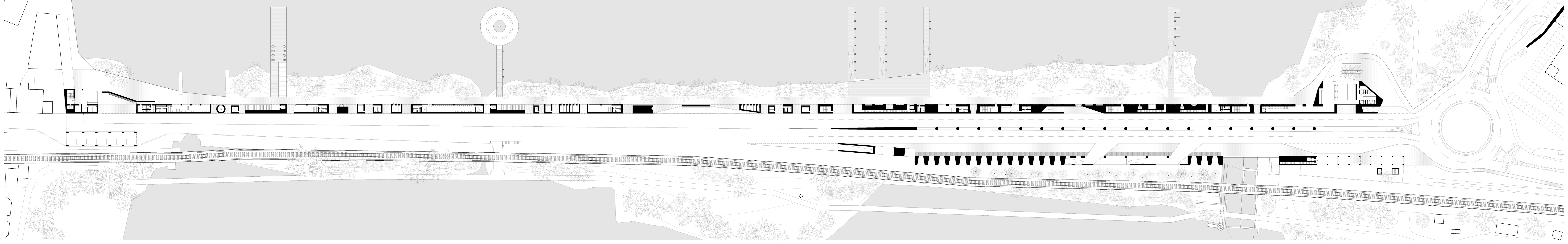
roof plan • 1:2000



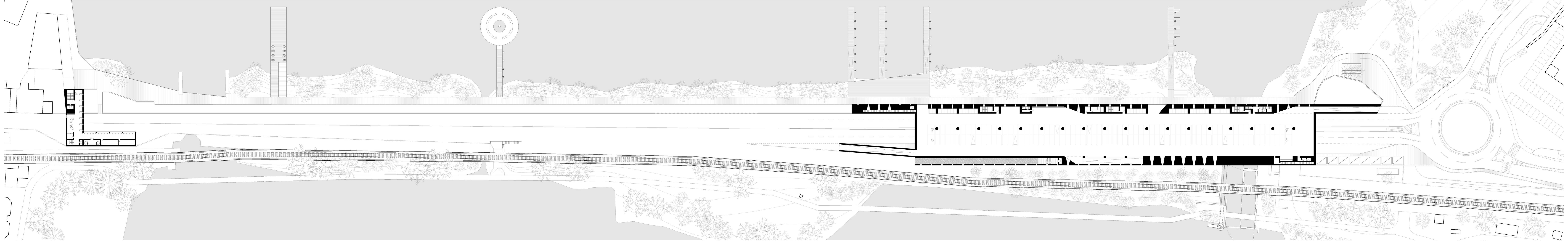
underground • 1:500



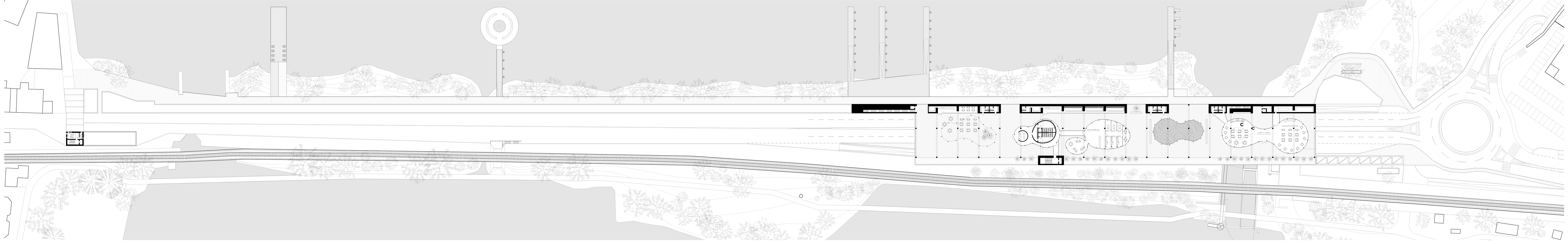
ground floor • 1:500



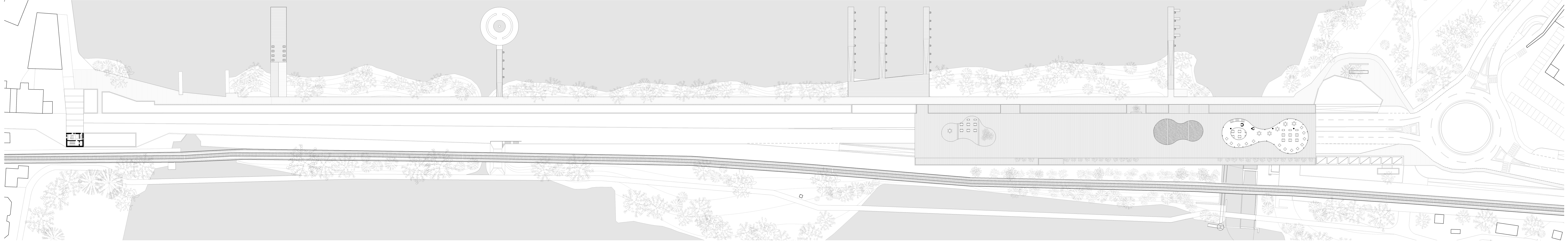
first floor • 1:500



second floor • 1:500



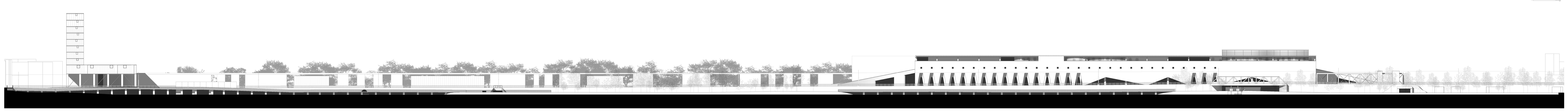
third floor • 1:500

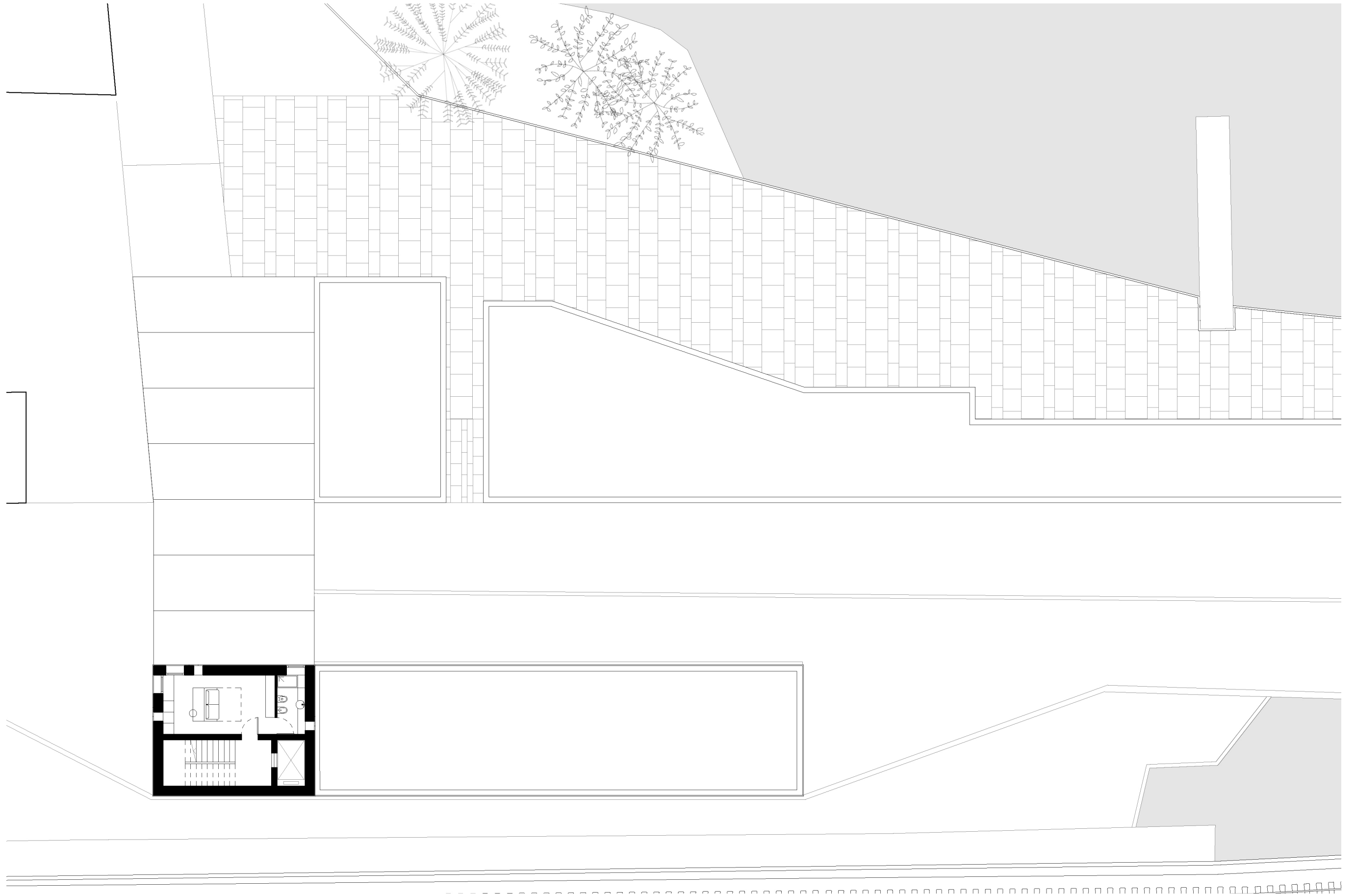
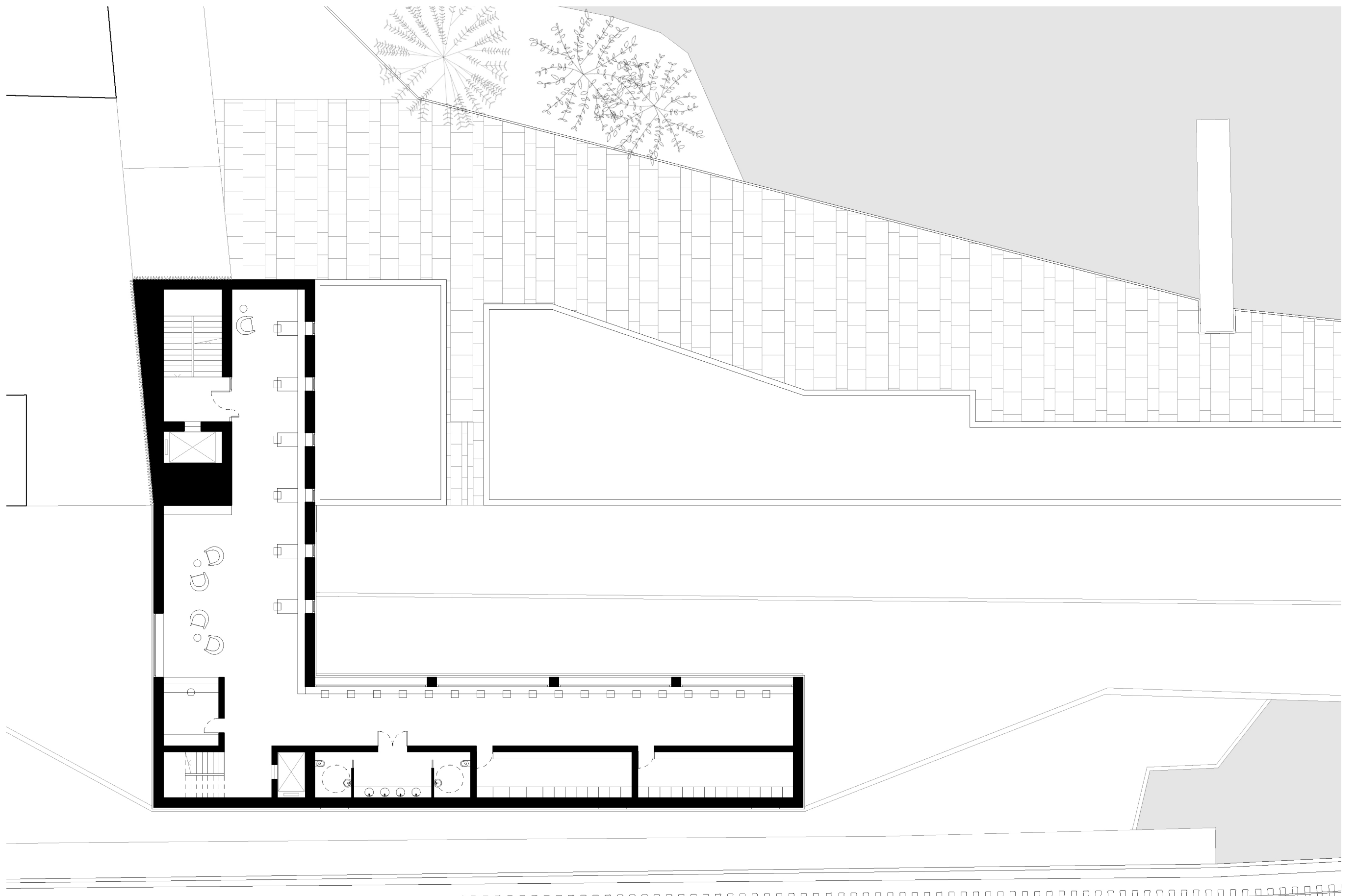
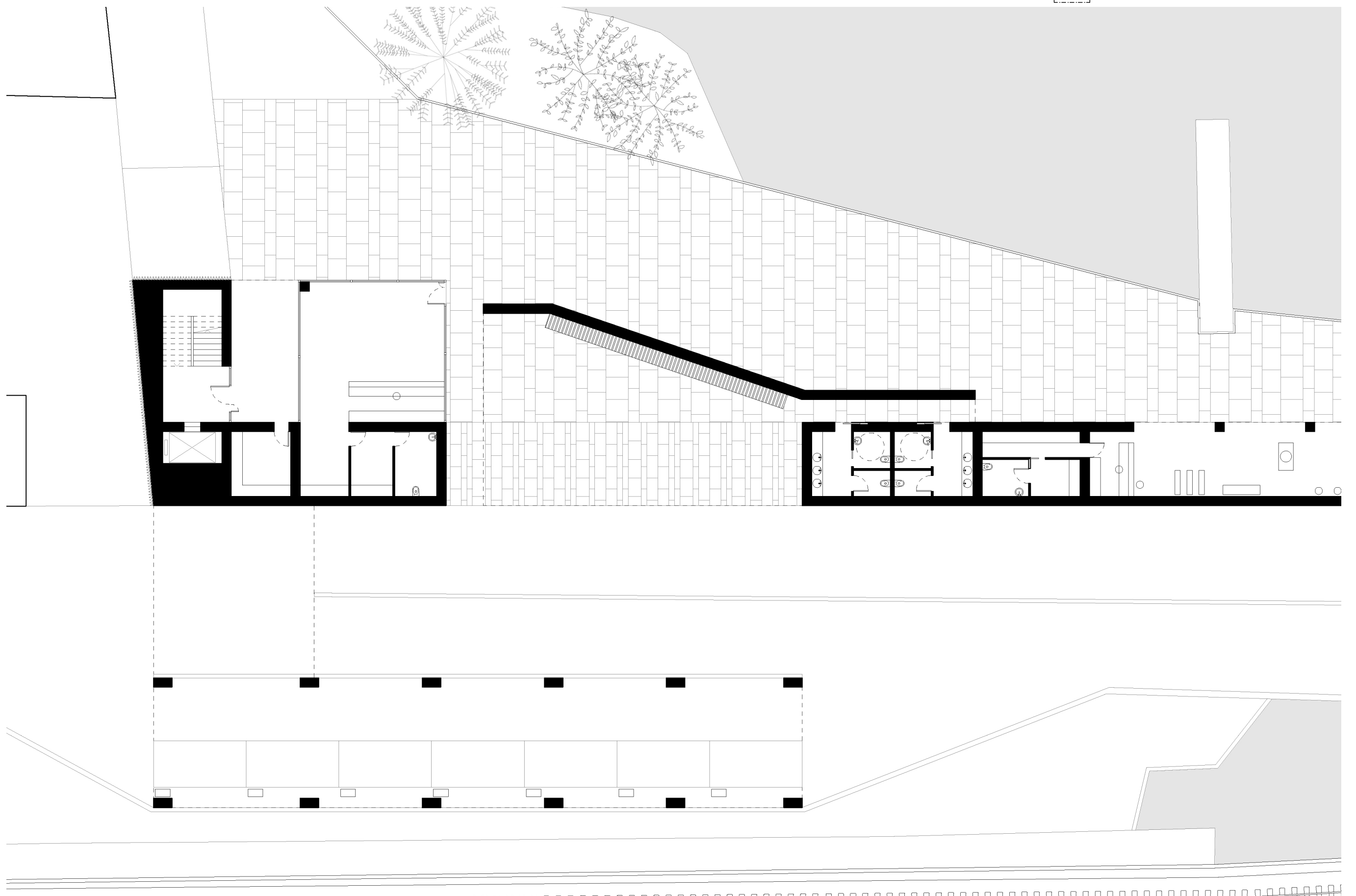


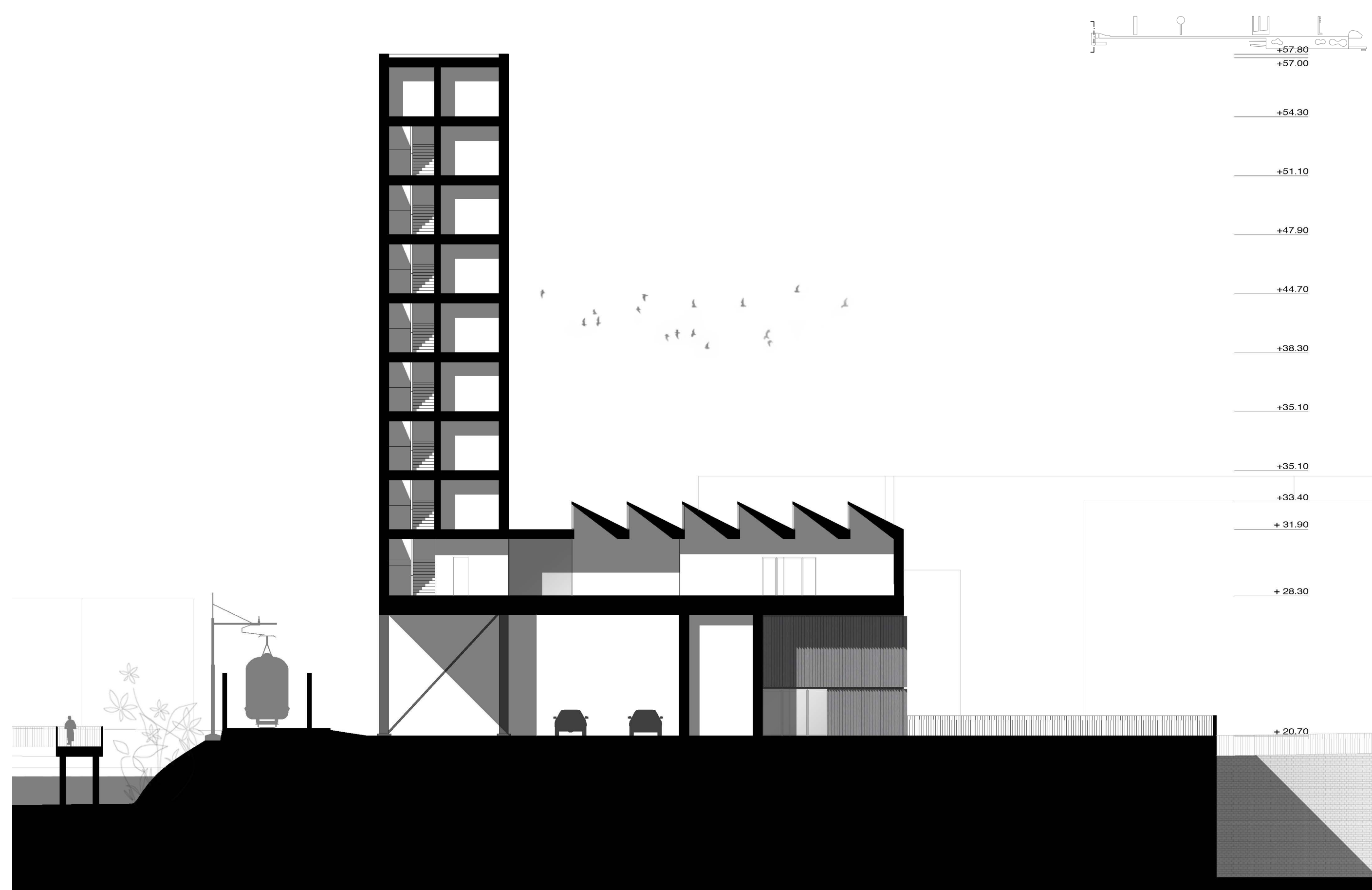
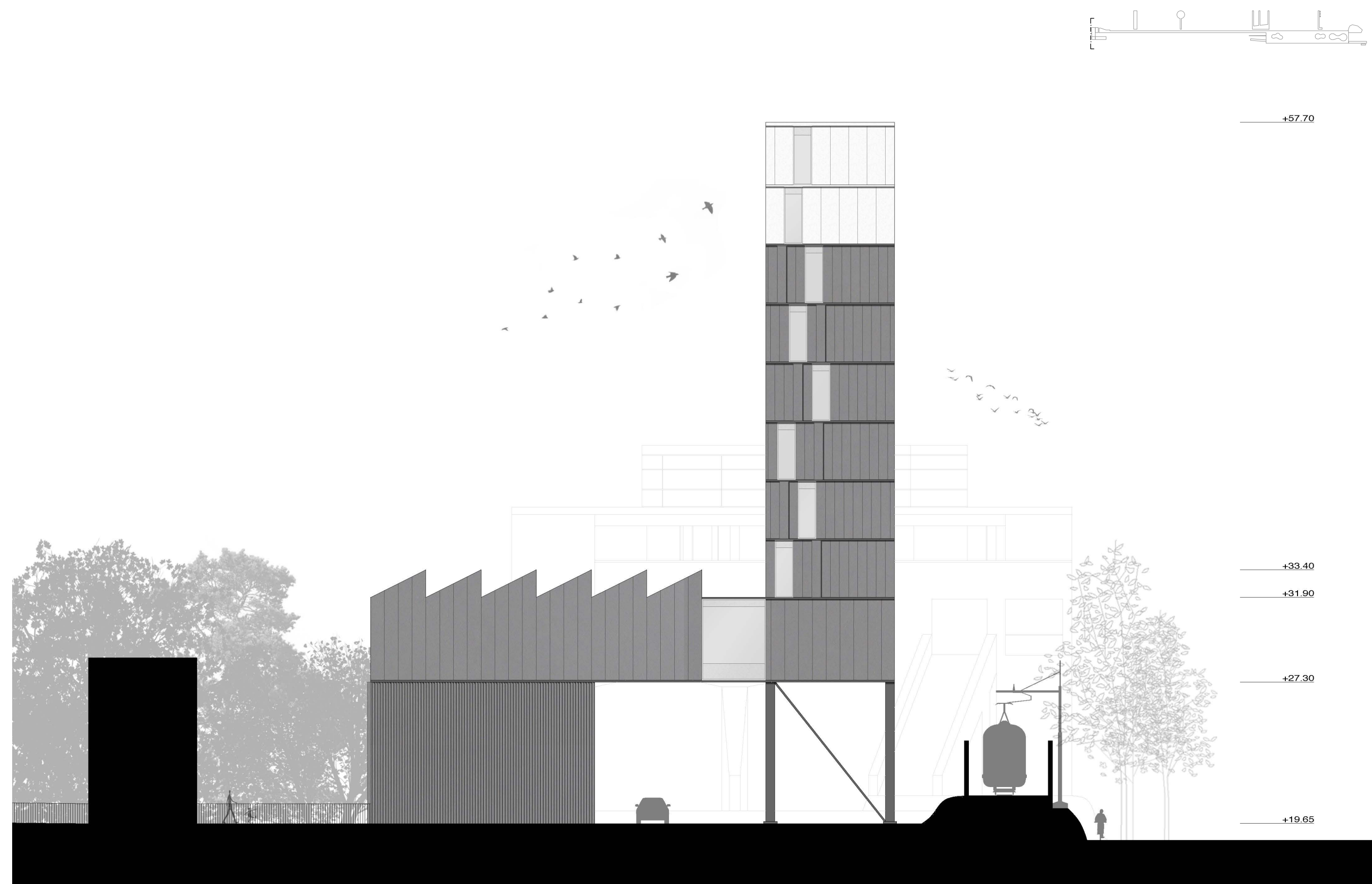
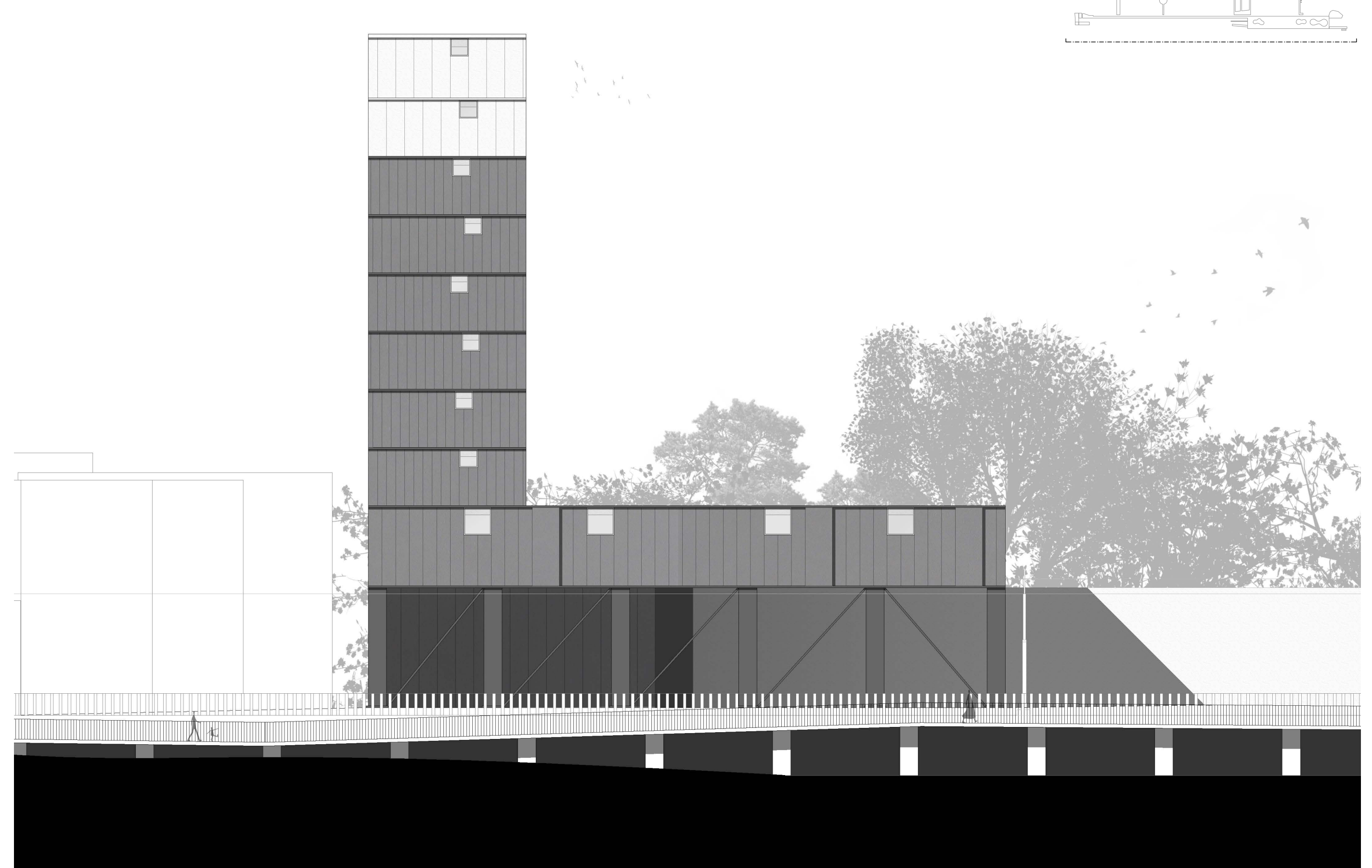
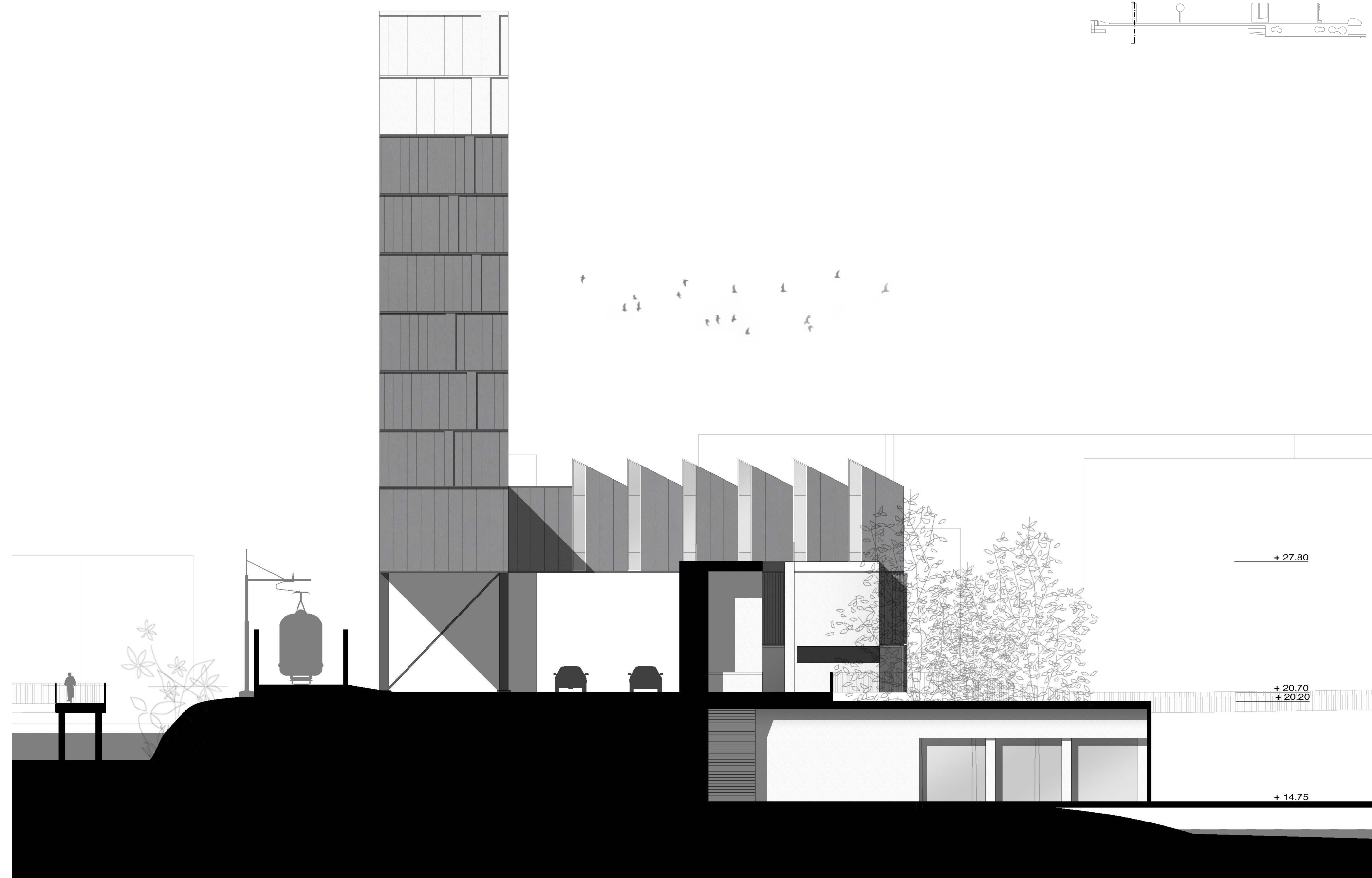
east elevation • 1:500



west elevation • 1:500

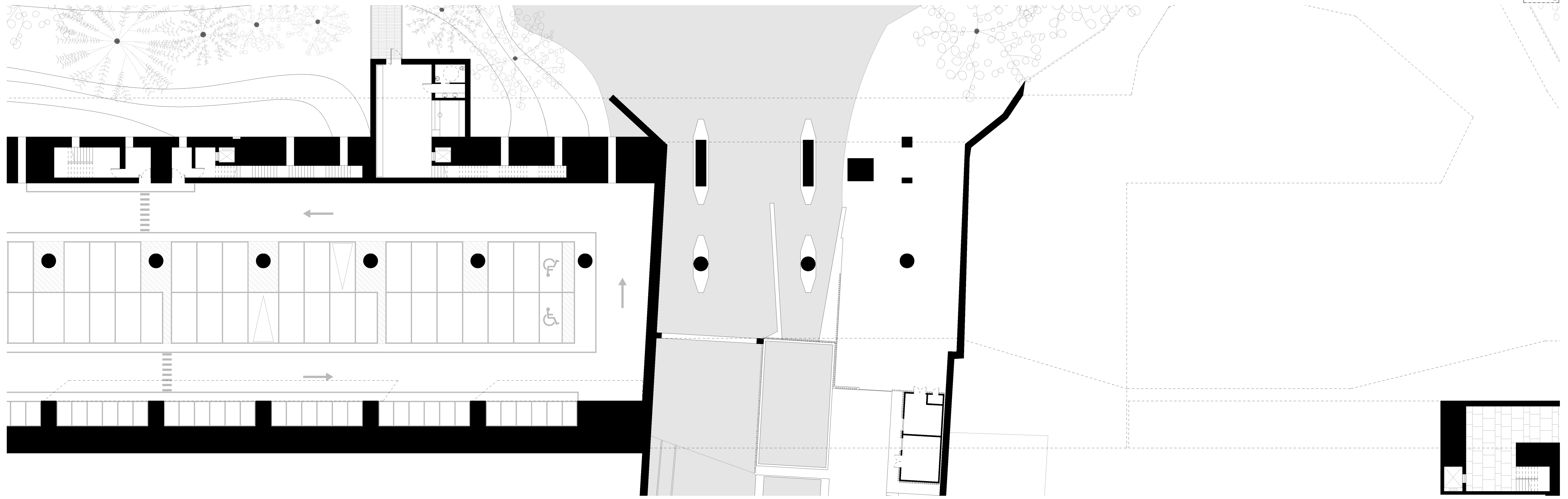




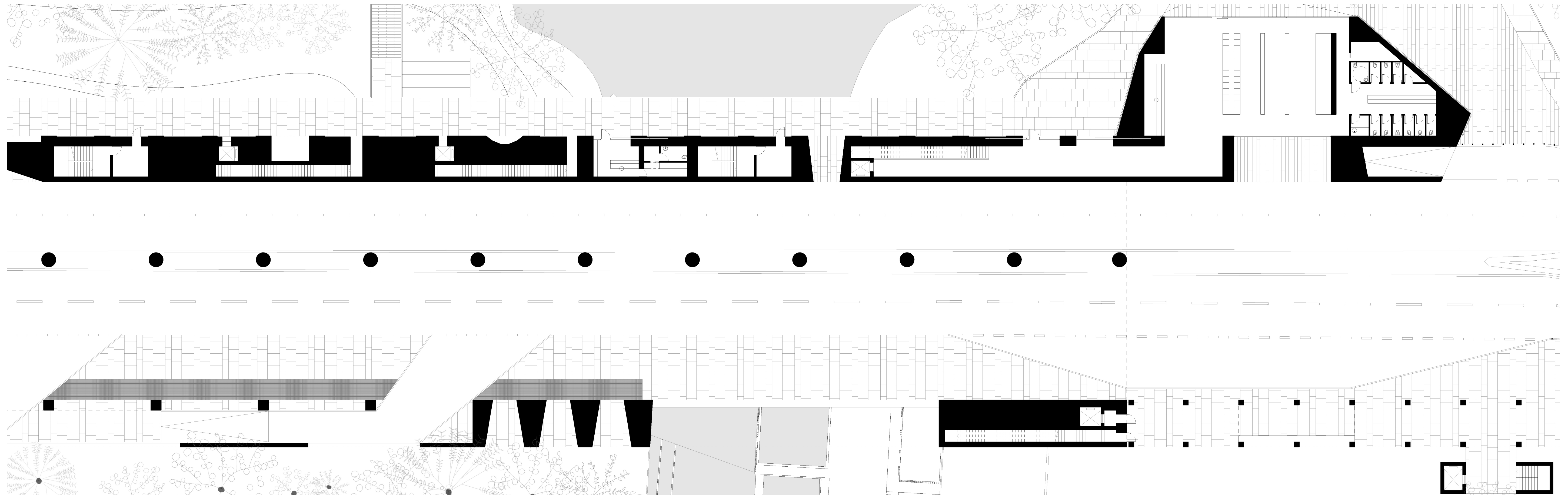


underground

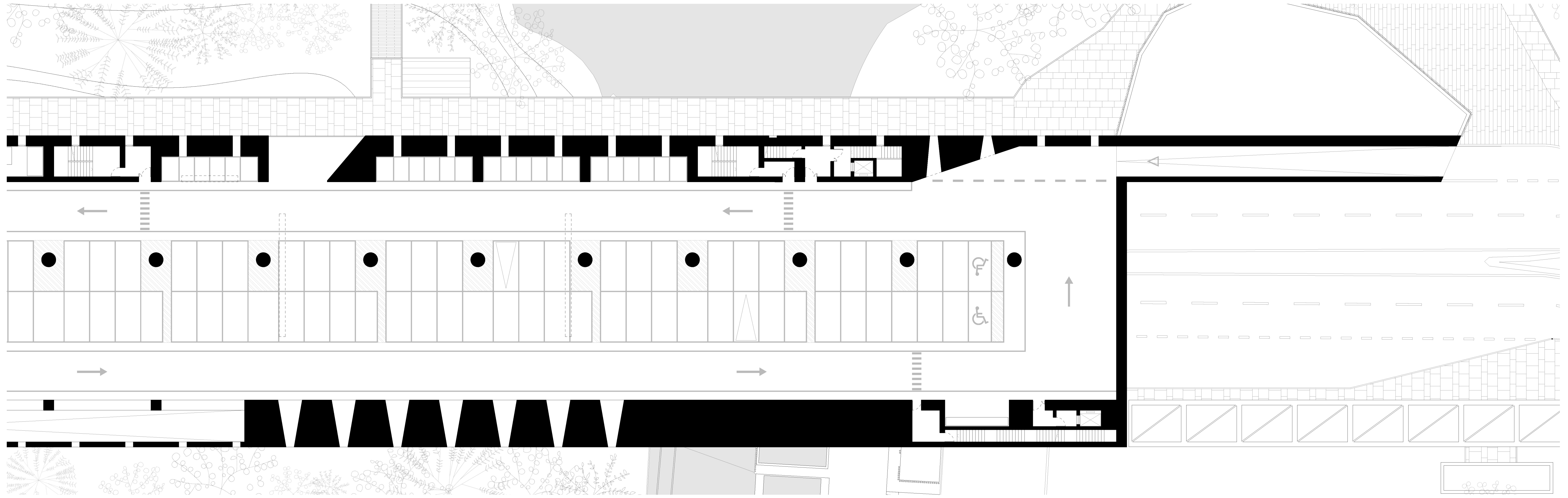
porta mulina's threshold • 1:200



ground floor

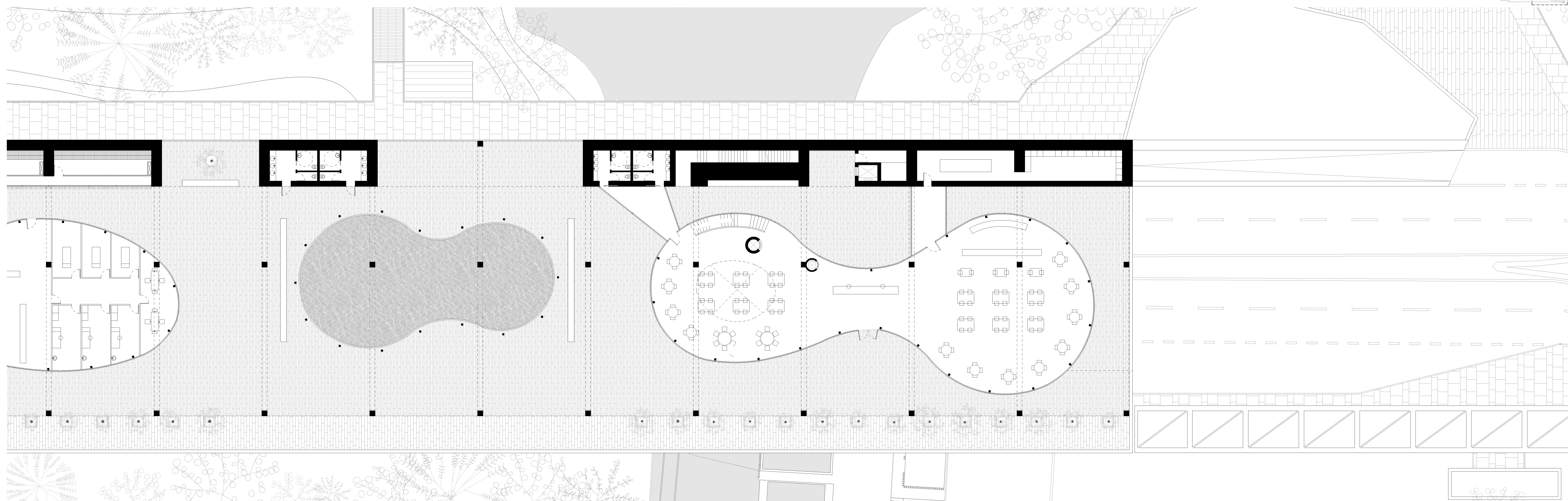
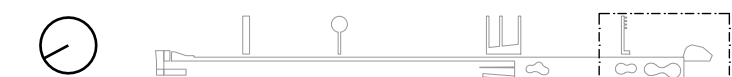


first floor

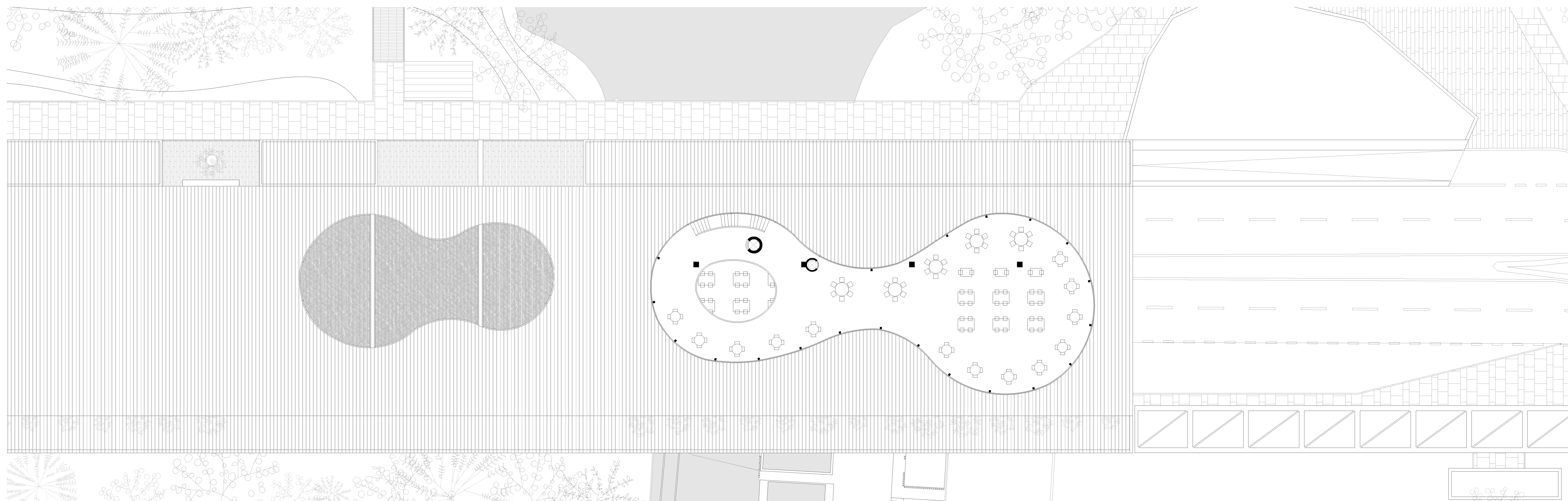


second floor

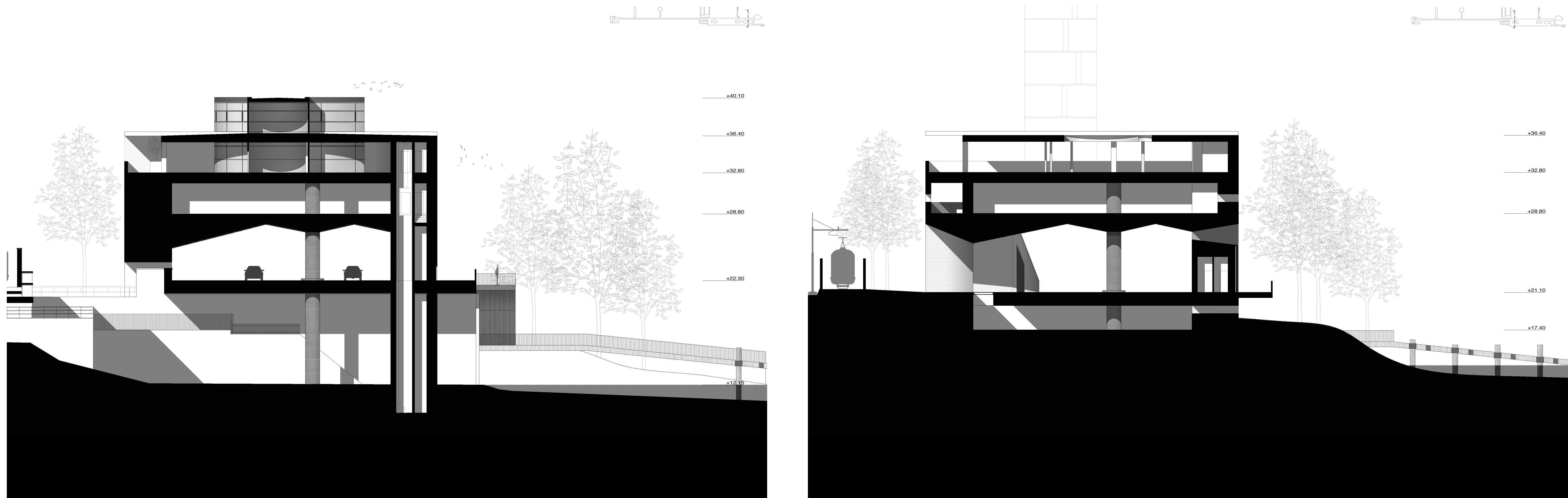
porta mulina's threshold • 1:200

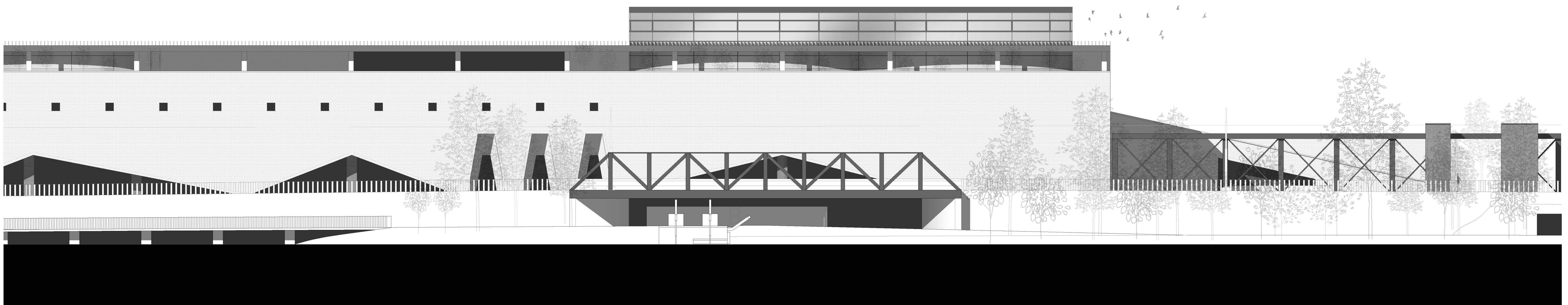
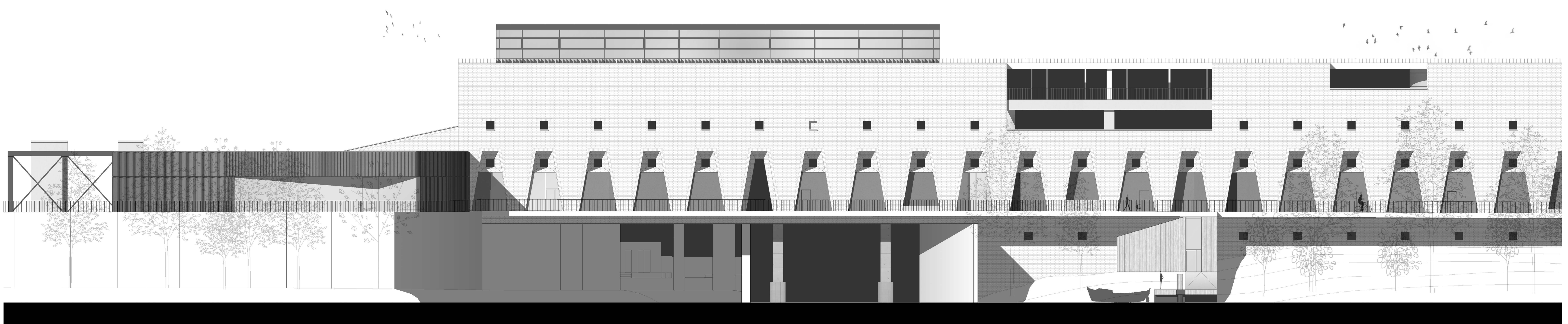
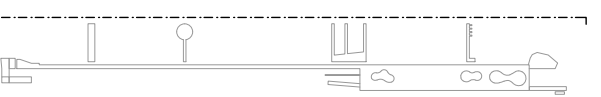
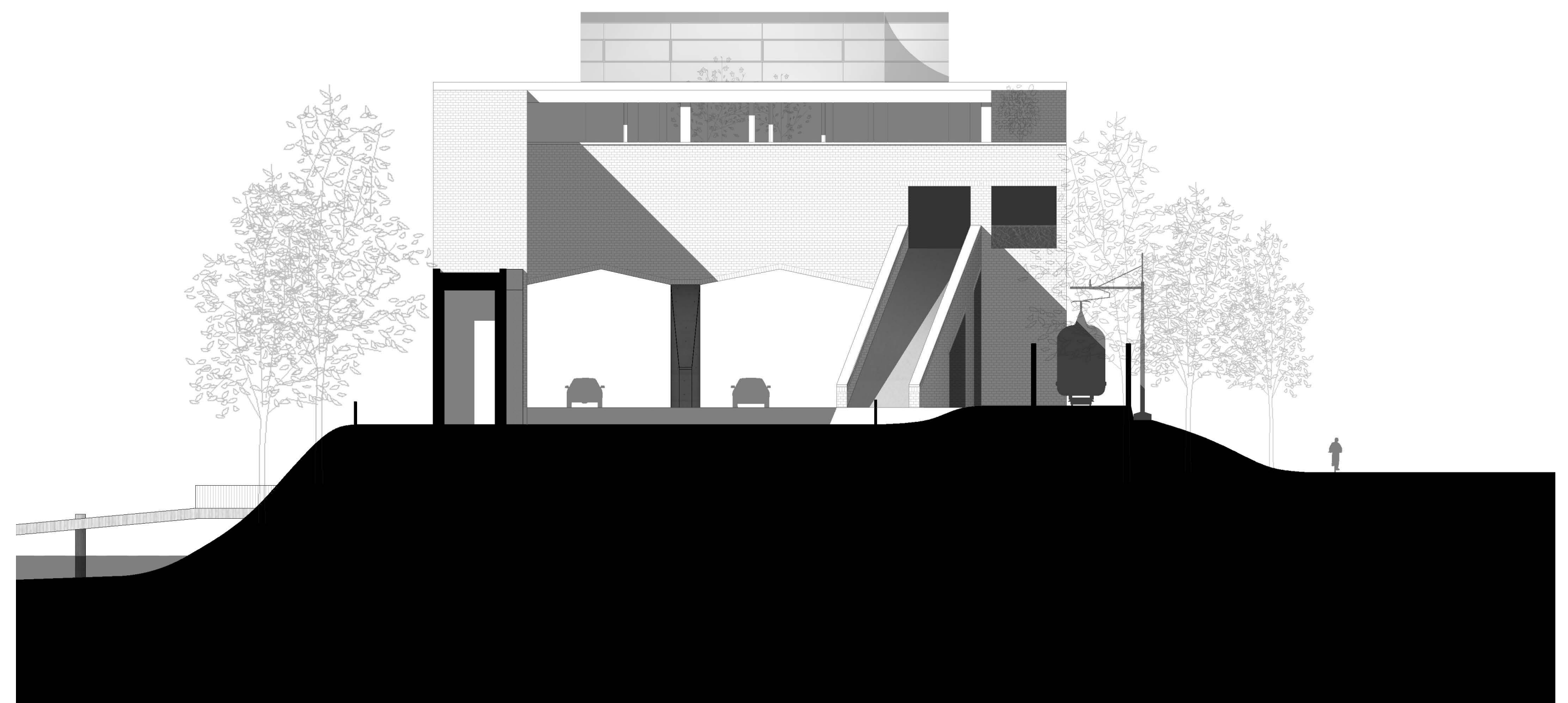
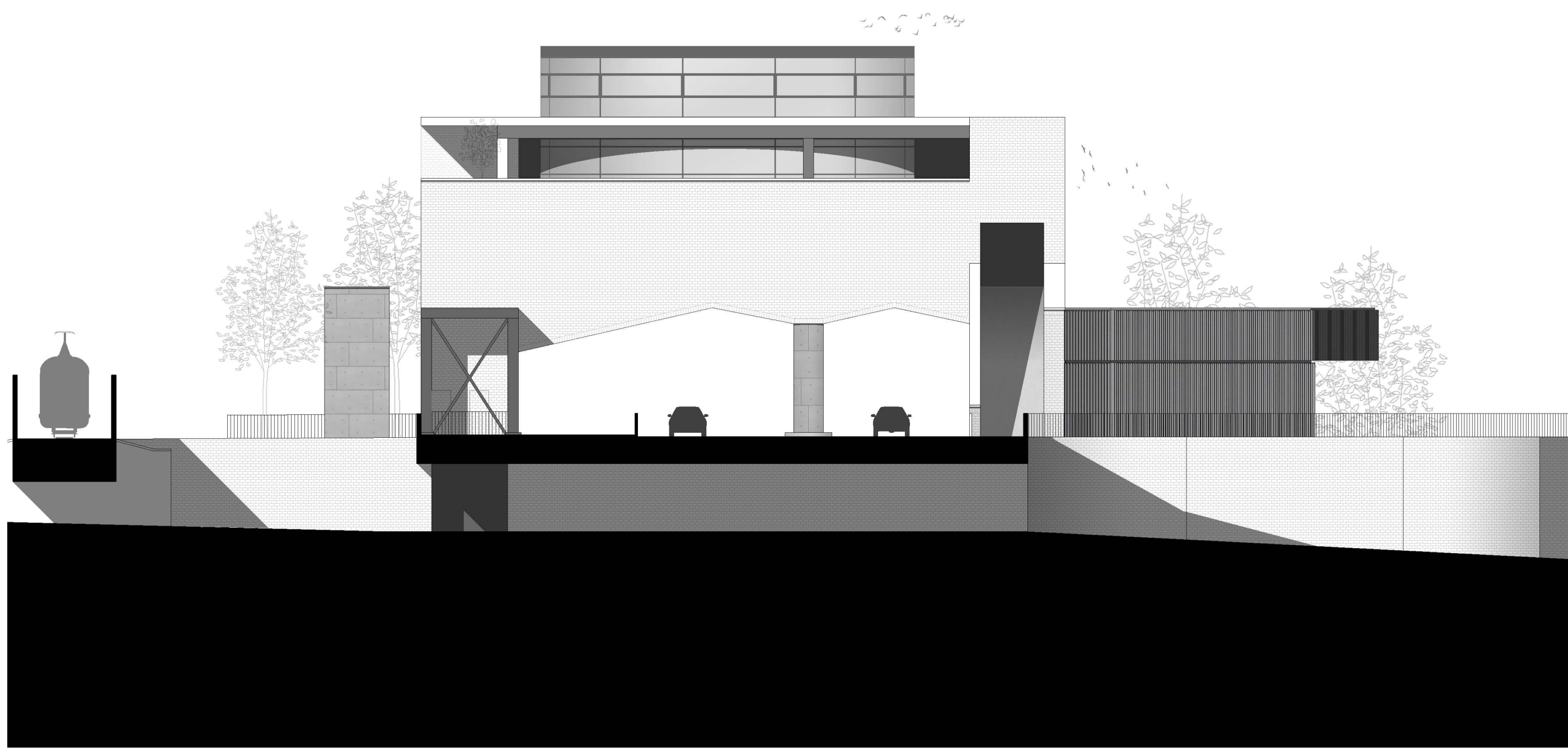
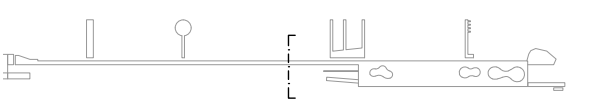


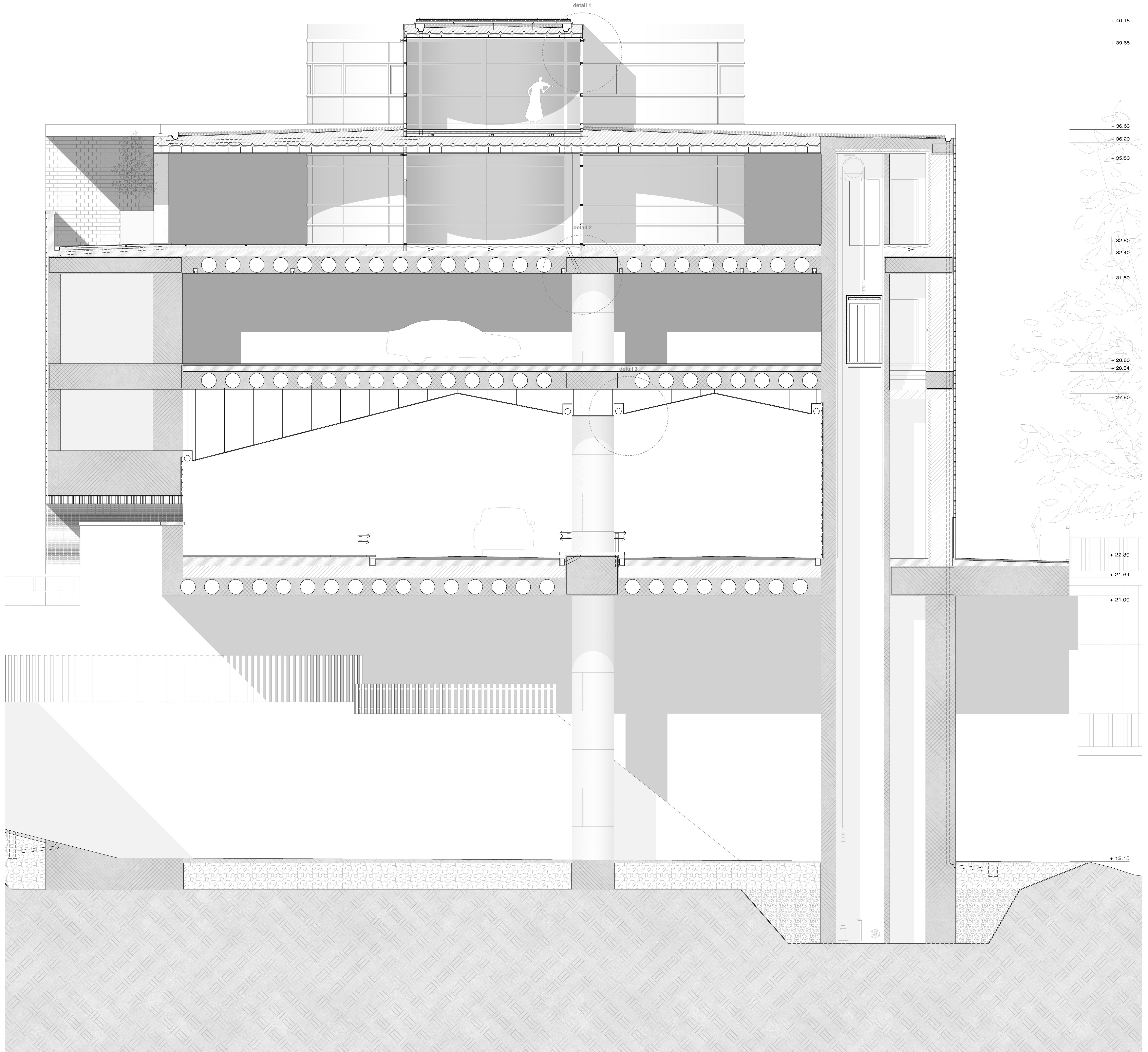
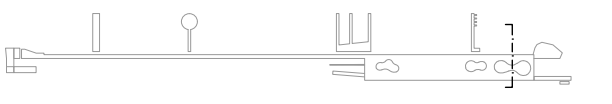
third floor

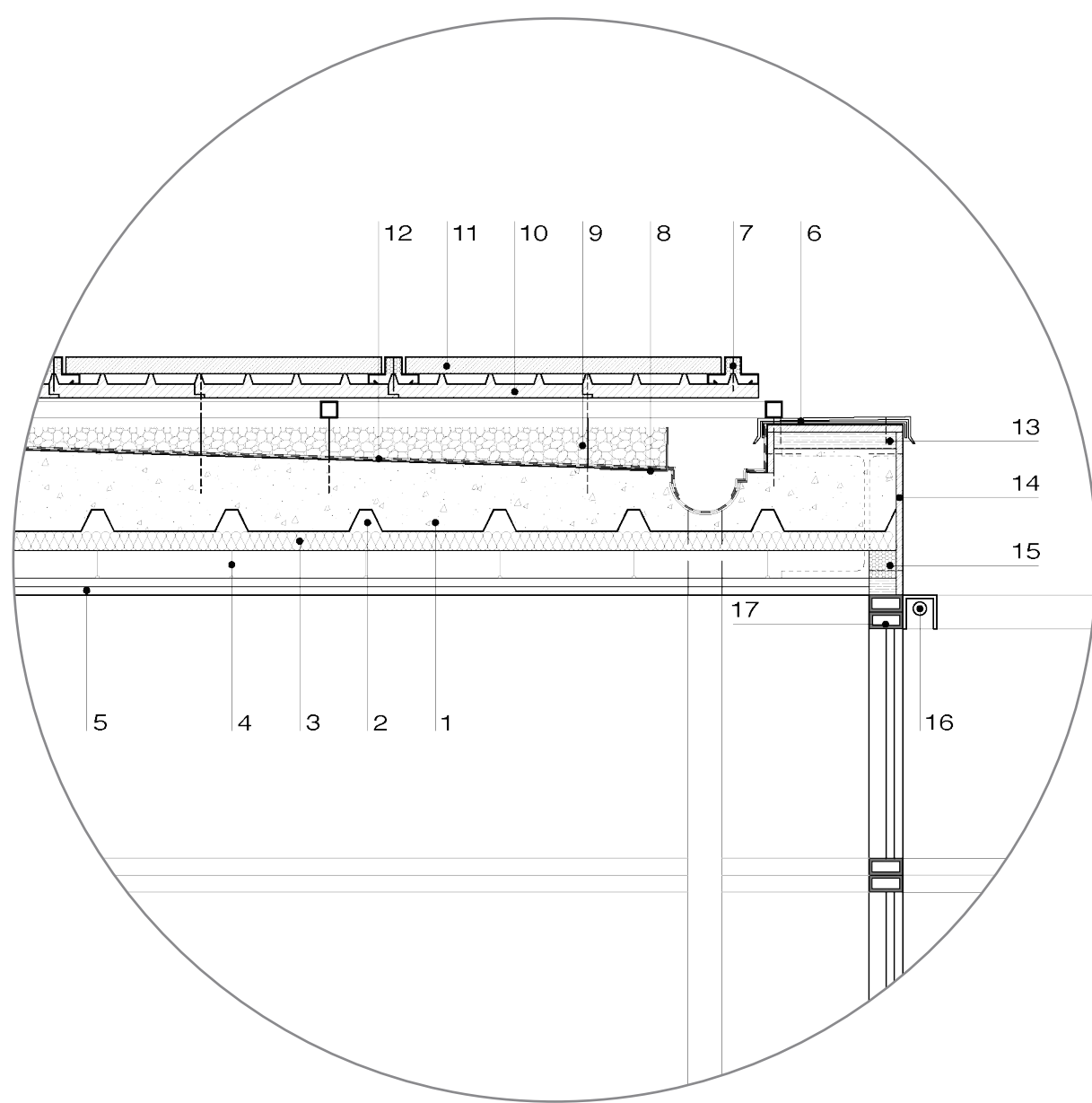


sections





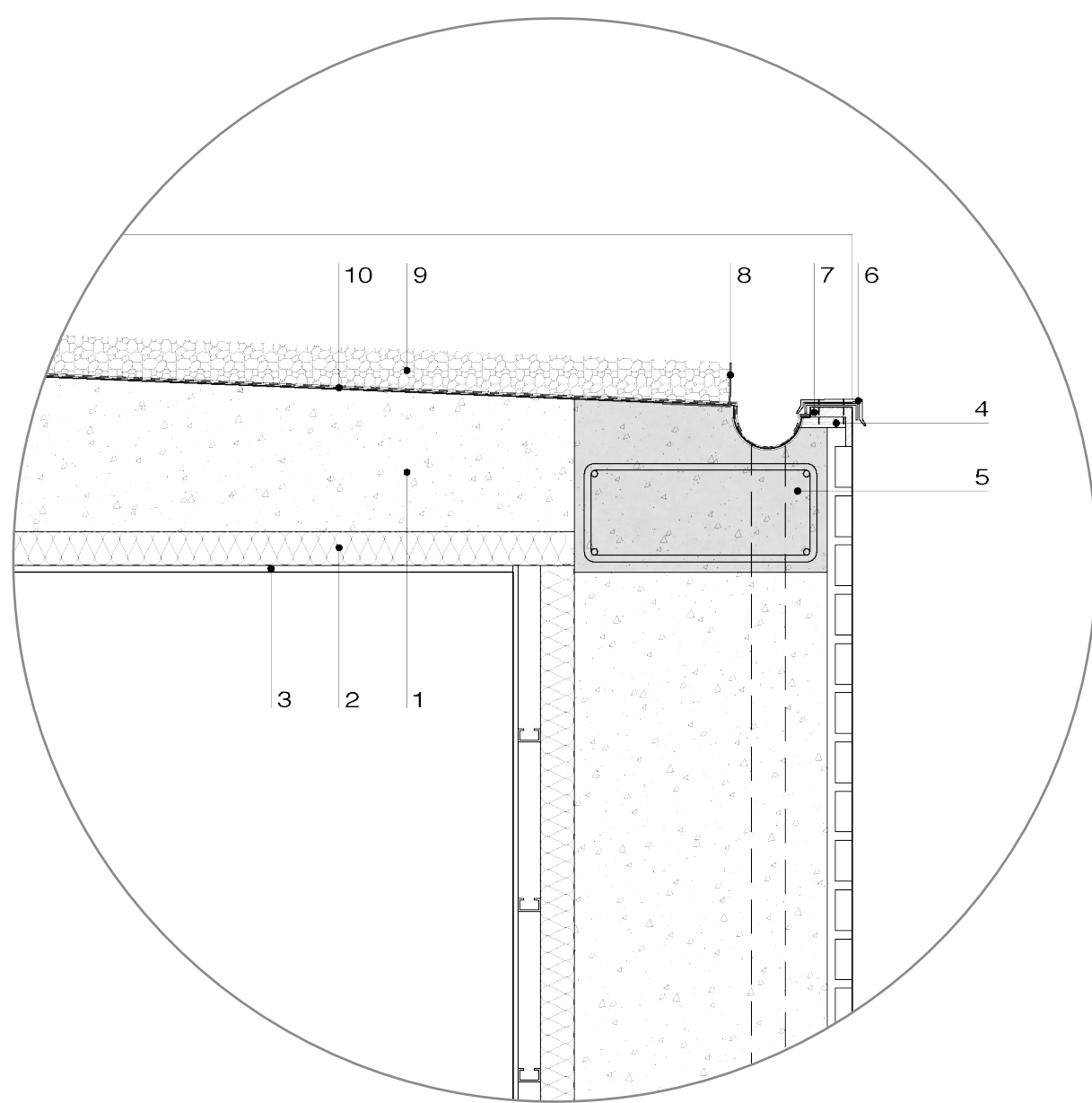




detail 1

- 01 • concrete slab
- 02 • sandwich panel, thk = 12cm
- 03 • thermal insulation panel inside the sandwich panel, thk = 6cm
- 04 • hanging element to hold the two panels of plasterboard
- 05 • two panels of plasterboard Knauf, thk = (2.50+2.50) cm
- 06 • tile in metallic profile
- 07 • fixing of the photovoltaic panel
- 08 • draining prefabricated steel profile Clima Grun
- 09 • foam glass gravel Misapor
- 10 • thermal insulation panel in poliuretano, thk = 7cm
- 11 • photovoltaic panel
- 12 • double waterproof membrane Mapelastic, thk = (0.5+0.5)cm
- 13 • finishing in marine plywood, thk = 5cm
- 14 • L steel profile, thk = 2cm
- 15 • wooden subframe to fix the window
- 16 • steel window frame
- 17 • window blind

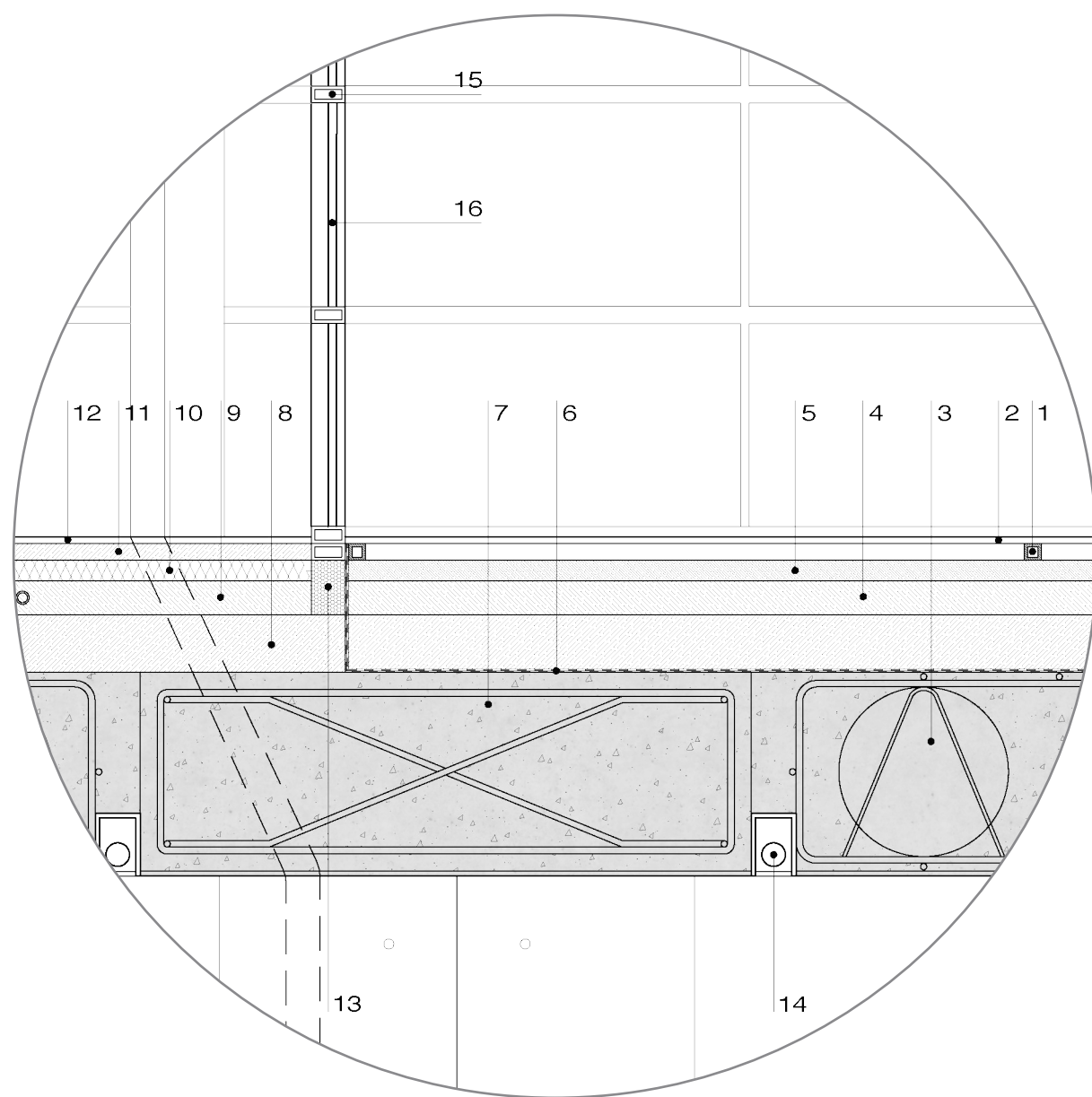
- 01 • solaio in cemento
- 02 • pannello sandwich
- 03 • pannello isoalnte
- 04 • pendino di sostegno per i pannelli in cartongesso
- 05 • scossalina in acciaio
- 06 • punto di ancoraggio dei moduli fotovoltaici tramite un sistema di fissaggio
- 07 • profilo drenante in alluminio
- 08 • vetro cellulare granulare
- 09 • isolante poliuretano
- 10 • modulo di film fotovoltaico
- 11 • doppio strato di guaina impermeabilizzante
- 12 • elemento di terminazione sommitale in compensato marino
- 13 • profilo metallico di contenimento a L
- 14 • controtelaio in legno per il fissaggio del serramento
- 15 • telaio in acciaio
- 16 • tenda avvolgibile



detail 4

- 01 • slab in concrete
- 02 • thermoacoustic insulation Isover Capp8 G3, thk = 10cm
- 03 • finishing in plaster WeberTherm, thk = 2cm
- 04 • finishing in marine plywood, thk = 3cm
- 05 • reinforced concrete beam, dimensions = (0.75 x 0.4)m
- 06 • tile in metallic profile
- 07 • L steel profile, thk = 3cm
- 08 • draining prefabricated steel profile Clima Grun
- 09 • foam glass gravel Misapor
- 10 • double waterproof membrane Mapelastic, thk = (0.5+0.5)cm

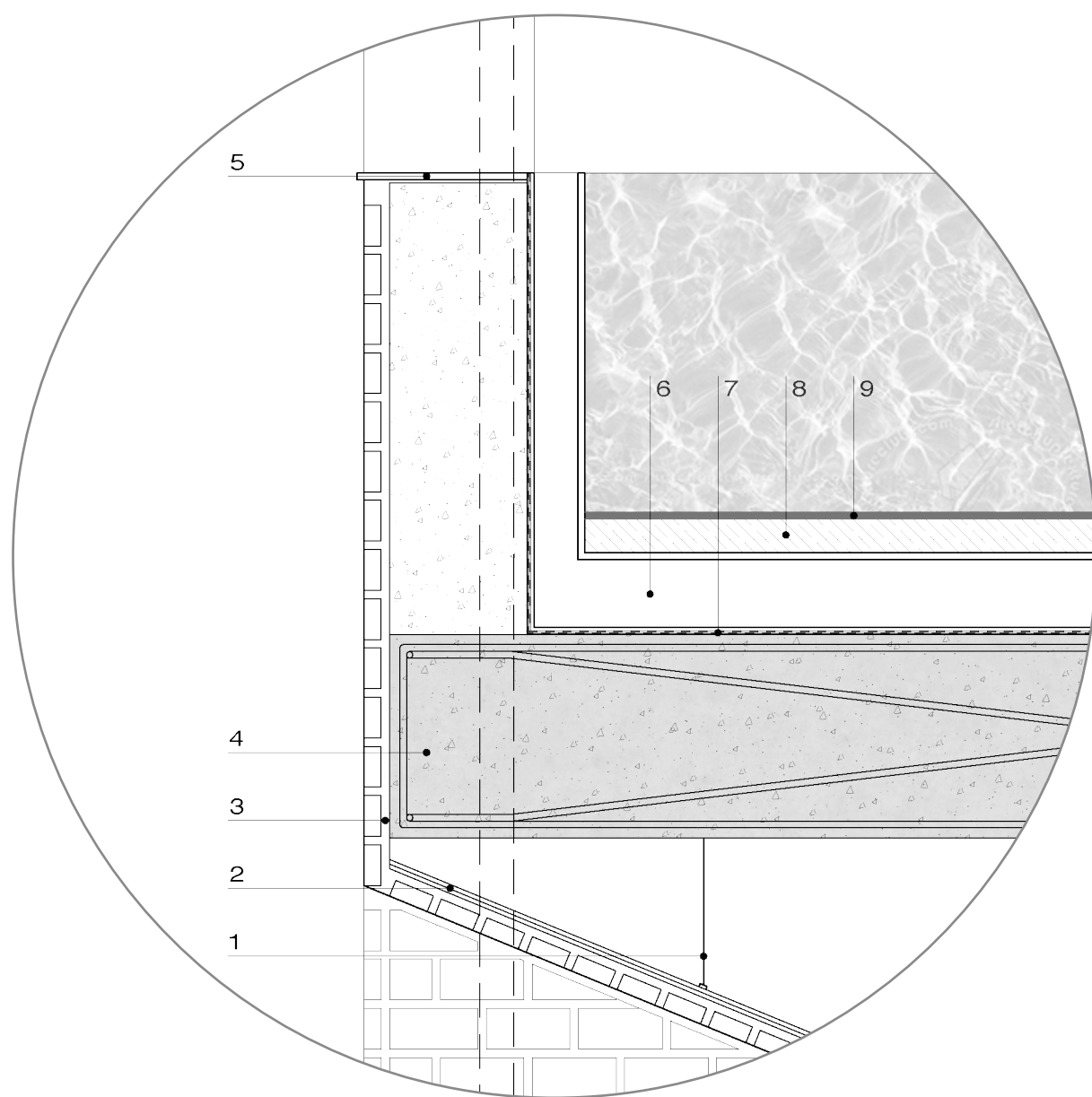
- 01 • solaio in cemento
- 02 • pannello termoacustico
- 03 • intonaco termoisolante
- 04 • elemento di terminazione sommitale in compensato marino
- 05 • trave in cemento armato
- 06 • scossalina in acciaio
- 07 • profilo metallico di contenimento a L
- 08 • profilo drenante in alluminio
- 09 • vetro cellulare granulare
- 10 • doppio strato di guaina impermeabilizzante



detail 3

- 01 • supporting element to hold the flooring, thk = 5cm
- 02 • floor finishing in gres porcellanato, thk = 2cm
- 03 • cobiax slab, thk = 0.60m
- 04 • finishing mortar, thk = 10cm
- 05 • finishing mortar, thk = 6cm
- 06 • double waterproof membrane, thk = (0.5+0.5)cm
- 07 • reinforced concrete beam, dimensions = (1.80 x 0.60)m
- 08 • finishing mortar, thk = 17cm
- 09 • pipes space, thk = 10cm
- 10 • thermoacoustic insulation Isover Capp8 G3, thk = 6cm
- 11 • subfloor, thk = 5cm
- 12 • floor finishing in wood, thk = 2cm
- 13 • wooden subframe to fix the window
- 14 • double glazing window with air chamber, thk = 10cm
- 15 • steel window frame
- 16 • strip led Novalux

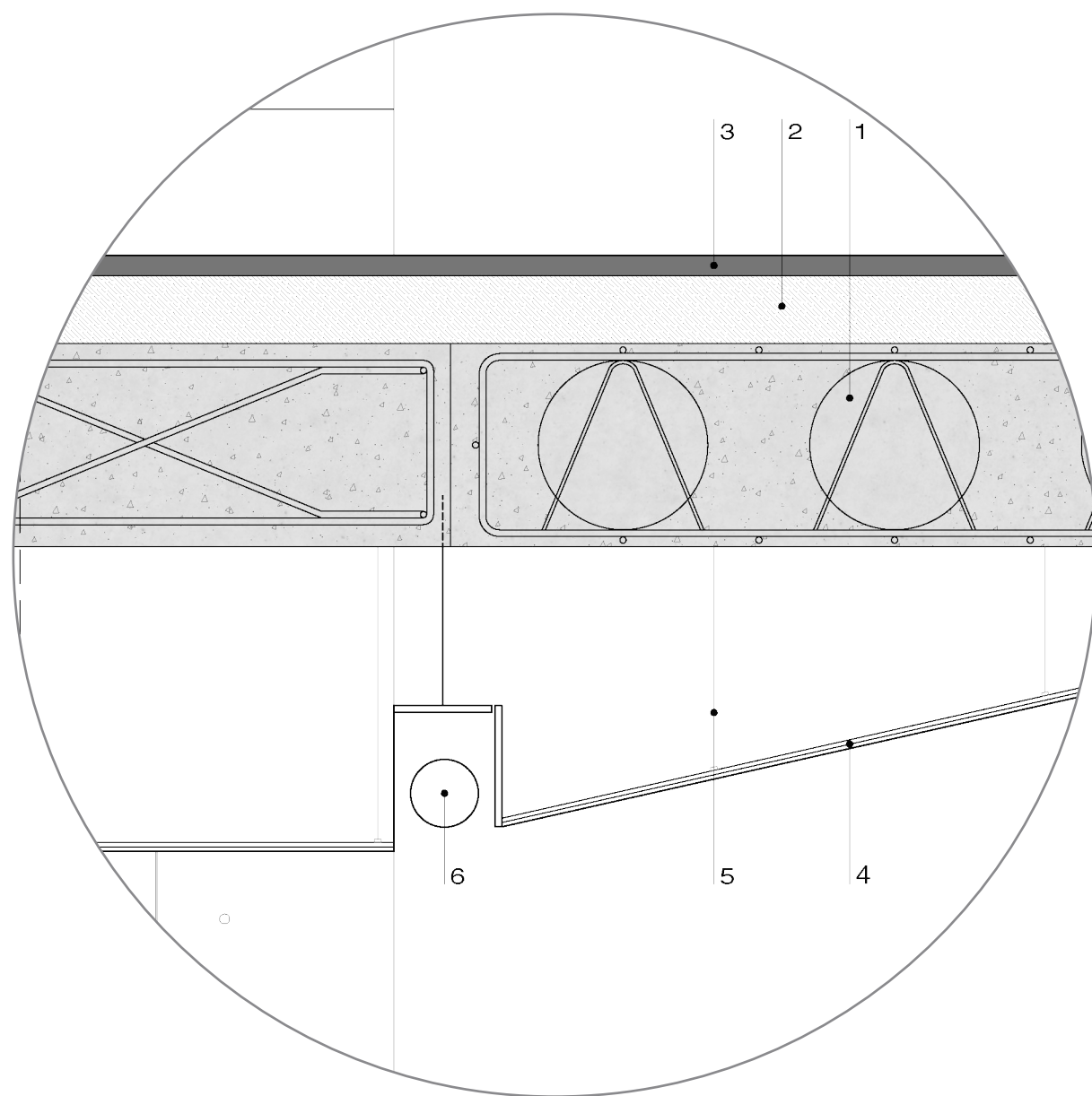
- 01 • magatelli per il sostegno del pavimento
- 02 • pavimento
- 03 • solaio cobiax
- 04 • massetto alleggerito
- 05 • piano di posa in sabbia e cemento
- 06 • doppio strato di guaina impermeabilizzante
- 07 • trave in cemento armato
- 08 • massetto alleggerito
- 09 • massetto per gli impianti
- 10 • pannello termoacustico
- 11 • piano di posa in sawbbia e cemento
- 12 • pavimento
- 13 • controtelaio in legno per il fissaggio del serramento
- 14 • serramento in acciaio con taglio termico
- 15 • telaio in acciaio
- 16 • strip led



detail 5

- 01 • hanging element to hold the two panels of plasterboard
- 02 • two panels of plasterboard Knauf, thk = (1.25+1.25)cm
- 03 • white brick, dimensions = (25 x 12.50 x 5.50)cm
- 04 • reinforced concrete beam, dimensions: (4.50 x 0.60)m
- 05 • windows sill in marble, thk = 2cm
- 06 • compensation tank, depth = 20cm
- 07 • double waterproof membrane, thk = (0.5+0.5)cm
- 08 • finishing mortar, thk = 10cm
- 09 • tiles, dimensions: (10 x 10)cm

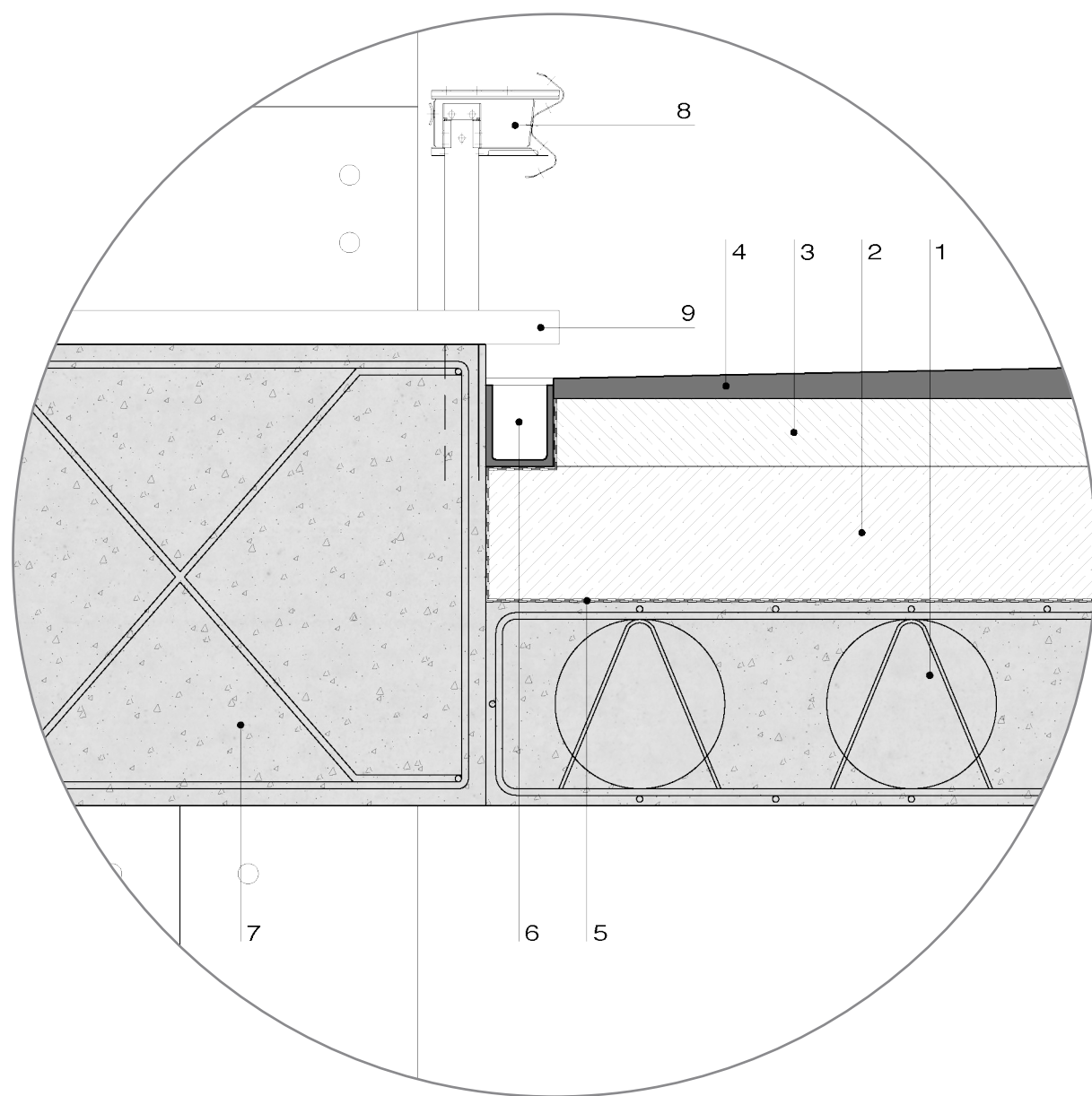
- 01 • pendino di sostegno per i pannelli in cartongesso
- 02 • due pannelli in cartongesso
- 03 • mattone scialbato
- 04 • trave in cemento armato
- 05 • davanzale della finestra in marmo
- 06 • vasca di compenso
- 07 • doppio strato di guaina impermeabilizzante
- 08 • massetto alleggerito
- 09 • cementine smaltate a mano



detail 2

- 01 • cobiax slab
- 02 • finishing mortar, thk = 20cm
- 03 • concrete flooring, thk = 6cm
- 04 • two panels of plasterboard Knauf, thk = (12.50+12.50)cm
- 05 • hanging element to hold the two panels of plasterboard
- 06 • strip led Novalux

- 01 • solaio cobiax
- 02 • massetto alleggerito
- 03 • pavimento in calcestruzzo di tipo industriale
- 04 • due pannelli in cartongesso
- 05 • pendino di sostegno per i pannelli in cartongesso
- 06 • strip led Novalux



detail 6

- 01 • cobiax slab, thk = 0.60m
- 02 • finishing mortar, thk = 40cm
- 03 • binder, thk = 20cm
- 04 • asphalt with an incline of the 2%, thk = from 6cm to 10cm
- 05 • double waterproof membrane, thk = (0.5+0.5)cm
- 06 • water channel in concrete
- 07 • reinforced concrete beam, dimensions = (1.80 x 1.36)m
- 08 • guard rail in stainless steel
- 09 • sheet of stone to cover the water channel and support the guard rail, thk = 10cm

- 01 • solaio cobiax
- 02 • massetto in cemento
- 03 • binder
- 04 • asfalto con pendenza del 2%
- 05 • doppio strato di guaina impermeabilizzante
- 06 • canale per la raccolta dell'acqua piovana
- 07 • trave in cemento armato
- 08 • profilo drenante in alluminio
- 09 • guard rail
- 10 • lastra di pietra

