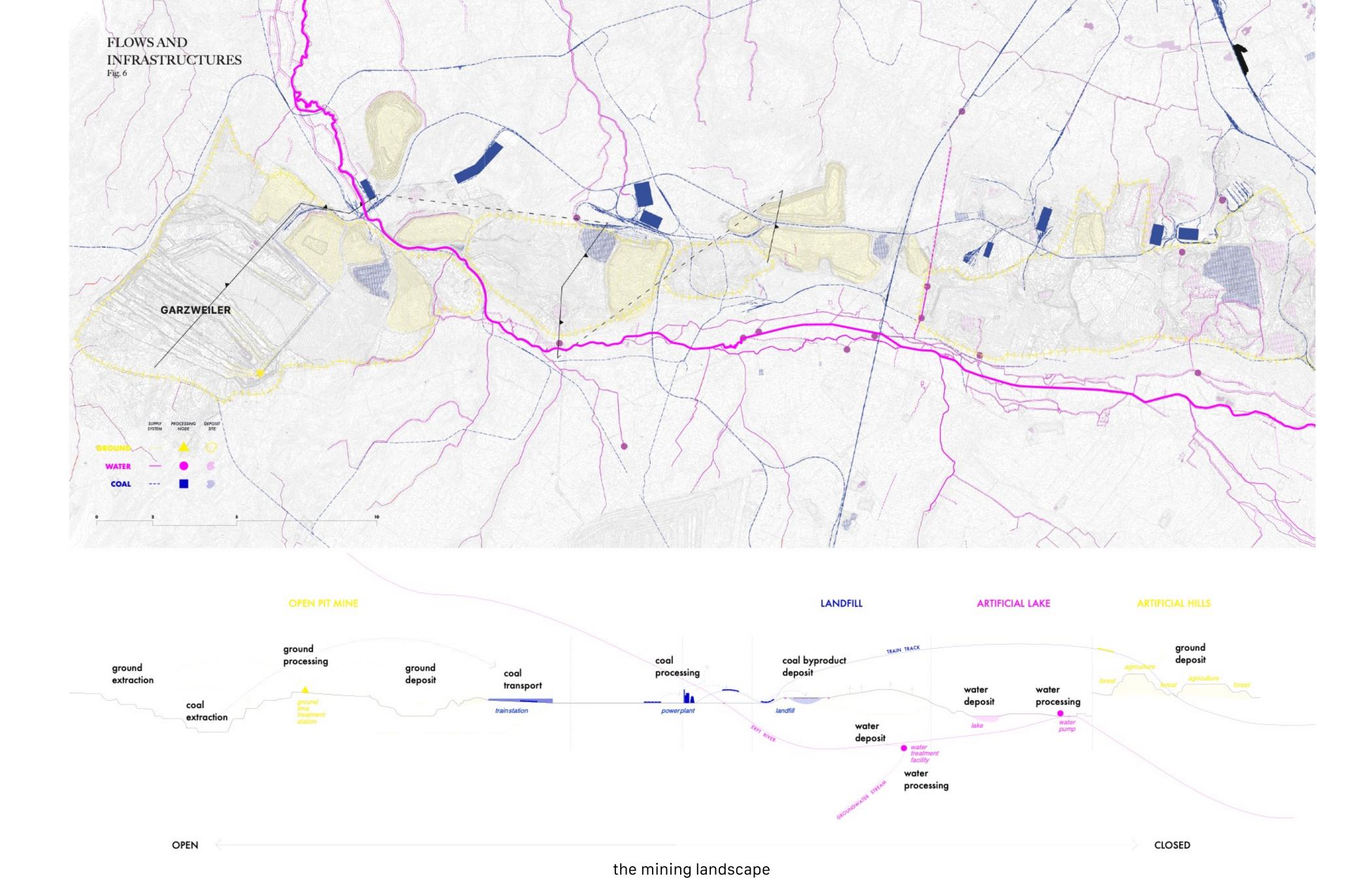
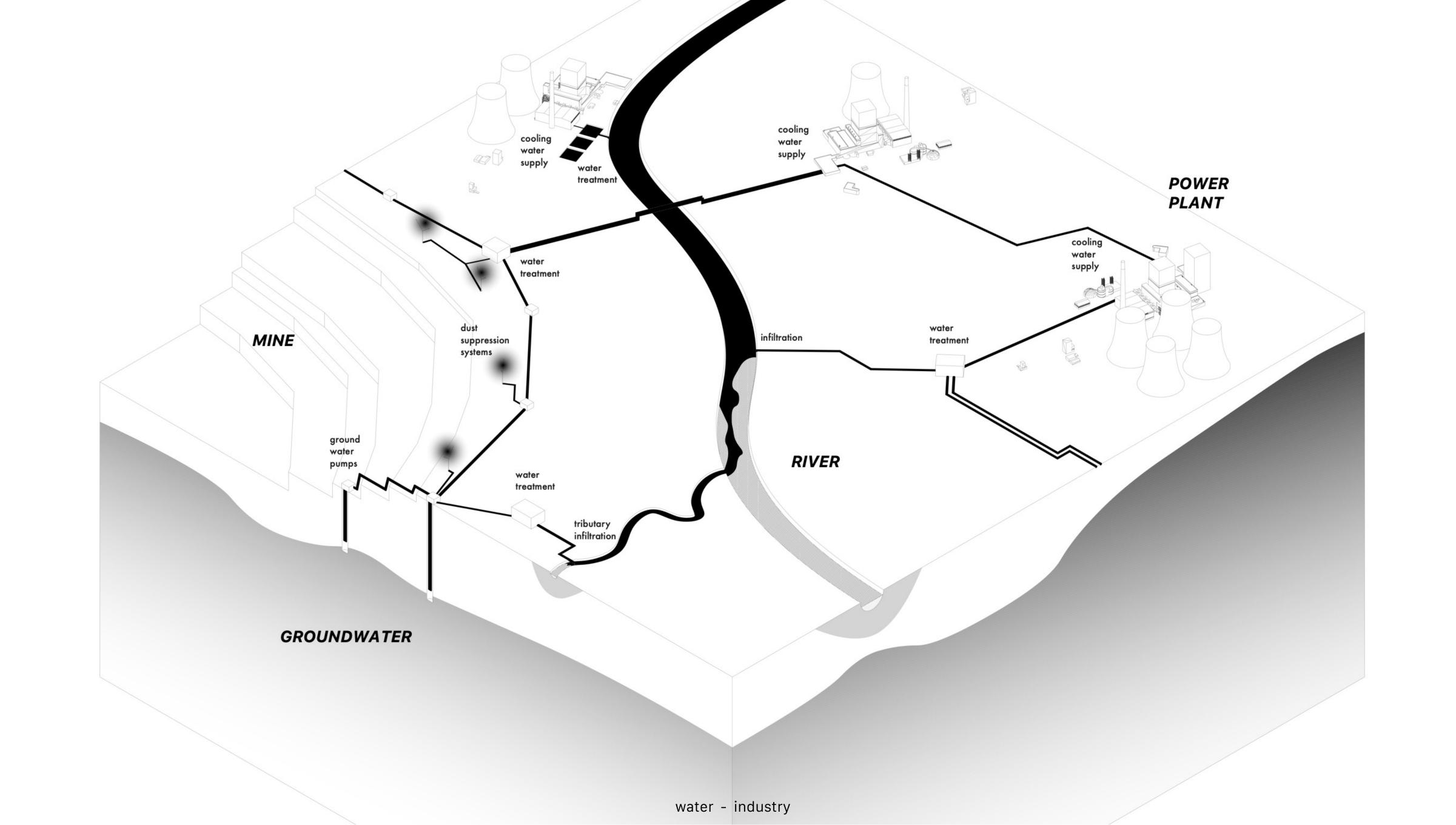


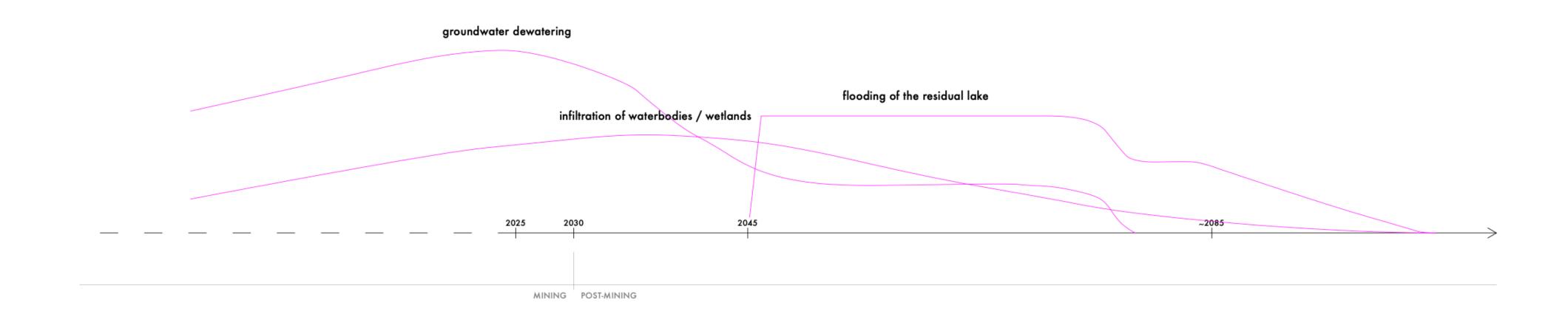
the mining landscape

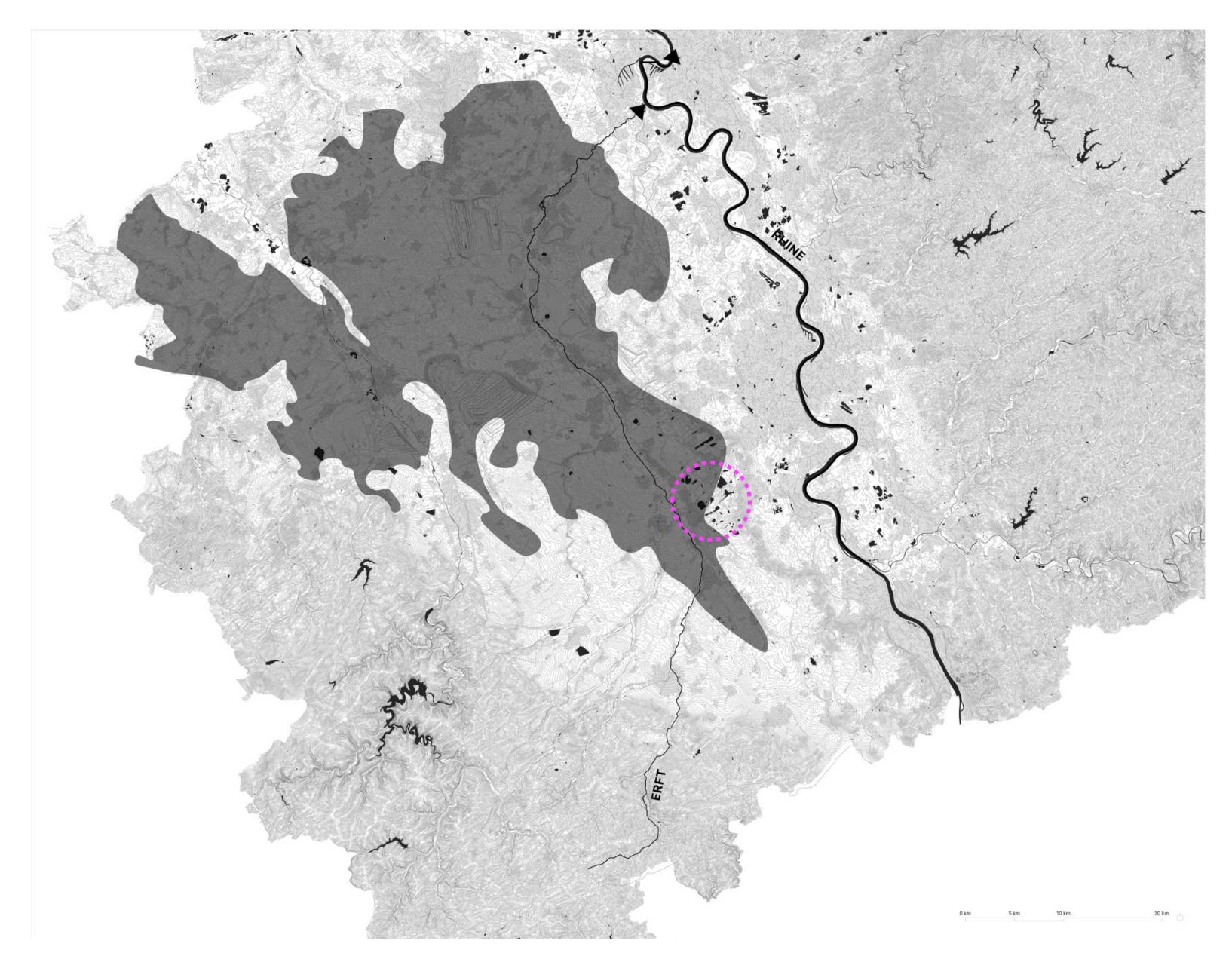
lignite mining areas

power plant









groundwater lowering





§ 15 Federal Nature Conservation Act

Compensation and Replacement Measures (Condensed)

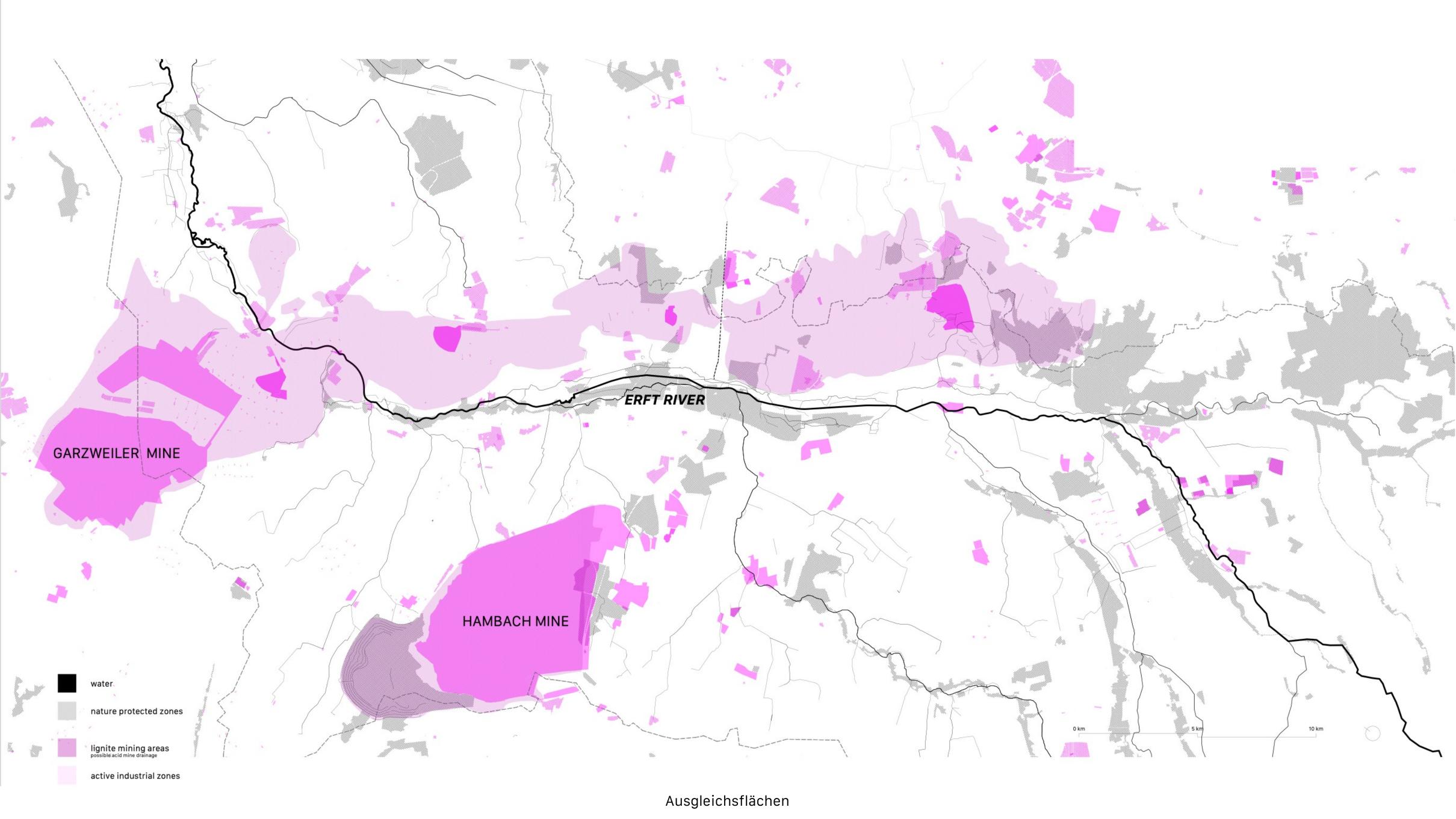
(1) Avoiding interventions Interventions in nature and the landscape should be avoided or minimized as much as possible.

## (2) Compensation and replacement measures

Unavoidable impacts must be compensated through compensation measures (restoring the affected functions) or replacement measures (equivalent ecological improvements).

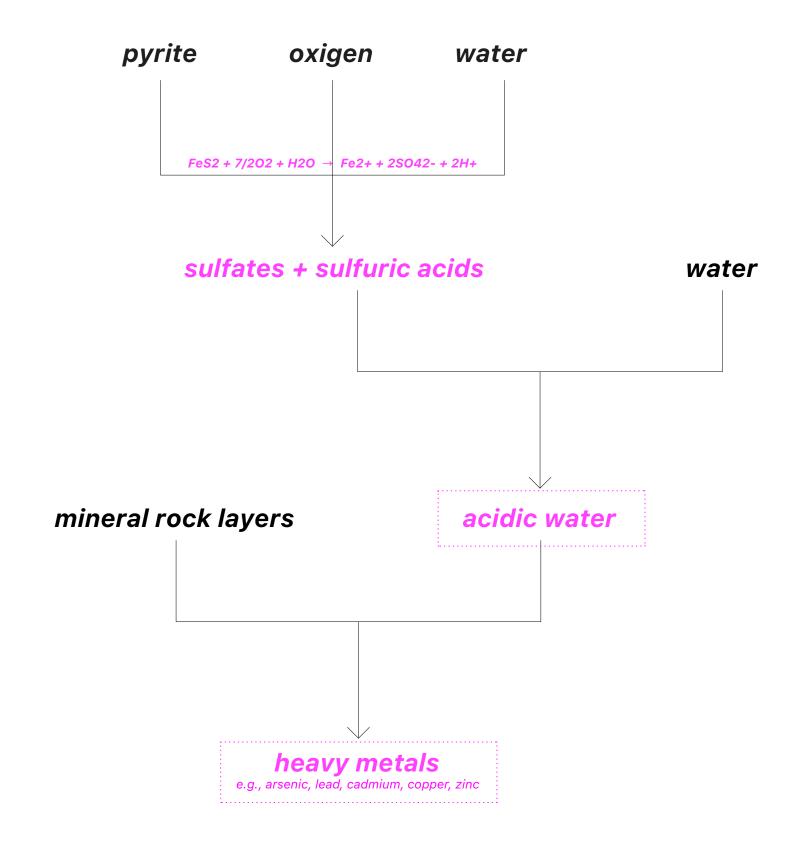
(3) Compensatory payment

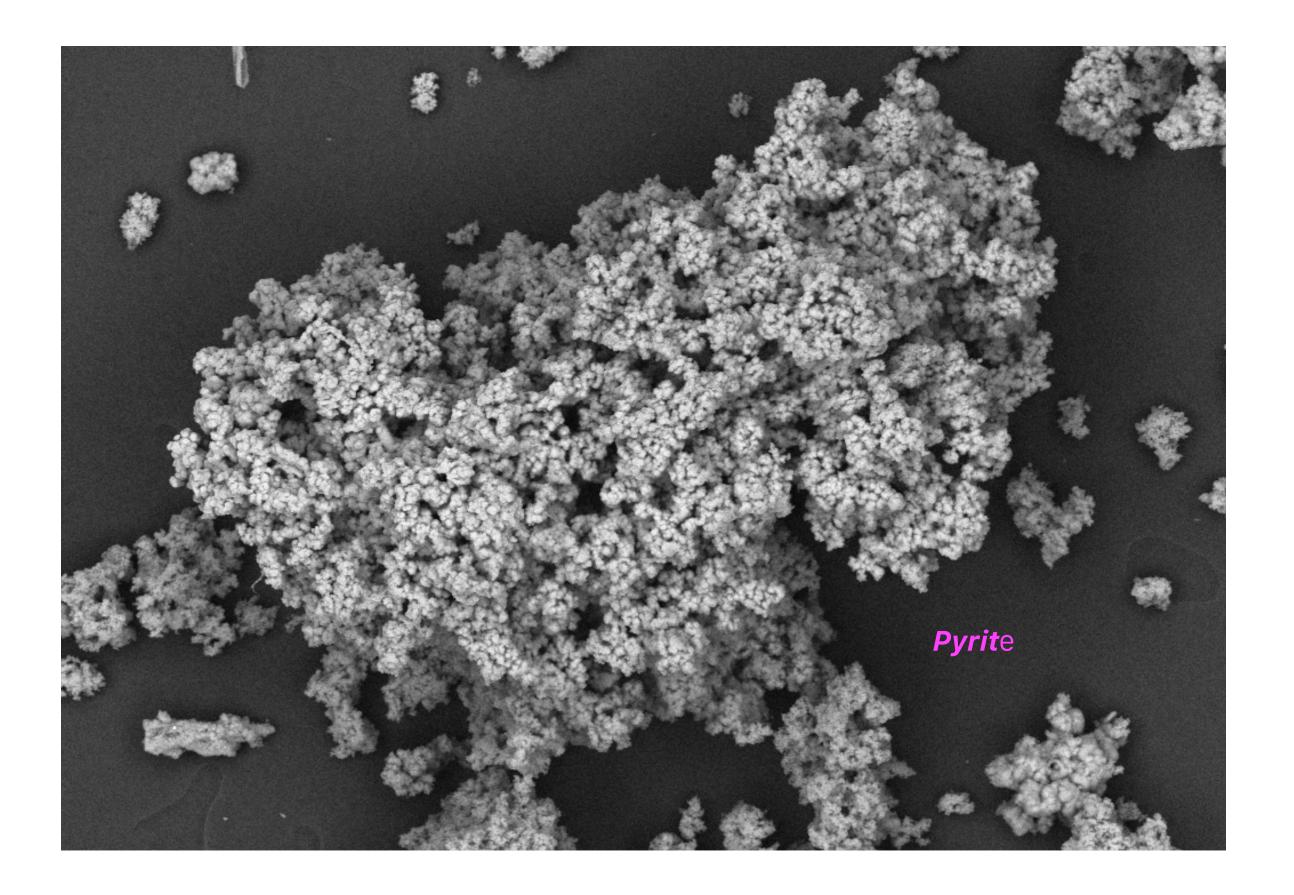
If compensation or replacement measures are not possible, a compensatory payment must be made, which is earmarked for nature conservation and landscape management measures.



## Human and Non-Human

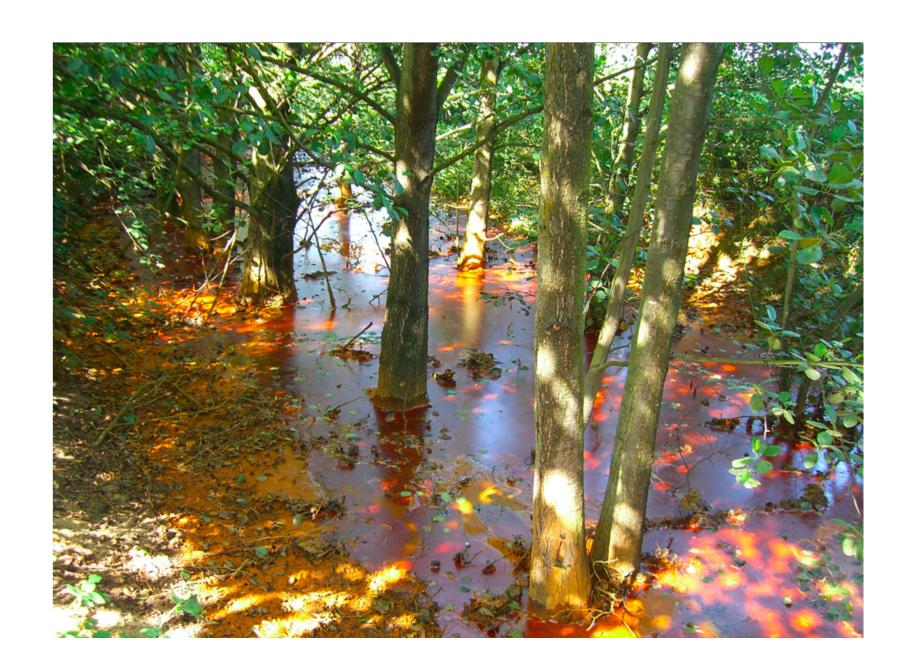
The separation between human and non-human actors mirrors the current vocabulary of landscapes shaped by industrial activity. This binary is evident in the rigid distinction between isolated, idealized nature-protected zones and the highly extractive operations that dominate surrounding areas. While this framing reflects the dominant approach to managing these landscapes, it risks oversimplifying the dynamic and fluid relationships that define such environmnets. This research challenges the rigidity of this framework, advocating for a perspective that embraces fluidity and less-defined interactions.





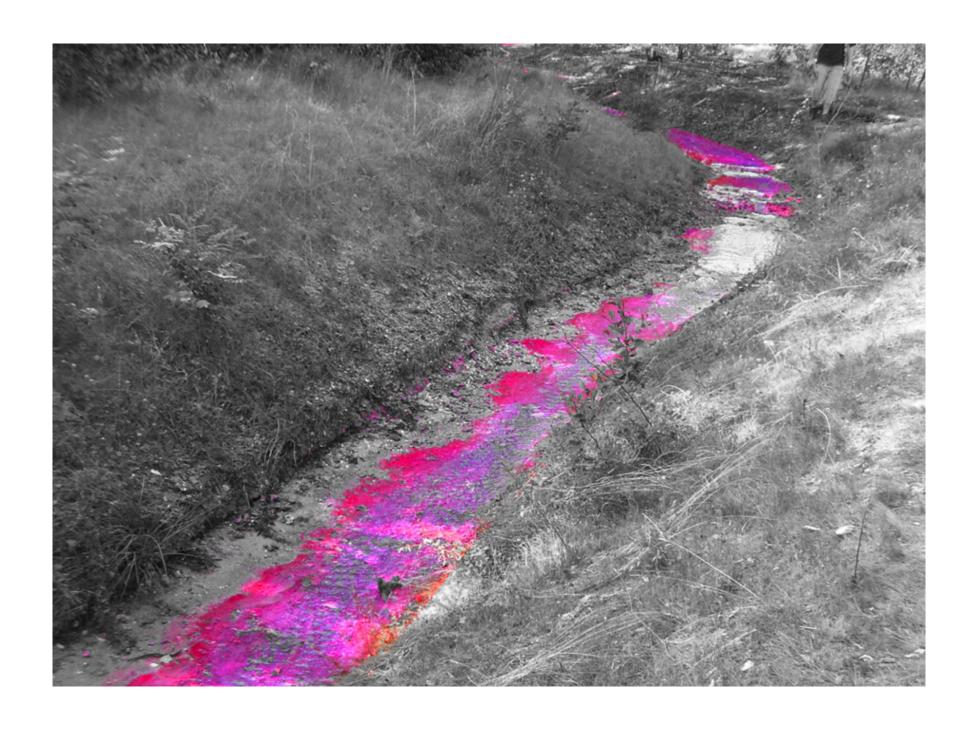








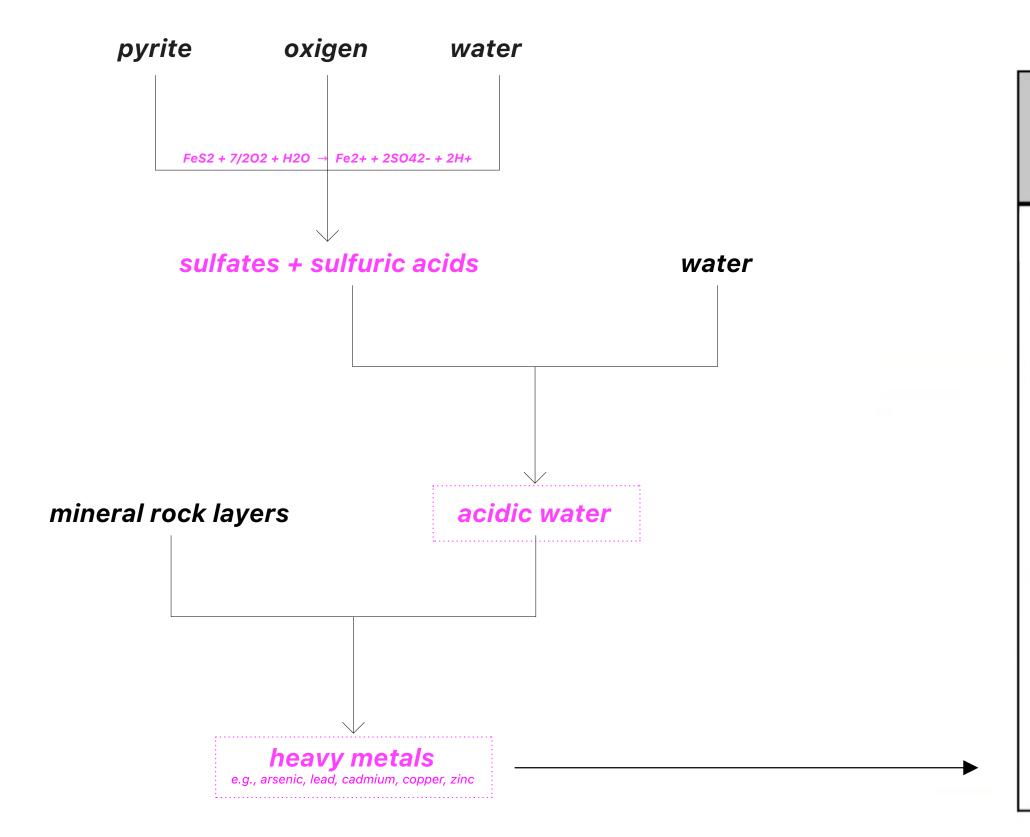
contamination - visible signs



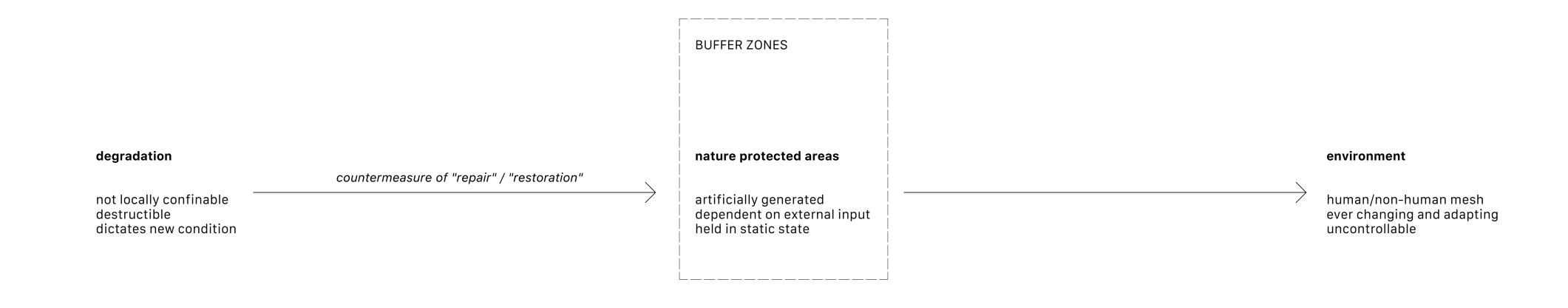


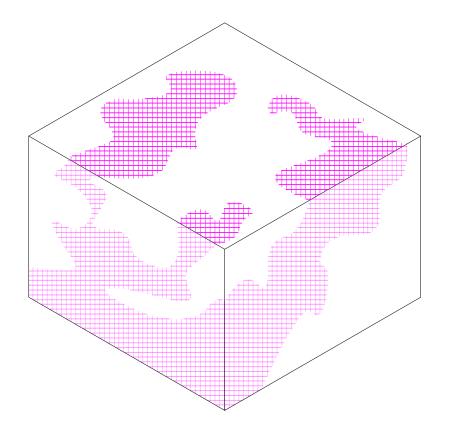


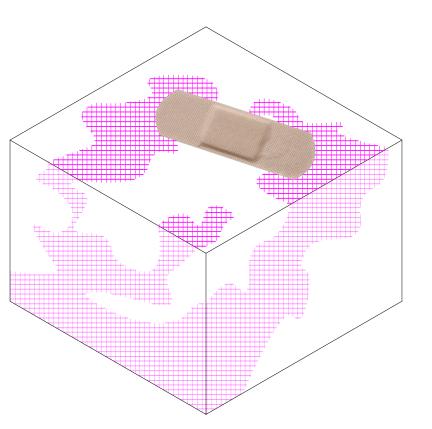
# 190 ground water testings / 32 surface water testings:

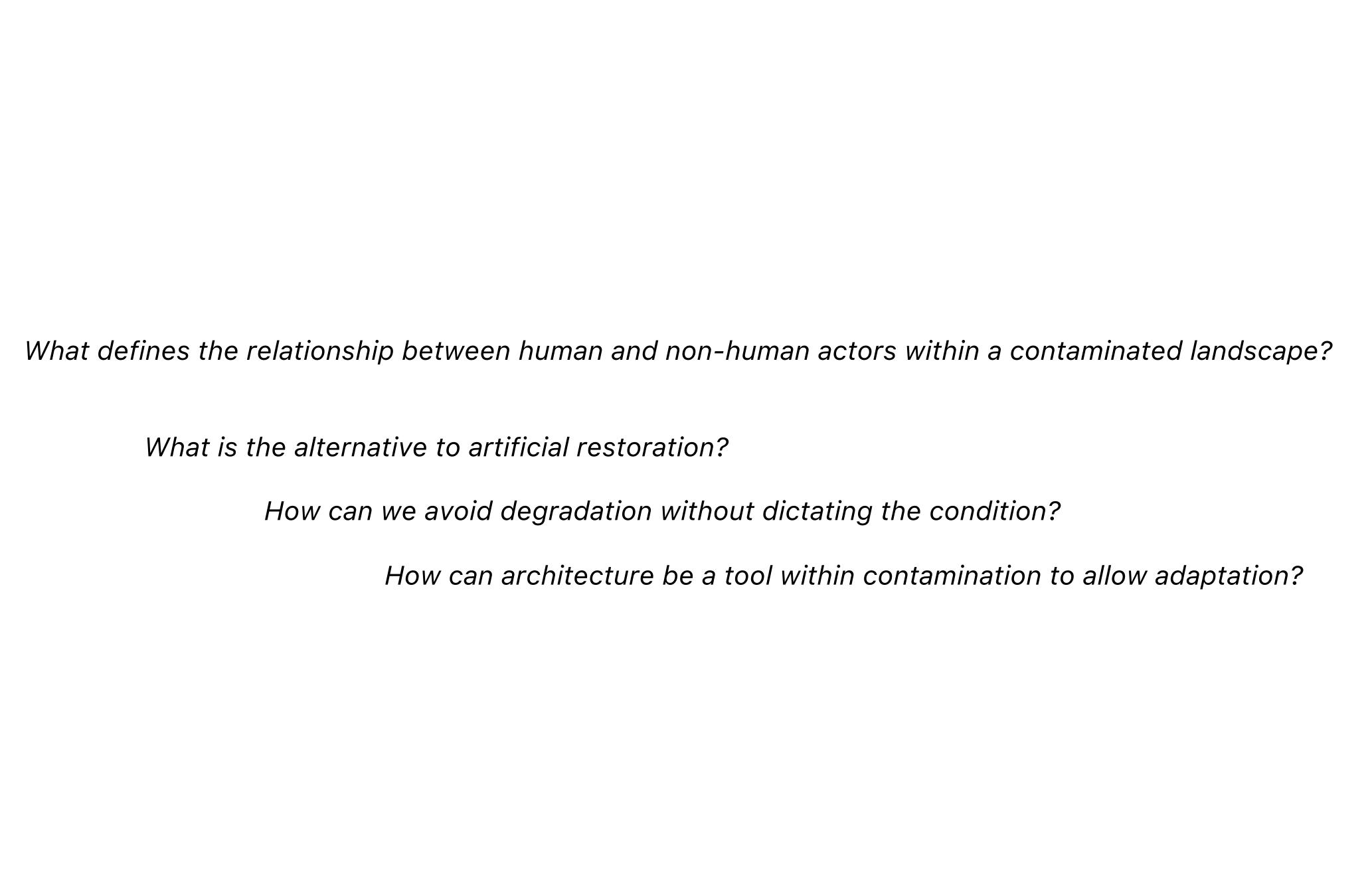


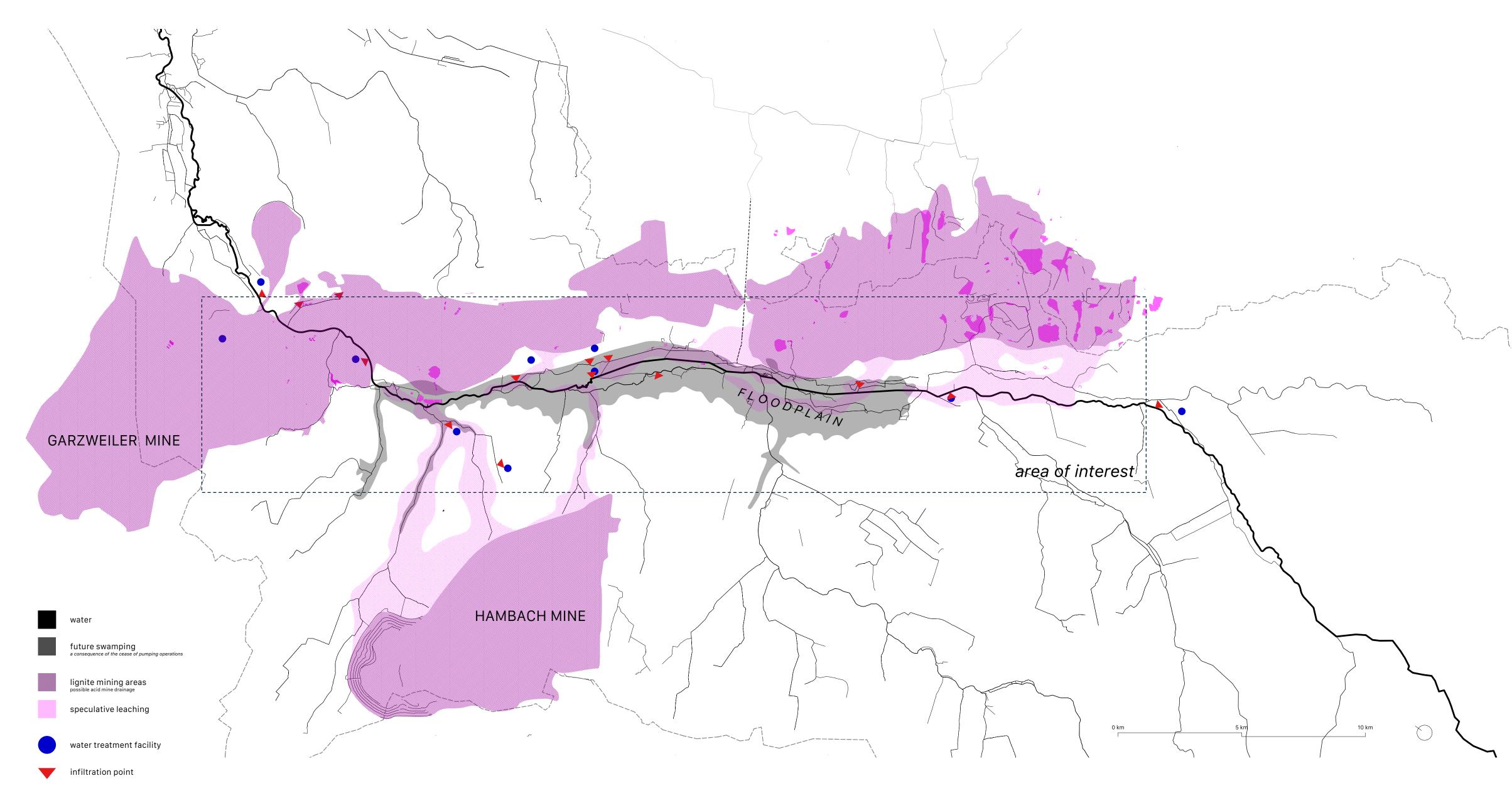
		Kippengrundwasser		Oberflächenwasser
		(Min - Max)	(Mittel)	(Min - Max)
pH-value	[-]	3,5 - 7,4	5,8	2,4 - 6,0
Calcium	[mg/l]	35 - 906	543	323 - 680
Magnesium	[mg/l]	39,9 - 296	144	76 - 160
Iron	[mg/l]	5,9 - 2260	588	17 - 1182
Sulfate	[mg/l]	700 - 5842	2809	1090 - 6590
Nickel	[mg/l]	0,005 - 14,0	2,15	0,107 - 3,88
Zinc	[mg/l]	0,02 - 33,1	4,65	0,090 - 6,39
Cobalt	[mg/l]	0,002 - 3,1	0,71	0,051 - 2,77
Arsenic	[mg/l]	<0,005 - 3,15	0,44	<0,005 - 0,14





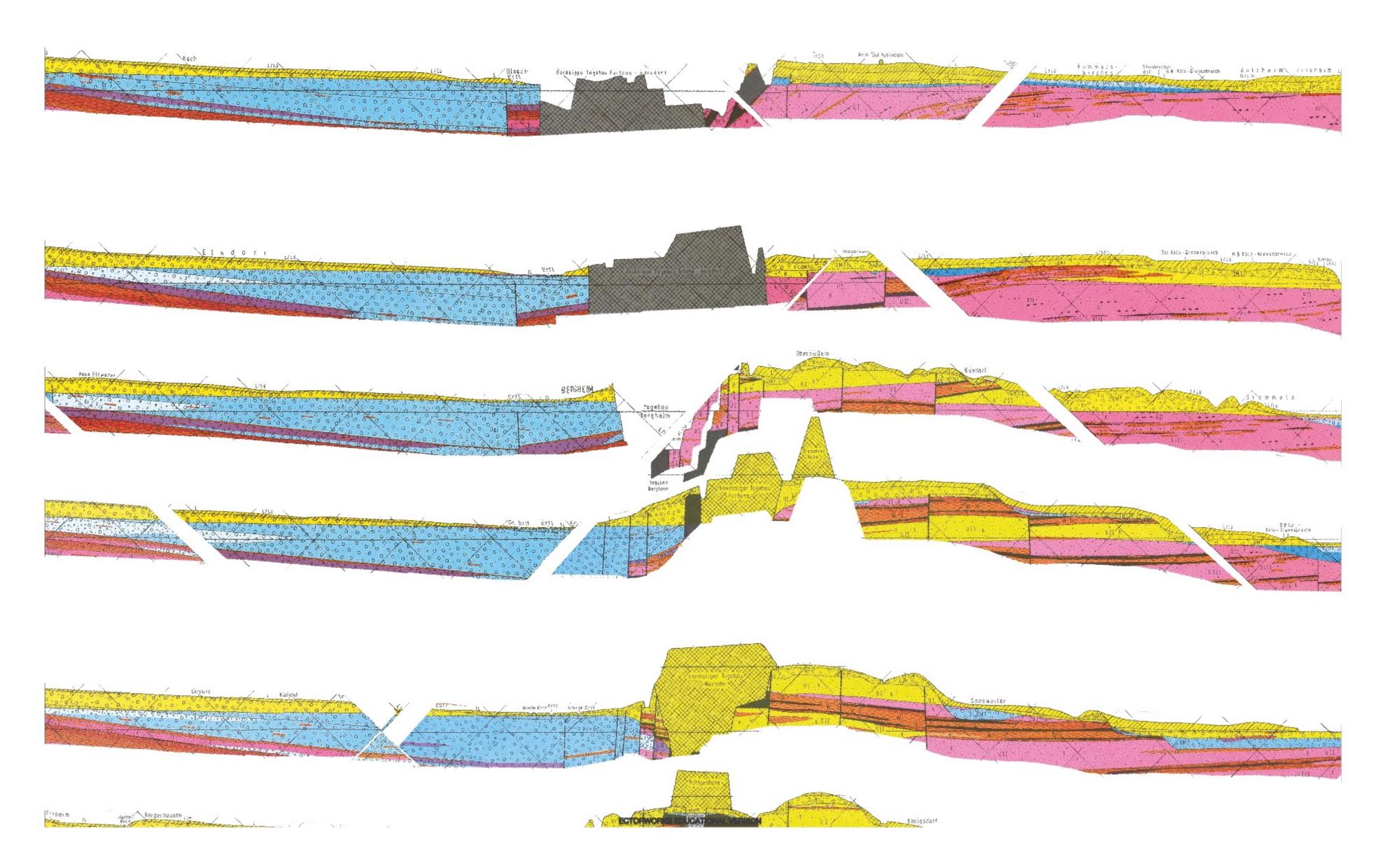




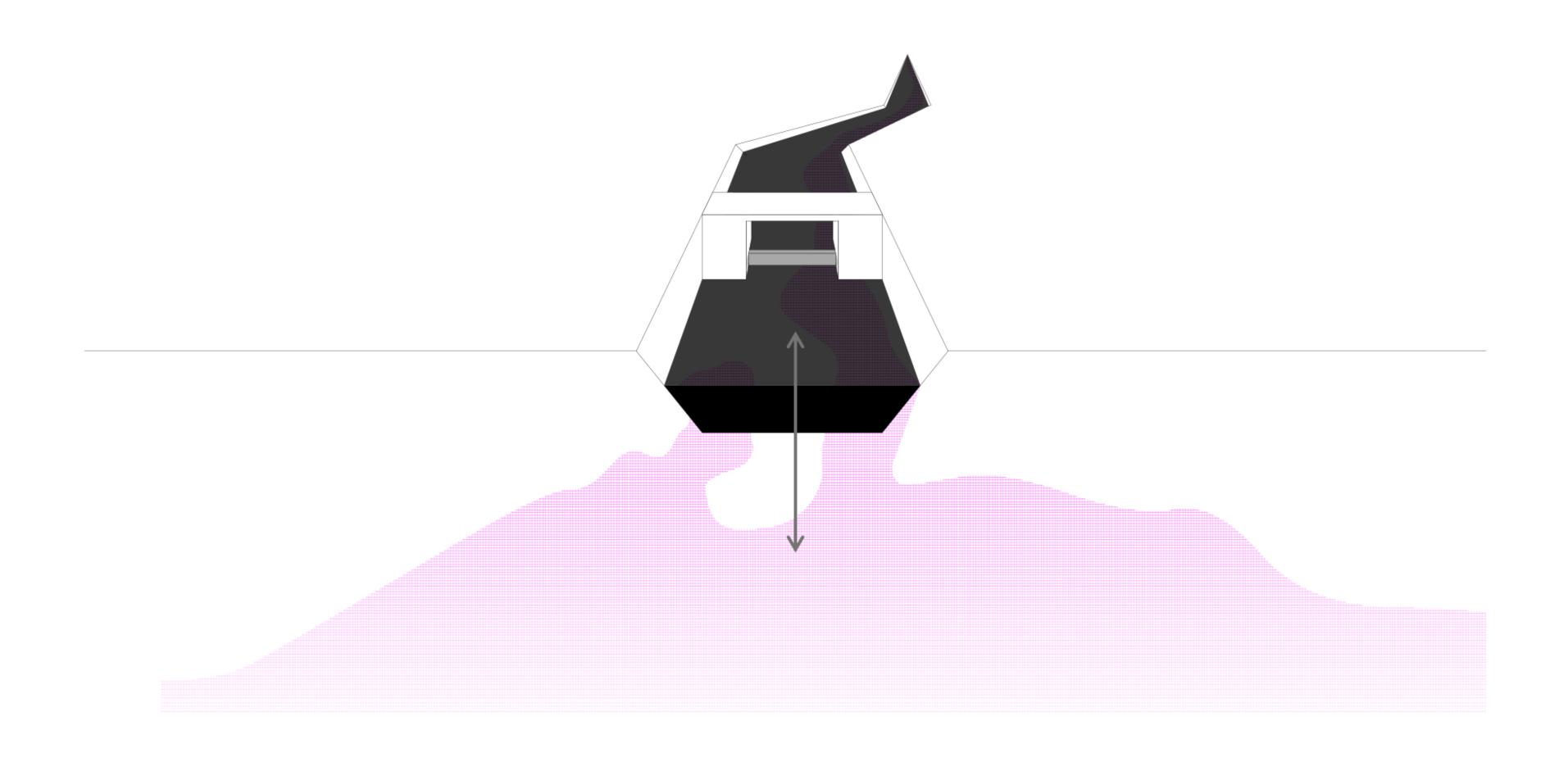


area of interest

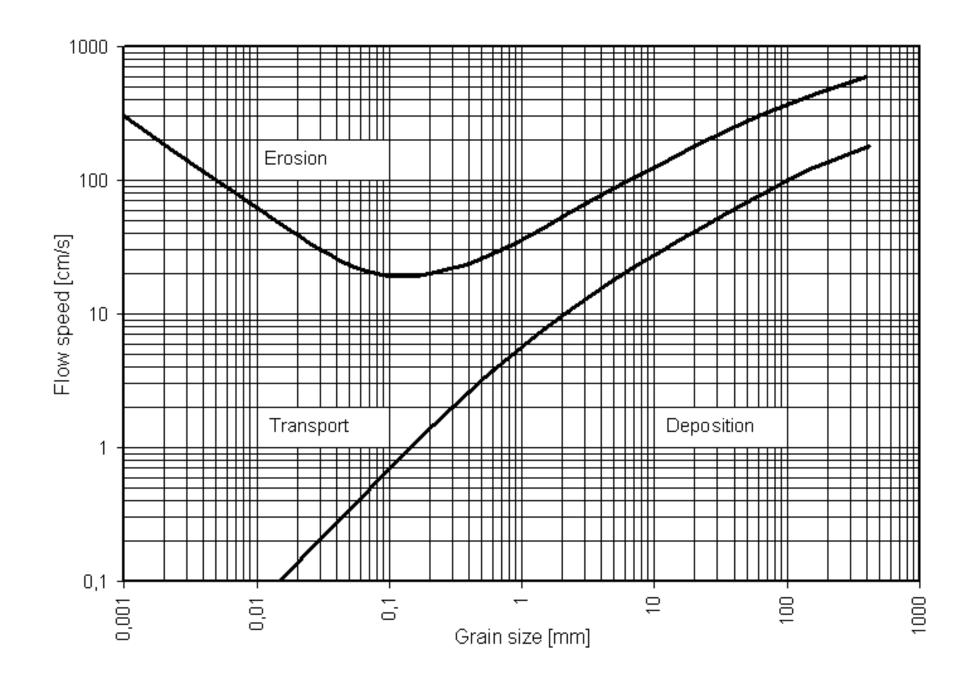




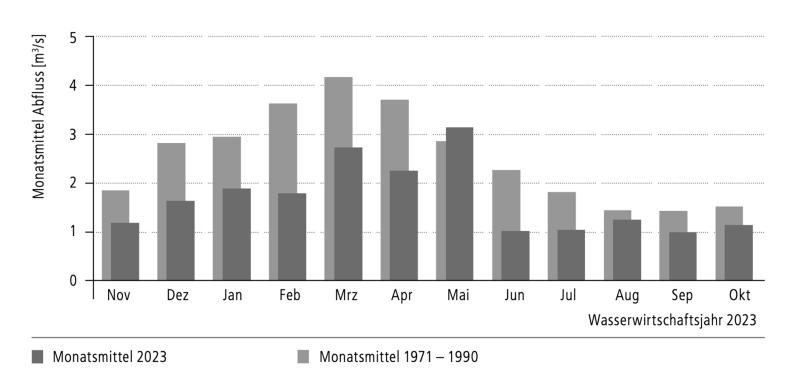
the river as an interface



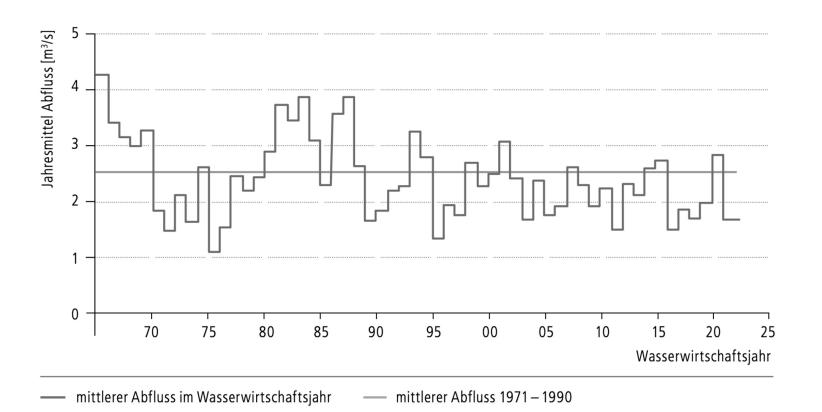




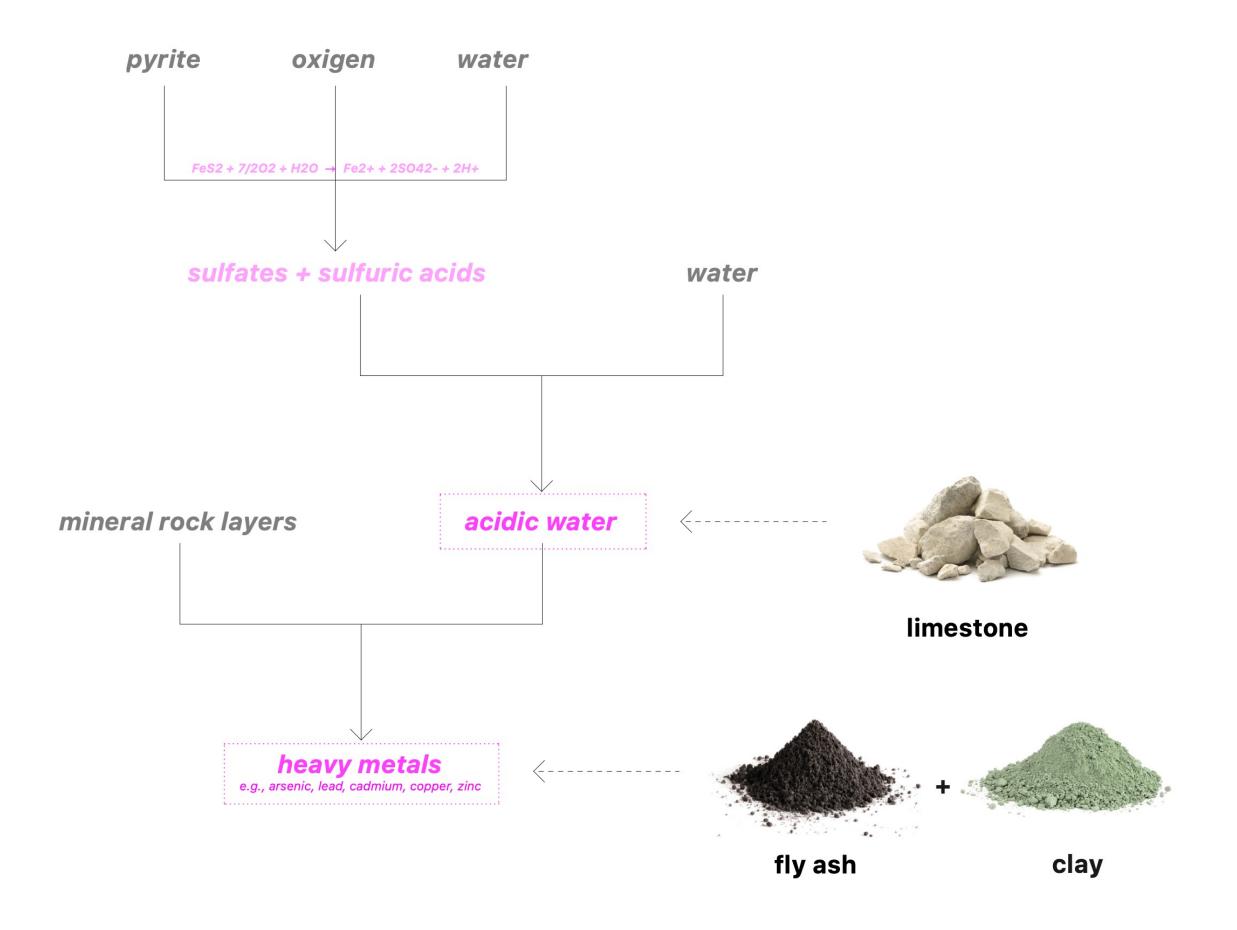
#### mean monthly discharge



### annual average discharge

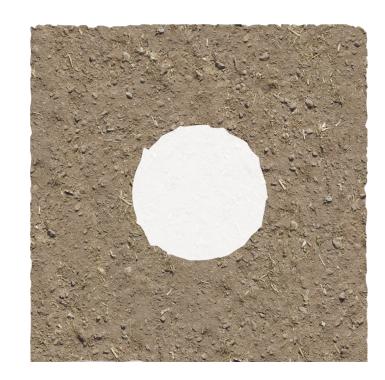










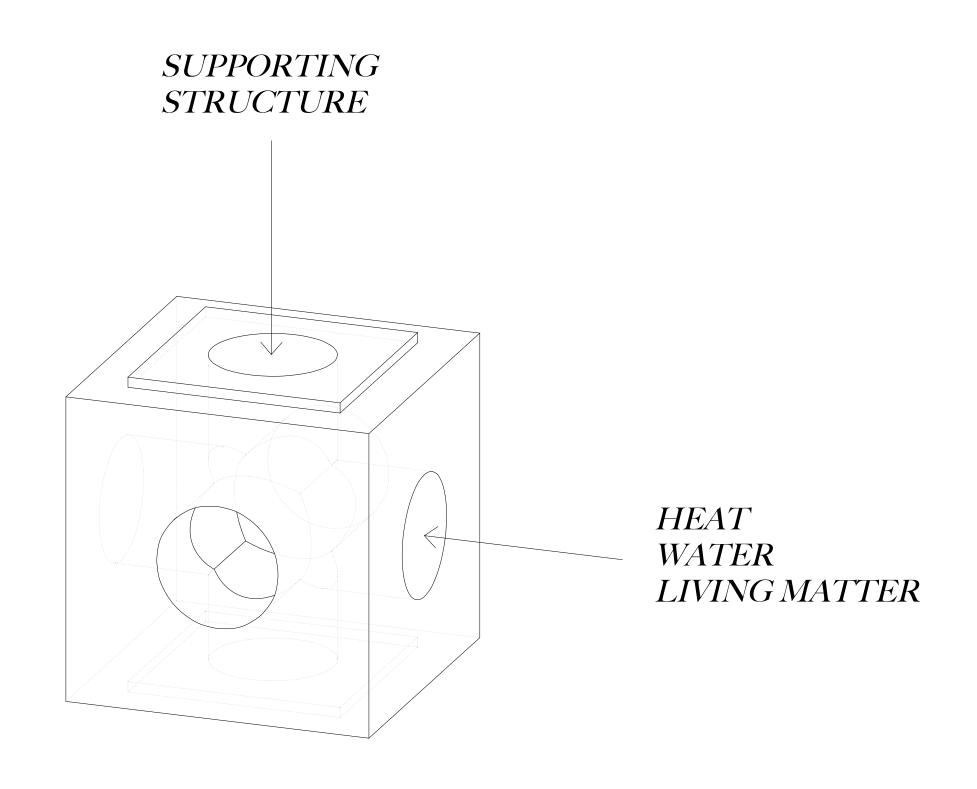


Geo-: relating to the Earth or land.

Prosthetic: an artificial extension or device that replaces or enhances a missing or impaired part.

A Geoprosthetic refers to an artificial or designed material intervention into the Earth or Landscape that acts as an extension, replacement, or augmentation of natural systems.





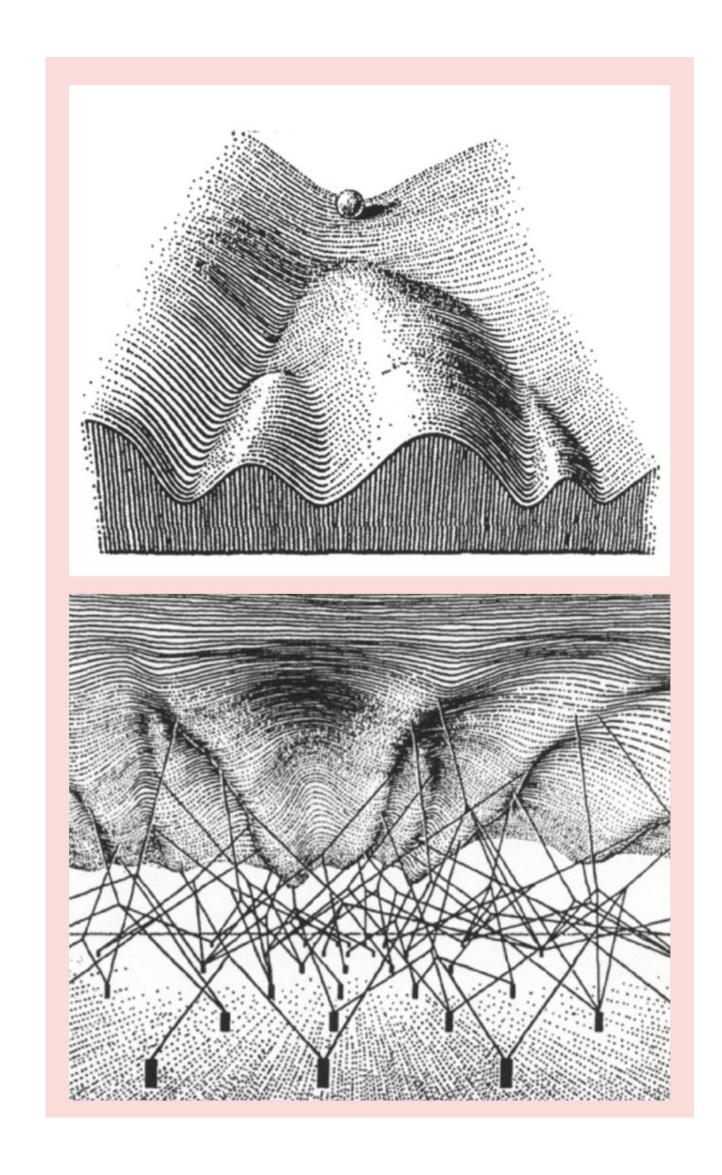




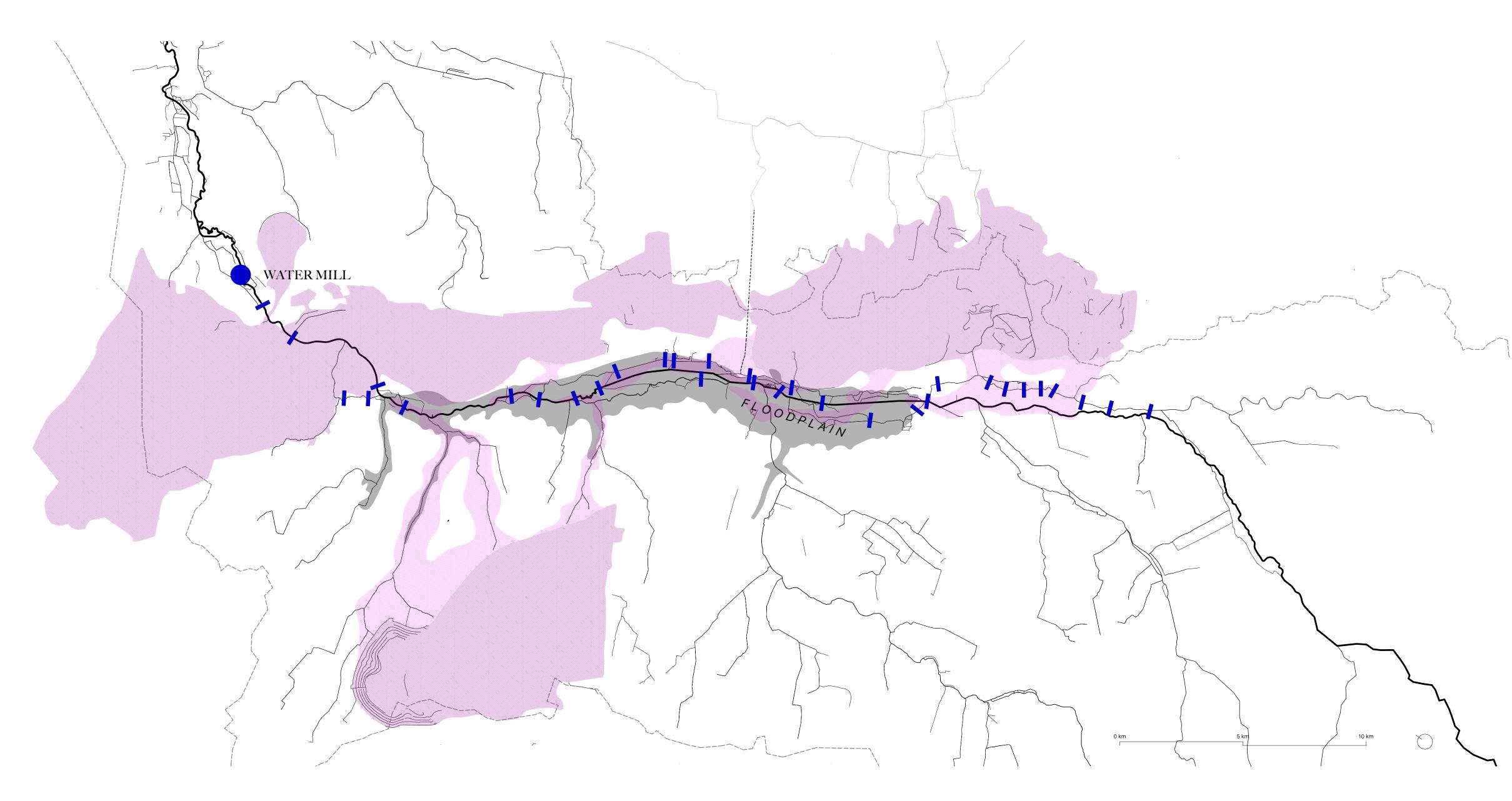




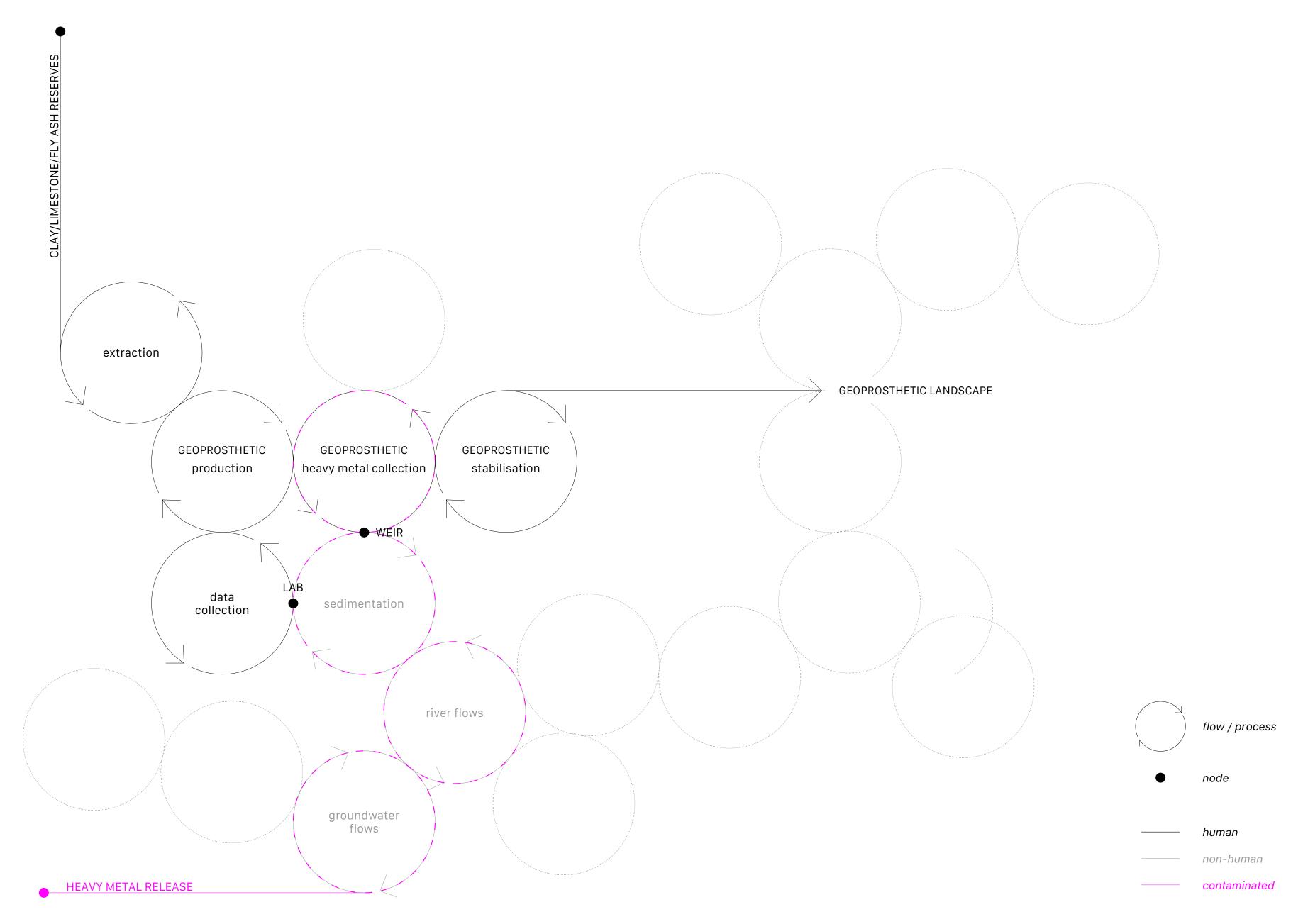
matter-in-transition



**Epigenetic Territory** 

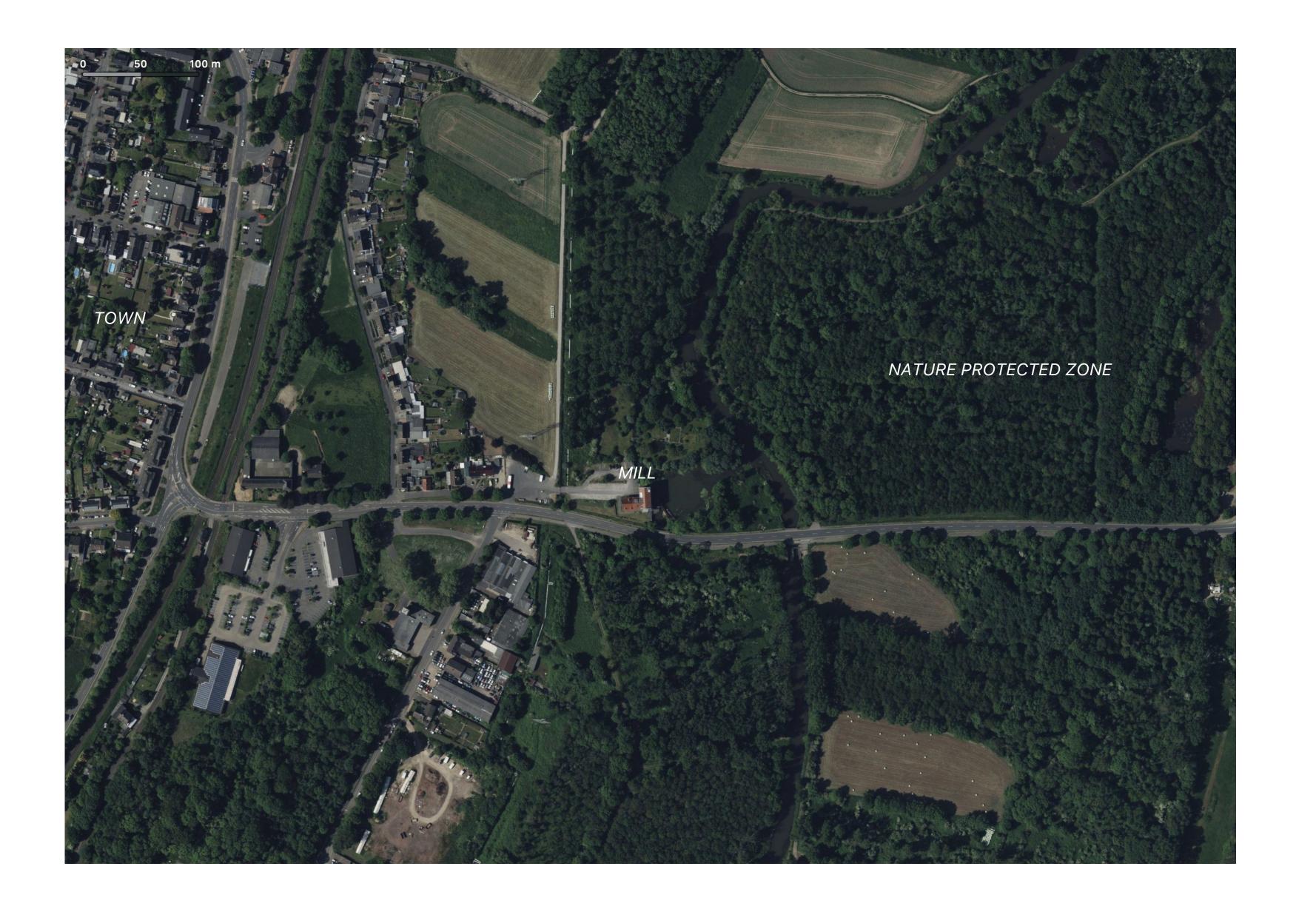


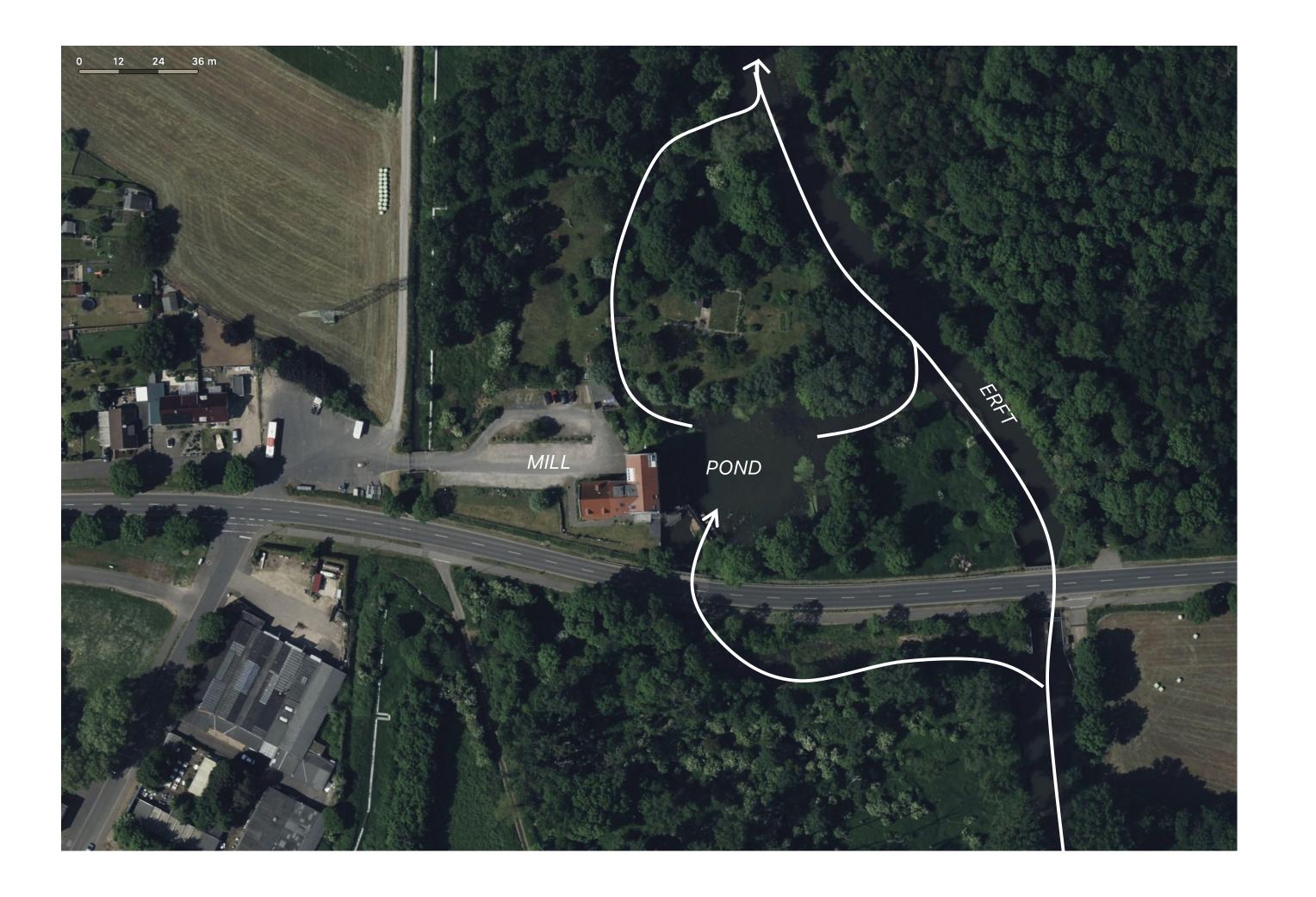
weir systems

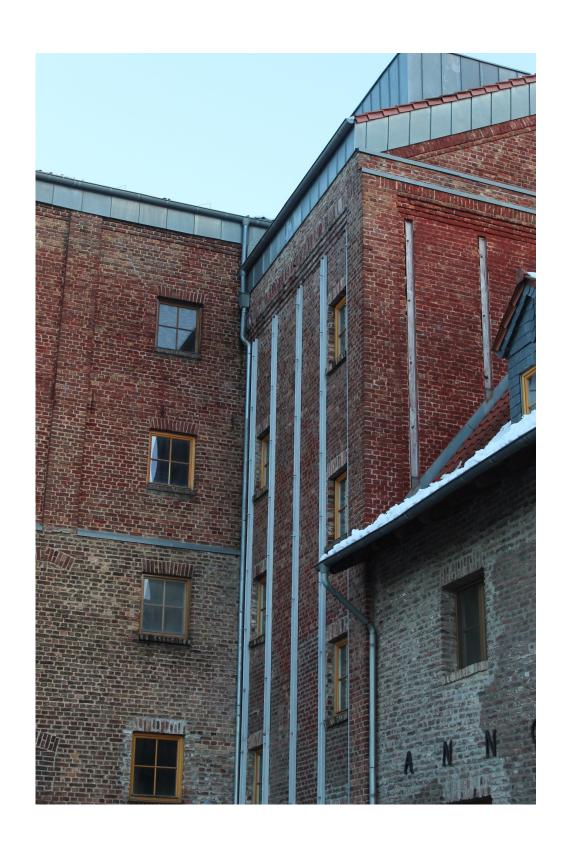


flows and nodes





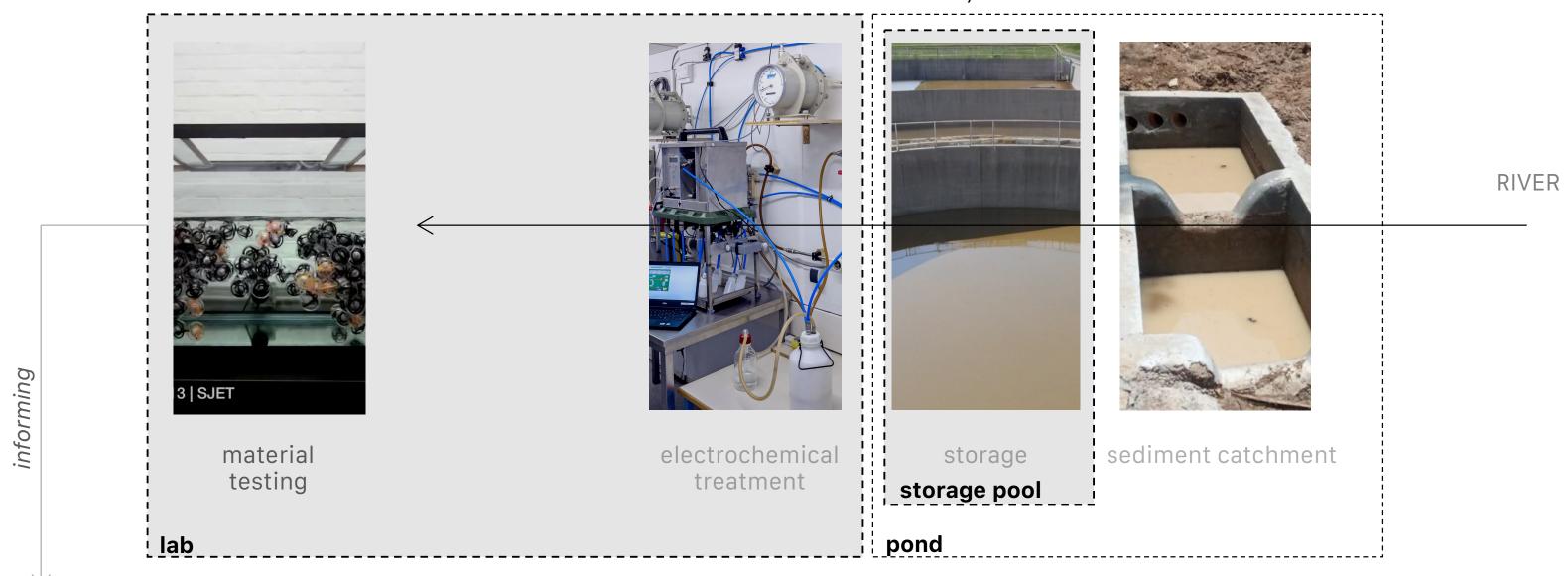






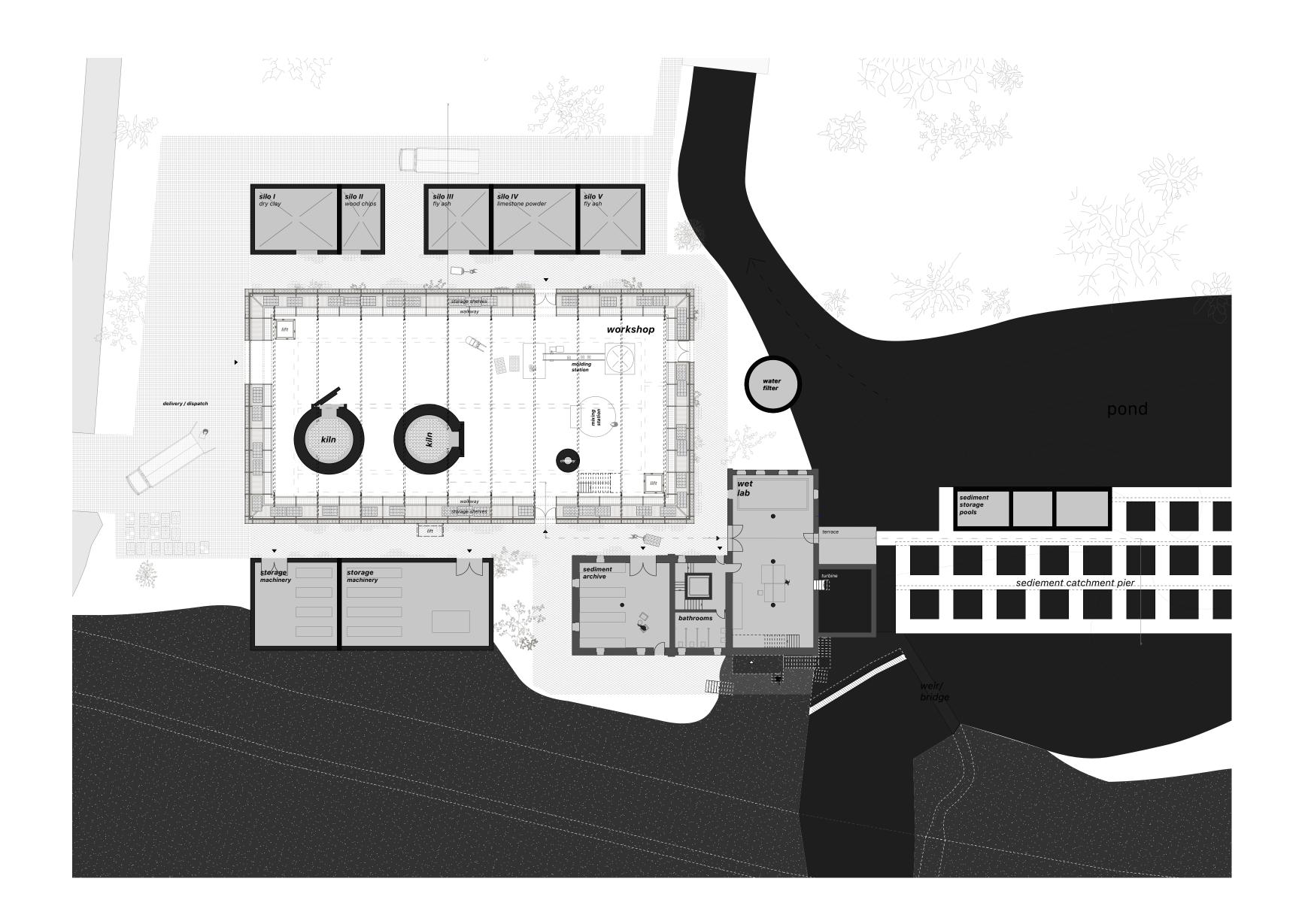


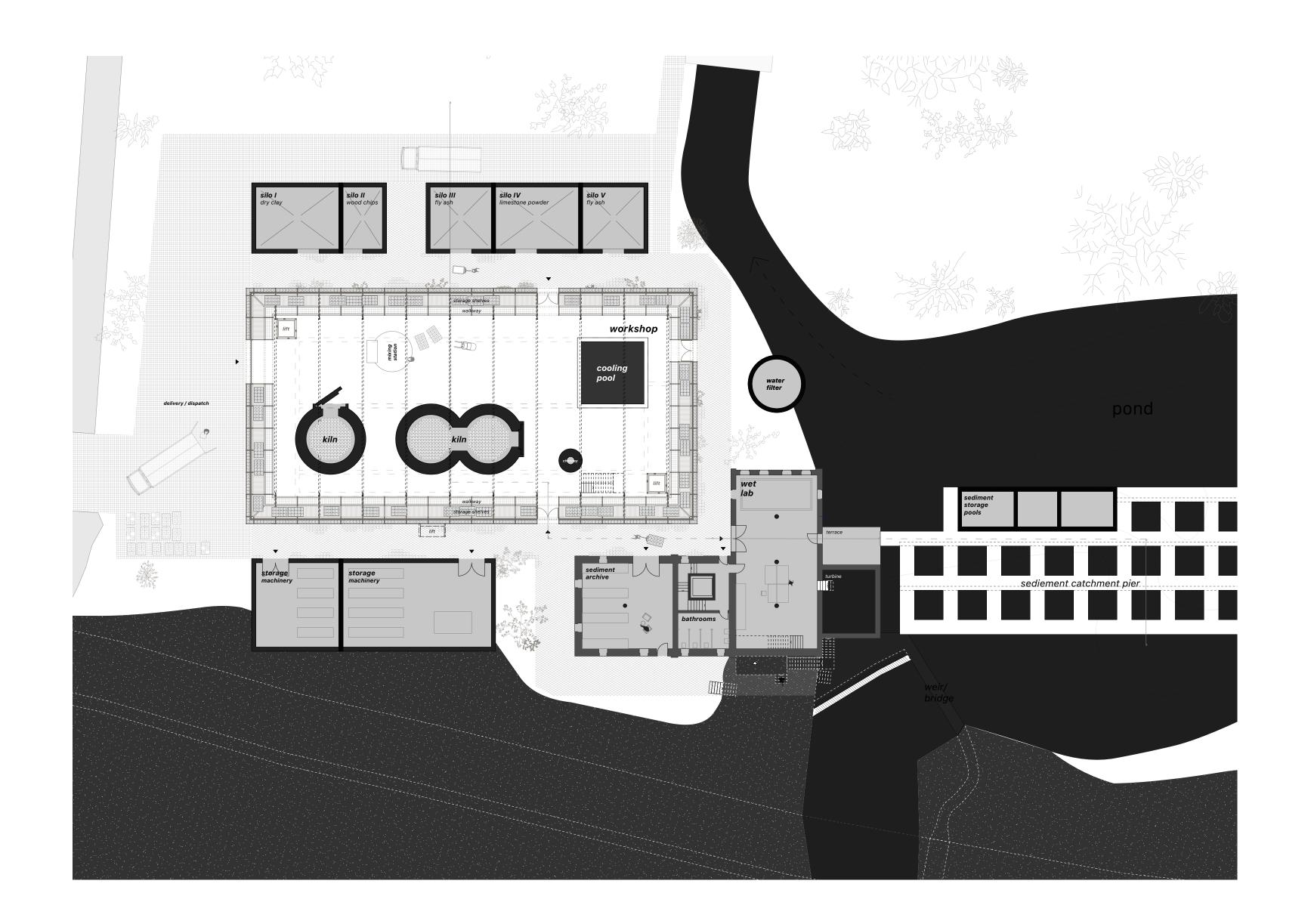
## RESEARCH / MONITORING

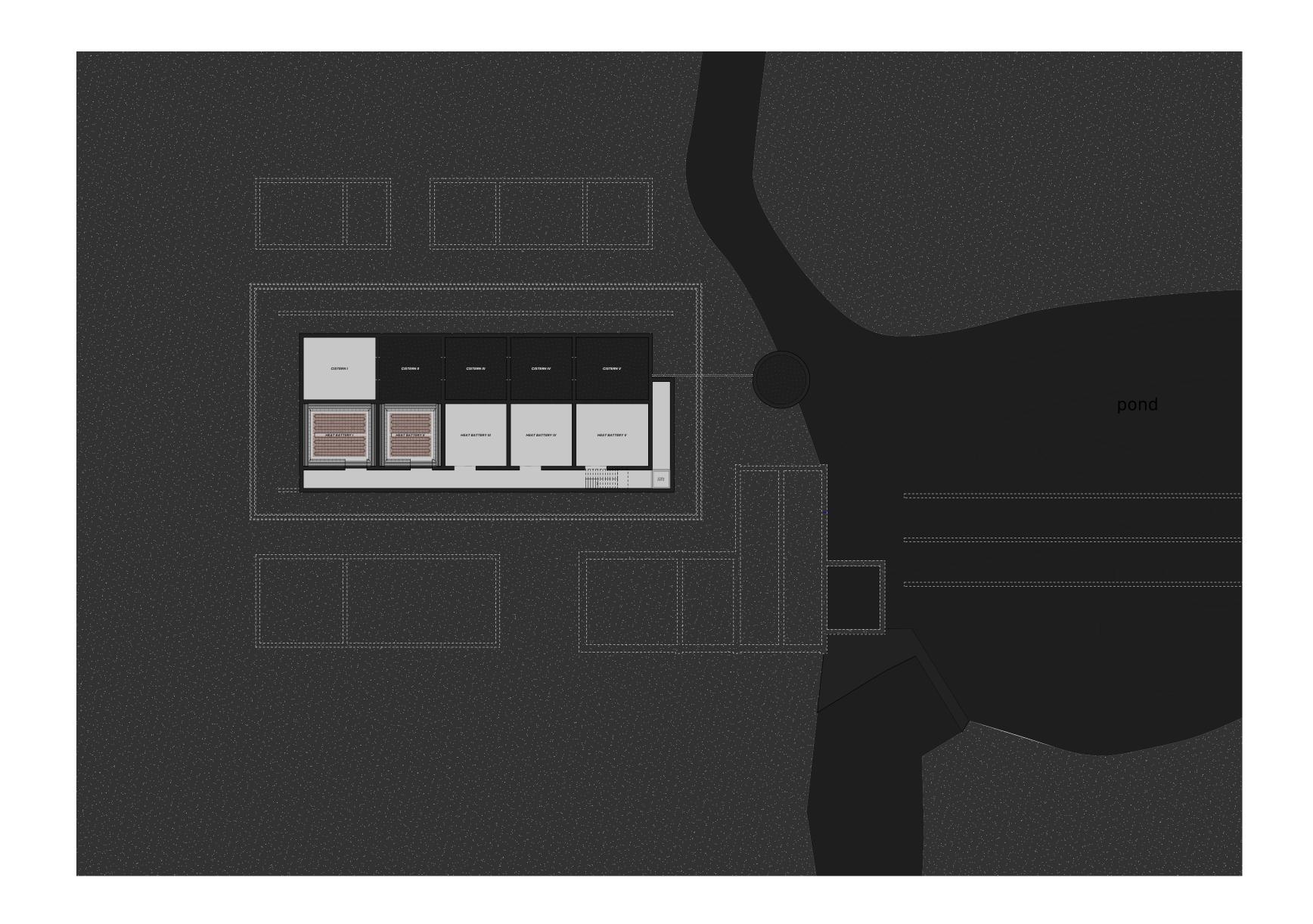


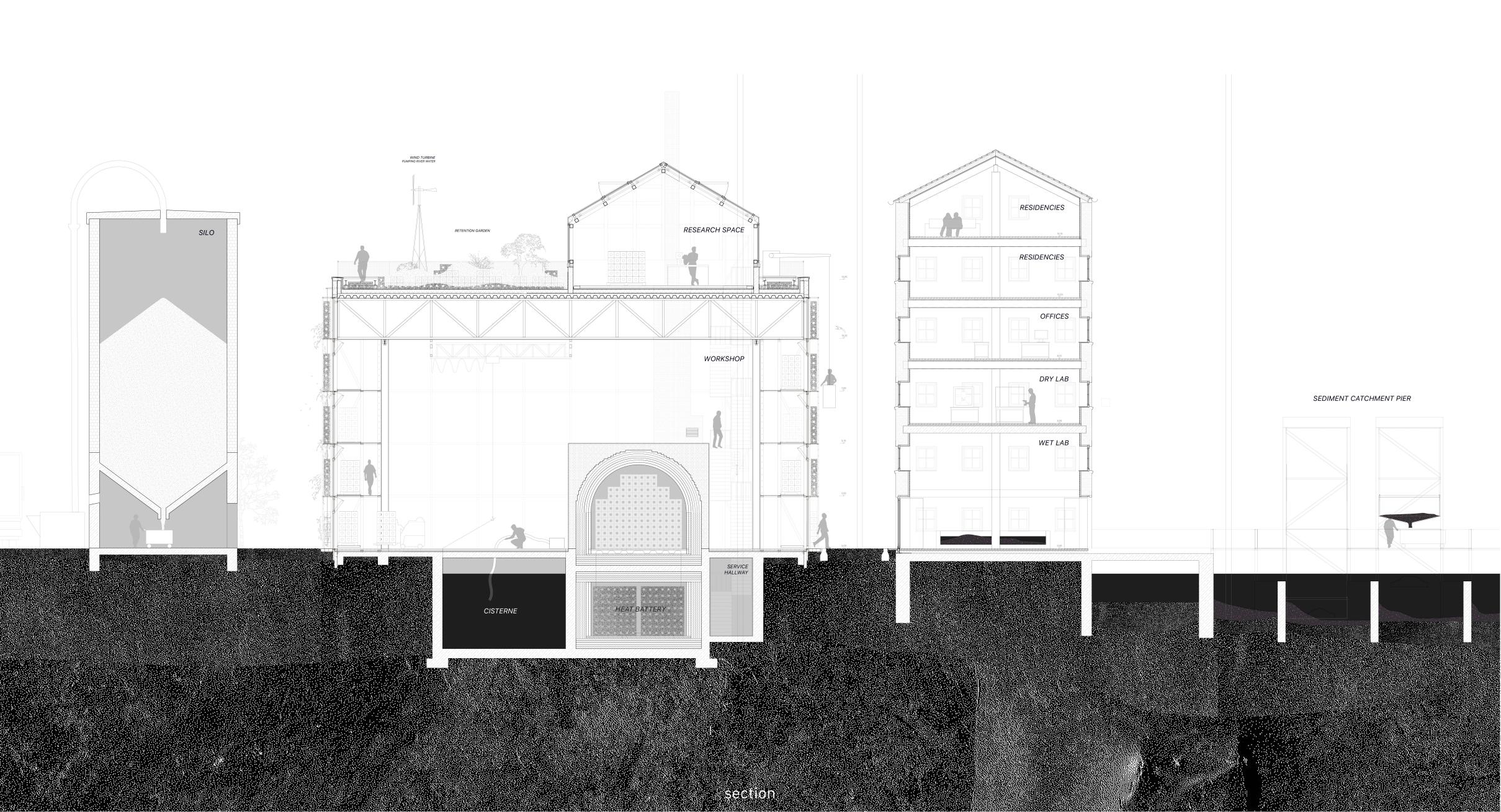
## RESPONSIVE PRODUCTION

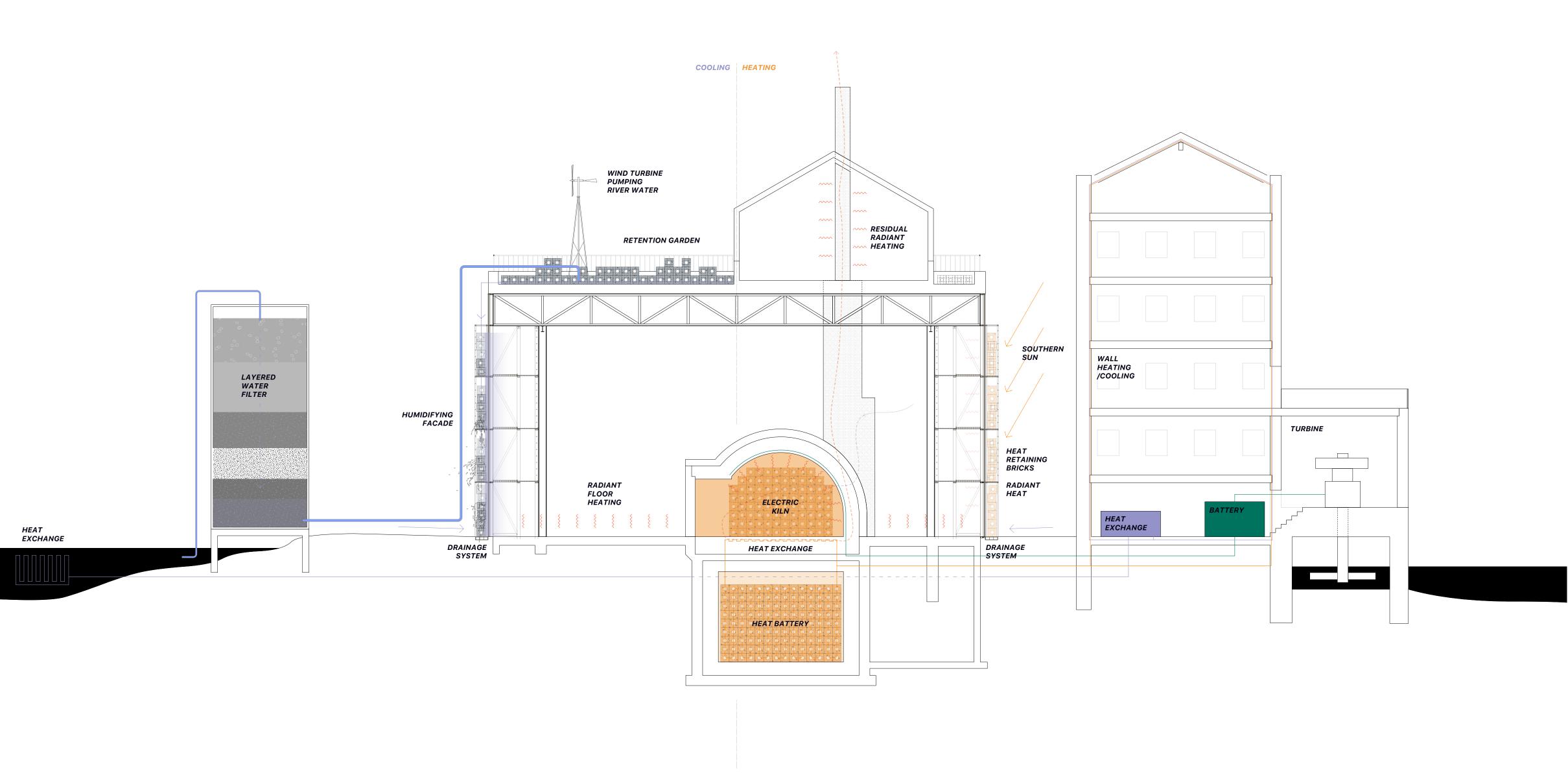


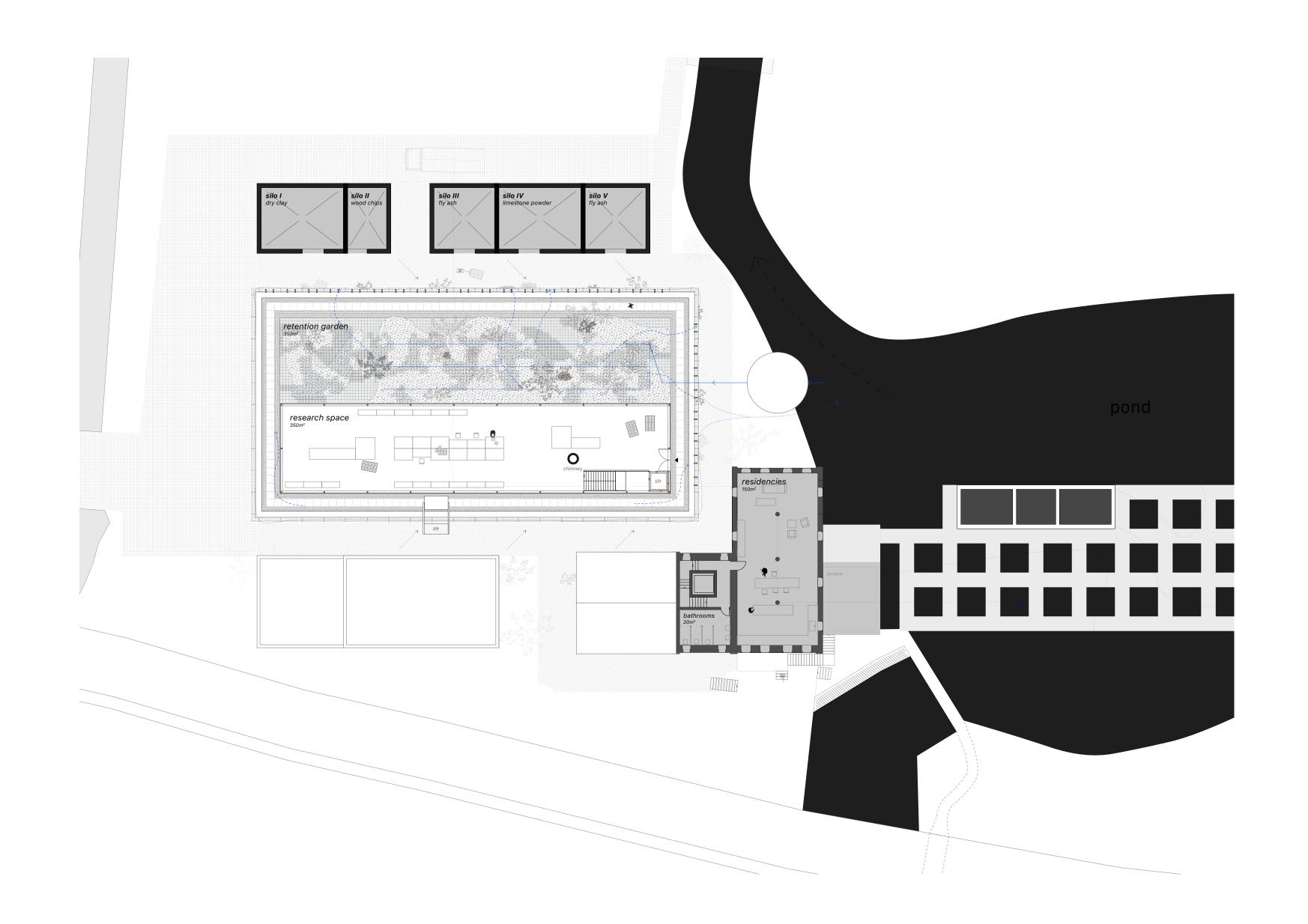




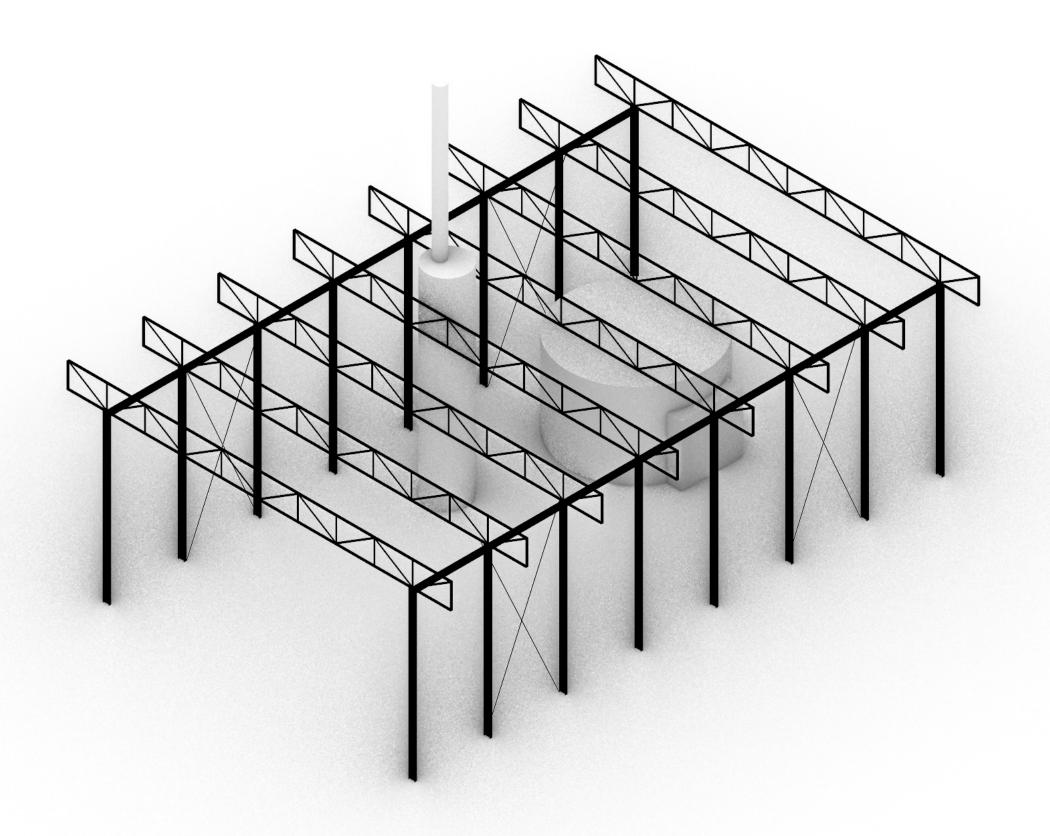


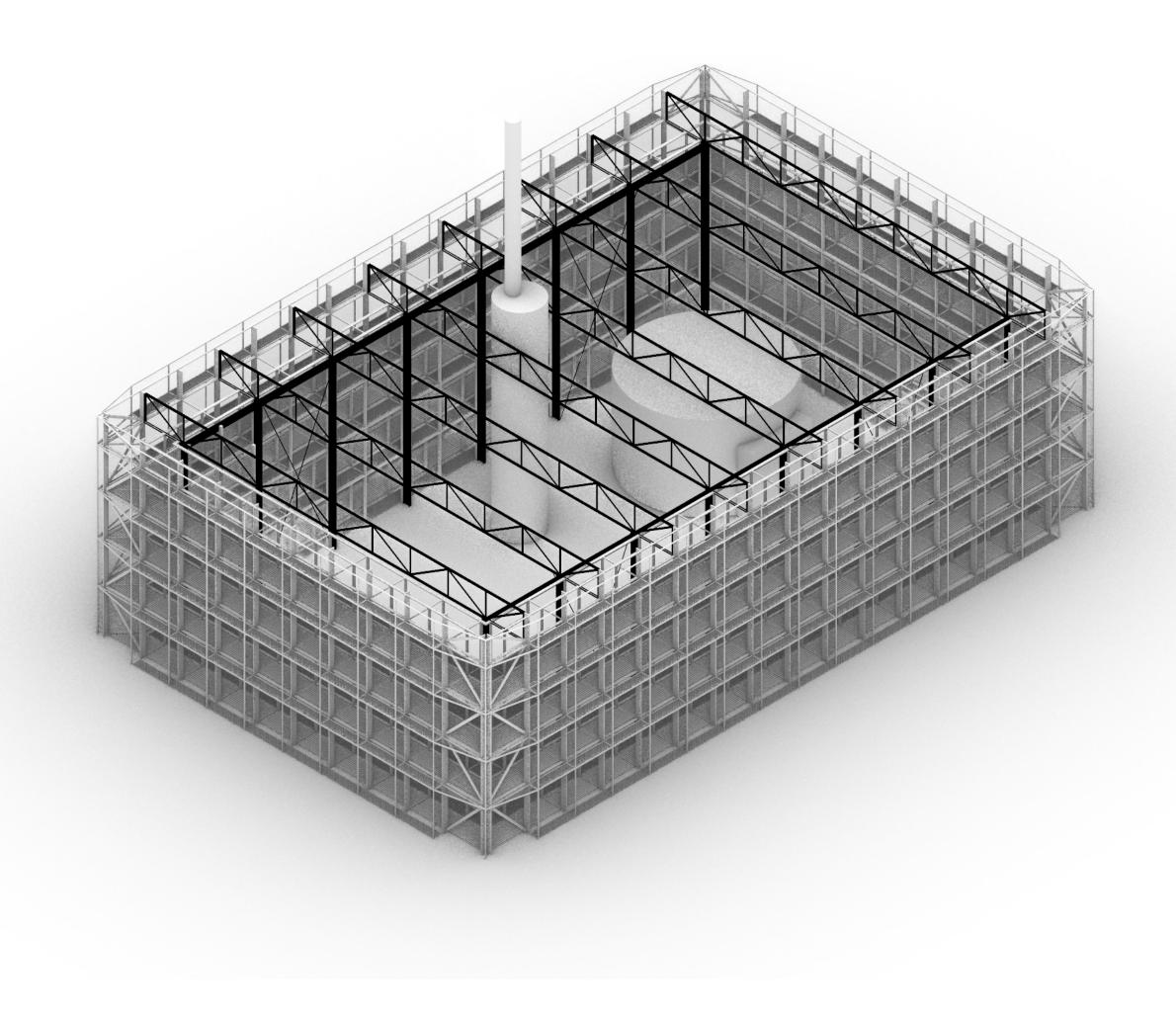


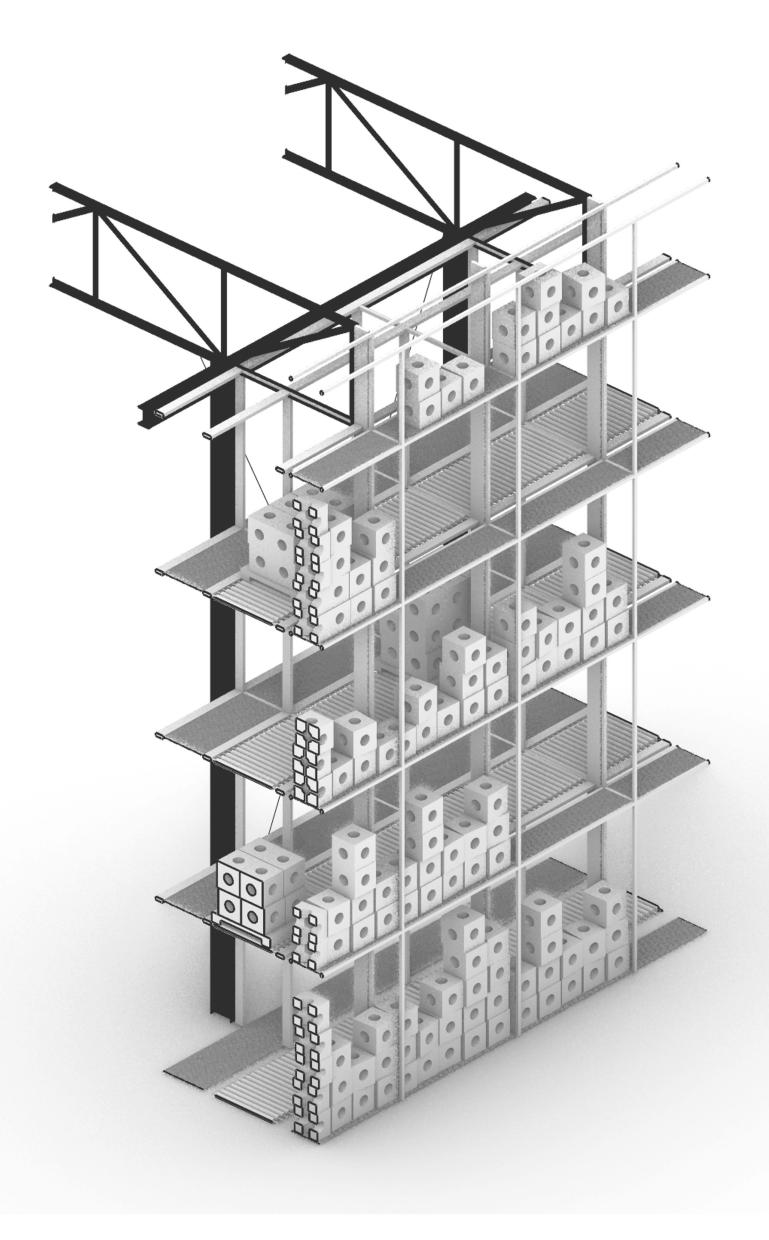




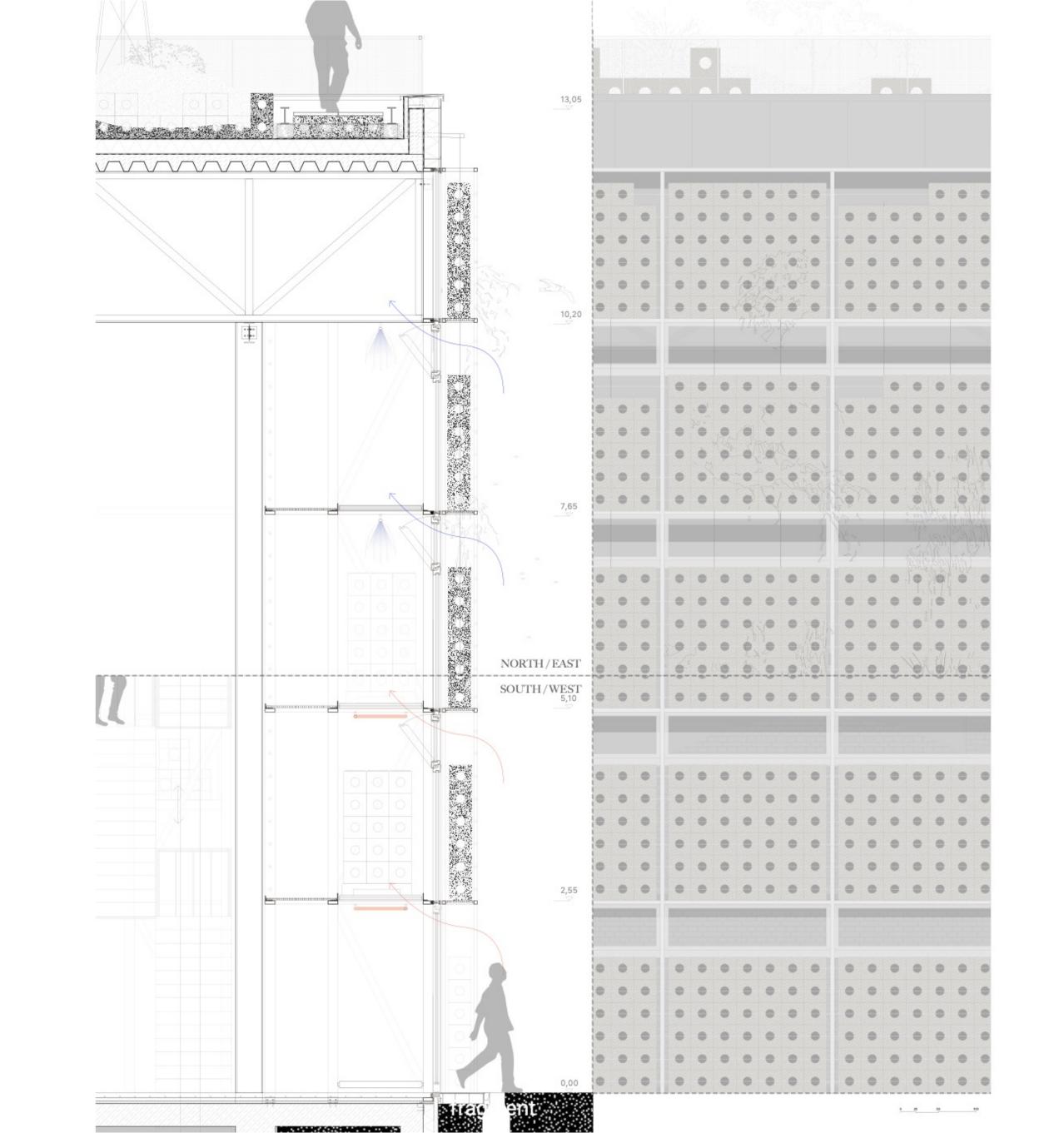
third floor

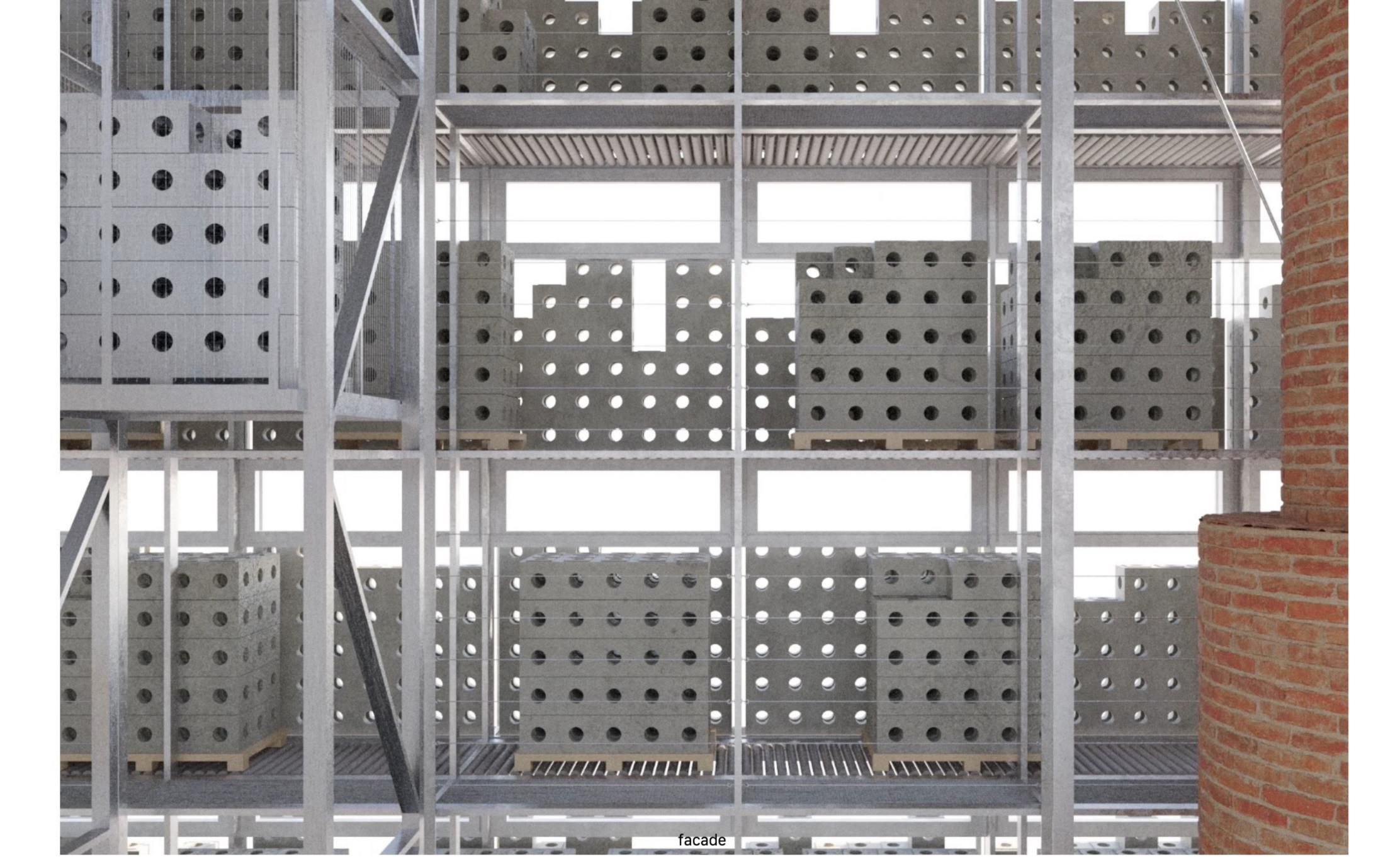


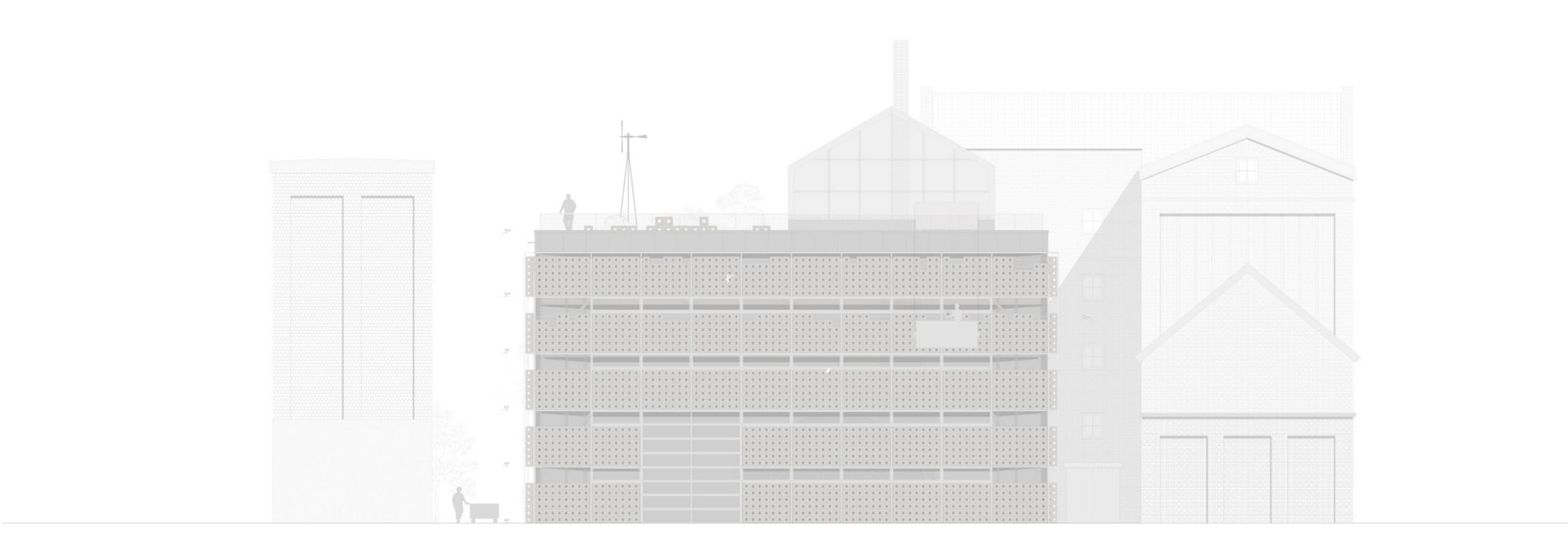




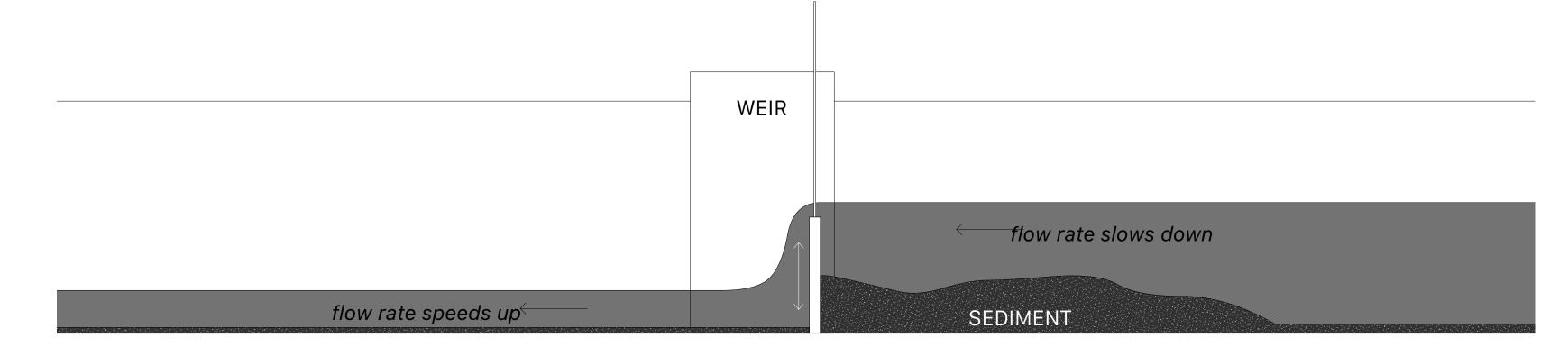
façade system

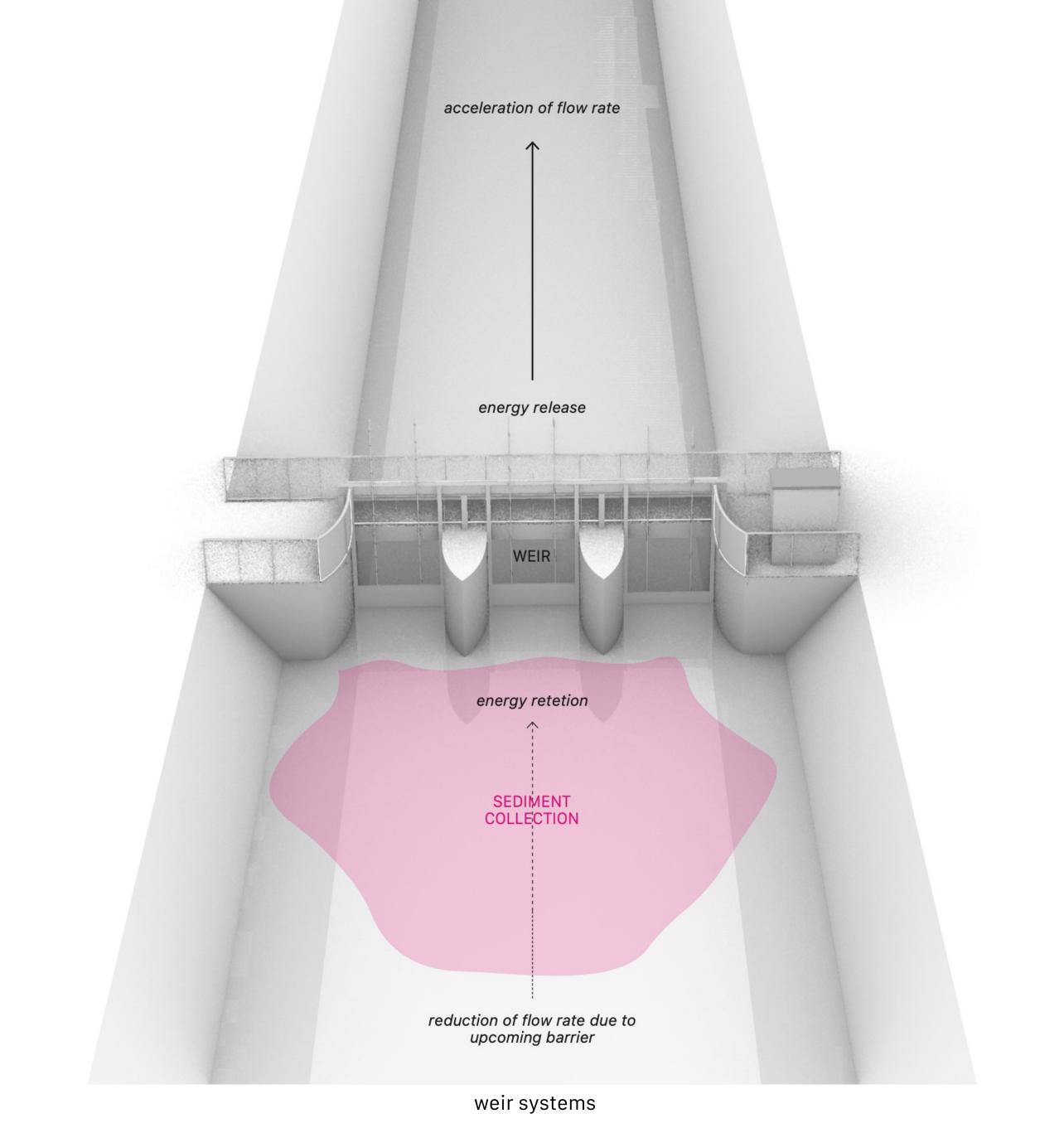




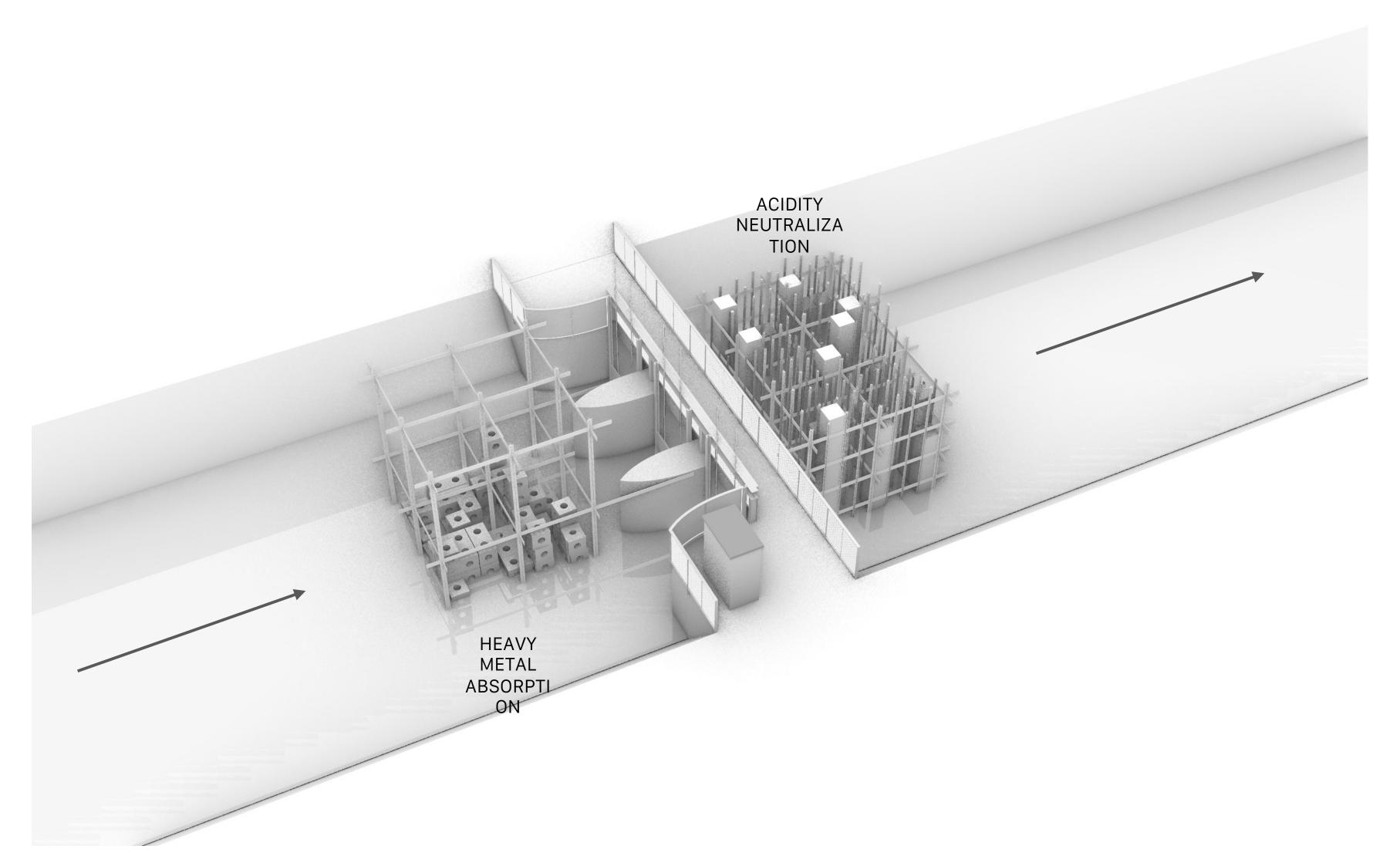


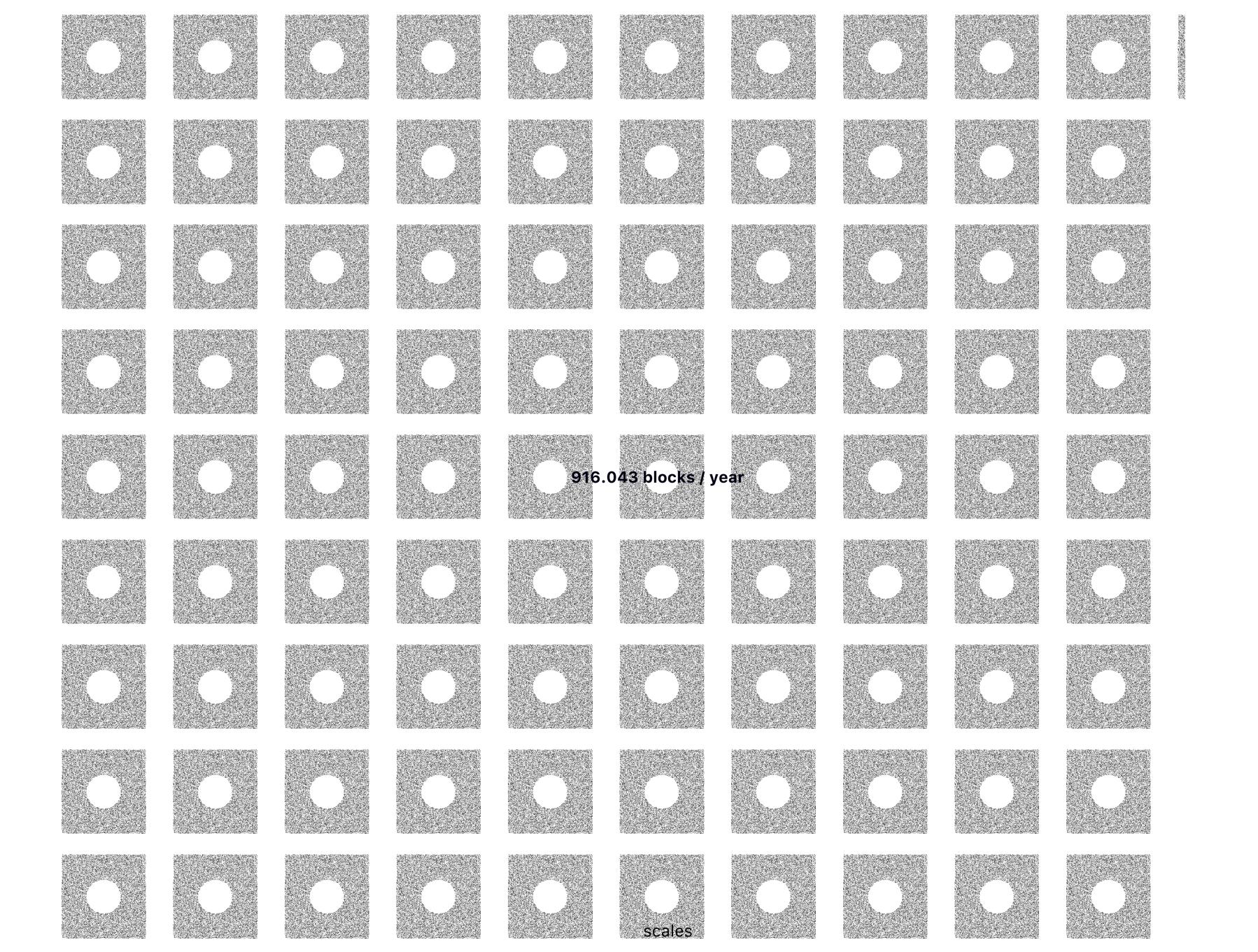


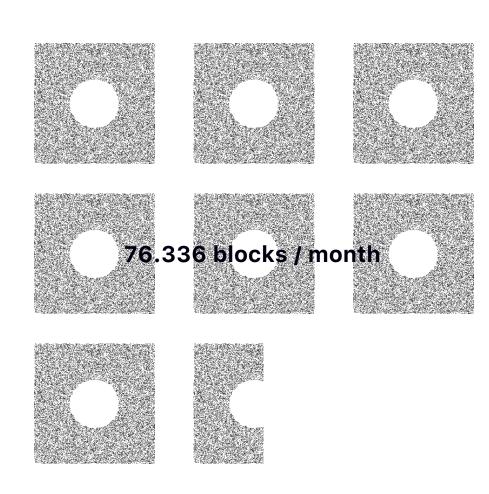


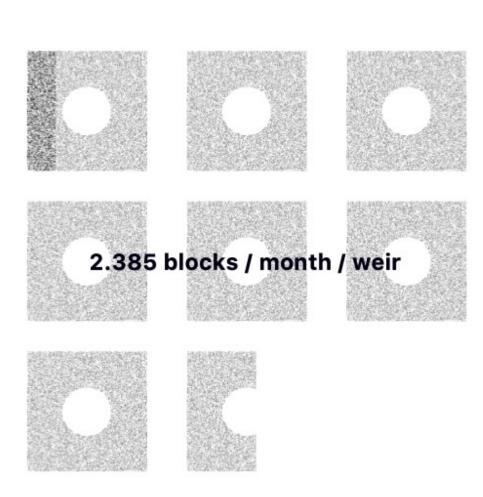


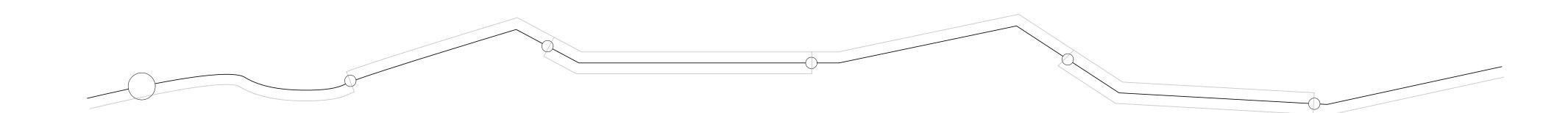


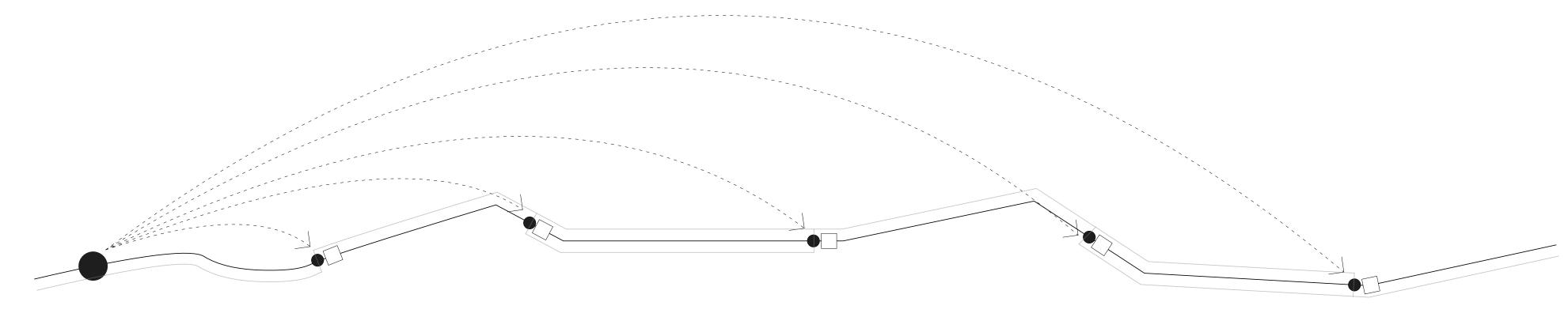




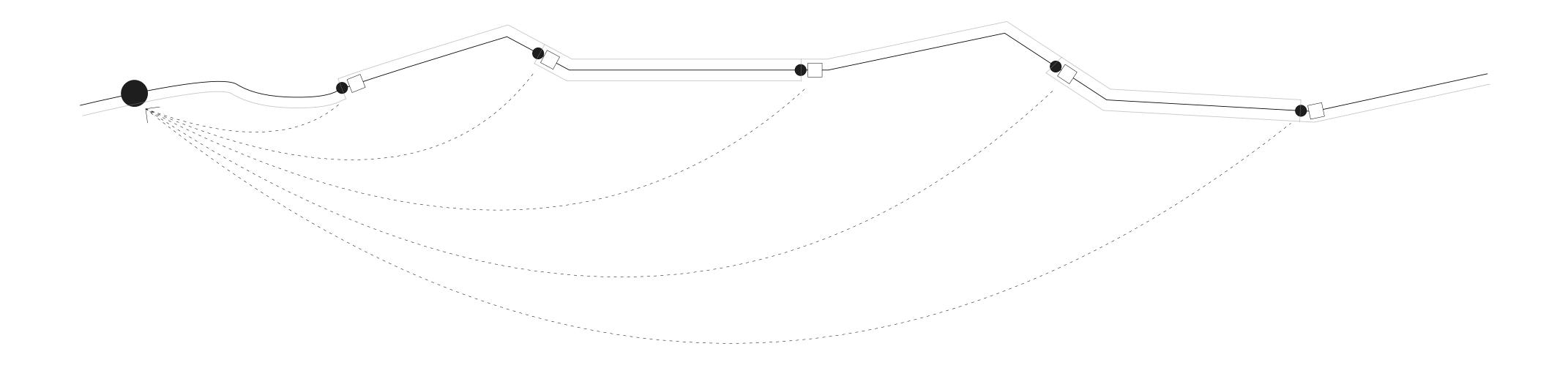








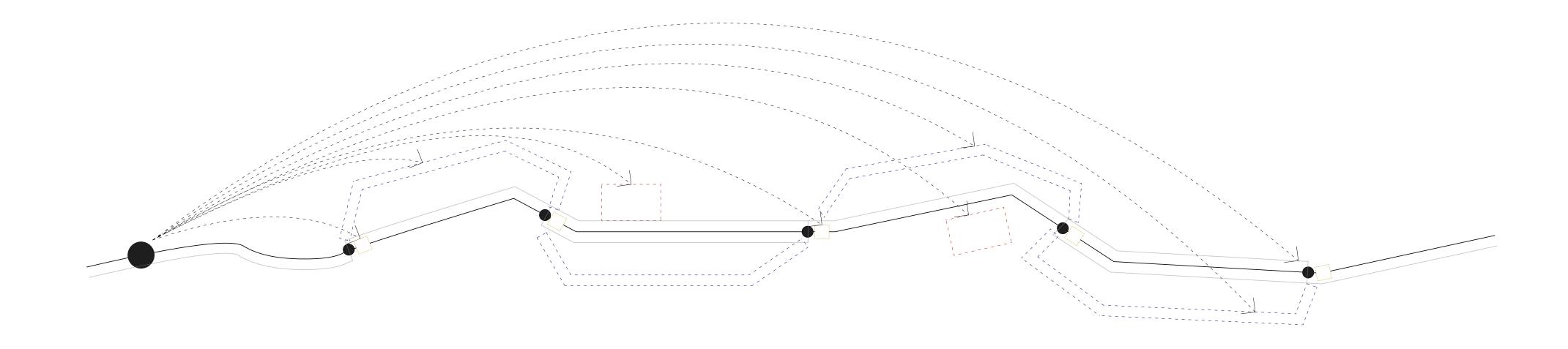
MONITORING LAB PRODUCTION

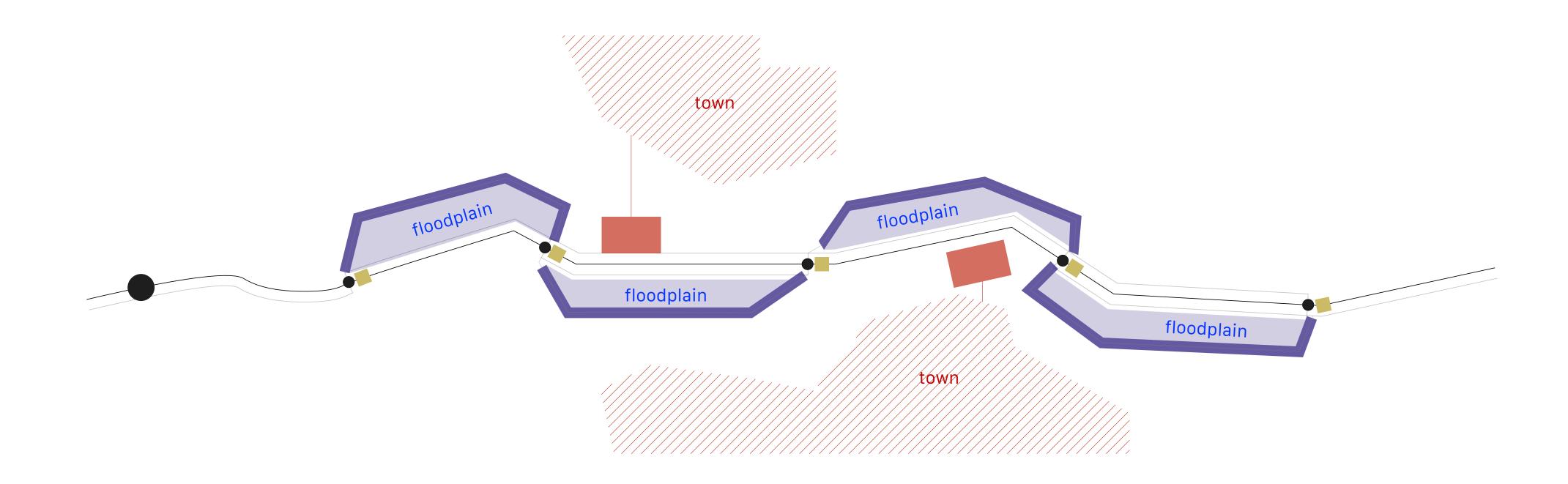


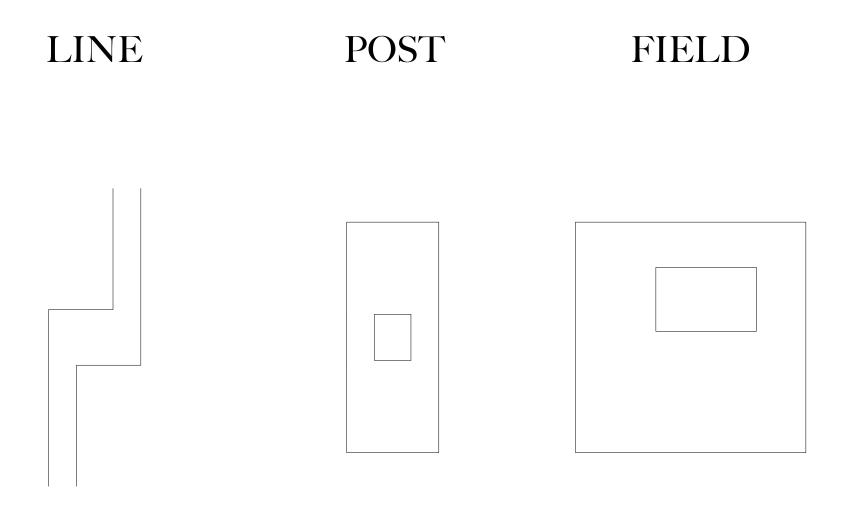
## 190 ground water testings / 32 surface water testings:

		Kippengrundw	asser	Oberflächenwasser
		(Min - Max)	(Mittel)	(Min - Max)
pH-value	[-]	3,5 - 7,4	5,8	2,4 - 6,0
Calcium	[mg/l]	35 - 906	543	323 - 680
Magnesium	[mg/l]	39,9 - 296	144	76 - 160
Iron	[mg/l]	5,9 - 2260	588	17 - 1182
Sulfate	[mg/l]	700 - 5842	2809	1090 - 6590
Nickel	[mg/l]	0,005 - 14,0	2,15	0,107 - 3,88
Zinc	[mg/l]	0,02 - 33,1	4,65	0,090 - 6,39
Cobalt	[mg/l]	0,002 - 3,1	0,71	0,051 - 2,77
Arsenic	[mg/l]	<0,005 - 3,15	0,44	<0,005 - 0,14

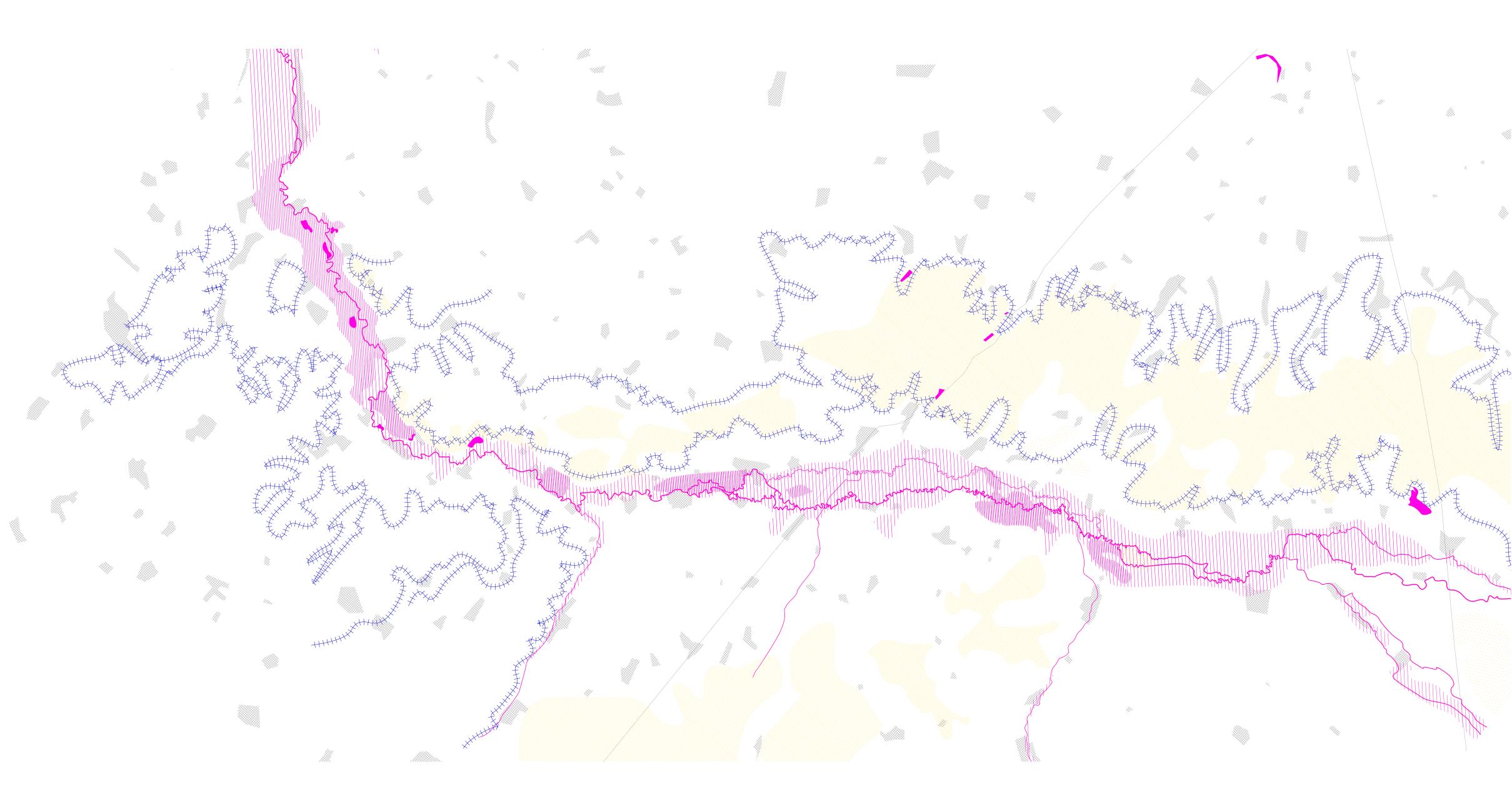


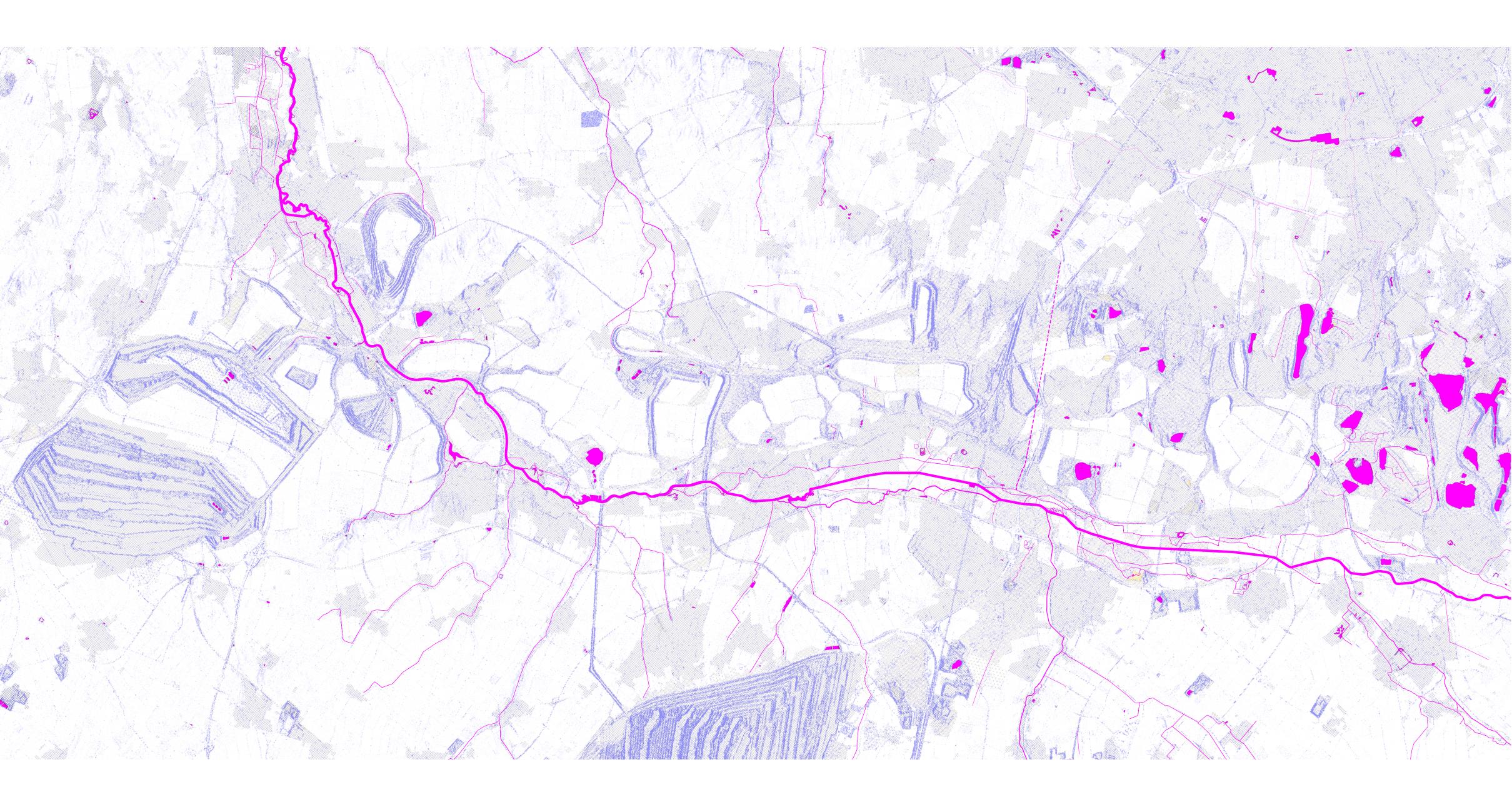






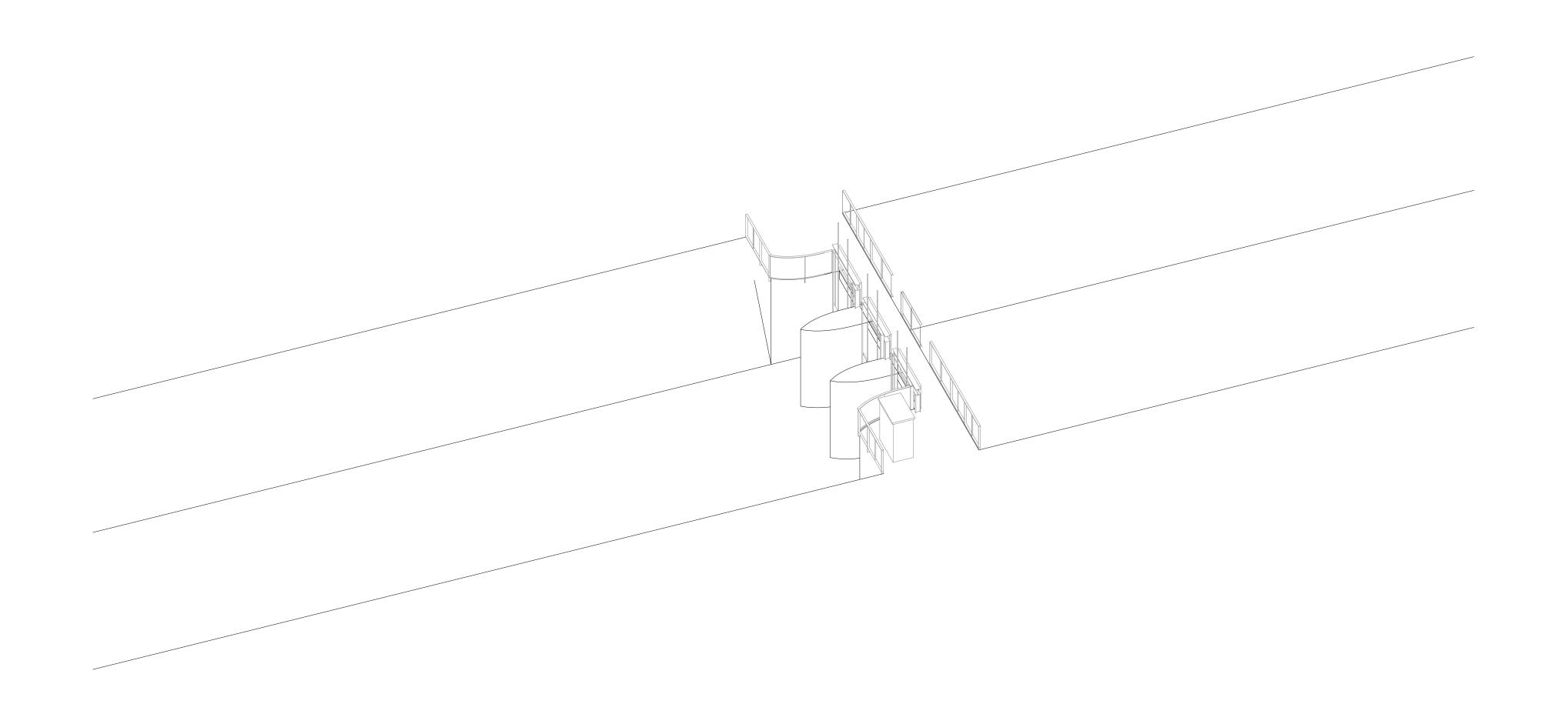


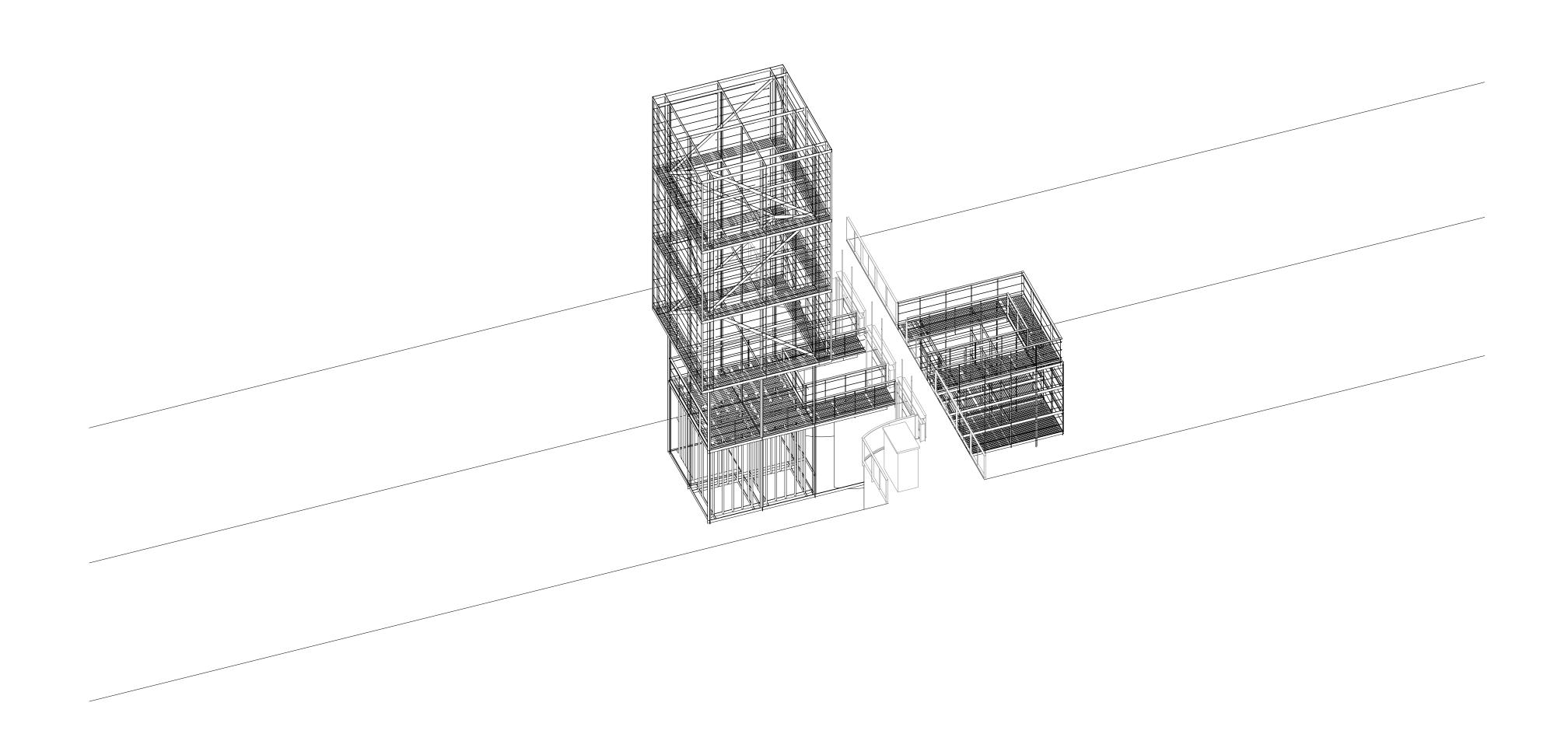


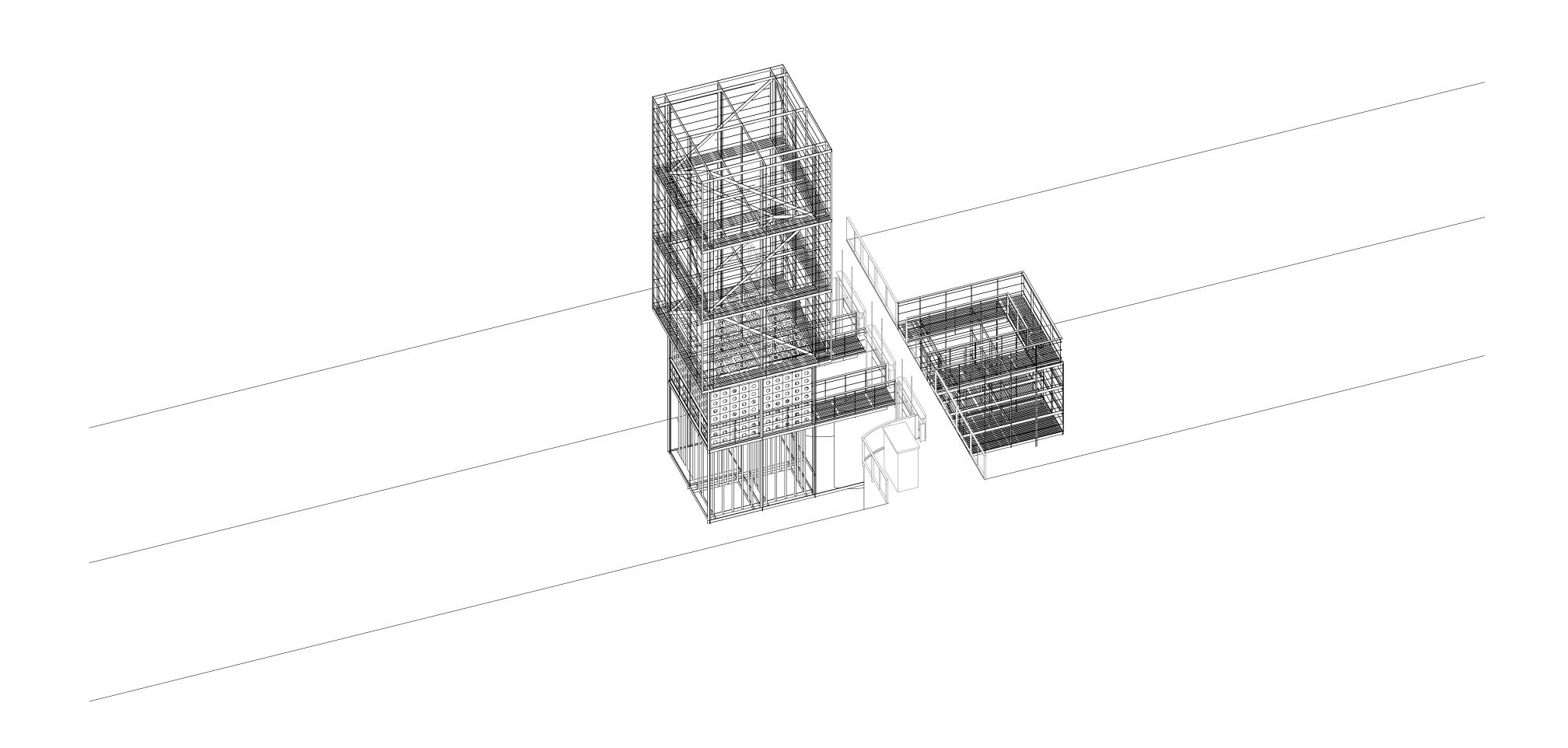


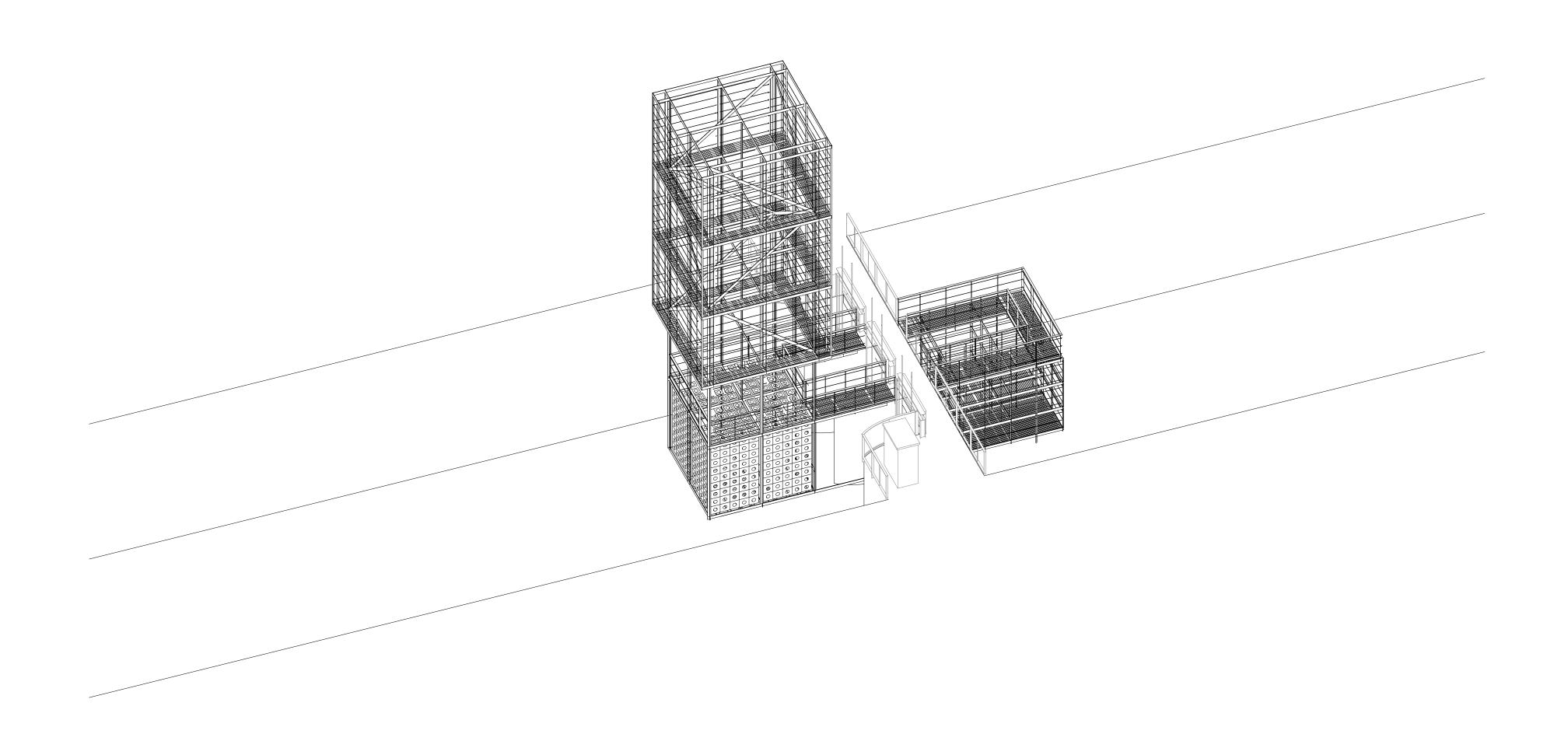


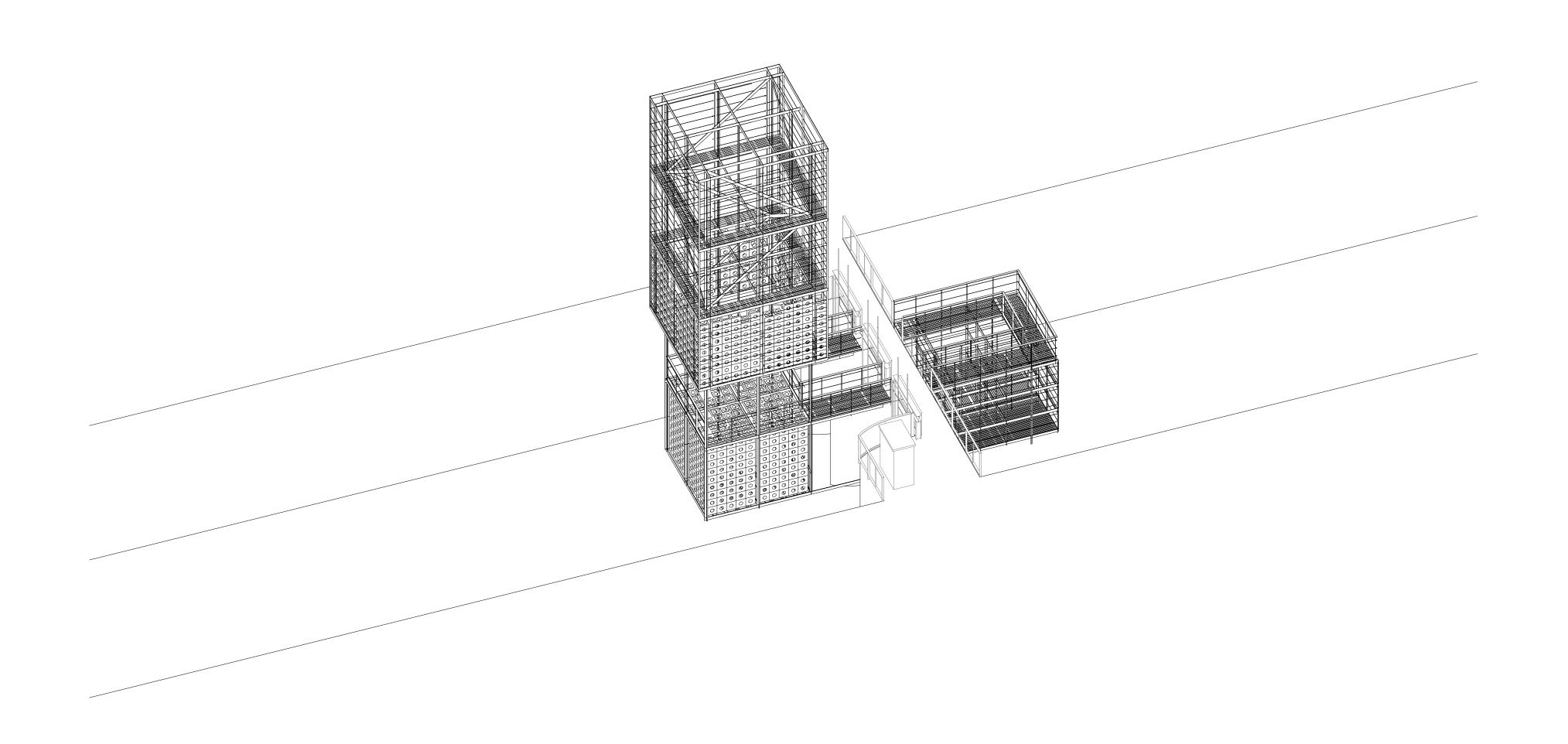
intervention 1

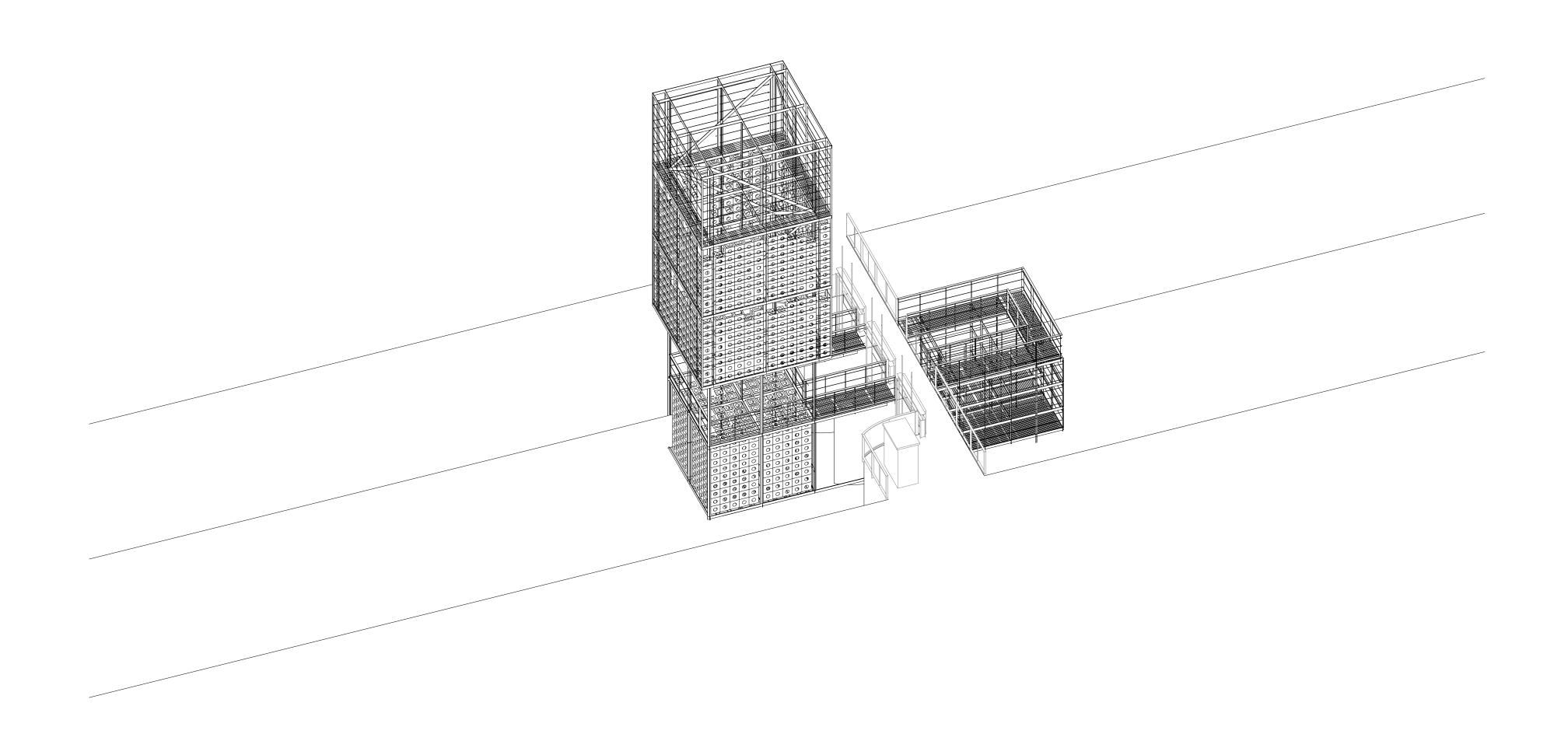


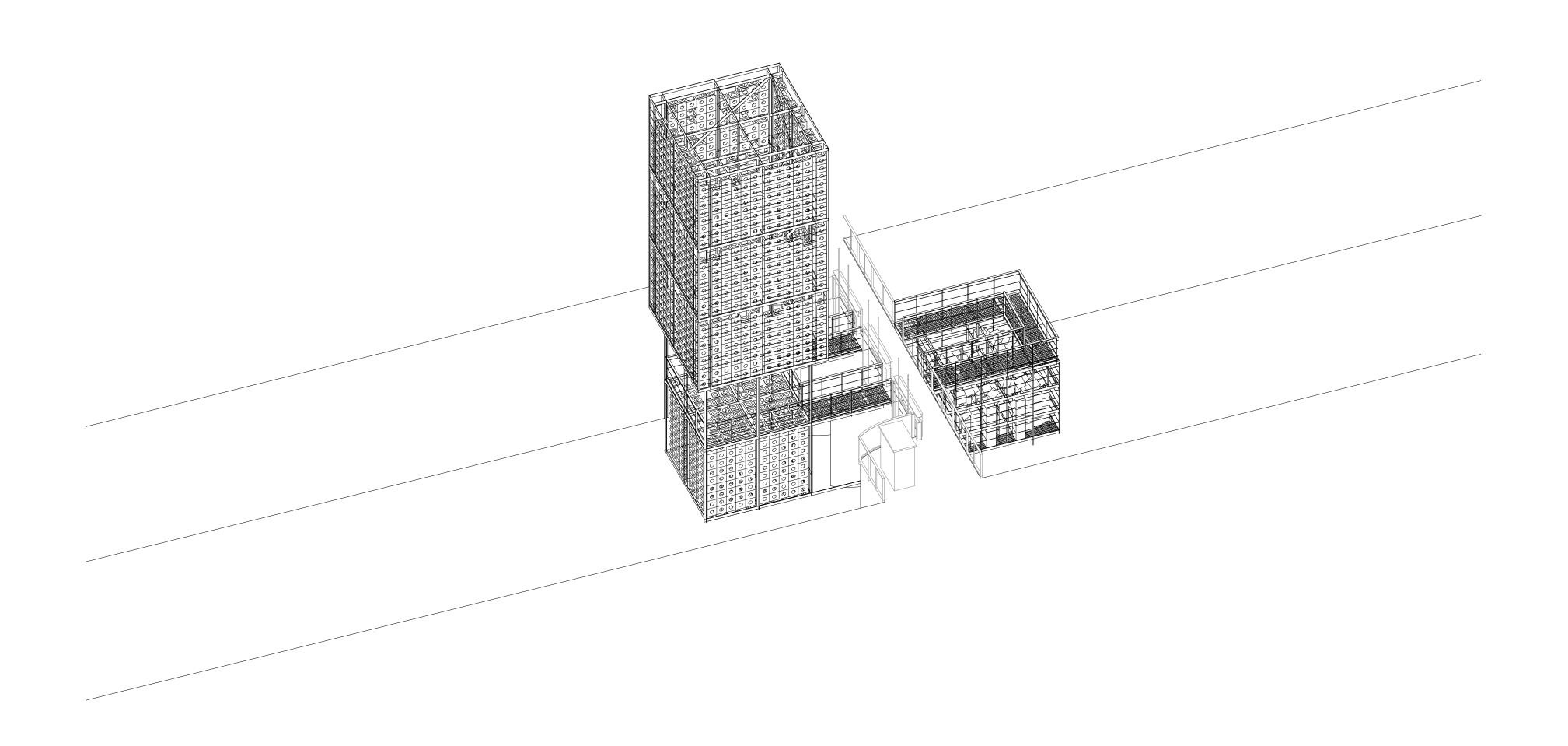


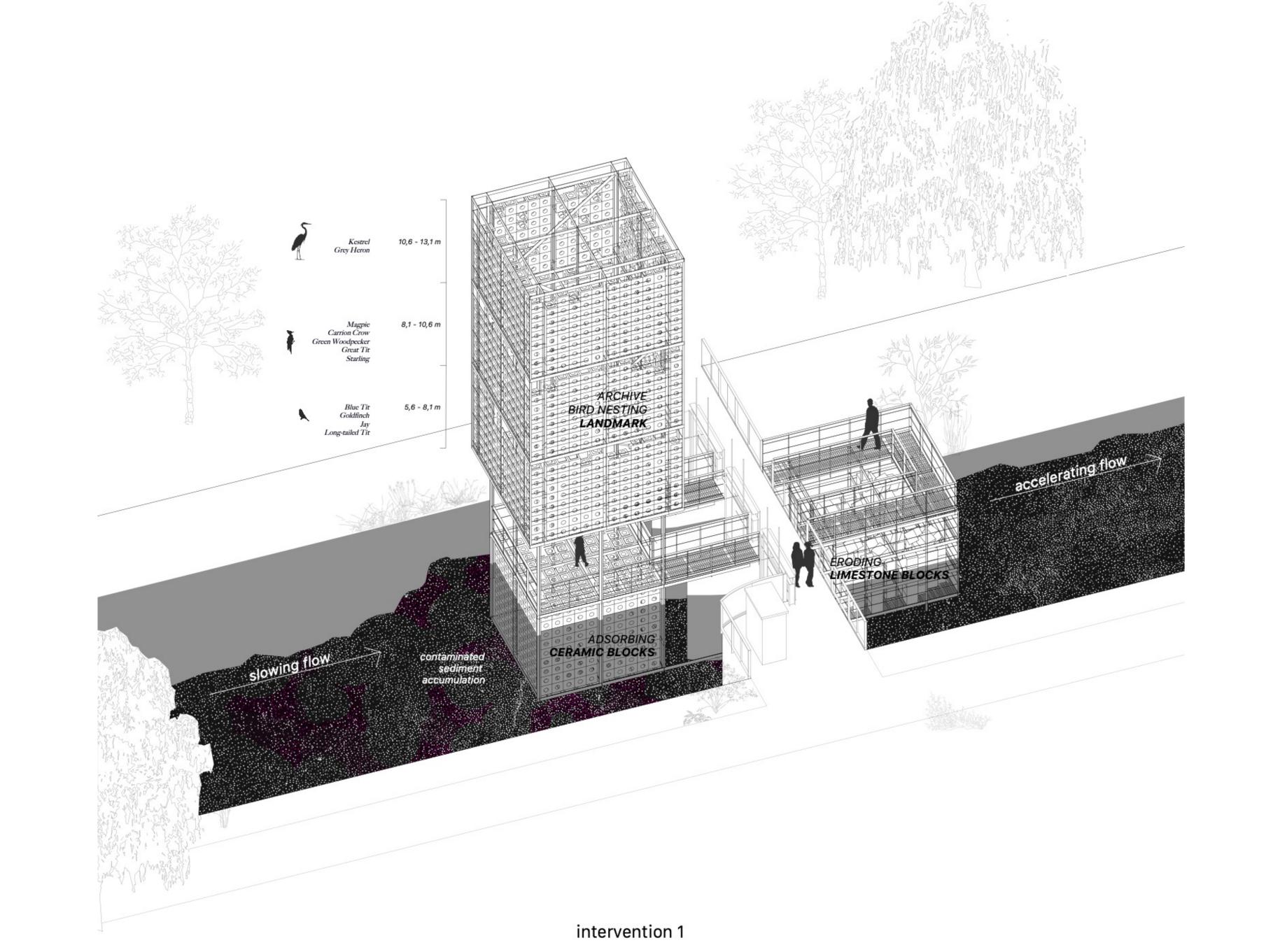






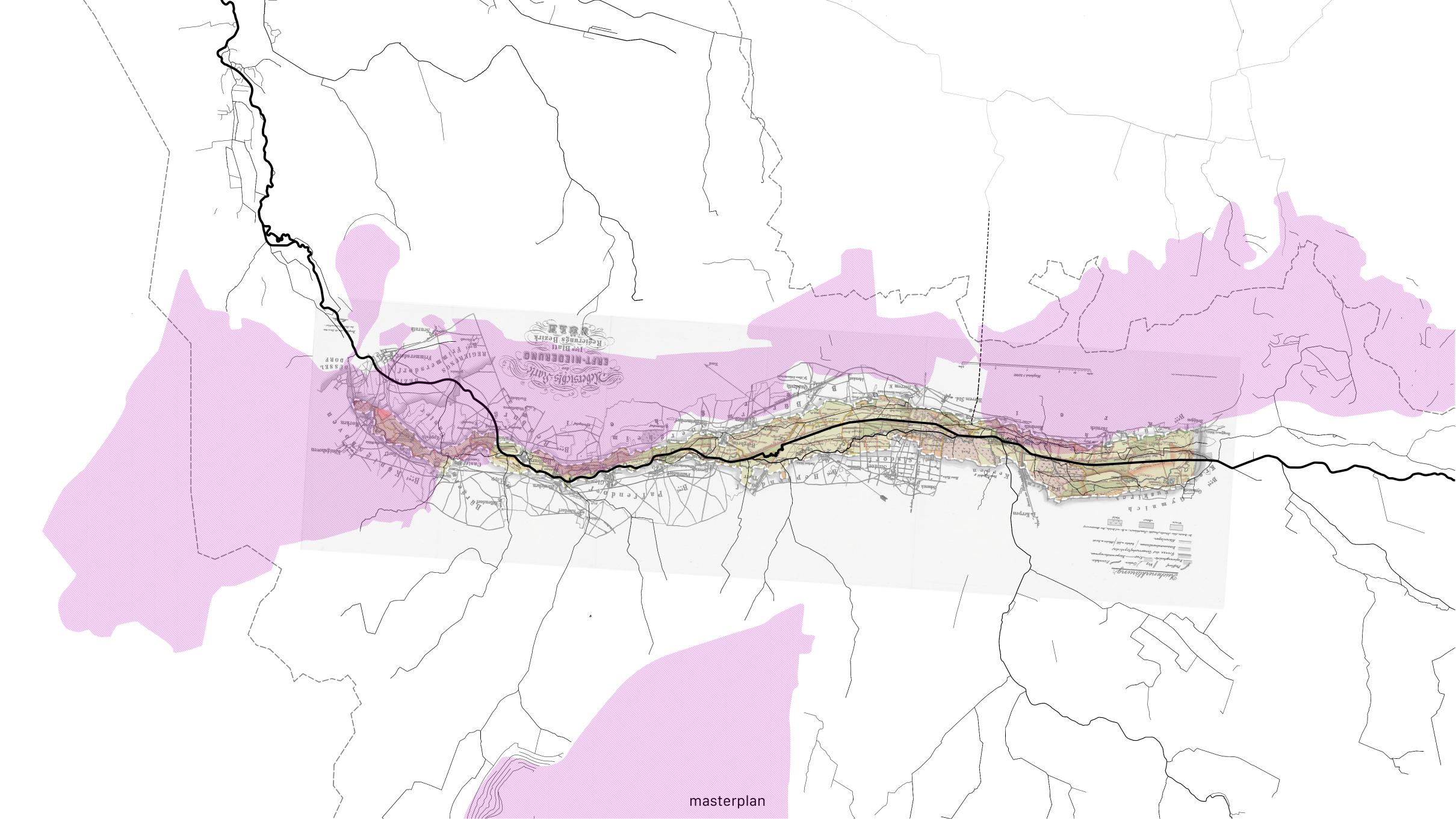


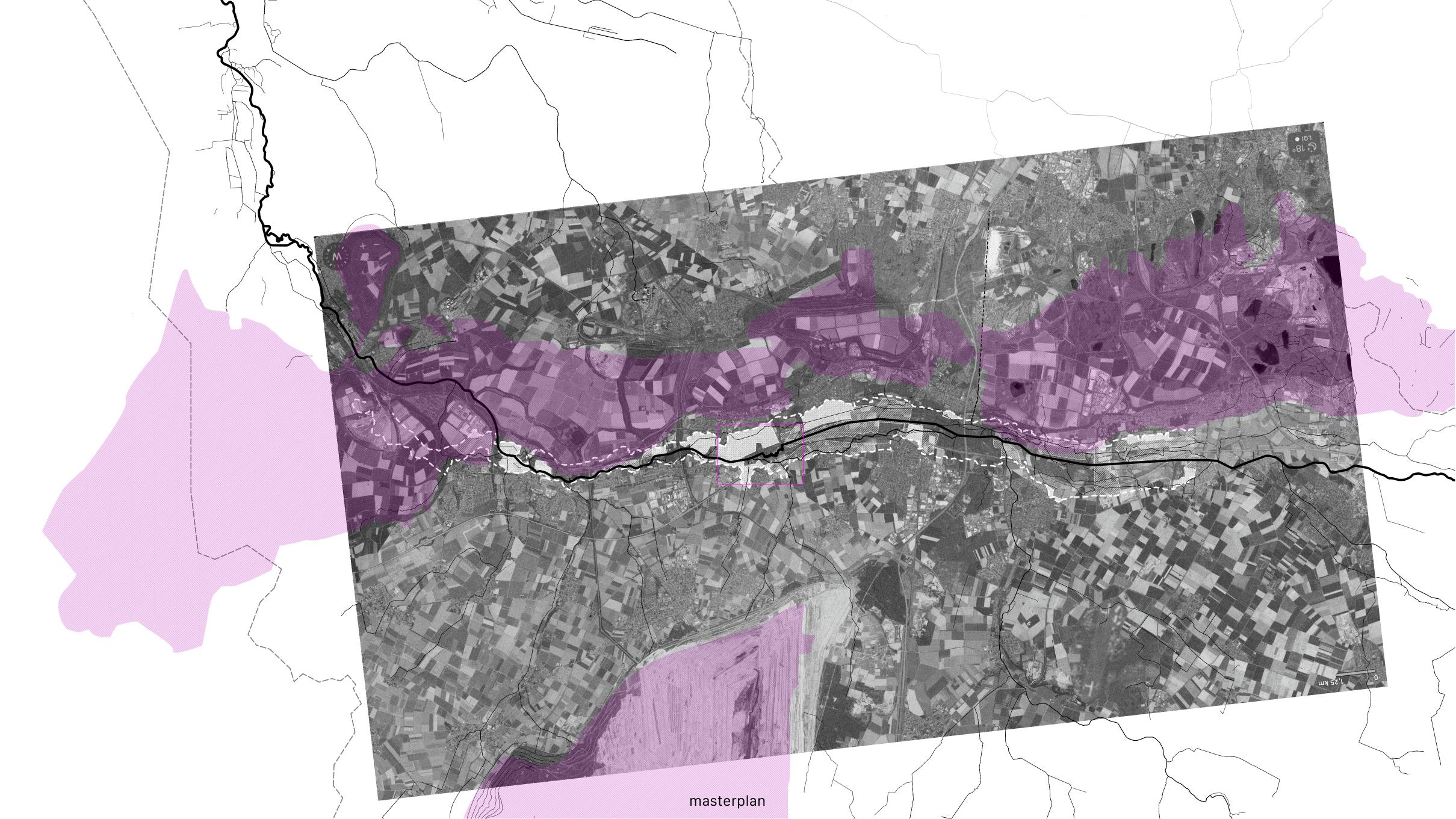




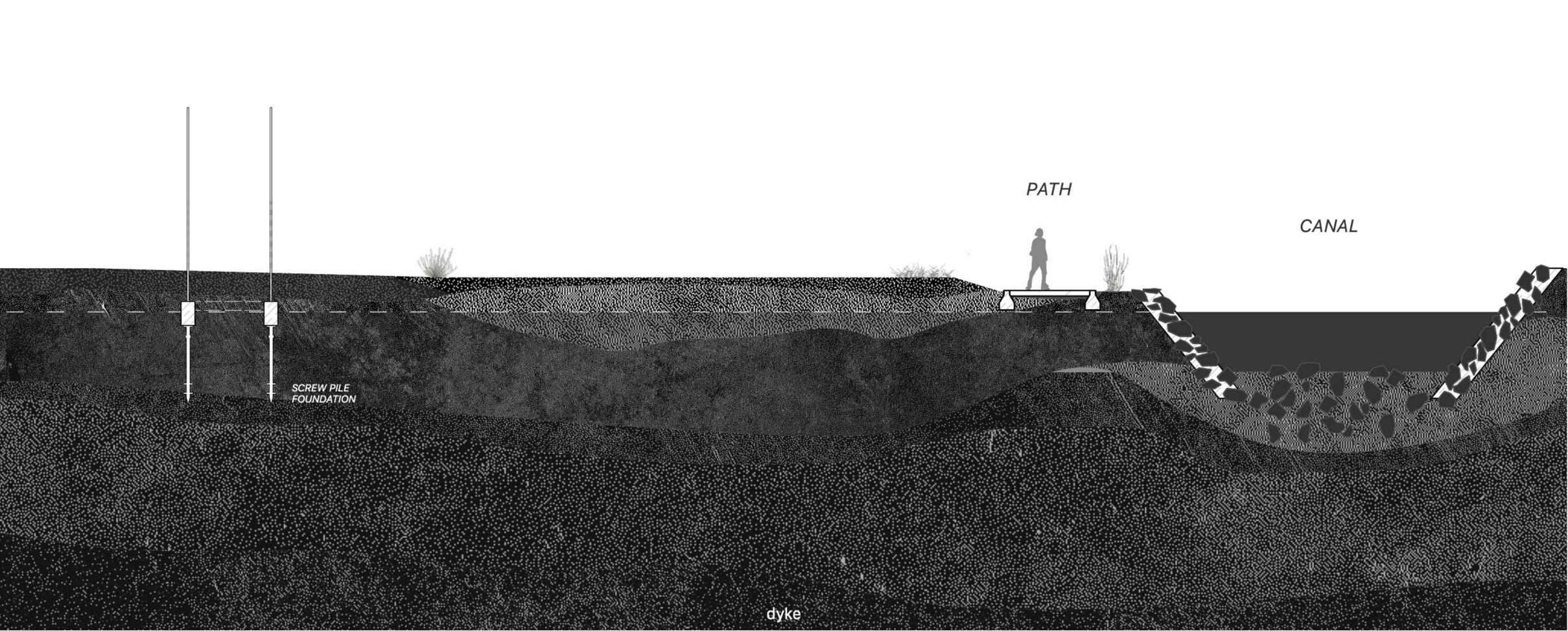


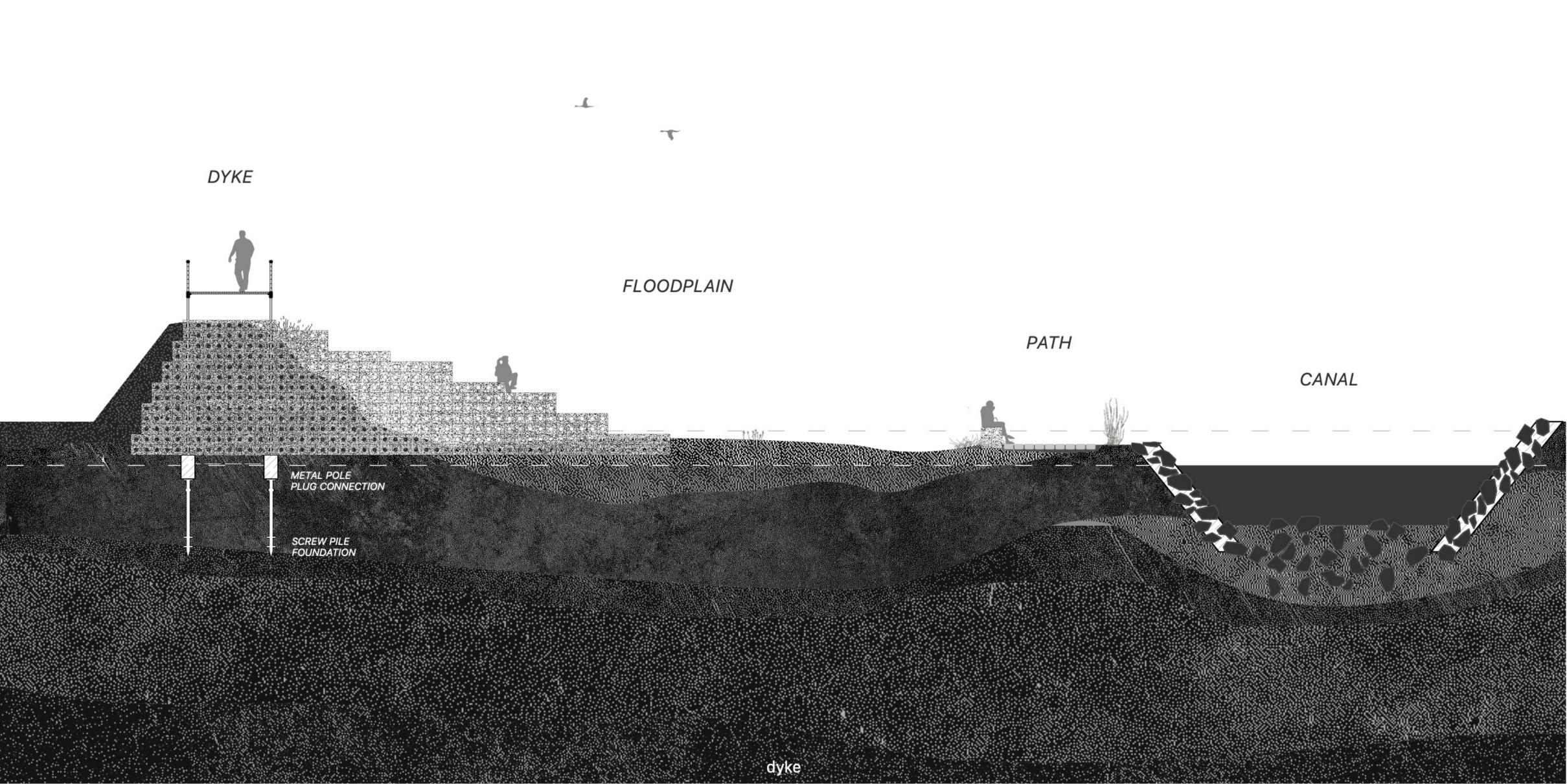
intervention 2



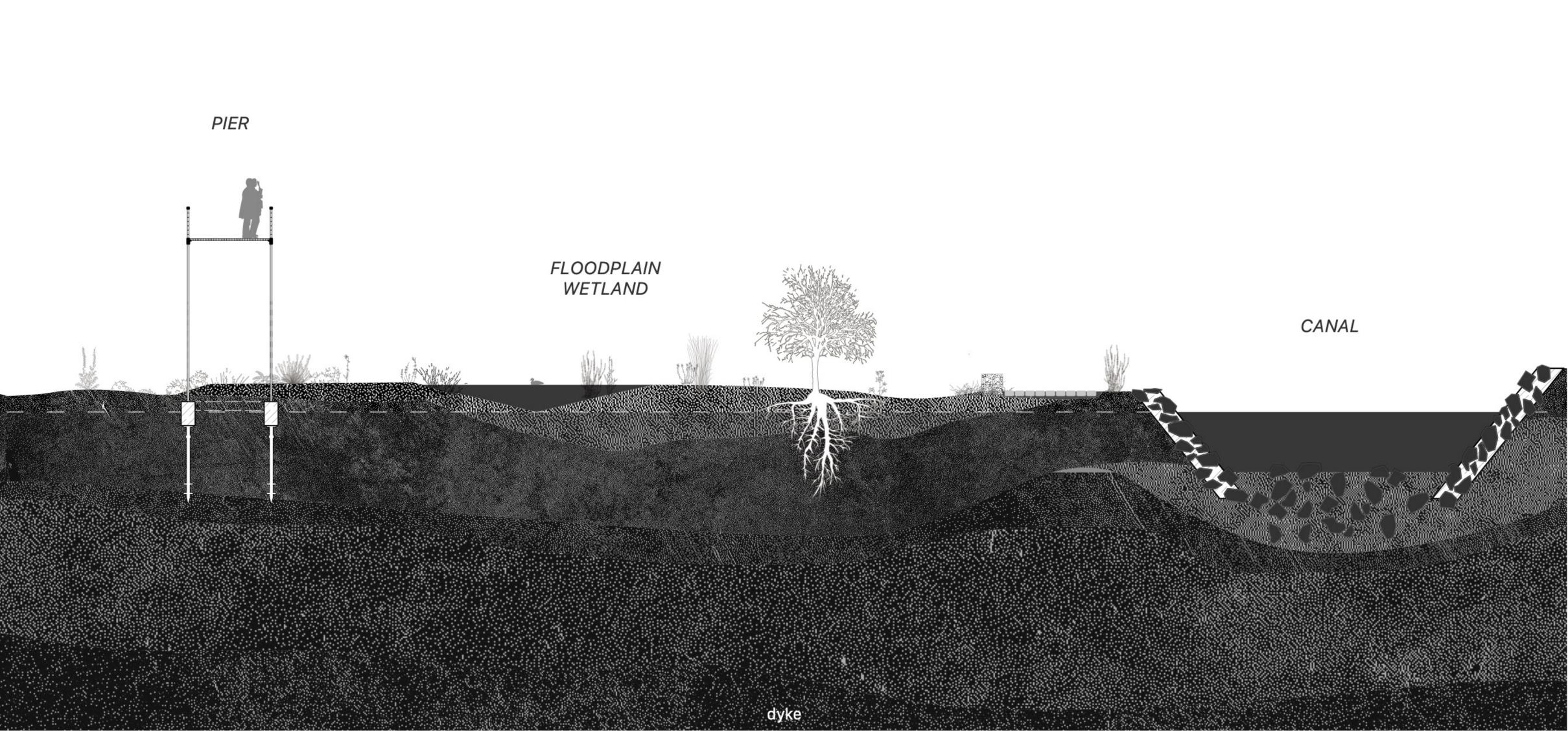








## PIER ALTERNATIVE WALKING PATH SEASONAL FLOODING EROSION CANAL dyke

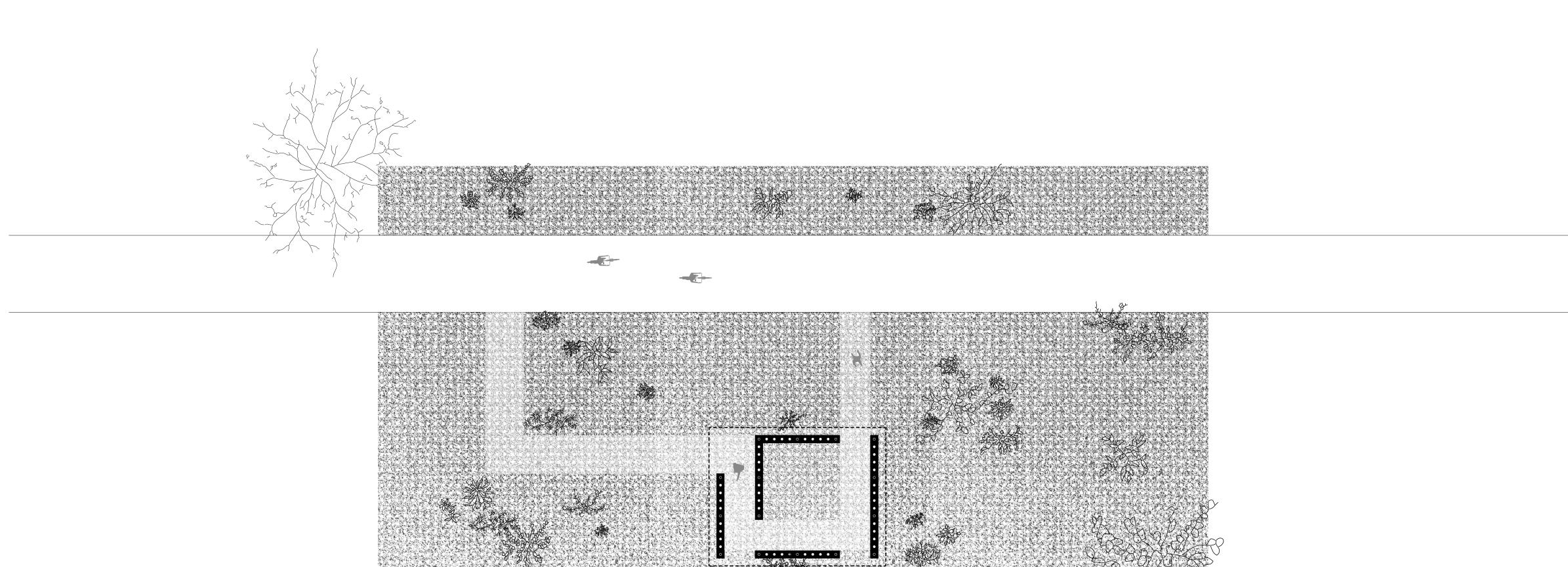


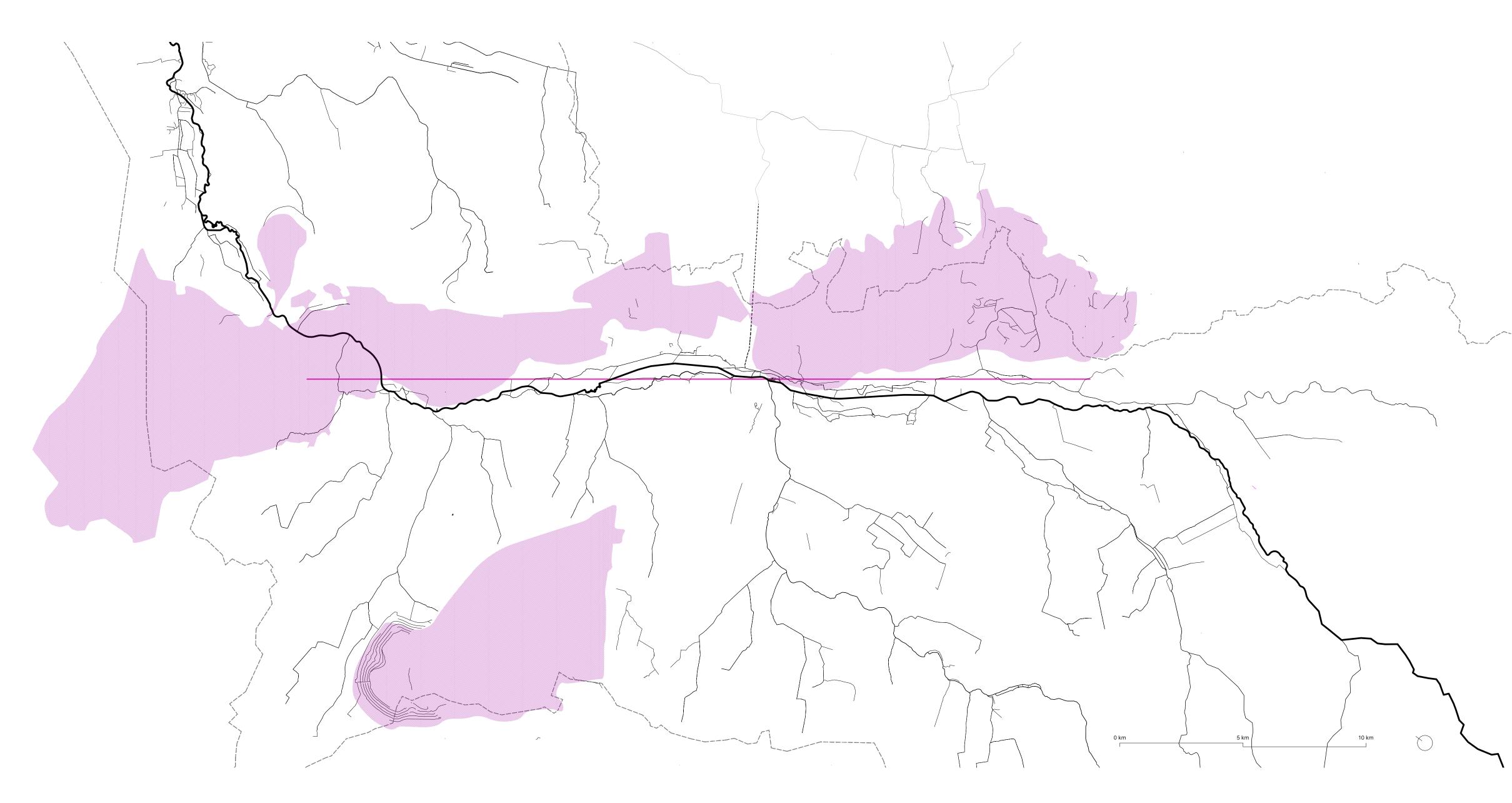


intervention 3

## **FIELD**

## **NESTING PAVILION PATH POLLINATION FIELD** GROUNDWATER TABLE TOWNS INDUSTRY DISTRICT HEAT BATTERY WIND / SOLAR ENERGY SOURCE

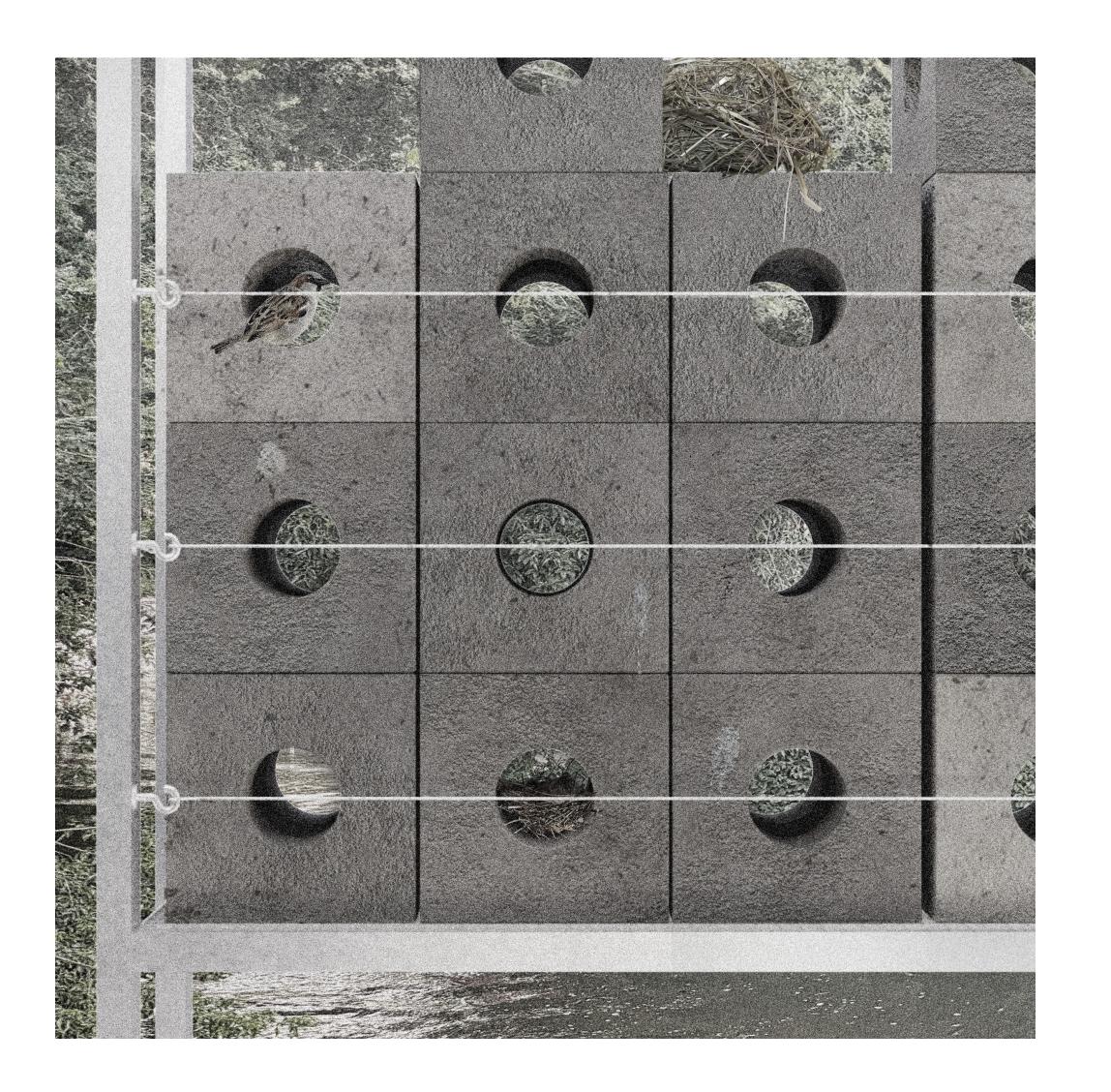




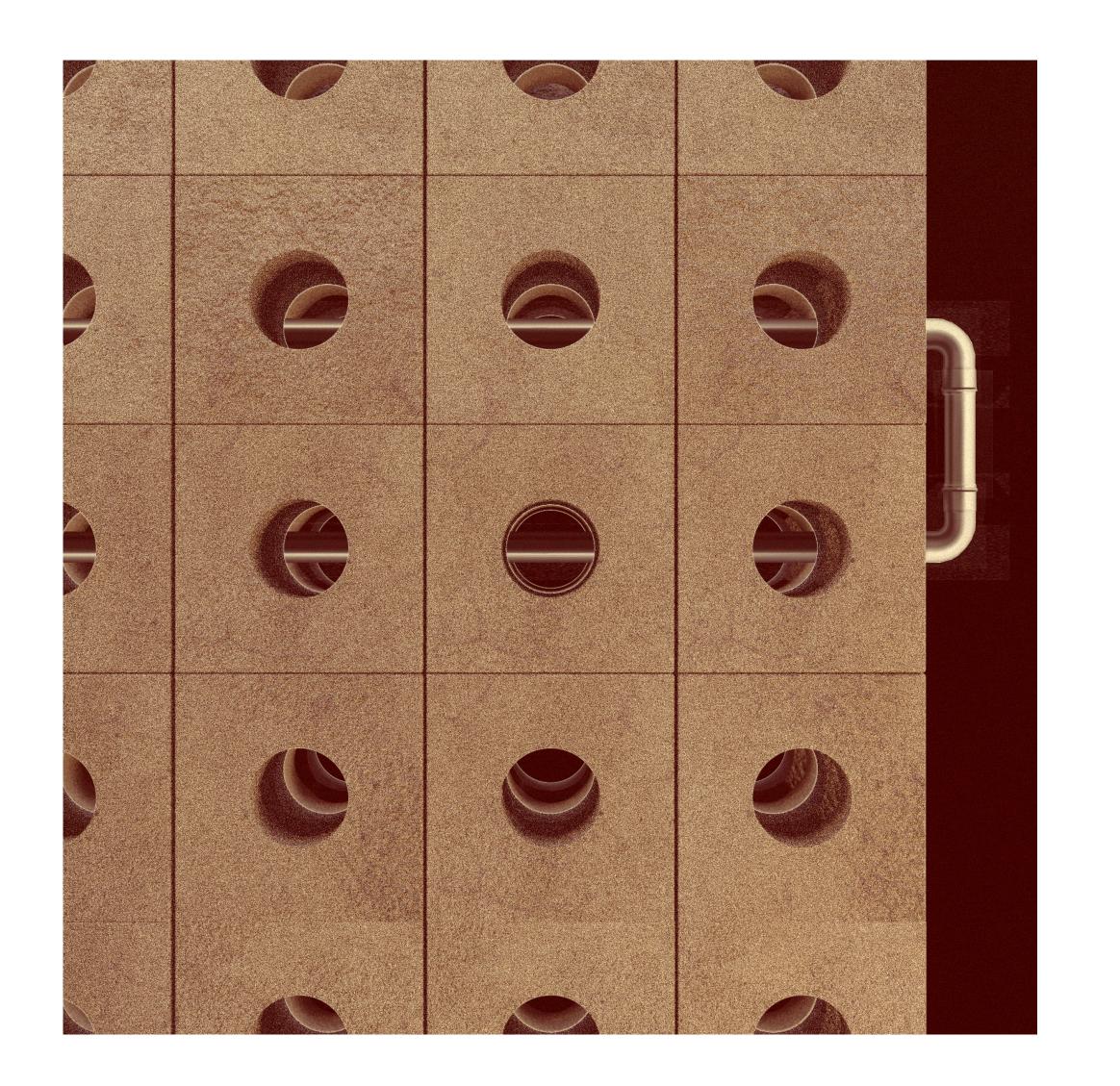
masterplan













thank you!

