# A LANDSCAPE POEM

BORDERS & TERRITORIES GRADUATION STUDIO

Kashgar Group

Qiaoyun Lu 5061415

### Research

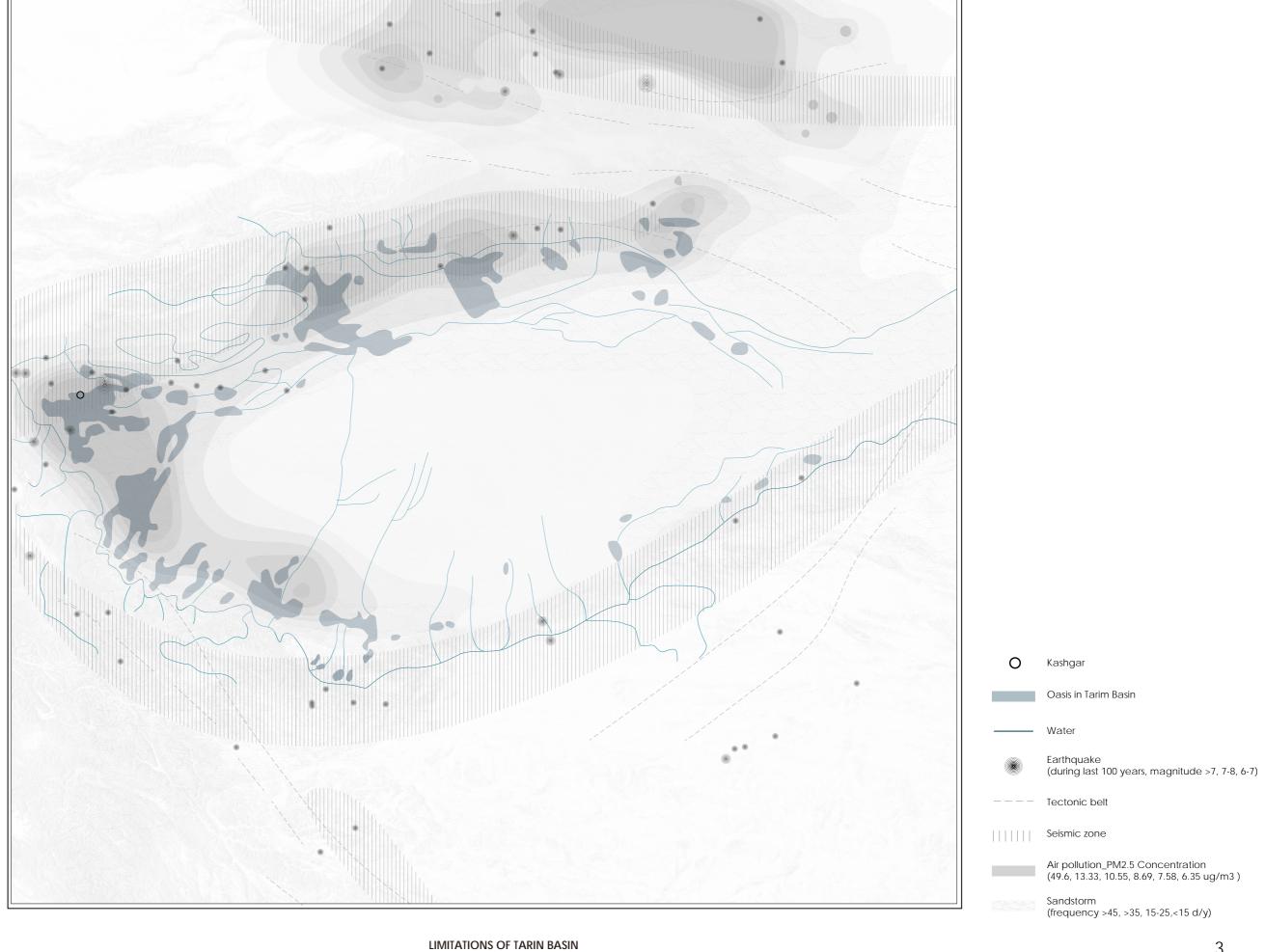
I. Geographical Context Natural Disasters in Tarim basin

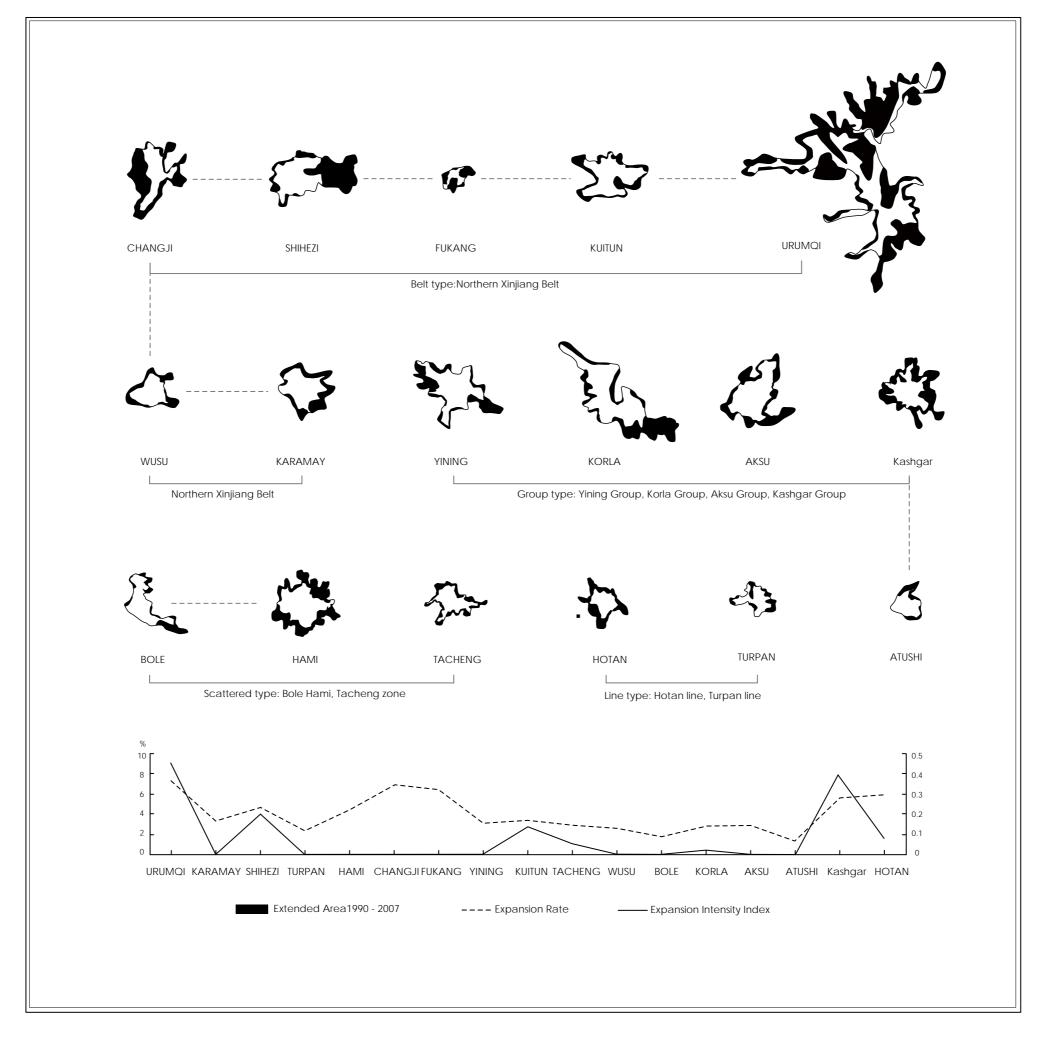
II. Artifact
Expansion of Oasis cites in Xinjiang

III. Systematic Context Water system in Kashgar

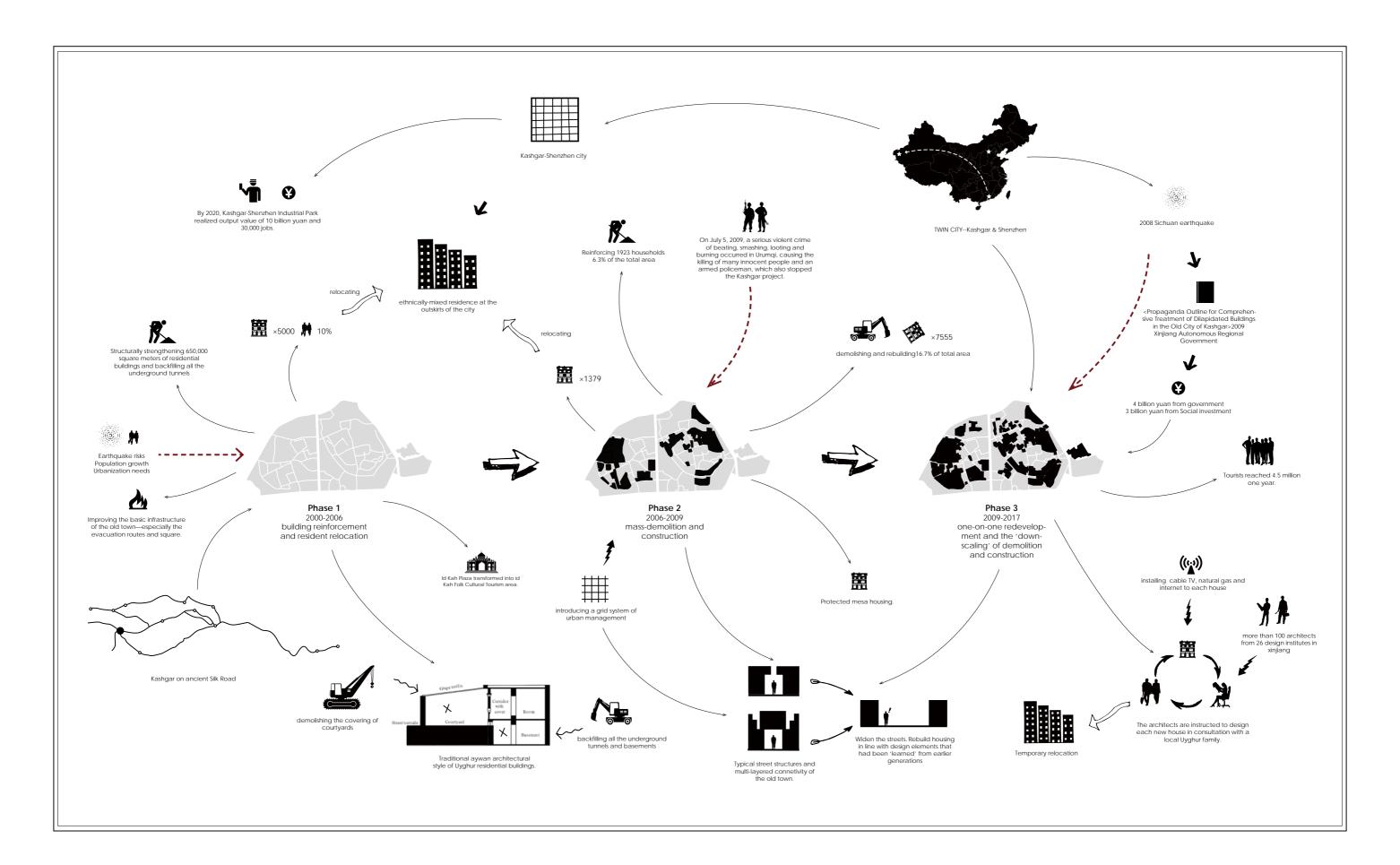
### **Project**

- I. Architecture makes landscape Sedimentation factory
- II. Landscape as infrastructure Flood gate & Swimming pool
- III. Landscape makes public life Floating wetland
- IV. Achitecture as a medium
  The Endless Stair

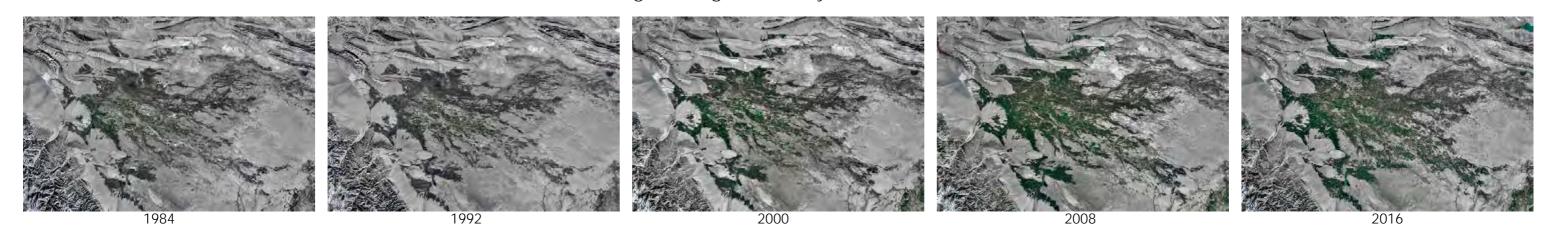




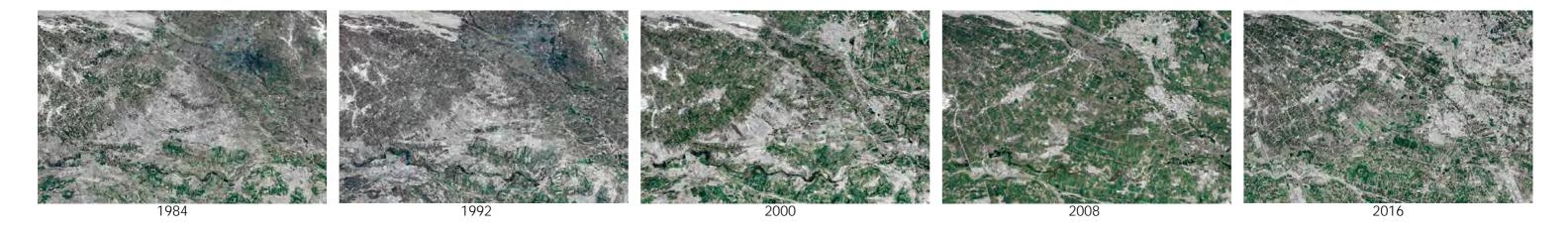
OASIS CITIES IN XINJIANG



**Kashgar Oasis**Oasis growth is generated by human activities.

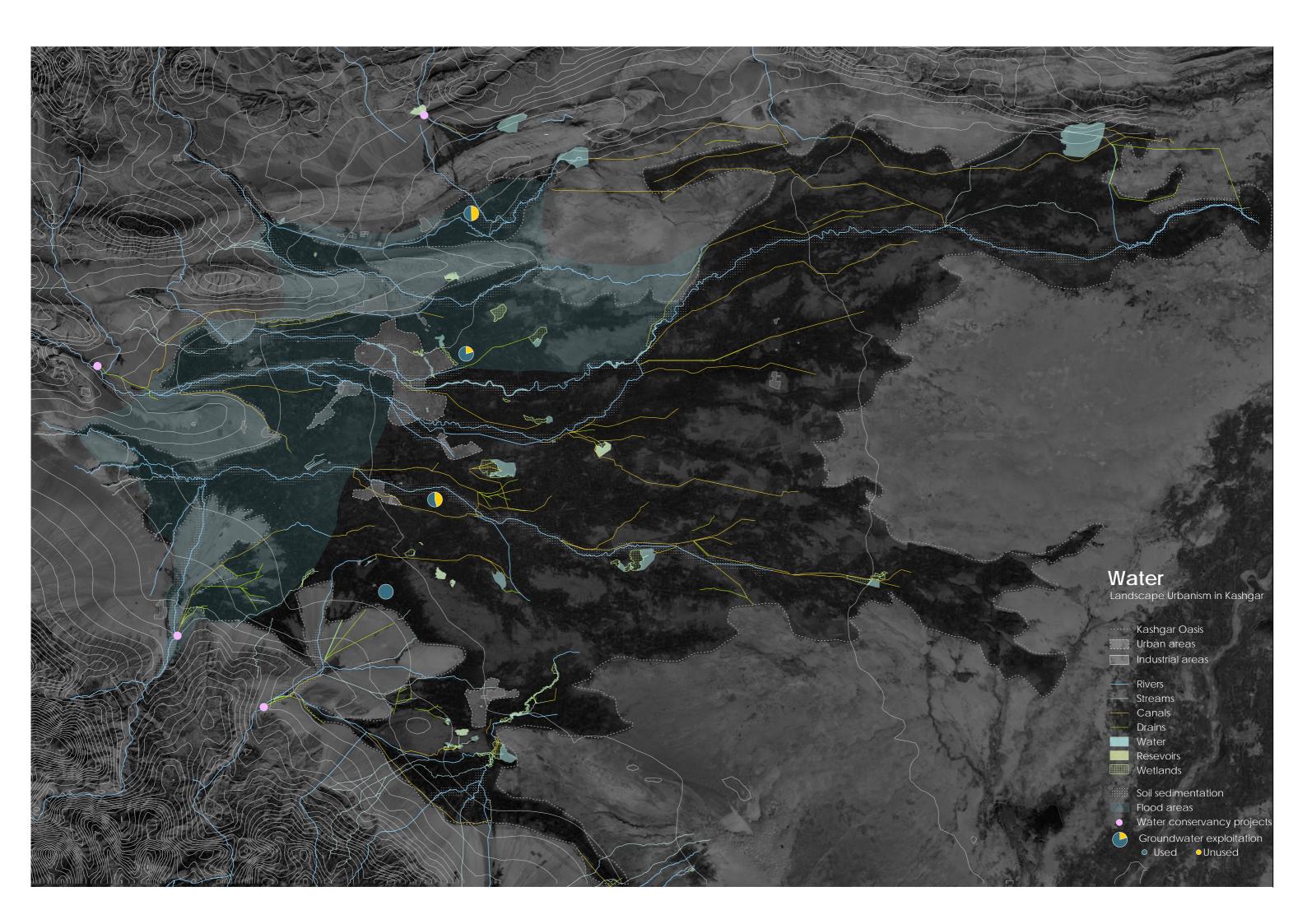


**Oasification**Desert is transforming into oasis.

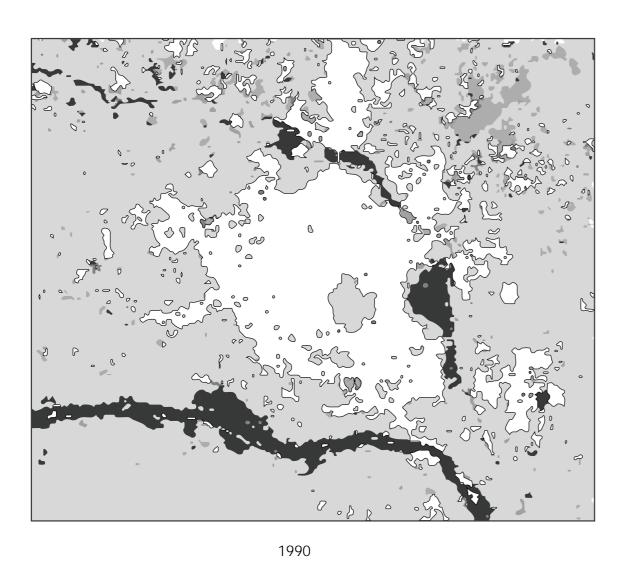


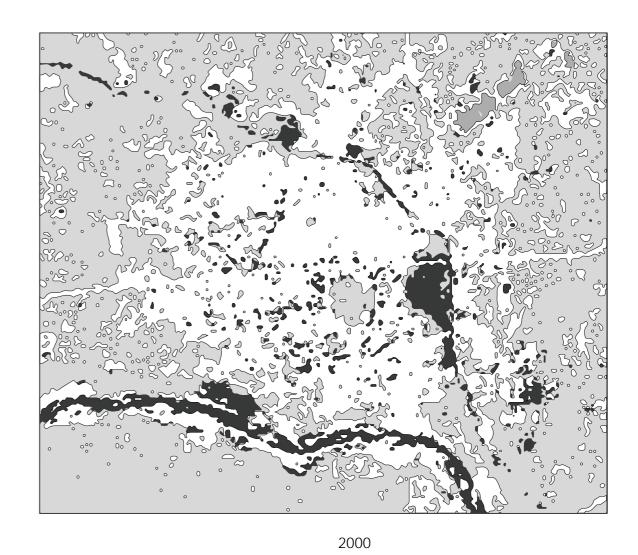
**Desertification**City is becoming new desert.





#### WATER IN KASHAGR



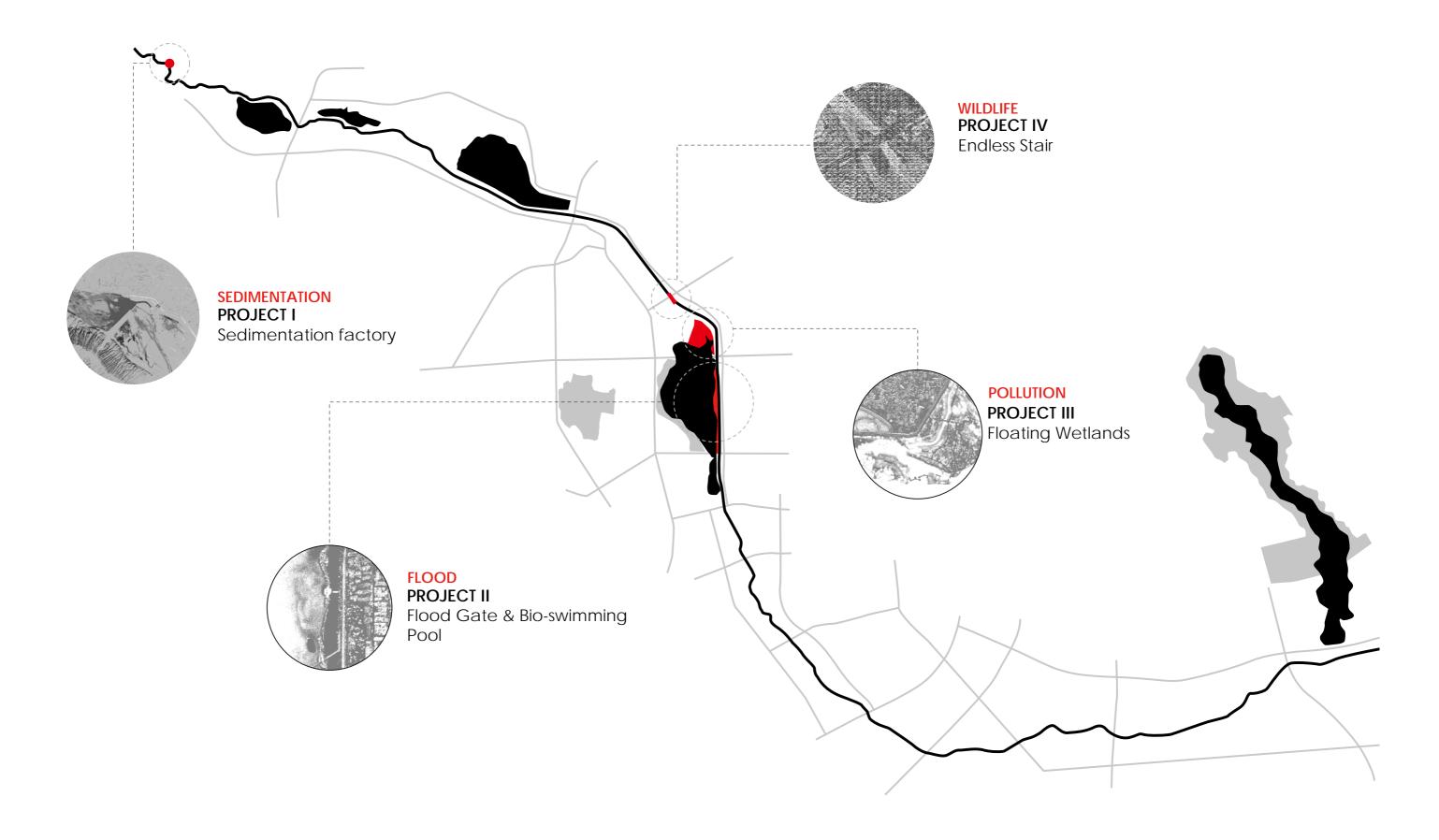


Vegetation Area
Water

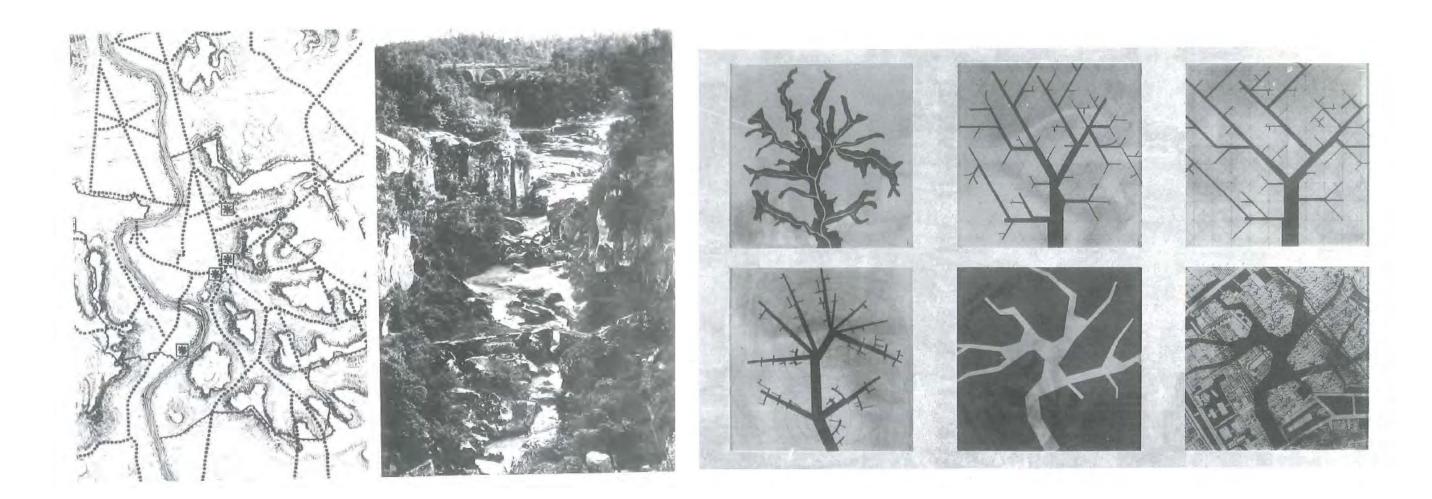
Nonvegetation Area

Desert





Concept generation



To retrieve the 'future' in the 'past', Portoghesi researched on 'Rome before Rome'. That is, depending on the typical original landscape which still ran beneath the city and undermined the foundation of its buildings, the structure of the future city was resuscitated and reorganized by contemporary linguistics.

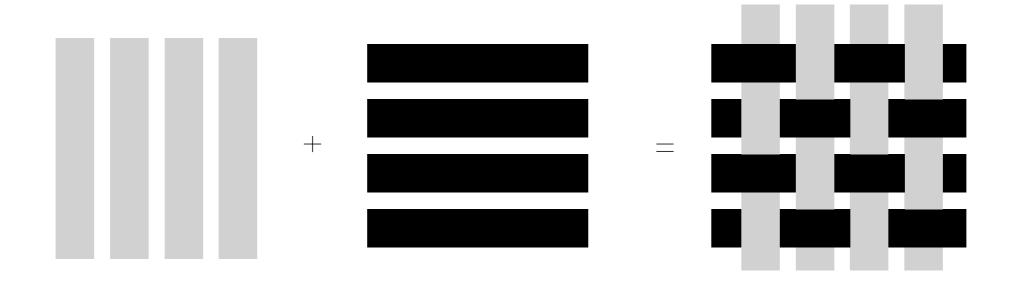
----Paolo Portoghesi, Roma Interrotta, 1978



CONCEPT MODEL
Bring back the landscape before city.







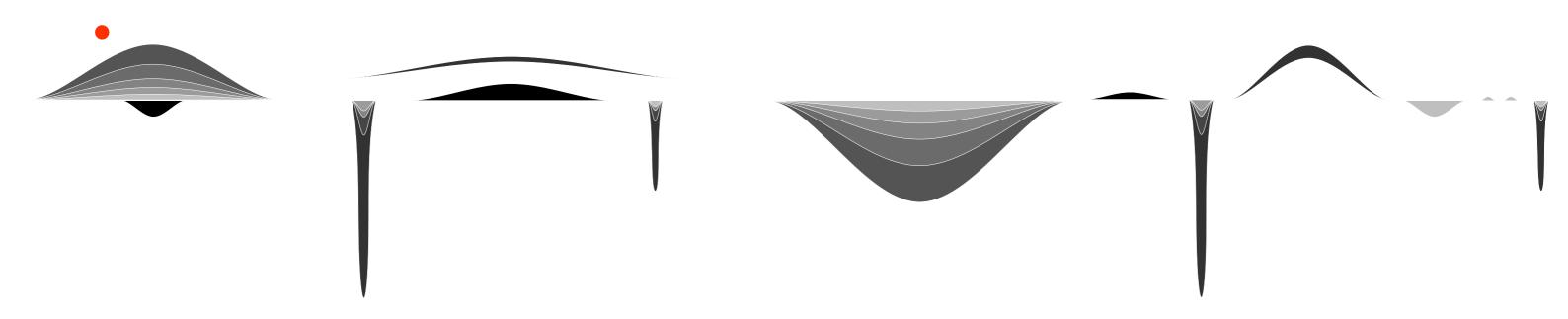
Landscape

Architecture

Interweaving of landscape and architecture

### **RECONCEPTUALIZATION**

LANDSCAPE AS INFRASTRUCTURE





## DESIGN I

I. Architecture makes landscape Sedimentation factory

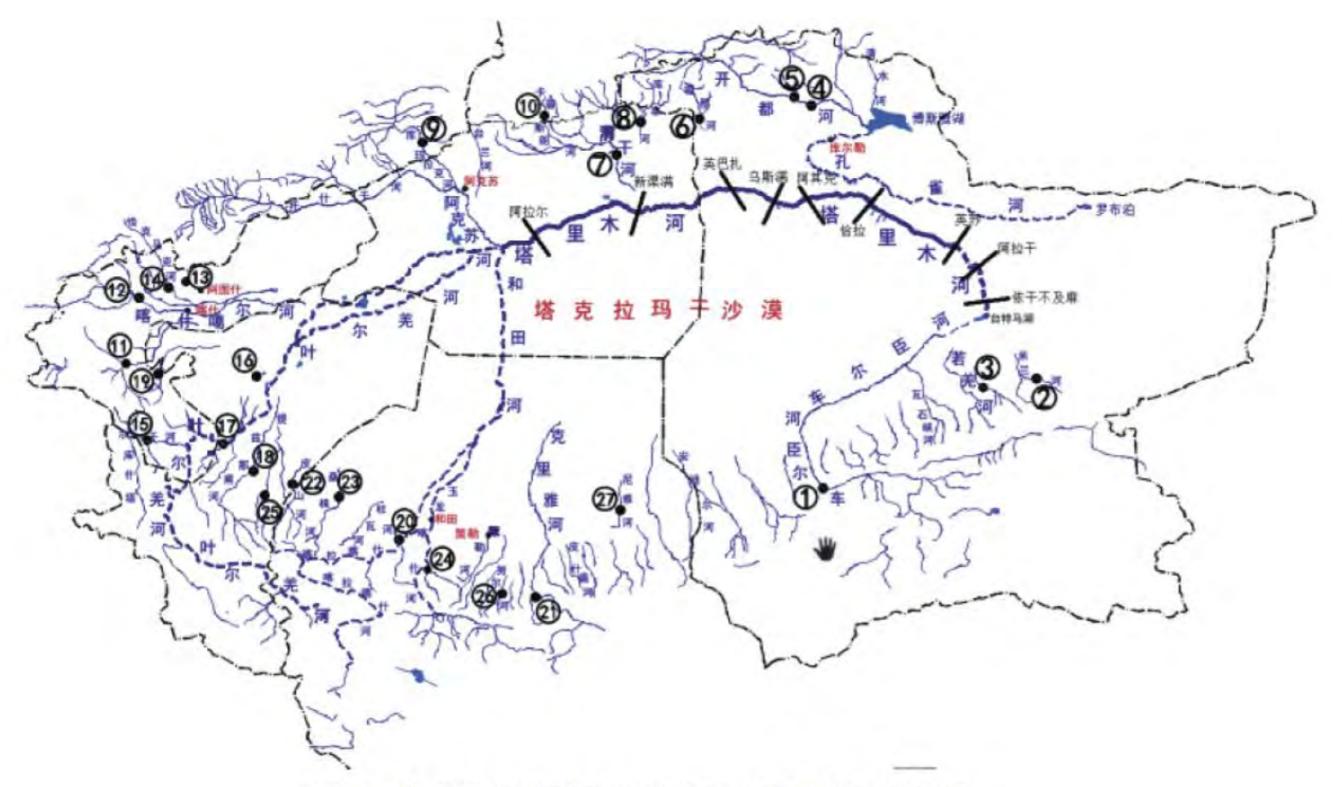
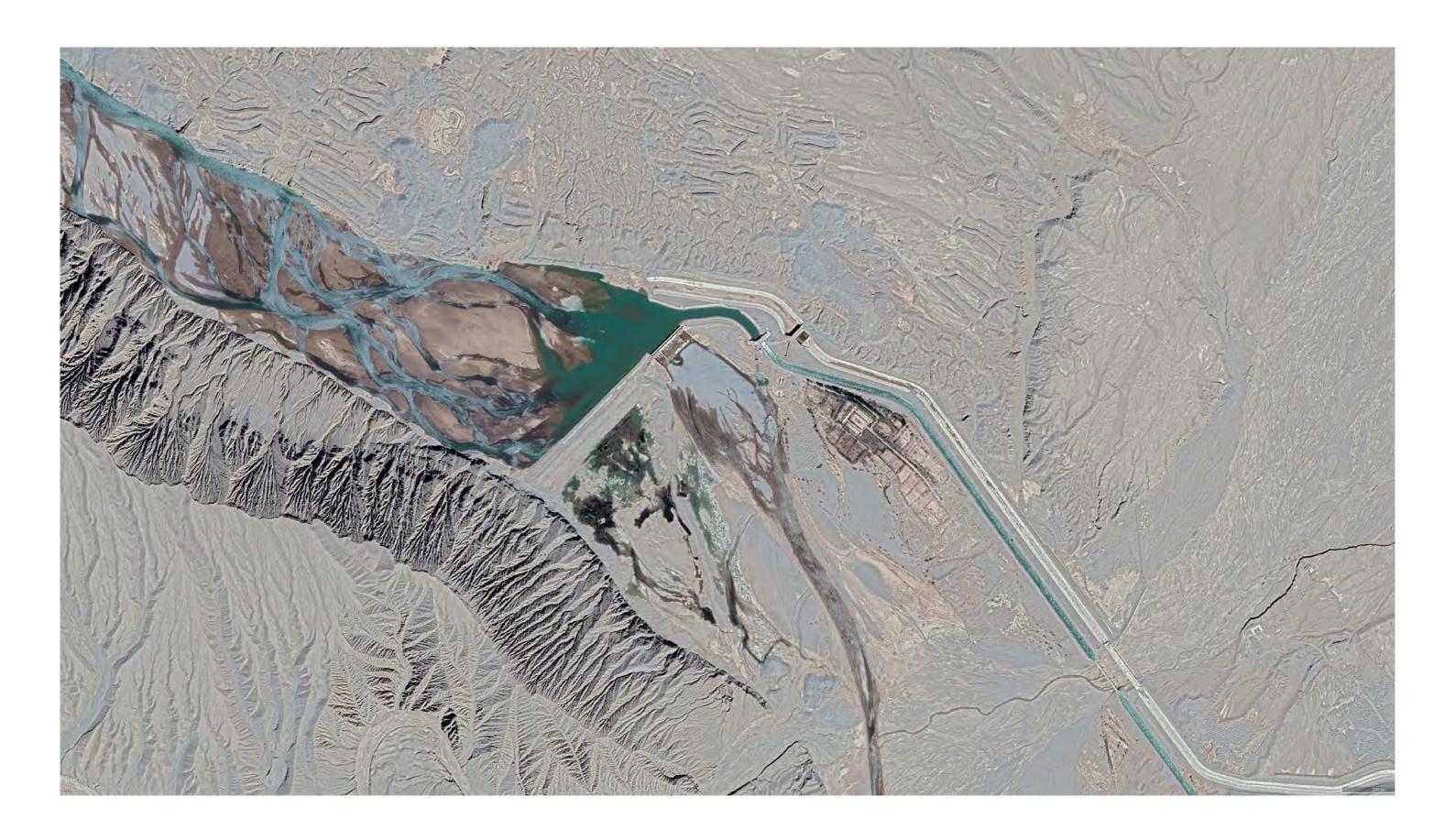
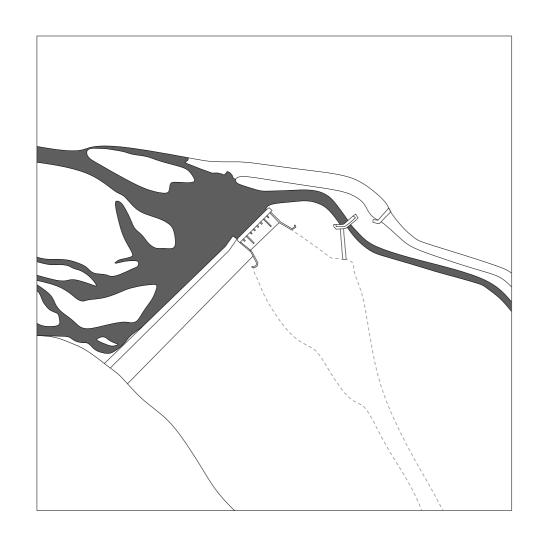
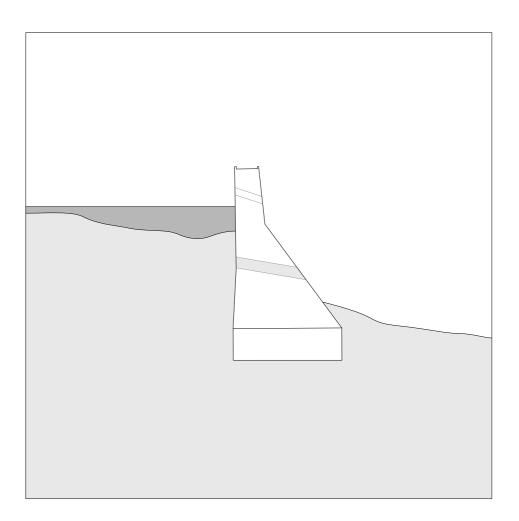


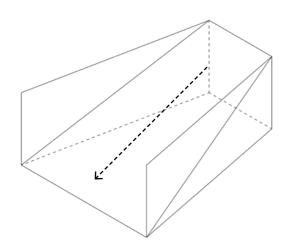
图 1 塔里木河流域水系及重大水利工程布局简图 Water conservancy projects in Tarim Basin

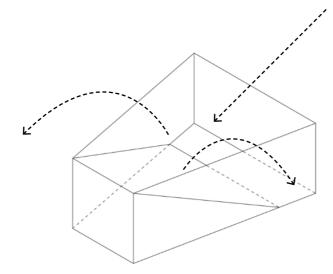


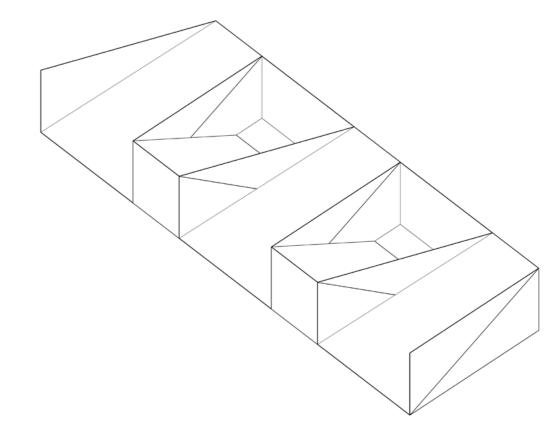




### Unit design

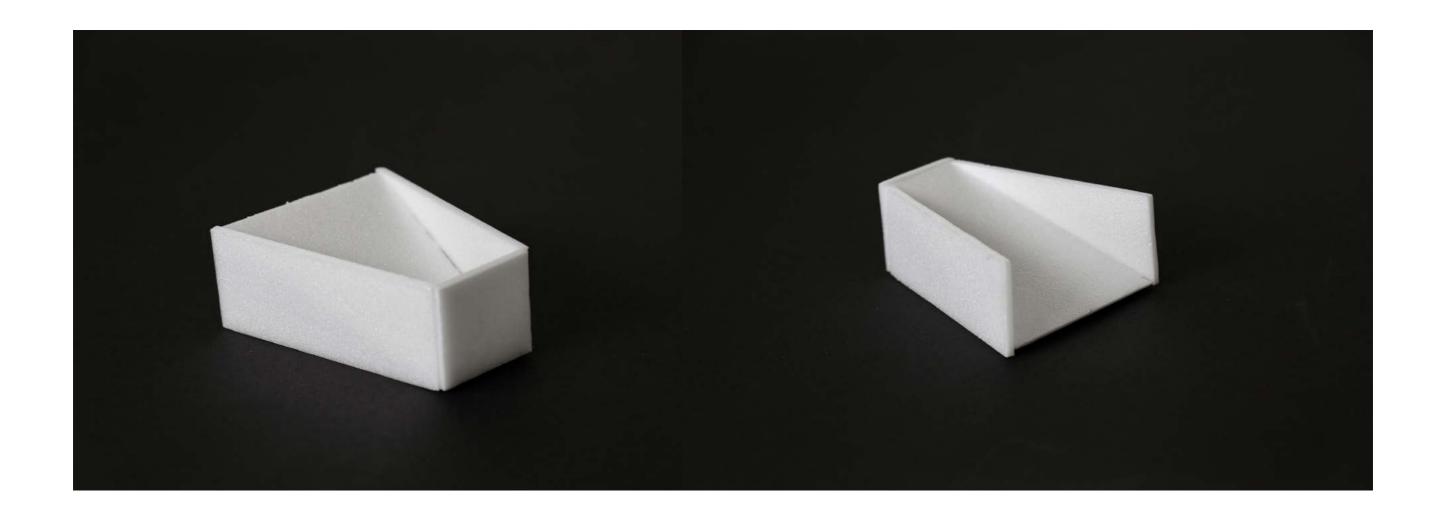


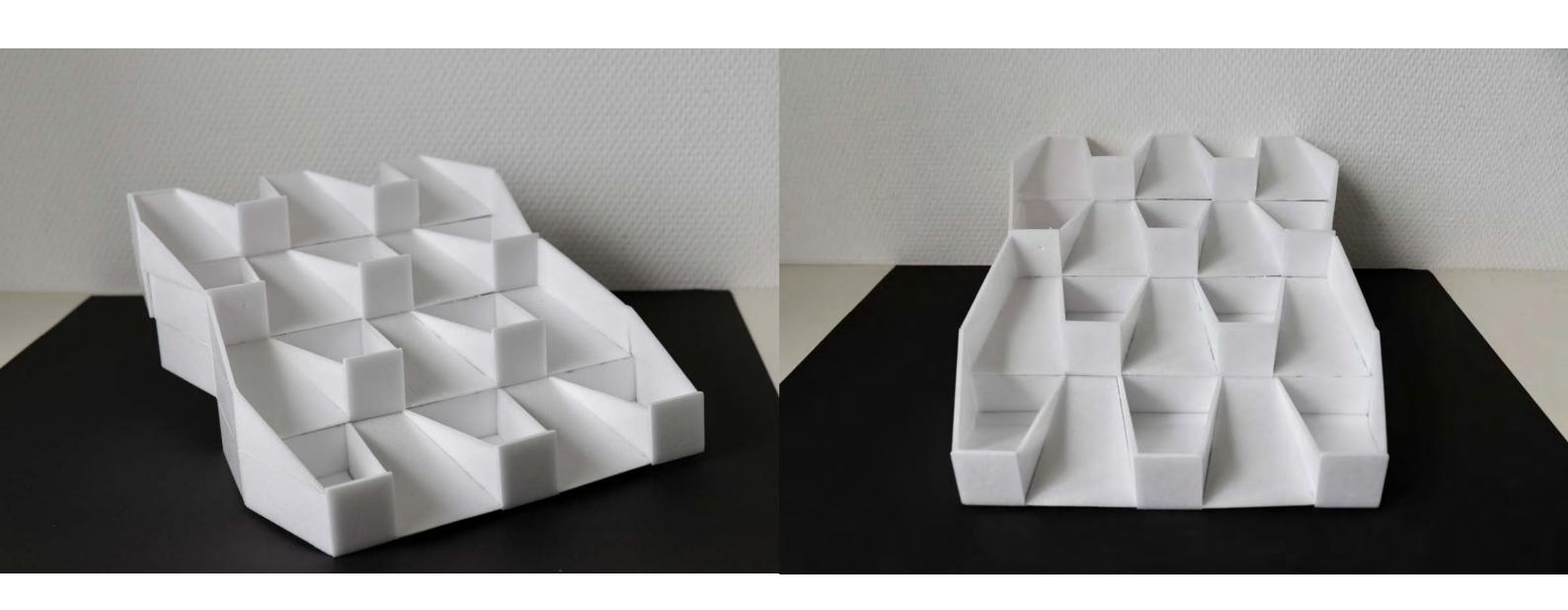




Slope Sedimentation tank

Combination

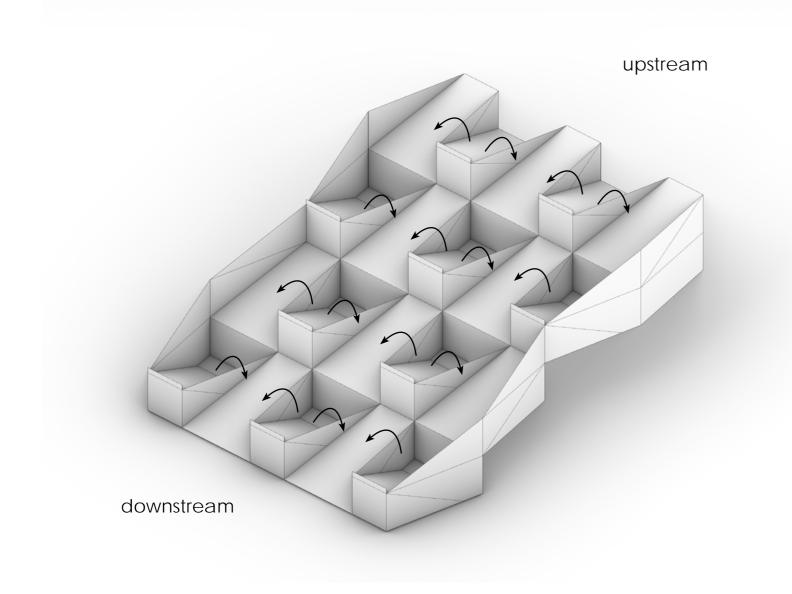


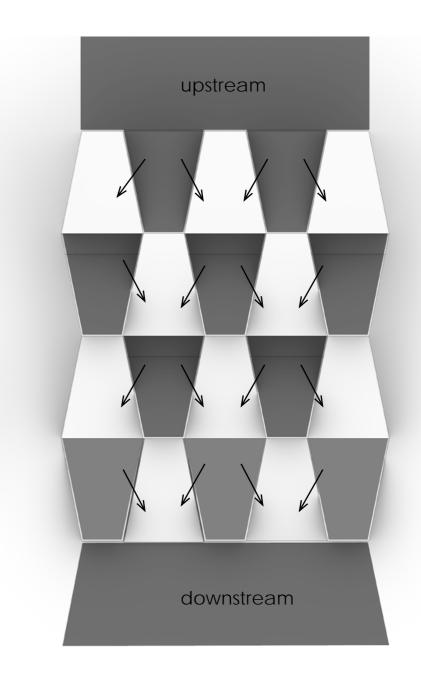


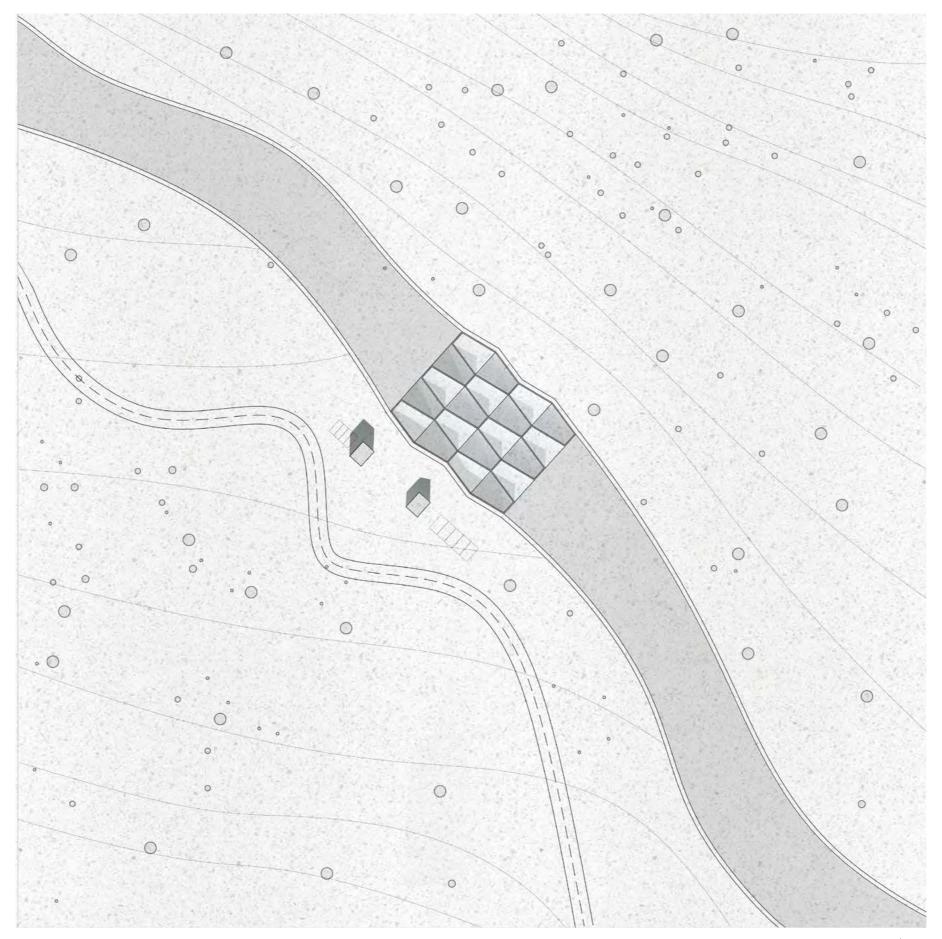




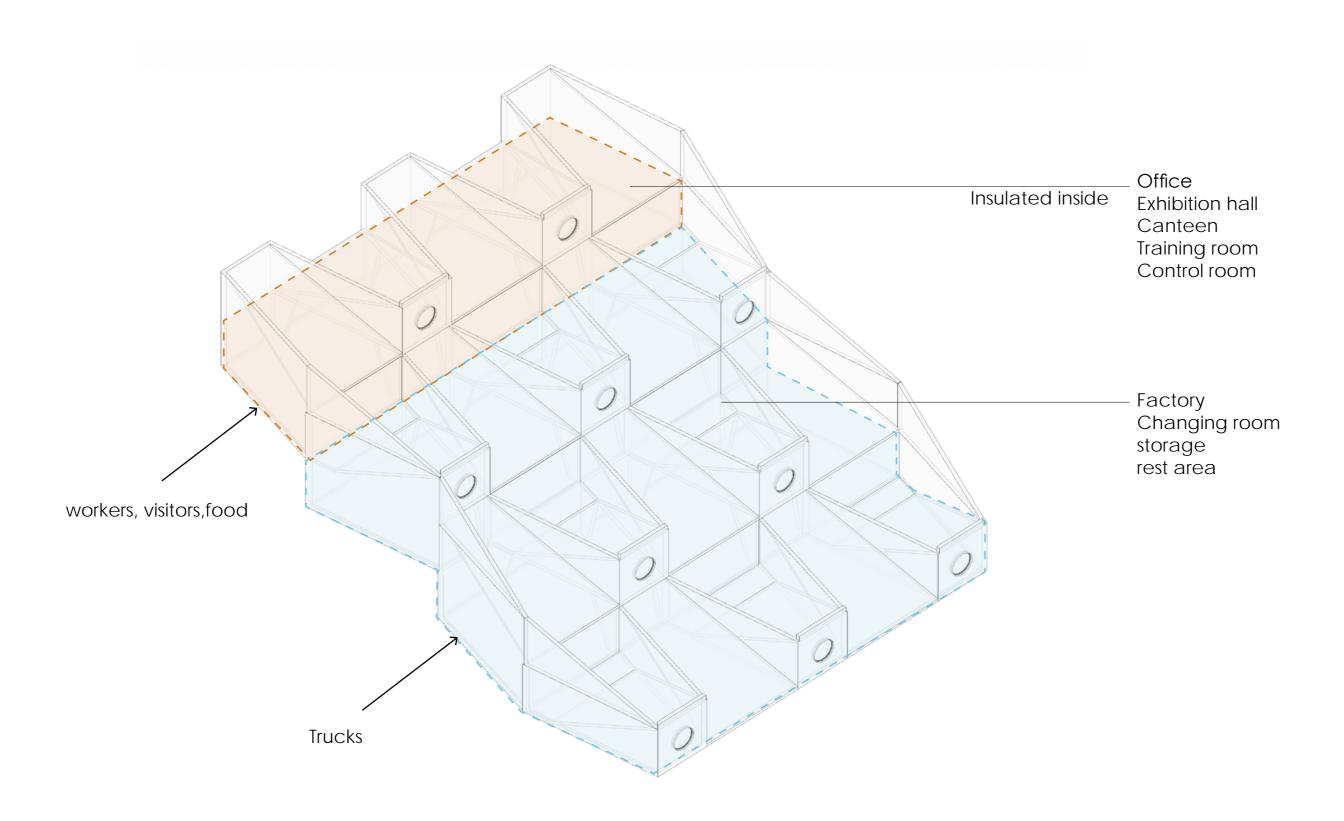


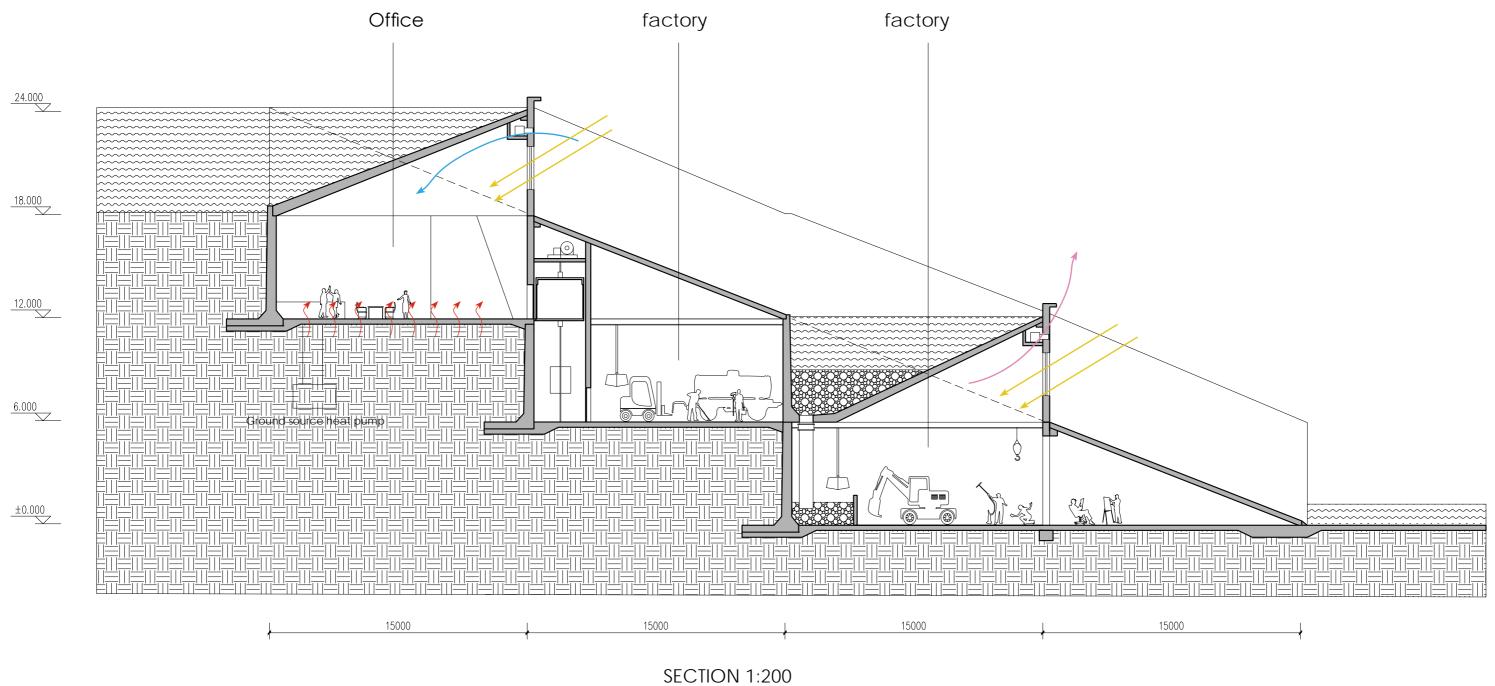


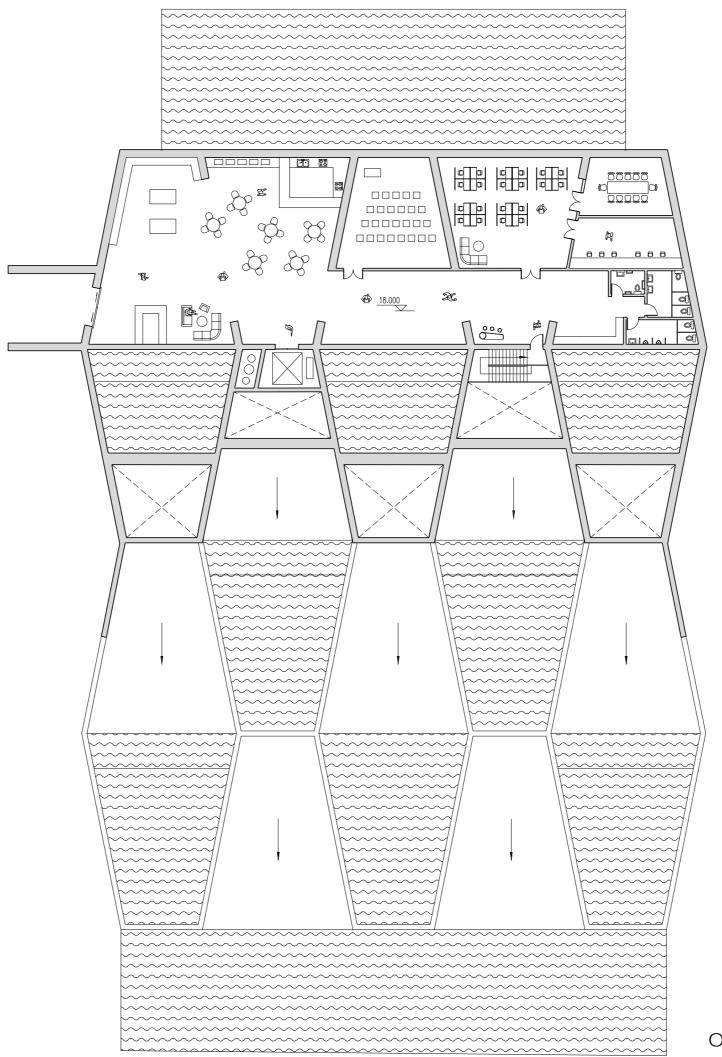


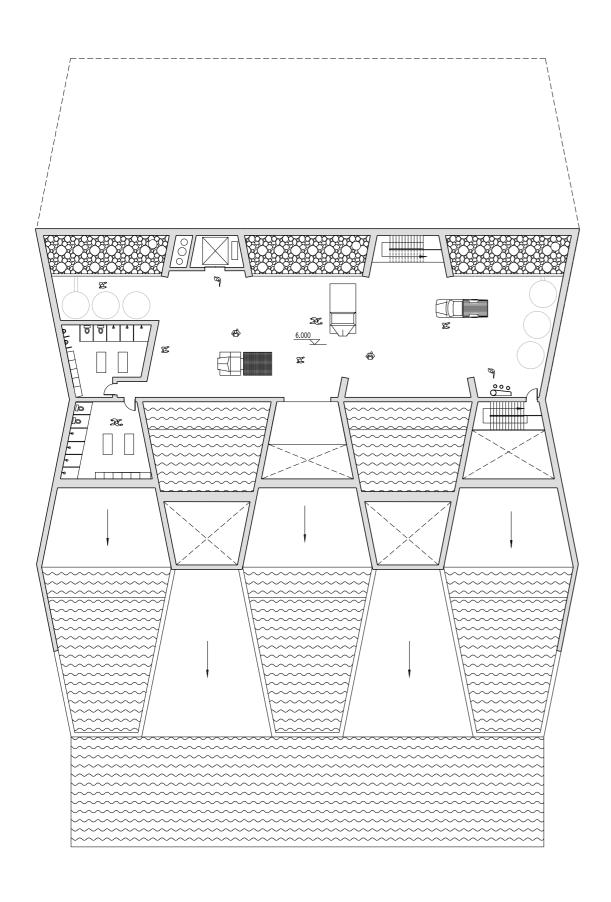


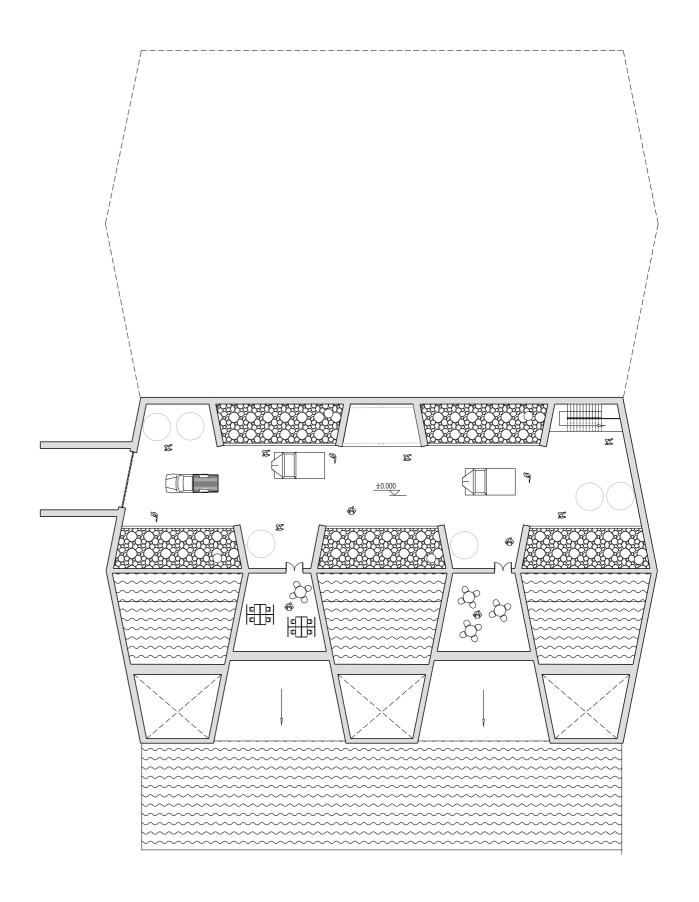
Master plan 1:2000 ↑





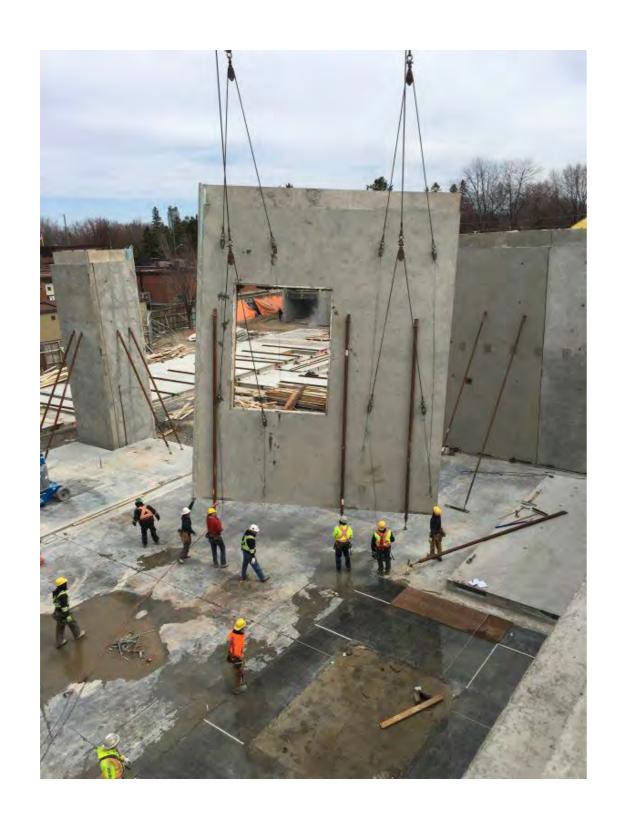






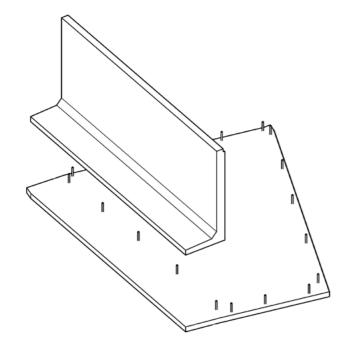
FACTORY PLAN1:300

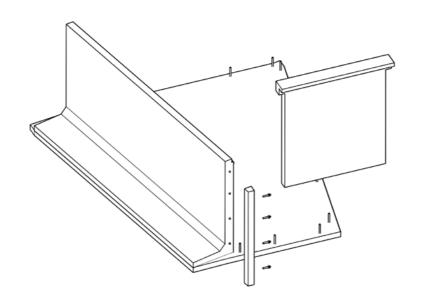
#### PRECAST CONCRETE PANEL

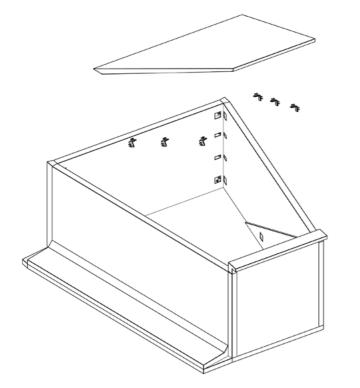


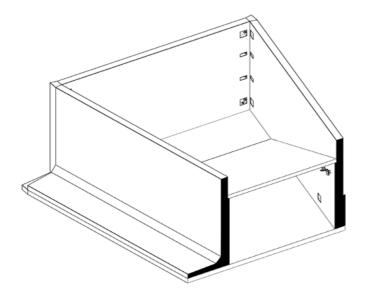


#### Construction method



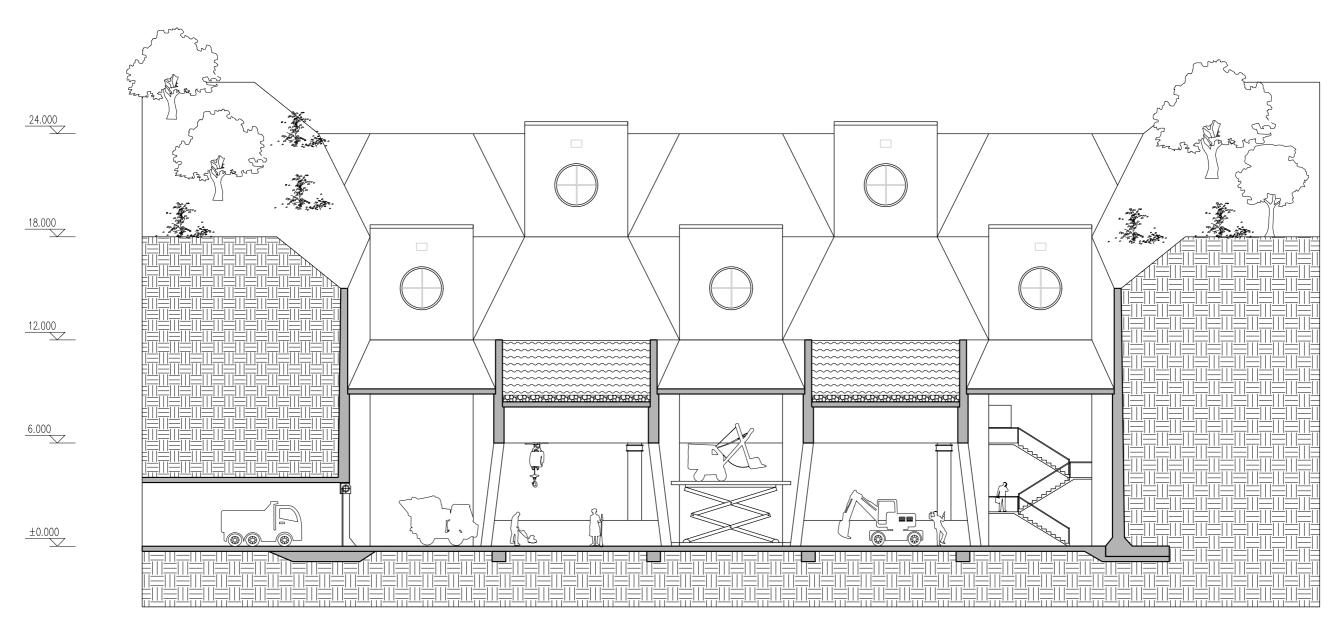




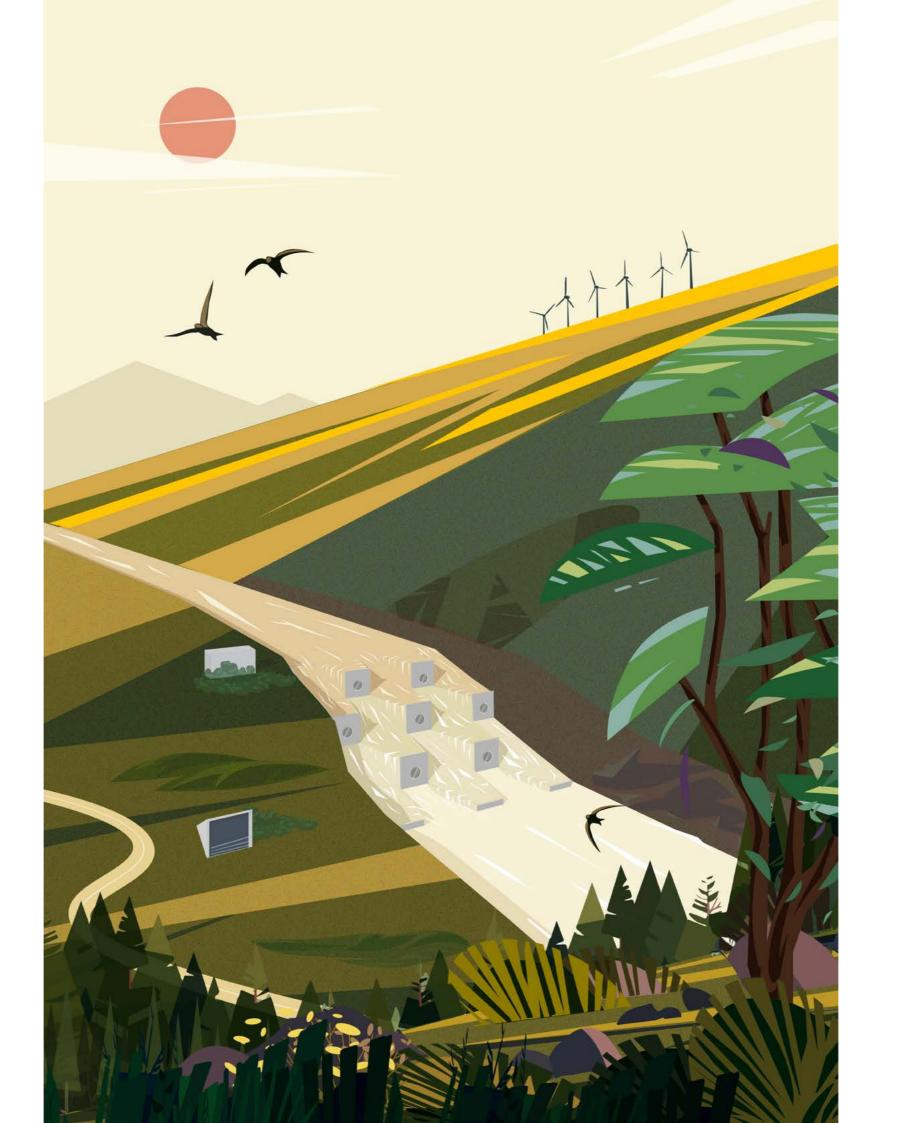


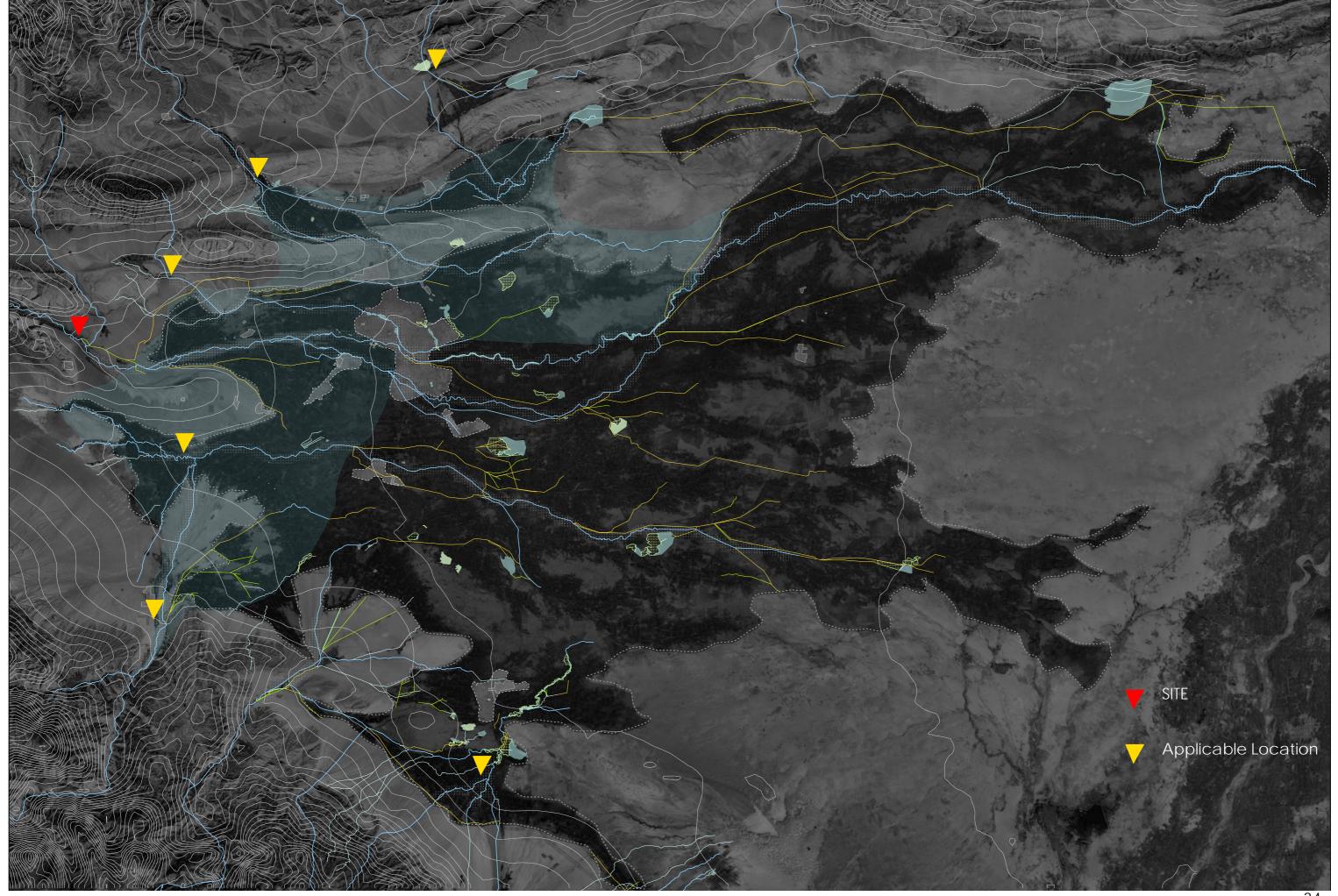


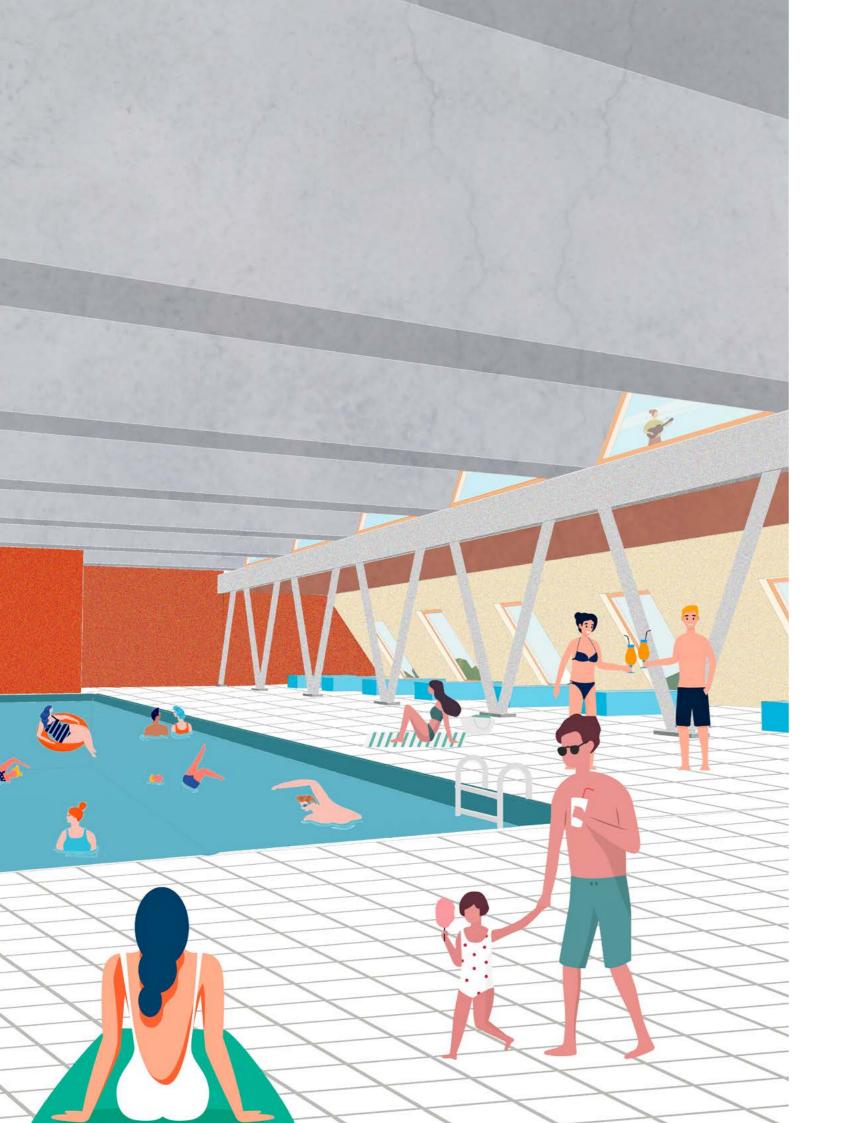




SECTION 1:200



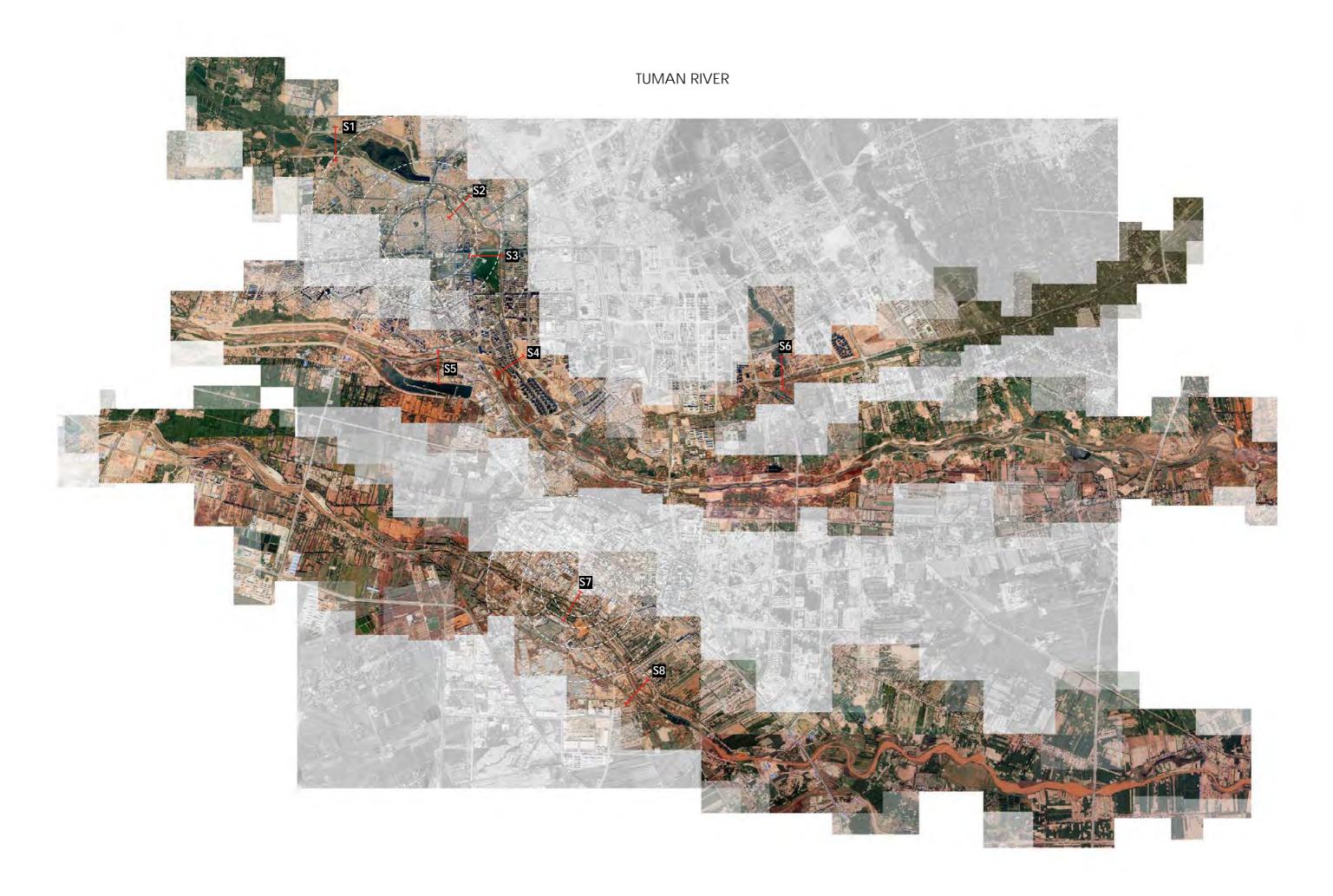




## **DESIGN II**

II. Landscape as infrastructure Flood gate & Swimming pool





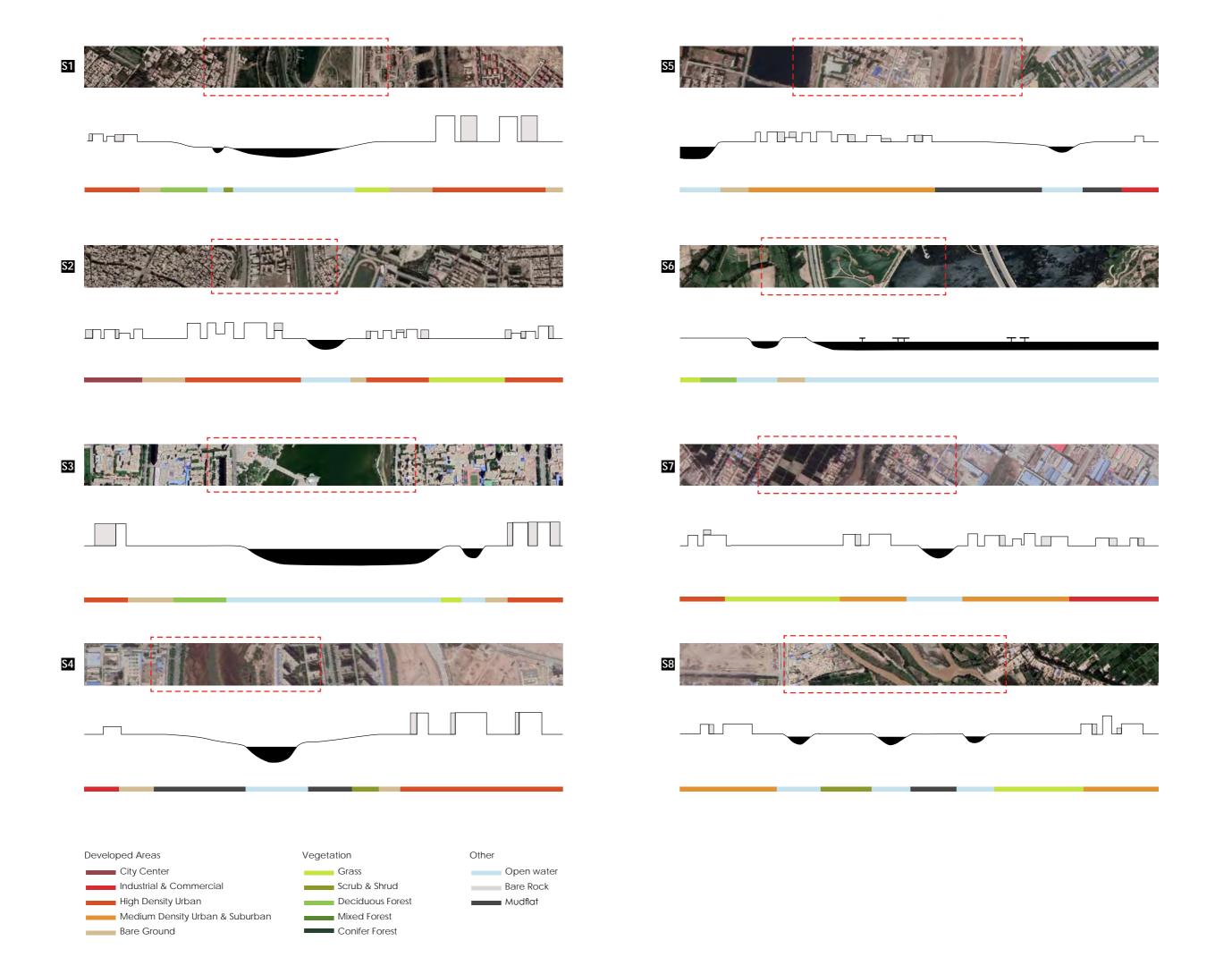
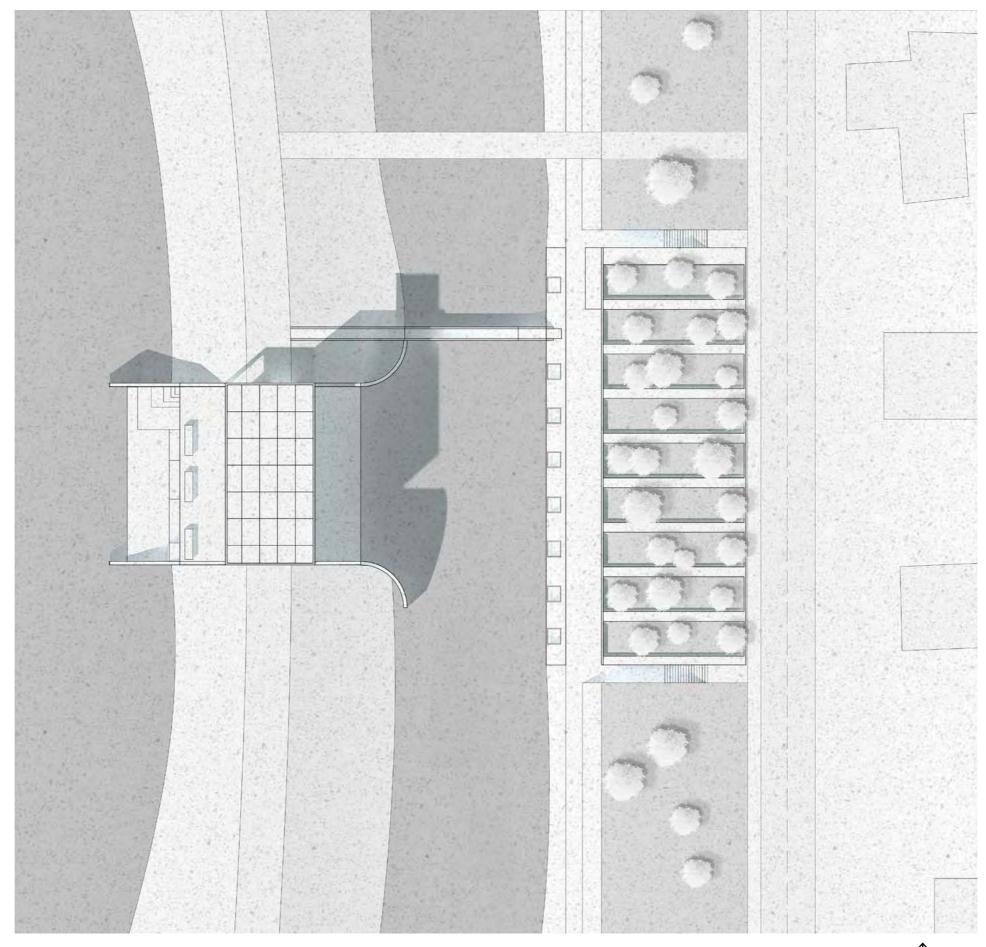


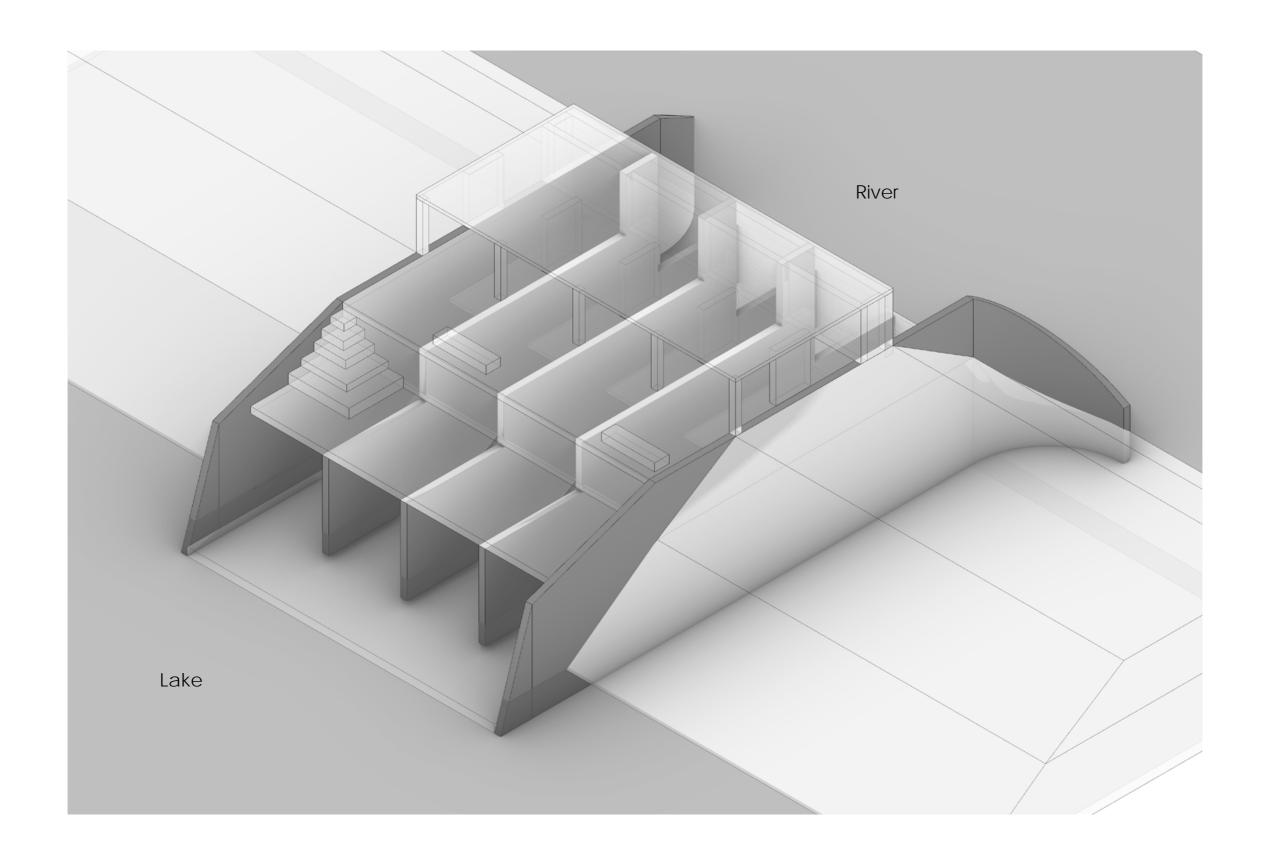
Table I. Direct losses caused by serious natural disasters during 1949-1990 in Xinjiang.

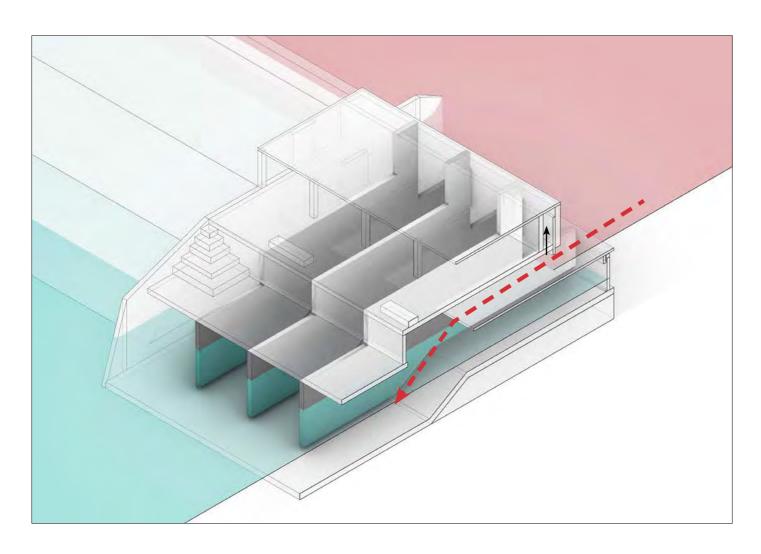
	Fatalities	Injured persons	Domestic animal lost	Damaged houses	Damaged key structures	Direct economic losses (10 <sup>6</sup> Chinese Yuan)
Earthquake	125	319	101,200	41,173	4	223.48
Drought			156,113			111.45
Flood	1053	418	254,620	97,756	157	569.59
Windstorm	108	124	46,374	4309	5	226.27
Hail	56	429	75,905	6195		362.55
Frost and freezing	212	678	7,773,492	1922	1	55.35
Lighting strike	15	13	28			
Plant disease and insect pests	4					45.94
Wild fire	12	13	230	870		6.67
Total	1585	1994	8,407,962	152,225	167	1601.30
Percentage due to flood	66.44	20.96	3.03	64.22	94.01	35.57

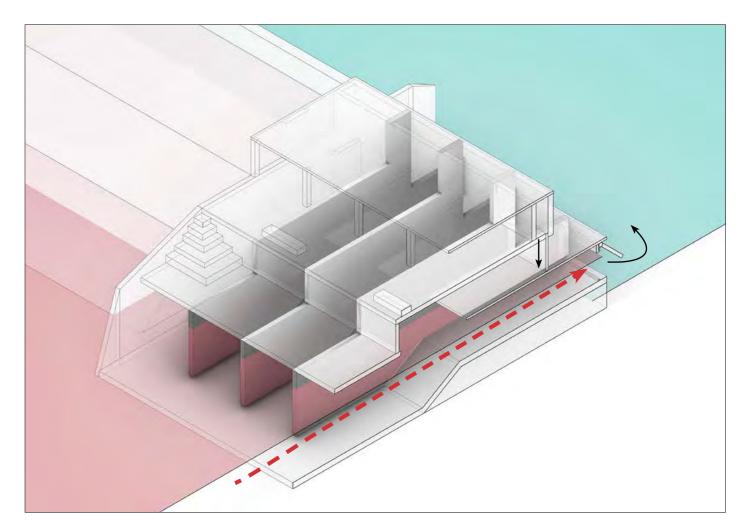
Data source: CCFDRMX (1993). Direct economic losses are unadjusted for inflation.



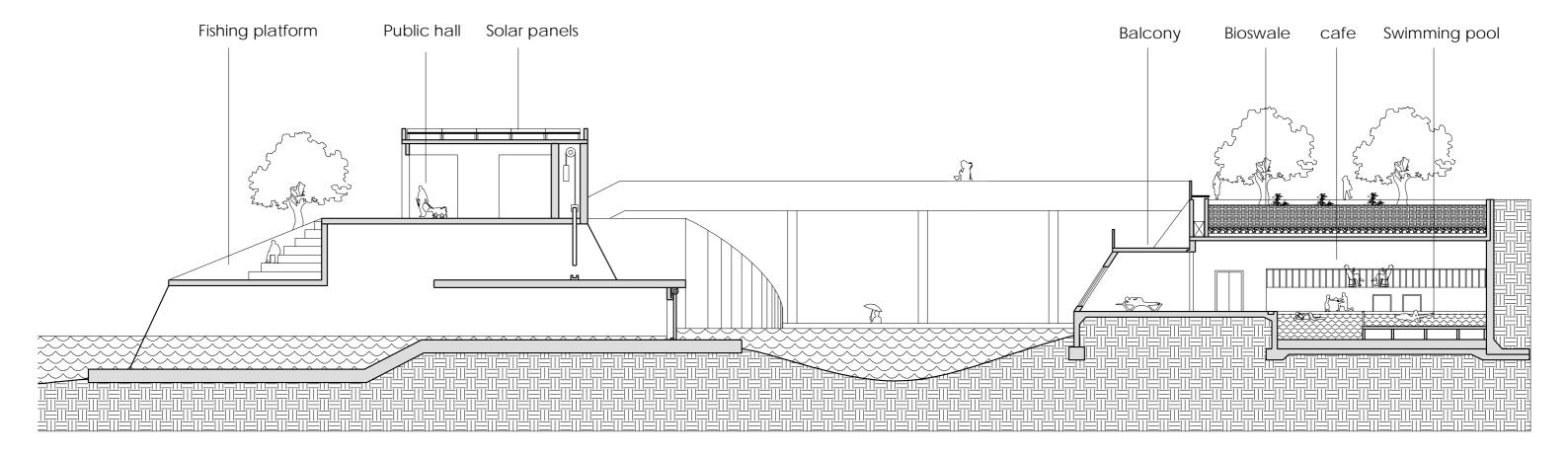
Master plan 1:500



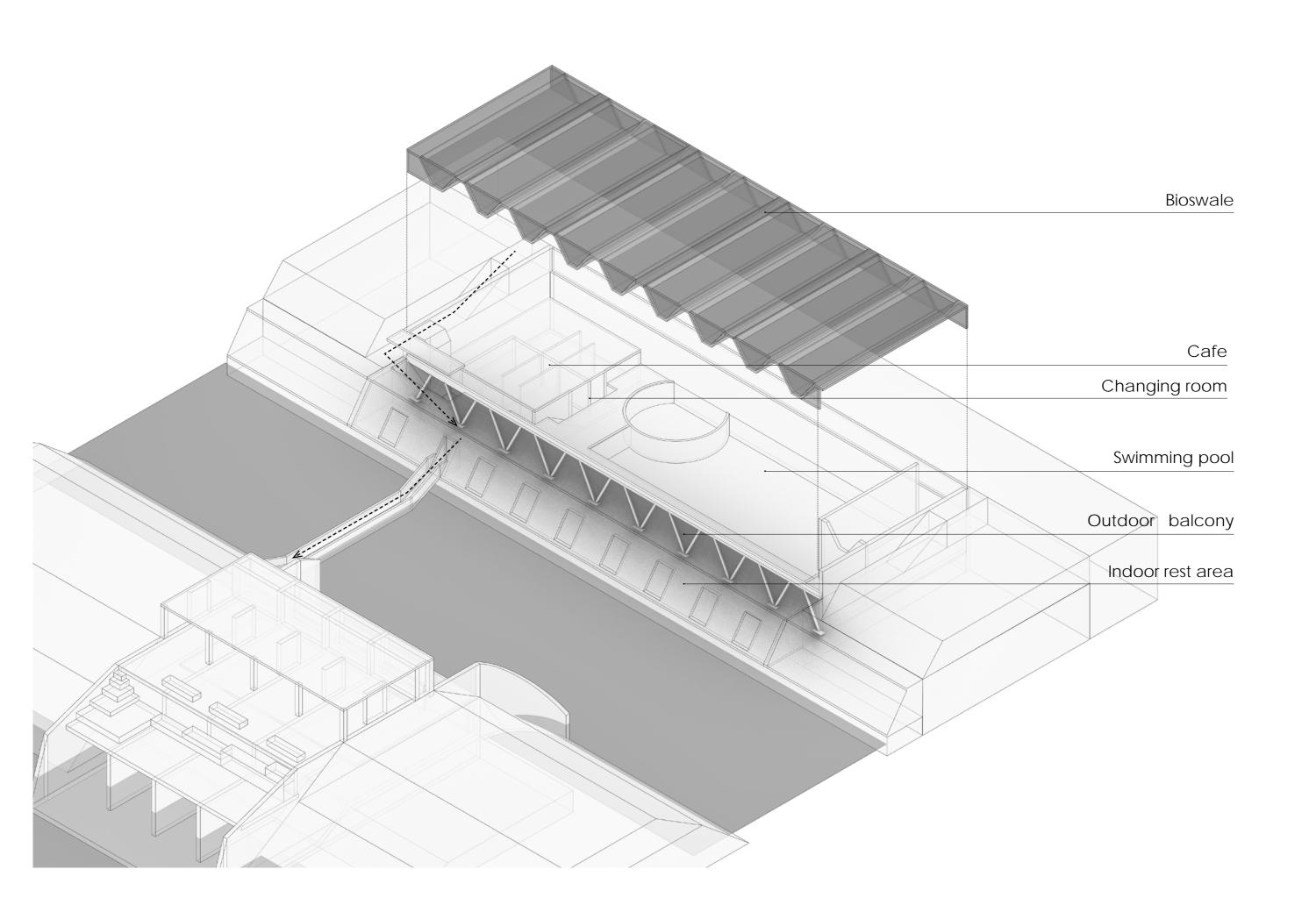


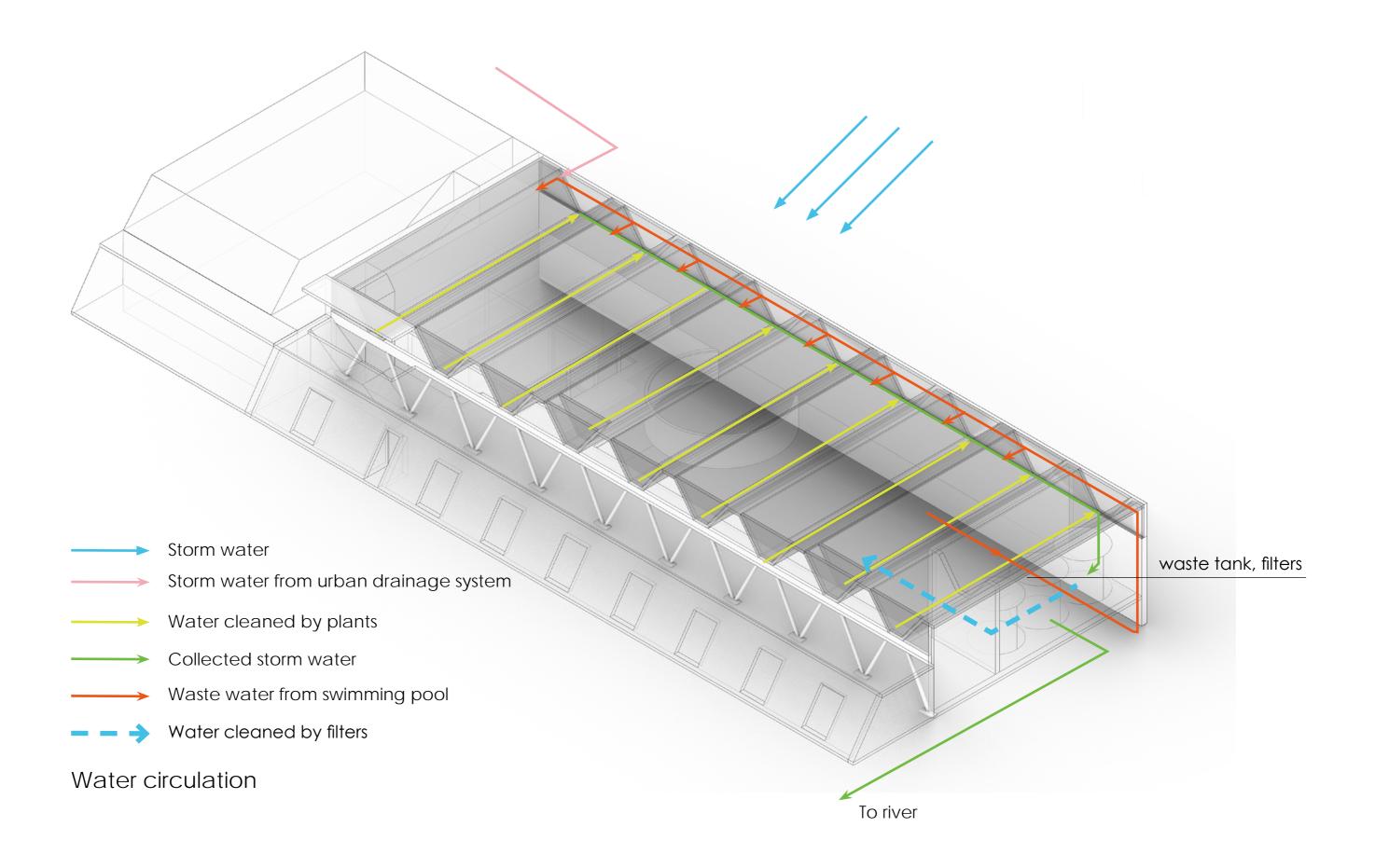


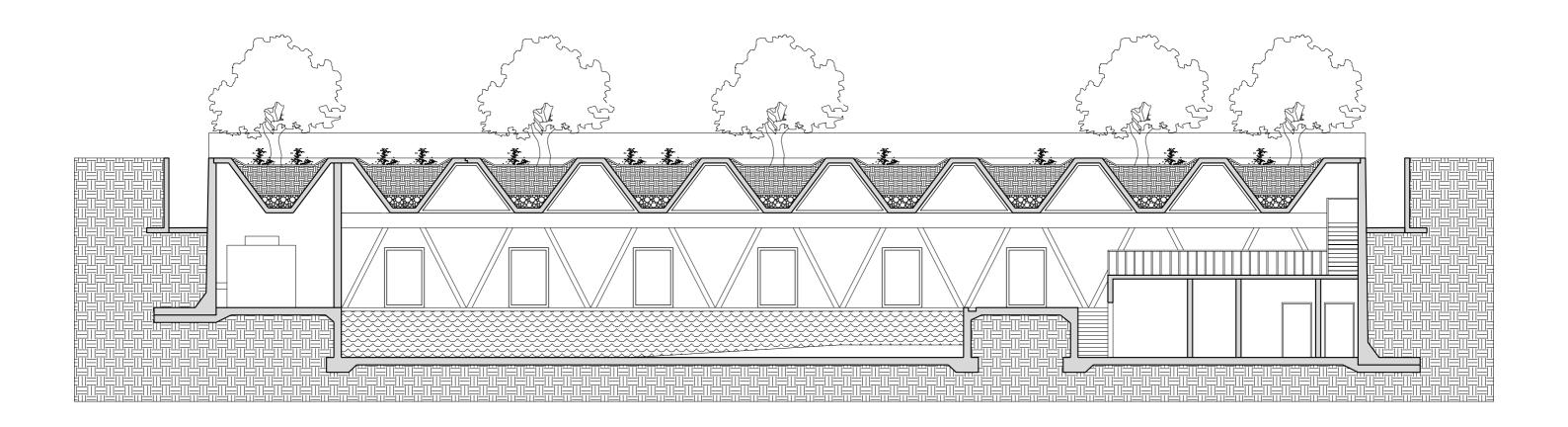
During Flood After Flood



SECTION 1:200



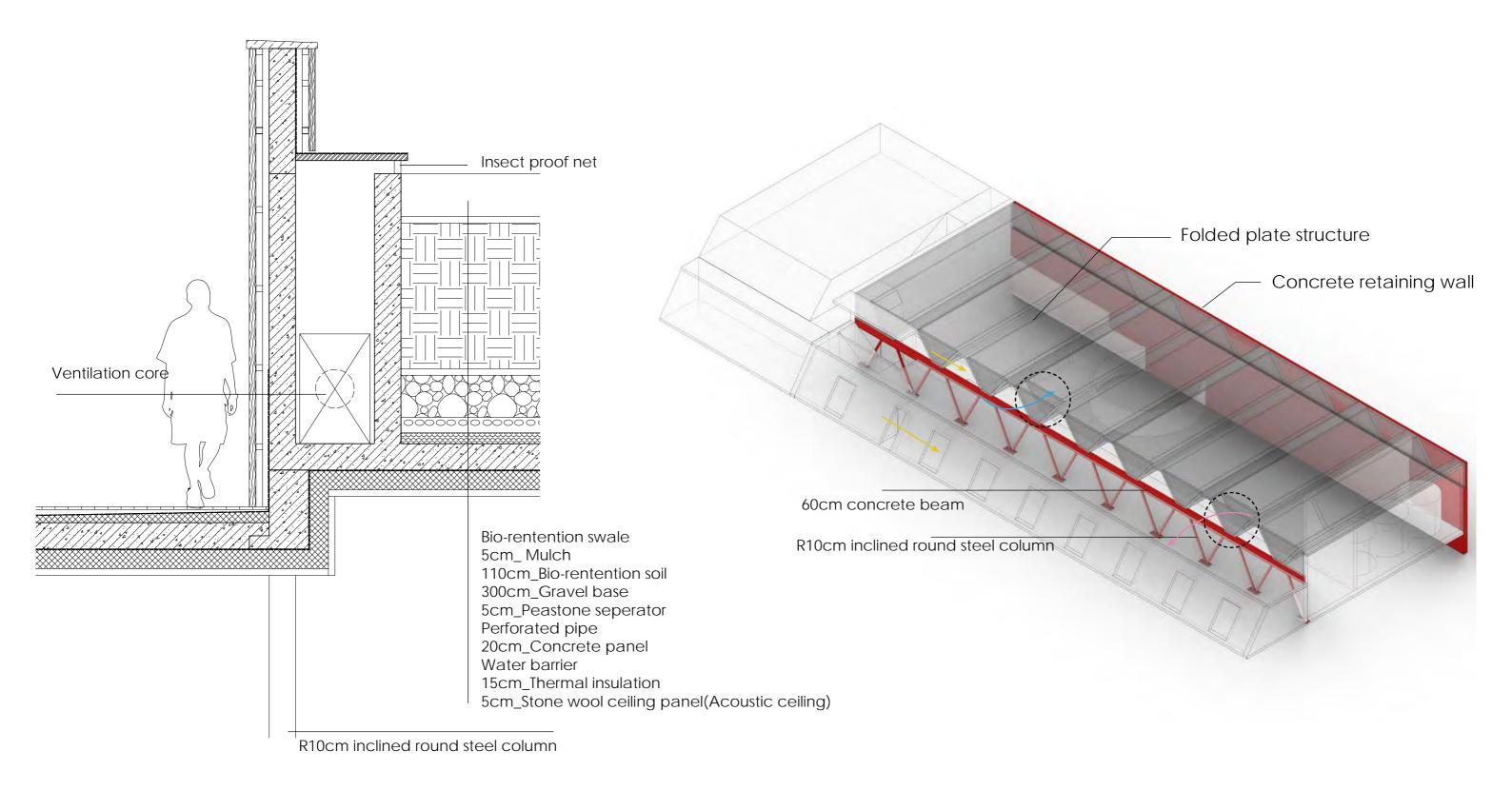


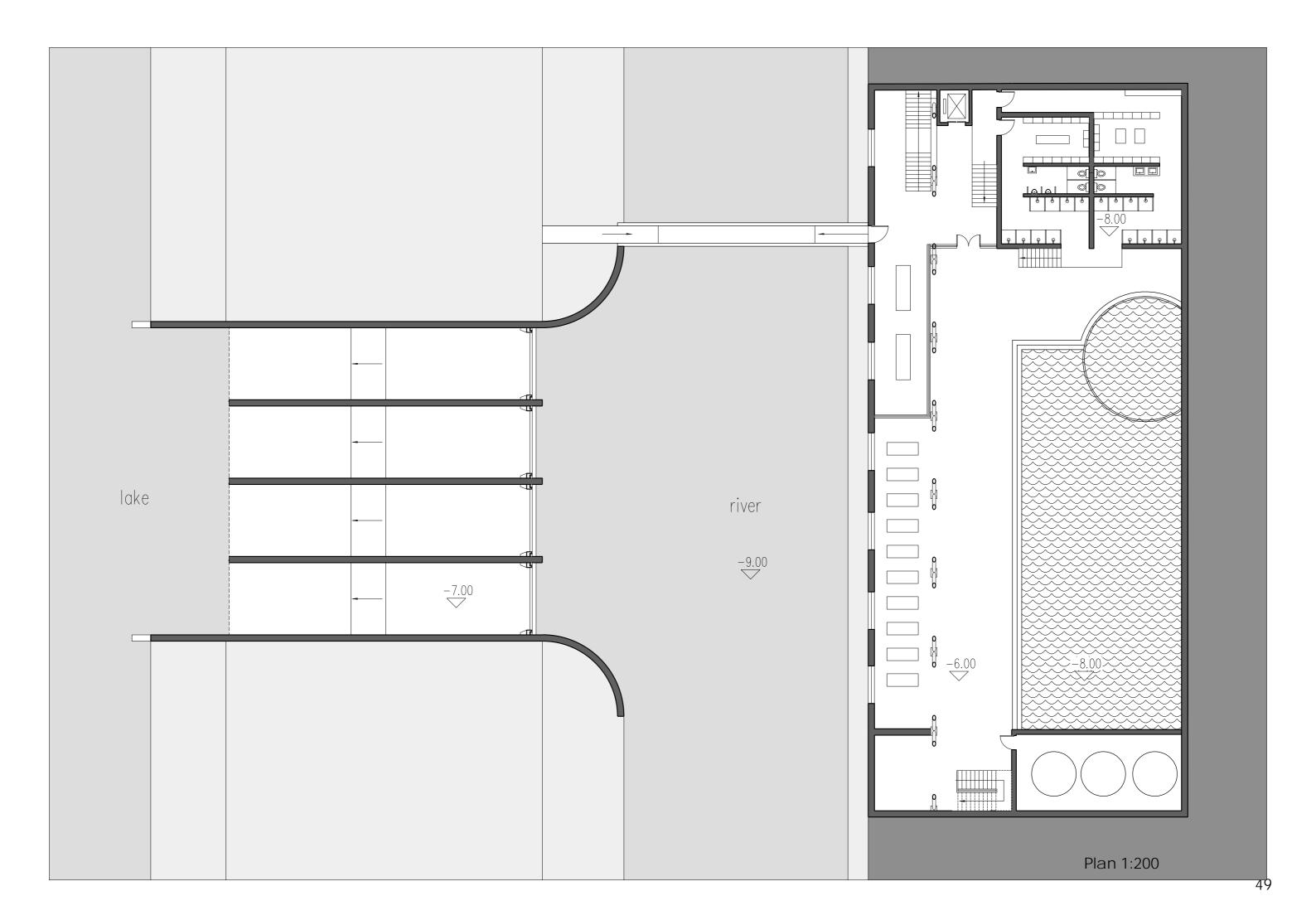


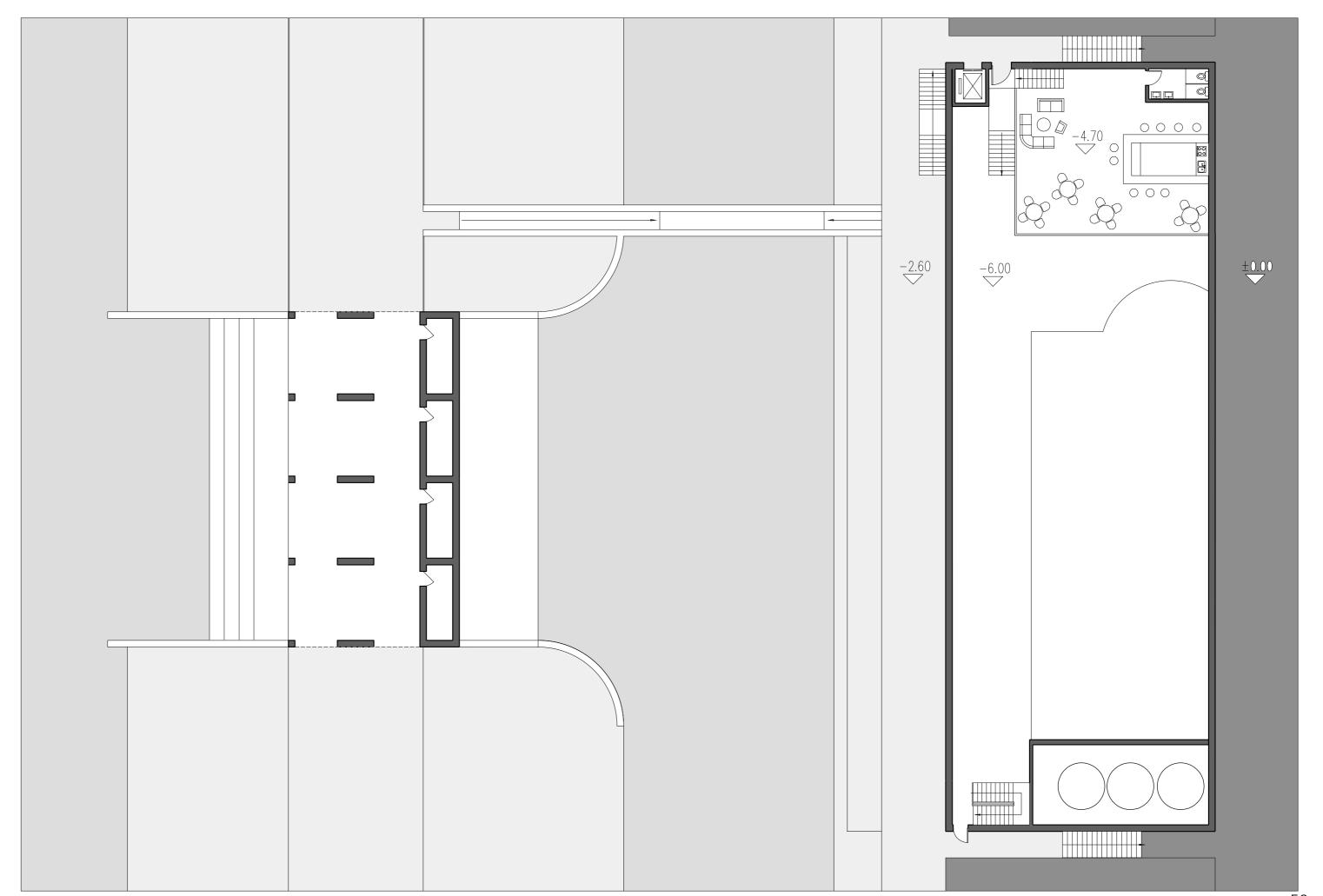
SECTION 1:150



#### Structure







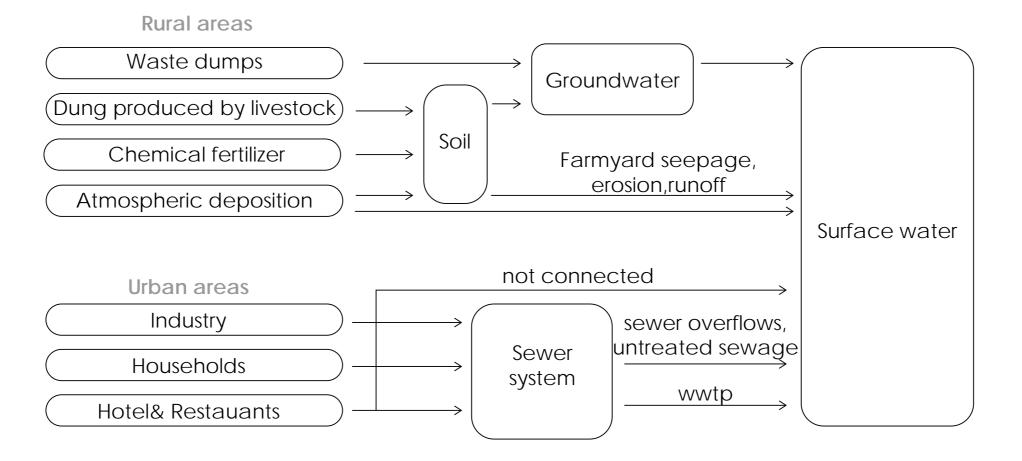
Plan 1:200



# **DESIGN III**

III. Landscape makes public life Floating wetland

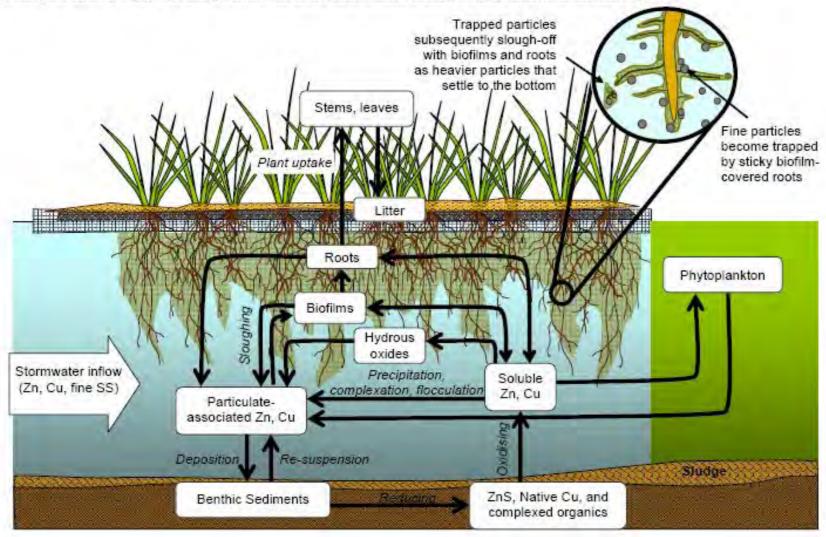
### Sewage



#### Floating wetland

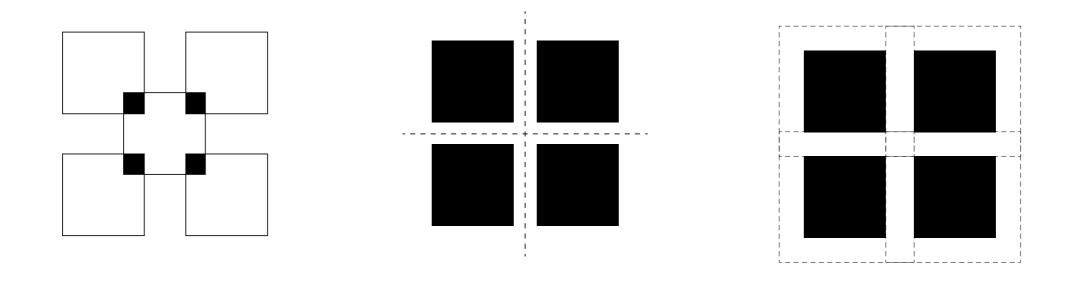
Figure 39.

Conceptual model of copper and zinc pathways and interactions within a floating wetland stormwater treatment system.

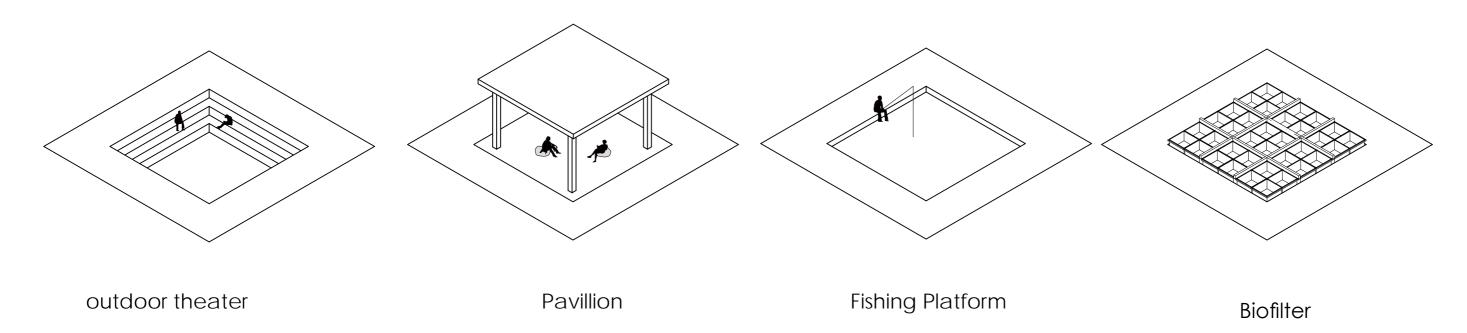


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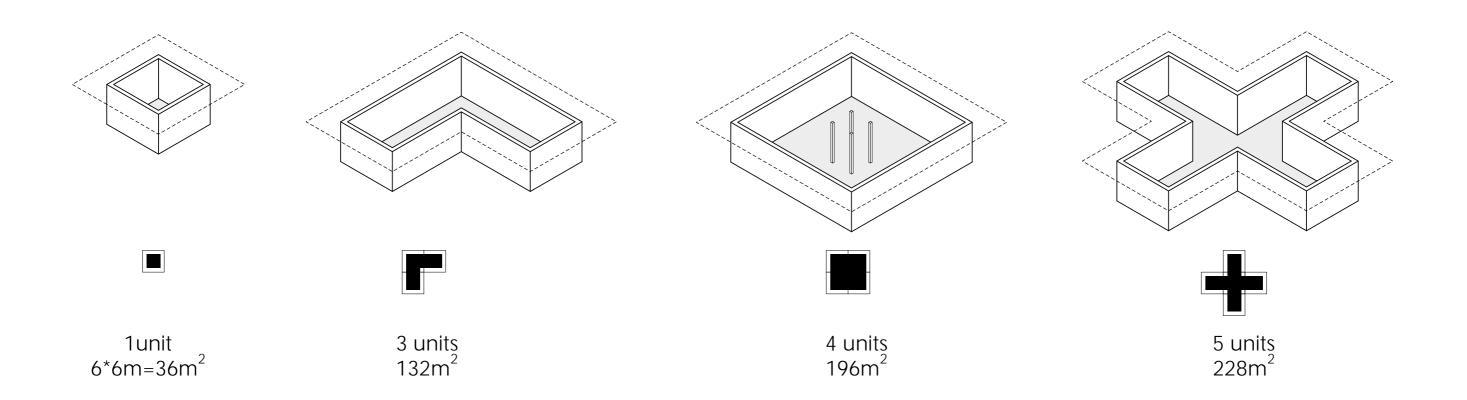


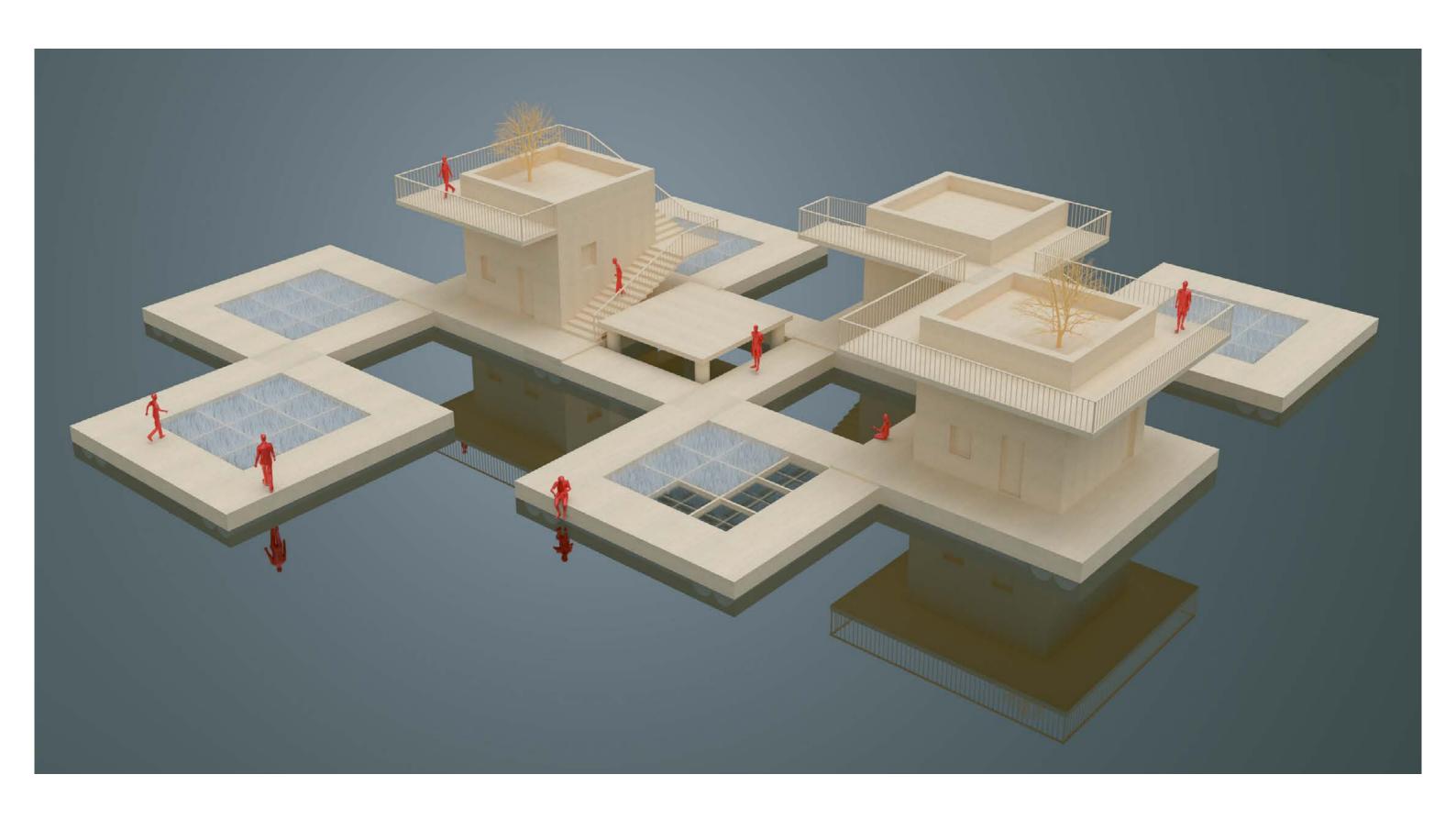


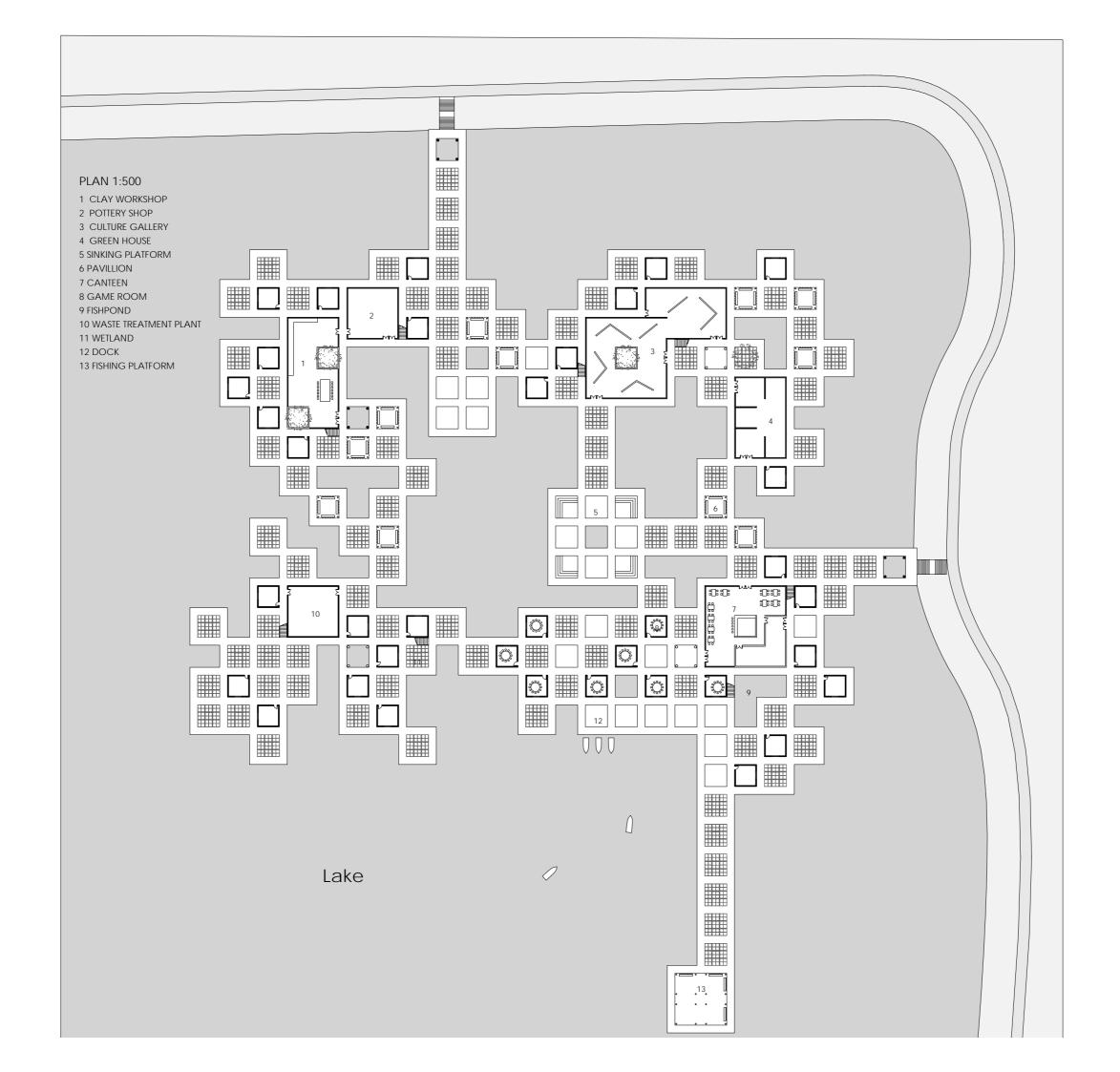
# Multifunction grid

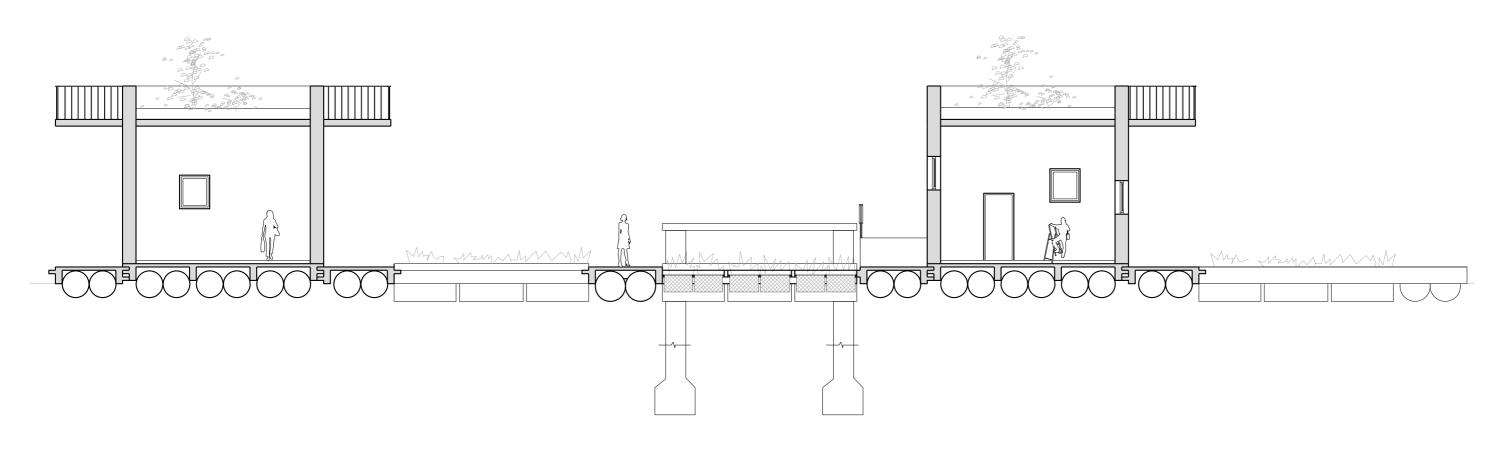


### COMBINATION

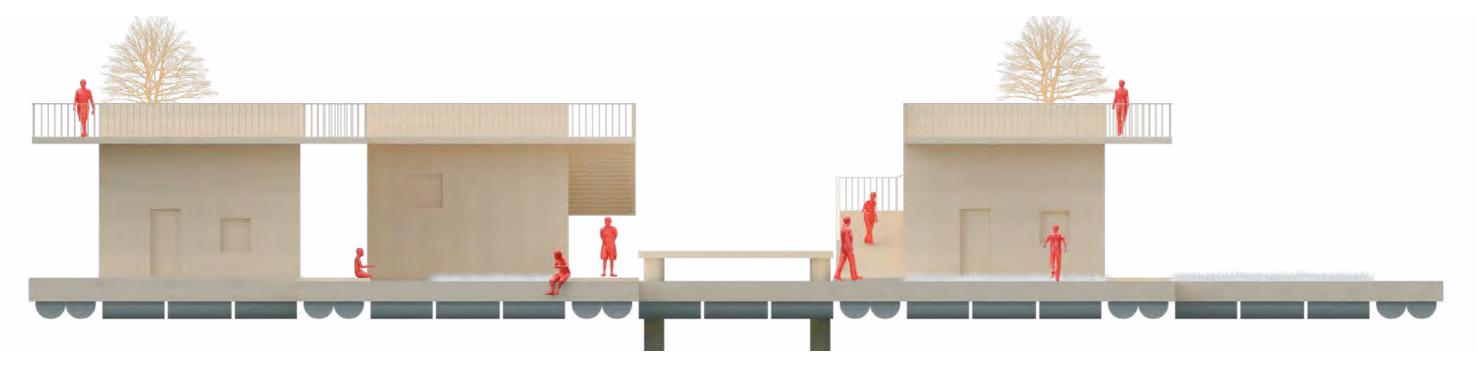








SECTION 1:100



Elevation 1:100

### Material

Precast rammed earth facade





https://www.rammedearthworks.com/pre-cast-rammed-earth/5

Prefab CLT structure



https://www.orga-architect.nl/nieuws/clt-het-nieuwe-beton/

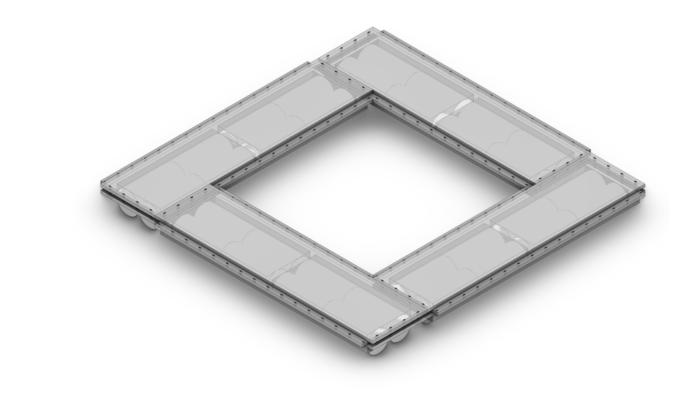


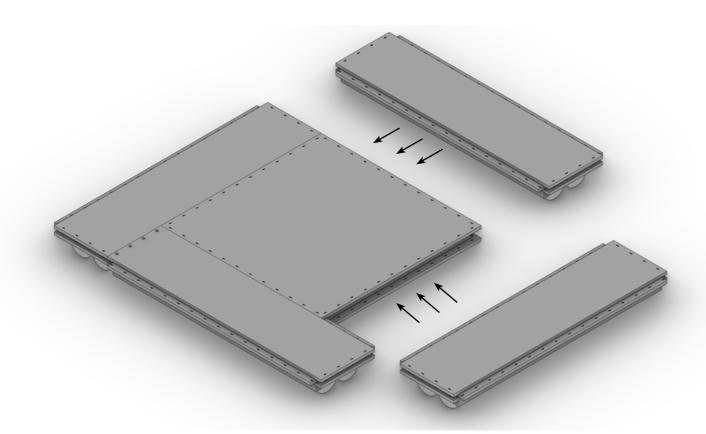


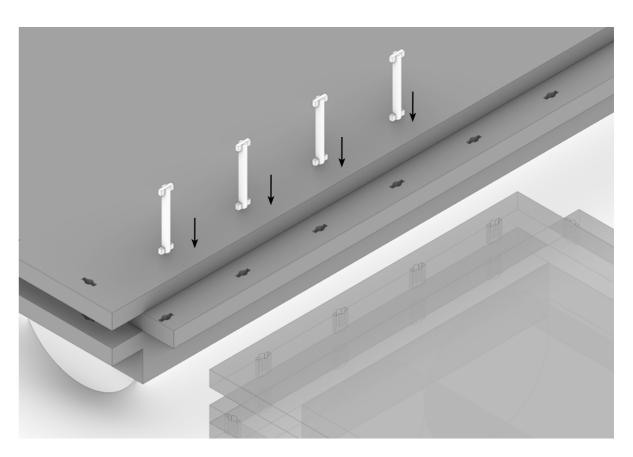
https://blog.ecoratio.com/high-quality-precast-concrete-panels

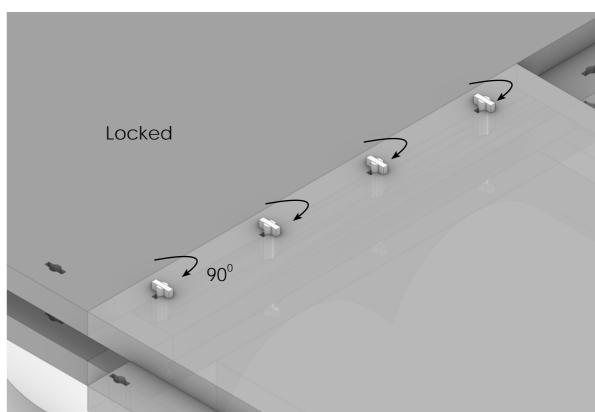


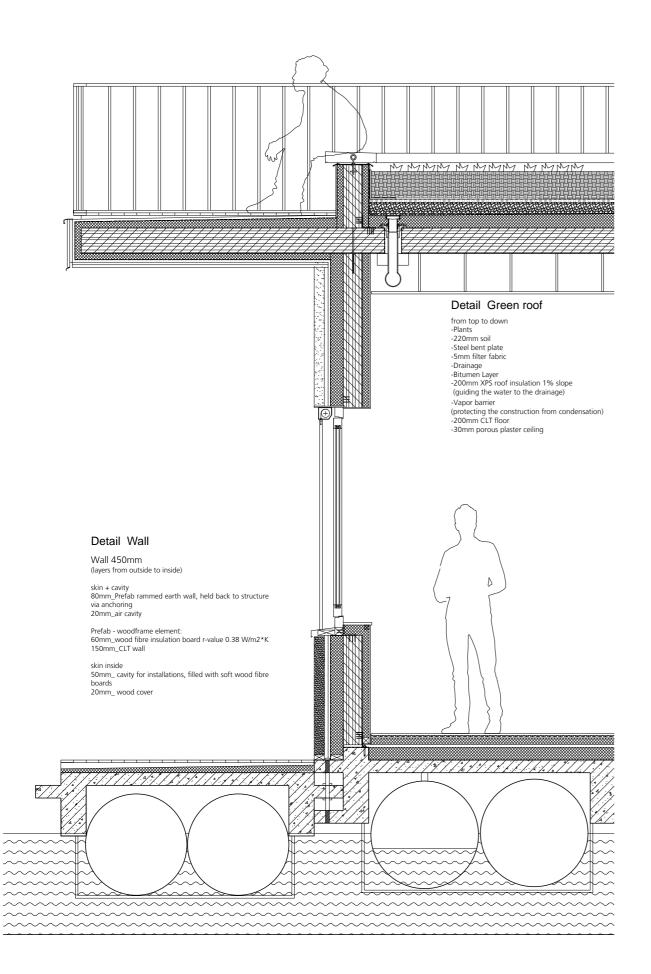
https://blueplanetrecycling.ca/materials-we-recycle/plastic-recycling/hdpe-pails-buckets-barrels-drums-ibc-totes/



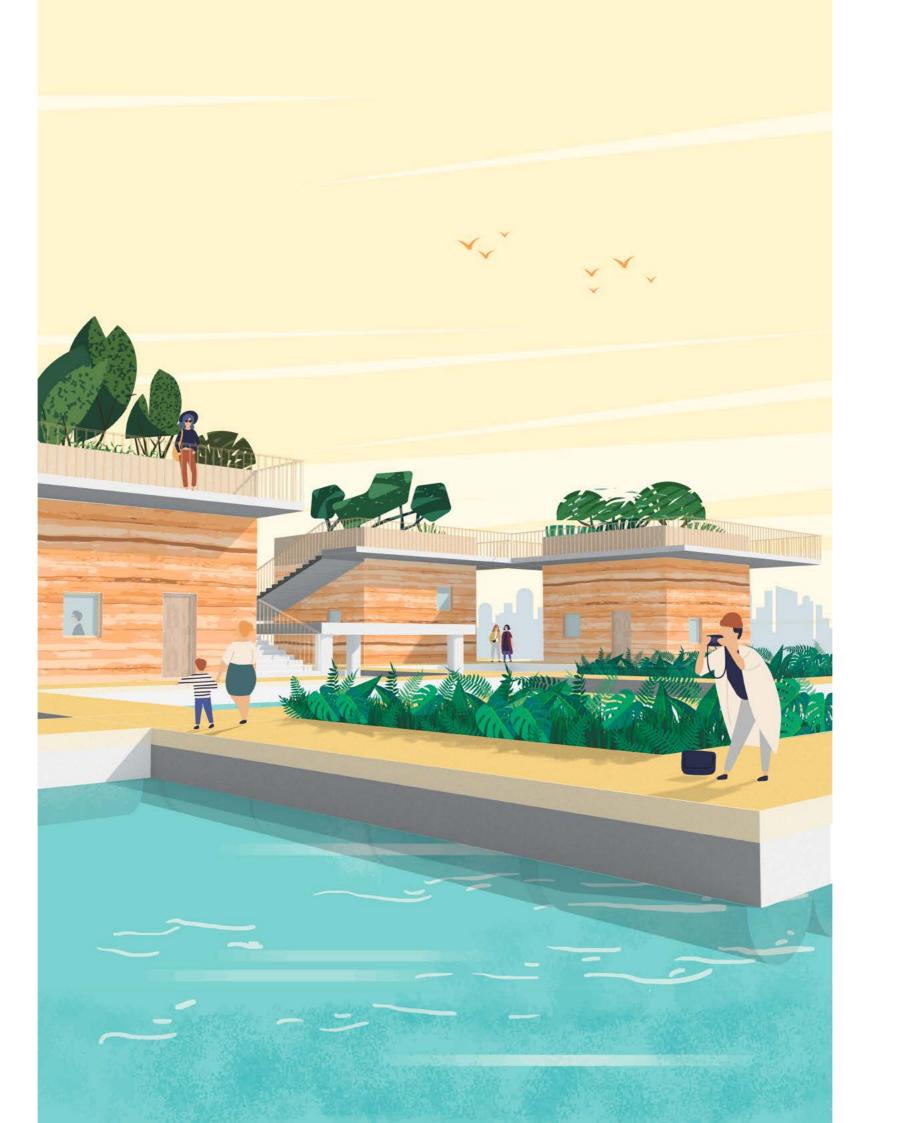












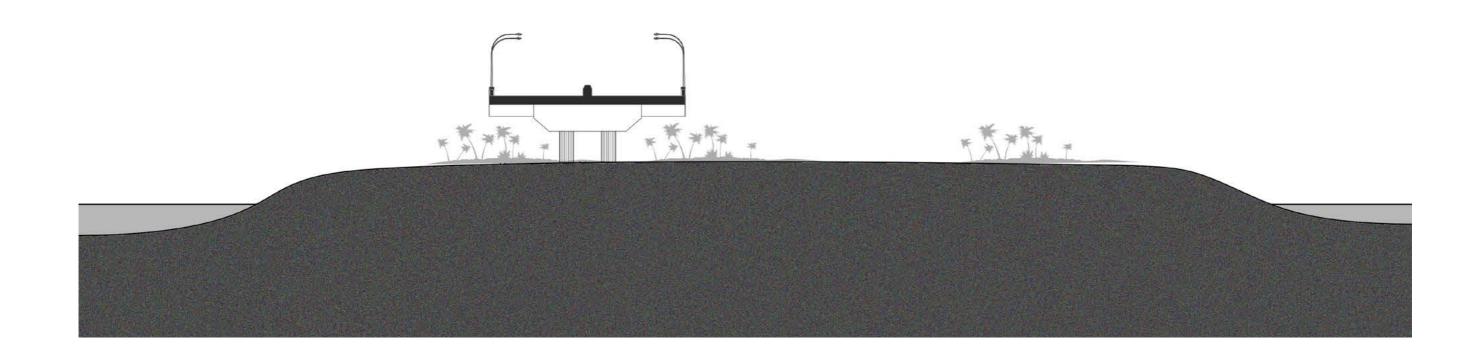


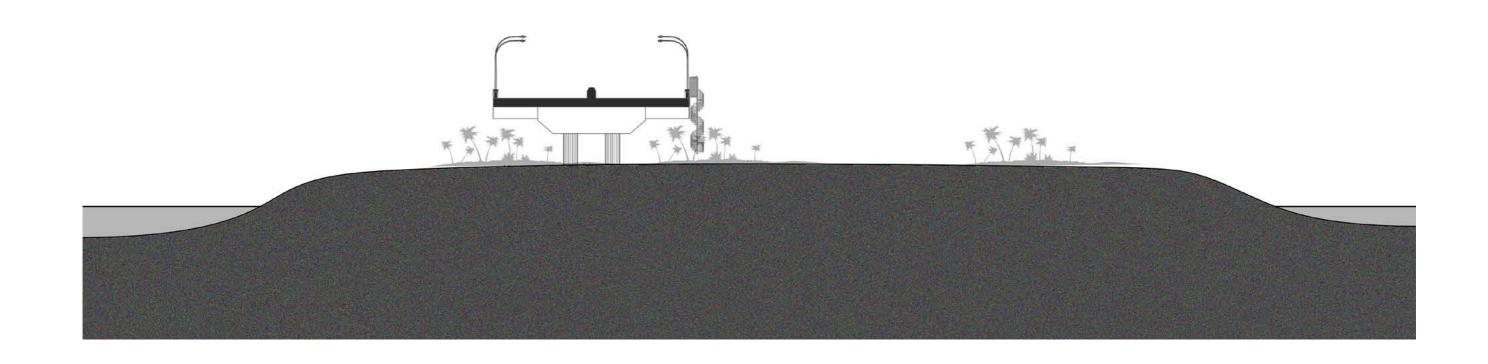


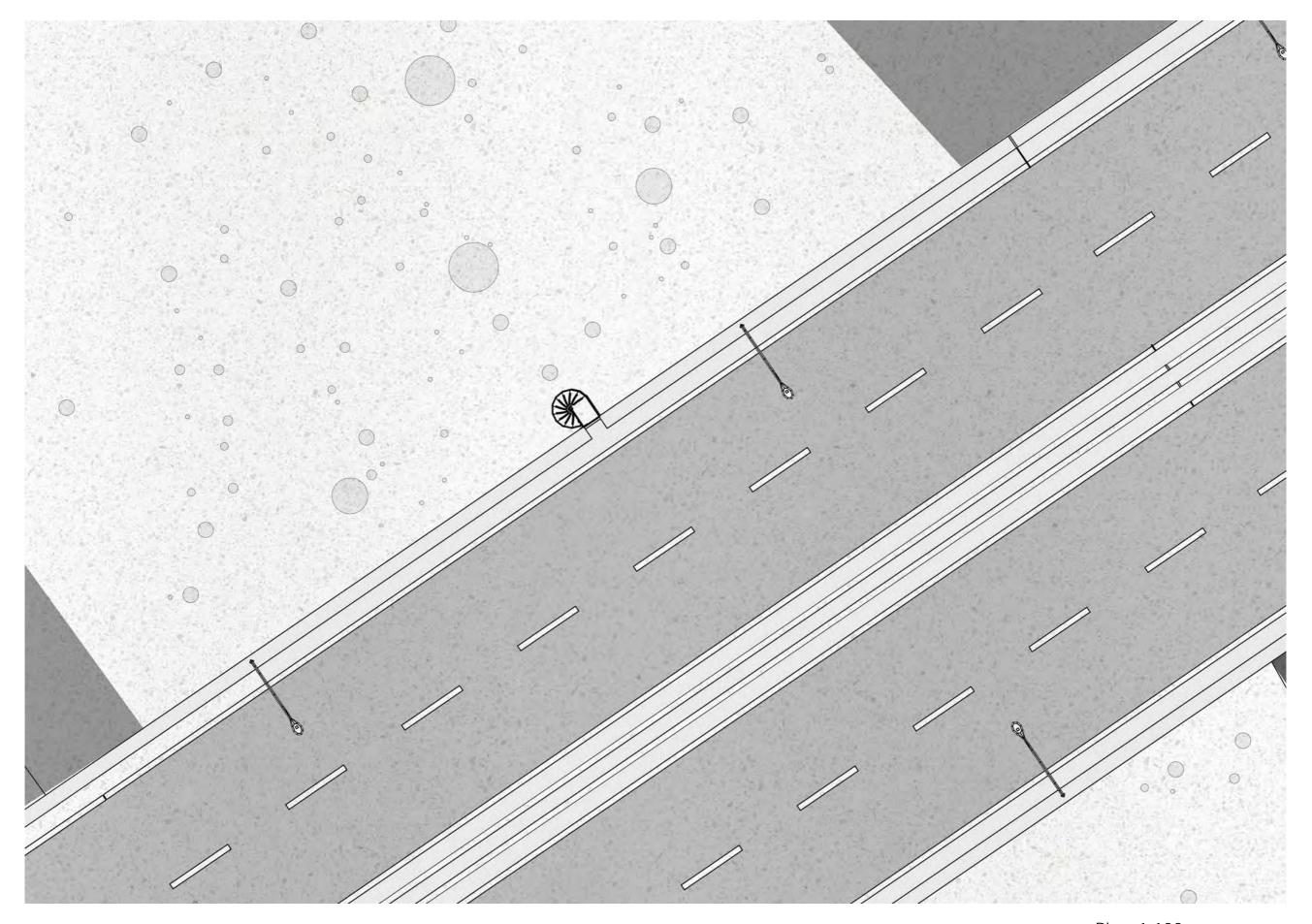
# **DESIFN IV**

IV. Achitecture as a medium
The Endless Stair



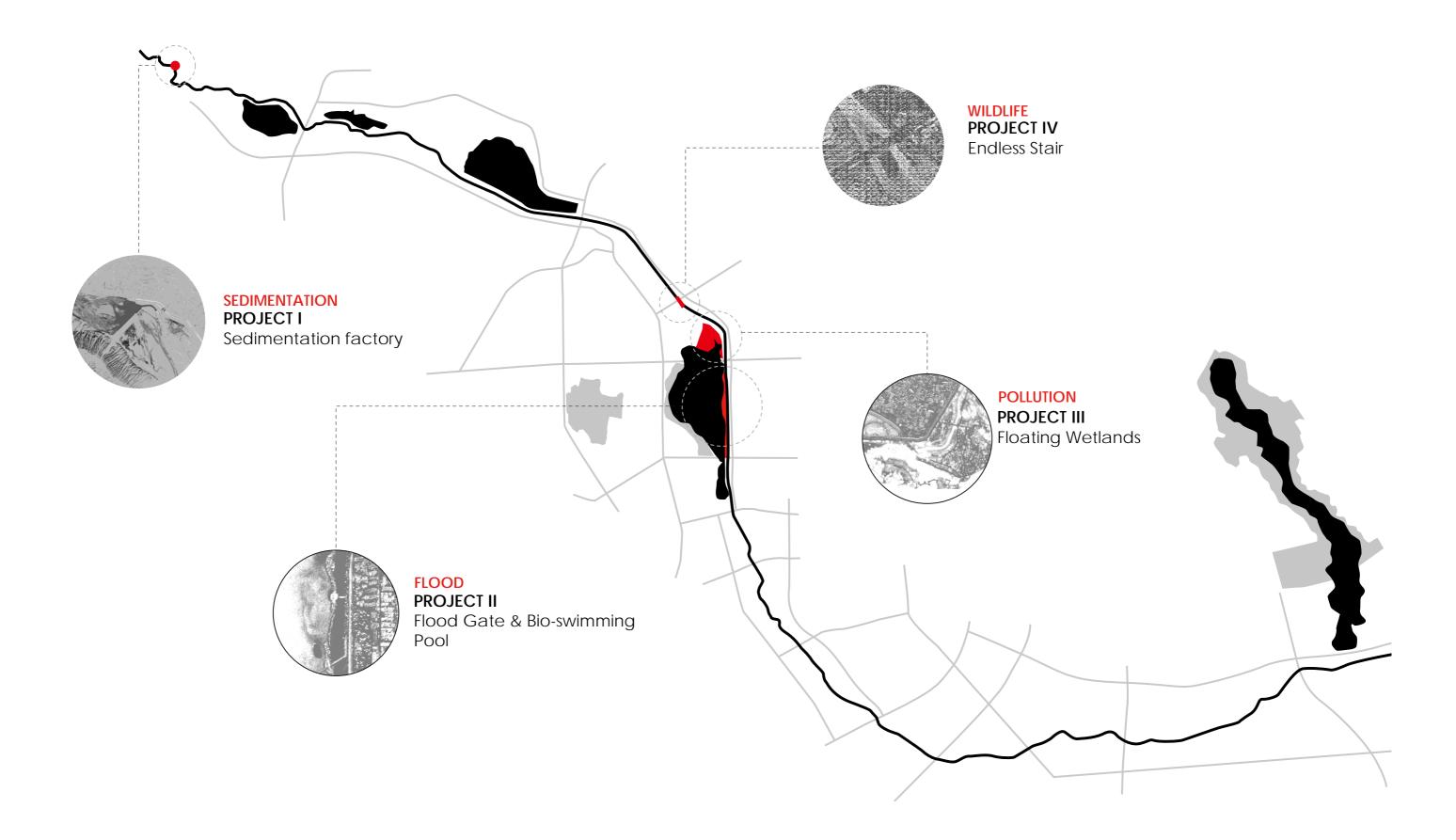






Plan 1:100





### A LANDSCAPE POEM

