

# Demology. Typology from demolition



1. Demolition

2. Typology

3. Demology



“The future is but obsolete in reverse“

Vladimir Nabokov

70 %

30% : CDW

All waste



95 % CDW not recycled

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China



Concrete debris in New York  
since 1989

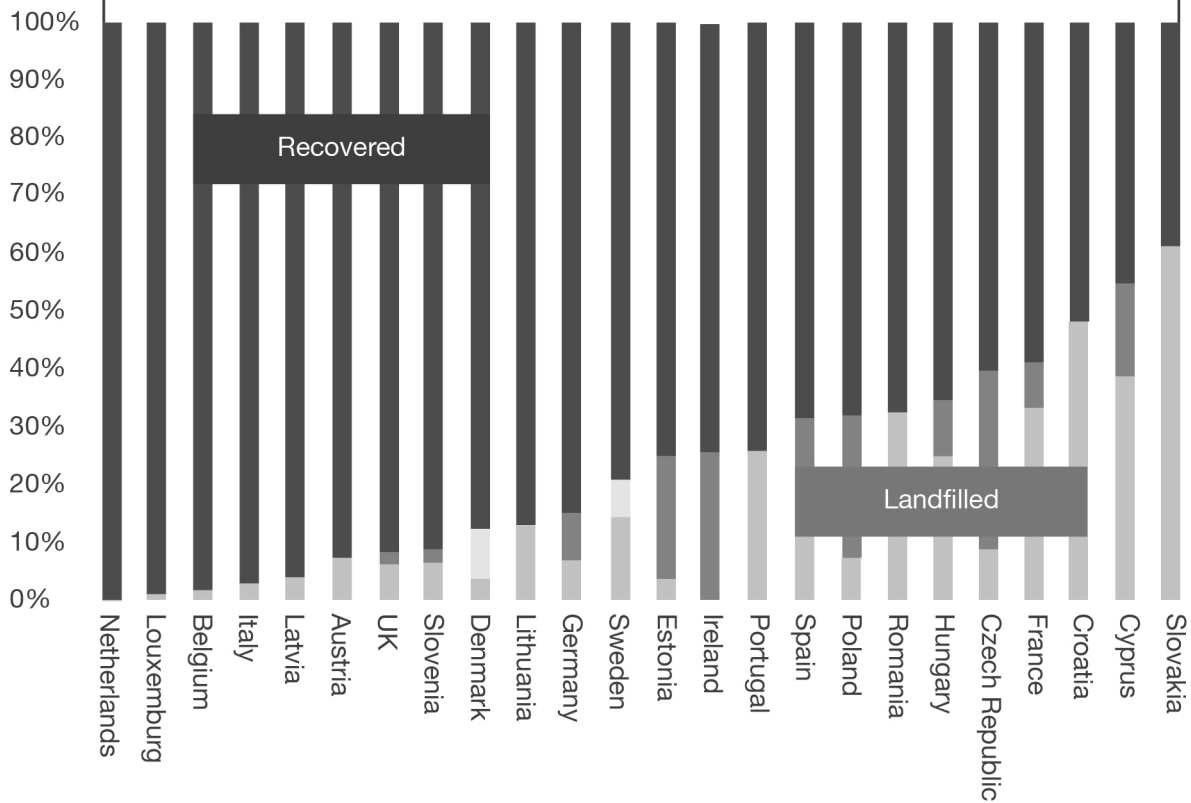
8 million tonnes of CDW  
per year

**461** million  
tones  
per year

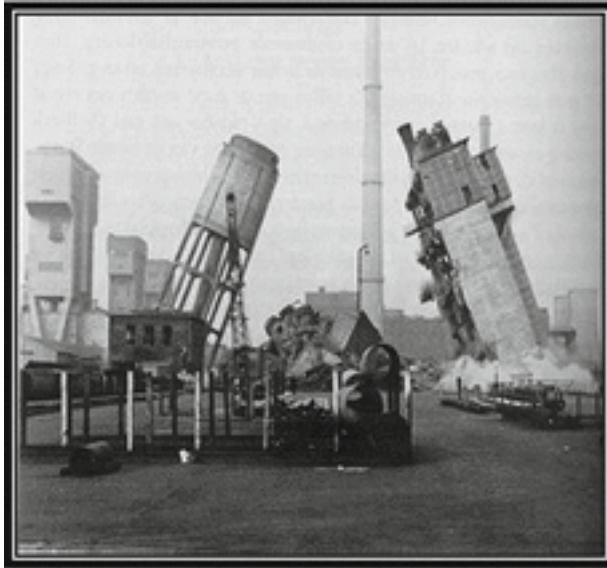
CDW produced in Europe

NETHERLANDS  
 Disposal cost with  
 landfill tax :  
**182**  
 eur/tonne<sup>8</sup>

SLOVAKIA  
 Disposal cost with  
 landfill tax:  
**22**  
 eur/tonne<sup>8</sup>







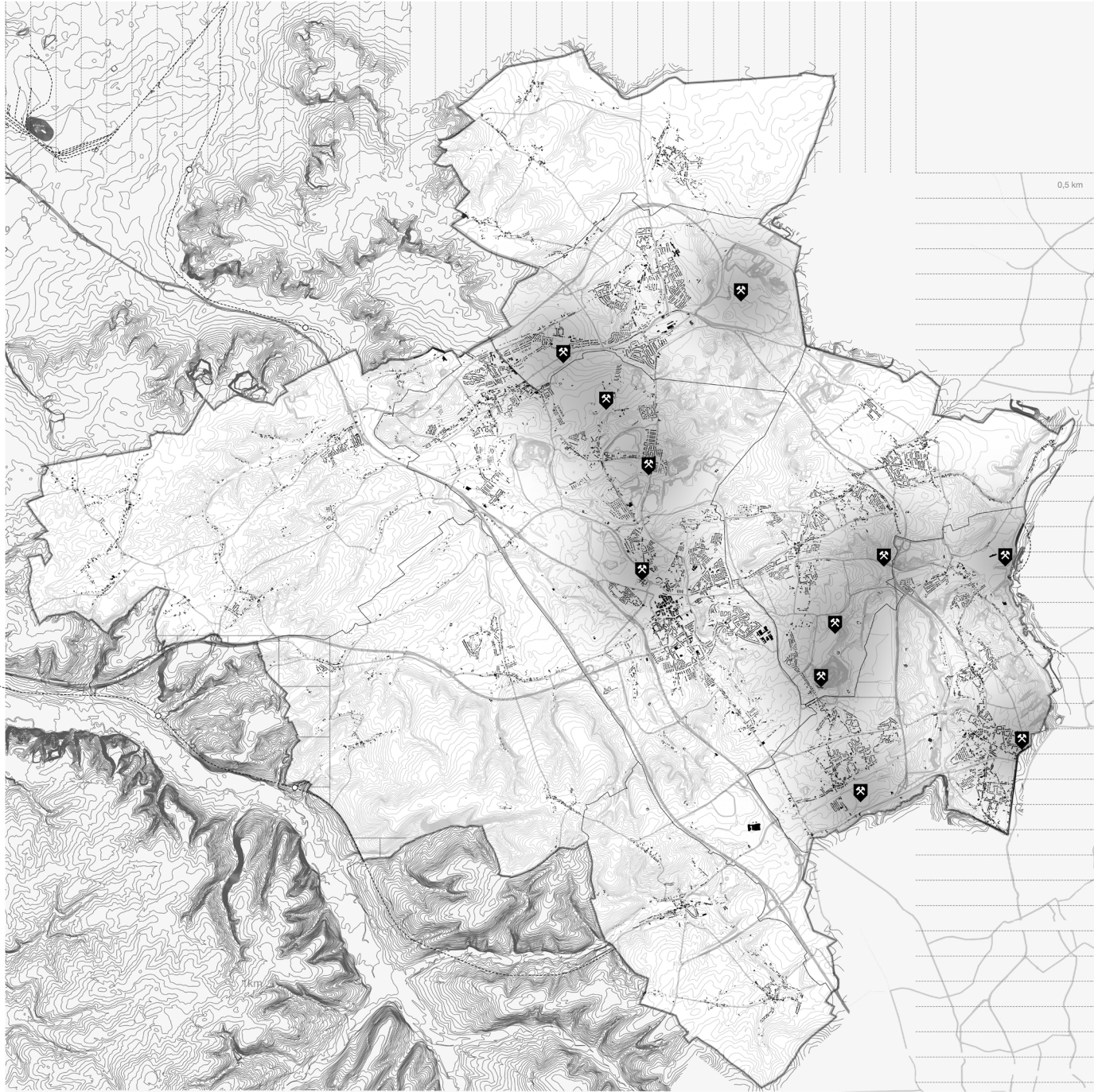
The Maurits Mine

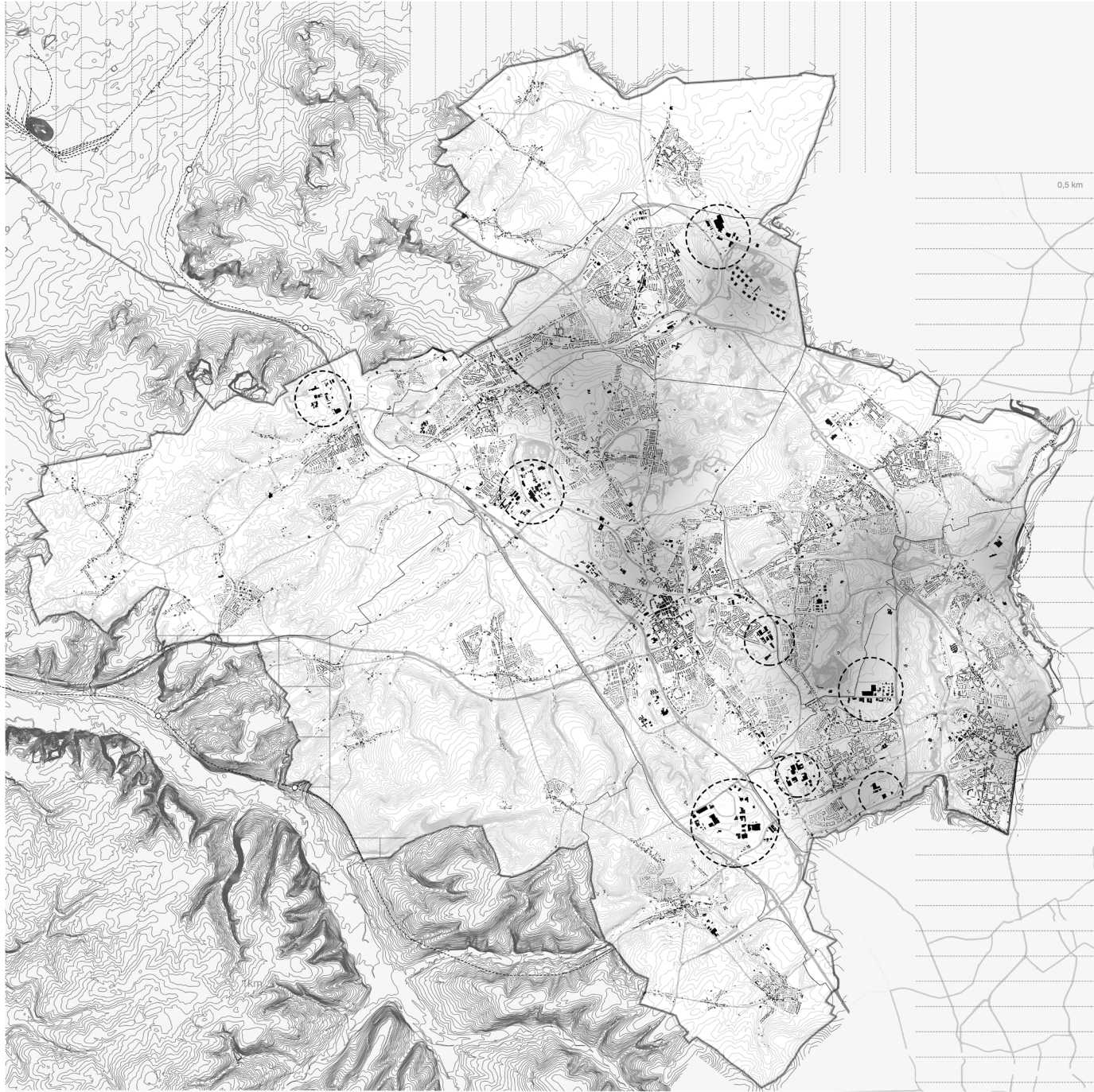


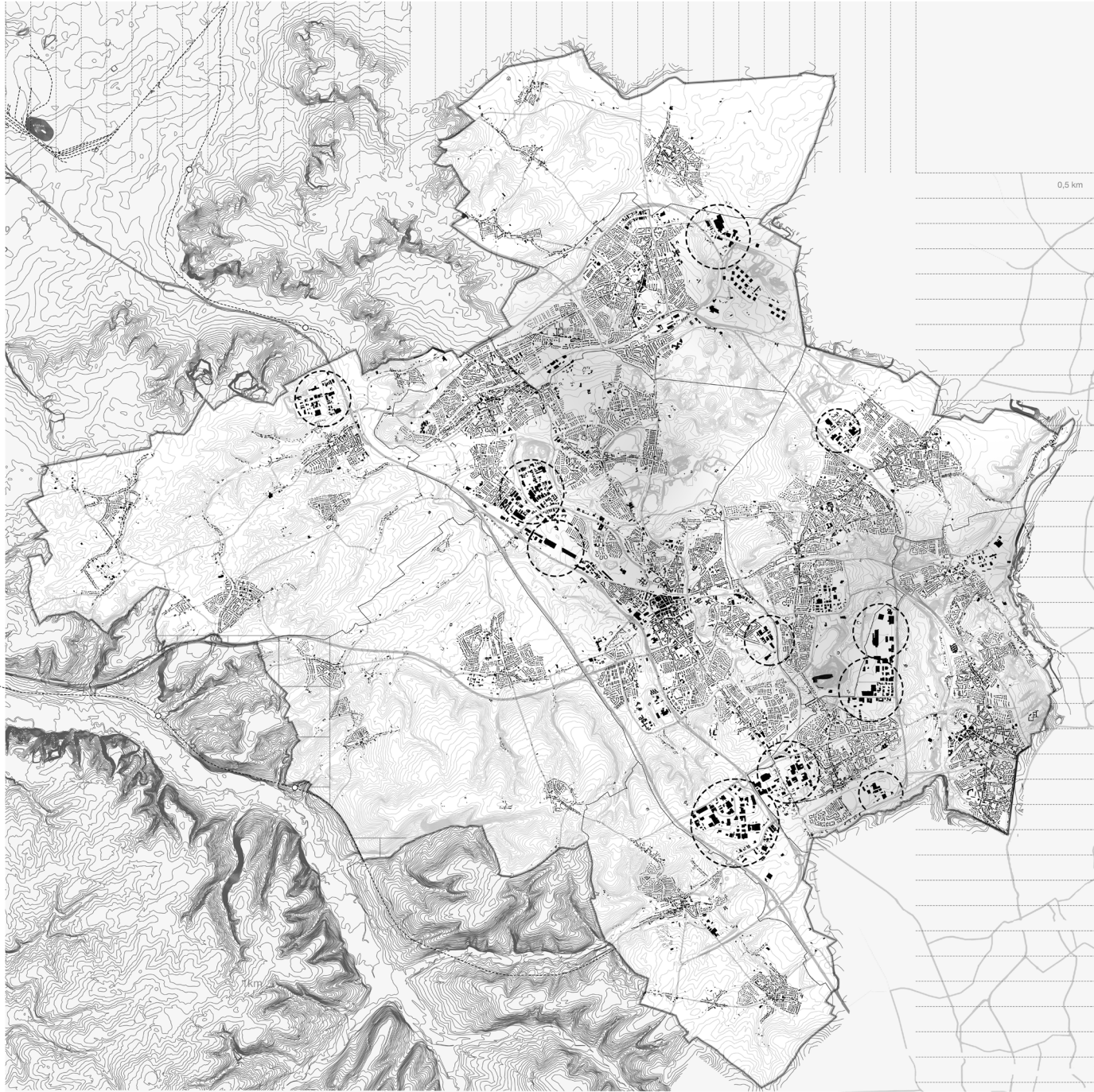
The Emma Mine

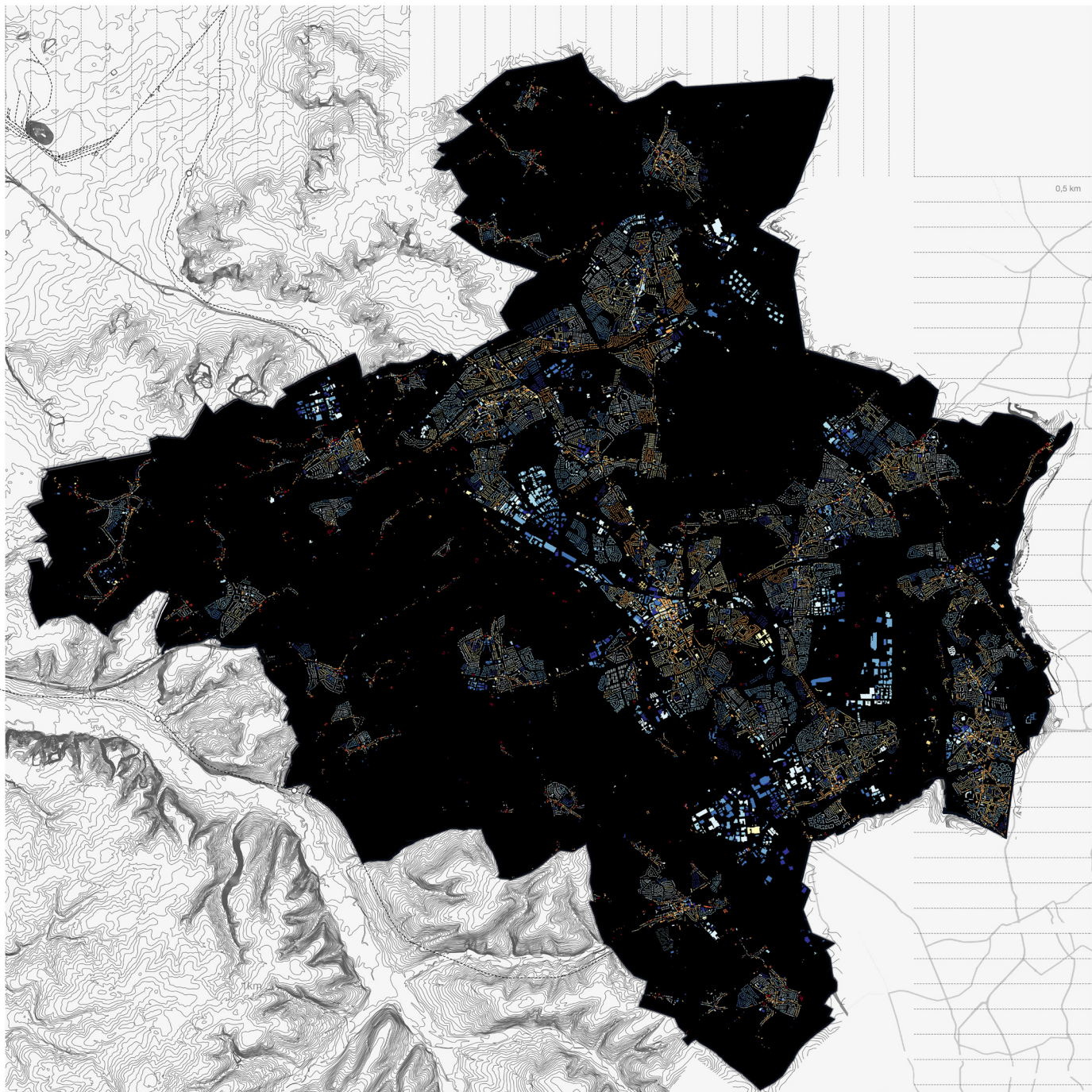


COAL MINING >>>> URBAN MINING





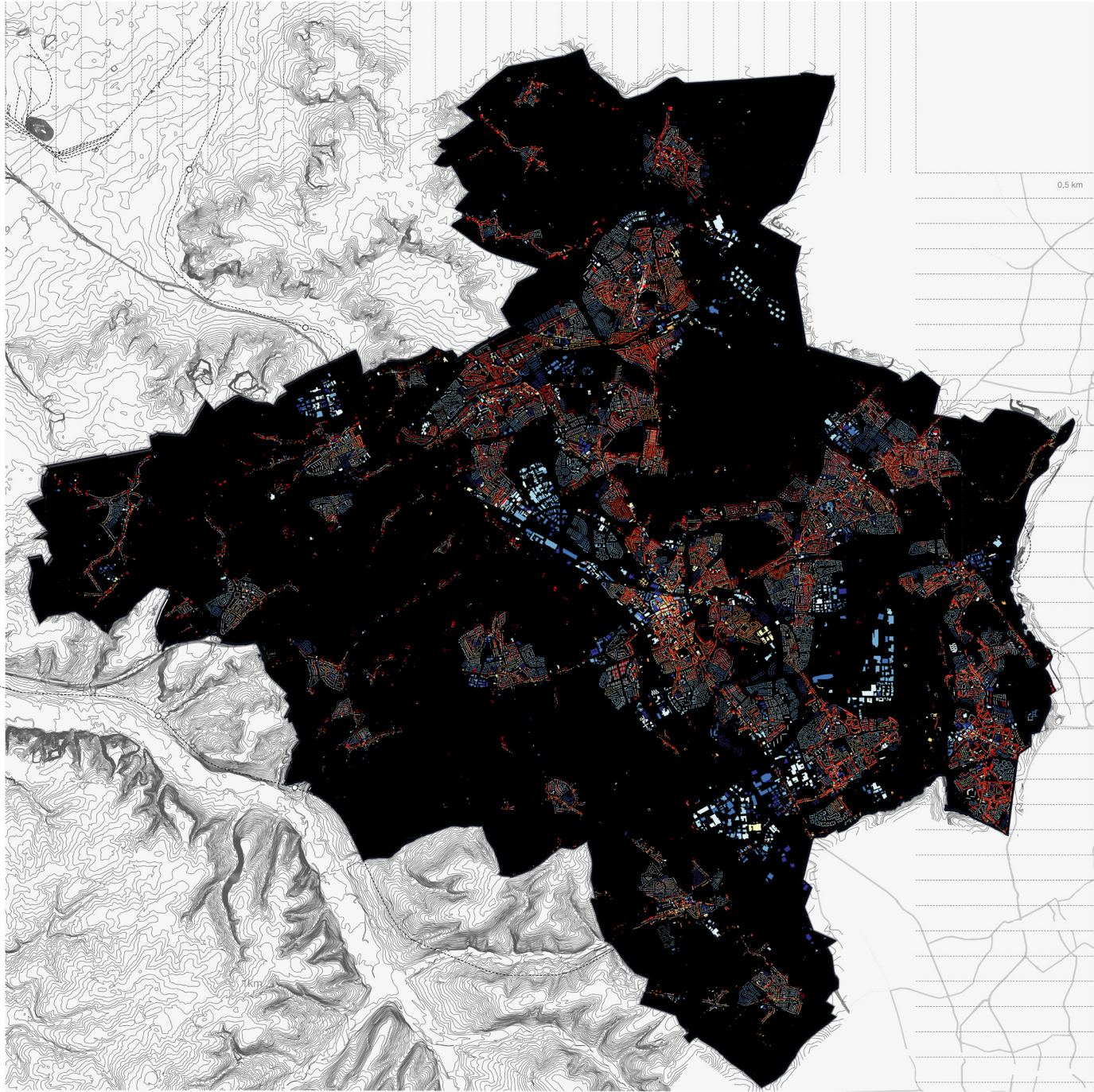


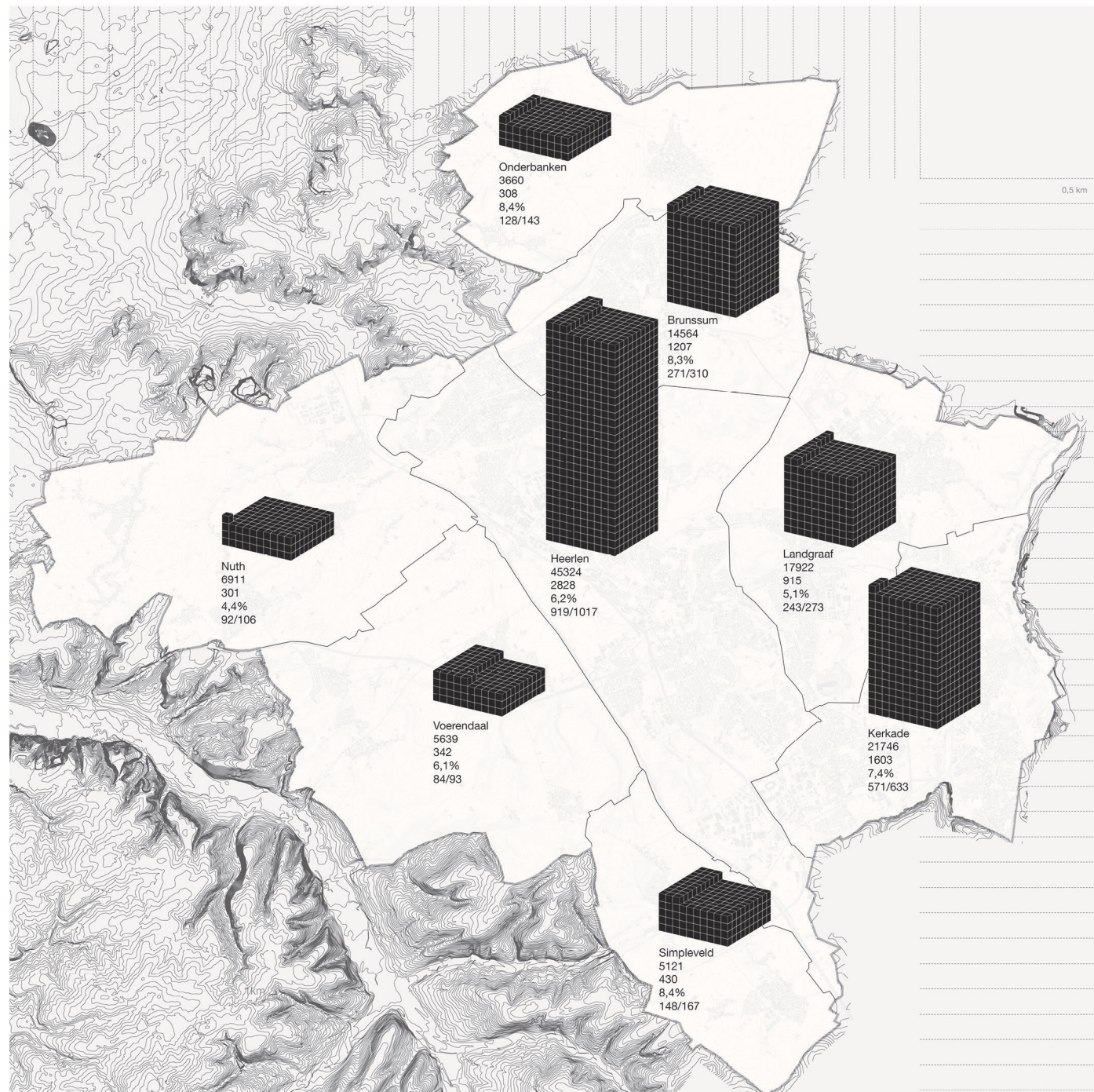


Legend

- 1900 - 1930
- 1930 - 1945
- 1945 - 1960
- 1960 - 1975
- 1975 - 1985
- 1985 - 1995
- 1995 - 2005
- > 2005

■ Low energy class housing






**Brunssum**

14564 Total nr of households

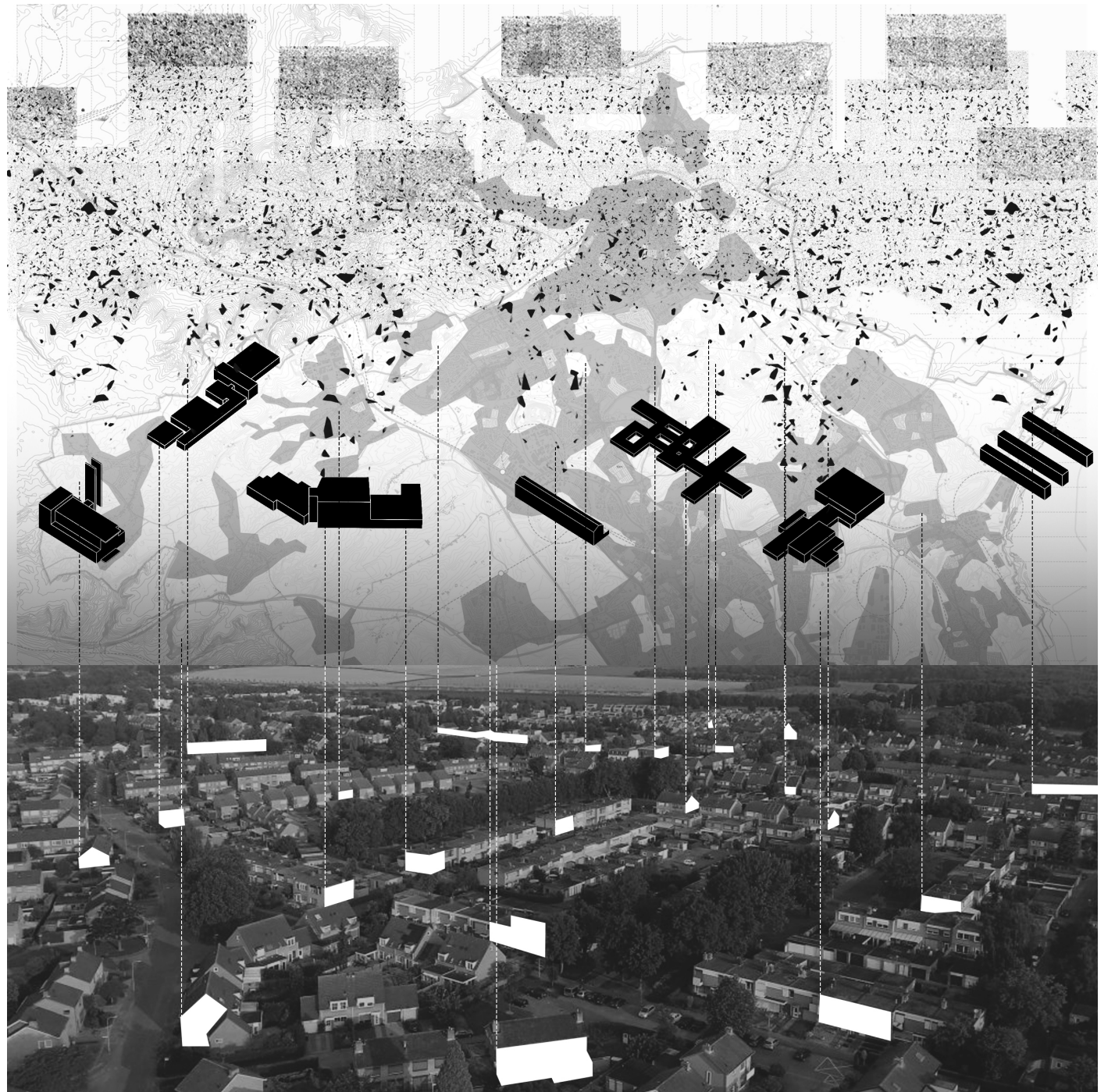
1207 Vacant homes with no energy consumption  
general % of residential vacancy

8,3%

271/310 Nr of houses vacant for over 1,5 year: low market value / higher market value

 1 vacant household:  
circa 50m<sup>3</sup> of concrete waste









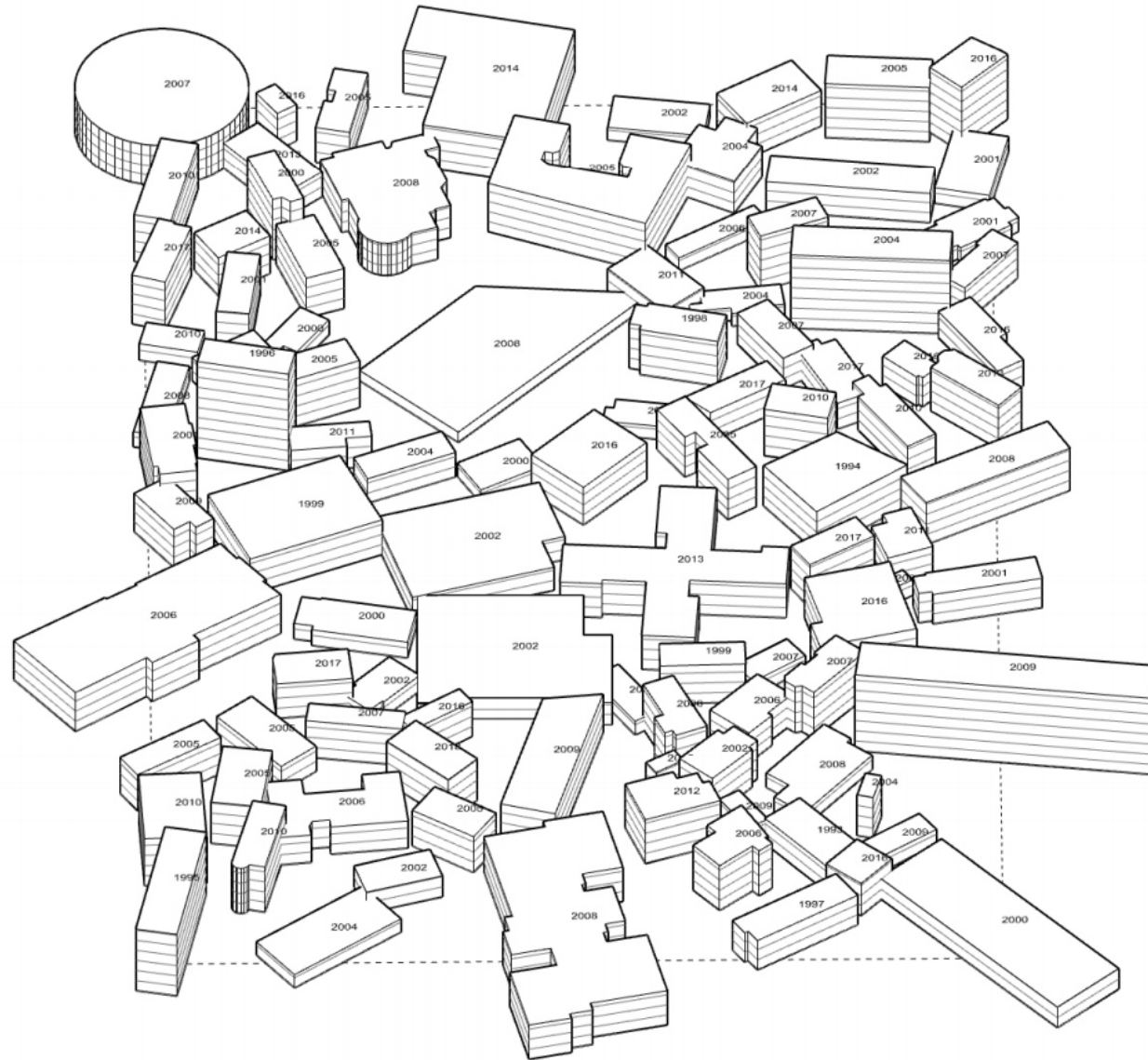
## 2. Typologies

In order to work with obsolete in reverse, with demolition and deconstruction, it is crucial to trace the tools of composition and construction, that had happened in the first place.

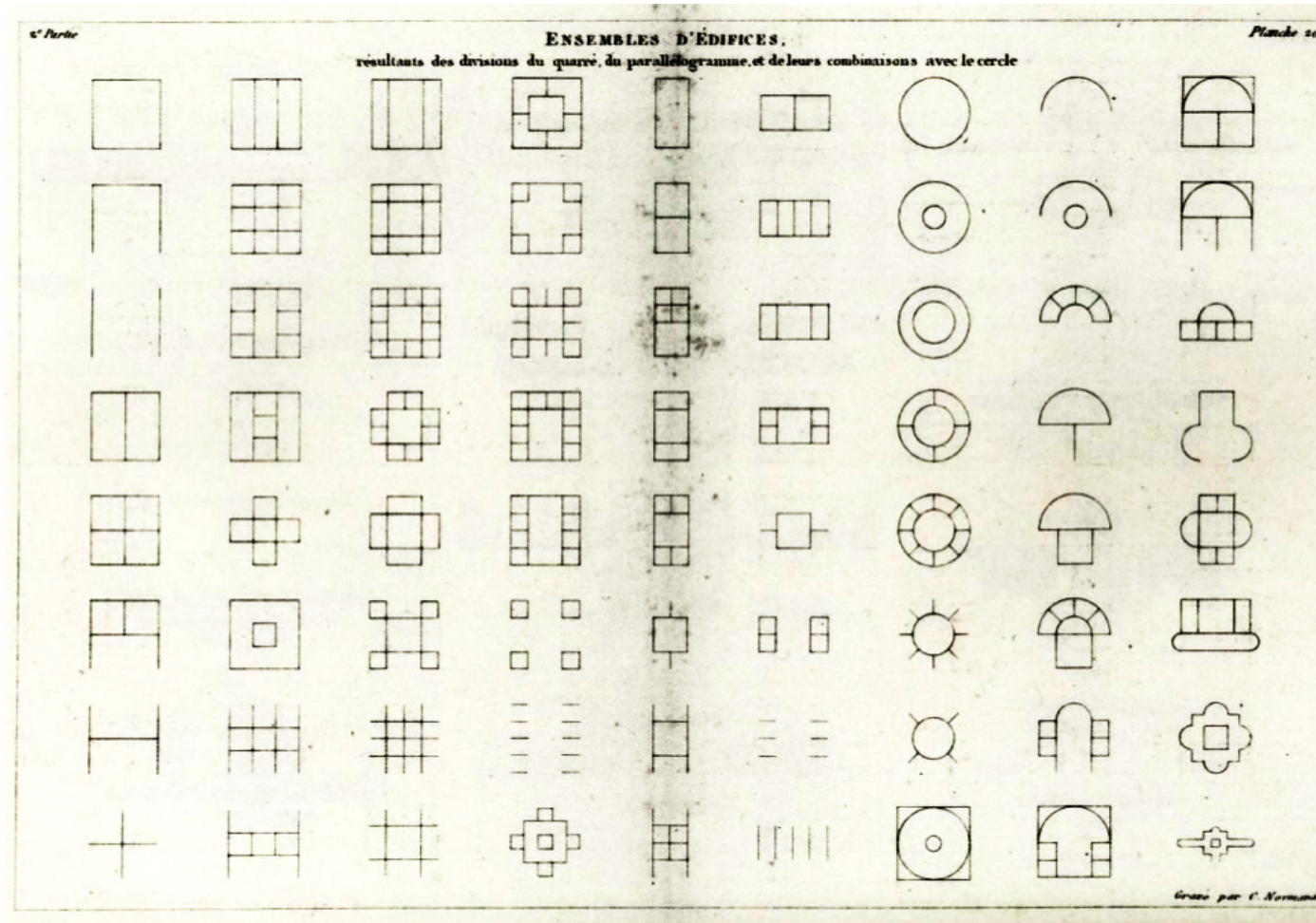
The investigation of typology appears as an intellectual and practical heuristic drive that forms the city.

Displacing the laboratory from the world, from the “out there” – allows the scientist to isolate the phenomenon from its customary context and examine it with a new setting. It is a necessary preface and a metaphor of Urban Mining itself.

The exploration of typologies, tracing their origins and relationships provides a model for spatial tendencies.

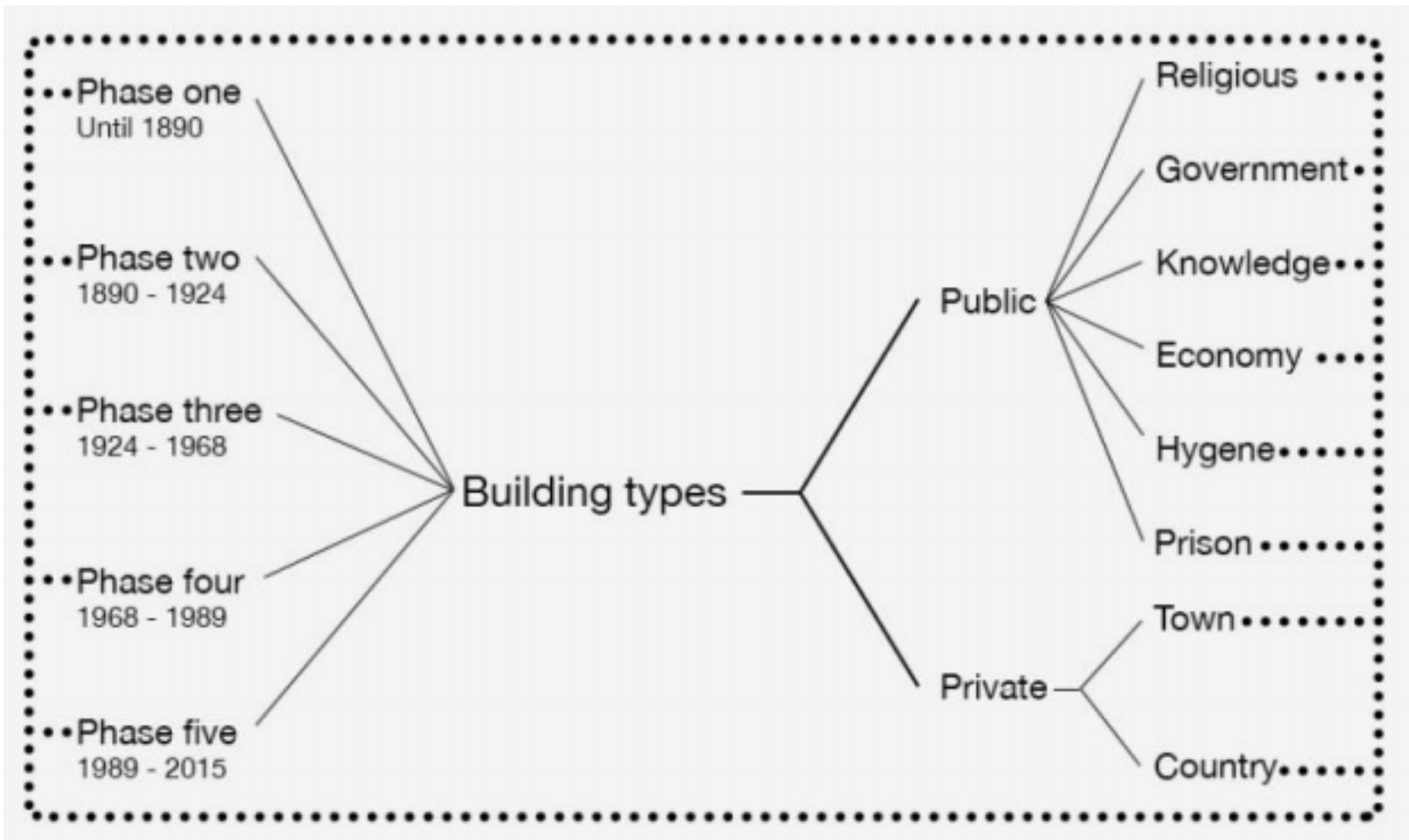


Defining the type is parallel to defining what is the typical - most common to all.



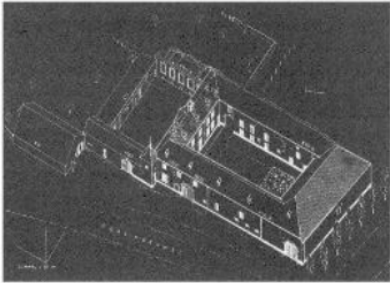
## Jean Louis Durand

Similar to Durand, my ambition is to compare different buildings as a group, in series, to expose general principles, binding them as a type.



Durand's Recueil from 1799 proposes two main types of classification: historical and functional.

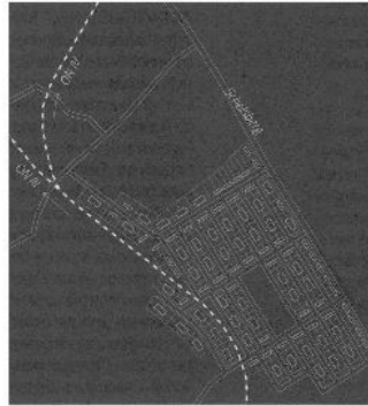
Phase one  
Until 1890  
Facilities of agriculture



Farm house/ Terlinden

Realisation: 17th century  
Investor: unknown  
Architect: unknown

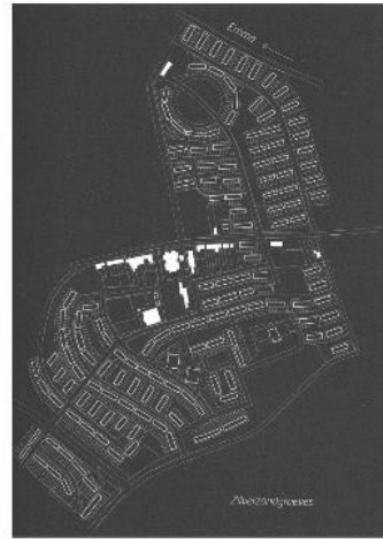
Phase two  
1890-1924  
Mining colonies



Colony/ Beersdal

Realisation: 1910-1918  
Investor: Oranje Nassau Mine  
Architect: ir. A. Lugten  
272 dwellings

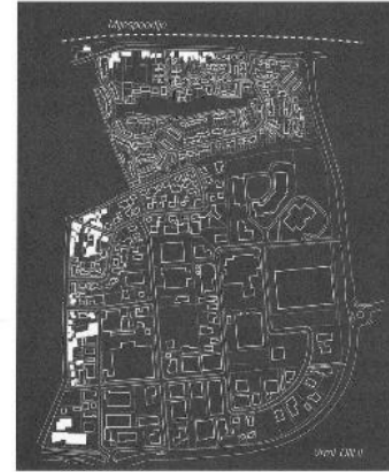
Phase three  
1924-1968  
Modern city quarters



New district/ Vrieheide - de - Stack

Realisation: 1961-1963  
Investor: Vascomij  
Architect: Peter Sigmond  
837 dwellings

Phase four  
1968-1989  
Industrial clusters



New district/ Vrieheide - de - Stack  
Industrial cluster/ Strijthagen

Realisation: 1975-1980  
Investor: unknown  
Architect: unknown  
411 dwellings: 21ha  
104 Enterprises: 51ha

Phase five  
1989-2015  
Individual initiatives and typology of multiplication

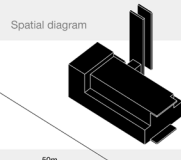


"Stamp" development/ Vruschemig

Realisation: 1990-1996  
Investor: unknown  
Architect: unknown  
109 dwellings

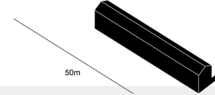






Project: H. Michaelkerk  
Location: Landgraaf  
Function: Church  
Construction: 1955  
Demolition: in the future

Concrete: 700m<sup>3</sup> 36%



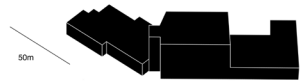
Project: Gladiolenstraat  
Location: Kerkade  
Function: Residential complex  
Construction: 1955  
Demolition: in the past

Concrete: 196m<sup>3</sup> 18%



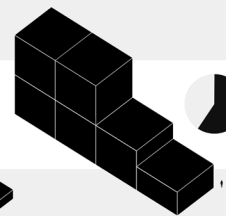
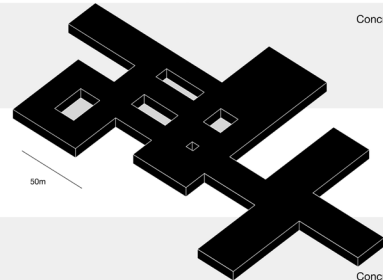
Project: Erensteinerveld  
Location: Kerkade  
Function: Residential complex  
Construction: 1960  
Demolition: in the past

Concrete: 930m<sup>3</sup> 64%



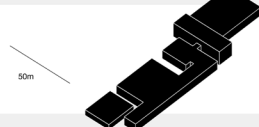
Project: Vroenhof  
Location: Kerkade  
Function: Care home  
Construction: 1975  
Demolition: in the future

Concrete: 1800m<sup>3</sup> 67%



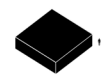
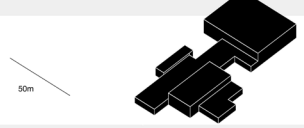
Project: Mondriaan  
Location: Heerlen  
Function: Care home  
Construction: 1994  
Demolition: halfway through

Concrete: 5614m<sup>3</sup> 58%



Project: Pijpersstraat  
Location: Heerlen  
Function: School  
Construction: 1964  
Demolition: in the past

Concrete: 449m<sup>3</sup> 57%



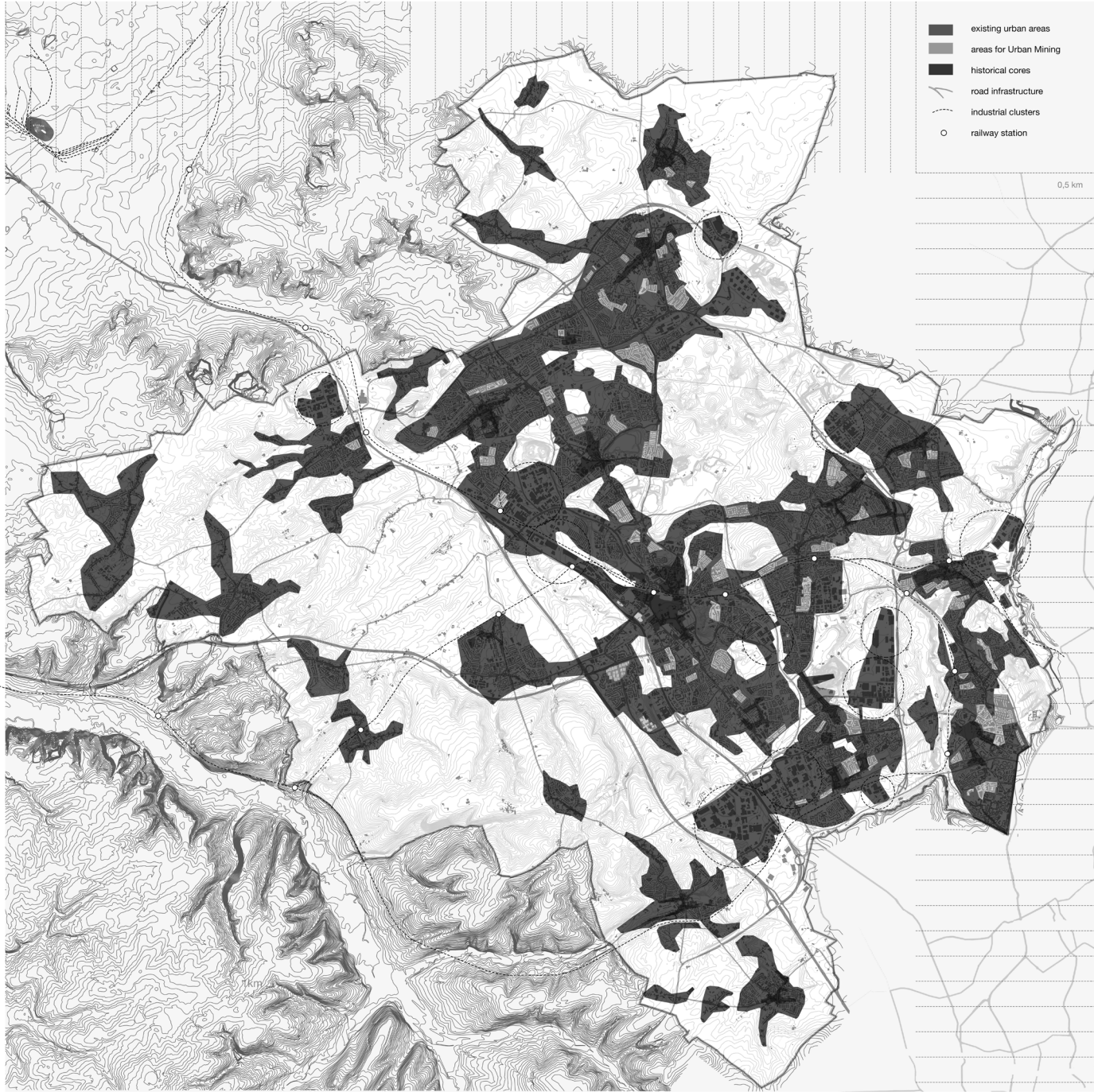
Project: In de Bende  
Location: Landgraaf  
Function: Sports Hall  
Construction: 1968  
Demolition: in the past

Concrete: 326m<sup>3</sup> 41%

residential function

similar construction system

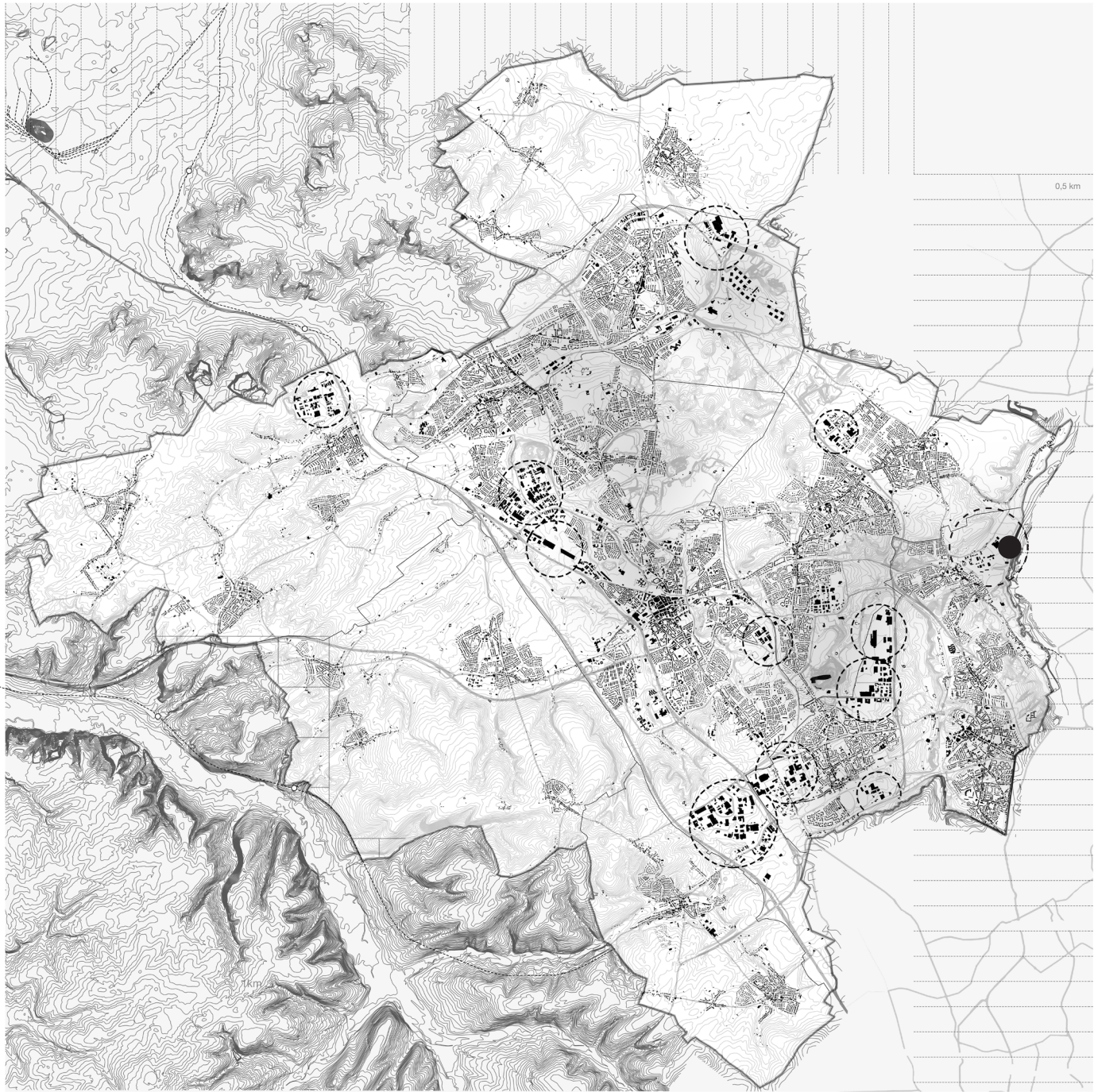
highest ratio of concrete







### 3. Demology





[request quotation](#) »



vossenberg companies

specialists in the field of transport, waste processing and recycling

transport, waste processing and recycling

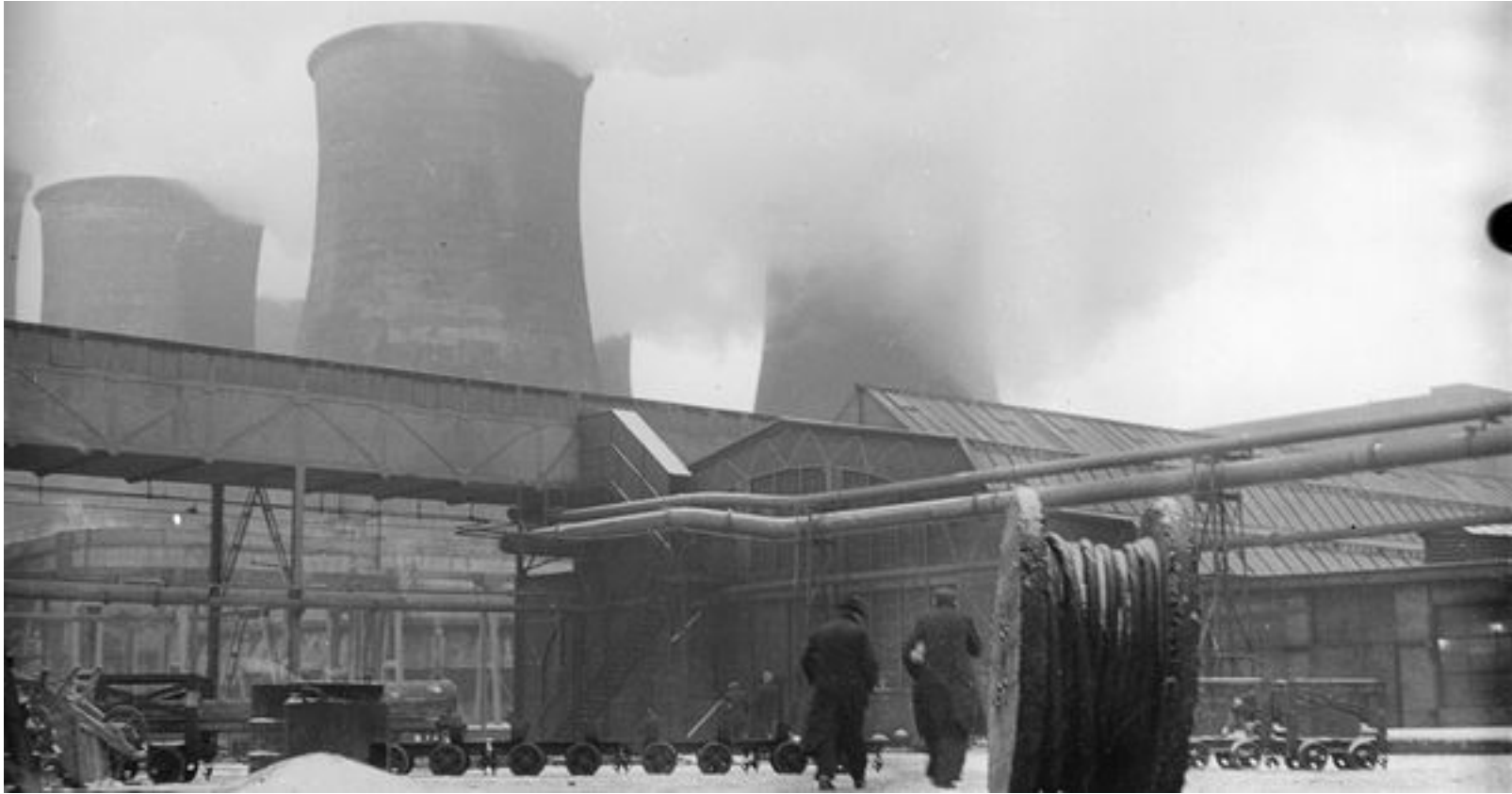
Welcome to the website of the Vossenberg companies, specialists in the field of [transport](#), [waste processing](#) and [recycling](#).

[vacancies](#)

We are looking for:

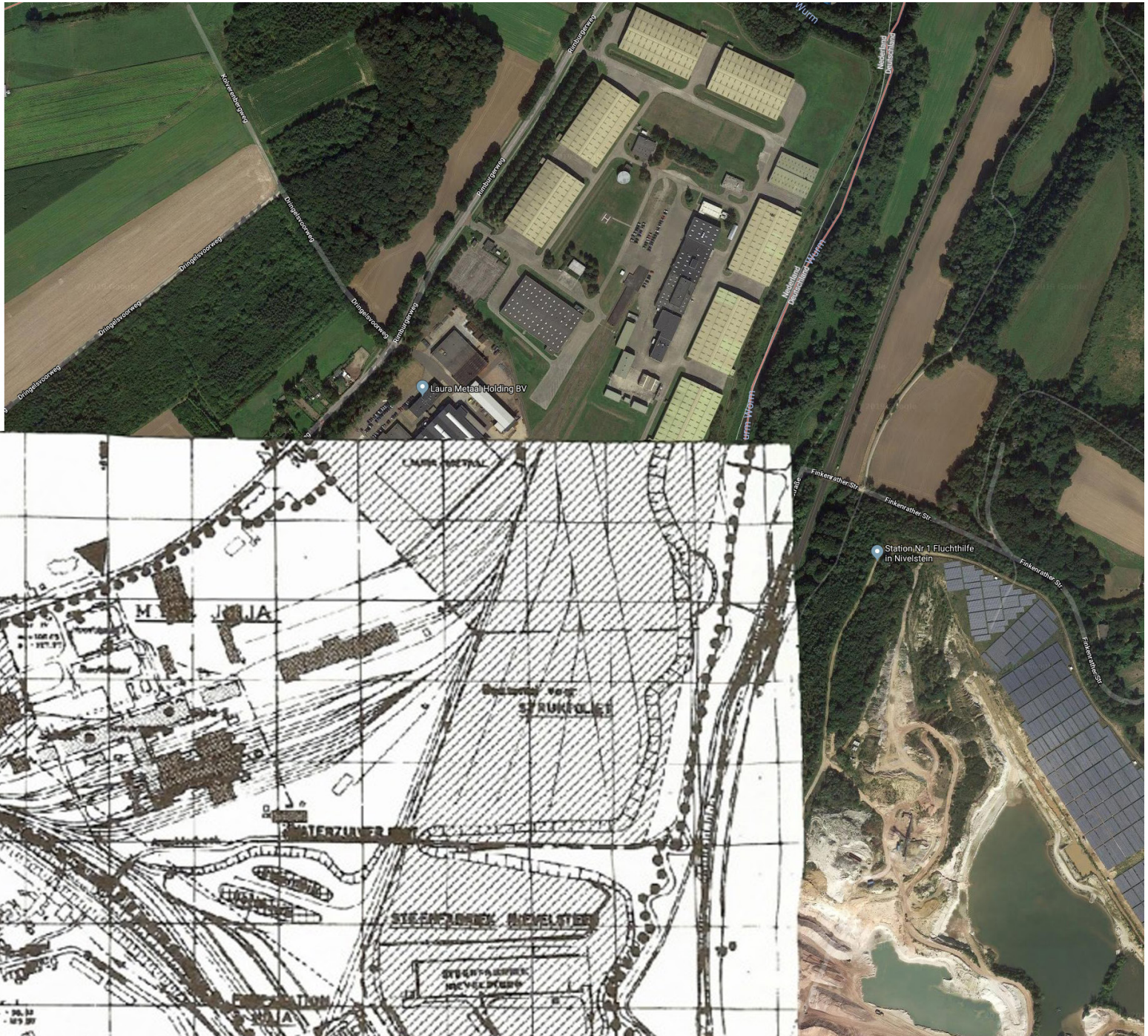
The Vossenberg companies originated from the coal trade (popularly called 'schlamm') by founder Wim Vossenberg, somewhere in the mid-60s.







Mine Julia









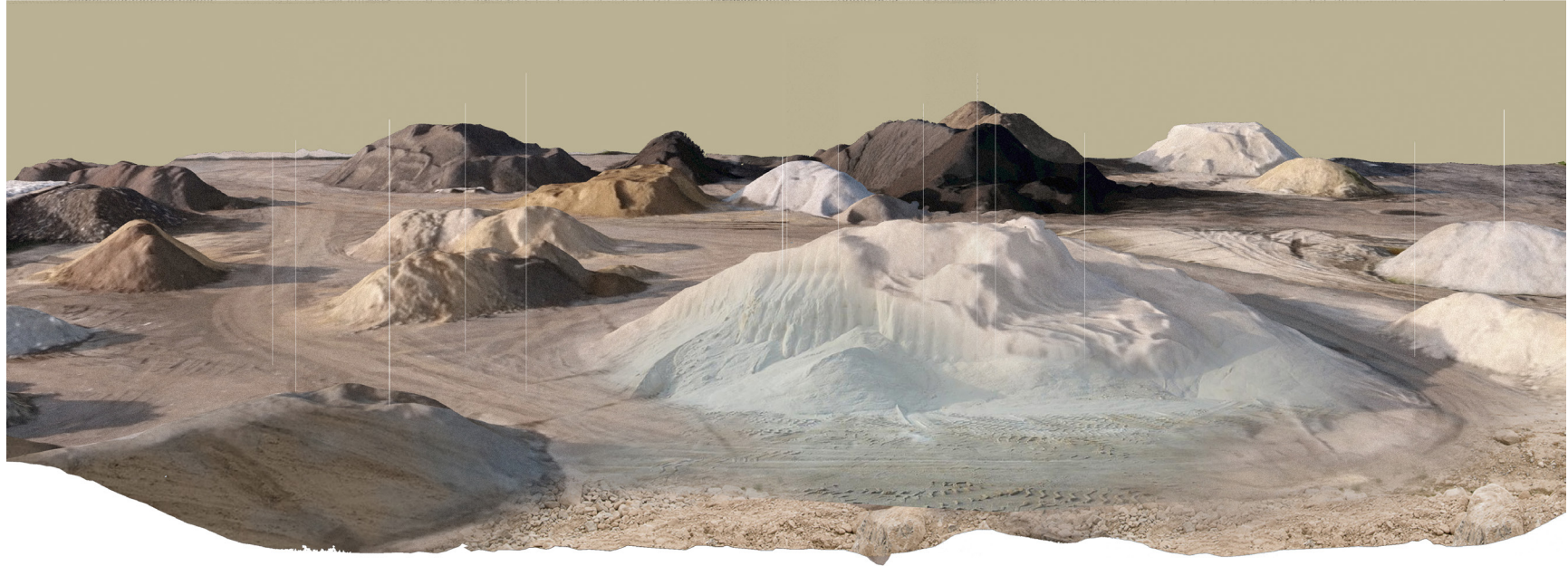
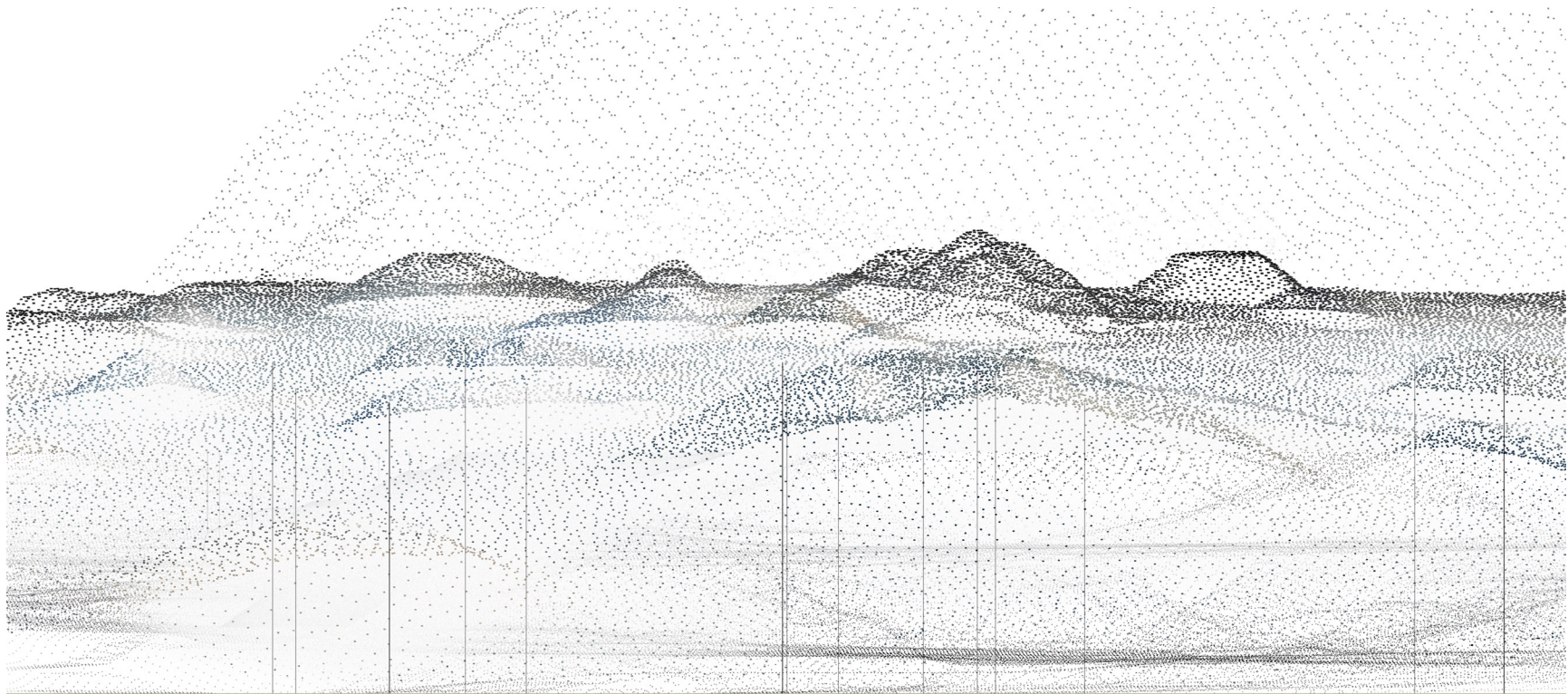
“The ~~desert~~ materialscape is either the landscape after the end of time, and therefore futuristic, or it is the surface from which nothing has yet happened and thus pregnant with all futures“

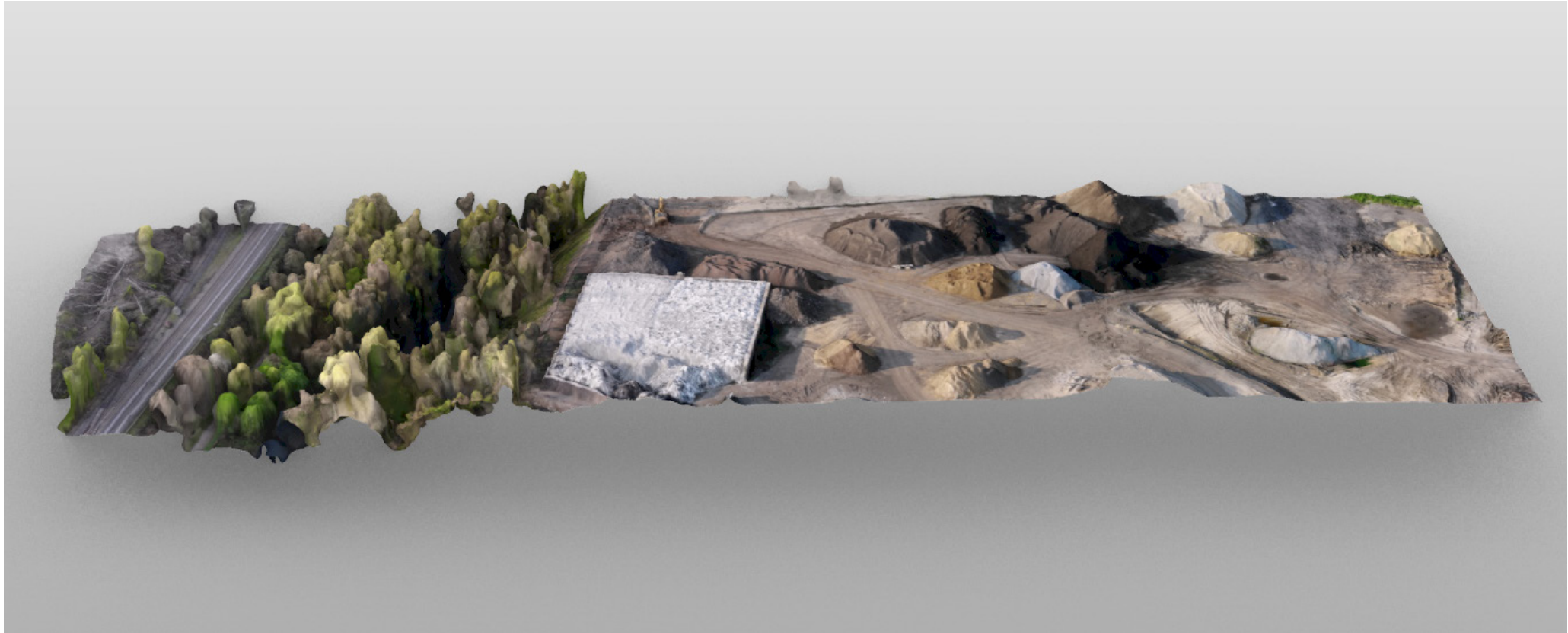
Shumon Basar

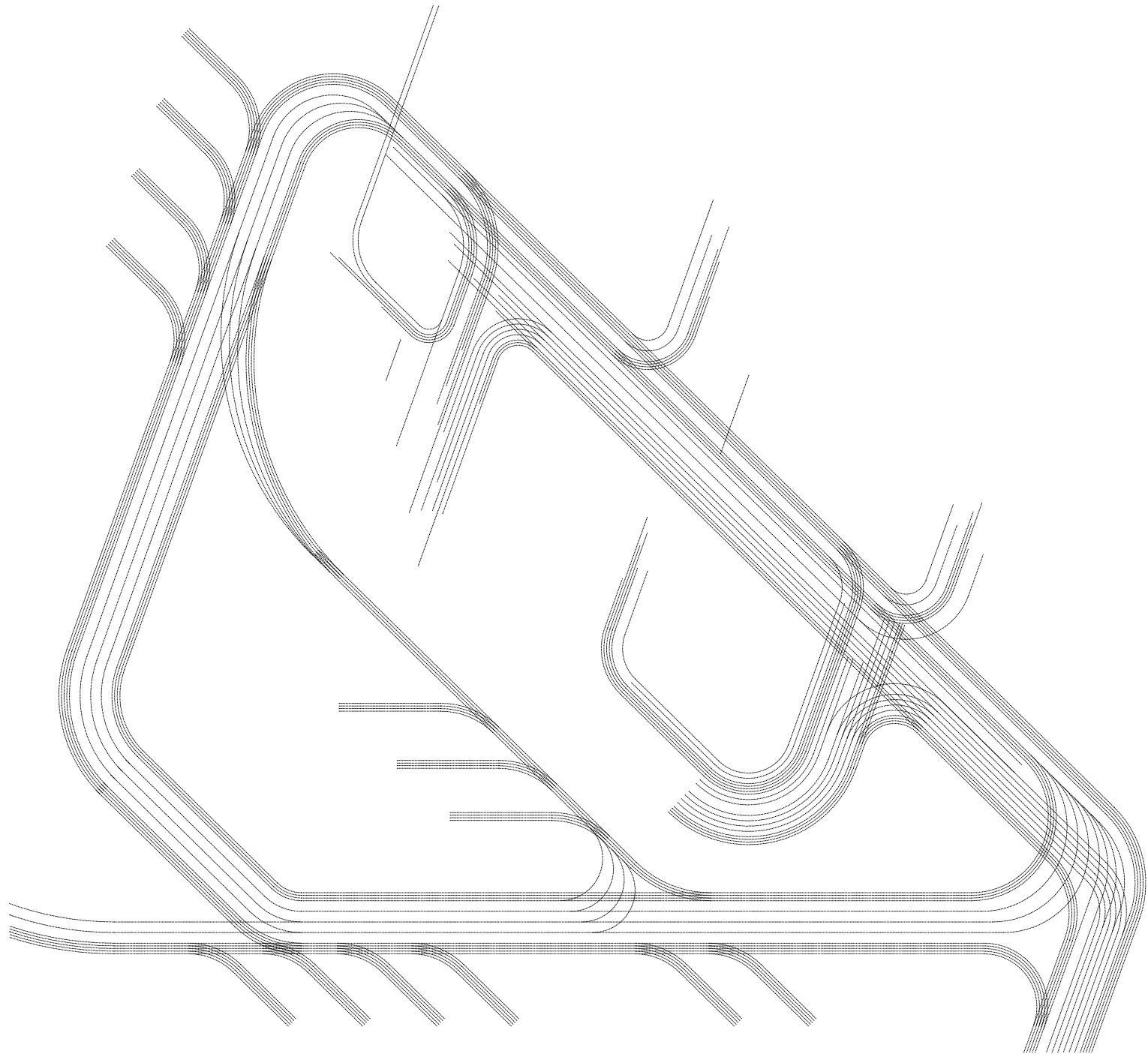










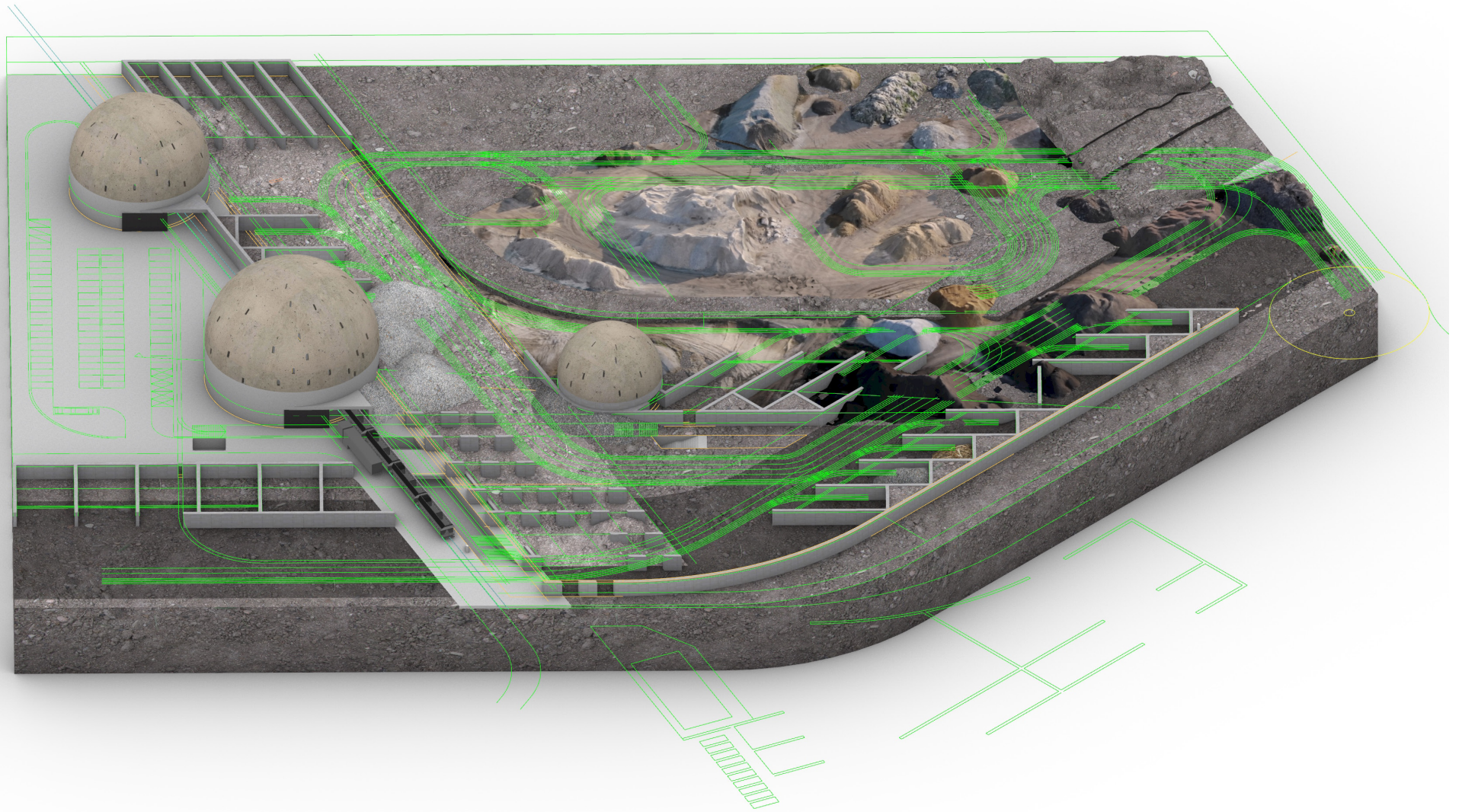






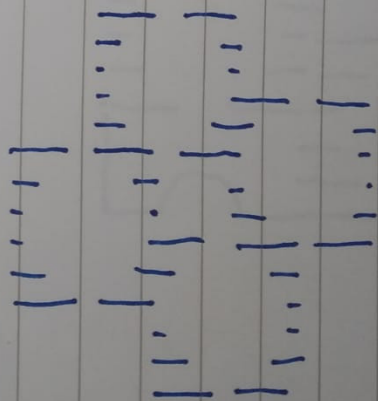
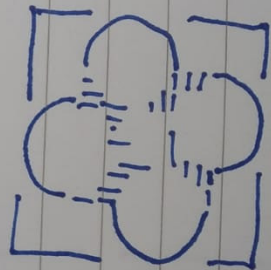
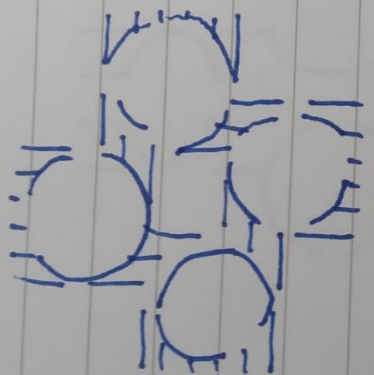
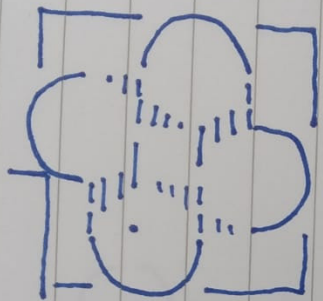
“Situating them in such a way that useful space for life may form itself amidst them“

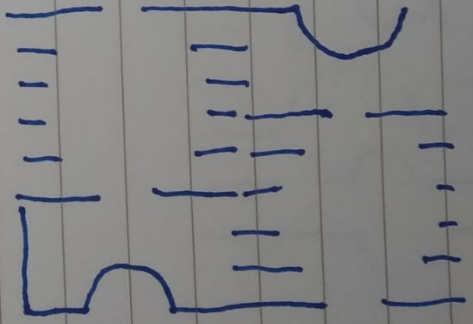
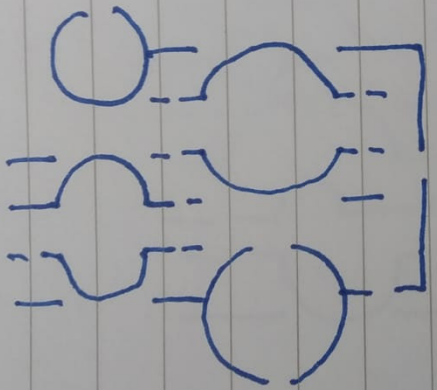
Kazimir Malevich

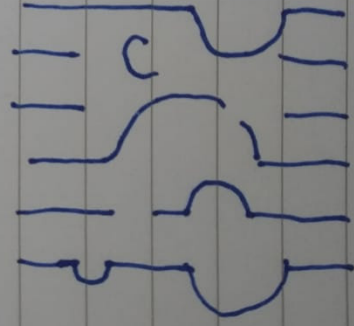
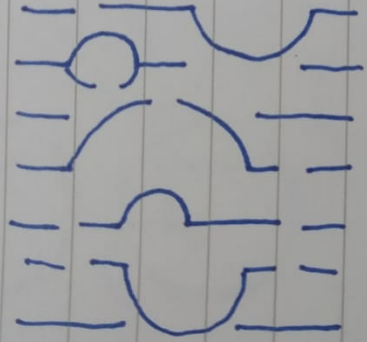




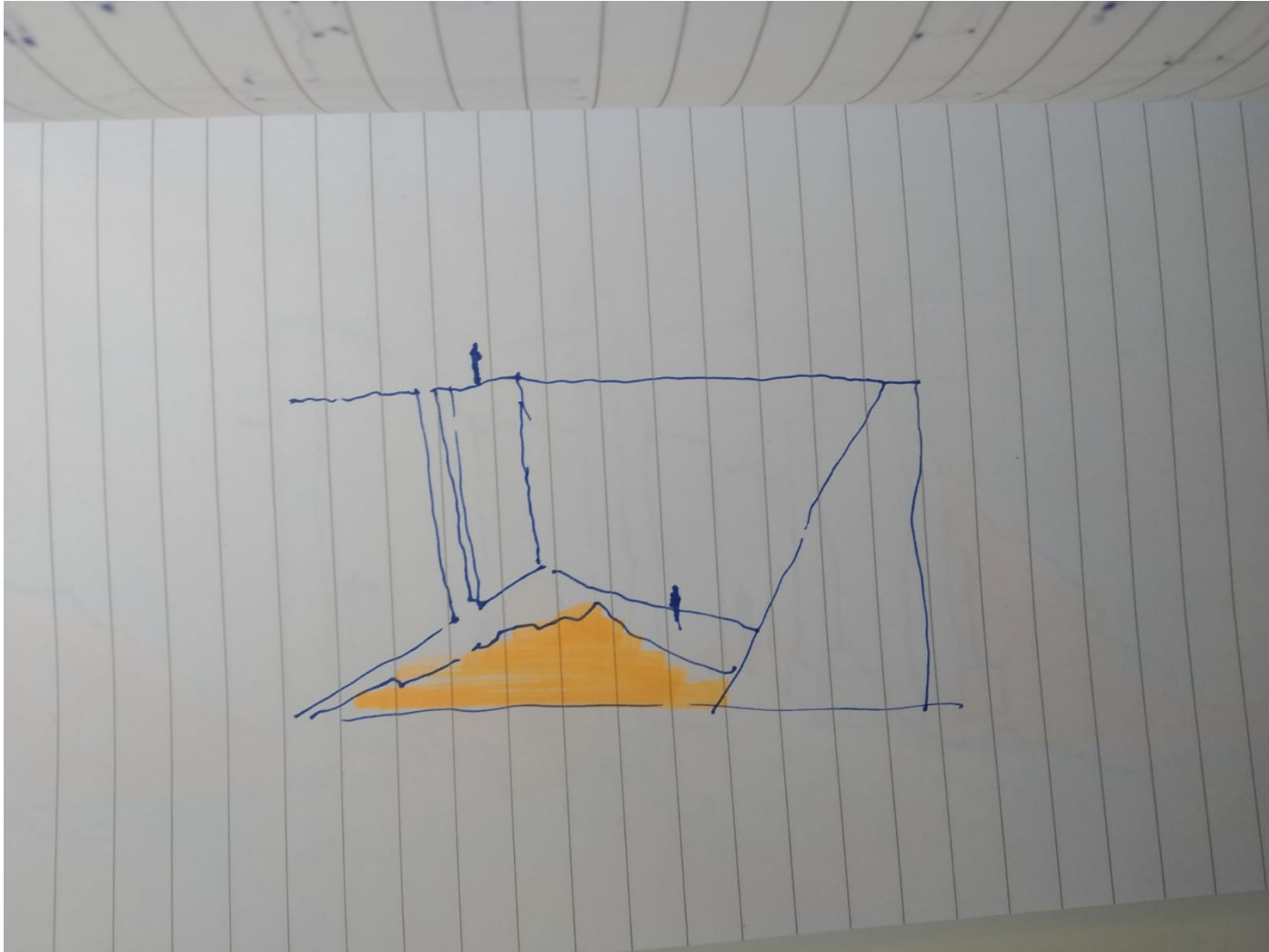


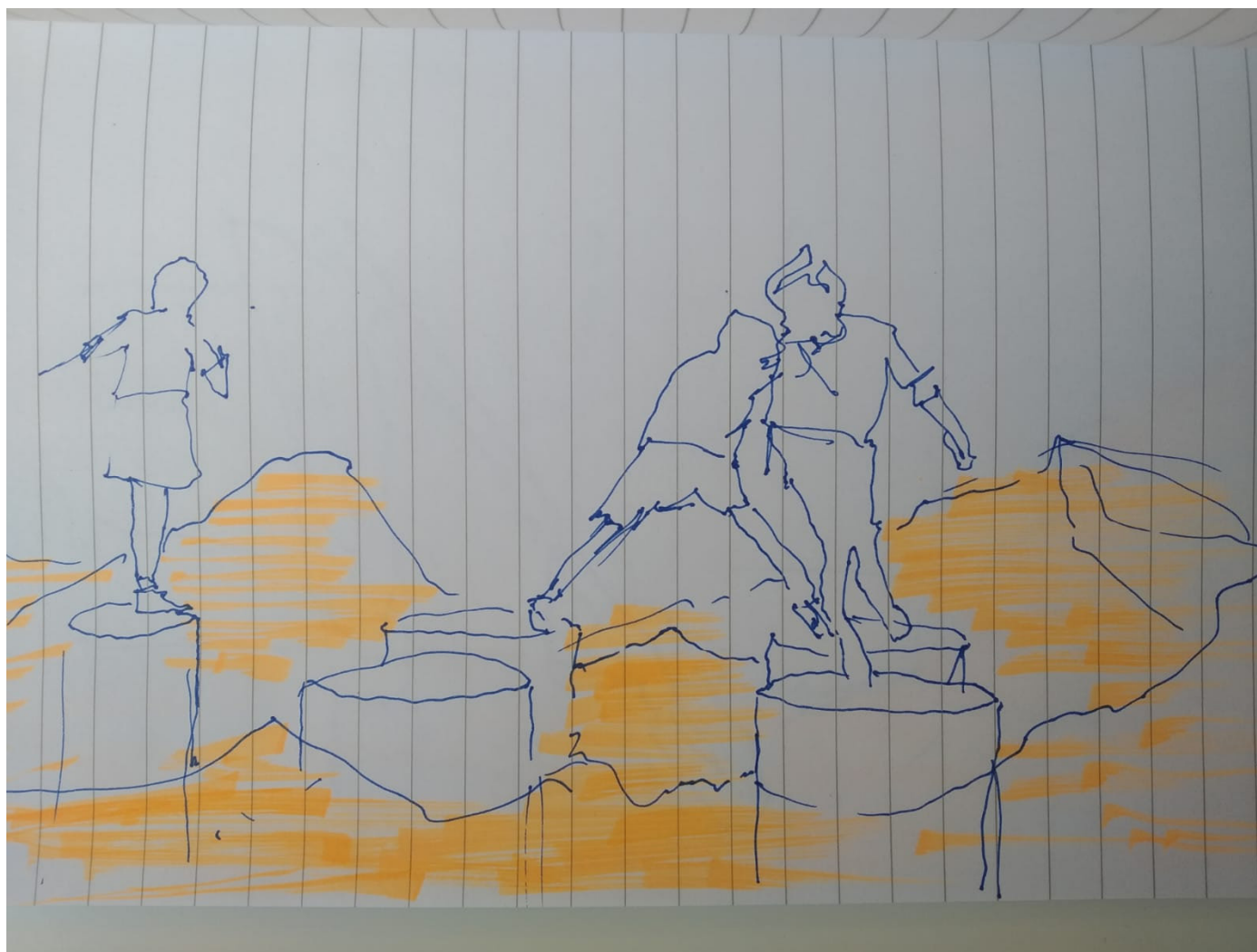


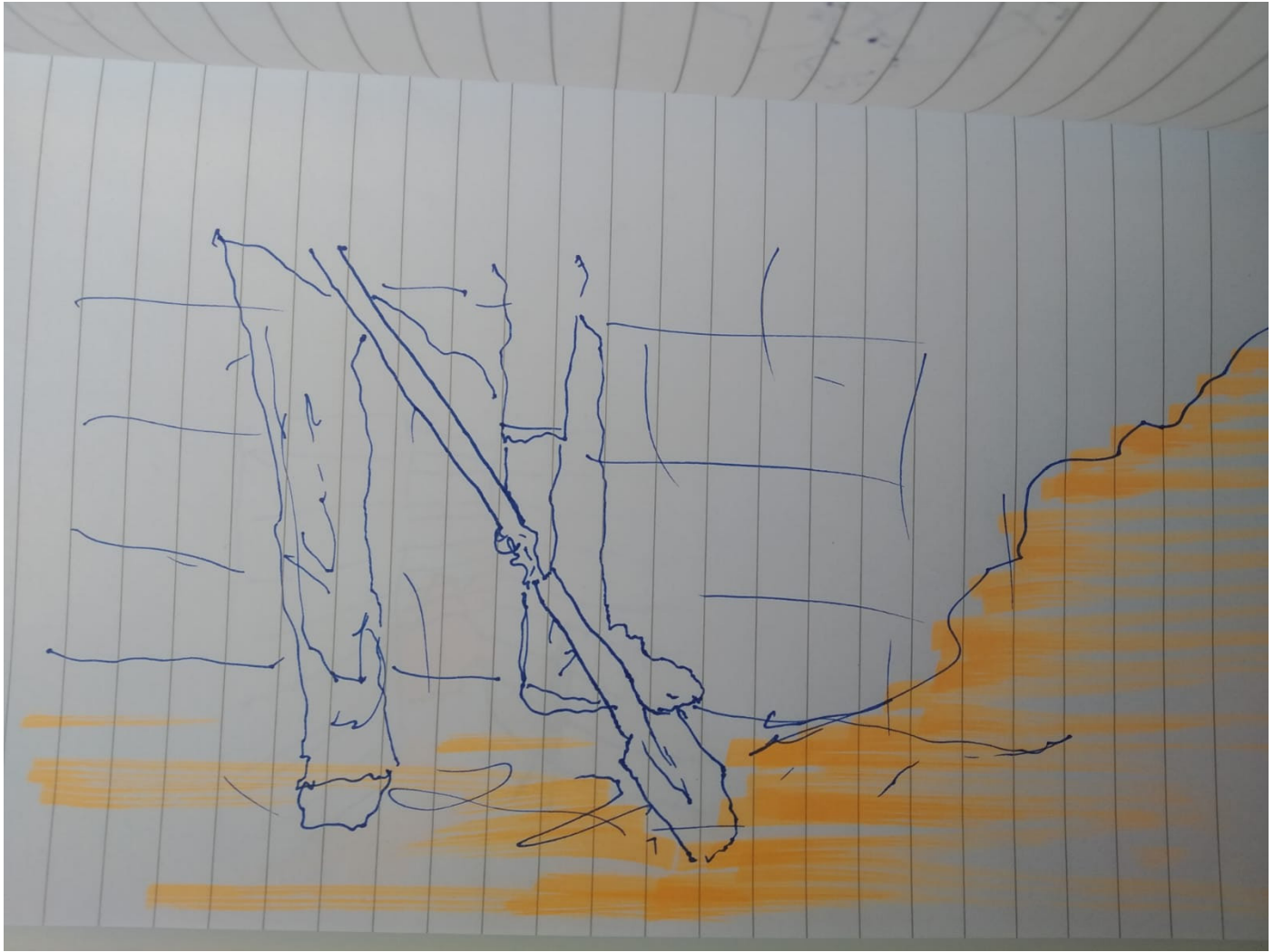


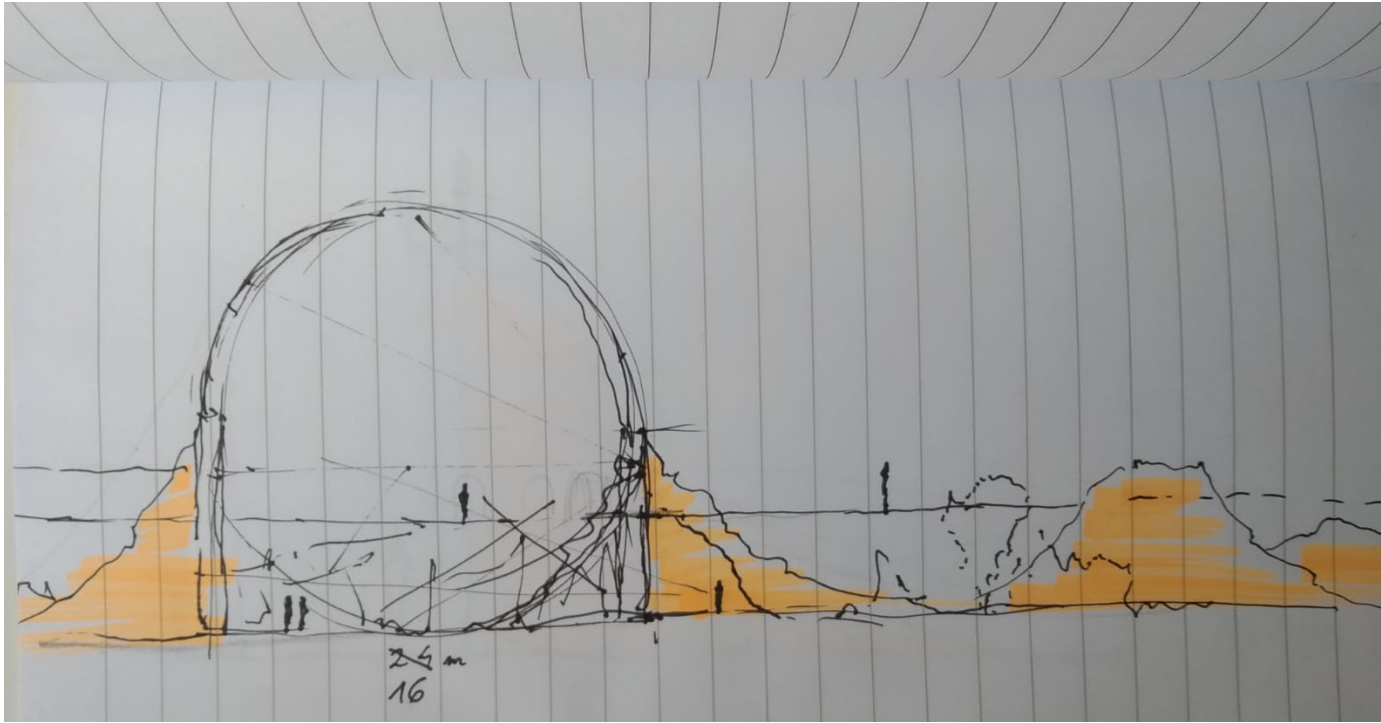




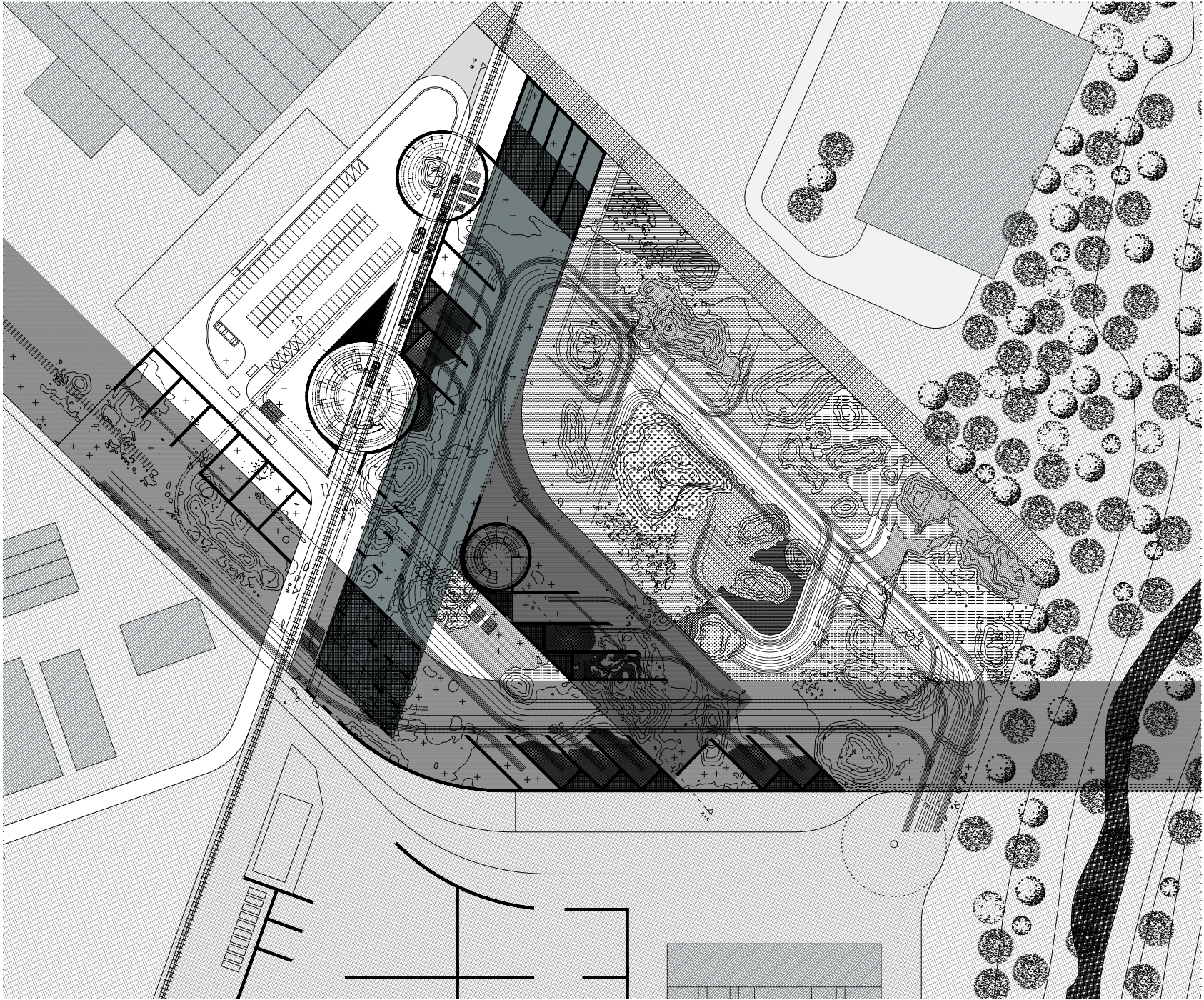


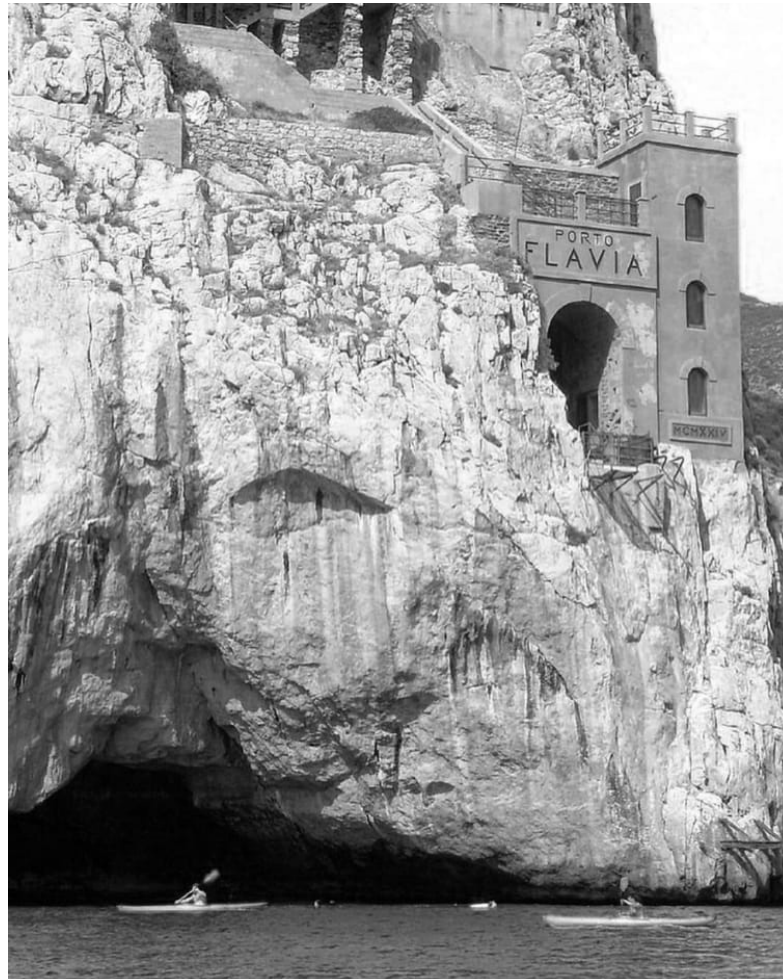








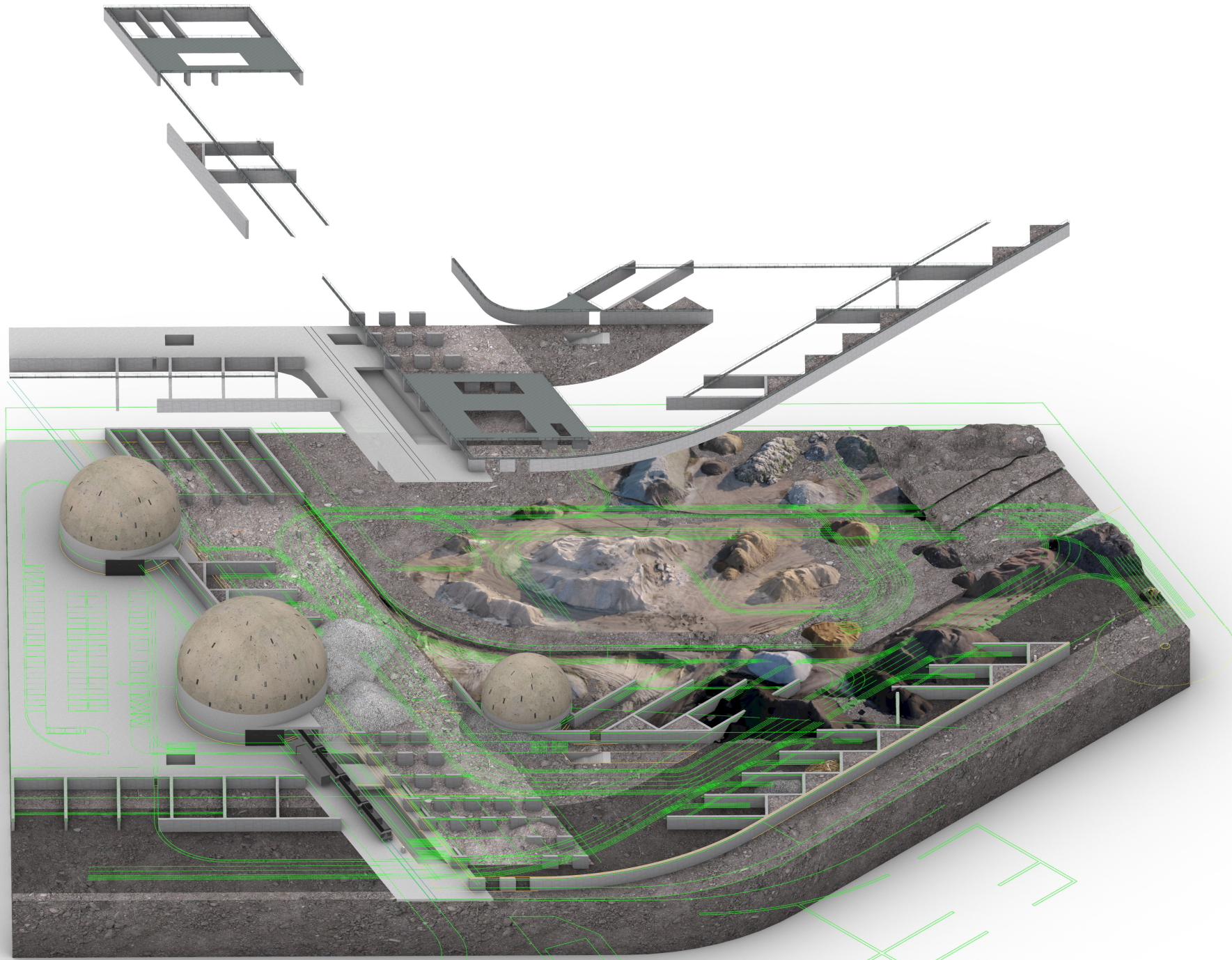




Firmitas  
Firmness

Utilitas  
Utility

Venustas  
Delight

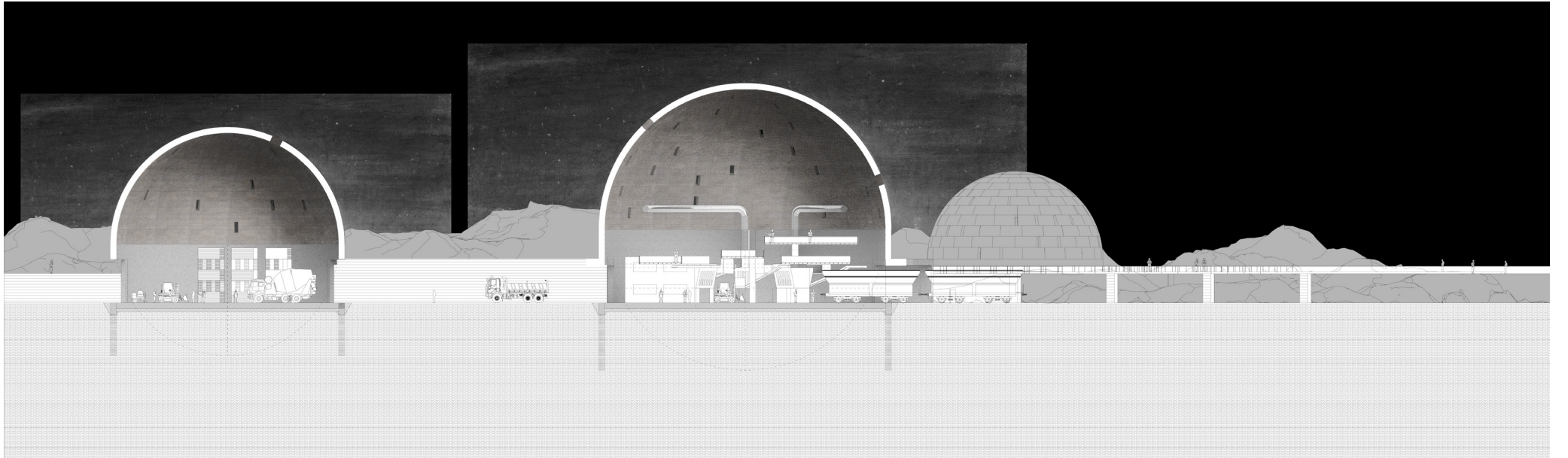


pixel/atom/grain/particle/gravel/aggregate

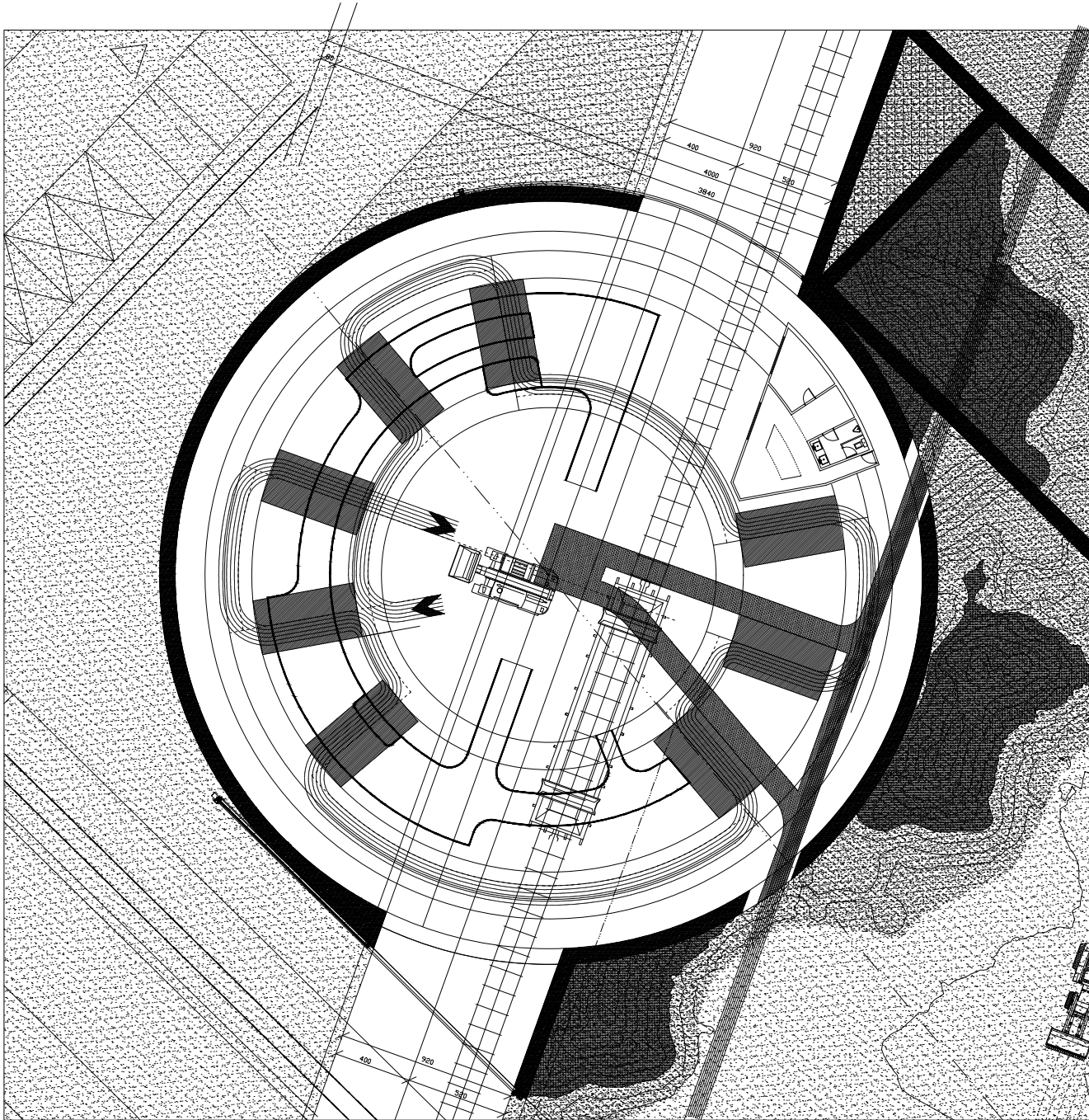


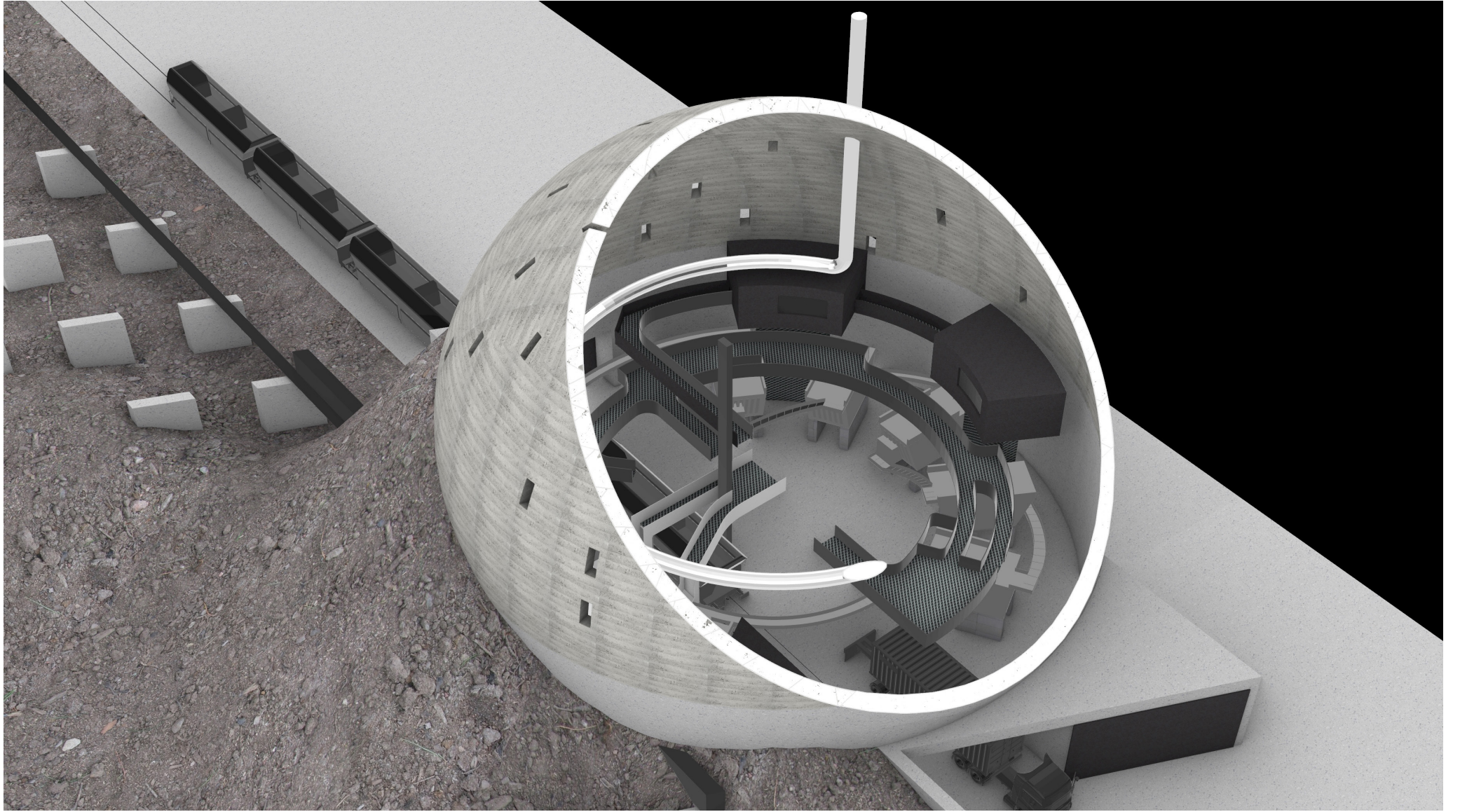


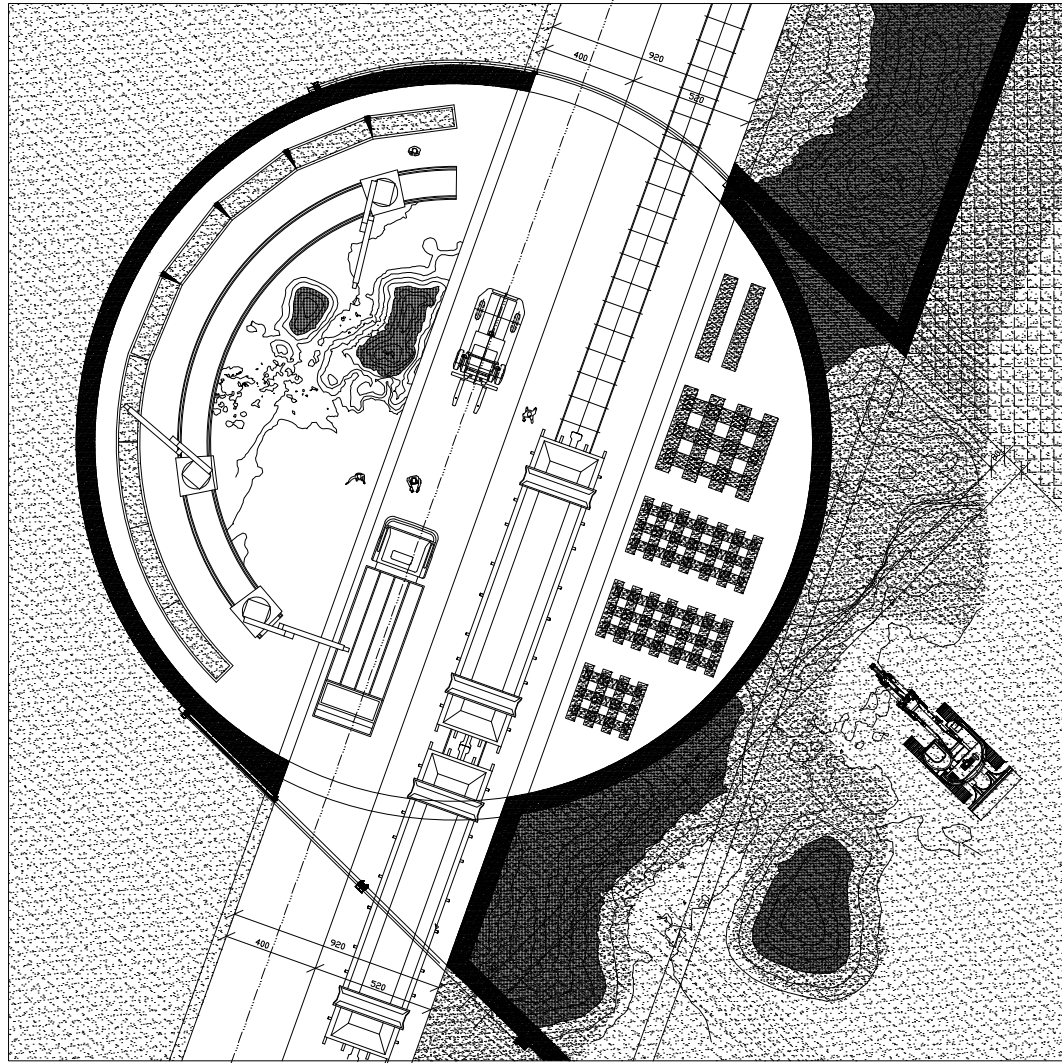


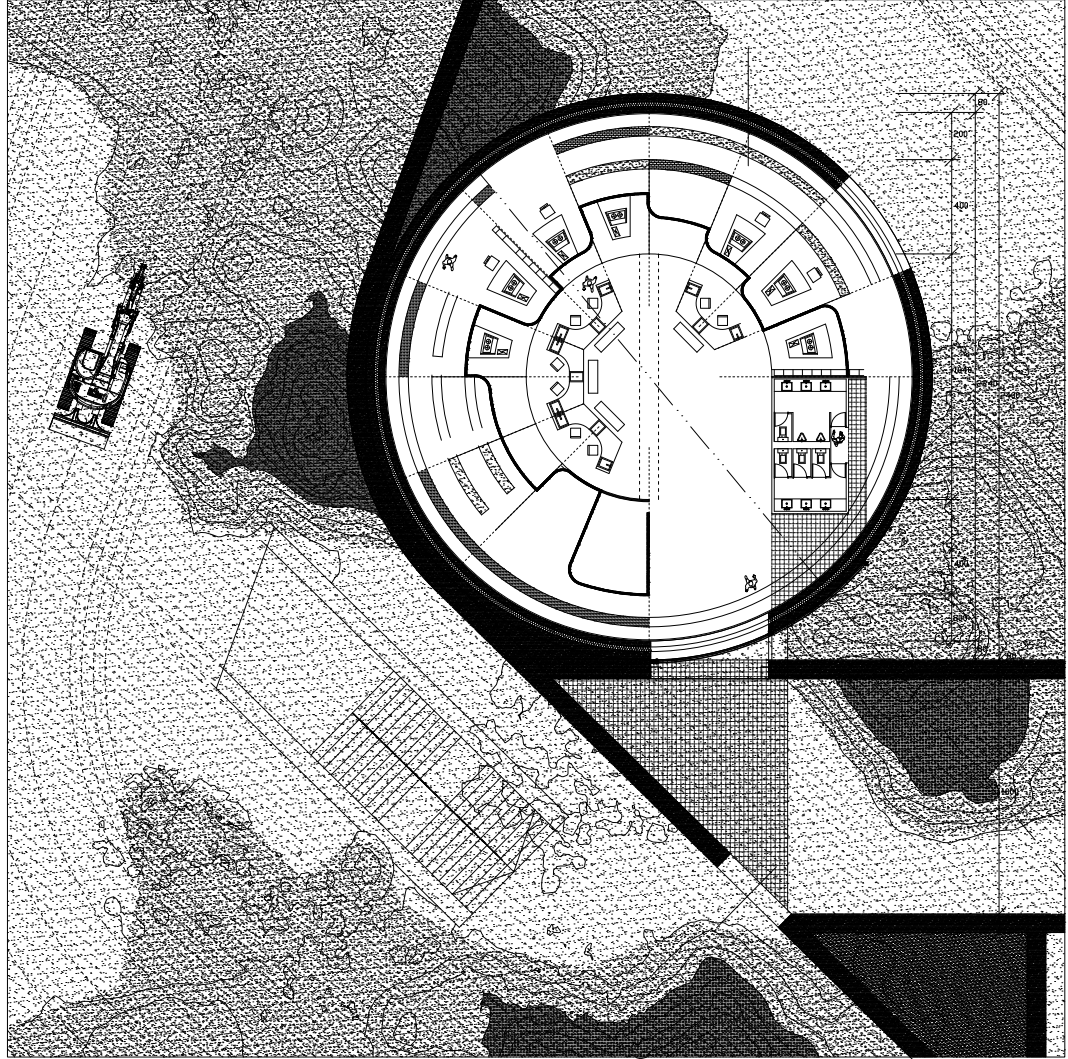


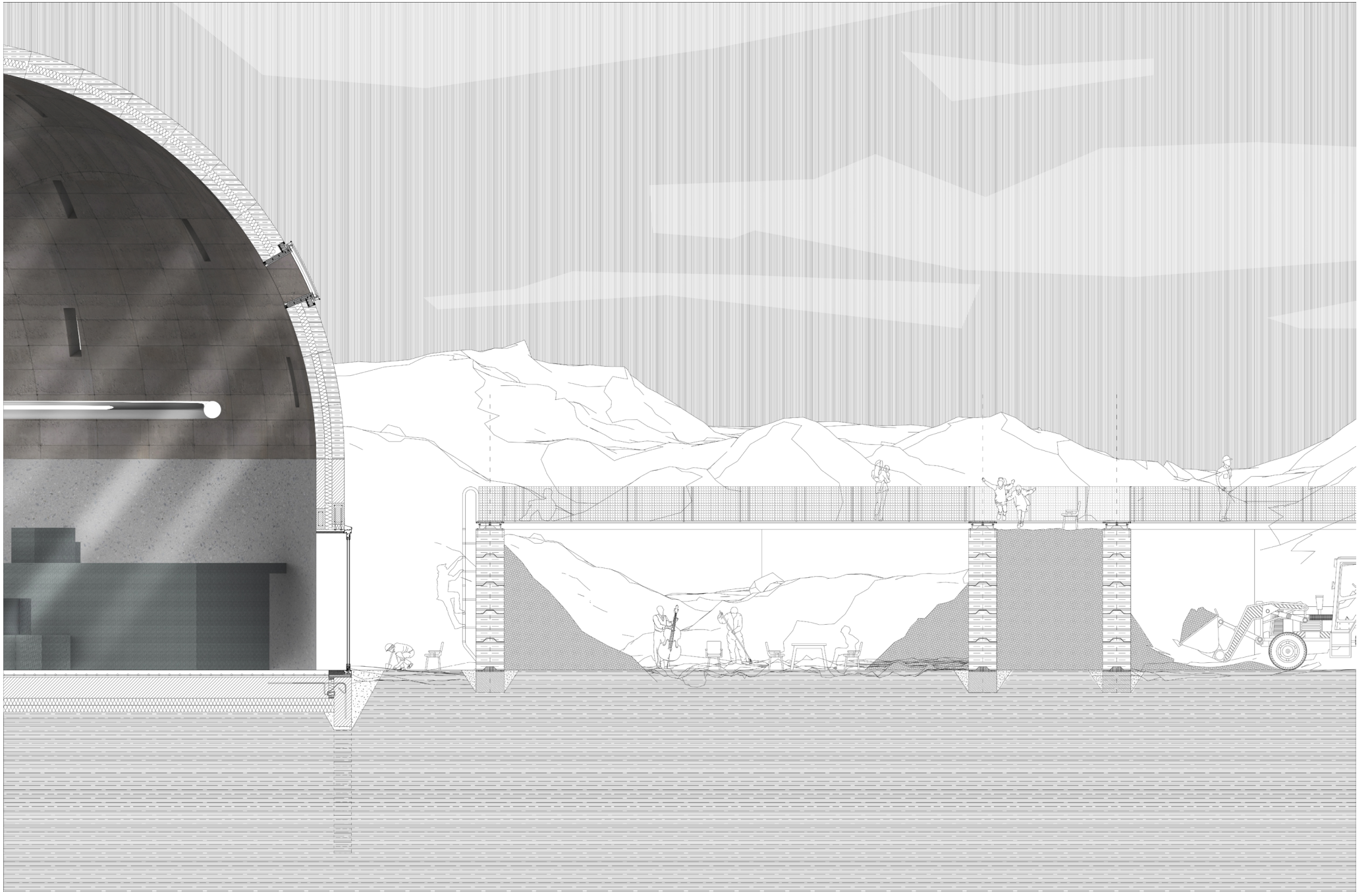


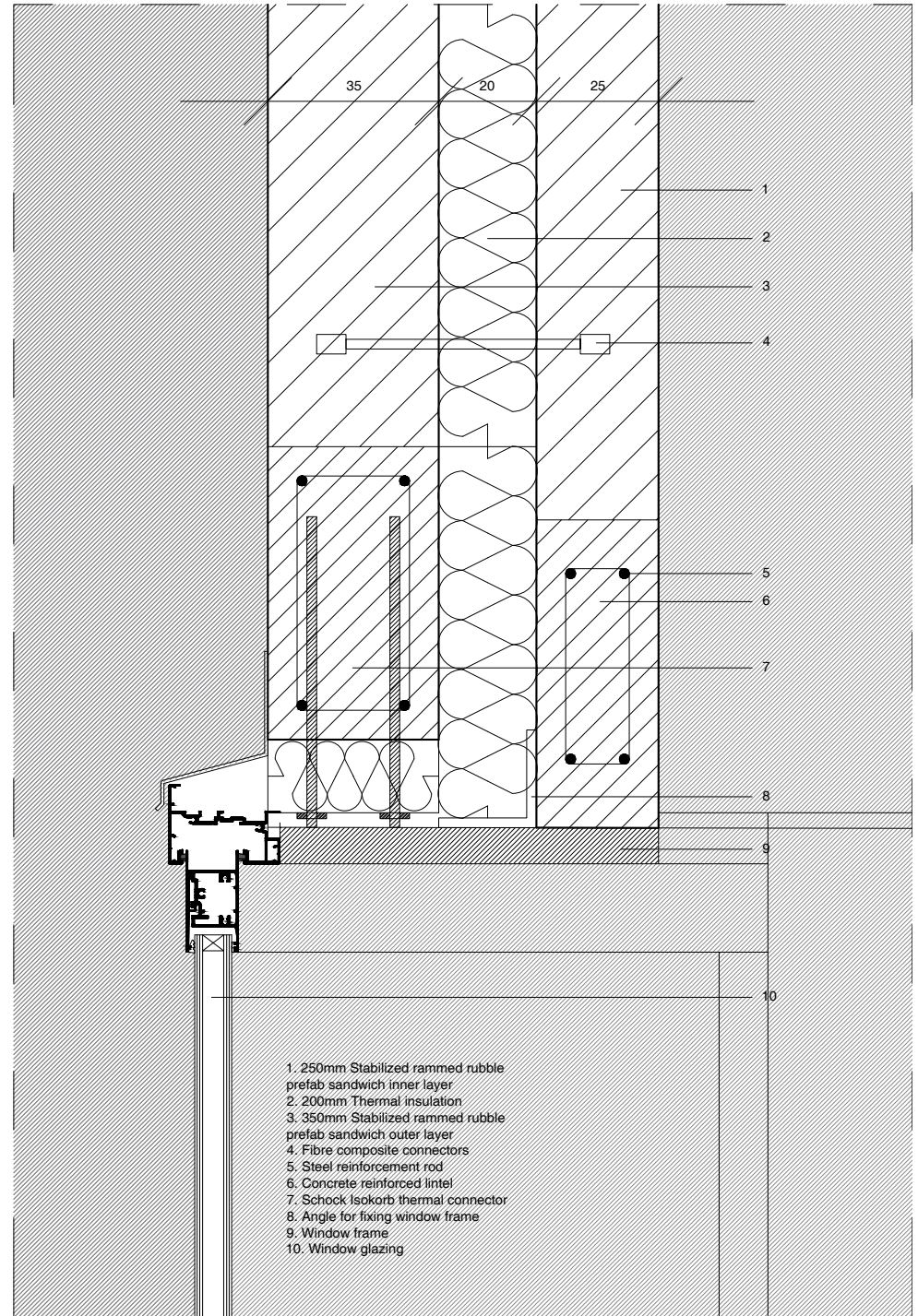
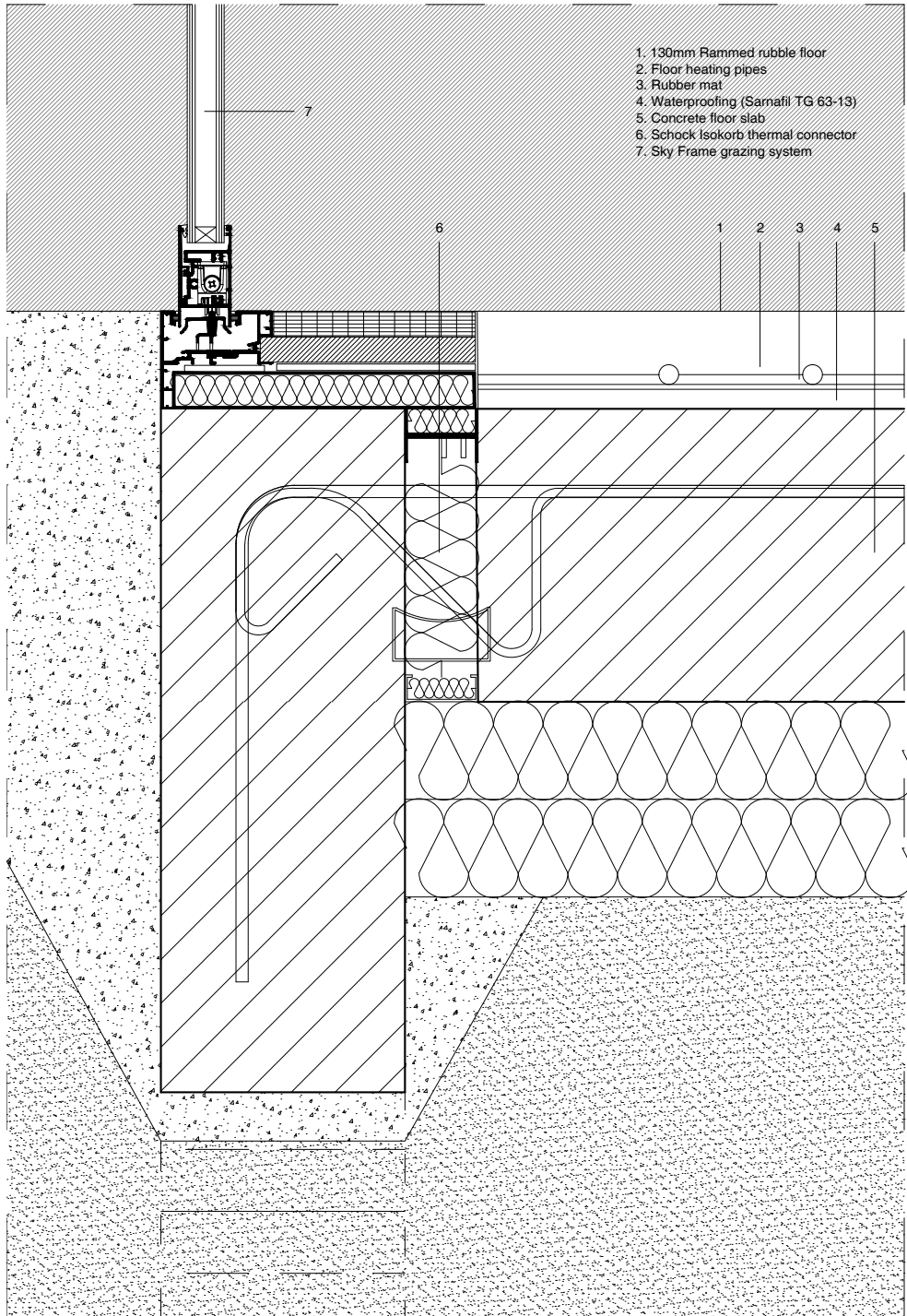


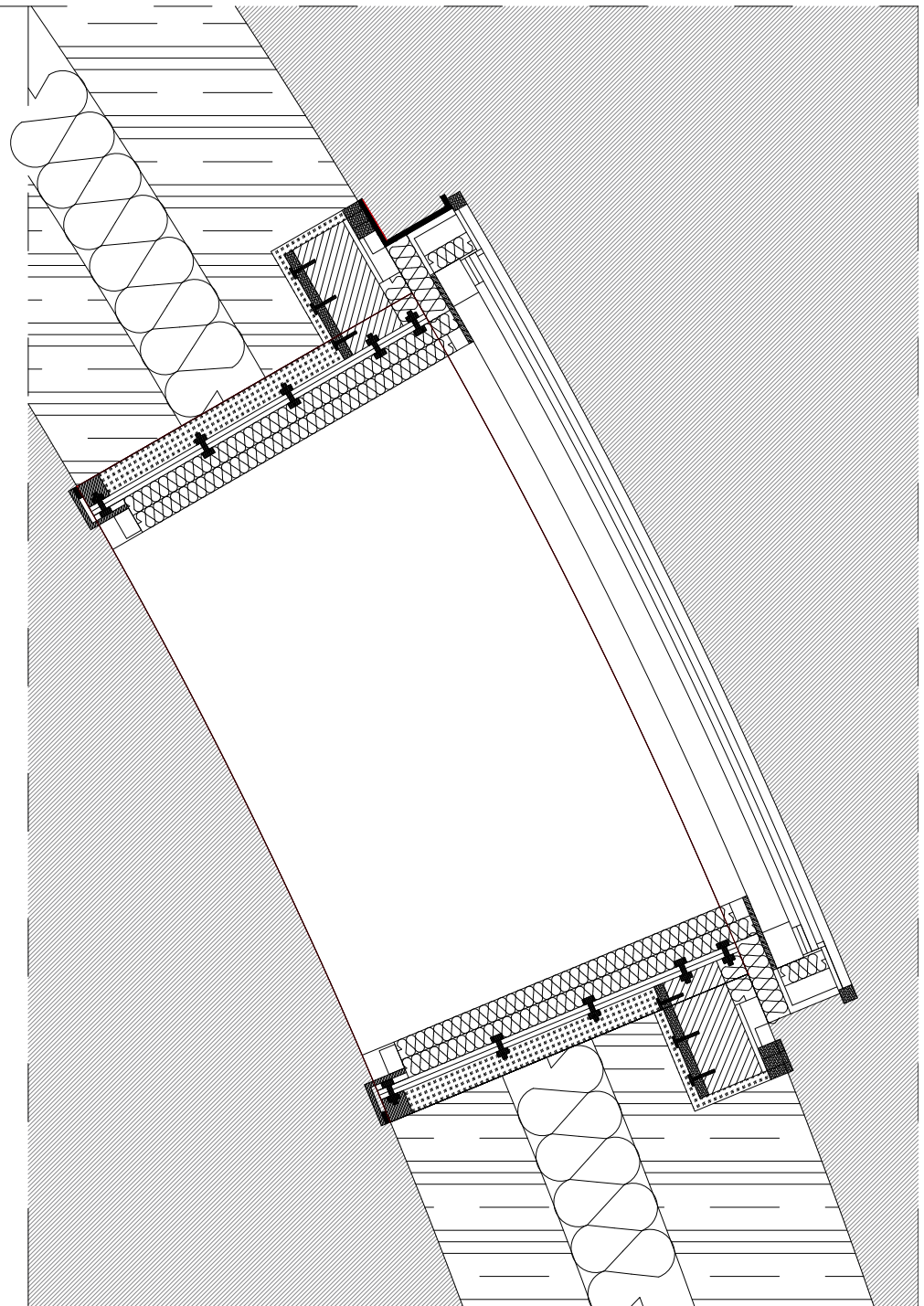
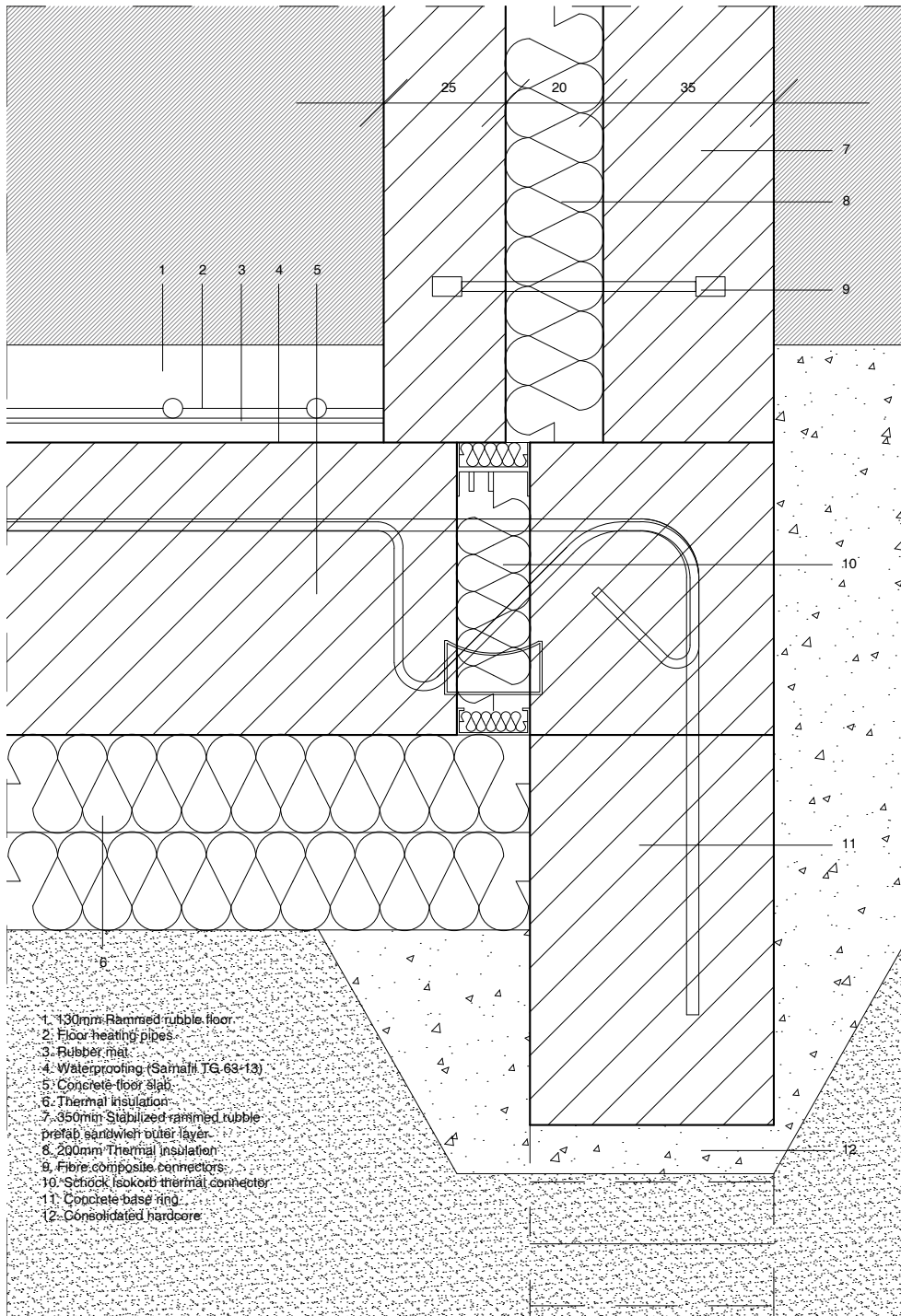


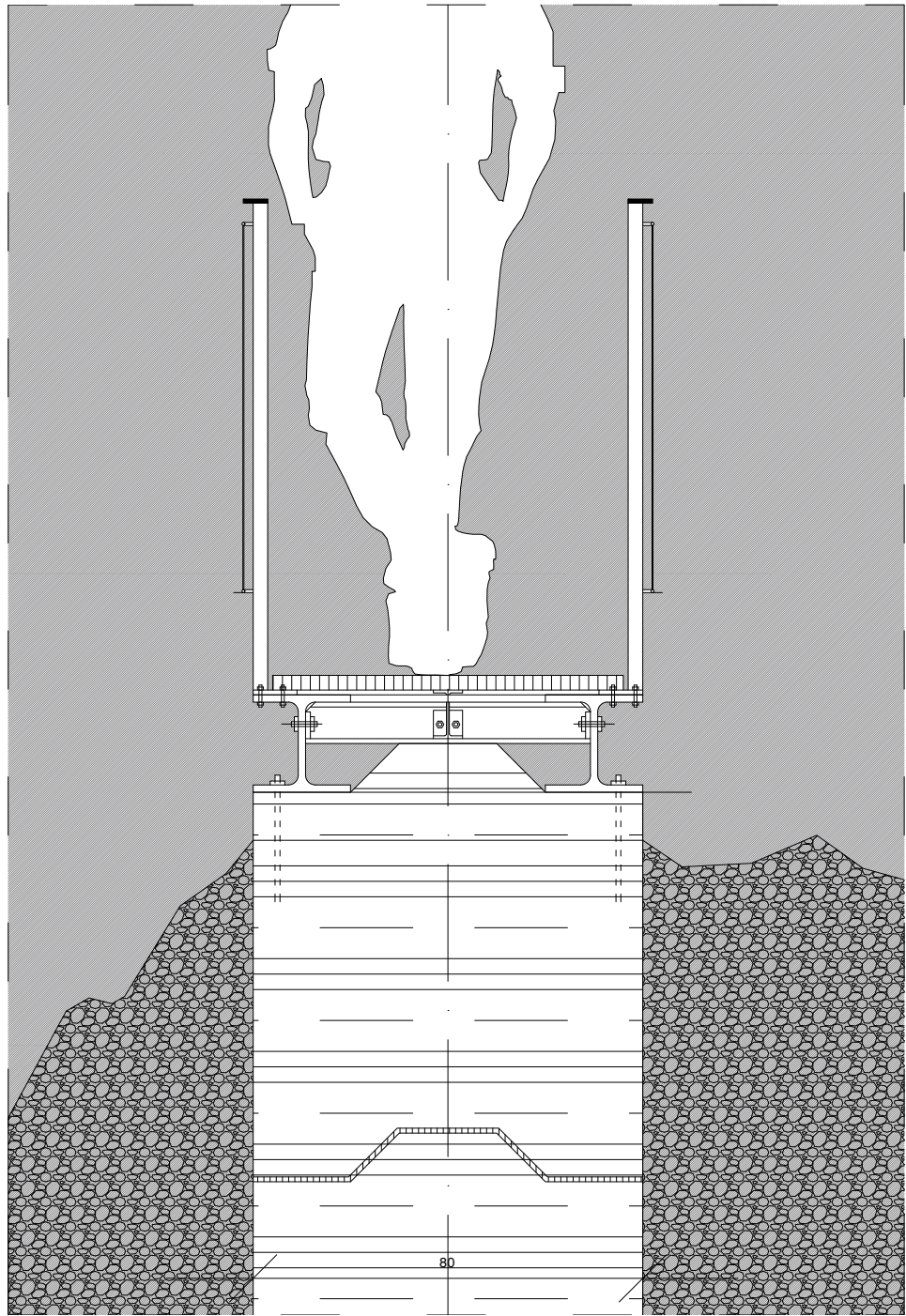




















# Leisure route

Development scenario 2018 - 2038

