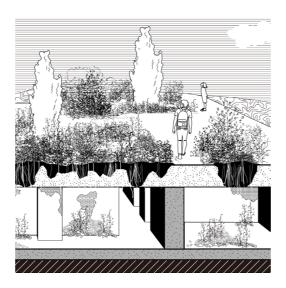
ATLANTIC WALL RUINS: THE REVERIE BEFORE OBLIVION.

Atlantic Wall ruins, history and memory in Den Helder



Landscape Architecture Graduation Studio 2022 - 2023 Place & Memory

P5 Presentation

Tutors Saskia De Wit Aleksandar Stanicic

Borui Xiong (5559537)

TU Delft Faculty of Architecture and the Built Environment

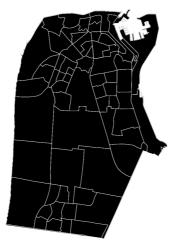
The Netherlands



North-Holland Province



Den Helder



The neighbourhood



The coast



The fortresses & bunkers



The dune



















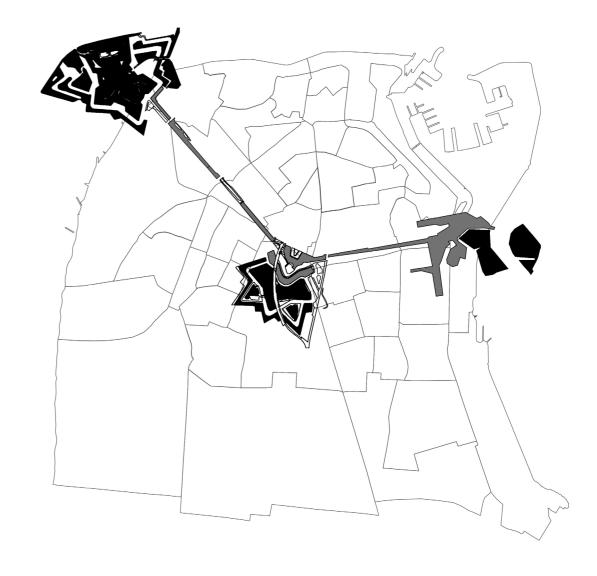










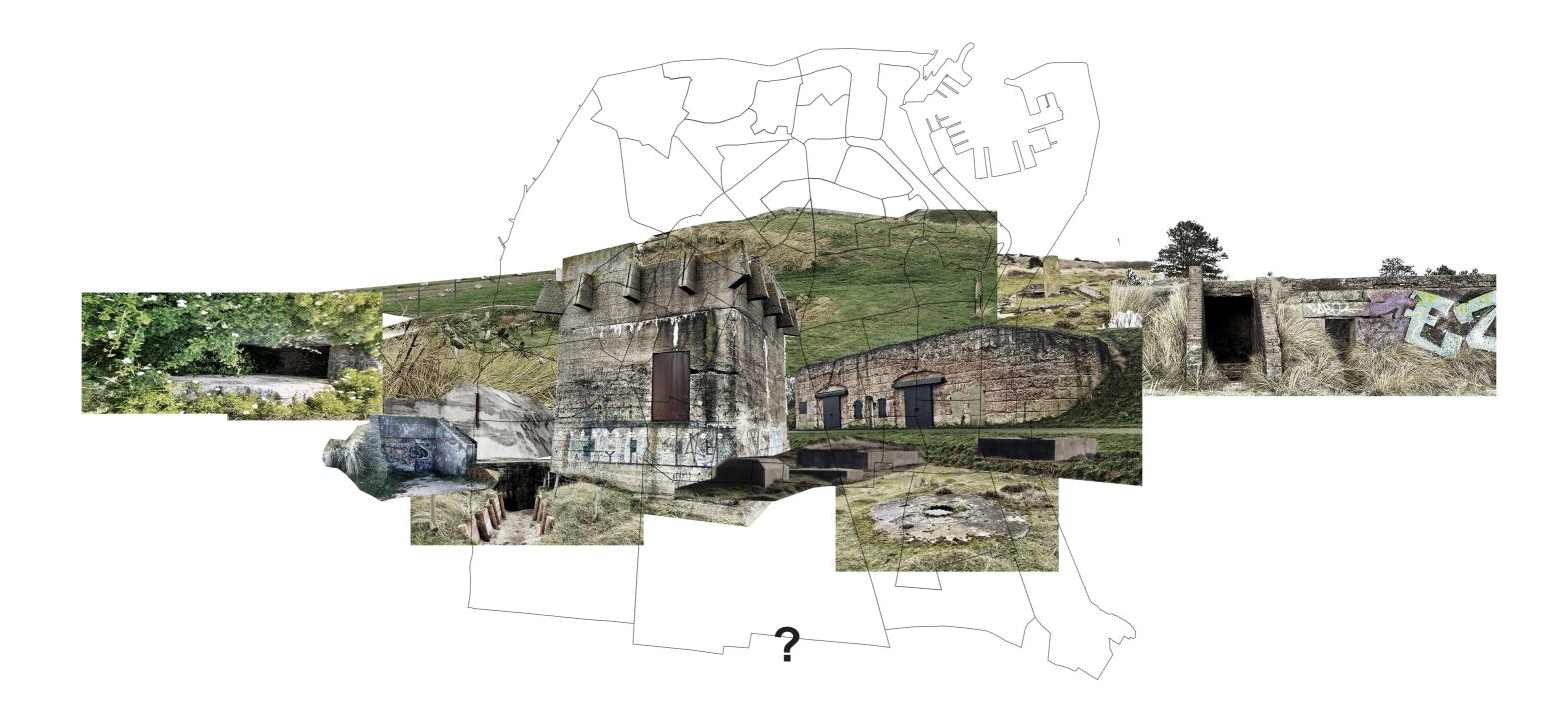


RESEARCH

MANIFESTO&CONCEPT

DESIGN PROPOSAL

CONCLUSION & REFLECTION



6



Figure. 11 Den Helder in 1694. Map of Den Helder in 1649, with a National naval port. (image from Rijkswaterstaat collection,

1781

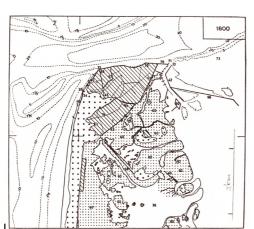


Figure. 12 Den Helder in 1800. Construction of military defence on the east side. (image from collectie Regionaal Archief Alkmaar, 1952)

1800

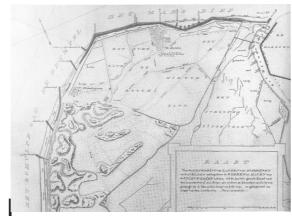


Figure. 13 Den Helder in 1811. City grid before the construction of defence ine. (image from Pieter de Nijs, 1811)

1811 Napoleon visited Den Helder

Napoleon Bonaparte ordered the construction of the Defence Line Den Helder(stelling Den Helder), which turned the village into a heavily fortified fortress system.



Figure. 18 Den Helder in 1864. The Willemsoord complex was mostly formed, with some of the dockyards and workshops already completed. (image from Noord-Hollands Archief, 1864).

1822 Willemsoord

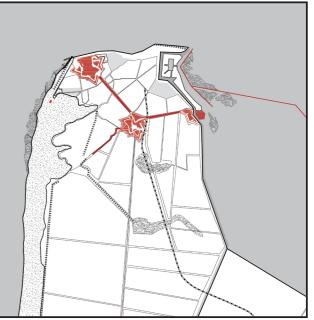


Figure. 19 Den Helder, 1850. The defence line was

1835-1900 Defence line reinforced constantly

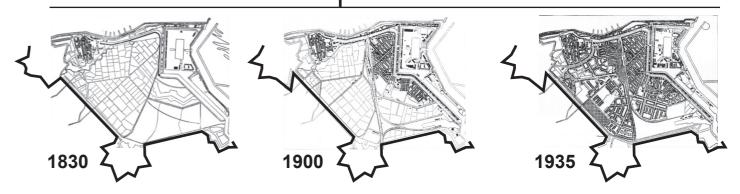


Figure. 20-22 Den Helder city expansion. The urban area of Den Helder expands towards the defence line(Collection from Regionaal Archief Alkmaar, 1950).



1940 WWII: German invasion

May 10, 1940, German forces invaded the Netherlands and occupied Den Helder.





Figure.24-25 Den Helder during WWII. Den Helder was heavily destroyed by bombing in WWII. (Collection from Regionaal Archief Alkmaar, 1944)

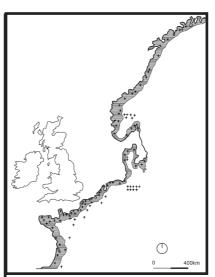


Figure.28 Atlantic wall masterplan. Map showin fortified areas of the Atlantic wall system. (information from Rose et al. (2002))



Figure.29 Atlantic wall plan in the Netherlands. Atlantic Wall construction sites in the Netherlands. (image from Rolf, Bunkers in the Netherlands, 2005)



Figure.30 Atlantic Wall in Den Helder. Defence area and sites of the Atlantic wall covers almost the entire Den Helder in 1942. (image from Atlantikwall Centrum, 1942)

1942-1945 construction of Atlantic Wall

1942-1943

German forces construct a series of bunkers and coastal batteries in the area around Den Helder as part of the Atlantic Wall. These defences are designed to prevent an Allied invasion of the Netherlands. In 1942, the German defence line border was moved to the south, making Julianadorp part of the Atlantic Wall.

1943

German forces increase their fortifications in Den Helder, constructing more bunkers and defences. The city became an important naval base for the German navy.



Figure.32-43 Atlantic wall bunkers in Den helder during WWII. Most of them were situated in the dune and coastal line. (photo from Fritis Lamberts, 1943)

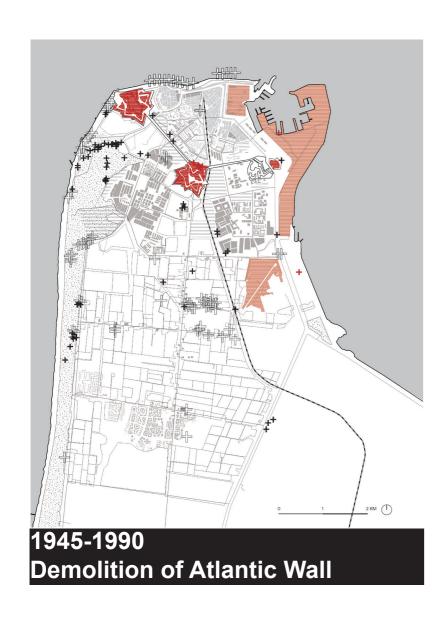








Figure. 45 Kroontjesbunker used as training field by navy, 1965 Figure. 46 Kroon (photo fromFlak Gruko, 1965)



Figure. 46 Kroontjesbunker used as training field for scouts, 1978 (photo from Flak Gruko, 1978)



Figure. 47 Atlantic wall center in Den Helder on fire in 2009, (photo from stelling denhelder, 2009)



museum, monument.....



Figure. 53 People visit atlantic wall center. (Collection from Regionaal Archief Alkmaar, 2009)





Figure. 54-55 Fort museums in Den Helder. The fortress of the old defence line is now used as a museum and military training base.(photo from Borui Xiong, 2022)

ruins

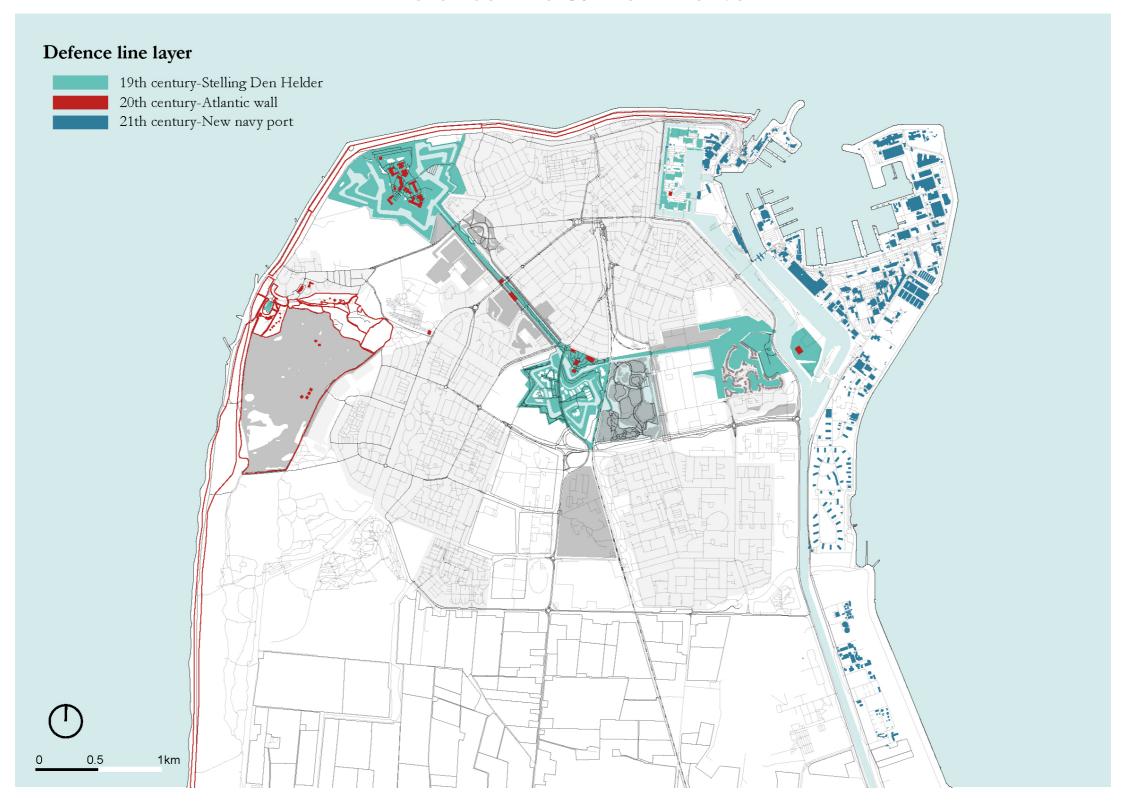




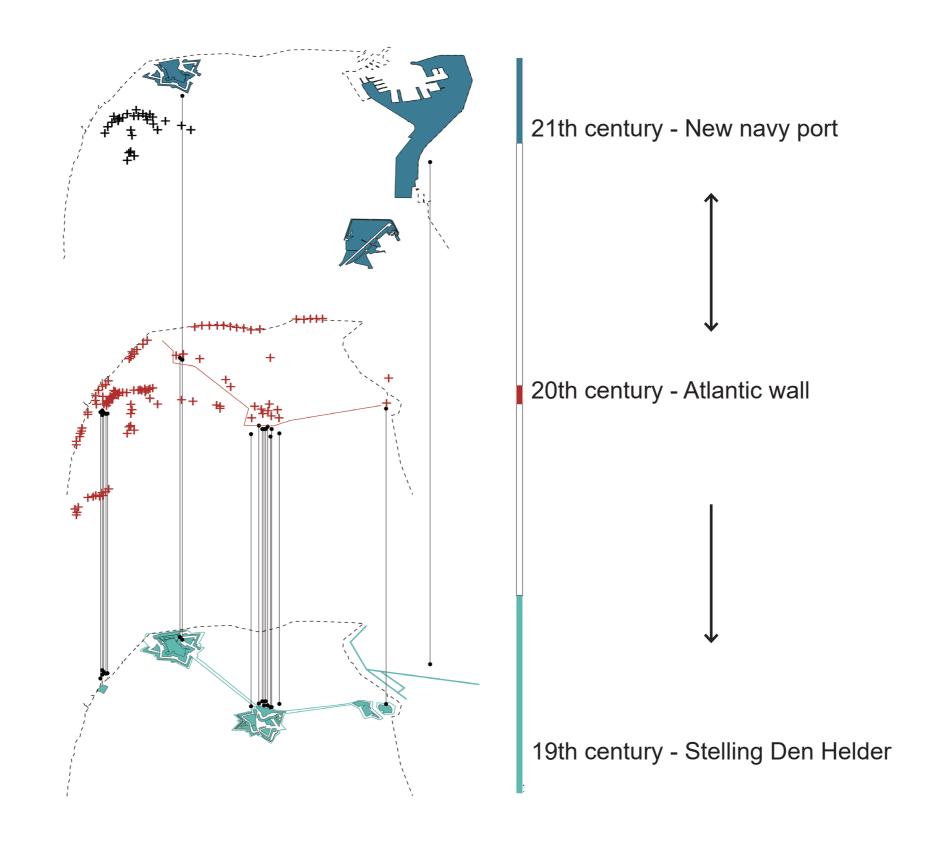


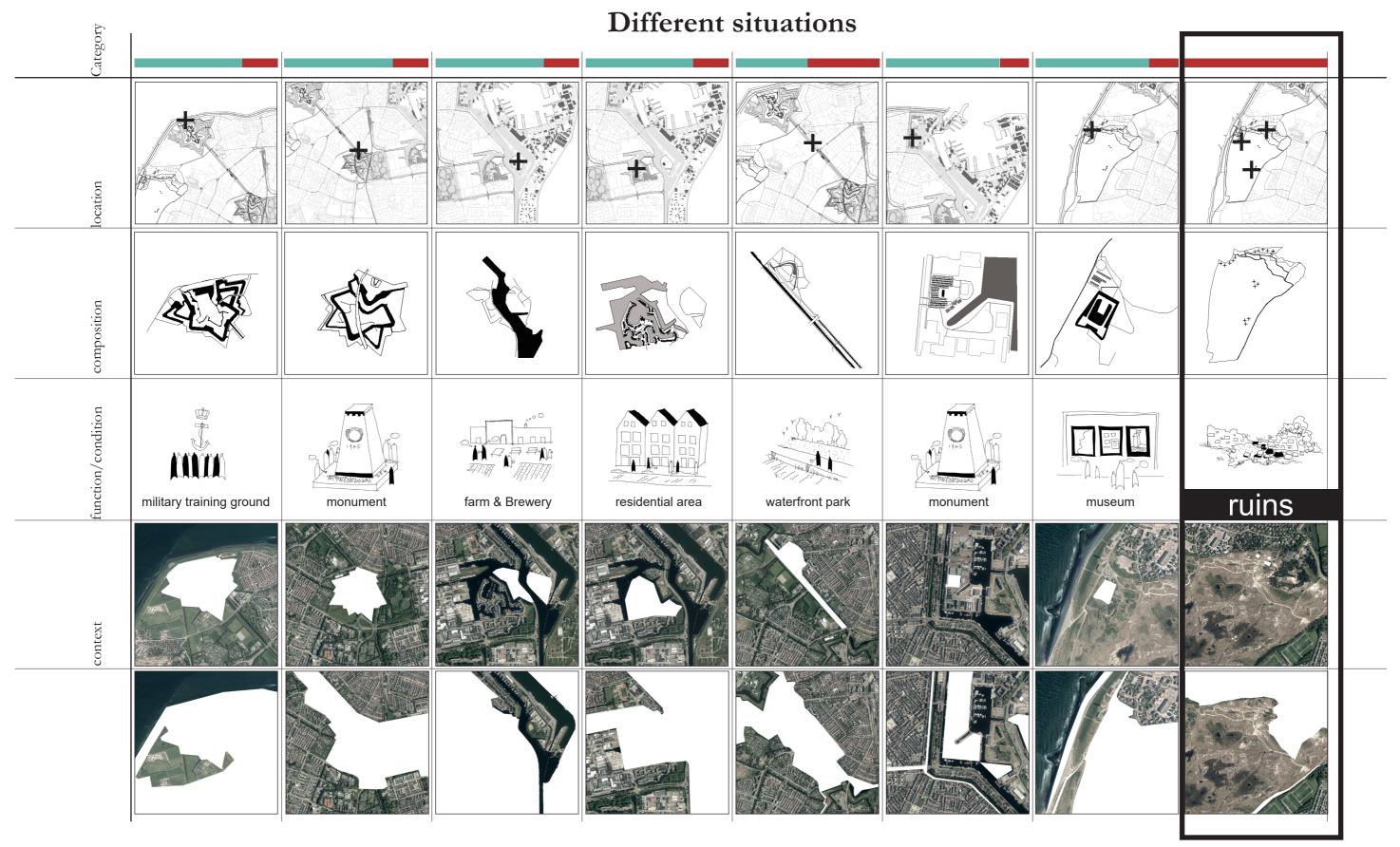
Figure. 56-58 Bunker ruins in the dune. The Atlantic Wall bunker in the dunes is gradually becoming ruined, invaded by vegetation and structurally damaged. (photo by Flak Gruko, 2016)

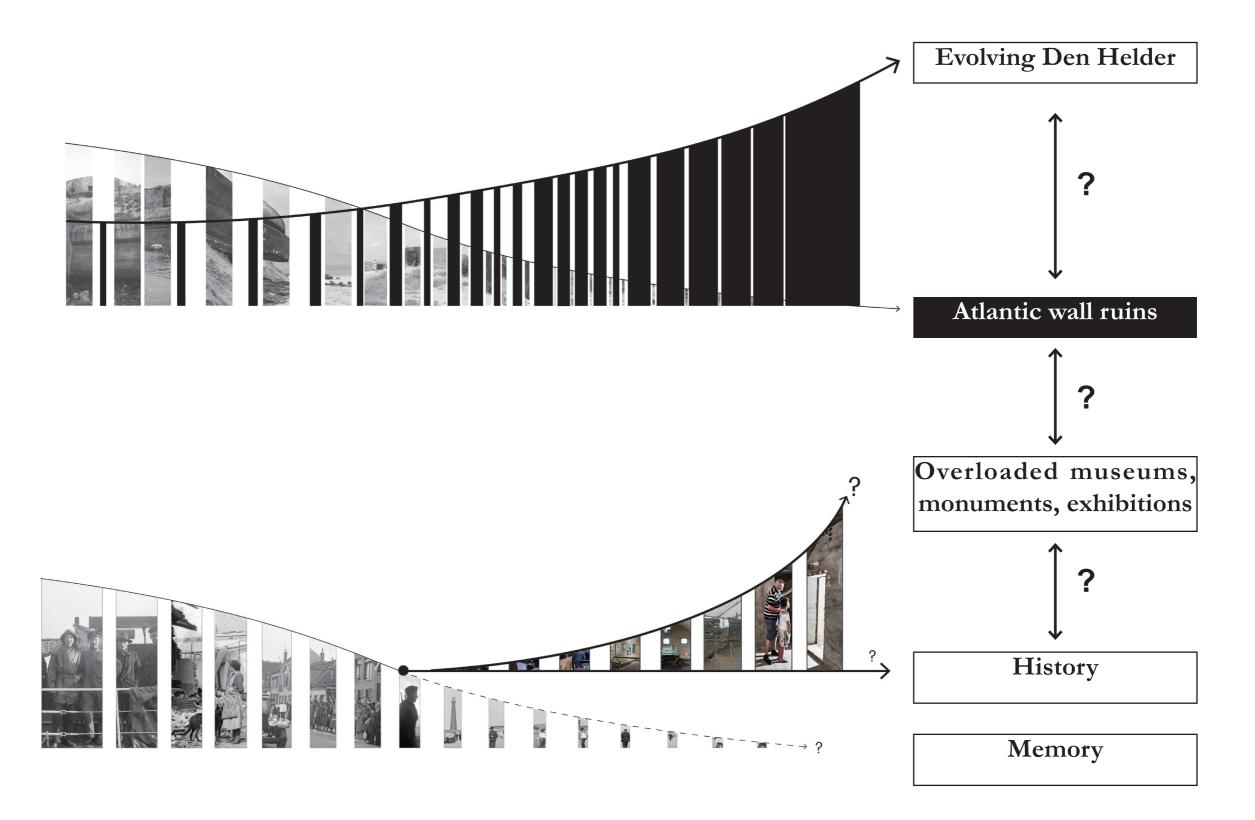
Defence line & Den Helder

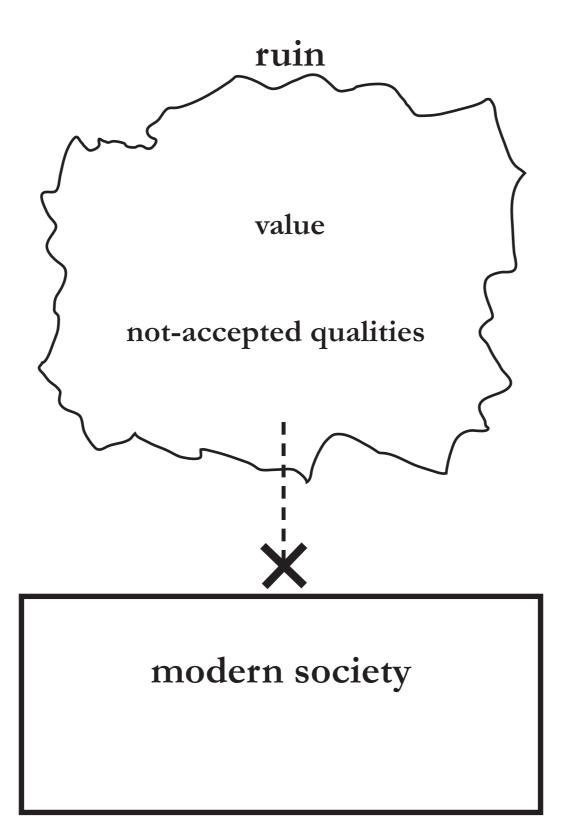


Layered defence line history







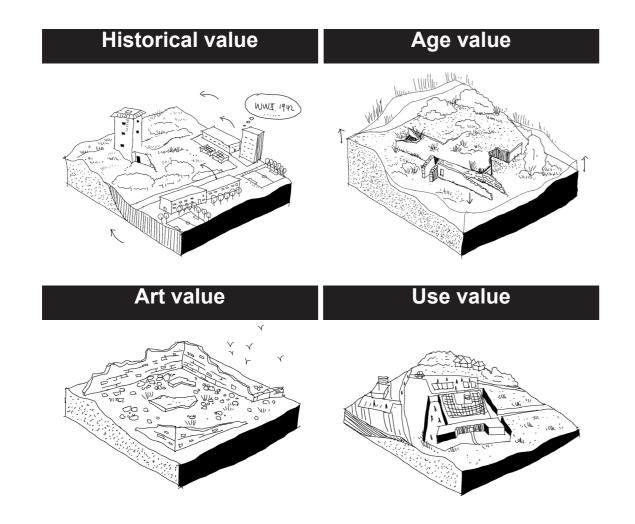


Research

How to reveal the <u>value</u> of post-war ruins in modern society while maintaining their <u>ruinous qualities</u>?



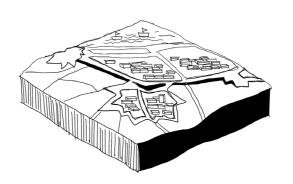
Post-war ruins as <u>unintentional monuments</u>



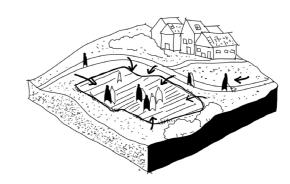


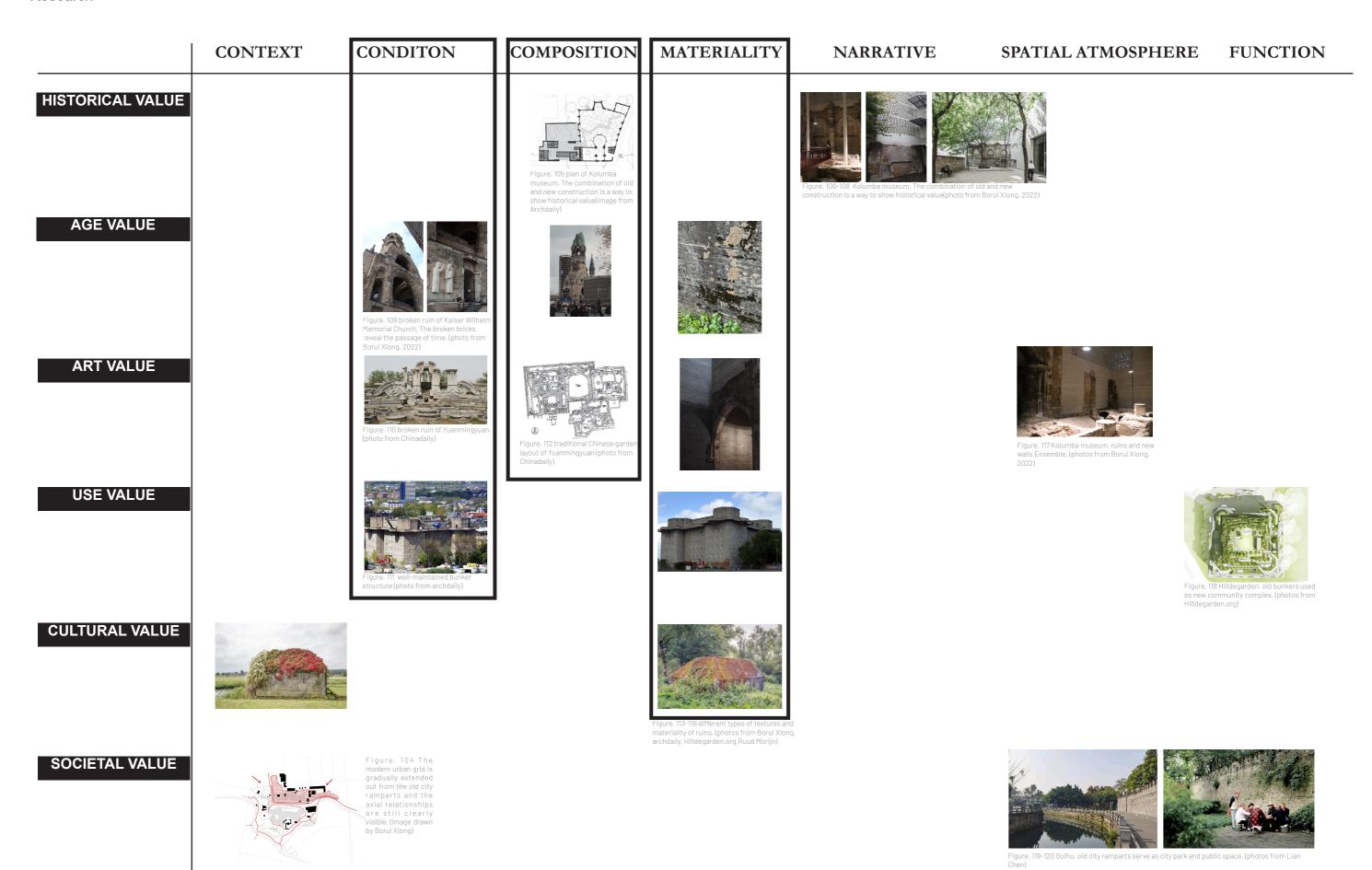
Post-war ruins as terrain vague

Cultural value



Societal value





PRESERVATION

RESTORATION

RE-USE

TRANSFORMATION

DESIGN





igure.121-122 remained ruins of Yuanmingyuan



site. (photo from BBC News)

RUIN





Figure.123 Yuanmingyuan. restored water body with remained ruins (photo from Chinadaily)



Figure.126 Kolumba Museum. The refurbished ruin is now used as museum.
(photo from Rasmus Hjortshoj)



waterline. Bunker 599
as national monument,
but keep ruinous
quality. (photo from
Fazhong Bai)



Figure.128 Kolumba
Museum. A mix of ruins
and new structures that
reflect transformation.
(photo from Borui



structure has been built around the ruins of the Berlin Wall, enclosing it to form a public museum (photo from Borui Xiong 2022)

NON RUIN

museum

monument



Figure.124 Fortification in Xi'an, China. The Xi'an City Wall has been maintained to preserve its original appearance. It is now regarded as a monument. (photo from Chinadaily)



igure.125 Kolumba Museum. The restored hurch is still functioning as part of the nuseum. (photo from archdaily)

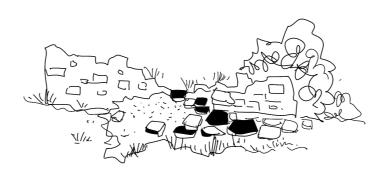
exhibition



Figure.129 Fort Werk aant Spoel. The bunker was gradually transformed into a popular public place that. (photo from Archdaily)



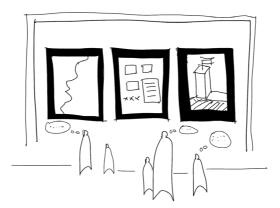
Wilhelm Memoria Church. A new building was built beside the ruin. (photo from Borui Xiong, 2022)



RUIN

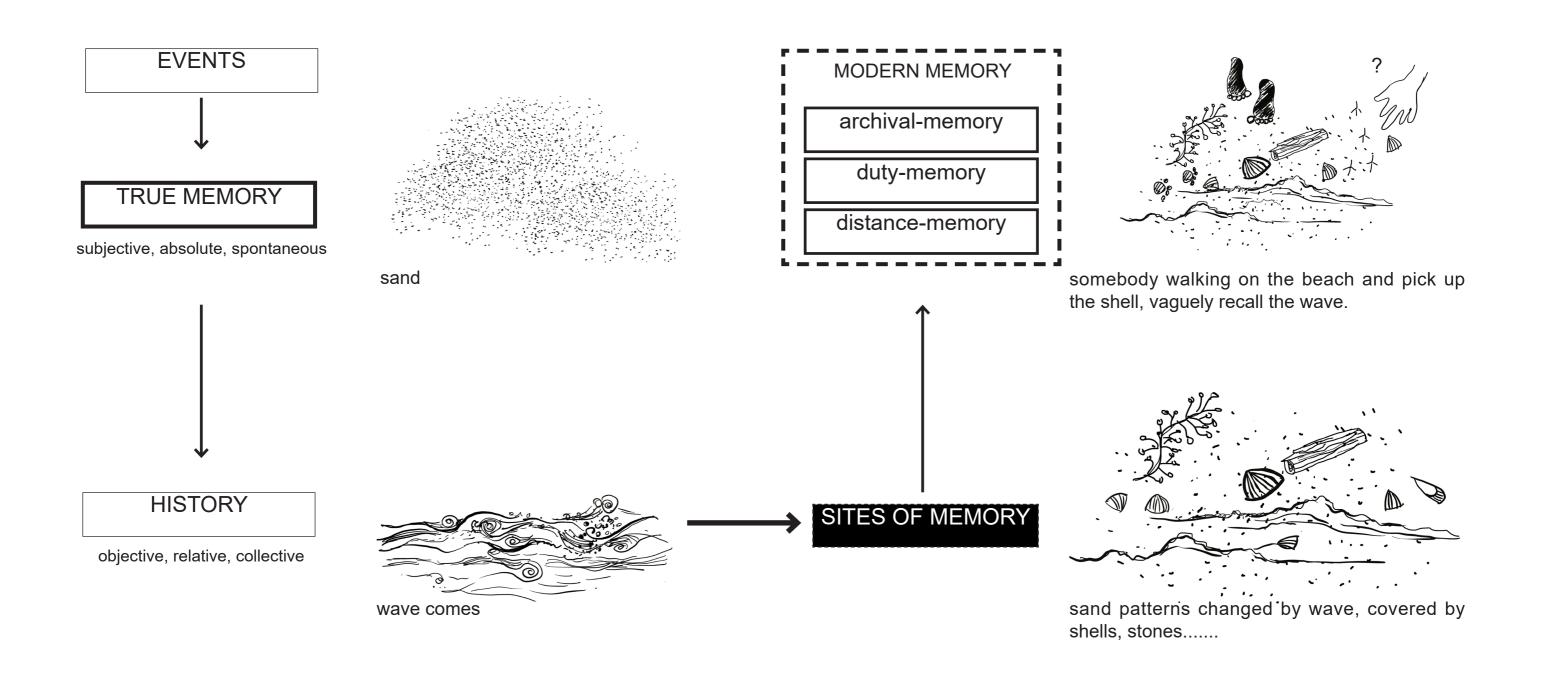
or

NON RUIN





"Site of memory (lieu de mémoire) is any significant entity, whether material or non-material in nature, which by dint of human will or the work of time has become a symbolic element of the memorial heritage of any community" (Nora, 1996, p.4)



How to reveal the <u>value</u> of post-war ruins in modern society while maintaining their <u>ruinous qualities</u>?



Intervention principles for post-war ruins

- Preserve and enhance the ruinous spatial qualities and sense of place.
- Resist the urge to tidy them up or integrate them too closely with modern urban systems.
- Maintain their isolated and heterogeneous character.
- Create opportunities for people to engage with the ruins in a free and spontaneous way.
- Provide information and context about the historical significance of the Atlantic Wall and its role in World War II to ensure that the public can reflect and learn from this important piece of history.

24

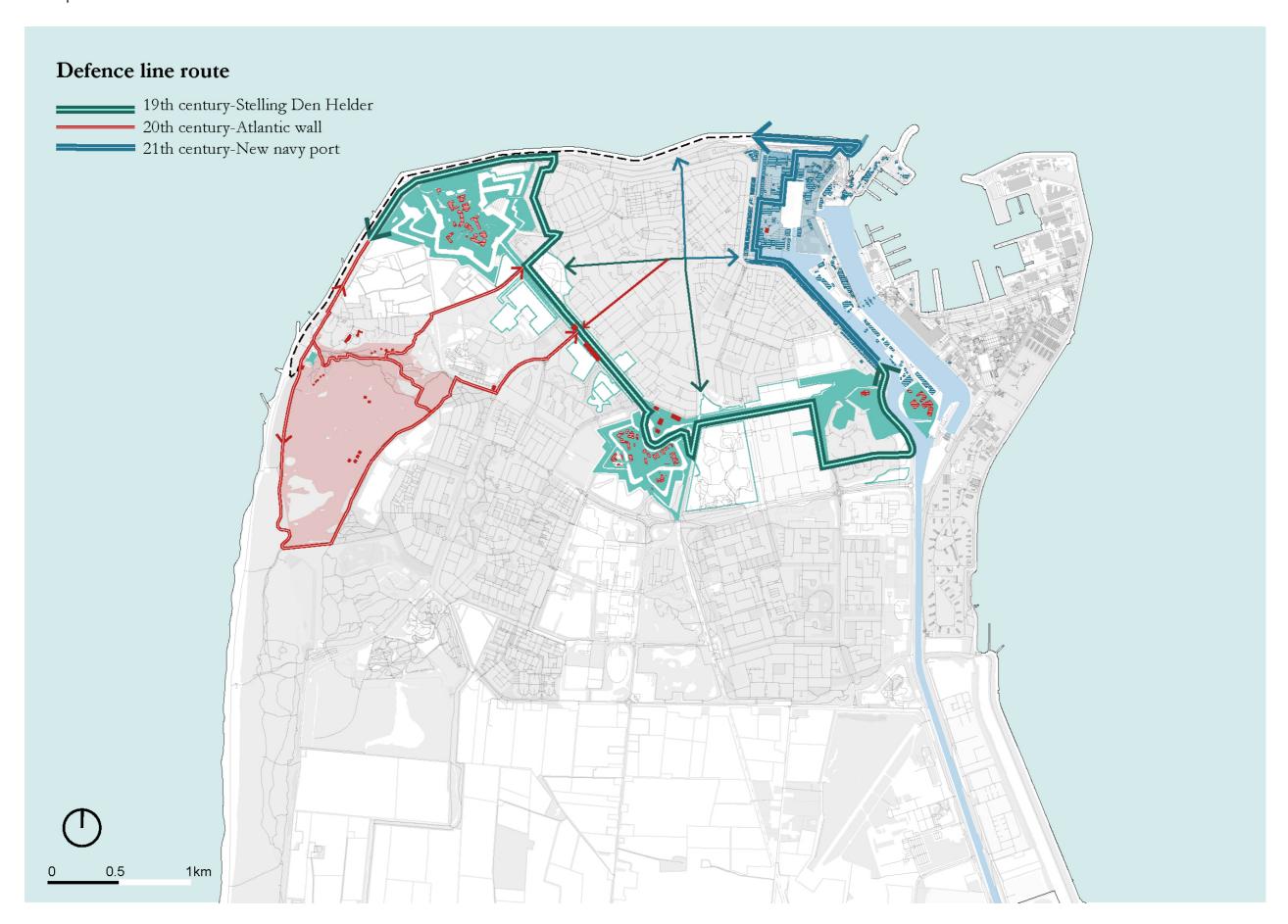
RESEARCH

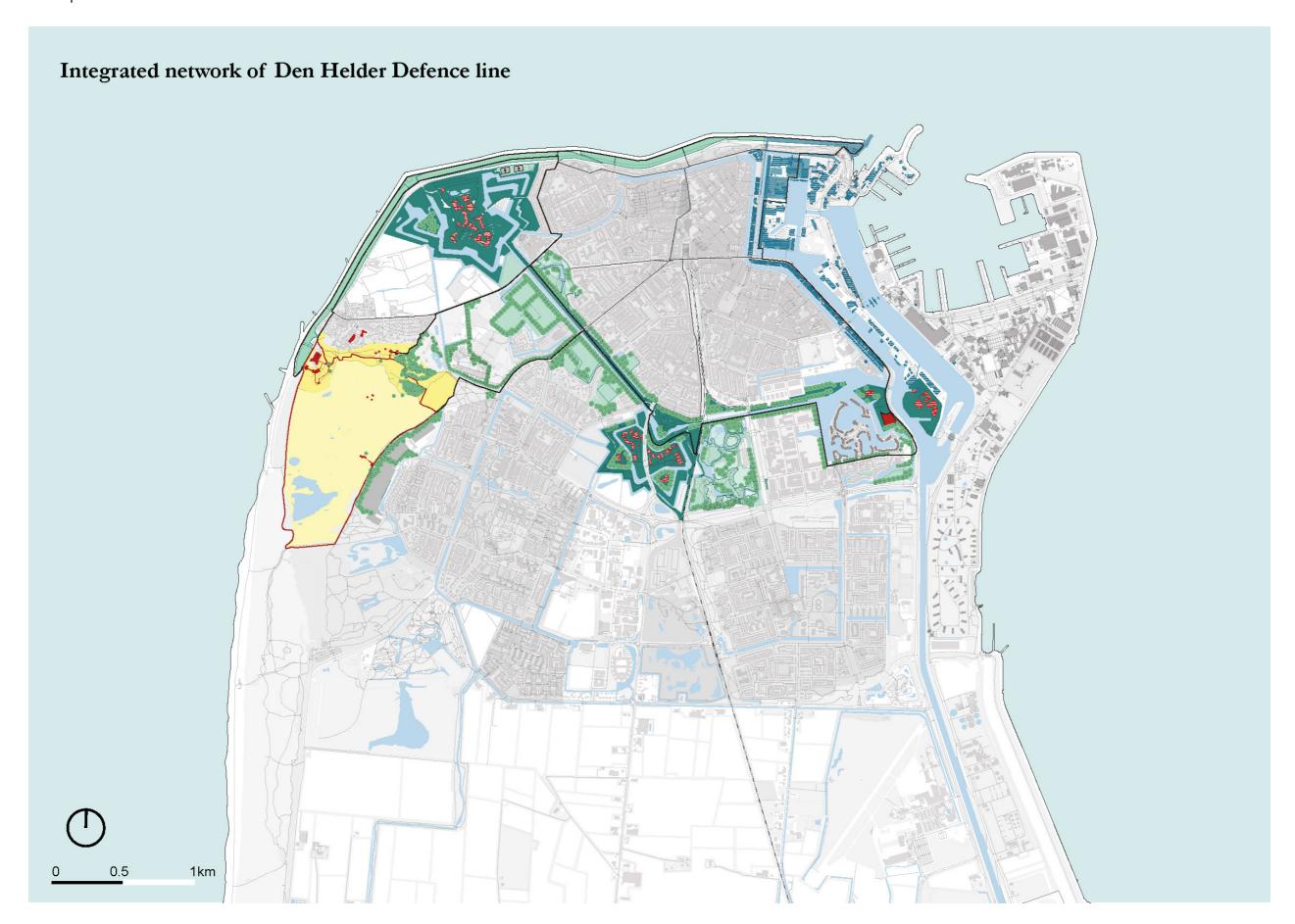
MANIFESTO&CONCEPT

DESIGN PROPOSAL

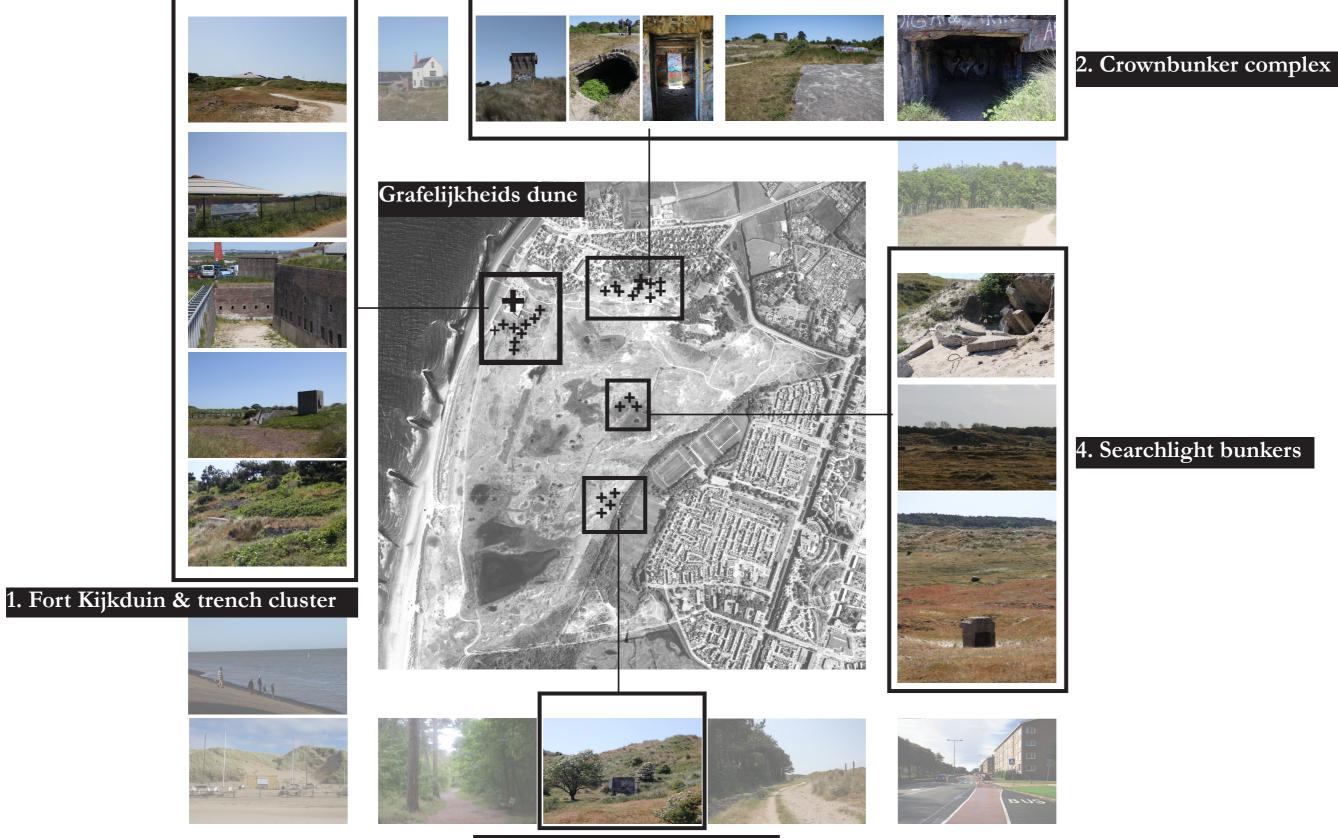
CONCLUSION & REFLECTION

Manifesto **DEN HELDER** comprehensive history **DEFENCE** LINE fresh memory NON-RUIN open attitude RUIN





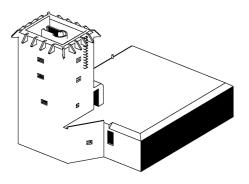
Dune of ruins



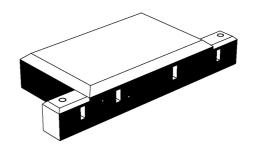
3. Backup-support bunkers

Atlantic wall bunker typology

Level 1 - Permanently bunker: most important and strong





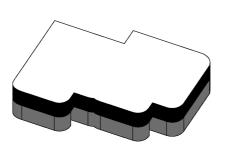


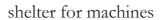
watch tower

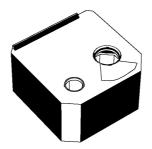
signal station

casemate

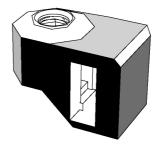
Level 2 - Reinforced bunker: lightly armed and defensible





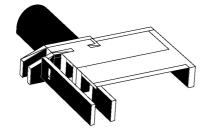


shelter for gun

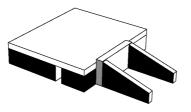


casemate

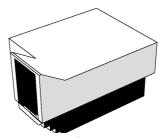
Level 3 - backup support bunker: supporting service, fragile



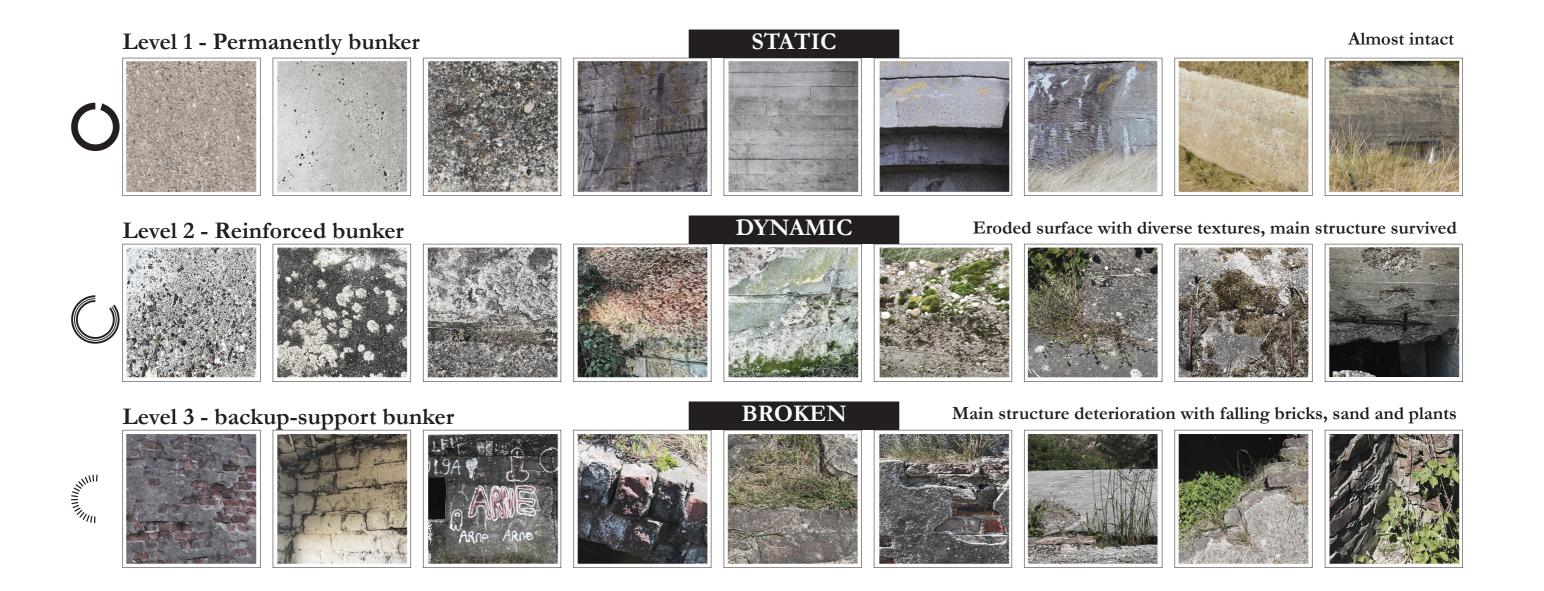
wash house



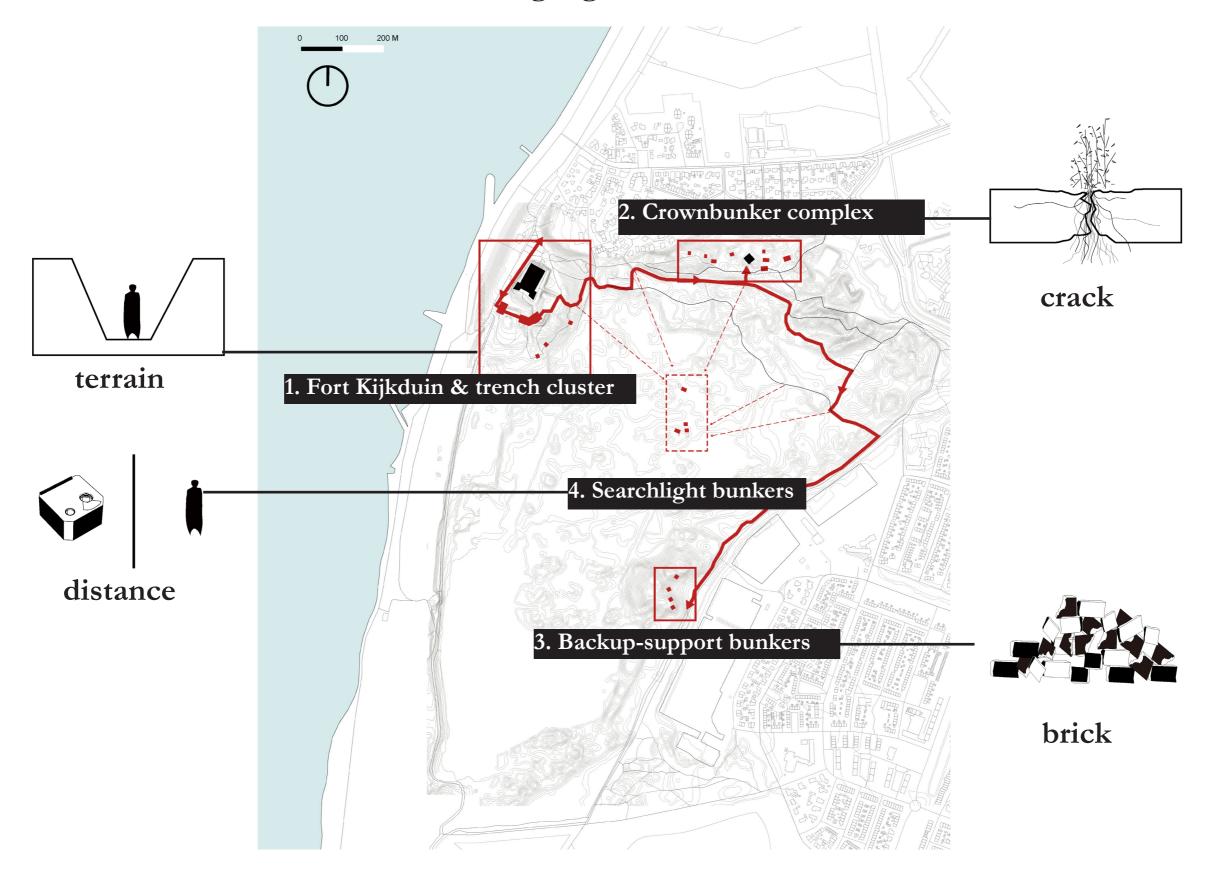
parking lot



water tank



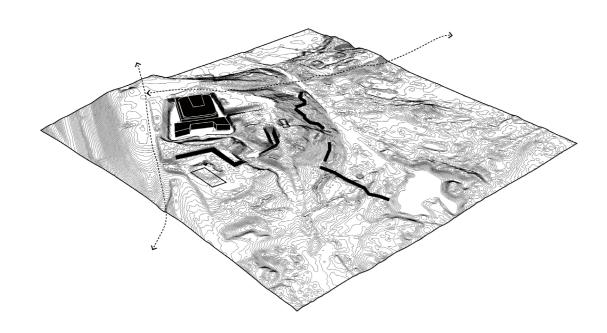
Language of ruins



1. Fort Kijkduin & trench cluster

Atlantic wall ruins with

Terrain



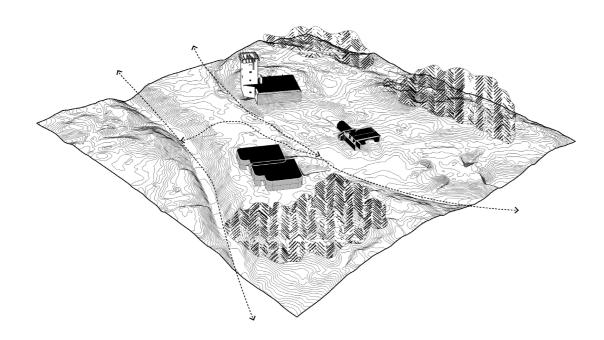
The sleeping ruin



2. Kroontjesbunker complex

Atlantic wall ruins with

Crack



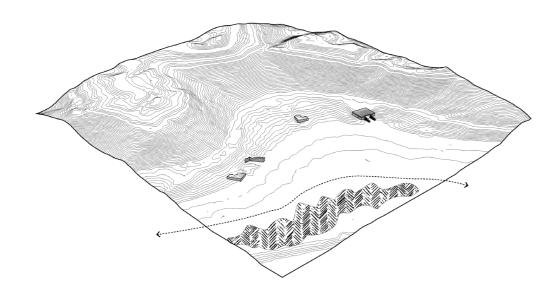
The growing ruin



3. Backup-support bunkers

Atlantic wall ruins with

Brick



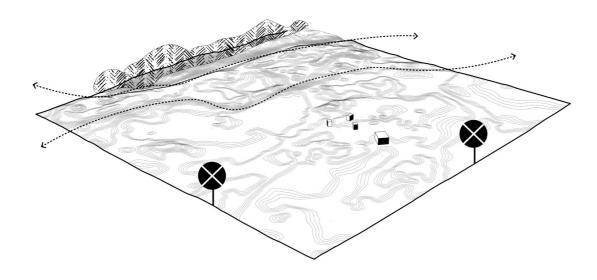
The drifting ruin



4. Searchlight bunkers

Atlantic wall ruins with

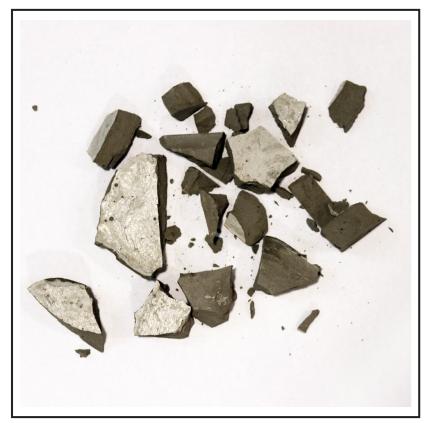
Distance



The inaccessible ruin



Conceptual prototype



Concrete

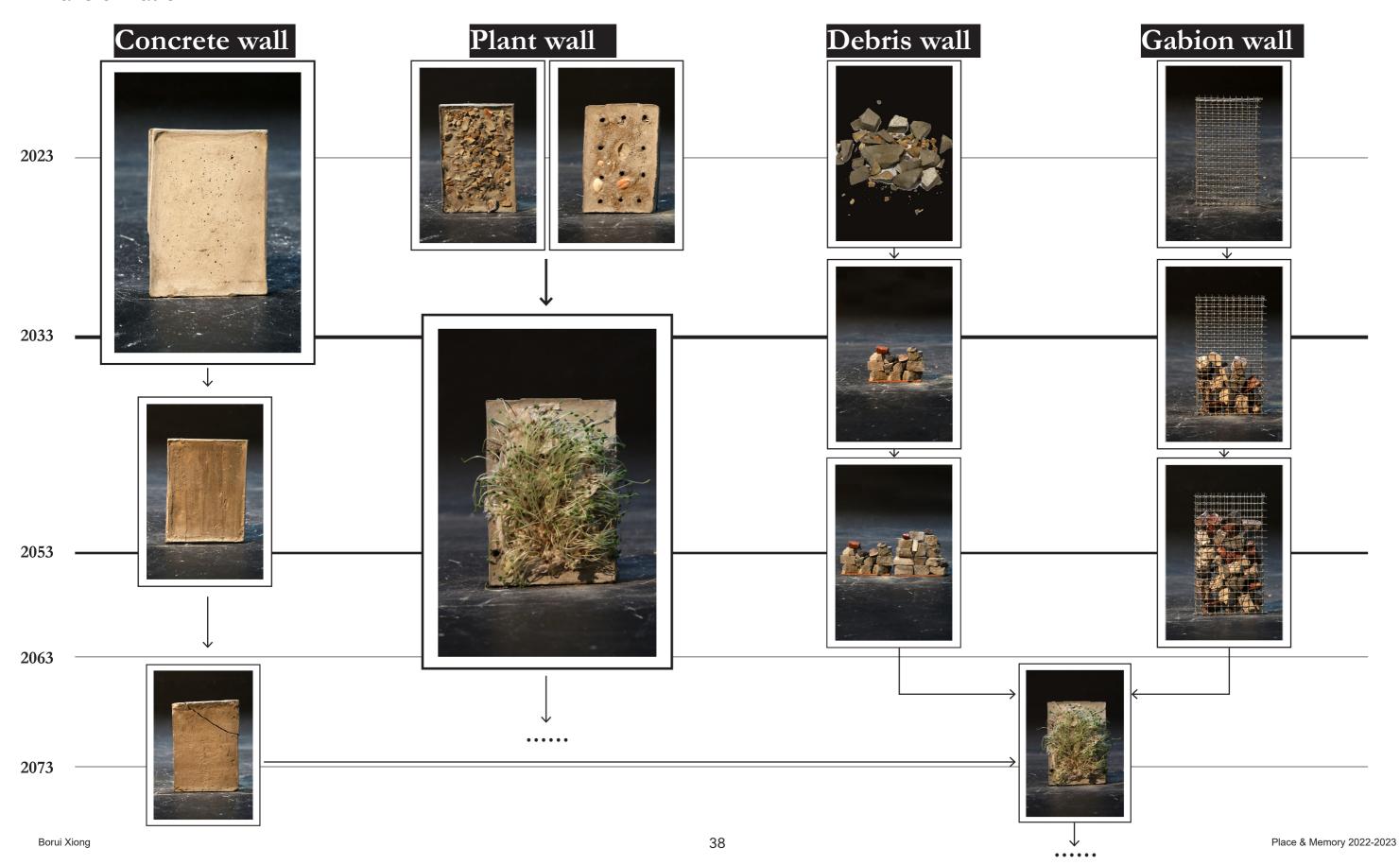


Local materials



Reclaimed bunker bricks and concrete

Transformation



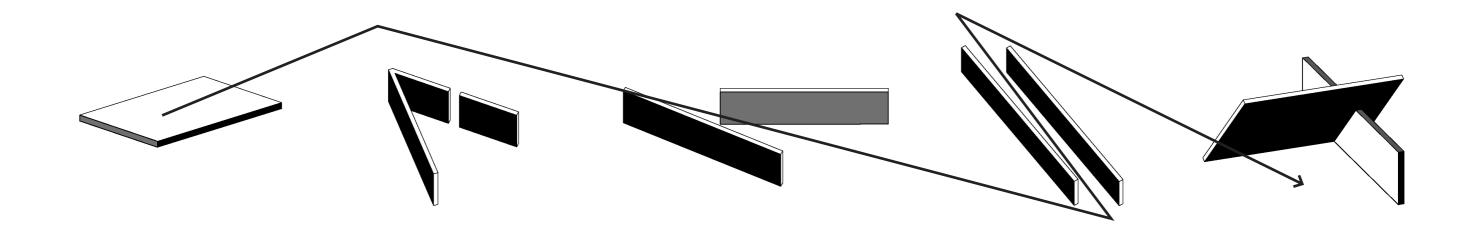
Concrete wall - Spatial combination



concrete wall is made of smooth and solid concrete



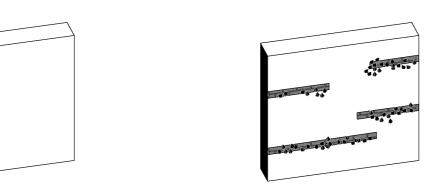
It can be used to shape various spatial relationship between people and ruins.



Plant wall - Time process

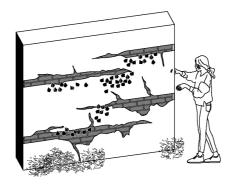


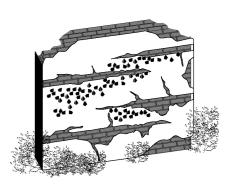
Plants will slowly intrude into the wall





Plant growth and cracks in the wall reflect the time process





Debris wall - Time process

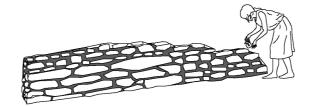


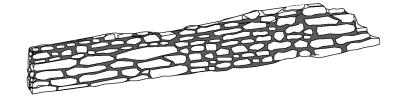
Reclaimed bricks and concrete blocks from the crumbling bunkers are gradually being constructed as walls.



Residents from the surrounding community will also take part in the wall-building programme.







Borui Xiong Place & Memory 2022-2023

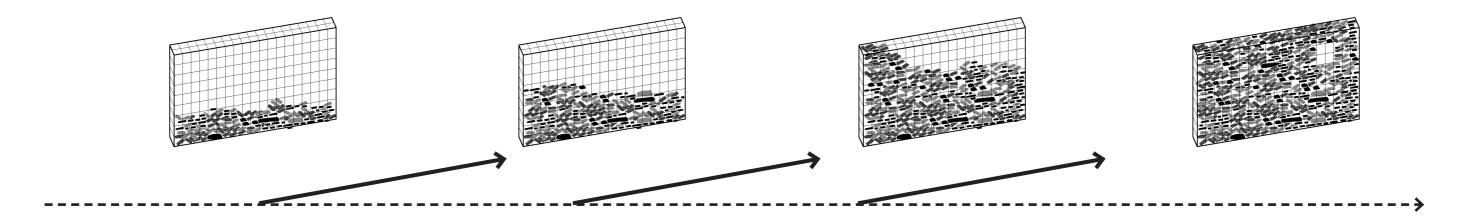
Gabion wall - Symphony of Time & Space



Reclaimed bricks from the crumbling bunkers are gradually filled into the gabion.



The growing gabion wall and the collapsing bunker



Borui Xiong Place & Memory 2022-2023

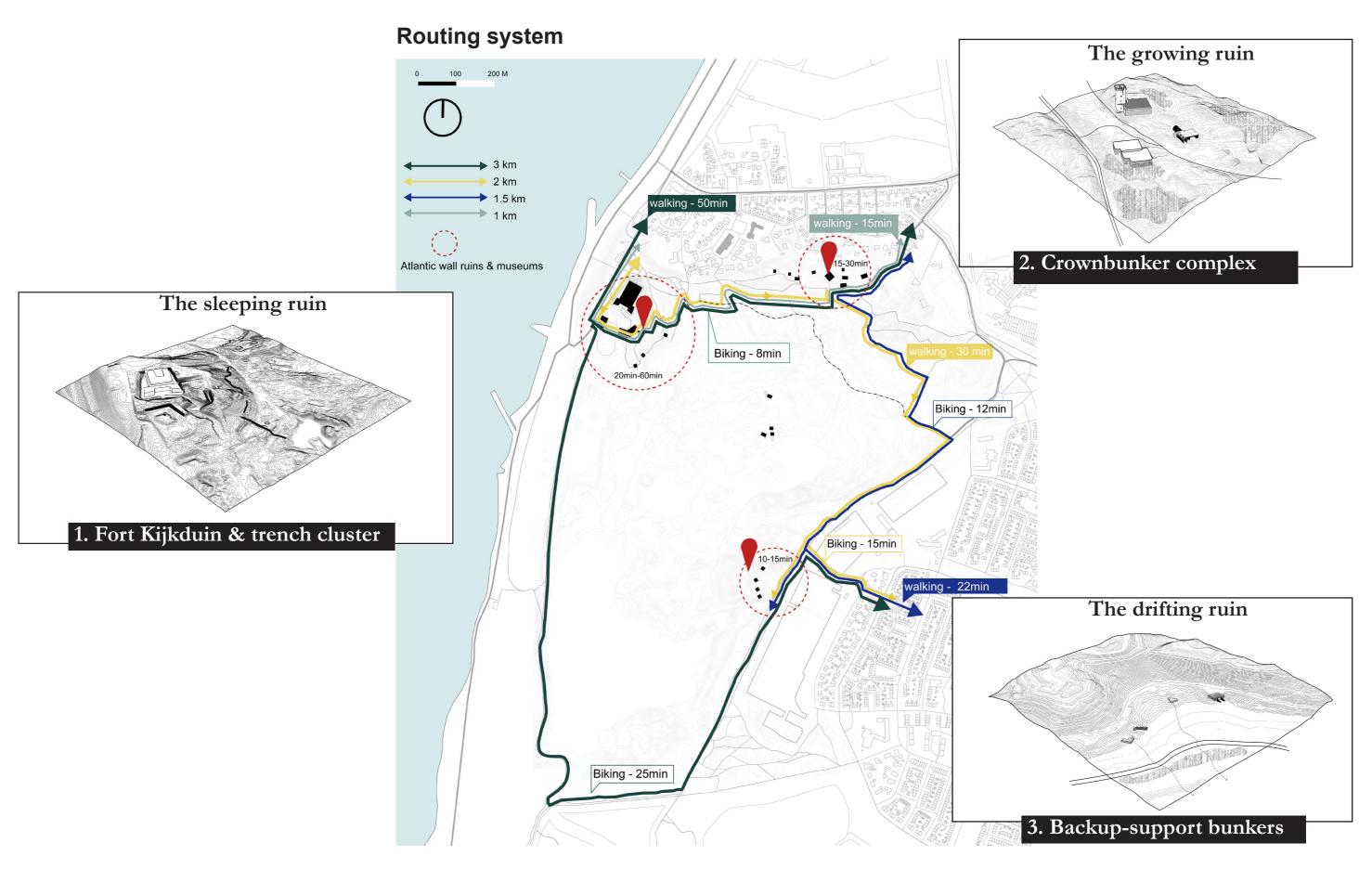
RESEARCH

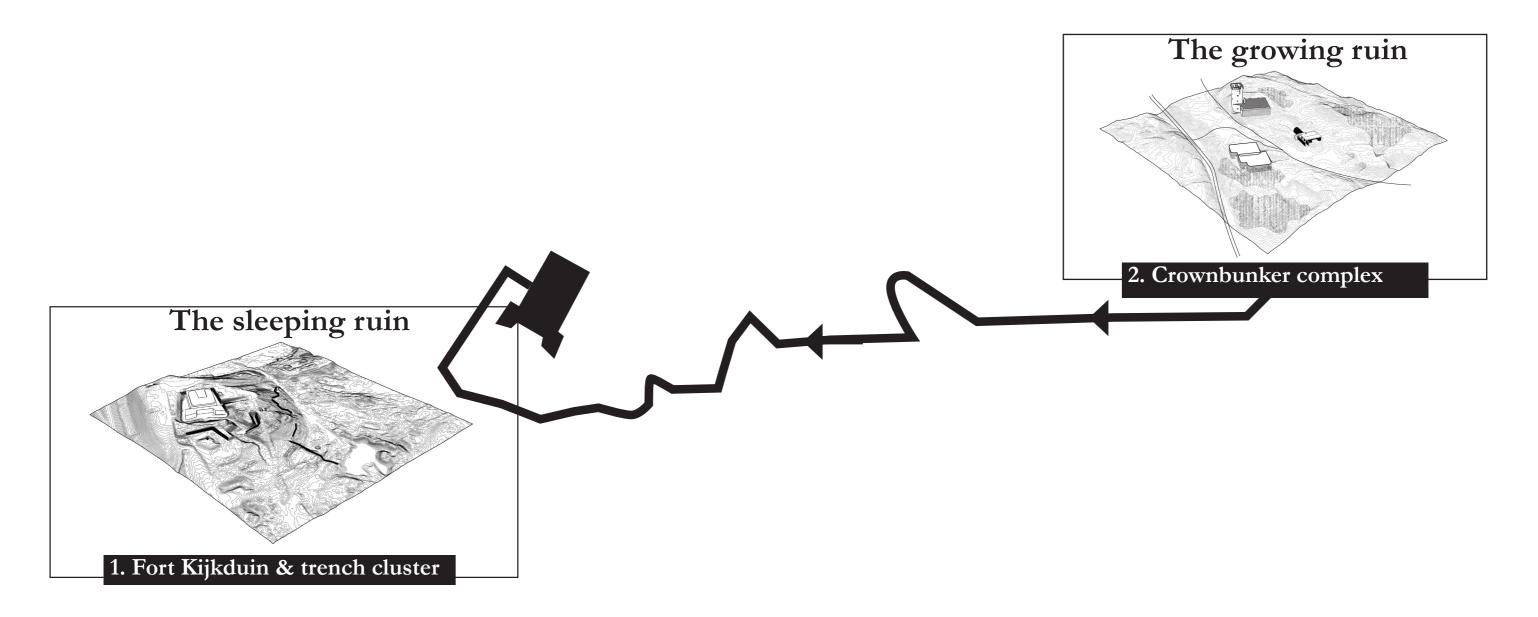
MANIFESTO&CONCEPT

DESIGN PROPOSAL

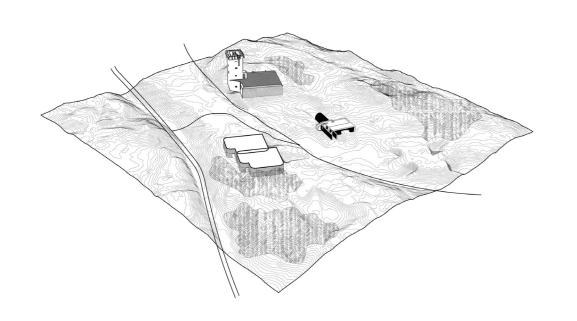
CONCLUSION & REFLECTION



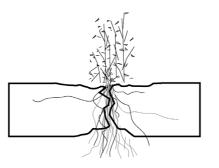




THE GROWING RUIN



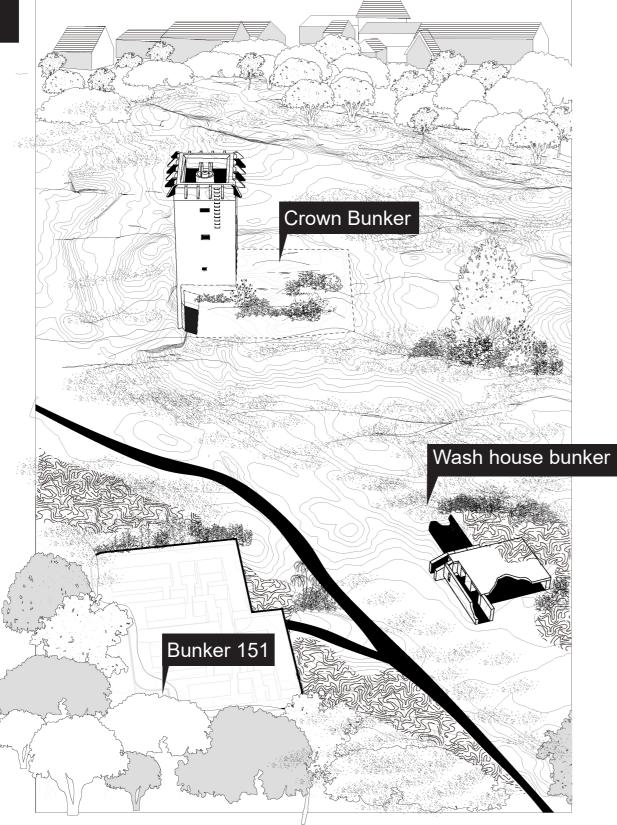






Get involved with the decaying process







level 1 - Fl250 (used to be a radar station, now function as museum, known as the crown bunker)

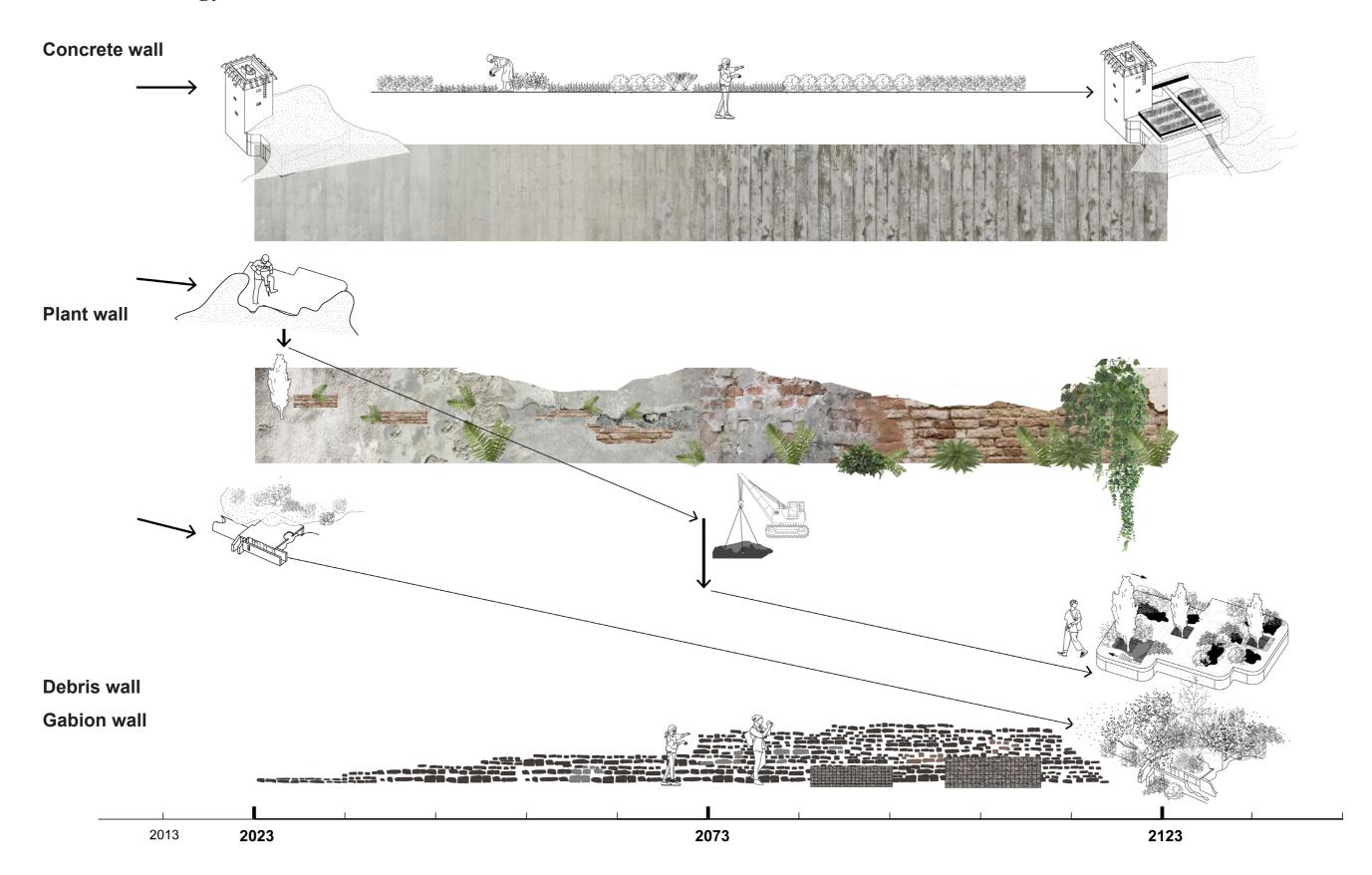


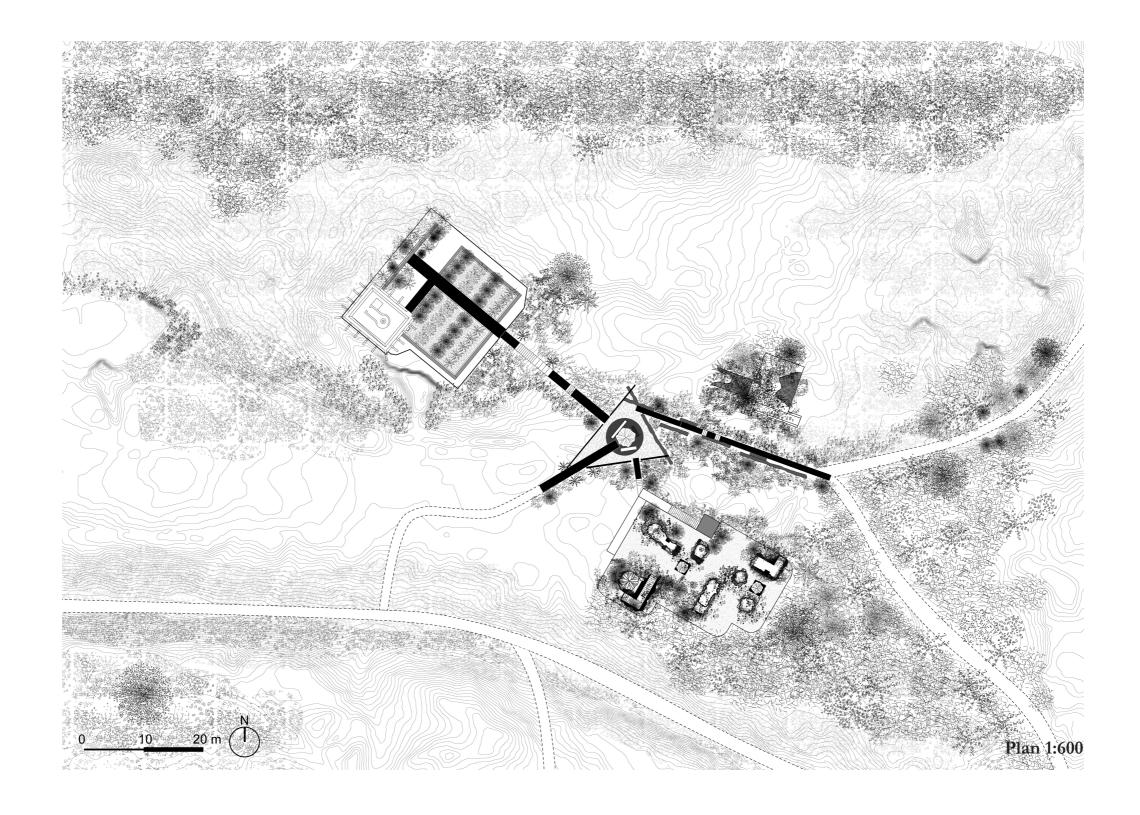
level 2 - M151 (used to be a shelter)



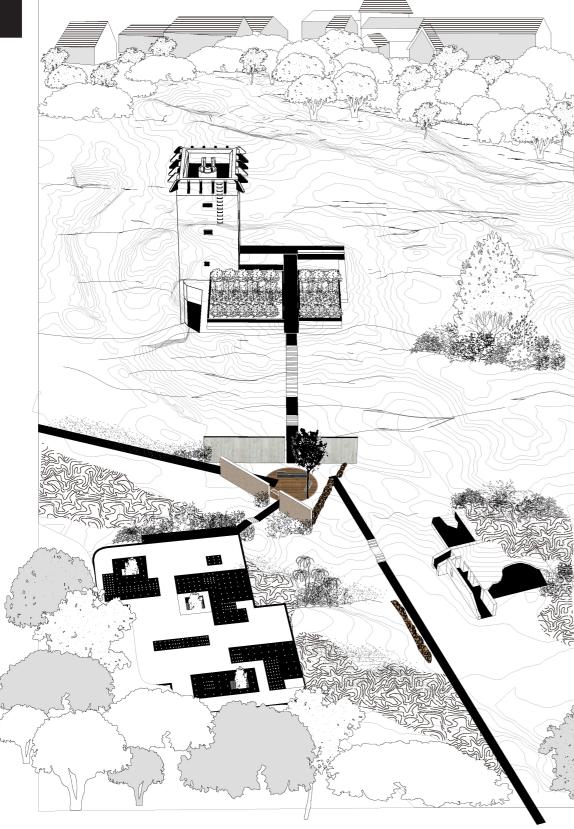
level 3 - Wash house (used to be a shelter and wash house)

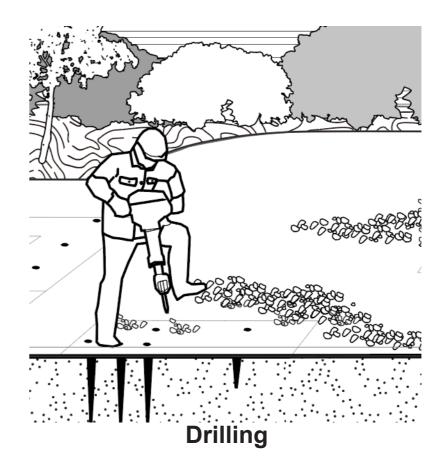
Intervention strategy

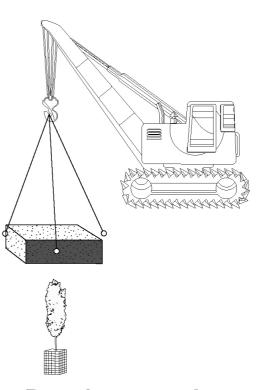




2023

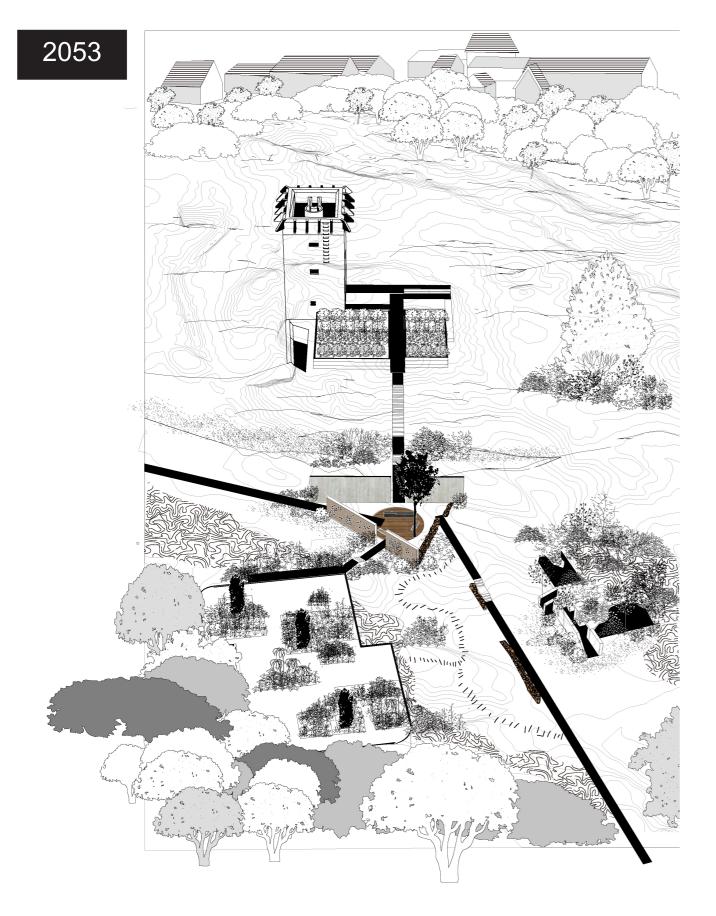


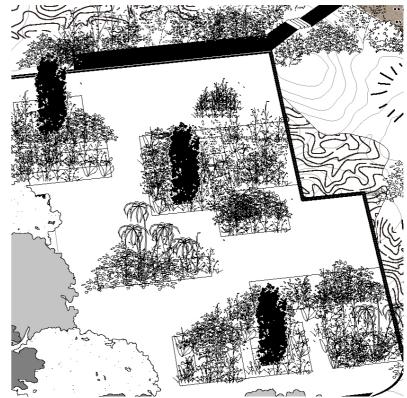




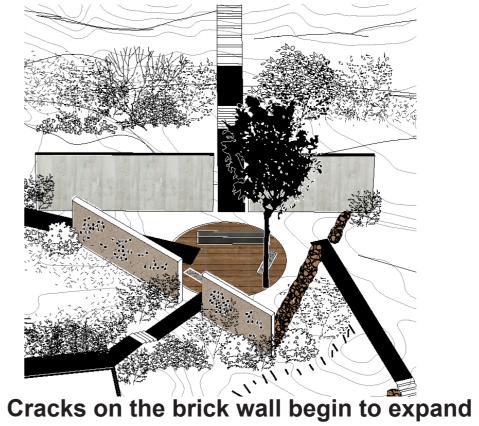
Populus tremula

design proposal The growing ruin

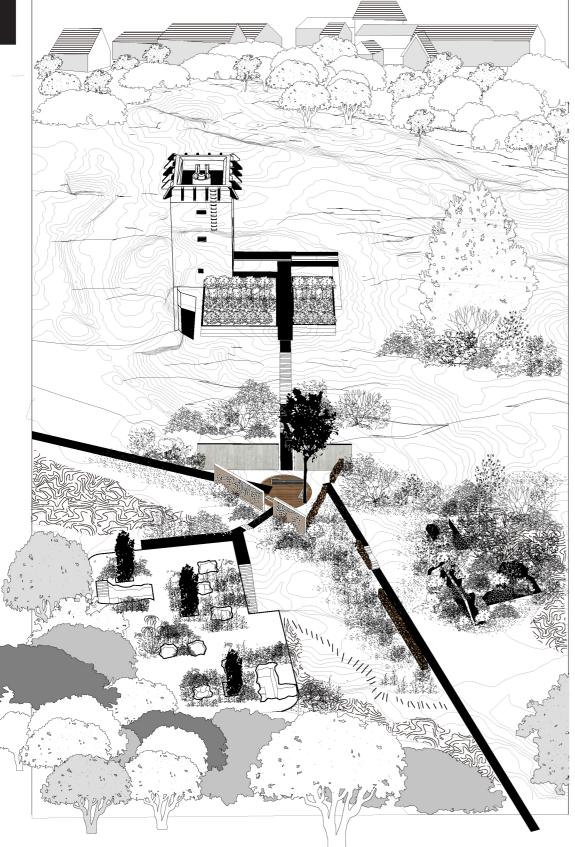




Plants gradually taking over the roof





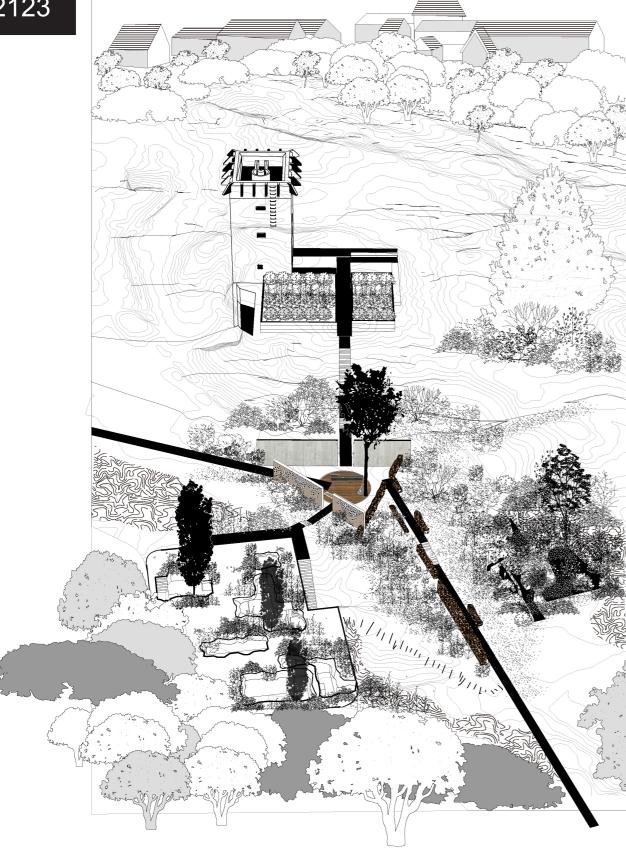




Reusing concrete from the roof to stack new walls

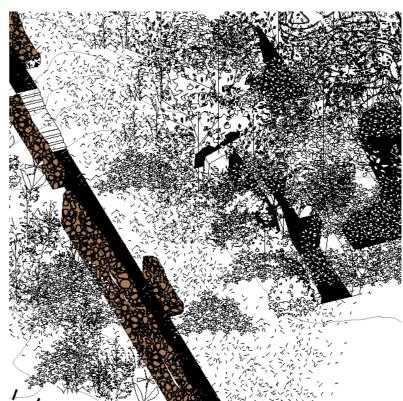
design proposal The growing ruin

2123





Scattered bricks and debris allow plants to grow

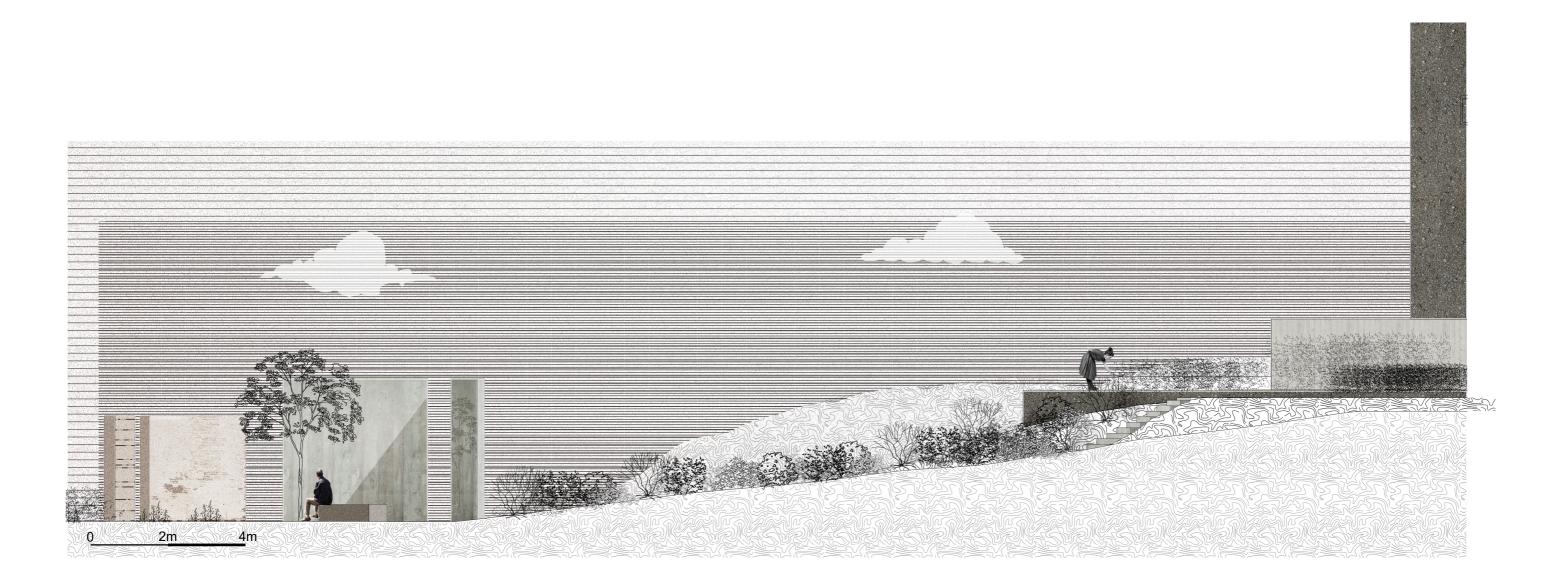


Bricks being stacked up as the debris wall or put into the gabion as bench.

Triangle of time

2023

The smooth concrete walls reflect the cracked walls and time flows between them.



2073

The plants slowly invade the bunkers and the removal of the underground bunker roofs begins, the fallen bricks will be used to stack up into new walls.



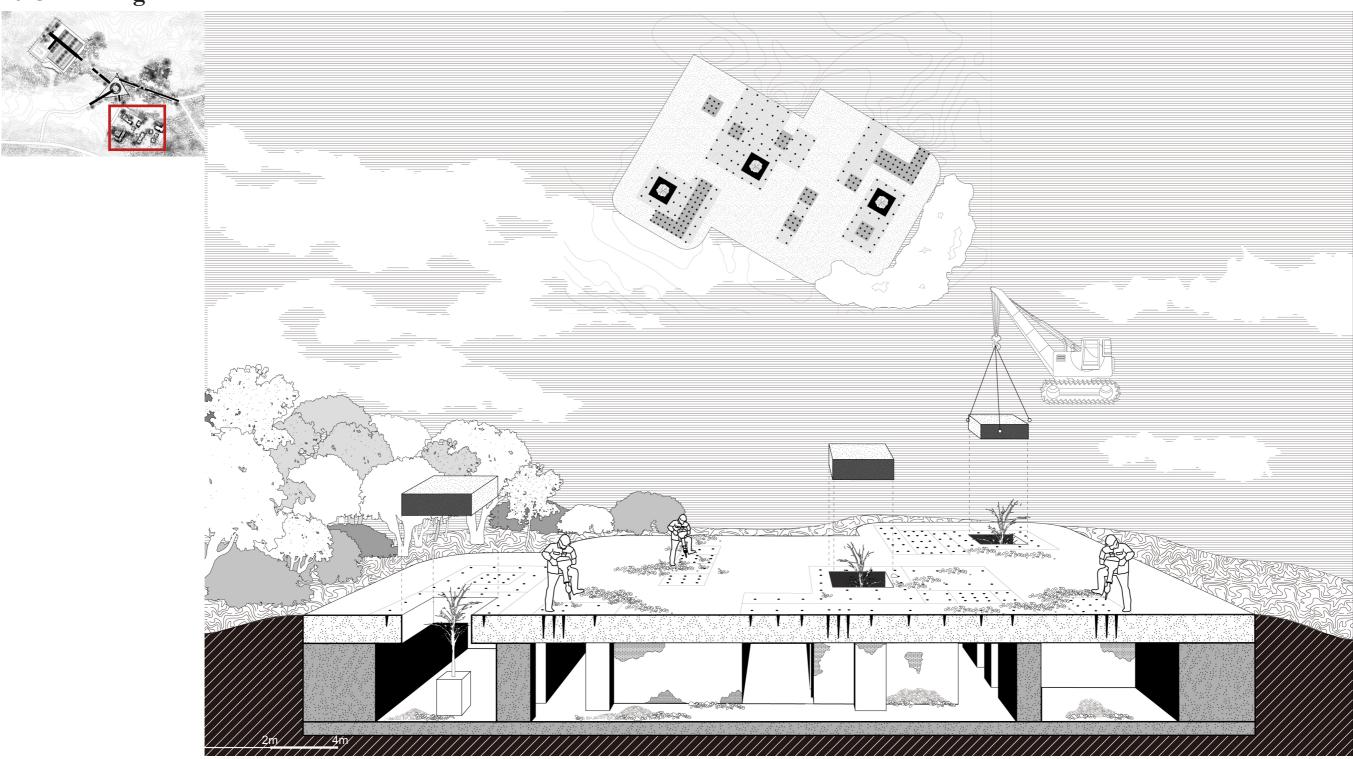
2123

The plants are gradually gaining ground on the brick wall, which displays more traces of decay, with the wall peeling off and the internal brickwork showing through.

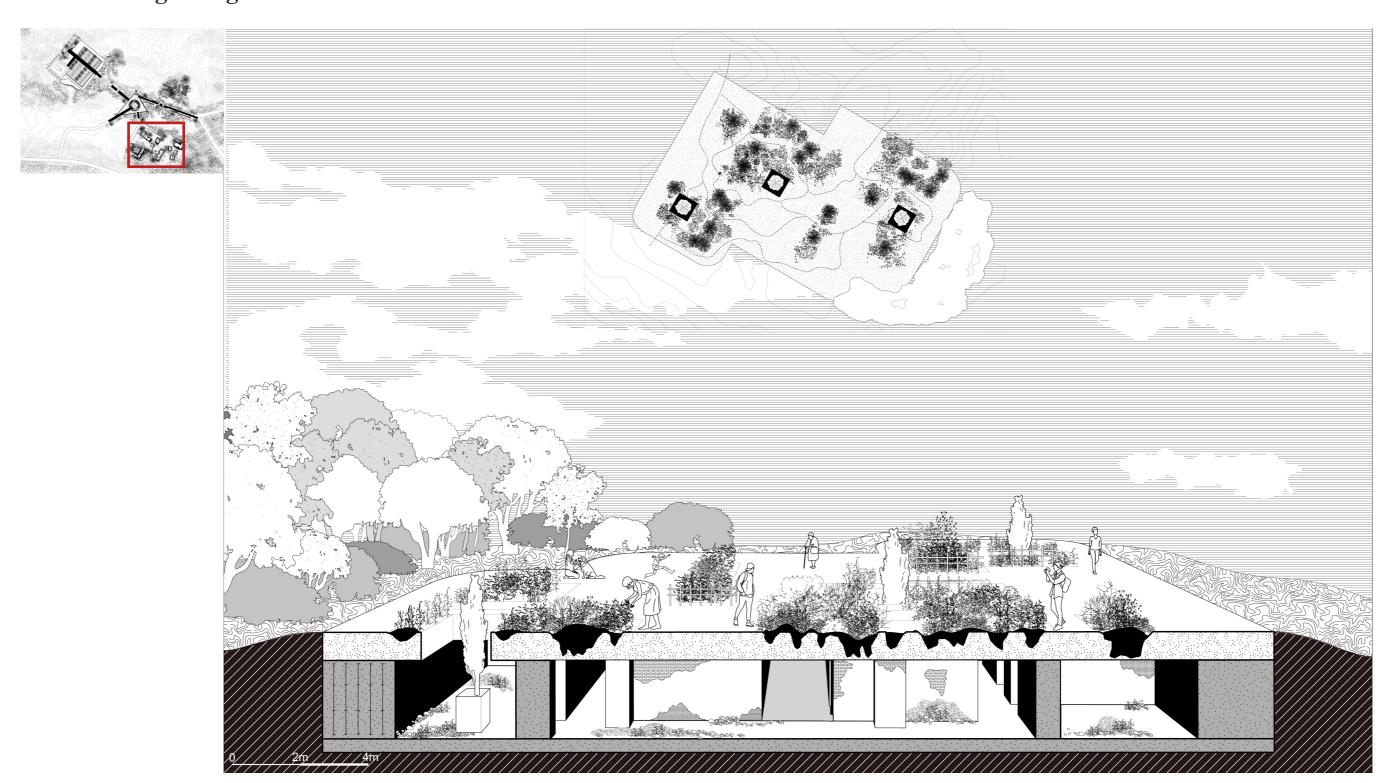


Bunker 151

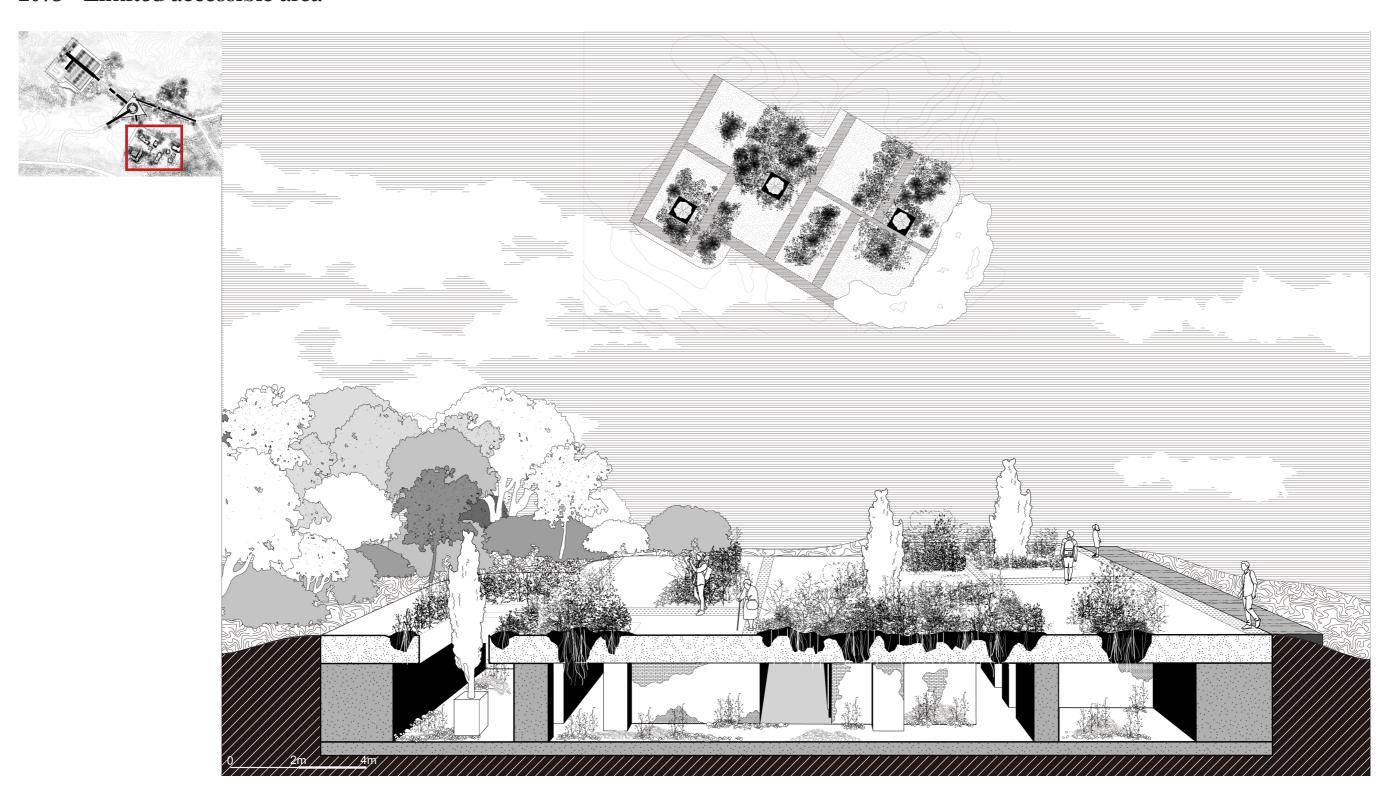
2023 - Drilling



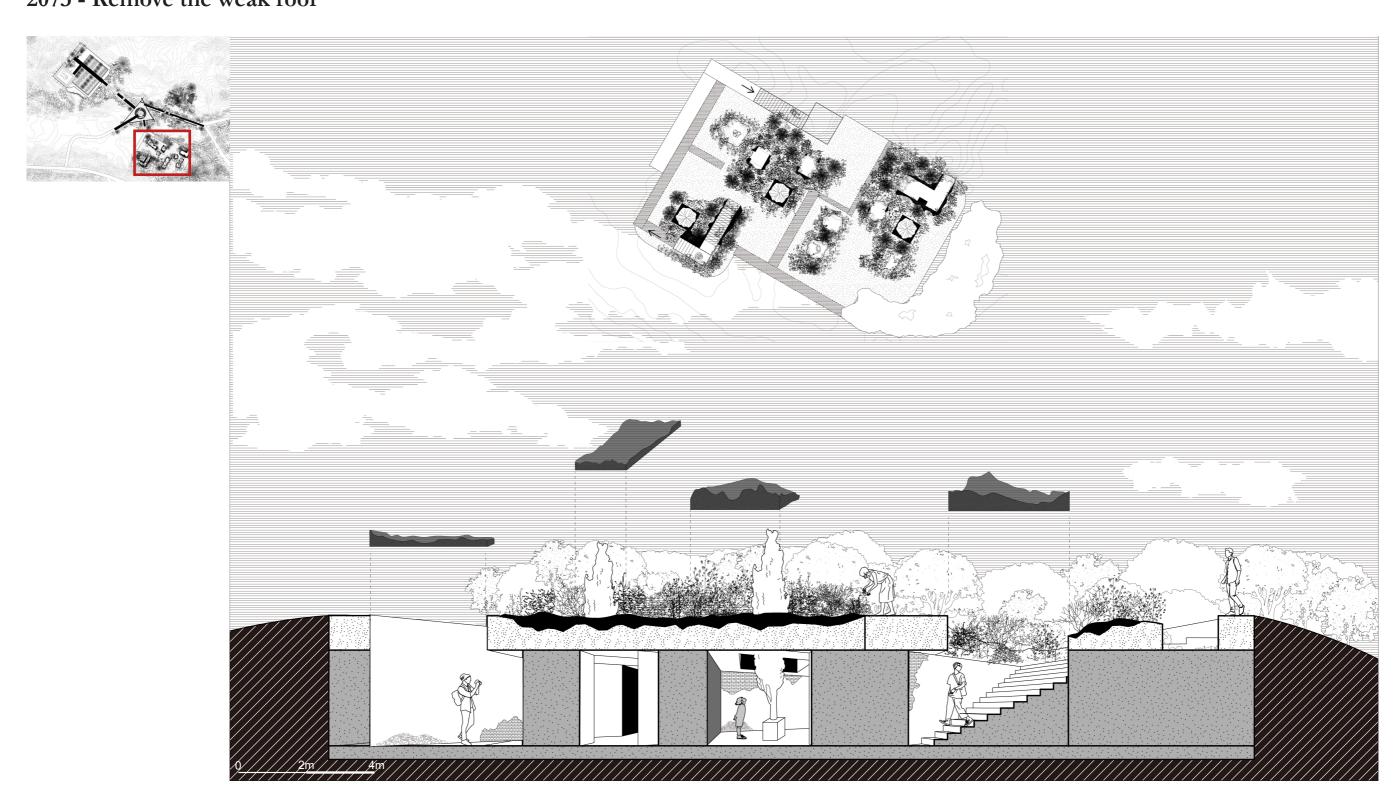
Bunker 151
2053 - Plants growing



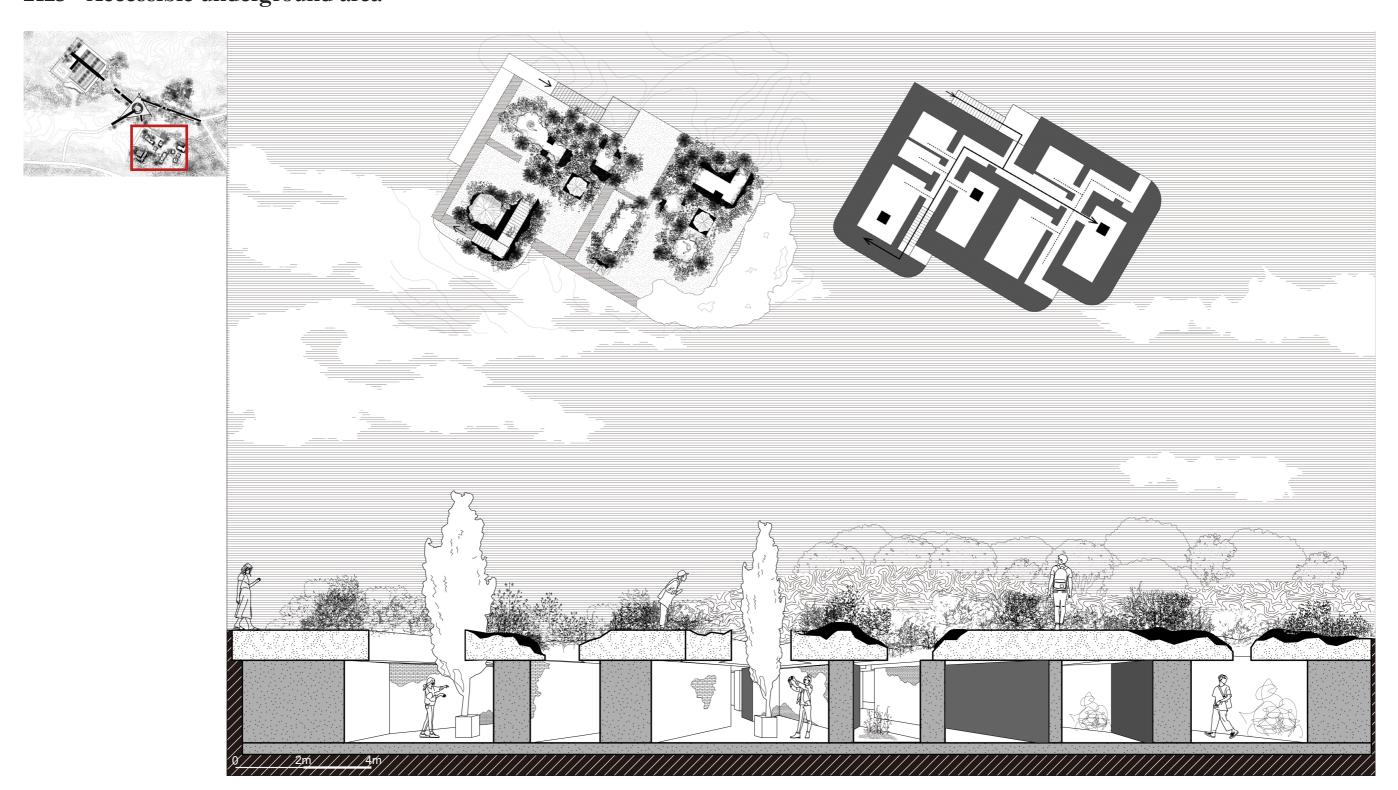
Bunker 151
2073 - Limited accessible area



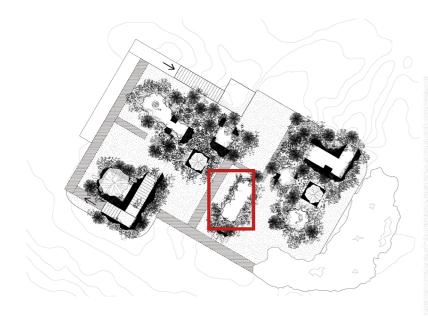
Bunker 151
2073 - Remove the weak roof



Bunker 151
2123 - Accessible underground area



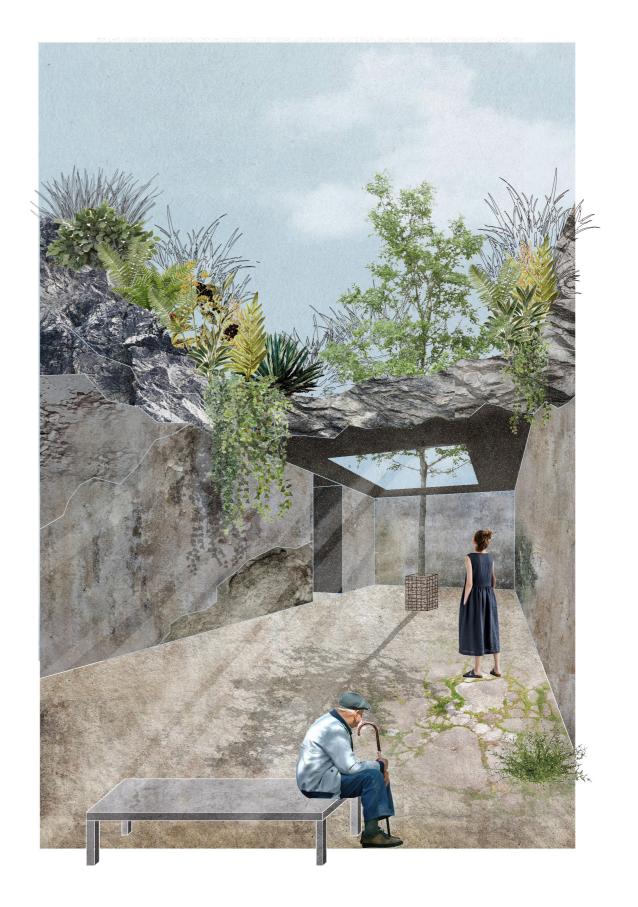
Bunker 151 Underground





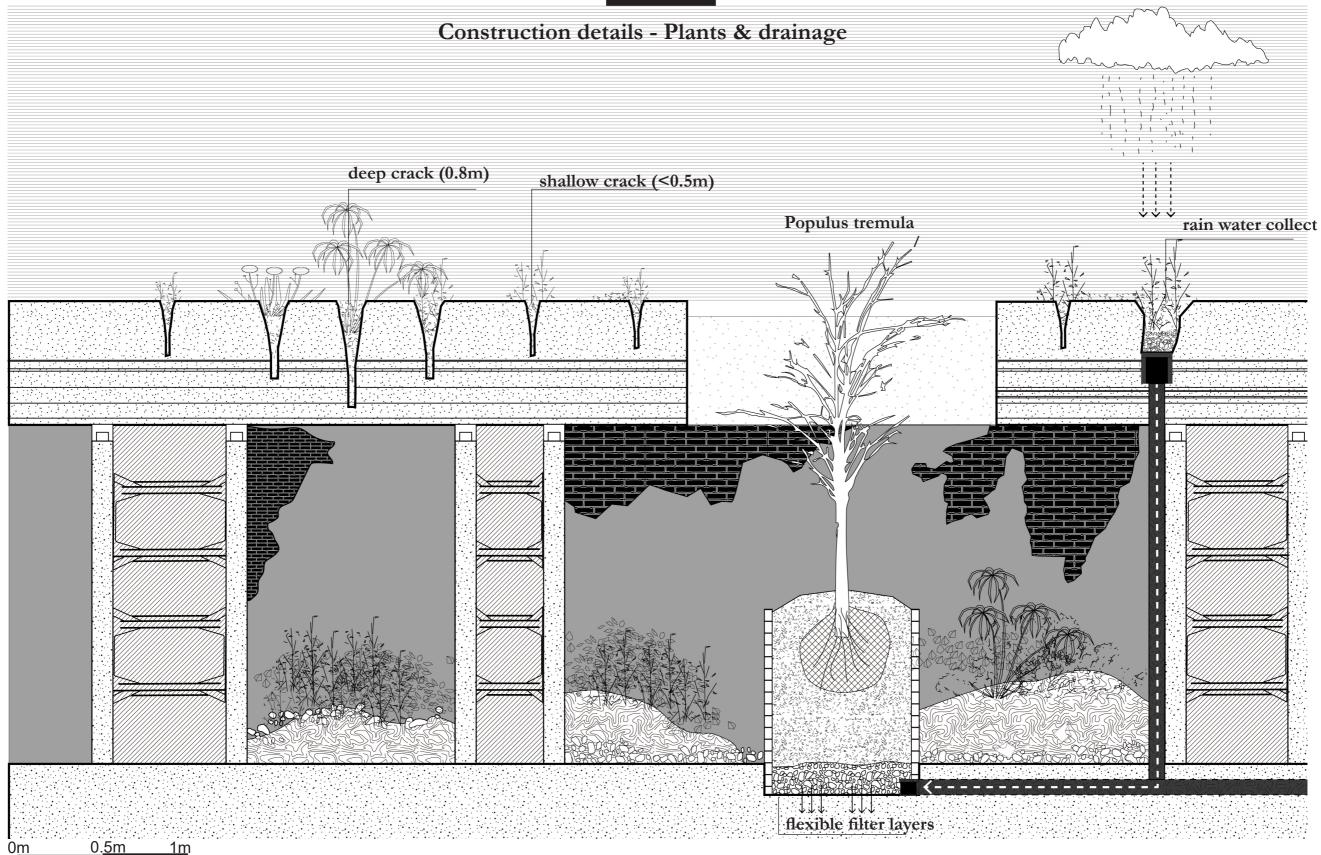
Bunker 151 Underground





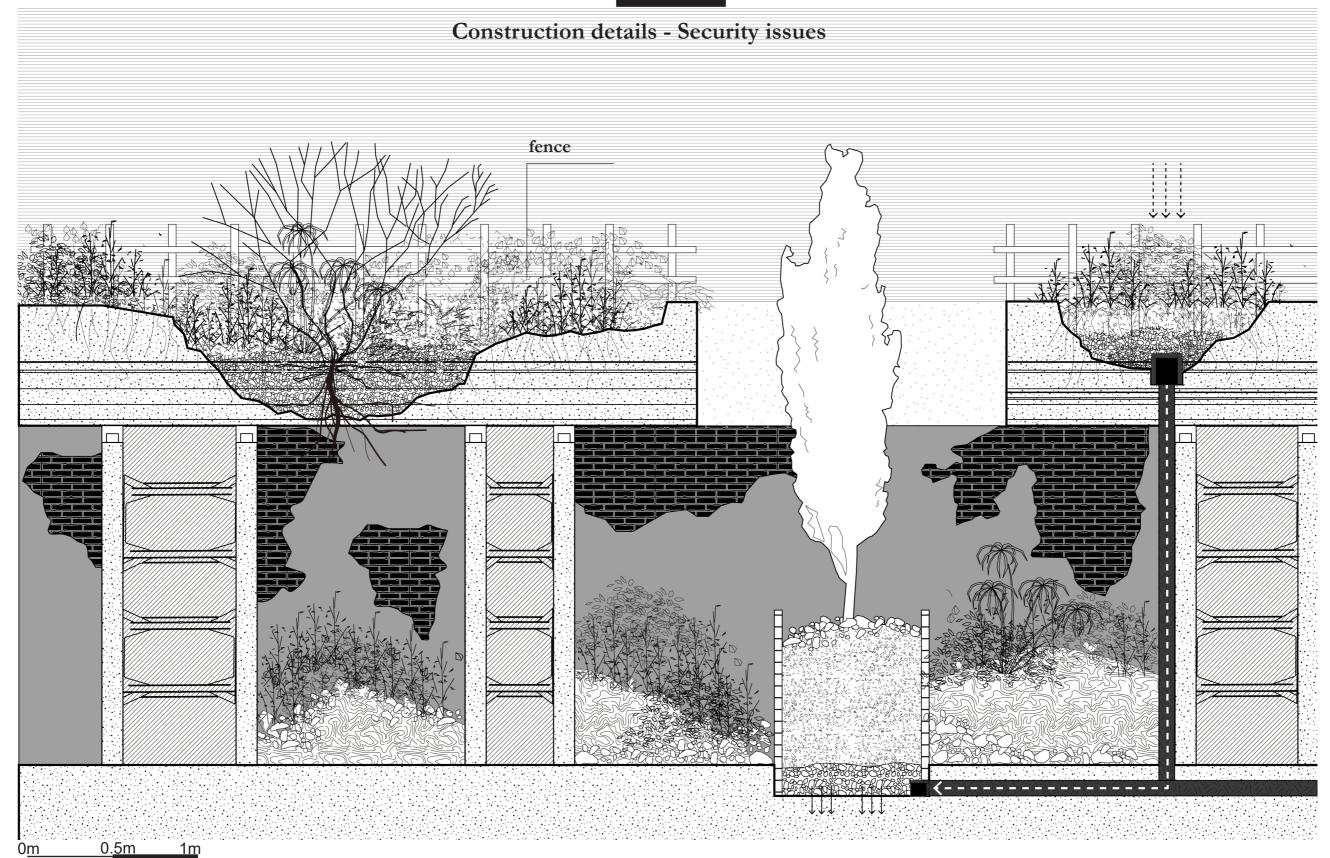


Bunker 151 2023



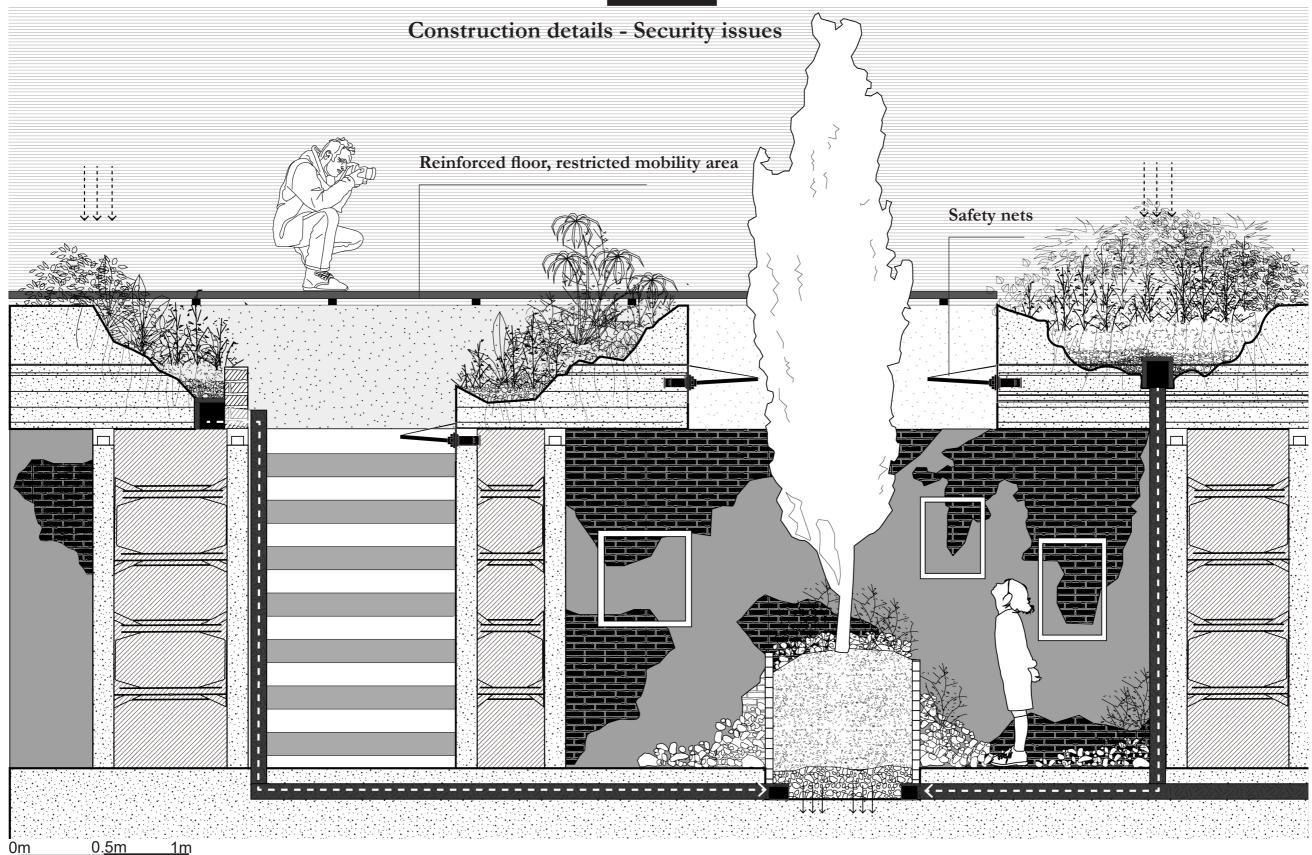
66

design proposal



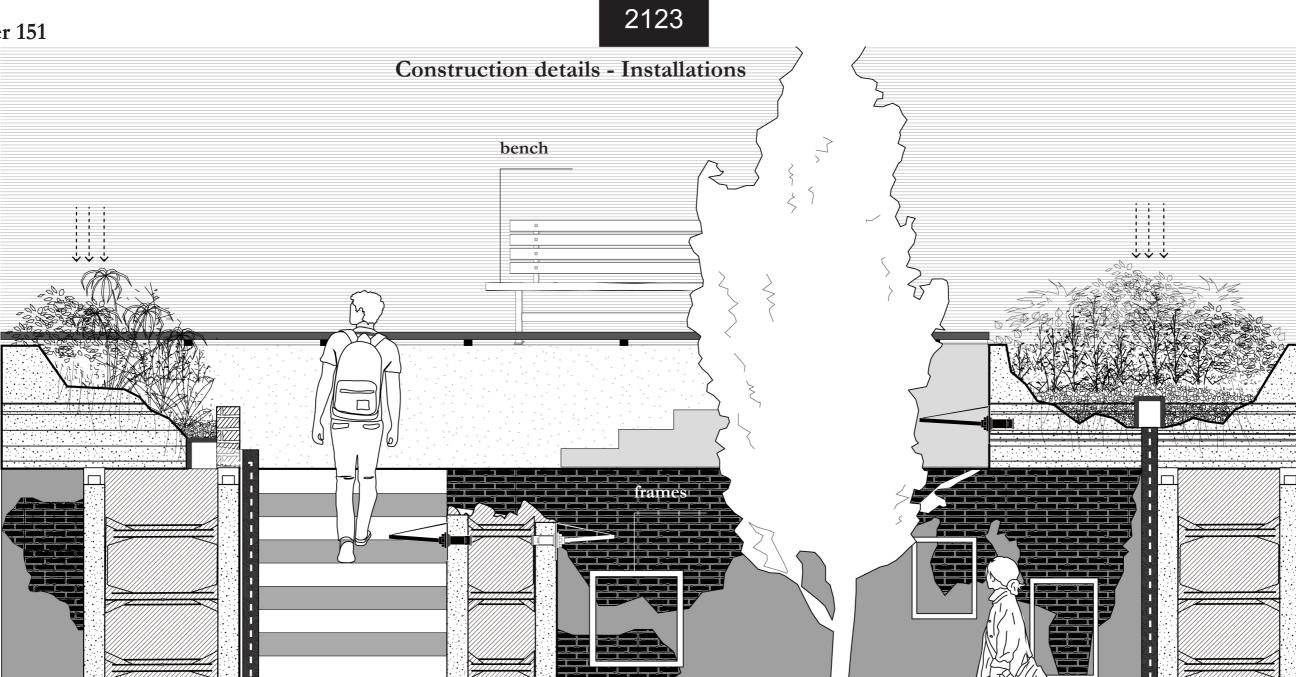
Bunker 151

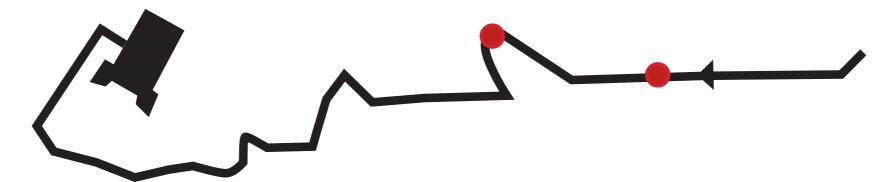
2073



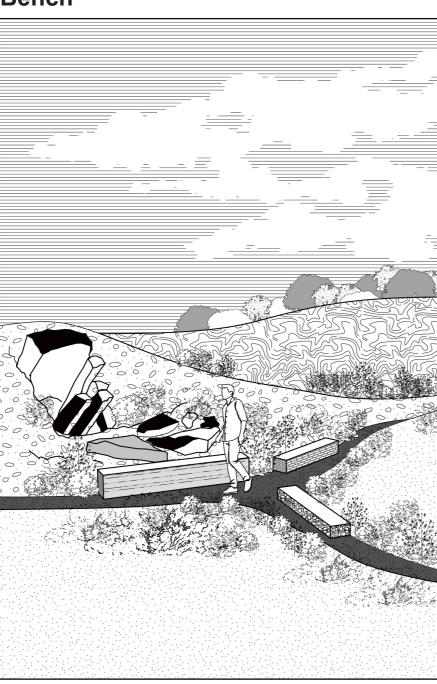
Bunker 151

0.<u>5m</u>

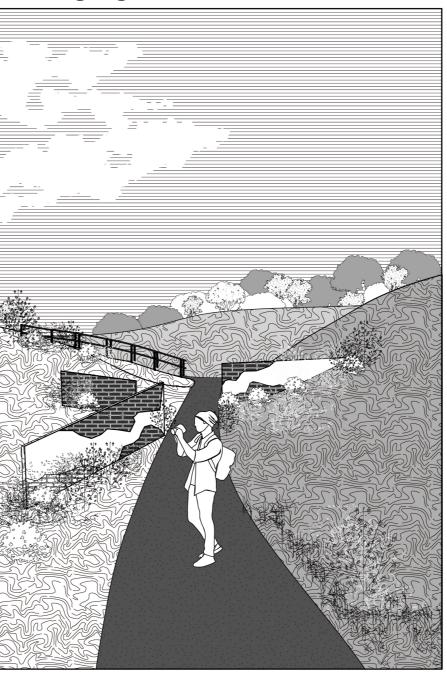




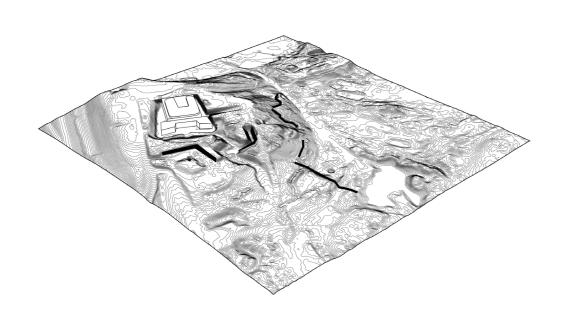
Bench



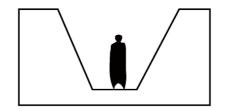
Guiding sign



THE SLEEPING RUIN

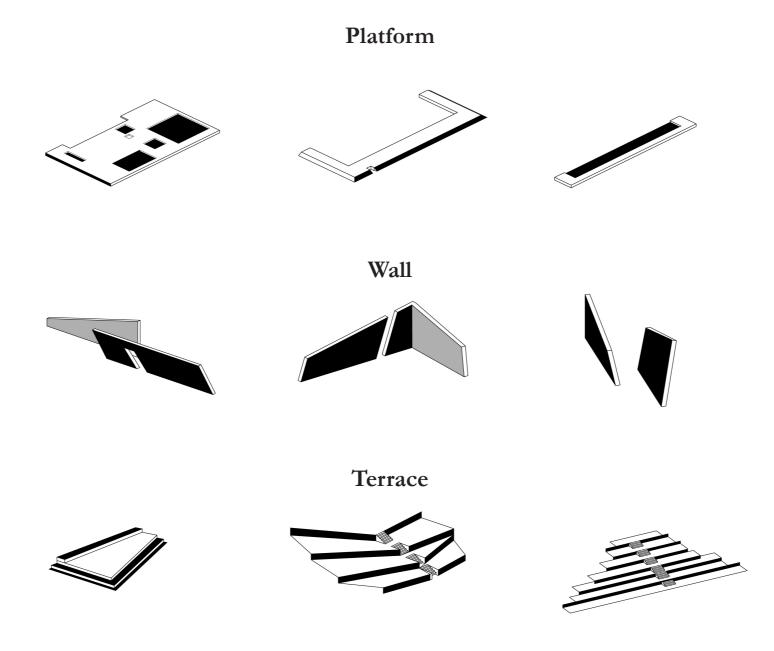


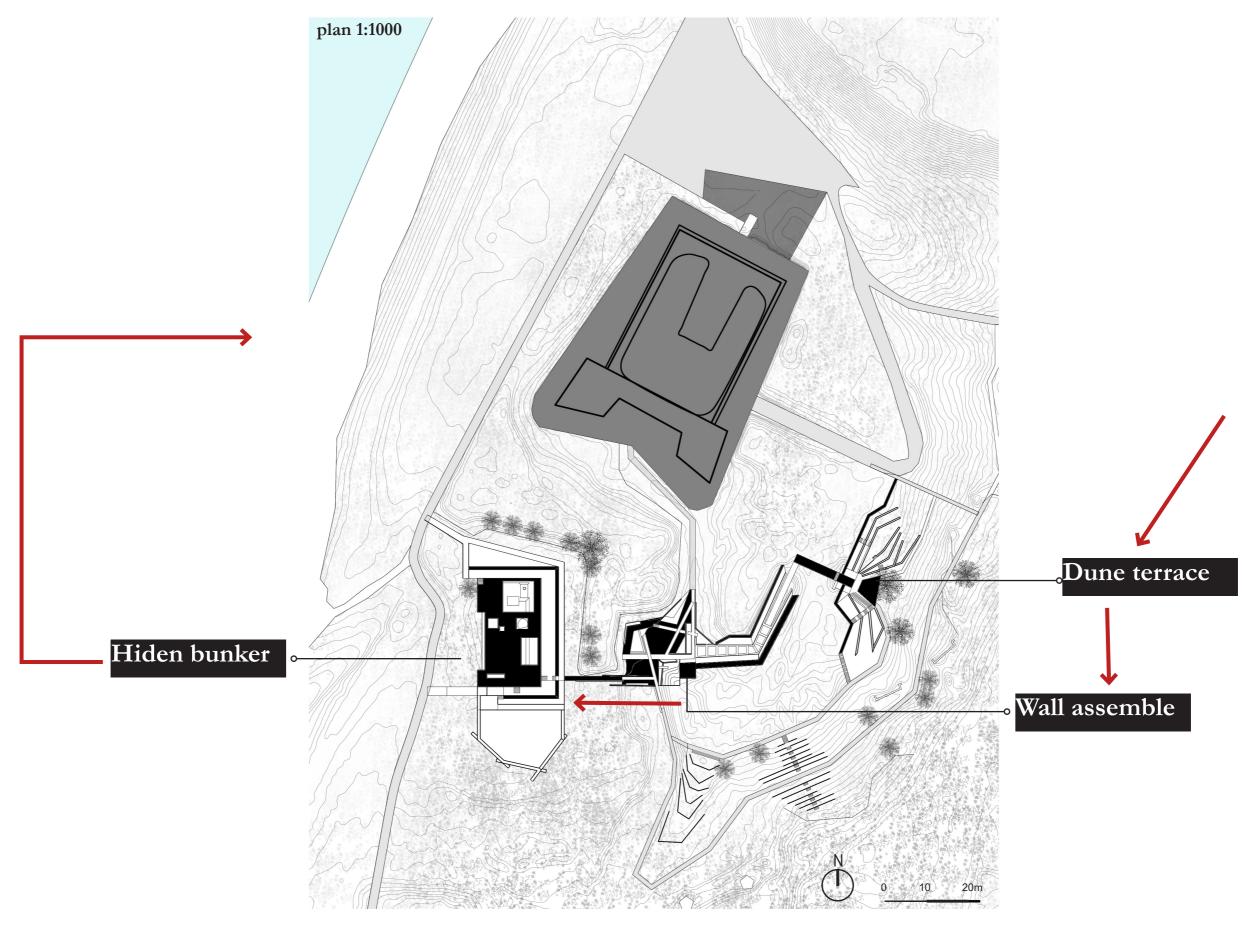




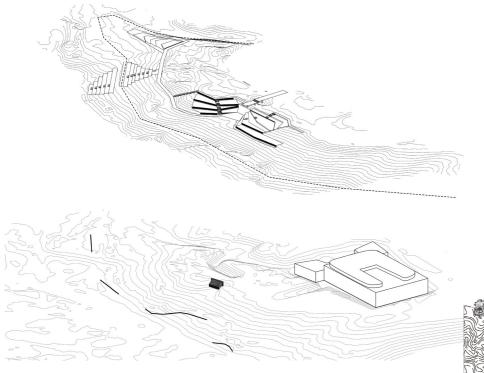


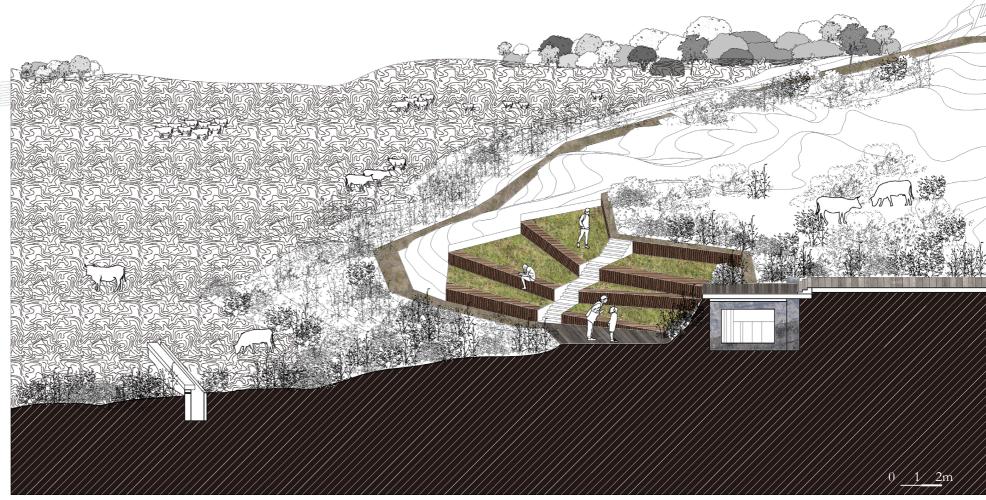
Walk through the history

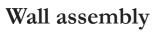


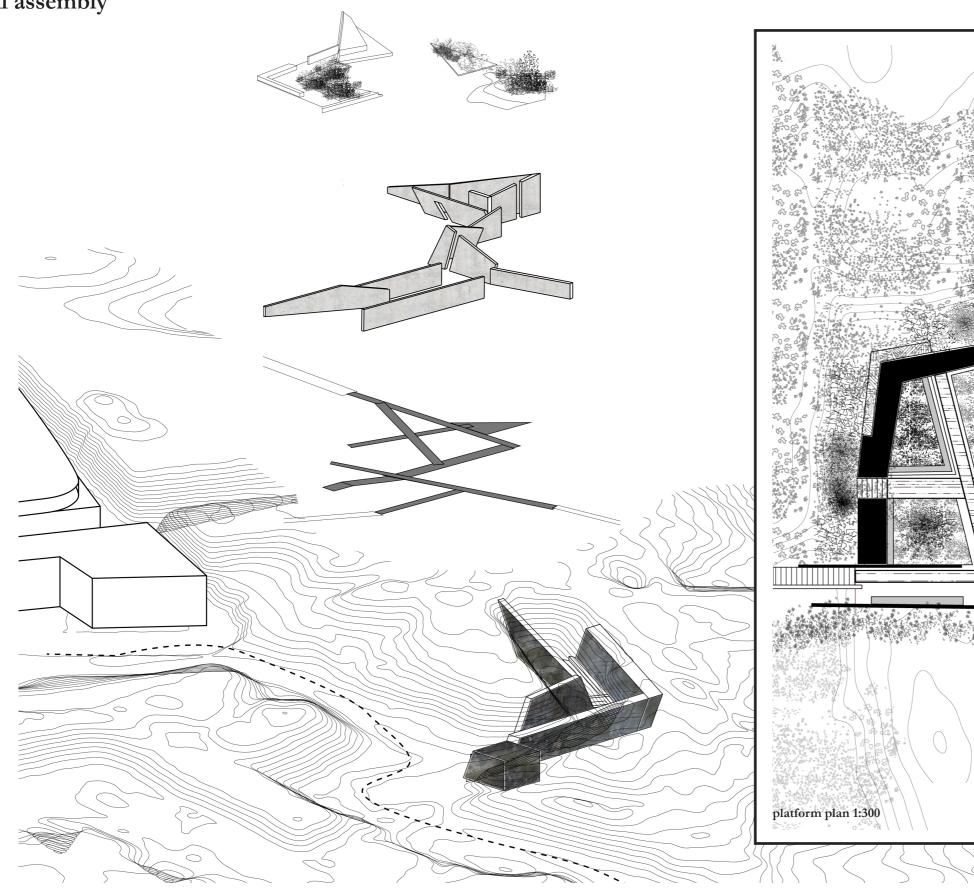


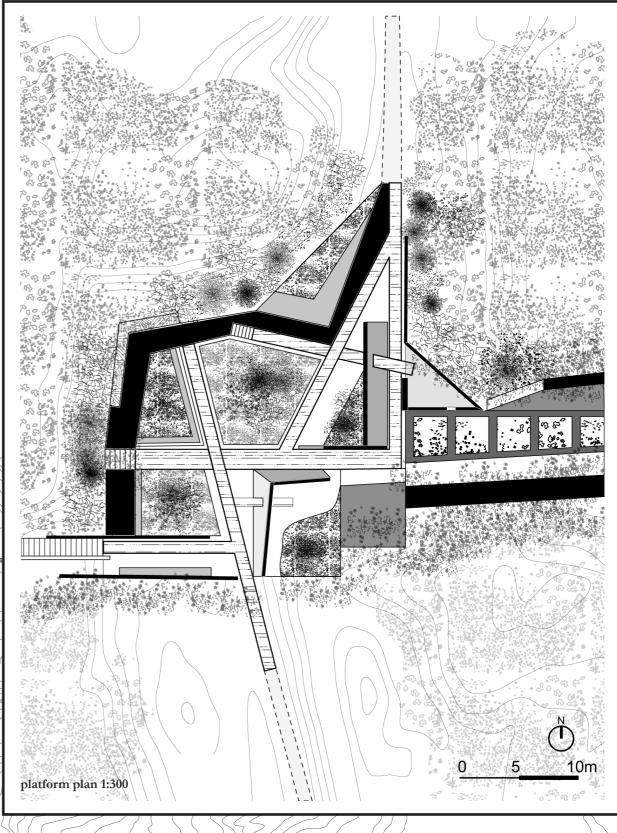
Dune terrace

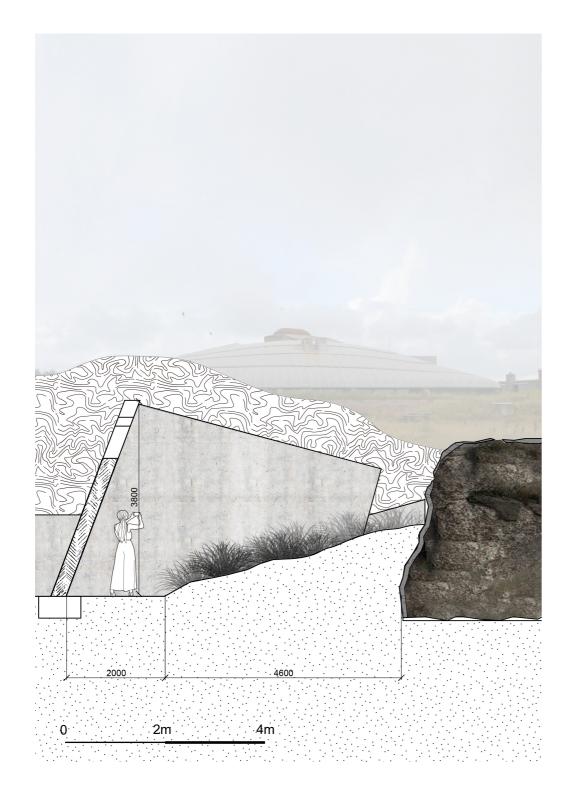


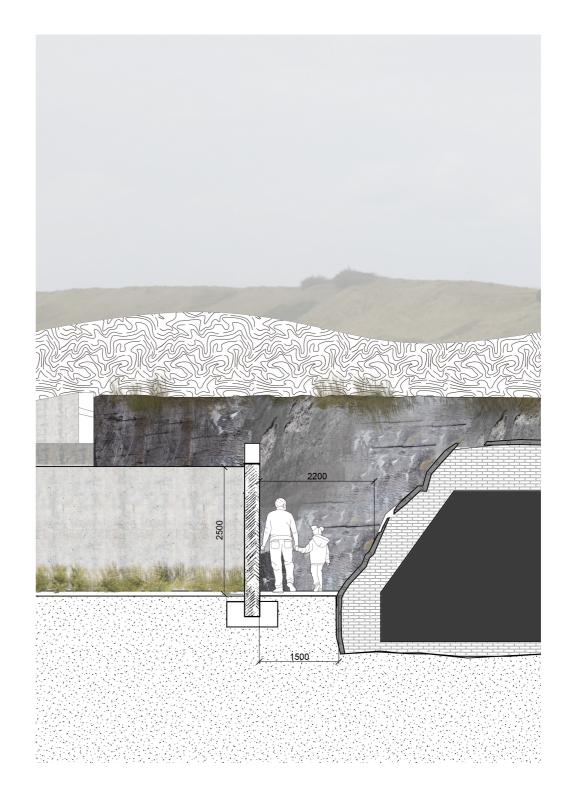


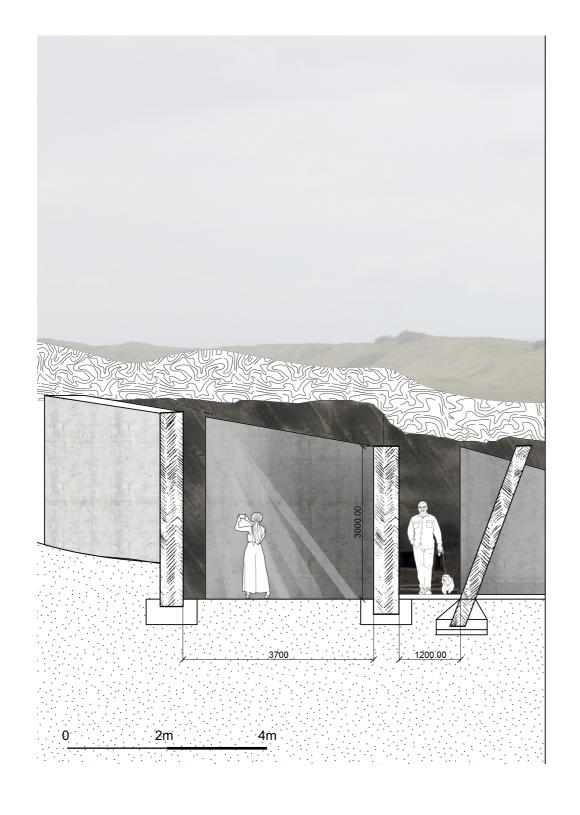


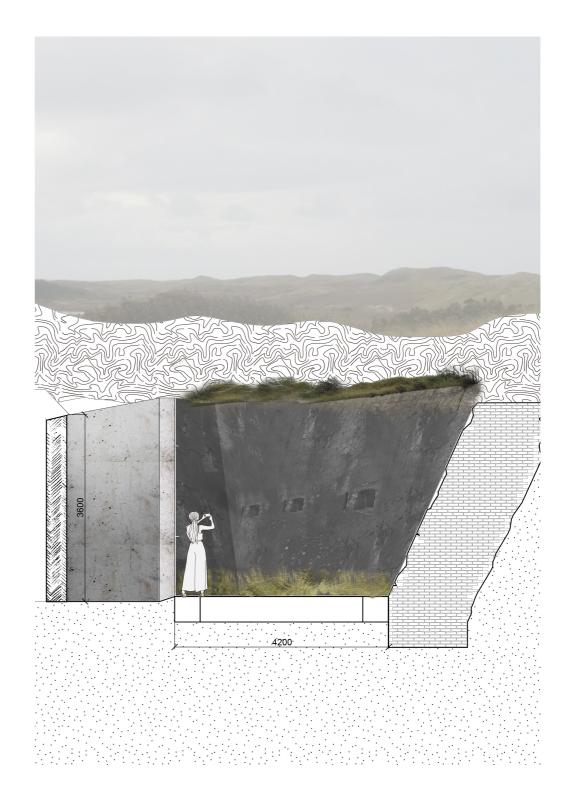














Gathering point



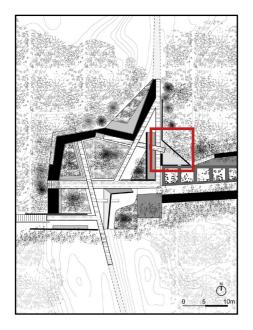
A distant view of the trench ruins from the terrace



Feel the rough surface of the ruins closely.

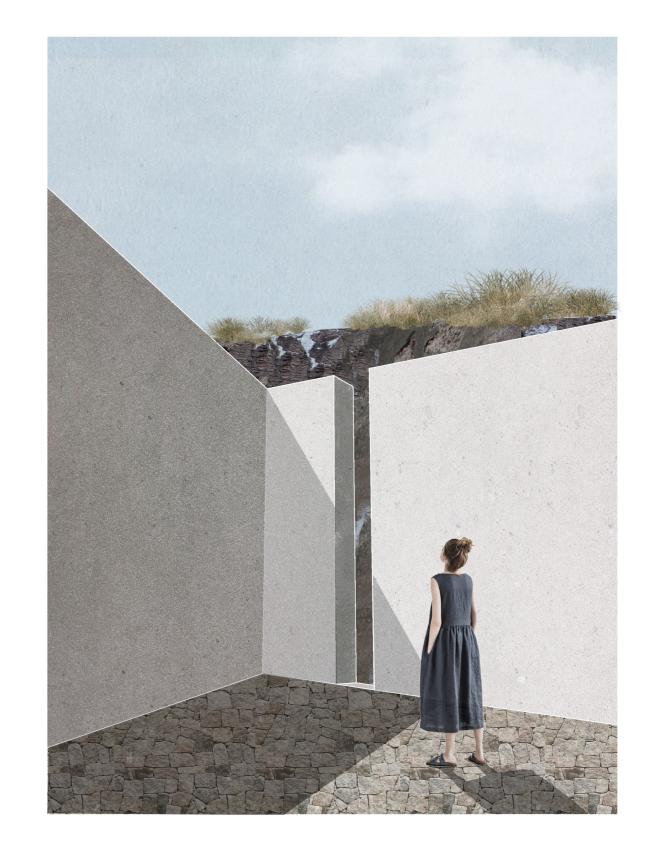


Tilted walls create spatial tension.

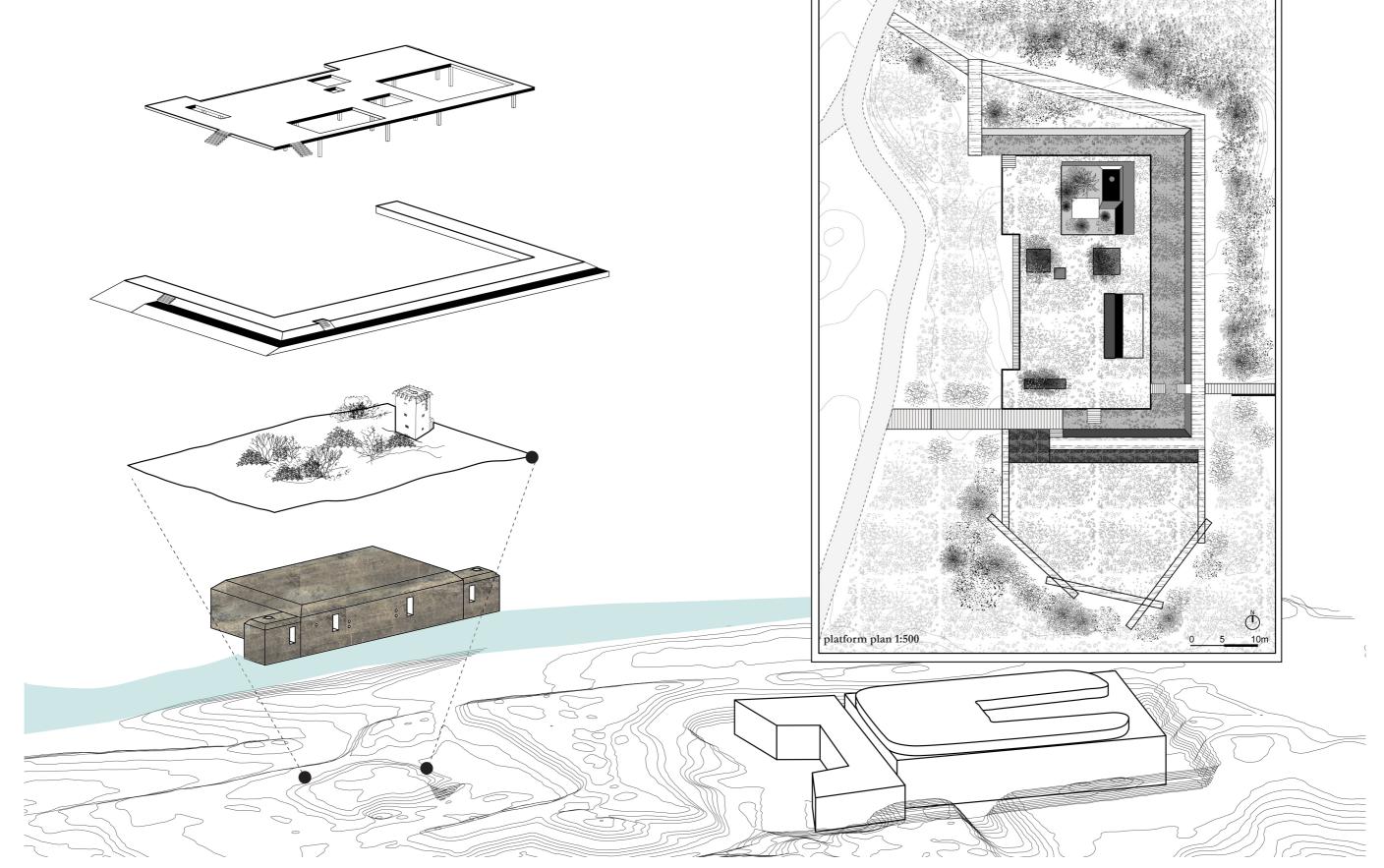


The wall assembly

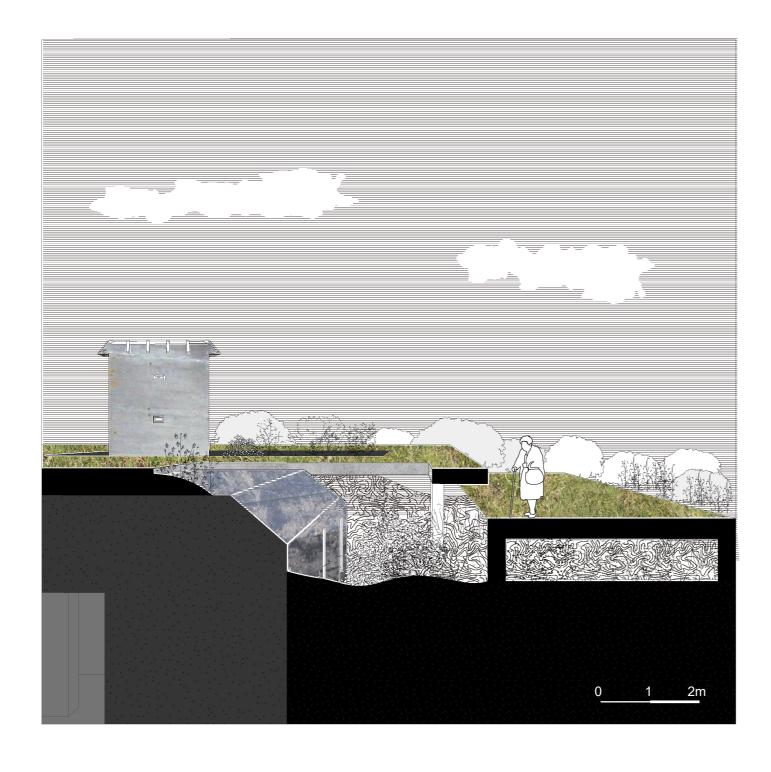
The smooth texture of the concrete walls contrasts with the texture of the ruins. The enclosed space and frames formed by the three concrete walls enhances this contrast and the tension of the space

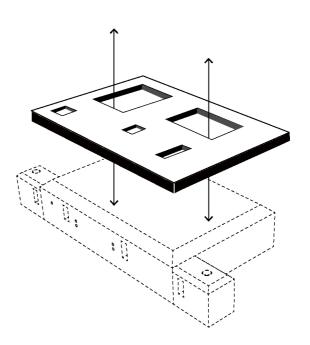


Hiden bunker

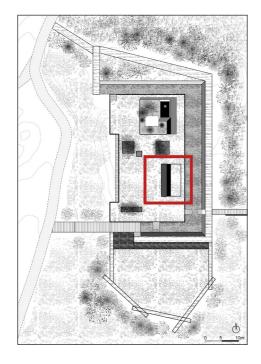


Hiden bunker





Hiden bunker

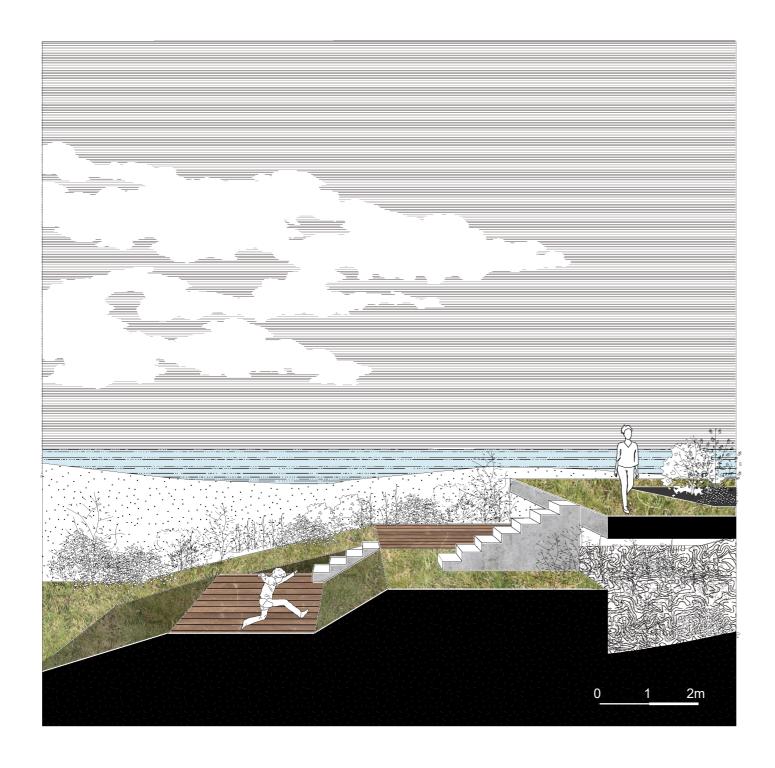


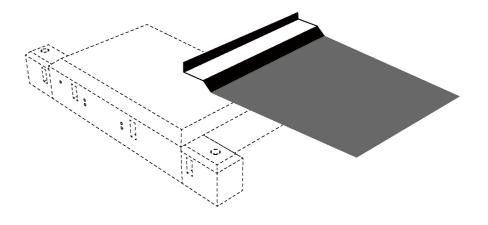
The platform and the hiden bunker

The grassy platform frames the underground bunker. Directing people's attention to the once neglected ruins, which is an opening for people to reflect and empathise.



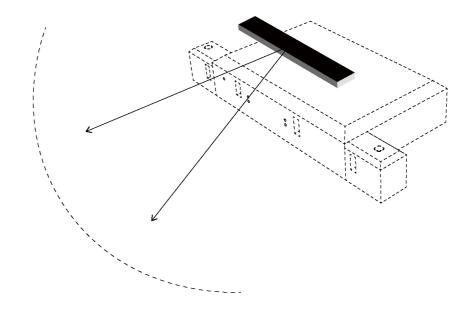
Hiden bunker





Hiden bunker





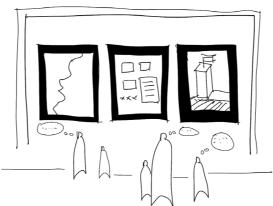
Fort Kijkduin Museum

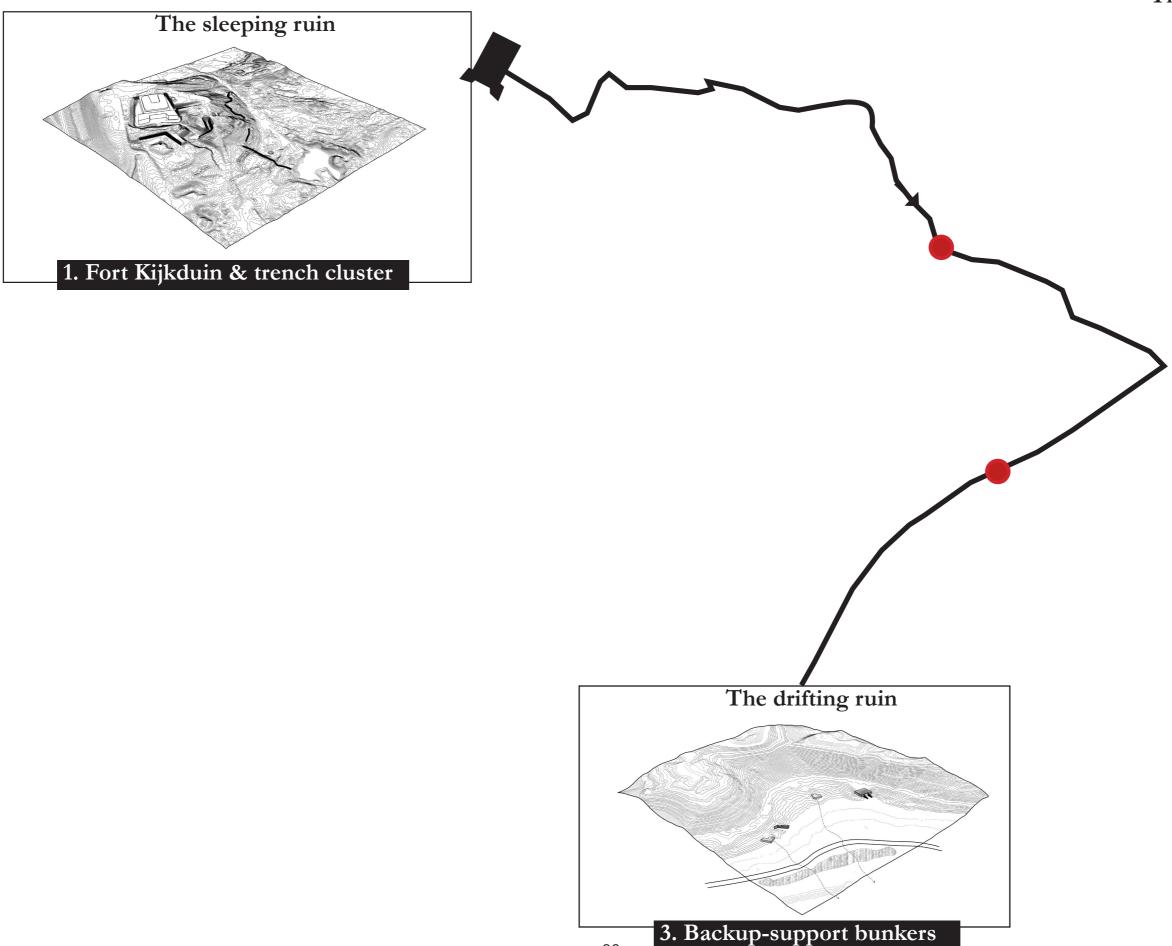








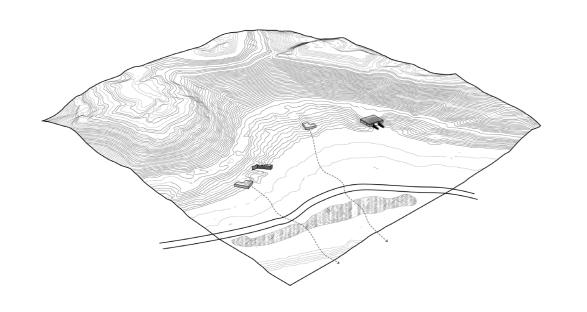




Brick pavement



THE DRIFTING RUIN





Brick

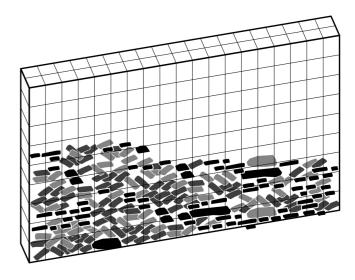


Let go of ruins

Brick reclaimation







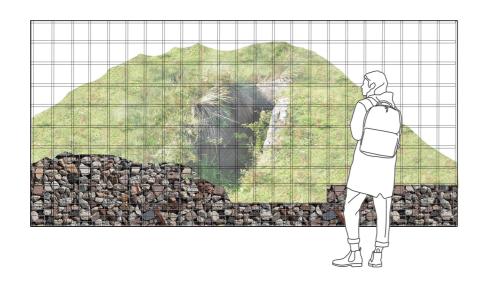
Excavation work with volunteers

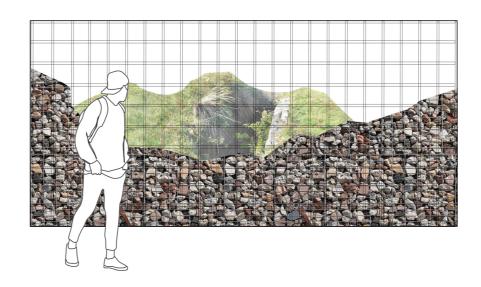
Collecting and sorting bricks

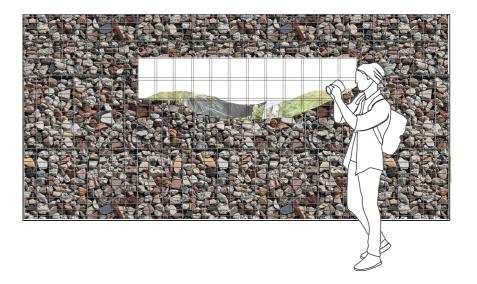
Fill the gabion

Brick reclaimation

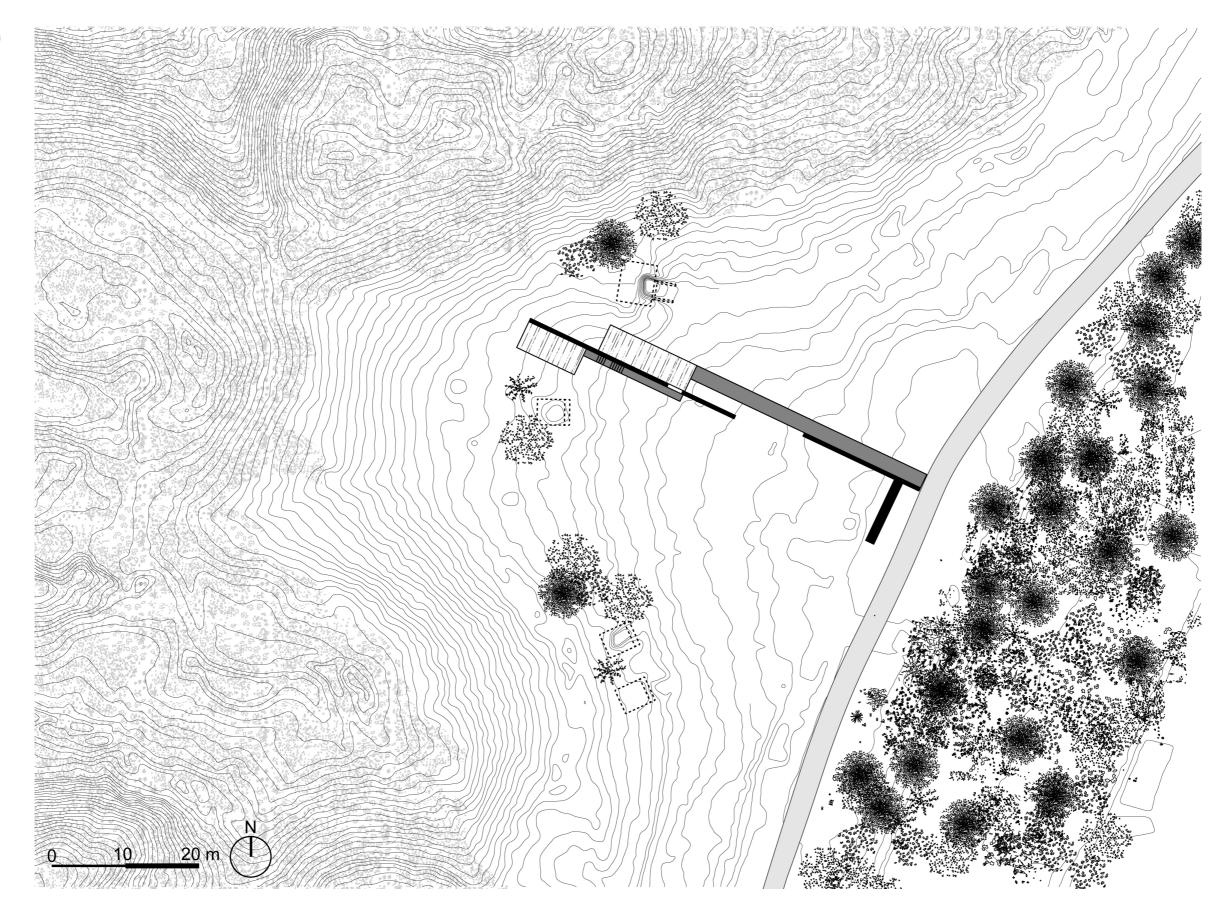
The undertow of time and space

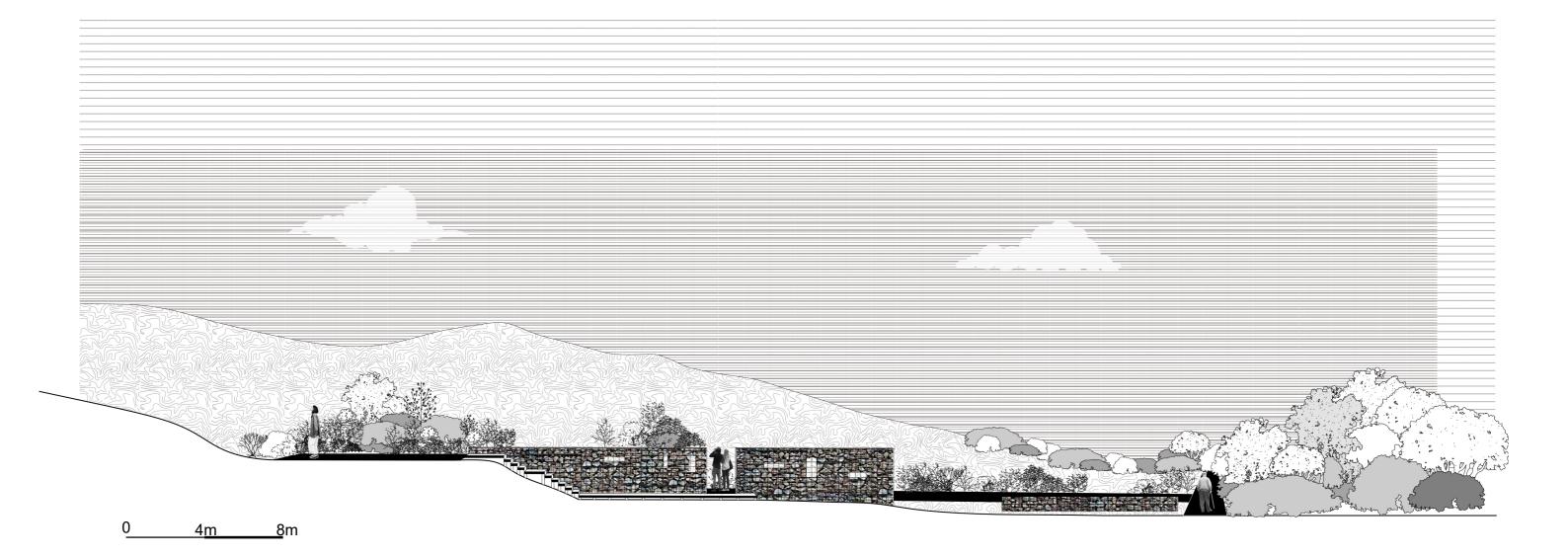




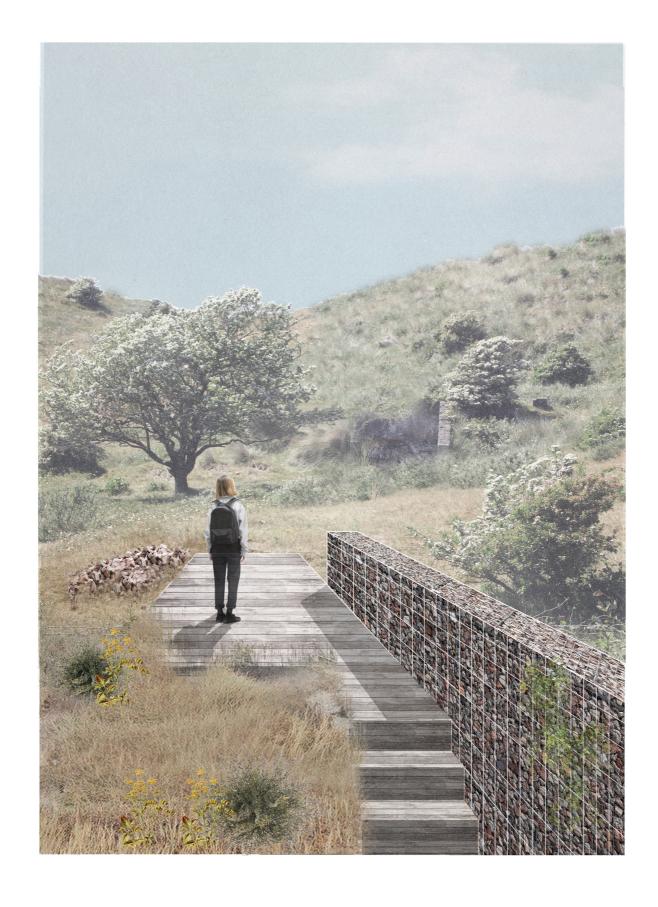


Plan 1:500



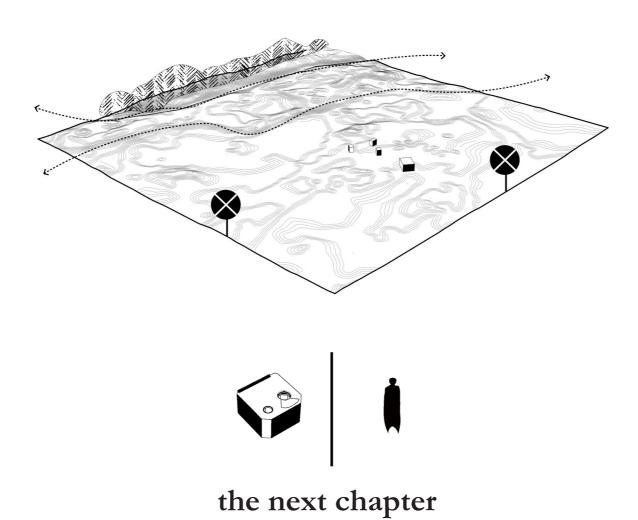


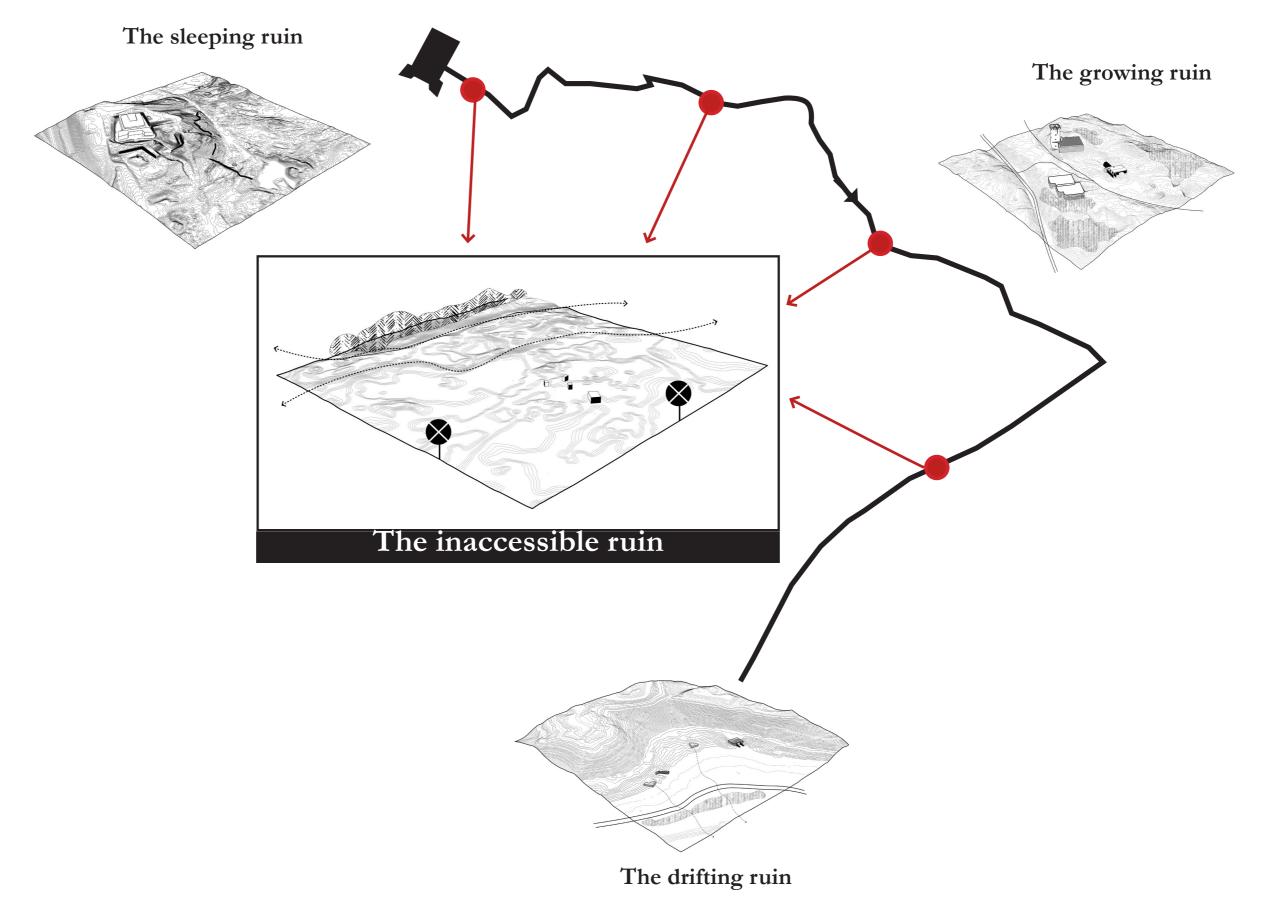


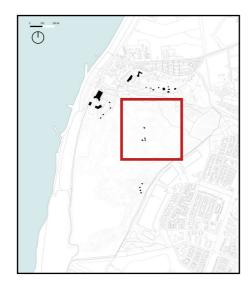


THE INACCESSIBLE RUIN

Distance

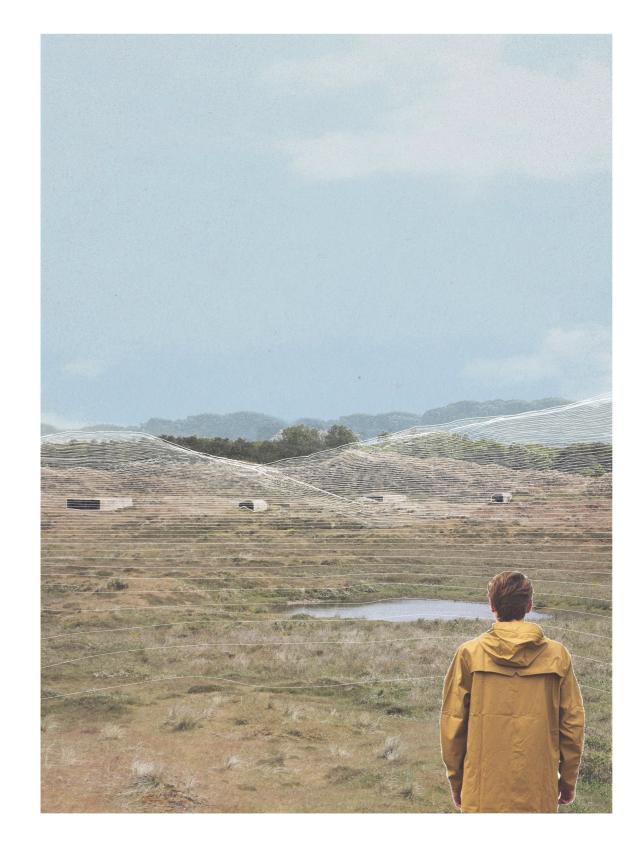






Distant ruins, both spatially and temporally

The ruins of the Atlantic Wall will eventually disappear, either buried by dunes or decomposed due to erosion and taken over by nature. This would be the end of the ruin story but also the begining of another new chapter.



RESEARCH

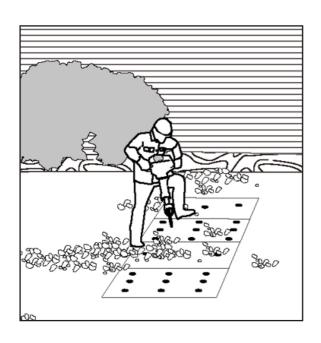
MANIFESTO&CONCEPT

DESIGN PROPOSAL

CONCLUSION & REFLECTION

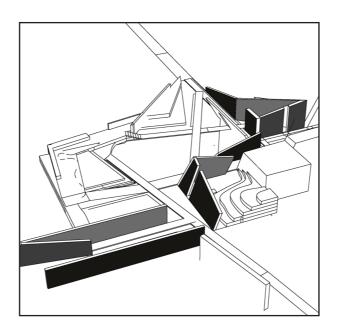
conclusion and reflection

How to reveal the <u>value</u> of post-war ruins in modern society while maintaining their <u>ruinous qualities</u>?



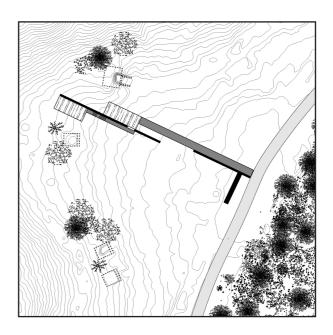
Ruin as process
Interval interventions to ensures

a sense of isolation of the ruins but also brings them into public participation.



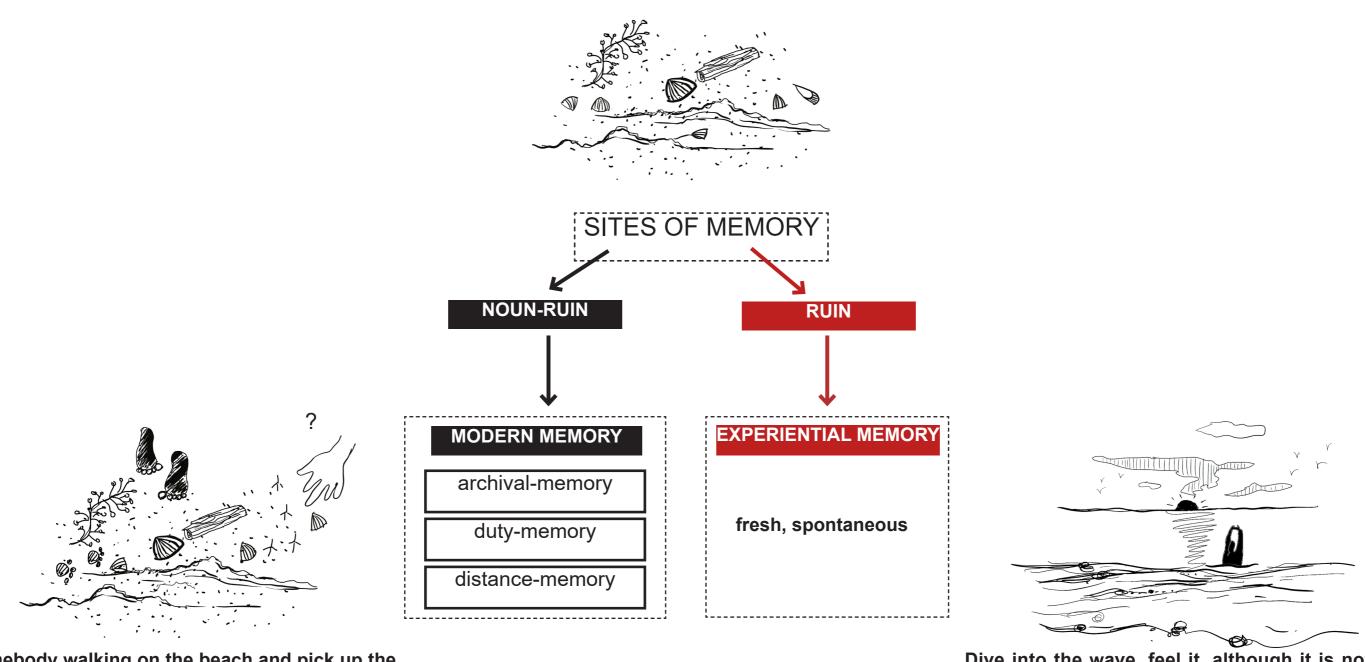
New structures

the qualities and characteristics of ruins are enhanced by new structures to offset the effects of human intervention.



Acceptable narrative

An acceptable narrative is proposed that allows these controversial ruins a suitable position, enabling people to embrace decay.



somebody walking on the beach and pick up the shell, vaguely recall the wave.

Dive into the wave, feel it, although it is not the same as the previous one.

