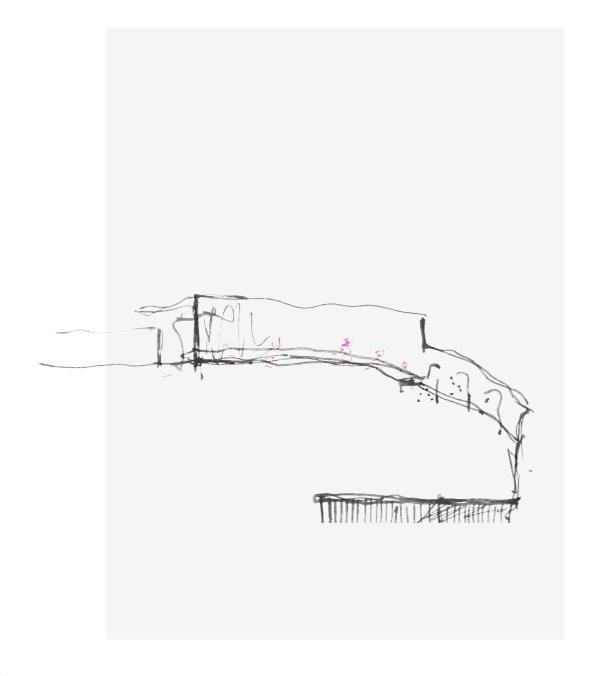


MASTER THESIS

RANTZAUBADET



Rantzaubadet

Beata Lindqvist

Chalmers University of Technology Department of Architecture and Civil Engineering

> Architecture and Urban Design Building Tectonics

Examinator Mikael Ekegren Supervisor Björn Gross

> Master Thesis Spring 2021





stone

wind cold salt

sun breeze

shelter

wood

cold feet

ice cream

wave wind salt

acknowledgments

I wish to thank the following persons for all the help, interesting discussions, valuable material etc they have given me throughout the semester

Björn Gross supervisor

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> Varbergs kommun, especially Liridon Haxhimustafa Fredrik Johnsson Ulrika Ljungberg

Peter Börjesson, historian

Anna Victoria Andreas Teo

All my friends and fellow students at Chalmers



ABSTRACT

As a child, growing up in the coastal town of Varberg, I have always been surrounded by water. The sea has been a natural element for swimming, complementation, and play. The sport swimming started to establish itself in Varberg in 1920 where the harbor basin was used as the arena for practice and competition. The old quarry 'Stenbrottet' became a starting point and location for the new outdoor swimming facility.

Today, the facilities that once were new, are old and worn out. The aim of the thesis is to design new facilities that can withstand the test of time and frame the beauty of the site while keeping the structure for the actual outdoor swimming basins.

Architects have a responsibility and play a great role in contributing to a sustainable built environment. Striving for handling construction, material, and building components with a high degree of feasibility and precision, as this master thesis direction underlines, is of high importance.

How can facilities be designed such that they withstand the test of time and resist the tear of salt water, wind and sun?

The dramatic landscape requires careful consideration in how to approach it with built structures. Due to the exposed location, building configurations that create spaces where one can shield from the wind or enjoy the sun and simultaneously frame the beauty of the site is of high importance. How can I design and create architecture that respects and puts emphasis on the surrounding landscape?

The project aims to use the possibilities of the site and be challenged by the existing structures, to create space through construction, spatial configuration, light and materiality that will enhance the new swimming facility.





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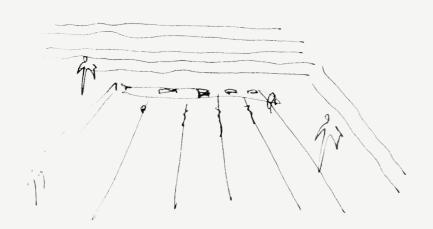
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> Research question

How can I design and create architecture that respects and puts emphasis on the surrounding landscape?

> Sub-question

How can facilities be designed such that they withstand the test of time and resist the tear of salt water, wind and sun?



INTRODUCTION

THE FRAMEWORK



The thesis aims to design and create robust structures with a high care of detail and material that will stand the test of time and simultaneously respect and put emphasis on the surrounding landscape.

With this architectural basis, the structures will serve as new outdoor swimming facilities, at a site where the sport has been exercised since the 1930s.

Due to the exposed location chosen, the purpose is to, through spatial configuration, create spaces where one can find shelter from the wind and rain or enjoy the sun.

Varberg, Sweden

departures.

This master thesis is a speculative design

proposal for new facilities to the already existing outdoor pools, with the interpretation

to connect the pools visually and physically

surroundings as well as making it an obvious destination for everyone. The granite terrasses,

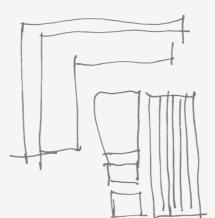
with the ocean. Focus lies to reconnect

the swimming arena with its immediate

alongside with the pools, constitutes the

basis for the project from where the design

METHOD



approach. Initially, references and case studies were reviewed and from these, strategies were extracted. A physical site model has been made and site visits conducted to understand the landscape. In addition, the technique of photogrammetry has been used where a drone has been capturing the landscape enabling me to get a 3D model as well as detailed contour lines. With this material and through this knowledge, iterations of the new facilities have been made through plan, section, and elevation with the aim to give my interpretation on how architecture can respect and put emphasis on the surrounding landscape.

The project has primarily a research by design

During the second part of the semester, the same methodology has been used but has instead been applied on a zoomed-in scale. Now - construction, materials, and details have been studied and worked on in trying to give an answer to the sub-question: 'How can facilities be designed such that they withstand the test of time and resist the tear of salt water, wind and sun?'

When questions and uncertainty arise about how to move forward, answers from chosen reference projects has been revised with the aim to extract a certain solution related to the project.

In addition, the design has continually been tested and communicated with tutors and fellow classmates who has challenged me and questioned my ideas.

The method chosen is certainly a fruitful way of working, it enriches my way of seeing things and gives me new perspectives on how to create good architecture.

SITE

DELIMITATIONS



ARCHITECTURE RELATING TO LANDSCAPE

In Sweden, Architecture schools can be found in four different cities, where students are trained in how to design buildings that shall be able to withstand the test of time, be durable and work as shelters to the outside world. Landscape architects, on the other hand, get their education at different schools. Their education focuses on an ability to gain a holistic view of the outdoor environment, the landscape and how to treat it with additions or subtractions (Sveriges Lantbruksuniversitet, 2021).

In western society, there has been a tradition of separating things into certain categories. For instance, nature is one thing, and architecture (the built environment) is another. Thinkers like Aristotle and Kant introduced the notion of dualism which asserts nature in opposition to architecture. In eastern society, this matter has been looked upon differently. There, nature and architecture are linked and intertwined. The Japanese architect Kisho Kurakawa claims that the space in between those (in western society) opposites, there may be something of even greater importance. (Wachtmeister, 2003)

Architects have a responsibility in relating the built environment to the landscape and nature. "One might say that architecture erects a temporary boundary between nature and culture. That architecture is matter (nature's matter) fashioned into space (human space). Arguably, architecture balances on the slash in nature/culture. Or indeed, perhaps it is the slash. One could speak of slash architecture." (Caldenby, 2013)

The island of Noshima is a part of the Japanese archipelago. The landscape has a paradise-like setting with its hilly topography, covered in broccoli-like trees, all surrounded

by the deep blue ocean. Today, the entire island is filled with contemporary art, though in a very subtle way. Tadao Ando designed the Chichu Art museum as well as the popular Benesse house museum. Several other designers, artists, and architects have made their remarks in 'Naoshima Art house project'. A general theme among all the additions, such as installations and buildings is that they not only attract the eye in itself but rather enrich the surrounding nature.

Yayoi Kusama's yellow pumpkin, for example, stands on the concrete jetty, just in front of the ocean, where it doesn't steal the show but rather blends in, and becomes united with its surroundings.

In an interview held by the Pritzer architecture prize, the 1997 year's laureate, Sverre Fehn states that to build is something brutal. "When I build on a site in nature that is totally unspoiled, it is a fight, an attack by our culture on nature. In this confrontation, I strive to make a building that will make people more aware of the beauty of the setting, and when looking at the building in the setting, a hope for a new consciousness to see the beauty there as well." (The Pritzker Architecture Prize, 1997)

If architecture can serve as a bridge in between humans and nature, creating a link – a gate that opens up one's vision and frame the surroundings – then architecture can be the concept of the slash in-between nature and culture. (Caldenby, 2013).

TECTONIC AND STERETOMIC

The basic concepts of relating architecture, structure and construction can be described through Kenneth Frampton's principles of solid construction and filigree construction. The 19th-century theory architect, Gottfried Semper, instead called the same matter stereotomic and tectonic.

Frampton's solid construction and Semper's stereotomic can both be described as a homogenous construction, using techniques and materials derived from the earth. In contrast, filigree construction and tectonic means lightweight framework – derived according to Semper, from the textile art of origin – the craft of weaving, knitting and braiding. (Hatz, 2006)

The relation between these concepts – architecture and construction has been looked upon differently through time. The modernist movement with architects like Mies van der Rohe and Le Corbusier challenged the traditional way of letting the structure be seen in the expression of the building. The latter praised the concrete structure's way of opening up the floorplan – which used to be divided into sections due to the load bearing walls and the Barcelona Pavilion by Mies neither built upon a rational grid nor a traditional 'pillarbeam-system'. (Hatz, 2006)

The Swedish architect Elisabeth Hatz writes in her review of the solid handbook 'constructing architecture', that the architects mentioned above, both were trained classically as well as having a genuine knowledge in building construction. According to Hatz, it seems like we today require the latter, of having a deeper knowledge in between those – design and construction. In Switzerland where the handbook is written – the bridge in between the concepts are closely related. One reason might be, according to Hatz, that the professions have a closer link - architects and constructors work closer together. Well, at least, if comparing with Sweden where the gap is much bigger. (Hatz, 2006)

As for me, who will be a newly graduated architect this summer, I see the understanding in between form and structure as elementary. To know certain basic structural elements and rules – and to understand what consequences that give the overall shape is, to me, of high importance. In the world of architecture – where there are no rights and wrongs – the gradient in between black and white is diffuse and one tries to refer to relevant references who might have created something grand and great, the construction and structural elements at least give one some basic framework where one's design and first sketches can derive from.

Gottfried Semper divided buildings into the four elements of architecture – a sort of architectural classification system. (Investigating the Tectonic, 2017) The elements are called: the hearth, the earthwork, the framework and roof and the enclosing membrane or cladding – all referred > to the Caribbean hut – to what, according to Semper, was "a highly realistic example of a wooden structure taken from ethnology". (The four elements of architecture, 2018)

These four elements were divided into two construction typologies: tectonic and stereotomic.

The term stereotomic originates from 'stereotomy' - the art of cutting materials, such as stone, earth or wood, into shapes that are used to construct elements tightly connected to the site. These are typically the earthwork and the hearth. The tectonic, on the other hand, is instead referring to the more delicately assembled structures, such as carpentry, from which the word originates.

For Semper, each material should speak for itself. Wood should be used where timber is the most suited, if using brick – the bricks should be visible and the construction readable through that. (Investigating the Tectonic, 2017)

Comparable to my proposal – the stereotomic stone wall emerges from the former quarry with its task to protect the wooden, tectonic construction – which is an assembled timber structure with its primary function to hold the functions needed to run an outdoor swimming facility. \square

REFERENCES

THE FRAMEWORK

The references presented can be seen as my starting points, from which I've been extracting knowledge and strategies throughout the project. The focus area lies within architecture relating to landscape, buildings where the construction is clear and legible, and lastly, bathing facilities.

The presented references below all have a close link on how to approach the landscape with built structures, in a respectable manner.

LECA SWIMMING POOLS architecture relating to landscape

A BOOK ON BASIC
ARCHITECTURAL DESIGN
frame levels

SPRINGHILL HOUSE simplicity/legible construction

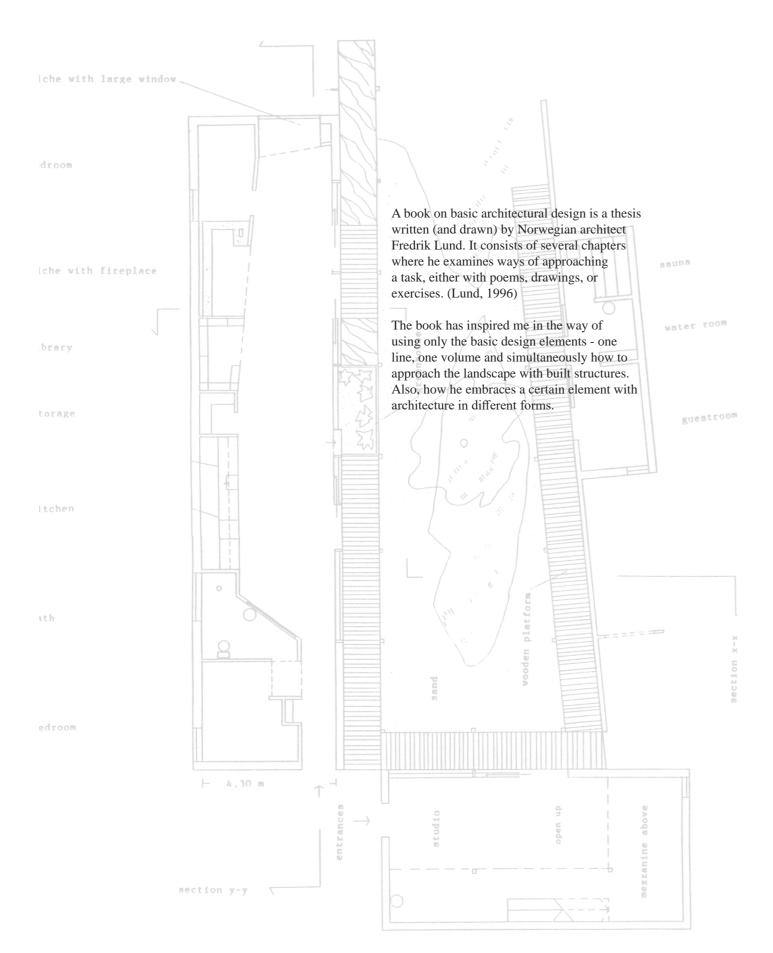
BADPALATSET cold bath in stockholm

JÄRVABADET outdoor swimming facility

KALLBADHUSET cold bath in Varberg

RAMMED CONCRETE sacular retreat





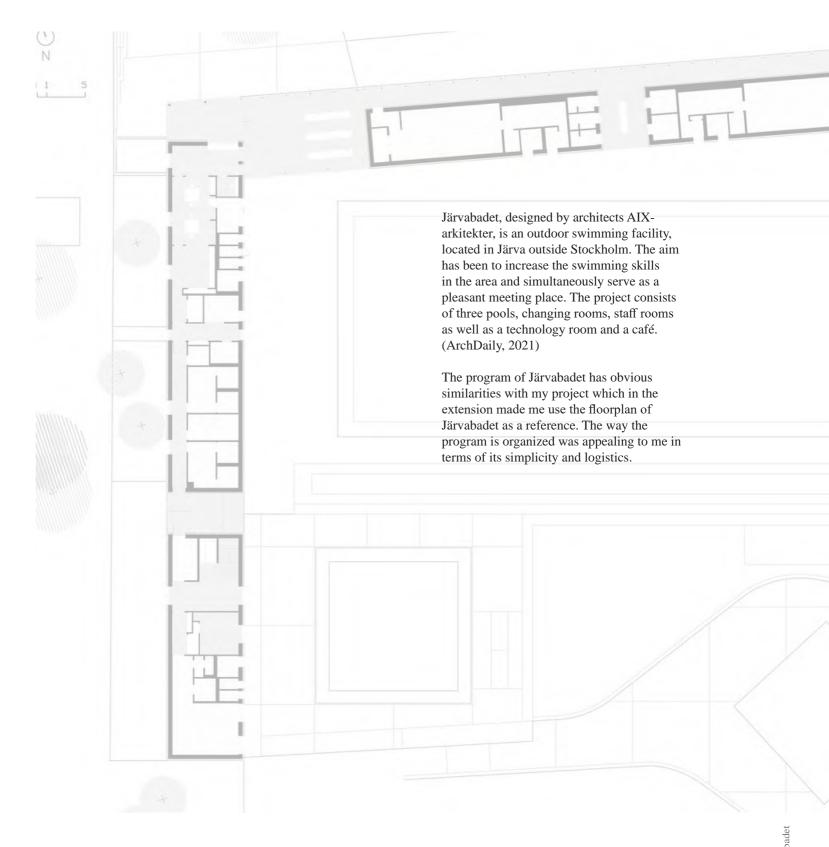


BADPALATSET JÄRVABADET



Badpalatset is a 'kallbadhus' which is supposed to attract a wide range of people and serve as an obvious meeting place. The project is not yet realized but has recently received the first prize in a competition. The bath has a clear and distinct room organization that separates the *dressed*, the *undressed* and the *bathdressed*. (Fogelström & Andrén, 2021)

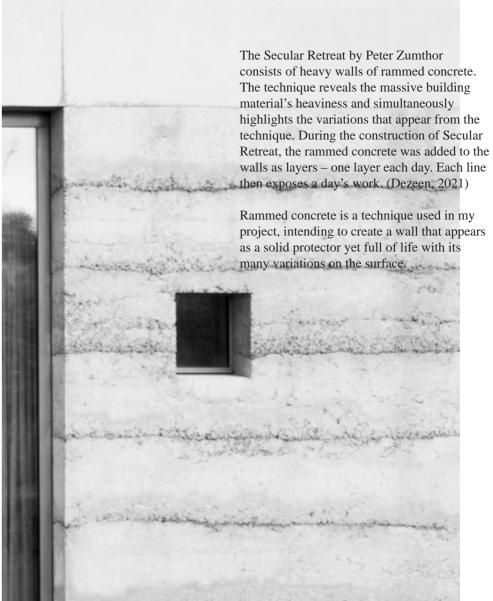
I found out about this project quite late during the thesis semester but it has nevertheless been an important reference – both in terms of material choice but also a reference in how the project is displayed and visualized.

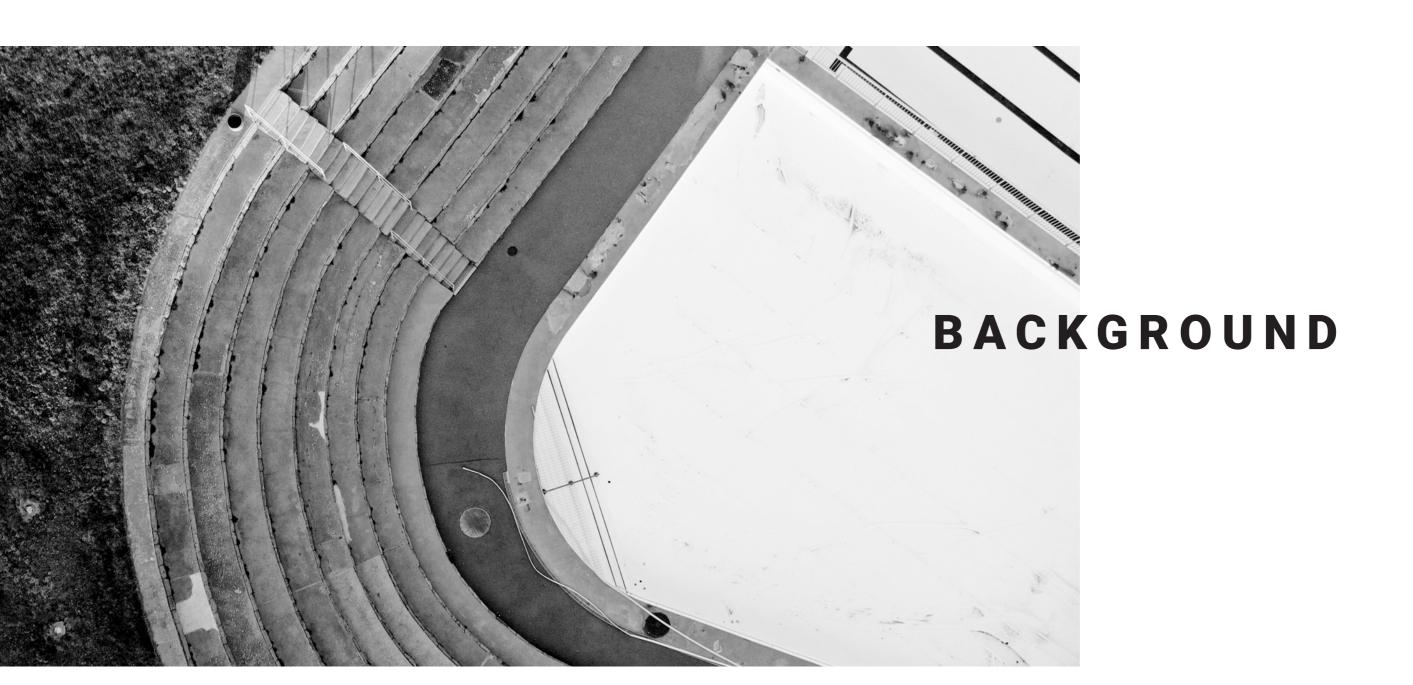


Rhythm. Proportions. Bath. Ocean. Varberg.

The proportions and the rhythm that the openings towards the inner courtyard give have been a reference in my work. The fact that this cold bath's location is just a stone throw away, makes it obvious that I've kept the building in my reference bank.







ABOUT WATERS AND VARBERG

Growing up in the coastal town of Varberg, I have visited the outdoor swimming facility 'Simstadion' countless times. On rainy summer days, I participated reluctantly in swimming school and during the summer months, the physical education lessons were usually held there. Always freezing and cold. During a walk together with my mum and sister, along the coastal path Strandpromenaden during the summer prior to the thesis semester, we started to talk about 'Simstadion' when walking past the facilities. We all shared similar thoughts regarding that its a shame that such valuable location hosts such worn-out facilities. With the ocean just in front, the historic fortress from the 13th century in the north, and the city center a stone's throw away, the site has enormous potential.

This walk sowed a seed to what came to be the aim of my master thesis - designing new facilities for *Simstadion*.

Since the early 19th century, there has been a tradition of Varberg being a health resort due to the health well *sv. hälsobrunn* Svartekällan in the area of Apelviken. During the second half of the 19th century, Varberg's popularity as a health resort was strengthened when communication such as steamboat and railway was established. The town's first hot bathhouse

was built in 1823, located right next to the ascent to the fortress. In 1866 a new hot bathing house was built, located in front of the existing cold bathing house, connecting to it with a bridge. (Lennartsson, 2017)

In 1920 many smaller towns started to build bathing houses, still with the main purpose to get clean. Simultaneously *bath rooms* started to be included in modern houses and apartments, to let people take care of their hygiene, privately, at home. At the time, an interest in bathing and swimming emerged from the younger generations of the town.

The authorities in Varberg decided to invest in a new bathhouse with a swimming basin, still with bath tubs for washing though. In 1925 the new facilities, built in sv. nationalromantisk stil was ready for inauguration. The bathing house still exists today, known as Varmbadhuset by the locals. It went through a renovation two years ago due to its bad condition, with the original drawings and images as inspiration. (Lennartsson, 2017) In Varberg, many bathing and swimming facilities exist. Along the coastal walking path Strandpromenaden several of them are located. The ancient cold bathhouse, the newly built Fästningsbadet, nude bathing spots, Kusthotellet, just to mention a few.



me in varberg, summer 199

about waters and varberg 33



The bathing tradition of Varberg is well-rooted and indeed a part of the city's identity.

According to P. Börjesson, (personal communication, 9th of September 2020) at the same time as the town started to establish as a health resort, the Stonemasonry business started as well. Along the coast of Varberg, around twenty quarries existed. Due to the stone's, called *Charnockit* (often called Varbergsgranit) advantageous qualities, it was used as a building material and as paving stones for the roads.

Due to replacement by other material, the quarries were left untouched and in 1918 the operations ceased.

In 1920, the sport of swimming started to establish in Varberg. Initially, the ocean and the town's harbor was used for practice and competition.

The abandoned quarries around the town started to be filled up with water. Thoughts emerged on transforming the largest quarry *Fästningbrottet* into Sweden's most modern swimming arena. Volunteer Labor realized the vision, and in 1932 'Simstadion' was ready for inauguration. The initial years were a success for Simstadion which led Varberg to be the host for the Swedish championships in 1945, 1947 and 1951. (*Varbergsidrotten*, 2010)

The spirit of Simstadion still exists and during summertime cheering people can be heard over to my parents garden, a stone's throw away. Still today, the basins are filled with salt water from the sea as they have been ever since 1936, when the pump station was built.

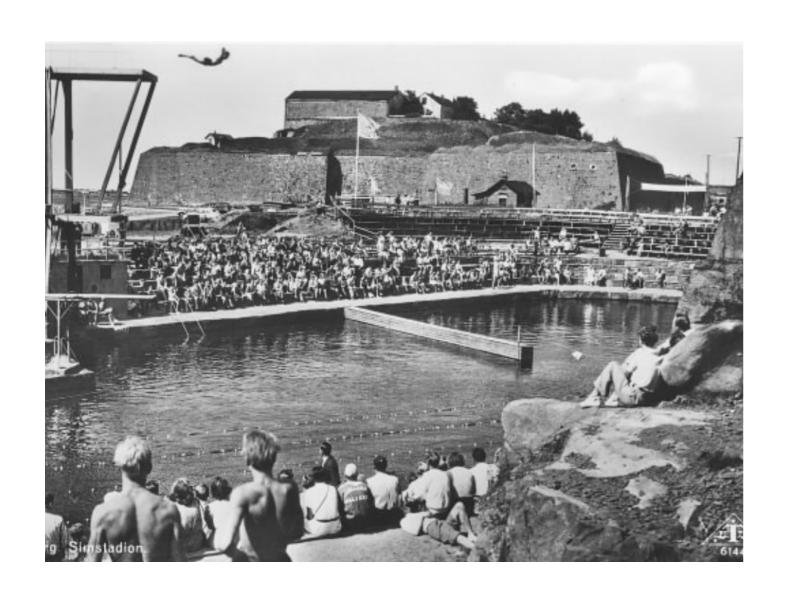
The facilities today are old and worn out. These structures have been in use since the '70s. The structures very much turn their back against the walk path and the ocean, though they probably fill the purpose of a shield against the wind.

There has been a political will in renovating the facilities. In 2014, decisions to renovate the indoor swimming facilities at 'Håsten' were made and therefore plans for Simstadion were put on hold. (Nilsson Loth, 2017) □

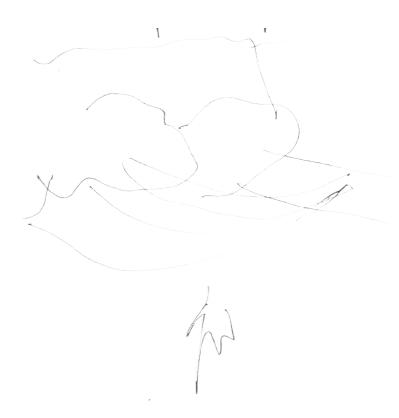
about waters and varberg 35

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punos				padet in Stockholm uilt in 1880			temperatures a 20° C	round					

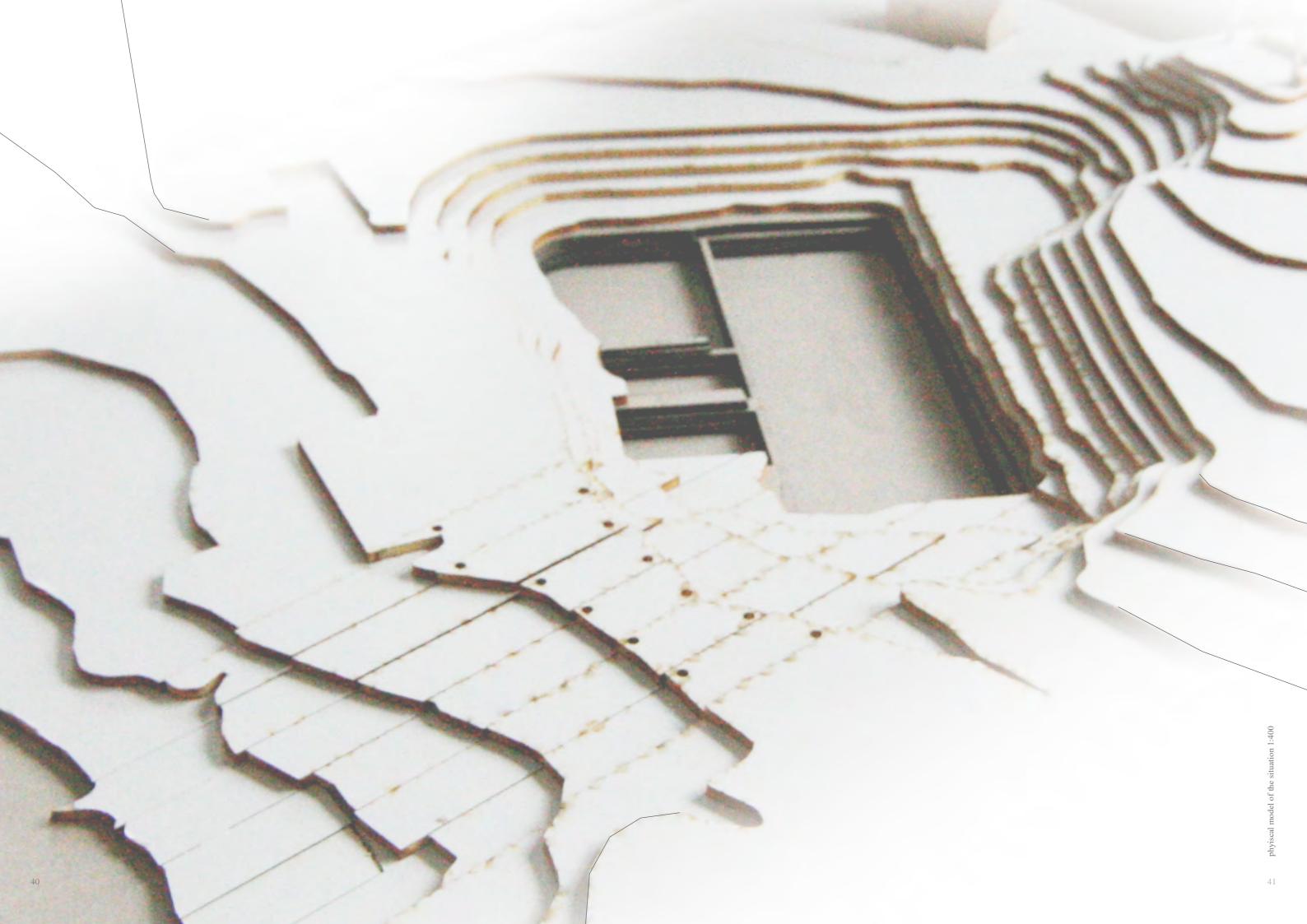
timeline 37



SITUATION



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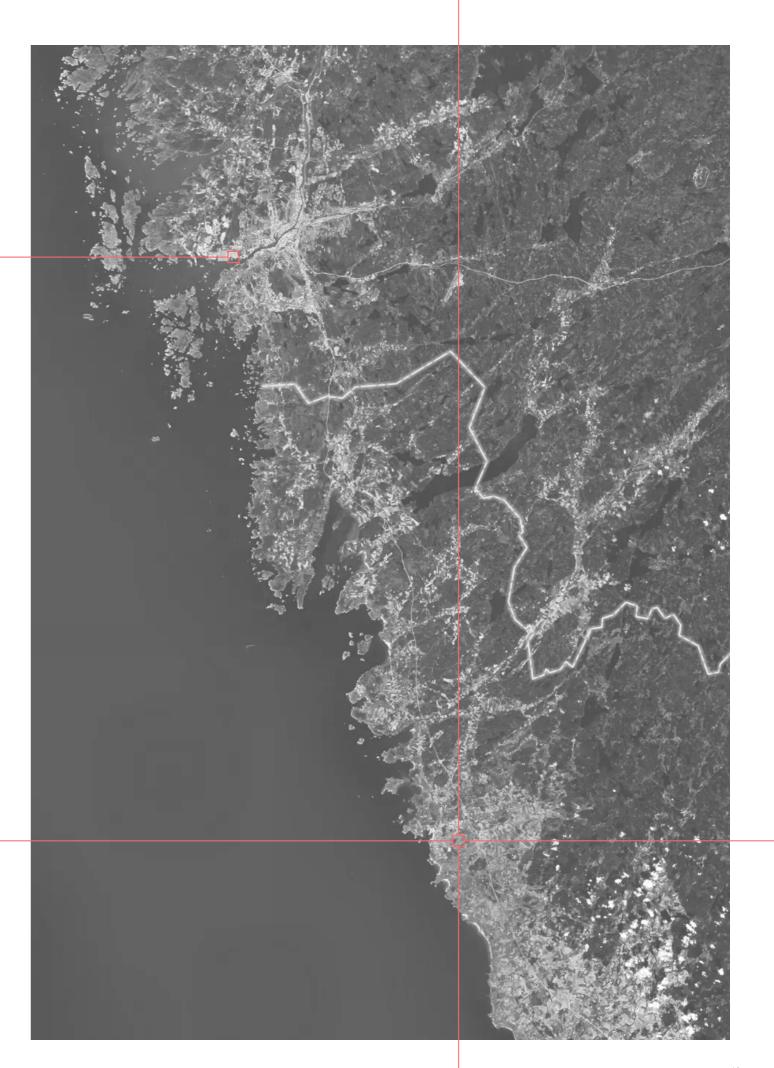


The site chosen for the master thesis is on the Swedish west coast, Varberg.

The location, illustrated as a solid square in pink (page 46), has immediate contact with the town's old fortress *Fästningen* in the north, the ocean in front and the citycenter just a five minute walk away.

Along the coast, there is a promenade *Strandpromenaden*, often used for walks by the locals where one can pass by the cold bath *Kallbadhuset*, dating from 1903, the acient warm bath house *Varmbadhuset*, built in 1925 and the quarry, *Stenbrottet*, left untouched in 1918.

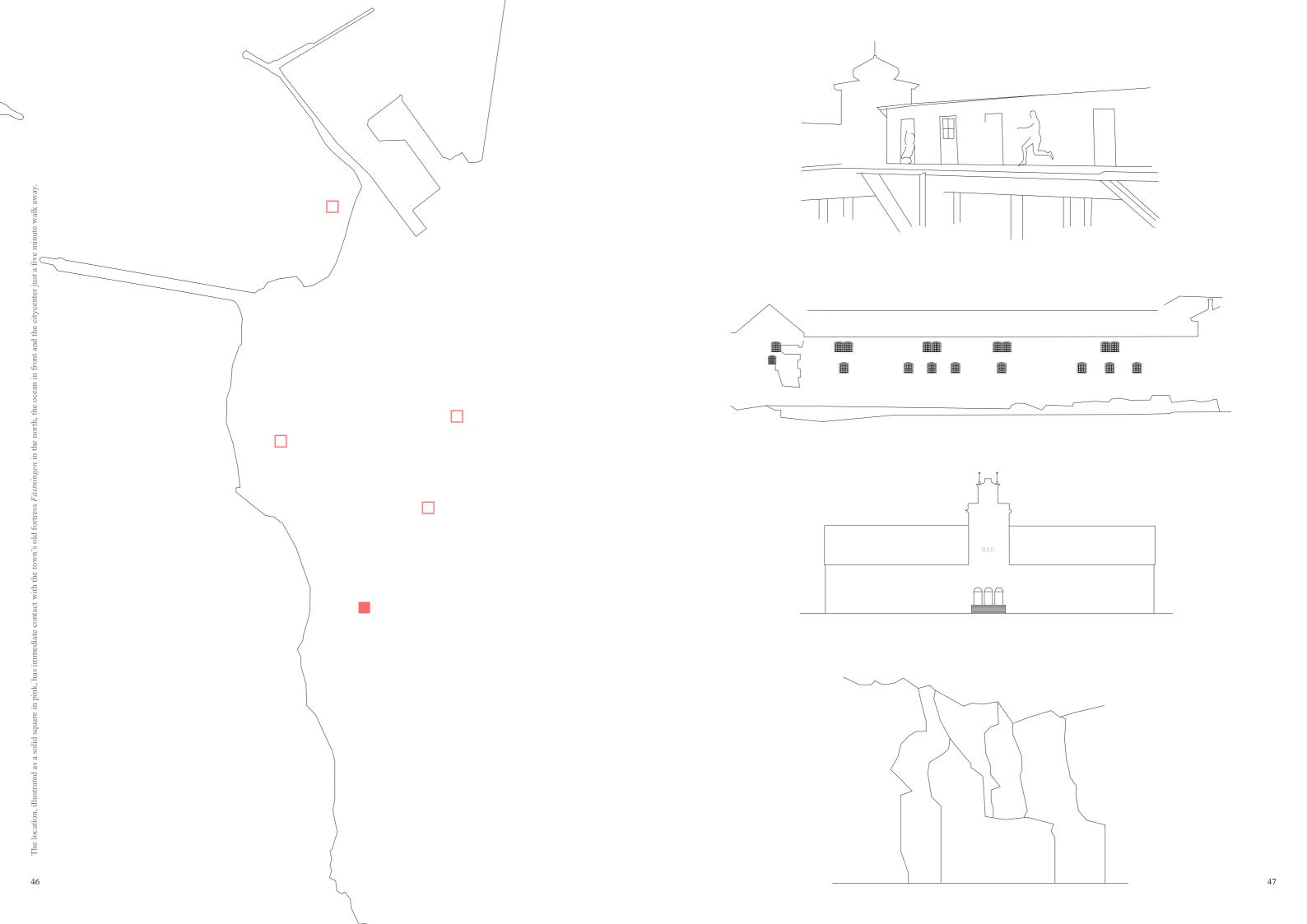
GÖTEBORG

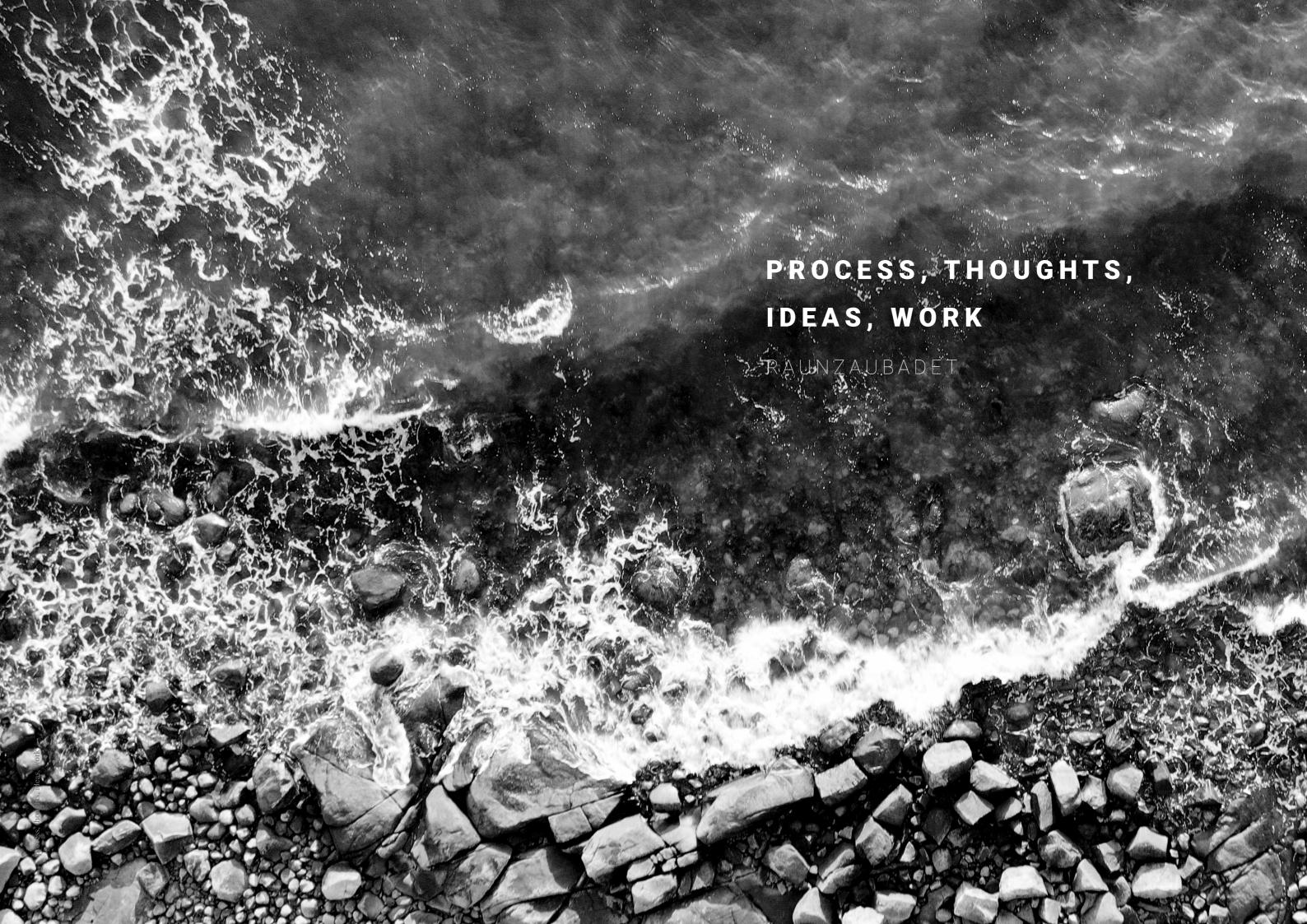


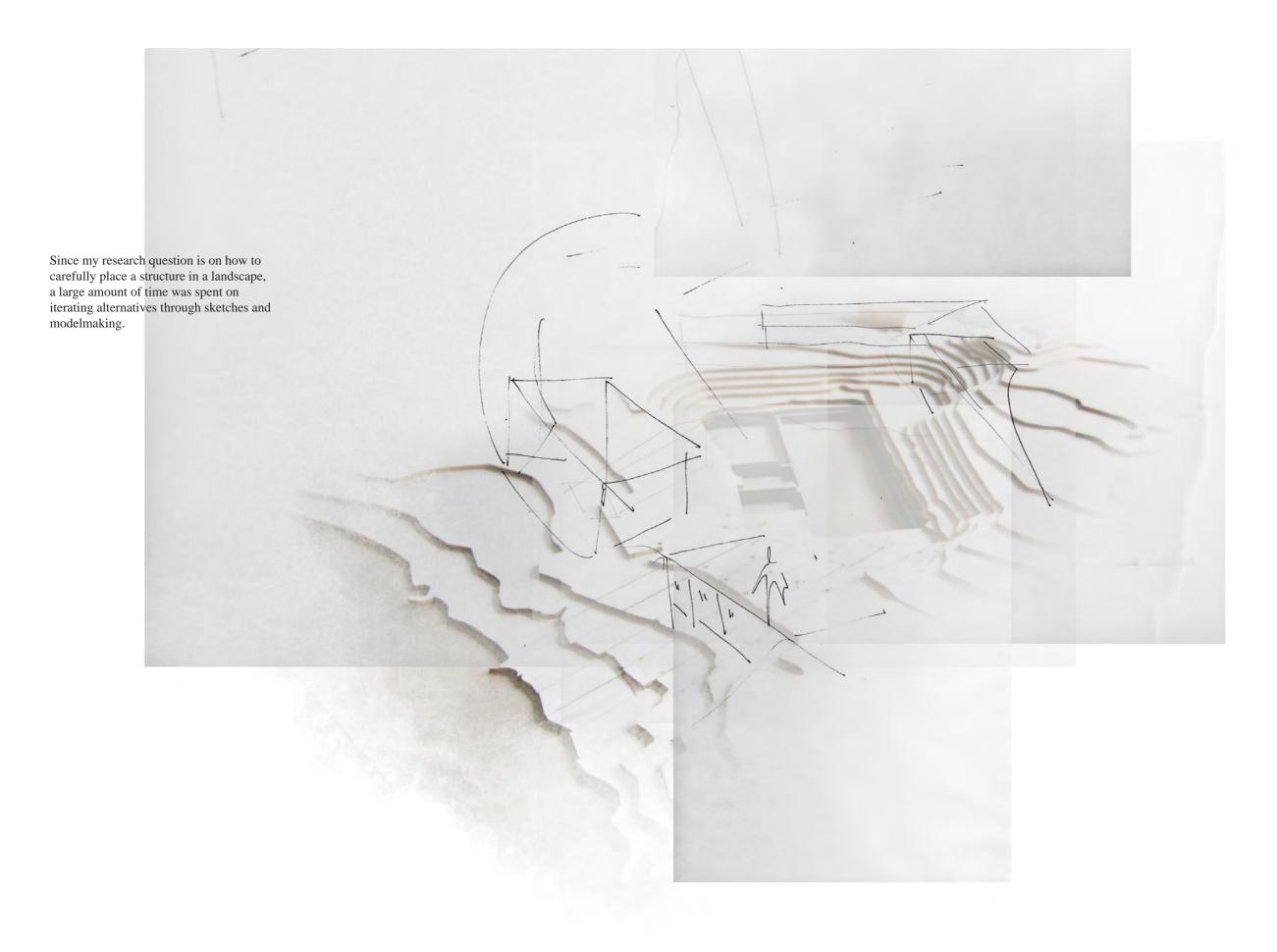
'ARBERG

situation

42







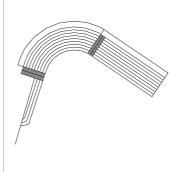
STARTING POINTS

As a starting point, I wanted to work with the existing elements of the site >



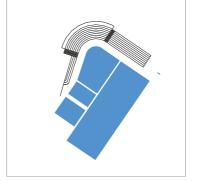
#1

the topography line



#2

the granite terasses



#3

the pools

IDENTIFIED PROBLEMS

Early on I detected problems on site. The most dominant where >

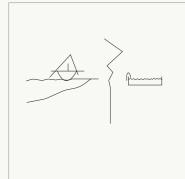
STRATEGIES

The strategies to solve the identified problems and guide my design have been >



#1

the harsh weather and exposed location



#2

no connection to the sea



#3

the promenade interfering with the site

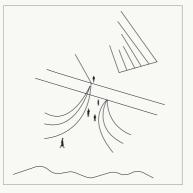


#1 a

the shape and placement of the structures in order to create a pleasent area within

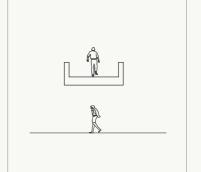
#1 b

the solid wall as a protector



#2

gently carve out the landscape to connect the pools and the ocean

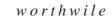


#3

strandpromenaden redirected onto a <u>bridge</u> over the carved out area

DESIGN PROPOSAL

RAUNZAUBADET



building can be

crying out

trying

by all means available to attract attention

a building can speak

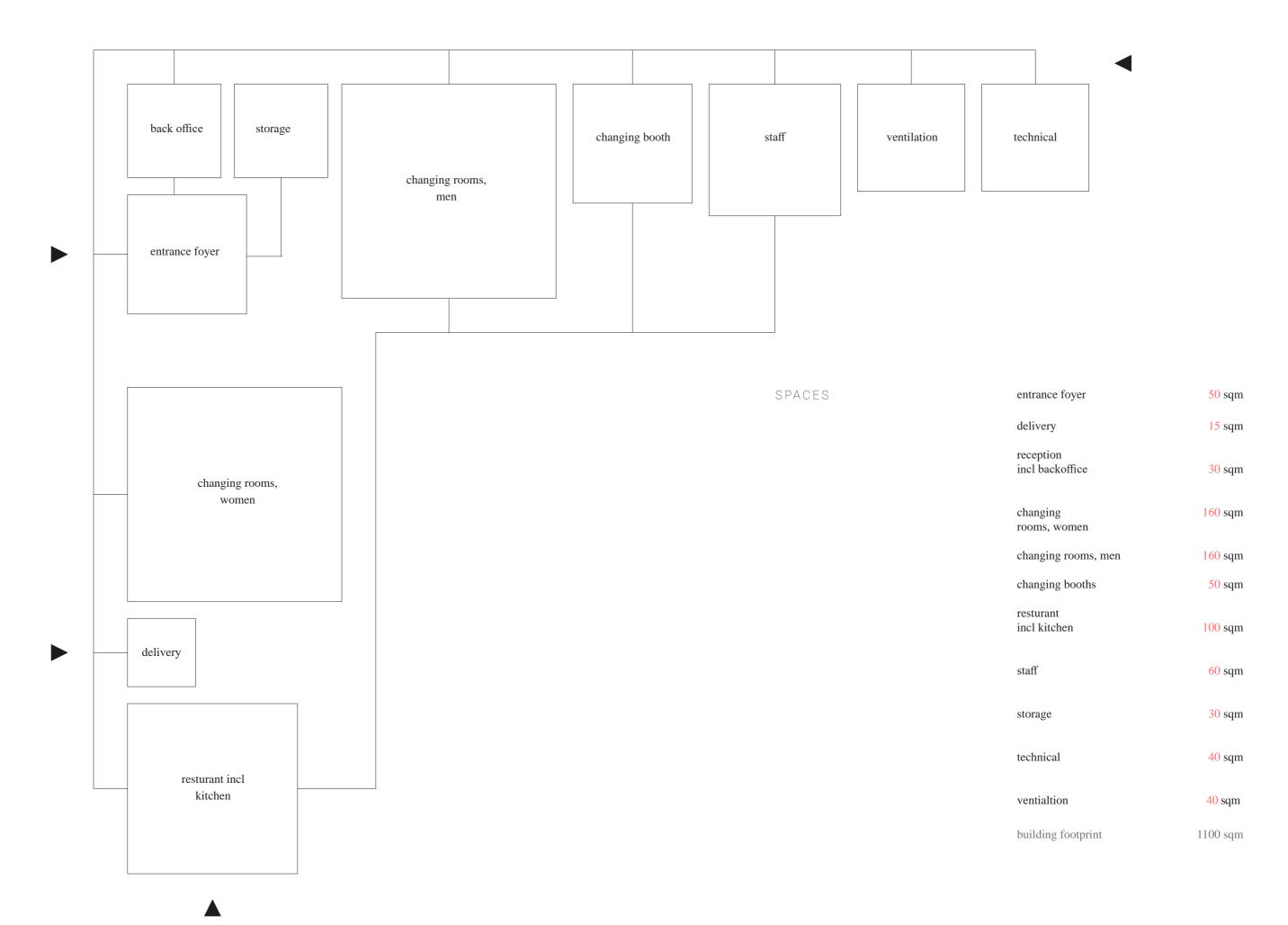
with quiet intensity

making it worthwile

passing

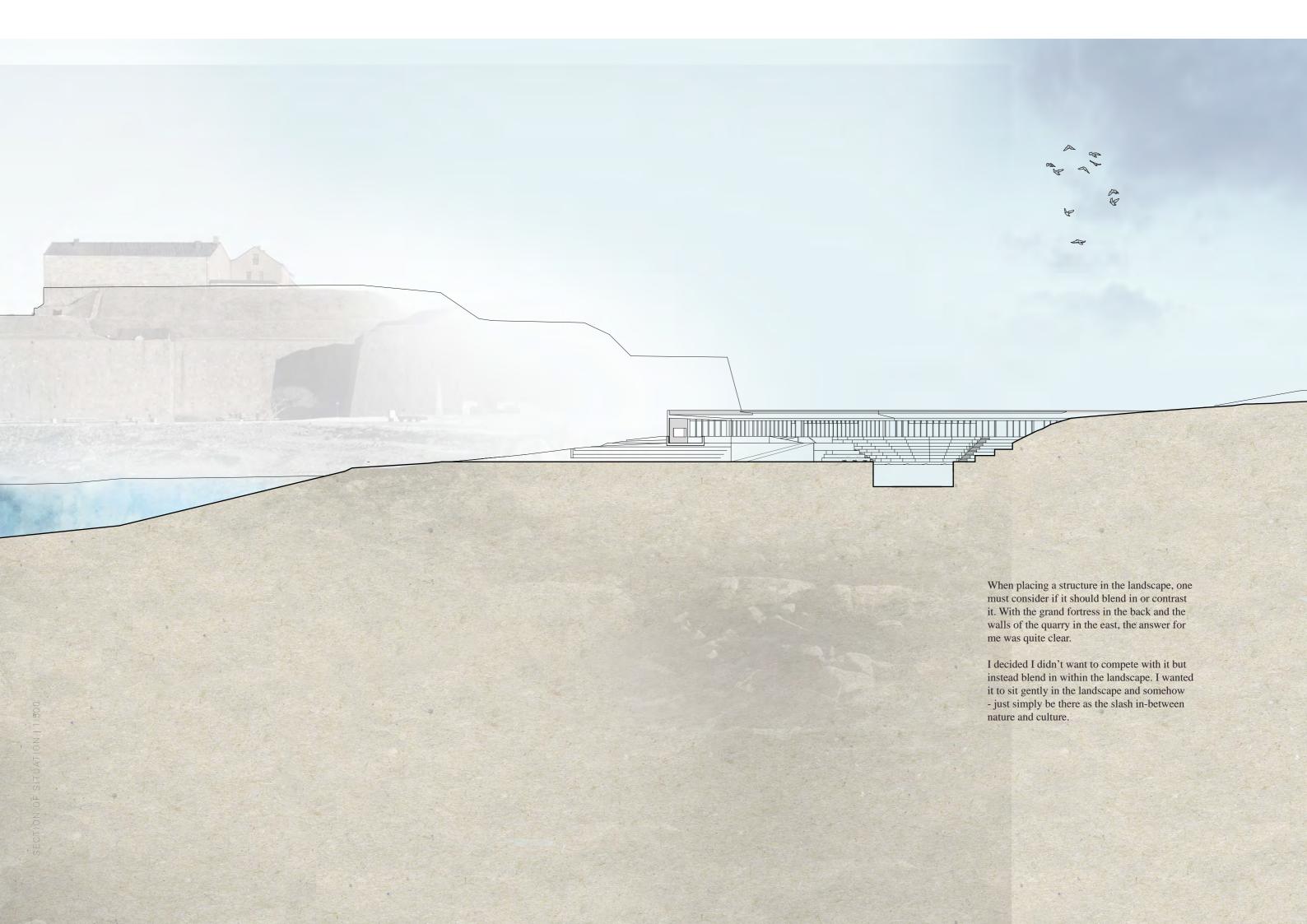
every day

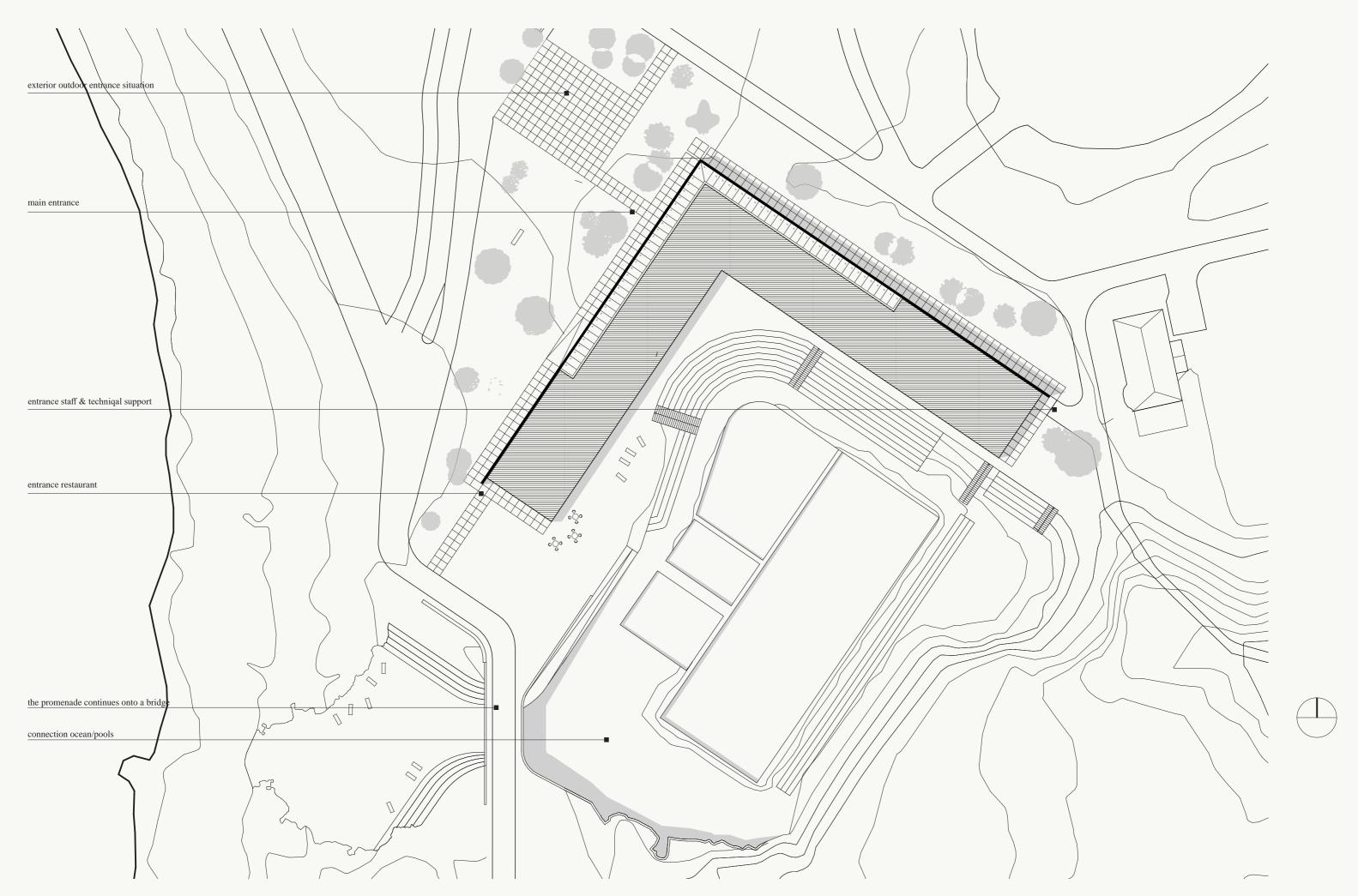
Fredrik Lund



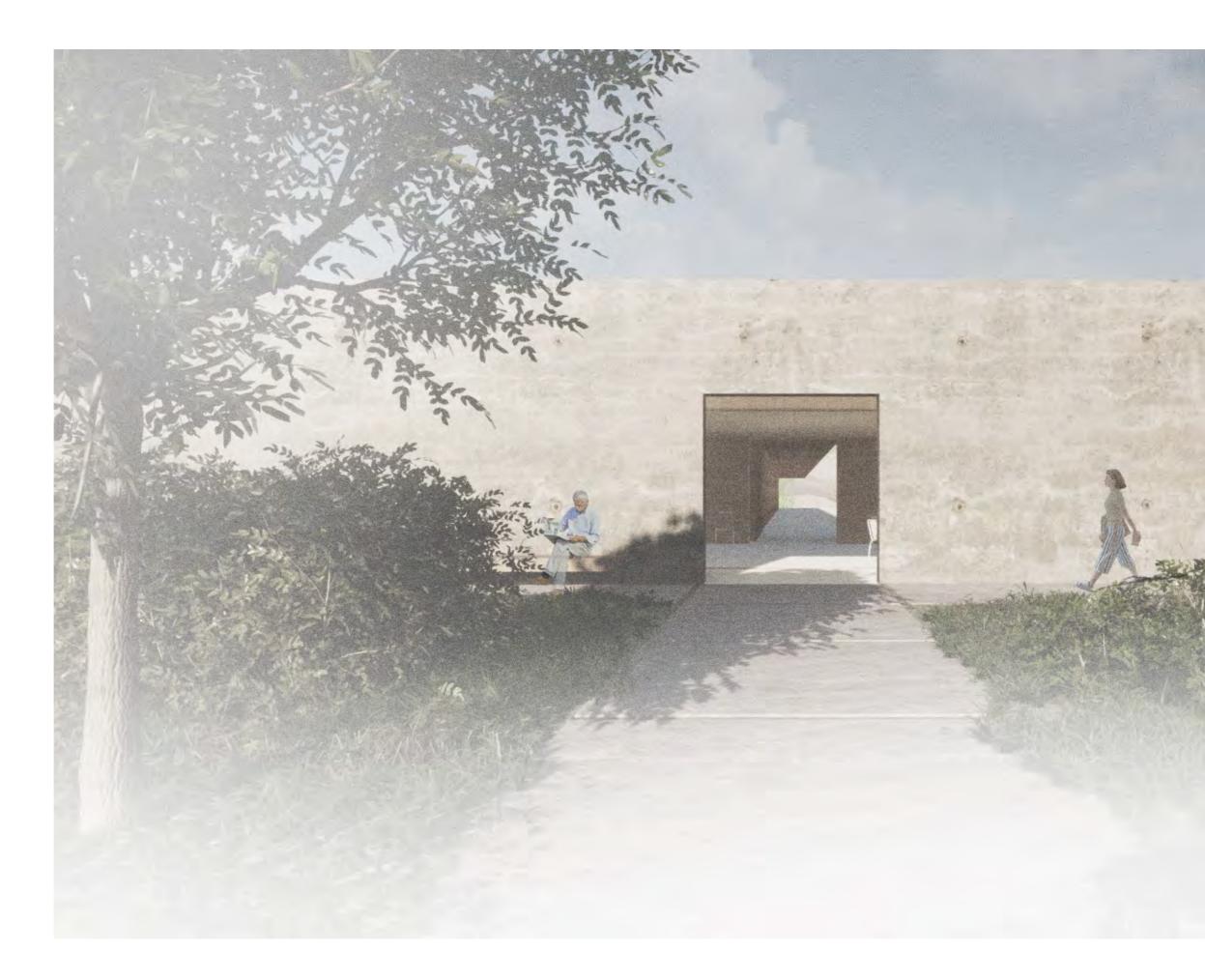
ranzaubadet



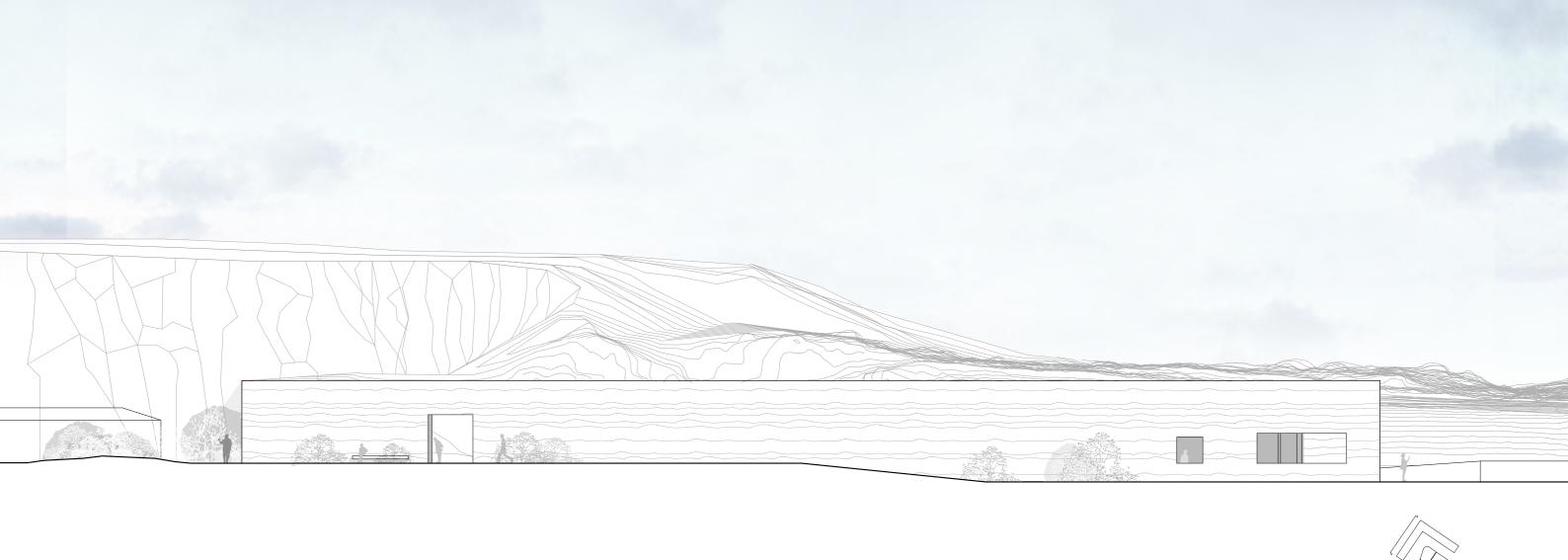




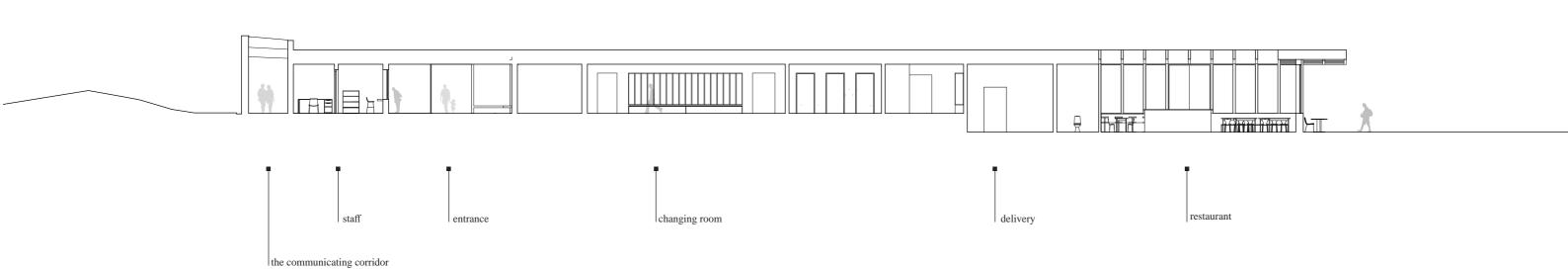
Once you approach the main entrance it's something very solid. It just stands there as if it always has and always will. The outer wall has only a few openings. The entrance has a clear sightline, following the building's north wing towards the east.



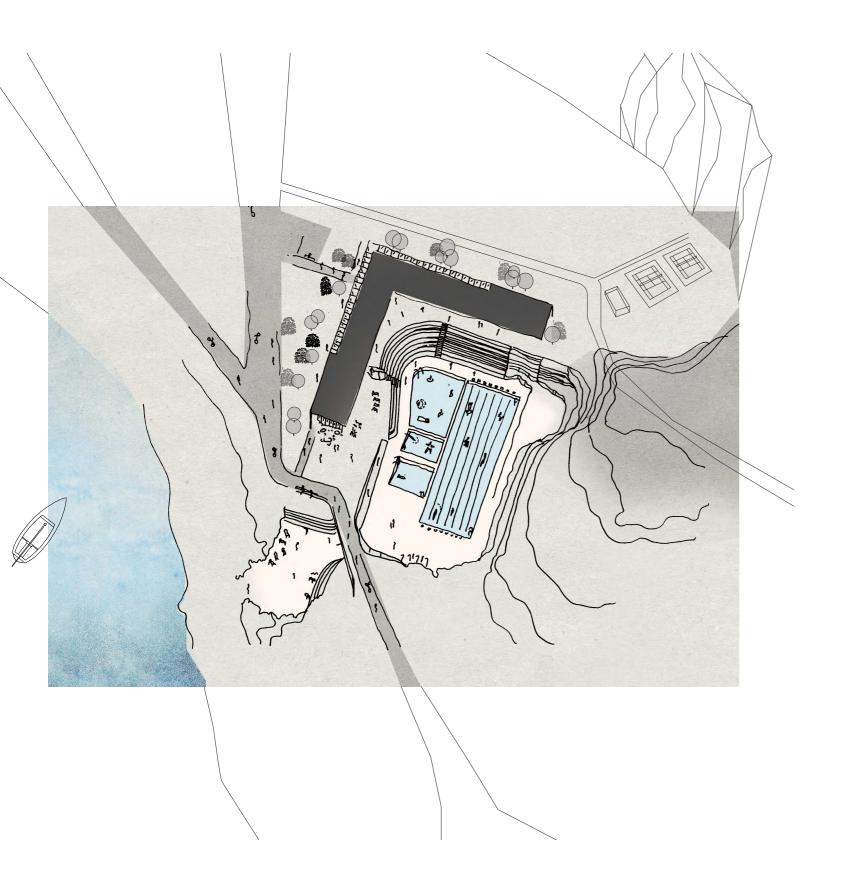
66 view of the entrance



WEST ELEVATION | 1:200







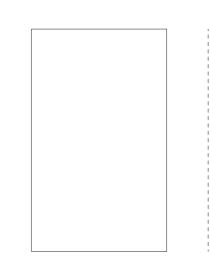
Considering I'm designing an outdoor bath - that shall be running only during the summertime I have been investigating what spaces really need to be indoors and what can be outdoors, insulated or uninsulated.

In the swedsih context - one wants to have a roof to be under when its raining, have something to protect you from the wind and let the sun warm you up after a swim.

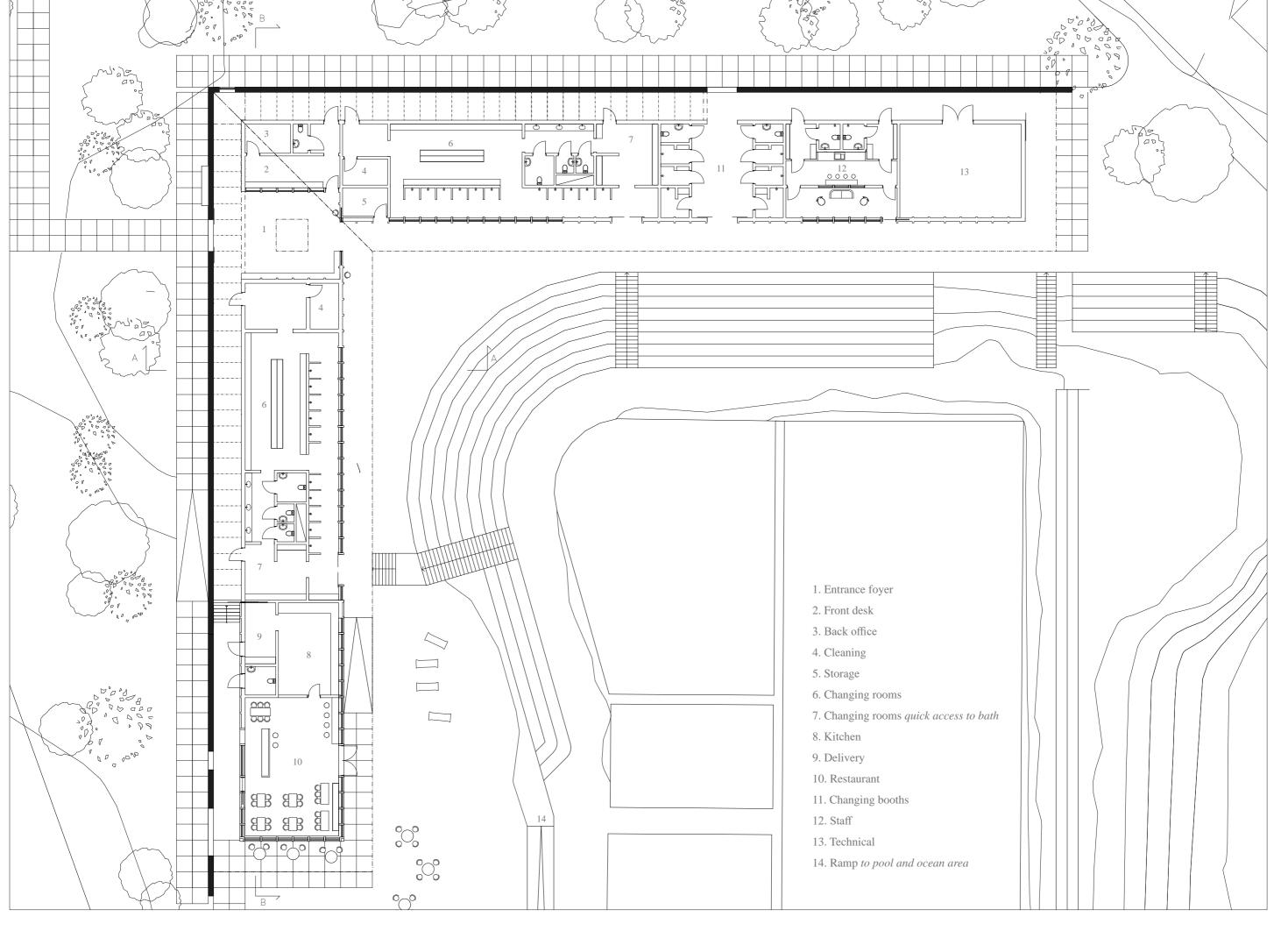
These conclusions led to a conceptual idea, shown here in both plan and section: the wall - sheltering an uninsulated communicating corridor throughout the whole building.

The load bearing insulated wooden structure within - serving as the core of the building.

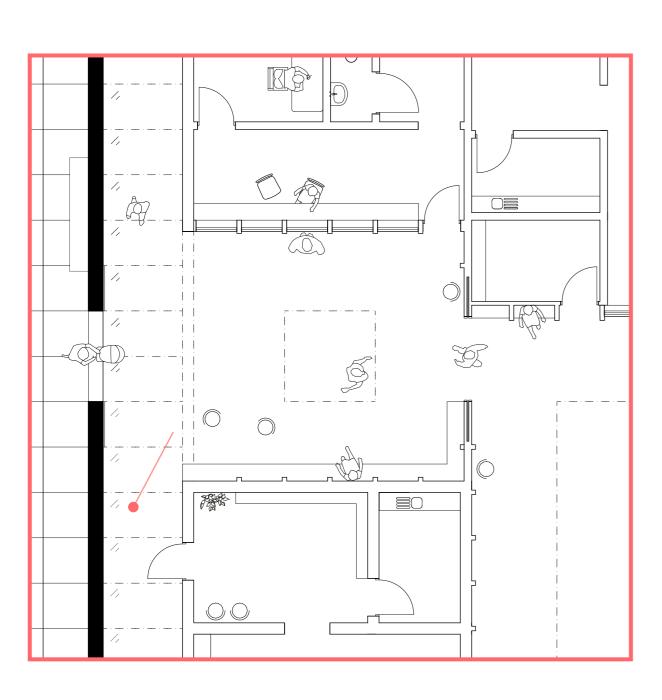
Finishing off with the cantilevered roof.



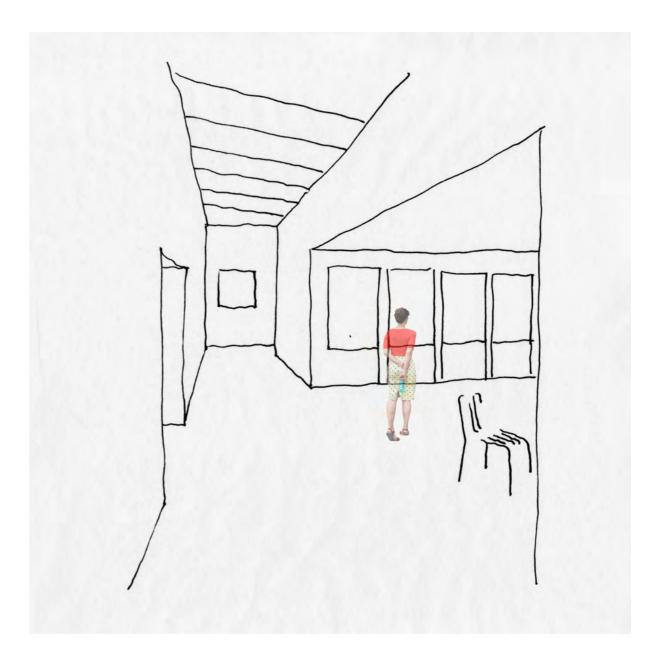






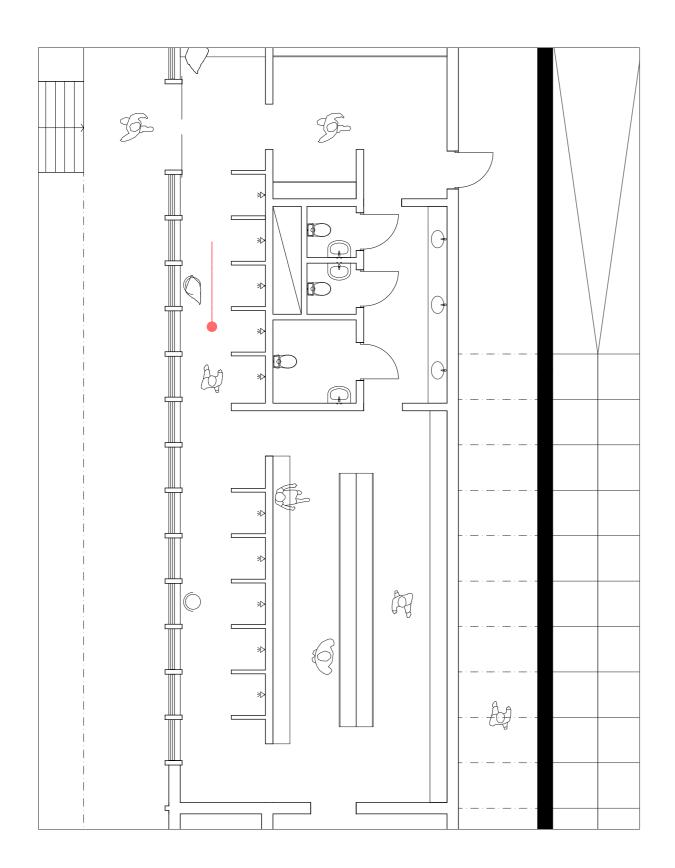


Once you enter the building you're being welcomed into this entrance square where you can pay the entrance fee, buy an ice cream or simply take a seat on a bench while waiting for friends.

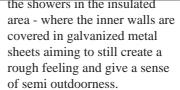






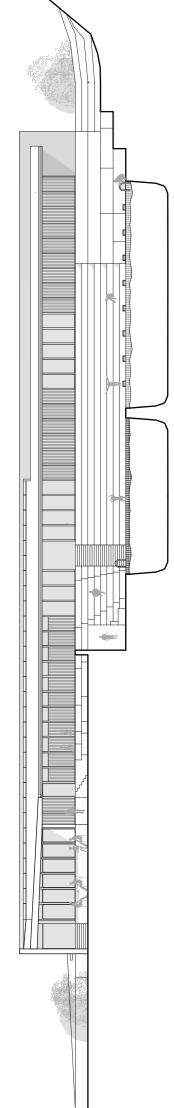








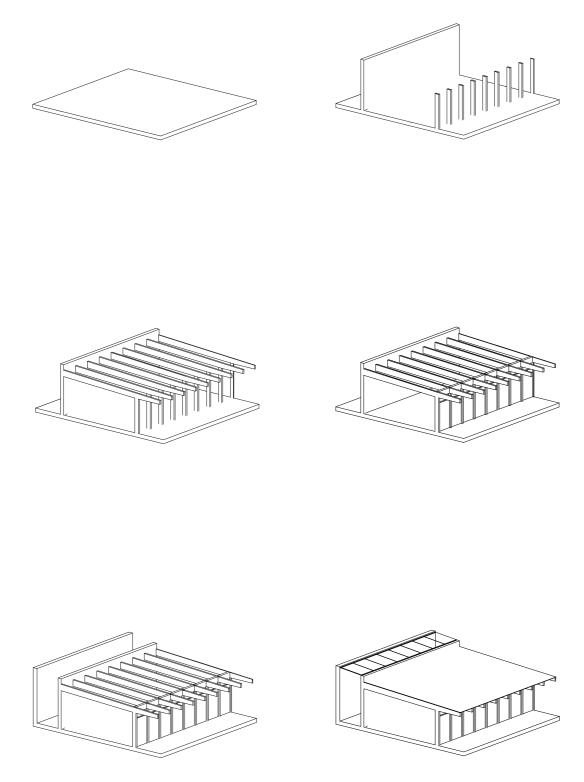
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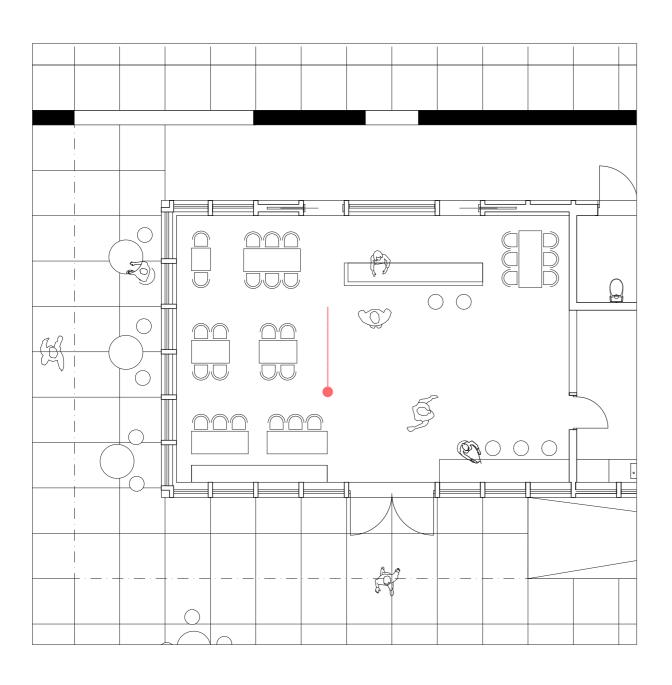




SOUTH ELEVATION | 1:300





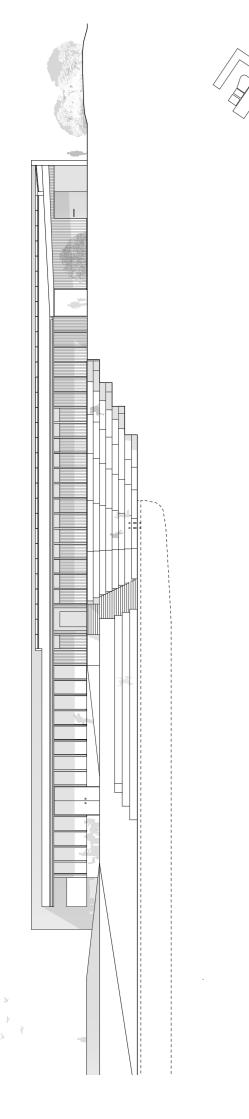


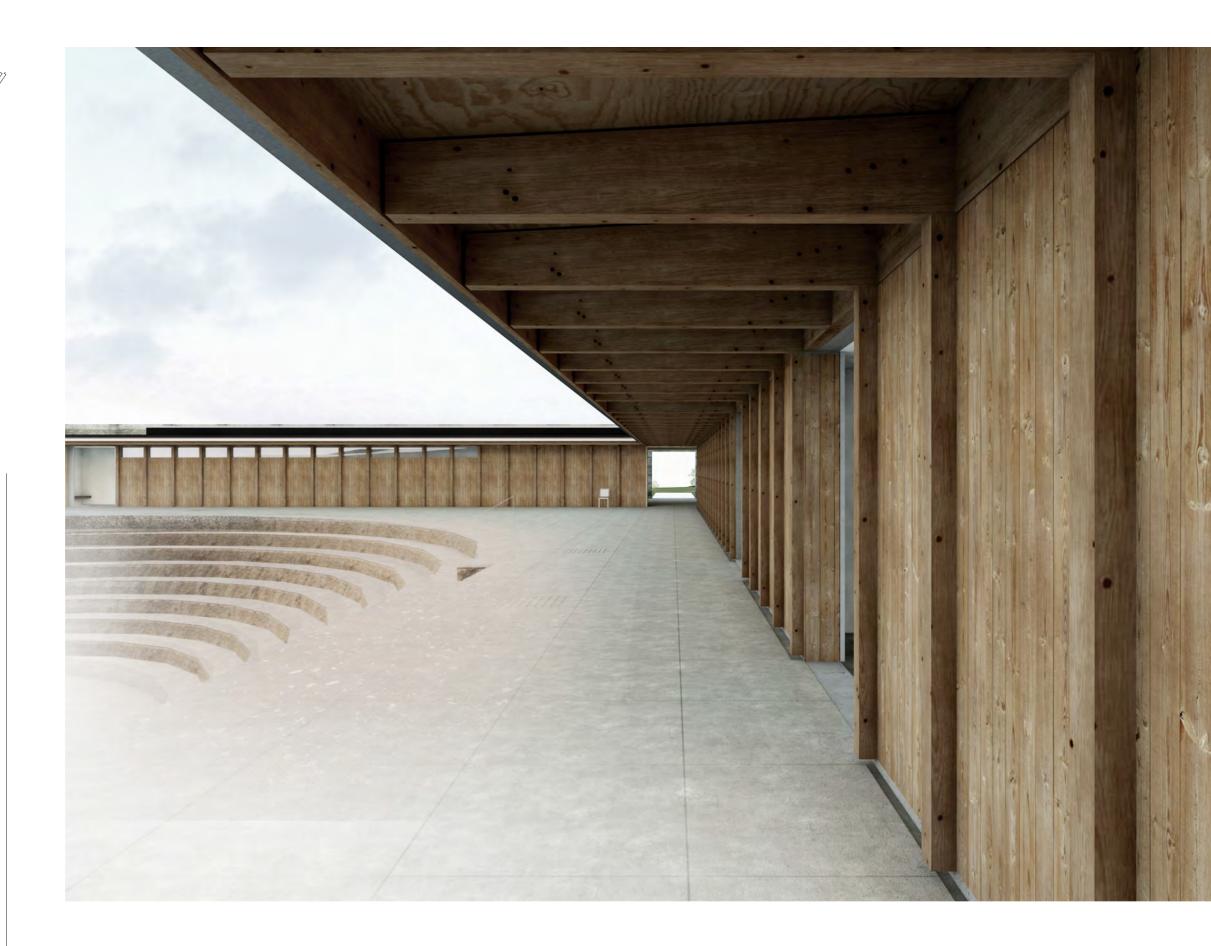
Entering the restaurant. Here one can enjoy the view like paintings - through the openings in the concrete wall. The roof height is generous and the structure is visible - creating an open and airy feeling.



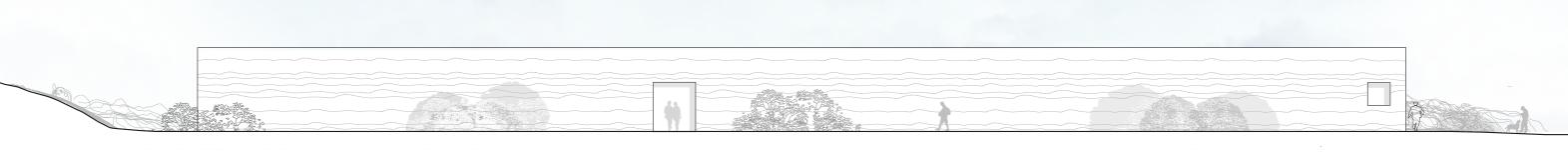








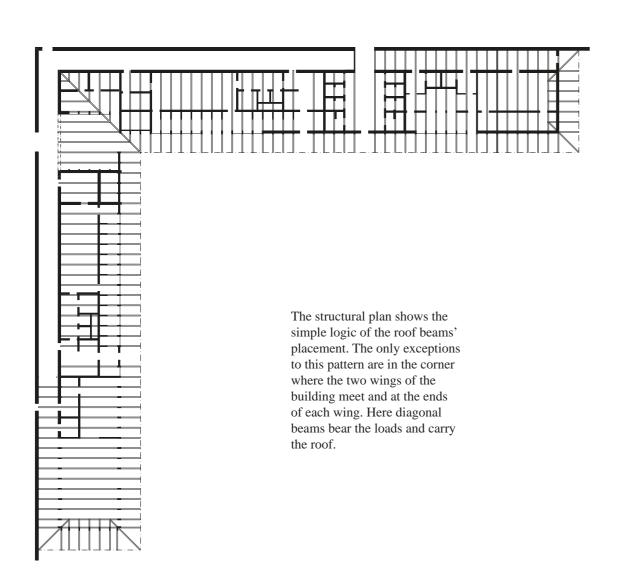
The facades towards the basins are covered in a warm wooden panel - serving as something soft for the bather to be embraced

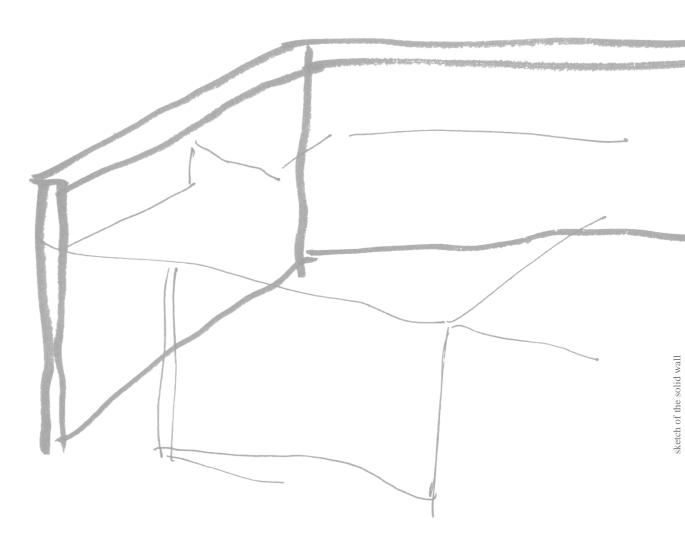




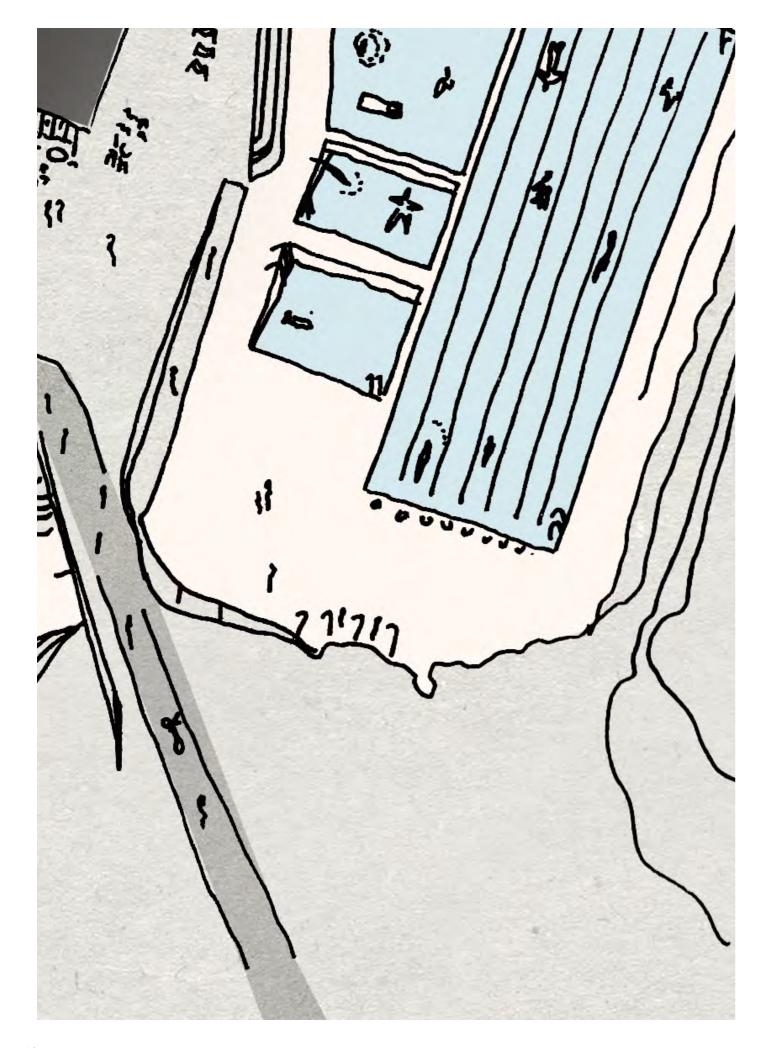
NORTH ELEVATION | 1:200

STRUCTURAL PLAN | 1:500

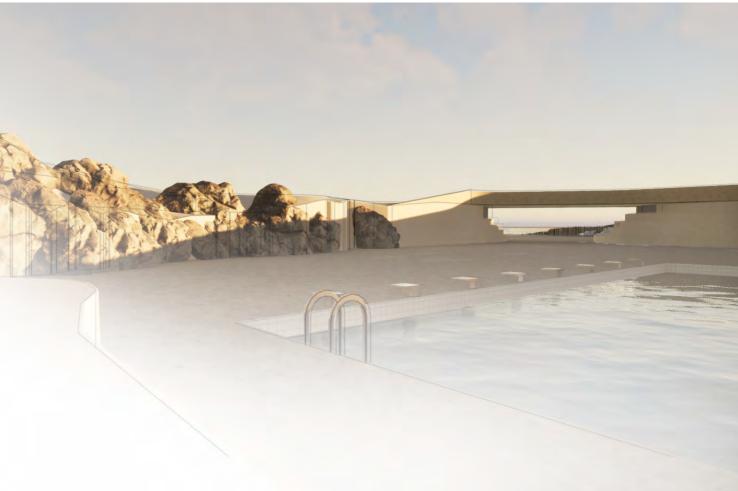






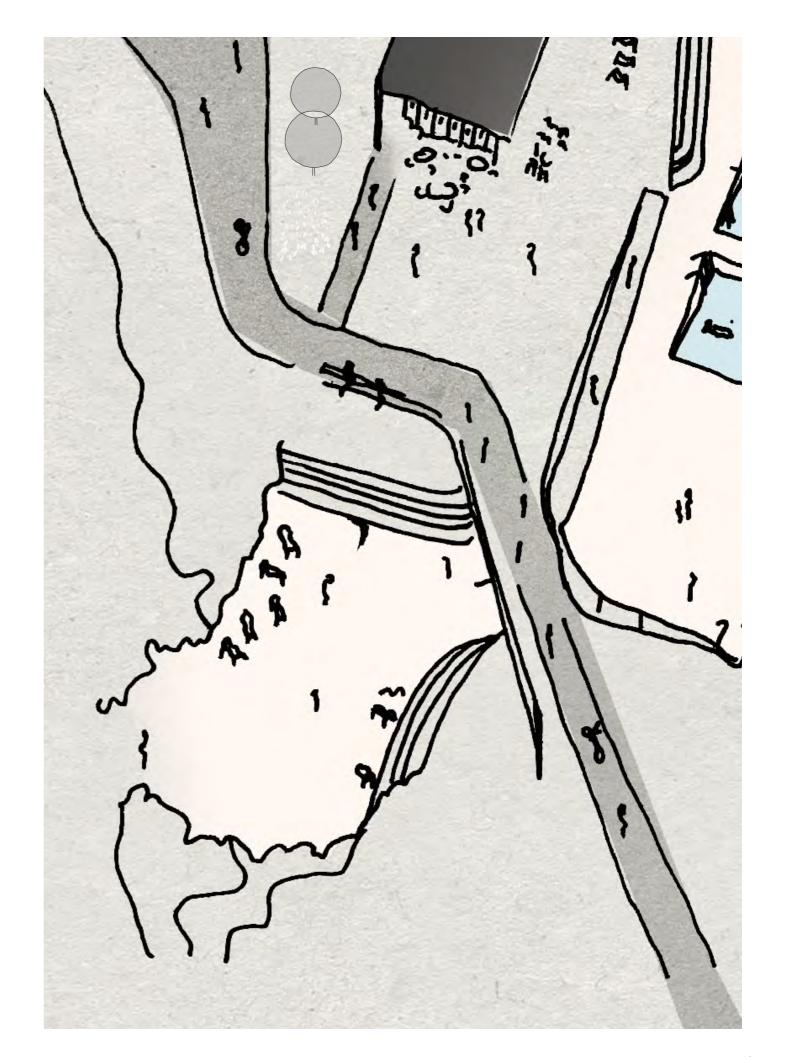


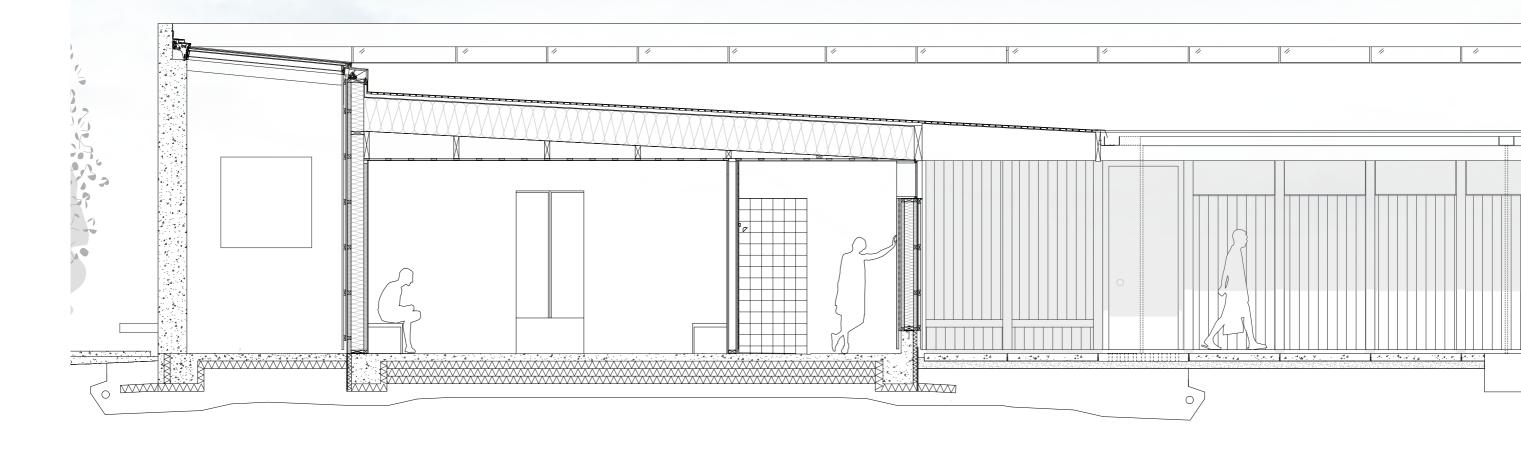


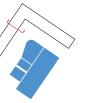






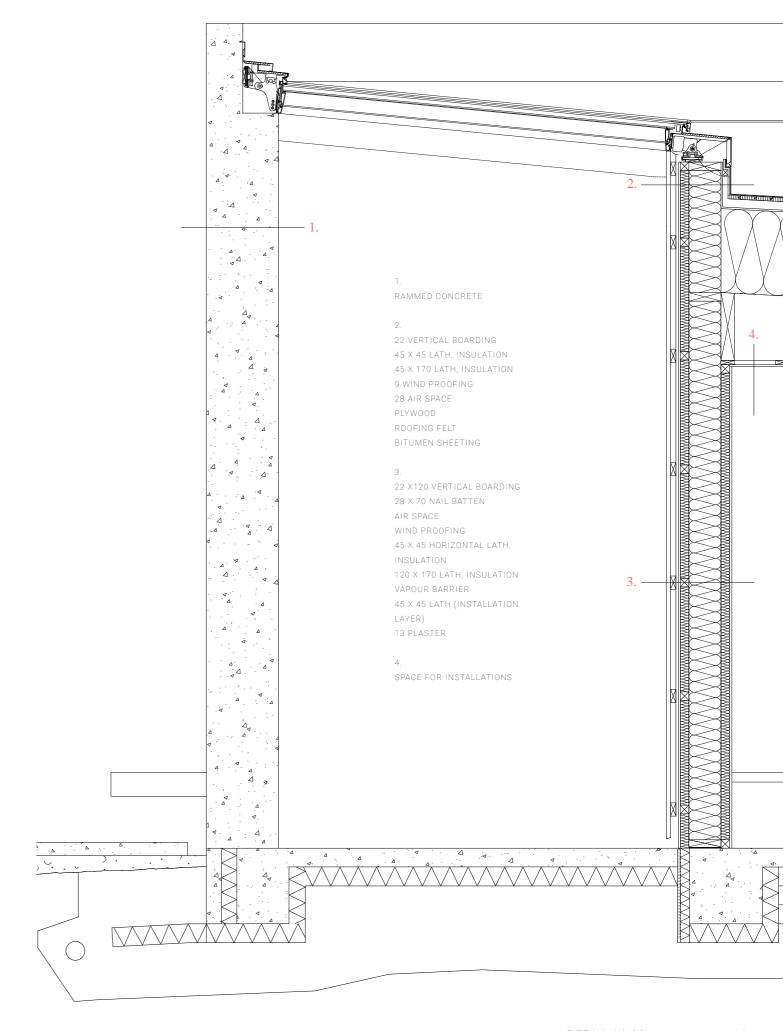






I've chosen rammed concrete for the wall. The material's particular characteristics in terms of its heavy appearance as well its solid mass gives the building the protection it needs, to be able to stand for a long time.





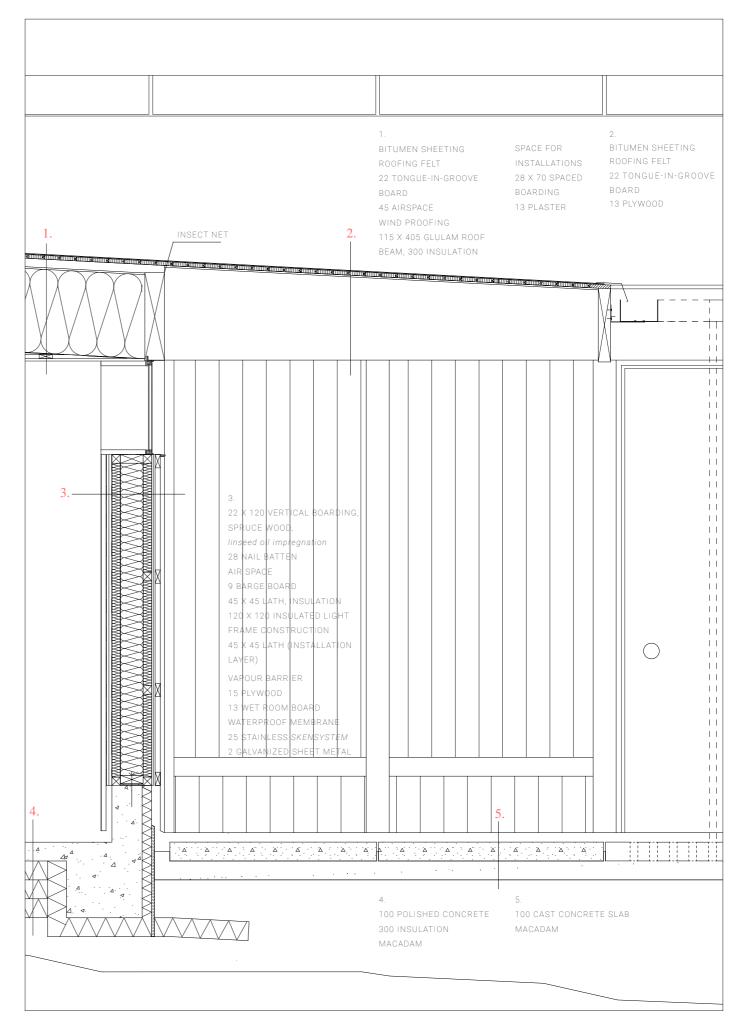
96 ELEVATION 97

The wooden structure within stands out with its characteristic protruding roof, that serves as a shelter for visitors on rainy days or when the sun is too strong.

The grid is clearly visible in the elevation, where the pillars meet with the glulam beams.

The facade panels of spruce wood are processed with linseed oil in order to keep obtain the warm tone.





8 ELEVATION DETAIL | 1:20



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#10, Simstadion around 1940 Souce: Hallands kulturhistoriska museum

#11, Map of Swedens's westcoast Souce: mapbox.com



My mum and I by the sea. Summer 2020

Rantzaubadet