WELCOME TO DRAMMEN!

diploma spring 2023 the oslo school of architecture and design

> Gustav Louis Bjørhus Askhaven supervised by Lone Sjøli

> > binder 1

WELCOME TO DRAMMEN! Binder 1

Diploma spring 2023

Gustav Louis Bjørhus Askhaven Supervised by Lone Sjøli

The Oslo School of Architecture and Design Institute of Architecture Disciplinary group: Building Art

TABLE OF CONTENTS

Organisation of the binder

CHAPTER I Research question Abstract Spatial programme

CHAPTER II Drawing set

CHAPTER III Selected model photos, collages, and oil

Acknowledgements Literature, references, illustrations

	7
	9
	11
	12
	17
	19
pastel drawings	55
	98
	99

ORGANISATION OF THE BINDER

Binder 1 contains the final project of the diploma *WELCOME TO DRAMMEN!* For process material and appendices containing further model and site photos as well as texts, see Binder 2. The binder is divided into three chapters:

7

CHAPTER I contains the research question, abstract, and spatial programme.

CHAPTER II presents the drawing set, consisting of 18 drawings. Scales 1:10000, 1:2000, 1:400, 1:200, and 1:50.

CHAPTER III is a collection of selected model photos of 1:1000, 1:50, and 1:20 project models, as well as collages and oil pastel drawings made earlier in the semester that still communicate the atmosphere of the project as it stands at the point of delivery.

CHAPTER I

8

RESEARCH QUESTION, ABSTRACT, AND SPATIAL PROGRAMME

RESEARCH QUESTION

Can the need for a new main gate to the Port of Drammen be met by an architecture which improves the workday and is a gesture toward those working there, while also manifesting the port's importance to the identity of the city?

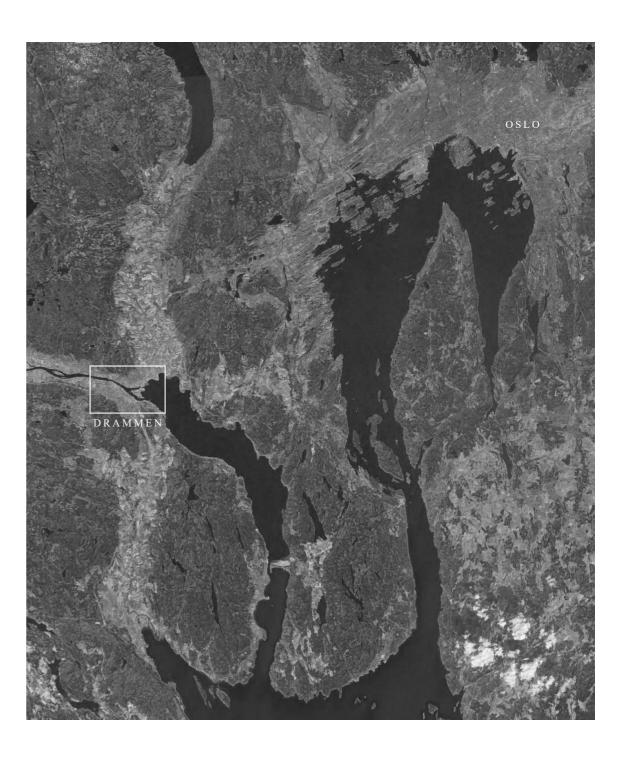
ABSTRACT

The diploma *WELCOME TO DRAMMEN!* works with the Port of Drammen, located mainly on the island of Holmen close to the centre of the city. Situated about 40 kilometres south-west of Oslo, Drammen is home to one of the biggest ports in Eastern Norway. As in other Northern European port cities, for instance Oslo, Drammen is redeveloping parts of its waterfront from logistical to residential, business, and recreational use, in Norway referred to as "Fjordbyen", leaving less land for port activities.

However, as opposed to for example Oslo, where the port is being moved further away from the city, Drammen has chosen a different strategy: the city is co-localising all of its port to Holmen, the part of the current port which is closest to the city centre. This puts Drammen in a position where the presence of the port in the city, despite its total loss of area, could potentially grow. However, if not physically, Drammen wishes to distance the port in other ways - new office buildings and green belts are planned to shield the nearby city from the increasing activity at Holmen.

As part of this restructuring process, the Port Authority is relocating and building a new main gate and guard house for workers and truck drivers alike to access the ISPS area of the port. ISPS (International Ship and Port Facility Security) is the fenced-in, publicly inaccessible area within which goods are stored and port operations take place. The given site and the need for a new main gate is the starting point for this diploma, and it seeks to explore what happens if the gate is considered an important social node and a symbol of the port rather than just an entry. The programme of the main gate is expanded, and includes new offices for the Port Authority, a common canteen for the entire port, as well as bedrooms and an adjoining sauna for truck drivers coming in at night. In doing so, the diploma sets out to provide a variety of new spaces which improve the workday for the over 1000 people coming to Holmen for work every day. At the same time, it wishes to strengthen the relationship between the port and the people of the Drammen, questioning the outspoken wish of the port to use green belts and offices to put itself out of view from the city.

The new main gate relates to and enters a dialogue with the port and its existing elements, both referencing and contrasting them. It strives for a permanent and bold expression while being informal in use, is both serious and playful, realistic and speculative. Merging thoughtfully sculpted bedrooms and offices, generous common spaces inside and outside, and an explorative construction with the matter-of-fact requirements of the transportation sector, *WELCOME TO DRAMMEN!* uses architecture as a tool to discuss the value we assign to the workers and the supply chain upon which we depend, and challenges the prevailing idea of profit over all else - all the time balancing between the pragmatic and the poetic.



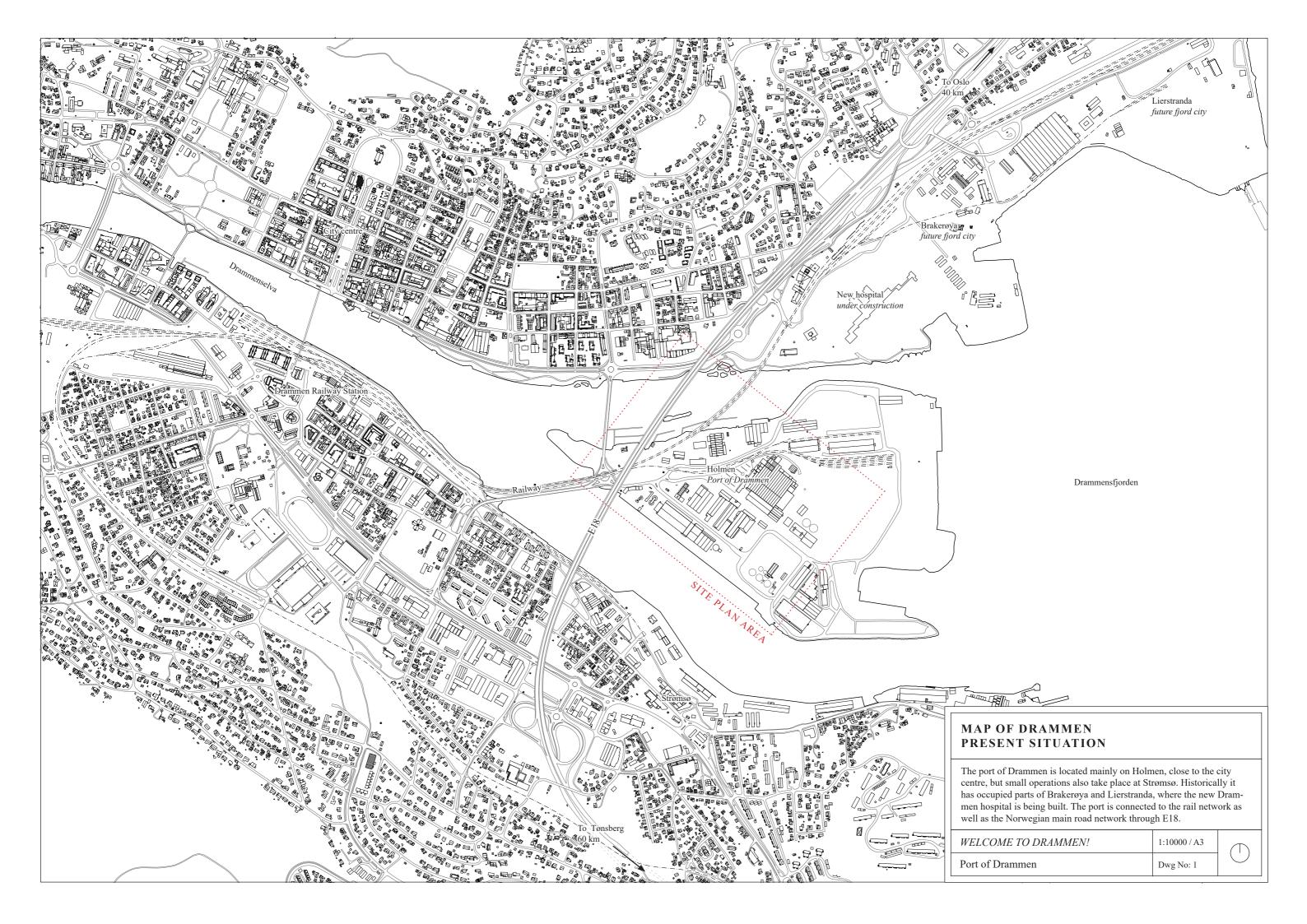
Satellite image of Drammen, Oslo, and the Oslo Fjord.

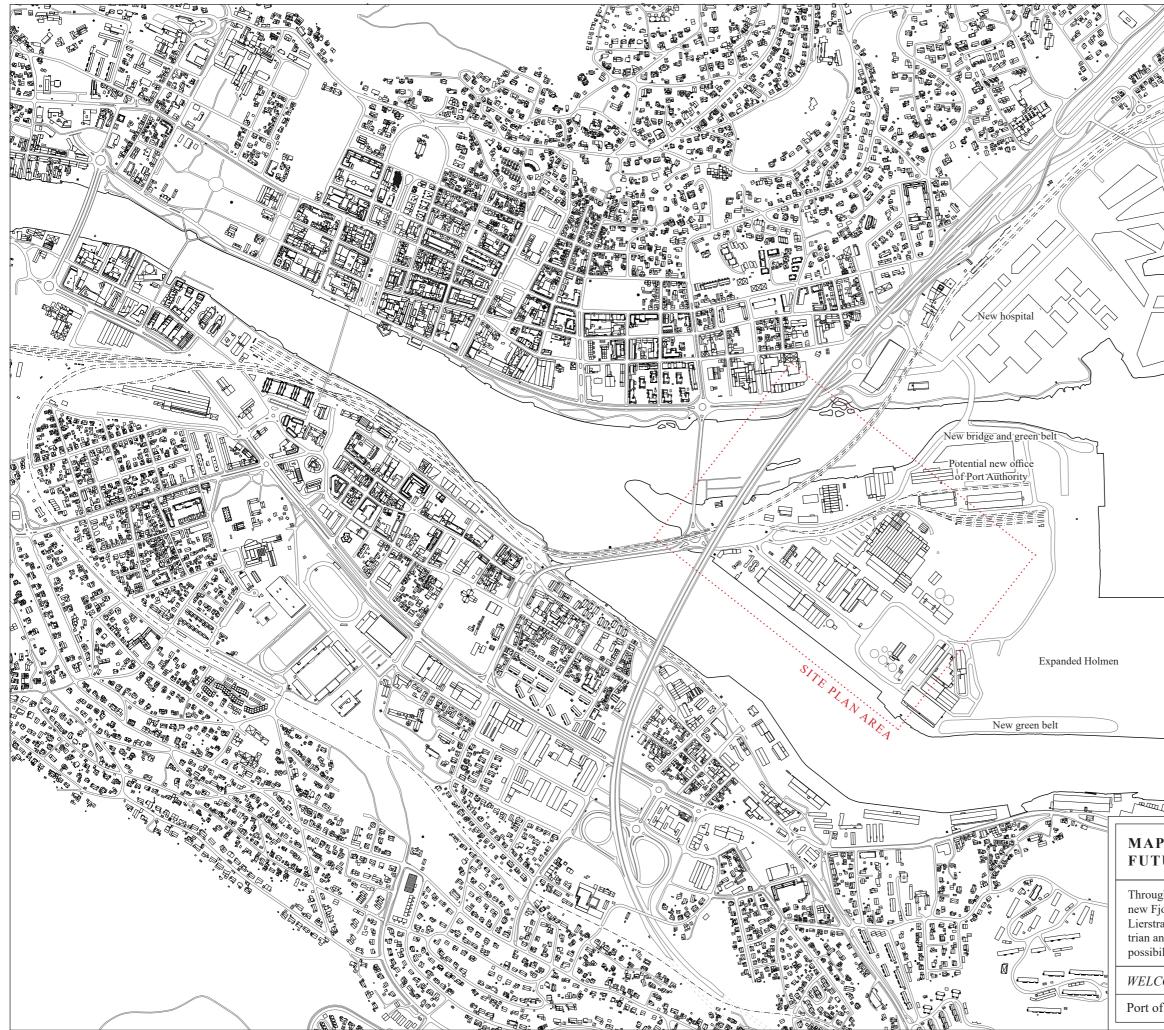
SPATIAL PROGRAMME

Main gate to the ISPS area of the Port of Drammen. Guard house with service functions. Office of the Port Authority of Drammen. Common room and canteen open to the public. Sleeping quarters for truck drivers + sauna. Car and truck parking.

CHAPTER II

DRAWING SET



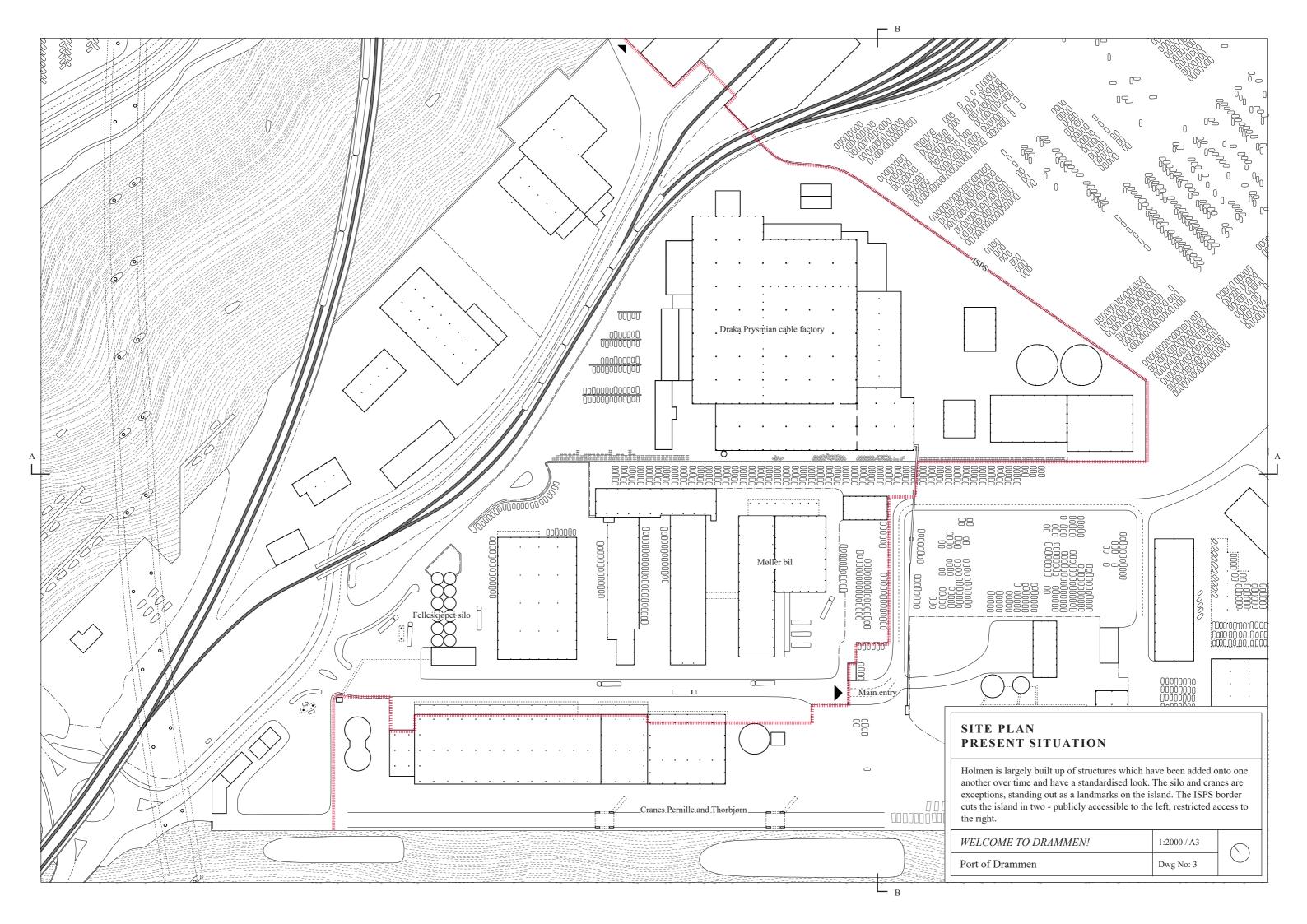


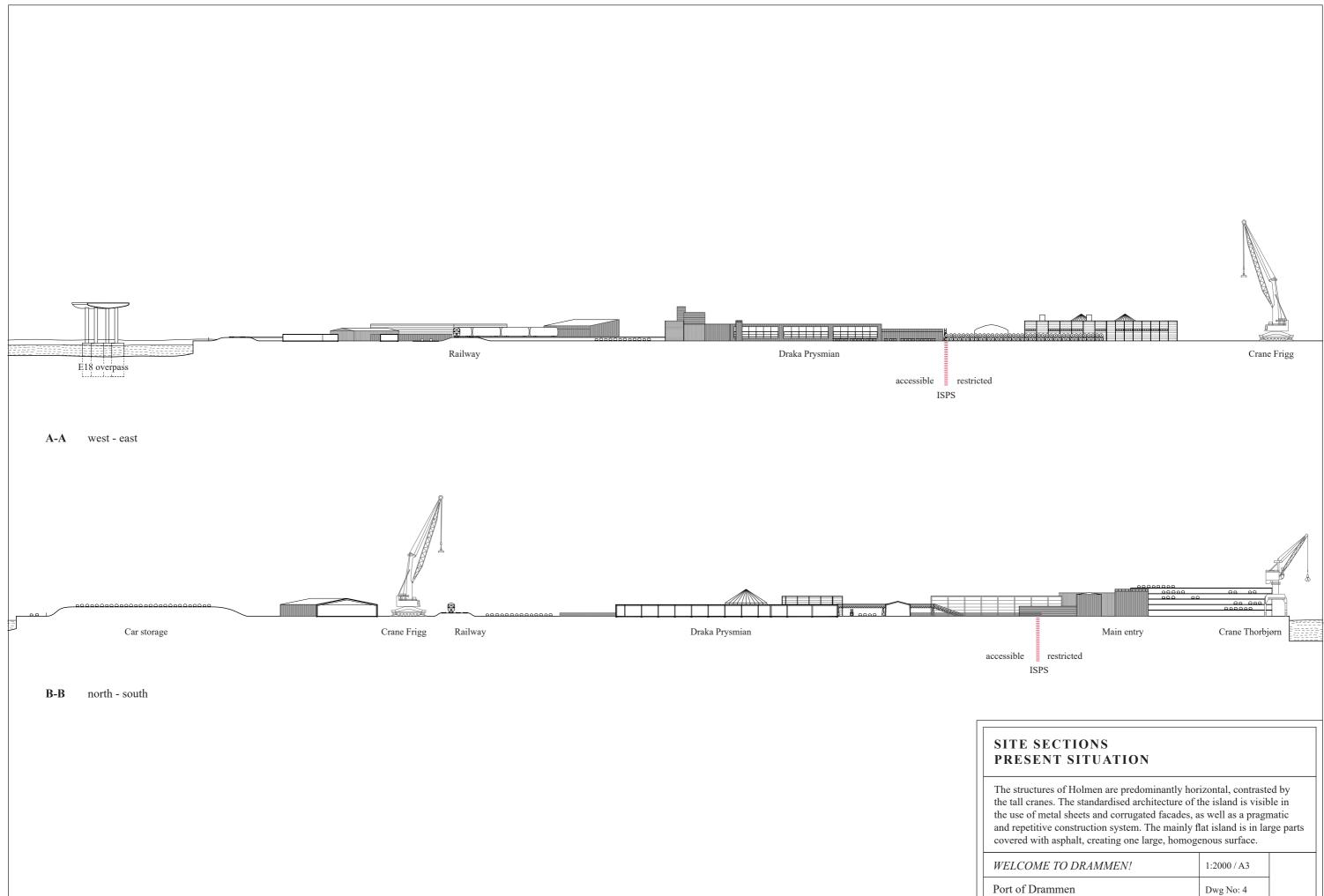
	$\{ \mid$
Find situ	
Fjord city	
	1
~ [
\sim	
/ }	
<u>^</u>	
	1
P OF DRAMMEN	
	L

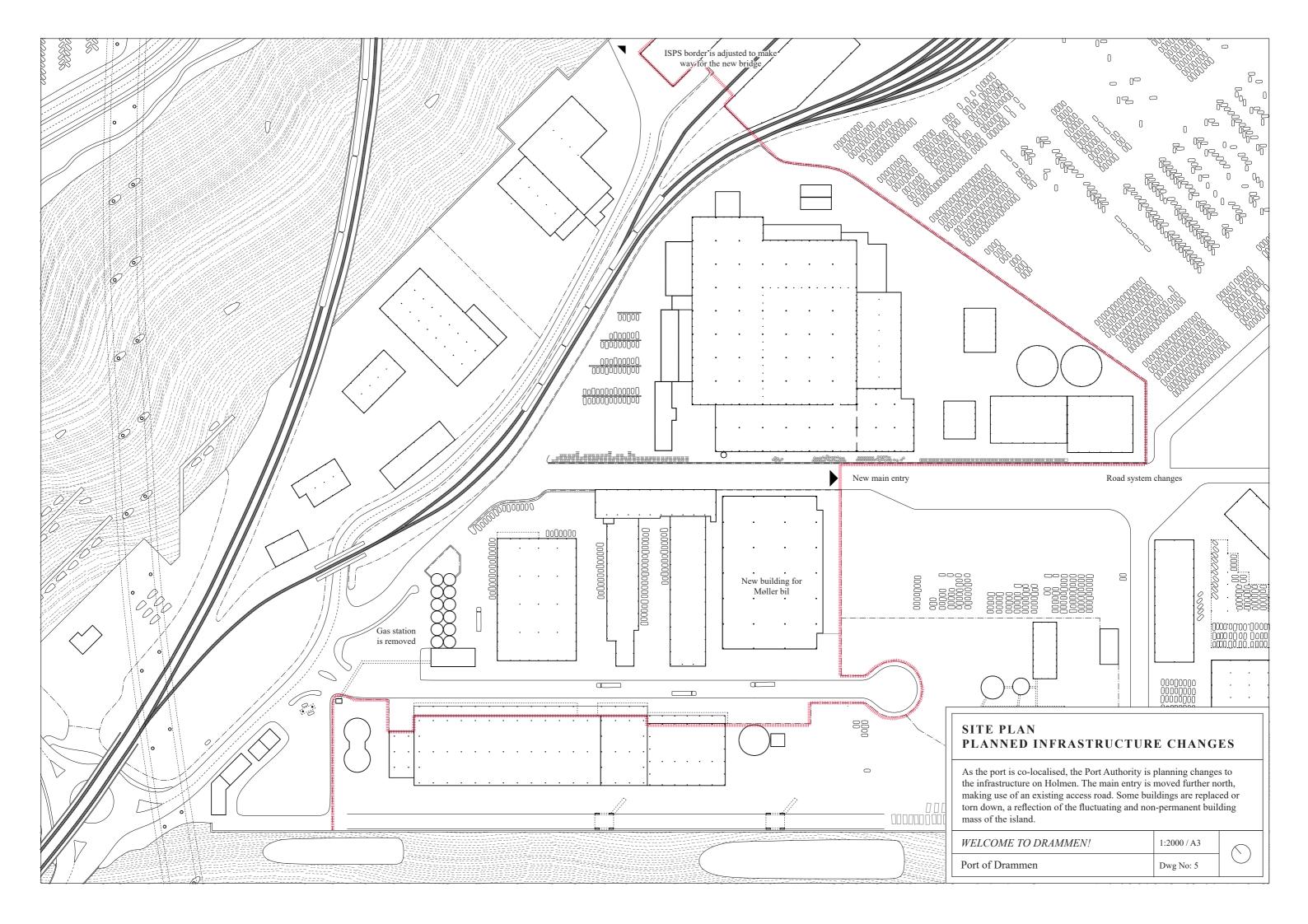
FUTURE SCENARIO CA. 2035

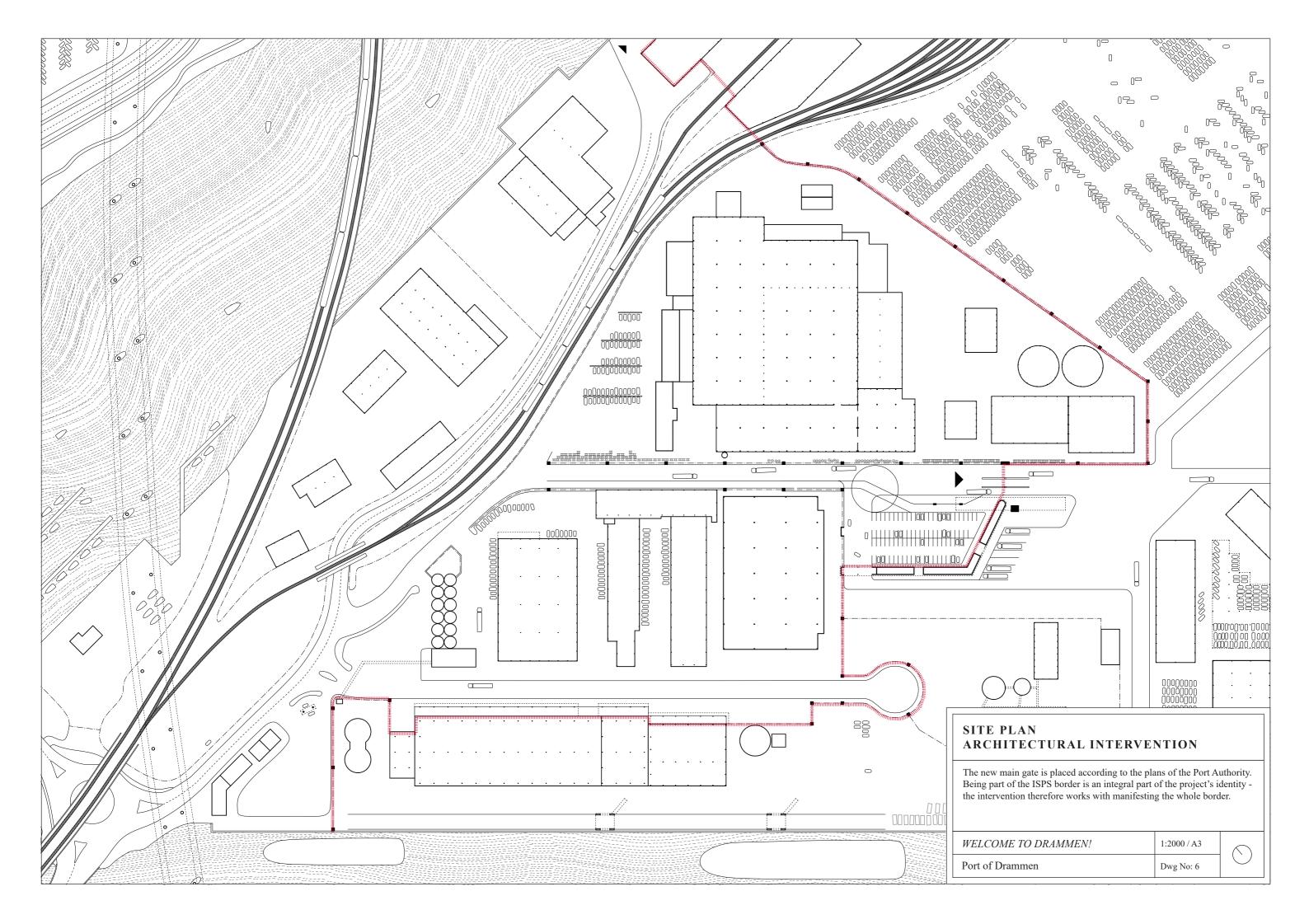
Through landfill Holmen grows and port operations are co-localised. A new Fjord City is established at the previous port areas Brakerøya and Lierstranda alongside the new hospital, connected to Holmen by a pedestrian and bus bridge, increasing foot traffic over Holmen and opening up possibilies for new public transportation routes.

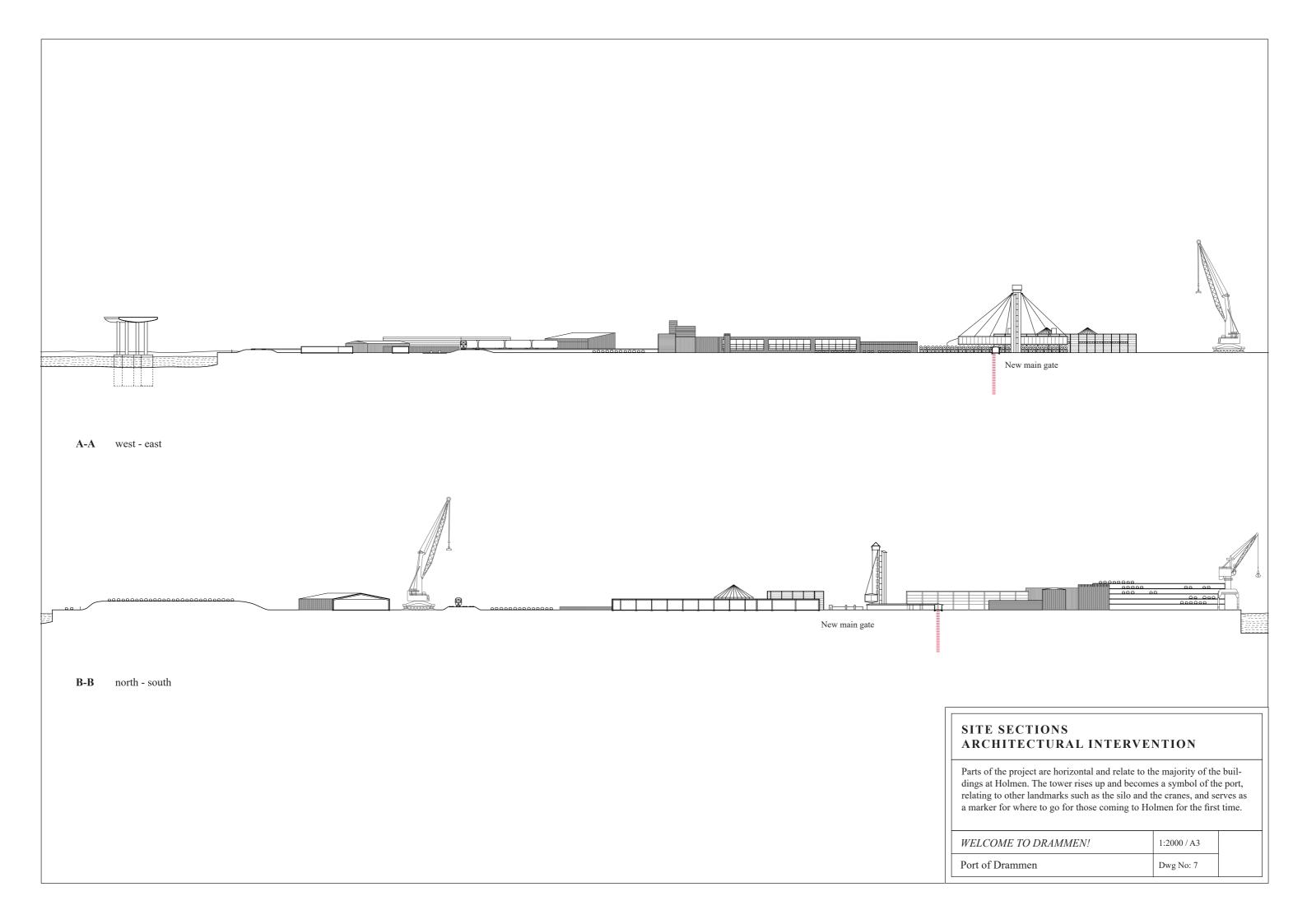
COME TO DRAMMEN!	1:10000 / A3	\square
f Drammen	Dwg No: 2	\bigcirc

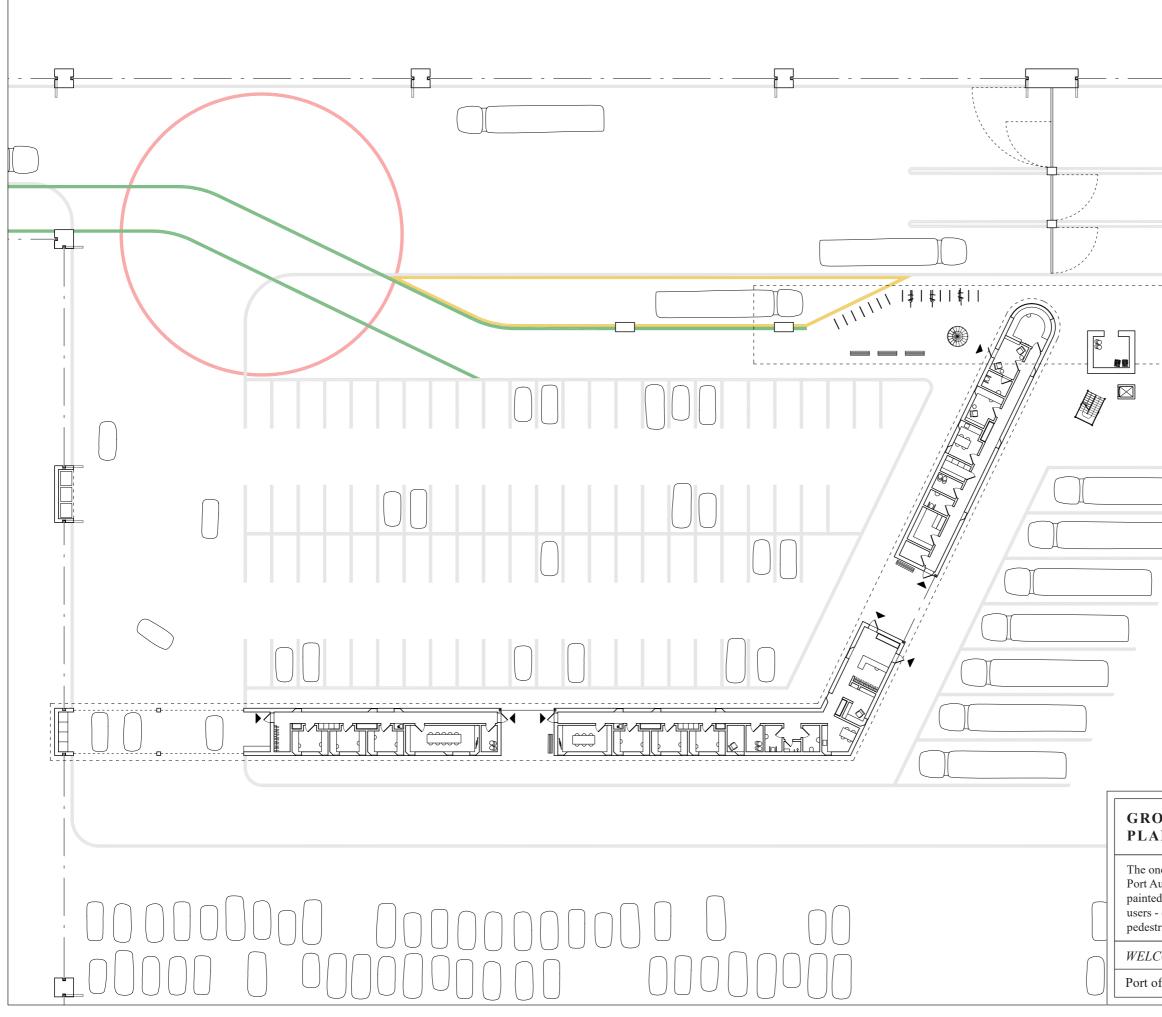




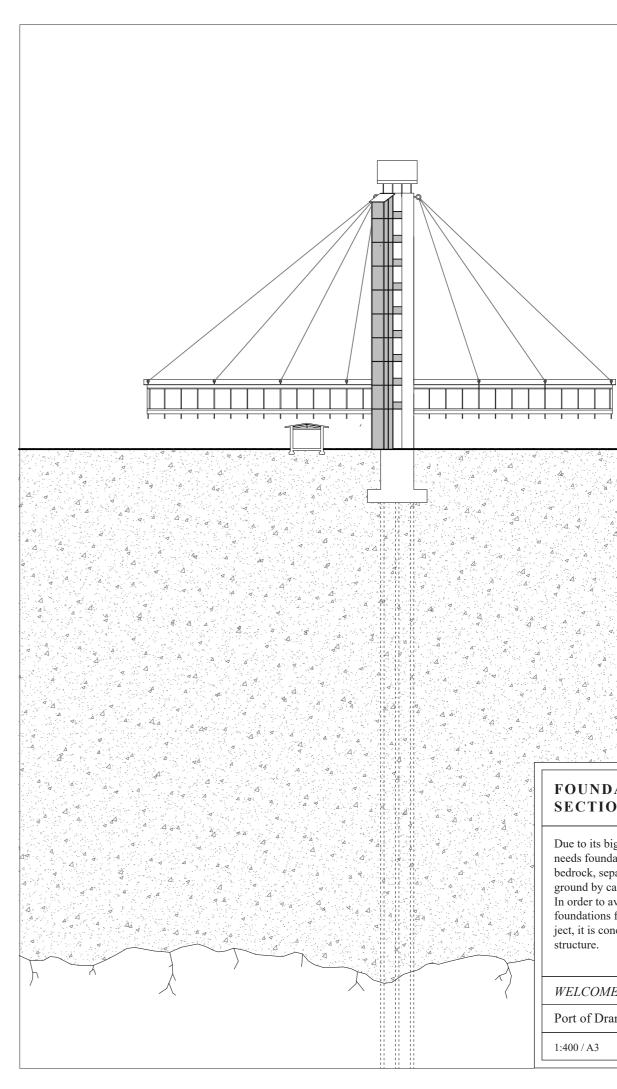








OUND LEVEL An		
ne-storey volume conatins the guard house Authority. Outside, the asphalt remians a sin ed in different colours marking the zones in - driving surfaces, waiting pockets, a truck trian and bicycle path leading to the main e	ngle surface, with tended for differ turning circle, a	n lines ent
COME TO DRAMMEN!	1:400 / A3	
of Drammen	Dwg No: 8	$ \cup $



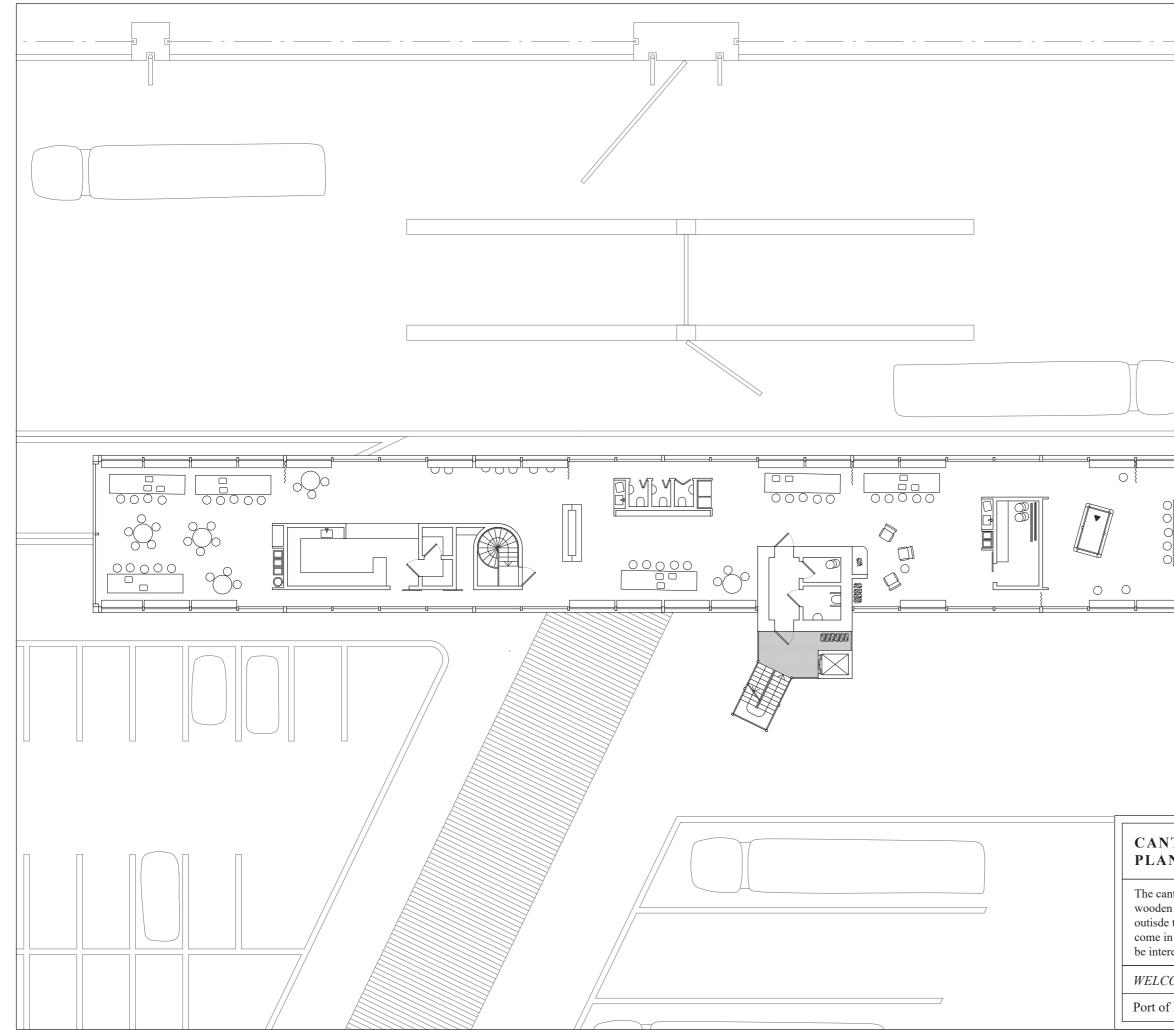
FOUNDATION SECTION

Due to its big loads, the tower needs foundations down to the bedrock, separated from the ground by ca. 80 metres of clay. In order to avoid equally massive foundations for the rest of the pro-ient it is conceived as a separate ject, it is conceived as a separate

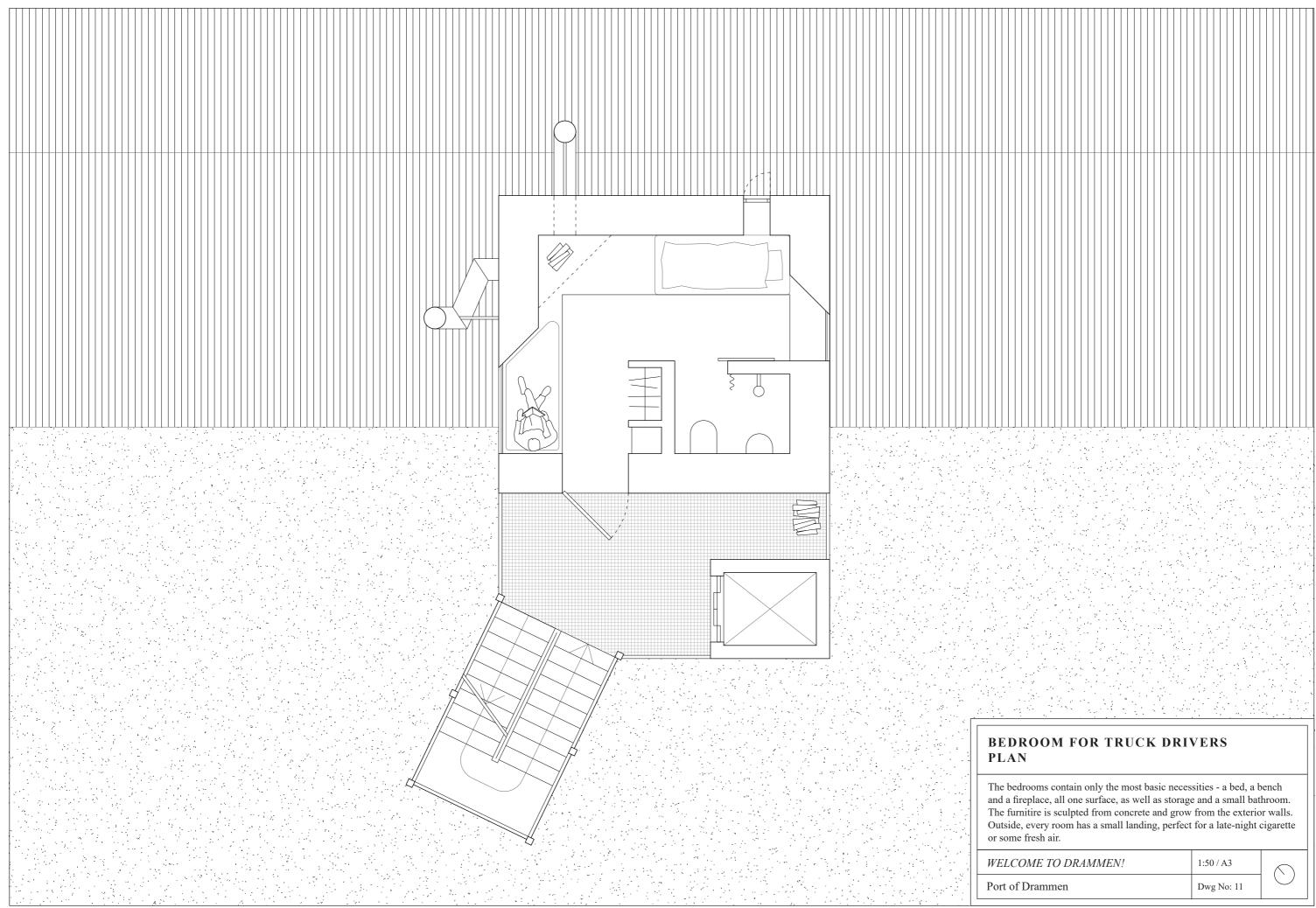
WELCOME TO DRAMMEN!

Port of Drammen

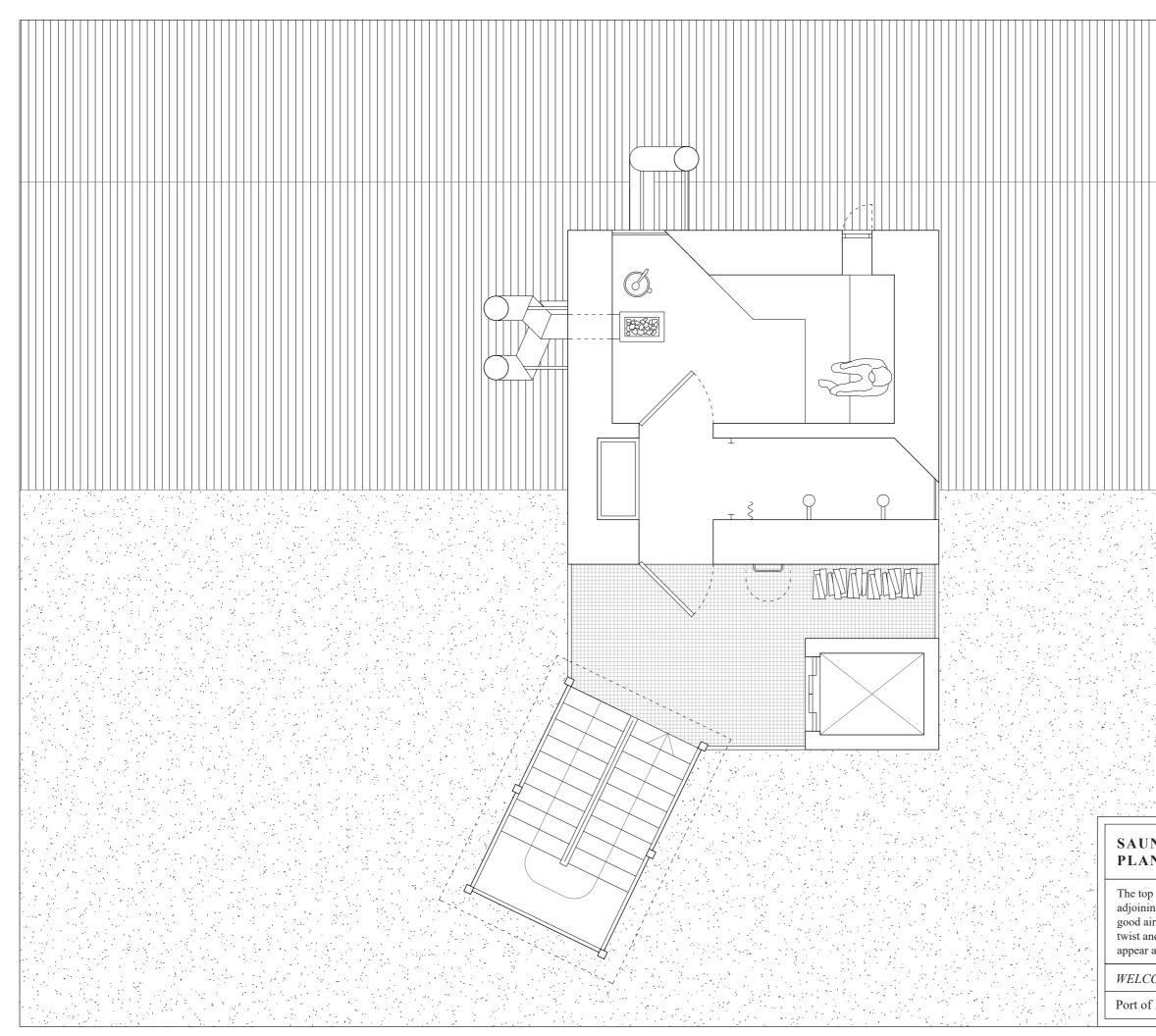
Dwg No: 9



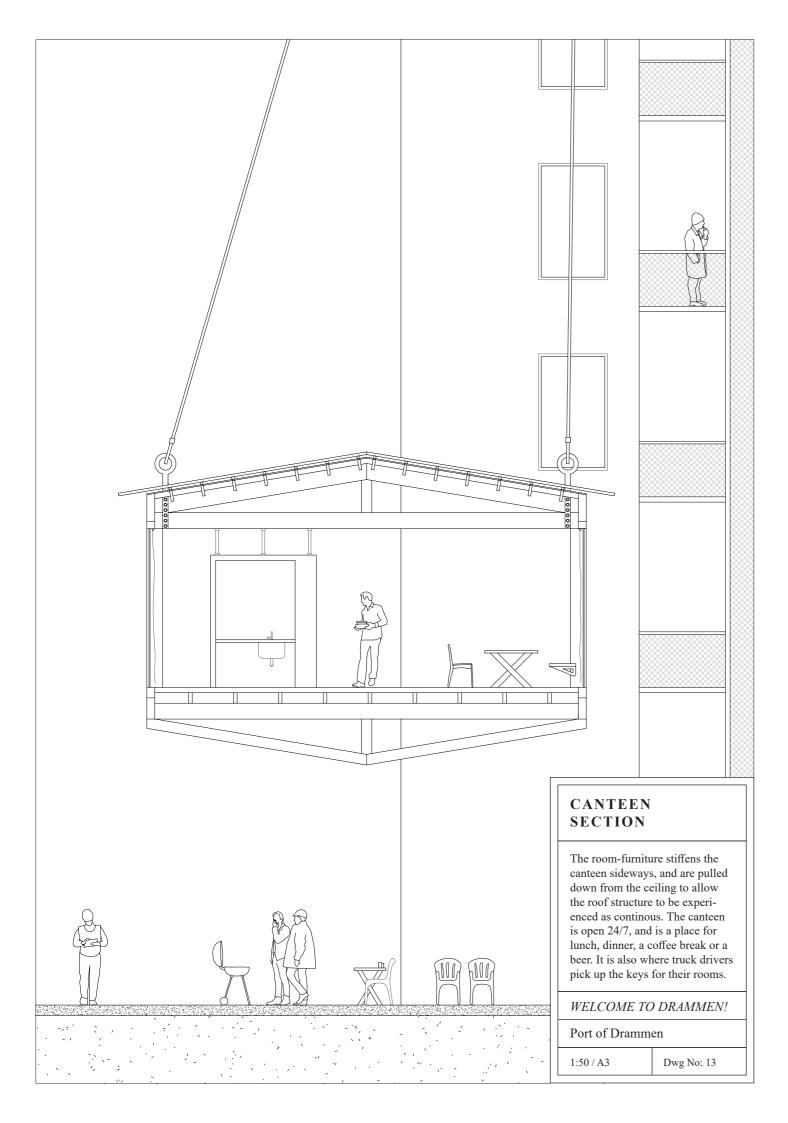
TEEN N nteen is a single room of 70 metres, divide n room-furniture elements. It is accessible	ed into different	areas by
the ISPS area, allowing others than those and have a look at the port, should they rested in such things.	e working in the	port to
OME TO DRAMMEN!	1:200 / A3	
Drammen	Dwg No: 10	

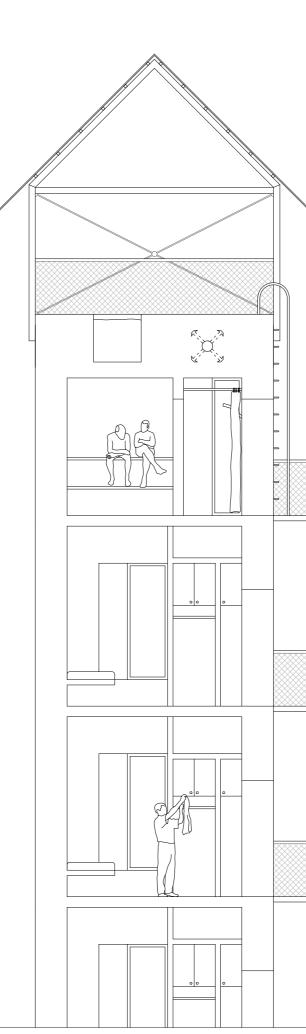


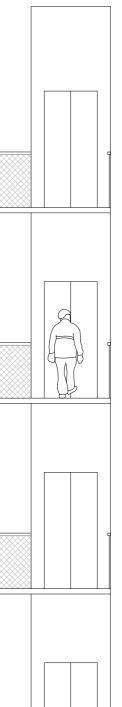
COME TO DRAMMEN!	1:50 / A3	\bigcirc
f Drammen	Dwg No: 11	\bigcirc



NA N o floor of the tower is occupied by the wo		
ng shower room. The many chimneys are irflow in all the fireplaces, and the chimne and bend along the exterior wall in order to and new chimneys emerge from the towe	eys of the lower lower lower lower lower lower by the second second second second second second second second s	evels
OME TO DRAMMEN!	1:50 / A3	
Drammen	Dwg No: 12	







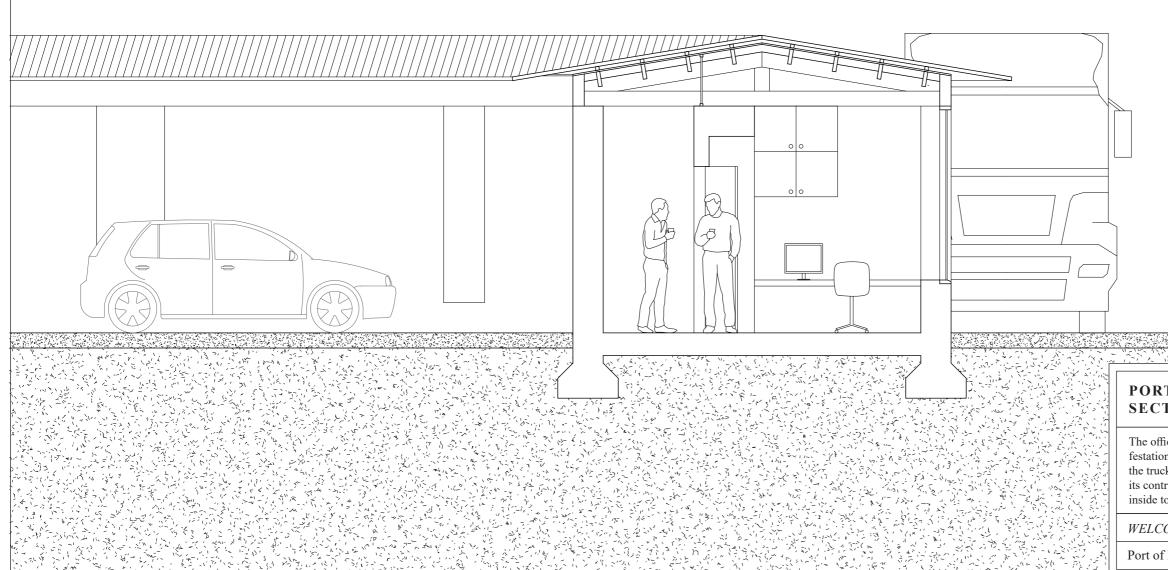
TOWER SECTION

On top of the tower lies a cold bath next to the anchor for the cables. It is reached from the sauna underneath using a ladder on the facade of the building. The space is open except for the translucent plastic roof, turning the tower into a lighthouse during the dark hours.

WELCOME TO DRAMMEN!

Port of Drammen

1:50 / A3

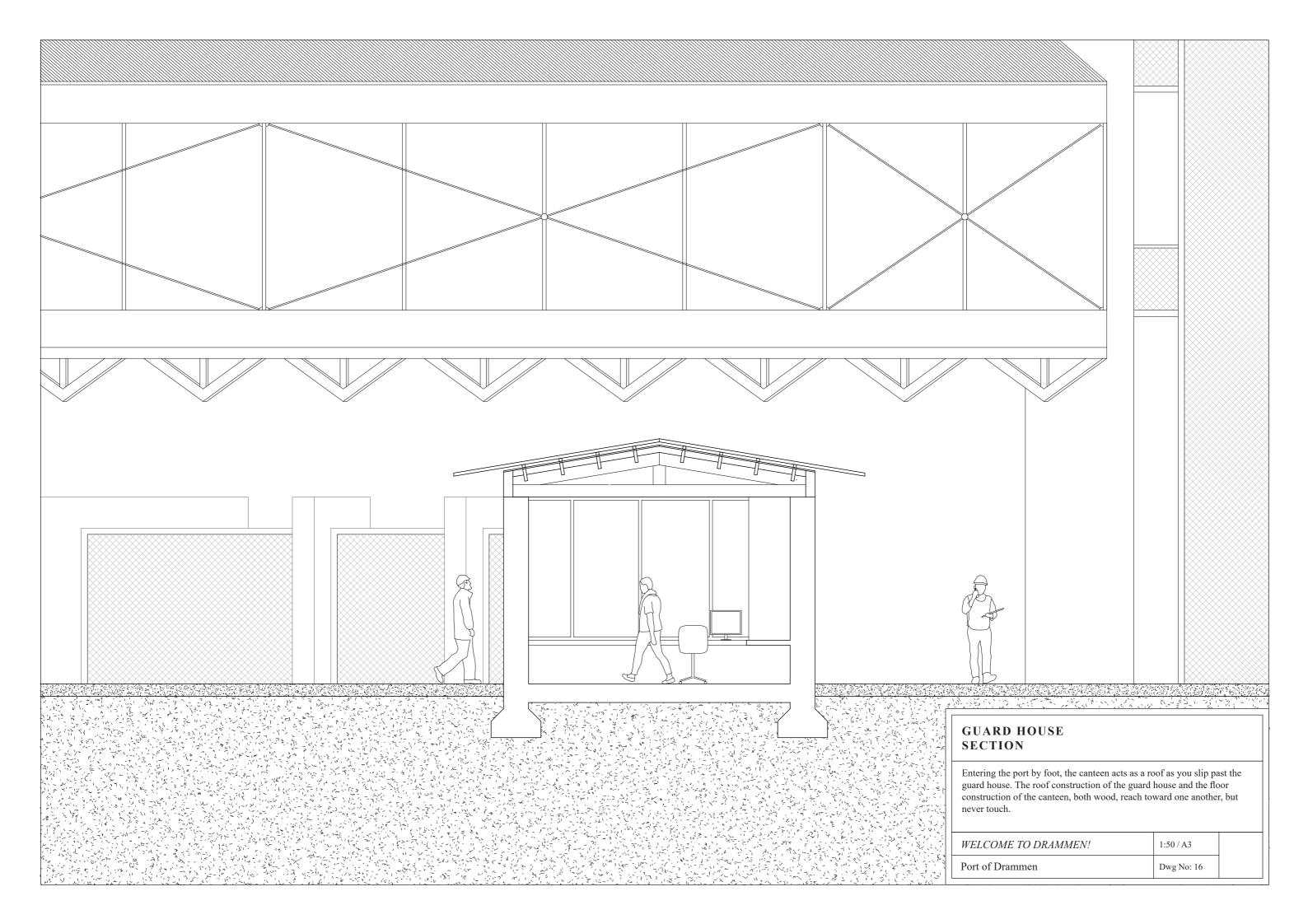


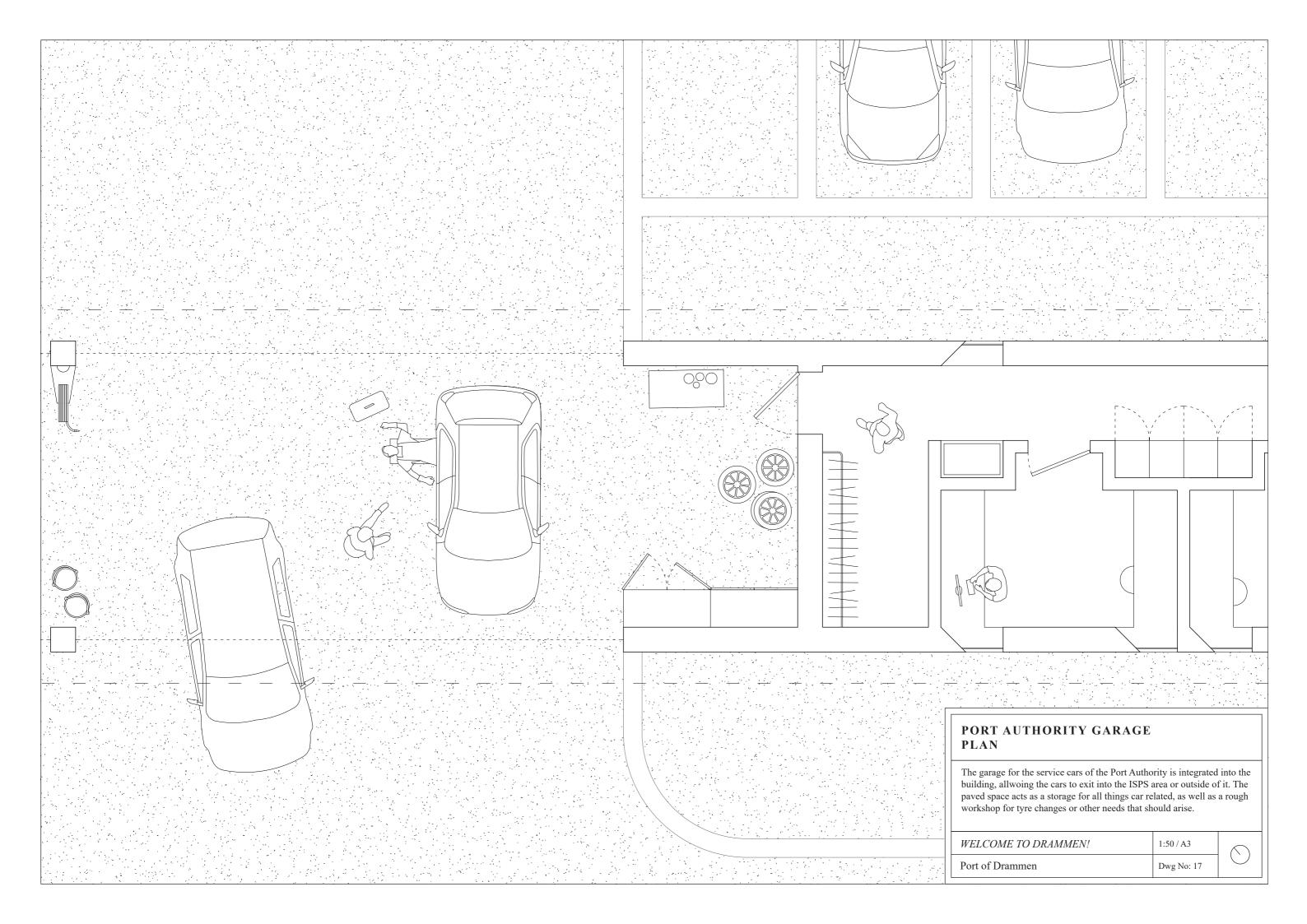
31-1

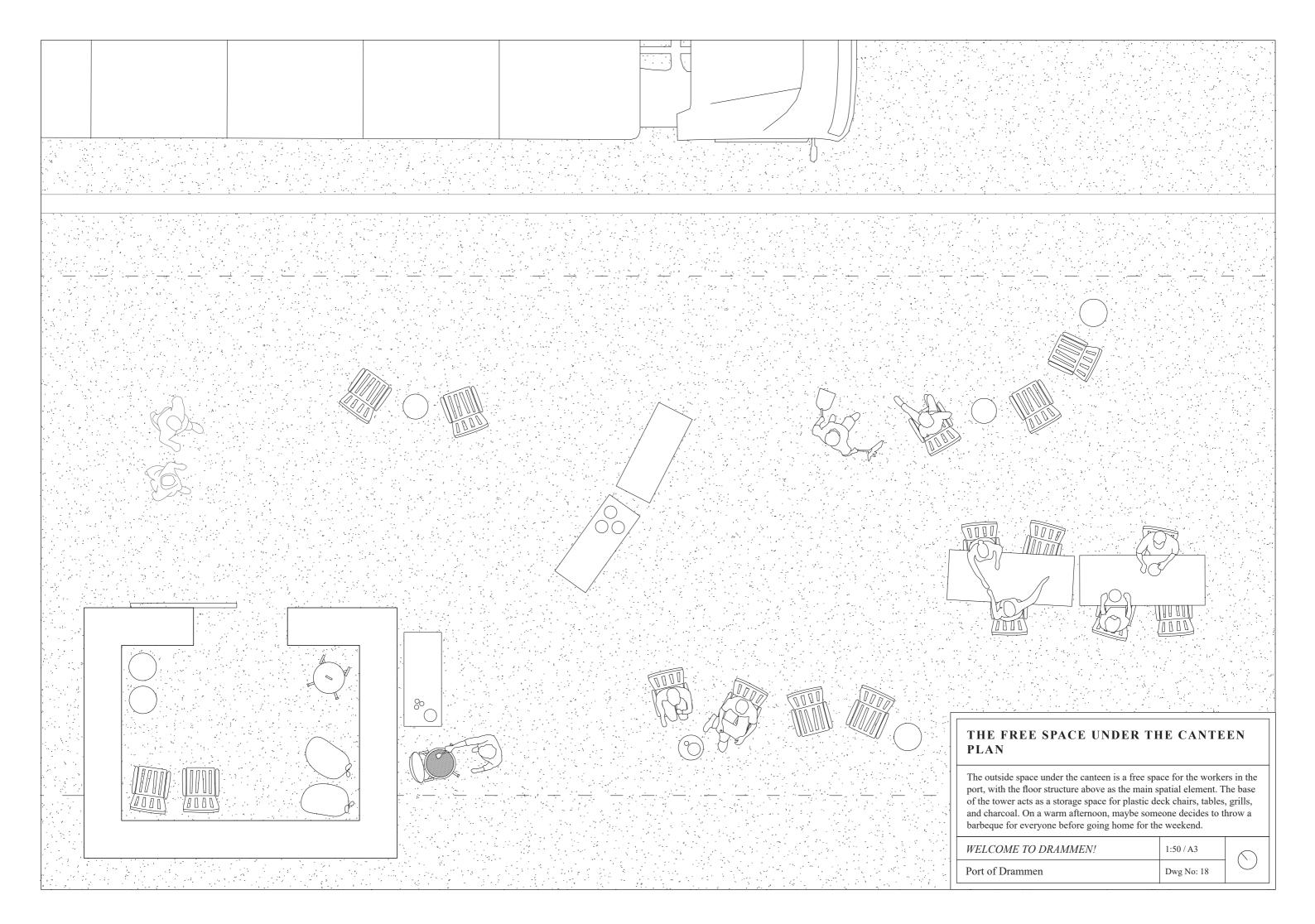
PORT AUTHORITY OFFICE SECTION

The office building, along with the guard house, is the physical manifestation of the ISPS border in the project. It corresponds in height to the trucks which are parked right behind it and hides them, underlining its contribution to maintaining a certain secrecy regarding what goes on inside to those on the outside.

COME TO DRAMMEN!	1:50 / A3	
of Drammen	Dwg No: 15	





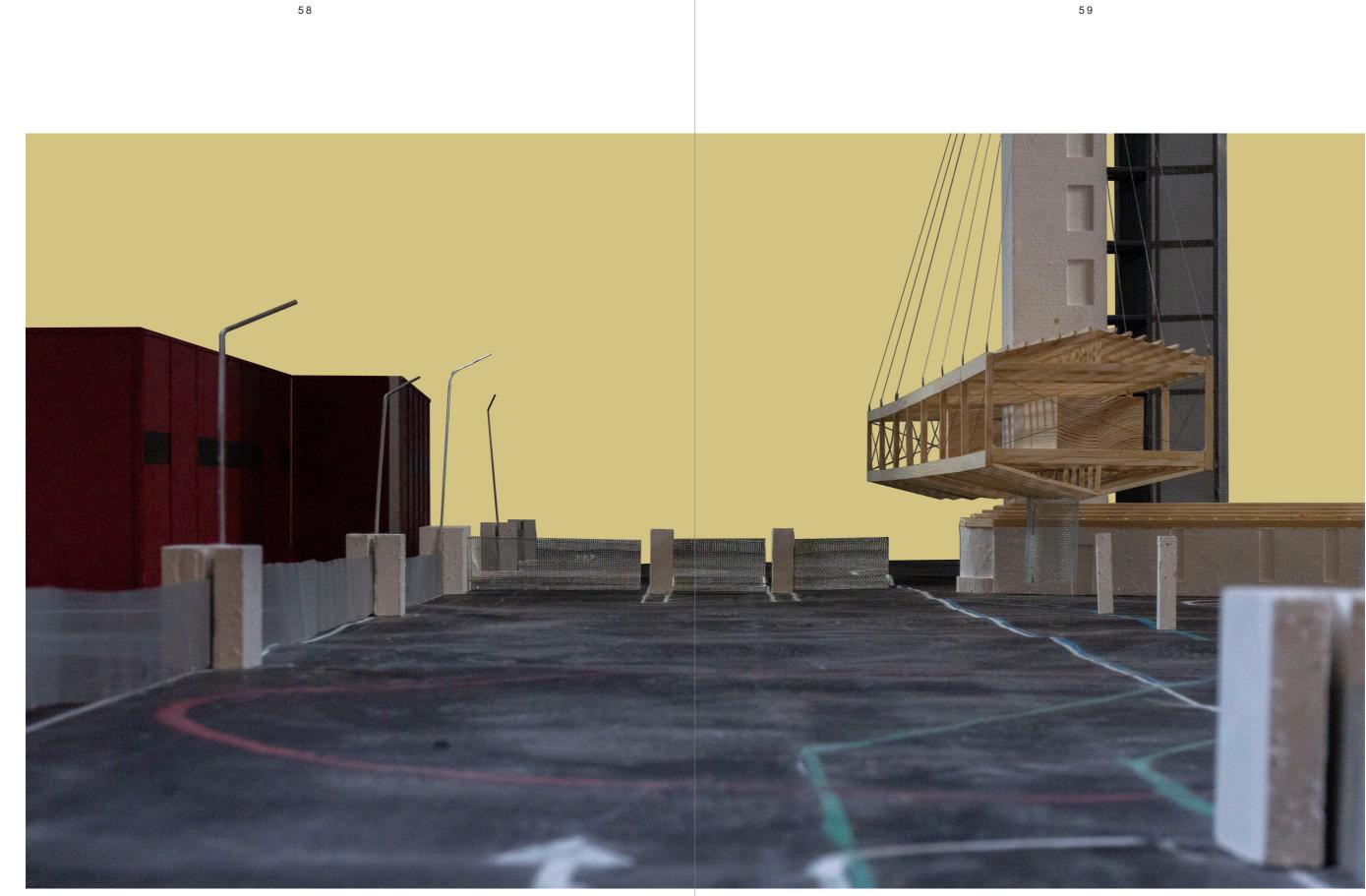


CHAPTER III

SELECETED MODEL PHOTOS, COLLAGES, AND OIL PASTEL DRAWINGS



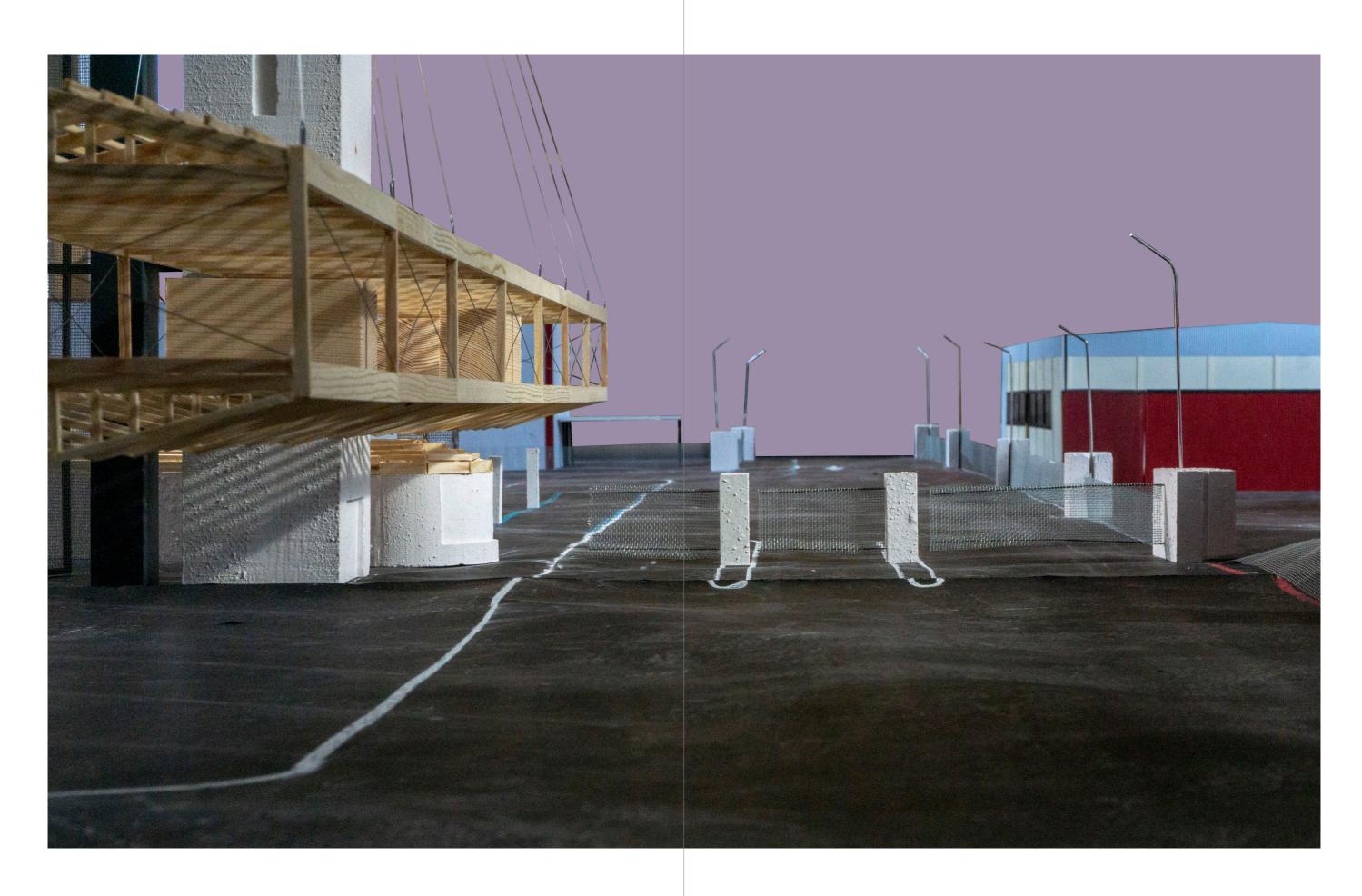
Behind the office and guard house lies the parking for truck drivers who have booked a room in the tower. Model 1:50.



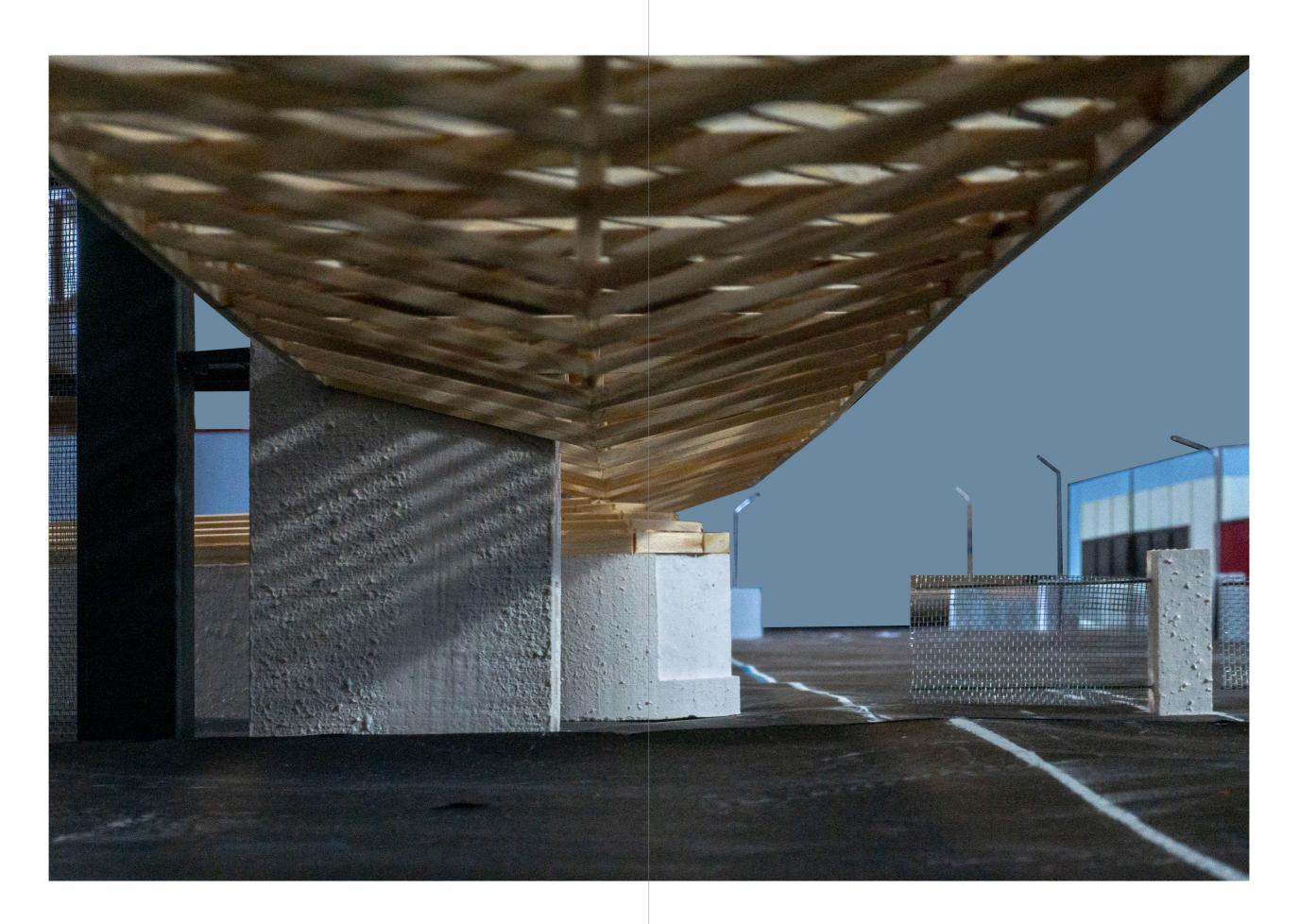
The canteen follows the axis of the access road which ends in the new gates to the ISPS area.



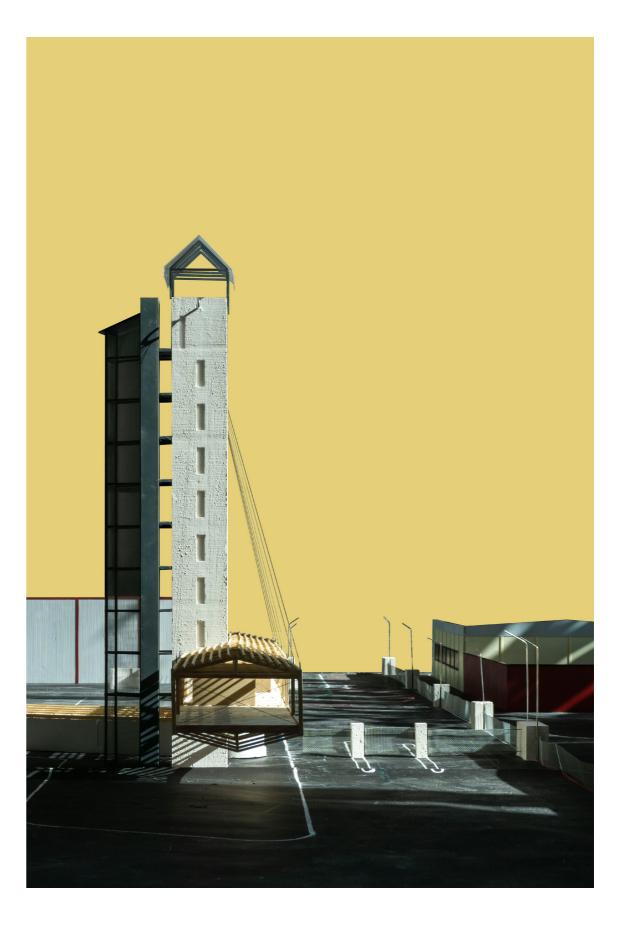
Outside the ISPS the canteen creates a covered entrance to the guard house, and a spiral staircase gives access to the canteen.



The concrete blocks of the fence have the same height as the concrete of the guard house and office, and double as lamp posts.



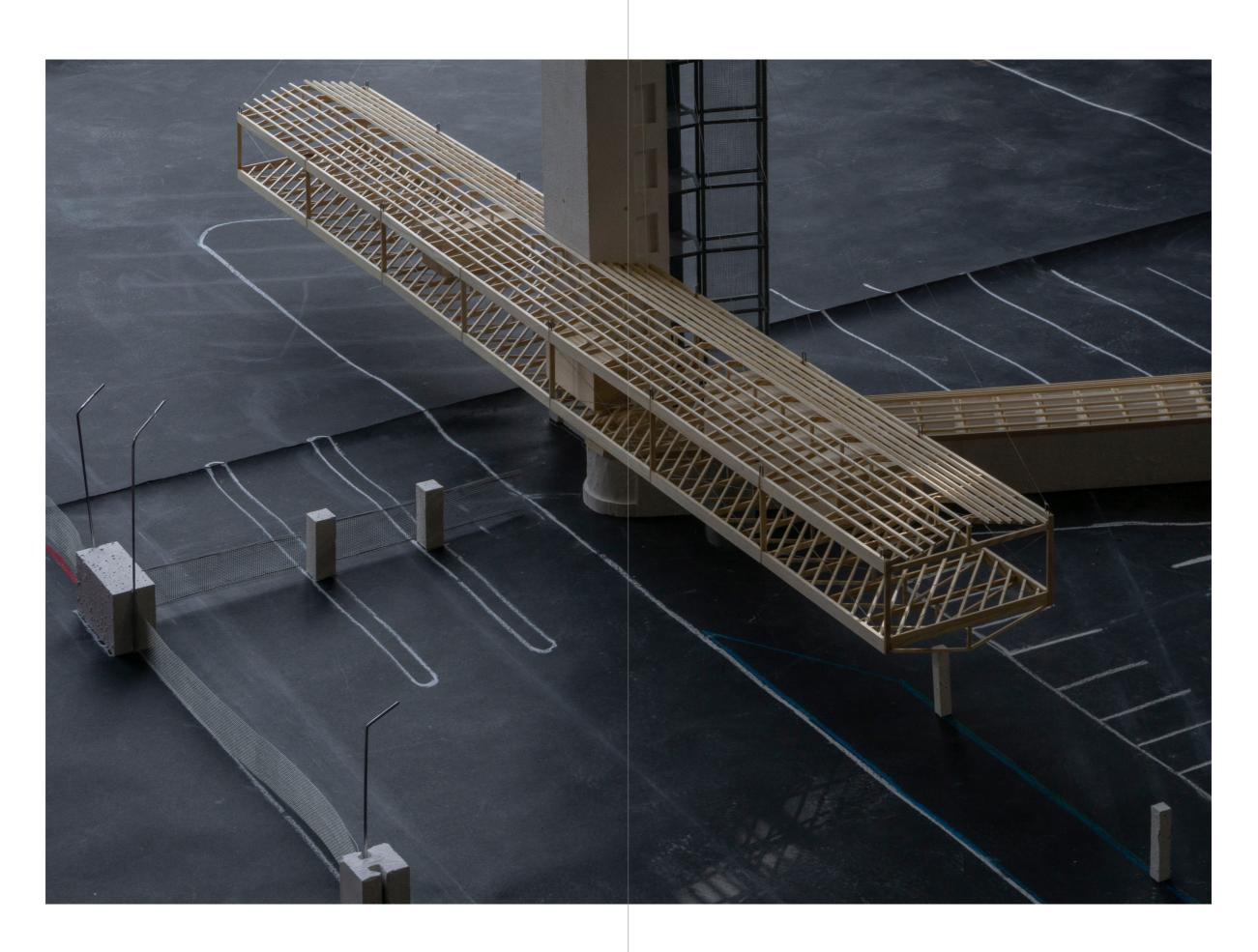
The free space underneath the canteen is a large, covered, unprogrammed area with good sun conditions.



The tower rises among its lower neighbours and communicates permanence and importance.



Two fuel pumps stand in a waiting pocket in front of the gates, as a replacement for the gas station which is disappearing when Holmen is expanded.









76

And the

A STATEMENT

YET WAR

NUMBER OF

. Art

1



and the second s



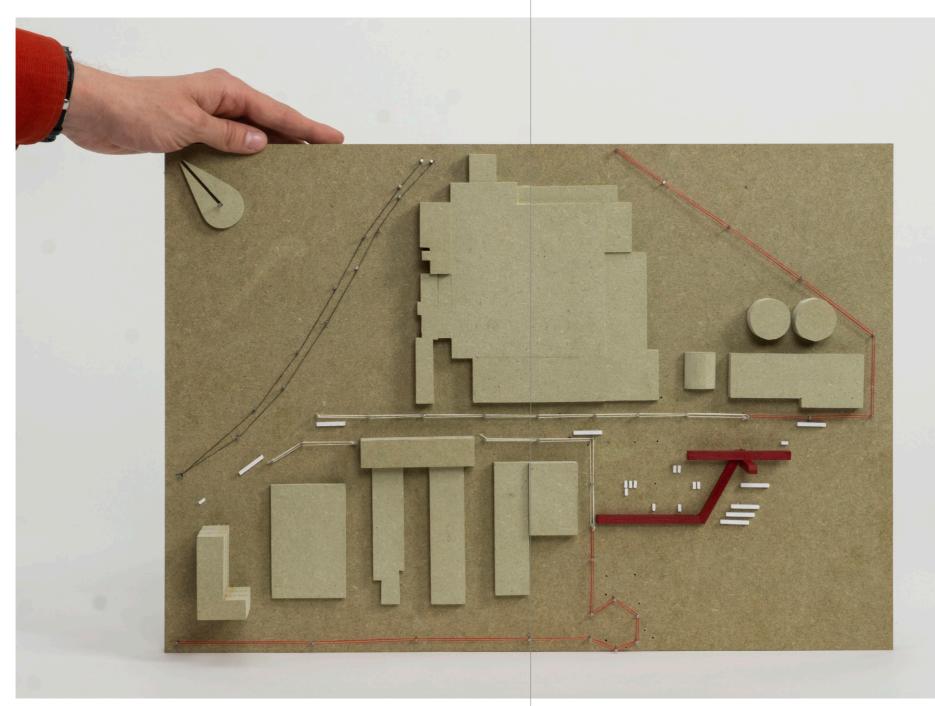
The fence posts, gates, and fuel pumps - all variations over the same theme, and related to the office and guard house. Model 1:50.





The canteen is a suspended structure, and the staircase which never touches the ground highlights its floating nature. Model 1:50.









The axiality of the project is clearly visible in the situation model, 1:1000.













The concrete of the walls is used to create the furniture which is needed in the bedrooms.





The same principle is used in the office and guard house, which are both organised by a long, narrow corridor on one side of the building.

ACKNOWLEDGEMENTS

Thank you to

my supervisor Lone Sjøli for inspiring and helpful discussions throughout the semester,

Dagur Eggertsson and Kristine Kragset, external critics at the midterm reviews,

the workshop staff at AHO for brainstorming sessions and invaluable help with model making,

the school engineer Audun Fossum for help with constructive questions,

Ivar Vannebo at the Port of Drammen for meeting with me, showing me around inside the ISPS, and giving me insights into the workings of the port,

friends and family.

LITERATURE + REFERENCES

Sellæg, Jo. Drammen havn skapte byen. Drammen: Z-forlag, 2021.

Store norske leksikon, "Drammen havn", https://snl.no/Drammen_havn, 05.11.2022.

99

Vannebo, Ivar. Assistant Port Director, Port of Drammen. Meetings 04.11.2022 and 09.02.2023.

Quartermaine, Peter. Port Architecture. London: Academy Editions, 1999.

ILLUSTRATIONS

Satellite image on page 15 is collected from https://satellites.pro, 09.02.2023.

All other images, illustrations, and drawings are by the author.