

MAASHAVEN BRIDGE

ROKAS STASIULIS
30/06/2021 - P 5.0

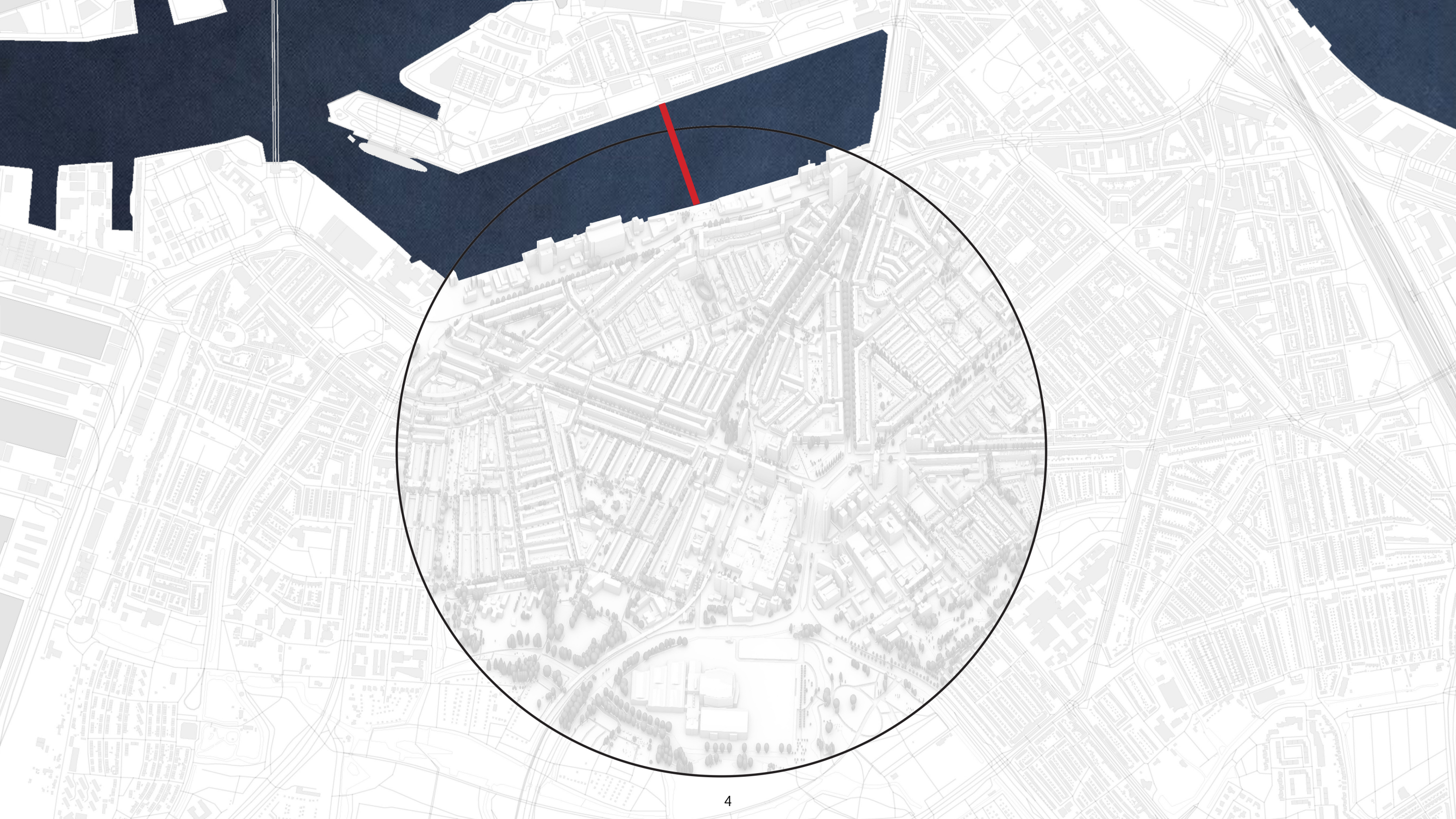


Location in Rotterdam



An aerial photograph of a coastal urban area, likely Maashaven, is shown in a light gray tone. A dark blue, irregularly shaped banner is positioned diagonally across the upper left portion of the image. The word 'MAASHAVEN' is written in large, white, bold, sans-serif capital letters on this banner. A thin black circle is drawn over the map, centered on a residential area with many small buildings and some greenery, located below the banner.

MAASHAVEN



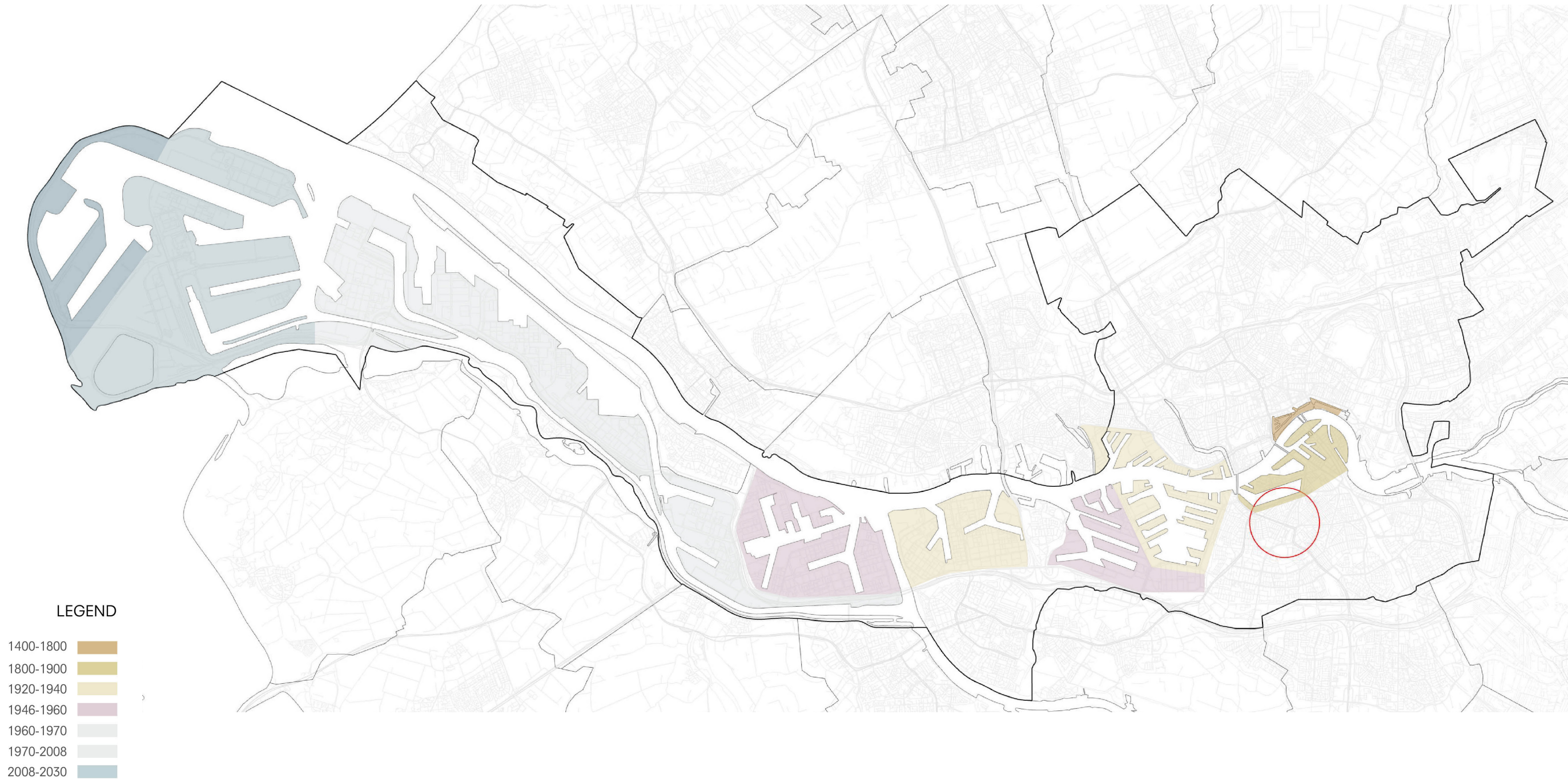
Maashaven 1958



Maashaven now



Port leaves the city



Mental map of Rotterdam



small: Rotterdam map

big: Rotterdam mental map for the inhabitants of the north

Icons of Rotterdam



Hafencity Hamburg

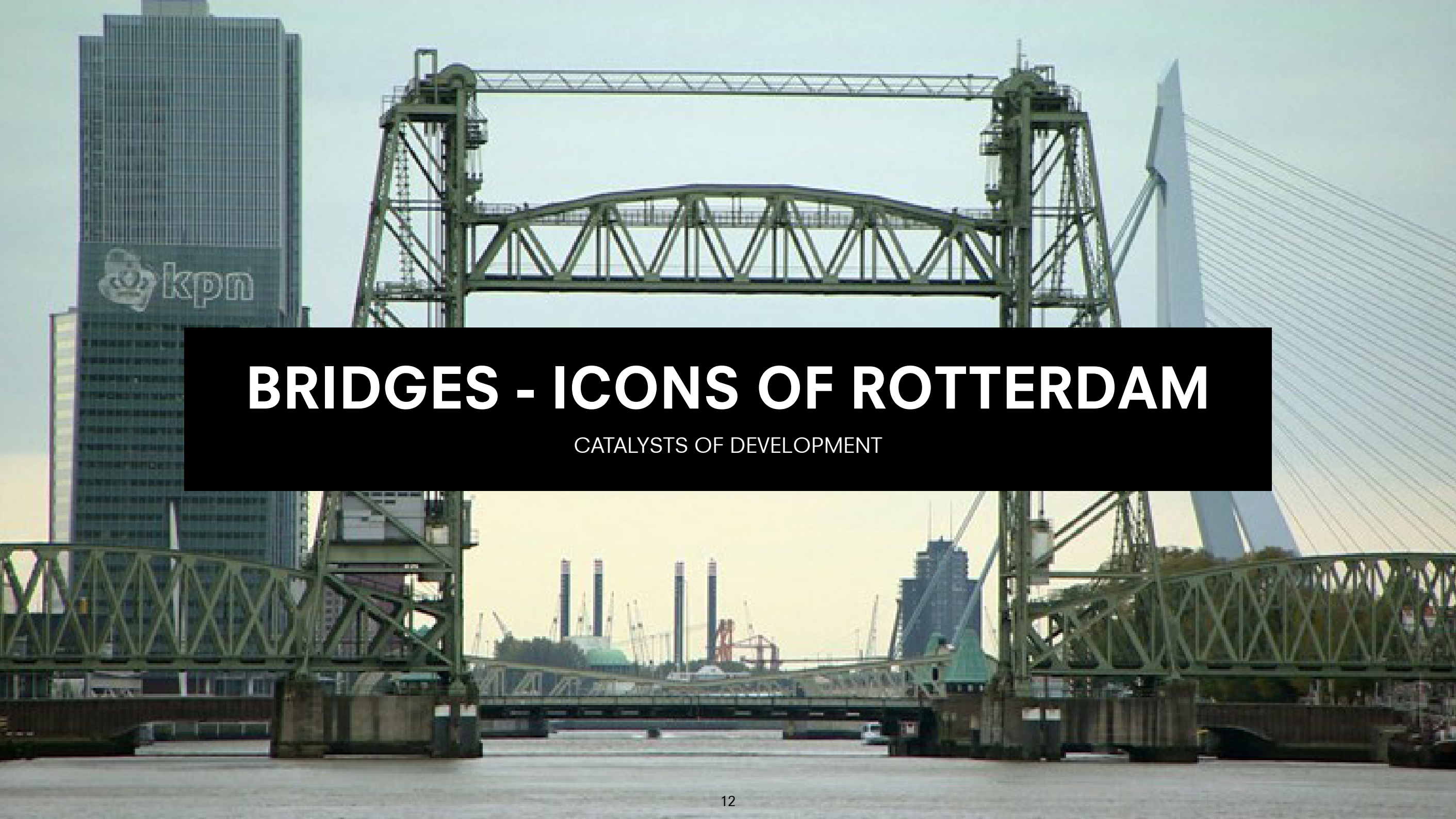


HOW CAN AN ICONIC PROJECT IMPROVE & CHANGE THE PERCEPTION OF ITS SURROUNDINGS?

MIGRATION OF: ICONICITY

HOW TO PLACE ROTTERDAM SOUTH ON THE MENTAL MAP OF THE CITY?

WHY ENCOURAGE FLAGSHIP (ICONIC) DEVELOPMENT NEXT TO LOWER/MIDDLE CLASS
AREAS?



BRIDGES - ICONS OF ROTTERDAM

CATALYSTS OF DEVELOPMENT

Effects of iconic interventions
The case of Kop van Zuid and the Erasmus bridge



1990

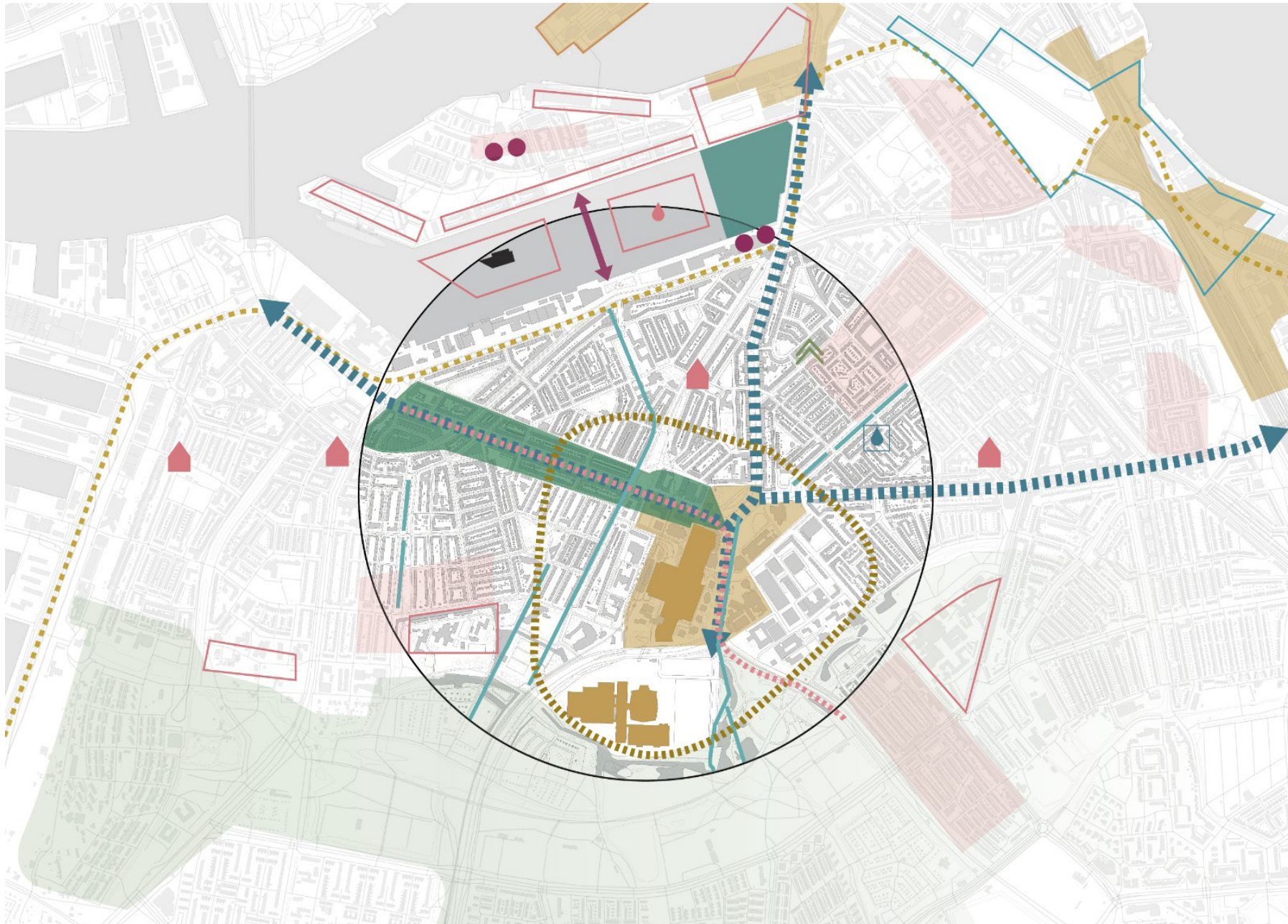


1996

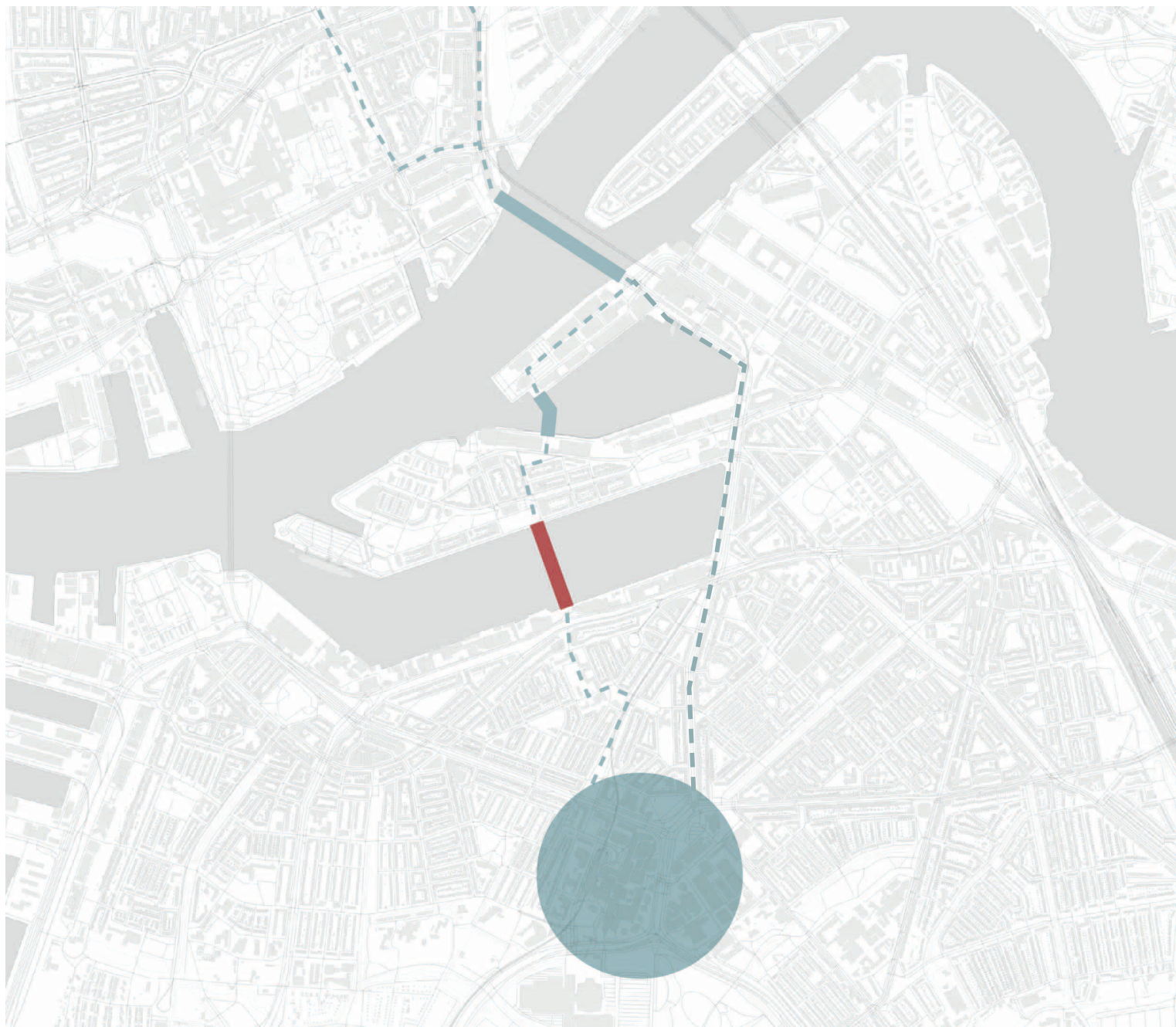


2020

Vision of the city



Rotterdam North - Hart van Zuid



Urban ambitions

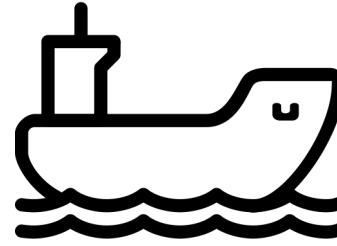


LINK

Linking Wilhelminapier, Katendrecht with Tarwewijk, Hart van Zuid.

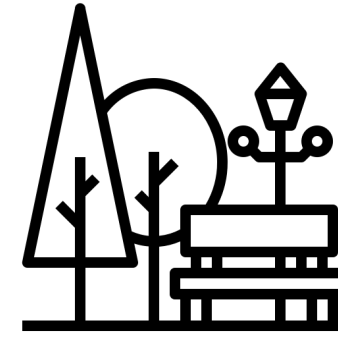
Fading the social discrepancies of Rotterdam South and Rotterdam North.

Creating a coherent city by eliminating the empty spaces dividing prosperous and neglected areas.



HARBOUR

Maintaining Maashaven as an inland vessel port. The goal is to create a structure that does not obstruct the harbour activities.



PUBLIC WATERFRONT

Programming the waterfront as the main public space of the area and reducing the lack of open public space in the area.

Unlock the potential of Maashaven as a urban public space.

Extending/activating Balkon aan de Maashavn.

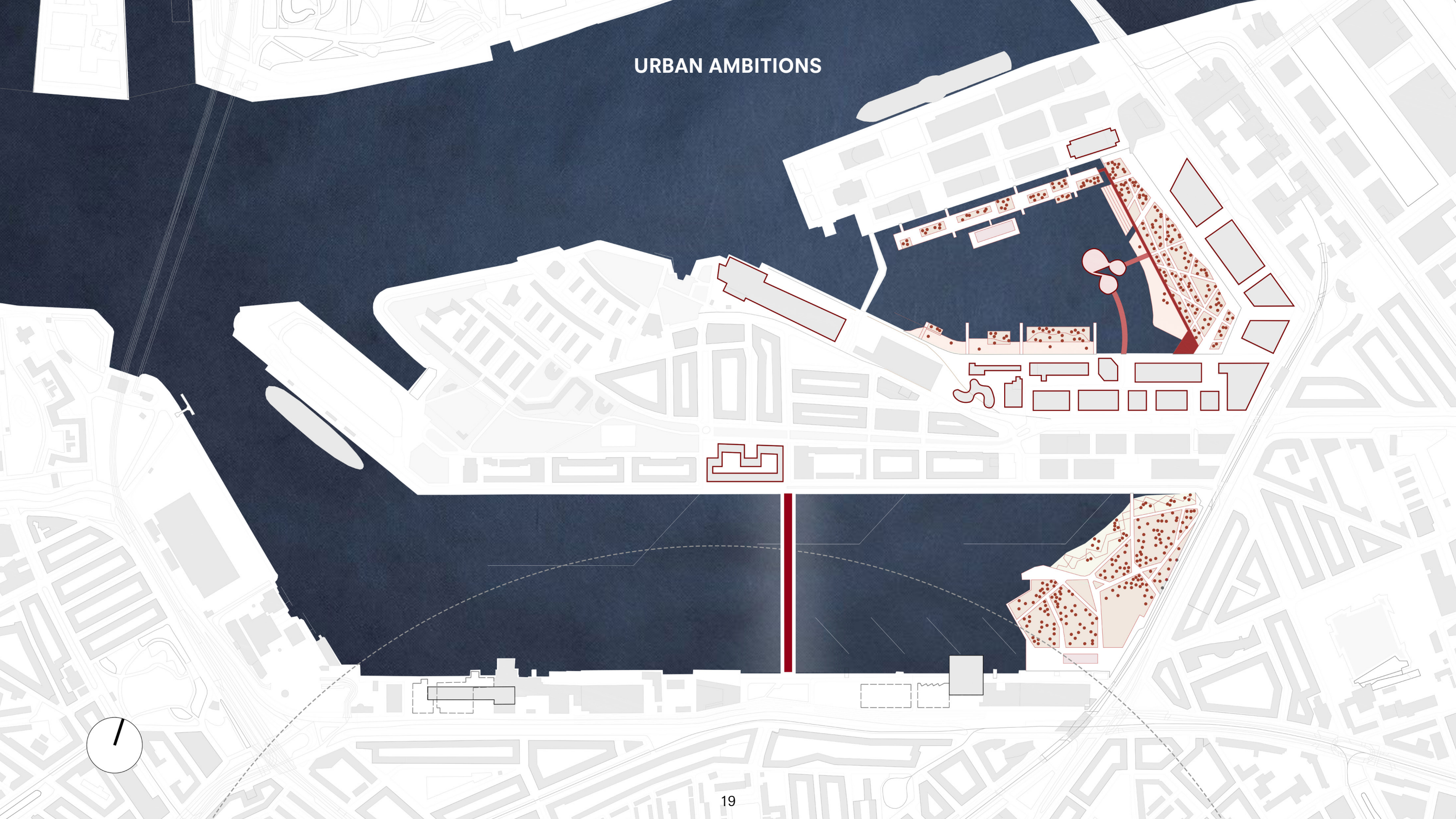
URBAN AMBITIONS



URBAN AMBITIONS



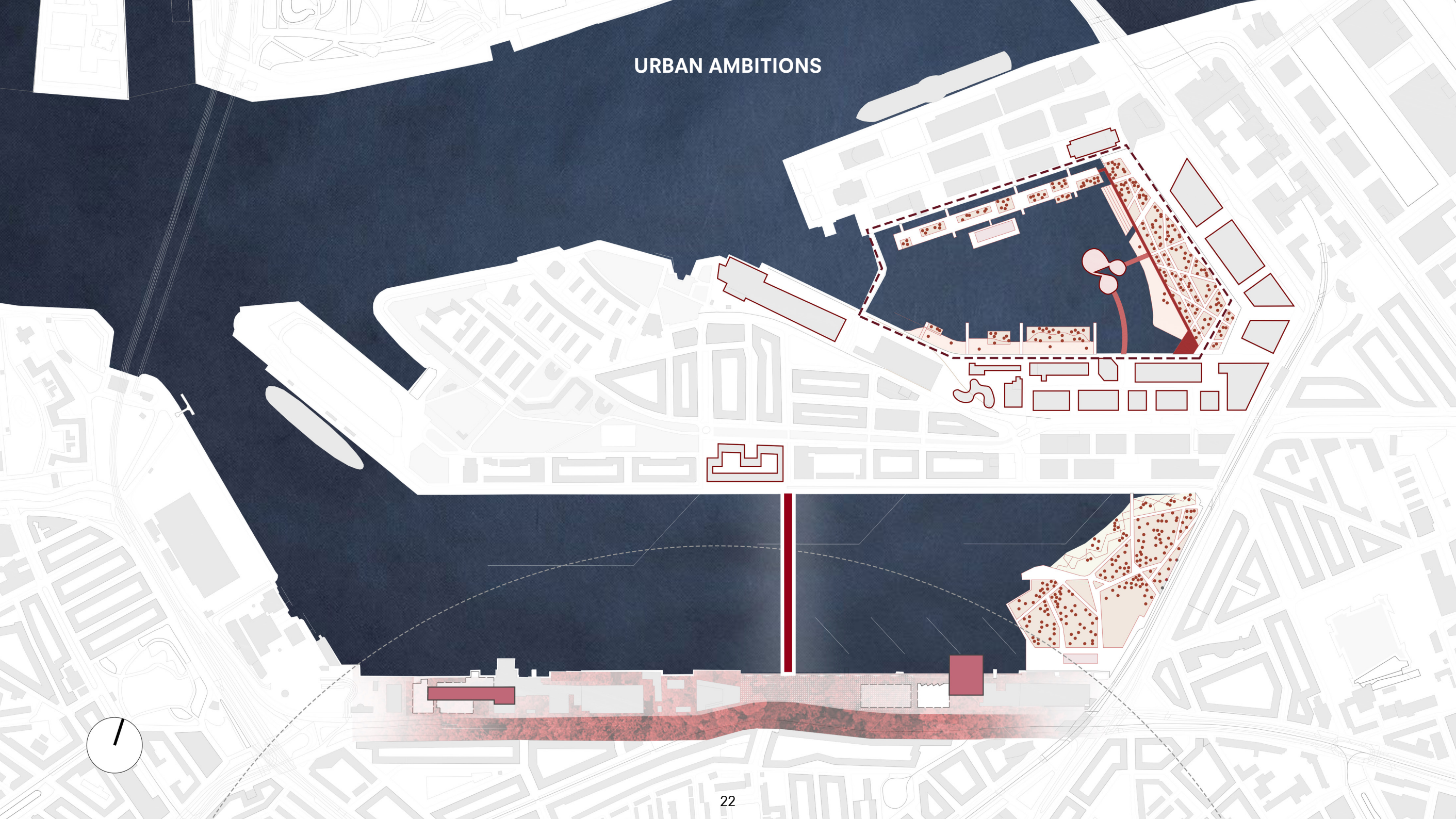
URBAN AMBITIONS



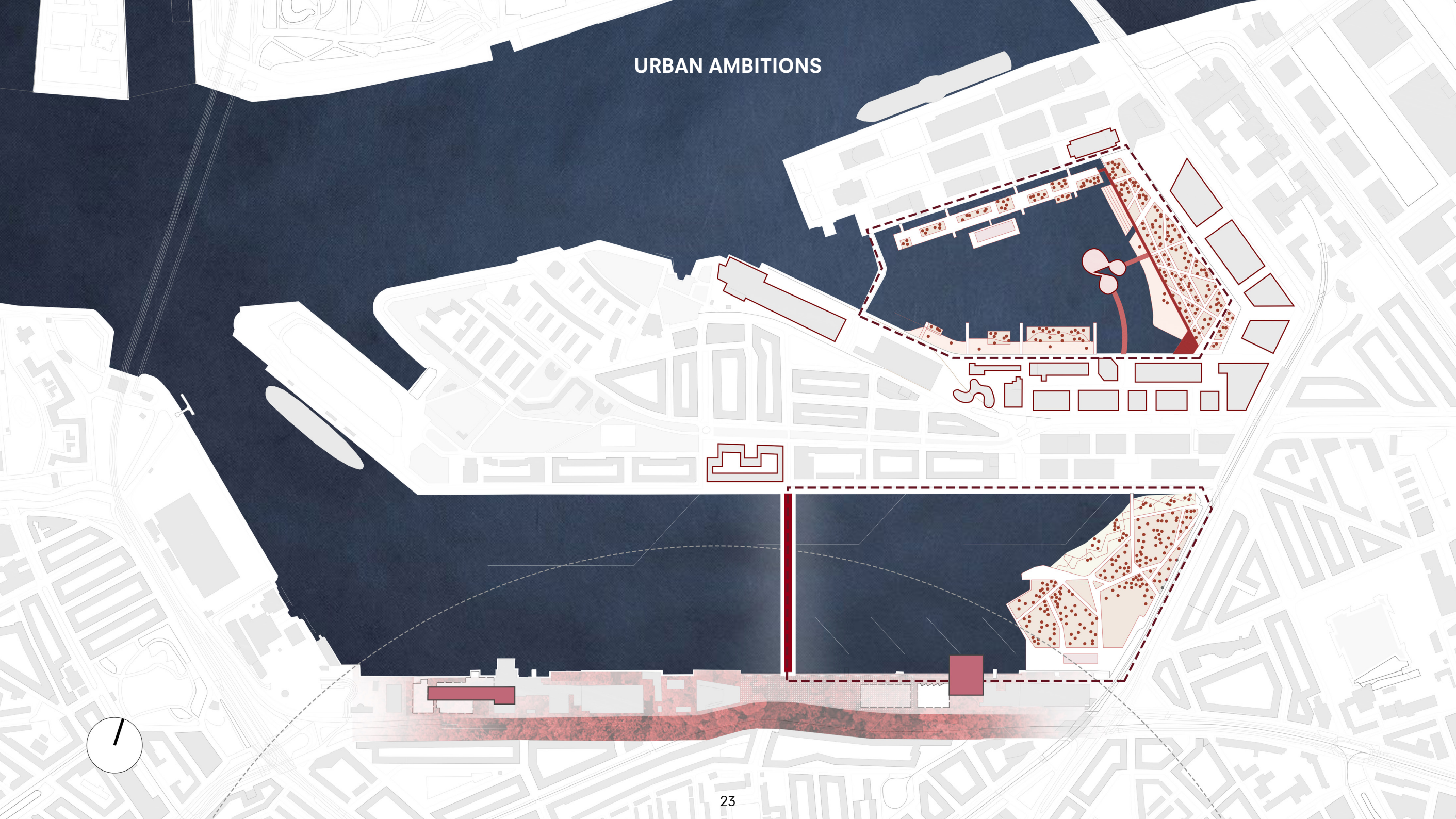
URBAN AMBITIONS

URBAN AMBITIONS

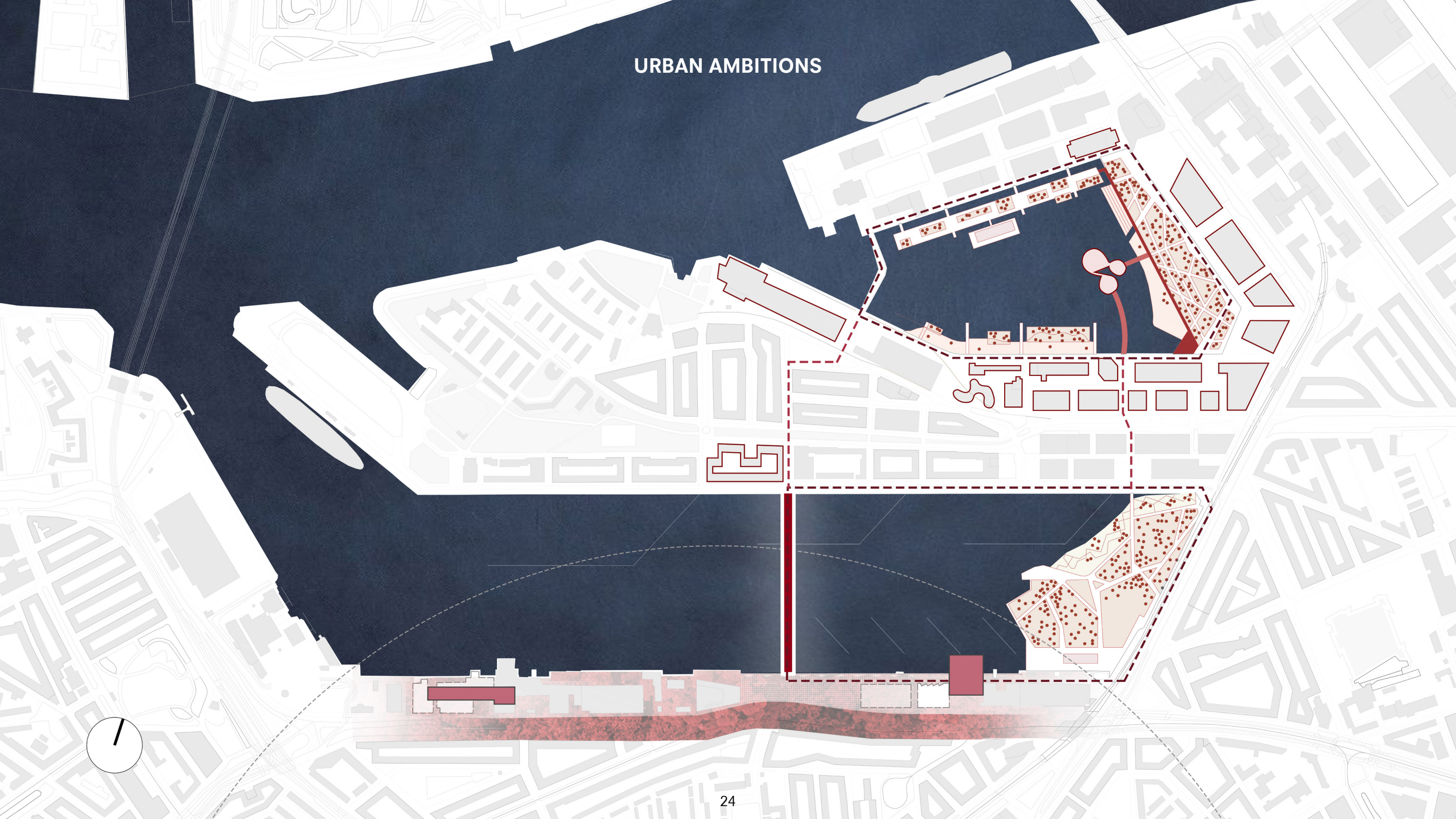
URBAN AMBITIONS



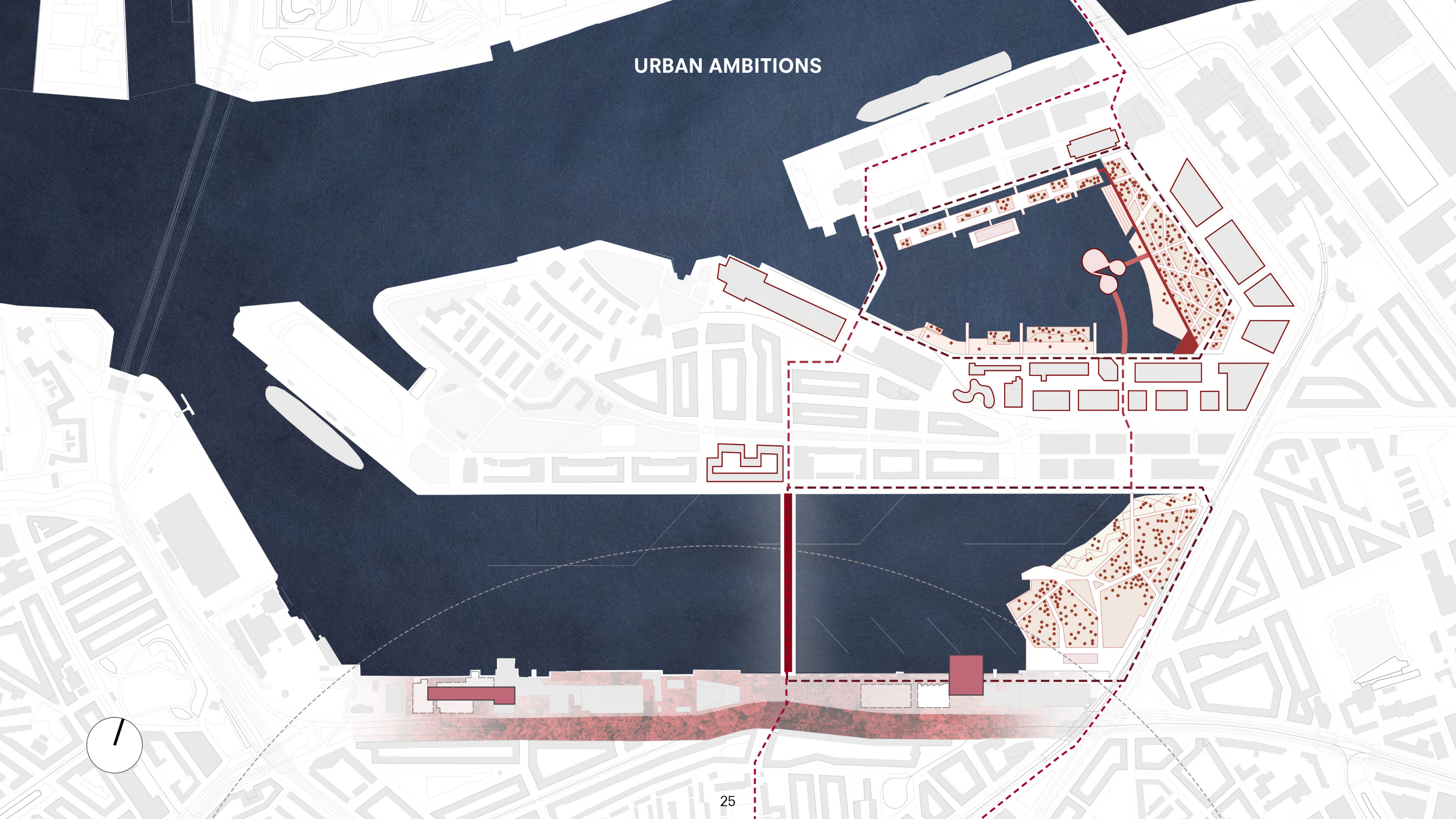
URBAN AMBITIONS



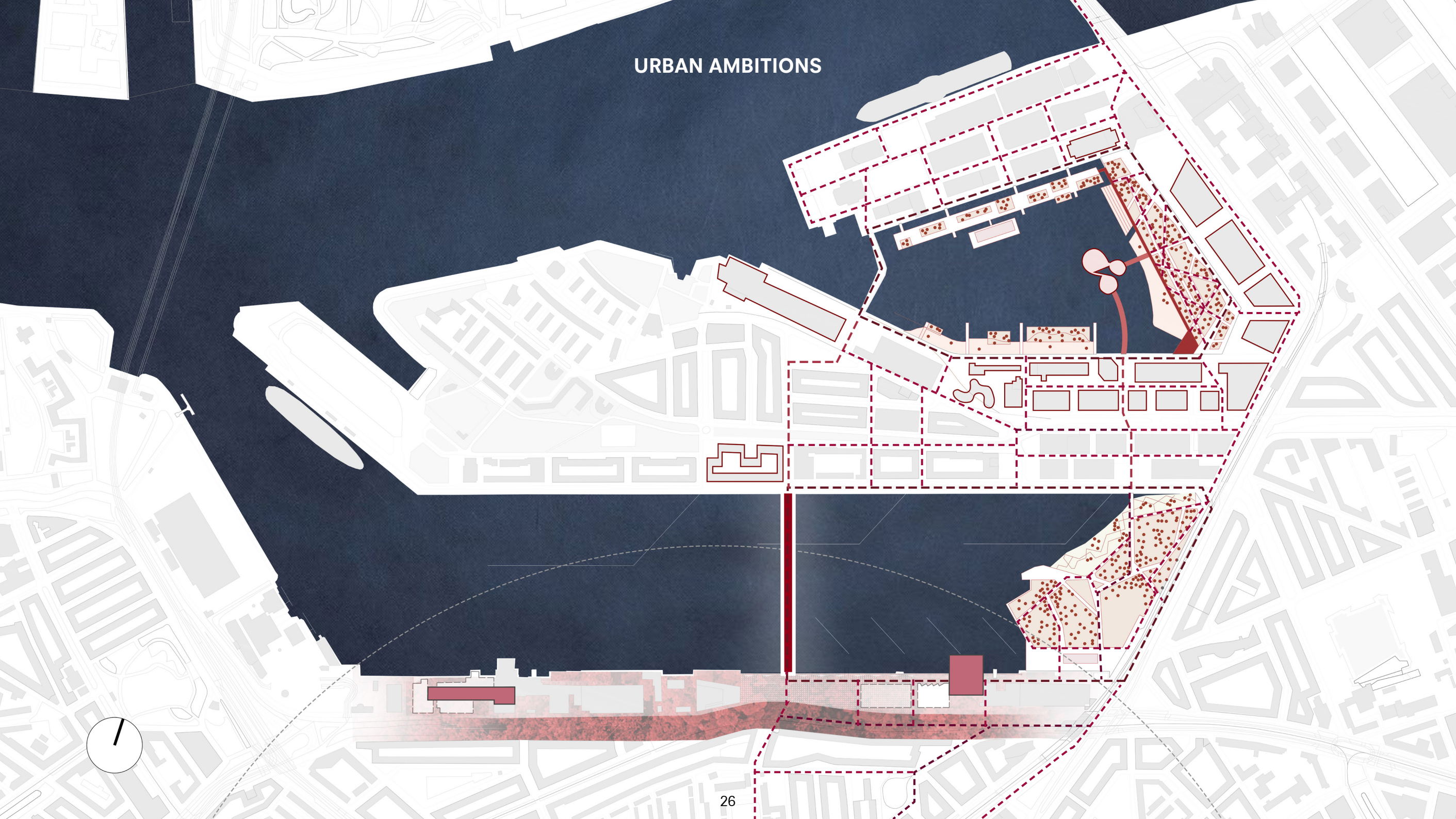
URBAN AMBITIONS



URBAN AMBITIONS



URBAN AMBITIONS



NEIGHBOURS

Haven Kwartier



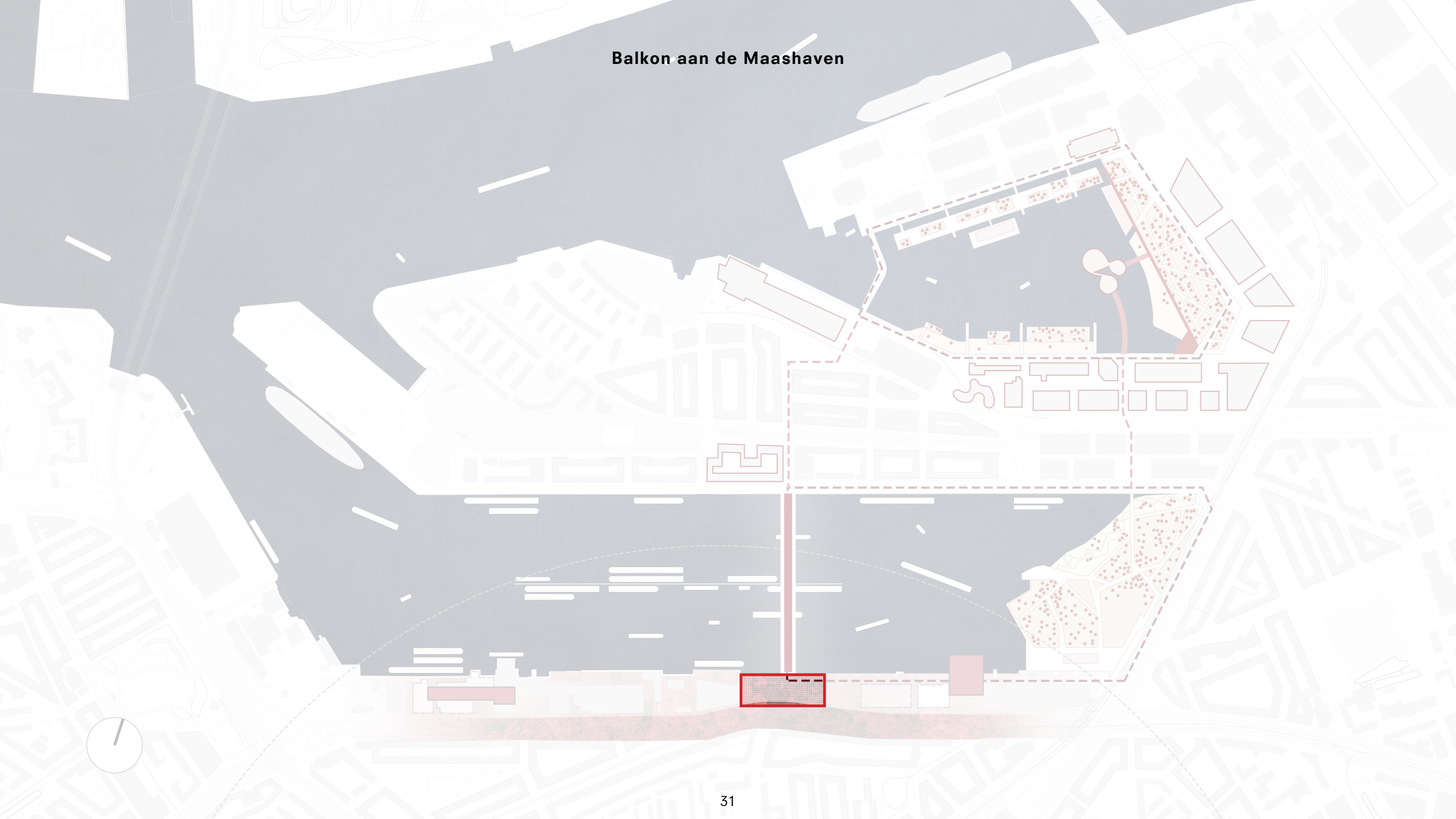
Haven Kwartier



Haven Kwartier



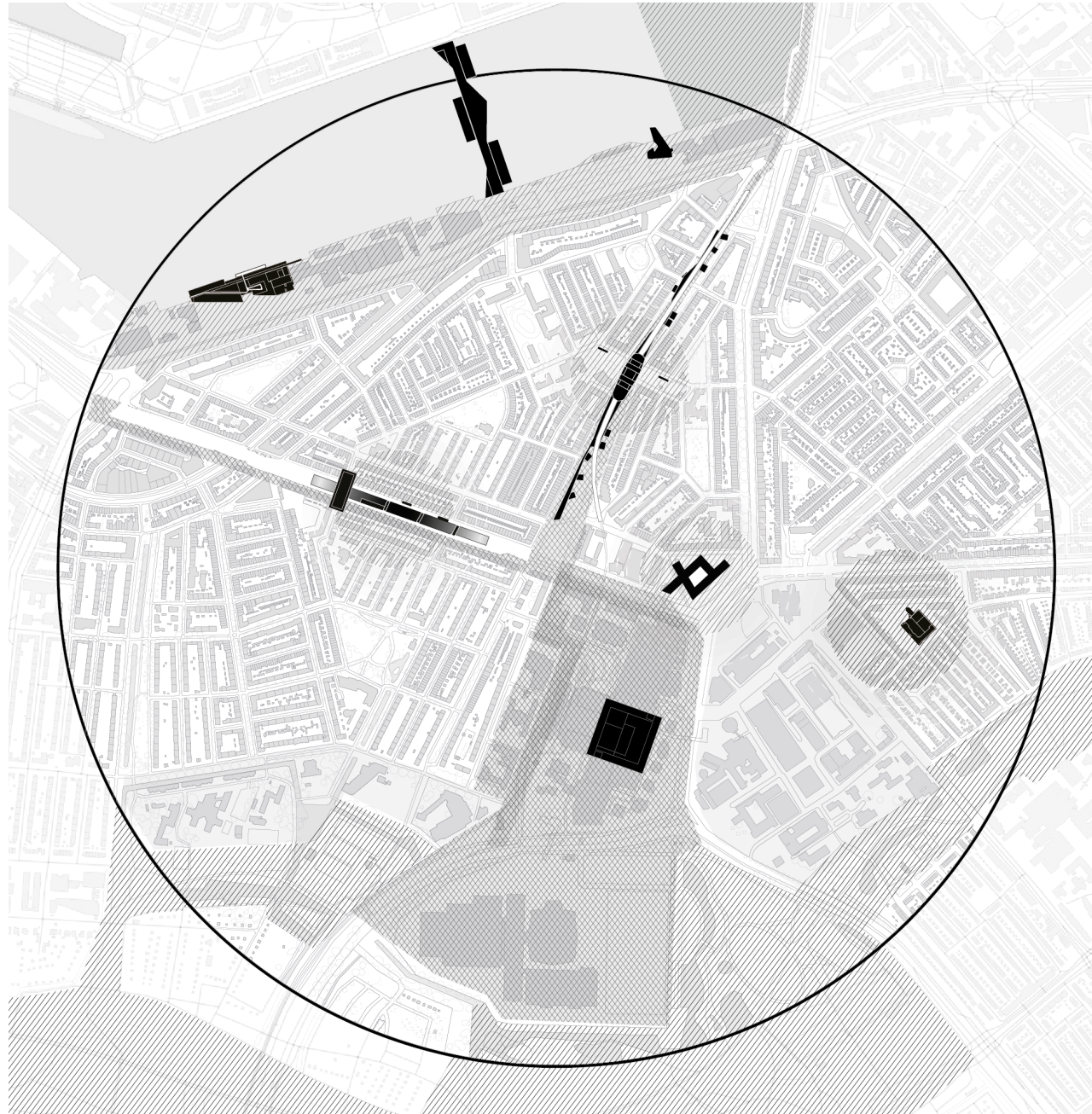
Balkon aan de Maashaven



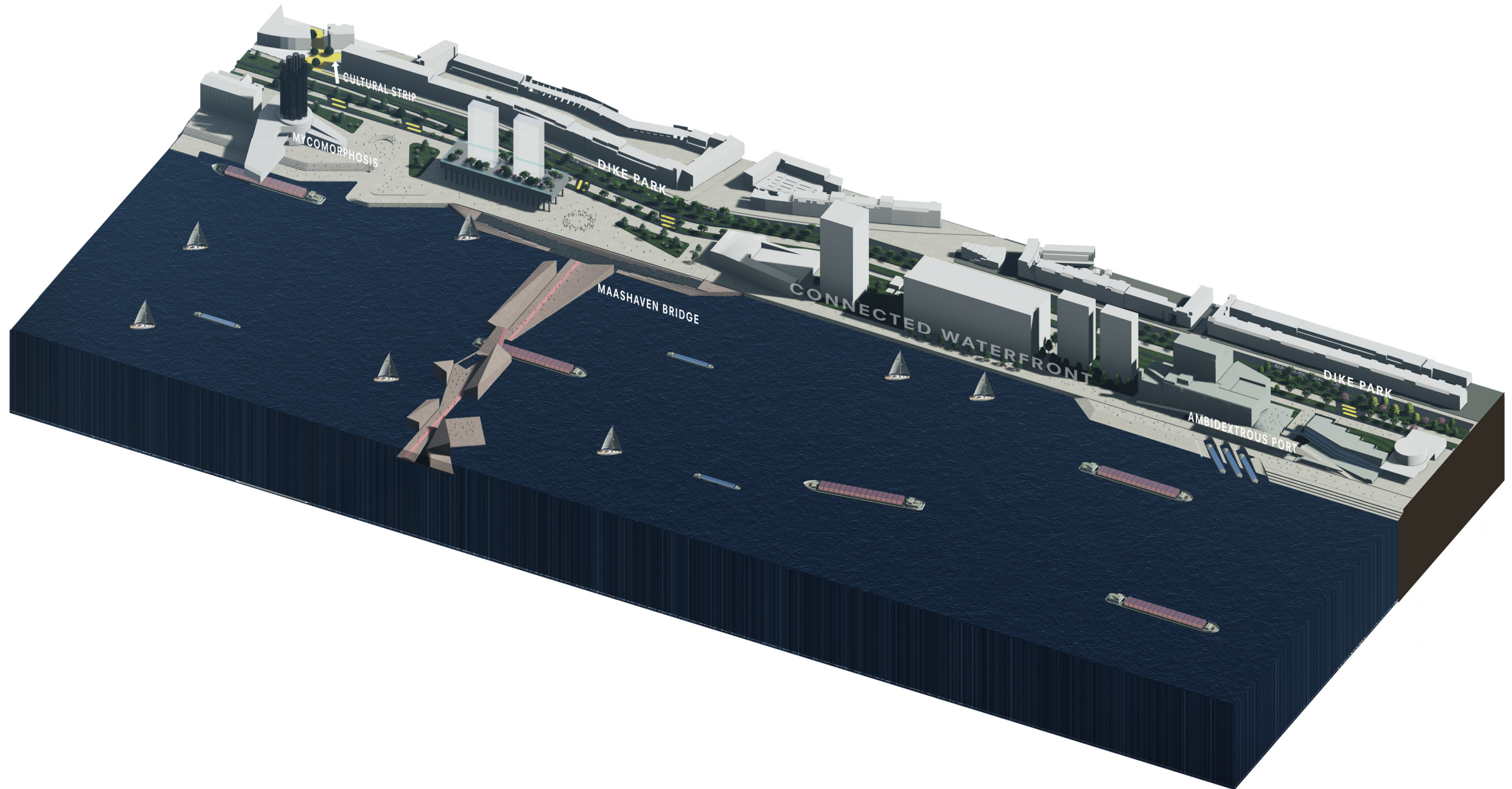
Balkon aan de Maashaven



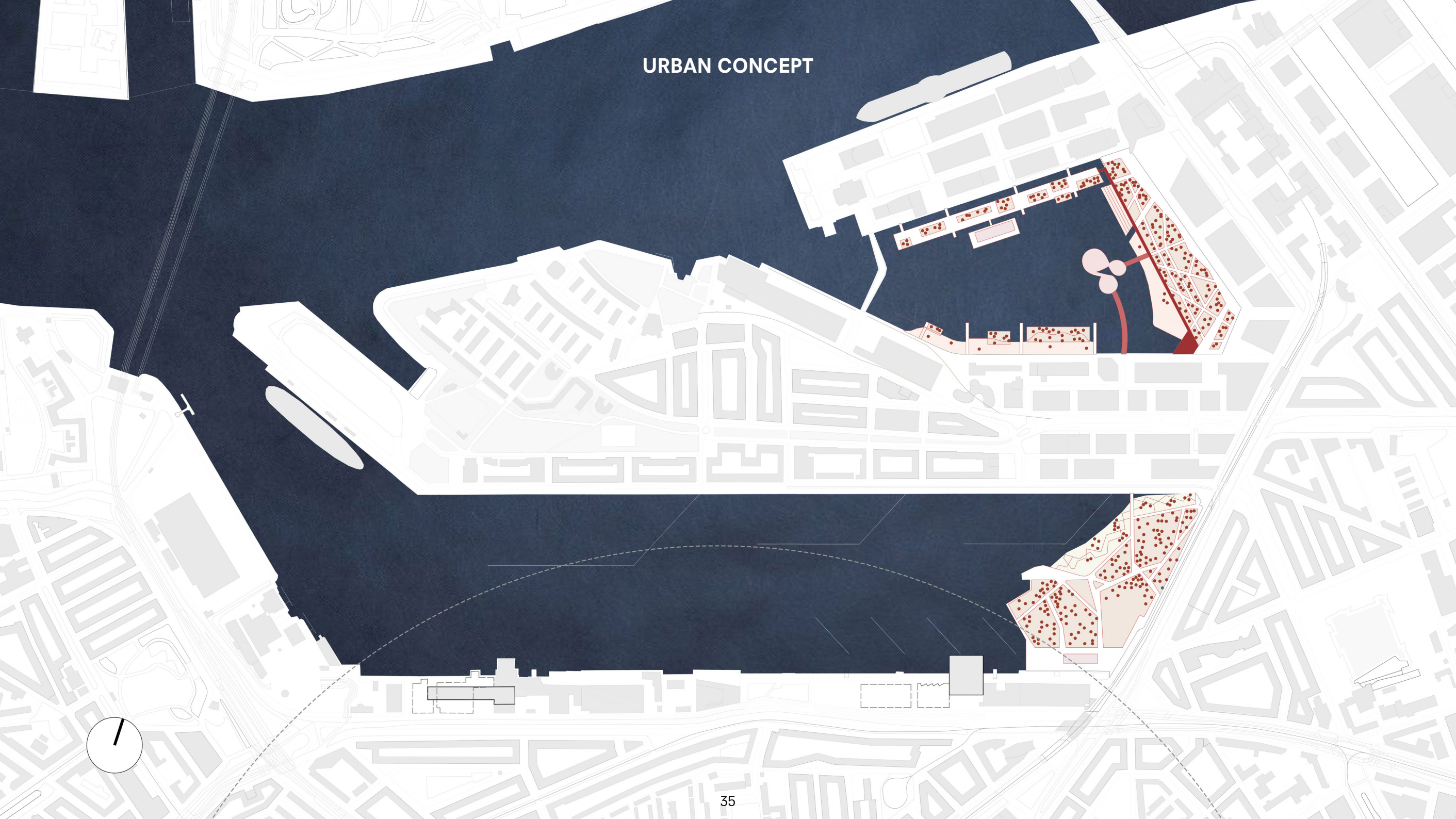
Location within the “Collage City” strategy



PRODUCTIVE WATERFRONT



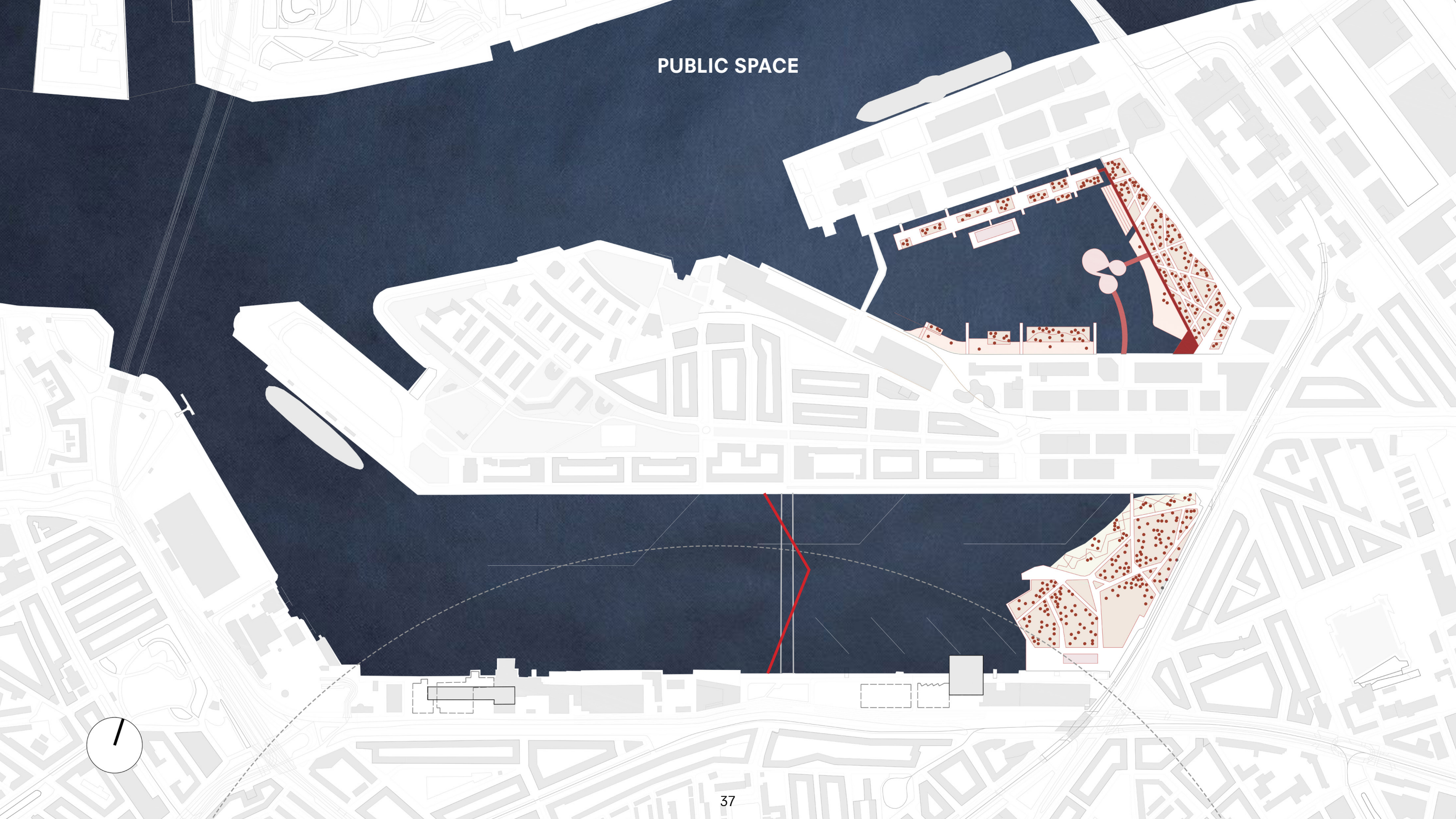
URBAN CONCEPT



SLOW TRAFFIC



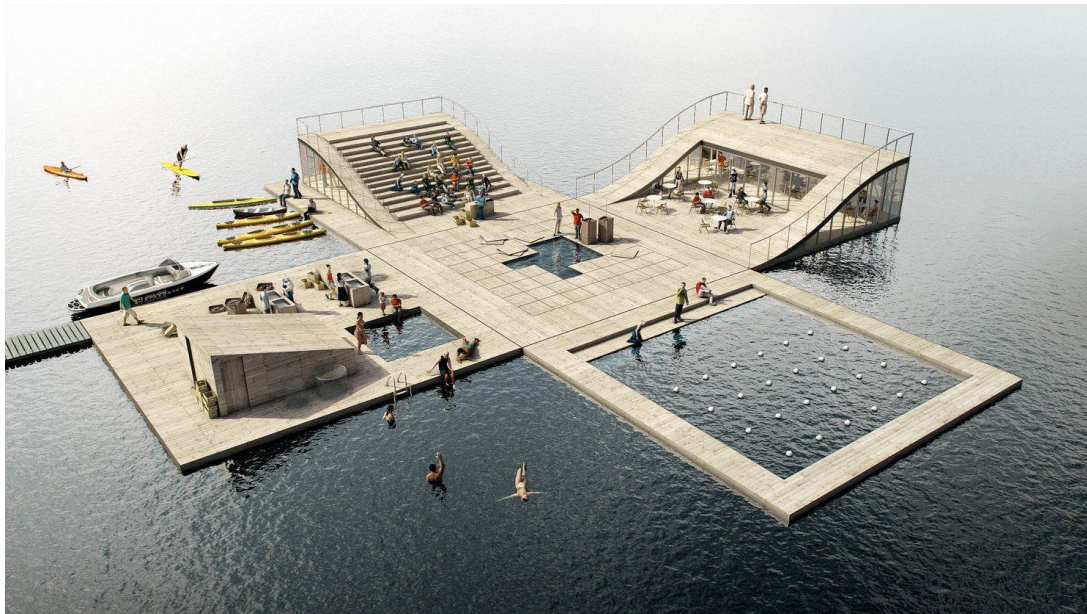
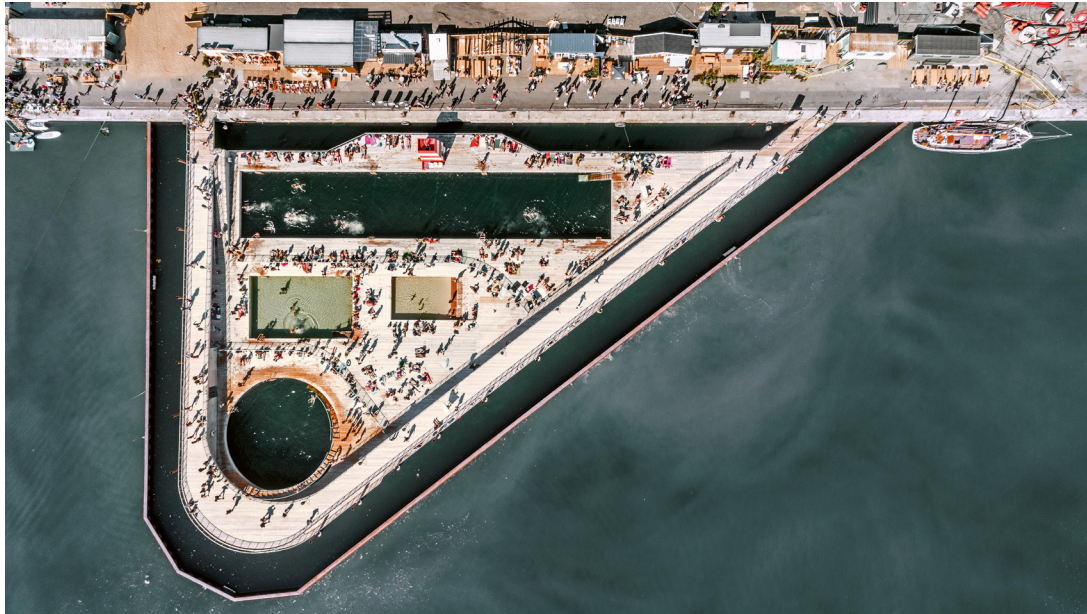
PUBLIC SPACE



PUBLIC SPACE

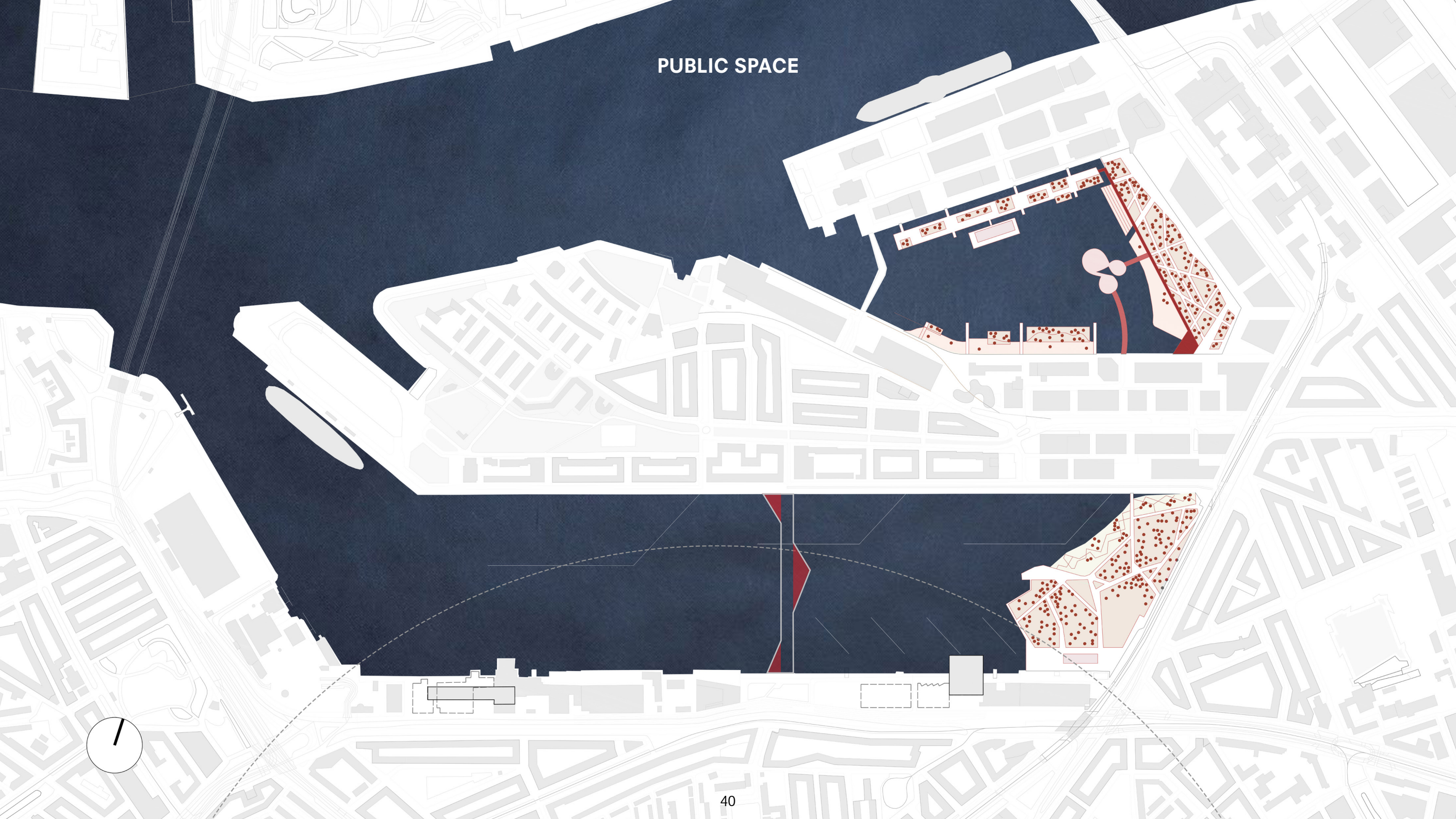
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REFERENCES



VINTERBAD BRYGGEN
SKITSEFORSLAG
2012-07-06

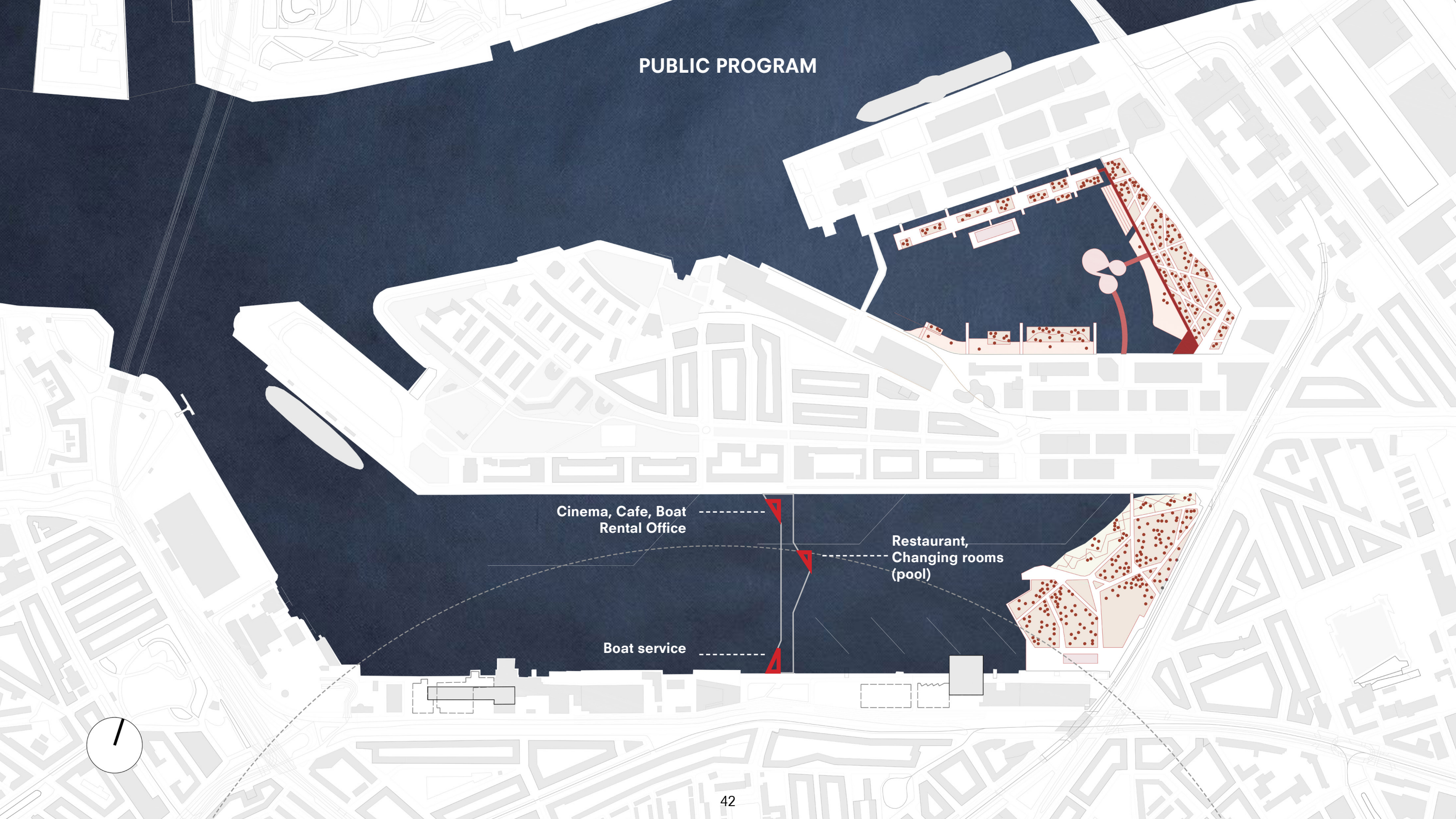
PUBLIC SPACE



PUBLIC PROGRAM



PUBLIC PROGRAM

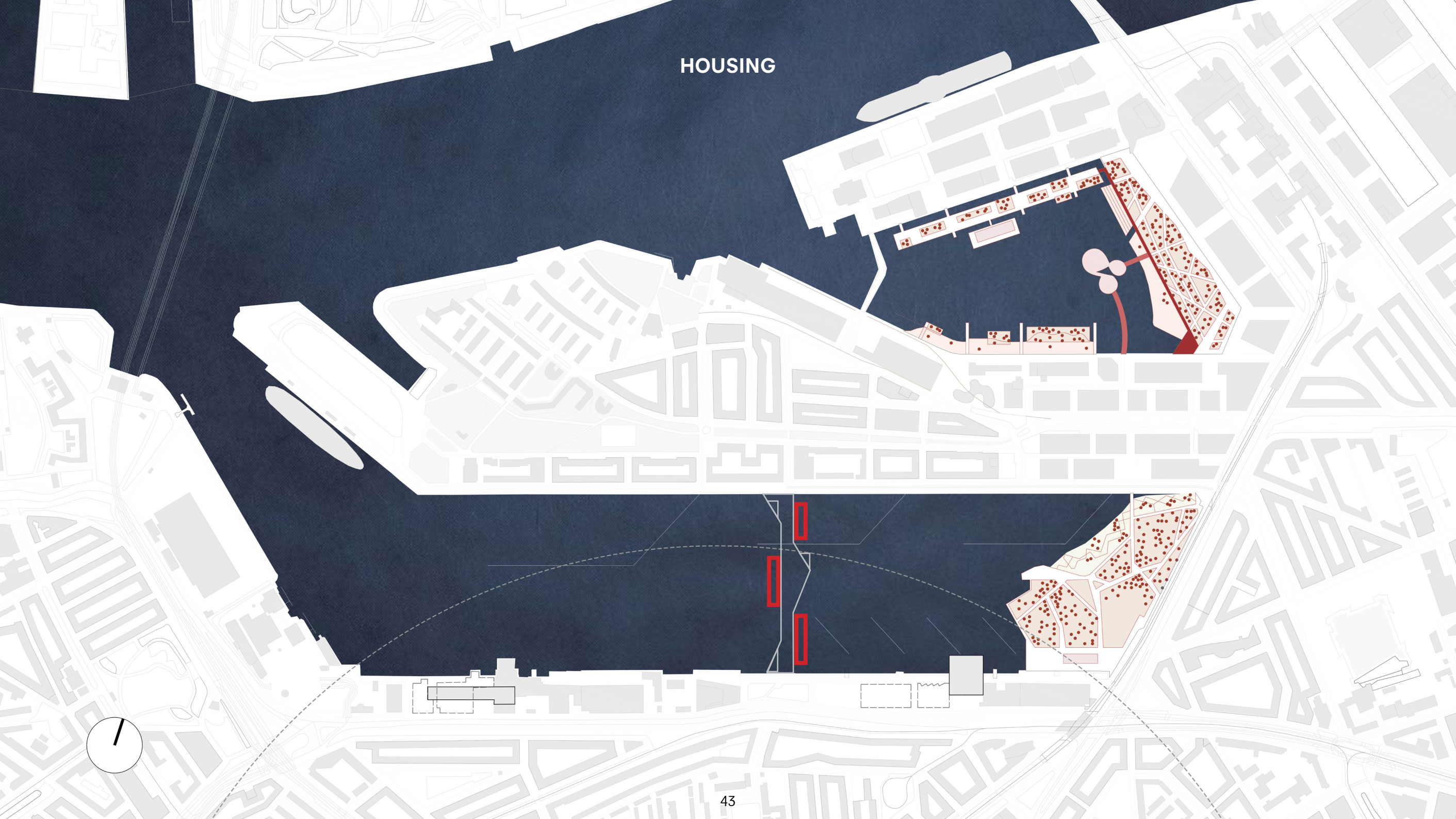


Cinema, Cafe, Boat
Rental Office

Restaurant,
Changing rooms
(pool)

Boat service

HOUSING



PROGRAM - P2.0

PEDESTRIAN PATH // WITH ACCESS TO DOCKS & HOUSING & PUBLIC WATERFRONT

BICYCLE PATH // 2 WAY // 2-3 M WIDE

INLAND VESSEL BERTHS & PUBLICLY ACCESSIBLE DECKS

RESIDENTIAL // 300 HOMES

CIRCULATION

85 %

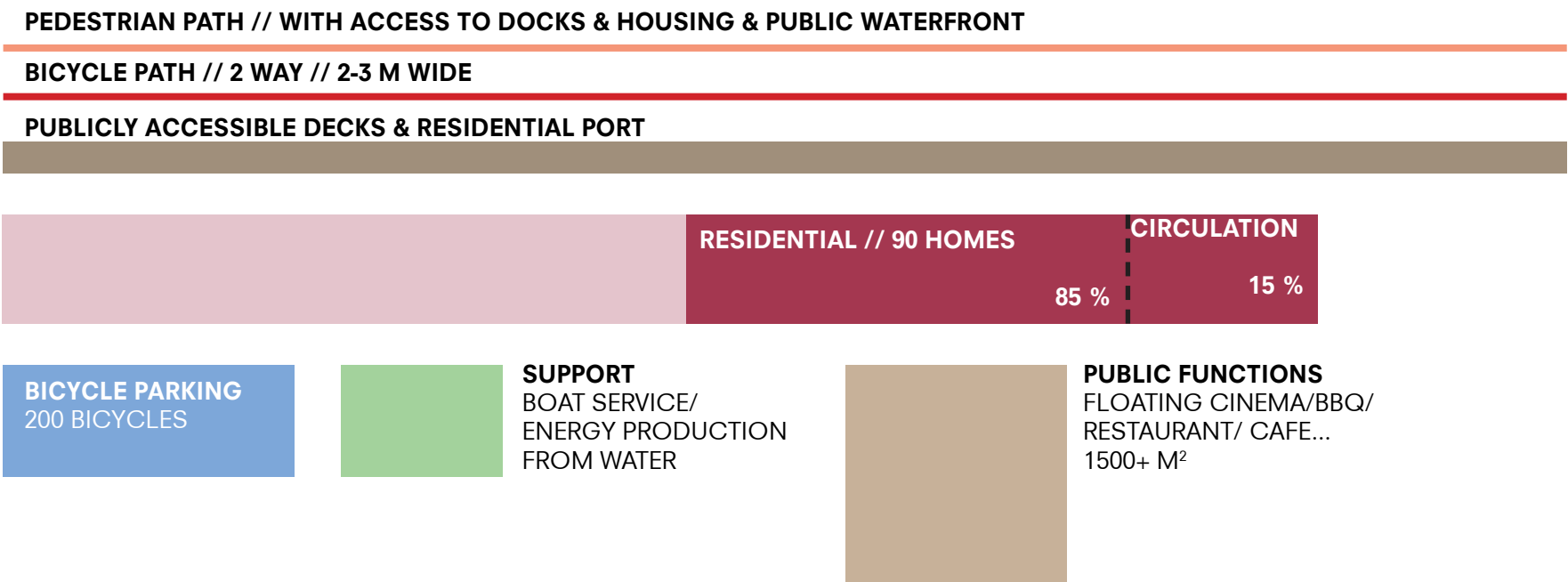
15 %

UNDERGROUND
PARKING
200 CARS +
400 BICYCLES

SUPPORT
BOAT SERVICE/
ENERGY PRODUCTION
FROM WATER

PUBLIC FUNCTIONS
FLOATING CINEMA/BBQ/
RESTAURANT/ CAFE...
400+ M²

PROGRAM - P4.0



Design ambitions



**PEDESTRIAN
TRAFFIC**

**BRIDGE AS A
JOURNEY**

An addition to the pedestrian network of Rotterdam South. Connecting Tarwewijk, Bloemhof, Charlois and Hart van Zuid with Katendrecht, Wilhelminapier and Rotterdam North.

**BICYCLE
TRAFFIC**

**SHORTCUT
TO THE 2ND
CENTER**

Comfortable bike connection with the city center (Wilhelminapier, Katendrecht, ...)

maximum slope	10%	(for short distances)
optimal	<6%	
optimal	2-3 %	(for long ascends)

**BUILDING
ON WATER**

**FLOATING
STRUCTURE**

Climate change-proof building able to adapt to rising water levels

expected water level rise: 35-85cm

HOUSING

**HARBOUR
APARTMENTS**

Waterside-focused residences with direct views and/or access to water.

RECREATION

**MAASHAVEN - NEW
RECREATIONAL SITE
OF ROTTERDAM**

Public spaces with complimenting functions enhance the journey through the bridge - cinema, public pool, cafes, terraces & a playground. Utilizing the factor of the “icon” to initiate the conversion of Maashaven into a multipurpose harbour.

DESIGN CONCEPT

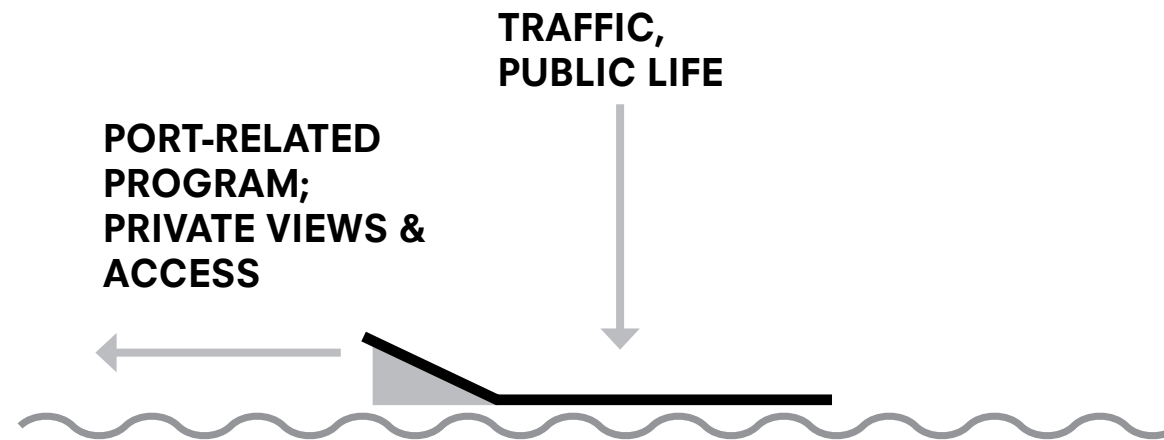
Platform



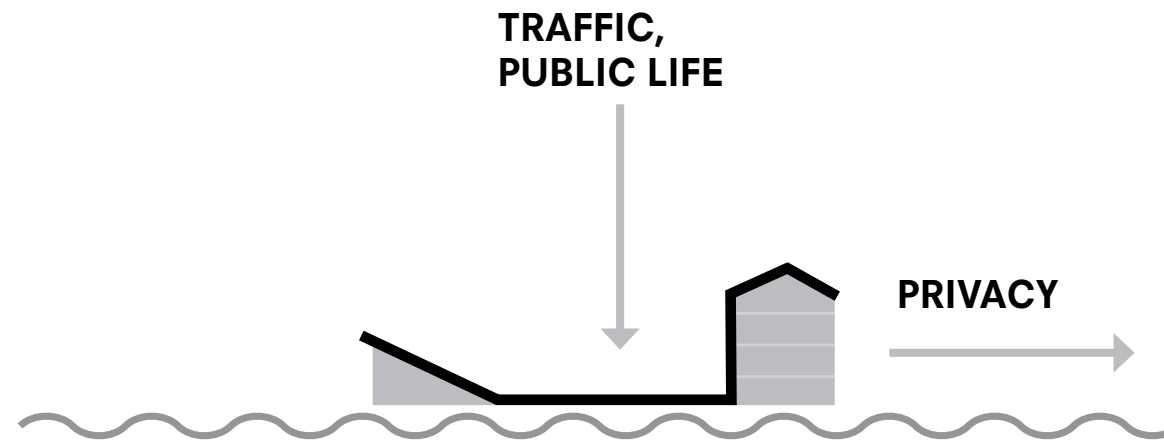
Modify the platform



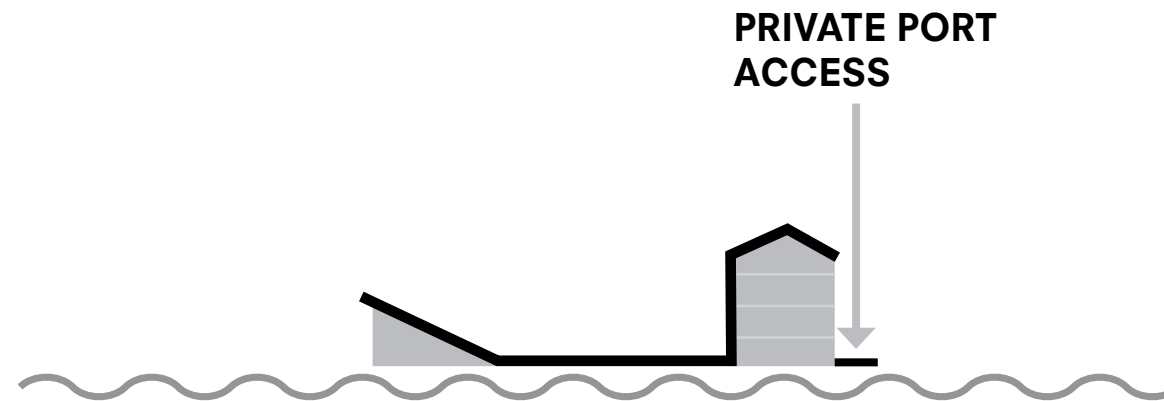
Modify the platform



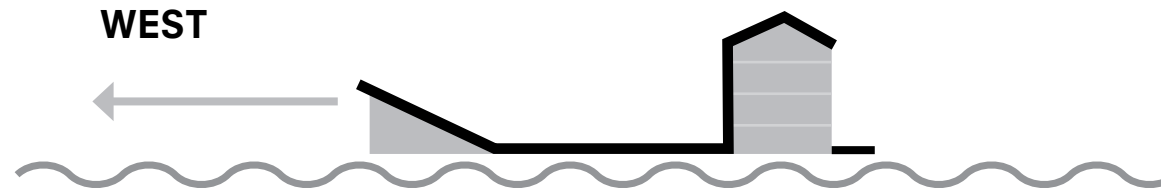
Housing



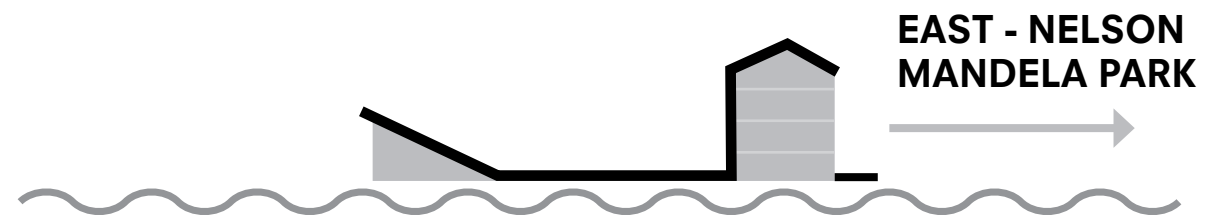
Private port



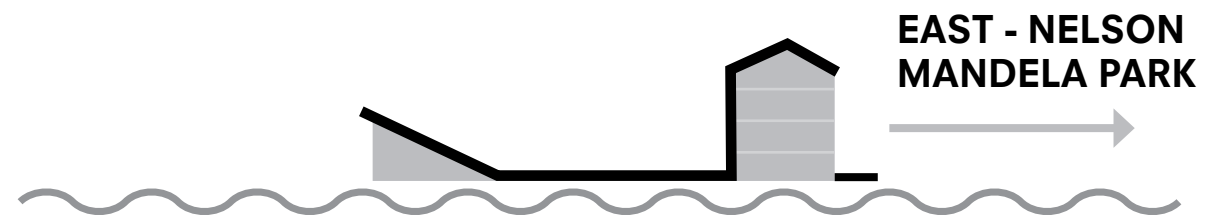
Unobstructed views



Unobstructed views

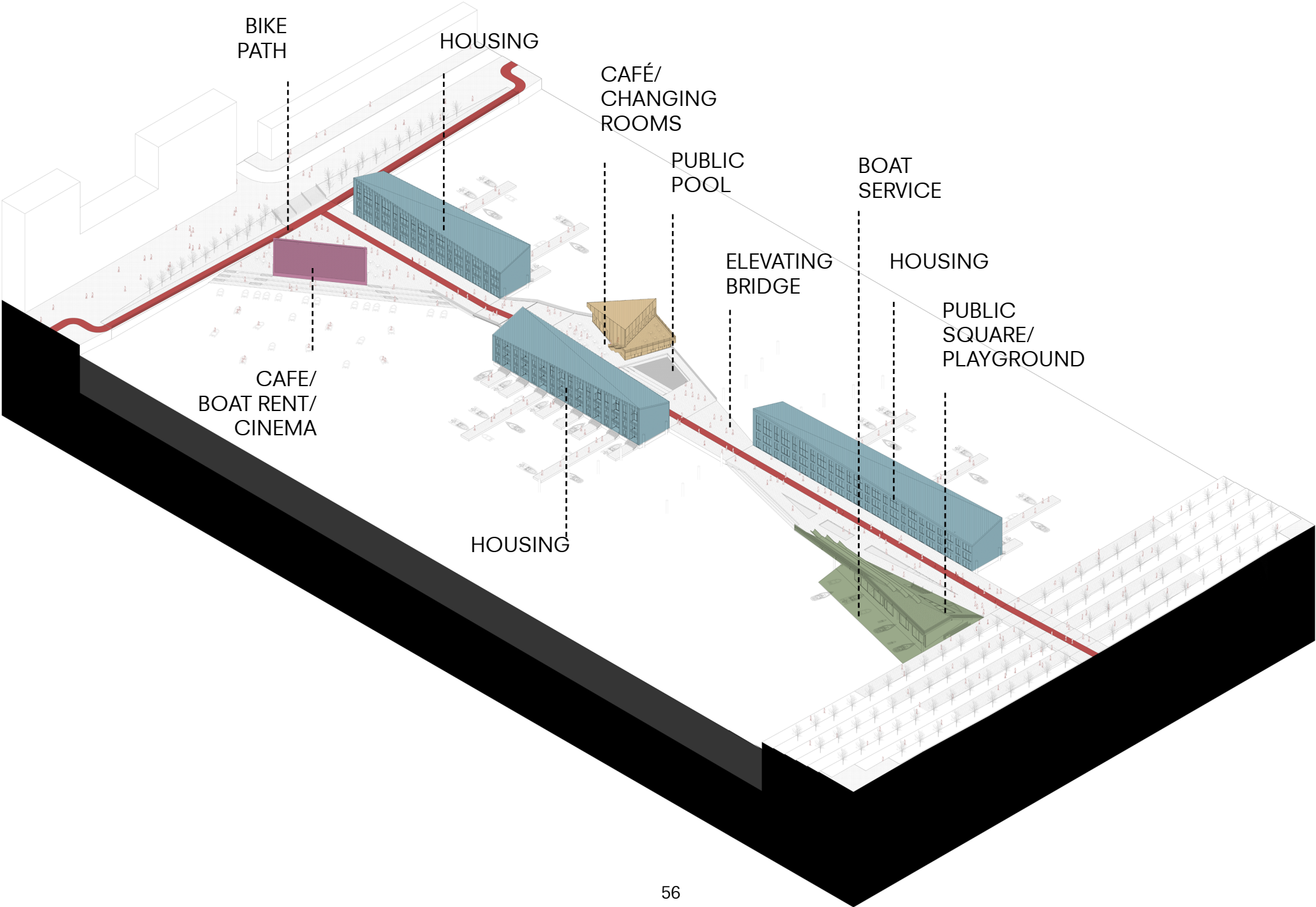


Unobstructed views

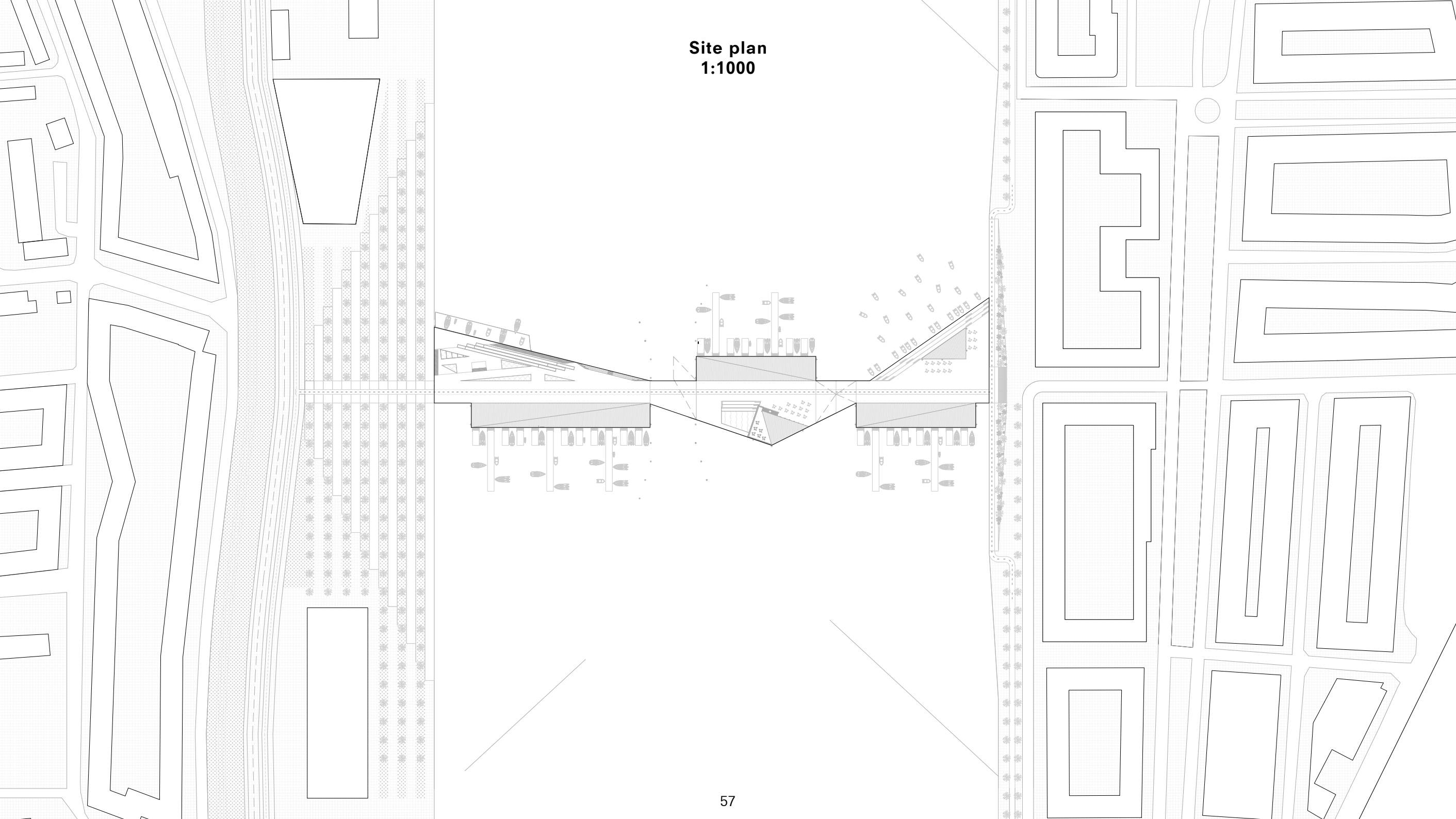


**EAST - NELSON
MANDELA PARK**

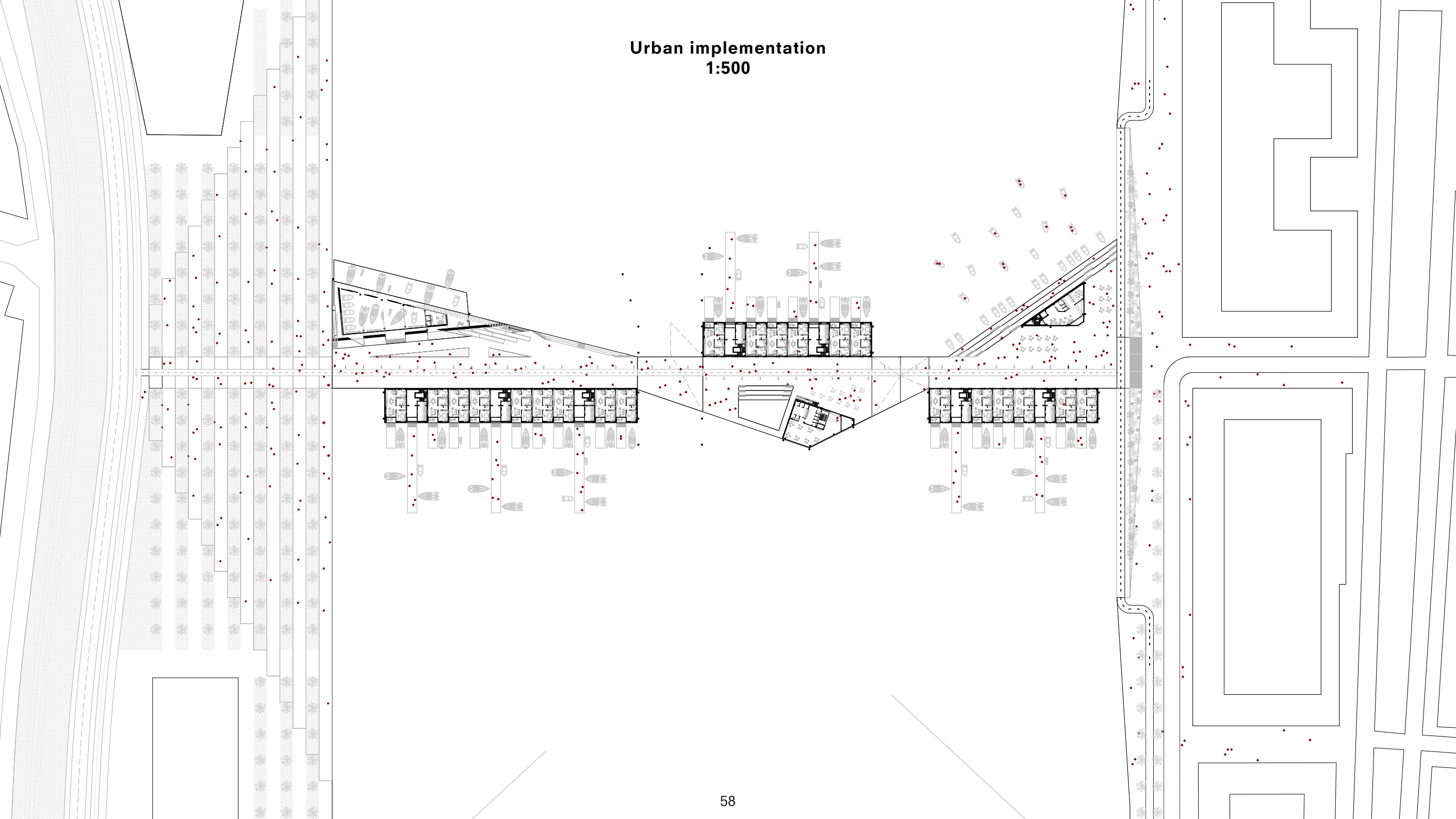
Program



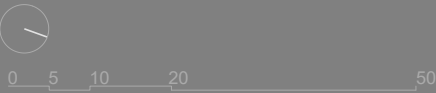
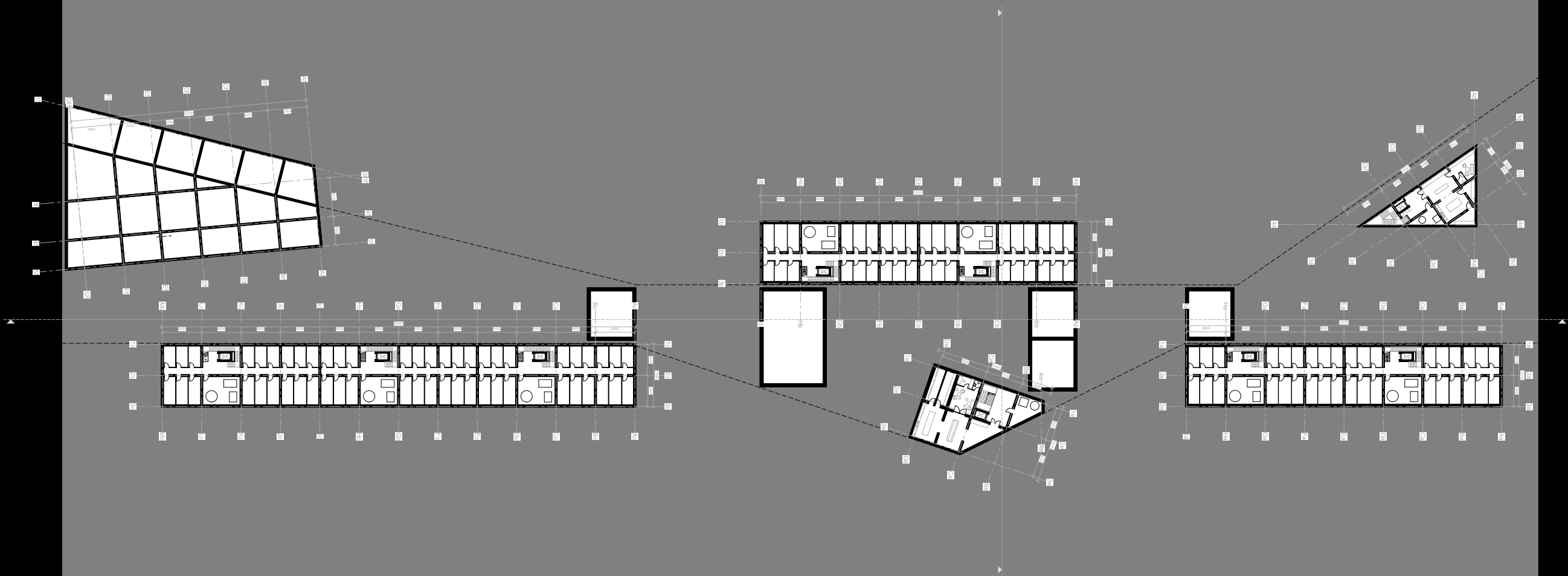
Site plan
1:1000



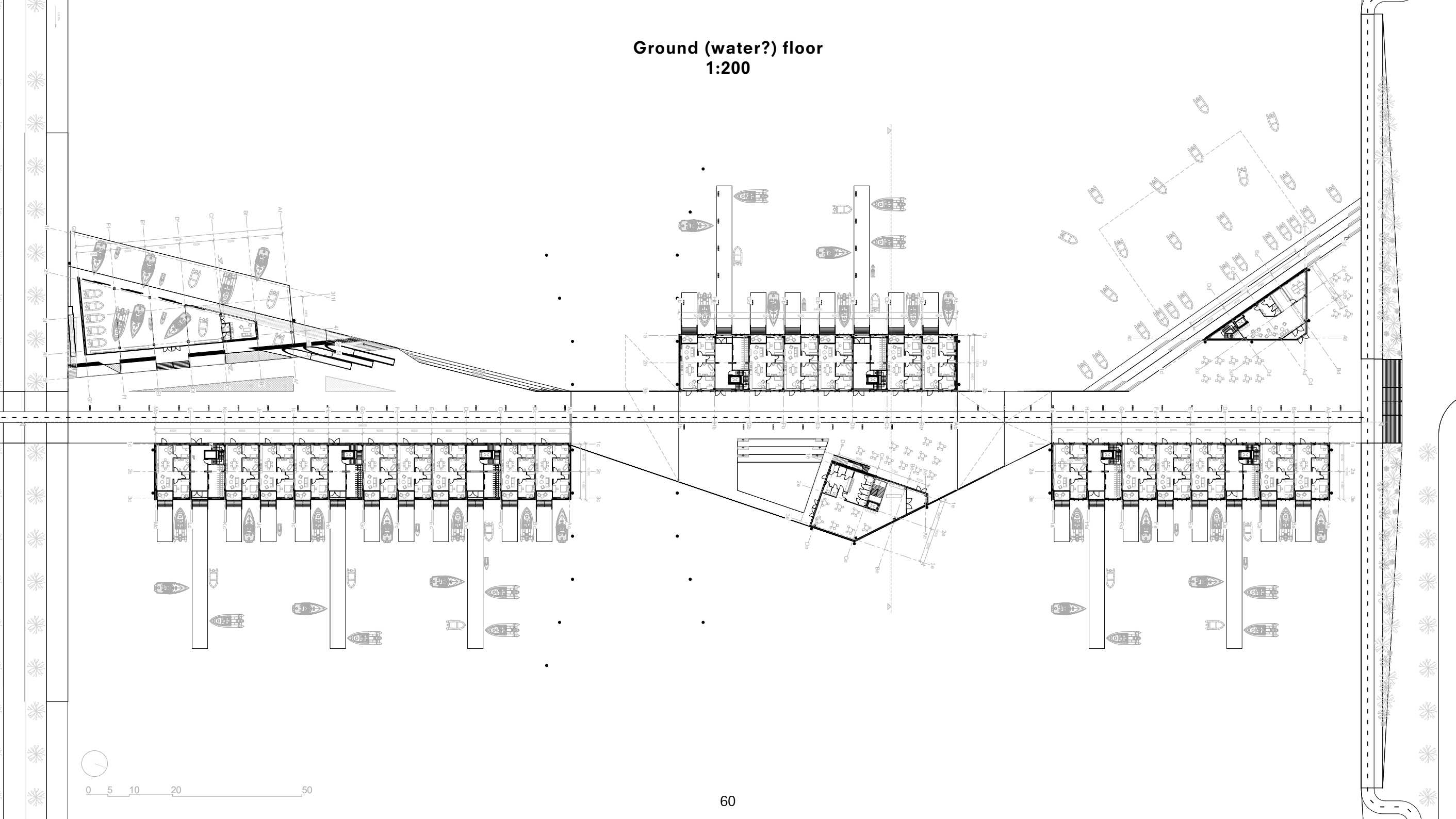
Urban implementation
1:500



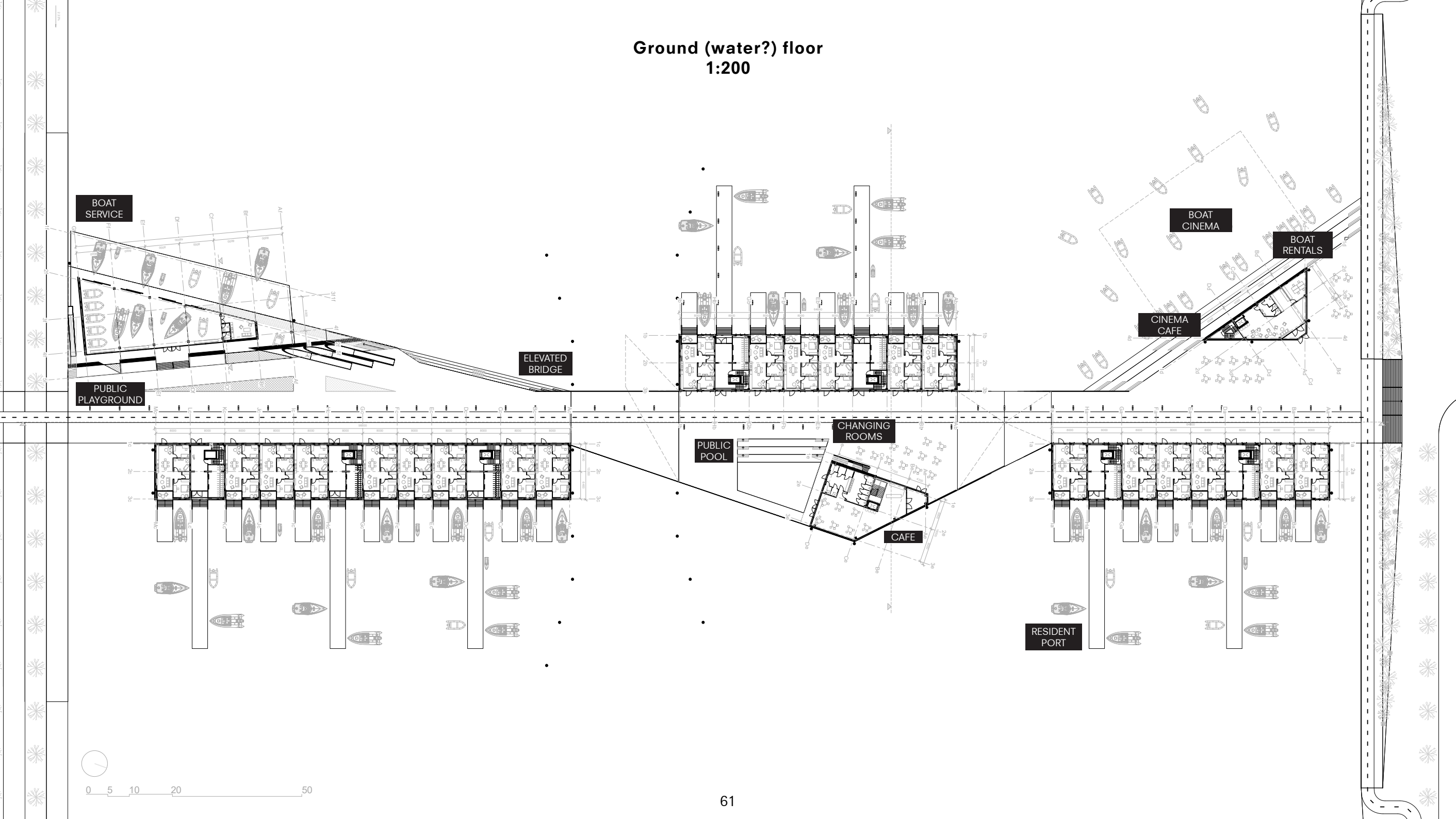
Basement
1:200



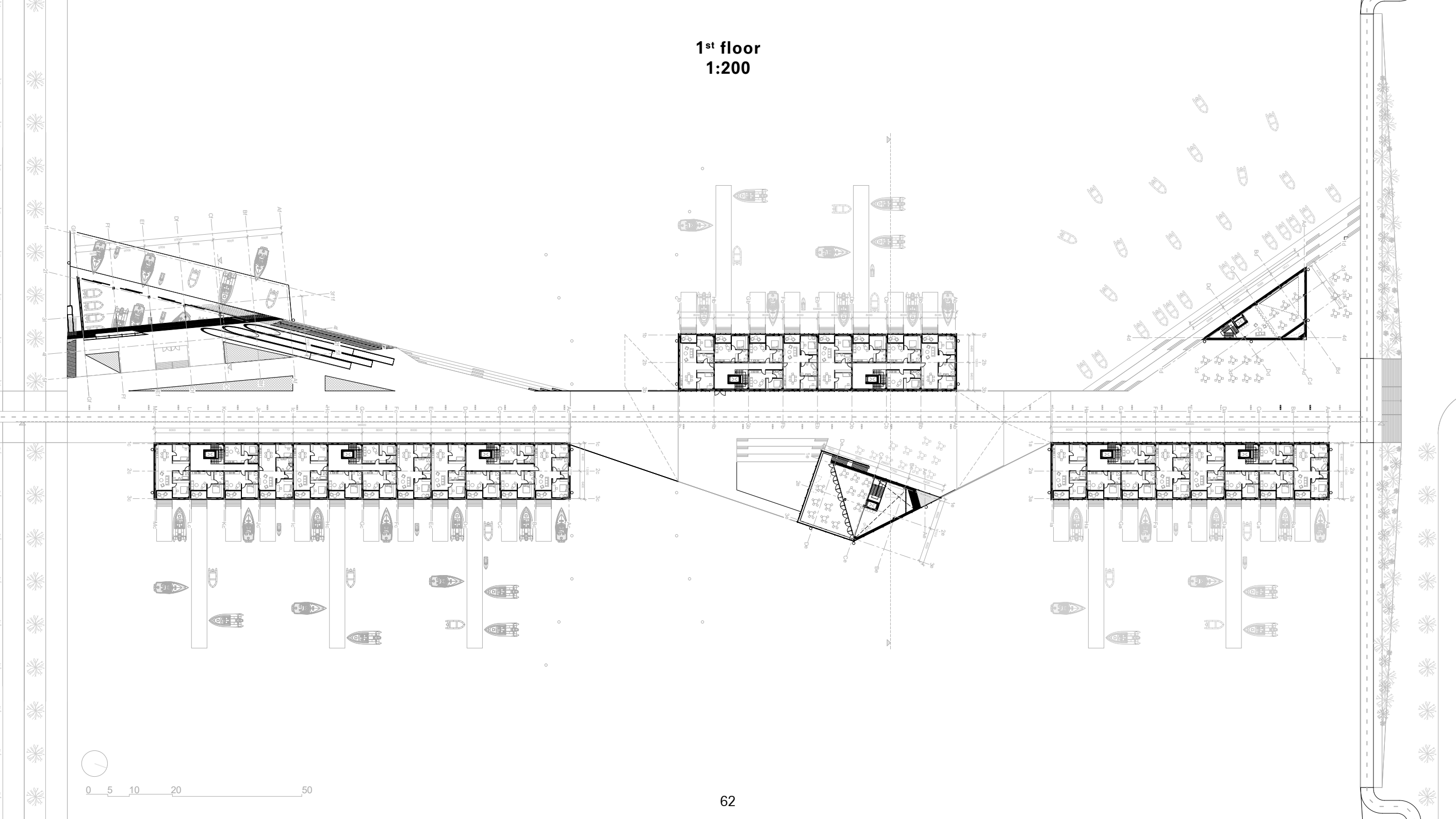
Ground (water?) floor
1:200



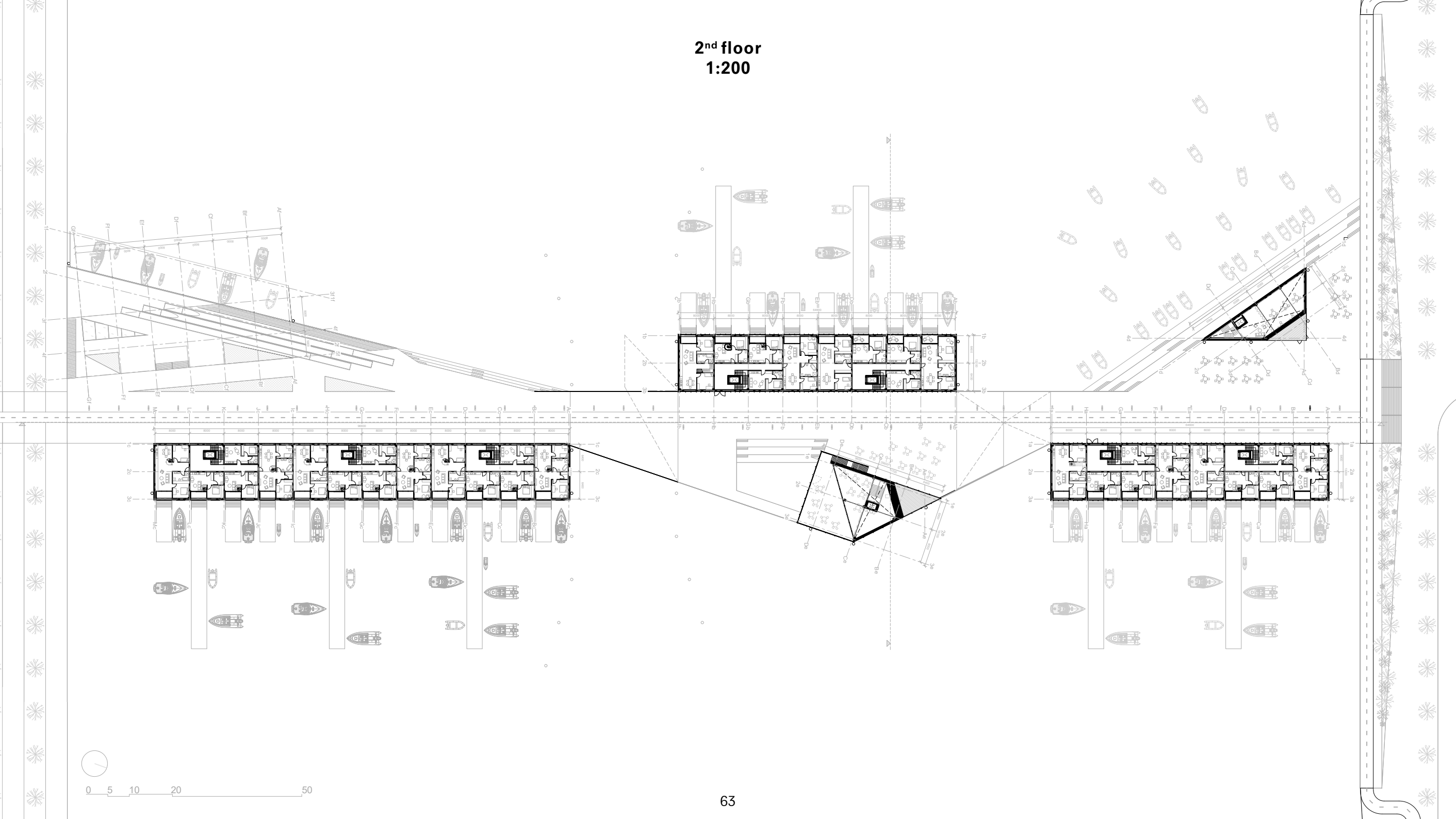
Ground (water?) floor
1:200



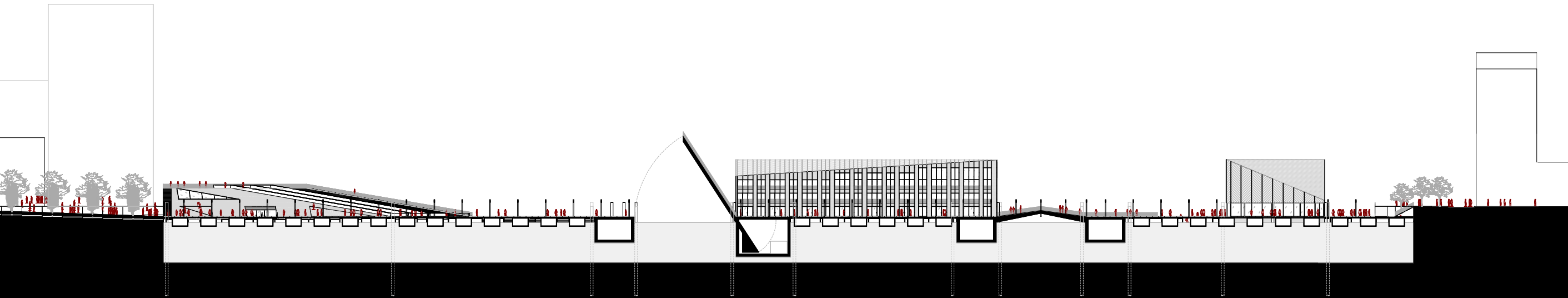
1st floor
1:200



2nd floor
1:200



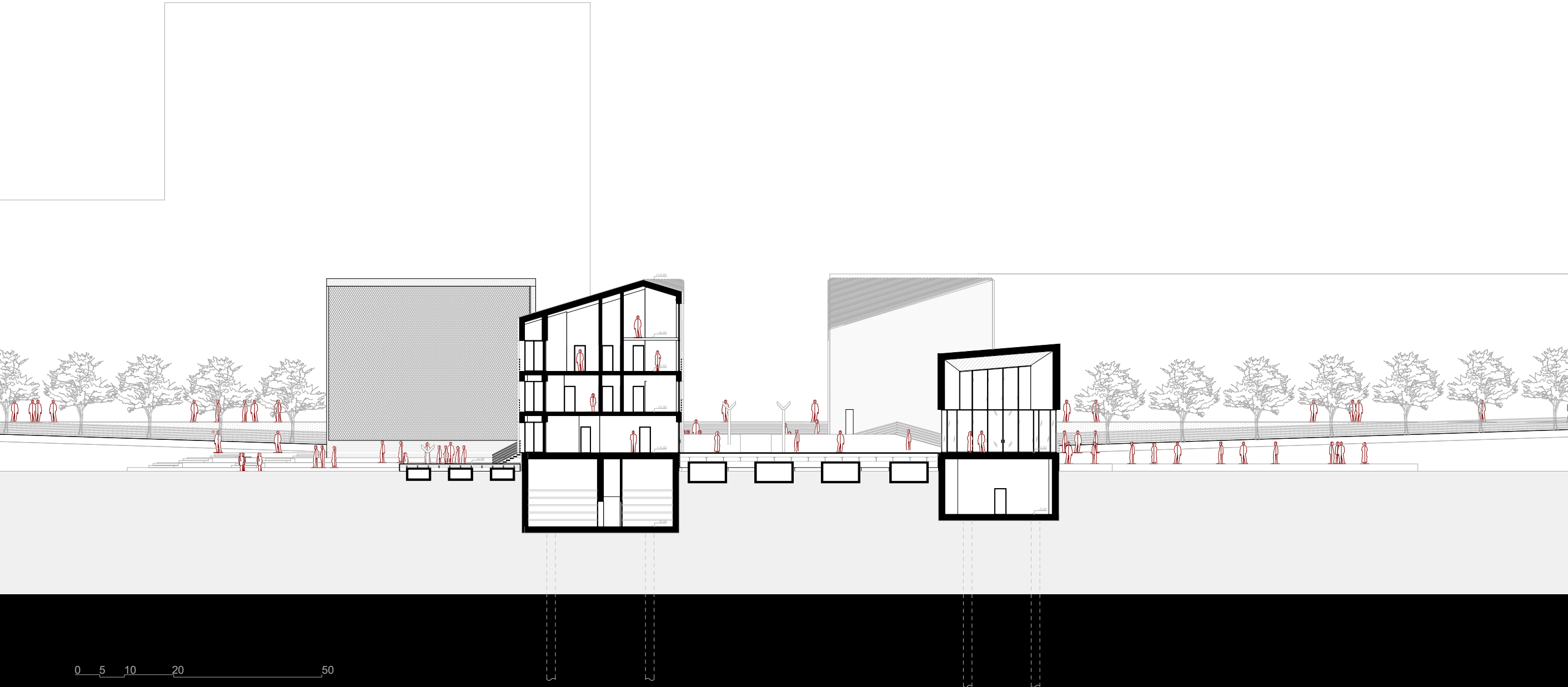
Longitudinal section
1:200



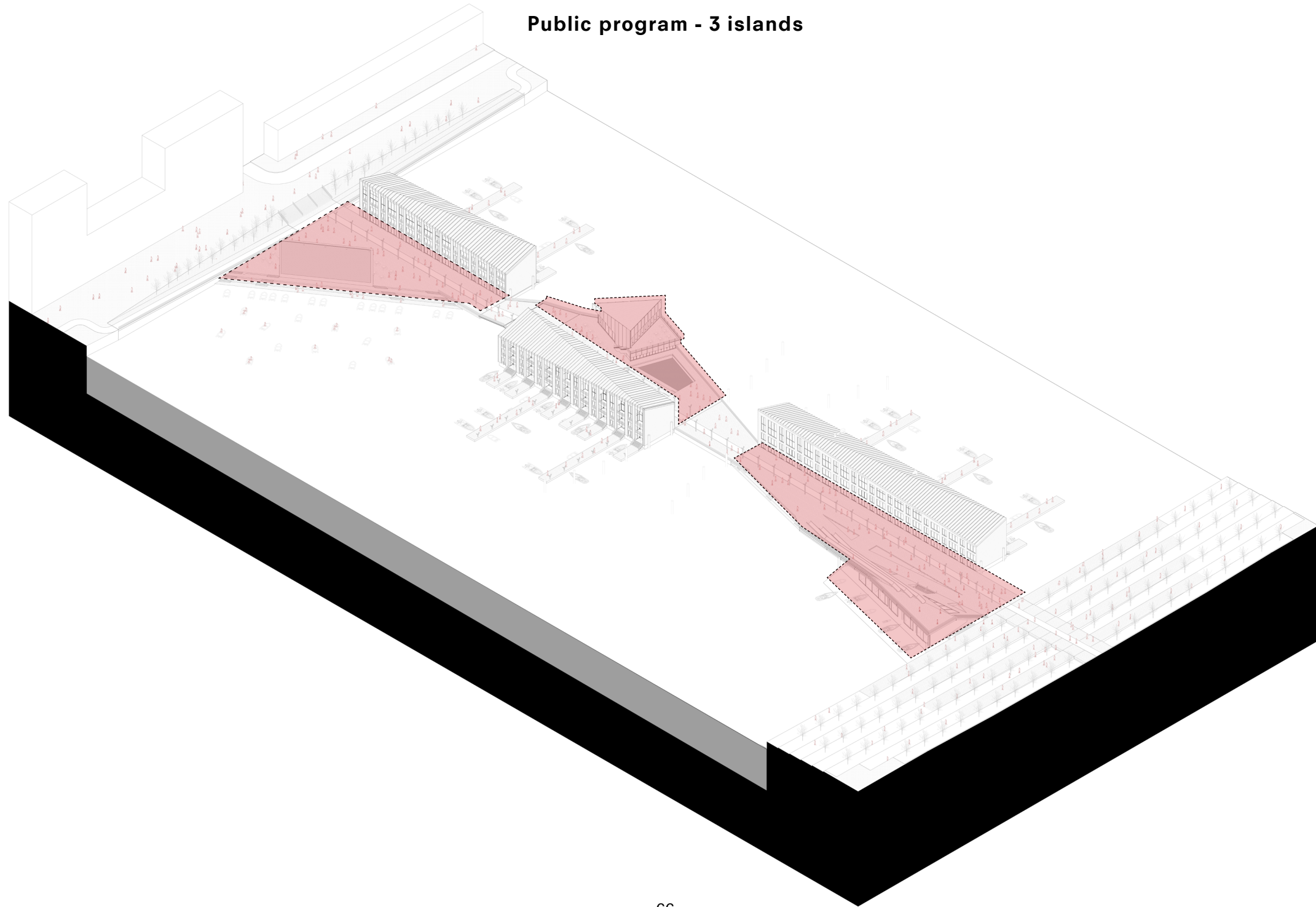
0 5 10 20 50

0 5 10 20 50

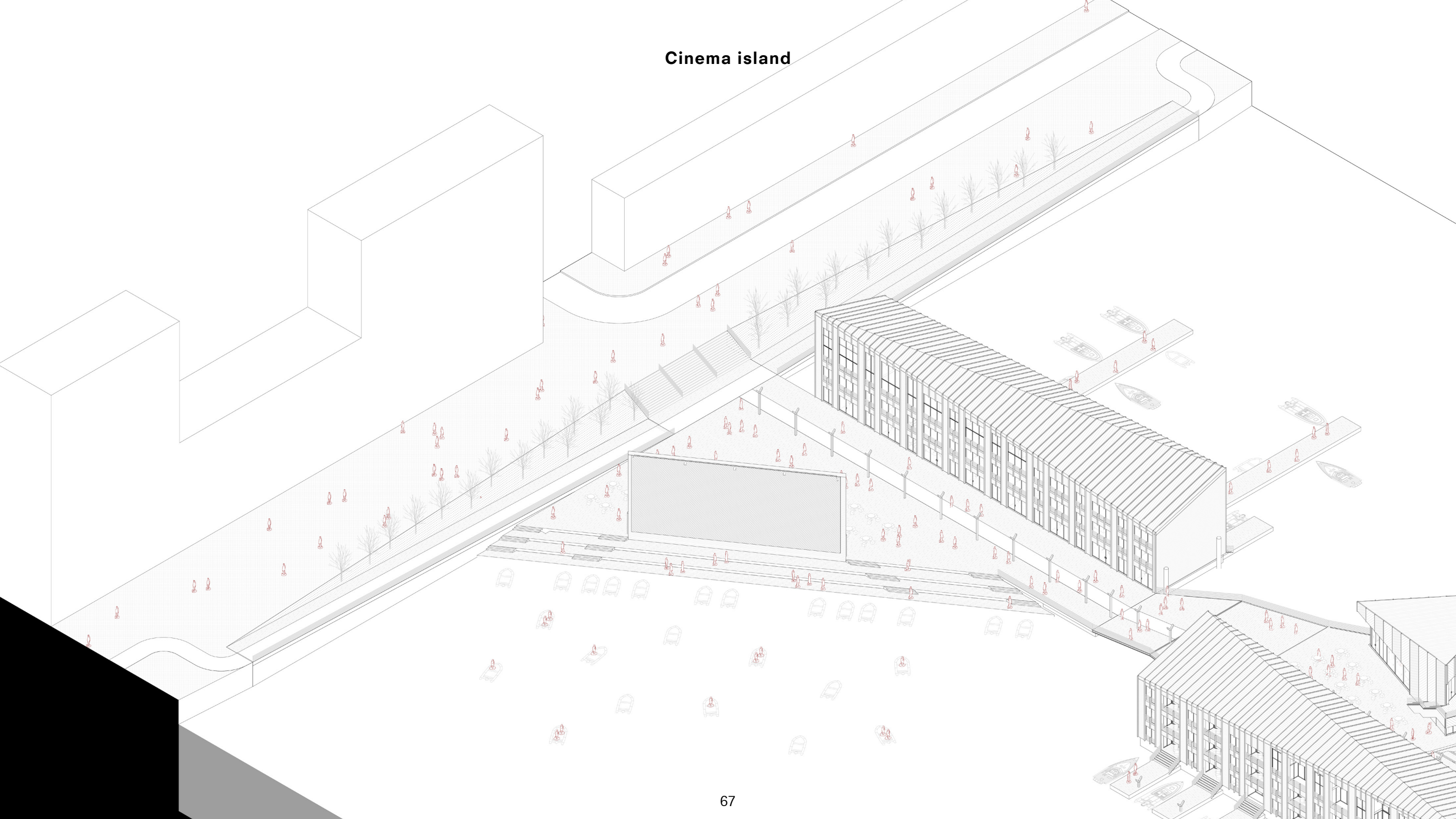
Cross section
1:200



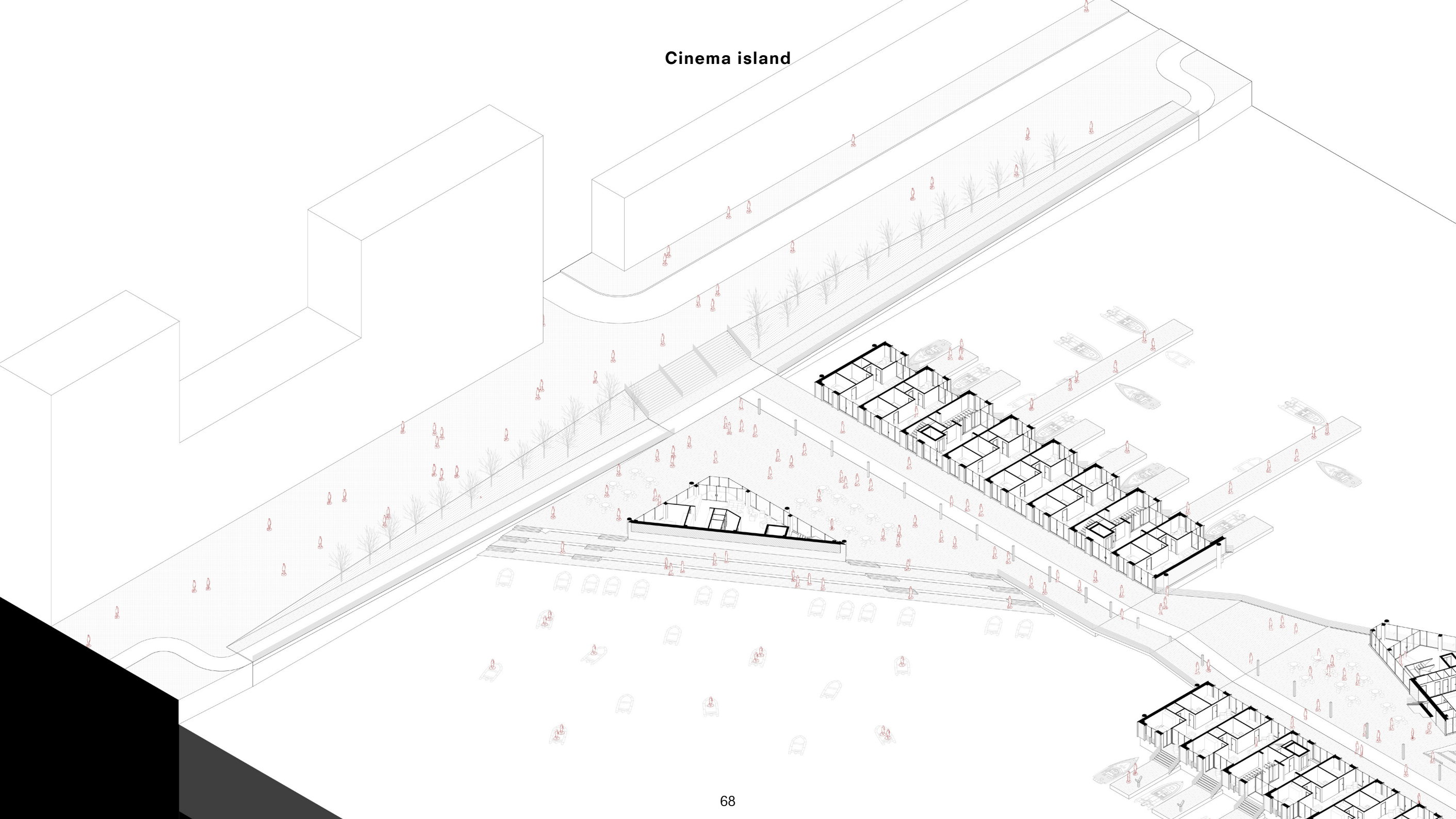
Public program - 3 islands



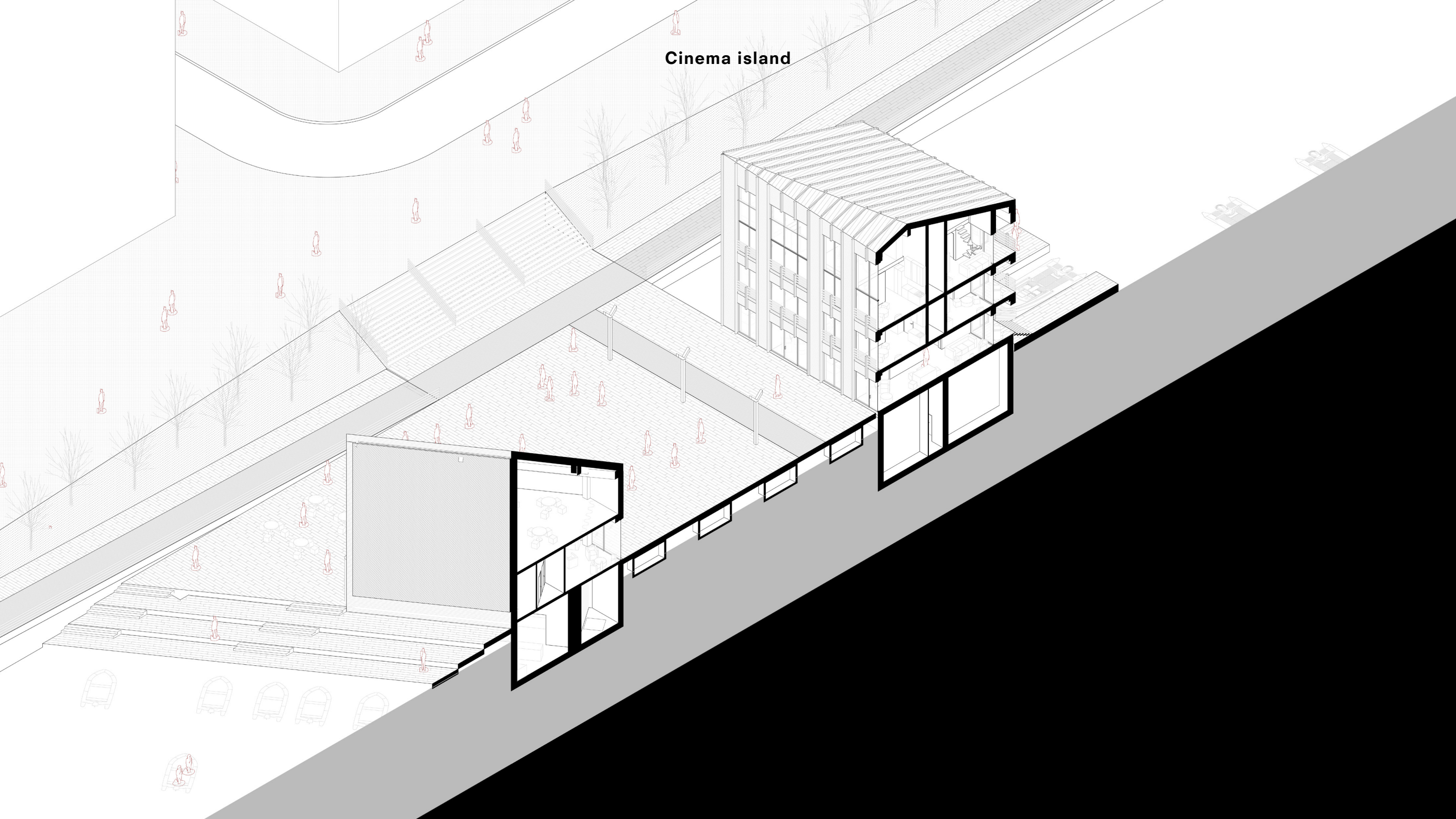
Cinema island



Cinema island

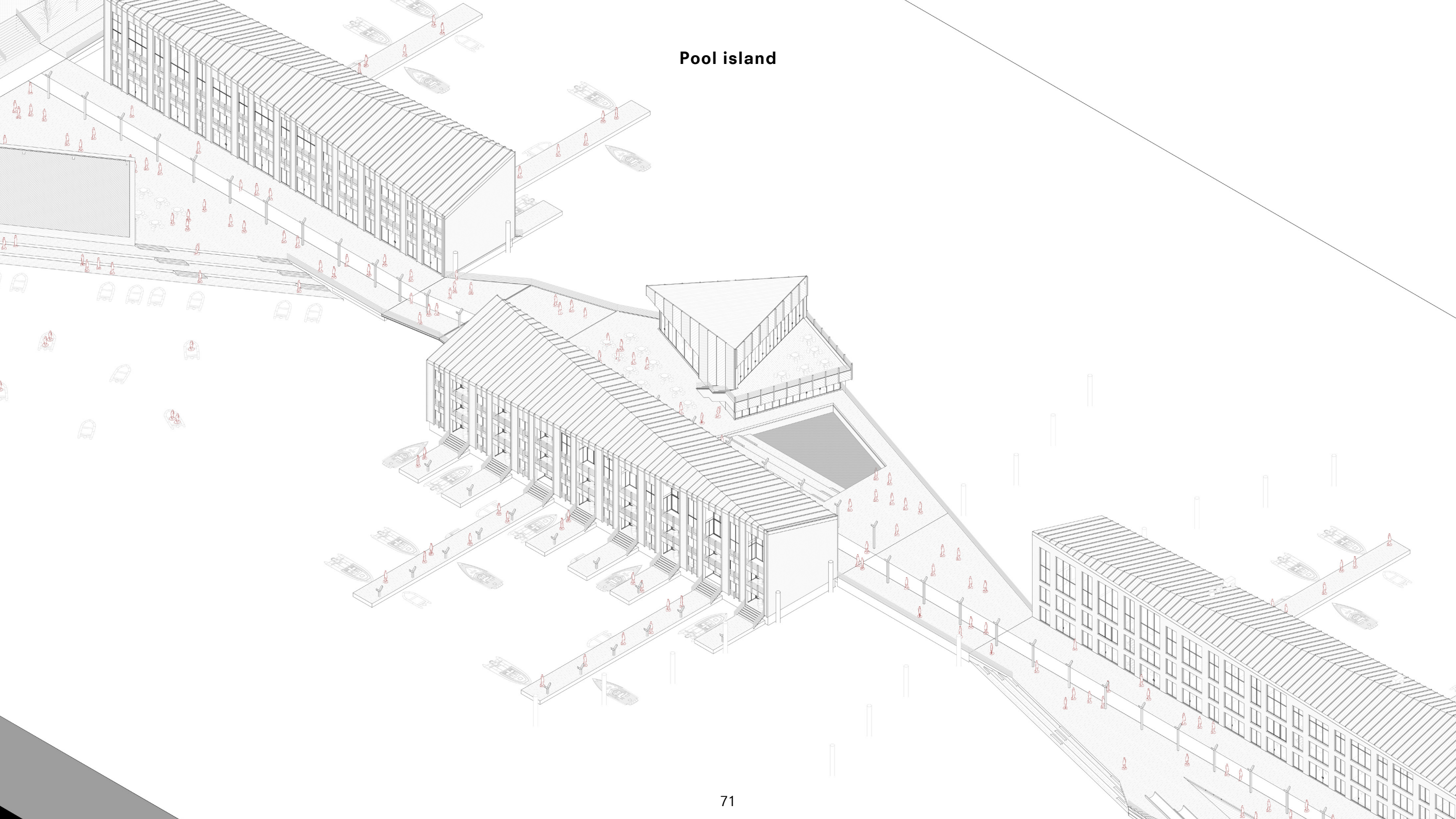


Cinema island

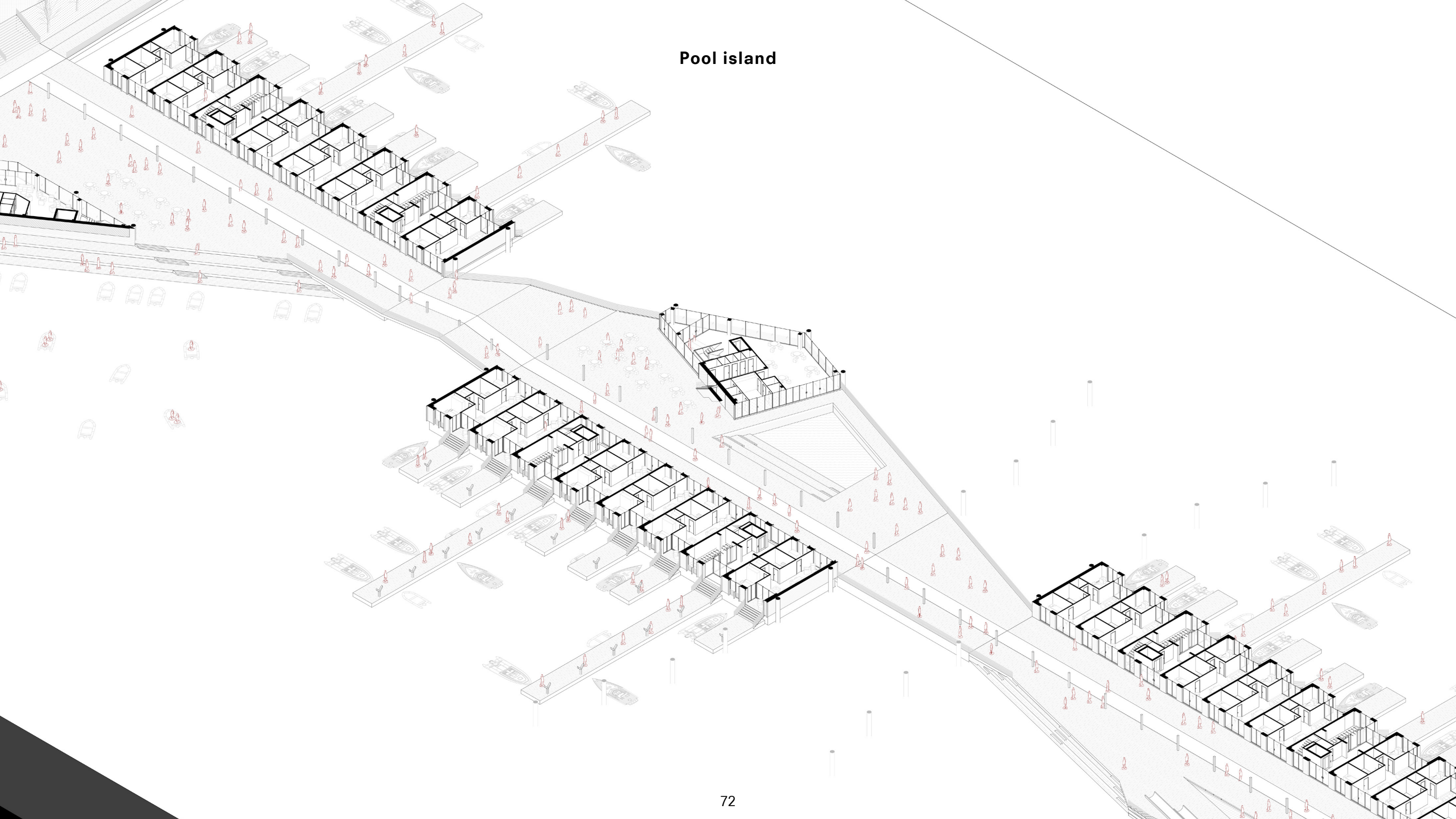




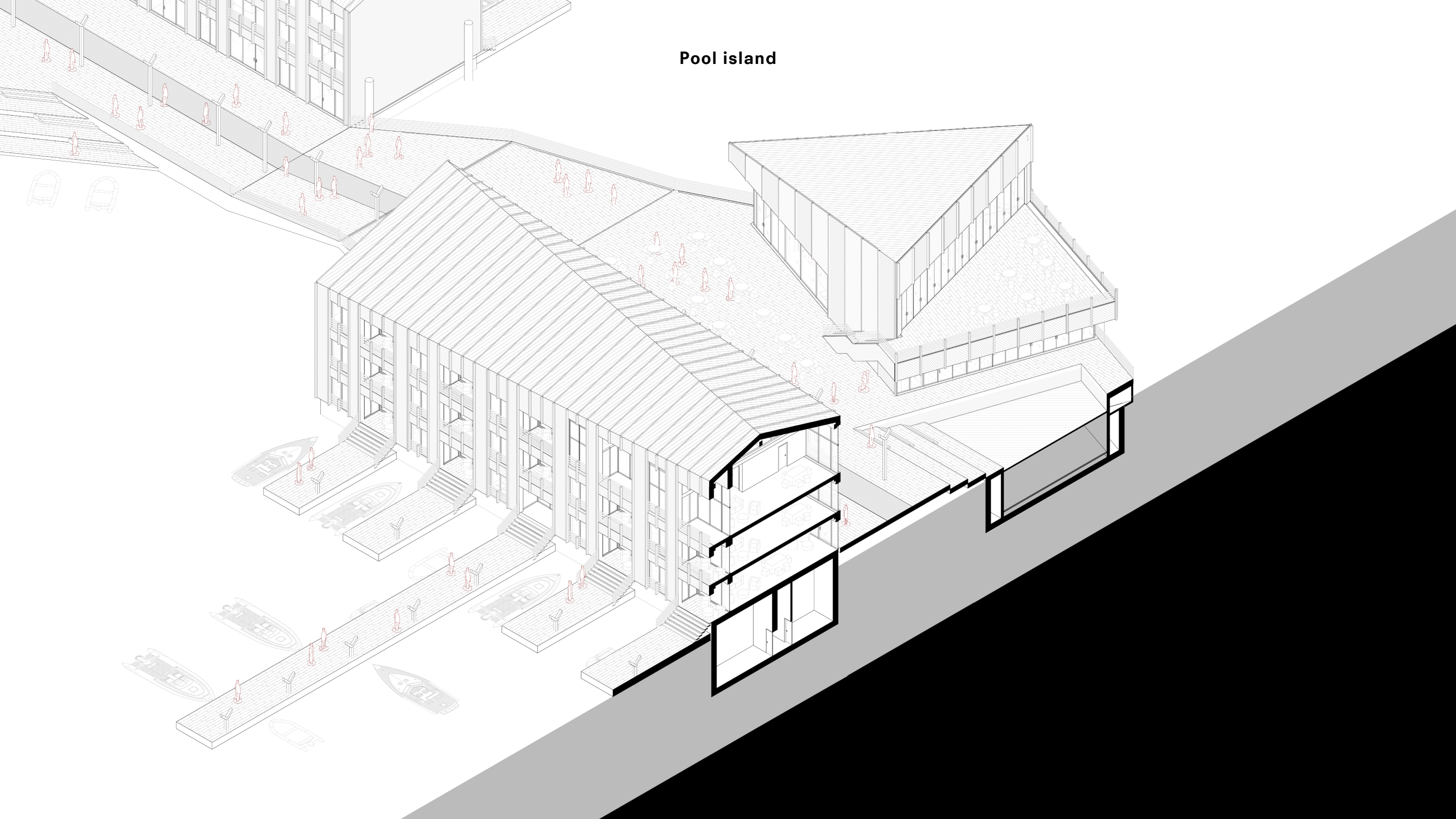
Pool island



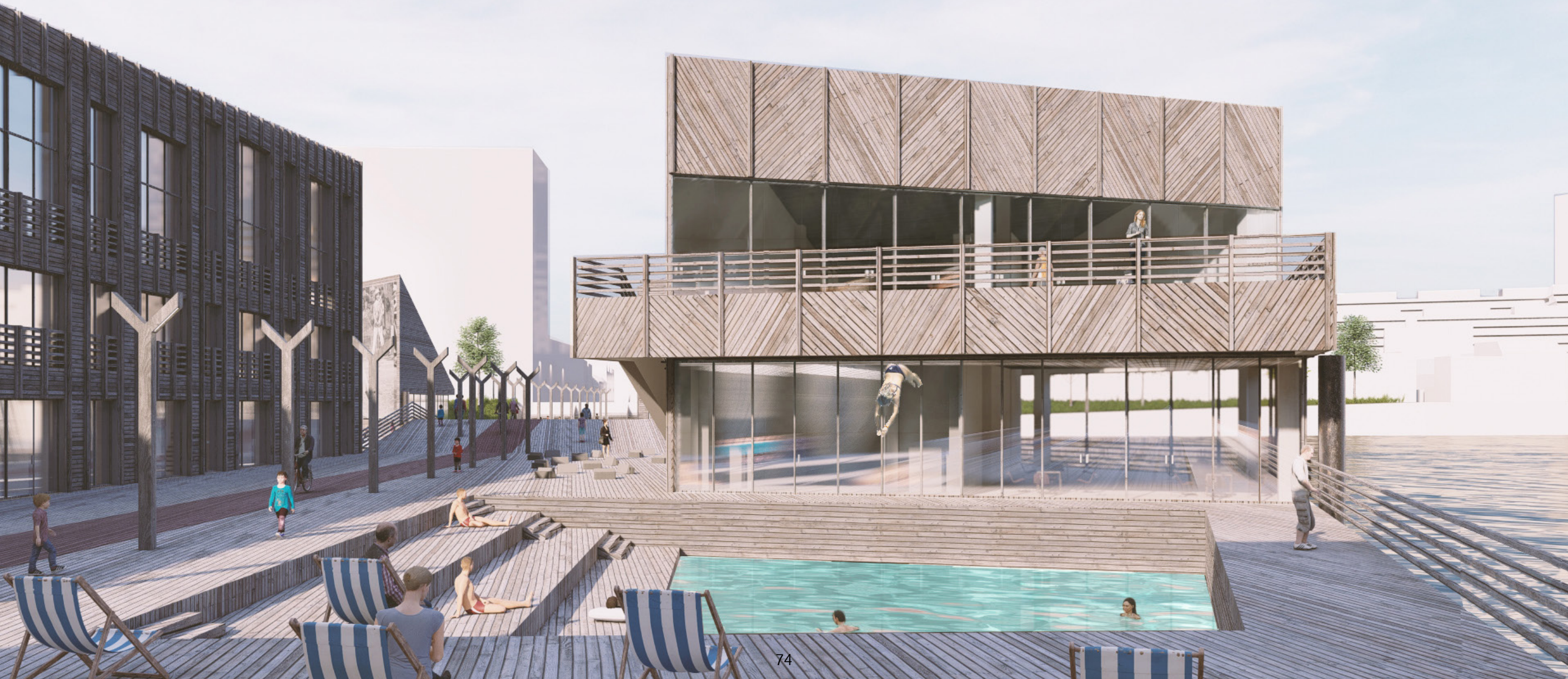
Pool island



Pool island



Public pool
open



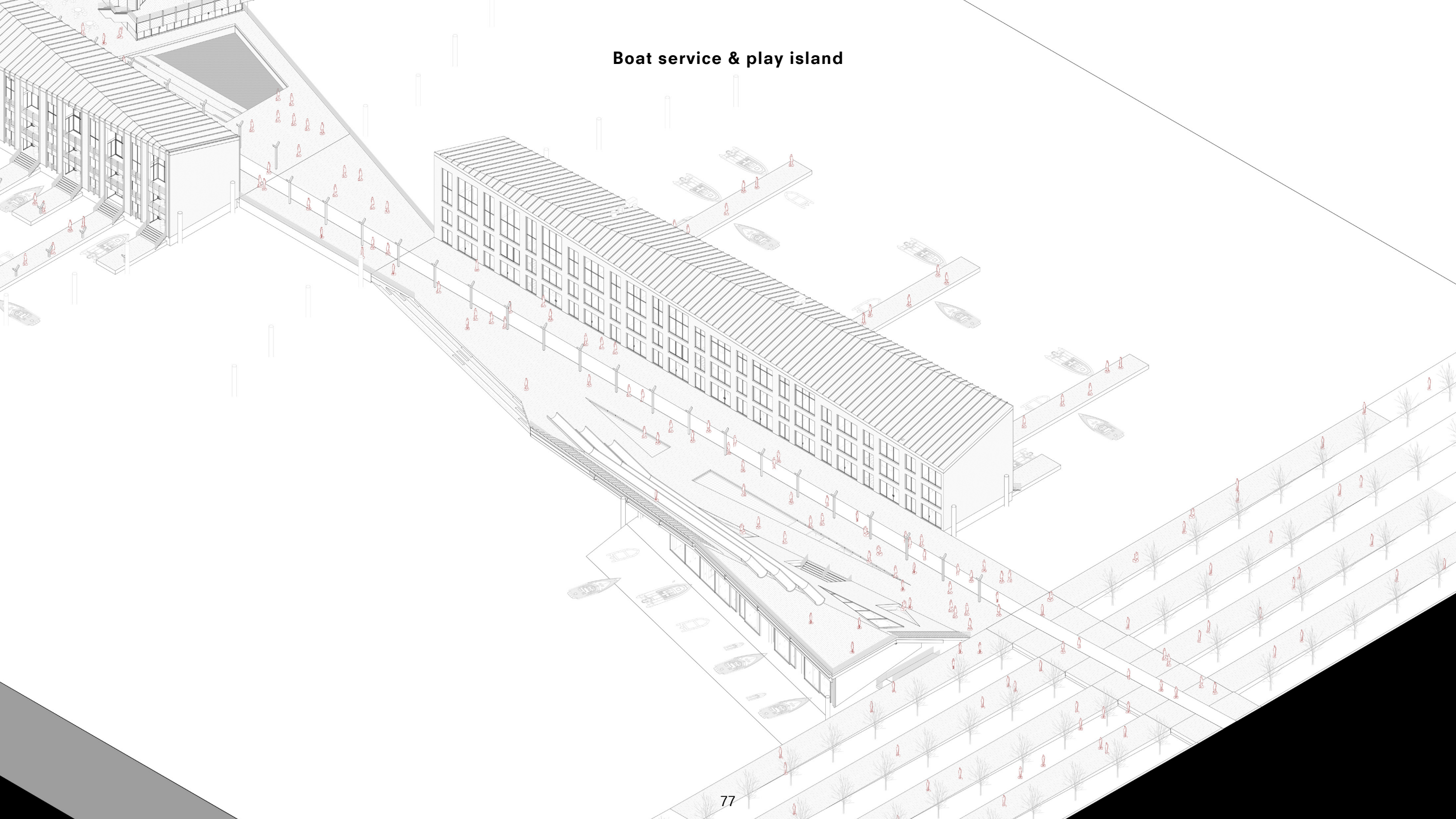
Public pool
closed



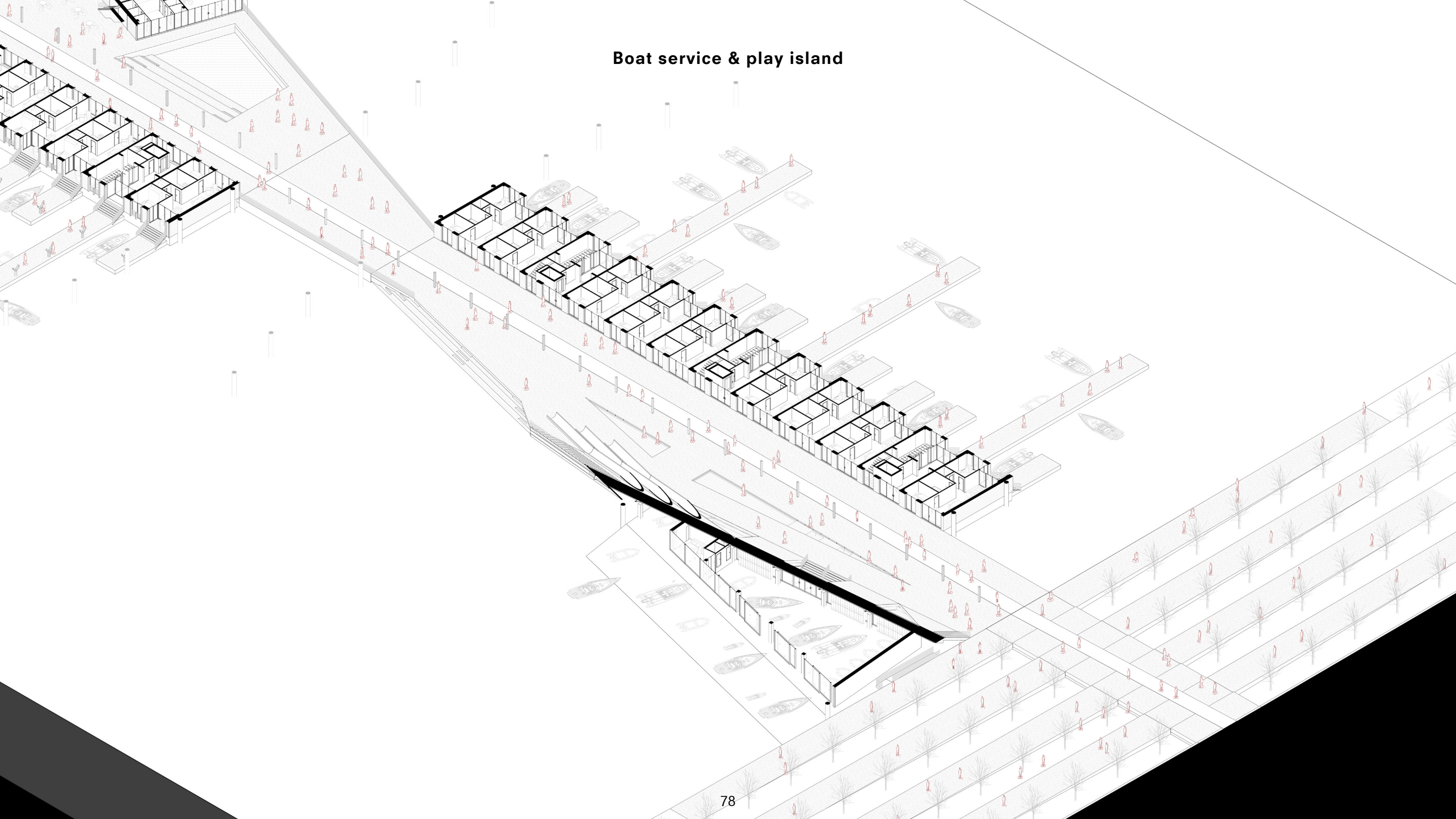
Inside the cafe



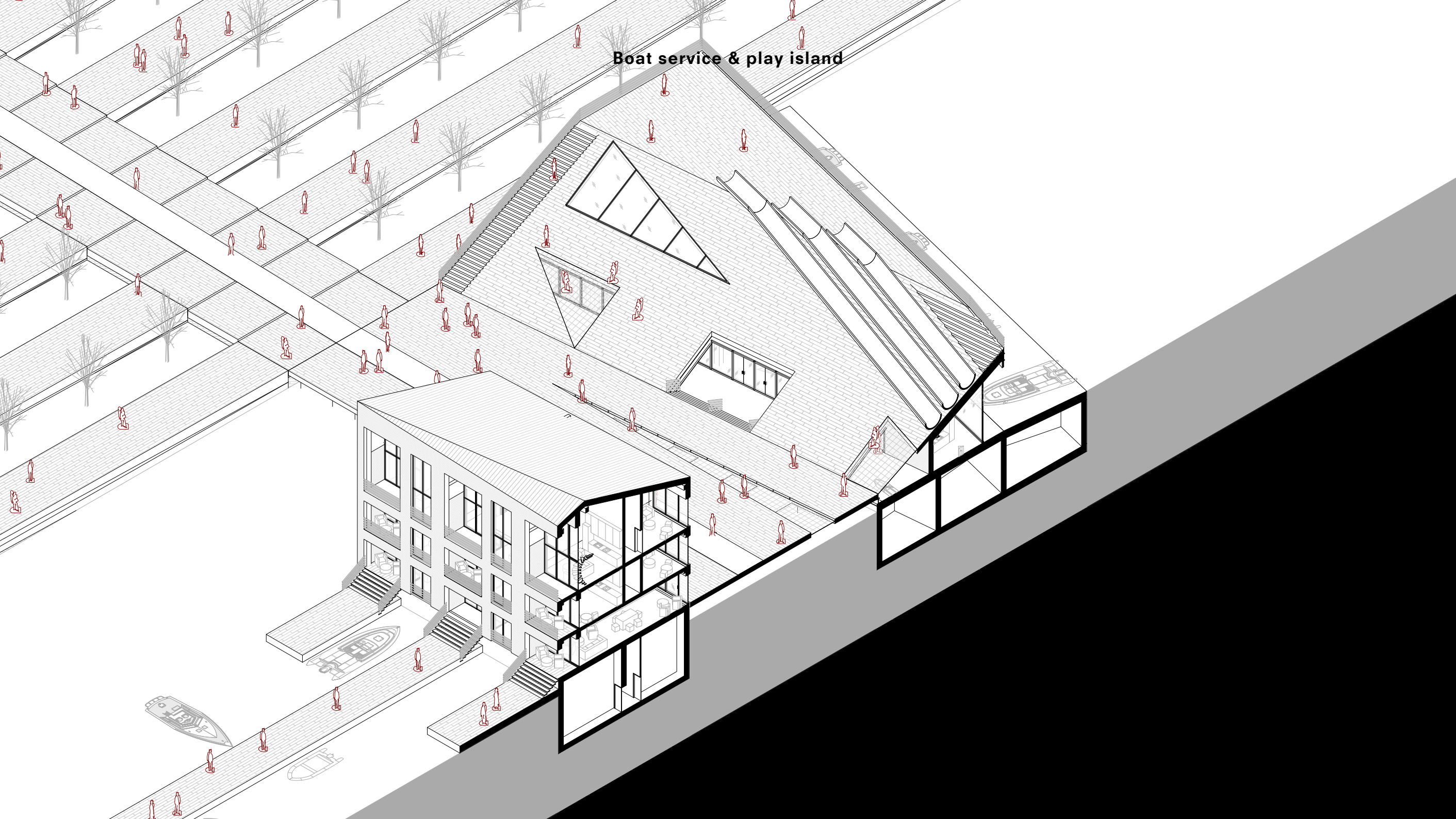
Boat service & play island



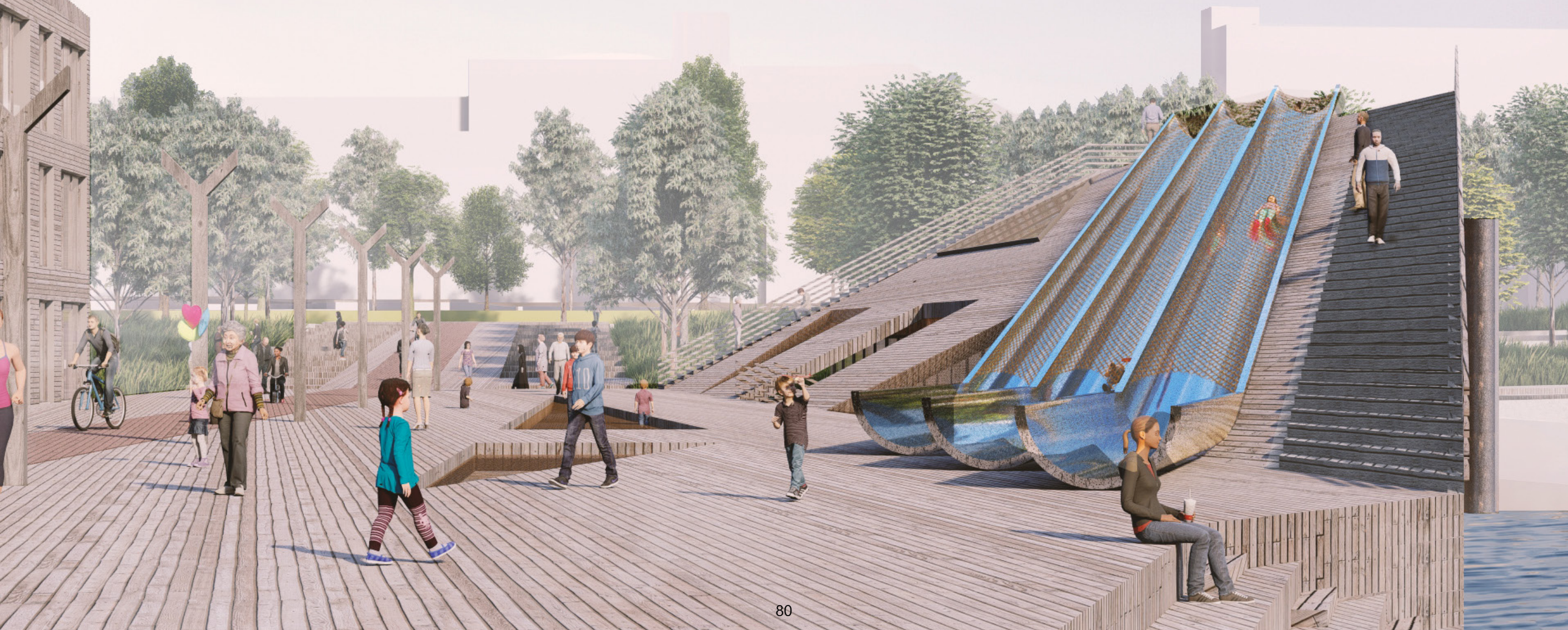
Boat service & play island



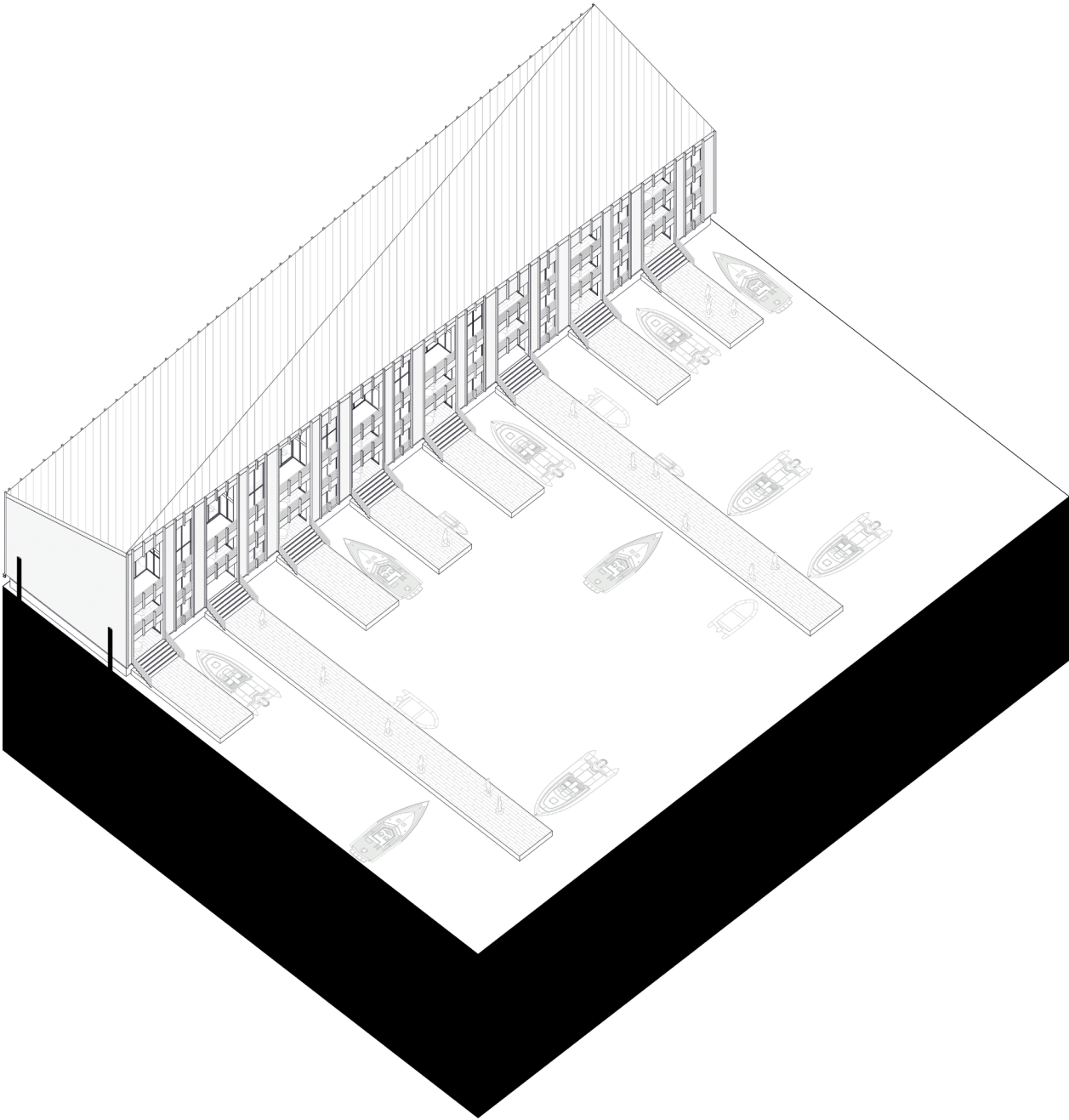
Boat service & play island



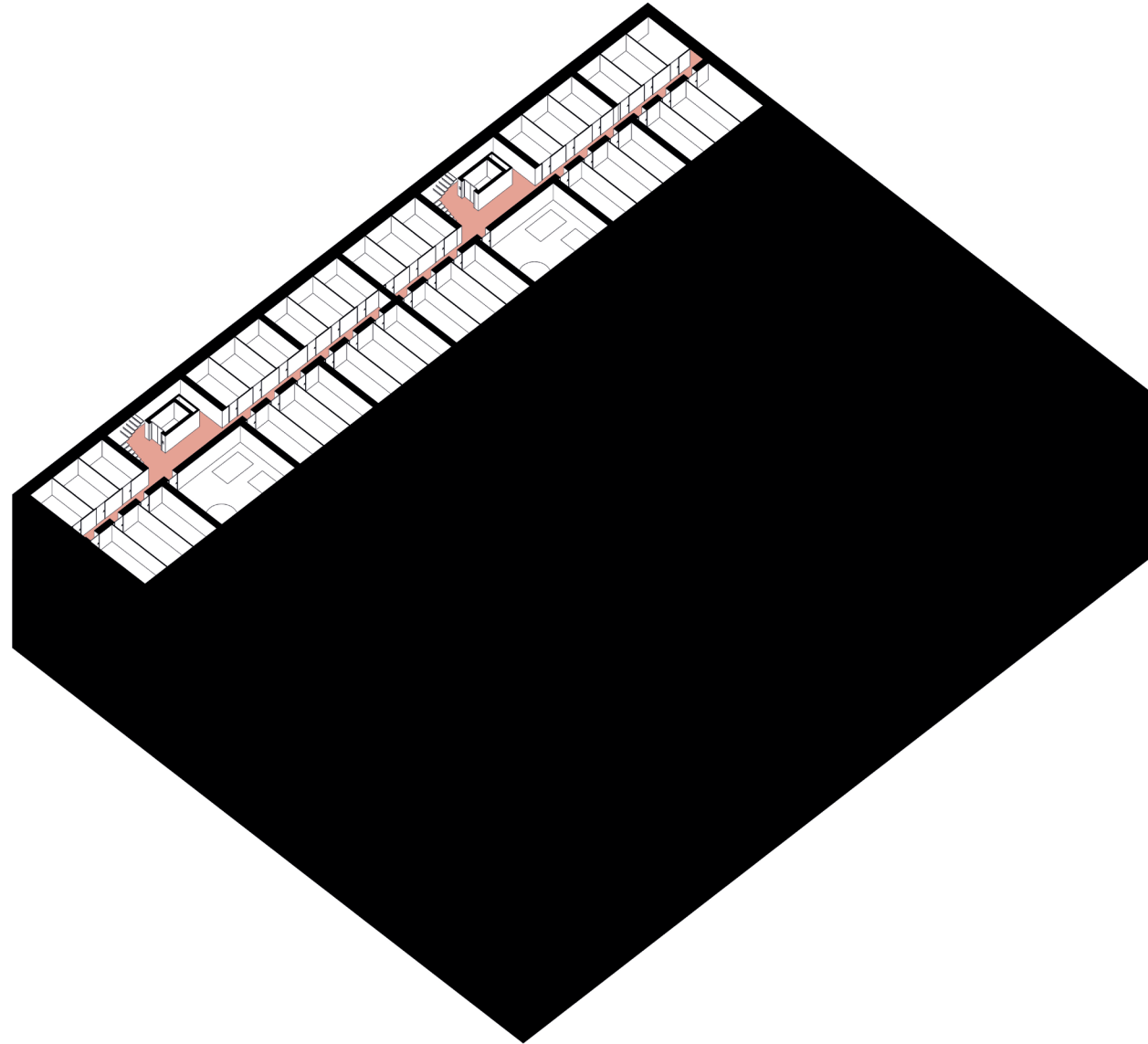
Boat service & play island



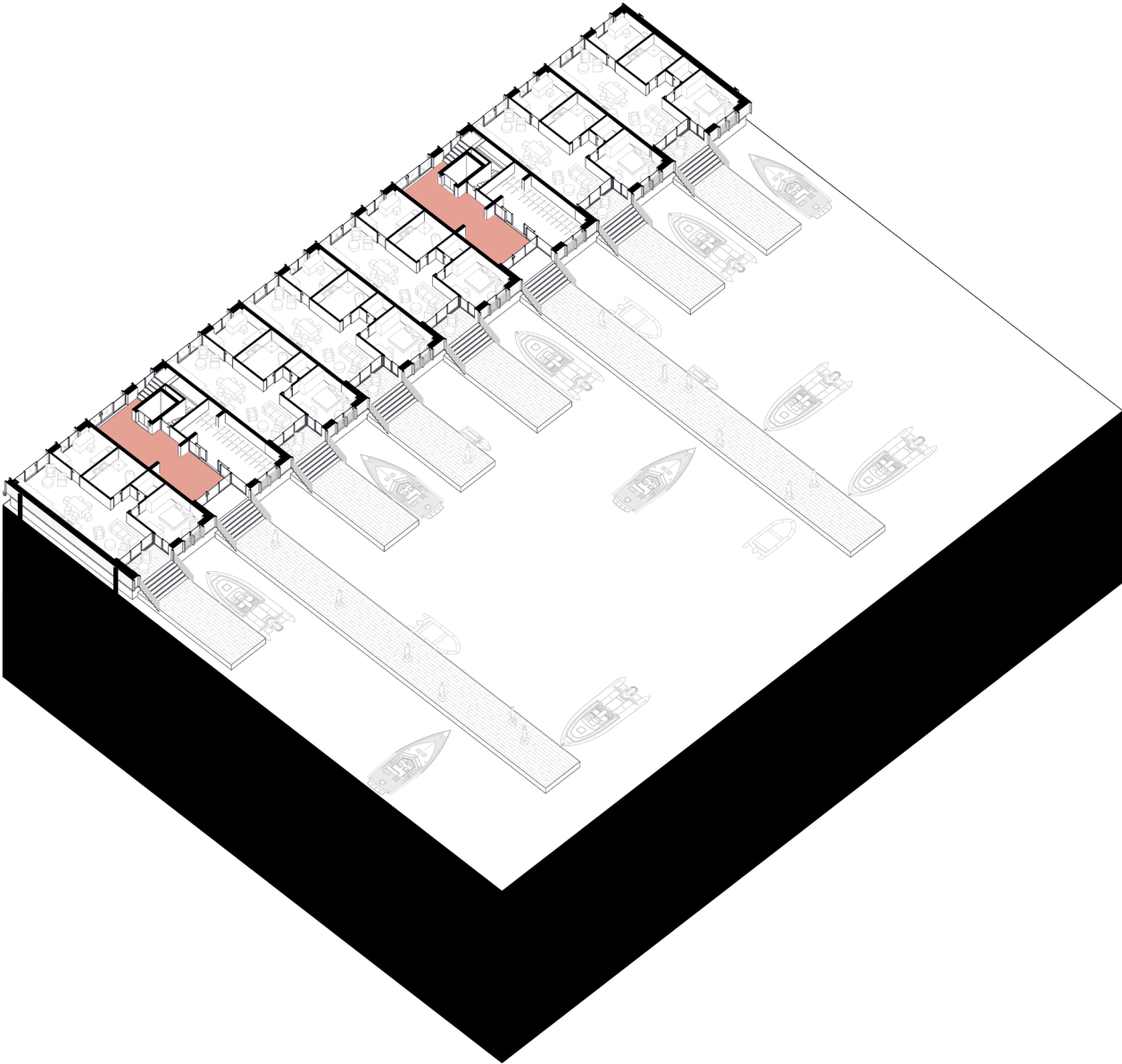
Housing



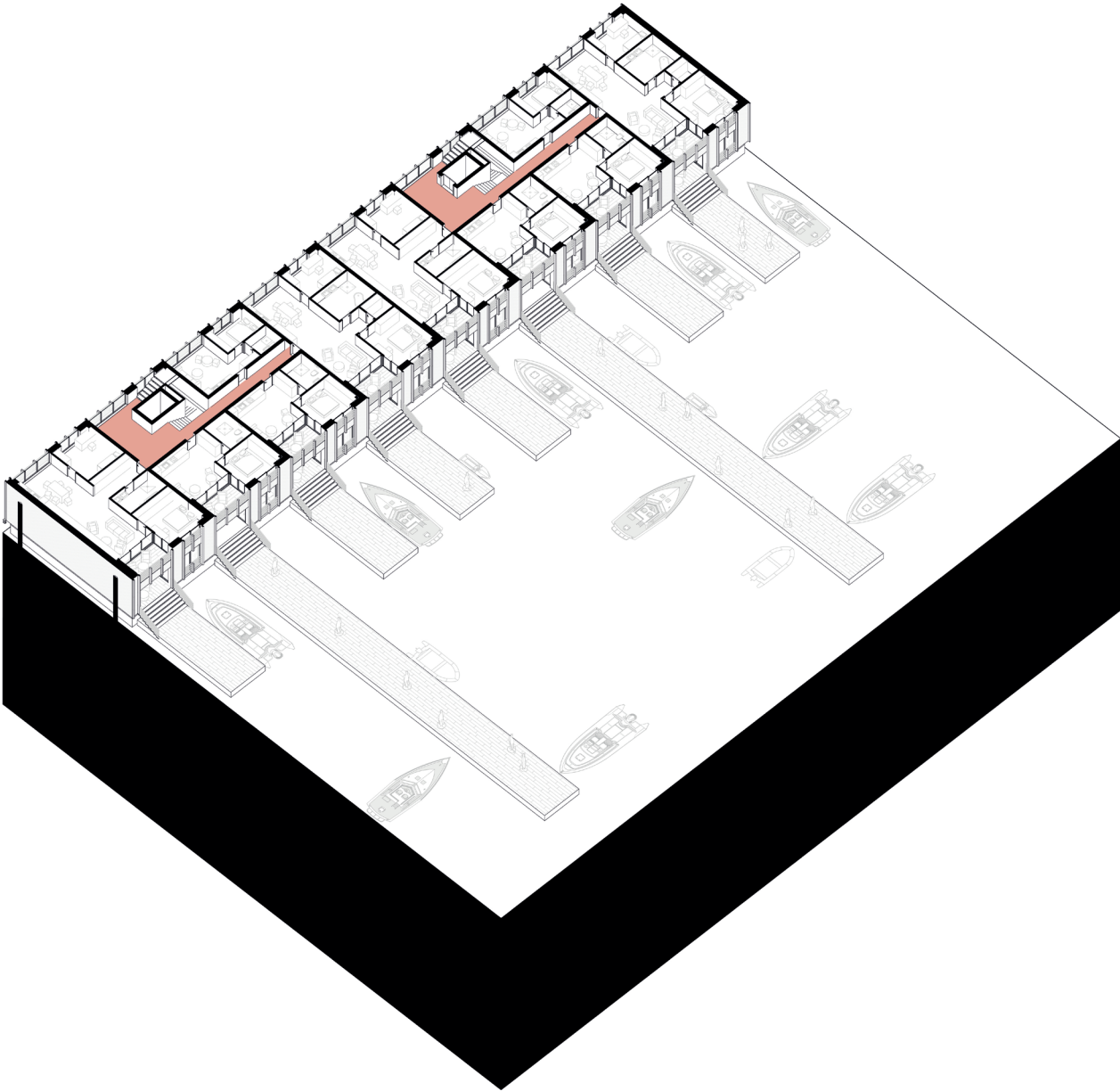
Housing



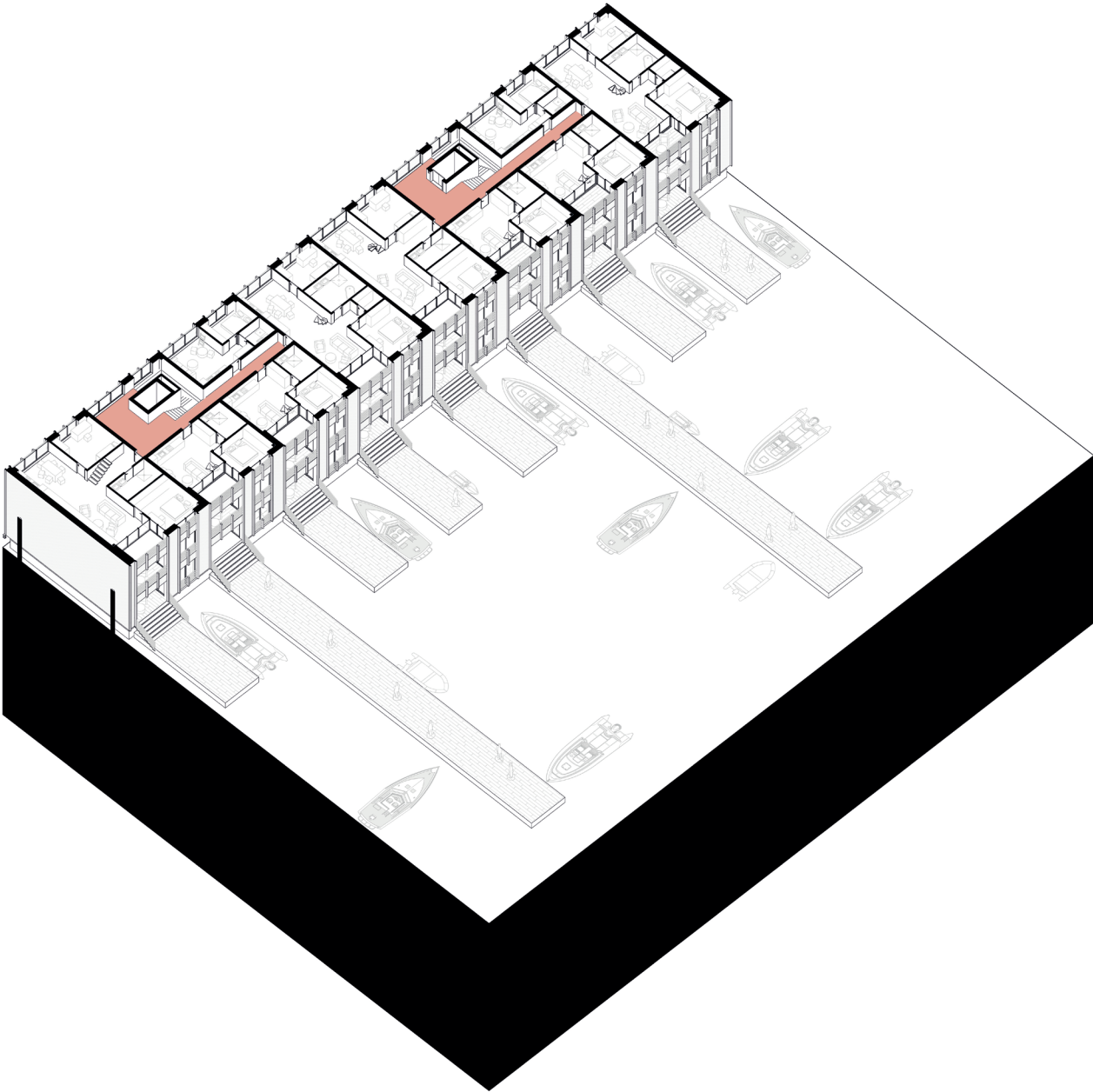
Housing



Housing



Housing



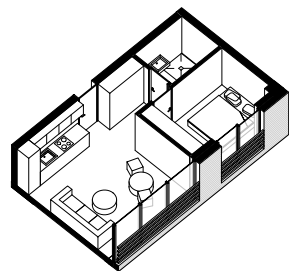
Housing



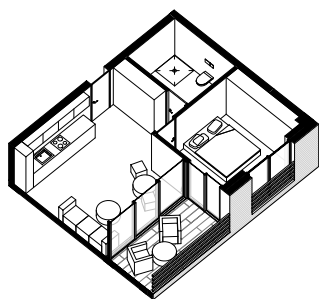
Housing



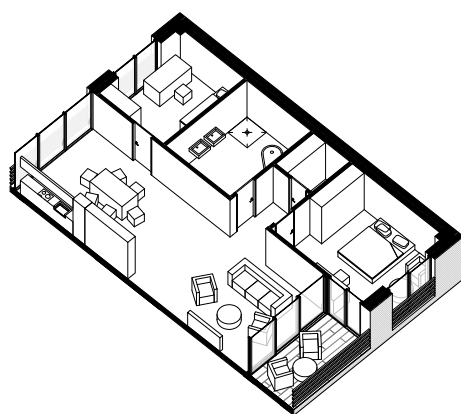
Apartments



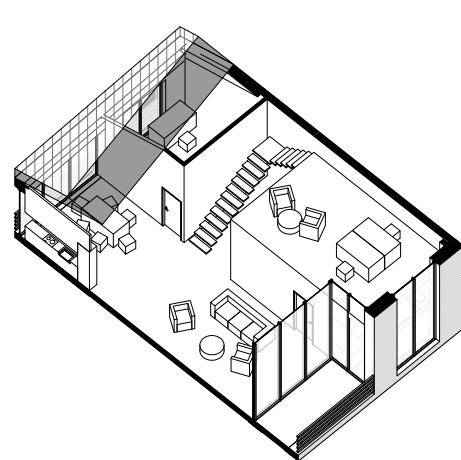
33 m²
1 bedroom
1 living room / kitchen
1 bathroom / wc



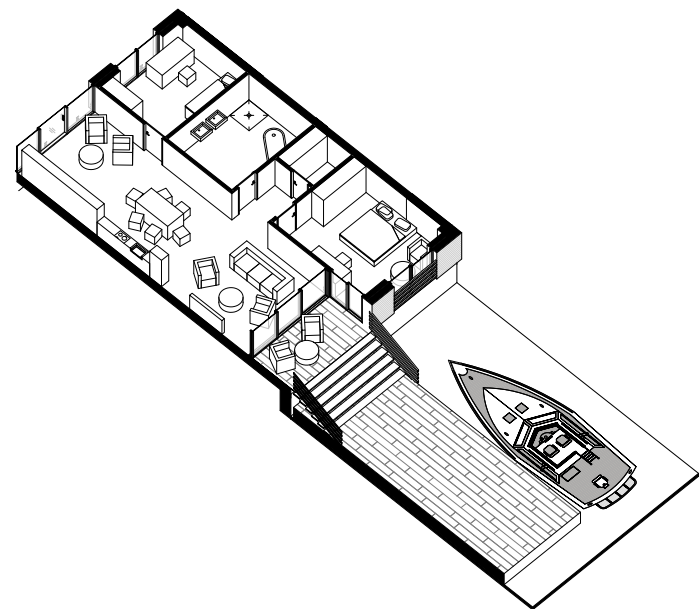
45 m²
bedroom
living room / kitchen
bathroom / wc
outside terrace



95 m²
2 bedrooms (possible 3)
living room / kitchen / dining room
bathroom / wc
outside terrace



120 m²
2 bedrooms (possible 4)
living room / kitchen / dining room
mezzanine floor (office/bedroom/lounge)
bathroom / wc
outside terrace & boat platform



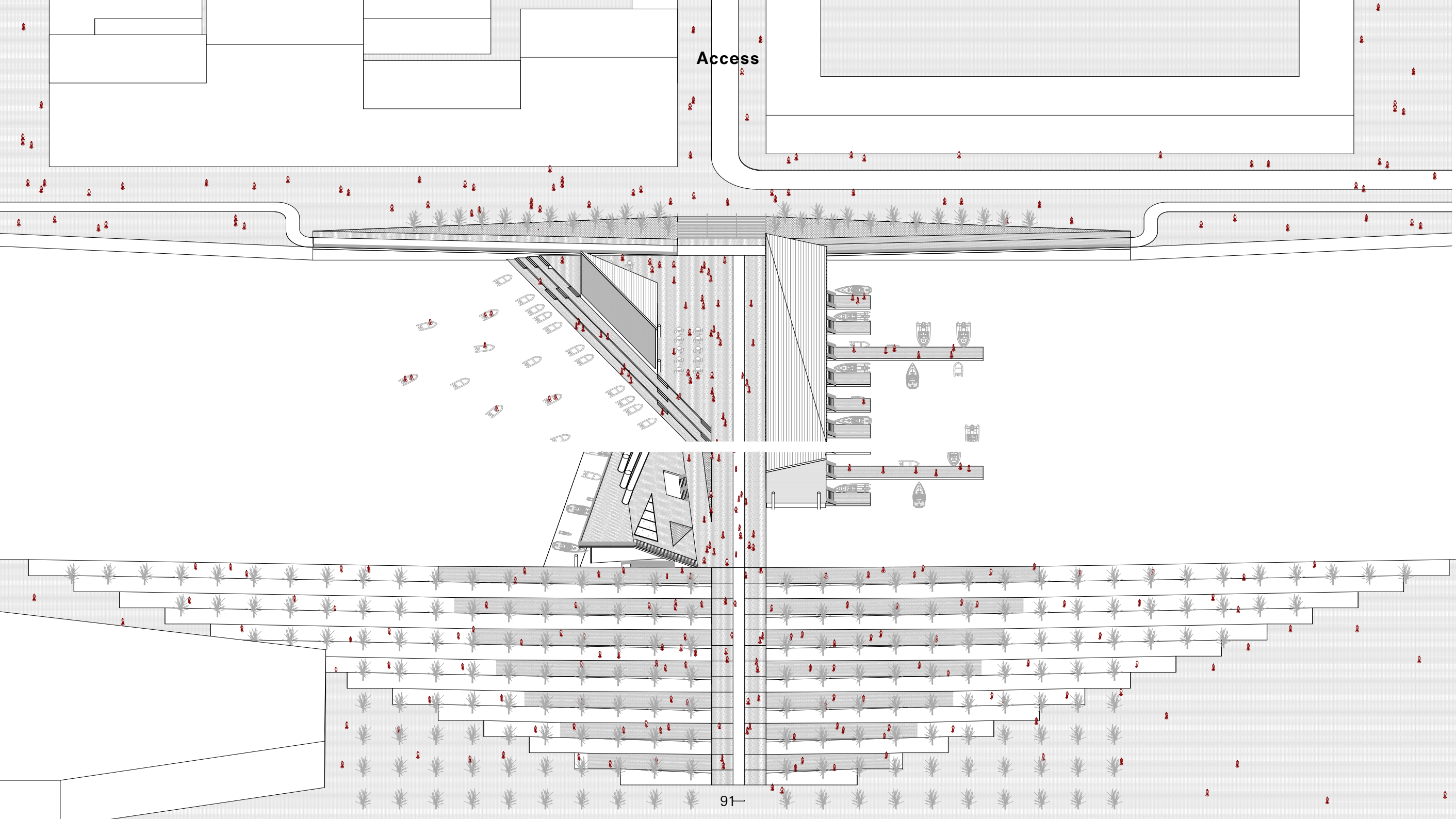
95 m²
2 bedrooms
living room (double height) /
kitchen / dining room
bathroom / wc
outside terrace
mezzanine

Top floor living room



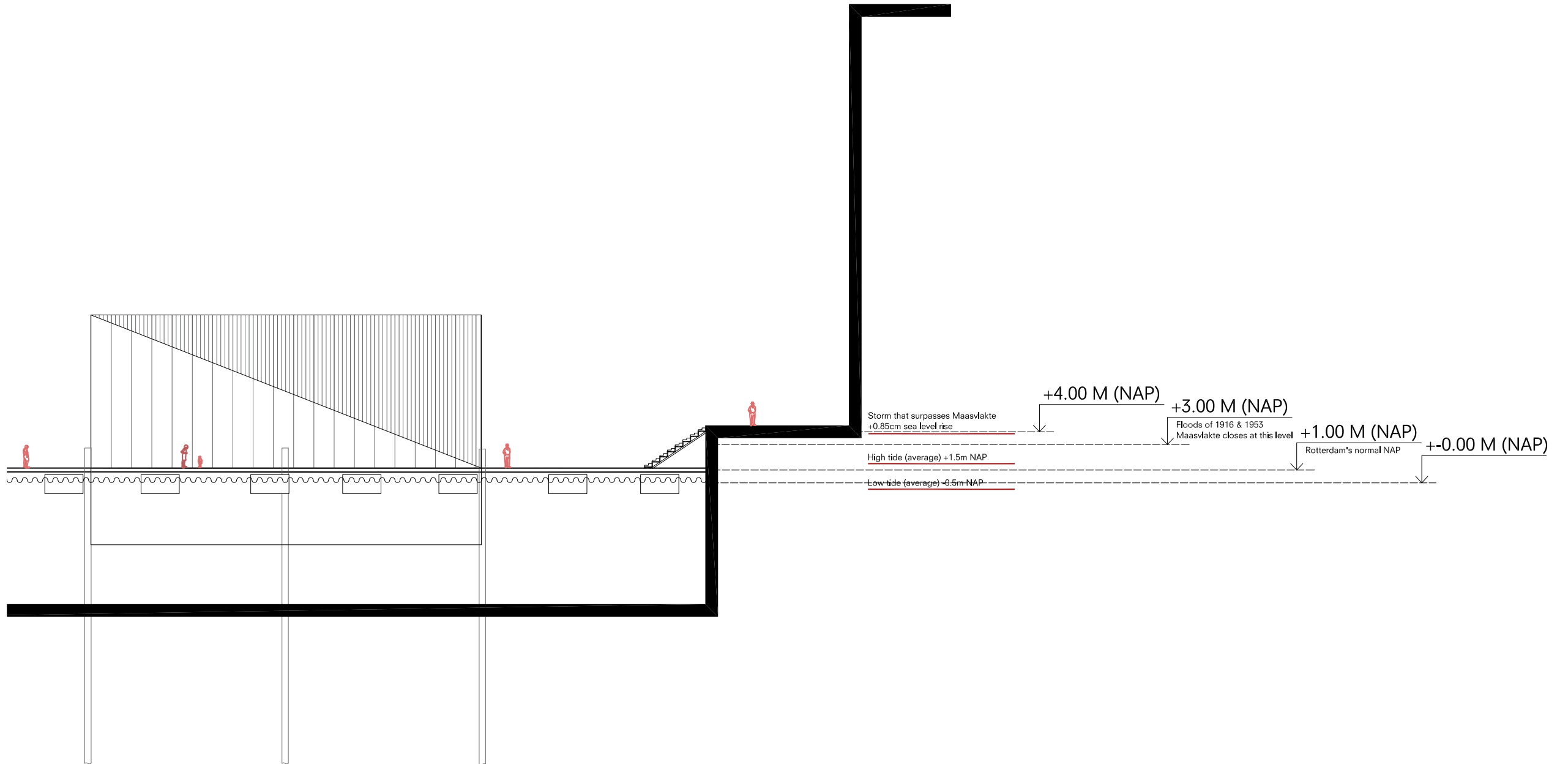
Private port - extension of the ground floor living rooms





Access

Water levels scehme



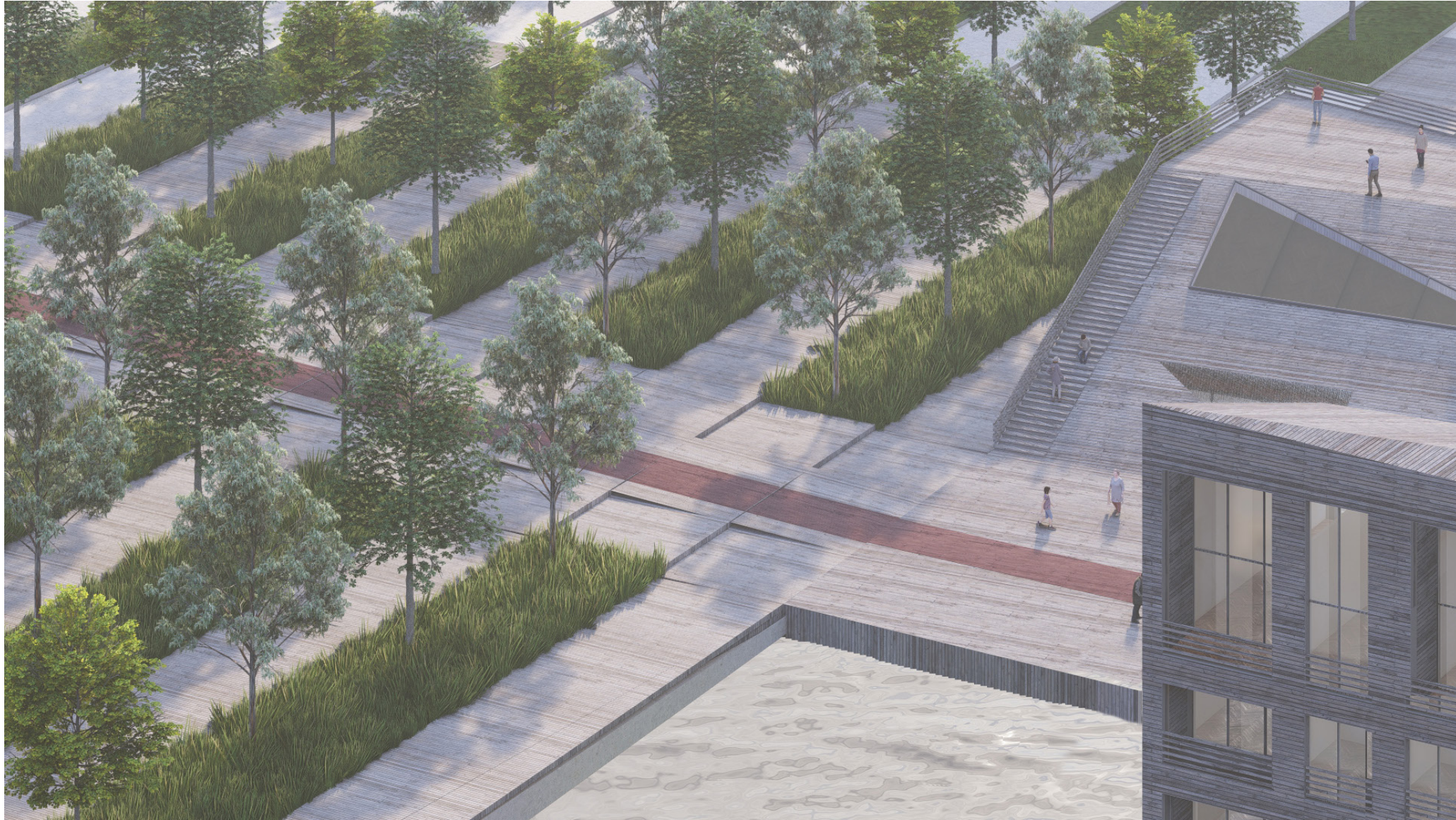
Low tide



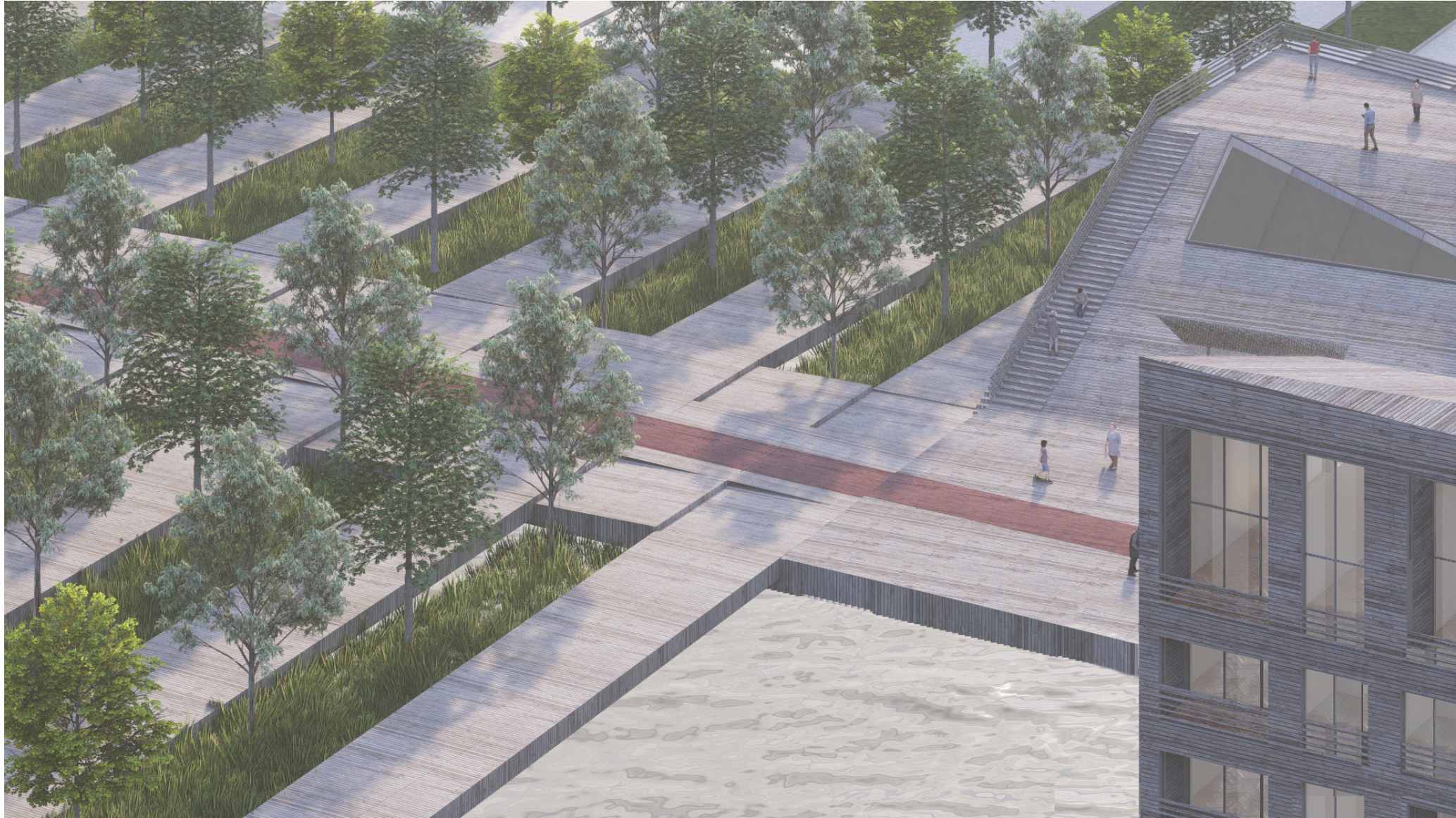
High tide



Low tide



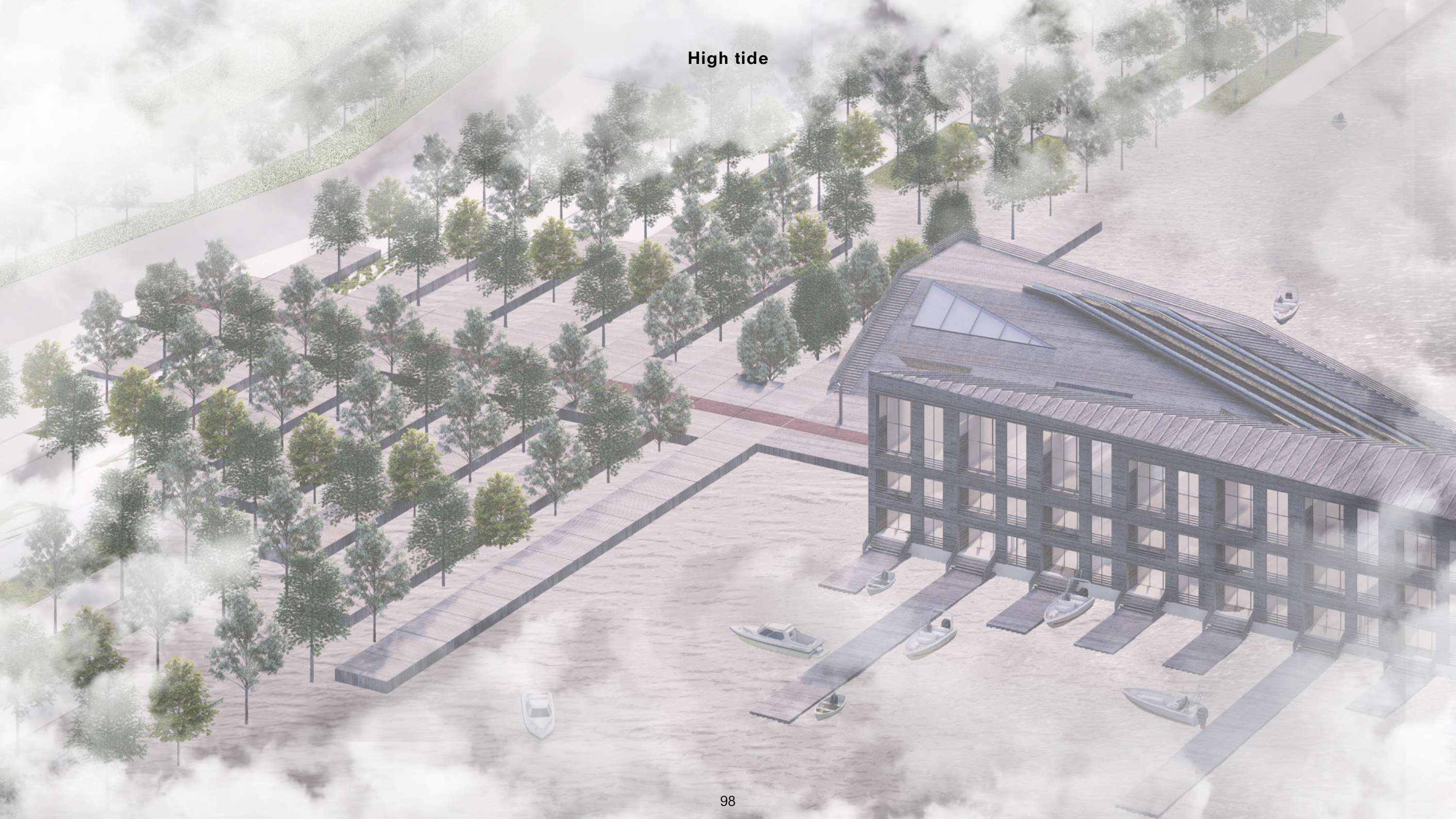
High tide





Low tide

High tide



Southern bank of Maashaven
Current condition

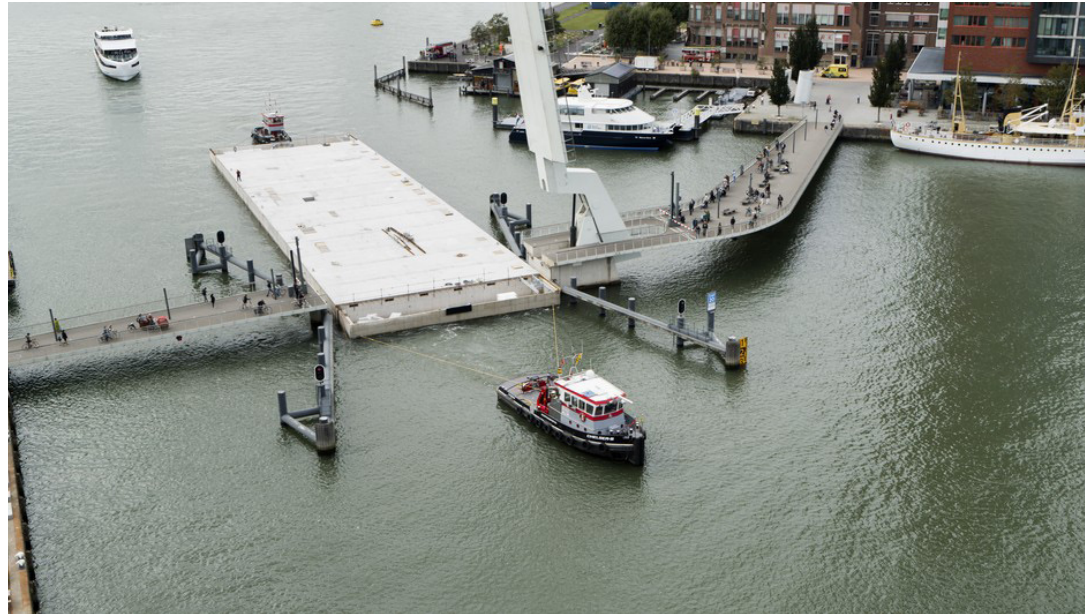


**Southern bank of Maashaven
Tidal park - access to the bridge**

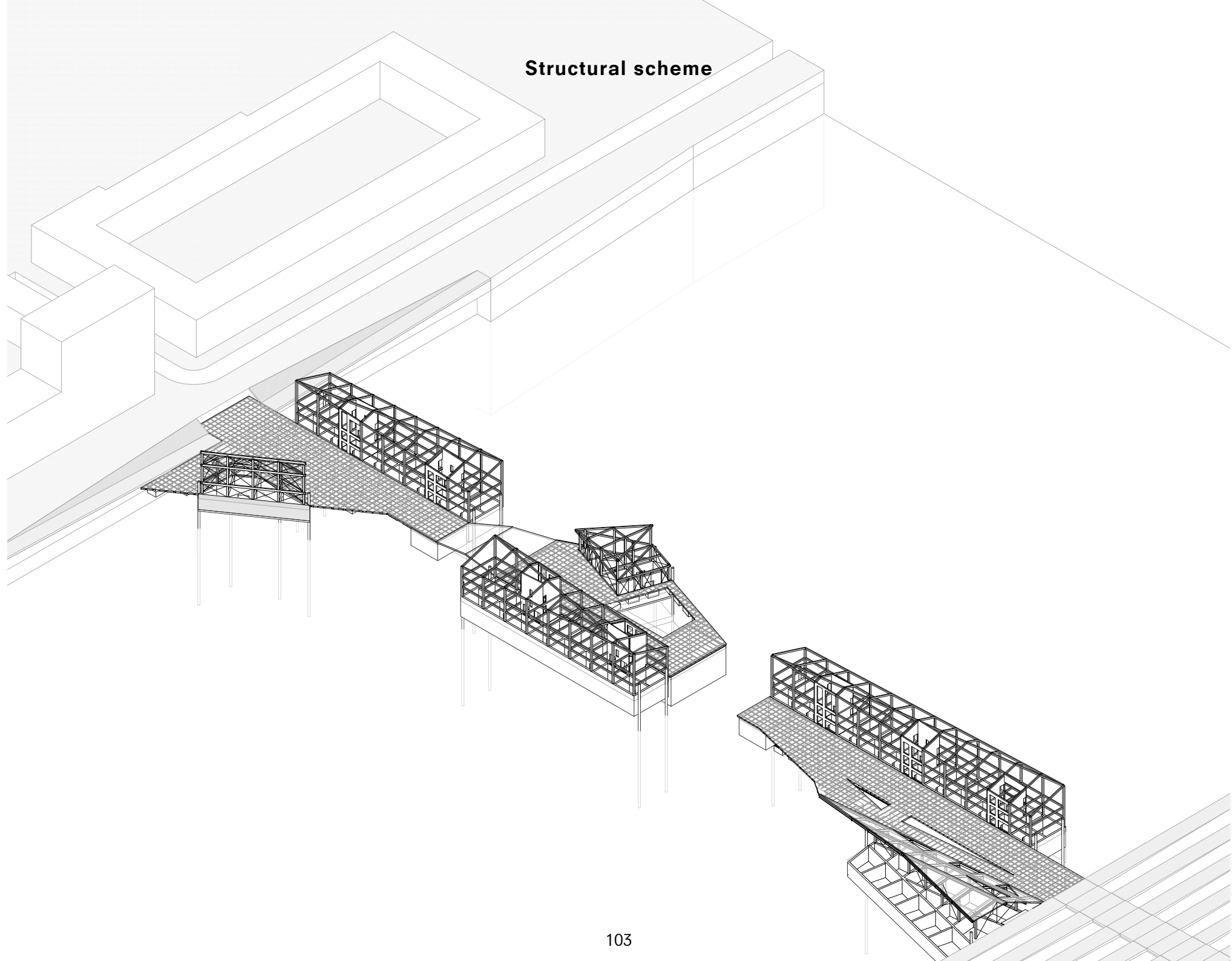


Building Technology

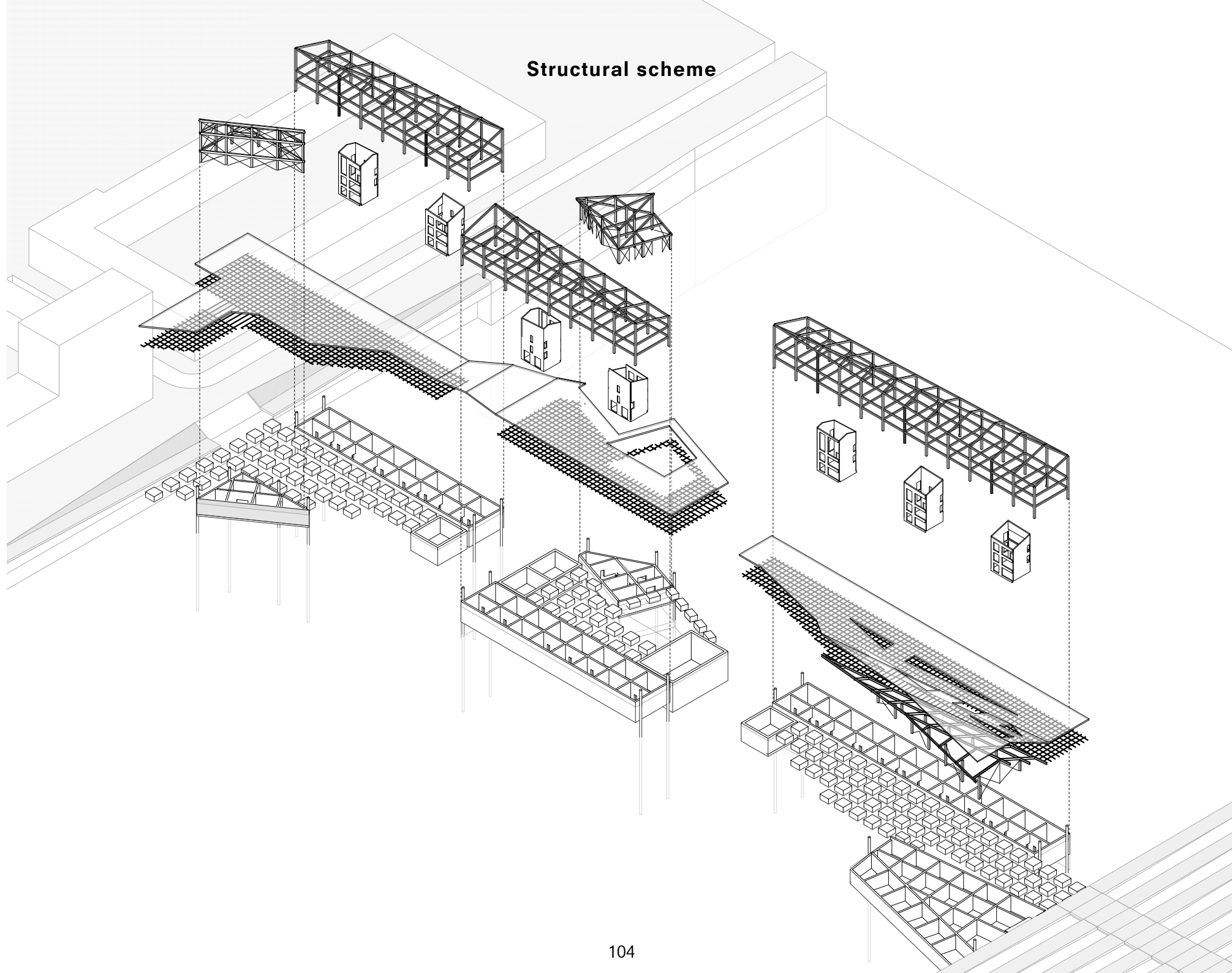
BT reference



Structural scheme



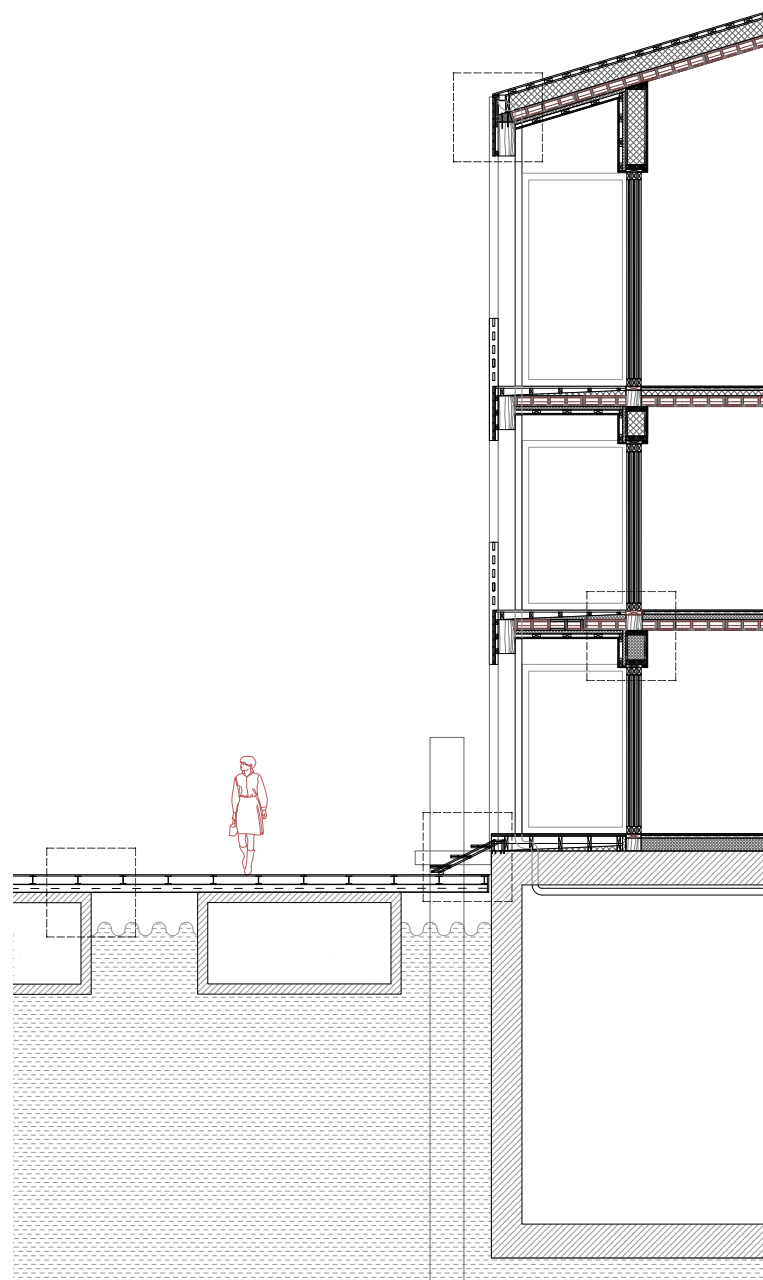
Structural scheme



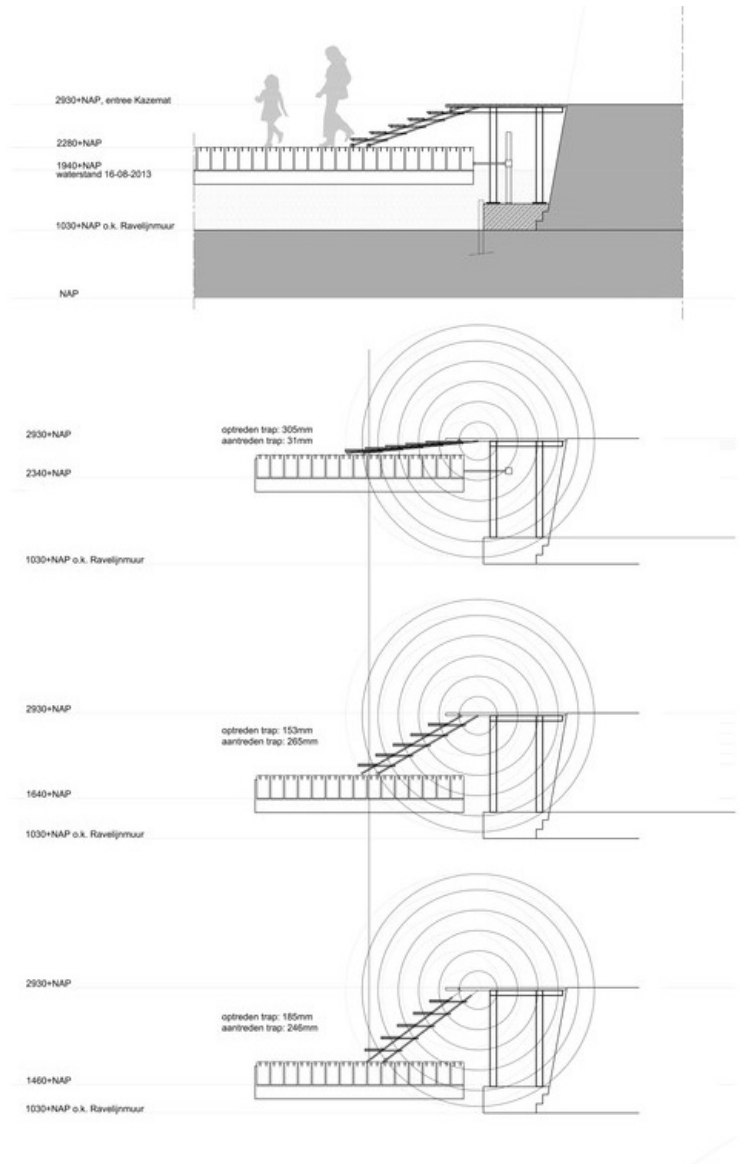
FACADES



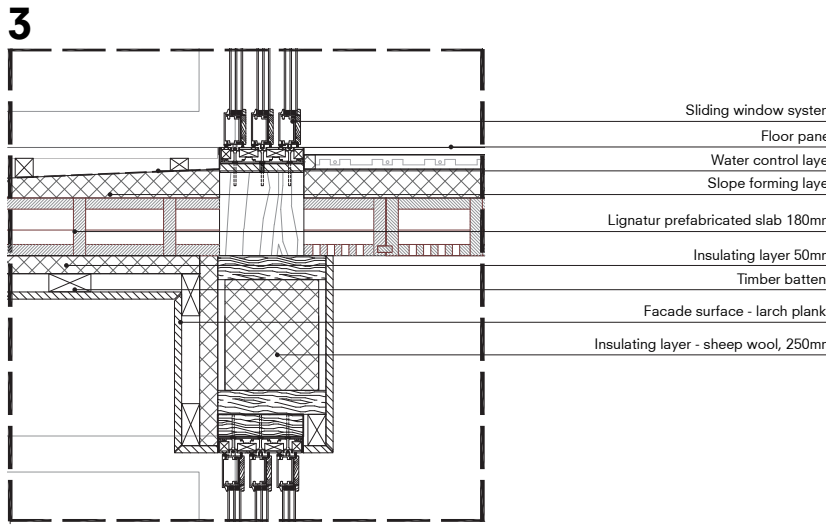
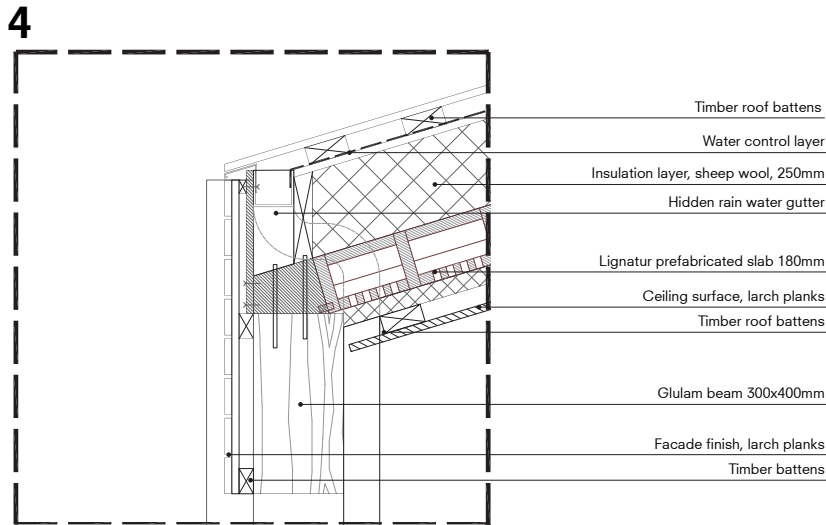
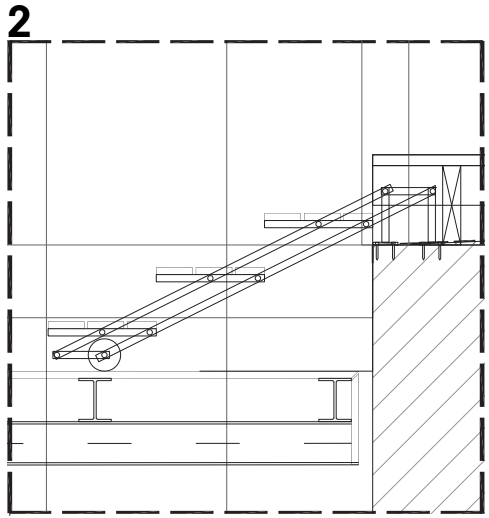
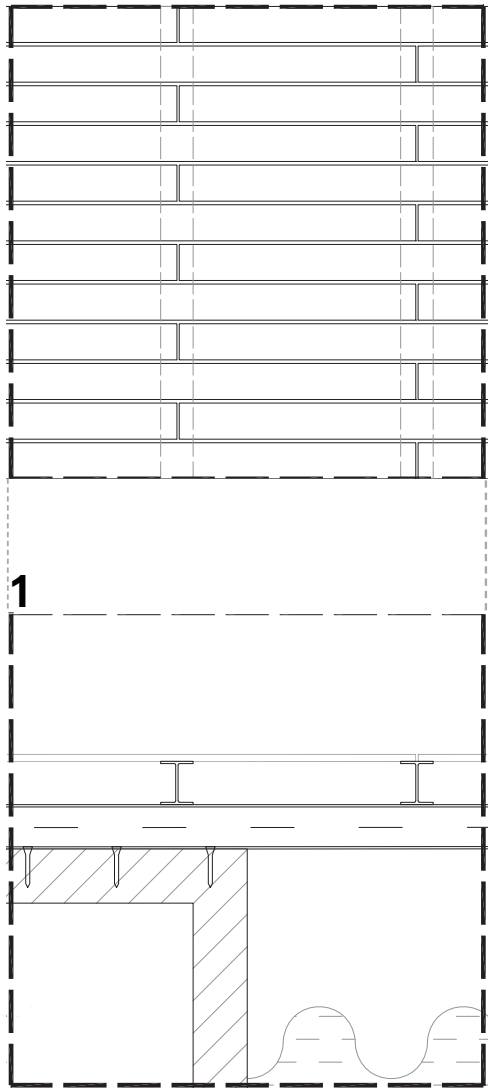
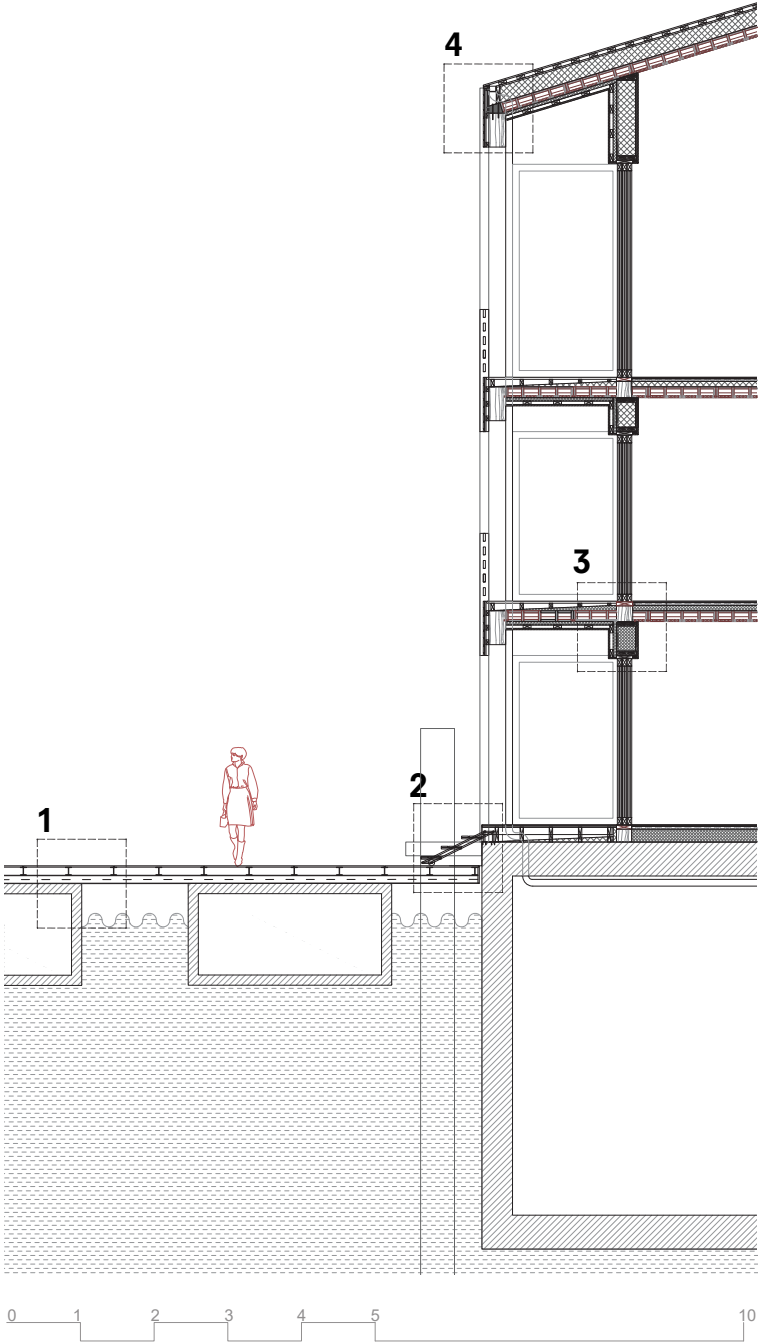
Exterior envelope fragment 1:20



ADAPTIVE STAIRS - REFERENCE



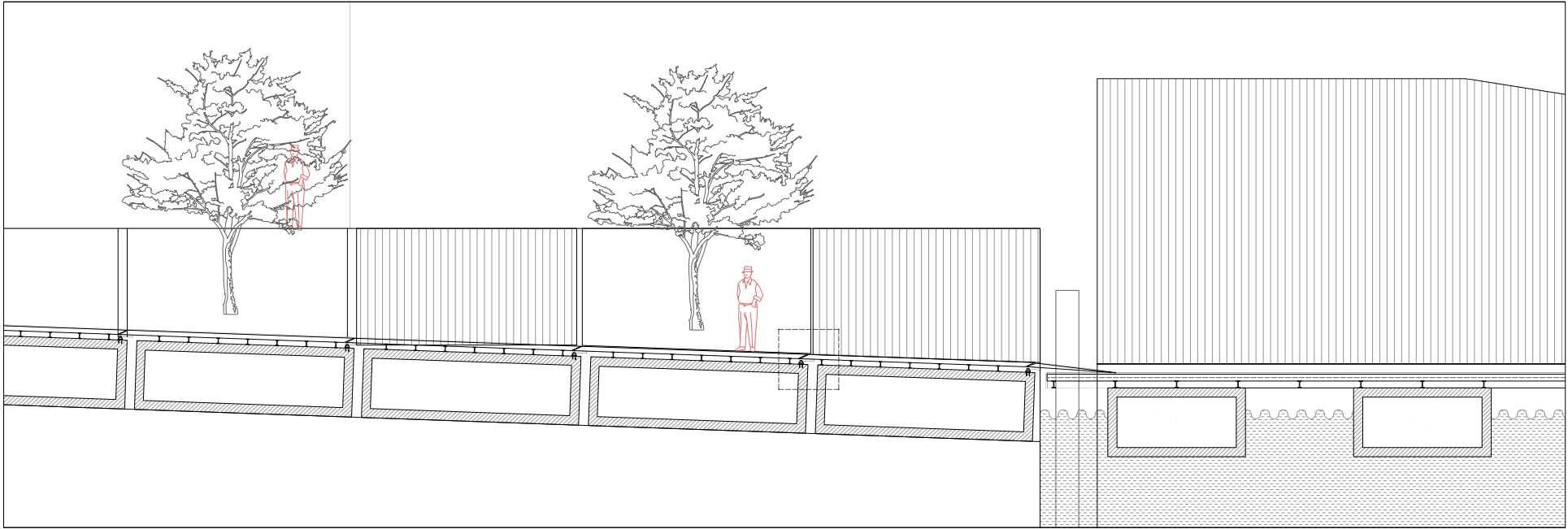
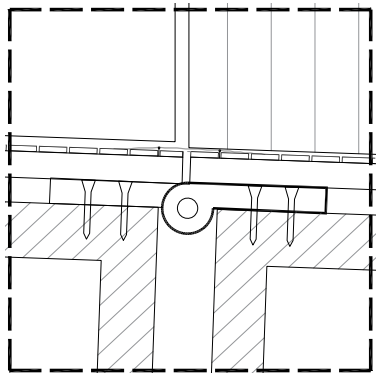
Details 1:5



Floating bridge - reference



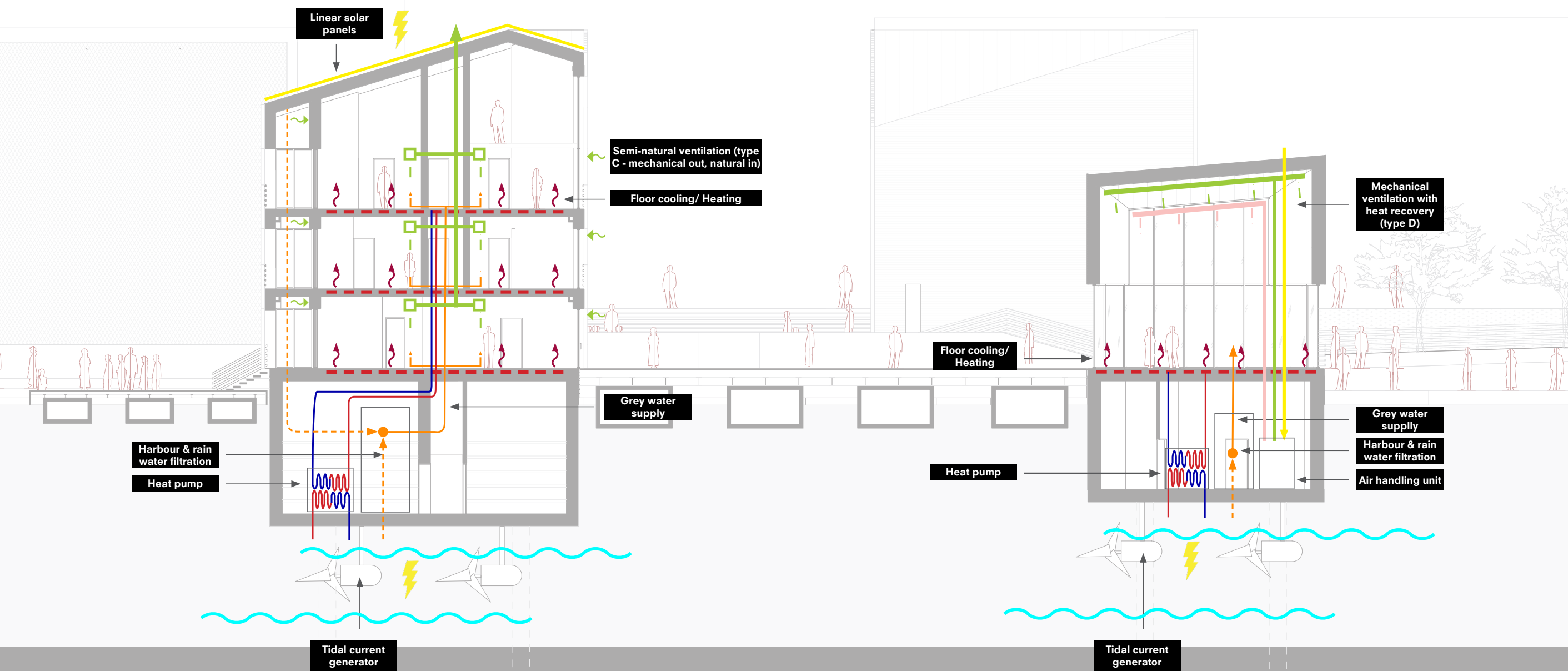
Details 1:5



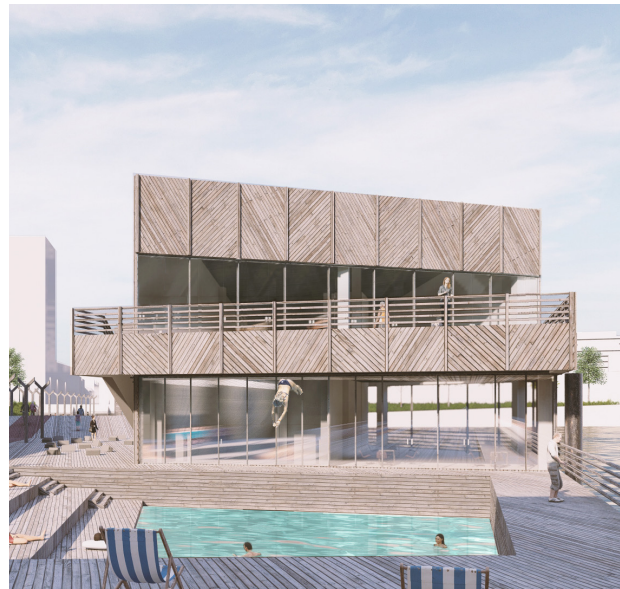
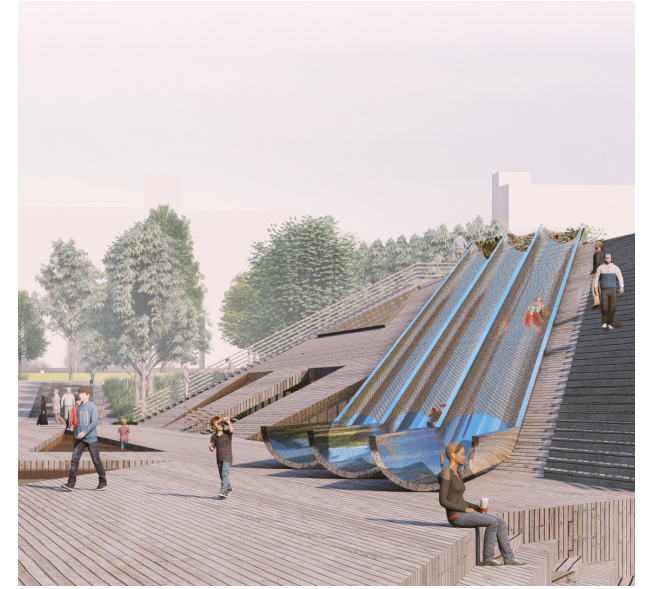
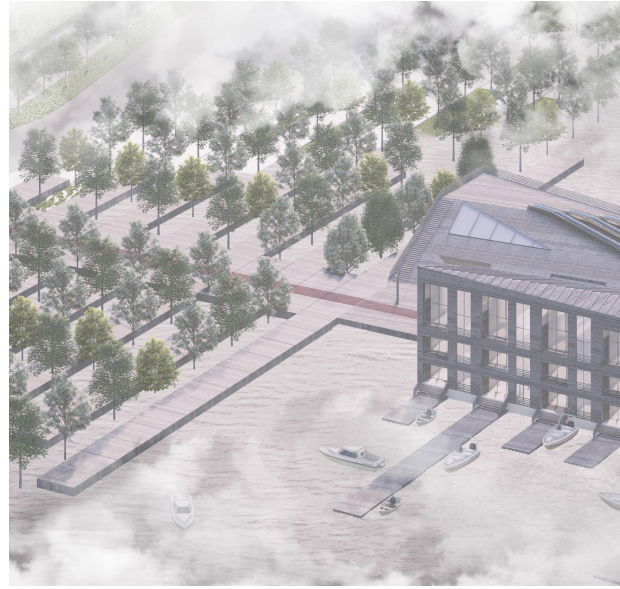
Building performance during flood



Climate system



Conclusions



THANK YOU.

