

Celebration as Revolution

Transformation of Waterworks to Public Bath

The Design Book
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Content

Chapter 01

Celebration as Revolution The Political Context of Copenhagen

Chapter 02

Waterworks as Public Bath The Historical Context of Waterworks Plant

Chapter 03

The Collective Bath Reappropriation of Boilerhouse

Chapter 04

The Experiential Bath Reappropriation of Pumphouse



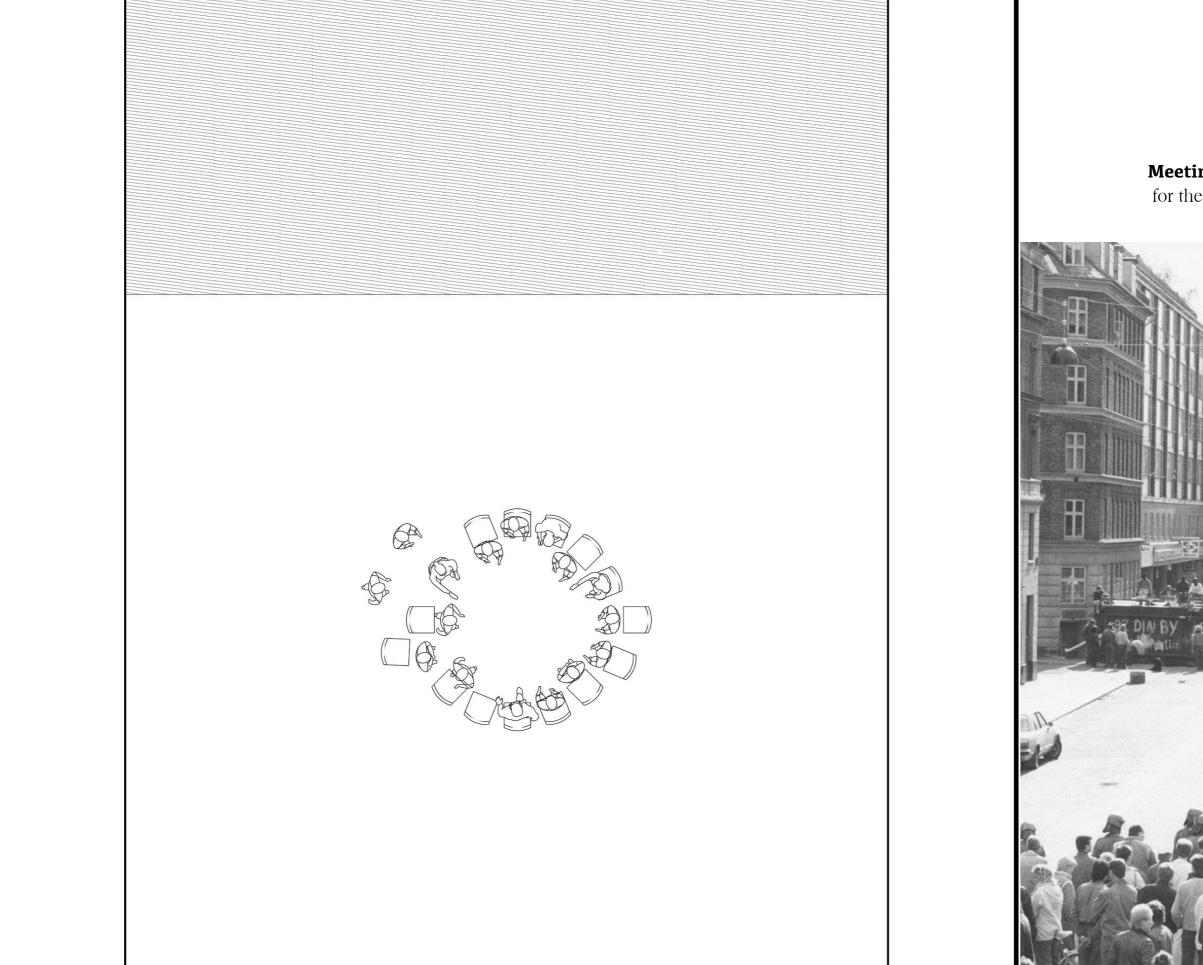
Chapter 01

Celebration as Revolution

from Workers' Movement to Copenhagen's Largest Street Festival

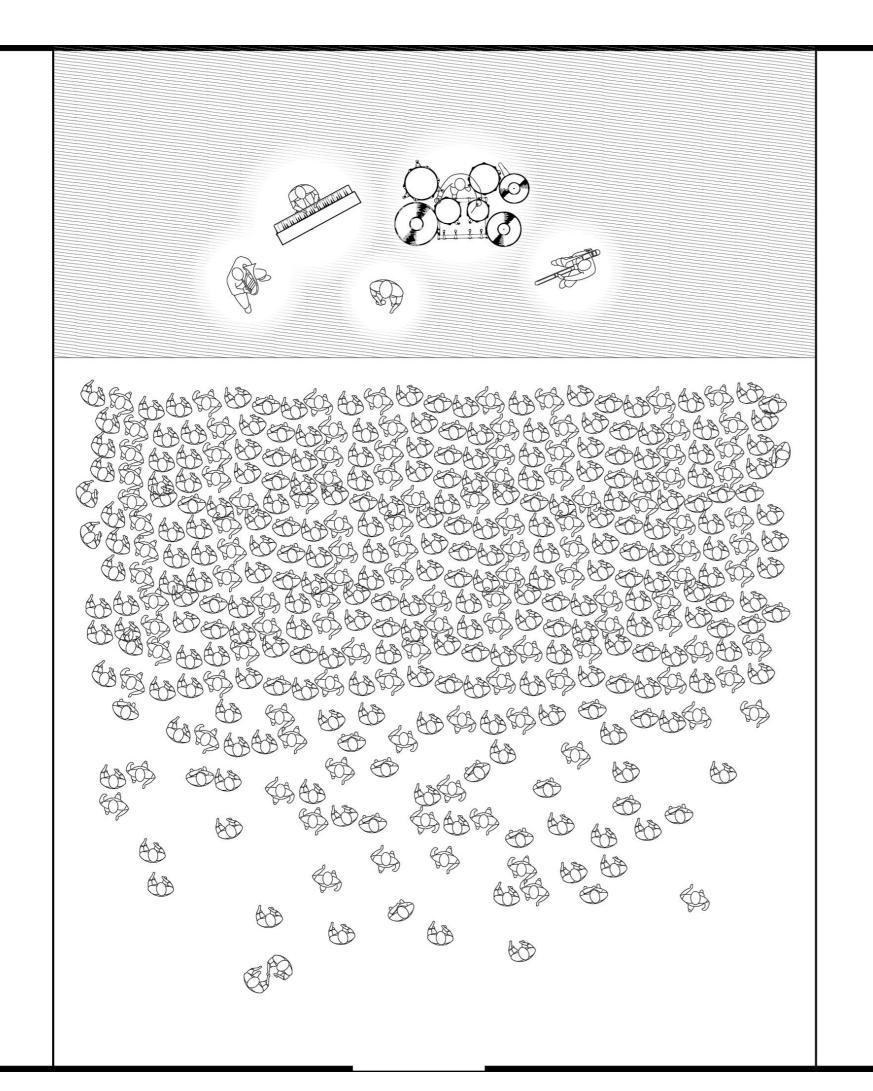
The workers fight lasted until 2008, when Danish government was forced to let the movement take possession of a new building. The street life and night culture rooted in such a movement.

"Distortion — A Celebration of Copenhagen Nightlife" was born in 1998 for a one-night party in Tivoli, Copenhagen.



Meeting in Youth House for the Battle of Ryesgade





Celebration for Friday Victory

"Too good to be true! More than a thousand people scream in victory. Everyone rushes to the door.

A party has started. This is Friday. We hold the house until the cops come back to evict us Monday morning. In just forty-eight hours, the house is transformed into a place with electricity, a concert hall, workshops, and info points. People work on reinforcing the barricades constantly, build chairs and tables in the workshop, and bring in furniture from waste dumps and food from the local supermarket's dumpster. We held it for only forty-eight hours, but in that short period of time we witnessed the amazing results of what can happen when people work together.."



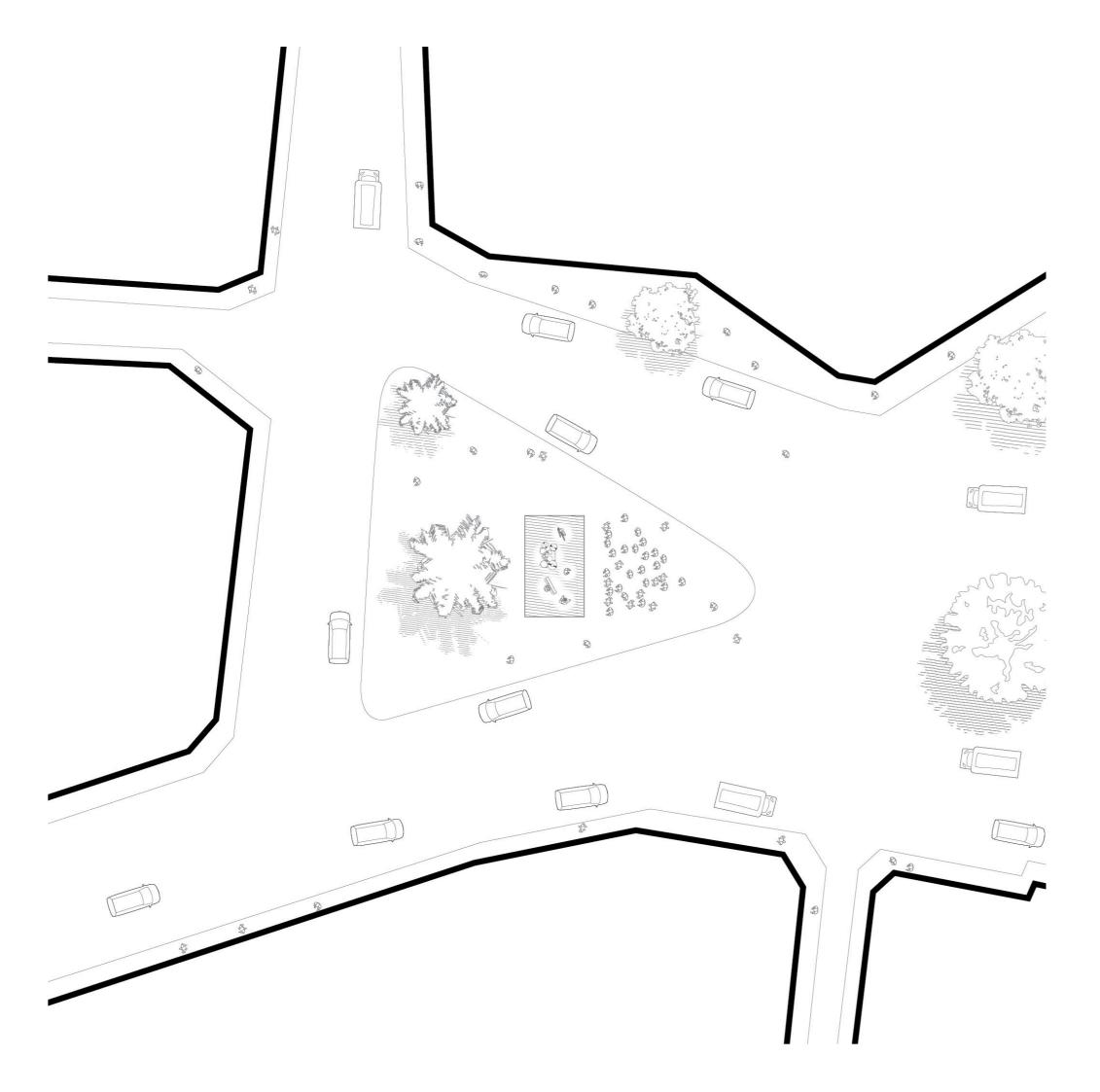
The Celebration in the Youth HouseOrigin of Urban Celebration



Pumphouse in the Site Copenhagen's Waterworks Outdated



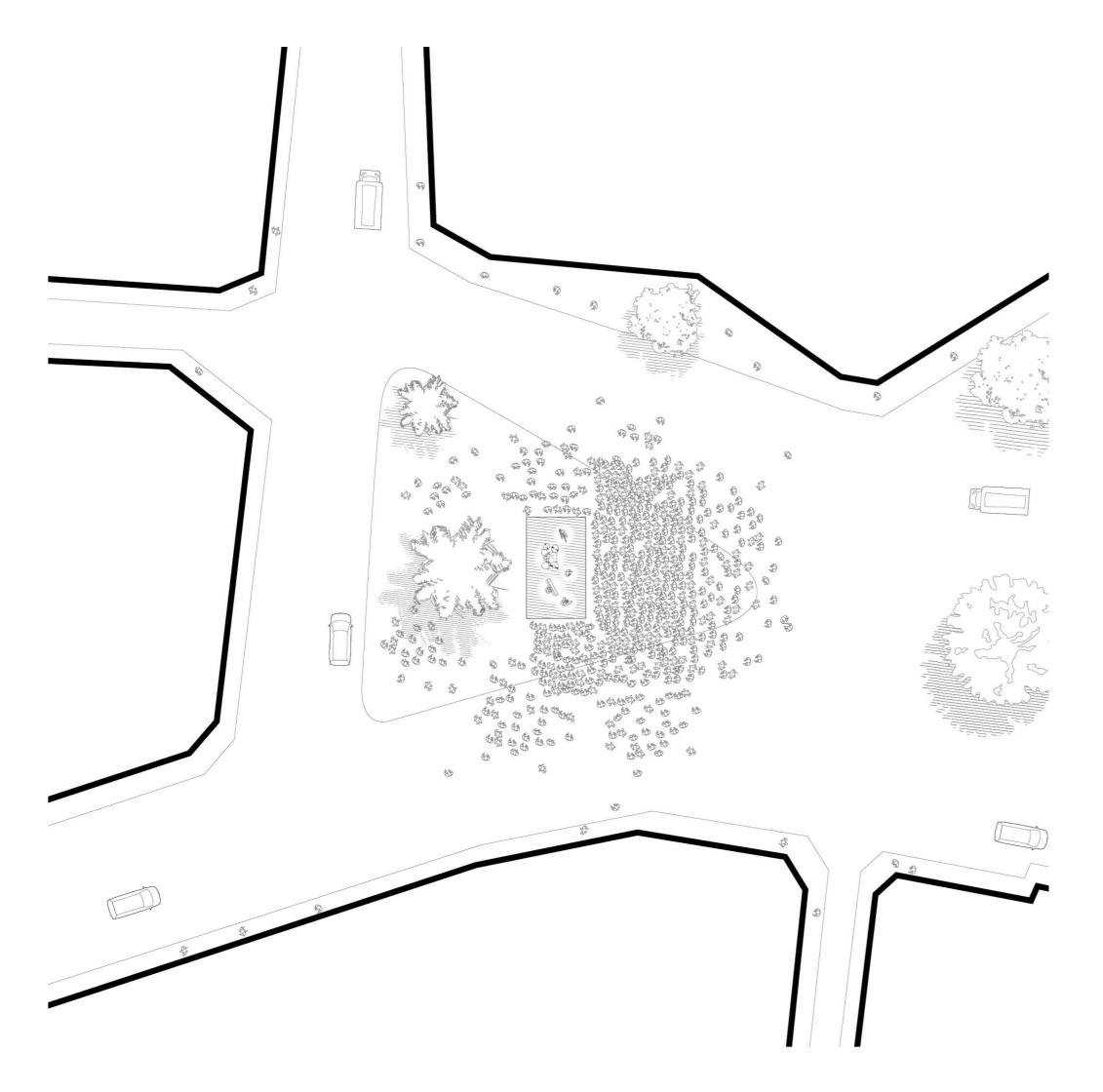
Pumphouse in the SiteRenovated as Music Venue Featuring Urban Subculture



Founding of Distortion

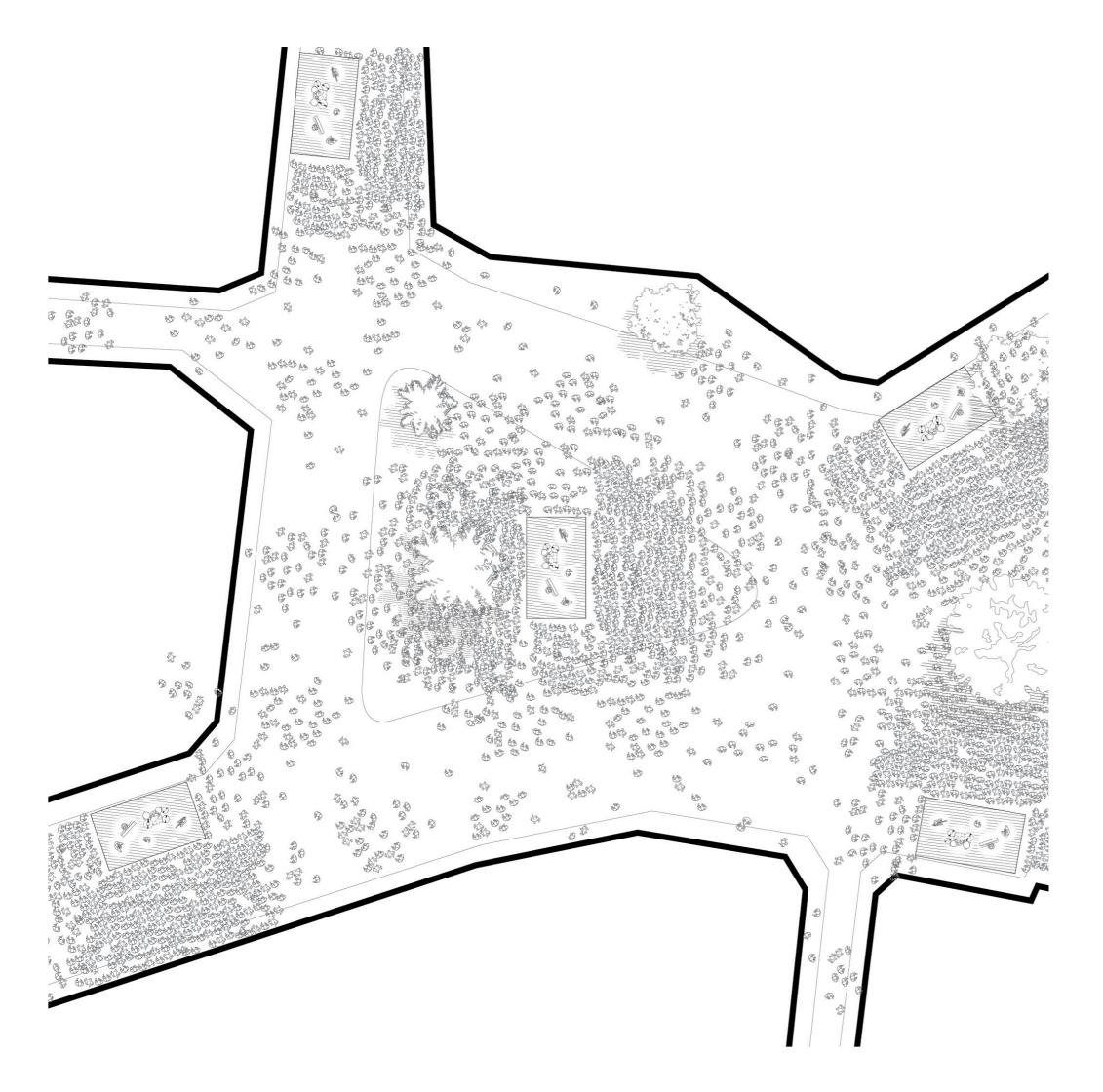
The workers fight lasted until 2008, when Danish government was forced to let the movement take possession of a new building. The street life and night culture rooted in such a movement.

"Distortion — A Celebration of Copenhagen Nightlife" was born in 1998 for a one-night party in Tivoli, Copenhagen.



The Idea of Ultra-Mobility

The idea of ultra-mobility brought the party to the street. It was small, chaotic, and not fully-legal activity. But after gathering 2.000 guests at a single street party, Distortion saw its victory and won the legitimation from the Copenhagen City Council and becomes Copenhagen's largest festival,



Legistimation

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The Distortion Festival in Street

Celebration as Revolution





Pumpehuset Summer Concert



Map of Subculture Clusters

The Marginalized Area



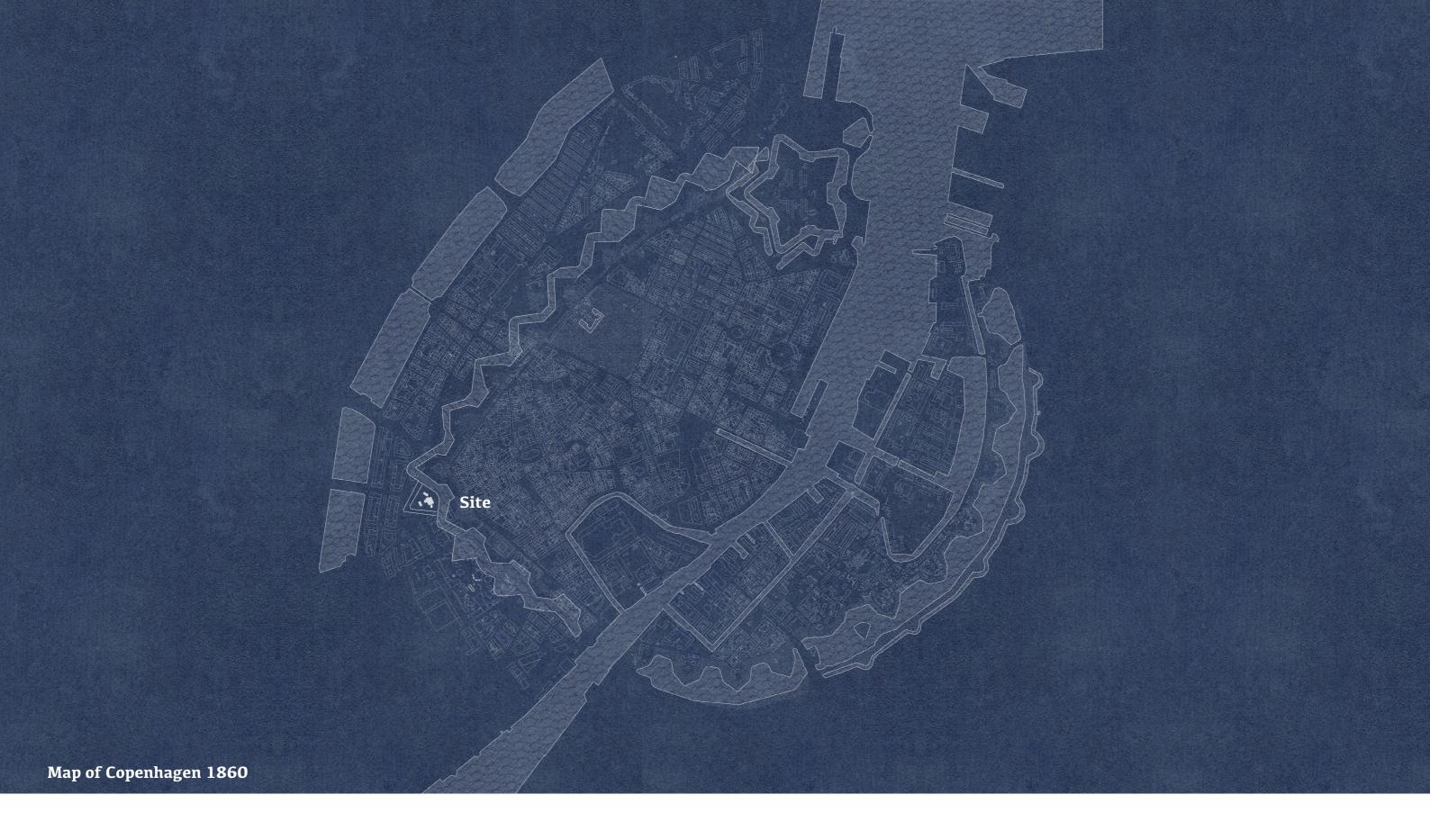
Map of Distortion

Marching Towards Center



Location of the Site

New Possibility of Linking Street Events



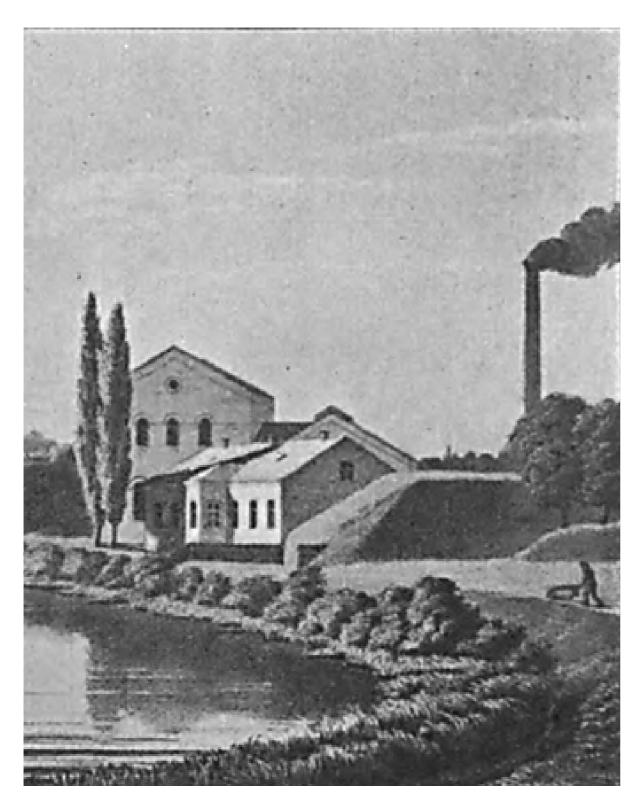
The Fortress Ring

The Urban Fabric of Copenhagen

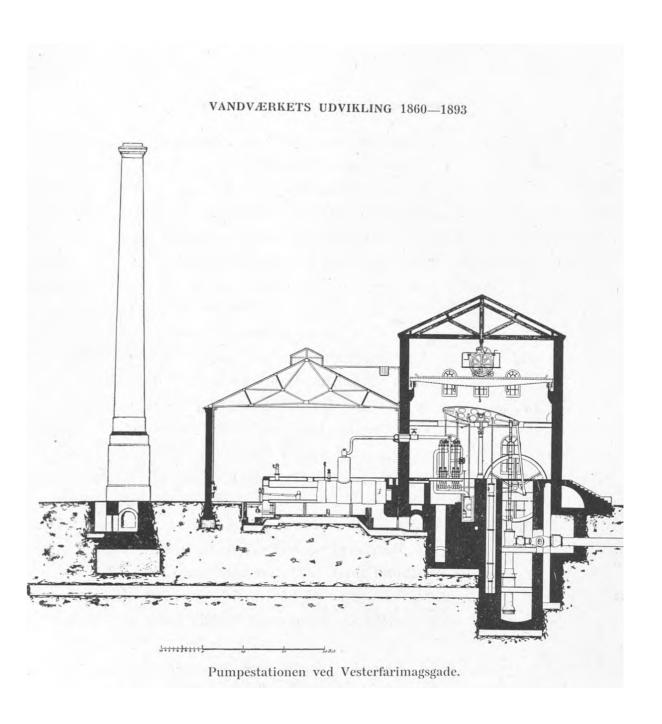


The Fortress Ring

The Public Gardens



the Waterworks Plant (1859)
View from Fortress Ring



Section of Machine House

Chimney/Boiler House/Pumphouse

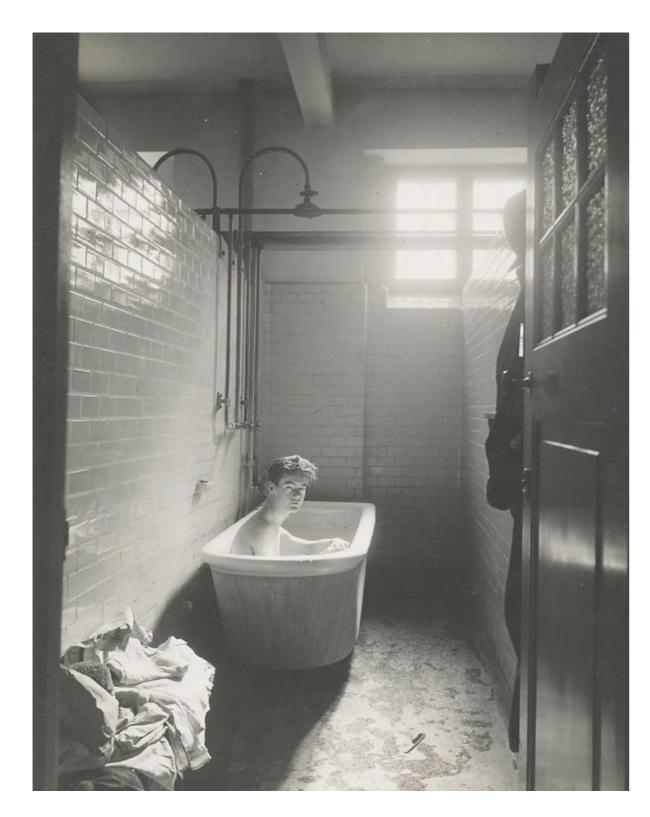


Chapter 02

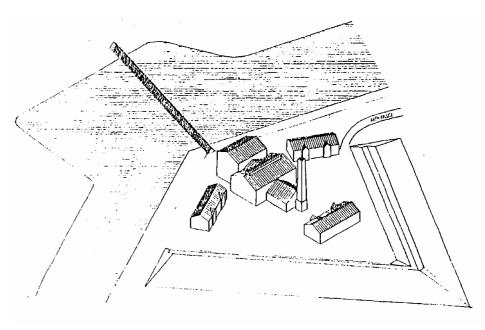
Waterworks as Bathhouse

Integration of the Cleansing Ritual with Festive Moments

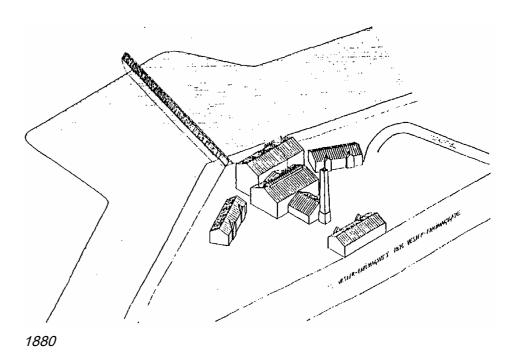
Transformattion of waterworks as Bathhouse is an idea of bringing bathing experience to the urban celebration. A combination of cleansing and celebration refers to the characteristics of this industrial monument with water and machine. It addresses the current demand of the city for more bathing facilities.



Bathhouse in CopenhagenThe Rising Concious of Hydrene

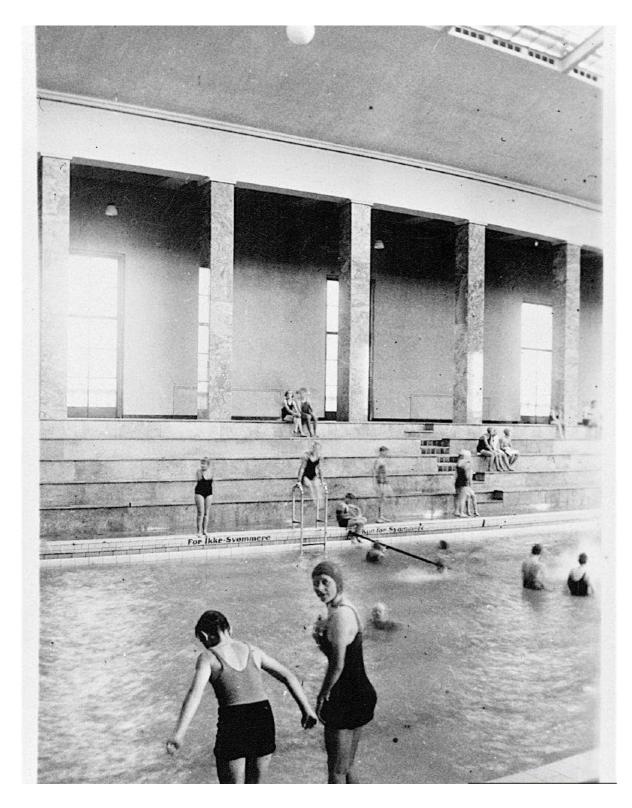


1859

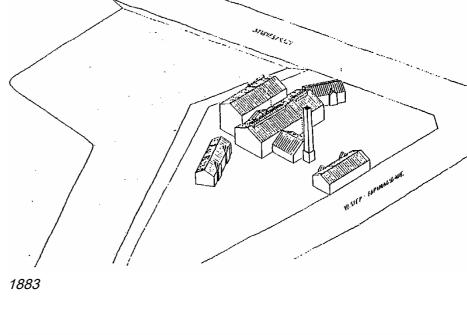


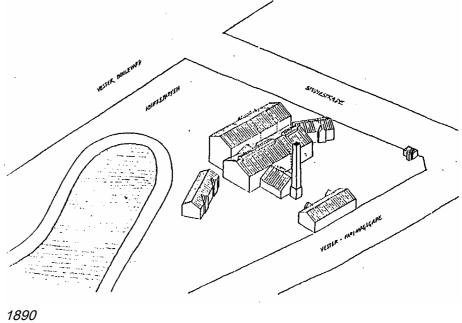
Sanitation Movement

Copenhagen's first waterworks built in 1859 First Expansion of Pumphouse in 1880



Bathing Facilities in CopenhagenConnection Established with Water





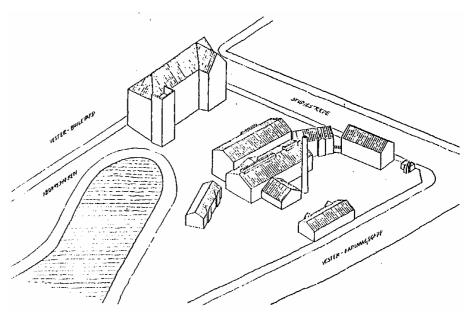
Increasing Demand of Clean Water

First Expansion of Boiler House in 1883 Second Expansion in 1890

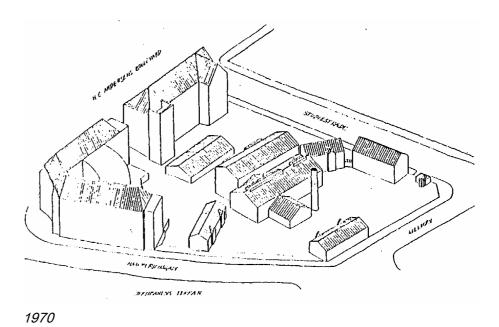


A Ban on Harbour Bath (Pollution)

Lack of Bathing Facilities between 1950-2000



1914

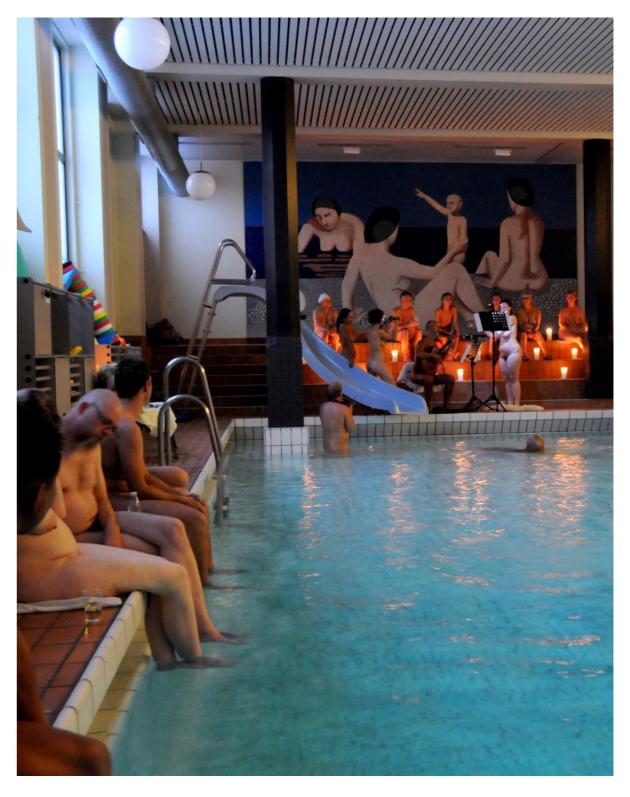


The Modernization of Copenhagen

Offices Building added in 1914 Water Disappeared in 1970



Bathhouse Reaapropriate as Social Meeting PlaceIndividual Cells Expanded to Gathering Rooms



Bathhouse Reaapropriate for Cultural EventsA Possibility of Urban Celebration





The Urban Context

1:2000 Site Model

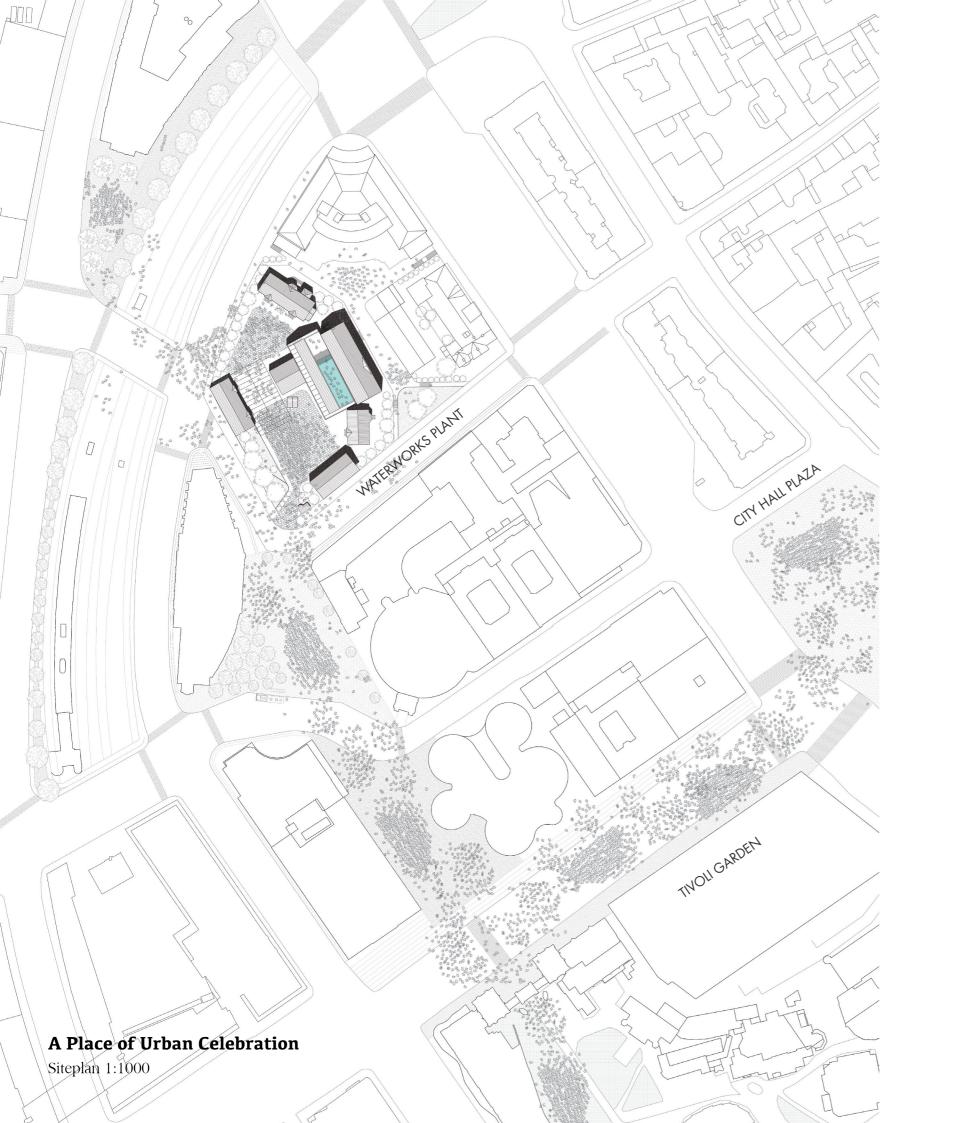




Current Program: Kindergarten, not open to Public

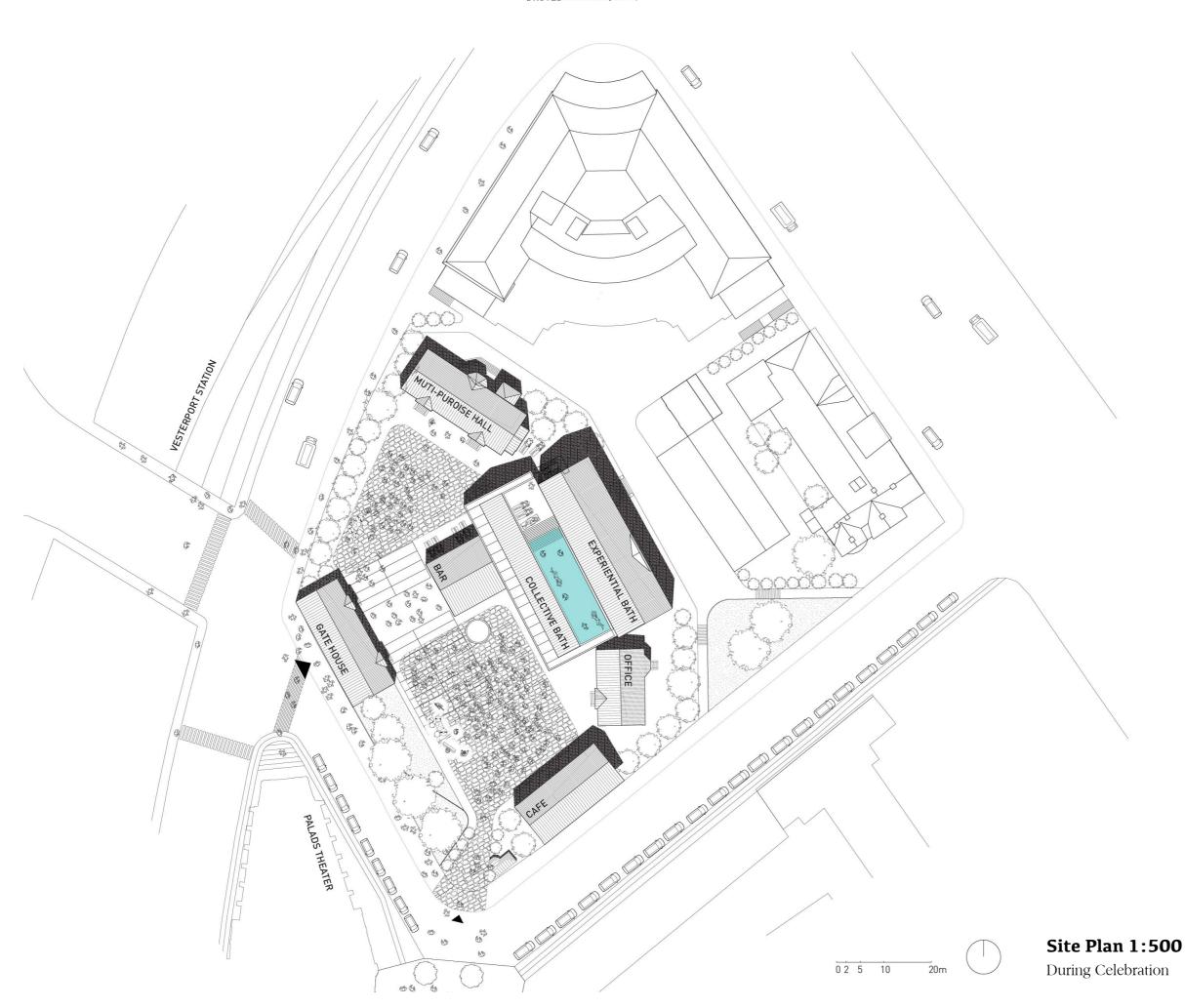


Current Program: Pumpehuset Music Venue and Garden



A Place of Urban Celebration

The site is seen as an urban link of the Distortion street events. The popularity of the subculture musical activities has proved its power of gathering massive participation. In those celebrations, in the cultural event, everyone becomes pure and transparent. That is when the transcultural moments happen.



Building Guide

1 Bar

Coal House (1859) Garage(1954) Kitchen of Kindergarten (2013)

2 Collective Bath

Boiler House (1859) Boiler House Extension(1885 -1893) Garage & Cafe (1954) Kindergarten (2013)

3 Vitality Baths

Pumpehuset (1859) Pumpehuset Extension(1885 -1893) Music Venue (1989)

4 Gate House

Residence of Lighthouse Keeper (1859) Residence of Engineer (1880) Kindergarten (2013)

5 Multi-purpose Hall

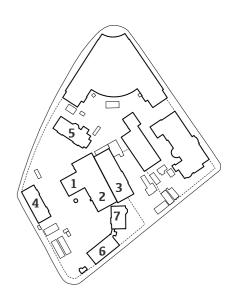
Residence of Engineers (1859) Director's Residence (1880) Kindergarten (2013)

6 Cafe

Office (1900)

7 Admin

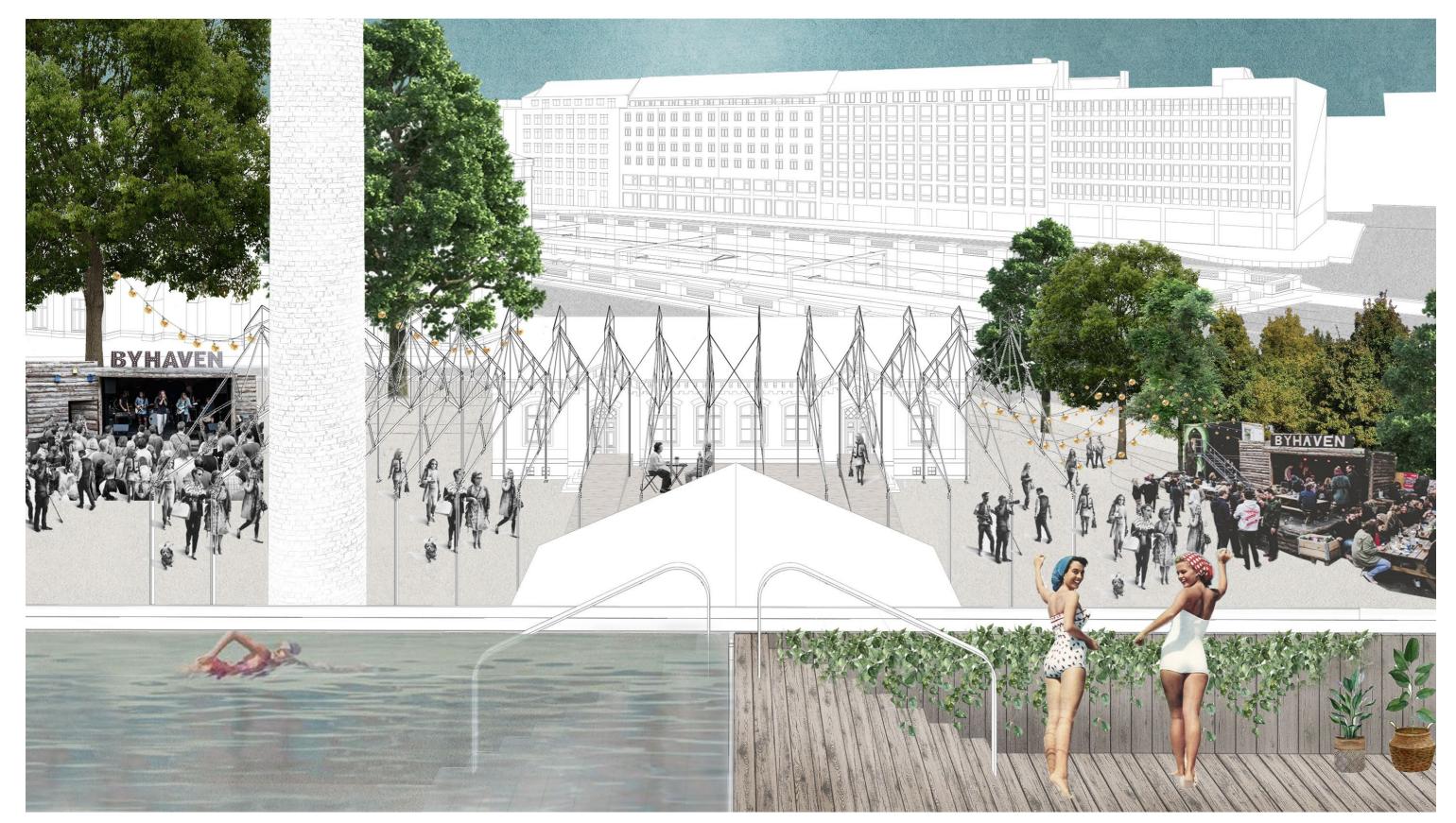
Office (1900)





A Place of Pleasure Relates to Water

A Fun Bathing Place



Bathers Participating Urban Celebration

View from the Roof



Location of Outdoor Pool

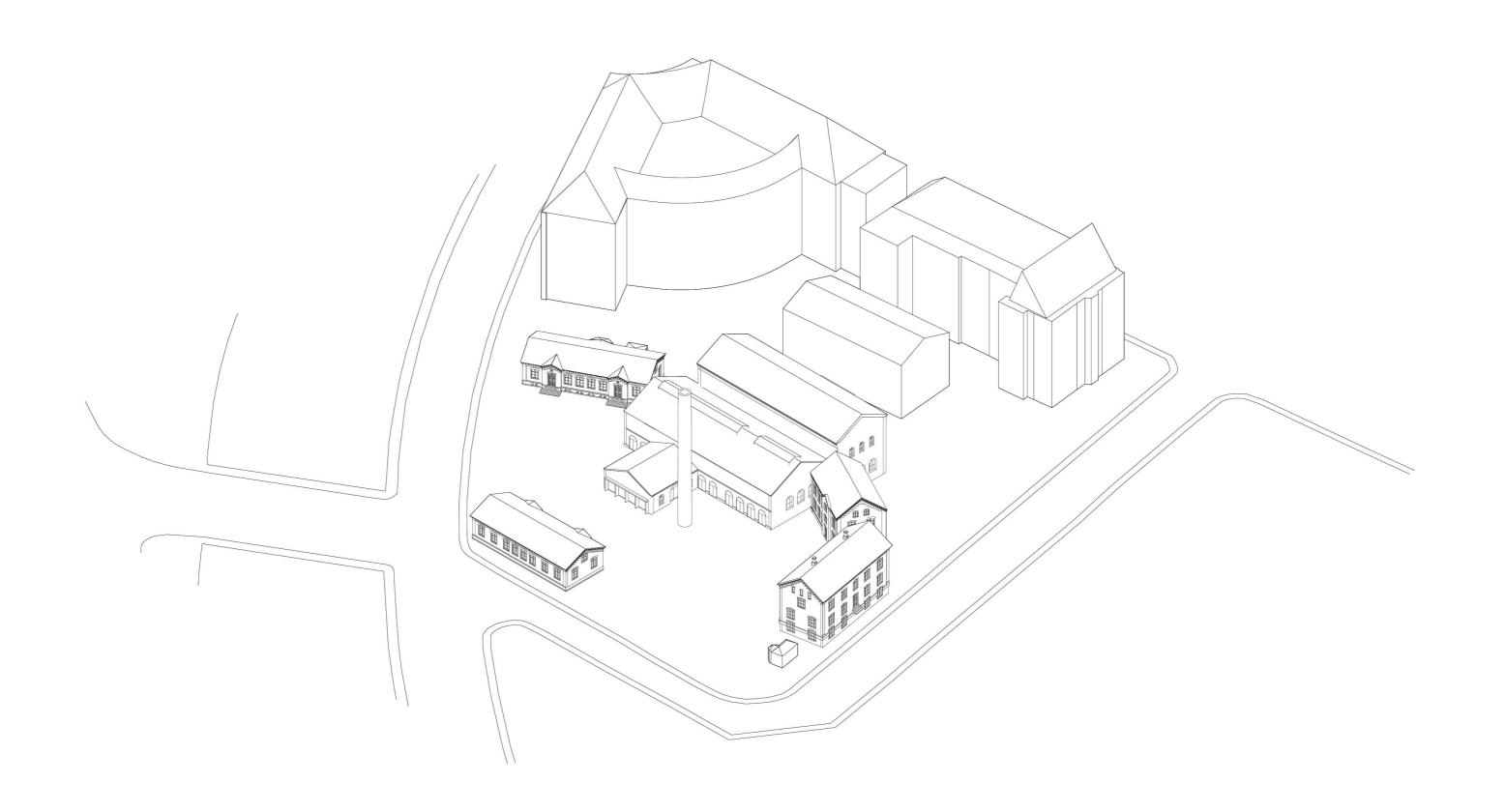
1:250 Section Model Study



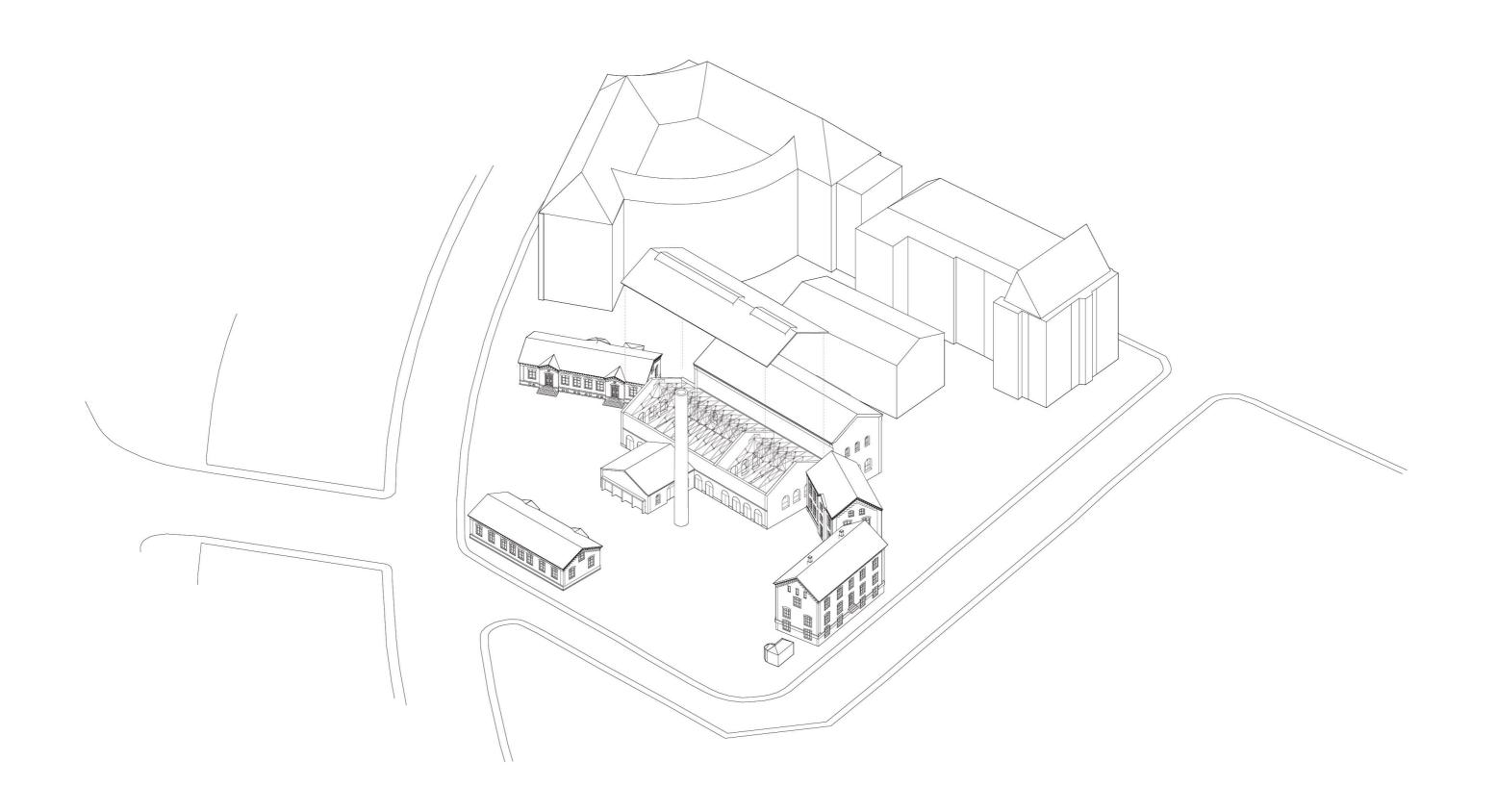




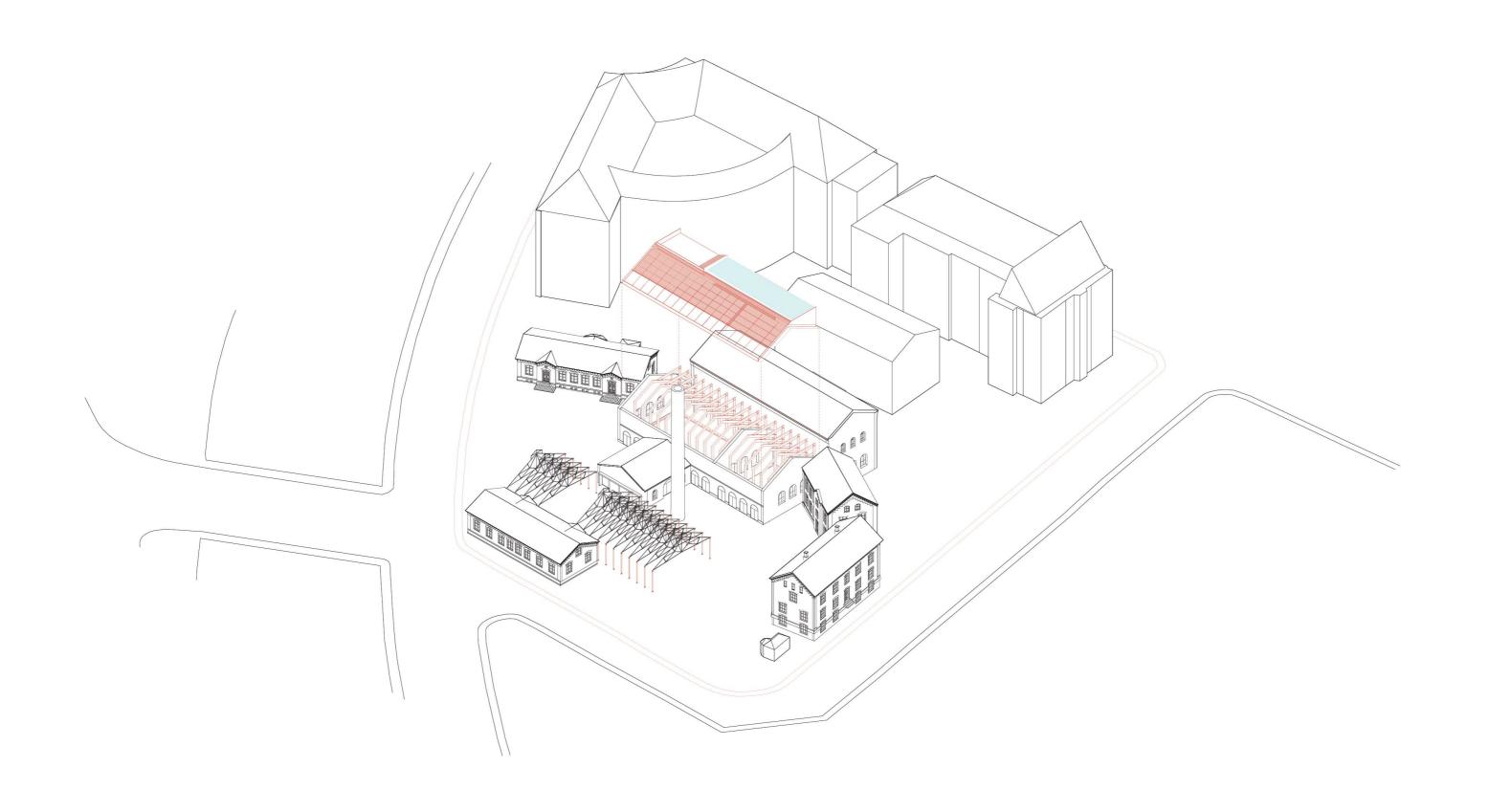
Volumatric Study 1:500 Site Model

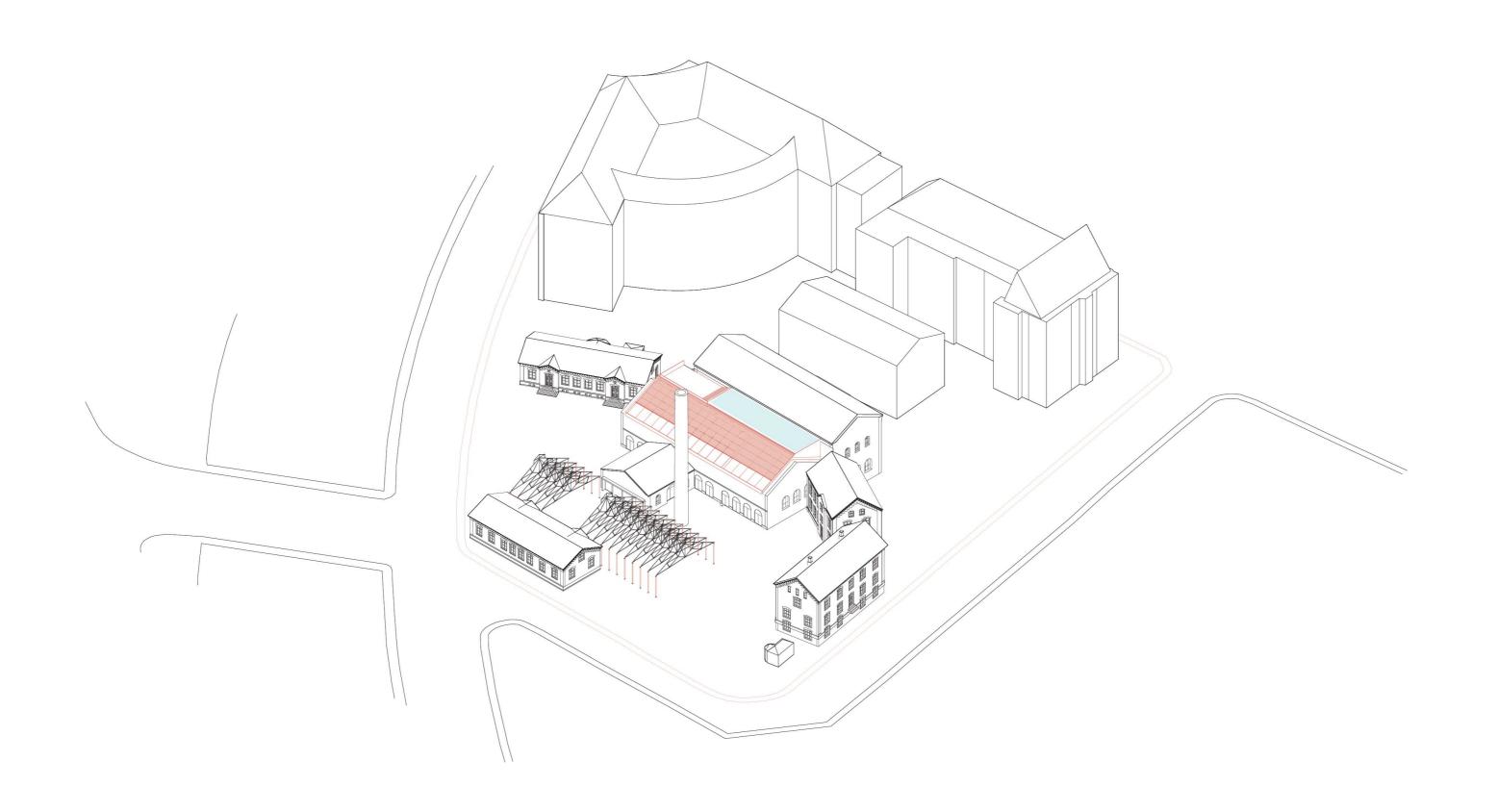


Current Massing

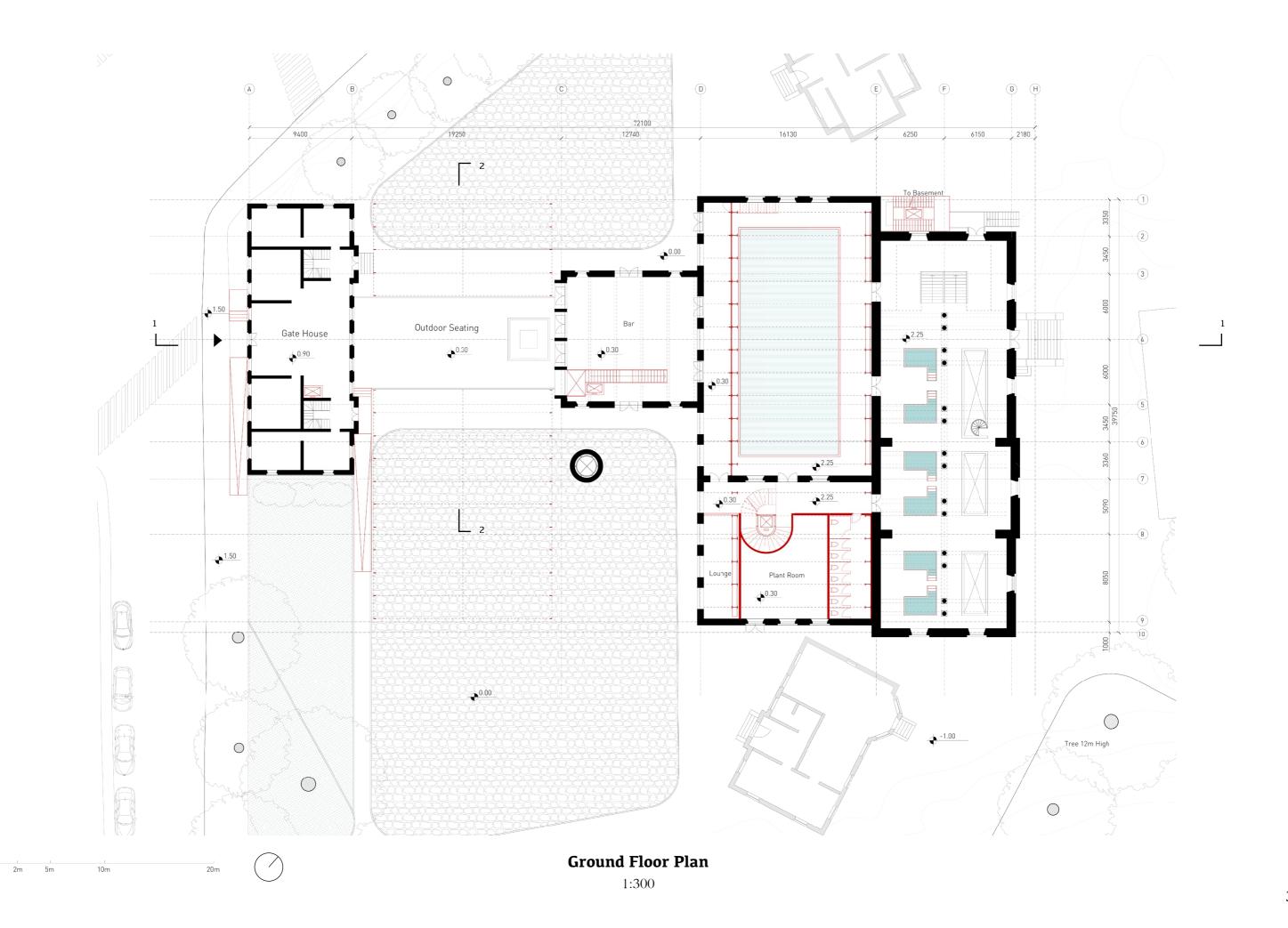


Remove the Existing Roof

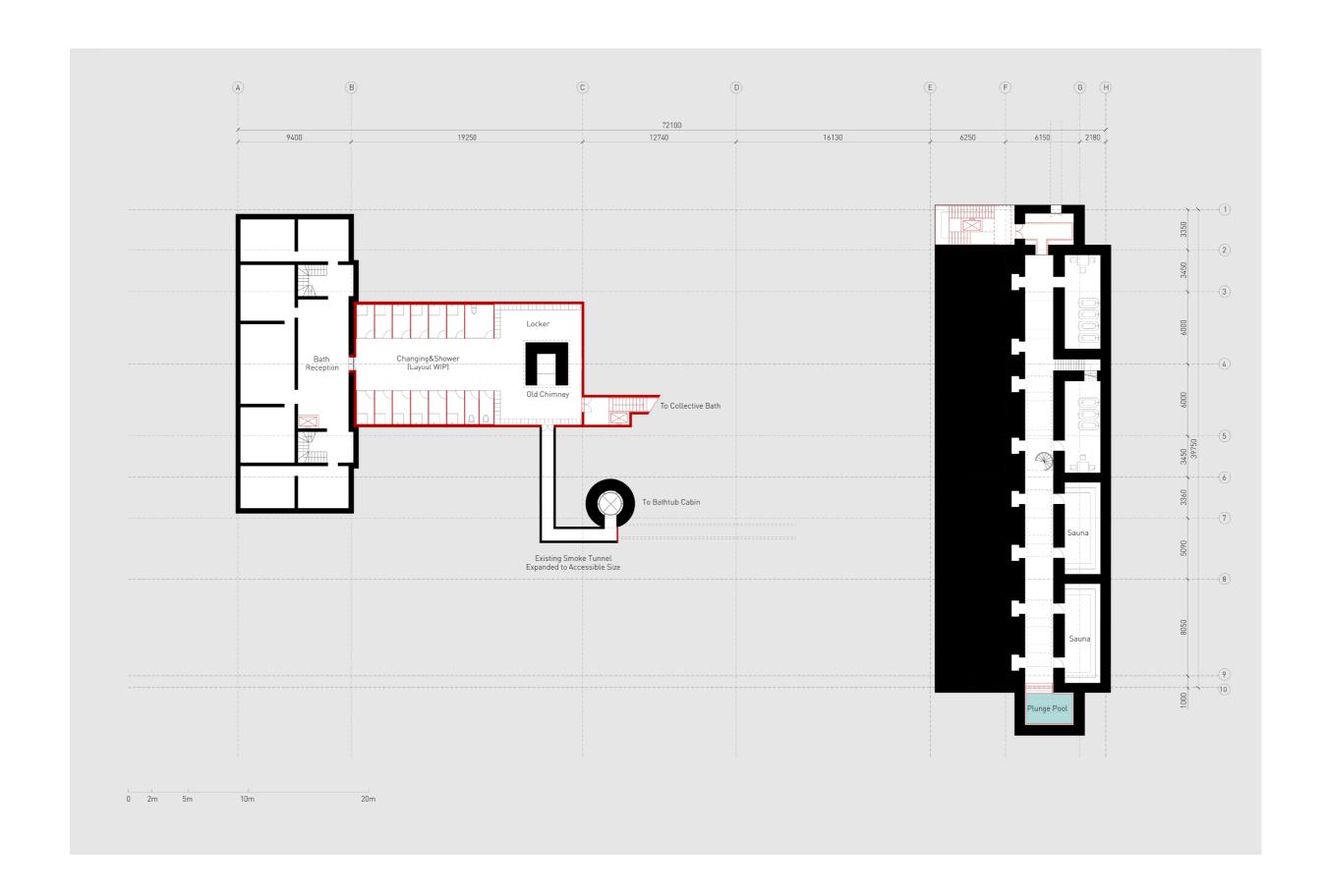


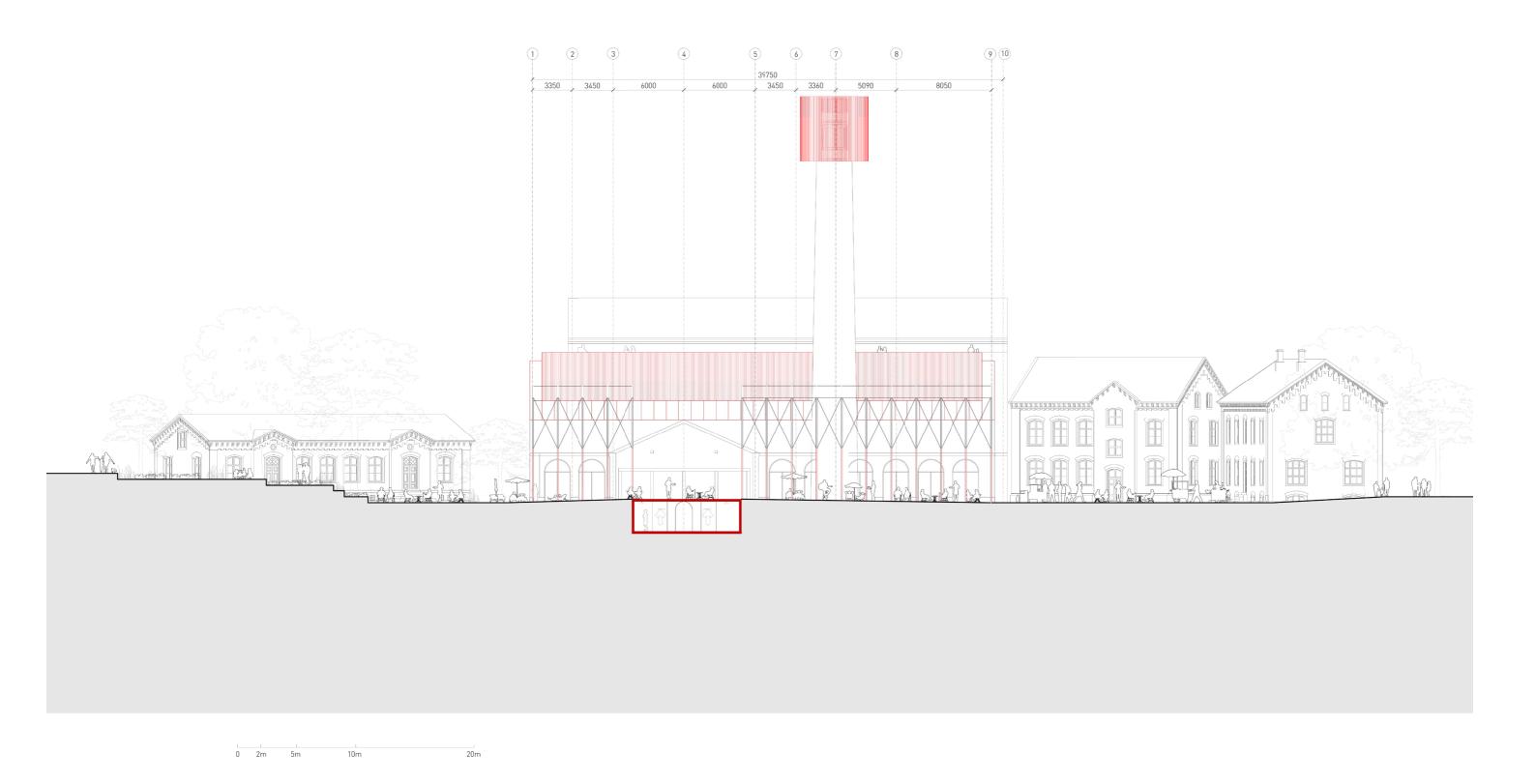


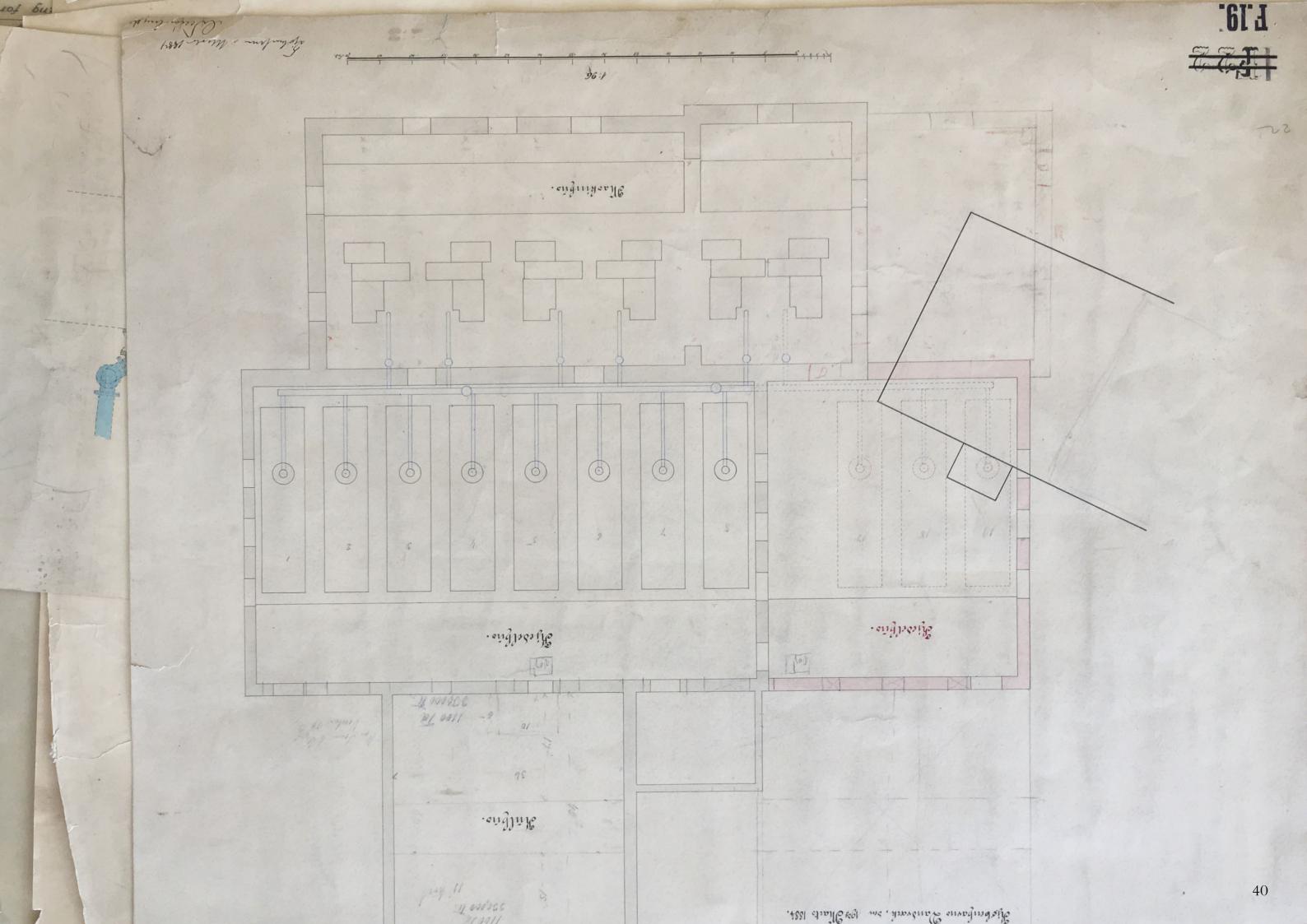
New Roof with Bath on Top

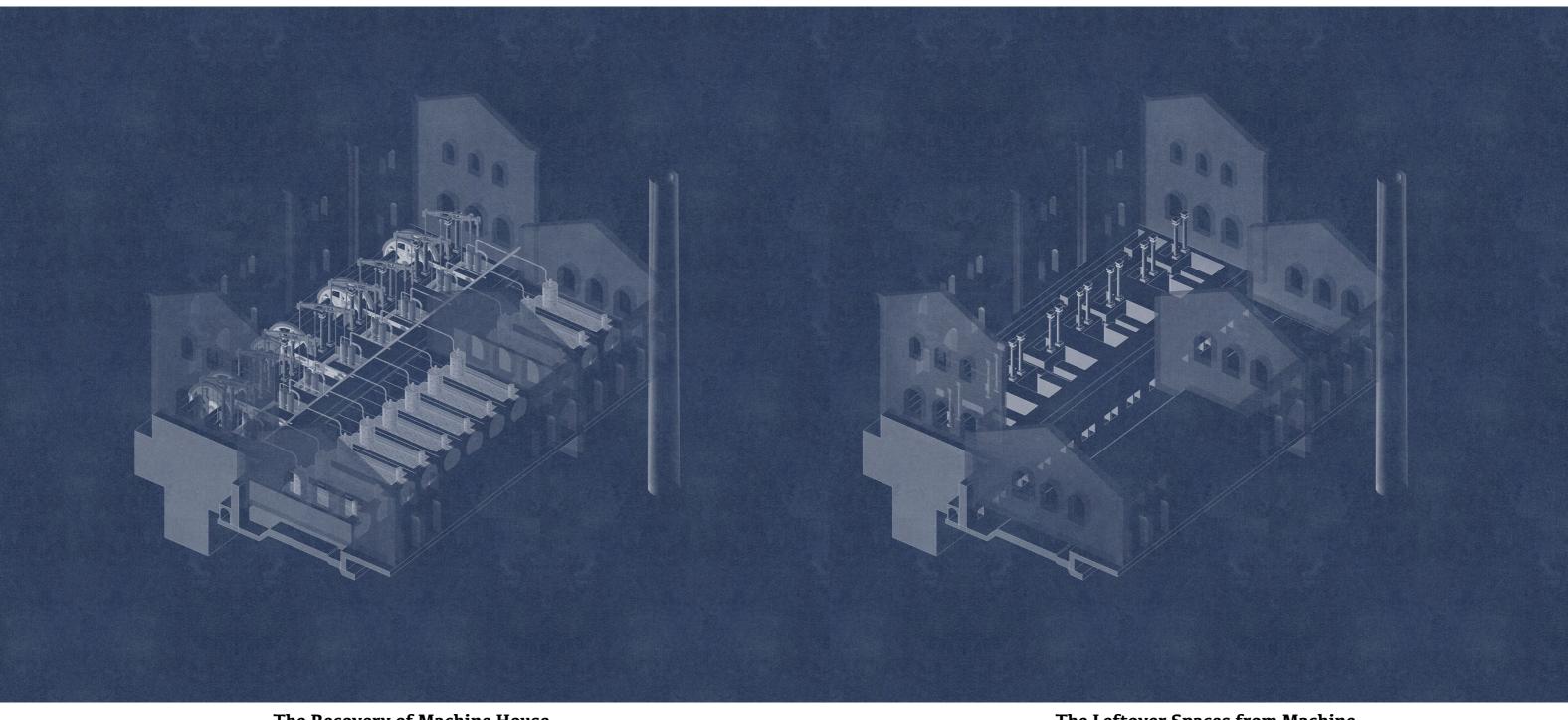






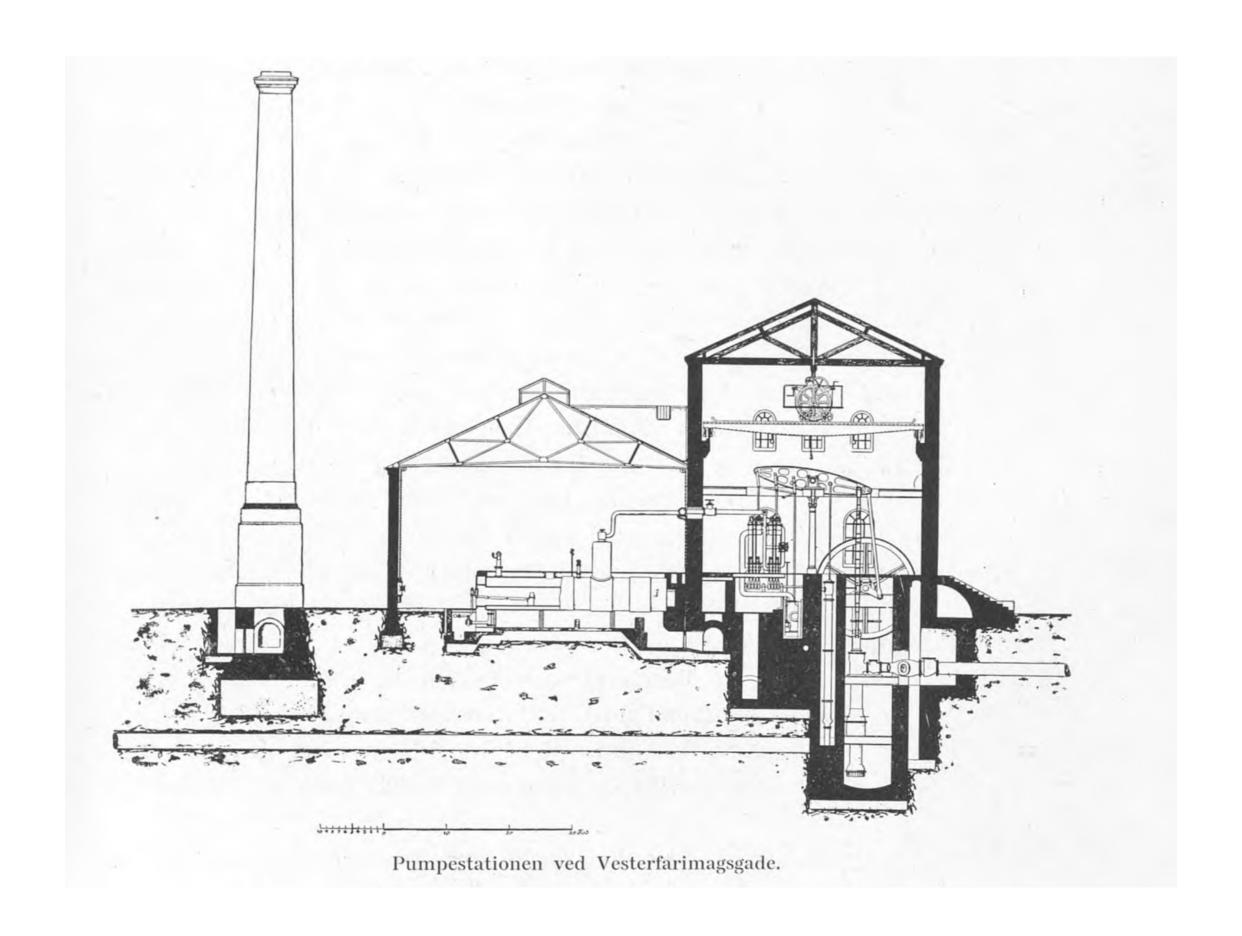




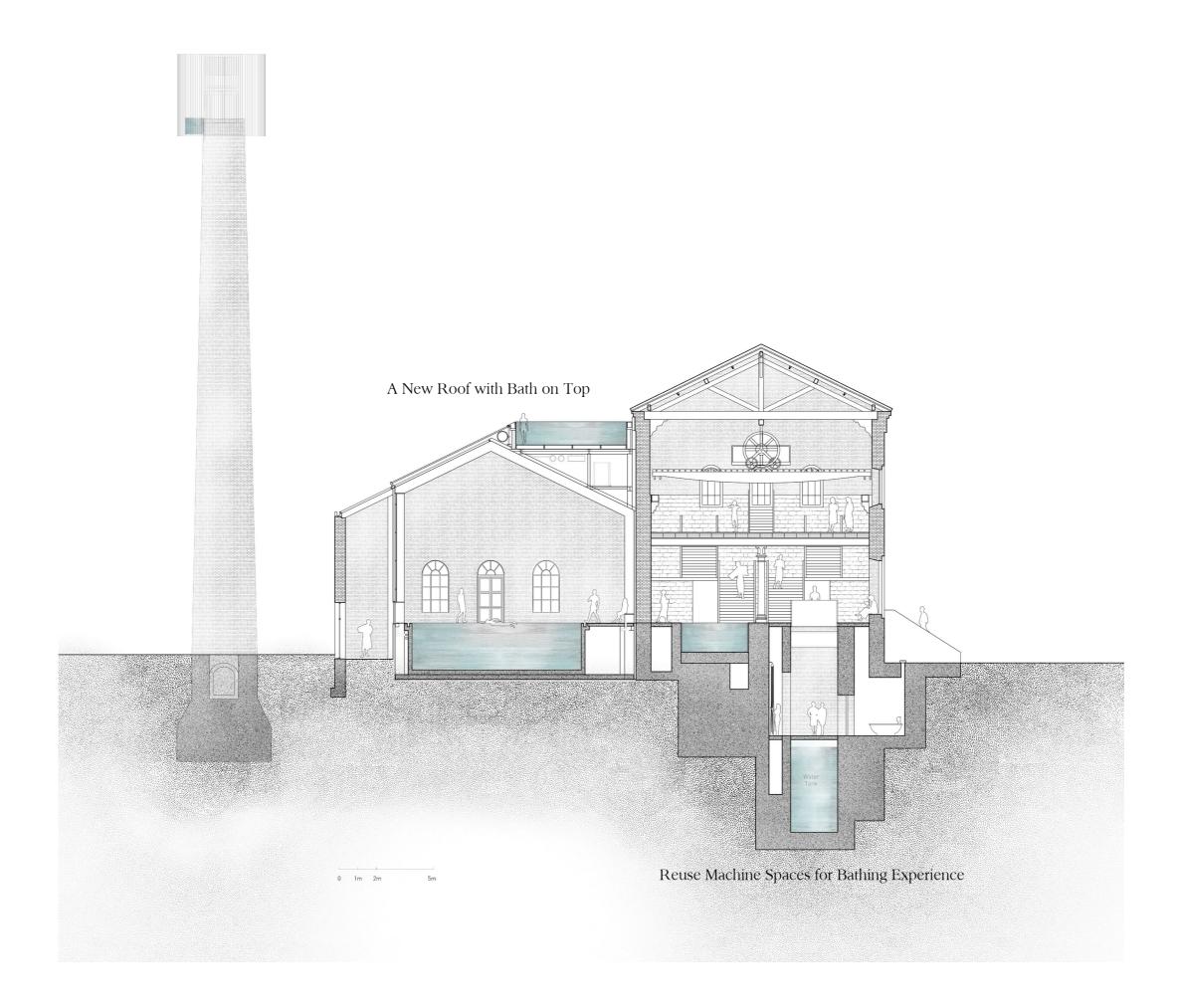


The Recovery of Machine HouseA Recovery Model from the Archive Drawings

The Leftover Spaces from Machine A Recovery Model from the Archive Drawings

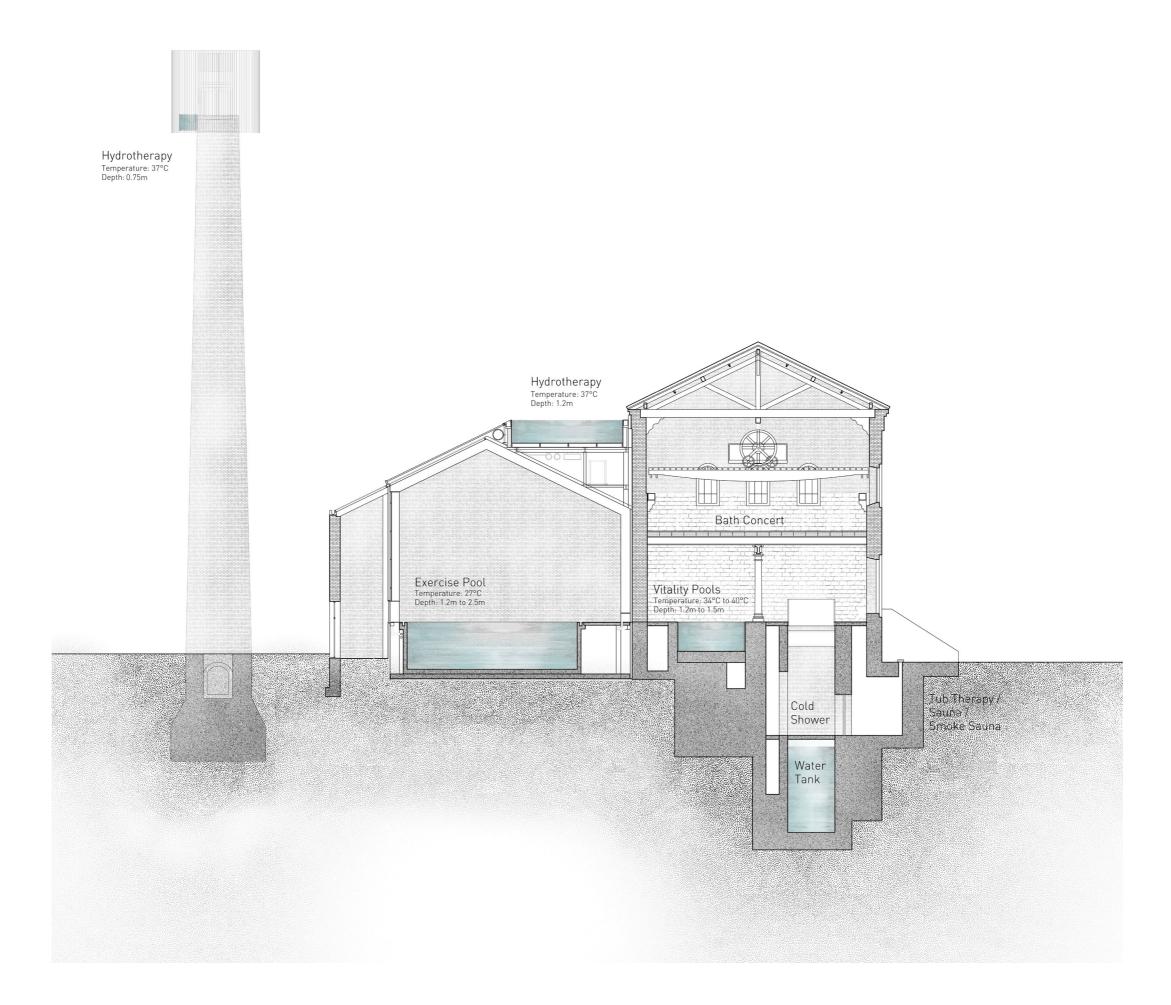


Machine House Section



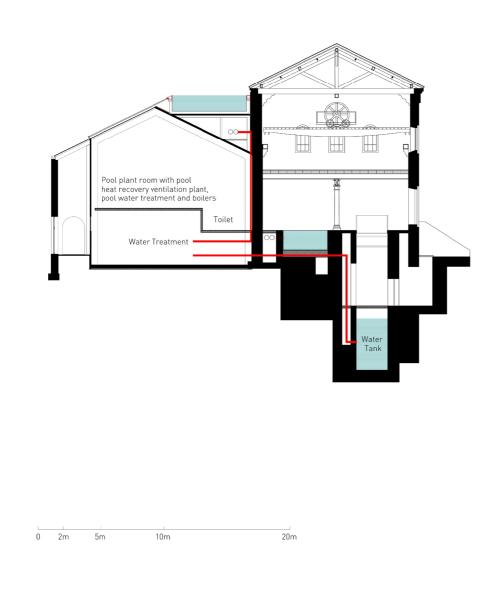
Machine House Section

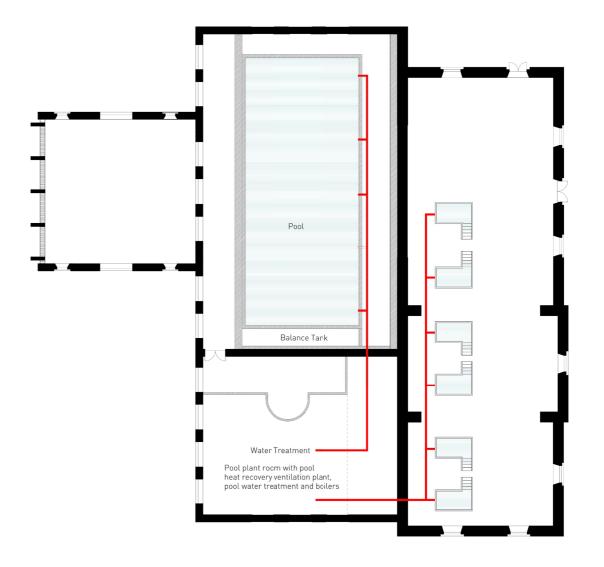
Appropriation

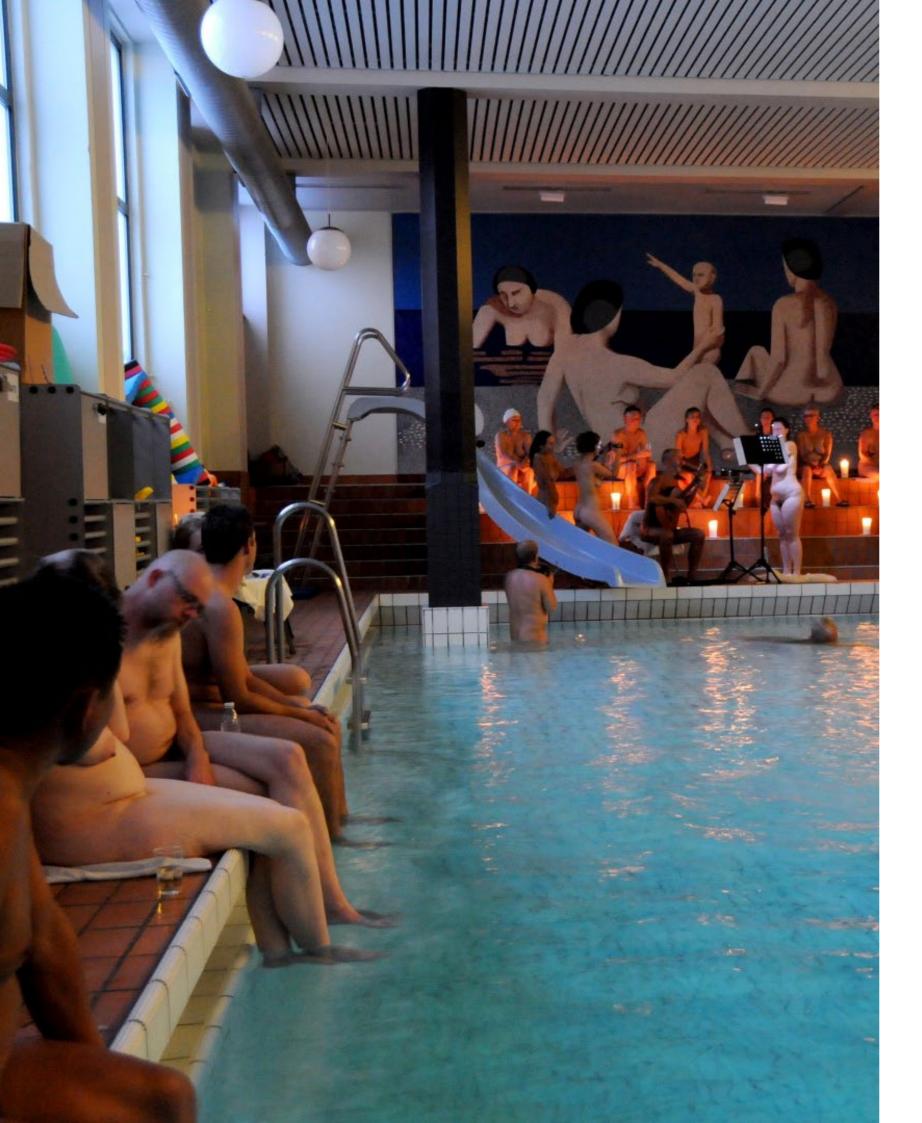


Pool Typologies

A Vatiety of Bathing Experience







Chapter 03

The Collective Bath

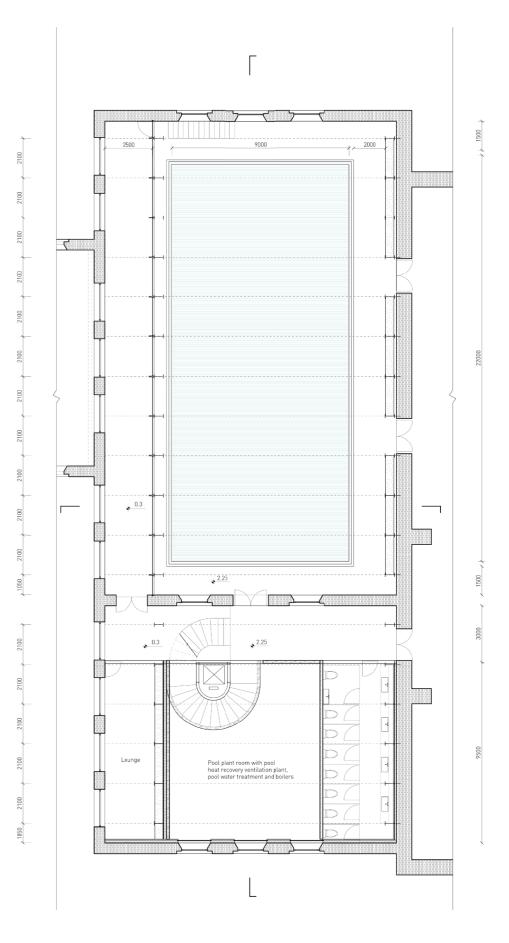
A Transcultural Moment of Cleansing

The Collective bath shows the idea of bringing bathing experience to the urban celebration.

A combination of cleansing and celebration refers to the characteristics of this industrial monument with water and machine. It addresses the current demand of the city for more bathing facilities, where more and more cultural events were held.

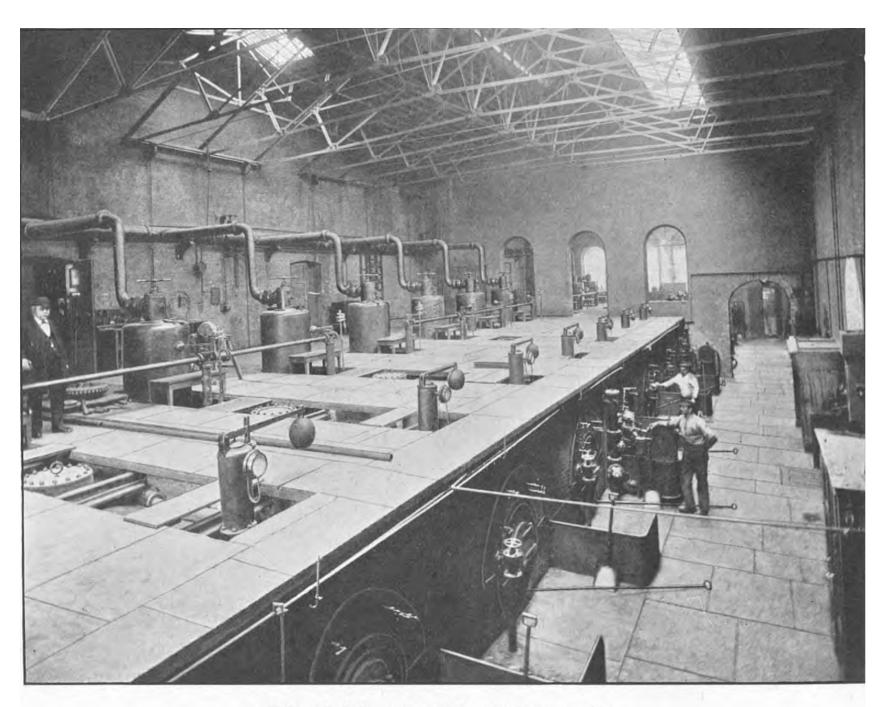
In those celebrations, in the cultural event, everyone becomes pure and transparent. The experience of bathing brought the ultra- intimacy to the celebrations. That is when the transcultural moments happen.



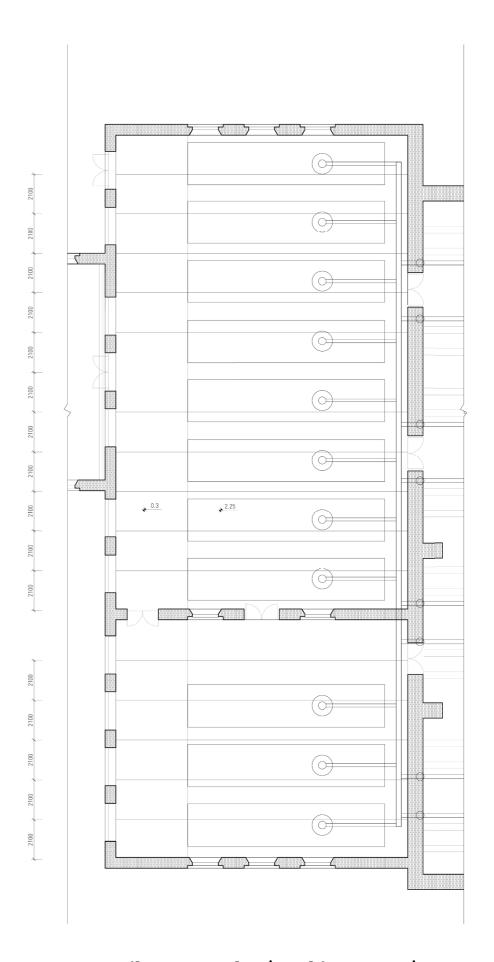


Boiler House Plan (Collective Bath)

1:200

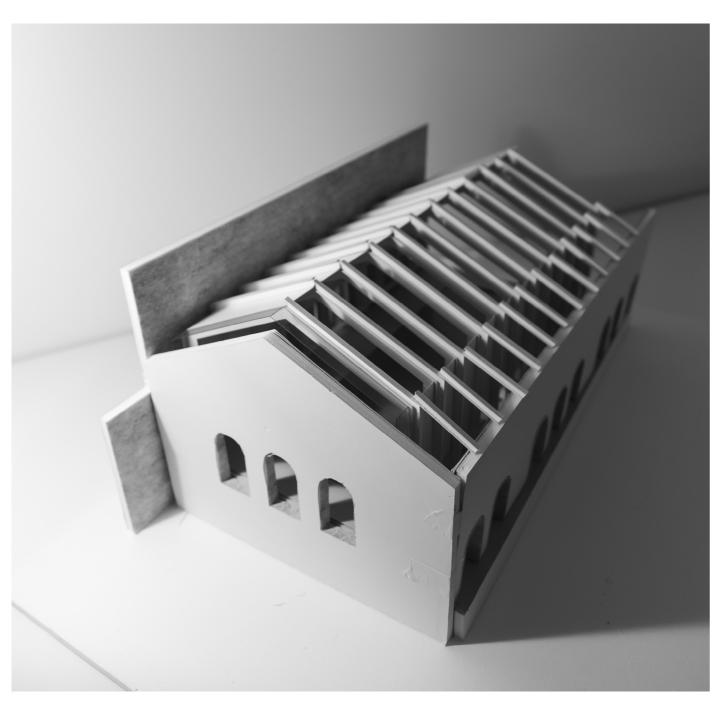


Ældre Kedelanlæg ved Vesterfarimagsgade.

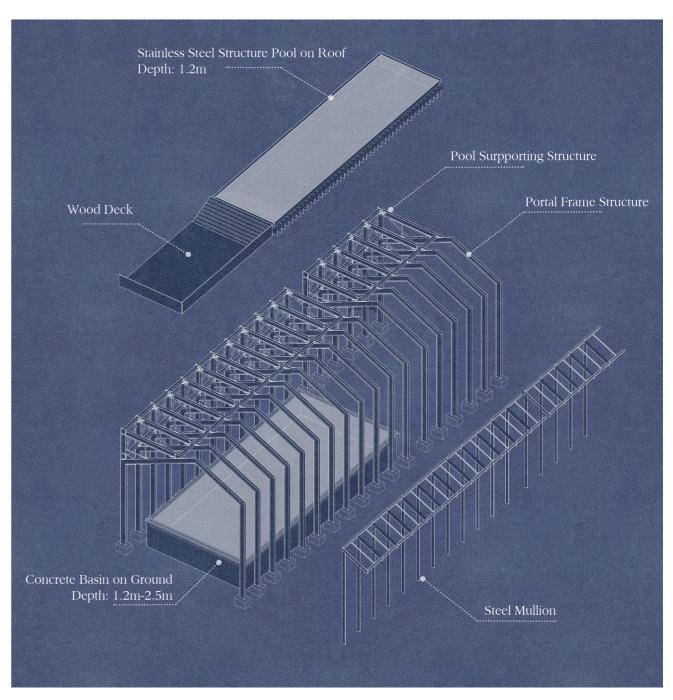


Boiler House Plan (Machine Layout)

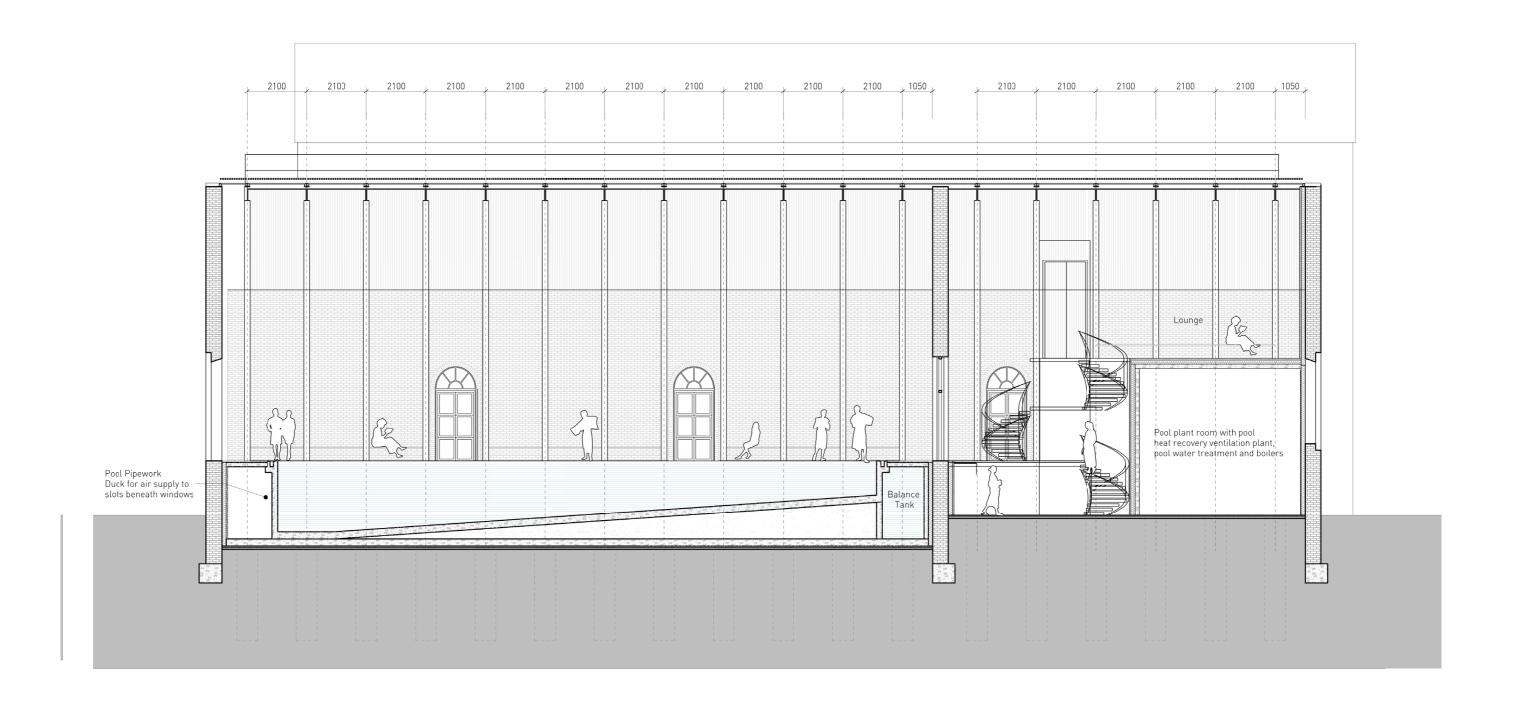
1:200



Structure Model 1:50 Interior Study Model



Loadbearing Structure 1:50 Interior Study Model



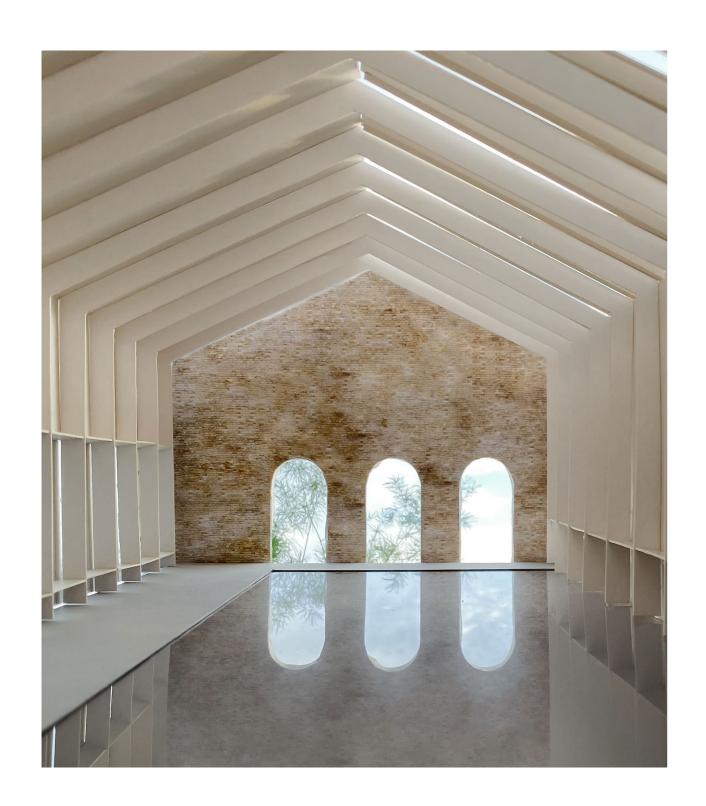
Longitudinal Section of Boiler House (Collective Bath)

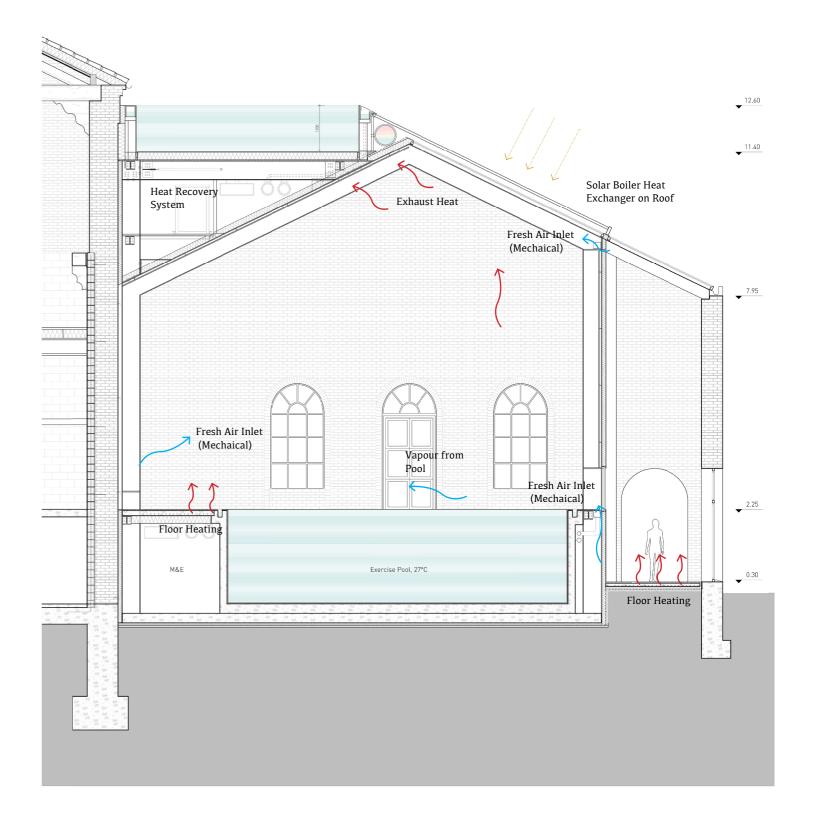


Interior Pool

Interior View Towards Old Brick Wall





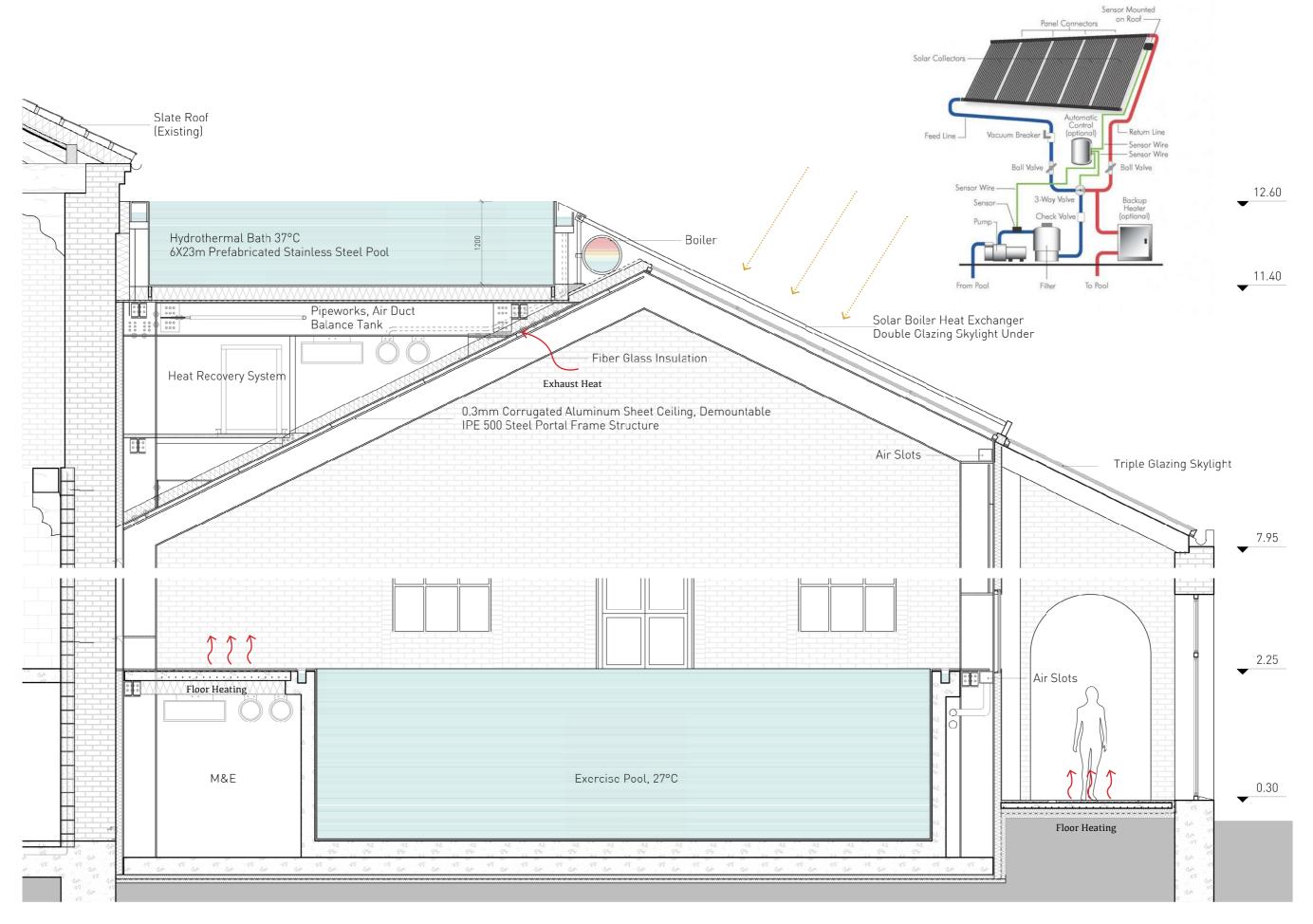


Interior of Exercise Pool 1:50 Interior Study Model

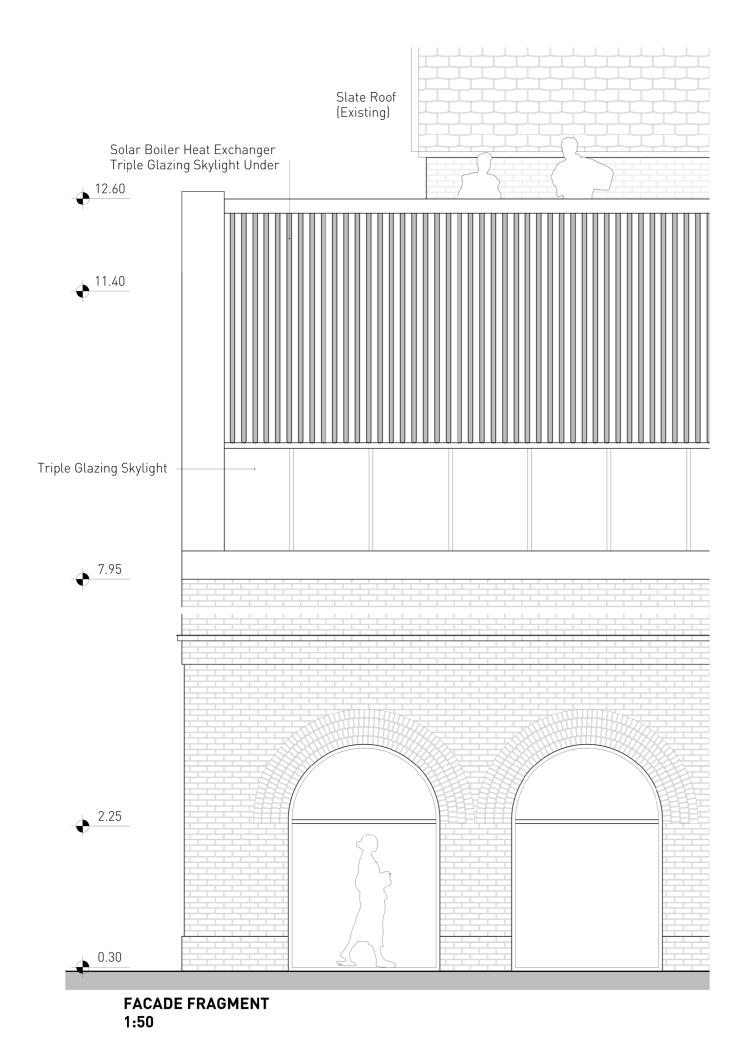
Climate Strategy for Winter

1:100 Cross Section

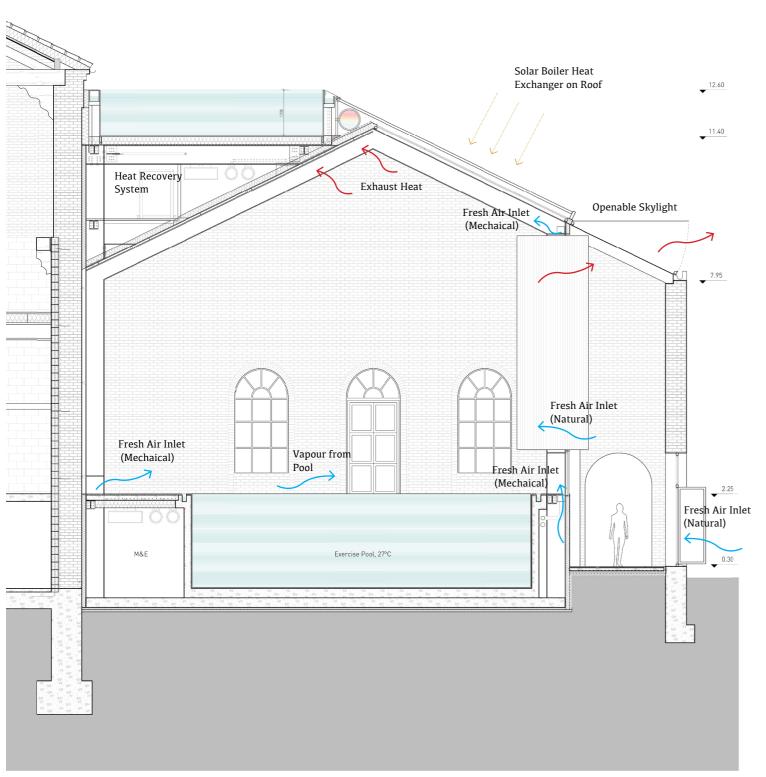




FACADE FRAGMENT 1:50

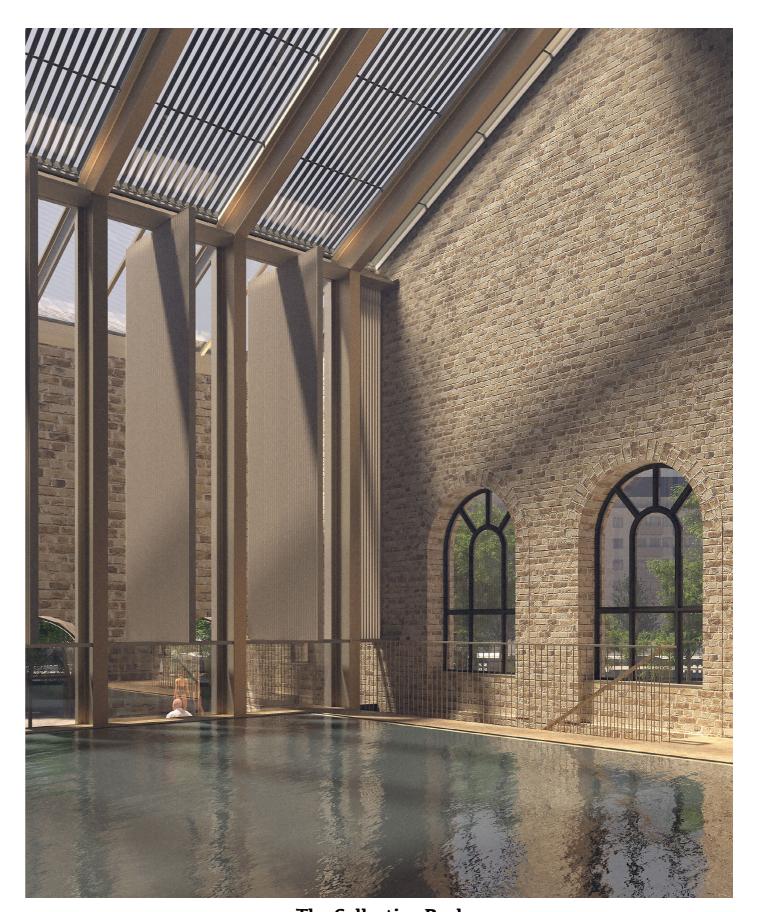


The Collective PoolView Towards Corridor

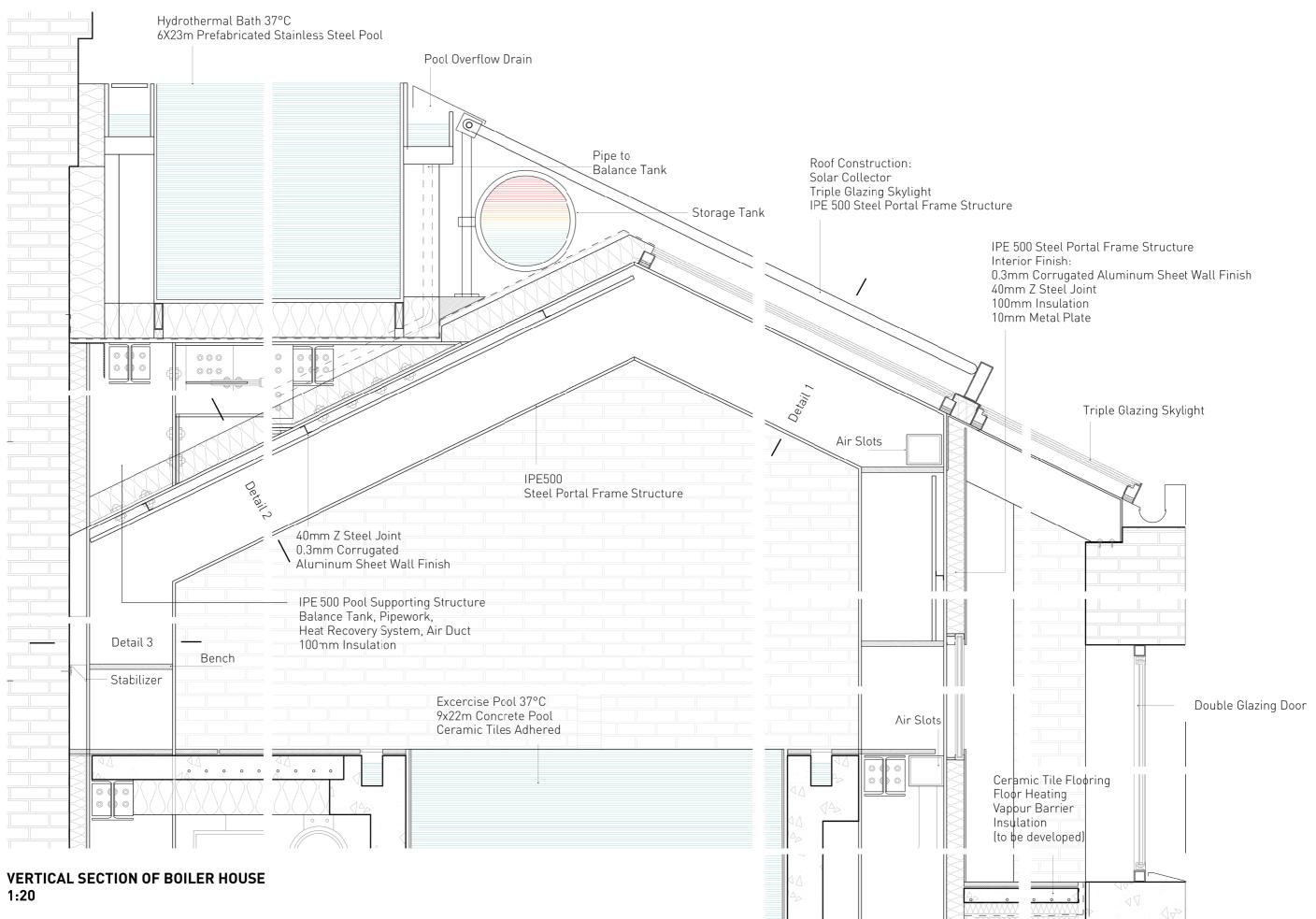


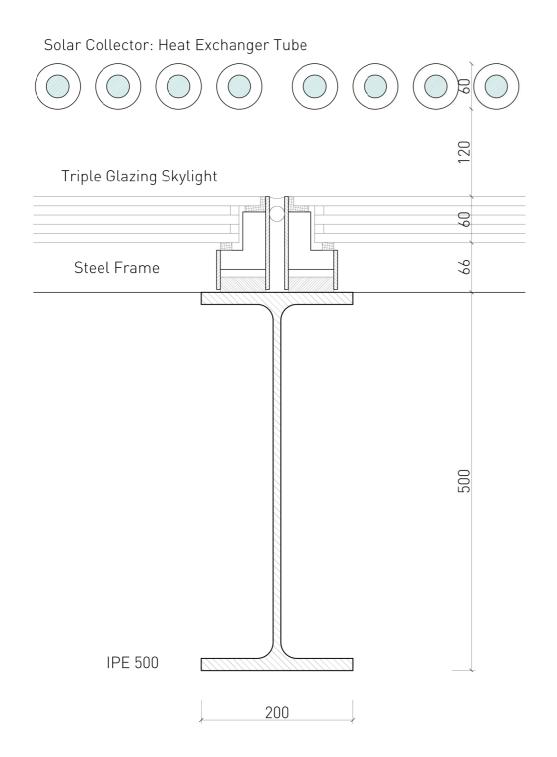
Climate Strategy for Summer (Further Study)

1:100 Cross Section



The Collective PoolA Possibility of Rotating Panel

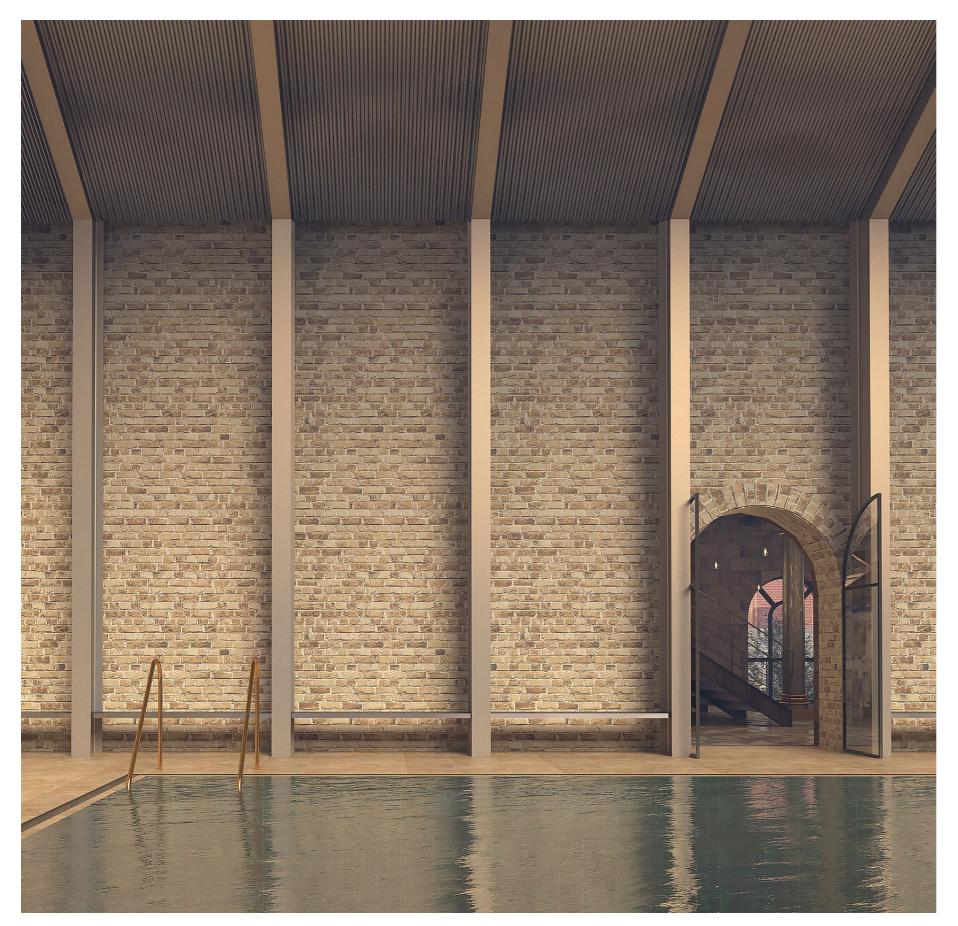




DETAIL 1: SKYLIGHT 1:5



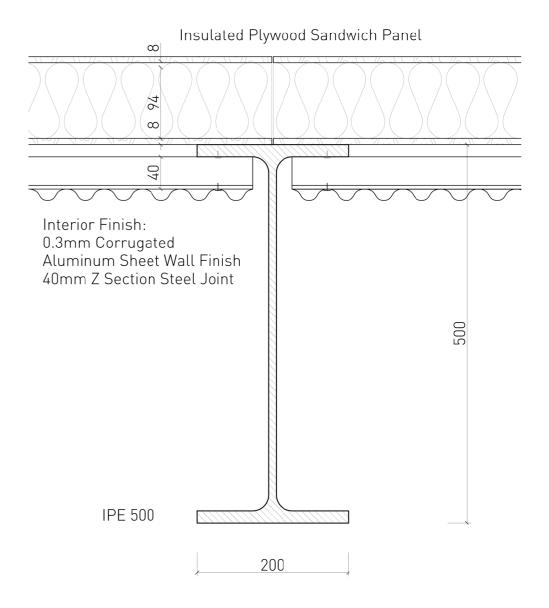
Solar Boiler System on Top of Roof 1:250 Study Model



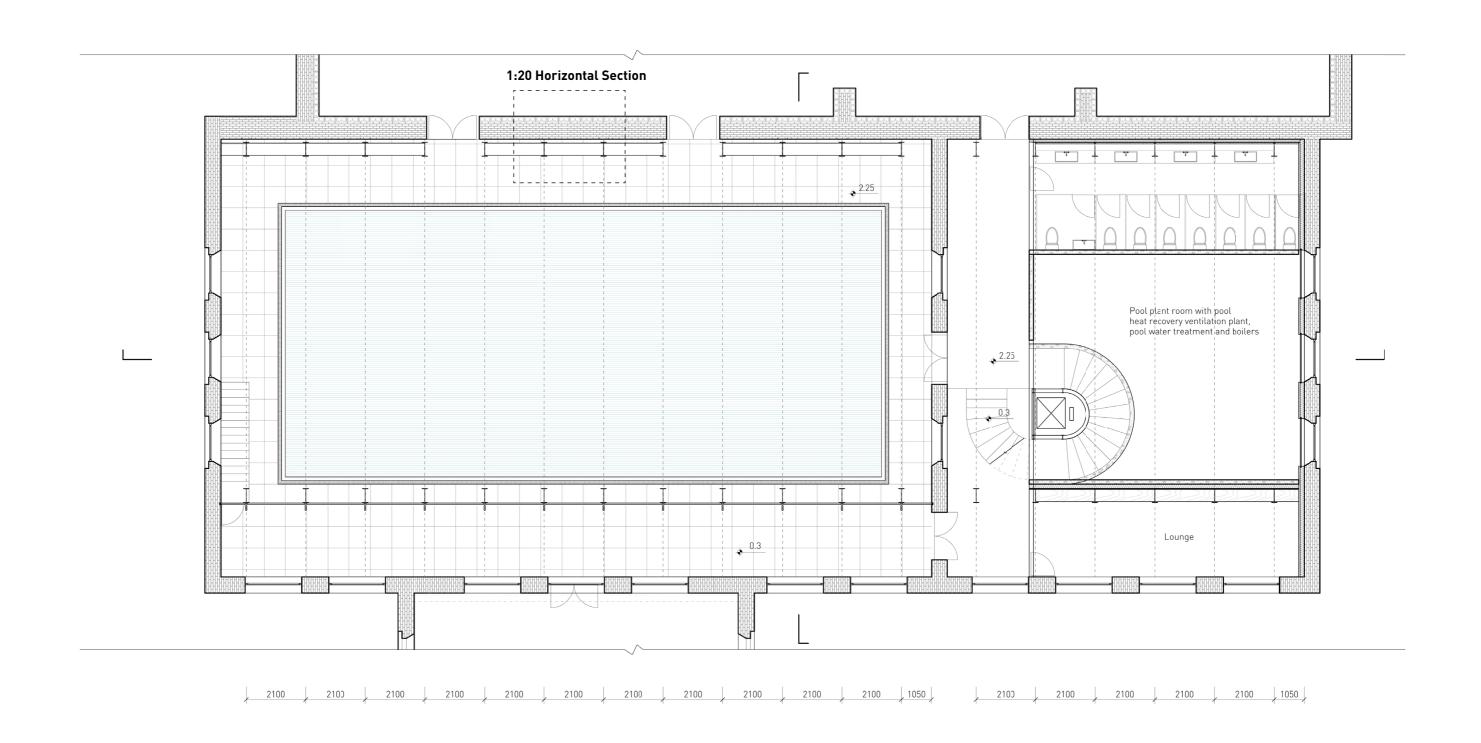
Steel Frames and Corrugated Ceiling Panels

View Towards Pumphouse

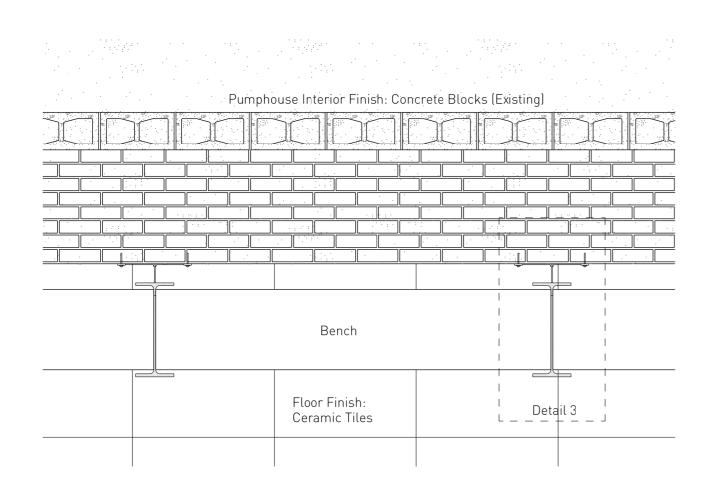
Roof MEP Space



DETAIL 2: CEILING 1:5



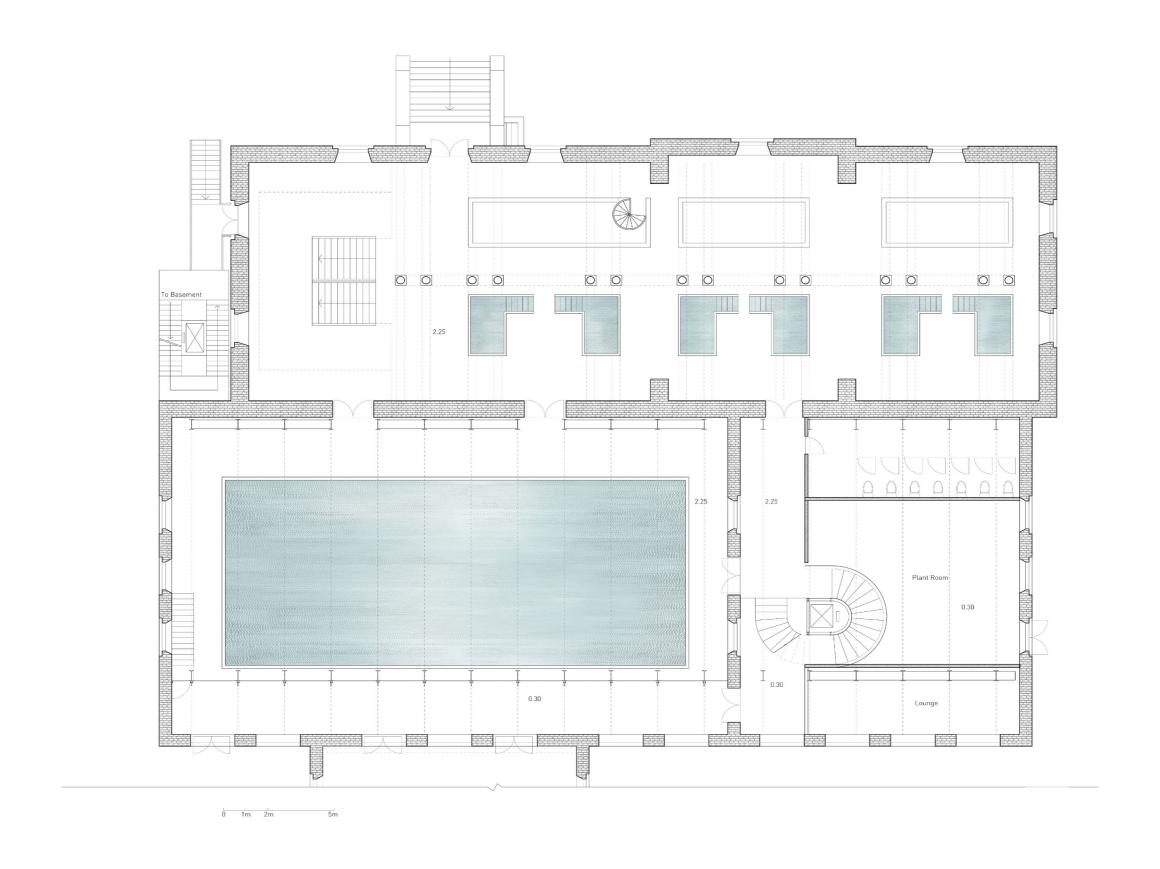
Plan of Boiler House (Collective Bath)



Triangel Plate Weld to IPE 500 155 155 40 , 40 92 90 IPE 500 40, 155 155 40 Triangel Plate Weld to IPE 500 IPE 500 200

DETAIL 3: ACHOR ON BRICK WALL 1:5

HORIZONTAL SECTION OF BOILER HOUSE 1:20



Interior of Pumpehuset Ground Floor

A Place of Secret Meeting

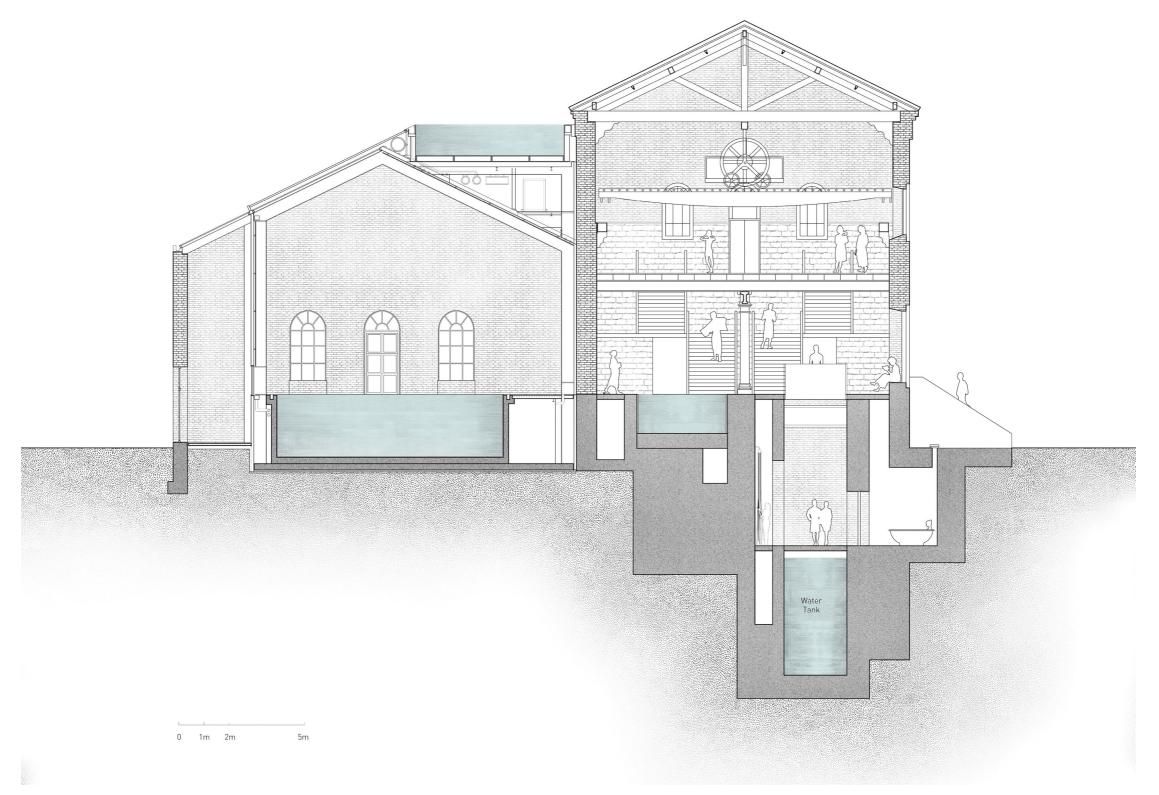


Interior of Pumpehuset Ground Floor Current



Interior of Pumpehuset Ground Floor

Reappropriation



Cross Section of Pumphouse

A Variety of Bathing Experience



Chapter 04

The Experiencial Bath

The Reappropriation for Private Meeting and Intimate Cultural Events

After the Sanitation Movement, private bathrooms were required in the new housing as a basic welfare system. Most of the bathhouses around Copenhagen were demolished. Only a few was left, and the individual shower cells were expanded for social purpose. Cultural events such as concert, are often arranged in these places.

In the reaapropriation of Pumphouse, a model of danish bath was referred. It shows how the individual bath cubes has been transformed into a place of private meeting, a place of intimate cultural events.

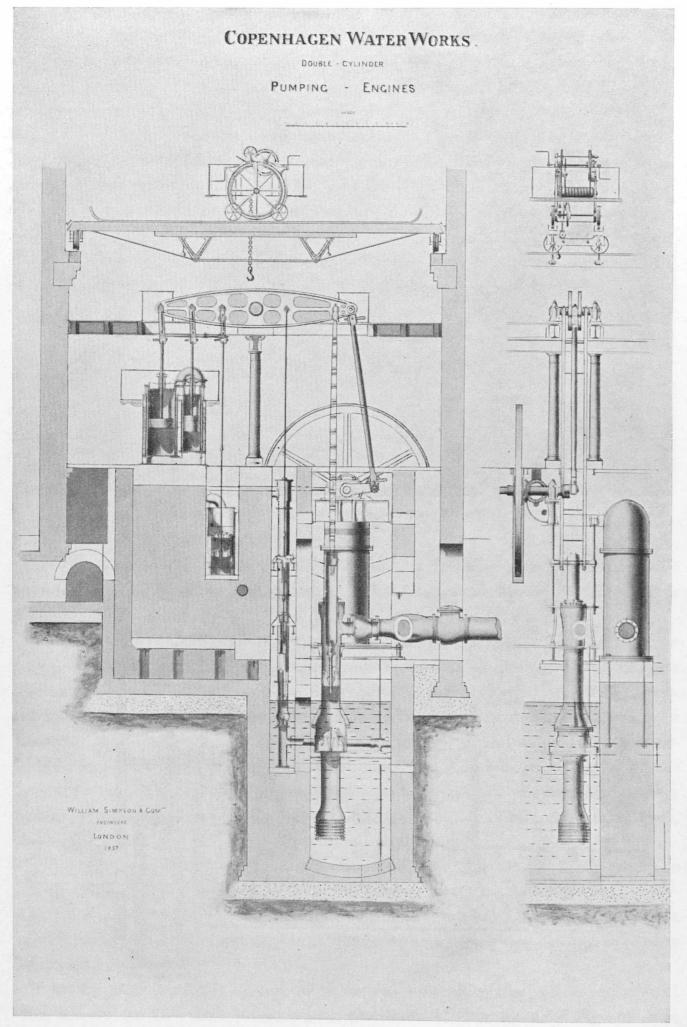
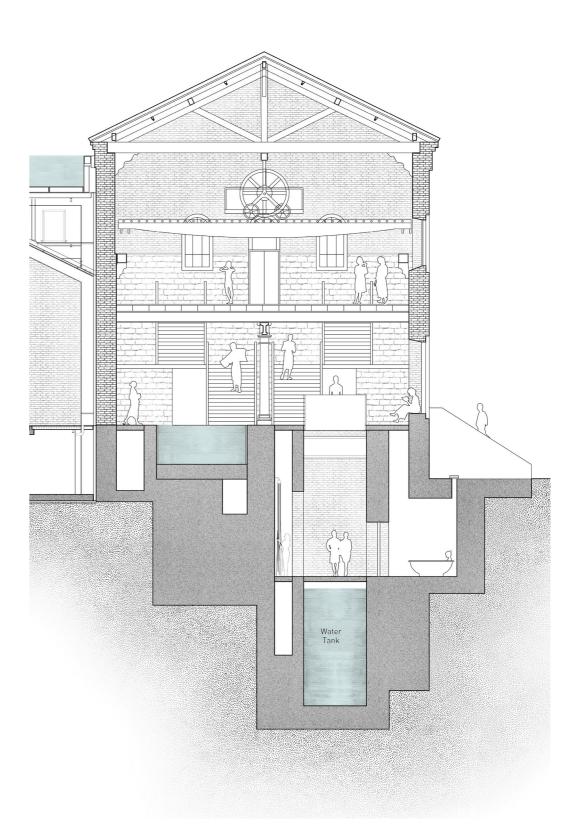
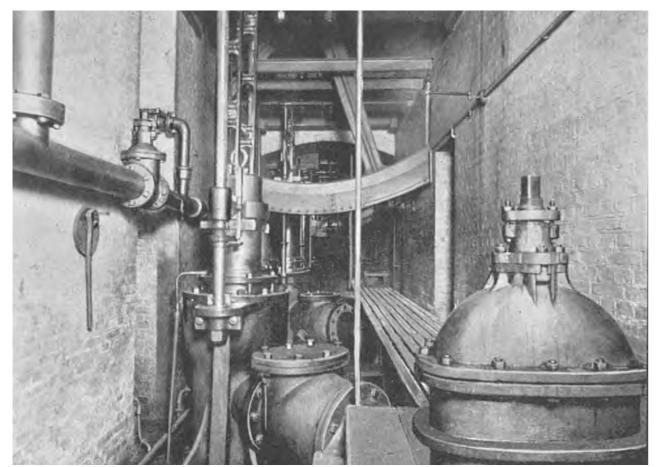


Fig. 60. Simpson's balancemaskine, efter originaltegningen.



Appropriation: A Variety of Bathing Experience

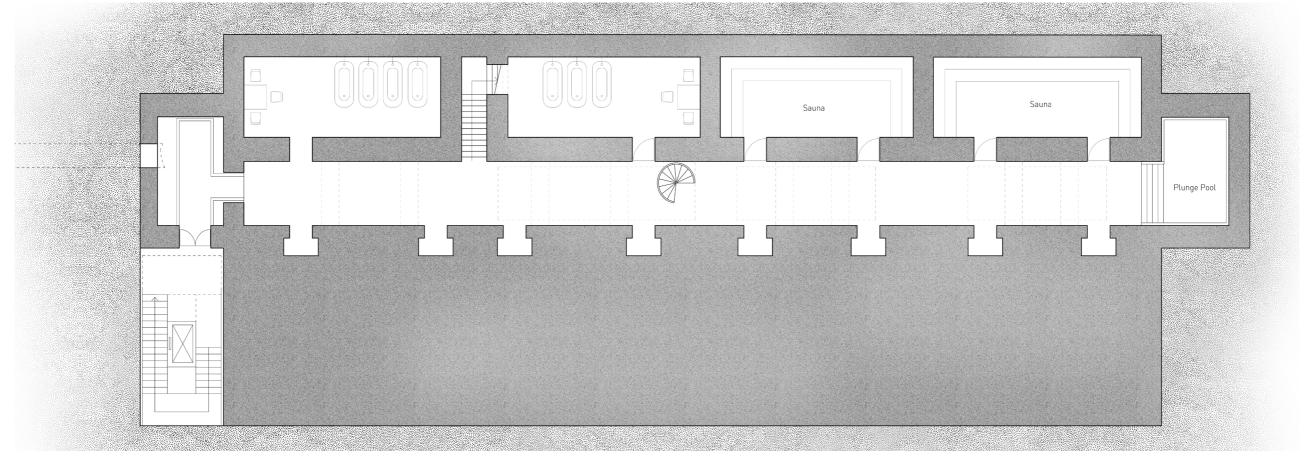
Pumphouse Cross Section 1:200



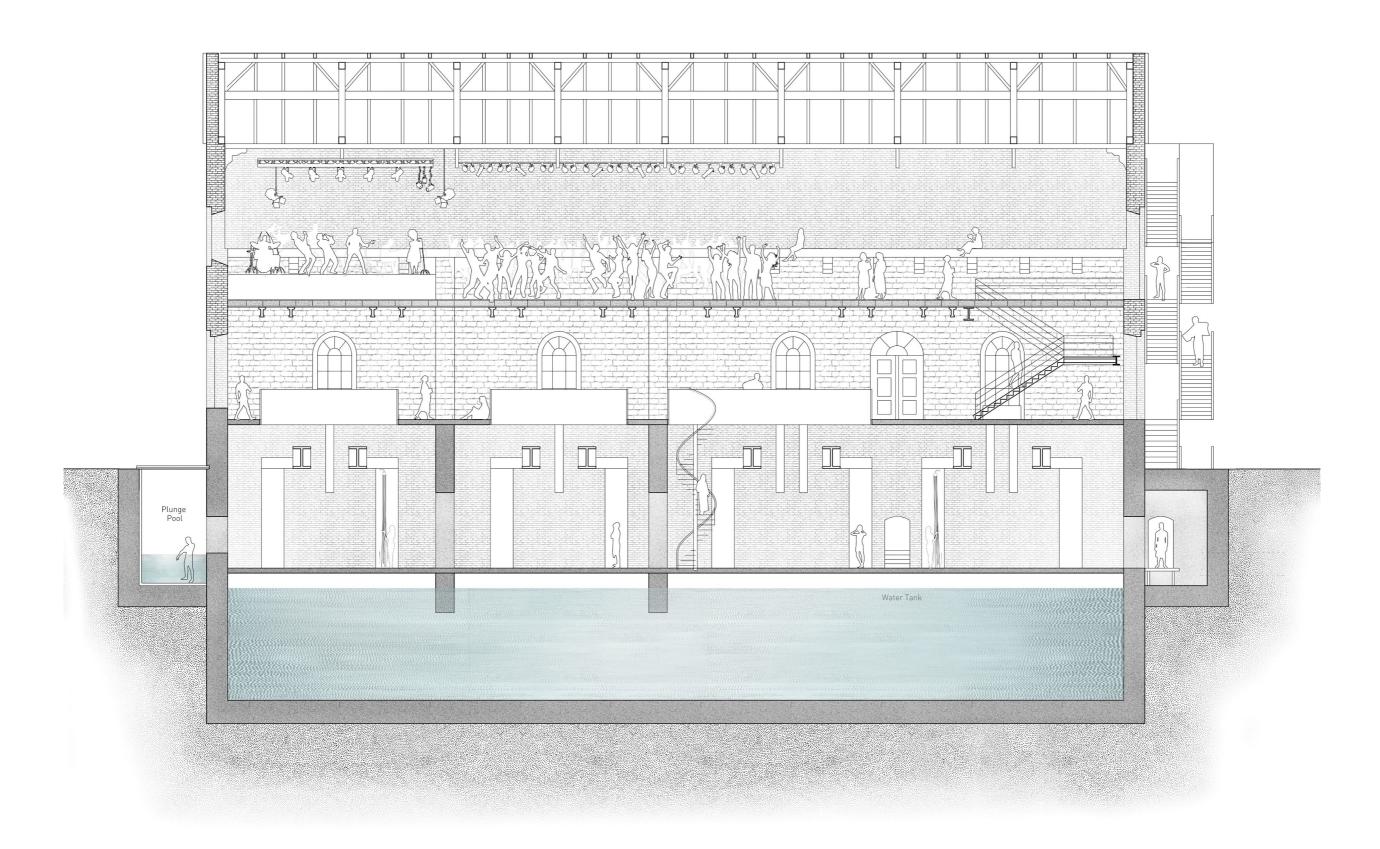




Underground of Pumpehuset, 2020

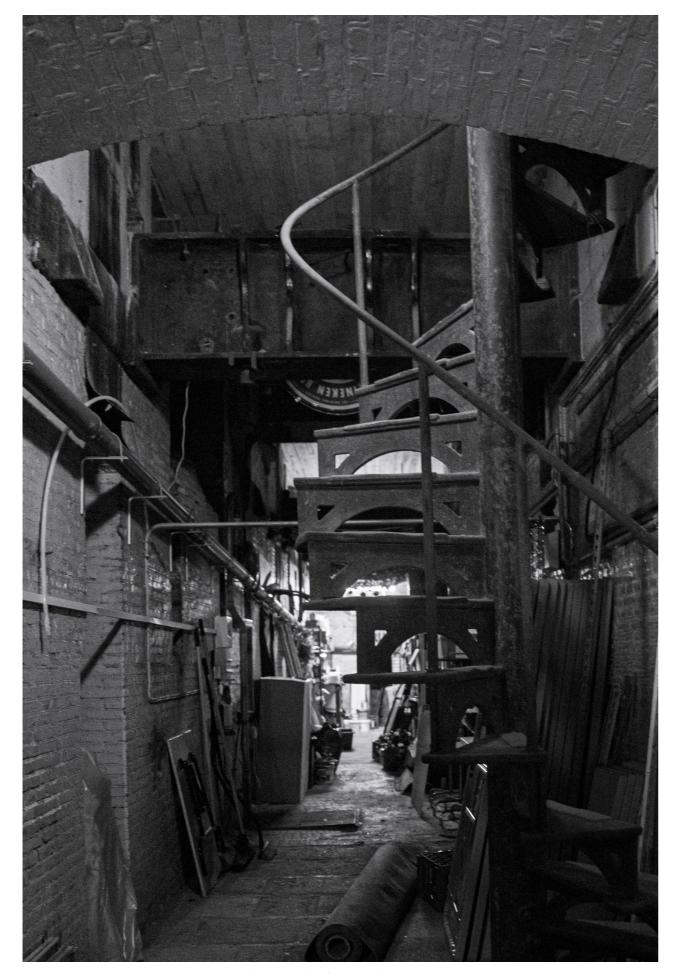


Pumphouse Basement Plan

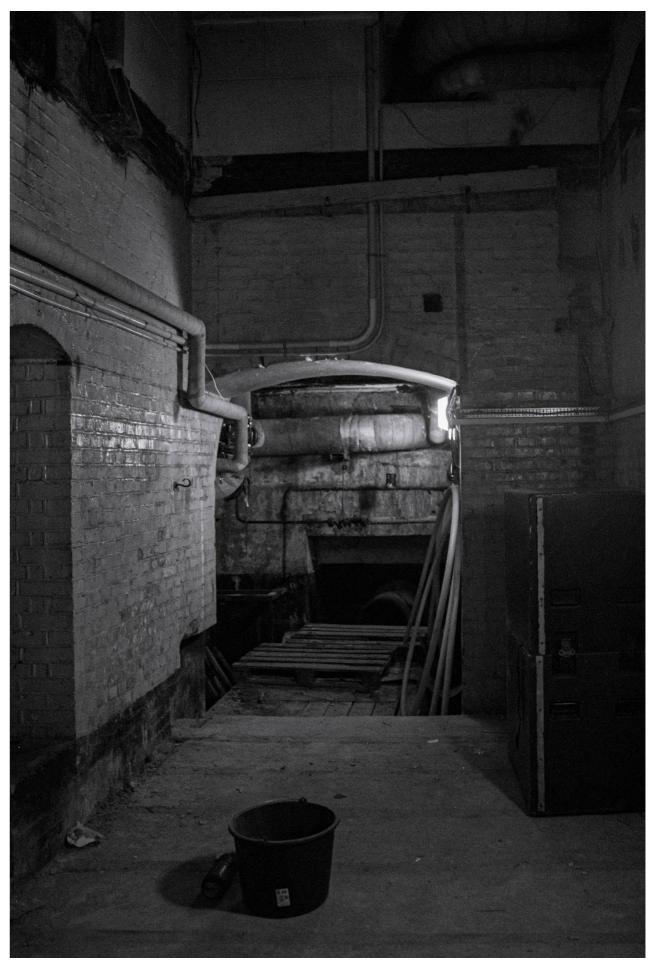


Longitudinal Section of Pumphouse

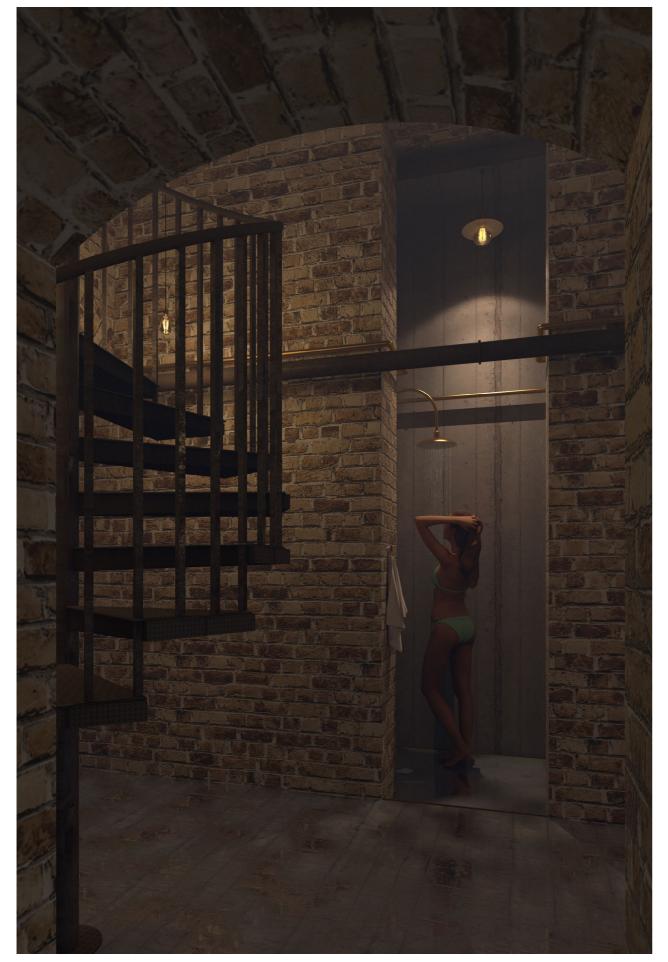
1:200



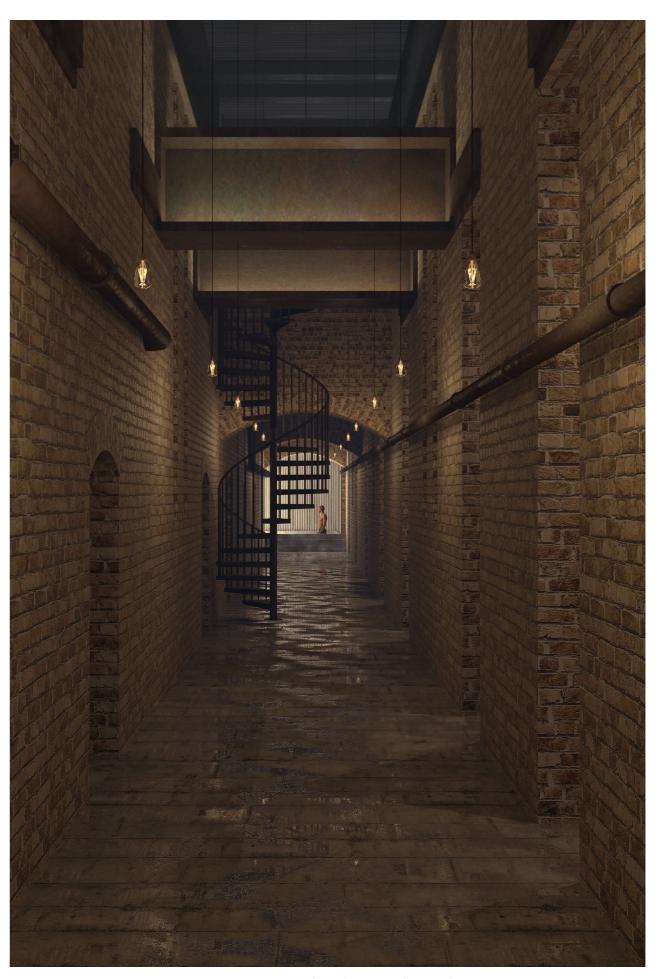
Underground of Pumpehuset, 2020



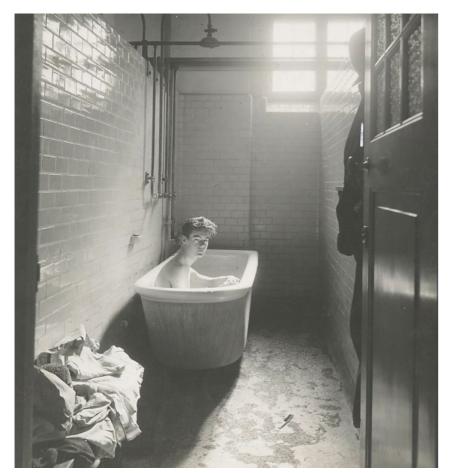
Underground of Pumpehuset, 2020



Reaapropriation of the Shower Cell



Reappropriation of Underground Corridor



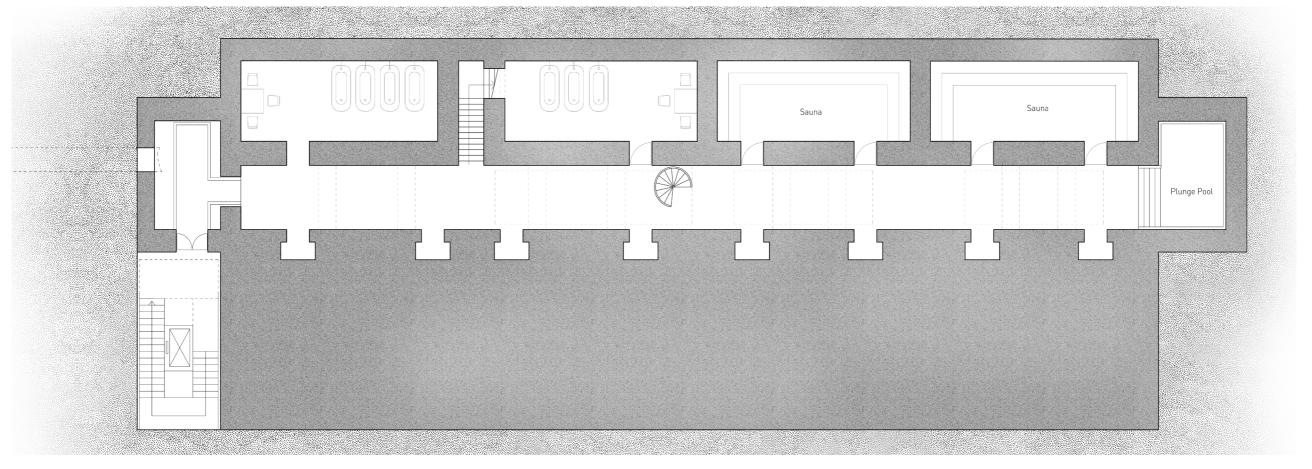




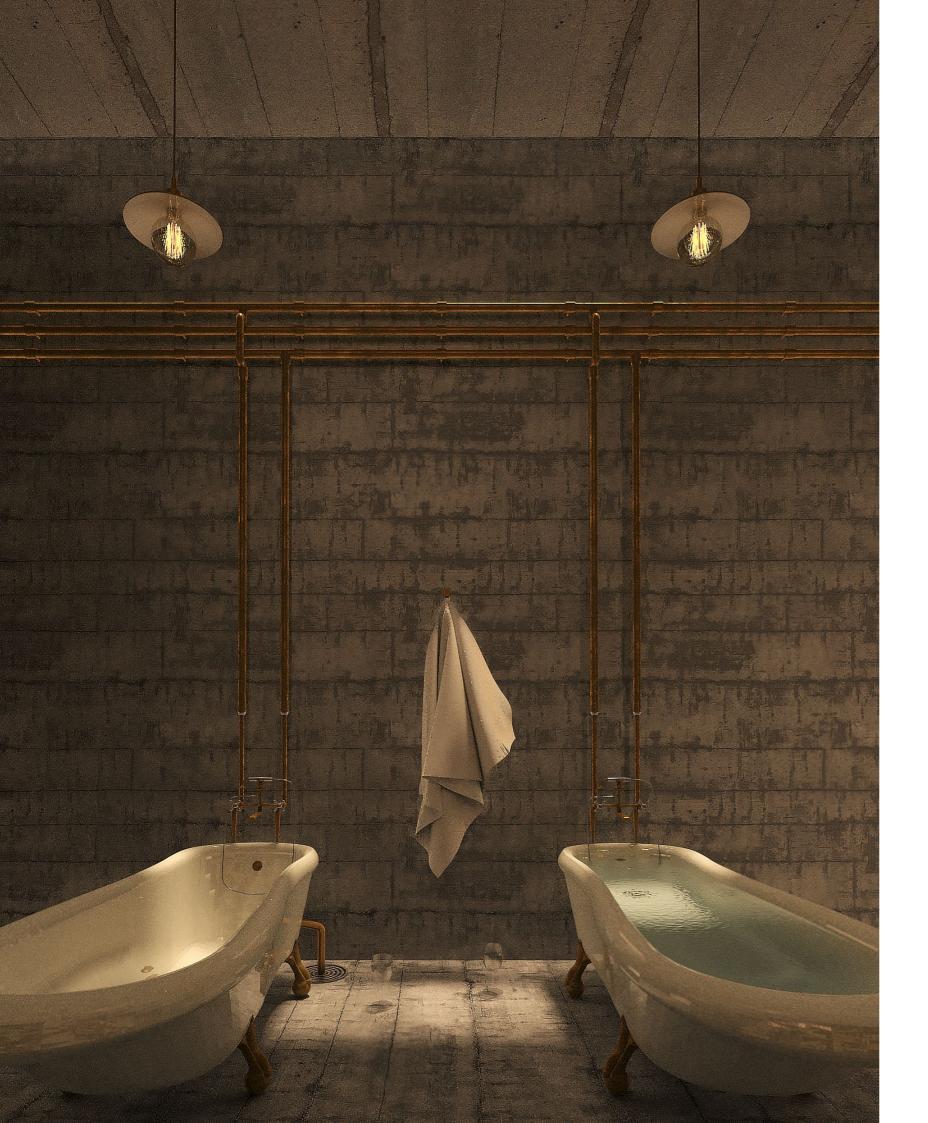
Sjællandsgade Bad,1922

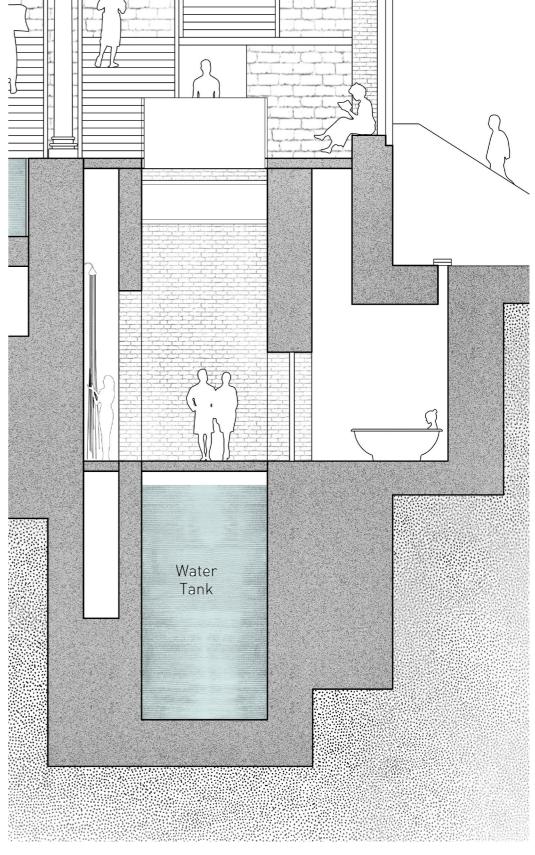
Sjællandsgade Bad shower ,1922

Reappropriation of Bathhouse, 2014



Pumphouse Basement Plan

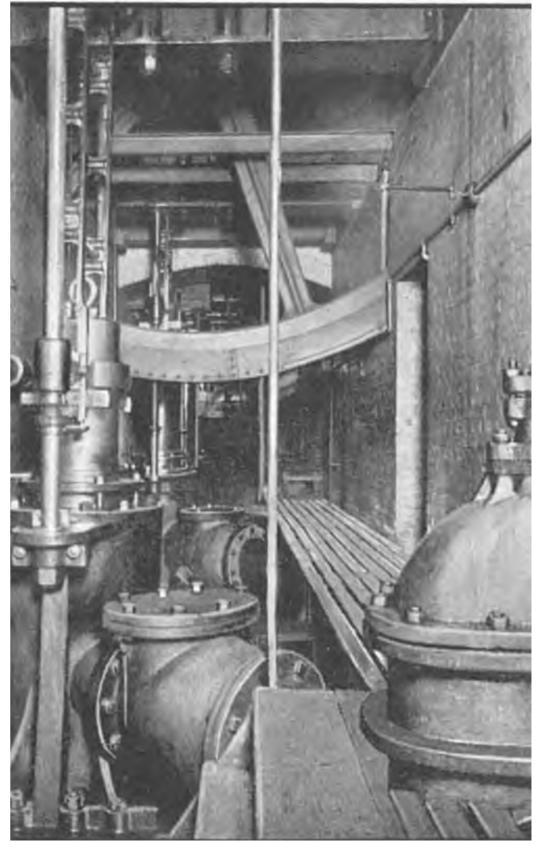




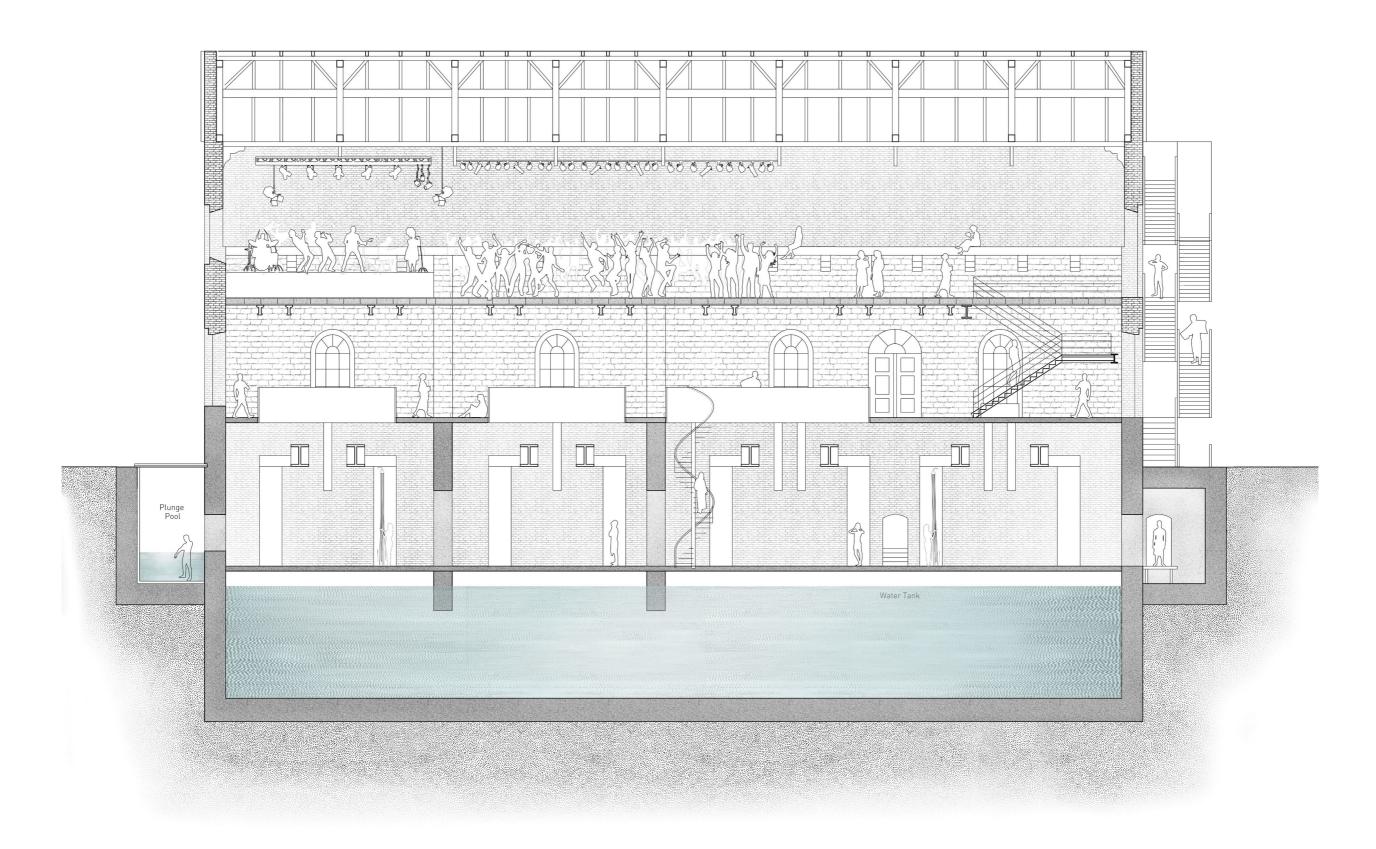
Appropriation: A Variety of Bathing Experience

Pumphouse Cross Section 1:150





Underground of Pumpehuset, 1890



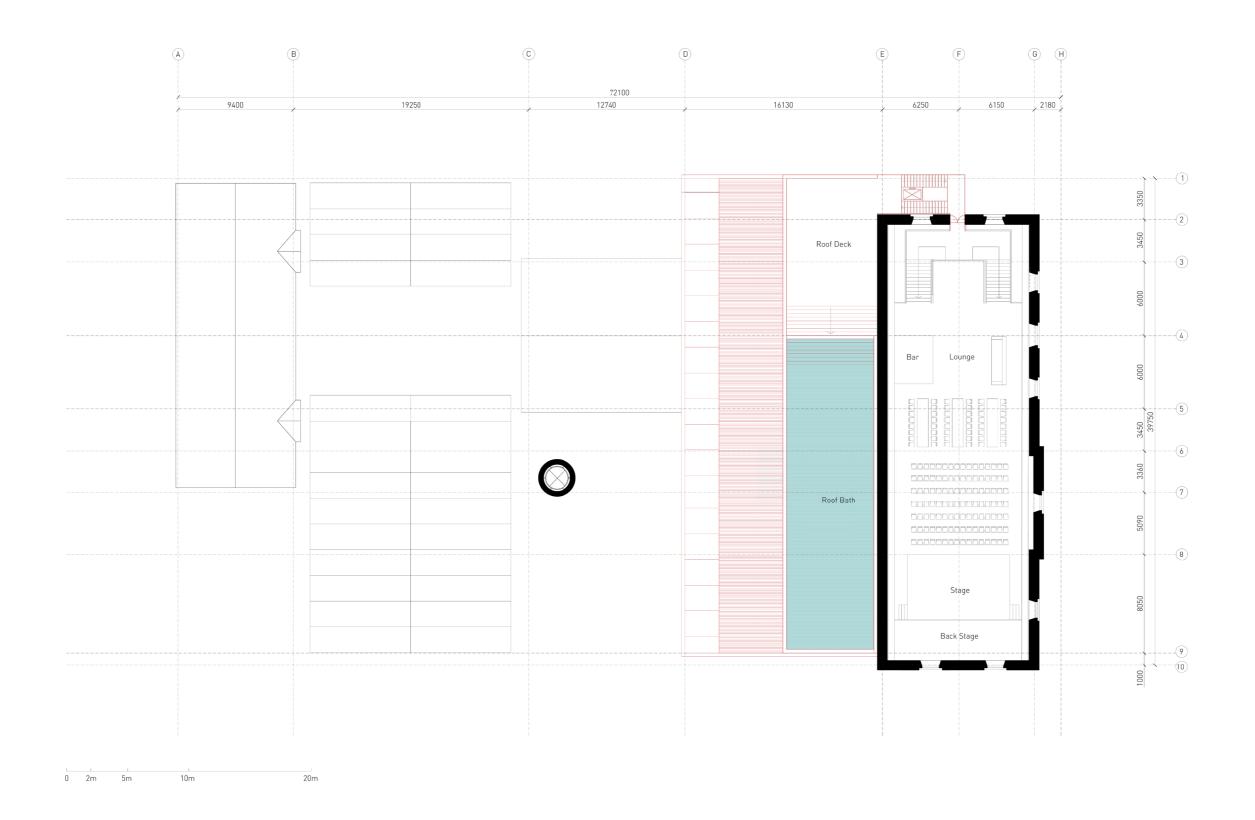
Longitudinal Section of Pumphouse

1:200



Interior of Pumpehuset First Floor

Access to Ourdoor Stairs

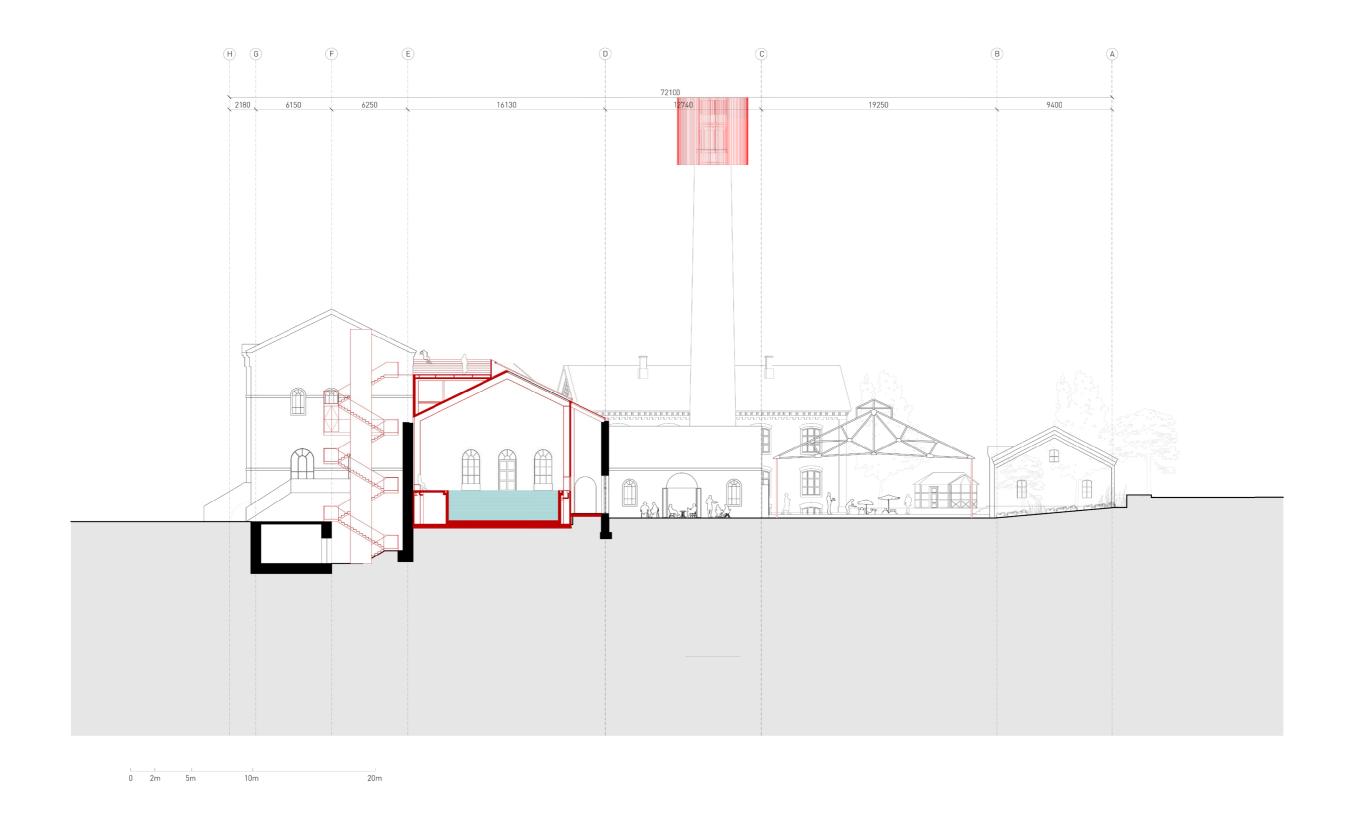


Plan of Roof Pool and First Floor of Pumphouse 1:300



The Roof Pool

An Intimate Contact to the Existing Building
A New Urban Spectacle



Site Section: Access to Roof Pool

1:300

150 5400 34.50 32.40 2400 35x150mm Timber Louver 30.00 750 Escape Ladder Hydrothermal Bath 37-40°C Stainless Steel Tub Existing Chimney Steel Structure Hydraulic Elevator (Circular)

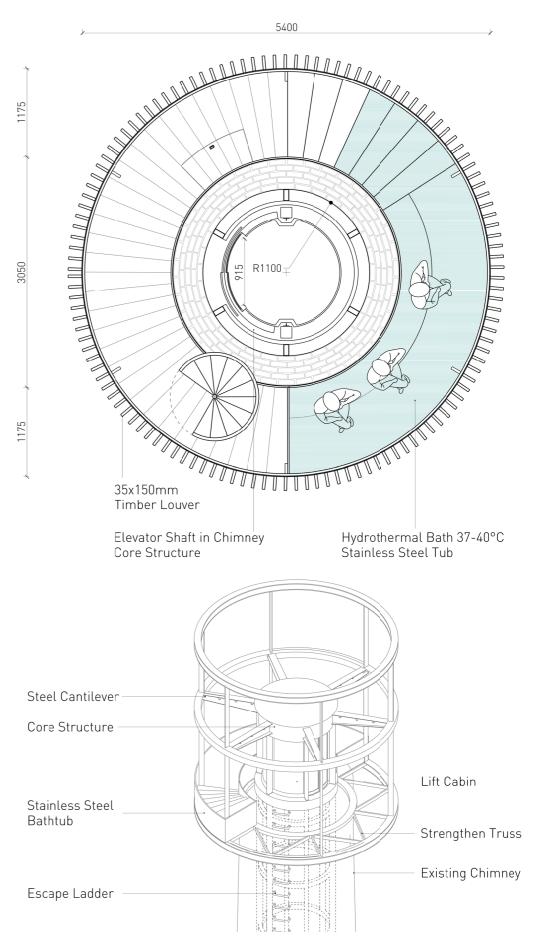
CHIMNEY BATH PLAN & SECTION 1:50



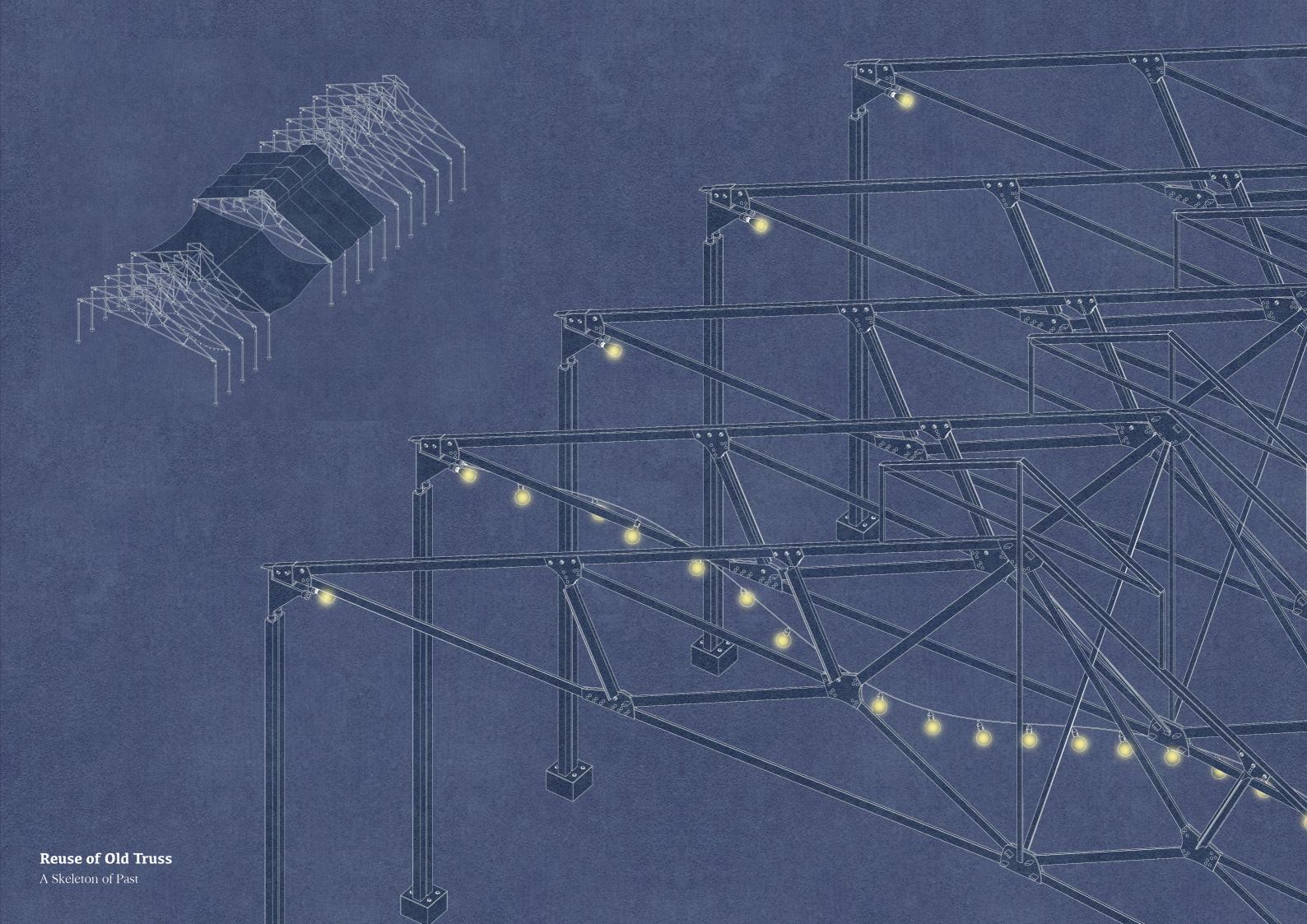
Celebration Moments

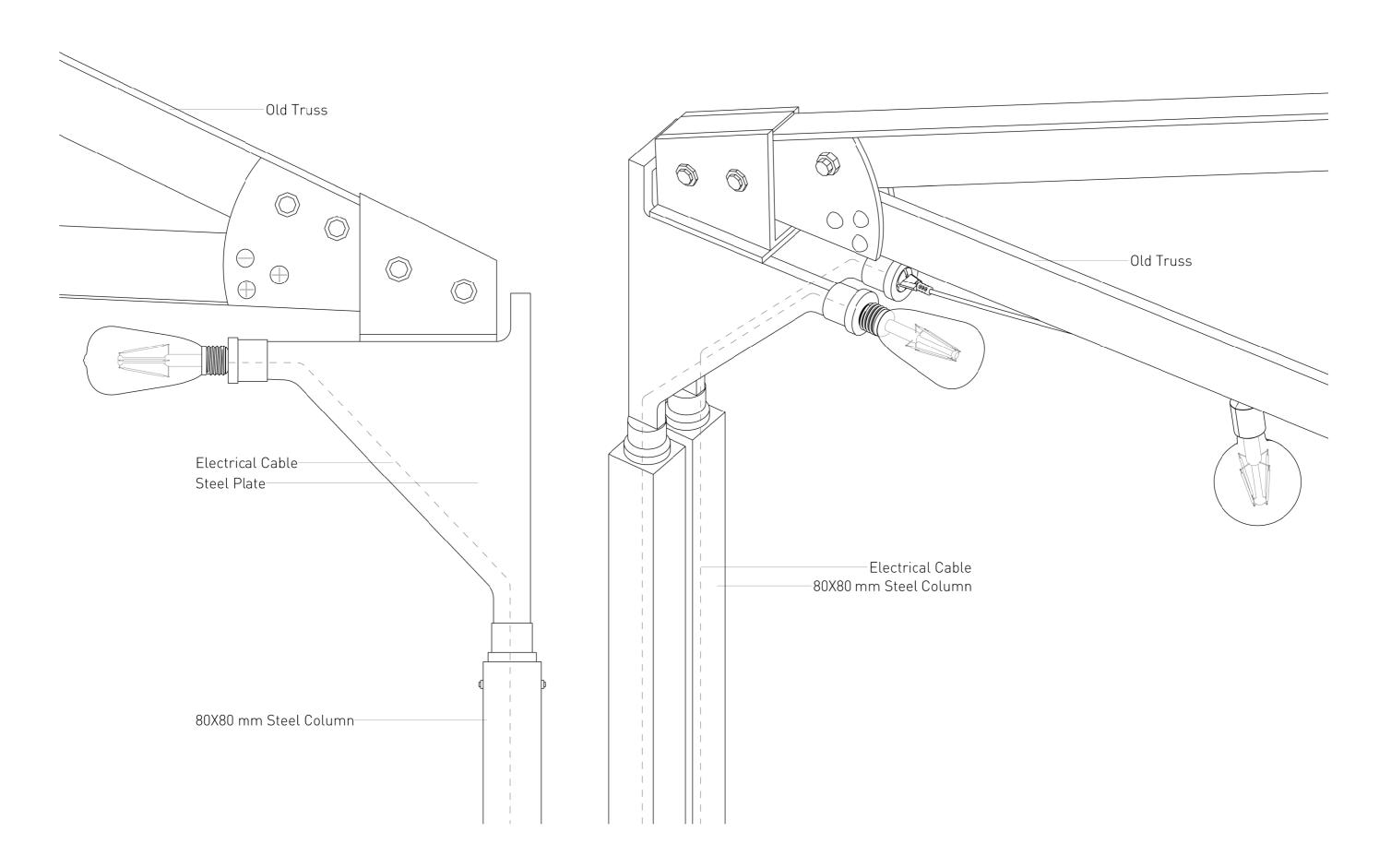
View from the Street





STRUCTURE AXONMATRIC 1:100





DETAIL: REUSE OF OLD TRUSS 1:5



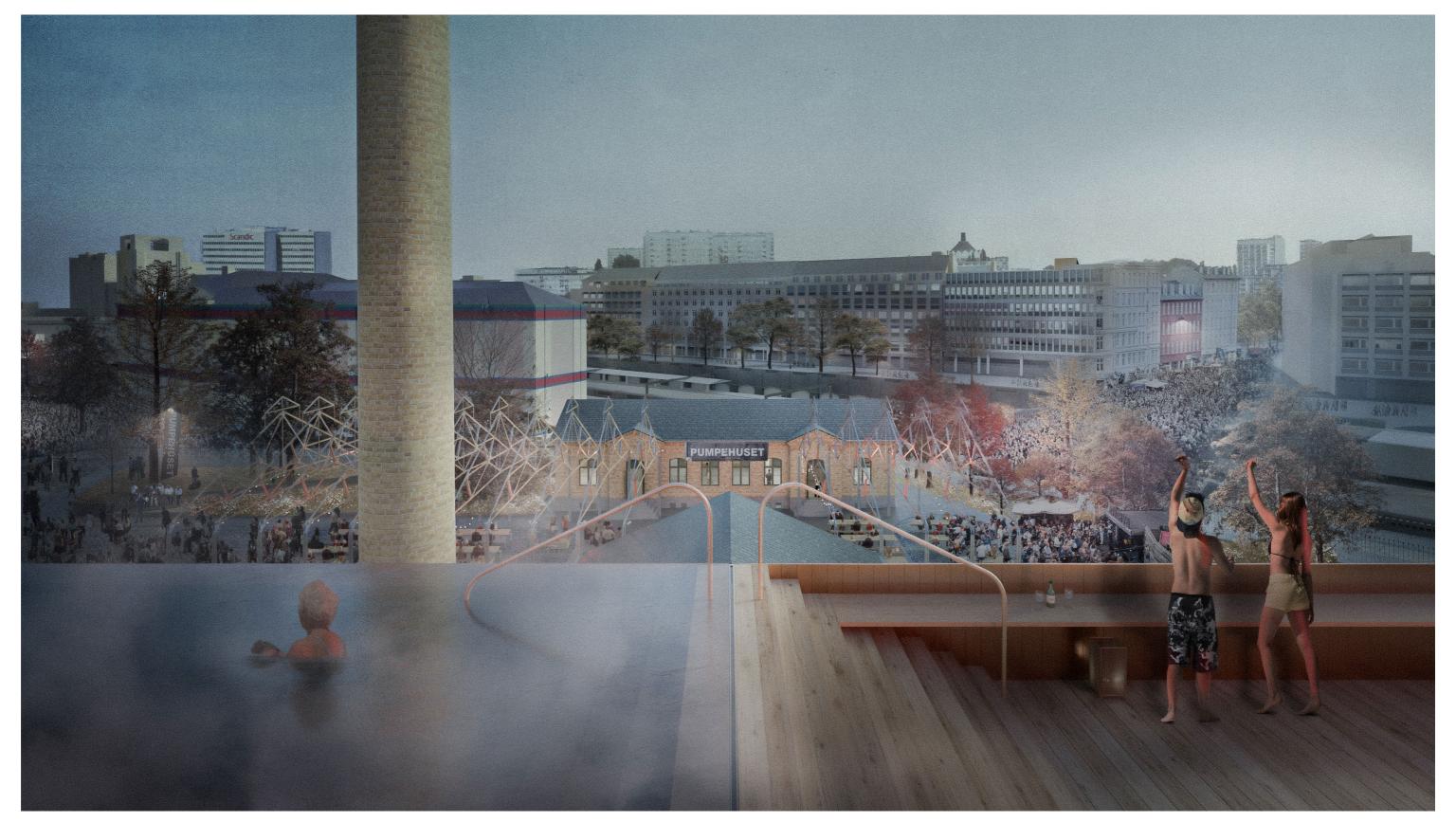
The Frame of Old Roof Truss

View in the Square



Bathers Participating Urban Celebration

View from the Roof



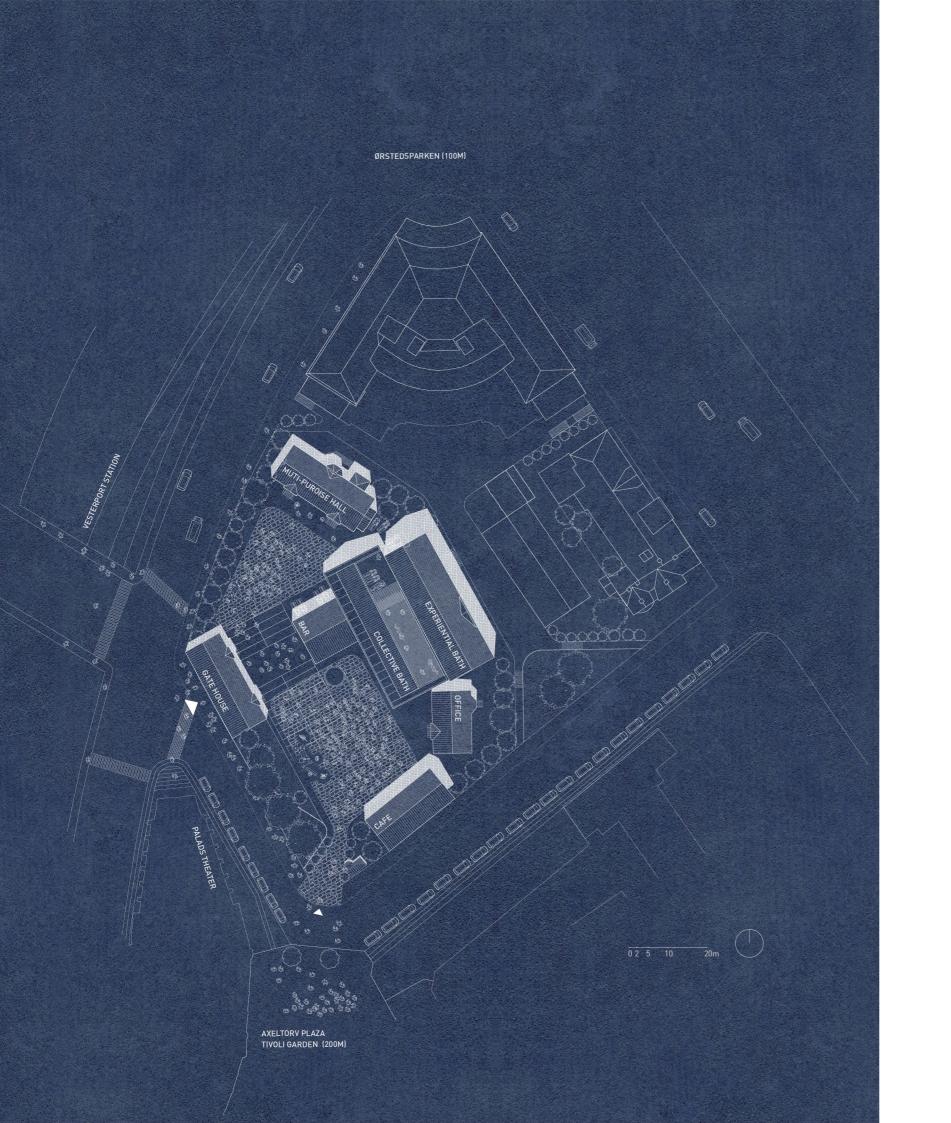
Bathers Participating Urban Celebration

View from the Roof



View From Cafe

the Old Truss and the New Roof Pool



The Design Book
The Independent Group, Interiors Buildings Cities, 2020 Spring
Danyu Zeng

Celebration as Revolution An Urban Link of Distortion Street Event

Waterworks as Public Bath A Combinition of Cleasing and Celebration

Uncover the Past Preserve the Historical Elements and Represent to Public