

NEW SJÖSTAD WATER, WALK WITH ME



NEW SJÖSTAD: WATER, WALK WITH ME

The vision of New Sjöstad is to reconnect current city with the reclaimed seafront and once again make Trelleborg a city on the sea, rather than next to the sea. Through revealing natural potential of Skåne's coastlines, celebration of water and preservation of the industrial and productive heritage of the site, the proposal presents several new vibrant districts on the waterfront. The new connections from the existing city fabric to the newly created public waterfront allow Sjöstad to share new qualities and livable environments with future communities as well as current residents.

The goal for the site is to create three urban characters of development, building on their existing and hidden potentials. We believe that the western part of the site holds the greatest potential to be reconnected to the ecological system of Skåne's coastline habitats. The disruptive industrial area is restored to natural coastline with dunes, heath and woodlands while providing access to the sea. The development in the area is limited to eco-clusters which blend in with the landscape and allow for an alternative way of living. The restoration of natural environments, shaping of the landscape and new wetlands along the river create natural protection against the storm bursts and high water levels as well as provides valuable ecological habitat. Stormwater management network extends into the urban districts and provides a climate resilient system.

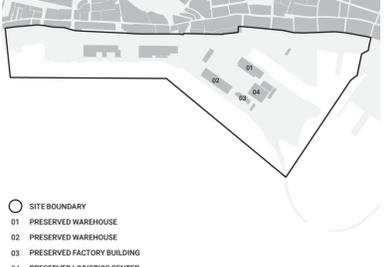
The Seaside district, which preserves existing warehouses, builds on the industrial heritage of the place. The natural coastline blends with the industrial character, new public program and productive functions are introduced in the reused buildings, while new extensions of public spaces, such as piers and bath facility are placed onto the sea.

The area closest to the city, Harbor District, preserves Trelleborg's grid of large urban blocks and integrates new productive and community functions. The neighborhood naturally extends the city fabric towards the harbor and creates an important connection between the new areas, existing city and train station. New bridge with public spine links the district with the surrounding areas.

The New Sjöstad celebrates the water with five kilometers public coastline connected with important public nodes, such as train station square, university area, new library, bath facility, food hall, marina, wetland area and natural beaches, which gives a diverse yet continuous public realm to Trelleborg.

AERIAL VIEW OF THE DESIGN SITE

DESIGN SITE: STRATEGIC SITE



- SITE BOUNDARY
- 01 PRESERVED WAREHOUSE
- 02 PRESERVED WAREHOUSE
- 03 PRESERVED FACTORY BUILDING
- 04 PRESERVED LOGISTICS CENTER

The design (strategic) site of more than 95 hectares is located in a premium location within the city of Trelleborg. The view from the southern coast of Sweden over the Baltic sea and a close proximity to the existing city center provides a great base for establishing new part of the city that is connected and accessible but keeps its unique identity, reminding of industrial history of important Swedish shipyard and recently moved ferry terminal.

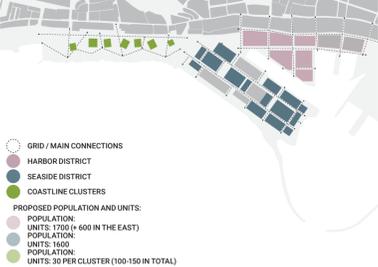
URBAN GRIDS AND MAIN CONNECTIONS



- OLD CITY GRID
- WAREHOUSE GRID
- LANDSCAPE GRID
- PRESERVED BUILDINGS

The strategic site is divided into three parts with unique characters and block grid that emerges from the position within the site. The old city grid is inspired by the adjacent neighborhood and connects the former harbor to the existing city center. The warehouse grid respects the preserved buildings that create a base of the network but slightly shifts to protect against the wind from the sea. The landscape grid connects the existing neighborhood to the waterfront and naturally curves as the landscape changes.

NEIGHBORHOODS WITH CLEAR IDENTITY



- GRID / MAIN CONNECTIONS
- HARBOR DISTRICT
- SEASIDE DISTRICT
- COASTLINE CLUSTERS

The urban grids provide a base for three different neighborhoods on the site. The new city neighborhood consists of mixed-use urban blocks that are inspired by existing blocks in Trelleborg. Blocks contain housing with various typologies for production and commercial activities. Harbor neighborhood provides residential and mixed-use functions with big scale production in the preserved buildings on site. The coastline eco neighborhood is designed to provide ecological way of living in smaller communities in close distance to city. The proposed density is higher in the Harbor District closest to the train station, providing enough housing units so that the western coastal area can be revitalized into its natural conditions.

SOCIAL NODES AND PUBLIC SPACES



- URBAN BLOCKS
- IMPORTANT PUBLIC BUILDING
- CONNECTED PUBLIC REALM
- MAIN URBAN CONNECTIONS
- WATERFRONT PUBLIC PROMENADE

The different neighborhoods are connected by continuous public space spine that forms a base for the whole project. The spine starts at C.B. Friis-ströket in Trelleborg's center and runs through the neighborhood and connects community squares with bigger plazas. The public promenade along the quay and waterfront connects the wetland park with the urban areas and provides a new way how to explore the site.

ECOLOGICAL LANDSCAPE AND WATER MANAGEMENT



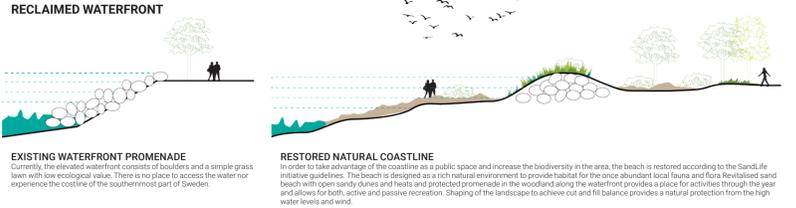
- WETLAND PARK / NATURE RESERVE
- LINEAR PARK
- SLOW DOWN: SWALE / WATERWAY / CANAL
- DETAIN: WATER RETENTION / RAINGARDENS
- DISCHARGE: DETENTION POND / WETLANDS
- PROTECTED DUNE + 3.0m
- LANDSCAPE FLOOD PROTECTION +3.0 - +4.0m
- RESTORED SAND BEACH

The western part of the site presents a great potential to restore natural coastline and connect to the Skåne's sea habitats. The restoration of natural environments, shaping of the landscape and new wetlands along the river create natural protection against the storm bursts and high water levels as well as provides valuable ecological habitat. Stormwater management network extends into the urban districts through vegetated swales and retention ponds and provides a climate resilient solution.

SECTION A-A SCALE 1:1000



MICRO-CLIMATE STRATEGIES RECLAIMED WATERFRONT



EXISTING WATERFRONT PROMENADE
Currently, the elevated waterfront consists of bollards and a simple grass lawn with low ecological value. There is no place to access the water nor experience the coastline of the southernmost part of Sweden.

RESTORED NATURAL COASTLINE
In order to take advantage of the coastline as a public space and increase the biodiversity in the area, the beach is restored according to the Sandlife initiative guidelines. The beach is designed as a rich natural environment to provide habitat for the once abundant local fauna and flora. Revitalized sand beach with open sandy dunes and heaths and protected promenade in the woodland along the waterfront provides a place for activities through the year and allows for both, active and passive recreation. Shaping of the landscape to achieve cut and fill balance provides a natural protection from the high water levels and wind.

INTEGRATED STORMWATER MANAGEMENT

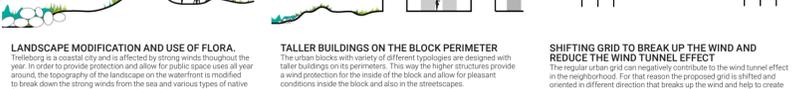


SLOW DOWN: SWALE / WATERWAY / CANAL
As an essential part of the project, we propose an integrated stormwater management system that is designed to handle the stormwater on site as well as provide protection to the surrounding neighborhoods. The strategy "Slow Down" consists of network of swales and canals that direct the stormwater runoff from public spaces and streets and transport it to the retention basins and wetlands without putting pressure on the city sewage system.

DETAIN: WATER DETENTION / RAIN GARDEN / TANK
The strategy "Detain" is designed to store the stormwater during heavy rainfalls and storms and slowly discharge it into the system afterwards. The stormwater that is purified is stored in the underground tanks and reused for irrigation or other purposes. Similarly, the rainwater in the blocks is stored in the underground systems and reused in the households for flushing and other purposes and irrigation of the greenery.

DISCHARGE: DETENTION POND / WETLANDS
The strategy "Discharge" is designed to store the stormwater in the wetlands and slowly infiltrate into the natural ground water or discharged through the system of ponds and wetlands directly into the sea.

WIND PROTECTION AND CLIMATE COMFORT



LANDSCAPE MODIFICATION AND USE OF FLORA.
Trelleborg is a coastal city and is affected by strong winds throughout the year. In order to provide protection and allow for public space uses all year around, the topography of the landscape on the waterfront is modified to break down the strong winds from the sea and various types of native flora is planted to protect the pedestrian walkway.

TALLER BUILDINGS ON THE BLOCK PERIMETER
The urban blocks with variety of different typologies are designed with taller buildings on its perimeter. This way the higher structures provide a wind protection for the inside of the block and allow for pleasant conditions for walking and also in the streetscapes.

SHIFTING GRID TO BREAK UP THE WIND AND REDUCE THE WIND TUNNEL EFFECT
The regular urban grid can negatively contribute to the wind tunnel effect in the neighborhood. For that reason the proposed grid is shifted and oriented in different direction that breaks up the wind and help to create better outdoor environment.

STRUCTURE PLAN SCALE 1:5000

- 00 STAGE 00
- 01 STAGE 01
- 02 STAGE 02
- 03 STAGE 03
- 04 WATER EDGE
- 05 WATER SURFACE (PONDS, WETLANDS, CANALS)
- 06 WATERFRONT PROMENADE
- 07 TRAIN STATION
- 08 CAMPUS AREA
- 09 HARBOR PIER
- 10 LINEAR PARK
- 11 REVITALISED TRELLEBORG BEACH
- 12 PIER WITH SALINA AND PLAZA
- 13 WETLAND PARK
- 14 SCHOOL WITH SPORT AREA (SPORT HALL)
- 15 KINDERGARTEN
- 16 PARK WITH DETENTION POND
- 17 TRELLEBORG 2.0 CO-WORK HUB
- 18 FOOD HALL, COMMUNITY KITCHEN
- 19 REFURBISHED LOGISTIC CENTER
- 20 REFURBISHED MIXED-USE BUILDING
- 21 ART DISTRICT WITH LIBRARY
- 22 NEW BRIDGE CONNECTION
- 23 PUBLIC HARBOR BATH
- 24 MARINA
- 25 NATURAL LEARNING FACILITY
- 26 BIRD-NESTING WETLAND
- 27 BEACH FACILITY AND RESTAURANT

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