



FAR A 4:1 (4) LOT COVERAGE 100% HEIGHT ~40'



 SCHEME

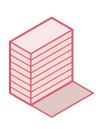
 FAR
 B
 4:1 (4)

 LOT COVERAGE
 100%

 HEIGHT
 ~80'



FAR C 4:1 (4) LOT COVERAGE 75% HEIGHT ~80'



FAR D 4:1 (4)
LOT COVERAGE 100%
HEIGHT ~80'

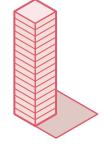


 SCHEME

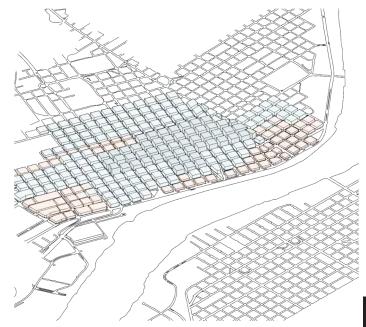
 FAR
 E
 4:1 (4)

 LOT COVERAGE
 50%

 HEIGHT
 ~110'



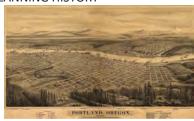
SCHEM
FAR E F 4:1 (4)
LOT COVERAGE 25%
HEIGHT ~160'



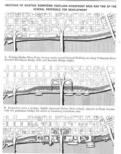
ZONING

CULTURE/PLACE

PLANNING HISTORY









Portland's Planning and Developmental History

Similarly to many U.S. cities, Portland has a longstanding history of racist zoning and land use practices that have created and then reinforced racial inequalities. Racially restrictive covenants, redlining, and exclusionary zoning are examples of this. Portland is a recipient of federal funding, obligating it to contribute to fair housing and to meet the Federal Fair Housing Act, and as a large city it has the responsibility of fostering a diverse and inclusive community.

On the developmental side of the story, Portland has gone through series after series of proposed plans, affecting both the waterfront and the city itself. Asa Lovejoy and Frances Pettygrove laid down the first 16 blocks of the city on a 200 foot square block in 1845, setting Portland up to be a walkable and accessible city. The waterfront itself has always been a point of tension in terms of how to address development and successful planning. Many plans were proposed but Portland has fallen short of its planning potential and the waterfront remains a topic to be addressed.

CULTURE/PLACE

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Portland's "Japantown" (Nihonmachi)

Japantown existed before World War II and was in the area that is now know as Old Town-Chinatown. During the 1890s. Labor contractors found jobs for Japanese immigrants on farms, forests, and railroads. Many of these immigrants were processed through Portland creating a need for bathhouses, hotels, laundries and other services. Because of the low rent area and the high demand for these services, many Japanese families opened small businesses that focused on service that was oriented toward the Japanese population.

Portland's African American Population

African Americans who came to Portland settled near Union Station due to the work with the Pullman Company within railroads or with downtown hotels. In the 1900s the First African Methodist Episcopal Zion Church had relocated to 13th and Main where many African American men lived and worked. The Bethel AME Church was located on 68 North Tenth, in a neighborhood where many African American women operated rooming houses and where the Golden West Hotel (near the Park Blocks) housed between 40 and 50 men. Similar to the Japanese Population, many African Americans moved to East Portland in search of homeownership after the Broadway Bridge opened in 1913. This was due to exclusionary acts from the Portland Realty Board who discouraged sales to Asian and African people.

Portland's "Chinatown"

Chinatown stretches from Ash to Market Street. Thousands of Chinese men came to the West coast largely due to the California goldfields in the 1850s and the railroad labor throughout the West in the mid 1860s. Chinese men settled around Second and Oak Street which had become so segregated by 1880 that the federal census designated it a separate enumeration district, containing over 1,500 Chinese men and no one else.

CULTURE/PLACE



Portland's strong presence as a port city are evident in this photo showing the accumulation of docks and industry related warehouses lining the river. Public access was allowed but was limited to streets that extended from the cities grid to the shore.



The Port of Portland was established in 1891 to construct and permanently maintain a 25 foot ship channel in the Willamette and Columbia rivers.



1898, East Portland Double decker docks line the river allowing ships to access cargo in high and low water conditions.



1930, Guild's Lake Area Between 1906-1920's this area was filled in with Between 1906-1920's this area was tilled in with soil sluiced off the hillsides and dredged from the Willamette. It was proposed to become a park.

CULTURE/PLACE

WATERFRONT



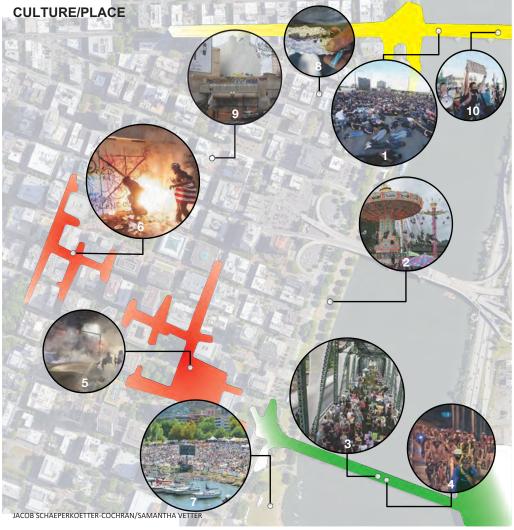
1928- Portland's West Side Waterfront Construction

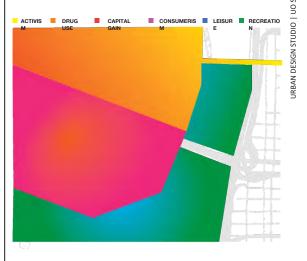


Circa 1940s- Portland's West Side Waterfront

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CULTURE/PLACE





EVENTS & ACTIVITY

- BLM "Lie-In" 2020
- **Portland Rose Festival**
- PDX Bridge Festival "Hawthorne Park" 2010
- Naked Bike ride (Critical Mass, Bridge Ride)
- Riot Declared at City Hall 2020 5.
- **Destruction** at Pioneer Courthouse Square
- **Waterfront Blues Festival**
- Open Drug Use/ Sales
- **Open-Air Fentanyl Market Bust**

AARHUS HARBOR BATH

aarhus, denmark







Significance

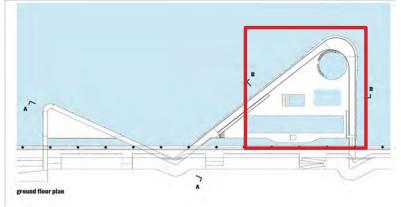
Public interaction with water, opportunities for outdoor recreation, consideration for change of

seasons, accommodations for multiple ages/abilities



 $\frac{\text{https://www.architectural-review.com/buildings/harbour-bath-in-aarhus-denmark-by-bjarke-ingels-group}{\text{MADDY JOHNSON}}$





Size: 280000 sqft

COPENHAGEN HARBOR BATH







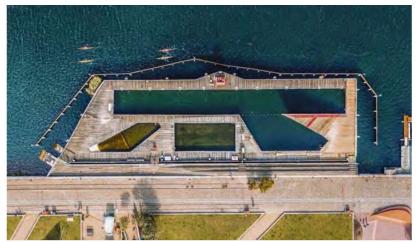


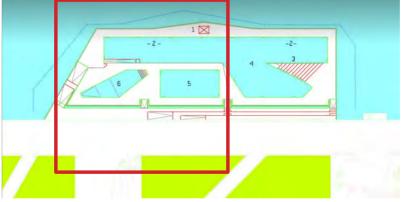
Public welcomed to waterfront, spaces for multiple ages, safety considerations, flexible programming, access to free recreation





MADDY JOHNSON





Size: 25000 sqft

PAPROCANY







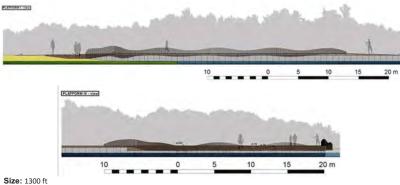
Significance

Network of pathways that enhance waterfront experience, areas for specific recreational activities,



https://landezine.com/paprocany-lake-shore-byrs/ MADDY JOHNSON





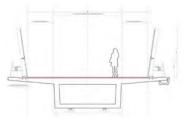
long

WATERFRONT

PRECEDENTS LIGHTPATHAKL

auckland, new zealand







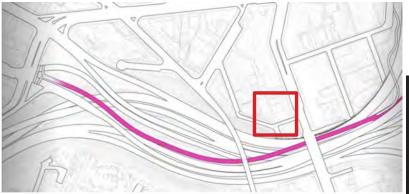
Significance

Highway revitalization/reuse, pedestrian/bike routes seperated from vechicles, 24 hour



https://www.bikeauckland.org.nz/ride/lightpath-te-ara-i-whiti MADDY JOHNSON

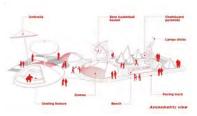




Size: 2000 ft long

RED PLANET







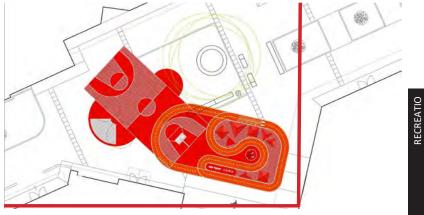
Significance

Recreation connected to groud floor commercial spaces, activation of underused circulation space,



https://www.archdaily.com/891645/red-planet-100architects?ad_medium=gallery





Size: 2500 sqft

PROXY









Activation of unused urban spaces, ground floor retail and restaurants, spaces for community

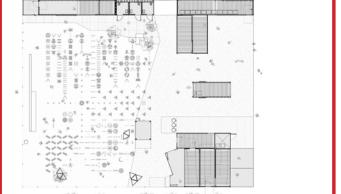


https://envelopead.com/work/proxy

MADDY JOHNSON







TRFFT

BO01

Malmö, Sweden









SIGNIFICANCE This district is run on 100% re-

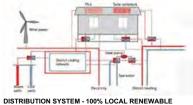




PV ARRAYS AND WIND TURBINE PROVIDE

100 % locally renewable energy





ENERGY

Size: 54 acres



PONDS BUFFER AND PURIFY WATER



ALL HOMES CAN TRACK WATER

CONSUMPTION

Cold air also utilizes sea water.

tricity if from local wind turbines and PV Arrays. The residents can track all of their energy and water consumption. For rainwater, they



THE FORKS

Winnipeg, Manitoba, Canada















The Forks main focus is awakening and activating the waterfront during every season. In the winter, people can walk, skate, cross-country ski, have curling matches and play hockey on the river. The goal is for the waterfront to be a meeting place full of social interaction using a mixed-use approach.







Size: 62.5 acres





WARMING HUT COMPETITION

https://www.theforks.com/uploads/documents/go-to-the-waterfront-2014.pdf

ALYSSA RUPP

BROOKLYN BRIDGE PARK

Nordhaven, Copenhagen















SIGNIFICANCE

The park is activated by a greenway and oversized piers, each with designated nature-based play. The furniture and terraces are reused and found material. There are sound berms to deflect traffic noise. The sea wall was removed and replaced with a flood-tolerant stone rip-rap shoreline. The park also acts as a storm buffer for climate change.











FOR PANT STONE RIP-RAP SHORELINE

Size: 85 acres



VANCOUVER OLYMPIC VILLAGE (SE FALSE CREEK)

Vancouver, BC







Significance

Dense example of sustainable urban development. Entire neighborhood awarded Leed Platinum status, extensive green roofs and stormwater management on reclaimed industrial waterfront. Hinge park is a developed wetland, and habitat island serves as an ecological patch.



SPENSER GOULD





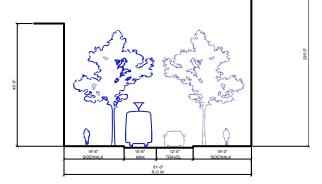




https://vancouver.ca/home-property-development/southeast-false-creek.aspx

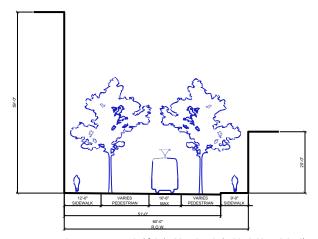
BASE DRAWINGS

STREET SECTIONS



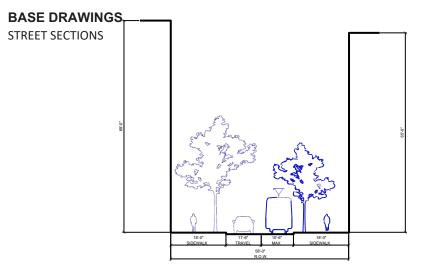


SW MORRISON, BTWN 2nd & 3rd, LOOKING WEST Scale: 1/16" = 1'-0"

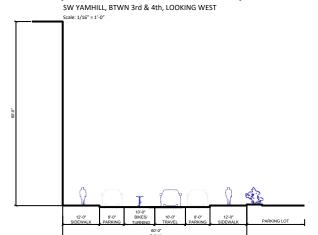




SW YAMHILL, BTWN 2nd & 3rd, LOOKING WEST (BLOCK CLOSED TO CARS) Scale: $1/16^{\circ} = 1^{\circ} \cdot 0^{\circ}$







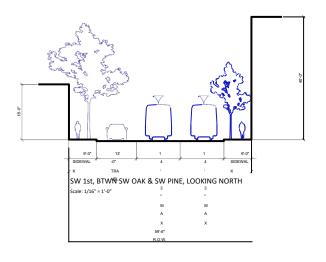


SW HARVEY MILK, BTWN 3rd & 4th, LOOKING WEST

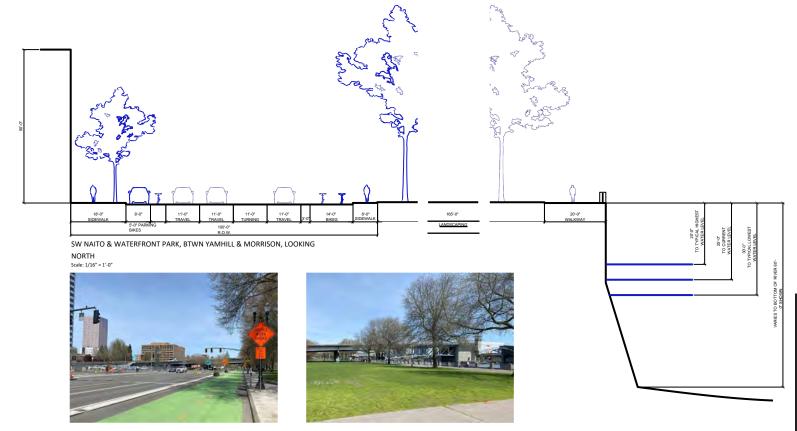
Scale: 1/16" = 1'-0"

BASE DRAWINGS

STREET SECTIONS

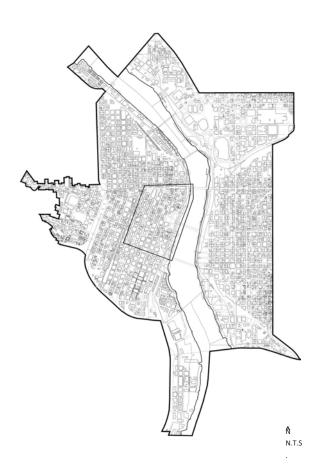














2D LINEWORK PROJECT AREA



BASE DRAWINGS

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SUSTAINABLE URBAN DESIGN FRAMEWORK

TOPIC AREAS DISTRICT & IN URBAN DESIGN **REGION & CITY** NEIGHBORHOOD Organized by Scale **BLOCK & STREET PROJECT & PARCEL** 1.10 Compact Development 1.20 Robust Pedestrian Networks 1.30 Multimodal Street Design 1.40 Active Street Edges (For Density & Proximity) 1.201 Small & Defined Blocks 1.301 Pedestrian-Friendly Streets 1.41 High Internal Connectivity 1.11 Robust Transit Networks Dense & Street-Activating 1.202 Street Network Connectivity 1.302 Bicycle-Friendly Streets **Energy Use &** 1.12 Robust Bicycle Networks Buildings 1.21 High-Density Zoning & Platting 1.303 Transit-Friendly Streets Greenhouse 1.13 Balanced Vehicular Networks 1.22 District-Scale Parking 1.304 Limiting Motor Vehicle 1.32 Site-Scale Parking Design 1.14 Regional Land Use Mix Mat & Design Impact Gas 1.23 High District Land Use Mix 1.31 Dense & Street-Activating Bldgs (Transportation & Land Use) 1.32 Site-Scale Parking Design 210 Compact Development 2.20 Robust Stormwater Networks 2.30 High Surface Permeability 2.40 Rainwater Capture & Reuse (For Limited Impact on Natural 2.21 Daylight & Restore Waterways 2.30 High Surface Permeability 2.31 Robust Urban Forest 2.32 Green Stormwater Infrastructure 231 Robust Urban Forest Water 211 Avoid Flood Prone Areas 2.32 Green Stormwater Infrastructure 3.10 Compact Development 3.20 Ecological Corridors & Patches 3.30 High Surface Permeability 3.30 High Surface Permeability (For Limited Impact on Natural 3.21 Daylight & Restore Waterways 3.31 Robust Urban Forest 3.31 Robust Urban Forest Systems) 3.11 Avoid Ecologically Sensitive Areas 3.32 Microhabitat Creation 3.32 Microhabitat Creation **Ecology &** 3.11 Avoid Ecologically Sensitive 3.321 High Vertical Complexity 3.321 High Vertical Complexity Habitat Areas 3.322 Native Vegetation 3.322 Native Vegetation 3.12 Robust Ecological Networks 3.33 Wildlife Crossings 3.33 Wildlife Crossings 3.34 Robust Ecological Area Buffers 3.34 Robust Ecological Area Buffers 3.35 Limited Light Pollution 3.35 Limited Light Pollution 4.10 Compact Development 4.20 Street & Block Orientation 4.30 Dense & Energy-Efficient 4.40 Infill Development **Building Types** (For Limited Embodied Energy in 4.30 Dense & Energy-Efficient 4.21 High-Density Zoning & Platting 4.31 Urban Microclimates Infrastructure) **Building Types Energy Use &** 4.311 Cool & Green Surfaces Production 4.312 Robust Urban Forest 4.313 Street Ht-to-Width Ratio (Non-Transportation) + See Energy Use & Greenhouse Gas (110 - 1.41): To Maximize Access, Affordability, Activity, Safety, and Social Mobility 5.10 Compact Development 5.20 Balanced Block Size 5.30 Active & Attractive Open Space 5.40 Infill Development Equity & (For Proximity, Access & Reduced 5.21 High-Density Zoning & Platting 5.31 Robust Urban Forest 5.23 Mix of Housing Unit Types Infrastructure Cost) 5.22 Limited Location of Point 5.32 Affordable Housing Typologies Active & Attractive Open Space Health 5.11 Equitable Distribution of Source Pollution 5.33 Site Design For 5.32 Affordable Housing Typologies

5.23 Mix of Housing Unit Types

5.11 Equitable Distribution of Uses & Services Community Safety & Inclusion

5.23 Mix of Housing Unit Types

5.33 Site Design For

Community Safety & Inclusion

DOWNTOWN PORTLAND URBAN DESIGN STUDIO

SITE ANALYSIS: SUSTAINABLE URBAN DESIGN STRATEGIES

Standard and Additional and Service

SPRING 202 USTAINABLE URARNISM SEMINA ABOM 4/50

UNIVERSITY OF GREGON

Uses & Services

Site Analysis Report + Sustainable Urban Design Analysis Report:

https://blogs.uoregon.edu/nlarco/downtown-portland-urban-design-studio-university-of-oregon/