

TODAY'S SCHEDULE

3:00 - 3:30 pm

Introductions

Nancy Rottle, Professor, Landscape Architecture TA: Tatyana Vashchenko, MLA Candidate

Context Presentation

Jess Vetrano, MLA Candidate Sophie Krause, MLA Candidate

3:30 - 3:50

Refreshments Gallery Walk

3:50 - 5:50

Small Group Reviews

5:50 - 6:00

Wrap up

GREENER BELLTOWN: BLUER SOUND

2017 Studio Schedule

September 1 - 17

September 27 - November 12

November 13

November 14 - December 11

December 11

Study Tour

Copenhagen + Malmö Bornholm

Copenhagen Precedents
District Analysis & Frameworks
Site Scale / Schematic Design

Mid-review / Workshop

Site Scale / Schematic Design

Final Review

GREENER BELLTOWN: BLUER SOUND

GREENER BELLTOWN: BLUER SOUND

City / Nature for Urban Resilience

Urban Greening



Stormwater Mitigation



Social Amenity



2017 Studio Objectives

explore urban design strategies for climate adaptation and urban nature

working at various scales to cultivate social resilience, biodiversity, human health, and artfully integrate water into the cityscape for hydraulic function and human delight

GREENER BELLTOWN: BLUER SOUND



2030 DISTRICT GOALS

Manage the combination of stormwater and potable water use to 50% below the District baseline

50% in Belltown is about

67 million gallons

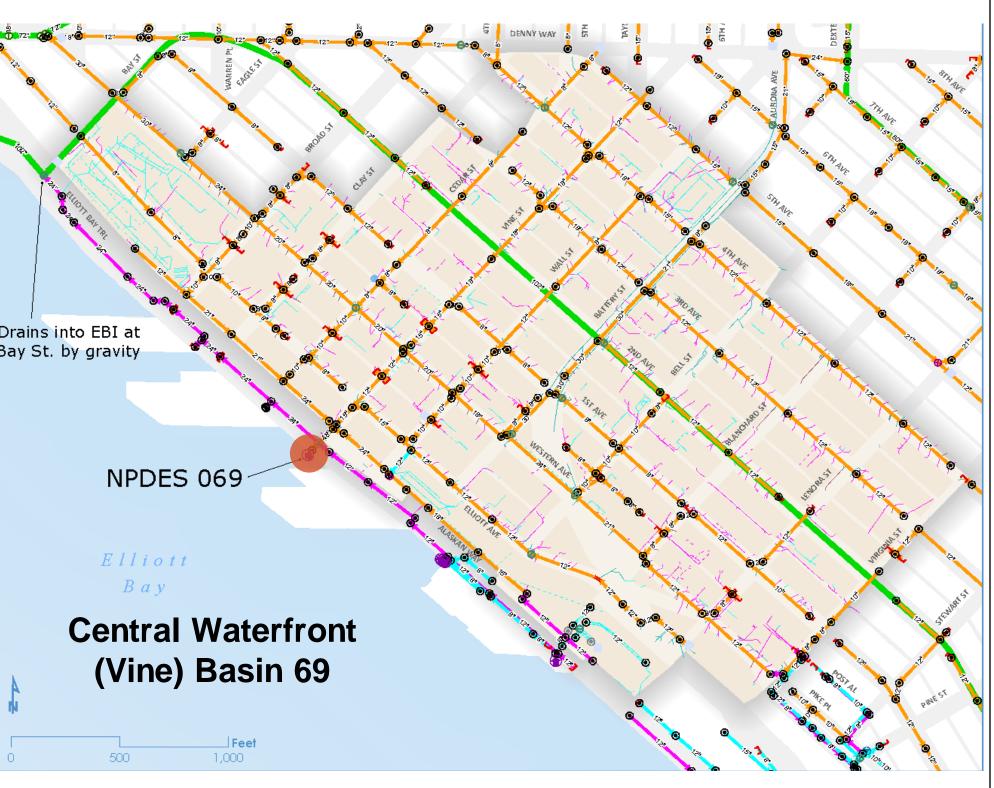
GREENER BELLTOWN: BLUER SOUND

PRECIPITATION 161,300,000 GAL/YR **STORMWATER RUNOFF** 124,500,000 GAL/YR (22.8% Reduction; 5.8% additional stormwater reduction)

2030 DISTRICT GOALS

VINE STREET BASIN (165 ACRES) 80% GREEN ROOF 100% OF ALL NON-ROW PROPERTY

GREENER BELLTOWN: BLUER SOUND



GREENER BELLTOWN: BLUER SOUND

City / Nature for Climate Resilience

SPU STORMWATER STORAGE GOALS: 130,000 GALLONS

STUDY TOUR: 09/01 - 09/17



GREENER BELLTOWN: BLUER SOUND



The Trip: Copenhagen + Malmö

Cycling



Office Visits/Tours





Lectures





GREENER BELLTOWN: BLUER SOUND

City / Nature for Climate Resilience

The Trip: Stormwater Management

Lindevangsparken

Taasinge Plads

Bo01

Augustenborg

Skt. Annae Plads

Israel Plads

Norreport Station

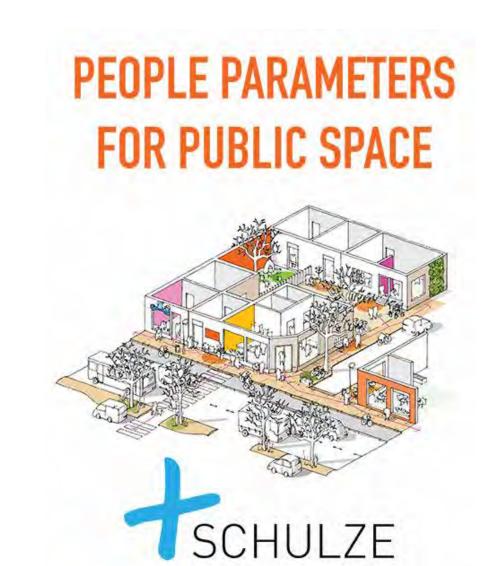


GREENER BELLTOWN: BLUER SOUND

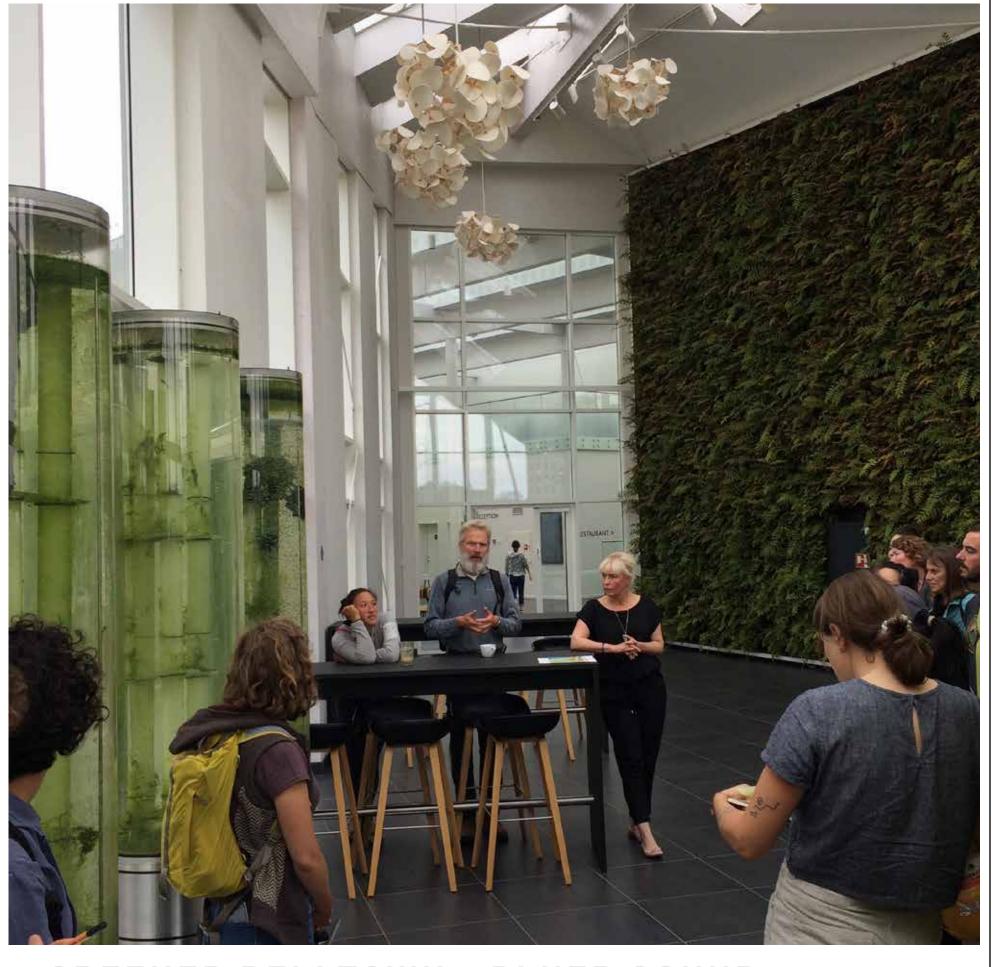
City / Nature for Climate Resilience

The Trip: Schulze + Grassov

International Work and "People Parameters for Public Space"



GRASSOV



GREENER BELLTOWN: BLUER SOUND

City / Nature for Climate Resilience

The Trip: Green Solutions House, Bornholm

Living Machines

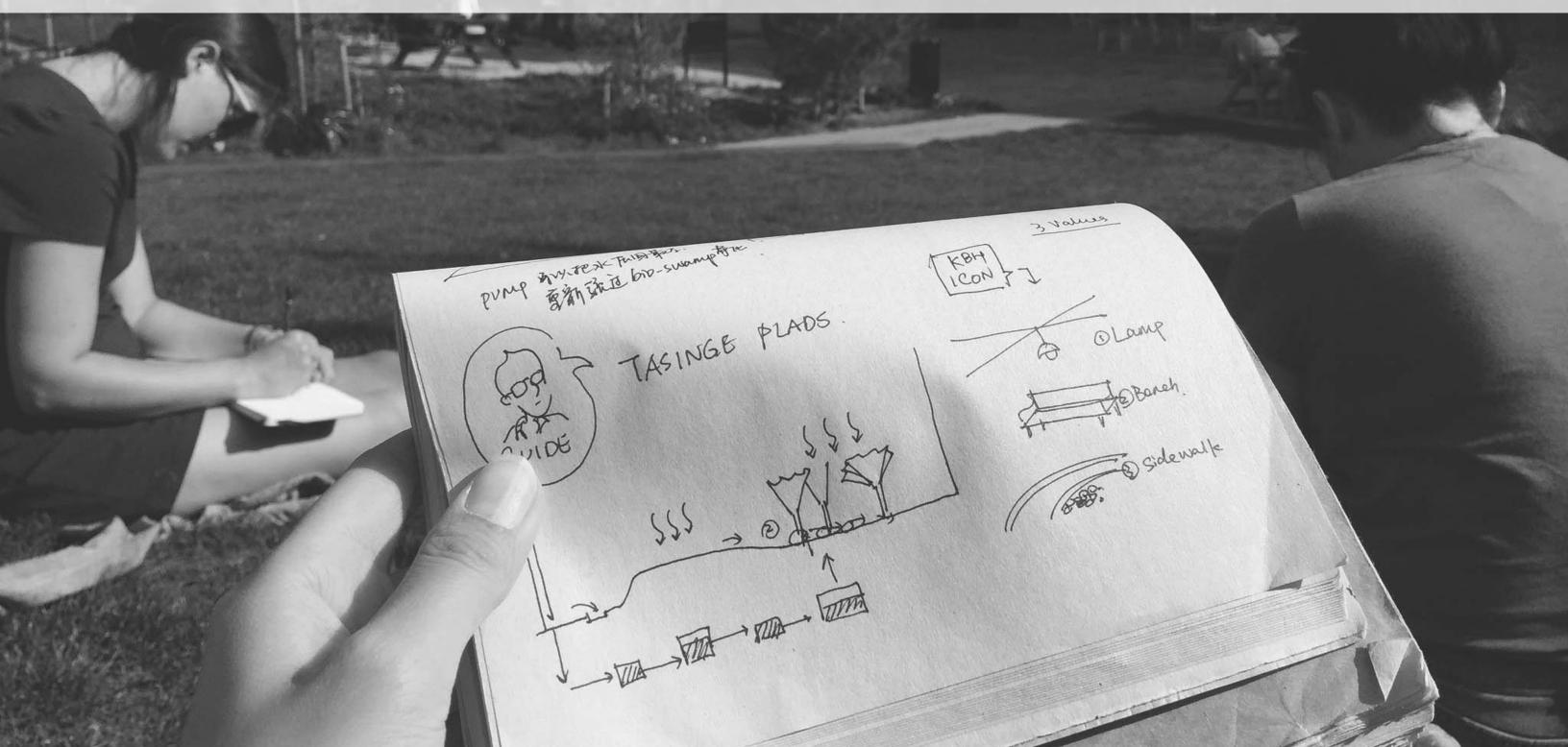
Constructed Wetlands

Green Walls

Renewable Energy



PRECEDENT STUDIES

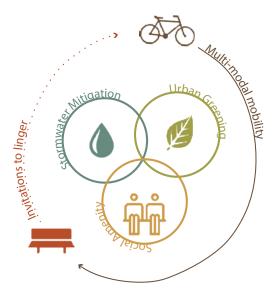


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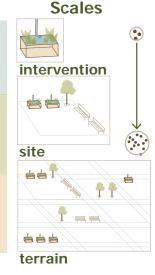
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Precedent + Terrain Study Scan|Design Master Studio 2017 Urban Nature for Climate Resilience



Integrated Function





Due Dates + Deliverables

September 1: assignment given out

September 4: deadline to submit precedent site choices (one site will be assigned, choose 3 in order of preference and submit by email)

September 6: groups of 2 assigned to each site /start site and terrain research

September 16: final day to finish on-site research

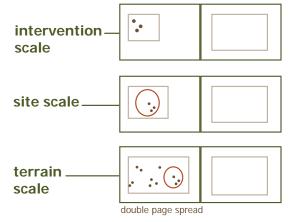
October 2: in-class presentations /book pages due

in Copenhagen:

diagram, sketch, observe, interview, photograph, research, share on Instagram

in Seattle:

finalize case study, assemble book pages using specified template, present your research in 3-4 spreads total



Precedent + Terrain Study

this assignment challenges you to move beyond the site and dig deeper into precedent studies through shifting scales and perspectives.

- 1.Begin by choosing your preferred sites from the list and submit these preferences by e-mail to sdstudio@uw.edu. You will receive your site assignment by September 6.
- 2. When you visit your site start by choosing a small scale intervention that exhibits one or more of the integrated site goals. Closely document its form and function.
- 3. Then move to the site scale, focused on how the integrated goals manifest how are they interwoven with the site's forms and functions? Note movement through space, and where people are lingering. What are the key design elements of the site, and how are they working?
- 4.Next, start exploring the streets, sidewalk, parks, plazas and gardens around your site documenting interventions that resonate with integrated goals and site intervention you have identified to develop a sense of the terrain around your site. Record how these contribute to stormwater, urban greening, social amenity and movement through space.
- 5.Keep track of how the integrated goals can be experienced at a range of scales through photos (social media #tags), sketches and diagrams and any other visual media you feel compelled to use.
- 6.Compile your research into 3-4 double paged book spreads. Organize each page thoughtfully, preferably in order of magnitude (see back).
- 7. Turn in book pages and present research findings to the class.

see back for due dates + deliverables

Copenhagen Precedent

SUND Nature Campus Park
Enghaveparken Cloudburst Plan
Novo Nordisk Nature Park
OsterGRO
Skt. Kjeld's Plads

Norreport Station Hans Taysen's Park

Biblioteket Plaza

Lindevangsparken

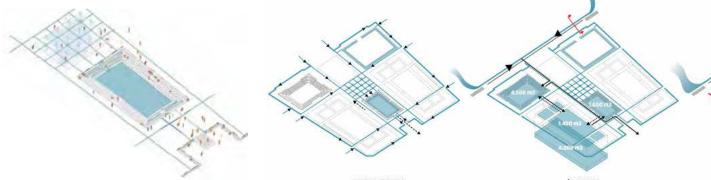
Israel Plads











GREENER BELLTOWN : BLUER SOUND

City / Nature for Climate Resilience

Copenhagen Precedents

SUND Nature Campus Park

Enghaveparken Cloudburst Plan

Novo Nordisk Nature Park

OsterGRO

Skt. Kjeld's Plads

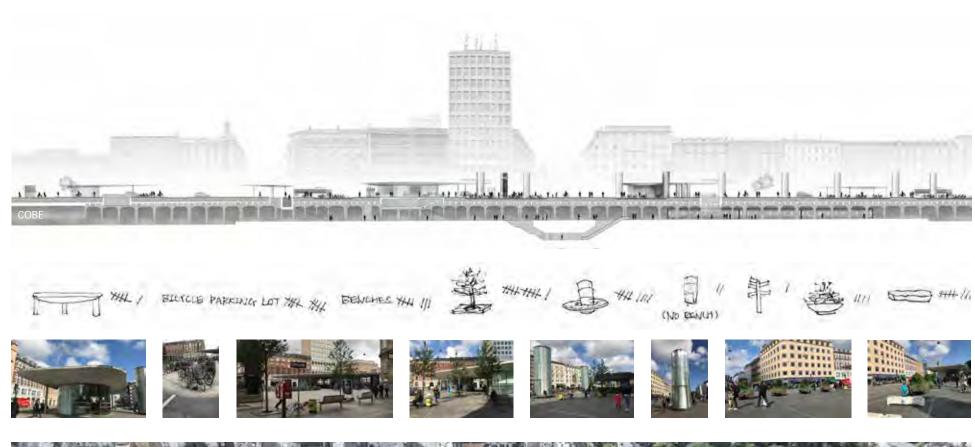
Norreport Station

Hans Tavsen's Park

Biblioteket Plaza

Lindevangsparken

Israel Plads





GREENER BELLTOWN: BLUER SOUND

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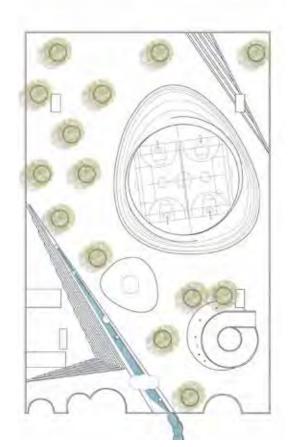
Norreport Station

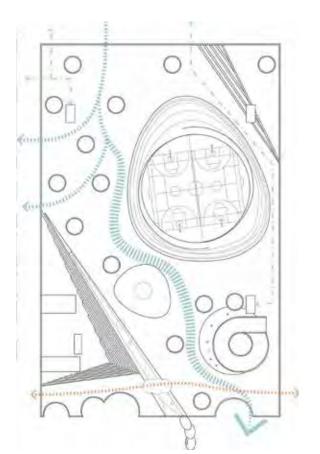
Hans Tavsen's Park

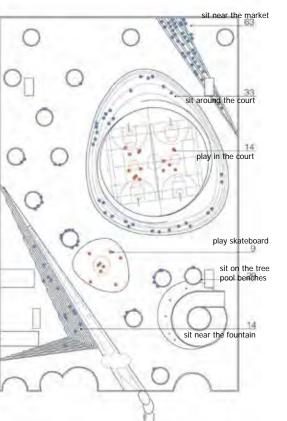
Biblioteket Plaza

Lindevangsparken

Israel Plads











GREENER BELLTOWN : BLUER SOUND

City / Nature for Climate Resilience

Copenhagen Precedents

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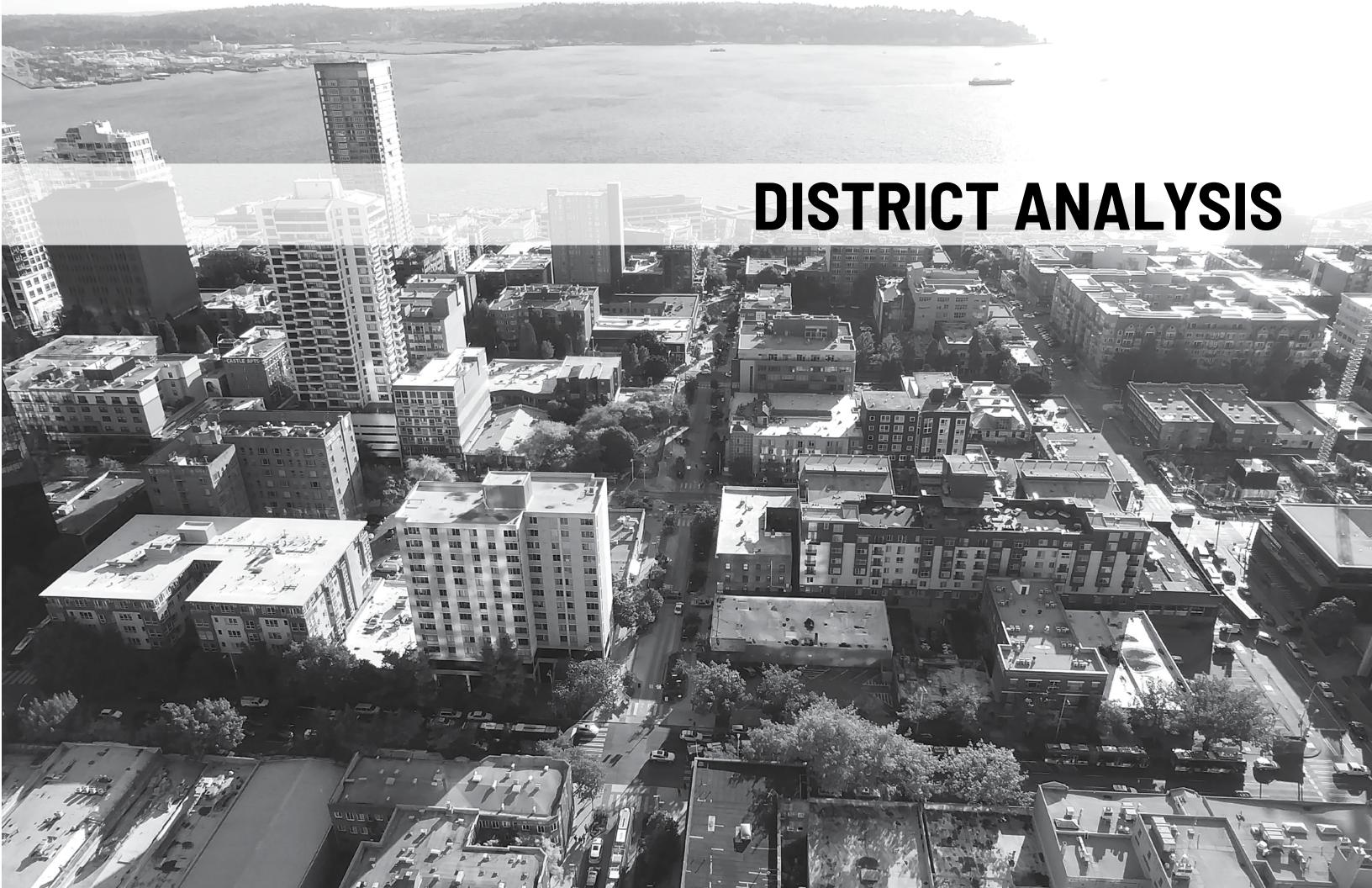
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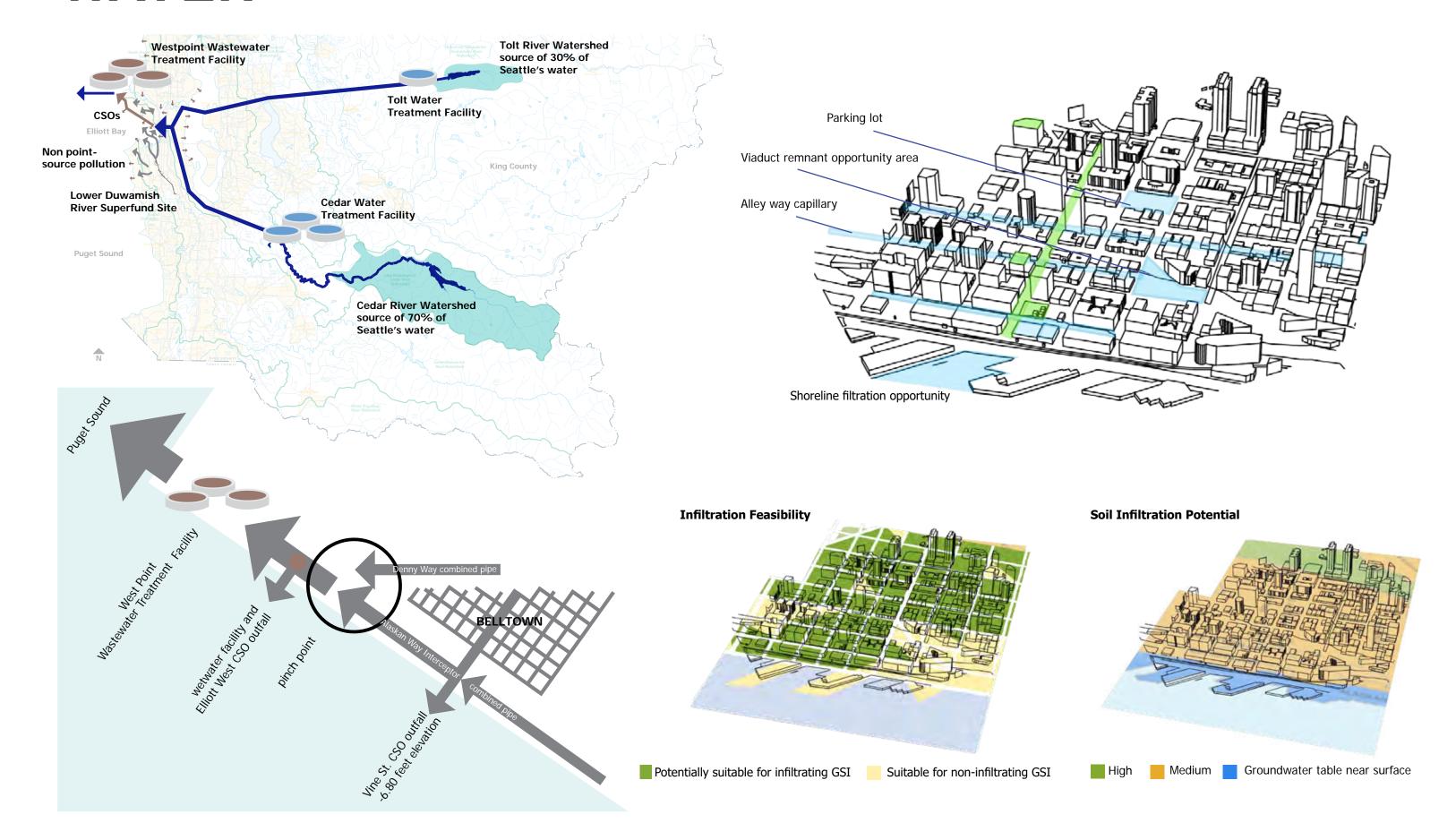
STUDY AREA: Belltown District





WATER

DISTRICT ANALYSIS



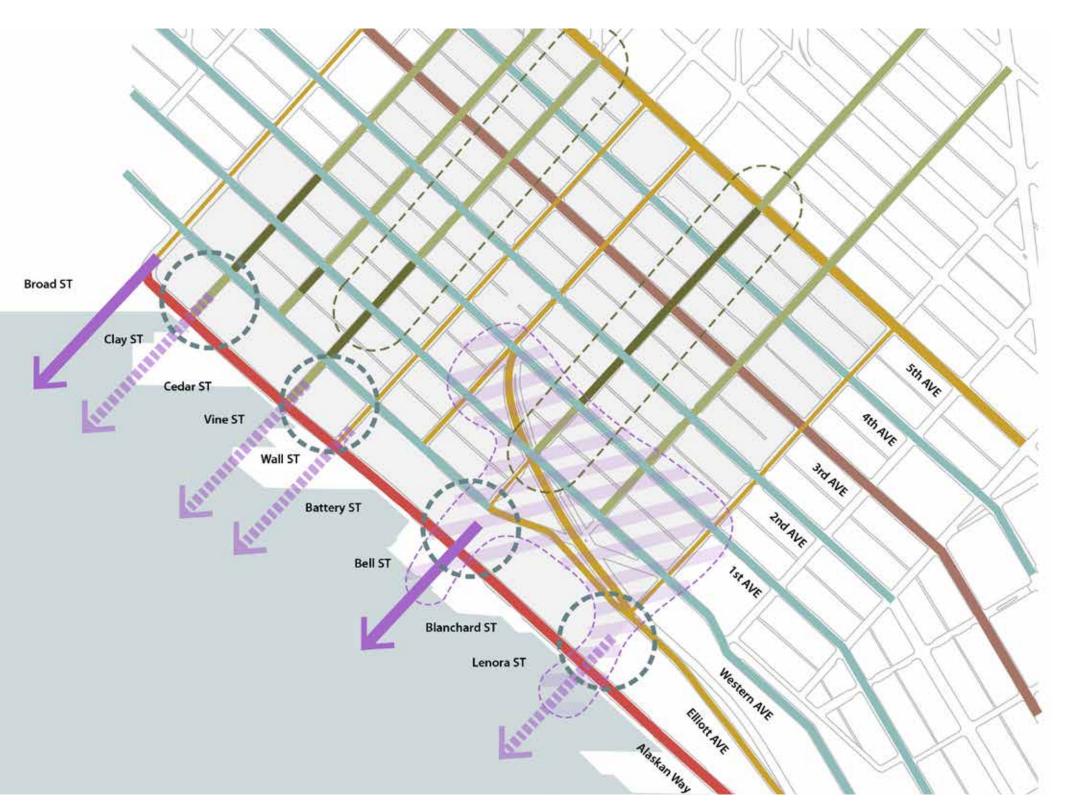
MOBILITY

DISTRICT ANALYSIS









GREENER BELLTOWN: BLUER SOUND

ECOLOGY

DISTRICT ANALYSIS



Yearly Ecological Impact Of Trees In Belltown

1,528 trees

304,363.05 lbs of

CO2 sequestered

816,826 gal of water

conserved

38,095.23 kwh energy

conserved

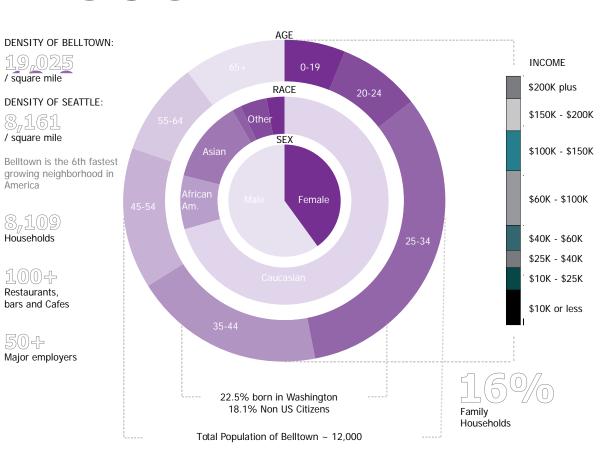
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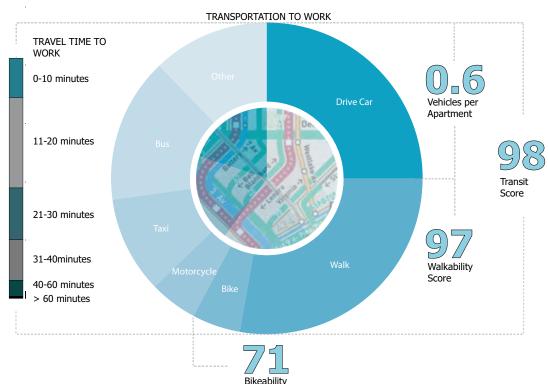


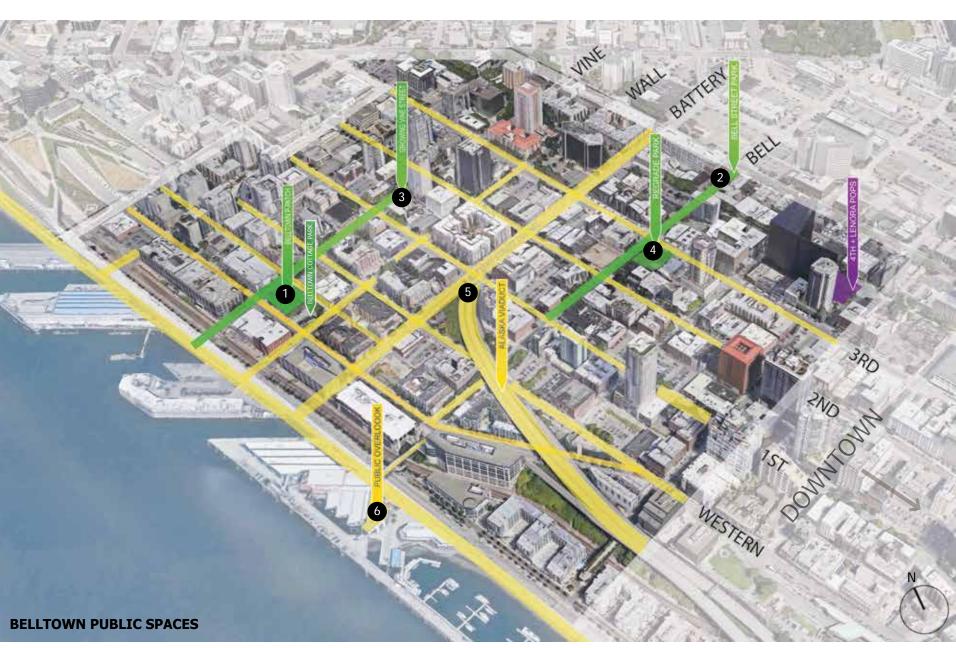
SOCIAL

DISTRICT ANALYSIS

▶ PRIVATELY OWNED PUBLIC SPACE







PUBLIC RIGHT OF WAY



► PUBLIC GREEN SPACE





DEEP CONTEXT





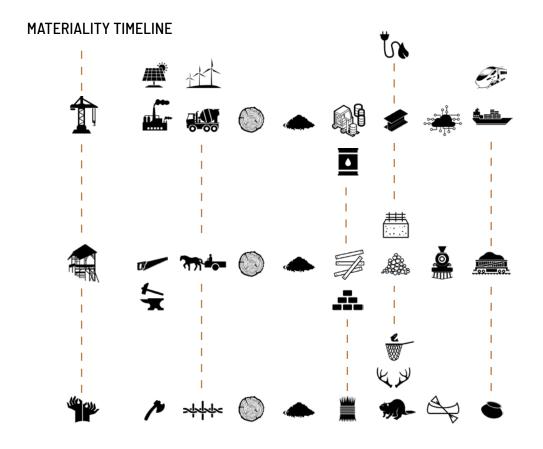




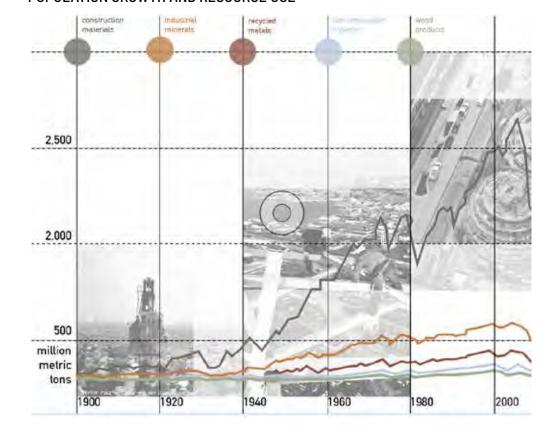
GREENER BELLTOWN: BLUER SOUND

City / Nature for Climate Resilience

DISTRICT ANALYSIS

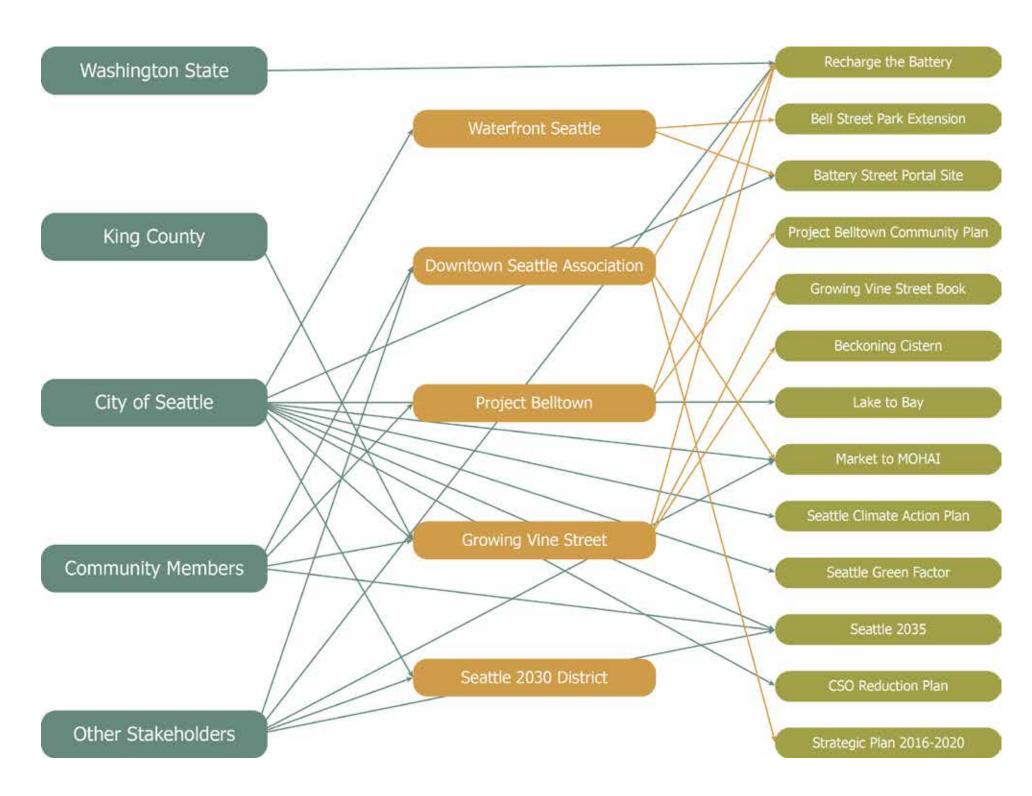


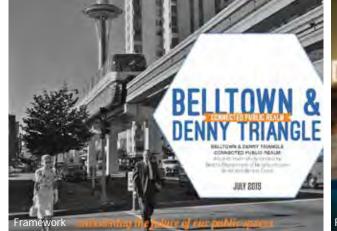
POPULATION GROWTH AND RESOURCE USE



PLANS

DISTRICT ANALYSIS





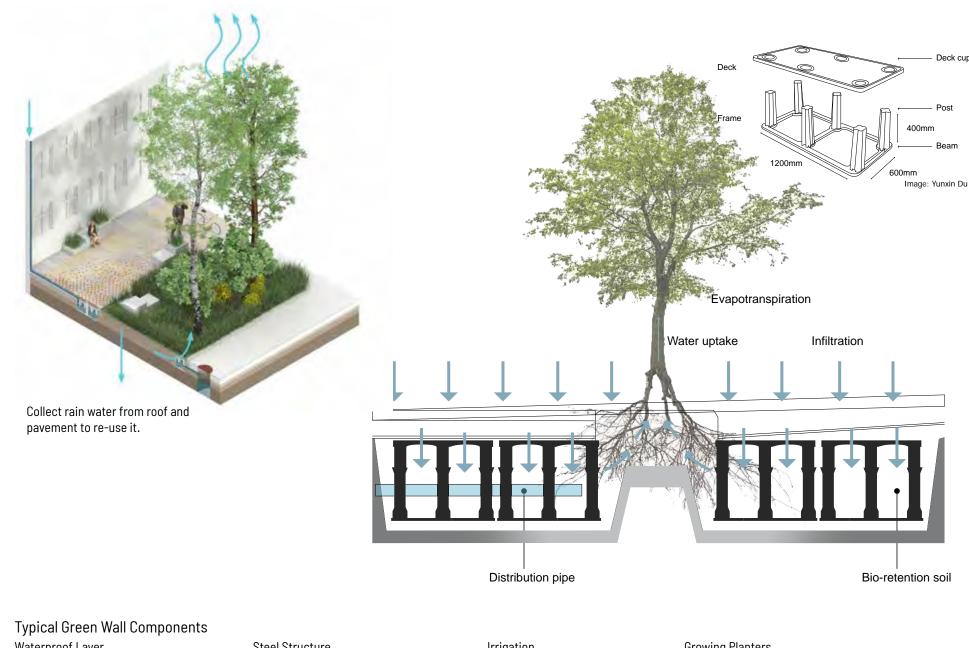


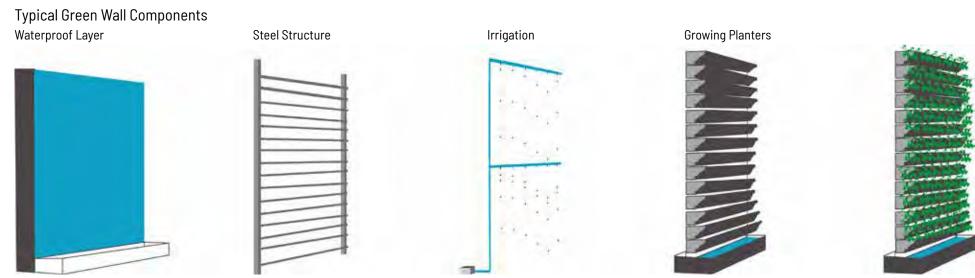




GREENER BELLTOWN: BLUER SOUND







GREENER BELLTOWN: BLUER SOUND

City / Nature for Climate Resilience

STORMWATER TOOLBOX

PERVIOUS PAVEMENT
STRATA/STRATA CELLS
URBAN FOREST
BIOFILTRATION CELLS/PLANTERS
GRASSPAVE
GREEN FACADES

GREEN ROOFS

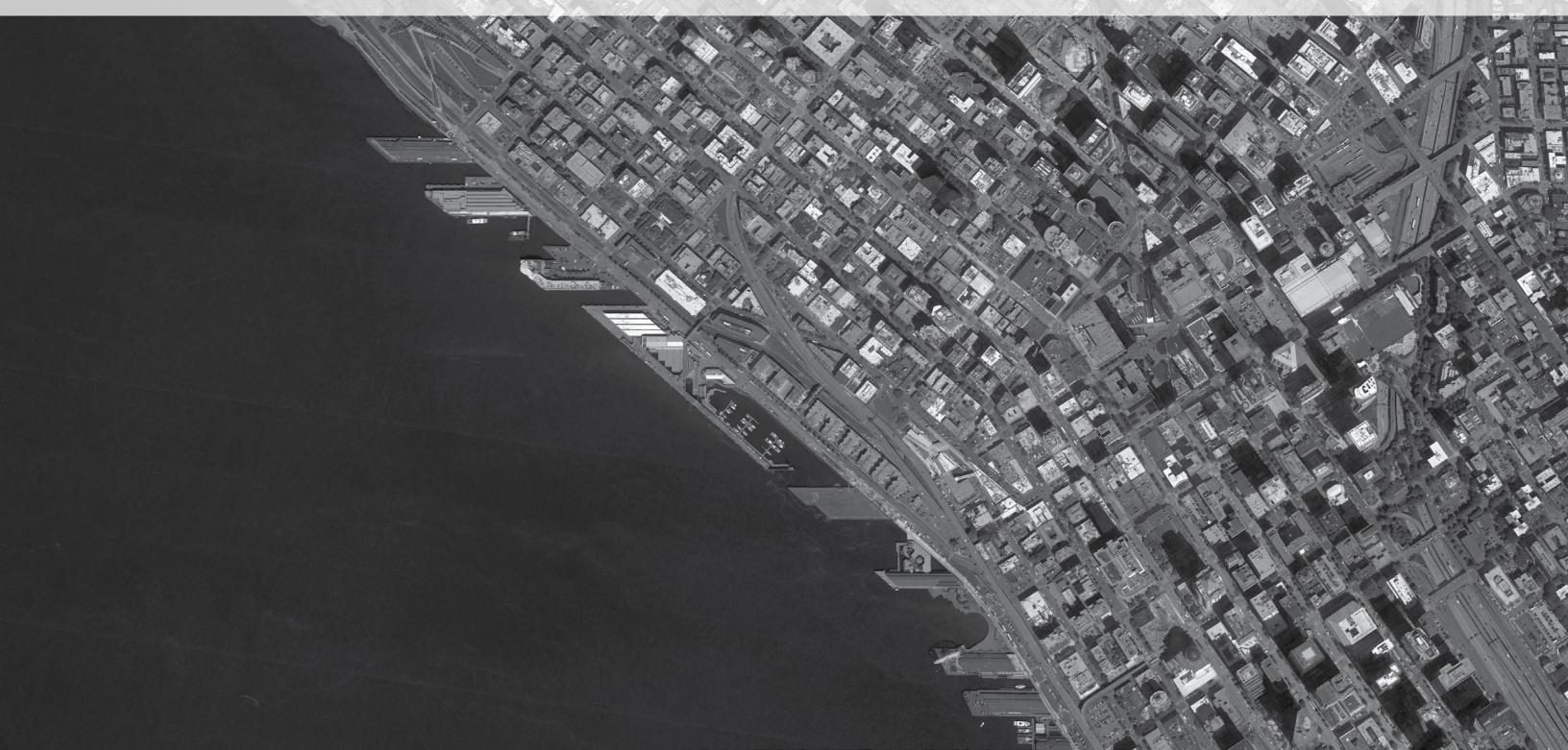
GREEN WALLS

SPLASH BOXX

CISTERNS

CONSTRUCTED WETLANDS

DISTRICT FRAMEWORKS

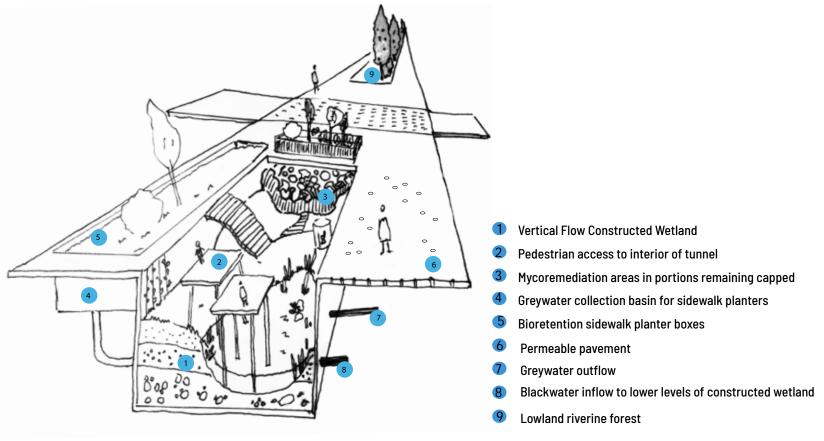


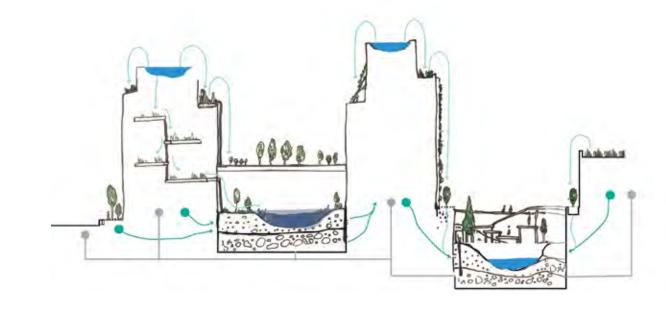
WATER

DISTRICT FRAMEWORK



Daylighted portions of the Battery Street Tunnel



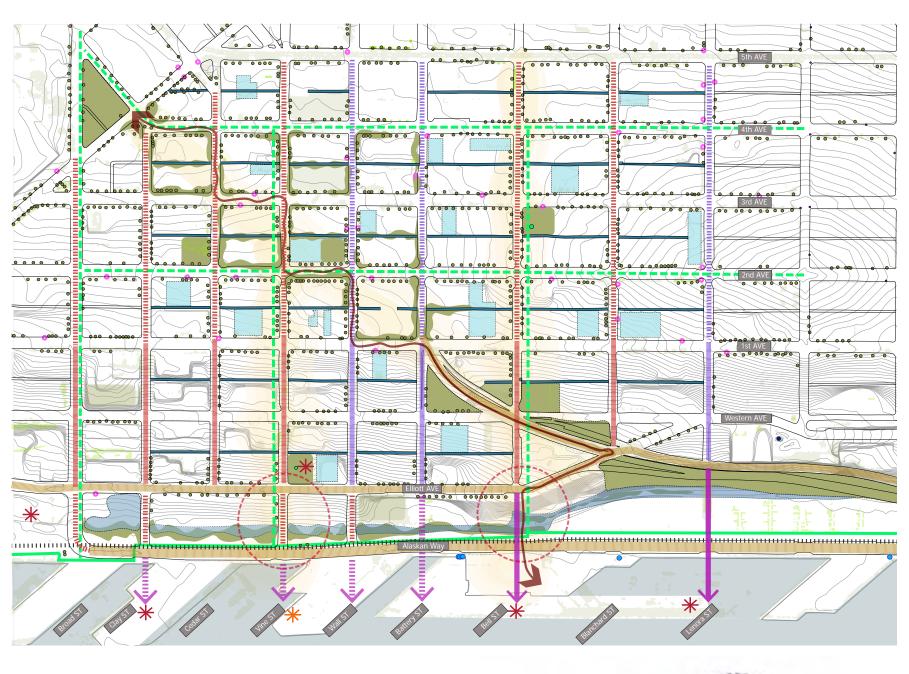


GREENER BELLTOWN: BLUER SOUND

MOBILITY

DISTRICT FRAMEWORK









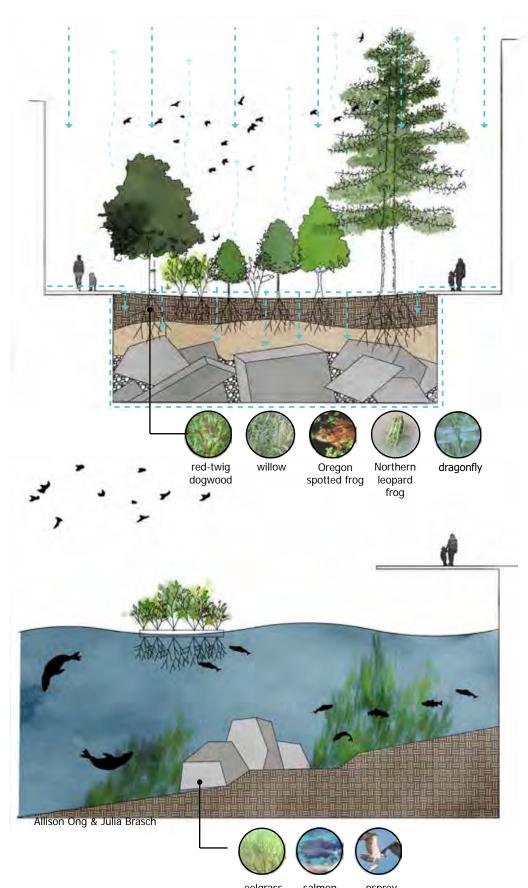


GREENER BELLTOWN: BLUER SOUND

ECOLOGY

LEGEND Harbor Habitat **Epicenter** Belltown Study Area Areas of Potential Garden Street Canopy Corridor Habitat Epicenter

DISTRICT FRAMEWORK



GREENER BELLTOWN: BLUER SOUND

SOCIAL

DISTRICT FRAMEWORK





GREENER BELLTOWN: BLUER SOUND

DEEP CONTEXT

DISTRICT FRAMEWORK







What if every historic building in Belltown had...







A Raingarden...







Historic Buildings Average Roof Area Per Building Avg. Depth of Blue Roof **Volume of Water Per Building Total Volume of Water**



23 **Potential Site Area** 7,000 sq. ft. **Average Water Storage Depth Cubic Feet of Water** 13,090 gallons **Volume of Water Per Building Total Storage In Potential Sites**

206,667 sq. ft. **Historic Buildings 4" Average Size Garden** 68,900 **Avg. Depth** 13,090 gallons Rainfall Captured in Rain Event **Total Volume of Water**

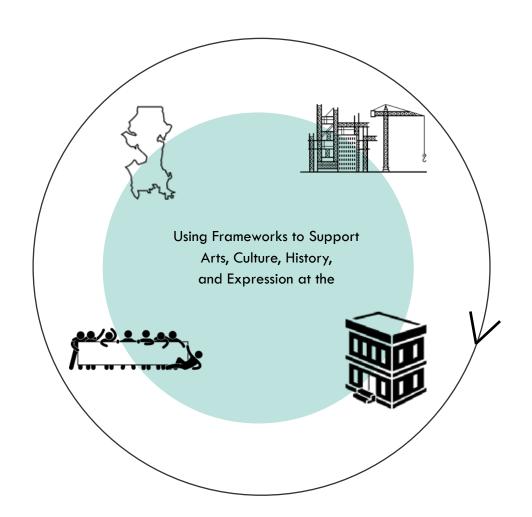
30 sq. ft. 70 gallons

23

301,070 gallons

515,400 gallons

1,610 gallons



GREENER BELLTOWN: BLUER SOUND

STORMWATER METRICS

POTENTIAL IF FRAMEWORKS IMPLEMENTED

2,338,670 GALLONS STORMWATER STORAGE

894,413,635 GAL. STORMWATER MANAGED

468,819,140 GAL. POTABLE WATER SAVED

TARGET

130,000 GALLONS STORMWATER STORAGE

67,000,000 GALLONS OF POTABLE WATER SAVED + STORMWATER MANAGED



SITES: BELLTOWN

- 1 Alleyways
- 2 Small-Scale Interventions
- **3** Battery Street Portal
- **4** Battery Street
- **5** Waterfront and Connections
- **6** P-Patch Parking Lot

CONCEPT DEVELOPMENT + PROGRAMMING









WORKING W/ MASTER TEACHER: LOUISE GRASSOV



GREENER BELLTOWN: BLUER SOUND

SCHEMATIC DESIGN / 2030 DISTRICT MID-REVIEW / WORKSHOP











FINAL REVIEW TODAY'S SCHEDULE

Reviewer Groups

3:30 - 3:50

3:50 - 5:50

4:30 - 5:10

5:10 - 5:50

Group A:

Jim Brennan, J.A. Brennan Associates

Lesley Bain, Framework
Rick Johnson, SPU
Buster Simpson, Artist
Ben Spencer, UW LA Faculty
Jesse Williams, CH2MHill

Group B:

Vaughn Rinner, ASLA Immediate Past President

Noriko Marshall, Noriko Marshall L.A. 3:50 – 4:30

Lily Siu, MKA

Steve Hall, Point Consulting Ken Yocom, UW LA Faculty

Group C:

Aaron Asis, Recharge the Battery

Ryan Storkman, Site Workshop

Amalia Leighton, Toole

Jon Kiehnau, Project Belltown/Growing Vine Street

Jeff Hou, UW LA Faculty Shailee Stern, SPU

Group D:

Barbara Oakrock, Growing Vine Street

Diana Hasegan, Osborn Consulting

Brice Maryman, MIG/SvR

Laure Heland, UW Affiliate Faculty Julie Johnson, UW LA Faculty

At Large:

Lee Loveland, DSA Development

Robin Thaler, Mayfly Consulting

Paul Olson, Architect

Matthew Combe, Seattle 2030 District

Refreshments/Gallery Walk Reviews

Team 1	Team 2	Team 3	Team 4	Team 5	Team 6
A	С	В	D		
	Α		В	D	С
С		A		В	D

5:50 - 6:00

Evan Clifthorne, Project Belltown

Wrap up

GREENER BELLTOWN: BLUER SOUND

