Central Waterfront Stakeholders Group

July 17, 2012

WaterfrontSeattle.org and Elliott Bay Seawall Project

Housekeeping

Waterfront Project Construction Updates

Alaskan Way Viaduct Replacement Program

Central Waterfront Stakeholders Meeting

July 17, 2012

U.S. Department of Transportation Federal Highway Administration

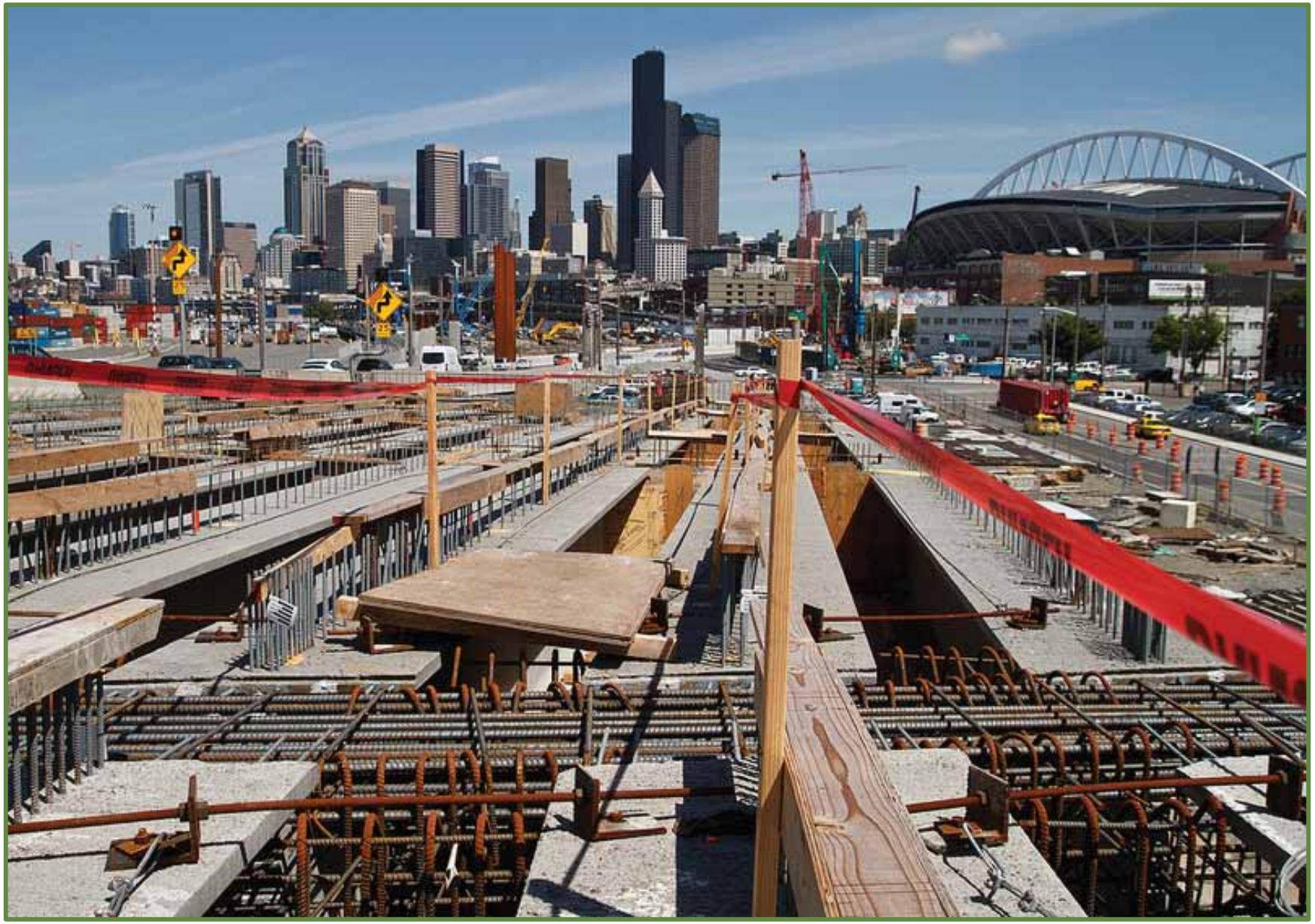
WSDOT

King County

Port of Seattle

City of Seattle

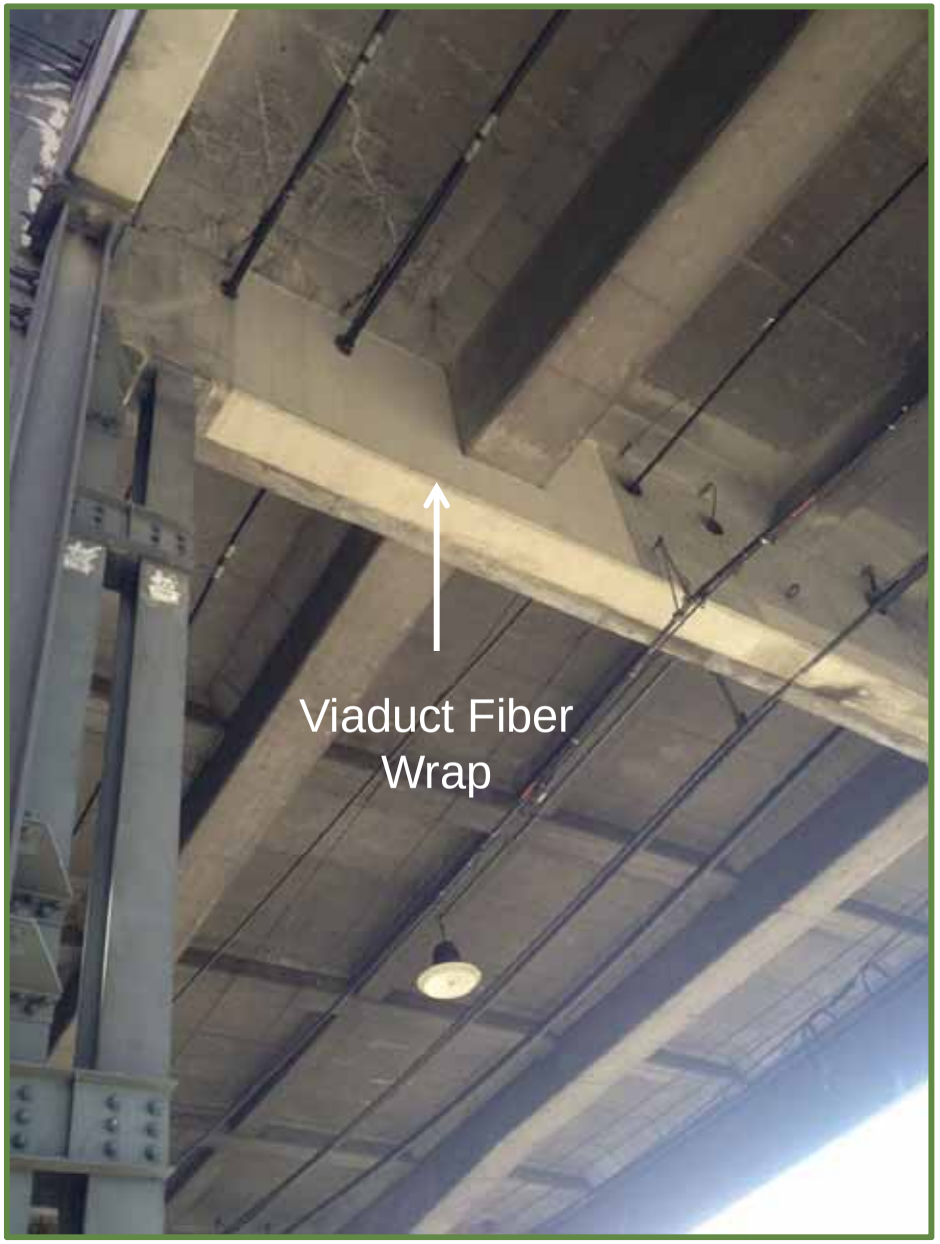
Building the Second SR 99 Bridge



Digging the Tunnel Launch Pit

Drilling Secant Pile Walls

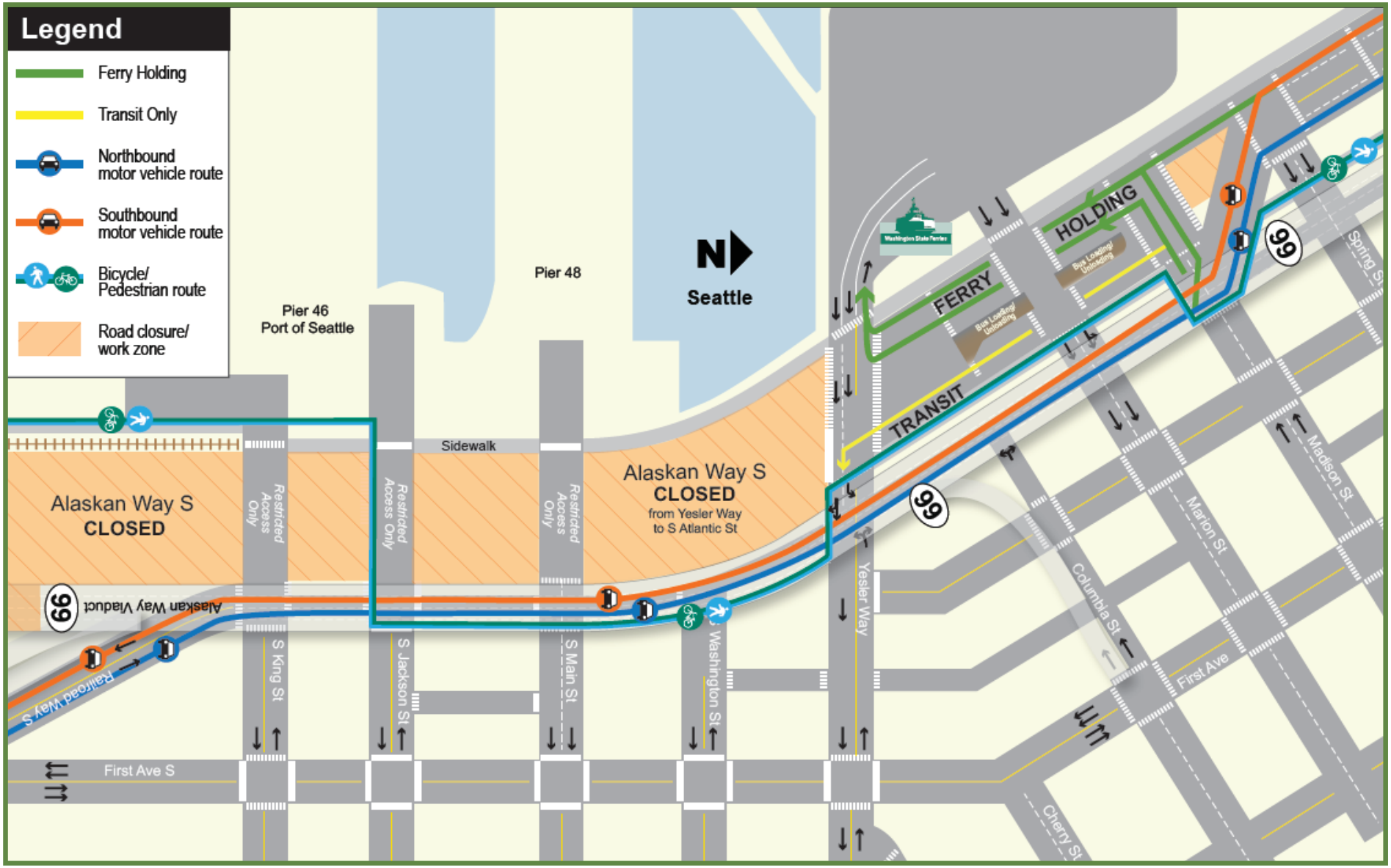
Reinforcing the Viaduct



Building the Tunnel Boring Machine

Model of SR 99 Tunnel Boring Machine

Changes to Alaskan Way



May 2012 through early 2014

Changes to Madison Street

Protecting Structures Above the SR 99 Tunnel

Example of monitoring equipment on building exterior.

- WSDOT is responsible for protecting buildings and other structures above and near the SR 99 tunnel.
- Monitors are being installed along the tunnel route to detect ground movement.
- Tunneling crews will constantly monitor ground conditions and adjust accordingly as the machine moves forward through the earth.

Are there any pressing items you'd like to discuss today?

King County Metro

Downtown Southend Transit Pathways

July 2012

King County METRO We'll Get You There.

High Transit Ridership on SR 99

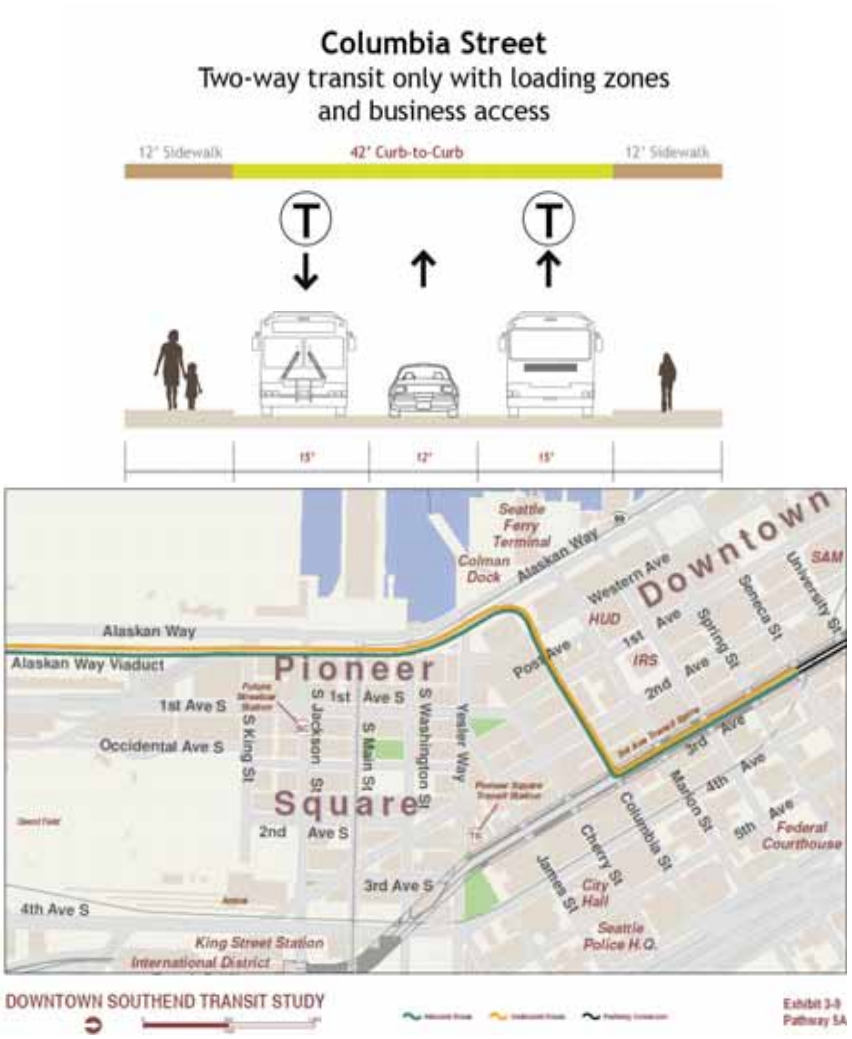
- 20,000 daily riders on 10 routes use Columbia and Seneca ramps
- 45 to 50 Metro buses per peak hour
- One-fifth of the buses moving on Third Avenue
- RapidRide C and D Lines – September 2012

Pathways Eliminated

- Evaluated pathways that included surface streets, SR 99 and I-5.

Pathway	Reasons for being removed from further consideration
1st Avenue S and 4th Avenue S	• Poor transit reliability • Increased travel time (5-15 minutes) compared to existing Alaskan Way Viaduct pathway
Yesler Way and James Street	• Conflicts with ferry operations • Added delay due to turn movements • Difficult turns for buses
Jackson Street	• Higher traffic volumes expected on Jackson Street with surface Alaskan Way • Right-of-way constraints with the First Hill Streetcar • Increase turn movements and pedestrian conflicts • Difficult turns for buses.

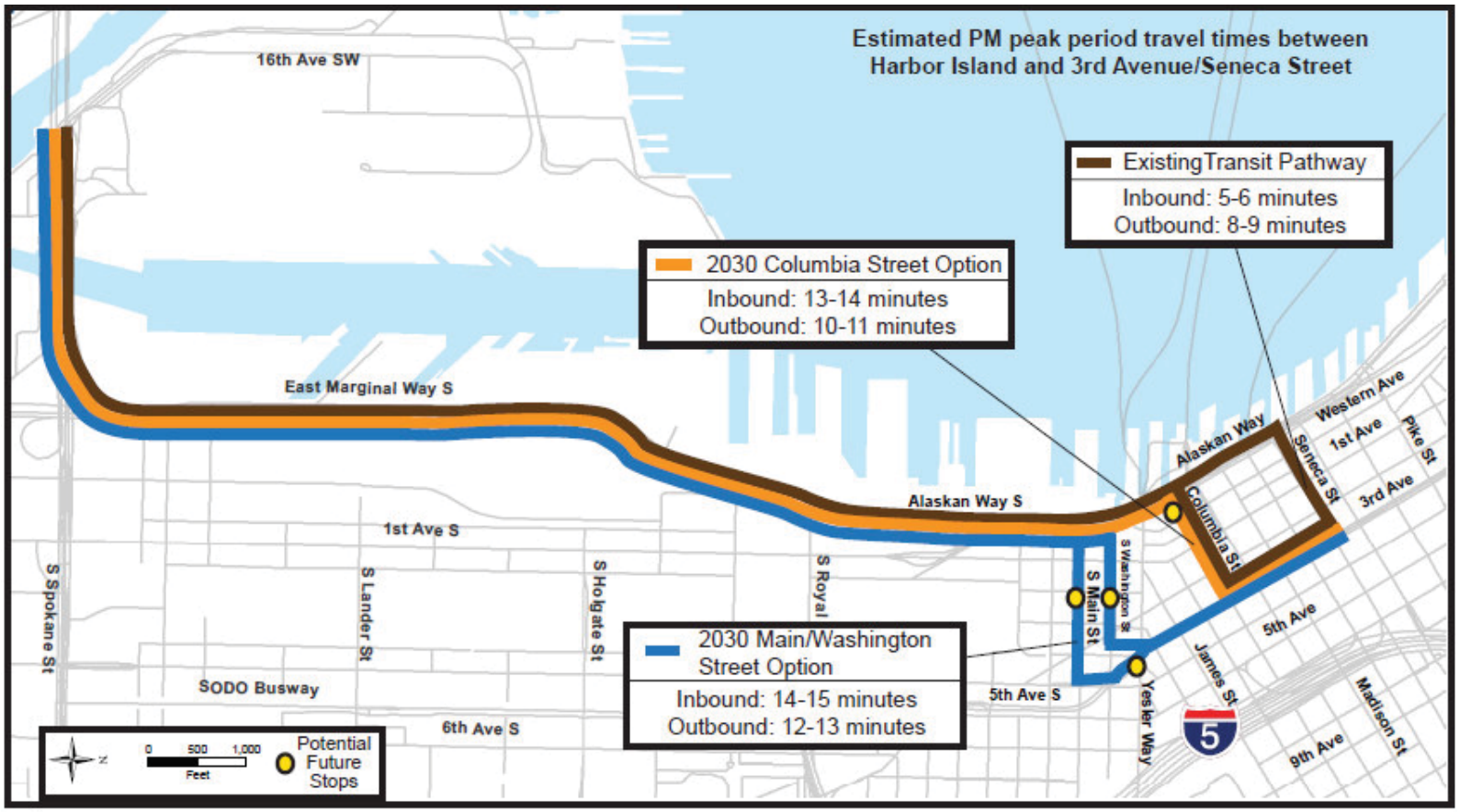
Pathways Analyzed



Preliminary Results

Factors	Columbia	Main/Washington
Travel Time (Weekday PM Peak)	• Longer travel times than existing	•Longer travel times than existing
Reliability	• Must have transit lanes for reliability • Delays at 3rd Avenue	• Must have transit lanes for reliability • Delays at 3rd Avenue/Main Street
Bus Operations	• Grade and intersection at 3rd Avenue	
Grade	• Moderate to steep grade	• Slight grade
Access and Connections	•Access to Colman Dock/Central Waterfront, Pioneer Square Station	• Access to Pioneer Square, International District, King Street Station
Population		• Serves more people with two area stops •Greater density of residences
Parking	Similar levels of parking removed for two-way options; more for Main/Washington couplet.	
Neighborhood Concerns		•Noise and bus volumes •Historic District

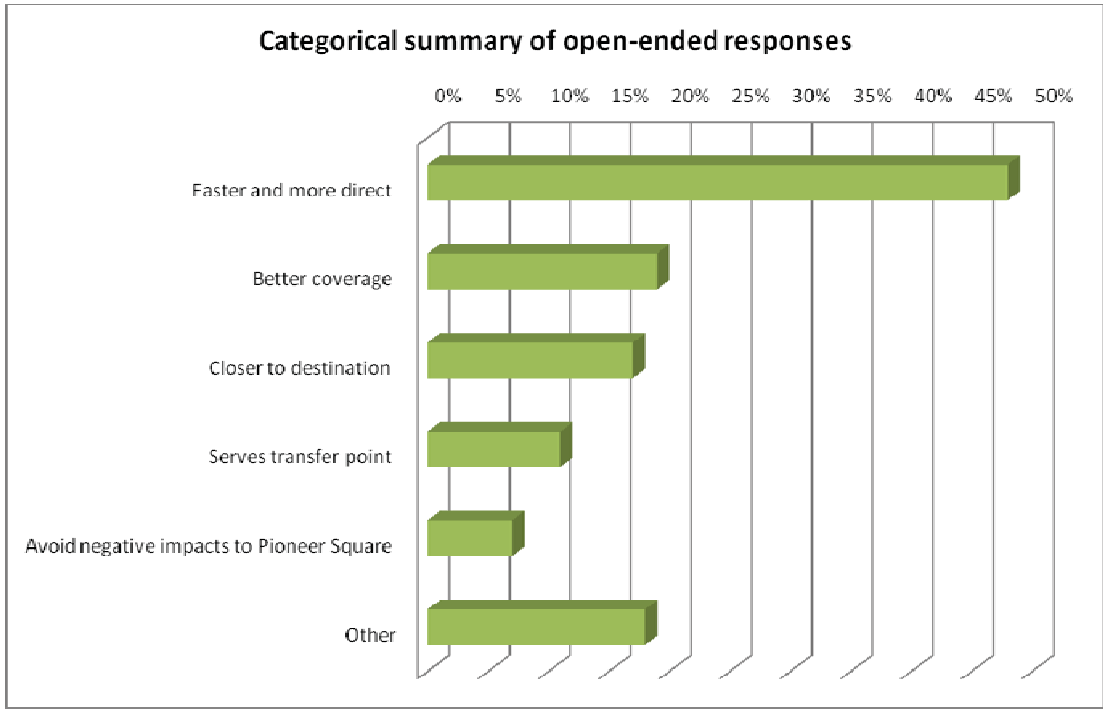
Southend Transit Pathways Project



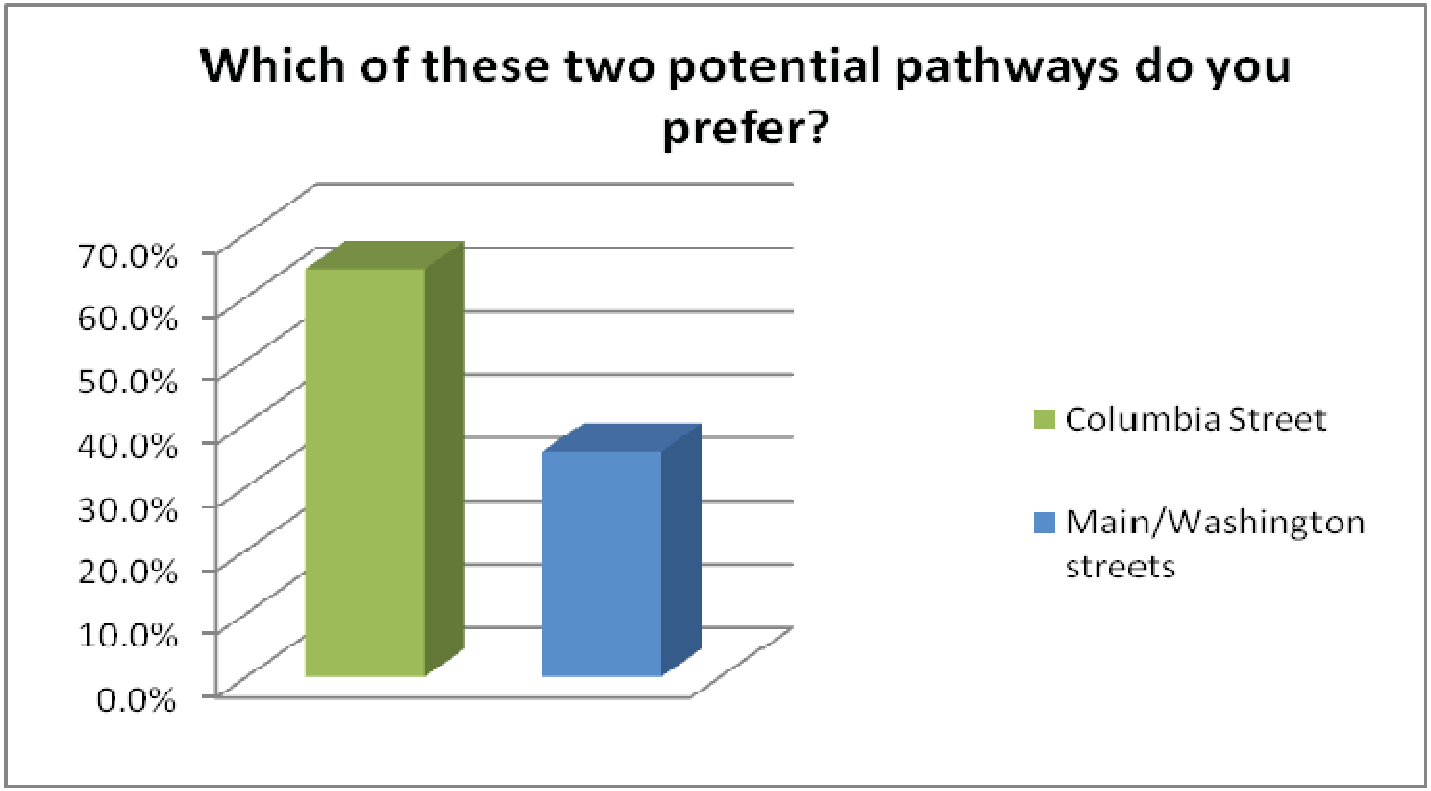
Inbound travel times increase 150%, compared to existing conditions

Pathway Survey Results

- Over 1,500 respondents
- Riders want a faster, more direct trip into downtown Seattle



Pathway Preference



- Preferred Columbia pathway
- Respondents preferred pathway most similar to their current one
  - West Seattle preferred Columbia
  - Ballard preferred Main/Washington

Additional Evaluation

- Columbia Transit Hub
  - Stop-spacing and location
- Transit Priority Treatments
  - Alaskan Way
  - Columbia Street
- Interim Construction Pathway

Next Steps

- Complete pathway evaluation
- Work with City to develop Columbia Street Transit Hub design
  - All day transit priority treatments
  - Operational Improvements
- Connect with stakeholders and riders

Waterfront Seattle Concept Design and Next Steps

WATERFRONT INTO FOCUS

Approximately 800 attendees on July 12

We asked for:

- **Reactions to the Core Projects**
- **Ideas for transit**
- **Engagement ideas**
- **Great additions/missing ideas**

We are currently summarizing this feedback!

waterfront Seattle

WATERFRONT INTO FOCUS
July 12, 2012

COMMUNITY INTO FOCUS

COMMUNITY

WATERFRONT FOR ALL

CENTRAL WATERFRONT STAKEHOLDERS GROUP

CENTRAL WATERFRONT COMMITTEE

VOLUNTEER COMMUNITY REPRESENTATIVES AND LEADERS

CITY OF SEATTLE

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF PLANNING AND DEVELOPMENT

DEPARTMENT OF PARKS AND RECREATION

RHINE
RHINE
RHINE
RHINE
ZAXIS
350

GUIDING PRINCIPLES

Create a **waterfront for all**

Shoreline and innovative, sustainable design

Reconnect the city to its waterfront

Embrace and celebrate Seattle's **history**

Improve mobility and **access**

Create a bold vision that is **adaptable** over time

Develop consistent **leadership**

COMMUNITY OUTREACH

CIVIC EVENTS

COMMUNITY FORUMS

GRASSROOTS OUTREACH

WATERFRONT ACTIVATION

ONLINE + SOCIAL MEDIA

FEEDBACK THEMES

VIEWS

PARKS + OPEN SPACES

CONNECTIONS + MOBILITY

BE NEAR + TOUCH THE WATER

ARTS + ENTERTAINMENT

Image courtesy of One Reel

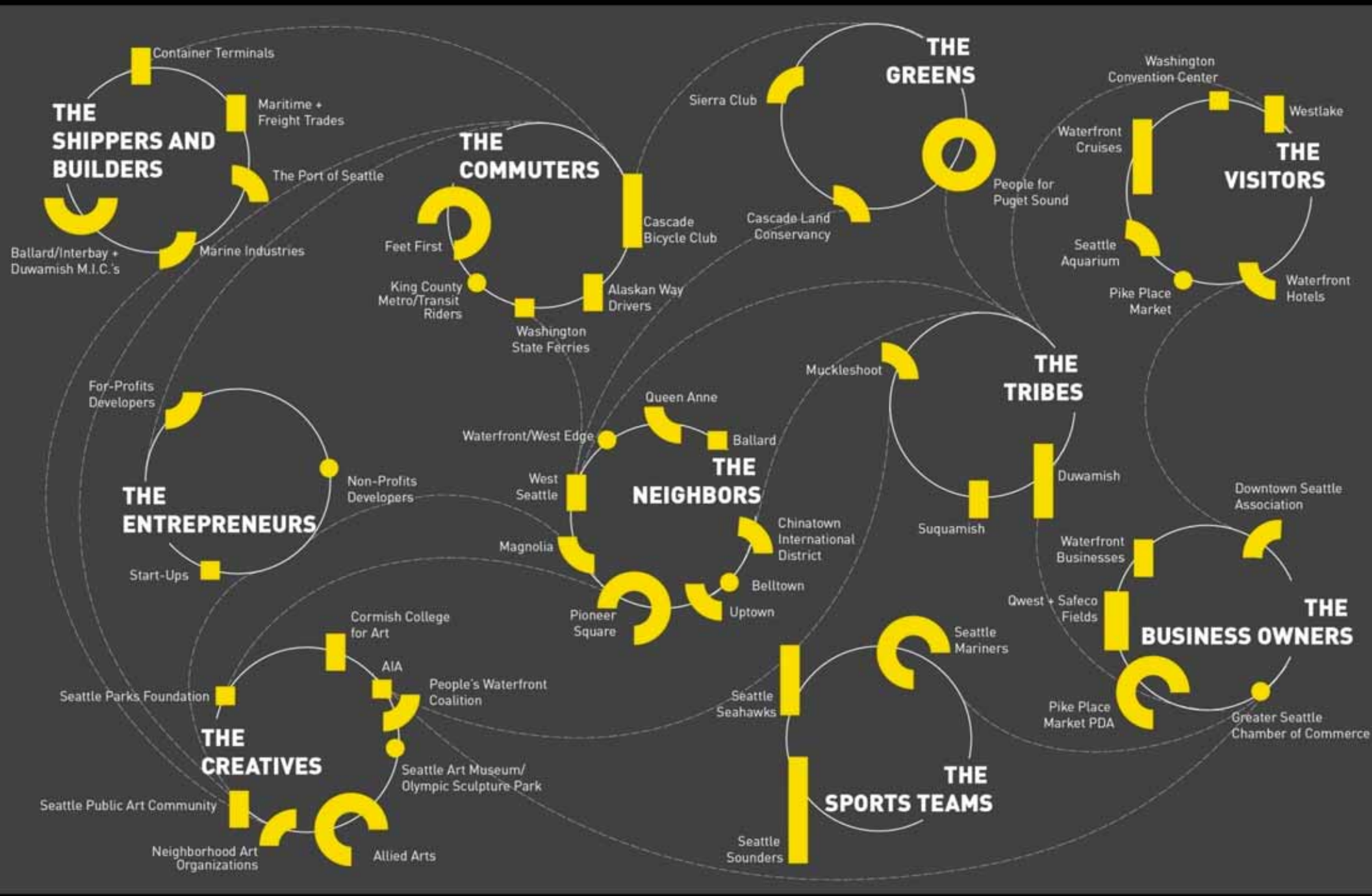
DESIGN INTO FOCUS

Waterfront Seattle

Project Team

James Corner Field Operations
CH2M Hill
Shiels Olbetz Johnsen
Mithun
Berger Partnership
Enrivolssues
Tomato
Mark Dion
Creative Time
Eric Fredericksen
SHoP Architects
Parametrix
Parsons Brinkerhoff
Nelson/Nygaard

COSCO


THE SHIPPERS AND BUILDERS
Container Terminals
Maritime + Freight Trades
The Port of Seattle
Marine Industries
Ballard/Interbay + Duwamish M.I.C.'s
THE COMMUTERS
Feet First
King County Metro/Transit Riders
Washington State Ferries
Alaskan Way Drivers
Cascade Bicycle Club
THE GREENS
Sierra Club
Cascade Land Conservancy
People for Puget Sound
THE VISITORS
Washington Convention Center
Westlake
Waterfront Cruises
Seattle Aquarium
Pike Place Market
Waterfront Hotels
THE ENTREPRENEURS
For-Profits Developers
Non-Profits Developers
Start-Ups
THE NEIGHBORS
Queen Anne
Ballard
Waterfront/West Edge
West Seattle
Magnolia
Chinatown International District
Belltown
Uptown
Pioneer Square
THE TRIBES
Muckleshoot
Duwamish
Suquamish
THE BUSINESS OWNERS
Downtown Seattle Association
Waterfront Businesses
Qwest + Safeco Fields
Pike Place Market PDA
Greater Seattle Chamber of Commerce
THE CREATIVES
Cormish College for Art
AIA
Seattle Parks Foundation
People's Waterfront Coalition
Seattle Art Museum/ Olympic Sculpture Park
Seattle Public Art Community
Neighborhood Art Organizations
Allied Arts
THE SPORTS TEAMS
Seattle Mariners
Seattle Seahawks
Seattle Sounders

Three Concepts at Three Scales

1. CITY SCALE

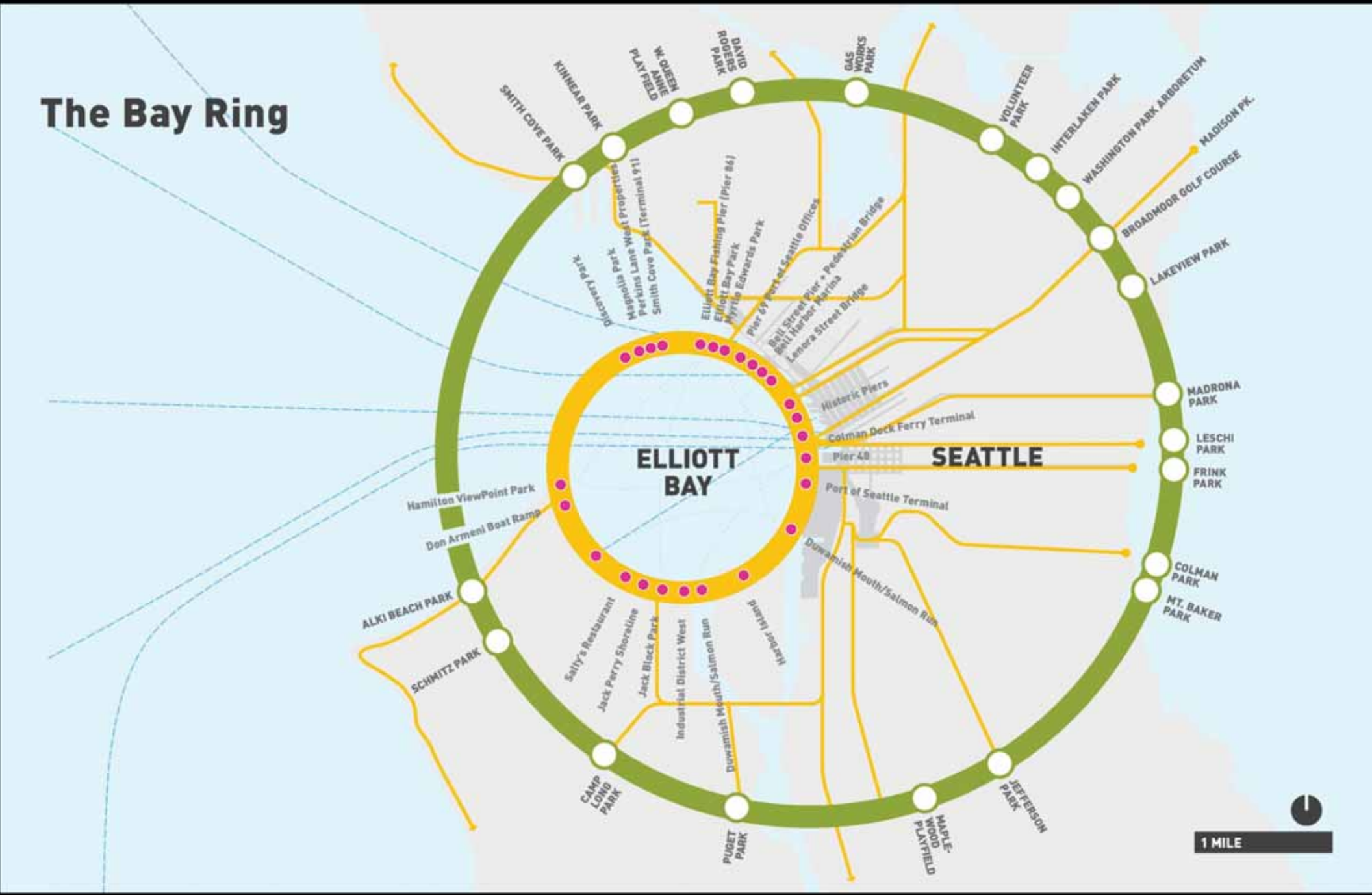
2. CENTER CITY SCALE

3. WATERFRONT SCALE

1. The City Scale: "Re-Centering the City around the Bay"

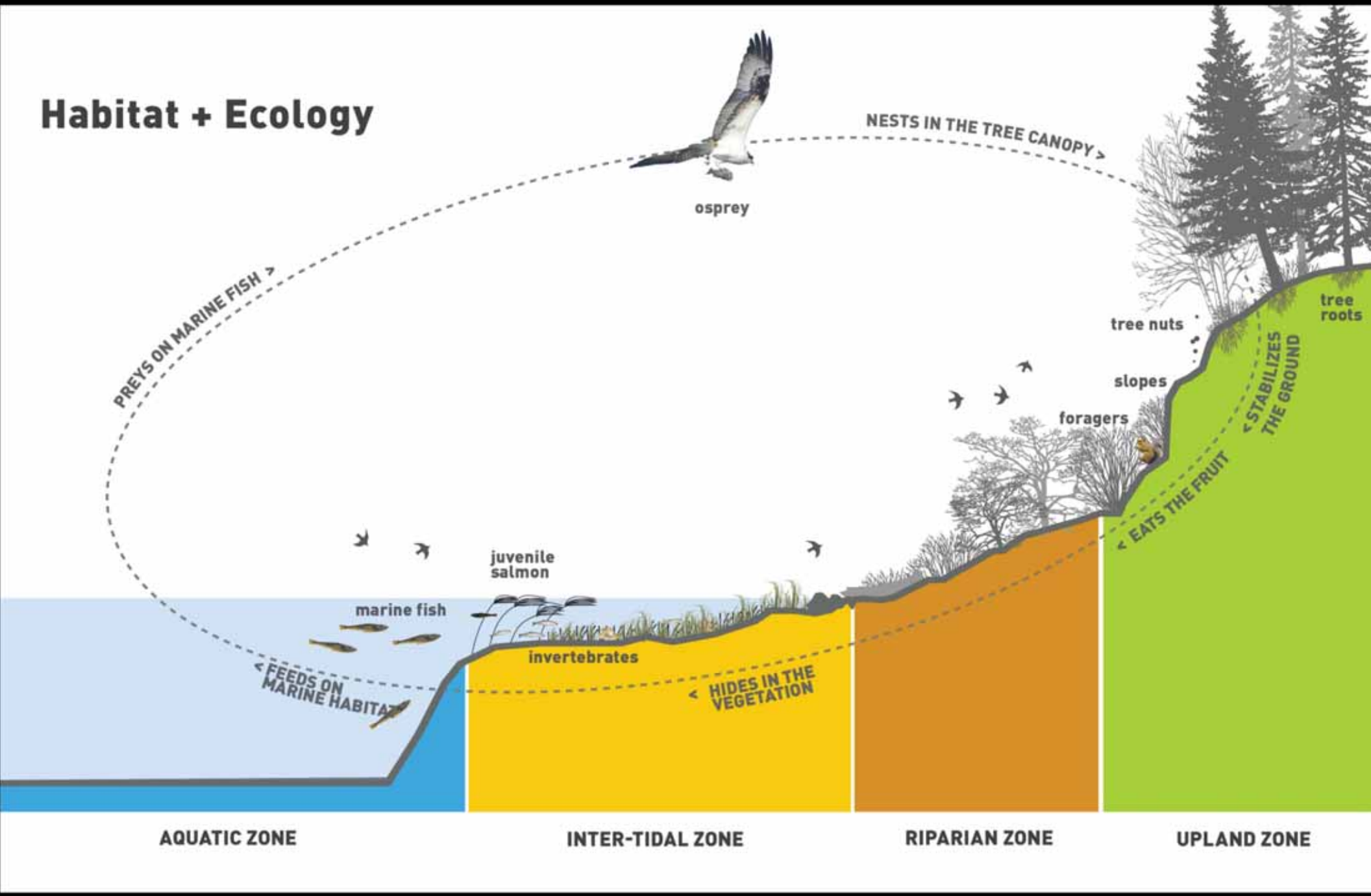
Re-Centering Seattle Around the Bay

The Bay Ring


ELLIOTT BAY
SEATTLE
SMITH COVE PARK
KINNEAR PARK
W. QUEEN ANNE PLAY FIELD
DAVID ROGERS PARK
GAS WORKS PARK
VOLUNTEER PARK
INTERLAKEN PARK
WASHINGTON PARK ARBORETUM
MADISON PK.
BROADMOOR GOLF COURSE
LAKEVIEW PARK
MADRONA PARK
LESCHI PARK
FRINK PARK
COLMAN PARK
MT. BAKER PARK
JEFFERSON PARK
MAPLE-WOOD PLAYFIELD
PUGET PARK
CAMP LONO PARK
SCHMITZ PARK
ALKI BEACH PARK
Don Armeni Boat Ramp
Hamilton ViewPoint Park
Salty's Restaurant
Jack Perry Shoreline
Jack Block Park
Industrial District West
Duwamish Mouth/Salmon Run
Harbor Island
Duwamish Mouth/Salmon Run
Port of Seattle Terminal
Pier 48
Colman Dock Ferry Terminal
Historic Piers
Lenora Street Bridge
Bell Harbor Marina
Bell Street Pier + Pedestrian Bridge
Pier 69 Port of Seattle Offices
Myrtle Edwards Park
Elliott Bay Park
Elliott Bay Fishing Pier (Pier 86)
Smith Cove Park (Terminal 91)
Perkins Lane West Properties
Magnolia Park
Discovery Park
1 MILE

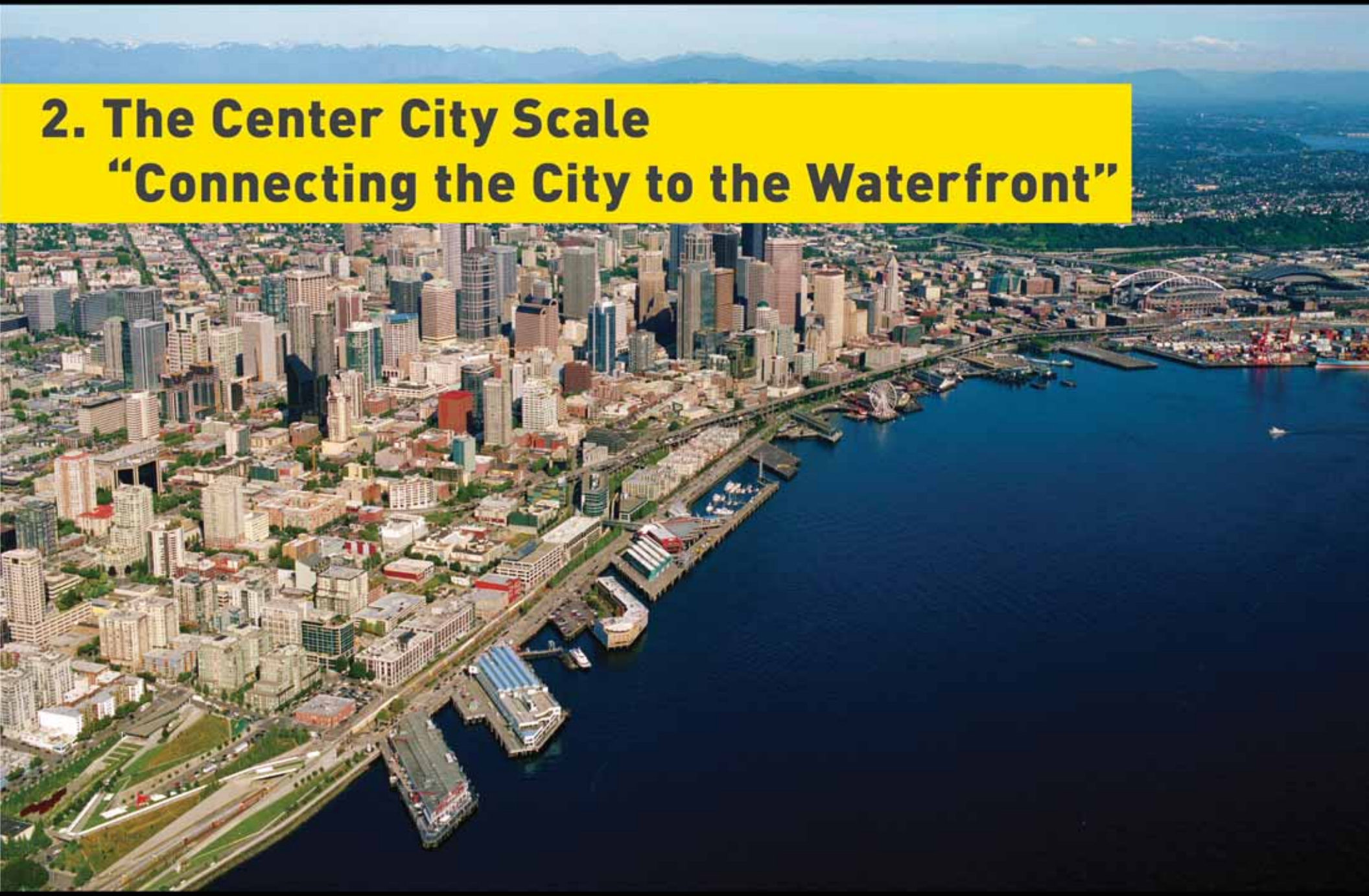
Habitat + Ecology

Habitat + Ecology



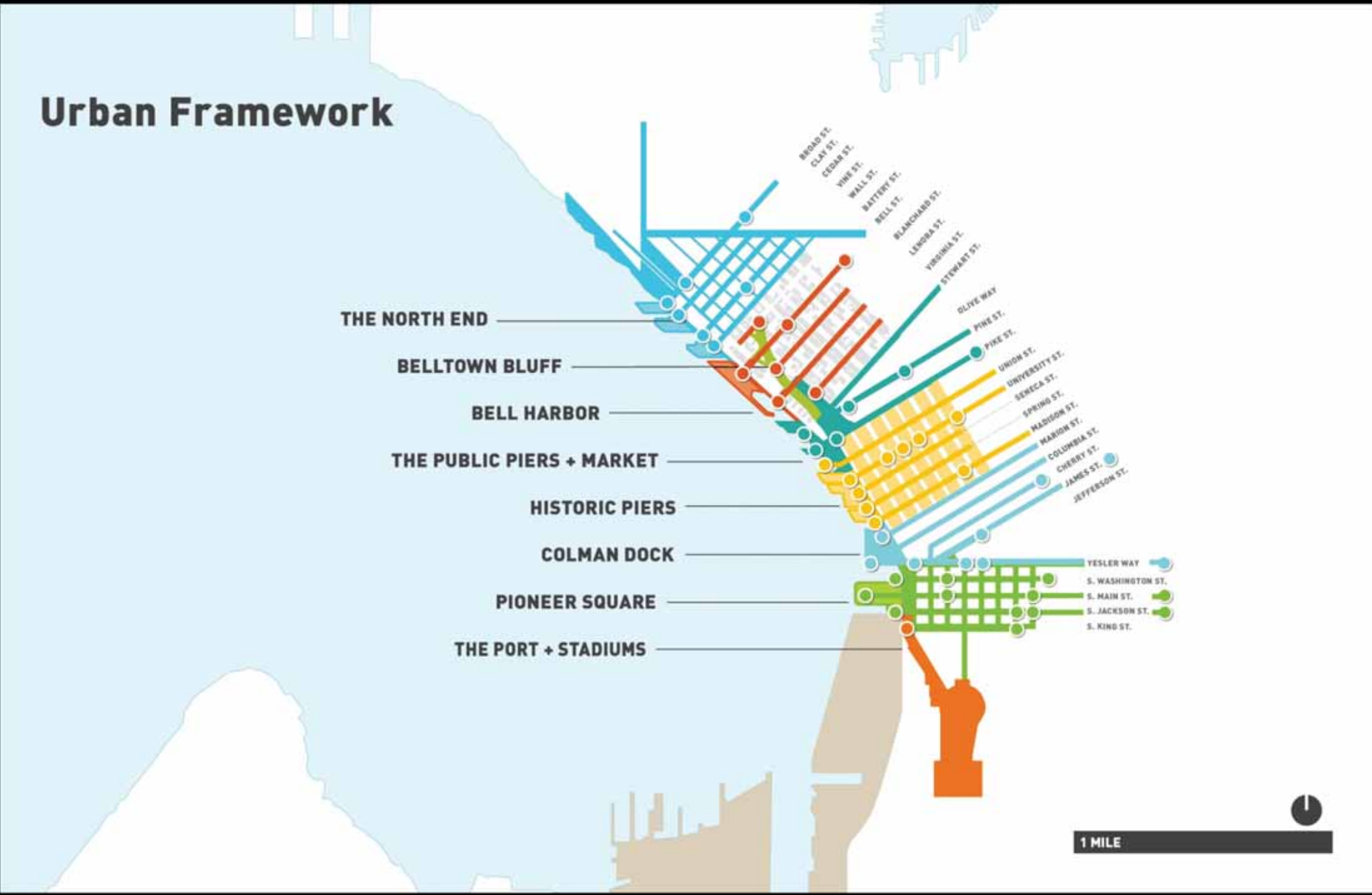
360°City (Art Program)

2. The Center City Scale
"Connecting the City to the Waterfront"

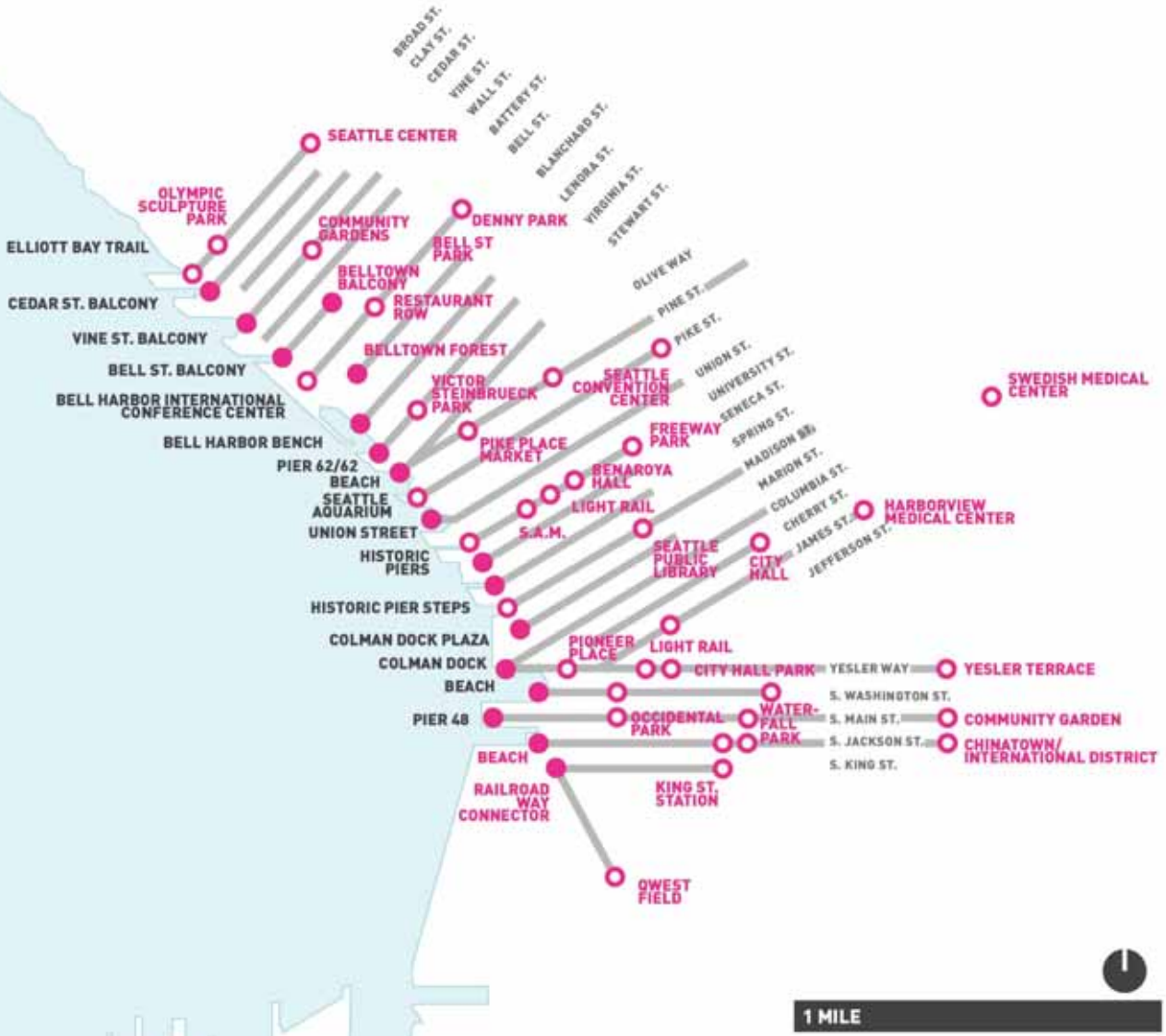


N
0'
1000'
2000'
4000'

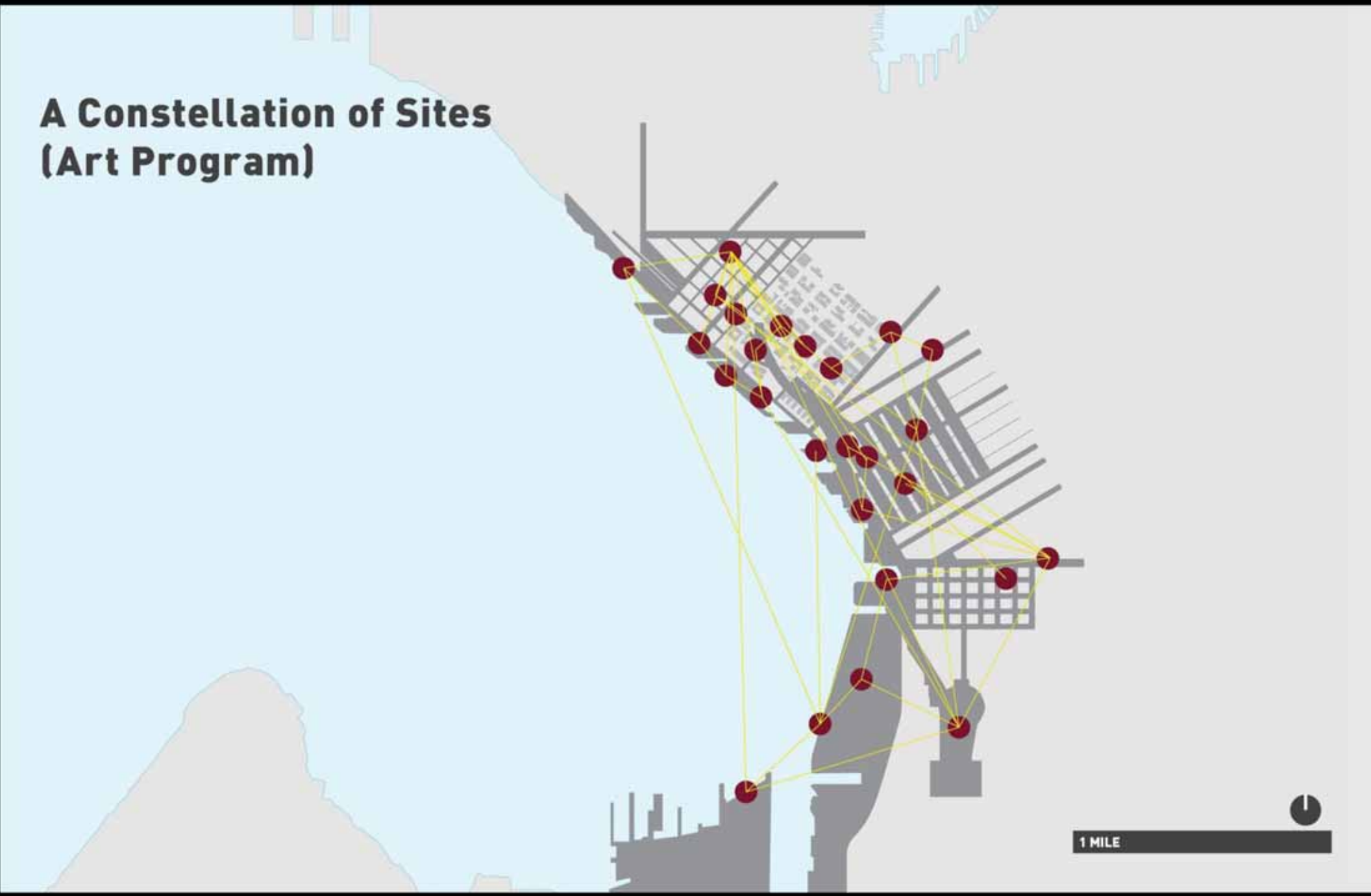
Urban Framework



Destinations



A Constellation of Sites (Art Program)



Waterfront Transit Access

- LIGHT RAIL
- TRANSIT TUNNEL STATIONS
- BUS TRANSIT SPINE AND PATHWAYS
- MADISON STREET HCT CORRIDOR
- EXISTING AND PLANNED STREETCAR
- ALTERNATIVE CENTER CITY CONNECTOR CORRIDORS
- SW TRANSIT PATHWAY OPTIONS
- FREQUENT TROLLEY BUS ROUTES
- WATERFRONT CONNECTOR

PUBLIC
ACCESS

PEDESTRIAN
CONNECTIONS

48009
FREIGHT

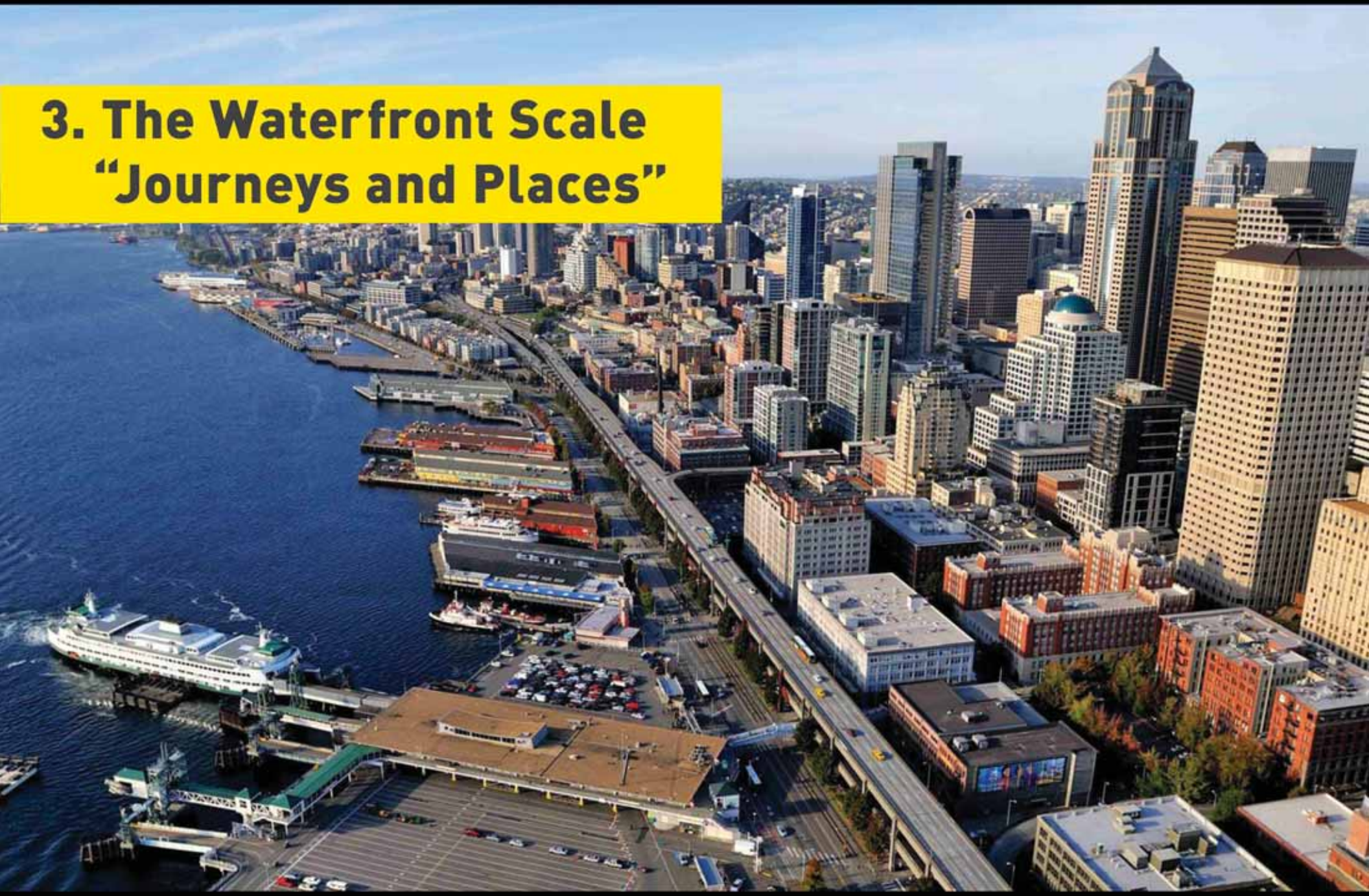
PUBLIC
TRANSIT

EXISTING
PARKING

ALASKAN
WAY USERS

Waterfront Transit Options

3. The Waterfront Scale "Journeys and Places"



PORT OF SEATTLE
LENORA ST.

10
5

AUTHORIZED
ACCESS ONLY
BEYOND
THIS POINT

Seawall

CONTINUOUS WATERFRONT ELEMENTS

- **SEAWALL**
- **WATERFRONT PUBLIC REALM**

0.5 MILE

Waterfront Promenade

CONTINUOUS WATERFRONT ELEMENTS

- **SEAWALL**
- **ALASKAN WAY AND ELLIOTT WAY**
- **BIKE PATH**
- **WATERFRONT PUBLIC REALM**

0.5 MILE

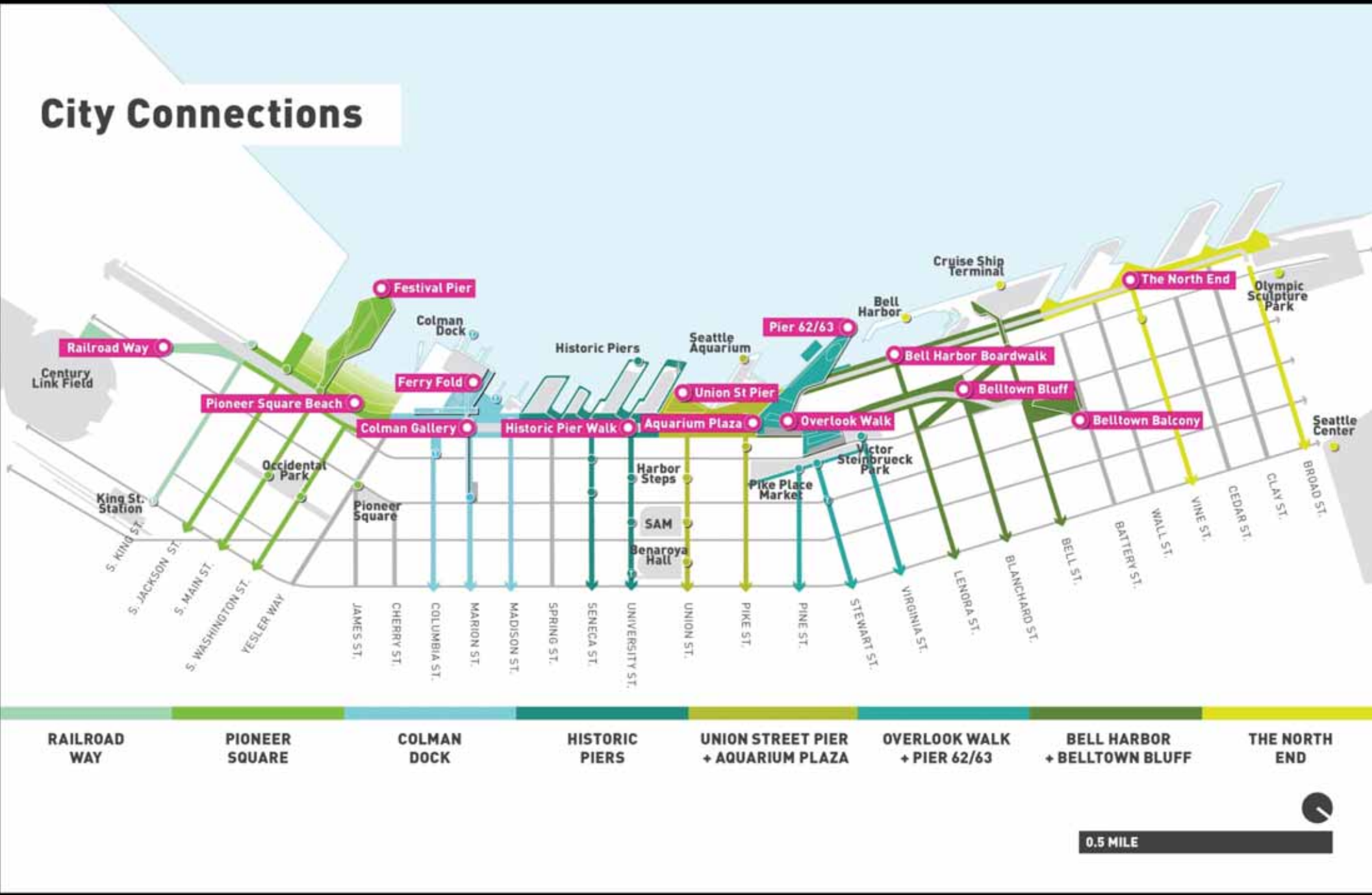
Waterfront Destinations

WATERFRONT DESTINATION

WATERFRONT PUBLIC REALM

0.5 MILE

City Connections



A Long-Term Vision

1. RAILROAD WAY
2. PIONEER SQUARE BEACH
3. FESTIVAL PIER
4. COLMAN DOCK GALLERY
5. FERRY FOLD
6. MARION ST. BRIDGE
7. HISTORIC PIER WALK
8. UNION ST. PIER
9. AQUARIUM PLAZA
10. PIER 62/63
11. OVERLOOK WALK
12. BELL HARBOR
13. BELLTOWN BLUFF
14. BELLTOWN BALCONY
15. HALF-MILE PROMENADE
16. TIDELINE PROMENADE
17. BELL ST. IMPROVEMENTS
18. UNION ST. IMPROVEMENTS
19. SENECA ST. IMPROVEMENTS
20. COLUMBIA ST. IMPROVEMENTS
21. S. WASHINGTON ST. IMPROVEMENTS
22. S. MAIN ST. IMPROVEMENTS
23. LAKE-TO-BAY SQUARE

0.5 MILE

Core Projects

1. RAILROAD WAY
2. SEAWALL BEACH
3. S. MAIN ST IMPROVEMENTS
4. S. WASH. ST. IMPROVEMENTS
5. COLMAN DOCK GALLERY
6. MARION ST. BRIDGE
7. COLUMBIA ST. IMPROVEMENTS
8. HISTORIC PIER WALK
9. SENECA ST. IMPROVEMENTS
10. TIDELINE PROMENADE
11. UNION STREET PIER
12. UNION ST. IMPROVEMENTS
13. AQUARIUM PLAZA
14. PIER 62/63
15. OVERLOOK WALK
16. BELLTOWN BLUFF
17. BELLTOWN INTERIM IMPROVEMENTS
18. BELL ST. IMPROVEMENTS

0.5 MILE

Core Projects

1. A Great Urban Street
2. A Dedicated Bike Path
3. A Continuous Public Promenade
4. Waterfront Destinations
5. East-West Connections

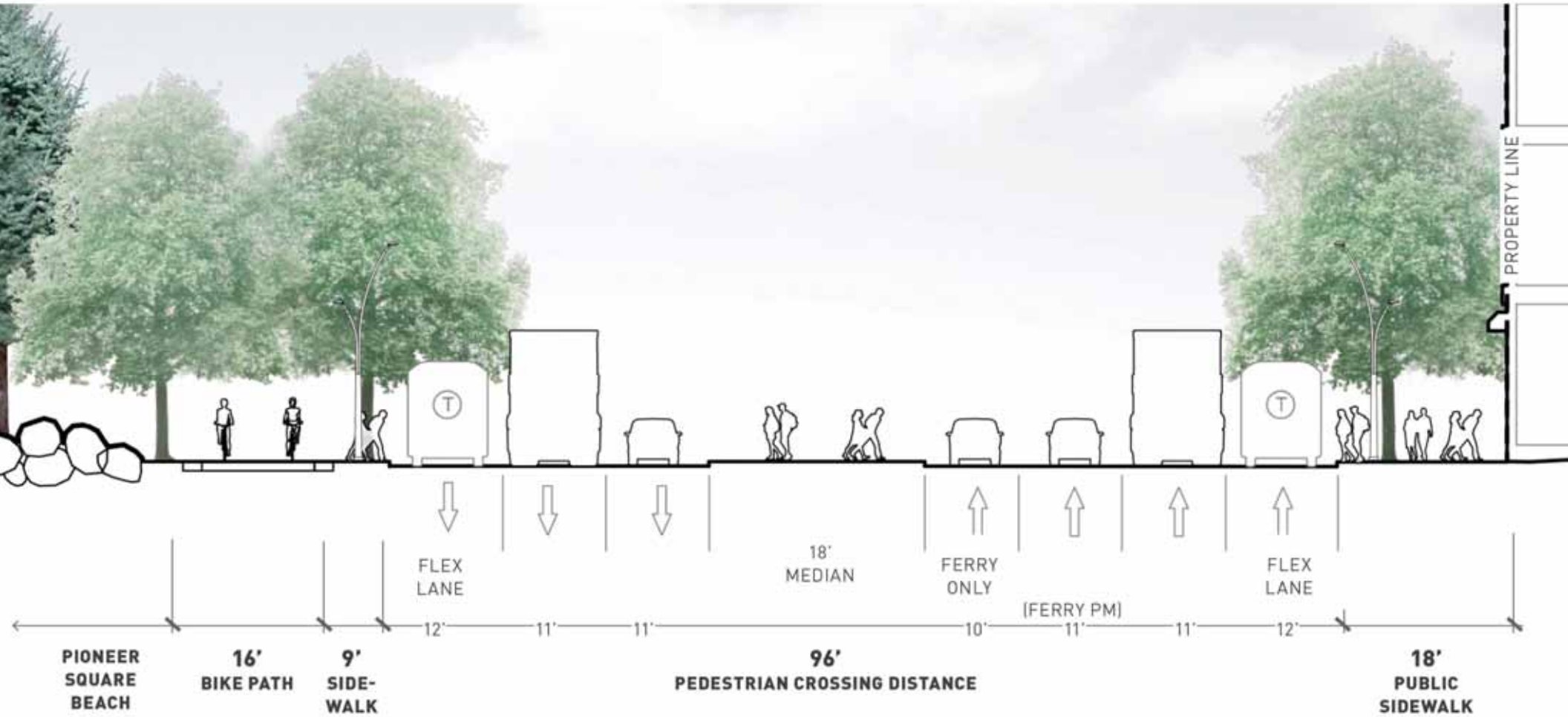
Waterfront Streets

Five Street Segments

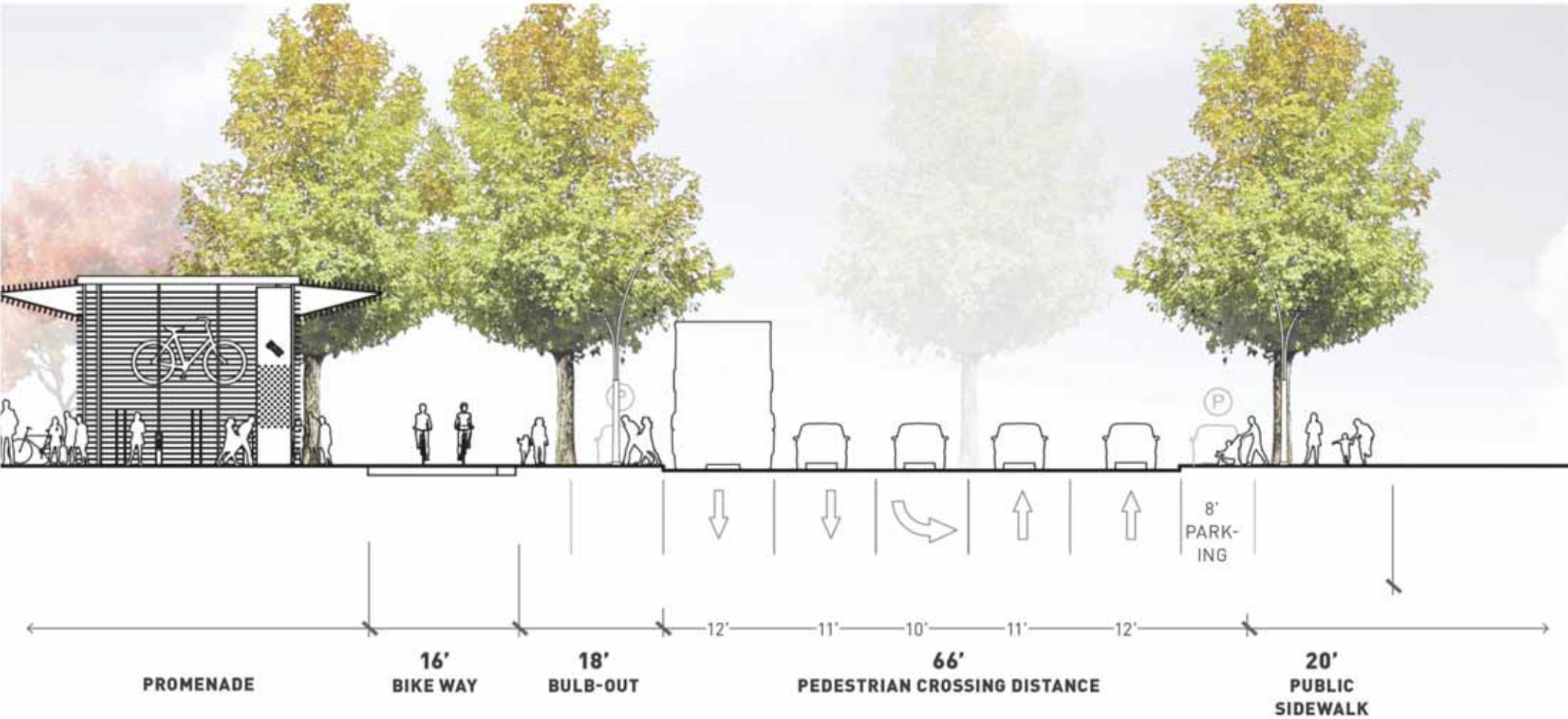
- A: S. KING ST. TO YESLER WAY
- B: YESLER WAY TO SPRING ST.
- C: SPRING ST. TO PIKE ST.
- D: ALASKAN WAY TO LENORA ST.
- E: ELLIOTT WAY LENORA ST TO BELL ST.

0.5 MILE

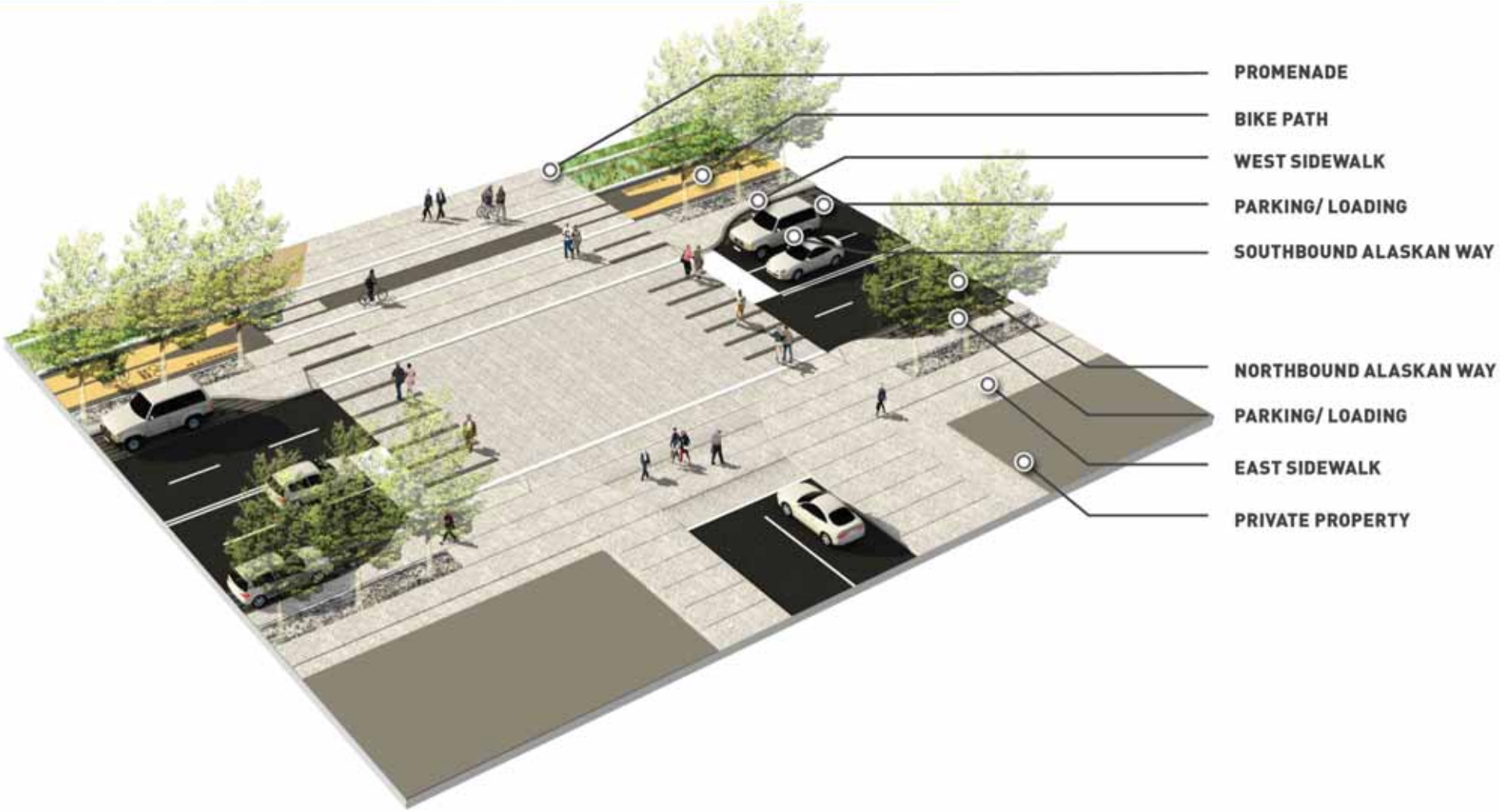
A: Alaskan Way at S. Main Street



C: Alaskan Way at Spring Street



Pedestrian-Friendly Crossings



A Great Urban Street

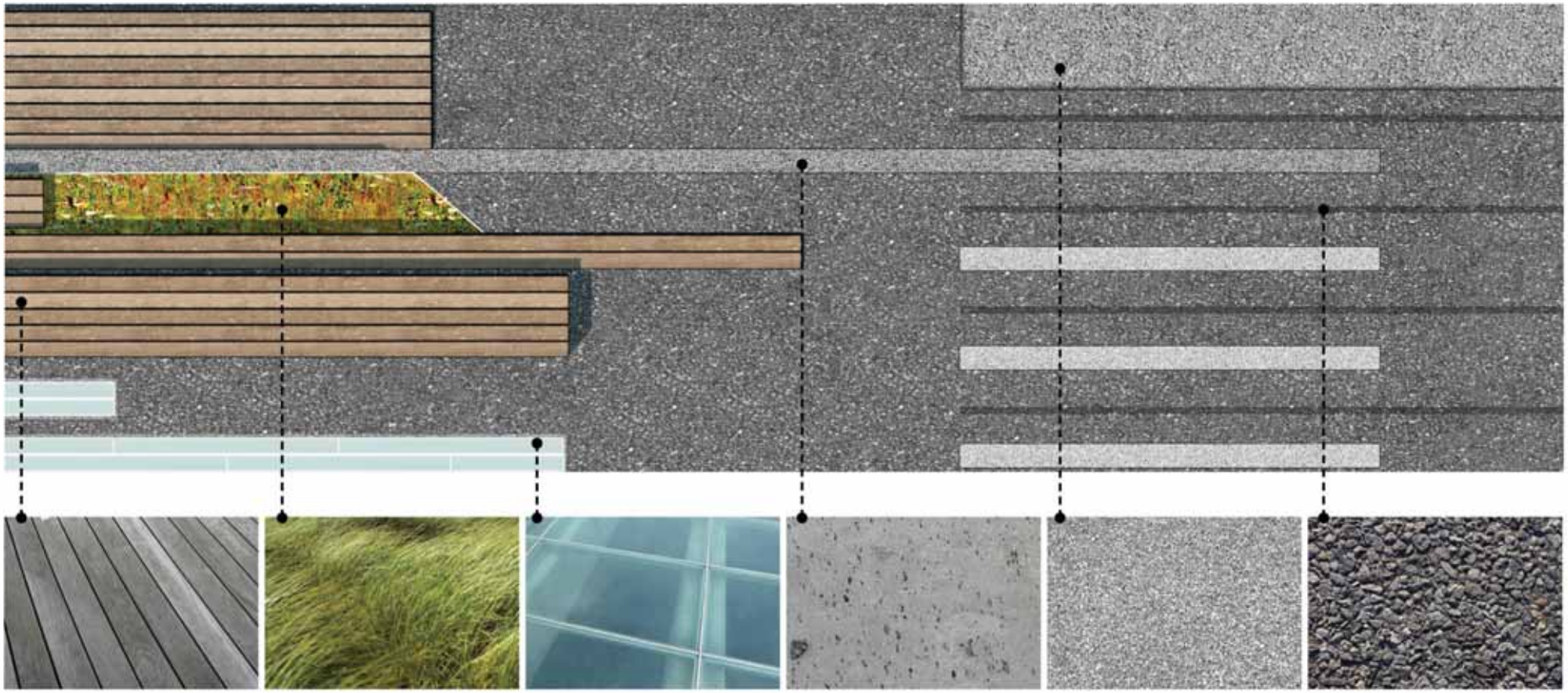
Revitalized Street Frontages

Revitalized Street Frontages

A Dedicated Bike Path

A Continuous Promenade

“Tideline” Promenade Floor Materials



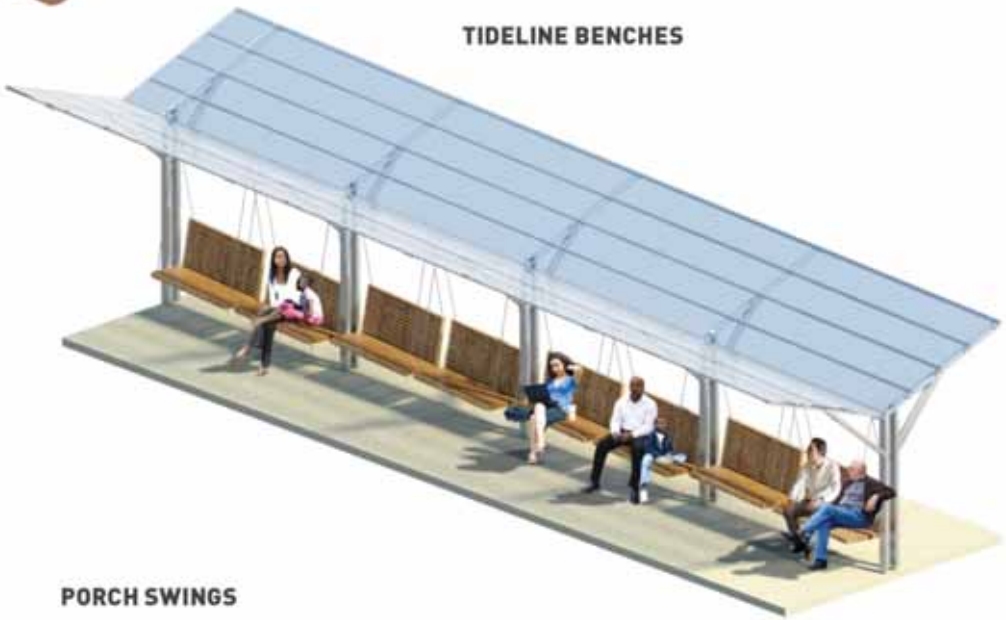
Promenade Seating

MOVABLE TABLES AND CHAIRS

DRIFTWOOD BENCH

TIDELINE BENCHES

CHAISES



PORCH SWINGS

Promenade Kiosks

MAPS + INFORMATION

BIKE PARKING + SERVICE

CAFE

RESTROOM

Promenade at Historic Piers

Promenade at Historic Piers

Promenade at Colman Dock

Waterfront Destinations

Pioneer Square

1. SEAWALL BEACH
2. WASHINGTON ST. BOAT LANDING
3. BOARDWALK
4. GLACIAL ERRATICS
5. FIR SHORELINE
6. SEAWALL BENCH
7. CONNECTION TO PIER 48
8. S. MAIN ST. IMPROVEMENTS
9. S. WASHINGTON ST. IMPROVEMENTS

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'

South Washington Street

Pioneer Square

Colman Dock

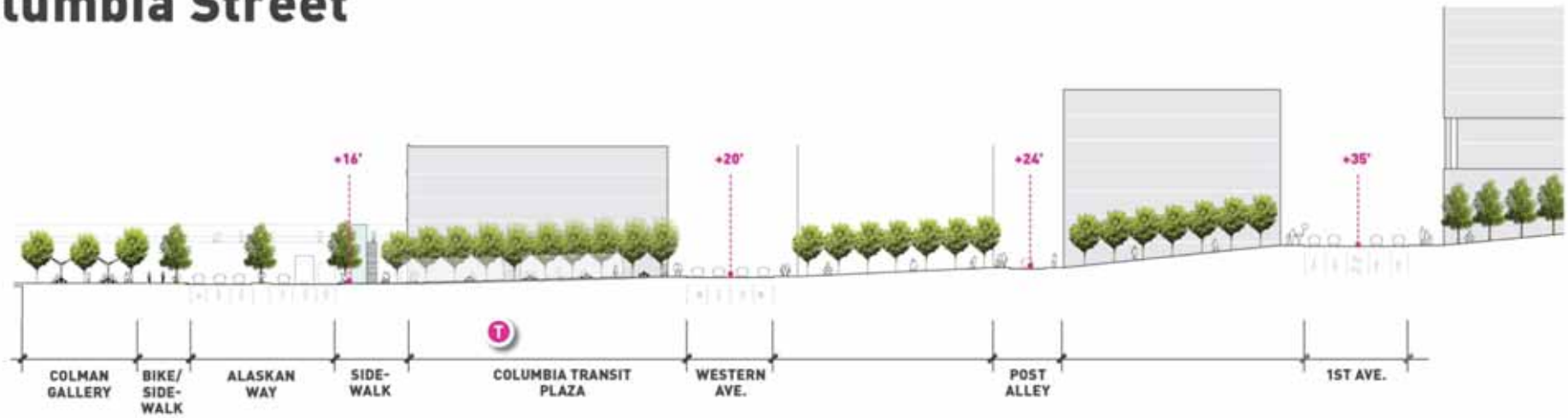
1. COLMAN DOCK GALLERY
2. CANOPY SHEDS
3. BOSQUE
4. PASSENGER FERRY
5. CONNECTION TO COLMAN DOCK
6. MARION ST. BRIDGE
7. CONNECTION TO MARION ST. BRIDGE
8. COLUMBIA ST. IMPROVEMENTS
9. BIKE PATH

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'

Columbia Street



0' 10' 20' 40' 80'

Colman Dock

Historic Piers

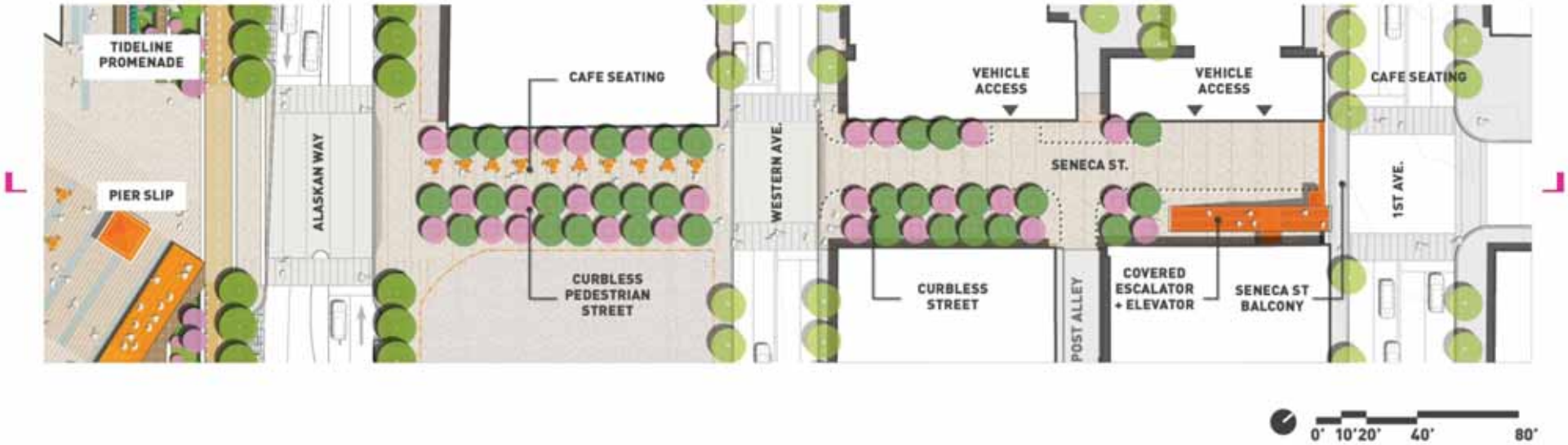
1. TIDELINE PROMENADE
2. TERRACE GARDENS
3. PIER SLIPS
4. TERRACE BOARDWALK
5. KIOSKS
6. LIGHT-PENETRATING SURFACE
7. BIKE PATH
8. SENECA ST. IMPROVEMENTS
9. ELEVATOR AND ESCALATOR

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'

Seneca Street



Historic Piers

Historic Piers

Union Street Pier

1. THE CLOUD
2. BAY STEPS
3. BIRCH THICKET
4. UMBRELLAS
5. KIOSK
6. BIKE PATH
7. ELEVATOR + ESCALATOR
8. UNION STREET IMPROVEMENTS
9. AQUARIUM EXPANSION AREA

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'

Union Street

Union Street Pier

Union Street Pier

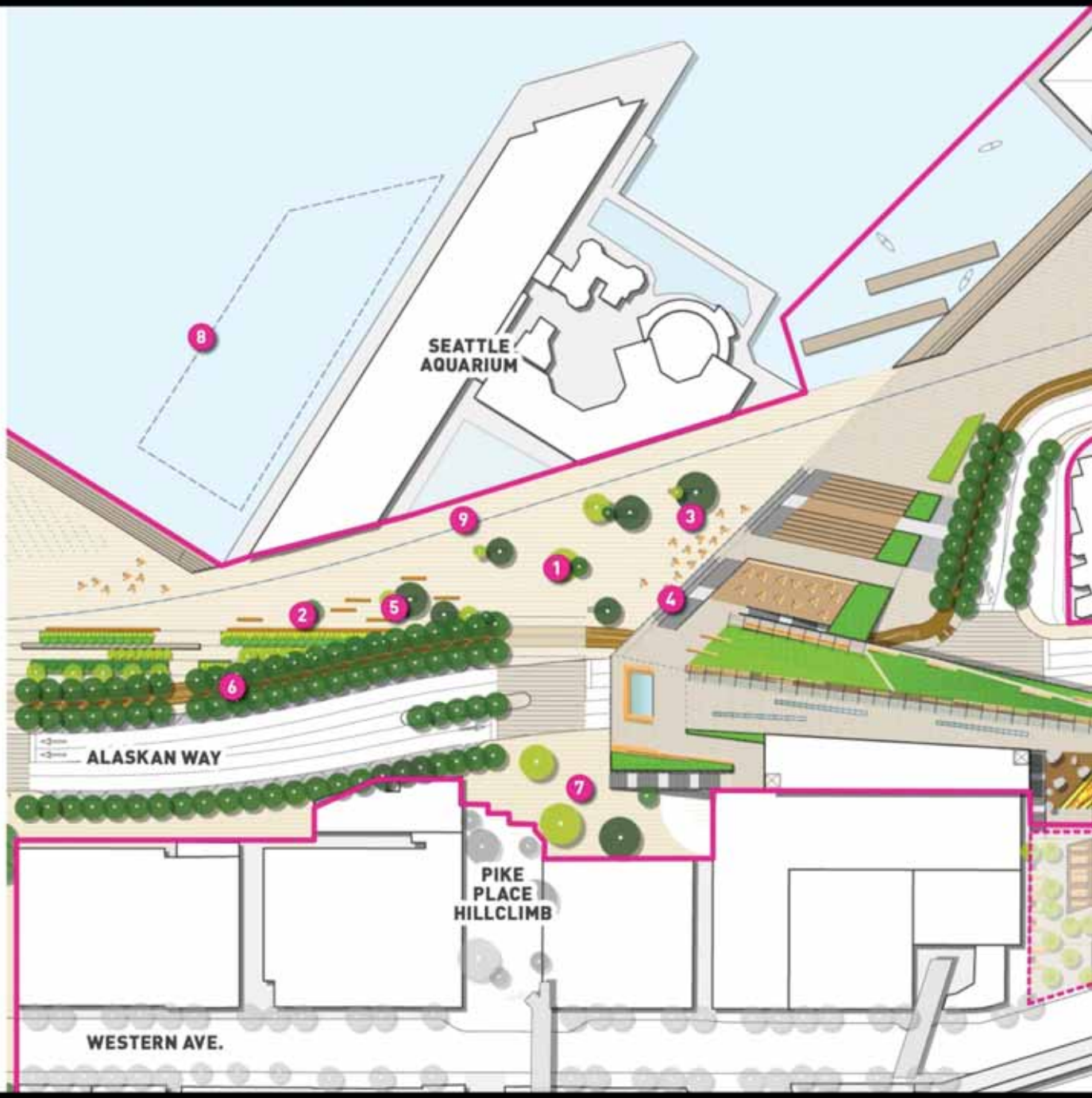
Aquarium Plaza

1. AQUARIUM PLAZA
2. AQUARIUM ENTRY SEATING
3. CAFE SEATING
4. BUILDING C ENTRY
5. DISPLAY CASES
6. BIKE PATH
7. FIX/MADORE PLAZA
8. AQUARIUM EXPANSION AREA
9. PROMENADE

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'



Aquarium Expansion Study

Courtesy of Seattle Aquarium

Aquarium Plaza
QUARIUM

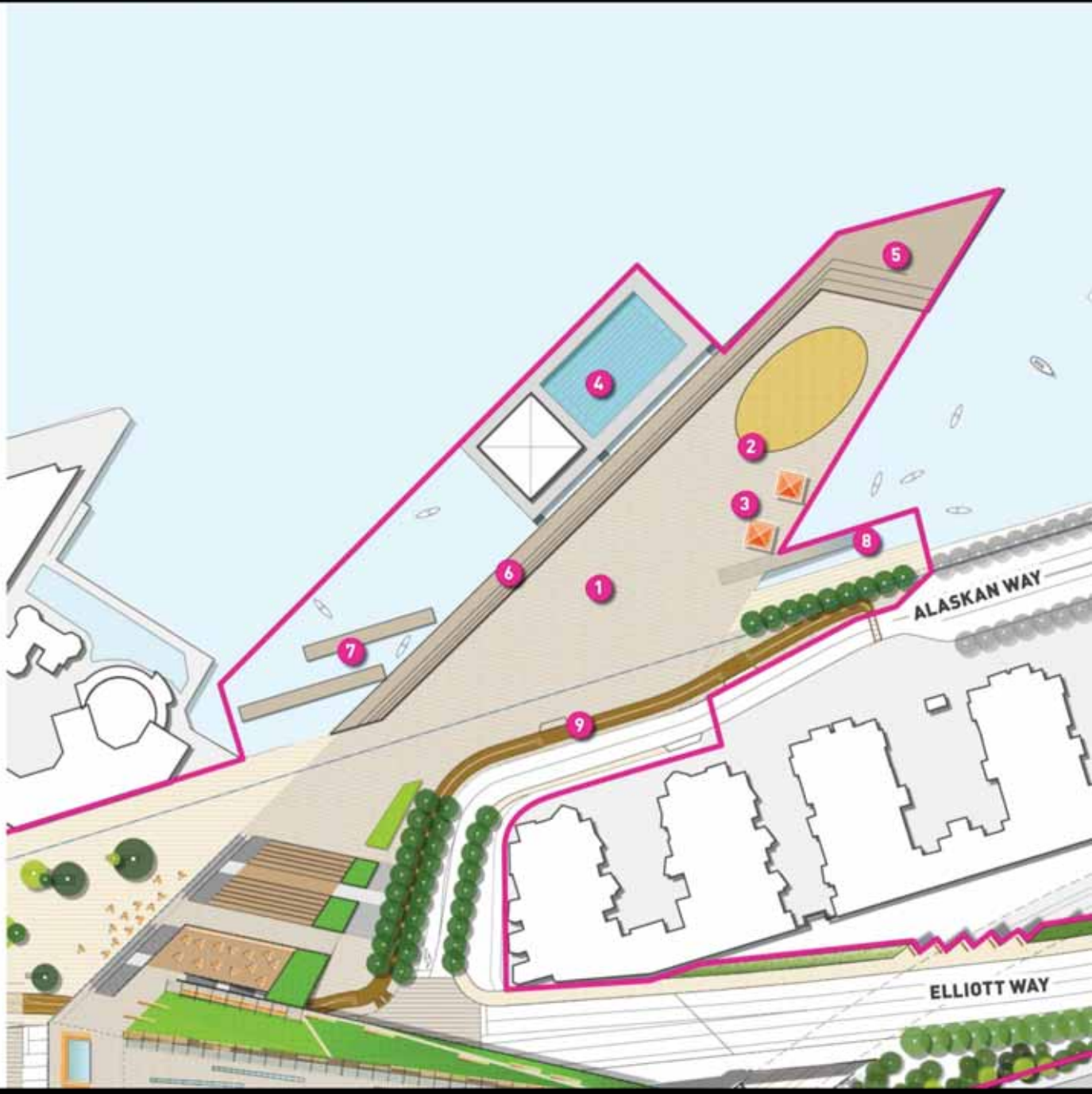
Pier 62/63

1. PIER 62/63
2. SKATING RINK
3. CONCESSION
4. BARGE POOL/ FLOATING STAGE
5. LOOKOUT DECK
6. GRANDSTAND
7. FLOATS
8. KAYAK LAUNCH
9. BIKE PATH

CORE PROJECT AREA

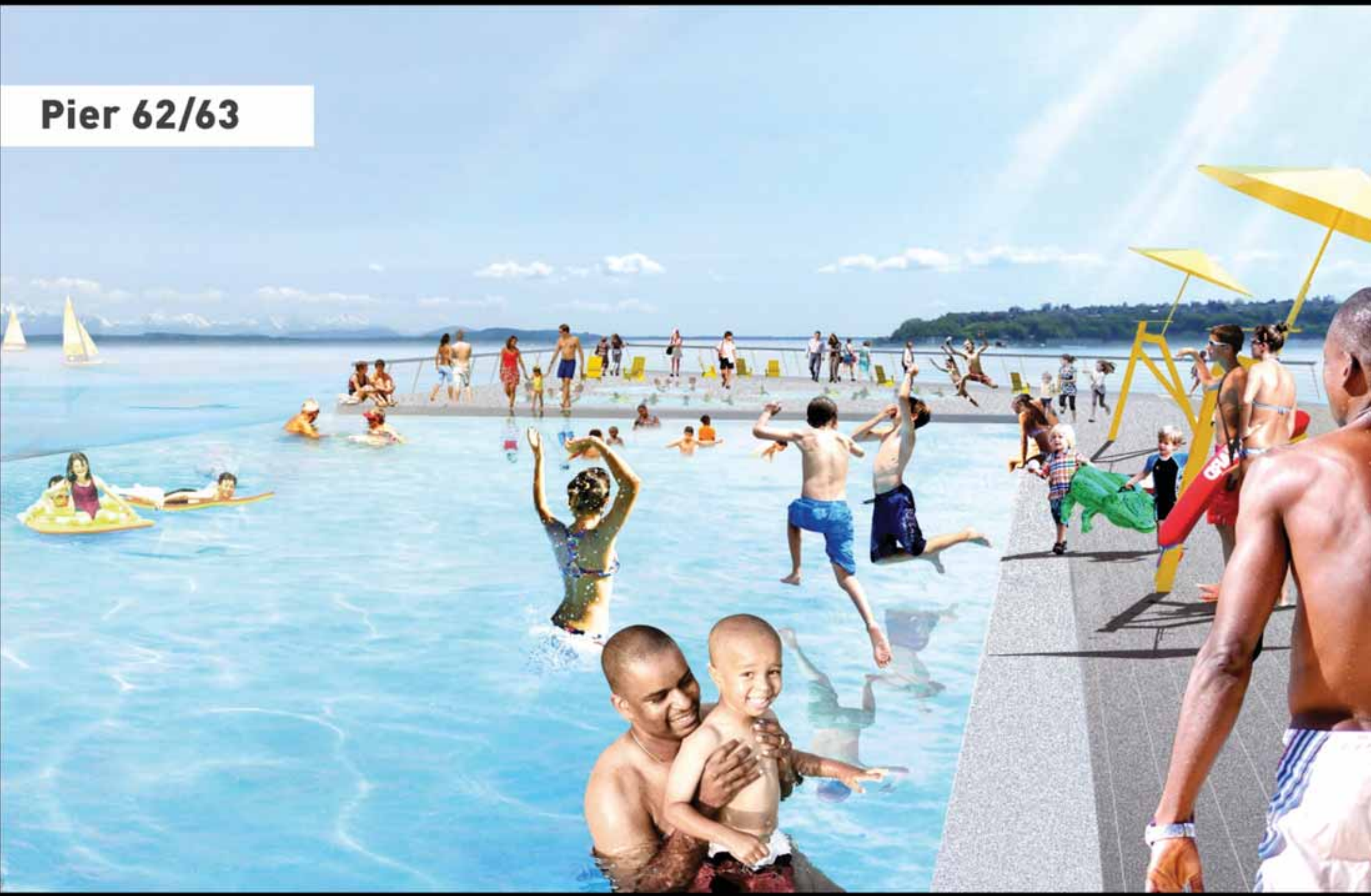
SEAWALL

0' 50' 100' 200'



Pier 62/63

Pier 62/63


Pier 62/63

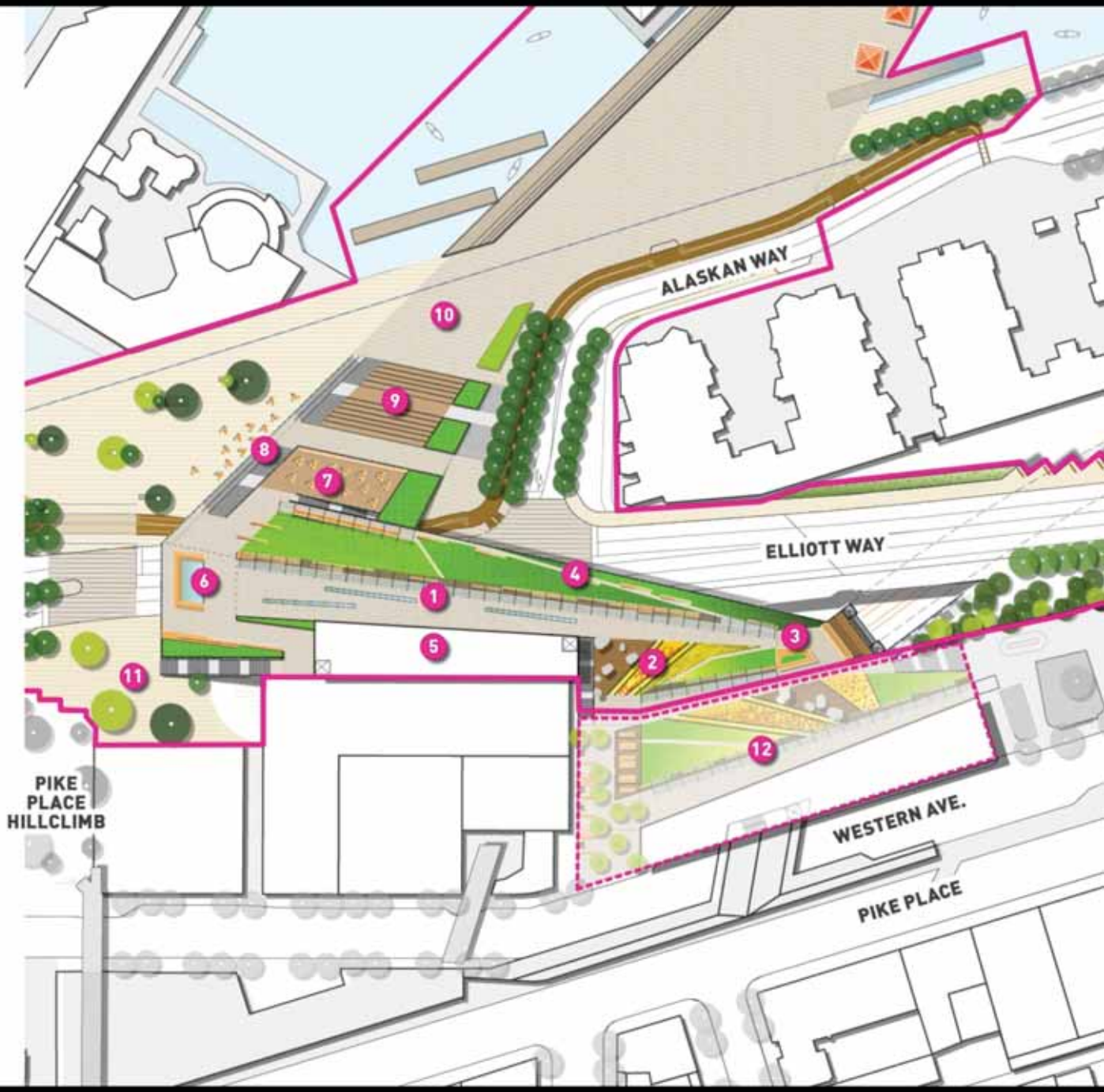
Overlook Walk

1. OVERLOOK WALK
2. PLAY SLOPES
3. TRAIN OVERLOOK
4. GARDENS
5. BUILDING B
6. BALCONY
7. OVERLOOK DECK
8. ESCALATORS AND STAIRS
9. AMPHITHEATER STEPS
10. STAGE
11. FIX/MADORE PLAZA
12. PC-1/ PIKE PLACE MARKET

CORE PROJECT AREA

SEAWALL

0' 50' 100' 200'

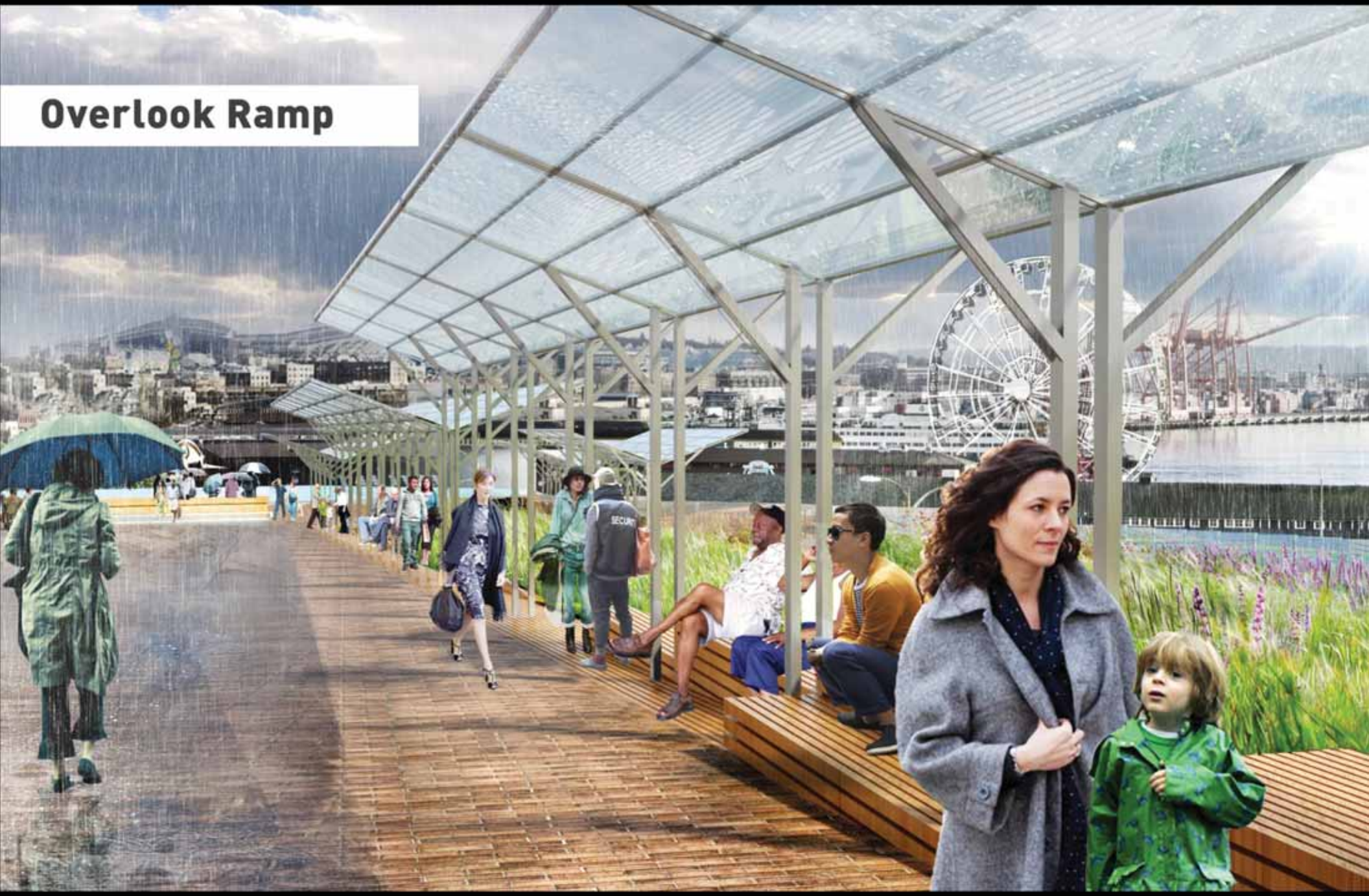


Overlook Walk

PC-1 Site
Courtesy of Pike Place Market PDA

Overlook Walk Play Slopes

Overlook Walk Gardens


Overlook Ramp

Overlook Balcony

Overlook Deck

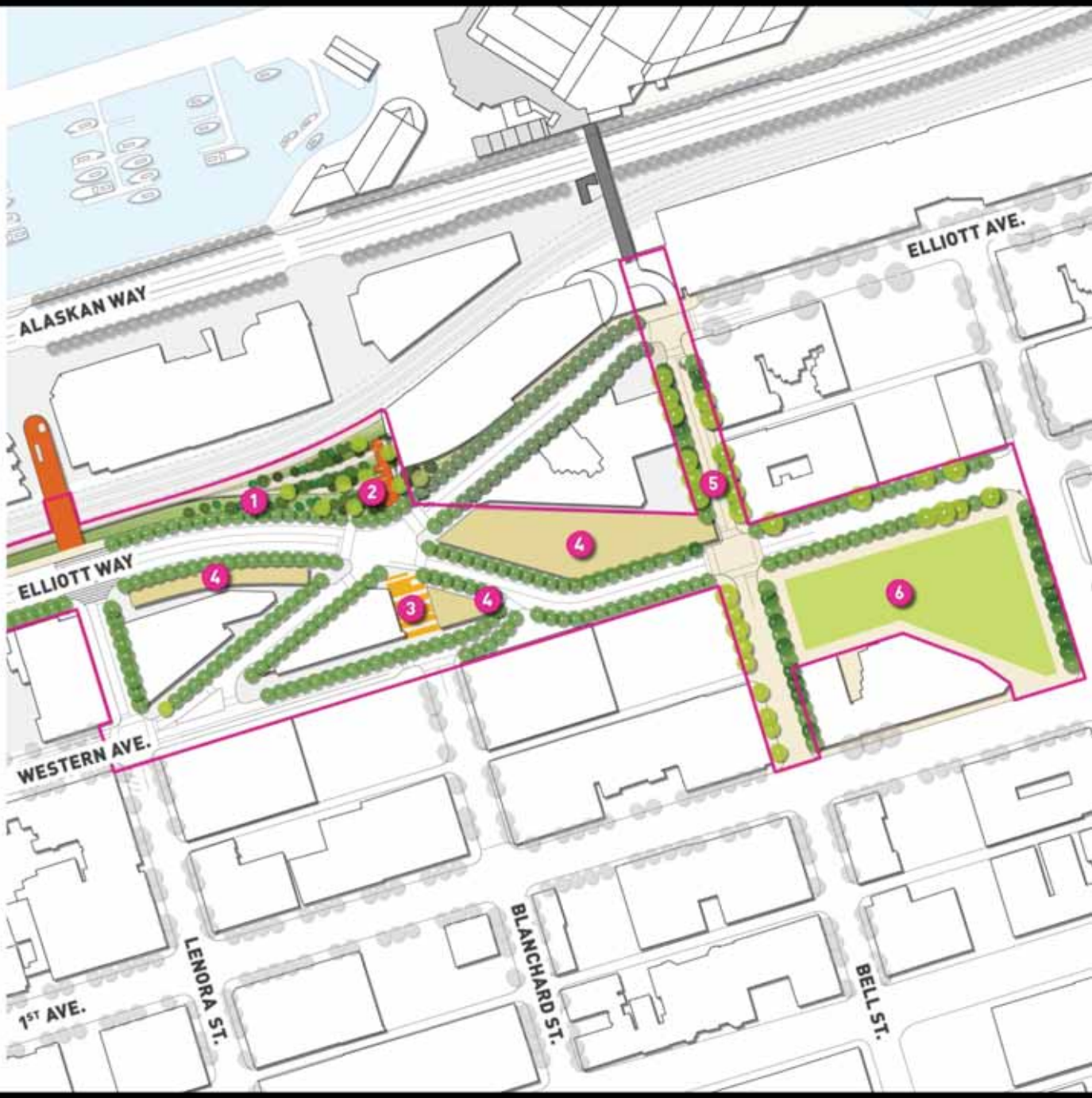
Overlook Amphitheater

Belltown Bluff

1. BELLTOWN BLUFF
2. BLANCHARD OVERLOOK
3. BLANCHARD SQUARE
4. DEVELOPMENT OPPORTUNITIES
5. BELL ST. IMPROVEMENTS
6. BELLTOWN INTERIM IMPROVEMENTS

— CORE PROJECT AREA

0' 50' 100' 200'



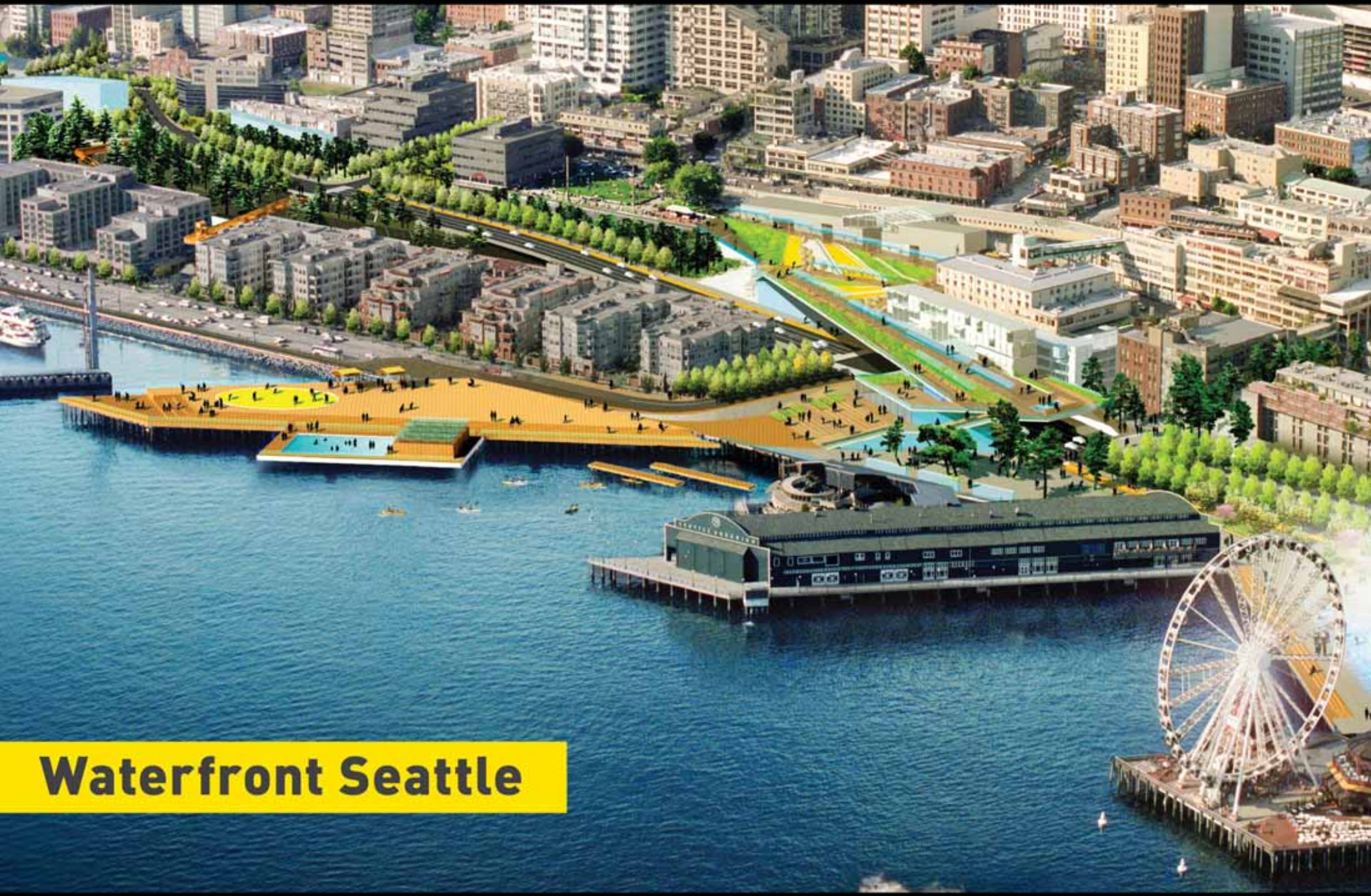
Blanchard Overlook

Waterfront Seattle

Waterfront Seattle

Waterfront Seattle

Waterfront Seattle


Waterfront Seattle

CWC Strategic Plan

GUIDING PRINCIPLES

Create a **waterfront for all**

Shoreline and innovative, sustainable design

Reconnect the city to its waterfront

Embrace and celebrate Seattle's **history**

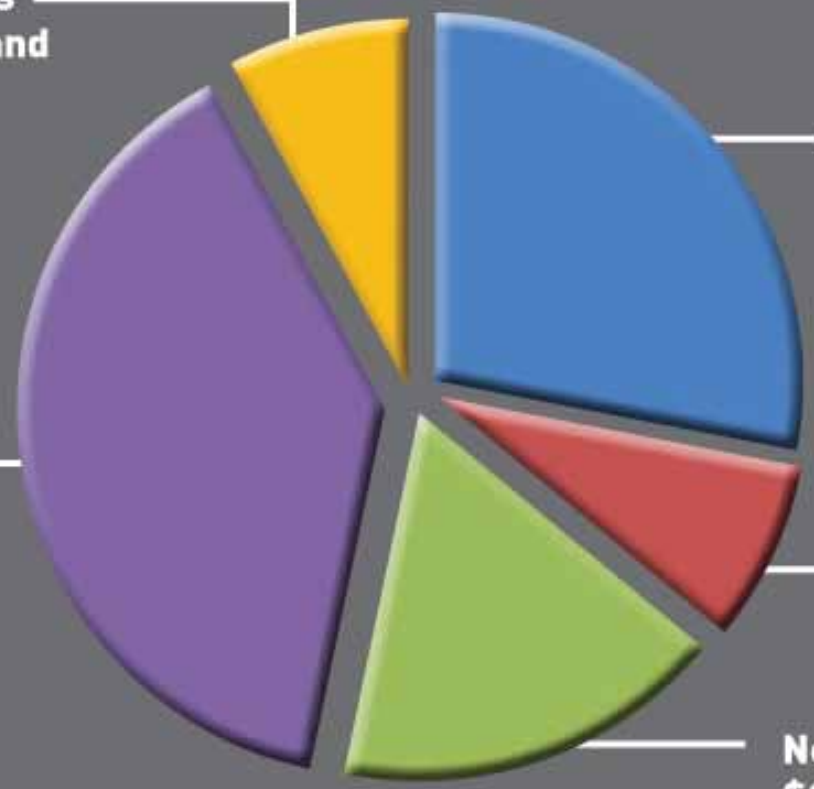
Improve mobility and **access**

Create a bold vision that is **adaptable** over time

Develop consistent **leadership**

COST ESTIMATES

BASED ON 5-10% DESIGN

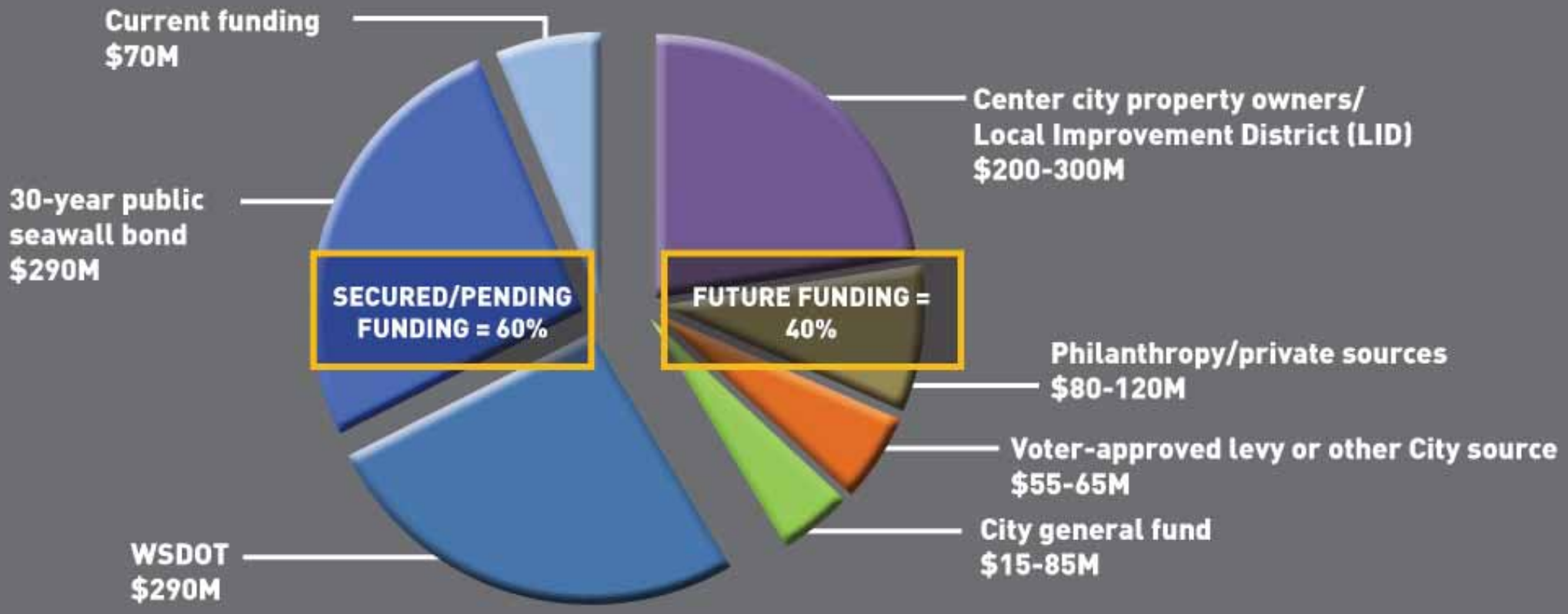


TOTAL= $1.07B

Source: CWC Strategic Plan

FUNDING SOURCES

PUBLIC + PRIVATE



TOTAL= $1.07B

Source: CWC Strategic Plan

ACTION PLAN
HIGHLIGHTS

2013
Start Seawall phase 1 construction

Union St. pedestrian connection

2014
Local Improvement District (LID)

2015
SR 99 tunnel opens (late 2015)

Rebuild public piers

Source: CWC Strategic Plan

ACTION PLAN
HIGHLIGHTS

2016

Finish Seawall phase 1 construction

Finish viaduct demolition

2016-18

Build new:

- **Alaskan Way + Elliott Way**
- **Pedestrian promenade**
- **Parks + open space**

Source: CWC Strategic Plan

FRIENDSOFSEATTLEWATERFRONT

Welcome to Friends of Seattle Waterfront!
We are a new not-for-profit created from grassroots support for *Waterfront Seattle,* an effort to transform 26 blocks of the Seattle waterfront between Pioneer Square and the Olympic Sculpture Park.

We will be adding new content to this website over the next few weeks. If you'd like to **stay updated** on our progress and learn how you can **be involved**, leave us your name and contact info.

We will support the City of Seattle's Waterfront Seattle project with **outreach**, **education**, **advocacy** and **fundraising**.

JOIN THE MAILING LIST

name:

email:

address 1:

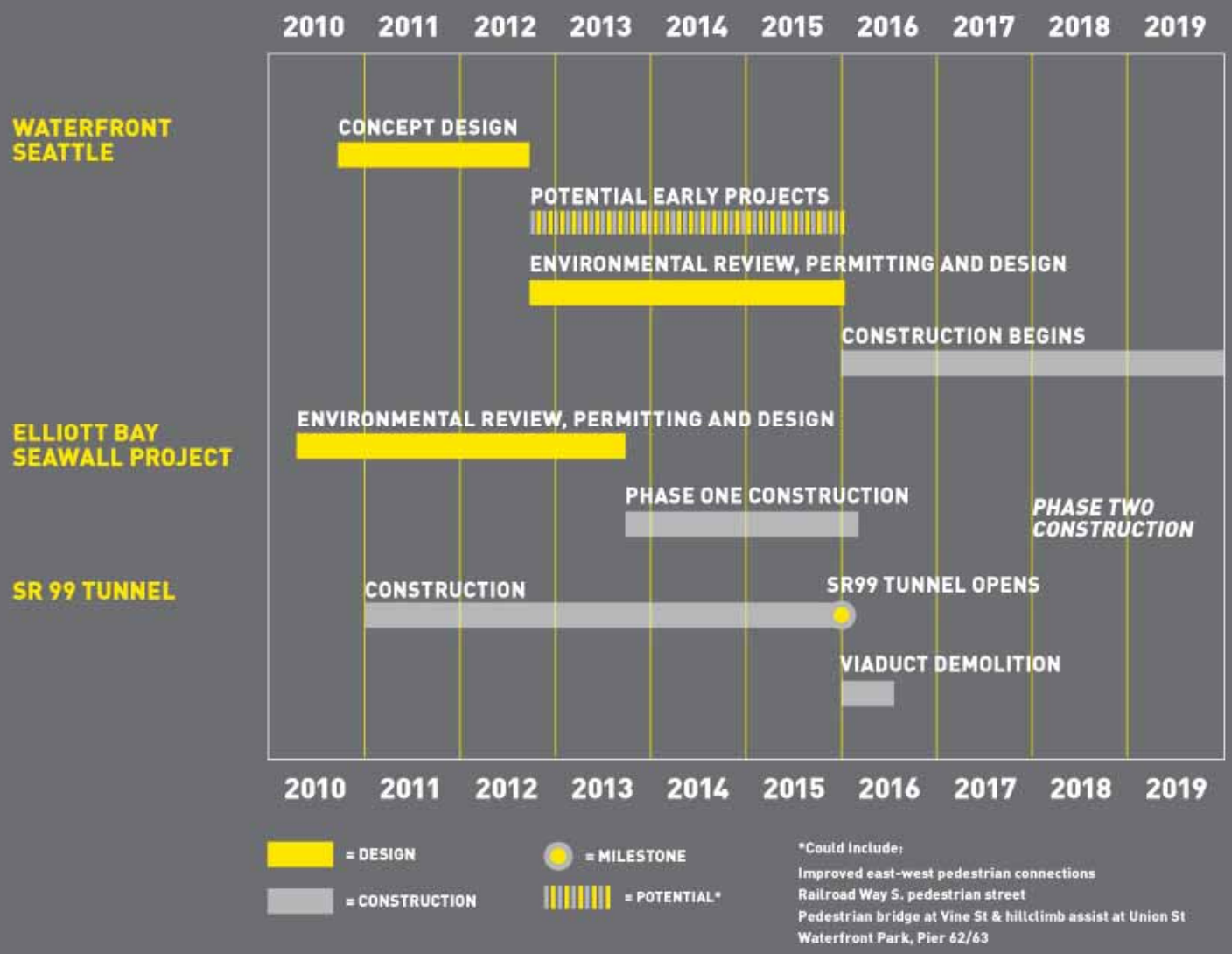
address 2:

city:

state: zip:

submit

Image courtesy of the City of Seattle and james corner field operations



KEY MILESTONES

Fall 2010: Begin waterfront conceptual design

January 2011 to July 2012: Robust public engagement and outreach including large civic events, interactive community forums, and briefings and workshops throughout the community

July 2012: Complete waterfront conceptual design

July 2012 to 2015: Continue robust public engagement and outreach through design and environmental review

Late 2013: Begin construction of Elliott Bay Seawall Phase 1 (Washington to Virginia Streets)

Late 2015: SR 99 tunnel opens to drivers

Early 2016: Demolish Alaskan Way Viaduct and begin construction of some Waterfront Seattle projects

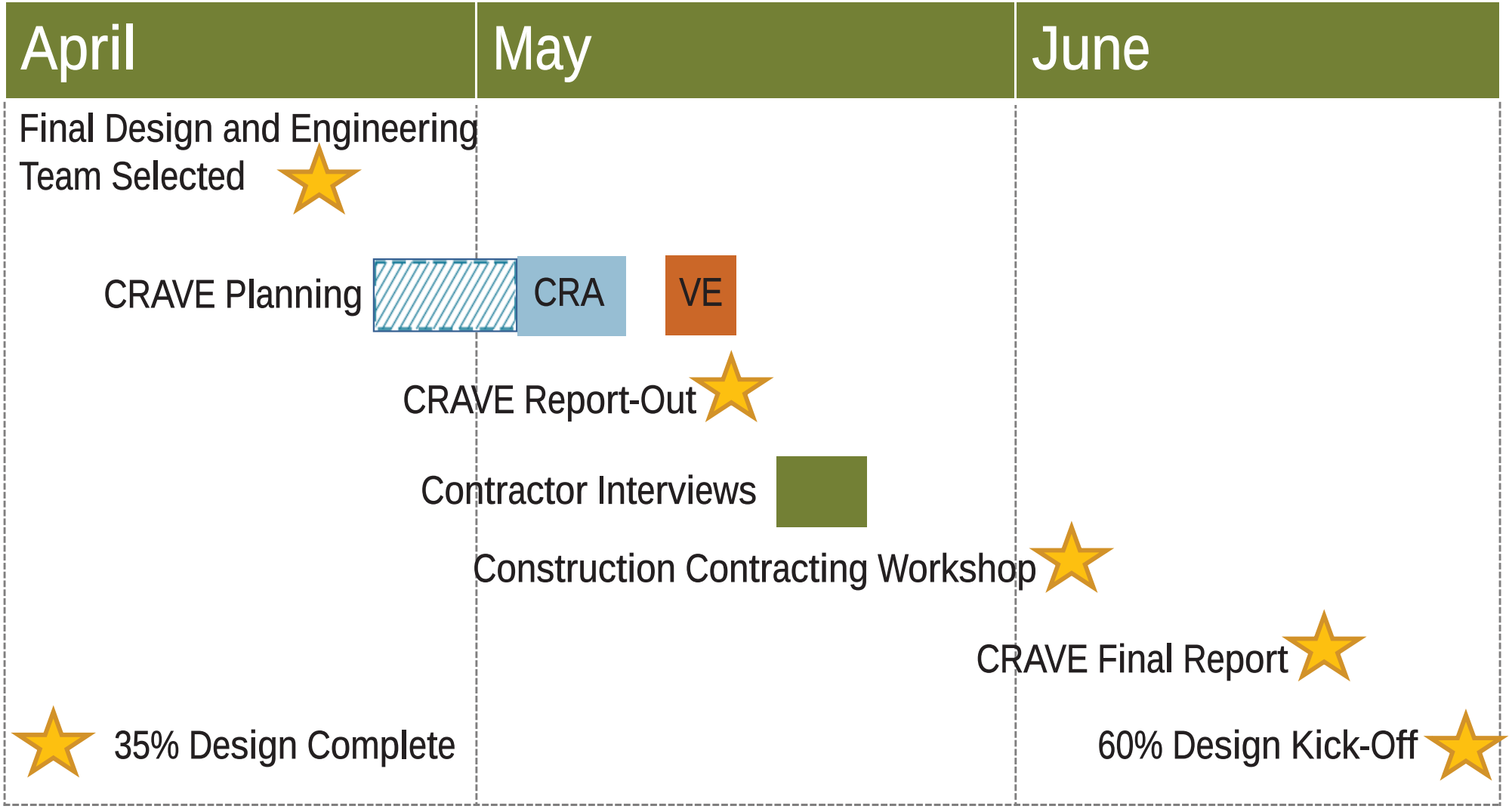
What are your priorities as we move into the next phase of design?

Elliott Bay Seawall Project Update

Ballot Measure

- July 9, 2012: Seattle City Council passed ordinance to send proposed $290 million bond issue to voters
- If voters approve, the City will be authorized to issue bonds to fund the following:
  - a portion of the costs related to the design, construction, renovation, improvement, and replacement of the seawall
  - associated public facilities and infrastructure, including City-owned waterfront piers

Spring 2012 Work



Cost Risk Assessment and Value Engineering Findings

CRAVE Overview

- Multi-disciplinary (40+ participants)
- Collaborative, team approach
- Workshop objectives:
  - **CRA:** Quantify uncertainty in project cost and schedule
  - **CRA:** Prioritize risks and opportunities to enable management
  - **VE:** Explore alternative design and construction approaches
  - **VE:** Identify opportunities to improve function and reduce cost
- **Outcome:** Provide input to decision makers and design team

Cost Risk Assessment Workshop

- Brought independent perspective
- Provided comprehensive review (design, environmental, construction, outreach, contracting)
- Validated and quantified uncertainty in project assumptions
- Identified and quantified risks and opportunities
- Developed risk register

Cost Risks and Opportunities

Risks and Opportunities	Potential % Cost Impact
Missed work windows	+ 20%
Unexpected work restrictions	+ 12%
Construction coordination	+ 2%
Design changes	+ / -
Re-use of materials	- 7%
Alternate soil improvement methods	- 15%
Jet grout design refinement	- 23%

Schedule Risks and Opportunities

Risks and Opportunities	Potential Activity Duration Impact
Environmental approvals	+ 6 mo
Utility design coordination	+ 5 mo
Design review and approvals	+ 2 mo
Maintenance of access	+ 1 mo
Jet grout productivity	+ 1 mo
Construction approach	- 2 mo
Optimized soil improvement solution	- 2 mo

Value Engineering Workshop

- Explored alternative design and construction approaches
- Identified opportunities to improve function and performance and reduce cost
- Included focus criteria:
  - Business impacts
  - Environmental impacts
  - Constructability
  - Schedule
  - Agency approval
  - Waterfront coordination

Key Design and Cost Questions after 35%

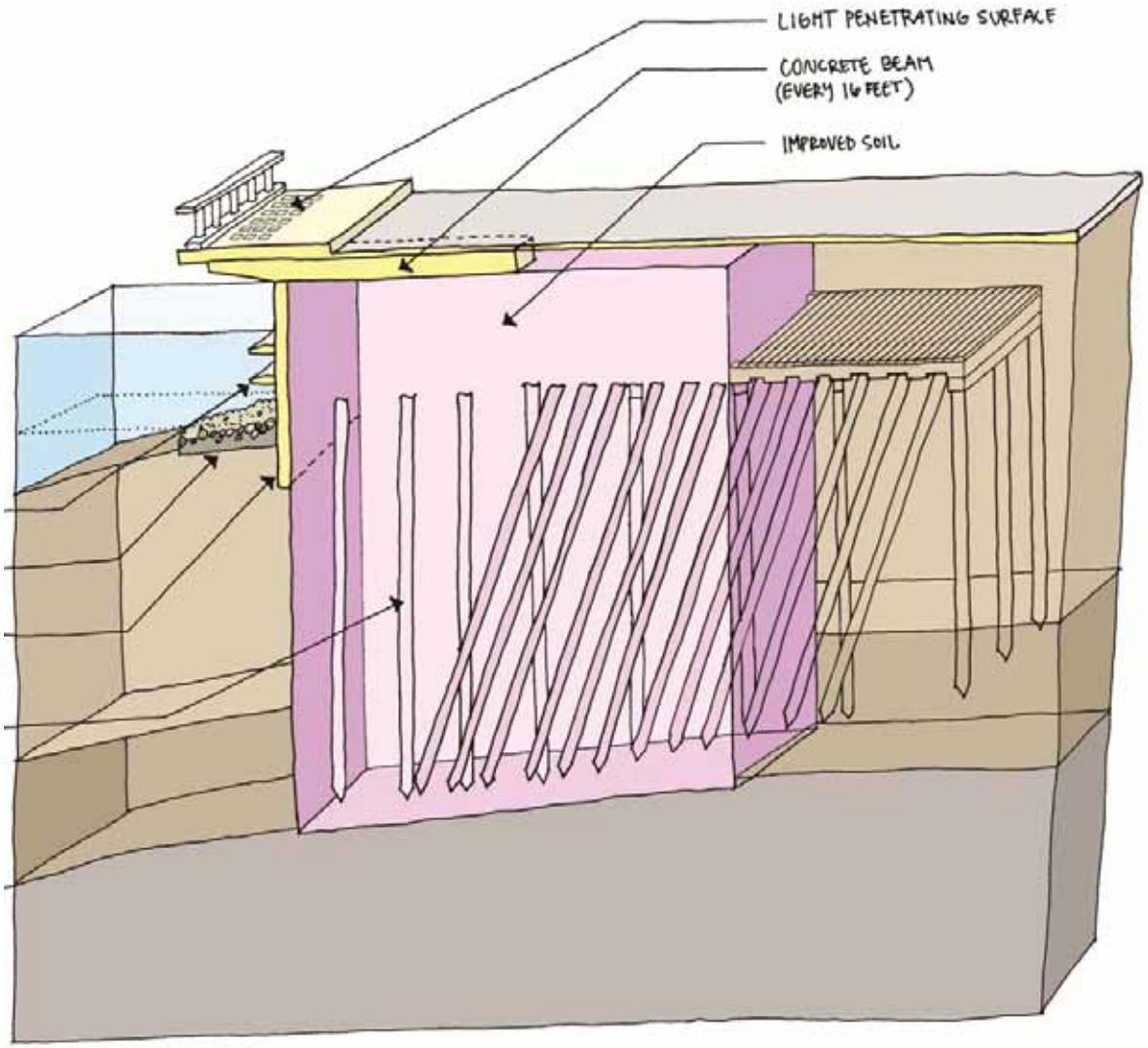
Structural:

Do we have the most streamlined, elegant structure, with few redundant elements?

Work sequence:

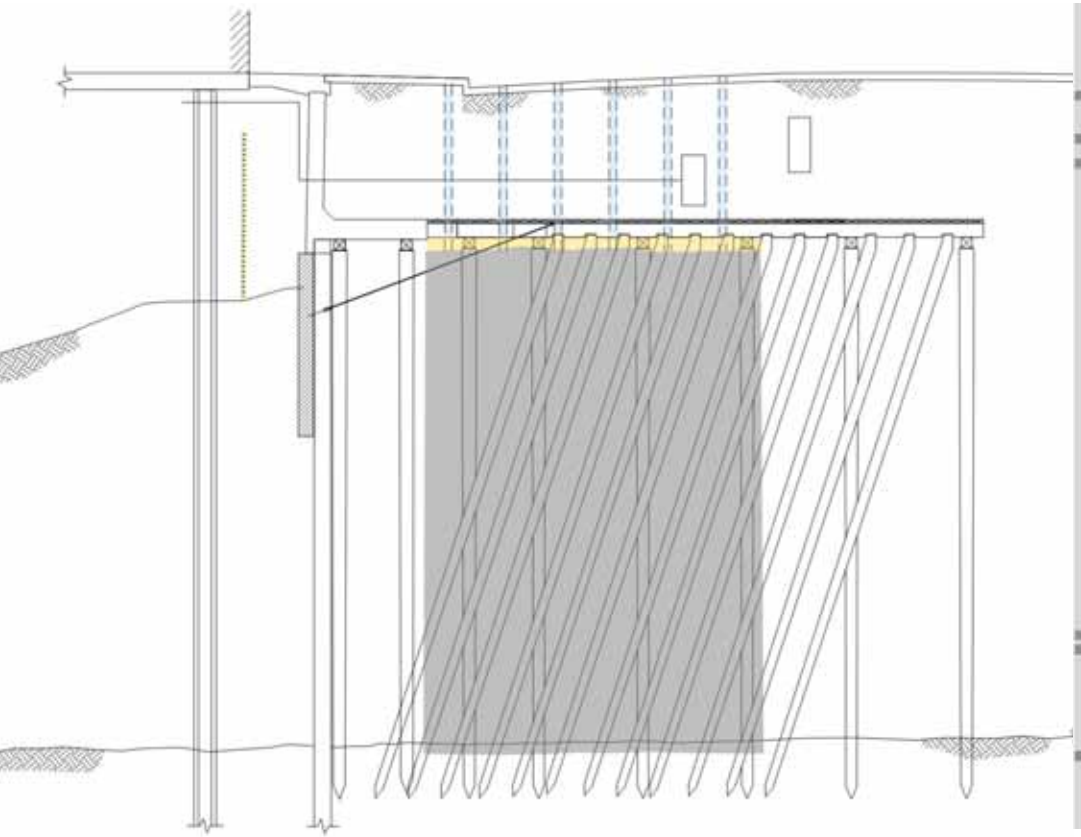
Can we maximize access and minimize impact for:

- Businesses
- Users
- Environment
- Utilities

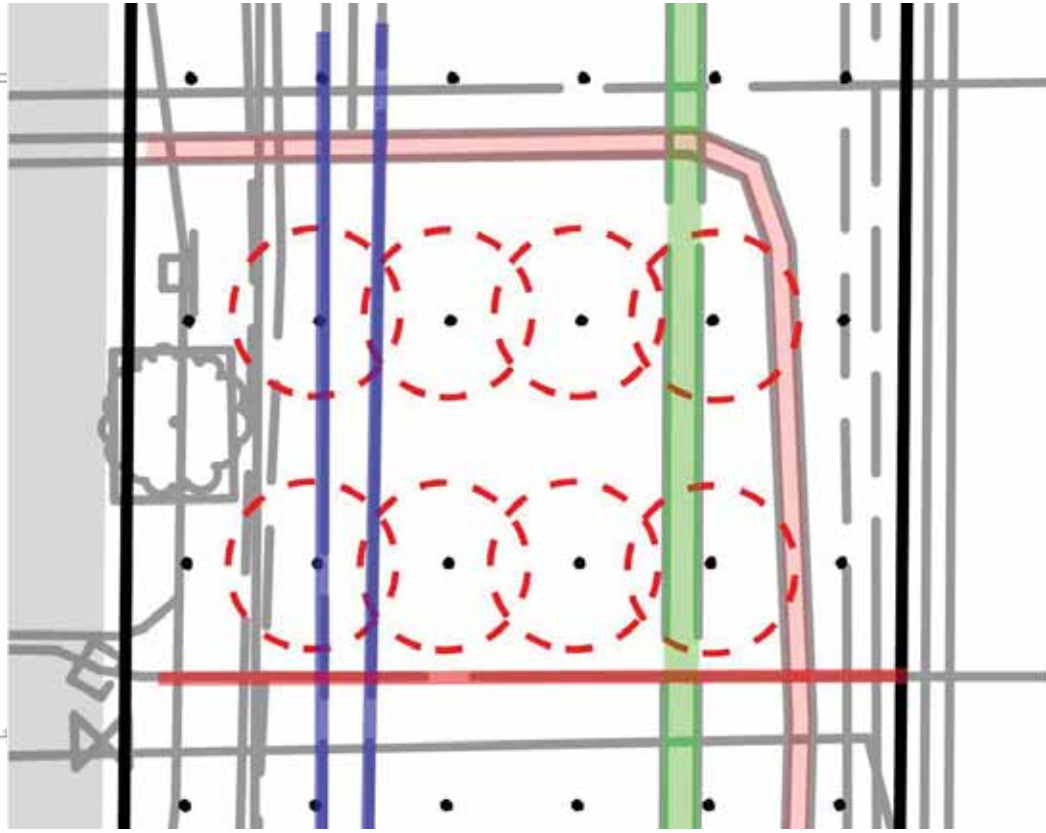


Key Findings from Value Engineering

- Jet grout from street surface
- Optimize jet grout column configuration



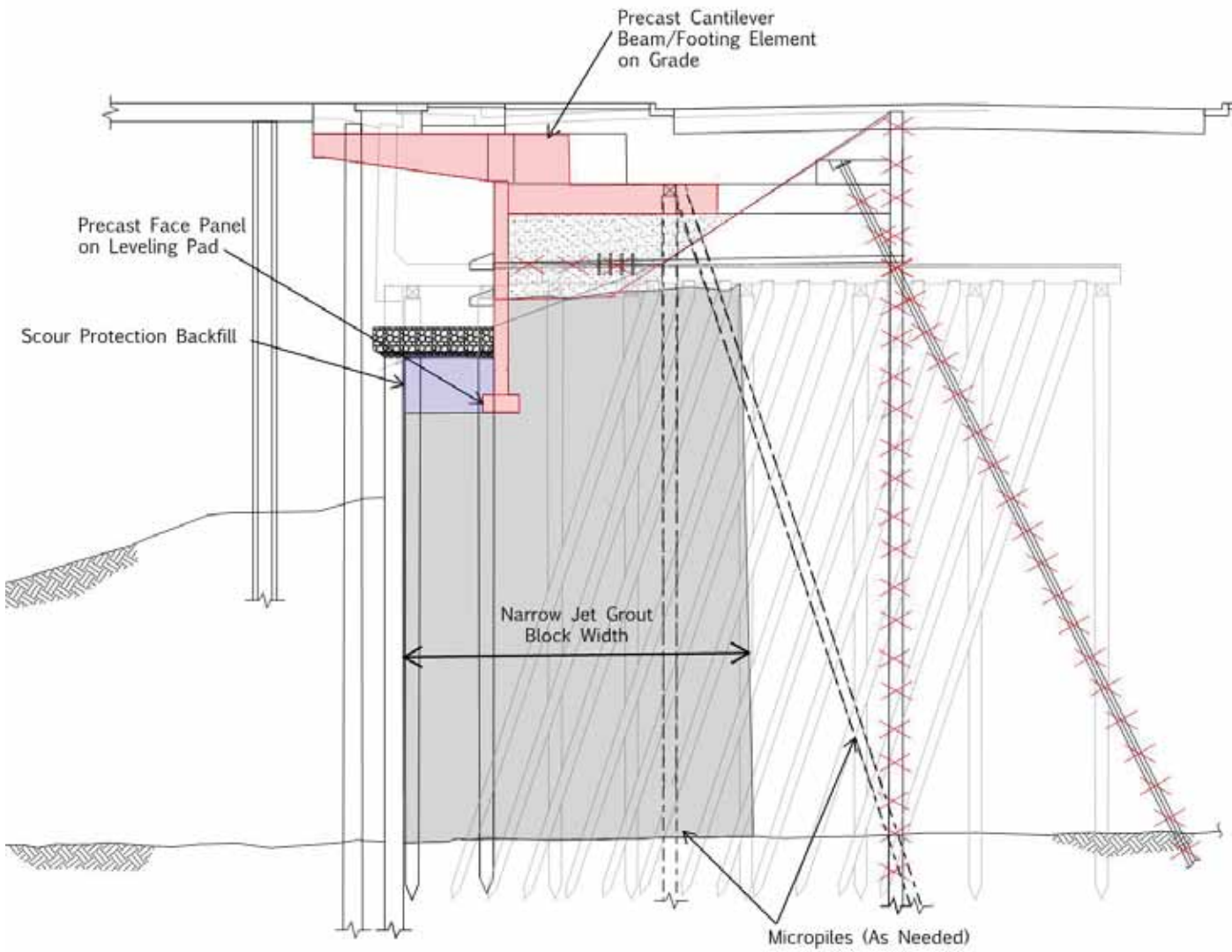
Grout from Surface



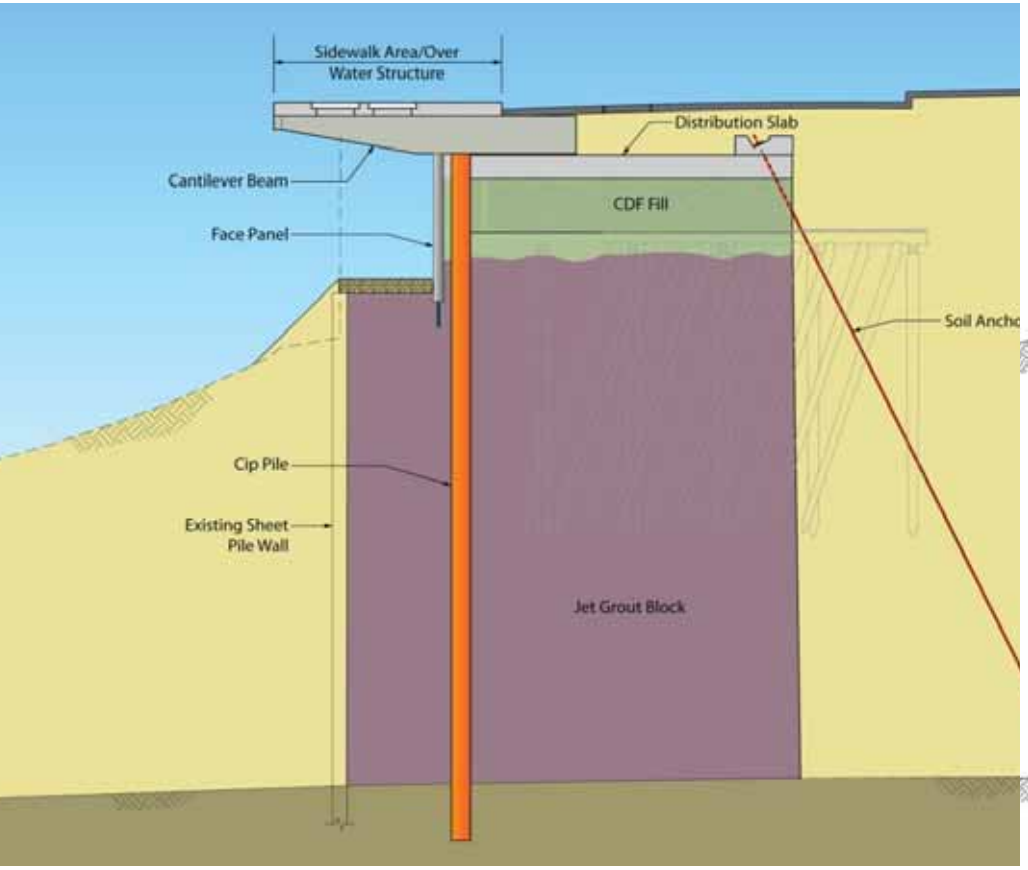
Column Schematic

Key Findings from Value Engineering

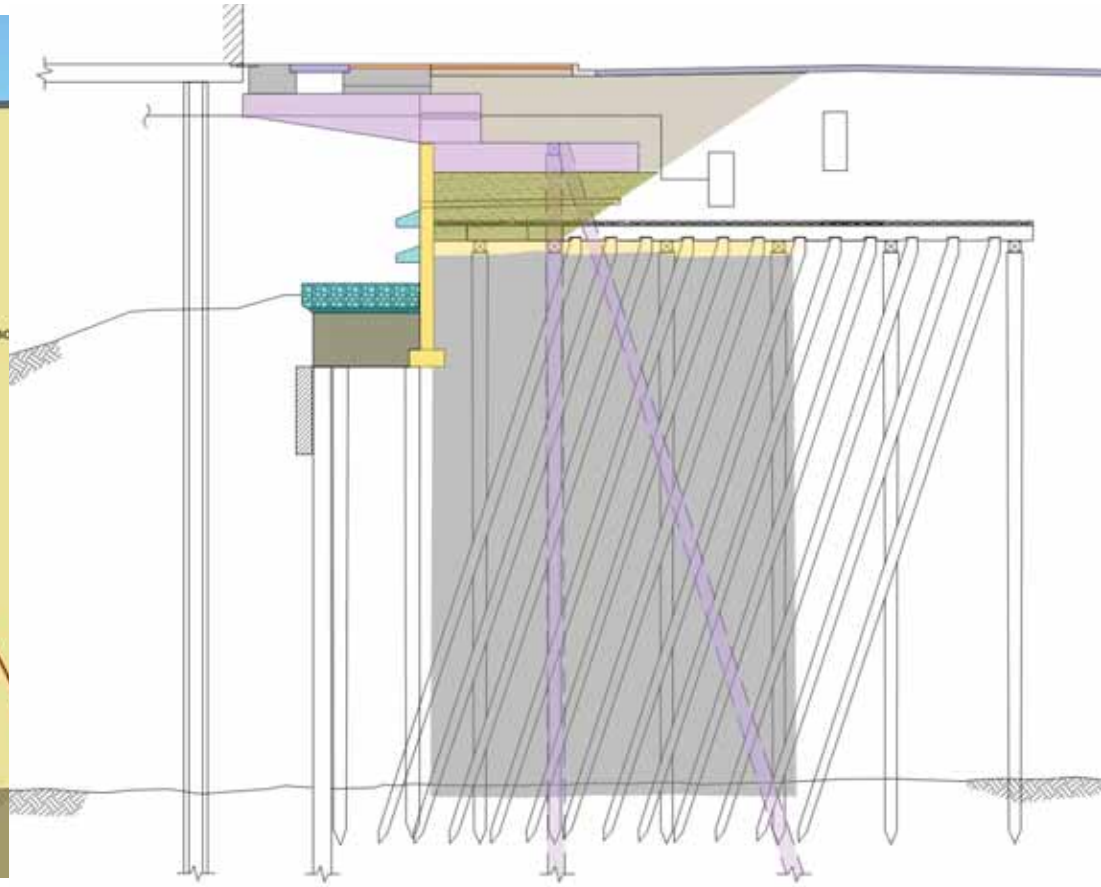
- Consider alternate methods of soil improvement, where feasible
- Refine seismic criteria
- Expand use of precast elements



Moving to Final Design



35% Design



Preliminary Approach to Final Design

Construction Contracting Approach

Construction Contracting Workshop

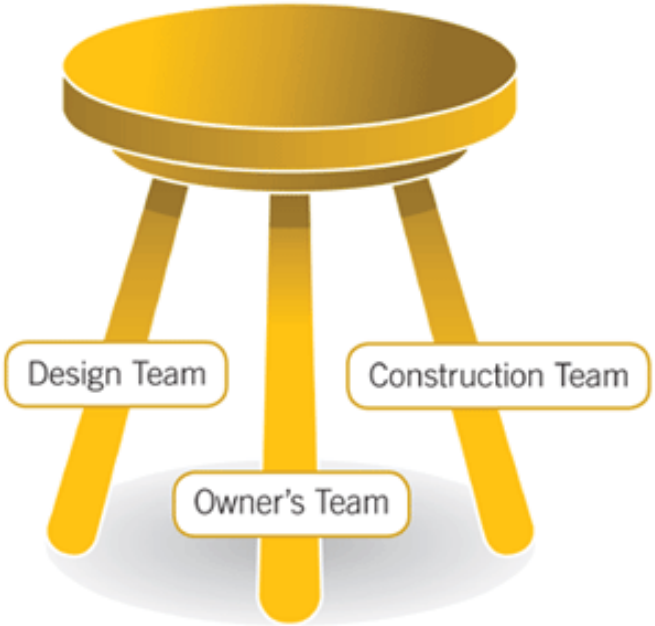
- Construction contract will be City's largest to date
- Decision in late 2011—prior to completion of 35% design—was design-bid-build, with pre-qualification
- Project changes necessitated revisiting best approach
  - Progression of design and understanding of jet grouting
  - Selection of final design team
  - Clarity on project schedule
- Pre-meetings held with soil improvement contractors
  - Having expertise of "the" jet grout contractor on board early will be a factor in project schedule and performance
- **Consensus Recommendation:** Pursue GC/CM approach

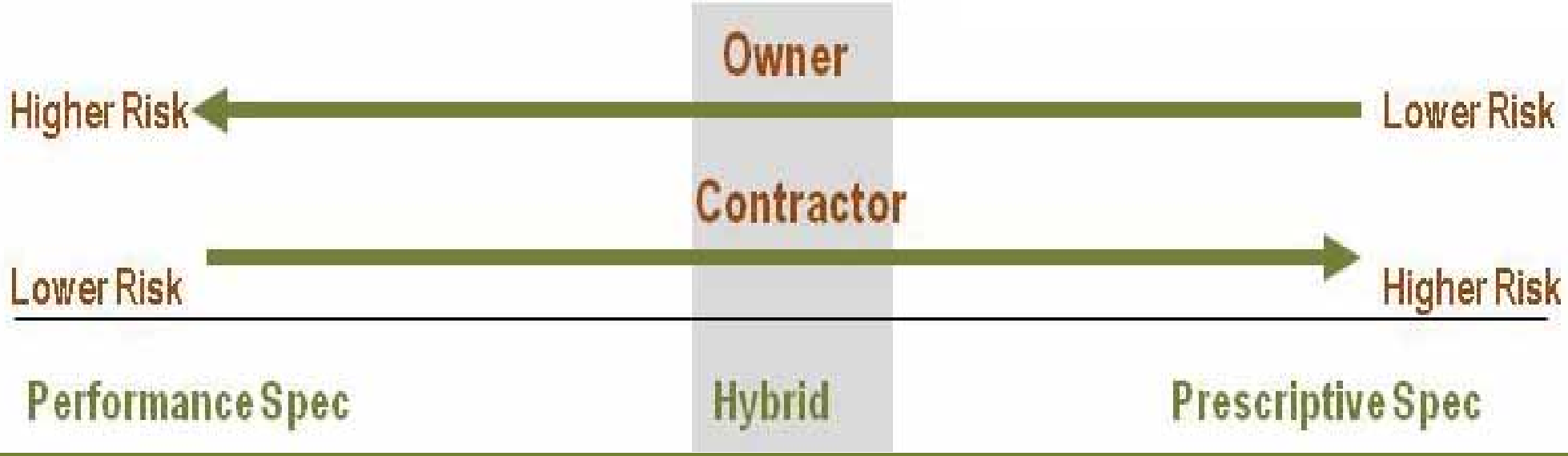
Participants

- **Expert Advisors:** Jon Boknecht, Vic Oblas, Ken Johnsen, Steve Goldblatt, Dick Sandaas, Rodney Eng, JC Brummond
- **SDOT Leadership:** Goran Sparrman, Jon Layzer, Bob Chandler, Mike Terrell, John Buswell
- **Council Central Staff:** Ben Noble
- **City Contracts:** Aleanna Kondelis
- **City Attorney's Office:** Helaine Honig
- **Project Team:** David Warner, Santosh Kuruvilla, Jenifer Young, Erin Taylor, Alan Keizur, Bret Stephen, Brian Holloway, Jennifer Wieland

Key Discussion Items

- Sharing ownership and risk
- Ability to address access and stakeholder needs
- Focus on 3-legged stools:
  - Quality, cost, schedule
  - Owner, contractor, designer



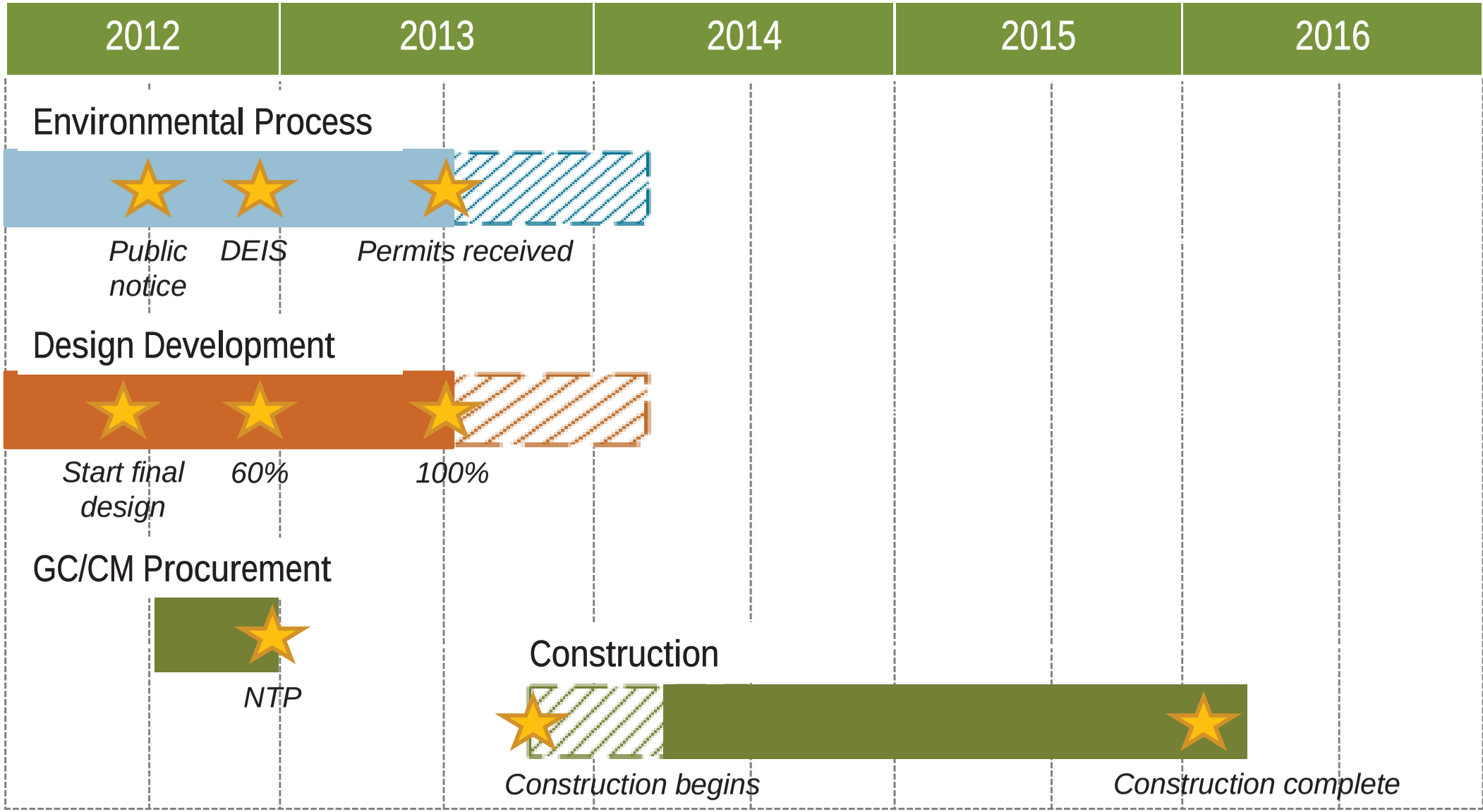


Key Discussion Items

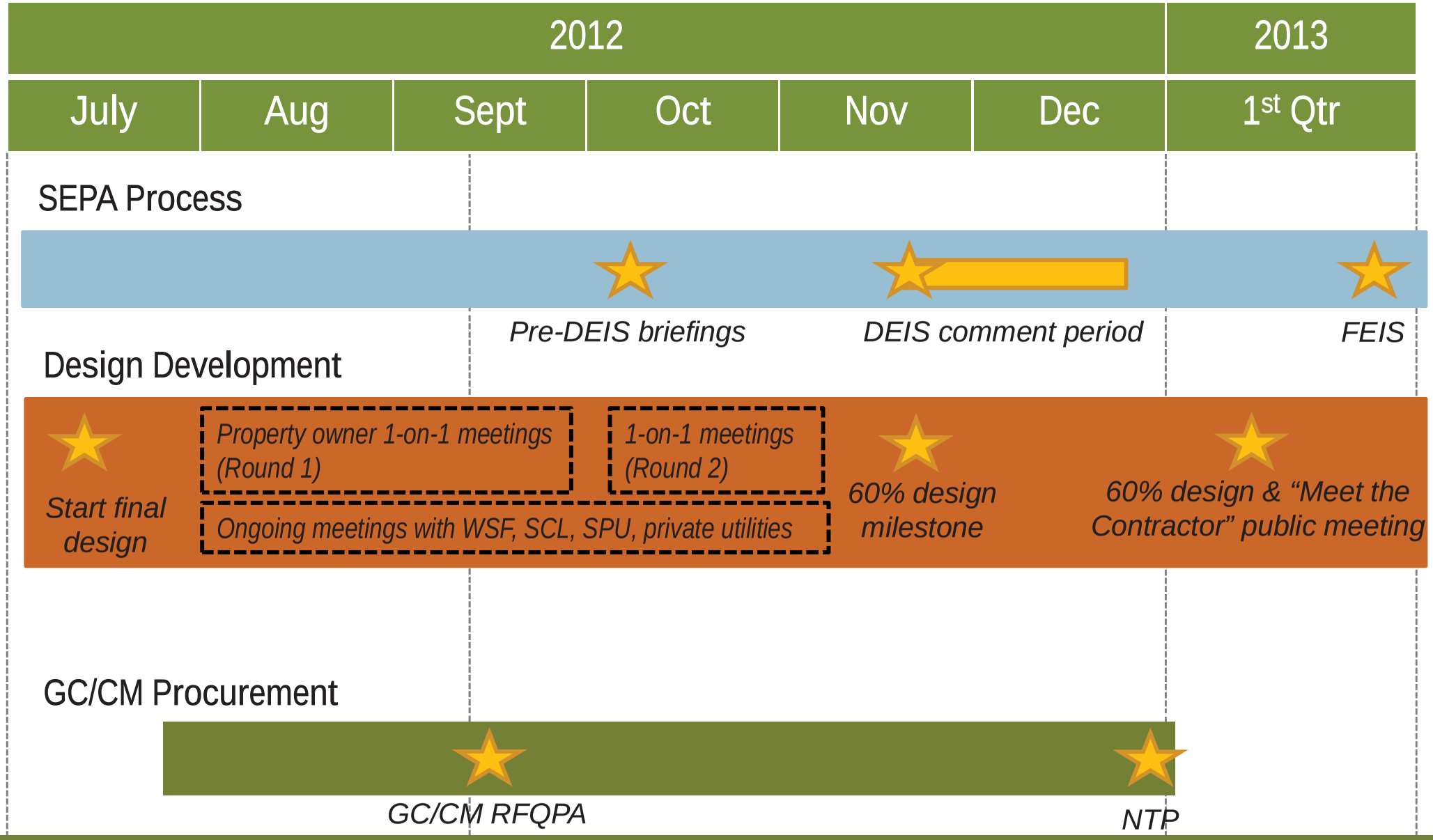
- Soil stabilization is a specialized subcontractor activity
  - Approach to ensuring performance must balance risk
  - Consider ability to manage changing conditions and unknowns in the field
- Early involvement of a contractor provides a partner in minimizing project risk and addressing issues in design

Schedule Update and Next Steps

Project Schedule and Milestones



Project Schedule: 6 Month Look Ahead



Upcoming Summer Events and Outreach

- Light penetrating surfaces study on Pier 62/63
- Kiosk installation
- Habitat/fish migration studies
- Habitat education
- Fairs, festivals, events
- Briefings
- Collaboration with Waterfront Seattle activities

What questions do you have about how you will be engaged moving forward?

Stakeholder Once Around

What additional feedback do you have for the project teams?

Public Comment

Next Steps and Action Items

Upcoming Topics

- Lessons learned from Central Waterfront Transmission Line Relocation Project
- Tolling of the bored tunnel; street design impacts
- Combined waterfront three-year schedule
- Specifics on seawall construction planning
- Combined Sewer Overflows
- Mitigation and environmental documents
- *Others?*

Actions and Contact Information

Elliott Bay Seawall Project

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Email: seawall@seattle.gov

waterfront Seattle.org

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Email: info@waterfrontseattle.org