



Construction | Consulting | Goods & Services

Upcoming Signature Projects Presentations



Presentations: Upcoming Signature Projects

Waterfront Seattle Program – Contracting Opportunities City of Seattle.
Storage Tunnel and Pump Station construction projects and Upcoming Design contract for the Ballard Conveyance portion of the program.
Key Arena Project
WSDOT Megaprojects
Washington State Convention Center
Port of Seattle - Restroom Renovations Enabling Phase 2
Sound Transit Downtown Redmond Link Extension (DRLE) Project
King County Upcoming projects

**Waterfront Seattle Program –
Contracting Opportunities City of Seattle**



WATERFRONT INFORMATION SESSION

Jessica Murphy, City of Seattle
Construction Program Manager, Office of the Waterfront and Civic Projects
October 8, 2018



AGENDA



- Waterfront Seattle overview
 - WMBE utilization to date
 - Projects
 - Schedule
- Upcoming contracting opportunities
 - Main Corridor construction, RFP in 2018
- Q&A

WMBE UTILIZATION DATA



PROGRAM WMBE UTILIZATION TO DATE	
WBE	13.7%
MBE	4.7%
WMBE goal	17.5%
WMBE ACTUAL UTILIZATION	18.5%

2018 WMBE UTILIZATION (thru 6/30/18)	
WBE	16.4%
MBE	2.7%
WMBE goal	17.5%
WMBE ACTUAL UTILIZATION	19.0%

WATERFRONT SEATTLE PROGRAM

SEAWALL PROJECT

SR 99 TUNNEL PROJECT

SEATTLE MULTIMODAL TERMINAL AT COLMAN DOCK PROJECT

PARTNER PROJECTS

Project construction dates are tentative and subject to change

ELLIOTT BAY

OLYMPIC SCULPTURE PARK

Waterfront Seattle (2018+)

Pier 62 Rebuild (2017-2019)

BELLTOWN

Seattle Multimodal Terminal at Colman Dock Project (2017-2023)

PIKE PLACE MARKET

Seawall Project (2013-2017)

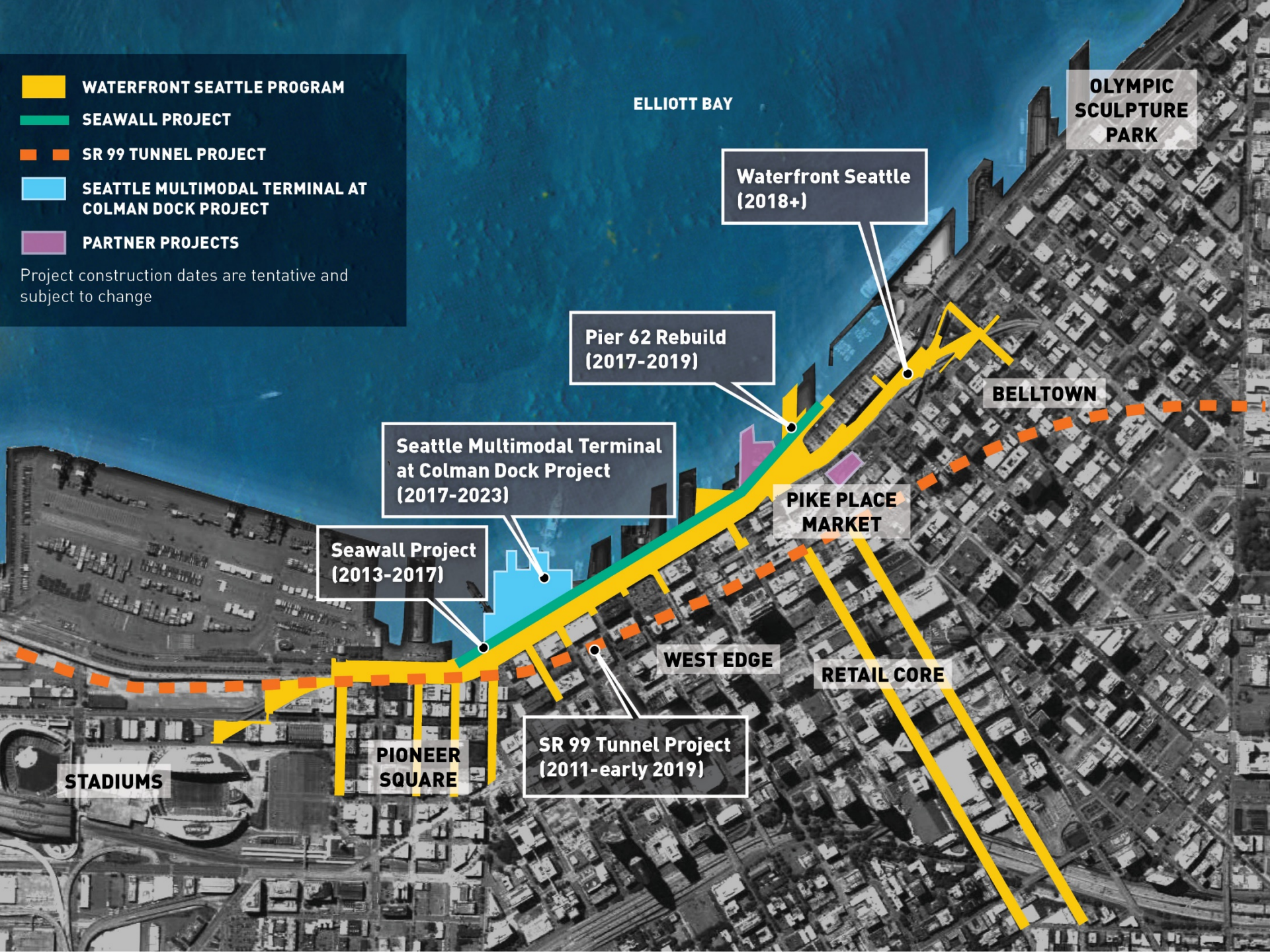
WEST EDGE

RETAIL CORE

SR 99 Tunnel Project (2011-early 2019)

PIONEER SQUARE

STADIUMS



WATERFRONT SEATTLE PROGRAM AREA



○ Waterfront Seattle Program Area

○ Related Projects

1 Railroad Way

2 Alaskan Way + Elliott Way

3 Pioneer Square Streets

4 Columbia Street

5 Marion Street
Pedestrian Bridge

6 Seawall

7 Seneca Street

8 Promenade

9 Union Street Elevator and Stairs

10 Waterfront Park

11 Protected bike lane

12 Seattle Aquarium expansion

13 Overlook Walk

14 Pike Pine Renaissance: Act One

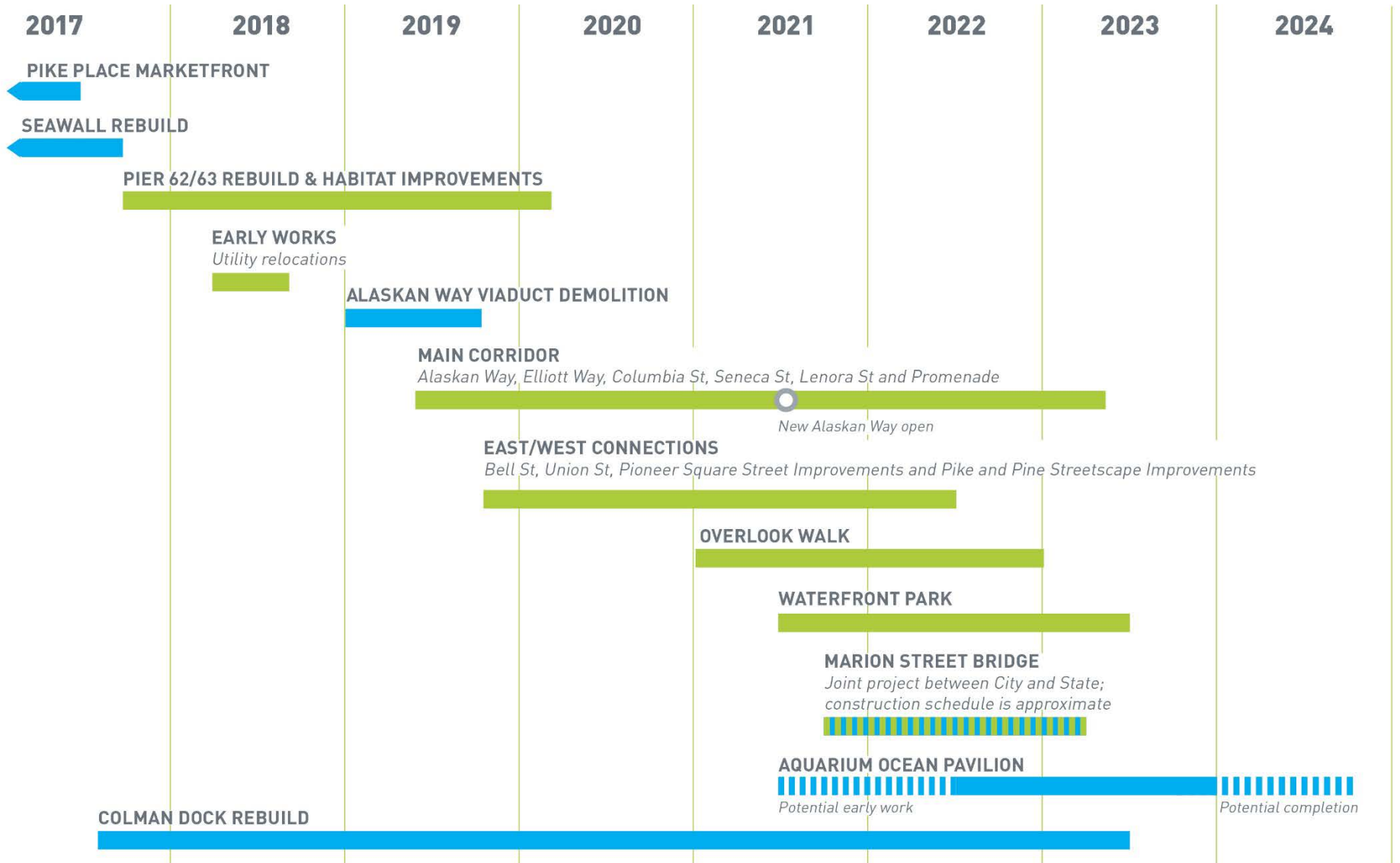
15 Pier 62 Rebuild

16 Pike Place Market's
MarketFront

17 Bell Street Park Extension

CONSTRUCTION SCHEDULE

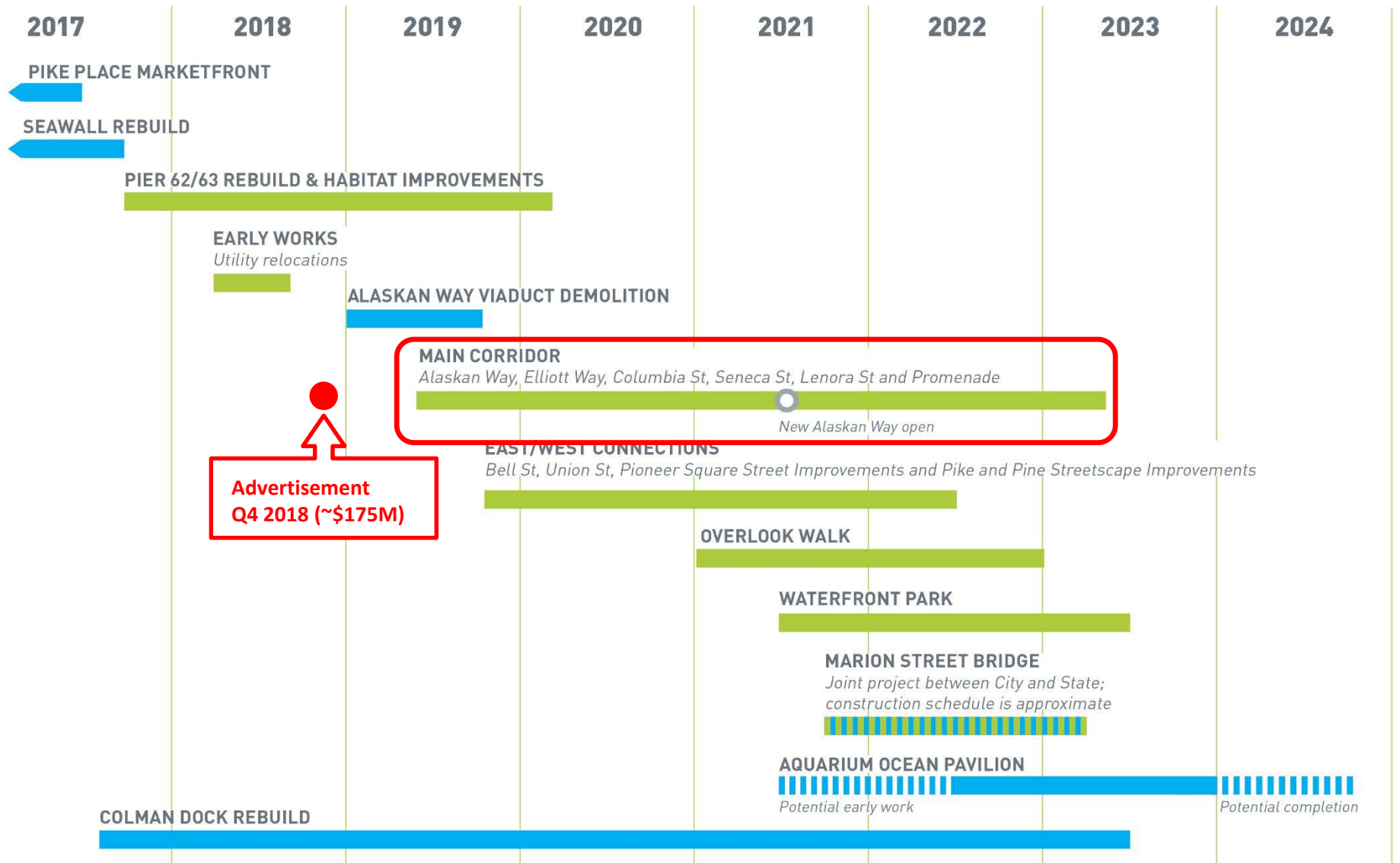
Waterfront Seattle Related projects



NOTE: Construction dates subject to change pending: A. completion dates of new SR-99 tunnel and demolition of the Alaskan Way Viaduct; B. ongoing construction sequencing evaluation and assumptions for all projects

CONSTRUCTION SCHEDULE

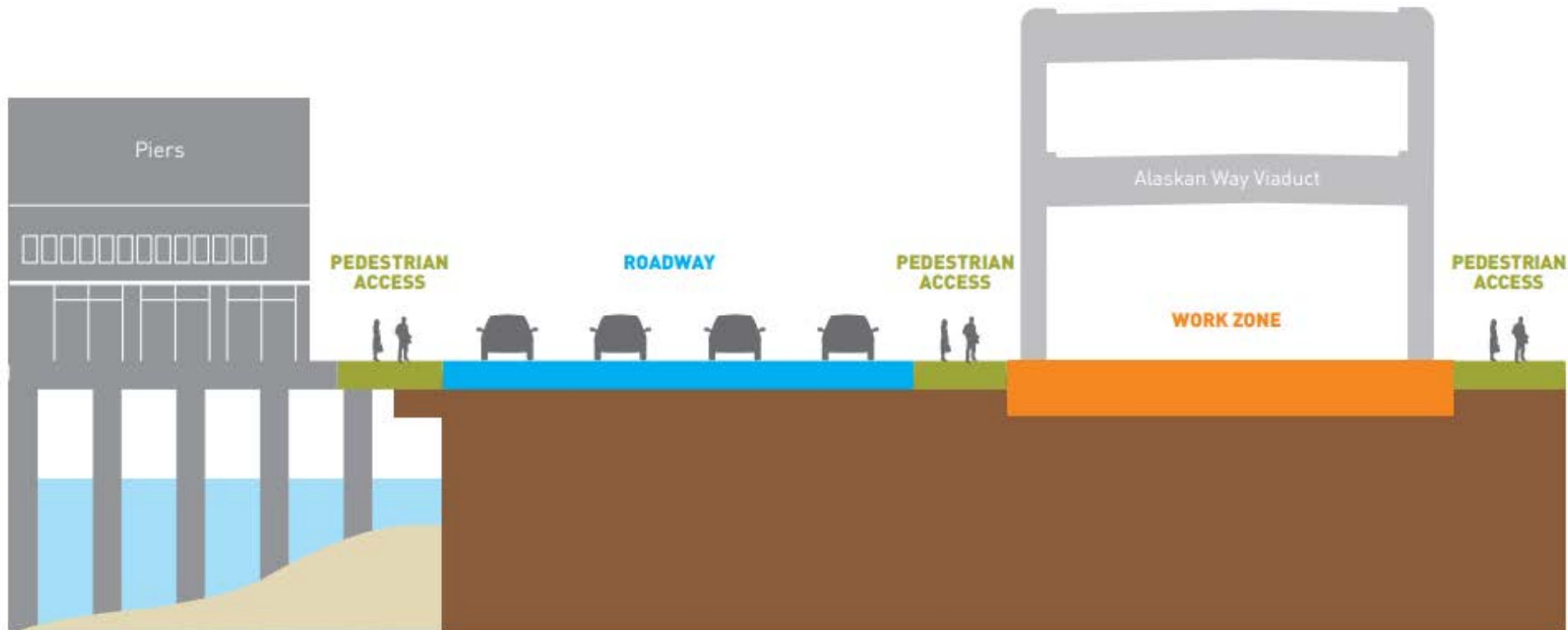
Waterfront Seattle Related projects



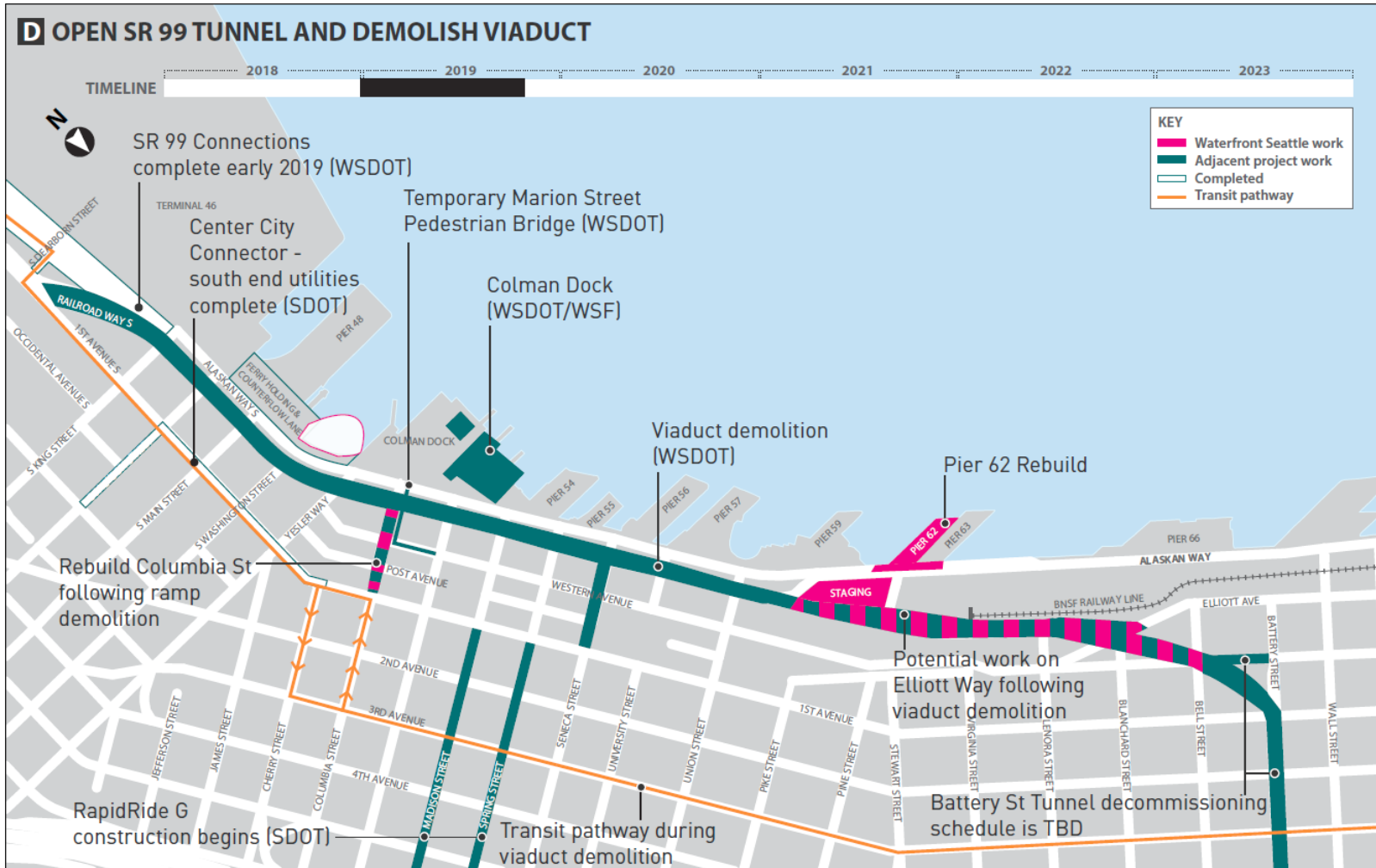
**Advertisement
Q4 2018 (~\$175M)**

NOTE: Construction dates subject to change pending: A. completion dates of new SR-99 tunnel and demolition of the Alaskan Way Viaduct; B. ongoing construction sequencing evaluation and assumptions for all projects

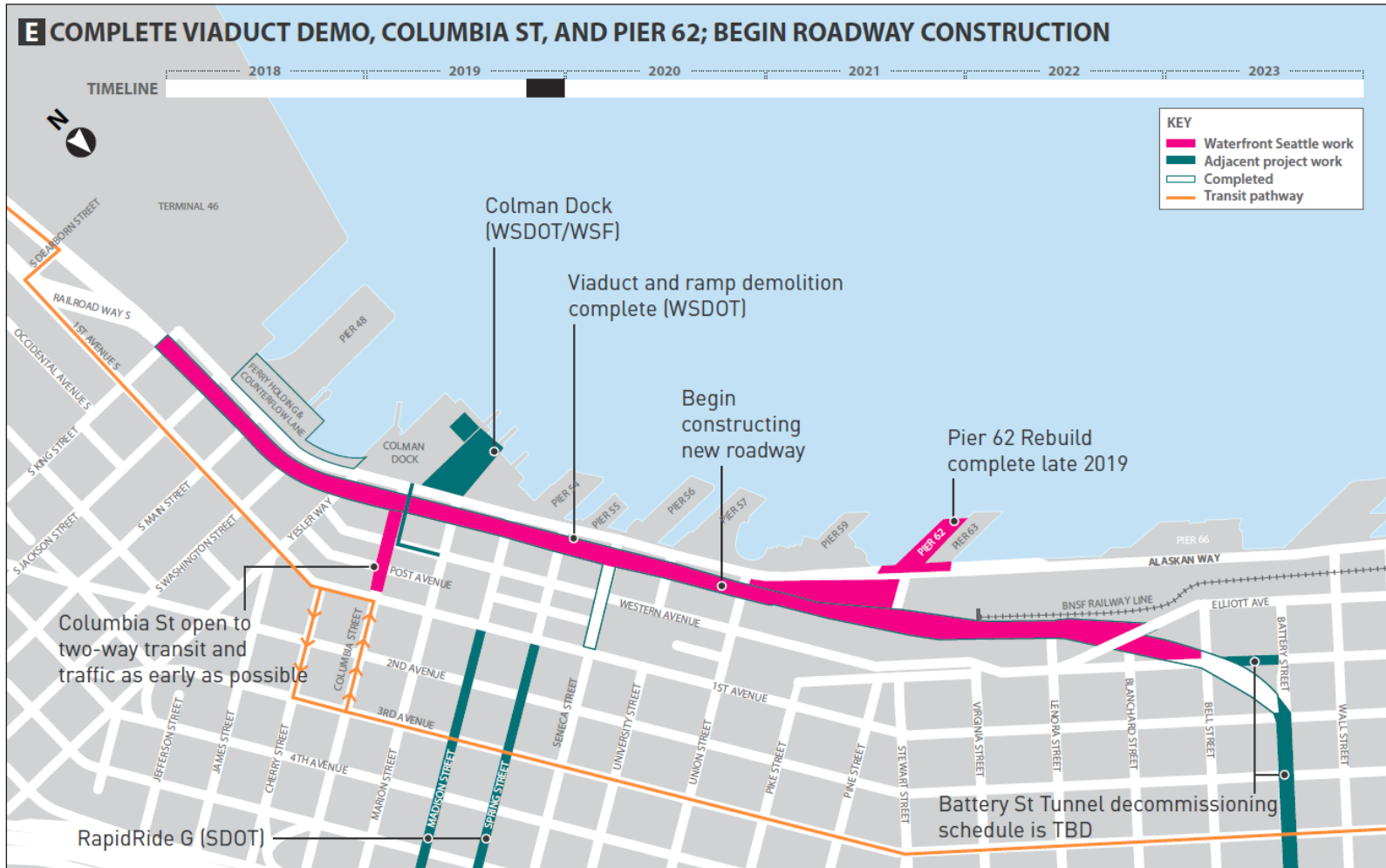
SAMPLE CROSS-SECTION DURING CONSTRUCTION



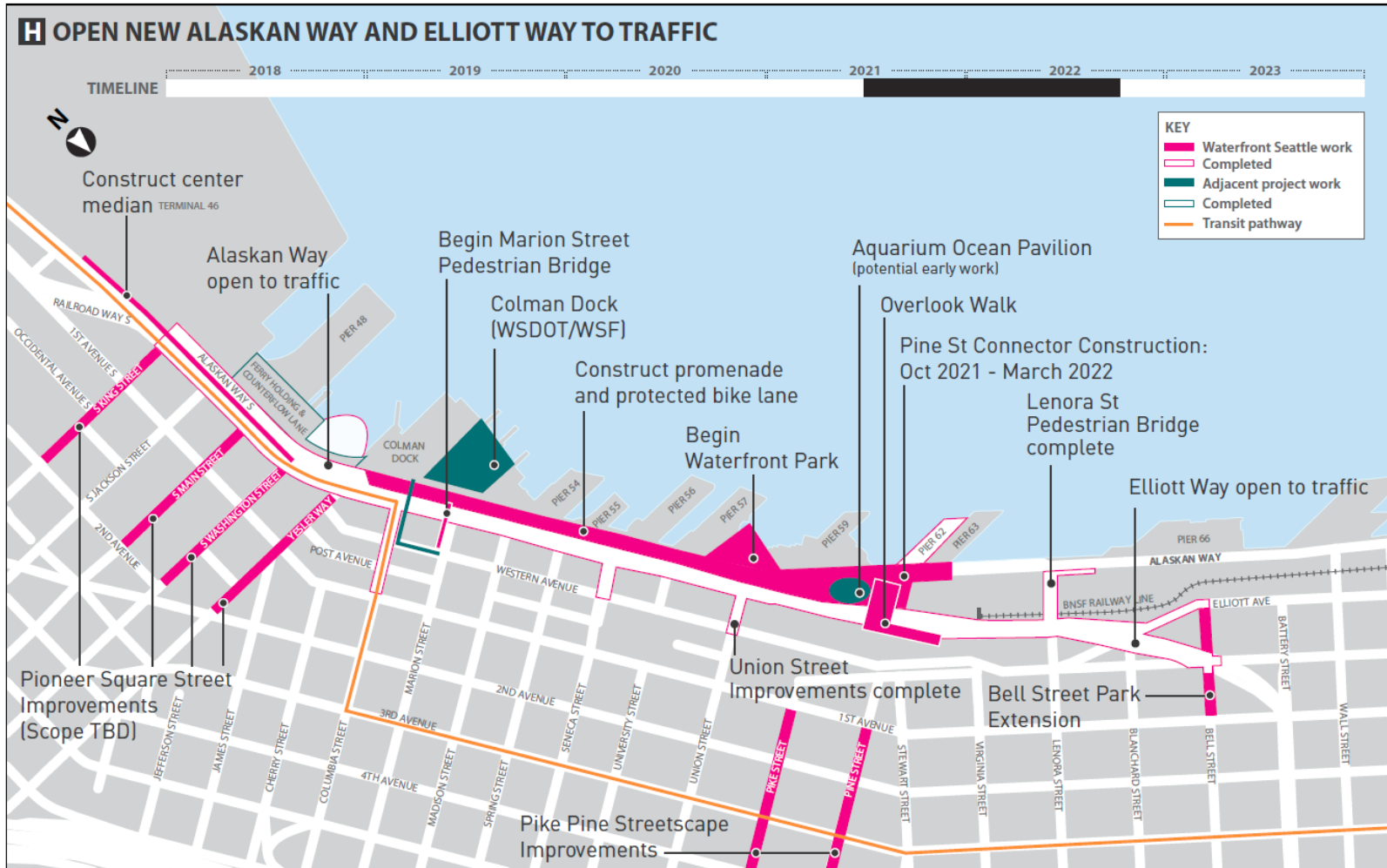
MAIN CORRIDOR – SEQUENCE



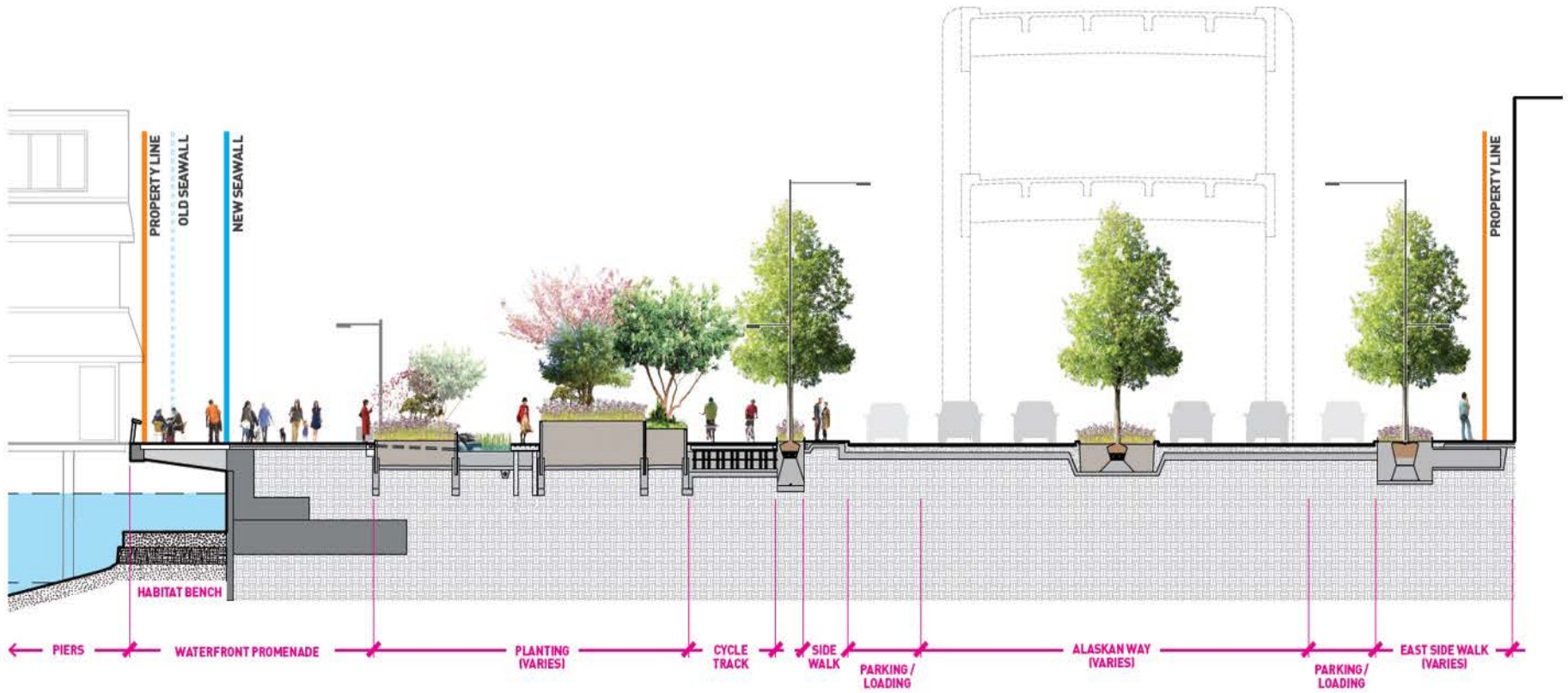
MAIN CORRIDOR – SEQUENCE



MAIN CORRIDOR – SEQUENCE



MAIN CORRIDOR – TYPICAL SEGMENT



TYPICAL INTERSECTION



MAIN CORRIDOR – KEY INFO



- October/November – Advertisement
- 8-12 week bidding period
- NTP Spring 2019
- Key milestones
- Engineer's Estimate: \$175-200M
- Construction timeline 2019-2023

MAIN CORRIDOR – (A) TYPICAL ROADWAY PROJECT



Typical

- Utilities (wet and dry), earthwork
- Paving, signals, lighting

Atypical

- Interdependencies
 - Utilities, foundations, other projects
- 115 kV underground power relocation
- Bridge/walls near BNSF railroad
- High quality aesthetic finishes/materials

ALASKAN WAY AND PROTECTED BIKE LANE



PROMENADE



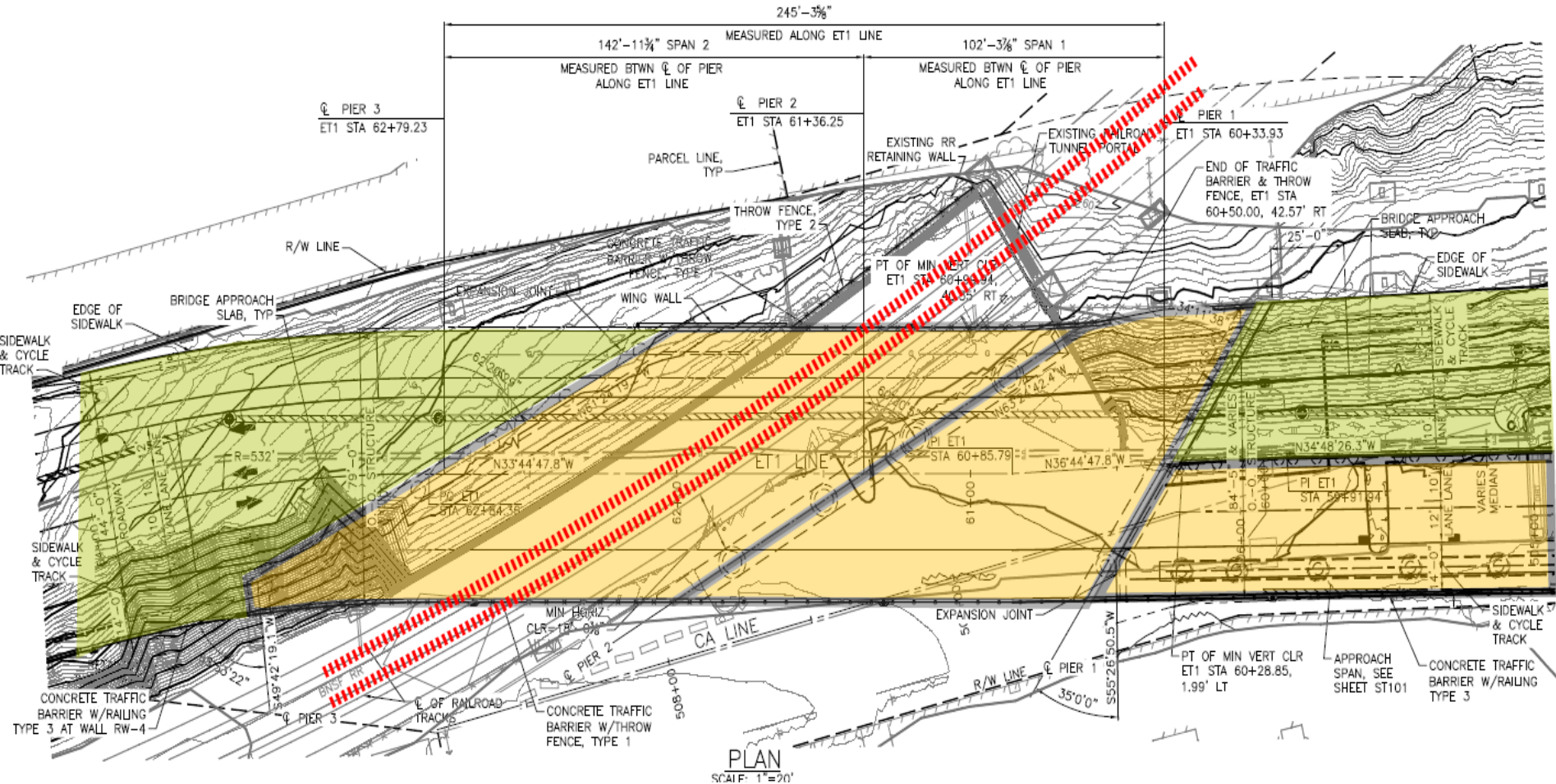
PROMENADE



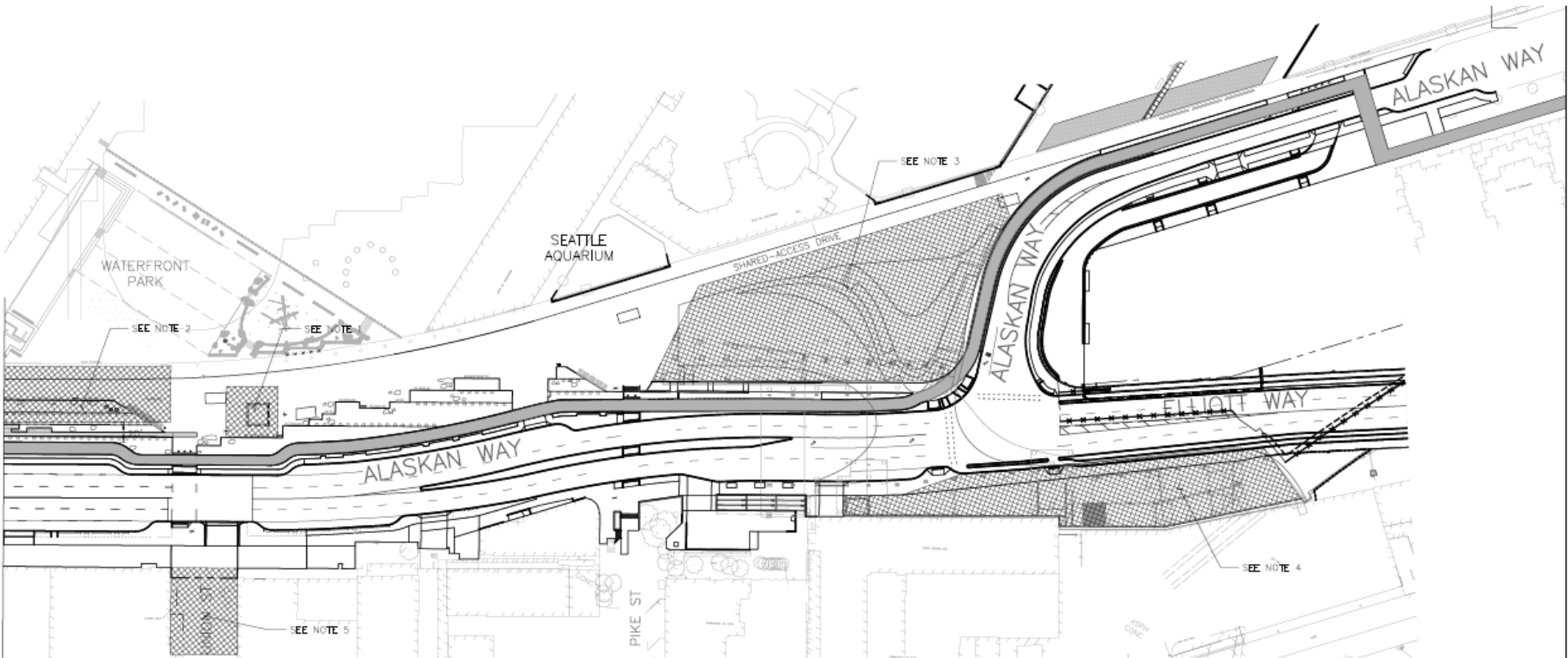
MAIN CORRIDOR – BRIDGE/WALLS NEAR BNSF TRACKS



MAIN CORRIDOR – BRIDGE/WALLS NEAR BNSF TRACKS





MAIN CORRIDOR – INTERDEPENDENCIES



NOTES

1. UNION KIOSK STAGING AREA. PROVIDE ACCESS TO THE STAGING AREA FOR DELIVERY OF EQUIPMENT AND MATERIALS.
2. WATERFRONT PARK STAGING AREA.
3. OVERLOOK WALK PROMENADE STAGING AREA.
4. OVERLOOK WALK ELLIOTT WAY STAGING AREA.
5. UNION PEDESTRIAN BRIDGE STAGING AREA.

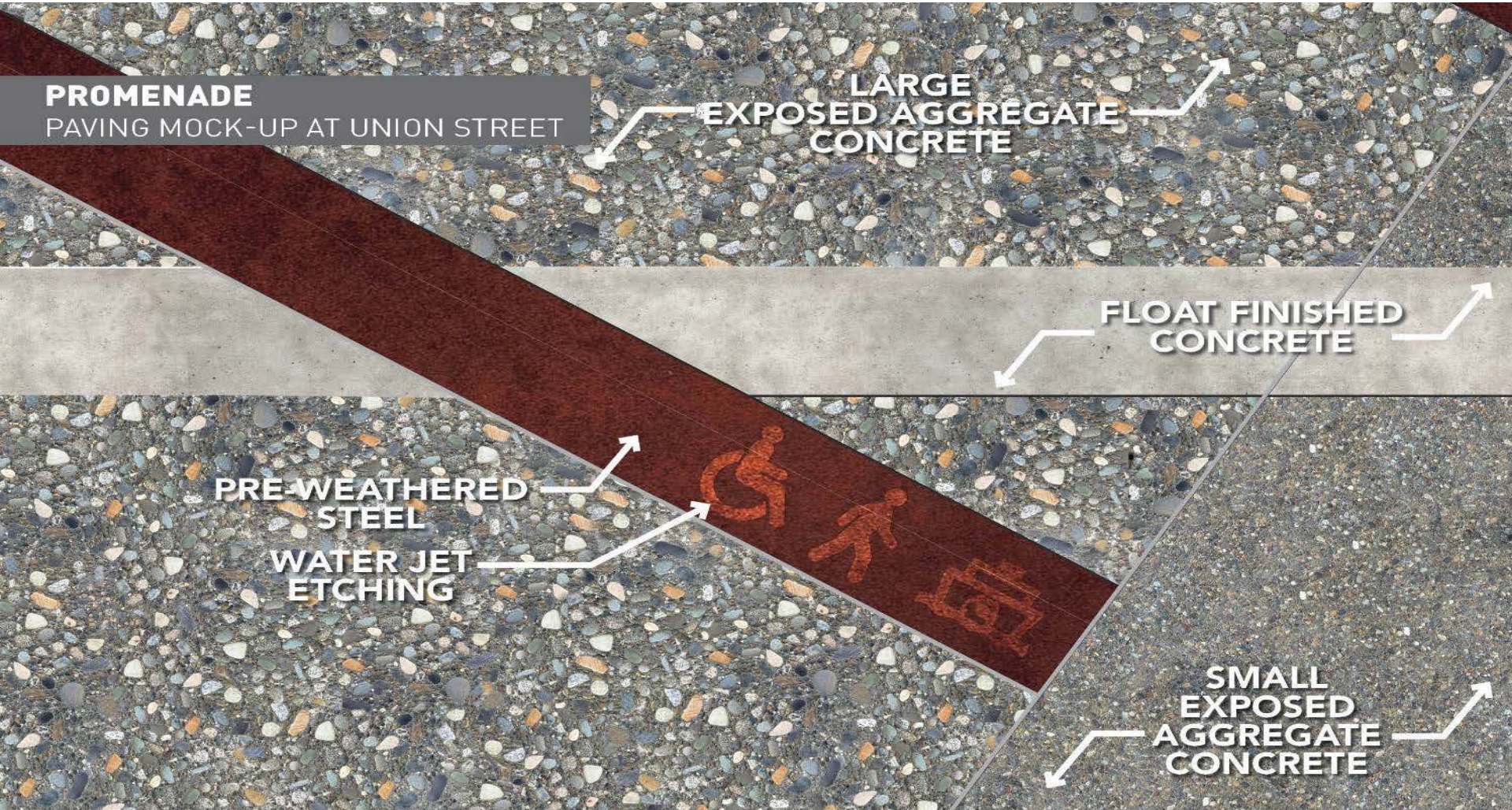
LEGEND:

-  STAGING RESERVED FOR OTHER CONTRACTORS
-  CYCLE TRACK

OVERLOOK WALK



FINISHES – PROMENADE PAVING



PROMENADE
PAVING MOCK-UP AT UNION STREET

**LARGE
EXPOSED AGGREGATE
CONCRETE**

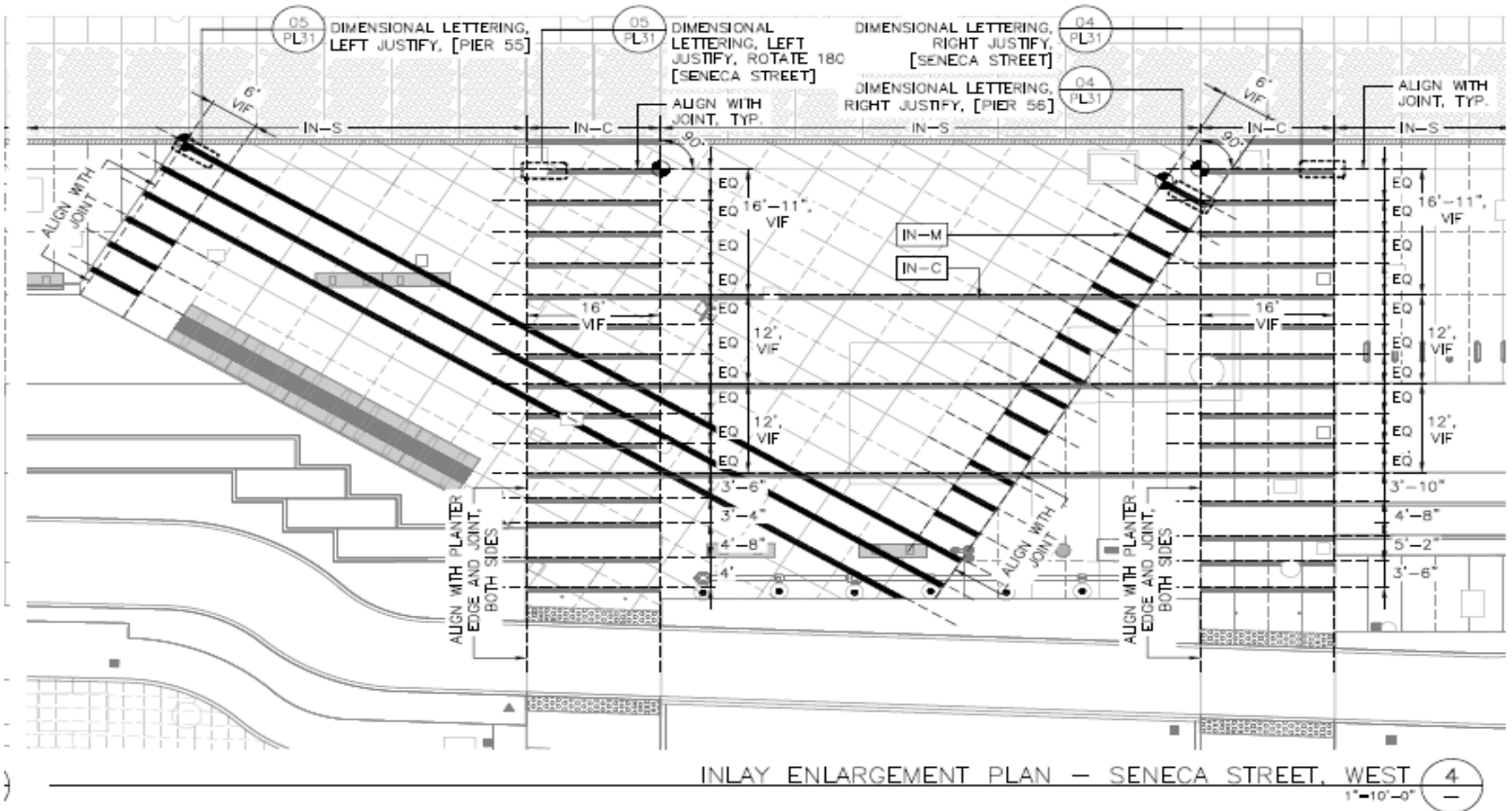
**FLOAT FINISHED
CONCRETE**

**PRE-WEATHERED
STEEL**

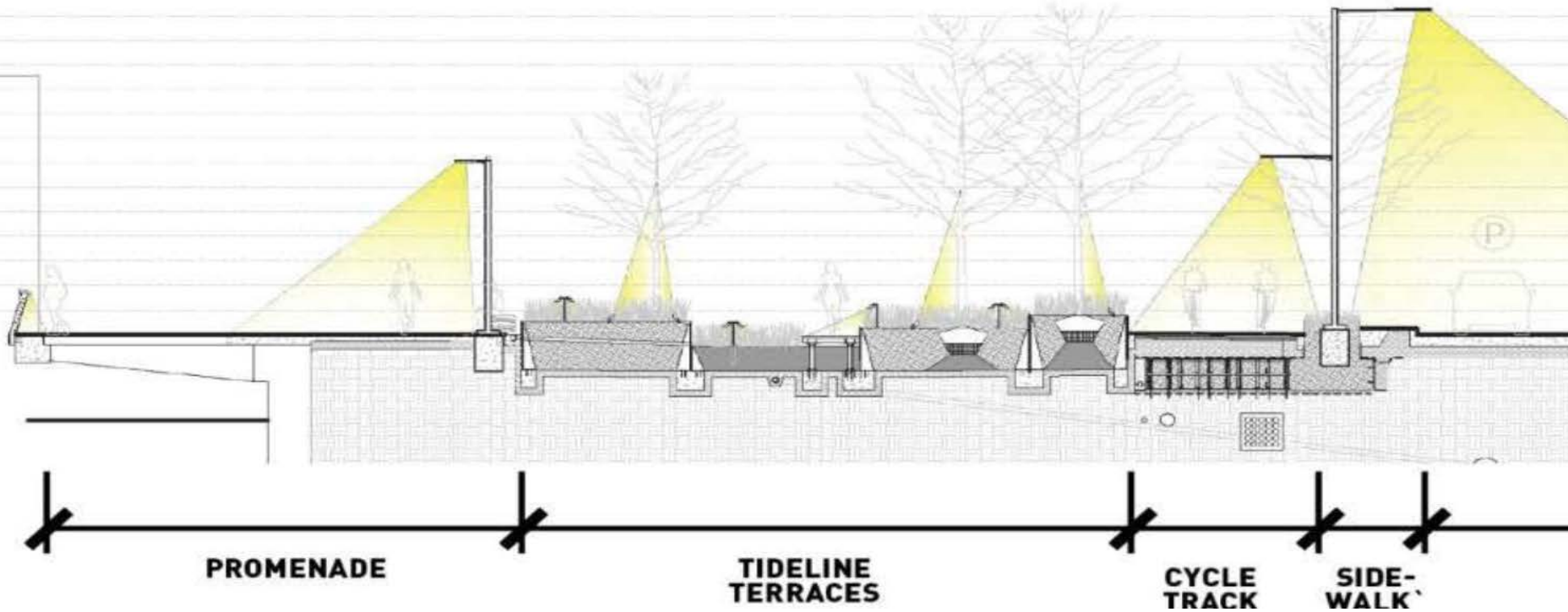
**WATER JET
ETCHING**

**SMALL
EXPOSED
AGGREGATE
CONCRETE**

FINISHES – DETAILS



LIGHTING



PLANTS



SPRING



Ceanothus gloriosus



Iris douglasiana



Narcissa thalia



Camassia leichtlinii
'sempierna'



Mahonia repens



Ceanothus gloriosus
'Heart's Desire'



Brodiaea 'Queen Fabiola'



Camassia leichtlinii
'Sacajawea'

SUMMER



Achillea millefolium 'Lilac Beauty'



Helictotrichon sempivirens



Hakonechloa macra



Carex densa



Achillea millefolium
'Moonshine'



Calamagrostis acutifolia
'Karl Foerster'



Geum 'Totally Tangerine'



Potentilla fruticosa 'Happy Face White'

FALL



Aster tataricus 'Jindai'



Acer circinatum 'Pacific Purple'



Andropogon gerardii 'Red October'



Aster dumosus 'Lady in Blue'



Molinia caerulea ssp
Arundinacea 'Skyracer'

WINTER



Liriope spicata



Carex comans



Cornus sericea 'Kelsey'



Symphoricarpos x
chenaultii



Pinus contorta



Hakonechloa macra



Pinus contorta var. *latifolia*



Arctostaphylos x 'John Dourley'

MAIN CORRIDOR – APPROXIMATE SCOPE VALUE



Typical elements

- ~ \$12M in concrete paving (Div 5)
- ~ \$20M in structures (Div 6)
- ~ \$11M in wet utilities (Div 7)

Atypical

- ~ \$9M in landscaping/edging
- ~ \$4M in site furniture
- ~ \$6M in colored concrete



QUESTIONS?

info@waterfrontseattle.org

206.499.8040

waterfrontseattle.org

PRIORITY HIRE FOR PUBLIC AGENCIES



Based on Project Hours	Past Performance on City Projects	Voluntary Efforts Rainier Beach Community Center	Priority Hire Projects
Seattle Residents	5%	2%	12%
Economically Distressed ZIP Codes	12%	3%	25%
Apprentice Utilization	13%	12%	15%
Women	5%	6%	11%
People of Color	25%	24%	27%

Sources: Past Performance on City Projects is based on hours from a sample of projects from 2009-2013. Sources are the Worker Profile in City of Seattle Construction Projects report and City of Seattle – Construction Workforce Diversity Report. Percentages listed under Rainier Beach Community Center reflect UCLA Labor Center analysis of employee data, 2014. Percentages listed in the Priority Hire Project column reflect data through August 2017.

PRIORITY HIRE BY PROJECT



CITY OF SEATTLE – PRIORITY HIRE PROJECT OVERVIEW

July 2018

For more information on projects covered by Priority Hire, go to www.seattle.gov/priorityhire.

Project	Prime Contractor	Est. Project Completion	Total Hours	Priority Hire ZIP Codes		Women		People of Color		Apprentice Utilization		Preferred Entry
				Requirement	Performance	Goal	Performance	Goal	Performance	Req.	Performance	20% Req.
Blue Ridge Conduit 2	KC Equipment	14 out of 14 months	18,217.9	App – 7% Jour – 22%	App – 8.0% Jour – 43.8%	App – 19% Jour – 8%	App – 0.0% Jour – 9.5%	App – 39% Jour – 26%	App – 100% Jour – 43.9%	15%	16.4%	50.0%
Cedar Falls Administration Building	Pease & Sons	14 out of 14 months	41,776.4	App – 6% Jour – 15%	App – 13.4% Jour – 15.4%	App – 9% Jour – 5%	App – 12.7% Jour – 7.7%	App – 26% Jour – 23%	App – 45.3 Jour – 21.6%	18%	23.1%	3.2%
Denny Network	Shimmick	28 out of 32 months	262,851.0	App – 5% Jour – 19%	App – 6.0% Jour – 23.6%	App – 6% Jour – 4%	App – 18.9% Jour – 9.7%	App – 50% Jour – 21%	App – 57.1% Jour – 20.8%	15%	13.6%	2.0%
Denny Substation	Walsh	28 out of 29 months	407,560.7	App – 4% Jour – 12%	App – 6.4% Jour – 20.8%	App – 4% Jour – 3%	App – 25.1% Jour – 5.1%	App – 19% Jour – 16%	App – 44.1% Jour – 27.0%	15%	14.8%	4.4%
Pier 62-63	Pacific Pile & Marine	7 out of 25 months	11,679.8	App – 12% Jour – 19%	App – 12.1% Jour – 14.4%	App – 31% Jour – 10%	App – 33.1% Jour – 2.3%	App – 47% Jour – 24%	App – 76.8% Jour – 16.8%	17%	27.5%	4.5%
¹ Seattle Asian Art Museum	BNBuilders	4 out of 14 months	12,714.0	App – 4% Jour – 12%	App – 4% Jour – 10%	App – 9% Jour – 5%	App – 0% Jour – 2%	App – 25% Jour – 20%	App – 6% Jour – 23%	15%	16%	0.0%
Waterfront Seattle 13.8kV	MidMountain	4 out of 6 months	7,280.5	App – 7% Jour – 22%	App – 4.5% Jour – 17.4%	App – 19% Jour – 8%	App – 47.5% Jour – 9.2%	App – 39% Jour – 26%	App – 38.9% Jour – 30.9%	15%	13.6%	0.0%
23 rd Avenue S.	Jansen	2 out of 10 months	6,529.3	App – 12% Jour – 19%	App – 7.6% Jour – 17.5%	App – 31% Jour – 10%	App – 26.7% Jour – 10.0%	App – 47% AA – 23% Jour – 24% AA – 8%	App – 36.3% AA – 19.8% Jour – 29.3% AA – 3.6%	17%	21.1%	0.0%

¹ Performance through April 2018

SDOT WMBE UTILIZATION



Seattle Department of Transportation WMBE Utilization - Consultant and Purchasing

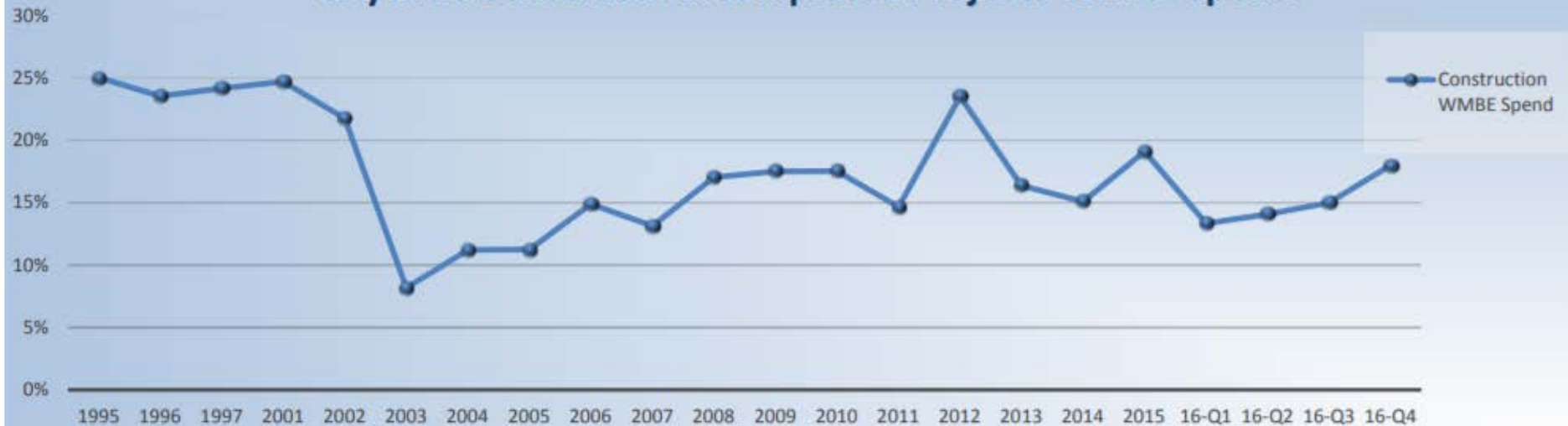


2017 Goals	
Purchasing =	12%
Consultant =	20%

CITYWIDE WMBE CONSTRUCTION UTILIZATION



Citywide Construction Completed Projects WMBE Spend



Storage Tunnel and Pump Station construction projects Contracting Opportunities City of Seattle

2018 Regional Contracting Forum

Ship Canal Water Quality Project

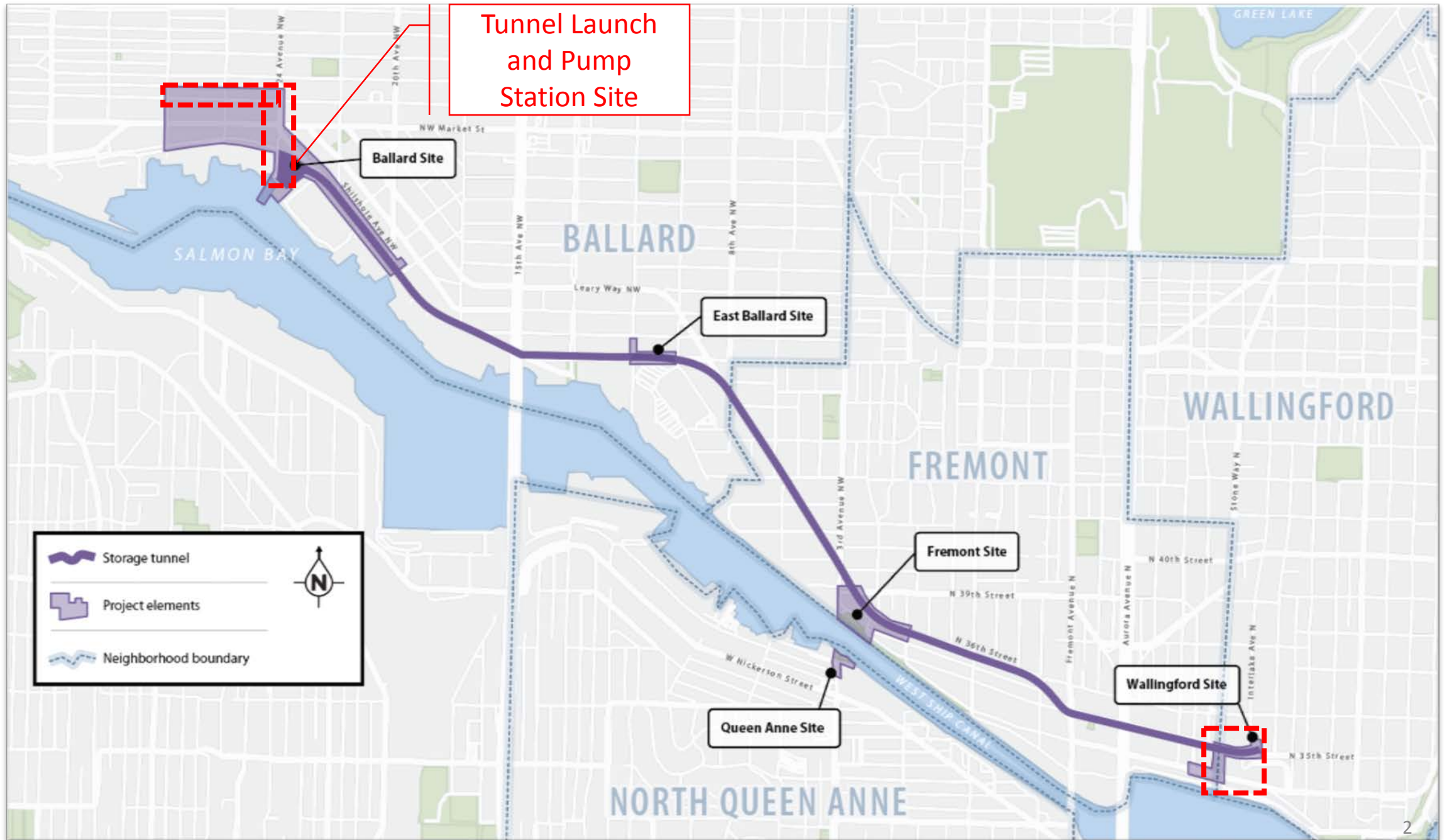
Regional Contracting Forum

10/9/2018

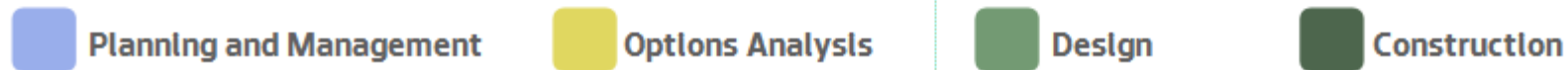
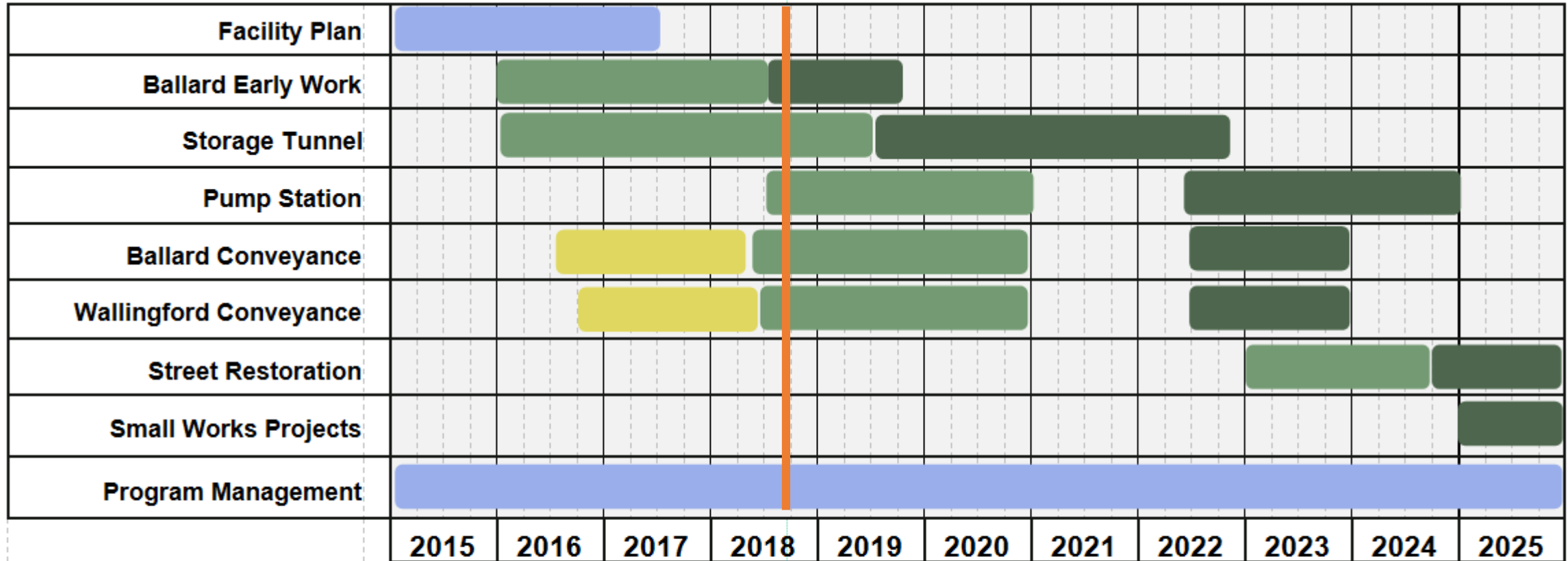
Stephanie Secord, Ship Canal Water Quality Tunnel Project Manager

Cynthia Blazina, Construction Manager





Schedule and Budget



Ballard Conveyance Consultant Procurement

- Phased services – design contract; amendment for construction & closeout phases
- Microtunnel construction
- RFP late Q4 2019
- Current Engrs Est \$16.5M



Ship Canal Water Quality Project

Questions?



Key Arena Project

2018 Regional Contracting Forum

Seattle Center Arena

Be Better Together – Come partner with Skanska Hunt!

Project Information

Skanska Hunt has been chosen to provide CM/GC services for the Seattle Center Arena Project, SCA. The SCA will serve as the new basketball, hockey, and event arena for the City of Seattle at the Seattle Center. The project consists of a new stadium with underground parking, approximately 750,000sf.

Contact Maiya Loucks for access to bid documents.

The project has a 18% participation goal for firms holding certification as Women Owned Business and Minority Owned Businesses. Firms must hold current certification by the State (OMWBE) or be self-identified through the City of Seattle's Online Business Directory.



Location

305 Harrison St
Seattle, WA 98109

Seattle Center Arena

Be Better Together – Come partner with Skanska Hunt!

The following scopes are currently out for bid and due November 15th, 2018 at 11am

- BP04.20 Masonry
- BP05.00 Misc. Metals/Metal Subroof
- BP05.70 Ornamental Metals
- BP06.40 Architectural Woodwork
- BP07.10 Waterproofing,
- BP07.41 Metal Roof and Wall Panels
- BP07.42 Roofing
- BP07.81 Fireproofing & Intumescent Paint
- BP08.10 Doors, Frames & Hardware
- BP08.33 Overhead Doors
- BP08.40 Interior Glass & Glazing
- BP08.44 Curtain Wall / Exterior Glass & Glazing
- BP09.00 Fabric Wrapped Wall Panels
- BP09.20 Drywall & Framing / Insulation / FRP – Zones D, A, E – East Side
- BP 09.21 Drywall & Framing / Insulation / FRP – Zones C, B, F – West Side
- BP09.30 Ceramic Tile
- BP09.50 Suspended Ceiling Systems
- BP09.60 Carpet and Resilient Flooring
- BP09.67 Resinous Flooring
- BP09.80 Acoustical Treatment
- BP09.90 Painting
- BP10.00 Bird Control
- BP10.00 Fire extinguisher Cabinets / Wall and Door Protection / Entrance Mats
- BP10.00 Folding Panel Partitions
- BP10.00 Metal Lockers / Mobile Storage Shelving
- BP10.14 Wayfinding Signage
- BP10.21 Toilet Partitions & Accessories
- BP11.00 Facility Fall Protection
- BP11.12 Parking Control
- BP11.13 Loading Dock Equipment S&I
- BP11.40 Food Service Equipment / Residential Equipment / Ice Machines
- BP12.00 Telescoping Stands / Portable Platforms
- BP12.20 Window Treatment
- BP12.60 Arena Seats
- BP13.18 Ice Floor S&I
- BP14.20 Conveying Systems
- BP21.00 Fire Protection
- BP31.12 Arborist
- BP32.00 Site Furnishings
- BP32.90 Landscaping & Irrigation

Contact

Maiya Loucks – maiya.loucks@skanska.com, (206) 858-3083

SCA Subcontractor Portal

<https://www.buildingconnected.com/>

WSDOT Megaprojects

2018 Regional Contracting Forum

WSDOT Puget Sound Megaprograms and SR 520 Program Overview

2018 Regional Contracting Forum

McCaw Hall, 321 Mercer St, Seattle, WA 98109

October 9, 2018

Denise Cieri, P.E.

SR 520 Program Administrator, WSDOT

Presentation outline

- WSDOT Puget Sound Megaprograms overview
- SR 520 Program updates: a look-ahead to the “Rest of the West” in Seattle
- Questions and answers

WSDOT Megaprograms

Complex projects move the region forward

- WSDOT is building several large-scale Puget Sound “Megaprograms” to help meet the transportation needs of our rapidly growing region.
- These projects include the following:
 - I-405 Corridor Program
 - Puget Sound Gateway Program
 - Alaskan Way Viaduct Replacement Program
 - SR 520 Program



Julie Meredith, P.E.
*Deputy Assistant Secretary,
Megaprograms
WSDOT*



Stay in touch:

- **Email:** MeredJL@wsdot.wa.gov
- **Phone:** 206-770-3568

I-405 Corridor Program

- A project to improve highway lanes, local streets, transit, and bicycle and pedestrian experiences along I-405 in Washington State.
- Current active projects include:
 - I-405/SR 167 Direct Connector Project
 - Renton to Bellevue Widening and Express Toll Lanes Project
 - Northeast 132rd Interchange Project



Kim Henry
*Program Administrator
I-405 Corridor Program*

To learn more:

- **Web:** www.wsdot.wa.gov/Projects/I405/
- **Email:** smileyc@consultant.wsdot.wa.gov
- **Phone:** 425-456-8624



Puget Sound Gateway Program

- One program to deliver both the SR 167 and SR 509 projects.
- The program is projected to be completed in two stages, over approximately 16 years.

To learn more:

- **Web:** www.wsdot.wa.gov/Projects/Gateway

SR 167 contact:

- **Email:** FuchsS@wsdot.wa.gov
- **Phone:** 360-357-2623

SR 509 contact:

- **Email:** ChepelaA@wsdot.wa.gov
- **Phone:** 206-805-2978



Craig Stone
Program Administrator
Puget Sound Gateway Program



Alaskan Way Viaduct Replacement Program

- A program to replace the SR 99 Alaskan Way Viaduct in Seattle.
- Remaining program elements include the following:
 - Tunnel Opening
 - Alaskan Way Viaduct Removal
 - Battery Street Tunnel Decommissioning
 - Surface Street Connections



Brian Nielsen
Program Administrator
Alaskan Way Viaduct Replacement Program

To learn more:

- **Web:** www.wsdot.wa.gov/projects/viaduct
- **Email:** viaduct@wsdot.wa.gov
- **Phone:** 1-888-AWV-LINE (298-5463)



SR 520 Bridge Replacement and HOV Program

- A program to improve safety and mobility by replacing the SR 520 corridor from Redmond, across Lake Washington, and to I-5. Remaining “Rest of the West” projects in Seattle include the following:
 - Montlake Project
 - SR 520/I-5 Express Lanes Connection Project
 - Montlake Cut Bascule Bridge Project
 - Portage Bay Bridge and Roanoke Lid Project

To learn more:

- **Web:** www.wsdot.wa.gov/Projects/SR520Bridge
- **Email:** sr520bridge@wsdot.wa.gov
- **Phone:** 206-770-3500

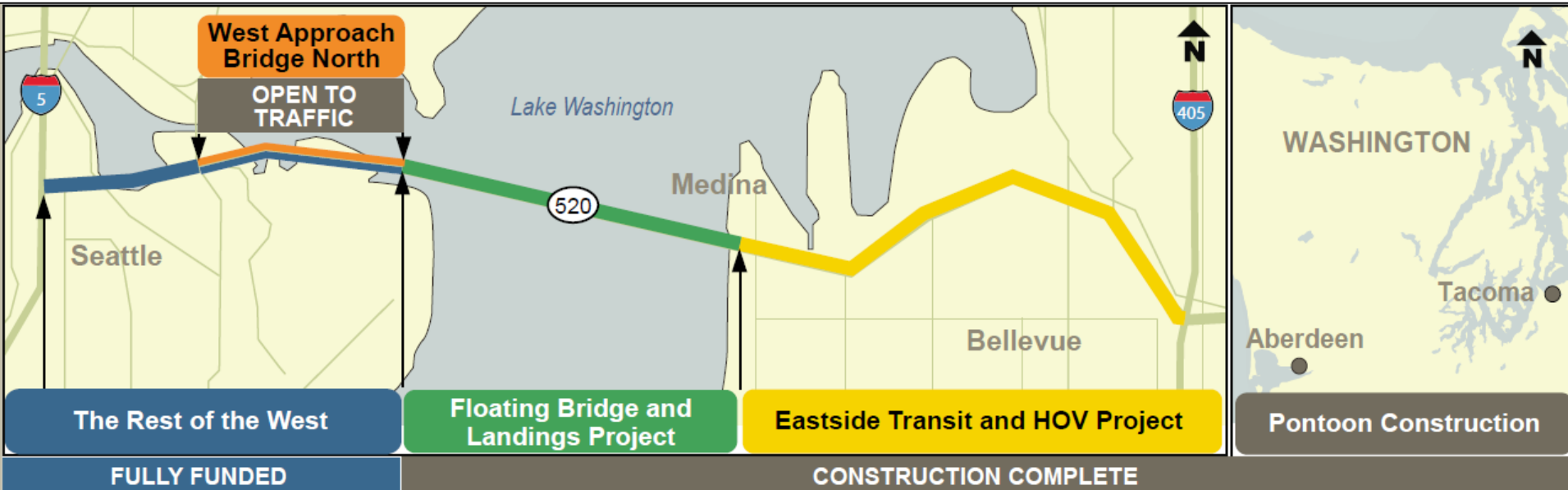


Denise Cieri
Program Administrator
SR 520 Program



SR 520 Program overview and timeline

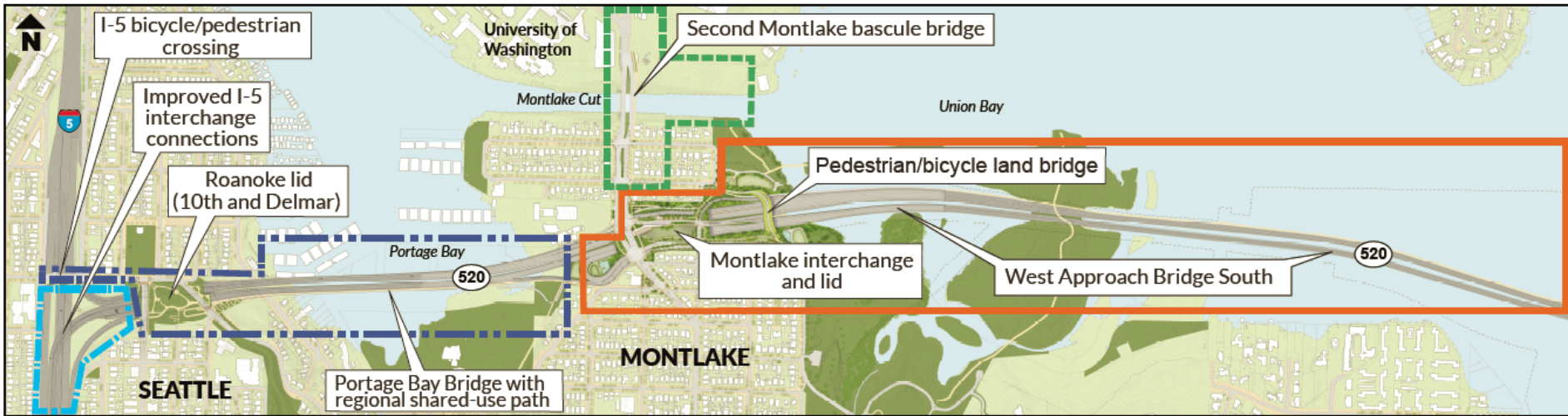
Program map



Program schedule

- Eastside Transit and HOV Project: Opened 2014
- Pontoon Construction Project (Aberdeen): Completed 2015
- New floating bridge: Opened April 2016
- West Approach Bridge North: Opened August 2017
- The Rest of the West: Construction to begin in early 2019

Building the “Rest of the West” in Seattle



Montlake Project

Construction starting in early 2019
Estimated duration: 4-5 years

SR 520/I-5 Express Lanes Connection Project

Construction estimated start: 2020
Estimated duration: 3 years

Montlake Cut Bascule Bridge Project

WSDOT will begin additional coordination with community stakeholders and agency partners regarding project scope

Portage Bay Bridge and Roanoke Lid Project

Construction estimated start: 2023
Estimated duration: 6 years

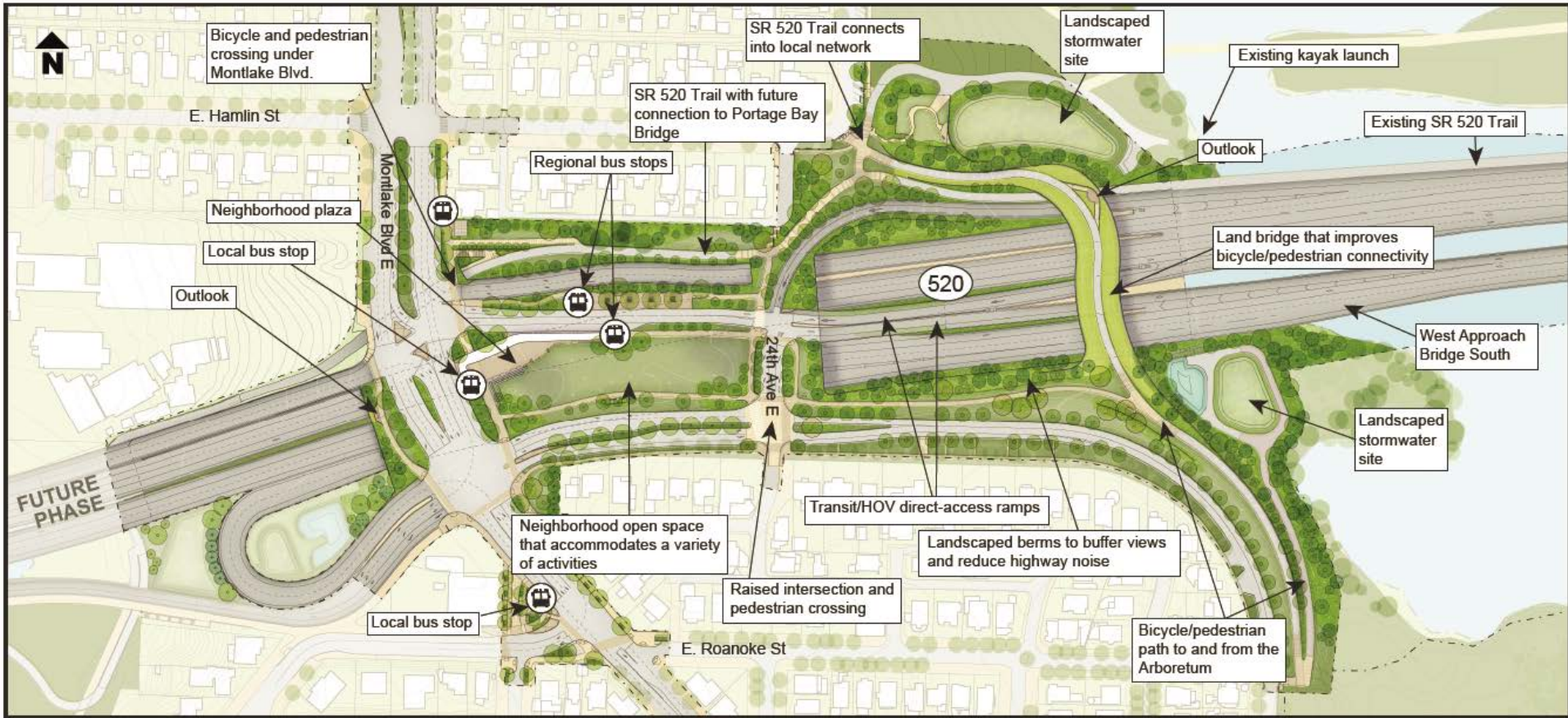


Note: Project dates are estimated and subject to change.

The “Rest of the West” is fully funded at \$1.6 billion by the 2015 Connecting Washington transportation package.

Montlake Project: Major elements

Shown at completion of the Montlake Project



- The Montlake Project is estimated to cost approximately \$400 million.
- The project includes a Community Workforce Agreement signed by 17 building and construction trades unions.
- The project also includes a 20 percent apprenticeship requirement.

Key Montlake Project next steps

- **October 10, 2018:** Announce Apparent Best Value design-build contractor for the Montlake Project
- **December 2018:** Issue Notice to Proceed to contractor
- **Early 2019:** Host pre-construction open house with contractor and begin construction of Montlake Project
- **Ongoing:** City of Seattle and other partner agency coordination, outreach to key stakeholders and the community



An artist's rendering of the new Montlake lid, upon completion.



Aerial photo of the SR 520 westbound off-ramps to the Montlake area, looking north. Photo taken: 2017.

Celebrating 100 and Growing!

- To date, the SR 520 Program has utilized more than **100 MSVWBE and DBE firms** in its design and construction work.
- This totals more than **\$200 million** to date in work by these firms!



Key:

- **MSVWBE:** *Minority, Small, Veteran, and Women-Owned Business Enterprises*
- **DBE:** *Disadvantaged Business Enterprises*

Meet our 100+ small and diverse firms!

1 Alliance Geomatics | AAA Contractors Inc | ALLEGIANCE STAFFING | Amaya Electric Corporation | American Construction & Coatings LLC | American Pride Corporation | Ashford Electric | B & B TRUCKING | BC Traffic LLC | Belarde Construction | Berry Consulting, LLC | Birch Equipment Rental and Sales Inc | CADD Tech | Caetano Transport Corp | CHANDLER CONSTRUCTION INC | Civiltech Engineering Inc. | Clarity Engineering | Confluence Environmental Company | Cortinas Painting & Restoration Inc. | DBE Electric Inc | DHD Trucking LLC | Dirt & Aggregate Interchange, Inc. | DOUG JONES CONCRETE CONTRACTOR INC | eComply | Entitlement & Engineering Solutions | Envirolssues Inc. | Fair Building Technology LLC | FARROW CONCRETE SPECIALTIES INC | Floyd Snider Inc. | Gibson Door & Millwork Inc | Global Geophysics | Grady Excavating Inc | Greylock Consulting LLC | Hainline & Associates, Inc. | Hughes Group LLC | INNOVEX Environmental | J & J Guzman Trucking, Inc. | Jill Marie Irwin | JIT Manufacturing Inc. | JMR Trucking, Inc. | John Wayne Construction Co Inc | JP Francis & Associates, Inc. | JW Danks and Associates | KBA, Inc. | KenjiMoto Consulting | KODO CONSTRUCTION INC | KT Contracting Co Inc. | Lin & Associates Inc | Lorache CAD/IT Services LLC | Magnum Crane LLC | Marshbank Construction, Inc. | Mason Coatings | Matia Contractors, Inc. | Meko Construction Inc | METAL BENDERS INC | Michaelis Trucking & Excavating, LLC | Mobile Electrical Distributors Inc | Novito Construction Inc | NVL Laboratories Inc. | O'Brien & Company | O'Brien Trucking LLC | O'Bunco Engineering | OMA Construction Inc. | O'Neill Electric, Howard Jacobs Masonry | O'Neill Service Group LLC | Ott-Sakai & Associates | Pacific | Pacific Communications Consultants, Inc. | Pavement Surface Control | PENNY LEE TRUCKING INC | PLS | Polaris Project Controls, Inc. | Ponglia Trucking Inc | Precision Concrete Cutting & Drilling | PRO USA LLC | PRR INC | PTS Surveying Inc. | R. H. Chen Engineering, Inc. | Rebar International Inc | Rose Super Clean and Parking Management, Inc. | Salinas Sawing & Sealing Inc | SEA TAC SWEEPING SERVICE | Signs Now Washington | SILVER STREAK INC | ST Fabrication Inc. / Jabez Construction | STATON COMPANIES | Steelkorr LLC | Stickles Trucking | TAN TRUCKING LLC | Terra Dynamics Inc | The Bag Lady, Inc. | The Glosten Associates, Inc. | Tiger - West Inc | T-MAX INC | Town & Country Office Cleaning Co | Transcon Company LLC | Twisted Metal LLC | United Professional Caulking & Restoration Inc | VIA Architecture Inc | VINSON BROTHERS CORPORATION | Wayron LLC

WSDOT voluntary MSVWBE goal: 26%

Shaded projects are physically complete. Data below is provided to WSDOT by the project contractors.

CONSTRUCTION										
Project	Disadvantage Business Enterprise (DBE) ¹				Apprentice			Training Hours		
	Percentage		Companies		Date Updated	Hours % (15% Goal)	Date Updated	Goal	Achieved	Date Updated
	Goal	Current	# ²	\$						
Pontoon Construction	6%	6.05%	20	\$27,182,102	12/1/2015	17.7%	9/1/2015	50,000	94,415	7/1/2015
Eastside Transit and HOV	11%	13.45%	36	\$48,900,472	6/1/2015	13.7%	8/15/2016	58,500	38,655 *	6/1/2015
West Connection Bridge	3%	3.83%	5	\$848,460	11/1/2014	18.8%	10/1/2014	1,200	1,200	10/1/2014
Floating Bridge and Landings	7%	7.83%	46	\$59,993,946	9/30/2017	21.4%	10/31/2017	74,600	113,931	12/31/2016
West Approach Bridge North	12%	14.55%	17	\$29,024,761	5/18/2018	20.0%	4/28/2018	15,000	28,051	5/27/2017
<i>DBE Subtotal</i>			77	\$165,949,741						
Project	(M)inority, (S)mall, (V)eteran, (W)oman Business Enterprise (MSVWBE) ³				Apprentice Hours % (15% Goal) ⁴		Training Hours			
	TYPE	M	S	V	W			NOT REQUIRED		
Union Bay Natural Area	M	10%	0.00%	0	\$0	5/5/2018	10.0%	4/30/2018	NOT REQUIRED	
	S	5%	1.90%	2	\$83,288	5/5/2018				
	V	5%	0.00%	0	\$0	5/5/2018				
	W	6%	46.35%	2	\$2,028,859	5/5/2018				
<i>MSVWBE Subtotal (48.25%)</i>			4	\$2,112,148 ^						
CONSTRUCTION TOTAL			80	\$168,061,889						

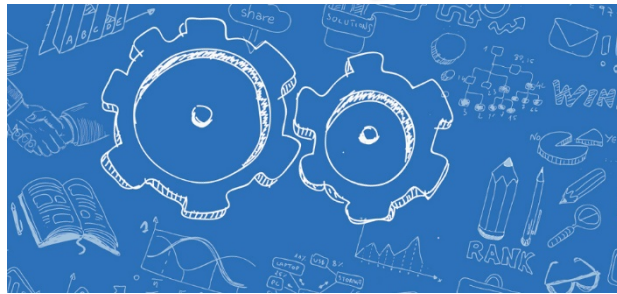
ARCHITECTURAL AND ENGINEERING (A&E)										
Project	DBE ¹				Date Updated	Duration				
	Percentage		Companies							
	Goal	Current	# ²	\$						
Corridor Dev.	N/A	8.05%	2	\$15,112,456	6/30/2014	Feb. 2009 – June 2014 (N/A – No Goal)				
SR 520 Program	9%	16.12%	8	\$8,341,036	6/30/2017	June 2014 – Dec 2016 (9% is a voluntary goal)				
<i>DBE Subtotal</i>			8	\$23,453,492						
Project	MSVWBE ³				Duration					
	TYPE	M	S	V	W					
SR 520 Program	M	10%	5.61%	7	\$1,733,009	6/30/2018	March 2016 - Present			
	S	5%	27.04%	17	\$8,351,275	6/30/2018				
	V	5%	0.01%	1	\$3,147	6/30/2018				
	W	6%	14.84%	6	\$4,582,780	6/30/2018				
<i>MSVWBE Subtotal (27.61%)</i>			18	\$8,526,729 ^						
A&E TOTAL			21	\$31,980,221						

SR 520 PROGRAM TOTAL	101	\$200,042,109		
-----------------------------	------------	----------------------	--	--

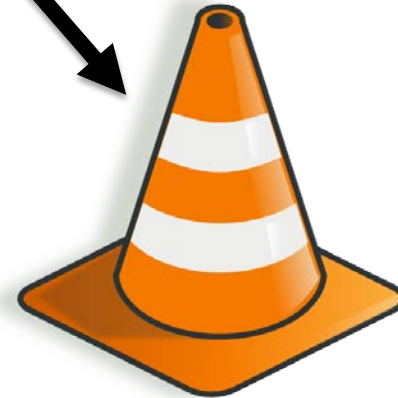
¹ Federally funded projects have DBE goals. Calculations and level of detail are consistent with OEO guidance.

SR 520 Diversity and Inclusion Program

SR 520 PROGRAM



**ARCHITECTURE &
ENGINEERING (A&E)**



CONSTRUCTION

SR 520 Diversity and Inclusion Program

A&E: HDR and the GEC

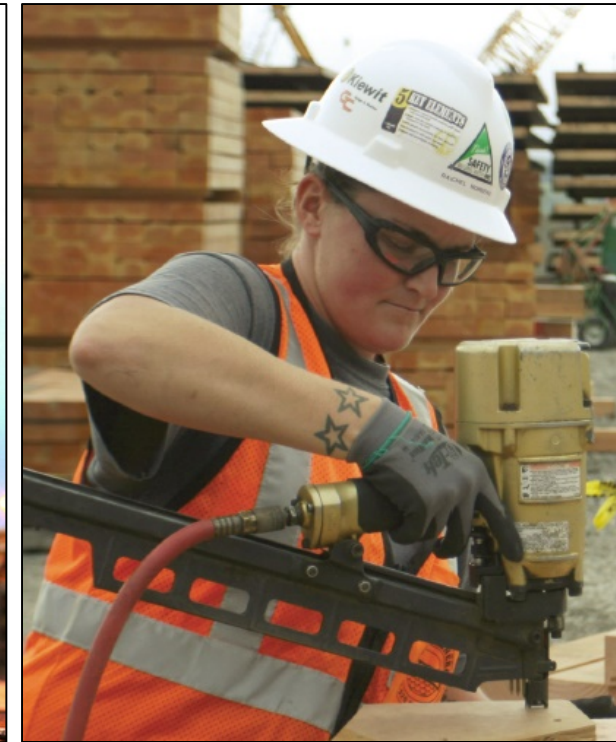
- Ongoing engineering and design work to support the SR 520 Program delivery.
- Continued opportunities for prequalified firms to work on the A&E effort.
- Key points of contact:
 - Ron Paananen, SR 520 Program Engineering Manager / GEC Manager
 - John Villager, SR 520 GEC Business Manager
 - Regina Glenn, SR 520 Diversity and Inclusion Manager



SR 520 Diversity and Inclusion Program Construction: via Prime/Subcontractors

- Distinct SR 520 construction projects, either design-build or design-bid-build.
- Delivered by prime contractors and subcontractors. Formal procurement process.
- Examples: Eastside project, floating bridge project, WABN, Montlake Phase, etc.
- Key point of contact:

Dave Becher, P.E., SR 520 Director of Construction



Upcoming Montlake Project

Shortlisted design-build contractors

- **October 10, 2018:** WSDOT plans to announce Apparent Best Value design-build contractor for the Montlake Project

Atkinson/Traylor JV



Bob Adams

Atkinson Construction

ATKINSON
CONSTRUCTION

TRAYLOR
TRAYLOR BROS., INC.

Graham Contracting LTD



Dan Harringa

Graham Contracting LTD

GRAHAM

Kiewit Manson



Dennis Ahl

Kiewit

 **Kiewit**

MANSON
CONSTRUCTION CO.

Working with our many partners



Questions?



Washington State Convention Center

2018 Regional Contracting Forum

An architectural rendering of the Washington State Convention Center Addition at dusk. The image shows a large, modern building complex with a central courtyard and glass facades. The sky is a mix of purple, orange, and blue. In the background, a cityscape and a body of water are visible. The text 'Washington State Convention Center' is in the top right, 'ADDITION' is in large white letters below it, and 'WSCC Addition' is in large white letters in the bottom left.

Washington State
Convention Center

ADDITION

WSCC Addition

Regional Contracting Forum – October 9, 2018

- Overview of the WSCC Addition Project
- Procurement Update
- Construction Planning
 - Current Work Activities
 - 3 Month Look Ahead at Construction Activities
 - Future - Structural Steel Erection Sequence
- Q&A

Overview of the WSCC Addition Project

Why Build an Addition?

- Turned away more business in the past five years than booked due to lack of space
- Waived or lost because of availability of convention space:
 - 350 events
 - 1.6 million room nights
 - \$2.1 billion in potential economic impact

Source: Visit Seattle

Overview of the WSCC Addition Project: Revenue Benefits Annually

Existing convention center

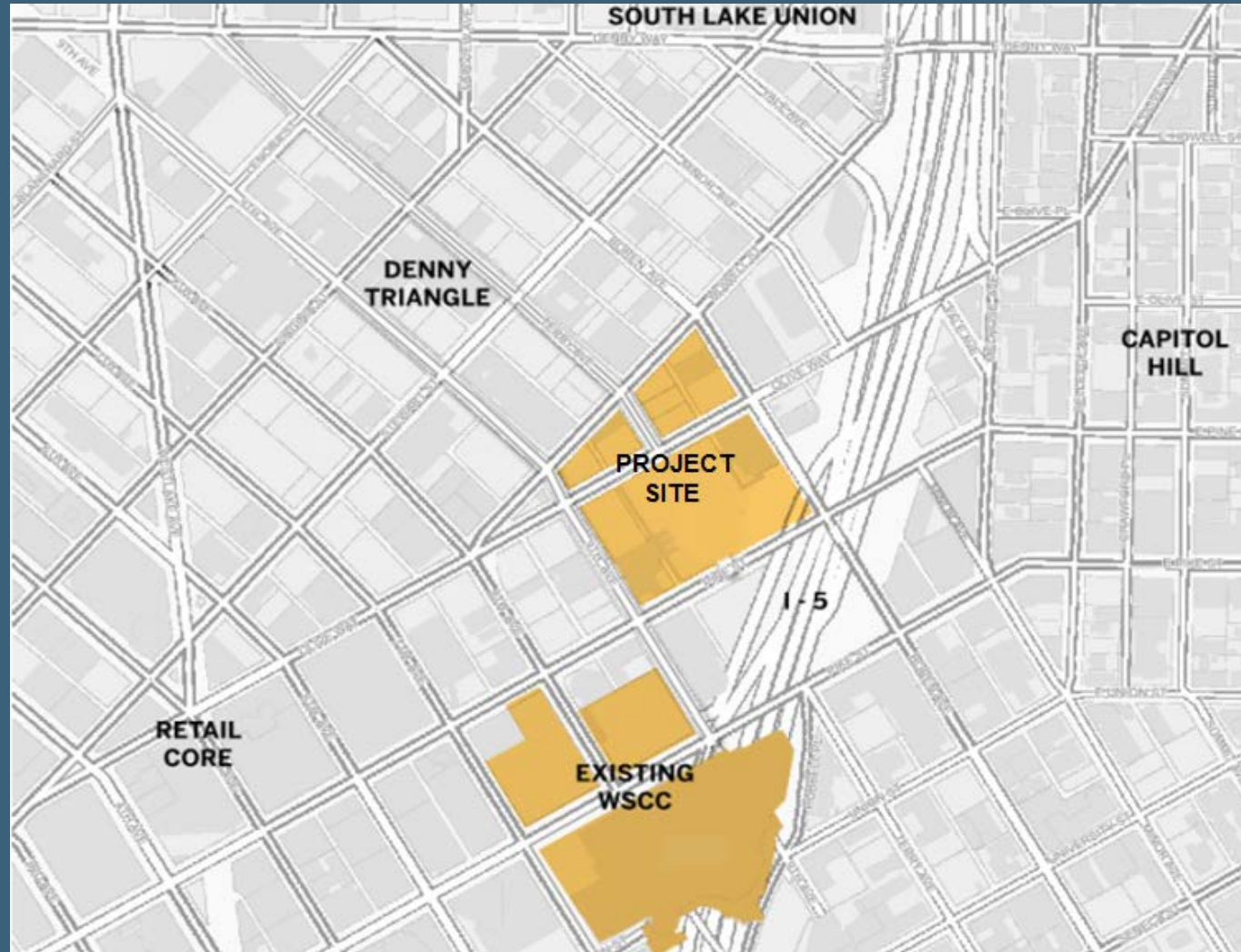
- \$375+ MM out of state
- \$80 MM in state
- 7,000+ direct and indirect jobs

Addition

- \$200 MM out of state
- \$60 MM in state

Overview of the WSCC Addition Project

Neighborhood



Overview of the WSCC Addition Project

Street level at completion



Procurement

WMBE project commitment of \$80 million:

- Construction goal -- \$68 million
- Design/developer goal -- \$12 million

Procurement:

- 1st tier construction package procurement targeting completion October 2018
- 2nd tier and vendor opportunities available. Please visit our table.

Contractor Outreach

WMBE Aspirational Goal 8%

Pre-apprenticeship Programs

Apprenticeship Programs

Priority Hire Program

How we implement:

One on One Meetings

Industry Events

Organization outreach

Partners: Tony Johnson Regina Glenn



Procurement Update

Challenges and Opportunities:
Local/National Market

Strategies

Right sizing bid packages

Prebid – Advertising Project

Structural Steel

Remaining Bid Packages

- Interior Drywall
- Miscellaneous Metal
- Site Concrete/Asphalt
- Site Utilities
- Overhead Doors
- Wood Flooring
- Parking Equipment

Construction Planning: Logistics Approach

Committed to Maintain:

- Pedestrian Connectivity
 - Use covered walkways rather than closed sidewalks whenever possible
- Bike Pathways
 - Maintain current routes

Construction Planning: Logistics Approach

Committed to Maintain:

- On-Street Parking
 - Construction working parking provided in WSCC
- Clearly Marked Traffic Lane Routing
 - Traffic Control Pre-Approved by SDOT
 - Off Duty Police Officers to insure public safety

Construction Planning: Current Work Activities

- Temp Olive Relocation
- Addition – Demolition and Support of Excavation
- Overall Schedule Q3 2018 to Q3 2021



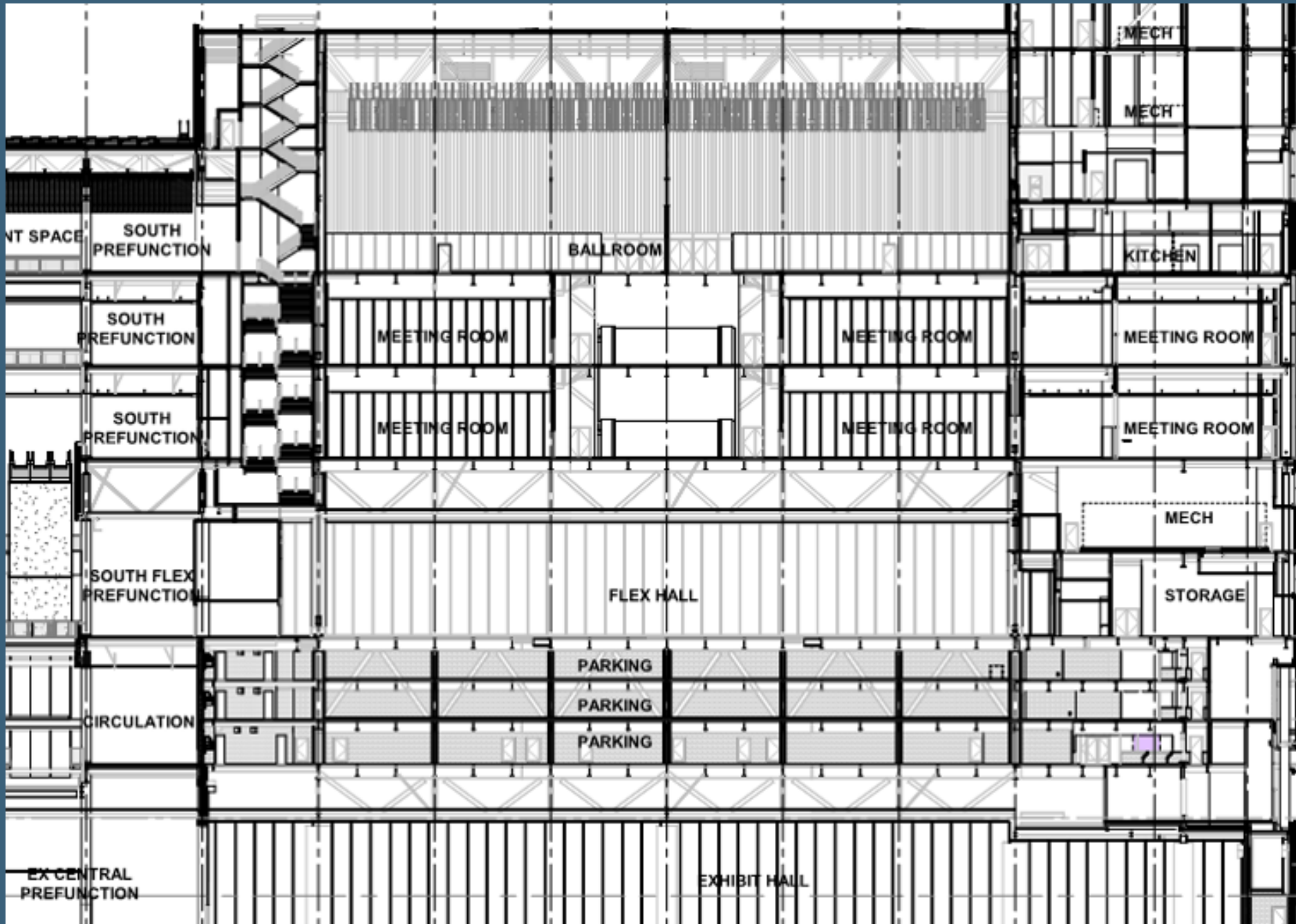
Construction Planning: Temporary Olive Way

Vehicle & Bus Access to I-5 for the duration of construction:

- Three lanes of traffic for Olive (one bus, two GP lanes)
- Three lanes of traffic for Howell (one bus, two GP lanes)

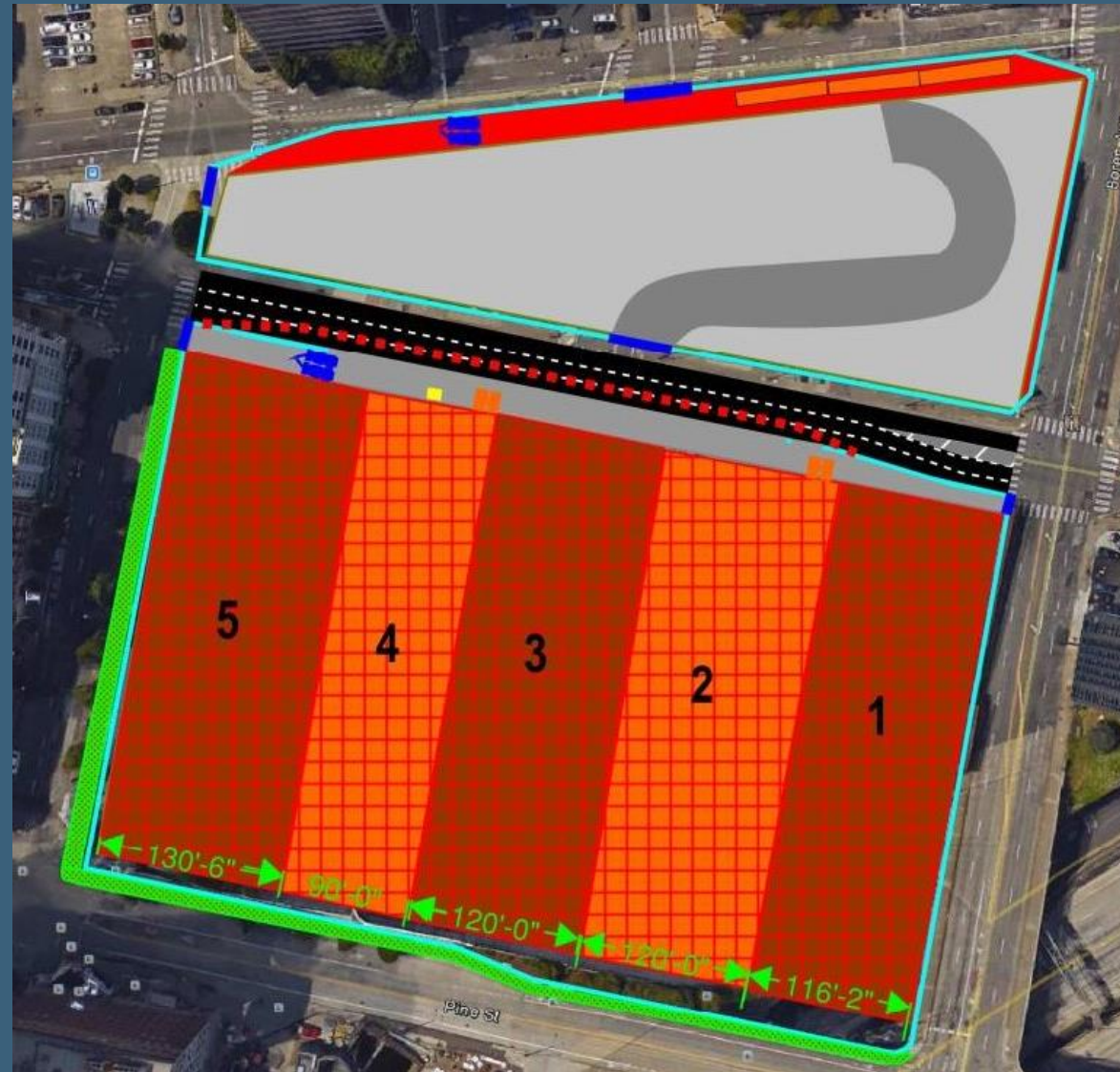




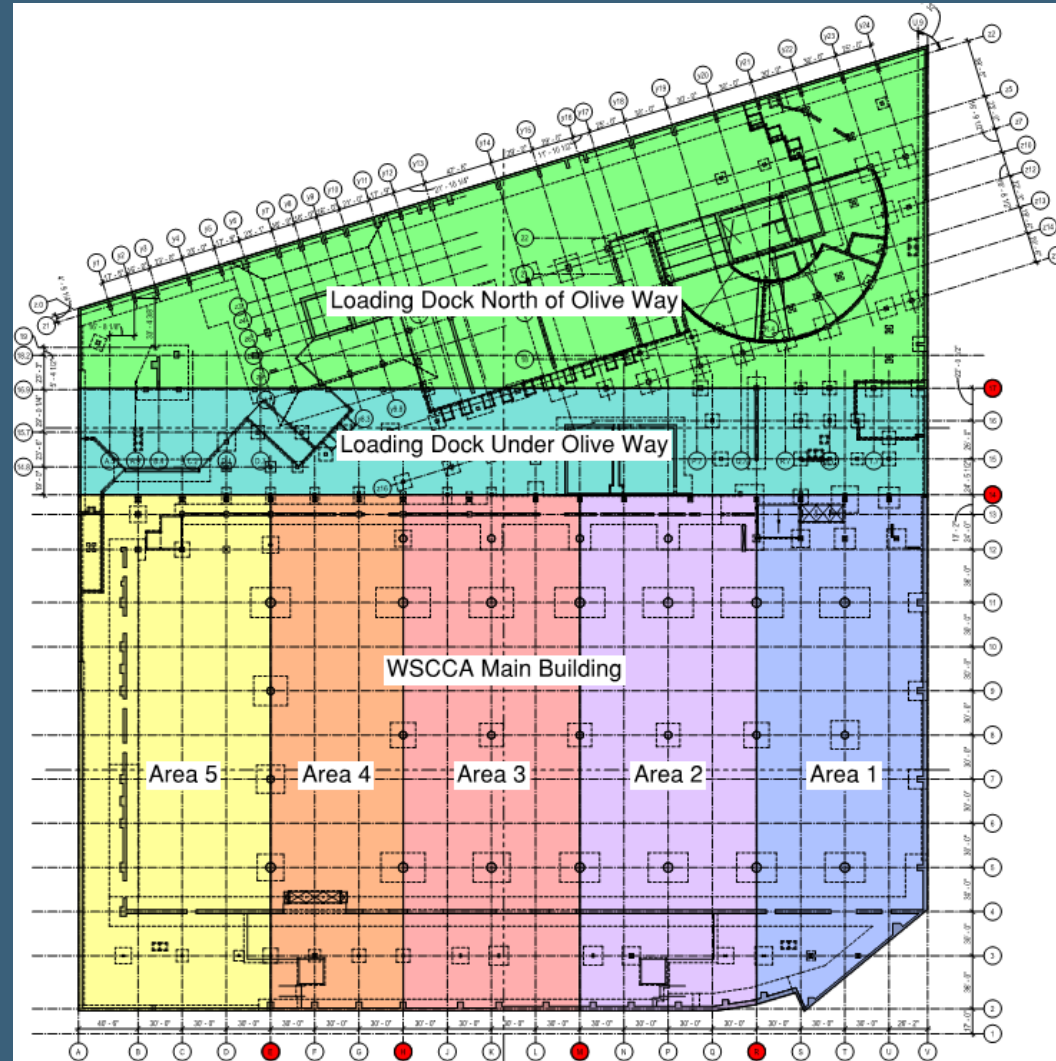


Construction Planning: Structural Steel Sequence

Advantage of Vertical
Construction



Construction Planning: Structural Steel Billboard Sequence



Construction Planning: Enclosure System



Construction Planning Enclosure System



Retail on 9th Avenue

Construction Planning Enclosure System



Boren Avenue street view

Construction Planning Enclosure System



Boren and Olive (Night)

JULY 2018



Q&A

JULY 2021



Port of Seattle Restroom Renovations Enabling Phase 2

2018 Regional Contracting Forum



Restroom Renovation Phase 2 Enabling Work

- Project Manager: Penne Pelton
- Location: Concourse C ramp level
- The work involved in this phase of the project is to create space for airline functions currently using space where new restrooms will go. This project also renovates and enlarges one set of restrooms.
- Anticipated Advertisement: September, 2018



- Construction Duration: This work is phased in order to keep operations functions working during construction. Total duration is 300 days.
- ROM Estimate: \$4 M - \$6 M
- Major Trades Involved:

Finish Carpenters

Concrete

Electricians

HVAC

Framing

Drywall

Glazing

Painting/wall cover

Flooring

Plumbing

- Pelton.penne@portseattle.org





Restroom Renovation Phase 3 - Prototype

- Project Manager: Penne Pelton
- Location: Concourse D Concourse level
- The work involved in this phase of the project is to reconfigure, renovate, and enlarge one set of restrooms (Men's, Women's and Family)
- Anticipated Advertisement: October, 2018



- Construction Duration: 270 days.
- ROM Estimate: \$1.5 M - \$2.5 M
- Major Trades Involved:

Finish Carpenters

Concrete

Electricians

HVAC

Framing

Drywall

Glazing

Painting/wall cover

Flooring

Plumbing

- Pelton.penne@portseattle.org

Sound Transit Downtown Redmond Link Extension (DRLE) Project

2018 Regional Contracting Forum

A low-angle shot of a white and blue Sound Transit train at a station platform. The train is moving from left to right. The platform has a glass and metal roof structure. The train's windows and doors are visible. The Sound Transit logo and name are prominently displayed on the side of the train.

RTA/CN 0148-18

Downtown Redmond Link Extension (DRLE)

Design-Build

 **SOUNDTRANSIT**

Petra Payne

SR. DESIGN & CONSTRUCTION CONTRACTS SPECIALIST

Eza Agoes

PRINCIPAL CONSTRUCTION MANAGER

Presenters

2018-2019



Sept. 12,
2018

**SOQs
Due**

Nov. 2018

RFP
Issued

~4 weeks prior
to Proposal due

Addendum
Period Ends

April 2019

Proposals
Due

July 2019

Notice of
Intent to
Award

Sept. 2019

Notice to
Proceed

Important Dates



DRLE Project Scope of Work & Schedule

Eza Agoes, Principal Construction Manager, Sound Transit



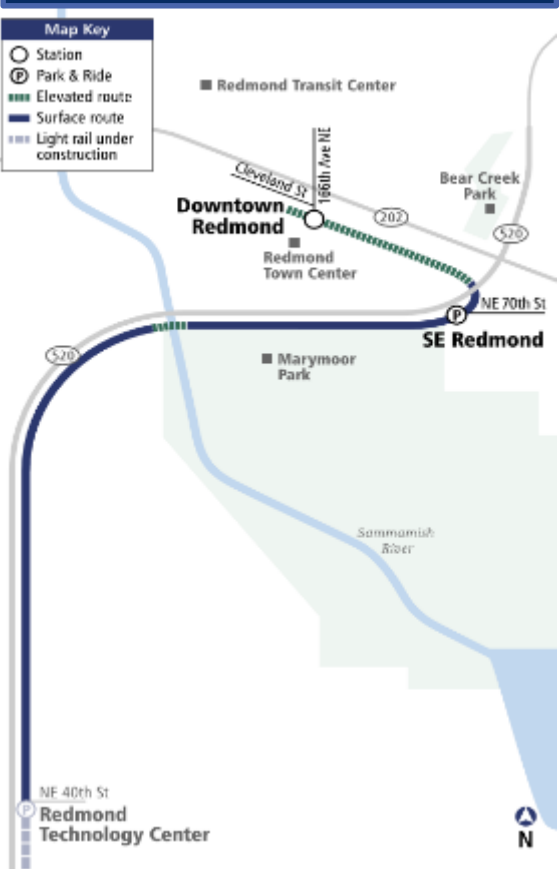
GENERAL CORRIDOR PROJECT	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
GENERAL CORRIDOR PROJECTS														
Everett to Seattle														
LINK 1 (Everett to Seattle) (2017-2021)														
LINK 2 (Seattle to Bellevue) (2017-2021)														
EAST CORRIDOR PROJECTS														
Redmond to Everett														
Everett to Everett (Loop to Loop)														
HOV 3+														
HOV 3+ to HOV 2+														
Link Extension Everett to Everett														
EVERETT TO SEATTLE PROJECTS														
Link 1 (Everett to Seattle) (2017-2021)														
Link 2 (Seattle to Bellevue) (2017-2021)														
Link 3 (Bellevue to Everett) (2017-2021)														
Link 4 (Bellevue to Everett) (2017-2021)														
Link 5 (Bellevue to Everett) (2017-2021)														
Link 6 (Bellevue to Everett) (2017-2021)														
Link 7 (Bellevue to Everett) (2017-2021)														
Link 8 (Bellevue to Everett) (2017-2021)														
Link 9 (Bellevue to Everett) (2017-2021)														
Link 10 (Bellevue to Everett) (2017-2021)														
Link 11 (Bellevue to Everett) (2017-2021)														
Link 12 (Bellevue to Everett) (2017-2021)														
Link 13 (Bellevue to Everett) (2017-2021)														
Link 14 (Bellevue to Everett) (2017-2021)														
Link 15 (Bellevue to Everett) (2017-2021)														
Link 16 (Bellevue to Everett) (2017-2021)														
Link 17 (Bellevue to Everett) (2017-2021)														
Link 18 (Bellevue to Everett) (2017-2021)														
Link 19 (Bellevue to Everett) (2017-2021)														
Link 20 (Bellevue to Everett) (2017-2021)														
Link 21 (Bellevue to Everett) (2017-2021)														
Link 22 (Bellevue to Everett) (2017-2021)														
Link 23 (Bellevue to Everett) (2017-2021)														
Link 24 (Bellevue to Everett) (2017-2021)														
Link 25 (Bellevue to Everett) (2017-2021)														
Link 26 (Bellevue to Everett) (2017-2021)														
Link 27 (Bellevue to Everett) (2017-2021)														
Link 28 (Bellevue to Everett) (2017-2021)														
Link 29 (Bellevue to Everett) (2017-2021)														
Link 30 (Bellevue to Everett) (2017-2021)														
Link 31 (Bellevue to Everett) (2017-2021)														
Link 32 (Bellevue to Everett) (2017-2021)														
Link 33 (Bellevue to Everett) (2017-2021)														
Link 34 (Bellevue to Everett) (2017-2021)														
Link 35 (Bellevue to Everett) (2017-2021)														
Link 36 (Bellevue to Everett) (2017-2021)														
Link 37 (Bellevue to Everett) (2017-2021)														
Link 38 (Bellevue to Everett) (2017-2021)														
Link 39 (Bellevue to Everett) (2017-2021)														
Link 40 (Bellevue to Everett) (2017-2021)														
Link 41 (Bellevue to Everett) (2017-2021)														
Link 42 (Bellevue to Everett) (2017-2021)														
Link 43 (Bellevue to Everett) (2017-2021)														
Link 44 (Bellevue to Everett) (2017-2021)														
Link 45 (Bellevue to Everett) (2017-2021)														
Link 46 (Bellevue to Everett) (2017-2021)														
Link 47 (Bellevue to Everett) (2017-2021)														
Link 48 (Bellevue to Everett) (2017-2021)														
Link 49 (Bellevue to Everett) (2017-2021)														
Link 50 (Bellevue to Everett) (2017-2021)														
Link 51 (Bellevue to Everett) (2017-2021)														
Link 52 (Bellevue to Everett) (2017-2021)														
Link 53 (Bellevue to Everett) (2017-2021)														
Link 54 (Bellevue to Everett) (2017-2021)														
Link 55 (Bellevue to Everett) (2017-2021)														
Link 56 (Bellevue to Everett) (2017-2021)														
Link 57 (Bellevue to Everett) (2017-2021)														
Link 58 (Bellevue to Everett) (2017-2021)														
Link 59 (Bellevue to Everett) (2017-2021)														
Link 60 (Bellevue to Everett) (2017-2021)														
Link 61 (Bellevue to Everett) (2017-2021)														
Link 62 (Bellevue to Everett) (2017-2021)														
Link 63 (Bellevue to Everett) (2017-2021)														
Link 64 (Bellevue to Everett) (2017-2021)														
Link 65 (Bellevue to Everett) (2017-2021)														
Link 66 (Bellevue to Everett) (2017-2021)														
Link 67 (Bellevue to Everett) (2017-2021)														
Link 68 (Bellevue to Everett) (2017-2021)														
Link 69 (Bellevue to Everett) (2017-2021)														
Link 70 (Bellevue to Everett) (2017-2021)														
Link 71 (Bellevue to Everett) (2017-2021)														
Link 72 (Bellevue to Everett) (2017-2021)														
Link 73 (Bellevue to Everett) (2017-2021)														
Link 74 (Bellevue to Everett) (2017-2021)														
Link 75 (Bellevue to Everett) (2017-2021)														
Link 76 (Bellevue to Everett) (2017-2021)														
Link 77 (Bellevue to Everett) (2017-2021)														
Link 78 (Bellevue to Everett) (2017-2021)														
Link 79 (Bellevue to Everett) (2017-2021)														
Link 80 (Bellevue to Everett) (2017-2021)														
Link 81 (Bellevue to Everett) (2017-2021)														
Link 82 (Bellevue to Everett) (2017-2021)														
Link 83 (Bellevue to Everett) (2017-2021)														
Link 84 (Bellevue to Everett) (2017-2021)														
Link 85 (Bellevue to Everett) (2017-2021)														
Link 86 (Bellevue to Everett) (2017-2021)														
Link 87 (Bellevue to Everett) (2017-2021)														
Link 88 (Bellevue to Everett) (2017-2021)														
Link 89 (Bellevue to Everett) (2017-2021)														
Link 90 (Bellevue to Everett) (2017-2021)														
Link 91 (Bellevue to Everett) (2017-2021)														
Link 92 (Bellevue to Everett) (2017-2021)														
Link 93 (Bellevue to Everett) (2017-2021)														
Link 94 (Bellevue to Everett) (2017-2021)														
Link 95 (Bellevue to Everett) (2017-2021)														
Link 96 (Bellevue to Everett) (2017-2021)														
Link 97 (Bellevue to Everett) (2017-2021)														
Link 98 (Bellevue to Everett) (2017-2021)														
Link 99 (Bellevue to Everett) (2017-2021)														
Link 100 (Bellevue to Everett) (2017-2021)														



SOUND TRANSIT SYSTEM EXPANSION MAP



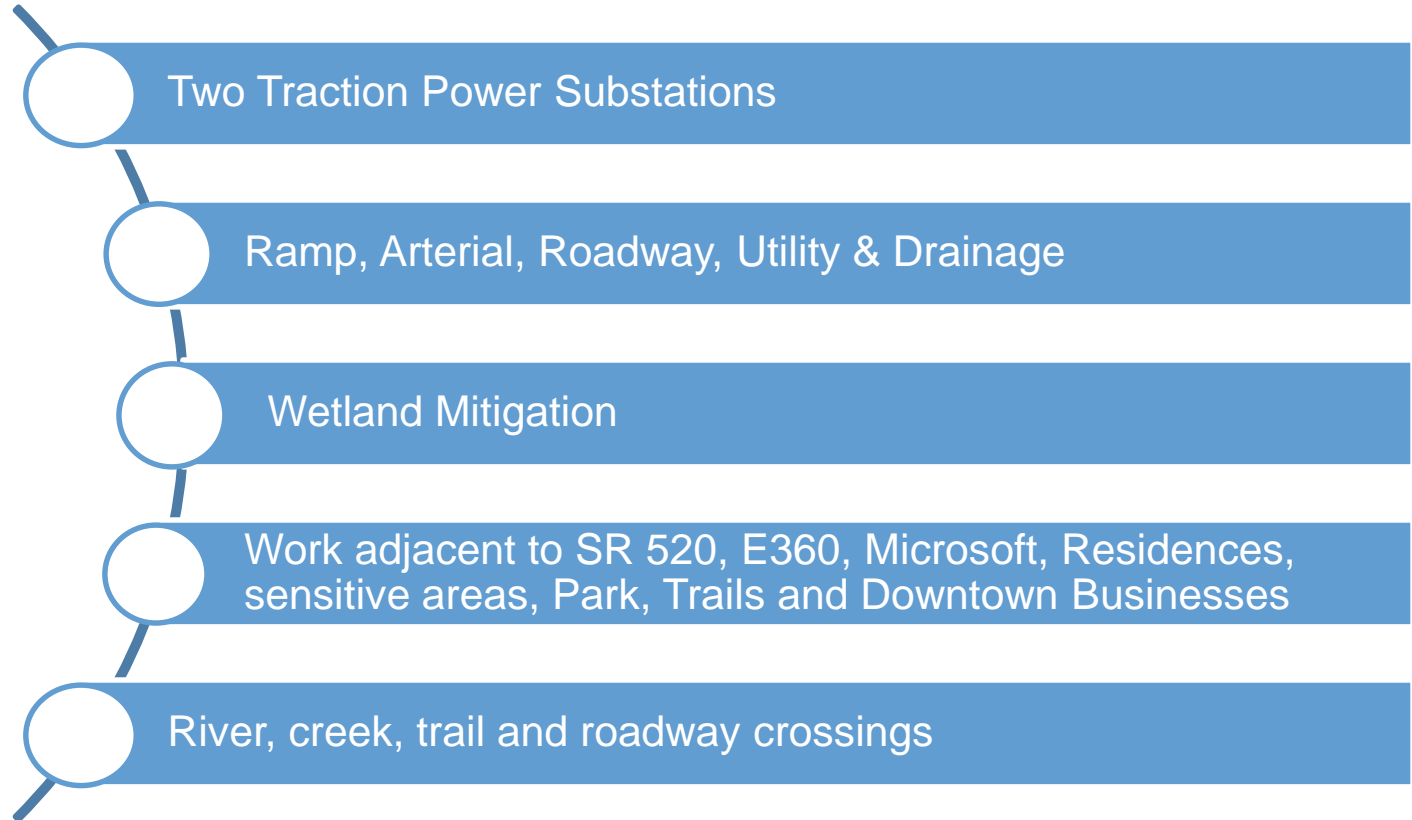
DOWNTOWN REDMOND LINK EXTENSION



Project Scope

- 3.4-Mile Light Rail Extension, Opening for Revenue Service in 2024
- Turn-key Civil and System, Design-Build Contract Delivery
- Guideway (Elevated, At-Grade, Retained Cut & Fill, Cut & Cover)
- Two Stations (Elevated and At-Grade)
- One Parking Garage (1400 Stalls) With Transit only Ground Floor

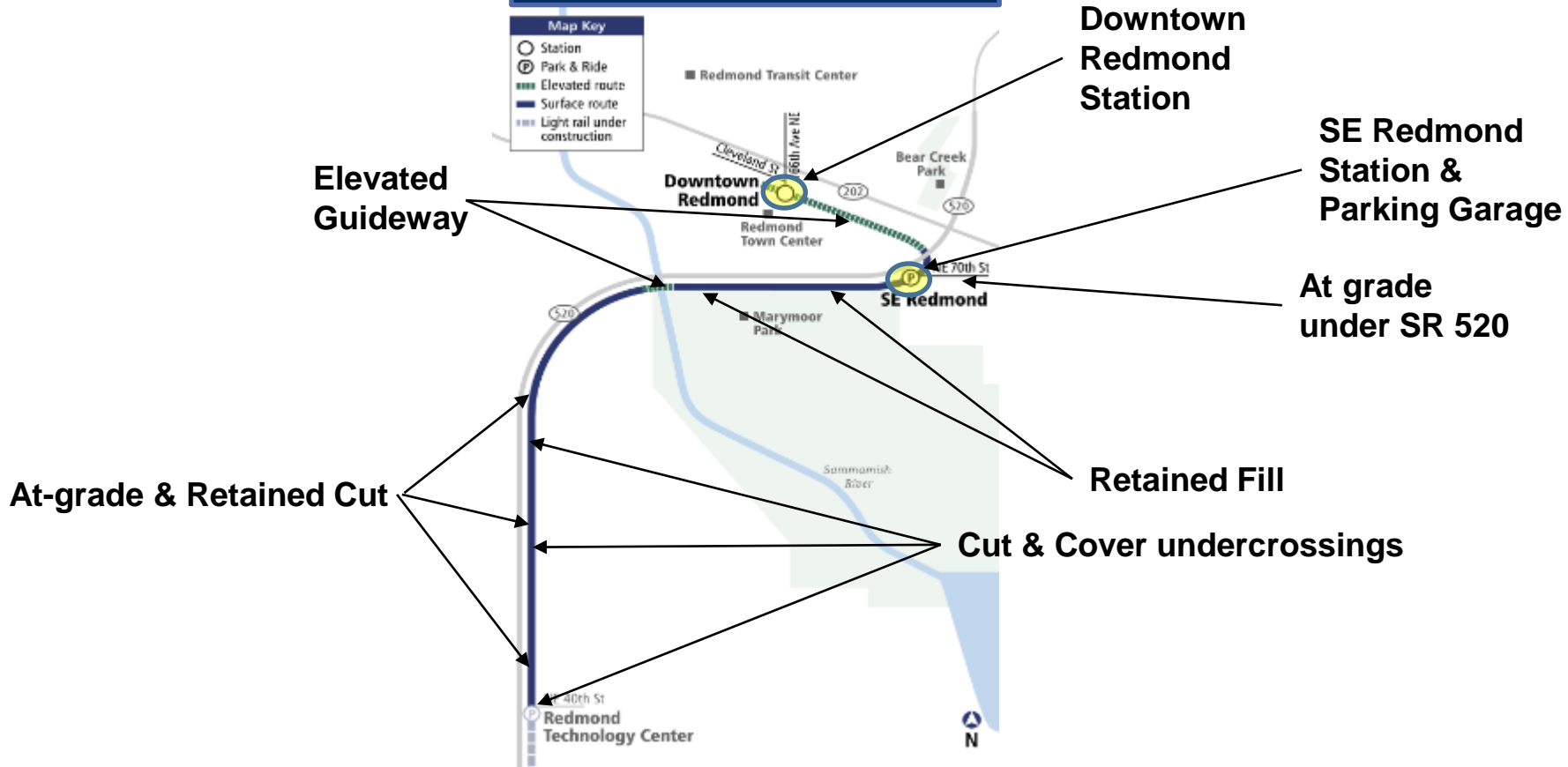
Project Scope



DOWNTOWN REDMOND LINK EXTENSION

Map Key

- Station
- Ⓟ Park & Ride
- ▬ Elevated route
- ▬ Surface route
- ▬ Light rail under construction



**Elevated
Guideway**

**Downtown
Redmond
Station**

**SE Redmond
Station &
Parking Garage**

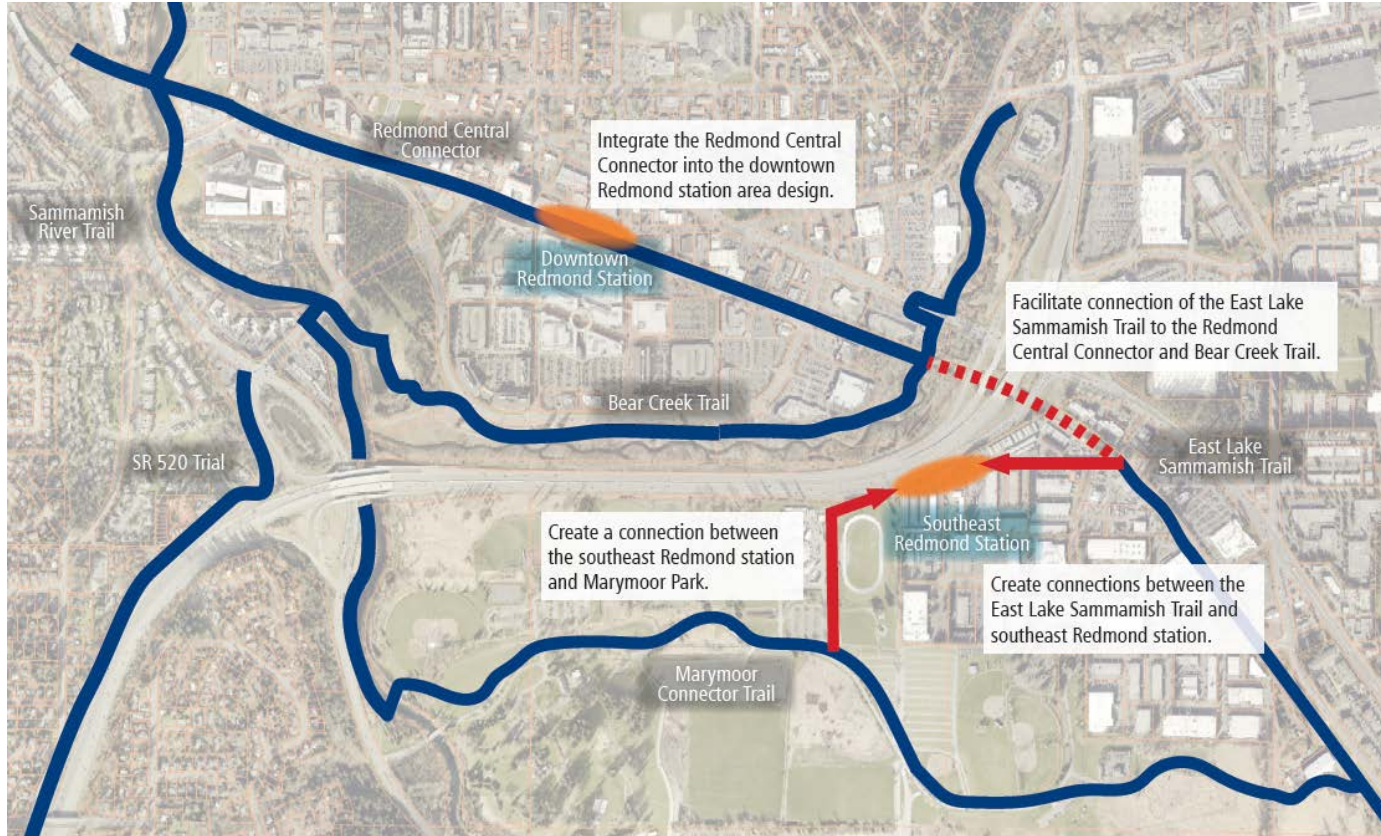
**At grade
under SR 520**

At-grade & Retained Cut

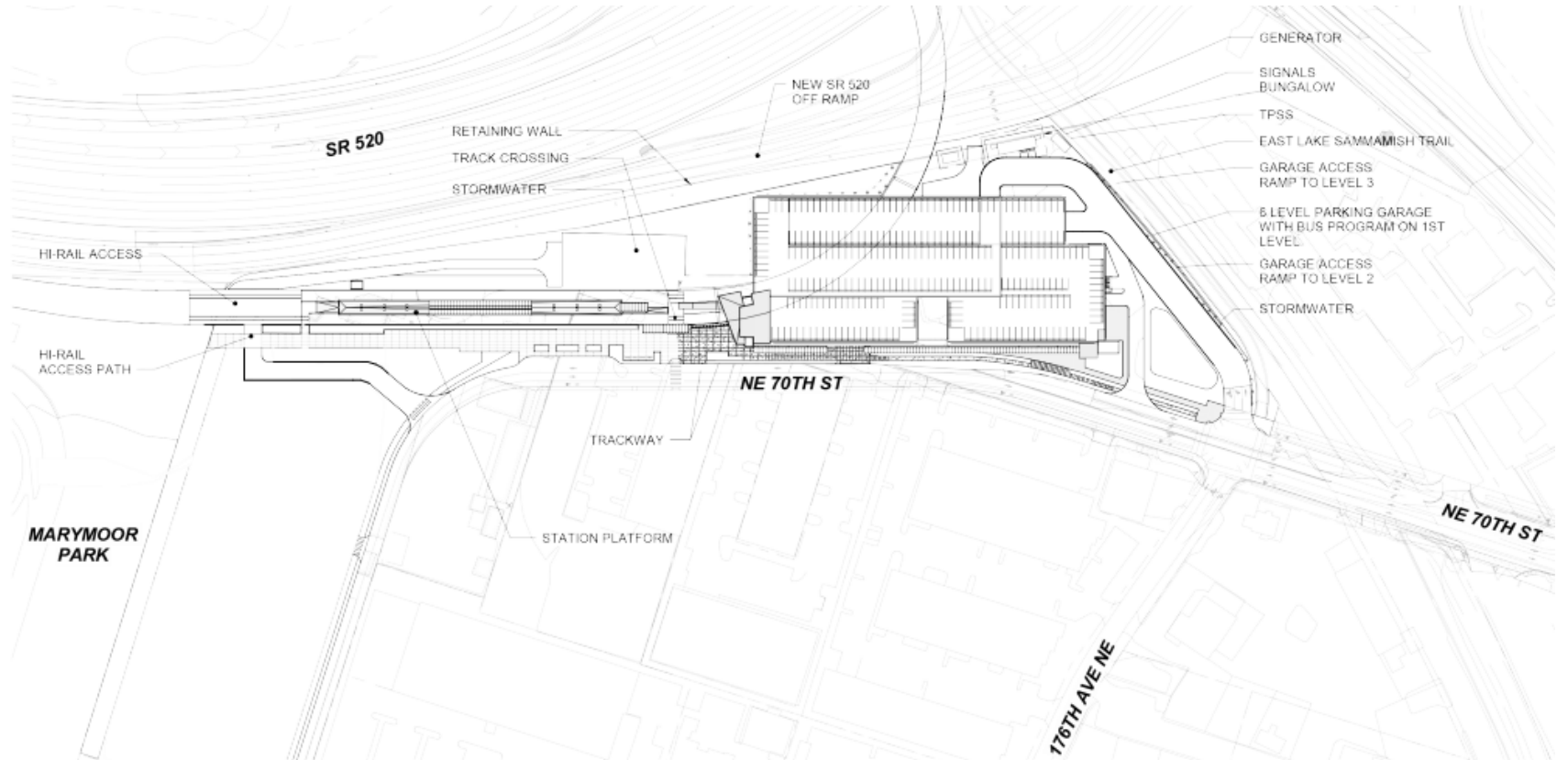
Retained Fill

Cut & Cover undercrossings

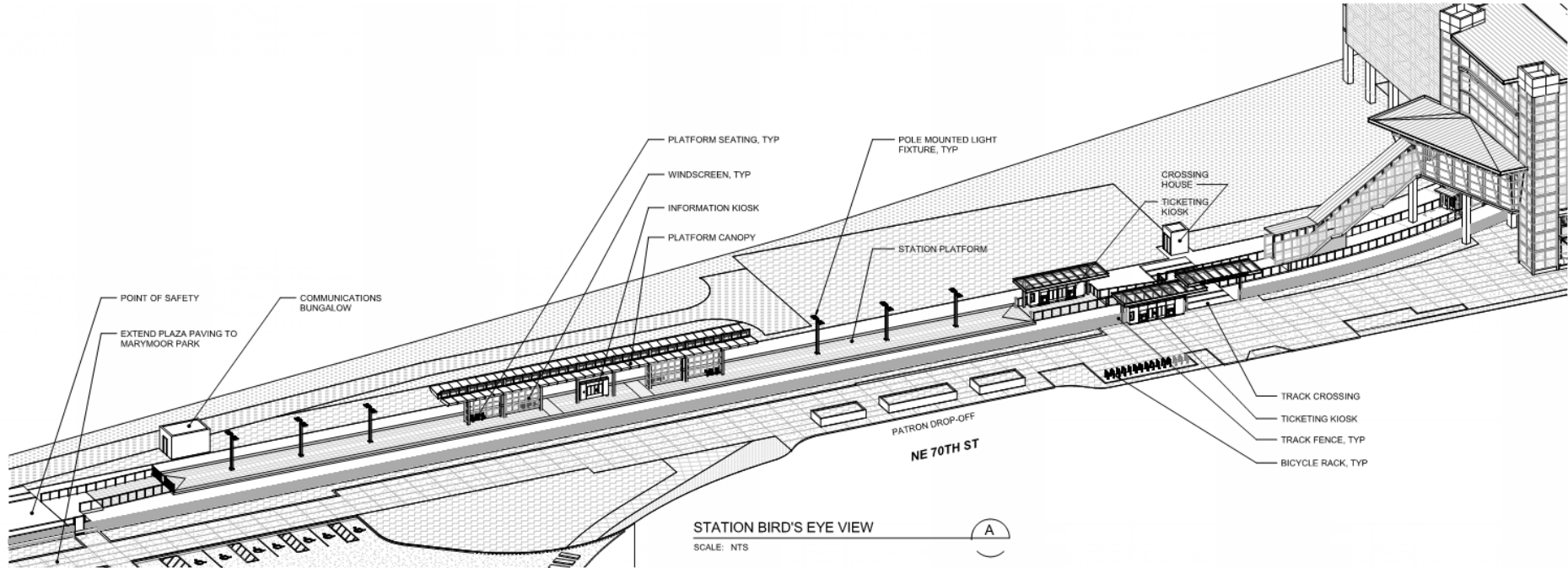
Trails Modifications



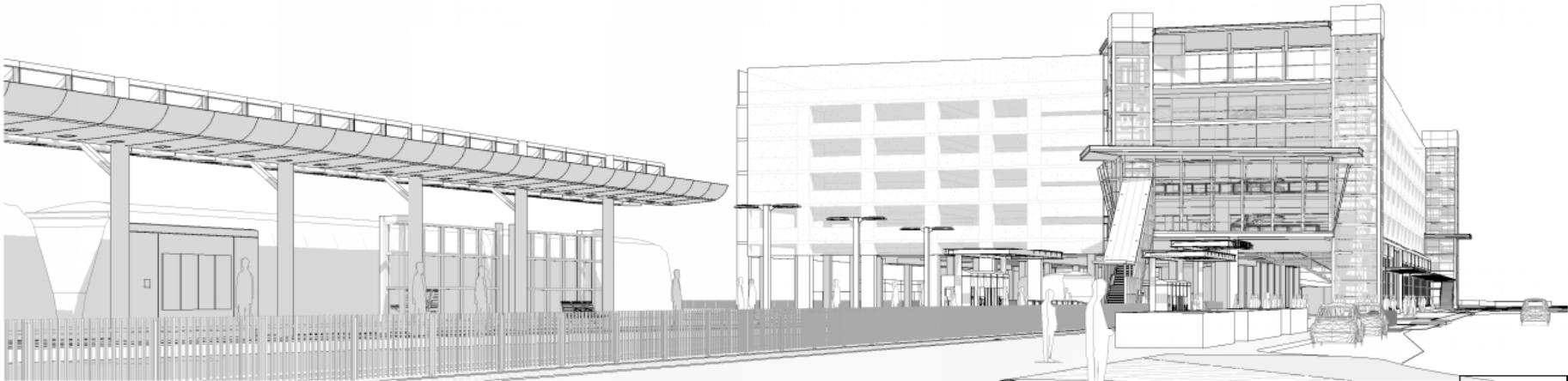
SE Redmond Station Site – Design Concept



SE Redmond Station Site – Design Concept



SE Redmond Station Plaza & Garage



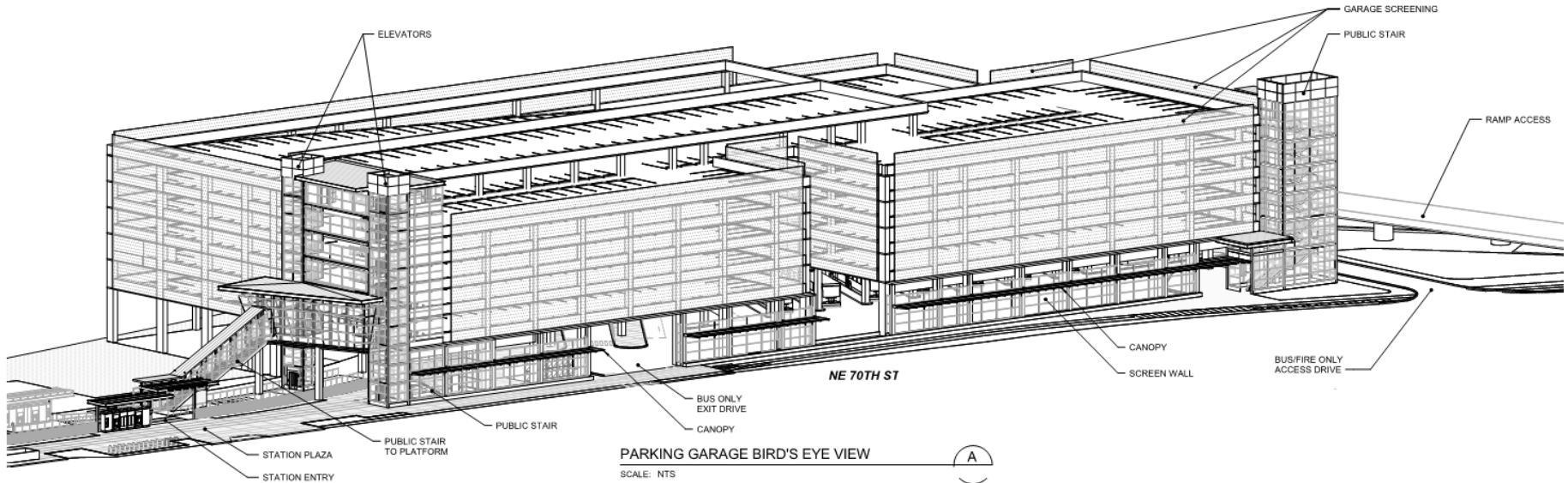
STATION PLAZA LOOKING EAST

SCALE: NTS

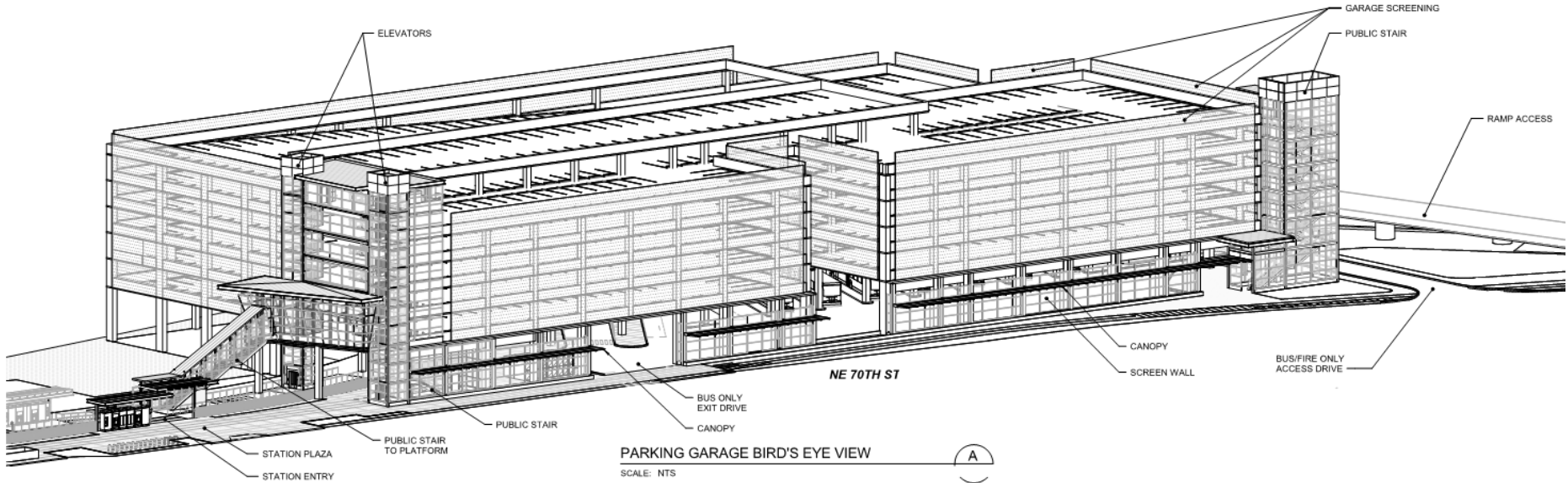


PRELIMINARY
ENGINEERING

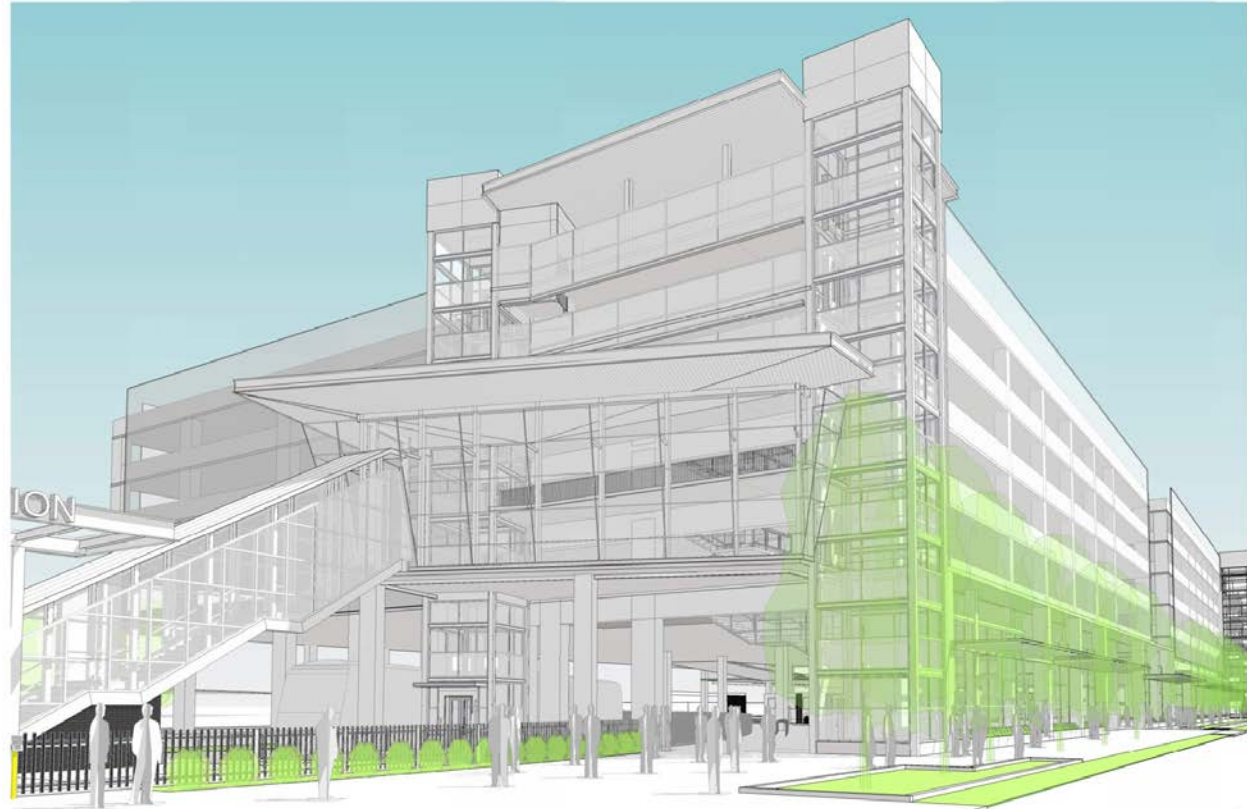
SE Redmond Parking Garage – Design Concept



SE Redmond Parking Garage – Design Concept

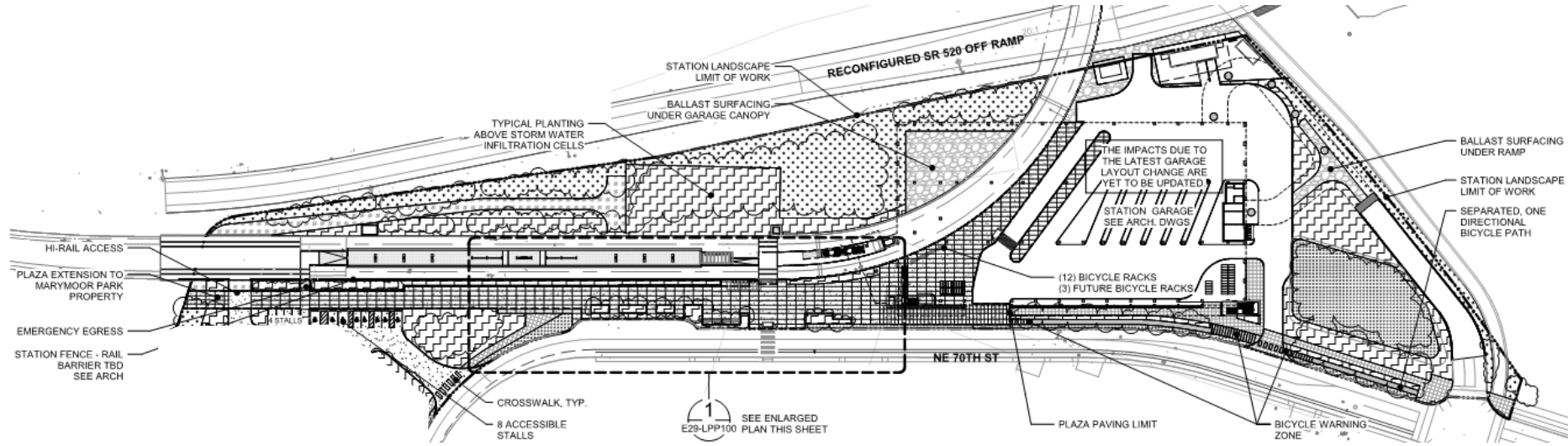


SE Redmond Parking Garage

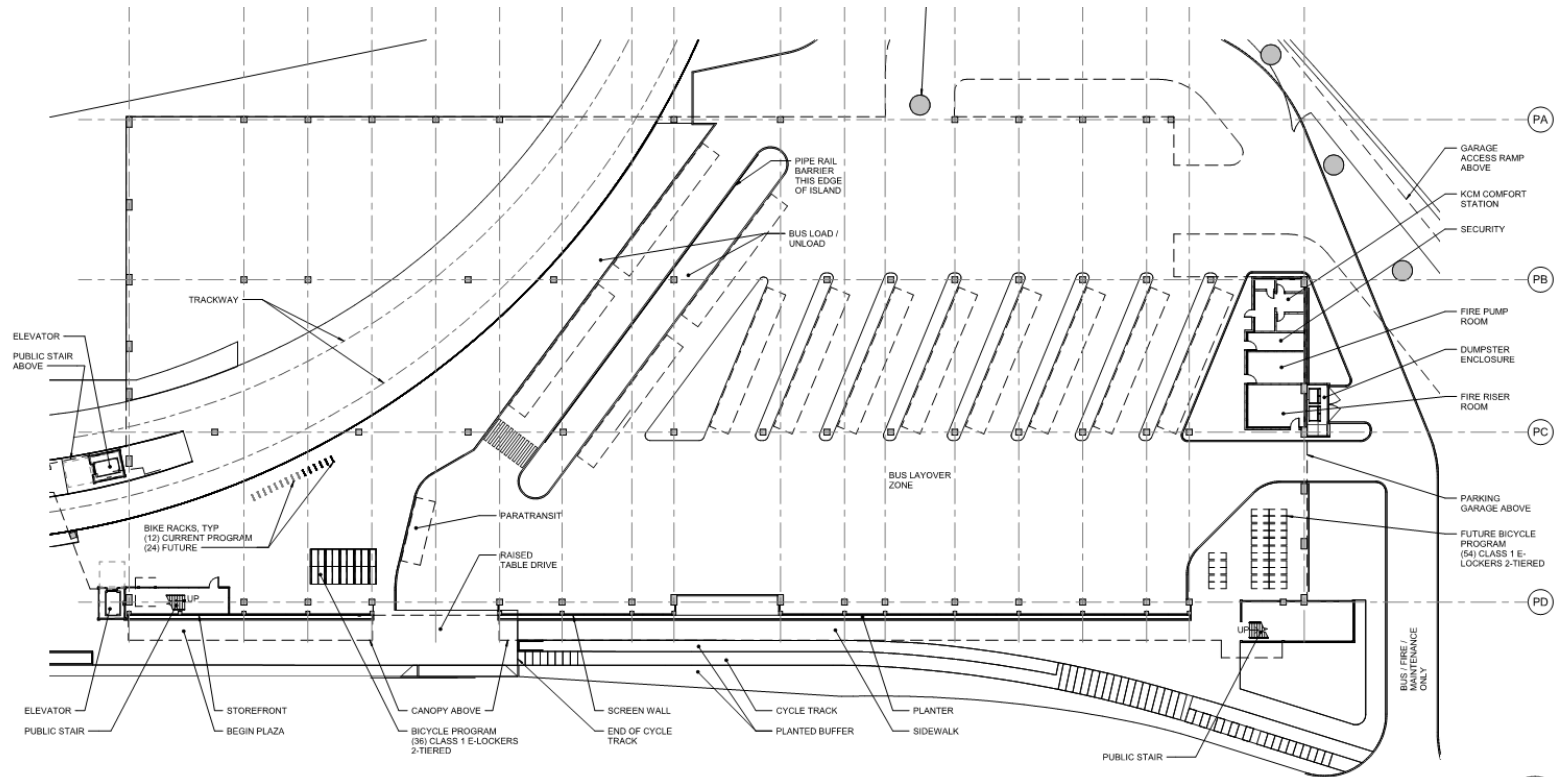


SOUTHEAST REDMOND
PEDESTRIAN PERSPECTIVE

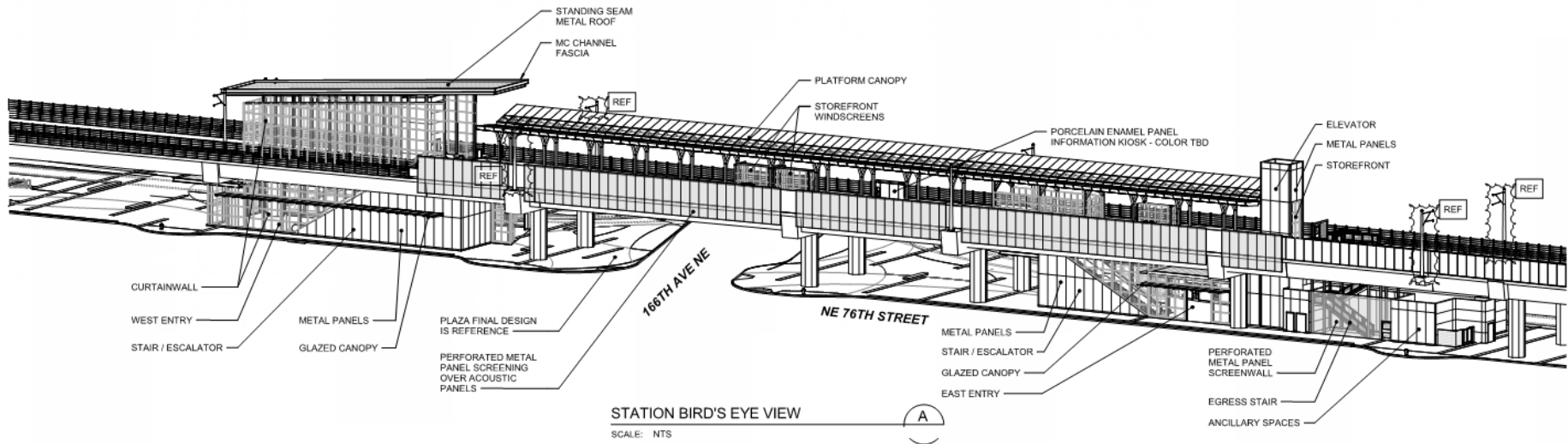
SE Redmond Bus Transit – Design Concept



SE Redmond Bus Transit – Design Concept



Downtown Redmond Station – Design Concept

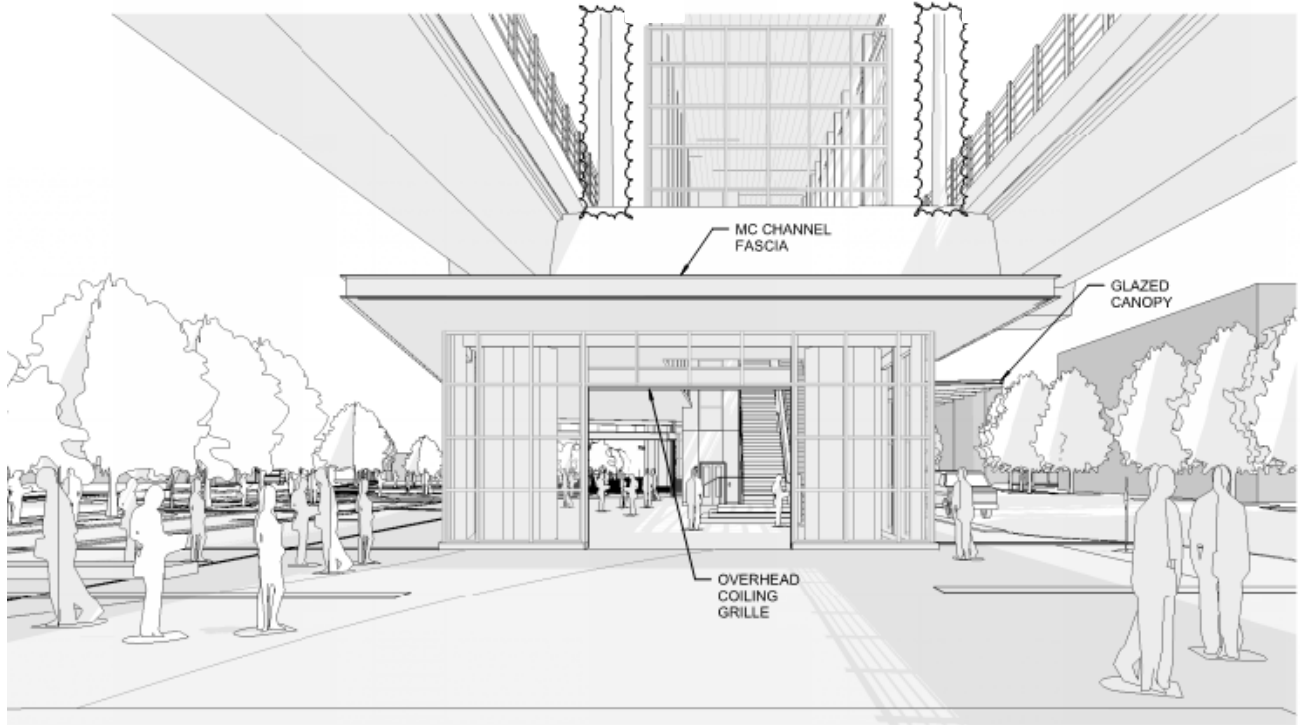


Downtown Redmond Station – Design Concept



View of the Tail tracks

Downtown Redmond Station – Design Concept

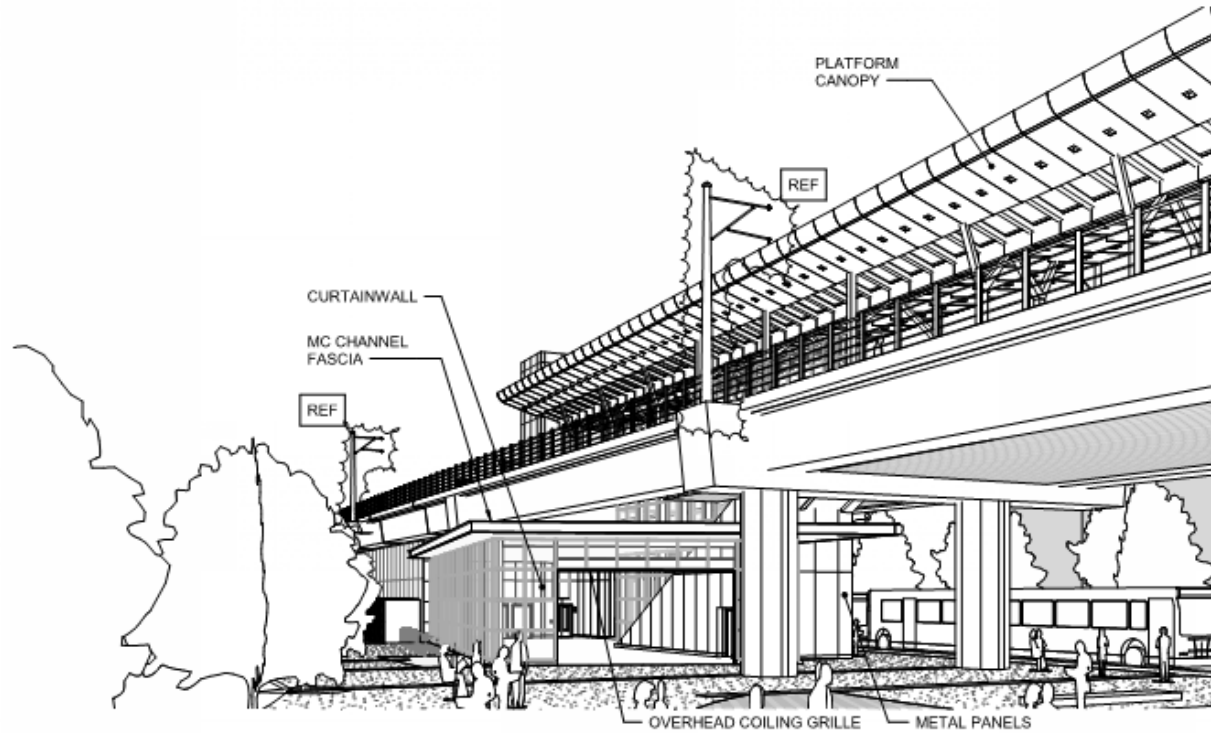


WEST HEAD HOUSE WEST ENTRANCE

SCALE: NTS



Downtown Redmond Station – Design Concept

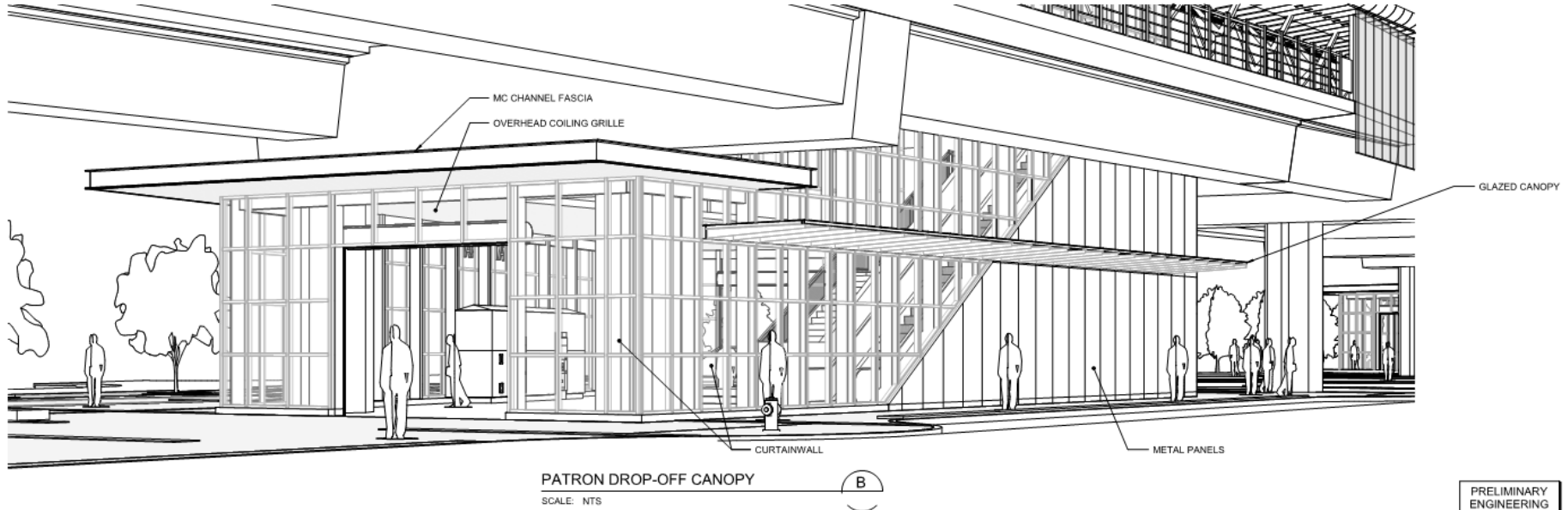


EAST HEAD HOUSE FROM 166TH

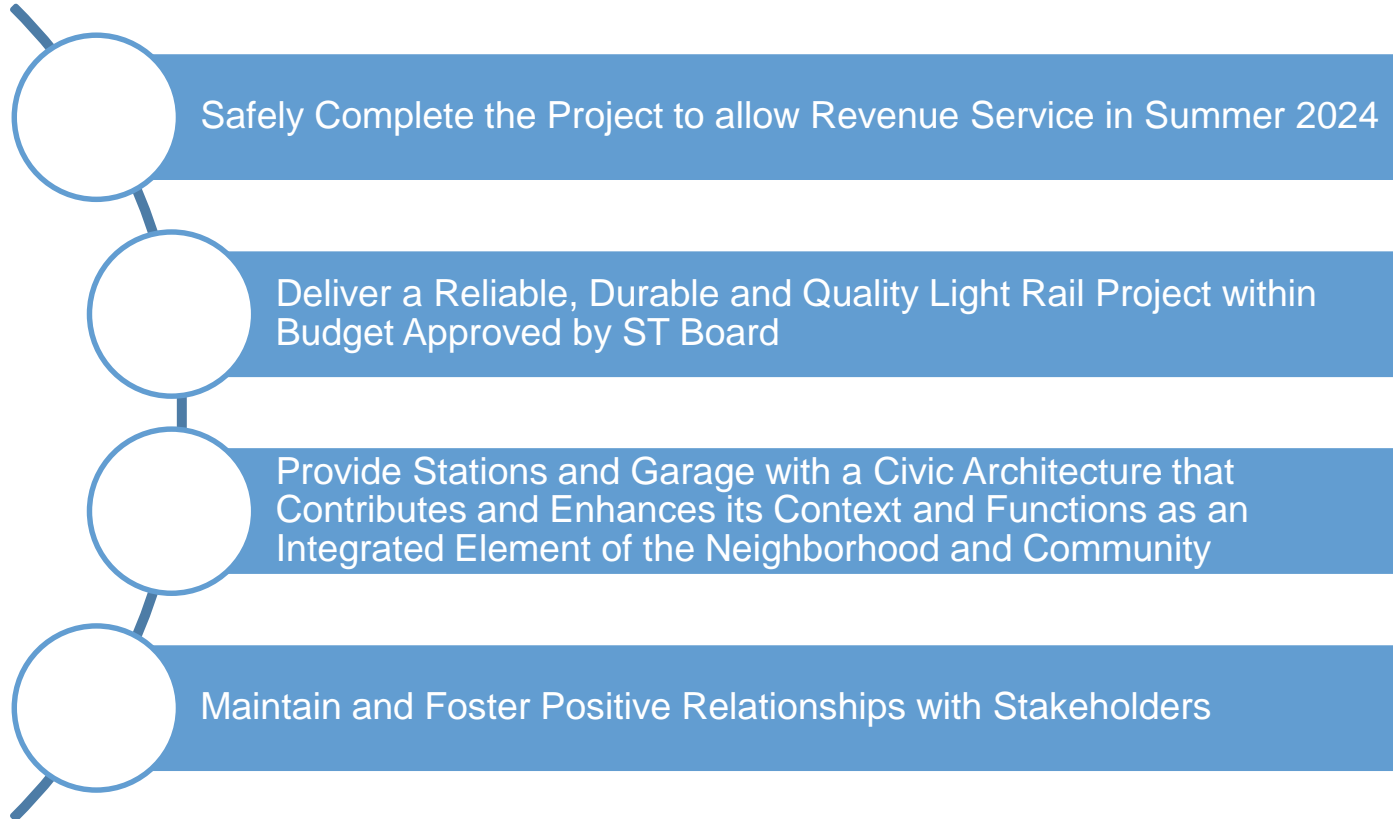
SCALE: NTS



Downtown Redmond Station – Design Concept




Project Goals



Project Goals – Cont'd



Project Challenges Include

- 
- Market Conditions – Price Escalation & Labor Availability
 - Schedule – Design & Permits, ROW Acquisition
 - Limited Construction Staging
 - Cut & Cover Work – Utilities and MOT
 - SR 520 Ramp Work
 - Multiple Sound Transit openings in 2024
 - Systems Integration and Start-up

Current DRLE Project Activities

Environmental Re-Evaluation

Utility Agreements & Early Work

Right-of-Way Acquisitions

Third Party Agreements

Project Schedule

Environmental Re-Evaluation

- Complete by Q3 2018

Board Selects Project Refinements

- Q3 2018

Third-Party Agreements

- Complete by Q2 2019

Property Acquisition

- On-going, Complete in 2020

Project Schedule – Cont'd

DB RFP Development

- Complete in Q4 2018

DB Contract Procurement

- Q3 2018 – Q3 2019

DB NTP

- Q3 2019

Design, Build and Systems Integration Testing (SIT)

- Q3 2019 – Q2 2024

Project Schedule – Cont'd

Pre-Revenue Testing

- Q2 2024

Revenue Service Begins

- Q3 2024

Design Services	
Small Business Participation	[10]% of the total Contract Price for Design Services
DBE Participation	[5]% of the total Contract Price for Design Services
Construction Services (Build)	
Small Business Participation	[10]% of the total Contract Price for Construction Services
DBE Participation	[5]% of the total Contract Price for Construction Services

Small Business/DBE Goals

A close-up, low-angle shot of a white and blue Sound Transit bus. The bus features a large, stylized wave graphic in shades of blue and teal. The top half of the bus is white with several dark, rectangular windows. The bottom half is blue with more windows and a door. A semi-transparent dark grey banner is overlaid across the middle of the image, containing the Sound Transit logo and the slogan "RIDE THE WAVE".

 **SOUNDTRANSIT**
RIDE THE WAVE

King County Upcoming projects

2018 Regional Contracting Forum

Wastewater Treatment Division

Capital Projects Update

Presented to the
Regional Contracting Forum
October 9, 2018



King County

Department of
Natural Resources and Parks

Wastewater Treatment Division

Upcoming WTD Construction Projects

1. North Mercer/Enatai Interceptor Upgrade
2. South Treatment Plant
 - Medium Voltage Switchgear Replacement
 - Biogas and Heat Systems Improvements
3. West Point Treatment Plant
 - Mixed Liquor Blower Replacements
 - Primary Sedimentation Roof Removal
4. Eastside Interceptor Section 2 Rehabilitation Phase 2
5. Lake Hills and NW Lake Sammamish Interceptor

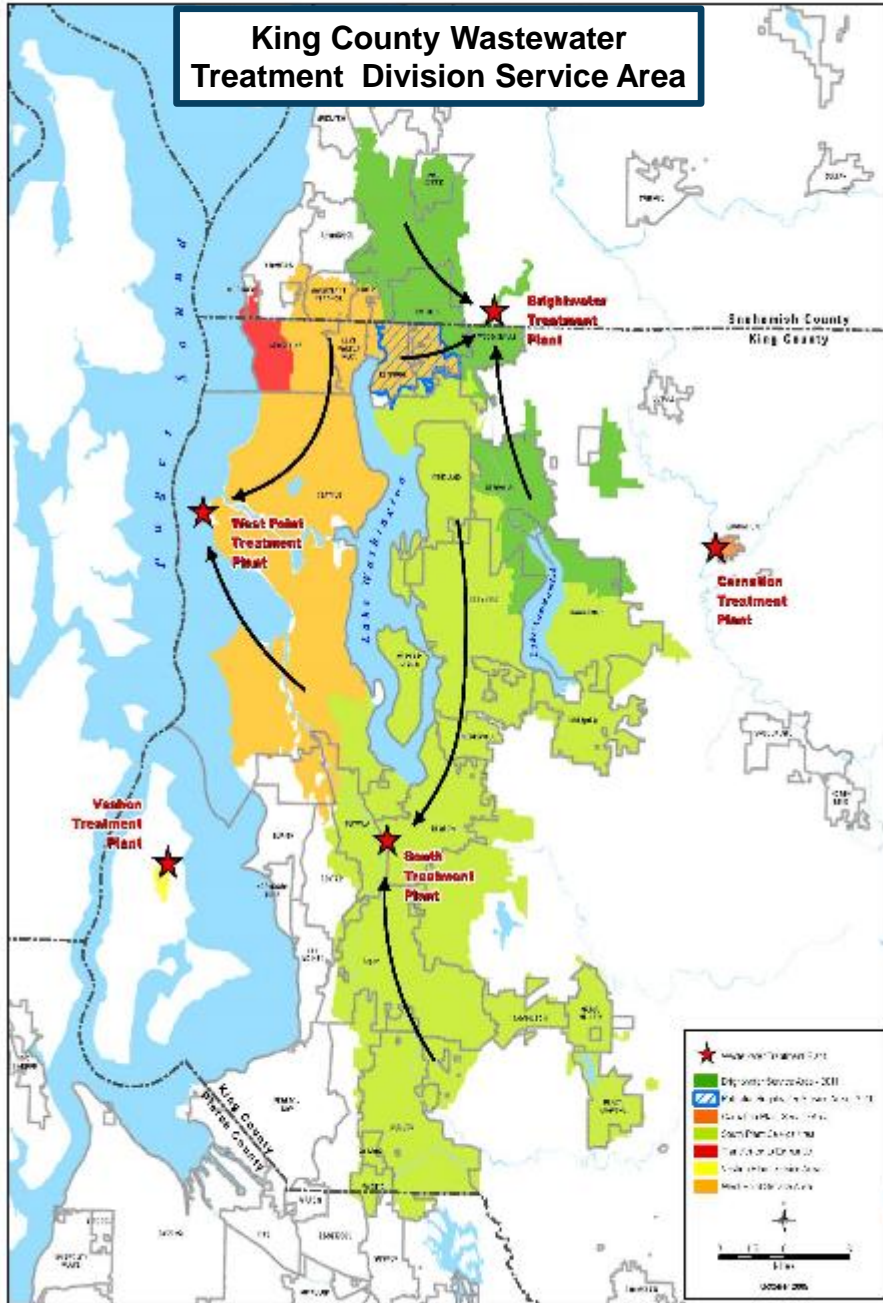


King County

Department of
Natural Resources and Parks

Wastewater Treatment Division

King County Wastewater Treatment Division Service Area



Regional Service

- 1.5 Million customers
- 600 employees
- 350 miles (540 km) conveyance pipelines
- 5 treatment plants
- 43 pumping, 19 regulator stations
- Resources created:
 - Fertilizer (biosolids)
 - Energy (biogas)
 - Reclaimed water (methane)
- WTD's Capital Program expenditures \$250M/year



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

North Mercer/Enatai Interceptor Upgrade

Objective:

Convey existing and future flows, improve operational flexibility and maximize reliability

Scope:

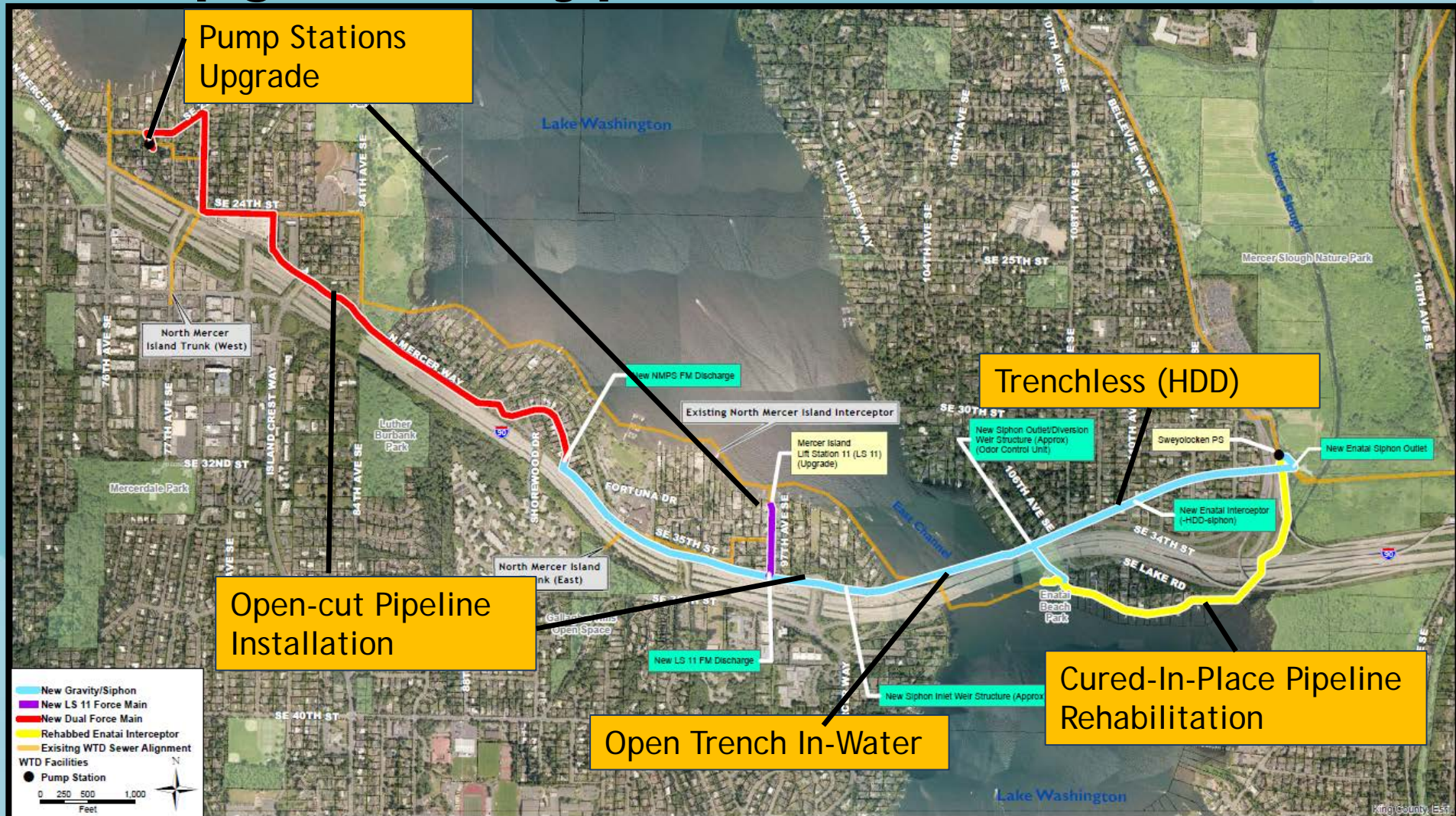
Increase capacity to 10.5 MGD by upgrading equipment, replacing Force Mains and gravity pipe, installing new gravity pipe, and pipe rehabilitation



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

North Mercer/Enatai Interceptor Upgrade - Types of Construction



North Mercer/Enatai Interceptor Upgrade

- Final design underway
- Two separate construction contracts:
 - Pump Stations Upgrades
 - North Mercer Pump Station
 - Lift Station 11
 - Pipeline Work
 - Open-Cut dual force mains and gravity
 - Open-trench in-water
 - Trenchless (Horizontal Directional Drill)
 - Cured-In-Place Pipeline Rehabilitation
- Construction NTP: 2020, four year construction duration
- Total Construction Cost Estimate: \$60 million



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

South Treatment Plant Raw Sewage Pump Medium Voltage Switchgear

Need: Existing switchgear in service since 1964, beyond estimated useful life

Scope: Replace switchgear and transformers and install new control and monitoring systems

Status: 90% Design

Schedule: 2019 Construction

Total Project Cost: \$8 Million



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

South Treatment Plant Raw Sewage Pump Medium Voltage Switchgear

New power monitoring feature will provide power data and allow maintenance staff to diagnose and correct emerging issues



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

South Plant Biogas and Heat Systems Improvements

Objective:

Improve the gas recovery system performance, efficiency, and reliability.

Scope:

Replace the existing biogas gas treatment system (installed in 1987), and provide heating equipment to meet year-round plant heat demand.



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

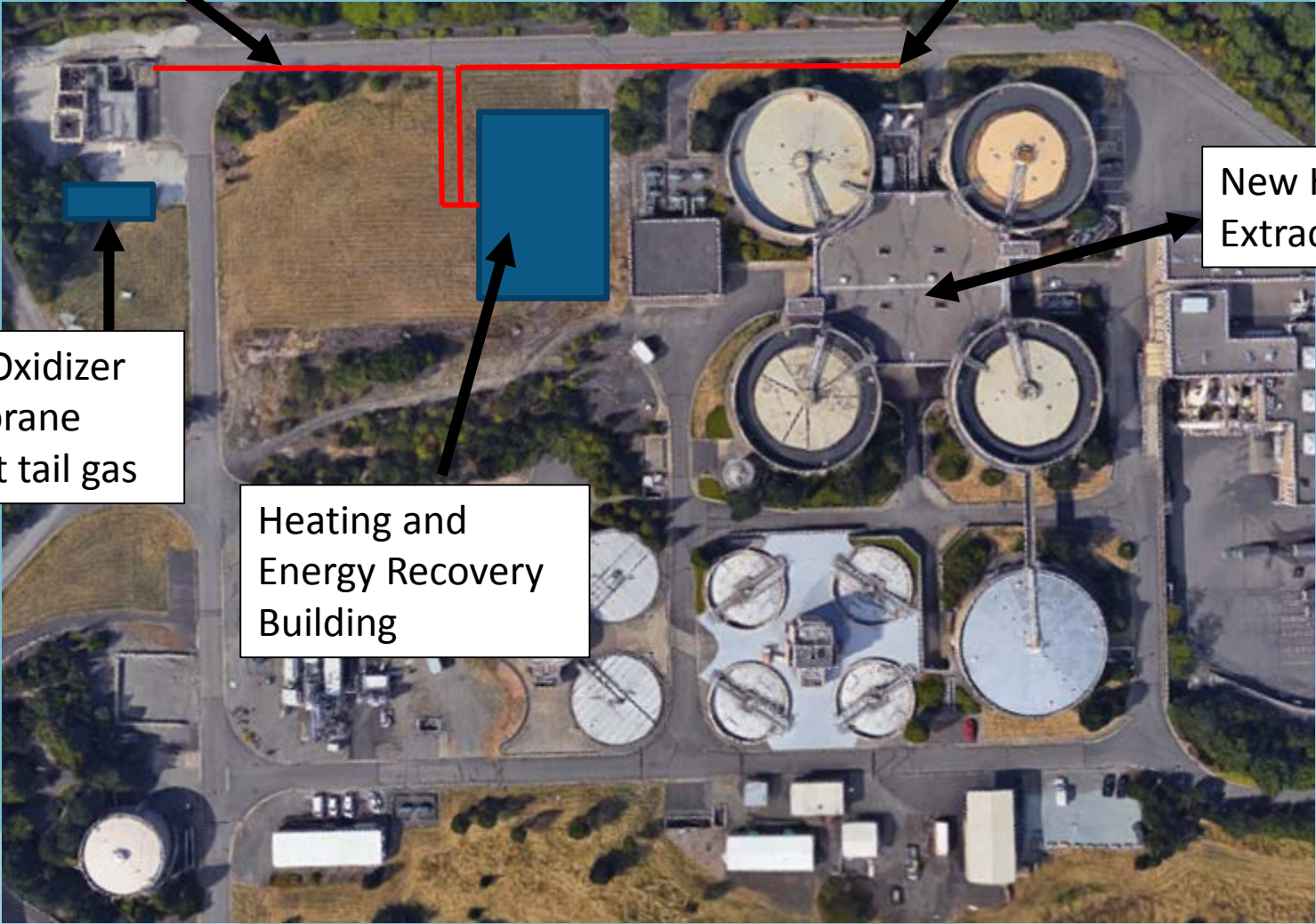
Off-spec gas disposed in existing WGBs

Shut-in valve, sales meter, and custody transfer to PSE

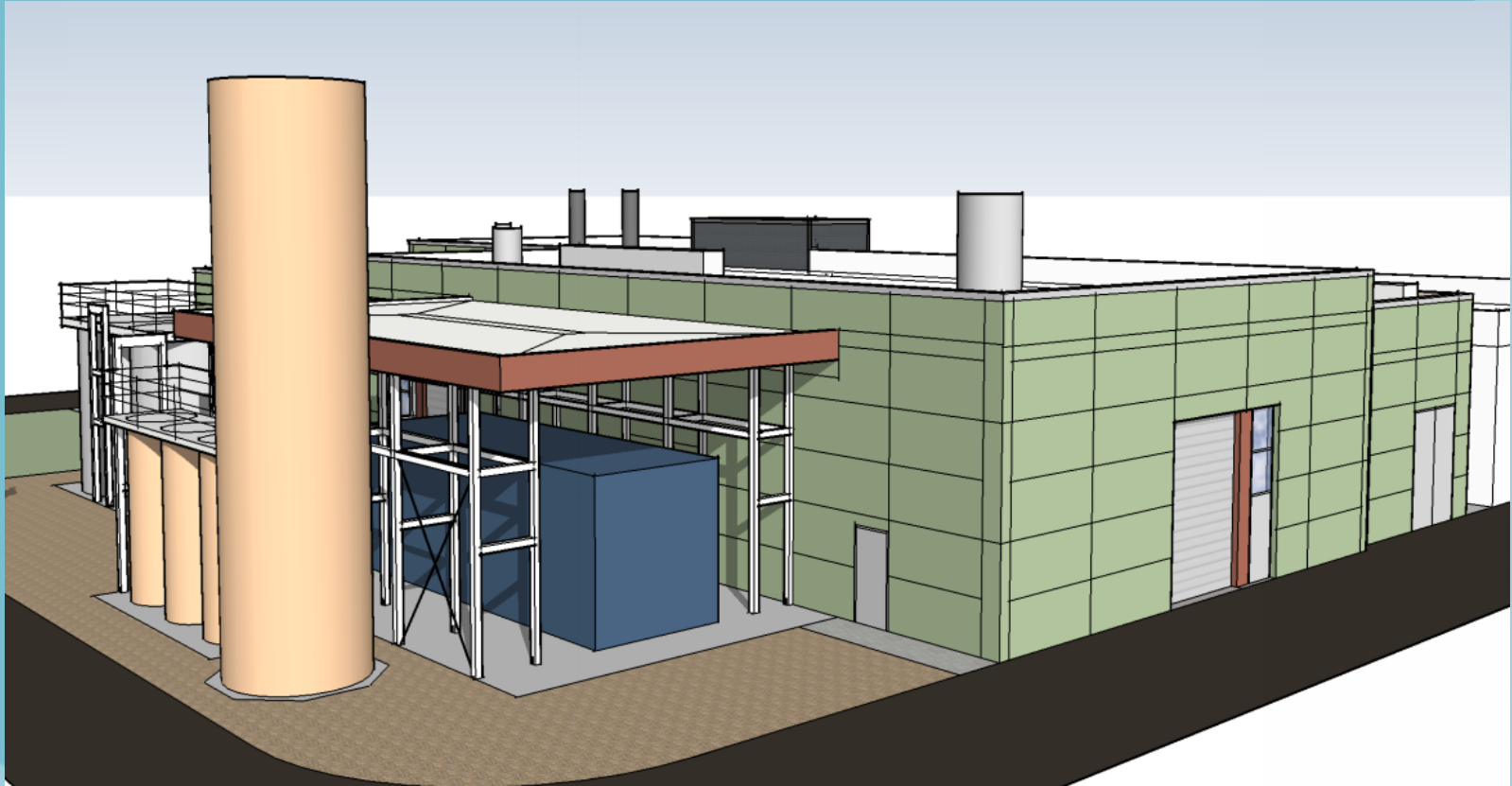
New Heat Extractors

Thermal Oxidizer for membrane treatment tail gas

Heating and Energy Recovery Building



South Plant Biogas and Heat Systems Improvements



Timeline: Construction 2019 - 2021

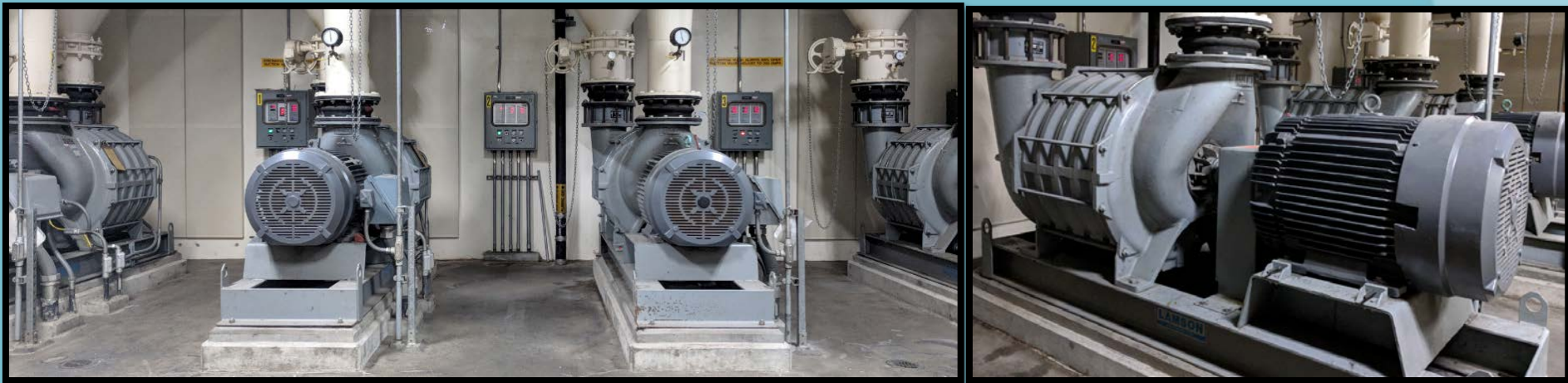
Total Project Cost: \$58 Million



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

West Point Secondary Mixed Liquor Blower Replacements



Objective: Save 800,000-1,000,000 Kilowatt-hours (kWh) annually ~ \$48,000 - \$60,000 reduction in energy costs

Scope: Replace two existing blowers with modulating high speed turbo blowers

Status: 30% Baseline Design.

Schedule: Construction in 2020

Total Project Cost: \$4 Million

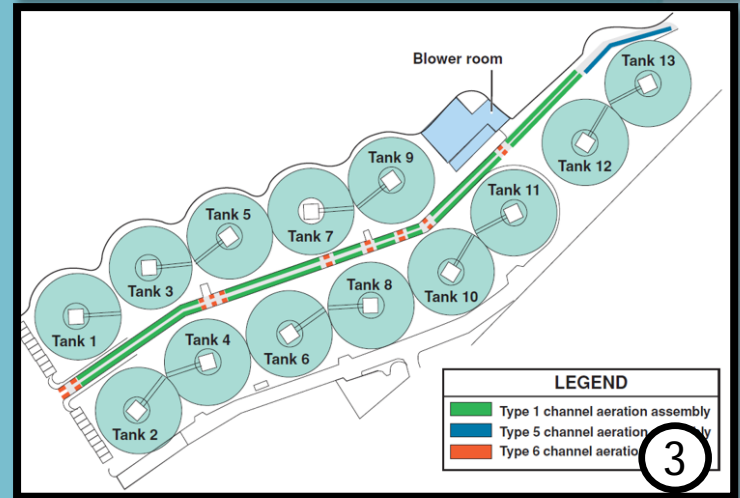


King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

West Point Secondary Mixed Liquor Blower Replacements

King County Strategic Climate Action Plan - Project is a major contributor to WTD's goal of reducing energy use 7% by 2020



West Point Treatment Plant Primary Sedimentation Roof

Project Objective: Improve seismic resiliency of roof structure over West Point Primary Clarifiers

Scope:

- Remove Z beams, girders and columns
- Upgrade tank walls
- Construct partial roof deck
- Replace odor control ductwork

Status: 30% Baseline Design

Schedule: Construction 2021-2022

Total Project Cost: \$37 Million



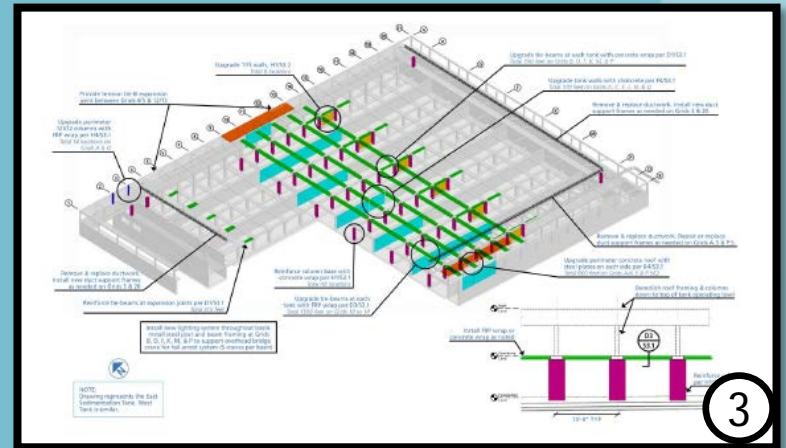
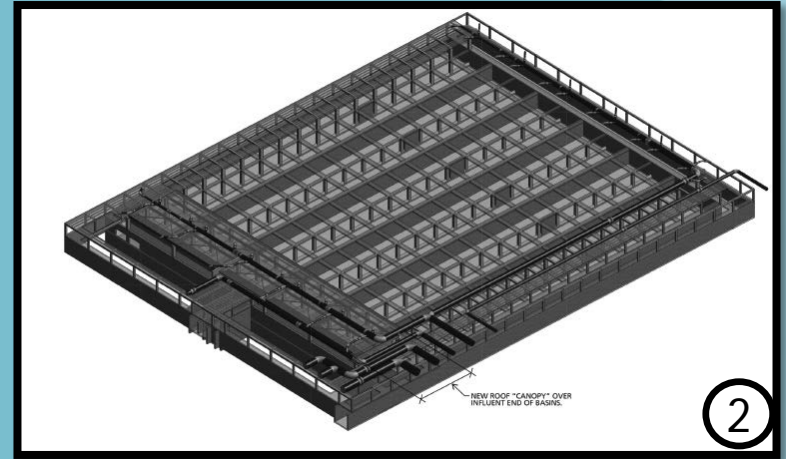
King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

West Point Treatment Plant Primary Sedimentation Roof

One Z beam weighs 5.5 tons

558 beams in total will be removed



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

Eastside Interceptor Section 2 Rehabilitation

- Extend pipeline life by rehabilitating pipe damaged by sulfide corrosion
- Scope: Rehabilitate 3,900 linear feet of 96-inch reinforced concrete pipe with Linabond
- Currently at 60% design
- Construction ad late 2018, NTP March 2019
- Total Construction Cost Estimate: \$29M



Eastside Interceptor Section 2 Rehabilitation

- Project Elements:
 - Large temporary bypass system installation and removal
 - Linabond lining system
 - Restoration
- Project Requirements:
 - Community Workforce Agreement
 - Small Contractor/Supplier Participation
 - Confined Space Entry



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

Lake Hills Trunk/ NW Lk Sammamish Interceptor Upgrade

Objective:

Increase sewer capacity to meet 2060, 20-year peak flows.

Scope:

Upgrade 4.5 miles of new and/or replaced pipeline in the City of Redmond and unincorporated KC.



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

Lake Hills Trunk/NW Lk Sammamish Interceptor Upgrade



Lake Hills Trunk/ NW Lake Sammamish Interceptor Upgrade



Timeline: Construction 2020 - 2023

Total Project Cost: \$110 Million



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division

Questions/Contact



Stan Hummel - Capital Projects Managing Supervisor
stan.hummel@kingcounty.gov 206-263-9457



King County

Department of
Natural Resources and Parks
Wastewater Treatment Division