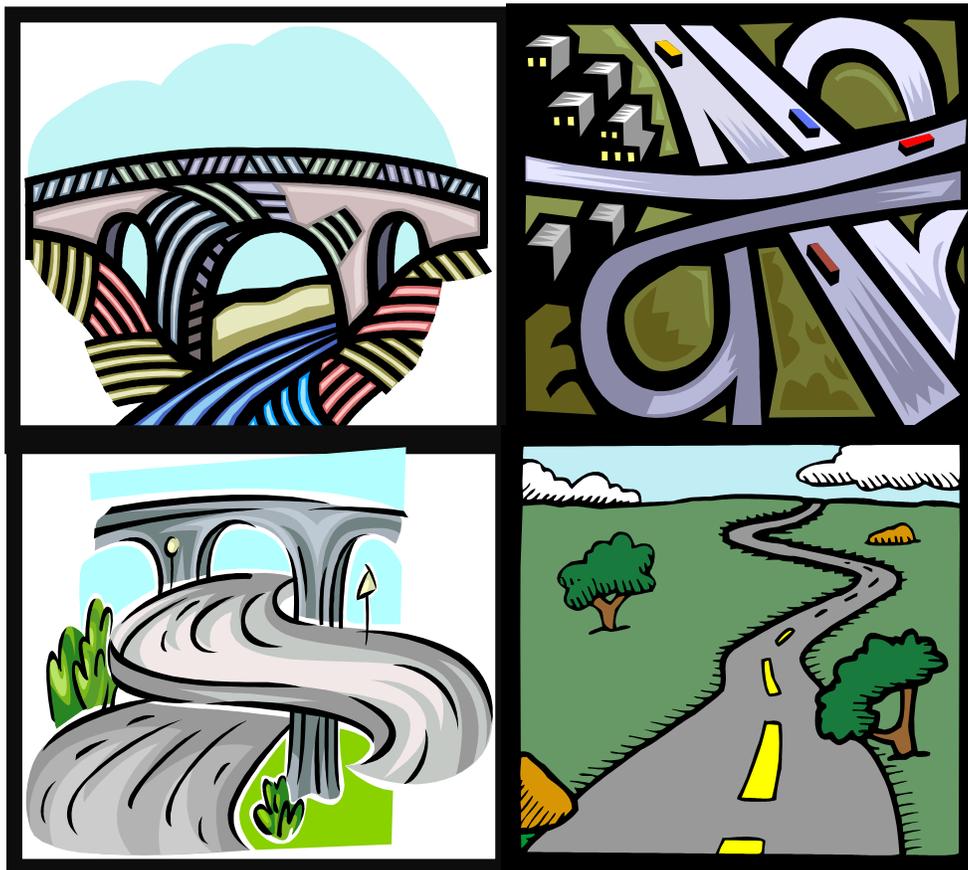


# Quarterly Transportation Meeting

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Q4—2012

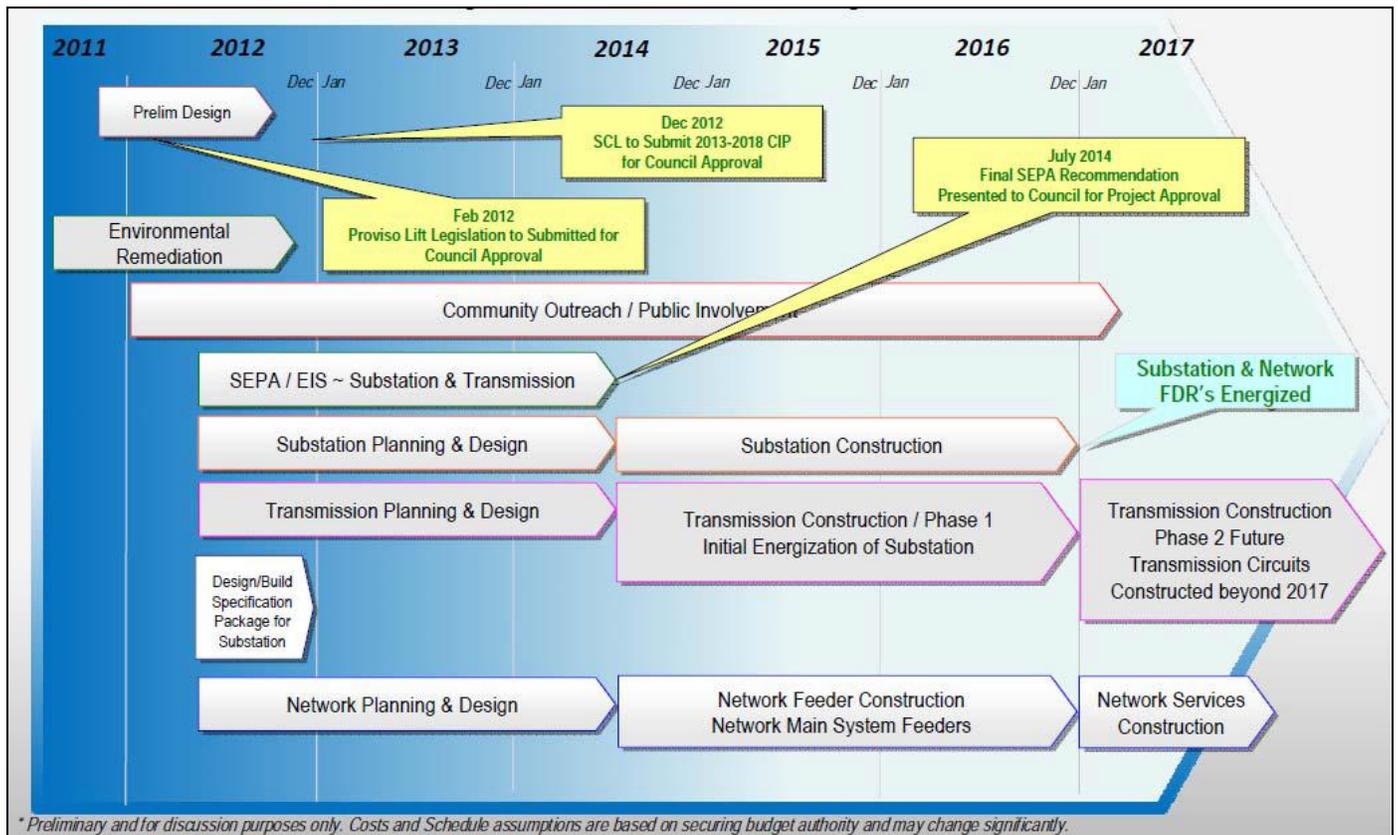


## SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** Denny Substation Program (SCL lead agency)
2. **SPU PM** Charlie Madden
3. **SPU CM** TBD
4. **SPU Water** TBD
5. **SPU DWW** TBD
6. **FOM Lead** TBD
7. **SCL PM** Greg Stamatiou
8. **SDOT PM** TBD
9. **Project Description**—The Denny Substation Program consists of developing a new substation between Minor & Yale and Denny & John (including demolition, environmental remediation and ROW vacation), transmission system development and network system development. Much of the system development will be underground and will impact SPU facilities.

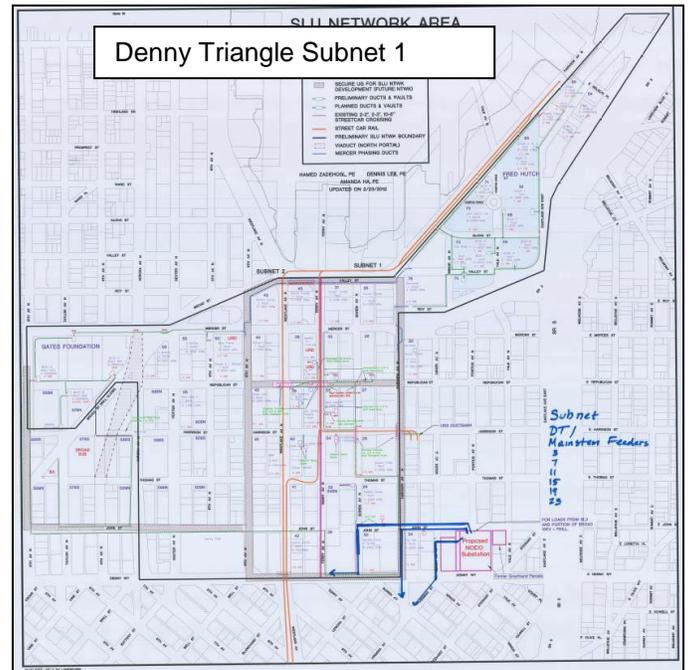
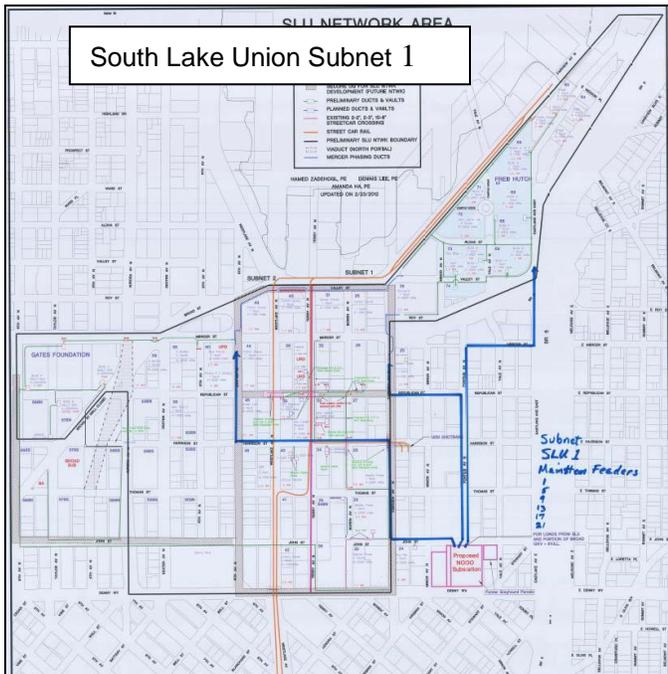
Current Milestones: TBD  
 Link to project website: TBD

### 10. Project Schedule Summary



# SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

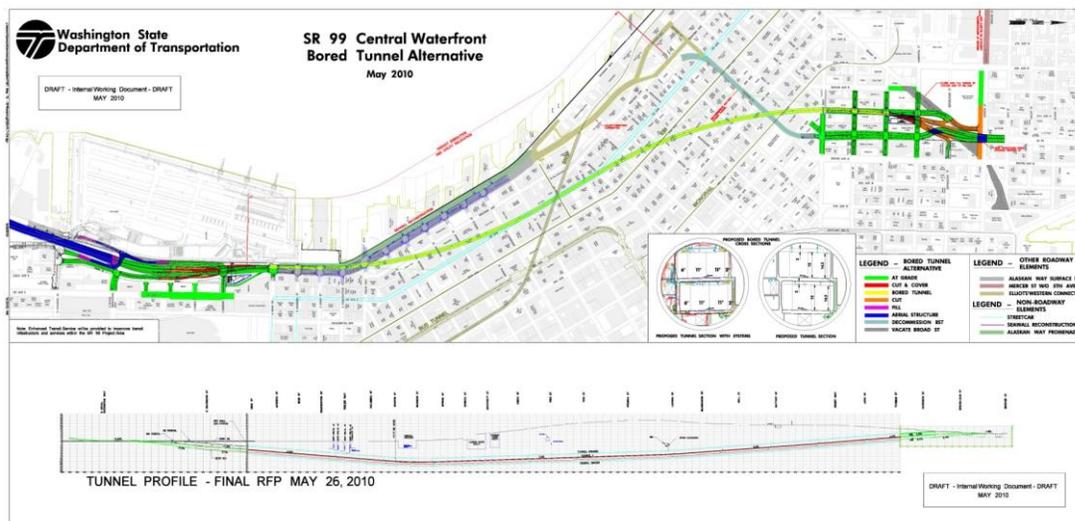
- |                                     |     |
|-------------------------------------|-----|
| 11. Cost estimate                   | TBD |
| 12. Current year cash flow estimate | TBD |
| 13. SPU workplan                    | TBD |
| 14. Project Site Map                |     |



## SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** Alaskan Way Viaduct and Seawall Replacement Project
2. **SPU PM** Gavin Patterson—Program & Project Manager on Central Waterfront, Seawall, and Battery Street Tunnel;  
Ross Hathaway—Asst Program Manager; Project Manager on the Bored Tunnel, Mercer West, and Holgate to King
3. **SPU CM** Bill Duyungan **RE:** Jeff Fowler
4. **SPU Water** Specifier: Jon Ford; Engineer: Aziz Alfi (& Jim Wilke)
5. **SPU DWW** Specifier: Rick Johnson; Engineer: Kathy Laughlin
6. **FOM Lead** Charles Oppelt
7. **SDOT PM** Eric O'Brien (Bored Tunnel)  
Eric Tweit (Mercer West)  
Steve Pearce (Waterfront Seattle)  
Brian Holloway (Elliott Bay Seawall)  
Mike Johnson (Holgate to King)
8. **Other transportation agency PM** Linea Laird
9. **Project description**
  - Transportation project objectives: Replace the functions of the existing Alaskan Way Viaduct and the Elliott Bay Seawall with a bored tunnel, surface street improvements and a replacement seawall. Widen Mercer Street and abandon Broad Street.
  - SPU scope of work: Includes water and sewer main and appurtenance relocations for direct physical conflicts, and preventive replacement of watermains at risk from normal tunnel settlement. Also includes a Central Waterfront Combined Sewer Overflow reduction project for the Washington, Madison, University, and Vine CSOs.
  - Link to project website: <http://www.wsdot.wa.gov/Projects/Viaduct/>

### Project Site Map



**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**

**10. Project schedule summary:**

Activity	Anticipated Schedule	
	Start	Complete
Project planning / development	Currently: Central Waterfront, South Access, CSO reduction	2014
Design	Underway: Bored Tunnel (design/build), Mercer West (Final), North Access (60%), Seawall (60%)	2015
Bidding	Holgate to King Stage 3	2016
Construction	Underway: Holgate to King Stage 2, T1&T2, Bored Tunnel	2018

**11. Cost estimate**

Activity	Total	Current Year (2012)
Water	\$ 15.4 M	\$ 1.7 M *
DWW	\$ 35.2 M	\$ 2.2 M *
Solid Waste	\$ 0	\$ 0

\* Cash spending plan / flow estimates are subject to significant change and these budget numbers will be updated when we have a better understanding of CSO reduction costs and water system costs.

**12. SPU workplan**

- **Bored Tunnel** Begin design (March) & start construction (October–may include utility relocations and proactive replacements early in the process) <http://www.wsdot.wa.gov/Projects/Viaduct/>
- **Holgate to King** Stage 2 complete utility construction  
Stage 3 (“little h”) complete design and bid  
<http://www.wsdot.wa.gov/projects/sr99/holgatetoking/>
- **Mercer West** Do most of design; complete environmental  
[http://www.seattle.gov/transportation/mercerc\\_west.htm](http://www.seattle.gov/transportation/mercerc_west.htm)
- **Seawall** Begin design  
<http://www.cityofseattle.net/transportation/seawall.htm>
- **Waterfront Seattle** Begin project planning & development  
[http://www.seattle.gov/transportation/waterfront\\_design.htm](http://www.seattle.gov/transportation/waterfront_design.htm)
- **CWF CSO reduction** Select alternative, begin design

**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**

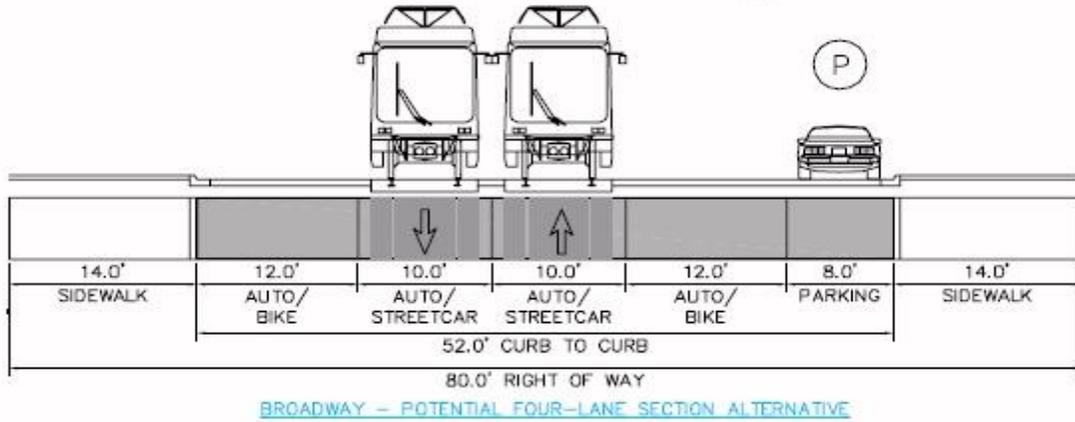
1. **Project Name** First Hill Streetcar
2. **SPU PM** Karen York, Bill Benzer
3. **SPU CM** Steve Friend
4. **SPU Water** Specifier:Eugene Mantchev/ Jon Ford; Engineer Review: Brian Eng
5. **SPU DWW** Specifier: Frank McDonald – Engineer Reviewer: Steve Resnick
6. **FOM Lead** Charles Oppelt – Clay Nelson
7. **SDOT PM** Ethan Melone/Jessica Murphy
8. **Other transportation agency PM**  
Sound Transit is providing funding to SDOT for the project.
9. **Project description**
  - Transportation project objectives: This SDOT project will connect First Hill to the regional light rail system stations on Capitol Hill and in the International District, and provide local transit connections between the Broadway, Pike/Pine, First Hill, Yesler Terrace, Little Saigon and Chinatown / International districts.
  - SPU scope of work: Planning, engineering reviews, design assistance to SDOT' consultants, construction inspection, crew support for utilities construction, customer service for the shut downs, closeout and coordination with other agencies.. SHA water and sewer work.
  - Link to the transportation project website:  
<http://www.seattlestreetcar.org/firsthill.asp>

# SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

## Project Site Map



**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**



**10. Project schedule summary**

Activity	Anticipated Schedule	
	Start	Complete
Project planning / development	9-2009	3-2010
Design	4-2010	1-2012
Bidding (GC/CM)	5-2010	2-2012
Construction	4-2012	6-2013

**11. Cost estimate**

Activity	Total	Current Year (2012)
Water	\$2.6 M	\$1,000,000
DWW	\$460,000	\$ 300,000

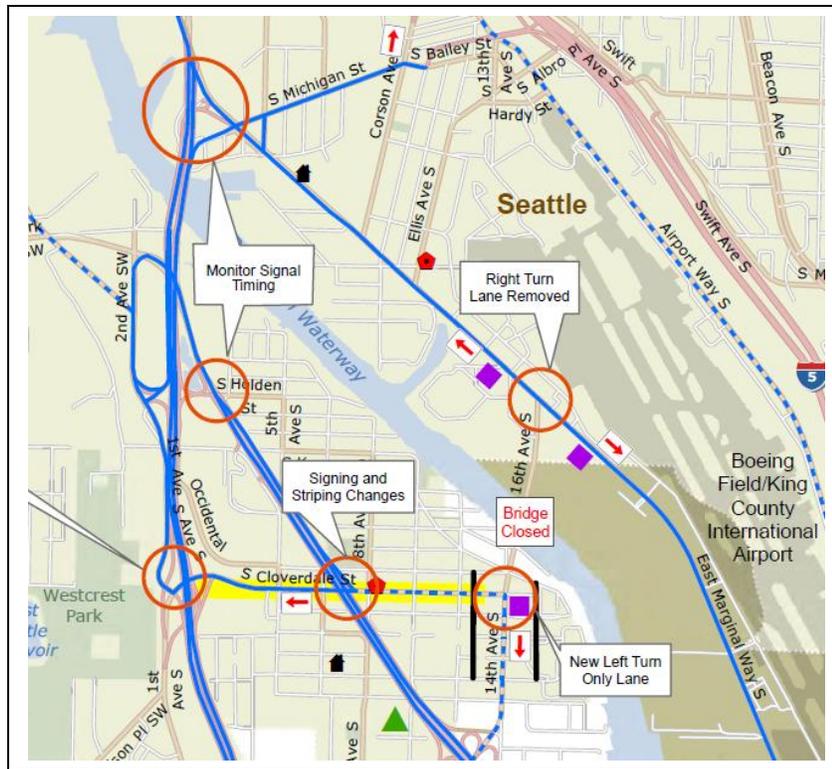
**12. SPU work plan**

- Completed
  - DWW LOB decisions
  - Major Project Decision—May 4 completed
  - Design—100% completed;
  - MACC-approved
  - MOA finalized
- In Progress*
- Construction start 2Q 2012
  - Field Operations construction support
  - SHA MOA Development

# SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** South Park Bridge Replacement
2. **SPU PM** Richard Smith
3. **SPU CM** Resident Engineer: Richard Averill
4. **SPU Water** Specifier: Eugene Mantchev; Engineer: Brian Eng
5. **SPU DWW** Specifier: Frank McDonald; Engineer: Liz Anderson
6. **FOM Lead** Charles Oppelt
7. **SDOT PM** John Arnesen—SDOT lead City department
8. **Other transportation agency PM** Tim Lane, King County
9. **Project description**
  - Transportation project objectives: Replace the 75+ year-old low-level South Park bascule bridge and approaches to provide a safe transportation bridge facility for the public and correct functional deficiencies.
  - SPU scope of work: Relocation of 10" and abandonment of 6" Boeing water services and vault, and relocation of 50' of 8" water main. Also, SPU review and inspection support for Stormwater Code compliance in Seattle ROW.
  - Link to the transportation project website:  
[www.kingcounty.gov/transportation/SouthParkBridge.aspx](http://www.kingcounty.gov/transportation/SouthParkBridge.aspx)

## Project Site Map



**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**

**10. Project schedule summary**

Project planning/development phase for several years consisted of an annual meeting. Projected schedule below for estimated three year construction phase.

Activity	Anticipated Schedule	
	Start	Complete
Project planning / development	4Q 2002	2Q 2008
Design	3Q 2008	December 2010
Bidding	January 11, 2011	March 29, 2011
Construction	April 18, 2011	December 2013

**11. Cost estimate**

Total bridge cost is estimated at \$120 million. SPU share of cost for Boeing water services and vault relocations to accommodate bridge approach roadway grading and realignment. SPU's cost share is based on the percentage of vault/Boeing services located between King County/Tukwila and City of Seattle (right-of-way line bisects vault). Water fund costs exceeded original estimates due to hazardous material preparation, monitoring and mitigation for crew safety.

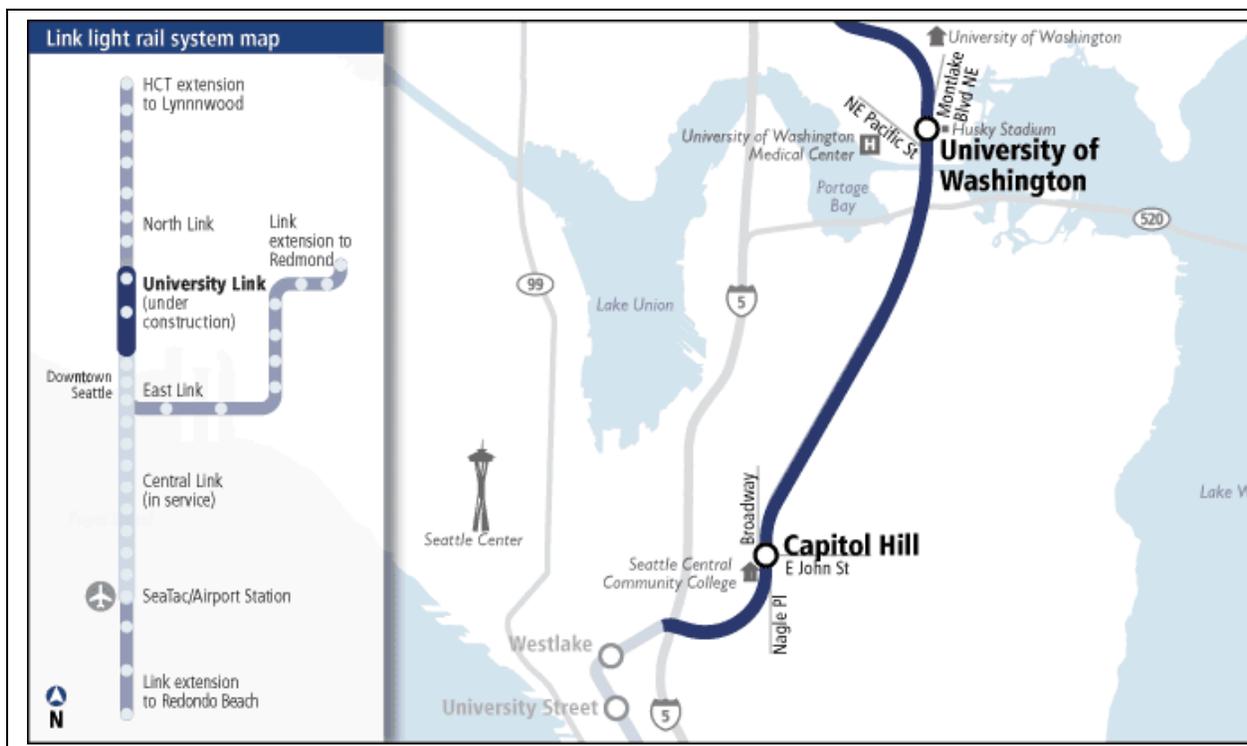
Activity	Total	Current Year (2012)
Water	\$330,000	\$45,000
DWW	\$15,000	\$7,000
Solid Waste		

**12. SPU workplan**

- Business cases (determine level needed for each LOB)
- Boeing water service/vault relocations and water main relocation was completed by SPU crews in November/December, 2011. Challenges due to potential haz mat issue planning and remediation and restrictive requirements (passports) for Boeing site access. Design and construction cost estimates completed and part of KC/SPU MOA.
- SPU water crews replaced approximately 50' of 8" DIP WM and installed new hydrant in 1Q, 2012.
- Cost information was compiled and submitted on May 25, 2012 to KC for reimbursement for their portions of work. Currently under review and discussion with KC.

## SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** Sound Transit Light Rail
2. **SPU PM** Richard Smith
3. **SPU CM** Supervising Engineer - John Summers; Resident - Dan Ellinger
4. **SPU Water** Specifier: Eugene Mantchev; Engineer: Joe Herold (Aziz Alfi)
5. **SPU DWW** Specifier: Frank McDonald; Engineer: Joe Herold (Liz Anderson)
6. **FOM Lead** Clay Nelson
7. **SDOT PM** Ethan Melone—SDOT lead City agency
8. **Other transportation agency PM** NA
9. **Project description**
  - Sound Transit Link Light Rail includes design and construction of following link segments: Central, University, North and East.
  - Transportation project objectives: Completion of integrated light rail transportation system.
  - SPU scope of work: Finish closing out Central Link with SPU Operations Center site restoration. University Link in active construction phase of 3.15 mile tunnel with stations at Capitol Hill and University of Washington Stadium area. SPU infrastructure including mitigation, protection and/or replacement.
  - Link to the transportation project website  
[www.SoundTransit.org/Projects-Home.xml](http://www.SoundTransit.org/Projects-Home.xml)



**Project Site Map**

**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**

**Project schedule summary**

Schedule below for University Link. Other segments (North and East) to be provided when formal design phase commences.

Activity	Anticipated Schedule – U Link	
	Start	Complete
Project planning / development	Completed	Completed
Design	Completed	Completed
Bidding	Completed	Completed
Construction	Winter, 2009	Spring, 2016

**10. Cost estimate**

Sound Transit University Link total project budget of \$1.9 Billion. SPU estimated share per each fund is noted below. All costs are reimbursed with exception for betterment upsizing of water main at Capitol Hill station location. About 600' of water main in Nagle Street to be upsized from 16" to 20". Upsizing cost estimate of \$50,000 in 2014.

**U-Link Contract:**

Activity	Total	Current Year (2012)
Water	\$900,000	\$145,293
DWW	\$700,000	\$96,862

**11. SPU workplan**

**U-Link:**

- Sound Transit station box excavations on Capitol Hill and UW Stadium areas are completed.
- E. Roanoke St. sewer replacement is occurring in Q3 & Q4 2012. ST will replace approx. 200' of 12" combined sewer in E. Roanoke St. west of Montlake Blvd..
- Sound Transit use of 3 TBM's (tunnel boring machines) began fall, 2010. Tunneling from UW Stadium station to Capitol Hill station and from Capitol Hill station to downtown tunnel. Tunneling is complete. Work is ongoing for U-Link Stations.
- Ongoing settlement monitoring for tunneling this year. Tunnel crossings of Montlake cut completed and Volunteer Park standpipe completed.
- Monitoring settlement data for any issues for the Volunteer Standpipe.
- Water crews very limited engagement in 2012.

**N-Link:**

- North Link design is underway. MOA for design phase has been signed via Citywide interagency agreement led by SDOT (City project lead) and was adopted by City Council in 1Q, 2012.
- Design coordination and review work occurring in the Northlink Roosevelt & Northgate Station areas. Site investigation work for utility condition assessment also occurring.

## SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** Mercer Corridor East Improvements
2. **SPU PM** Richard Smith
3. **SPU CM** Resident - Mike Morse; Supervising Engineer - Carlos Balansay
4. **SPU Water** Specifier: Jim McNerney; Engineer: Karen York
5. **SPU DWW** Specifier: Jeff Williams; Engineer: Liz Anderson
6. **FOM Lead** Charles Oppelt & Clay Nelson
7. **SDOT PM** Angela Brady
8. **Other transportation agency PM** NA
9. **Project description**
  - Transportation project objectives: Mercer Corridor East Transportation Project will widen Mercer Street between I-5 and Dexter Avenue North to create a two-way boulevard and reconstruct Valley Street.
  - SPU scope of work: Construct 9<sup>th</sup> Avenue sewer from Aloha Street to Republican Streets; replace water main in 9<sup>th</sup> Avenue; replace north/south water main crossings of Mercer Street; relocate Westlake/Aloha sewer pump station; protect and/or replace other utility infrastructure.
  - Link to the transportation project website:  
[mercerinfo@seattle.gov](mailto:mercerinfo@seattle.gov) and [www.seattle.gov/Transportation/ppmp\\_mercer.htm](http://www.seattle.gov/Transportation/ppmp_mercer.htm)

### Project Site Map



**SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION**

**10. Project schedule summary**

Activity	Anticipated Schedule	
	Start	Complete
Project planning / development	1980	5/8/06
Design	5/9/06	8/17/09
Bidding	3/10/10	5/5/10
Construction	8/9/10 (NTP)	10/30/13

**11. Cost estimate**

Budget based on approved Mercer Corridor East City funding agreements. 9<sup>th</sup> Avenue sewer claim settlement increased costs.

Activity	Total Budget	Current Year (2012)
Water	\$3,049,870	\$600,000
DWW	\$5,419,862	\$1,009,646
Solid Waste	0	0
Total	\$8,034,454	\$1,306,724

**12. SPU workplan for 2012**

- Aloha/Westlake sewer pump station relocation occurred in 4Q, 2011. Punch list corrections completed in 2Q, 2012.
- Prepared, advertised and awarded contract for joint sealing the 24" cast iron water main in Valley St. during 1Q 2012. Joint sealing contract was completed in May-June, 2012 timeframe. SPU crew work required for WM shutdown, pipe insertion, disinfection and final activation in June/early July, 2012.
- Water main and fire service work related to replacement of 8" WM in Fairview to occur in 2Q-3Q, 2012.

## SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

1. **Project Name** SR-520 Program
2. **SPU PM** Charlie Madden
3. **SPU CM** N/A
4. **SPU Water** Eugene Mantchev
5. **SPU DWW** Jeff Williams
6. **FOM Lead** Charles Oppelt (subject to change if needed)
7. **SDOT PM** Connie Zimmerman
8. **Other transportation agency PM** Julie Meridith (WSDOT)

9. **Project description**

The SR-520 Program extends along SR-520 from I-5 to Medina. This project replaces the existing SR-520 floating bridge, the Montlake interchange area and the Portage Bay section all the way to I-5. Currently, the SR-520 Program has funding to build the new SR-520 bridge and perform construction on the Eastside (Medina) portion. State funding is still needed for the Montlake and Portage Bay segments and to connect to I-5. The Evergreen Floating Bridge and Eastside portions are in construction through 2014.

WSDOT has an earlier phase of work that extends from the east edge of Foster Island to the Montlake Interchange that will be a connection from the new SR 520 bridge to the existing SR 520 roadway. This work will be funded by a Federal TIFIA loan and WSDOT is currently negotiating the final loan terms with the Federal Highway Administration. This segment is defined as the West Approach Bridge North Project (WABN). WSDOT's current schedule has this segment going into design in Q4 2012 and construction in Q1 2014.

Current Milestones:

- WSDOT issued final EIS in June 2011
- WSDOT opened bids for floating bridge DB contract in August 2011 to Kiewit General-Manson a Joint Venture for the Evergreen Point Floating Bridge and Eastside portion.
- Record of Decision issued August 2011.
- Draft agreement reached between University of Washington, Sound Transit and City for principles of working together.
- TIFIA Loan – October 2012.

SPU has affected facilities in the Montlake and Portage Bay segments.

Portage Bay: Affects distribution water mains, sanitary and storm sewers. Notable SPU facilities crossing SR-520 include: 42" and 20" water mains.

Montlake: Affects distribution water mains, sanitary and storm sewers. Key facilities include: 54" transmission water main, and 21" and 24" combined sanitary and storm sewers.

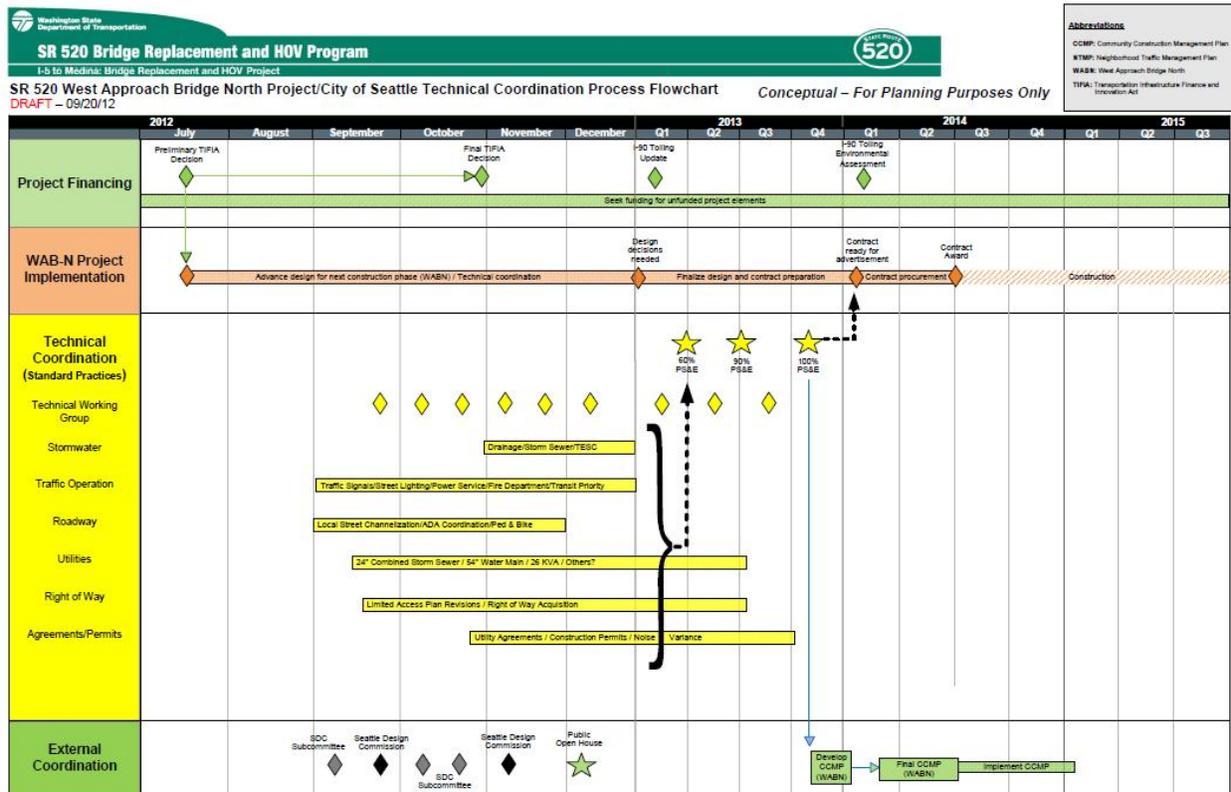
Link to project website: <http://www.wsdot.wa.gov/Projects/SR520Bridge/>

# SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

## Overall Project Schedule:



## West Approach Bridge North Schedule (WABN):



# SPU TRANSPORTATION PROJECT COORDINATION MEETINGS PROJECT BACKGROUND INFORMATION

## a. Cost estimate

State legislature budget in 2009 for the SR 520 is \$4.65 Billion.

There is no SPU component identified to-date. I-5 to Foster Island segment is unfunded (valued at approximately \$2 billion)

10. Current year cash flow estimate TBD

11. SPU workplan TBD

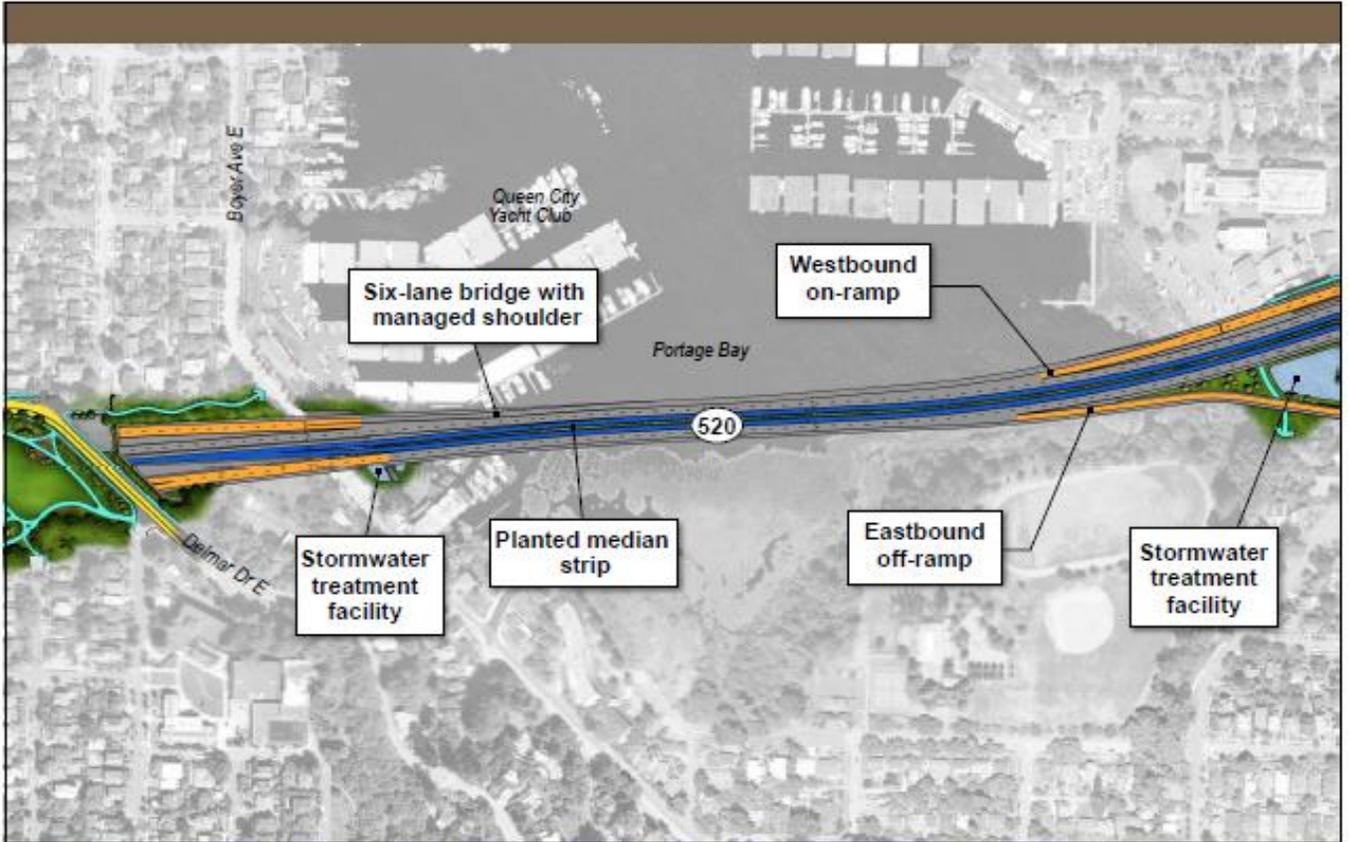
12. Project Site—Conceptual Layout:

## I-5 Interchange



SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION

# Portage Bay Bridge



Rendering of Portage Bay Bridge looking east



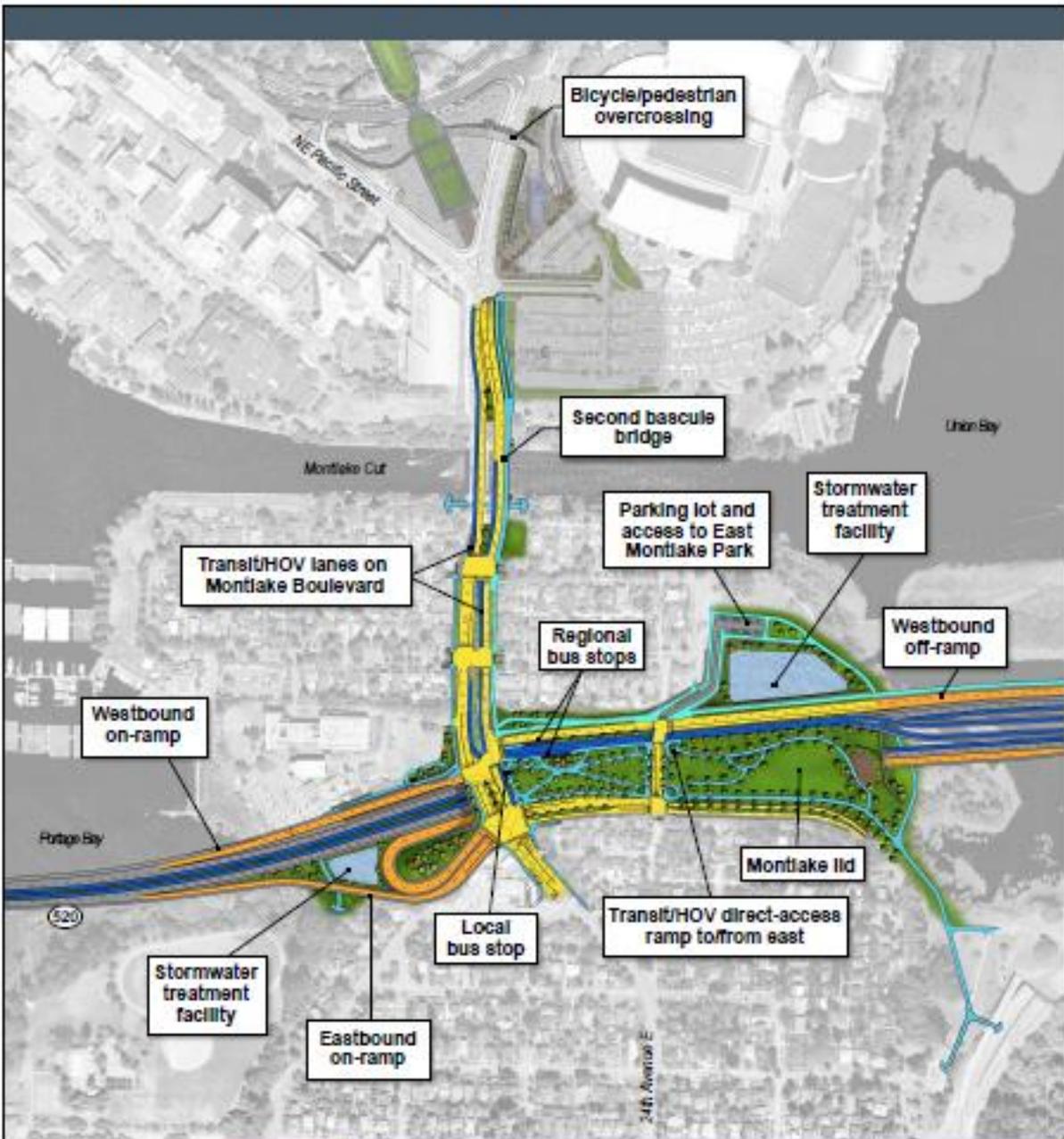
**LEGEND:**

- General-purpose lane (SR 520)
- Existing general-purpose lane (local)
- General-purpose lane (local)



SPU TRANSPORTATION PROJECT COORDINATION MEETINGS  
PROJECT BACKGROUND INFORMATION

# Montlake Interchange



Additional refinement will occur through the City of Seattle design process per legislation (ESSB 6302).

- LEGEND:**
- General-purpose lane (SR 520)
  - General-purpose lane (local)
  - Transit/HOV lane
  - On- and off-ramp
  - Bicycle and pedestrian path



# Westbound Approach Bridge North Layout

