

SR 520 Program Update

Seattle City Council – Sept. 30, 2013

Julie Meredith
SR 520 Program Director



Lynn Peterson
Secretary of Transportation



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SR 520 Engineering Manager



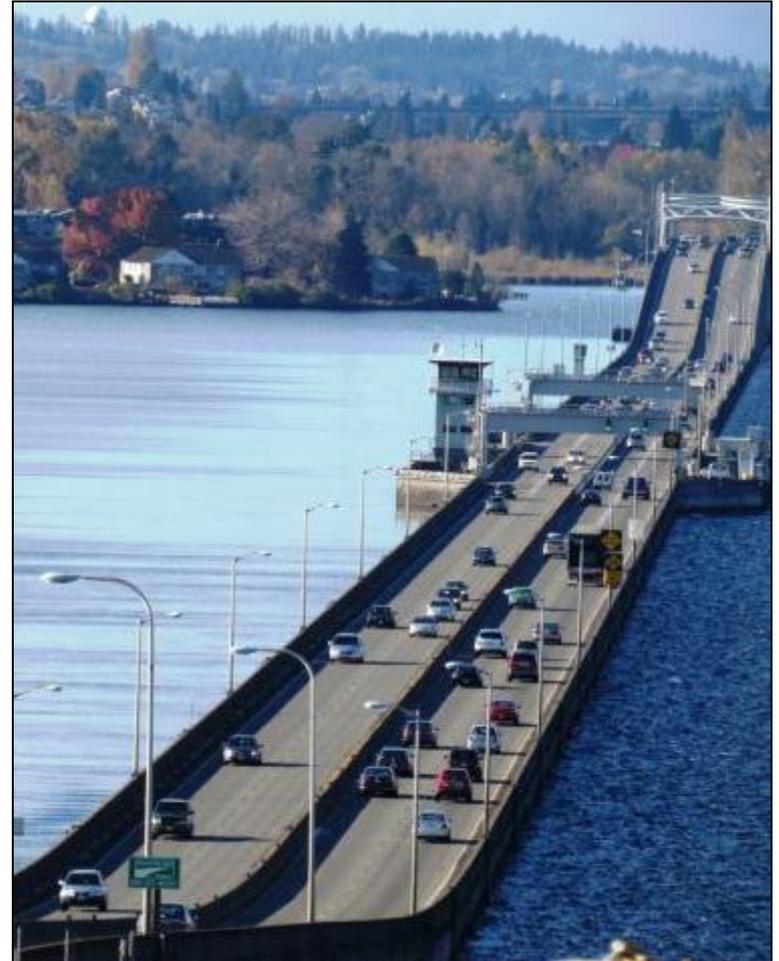
Daniel Babuca
SR 520 Engineering Manager



SR 520 Program Update
Seattle City Hall, Council Chambers
Sept. 30, 2013

Presentation Outline

- SR 520 Program overview
- SR 520 construction underway
- WSDOT/City of Seattle 2011 Memorandum of Understanding commitments update
- West Approach Bridge North Project



View of the SR 520 floating bridge, looking west from Medina.

1963 – 2013: 50th Anniversary of the SR 520 Bridge Opening



Photo of the SR 520 bridge opening event on Aug. 28, 1963. Photo courtesy of MOHAI.



Photo of the SR 520 bridge opening event on Aug. 28, 1963. Photo courtesy of MOHAI.



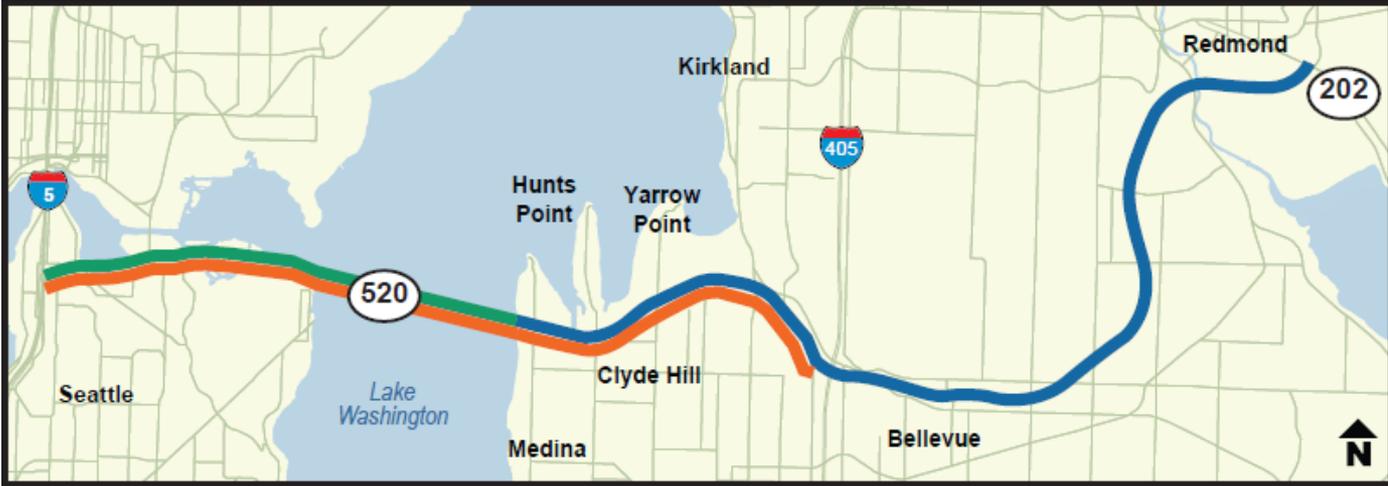
Visualization of the new SR 520 floating bridge. The new bridge will feature a transit/HOV lane in each direction, a bicycle/pedestrian path, and wider, safer shoulders.

Web site: <http://520history.org/>

SR 520 Program description

The SR 520 Bridge Replacement and HOV Program will replace the Portage Bay and Evergreen Point bridges and improve the existing roadway between I-5 in Seattle and SR 202 on the Eastside.

- I-5 to Medina: Bridge Replacement and HOV Project** – Replaces the SR 520 floating bridge and landings, and interchanges and roadway between I-5 and the eastern shore of Lake Washington.
- Medina to SR 202: Eastside Transit and HOV Project** – Completes and improves the transit and HOV system from Evergreen Point Road in Medina to the SR 202 interchange in Redmond.
- Lake Washington Congestion Management Project** – Implements tolls on the existing SR 520 floating bridge, and activates Smarter Highways features from I-5 to I-405.
- Pontoon Construction Project** – Advances pontoon construction to restore the floating section of the SR 520 bridge in the event of a catastrophic failure and to store those pontoons until needed.



Program costs and funding



SR 520 Program budget (2009): \$4.65 billion

SR 520 Program cost estimate (Oct. 2012): \$4.13 billion

SR 520 funded program: \$2.72 billion

Funded projects:

- West Approach Bridge North
- Floating Bridge and Landings
- Eastside Transit and HOV
- Pontoon Construction Project

Construction Update

Job Creation

- SR 520 projects have created hundreds of jobs around the state.
 - Eastside Transit and HOV Project: 432 jobs
 - Floating Bridge and Landings Project: 282 jobs
 - Pontoon Construction Project: 320 jobs
- Skilled construction trades include:
 - Carpenters
 - Concrete workers
 - Crane operators
 - Electricians
 - Iron workers
 - Laborers
 - Machine operators
 - Painters
 - Truck drivers
 - Welders



Construction Update

Eastside Transit and HOV Project



Pictured above is a rendering of the completed Evergreen Point Road lid. The new Eastside corridor will feature three community-connecting lids with improved transit facilities and bicycle/pedestrian connections.



Construction update

Pontoon Construction Project



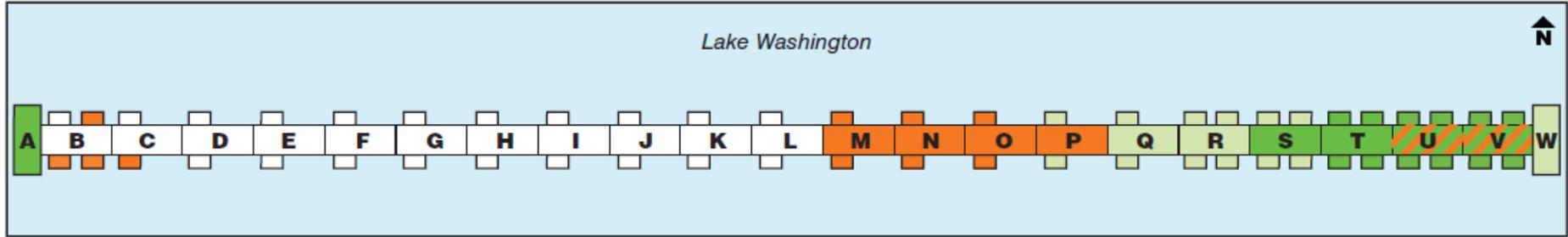
Aerial view of the casting basin during Cycle 3 construction in Aberdeen, WA. Cycle 3 pontoons are expected to float out in fall 2013. Photo credit: Soundview Aerial Photography.



Photos of Cycle 3 pontoons under construction in Aberdeen, WA.

SR 520 Pontoons – Status and Locations

Updated: Sept. 10, 2013



Note: not to scale

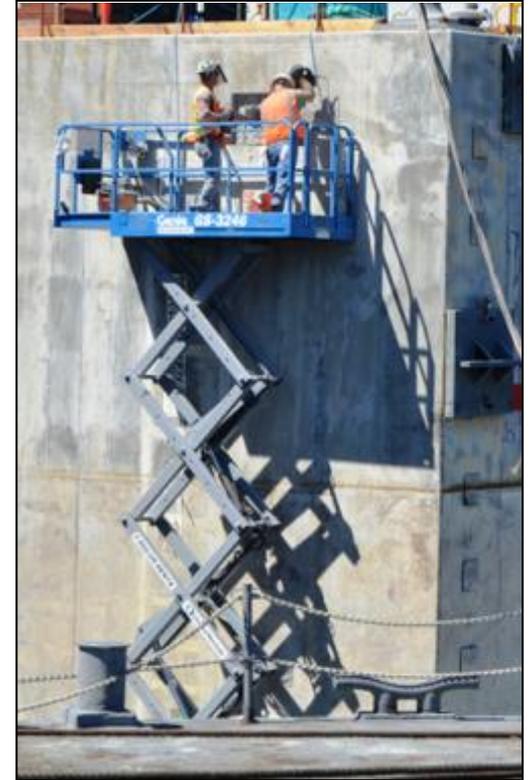
Pontoon status:

On Lake Washington	Repairs underway on Lake WA	In transit / pending transit
Temporarily moored	Under construction	Future construction

- 32 pontoons have been constructed to date.
- 77 total pontoons are needed to build the new floating bridge.
- 17 pontoons are currently on Lake Washington.
- Construction continues on the next six pontoons in Aberdeen and the next eight pontoons in Tacoma.

Pontoon Repairs: Ensuring Quality Results

- Goal: Ensure a 75-year design life for SR 520 bridge pontoons
- Repair plan includes:
 - Epoxy injections and crystalline waterproofing
 - Transverse post-tensioning
 - Carbon-fiber wrapping
- Experts in concurrence with repair plan:
 - SR 520 Pontoon Expert Review Panel
 - Ben C. Gerwick, Marine and Bridge Engineering Firm
- WSDOT engineers inspected completed repairs to ensure compliance with the plan prior to float-out from drydock facilities in Seattle and Portland.
- WSDOT has conducted extensive outreach to the public and media.



Crews conduct repairs on Pontoon T at a drydock facility in Portland, Ore. in July 2013.

Construction Update: Floating Bridge and Landings Project



Construction is taking place around the state, including new pontoons in Tacoma, precast elements in Kenmore, and building the new bridge on Lake Washington.



Construction of box columns on cross Pontoon A on Lake Washington, near Medina.



Float-out of third cycle of pontoons in Tacoma in July 2013.



All 58 anchors for the new floating bridge have been built and placed in Lake Washington.

Construction Update: West Connection Bridge

- 1,330 foot-long bridge joining the new floating bridge to the existing SR 520 roadway
- Major project elements:
 - Building columns
 - Widening and building piers
 - Widening and building bridge spans
- Key outreach activities:
 - Pre-construction meeting and notification
 - Ongoing coordination with nearby property owners
 - Community Construction Management Plan and construction updates
 - 24-hour construction hotline



Overview of West Connection Bridge construction elements in relation to the new floating bridge and existing SR 520.



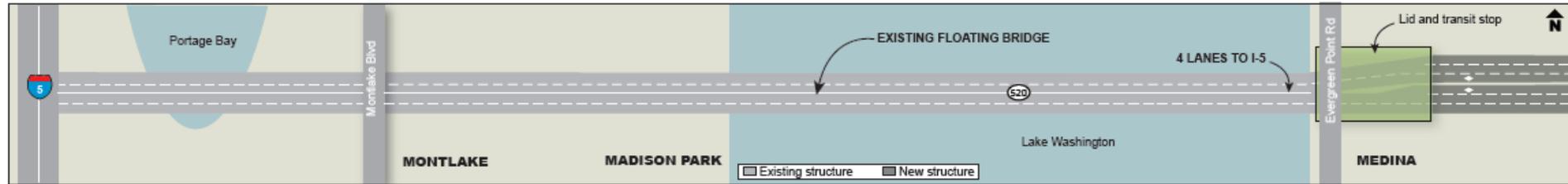
Crews pump concrete from the westbound lanes of SR 520 for large column foundations in Lake Washington.

SR 520 Lane Configuration with phased Project Completion

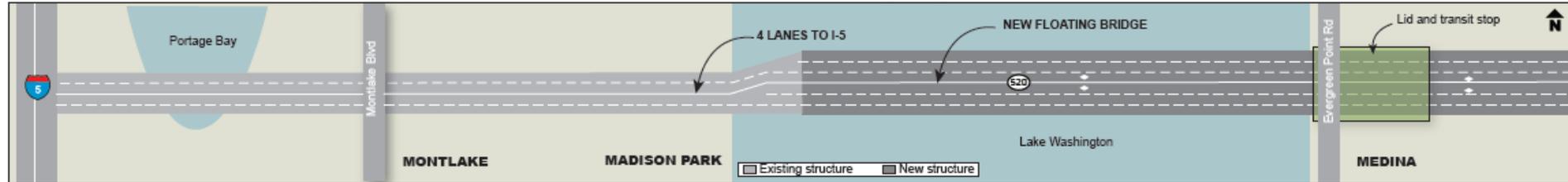
Note: Illustration of SR 520 mainline operations. Ramps and interchanges are not detailed.

September 2013

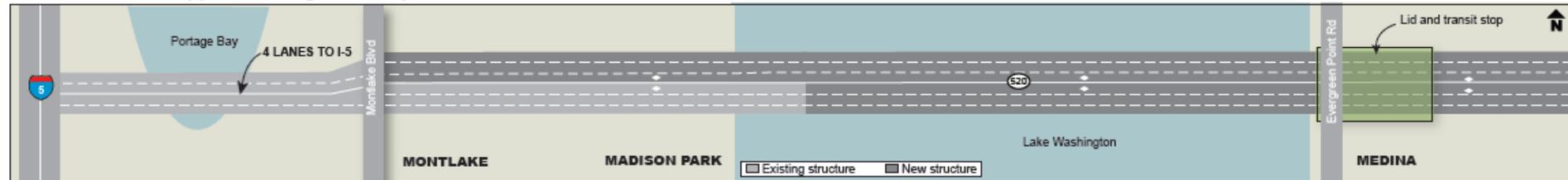
Mid 2014: Eastside Open To Traffic - 6 Lanes to Evergreen Point Road



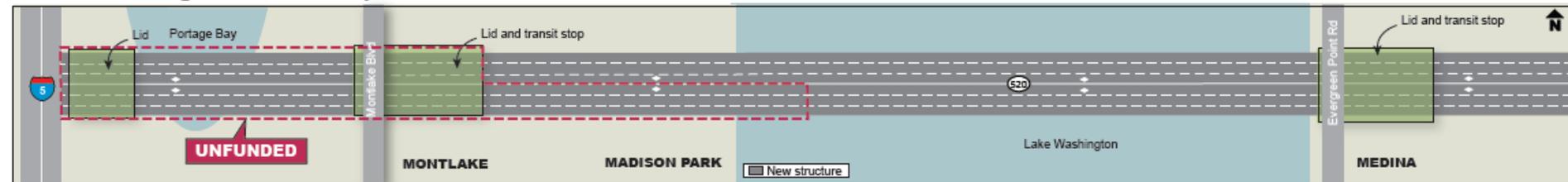
Late 2015 - Early 2016: Floating Bridge Open To Traffic - 6 Lanes to the West End of the Floating Bridge



Late 2016: West Approach Bridge North Open To Traffic - 6 Lanes to Montlake



With Full Funding: Full Corridor Complete - 6 Lanes to I-5



New tool: The Orange Page



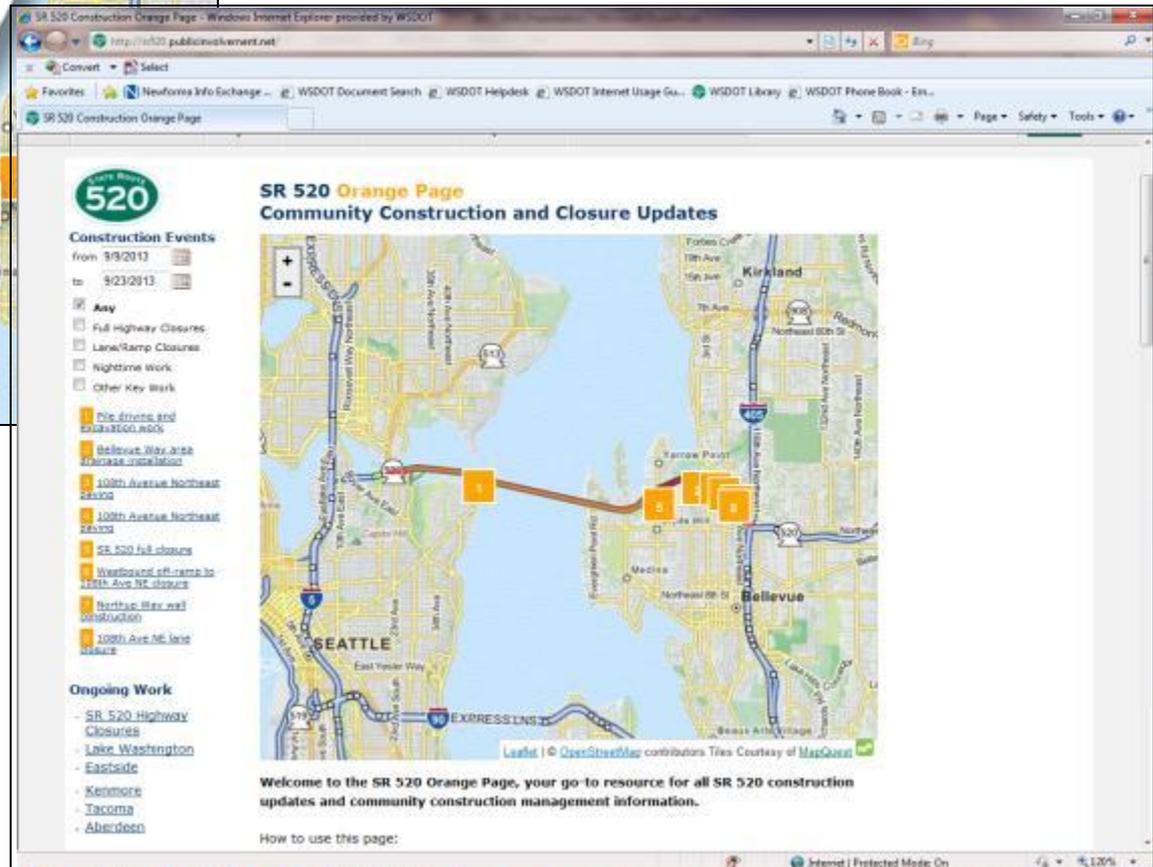
TRY THE NEW
OrangePage

STATE ROUTE 520

Your go-to source for SR 520 construction and closure information

Web site:

<http://sr520.publicinvolvement.net/>



SR 520 Orange Page
Community Construction and Closure Updates

Construction Events
from 3/9/2013
to 9/23/2013

- Any
- Full highway Closures
- Lane/Ramp Closures
- Nighttime work
- Other Key Work

- Die trucks and trucks/semi-trucks
- Bellevue Way area drainage installation
- 100th Avenue Northeast 28,000
- 100th Avenue Northeast 28,000
- SR 520 full closure
- Westbound off-ramps to 100th Ave NE stoppage
- North on Bellevue Way and construction
- 100th Ave NE lane closure

Ongoing Work

- SR 520 Highway Closures
- Lake Washington
- Eastside
- Kenmore
- Tacoma
- Aberdeen

Welcome to the SR 520 Orange Page, your go-to resource for all SR 520 construction updates and community construction management information.

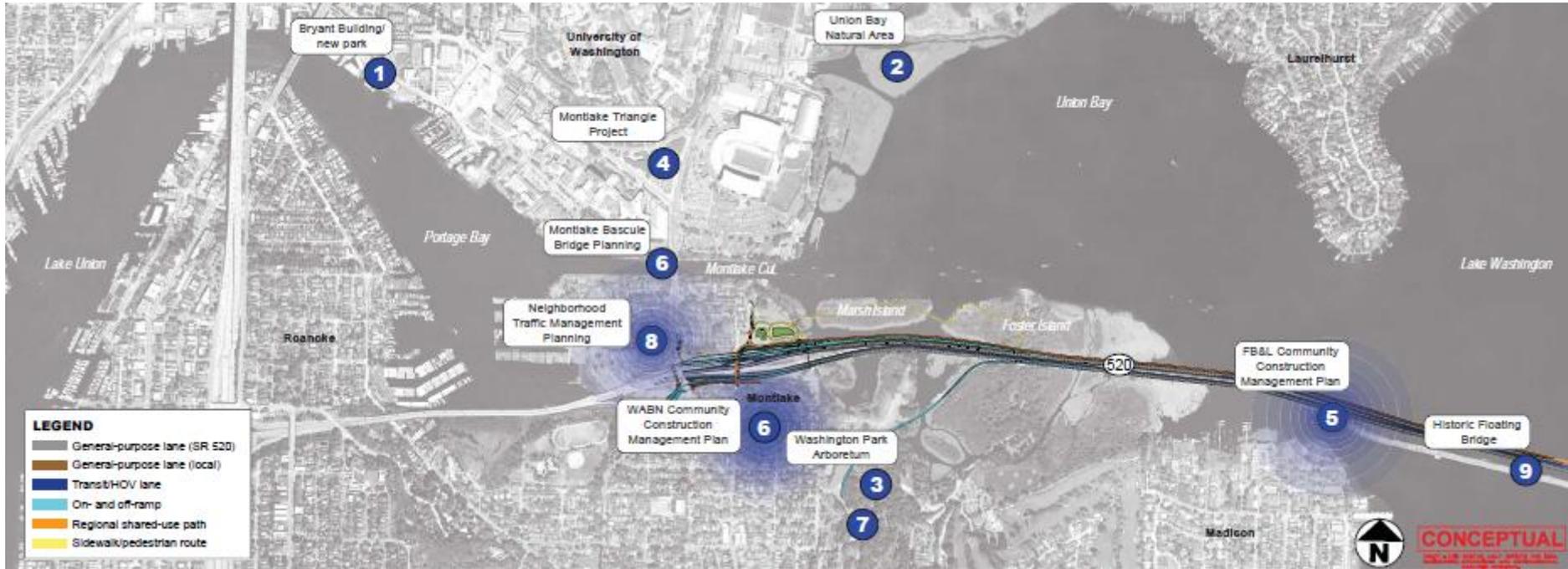
How to use this page:

2011 Memorandum of Understanding: Status update

Outlined a series of activities, including the following:

- ✓ **Seattle Community Design Process**
- ✓ **Second Bascule Bridge triggers**
- **Neighborhood Traffic Management Planning:**
 - In progress, Community Advisory Group meeting in late 2013 to discuss draft; finalize prior to WABN construction
- **Community Construction Management Planning including Tree and Vegetation Management Plan:**
 - ✓ **March 2012:** Floating Bridge and Landings complete
 - ✓ **August 2013:** Amended to include West Connection Bridge Project
 - **Spring 2014:** Amend for West Approach Bridge North Project
- **Consult on design and construction as necessary:**
 - ✓ Ongoing technical team and management coordination during WABN design development

Funded environmental mitigation and community benefits



Environmental (Parks, Natural Resources)

1. New public park at Bryant Site
2. Union Bay Natural Area restoration
3. Washington Park Arboretum improvements:
 - Multi-use trail
 - Arboretum Creek
 - Azalea Way Pond
 - Arboretum Waterfront Trail
 - Foster Island

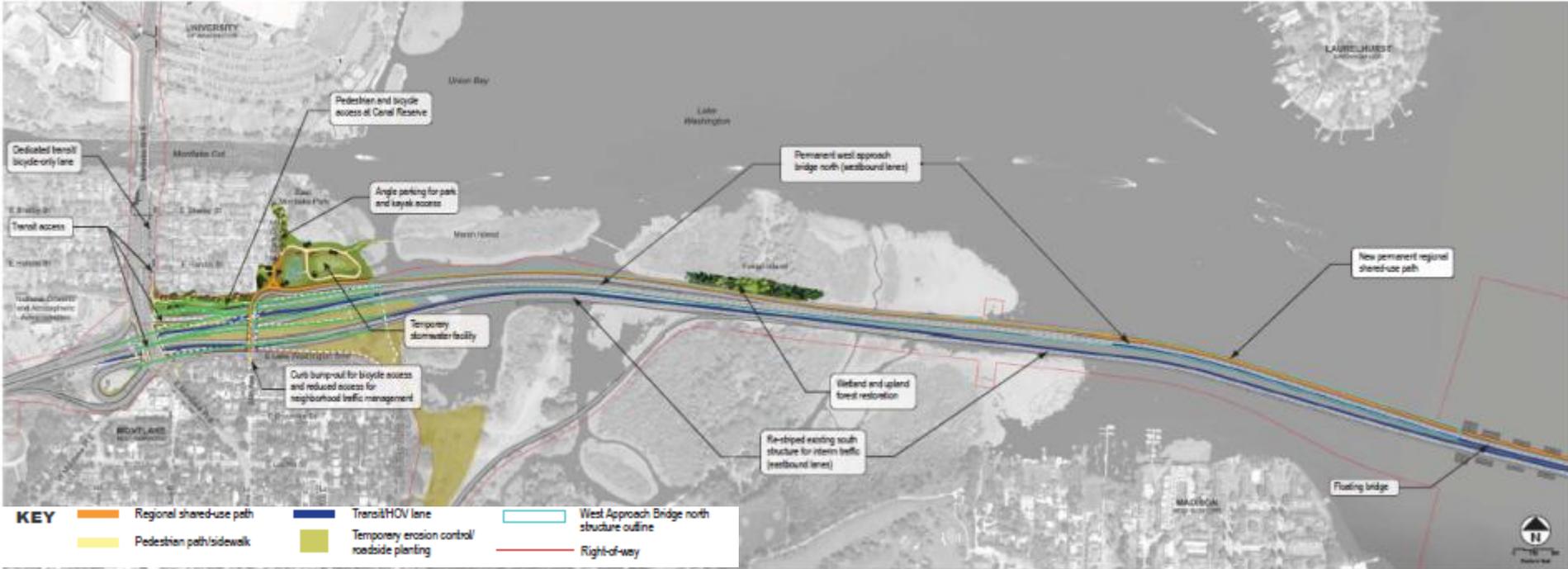
Planning and Built Environment

4. Montlake Triangle Project
5. Community Construction Management Plans for funded construction phases
6. Second Montlake Bridge planning process
7. Washington Park Arboretum traffic calming
8. Neighborhood Traffic Management Planning
9. Documentation of floating bridge as historic resource

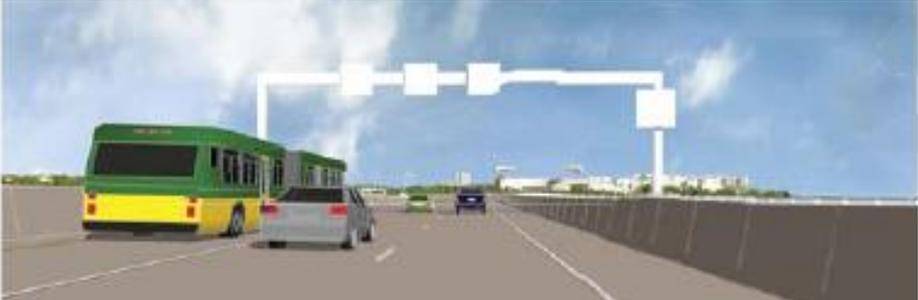
Additional environmental mitigation (not pictured)

- South Lake Washington shoreline restoration
- Cedar River Elliott Bridge Reach restoration
- East Approach shoreline restoration
- Bear Creek restoration

West Approach Bridge North Project



Looking west



Looking west

West Approach Bridge North: Key Milestones

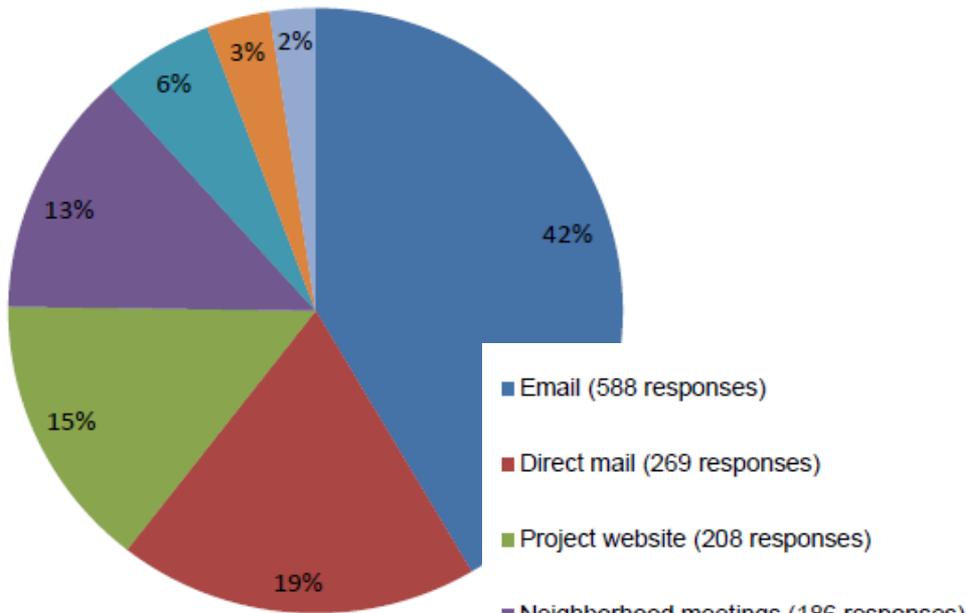
- **June – July:** Hosted online construction survey and community drop-in sessions
- **September:**
 - Hosted Limited Access Control Hearing
 - Acquired MOHAI property
 - Initiated City of Seattle permits:
 - Shoreline Master Use Permit
 - Temporary Noise Variance Permit
 - Street Use Permit
- **October:** 90% design review
 - Ongoing coordination with the City of Seattle
- **December:**
 - Finalize design, agreements and secure mitigation sites
- **2014:**
 - Spring: Advertise for construction
 - Summer: Award contract and begin construction



WSDOT technical staff talks with a community member about the West Approach Bridge North Project.

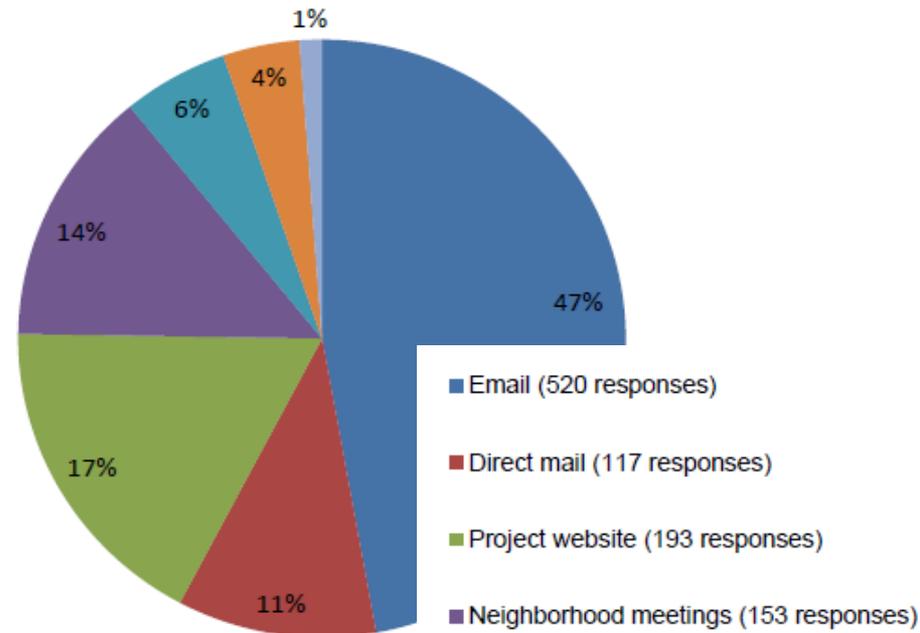
Summer outreach: What we heard

How would you like to receive information?



Total responses received: 1,416
(Note: Participants chose multiple options)

How would you like to provide feedback?



Total responses received: 1,103
(Note: Participants chose multiple options)

Continuing public outreach through construction

- **Pre-Construction outreach:**
 - **December 2013:** Community Advisory Group meeting on the Neighborhood Traffic Management Plan and Montlake bicycle, pedestrian and transit studies
 - **Early 2014:** SR 520 Program Open House
 - Ongoing newsletters, web and email updates
- **Outreach during construction:**
 - **Summer 2014:** After contract is awarded, Pre-Construction Open House
 - Implement Community Construction Management Plan
 - Host monthly contractor construction status meetings targeting those who live and work closest to the corridor



WABN Engineering Manager discussing project design with drop-in attendees.

Questions?

For more information:

Visit: www.wsdot.wa.gov/projects/SR520Bridge

E-mail: SR520Bridge@wsdot.wa.gov

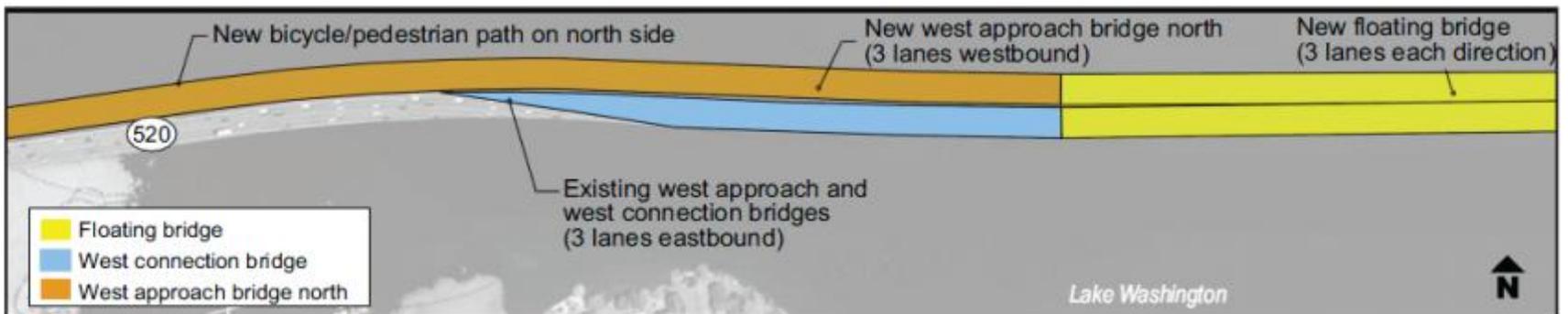
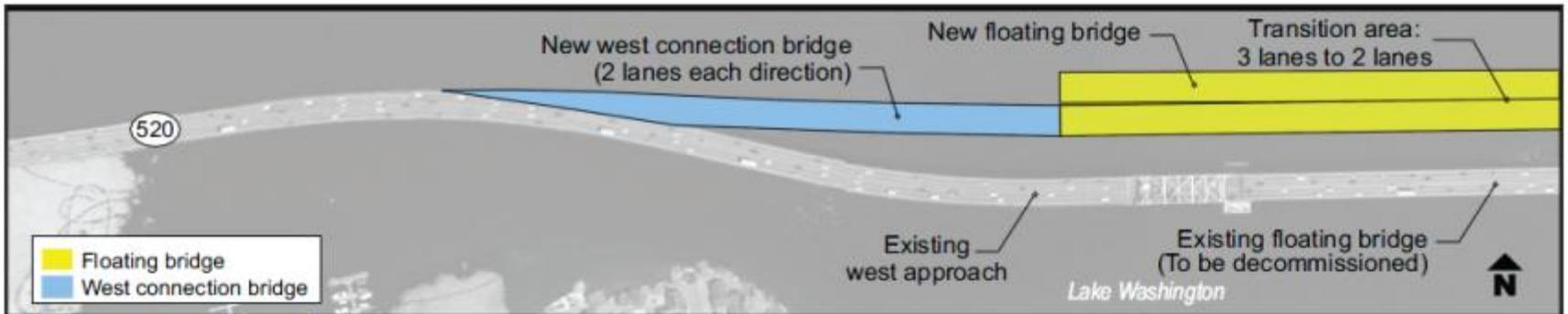
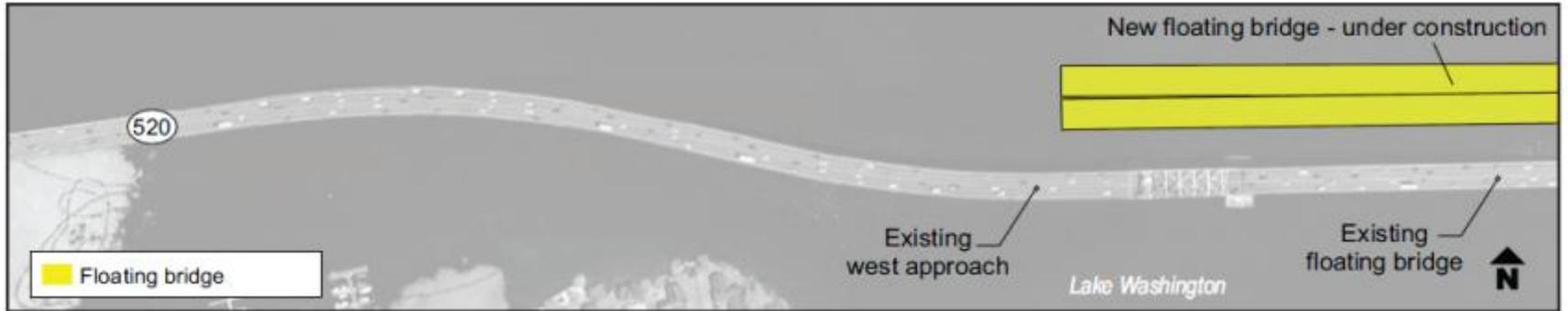
Call: 1-888-520-NEWS (6397) or 206-770-3568

Mail: Julie Meredith, P.E., Director
Washington State Department of Transportation
SR 520 Bridge Replacement and HOV Program
999 3rd Avenue, Suite 900
Seattle, WA 98104

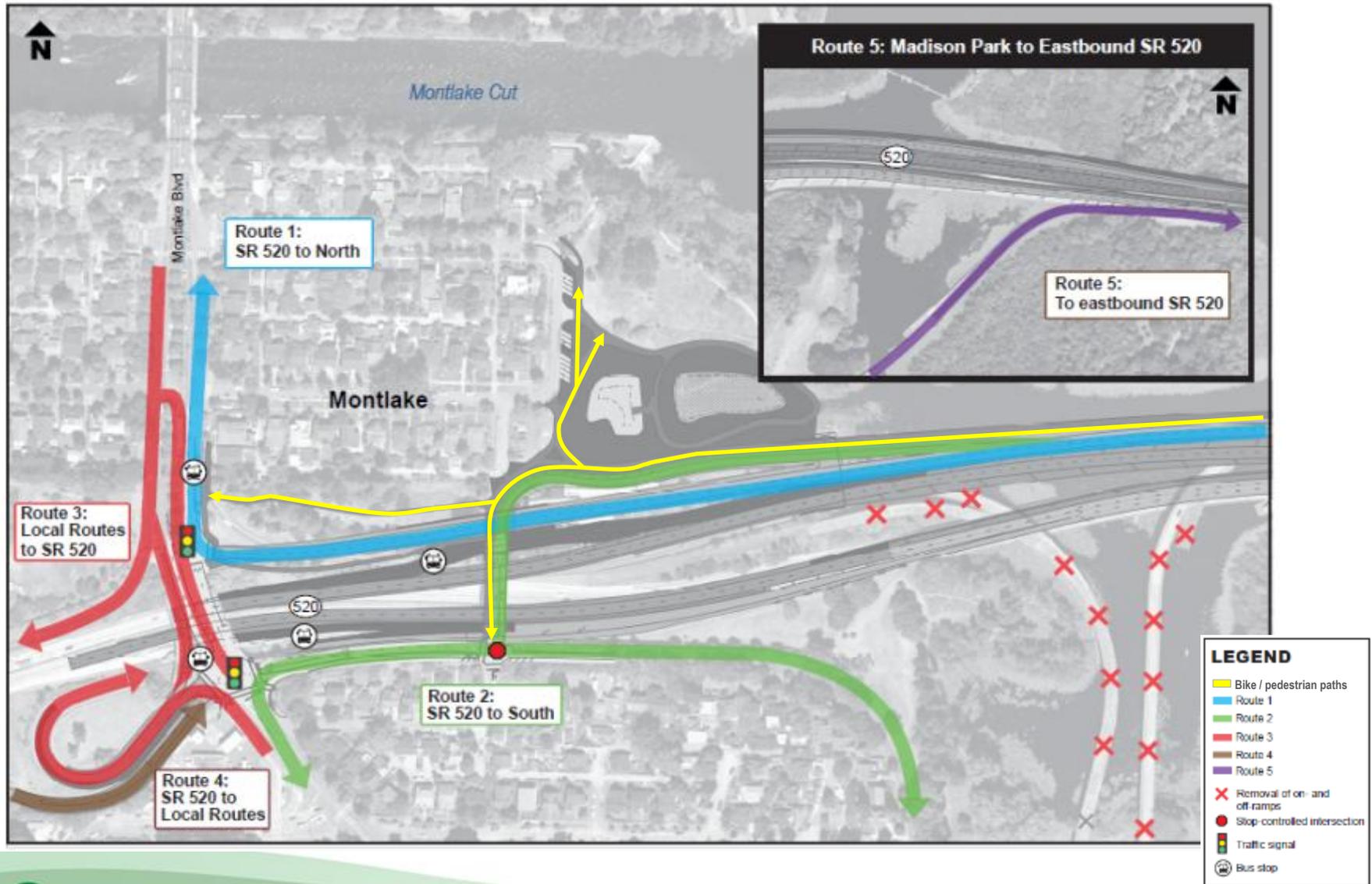


Back Pocket Slides

How the new bridges will connect

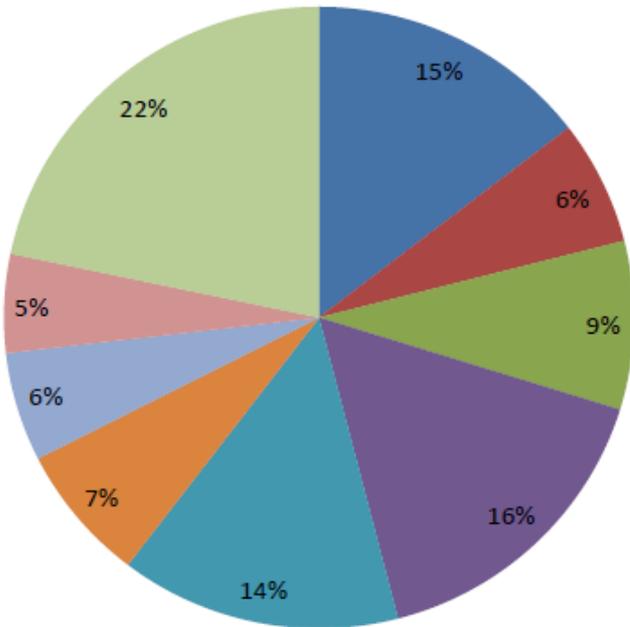


Bicycle, pedestrian, and vehicle connections



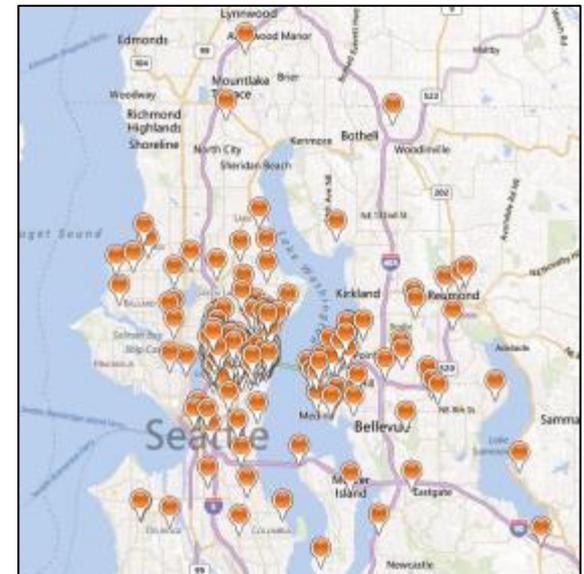
Summer outreach: Who we heard from

Location of residence or place of employment



- Montlake: Shelby-Hamlin area (108 responses)
- Montlake: Lake Washington Boulevard area (48 responses)
- Montlake: other area (65 responses)
- Madison Park (120 responses)
- North Capitol Hill (107 responses)
- Laurelhurst (53 responses)
- Portage Bay/Roanoke Park (42 responses)
- University District/University of Washington (38 responses)
- Other (161 responses)

Total responses received: 742



WSDOT received over 700 responses and heard from a wide-variety of respondents near and far from the SR 520 corridor.