

SR 520 Program Transportation Commission

Oct. 15, 2013

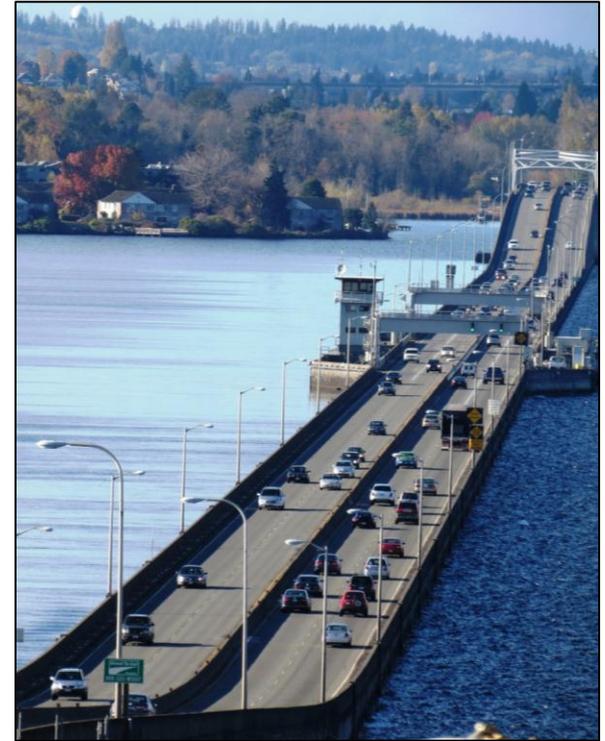


Julie Meredith
SR 520 Program Director

SR 520 Program Update
Commission Boardroom, Olympia, WA
Oct. 15, 2013

Presentation Overview

- SR 520 Program overview
- Construction updates:
 - Eastside
 - Floating Bridge
 - Pontoons
- Upcoming construction:
 - West Approach Bridge North
- Questions and answers

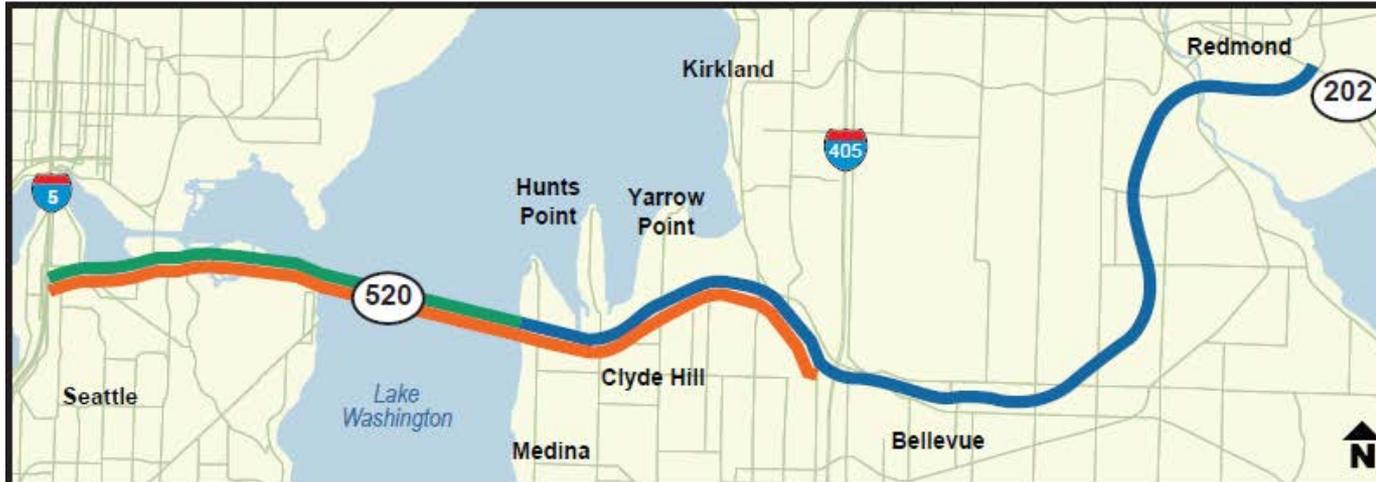


View of the SR 520 floating bridge, looking west from Medina.

SR 520 Program Description

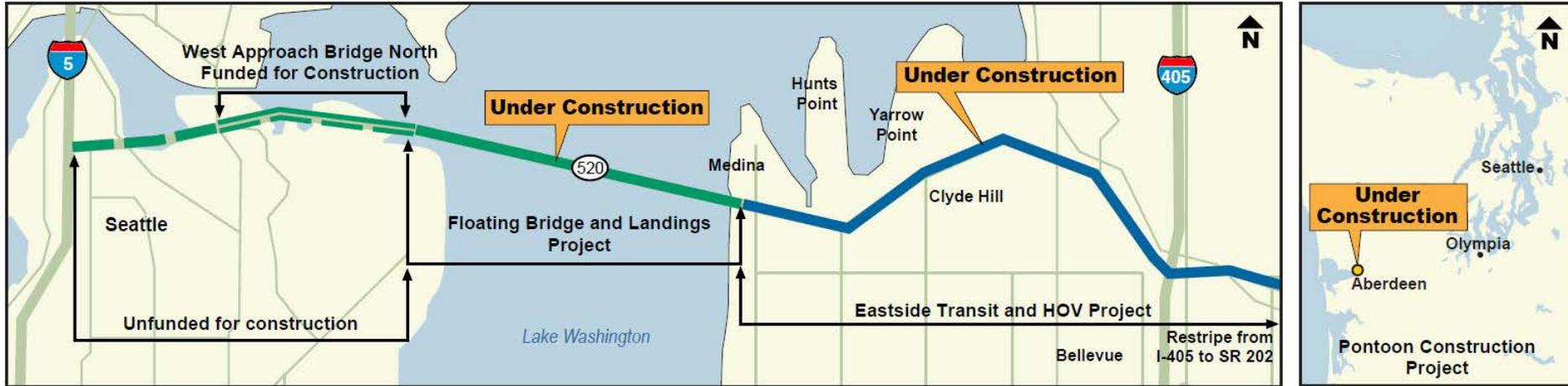
The SR 520 Bridge Replacement and HOV Program will replace the Portage Bay and Evergreen Point bridges and improve the existing roadway between I-5 in Seattle and SR 202 on the Eastside.

-  **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.



What Is Funded for \$2.72 Billion?

Program map



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

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

Current SR 520 construction:

- Eastside transit and HOV improvements.
- The floating bridge and landings.
- Pontoon construction in Grays Harbor.

Upcoming SR 520 construction:

- West Approach Bridge North
(enabled by federal TIFIA loan)

Next steps:

- I-5 to the west end of the floating bridge *(\$1.4 billion needed for construction)*

SR 520 Program Budget Update

Program overview

Program cost estimate	\$4.12 billion
Funding secured to date	\$2.72 billion
Remaining funding needed	\$1.40 billion

Expenditures to date (July 2013)

Total expenditures (July 2013)	\$1.37 billion
Construction costs	\$922 million
Preliminary engineering, environmental, right of way	\$448 million

Reserve budget (July 2013)

Reserve budget total	\$250 million
Reserve budget expended	\$150 million
Reserve budget remaining	\$100 million

SR 520 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: 252 jobs
 - Pontoon Construction Project: 320 jobs
 - Total: 1,025 jobs (as of Oct. 7, 2013)
- 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.

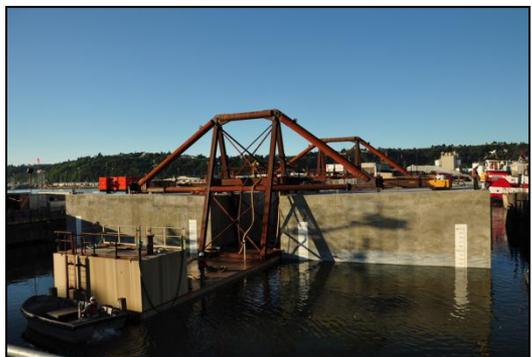
Construction Update: Floating Bridge and Landings Project



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 columns on cross Pontoon A on Lake Washington, near Medina. Photo taken Sept. 26, 2013.



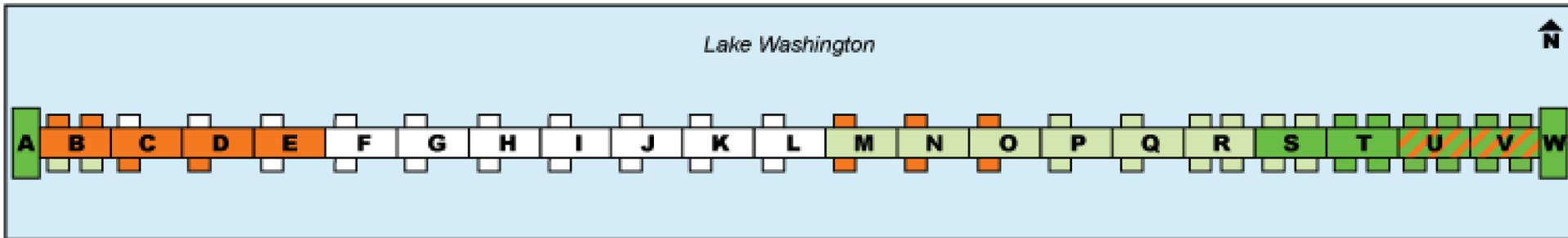
Float-out of third cycle of pontoons in Tacoma in July 2013.



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

SR 520 Pontoons – Status and Locations

Updated: Oct. 8, 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

- 38 pontoons have been constructed to date.
- 77 total pontoons are needed to build the new floating bridge.
- 18 pontoons are currently on Lake Washington.
- On Oct. 5, 2013, we floated out the latest six pontoons from Aberdeen.

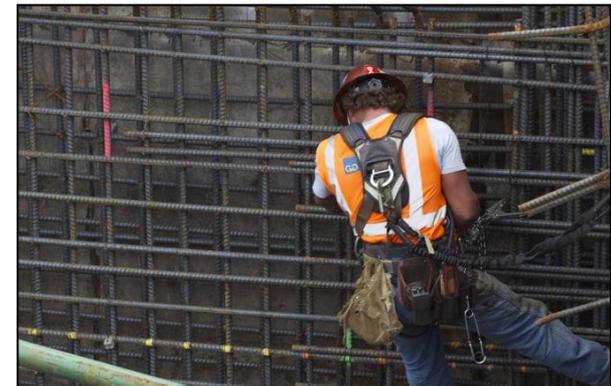
Pontoon Repairs: Ensuring Quality Results

- 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 (commissioned by WSDOT)
 - Ben C. Gerwick, Marine and Bridge Engineering Firm (commissioned by KGM)
- 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.

Construction update: Pontoon Construction Project



On Oct. 5, 2013, crews floated the third cycle of pontoons from their casting basin in Aberdeen, Wash. The cycle included four large longitudinal pontoons and two smaller supplemental pontoons.



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

West Approach Bridge North: Key Features



Future-Compatibility

- Advances the next phase of full corridor build-out
- Accommodates potential future light rail
- Incorporates ongoing community input
- Interim design at Montlake does not preclude future decisions

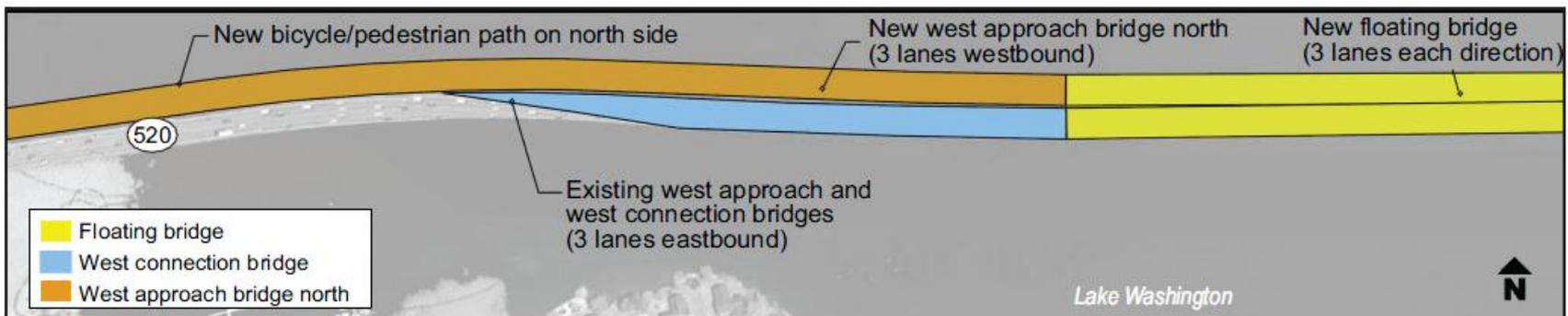
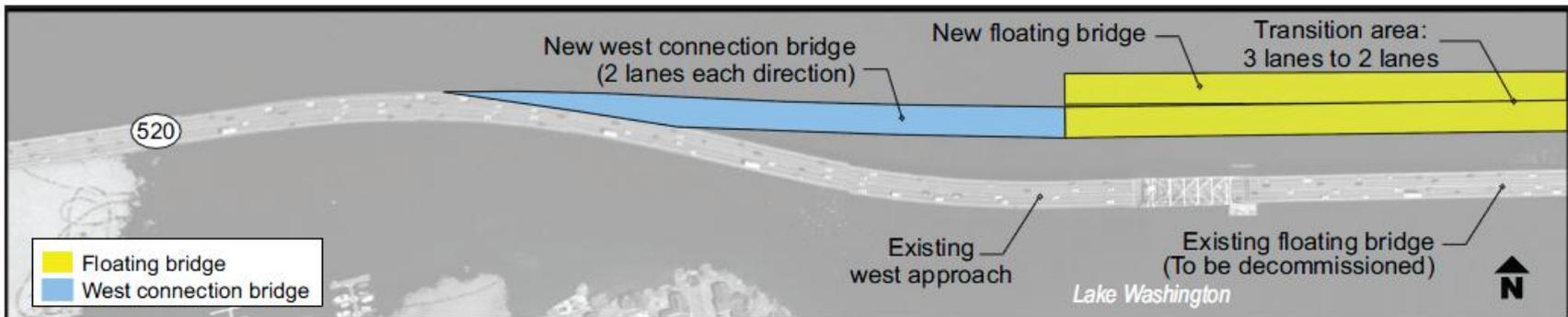
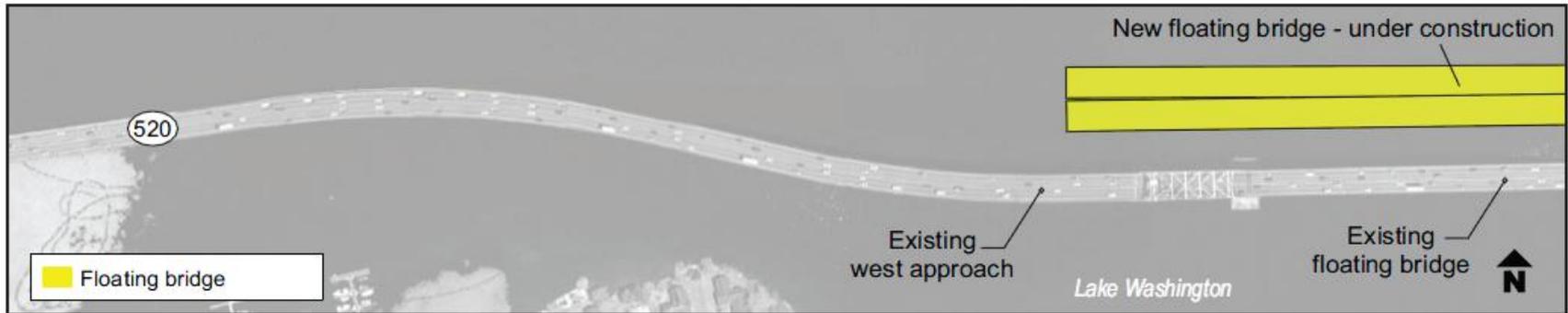
Bridge and Corridor Safety

- Addresses next major vulnerable structure on the west side
- Incorporates corridor and local traffic mobility improvements
- Extends a 6-lane corridor from Redmond to Montlake vicinity
- Improves safety for pedestrians and bicyclists

Community and Environmental Benefits

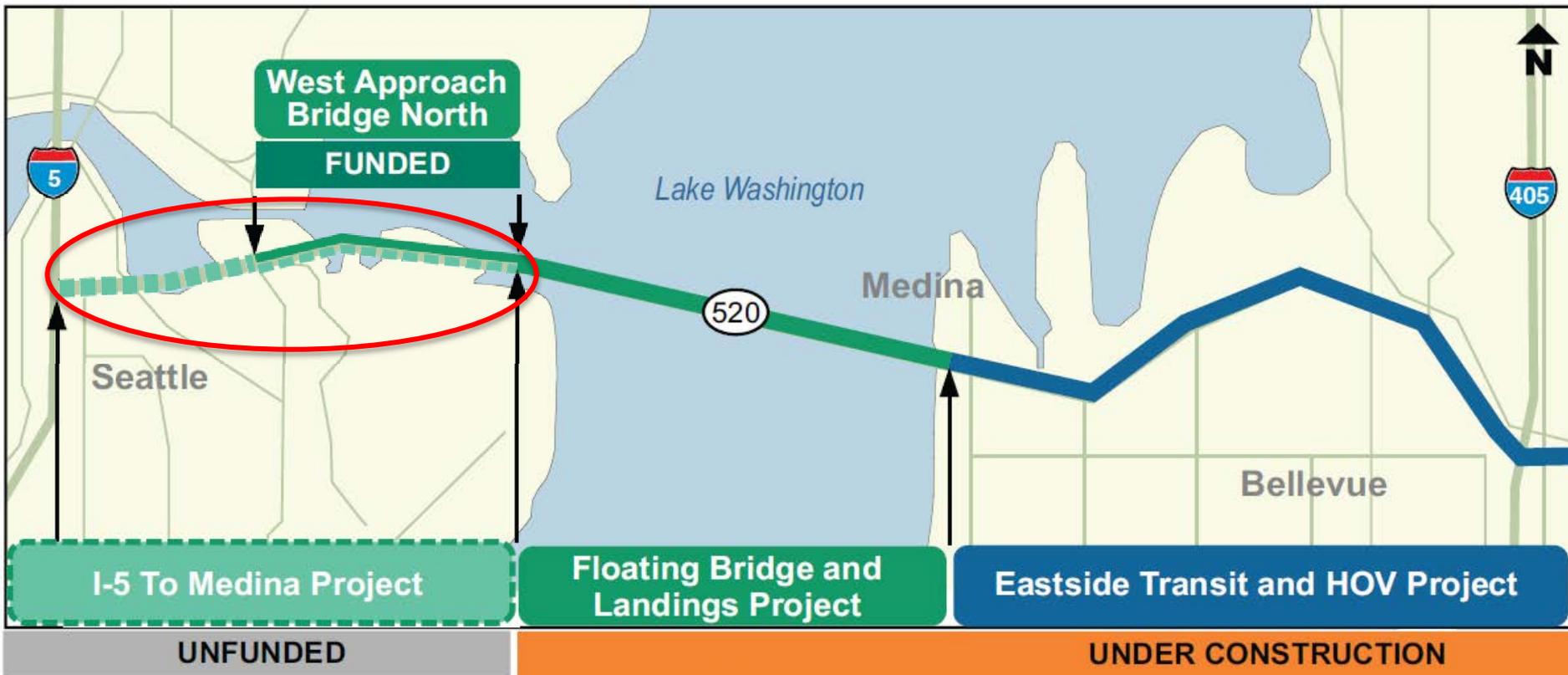
- Advances aquatic, wetland, and parks mitigation
- Constructs the permanent regional shared-use path between Bellevue and Seattle
- Improves bicycle and pedestrian connectivity
- Improves transit connectivity and reliability by extending the HOV/transit lane to Seattle
- Reduces concrete volumes by nearly 50 percent as a result of baseline design refinements

Construction update: Connecting the new floating bridge



Next Steps to Complete the SR 520 Corridor

- Remaining unfunded section: \$1.4 billion.



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: SR 520 Bridge Replacement and HOV Program
999 3rd Avenue, Suite 900
Seattle, WA 98104

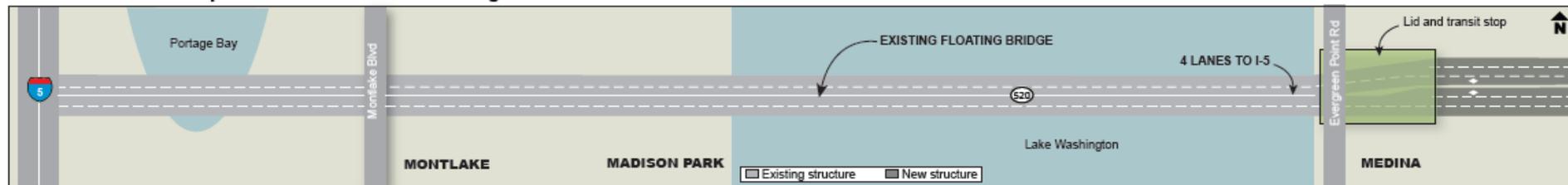


Additional slide if needed

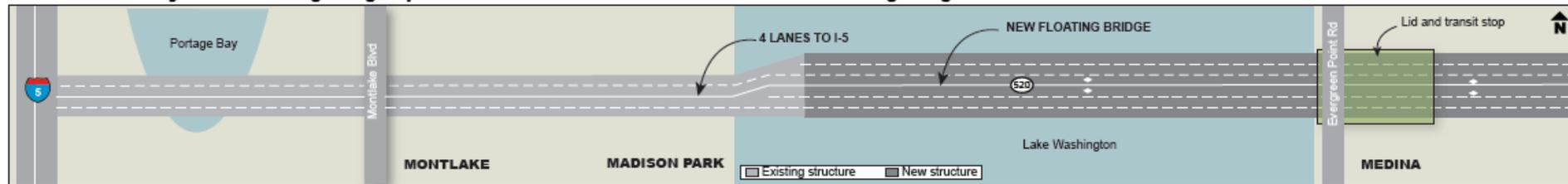
SR 520 Lane Configuration with phased Project Completion

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

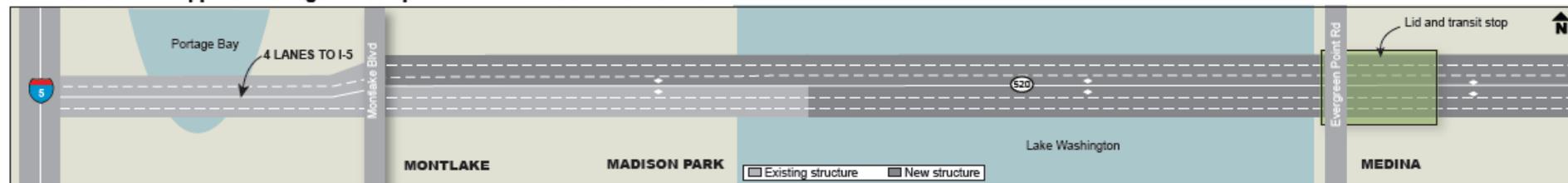
Mid 2014: Eastside Open To Traffic - 6 Lanes to Evergreen Point Road



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

