

SR 520 Bridge Replacement and HOV Program MOU Implementation and Construction Update

Julie Meredith, P.E.
SR 520 Program Director

Kerry Pihlstrom, P.E.
Engineering Manager
SR 520, I-5 to Medina Project

Daniel Babuca, P.E.
Engineering Manager
West Approach Bridge North

Paula Hammond, P.E.
Secretary of Transportation

Seattle City Council
Seattle City Hall
February 4, 2013
2:30 p.m.

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
 - Community Construction Management Planning
 - Consult on design and construction as necessary

***** Progress related to West Approach Bridge North is the focus of today's presentation *****



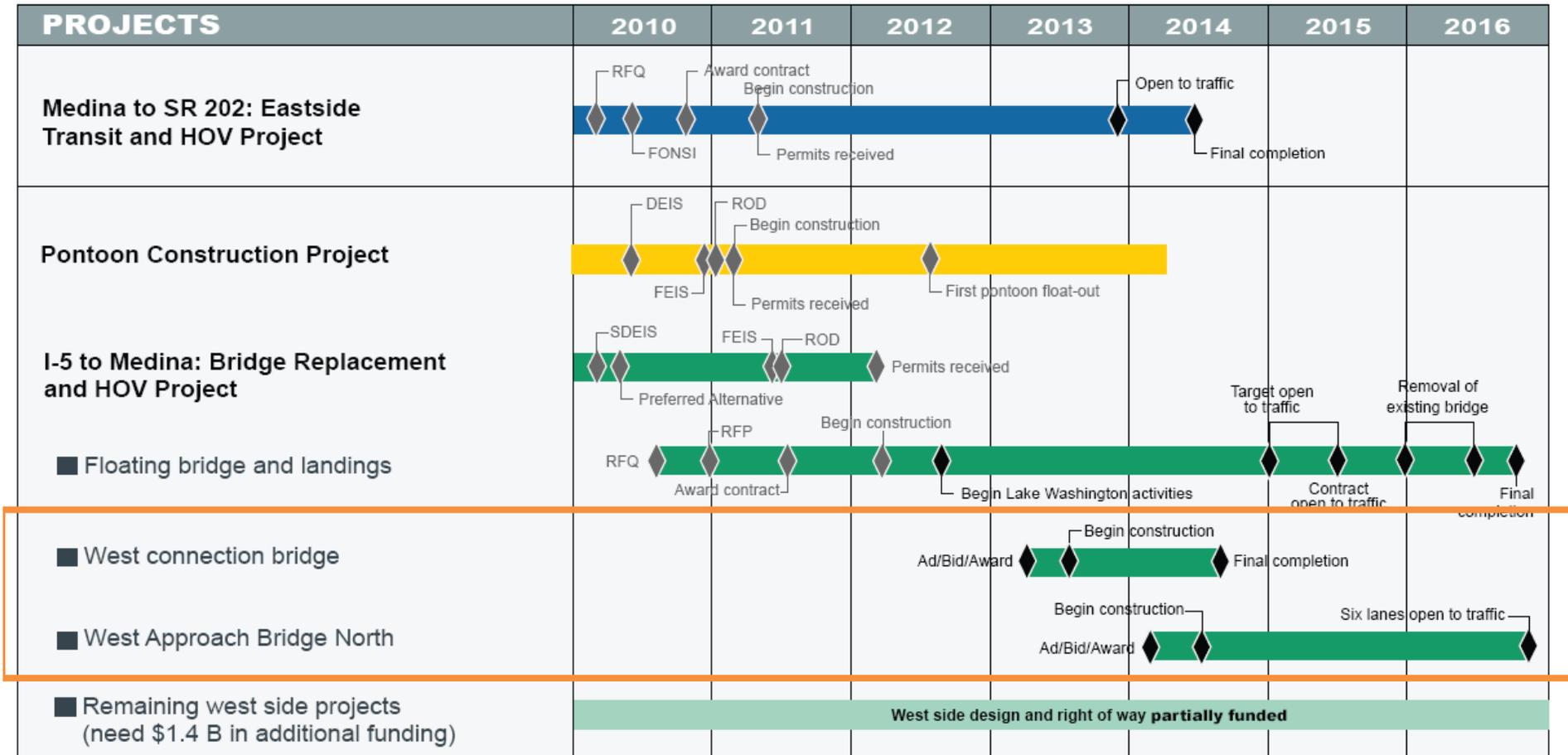
West Approach Bridge North overview

- Construction schedule and funding
- Design refinement process
- Bicycle, pedestrian, vehicle connections
- Construction commitments
- Environmental compliance and mitigation
- Next steps



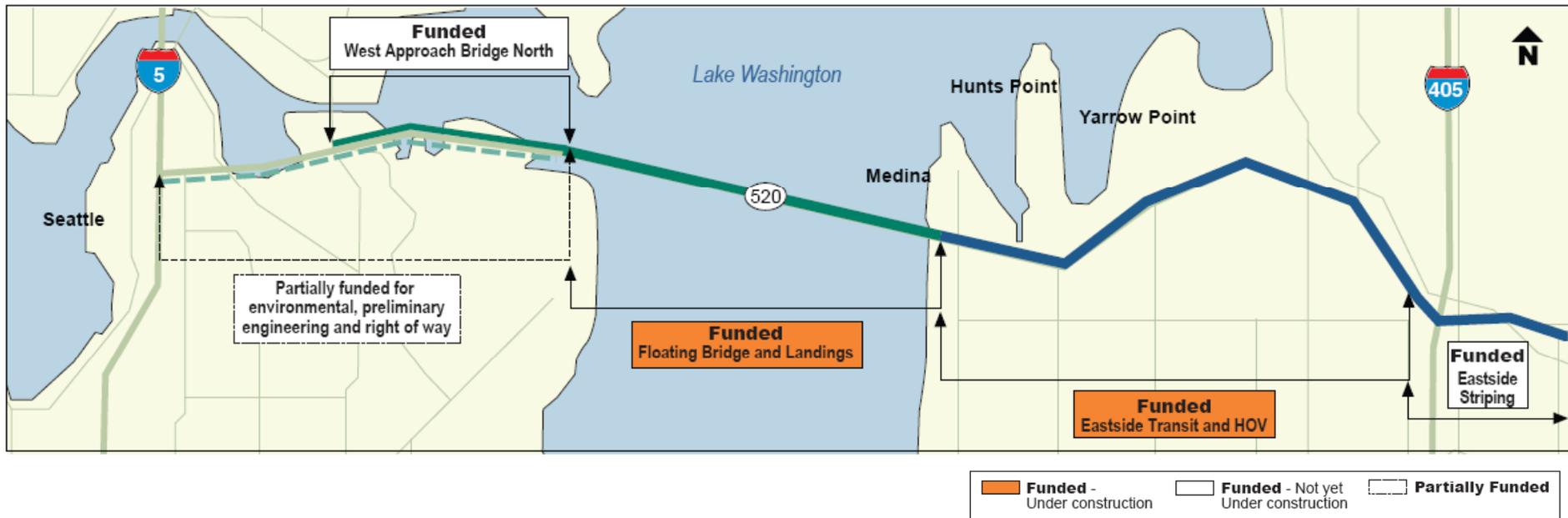
View of the existing west approach bridge, looking southwest towards Madison Park.

Construction schedule



DRAFT: Jan. 2013

What is funded for \$2.72 billion?



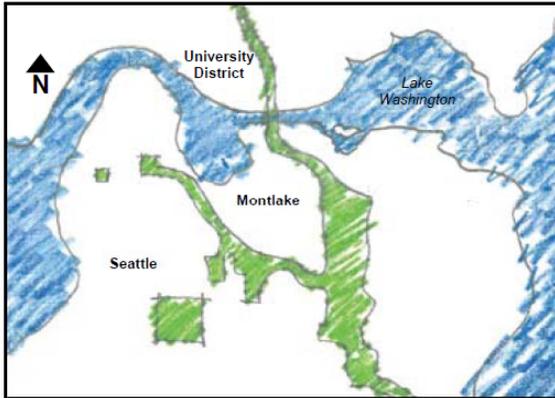
Program cost estimate (Oct. 2012): \$4.13 billion

What's funded: \$2.72 billion (includes sales tax deferral)

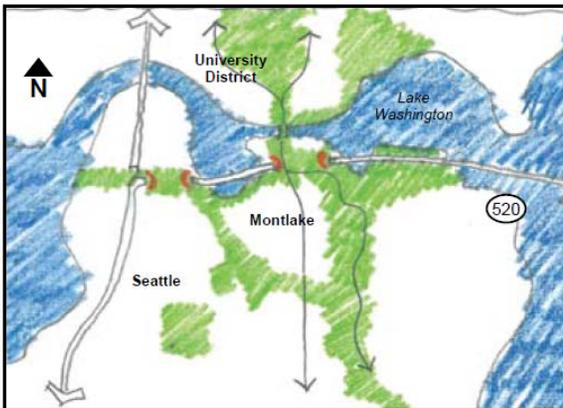
- Pontoon construction in Grays Harbor.
- The floating bridge and landings.
- Eastside transit and HOV improvements.
- The north half of the west approach bridge.

Updated January 2013

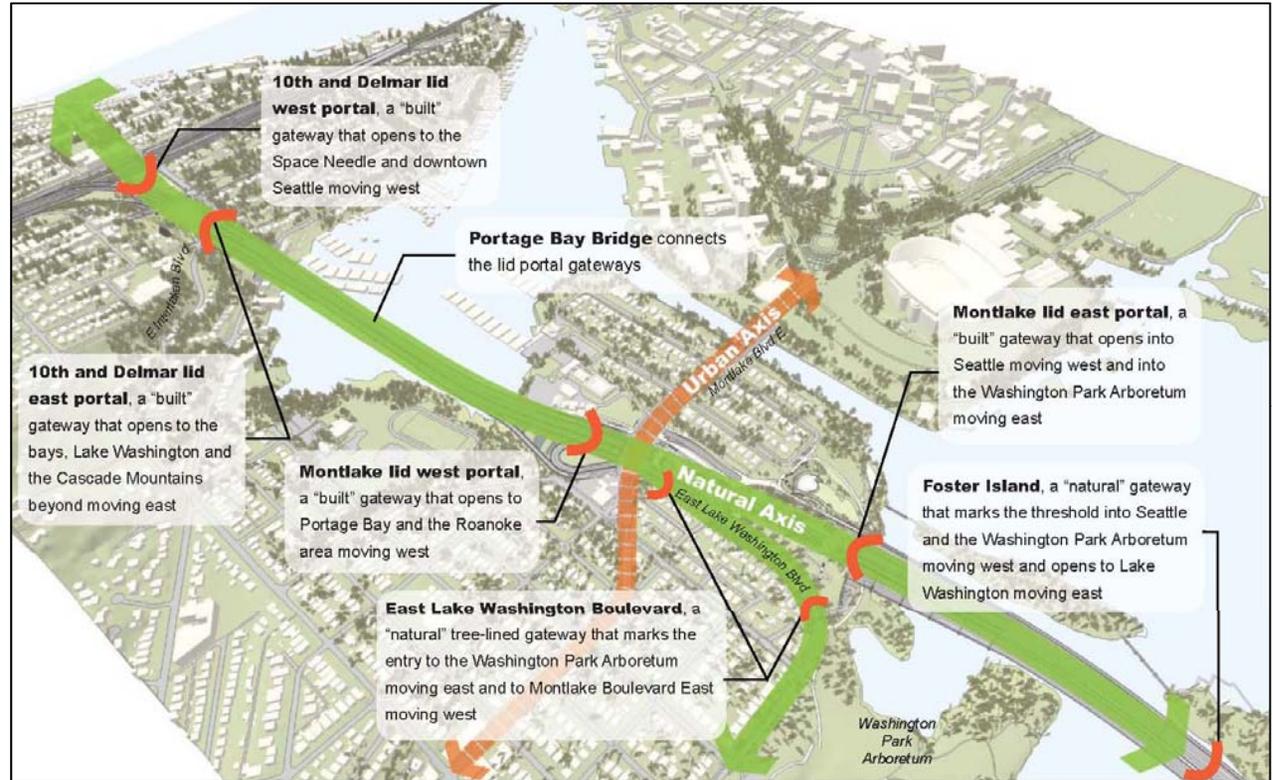
A refined vision for the corridor: Nature meets City



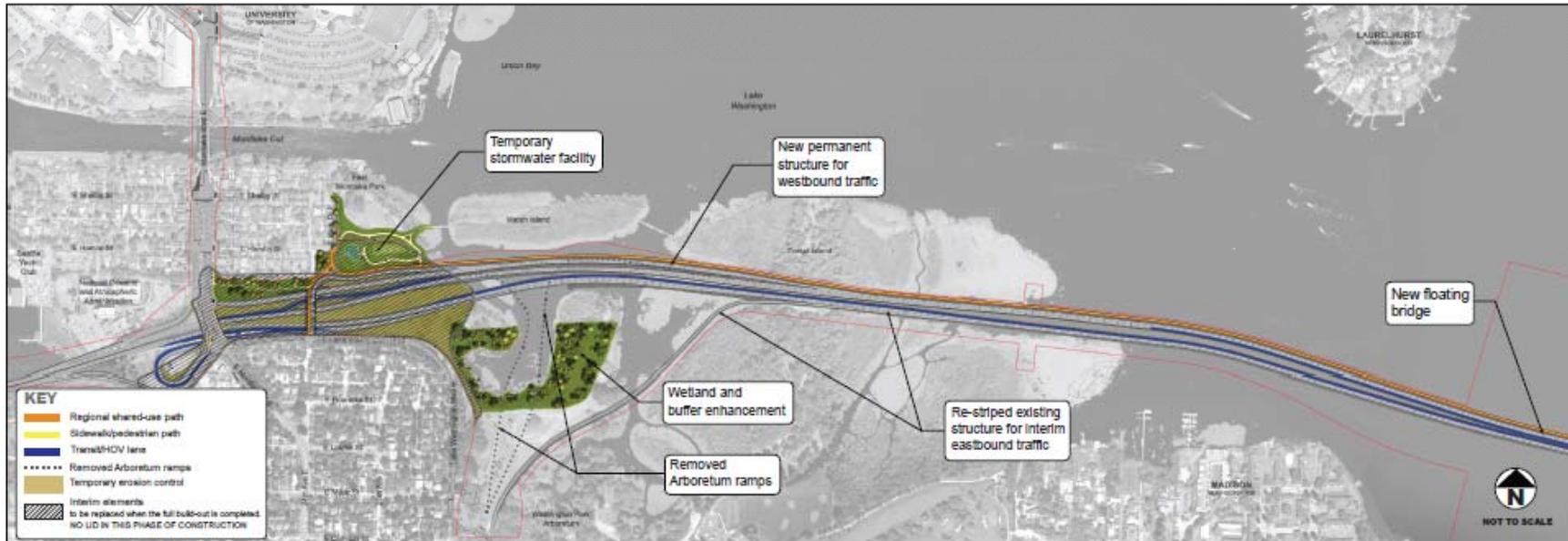
A conceptual diagram of Seattle's 100-year vision as articulated in 1909, based on the Olmsted plan.



A conceptual diagram of how SR 520 could build upon the 1909 vision to connect green spaces, waterways, and gateways in and out of Seattle.



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

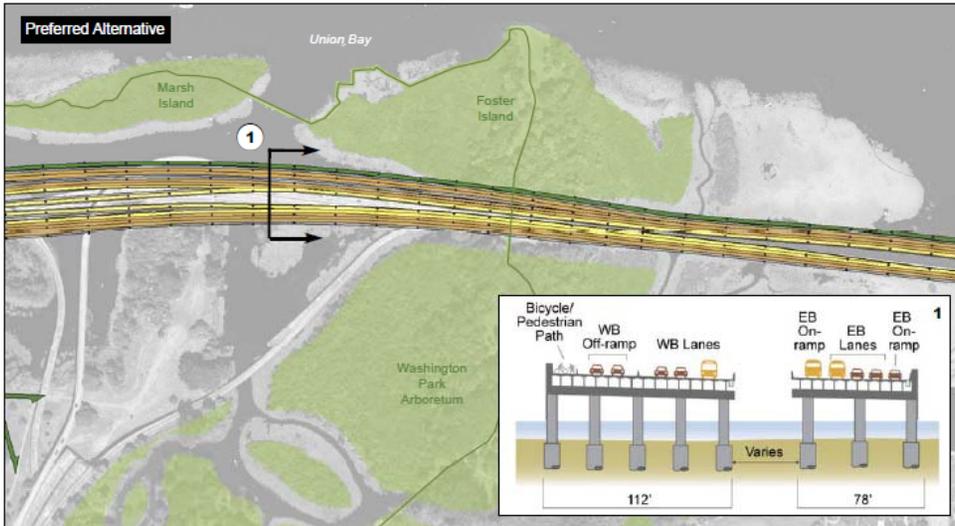
Bridge and Corridor Safety

- 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

Preferred Alternative: West approach area



Council comments incorporated:

- ✓ Split the bridge corridor and narrow shoulders through the Arboretum
- ✓ Ensure new bridge is designed and constructed to accommodate high capacity transit



Excerpt from June 2011 presentation to Seattle City Council SR 520 Special Committee

2012 Seattle Community Design Process: West approach area



What we heard

- ✓ Support for simple and clean structure, regional bicycle and pedestrian path
- ✓ Integrate refined project vision



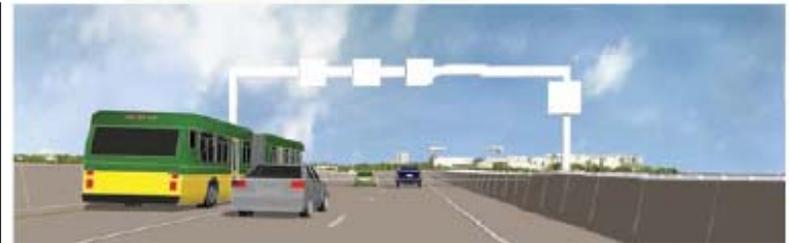
A rendering of a view from the new bicycle/pedestrian path on the West Approach Bridge.

2012 - 2013 Agency collaboration



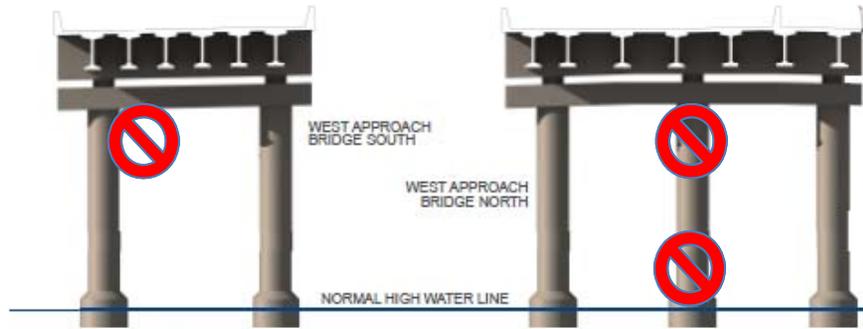
What we heard

- ✓ Implement simple and clean structure with regional bicycle and pedestrian path
- ✓ Integrate the refined project vision
- ✓ Implement a design that is forward compatible with the rest of the west side design and planned bicycle and transit facilities
- ✓ Develop interim design for all connections between West Approach and the Montlake Area

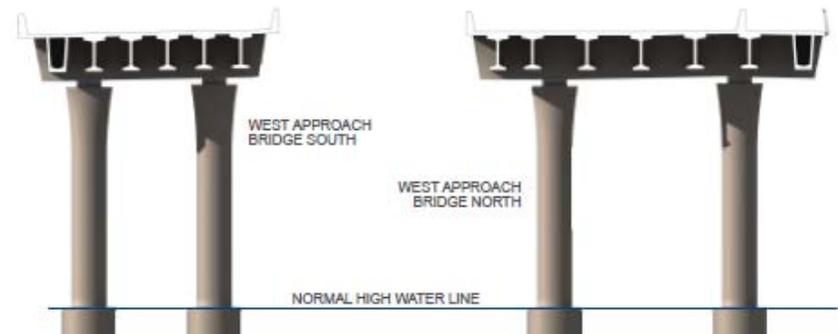


Design refinements

FEIS Baseline Design



Preferred Design

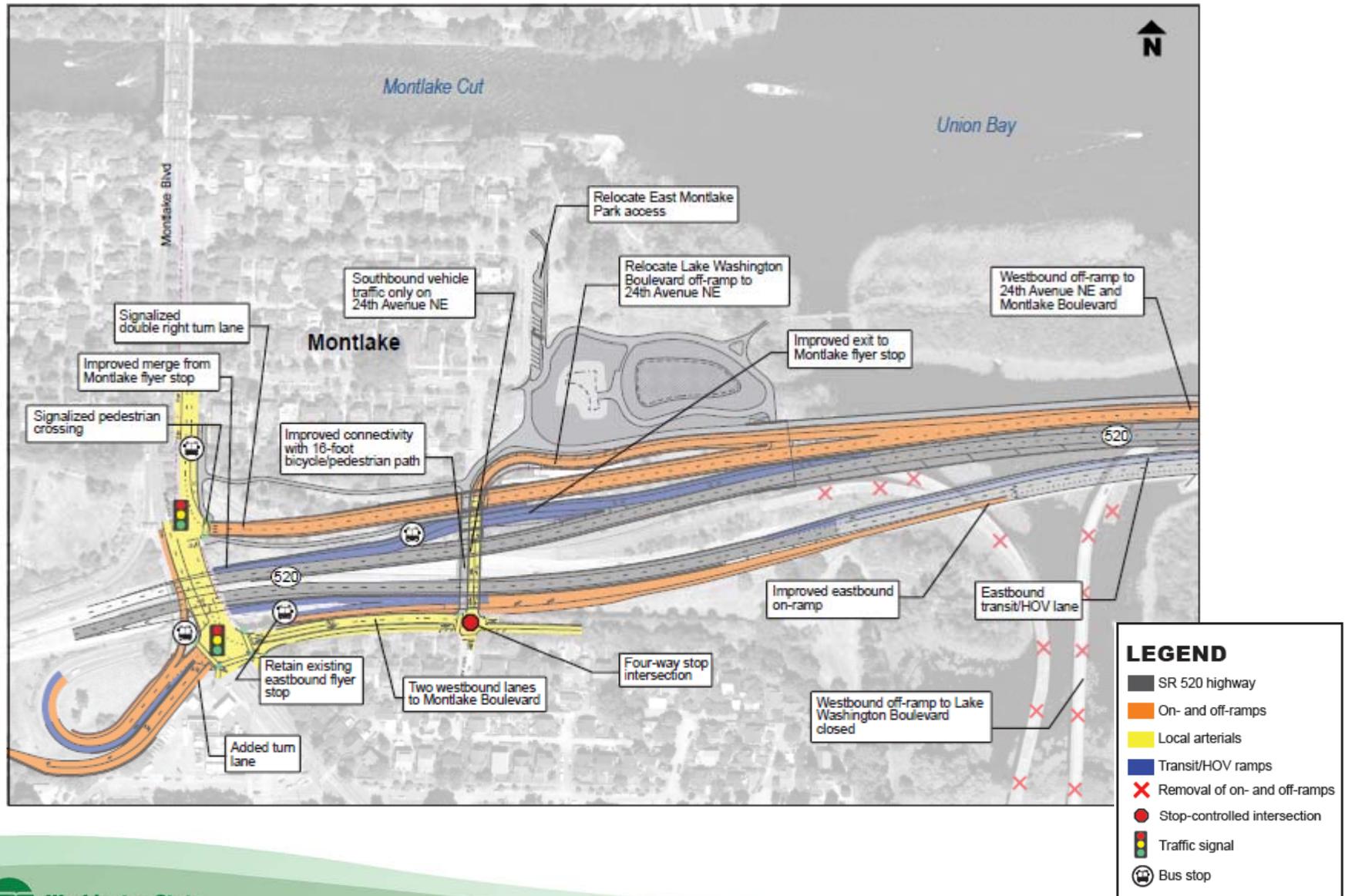


Preferred Design Expansion Joint

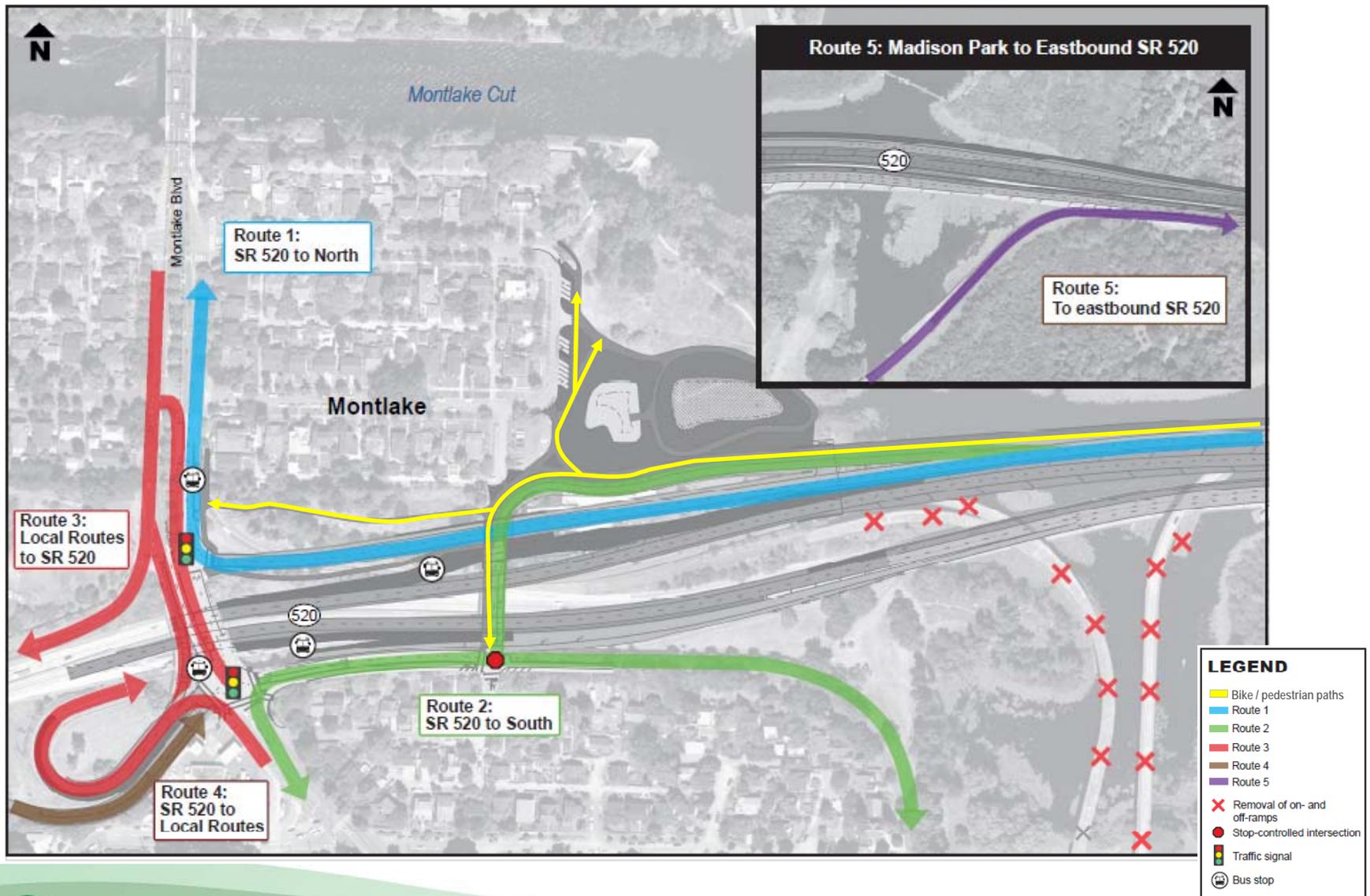


Removed during design refinement

Key design changes to maintain traffic operations



Bicycle, pedestrian, and vehicle connections



Construction commitments to minimize effects

- Community Construction Management Plan
Start Fall 2013, complete before construction
- Neighborhood Traffic Management Plan
In process, complete Summer 2013
- Appropriate regulatory mitigation
- Design techniques
 - Streamlined bridge design, fewer columns
 - Evaluating use of pre-cast materials built off-site
- Construction techniques
 - Keep SR 520 and local streets open to traffic
 - Use work bridges and limited barge work to reduce truck traffic on local streets
 - Restrict nighttime construction work
 - Evaluate ways to buffer / screen adjacent communities



Environmental compliance

- WABN effects are covered by the project's final environmental impact statement (EIS) and federal Record of Decision
- WSDOT will complete appropriate mitigation for parks, aquatic / wetland resources, and historic and cultural resources



Washington Park Arboretum

Environmental mitigation and community benefits



Environmental (Parks, Natural Resources)

1. New public park at Bryant Building site
2. Union Bay Natural Area restoration
3. WSDOT Peninsula wetland restoration
4. Washington Park Arboretum improvements
 - Arboretum Waterfront Trail
 - Multi-use trail
 - Foster Island
 - Arboretum Creek
 - Azalea Way Pond
 - Wayfinding and interpretive signage

Planning and Built Environment

5. Montlake Triangle Project
6. Community Construction Management Plans for funded construction phases
7. Second Montlake Bridge planning process
8. Washington Park Arboretum traffic calming
9. Neighborhood Traffic Management Planning
10. 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

WABN next steps

- Ongoing collaboration with Seattle through MOU, including:
 - Technical Working Group
 - Seattle Design Commission
- Coordination with transit agencies
- Hear feedback at SR 520 Program open houses this week
- Construction begins in summer 2014



You're invited! SR 520 Program open houses

Eastside: Tuesday, Feb. 5, 2013

- **Time:** 4:30 – 7:30 p.m.
- **Location:** North Bellevue Community Center
4063 148th Avenue Northeast, Bellevue
- **Transportation:** Limited free parking available.
Served by Metro bus routes 244, 265, 269, B Line

Seattle: Wednesday, Feb. 6, 2013

- **Time:** 4:30 – 7:30 p.m.
- **Location:** St. Demetrios Church in Montlake
2100 Boyer Avenue East, Seattle
- **Transportation:** Free parking available in church lot.
Served by Metro bus route 25



Note: Both meetings will share the same information and materials.

Next steps

- Ongoing coordination with the City to implement MOU commitments
- Advance design work for north half of West Approach Bridge
- Continue actively seeking funding for unfunded project elements



Thank you

For more information:

- Visit us online: www.wsdot.wa.gov/projects/sr520bridge
- Email us: SR520Bridge@wsdot.wa.gov
- Call us: 206-770-3500
- Info line: 1-888-520-NEWS (6397)