

SR 520 Program West Approach Bridge North

Jan. 30, 2014



Julie Meredith
SR 520 Program Director

Lynn Peterson
Secretary of Transportation

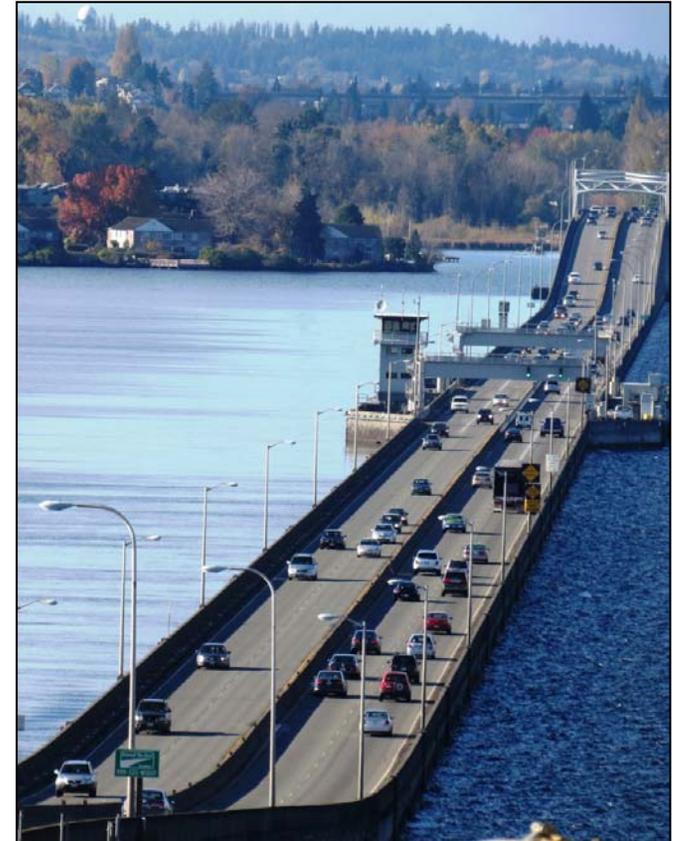
SR 520 Program Update
Graham Visitors Center
Jan. 30, 2014

Today's agenda

- **4:30 p.m.:** Welcome, introductions, and meeting purpose
- **4:45 p.m.:** Room orientation –
Get familiar with the materials in the room and prepare your questions
- **5:00 p.m.:** Presentation
- **5:25 p.m.:** Question and answer session
- **6:00 p.m.:** Open house with our technical staff –
Ask more questions
- **6:30 p.m.:** Adjourn

Presentation overview

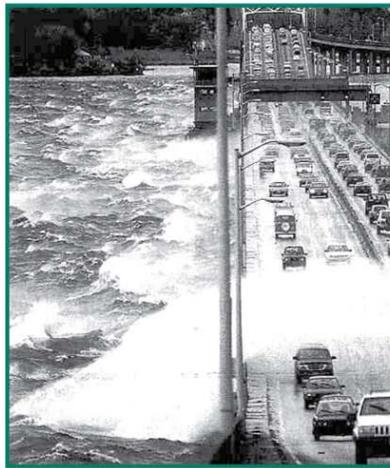
- SR 520 Program and funding update
- West Approach Bridge North Project overview
- SR 520 Neighborhood Traffic Management Plan
- How to stay informed during construction



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

Why does SR 520 need replacing?

SR 520 bridge is vulnerable to windstorms and earthquakes

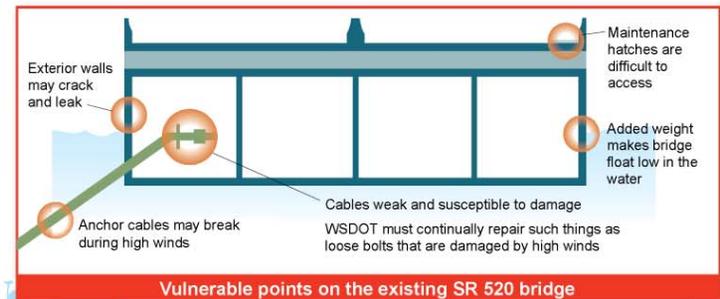


Waves batter the SR 520 bridge.

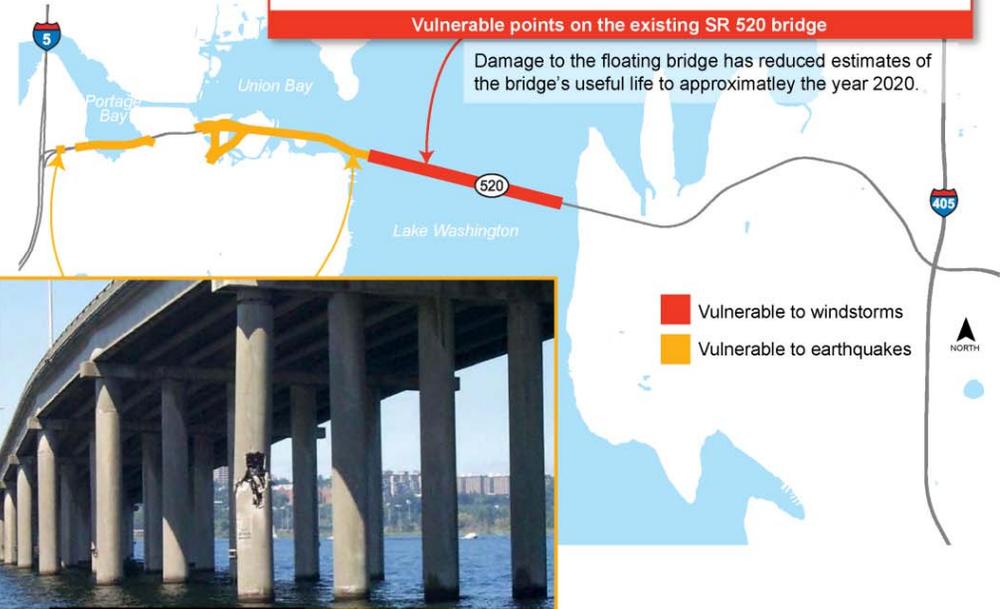
Current vulnerabilities



A torn cable joint found during a routine inspection in February 2006. The cables connect the floating bridge pontoons to their underwater lakebed anchors.



Vulnerable points on the existing SR 520 bridge



Damage to the floating bridge has reduced estimates of the bridge's useful life to approximately the year 2020.



What is funded for \$2.72 billion?



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

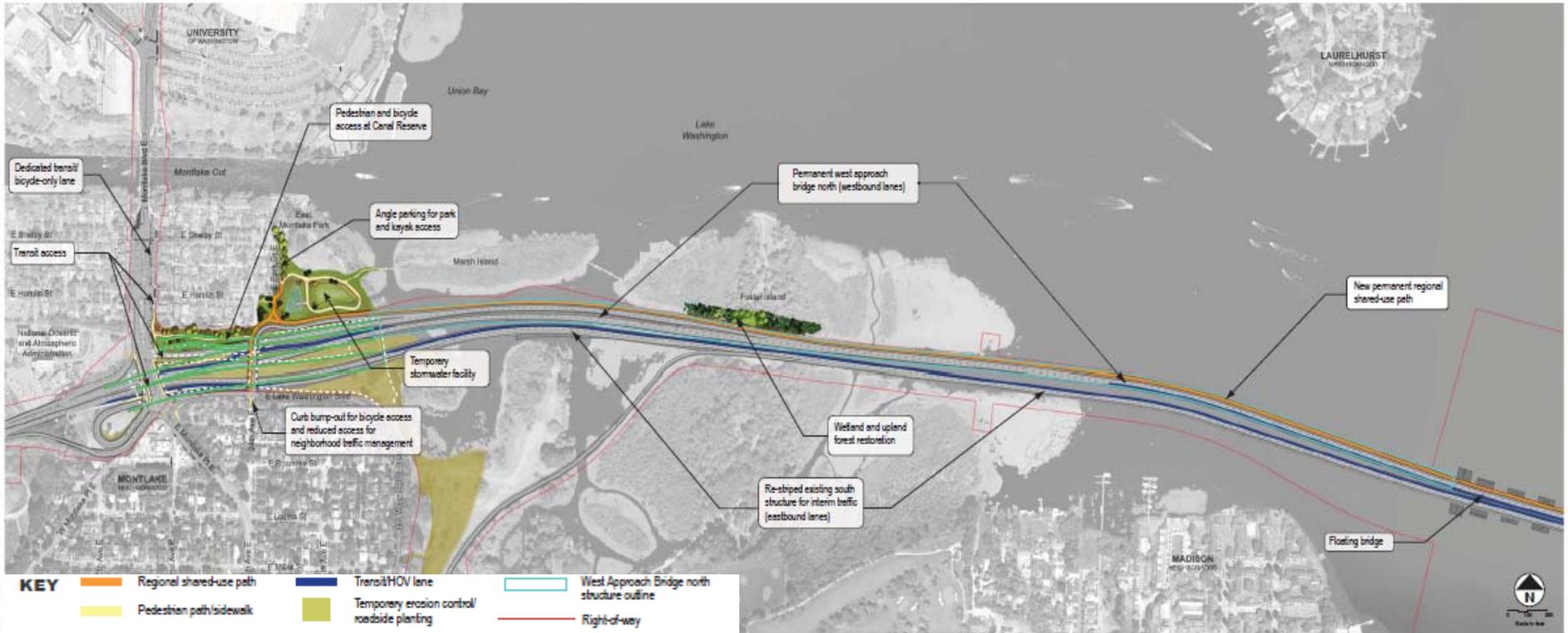
SR 520 Program cost estimate (Oct. 2012): \$4.13 billion

SR 520 Program funding: \$2.72 billion

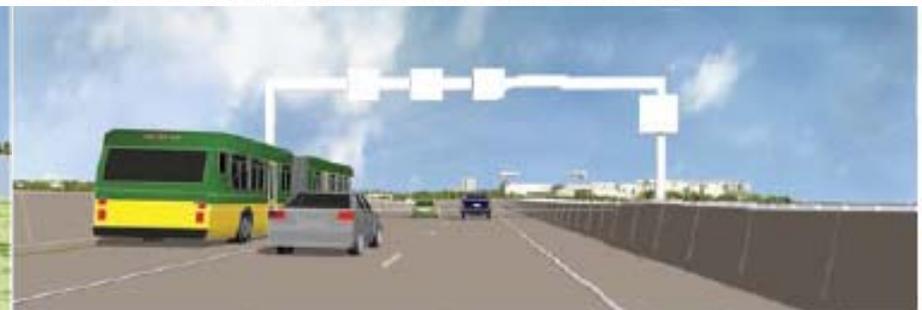
- Includes \$300 million TIFIA loan to fund WABN

Remaining unfunded need: \$1.4 billion

West Approach Bridge North Project



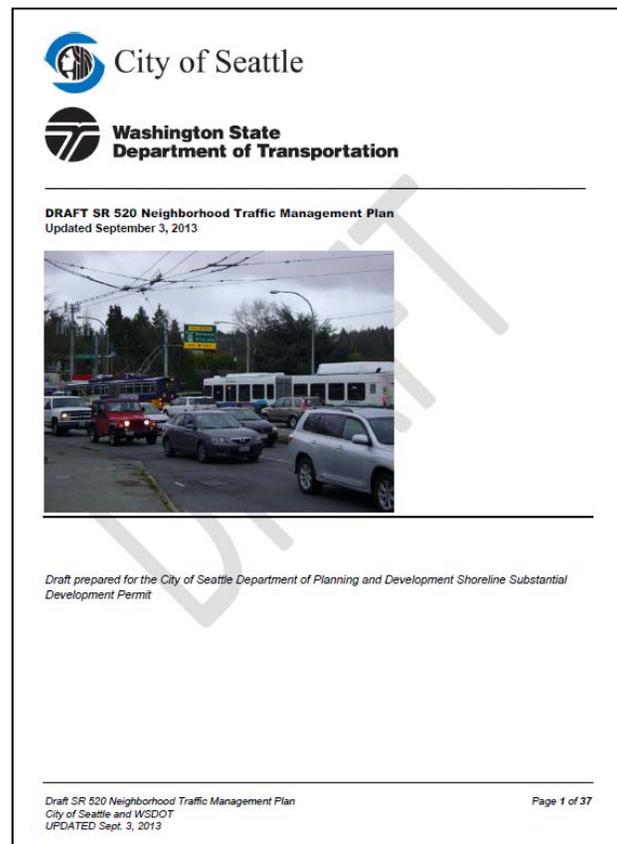
Looking west



Looking west

Neighborhood Traffic Management Plan

- Represents the City of Seattle's and WSDOT's commitment to enhance the safety and livability in the Montlake Boulevard corridor while the I-5 to Medina project construction is underway.
- For the West Approach Bridge North Project, defines traffic management measures to proactively reduce SR 520 project construction effects and develop long-term traffic management strategies.
- Includes a summary of public comment collected through public outreach and a Community Advisory Group.
- Living document that will be updated as future phases of the project are funded in consultation with the public.



Neighborhood Traffic Management Plan

- Accepting comments on the SR 520 Neighborhood Traffic Management Plan through Feb. 20.
 - Make comments today on comment forms around the room.
 - Send comments to SR520bridge@wsdot.wa.gov.



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

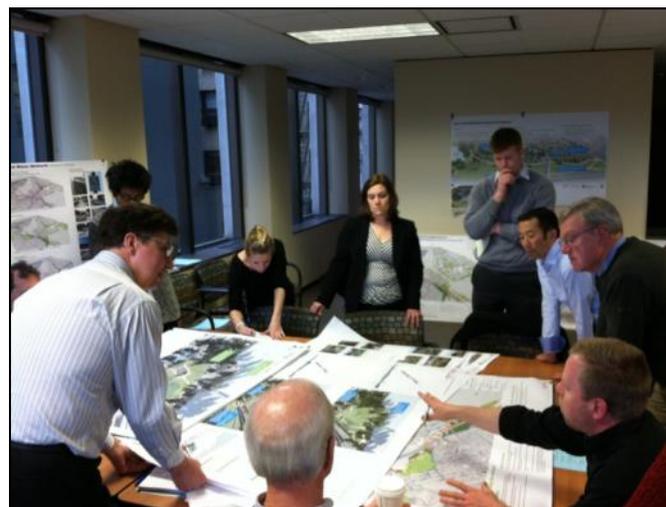
View the Neighborhood Traffic Management Plan and the Community Construction Management Plan on the SR 520 Orange Page:

www.wsdot.wa.gov/Projects/SR520Bridge/520orangepage/

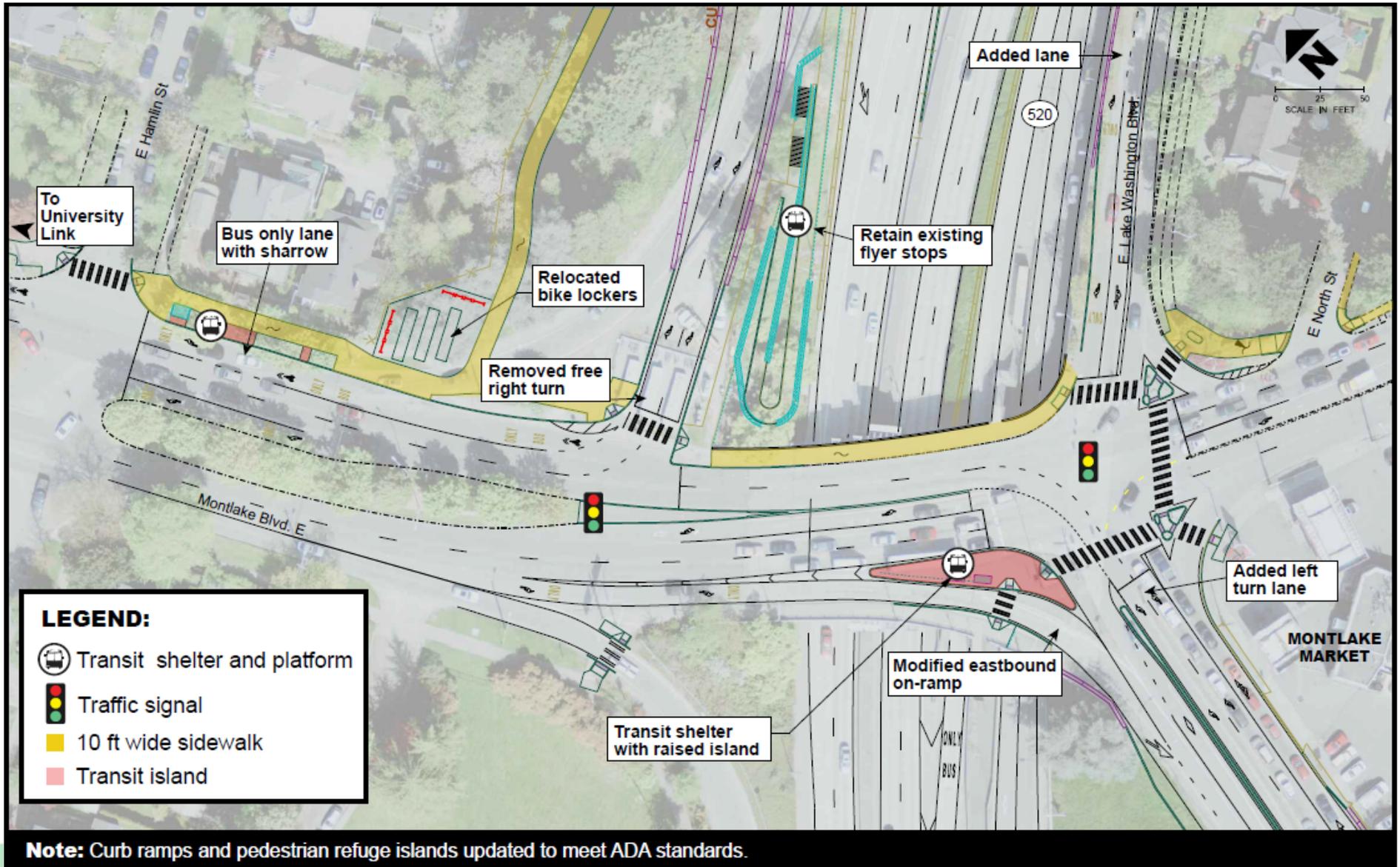
Neighborhood Traffic Management Plan

What we heard: (NTMP pages 20 – 22)

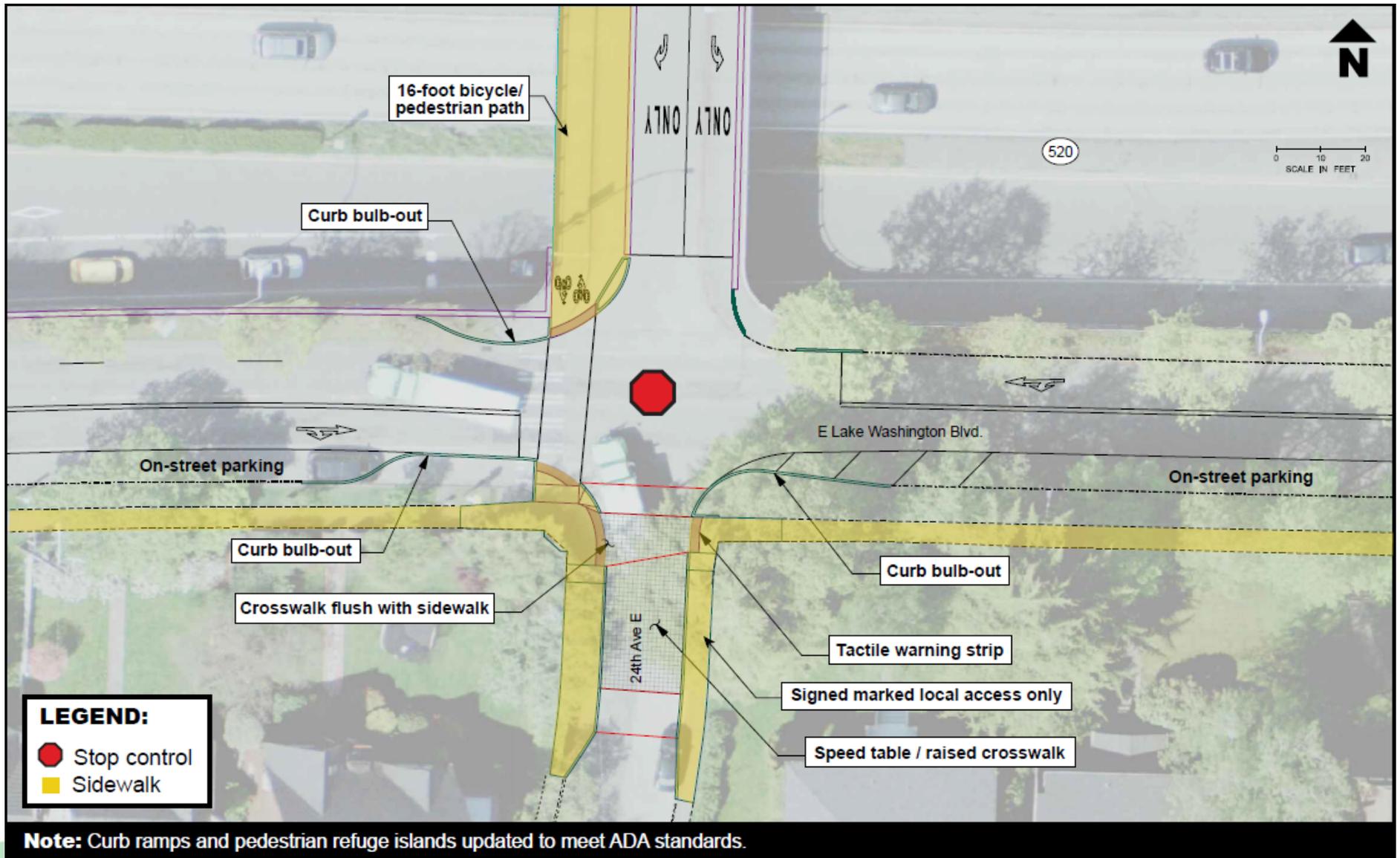
- Improve traffic flow and mobility to and through the Montlake corridor.
- Implement safe and efficient connections for bicyclists, pedestrians, and transit riders.
- Improve transit reliability in key corridors such as Montlake Boulevard.
- Divert cut through traffic away from neighborhood collector streets.
- Control speeding on arterials and neighborhood collector streets.
- Implement travel demand strategies to reduce traffic volumes.



Montlake Boulevard design refinements



24th Avenue East / East Lake Washington Boulevard



WABN construction best practices

Construction activities have been carefully planned to create the least amount of effects to the area. This includes:

- Adding capacity and improving surface streets before the closure of 24th Avenue East over SR 520.
- Minimizing roadway and/or lane closures.
- Limiting major closures to night time and weekends during off-peak hours, and coordinating to minimize impacts during local special events.
- Constructing temporary ramps to carry sufficient capacity.



Preparing for construction

Contracting milestones:

- **March:** Ad date
- **June:** Bid opening
- **Summer:** Award contract
- **Late summer:** Begin construction

Other key milestones before construction begins:

- Continue process of nominating the Montlake neighborhood to the National Register of Historic Places.
- Demolish the Museum of History and Industry building.
- Advance utility relocation.
- Prepare the Old Canal reserve property.
- Conduct pre-construction inspections to front line homes.
- Develop a WABN vibration monitoring plan.



Next steps: Staying informed during construction

- **Spring 2014:**

- Community Council briefings as requested.
- Email updates and newsletters to adjacent neighborhoods and users.

- **Summer 2014:**

- Pre-construction Public Open House to meet the contractor and learn about construction activities.
- After construction begins:
 - Monthly construction update meetings begin after the start of construction
 - Implement best practices identified in the WABN Community Construction Management Plan



The SR 520 Community Construction Management Plan can be found online here:

www.wsdot.wa.gov/Projects/SR520Bridge/520orange/

How to stay informed during construction

Construction notification information

WSDOT offers several options to stay up to date on the latest construction information:

Online:

- **SR 520 Orange Page:**
www.wsdot.wa.gov/Projects/SR520Bridge/520orangepage/
 - Upcoming highway lane and ramp closures, nighttime noise, construction notices and other construction activities
- **Upcoming SR 520 full highway closures:**
www.wsdot.wa.gov/Projects/SR520Bridge/WeekendClosures.htm
 - Upcoming weekend closure dates and detour maps
- **SR 520 drawspan information:**
www.wsdot.wa.gov/Projects/SR520Bridge/BridgeAndLandings/DrawspanInfo.htm
 - Allowable opening hours and how to request an opening
- **Seattle area traffic:**
www.wsdot.com/traffic/seattle/default.aspx
 - Live traffic maps, cameras and alerts

Phone and Email:

- **SR 520 construction hotlines:**
 - Eastside: 425-998-5200
 - Floating bridge: 425-576-7098
 - 24 hour Construction Hotline: 206-708-4657
- **Sign up for email or text alerts:**
public.govdelivery.com/accounts/WADOT/subscriber/new?



Social media:

- **WSDOT Twitter:**
 - @wsdot: Statewide news and information
 - @wsdot_traffic: Puget Sound area traffic updates
- **WSDOT Facebook:**
www.facebook.com/wsdot

On the road:

- Smarter Highways and other electronic message signs on SR 520, I-5, I-90 and I-405

Questions?

For more information:

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

E-mail: SR520Bridge@wsdot.wa.gov

Call: 1-888-520-NEWS (6397) or 206-770-3500

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

Back pocket slides



SR 520 Program overview

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.



West Approach Bridge North Project

Preferred bridge design

Preferred Design

Typical Pier



View of preferred design at a typical pier, facing northwest



View of preferred design at a typical pier, facing southwest

Preferred Design

Expansion Joint



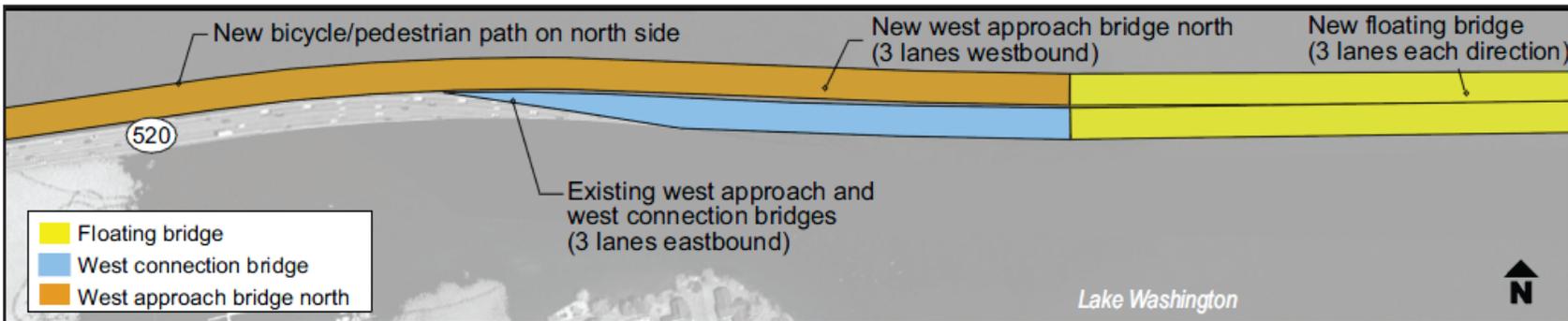
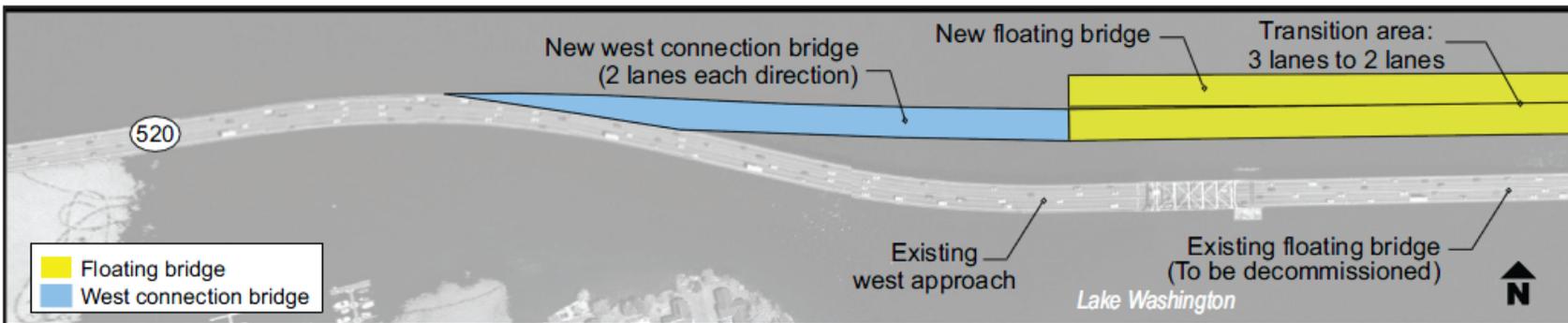
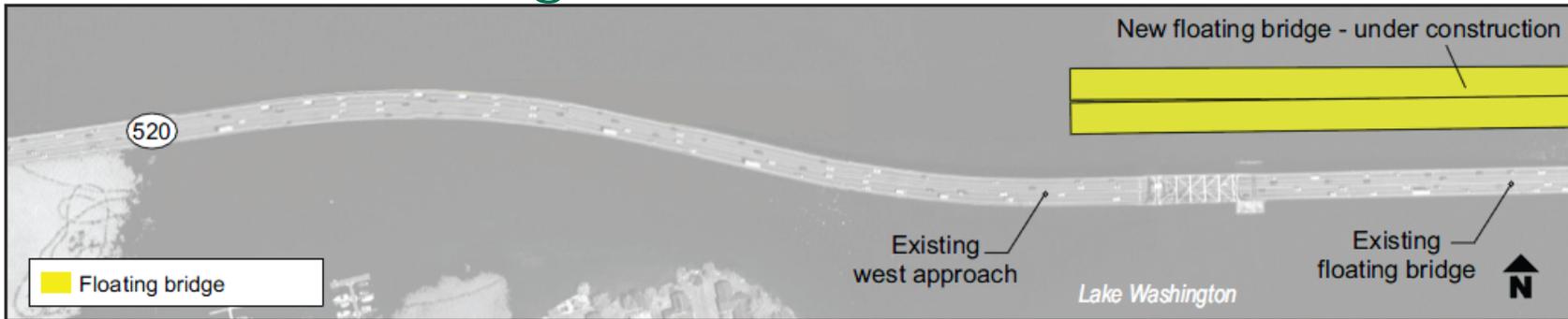
View of preferred design at an expansion joint, facing northwest



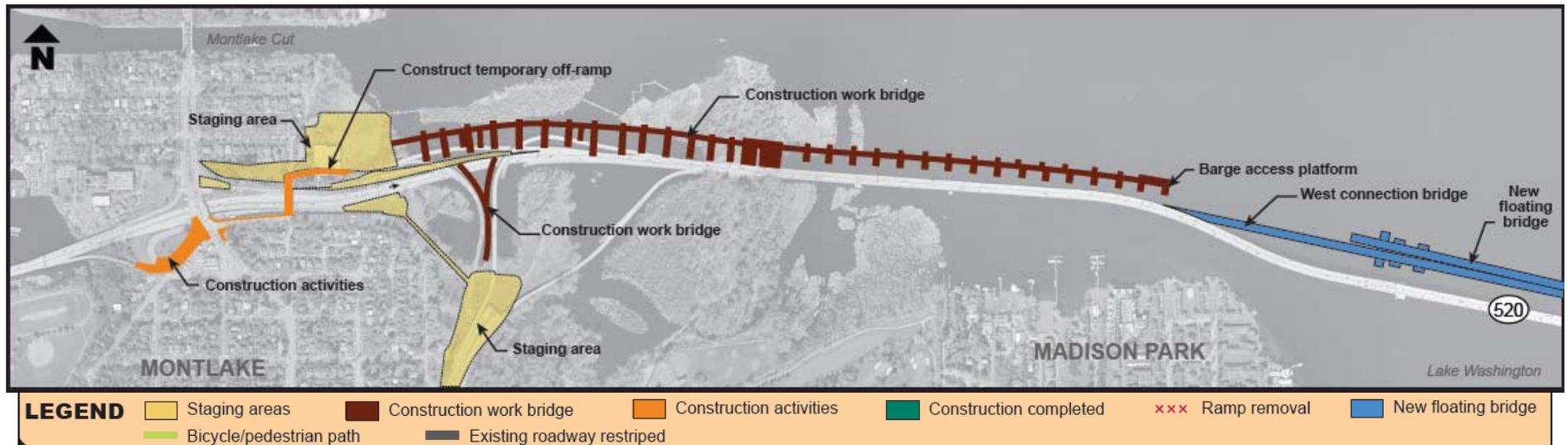
View of preferred design at an expansion joint, facing southwest

CONCEPTUAL
ONLY - THIS DRAWING ONLY SHOWS THE BRIDGE
CONCEPTUAL DESIGN AND ENVIRONMENTAL
ANALYSIS RESULTS.

How the new bridges will connect



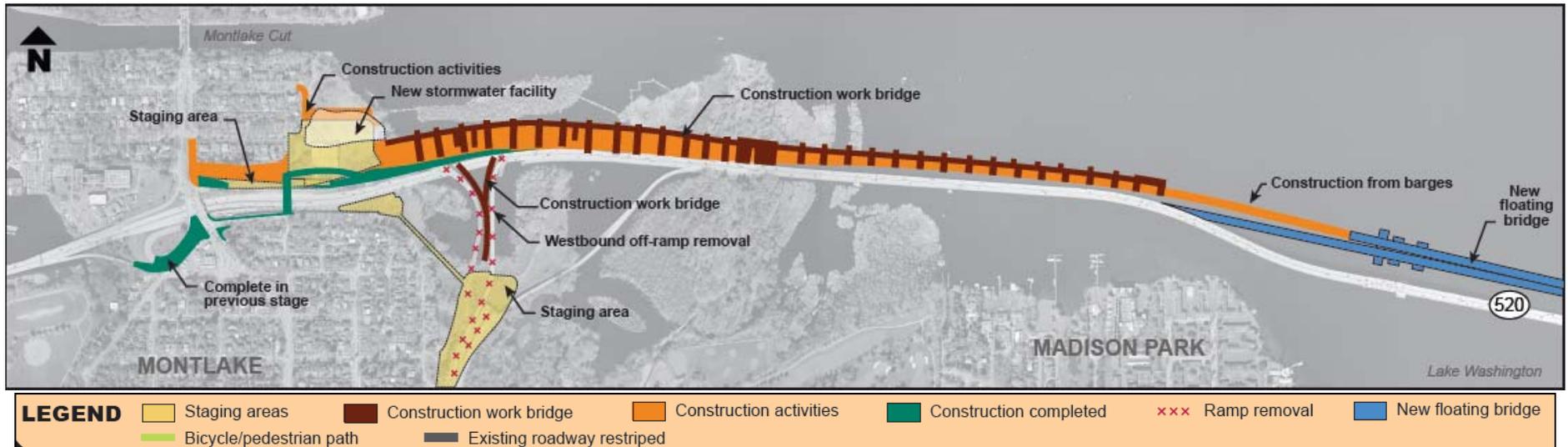
Construction – Phase one



Early construction activities (Approx. 4-6 months)

- Install work bridges.
- Make local street improvements on 24th Avenue East and Lake Washington Boulevard.
- Implement temporary street restrictions and detours on 24th Ave East and Lake Washington Boulevard for drivers and bicyclists/pedestrians in the Montlake area.

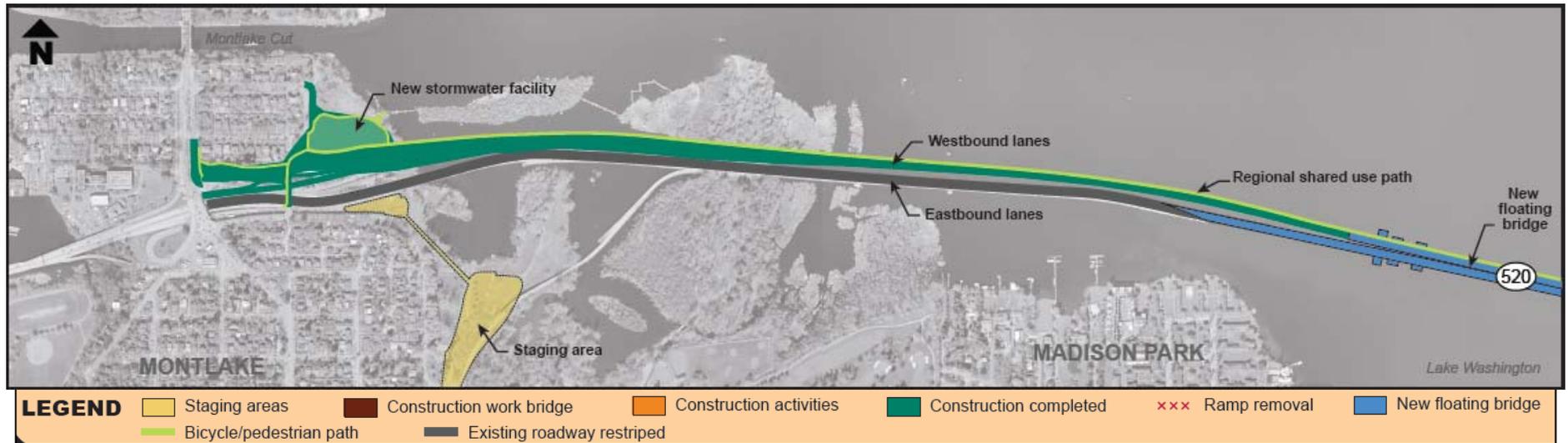
Construction – Phase two



Primary construction activities (Approx. 20-24 months)

- Complete work bridge installation.
- Demolish the westbound Lake Washington Boulevard off-ramp and unused R.H. Thomson ramps.
- Build the West Approach Bridge North structure.
- Build the new stormwater facility in Montlake.

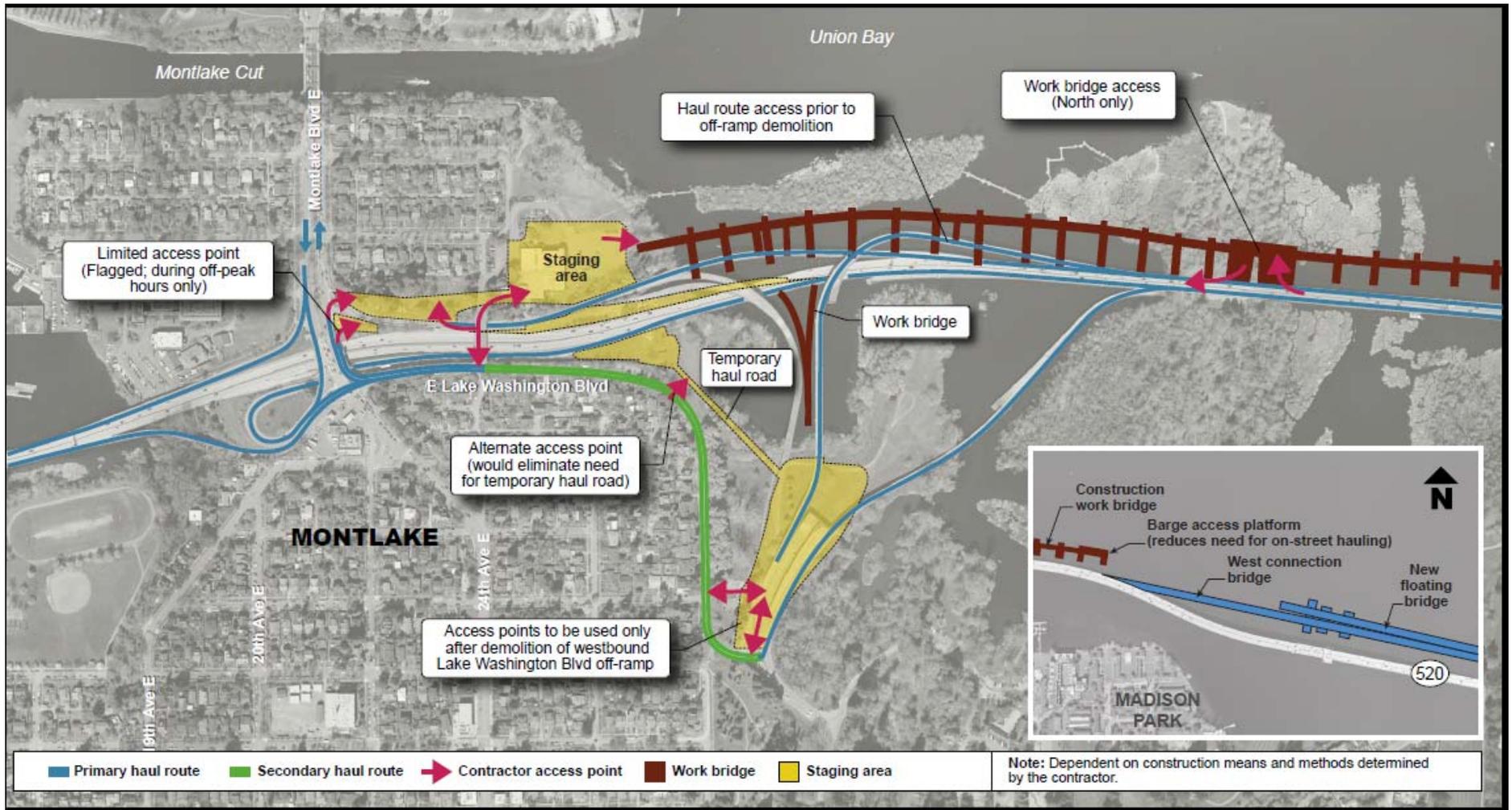
Construction – Phase three



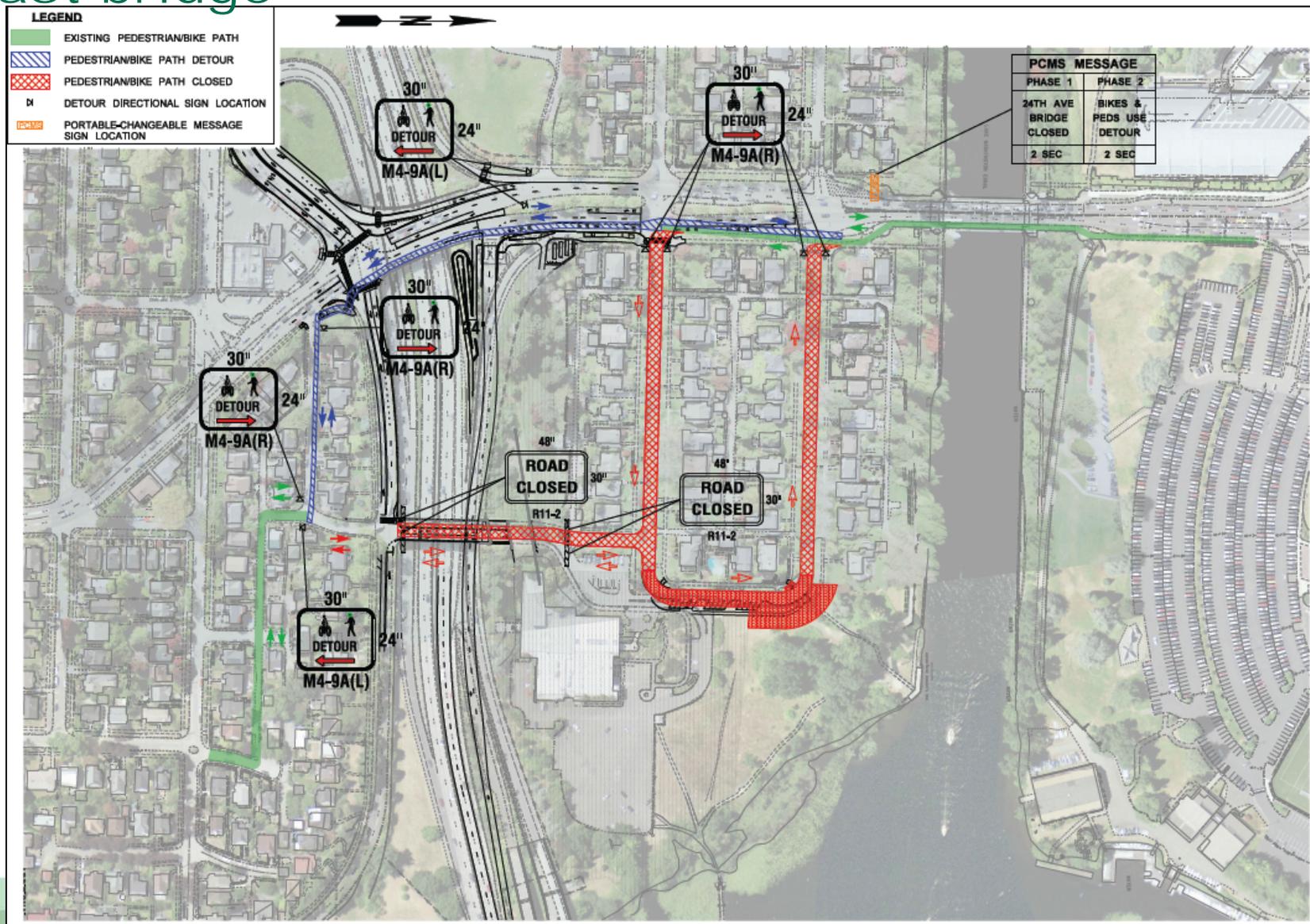
Final WABN construction activities (Approx. 2-3 months)

- Remove work bridges.
- Connect the new West Approach Bridge North to the new floating bridge and Montlake interchange.
- Restripe existing structure for eastbound traffic.
- Open to traffic.

Construction access and haul routes



Bike/ped detours during closure of 24th Avenue East bridge



Neighborhood Traffic Management Plan

- **Who we've heard from:**

- Local agencies and partners:

- Seattle Department of Transportation
- Seattle Department of Planning and Development
- Seattle Parks and Recreation
- Sound Transit
- University of Washington

- Neighborhood groups and community councils:

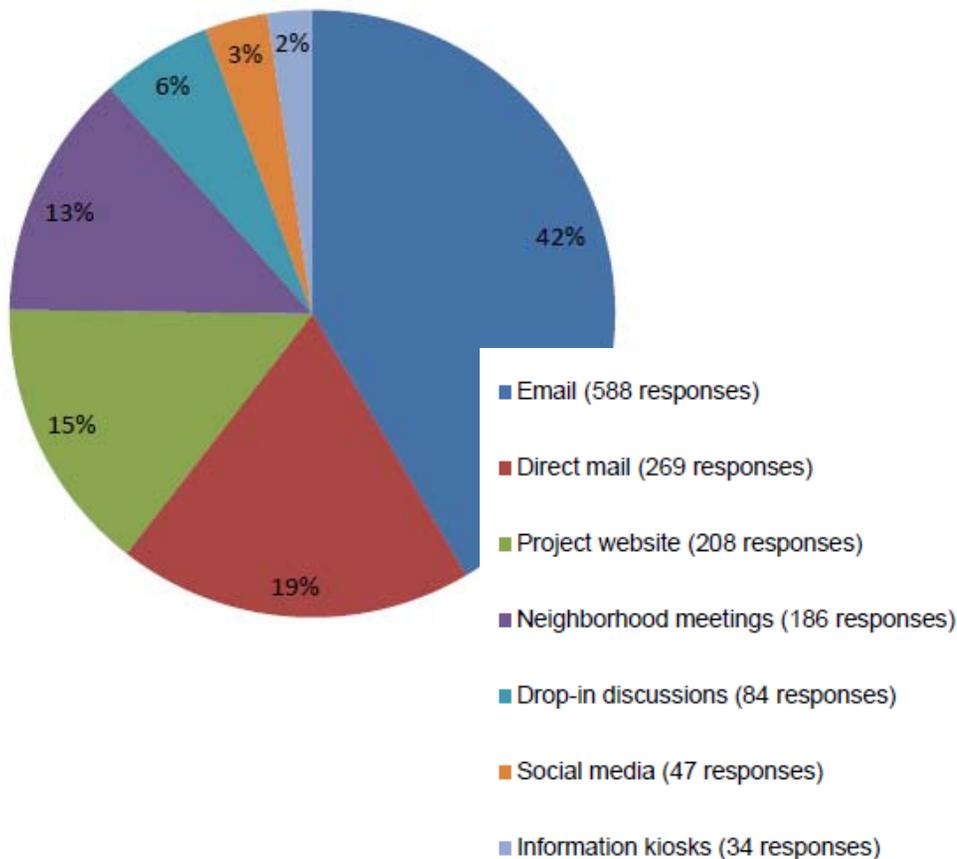
- Cascade Bicycle Club
- Laurelhurst Community Club
- Madison Park Community Council
- Montlake Business District
- Montlake Community Club
- North Capitol Hill Neighborhood Association
- Portage Bay / Roanoke Park Community Council
- Queen City Yacht Club
- Ravenna-Bryant Community Association
- Seattle Neighborhood Greenways
- Seattle Yacht Club
- University District Community Council



A public member reads the latest plans and designs for the west side of the SR 520 corridor in Seattle. SR 520 staff were available to answer questions and provide materials to the public.

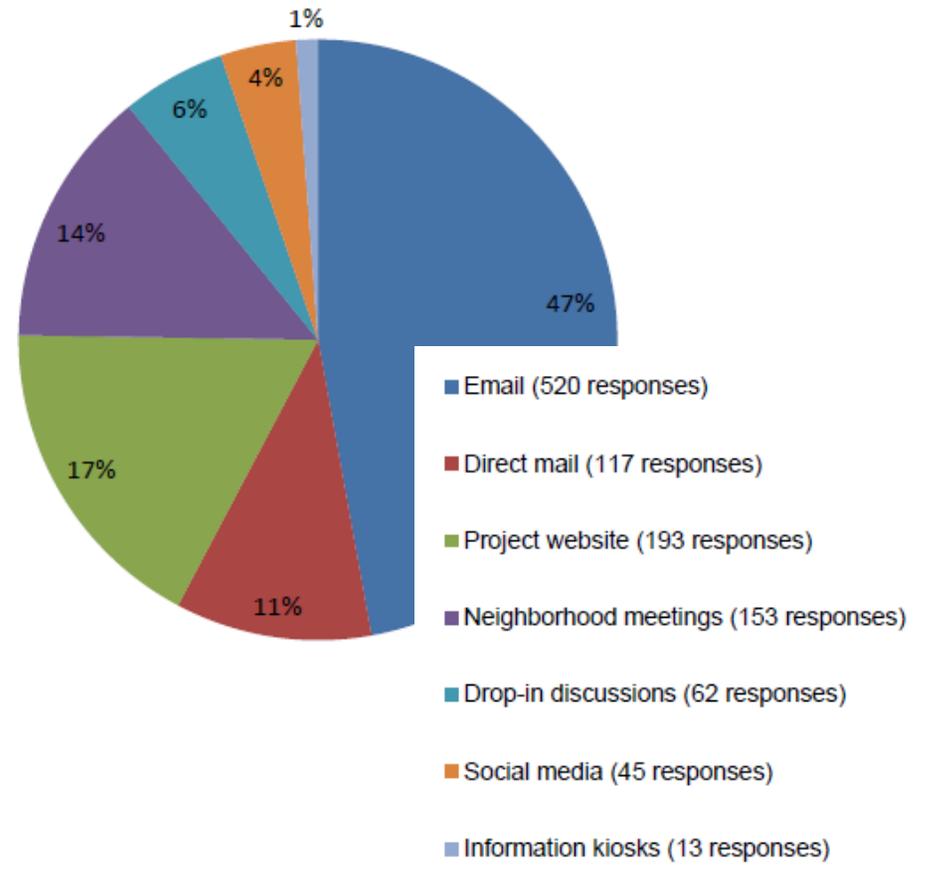
Summer outreach: What we heard

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)