

SEATTLE CITY COUNCIL

Council Briefing

April 20, 2020 - 9:30 AM

Meeting Location:

Remote Meeting. Call listen line at 206-684-8566 or access Seattle Channel online.

Committee Website:

<http://www.seattle.gov/council/>

In-person attendance is currently prohibited per the Washington Governor's Proclamation No. 20-28 until April 23, 2020. Meeting participation is limited to access by telephone conference line and Seattle Channel online.

Please Note: Times listed are estimated and public comment is not accepted during this meeting.

1. Approval of the Minutes

Council Briefing Minutes (2020)

[April 13, 2020](#)

2. President's Report

9:30 a.m. - 9:35 a.m.

3. Presentation on the Condition of the West Seattle Bridge

Briefing and Discussion

Presenters: Sam Zimbabwe, Director, and Heather Marx, Seattle Department of Transportation

9:35 a.m. - 10:15 a.m.

[Presentation](#)

4. Preview of Today's City Council Actions, Council and Regional Committees

(All Councilmembers)

10:15 a.m. - 11:30 a.m.

City Council Agenda (2020)

[April 20, 2020](#)



Legislation Text

File #: Inf 1584, **Version:** 1

Council Briefing Minutes (2020)



Seattle Council Committee Report Council Briefing

Remote Meeting. Call listen
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Monday, April 13, 2020, 9:30 AM

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Please Note: Times listed are estimated and public comment is not accepted during this meeting.

Meeting Start Time: 9:32 a.m.

Presiding Officer: Council President González

The following Councilmembers were present and participating by phone:

Present: 8 - M. Lorena González , Lisa Herbold, Debora Juarez, Andrew Lewis, Tammy Morales, Alex Pedersen, Kshama Sawant, Dan Strauss

Excused: 1 - Teresa Mosqueda

1. Approval of the Minutes

Inf 1584 Council Briefing Minutes (2020)

The Council Briefing Minutes of April 6, 2020 were approved.

2. President's Report

3. Inf 1628 Presentation by the Northwest Healthcare Response Network

The Information Item (Inf) was heard in Committee.

4. Preview of Today's City Council Actions, Council and Regional Committees

Inf 1579 City Council Agenda (2020)

The Information Item (Inf) was heard in Committee.

5. Executive Session on Pending, Potential, or Actual Litigation*

At 11:12 a.m., the Council moved into a 45-minute Executive Session regarding Pending Potential, or Actual Litigation. The Executive Session was extended by 15 minutes.

The Executive Session concluded at 12:14 p.m.

Meeting Adjournment Time: 12:14 p.m.

Prepared by: Jodee Schwinn, Deputy City Clerk



Legislation Text

File #: Inf 1624, **Version:** 1

Presentation on the Condition of the West Seattle Bridge

West Seattle High-Rise Bridge Safety Project



Presentation overview

- Background and what has changed since March 23
- Future of the bridge remains uncertain
- Stabilization and shoring, tentative schedule
- Phase I: Slow or halt bridge deterioration
 - Pier 18 stabilization and repairs
- Phase II: Shoring the bridge
- Phase III: Bridge repairs
- Technical Advisory Panel
- Order of magnitude budget

Background and what has changed

Background

- Bridge closed on March 23 due to rapid growth in cracking along the center section of the bridge
- The bridge was built to the standards, and using the best computation methods, of the day

Recent findings

- Recent inspections have found cracks continue to grow, but at slower rate, confirming immediate removal of live load was essential
- Crews are inspecting the bridge for new and growing cracks each day
- The bridge is safe for crews to work
- SDOT has a better understanding of stabilization timeline, but there is still uncertainty



Safety is top priority

- SDOT continues to inspect the bridge daily
- We are installing intelligent monitoring equipment to monitor any changes to the bridge in real time, with 24/7 alerts
- We are modeling potential cracking scenarios and preparing contingency plans
- These plans will enable rapid response to preserve public safety



Future of the Bridge Remains Uncertain

- SDOT does not yet know if repair of the bridge is feasible technically or financially
- If repair is feasible, it could provide up to 10 years of additional use
- We will need to replace the West Seattle High Bridge, the question is when
- We do not anticipate traffic returning to the bridge in 2020 or 2021
- We are committed to clear communication and transparency throughout



Stabilization and shoring schedule

- Ongoing—Continue field inspection and install instrumentation hardware/real time alerts
- Immediately—Pier 18 restraint release design
- Spring—Shoring and repair design begin, technical advisory panel for peer review launched
- Summer—Pier 18 restraint released; shoring materials procurement begins
- Late Fall—Shoring construction begins
- Early Spring 2021—Shoring construction complete

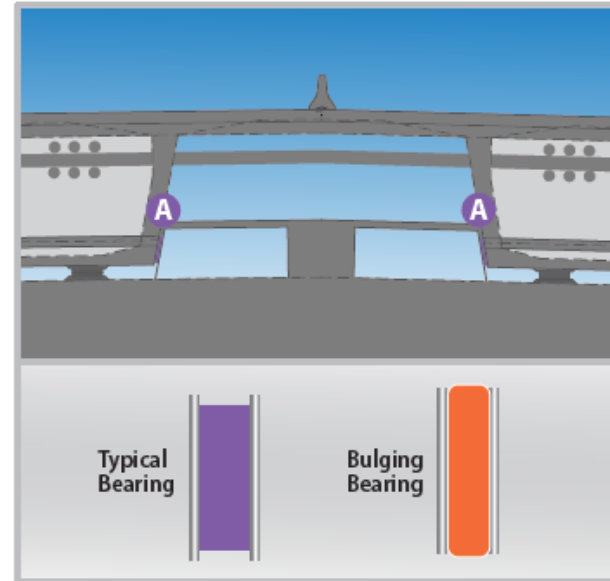
Phase I: Slow or halt bridge deterioration

- On March 23, SDOT discovered new cracking, confirming growth had rapidly increased over the prior two weeks
- Cracking has slowed since we removed live load, indicating that removing the weight of traffic has helped prevent worse damage
- Stabilization is intended to slow or stop the cracking and preserve the integrity of the bridge
- Next steps: continue to assess repair feasibility, timeline, and costs

What is a lateral bearing?

- Bridge bearings sit between the bridge's roadway and the support piers holding it up
- Bearings allow the bridge to move in response to traffic, normal concrete creep and shrinkage, thermal variations
- Pier 18 bearings are compressed and bulging, creating additional pressure and affecting the whole bridge

A Lateral bridge bearings



Lateral bridge bearings distribute pressure and allow the bridge to move in response to traffic loads, normal concrete creep and shrinkage, thermal variations, or even an earthquake.

B Pier 18 bearing

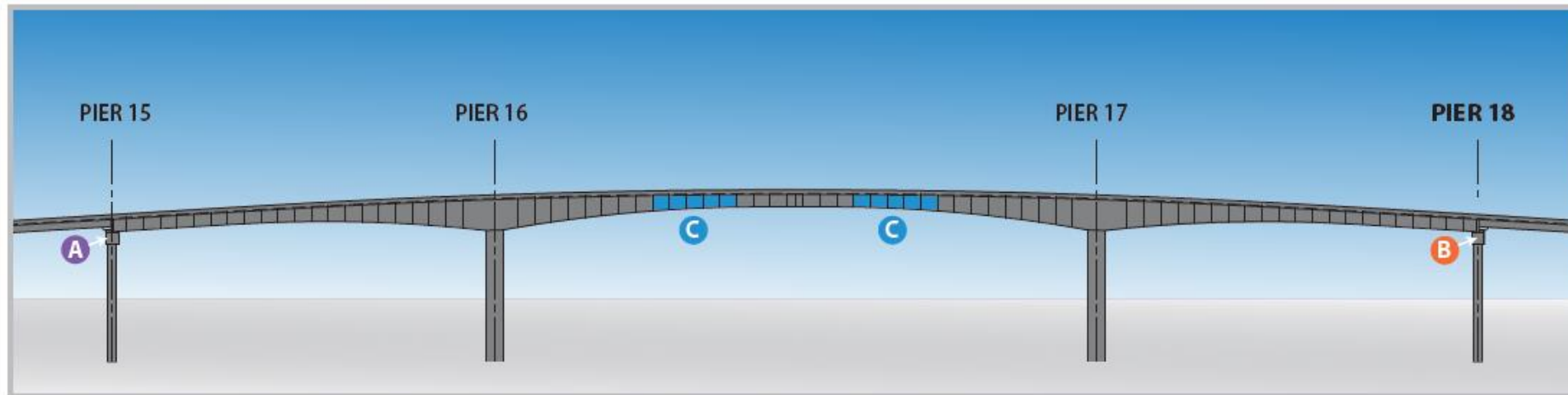


Pier 18's bearing is compressed, which means that the bridge cannot move as it should. Instead, the bearing is creating additional pressure on the surrounding area and affecting the bridge as a whole.

Stabilization through Pier 18 repairs

- To slow cracking, unlocking Pier 18 lateral bearing is the top priority for repair
- Repairing the locked bearing is contingent on bridge strength analysis to determine if the bridge can handle the stress
- SDOT is procuring a contractor to perform these immediate emergency repairs

West Seattle Bridge Pier 18 Repair



Phase II: Shoring the bridge to further stabilize



- The process of “shoring” means adding temporary support to the bridge to preserve its integrity and enable repairs
- Mid-2020 – obtain and build specially fabricated materials for shoring while Pier 18 repairs are made
- Late 2020 – Shoring Construction

Phase III: Bridge Repair



Key elements of uncertainty right now:

- Can bridge be stabilized before further deterioration makes repair infeasible?
- Will repair require permits to impact the navigation channel?
- Will repair require special fabrication or equipment?
- Is repair feasible technically or financially?

Phase III: Bridge Repair



- Repair of the West Seattle Bridge may not be possible
- We are at 0 percent design, and each step will impact what's feasible and how long it will take
- If repair is possible, we anticipate it could provide up to 10 years of additional use

Establishing Technical Advisory Panel

- The condition of the West Seattle High Bridge and the complexities of monitoring, design, and repair are complex
- The Technical Advisory Panel will provide qualitative review, insight, constructive feedback, and validation
- The Panel will consist of experts with experience in bridge design and construction, geotechnical engineering for bridge structures, and marine/maritime expertise

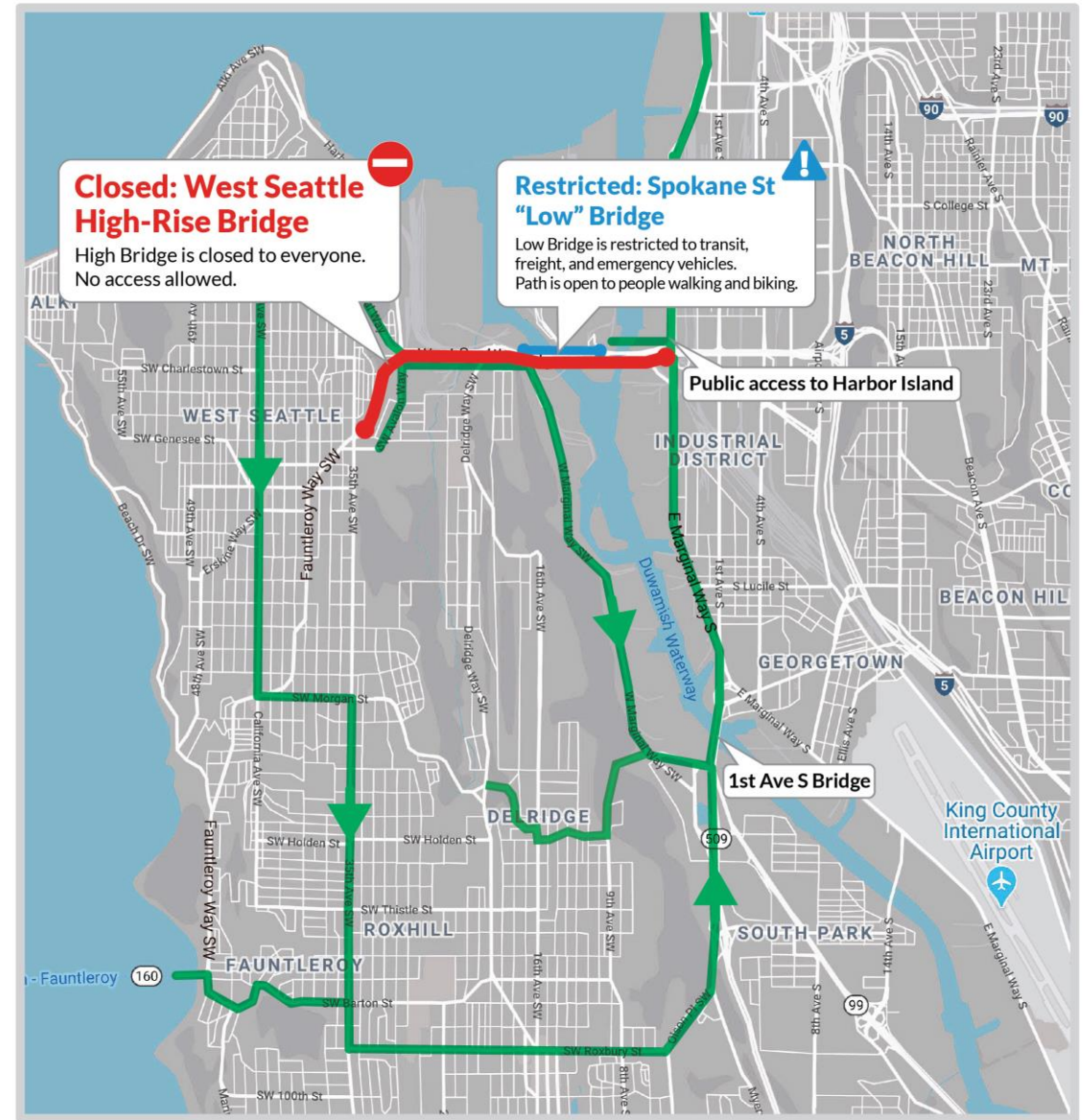
Traffic Mitigations — Low Bridge

- Closing the West Seattle Bridge has a similar level of complexity to our recent Viaduct closure, but with fewer re-route choices, and shorter timeline
- Low Bridge restricted to people driving emergency vehicles, freight trucks, and public transit
- Seattle Police Department is supporting enforcement
- Path open to people walking and biking
- Access to Harbor Island for general public via east channel bridge



Traffic Mitigations — Detour Routes

- Traffic signal installed at Highland Park Way SW and SW Holden St
- Detour route signage to 1st Ave S Bridge improved
- Signals at the five-way intersection connected to citywide system for remote monitoring adjustment. Repave intersection weekend of 4/24-26.
- Stripe, sign, and smooth alternative routes
- Additional measures to be identified



Traffic Mitigations - Transit

- SDOT and Metro are working closely to keep buses moving in and out of West Seattle as quickly as possible
- Metro has temporarily reduced service in response to the public health crisis, but is likely to add back service when restrictions are lifted
- SDOT and Metro are working on where we might need to increase service to address people's needs
- West Seattle buses are subject to bridge openings on the lower level bridge which can cause considerable delays
- SDOT and Metro are working together on data sharing and traffic monitoring that will inform reliability enhancements

Order of magnitude budget through shoring

Action	Estimated Cost
Monitoring*	\$2,000,000
Design*	\$6,000,000
Pier 18 repair construction	\$1,000,000
Shoring construction	\$15,000,000
Traffic control and mitigations*	\$3,000,000
Project Management, Communications, and outreach	\$1,000,000
Swing Bridge Maintenance*	\$5,000,000
Total	\$33,000,000
Repair	TBD

* Portions of these costs included in current programmatic budgets, but other deliverables may be affected

Bringing Community Together

- Work with West Seattle community and businesses to keep people informed, provide resources, and answer questions
- Share email updates with 1,000+ subscribers so they hear from SDOT about what's happening and how to get around
- Post blogs, new maps and graphics to help with commuting, and answers to important questions online
- Work closely with media, sharing news and answering questions for broader audiences
- Continue to build partnership with Department of Neighborhoods and Office of Economic Development to reach out to the broader community, freight, and maritime communities

Questions / Discussion

www.seattle.gov/transportation/westseattlebridge





Legislation Text

File #: Inf 1579, **Version:** 1

City Council Agenda (2020)



CITY OF SEATTLE

City Council

Agenda

Monday, April 20, 2020

2:00 PM

Remote Meeting. Call listen line at 206-684-8566 or access Seattle Channel online.

M. Lorena González, President

Lisa Herbold, Member

Debora Juarez, Member

Andrew J. Lewis, Member

Tammy J. Morales, Member

Teresa Mosqueda, Member

Alex Pedersen, Member

Kshama Sawant, Member

Dan Strauss, Member

Chair Info: 206-684-8809; Lorena.González@seattle.gov

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Council Chamber Listen Line: 206-684-8566

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CITY OF SEATTLE

City Council Agenda

April 20, 2020 - 2:00 PM

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Register online to speak during the Public Comment period at the 2:00 p.m. City Council meeting at

<http://www.seattle.gov/council/committees/public-comment>.

Sign-up registration will begin two hours before the 2:00 p.m. meeting start time and registration will end at the conclusion of the Public Comment period during the meeting. Speakers must be registered in order to be recognized by the Chair.

Submit written comments to all Councilmembers at

Council@seattle.gov

Sign-up to provide Public Comment at the meeting at

<http://www.seattle.gov/council/committees/public-comment>

Watch live streaming video of the meeting at

<http://www.seattle.gov/council/watch-council-live>

Listen to the meeting by calling the Council Chamber Listen Line at 206-684-8566

A. CALL TO ORDER

B. ROLL CALL

C. PRESENTATIONS

D. APPROVAL OF THE JOURNAL[Min 277](#)

April 13, 2020

Attachments: [Minutes](#)**E. ADOPTION OF INTRODUCTION AND REFERRAL CALENDAR**

Introduction and referral to Council committees of Council Bills (CB), Resolutions (Res), Appointments (Appt), and Clerk Files (CF) for committee recommendation.

[IRC 251](#)

April 20, 2020

Attachments: [Introduction and Referral Calendar](#)**F. APPROVAL OF THE AGENDA****G. PUBLIC COMMENT**

Register online to speak during the Public Comment period at the 2:00 p.m. City Council meeting at <http://www.seattle.gov/council/committees/public-comment>.

Sign-up registration will begin two hours before the 2:00 p.m. meeting start time and registration will end at the conclusion of the Public Comment period during the meeting. Speakers must be registered in order to be recognized by the Chair.

Members of the public may sign up to address the Council for up to 2 minutes on matters on this agenda; total time allotted to public comment at this meeting is 20 minutes.

H. PAYMENT OF BILLS

These are the only Bills which the City Charter allows to be introduced and passed at the same meeting.

- [CB 119777](#) AN ORDINANCE appropriating money to pay certain audited claims for the week of April 6, 2020 through April 10, 2020 and ordering the payment thereof.

I. COMMITTEE REPORTS

Discussion and vote on Council Bills (CB), Resolutions (Res), Appointments (Appt), and Clerk Files (CF).

CITY COUNCIL:

1. [CB 119769](#) AN ORDINANCE relating to land use review decision and meeting procedures; temporarily modifying and suspending procedures in Titles 23 and 25 of the Seattle Municipal Code and amending Chapters 23.41, 23.49, 23.66, 23.79, 25.12, 25.16, 25.20, 25.21, 25.22, 25.24, and 25.30 of the Seattle Municipal Code, consistent with the Governor's proclamations and the Mayor's proclamation of civil emergency on March 3, 2020; declaring an emergency; and establishing an immediate effective date; all by a 3/4 vote of the City Council.

Supporting Documents:

[Summary and Fiscal Note](#)

[Central Staff Memo](#)

[Amendment Table and Proposed Voting Sequence](#)

[Morales Substitute](#)

[Strauss Substitute](#)

[Mosqueda Amendment 1](#)

[Herbold Amendment 1](#)

[Strauss & Herbold Amendment 6](#)

[Herbold Amendment 2](#)

[Herbold Amendment 3](#)

2. [CF 314428](#) Full unit lot subdivision of Noren Development, LLC to subdivide one parcel into 21 unit lots at 8559 Mary Avenue NW (Project No. 3020999; Type III).

Attachments: [Application Material](#)

3. [CB 119776](#) AN ORDINANCE approving and confirming the plat of “Verona-Roy” in portions of the Southwest Quarter of Southwest Quarter of Section 36, Township 26 North, Range 3 East, W.M. in King County, Washington.

**Supporting
Documents:**

[Summary and Fiscal Note](#)
[Summary Att A – Vicinity Map](#)
[Central Staff Memo](#)

J. ADOPTION OF OTHER RESOLUTIONS

K. OTHER BUSINESS

L. ADJOURNMENT