West Seattle and Ballard Link Extensions

M2023-18: Preferred alternative for Ballard Link Extension

System Expansion Committee 03/09/23



Why we're here today

Motion No. M2023-18

A motion of the Board of the Central Puget Sound Regional Transit Authority to confirm or modify the preferred alternative light rail route and station locations for the Ballard Link Extension, for evaluation in the Final Environmental Impact Statement along with other alternatives.



Cost and schedule risks



Cost Risks

- Potential for additional costs associated with alternatives that cost more than anticipated in current financial plan.
- Potential for additional costs associated with permitting requirements.
- Potential impacts from higher real estate and construction costs.
- Potential that design or construction challenges could emerge as work progresses.

Schedule Risks

- Delays in identifying preferred alternatives and potential additional environmental process requirements.
- Potential permitting challenges and other necessary coordination/approvals associated with water crossings.
- Potential schedule risks associated with real estate acquisition process.
- Potential risk in processing reviews/approvals with permitting authorities in a timely manner.



Comparative estimates

- To *inform comparison* of further study concepts and end-to-end scenarios
- Consistent methodology to Draft EIS (2019\$), based on limited design
- Project budget established during realignment: \$12.2 billion



Schedule implications

Environmental phase:

 Additional environmental review is likely under any end-to-end scenario (~1 yr on top of already-incurred 10-month further studies delay)

Design phase:

 Scenarios including South Lake Union mix-and-match and CID 4th Shallow(er) will require additional time for coordination with third parties

Construction phase:

- Scenarios including CID 4th Shallow(er) will require additional time for construction (~2 yrs) due to 4th Ave viaduct reconstruction, traffic detour phasing, etc.
- Potential risk of additional delay for CID 4th Shallow(er) due to poor ground conditions, deep Midtown station, proximity to BNSF and existing downtown transit tunnel, phasing of Link closures



Prior Board action

Motion No. M2022-57

Confirms or modifies the preferred light rail route and station locations for the West Seattle and Ballard Link Extensions Final Environmental Impact Statement and requesting further studies in some areas to inform potential additional future Board action to confirm or modify the Preferred Alternative.



Board process

- Jan 26, Board: Further Studies results overview
- Jan 26 Feb 17: Gather additional community feedback
- Feb 9, SEC: Further Studies results deeper dive
- Feb 23, Board:Community feedback summary
- Mar 9, SEC: Recommendation to Board
- Mar 23, Board: Board identifies preferred alternative for Ballard Link Extension



Areas of Further Study



Responses to items requested at February board meeting

Proposal: Union Station Activation and Jackson Hub

Context

- Preliminary concepts informed by past planning studies, recent community input and interagency RET workshops
- Further design, engineering and community engagement required
- Relies on partnerships with City of Seattle, King County and potentially others and would require additional funding



Community feedback themes

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Activation of Union Station and surrounding plazas

- Clean up existing plaza and open-up sightlines; update paving, landscaping and public art; enhance lighting; revise entry canopies to offer clearer access to existing light rail station and improve sense of safety
 - Activate Union Station and surrounding plaza with spaces for a range of active and passive uses, such as community gathering, food kiosks, performances, retail, information booths and more

Royal Brougham Wy

S

6th Ave S

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Improvements and TOD opportunities at new stations

- Equitable TOD and partnership
- Entrance north of Seattle Blvd

Royal Brougham Wy

S

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- Street improvements and new public space north of Seattle Blvd
- Pedestrian bridge over BNSF and new Sounder entrance at Seattle Blvd

6th Ave S

Equitable TOD and KC Civic Campus Master Plan partnership
Reconfigured and additional

Cherny St

Pioneer Square Park

Occidental Park

2nd AVE EXTS

S

Washingt

S

Danny Woo

Community

Garden/

Terrace

Kobe

S

Main

S

entrances at interchange hub Park, street, and public realm improvements

Preliminary concepts informed by past planning studies and recent community input. Further design, engineering and community engagement required. Relies on partnerships with City of Seattle, King County and potentially others and would require additional funding.

Weller S

S

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Hay

Park

King St

S

St

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3

4th Ave S

5th Ave S

6th Ave S

5

2nd Ave S

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Potential next steps

- Regardless of the location of the CID station, south downtown would benefit from Union Station activation and Jackson Hub improvements.
- Building upon the recent further studies effort and past community and agency planning efforts, the Sound Transit staff could work with the City of Seattle, King County and other potential partners, and through engagement with community, to clarify the potential scope and schedule of such improvements as well as funding and partnership opportunities.
- Staff would report back to the Board on the above in advance of Board selection of the project to be built.



Construction mitigation approach at Denny station

Sewer on Westlake Avenue

- Sewer relocation approach has been refined
- Sewer can be replaced and maintained within Westlake Avenue right of way throughout construction
- No utility relocation to other corridors





Potential construction refinement concept

- Goals:
 - Reduce construction staging footprint in public ROW
 - Maintain traffic on Westlake Avenue during construction
- Refinement concept:
 - Shift station location north of Denny Way
 - Increase off-street construction staging area to facilitate use of temporary decking to maintain traffic



Passenger experience



²² CID transfer comparison





²³ North of CID station transfer







²⁴ North of CID station PX opportunities



Example Modified Preferred Alternative



²⁶ Example modified preferred alternative



Station North of CID and Station South of CID

Compared to Refined 4th Avenue Shallow Station (CID-1a)



²⁷ Example modified preferred alternative



Denny Station at Westlake Ave (DT-1)

Compared to Denny Station at Terry Ave (DT-2) with Mix-and-Match



²⁸ Example modified preferred alternative



Seattle Center Station shifted west on Republican

Compared to Seattle Center Station at Mercer (DT-2) with Mixand-Match



²⁹ Example modified preferred alternative



Modified SIB-1 Alignment

Compared to Consolidated Alignment



³⁰ Example modified preferred alternative



Tunnel 15th Ave Cost Savings

Compared to Tunnel 14th Ave (IBB-2a)





³¹ Example modified preferred alternative





³² Example modified preferred alternative



West Seattle Link Extension end-to-end scenario



³⁴ **Preferred alternative refinements**





Example modified preferred alternative funding assumption per M2022-57

- Ballard example modified preferred alternative (\$150 million) + West Seattle preferred alternative refinements (\$130 million) = +\$280 million
- All CID options would benefit from Union Station activation / Jackson Hub improvements which would *require additional funding and partnerships*
- Through coordination with the City of Seattle Mayor's office and King County Executive's office, there is *up to \$400 million in potential funding* through various sources including publiclyowned property, value capture from increased development, and in-kind contributions. Anticipate receiving Letters of Intent before March board meeting.
- City and County to work with Sound Transit to further analyze costs and funding sources over the next year and develop a *funding agreement* in advance of Board action to select a project to be built



Upcoming Board Process

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