West Seattle and Ballard Links Extensions

Draft EIS results overview

1/27/2022



Why we are here

- To announce start of Draft EIS comment period
- To provide brief overview of Draft EIS results

For information only; no action required today



WSBLE and Realignment

- The current cost estimate for the WSBLE project is \$12,158 million in 2019\$ and is affordable within the Agency's Finance Plan by 2039.
- For the West Seattle Extension, the Target and Affordable schedules are the same (2032).
- For the Ballard Link Extension, Staff are managing the project toward the Target Schedule of 2037, while working to close an affordability gap of \$1,800 million (2019\$).

Project background



West Seattle and Ballard Link Extensions project (WSBLE)

- ✓ Included in Sound Transit 3 (ST3) plan
- ✓ Two light rail extensions and new, light rail-only downtown tunnel
- ✓ 12 miles of light rail service that will serve 14 stations

Operating plan: 2032



Operating plan: 2042







West Seattle and Ballard Link Extensions

Project timeline







2016



PLANNING



2017-2019

Alternatives development

- Feb-March 2018: Early scoping
- Feb-April 2019: Scoping
- May-Oct 2019: Board identified preferred alternatives and other DEIS alternatives

2019-2023

Environmental review

Early 2022: Publish Draft EIS

Public comment period

Board confirms or modifies preferred alternatives

2023: Publish Final EIS

Board selects projects to be built

Federal Record of Decision



Alternatives development screening process

Broad range of initial alternatives

Refine remaining alternatives

Further evaluation

Preferred alternative(s) and other EIS alternatives



Ballard < 2037-2039* **Interbay** Lake 2037 **Seattle South Center Lake Union** Smith Cove Denny **Link** light rail Westlake West Seattle and Ballard Midtown **Link Extensions** Preferred alternatives Preferred alternatives with Int'l District/ Puget third-party funding Sound Chinatown Other Draft FIS alternatives Stadium Route profiles Flevated route Tunnel route Surface route SODO 🕹 Delridge Junction **Marian**

Draft EIS alternatives

What we're studying in this phase

- Preferred Alternatives
- Preferred Alternatives with Third-Party Funding
- Other Draft EIS alternatives

*Dates reflect an affordable schedule based on current financial projections and cost estimates, and a target schedule.





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Community engagement

Upcoming community engagement



Publish Draft EIS

Friday, January 28th



Collect public feedback

Comment period ends April 28th

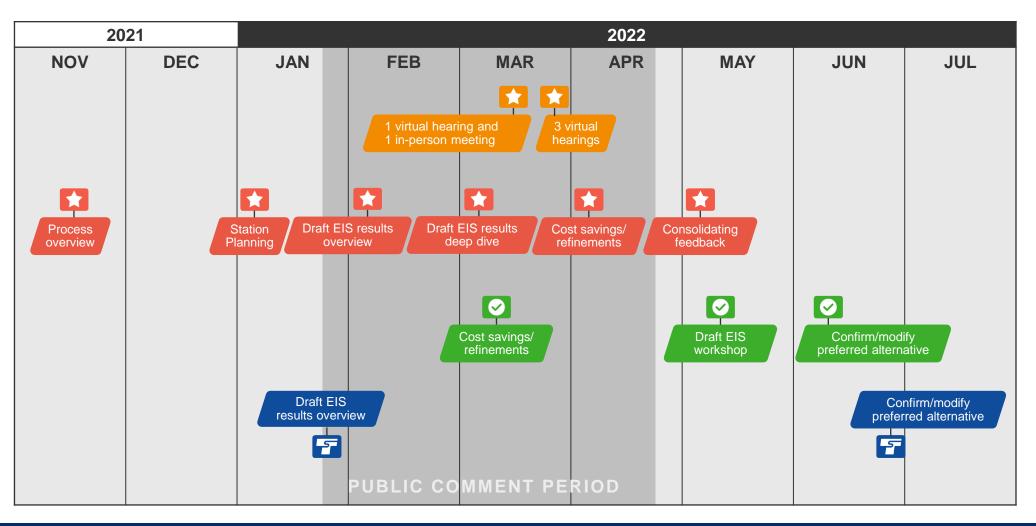
Community engagement and collaboration Draft Environmental Impact Statement (EIS)













Upcoming community engagement

Online open house (v) wsblink.participate.online

Community Advisory Groups: 4 meetings/month through May

Draft EIS meetings: 4 virtual, one in-person in March

Draft EIS mailer: delivered to 130,000 addresses

Other activities/events including community briefings; fairs, festivals and tabling events; property owner webinars; office hours; community liaison outreach



Draft EIS results overview

What is typically studied in an EIS?



- Regional transportation
- Transit services
- Arterial and local street systems
- Parking
- Non-motorized facilities
- Navigation
- Freight



- Air quality and greenhouse gas emissions
- Ecosystems
- Water resources
- Geology and soils

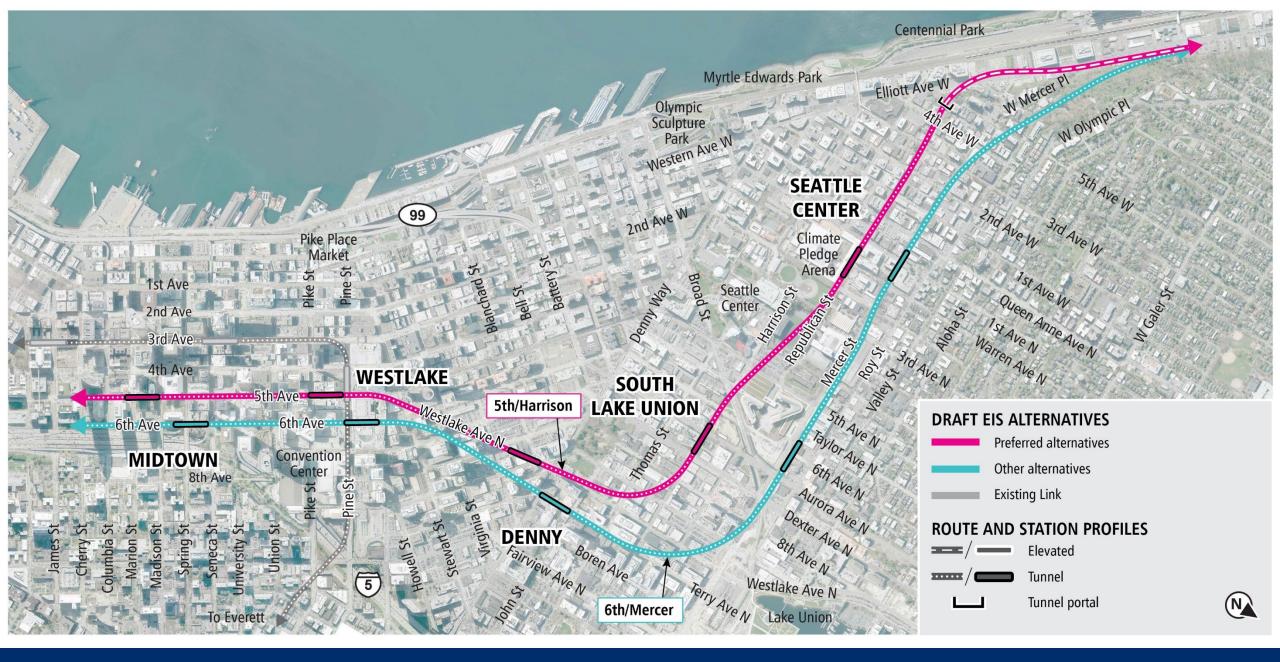


Built environment

- Acquisitions, displacements and relocations
- Noise and vibration
- Economic effect
- Visual resources
- Parks and recreation
- Land use
- Energy
- Hazardous materials
- Public services
- Historic and archaeological resources
- Social resources, community facilities and neighborhoods
- Electromagnetic fields
- Utilities







		5th/Harrison	6th/Mercer	
Project cost (2019\$ in dollars)	6	\$4.7-4.9B	\$4.9-5.0B	
Residential displacements	A	26 units	167 units	
Business displacements		44 to 46	47	
Historic properties effects	m	3	9	
Park effects (permanent)	•	1 park (0.4 acres)	2 parks (0.6 acres)	
Traffic effects (full closures)		5 to 8 roadways	4 roadways	
		Construction groundborne noise/vibration effects 2 sensitive uses in South Lake Union5 sensitive uses in Seattle Center	Construction groundborne noise/vibration effects	
Other		Disruption to Streetcar operation during construction (Westlake Ave)	Disruption to Streetcar operation during construction (Terry/Thomas)	
considerations	⊕(Connects to all CID alternatives	Connects only to CID shallow alternatives	Th illu
		Connects to both Galer Street Station (preferred)	Connects only to Prospect Street Station	to

and Prospect Street Stations in South Interbay

in South Interbay

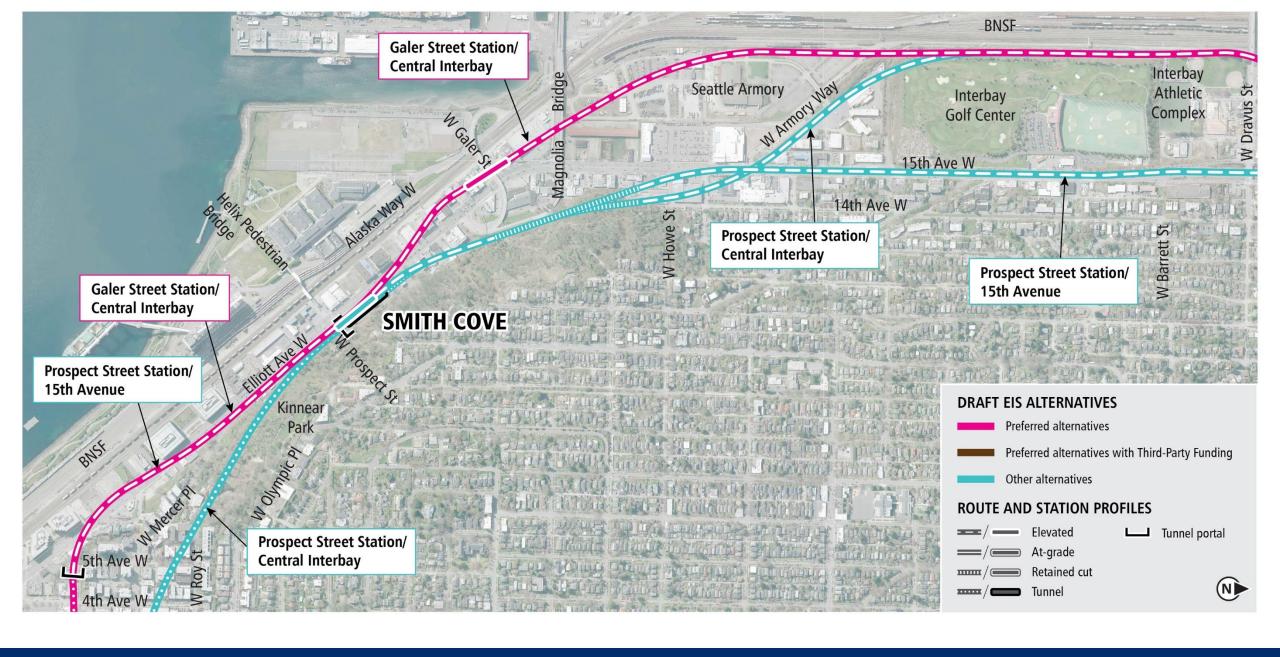
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Performance

Lower performing ←→ Higher performing



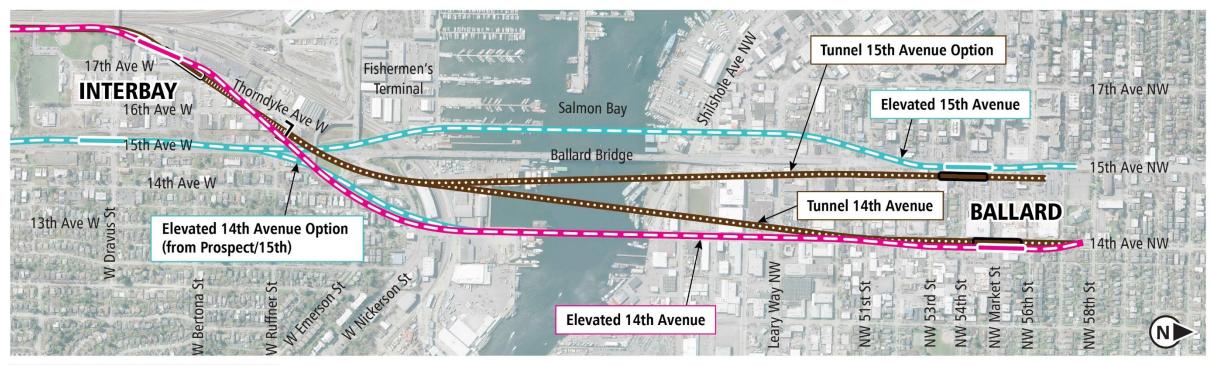


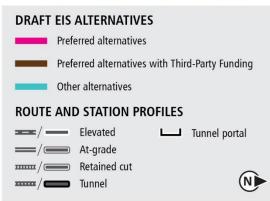


	Galer Street Station/ Central Interbay	Prospect Street Station/ 15th Avenue	Prospect Street Station/ Central Interbay	
Project cost (2019\$ in billions)	\$1.3B	\$1.4-1.5B	\$1.5-1.6B	
Residential displacements	174 units	123 units	5 units	
Historic properties effects	7	8	2	
Park effects (Permanent)	3.1 acres	0.7 acres	4.0 acres	
Biodiversity effects (Permanent)	<0.1 acre	3.8 acres	5.5 acres	
Roadway effects (Guideway)	0.4 mile	1.0 mile	0.1 mile	
Other considerations (9)		Queen Anne hillside steep slopes	Queen Anne hillside steep slopes	
	The above information is for illustration only. Please	The above information is for illustration only. Please refer to DEIS for further detail.		









		Elevated 14th Avenue	Tunnel 14th Avenue	Tunnel 15th Avenue Option	Elevated 14th Avenue Option (from Prospect/15th)	Elevated 15th Avenue
Project cost (2019\$ in billions)	(3)	\$1.5-1.6B	\$1.5B	\$1.7B	\$1.6B	\$1.5B
Residential displacements	A	105 units	14 units 21 units		151 units	25 units
Historic property effects	m	7	4	3	7	10
Employee displacements	Я.	610	380	370	400	620
In-water effects (Permanent)	()	1.2 acre	none none		1.2 acre	0.8 acre
Other considerations	Ф.	Maritime business displacements Boat ramp and stormwater outfall relocation		Construction closures on 15th	Maritime business displacements Boat ramp and stormwater outfall relocation	Maritime business displacements Delays from bridge opening
	Perfo The above information is for illustration only. Please refer to DEIS for further detail.					rformance ver performing ←→ Higher performing

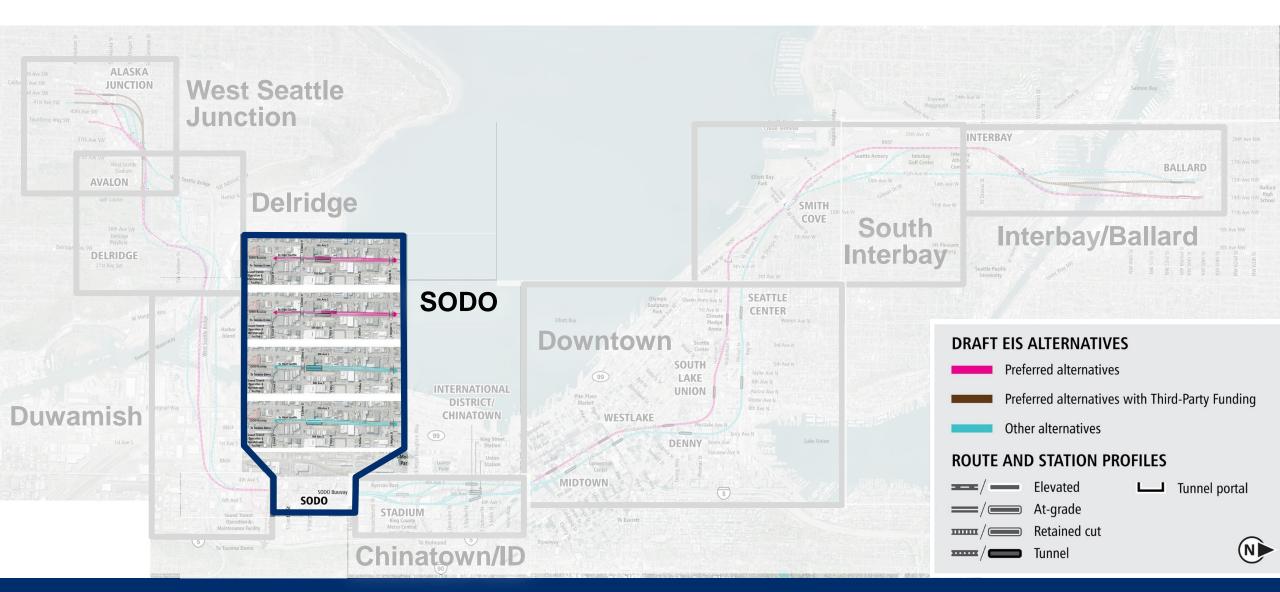


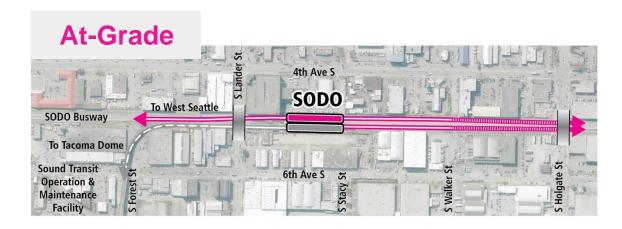


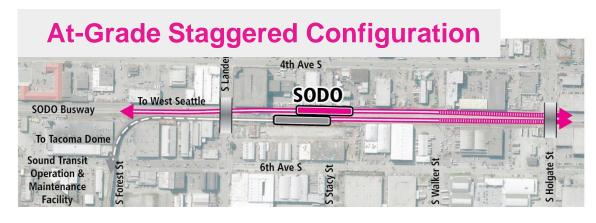


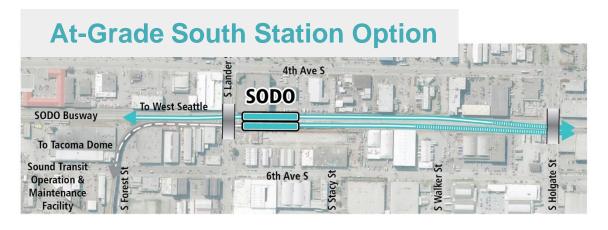
	4th Shallow	4th Deep	5th Shallow	5th Shallow Diagonal Station Configuration	5th Deep
Project cost (2019\$ in billions)	\$1.8B (+\$100M)*	\$1.7B (+200M)* \$1.2-1.3B		\$1.2-1.3B	\$1.3B <i>(+200M)</i> *
Residential displacements	120 units	none	none	none	none
Business displacements	5 to 8	5	19	19	18
Platform access ர்Д		Elevator only			Elevator only
	Station construction duration (9 to 11 years)	Station construction duration (8 to 10 years)	Station construction duration (8 to 9 years)	Station construction duration (5 to 6 years)	Station construction duration (6.5 to 7.5 years)
	Detours 15,000 vehicles per day (6 years)	Detours 30,000 vehicles per day (6.5 years)	Detours 5,000 vehicles per day (9 months)	-	-
Construction .	Disrupts streetcar operations (2 years)	Disrupts streetcar operations (2 years)	Disrupts streetcar operations (6 months)	_	1
effects	Relocates major utilities	Relocates major utilities	Relocates major utilities and utility corridor	Avoids major utility relocations	Avoids major utility relocations
	Closes Stadium Station (up to 2 years)	_	_	-	-
	Link light rail closure ** (6 to 7 weeks)	_	Re-routes trolley bus (to 7th or 8th Ave S)	Temporary closure: 8 businesses (< 1 year)	1
	Connects to all Downtown alternatives	Connects only to Downtown 5th Ave/ Harrison St.	Connects to all Downtown alternatives	Connects to all Downtown alternatives	Connects only to Downtown 5th Ave/ Harrison St.
Other considerations	Connects to all SODO Alternatives	Connects only to SODO At- Grade South Station Option	Connects to all SODO alternatives	Connects to all SODO alternatives	Connects to SODO At- Grade, SODO At-Grade
*Additional cost to the preferred alternative in the Downtown Segment as compared to the 5th Shallow connection)	Affects Ryerson Bus Base	Displaces Ryerson Bus Base		Performance	Staggered Station Configuration and SODO
** Between SODO and International District/Chinatown stations	The above information is for illustration only. Please refer to DEIS for further detail.		Lower performing ←→ Higher performing	At-Grade South Station Option	

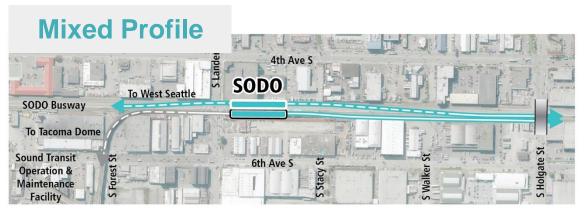


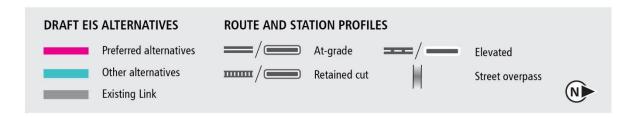






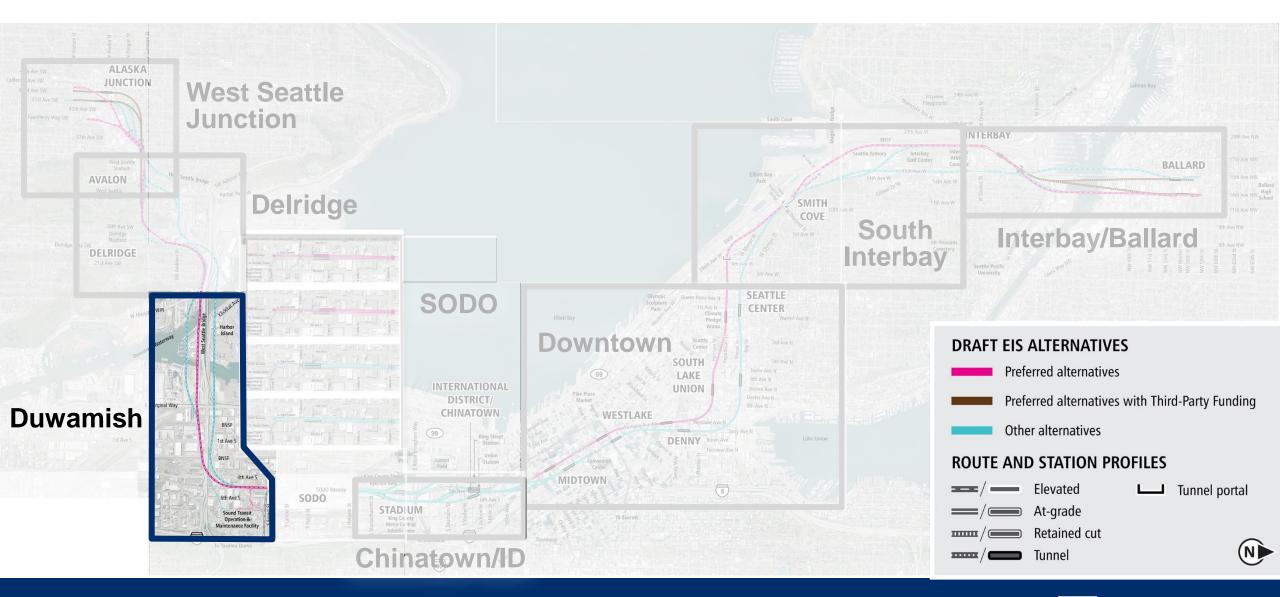


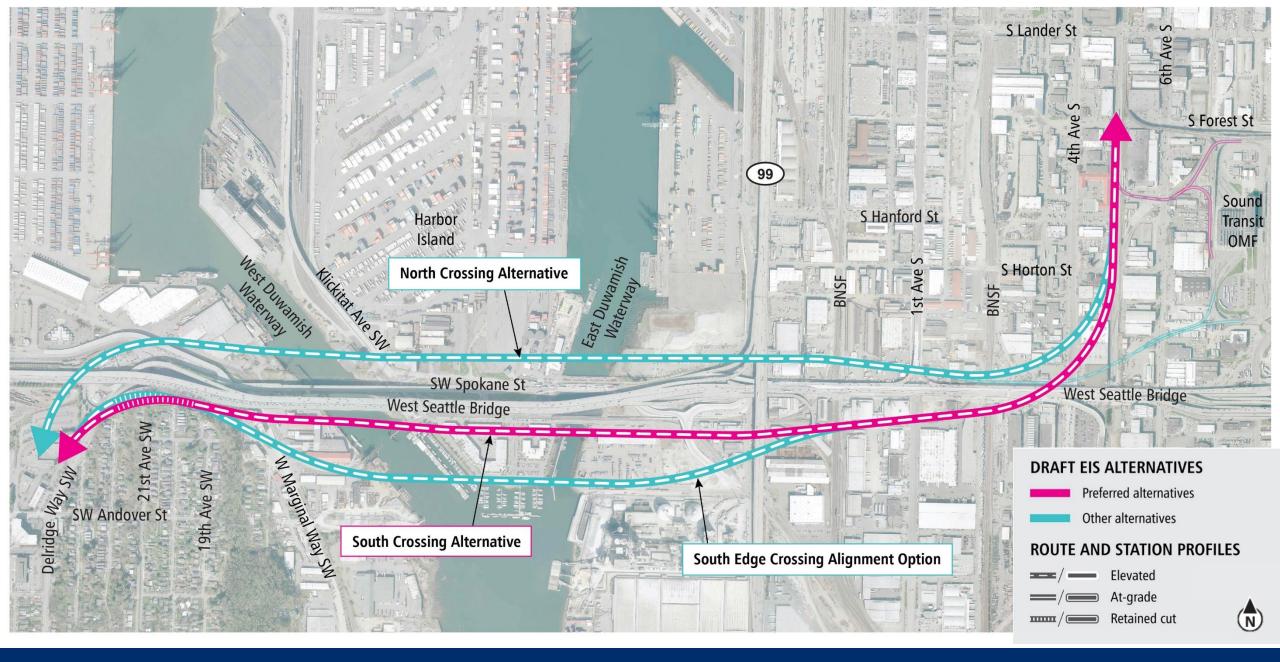




	At-Grade	At-Grade Staggered Station Configuration	At-Grade South Station Option	Mixed Profile	
Project cost (2019\$ in billions)	\$0.6-0.7B	\$0.5-0.6B	\$0.6-0.7B	\$0.8B	
Business displacements	20 to 32	19 to 31	17 to 29	23	
Transportation effects	SODO Busway (permanent closure)	SODO Busway (permanent closure)	SODO Busway (permanent closure)	SODO Busway (temporary closure 10 years)	
Construction effects	S. Lander Street closure (2 years)	S. Lander Street closure (2 years)	S. Lander Street closure (3 years)	S. Lander Street closure (nights/weekends)	
	Two new grade separated crossings	Two new grade separated crossings	Two new grade separated crossings	One new grade separated crossing	
Other expensions expensions	Connects to CID 4th Shallow, 5th Shallow, 5th Shallow Diagonal and 5th Deep	Connects to CID 4th Shallow, 5th Shallow, 5th Shallow Diagonal and 5th Deep	Connects to all CID alternatives	Connects to CID 4th Shallow, 5th Shallow and 5th Shallow Diagonal	
	The above information is for illustration only. Please refer to DEIS for further detail.	Avoids USPS relocation		Performance Lower performing ←→ Higher performing	



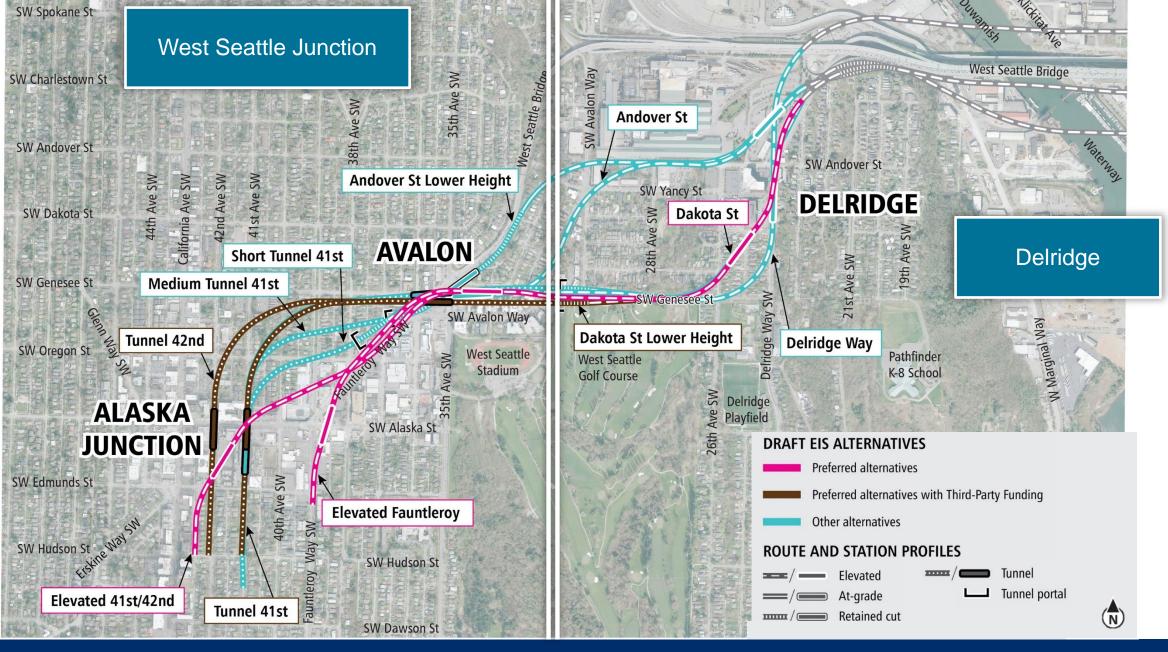




	South Crossing Alternative	South Edge Crossing Alignment Option	North Crossing Alternative
Project cost (2019\$ in billions)	\$1.2B	\$1.3B	\$1.5B
Residential displacements	26 units	26 units	none
Business displacements	36	29	38
Maritime Business displacements	3	5	10
Park effects (permanent)	1.5 acres	1.9 acres	none
Other considerations (4)	Pigeon Point constructability BNSF bridge constructability	Pigeon Point constructability In-water columns necessary Marinas	Port of Seattle T-5 & T-18 T-25 restoration site Fire Station 14 effects
	The above information is for illustration only. Please refe	r to DEIS for further detail.	Performance Lower performing ←→ Higher performing







	Elevated Fauntleroy Dakota St	Elevated 41st /42nd Dakota St	Tunnel 41st Dakota St Lower Height	Tunnel 42nd Dakota St Lower Height	Short Tunnel 41st Dakota St	Medium Tunnel 41st Andover St Lower Height	Elevated Fauntleroy Andover St
Project cost (2019\$ in billions)	\$1.6B	\$2.0B	\$2.1B	\$2.2B	\$1.9B	\$1.6B	\$1.5B
Residential displacements	607 units	551 units	364 units	321 units	410 units	201 units	487 units
Business displacements	32	77	31	60	34	35	34
Park effects (permanent)	0.6 acres	0.6 acres	1.4 acres	1.6 acres	0.5 acres	none	none
	Taller guideway/ Delridge Station	Taller guideway/ Delridge Station	Lower guideway/ Delridge Station	Lower guideway/ Delridge Station	Taller guideway/ Delridge Station	Lower guideway/ Avalon Station	Taller guideway/ Delridge Station
Other Considerations Social service provider	Social service provider	Social service provider	Tunnel Avalon and Alaska Jnct. stations	Tunnel Avalon and Alaska Jnct. stations	Tunnel Alaska Jnct. station	Guideway follows West Seattle Bridge	Guideway follows Avalon Way SW
			Social service provider	Social service provider	Social service provider	Delridge Station further north	Delridge Station further north
						Tunnel Alaska Jnct. Station	
	The above information is t	or illustration only. Please refe	er to DEIS for further detail.			Performance	



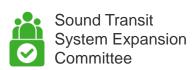
Lower performing \longleftrightarrow Higher performing

Next steps

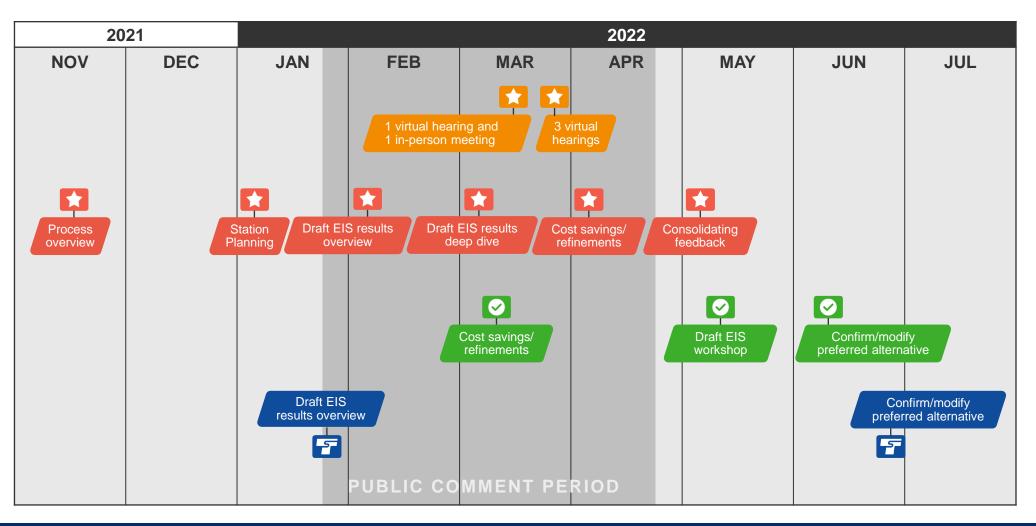
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Upcoming Community Advisory Groups Draft EIS results overview



Interbay/Ballard Community Advisory Group

Wednesday, February 2, 2022 from 5pm to 7pm

Downtown Community Advisory Group

Thursday, February 3, 2022 from 5pm to 7pm

West Seattle/Duwamish Community Advisory Group

Tuesday, February 8, 2022 from 5pm to 7pm

CID/SODO Community Advisory Group

Wednesday, February 9, 2022 from 5pm to 7pm

Advisory group meetings are livestreamed and recorded. For more information and meeting links, visit: wsblink.participate.online



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