

Appendix O.2.2
Agencies and Elected Officials

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Appendix O.2.2.1, Federal Agencies

Comments were received from the following Federal Agencies:

- U.S. Coast Guard
- U.S. Department of Interior
- U.S. Environmental Protection Agency
- U.S. Postal Service

The following attachments provide these submittals in the order listed above, along with responses to comments.

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U.S. Department of
Homeland Security

United States
Coast Guard



Commander
Thirteenth Coast Guard District

915 Second Avenue
Seattle, WA 98174-1067
Staff Symbol: dpw
Phone: (206) 220-7282
Email: steven.m.fischer3@uscg.mil

29 April 2022

Lauren Swift
Central Corridor Environmental and Business Operations Manager
Sound Transit
401 South Jackson Street
Seattle, WA 98104

Linda M. Gehrke
Regional Administrator
U.S. Department of Transportation
Federal Transit Administration
915 Second Avenue, Suite 3142
Seattle, WA 98174-1002

RE: Sound Transit West Seattle and Ballard Link Extensions DEIS

Dear Ms. Swift and Ms. Gehrke:

U.S. Coast Guard District 13 respectfully submits the following comments on the Sound Transit West Seattle and Ballard Link Extensions (WSBLE) Draft Environmental Impact Statement (DEIS).

In order for the USCG to adopt the bridge-related portions of the EIS, we will need the following information to be provided as part of the final EIS. We recognize that some of the items may not be available at this time. Required information includes:

1. Include consultation/coordination and the status (e.g., pending, obtained, etc.) of the issuance of a Water Quality Certification under the Clean Water Act.
2. Include consultation/coordination documentation with USACE regarding wetland mitigation measures taken in accordance with Executive Order 11990.
3. Include a statement clearly certifying that the project is consistent with Coastal Zone Management Programs and has or will receive Washington State concurrence.
4. Include the 100 year flood elevation in the vicinity of proposed bridges crossing waterways.
5. Include the date of the Biological Assessment or the document itself. Also include the timeline and correspondence related to consultation with U.S. Fish and Wildlife Service and National Marine Fisheries Service regarding the Endangered Species Act, Magnuson-Stevens Fisher Conservation and Management Act, Fish and Wildlife Coordination Act.

6. The EIS states that Sound Transit would monitor during construction to prevent marine mammal harassment; however, they should more clearly state if a take of marine mammals is anticipated. Correspondence related to the Marine Mammals Protection Act should also be included.
7. Chapter 1 Purpose and Need. This section describes numerous benefits of the project to improve light rail transit systems that will support existing and future regional growth in population, employment and the economy. However, although Seattle is a maritime community and the project will cross two major Seattle waterways that are also vital to the regional economy and marine transportation (Duwamish Waterway and the Lake Washington Ship Canal), the Purpose and Need section is silent on the need to protect the resource of navigation on the marine transportation system (MTS). Certain bridge alternatives presented in the DEIS would permanently reduce navigational clearances or eliminate access to marine facilities on the two waterways. The provision of improved surface transit facilities with the WSBLE should not be at the expense of the loss or impairment of marine navigation on the MTS.
8. Section 2.1.2.1.2 briefly describes three alternatives for crossing the Duwamish Waterway (Alternatives DUW-1a and DUW-1b (both southern crossings) and DUW-2 (northern crossing)). For each of these alternatives, the narrative states the vertical clearance of the alternative in feet over the West channel of the waterway, but does not include horizontal clearance information and is unclear about clearances over the East channel. However, Section 3.9 does include the vertical and horizontal clearances for each alternative in the narrative sections for each alternative. To aid comparisons, the navigational clearance information for each alternative for both East and West channels should be clearly shown in a table, as well as clearance data for existing bridges.
9. Chapter 3 Transportation Environment and Consequences. Section 3.9 evaluates impacts to navigation for bridge alternatives that would cross the Duwamish West and East Channels. DUW-1a and 1b are located near the existing navigational obstructions of the Spokane Street Bridge, West Seattle Bridge and BNSF railroad bridge. Alternative DUW-1b is similar to DUW-1a, but is located further south (upstream) of Alternative DUW-1a, and may require in-water piers and have greater impact on navigation on the MTS near marine facilities, mainly recreational marinas and docks near the south end of Harbor Island. According to the DEIS, approximately 20% of such facilities would be permanently displaced, and replacing them is “unlikely”. Alternative DUW-2, located approximately 150 feet north of the existing obstruction of the Spokane Street Bridge, would become the new, first vertical and horizontal obstruction on both East and West channels. Further, it would cross over federal navigation projects maintained by the Corps of Engineers in both channels. DUW-2 would have 100 feet of vertical clearance and 315 feet of horizontal clearance (reduced from an existing clearance of 400 feet). The new obstruction caused by the DUW-2 crossing, with its reduced navigational clearances could affect the ability of vessels to navigate in this portion of the federally maintained channel. Additionally, DUW-2 would displace the most marine-oriented businesses. Alternatives DUW-1a and 1b would not affect the Corps of Engineers maintained navigation channels and according to the DEIS, Alternative DUW-1a may be able to

avoid in-water piers. The Coast Guard favors alternatives with the least impact to navigation and preservation of navigation access to marine facilities. From the information presented in the DEIS, Alternative-1a appears to have the least impact to navigation and access to marine facilities.

10. In a letter dated 4 January 2022, the Coast Guard issued a “Preliminary Navigation Clearance Determination” letter (PNCD) for the West channel, specifying minimum navigational clearances of 140 feet vertical and 250 feet horizontal. Any crossing of the West channel must meet these minimum clearances.

11. Section 3-1 Summary, “Table 3-1 Key Findings,” contains the following statement regarding navigation on the Duwamish Waterway:

“Alternative DUW-2 would cross over a navigation channel in the East Waterway approximately 150 feet north of an existing barrier to navigation and would reduce the horizontal clearance and the area available for navigation and maneuvering.”

This statement should refer readers to where navigation clearance information is available. As previously stated, the actual proposed vertical and horizontal navigational clearances in feet for each bridge alternative should be provided in a table for the crossings of the Duwamish Waterway and the Lake Washington Ship Canal. Additionally, the clearances of existing bridges or other obstructions should be included in the same table for ease of comparison. We recognize that this information is available in the navigation impact reports. However, it should also be available in the main NEPA document for ease of access for interested parties and for use in evaluation of alternatives in relation to the affected environment.

12. Table 3-1 contains the following statement regarding the Link crossings of the Lake Washington Ship Canal (LWSC):

“All bridge alternatives for the Ballard Link Extension would meet or exceed the governing limitations on the Ship Canal navigation channel.”

13. This statement is not correct for the bridge alternatives presented in the DEIS, as two of the three alternatives for crossing the LWSC are proposed to have a maximum fixed vertical clearance of 136'. These bridge alternatives are clustered near the existing Ballard Bridge, at approximate waterway mile 1.1. As a drawbridge, the Ballard Bridge has unlimited vertical clearance when in the open position. A fixed bridge at this location and with a vertical clearance of 136' would become the new, first navigational obstruction on the LWSC and would block access of many vessels to upstream areas and marine services along the LWSC. Table 3-1 should be corrected to describe these conditions and all bridge alternatives for crossing the LWSC should indicate navigational clearances that meet or exceed those stated in the Coast Guard PNCD letter of February 8, 2022.

14. Additionally, this entire section and Table 3-1 are silent on tunnel alternatives for crossing the LWSC. This Table should be revised to include a discussion of “key findings” of tunnel alternatives.
15. Section 3.17 addresses impacts to navigation of the various alternatives for crossing the LWSC. Briefly, Alternatives IBB-1a and 1b would have proposed vertical clearances of 136 feet and become the new, first navigational obstruction on the LWSC. Alternative IBB-3 would be a drawbridge (either a vertical lift or bascule type) with 70-80 feet of vertical clearance when in the closed position and un-stated vertical clearance in the open position. There are also two tunnel alternatives that would have no impact to navigation (Alternatives IBB-2a and 2b).
16. On 8 February 2022, the Coast Guard issued its Preliminary Navigation Clearance Determination letter (PNCD), stating minimum navigational clearances of 205 feet vertical and 290 feet horizontal for the LWSC. Any chosen bridge alternatives will need to meet these minimum clearances.
17. Section 3.17.3 states the tunnel alternatives would not have impacts to navigation and therefore are not discussed further. This does not adequately inform the reader of the positive aspects of the tunnel alternatives. Stated another way, the impacts avoided or reduced should be identified and the reader referred to the alternatives evaluation in Chapter 6, which is more informative on this subject.
18. On page 3-3 of Chapter 3, in the Navigation discussion box, add a bullet noting that the horizontal and vertical clearances of bridges will be coordinated through the U.S. Coast Guard through the bridge permitting process under the General Bridge Act of 1946, not through the NEPA process.
19. On page 3-43 of Chapter 3, delete “In the East Waterway, vessels are unable to pass the Spokane Street (fixed) Bridge, as it is considered an obstruction to navigation (National Oceanic and Atmospheric Administration 2019), with a vertical clearance of 5 feet.” Replace with “In the East Waterway in the vicinity of the fixed Spokane Street Bridge, obstructions limit navigation under the bridges.” Navigation isn’t completely blocked to all vessels (e.g. non-motorized watercraft), only the majority. If the waterway was completely blocked, the blocking structure(s) would be called a causeway, not a bridge.
20. On pages 3-47 (line 1 and line 21) of Chapter 3, delete the instances noting the Spokane Street Bridge “, which is considered a barrier to navigation.” End the sentences after Spokane Street. Vessels are limited by the governing vertical clearance, but not all are barred from navigating in the vicinity.
21. On pages 3-47 and 3-113 of Chapter 3, add a sentence to the end of each Mitigation for Operation Impacts sections stating that “Proposed aids to navigation would be approved by the U.S. Coast Guard prior to installation.”

22. On page 3-57 (line 13) and 3-138 (line 18) of Chapter 3, sections 3.11.3.6.1 and 3.19.6.6.1, add a statement to the end of the first paragraph that “All waterway closures would be coordinated through and approved by the U.S. Coast Guard.”
23. Chapter 4 –Affected Environment and Environmental Consequences
This chapter addresses certain topics of the “affected environment” and is silent on other topics that will be required for a complete Coast Guard bridge permit application. The Coast Guard Bridge Permit Application Guide (BPAG) is available at <https://www.dco.uscg.mil>. A number of these missing topics were identified in a memo dated May 5, 2021, from Coast Guard Bridge Program Headquarters, in response to Sound Transit’s prior “Administrative Draft” of the DEIS. We recognize that certain topics identified in the memo or in the BPAG, may not be applicable to the WSBLE project, or that certain regulatory processes are planned, but have not yet been completed. As a suggestion, while Sound Transit has its EIS team in place, it may be efficient to address the items that will be needed for a Coast Guard Bridge Permit.
24. The EIS (section 4.2.9.3.1) states that “maintenance activities...could require removal of nests, eggs, or birds protected under the Migratory Bird Treaty Act.” And (section 4.2.9.6.1) that “If avoidance scheduling is infeasible, Sound Transit would work with staff at the United States Department of Agriculture...” The EIS should be edited to more clearly state that a permit for potential take may be required and that compliance with the Migratory Bird Treaty Act (including obtaining a permit) will be coordinated with the U.S. Fish and Wildlife Service. Related correspondence should then be included in the Final EIS.
25. Include a more clear statement noting whether or not a permit under the Bald and Golden Eagle Protection Act is required or anticipated, and any related correspondence.
26. As this project is anticipated to adversely impact Section 106 properties, include evidence of consultation with the State Historic Preservation Officer and/or Tribal Historic Preservation Officers, and the related date of the Memorandum of Agreement or Programmatic Agreement.
27. Include a statement noting compliance with the Native American Graves Protection and Repatriation Act, in the event the project uncovers human remains, sacred objects, or other similar objects associated with Indian tribes.
28. Chapter 6 Alternatives Evaluation. Section 6.1 summarizes six identified “needs” that the various alternatives are evaluated on, including advancing “multimodal” transit. Our view is that preservation of marine navigation along the MTS with access to marine facilities is a vital mode of transportation that should be added as a “need” to evaluate alternatives against.
29. Table 6.8 summarizes impacts expected during construction and operation of the various alternatives. As presented in this Table, it is clear that the tunnel alternatives compare very favorably with the bridge alternatives for crossing the LWSC. In comparison with bridge alternatives, the tunnel alternatives will have reduced or no impacts for the following concerns: construction-related impacts to transportation from temporary

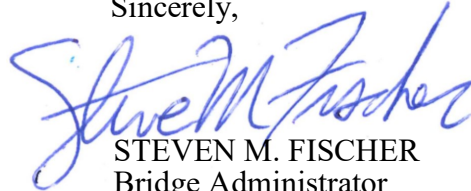
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29 April 2022

closures of roadways, noise, vibration and visual impacts, land conversion, and displacement of residents, businesses and employees, impacts to shorelines, in-water impacts, historic properties, and park and recreational resources.

30. Additionally, tunnel alternatives will not impact the U.S. Corps of Engineers maintained navigation channel, and will likely reduce or eliminate certain federal regulatory requirements including those required by the CWA, ESA, NHPA, and others and eliminate. In addition, as stated previously, a tunnel would not affect navigation and therefore, would eliminate the need for a Coast Guard bridge permit.
31. Overall throughout the document the environmental benefit of a tunnel needs to be better documented. For a few examples, a tunnel would eliminate 401, 404, 408, USCG Bridge Permits/approvals with all the associated environmental impacts; It would avoid shading over the water which would decrease predation of salmon and other negative impacts that shading has on the underwater ecosystem; decrease the noise impact; there would be no visual impact; a tunnel would preserve the tribal usual and accustomed fishing grounds in an already crowded marine environment. These are but a few examples.

Thank you for the opportunity to comment. If you have any questions or concerns please call me at (206) 220-7282 or email at steven.m.fischer3@uscg.mil.

Sincerely,



STEVEN M. FISCHER
Bridge Administrator
Coast Guard Thirteenth District

copy: Coast Guard Sector Puget Sound, Waterway Management
Coast Guard BRG-2
ACOE Seattle District

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 505007 – United States Coast Guard District 13 Draft EIS Comment

#	Comments	Responses
1	Include consultation/coordination and the status (e.g., pending, obtained, etc.) of the issuance of a Water Quality Certification under the Clean Water Act.	Chapter 1, Purpose and Need, of the West Seattle Link Extension Final EIS includes a project milestones chart that shows permitting following completion of the environmental review process and therefore a permit under the Clean Water Act has not yet been obtained. Coordination with the appropriate agencies will occur during permitting. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
2	Include consultation/coordination documentation with USAGE regarding wetland mitigation measures taken in accordance with Executive Order 11990.	See response to comment 1. Sound Transit has been coordinating with the U.S. Army Corps of Engineers regarding permitting needs and potential mitigation.
3	Include a statement clearly certifying that the project is consistent with Coastal Zone Management Programs and has or will receive Washington State concurrence.	The project would be in compliance with the Coastal Zone Management Act. Coordination on this would occur during the permitting phase.
4	Include the 100 year flood elevation in the vicinity of proposed bridges crossing waterways.	Please see Section 4.8, Water Resources, of the Final EIS for information on floodplains in the study area.
5	Include the date of the Biological Assessment or the document itself. Also include the timeline and correspondence related to consultation with U.S. Fish and Wildlife Service and National Marine Fisheries Service regarding the Endangered Species Act, Magnuson-Stevens Fish Conservation and Management Act, Fish and Wildlife Coordination Act.	The Record of Decision will document the Endangered Species Act consultation process and findings.
6	The EIS states that Sound Transit would monitor during construction to prevent marine mammal harassment; however, they should more clearly state if a take of marine mammals is anticipated. Correspondence related to the Marine Mammals Protection Act should also be included.	If an alternative with in-water work is selected as the project to be built, Sound Transit would apply for an Incidental Take Authorization. The preferred alternative would not require in-water work and therefore no take of marine mammals is expected.
7	Chapter 1 Purpose and Need. This section describes numerous benefits of the project to improve light rail transit systems that will support existing and future regional growth in population, employment and the economy. However, although Seattle is a maritime community and the project will cross two major Seattle waterways that are also vital to the regional economy and marine transportation (Duwamish Waterway and the Lake Washington Ship Canal), the Purpose and Need section is silent on the need to protect the resource of navigation on the marine transportation system (MTS). Certain bridge alternatives presented in the DEIS would permanently reduce navigational clearances or eliminate access to marine facilities on the two waterways. The provision of improved surface transit facilities with the WSBLE should not be at the expense of the loss or impairment of marine navigation on the MTS.	Please see Chapter 1, Purpose and Need, of the Final EIS for more information on the purpose and need for the project. This chapter states that the purpose of the project is to preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built, and social environment. Please see Section 3.9, Affected Environment and Impacts During Operation - Navigation, of the Final EIS. Please see response to CC4.1d and CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. A response to the comment about bridge types over the Lake Washington Ship Canal will be provided as part of the environmental review process for the Ballard Link Extension.

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8	<p>Section 2.1.2.1.2 briefly describes three alternatives for crossing the Duwamish Waterway (Alternatives DUW-1a and DUW-1b (both southern crossings) and DUW-2 (northern crossing). For each of these alternatives, the narrative states the vertical clearance of the alternative in feet over the West channel of the waterway, but does not include horizontal clearance information and is unclear about clearances over the East channel. However, Section 3.9 does include the vertical and horizontal clearances for each alternative in the narrative sections for each alternative. To aid comparisons, the navigational clearance information for each alternative for both East and West channels should be clearly shown in a table, as well as clearance data for existing bridges.</p>	<p>Detailed information on existing and proposed future clearances with the Duwamish Segment alternatives relevant to navigation are provided in Section 8, Navigation of Appendix N.1, Transportation Technical Report of the Final EIS.</p>
9	<p>Chapter 3 Transportation Environment and Consequences. Section 3.9 evaluates impacts to navigation for bridge alternatives that would cross the Duwamish West and East Channels. DUW-1a and 1b are located near the existing navigational obstructions of the Spokane Street Bridge, West Seattle Bridge and BNSF railroad bridge. Alternative DUW-1bis similar to DUW-1a, but is located further south (upstream) of Alternative DUW-1a, and may require in-water piers and have greater impact on navigation on the MTS near marine facilities, mainly recreational marinas and docks near the south end of Harbor Island. According to the DEIS, approximately 20% of such facilities would be permanently displaced, and replacing them is "unlikely". Alternative DUW-2, located approximately 150 feet north of the existing obstruction of the Spokane Street Bridge, would become the new, first vertical and horizontal obstruction on both East and West channels. Further, it would cross over federal navigation projects maintained by the Corps of Engineers in both channels. DUW-2 would have 100 feet of vertical clearance and 315 feet of horizontal clearance (reduced from an existing clearance of 400 feet). The new obstruction caused by the DUW-2 crossing, with its reduced navigational clearances could affect the ability of vessels to navigate in this portion of the federally maintained channel. Additionally, DUW-2 would displace the most marine-oriented businesses. Alternatives DUW-1a and 1b would not affect the Corps of Engineers maintained navigation channels and according to the DEIS, Alternative DUW-1a may be able to avoid in-water piers. The Coast Guard favors alternatives with the least impact to navigation and preservation of navigation access to marine facilities. From the information presented in the DEIS, Alternative-1a appears to have the least impact to navigation and access to marine facilities.</p>	<p>Your comment on alternative preference has been noted. Alternative DUW-1a is the Preferred Alternative in the Final EIS. With respect to the part of the comment that reads, "DUW-2 would have 100 feet of vertical clearance and 315 feet of horizontal clearance (reduced from an existing clearance of 400 feet)." This is a summary of Alternative DUW-2 over the East Waterway channel. Sound Transit's research indicated that these clearances would not affect existing or prospective vessels using the East Waterway federal navigation channel. Over the West Waterway, Alternative DUW-2 would meet the existing governing clearances of the West Seattle High-Rise Bridge.</p>
10	<p>In a letter dated 4 January 2022, the Coast Guard issued a "Preliminary Navigation Clearance Determination" letter (PNCD) for the West channel, specifying minimum navigational clearances of 140 feet vertical and 250 feet horizontal. Any crossing of the West channel must meet these minimum clearances.</p>	<p>Comment noted. Each of the alternatives evaluated in the Final EIS meets or exceeds the minimum navigational clearances outlined in the Preliminary Navigation Clearance Determination.</p>

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11	<p>Section 3-1 Summary, "Table 3-1 Key Findings," contains the following statement regarding navigation on the Duwamish Waterway: "Alternative DUW-2 would cross over a navigation channel in the East Waterway approximately 150 feet north of an existing barrier to navigation and would reduce the horizontal clearance and the area available for navigation and maneuvering." This statement should refer readers to where navigation clearance information is available. As previously stated, the actual proposed vertical and horizontal navigational clearances in feet for each bridge alternative should be provided in a table for the crossings of the Duwamish Waterway and the Lake Washington Ship Canal. Additionally, the clearances of existing bridges or other obstructions should be included in the same table for ease of comparison. We recognize that this information is available in the navigation impact reports. However, it should also be available in the main NEPA document for ease of access for interested parties and for use in evaluation of alternatives in relation to the affected environment.</p>	<p>See response to comment 8 above. The text cited is a summary key findings of the alternatives and therefore not the correct place to cite existing conditions or where they can be found. A response to this comment related to the Lake Washington Ship Canal for the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
12	<p>Table 3-1 contains the following statement regarding the Link crossings of the Lake Washington Ship Canal (LWSC): "All bridge alternatives for the Ballard Link Extension would meet or exceed the governing limitations on the Ship Canal navigation channel." This statement is not correct for the bridge alternatives presented in the DEIS, as two of the three alternatives for crossing the LWSC are proposed to have a maximum fixed vertical clearance of 136'. These bridge alternatives are clustered near the existing Ballard Bridge, at approximate waterway mile 1.1. As a drawbridge, the Ballard Bridge has unlimited vertical clearance when in the open position. A fixed bridge at this location and with a vertical clearance of 136' would become the new, first navigational obstruction on the LWSC and would block access of many vessels to upstream areas and marine services along the LWSC. Table 3-1 should be corrected to describe these conditions and all bridge alternatives for crossing the LWSC should indicate navigational clearances that meet or exceed those stated in the Coast Guard PNCD letter of February 8, 2022.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
13	<p>Additionally, this entire section and Table 3-1 are silent on tunnel alternatives for crossing the LWSC. This Table should be revised to include a discussion of "key findings" of tunnel alternatives.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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14	<p>Section 3.17 addresses impacts to navigation of the various alternatives for crossing the LWSC. Briefly, Alternatives IBB-1a and 1b would have proposed vertical clearances of 136 feet and become the new, first navigational obstruction on the LWSC. Alternative IBB-3 would be a drawbridge (either a vertical lift or bascule type) with 70-80 feet of vertical clearance when in the closed position and un-stated vertical clearance in the open position. There are also two tunnel alternatives that would have no impact to navigation (Alternatives IBB-2a and 2b). On 8 February 2022, the Coast Guard issued its Preliminary Navigation Clearance Determination letter (PNCD), stating minimum navigational clearances of 205 feet vertical and 290 feet horizontal for the LWSC. Any chosen bridge alternatives will need to meet these minimum clearances.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
15	<p>Section 3.17.3 states the tunnel alternatives would not have impacts to navigation and therefore are not discussed further. This does not adequately inform the reader of the positive aspects of the tunnel alternatives. Stated another way, the impacts avoided or reduced should be identified and the reader referred to the alternatives evaluation in Chapter 6, which is more informative on this subject. On page 3-3 of Chapter 3, in the Navigation discussion box, add a bullet noting that the horizontal and vertical clearances of bridges will be coordinated through the U.S. Coast Guard through the bridge permitting process under the General Bridge Act of 1946, not through the NEPA process.</p>	<p>Please see Section 3.9 of the Final EIS for information on bridge permitting. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
16	<p>On page 3-3 of Chapter 3, in the Navigation discussion box, add a bullet noting that the horizontal and vertical clearances of bridges will be coordinated through the U.S. Coast Guard through the bridge permitting process under the General Bridge Act of 1946, not through the NEPA process.</p>	<p>Please see Section 3.9, Affected Environment and Impacts During Operation - Navigation, of the Final EIS for more information on coordination of the U.S. Coast Guard. Coordination with the U.S. Coast Guard continued during preparation of the Final EIS. Coordination with the U.S. Coast Guard is not a key finding of the analysis, and therefore has not been added to the table of Key Findings referenced in this comment. Details of the coordination (that it would occur outside of the NEPA process) have been added to Section 8, Navigation of Appendix N.1, Transportation Technical Report of the Final EIS.</p>
17	<p>On page 3-43 of Chapter 3, delete "In the East Waterway, vessels are unable to pass the Spokane Street (fixed) Bridge, as it is a considered an obstruction to navigation (National Oceanic and Atmospheric Administration 2019), with a vertical clearance of 5 feet." Replace with "In the East Waterway in the vicinity of the fixed Spokane Street Bridge, obstructions limit navigation under the bridges." Navigation isn't completely blocked to all vessels (e.g. non-motorized watercraft), only the majority. If the waterway was completely blocked, the blocking structure(s) would be called a causeway, not a bridge.</p>	<p>Text in has been edited in Section 3.9, Affected Environment and Impacts During Operation - Navigation and Section 8, Navigation of Appendix N.1, Transportation Technical Report of the Final EIS in response to the comment. A reference to the 5-foot vertical clearance remains to aid the reader in understanding how low the vertical clearance is in this area.</p>

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18	On pages 3-47 (line 1 and line 21) of Chapter 3, delete the instances noting the Spokane Street Bridge", which is considered a barrier to navigation." End the sentences after Spokane Street. Vessels are limited by the governing vertical clearance, but not all are barred from navigating in the vicinity.	Text in has been edited in Section 3.9, Affected Environment and Impacts During Operation - Navigation and Section 8, Navigation of Appendix N.1, Transportation Technical Report of the Final EIS in response to the comment.
19	On pages 3-47 and 3-113 of Chapter 3, add a sentence to the end of each Mitigation for Operation Impacts sections stating that "Proposed aids to navigation would be approved by the U.S. Coast Guard prior to installation." On page 3-57 (line 13) and 3-138 (line 18) of Chapter 3, sections 3.11.3.6.1 and 3.19.6.6.1, add a statement to the end of the first paragraph that "All waterway closures would be coordinated through and approved by the U.S. Coast Guard."	Text has been edited as requested in Section 3.9, Affected Environment and Impacts During Operation - Navigation and Section 8, Navigation of Appendix N.1, Transportation Technical Report of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
20	Chapter 4 -Affected Environment and Environmental Consequences This chapter addresses certain topics of the "affected environment" and is silent on other topics that will be required for a complete Coast Guard bridge permit application. The Coast Guard Bridge Permit Application Guide (BPAG) is available at https://www.dco.uscg.mil . A number of these missing topics were identified in a memo dated May 5, 2021, from Coast Guard Bridge Program Headquarters, in response to Sound Transit's prior "Administrative Draft" of the DEIS. We recognize that certain topics identified in the memo or in the BPAG, may not be applicable to the WSBLE project, or that certain regulatory processes are planned, but have not yet been completed. As a suggestion, while Sound Transit has its EIS team in place, it may be efficient to address the items that will be needed for a Coast Guard Bridge Permit.	Per further coordination with US Coast Guard, no additional topics need to be addressed. Sound Transit will provide any additional information needed through the permitting process, as appropriate.
21	The EIS (section 4.2.9.3.1) states that "maintenance activities... could require removal of nests, eggs, or birds protected under the Migratory Bird Treaty Act." And (section 4.2.9.6.1) that "If avoidance scheduling is infeasible, Sound Transit would work with staff at the United States Department of Agriculture..." The EIS should be edited to more clearly state that a permit for potential take may be required and that compliance with the Migratory Bird Treaty Act (including obtaining a permit) will be coordinated with the U.S. Fish and Wildlife Service. Related correspondence should then be included in the Final EIS. Include a more clear statement noting whether or not a permit under the Bald and Golden Eagle Protection Act is required or anticipated, and any related correspondence.	Please see Section 4.9, Ecosystems, of the Final EIS for information on compliance with the Migratory Bird Treaty Act. Also see Fact Sheet at the front of the Final EIS for a list of anticipated permits and approvals. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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22	As this project is anticipated to adversely impact Section 106 properties, include evidence of consultation with the State Historic Preservation Officer and/or Tribal Historic Preservation Officers, and the related date of the Memorandum of Agreement or Programmatic Agreement.	lease see Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS for information on consultation undertaken in accordance with Section 106 of the National Historic Preservation Act and correspondence between FTA and Tribes. The appendix also describes development of a Section 106 agreement to mitigate adverse effects to National Register-eligible or - listed resources. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
23	Include a statement noting compliance with the Native American Graves Protection and Repatriation Act, in the event the project uncovers human remains, sacred objects, or other similar objects associated with Indian tribes.	Please see Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS for reference to the laws applicable to the project, including those protecting Native American burial sites and other archaeological sites. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
24	Chapter 6 Alternatives Evaluation. Section 6.1 summarizes six identified "needs" that the various alternatives are evaluated on, including advancing "multimodal" transit. Our view is that preservation of marine navigation along the MTS with access to marine facilities is a vital mode of transportation that should be added as a "need" to evaluate alternatives against	See response to comment 7 above.
25	Table 6.8 summarizes impacts expected during construction and operation of the various alternatives. As presented in this Table, it is clear that the tunnel alternatives compare very favorably with the bridge alternatives for crossing the LWSC. In comparison with bridge alternatives, the tunnel alternatives will have reduced or no impacts for the following concerns: construction-related impacts to transportation from temporary closures of roadways, noise, vibration and visual impacts, land conversion, and displacement of residents, businesses and employees, impacts to shorelines, in-water impacts, historic properties, and park and recreational resources. Additionally, tunnel alternatives will not impact the U.S. Corps of Engineers maintained navigation channel, and will likely reduce or eliminate certain federal regulatory requirements including those required by the CWA, ESA, NHPA, and others and eliminate. In addition, as stated previously, a tunnel would not affect navigation and therefore, would eliminate the need for a Coast Guard bridge permit.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
26	<p>Overall throughout the document the environmental benefit of a tunnel needs to be better documented. For a few examples, a tunnel would eliminate 401, 404, 408, USCG Bridge Permits/approvals with all the associated environmental impacts; It would avoid shading over the water which would decrease predation of salmon and other negative impacts that shading has on the underwater ecosystem; decrease the noise impact; there would be no visual impact; a tunnel would preserve the tribal usual and accustomed fishing grounds in an already crowded marine environment. These are but a few examples.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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United States Department of the Interior

OFFICE OF THE SECRETARY
Office of Environmental Policy and Compliance
620 SW Main Street, Suite 201
Portland, OR 97205

In Reply Refer To:
ER22/0044
4111

Electronically Filed

April 27, 2022

Mr. Mark Assam, Environmental Protection Specialist
Federal Transit Administration, Region 10
915 2nd Avenue, Suite 3192
Seattle, WA 98174-1002

WSBLE Draft Environmental Impact Statement Comments
c/o Lauren Swift, Sound Transit
401 S. Jackson St.
Seattle, WA 98104

Dear Mr. Assam & Ms. Swift:

This letter is in response to your recent request for the Department of the Interior's (Department) comments on the Section 4(f) evaluation for the "West Seattle and Ballard Link Extensions" (WSBLE) in King County, Washington. The Department, through the National Park Service (NPS), has reviewed a draft Section 4(f) evaluation report for this transportation project.

In 2019, the NPS previously commented on the project's relative proximity to Elliot Bay Park (Land and Water Conservation Fund) and Camp Long (Urban Park and Recreation Recovery). Route configurations described in the draft Environmental Impact Statement and Section 4(f) evaluation do not affect these parks.

In a report dated January 2022, the Central Puget Sound Regional Transit Authority (Sound Transit) evaluated Section 4(f) properties affected by WSBLE in King County. The NPS has no further comments, and no Departmental bureaus have identified any concerns with the 4(f) evaluation. The Department has no objection to and concurs with Section 4(f) approval of this project.

Sincerely,

Allison O'Brien
Regional Environmental Officer

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 502952 - United States Department of the Interior Draft EIS Comment

#	Comments	Responses
1	<p>The Department, through the National Park Service (NPS), has reviewed a draft Section 4(f) evaluation report for this transportation project. In 2019, the NPS previously commented on the project's relative proximity to Elliot Bay Park (Land and Water Conservation Fund) and Camp Long (Urban Park and Recreation Recovery). Route configurations described in the draft Environmental Impact Statement and Section 4(f) evaluation do not affect these parks. In a report dated January 2022, the Central Puget Sound Regional Transit Authority (Sound Transit) evaluated Section 4(f) properties affected by WSBLE in King County. The NPS has no further comments, and no Departmental bureaus have identified any concerns with the 4(f) evaluation. The Department has no objection to and concurs with Section 4(f) approval of this project.</p>	<p>Thank you for your feedback on the WSBLE Draft EIS and Section 4(f) Evaluation. As noted, the West Seattle Link Extension alternatives would not affect resources from these funds. A response to this comment related to Elliott Bay Park will be provided as part of the environmental review process for the Ballard Link Extension.</p>



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10**

1200 Sixth Avenue, Suite 155, 14-D12
Seattle, WA 98101-3144

REGIONAL
ADMINISTRATOR'S
DIVISION

April 28, 2022

Mark Assam
Federal Transit Administration, Region 10
915 Second Avenue, Suite 3142
Seattle, Washington 98174

Dear Mark Assam:

The U.S. Environmental Protection Agency has reviewed Federal Transit Administration and Sound Transit's January 2022 Draft Environmental Impact Statement for the West Seattle and Ballard Link Extensions (CEQ Number 20220008, EPA Project Number 19-0002-FTA). EPA has conducted its review pursuant to the National Environmental Policy Act and our review authority under Section 309 of the Clean Air Act. The CAA Section 309 role is unique to EPA and requires EPA to review and comment publicly on any proposed federal action subject to NEPA's environmental impact statement requirement.

The DEIS evaluates the potential environmental impacts of the proposed regional light rail system expansion within the City of Seattle from West Seattle, through Downtown, and into the Ballard neighborhood. The roughly 12-mile-long project corridor includes an almost 5-mile West Seattle Link Extension and over 7-mile Ballard Link Extension. The DEIS evaluates both extensions and clarifies that each is a standalone project with independent utility.¹ The DEIS evaluates a No Build Alternative and multiple Build Alternatives in the project corridor. In 2019, the Sound Transit Board identified Preferred Alternatives, including Preferred Alternatives with Third-Party Funding, for both extensions except for the Chinatown/International District segment. EPA notes that the Sound Transit Preferred Alternatives included in the DEIS have not been identified as the NEPA Preferred Alternatives by the lead federal agency, FTA, for this project.

EPA is supportive of the project's goals to expand mobility in the region to include transit dependent people, low-income populations, and communities of color. EPA also supports the goals to provide regional transit in a manner that preserves and promotes a healthy environment and economy by minimizing adverse impacts on the environment through sustainable practices. Regional public transit has an important role in reducing vehicle miles traveled and vehicle emissions in an area with heavy traffic congestion.

EPA appreciates that the DEIS addresses the comments we provided during the scoping phase of the project regarding: aquatic resources; use of existing transportation corridors and rights-of-way; applying context sensitive design; and cumulative and indirect impacts. While impacts are likely to remain due to construction, overall, it's anticipated that the project will reduce adverse environmental impacts (e.g., greenhouse gas emissions), when compared to the No Build alternative.

¹ DEIS, ES-1.

To further reduce impacts to communities and the environment, EPA provides recommendations related to Superfund sites within the Duwamish segment of the Proposed Action, government-to-government consultation and coordination with Tribes, environmental justice, the West Duwamish Greenbelt great blue heron rookery, and preferred alternatives with third-party funding. Additional analysis may be required to better assess and quantify impacts and design mitigation measures to minimize impacts. The enclosed Detailed Comments provide greater detail of these and other concerns, as well as recommendations for the Final EIS.

Thank you for the opportunity to review the DEIS for this project. If you have questions about this review, please contact Susan Sturges of my staff at 206-553-2117 and sturges.susan@epa.gov, or me, at (206) 553-1774 or at chu.rebecca@epa.gov.

Sincerely,

Rebecca Chu, Chief
Policy and Environmental Review Branch

CC: Lauren Swift, Sound Transit

Enclosure

U.S. EPA Detailed Comments on the West Seattle and Ballard Link Extensions DEIS Seattle, Washington April 2022

Superfund Sites in the Duwamish Segment of the Proposed Action

EPA recommends close coordination between EPA, FTA, and Sound Transit to ensure that the selected bridge design, construction methods, and best management practices are compatible with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) decisions and remedy implementation for the East Waterway Operable Unit of the Harbor Island Superfund Site.

The proposed Duwamish segment of the West Seattle Link Extension is in the vicinity of the East Waterway, Harbor Island, and Lower Duwamish Superfund sites. Based on information in the DEIS, it is not anticipated that the in-water placement of bridge supports described in the Duwamish Segment alternatives will unduly hinder or prevent remedial alternatives currently being considered by EPA for the southern end of the East Waterway. However, until more bridge design detail is available for this project, EPA supports bridge design features that minimize or eliminate the in-water placement of bridge supports. When FTA and Sound Transit have more information after the DEIS public comment period, please contact Ravi Sanga (sanga.ravi@epa.gov, 206-553-4092), the Remedial Project Manager for East Waterway and Harbor Island, and Elly Hale (hale.elly@epa.gov, 206-553-1215), the Remedial Project Manager for Lower Duwamish, to meet with EPA and ensure minimal effect to the Superfund sites occurs.

Government-to-Government Consultation and Coordination with Tribes

EPA encourages FTA to incorporate feedback from Tribes when making decisions regarding the project and recommends the FEIS describe the issues raised during government-to-government consultations and how those issues were addressed.

On February 2, 2018, FTA initiated government-to-government consultation with the Confederated Tribes and Bands of the Yakama Nation, Muckleshoot Indian Tribe, Snoqualmie Indian Tribe, Stillaguamish Tribe of Indians of Washington, Suquamish Tribe of the Port Madison Reservation, and Tulalip Tribes of Washington.² Sound Transit also invited the participation of the non-federally recognized Duwamish Tribe and Snohomish Tribe in the scoping process and to attend public scoping meetings.³

In addition to impacts to Tribal treaty-protected fishing rights, access to Usual and Accustomed Areas, and potential cultural resources included in the DEIS, EPA encourages FTA to consult with the Tribes regarding the temporary loss of services related to the displacement of the Indian Child Welfare Office, a part of the Washington State of Children, Youth, and Families office building, in the proposed Delridge Segment. As further discussed in our Western Alaska cargo transport comments: EPA recommends FTA consult with the Federally Recognized Tribes in the Aleutian/Pribilof Islands Region to discuss the project's impacts to the transport of goods and services provided by Coastal Transportation, Inc. to coastal Alaskan communities. EPA recommends FTA incorporate recommendations provided by these Federally Recognized Tribes to minimize the impacts that would be

² DEIS, p. ES-44 and personal communication, March 30, 2022.

³ DEIS, Appendix G, p. 4-2.

suffered by coastal Alaska communities if Coastal Transportation were unable to operate for any duration.

Environmental Justice

EJScreen and Other Data Sets to Identify Potential Environmental Justice Concerns

EPA recommends the FEIS supplement the project's environmental justice analysis using the Environmental Justice Screening and Mapping Tool (EJScreen).⁴ EPA considers a project to be in an area of potential environmental justice concern when an EJScreen analysis for the impacted area shows one or more of the twelve Environmental Justice Indices at or above the 80th percentile for the nation and/or state.

Here are additional data sets that may be helpful to identify potential environmental justice concerns:

- Washington Environmental Health Disparities Map.⁵ This interactive mapping tool allows for the comparison of environmental health risk and disparities between census tracts in the state.
- Lower Duwamish Waterway Superfund Site Community Involvement Plan (CIP).⁶ This 2016 document includes an environmental justice analysis of the Lower Duwamish Waterway (Appendix E), which identifies environmental justice concerns and outlines specific cultural and linguistic considerations for working with communities in the area.
- Appendix B: Environmental Justice Analysis for the Lower Duwamish Waterway Superfund Cleanup.⁷

Recreational and Subsistence Fishing at Spokane Street Bridge

EPA recommends the FEIS clarify whether construction or operation of the proposed alignments in the Duwamish segment of the West Seattle Link Extension will impact recreational and subsistence fishers that utilize the Spokane Street Bridge or other popular areas in proximity to the proposed project. The environmental justice analysis recognizes that the study area includes people who rely on fish in the Duwamish Waterway and Salmon Bay for subsistence.⁸ However, it appears that, with the exception of noted Tribal-treaty protected fishing rights and Usual and Accustomed Areas, the analysis does not include information on how the project will impact this group of subsistence fishers or mitigate those potential impacts. EPA recommends the FEIS address construction and operation impacts on these communities, if special outreach is necessary to communicate the project details and potential impacts, given that many are likely to have limited English proficiency,⁹ and mitigation measures to address any impacts to the fishing practices of these communities (e.g., temporary fishing site access restrictions, prohibitions to fish consumption, etc.).

Because low-income and minority populations reside in and utilize the resources of the project area, it is important to be aware of existing adverse impacts to this community and any project project-related activities that could potentially exacerbate these impacts. There are several resources that may be helpful in evaluating potential adverse impacts to the Duwamish fishing community in proximity to the Duwamish segment of the West Seattle Link Extension:

⁴ <https://www.epa.gov/ejscreen>.

⁵ <https://fortress.wa.gov/doh/wtnibl/WTNIBL/>.

⁶ <https://semspub.epa.gov/work/10/100134114.pdf>.

⁷ https://d10k7k7mywg42z.cloudfront.net/assets/512fbf027a507244640002ea/ej_analysis_ldw_feb_2013.pdf.

⁸ DEIS, Appendix G, p. 3-6 and p. 3-18.

⁹ Windward Environmental LLC, 2016, <https://semspub.epa.gov/work/10/100036528.pdf>.

- EPA and Washington State Department of Ecology Lower Duwamish Waterway Fishers Study Data Report¹⁰ provides extensive information about diverse fishers that fish the Spokane Street Bridge and other popular fishing areas.
- Public Health – Seattle and King County oversees a “Fun to Catch, Toxic to Eat” Program¹¹ and may provide additional information about the fishing community within the project area.
- EPA’s Institutional Control Implementation and Assurance Plan for Seafood Consumption at the Lower Duwamish Waterway Superfund Site¹² has information regarding culturally appropriate, health actions to protect the health and well-being of fishing communities, especially pregnant women, nursing moms, and young children.

Displacements

The DEIS specifies that relocation assistance for residences and businesses will be provided in accordance with Sound Transit’s adopted real estate property acquisition and relocation policy, procedures, and guidelines. The DEIS also states that Sound Transit relocation agents will consider special needs and requirements when identifying replacement housing for displaced people; however, mitigation measures specific to environmental justice communities and minority-owned businesses are not identified in the DEIS.¹³

EPA recommends the FEIS include specific information and measures related to compensation and relocation assistance for low-income and minority residences and minority-owned businesses that could be acquired, displaced, and relocated by the project. EPA further recommends the FEIS include additional information and measures to address the temporary or long-term loss of services to low-income and minority communities provided by community organizations that will either be relocated by the project or affected during construction of the project. It will also be important for FTA to discuss in the FEIS plans to resolve conflicts that could arise from businesses and residents that might refuse easement offers.

Cargo Transport to Western Alaska Rural Communities and Alaska Native Villages

The DEIS indicates that the Interbay/Ballard segment of the proposed Ballard Link Extension may impact Coastal Transportation, Inc., a maritime cargo transportation company that operates five vessels year-round transporting critical goods and services from Seattle to ports in Western Alaska and the Aleutian Islands.¹⁴ Coastal Transportation has a critical role in maintaining waterway transportation and frequent freight services to and from southwest Alaska and fills an important role for the state of Alaska as laid out in the Aleutian Trade Act of 1990.¹⁵ According to Coastal Transportation, they are the only Aleutian Trade Act company that provides year-round service to these communities and impacts to this business could affect rural and Alaska Native village communities in this part of Alaska.¹⁶ EPA considers impacts resulting in delays to critical “lifeline” services (equipment, supplies, food) throughout coastal Western Alaska communities will adversely affect Alaska Native village communities in this part of Alaska.

¹⁰ Windward Environmental LLC, 2016.

¹¹ <https://kingcounty.gov/depts/health/environmental-health/healthy-communities/duwamish-fishing/about-us.aspx>.

¹² Lee S., Tippens K., and Ho K., 2019, https://kingcounty.gov/depts/health/environmental-health/healthy-communities/duwamish-fishing/~/_media/depts/health/environmental-health/documents/safe-fishing/Duwamish-ICIAP-report.ashx.

¹³ DEIS, Appendix G, Tables 5-2 and 5-4.

¹⁴ DEIS, p. 4.3.3-10.

¹⁵ DEIS, p. 4.3.3-9.

¹⁶ DEIS, p. 4.3.3-10.

The DEIS indicates that if displacement cannot be avoided, a new location would need to maintain access to ports and the existing rail network, which may be difficult to find. The relocation process could impact shipping schedules in the near- and long-term, which could affect the delivery of critical goods and services to rural and Alaska Native village communities in Alaska.¹⁷ EPA recommends that FTA plan to avoid, minimize, and mitigate anticipated impacts from the displacement and relocation of the business and near- and long-term effects to the transport of goods and services to rural and Alaska Native village communities in Alaska. As previously stated, EPA recommends FTA hold government-to-government consultations with Federally Recognized Tribes in the Aleutian/Pribilof Islands Region to discuss the nature of the impacts to the transport of goods and services to rural communities and Alaska Native villages in Western Alaska and the Aleutian Islands if the project disrupts their ability to receive year-round critical goods and services in these remote areas.

To avoid impacts to rural communities and Alaska Native villages in Western Alaska and the Aleutian Islands resulting from disruptions to their ability to receive year-round critical goods and services, EPA recommends FTA consider whether Preferred Tunnel 14th Avenue (IBB-2a*) Alternative is a viable option for the Interbay/Ballard segment. Its estimated project costs (\$1.5 billion) are similar to the two alternatives that would impact Coastal Transportation, Alternative IBB-1a (Preferred Elevated 14th Avenue) at \$1.5 to 1.6 billion and Alternative Option IBB-1b (Elevated 14th Avenue Alignment Option) at \$1.6 billion.¹⁸ Preferred Tunnel 14th Avenue would also avoid maritime business displacements, including Coastal Transportation, will result in fewer residential displacements, avoid the permanent in-water effects of the elevated alternatives, and avoid the navigation channel impacts of a new bridge over Salmon Bay.

West Duwamish Greenbelt Great Blue Heron Rookery

EPA recommends that the FEIS include the great blue heron habitat management plan for work within the great blue heron management zone, including the known great blue heron rookery located in the West Duwamish Greenbelt that may be affected by the project.

As indicated in the DEIS, since this species is protected by the state, the City of Seattle requires a management plan that normally includes a year-round, 197-foot-radius buffer around nesting colonies, with an additional 300-foot buffer during the nesting season (February 1 through August 31). The plan may include a variety of measures such as retaining trees to screen the colony, work sequencing in the buffers, preventing specific loud activities during the nesting season, monitoring during nesting season, or other measures as developed in coordination with Washington Department of Fish and Wildlife, the City of Seattle, and United States Fish and Wildlife Service.¹⁹

Preferred Alternatives with Third-Party Funding

EPA recommends the FEIS clarify the status and potential of “third-party” funds for Preferred Alternatives with Third-Party Funding (e.g., whether funds have been or are currently being sought). This additional information will provide transparency on the likelihood of these “preferred” alternatives coming to fruition.

The DEIS indicates the additional funding for these alternatives would need to come from contributions from partner agencies outside of Sound Transit, such as the City of Seattle, the FTA, or others. According to the DEIS, when the Sound Transit Board identified alternatives for study, early cost

¹⁷ DEIS, P. 4.3.3-11.

¹⁸ DEIS, p. 2-95.

¹⁹ DEIS, p. 4.2.9-17.

estimates indicated that some alternatives could require additional funding beyond what was assumed in the Sound Transit 3 financing plan, and include enhancements such as tunnels in West Seattle, alternatives in the Chinatown/International District that require replacement of the 4th Avenue South Viaduct, and tunnelling below Salmon Bay.²⁰ Because the effects to communities and aquatic resources greatly differ between Preferred Alternatives and Preferred Alternatives with Third-Party Funding, it would help inform the public on how likely, or not, the Preferred Alternatives with Third-Party funding are to move forward and be selected by FTA for implementation in the Record of Decision.

²⁰ DEIS, p. ES-5.

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504385 – United States Environmental Protection Agency Draft EIS Comment

#	Comments	Responses
1	<p>Superfund Sites in the Duwamish Segment of the Proposed Action EPA recommends close coordination between EPA, FTA, and Sound Transit to ensure that the selected bridge design, construction methods, and best management practices are compatible with Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) decisions and remedy implementation for the East Waterway Operable Unit of the Harbor Island Superfund Site. The proposed Duwamish segment of the West Seattle Link Extension is in the vicinity of the East Waterway, Harbor Island, and Lower Duwamish Superfund sites. Based on information in the DEIS, it is not anticipated that the in-water placement of bridge supports described in the Duwamish Segment alternatives will unduly hinder or prevent remedial alternatives currently being considered by EPA for the southern end of the East Waterway. However, until more bridge design detail is available for this project, EPA supports bridge design features that minimize or eliminate the in- water placement of bridge supports. When FTA and Sound Transit have more information after the DEIS public comment period, please contact Ravi Sanga (sanga.ravi@epa.gov, 206-553-4092), the Remedial Project Manager for East Waterway and Harbor Island, and Elly Hale (hale.elly@epa.gov, 206-553-1215), the Remedial Project Manager for Lower Duwamish, to meet with EPA and ensure minimal effect to the Superfund sites occurs.</p>	<p>The Preferred Alternative in the Duwamish Segment (DUW-1a) has been revised to avoid in-water guideway columns. Please see Sections 2.1, Build Alternatives, and 4.12, Hazardous Materials of the West Seattle Link Extension Final EIS for more information on the revised preferred alternative in the Duwamish Segment and a discussion of impacts related to the Harbor Island Superfund Site. Sound Transit intends to coordinate with the EPA and Ecology regarding the Harbor Island Superfund Site as design advances.</p>
2	<p>Government-to-Government Consultation and Coordination with Tribes EPA encourages FTA to incorporate feedback from Tribes when making decisions regarding the project and recommends the FEIS describe the issues raised during government-to-government consultations and how those issues were addressed. On February 2, 2018, FTA initiated government-to-government consultation with the Confederated Tribes and Bands of the Yakama Nation, Muckleshoot Indian Tribe, Snoqualmie Indian Tribe, Stillaguamish Tribe of Indians of Washington, Suquamish Tribe of the Port Madison Reservation, and Tulalip Tribes of Washington.2 Sound Transit also invited the participation of the non-federally recognized Duwamish Tribe and Snohomish Tribe in the scoping process and to attend public scoping meetings.3 In addition to impacts to Tribal treaty-protected fishing rights, access to Usual and Accustomed Areas, and potential cultural resources included in the DEIS, EPA encourages FTA to consult with the Tribes regarding the temporary loss of services related to the displacement of the Indian Child Welfare Office, a part of the Washington State of Children, Youth, and Families office building, in the proposed Delridge Segment. As further discussed in our Western Alaska cargo transport comments: EPA recommends FTA consult with the Federally Recognized Tribes in the Aleutian/Pribilof Islands Region to discuss the project's impacts to the transport of goods and services provided by Coastal Transportation, Inc. to coastal Alaskan communities. EPA recommends FTA incorporate recommendations provided by these Federally Recognized Tribes to minimize the impacts that would be suffered by coastal Alaska communities if Coastal Transportation were unable to operate for any duration.</p>	<p>Preferred Option DEL-6b would not displace the Indian Child Welfare Office. If another alternative is selected by the Board as the project to be built that displaces the Indian Child Welfare office, Sound Transit would notify Tribes and coordinate with the Washington State Department of Children, Youth, and Families, which manage the Indian Child Welfare offices regarding relocation of this office. The potential displacement of this facility is discussed in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, and Appendix G, Environmental Justice. A response to this comment related to the impact of the Ballard Link Extension on Coastal Transportation, who provides freight services to the state of Alaska, will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
3	<p>Environmental Justice EJScreen and Other Data Sets to Identify Potential Environmental Justice Concerns EPA recommends the FEIS supplement the project’s environmental justice analysis using the Environmental Justice Screening and Mapping Tool (EJScreen).⁴ EPA considers a project to be in an area of potential environmental justice concern when an EJScreen analysis for the impacted area shows one or more of the twelve Environmental Justice Indices at or above the 80th percentile for the nation and/or state. Here are additional data sets that may be helpful to identify potential environmental justice concerns:</p> <ul style="list-style-type: none"> • Washington Environmental Health Disparities Map.⁵ This interactive mapping tool allows for the comparison of environmental health risk and disparities between census tracts in the state. • Lower Duwamish Waterway Superfund Site Community Involvement Plan (CIP).⁶ This 2016 document includes an environmental justice analysis of the Lower Duwamish Waterway (Appendix E), which identifies environmental justice concerns and outlines specific cultural and linguistic considerations for working with communities in the area. • Appendix B: Environmental Justice Analysis for the Lower Duwamish Waterway Superfund Cleanup.⁷ 	<p>These datasets were reviewed in preparation of the Environmental Justice analysis for the WSBLE Draft EIS and the Final EIS. Due to the close proximity of project alternatives, this data did not provide additional differentiation between alternatives for the West Seattle Link Extension. Information from EJ Screen and the Washington Environmental Health Disparities Map has been added to Section 3 of Appendix G, Environmental Justice, to provide additional context for the study area. Additional information has been added to Section 4.4, Social Resources, Neighborhoods and Community Facilities, and Appendix G, Environmental Justice, regarding subsistence fishing in the Duwamish Waterway in the project area. Information related to the Lower Duwamish Waterway Superfund Cleanup was generally regarding populations outside of the West Seattle Link Extension study area. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>Recreational and Subsistence Fishing at Spokane Street Bridge EPA recommends the FEIS clarify whether construction or operation of the proposed alignments in the Duwamish segment of the West Seattle Link Extension will impact recreational and subsistence fishers that utilize the Spokane Street Bridge or other popular areas in proximity to the proposed project. The environmental justice analysis recognizes that the study area includes people who rely on fish in the Duwamish Waterway and Salmon Bay for subsistence. However, it appears that, with the exception of noted Tribal-treaty protected fishing rights and Usual and Accustomed Areas, the analysis does not include information on how the project will impact this group of subsistence fishers or mitigate those potential impacts. EPA recommends the FEIS address construction and operation impacts on these communities, if special outreach is necessary to communicate the project details and potential impacts, given that many are likely to have limited English proficiency, and mitigation measures to address any impacts to the fishing practices of these communities (e.g., temporary fishing site access restrictions, prohibitions to fish consumption, etc.). Because low- income and minority populations reside in and utilize the resources of the project area, it is important to be aware of existing adverse impacts to this community and any project project-related activities that could potentially exacerbate these impacts. There are several resources that may be helpful in evaluating potential adverse impacts to the Duwamish fishing community in proximity to the Duwamish segment of the West Seattle Link Extension: • EPA and Washington State Department of Ecology Lower Duwamish Waterway Fishers Study Data Report¹⁰ provides extensive information about diverse fishers that fish the Spokane Street Bridge and other popular fishing areas. • Public Health – Seattle and King County oversees a “Fun to Catch, Toxic to Eat” Program¹¹ and may provide additional information about the fishing community within the project area. • EPA’s Institutional Control Implementation and Assurance Plan for Seafood Consumption at the Lower Duwamish Waterway Superfund Site¹² has information regarding culturally appropriate, health actions to protect the health and well-being of fishing communities, especially pregnant women, nursing moms, and young children.</p>	<p>The Spokane Street Bridge was added as social resource in the Final EIS. It is discussed in Section 4.4 and Appendix G. A response to this comment regarding Salmon Bay will be provided as part of the environmental review process for the Ballard Link Extension.</p>
5	<p>Displacements The DEIS specifies that relocation assistance for residences and businesses will be provided in accordance with Sound Transit’s adopted real estate property acquisition and relocation policy, procedures, and guidelines. The DEIS also states that Sound Transit relocation agents will consider special needs and requirements when identifying replacement housing for displaced people; however, mitigation measures specific to environmental justice communities and minority- owned businesses are not identified in the DEIS.¹³ EPA recommends the FEIS include specific information and measures related to compensation and relocation assistance for low-income and minority residences and minority-owned businesses that could be acquired, displaced, and relocated by the project. EPA further recommends the FEIS include additional information and measures to address the temporary or long-term loss of services to low-income and minority communities provided by community organizations that will either be relocated by the project or affected during construction of the project. It will also be important for FTA to discuss in the FEIS plans to resolve conflicts that could arise from businesses and residents that might refuse easement offers.</p>	<p>Please see Section 4.1, Acquisitions, Displacements, and Relocations for information on relocation benefits. A response to this comment regarding the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
6	<p>Cargo Transport to Western Alaska Rural Communities and Alaska Native Villages The DEIS indicates that the Interbay/Ballard segment of the proposed Ballard Link Extension may impact Coastal Transportation, Inc., a maritime cargo transportation company that operates five vessels year-round transporting critical goods and services from Seattle to ports in Western Alaska and the Aleutian Islands.14 Coastal Transportation has a critical role in maintaining waterway transportation and frequent freight services to and from southwest Alaska and fills an important role for the state of Alaska as laid out in the Aleutian Trade Act of 1990.15 According to Coastal Transportation, they are the only Aleutian Trade Act company that provides year-round service to these communities and impacts to this business could affect rural and Alaska Native village communities in this part of Alaska.16 EPA considers impacts resulting in delays to critical “lifeline” services (equipment, supplies, food) throughout coastal Western Alaska communities will adversely affect Alaska Native village communities in this part of Alaska. The DEIS indicates that if displacement cannot be avoided, a new location would need to maintain access to ports and the existing rail network, which may be difficult to find. The relocation process could impact shipping schedules in the near- and long-term, which could affect the delivery of critical goods and services to rural and Alaska Native village communities in Alaska.17 EPA recommends that FTA plan to avoid, minimize, and mitigate anticipated impacts from the displacement and relocation of the business and near- and long-term effects to the transport of goods and services to rural and Alaska Native village communities in Alaska. As previously stated, EPA recommends FTA hold government-to-government consultations with Federally Recognized Tribes in the Aleutian/Pribilof Islands Region to discuss the nature of the impacts to the transport of goods and services to rural communities and Alaska Native villages in Western Alaska and the Aleutian Islands if the project disrupts their ability to receive year-round critical goods and services in these remote areas. To avoid impacts to rural communities and Alaska Native villages in Western Alaska and the Aleutian Islands resulting from disruptions to their ability to receive year-round critical goods and services, EPA recommends FTA consider whether Preferred Tunnel 14th Avenue (IBB-2a*) Alternative is a viable option for the Interbay/Ballard segment. Its estimated project costs (\$1.5 billion) are similar to the two alternatives that would impact Coastal Transportation, Alternative IBB-1a (Preferred Elevated 14th Avenue) at \$1.5 to 1.6 billion and Alternative Option IBB-1b (Elevated 14th Avenue Alignment Option) at \$1.6 billion.18 Preferred Tunnel 14th Avenue would also avoid maritime business displacements, including Coastal Transportation, will result in fewer residential displacements, avoid the permanent in-water effects of the elevated alternatives, and avoid the navigation channel impacts of a new bridge over Salmon Bay.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
7	<p>West Duwamish Greenbelt Great Blue Heron Rookery EPA recommends that the FEIS include the great blue heron habitat management plan for work within the great blue heron management zone, including the known great blue heron rookery located in the West Duwamish Greenbelt that may be affected by the project. As indicated in the DEIS, since this species is protected by the state, the City of Seattle requires a management plan that normally includes a year-round, 197-foot-radius buffer around nesting colonies, with an additional 300-foot buffer during the nesting season (February 1 through August 31). The plan may include a variety of measures such as retaining trees to screen the colony, work sequencing in the buffers, preventing specific loud activities during the nesting season, monitoring during nesting season, or other measures as developed in coordination with Washington Department of Fish and Wildlife, the City of Seattle, and United States Fish and Wildlife Service.</p>	<p>Please see Section 4.9, Ecosystems of the Final EIS for information on mitigation for impacts to great blue heron. If Preferred Alternative DUW-1a or Option DUW-1b are selected by the Sound Transit Board as the project to be built, Sound Transit will prepare a great blue heron habitat management plan that will comply with City of Seattle requirements and Washington Department of Fish and Wildlife and US Fish and Wildlife guidelines. The plan will be prepared as part of final design, after the Sound Transit Board selects the project to be built.</p>
8	<p>Preferred Alternatives with Third-Party Funding EPA recommends the FEIS clarify the status and potential of “third-party” funds for Preferred Alternatives with Third-Party Funding (e.g., whether funds have been or are currently being sought). This additional information will provide transparency on the likelihood of these “preferred” alternatives coming to fruition. The DEIS indicates the additional funding for these alternatives would need to come from contributions from partner agencies outside of Sound Transit, such as the City of Seattle, the FTA, or others.</p> <p>According to the DEIS, when the Sound Transit Board identified alternatives for study, early cost estimates indicated that some alternatives could require additional funding beyond what was assumed in the Sound Transit 3 financing plan, and include enhancements such as tunnels in West Seattle, alternatives in the Chinatown/International District that require replacement of the 4th Avenue South Viaduct, and tunnelling below Salmon Bay. 20 Because the effects to communities and aquatic resources greatly differ between Preferred Alternatives and Preferred Alternatives with Third-Party Funding, it would help inform the public on how likely, or not, the Preferred Alternatives with Third-Party funding are to move forward and be selected by FTA for implementation in the Record of Decision.</p>	<p>Please see response to CC2c in Table 7-1 regarding third-party funding for the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension preferred alternatives will be provided as part of the environmental review process for the Ballard Link Extension.</p>

VIA EMAIL

April 28, 2022

WSBLE Draft Environmental Impact Statement (EIS) Comments
c/o Lauren Swift
401 S. Jackson Street
Seattle, WA 98104

Dear Ms. Swift:

The U.S. Postal Service thanks Sound Transit and the Federal Transit Administration (FTA) for providing it the opportunity to comment on the Draft EIS for the West Seattle and Ballard Link Extensions. Additionally, the Postal Service appreciates the multiple briefings Sound Transit and FTA personnel have provided, most recently on January 26, 2022, given the potential for significant impacts to postal operations from certain of the Alternatives under consideration.

SODO Impacts

At our January 26th meeting, we shared our concerns that even temporary (weekend and evening) closures of the driveway access at the USPS Seattle Vehicle Maintenance Facility (Seattle VMF) located at 2450 4th Avenue South, Seattle, WA 98134-9351 due to the construction of the Lander Street overpass (SODO-1a At Grade and Staggered Station Configurations), would have significant impacts on the Postal Service's six to seven days per week operations. Additionally, as already noted by Sound Transit, the other SODO alternatives would require the complete replacement of the Seattle VMF.

With respect to the requirements for the SODO-1a overpass itself, the Postal Service has retained an architectural firm, Cornerstone Architectural Group, whose comments regarding height requirements and lane configurations are incorporated as Attachment 1.

South Interbay Impacts

Sound Transit has already noted that SIB-3 would require the relocation of the USPS Interbay Carrier Facility, located at 2010 15th Ave W, Seattle, WA. With respect to the SIB-2 Alternative, and as detailed in the Cornerstone letter, track improvements across W Newton St. would result in the loss of parking spots, would impede carrier travel routes to the west of 15th Avenue W, and would prevent full use of the building for our vehicles, including truck access to our loading dock, that would render the carrier location unusable for Postal operations and would require the relocation of this carrier annex should the SIB-2 Alternative be selected.

The Postal Service thanks Sound Transit and FTA again for considering its concerns and seeking to advance its important public transit goals while minimizing impacts to postal operations in the West Seattle area. If we can provide any additional information as you consider the Alternatives, please do not hesitate to let us know.

Sincerely yours,

Joseph Lowe
United States Postal Service
Director, Facilities Planning

Attachment 1



6161 NE 175th Street, Suite 101
Kenmore, Washington 98028
206.682.5000
cornerstonearch.com

April 27, 2022

Ken Sorak
United States Postal Service A/E
Headquarters Facilities Implementation
200 East Kentucky AVE
Denver, CO 80209-9950

Re: Proposed Seattle City Transit Expansion Review. VMF 4th & Lander / SIB-3 Option.

Dear Ken:

Following our review of both locations as detailed below we have come to the mutual opinion that the following findings should be considered when further review is being preformed.

Seattle, WA VMF located at 4th & Lander St. The proposed bridge or overpass detailed at this location should not pose any functional hardship to the USPS daily operations or impact of operatons as long as the clear height of said structure has a minimum of 16ft in the clear. This will allow all USPS delivery vehicles unobstructed access to the facility. During design efforts it would be recommended that turn lanes would be utilized to avoid traffic congestion at that specific locaton.

SIB-3 Option. As detailed in the supplied documents and review of current existing conditions, this option will impose several operational issues that will need to be addressed before further consideration should be given.

2A. Exisitng Parking - With the SIB-3 option, USPS would loose approximately 4 onsite spaces along the corner of 15th Ave W / W Newton St. With no area to expand or relocate the exisng parking spaces - in addition to no on-street availibility, this is an issue for both employee and customer parking.

2B. Operations - All USPS delivery trucks are currently required to "back in only" to gain access to the loading dock area as there is no truck maneuvering area on site. Unfortunately, if there are new structures erected or street realignment to support the rail expansion, there will no place for truck staging or maneuvering as normal. This means all trucks that currently are staged on the adjacent streets 15th Ave or W. Newton St will be required to find holding areas elsewhere or unfortunately on the existing rail road tracks during high traffic impact times of the day. This will pose several safety concerns for both transportation and pedestrian traffic.



Cornerstone
ARCHITECTURAL GROUP

6161 NE 175th Street, Suite 101
Kenmore, Washington 98028
206.682.5000
cornerstonearch.com

Please do not hesitate to contact me with any questions and thanks again for the opportunity to help.

Respectfully,

Ted Tolle
Senior Project Manager
Cornerstone Architectural Group

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 502992- United States Postal Service Draft EIS Comment

#	Comments	Responses
1	<p>At our January 26th meeting, we shared our concerns that even temporary (weekend and evening) closures of the driveway access at the USPS Seattle Vehicle Maintenance Facility (Seattle VMF) located at 2450 4th Avenue South, Seattle, WA 98134-9351 due to the construction of the Lander Street overpass (SODO-1a At Grade and Staggered Station Configurations), would have significant impacts on the Postal Service's six to seven days per week operations. Additionally, as already noted by Sound Transit, the other SODO alternatives would require the complete replacement of the Seattle VMF.</p>	<p>Preferred Option SODO-1c has a staggered station configuration that was developed in order to avoid property owned by the United States Postal Service at 4th Avenue South and South Lander Street. Please see Section 4.14, Public Services, Safety, and Security of the West Seattle Link Extension Final EIS for more information on anticipated impacts to this facility during construction.</p>
2	<p>South Interbay Impacts Sound Transit has already noted that SIB-3 would require the relocation of the USPS Interbay Carrier Facility, located at 2010 15th Ave W, Seattle, WA. With respect to the SIB-2 Alternative, and as detailed in the Cornerstone letter, track improvements across W Newton St. would result in the loss of parking spots, would impede carrier travel routes to the west of 15th Avenue W, and would prevent full use of the building for our vehicles, including truck access to our loading dock, that would render the carrier location unusable for Postal operations and would require the relocation of this carrier annex should the SIB-2 Alternative be selected. The Postal Service thanks Sound Transit and FTA again for considering its concerns and seeking to advance its important public transit goals while minimizing impacts to postal operations in the West Seattle area. If we can provide any additional information as you consider the Alternatives, please do not hesitate to let us know.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
3	<p>Seattle, WA VMF located at 4th & Lander St. The proposed bridge or overpass detailed at this location should not pose any functional hardship to the USPS daily operations or impact of operations as long as the clear height of said structure has a minimum of 16ft in the clear. This will allow all USPS delivery vehicles unobstructed access to the facility. During design efforts it would be recommended that turn lanes would be utilized to avoid traffic congestion at that specific location.</p>	<p>Preferred Option SODO-1c has a staggered station configuration that was developed in order to avoid property owned by the United States Postal Service at 4th Avenue South and South Lander Street. Please see Sections 4.14, Public Services, Safety, and Security and 3.10, Affected Environment and Impacts During Operation-Freight Mobility and Access of the Final EIS for more information on impacts to this facility and impacts to freight from the Lander Street overpass. Sound Transit will continue to coordinate with USPS and the City of Seattle regarding the overpass design to meet USPS requirements and city design standards.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>SIB-3 Option. As detailed in the supplied documents and review of current existing conditions, this option will impose several operational issues that will need to be addressed before further consideration should be given. 2A. Existing Parking – With the SIB-3 option, USPS would lose approximately 4 onsite spaces along the corner of 15th Ave W / W Newton St. With no area to expand or relocate the existing parking spaces – in addition to no on-street availability, this is an issue for both employee and customer parking. 2B. Operations - All USPS delivery trucks are currently required to “back in only” to gain access to the loading dock area as there is no truck maneuvering area on site. Unfortunately, if there are new structures erected or street realignment to support the rail expansion, there will be no place for truck staging or maneuvering as normal. This means all trucks that currently are staged on the adjacent streets 15th Ave or W. Newton St will be required to find holding areas elsewhere or unfortunately on the existing rail road tracks during high traffic impact times of the day. This will pose several safety concerns for both transportation and pedestrian traffic.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Appendix O.2.2.2, State Agencies

Comments were received from the following State Agencies:

- Department of Archaeology and Historic Preservation
- Department of Ecology
- Department of Natural Resources
- Department of Transportation
- Recreation and Conservation Office

The following attachments provide these submittals in the order listed above, along with responses to comments.

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Allyson Brooks Ph.D., Director
State Historic Preservation Officer

April 27, 2022

Ms. Linda Gehrke
Regional Administrator
Federal Transit Administration
915 Second Avenue
Suite 3142
Seattle, WA. 98174-1002

In future correspondence please refer to:
Project Tracking Code: 2019-02-01457
Property: King County_ West Seattle To Ballard Light Rail Extension
Re: Draft EIS Comments

Dear Ms. Gehrke:

Thank you for contacting the Washington State Historic Preservation Officer (SHPO) and Department of Archaeology and Historic Preservation (DAHP) regarding the above referenced proposal. In response, we have reviewed the Draft EIS materials you provided for this project.

We look forward to continuing consultation on the potential affects the federal undertaking poses to historic properties, in which we anticipate being consulted upon a revised Area of Potential Effect (APE) once a preferred alternative has been selected. Please ensure to consider an APE that sufficiently considers physical, auditory, visual, cumulative, environmental, socio-economic, and similar effects, all of which directly relate to historic properties. We also highly encourage FTA to ensure the agency sufficiently considers and incorporates the comments and concerns provided by other consulting parties as the project progresses. We would also like to encourage FTA prepare more frequent consultation with all consulting parties, due to the significant potential for effects and large number of consulting parties, in order ensure they are receiving equitable time and consideration to address their concerns and comments.

We appreciate receiving copies of any correspondence or comments from concerned tribes and other parties that you receive as you consult under the requirements of 36 CFR 800.4(a)(4). These comments are based on the information available at the time of this review and on behalf of the SHPO pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR 800.

Thank you for the opportunity to review and comment. If you have any questions, please feel free to contact me.

Sincerely,

Dennis Wardlaw
Transportation Archaeologist
(360) 485-5014
dennis.wardlaw@dahp.wa.gov



Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 505566 – Washington State Department of Archaeology and Historic Preservation Draft EIS Comment

#	Comments	Responses
1	<p>We look forward to continuing consultation on the potential affects the federal undertaking poses to historic properties, in which we anticipate being consulted upon a revised Area of Potential Effect (APE) once a preferred alternative has been selected. Please ensure to consider an APE that sufficiently considers physical, auditory, visual, cumulative, environmental, socio-economic, and similar effects, all of which directly relate to historic properties. We also highly encourage FTA to ensure the agency sufficiently considers and incorporates the comments and concerns provided by other consulting parties as the project progresses. We would also like to encourage FTA prepare more frequent consultation with all consulting parties, due to the significant potential for effects and large number of consulting parties, in order ensure they are receiving equitable time and consideration to address their concerns and comments. We appreciate receiving copies of any correspondence or comments from concerned tribes and other parties that you receive as you consult under the requirements of 36 CFR 800.4(a)(4). These comments are based on the information available at the time of this review and on behalf of the SHPO pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations 36 CFR 800.</p>	<p>Thank you for your comments on the WSBLE Draft EIS. Sound Transit and FTA have continued to coordinate with DAHP through the Section 106 consultation process.</p>



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

Northwest Regional Office • PO Box 330316 • Shoreline, Washington 98133-9716 • (206) 594-0000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

April 28, 2022

Lauren Swift
Sound Transit
401 South Jackson Street
Seattle, WA 98104-2826

**Re: West Seattle and Ballard Link Extensions Project
Ecology SEPA# 202200282**

Dear Lauren Swift:

Thank you for the opportunity to provide comments on the State Environmental Policy Act (SEPA) Draft Environmental Impact Statement (EIS) for the West Seattle and Ballard Link Extensions Project. Based on review of the checklist associated with this project, the Department of Ecology (Ecology) has the following comments:

SHORELANDS AND ENVIRONMENTAL ASSISTANCE PROGRAM

Rebekah Padgett, (425) 365-6571, rebekah.padgett@ecy.wa.gov

As noted in the Draft EIS, it is likely, depending on the design and construction, that each of the projects, West Seattle and Ballard Link Extensions, would require both a Section 401 Water Quality Certification and Coastal Zone Management (CZM) Consistency decision. For more information, please contact Rebekah Padgett, 401/CZM Federal Permit Manager, at the contact information listed above.

WATER QUALITY PROGRAM

Jeff Killelea, (360) 407-6460, jeff.killelea@ecy.wa.gov

Ecology recommends that Sound Transit be prepared to design and install stormwater runoff treatment for ST3 projects not yet in design and which are scheduled to be completed between 2030 and 2041, in the event that the stormwater characterization study of light rail guideway and/or 2024 Final Stormwater Management Manuals for Western Washington (SWMM) indicates that pollutant concentrations from these guideway surfaces are pollution generating.

Ecology's 2024 SWMM will clarify whether light rail guideway is a pollution generating impervious surface, a definition used in the SWMM to determine if runoff treatment is required for elevated light rail guideway constructed during new development or redevelopment activity. This SWMM update will be based upon all available credible information, including data from the Sound Transit's study characterizing stormwater runoff from Sound Transit's light rail guideway.

Under the terms of a [2019 Memorandum of Understanding](#), Sound Transit and Ecology agreed to work cooperatively to conduct a study to characterize the quality of stormwater discharged from light rail guideway. The study will be completed in accordance with an Ecology-approved Quality Assurance Project Plan (QAPP), within two (2) years from the effective date of the approved QAPP. The data and analysis from the study will be used, among other things, to inform the design of future Sound Transit light rail projects that will be completed between 2030 and 2041 and that may discharge storm water to surface waters of the state.

Thank you for considering these comments from the Department of Ecology. If you have questions or would like to respond to these comments, please contact one of the commenters listed above.

Sincerely,

Kelli Sheldon

Kelli Sheldon
SEPA Coordinator

Sent by email: Lauren Swift, WSBLEDEIScomments@soundtransit.org

ecc: Rebekah Padgett, Ecology
Jeff Killelea, Ecology

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504762 - Washington State Department of Ecology Draft EIS Comment

#	Comments	Responses
1	As noted in the Draft EIS, it is likely, depending on the design and construction, that each of the projects, West Seattle and Ballard Link Extensions, would require both a Section 401 Water Quality Certification and Coastal Zone Management (CZM) Consistency decision.	Thank you for confirming the permit requirements for the project. Sound Transit will continue coordinating with Ecology regarding permits as each extension advances.
2	Ecology recommends that Sound Transit be prepared to design and install stormwater runoff treatment for ST3 projects not yet in design and which are scheduled to be completed between 2030 and 2041, in the event that the stormwater characterization study of light rail guideway and/or 2024 Final Stormwater Management Manuals for Western Washington (SWMM) indicates that pollutant concentrations from these guideway surfaces are pollution generating. Ecology's 2024 SWMM will clarify whether light rail guideway is a pollution generating impervious surface, a definition used in the SWMM to determine if runoff treatment is required for elevated light rail guideway constructed during new development or redevelopment activity. This SWMM update will be based upon all available credible information, including data from the Sound Transit's study characterizing stormwater runoff from Sound Transit's light rail guideway. Under the terms of a 2019 Memorandum of Understanding, Sound Transit and Ecology agreed to work cooperatively to conduct a study to characterize the quality of stormwater discharged from light rail guideway. The study will be completed in accordance with an Ecology-approved Quality Assurance Project Plan (QAPP), within two (2) years from the effective date of the approved QAPP. The data and analysis from the study will be used, among other things, to inform the design of future Sound Transit light rail projects that will be completed between 2030 and 2041 and that may discharge storm water to surface waters of the state.	Please see Section 4.8, Water Resources, of the West Seattle Link Extension Final EIS, which states that Sound Transit has agreed to conduct a study to characterize the quality of the stormwater discharged from light rail guideways to inform the design of future projects.

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**DEPARTMENT OF
NATURAL RESOURCES**

SOUTH PUGET SOUND REGION

950 FARMAN AVENUE NORTH
ENUMCLAW, WA 98022

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WWW.DNR.WA.GOV

April 28, 2022

WSBLE Draft EIS Comments
C/o Lauren Swift
Sound Transit
401 S. Jackson Street
Seattle, WA 98104-2826

Subject: Washington State Department of Natural Resources (Aquatics) Response to Draft (EIS) for the Sound Transit West Seattle / Ballard Link Extensions Project

To whom it may concern:

Thank you for the opportunity to provide comments on the Draft Environmental Impact Statement (EIS) for the West Seattle and Ballard Link Extensions Project located in King County. The Department of Natural Resources is steward of Washington's aquatic lands and their resources. Aquatic lands are managed for current and future citizens of the state to sustain long-term ecosystem and economic vitality, and to ensure access to the aquatic lands and the benefits derived from them. Washington DNR's management authority derives from the State's Constitution (Articles XV, XVII, XXVII), Revised Code (RCW 79.02 and 79.105) and Administrative Code (WAC 332-30). As proprietary manager of state-owned aquatic lands, DNR has been directed to manage the lands "...for the benefit of the public" in a manner that provides "...a balance of public benefits for all citizens of the state" that includes"

Encouraging direct public use and access

Fostering water-dependent uses

Ensuring environmental protection, and

Utilizing renewable resources.

In addition, generating revenue in a manner consistent with subsections 1) through 4) of this section is a public benefit (RCW 79.105.030).



**DEPARTMENT OF
NATURAL RESOURCES**

SOUTH PUGET SOUND REGION
950 FARMAN AVENUE NORTH
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The Washington Department of Natural Resources (DNR) manages State-owned aquatic lands within the State of Washington, including Salmon Bay and the Duwamish Waterway. Assuming the project is consistent with WAC 197-11-060, DNR offers the following comments:

1. To ensure sustainable management of state-owned aquatic lands, DNR has established environmental protection goals. These goals seek to ensure uses of state-owned land do not result in: shading that harms aquatic vegetation and fish migration; compaction, disruption, or impeding the natural movement of sediments; underwater noise that can disrupt important aquatic species when they are most vulnerable; or, release harmful contamination and waste. DNR is committed to working with applicants, in coordination with permitting agencies, to find ways to avoid impacts to aquatic habitats and species on state-owned aquatic land. Mitigation will be required for any authorized expansion of overwater cover or any authorized in water work within state owned aquatic lands. Once the preferred option(s) are chosen for Salmon Bay and the Duwamish Waterway, please submit a plan set to DNR for review prior to application submittal, so we may give further guidance on how to minimize habitat impacts and/or provide mitigation guidance.
2. Sound Transit must obtain authorization from DNR prior to building structures in the water and air space above state-owned aquatic lands, or other resources for commercial use. Because this project is related to public transportation, any DNR approvals will be issued in the form an easement contract. There are several administrative components that are required to be submitted by the applicant before issuing the contract. It is suggested that Sound Transit contact the easement manager early in the process to obtain a list of items needed.
3. For each project area (Salmon Bay / Duwamish Waterway), it is assumed that three easement contracts will be required:
 - (a) An easement is required for the preferred option(s). This authorizes the permanent pathway of the easement area needed over the aquatic area, plus any additional area needed for maintenance. It is the responsibility of the proponent to inform DNR of the area needed for maintenance.
 - (b) A temporary easement will be required to authorize construction areas adjacent to the permanent easement area. This is only for expanded areas needed for construction (for example staging, temporary coffer dams, scaffolding).
 - (c) A temporary right of entry will be required for construction barges that may need to spud on state owned aquatic lands.



**DEPARTMENT OF
NATURAL RESOURCES**

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4. A formal survey(s) will be required for the easement(s) and temporary construction easement(s). DNR may allow a GPS exhibit for the right of entry (barge locations). The applicant is responsible for: all costs and work associated with creating, submitting, revising and recording the Record of Survey, submitting a preliminary Record of Survey for review and approval by the department, and recording the final Record of Survey with the county auditor's office.
5. Salmon Bay contains aquatic lands categorized as: (a) Port Management Area (Fisherman's Terminal), (b) DNR-managed waterways, (c) private tidelands, (d) the Lake Washington Ship Canal, and (e) DNR leaseholds that may be impacted by the proposed project(s). Depending on which option Sound Transit pursues; DNR will include Jordanna Warneck, Salmon Bay Land Manager, Vivian Roach, City of Seattle Land Manager, and our future Ports Program Manager in project discussions for that area. Please note DNR intends to coordinate with any affected lessees before authorizing easements over existing leasehold areas.
6. The Duwamish Waterway contains aquatic lands categorized as: (a) Port Management Areas (Port of Seattle Terminals 5, 18, and 25), (b) DNR-managed waterways, (c) DNR-managed harbor area, (d) DNR leaseholds that may be impacted by the proposed project(s), and (e) private tidelands. Depending on which option Sound Transit pursues; DNR will include Vivian Roach, City of Seattle Land Manager, and our future Ports Program Manager in project discussions for that area. Please note DNR intends to coordinate with any affected lessees before authorizing easements over existing leasehold areas.
7. Salmon Bay and the Duwamish Waterway are both on the Department of Ecology's list of impaired and threatened waters (known as 303d list generated by the EPA). Due to the containments in these waters, and related sediment, DNR will need to review any project components that will disturb the sediment during construction. Once the preferred option(s) are chosen for Salmon Bay and the Duwamish Waterway, please submit a plan set to DNR for review prior to application submittal, so we may give further guidance on how to minimize sediment impacts and/or provide mitigation guidance.
8. Before DNR can issue an easement or right of entry, all environmental permits will need to be submitted for review. The easement manager is available to meet with regulatory agencies to discuss the proposal in an effort to meet mutual goals while avoiding unnecessary expense or delays in the review of project proposals.



**DEPARTMENT OF
NATURAL RESOURCES**

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WWW.DNR.WA.GOV

9. DNR reserves the right to comment on future amendments and revisions to this proposal.

Please feel free to contact me at (206) 455-1014 or Sherri.Gallant@dnr.wa.gov to discuss the application and authorization process.

Sincerely,

Sherri L. Gallant

Shoreline District

Easement Land Manager

Sherri.Gallant@dnr.wa.gov

(206) 455-1014

C: Derrick Toba, Vivian Roach, Jordanna Warneck

Communication ID: 503105 - Washington State Department of Natural Resources Draft EIS Comment

#	Comments	Responses
1	<p>To ensure sustainable management of state-owned aquatic lands, DNR has established environmental protection goals. These goals seek to ensure uses of state-owned land do not result in: shading that harms aquatic vegetation and fish migration; compaction, disruption, or impeding the natural movement of sediments; underwater noise that can disrupt important aquatic species when they are most vulnerable; or, release harmful contamination and waste. DNR is committed to working with applicants, in coordination with permitting agencies, to find ways to avoid impacts to aquatic habitats and species on state-owned aquatic land. Mitigation will be required for any authorized expansion of overwater cover or any authorized in water work within state owned aquatic lands. Once the preferred option(s) are chosen for Salmon Bay and the Duwamish Waterway, please submit a plan set to DNR for review prior to application submittal, so we may give further guidance on how to minimize habitat impacts and/or provide mitigation guidance.</p>	<p>Please see Section 4.9, Ecosystems, of the West Seattle Link Extension Final EIS for updated mitigation information. Sound Transit will submit a plan set to DNR for review prior to application submittal.</p>
2	<p>Sound Transit must obtain authorization from DNR prior to building structures in the water and air space above state-owned aquatic lands, or other resources for commercial use. Because this project is related to public transportation, any DNR approvals will be issued in the form an easement contract. There are several administrative components that are required to be submitted by the applicant before issuing the contract. It is suggested that Sound Transit contact the easement manager early in the process to obtain a list of items needed. For each project area (Salmon Bay / Duwamish Waterway), it is assumed that three easement contracts will be required:</p> <ul style="list-style-type: none"> o (a) An easement is required for the preferred option(s). This authorizes the permanent pathway of the easement area needed over the aquatic area, plus any additional area needed for maintenance. It is the responsibility of the proponent to inform DNR of the area needed for maintenance. o (b) A temporary easement will be required to authorize construction areas adjacent to the permanent easement area. This is only for expanded areas needed for construction (for example staging, temporary coffer dams, scaffolding). o (c) A temporary right of entry will be required for construction barges that may need to spud on state owned aquatic lands. A formal survey(s) will be required for the easement(s) and temporary construction easement(s). DNR may allow a GPS exhibit for the right of entry (barge locations). The applicant is responsible for: all costs and work associated with creating, submitting, revising and recording the Record of Survey, submitting a preliminary Record of Survey for review and approval by the department, and recording the final Record of Survey with the county auditor's office. 	<p>Sound Transit will initiate early coordination with DNR to ensure all regulations are met. Sound Transit anticipates initiating a similar process for the Ballard Link Extension Final EIS. Potential impacts to Salmon Bay will be addressed as part of the environmental review process for the Ballard Link Extension</p>
3	<p>Salmon Bay contains aquatic lands categorized as: (a) Port Management Area (Fisherman's Terminal), (b) DNR-managed waterways, (c) private tidelands, (d) the Lake Washington Ship Canal, and (e) DNR leaseholds that may be impacted by the proposed project(s). Depending on which option Sound Transit pursues; DNR will include Jordanna Warneck, Salmon Bay Land Manager, Vivian Roach, City of Seattle Land Manager, and our future Ports Program Manager in project discussions for that area. Please note DNR intends to coordinate with any affected lessees before authorizing easements over existing leasehold areas.</p>	<p>Comment noted. Thank you for providing contact information for DNR staff.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>The Duwamish Waterway contains aquatic lands categorized as: (a) Port Management Areas (Port of Seattle Terminals 5, 18, and 25), (b) DNR-managed waterways, (c) DNR-managed harbor area, (d) DNR leaseholds that may be impacted by the proposed project(s), and (e) private tidelands. Depending on which option Sound Transit pursues; DNR will include Vivian Roach, City of Seattle Land Manager, and our future Ports Program Manager in project discussions for that area. Please note DNR intends to coordinate with any affected lessees before authorizing easements over existing leasehold areas.</p>	<p>Comment noted. Thank you for providing contact information for DNR staff.</p>
5	<p>Salmon Bay and the Duwamish Waterway are both on the Department of Ecology's list of impaired and threatened waters (known as 303d list generated by the EPA). Due to the containments in these waters, and related sediment, DNR will need to review any project components that will disturb the sediment during construction. Once the preferred option(s) are chosen for Salmon Bay and the Duwamish Waterway, please submit a plan set to DNR for review prior to application submittal, so we may give further guidance on how to minimize sediment impacts and/or provide mitigation guidance.</p>	<p>Sound Transit will provide a complete plan set to DNR prior to application submittal.</p>
6	<p>Before DNR can issue an easement or right of entry, all environmental permits will need to be submitted for review. The easement manager is available to meet with regulatory agencies to discuss the proposal in an effort to meet mutual goals while avoiding unnecessary expense or delays in the review of project proposals. DNR reserves the right to comment on future amendments and revisions to this proposal.</p>	<p>Comment noted. Sound Transit will continue to coordinate with DNR as design advances and in preparation for permitting.</p>



Regional Transit Coordination Division
C/O Sound Transit Union Station
401 South Jackson Street
Seattle, WA 98104
206-464-1220 / FAX: 206-464-1189
TTY: 1-800-833-6388
www.wsdot.wa.gov

April 25, 2022

Sound Transit, West Seattle and Ballard Link Extensions Project
c/o Lauren Swift, Central Corridor Environmental Manager
401 S Jackson St., Seattle, WA 98104

RE: West Seattle and Ballard Link Extensions Draft Environmental Impact Statement

The Washington State Department of Transportation (WSDOT) is pleased to provide comments on the Draft Environmental Impact Statement (DEIS) for the West Seattle and Ballard Link Extensions (WSBLE) Project. The project aligns with WSDOT's vision of providing a sustainable and integrated multimodal transportation system.

Some key priorities from the attached comment sheet are listed below.

1. A significant WSDOT Maintenance facility, crucial to serving Interstate 90 (I-90) and Interstate 5 (I-5), is located on King County Parcel number 7666204145. The DEIS shows potential impacts to this site that may compromise the use of this property. Please coordinate with WSDOT immediately regarding these impacts.
2. The DEIS shows impacts to some WSDOT-owned parcels that WSDOT is either currently leasing to others or WSDOT projects have deemed necessary to the Agency. Please coordinate with WSDOT on the use of these parcels, as the current leases and project requirements must be carefully considered.
3. The ownership of the SODO Busway is complex and must be confirmed as impacts here could affect multiple agencies.
4. Please evaluate the potential impacts that the 4th Avenue options could have on I-90.
5. Please obtain WSDOT support on any closures of WSDOT ramps and roadways.
6. Consider connecting this work to the recent funding for improved Active Transportation in Washington State.

Please contact Jessica Giblin, WSDOT Regional Transit Coordination Division (RTCD) environmental liaison, with any questions regarding this letter or the attached comment sheet.

WSDOT appreciates the opportunity to review and looks forward to future collaboration with Sound Transit.

Sincerely,

Dylan Counts

Dylan Counts, WSDOT RTCD Director
COUNTSD@wsdot.wa.gov (206) 464-1232

cc: Jessica Giblin, WSDOT RTCD Environmental Liaison GiblinJ@WSDOT.WA.GOV (206) 464-1251

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 503211 – Washington State Department of Transportation Draft EIS Comment

#	Comments	Responses
1	A significant WSDOT Maintenance facility, crucial to serving Interstate 90 (I-90) and Interstate 5 (I-5), is located on King County Parcel number 7666204145. The DEIS shows potential impacts to this site that may compromise the use of this property. Please coordinate with WSDOT immediately regarding these impacts.	Please see response to comment #5 in the attached comment table.
2	The DEIS shows impacts to some WSDOT-owned parcels that WSDOT is either currently leasing to others or WSDOT projects have deemed necessary to the Agency. Please coordinate with WSDOT on the use of these parcels, as the current leases and project requirements must be carefully considered.	Comment noted. Sound Transit will continue to coordinate with WSDOT as each extension advances regarding property interests that may be needed from WSDOT properties.
3	The ownership of the SODO Busway is complex and must be confirmed as impacts here could affect multiple agencies.	Comment noted. Sound Transit continues to coordinate with King County Metro and WSDOT regarding acquisition of the SODO Busway.
4	Please evaluate the potential impacts that the 4th Avenue options could have on I-90.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
5	Please obtain WSDOT support on any closures of WSDOT ramps and roadways.	Comment noted. Sound Transit will continue to coordinate with WSDOT regarding any road or ramp closures of WSDOT facilities that would be needed for either extension.
6	Consider connecting this work to the recent funding for improved Active Transportation in Washington State.	Please see responses to comment #16 in the attached comment table.

West Seattle and Ballard Link Extensions Project
Comment Form for WSDOT Review of the Draft EIS
Comments Due: April 28th 2022

#	DEIS Chapter	Page	Comment	Reviewer	Response
1	Throughout as applicable		All proposed utility activities such as installation, removal, deactivation, relocation, modification, and verification within WSDOT owned transportation right of way (e.g. limited access inside city limits) are subject to WSDOT utility permit and franchise.	WSDOT Utilities (C. Lee)	Comment noted. Sound Transit will continue to coordinate with Washington State Department of Transportation (WSDOT) on utility relocations within WSDOT right-of-way as design advances.
2	Throughout as applicable		All project stormwater runoff discharges into existing WSDOT stormwater system and/or onto WSDOT right of way is subject to WSDOT stormwater discharge permit.	WSDOT Utilities (C. Lee)	Comment noted. The West Seattle Link Extension does not propose to discharge to any WSDOT stormwater systems. A response to this comment related the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
3	Chapter 4		Sentence "The West Seattle Junction Segment has estimated arsenic concentrations between 20 and 40 parts per million, which is above the level considered as protective of human health and the environment but is below the Washington State Department of Ecology's action level of 100 parts per million (Ecology 2019)." is inaccurate. The MTCA cleanup level for arsenic in soil for unrestricted land uses is 20 ppm. The 100 ppm "action limit" is for the state funded soil removal program for residential properties. The WSBLE Project is not a private residence, and soils associated with it do not qualify for state funded cleanup money. If soils contain arsenic above 20 ppm, they will need to be handled in accordance with applicable rules and regulations. Sentence should be corrected to remove references to an action limit of 100 ppm.	WSDOT Hazmat (A. Conrad)	The text in the West Seattle Link Extension Final EIS has been updated regarding this topic.
4	Chapter 4		Harbor Island superfund site is actually Harbor Island (Lead) Superfund site. Dioxins and furans are also listed contaminants at the Harbor Island (Lead) Superfund site.	WSDOT Hazmat (A. Conrad)	The text in the West Seattle Link Extension Final EIS has been updated regarding this topic.
5	Throughout as applicable		WSDOT Parcel (King Co Parcel #7666204145), Address 450 S Spokane St. Seattle 98134 - This is a WSDOT Maintenance facility. Any impacts to this site that will limit the use by WSDOT or encumber the property long term will likely not be approved by WSDOT because this is the primary roadway maintenance & operations facility in the city limits of Seattle and is critical to I-90, I-5, and SR 520. If this is a serious proposal please coordinate with WSDOT immediately as this crossing will eliminate the majority of the use and value of this parcel.	WSDOT Maintenance (L. Fanning)	Sound Transit has continued to coordinate with WSDOT regarding potential use of this parcel for the West Seattle Link Extension as preliminary design has progressed.
6	Throughout as applicable		Midtown Station staging area and ventilation site (ROW Under I-5 between Columbia and James Street) - WSDOT is currently leasing the ROW under I-5 between James and Columbia Streets that have been identified for use for the Midtown Station for a parking lot. In addition to the lease for the parking lot, WSDOT is leasing a small portion of the lot area to both the City of Seattle and King County Metro under two separate leases. These leases will need to be considered. Please coordinate with WSDOT Real Estate on this parcel.	WSDOT Real Estate (D. Logan)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

West Seattle and Ballard Link Extensions Project
Comment Form for WSDOT Review of the Draft EIS
Comments Due: April 28th 2022

#	DEIS Chapter	Page	Comment	Reviewer	Response
7	Throughout as applicable		SODO Busway - Sound Transit has not yet engaged WSDOT for potential impacts to the SODO Busway. The ownership of some of the Busway would return to WSDOT once the transit-only road is no longer required by King County Metro. Additionally, the ownership of the SODO Busway (also called the E-3 Busway) will need to be confirmed. This area's ownership is complex with portions owned by ST, WSDOT and King County Metro. Additionally there are many easements along this corridor.	WSDOT Real Estate (D. Logan)	Sound Transit is coordinating with WSDOT and King County Metro regarding the property transaction needed in the SODO Busway.
8	Throughout as applicable		WSDOT Parcel (King Co Parcel #1991200815) - This is currently a parking lot that the WSDOT Alaskan Way Viaduct Project has deemed still necessary to WSDOT. ST will need to coordinate with WSDOT on any request to use this lot.	WSDOT Real Estate (D. Logan)	A response to this comment will be provided in the Ballard Link Extension Final EIS.
9	Chapter 3	6	This section describes regional facilities but makes no mention of rail, not even the Sounder. Please consider adding a discussion about the role of the existing International District Link station as part of this important multimodal hub.	WSDOT Rail (P. Krueger)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
10	Chapter 3	81	CID-1a and CID-1b both include a new bus stop on 2nd Ave. The sidewalk is fairly narrow at this location and it isn't clear how the bus stop would be added. Would a lane be removed? Would the structure over the tracks be expanded or rebuilt? The impacts of any changes needed to establish a bus stop here need to be identified or the lack of impacts needs to be clarified.	WSDOT Rail (P. Krueger)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
11	Chapter 3	110	"Half of the riders at the International District/Chinatown Station would access it using transit, with most of those transferring between light rail and Sounder commuter rail." The Chinatown-International District Station is part of a major multimodal center with its proximity to intercity (Amtrak and Amtrak Cascades) and commuter (Sounder) passenger rail services at King Street Station, as well as the Seattle Streetcar. The quality of transfers provided by each alternative needs to be directly addressed in more detail and be part of the evaluation for the alternatives at this station. Measures such as the distance from each station entrance to the nearest Sounder platform access and number of at-grade street crossings would be a useful.	WSDOT Rail (P. Krueger)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
12	Throughout as applicable		Please utilize the most recent applicable WSDOT manuals. For example, the DEIS references the WSDOT Hydraulics Manual from 2019. There was a 2022 update.	WSDOT Environmental (J. Giblin)	This has been updated to 2023 (latest version) in Appendix L4.8 of the Final EIS. This is the one location it appears.
13	Executive Summary	44	Table ES-6 (and also chapter 6 table 6-6) discusses closures (both full and partial) of WSDOT ramps and roadways. WSDOT has not yet agreed to these closures. It is advisable to get WSDOT support and agreement.	WSDOT Traffic (A. Bumgarner)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
14	Chapter 3	138	This section discusses trips intending to use the NB express lanes ramp at 5th and Cherry/5th and Columbia. Please note that in the AM hours this is a SB off-ramp, so if this ramp were closed then the trips would need to divert somewhere else.	WSDOT Traffic (A. Bumgarner)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

West Seattle and Ballard Link Extensions Project
Comment Form for WSDOT Review of the Draft EIS
Comments Due: April 28th 2022

#	DEIS Chapter	Page	Comment	Reviewer	Response
15	Fact Sheet & TOC	vi	Anticipated approvals and permits - this list is missing many of the requirements for building a project within WSDOT ROW. Examples - Temporary Construction airspace lease, Basis of Design, Design Approval, Project Development Approval, Hydraulics Report, and others.	WSDOT Engineering (D. Haight)	Air space lease and utility franchise are listed. Other approvals and permits are still to be determined through coordination with WSDOT.
16	Chapter 1		Consider connecting the part of the purpose 'to encourage convenient and safe non-motorized access to stations' to the recent Washington legislative funding for improved Active Transportation. This could also be applied to Appendix K (Projects in Study Area) and other areas as appropriate.	WSDOT Engineering (D. Haight)	These need statements were developed during scoping and provided for comment at that time.
17	Chapter 3		The 4th Ave options require the demolition and replacement of the 4th Ave viaduct. This City of Seattle street connects to I-90 and could cause major impacts to I-90 for years to come.	WSDOT Engineering (D. Haight)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
18	Chapter 4	4.2 8-6	This is the one mention of the Sound Transit/Department of Ecology 2019 stormwater MOU and it states that guideways are non-PGIS. Consider rephrasing to state that it is unknown if it is PGIS at this time, thus the purpose of the MOU.	WSDOT Environmental (J. Giblin)	Sound Transit continues to implement the Memorandum of Understanding, and, at the time of Final EIS preparation, there is no update to this agreement.

West Seattle and Ballard Link Extensions Project
Comment Form for WSDOT Review of Draft EIS - APPENDICES & TECHNICAL REPORTS
Comments Due: April 28th 2022

#	Appendix	Comment	Reviewer	Response
1	Appendix H	As noted in the DEIS and the 4(f) appendix, WSDOT owns Freeway Park. Alternative D2 requires a permanent impact of this 4f and Section 106 property. Please work with WSDOT and Seattle Parks and Recreation if this is pursued.	WSDOT Environmental (J. Giblin)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
2	Appendix K	The DEIS refers readers to Appendix K for a list of upcoming WSDOT projects. Appendix K references the 2020-2023 STIP. Please use the following link for the most recent (2022-2025) STIP. https://wsdot.wa.gov/business-wsdot/support-local-programs/delivering-your-project/statewide-transportation-improvement-program-stip	WSDOT Environmental (J. Giblin)	Updated in Appendix K of the Final EIS consistent with Transportation Technical Report/Transportation methods
3	Appendix J	Conceptual Design drawings for West Seattle- The light rail alignment shown crosses SR 99. WSDOT presumes that when ST proposes to cross SR 99, there will be a grade separation from SR 99 and that all columns will be constructed and operated to avoid impacts to existing WSDOT facilities. Please consider specifying.	WSDOT Engineering (D. Haight)	This is described in Chapter 2. No change to Final EIS plan set.
4	Appendix K	K-2: The construction date should be extended to 2030 for the SR 520 project per the WSDOT web site, https://wsdot.wa.gov/construction-planning/major-projects/sr-520-bridge-replacement-and-hov-program .	WSDOT Engineering (D. Haight)	Updated in Appendix K of the Final EIS.
5	Appendix N1	The closure of 4th Ave in the International District during construction would have a significant impact on I-90. The document does not include impacts to I-90. Please consider discussing this impact. This is also found in Appendix N1A and Appendix N1E.	WSDOT Engineering (D. Haight)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

Sound Transit Projects

Details	Communication
#497398	Hello,
Date Recieved: 3/2/2022	There are four (4) state grant-funded sites that are impacted by the routes for the WSBLE light rail project identified in the DEIS. Those are the West Duwamish Greenway, RCO #92-292; Freeway Park, RCO #69-186 and #73-001; Ship Canal Trail, RCO #91-249 and #96-1163; and the 14th Ave. NW Boat Ramp, RCO #92-290. The Ship Canal Trail was not specifically called out in the DEIS as being state grant funded (through the Recreation and Conservation Office (RCO)).
Created by: Tay Stone	There are no federally funded Land and Water Conservation Fund (LWCF) projects impacted by the proposed route/s.
Audience:	Use or impact from the light rail project to any portion of the grant-funded areas would create a compliance issue or a conversion. A conversion would require Seattle Parks to obtain RCO approval and to replace the impacted land and recreational facilities.
Reach: 1	If there are any questions, please let me know.
Participation:	Myra Barker (she/her)
Engagement: 3	Compliance Specialist
Source: Email	Washington State Recreation and Conservation Office
Assigned division:	C 360-867-8508 TDD call 711
Outreach	https://rco.wa.gov
Category:	
Project Phase: Planning	
Project Segment:	
Environmental phase: Draft EIS	

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 497398 - Washington State Recreation and Conservation Office Draft EIS Comment

#	Comments	Responses
1	<p>There are four (4) state grant-funded sites that are impacted by the routes for the WSBLE light rail project identified in the DEIS. Those are the West Duwamish Greenway, RCO #92-292; Freeway Park, RCO #69-186 and #73-001; Ship Canal Trail, RCO #91-249 and #96-1163; and the 14th Ave. NW Boat Ramp, RCO #92-290. The Ship Canal Trail was not specifically called out in the DEIS as being state grant funded (through the Recreation and Conservation Office (RCO)). There are no federally funded Land and Water Conservation Fund (LWCF) projects impacted by the proposed route/s. Use or impact from the light rail project to any portion of the grant-funded areas would create a compliance issue or a conversion. A conversion would require Seattle Parks to obtain RCO approval and to replace the impacted land and recreational facilities.</p>	<p>Thank you for your comments on the WSBLE Draft EIS. Preferred Alternative DUW-1a in the Duwamish Segment of the West Seattle Link Extension would require acquisition of two parcels purchased with Washington Station RCO funding. Sound Transit will coordinate with Seattle Parks and RCO on the conversion process if this alternative is part of the project selected to be built for the West Seattle Link Extension. A response to the portion of the comment regarding resources in the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O.2.2.3, Regional Agencies

Comments were received from the following Regional Agencies:

- Port of Seattle and Northwest Seaport Alliance
- Puget Sound Clean Air Agency
- Puget Sound Regional Council

The following attachments provide these submittals in the order listed above, along with responses to comments.

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April 28, 2022

WSBLE Draft EIS Comments c/o Lauren Swift
Sound Transit
401 S Jackson St
Seattle WA 98104

Via email: WSBLEDEIScomments@SoundTransit.org

Re: West Seattle and Ballard Link Extensions Draft EIS Comments

On behalf the Port of Seattle (Port) and The Northwest Seaport Alliance (NWSA), thank you for the opportunity to provide comment on the Sound Transit West Seattle Ballard Link Extensions (WSBLE) Draft Environmental Impact Statement (DEIS). We appreciate Sound Transit's direct engagement with Port staff as a cooperating agency and with NWSA as a participating agency.

In 1911, the Port was authorized by the citizens of King County under Chapter 53 of the Revised Code of Washington to serve as a public port authority, charged with ensuring that Seattle's deep-water harbor is protected to serve as an economic engine for the region. Since 2015, NWSA is a marine cargo operating partnership of the Port of Seattle and Port of Tacoma – the fourth-largest container gateway in the United States. Under a port development authority, the NWSA manages the container, breakbulk, auto and some bulk terminals in Seattle and Tacoma. Together, the Port and NWSA operate and maintain the more than \$1 billion in investments made into maritime and industrial operations, and work to protect the tens of thousands of family-wage jobs and \$4.0 billion in revenue that these sectors generate for the region and state.

The Port and NWSA are assets of statewide significance, serving as critical gateways for international trade, agricultural producers, and manufacturers across Washington. These gateways cannot be replicated elsewhere and provide a crucial function in the resiliency of our state's economy. These facilities could be heavily impacted at the south and north ends of some of the proposed alignments. It is imperative that all efforts are made to avoid and/or mitigate adverse impacts to these crucial economic assets wherever possible. Further, our agencies depend on an ecosystem of supporting infrastructure, related businesses, and environmental conditions around us, hence impacting our neighbors might be just as problematic to our operations as our own facilities.

As stated in our letters, we have three primary objectives for Sound Transit 3 projects:

- A. Improve regional transportation for personal mobility, while protecting maritime and industrial land uses and freight mobility;
- B. Strengthen access to Port facilities, both existing and future developments; and
- C. Enhance service to Sea-Tac Airport for passengers and employees, from a web of cities throughout the region.

Those three objectives guided our staff during their review of the DEIS. Additionally, staff evaluated our previous comments from the scoping periods in 2018 and 2019, and the Sound Transit proposed refinements shared publicly in April 2022 that could affect Port facilities.

Please review attached staff letter and supplemental technical comment spreadsheet for full detail on our DEIS comments. This draft focuses on key issues for the NWSA and Port, as well as some additional Port-specific issues.

Potential Impact to Port/NWSA Facilities

Duwamish Segment

We remain highly concerned about construction and operational impacts to Port of Seattle and NWSA facilities. Spokane Street Corridor alignments could pose significant economic, environmental, and operational impacts not only to Port and NWSA facilities, but to maritime industrial businesses that must have waterfront access to survive. Proposed alignments must ensure those Port and NWSA facilities remain fully operational during and after construction, while ensuring access for trucks and rail serving those facilities. The BNSF West Waterway Bridge is particularly important for connecting Terminal 5 to the mainline and keeping hundreds of trucks per day off local roads. The proposed mitigation measures must be improved to ameliorate the impacts on dislocated water-dependent and industrial businesses and dislocated maritime and industrial workers to the maximum extent feasible.

Potential Impact to Maritime and Industrial Sectors

The DEIS acknowledges that construction and operation of the WSBLE will impact, and potentially displace, maritime and industrial businesses. We urge Sound Transit in the FEIS to examine the potential to relocate or to describe the potential effects more clearly. Further, it is not sufficiently clear whether the impacts to freight mobility in the Duwamish and SODO areas can be mitigated or whether they have potential to impact business operations to a non-operational effect. We are concerned that, without potential to find new sites for these businesses, the level of proposed mitigation is inadequate to address displaced businesses, or those whose access is limited. This is particularly true for maritime and industrial businesses which require access to water and/or to related, supporting industries.

The Port also wanted to raise some additional concerns:

Potential Impact to Port Facilities

Ballard/Interbay and South Interbay Segments

The Port of Seattle is also concerned about the Ballard Link Extension and potential impacts to Terminal 91 (T91) and Fishermen's Terminal and/or access to these sites, along freight arterials and from the ship canal for marine vessel access. Even closures less than the one-year threshold in the DEIS, which could impact a season of fishing or cruise activity, put at risk a whole year's value.

Environmental Justice

The WSBLE project is a generational opportunity to improve equitable, transit-oriented development and mobility throughout the region. As stated in Objective 3 above, we support ST3 as it improves regional transportation for personal and workforce mobility, while protecting maritime and industrial land uses and freight mobility. However, it is important that new investments in transportation infrastructure avoid disproportionate effects on already marginalized communities and are delivered in ways that account for historic discriminatory under-investments and prioritize benefits to marginalized communities – in particular, Black, Indigenous, and People of Color (BIPOC) communities and low-income communities, and immigrant and refugee communities. On a broader scale, this would include the livelihood of the many immigrant and 1st generation truck drivers serving Port/NWSA facilities. In addition, the Port asks FTA and the ST Board to take a hard look at the impacts of the 4th and 5th Avenue alignments through the Chinatown/International District neighborhood, identify mitigation measures (which may include avoidance) to limit impacts to the neighborhood, to engage impacted communities to identify mitigation measures in the decision, and to select as its preferred alternative an alignment that balances these impacts.”

We understand Sound Transit is developing the biggest infrastructure project in the City’s history, which brings both transformative opportunity and significant impacts. We look forward to continuing our work with Sound Transit toward a system expansion that complements the Port and NWSA ongoing economic development work for the region.

Thank you again for the opportunity to comment on the DEIS. We appreciate your work with us to date as a cooperating agency and look forward to continuing to work with you on this project.

Sincerely,



Stephen P. Metruck
Executive Director
Port of Seattle



John Wolfe
Chief Executive Officer
The Northwest Seaport Alliance

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APPENDIX A

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April 28, 2022

WSBLE Draft EIS Comments c/o Lauren Swift
Sound Transit
401 S Jackson St
Seattle WA 98104

Via email: WSBLEDEIScomments@SoundTransit.org

Re: West Seattle and Ballard Link Extensions Draft EIS Comments, staff letter

On behalf the Port of Seattle (Port) and Northwest Seaport Alliance (NWSA), thank you for the opportunity to provide comment on the Sound Transit West Seattle Ballard Link Extensions (WSBLE) Draft Environmental Impact Statement (DEIS). We appreciate Sound Transit's direct engagement with Port of Seattle (Port) staff as a cooperating agency and with the NWSA as a participating agency.

The Port and NWSA operate and maintain the more than \$1 billion in investments made in infrastructure for maritime and industrial operations, and work to grow and protect the tens of thousands of family-wage jobs and \$4 billion in revenue that these sectors generate for the region and state. This includes the minority truck drivers serving our Seattle container terminals and Eastern Washington agricultural workers producing exports that move through our terminals, like apples and potatoes. The Port and NWSA are assets of statewide significance, serving as critical gateways for international trade, agricultural producers and manufacturers across Washington. The NWSA is the fifth-largest container gateway in North America and provides a crucial function in the resiliency of our state's economy, its container terminals in the Duwamish cannot be replicated elsewhere. These facilities could be heavily impacted at the south and north ends of some of the proposed alignments. It is imperative that all efforts are made to avoid and mitigate adverse impacts to these crucial economic assets wherever possible. Further, our agencies depend on an ecosystem of supporting infrastructure and related businesses and the natural deep water facilitating access to our terminals.

As stated in our scoping letter, we have three primary objectives for Sound Transit 3 projects:

- A. Improve regional transportation for personal mobility, while protecting maritime and industrial land uses and freight mobility;
- B. Strengthen access to Port and NWSA facilities for all modes of freight and for people, both existing and future developments; and
- C. Enhance service to Seattle-Tacoma International Airport (SEA) for passengers and employees, from a web of cities throughout the region.

Those three objectives guided our staff during their review of the DEIS. Additionally, staff evaluated our previous comments from the scoping periods in 2018 and 2019, and Sound Transit proposed refinements shared publicly in April 2022 that could affect Port facilities.

Overall, the Port and NWSA raise six high level comments concerning:

1. Potential impact to Port and NWSA facilities
 - a. Duwamish Segment
 - b. Interbay/Ballard and South Interbay Segments
2. Potential impacts to the maritime industrial sector
3. Environmental justice
4. Minimum Operable Segments
5. SEA Airport Light Rail Access
6. Interbay potential refinement concept

The remainder of this letter provides additional context to the six subjects listed above. The Port's and NWSA's supplemental technical comments can be found in the attached spreadsheet.

1. Potential Impact to Port and NWSA Facilities

Duwamish Segment

The Port and NWSA remain concerned about construction and operational impacts to Port and NWSA facilities. Spokane Street Corridor alignments could pose significant economic, environmental, and operational impacts not only to Port and NWSA facilities, but to maritime industrial businesses that must have waterfront access to survive and who may be dependent on the freight rail facilities in the corridor. This applies to both construction and permanent conditions. Proposed alignments must ensure those facilities remain fully operational during and after construction, while ensuring access for trucks and trains serving those facilities.

Specifically, as depicted in the DEIS, the Duwamish Crossing segment may impact several Port and NWSA facilities including Terminal 18 (T18), Terminal 25 (T25), Harbor Island Marina and Corporate Center [Terminal 102 (T102)], industrial or warehousing sites at Terminals 103 and 104 (T103 and T104), and access to Terminal 5 (T5). We also share an interest in any operational impacts to our partners' facilities of the BNSF railroad tracks connecting throughout the harbor and the Jim Clark Marina on Harbor Island.

Sound Transit staff has worked closely with Port and NWSA staff to better understand and work toward addressing concerns about issues that may arise near port terminals both during construction and during link light rail operations. Despite this active collaboration, some proposed routes, especially DUW-2, north of the Spokane Street corridor, and to a lesser extent the preferred alternative (DUW-1a) and its option (DUW-1b), have the potential to create significant negative impacts on cargo operations and water-dependent logistic functions, with resulting negative economic effects across several industries, far beyond the Seattle harbor and King County.

Particularly problematic are the expected impacts during the estimated five-year construction period which could damage international container cargo operations and significantly contribute to truck and other traffic in the already congested Spokane St corridor. We remain unconvinced that the potential negative impacts, especially with a route north of the Spokane St corridor (DUW-2), could be mitigated for the Port, the NWSA, and other maritime/industrial businesses. From our perspective, this is not sufficiently covered by the current approach to measuring the economic impacts of the project, yet it is essential to ensuring the continued economic viability of these businesses.

We are particularly concerned about the Duwamish segment alternative DUW-2 on the north side of Spokane St between the proposed SODO Station and Delridge Station because of the impacts to T18 (both the container terminal and the Westway Feed operations), T25 and the access to T5.

In addition, the DEIS notes potential negative impacts on the eastern access on Harbor Island to the BNSF West Waterway rail bridge due to the location of a bridge piling. Continuous operation and access of this BNSF railway to the Terminal 5 on-dock rail yard is critical to the functionality of Terminal 5 which cannot be compromised. Long-term rail rehabilitation, replacement or capacity for expansion is imperative as well. We suggest the Final EIS must address how operational and long-term impacts to maritime cargo operations on and near international terminals in the Duwamish Segment are avoided.

The information in the DEIS regarding impacts of Duwamish Segment alternatives indicates that there are no feasible and prudent alternatives that avoid use of all existing and planned parks, wildlife areas and historic/cultural resources subject to section 4(f). To provide additional support for the draft section 4(f) determinations, we suggest that the Final EIS and 4(f) address the following in its analysis of the Duwamish Segment:

- a. Information on the context and intensity of the impacts of the Preferred South Alternative DUW-1a on all of the activities, functions, and attributes of the Duwamish Greenbelt. We agree with the DEIS that impacts of the Preferred Alternative on the Greenbelt are limited and localized and support the proposed finding that the impacts of the Preferred Alternative DUW-1a qualify as *de minimis*. To provide additional support for this determination, we suggest that the final EIS analyze the limited impacts of DUW-1a in the context of the overall activities, functions and attributes of the entire Duwamish Greenbelt, and the mitigation of the impacts of DUW-1a.
- b. Information regarding mitigation measures to further reduce the impacts of the Alt. DUW-1a on the Greenbelt, an evaluation of other factors identified in 23 C.F.R. § 774.3(c)(1) (particularly the comparative costs of the alternatives in the Duwamish Segment, as per 23 C.F.R. § 774.3(c)(1)(vii)).
- c. Cost and other information to determine whether the North Alternative is “prudent” under the section 4(f) regulations. 23 C.F.R. § 774.17. “Prudent” is defined in the regulations to require consideration of social and economic costs, and the comparative construction, maintenance, and operational costs of alternatives. As noted in our more detailed comments, the DEIS does not fully capture the effect and impacts to regional trade and logistics from construction at T18 and access to T5.

With respect to T25, we also want to provide additional information regarding WSBLE’s impacts to the Port’s planned establishment of a nine-acre wildlife habitat area that is identified in Strategy 4 of the Port’s approved Long Range Plan. The wildlife habitat portion of the planned T25 restoration and redevelopment project will

include removing approximately 950 creosote piles, debris, fill, and riprap; excavating to intertidal and subtidal elevations; and installing anchored large woody debris to support intertidal marsh and riparian buffer plantings. It will re-establish approximately nine acres of riparian, emergent marsh, mudflat, and subtidal habitat and provide off-channel fish habitat that is critical to supporting salmon and orca recovery efforts. The habitat project is reflected in the Port's Mitigation Bank Prospectus, which has recently gone through a public comment process led by USACE and Ecology. Design authorization for the habitat restoration project was approved by the Port Commission in February 2022.

The Port requests that the final EIS include more information on the North Alternative's impacts on the Port's planned wildlife habitat restoration site at T25 as well as other planned redevelopment. For instance, clarifying the area of impact (square footage or acreage) within the redevelopment area, including the wildlife habitat site, which would be occupied by Sound Transit infrastructure. Can Sound Transit share any estimates for how much additional acreage would be shaded or displaced by bridge piers, as this could reduce the acreage available to habitat restoration and other planned redevelopment? In addition, we hope that Sound Transit can provide more detail on construction impacts to the site and how many acres would be needed for construction purposes. If Sound Transit chooses to proceed with the North Alternative and it impacts too much of the site, the Port will be precluded from pursuing this redevelopment, including the ~9-acre wildlife habitat restoration project, altogether. Similarly, even shorter-term construction needs may have significant impacts in terms of lost service years of habitat value that should be weighed. The economic impact of losing the ability to restore the site for the Port's mitigation bank should be analyzed as environmental and economic impacts in the 4(f) evaluation of whether the North Alternative is a prudent alternative. We ask that the impacts analysis in the ecosystems section disclose that the North Alternative could eliminate the planned redevelopment and habitat restoration effort which is intended to support the recovery of Chinook salmon and Southern Resident Killer Whales. The T25 wildlife habitat site should continue to be evaluated as a property subject to section 4(f).

To aid this evaluation, we have included additional documents related to the T25 habitat restoration project to inform both the 4(f) and NEPA analyses.

1. The Port's Long Range Plan. On PDF p. 28 (Strategy 4, Objective 17, Priority Action 2) you will find text designating T25 as a habitat restoration site. [The Port Commission adopted this plan on April 26, 2018.]
2. Port map of parks and habitat restoration sites. This map reflects the location of Port properties maintained as parks or habitat sites and includes the wildlife habitat restoration at T25.
3. Letter from the National Oceanic and Atmospheric Administration (NOAA) on behalf of the Elliott Bay Natural Resource Trustee Council confirming the ecological value of the T25 wildlife habitat restoration project at 667 discounted service acre years (DSAYs). The Trustee Council and the Port have agreed to work together toward the goal of establishing this project and intend for it to be included as a component of a future natural resource damages (NRD) settlement. The ultimate outcome of this habitat restoration project will be a restrictive covenant conveyed by the Port to the Washington Department of Ecology on behalf of itself, federal resource agencies and tribes.
4. In February 2022, the Port Commission took a significant step toward building the wildlife habitat restoration project at Terminal 25. Commissioners authorized design of the wildlife habitat

restoration project and cleanup of contamination at the site (a necessary precursor to habitat construction) under an agreement with the EPA for the nine-acre site just north of Spokane St.

In addition to impacts to the T25 wildlife habitat site, WSBLE may also affect or preclude additional development on T25S, to the east of the habitat site, proposes parking improvements which will include pavement, drainage and other improvements needed for redevelopment of approximately 3 acres, a portion of the overall 10 acres under consideration to support drayage truck parking and chassis storage. These parking improvements immediately adjacent will provide approximately 150 overnight parking spaces, out of the estimated 500 total for the larger acreage, to the (largely immigrant) drayage truck community, in support of the Ports' drayage business continuing to alleviate trucks being parked in the right of way in nearby Georgetown and South Park neighborhoods.

We would also like to call Sound Transit's attention to the site-specific impacts of the Duwamish Crossing alternatives. The access to T5 is affected by construction of columns, or piers, of the elevated structure of northern alignment alternative (DUW-2). We do not see sufficient information to understand effects of closures of the Chelan Avenue SW lanes connecting with SW Spokane St and W Marginal Way SW. The length of time and number of lanes must be studied considering future volumes at T5 to understand impacts on operations of the 5-leg intersection. The Chelan Avenue SW/SW Spokane St/W Marginal Way SW is a critical intersection for the Port and the NWSA. We will work with you to understand effects, minimize impacts, and assess feasible mitigation.

Impacts of either DUW-1 (a or b) to the Harbor Island Corporate Center, Harbor Island Marina (T102), and the Jim Clark Marina, both during construction and operations, are not sufficiently clear. Our technical comments identify several areas where we are not aware of alternative moorage for affected operations to relocate, for recreational and commercial users of the Harbor Island Marina, as well as other moorages on the Duwamish. Please identify mitigation of this impact in the FEIS.

As stated in previous comment letters, the WSBLE project has the potential to create significant negative impacts on international cargo operations and regional maritime and industrial business, and to add congestion to the already burdened SW Spokane Street corridor. Sections 4.2.1.7 and 4.2.1.8 acknowledge that "some water-dependent facilities may not be able to be relocated." The proposed mitigation measures must be improved to ameliorate the impacts on dislocated water-dependent and industrial businesses and dislocated maritime and industrial workers to the maximum extent feasible. We recommend that in the FEIS, Sound Transit further evaluate the Duwamish Segment to more accurately gauge construction-related, transportation, and regional economic impacts to the area.

Ballard/Interbay and South Interbay Segments

The Port of Seattle is also concerned about the Ballard Link Extension and potential impacts to Terminal 91 (T91) and Fishermen's Terminal and/or access to these sites. It is important that any alignment maintain access to both T91 and Fishermen's Terminal, although the DEIS discloses impacts to Elliott Avenue W, 15th Avenue W, W Galer St Flyover, W Dravus St and W Emerson St (especially during construction), as well as permanent impacts on the waterside from the shipping channel into the moorage area. Even closures less than the 9-month threshold in the DEIS, which could impact a season of fishing or cruise activity, put at risk a whole year's value. Alternative access to T91 would be required if the W Galer St Flyover is closed, as it is the only access point to T91.

At T91, the two-berth Smith Cove cruise terminal serves approximately two-thirds of Seattle's cruise passengers from April/May through September/October. During Fall, Winter and Spring seasons, the fishing industry operations predominantly operate at T91, on a schedule complementary to cruise operations. Each of these uses have operations with significant contributions to the regional economy and require that freight, crew and/or passengers maintain good access to/from T-91. The DEIS references 4,000 passengers per ship but should more clearly call out that 4,000 passengers disembark/embark for each homeport ship and many days both berths are occupied for a total of 16,000 passengers moving through the terminal. (Please see comment Section 5 for discussion of potential refinements in Interbay.)

Additionally, at T91, the Port plans to construct two 50,000 square foot light industrial buildings to support maritime manufacturers and fishing industry suppliers in the Ballard Interbay Manufacturing Industrial Center (BINMIC); the Port may potentially develop an additional 400,000 square feet of light industrial space at T91 as part of a Major Phased Development permit with the City of Seattle.

In Interbay/Ballard, Alternative IBB-3 crosses over Fishermen's Terminal and its moorage. The Port is partnering with Washington Maritime Blue to renovate the Seattle Ship Supply building into the Maritime Innovation Center and incubate the next generation of maritime industry. This proposed development, combined with the Port of Seattle's longtime support of the North Pacific Fishing Fleet at Fishermen's Terminal, make access critically important to the facility. In fact, Fishermen's Terminal is home to approximately 300 fishing vessels who rely on the surrounding network of suppliers and trades. The Port cannot support (IBB-3) because of impacts to Fishermen's Terminal and the variety of operations on the site, the impacts to the regional economy due to impacts on seasonal-provisioning homeport activities and the impacts to maritime and landside access.

Navigational access to critical maritime and industrial activities within Ballard industrial areas must be a core consideration. The two bridge alternatives (IBB-1a and IBB-3) and associated construction activities could affect a wide range of cargo, fishing and other industrial operations, hamper freight movement and ultimately result in a loss of jobs in our community. The maritime industry relies on a broad ecosystem of support businesses and supply chain links, hence no one business impact can be considered in isolation. These businesses are vital to the economic vitality of the region and state.

Further, the construction impacts along Elliott and 15th Avenues W corridor make the Elevated 15th Avenue (IBB-3) and the Elevated 14th Ave Alignment Option (IBB-1b) untenable.

2. Potential Impact to Maritime Industrial Sector

The DEIS acknowledges that construction and operation of the WSBLE will impact, and potentially displace, maritime and industrial businesses. We urge Sound Transit in the FEIS to examine the potential to relocate and to describe the potential effects more clearly. Further, it is not sufficiently clear whether the impacts to freight mobility, including rail, in the Duwamish and SODO areas can be mitigated or whether they have potential to impact business operations to a non-operational effect. The Port is concerned that, without potential to find new sites for these businesses, the level of proposed mitigation is inadequate to address displaced businesses, or those whose access is limited. This is particularly true for maritime and industrial businesses which require access to water and/or to related, supporting industries. We recommend that in the final EIS, Sound Transit

further evaluate the Duwamish and Interbay/Ballard Segments to more accurately gauge all impacts to the maritime/industrial economic sector and consider mitigation to minimize impacts.

In the Final EIS, the following regional priorities should be recognized and supported for our industrial sector and associated lands.

- “The region contains manufacturing/industrial centers. These are existing employment areas with intensive, concentrated manufacturing and industrial land uses that cannot be easily mixed with other activities. Manufacturing/ industrial centers are intended to continue to accommodate a significant amount of regional employment. (Puget Sound Regional Council, Vision 2050 pg. 25)
- “These centers can also generate substantial revenue for local governments, depending on the types of industrial land uses. To preserve existing centers of intensive manufacturing and industrial activity, the region should provide necessary infrastructure and services and restrict incompatible land uses in these areas.” (Puget Sound Regional Council, Vision 2050 pg. 68)
- “Industrial lands, military installations, airports, seaports, and other maritime sites are assets that make significant contributions to the overall economy. Proximity to Pacific Rim countries, deep water ports, major transportation corridors, and low-cost energy are among the unique regional assets supporting these lands. VISION 2050 calls for the protection and preservation of these lands from incompatible use and encroachment.” (Puget Sound Regional Council, Vision 2050 pg. 94)

3. Environmental Justice

The Port acknowledges the need of the EIS to evaluate different impacts with respect to the Chinatown/ID segment, including potentially disproportionately high and adverse impacts to Environmental Justice (EJ) communities. We recognize the potential impacts to freight mobility of the 4th Avenue alternatives but also the potentially more significant impacts to EJ communities from the 5th Avenue alternatives. The Port asks FTA and the ST Board to take a hard look at each of these impacts in the EIS, identify mitigation measures (which may include avoidance) to limits impacts to the Chinatown/International District neighborhood, and select as its preferred alternative an alignment that balances these impacts.

As noted in our detailed comments, we suggest that the analysis of EJ impacts in the Chinatown-International District (CID) provide additional documentation regarding the extent of the identified impacts of the CID alternatives on EJ communities, including the potential that the alternatives will impact housing affordability.

We further suggest that the final EIS consider potential impacts on the jobs of the approximately 4,000 truck drivers serving NWSA facilities, who are often recent immigrants or first-generation Americans. Responses to a 2017 truck driver survey show that almost 40% of the drivers serving our facilities do not speak English as first language. Two thirds of these drivers are people of color, representing the African, Asian or Pacific Islander, Hispanic or Latino/Latina and Middle Eastern ethnic groups.

Finally, the DEIS evaluates a study area of a half-mile radius along the proposed corridor. We suggest that the final EIS consider the potential for EJ impacts beyond the study area.

4. Minimum Operable Segments

The DEIS identifies the Smith Cove station as a Minimum Operable Segments (MOS) terminus. Please define what additional facilities are needed to enable an MOS terminus. Please, especially include bus volumes and additionally volumes of pedestrian transfers between bus stops and light rail if not within the station. (GHP – review how tech detail is provided).

In addition, we recommend that the FEIS should also consider Interbay for this interim terminus. By extending the system one station farther, there would be a relative reduction of traffic from the north accessing the terminus station during the period until the extension reaches the Ballard station.

5. Seattle-Tacoma International Airport (SEA) Light Rail Access

The Draft EIS discusses the Project Need and points to several regional employment centers on this corridor, as well as regional light rail connections to other large education and employment centers. The Port of Seattle, operating the international airport for the greater Pacific Northwest region encourages Sound Transit to also highlight connections with SEA Airport, for travelers, employees and or visitors. Through our Century Agenda, the Port is committed to reduce indirect (Scope 3) greenhouse gas emissions 50% by 2030 and reach carbon neutrality by 2050 among other ground transportation goals. Ridership of light rail for trips to and from SEA Airport is a key tool in that effort. We encourage that the FEIS acknowledge the on-going work among Sound Transit, Port and other agency representatives to serve increasing levels of ridership. As part of the WSBLE implementation, this could include service connecting West Seattle’s light rail extension with the Burien Transit Center and then to SEA Airport. Ensuring that fast and reliable connections are provided between the new Link Stations and the airport will enhance the system for many users.

6. Interbay Potential Refinement concept

On April 12, 2022, Sound Transit staff presented the “Consolidate Smith Cove and Interbay stations” potential refinement concept to the Port Commission. We understand this is an initial assessment of feasibility with limited engineering design. It sits on Port-owned property referenced as the former Tsubota Steel site.

As contributing members in the City’s Maritime and Industrial Lands Strategy process, we have been a consistent voice for strengthening existing protections against incompatible land uses and development in the Manufacturing and Industrial Centers (MICs) of Seattle. Where Sound Transit’s slide also called out that it would directly serve the “Armory site and areas with substantial development potential”, we underscore the need for our agencies to work together to identify a clear vision for what development around Link Light Rail stations within the city’s MICs will look like, and how they will support industry. While this is of critical importance in an underdeveloped area here, it applies as well to the SODO, Smith Cove, Interbay and Ballard stations adjacent or within industrial areas.

We appreciate the perceived benefits of “avoiding traffic effects on Elliott” and “avoiding railroad and Interbay properties.” However, we are cautious about loss of station access for the local communities. We believe it warrants further study to understand whether it can reduce risk or provide opportunities.

We understand Sound Transit is developing the biggest infrastructure project in the City's history, which brings both transformative opportunity and significant impacts. We look forward to continuing our work with Sound Transit toward a system expansion that complements the Port and NWSA ongoing economic development work for the region.

Thank you again for the opportunity to comment on the ADEIS. We appreciate your work with us to date as a cooperating agency and look forward to continuing to work with you on this project.

Sincerely,

A handwritten signature in cursive script that reads "Geraldine H. Poor". The signature is written in black ink and includes a long horizontal flourish at the end.

Geraldine H. Poor, Port/NWSA Designated Representative

Attachment A – POS_NWSA_excel spreadsheet 04.28.2022

Attachment B – ST3 Smith Cove walkshed email Nov 10_2020

Attachment C – POS Letter to USCG re Preliminary Navigation Clearance Determination (PNCD), 10.15.2021

Attachment D1 – 2022_02_08_RM_10c_Comm Approval Design Funds

Attachment D2 – LDR T25 Port of Seattle Certification Letter 9.7.21 EXECUTED

Attachment D3 - Port of Seattle Habitat Restoration and Parks-Public Shoreline Access Sites – 2021-9-16

Attachment D4 – POS_2017_LongRangePlan_Web_Commission_4-26-18

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 503303 - Port of Seattle and Northwest Seaport Alliance Draft EIS Comment

#	Comments	Responses
1	<p>The Port and NWSA are assets of statewide significance, serving as critical gateways for international trade, agricultural producers, and manufacturers across Washington. These gateways cannot be replicated elsewhere and provide a crucial function in the resiliency of our state's economy. These facilities could be heavily impacted at the south and north ends of some of the proposed alignments. It is imperative that all efforts are made to avoid and/or mitigate adverse impacts to these crucial economic assets wherever possible. Further, our agencies depend on an ecosystem of supporting infrastructure, related businesses, and environmental conditions around us, hence impacting our neighbors might be just as problematic to our operations as our own facilities.</p>	<p>Comment noted. Section 4.2.3, Economics, of the WSBLE Draft EIS and Section 4.3, Economics, of the West Seattle Link Extension Final EIS acknowledge the importance of the Port of Seattle and Northwest Seaport Alliance in the regional economy. Please see Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access, and Section 4.3, Economics, of the Final EIS for more information on impacts to freight and economics. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
2	<p>Please see responses to CC4.1d and CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access, of the Final EIS for more information on impacts related to the movement of freight that could affect Port and Northwest Seaport Alliance facilities. Additional information on impacts to water dependent businesses for Preferred Alternative DUW-1a has been added to Section 4.3, Economics of the Final EIS. Please see Section 6.5, Significant and Unavoidable Adverse Impacts, of the Final EIS</p>	<p>Please see responses to CC4.1d and CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access, of the Final EIS for more information on impacts related to the movement of freight that could affect Port and Northwest Seaport Alliance facilities. Additional information on impacts to water dependent businesses for Preferred Alternative DUW-1a has been added to Section 4.3, Economics of the Final EIS. Please see Section 6.5, Significant and Unavoidable Adverse Impacts, of the Final EIS.</p>
3	<p>The DEIS acknowledges that construction and operation of the WSBLE will impact, and potentially displace, maritime and industrial businesses. We urge Sound Transit in the FEIS to examine the potential to relocate or to describe the potential effects more clearly. Further, it is not sufficiently clear whether the impacts to freight mobility in the Duwamish and SODO areas can be mitigated or whether they have potential to impact business operations to a non-operational effect. We are concerned that, without potential to find new sites for these businesses, the level of proposed mitigation is inadequate to address displaced businesses, or those whose access is limited. This is particularly true for maritime and industrial businesses which require access to water and/or to related, supporting industries.</p>	<p>See response to Comment 2 above. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	Ballard/Interbay and South Interbay Segments The Port of Seattle is also concerned about the Ballard Link Extension and potential impacts to Terminal 91 (T91) and Fishermen's Terminal and/or access to these sites, along freight arterials and from the ship canal for marine vessel access. Even closures less than the one-year threshold in the DEIS, which could impact a season of fishing or cruise activity, put at risk a whole year's value.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
5	it is important that new investments in transportation infrastructure avoid disproportionate effects on already marginalized communities and are delivered in ways that account for historic discriminatory under-investments and prioritize benefits to marginalized communities - in particular, Black, Indigenous, and People of Color (BIPOC) communities and low-income communities, and immigrant and refugee communities. On a broader scale, this would include the livelihood of the many immigrant and 1st generation truck drivers serving Port/NWSA facilities. In addition, the Port asks FTA and the ST Board to take a hard look at the impacts of the 4th and 5th Avenue alignments through the Chinatown/International District neighborhood, identify mitigation measures (which may include avoidance) to limits impacts to the neighborhood, to engage impacted communities to identify mitigation measures in the decision, and to select as its preferred alternative an alignment that balances these impacts."	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
6	The Port and NWSA remain concerned about construction and operational impacts to Port and NWSA facilities. Spokane Street Corridor alignments could pose significant economic, environmental, and operational impacts not only to Port and NWSA facilities, but to maritime industrial businesses that must have waterfront access to survive and who may be dependent on the freight rail facilities in the corridor. This applies to both construction and permanent conditions. Proposed alignments must ensure those facilities remain fully operational during and after construction, while ensuring access for trucks and trains serving those facilities. Specifically, as depicted in the DEIS, the Duwamish Crossing segment may impact several Port and NWSA facilities including Terminal 18 (T18), Terminal 25 (T25), Harbor Island Marina and Corporate Center [Terminal 102 (T102)], industrial or warehousing sites at Terminals 103 and 104 (T103 and T104), and access to Terminal 5 (T5). We also share an interest in any operational impacts to our partners' facilities of the BNSF railroad tracks connecting throughout the harbor and the Jim Clark Marina on Harbor Island.	See response to comment 2 above.

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
7	<p>Despite this active collaboration, some proposed routes, especially DUW-2, north of the Spokane Street corridor, and to a lesser extent the preferred alternative (DUW-1a) and its option (DUW-1b), have the potential to create significant negative impacts on cargo operations and water-dependent logistic functions, with resulting negative economic effects across several industries, far beyond the Seattle harbor and King County. Particularly problematic are the expected impacts during the estimated five-year construction period which could damage international container cargo operations and significantly contribute to truck and other traffic in the already congested Spokane St corridor. We remain unconvinced that the potential negative impacts, especially with a route north of the Spokane St corridor (DUW-2), could be mitigated for the Port, the NWSA, and other maritime/industrial businesses. From our perspective, this is not sufficiently covered by the current approach to measuring the economic impacts of the project, yet it is essential to ensuring the continued economic viability of these businesses. We are particularly concerned about the Duwamish segment alternative DUW-2 on the north side of Spokane St between the proposed SODO Station and Delridge Station because of the impacts to T18 (both the container terminal and the Westway Feed operations), T25 and the access to TS.</p>	<p>Please see responses to CCG1 and CCG2 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Additional information about impacts to freight during construction has been added to Section 9, Freight Mobility and Access, of Appendix N.1, Transportation Technical Report, of the Final EIS. Also see response to Comment 2 above.</p>
8	<p>In addition, the DEIS notes potential negative impacts on the eastern access on Harbor Island to the BNSF West Waterway rail bridge due to the location of a bridge piling. Continuous operation and access of this BNSF railway to the Terminal 5 on-dock rail yard is critical to the functionality of Terminal 5 which cannot be compromised. Long-term rail rehabilitation, replacement or capacity for expansion is imperative as well. We suggest the Final EIS must address how operational and long-term impacts to maritime cargo operations on and near international terminals in the Duwamish Segment are avoided.</p>	<p>The bridge support column for Preferred Alternative DUW-1a that was near the BNSF rail bridge and railway near the West Waterway in the WSBLE Draft EIS has been moved out of the Duwamish Waterway to a location on Harbor Island, which reduces potential impact to the BNSF rail bridge. Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access and Section 3.11, Construction Impacts, of the Final EIS have been updated for this discussion of potential rail-related impacts.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
9	<p>The information in the DEIS regarding impacts of Duwamish Segment alternatives indicates that there are no feasible and prudent alternatives that avoid use of all existing and planned parks, wildlife areas and historic/cultural resources subject to section 4(f). To provide additional support for the draft section 4(f) determinations, we suggest that the Final EIS and 4(f) address the following in its analysis of the Duwamish Segment:</p> <p>a. Information on the context and intensity of the impacts of the Preferred South Alternative DUW-1a on all of the activities, functions, and attributes of the Duwamish Greenbelt. We agree with the DEIS that impacts of the Preferred Alternative on the Greenbelt are limited and localized and support the proposed finding that the impacts of the Preferred Alternative DUW-1a qualify as de minimis. To provide additional support for this determination, we suggest that the final EIS analyze the limited impacts of DUW-1a in the context of the overall activities, functions and attributes of the entire Duwamish Greenbelt, and the mitigation of the impacts of DUW-1a.</p> <p>b. Information regarding mitigation measures to further reduce the impacts of the Alt. DUW-1a on the Greenbelt, an evaluation of other factors identified in 23 C.F.R. § 774.3(c)(1) (particularly the comparative costs of the alternatives in the Duwamish Segment, as per 23 C.F.R. § 774.3(c)(1)(vii)).</p> <p>c. Cost and other information to determine whether the North Alternative is "prudent" under the section 4(f) regulations. 23 C.F.R. § 774.17. "Prudent" is defined in the regulations to require consideration of social and economic costs, and the comparative construction, maintenance, and operational costs of alternatives. As noted in our more detailed comments, the DEIS does not fully capture the effect and impacts to regional trade and logistics from construction at T18 and access to T5.</p>	<p>Please see Appendix H, Section 4(f) Evaluation, of the Final EIS for an updated discussion of impacts to 4(f) resources for all alternatives, as well as proposed mitigation. The Least Harm Analysis, which has been added to Appendix H in the Final EIS, discusses impacts to water dependent businesses and the regional economy associated with Alternative DUW-2.</p>
10	<p>The Port requests that the final EIS include more information on the North Alternative's impacts on the Port's planned wildlife habitat restoration site at T25 as well as other planned redevelopment. For instance, clarifying the area of impact (square footage or acreage) within the redevelopment area, including the wildlife habitat site, which would be occupied by Sound Transit infrastructure. Can Sound Transit share any estimates for how much additional acreage would be shaded or displaced by bridge piers, as this could reduce the acreage available to habitat restoration and other planned redevelopment? In addition, we hope that Sound Transit can provide more detail on construction impacts to the site and how many acres would be needed for construction purposes. If Sound Transit chooses to proceed with the North Alternative and it impacts too much of the site, the Port will be precluded from pursuing this redevelopment, including the -9-acre wildlife habitat restoration project, altogether. Similarly, even shorter-term construction needs may have significant impacts in terms of lost service years of habitat value that should be weighed. The economic impact of losing the ability to restore the site for the Port's mitigation bank should be analyzed as environmental and economic impacts in the 4(f) evaluation of whether the North Alternative is a prudent alternative. We ask that the impacts analysis in the ecosystems section disclose that the North Alternative could eliminate the planned redevelopment and habitat restoration effort which is intended to support the recovery of Chinook salmon and Southern Resident Killer Whales. The T25 wildlife habitat site should continue to be evaluated as a property subject to section 4(f).</p>	<p>Additional information about impacts to the Terminal 25 habitat restoration site has been added to Appendix N.4, Ecosystems Technical Report. The Terminal 25 habitat restoration site has been added to Appendix H, Section 4(f) Evaluation, as a Section 4(f) resource, and impacts to it are discussed in Section 3 of Appendix H.</p>

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11	<p>SBLE may also affect or preclude additional development on T25S, to the east of the habitat site, proposes parking improvements which will include pavement, drainage and other improvements needed for redevelopment of approximately 3 acres, a portion of the overall 10 acres under consideration to support drayage truck parking and chassis storage. These parking improvements immediately adjacent will provide approximately 150 overnight parking spaces, out of the estimated 500 total for the larger acreage, to the (largely immigrant) drayage truck community, in support of the Ports' drayage business continuing to alleviate trucks being parked in the right of way in nearby Georgetown and South Park neighborhoods</p>	<p>More detail has been added to quantify potential on-street parking losses in the industrial area, which also serve trucks, to Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access, of the Final EIS. In addition, mitigation has been added for the temporary Alternative DUW-2 impact to truck parking at T-25 in Section 3.11.6, Mitigation for Construction Impacts.</p>
12	<p>The access to T5 is affected by construction of columns, or piers, of the elevated structure of northern alignment alternative (DUW-2). We do not see sufficient information to understand effects of closures of the Chelan Avenue SW lanes connecting with SW Spokane St and W Marginal Way SW. The length of time and number of lanes must be studied considering future volumes at T5 to understand impacts on operations of the 5- leg intersection. The Chelan Avenue SW/SW Spokane SUW Marginal Way SW is a critical intersection for the Port and the NWSA. We will work with you to understand effects, minimize impacts, and assess feasible mitigation.</p>	<p>Please see Section 3.11, Construction Impacts, of the Final EIS for a description impacts anticipated during construction of Alternative DUW-2. More detailed information is provided in Chapter 9, Freight Mobility and Access of Appendix N.1, Transportation Technical Report. Attachment N.1D, in Appendix N.1 provides additional information on temporary roadway closures during construction, including durations.</p>
13	<p>Impacts of either DUW-1 (a orb) to the Harbor Island Corporate Center, Harbor Island Marina (T102), and the Jim Clark Marina, both during construction and operations, are not sufficiently clear. Our technical comments identify several areas where we are not aware of alternative moorage for affected operations to relocate, for recreational and commercial users of the Harbor Island Marina, as well as other moorages on the Duwamish. Please identify mitigation of this impact in the FEIS.</p>	<p>Additional information on impacts to water dependent businesses, including replacement moorage, for Preferred Alternative DUW-1a has been added to Section 4.3, Economics of the Final EIS. Please see responses to CC4.1d and CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Section 6.5, Significant and Unavoidable Adverse Impacts, of the Final EIS. Please see Section 3.9, Affected Environment and Impacts During Operation - Navigation, of the Final EIS and Chapter 8, Navigation of appendix N.1, Transportation Technical report for information on impacts to moorage.</p>
14	<p>As stated in previous comment letters, the WSBLE project has the potential to create significant negative impacts on international cargo operations and regional maritime and industrial business, and to add congestion to the already burdened SW Spokane Street corridor. Sections 4.2.1.7 and 4.2.1.8 acknowledge that "some water-dependent facilities may not be able to be relocated." The proposed mitigation measures must be improved to ameliorate the impacts on dislocated water- dependent and industrial businesses and dislocated maritime and industrial workers to the maximum extent feasible. We recommend that in the FEIS, Sound Transit further evaluate the Duwamish Segment to more accurately gauge construction-related, transportation, and regional economic impacts to the area.</p>	<p>See response to comment 2 above.</p>

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15	<p>The Port of Seattle is also concerned about the Ballard Link Extension and potential impacts to Terminal 91 (T91) and Fishermen's Terminal and/or access to these sites. It is important that any alignment maintain access to both T91 and Fishermen's Terminal, although the DEIS discloses impacts to Elliott Avenue W, 15th Avenue W, W Galer St Flyover, W Dravus St and W Emerson St (especially during construction), as well as permanent impacts on the waterside from the shipping channel into the moorage area. Even closures less than the 9-month threshold in the DEIS, which could impact a season of fishing or cruise activity, put at risk a whole year's value. Alternative access to T91 would be required if the W Galer St Flyover is closed, as it is the only access point to T91.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
16	<p>The DEIS references 4,000 passengers per ship but should more clearly call out that 4,000 passengers disembark/embark for each homeport ship and many days both berths are occupied for a total of 16,000 passengers moving through the terminal. (Please see comment Section 5 for discussion of potential refinements in Interbay.)</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
17	<p>Additionally, at T91, the Port plans to construct two 50,000 square foot light industrial buildings to support maritime manufacturers and fishing industry suppliers in the Ballard Interbay Manufacturing Industrial Center (BINMIC); the Port may potentially develop an additional 400,000 square feet of light industrial space at T91 as part of a Major Phased Development permit with the City of Seattle.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
18	<p>In Interbay/Ballard, Alternative IBB-3 crosses over Fishermen's Terminal and its moorage. The Port is partnering with Washington Maritime Blue to renovate the Seattle Ship Supply building into the Maritime Innovation Center and incubate the next generation of maritime industry. This proposed development, combined with the Port of Seattle's longtime support of the North Pacific Fishing Fleet at Fishermen's Terminal, make access critically important to the facility. In fact, Fishermen's Terminal is home to approximately 300 fishing vessels who rely on the surrounding network of suppliers and trades. The Port cannot support (IBB-3) because of impacts to Fishermen's Terminal and the variety of operations on the site, the impacts to the regional economy due to impacts on seasonal-provisioning homeport activities and the impacts to maritime and landside access. Navigational access to critical maritime and industrial activities within Ballard industrial areas must be a core consideration. The two bridge alternatives (IBB-1a and IBB-3) and associated construction activities could affect a wide range of cargo, fishing and other industrial operations, hamper freight movement and ultimately result in a loss of jobs in our community. The maritime industry relies on a broad ecosystem of support businesses and supply chain links, hence no one business impact can be considered in isolation. These businesses are vital to the economic vitality of the region and state.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
19	<p>Further, the construction impacts along Elliott and 15th Avenues W corridor make the Elevated 15th Avenue (IBB- 3) and the Elevated 14th Ave Alignment Option (IBB-1b) untenable.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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20	<p>We urge Sound Transit in the FEIS to examine the potential to relocate and to describe the potential effects more clearly. Further, it is not sufficiently clear whether the impacts to freight mobility, including rail, in the Duwamish and SODO areas can be mitigated or whether they have potential to impact business operations to a non-operational effect. The Port is concerned that, without potential to find new sites for these businesses, the level of proposed mitigation is inadequate to address displaced businesses, or those whose access is limited. This is particularly true for maritime and industrial businesses which require access to water and/or to related, supporting industries. We recommend that in the final EIS, Sound Transit further evaluate the Duwamish and Interbay/Ballard Segments to more accurately gauge all impacts to the maritime/industrial economic sector and consider mitigation to minimize impacts.</p>	<p>Please see response to comments 2 and 5. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
21	<p>In the Final EIS, the following regional priorities should be recognized and supported for our industrial sector and associated lands. • "The region contains manufacturing/industrial centers. These are existing employment areas with intensive, concentrated manufacturing and industrial land uses that cannot be easily mixed with other activities. Manufacturing/ industrial centers are intended to continue to accommodate a significant amount of regional employment. (Puget Sound Regional Council, Vision 2050 pg. 25) • "These centers can also generate substantial revenue for local governments, depending on the types of industrial land uses. To preserve existing centers of intensive manufacturing and industrial activity, the region should provide necessary infrastructure and services and restrict incompatible land uses in these areas." (Puget Sound Regional Council, Vision 2050 pg. 68) • "Industrial lands, military installations, airports, seaports, and other maritime sites are assets that make significant contributions to the overall economy. Proximity to Pacific Rim countries, deep water ports, major transportation corridors, and low-cost energy are among the unique regional assets supporting these lands. VISION 2050 calls for the protection and preservation of these lands from incompatible use and encroachment." (Puget Sound Regional Council, Vision 2050 pg. 94)</p>	<p>Please see response to CC4.3d in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Section 4.2, Land Use, of the Final EIS for discussion of conversion of industrial lands to transportation uses. Information on the City of Seattle's Industrial and Maritime Strategy, which was adopted in July 2023 and is intended to protect industrial and maritime land uses, has been added to this section of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided in the Ballard Link Extension Final EIS.</p>
22	<p>The Port acknowledges the need of the EIS to evaluate different impacts with respect to the Chinatown/ID segment, including potentially disproportionately high and adverse impacts to Environmental Justice (EJ) communities. We recognize the potential impacts to freight mobility of the 4th Avenue alternatives but also the potentially more significant impacts to EJ communities from the 5th Avenue alternatives. The Port asks FTA and the ST Board to take a hard look at each of these impacts in the EIS, identify mitigation measures (which may include avoidance) to limit impacts to the Chinatown/International District neighborhood, and select as its preferred alternative an alignment that balances these impacts. As noted in our detailed comments, we suggest that the analysis of EJ impacts in the Chinatown-International District (CID) provide additional documentation regarding the extent of the identified impacts of the CID alternatives on EJ communities, including the potential that the alternatives will impact housing affordability.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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23	<p>We further suggest that the final EIS consider potential impacts on the jobs of the approximately 4,000 truck drivers serving NWSA facilities, who are often recent immigrants or first-generation Americans. Responses to a 2017 truck driver survey show that almost 40% of the drivers serving our facilities do not speak English as first language. Two thirds of these drivers are people of color, representing the African, Asian or Pacific Islander, Hispanic or Latino/Latina and Middle Eastern ethnic groups.</p>	<p>Mitigation has been added to Chapter 9, Freight Mobility and Access, of the Final EIS to address potential impacts to Port access and dray routes. This mitigation would apply to all truck drivers serving Northwest Seaport Alliance facilities.</p>
24	<p>Finally, the DEIS evaluates a study area of a half-mile radius along the proposed corridor. We suggest that the final EIS consider the potential for EJ impacts beyond the study area.</p>	<p>Please see Appendix G, Environmental Justice, of the Final EIS for more information on why a 0.5-mile study area was used for the analysis. Appendix G also describes that the environmental justice analysis considered the potential for benefits and impacts to minority and/or low-income populations in areas outside of the study area because their transit options and access could be indirectly affected by the project.</p>
25	<p>The DEIS identifies the Smith Cove station as a Minimum Operable Segments (MOS) terminus. Please define what additional facilities are needed to enable an MOS terminus. Please, especially include bus volumes and additionally volumes of pedestrian transfers between bus stops and light rail if not within the station. (GHP - review how tech detail is provided). In addition, we recommend that the FEIS should also consider Interbay for this interim terminus. By extending the system one station farther, there would be a relative reduction of traffic from the north accessing the terminus station during the period until the extension reaches the Ballard station.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
26	<p>Seattle-Tacoma International Airport (SEA) Light Rail Access The Draft EIS discusses the Project Need and points to several regional employment centers on this corridor, as well as regional light rail connections to other large education and employment centers. The Port of Seattle, operating the international airport for the greater Pacific Northwest region encourages Sound Transit to also highlight connections with SEA Airport, for travelers, employees and or visitors. Through our Century Agenda, the Port is committed to reduce indirect (Scope 3) greenhouse gas emissions 50% by 2030 and reach carbon neutrality by 2050 among other ground transportation goals.</p> <p>Ridership of light rail for trips to and from SEA Airport is a key tool in that effort. We encourage that the FEIS acknowledge the on-going work among Sound Transit, Port and other agency representatives to serve increasing levels of ridership. As part of the WSBLE implementation, this could include service connecting West Seattle's light rail extension with the Burien Transit Center and then to SEA Airport. Ensuring that fast and reliable connections are provided between the new Link Stations and the airport will enhance the system for many users.</p>	<p>Section 1.2, Purpose and Need for the West Seattle Link Extension, of the Final EIS has been updated to include Sea-Tac International Airport as a regional destination that the project to which the project would improve access.</p>

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27	<p>On April 12, 2022, Sound Transit staff presented the "Consolidate Smith Cove and Interbay stations" potential refinement concept to the Port Commission. We understand this is an initial assessment of feasibility with limited engineering design. It sits on Port-owned property referenced as the former Tsubota Steel site. As contributing members in the City's Maritime and Industrial Lands Strategy process, we have been a consistent voice for strengthening existing protections against incompatible land uses and development in the Manufacturing and Industrial Centers (MICs) of Seattle. Where Sound Transit's slide also called out that it would directly serve the "Armory site and areas with substantial development potential", we underscore the need for our agencies to work together to identify a clear vision for what development around Link Light Rail stations within the city's MICs will look like, and how they will support industry. While this is of critical importance in an underdeveloped area here, it applies as well to the SODO, Smith Cove, Interbay and Ballard stations adjacent or within industrial areas. We appreciate the perceived benefits of "avoiding traffic effects on Elliott" and "avoiding railroad and Interbay properties." However, we are cautious about loss of station access for the local communities. We believe it warrants further study to understand whether it can reduce risk or provide opportunities.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

ATTACHMENT A

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ID	DEIS Chptr/ Section	Page No.	Line No.	Staff	Comment	Response
1	Throughout	Throughout		GHP	Please apply comments made in one section of the DEIS to all recurrences of that discussion/issue, whether it's in the Executive Summary, the related DEIS chapter, or the related Technical Appendix.	Comments and any necessary updates to the West Seattle Link Extension Final EIS have been applied consistently across the document. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
2	ES.2.2	ES-3	4th bullet +	CBI/ABe	The DEIS references "citizens." I would suggest replacing "citizens" with the word "residents" because not only citizens will ride this and residents is more inclusive	The term "citizens" has been replaced with "people" in Section ES.2, Purpose and Need, and Section 1.2, Purpose and Need for the West Seattle Link Extension Project, of the West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
3	ES.2.3	ES-4	43-44	CBI	"The WSBLE Project would improve access to employment and educational opportunities for 44 low-income populations and minorities around the region." Please summarize evidence regarding project improving transit access for low income populations in region.	Please see the sentences following this statement in Section ES.2, Purpose and Need, of the West Seattle Link Extension Final EIS, which explain why the project would improve access. Additional information is also provided in Chapter 1, Purpose and Need for West Seattle Link Extension, and Appendix G, Environmental Justice. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
4	ES3.1.2.4	ES-34	Fig ES-42	KG	SIB-1 appears to better serve Elliott Bay Marina, Magnolia and T91; assuming MagBridge remains similar.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
5	ES3.1.2.4 & 3.19.5.6	ES-35 & 3-143	Table ES-7	KG	SIB-1 Construction: Full closure of Galer Flyover nights/weekends for 5 years would have significant impact on Terminal 91 (T91) operations and economic activity. Since T91 operates with significant weekend activity, in addition to 24 hours weekday activity (especially early morning activities), this represents a significant impact to T91. The FEIS should identify mitigation to support access for Fishing/Cruise and onsite tenants. Suggestions to explore and identify could include reopening the old at-grade Galer crossing, improving Port's security gate features and Port access at other points of entry (the T91 North gate, through the Center gate, or a west gate).	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
6	ES.3.1.2.5	ES-39	3rd paragraph	CBI	Concerns of historical value in the community caused by disruption to Fishermen's Terminal, including the indigenous history of this area. Please describe how tribal historians are involved in preservation of cultural resources here?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
7	ES 3.1.2.5	ES-39	3rd paragraph	CBI	Concerns about maritime industry history and heritage preservation. How are maritime historians involved in preservation of cultural resources here?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
8	ES.6.1	ES-42	32-44	CBI	How are non-governmental history organizations and community based organizations involved in identifying important historic or cultural landmarks? They are frequently involved and best suited for this type of consultation and are often overlooked as stakeholders. They are also organizations that are more aware of untold histories and preservation efforts that government agencies fail to preserve or act on. They should serve as a stakeholder in the discussion.	Please see Appendix N.5, Historic and Archaeological Resources Technical Report, of the West Seattle Link Extension Final EIS for more information on consultation with Tribes and organizations that participated in the Section 106 process as consulting parties. Please see Appendix G, Environmental Justice, for information on targeted outreach to low-income populations and communities of color.

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9	ES.6.2	ES-42 to ES-43	18 to 24	CBI	How are these engagements following an equitable engagement plan? What is the long-term plan to maintain relationships with the disproportionately impacted community after these design phases?	Level of detail is appropriate for Executive Summary. Please see Appendix G, Environmental Justice, of the West Seattle Link Extension Final EIS for more information on community engagement to low-income populations and communities of color. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
10	1.1	1-3		CIW	Please be specific and clarify that housing density increases do not apply to MICs. PSRC's guidance for both transit and land use plans is very clear in that respect.	Text mentions that these designations indicate that these areas will continue to increase in residential and/or employment density. Text does not state that residential would occur in Manufacturing/Industrial Centers. No changes needed.
11	3.1	3-1	bullet list	AD	Recommend replacing the term "non-motorized facilities" with "active transportation facilities" to better reflect the wider ways in which these facilities are used: walking, biking, rolling in wheelchairs, and using motorized small mobility devices like e-bikes and scooters. Recommend the use of this terminology throughout the chapter in place of "non-motorized" and "walking/biking".	Comment noted. However, this term is consistent with methodology and is a commonly understood term. No change to West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
12	3.1	3-3 to 3-4	Table 3-1	CIW	Please include any potential construction impacts on freight rail facilities.	Please see Section 3.11, Construction Impacts, of the West Seattle Link Extension Final EIS for more information on freight rail impacts during construction. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
13	3.1	3-3	non-motorized facilities	AD	Define "generally acceptable." Is LOS E often considered an acceptable level of service for projects focusing on the mobility of people driving? Standards for active transportation LOS should at least meet those required for people in cars.	For the purposes of this project, pedestrian facilities are considered acceptable if they would not exceed the capacity of the facility. LOS F is considered "over capacity," so any facility that is at an LOS E or better is not considered to be an impact. No change.
14	Transportation	3-4 and 3-58	Line 11-15 (p. 3-4) and 16-17 (p. 3-58)	GHP & Christina Billingsley	The ADEIS states that the study area for transportation impacts is limited to a 0.5-mile corridor. It appears that, with such a narrow study area, it is possible that the transportation analysis could exclude construction-related freight and traffic diversions and potential resultant air quality effects. Road access to West Seattle is currently limited by the West Seattle Bridge closure and Spokane St Bridge restrictions. But even when the High Bridge is operational, construction impacts (such as the lane reductions near Chelan St & W Marginal Way) will likely lead to diversion through low-income neighborhoods in the Duwamish Valley, namely South Park, Georgetown, and via W Marginal Way. These diversions have risk of potential impacts to Port freight operations at T5, T103, T115, and related maritime industrial businesses, safe access to Port-owned public parks, and shoreline areas (e.g. Toolalt Village Park & Haapoos Village Park) and other community resources along W+F17 Marginal Way (e.g., Duwamish Longhouse).	A 0.5-mile distance defined the general study area unless otherwise stated, consistent with the West Seattle Link Extension Final EIS methods and assumptions. See Section 3.11, Construction Impacts, of the Final EIS which identified potential affected areas beyond the 0.5-mile study area as appropriate. Additional details added in Section 4.3.3 of Appendix N.1, Transportation Technical Report .
15	3.2	3-5	bullet list	CIW	Please add reference to analysis on impacts to the navigable waterway and freight rail facilities.	Reference to navigation and rail freight has been added to Section 3.2, Introduction, Methodology, and Assumptions, of the West Seattle Link Extension Final EIS.
16	3.4.1.2	3-12, 3-13		AD/SRH	Provide a comparison to travel time by private vehicle. The comparison is relevant because many users of the transit system don't just chose between transit modes but also between transit and other non-transit modes.	Added private auto travel time to Appendix N.1, Transportation Technical Report, with a cross reference in Chapter 3.

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17	3.4.3.1.2	3-15	Both paragraphs	DS	Removal of the SODO Busway - comment applies throughout. The SODO busway removal affects other arterials, which will carry far greater bus traffic as a result of the closure. Applies to 4th, 6th, and the east / west streets that provides connections. Please ensure that the FEIS compensates for additional traffic from buses on SODO streets, for traffic volumes, travel time, and safety given increased modal conflicts among buses, trucks, cars and non-motorized traffic.	Additional microsimulation analysis of how additional bus volumes on 4th Avenue (due to the closure of the SODO Busway) would affect arterial operations, including trucks was added to Section 3.11, Construction Impact of Chapter 3, Transportation Environment and Consequences, of the Final EIS, as well as Section 4, Arterials and Local Street Operations, of Appendix N.1, Transportation Technical Report. Analysis was completed for two different construction scenarios: one assuming the full closure of Lander Street between 4th and 6th Avenues and one assuming the partial closure of 4th Avenue north of South Spokane Street. These closure scenarios reflect conditions for the preferred alternative as well as other alternatives that would have the same or similar construction closures.
18	3.5.1.2	3-22	Second paragraph	DS	As an existing condition, this section cites "LOS D references for SODO & Duwamish segments" and states that "higher vehicle delays can be experienced from nearby port & terminal operations near the E Marginal Way and S Spokane St intersection." Please ensure traffic analysis includes this anecdotal port and terminal operations delay to show if such operations are further impacted during construction of the project.	The analysis reports the LOS findings consistent with the project methodology outlined in Attachment N.1A of Appendix N.1. No change.
19	3.5.1.2	3-22	first paragraph	AD	Recommend clarifying that the L.O.S. measurements described in this section are specifically for people driving, and do not include L.O.S. measurements for people using active transportation at these intersections.	This section is titled to evaluate arterials and the introduction states that the non-motorized analysis is in a separate section. No change.
20	3.5.3.3.2	3-25	Second paragraph	DS	In the FEIS, please address vertical grades and intersection performance on 4th & 6th for the new 4th-6th Avenues overpass, particularly as used for medium & large trucks. What is the resultant impacts on freight operations' ability to utilize these	The Final EIS describes the anticipated grade of the South Lander Street railroad grade-separation structures to be 7% (Section 3.10.3.2). This is similar to the existing Lander Street grade separation over the BNSF mainline to the west. The previously proposed signal at the top of the structure has been eliminated, which would be beneficial to freight operations.
21	3.6.3.2	3-34	Table 3-11	CIW	Mitigation measures missing: to account for loss of parking in the industrial area in DUW-2. Fewer parking spaces is a big impact for trucks that are not allowed to park anywhere else in the city. Please identify how this could be mitigated.	More detail has been added to quantify potential on-street parking losses in the industrial area, which also serve trucks. Mitigation has been added for the Alternative DUW-2 impact to truck parking at Terminal 25 (Section 3.11.6.7).
22	3.9.3.3	3-50	last	KG/GHP	DUW-1b - 20% represents how many boats? "These boats are unlikely to find replacement moorage in Duwamish or Elliott Bay". What about Seattle? Or will displaced boaters need to leave Seattle completely? Could replacement moorage be built to mitigate this loss for both Harbor Island Marina and Jim Clark Marina? How else could this be mitigated? Given that the ownership model is different at these two marinas, what is the amount for each marina?	Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of displaced marinas. Option DUW-1b would displace all of Jim Clark Marina and Harbor Island Marina. The 20 percent was used to show how large of an amount of available moorage was being displaced. Please see Section 6.5, Significant and Unavoidable Adverse Impacts, for a discussion of displacements of water-dependent businesses.
23	3.9.3.3	3-50	last	KG	How will this option impact commercial moorage at Harbor Is. Marina that is not specific to Dock E?	See Section 3.9, Affected Environment and Impacts during Operation – Navigation, of the West Seattle Link Extension Final EIS for a discussion of impacts during operation and Section 3.11.3.6, Navigation, for a description of impacts during construction. Additional information is also provided in the Navigation Impact Report for the Project. As of the time of publication for the Navigation Impact Report in May 2021, we did not find documentation of commercial moorage at Docks A through D. We only found documentation of commercial moorage at Dock E.
24	3.9.3.3	3-50	last	KG	How will this option impact vessel access to Dock E?	See response to comment 23.

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25	3.9.3.3	3-50	section	KG	Missing information in analysis: DUW-1b - appears it would also impact Kiewit/General Construction on the west edge of the waterway. This company moors, loads, and repairs derrick barges in this area. High vertical clearances can be needed for crane and spud operations. Clear navigation for tugs to maneuver the derricks is important.	Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of businesses affected and economic impacts. As discussed in Section 4.3.4.3, Duwamish Segment, Option DUW-1b would displace General Construction.
26	3.9.3.4	3-50, 51	last	KG	Missing information - please add that the business impacted is Centerline Logistics. Centerline is important to other maritime activity in the harbor: Fueling of cruise ships, cargo ships & fishing vessels. Please identify how this would impact their operations.	Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of businesses affected and economic impacts, including impacts related to Centerline Logistics.
27	3.9.4	3-51	first	KG	Suggest adding Puget Sound Harbor Safety Committee to list of entities to coordinate with.	Text on coordination with the Puget Sound Harbor Safety Committee has been added to Section 3.11.6.6, Navigation, of the West Seattle Link Extension Final EIS and Section 8, Navigation, of Appendix N.1, Transportation Technical Report. This was added in text describing the construction period instead of the location suggested because it is related to construction closures.
28	3.10.3.3	3-53		CIW	Please note that the South Edge alignment may require reconfiguration of the access to Port property and could have indirect traffic impacts due to the required reconfiguration of our terminal, in particular T104.	If Option DUW-1b is selected as the project to be built, Sound Transit would coordinate with the Port of Seattle and Northwest Seaport Alliance regarding any effects to terminal access.
29	3.11.1.1	3-54	3rd paragraph	CIW	Please include consultation with the Port and NWSA in any construction traffic plans affecting our facilities.	Mitigation has been added to Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS for Sound Transit to work with the Port of Seattle when full closures could affect access to Port facilities or truck access along primary travel routes to the Port's container terminals.
30	3.11.1.7	3-57		CIW	Incomplete analysis: Please note that freight mobility and access impacts are not limited to station areas and load zones. Impacts of the project can affect access to major truck freight trip generators like our port facilities and the truck routes that serve them, especially in the Duwamish segment. Trucks have fewer routes and may be impacted in different ways than other roadway users. Please include further analysis in the FEIS related to these potential impacts.	The Final EIS provides additional detail related to impacts on truck routes, including over-dimension haul routes and the Port's Heavy Haul Routes. Section 3.11.6, Mitigation for Construction Impacts, has been updated to address affected dray routes.
31	3.11.2.1	3-57	Second paragraph	DS	Please clarify: SODO Busway closure during construction of alternative SODO-2 would likely displace 60-80 buses total in the peak hour to either 4th Ave S or 6th Ave S. These are substantial bus volumes. Text says that "the resulting traffic diversions could be adequately accommodated within the adjacent street system." Please further analyze intersection turning volumes and movements to ensure those can also be accommodated with existing length of left-turn pockets and lane channelization.	See response to comment 17.
32	3.11.2.4 & 3.11.2.5	3-59	both sections	DS	SODO Trail closure would also divert pedestrians and bicycles to 4th Ave S or 6th Ave S. Please assess if what mitigation could account for bicycles on 4th & 6th Aves S from a vehicle speed standpoint and what mitigation would be applied for the increased potential for bicycle conflicts with vehicles in lanes.	Section 3.11.2, Construction Impacts-SODO Segment, of the Final EIS identifies 6th Avenue South as the likely detour route for the SODO Trail. The specific design of the facility would be determined in collaboration with the City and other stakeholders.
33	3.11.2.6	3-59		CIW	Please confirm that 4th Ave is not impacted by the construction of either bridge alternative. It is an important north-south truck route and closures would require mitigation.	All known construction-related closures have been listed in Attachment N.1E, Permanent and Temporary Transportation Facility Closures, of Appendix N.1, Effects to 4th Avenue South during construction are described in Section 3.11, Construction Impacts, of the Final EIS. Additional details are in Section 4.3.3 of Appendix N.1 Transportation Technical Report, and following "Preferred Alternative Construction Analysis (SODO and Duwamish Segments)" section.

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34	3.11.3.1	3-59		CIW/DS	Please note even short-term weekday closures can have a significant impact on freight mobility. Similarly, night and weekend closures can impact operating maritime terminals. Please note in mitigation measures that coordination with Port/NWSA will be included. We are looking forward to continue working with your team on the critical locations.	Mitigation added to Section 3.11, Construction Impacts, of the Final EIS for Sound Transit to work with the Port of Seattle when full closures could affect access to Port facilities or truck access along primary travel routes to the Port's container terminals.
35	3.11.3.3	3-60		CIW/DS	Mitigation measures missing for impacts to large trucks from reduced truck parking within MICs. Please note that the region has a severe shortage of truck parking facilities. Large trucks, including those serving our facilities, are prohibited from parking outside MICs, compounding any loss within the MICs. Note further, improvements are planned for the Terminal 25 parking area; by FEIS or by construction, additional truck parking may be located there. Please identify mitigation: Alternative DUW-2 would temporarily affect the Terminal 25 truck parking lot, which can (in 2022) accommodate 142 truck tractors.	See response to comment 21.
36	3.11.3.5	3-60	Only sentence	DS	Seems odd to have this sentence indicating no safety impacts followed by the first one in the next section... "Temporary work trestles may be installed in the West and East waterways to support the operation of heavy equipment." Please consider navigation as a form of transportation: revisit if there are safety issues related to the temporary work trestles, heavy equipment and barges encroaching in the navigation channels. Please provide mitigation if appropriate.	Information on safety impacts related to navigation has been added to the safety discussion in Section 3.11, Construction Impacts, of the Final EIS and Section 7, Safety, of Appendix N.1, Transportation Technical Report.
37	3.11.3.6.1	3-60	2nd paragraph	DS	Please note that the permits from the ACOE may require closure scheduling related to the tidal flows and known ship activity.	Comment noted.
38	3.11.3.6.1	3-60	2nd/3rd Para	KG	ST should coordinate with USCG/Vessel Traffic System & Puget Sound Harbor Safety Cmte in addition to Tribes, USACE and SPD.	Text on coordination with the Puget Sound Harbor Safety Committee been added to the navigation discussion in Section 3.11, Construction Impacts, of the Final EIS and Section 8, Navigation, of Appendix N.1, Transportation Technical Report. Coordination with U.S. Coast Guard is already listed.
39	3.11.3.6.2	3-61	West Waterway	CIW	Additional evaluation and mitigation measures are needed to address the impact to vessels impeded by construction including a more detailed evaluation regarding the types of vessels that are impacted and the service that they provide. This activity could have significant economic impacts not only on the businesses on the waterway, but also be felt by businesses serviced by these vessels in Alaska and Hawaii.	Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of businesses affected and economic impacts. Information about businesses served in Alaska and Hawaii added to indirect impacts.
40	3.11.3.6.2	3-61	1st Para	KG	Missing impacts: The North access is the only access by vehicle for load/unload of heavier gear. Document states that mariners could use the existing southern access point. Alternative mitigation would be needed.	Information on the impact associated with the closure of the northern access point has been added to the description of impacts for Preferred Alternative DUW-1a in Section 3.11, Construction Impacts, of the Final EIS and Section 8, Navigation, of Appendix N.1, Transportation Technical Report.
41	3.11.3.6.2	3-61	West WW	DS	Please note that Jim Clark Marina improvements are owned by the marina members. Only the underlying property rights are leased to them by the Port.	Noted. No change made.
42	3.11.3.6.2	3-62	Whole page	DS	West Waterway indicates larger impacts - 3 to 4 years with loss of moorage, recreational dockage, and Tribe Fisheries Division patrol boats. States, "temporarily displaced recreational and Tribal fishing vessels are unlikely to find replacement moorage nearby." Please identify mitigation.	Mitigation is identified in Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS.
43	3.11.3.6.3	3-62	West wtwy	KG	Missing information: The rec boating dock is also used by commercial vessels that may be impacted.	Unclear what dock is being referred to. If this reference is to Harbor Island Marina, the text is referring to the recreation docks, not the commercial dock.

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44	3.11.3.6.3	3-62	Last	KG	Missing informtaion: Need to better understand and quantify impacts to Marine Construction/others vs. "could affect"	The effects from temporary restrictions on vertical clearance would depend on the size of the vessels that want to travel through this area during construction. No change.
45	3.11.3.6.3	3-63	West Waterway	CIW	Additional evaluation and mitigation measures are needed to address the impact to vessels impeded by construction including a more detailed evaluation regarding the types of vessels that are impacted and the service that they provide. This activity could have significant economic impacts not only on the businesses on the waterway, but also be felt by businesses serviced by these vessels in Alaska and Hawaii.	Mitigation is identified in Section 3.11.6, Mitigation for Construction Impacts, of the West Seattle Link Extension Final EIS. Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of businesses affected, economic impacts, and mitigation.
46	3.11.3.6.4	3-62 and 63	Whole section	DS	Please identify navigation impacts to shoreside businesses from DUW-2 North Crossing, especially at East Waterway Centerpoint (formerly Harley Marine) and on West Waterway businesses.	Please see Section 4.3, Economics, of the West Seattle Link Extension Final EIS for a description of businesses affected and economic impacts.
47	3.11.3.6.4	3-63	Last	KG	Need to better understand and quantify impacts to Marine Construction/others vs. "could affect"	The effects from temporary restrictions on vertical clearance would depend on the size of the vessels that want to travel through this area during construction. No change.
48	3.11.3.6.7	3-63		CIW	Mitigation measures missing: DUW-2: The Chelan Ave SW lane closures with one lane in each direction is not sufficient for the volumes at this area. Further, T18 parking lot impacts have the potential to affect NWSA operations. We are looking forward to working with you minimize these impacts.	Comment noted. Mitigation has been added for Alternative DUW-2 to Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS.
49	3.11.3.7	3-63	1st para; last sentence	GAH	Local business rail spurs on each side of the SODO Busway needs further definition to understand impacts to businesses of even temporarily losing rail access. How long and for which businesses?	As described in the WSBLE Draft EIS, all three SODO alternatives would permanently remove rail spur tracks along the SODO Busway north of South Lander Street. Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access of the West Seattle Link Extension Final EIS provides additional detail related to permanent and temporary rail impacts. It is noted that loading and lead tracks on the east side of the SODO Busway south of South Lander Street, including those that serve Franz Bakery and the 7th Avenue lead track, would be retained.
50	3.11.3.7	3-63	2nd paragraph	CIW	Mitigation measures missing: Any impacts on rail access to the mainline via tracks along E Marginal Way and the rail corridor to West Seattle will generate significant impacts to T5, both from an operational and economic perspective. T5 uses its on- dock rail yard to move cargo to/from the terminal. The terminal operator has contracts that require movement by rail that will be very expensive, if not impossible, to adjust. As of now, there are at least 2 trains in and 2 out per day--and each train movement carries roughly the equivalent of 280 trucks. Moving that cargo onto the road between T5 and a near-by (busy) domestic rail yard--if that can even be arranged--will increase congestion and related air emissions. We are looking forward to working with you and BNSF to avoid these impacts.	The bridge support column for Preferred Alternative DUW-1a that was near the BNSF rail bridge and railway near the West Waterway in the WSBLE Draft EIS has been moved out of the Duwamish Waterway to a location on Harbor Island, which reduces potential impact to the BNSF rail bridge. Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access and Section 3.11, Construction Impacts, of the West Seattle Link Extension Final EIS have been updated for this discussion of potential rail-related impacts.
51	3.11.3.7	3-63	last paragraph	SRH	Mitigation measures missing: Impacts to overnight truck parking are described; however, no mitigation is proposed. The construction mitigation throughout the study should address overnight truck parking impacts.	See response to comment 21.
52	3.11.6.2	3-73		CIW	Incomplete analysis: Please note that it will be important to evaluate all long potential truck detour routes in detail, as they could create unreasonable burdens for truck drivers.	See response to comment 29.

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53	3.11.6.2	3-74		CIW/GA H	Additional mitigation needed: Please add truck priority treatments to the list of potential mitigation measures. Note also that the 2nd bullet, to support employer incentives or programs to use transit, under "strategies for travel demand management" (TDM) are not available to freight movement, which predominates in the Mfg & Industrial Centers.	Mitigation has been added to Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS for Sound Transit to work with the Port of Seattle when full closures could affect access to Port facilities or truck access along primary travel routes to the Port's container terminals.
54	3.11.6.3	3-75		CIW	Additional mitigation needed: In addition to T25 South, any impacts to large truck parking in the Duwamish, and potentially SODO, reduces the availability of already scarce large truck parking. Please coordinate with the Port/NWSA to support your efforts to avoid or replace parking to minimize both impacts.	See response to comment 21.
55	3.11.6.6	3-76	all	KG	We appreciate the initial ideas for a construction navigation management plan and look forward to collaborating with Sound Transit and others to ensure impacts are sufficiently mitigated.	Thank you for your comment. Coordination with the Port of Seattle continued during preparation of the Final EIS.
56	3.11.6.7	3-77		CIW	This section requires additional analysis of impacts and proposed mitigation measures for impacts, from the DUW-1a to the rail line across Harbor Island and the rail bridge across the Duwamish, in particular with the regard to any future need for replacement of the rail bridge. Access to T5 via that corridor and bridge is essential to functionality of the terminal and mustbe maintained.	See response to comment 50.
57	3.11.6.7	3-77		CIW	Please add your approaches to address the impacts on water transport and the rail line adjacent to EMW to this section. They may be much larger than other mitigation items noted in section 3.11.6.	The major bridge support column has been moved out of the Duwamish River to a location on Harbor Island, which reduces potential impact to the BNSF rail bridge and marine navigation. The Final EIS updates the potential rail-related impacts related to this and other freight rail lead tracks.
58	3.11.6.7	3-77		GAH	Please add coordination with Port of Seattle/NWSA in first sentence to identify detour routes suitable for trucks.	See response to comment 30.
59	3.11.6.7	3-77	3rd paragraph	GAH	While we appreciate the commitment to work with the Port, it is not clear that construction effects as noted above can be mitigated and or that closures of less than one year might not need disclosure and mitigation. For example, construction of piers, footings, and subsurface earthwork for DUW-2, may result in effects that impact the viability of the container terminals and result in longer queues, air quality impacts, and long-term economic impacts to Port trade activity.	Comment noted. The preferred alternative would be south of the West Seattle Bridge and would not affect the Port's major terminals at Terminal 5, Terminal 18, and Terminal 25. If Alternative DUW-2 is selected as the project to be built, additional coordination would occur between Sound Transit and the Port of Seattle to minimize impacts during construction.
60	3.11.6.6	3-76	6th bullet	KG	ST should coordinate with USCG/Vessel Traffic System & Puget Sound Harbor Safety Cmte in addition to Tribes, USACE and SPD.	Text on coordination with the Puget Sound Harbor Safety Committee been added to Section 3.11.6, Mitigation for Construction Impacts, of the West Seattle Link Extension Final EIS and Section 8, Navigation, of Appendix N.1, Transportation Technical Report. Coordination with U.S. Coast Guard is already listed.
61	3.13.3.1.4	3-97	3.13.3.1.4 S Interbay Segment	SRH	Additional mitigation information required: Medians would be constructed to support guideway columns. Please disclose if lane widths would need to be narrowed on the Major Truck Streets of Elliott & 15th in order to add medians, and demonstrate the widths are sufficient for the large (as big as WB-67) trucks that use the arterial.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
62	3.13.3.3.5	3-99	2nd Para	KG	"F" rated intersection for Elliott Ave W/W Galer St Flyover: Alternative access to T91 will be important in this option as this is the only access to the East Gate. Please demonstrate mitigation. To the extent driven by pedestrians connecting with the station, please consider grade separation for non-motorized travellers.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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63	3.15.3.5	3-111	4th paragraph	KG	Clarification: "4,000" cruise passengers/PAX does not capture the full story of disembark/embark. At a home port, 4000 passengers would get off each ship, and 4000 would get on. For the two T91 berths, with two ships in, this would be 16,000 per home port day.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
64	3.17	3-118	Last Sentence	DS	References a "navigation impact report for Salmon Bay to support the USCG bridge permitting process: Please see POS letter attached to our cover letter, supplying our comments and concerns on this report.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
65	3.17.3	3-120	Second Sentence	DS	Missing information and analysis to assess alternatives: DEIS states "tunnel alternatives ... avoid impacts to navigation." Construction impacts for tunnels do not appear to be addressed beyond this statement.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
66	3.17.3.2	3-121 and 122	Both paragraphs	DS	IBB-1b impacts to clearance and to displacement of docks and seawall. Note that water-dependent businesses in the BINMIC rely on a business network providing an ecosystem of support. Loss of docks / seawalls compound scarce resources for all ship canal businesses. This creates access and economic pressures on the maritime & fishing economic sector.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
67	3.17.3.3	3-122	last sent/first para	KG	Impacts to removal of bilge and black water pump out at Fisherman's Terminal should be articulated. I think this is the only bilge pumpout in Seattle. How many sewage pumpouts remain accessible in the lake once this one is removed?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
68	3.18.3.5	3-124		GAH	Missing information: please describe which businesses would develop restricted left-turn access. Such complications can isolate businesses from their customer base and create economic hardship.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
69	3.18.3.5	3-124		KG	Missing information: Will Dravus have improvements that allow trucks to use it as a turn around? Current configuration has limitations on truck turns.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
70	3.18.3.6	3-125	All paragraphs	DS	Missing information: Cites guideway columns on the south side of Salmon Bay which "could affect circulation and operations of businesses along this edge of the bay. Last paragraph also states "columns ... could affect access and circulation within Fishermen's Terminal." Please consider Fishermen's Terminal operations as a cohesive unit. Impacting a portion of the area can reverberate to other sections throughout the full terminal. For example, columns in the parking lot would limit capacity and maneuverability. The Port can further explain how operations utilize the various segments to better clarify impacts.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
71	3.19.1.1.1	3-127		GAH	Missing information: could tunnel spoils be hauled by rail or ship to limit trucking impacts to street system? Remember SR99's Bertha and the conveyor belt to access a spoils barge.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
72	3.19.2.1	3-129-130		GAH	In the FEIS, please address the new 4th to 6th Avenues overpass' grade and intersection turning movements for medium and large trucks, and the resultant impacts on freight operations moving on new Holgate overpass.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
73	3.19.2.4 & 3.19.2.5	3-131	both sections	GAH	SODO Trail closure would also divert pedestrians and bicycles to 4th Ave S or 6th Ave S. Please assess if what mitigation could account for bicycles on 4th & 6th Aves S from a vehicle speed standpoint and what mitigation would be applied for the increased potential for bicycle conflicts with vehicles in	See response to comment 32.

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74	3.19.2.6	3-131		GAH	Please identify businesses (such as potentially MacMillan-Piper) who rely on the Heavy Haul Network at Holgate for container drayage between their facilities and the port terminals. Please identify potential mitigation during construction.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
75	3.19.5.4 & 5.5	3-143		GAH	Please identify the increased travel time for pedestrians, scooters or cyclists to detour from Galer flyover to the Helix Bridge as an alternate route. This could be significant detour for pedestrian/employees using transit to commute to T91.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
76	3.19.5.6	3-143	first para	KG	What is plan to provide access to T91 nights/weekends in lieu of Galer Flyover? Currently this is the only entrance for truck traffic to T91, and also to Louis Dreyfuss grain terminal, Centennial Park and the Expedia Group campus.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
77	3.19.5.6	3-143		KG	SIB-1 Construction: Full closure of Galer Flyover nights/weekends for 5 years would have significant impact on Terminal 91 (T91) operations and economic activity. Since T91 operates with significant weekend activity, in addition to 24 hours weekday activity (especially early morning activities), this represents a significant impact to T91. The FEIS should identify mitigation to support access for Fishing/Cruise and onsite tenants, including the POS Police Dept harbor boats. Suggestions to explore and identify could include reopening the old at-grade Galer crossing, improving Port's security gate features and Port access through the T91 North gate, the Center gate or a West Gate with concomitant internal network redesign.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
78	3.19.6.6	3-148	Whole Section	DS	Regarding navigation impacts for Salmon Bay and the USCG bridge permitting process: Please see the POS to USCG letter attached to our cover letter, supplying our comments and concerns on these navigation issues.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
79	3.19.6.7	3-149-150	Freight Mobility and Access	SRH	The section should provide information on potential detour routes and if closures of Holgate, W Galer Flyover, Elliott & 15th can truly accommodate the detours or if other mitigation measures will be necessary. More quantitative data should be provided to demonstrate there are no impacts.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
80	3.19.7.6	3-153 and 154	Whole section	DS	Commits to tribal coordination, via FTA, with tribes, as well as to a US Coast Guard construction navigation management plan. Please coordinate also with Port staff serving Fishermen's Terminal.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
81	3.19.7.7	3-154	last sentence	KG	Good to read that Sound Transit will work with the Port to identify construction management measures to maintain access to T91. Thank you. Curious the options here: At grade Galer x-ing?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
82	3.20	3-156		CIW	Please note our comments throughout Chapter 3 above regarding the potential for both significant indirect economic and traffic impacts. From our perspective, they will need to be mitigated.	The transportation and economic analyses for the West Seattle Link Extension have been updated in the Final EIS based on additional design and further coordination with partner agencies. Where additional direct or indirect impacts have been identified, these have been incorporated into the Final EIS, along with any applicable mitigation. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
83	4.2.1		OEDI	BGH	Request that FEIS include evaluation of impacts of project in C-ID on housing affordability and potential mitigation	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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84	4.2.1	4.2.1-2 and 4.2.1-5	Table 4.2.1-1	DW	The preferred at grade crossing for the SODO segment displaces the greatest number (17) of commercial and industrial development, the Mixed Profile (SODO-2) displaces the least (8). Sound Transit should provide a detailed report of each businesses that would be displaced to allow visibility to the contribution of those businesses to the MIC and the potential losses, or impact, associated with their relocation or removal. Displacement of significant uses supporting the port maritime industry must be avoided. Only the US Post Office is called out as a significant use located in this area. On page 4.2.3-9 to 11 impacted businesses (water dependent and related and container terminal supportive) are listed, United Motor Freight, Bob's Boat Shop, PCC logistics, etc. Section 4.2.3.6 does not propose mitigation measures that are commensurate with this impact.	Discussion about types of businesses potentially displaced is included in Section 4.3, Economics, of the West Seattle Link Extension Final EIS. Due to the number of potentially affected businesses for each alternative, the focus of the text is on businesses that could be hard to relocate, such as water-dependent businesses. Additional analysis of such businesses was completed for the Final EIS. Please see Section 6.5, Significant and Unavoidable Adverse Impacts, for a discussion of displacements of water-dependent businesses.
85	4.2.1	4.2.1-2 and 4.2.1-5	Table 4.2.1-2	DW	The preferred South Crossing for the Duwamish segment (DUW-1a) displaces 41 of commercial and industrial developments, with the North Crossing (DUW-2) displacing 51. Sound Transit should provide a detailed report of the businesses that would be displaced for visibility to the contribution of those businesses to the MIC and the potential losses, or impact, associated with their relocation or removal.	See response to comment 84.
86	4.2.1.2		table 4.2.1-2	SL	How will the supplements be distributed and what measures are in place to ensure they are equitable?	Please see Section 4.1.8, Sound Transit Real Property Acquisition and Relocation Policy, Procedures, and Guidelines Summary, for additional information on the relocation process and benefits.
87	4.2.1.2		table 4.2.1-2	SL	With DUW 1b also being considered, but the route not cutting through buildings at T102, would the whole campus be purchased by ST for laydown or transportation related use?	Potential business displacements at Terminal 102 are described in Section 4.1.4.2, Duwamish Segment, of the West Seattle Link Extension Final EIS.
88	4.2.1.8	4.2.1-9	para 1	SL	Missing information: With an eviction moratorium in place for the past 100 years, most small business' rents have not been increased during this time. Commercial small business tenants will be at a disadvantage in securing warehouse space in the Duwamish/South end where rental rates have become extremely competitive due to increases in e-commerce.	Per further discussion with the Port, this comment is no longer applicable because the eviction moratorium has ended. Please see response to CC4.1d in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.
89	4.2.1.8	4.2.1-10	last para	SL	With DUW 1a being most favorable, how long with the adjacent two marinas be affected during construction ? Will they be given stipends to relocate?	Potential impacts on these marinas are discussed in Section 4.3, Economics, of the Final EIS.
90	4.2.2.1.2	4.2.2-3		KH	This section states that "Potential future land uses are generally similar to existing land uses." While this may be true overall, it is not accurate for the T25S location, which is planned for conversion into a 9-acre habitat site.	Comment noted. The text was intended to provide a general overview. Restoration site already acknowledged in ecosystems.
91	4.2.2	4.2.2-5		DW	"Sound Transit's TOD policy includes goals for prioritizing affordable housing when redeveloping suitable agency-owned properties." Sound Transit must acknowledge zoning at the time of land acquisition when determining 'suitability.' It may be most appropriate to develop a Transit-Oriented-Workforce-Development in the industrially zoned segments.	This project would not introduce new stations in any industrial area that do not already have stations. No change to text.
92	4.2.2	4.2.2-6	Table 4.2.2-1 and 4.2.2-2	DW	For any conversion of Manufacturing & Industrial acreage (3.4 to 4.4 acres in SODO segment) (9.4 to 13.2 acres in Duwamish segment) to Transportation use, rezoning other areas within the city to replace the lost industrial land should be considered.	Land uses around stations are determined by City zoning, not by the West Seattle Link Extension Project. The project may act as a catalyst for future development as described in Section 4.2.7 of the Final EIS.
93	4.2.2	4.2.2-10		DW	Potential impacts to existing land uses during construction should recognize the relationship and impacts to water-side uses that rely on this shoreline to access land; these include the cargo container shipping and associated port terminals. Customs & Border Protection and Homeland Security both serve these terminals and container activities.	See Section 4.3, Economics, of the Final EIS for information on water-dependent businesses.

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94	4.2.2.5	4.2.2-11		DW	Clarification: "Improvements in transportation systems can influence changes to nearby land uses". See comment above on p. 4.2.2-5 and 4.2.2-6 regarding the need to protect, preserve and enhance industrial zoned land. Not all transit induced changes to land uses are good; especially given pressures on scarce industrial lands.	This project would not introduce new stations in any industrial area that do not already have stations. Information has been added to Section 4.2.5, Impacts Common to All Alternatives, of the Final EIS to specify that Vision 2050 discourages residential development in Manufacturing/Industrial Centers.
95	4.2.2.6	4.2.2-13		DW	We suggest or recommend mitigation to prevent gentrification from industrial uses to less-compatible land uses. The noise, light, glare, traffic, etc associated with industrial properties are not compatible with residential or certain other uses. Commitment to retain industrial zoning would prevent loss of industrial land.	Land uses around stations are determined by City zoning, not by the West Seattle Link Extension Project. The project may act as a catalyst for future development as described in Section 4.2.7 of the Final EIS.
96	4.2.3	4.2.3-5 & 6	Table 4.2.3-2	DW	"The West Seattle Link Extension would require acquisition of commercial, industrial, and institutional properties that might result in the disruption or displacement of businesses along the project corridor. Substantial displacement of local businesses can affect residents and businesses by altering the scale and mix of land uses and economic activity." We request that the FEIS include evaluation of impacts of the project on business property/rental affordability and potential mitigation.	Please see Section 4.3, Economics, of the Final EIS for more information on the indirect impacts of the Project on property values.
97	4.2.3	4.2.3-9 to 11		DW	Impacted businesses (water dependent and related and container terminal supportive) are listed, United Motor Freight, Bob's Boat Shop, PCC logistics. 4.2.3.6 does not propose mitigation measures that are commensurate with this impact. Sound Transit should express how they have contemplated questions such as: What is the plan to relocate these uses? Do these businesses know the options? Is there land available that will meet their needs, where they need it?	Text has been updated in Section 4.3, Economics, of the Final EIS regarding water-dependent businesses. Also, see Section 6.5, Significant and Unavoidable Adverse Impacts, for a discussion of displacements of water-dependent businesses.
98	4.2.3.3.3	4.2.3-8		2 CBi/ABe	Clarification: Please provide more interpretation of this situation: Curious about the business displacement and compensation for the the acquisition of the land. "Option DUW-1b would displace the fewest number of businesses in the	Different businesses have different numbers of employees. There is not a direct correlation between the number of businesses and the number of employees.
99	4.2.3.3.3	4.2.3-9	2nd Para	KG	Correction: DUW-2 - Centerline Logistics is the parent company of Olympic Tug and Barge (OTB). Island Tug and Barge (ITB) is the company that hauls gravel for CalPortland, not OTB.	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
100	4.2.3.3.3	4.2.3-9	1st Para	KG	General Construction is a Marine Construction company. They rent their equipment yard from the Port of Seattle (NWSA). It is a major company of its type in the PNW, which assisted building the 520 Floating Bridge.	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
101	4.2.3.3.3	4.2.3-9	2nd Para	KG	Centerline Logistics (OTB) and Maxum provide the majority of fueling services to Container, Cruise and fishing vessels in Puget Sound. Their services are critical to the harbor and would need to be relocated in reasonable proximity to Sea.	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
102	4.2.3.3.3	4.2.3-10	Impacts	KG	General Construction is located on Port property.	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
103	4.2.3.3.3	4.2.3-10	Impacts	KG	Maxum Petroleum bunkering services support the North Pacific Fishing Fleet home ported at T91	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
104	4.2.3.3.3	4.2.3-11	Impacts	KG	Western Towboat also moors tugs at Harbor Island Marina, Dock E. (POS property)	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
105	4.2.3.3.3	4.2.3-11	Impacts	KG	Centerline Logistics is the parent company of Olympic Tug and Barge (OTB)	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
106	4.2.4	4.2.4-1	20-22	CBi	Was a "vulnerability to displacement" map or analysis used in this study?	As described in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, City of Seattle displacement risk mapping was reviewed and considered in the analysis.

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107	4.2.4	4.2.4-5	16-32	CBI	Needs more explicit information on all low income and affordable housing resources in this section	Low-income and income restricted housing sites in the project study area are mapped on Figures 4.4-3 and 4.4-4. Please see Appendix L4.4, Social Resources, of the Final EIS for a list of all social resources, including low income and affordable housing, in the study area. Only resources that would be affected are called out in the text.
108	4.2.4	4.2.4-7	4.2.4.1.4	CBI	Where is this equity analysis publicly available?	The Seattle 2035 Growth and Equity Analysis is available at https://www.seattle.gov/documents/Departments/OPCD/OngoingInitiatives/SeattleComprehensivePlan/FinalGrowthandEquityAnalysis.pdf
109	4.2.4	4.2.4-10	4.2.4.3.3	CBI	Involvement by Duwamish Tribe in identifying social and cultural resources? Involvement by social cultural organizations like Friends of Georgetown History?	Please see Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS for more information on consultation with the Duwamish Tribe in relation to cultural resources. Georgetown is outside of the Study Area and this group has not provided any comments on the Project.
110	4.2.5.3.3	4.2.5-7	Table 4.2.5-1	KG	Expected Riverside residents to be noted in this table	Potential impacts to this neighborhood were analyzed but an impact was not identified.
111	4.2.6.4 to 4.2.6.6	Page 4.2.6-7	4.2.6.6. Mitigation Measures	RCh	There is not a discussion of impacts to air quality from increased congestion and traffic detours during construction. Mitigation measures are needed to minimize impact of construction and traffic detours, especially for freight traffic, in neighborhoods that already experience a high burden of diesel pollution. Neighborhoods in the Duwamish Valley adjacent to the project area have already been heavily impacted by the closure of the West Seattle bridge and detours of traffic through those neighborhoods.	Additional information has been added to Appendix G, Environmental Justice, of the Final EIS regarding the potential for traffic diversion and air quality impacts to neighborhoods south of the project corridor.
112	4.2.7.3	4.2.7-10	Fig. 4.2.7-3	KG	Clarification: No noise impact to Riverside residents on 18th and 17th?	Impacts were identified in this area. Please see the updated map in Section 4.7 of the West Seattle Link Extension Final EIS. For additional detail, please see Appendix N.3, Noise and Vibration Technical Report.
113	4.2.8.1.1	4.2.8-2	Fig. 4.2.8-1	JDe	Don't understand the difference between 'direct discharge' and 'drainage to receiving waters' on Port properties (T25, T18, T5 plus properties south along Duwamish)	This figure has been updated to reflect drainage basins assumed for project design.
114	4.2.8.1.3.	4.2.8.4	Floodplains	SP	City of Seattle updated floodplain maps using FEMA information stretch beyond the Duwamish Waterway into relevant ST-affected properties like T25 and T102. Also should be reflected in Fig. 4.2.8-1	The latest available floodplain mapping has been used. Extent of floodplain on Terminal 25 is visible on map, but floodplain on Terminal 102 is difficult to see due to map scale as well as alternatives crossing this area.
115	4.2.8.3.1	4.2.8.7	Water Quality	SP	I could be wrong, but I believe water quality treatment is required based on size of development and not where they drain per City code, i.e. drainage to a combined sewer system still needs to be treated so the statement is incorrect if my interpretation is correct.	Please see Section 4.8, Water Resources, of the Final EIS for updated discussion of water quality treatment requirements. Treatment is based on size of development as well as whether it is inside or outside of public right-of-way.
116	4.2.12.1.2	4.2.12-3	5th	BSp	It's the East Waterway not the East Duwamish Waterway. The active cleanup phase in the East Waterway operable unit has not started. EPA is expected to release the Proposed Cleanup plan soon.	Name referenced has been changed to East Waterway, and additional information from the Proposed Plan for Cleanup (released April 2023) has been integrated into the discussion in Section 4.12, Hazardous Materials, of the Final EIS.
117	4.2.12.4.3	4.2.12-10	11th	BSp	It's the East Waterway not the East Duwamish Waterway. The active cleanup phase in the East Waterway operable unit has not started. EPA is expected to release the Proposed Cleanup plan soon.	Name referenced has been changed to East Waterway, and additional information from the Proposed Plan for Cleanup (released April 2023) has been integrated into the discussion in Section 4.12, Hazardous Materials, of the Final EIS.

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118	4.2	4.2.16-1		CBI	Not addressed: How are non-governmental history organizations and community based organizations involved in identifying important historic or cultural landmarks? They are frequently involved and best suited for this type of consultation and are often overlooked as stakeholders. They are also organizations that are more aware of untold histories and preservation efforts that government agencies fail to preserve or act on. They should serve as a primary stakeholder the discussion. Ex: West Seattle Log House, Duwamish Longhouse, Friends of Georgetown History, etc.	Relevant organizations were reviewed by FTA and invited to be consulting parties under Section 106. Sound Transit has consulted with the Duwamish Tribal Organization. Notification of scoping and Draft EIS availability was sent to properties within 0.5 mile of the Draft EIS alternatives, as well as within 0.25 mile of Delridge Way Southwest between Southwest Genesee Street and Southwest 100th Street.
119	4.3.1	4.3.1-8	Economics	ATr	This section mentions some water-dependent facilities may not be able to be relocated. How would critical infrastructure be addressed, mitigated, or compensated?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
120	4.3.2.2	4-111	table 4-47/48	KG	Elliott/Galer Flyover rating is dismal. How can this be mitigated?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
121	4.2.3.3.3	4.2.3-8-11	page 11	GAH	The document describes the displacement of a long bulleted list of businesses under DUW-2. These displacement should be tied to section 4.2.3.1.6. The EIS should draw the potential connection between these displaced businesses and the discussion in section 4.2.3.1.6 of the importance of NWSA operations to the regional economy.	Text has been revised per comment in Section 4.3, Economics, of the Final EIS.
122	4.2.3.4.3	4.2.3.15-1 6	5th para	GAH	This section describes (1) locating guideway columns on Harbor Island in the T18 employee parking area; and (2) construction vehicle access for ST vehicles in the drayage truck staging areas at T18. Construction in operational areas creates risk of operational conflicts. In addition, business operations evolve constantly and the location of the guideway will permanently infringe on the flexibility of the Port/NWSA to redesign operations and redevelop systems and infrastructure to respond to major technology/systems changes. These risks are not adequately disclosed here or in the 4(f) discussion of economic impacts. Please describe these impacts in the FEIS and also describe ST's proposed mitigation.	Alternative DUW-2 would span the lead rail track serving Harbor Island but is not expected to disrupt rail operations during construction. See Section 3.11.6, Mitigation for Construction Impacts, for proposed mitigation related to freight mobility.
123	4.2.3.6	4.2.3.18-1 9		GAH	Missing Information: This section begins to explain the difficulty of relocating water dependent businesses, but does not recognize the interdependencies among businesses and operations in the harbor. Such impacts of DUW-2 may not be able to be mitigated. Since these business rely on each other -- and build the supply chain -- losing one link impacts the whole.	Additional information on impacts to the maritime sector have been added to Section 4.3, Economics, of the Final EIS. Please also see Section 6.5, Significant and Unavoidable Adverse Impacts, for a discussion of displacements of water-dependent businesses.
124	4.3.3.3.6	4.3.3-10		KG	Bowman Refrigeration just sold to their local competition. Building is going up for sale.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
125	4.3.3.3.6	4.3.3-11		KG	The Draft EIS anticipates potential impacts to Fishermen's Terminal Dock 3. This dock is critical to maintaining a shipyard facility at FT.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
126	4.3.3.5	4.3.3-17	Impacts	KG	Missing data: There are staggering stats available on how many shipyards 10 yr ago vs. today. Port could share this data in order to include it here. Please let us know if this is useful to you.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
127	4.3.8.1.1	4.3.8-2	Fig. 4.3.8-1	JDe	Don't understand the difference between 'direct discharge' and 'drainage to receiving waters' on Port properties (T25, T30, T46, T18) - SODO and CID segments.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
128	4.3.8.1.1	4.3.8-3	Smith Cove	JDe	Piers 90 and 91 serve fishing fleet as well as cruise	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
129	4.3.8.3.1	4.3.8.6	Water Quality	SP	I could be wrong, but I believe water quality treatment is required based on size of development and not where they drain per City code, i.e. drainage to a combined sewer system still needs to be treated so the statement is incorrect if my interpretation is correct.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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130	4.3.12.4.5	4.3.12-12	table 4.3.12-8	KG	Please clarify: SIB-1 does not cross T91. Should T91 be called out here? Or are they highlighting historic Port property?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
131	5.4.7.2	5-16	Impacts during Construction	RCh	There is not a discussion of impacts to air quality from increased congestion and traffic detours during construction. Mitigation measures are needed to minimize impact of construction and traffic detours, especially for freight traffic, in neighborhoods that already experience a high burden of diesel pollution. Neighborhoods in the Duwamish Valley adjacent to the project area have already been heavily impacted by the closure of the West Seattle bridge and detours of traffic through those neighborhoods.	Please see Section 5.4, Cumulative Impact Analysis, of the West Seattle Link Extension Final EIS for information on cumulative air quality impacts and mitigation measures during construction.
132	Appendix F - Public Involvement and Agency	Appdx F, F.16	Table F-5	CBI	Please include in the FEIS additional detail re methods of community outreach.	Information on additional community outreach conducted after publication of the WSBLE Draft EIS has been added to Appendix F, Public Involvement and Agency Coordination, of the West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
133	Appendix F - Public Involvement and Agency	Appendix F, F.16	Table F-5	CBI	Please include in the FEIS additional detail re methods of community outreach with Duwamish Valley stakeholders.	Outreach was conducted in areas with potential significant adverse effects, based on Sound Transit EIS methodologies. Appendix F has been updated to add more information on outreach that has occurred between the Draft EIS and the Final EIS.
134	Appendix G - Env Justice		Figure G.3-1	CBI	Assuming this is only representing residential populations? Where is the consideration of users of facilities in that are located in these areas? ie: Transit riders, including some members of the urban Indian community, who use transportation systems to get to employment, social services (food banks, youth centers, public clinics, etc) Due to displacement, lower income families and communities of color no longer live as much in the North Delridge area, but still frequent the area for its resources.	Methodology for EIS minority populations shown in this figure is based on residents, including population to the south that travel through the study area. People that use resources in the study area are reflected by evaluation of social resources in the study area. See Appendix L4.4 for a full list of social resources present in the study area.
135	Appendix G - Env Justice	G.3.6.	G.3.1.4	CBI	Subsistence fishers from immigrant and refugee populations use the river resources and fishing piers near Spokane St Bridge. How have their concerns been included in this proposal? Recommend including subsistence fishers (often immigrant & refugee populations) in the discussion of recreational & tribal fishers throughout.	Subsistence use of the Spokane Street Bridge has been added to Section 4.4, Social Resources, Community Facilities, and Neighborhoods, and Appendix G, Environmental Justice. No impacts were identified during operations or construction to users of this bridge.
136	Appendix G - Env Justice	G.6-3	Table 6-1	DW	Include in FEIS additional documentation of projected use of SODO station	Unclear what commenter is requesting. Information about station ridership is provided in Chapter 3, Transportation Environment and Consequences. The purpose of this table is to show minority and low-income populations within 0.5-mile of proposed stations.
137	App K	K-60	Table K-2	KG	Please update these references. Currently, we are on this timeline: T91: Construction start 6/11/2025, completion 10/14/2026	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
138	App K	K-61	Table K-2	KG	Please update these project references. Currently, we are on this timeline: MINC: Construction start Q4 2023, opening Q1 2025	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
139	Appendix L4.1 Aquisitions, Displacements & Relocations	pp 7-10; map pp 78-79, 89		JM	Terminal 104 is made up of the affected parcels identified as WS1262, WS5651, WS10044, WS10040. The ST-preferred alternative DUW-1a has less detrimental impacts on this site than DUW-1b. DUW-1a will result in demolition of a warehouse and limits the use of the property to the southerly yard area where the industrial rail spur is located. Alternative DUW-1b is more detrimental to this property. It would take out the on property industrial rail spur which is valuable to preserve and has the most impact to the existing tenant. Transload properties with rail access are becoming more rare and valuable.	Noted. No change to Appendix L4.1 requested or needed.

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140	Appendix L4.1 Aquisitions, Displacements & Relocations	p 7 and map 91		JM	Terminal 103 identified as WS12038 is not affected by the Preferred alternative DWU-1a, which is agreeable. Alternative DUW-1b appears that it would impact a current dock located in the submerged lands adjacent to the proeprty and is currently in use by the tenant & construction firm "General Construction." Maintaining access to the waterway and the dock is imperative for this tenant and beneficial for this property. Loss of use of the dock would devalue the property. The current tenant could not conduct its business in this location without the dock. Assuming this alternative, replacement and/or relocation within the property would be important. Please disclose these impacts of DUW-1b that would impact T-103.	Noted, impacts to this property are discussed in Section 4.3, Economics, of the West Seattle Link Final EIS.
141	L4.2.3.5	L4.2-9	first para	KG	Freight mobility will be impacted at T-91 with the night/weekend closures of the Galer Flyover	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
142	L4.2.3.5	L4.2-8	summary	KG	Seems incomplete. Should reference: https://www.portseattle.org/page/century-agenda-strategic-objectives , as this is more inclusive of the Port's goals, calling out maritime which is impacted most by WSBLE.	The Century Agenda are the Port's goals and objectives, not a plan that can be evaluated for consistency. They are referenced as input to the plan discussed; no change.
143	L4.2.4.18	L4.2-21		KG	Under POS summary they typed "...City of Seattle..." and I think they meant "...Port of Seattle. "	Discussion of the Port Long-Term plan has been consolidated in Section L4.3.4.
144	L4.4.2	L4.4-14	Table L4.4-2	KG	Fuji Bakery should be listed: 1030 Elliott Ave W	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
145	L4.8	L.1-2	Table 1-1	KG	Lake Union is not a receiving body of water from Salmon Bay, as Lake Union is upstream. Puget Sound is recipient of waters from Salmon Bay via the dam/locks.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
146	L4.8, 1.2	1-1*	State	JDe	The Construction NPDES date should be Ecology 2020	Updated for Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
147	L4.8, 1.4	1-3*	Local	JDe	Appropriate reference is Port of Seattle Stormwater Management Program Plan, 2021 (https://www.portseattle.org/sites/default/files/2021-08/FINAL_2021-0813_POS_Maritime_SWMP_Plan.pdf). The Stormwater Management Manual is for the Airport and not applicable for this study.	Linked webpage no longer works. Updated reference for document published in March 2023 in Final EIS. (https://www.portseattle.org/sites/default/files/2023-04/2023-0329_POS_Maritime_SWMP_Plan.pdf) A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
148	L4.8, 3.1.2	3-4*	Fig 3-2	JDe	This figure doesn't include 'direct discharge' category that figures 4.2.8-1 and 4.3.8-1 had, only 'drainage to receiving waters' - see comments on lines 47, 48	These figures have been updated to reflect drainage basins assumed for project design.
149	L4.8, 3.2.4	3-13*	Fig 3-6	JDe	This figure doesn't include 'direct discharge' category that figures 4.2.8-1 and 4.3.8-1 had, only 'drainage to receiving waters' - see comments on lines 47, 48	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
150	L4.8, 6	6-1*	References	JDe	Correct the Ecology construction stormwater general permit date to 2020	Updated reference in Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
151	N.1 Tech Report: Transportation	Section 3.2 & 3.3	Transit	JCP	How would added bus routes on the major trucks streets impact arterial operations during the long-term construction closures especially in the SODO area? These long-term construction impacts should be evaluated & quantitative data provided.	See response to comment 17.

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152	N.1 Tech Report: Transportation	N.4-15	DUW All Build Alternatives	SRH	The sentence states "There could be some traffic circulation and property access changes after construction related to properties that have been fully or partially acquired during construction." provide an example or clarify what this means. Would access to some properties be changed to different streets?	It is possible property access could change, including using different streets. This text has been clarified in Section 4, Arterials and Local Operations, of Appendix N.1, Transportation Technical Report, of the Final EIS.
153	N.1 Tech Report: Transportation	N.4-61	Duwamish Segment	JCP	No roadway closure table is provided for the Duwamish Segment, like they are for the other segments. Please update to include a table for the Duwamish Segment too.	Table 4-22 and Table 4-23 of Appendix N.1, Transportation Technical Report, of the Final EIS have been added to present construction roadway closures in the Duwamish Segment.
154	N.1 Tech Report: Transportation	N.4-73-4-74 N.4-144-4-145	Long-Term Mitigation	SRH	The long-term mitigation measures are general and no specifics are provided for the intersections to understand potential improvements or impacts to travel. Please provide more detail on specific mitigations for intersection impacts.	Potential mitigation options are identified for each impacted intersection for all alternatives have been updated in the Final EIS, see Section 3.5, Affected Environment and Impacts During Operation - Arterial and Local Street Operations, in Chapter 3, Transportation Environment and Consequences, and Section 4, Arterials and Local Operations, of Appendix N.1, Transportation Technical Report. Final mitigation would be decided in coordination with the City.
155	N.1 Tech Report: Transportation	N.4-74-4-76 N.4-145-4-146	Construction Mitigation	SRH	The construction mitigation measures are general and no specifics are provided to understand if there are any specific measures that will be used to address major closures that are long duration. Mitigation measures should be identified to address freight movement especially along truck routes in the City.	See response to comment 29.
156	N.1 Tech Report: Transportation	N.4-119 - 4- 122	SODO Segment	SRH	This section describes that there will be impacts related to closure of S Holgate St and diverting traffic. The volume of traffic impacted is described but no analysis of travel impacts are provided. An evaluation of impacts on freight travel should be better analyzed with concomitant discussions in Air Quality and Economics.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
157	N.1 Tech Report: Transportation	N.4-123-4-128	Chinatown-International district Segment	SRH	This section describes that there will be impacts related to closure of 4th Ave S & diverting traffic. The volume of traffic impacted is described but no analysis of travel impacts are provided including for trucks. An evaluation of impacts on freight travel should be better analyzed with concomitant discussions in Air Quality and Economics.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
158	N3.15.3.5	N.6-42	last para	KG	Clarification: "4,000" cruise passengers/pax does not capture the full story of disembark/embark. At a home port, 4000 passengers would get off each ship, and 4000 would get on. For the two T-91 berths, with two ships in, this would be 16,000 per home port day.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
159	N.1 Tech Report: Transportation	N.7-2, 7-8	7-2: 3rd paragraph / 7-8 under long term impacts	SRH	The sentence says "A mode shift where people use transit and travel less by car would have an inherent safety benefit because fewer collisions would be expected." Recent trends have shown based on the COVID-19 pandemic travel that although we have less people travel by car collisions have trended up in areas because drivers are going faster and may make more dangerous maneuvers. Sound Transit should review recent trends and update the discussion of impacts.	National research indicates that, on a per-mile basis, individuals are substantially less likely to be injured or killed while using transit than while driving. The relevant citation was added to Chapter 7, Safety, of Appendix N.1, Transportation Technical Report, of the Final EIS.
160	N.6.4.2.2	N.6-43	Fig N. 6-19	KG	Does not reflect updated walkshed for SIB-1. After a conversation with city staff, the city staff emailed updates to ST staff. We have included that as Attachment B to this submittal. [See email Vera to Sloan Nov 10, 2020 5:06pm; cc Poor/Goodwin/Flemister/Ong.] attached to Port/NWSA staff comment letter.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
161	N.6.4.2.2	N.6-42	S Interbay sgmt	KG	As noted above, SIB-1 walkshed should be shown as expanded, because it allows access to/from Smith Cove Park and the Elliott Bay Trail	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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162	N.8.2.2.2	N.8-7	DUW-2 section	KG	Will reduction of vertical clearance negatively impact repair and maint abilities to dock structures in this area? eg. derrick barge might not fit to drive or pull piles?	Please see Section 8.3.2, Build Alternatives, in Appendix N.1, Transportation Technical Report, of the West Seattle Link Extension Final EIS for more information on impacts from changes in navigation clearances.
163	N.8.2.2.2	N.8-10	DUW-2 section	KG	Will reduction of vertical clearance negatively impact repair and maint abilities to dock structures in this area? eg. derrick barge might not fit to drive or pull piles? (East Waterway)	Please see Section 8.3.2, Build Alternatives, in Appendix N.1, Transportation Technical Report, of the West Seattle Link Extension Final EIS for more information on impacts from changes in navigation clearances.
164	N.8.3.2.2	N.8-17	last sent/first para	KG	Impacts to removal of bilge and black water pump out at Fisherman's Terminal should be articulated. I think this is the only bilge pumpout in Seattle. How many sewage pumpouts remain accessible in the lake once this one is removed?	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
165	N.1 Tech Report: Transportation	N.9-14	Under Other Build Alternative (DUW-2)	SRH	It is described that crossing over the West Seattle Bridge would require a partial 3-month closure of Chelan Ave SW west of W Marginal Way SW/SW Spokane St. Any closure length of the Chelan Ave SW west of W Marginal Way SW/SW Spokane St could impact operations of the 5-leg intersection. This is a critical intersection for the POS and NWSA. Additional details should be provided to understand the closure impacts on the intersection, and resultant impacts on air emissions and economy. If impacts are identified then mitigation measures should be proposed.	See response to comment 48.
166	N.9.3.1.4	N.9-21	table N.9-7	KG	Verify actual weight restriction on Mag Bridge--I am not aware of this. Height restriction for trucks to access T91 using center gate.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
167	N.1 Tech Report: Transportation	Sections 9.2 & 9.3	Under Construction Impacts	SRH	For the construction impacts, add discussion of the relative number of trucks that would be impacted due to construction re- routing. Also, the text describes duration and location of construction impacts but does not provide any quantification of impacts on travel with the roadway closure. An evaluation of impacts on freight travel should be provided and it should be described if detour routes can truly accommodate the traffic levels especially for the closures of Elliott & 15th. If detour routes can not accommodate traffic levels then additional mitigation measures should be proposed.	Trucks volumes are included in the construction period traffic analysis contained in Chapter 4, Arterials and Local Streets, of Appendix N.1, Transportation Technical Report, of the Final EIS. Potential impacts to truck streets during construction are described in the Section 3.11, Construction Impacts, of the Final EIS and in Section 9, Freight Mobility and Access, of Appendix N.1, Transportation Technical Report. The recommended mitigation for truck street impacts is as follows: "Prior to construction activities that fully or partially close a Major or Minor Truck Street, Sound Transit would work with the City of Seattle to accommodate truck turning maneuvers or to identify detour routes suitable for trucks. Construction activities that affect the City of Seattle's Over-Legal Network, including Southwest Avalon Way and Fauntleroy Way Southwest, would be coordinated with the City of Seattle to identify construction management measures to maintain an envelope to accommodate oversized trucks during construction or to identify suitable alternative routes that would be defined prior to freight movements as part of the City's over-legal permit process." These measures would be needed regardless of the number of trucks served or the level of congestion along an affected corridor. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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ATTACHMENT B

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From: [Poor, Geraldine](#)
To: [Poor, Geraldine](#)
Subject: FW: [EXTERNAL] ST3 Smith Cove walkshed
Date: Tuesday, April 26, 2022 4:18:05 PM
Attachments: [ST3 WSBLE SmithCove RefinedWalkshed 20201021.pdf](#)

From: Giampietro, Vera <Vera.Giampietro@seattle.gov>
Sent: Tuesday, November 10, 2020 5:06 PM
To: Dawson, Sloan <Sloan.Dawson@soundtransit.org>
Cc: Flemister, Lauren <Lauren.Flemister@seattle.gov>; Ong, Lucien <Lucien.Ong@seattle.gov>; Poor, Geraldine <Poor.G@portseattle.org>; Goodwin, Kelli <Goodwin.K@portseattle.org>
Subject: [EXTERNAL] ST3 Smith Cove walkshed

WARNING: External email. Links or attachments may be unsafe.

Hi Sloan -

I am writing to share some analysis we conducted on the Smith Cove station area, looking again at the composite walkshed we showed back in January at the Agency Workshop. Lucien and I worked with Kelli and Geri to help refine the walkshed to include portions of the station area that are accessible on foot, which were previously excluded.

Please see the new proposed walkshed attached. I recognize you have a specific methodology for your walksheds and we're hoping you will consider reviewing it to ensure that it includes known pedestrian access points in the area.

Happy to discuss further with you all,

Vera

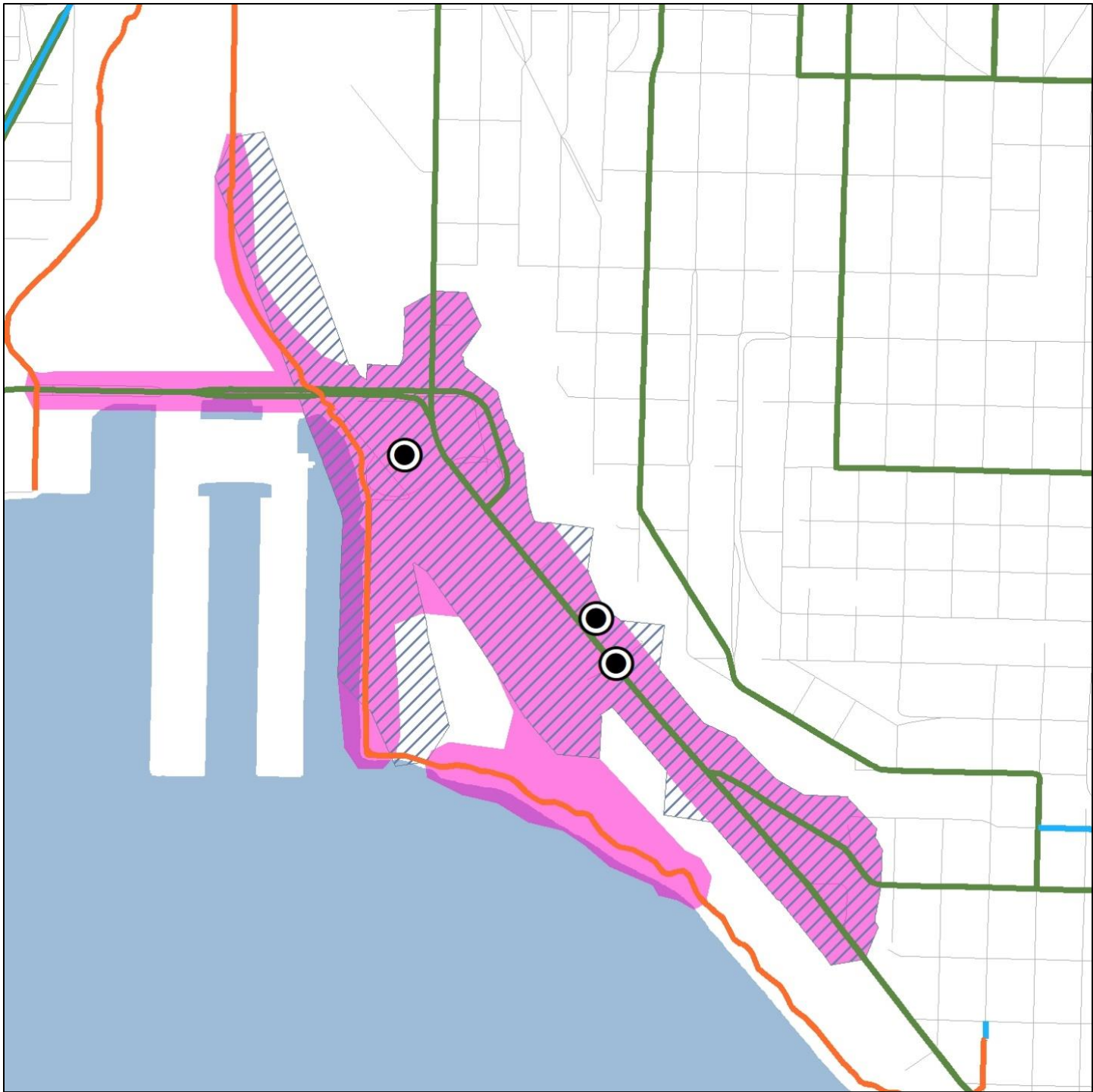
ST3 WSBLE

Smith Cove 10-minute walkshed

Updated 10/21/2020

Notes:

- Pink shape is the updated 10-min walkshed. This was manually updated with reference to the pedestrian travel times on Google Maps, which accounts for topography change. Magnolia Bridge and Helix Pedestrian Bridge were not included in the previous pedestrian network dataset.
- Grey hatched line is the 10-min walkshed presented in Q1 2020 agency workshop.
- Note that Pier 90 and 91 (cruise terminal) are not always open to public access thus not shown here. You may want to consider adding portions of the piers that are accessible within a 10-minute walk despite limits to access, with those limitations noted.
- Other lines for reference: green lines are Metro bus routes, orange lines are multi-use trails, and light blue lines are in-street bike facilities.



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ATTACHMENT C

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October 15, 2021

Commander (dpw)
U.S. Coast Guard Thirteenth District
c/o Steven M. Fischer, Bridge Administrator
915 2nd Ave, Rm 3510
Seattle, WA 98174

via email: D13-SMB-D13-BRIDGES@uscg.mil

RE: Sound Transit's request for a Preliminary Navigation Clearance Determination (PNCD) in preparation for compiling a USCG Bridge Permit application for the West Seattle and Ballard Link Extensions (WSBLE) light-rail transit project

On behalf of the Port of Seattle (Port), we write to urge serious review of the two bridge alternatives and their proposed clearances and potential effects on navigation. Please consider impacts during the operations of the light rail transit system, and also during construction, as the USCG develops its preliminary navigation clearance determination (PNCD). As we have covered before in our scoping letters, we have significant concerns about the bridge alternatives' (1) clearances, (2) potential effects on navigational access, and (3) impacts to the economy.

We are aware that Sound Transit's West Seattle and Ballard Link Extensions (WSBLE) project is studying multiple light rail alternatives in a Draft Environmental Impact Statement (EIS), which may include a new rail-only bridge across Salmon Bay of the Lake Washington Ship Canal. It may also include two tunnel alternatives which are not the subject of this public notice. Further, your Public Notice 06-21 provides information and clearances on two potential bridge types but does not reflect a final decision on a chosen bridge type.

IBB-1a (Fixed) – Elevated 14th Avenue Alternative with a high-level fixed-span bridge:
Waterway Mile 2.5, 650 feet east of the Ballard Bridge:
((Horizontal ~290 feet) (Vertical 136 feet (MWL over navigation channel))

IBB-3 (Movable Vertical-Lift) – Elevated 15th Avenue Alternative with a movable, vertical-lift bridge:
Waterway Mile 2.3, 160 feet west of the Ballard Bridge:
((Horizontal ~150 feet) (Vertical 70 feet (MWL when closed) 136 feet (MWL when open))

Navigational access to critical maritime and industrial activities within Ballard industrial areas must be a core consideration. As detailed below, the two bridge alternatives and associated construction activities could affect a wide range of cargo, fishing and other industrial operations, hamper freight movement and ultimately result in a loss of jobs in our community. The maritime industry relies on a broad ecosystem of support businesses and supply chain links, hence no one business impact can be considered in isolation. These businesses are vital to the economic vitality of the region and state.

We fully support Sound Transit's objectives of promoting mobility in our region. Expanding transit opportunities is more important than ever before as Seattle and our region continue to grow. We believe Sound Transit will find a preferred alternative that will move people more efficiently, and with minimal navigational and economic impact, while also maintaining our maritime industry and quality of life.

1. Vertical and Horizontal Clearances

For a light rail transit bridge over the Lake Washington Ship Canal, air draft should be at least as high as the Aurora Bridge. Column spacing within the waterway should be at least 200' and in alignment with the existing navigation path beneath the Ballard Bridge. During construction, the Ship Canal should not be restricted from navigation of vessels up to 78' beam by 400' length, and air draft currently available under the Aurora Bridge.

A Ship Canal crossing such as IBB-1a, a fixed structure at 136 vertical feet, means that marine traffic and light rail are completely independent of one another. However, a bridge reaching this height at the Ship Canal crossing may not be able to serve all stations approved by voters in the 2016 Sound Transit 3 ballot measure.

A bascule or other "opening" span, such as IBB-3, would create an inherent conflict between marine and light rail traffic, when trains would have to be stopped for bridge openings to accommodate navigation of vessels larger than the vertical clearance. Given the proximity to the Ballard Bridge, two bridges operated by two distinct and differing jurisdictions, will require close coordination with one another to accommodate maritime navigation and safety needs.

2. Potential Impacts to Navigational Access

a. Through the Lake Washington Ship Canal

For marine traffic transiting the Ship Canal, we have grave concerns that piers and footings of a new bridge would create new navigational constraints in a portion of the canal that is very active and already requires steady attention. The ship canal serves a mixture of working and recreational boats or ships, with a variety of sizes of watercraft, engine power, and operator experience. The Ballard Bridge openings require further (vessel) operator holding or maneuvering while vehicle traffic clears, which would be impeded by additional bridge piers.

Further, the Public Notice 06-21 has no information on construction methods or techniques: potential caissons or work platforms, larger than the final piers shown, could create new navigational hazards to access, turning and maneuvering for larger vessels. If 24-hour closures were required for construction, close coordination with emergency services, commercial interstate shipping industry and local shipyards will be necessary. Seattle Harbor Patrol would not have access to leave the Ship Canal as they moor east of Ballard Bridge. Seattle Fire Department vessels moor west of Ballard bridge and would be hard pressed to respond to a marina or waterfront fire east of Ballard Bridge during the closure.

b. To Port properties, operations, and tenants

Specific to the IBB-3 alternative, we have documented in many comment letters to Sound Transit our concerns over the impacts of the IBB-3 alignment on the west side of the Ballard Bridge. The bridge

would cross over Fishermen's Terminal and its moorage, requiring new bridge piers in areas currently used as access, and reducing turning and maneuvering room for boats coming and going. This waterside access between the ship canal channel and dock space appears to be compromised for large boats, especially with turning and positioning, exacerbated by wind and drift. This could further result in a loss of usable moorage slips for larger boats/ships.

We underscore the diminished navigational access to and from Fishermen's Terminal, which is the vibrant home of the North Pacific Fishing Fleet. It is a living landmark, as well as an active industrial site that is home to the core of the current and evolving fishing industry. Fishermen's Terminal (established in 1914), is the largest single-built, committed fishing industry support site in King County, encompassing 76 acres. It offers a full complement of services for commercial fishing and workboats and is home to approximately 300 fishing vessels who rely on the surrounding network of suppliers and trades.

Other important operations at Fishermen's Terminal include a boat repair yard, facilities serving Suquamish and Muckleshoot boats, and new uses of a maritime innovation center.

On Fishermen's Terminal, along the eastern-most side, there is a shipyard with two marine ways are situated directly west of the bridge. This location has provided services since 1914. The two marine rail systems (300-ton and 500-ton) has operated to haul approximately 50 vessels per year for repair on land and the shipyard has worked on about 50 vessels per year in the water. For IBB-3 as defined, 160 feet west of the Ballard Bridge, access to this shipyard and marine rails would remain in a narrow alley between the Ballard Bridge and light rail bridge. Given the "pier protection" fenders, it is not clear there would be any access at all. If the columns for the light rail aerial structure were to move east closer than 160 feet away, the impacts to the above ground and in water rails, landside structures and operations would be significant. Economic impacts are addressed in the next section.

The Port maintains agreements with federally recognized tribes to use berthing and facilities equipment at Fishermen's Terminal.

The Port is partnering with Washington Maritime Blue to renovate the Seattle Ship Supply building into the Maritime Innovation Center and incubate the next generation of maritime industry. This proposed development will benefit from clear water-side access to the ship canal.

The Ship Canal also serves the Port's operations at Salmon Bay Marina (SBM) and at the Maritime Industrial Center. Directly west of Fishermen's Terminal, SBM offers moorage and may be subject to these navigational issues. The Maritime Industrial Center, farther west on the ship canal offers moorage, concrete dock space (used for repair/maintenance, storage and staging), and office and shop space.

3. Implications for Maritime Economy

The proposed bridge structure may also result in economic effects to the region. The Ballard Link Extension corridor is in the center of the 615-acre Ballard-Interbay Northend Manufacturing/ Industrial Center (BINMIC), which is headquarters to industrial, maritime and fishing, and manufacturing activities. It is anchored by Fishermen's Terminal and many other essential water-dependent marine industrial assets, with related effects on other adjacent industrial uses and activities. Many vessels from the North Pacific fishing fleet homeport at facilities on the Ship Canal and SBM, especially including Fishermen's

Terminal. The decision of the vessel owners to make this their homeport is the basis for an extensive network of nearby businesses engaged in supplying those vessels. The total economic impacts of Port of Seattle related fishing at Fishermen's Terminal, Terminal 91, and the Maritime Industrial Center is 11,300 jobs, \$543 million annual payroll, and \$1.4 billion annual business revenue (Port of Seattle, Port of Tacoma, The Northwest Seaport Alliance Economic Impact Analysis, Community Attributes, Inc., March 2019).

The navigational access to Fishermen's Terminal represents a critical part of the maritime asset. Eliminating access to this terminal may negatively impact Seattle's ability to support the fleet as there are few to no alternative moorage locations within the city. It also provides access for recreational boating and the FVO shipyard.

Studied during the monorail studies in 2003-5, relocation of the FVO service and function was found to be infeasible. This likely would result in FVO moving their operation out of Seattle or closing all together, and the loss of family wage union jobs and Port revenue, as well as impacts to vendors and subcontractor jobs

Seasonality of construction effects is important: navigational access could impact to the regional economy if seasonal provisioning, homeport activities are impacted. Even closures less than the one-year could impact a season of fishing and put at risk a whole year's value.

The light rail alternative to Ballard must be chosen with regard to the maritime and BINMIC operations. We recommend that Sound Transit and the USCG further evaluate the Lake Washington Ship Canal alternatives to more accurately gauge impacts to the maritime/industrial economic sector. Thank you again for the opportunity to comment on the preliminary navigation clearance determination (PNCD). We appreciate the USCG and Sound Transit's work and look forward to continuing to work with you on this project.

Sincerely,



Stephen P. Metruck
Executive Director

ATTACHMENT D1

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**COMMISSION
AGENDA MEMORANDUM**

Item No. 10c

ACTION ITEM

Date of Meeting February 8, 2022

DATE: January 21, 2022

TO: Stephen P. Metruck, Executive Director

FROM: Jon Sloan, Interim Director, Maritime Environment & Sustainability
Kathleen Hurley, Senior Environmental Program Manager
Kathy Bahnick, Senior Manager, Environmental Programs
Joanna Florer, Senior Environmental Program Manager
Tim Leonard, Capital Project Manager

SUBJECT: T25 South Restoration program EPA Order approval and Cleanup (106176) and Habitat (105562) ERL projects design authorization

Amount of this request: \$10,000,000

Total estimated program cost: \$75,000,000,

ACTION REQUESTED

Request Commission authorization for the Executive Director to (1) execute an Administrative Order on Consent (AOC) with the U.S. Environmental Protection Agency (EPA); and (2) authorize completion of design and permitting for the Terminal 25 South Restoration Program Cleanup (106176) and Habitat Restoration (105562) projects in the amount of \$10,000,000 of a total preliminary estimated Environmental Remediation Liability (ERL) program cost of \$75,000,000. No funding is requested at this time to perform this work as it is included in the annual ERL authorization and 5-year plan.

EXECUTIVE SUMMARY

Terminal 25 is located along the East Waterway. The northern two thirds of the property is an active cargo facility, whereas the southern third of the property, known as T25 South, is an underutilized parcel that has primarily been used in recent years for bulk material storage, viaduct demolition material storage, and drayage parking. The eastern half of T25 South is licensed to the Northwest Seaport Alliance (NWSA), and the western half of the site, managed by the Port of Seattle (Port), has been identified as a potential habitat restoration site in the Port's proposed multi-site habitat mitigation bank program. The habitat mitigation bank program is a revenue-generating program that restores marginal properties for the purposes of creating 'mitigation credits' that can be reserved, sold, or serve as a component of a future settlement agreement to resolve claims related to Natural Resource Damages (NRD).

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The Terminal 25 South Restoration Habitat project will create valuable off-channel habitat, which will help bridge the gap in the habitat network between the mouth of the Duwamish Estuary and the off-channel habitat upstream along this important fish migratory corridor. Importantly, the project will restore off-channel estuarine habitat important for feeding, rearing, and refuge for juvenile salmonids. The project site includes a combined total of approximately 9 acres of upland and aquatic area along the shoreline of the East Waterway which will benefit from restored nearshore habitat consisting of riparian habitat, off-channel marsh, enhanced intertidal, and shallow subtidal areas that will, in turn, improve adjacent existing deep subtidal habitat.

In 2019 and 2020, the Port conducted preliminary investigations in the footprint of the habitat area to determine if contamination was present. These investigations confirmed the presence of contamination at the site. Therefore, as required by the attached AOC, a cleanup investigation needs to be performed, with EPA's oversight, to refine the nature and extent of contamination and ensure that the proposed habitat restoration meets EPA cleanup requirements for the East Waterway Superfund site.

Port staff is currently coordinating with the NWSA regarding Terminal 25 South site use adjustments and property agreements necessary to accommodate the proposed habitat and stormwater treatment areas. The NWSA is also evaluating a separate potential Terminal 25 South capital site improvements project to be completed in conjunction with the T25 South Restoration program and thereby benefit from resultant combined design, permitting, and construction efficiencies. Additional information will be provided regarding this project as its planning is completed concurrently with the initial phases of the proposed cleanup and habitat projects' design effort.

Construction of the Port Cleanup and Habitat Restoration projects, as well as the NWSA's potential T25 South site improvements project is currently planned to be completed via a General Contractor/Construction Manager (GC/CM) Heavy Civil alternative delivery method with contractor involvement anticipated to start at a 30% design stage in 2024. Additional information will be provided regarding this, as part of a future GC/CM contracting approval request, as the T25 Restoration program design and construction scope are further developed.

JUSTIFICATION

As keystone projects within the Port's proposed multi-site joint habitat mitigation and conservation bank program, the Terminal 25 South Restoration cleanup and habitat projects may serve to provide a service for industrial customers for whom the limiting factor for property development is the identification of suitable mitigation opportunities. Similar to the Duwamish River People's Park and Shoreline Habitat (formerly Terminal 117) as well as other Port habitat restoration projects at Terminal 108 and other locations, this project will create a large off-channel intertidal marsh and exposed unvegetated intertidal substrates (including mudflat, sandflat, and cobble) surrounded by a riparian buffer.

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The Terminal 25 Restoration program also represents an opportunity to make progress toward several of the Port's Century Agenda goals, primarily that of being the greenest and most energy-efficient port in North America; as well as watershed-based restoration priorities for the Green-Duwamish watershed and the Duwamish Estuary sub-watershed; through the proposed 40-acre habitat restoration. The Project may also serve as a component of a future settlement agreement to resolve claims related to NRD.

In conjunction with the habitat project, the site also requires cleanup with oversight from EPA. The AOC is a binding agreement to perform work by the Port, therefore the signing of the EPA Order requires Commission authorization. The signed AOC will formally initiate the process of determining the nature and extent of contamination at Terminal 25 South and identify the cleanup approach required. By cleaning up the site, the Port advances the long-term protection of human health and the environment, reduces our environmental liability, and enables the advancement of the habitat restoration.

The design effort, including extensive permitting coordination, required for this program is currently anticipated to require a minimum of five years to complete. Given this lengthy duration and the critical need to comply with the newly issued EPA cleanup order, it is recommended that this effort begin immediately. As both the proposed T25 Restoration program cleanup and habitat projects are included in the Environmental Remediation Liability (ERL) annual authorization and 5-year plan, no funding is being requested at this time to perform this work.

Diversity and Contracting

The design effort will utilize consultant services via environmental IDIQ contracts developed to serve design and permitting efforts such as those required by this program. The Maritime Environmental Site Management (Cleanup) IDIQ contract and Maritime Environmental Review Permitting and Sustainability (Habitat Restoration) IDIQ contract have WMBE aspirational goals of 15% and 23% respectively.

Workforce Development

The project team is coordinating with the workforce development team within the Office of Equity, Diversity and Inclusion, as well as Economic Development, to support construction trades opportunities in near-Port communities and the green economy in the areas surrounding the Duwamish River.

Stakeholder Communication and Outreach

The project team is coordinating with Port External Relations staff to create and implement an outreach plan for communications to appropriate community groups, stakeholders, and tenants throughout the course of the project.

Meeting Date: February 8, 2022

DETAILS

Scope of Work

The design scope to be performed under this authorization will include:

- Site investigations
- Sampling and data collection
- Coordination with EPA, Trustees, NWSA and other stakeholders
- Environmental, land use review and permitting
- Construction permitting
- Preparation of Cleanup and Habitat construction documents
- Preparation of cost estimates

The proposed site improvements planned to be performed as a result of the projects’ design efforts consist of:

- Dredging and disposal of contaminated in-water sediment
- Removal and disposal of existing in-water/shoreline creosote treated timber piles and marine structural remnants
- Excavation and disposal of upland contaminated soils
- Construction of riparian and inter-tidal habitat area including installation of native marsh and riparian plantings
- Construction of stormwater treatment basin to serve adjacent upland areas including low impact stormwater conveyance system

Design Schedule

Preliminary milestones:

Commission Design Authorization	February 2022
Execution of consultant service directives; start of site cleanup investigation and design	June 2022
30% design completion	Q4 2024
Design & permitting complete	Q1 2027
Habitat construction complete	Q4 2028

Cost Breakdown

	This Request	Total Project
Design, cleanup investigation, and other soft costs	\$10,000,000	\$10,000,000
Construction	\$0	\$62,000,000
Post Construction Monitoring	\$0	\$3,000,000
Total	\$10,000,000	\$75,000,000

Meeting Date: February 8, 2022

Project costs have been estimated based on a conceptual design and will be refined as the design is developed further.

ALTERNATIVES AND IMPLICATIONS CONSIDERED

Alternative 1 – Do not proceed with the proposed T25 South Restoration program or enter into the EPA Order.

Cost Implications: Program cost savings.

Pros:

- (1) Short-term budget cost savings.
- (2) No impact to existing T25 South site uses.

Cons:

- (1) The Port’s contamination liability at T25 South will remain unaddressed.
- (2) Could result in the U.S. Environmental Protection Agency taking enforcement action or taking over performing the required site cleanup investigation.
- (3) Loss of Port opportunity and flexibility to define and direct the work; and to manage costs.
- (4) Loss of Port opportunity to efficiently combine required site cleanup with site improvements and future.
- (5) Would not comply with Port’s obligations to remediate the site.
- (6) Not consistent with the current environmental values of the Port.
- (7) Would erode established trust between the Port and state and federal environmental oversight agencies and tribes.

This is not the recommended alternative.

Alternative 2 – Approve entering into EPA Order and proceed with T25 South cleanup, but do not proceed with the proposed Habitat Restoration project.

Cost Implications: Short-term program cost savings.

Pros:

- (1) Addresses the Port’s contamination liability at T25 South.
- (2) Short-term budget cost savings.
- (3) Limited impact to existing T25 South site uses.

Cons:

- (1) Loss of Port opportunity to achieve in potential efficiencies by combine required site cleanup with habitat restoration and potential NWSA site improvements.
- (2) Not consistent with the current environmental values of the Port.
- (3) Would erode trust between the Port and Habitat project stakeholders, regulatory agencies, and tribes.

Meeting Date: February 8, 2022

This is not the recommended alternative.

Alternative 3 3 – Approve entering into the EPA Order and proceed with proposed T25 South Restoration program design and permitting effort.

Cost Implications: Estimated \$10,000,000 for design effort.

Pros:

- (1) Addresses the Port’s contamination liability at T25 South.
- (2) Provides opportunity to efficiently combine required site cleanup with site improvements and future uses.
- (3) Provides Port ability to better manage design and construction schedules.
- (4) Consistent with the Port’s values of being responsible stewards of community resources and the environment.
- (5) Maintains established trust between the Port and state and federal environmental oversight agencies and tribes.
- (6) Minimizes long-term construction cost escalation.

Cons:

- (1) Uncertainty that mitigation obligation will be reached.
- (2) Potential additional design costs due to uncertainty of the executed agreement.

This is the recommended alternative.

FINANCIAL IMPLICATIONS

<i>Cost Estimate/Authorization Summary</i>	Capital	Expense	Total
COST ESTIMATE			
Original estimate	\$0	\$34,000,000	\$34,000,000
AUTHORIZATION			
Previous authorizations	\$0	\$0	\$0
Current request for authorization	\$0	\$10,000,000	\$10,000,000
Total authorizations, including this request	\$0	\$10,000,000	\$10,000,000
Remaining amount to be authorized	\$0	\$65,000,000	\$65,000,000

Annual Budget Status and Source of Funds

The project cost is included in the Annual ERL Authorization.

The funds for this work come from the Tax Levy. The Port actively works on cost recovery i.e. grants, insurance or payments from other 3rd parties to help support this work.

Meeting Date: February 8, 2022

Financial Analysis and Summary

Project cost for analysis	\$75,000,000
Business Unit (BU)	Maritime Environmental Services
Effect on business performance (NOI after depreciation)	N/A.
IRR/NPV (if relevant)	N/A
CPE Impact	N/A

ATTACHMENTS TO THIS REQUEST

- (1) Administrative Order on Consent and Statement of Work
- (2) Presentation

PREVIOUS COMMISSION ACTIONS OR BRIEFINGS

- November 9, 2021 – Commission approved Annual ERL Authorization
November 10, 2020 – Commission approved Annual ERL Authorization
November 5, 2019 – Commission approved Annual ERL Authorization

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ATTACHMENT D2

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September 7, 2021

Port of Seattle
Elizabeth Black
Senior Port Counsel
P.O. Box 1209
Seattle, WA 98111

Re: Ecological valuation of the proposed habitat restoration project at Terminal 25

Dear Ms. Black:

The Elliott Bay Natural Resource Trustee Council (“Trustees”) consists of the Muckleshoot Indian Tribe; the Suquamish Tribe; the State of Washington, represented by the Washington Department of Ecology (as lead state Trustee), and the Department of Natural Resources and Department of Fish and Wildlife (as state co-Trustees); the U.S. Department of the Interior; and the U.S. Department of Commerce, represented by the National Oceanic and Atmospheric Administration (“NOAA”). The Trustees are authorized by the Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”), 42 U.S.C. § 9601, *et seq.*, the Clean Water Act (“CWA”), 33 U.S.C. § 1251, *et seq.*, and the Oil Pollution Act (“OPA”), 33 U.S.C. § 2701, *et seq.*, to assess and collect damages arising from injuries to publicly owned or managed natural resources that result from releases of hazardous substances or discharges of oil to the Lower Duwamish River, including the Lower Duwamish Waterway, Lockheed West, and Harbor Island Superfund Sites (collectively, “the Site” or “LDR”).

This letter is issued by NOAA on behalf of the Trustees. The purpose of the letter is to facilitate the development of a habitat restoration project (“Project”) at and adjacent to the Port of Seattle’s (“Port”) Terminal 25 facility, by providing the Port with an opportunity to use the proposed Project towards a potential settlement of CERCLA, CWA, and OPA claims for natural resource damages (“NRD”) related to hazardous substance releases or discharges of oil associated with the Site.

The Trustees and the Port (“Parties”) have agreed to work together with the goal of establishing a habitat restoration project constructed in or proximate to the LDR within the parameters set forth in the Trustees’ Restoration Plan/Programmatic Environmental Impact Statement (“RP/PEIS”) released in July, 2013. The ecological value of the project to be built in or on the LDR is currently being measured as Discounted Service Acre Years (“DSAYs”).

The Trustees have provided technical assistance and input to the Port concerning the Project’s design, which is described in the attached Port of Seattle T-25 Conceptual Restoration Design. Based on this conceptual design as set forth in the Port of Seattle T-25 Conceptual Restoration Design, the Trustees have determined that the estimated NRD ecological value for this Project is 667 DSAYs.



The Project's estimated NRD ecological value was developed based on currently known information and certain assumptions such as the Project's implementation year, estimated project lifespan, estimated natural resource service gains from the restoration actions, and estimated acreage created. Prior to construction of the Project, the Project area at and adjacent to Terminal 25 must undergo response action under CERCLA with the U.S. Environmental Protection Agency. In addition, the Project area will need to meet contaminant thresholds outlined by the Trustees. The Trustees may update the NRD ecological value based on new information, including but not limited to, new Project designs and new information on response work and contamination on site. The Trustees may also update the NRD ecological value based on changes to information or assumptions included in the Port of Seattle T-25 Conceptual Restoration Design and used to calculate the estimated NRD ecological value for the Project.

Prior to construction of the Project, the Port will work with the Trustees to draft a Scope of Work ("SOW") for the Project that will include "Success Criteria," which are standards for performance of the Project. Upon completion of construction of the Project, the Port must complete a period of performance of monitoring and maintenance to ensure the Project is constructed as specified in the Project's SOW and is performing in accordance with the Project's Success Criteria. If the Trustees determine the Project is not built as designed or is not performing as designed in the SOW, the Trustees will provide written notice to the Port of the noncompliance and may require the Port to take actions to ensure compliance. The Port must also provide long-term stewardship for the life of the Project.

The Parties intend for the Port's investment in the Project development to provide the Port with the opportunity to propose the implementation of the Project as a component of a settlement of the Trustees' NRD claims related to the LDR. The terms of any proposed settlement will be subject to the approval, or disapproval, of authorities for the Trustees and the U.S. Department of Justice, consideration of public comments, and final approval by the federal district court.

Finally, the Port's participation in the planning, evaluation and construction of the Project shall not be used against the Port by any Trustee in any assessment of the Port's NRD liability. The Parties do not admit to any fact or to any liability under federal, state, or local law or regulation, as a result of planning, evaluating or constructing the Project.

If you have any questions or concerns, you can contact me by phone at 202-503-8160, or by e-mail at rachel.ramos@noaa.gov.

Sincerely,

Rachel Ramos
Attorney Advisor
Natural Resources Section
Office of General Counsel

cc: Marla Steinhoff, ARD, NOAA
Terill Hollweg, RC, NOAA
Glen St. Amant, Muckleshoot Indian Tribe
Rich Brooks, Suquamish Tribe
Jeff Krausmann, US FWS
Jonathan Thompson, Dept. of Ecology for the State of WA
Laura Arber, WA Dept. of Fish and Wildlife

PORT OF SEATTLE T-25 CONCEPTUAL RESTORATION DESIGN

The Terminal 25 South Site includes the southeast bank of the East Waterway, east of Harbor Island. Historically, the upland site included cold storage and seafood processing facilities, which were removed in 2004. In 2006, the Port removed the decking from a two-acre creosote-treated wood dock. The site is currently vacant and contains paved and unpaved portions which are used for parking and construction staging. Approximately 950 creosote-treated wood piling, concrete rubble, concrete bulkhead, concrete apron, and concrete decking remain in the intertidal and subtidal footprint of the former dock.

The proposed Terminal 25 habitat restoration project aims to restore estuarine wetland functions across the upland and submerged site as well as to restore and create riparian habitat and off-channel rearing and refuge habitat for salmonids and other migratory and resident fish and wildlife that use or migrate through the East Waterway. Restoration will involve the removal of on-site creosote piles, debris, fill, and riprap; excavation to intertidal and subtidal elevations; and installation of intertidal marsh and riparian buffer plantings. The project will re-establish approximately 10 acres of riparian, emergent marsh, mudflat, and subtidal habitat and will include anchored large logs to ensure habitat diversity and slope stability.

The project is designed to maximize habitat functions and values using dimensions, locations, elevations relative to MLLW, slope contours, and substrates critical to each habitat type. This approach is based on a combination of joint regulatory agency guidance (Ecology 2012) and the Habitat Equivalency Analysis methodology developed by the Elliott Bay Trustee Council (NOAA 2013).



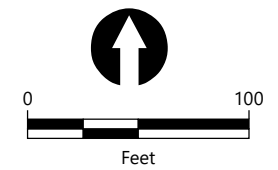
LEGEND:

- Federal Navigation Channel
- Berm
- Incised Channel

Restoration Habitat Definition

- Deep Subtidal - Fully Functional
- Intertidal - Fully Functional
- Off-Channel Emergent Marsh - Fully Functional
- Riparian
- Shallow Subtidal - Fully Functional
- Stormwater Berm (0.5 acre, not currently included in HEA)

NOTE:
1. Aerial Imagery source: Google Earth Pro, August 2020 and USGS 2012.



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ATTACHMENT D3

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Habitat Restoration and Parks/Public Shoreline Access Sites



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ATTACHMENT D4

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PORT OF SEATTLE
2018-2022
LONG RANGE PLAN

**ACHIEVING THE
CENTURY AGENDA**



DEAR COMMUNITY



The mission of the Port of Seattle is to create economic opportunity and stronger communities by advancing trade and commerce, promoting manufacturing and maritime growth, and improving our environment for current and future generations.

Our vision is to add 100,000 jobs through economic growth led by the Port, for a total of 300,000 port-related jobs in the region, while reducing our environmental footprint. We are committed to creating opportunity for all, partnering with surrounding communities, promoting social responsibility, conducting ourselves transparently, and holding ourselves accountable for improving the environment.

The Port of Seattle uses a rolling 5-year Long Range Plan (LRP) to focus our efforts on job growth and strategic objectives established by the Commission in the Century Agenda (see page 5).

Over the last two years, the LRP has helped the Port align programs to achieve the Port's Century Agenda. For each strategic objective, the LRP sets out the key actions and performance measures to guide the work and monitor progress. All Port divisions participate in the LRP through cross-departmental teams formed around strategic objectives. The LRP shapes the annual budget and ensures that all Port divisions have specific, achievable actions to keep up with the dramatic growth in our industries and create economic opportunities for all in our community.

The intention of the LRP is to bring all capabilities of the Port to bear in the work of achieving the economic and environmental goals that the Commission and public have identified as most pressing for our region.

The LRP is to be updated and formally adopted by the Commission each year. We hope you will follow our progress in creating economic opportunity and we welcome your input.

Sincerely,

 <p>TOM ALBRO Commission President</p>	 <p>STEPHANIE BOWMAN Commissioner</p>	 <p>JOHN CREIGHTON Commissioner</p>
 <p>FRED FELLEMAN Commissioner</p>	 <p>COURTNEY GREGOIRE Commissioner</p>	 <p>DAVE SOIKE Interim Executive Director</p>

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4	Introduction to the Port of Seattle
5	Century Agenda Overview
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THE PORT OF SEATTLE

AN INTRODUCTION



The Port of Seattle, referred to as the Port in this document, is a leader in moving people and cargo across the country and around the world.

Founded in 1911, the Port is a public agency providing airport operations and maritime services for the Puget Sound region. Five publically-elected commissioners who serve four-year terms establish Port policy and the Executive Director, in carrying out these policies, leads over 1,800 employees. As one of the largest land holders in King County, the Port owns Seattle-Tacoma International (Sea-Tac) Airport, piers for workboats and cruise ships, marinas, conference facilities, parks and public access areas, office space, warehouses and more.

The Port's mission is to create economic opportunity and stronger communities by advancing trade and commerce, promoting manufacturing and maritime growth, and improving our environment now and for generations to come. We are committed to creating opportunity, partnering with surrounding

communities, promoting social responsibility, conducting ourselves transparently, and holding ourselves accountable for improving the environment.

The Port's operations currently help create nearly 200,000 jobs and \$7 billion in wages throughout the region. Over the next 25 years, our "Century Agenda" seeks to create 100,000 jobs through economic growth led by the Port, for a total of 300,000 port-related jobs in the region, while reducing our environmental footprint.

Sea-Tac Airport is home to 29 airlines flying passengers and cargo non-stop to 88 domestic and 23 international destinations. The airport ranked 9th among U. S. airports for passenger activity in 2016, and expects to welcome 48 million passengers in 2017. Over the last five years Sea-Tac has seen a 46% increase in the number of passengers served per year. Ranking 19th in the US for air cargo volume in 2015, Sea-Tac shipped 336,000 metric tons of cargo in 2016.

The Port is finalizing its Sustainable Airport Master Plan to manage anticipated growth. Investing \$5 billion in near-term projects and service improvements to facilities, Sea-Tac Airport is building a new International Arrivals Facility, renovating the North and South Satellite terminals, and putting in place a new high-efficiency, centralized baggage system.

The Port also manages two cruise terminals that make Seattle the preferred choice for Alaska and Pacific Northwest cruises. In 2017, Seattle expects to host 218 cruise ships and more than 1 million passengers. The Port also manages Fishermen's Terminal - the home of the North Pacific Fishing Fleet, as well as three recreational boating marinas.

In 2015, the the ports of Seattle and Tacoma formed the Northwest Seaport Alliance (NWSA), unifying management of the marine cargo facilities and related businesses to strengthen the Puget Sound gateway and attract more marine cargo and

jobs to the region. The NWSA is the first alliance of its kind and now the fourth-largest maritime gateway in North America.

Named the "Green Gateway" for trade, the Port offers the lowest carbon footprint for cargo shipped by sea from Asia to major markets in the Midwest and East Coast. And in 2014, Sea-Tac was the first North American airport to receive certification in reducing carbon emissions by the Airport Council International (ACI) Carbon Accreditation Program. Other award-winning environmental programs at the Port include pre-conditioned air for airplane heating and cooling, requiring fuel-efficient and alternative-fuel taxis and ground transportation vehicles providing services at the airport, purchasing 'green' energy, and industry-leading wildlife and stormwater management.

For more information, visit portseattle.org.





CENTURY AGENDA OVERVIEW



In 2012, the Port celebrated 100 years of service to the Puget Sound region by creating a comprehensive, strategic initiative to guide Port priorities for the next quarter century. That initiative is the Century Agenda. The Century Agenda aligns the Port's strategies and objectives to 21st century challenges and innovative solutions.

For more than 100 years the Port has generated jobs and growth for King County and the greater region by advancing trade and commerce, promoting industrial growth, and stimulating economic development. The Port leverages its real estate, capital assets and financial capabilities to engage and improve the City of Seattle as an anchor institution and it brings those resources to bear in accomplishing the goals established by the Century Agenda.

Two years prior to the centennial, the Commission launched an extensive public engagement effort and formed a Century Agenda Committee to guide the Port's long-range vision. More than 1,000 people attended over 60 events and engagements to help develop what are now known as Strategies and Objectives, along with a proposed Mission and Commitment. Each year since, the Port staff has identified action plans that are incorporated in the Port business plans and budget to advance progress towards achieving the Century Agenda Vision, Strategies (Pg. 6), and Objectives (Pg. 9).

In 2015, various cross-functional internal LRP development teams were created to ensure "One-Port" participation and ownership of the Century Agenda. These teams operationalize the Century Agenda and drive it from being aspirational to operational in a rolling five-year planning process. The teams include Aviation, Maritime, Small Business Development, Workforce Development, Environmental and High Performance Organization.

OUR MISSION

The Port of Seattle is a public agency that creates jobs by advancing trade and commerce, promoting industrial growth, and stimulating economic development.

OUR VISION

Over the next 25 years we will add 100,000 jobs through economic growth led by the Port of Seattle, for a total of 300,000 port-related jobs in the region, while reducing our environmental footprint.

OUR COMMITMENT

The Port of Seattle creates economic opportunity for all, stewards our environment responsibly, partners with surrounding communities, promotes social responsibility, conducts ourselves transparently, and holds ourselves accountable. We will leave succeeding generations a stronger Port.



LONG RANGE PLAN OVERVIEW

The Long Range Plan (LRP) allows the Port to more effectively and transparently improve the Port's ability to support the local economy by creating 100,000 new jobs for the Puget Sound region while addressing key environmental opportunities and social responsibility of all its stakeholders. Both Century Agenda and High Performance Organization Strategies and Objectives are important in the development of the LRP and to ultimately achieve the vision for supporting the local economy.



CENTURY AGENDA

Focused on external growth: moving people and cargo, community engagement and environmental stewardship

4 STRATEGIES / 17 OBJECTIVES

- Strategy 1. Position the Puget Sound Region as a Premier International Logistics Hub
- Strategy 2. Advance this Region as a Leading Tourism Destination and Business Gateway
- Strategy 3. Use Our Influence as an Institution to Promote Small Business Growth and Workforce Development
- Strategy 4. Be the Greenest, and Most Energy Efficient Port in North America



HIGH PERFORMANCE ORGANIZATION

Focused on operations excellence, organizational alignment, and a people-centric organization

5 STRATEGIES / 11 OBJECTIVES

- Strategy 1. Increase Customer Satisfaction
- Strategy 2. Eliminate Workplace Injuries
- Strategy 3. Act as One Port
- Strategy 4. Become a Model for Workplace Equity, Diversity and Inclusion
- Strategy 5. Foster Employee Development and Leverage Talent

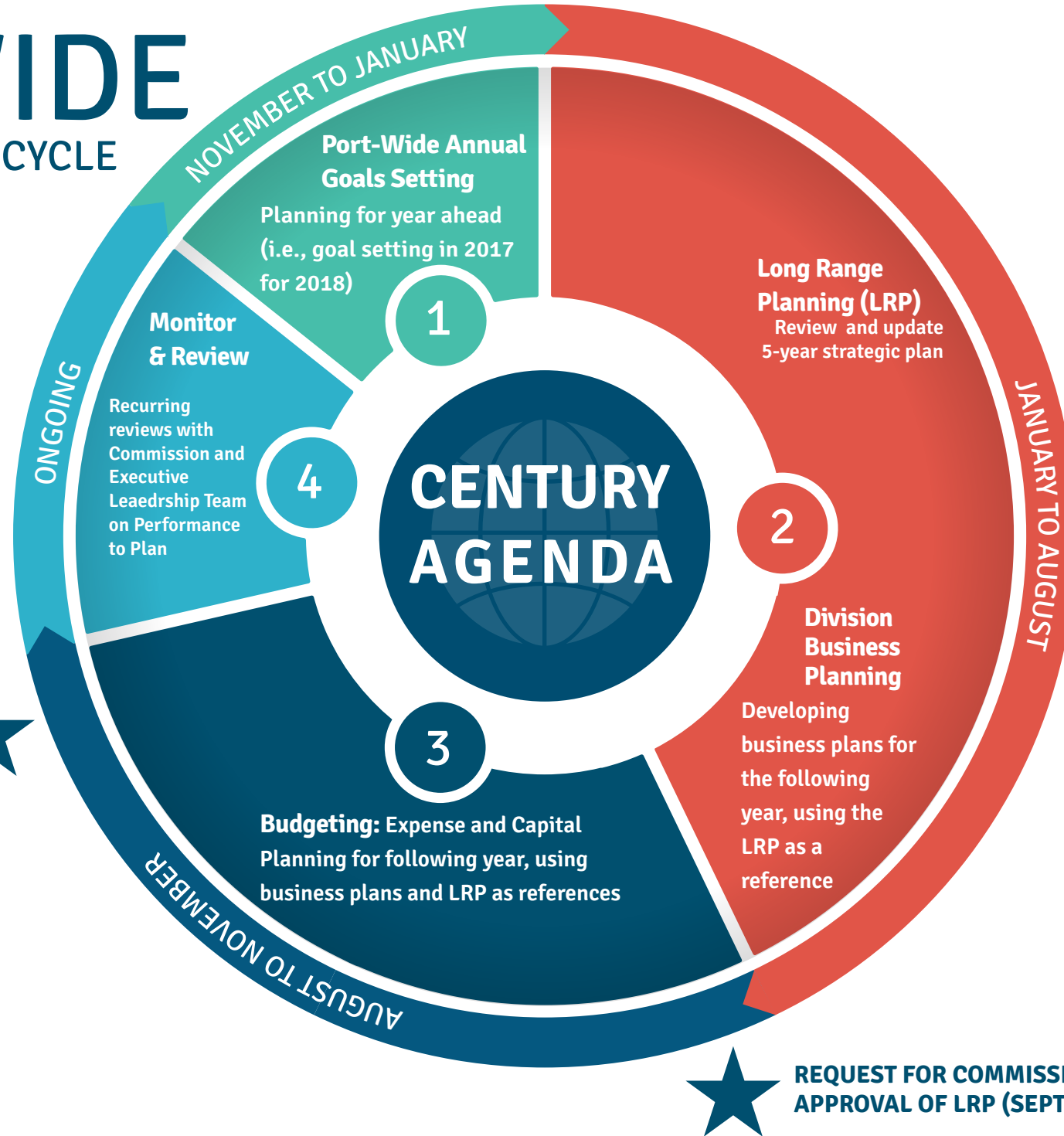
LONG RANGE PLAN SCORECARD

CENTURY AGENDA	
STATUS	Strategy 1: Logistics Hub
	Objective 1/Pg. 10 - Grow seaport annual container volume to more than six million twenty-foot equivalent units (TEUs)
	Objective 2/Pg. 11 - Structure our relationship with Washington ports to optimize infrastructure investments and financial returns
	Objective 3/Pg. 12 - Triple air cargo volume to 750,000 metric tons
	Objective 4/Pg.13 - Triple the value of our outbound cargo to over \$50 billion
	Objective 5/Pg. 14- Double the economic value of the fishing and maritime cluster
STATUS	Strategy 2: Tourism & Business Gateway
	Objective 6/Pg. 15 - Make Seattle-Tacoma International Airport the West Coast "Gateway of Choice" for international travel
	Objective 7/Pg. 16- Double the number of international flights and destinations
	Objective 8/Pg. 17 - Meet the region's air transportation needs at the Airport for the next 25 years and encourage the cost-effective expansion of domestic and international passengers and & cargo service
	Objective 9/Pg. 18 - Double the economic value of cruise traffic to Washington state
STATUS	Strategy 3: Small Business & Workforce Development
	Objective 10/Pg. 19 - Increase dollars spent with women and minority-owned businesses (WMBE) firms on construction, consulting, goods and services to 15 percent and triple the number of WMBE firms doing business with the port by 2022
	Objective 11/Pg. 20 - Increase the proportion of funds spent by the port with qualified small business firms on construction, consulting, goods and services to 40 percent of the eligible dollars spent
	Objective 12/Pg. 21 - Increase workforce training, job and business opportunities for local communities in maritime, trade, travel and logistics
STATUS	Strategy 4: Greenest, and Most Energy Efficient Port
	Objective 13/Pg. 22- Meet all increased energy needs through conservation and renewable sources
	Objective 14 /Pg. 23 - Meet or exceed agency requirements for stormwater leaving Port-owned or operated facilities
	Objective 15/Pg. 24 - Reduce air pollutants and carbon emissions
	Objective 16/Pg. 25 - Anchor the Puget Sound urban industrial land use to prevent sprawl in less developed areas
	Objective 17/Pg. 26 - Restore, create and enhance 40 additional acres of habitat in the Green/Duwamish watershed and Elliott Bay

HIGH PERFORMANCE ORGANIZATION	
STATUS	Strategy 1: Customer Satisfaction
	Objective 1/Pg. 28 - Improve customer service and public engagement
	Objective 2 /Pg. 29 - Improve process efficiencies & effectiveness
STATUS	Strategy 2: Safety
	Objective 3 /Pg. 30 - Reduce Port preventable injury rate and severity rate
	Objective 4 /Pg. 31 - All managers lead safety performance
STATUS	Strategy 3: One Port
	Objective 5/Pg. 32 - Strengthen the culture and act as an organization with a shared vision
	Objective 6/Pg. 33 - Increase Port-wide common and standardized language, business processes, technology tools, and measures
STATUS	Strategy 4: Equity, Diversity & Inclusion
	Objective 7/Pg. 34 - Increase management accountability for equity, diversity and inclusion
	Objective 8/Pg. 35 - Increase percentage of employees who agree that the Port is committed to equity, diversity and inclusion
	Objective 9/Pg. 36 - Increase awareness internally and actively share equity, diversity and inclusion programs externally
STATUS	Strategy 5: Talent Development
	Objective 10/Pg. 37 - Develop our employees' capabilities
	Objective 11/Pg. 38 - Foster awareness of Port-wide talent

Status Key	
	Not Started
	Completed
	On Track
	In Progress
	Mitigation to be developed

PORT-WIDE STRATEGIC PLANNING CYCLE



COMMISSION SEMI-ANNUAL REVIEW OF LRP (DECEMBER)



REQUEST FOR COMMISSION APPROVAL OF LRP (SEPTEMBER)



LONG RANGE PLAN

CENTURY AGENDA STRATEGIES AND OBJECTIVES

STRATEGY 1 POSITION THE PUGET SOUND REGION AS A PREMIER INTERNATIONAL LOGISTICS HUB



- Objective 1** Grow seaport annual container volume to more than 6 million twenty-foot equivalent units (TEUs)
- Objective 2** Structure our relationship with Washington Ports to optimize infrastructure investments and financial returns
- Objective 3** Triple air cargo volume to 750,000 metric tons
- Objective 4** Triple the value of our outbound cargo to over \$50 billion
- Objective 5** Double the economic value of the fishing and maritime cluster

STRATEGY 2 ADVANCE THIS REGION AS A LEADING TOURISM DESTINATION AND BUSINESS GATEWAY



- Objective 6** Make Seattle-Tacoma International Airport the West Coast "Gateway of Choice" for international travel
- Objective 7** Double the number of international flights and destinations
- Objective 8** Meet the region's air transportation needs at Seattle-Tacoma International Airport for the next 25 years and encourage the cost-effective expansion of domestic and international passenger and cargo service
- Objective 9** Double the economic value of cruise traffic to Washington state

STRATEGY 3 USE OUR INFLUENCE AS AN INSTITUTION TO PROMOTE SMALL BUSINESS GROWTH AND WORKFORCE DEVELOPMENT



- Objective 10** Increase dollars spent with women and minority-owned businesses (WMBE) firms on construction, consulting, goods and services to 15 percent and triple the number of WMBE firms doing business with the port by 2022
- Objective 11** Increase the proportion of funds spent by the port with qualified small business firms on construction, consulting, goods and services to 40 percent of the eligible dollars spent
- Objective 12** Increase workforce training, job and business opportunities for local communities in maritime, trade, travel and logistics

STRATEGY 4 BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA



- Objective 13** Meet all increased energy needs through conservation and renewable sources
- Objective 14** Meet or exceed agency requirements for stormwater leaving Port-owned or operated facilities
- Objective 15** Reduce air pollutants and carbon emissions
- Objective 16** Anchor the Puget Sound urban industrial land use to prevent sprawl in less developed areas
- Objective 17** Restore, create and enhance 40 additional acres of habitat in the Green/Duwamish watershed and Elliott bay



LONG RANGE PLAN

STRATEGY 1



CENTURY AGENDA

POSITION THE PUGET SOUND REGION AS A PREMIER INTERNATIONAL LOGISTICS HUB

OBJECTIVE 1

GROW SEAPORT ANNUAL CONTAINER VOLUME TO MORE THAN SIX MILLION TWENTY-FOOT EQUIVALENT UNITS (TEUS)

The ports of Seattle and Tacoma joined forces in August 2015, establishing the Northwest Seaport Alliance (NWSA), to unify management of our marine cargo facilities and business to strengthen the Puget Sound gateway and attract more marine cargo and jobs for the region.

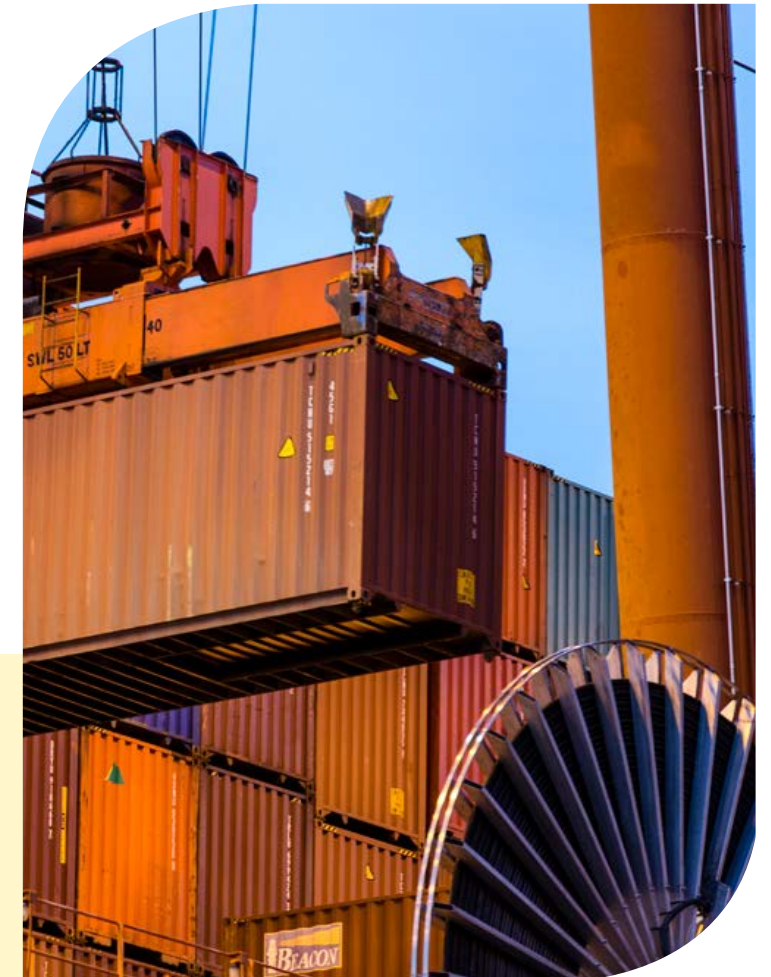
In order to achieve this objective, the Port of Seattle is committed to the implementation of the Safe and Swift Corridor program, deepening internal supply chain partnerships to grow container volume, developing Terminal 106 to maximize trans-load & supply chain benefits, and increasing public awareness of a comprehensive transportation system. The identified challenges to achieving the objective are resources and stakeholder focus needed for implementation and the rapid growth of Seattle, adding the element of competition with evolving supply chain industry needs.

KEY METRICS

- Annual container volume (in million TEUs)

2018 MILESTONES

- Finalize street vacation to support development of Terminal 5
- Carry out interim fixes for the East Marginal Way improvement projects
- Advance the South Spokane Street Corridor planning, including approval of Federal Quiet Zones designations
- Release Request for Proposal for Terminal 106
- Explore opportunities to expand utilization of Foreign Trade Zone #5 in partnership with NWSA and other public/private stakeholders
- For more details, the NWSA Strategic Plan can also be accessed from the NWSA website. For more information about the NWSA, visit: www.nwseaportalliance.com





LONG RANGE PLAN STRATEGY 1



CENTURY AGENDA

POSITION THE PUGET SOUND REGION AS A PREMIER
INTERNATIONAL LOGISTICS HUB

OBJECTIVE 2 STRUCTURE OUR RELATIONSHIP WITH WASHINGTON PORTS TO OPTIMIZE INFRASTRUCTURE INVESTMENTS AND FINANCIAL RETURNS

The ports of Seattle and Tacoma joined forces in August 2015, establishing the Northwest Seaport Alliance (NWSA), to unify management of our marine cargo facilities and business to strengthen the Puget Sound gateway and attract more marine cargo and jobs for the region.

The NWSA strategic plan focuses on providing reliable and efficient regional and local infrastructure connections: enhance transportation infrastructure and improve the Seaport Alliance's infrastructure (NWSA Strategic Plan #2 A and B). Additionally, the NWSA aims to increase revenue through growth and diversification (NWSA Strategic Plan #3A).

The NWSA Strategic Plan can also be accessed from the NWSA website. For more information about the NWSA, visit: www.nwseaportalliance.com.



With the creation of the NWSA, the Port of Seattle has successfully completed this objective



LONG RANGE PLAN

STRATEGY 1



CENTURY AGENDA

POSITION THE PUGET SOUND REGION AS A PREMIER INTERNATIONAL LOGISTICS HUB

OBJECTIVE 3

TRIPLE AIR CARGO VOLUME TO 750,000 METRIC TONS

KEY METRICS

- Air Cargo Volume (metric tons)
- Cargo Handling Facility Area (square footage)
- Facility Space Utilization (ratio of the two metrics above)

PRIORITY ACTION 1: INCREASE AIRLINE CARGO CAPACITY

Air cargo is carried aboard by both freighter and passenger aircraft at Seattle-Tacoma International Airport, with freighters handling 63% of total cargo and the remaining 37% termed “belly cargo” as it travels in the bellies of passenger flights, along with passenger baggage. Nearly two-thirds of all international freight is carried as belly cargo, emphasizing the significant synergy between international passenger service and air cargo. While Seattle-Tacoma International Airport actively markets airport services to airline freighter operators, passenger airline routing decisions are made on the basis of passenger demand and reflect the Aviation business strategies.

PRIORITY ACTION 2: EXPAND ON- AND OFF-AIRFIELD CARGO FACILITIES FOOTPRINT

Consistent with the airport’s Sustainable Airport Master Plan, airfield air cargo facilities will be relocated, redeveloped, or built new, on or directly adjacent to the airfield. Existing air cargo facilities not directly impacted by terminal expansion will require redevelopment to increase their processing efficiency. Preferably, the total inventory of air cargo warehouse facilities needed to support airline cargo capacity will remain on the airfield; however, insufficient area exists in the near future, and adjacent off-airfield land will be needed to bridge the gap, either on an interim basis, or permanently.

PRIORITY ACTION 3: BUILD STRATEGIC LOGISTICS PARTNERSHIPS

Sponsor the development of all available Port-owned land in the airport vicinity for use by air cargo related and other logistics, manufacturing, and other supportive uses that contribute to growth in air cargo tonnage at Seattle-Tacoma International Airport. Enhance global logistics presence at Seattle-Tacoma International Airport and in the region.

2018 MILESTONES

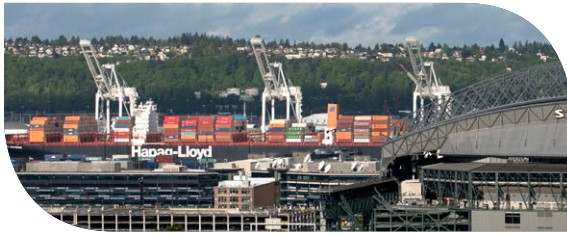
- Add at least one freighter airline service
- Provide belly capacity growth market intelligence to support air service development

2018 MILESTONES

- Conclude lease negotiations for available on-airfield warehouse vacancy of approximately 35,000 square feet of airfield cargo handling space inventory
- Sponsor development of airfield-adjacent Port-owned land

2018 MILESTONES

- Hold ribbon-cutting ceremony for Burien Northeast Redevelopment Area cargo-related logistics development
- Reach ground breaking of Des Moines Creek North Development in the City of SeaTac



LONG RANGE PLAN STRATEGY 1



CENTURY AGENDA POSITION THE PUGET SOUND REGION AS A PREMIER INTERNATIONAL LOGISTICS HUB

OBJECTIVE 4 TRIPLE THE VALUE OF OUR OUTBOUND CARGO TO OVER \$50 BILLION

The ports of Seattle and Tacoma joined forces in August 2015, establishing the Northwest Seaport Alliance (NWSA), to unify management of our marine cargo facilities and business to strengthen the Puget Sound gateway and attract more marine cargo and jobs for the region. The value of outbound air and seaport cargo are the key measures for this objective.

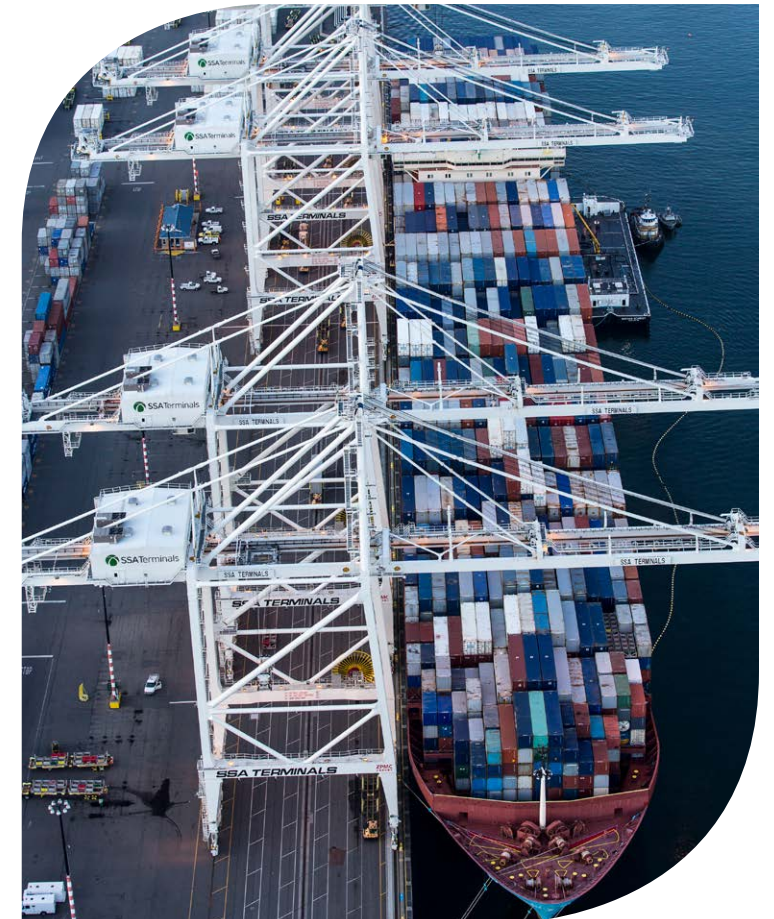
Priority actions for this objective are dependent upon completion of the marine cargo economic impact study. An assessment needed to determine the measurement value of this Century Agenda item.

The Port's Aviation division long range plan details the air cargo priority actions to also achieve this objective, see Century Agenda Objective 3. Furthermore, the Port is updating this objective to reflect only air cargo value in the future.

For more details, the NWSA Strategic Plan can also be accessed from the NWSA website. For more information about the NWSA, visit: www.nwseaportalliance.com.

KEY METRICS

- Value of outbound air and seaport cargo (\$)





LONG RANGE PLAN

STRATEGY 1



CENTURY AGENDA

POSITION THE PUGET SOUND REGION AS A PREMIER INTERNATIONAL LOGISTICS HUB

OBJECTIVE 5

DOUBLE THE ECONOMIC VALUE OF THE FISHING AND MARITIME CLUSTER

KEY METRICS

- Jobs created
- Tax revenues generated
- Induced and indirect impacts

PRIORITY ACTION 1:

REDEVELOP AND MODERNIZE FISHERMEN'S TERMINAL

The Port embarked on a Long Term Strategic Plan for Fishermen's Terminal, which is a "use and needs" analysis of the maritime cluster in and around Fishermen's Terminal. The plan allows the Port to bring more services and suppliers onto Fishermen's Terminal property that would support and complement the commercial fishing industry. We plan to consolidate net shed warehouse uses and provide support for workforce training. We will also provide wayfinding and interpretive exhibits that highlight our maritime heritage and work with tourism partners to promote Fishermen's Terminal as a "Living Landmark."

2018 MILESTONES

- Demolish Net Sheds N7 & N8
- Secure permits and begin construction on two light industrial facilities totaling 120,000 square feet
- Install new wayfinding signs and maritime interpretive features

PRIORITY ACTION 2:

ACQUIRE MARITIME PROPERTIES THAT CAN SUPPORT THE REGION'S MARITIME INDUSTRIES

The Maritime and Economic Development divisions are dedicating efforts to explore and address the needs of our region's maritime industries in a strategic manner. We will pursue the acquisition of maritime properties that can sustain and support longer term industry needs. We will also continue to develop and recommend strategies to protect industrial lands via political/policy advocacy, property acquisition and other methods.

2018 MILESTONES

- Develop or acquire at least one site or facility that supports the region's maritime industries

PRIORITY ACTION 3:

PROMOTE MARITIME INNOVATION

It is the Port's responsibility to be competitive in the pursuit of new maritime technologies. The Port intends to develop connections with angel and venture funding groups surrounding promising maritime technologies and to work with industry partners to commercialize them. Efforts are also being focused on a business plan to operate a maritime innovation center at Fishermen's Terminal.

2018 MILESTONES

- Construct or renovate facility for Maritime Innovation Center
- Finalize management partnership for Maritime Innovation Center operations

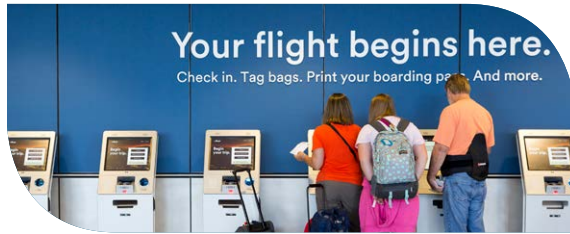
PRIORITY ACTION 4:

ADVOCATE FOR MARITIME AND FISHING INDUSTRY SUSTAINABILITY

In order to align with the goal of being a leader in the practice and promotion of sustainable business, the Port will continue to advocate for the maritime industry at the state and federal levels, specifically for zoning and development regulations that protect industrial lands. As the Maritime and Fishing industry grows and thrives, the Port will champion state and federal programs that can address fishing fleet recapitalization needs and issues.

2018 MILESTONES

- Support legislation that provides tax incentives to the maritime and/or fishing industry
- Support federal legislation and rules that provide capital for fishing fleet modernization



LONG RANGE PLAN STRATEGY 2



CENTURY AGENDA ADVANCE THIS REGION AS A LEADING TOURISM DESTINATION AND BUSINESS GATEWAY

OBJECTIVE 6 MAKE SEATTLE-TACOMA INTERNATIONAL AIRPORT THE WEST COAST “GATEWAY OF CHOICE” FOR INTERNATIONAL TRAVEL

KEY METRICS

- JD Power overall customer satisfaction index as compared with West Coast competitive airports

PRIORITY ACTION 1:

COMPLETE THE INTERNATIONAL ARRIVALS FACILITY (IAF) PROJECT

The IAF project will construct a new international arrivals facility on the landside of Concourse A by Quarter 3 of 2019. The project will increase the capacity of the Federal Inspection Services area and increase the number of gates capable of handling International arriving aircrafts from 12 to 20.

PRIORITY ACTION 2:

REDUCE MINIMUM CONNECT TIMES BY IMPROVING FACILITIES AND PROCESSES

The Baggage Optimization project will facilitate in-line baggage transfers that will permit the airport to achieve a minimum connect time target of 75 minutes that is critical to passengers (PAX) connecting to and from international flights. Additionally, there are a percentage of International arriving passengers who miss connecting flights due to the amount of time it takes to get through customs.

PRIORITY ACTION 3:

IMPROVE CUSTOMER SERVICE

The Port is dedicating significant efforts to the passenger and customer experience across all business divisions. A team is in place that is focused on providing more quantitative and multi-dimensional customer insights.

PRIORITY ACTION 4:

ENHANCE THE AIRPORT DINING & RETAIL EXPERIENCE

Sea-Tac is in the midst of re-developing its dining and retail program as leases for the majority of its current tenants expire. The redevelopment is focused on improving the overall customer experience through new investment in dining, retail and passenger services with an emphasis on enhancing the Pacific Northwest Sense of Place.

2018 MILESTONES

- Complete Sterile Corridor Pod A (Gates A6 & A7)
- Complete IAF Building Structural Steel
- Complete Bridge Foundations/Abutments
- Complete IAF Building Shell and Enclosure

2018 MILESTONES

- Create a baseline for current customer connect times
- Complete a continuous process improvement effort to reduce rate of International Missed Connections
- Implement the U.S. Customs and Border Protection Reimbursable Services Program

2018 MILESTONES

- Establish Aviation’s department of Customer Service
- Determine baseline percentage of bags requiring secondary screening at Transportation Security Administration (TSA) checkpoints
- Reduce the time spent in divesting of bags at TSA checkpoints
- Complete installation of Automated Screening Lanes at TSA checkpoints

2018 MILESTONES

- Announce firms selected for Lease Group 4 opportunities by end of Q1
- Open the Central Terminal Temporary Food Cart Program by end of Q1
- Open 18 (75%) of the 24 units awarded in Lease Group 3 by the end of Q4
- Open 3 additional Intermediate Kiosks (up from 3 at the end of 2017) by the end of Q4



LONG RANGE PLAN STRATEGY 2



CENTURY AGENDA ADVANCE THIS REGION AS A LEADING TOURISM DESTINATION AND BUSINESS GATEWAY

OBJECTIVE 7 DOUBLE THE NUMBER OF INTERNATIONAL FLIGHTS AND DESTINATIONS

KEY METRICS

- International long-haul services
- Annual long-haul international seats
- Nonstop international long-haul destinations

PRIORITY ACTION 1:

IMPLEMENT BEST PRACTICE AIRPORT MARKETING

To compete effectively with airports such as Vancouver, San Francisco and other similarly-situated airports, Port will develop and implement a comprehensive, holistic airport marketing plan that incorporates airport marketing best practices utilized by other successful airports.

PRIORITY ACTION 2:

MANAGE AN EFFECTIVE AIR SERVICE INCENTIVE PROGRAM

The Port will manage an effective and multifaceted incentive program, and will continuously evaluate the effectiveness of current program components, incorporating feedback from existing and potential airline partners and assessing the effectiveness of competing airports' programs.

PRIORITY ACTION 3:

ELEVATE THE REGION'S STATURE IN THE GLOBAL MARKETPLACE

With a robust economic base and favorable geographic location, Seattle has the opportunity to have a strong, internationally recognized brand. It nevertheless remains significantly less well-known internationally than its West Coast peer cities. The Port will work with stakeholders in the Puget Sound region in order to increase Seattle's global presence and brand identity.

2018 MILESTONES

- Complete a review of best practice airport marketing strategies based on air service development study completed in 2017
- Develop a strategic air service development marketing plan tailored to the unique strengths of Seattle-Tacoma International Airport

2018 MILESTONES

- Seek Commission reauthorization of the Airport Incentive Program
- Attend six airport-airline forums to build strong relationships with airlines

2018 MILESTONES

- Develop partnerships with regional stakeholders to advance the interests and stature of the region with a unified voice and strategy
- Join one international economic development mission to target markets



LONG RANGE PLAN

STRATEGY 2



CENTURY AGENDA

ADVANCE THIS REGION AS A LEADING TOURISM DESTINATION AND BUSINESS GATEWAY

OBJECTIVE 8

MEET THE REGION'S AIR TRANSPORTATION NEEDS AT SEATTLE-TACOMA INTERNATIONAL AIRPORT FOR THE NEXT 25 YEARS AND ENCOURAGE THE COST-EFFECTIVE EXPANSION OF DOMESTIC AND INTERNATIONAL PASSENGER AND CARGO SERVICE

KEY METRICS

- Million annual passengers that can be accommodated (Primary)
- Passenger airline cost per enplaned passenger (CPE)
- Specific airline rates (e.g., landing fee, Federal Inspection Station (FIS) rate, etc.)

PRIORITY ACTION 1:

COMPLETE AND IMPLEMENT THE SUSTAINABLE AIRPORT MASTER PLAN (SAMP)

SAMP will identify the facility requirements to accommodate the 20 year forecasted growth at Seattle-Tacoma International Airport (through 2034). Completing SAMP includes conducting the environmental review, assessing financial feasibility and obtaining Federal Aviation Administration (FAA) approval. Efforts will then take place involving additional planning and programming to develop projects for incorporation into the Port Aviation division capital plan.

PRIORITY ACTION 2:

ACCOMMODATE INCREASED UTILIZATION OF FACILITIES

Reinvesting in existing assets is critical to maintaining and enhancing capacity. Facilities and infrastructure must be replaced and/or upgraded. Major projects underway include: the renovation and expansion of the North Satellite (NSAT). Planning is underway to renovate the South Satellite.

PRIORITY ACTION 3:

DEVELOP ASSET MANAGEMENT PROGRAM STRATEGY

Asset Management is critical for managing the Port's Infrastructure and managing Total Cost of Ownership of both existing and new facilities. The Port will perform all services necessary to determine the most feasible option for creating an asset management program that leverages the Port's Computer Maintenance Management System, Geographic Information System technologies, and our facilities master record drawings to create an Asset Management program where renewal and replacement of existing infrastructure and a long range maintenance program can be managed from a central platform. The system will also be used to manage properties with respect to leases.

PRIORITY ACTION 4:

KEEP AIRLINE COSTS COMPETITIVE

The primary measure of airline costs at an airport is the passenger airline cost per enplaned passenger (CPE). Rigorous budgeting and cost control are key to managing operating costs. Managing long-term capital costs requires a strategic trigger driven capital plan and a financing plan that maximizes the efficiency of Passenger Facility Charges (PFCs) through leverage and one that seeks to maximize FAA grants. Growing non-aeronautical revenues reduces borrowing needs and increases the ability to directly offset airline costs through revenue sharing. To keep airline rates competitive, the Port will continue to maintain a balanced funding plan that allows PFCs to be deployed to cost centers where needed to reduce rate base costs.

2018 MILESTONES

- Start public scoping of environmental review
- Complete the Ground Transportation Access Plan
- Complete Main Terminal Optimization Plan
- Complete Concourse A Concept Development

2018 MILESTONES

- Complete NSAT Phase 1 expansion and improvements to include footings, foundations, slab, structural steel, two escalators in Central Core vertical circulation, exterior skin & roof, and all site utilities
- Begin NSAT interior finishes and reach entire project Construction 30% complete
- Open Concourse D Hardstand Terminal

2018 MILESTONES

- Complete Asset Management Gap Assessment by Q3
- Obtain Commission Authorization and funding to implement strategy in Q3
- Upon budget authorization, begin implementation from Gap Assessment

2018 MILESTONES

- Evaluate the potential for public private partnership in connection with implementation of SAMP projects
- Achieve non-aeronautical net operating income
- Meet 2018 CPE budget



LONG RANGE PLAN

STRATEGY 2



CENTURY AGENDA

ADVANCE THIS REGION AS A LEADING TOURISM DESTINATION AND BUSINESS GATEWAY

OBJECTIVE 9

DOUBLE THE ECONOMIC VALUE OF CRUISE TRAFFIC TO WASHINGTON STATE

KEY METRICS

- Economic Impact data (jobs, personal income, business revenue, local purchases, taxes, and per call impact)
- Number of passengers and annual revenue to the port
- Passenger spending as a function of percentage of cruise passengers that arrive before or stay after their cruise

PRIORITY ACTION 1:

INCREASE MARKET SHARE WHILE SUPPORTING REGIONAL JOB GROWTH

In order to be a leading tourism destination and business gateway, the Port understands the importance of securing commitment for new homeport cruise vessels and new cruise products. The Port will foster relationships with cruise industry stakeholders while developing connections with new partners who have a shared interest in promoting tourism, economic growth and enhancing cruise passenger experience. The Port will also continue to market Pacific Northwest Cruises with partners in British Columbia.

PRIORITY ACTION 2:

INCREASE CRUISE TERMINALS EFFICIENCY AND COST EFFECTIVENESS

The Port Aviation, Maritime and Tourism divisions are dedicated to the One-Port strategy, working together to improve customer service and guest satisfaction from ship to plane and plane to ship. A multi-stakeholder team, representing cruise industry related businesses and organizations working with the Port, has been formed to collaborate on areas that will improve the passenger experience. For example, the team will address new services aimed at separating the cruise line passenger from their luggage to increase efficiencies and allow the guest to visit Seattle.

PRIORITY ACTION 3:

IMPLEMENT REGIONAL TOURISM CAMPAIGNS TO PROMOTE ALASKA CRUISES

The Port will work to raise awareness and interest about Alaska cruising from Seattle through direct contact, familiarization tours, participation in travel trade shows, sales missions, crafting webinars and creating collateral material focusing on Cruise & Stay. The Port will also stay engaged with various travel organizations and take advantage of sales mission and trade show opportunities to promote air travel and Alaska cruising to/from Seattle.

PRIORITY ACTION 4:

IDENTIFY REDEVELOPMENT OPPORTUNITIES FOR PORT CRUISE FACILITIES

The Port is responsible for two port cruise facilities: Smith Cove at Pier 91 and Bell Street Pier 66. Pier 66 anchors an 11-acre complex along Seattle's downtown waterfront. This vibrant, multi-use property is home to Norwegian Cruise Line and Oceania Cruises, which offer weekly sailings to Alaska. The Port is focused on the Pier 66 renovations to upgrade the terminal to meet the demand of new larger vessels. Additionally, a market study will be conducted to determine growth potential and market demand for additional homeport berth, as well as an assessment to identify off-season utilization and revenue opportunities at Terminal 91 and Pier 66.

2018 MILESTONES

- Secure one commitment for a new homeport or new cruise product for 2019 season
- Participate in six or more conferences and track new contacts
- Conduct direct outreach to cruise companies not serving Seattle. Track minimum of 5 new contacts

2018 MILESTONES

- Fund and grow Port Valet luggage program
- Revise traffic flow for Terminal 91 based on the 2017 traffic study on optimal transportation circulation
- Continue to test and adjust optimal passenger flow from cruise ship to transportation inclusive luggage layout and bus loading

2018 MILESTONES

- Coordinate and conduct media and travel trade familiarization tours (minimum of 15 total) promoting air travel and cruising from Seattle
- Participate in at least four travel trade shows to promote Cruise & Stay and Seattle international air service. Conduct a minimum of six Cruise & Stay training seminars
- Obtain a minimum of \$100,000 of in-kind contribution support demonstrating tourism promotion partnerships
- Obtain a minimum of \$2,500,000 in earned media value as a result of the department's international or domestic media outreach

2018 MILESTONES

- Complete Cruise Terminal Expansion Analysis



LONG RANGE PLAN

STRATEGY 3



CENTURY AGENDA

USE OUR INFLUENCE AS AN INSTITUTION TO PROMOTE SMALL BUSINESS GROWTH AND WORKFORCE DEVELOPMENT

OBJECTIVE 10

INCREASE DOLLARS SPENT WITH WOMEN AND MINORITY-OWNED BUSINESSES (WMBE) FIRMS ON CONSTRUCTION, CONSULTING, GOODS AND SERVICES TO 15 PERCENT AND TRIPLE THE NUMBER OF WMBE FIRMS DOING BUSINESS WITH THE PORT BY 2022

KEY METRICS

- Number of WMBE both aggregated and disaggregated
- Percent of Port spend on WMBE businesses both aggregated and disaggregated

PRIORITY ACTION 1:

ESTABLISH GOALS TO INCREASE WMBE UTILIZATION

The Port will establish an agency-wide process to set WMBE utilization goals, and collect and track data on the number of firms, dollar amount of spend, as well business demographics such as gender, race, ethnicity, and veteran status, holding Port divisions accountable for the collection of those data and reaching utilization goals. To effectively measure our progress towards increased contractor diversity, the Port must develop systems to capture, track and measure progress in achieving greater WMBE and Disadvantaged Business Enterprise (DBE) participation. The Port recognizes the need to disaggregate WMBE goals in order to keep track of and identify gaps in engagement with minority businesses as well as women-owned businesses respectively.

PRIORITY ACTION 2:

REVIEW AND REVISE CONTRACT PROCUREMENT

The Port will incorporate best practices in establishing approach. The Central Procurement Office (CPO) in cooperation with the Small Business Department will work cooperatively in the improvement of WMBE outreach and utilization. All Port contracts flow through CPO, as such, their involvement in creating contracting methods, tools, and processes to support WMBE utilization is necessary to success. Port divisions will work closely with CPO to review and revise procurement contracting in order to establish processes to remove barriers to entry, streamline paperwork, and support utilization goals as they relate to WMBEs.

PRIORITY ACTION 3:

ENHANCE OUTREACH AND TECHNICAL ASSISTANCE TO DEVELOP A ROBUST AND EFFECTIVE WMBE SUPPLY CHAIN

The Port recognizes the need to increase training and workshop offerings that provide WMBE and small businesses increased opportunities to work with the Port. The forecasting of future procurements enables us to provide essential information to businesses on upcoming Port opportunities and informs context of future trainings offered by Port staff. To enhance technical assistance, outreach and connectivity to opportunities, the Port will advance WMBE liaison and ombudsman roles for key Port divisions.

PRIORITY ACTION 4:

DEVELOP A MORE VERSATILE SUPPLIER DATABASE

The Port values supplier diversity. Utilization of WMBEs and DBEs is a critical part of achieving our goals. The Port will take steps to increase the visibility of WMBE firms to decision making buyers and simplify the process for small firms to become vendors, contractors and suppliers. The Port will develop a database that collects data on the gender, race, ethnicity, and veteran status of our contractors as well as business certification status in an effort to track our utilization and develop strategic initiatives. The database is designed to be a tool that will allow an internal and external line of sight into firms that are interested in doing business with the Port.

2018 MILESTONES

- Establish an annual goal setting process to support increased utilization of WMBEs to be aggregated into a Port-wide WMBE utilization goal
- Establish accountability measures and governance system ensuring processes are standardized across the Port
- Establish systems to track and evaluate WMBE utilization across Port divisions

2018 MILESTONES

- Implement key contracting elements of the Port's Diversity in Contracting policy
- Update all relevant documentation related to WMBE and DBE participation, monitoring and reporting
- Establish documentation and processes to support WMBE inclusion and contract compliance mechanisms

2018 MILESTONES

- Strengthen workshop offerings with public and private partners
- Expand depth of information available to businesses on future procurement listings and ensure timely updates
- Develop and implement WMBE liaison and ombudsman positions

2018 MILESTONES

- Work with Information & Communications Technology (ICT) to complete Supplier Database development



LONG RANGE PLAN

STRATEGY 3



CENTURY AGENDA

USE OUR INFLUENCE AS AN INSTITUTION TO PROMOTE SMALL BUSINESS GROWTH AND WORKFORCE DEVELOPMENT

OBJECTIVE 11

INCREASE THE PROPORTION OF FUNDS SPENT BY THE PORT WITH QUALIFIED SMALL BUSINESS FIRMS ON CONSTRUCTION, CONSULTING, GOODS AND SERVICES TO 40 PERCENT OF THE ELIGIBLE DOLLARS SPENT

PRIORITY ACTION 1:

EXPAND TRAINING AND ENGAGEMENT

The forecasting of future procurements will enable us to increase training and workshop offerings that provide essential connectivity to Port opportunities and increase the number of small business bidding on Port work. Working collaboratively with other government agencies and PRIME contractors will broaden the resources available to small businesses, improve their ability to bid on projects, strengthen their competitiveness and increase the number of awards.

PRIORITY ACTION 2:

FURTHER BUILD A MORE VERSATILE AND ACTIVE SUPPLIER DATABASE

With a focus on operations excellence, efforts are underway to further develop our Supplier Database. The database is designed to be a procurement tool that will allow the staff to have a line of sight into firms that are ready, able, and willing to do business with the Port. This will enable the Port to identify small businesses by skillset, providing a better understanding of the supply base across functional areas. The database will aid forecasting for Small Business Enterprise utilization and identify potential supply gaps to apply more targeted outreach and development.

PRIORITY ACTION 3:

INTEGRATE BID LEVERS INTO PROCUREMENT ACQUISITION PLANNING

In order to meet the Century Agenda, the Port is committed to structuring procurement contracts in a way that will allow more small businesses to do work with the Port as Primes or subs. Integrating bid levers into the procurement and acquisition planning process means setting more aggressive targets for different procurements such as having carve-outs, unbundling contracts, utilizing preferential scoring and inclusion plans.

KEY METRICS

- Funds spent on small businesses
- Percent of small business spend

2018 MILESTONES

- Strengthen PRIME to Sub-contractor engagement opportunities
- Advance the Center for Public Sector Contracting
- Conduct 10 PortGen training workshops

2018 MILESTONES

- Publish supplier list to internal buying audience
- Create data tracking process and conduct gap assessment

2018 MILESTONES

- Define and implement contracting methodologies to support increased utilization by procurement type



LONG RANGE PLAN

STRATEGY 3



CENTURY AGENDA

USE OUR INFLUENCE AS AN INSTITUTION TO PROMOTE SMALL BUSINESS GROWTH AND WORKFORCE DEVELOPMENT

OBJECTIVE 12

INCREASE WORKFORCE TRAINING, JOB AND BUSINESS OPPORTUNITIES FOR LOCAL COMMUNITIES IN MARITIME, TRADE, TRAVEL AND LOGISTICS

KEY METRICS

- Job/Apprenticeship Placements
- Retention/Advancement
- Priority Hire Utilization
- Career Connected Learning Participation (Employers and Students)

PRIORITY ACTION 1:

EXPAND WORKFORCE TRAINING, JOBS AND CAREER PATHWAYS IN PORT RELATED INDUSTRIES (MARITIME, TRADE, CONSTRUCTION, TRAVEL AND LOGISTICS) FOR LOCAL COMMUNITIES

The Port’s recent workforce development investments significantly expand its role and influence in key port related sectors. Our efforts encompass a portfolio of sector-based workforce development strategies and investments designed to meet the skill and workforce needs of employers in port related sectors and, at the same time, create job and career pathway opportunities for workers and job seekers, including those from target populations and economically distressed areas. Current investments focus on airport, construction and maritime sectors and support the Port’s vision of creating family wage jobs in the region by strengthening port related sectors.

PRIORITY ACTION 2:

USE PORT-OWNED FACILITIES, REAL ESTATE DEVELOPMENT, AND OTHER EFFORTS TO SUPPORT QUALITY JOBS AND SMALL BUSINESS OPPORTUNITIES

The Port is committed to creating quality jobs, small business opportunities and equity criteria for economic development projects that prioritize middle-wage industries and occupations. The Workforce Development and Small Business Long Range Plans actively pursue partnerships in key sectors to promote small business and workforce growth, as well as leverage the Port’s status as an “anchor institution” for regional economic development. The plans leverage the Port’s role as a workforce developer, employer, purchaser of goods and services, property owner and developer, and champion of port related sectors.

PRIORITY ACTION 3:

BUILD A TALENT PIPELINE FOCUSED ON YOUTH CAREER DEVELOPMENT

Employers in port related sectors have an aging workforce and find difficulty recruiting and retaining younger workers. Many youth and high school students—especially those from target populations and priority communities—lack exposure to careers in Port related sectors and work based learning opportunities. The Port will help build a talent pipeline to connect port related employers with high schools and other education and training institutions, and youth and high school students to port related careers.

2018 MILESTONES

- Launch an airport career pathways project based on research and input from partners
- Implement Regional Trades Partnership strategies to support and grow a diverse construction workforce
- Complete Maritime Career Pathways analysis and explore models for implementation
- Support the development of a Maritime Skills Center including pathways to post-secondary credentials

2018 MILESTONES

- Recommend to the Commission a Priority Hire Requirement and aspirational goal on eligible construction projects focusing on apprenticeships, diversity and preferred entry
- Create quality jobs/equity criteria for the Port’s economic development projects, with priority given to those targeting middle wage industries and occupations
- Develop plan to increase the Port’s utilization of internal apprentices consistent with the Port’s external apprenticeship goals
- Develop an implementation strategy and evaluate real estate options for maritime and food manufacturing incubators

2018 MILESTONES

- Expand current career awareness/exploration activities to middle schools to highlight well-paying job and career opportunities in port related industries
- Target and award internship opportunities to local youth, including those from disadvantaged communities, through partnerships with regional youth serving organizations
- Expand employer partnerships with career and technical education programs within the schools to strengthen career connected learning in port related industries



LONG RANGE PLAN

STRATEGY 4



CENTURY AGENDA

BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA

OBJECTIVE 13

MEET ALL INCREASED ENERGY NEEDS THROUGH CONSERVATION AND RENEWABLE SOURCES

KEY METRICS

- Annual energy use from natural gas, electricity, and liquid fuels (e.g., gasoline) in Million British Thermal Units (MBTU)

PRIORITY ACTION 1:

DEVELOP AN INTEGRATED ONE-PORT BASELINE OF ENERGY USE

The Port is largely on track to meet this objective. Both the airport and seaport are requesting the resources needed, such as staff and metering, to fully evaluate energy use on a port-wide basis. Challenges include lack of sufficient metering at multiple facilities but this is being addressed through metering initiatives at both locations. Requests have been included in the proposed 2018 budget.

PRIORITY ACTION 2:

PURSUE RENEWABLE NATURAL GAS (RNG) FROM A SOURCE IN WASHINGTON STATE OR THE PNW REGION

The Port has conducted extensive research into finding sources of RNG, and is currently holding discussions with a landfill in Pierce County to purchase RNG from the facility. However, the facility requires a 10-mile pipeline in order to connect the gas to the main natural gas pipeline, and this could cause significant delays for the project. The Port is also undertaking additional research to determine if other facilities could be available that would provide a source of RNG. Preliminary findings indicate carbon reduction from RNG could range from 50 to 70% over 2005 levels at a cost of approximately \$200 to \$400 per ton of GHG reduced.

PRIORITY ACTION 3:

DEPLOY SOLAR ENERGY PROJECTS

The Port is on track to make recommendations to Commission regarding the use of solar panels at both seaport and airport locations. The airport recently completed an analysis of solar panels at locations on airport property as well as offsite locations in eastern Washington. The Port is currently evaluating the efficacy of installing panels at these locations and comparing the costs and benefits to other carbon reduction strategies. The Port is currently installing solar panels at Fishermen's Terminal. Preliminary estimates suggest carbon reduction from photovoltaic at the airport could range from 50 to 936 tons per year, with costs ranging from \$9,000 to \$13,000 per ton of greenhouse gas (GHG) reduced.

PRIORITY ACTION 4:

IMPLEMENT ENERGY EFFICIENCY PROJECTS

The Port analyzed costs/benefits and obtained funding to complete the Stage 3 Mechanical Energy Conservation project at the airport. Similarly, the Port is installing light-emitting diode (LED) lighting at facilities throughout seaport locations. Preliminary carbon reduction estimates indicate Stage 3 Mechanical carbon reduction of approximately \$300 per ton. No carbon reduction estimates are currently available for LED lighting projects. The Port is on track to complete these energy efficiency projects over the next two years.

2018 MILESTONES

- Develop an Aviation division metering plan for the installation and networking of new and existing meters, common data storage locations, and software to access and analyze data
- Develop a Maritime division plan to install nine smart meters at Fisherman's Terminal, as recommended in the 2017 energy audit, for both tenant and Port-owned spaces
- Identify Port-wide common elements for the metering plans while tailoring them for maritime and aviation facilities, as appropriate

2018 MILESTONES

- Evaluate costs to install and operate scrubber technology, install pipelines, and total project financing to source RNG
- Continue to negotiate with developer(s), as appropriate, to bring forward a proposed agreement to senior management and Commission

2018 MILESTONES

- Implement Commission direction pertaining to Aviation Division solar projects
- Evaluate data and results from Maritime division solar demonstration project and determine the feasibility of future implementation
- Department of Commerce Grant is pending for Pier 69 solar

2018 MILESTONES

- Implement Stage 3 Mechanical Initiative at the airport
- Begin design on lighting projects for airport terminal
- Implement Fishermen's Terminal smart metering plan
- Upgrade lighting at Bell Street Parking Garage



LONG RANGE PLAN

STRATEGY 4



CENTURY AGENDA

BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA

OBJECTIVE 14

MEET OR EXCEED AGENCY REQUIREMENTS FOR STORMWATER LEAVING PORT-OWNED OR OPERATED FACILITIES

KEY METRICS

- Aviation: percentage of acres treated
- Maritime: conveyance rehabilitation- percentage of linear feet completed

PRIORITY ACTION 1:

IMPLEMENT STORMWATER UTILITY

The Stormwater Utility in the Maritime Division will collect funds from Port properties and tenants, and invest in stormwater system cleaning, assessment, repair, rehabilitation and other improvements. These activities will improve the function of the stormwater system and water quality.

PRIORITY ACTION 2:

DEVELOP GREEN STORMWATER INFRASTRUCTURE (GSI) AND RAINWATER CAPTURE

The Port will develop and implement guidance for GSI on Port properties. This guidance will be used to identify appropriate measures to comply with low impact development requirements, meet Salmon-Safe certification standards, and incorporate sustainable stormwater practices in future development.

PRIORITY ACTION 3:

COMPLETE INSPECTIONS AND MAINTENANCE OF STORMWATER POLLUTION PREVENTION FACILITIES TO ENSURE EFFECTIVENESS

The Port will proactively manage the stormwater programs to increase success of prevention practices across industrial, municipal, maritime and aviation facilities, and identify opportunities for improvement. Stormwater programs will be advanced through comprehensive illicit discharged inspections, best management practice inspections and maintenance, and Port and tenant facility inspections.

2018 MILESTONES

- Complete assessment of 75% of Maritime stormwater infrastructure
- Complete rehabilitation of 18% of Maritime stormwater infrastructure

2018 MILESTONES

- Construct rainwater harvesting system tanks as part of the ongoing the North Satellite Airport renovation; the system will be fully constructed in 2021 along with completion of the renovations
- Complete technical, regulatory and cost assessment of deep infiltration to implement GSI at the Airport
- Complete two Maritime stormwater improvement/green infrastructure projects at parks or public access areas as part of the Salmon-Safe certification program
- Identify and evaluate feasibility of as least two more Maritime stormwater improvement/green stormwater improvement/green infrastructure projects

2018 MILESTONES

- Complete stormwater pollution prevention plan inspections for 20% of Maritime properties and 30% of Airport tenant facilities
- Complete field screening of at least 20% of Maritime stormwater infrastructure to detect illicit discharges and connections
- Complete wet and dry weather illicit discharge inspection on all Airport outfalls
- Complete operation and maintenance inspections for 100% of Maritime and Airport stormwater facilities (e.g., catch-basin, detention pond, and bioswales)



LONG RANGE PLAN

STRATEGY 4



CENTURY AGENDA

BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA

OBJECTIVE 15

REDUCE AIR POLLUTANTS AND CARBON EMISSIONS, SPECIFICALLY:

- Scope 1 and 2 emissions, which are direct greenhouse gas (GHG) emissions from Port owned or controlled sources, shall be 15 percent below 2005 levels by 2020; 50 percent below 2005 levels by 2030; and carbon neutral or carbon negative by 2050
- Scope 3 emissions, which are emissions the Port has influence over, not direct control, shall be 50 percent below 2007 levels by 2030 and 80 percent below 2007 levels by 2050

KEY METRICS

- Particulate Matter (PM) 2.5 Emissions (metric tons)/(percentage reduced)
- Diesel PM Emissions (metric tons)/(percentage reduced)
- Port GHG Emissions (metric tons)/(percentage reduced)

PRIORITY ACTION 1:

PROVIDE AVIATION BIOFUELS (AIRPORT JET FUEL)

The Port is continuing to work collaboratively with airline partners to create market incentives aimed at reducing the price of aviation biofuels. In 2016, the Port finished its initial study on infrastructure needed to accommodate biofuels at Sea-Tac Airport, and in 2017 completed its initial study on potential financial options that could be used to pay down the incremental cost of aviation biofuels. In 2018, the Port will continue to collaborate with airline partners to conduct a more in-depth evaluation of those financial options.

PRIORITY ACTION 2:

SOURCE RENEWABLE NATURAL GAS

In addition to sourcing renewable natural gas (described in Objective 12), the Port is evaluating carbon and particulate emission reductions through greening our fleet. More specifically, the airport is evaluating the costs and benefits of converting the airport's fleet of compressed natural gas buses to electric. Preliminary estimates suggest carbon reduction costs of approximately \$400 per ton. The Port is on track for this work and expects to present initial findings to the Commission in Q4 2017 or Q1 2018.

PRIORITY ACTION 3:

IMPLEMENT NORTHWEST PORTS CLEAN AIR STRATEGY (NWPCAS)

A key component of this strategy is to conduct a comprehensive emissions inventory of the carbon and particulate matter associated with marine vessels operating in the Puget Sound area. This work is currently underway.

PRIORITY ACTION 4:

OPTIMIZE PORTFOLIO PARK AND HABITAT RESTORATION SITES TO SEQUESTER GHGS

As a function of the PORTfolio line of business, land assets may be leveraged to capture GHG reduction benefits, benefits (i.e., "carbon offsets") associated with carbon sequestered in soils, sediments, biota and vegetation. Riparian, emergent marsh, mudflat and shallow subtidal habitats are surprisingly effective at removing carbon from the atmosphere. These benefits can be scaled and enhanced to help lower the Port's net GHG emissions over time.

2018 MILESTONES

- Finalize financial analysis to determine options to reduce the incremental cost of fuel
- Work with business partners to develop a corporate program, as appropriate

2018 MILESTONES

- Evaluate costs to install and operate scrubber technology, install pipelines, and total project financing to source RNG
- Continue to negotiate with developer(s), as appropriate, to bring forward a proposed agreement to senior management and Commission

2018 MILESTONES

- Complete the Port Draft Fuel Efficiency Plan for Port operations
- Meet with cruise terminal operators to discuss and implement cargo handling equipment fuel efficiency plans
- Incorporate clean construction practices identified in the NWPCAS into Port design review procedures that are being updated as part of the Energy and Sustainability Resolution; these include idle reduction and stringent (Tier 4) engine emission requirements

2018 MILESTONES

- Complete baseline analysis to determine GHGs sequestered in existing PORTfolio habitat sites and parks
- Assess potential for future GHG offsets through habitat restoration and strategic land management



LONG RANGE PLAN



CENTURY AGENDA

BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA

STRATEGY 4

OBJECTIVE 16

ANCHOR THE PUGET SOUND URBAN INDUSTRIAL LAND USE TO PREVENT SPRAWL IN LESS DEVELOPED AREAS

KEY METRICS

- Remediation of contaminated sites
- Industrial land (acres)

PRIORITY ACTION 1:

IMPLEMENT CLEAN-UP PROJECTS ACROSS THE PORT

The Port has, as part of its ongoing and future operations, bought properties with a long history of heavy industrial use, most of which have some environmental contamination from past use. The goal is to clean up these properties for current and future proposed uses at the sites.

Most of these sites are being cleaned up under legal agreements with state of Washington's Department of Ecology or the US Environmental Protection Agency. The Port has completed several remediation projects and continues to make progress with remediation projects that clean up industrial land and keeps industrial businesses thriving.

A number of the sites have moved into long-term monitoring following cleanup (Terminal 91 uplands, Terminal 5, Harbor Island and Terminal 117), some are still in the investigation phase (Terminal 115 North, Terminal 91 sediments, Lower Duwamish Waterway and East Waterway) and some are in active cleanup (Lora Lakes, Terminal 30).

2018 MILESTONE

- Complete at least two regulatory milestones (e.g., complete remedial investigations, obtain regulatory approval, etc.) per year for the Port's formal cleanup sites

PRIORITY ACTION 2:

ADVOCATE FOR POLICIES AND PROJECTS THAT SUPPORT INDUSTRIAL USES

In order to meet this Century Agenda goal, the Port will work with the City of Seattle to advocate for industrial land use regulations in the City's Comprehensive Plan Update and in City land use codes that support a growing maritime business and related industries.

2018 MILESTONES

- Continue to advocate for Maritime and Maritime Industrial uses through the Mayor's Industrial Lands Advisory Panel and involvement in other City of Seattle land use and planning issues
- Advocate for the industrial base and freight mobility during the city's process to site a new arena

PRIORITY ACTION 3:

ENHANCE KEY PARTNERSHIPS

Leveraging resources with key partners is important to support the Century Agenda objective of anchoring Puget Sound urban industrial land use to prevent sprawl. Efforts are ongoing to build coalitions across the aviation and maritime industries to support urban industrial land uses.

2018 MILESTONE

- Continue to work with Washington Maritime Federation, Manufacturing Industrial Council, North Seattle Industrial Association and others to maintain coalitions to support and advocate for industrial uses



LONG RANGE PLAN

STRATEGY 4



CENTURY AGENDA

BE THE GREENEST, AND MOST ENERGY EFFICIENT PORT IN NORTH AMERICA

OBJECTIVE 17

RESTORE, CREATE, AND ENHANCE 40 ADDITIONAL ACRES OF HABITAT IN THE GREEN/DUWAMISH WATERSHED AND ELLIOTT BAY

KEY METRICS

- Acres of habitat restored, created and enhanced

PRIORITY ACTION 1:

CONSTRUCT 13 ACRES OF HABITAT AT TERMINAL 117

The Port has undertaken extensive public outreach associated with the Terminal 117 project and has received enthusiastic support from the community, resource agencies, and Tribes. At present, the design is 90% complete and local, state, and federal permits are pending. The project team is working towards breaking ground in 2018.

PRIORITY ACTION 2:

CONSTRUCT 7 ACRES OF HABITAT AT TERMINAL 25 SOUTH

The Terminal 25 South project is a valuable opportunity to establish critical habitat in the East Waterway, which is an important migratory corridor for salmon. Recently, Terminal 25 project concepts were presented to agencies and Tribes and were met very favorably.

PRIORITY ACTION 3:

CONSTRUCT ADDITIONAL HABITAT PROJECTS IN THE LOWER DUWAMISH

The Port will develop an Umbrella Mitigation Banking Agreement under which other potential restoration actions can occur and be credited appropriately. To that end, the Port has begun researching environmental and concept design work for several potential high-value restoration sites. These sites are part of a growing portfolio of important fish and wildlife restoration projects being undertaken by the Port.

PRIORITY ACTION 4:

CREATE COMMUNITY ENVIRONMENTAL STEWARDSHIP OPPORTUNITIES

The Port's environmental engagement strategy includes increasing and enhancing engagement practices to partner with surrounding communities to achieve Port sustainability and environmental goals. The Port will use the Airport Community Ecology Fund to create stewardship opportunities that benefit environmental and ecological attributes in near-Airport communities. Ongoing relationships with community partners and non-profits will be strengthened through Duwamish Valley cleanup and environmental projects.

2018 MILESTONE

- Begin construction of the Terminal 117 habitat

2018 MILESTONES

- Complete sediment sampling and analysis to support the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) coordination
- Submit permit applications

2018 MILESTONES

- Prioritize candidate sites for inclusion in a Draft Mitigation Banking Prospectus
- Submit Draft Prospectus to the US Army Corps of Engineers

2018 MILESTONES

- Distribute Airport Community Ecology Fund grants to community partners to enhance environmental stewardship in near-airport communities through projects, events, and activities
- Continue to celebrate maritime habitat restoration work along the Duwamish River at the bi-annual "Duwamish Alive!" work parties, the Duwamish River Festival, and other community events

LONG RANGE PLAN



HIGH PERFORMANCE ORGANIZATION STRATEGIES AND OBJECTIVES

STRATEGY 1 INCREASE CUSTOMER SATISFACTION

Objectives

1. Improve customer service and public engagement
2. Improve process efficiencies and effectiveness



STRATEGY 2 ELIMINATE WORKPLACE INJURIES

Objectives

3. Reduce Port preventable injury rate and severity rate
4. All managers lead safety performance



STRATEGY 3 ACT AS ONE PORT

Objectives

5. Strengthen the culture and act as an organization with a shared vision
6. Increase Port-wide common and standardized language, business processes, technology tools, and measures



STRATEGY 4 BECOME A MODEL FOR WORKPLACE EQUITY, DIVERSITY AND INCLUSION

Objectives

7. Increase management accountability for equity, diversity and inclusion
8. Increase % of employees who agree that the Port is committed to equity, diversity and inclusion
9. Increase awareness internally and actively share equity, diversity and inclusion programs externally



STRATEGY 5 FOSTER EMPLOYEE DEVELOPMENT AND LEVERAGE TALENT

Objectives

10. Develop our employees' capabilities
11. Foster awareness of Port-wide talent





LONG RANGE PLAN STRATEGY 1



HIGH PERFORMANCE ORGANIZATION INCREASE CUSTOMER SATISFACTION

OBJECTIVE 1 IMPROVE CUSTOMER SERVICE AND PUBLIC ENGAGEMENT

KEY METRICS

- Airport Service Quality (ASQ) scores
- J.D. Power Survey International Gateway Performance Scores
- Maritime Customer Satisfaction Survey Scores
- Public Awareness Scores and Response Rate

PRIORITY ACTION 1:

EXECUTE THE AIRPORT’S MULTI-LAYERED CUSTOMER SERVICE PLAN APPROACH

The airport is focused on several key priority areas to improve the Airport Service Quality scores (ASQ) score as one of the key metrics for this objective. These areas include: airport restroom cleanliness, security checkpoint queue wait times, airport signage and wayfinding master plan, and terminal technology and connectivity. In addition, the lower and upper drives customer service levels, airport taxi wait times, and J.D. Power Survey international gateway performance scores will be measured for this objective.

PRIORITY ACTION 2:

UTILIZE SYSTEM TO TRACK & IMPROVE EXTERNAL CUSTOMER SATISFACTION FOR CORPORATE PROPERTIES AND MARITIME

In order to improve customer satisfaction, the Maritime and Economic Development divisions are using a customer satisfaction measurement program to conduct surveys annually for landside and waterside customers.

PRIORITY ACTION 3:

CONDUCT PUBLIC AWARENESS & ENGAGEMENT SURVEY

To better understand public perception, the Port conducted a county-wide survey in spring 2016 that provided a baseline. In addition, focus groups conducted in summer 2016 probed the survey results and additional focus group research was conducted to inform the SAMP process. Results indicated an opportunity to improve knowledge of opportunities or activities at the Port among audiences including those new to King County, women and adults under age 50.

2018 MILESTONES

- Develop service standards for appearance, employee engagement, and staff knowledge
- Develop and adopt airport-wide customer service recognition program
- Implement airport-wide customer experience training

2018 MILESTONE

- Conduct 2018 maritime annual survey
- Analyze 2018 maritime survey results and identify areas of improvement

2018 MILESTONES

- Conduct update of 2016 county-wide public perception survey
- Analyze 2018 county-wide public perception survey and determine progress on public awareness of the Port



LONG RANGE PLAN

STRATEGY 1



HIGH PERFORMANCE ORGANIZATION

INCREASE CUSTOMER SATISFACTION

OBJECTIVE 2 IMPROVE PROCESS EFFICIENCIES & EFFECTIVENESS

KEY METRICS

- Aviation Maintenance service request on-time completion rate
- Marine Maintenance service request on-time completion rate
- Certified Lean Specialists
- CPO on-time completion rate

PRIORITY ACTION 1:

DEVELOP PROCEDURES, POLICIES, AND TOOLS TO MANAGE INTERNAL CUSTOMER SATISFACTION

Internal customer is defined as a Port department providing service to another Port department. It is critical to measure operational performance and quality across the Port through metrics as well as develop standards to measure internal customer satisfaction that support the continuous process improvements. Key internal customer service groups include Aviation Maintenance (AVM), Maritime Maintenance (MM), Human Resources & Development, Information & Communications Technology, Project Management Groups, and Central Procurement Office (CPO). AVM and MM service request on-time completion rates as well as CPO on-time completion rates are key metrics measured for this objective.

2018 MILESTONES

- Establish AVM service request on-time completion metric and target, compare actual versus target, and identify areas for improvement
- Establish MM service request on-time completion metric and target, compare actual versus target, and identify areas for improvement

PRIORITY ACTION 2:

DEVELOP INFRASTRUCTURE TO SUPPORT CONTINUOUS PROCESS IMPROVEMENT (CPI) EFFORTS AND PROMOTE A PORT CULTURE EMBRACING LEAN

The Port has challenged the organization to respond to an unprecedented rate of growth with new levels of efficiency and effectiveness. By engaging employees in reengineering processes and reducing waste, the Port of Seattle can: (1) streamline work and gain capacity to support growth and (2) use these efficiency gains to free up resources, which can be reinvested. To achieve operations excellence with a culture embracing lean, the Port is developing the infrastructure such that more lean training and education is available, more CPI projects are planned and executed, and achieve a future state where CPI is linked to performance management. The number of certified Lean specialists is a key metric for this objective.

2018 MILESTONES

- Create a formal Port of Seattle Lean Specialist certification program
- Certify five Port employees as Lean Specialists

PRIORITY ACTION 3:

CPI CONDUCTED AT KEY AREAS AT THE PORT OF SEATTLE

This action aims to develop and streamline the Port internal customer satisfaction measurement process through the initiatives of continuous process improvement, prioritizing the following key service groups and processes: Aviation Maintenance, Airport Operations, Capital Development, Marine Maintenance, Central Procurement Office (see below Priority Action), the Commission Review Process, and Cruise Operations. These initial areas will serve as a model to learn from and in the future to apply to all departments at the Port.

2018 MILESTONES

- Complete five Aviation baggage and passenger flow process improvement events
- Create visual systems in Aviation and Maritime Divisions to prioritize and track improvements

PRIORITY ACTION 4:

EXECUTE PROCUREMENT EXCELLENCE PLANS

In 2016, CPO launched a Port-wide supported effort, with consulting support, to identify opportunities to increase efficiency and effectiveness of our existing procurement processes, systems and capabilities. Over the next years, the Port is committed to implementing a set of four Procurement Principles:

Principle 1: Procurement supports our values

Principle 2: Procurement processes emphasize customer service

Principle 3: Procurement is about planning ahead and working collaboratively

Principle 4: Procurement should be grounded in rigorous and transparent decision-making.

2018 MILESTONES

- Evaluate CPO service directive and service directive modification processes and identify areas for improvement
- Pilot the Quality Jobs initiative in Q1 2018 that improves elements of the Purchasing process



LONG RANGE PLAN



HIGH PERFORMANCE ORGANIZATION

ELIMINATE WORKPLACE INJURIES

STRATEGY 2

OBJECTIVE 3

REDUCE PORT PREVENTABLE INJURY RATE AND SEVERITY RATE

KEY METRICS

- Occupational Injury Rate (OIR) – injuries occurring at work that require medical treatment
- Days Away Restricted or Transferred (DART) rate - injuries occurring at work that require days away from work
- Hazard and Near Miss reporting – a leading indicator that underscores prevention of workplace injuries

PRIORITY ACTION 1:

EXPAND SAFETY SOLUTION TEAMS THROUGHOUT THE PORT

Bolster employee engagement by providing meaningful training to ensure compliance as well as motivate safety behaviors. Provide an opportunity for employees to have a voice in safety improvement by utilizing the LEAN 8-step problem model. This model has been successfully implemented in Aviation Maintenance and Landside Operations. The team analyzes injury data, observes operations, determines point of cause, creates countermeasures, and evaluates effectiveness of countermeasures and integration of new process or methods to reduce workplace injuries. We will expand this model to other organizations in 2018. All new Safety Solution teams will participate in 8-step problem solving training.

PRIORITY ACTION 2:

MINIMIZE OCCUPATIONAL HAZARDS EARLY IN THE DESIGN PROCESS

“Safety by Design” is a concept—a way of thinking—that is translated into a process that effectively addresses hazards and risk in the design process. There is a correlation between quality management and safety through design principles. The same system design and continuous improvement processes that ensure that a product meets quality, cost and completion time expectations will also ensure that safety expectations for maintaining facilities and systems are met. Health and Safety will partner with design review teams and Project Management Team to ensure that safety specifications are adhere to, and hazards are eliminated during the design process, and work with functional maintenance staff that participate in the project scope of work and design review.

PRIORITY ACTION 3:

USE TECHNOLOGY TO LEVERAGE SAFETY ENGAGEMENT

Mobile applications that combine social technology, gamification and data-driven insights can improve employees' understanding of and engagement with workplace safety. Health and Safety has introduced several mobile apps for reporting injuries, near misses and tracking observations as well as creating online safety training requirements over the last few years. This work will expand in 2018.

2018 MILESTONE

- Develop countermeasures to reduce workplace injuries

2018 MILESTONE

- Identify potential hazards on 50% of Capital Projects and provide a story/example on how this collaborative work leads to minimizing or eliminating hazards with the ongoing maintenance of a completed project/facility

2018 MILESTONE

- Create a Safety Innovation team to explore safety technology enhancements and pilot one safety innovation concept



LONG RANGE PLAN

STRATEGY 2



HIGH PERFORMANCE ORGANIZATION

ELIMINATE WORKPLACE INJURIES

OBJECTIVE 4

ALL MANAGERS LEAD SAFETY PERFORMANCE

KEY METRICS

- Yearly Safety Evaluation scores meet or exceed 95%

PRIORITY ACTION 1:

ANNUAL SAFETY EVALUATION PROCESS

Operation workgroups/departments will participate in Annual Safety Evaluation. The evaluation measures how well organizations perform in several accident-prevention leading indicators, such as leadership, hazard and near miss reporting, job hazard analysis, safety training completion, safety committees, worksite inspections, providing transitional duty for injured workers, and leadership accountability. Any deficiencies noted in the evaluation process will be included in the next year's Safety Action Plan. The Port will complete 2017 Performance Evaluation and create a 2018 Safety Action Plan for all operation organizations.

PRIORITY ACTION 2:

BEHAVIOR BASED SAFETY – SAFETRACK OBSERVATION PROGRAM

SafeTrack is a safety observation training program that teaches employees how to observe a co-worker performing job tasks and deliver meaningful, positive reinforcement for working safely as well as recording and tracking observations. This is fundamental to enhancing the safety culture at the Port. With training completed in 2017, observation data will provide an opportunity to further address at risk behaviors. Health and Safety will champion Port wide engagement with field observations, track observations and documentation of hazard and near miss reports.

PRIORITY ACTION 3:

SAFETY PERFORMANCE RECOGNITION-SAFETY INNOVATION AWARD

The key to fostering a strong safety culture is recognizing safety improvement in work locations. Consistent feedback and team recognitions at all levels will be communicated throughout the organization. Recognizing employees for safety improvement is an extremely powerful message to the recipient, their work team and other employees through the grapevine and formal communication channels. This action builds a strong safety culture. Establish criteria of Safety Innovation and Performance Improvement Award with input from Port leaders and Safety Solution teams.

2018 MILESTONE

- 75% of organizations completing the Safety Evaluation achieve a score of 95% or higher

2018 MILESTONE

- 75 employees trained as SafeTrack Observers

2018 MILESTONE

- Select Innovation Award recipient and recognize them at the 2019 Annual Safety Leaders Meeting



LONG RANGE PLAN

STRATEGY 3



HIGH PERFORMANCE ORGANIZATION

ACT AS ONE PORT

OBJECTIVE 5

STRENGTHEN THE CULTURE AND ACT AS AN ORGANIZATION WITH A SHARED VISION

KEY METRICS

- Percentage of employees who agree that the Port of Seattle acts as an organization with a shared vision
- Percentage increase toward ideal culture

PRIORITY ACTION 1:

INCREASE PORT LEADERS' COMPETENCIES IN CREATING THE DESIRED CULTURE AND MEASURE IF WE ARE ACHIEVING IT

In 2015, we administered an organization culture inventory assessment and introduced important culture change concepts to help the Port achieve its long term aspirations, and in particular, the Century Agenda. The Port is using the results of that assessment to equip leaders with a variety of initiatives that support positive culture change. The initiatives are intended to support innovation, celebrate achievements, as well as identify opportunities for improvement and collaboration.

PRIORITY ACTION 2:

IMPROVE THE UTILIZATION OF PERFORMANCELINK WHICH FACILITATES STRATEGIC ALIGNMENT OF ORGANIZATIONAL PRIORITIES THROUGH PERFORMANCE MANAGEMENT

In 2016, the organization implemented a new performance management process which encourages all individual leader and employee goals to be linked to business objectives directly or through their manager's performance goals. This process facilitates the discussion about organizational priorities and alignment between those priorities and the individual employee's performance goals. The new performance management process also requires quarterly check-ins which allow for further opportunities to align actions. Further refinement and training is necessary for employees and the organization to realize the full potential of this resource.

PRIORITY ACTION 3:

ENGAGE ALL EMPLOYEES FOR "BE THE CHANGE"

With committed leadership, we are now working to take Be the Change, a Port-wide program to improve overall culture, to the next level and further engage employees in making improvements to Port culture.

PRIORITY ACTION 4:

ADDRESS CENTERS OF EXPERTISE STRUCTURE TO MORE EFFECTIVELY SUPPORT THE LINES OF BUSINESS

The Port of Seattle has implemented a new organizational structure in 2016 that utilizes Centers of Expertise. Centers of Expertise are teams that provide leadership, expertise, policy and strategic direction for a given area of focus. Implementing Centers of Expertise include such actions as defining their vision, mission, strategies and metrics, clarifying roles and responsibilities internally and with the operating divisions and identifying process improvement opportunities. There is a need for further refinement and Port-wide awareness of these Centers of Expertise.

2018 MILESTONES

- Administer Port-wide employee engagement survey every two years to assess effectiveness of efforts since baseline survey administered, and adjust accordingly
- Administer Port-wide Pulse survey every 6 months to provide visibility into progress and employee engagement efforts
- Develop tools and resources that encourage innovation and new ideas at the Port
- Train managers to translate and map Port goals from organizational to individual goals

2018 MILESTONES

- Upload Port-Wide Goals into ePerformance prior to annual Performance review kick off (The timing is dependent on the Commission to provide approval to the Port-wide Goals)
- Assess the percentage of Port-Wide Goals mapped and unmapped to employee Performance Objectives
- Implement tools and training to address gaps identified in mapping assessments

2018 MILESTONES

- Review "Lessons Learned" from the Incentive Pay Program and assess options of a Port-wide reward/ recognition program
- Assess Lessons Learned of the Aviation Innovation Accelerator and scale for cross-Port innovation
- Continue with annual Port-wide Innovation Awards

2018 MILESTONES

- Baseline all Centers of Expertise to ensure vision, mission, strategies and metrics, clarifying roles and responsibilities have all been fully defined and published. Some are more mature than others
- Address key findings in the 2017 Learning Needs Assessment and deliver 3 new programs/trainings to meet the needs identified by end of Q4



LONG RANGE PLAN



HIGH PERFORMANCE ORGANIZATION

ACT AS ONE PORT

STRATEGY 3

OBJECTIVE 6 INCREASE PORT-WIDE COMMON AND STANDARDIZED LANGUAGE, BUSINESS PROCESSES, TECHNOLOGY TOOLS, AND MEASURES

KEY METRICS

- Number of processes that are standardized and implemented
- Percentage of departments that have identified key processes for standardization
- Percentage performance plans that link goals to organizational goals through e-Performance system

PRIORITY ACTION 1:

IMPLEMENT OPERATIONS EXCELLENCE THROUGH STANDARDIZED PROCESSES, TOOLS, AND SYSTEMS USED PORT-WIDE

For the Port, operations excellence is defined as doing the right work with the least cost, delivered efficiently and with highest quality, safely and together. This means building quality into the process, working collaboratively across divisions, and recognizing and rewarding value added work. The Port will develop and implement a Port-Wide plan to assess number of key organizational processes to be standardized, prioritize processes and set target for number to standardize and implement per year. Additionally, the Port will establish a best practices system for the organization to use as a reference for ideas to apply to teams, projects, and processes all across the Port.

2018 MILESTONES

- Departments will define key processes that should be considered for evaluation as a Port-wide standard. Identify departments that would be key collaborators/adopters
- Further develop and publish Port branded templates (i.e. policies, standard operating procedures, etc.)
- ICT and AVM to collaborate and identify key system management processes that can be standardized
- Define Operational Excellence and assess options to promote operational excellence as a standard

PRIORITY ACTION 2:

DEVELOP A COMMON PORT-WIDE CONTINUITY OF OPERATIONS PLAN (COOP)

Consolidate Port COOP plans into a single integrated “One-Port” Continuity of Operations Plan that will maximize the Port’s ability to recover from emergencies and sustain a stable business-continuity environment for its employees, tenants, and customers.

2018 MILESTONES

- Implement COOP document storage on Port mobile devices and clear hosting location on Compass/ SharePoint
- Conduct departmental training on new COOP, implementation and use
- Validate training via exercises to affirm knowledge, skills and abilities

PRIORITY ACTION 3:

ONE-PORT EFFORT TO IMPROVE THE END-TO-END CRUISE PASSENGER EXPERIENCE

In order to achieve the Century Agenda, the Port aligned the internal strategy of achieving a “one-port” cruise customer experience through the application of continuous process improvement. In partnership with the Cruise Stakeholders team (referenced in CA Objective 9, Page 18), this action aims to streamline the end-to-end Cruise Operations process to enhance the cruise passenger experience and increase customer satisfaction (Reference in HPO Objective 1, Page 27). Additionally this priority action will improve process efficiencies (capacity, operations cost, lead time) and strengthen the collaborative support from external stakeholders and business partners.

2018 MILESTONES

- Renew Port Valet luggage program for 2018 – complimentary airline check in and luggage service for guests using Bags, Inc. Revise based on 2017 experience
- Revise traffic flow for Terminal 91, based on traffic study in the 2017 season - Study to determine optimal transportation circulation area inclusive of taxi, TNC and POV lanes
- Traffic patterns have also changed with implementation of the Port Valet program in 2017
- Continue to test and adjust optimal passenger flow from cruise to transportation
- Initial testing will occur in 2017 season, and will include luggage layout and bus loading. Both luggage volume and use of buses has changed with implementation of the Port Valet program in 2017



LONG RANGE PLAN STRATEGY 4



HIGH PERFORMANCE ORGANIZATION BECOME A MODEL FOR WORKPLACE EQUITY, DIVERSITY AND INCLUSION

OBJECTIVE 7 INCREASE MANAGEMENT ACCOUNTABILITY FOR EQUITY, DIVERSITY AND INCLUSION

PRIORITY ACTION 1: DEVELOP AND IMPLEMENT A PORT OF SEATTLE MODEL OF EQUITY, DIVERSITY AND INCLUSION

The Port of Seattle will join a number of public agencies and professional sectors in identifying a set of operating principles and practices addressing equity, diversity and inclusion. After a review of models in use by other organizations, Port leadership will engage Port employees and community partners via an advisory group in developing and finalizing a model for implementation.

KEY METRICS

- Percentage of Divisions (Aviation, Economic Development, and Maritime) and Corporate Departments that include equity, diversity and inclusion in their strategies or objectives.
- Percentage of the ED's Direct Reports/ members of the Executive Leadership Team that sponsor equity, diversity and inclusion efforts (Employee Resource Groups, Diversity and Development Council, and/or Learning Opportunities)
- Percentage of 1. all employees, 2. by race and 3. by gender who agree that the Port of Seattle is committed to equity, diversity and inclusion

2018 MILESTONE

- Integrate results of community engagement survey into Port of Seattle budget process





LONG RANGE PLAN STRATEGY 4



HIGH PERFORMANCE ORGANIZATION BECOME A MODEL FOR WORKPLACE EQUITY, DIVERSITY AND INCLUSION

OBJECTIVE 8 INCREASE THE PERCENTAGE OF EMPLOYEES WHO AGREE THAT THE PORT IS COMMITTED TO EQUITY, DIVERSITY AND INCLUSION

KEY METRICS

- Percentage of 1. all employees, 2. by race and 3. by gender who agree that the Port is committed to equity, diversity and inclusion

PRIORITY ACTION 1:

ENGAGE EMPLOYEE RESOURCE GROUPS IN CONTRIBUTING TO PORT INTERNAL AND EXTERNAL EQUITY, DIVERSITY AND INCLUSION EFFORTS

Employee Resource Groups are important representatives of segments of the Port workforce and the King County population. The Port will create forums for the voices of Employee Resource Groups to be heard and to hear directly from Port leaders. In doing so, Employee Resource Groups will contribute building an environment that encourages courageous dialogue, critical thinking, taking risks and inclusion of difference.

The Port will work with Employee Resource Groups to build relationships with King County's diverse communities. These relationships will enable the Port to understand and navigate obstacles to equity, diversity and inclusion that may inhibit the Port from realizing its mission and goals.

2018 MILESTONE

- Document and execute practices for engaging Employee Resource Groups in contributing to the Port strategy, objectives, and goals
- Develop three new strategic relationships between targeted communities of color and the Port
- Complete four Employee Resource Group/Executive Leadership Team forums on equity, diversity and inclusion at the Port





LONG RANGE PLAN STRATEGY 4



HIGH PERFORMANCE ORGANIZATION BECOME A MODEL FOR WORKPLACE EQUITY, DIVERSITY AND INCLUSION

OBJECTIVE 9 INCREASE AWARENESS INTERNALLY, AND ACTIVELY SHARE EQUITY, DIVERSITY AND INCLUSION PROGRAMS EXTERNALLY

PRIORITY ACTION 1:

TELL THE PORT'S EQUITY, DIVERSITY AND INCLUSION STORY

Public Affairs and Human Resources will create robust equity, diversity and inclusion content for the Port's internally and externally facing websites and social media. Public Affairs will continue to promote the Port with no-cost media placement and explore paid placement. Public Affairs will continue to survey the community to gauge awareness of the Port's commitment to equity, diversity and inclusion and refine communications strategy as data becomes available.

KEY METRICS

- 10% increase in articles posted in the Port e-newsletter, "Connections," related to equity, diversity and inclusion
- 10% increase of unique visits to website pages related to equity, diversity and inclusion
- 10% increase of free (e.g., news stories/ social media posts) and paid media placements (e.g., advertisements) related to equity, diversity and inclusion

2018 MILESTONES

- Conduct a survey to gauge awareness of the Port's commitment to equity, diversity and inclusion
- Establish capacity to produce Port publications in three languages other than English





LONG RANGE PLAN STRATEGY 5



HIGH PERFORMANCE ORGANIZATION FOSTER EMPLOYEE DEVELOPMENT AND LEVERAGE TALENT

OBJECTIVE 10 DEVELOP OUR EMPLOYEES' CAPABILITIES

PRIORITY ACTION 1:

DEVELOP EMPLOYEES AT ALL LEVELS OF THE ORGANIZATION TO SUPPORT GROWTH, IMPROVE ENGAGEMENT AND JOB SATISFACTION AND ENSURE ORGANIZATIONAL SUSTAINABILITY

Career satisfaction and job development are key drivers of employee engagement and impact organizational performance and sustainability. The Port will take a strategic approach to development through an organizational assessment of learning and development needs across the organization and at all levels, provide the key development opportunities identified in the assessment, continue implementation of workforce and succession planning, and provide ongoing leader and management development.

2018 MILESTONES

- Address key findings in the 2017 Learning Needs Assessment and deliver 3 new programs/trainings to meet the needs identified by end of Q4
- Develop succession plans with 3 additional executives for their leader teams as well as other key positions by end of Q4

KEY METRICS

- Percentage of executive team leaders that have documented succession plans for their leadership teams and key positions
- Percentage of employees who agree that their manager supports their job/professional development
- Percentage of employees who agree that they are confident they can achieve their job/long-term career objectives at the Port

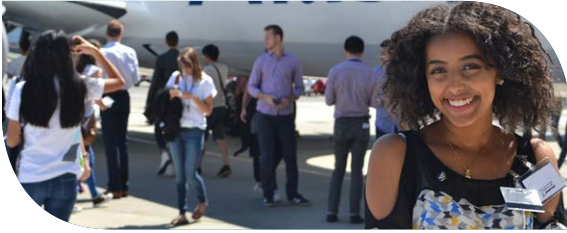
PRIORITY ACTION 2:

DEVELOP AND IMPLEMENT A LABOR RELATIONS STRATEGY TO INCREASE THE NUMBER OF REPRESENTED EMPLOYEES WITH DEVELOPMENT PLANS AND PARTICIPATE IN DEVELOPMENT ACTIVITIES

Labor Relations with Human Resources will determine a method for recording and implementing development plans. They will work to remove barriers to participation in development activities. Such a strategy would include manager and foreman education and employee outreach and education and an evaluation of results and methods.

2018 MILESTONES

- Implement development plans to support three additional units by end of Q3
- Deliver development opportunities in two innovative ways by end of Q2 to reach employees who find it challenging to attend our regularly scheduled development sessions such as location, schedule and timing



LONG RANGE PLAN

STRATEGY 5



HIGH PERFORMANCE ORGANIZATION

FOSTER EMPLOYEE DEVELOPMENT AND LEVERAGE TALENT

OBJECTIVE 11

FOSTER AWARENESS OF PORT-WIDE TALENT

PRIORITY ACTION 1:

CREATE A PORT-WIDE TALENT BANK

Leverage Human Resources information systems to make talent data more accessible. Design and implement a talent bank web-platform in which managers and employees can collaborate as well as share and exchange knowledge and skills.

PRIORITY ACTION 2:

CREATE MORE VISIBLE CAREER PATHS

There are many paths to expand employee’s career and job opportunities across and through the Port of Seattle. The Port will identify and communicate the essential functions of positions, as well as the knowledge, skills and abilities needed to be successful in those jobs. In addition, the Port will explore and make visible possible ways to prepare for them.

KEY METRICS

- Percentage of non-represented Port employees contributing to skills bank
- Percentage of job families that have visible career paths

2018 MILESTONE

- Implement talent bank web-platform by end of Q3

2018 MILESTONES

- Post, for all employee access, current job family matrices and those developed in 2018 as well as job postings by end of Q4
- Deliver one Port-wide program for employees to learn, in real time, about other Port jobs, their accountabilities, requirements and career path, such as internal career fair, job shadow opportunities and “Ask Me About My Job” day by end of Q3

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April 26, 2022



WSBLE Draft Environmental Impact Statement Comments
c/o Lauren Swift
Sound Transit
401 S. Jackson St.
Seattle, WA 98104
WSBLEDEIScomments@soundtransit.org

1904 3rd Ave #105
Seattle, WA 98101

206-343-8800

pscleanair.gov

Re: West Seattle and Ballard Link Extensions Draft Environmental Impact Statement (DEIS)

To Lauren Swift,

Thank you for the opportunity to provide comments on the West Seattle and Ballard Link Extensions Draft Environmental Impact Statement (DEIS).

The Puget Sound Clean Air Agency (Agency) jurisdiction covers King, Kitsap, Pierce, and Snohomish counties. These four counties are home to more than 4.1 million people—over half the state’s population.

Every day we work to protect public health, improve neighborhood air quality, and reduce our region’s contribution to climate change. The Agency is committed to everyone in our jurisdiction having clean, healthy air to breathe all the time, regardless of socio-economic status or geographic location.

In February 2017, the Agency’s Board adopted economy-wide greenhouse gas (GHG) emission targets of 50% below 1990 levels by 2030, and 80% below 1990 levels by 2050. These targets are based on scientific findings on the need to achieve significant emissions reductions to minimize the devastating impacts of climate change.

Since almost half of all GHG emissions in our region are from the transportation and mobile sector, the Agency strongly supports public transit and the extension of light rail to Ballard and West Seattle. Light rail extensions will help reduce vehicle single occupancy vehicle trips and reduce GHGs. In addition to contributing to GHG emissions,

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Cynthia Wang

transportation emissions also contribute to potential cancer risk and other adverse health outcomes, primarily cardiac and respiratory. Light rail can help reduce not only GHG emissions but also harmful criteria and air toxics pollution. This is particularly important for communities adjacent to major roadways. The Agency's analysis shows that communities of color and lower income neighborhoods are more likely to live along major highways.

While transportation emissions will be improved in the long-term because of light rail, in the near-term there is potential for emissions increases from construction activities. This is particularly important for harmful diesel emissions, which drive potential cancer risk from air toxics in our region. The Agency notes that draft Appendix L4.6F of the DEIS refers to encouraging the use of cleanest emission equipment. The Agency requests that you specifically detail in the final DEIS how Sound Transit will achieve the cleanest emission construction equipment and lowest construction emissions, including a requirement for the highest tier technologies for all working on this project (including contractors and subcontractors). The Agency's analysis shows the Chinatown-International District and Duwamish Valley neighborhoods (impacted by the construction of this project) already face disproportionate impacts from air pollution and have more sensitive health outcomes in the form of higher air quality-related hospitalizations.

The Agency appreciates the opportunity to comment on the draft EIS. Please contact Kathy Strange (kathys@psccleanair.gov or 206-689-4095) or Erik Saganić (eriks@psccleanair.gov or 206-689-4003) with any questions regarding these comments.

Sincerely,

A handwritten signature in cursive script that reads "Kathy Strange".

Kathy Strange

Director, Air Quality Programs

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504342 - Puget Sound Clean Air Agency Draft EIS Comment

#	Comments	Responses
1	<p>The Agency notes that draft Appendix L4.6F of the DEIS refers to encouraging the use of cleanest emission equipment. The Agency requests that you specifically detail in the final DEIS how Sound Transit will achieve the cleanest emission construction equipment and lowest construction emissions, including a requirement for the highest tier technologies for all working on this project (including contractors and subcontractors). The Agency's analysis shows the Chinatown- International District and Duwamish Valley neighborhoods (impacted by the construction of this project) already face disproportionate impacts from air pollution and have more sensitive health outcomes in the form of higher air quality-related hospitalizations.</p>	<p>Appendix L4.6D, Air Quality Best Management Practices, of the West Seattle Link Extension Final EIS, has been updated to reflect Sound Transit's standard specification for equipment, including U.S. Environmental Protection Agency Tier requirements. Construction road closures for the West Seattle Link Extension would not result in traffic detours through Duwamish Valley neighborhoods. Please see Appendix G, Environmental Justice for more information on health disparities in the project study area. A response to this comment related to the Chinatown-International District and larger Ballard Link Extension project area will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Puget Sound Regional Council

1011 WESTERN AVENUE, SUITE 500 \\\ SEATTLE, WA 98104•1035 \\\ psrc.org \\\ 206•464•7090

April 26, 2022

Lauren Swift
Central Corridor Environmental Manager
401 South Jackson Street
Seattle, WA 98104-2826

Subject: PSRC Comments on the West Seattle and Ballard Link Extensions Draft Environmental Impact Statement

Dear Ms. Swift,

The Puget Sound Regional Council appreciates the opportunity to comment on the West Seattle and Ballard Link Extensions Draft Environmental Impact Statement (DEIS). Implementation of high-capacity transit to support growing communities and provide options for regional mobility is fundamental to the success of VISION 2050, the region's integrated long-range strategy for growth management, transportation and economic development. The Regional Transportation Plan includes extension of high-capacity transit in this corridor as a vital component of enhancing mobility and providing travel choice in the region. Accordingly, PSRC has an ongoing interest in high-capacity transit system planning for the West Seattle to Ballard corridor and has been designated as a Participating Agency in this project.

VISION 2050 is centered around a Regional Growth Strategy. The Regional Growth Strategy focuses on locating growth in regional growth centers and near current and future high-capacity transit facilities. Allowing for greater employment and population growth within walking distance to high-capacity transit promotes the use of the region's transit systems and reduces the number of trips that require a personal vehicle. VISION 2050 includes a goal for 65% of the region's population growth and 75% of the region's employment growth to be located in regional growth centers and within walking distance of high-capacity transit. This regional scale goal provides a benchmark to inform local planning and continue to focus new growth as transit investments come into service.

We commend Sound Transit for their work to date on the West Seattle and Ballard Link Extensions Project and specifically the DEIS effort. The scope of the DEIS spans the many growth management, transportation, and economic development arenas for which PSRC oversees long-range regional planning. The DEIS has therefore been reviewed by agency staff

with expertise that cover these topics. The review found consistency with long-range planning documents and agreement with the methodologies used to evaluate the impacts and benefits of different stations and alignments. We appreciate that the comments PSRC previously provided on the draft Environmental Methodology Report were considered and incorporated into the evaluations in the DEIS.

For the Final EIS, we recommend several refinements or additions to the presentation of this material in the document.

TOD potential. Promotion of transit-oriented development (TOD), characterized by compact, walkable, mixed-use development, is key to implementing the objectives of VISION 2050 and the Regional Transportation Plan. Incorporating TOD in the environmental review of potential high-capacity transit station areas and alignments is an important step toward Sound Transit choosing its investments with current and future land use in mind, and in doing so, building a transit system that supports community building. As planning for the region's critical high-capacity transit system progresses, we encourage Sound Transit to continue to include TOD as a central component of its analysis, think beyond the existing land use patterns and local planning efforts, and fully consider the best ways and locations to achieve equitable TOD, a cornerstone goal of the VISION 2050 Regional Growth Strategy.

- We greatly appreciate Sound Transit's work on TOD evaluation outside of the DEIS. However, the importance of TOD is somewhat lost in the DEIS. We recommend explicitly calling out TOD and cross-referencing the TOD evaluation work completed for the West Seattle and Ballard Link Extensions to better integrate the two efforts and to ensure this important aspect of high-capacity transit planning continues to be featured in planning work, the environmental review process, and that this information is clearly visible to the Sound Transit board as it makes implementation decisions.

Travel time and transit access. PSRC recognizes the importance of comparing alignment and station alternatives in terms of the resulting light rail travel time. However, there is another dimension of travel time—door-to-door travel time for transit passengers—that would enrich the discussion on transit access in the DEIS. Many of the stations under consideration are elevated or in tunnels, which provides for grade separation, but could also add travel time for accessing or transferring at the stations. We encourage Sound Transit to ensure these stations allow for comprehensive access and easy connections by all individuals, particularly people with special transportation needs, such as older adults and people with disabilities. Doing so will help both reduce travel times for passengers and also improve fire and safety emergency preparedness.

Displacement risk. Vision 2050 includes a goal to preserve, improve, and expand housing stock in the region to provide a range of affordable, accessible, healthy, and safe housing choices to every resident. Many transit communities are home to existing low- and moderate-income households at potential risk of displacement due to increased market strength and

gentrification that may accompany transit system development. We encourage Sound Transit to continue to analyze displacement risk and include mitigation measures to ensure all people can continue to live in and have access to thriving transit communities.

- The DEIS indicates that Sound Transit researched market conditions for available residential and commercial real estate in the City of Seattle, but it was unclear if this research also included future projections for real estate availability. We encourage Sound Transit to explore future real estate projections when evaluating opportunities for residents and businesses to relocate within the project vicinity.
- The DEIS states that station alternatives in the West Seattle segment could displace housing where tenants use Housing Choice vouchers. Because the displacement of individuals with Housing Choice vouchers is unknown and could be significant, Sound Transit should work with housing partners to identify these residents and determine strategies to mitigate economic and physical displacement.
- Some of the multi-family residential buildings within the West Seattle segment study area have rent- or income-restricted units through Seattle's Multifamily Tax Exemption (MFTE) program, but these buildings will likely no longer qualify by the time the project opens in 2032. We encourage Sound Transit to look at locations where affordable housing will expire and explore strategies to extend subsidy programs for those locations.

Potential impacts to different populations and communities. The Regional Economic Strategy encourages support for small and medium sized businesses and businesses owned by marginalized communities, including BIPOC, women and immigrant-owned businesses.

- For stations within the Chinatown-International District Segment, the DEIS indicates that passenger transfers could have a benefit of increased patronage of local businesses. However, many of these are niche businesses with a specific clientele that may not be reflected in the passengers of this extension. We commend Sound Transit for the proposal to mitigate impacts to niche businesses by implementing promotion and marketing measures and encourage Sound Transit to further support businesses owned by marginalized communities that may be impacted by these projects.

In addition to the broader comments above, the following technical corrections are suggested to better reflect regional policy.

- VISION 2050's Regional Growth Strategy classifies the City of Seattle as a Metropolitan City (L4.2.3.2 and Table L4.2-1).
- With its adoption in 2020, VISION 2050 supersedes the Growing Transit Communities Strategy as the region's adopted equitable transit-oriented development strategy under RCW 81.112.350, providing important guidance for regional high-capacity transit planning and development (L4.2.3.4).

The West Seattle and Ballard Link Extensions project is an important long-range investment for our region. We commend Sound Transit again for the DEIS effort. We appreciate the opportunity to comment and participate. If you have any questions regarding our comments, please contact Erika Harris, SEPA Responsible Official, at (206) 464-6360 or eharris@psrc.org.

Sincerely,



Erika Harris, AICP
SEPA Responsible Official
Puget Sound Regional Council

cc: Kelly McGourty, Director of Transportation Planning
Ben Bakkenta, Director of Regional Planning
Gil Cerise, Program Manager
Charles Patton, Program Manager – Equity Policy and Initiatives
Sarah Gutschow, Senior Planner
Laura Benjamin, Senior Planner

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504342 - Puget Sound Regional Council Draft EIS Comment

#	Comments	Responses
1	<p>TOD potential. Promotion of transit-oriented development (TOD), characterized by compact, walkable, mixed-use development, is key to implementing the objectives of VISION 2050 and the Regional Transportation Plan. Incorporating TOD in the environmental review of potential high- capacity transit station areas and alignments is an important step toward Sound Transit choosing its investments with current and future land use in mind, and in doing so, building a transit system that supports community building. As planning for the region’s critical high-apacity transit system progresses, we encourage Sound Transit to continue to include TOD as a central component of its analysis, think beyond the existing land use patterns and local planning efforts, and fully consider the best ways and locations to achieve equitable TOD, a cornerstone goal of the VISION 2050 Regional Growth Strategy. • We greatly appreciate Sound Transit’s work on TOD evaluation outside of the DEIS. However, the importance of TOD is somewhat lost in the DEIS. We recommend explicitly calling out TOD and cross-referencing the TOD evaluation work completed for the West Seattle and Ballard Link Extensions to better integrate the two efforts and to ensure this important aspect of high-capacity transit planning continues to be featured in planning work, the environmental review process, and that this information is clearly visible to the Sound Transit board as it makes implementation decisions.</p>	<p>Please see response to CC4.2a in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.</p>
2	<p>Travel time and transit access. PSRC recognizes the importance of comparing alignment and station alternatives in terms of the resulting light rail travel time. However, there is another dimension of travel time—door-to-door travel time for transit passengers—that would enrich the discussion on transit access in the DEIS. Many of the stations under consideration are elevated or in tunnels, which provides for grade separation, but could also add travel time for accessing or transferring at the stations. We encourage Sound Transit to ensure these stations allow for comprehensive access and easy connections by all individuals, particularly people with special transportation needs, such as older adults and people with disabilities. Doing so will help both reduce travel times for passengers and also improve fire and safety emergency preparedness.</p>	<p>Please see response to CC3a in Table 7-1. See Chapter 3, Transportation, of the Final EIS where additional information on transit access and travel times for transferring between stations and accessibility related to Americans with Disabilities Act.</p>
3	<p>Displacement risk. Vision 2050 includes a goal to preserve, improve, and expand housing stock in the region to provide a range of affordable, accessible, healthy, and safe housing choices to every resident. Many transit communities are home to existing low- and moderate-income households at potential risk of displacement due to increased market strength and gentrification that may accompany transit system development. We encourage Sound Transit to continue to analyze displacement risk and include mitigation measures to ensure all people can continue to live in and have access to thriving transit communities.</p>	<p>Please see response to CC4.4b in Table 7.1. See Section 4.4 Social Resources, Community Facilities, and Neighborhoods and Appendix G, Environmental Justice, of the Final EIS for more information on low-income housing impacts and potential mitigation.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	The DEIS indicates that Sound Transit researched market conditions for available residential and commercial real estate in the City of Seattle, but it was unclear if this research also included future projections for real estate availability. We encourage Sound Transit to explore future real estate projections when evaluating opportunities for residents and businesses to relocate within the project vicinity.	Appendix L4.1 Acquisitions, Displacements, and Relocations has been updated with more current information on relocation opportunities. Sound Transit would work with each property or tenant to identify relocation opportunities to meet their needs. See Appendix K for a table and maps of planned development projects in the project area.
5	The DEIS states that station alternatives in the West Seattle segment could displace housing where tenants use Housing Choice vouchers. Because the displacement of individuals with Housing Choice vouchers is unknown and could be significant, Sound Transit should work with housing partners to identify these residents and determine strategies to mitigate economic and physical displacement.	Sound Transit would identify any tenants using housing choice vouchers during the property acquisition process. They would then work with the tenant to find suitable relocation housing that also accepted these vouchers.
6	Some of the multi-family residential buildings within the West Seattle segment study area have rent- or income-restricted units through Seattle's Multifamily Tax Exemption (MFTE) program, but these buildings will likely no longer qualify by the time the project opens in 2032. We encourage Sound Transit to look at locations where affordable housing will expire and explore strategies to extend subsidy programs for those locations.	Information about this Multifamily Tax Exemption extension has been added to Section 4.4, Social Resources, Community Facilities, and Neighborhoods of the Final EIS. It is unknown at this time if affected property owners will choose to extend their tax exemption when their current one expires.
7	Potential impacts to different populations and communities. The Regional Economic Strategy encourages support for small and medium sized businesses and businesses owned by marginalized communities, including BIPOC, women and immigrant-owned businesses.	In addition to mitigation already described, Sound Transit sets goals for participation by disadvantaged business enterprises every three years. A disadvantaged business enterprise is a for-profit small business that is at least 51% owned by individuals who are socially and economically disadvantaged. Sound Transit's goal for 2023 to 2025 is 18.17 percent of contract values. Sound Transit also coordinates with Washington State Department of Transportation on a Capacity Building Mentoring Program to support and build capacity for underrepresented firms. For more information please see Sound Transit's Economic Development website: https://www.soundtransit.org/get-to-know-us/office-civil-rights-equity-inclusion/economic-development .
8	For stations within the Chinatown-International District Segment, the DEIS indicates that passenger transfers could have a benefit of increased patronage of local businesses. However, many of these are niche businesses with a specific clientele that may not be reflected in the passengers of this extension. We commend Sound Transit for the proposal to mitigate impacts to niche businesses by implementing promotion and marketing measures and encourage Sound Transit to further support businesses owned by marginalized communities that may be impacted by these projects.	A response to this comment will be provided as part of the environmental review process for Ballard Link Extension.

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
9	In addition to the broader comments above, the following technical corrections are suggested to better reflect regional policy. • VISION 2050's Regional Growth Strategy classifies the City of Seattle as a Metropolitan City (L4.2.3.2 and Table L4.2-1). • With its adoption in 2020, VISION 2050 supersedes the Growing Transit Communities Strategy as the region's adopted equitable transit- oriented development strategy under RCW 81.112.350, providing important guidance for regional high-capacity transit planning and development (L4.2.3.4).	Appendix 4.2 Land Use, of the Final EIS, has been updated to reflect that the city of Seattle is a Metropolitan City. It has also been updated to reflect that VISION 2050 supersedes the Growing Transit Communities Strategy.

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Appendix O.2.2.4, County Agencies

Comments were received from the following County Agencies:

- Department of Natural Resources and Parks
- King County Metro

The following attachments provide these submittals in the order listed above, along with responses to comments.

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King County

Department of Natural Resources and Parks

King Street Center, KSC-NR-5700
201 South Jackson Street
Seattle, WA 98104-3855

April 25, 2022

Lauren Swift
Senior Environmental Planner
Sound Transit
401 S. Jackson Street
Seattle, WA 98104-2826

RE: West Seattle and Ballard Link Extension Project Draft Environmental Impact Statement

Dear Ms. Swift:

Thank you for the opportunity to submit comments on the Draft Environmental Impact Statement (DEIS) for the West Seattle and Ballard Link Extension Project. The King County Department of Natural Resources and Parks (DNRP) has a strong interest in the potential effects of the proposed light rail extension on DNRP infrastructure, and requests your consideration of the comments and concerns outlined below:

- Of significant concern to DNRP are the potential impacts to King County Wastewater Treatment Division (WTD) facilities, in particular the Elliott West Wet Weather Treatment Station (Elliott West WWTS) located at 545 Elliott Ave. West, and the Elliott Bay Interceptor (EBI). We are concerned that specific utility impacts are not included in the “Alternatives Evaluation” discussion in Chapter 6 of the DEIS. The Final EIS should consider an analysis of impacts to WTD’s existing and proposed infrastructure in the selection of the Preferred Alternative.
- Aboveground and belowground structures associated with the railway, and ongoing maintenance of those structures, would impact current and future aboveground and belowground structures associated with the Elliott West WWTS. The Preferred Alternative (SIB-1) of the Ballard rail extension, where the proposed tunnel exits Republican Street and curves onto Elliott Ave. West, would adversely impact the vehicle ingress/egress between Elliott Ave. West and the Elliott West WWTS. However, these impacts are not addressed in the DEIS. The inability of vehicles traveling north on Elliott Ave. West to turn left into the site due to a center reservation would hinder chemical delivery and access by other service vehicles to the site. Placement of the columns supporting the new railway in the center of Elliott Ave. West would interfere with truck turning circles into and out of the site. We request that the design accommodate both north and south bound truck access.

Lauren Swift
April 25, 2022
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- Light rail infrastructure (i.e., columns) will encroach upon King County property associated with Elliott West WWTS, specifically parcel no. 7666202035, located at 531 Elliott Ave. This site is currently being used for temporary affordable housing units but is reserved for future expansion of Elliott West WWTS. WTD is currently in the planning stages to replace and/or modify the treatment facility to meet regulatory requirements and this space may be needed to accommodate project alternatives. Permanent impacts to this area that significantly impact WTD's ability to use this area for future expansion would need to be minimized and mitigated.
- Preferred Alternative SIB-1 and Alternative SIB-3 are elevated and parallel the Interbay Golf Course just north of Wheeler St., continuing toward Dravus St. WTD's 96-inch EBI. The EBI conveys flow to West Point Treatment Plant along this same corridor, essentially the western edge of Interbay Golf Course. WTD is concerned that the proximity of the elevated guideway in these alternatives to the timber-pile-supported EBI would pose a substantial risk to the structural integrity, service life, and operation and maintenance of this crucial regional conveyance facility. Also, in our inter-agency coordination meetings Sound Transit has proposed building a temporary trestle over the pipeline to facilitate light rail construction. We are also concerned that such a temporary trestle would impede access to the pipeline for inspection and maintenance. To ensure that the EBI can provide service 24/7/365, full access must be maintained during and after construction.
- Preferred Alternative SIB-1 will generate construction vibration and may generate ongoing vibration from light rail operations. WTD is concerned that this may impact the EBI pipeline and the proposed odor control facility (OCF) near Interbay Pump Station (Interbay PS). WTD requests that Sound Transit analyze and mitigate such vibration impacts on these structures. Currently, BNSF Railway generates vibrations adjacent to a portion of the 48-inch twin force mains leaving the Interbay PS, the OCF area, and EBI. Operation of the light rail system will increase the vibration level and may compound vibration impacts. An analysis of vibration impacts should be conducted considering these two factors. The piles that would support the light rail trestle adjacent to the OCF will likely be installed on a steep slope below Interbay Golf Course. The stability of the steep slopes should be evaluated by a geotechnical engineer to ensure vibrations from the operation of light rail will not jeopardize the OCF. Additionally, pile installation of the light rail trestle is likely to disturb the old landfill site and release methane gas around the OCF. Release of the methane gas will increase explosive gas and odor in the vicinity of the OCF. Measures should be implemented to capture the escaped methane gas and reduce potential impacts to the OCF.
- Preferred tunnel alternative IBB-2a and design option IBB-2b both transition from an elevated section to a retained cut at a proposed Interbay Station and then enter a tunnel portal near 15th Ave. W. and W. Ruffner St. The proposed Interbay Station is located near the intersection of W. Bertona St. and Thorndyke Ave. W. At this location, WTD's 96-inch EBI crosses Bertona St. in a north-south direction. We are very concerned that the retained cut at Interbay Station will adversely impact the structural integrity, service

Lauren Swift
April 25, 2022
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life and operation and maintenance of this WTD facility. We understand from preliminary discussions that the clearance between proposed top of rail and the crown of the EBI is proposed to be only approximately three feet. We recommend that the design seek to increase this distance to reduce the likelihood and severity of impacts.

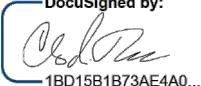
- Construction-related impacts – belowground, at the ground surface, and/or aboveground – should be identified and minimized for all WTD facilities. During and after construction, WTD must be able to maintain access to all facilities (pipes, pump stations, maintenance holes, OCFs, regulator stations, tunnels, etc.) to adequately inspect, operate, maintain, replace, repair, and rehabilitate those facilities. Settlement and vibration analysis, mitigation and monitoring should be performed at all locations where Sound Transit proposes crossing or working in proximity to or parallel to WTD facilities. In select cases, geotechnical investigations and/or modeling of impacts before construction will be required. Coordination with WTD will be necessary to determine the requirements for geotechnical investigation and monitoring on a case-by-case basis. Given the recent concrete strike that delayed many public projects, Sound Transit may want to consider the option of having a temporary concrete batch plant as part of the project's construction. Addressing it now in the environmental impact statement may assist in the implementation if it is needed.
- Sound Transit should clearly document the zone of influence for all proposed foundations and ground improvements adjacent to WTD facilities. The proximity of a WTD facility to the Sound Transit alignment that will require investigations and modeling will be dependent on the surrounding soils, the asset materials, condition and construction, and the proposed methods of construction for the Sound Transit facilities. Sound Transit should clearly identify any areas where it is proposing to protect in place or relocate King County facilities. (The attached spreadsheet identifies specific WTD facilities and DNRP's concerns regarding potential impacts to them.)
- The Superfund cleanups in the Lower Duwamish and East Waterway include extensive in-water work. The preferred route will need to cross at least one, and possibly both, of these waterways. Therefore, close coordination during siting and construction will be needed to ensure that effects on these cleanups and work on adjacent uplands—including any potential to release contaminants into these waterways—are minimized. In addition, upland areas adjacent to the Duwamish Waterway corridor (including both the East and West Waterways) are extremely limited in availability and of high enough value for habitat restoration. Efforts should be taken to minimize WSBL footprint to maximize opportunity for any potential habitat restoration areas required to meet Natural Resource Damage Act claims. The impacts of rail-operations-related stormwater runoff should be identified and minimized for all water crossings, especially those that relate to sediment cleanups that are underway or anticipated. King County would appreciate working closely with Sound Transit on these issues.

Lauren Swift
April 25, 2022
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- Finally, please note that in the “Utility” section of the DEIS, WTD is identified as a stormwater management service provider. However, this is inaccurate since WTD is a wastewater treatment and conveyance provider. In the combined Seattle system, stormwater is part of the influent collected and treated, but WTD is not a stormwater service provider.

Thank you again for the opportunity to comment on the DEIS for the West Seattle and Ballard Link Extension Project. DNRP looks forward to continuing to work closely with Sound Transit in support of this important project. If you have any questions related to WTD’s existing wastewater facilities, please contact the King County WTD Local Public Agency (LPA) Program at LPA.TEAM@kingcounty.gov.

Sincerely,


1BD15B1B73AE4A0...
Christie True
Director

Attachment

Type of Comment	Comments on WSBLE Draft EIS
General Comments	<ul style="list-style-type: none"> • Clearly identify any areas where ST is proposing to protect in place or relocate King County facilities. • Clearly identify where ST is proposing to work parallel to or cross KC infrastructure with detailed information on the work proposed adjacent to KC facilities. • Clearly identify construction impacts due to construction traffic, partial or complete road closures, installation of below or above ground temporary or permanent ground improvements, and installation of permanent facilities • Clearly identify long term operational impacts of train running parallel to or crossing KC facilities, vibration, settlement, stray current, etc. • All KC infrastructure must remain operational for the duration of construction with no impacts to the operation and performance of facilities.
Segment Specific Comments	<ul style="list-style-type: none"> • The preferred alternative (SODO-1a) and the design option (SODO-1b) propose crossing Lander St (north-south) at current grade and elevating Lander St above the light rail crossing. KC WTD has a 96" pipe running east-west along Lander St. Raising Lander St will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply. • The non-preferred alternative (SODO-2) proposes crossing above Lander St (north-south) in an elevated guideway. KC WTD has a 96" pipe running east-west along Lander St. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply. • The preferred alternative (DUW-1a), design option (DUW-1b) and non-preferred alternative (DUW-2) propose crossing (north-south) over KC WTD's Hanford Street Trunk sewer which runs east-west. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply. • The non-preferred alternative (DUW-2) is an elevated guideway and proposes crossing (east-west near Colorado Ave. S north of Spokane St) over KC WTD's 84" (Elliott Bay Interceptor Section 4 [EBI4] sewer which runs north-south). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply. • The non-preferred alternative (DUW-2) parallels KC WTD's West Seattle Force Main (30") along Parcel # 7666207905 (Port of Seattle Terminal 25). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply. • The non-preferred alternative (DUW-2) parallels the southern part of Parcel # 7666207905 (Port of Seattle Terminal 25). KC WTD has identified use of this parcel as a potential site of a future wet weather treatment station (AL02-HLK, AL04-HLKK) with appurtenant piping and support facilities. • The non-preferred alternative (DUW-2) crosses KC WTD's West Seattle Force Main (30-inch) in two locations; on Harbor Island near Klickitat Ave SW and 13th Ave SW and in the West Waterway of the Duwamish Channel. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.

- The non-preferred alternative (DUW-2) crosses into West Seattle over and adjacent to KC WTD's Chelan Regulator Station. KC WTD has identified this general area as a potential site of a future wet weather storage tank (AL01 Storage Tank. AL10-CHLKK) with appurtenant piping and support facilities. In addition to being in close proximity to the Chelan regulator station (~ 30 feet), the elevated guideway crosses over or is closely adjacent to multiple KC WTD facilities in the vicinity of the West Seattle Bridge, including the West Seattle Force Main (30"), the Renton Effluent Force Main (96"), the West Duwamish Interceptor (36"), and the West Delridge Trunk (48-54"). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC asset. General comments apply.
- The preferred alternative (DUW-1a) and design option (DUW-1b) are both elevated guideway and propose crossing (east-west near Colorado Ave. S south of Spokane St) over KC WTD's 84" pipe (Elliott Bay Interceptor Section 4 [EBI4] sewer which runs north-south). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The preferred alternative (DUW-1a) and design option (DUW-1b) are both elevated guideway and propose crossing over KC WTD's 96" pipe (Renton Effluent Force Main) and 42" pipe (West Duwamish Interceptor) just south of the West Seattle Bridge along W. Marginal Way. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- The preferred alternative (DEL-1a) and its design option (DEL-1b) proposes an elevated station between Dakota and Nevada St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DEL-2a) and its design option (DEL-2b) proposes an elevated station between Dakota and Nevada St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. Although slightly less elevated than the preferred option for both the station and guideway, the proposed alignment is the same. KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The less elevated guideway and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternatives (DEL-3, DEL-4) propose a north-south aligned elevated station between Andover and Dakota St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. Both DEL-3 and DEL-4 are elevated crossing over 26th Ave SW (DEL-4 slightly less so). KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternatives (DEL-5, DEL-6) propose a northeast-southwest aligned elevated station north of Andover and west of 27th Ave SW before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Yancy St. Both DEL-5 and DEL-6 are elevated crossing over 26th Ave SW (DEL-6 slightly less so). KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.

- Alternative's CID-1a and CID-1b propose a new International District/Chinatown Station under 4th Ave S near S King St (1a is shallow, 1b is deep). KC WTD's Elliott Bay Interceptor (EBI - 102") runs north-south in a tunnel beginning at 2nd Ave S and King St. Also, one block further west (1st Ave S and King St) is the piping (42") feeding the King St. CSO facility. While it is a couple of blocks away, there is a concern about the impacts of station construction (pile installation and subsequent vibrations) due to the age of these KC WTD facilities and the surrounding poor soils. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- Alternative's CID-2a and CID-2b propose a new International District/Chinatown Station under 5th Ave S near S King St (2a is shallow, 2b is deep). KC WTD's Elliott Bay Interceptor (EBI - 102") runs north-south in a tunnel beginning at 2nd Ave S and King St. Also, one block further west (1st Ave S and King St) is the piping (42") feeding the King St. CSO facility. While it is a couple of blocks away, there is a concern about the impacts of station construction (pile installation and subsequent vibrations) due to the age of these KC WTD facilities and the surrounding poor soils. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- The preferred alternative (DT-1) tunnels under Westlake Ave crossing 7th Ave. KC WTD's Central Trunk (60") runs under 7th Ave as it crosses Westlake Ave. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DT-2) tunnels just west of Westlake Ave crossing 7th Ave and Virginia St. KC WTD's Central Trunk (60") runs under 7th Ave and Virginia St. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The preferred alternative (DT-1) tunnels under Harrison St crossing Dexter Ave. The South Lake Union station is proposed underground near the intersection of Harrison St and Dexter Ave. KC WTD's Central Trunk (60") runs under Dexter Ave as it crosses Harrison St. The tunnel and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DT-2) tunnels under Republican St in between Westlake and Terry Aves. KC WTD's Lake Union Trunk (72") runs under Republican St. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DT-2) tunnels under Mercer St near 8th Ave W. KC WTD's Lake Union to Mercer Tunnel connector (72") runs under 8th Ave W. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DT-2) tunnels just north of and parallel to Mercer St crossing Dexter Ave. KC WTD's Mercer Tunnel (176") and Central Trunk (84") runs under Dexter Ave. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The preferred alternative (DT-1) tunnels under 5th Ave just north of Harrison St. KC WTD's Lake Union Trunk (72") runs under 5th Ave crossing in a northeast-southwest direction. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The non-preferred alternative (DT-2) tunnels just north of and parallel to Mercer St from Dexter Ave to 4th Ave W (where it exits the portal and begins transitioning to an elevated structure). There is a station proposed (Seattle Center) at Mercer Street between 1st Ave N and Warren Ave. In between 3rd Ave N and 3rd Ave W (which includes the Seattle Center

	<p>station) the alignment is shown along Mercer St. KC WTD's Mercer Tunnel (176") runs under Mercer St in between 7th Ave N and the Elliott West WWTS. The tunnel and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.</p> <ul style="list-style-type: none"> • The preferred alternative (SIB-1) and design alternative (SIB-2) are elevated as they cross Elliott Ave W after it exits the portal at Republican St. KC WTD owns and operates a wet weather treatment facility (Elliott West WTS - 545 Elliott Ave W) which is fed from the east by the Mercer Tunnel (178") crossing under Elliott Ave W. Some of the columns for the elevated guideway are proposed to be placed on EWWTS property. KC WTD is currently in planning stages to replace and/or modify the EWWTS. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of current KC assets as well as restrict potential alternatives for the future treatment facility. Placement of the columns supporting the new railway in the center of Elliott Ave W impacts the vehicle ingress / egress to the facility; vehicles traveling north on Elliott Ave W would be unable to turn left into the site. General comments apply. • The preferred alternative (SIB-1) is elevated and crosses over Elliott Ave W near Lee St and parallels the BNSF corridor as it continues towards Dravus St. KC WTD owns and operates a lift station (Interbay - 1601 W Garfield St) which is fed from the south by the Elliott Bay Interceptor (102") which parallels BNSF to the east. Dual 36" force mains then emanate from Interbay and proceed north to discharge back into the Elliott Bay Interceptor (96") at the southern edge of the Interbay Golf Course. The EBI then continues north towards Dravus St. The elevated guideway is relatively close to the EBI (~ 60') roughly 1,000 feet south of the Interbay Station and is shown directly crossing over the northeast corner of Interbay Station and then coming close to the dual 36" force mains near the Magnolia Ave bridge. After a slight diversion away from the dual force mains, the elevated guideway then parallels the dual force mains and the EBI on the western edge of the golf course. The close proximity of the guideway to the Interbay pump station, dual force mains (including odor treatment at the discharge end) and the EBI pose substantial risk and will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on these KC facilities including current KC WTD plans to rehabilitate (likely prior to the Ballard Link extension) the dual force mains, odor treatment facility and the EBI extending along the western edge of the Interbay Golf Course. In coordination meetings, Sound Transit has proposed building a temporary trestle over the pipeline to facilitate construction that could possibly impede access to the pipeline for inspection and maintenance. Unfettered access to the pipeline will need to be maintained during construction. Additionally, the potential impacts (vibration, etc.) to the EBI will need to be analyzed to confirm that structural integrity is maintained during and following construction. General comments apply. • Alternative SIB-3 is elevated and parallels the Interbay golf course just north of Wheeler continuing toward Dravus Street. KC WTD's Elliott Bay Interceptor (96") is contained in this same corridor (western edge of Interbay golf course). The close proximity of the elevated guideway to the EBI poses substantial risk and will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. In coordination meetings, Sound Transit has proposed building a temporary trestle over the pipeline to facilitate construction that could possibly impede access to the pipeline for inspection and maintenance. Unfettered access to the pipeline will need to be maintained during construction. Additionally, the potential impacts (vibration, etc.) to the EBI will need to be analyzed to confirm that structural integrity is maintained during and following construction. General comments apply.
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- The preferred alternative IBB-1a is elevated and crosses Bertona St just east of the BNSF corridor in a northeast-southwest direction. KC WTD's Elliott Bay Interceptor (96") crosses Bertona St in a north-south direction. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. General comments apply.
- The preferred alternative IBB-1a and design option IBB-1b are elevated and cross (north-south) W. Nickerson St near 13th Ave W. KC WTD's North Interceptor (138") runs underneath W. Nickerson St in an east-west direction. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The preferred alternative IBB-1a and design option IBB-1b are elevated and cross (north-south) NW 45th St over 14th Ave NW. KC Ballard Trunk (54") runs east-west along the northern edge of NW 45 St. Also, the Ballard Trunk overflow (72") is a wood stave pipe that runs north-south along 11th Ave NW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- The preferred tunnel alternative IBB-2a and design option IBB-2b both transition from an elevated section to a retained cut at the proposed Interbay Station and then enter a tunnel portal near 15th Ave W and W Ruffner St. The Interbay Station is located near the intersection of W Bertona St and Thorndyke Ave W. At this location, KC WTD's Elliott Bay Interceptor (96") crosses Bertona St in a north-south direction. The retained cut Interbay Station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility since the clearance between proposed top of rail and the crown of the EBI will be reduced to approximately 3 feet based on preliminary discussions between KC WTD and ST. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. General comments apply.
- The preferred tunnel alternative IBB-2a and design option IBB-2b cross (north-south) W. Nickerson St in between 14th Ave W and 15th Ave W. KC WTD's North Interceptor (138") runs underneath W. Nickerson St in a northeast-southwest direction. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.
- The preferred tunnel alternative IBB-2a and design option IBB-2b cross (north-south) NW 45th St. IBB-2b crosses NW 45th St near 15th Ave W while IBB-2a crosses NW 45 St under 14th Ave W. KC WTD's Ballard Trunk (54") runs east-west along the northern edge of NW 45 St. Also, the Ballard Trunk overflow (72") is a wood stave pipe that runs north-south along 11th Ave NW. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- Alternative IBB-3 crosses (north-south) W. Emerson St just west of 15th Ave W. KC WTD's North Interceptor (138") runs underneath W. Emerson St while the Elliott Bay Interceptor (96") parallels the guideway to the immediate west at the crossing. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.
- Alternative IBB-3 crosses (north-south) NW 45th St just west of 15th Ave W. KC WTD's Ballard Trunk (54") runs underneath the northern edge of NW 45th St. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.

	<ul style="list-style-type: none">• Presumably the Sound Transit will inspect and maintain the trestle using the access around the OCF and EBI-8. This access will coordinate with WTD's maintenance access to the OCF and the EBI-8 to minimize the impact. Comments on the access impact will be prepared when WTD reviews Sound Transit trestle design in this area.• KC WTD owns parcel numbers 7666201675 (ST ID: BD20016), 2771108091 (ST ID: BD20018), 7666202060 (ST ID: BD20014) & 7666202035 (ST ID: BD20012). ST needs to coordinate with KC WTD to confirm that alignment does not interfere with current and future plans for the properties.• KC WTD owns parcel number 7666703966 (ST ROW ID# WS22002). ST needs to coordinate with KC WTD to confirm that alignment does not interfere with current and future plans for this property.
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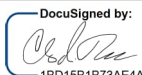
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To contact us by email send messages to: ohansen@kingcounty.gov

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Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: Communication ID: 505319 - King County Department of Natural Resources and Parks Draft EIS Comment

#	Comments	Responses
1	<p>Of significant concern to DNRP are the potential impacts to King County Wastewater Treatment Division (WTD) facilities, in particular the Elliott West Wet Weather Treatment Station (Elliott West WWTS) located at 545 Elliott Ave. West, and the Elliott Bay Interceptor (EBI). We are concerned that specific utility impacts are not included in the "Alternatives Evaluation" discussion in Chapter 6 of the DEIS. The Final EIS should consider an analysis of impacts to WTD's existing and proposed infrastructure in the selection of the Preferred Alternative.</p>	<p>Utility conflicts are discussed in Section 4.15, Utilities, and Appendix L4.15, Utilities, of the West Seattle Link Extension Final EIS. Chapter 6, Alternatives Evaluation, is focused on how the project alternatives meet the project purpose and need, as well as key impact differences and potential significant impacts that might not be fully mitigated. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
2	<p>Aboveground and belowground structures associated with the railway, and ongoing maintenance of those structures, would impact current and future aboveground and belowground structures associated with the Elliott West WWTS. The Preferred Alternative (SIB-1) of the Ballard rail extension, where the proposed tunnel exits Republican Street and curves onto Elliott Ave. West, would adversely impact the vehicle ingress/egress between Elliott Ave. West and the Elliott West WWTS. However, these impacts are not addressed in the DEIS. The inability of vehicles traveling north on Elliott Ave. West to turn left into the site due to a center reservation would hinder chemical delivery and access by other service vehicles to the site. Placement of the columns supporting the new railway in the center of Elliott Ave. West would interfere with truck turning circles into and out of the site. We request that the design accommodate both north and south bound truck access. • Light rail infrastructure (i.e., columns) will encroach upon King County property associated with Elliott West WWTS, specifically parcel no. 7666202035, located at 531 Elliott Ave. This site is currently being used for temporary affordable housing units but is reserved for future expansion of Elliott West WWTS. WTD is currently in the planning stages to replace and/or modify the treatment facility to meet regulatory requirements and this space may be needed to accommodate project alternatives. Permanent impacts to this area that significantly impact WTD's ability to use this area for future expansion would need to be minimized and mitigated.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
3	<p>Preferred Alternative SIB-1 and Alternative SIB-3 are elevated and parallel the Interbay Golf Course just north of Wheeler St., continuing toward Dravus St. WTD's 96-inch EBI. The EBI conveys flow to West Point Treatment Plant along this same corridor, essentially the western edge of Interbay Golf Course. WTD is concerned that the proximity of the elevated guideway in these alternatives to the timber-pile-supported EBI would pose a substantial risk to the structural integrity, service life, and operation and maintenance of this crucial regional conveyance facility. Also, in our inter-agency coordination meetings Sound Transit has proposed building a temporary trestle over the pipeline to facilitate light rail construction. We are also concerned that such a temporary trestle would impede access to the pipeline for inspection and maintenance. To ensure that the EBI can provide service 24/7/365, full access must be maintained during and after construction.</p> <p>Preferred Alternative SIB- 1 will generate construction vibration and may generate on-going vibration from light rail operations. WTD is concerned that this may impact the EBI pipeline and the proposed odor control facility (OCF) near Interbay Pump Station (Interbay PS). WTD requests that Sound Transit analyze and mitigate such vibration impacts on these structures. Currently, BNSF Railway generates vibrations adjacent to a portion of the 48-inch twin force mains leaving the Interbay PS, the OCF area, and EBI. Operation of the light rail system will increase the vibration level and may compound vibration impacts. An analysis of vibration impacts should be conducted considering these two factors. The piles that would support the light rail trestle adjacent to the OCF will likely be installed on a steep slope below Interbay Golf Course. The stability of the steep slopes should be evaluated by a geotechnical engineer to ensure vibrations from the operation of light rail will not jeopardize the OCF. Additionally, pile installation of the light rail trestle is likely to disturb the old landfill site and release methane gas around the OCF. Release of the methane gas will increase explosive gas and odor in the vicinity of the OCF. Measures should be implemented to capture the escaped methane gas and reduce potential impacts to the OCF.</p> <p>Preferred tunnel alternative IBB-2a and design option IBB-2b both transition from an elevated section to a retained cut at a proposed Interbay Station and then enter a tunnel portal near 15th Ave. w. and W. Ruffner St. The proposed Interbay Station is located near the intersection of w. Bertona St. and Thorndyke Ave. W. At this location, WTD's 96-inch EBI crosses Bertona St. in a north-south direction. We are very concerned that the retained cut at Interbay Station will adversely impact the structural integrity, service life and operation and maintenance of this WTD facility. We understand from preliminary discussions that the clearance between proposed top of rail and the crown of the EBI is proposed to be only approximately three feet. We recommend that the design seek to increase this distance to reduce the likelihood and severity of impacts.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>Construction-related impacts - belowground, at the ground surface, and/or aboveground - should be identified and minimized for all WTD facilities. During and after construction, WTD must be able to maintain access to all facilities (pipes, pump stations, maintenance holes, OCFs, regulator stations, tunnels, etc.) to adequately inspect, operate, maintain, replace, repair, and rehabilitate those facilities. Settlement and vibration analysis, mitigation and monitoring should be performed at all locations where Sound Transit proposes crossing or working in proximity to or parallel to WTD facilities. In select cases, geotechnical investigations and/or modeling of impacts before construction will be required. Coordination with WTD will be necessary to determine the requirements for geotechnical investigation and monitoring on a case-by-case basis. Given the recent concrete strike that delayed many public projects, Sound Transit may want to consider the option of having a temporary concrete batch plant as part of the project's construction. Addressing it now in the environmental impact statement may assist in the implementation if it is needed.</p>	<p>Please see Section 4.15, Utilities, and Appendix L4.15, Utilities, of the Final EIS for information on utility conflicts identified for major utilities, as defined in Section 4.15. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
5	<p>Sound Transit should clearly document the zone of influence for all proposed foundations and ground improvements adjacent to WTD facilities. The proximity of a WTD facility to the Sound Transit alignment that will require investigations and modeling will be dependent on the surrounding soils, the asset materials, condition and construction, and the proposed methods of construction for the Sound Transit facilities. Sound Transit should clearly identify any areas where it is proposing to protect in place or relocate King County facilities. (The attached spreadsheet identifies specific WTD facilities and DNRP's concerns regarding potential impacts to them.)</p>	<p>Please see response to comment 5. Sound Transit has continued to coordinate with King County Wastewater Treatment Division as design has progressed and will continue to do so through final design and construction.</p>
6	<p>The Superfund cleanups in the Lower Duwamish and East Waterway include extensive in-water work. The preferred route will need to cross at least one, and possibly both, of these waterways. Therefore, close coordination during siting and construction will be needed to ensure that effects on these cleanups and work on adjacent uplands-including any potential to release contaminants into these waterways-are minimized. In addition, upland areas adjacent to the Duwamish Waterway corridor (including both the East and West Waterways) are extremely limited in availability and of high enough value for habitat restoration. Efforts should be taken to minimize WSBLE footprint to maximize opportunity for any potential habitat restoration areas required to meet Natural Resource Damage Act claims. The impacts of rail-operations-related stormwater runoff should be identified and minimized for all water crossings, especially those that relate to sediment cleanups that are underway or anticipated. King County would appreciate working closely with Sound Transit on these issues.</p>	<p>Comment noted. Please see Section 4.12, Hazardous Materials, of the Final EIS for more information on potential impacts to Superfund sites in the study area. See Section 4.9, Ecosystems, and Appendix N.4, Ecosystems Technical Report, of the Final EIS for more information on existing and proposed habitat restoration sites in the study area, and potential effects to these sites. See Section 4.8, Water Resources, of the Final EIS for more information on stormwater management for the project.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
7	Finally, please note that in the "Utility" section of the DEIS, WTD is identified as a stormwater management service provider. However, this is inaccurate since WTD is a wastewater treatment and conveyance provider. In the combined Seattle system, stormwater is part of the influent collected and treated, but WTD is not a stormwater service provider.	King County Wastewater Treatment Division has been removed as a stormwater provider in Section 4.15, Utilities, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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Type of Comment	ID	Comments on WSBL Draft EIS	Response
General Comments	1	Clearly identify any areas where ST is proposing to protect in place or relocate King County facilities.	Sound Transit will share Utility plans with DNRP as design advances.
	2	Clearly identify where ST is proposing to work parallel to or cross KC infrastructure with detailed information on the work proposed adjacent to KC facilities.	Sound Transit will share Utility plans with DNRP as design advances.
	3	Clearly identify construction impacts due to construction traffic, partial or complete road closures, installation of below or above ground temporary or permanent ground improvements, and installation of permanent facilities	Construction impacts are identified for all resources in this Final EIS based on conceptual design. Additional coordination will occur with KC DNRP regarding specific impacts to their facilities as design advances.
	4	Clearly identify long term operational impacts of train running parallel to or crossing KC facilities, vibration, settlement, stray current, etc.	Sound Transit will coordinate with KC DNRP as design advances regarding this types of potential impacts. No impacts of these nature have been identified based on conceptual design. Please see Section 4.15, Utilities, of the Final EIS for more information on potential utility impacts and proposed mitigation.
	5	All KC infrastructure must remain operational for the duration of construction with no impacts to the operation and performance of facilities.	Comment noted. This will be resolved through resolution of segment specific comments below.
Segment Specific Comments	6	The preferred alternative (SODO-1a) and the design option (SODO-1b) propose crossing Lander St (north-south) at current grade and elevating Lander St above the light rail crossing. KC WTD has a 96" pipe running east-west along Lander St. Raising Lander St will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict has been incorporated in the Final EIS as appropriate. Sound Transit has and will continue to coordinate with King County on utility relocations and work near utilities.
Segment Specific Comments	7	The non-preferred alternative (SODO-2) proposes crossing above Lander St (north-south) in an elevated guideway. KC WTD has a 96" pipe running east-west along Lander St. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	The proposed design for Alternative SODO-2 would be close to this line but would not be in direct contact so has not been identified as a conflict. If this alternative is selected as the project to be built, Sound Transit would coordinate with KC DNRP regarding protection of this utility.
Segment Specific Comments	8	The preferred alternative (DUW-1a), design option (DUW-1b) and non-preferred alternative (DUW-2) propose crossing (north-south) over KC WTD's Hanford Street Trunk sewer which runs east-west. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	The proposed design for these alternatives would be close to this line but would not be in direct contact so has not been identified as a conflict. Sound Transit will coordinate with KC DNRP regarding protection of this utility for the alternative selected as the project to be built.
Segment Specific Comments	9	The non-preferred alternative (DUW-2) is an elevated guideway and proposes crossing (east-west near Colorado Ave. S north of Spokane St) over KC WTD's 84" (Elliott Bay Interceptor Section 4 [EBI4] sewer which runs north-south). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict has been incorporated in the Final EIS for Alternative DUW-2.
Segment Specific Comments	10	The non-preferred alternative (DUW-2) parallels KC WTD's West Seattle Force Main (30") along Parcel # 7666207905 (Port of Seattle Terminal 25). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict has been incorporated in the Final EIS for Alternative DUW-2.
Segment Specific Comments	11	The non-preferred alternative (DUW-2) parallels the southern part of Parcel # 7666207905 (Port of Seattle Terminal 25). KC WTD has identified use of this parcel as a potential site of a future wet weather treatment station (AL02-HLK, AL04- HLKK) with appurtenant piping and support facilities.	The Final EIS identifies conflicts with existing or planned utilities. If Alternative DUW-2 is selected as the project to be built and KC DNRP advances design of a facility on this parcel, Sound Transit would coordinate with KC DNRP to avoid conflicts to this facility.
Segment Specific Comments	12	The non-preferred alternative (DUW-2) crosses KC WTD's West Seattle Force Main (30-inch) in two locations; on Harbor Island near Klickitat Ave SW and 13th Ave SW and in the West Waterway of the Duwamish Channel. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict has been incorporated in the Final EIS for Alternative DUW-2.

Type of Comment	ID	Comments on WSBL Draft EIS	Response
Segment Specific Comments	13	The non-preferred alternative (DUW-2) crosses into West Seattle over and adjacent to KC WTD's Chelan Regulator Station. KC WTD has identified this general area as a potential site of a future wet weather storage tank (AL01 Storage Tank. AL10- CHLKK) with appurtenant piping and support facilities. In addition to being in close proximity to the Chelan regulator station (~ 30 feet), the elevated guideway crosses over or is closely adjacent to multiple KC WTD facilities in the vicinity of the West Seattle Bridge, including the West Seattle Force Main (30"), the Renton Effluent Force Main (96"), the West Duwamish Interceptor (36"), and the West Delridge Trunk (48-54"). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC asset. General comments apply.	Conflicts with these utilities have been incorporated in the Final EIS for Alternative DUW-2 as appropriate.
Segment Specific Comments	14	The preferred alternative (DUW-1a) and design option (DUW-1b) are both elevated guideway and propose crossing (east- west near Colorado Ave. S south of Spokane St) over KC WTD's 84" pipe (Elliott Bay Interceptor Section 4 [EBI4] sewer which runs north-south). The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict has been incorporated in the Final EIS for Preferred Alternative DUW-1a and Option DUW-1b.
Segment Specific Comments	15	The preferred alternative (DUW-1a) and design option (DUW-1b) are both elevated guideway and propose crossing over KC WTD's 96" pipe (Renton Effluent Force Main) and 42" pipe (West Duwamish Interceptor) just south of the West Seattle Bridge along W. Marginal Way. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	This conflict is identified in the Final EIS and these utilities would be protected in place.
Segment Specific Comments	16	The preferred alternative (DEL-1a) and its design option (DEL-1b) proposes an elevated station between Dakota and Nevada St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict is identified in the Final EIS and this utility would need to be relocated for these alternatives.
Segment Specific Comments	17	The non-preferred alternative (DEL-2a) and its design option (DEL-2b) proposes an elevated station between Dakota and Nevada St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. Although slightly less elevated than the preferred option for both the station and guideway, the proposed alignment is the same. KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The less elevated guideway and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict is identified in the Final EIS and this utility would need to be relocated for these alternatives.
Segment Specific Comments	18	The non-preferred alternatives (DEL-3, DEL-4) propose a north-south aligned elevated station between Andover and Dakota St before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Genesee St. Both DEL-3 and DEL-4 are elevated crossing over 26th Ave SW (DEL-4 slightly less so). KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict is identified in the Final EIS and this utility would be protected in place for these alternatives.
Segment Specific Comments	19	The non-preferred alternatives (DEL-5, DEL-6) propose a northeast-southwest aligned elevated station north of Andover and west of 27th Ave SW before crossing over 26th Ave SW in a northeast-southwest direction and then aligning in an east-west direction along Yancy St. Both DEL-5 and DEL-6 are elevated crossing over 26th Ave SW (DEL-6 slightly less so). KC WTD's West Delridge interceptor (24") runs north-south along 26th Ave SW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	This conflict is identified in the Final EIS and this utility would need to be relocated for these alternatives.

Type of Comment	ID	Comments on WSBL Draft EIS	Response
Segment Specific Comments	20	Alternative's CID-1a and CID-1b propose a new International District/Chinatown Station under 4th Ave S near S King St (1a is shallow, 1b is deep). KC WTD's Elliott Bay Interceptor (EBI - 102") runs north-south in a tunnel beginning at 2nd Ave S and King St. Also, one block further west (1st Ave S and King St) is the piping (42") feeding the King St. CSO facility. While it is a couple of blocks away, there is a concern about the impacts of station construction (pile installation and subsequent vibrations) due to the age of these KC WTD facilities and the surrounding poor soils. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	21	Alternative's CID-2a and CID-2b propose a new International District/Chinatown Station under 5th Ave S near S King St (2a is shallow, 2b is deep). KC WTD's Elliott Bay Interceptor (EBI - 102") runs north-south in a tunnel beginning at 2nd Ave S and King St. Also, one block further west (1st Ave S and King St) is the piping (42") feeding the King St. CSO facility. While it is a couple of blocks away, there is a concern about the impacts of station construction (pile installation and subsequent vibrations) due to the age of these KC WTD facilities and the surrounding poor soils. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	22	The preferred alternative (DT-1) tunnels under Westlake Ave crossing 7th Ave. KC WTD's Central Trunk (60") runs under 7th Ave as it crosses Westlake Ave. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	23	The non-preferred alternative (DT-2) tunnels just west of Westlake Ave crossing 7th Ave and Virginia St. KC WTD's Central Trunk (60") runs under 7th Ave and Virginia St. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	24	The preferred alternative (DT-1) tunnels under Harrison St crossing Dexter Ave. The South Lake Union station is proposed underground near the intersection of Harrison St and Dexter Ave. KC WTD's Central Trunk (60") runs under Dexter Ave as it crosses Harrison St. The tunnel and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	25	The non-preferred alternative (DT-2) tunnels under Republican St in between Westlake and Terry Aves. KC WTD's Lake Union Trunk (72") runs under Republican St. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	26	The non-preferred alternative (DT-2) tunnels under Mercer St near 8th Ave W. KC WTD's Lake Union to Mercer Tunnel connector (72") runs under 8th Ave W. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	27	The non-preferred alternative (DT-2) tunnels just north of and parallel to Mercer St crossing Dexter Ave. KC WTD's Mercer Tunnel (176") and Central Trunk (84") runs under Dexter Ave. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	28	The preferred alternative (DT-1) tunnels under 5th Ave just north of Harrison St. KC WTD's Lake Union Trunk (72") runs under 5th Ave crossing in a northeast-southwest direction. The tunnel will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	29	The non-preferred alternative (DT-2) tunnels just north of and parallel to Mercer St from Dexter Ave to 4th Ave W (where it exits the portal and begins transitioning to an elevated structure). There is a station proposed (Seattle Center) at Mercer Street between 1st Ave N and Warren Ave. In between 3rd Ave N and 3rd Ave W (which includes the Seattle Center station) the alignment is shown along Mercer St. KC WTD's Mercer Tunnel (176") runs under Mercer St in between 7th Ave N and the Elliott West WWTS. The tunnel and station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	30	The preferred alternative (SIB-1) and design alternative (SIB-2) are elevated as they cross Elliott Ave W after it exits the portal at Republican St. KC WTD owns and operates a wet weather treatment facility (Elliot West WTS - 545 Elliott Ave W) which is fed from the east by the Mercer Tunnel (178") crossing under Elliott Ave W. Some of the columns for the elevated guideway are proposed to be placed on EWWTS property. KC WTD is currently in planning stages to replace and/or modify the EWWTS. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of current KC assets as well as restrict potential alternatives for the future treatment facility. Placement of the columns supporting the new railway in the center of Elliott Ave W impacts the vehicle ingress / egress to the facility; vehicles traveling north on Elliott Ave W would be unable to turn left into the site. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

Type of Comment	ID	Comments on WSBE Draft EIS	Response
Segment Specific Comments	31	<p>The preferred alternative (SIB-1) is elevated and crosses over Elliott Ave W near Lee St and parallels the BNSF corridor as it continues towards Dravus St. KC WTD owns and operates a lift station (Interbay - 1601 W Garfield St) which is fed from the south by the Elliott Bay Interceptor (102") which parallels BNSF to the east. Dual 36" force mains then emanate from Interbay and proceed north to discharge back into the Elliott Bay Interceptor (96") at the southern edge of the Interbay Golf Course. The EBI then continues north towards Dravus St. The elevated guideway is relatively close to the EBI (~ 60') roughly 1,000 feet south of the Interbay Station and is shown directly crossing over the northeast corner of Interbay Station and then coming close to the dual 36" force mains near the Magnolia Ave bridge. After a slight diversion away from the dual force mains, the elevated guideway then parallels the dual force mains and the EBI on the western edge of the golf course. The close proximity of the guideway to the Interbay pump station, dual force mains (including odor treatment at the discharge end) and the EBI pose substantial risk and will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on these KC facilities including current KC WTD plans to rehabilitate (likely prior to the Ballard Link extension) the dual force mains, odor treatment facility and the EBI extending along the western edge of the Interbay Golf Course. In coordination meetings, Sound Transit has proposed building a temporary trestle over the pipeline to facilitate construction that could possibly impede access to the pipeline for inspection and maintenance. Unfettered access to the pipeline will need to be maintained during construction. Additionally, the potential impacts (vibration, etc.) to the EBI will need to be analyzed to confirm that structural integrity is maintained during and following construction. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
Segment Specific Comments	32	<p>Alternative SIB-3 is elevated and parallels the Interbay golf course just north of Wheeler continuing toward Dravus Street. KC WTD's Elliott Bay Interceptor (96") is contained in this same corridor (western edge of Interbay golf course). The close proximity of the elevated guideway to the EBI poses substantial risk and will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. In coordination meetings, Sound Transit has proposed building a temporary trestle over the pipeline to facilitate construction that could possibly impede access to the pipeline for inspection and maintenance. Unfettered access to the pipeline will need to be maintained during construction. Additionally, the potential impacts (vibration, etc.) to the EBI will need to be analyzed to confirm that structural integrity is maintained during and following construction. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
Segment Specific Comments	33	<p>The preferred alternative IBB-1a is elevated and crosses Bertona St just east of the BNSF corridor in a northeast-southwest direction. KC WTD's Elliott Bay Interceptor (96") crosses Bertona St in a north-south direction. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
Segment Specific Comments	34	<p>The preferred alternative IBB-1a and design option IBB-1b are elevated and cross (north-south) W. Nickerson St near 13th Ave W. KC WTD's North Interceptor (138") runs underneath W. Nickerson St in an east-west direction. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
Segment Specific Comments	35	<p>The preferred alternative IBB-1a and design option IBB-1b are elevated and cross (north-south) NW 45th St over 14th Ave NW. KC Ballard Trunk (54") runs east-west along the northern edge of NW 45 St. Also, the Ballard Trunk overflow (72") is a wood stave pipe that runs north-south along 11th Ave NW. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
Segment Specific Comments	36	<p>The preferred tunnel alternative IBB-2a and design option IBB-2b both transition from an elevated section to a retained cut at the proposed Interbay Station and then enter a tunnel portal near 15th Ave W and W Ruffner St. The Interbay Station is located near the intersection of W Bertona St and Thorndyke Ave W. At this location, KC WTD's Elliott Bay Interceptor (96") crosses Bertona St in a north-south direction. The retained cut Interbay Station will potentially impact the structural integrity, service life and operation and maintenance of this KC facility since the clearance between proposed top of rail and the crown of the EBI will be reduced to approximately 3 feet based on preliminary discussions between KC WTD and ST. Detailed discussions between ST and KC WTD have occurred and are on-going regarding impacts of this proposed alignment on this KC facility. General comments apply.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Type of Comment	ID	Comments on WSBLE Draft EIS	Response
Segment Specific Comments	37	The preferred tunnel alternative IBB-2a and design option IBB-2b cross (north-south) W. Nickerson St in between 14th Ave W and 15th Ave W. KC WTD's North Interceptor (138") runs underneath W. Nickerson St in a northeast-southwest direction. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of this KC facility. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	38	The preferred tunnel alternative IBB-2a and design option IBB-2b cross (north-south) NW 45th St. IBB-2b crosses NW 45th St near 15th Ave W while IBB-2a crosses NW 45 St under 14th Ave W. KC WTD's Ballard Trunk (54") runs east-west along the northern edge of NW 45 St. Also, the Ballard Trunk overflow (72") is a wood stave pipe that runs north-south along 11th Ave NW. The tunnel guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	39	Alternative IBB-3 crosses (north-south) W. Emerson St just west of 15th Ave W. KC WTD's North Interceptor (138") runs underneath W. Emerson St while the Elliott Bay Interceptor (96") parallels the guideway to the immediate west at the crossing. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	40	Alternative IBB-3 crosses (north-south) NW 45th St just west of 15th Ave W. KC WTD's Ballard Trunk (54") runs underneath the northern edge of NW 45th St. The elevated guideway will potentially impact the structural integrity, service life and operation and maintenance of these KC facilities. General comments apply.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	41	Presumably the Sound Transit will inspect and maintain the trestle using the access around the OCF and EBI-8. This access will coordinate with WTD's maintenance access to the OCF and the EBI-8 to minimize the impact. Comments on the access impact will be prepared when WTD reviews Sound Transit trestle design in this area.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	42	KC WTD owns parcel numbers 7666201675 (ST ID: BD20016), 2771108091 (ST ID: BD20018), 7666202060 (ST ID: BD20014) & 7666202035 (ST ID: BD20012). ST needs to coordinate with KC WTD to confirm that alignment does not interfere with current and future plans for the properties.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
Segment Specific Comments	43	KC WTD owns parcel number 7666703966 (ST ROW ID# WS22002). ST needs to coordinate with KC WTD to confirm that alignment does not interfere with current and future plans for this property.	Noted. If Alternative DUW-2 is selected as the project to be built, Sound Transit would coordinate with King County regarding current and future plans for this property.

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Moving forward together

King County Metro Transit Department

General Manager's Office
201 S. Jackson Street
Seattle, WA 98104-3856

April 27, 2022

Lauren Swift
West Seattle Ballard Link Extension Environmental Manager
Central Puget Sound Regional Transit Authority (Sound Transit)
401 S. Jackson Street
Seattle, WA 98104-2826

Dear Ms. Swift:

Thank you for the opportunity to review and comment on the Draft Environmental Impact Statement (DEIS) for the West Seattle to Ballard Link Extension (WSBLE) Project. As a participating agency under the National Environmental Policy Act (NEPA), King County Metro Transit Department (Metro) sincerely appreciates our strong working relationship and collaboration with the Sound Transit WSBLE Team through this planning phase of the project and the team's responsiveness to our input to date.

Given the evolving nature of the WSBLE, the comments submitted today should not be considered a comprehensive list of all of Metro's concerns and input related to this project. The purpose of this letter is to give a summary of our assessment of the impacts on Metro's facilities and operations based on our focused review of the Transportation Technical Report (Appendix N.1) and the conceptual design drawings in Appendix J of the DEIS. This letter provides a summary of Metro's comments on the DEIS. We are also providing a pdf of detailed comments, included as Attachment 1.

Metro supports development of a high-quality and high-capacity light rail project that provides excellent transit integration, station design, and public access. We look forward to working with Sound Transit to ensure it is constructed as on-time, on-budget, and with as much construction and built condition mitigation as possible.

This letter focuses on 4 key areas of concern:

- **Impacts to Metro and Mitigation Measures** – WSBLE construction effects on transit customers and Metro operations will be considerable for many years due to the long duration of the project. Because capital-related mitigation for construction impacts will take years to design, approve, and implement, we request that Sound Transit create and lead an interagency mitigation coordination team beginning immediately after selection of the preferred alternative(s). The WSBLE project would also greatly impact transit facilities. We would also like to request better clarity around facilities impacts under each alternative that moves forward into the Final Environmental Impact Statement (FEIS) (e.g., base access restrictions, closures and

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temporary/permanent reductions in base capacity, temporary/permanent removal of bus stops, layover areas, comfort stations, etc.). Because the full magnitude of the impacts for each alternative is not thoroughly analyzed in the DEIS, the DEIS lacks specificity needed to understand scope, cost, schedule, and feasibility of mitigation implementation for each alternative.

- **Transfer Facilities – Bus-Rail Integration Assessment** – Some of the proposed bus-rail integration facilities and layover locations lack enough detail to understand feasibility, would require new transit facilities/transit priority treatments that are currently unapproved by the Seattle Department of Transportation (SDOT), or are undesirable to Metro and present challenges/inefficiencies for our riders from a transfer and/or transit travel-time perspective.
- **Minimum Operable Segments (M.O.S.) Assessment** – Previous input Metro provided on the M.O.S. alternatives were rough drafts only and should not be used as the basis for determining impacts to Metro service. Much more detailed network development work will be required if the M.O.S. is selected as a preferred alternative.
- **Station & Alignment Refinement Concepts Not Included in the DEIS** – While not included in DEIS, in parallel with this work Sound Transit staff have been developing several station and alignment refinement concepts. Based on the information provided by Sound Transit staff to-date, Metro expects many of the concepts would result in challenging bus-rail transit integration outcomes if built.

Impacts to Metro and Mitigation Measures

Metro recognizes that, due to the large number of alternatives, and the current stage of design being at less than 10%, much of the detailed analysis of impacts will be completed in a future analysis of a preferred alternative(s) in the FEIS. However, because the full magnitude of the impacts for each alternative is not thoroughly analyzed in the DEIS, the DEIS also lacks specificity needed to understand scope, cost, schedule, and feasibility of mitigation implementation for each alternative. Disclosing how substantial the required mitigation strategies are for each alternative compared to the others is necessary to fully understand the tradeoffs among the alternatives. Metro hereby requests that, as the number of alternatives is refined to those carried forward into the FEIS, the impacts to transit be better defined and the mitigation measures to avoid or reduce those impacts be developed to a greater level of detail to understand cost, schedule, risks, funding method, delivery method, and approvals needed, as well as disclosure to the community of any secondary impacts resulting from this mitigation.

WSBLE construction will be the largest disruption Metro has managed since the construction of the Downtown Seattle Transit Tunnel more than thirty years ago, and the effects upon transit customers and Metro operations will be considerable for many years due to the long duration of the project. Our request for a more detailed discussion of impacts and mitigation is especially crucial given that construction impacts would adversely affect Metro operations and capital facilities beginning as early as fall 2025 (with closure of the SODO busway) and as early as 2026-2027 for most other major impacts to the transportation network, such as long-term arterial segment closures and key intersection closures to accommodate tunneling, aerial guideway, and station construction. Metro needs more information to be able to prepare adequately for the coming disruptions and to understand what the cost will be to operate successfully and serve customers throughout the construction period.

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The DEIS states that: “impacts would be addressed through ongoing coordination between Sound Transit, the City of Seattle, Metro, and FTA to identify capital, routing, alternative base locations and capacity, and access management strategies that would be implemented before transit service operations would be affected. Sound Transit would implement agreed-upon improvements that mitigate impacts directly associated with the project.” Because capital-related mitigation for construction impacts will take years to design, approve, and implement, we request that Sound Transit create and lead an interagency mitigation coordination team beginning immediately after Sound Transit Board selection of the preferred alternative(s).

This interagency team would operate concurrently with FEIS development/analysis and would refine mitigation strategies at the 30% design stage to ensure there is sufficient time to develop, coordinate, fund, and implement mitigation strategies. This interagency team would be composed of Sound Transit, Metro, SDOT/City of Seattle, and other affected agencies (as needed) with the express purpose of developing effective capital (i.e., roadway and facility) strategies and mitigation to ensure implementation prior to commencement of WSBL construction. The key tasks this team would deliver, include but are not limited to: concept development, travel demand/traffic modeling, mitigation alternatives analysis, preliminary and final design of mitigation, cost estimating, agency approvals, identification of/securing funding source(s), implementation plans, development and execution of construction contracts, construction management, traffic management plans, and performance monitoring for the agreed upon capital mitigation strategies. The creation of this team will also help ensure that mitigation is fully understood by all parties that will be impacted, and that all agencies are at the table together rather than having mitigation conversations bilaterally.

The following subsections highlight Metro’s concerns regarding impacts and mitigation for two horizon periods: construction and Build condition.

Construction Impacts and Mitigation

We appreciate Sound Transit’s recognition that for Metro to continue to operate its services, all construction impacts must be identified and quantified, and mitigation must be planned and implemented (to the extent feasible) prior to construction beginning on the project. It is imperative that Sound Transit provide adequate time in its planning and construction schedule to allow for Sound Transit, the City of Seattle, and Metro to coordinate, plan for, design, and implement all construction-related mitigation needed for transit operations.

Related to our request of creation of an interagency team to design, approve, and implement construction mitigation measures, we would like to outline our specific concerns below.

Required Reroutes and Transit Priority Treatments During Construction

For all intersection/roadway closures that adversely affect transit operations, we are requesting that Sound Transit propose detailed reroute plans for Metro and City of Seattle to review, modify, and ultimately approve as construction mitigation measures. These reroute plans will help Metro, City of Seattle, and the public understand the number of existing customers adversely affected as well as pathway feasibility including new temporary stops needed, transit priority treatments needed, general purpose traffic impacts, and any approvals needed by SDOT for implementation. These plans would include, but not be limited to the following capital mitigation needs:

1. Identification of speed and reliability treatments to mitigate increased transit travel

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time (e.g., transit lanes, transit signal priority, and similar). These treatments should be monitored for their effectiveness and, if found to be ineffective, other mitigations measures should be implemented either as an alternative to or in addition to the original treatment (all alternatives).

2. Identification of new trolley wire infrastructure necessary along detoured trolley bus pathways (CID-1a, CID-1b, CID-2a, DT-1, & DT-2).
3. Identification of any pavement improvements necessary on transit detour routes that are not designed to accommodate transit vehicles (all alternatives).

It should be noted that CID-1a and CID-1b would result in considerable delays and disruptions for tens of thousands of daily transit riders, resulting in higher costs for additional operating service hours and a substantial increase in the number of buses needed to deliver the same level of service for an extended period due to the magnitude of intersection/roadway closures. At this time there are no formal agreements in place on bus or trolley reroute pathways and layovers. Areas of major disruptions include:

- Service (revenue) via 4th Ave S (*routes to SODO, Georgetown, South Park, Skyway, Renton, Kent*)
 - Major service disruption for over 1,200 daily buses with full closure of 4th Ave S in both directions for ~6.5 years (CID-1b)
 - Disruption for ~6 years with split northbound/southbound reroutes (CID-1a)
 - Considerable congestion compounded by delays due to SODO busway closure
- Service (revenue) via S Jackson Street (*routes to Rainier Ave, Beacon Hill, Mt Baker, and First Hill Streetcar*)
 - Uncertain reroute pathways around the closure of 4th/Jackson intersection (CID-1a & CID-1b) and relationship to general purpose/freight reroutes
 - Loss of connection to destinations around 4th/5th/Jackson including existing Link station (CID-1a & CID-1b)
- Service (deadhead) to/from Metro bases (*including but not limited to ALL Metro trolley bus routes and RapidRide C, D, E, and future H Line; routes representing service throughout City of Seattle*)
 - Delays and disruptions due to constrained roadways and lack of alternative pathways (CID-1a & CID-1b)
 - Alternative trolley bus reroute pathways through the heart of the International District on 7th/8th including new trolley wire (CID-1a & CID-1b)

In addition, it is important to note that reroutes of electric trolley bus routes (such as what would be required in Chinatown-International District (C-ID) and Pioneer Square) are more complicated than diesel/hybrid bus routes and would require significant capital improvements, such as trolley infrastructure (trolley poles, overhead trolley wire, etc.). All project planning should assume that existing electric trolley routes should continue to operate as such and not be switched to diesel operation during construction. Metro does not have enough spare buses or base capacity to move routes to from trolley to diesel operations, and even if fleet was available, moving from electric trolley to diesel-hybrid operations would not be consistent with our goal to achieve a 100% zero-emissions fleet operation in the future.

Operating Costs During Construction

The WSBLE project would result in significantly increased transit operating costs during construction due to slower operations caused by extended reroutes to avoid

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roadway/intersection closures and additional congestion in and around construction sites as less roadway capacity is made available for all users. This is true for both our revenue operations as well as our deadhead operations as it would take more time for buses to move from bases to their revenue service routes. Therefore, it is imperative that a detailed analysis of all transit service impacts for the preferred alternative(s) be disclosed in the FEIS to ensure additional operating costs and buses/operators needed are adequately identified for budgeting purposes, if they are not able to be fully mitigated via capital improvements. For each preferred alternative(s) that moves forward into the FEIS, Sound Transit should quantify the expected increases in transit travel time due to detour routes and/or increased traffic congestion for each affected route so that specific mitigation measures can be identified and assessed.

Roadway Segment/Intersection Closures with No Alternate Transit Pathways During Construction

The full closure of transit pathways along arterials that have no alternate pathways available is unacceptable to Metro and its customers. These impacts must be accurately disclosed in the FEIS and alternatives resulting in these closures should be modified to avoid these impacts or removed from consideration in the FEIS. An example of this unacceptable impact is the night and weekend closure of Delridge Way Southwest between 23rd Ave Southwest and South Dakota Street under alternatives DEL-1a, DEL 1-b, DEL 2-a, DEL 2-b, DEL-3, and DEL-4. Metro Routes 120 (future H Line) and 125 have no alternate pathway under any alternative that has concurrent construction along Southwest Genesee Street where either full or night and weekend closures would also take place. Further, Southwest Genesee Street between Delridge Way Southwest and SW Avalon Way has such an extreme grade that it is unclear whether 60-foot articulated buses (such as those that are utilized for Route 120/H Line) would be able to operate on that street. Coach tests would be needed to confirm feasibility.

Facilities Impacts During Construction

As noted in the DEIS, construction of the WSBLE project would greatly impact transit facilities. We would also like to request better clarity around facilities impacts under each alternative that moves forward into the FEIS (e.g., base access restrictions, closures and temporary/permanent reductions in base capacity, temporary removal of bus stops, layover areas, comfort stations, etc.). These impacts must be accounted for and planned to ensure success of the project and operability of service during and after construction. As the DEIS is currently written, it is unclear which alternatives are more feasible from a mitigation standpoint.

Specific areas of concern around construction impacts that need to be addressed include, but are not limited to:

- Bus stop closures and replacements along reroutes (all alternatives)
- Trolley bus wire (overhead catenary system) deactivation, temporary removal (if needed), and replacement (all alternatives)
- Replacement of SODO busway layover spaces and comfort station, temporarily (all alternatives) and permanently (SODO-1a/1b)
- Replacement of SODO busway capacity on parallel surface street with transit priority treatments (all alternatives) and permanently (SODO-1a/1b)
- Loss of layover and comfort station infrastructure and replacements in Chinatown-International District and Pioneer Square (CID-1a/1b)

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- Access impacts to Central/Atlantic base and Metro's Employee Garage access (6th Ave S between S Massachusetts St and S Royal Brougham Way) (CID-2a/2b)
- Loss of Ryerson primary base access and replacement (CID-1a)
- Reduced Ryerson base capacity (CID-1a)
- Loss and full replacement of Ryerson Base within a reasonable geographic vicinity of its existing location (CID-1b)
- Loss and full replacement of Metro's Marketing Distribution Center, Drug/Alcohol Testing Center, and oversized vehicle parking between 6th Ave and existing rail ROW (all alternatives)
- Limitations on expandability of Metro's Transit Control Center (CID-2a/2b)

Although the project is currently only at the high-level planning stage, we would like to ensure Sound Transit is aware of Metro's plan to electrify all bases prior to 2035 (including those located in the vicinity of the WSBLE project). Unplanned base disruption and reduction in capacity at Metro's bases during construction of our electrification projects would impact the cost and potentially the schedule feasibility of our planned electrification, as well as our ability to maintain service levels during construction of the WSBLE. Therefore, we request that Sound Transit acknowledge our project and its planned timeline, and work with us to minimize any impacts that the WSBLE could have on our base electrification projects once they are underway. Given the early stage of both projects, we recommend that coordination of the two projects be included as part of the interagency construction mitigation work.

Construction Traffic Management Plan

We believe Sound Transit should initiate development of a construction/traffic management and mitigation plan as soon as the preferred alternative(s) has been selected. According to current schedule, there will be less than three years between Board selection of a preferred WSBLE alternative(s) and commencement of construction (i.e., closure of SODO Busway). This plan should include a traffic monitoring program that would evaluate traffic conditions, including those for buses, freight, and general-purpose traffic to ensure traffic detours and mitigation measures respond effectively to traffic patterns as they change during construction.

Build Condition Impacts and Mitigation

The impacts of WSBLE on Metro bus service and facilities substantially exceed impacts of any other previous Sound Transit project to date. This understanding is based on the DEIS stating the potential need (depending on alternative) for permanent closures of layover spaces, comfort stations, key transit revenue and deadhead pathways, the SODO Busway (a key transit revenue and deadhead pathway), and Ryerson Base, as well as potential permanent access impacts, reduced base capacity, and constrained expansion to Metro's Ryerson and Atlantic/Central bus bases.

Permanent Closures of Metro Transit Facilities

The FEIS should quantify the magnitude of the impact in detail for all the potential impacts to Metro, with sufficient detail to allow discussion and consideration of whether and how mitigation measures can be employed to reduce the impact. Understanding the impacts of specific alignment options and how impacts will be mitigated is critical to allow Metro to continue to effectively provide transit service under the Build condition. For instance, Alternative CID-1b would require permanent closure of Ryerson bus base, a facility that is critical to Metro operations and maintenance. The DEIS does not include any discussion of mitigation for the permanent closure of Ryerson Base, which is unacceptable due to the

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magnitude of impact to Metro. Because the closure would occur at the outset of construction, full replacement would be required by Sound Transit by start of construction. Given that full replacement of Ryerson base appears infeasible, either due to schedule or cost, we request that Alternative CID-1b be removed from consideration as Sound Transit identifies a preferred alternative in the FEIS.

As described in the DEIS, Preferred Alternative SODO-1a and Option SODO-1b would permanently close the SODO Busway to buses to accommodate the light rail guideway. This closure would eliminate existing layover areas and a recently built comfort station, would adversely affect both revenue and deadhead operations, and would increase bus travel time to bases. Metro requests that Sound Transit work with Metro and SDOT on mitigation, which would include locating/approving new layover space, relocating the existing comfort station to the new layover space, and providing transit priority on 4th Avenue South between S Lander Street and Edgar Martinez Drive, which could take the form of curb running transit only lanes or extended queue jumps at S Lander and S Holgate streets (or other combinations of transit-priority treatments that provide a similar travel time and speed benefit as the SODO Busway). Since the construction of the SODO segment could begin within a few years, these mitigation strategies will need to be fully assessed, designed, and implemented prior to construction and would also apply to the Build condition.

Transfer Facilities – Bus-Rail Integration Assessment

In 2019 and 2020, Metro, Sound Transit, SDOT, and community stakeholders worked together collaboratively to discuss, refine, and improve WSBLE bus-rail integration preliminary design for each station location. While the majority of this work was carried forward and incorporated into the DEIS, our review has found that as currently written, some of the proposed bus-rail integration facilities and layover locations lack enough detail to understand feasibility, would require new transit facilities/transit priority treatments that are currently unapproved by SDOT, or are undesirable to Metro and present challenges/inefficiencies for our riders from a transfer perspective. One of Metro's stated goals for WSBLE is to achieve seamless bus-rail integration for our shared transit customers using both modes in a single linked trip. While Metro will work closely with Sound Transit and City of Seattle to provide excellent transfer facilities, specific station alternatives allow for more seamless integration than others. Below is Metro's assessment of transit integration potential by station area location/alternative:

Alaska Junction

- Alternatives WSJ-3a/b, WSJ-4, and WSJ-5 are preferred by Metro as they would offer a superior transit integration/transfer experience with station entrances on the north and south sides of SE Alaska St. This configuration would allow for transfers to be completed without the need to cross a street, offering a seamless transfer experience.
- WSJ-1 would locate station entrances south of SE Alaska St, which would require a street crossing to access buses traveling WB (outbound) through Alaska Junction (headed ultimately to the south or north)
- WSJ-2 would provide the poorest connectivity of the Alaska Junction station options. It is the furthest from California Ave and would not directly connect to Metro 2050 Connects Route 1040.
- For all alternatives, Metro requires four layover spaces. Work to date in the DEIS does not adequately identify location of, nor pathway to/from these spaces, or

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whether they would be on- or off-street. Alternatives WSJ-1, WSJ-3a/b, WSJ-4, and WSJ-5 would require a layover circulation pattern to/from SE Alaska St west of Fauntleroy Way SW that presents feasibility challenges including travel on narrow streets, residential streets, and steep grades that are unresolved in the DEIS. Similarly, the station location straddling/east of Fauntleroy Way SW (Alternative WSJ-2) presents limited on-street options for layover due to very limited circulation possibilities in the area bounded by Fauntleroy Way SW, SW Alaska St and 35th Ave SW. The DEIS does not propose a feasible layover solution, either on- or off-street for this alternative.

Avalon

- All station alternatives would require street crossings for transfers to one or more routes. Most transfers would occur from Metro's future Route 2021, which will travel along 35th Ave SW. While there is no preferred Avalon station alternative based on transit integration analysis, the specific station alternatives connect to preferred Alaska Junction and Delridge station alternatives as described in the sections immediately above and below.
- Metro does not require layover at this station location.

Delridge

- The Delridge Station will have the highest percentage of bus-rail transfers of all WSBLE stations, so the transfer environment should be of the highest quality and as seamless for riders as possible.
- Alternatives DEL-1a/b, DEL-2a/b would provide superior transit integration for transit customers with the high and low guideway station design between SW Dakota Street and SW Genesee Street. Northbound transfers would require deviations off Delridge Way SW onto 25th Ave SW (DEL-1a/b) and 26th Ave SW (DEL-2a/b). With transit priority measures, including queue jumps, rebuilt streets for transit only operations, and transit only signals, detour travel time would be minimized while providing seamless and safe northbound transfers. Southbound buses would stop on Delridge Way SW, directly adjacent to the station. These station options would also provide the best opportunity for mixed use development further enhancing the attractiveness for transit customers.
- Alternatives DEL-3 and DEL-4 would also provide seamless transfers with station entrances on the east and west side of Delridge Way SW. Deviation of buses would not be required.
- Alternatives DEL-5 and DEL-6 provide the most challenging connectivity and transit integration of the Delridge station alternatives. The Andover St station alternatives would require bus routing to deviate from Delridge Way to SW Dakota St, 26th Ave SW, and SW Andover St. Like DEL-1a/b, DEL-2a/b, these deviations would require transit priority measures, including queue jumps, rebuilt streets for transit only operations, and transit only signals. However, under these alternatives southbound buses would also need to deviate to provide station access. The location of the station on SW Andover St presents challenges for transit operations, transit safety, and pedestrian safety as SW Andover St is heavily trafficked by large vehicles and trucks accessing the Nucor Steel Factory. Buses would need to compete with truck traffic while traveling on SW Andover St. Passengers transferring to the station via northbound buses would be required to cross to the northside of SW Andover St to access the station unless a station entrance/mezzanine access is provided on the south side of Andover Street.

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- Metro does not require layover at this station location.

SODO

- Alternatives SODO-1b and SODO-2 provide superior transit integration with east/west stops (those routes, e.g., Route 50, will generate the most transfer activity) closer to station entrance compared to SODO-1a.
- For all alternatives, Metro requires 2 layover spaces. Layover would be provided in an off-street loop either east of or west of the station.

Chinatown-International District

- All station alternatives (CID-1a, CID-1b, CID-2a, CID-2b) provide a similar transit integration experience once completed. East-west transit integration would be identical across all alternatives.
- For north-sound connectivity Alternatives CID-1a and CID-1b would offer a more seamless southbound transfer with a station entrance on the west side of 4th Ave S, but this benefit is greatly outweighed by the operational and facility impacts to Metro under the CID-1a and CID1-b alternatives.
- Despite similarities in the experience after completion, some alternatives have much larger and substantial impacts during the extended construction period. Referring to our comments on construction impacts, Alternatives CID-1a and CID-1b, when compared to Alternatives CID-2a and CID-2b, would result substantially more delays and disruptions for customers, added operating service hour costs, and a substantial increase in the number of buses needed to deliver the same amount of service for an extended period due to the magnitude of intersection/roadway closures.
- Metro does not require layover at this station location.

Midtown

- Alternative DT-1 (5th Ave) provides a superior transfer connection to the RapidRide G Line, which will be the primary connecting bus route, compared to Alternative DT-2 (6th Ave).
- The RapidRide G Line will have buses with doors on both sides and can stop on either side of the one-way streets. It will be able to provide a seamless transfer experience under Alternative DT-1 (5th Ave) at the Madison & 4th Ave station entrance. This stop would serve both inbound and outbound travelers with the G Line turning around at 1st Ave to begin its outbound trip.
- The station entrances for Alternative DT-2 (6th Ave) would require street crossings and walks/bikes/rolls up steep grades for bus-rail transfers since a stop on Spring St between 5th and 6th Aves is infeasible at this time.
- Metro does not require layover at this station location.

Westlake

- Alternative DT-1 (5th Ave) provides better integration with connecting transit routes than Alternative DT-2 (6th Ave) with station entrances along Pike and Pine Streets. Alternative DT-2 (6th Ave) shifts station entrances north to Pine St and Olive Way.
- Metro does not require layover at this station location.

Denny

- Alternative DT-1 (Denny) provides better integration with connecting transit routes than Alternative DT-2 (Terry). Alternative DT-1 (Denny) would provide seamless

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transfers for north and southbound bus routes with the station located underneath Westlake Ave.

- Alternative DT-2 (Terry) would require one or more street crossings for transfers from north and southbound bus routes, and its location on Terry Ave north of Denny Ave presents challenges for east-west transit integration because of its grade and limited sidewalk with on Denny Ave.
- Metro does not require layover at this station location.

South Lake Union

- Alternative DT-1 (Harrison) provides such vastly better transit integration with connecting bus routes than Alternative DT-2 (Mercer) that Metro recommends against selecting the Alternative DT-2 (Mercer) station option as part of preferred alternative chosen to move forward with in the FEIS.
- Harrison St. is a future east/west transit corridor (as identified in the Seattle Transit Master Plan) and is anticipated to serve multiple future routes. Further, Alternative DT-1 (Harrison) provides a direct connection to the RapidRide E Line (Metro Connects Route 1001), which is the highest ridership bus route in Washington State. The E Line provides critical and frequent accessibility to points north along Aurora Ave N, including Fremont, Wallingford, Woodland Park Zoo, Green Lake, Greenwood, and City of Shoreline.
- Under Alternative DT-2 (Mercer) there would be no feasible connection to the E Line due to the configuration of Aurora Ave/SR 99 in the vicinity of the station. Riders connecting to/from the north would be forced to travel south past the South Lake Union station and through north downtown to connect to Link at Westlake Station. This would add an average of 5-10 minutes of additional travel time.
- Metro does not require layover at this station location.

Seattle Center

- Alternative DT-1 (Republican) provides better integration with connecting transit routes than Alternative DT-2 (Mercer).
- Alternative DT-2 (Mercer) would require longer walks/rolls and more street crossings than Alternative DT-1 (Republican) to make bus-rail transfers.
- Metro does not require layover at this station location.

Smith Cove

- All alternatives (SIB-1, SIB-2, and SIB-3) would offer a similar transit integration experience, with terminating routes stopping then laying over inside the station, and through routes stopping along either side of Elliot Ave W.
- Alternative SIB-1 would be located west of Elliot Ave W, requiring a street crossing for northbound transfers. Similarly, Alternatives SIB-2 and SIB-3 would require a street crossing, but for southbound transfers due to the station location being east of Elliot Ave W.
- For all alternatives, Metro requires 12 layover spaces. Layover would be provided in an off-street facility within the station footprint (shown representatively in Appendix J - station design drawings).

Interbay

- All alternatives (IBB-1a, IBB-2a/2b, and IBB-1b/IBB-3) would offer a similar transit integration experience, with one street crossing required (side of street depending on alternative) for through routes to/from Magnolia.

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- For all alternatives, Metro requires 4 layover spaces. Layover would be provided adjacent to the station (shown representatively in Appendix J - station design drawings).

Ballard

- The 14th Ave Station Alternatives (IBB-1a/1-b, IBB-2a) would offer a better transit integration experience than the 15th Ave Station Options (IBB-2b and IBB-3) because no street crossing would be required for transfers.
- For all alternatives, Metro requires 3 layover spaces. Layover would be provided adjacent to or near the station.

Minimum Operable Segments (M.O.S.) Assessment

Sound Transit staff worked with Metro staff to determine whether M.O.S. alternatives to the full alignments would be workable for transit integration for the DEIS, but these networks were rough drafts only and should not be used to as the basis for determining impacts to Metro service. If the FEIS presents the M.O.S. analysis as the preferred alternative, much more detailed network development work will be required. The City of Seattle, Metro, and Sound Transit should/must fully identify and vet Metro route alternatives to ensure capital infrastructure is built to accommodate pathways, turning movements, layover, and active bus stops that meet the needs of Metro bus services. This should be disclosed in the FEIS, as well as the fact that the M.O.S. transit networks are not currently part of Metro Connects.

Station & Alignment Refinement Concepts Not Included in the DEIS

While not included in DEIS, in parallel with this work Sound Transit staff have been developing several station and alignment refinement concepts which would be expected to reduce the overall financial cost of the WSBLE project if they were incorporated. Based on the information provided by Sound Transit staff to-date on these refinement concepts, Metro expects many of the concepts would result in worse bus-rail transit integration outcomes for riders if built, especially refinement concepts that would consolidate nearby stations into a single location and cannot provide seamless connections. In general, the station consolidation concepts would result in worse transit service outcomes, mainly due to longer travel times for nearby routes to divert to/from the consolidated station compared to what was envisioned in Metro Connects.

These three consolidation concepts warrant a transit integration assessment in this comment letter:

- **Elimination of Avalon Station** – California Ave SW, 35th Ave SW, and Delridge Ave SW are the primary north-south arterials on the West Seattle Peninsula, with Alaska Junction, Avalon, and Delridge Stations capturing those transit markets, respectively. The elimination of Avalon Station and consolidating with an elevated Fauntleroy Alaska Junction Station would result in a more challenging transit integration than with both stations. This station elimination would require deviation of Route 21 (Metro Connects Route 2021) off the 35th Avenue corridor. This deviation would bypass the dense residential blocks between SW Alaska St and SW Avalon Way. Further, the City of Seattle would need to approve new pathways, signals, and/or turning movements as the assumed deviation along SW Alaska St and Fauntleroy Way SW is currently not feasible.

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- **Consolidation of Denny and South Lake Union Stations** – This consolidation concept would replace the Denny (Westlake or Terry) and South Lake Union (Harrison or Mercer) stations with a single South Lake Union Station on Dexter Ave N between Denny Way and John St. This single South Lake Union Station would provide for relatively seamless transfers for routes planned to operate along Dexter Way (Metro Connects Routes 1005 and 1202) but would be over a block walk for riders transferring from the RapidRide E Line (and other Aurora Ave-based service) and over two blocks away from Harrison St., which is a future east/west transit corridor serving multiple routes. Further, routes that operate along Westlake Ave N would require a three to four block walk to reach the station. Overall, this consolidation concept severely limits bus-rail integration potential within South Lake Union.
- **Consolidation of Smith Cove and Interbay Stations** – This comment refers to the station consolidation concept with a retained cut station north of Magnolia Bridge and west of 15th Ave W. While the consolidated station would be adjacent to 15th Ave W and provide a similar transit integration experience for riders via through routes, its location would increase travel time for riders transferring to/from Magnolia since routes using Magnolia Bridge would backtrack north to reach the station (a moderate deviation compared to Smith Cove Station alternatives SIB-1, SIB-2, and SIB-3), and routes using W Dravus St. would travel nearly a full mile south (a lengthy deviation compared to Interbay Station alternatives IBB-1a, IBB-2a/2b, and IBB-1b/IBB-3). This additional travel time would also translate into additional operating costs, reducing operational efficiency and locating layover further away from their desired terminus points.

We would like to add that, as Sound Transit continues to further station designs, refinement concepts that would adjust station entrance locations are not a significant concern to Metro at this time, given that their intent is to enhance station access and would not substantially change (i.e., degrade) the bus-rail connection experience for riders.

In summary, Metro acknowledges the size and complexity of what Sound Transit is undertaking and appreciates this opportunity to review the DEIS. We look forward to participating in interagency teams with you and the other cooperating and participating agencies in the months ahead to better identify, quantify, and develop mitigation for the large number of significant impacts this project will generate and help Sound Transit develop a project that will best meet the mobility needs of Seattle residents, workers, and visitors for decades into the future.

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Metro Staff Responsibilities

Stephen Crosley will continue to be the lead participant and main point of contact for Metro. Jessica Conquest is responsible for Metro's internal coordination in support of its role as a Participating Agency during the NEPA and SEPA environmental review process. Their contact information is as follows:

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Sincerely,

DocuSigned by:
Terry White
CFAFB29C7D8F4A1...

4/28/2022

Terry White
General Manager
King County Metro Transit Department

Attachment 1. Metro's detailed comments on the WSBLE Project DEIS

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 505015 - King County Metro Draft EIS Comment

#	Comments	Responses
1	<p>Metro recognizes that, due to the large number of alternatives, and the current stage of design being at less than 10%, much of the detailed analysis of impacts will be completed in a future analysis of a preferred alternative(s) in the FEIS. However, because the full magnitude of the impacts for each alternative is not thoroughly analyzed in the DEIS, the DEIS also lacks specificity needed to understand scope, cost, schedule, and feasibility of mitigation implementation for each alternative. Disclosing how substantial the required mitigation strategies are for each alternative compared to the others is necessary to fully understand the tradeoffs among the alternatives.</p> <p>Metro hereby requests that, as the number of alternatives is refined to those carried forward into the FEIS, the impacts to transit be better defined and the mitigation measures to avoid or reduce those impacts be developed to a greater level of detail to understand cost, schedule, risks, funding method, delivery method, and approvals needed, as well as disclosure to the community of any secondary impacts resulting from this mitigation. WSBLE construction will be the largest disruption Metro has managed since the construction of the Downtown Seattle Transit Tunnel more than thirty years ago, and the effects upon transit customers and Metro operations will be considerable for many years due to the long duration of the project. Our request for a more detailed discussion of impacts and mitigation is especially crucial given that construction impacts would adversely affect Metro operations and capital facilities beginning as early as fall 2025 (with closure of the SODO busway) and as early as 2026-2027 for most other major impacts to the transportation network, such as long-term arterial segment closures and key intersection closures to accommodate tunneling, aerial guideway, and station construction. Metro needs more information to be able to prepare adequately for the coming disruptions and to understand what the cost will be to operate successfully and serve customers throughout the construction period.</p>	<p>Please see response to CCG3c in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. See response to comment 6 in the attached comment spreadsheet. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
2	<p>The DEIS states that: "impacts would be addressed through ongoing coordination between Sound Transit, the City of Seattle, Metro, and FTA to identify capital, routing, alternative base locations and capacity, and access management strategies that would be implemented before transit service operations would be affected. Sound Transit would implement agreed-upon improvements that mitigate impacts directly associated with the project." Because capital-related mitigation for construction impacts will take years to design, approve, and implement, we request that Sound Transit create and lead an interagency mitigation coordination team beginning immediately after Sound Transit Board selection of the preferred alternative(s). This interagency team would operate concurrently with FEIS development/analysis and would refine mitigation strategies at the 30% design stage to ensure there is sufficient time to develop, coordinate, fund, and implement mitigation strategies. This interagency team would be composed of Sound Transit, Metro, SOOT/City of Seattle, and other affected agencies (as needed) with the express purpose of developing effective capital (i.e., roadway and facility) strategies and mitigation to ensure implementation prior to commencement of WSBLE construction. The key tasks this team would deliver, include but are not limited to: concept development, travel demand/traffic modeling, mitigation alternatives analysis, preliminary and final design of mitigation, cost estimating, agency approvals, identification of/securing funding source(s), implementation plans, development and execution of construction contracts, construction management, traffic management plans, and performance monitoring for the agreed upon capital mitigation strategies. The creation of this team will also help ensure that mitigation is fully understood by all parties that will be impacted, and that all agencies are at the table together rather than having mitigation conversations bilaterally.</p>	<p>Sound Transit has continued to coordinate with Metro, the City of Seattle, and the Port of Seattle/Northwest Seaport Alliance regarding transportation mitigation as preliminary design of the Preferred Alternative has advanced through development of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
3	<p>For all intersection/roadway closures that adversely affect transit operations, we are requesting that Sound Transit propose detailed reroute plans for Metro and City of Seattle to review, modify, and ultimately approve as construction mitigation measures. These reroute plans will help Metro, City of Seattle, and the public understand the number of existing customers adversely affected as well as pathway feasibility including new temporary stops needed, transit priority treatments needed, general purpose traffic impacts, and any approvals needed by SOOT for implementation. These plans would include, but not be limited to the following capital mitigation needs: 1.</p> <p>Identification of speed and reliability treatments to mitigate increased transit travel time (e.g., transit lanes, transit signal priority, and similar). These treatments should be monitored for their effectiveness and, if found to be ineffective, other mitigations measures should be implemented either as an alternative to or in addition to the original treatment (all alternatives). Identification of new trolley wire infrastructure necessary along detoured trolley bus pathways (CID-1a, CID-1b, CID-2a, DT-1, & DT-2). Identification of any pavement improvements necessary on transit detour routes that are not designed to accommodate transit vehicles (all alternatives).</p>	<p>Please see Section 3.4 of Appendix N.1, Transportation Technical Report, of the Final EIS for updated information on proposed mitigation for transit impacts. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>It should be noted that CID-1a and CID-1b would result in considerable delays and disruptions for tens of thousands of daily transit riders, resulting in higher costs for additional operating service hours and a substantial increase in the number of buses needed to deliver the same level of service for an extended period due to the magnitude of intersection/roadway closures. At this time there are no formal agreements in place on bus or trolley reroute pathways and layovers. Areas of major disruptions include:</p> <ul style="list-style-type: none"> • Service (revenue) via 4th Ave S (routes to SODO, Georgetown, South Park, Skyway, Renton, Kent) o Major service disruption for over 1,200 daily buses with full closure of 4th Ave S in both directions for ~6.5 years (CID-1b) o Disruption for ~6 years with split northbound/southbound reroutes (CID-1a) o Considerable congestion compounded by delays due to SODO busway closure • Service (revenue) via S Jackson Street (routes to Rainier Ave, Beacon Hill, Mt Baker, and First Hill Streetcar) o Uncertain reroute pathways around the closure of 4th/Jackson intersection (CID-1a & CID-1b) and relationship to general purpose/freight reroutes o Loss of connection to destinations around 4th/5th/Jackson including existing Link station (CID-1a & CID-1b) • Service (deadhead) to/from Metro bases (including but not limited to ALL Metro trolley bus routes and RapidRide C, D, E, and future H Line; routes representing service throughout City of Seattle) o Delays and disruptions due to constrained roadways and lack of alternative pathways (CID-1a & CID-1b) o Alternative trolley bus reroute pathways through the heart of the International District on 7th/8th including new trolley wire (CID-1a & CID-1b) <p>In addition, it is important to note that reroutes of electric trolley bus routes (such as what would be required in Chinatown- International District (C-ID) and Pioneer Square) are more complicated than diesel/hybrid bus routes and would require significant capital improvements, such as trolley infrastructure (trolley poles, overhead trolley wire, etc.). All project planning should assume that existing electric trolley routes should continue to operate as such and not be switched to diesel operation during construction. Metro does not have enough spare buses or base capacity to move routes to from trolley to diesel operations, and even if fleet was available, moving from electric trolley to diesel- hybrid operations would not be consistent with our goal to achieve a 100% zero-emissions fleet operation in the future.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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#	Comments	Responses
5	<p>The WSBLE project would result in significantly increased transit operating costs during construction due to slower operations caused by extended reroutes to avoid roadway/intersection closures and additional congestion in and around construction sites as less roadway capacity is made available for all users. This is true for both our revenue operations as well as our deadhead operations as it would take more time for buses to move from bases to their revenue service routes. Therefore, it is imperative that a detailed analysis of all transit service impacts for the preferred alternative(s) be disclosed in the FEIS to ensure additional operating costs and buses/operators needed are adequately identified for budgeting purposes, if they are not able to be fully mitigated via capital improvements. For each preferred alternative(s) that moves forward into the FEIS, Sound Transit should quantify the expected increases in transit travel time due to detour routes and/or increased traffic congestion for each affected route so that specific mitigation measures can be identified and assessed.</p>	<p>Please see responses to comments 1, 2, and 3 above. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
6	<p>The full closure of transit pathways along arterials that have no alternate pathways available is unacceptable to Metro and its customers. These impacts must be accurately disclosed in the FEIS and alternatives resulting in these closures should be modified to avoid these impacts or removed from consideration in the FEIS. An example of this unacceptable impact is the night and weekend closure of Delridge Way Southwest between 23rd Ave Southwest and South Dakota Street under alternatives DEL-1a, DEL 1-b, DEL 2-a, DEL 2-b, DEL-3, and DEL-4. Metro Routes 120 (future H Line) and 125 have no alternate pathway under any alternative that has concurrent construction along Southwest Genesee Street where either full or night and weekend closures would also take place. Further, Southwest Genesee Street between Delridge Way Southwest and SW Avalon Way has such an extreme grade that it is unclear whether 60-foot articulated buses (such as those that are utilized for Route 120/H Line) would be able to operate on that street. Coach tests would be needed to confirm feasibility.</p>	<p>See response to comment 1 above.</p>

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#	Comments	Responses
7	<p>As noted in the DEIS, construction of the WSBLE project would greatly impact transit facilities. We would also like to request better clarity around facilities impacts under each alternative that moves forward into the FEIS (e.g., base access restrictions, closures and temporary/permanent reductions in base capacity, temporary removal of bus stops, layover areas, comfort stations, etc.). These impacts must be accounted for and planned to ensure success of the project and operability of service during and after construction. As the DEIS is currently written, it is unclear which alternatives are more feasible from a mitigation standpoint. Specific areas of concern around construction impacts that need to be addressed include, but are not limited to:</p> <ul style="list-style-type: none"> • Bus stop closures and replacements along reroutes (all alternatives) • Trolley bus wire (overhead catenary system) deactivation, temporary removal (if needed), and replacement (all alternatives) • Replacement of SODO busway layover spaces and comfort station, temporarily (all alternatives) and permanently (SODO-1a/1b) • Replacement of SODO busway capacity on parallel surface street with transit priority treatments (all alternatives) and permanently (SODO-1a/1b) • Loss of layover and comfort station infrastructure and replacements in Chinatown- International District and Pioneer Square (CID-1a/1b) • Access impacts to Central/Atlantic base and Metro's Employee Garage access (6th Ave S between S Massachusetts St and S Royal Brougham Way) (CID-2a/2b) <p>Loss of Ryerson primary base access and replacement (CID-1a)</p> <ul style="list-style-type: none"> • Reduced Ryerson base capacity (CID-1a) • Loss and full replacement of Ryerson Base within a reasonable geographic vicinity of its existing location (CID-1b) • Loss and full replacement of Metro's Marketing Distribution Center, Drug/Alcohol Testing Center, and oversized vehicle parking between 6th Ave and existing rail ROW (all alternatives) • Limitations on expandability of Metro's Transit Control Center (CID-2a/2b) <p>Although the project is currently only at the high-level planning stage, we would like to ensure Sound Transit is aware of Metro's plan to electrify all bases prior to 2035 (including those located in the vicinity of the WSBLE project). Unplanned base disruption and reduction in capacity at Metro's bases during construction of our electrification projects would impact the cost and potentially the schedule feasibility of our planned electrification, as well as our ability to maintain service levels during construction of the WSBLE. Therefore, we request that Sound Transit acknowledge our project and its planned timeline, and work with us to minimize any impacts that the WSBLE could have on our base electrification projects once they are underway. Given the early stage of both projects, we recommend that coordination of the two projects be included as part of the interagency construction mitigation work.</p>	<p>Please see responses to comments 1 and 2 above. Also see response to comment 14 in the attached spreadsheet. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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8	<p>We believe Sound Transit should initiate development of a construction/traffic management and mitigation plan as soon as the preferred alternative(s) has been selected. According to current schedule, there will be less than three years between Board selection of a preferred WSBLE alternative(s) and commencement of construction (i.e., closure of SODO Busway). This plan should include a traffic monitoring program that would evaluate traffic conditions, including those for buses, freight, and general-purpose traffic to ensure traffic detours and mitigation measures respond effectively to traffic patterns as they change during construction.</p>	<p>See response to comment 2 above.</p>
9	<p>The FEIS should quantify the magnitude of the impact in detail for all the potential impacts to Metro, with sufficient detail to allow discussion and consideration of whether and how mitigation measures can be employed to reduce the impact. Understanding the impacts of specific alignment options and how impacts will be mitigated is critical to allow Metro to continue to effectively provide transit service under the Build condition. For instance, Alternative CID-1b would require permanent closure of Ryerson bus base, a facility that is critical to Metro operations and</p> <p>maintenance. The DEIS does not include any discussion of mitigation for the permanent closure of Ryerson Base, which is unacceptable due to the magnitude of impact to Metro. Because the closure would occur at the outset of construction, full replacement would be required by Sound Transit by start of construction. Given that full replacement of Ryerson base appears infeasible, either due to schedule or cost, we request that Alternative CID-1b be removed from consideration as Sound Transit identifies a preferred alternative in the FEIS. As described in the DEIS, Preferred Alternative SODO-1a and Option SODO-1b would permanently close the SODO Busway to buses to accommodate the light rail guideway. This closure would eliminate existing layover areas and a recently built comfort station, would adversely affect both revenue and deadhead operations, and would increase bus travel time to bases. Metro requests that Sound Transit work with Metro and SOOT on mitigation, which would include locating/approving new layover space, relocating the existing comfort station to the new layover space, and providing transit priority on 4th Avenue South between S Lander Street and Edgar Martinez Drive, which could take the form of curb running transit only lanes or extended queue jumps at S Lander and S Holgate streets (or other combinations of transit-priority treatments that provide a similar travel time and speed benefit as the SODO Busway). Since the construction of the SODO segment could begin within a few years, these mitigation strategies will need to be fully assessed, designed, and implemented prior to construction and would also apply to the Build condition.</p>	<p>See responses to comment 2 above. Additional information regarding impacts from the closure of the SODO Busway, as well as potential mitigation measures, has been added to the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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#	Comments	Responses
10	<p>Alaska Junction• Alternatives WSJ-3a/b, WSJ-4, and WSJ-5 are preferred by Metro as they would offer a superior transit integration/transfer experience with station entrances on the north and south sides of SE Alaska St. This configuration would allow for transfers to be completed without the need to cross a street, offering a seamless transfer experience. • WSJ-1 would locate station entrances south of SE Alaska St, which would require a street crossing to access buses traveling WB (outbound) through Alaska Junction (headed ultimately to the south or north) • WSJ-2 would provide the poorest connectivity of the Alaska Junction station options. It is the furthest from California Ave and would not directly connect to Metro 2050 Connects Route 1040. • For all alternatives, Metro requires four layover spaces. Work to date in the DEIS does not adequately identify location of, nor pathway to/from these spaces, or whether they would be on- or off-street. Alternatives WSJ-1, WSJ-3a/b, WSJ-4, and WSJ-5 would require a layover circulation pattern to/from SE Alaska St west of Fautleroy Way SW that presents feasibility challenges including travel on narrow streets, residential streets, and steep grades that are unresolved in the DEIS. Similarly, the station location straddling/east of Fautleroy Way SW (Alternative WSJ-2) presents limited on-street options for layover due to very limited circulation possibilities in the area bounded by Fautleroy Way SW, SW Alaska St and 35th Ave SW. The DEIS does not propose a feasible layover solution, either on- or off-street for this alternative. Avalon • All station alternatives would require street crossings for transfers to one or more routes. Most transfers would occur from Metro's future Route 2021, which will travel along 35th Ave SW. While there is no preferred Avalon station alternative based on transit integration analysis, the specific station alternatives connect to preferred Alaska Junction and Delridge station alternatives as described in the sections immediately above and below. • Metro does not require layover at this station location. Delridge • The Delridge Station will have the highest percentage of bus-rail transfers of all WSBLE stations, so the transfer environment should be of the highest quality and as seamless for riders as possible. • Alternatives DEL-1a/b, DEL-2a/b would provide superior transit integration for transit customers with the high and low guideway station design between SW Dakota Street and SW Genesee Street. Northbound transfers would require deviations off Delridge Way SW onto 25th Ave SW (DEL-1a/b) and 26th Ave SW (DEL-2a/b). With transit priority measures, including queue jumps, rebuilt streets for transit only operations, and transit only signals, detour travel time would be minimized while providing seamless and safe northbound transfers. Southbound buses would stop on Delridge Way SW, directly adjacent to the station. These station options would also provide the best opportunity for mixed use development further enhancing the attractiveness for transit customers. • Alternatives DEL-3 and DEL-4 would also provide seamless transfers with station entrances on the east and west side of Delridge Way SW. Deviation</p>	<p>Please see response to CCG2 in Table 7-1. Also see response to comment 5 in the attached spreadsheet. Sound Transit has continued to work with the City of Seattle and other stakeholders, including Metro since the WSBLE Draft EIS to refine station locations and designs to maximize ridership, access, and passenger experience. Sound Transit, the City of Seattle, and King County Metro have continued to coordinate on layover spaces. The layover locations agreed to for this Final EIS analysis are shown in Appendix J, Conceptual Design Drawings</p>

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	<p>of buses would not be required. • Alternatives DEL-5 and DEL-6 provide the most challenging connectivity and transit integration of the Delridge station alternatives. The Andover St station alternatives would require bus routing to deviate from Delridge Way to SW Dakota St, 26th Ave SW, and SW Andover St.</p> <p>Like DEL-1a/b, DEL-2a/b, these deviations would require transit priority measures, including queue jumps, rebuilt streets for transit only operations, and transit only signals. However, under these alternatives southbound buses would also need to deviate to provide station access. The location of the station on SW Andover St presents challenges for transit operations, transit safety, and pedestrian safety as SW Andover St is heavily trafficked by large vehicles and trucks accessing the Nucor Steel Factory. Buses would need to compete with truck traffic while traveling on SW Andover St. Passengers transferring to the station via northbound buses would be required to cross to the northside of SW Andover St to access the station unless a station entrance/mezzanine access is provided on the south side of Andover Street. • Metro does not require layover at this station location. SODO • Alternatives SODO-1band SODO-2 provide superior transit integration with east/west stops (those routes, e.g., Route 50, will generate the most transfer activity) closer to station entrance compared to SODO-1a. • For all alternatives, Metro requires 2 layover spaces. Layover would be provided in an off-street loop either east of or west of the station.</p>	
11	<p>Chinatown-International District• All station alternatives {CID-1a, CID-1b, CID-2a, CID-2b) provide a similar transit integration experience once completed. East-west transit integration would be identical across all alternatives. • For north-sound connectivity Alternatives CID-1a and CID-1b would offer a more seamless southbound transfer with a station entrance on the west side of 4th Ave S, but this benefit is greatly outweighed by the operational and facility impacts to Metro under the CID-1a and CID1-b alternatives. • Despite similarities in the experience after completion, some alternatives have much larger and substantial impacts during the extended construction period.</p> <p>Referring to our comments on construction impacts, Alternatives CID-1a and CID-1b, when compared to Alternatives CID-2a and CID-2b, would result substantially more delays and disruptions for customers, added operating service hour costs, and a substantial increase in the number of buses needed to deliver the same amount of service for an extended period due to the magnitude of intersection/roadway closures. • Metro does not require layover at this station location. Midtown• Alternative DT-1 (5th Ave) provides a superior transfer connection to the RapidRide G Line, which will be the primary connecting bus route, compared to Alternative DT- 2 (6th Ave). • The RapidRide G Line will have buses with doors on both sides and can stop on either side of the one-way streets. It will be able to provide a seamless transfer experience under Alternative DT-1 (5th Ave) at the Madison & 4th Ave station</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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	<p>entrance. This stop would serve both inbound and outbound travelers with the G Line turning around at 1st Ave to begin its outbound trip. • The station entrances for Alternative DT-2 (6th Ave) would require street crossings and walks/bikes/rolls up steep grades for bus-rail transfers since a stop on Spring St between 5th and 6th Aves is infeasible at this time. • Metro does not require layover at this station location.</p> <p>Westlake• Alternative DT-1 (5th Ave) provides better integration with connecting transit routes than Alternative DT-2 (6th Ave) with station entrances along Pike and Pine Streets. Alternative DT- 2 (6th Ave) shifts station entrances north to Pine St and Olive Way. • Metro does not require layover at this station location. Denny• Alternative DT-1 (Denny) provides better integration with connecting transit routes than Alternative DT-2 (Terry). Alternative DT-1 (Denny) would provide seamless transfers for north and southbound bus routes with the station located underneath Westlake Ave. • Alternative DT-2 (Terry) would require one or more street crossings for transfers from north and southbound bus routes, and its location on Terry Ave north of Denny Ave presents challenges for east-west transit integration because of its grade and limited sidewalk with on Denny Ave. • Metro does not require layover at this station location. South Lake Union • Alternative DT-1 (Harrison) provides such vastly better transit integration with connecting bus</p> <p>routes than Alternative DT-2 (Mercer) that Metro recommends against selecting the Alternative DT- 2 (Mercer) station option as part of preferred alternative chosen to move forward with in the FEIS.</p> <p>Harrison St. is a future east/west transit corridor (as identified in the Seattle Transit Master Plan) and is anticipated to serve multiple future routes. Further, Alternative DT-1 (Harrison) provides a direct connection to the RapidRide E Line (Metro Connects Route 1001), which is the highest ridership bus route in Washington State. The E Line provides critical and frequent accessibility to points north along Aurora Ave N, including Fremont, Wallingford, Woodland Park Zoo, Green Lake, Greenwood, and City of Shoreline. • Under Alternative DT-2 (Mercer) there would be no feasible connection to the E Line due to the configuration of Aurora Ave/SR 99 in the vicinity of the station. Riders connecting to/from the north would be forced to travel south past the South Lake Union station and through north downtown to connect to Link at Westlake Station. This would add an average of 5-10 minutes of additional travel time. • Metro does not require layover at this station location. Seattle Center• Alternative DT-1 (Republican) provides better integration with connecting transit routes than Alternative DT-2 (Mercer). • Alternative DT-2 (Mercer) would require longer walks/rolls and more street crossings than Alternative DT-1 (Republican) to make bus-rail transfers. • Metro does not require layover at this station location. Smith Cove • All alternatives</p> <p>{SIB-1, SIB-2, and SIB-3) would offer a similar transit integration experience, with terminating routes stopping then</p>	

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	<p>laying over inside the station, and through routes stopping along either side of Elliot Ave W. • Alternative SIB-1 would be located west of Elliot Ave W, requiring a street crossing for northbound transfers. Similarly, Alternatives SIB-2 and SIB-3 would require a street crossing, but for southbound transfers due to the station location being east of Elliot Ave W. • For all alternatives, Metro requires 12 layover spaces. Layover would be provided in an off-street facility within the station footprint (shown representatively in Appendix J - station design drawings). Interbay • All alternatives (IBB-1a, IBB-2a/2b, and IBB-1b/IBB-3) would offer a similar transit integration experience, with one street crossing required (side of street depending on alternative) for through routes to/from Magnolia. • For all alternatives, Metro requires 4 layover spaces.</p> <p>Layover would be provided adjacent to the station (shown representatively in Appendix J - station design drawings). Ballard• The 14th Ave Station Alternatives (IBB-1a/1-b, IBB-2a) would offer a better transit integration experience than the 15th Ave Station Options (IBB-2b and IBB-3) because no street crossing would be required for transfers. • For all alternatives, Metro requires 3 layover spaces. Layover would be provided adjacent to or near the station.</p>	

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
0	1-01	2	Text revision	General/Both	General/None	N/A	Steve Crosley	Intro states "project would provide fast, reliable light rail in Seattle". Doesn't 1 Line and soon to be 2 Line already provide this? Revise statement to say "project would provide fast, reliable light rail in Seattle as a complement to existing 1 and 2 Lines"	Existing light rail lines are mentioned elsewhere in the Transportation Technical Report. No change.
1	3-01	Table	Table revision	General/Both	General/None	N/A	Matthew Crane	Since the potential impacts are being categorized into short-term (construction) and long-term (build), suggest doing a similar categorization within this summary table of findings to help guide the reader.	Bullet points within the summary chapter are broken out separately within the summary table.
2	3-02	Table	Table revision	General/Both	General/None	N/A	Matthew Crane	Under the summary of Transit potential impacts regarding the SODO busway, the term "temporary" should be clarified as a year duration, given the overall construction period could last 10 years.	Deleted word "temporary." Construction impact durations are discussed later in the section.
3	3-02	Table	Table revision	General/Both	General/None	N/A	Matthew Crane	Suggest listing the potential closure of Ryerson bus base as a separate bullet and elaborating on the significant impacts this would cause to Metro both during construction and in the build condition. One sentence doesn't convey the gravity of the impact.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
4	2-02	4	Text revision	General/Both	General/None	N/A	Matthew Crane	I would avoid using the word "today" to describe "existing conditions" which are defined as 2019. Suggested replacing with "As of 2019".	Removed references to "today."
5	2-14	1, 2	Impact/mitigation	Ballard	SODO	Construction	Matthew Crane	Would the temporary removal of tracks between SODO and Stadium stations not impact ST's access to their main OMF? Would OMF-E over in Bellevue be able to accommodate all the light rail vehicles needed to run service on the lines north of SODO during that 6-7 week period? This is not a Metro impact but I'm wondering if this could be a potential impact during the construction period of some alternatives.	Thank you for your comment; this has been shared with the applicable design staff. More detailed evaluation of non-revenue service train movements and capacity of Operations and Maintenance Facility-East to accommodate light rail vehicles operating north of SODO will be conducted during Phase 3 of the project.
6	2-14	6	Impact/mitigation	Ballard	SODO	Construction	Matthew Crane	The level of detail provided in this section is not sufficient to clarify the magnitude of the construction impacts. Because of this, it is difficult to understand the type and scope of mitigation measures needed to address the impacts. The narrative provided in this paragraph describing how mitigation of construction impacts might be mitigated is insufficient given the potential magnitude, duration, and extent of the impacts. Also would like the DEIS to include transit priority measures on bus bridge and bus routes that would need to occur to mitigate these impacts and keep transit moving.	More detailed analysis of construction impacts on routing and speed and reliability along with refined potential mitigation strategies have been identified in the transit section of the Final Environmental Impact Statement (EIS). For example, specific transit pathway impacts have been identified around Delridge Station and specific transit speed and reliability options have been developed for the SODO busway closure. Mitigation was developed in coordination with KCM and the City of Seattle and is more detailed than was described in the Draft EIS. However, some mitigation details are not known until further design is completed and the project moves closer to establishing permitting requirements, so there is still some uncertainty about the exact mitigation specifics.
7	3-01	5	Impact/mitigation	West Seattle	General/None	Construction	Matthew Crane	Carryover comment from ADEIS (Comment #19) regarding phrasing of potential construction impacts. It is almost a certainty that there will be construction impacts to transit regardless of the Build alternative selected.	Comment noted. Specific impacts were identified where appropriate and additional information has been added to the Final EIS.
8	3-01	6	Text revision	Ballard	General/None	Build	Matthew Crane	If the movable bridge is still being considered as an alternative for crossing the ship canal next to the existing Ballard Bridge, I think there should be a caveat that some of the travel time and reliability benefits for that specific alternative may not be as significant as the fixed bridge and tunnel alternatives.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
9	3-02	2	Impact/mitigation	Ballard	General/None	Construction	Matthew Crane	Carryover comment from ADEIS regarding phrasing of potential construction impacts. It is almost a certainty that there will be construction impacts to transit regardless of the Build alternative selected.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
10	3-02	4	Text revision	General/Both	General/None	N/A	Matthew Crane	I would avoid using the word "today" to describe "existing conditions" which are defined as 2019. Suggested replacing with "As of 2019".	Removed references to "today."

ID	Page No.	Figure	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response	
11	3-02		Table revision	General/Both	General/None	N/A	Matthew Crane	Shouldn't this table also include forecasted regional ridership for the No Build and Build Alternatives? Seems odd that the narrative describes how regional transit ridership is expected to grow, but that is not reflected in the table below that text.	Regional ridership forecasts are provided later in the section, under "Environmental Consequences."	
12	3-02	5	Text revision	West Seattle	General/None	N/A	Matthew Crane	The Water Taxi is now part of Metro, so maybe just remove "among other transit service providers" or replace with "that operates between the Downtown Seattle ferry terminal on Alaskan Way and the West Seattle taxi pier on Harbor Ave"	This has been added to the Final EIS.	
13	3-08	6	Text revision	West Seattle	General/None	N/A	Matthew Crane	Would it be worth mentioning that Metro Connects was recently updated in 2021? At the end of the paragraph, suggest changing "planned" to "envisioned" since Metro Connects is a visionary, long-range planning document and would require more resources than currently budgeted to achieve. "Planned" sounds more definitive than this reality.	Text has been updated to note the visionary nature of Metro Connects. Methods and Assumptions document updated to reflect the 2050 update to Metro Connects, which was assumed in the analysis.	
14	3-10	9	Impact/mitigation	West Seattle	General/None	Build	Matthew Crane	This section notes that layover spaces will be accommodated, but what about new Comfort Stations to support operators at these layover spaces? I assume at stations there will be some sort of Comfort Station available, but I think it should be stated here (and other places in this section where permanent layover impacts are noted).	Potential locations for comfort stations were identified for all alternatives and reviewed in collaboration with King County Metro.	
15	3-12	2	Impact/mitigation	West Seattle	SODO	Build	Matthew Crane	Similar comment to #14 in that Comfort Stations to support new layover spaces isn't mentioned at all. The end of the paragraph mentions "numerous existing layover areas that would be eliminated" but doesn't mention Comfort Stations that support these areas.	See response to #14.	
16	3-17		Figure	Table revision	West Seattle	General/None	N/A	Matthew Crane	Recommend putting numbers on the thresholds for the different LOS points so the reader can understand quickly what is the threshold for LOS A, B,C, etc.	Section 3.2.3 of Appendix N.1, Transportation Technical Report, of the WSBLE Draft EIS and the West Seattle Link Extension Final EIS define the transit L.O.S. thresholds.
17	3-18		Figure	Table revision	West Seattle	General/None	N/A	Matthew Crane	Recommend putting numbers on the thresholds for the different LOS points so the reader can understand quickly what is the threshold for LOS A, B,C, etc.	See comment #18.
18	3-18	1-2	Table revision	West Seattle	General/None	Build	Matthew Crane	There should be a table under the Reliability sub-section that shows how this metric improves/changes from the No Build to 2032 and 2042 Build Alternatives.	This information has been provided in narrative form, as it is a qualitative metric for future conditions.	
19	3-19	1	Text revision	West Seattle	General/None	Build	Matthew Crane	How is standing-room-only conditions in 2042 considered LOS A for passenger loading? I thought it was based on the amounts of seats available or the amount of space available to each passenger on light rail vehicles? I would think LOS A on light rail would be something like "most seats are occupied, but there are still some available".	The L.O.S. ratings for standing-oriented transit, which includes light rail, are from the Transit Capacity and Quality of Service Manual, 3rd Edition. No change.	
20	3-20	1	Impact/mitigation	West Seattle	General/None	Construction	Matthew Crane	Since this section of the report seems to focus only on identifying impacts, I would suggest removing statements regarding how ST would mitigate these impacts to the latter section of the document.	Discussion of mitigation has been consolidated in the Final EIS.	
21	3-20	4	Impact/mitigation	West Seattle	General/None	Construction	Matthew Crane	Bus routes can be delayed because of a longer re-route due to a temporary or full roadway closure.	This has been noted in the Final EIS as applicable, thank you.	
22	3-25	1	Impact/mitigation	West Seattle	Alaska Junction	Construction	Matthew Crane	Please provide a reason why WSJ-1 alternative has minimal effects on transit operation (tunnel option, outside roadway ROW, etc.).	More detailed descriptions of transit impacts have been included in the Final EIS.	
23	3-27	1	Impact/mitigation	West Seattle	General/None	Build	Matthew Crane	Proposed long-term mitigation language seems way too vague. Need something more specific.	Chapter 3 of the Final EIS Transportation Technical Report includes more detailed mitigation for the preferred alternative as supported by additional design work performed in coordination with King County Metro and Seattle Department of Transportation.	

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
24	3-27	2-5	Impact/mitigation	West Seattle	General/None	Construction	Matthew Crane	The level of detail provided in this section is not sufficient to clarify the magnitude of the construction impacts. Because of this, it is difficult to understand the type and scope of mitigation measures needed to address the impacts. The narrative provided in this paragraph describing how construction impacts might be mitigated is insufficient given the potential magnitude, duration, and extent of the impacts.	See comment #6.
25	2-01	6	Text revision	West Seattle	General/None	N/A	Virginie Nadimi	Update sentence about West Seattle Bridge as decision for repair and reopen the bridge in 2022 was made. Include language about the eventual replacement of WSB still necessary in the future.	The Final EIS has been updated to reflect the current status of the West Seattle Bridge.
27	2-13	3	Impact/mitigation	Ballard	General/None	Construction	Virginie Nadimi	The shift in traffic during traffic could also impact bus operations and bus speed and reliability. Even if the exact impact has not been determined, this needs to be mentioned briefly in this section.	Added mention of buses to this section. The impacts of roadway closures on bus operations are addressed in Section 4 -- Arterials and Local Streets.
28	3-02	1	Text revision	West Seattle	General/None	N/A	Virginie Nadimi	Specify opening date for RR H Line as that is now known (Sept 2022.)	Updated text.
29	3-09	9	Text revision	West Seattle	General/None	N/A	Virginie Nadimi	Text edit needed: The Route 50 does not serve Downtown Seattle. Outside of WS, it provides service to the VA Medical Center, Beacon Hill, Columbia City, Seward Park, and the Othello Station. Route 57 provides service to Downtown Seattle.	This has been corrected for the Final EIS.
30	3-03	Table	Table revision	West Seattle	General/None	N/A	Steve Crosley	As of DEIS publication routes 37, 116, 118, 119, and 178 are indefinitely suspended	The existing condition is defined as 2019, so transit routes may differ from 2022 service patterns.
31	3-01	5	Impact/mitigation	West Seattle	General/None	Construction	Steve Crosley	Transit construction would in fact disrupt Metro operations and access. Saying that it "could disrupt" is factually incorrect and misleading to the decision maker. Please correct this statement	See comment #7.
32	3-02	2	Impact/mitigation	Ballard	General/None	Construction	Steve Crosley	Transit construction would in fact disrupt Metro operations and access. Saying that it "could disrupt" is factually incorrect and misleading to the decision maker. Please correct this statement	See comment #7.
33	3-05	Table	Table revision	West Seattle	General/None	N/A	Steve Crosley	Combined frequencies shown in table do not make sense. While no routes stop on West Seattle Bridge, combined peak period headways would reach closer to single minutes. Please explain methodology and show full table of routes	Metric has been broken out for all-day and peak-period routes. Additional detail is provided in Transportation Technical Report appendices.
34	3-31	Table	Table revision	West Seattle	General/None	N/A	Steve Crosley	Combined frequencies shown in table do not make sense. In Pioneer Square, SLU and Ballard combined peak period headways would reach single minutes or less. Please explain methodology and show full table of routes.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
35	3-30	Table	Technical/data	Ballard	General/None	N/A	Matthew Crane	Why are the transit travel time and frequency metrics only provided for the PM peak period, while other metrics (reliability and crowding) providing for both peak periods? Request providing AM and PM results for all transit metrics.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
36	3-37	2	Impact/mitigation	Ballard	SODO	Build	Matthew Crane	Referencing section 3.2.2.2 does not provide an explanation on the magnitude of the effect of closing Ryerson bus base under Option CID-1b. This should have 1-2 additional sentences in this paragraph to briefly describe the magnitude of this impact to transit facilities (# of routes, # of buses, etc.). A brief sentence is not sufficient here. Some other alternatives may require temporary closure/relocation of other Metro facilities such as the Transit Control Center. Please check if those support facilities along 6th Ave S could be impacted and mention them here if so.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
37	3-37	2	Impact/mitigation	Ballard	SODO	Build	Matthew Crane	Regarding CID-1a/1b, should ST continue to assume the NB BAT lane on 4th Ave is removed instead of removing a GP travel lane? I don't recall how much bus service we forecast to have in the 2042 Build condition, but we may still want this facility to exist. From the paragraphs below, it seems like there would still be 40-60% of 2019 bus service operating on this pathway, which is probably still quite a significant number! Also, this lane would be taken during construction, when 100% of existing service is operating, so saying it was removed due to fewer buses operating is incorrect when including construction.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
38	3-40	6	Technical/data	Ballard	General/None	Build	Matthew Crane	How is a scenario where only the Ballard MOS is built (and not the WS MOS) have a higher ridership (140k) than a scenario where both Ballard and WS MOSs are built (132k)? Understand the full build ridership is higher than either scenario (173k), but this MOS to MOS comparison is a bit baffling. Should explain a bit further why there is a difference.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
39	3-41	2	Technical/data	General/Both	C-ID	Build	Matthew Crane	At stations with higher transfer ridership like C-ID and Westlake, I would suggest separating out the ridership numbers between true boardings (ie walk-rail, bus-rail, etc.) and rail-rail transfers.	Bus-rail and rail-rail transfers have been separated out in the Final EIS.
40	3-09	5	Text revision	West Seattle	General/None	Build	Steve Crosley	Statement that "By year 2042, with both West Seattle and Ballard Link light rail service in operation, most RapidRide, frequent, and express routes from Burien, White Center, High Point, and other areas south of the Alaska Junction would end at the Alaska Junction" is incorrect and needs to be corrected. 1041/H Line and 1042 will not connect at Alaska Junction, only Delridge. 2021 will only connect at Avalon.	Text has been clarified and updated.
41	3-09	9	Text revision	West Seattle	General/None	Build	Steve Crosley	Delete "57" from paragraph. Route 50 and 57 are not similar at all in routing	Text has been clarified and updated.
42	3-10	1	Text revision	West Seattle	General/None	Build	Steve Crosley	2003 is not similar to C Line and should be corrected. C Line is an all day RapidRide route and 2003 is envisioned as an express route. They completely different service types.	Text has been clarified and updated.
43	3-20	6	Text revision	West Seattle	SODO	Construction	Matthew Crane	Seems like Routes 5 and 102 would also be impacted by the temporary closure of S Lander St in this area	There are no impacts to Routes 5 or 102.
44	3-35	9	Text revision	General/Both	Smith Cove	N/A	Matthew Crane	I'm not sure if the term "active bay" has been defined in the document up to this point. Please include a brief explanation of what this is and how it's different from layover spaces.	"Active bay" has been defined in the Final EIS.
45	3-37	1	Text revision	Ballard	Ballard	Build	Matthew Crane	Where would these bus zones be located? Their current/existing location under No Build or somewhere different? Please clarify.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
46	3-41	Table	Table revision	Ballard	General/None	Build	Matthew Crane	Table 3-29 should show the different MOS ridership scenarios that are discussed on Page 3-40	This section has been reorganized; comment no longer applicable.
47	3-46	2	Impact/mitigation	Ballard	General/None	Construction	Matthew Crane	It would be preferable for Metro to operate trolley routes with trolley buses as much as possible during construction, in alignment with King County's Strategic Climate Action Plan goals to maximize utilization of this fleet of zero-emissions buses.	Thank you for your comment. All transit service plans in the Final EIS were reviewed by Metro staff.
48	3-48	4	Impact/mitigation	Ballard	C-ID	Construction	Matthew Crane	The impact of fully closing Seattle Boulevard would require the identification of a feasible alternative pathway to re-route affected buses into/out of the downtown Seattle area and all of the buses that are going into/out of service from the bases. The lack of roadway capacity (partial closure of 4th Ave) would increase GP congestion, directly affecting Metro routes. Much more detailed analysis will be needed in FEIS once a preferred alt has been selected to minimize impacts to Metro revenue and deadhead service.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
49	3-49	1	Impact/mitigation	Ballard	C-ID segment	Construction	Matthew Crane	Partial closures of 6th Ave south of Royal Brougham may also impact access to the parking garage that bus operators (and other Metro support staff) utilize for Ryerson, Atlantic, and Central bases.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
50	3-49	1	Impact/mitigation	Ballard	C-ID	Construction	Matthew Crane	What does "short period" mean for the closure of the intersection of 5th/Jackson? This is a critical intersection for Metro bus and trolleybus service, as well as the streetcar. The roadway closures discussed in this section appear to be at least 6 months or longer. Clarify duration or, if this could be limited to weekends only, remove from the narrative.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
51	3-49	3	Impact/mitigation	Ballard	C-ID	Construction	Matthew Crane	I am skeptical that Option CID-2b wouldn't have partial or full roadway closures along 5th Ave south. Please justify.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
52	3-61	1	Impact/mitigation	Ballard	Ballard	Construction	Matthew Crane	Please clarify the transit routes that would be affected by the roadway closures	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
53	3-61	2	Impact/mitigation	Ballard	Ballard	Construction	Matthew Crane	These statements are too vague on the roadway closure location, duration, and affected routes. Please clarify.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
54	3-65	3	Impact/mitigation	General/Both	General/None	Construction	Matthew Crane	For facilities impacts, this should include mitigating impacts to operator Comfort Stations at layover areas (ie building new or temporary comfort stations)	See comment #14.
55	3-65	5	Impact/mitigation	Ballard	General/None	Construction	Matthew Crane	For mitigation of trolley bus route impacts, it would be preferable to Metro to operate trolley routes with trolley buses as much as possible during construction, in alignment with King County's Strategic Climate Action Plan goals to maximize utilization of this fleet of zero-emissions buses.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
56	3-65	2	Impact/mitigation	Ballard	General/None	Construction	Matthew Crane	The level of detail provided in this section is not sufficient to clarify the magnitude of the construction impacts to transit service. Because of this, it is difficult to understand the type and scope of mitigation measures needed to address the impacts. The narrative provided in this paragraph describing how construction impacts might be mitigated is insufficient given the potential magnitude, duration, and extent of the impacts. What is provided in these paragraphs seems too vague and non-committal and is subject to significant variations in interpretation depending on who the reader is.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
57	3-11	2	Impact/mitigation	West Seattle	Delridge	Build	Steve Crosley	Preferred Alternative DEL-1a and Option DEL-1b would require a left turn queue jump from NB Delridge at Genesse. This alternative would also require a transit only signal on Dakota at Delridge for LT to NB movements	Transit station access refinements, focused on the Preferred Alternative, have been incorporated into the Final EIS design drawings and continued through the preliminary engineering phase of the project. These meetings include Sound Transit, Metro, and the City of Seattle and have resolved access, queue jump signals, pickup/drop-off, and other issues.
58	3-11	2	Impact/mitigation	West Seattle	Delridge	Build	Steve Crosley	Preferred Alternative DEL-2a* and Option DEL-2b* would require a left turn queue jump from NB Delridge at Genesse	Added text in Section 3 of Appendix N.1, Transportation Technical Report, of the Final EIS, describing the need for northbound transit priority for all alternatives to access the station.
59	3-11	2	Text revision	West Seattle	Delridge	Build	Steve Crosley	Please explain asterisk for Preferred Alternative DEL-2a* and Option DEL-2b*, DEL-4*, and Del-6*	The asterisks indicated the need for third party funding in the DEIS. However, the asterisks have been removed from the Final EIS. See Chapter 2 for additional information.
60	Appendix J - 64	N/A	Text revision	West Seattle	Delridge	Build	Steve Crosley	Remove drop off shown on 23rd Ave for Alternative DEL-3 and Alternative DEL-4*. This is a narrow dead end street and is not appropriate for PU/DU	Comment noted. Pick-up and drop-off locations may be refined with the City of Seattle if this alternative is selected. However, there was a desire to have pick-up/drop-off access on both sides of Delridge Way.

ID	Page No.	Figure	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
61	3-11	2	Impact/mitigation	West Seattle	Delridge	Build	Steve Crosley	For Alternative DEL-5 and Alternative DEL-6*, for the configuration shown in Appendix J - 66, Metro buses would require a transit only signal at Dakota street to facilitate inbound and outbound movements. Similarly, transit priority would need to be provided along 26th and along Andover. This alternative would result in bus-truck, ped-truck, and ped-bike conflicts with Nucor Steel. A left turn transit queue jump from Andover to Delridge would be required	See comment #57. If an alternative other than the current preferred alternative are selected, Sound Transit would work with King County Metro and the City of Seattle to refine station access details.
62	3-11	2	Impact/mitigation	West Seattle	Delridge	Build	Steve Crosley	For Alternative DEL-5 and Alternative DEL-6* please note/show bus stops on Delridge in current location for Route 3034 (similar to 50 today). Due to connections at Avalon and Junction stations, this route would not need to deviate	See comment #57.
63	3-12	NA	Technical/data	West Seattle	Delridge	Build	Matthew Crane	Please include a map showing the routing. And include key point so that the nearby context is understood and transparent (ie. SW Andover St is adjacent to Nucor Steel, context of the roadway on 25th and 26th, etc.) The station location and transfer environment is not clear without visuals for reviewers to understand the area.	Transit integration profile and station access maps have been updated in the Sound Transit Integration Technical Memorandum, which is an appendix to the Final EIS. Station diagram for the Preferred Alternative is shown. Proposed bus routing and active bus zones are shown on the maps.
64	3-12	2	Impact/mitigation	West Seattle	Delridge	Build	Virginie Nadimi	Both 26th Ave SW and 25th Ave SW are currently not up to City of Seattle's standards for streets carrying frequent or local transit. Both streets would require significant capital investments in order to allow for safe, fast, and reliable bus transit service. Those upgrades would require coordination with Metro and SDOT, and SDOT would need to approve those changes.	All bus routing pathways in Final EIS were reviewed with Metro and the City of Seattle; any pavement rehabilitation or curb reconstruction were noted as requirements to implement the pathway. Mitigation was developed in conjunction with Metro and City of Seattle.
65	3-35	10	Text revision	General/Both	General/None	Build	Matthew Crane	Modify last sentence of paragraph to say "In general, layover space and operator comfort stations would be allocated near the stations where bus routes terminate"	Updated text.
66	3-43	Figure	Table revision	General/Both	General/None	N/A	Matthew Crane	Recommend putting numbers on the thresholds for the different LOS points so the reader can understand quickly what is the threshold for LOS A, B,C, etc.	See comment #16.
67	3-45	4	Text revision	General/Both	General/None	Construction	Matthew Crane	Since this section of the report seems to focus only on impacts, then I would suggest removing statements regarding how ST would mitigate these impacts to the latter section of the document (Section 3.3.3)	See comment #20.
68	3-46	6	Text revision	General/Both	General/None	Construction	Matthew Crane	At sentence 4, suggest modifying to "Bus reliability and travel times could potentially degrade....." since partial or full roadway closures would both make transit service less reliable and also longer (due to re-routing and/or traffic congestion)	This section has been updated for the Final EIS.
69	3-56	Table	Table revision	Ballard	Downtown Segment	Construction	Matthew Crane	Under DT-1 roadway closures, I see a full closure for Cherry Street between 3rd Ave and 5th Ave, if this is only on Cherry street and doesn't affect the intersections crossing it, then I'm not sure how transit service is impacted, since we don't operate revenue-service buses on Cherry St? We don't operate any service on Cherry St between 1st Ave and 6th Ave, but there was temporary service between 1st and 3rd Avenue during the AWV Closure.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
70	3-14	5	Text revision	West Seattle	Alaska Junction	N/A	Virginie Nadimi	Typo. The last sentence should state "West Seattle stations". Delete "Junction" here.	Sentence has been revised.
71	3-15	6	Text revision	West Seattle	Delridge Segment	N/A	Virginie Nadimi	Typo. "Inn". Should be in.	Sentence has been corrected.
72	3-15	6	Technical/data	West Seattle	Delridge	N/A	Virginie Nadimi	Include the % difference in ridership data and be specific about the difference in land uses in this paragraph here so readers understand the choices and their potential impacts.	Paragraph has been revised; no longer applicable.
73	3-15	Table	Technical/data	West Seattle	General/None	N/A	Virginie Naddimi	Average transit route frequencies/headways shown in table 3 do not make sense. 21/22 min average frequencies seems too high. Please explain how this was determined. Also the paragraph below this chart conflicts with this data	Transit frequencies were derived by reviewing schedules produced by King County Metro. The Final EIS has reworded the text that describes the results in the table.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
74	3-22	3	Text revision	West Seattle	Delridge	N/A	Virginie Nadimi	The word "performance" here is awkward and confusing. Be specific about what is being impacted: transit speed, transit service, transit reliability, transit access ?? Unclear	Removed word "performance." The beginning of this section defines the types of impacts that construction could have, so no additional text added here.
75	3-23	Table	Table revision	West Seattle	Delridge	N/A	Virginie Nadimi	Formatting of this table is super confusing. Please revise table - the # buses per hour headers coupled with the closure length is not intuitive and confusing. Revise this table and all other similarly formatted tables in this report to make it more clear and easier to understand. If you need to make several tables to communicate the info, then do that. Right now there are too many factors being squeezed into one table which is confusing and overwhelming for readers.	Table has been reformatted.
76	3-11	3	Text revision	West Seattle	Avalon	Build	Steve Crosley	Bus stops noted on Avalon are incorrect (and Appendix J page 84). For routes continuing on 35th, buses must stop on 35th. They will not be able to make the LT stopping WB on Avalon, and will not be able to stop farside 35th once making the RT.	Comment noted. All bus routes and stops will be reconfirmed with King County Metro through the Final EIS and preliminary engineering phase of the project.
77	3-10	9	Text revision	West Seattle	General/None	Build	Steve Crosley	Please revise this sentence. Layover needs were assessed collaboratively, however impacts were not. The impacts described below do not reflect Metro comments through station area planning work. It is not appropriate to conflate "layover" and assessment of "impacts" in the same sentence.	Impacts and mitigation to layover were discussed with Metro for the Final EIS.
78	3-11	5	Text revision	West Seattle	Alaska Junction	Build	Steve Crosley	Sound Transit should identify feasible layover rather than just say "Layover spaces will be accommodated on-street near the station." There are many challenges to siting layover in the vicinity of Alaska Junction, including hills, narrow streets, etc. and this DEIS does not accurately reflect layover needs and impacts	Layover locations were collaboratively developed with Metro as part of the Final EIS.
79	3-11	5	Text revision	West Seattle	Alaska Junction	Build	Steve Crosley	WSJ-2 - Fauntleroy station is not mentioned here. Transit Integration for this alternative would be substantially more challenging than the other alternatives and layover would be even more challenging. If this alternative moves forward, Sound Transit should accurately describe transit integration and its challenges for this alternative.	The Final EIS focuses more on the Preferred Alternative; however, transit integration for this station was qualitatively described and compared to the Preferred Alternative.
80	3-12	2	Impact/mitigation	West Seattle	SODO Busway Segment	Build	Steve Crosley	While the DEIS describes transit priority treatments on 4th needed to mitigate the loss of the busway, it does not describe mitigation for the loss of layover spaces and associated comfort stations. The DEIS must describe how ST will mitigate the loss of layover.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
81	3-14	5	Technical/data	West Seattle	General/None	Build	Steve Crosley	Ridership discussion is confusing and we suggest that a table/matrix for all stations is shown together. Page 3-14 states for the 2042 Build alternative "ridership would increase to between 25,000 and 27,000 daily trips". However, if you add up ridership in Tables 3-13, 3-14, 3-15 for 2042 you get 20600-20700 boardings. Please review and explain or correct discrepancy.	System-wide transit trips and station boardings are two different metrics, so they are not comparable. Added text to clarify the difference.
82	3-20	1	Impact/mitigation	West Seattle	General/None	Construction	Steve Crosley	Language that ST would only "identify" new bus stops, layover, and comfort stations as part of construction mitigation in this sentence is insufficient and does not accurately address how ST would mitigate these construction impacts borne by Metro. Sentence should be revised to say "e.g., ST would identify, pay for, and construct new bus stops and/or layovers/comfort stations in a nearby location)"	Layover locations were collaboratively developed with Metro as part of the Final EIS. The Final EIS also clearly states that Sound Transit will implement agreed-upon improvements that mitigate for the impacts to transit facilities, which includes bus stops, layover, and comfort stations.
83	3-20	1	Text revision	West Seattle	General/None	Construction	Steve Crosley	Please describe what streets, assumed to be local streets in West Seattle, that detours would result in pavement damage	The Final EIS addresses detour routes on local streets generally for all alternatives, but for the PA, additional information has been added.
84	3-20	5	Impact/mitigation	West Seattle	General/None	Construction	Steve Crosley	DEIS states "analysis does not consider every short-duration transit impact from construction". This does not accurately describe impacts and must be revised to include any impact for any duration where construction would close roadways resulting in bus route impacts where no alternate pathway is viable.	Comment is noted, but it would be speculative to identify all detailed construction impacts prior to final design and a contractor being selected. The Final EIS includes new mitigation language that clarifies Sound Transit's role in developing transit construction operations plans and implementation of agreed upon mitigations to allow transit to operate on detour routes.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
85	3-12	All	Impact/mitigation	West Seattle	General/None	Build	Virginie Nadimi	The descriptions in the transfer environment paragraphs are simplistic and do not accurately portray the challenges that transit users would have when accessing the stations, especially crossings of multi-lane and very busy arterial streets. Describe how those potentially dangerous or uncomfortable (from a traffic safety perspective) crossings and station areas would be addressed.	More detailed descriptions of transfer conditions are provided in the Final EIS for the Preferred Alternative. Potential features to ease crossings or the transfer environment are incorporated into the station design, and the overall environment is described.
86	3-13	3	Text revision	West Seattle	General/None	Build	Virginie Nadimi	Specify the height of the elevated station alts and depth of the tunnels alts here.	A cross reference has been added to the design drawings appendix.
87	3-20	4	Text revision	General/Both	General/None	Construction	Virginie Nadimi	Change language from "could"/"may need to" to "would"/"would need to" in this paragraph. As written, the scale of impacts are misleading.	See the response to comment #7.
88	3-20	7	Text revision	West Seattle	SODO	Construction	Virginie Nadimi	Specify the duration of construction and the duration of the SODO busway closure in this paragraph.	Duration of SODO Busway closure added.
89	3-22	All	Text revision	West Seattle	General/None	Construction	Virginie Nadimi	Add the potential duration of construction closures in each of these paragraphs.	A cross reference has been added to the Construction-Related Roadway Modifications attachment, which specifies the duration of closures.
90	3-22	All	Text revision	West Seattle	General/None	Construction	Virginie Nadimi	Language is misleading as written. Change "could affect" (...) performance to "would affect" transit performance in each paragraph here were construction impacts to transit performance are described.	See comment #7.
91	3-24	N/A	Table revision	West Seattle	General/None	N/A	Virginie Nadimi	This version of this table shows why this table format does not make any sense - there is no transit on Andover St but yet there's still closure info in a column with # buses minimal per hour. Edit this table or make this into 2 tables. It does not make sense.	Tables and text in this section have been updated for clarity.
92	3-25	All	Text revision	West Seattle	Alaska Junction	Construction	Virginie Nadimi	Include the duration of construction/road closures in these paragraphs	See comment #89.
93	3-27	1	Text revision	General/Both	General/None	Construction	Virginie Nadimi	The "impacts would be addressed through ongoing coordination with ..." sentence is too vague. Sentence needs to be edited to communicate that Sound Transit will fund all improvements needed to mitigate impacts, including impacts to King County Metro and the City of Seattle.	Edited to confirm that Sound Transit would implement mitigation for project-specific impacts.
94	3-32	Table	Table revision	General/Both	General/None	N/A	Steve Crosley	Please explain what your intent is with "average span of service" and why you wouldn't just use the route with the greatest span, i.e., D-Line. This analysis shows incorrectly that there is only 11 hours of service across the Ballard Bridge.	The methodology for this measure has been updated for the Final EIS, to present the route with the longest span of service, along with an average. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
95	3-60	Table	Table revision	Ballard	Interbay Segment	Construction	Matthew Crane	There is no Metro active or deadhead service on West Republican Street between 3rd Ave W and 5th Ave W, so these rows for SIB-1 and SIB-2 can probably be removed (unless the Future No Build scenario indicates service would be present on this street)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
96	3-62	Table	Table revision	Ballard	Ballard Segment	Construction	Matthew Crane	There is no Metro active or deadhead service on 14th Ave NW between NW 45th St and NW 51st St so the row for IBB-1a can be removed (unless the Future No Build scenario indicates service would be present on this street)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
97	3-65	3	Text revision	General/Both	General/None	Construction	Matthew Crane	This paragraph should also mention operator Comfort Stations, which are needed in close proximity to all layover locations.	Updated text.
98	4-01	10	Text revision	West Seattle	SODO Busway Segment	Build	Matthew Crane	Wouldn't eliminating the at-grade crossing near the SODO station help improve traffic operations in this area (for the two alternatives that build an overpass)? Especially if traffic volumes are forecasted to increase and the frequency of Link service will improve, seems like maintaining the at-grade crossing in the Build condition would make traffic operations approaching the study intersections worse.	This was considered and documented in the Final EIS.
99	4-15	6	Text revision	West Seattle	Delridge Segment	Build	Matthew Crane	The 35th/Avalon Repaving project is now complete, so can probably be removed from this discussion (or at least mention its recent completion)	Background projects were updated for the Final EIS and referred to this project as complete.

ID	Page No.	Figure	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
100	4-18	2	Text revision	West Seattle	General/None	Build	Matthew Crane	If possible, specify the number of rail-rail and bus-rail transfers at the SODO station, as this would effect the size and type of bus facilities Metro would want to implement.	Table 3-12 of the Final EIS Transportation Technical Report includes all rail-rail and bus-rail transfers at SODO station.
101	4-03	4	Text revision	West Seattle	SODO	Build	Matthew Crane	Suggest clarifying that "active" trips on the SODO busway serve routes headed to/from Downtown Seattle, while "deadhead" trips are using the busway to access either layover or the bus bases. The sentence as currently written makes it seem that both types of trips only use the busway to access the bases.	This was reviewed and clarified as appropriate for the Final EIS. Added reference that SODO busway buses could be active to Downtown Seattle or deadhead to bases.
102	4-05	1	Text revision	West Seattle	SODO	Build	Matthew Crane	I would specify the extent of the Spokane St bike/ped trail, since I don't think it runs the full extent of Spokane Street in this section of the project.	This was reviewed and clarified as appropriate for the Final EIS. Added extent of trail.
103	4-05	2	Text revision	West Seattle	Delridge Segment	Build	Matthew Crane	Avalon Way is also important an roadway in this area, as it provides access to lower Spokane St, the West Seattle Bridge, and the Water Taxi terminal.	This was noted in the Final EIS. Added text that Southwest Avalon Way is an important corridor.
104	4-74	1	Impact/mitigation	West Seattle	General/None	Build	Matthew Crane	If the City of Seattle doesn't have an LOS standard, will mitigation even be required? Maybe if pedestrian or bicycle crossing distances or other factors for those modes are impacted, but will be interested to understand how mitigation of traffic impacts makes sense.	As described in Section 3.5.3 of the Final EIS, in the absence of an adopted City of Seattle intersection L.O.S. threshold, intersections that operate at L.O.S. E and L.O.S. F are identified as failing. With the Build Alternatives, affected intersections are defined as locations expected to degrade from L.O.S. D or better in the No Build Alternative to L.O.S. E or F with the project, or if the intersection already operates at L.O.S. E or F in the No Build Alternative and have noticeably worse vehicle delays in the Build Alternative (10 percent or higher vehicle delay than in the No Build Alternative).
105	4-77	2	Text revision	Ballard	C-ID	N/A	Matthew Crane	Suggest including 2nd Avenue Extension in this list, which is the companion one-way couplet to 4th Ave north of Jackson Street.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
106	4-07	Tables 4-5, 4-6	Table revision	West Seattle	SODO Busway Segment	N/A	Matthew Crane	Suggest having AM results on the left, PM on the right in each table, that's typically how I've seen it presented in reports.	Revised.
107	4-76	Table 4-34	Table revision	Ballard	General/None	N/A	Matthew Crane	As with West Seattle section, suggest having AM results first (left column), then PM results (right column). Same goes for the figures in this section	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
108	4-77	Figure 4-26	Table revision	Ballard	General/None	N/A	Matthew Crane	As with West Seattle section, suggest removing the Build Alternative alignments from the figures in this section describing Existing (i.e. current) conditions.	A decision was made to include Build alignments as standard features in Final EIS maps. No change.
109	4-08	Figures 4-2, 4-3, 4-4, 4-5	Table revision	West Seattle	General/None	N/A	Matthew Crane	For a discussion on existing conditions, presenting a figure with the build condition station alternatives seems like it could be confusing. Suggest simplifying to reflect existing conditions of the current SODO station area. This comment applies for Figures 4-2, 4-3, 4-4, and 4-5	Comment noted. The potential future station locations were identified to make comparisons to future conditions easier so that all figures look similar.
110	4-91	8	Text revision	General/Both	General/None	Build	Matthew Crane	As with West Seattle section, don't think you need to repeat the No Build condition assumptions in the section talking about Build Condition roadway modifications as part of the Ballard section of the project.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
111	4-93	4	Text revision	Ballard	Downtown Segment	N/A	Matthew Crane	This intersection was recently signalized as part of the AWW North Surface Streets project. Is this describing some additional/future modification at this location? If not, it may be worth mentioning that this project is now substantially complete as of the document's publication.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
112	3-22	1	Impact/mitigation	West Seattle	Delridge Segment	Construction	Steve Crosley	ST should note proposed night and weekend closures as full closures, not partial closures in DEIS. Rerouting existing service for some full closures will be feasible, if challenging and detrimental to neighborhoods who rely on transit access for mobility (i.e., Avalon) yet some closures, especially any full closures on Delridge, are not feasible as there is no alternate pathway/turnaround for H Line, 50, and 125. ST should meet with Metro to determine which closures are feasible and which are not.	Construction-period transit service plans have been developed with King County Metro and the City of Seattle for the Preferred Alternative at a level of detail appropriate for the Final EIS. Additional refinements will take place during permitting.
113	3-34	3	Text revision	Ballard	Ballard	Build	Steve Crosley	Transit service discussion does not include Seattle Center, Interbay, or Ballard Stations. Please add that service discussion	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
114	3-35	1	Text revision	Ballard	Smith Cove	Build	Steve Crosley	Typo: "Unio" should be "Union"	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
115	3-36	3	Text revision	Ballard	General/None	Build	Steve Crosley	Statement that "transit facilities for the downtown stations would not be notably different between the No Build Alternative and Build Alternatives" is factually incorrect. Due to construction impacts and desire to provide a seamless bus-rail transfer experience, bus stops serving these Link stations would be rebuilt and/or relocated to best serve station entrances. Also correct use of "downtown stations" as C-ID and Denny fall outside of downtown.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
116	3-36	4	Text revision	Ballard	SLU	Build	Steve Crosley	Discussion should note that Mercer Street (for Alternative DT-2) would not provide for any seamless transfer opportunities; in fact this alternative would provide for poor transit integration compared to DT-1	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
117	3-37	1	Impact/mitigation	Ballard	C-ID segment	Construction	Steve Crosley	This statement is incorrect and needs to be modified: "Alternative CID-1a* would also shift the portion of the SODO Busway between South Royal Brougham Way and South Holgate Street west onto the Ryerson Bus Base property, with modified accesses to the base from South Royal Brougham Way and from 4th Avenue South near South Massachusetts Street." Modified access from 4th Avenue South near South Massachusetts Street is only conceptual at this point and has not been designed or approved by any party (Metro, SDOT, ST). Closure of Ryerson access from the busway is a significant impact and feasible mitigation has not yet been fully developed or agreed to.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
118	3-37	1	Impact/mitigation	Ballard	C-ID segment	Construction	Steve Crosley	As currently written, this sentence implies that ST would propose reconfiguration of Metro's bus yard: "This would include potential reconfiguration of the internal bus yard, which would need to be coordinated with Metro." This is incorrect. Any impact that would reduce footprint or require new ingress/egress would (not potentially) require reconfiguration. Metro would develop its own reconfiguration plan and mitigation provided by ST would design, fund, and implement new access and/or compensate Metro for the reduced footprint.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
119	3-37	5-6	Text revision	Ballard	C-ID	Build	Steve Crosley	Why is the transfer environment between C-ID alternatives not compared to one another? The poor rail to rail transfer environment of the deep mined station options should be described here. As currently written, the reader cannot understand the vast differences between the alternatives.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
120	3-38	2	Text revision	Ballard	Midtown	Build	Steve Crosley	The assessment of the transfer environment implies that the two station alternatives are equal. This is not true. DT-1 provides superior transit integration with the G Line - a stop at 4th/Madison would provide direct access. This assessment should be corrected.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
121	3-38	4	Text revision	Ballard	Denny	Build	Steve Crosley	For Denny station, DT-1 provides far superior transit integration than does DT-2	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
122	3-38	4	Text revision	Ballard	SLU	Build	Steve Crosley	The transfer environment assessment should be updated to state that DT-2 provides poor transit integration with connecting bus routes and will lead to a sub-par outcome for transit riders if selected.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	Page No.	Paragraph	Type of Comment	Extension	Station or Segment	Impact	Name of Commenter	Comment	Response
123	3-45	1	Impact/mitigation	Ballard	General/None	Construction	Steve Crosley	Please see Metro's DEIS Comment Letter for specific comments on construction impacts	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
124	3-65	1	Impact/mitigation	Ballard	General/None	Construction	Steve Crosley	Please see Metro's DEIS Comment Letter for specific comments on construction and build mitigation	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
125	3-27	1	Impact/mitigation	West Seattle	General/None	Construction	Steve Crosley	Please see Metro's DEIS Comment Letter for specific comments on construction and build mitigation	See comment #6.
126	3-19	2	Impact/mitigation	West Seattle	General/None	Construction	Steve Crosley	Please see Metro's DEIS Comment Letter for specific comments on construction impacts	See comment #6.

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Appendix O.2.2.5, Local Agencies, Commissions, Boards, and Elected Official

Comments were received from the following local agencies, commissions, boards, and elected officials:

- City of Seattle
- Seattle Councilmember Herbold
- Seattle Freight Advisory Board
- Seattle Planning Commission
- Seattle Public Schools
- Seattle Transit Advisory Board

The following attachments provide these submittals in the order listed above, along with responses to comments.

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April 28, 2022

Lauren Swift
Central Corridor Environmental Manager
Sound Transit

(Sent via email)

Dear Ms. Swift,

The West Seattle and Ballard Link Extensions (WSBLE) project is the largest infrastructure investment in Seattle's history. The project brings tremendous transformative opportunity to further City and regional goals to expand equitable access to residential and job centers, support thriving neighborhoods and economic prosperity, and encourage sustainable and climate-friendly transportation choices. However, as its many miles of new light rail track and multiple stations are constructed through existing Seattle neighborhoods, WSBLE also brings the real potential for significant temporary and permanent adverse impacts to Seattle residents and all users of the City's transportation network.

The DEIS is a critical early juncture to evaluate project alternatives so that future project decisions may optimize long-term benefits and outcomes, while ensuring that we avoid, minimize, and mitigate adverse project impacts. The City commends Sound Transit for its enormous and time-consuming effort to develop an environmental document for a light-rail project of this scale through a largely built-out city, including coordination with participating and cooperating agencies and the Tribes. As a Cooperating Agency under NEPA and an Agency of Jurisdiction under SEPA, and in support of our 2018 Partnering Agreement with Sound Transit, the City submits formal comments from the DEIS review with primary goals to:

- Help advance the best possible project that maximizes benefits, minimizes impact and harm, and best meets local community and regional interests.
- Ensure the environmental review process adequately evaluates project impacts and proposes appropriate mitigation measures to provide community members and policymakers with a clear understanding of project choices and trade-offs.
- Raise any potential conflicts or concerns related to City codes, regulations, or Director's rules, or related to adequate mitigation for project impacts, that could impede streamlined permitting and construction of the eventual project.

A City team of nearly 100 subject matter experts from 15¹ City departments contributed to the review of the WSBLE DEIS. The City's formal DEIS comments are compiled in *Attachment A: City Consolidated Comments* and summarized in the sections and attachments below.

¹ Review staff from 15+ City departments included: City Budget Office, Department of Construction and Inspections, Department of Neighborhoods, Department of Transportation, Finance and Administrative Services, Office of Civil Rights, Office of Economic Development, Office of Emergency Management, Office of Housing, Office of Planning and Community Development, Office of Sustainability and the Environment, Seattle Center, Seattle City Light, Seattle Fire Department, Seattle Parks and Recreation, Seattle Police Department, Seattle Public Library, and Seattle Public Utilities.

KEY DEIS FINDINGS

Racial equity and Environmental Justice

Sound Transit and the City have partnered since 2018 to develop a project-wide multi-year equity analysis using the City's Racial Equity Toolkit (RET). The RET furthers the City's and Sound Transit's shared goal to advance equitable outcomes for communities of color, particularly the RET-identified communities of Chinatown-International District and Delridge. While separate from the DEIS, the RET aims to inform key project analysis, milestones, and decisions—including the DEIS Environmental Justice (EJ) analysis, the formal analysis required by federal regulation developed to ensure equitable distribution of project benefits and avoid disparate impacts to communities of color and low-income populations.

With the RET analysis and process in mind, the City's DEIS review found the EJ analysis incomplete for measuring and mitigating impacts and benefits to minority and low-income populations. The City strongly disagrees with conclusions in the EJ analysis that the project has adequate offsetting benefits, and/or mitigation that the project would not result in high and adverse effects on environmental justice populations. The City requests a more complete evaluation in the FEIS to fully understand and avoid, minimize, or adequately mitigate the project impacts on EJ populations. Absent this complete evaluation, it is difficult to confirm a Preferred Alternative in RET communities.

In this overdue era of racial equity reckoning, the City believes it is critical that we go above past practice to advance equitable outcomes. See *Attachment B: Racial Equity Toolkit and Environmental Justice* for discussion and additional examples of how Sound Transit can strengthen the EJ analysis for the FEIS through additional analysis, expanded methodology, and the development of a mitigation plan to address potential adverse impacts. The City is committed to supporting this additional analysis through ongoing partnership with Sound Transit and continued development of the RET.

Compliance

The City of Seattle is responsible for issuing local permits for the WSBLE project. The City and Sound Transit share the goal to streamline the WSBLE project permit process. The City cannot permit the project if it does not comply with City codes, rules, plans, and regulations. In addition, where City code would not otherwise ensure mitigation for impacts, the City's substantive SEPA authority allows the City to condition or deny project permits to mitigate impacts based on adopted SEPA policies, plans, rules, and regulations. The DEIS demonstrates several instances in which compliance with local regulations is unclear, and raises additional concerns that, if not adequately addressed and resolved in the FEIS, will likely result in additional analysis and mitigation at the time of permitting. For example:

- **Stormwater.** Seattle Public Utilities (SPU) cannot permit the project as shown in the DEIS designs because the proposed alignments do not comply with regulations for stormwater management related to guideways. Sound Transit asserts that guideways are non-pollution-generating surface. This is incorrect; the Washington State Department of Ecology (Ecology) has judged guideways to be pollution-generating surfaces. Unless Ecology revises that determination based on new data, the project must meet the City's Stormwater Code (SMC 22.800-22.808).

- **Geology and soils.** The Prospect Street portal, Smith Cove Station site, and alignments along the west side of Queen Anne are in Environmentally Critical Areas (ECA), defined by steep slope and potential slide areas. These project components will likely require considerable efforts to provide complete stabilization to protect the facility from landslides emanating from the ECA Steep Slope Area.
- **ADA guidelines.** Evaluation of accessibility conditions around the station areas does not include detailed assessment of curb ramps and sidewalk conditions (including slope, pavement irregularities, obstructions, widths) that may be noncompliant with ADA guidelines. Additional analysis and mitigation may be needed at the time of permitting if these are not adequately addressed in the FEIS.

These compliance issues must be resolved and documented in the FEIS to avoid potential cost and delay in the project permitting process. See *Attachment C: Compliance* for additional examples and discussion of these compliance issues.

Impacts

It is essential for the environmental review to accurately evaluate potential project impacts to inform appropriate mitigation measures and understanding of alternatives and their trade-offs. While the DEIS provides a tremendous amount of information, the City finds that many sections of the DEIS are missing key information and analysis necessary to understand the full complement of project impacts. Without this information it is difficult to fully compare alternatives and develop appropriate mitigation. We also found several areas where we did not agree with the methodology or assumptions used to evaluate impacts. For example:

- **Missing information/analysis: Business displacement.** Impacts to minority-owned businesses and employees, particularly BIPOC businesses and employees, have not been fully evaluated throughout the corridor.
- **Missing information/analysis: Visual quality and aesthetics.** Impacts to specific public views of natural and human made features along SEPA corridors and of historic landmarks have not been fully evaluated.
- **Methodology: Transportation.** Many standards and conditions—such as speed limits, pedestrian level of service data, and transit boarding numbers—used for assumptions have changed since the DEIS was written. The FEIS analyses should reflect updates to these assumptions.
- **Methodology: Design/safety.** The standards for Seattle Fault and earthquake parameters are changing and the FEIS should use most current standards.

See *Attachment D: Methodology and Analytics* for a discussion of areas where additional information is needed, and examples of analyses with assumptions or methodologies with which the City disagrees.

In addition, there are numerous instances throughout the DEIS where the City finds that the analysis underestimates or omits the extent of project impacts and/or proposes insufficient mitigation to address impacts. For example:

- **Transportation.** The City finds that the DEIS does not adequately assess the impacts of full or partial closures to arterials during construction. The analyses largely focus on congestion

impacts, and underestimate the need for reduced vehicle trips, compelling the public to change behavior during the construction period and SDOT operations to actively manage construction impacts throughout construction of the project. In addition, the focus on peak-time impacts fails to fully assess impacts to freight mobility which often rely on non-peak travel times. The insufficient capture of these potential construction impacts impedes the understanding of whether mitigation measures will adequately address impacts, which in turn, limits evaluation of alternatives when construction impacts are an important factor. See *Attachment E: Transportation Impacts* for additional examples and a broader discussion of transportation impacts and mitigation.

- **City assets and properties.** The DEIS does not fully document potential impacts to City assets and properties—including buildings, utility and transportation infrastructure, and parks and open space—making it difficult to understand completely the trade-offs between project alternatives and identify appropriate mitigation actions. Many impacts will require acquisition in fee or by easement, utility relocation, right-of-way use through street use permitting, or other legal conveyance—all processes that take substantial time, and in many cases City Council action. Impacts to City assets and properties should be fully examined in the FEIS to prevent later delays to the project. See *Attachment F: City Assets and Properties* for additional examples and a broader discussion of impacts and mitigation related to City assets and properties.
- **Section 4(f) Impacts.** The Section 4(f) analysis performed by Sound Transit lacks necessary specificity and detail on the scope, duration, and mitigation of impacts to parks and park facilities, certain historic resources, and Seattle Center for any of the alternatives. Seattle Parks and Recreation (SPR) and Seattle Center cannot concur as to whether project impacts are de minimis under Section 4(f) without this additional analysis, including adequate demonstration of completed planning to minimize harm to SPR properties and Seattle Center. See *Attachment G: Section 4(f) Impacts* for additional examples and a broader discussion of impacts and mitigation to parks, recreational spaces, and wildlife habitat.
- **Section 106 Impacts.** The DEIS does not sufficiently assess the construction and permanent visual, physical, and operational impacts of the WSBLE project on historic resources. A thorough understanding and analysis of these impacts (effects) is necessary to meaningfully compare alternatives, inform a decision on a Preferred Alternative, and avoid costly conflicts and limited mitigation opportunities. Successful Section 106 consultation depends on the City having this information to evaluate impacts and trade-offs. See *Attachment H: Historic and Archaeological Resources/Section 106* for additional examples and a broader discussion of impacts and mitigation to historic, cultural, and archaeological resources.
- **Business and residential displacement.** The DEIS does not sufficiently examine the full range of impacts to businesses and residents, including loss of community cultural identity and cohesion resulting from displacements and changes in land use. Expanded evaluation is necessary to fully inform strategies to avoid, minimize, and mitigate these project impacts. See *Attachment I: Business and Residential Displacement* for additional examples and a broader discussion of impacts and mitigation for displacement.

In addition to the Attachments highlighted above, see the City's formal comments in *Attachment A: City Consolidated Comments* for examples of additional analysis and mitigation needed to address potential project impacts.

Mitigation

NEPA requires consideration of direct, indirect, and cumulative impacts of a project on the environment and development of potential measures to mitigate adverse environmental effects. Typically, a DEIS describes options for mitigation, while an FEIS includes the decisions on mitigation that would be implemented. However, we found the DEIS to be lacking in consistent and clear mitigation for the potential adverse project impacts, many of which may be unmitigable. Without adequate proposed mitigation, it is not possible to understand the full impact of the project, differences in alternatives, and potential permitting concerns. For example:

- **Business displacement.** Several WSLBE alternatives would impact businesses that are highly location-dependent and may not have relocation options if displaced. For example, many maritime businesses rely on access to shorelines, intermodal infrastructure, and industrial lands. Many businesses in the Chinatown-International District rely on the community's regional draw as a cultural hub. The DEIS does not make clear how to mitigate impacts, especially displacement, of these location-dependent businesses.
- **Streetcar impacts.** All WSBLE alternatives would have varying impacts on the Seattle streetcar network. The streetcar cannot be easily rerouted or curtailed without major capital work and associated environmental documentation. This might include installation of temporary tracks, turnbacks, and switches, to maintain access to the fleet and maintenance facilities at Charles Street (FHS) and 318 Fairview (SLU) and provide for safety during such operations. The DEIS does not detail the modifications to the streetcar system that will be needed to provide for continued, if disconnected, service.
- **Environmental impacts.** Several WSBLE alternatives would have impacts to Environmentally Critical Areas or other environmentally sensitive areas that could result in significant tree loss, wildlife habitat degradation, and steep slope and potential landslide area destabilization. The DEIS does not demonstrate how—or in some cases, whether—these impacts can be sufficiently avoided, minimized, or mitigated.

Constructing a light rail system through existing communities in a built-out city will necessarily cause impacts. Sound Transit must work with community members, the City, and other stakeholders and partners to develop a mitigation plan with sufficient detail in advance of the FEIS to inform actions on a Project to be Built and FTA Record of Decision, and to avoid future delays to project permitting. See *Attachment J: Mitigation* for additional examples and a broader discussion related to mitigation.

Comparison of alternatives

A core purpose of the environmental review is to provide information necessary to understand and compare potential project impacts to inform the selection of a Preferred Alternative and the eventual Project to Be Built. In our review of the DEIS, we find that in most segments, the analysis provides important information to support this comparison. However, in several places the City finds that absent a more complete impacts analysis and mitigation proposal, there is not sufficient information to confirm or modify a Preferred Alternative for the FEIS.

Chinatown-International District. The CID-1a/b alternative options at 4th Avenue South would require multiple road closures in a constrained section of the south Downtown transportation grid, significantly impacting local access and regional mobility networks during an 8 to 11-year construction period. They

would also require significant additional costs associated with the replacement of the 4th Avenue S bridge and elements of connection to the Midtown Station. The CID-2a/b alternative options at 5th Avenue South would cause significant disruption in the heart of the Chinatown-International community, including the displacement of up to 19 location-sensitive businesses in the corridor that may not have relocation options. The City finds that without an understanding of how—and whether—these impacts could be mitigated it is not possible to fully understand the trade-offs. Furthermore, due to the vocal concerns from residents and organizations from this RET-identified community, the City believes before an action on a Preferred Alternative there should be additional community process and analysis on how to avoid/minimize impacts, advance RET outcomes, and address historic harm. See *Attachment B* for additional discussion.

South Interbay and the north portal of the downtown tunnel. The large, elevated guideway structures of the SIB-1 and SIB-2 alternatives would weave across Elliott Way three times between the Republican portal and the Smith Cove station. It is unclear how the project would mitigate the resulting construction and permanent transportation impacts and visual quality impacts or how it would comply with local noise regulations. Meanwhile, both the SIB-2 and SIB-3 alternatives would encroach on steep slope and slide-prone Environmentally Critical Areas of the Queen Anne greenbelt and would also present noise regulation compliance concerns.

Seattle Center. For the Seattle Center station, the City is not only a project reviewer and regulator, but also the primary property owner and landlord to the many arts and cultural resident organizations that call the 74-acre campus home. The City has many concerns with the impacts associated with both the DT-1 and DT-2 alternatives, including:

- Impacts to protected features, including legacy trees, historic assets, and recreation space.
- Temporary and permanent noise and vibration impacts to sensitive cultural venues including performance halls and recording studios.
- Displacement affecting resident organizations and the long-term performance of the campus.
- Impacts to historic assets, including the Northwest Rooms, International Plaza, and Cornish Playhouse.
- Transportation and access impacts affecting events and operations for years.

Development of a full mitigation plan as part of the FEIS will be necessary to fully understand the trade-offs of these alternatives. See *Attachment K: Seattle Center* and *Exhibits 1, 2, and 3*, for a broader discussion of impacts and mitigation related to Seattle Center campus, resident organizations, and the surrounding community, and a comparison of Seattle Center station alternatives.

ADDITIONAL CONSIDERATIONS

In addition to the comments highlighted above and detailed in *Attachment A* regarding the analysis and mitigation of potential project impacts and comparison of DEIS alternatives, the City also found that the DEIS information and concurrent project discussions of refinements to the DEIS alternatives has informed comments, discussed below, regarding future planning to optimize station access and transit integration, refinements to the DEIS alternatives, and third-party funding.

Planning for station access and transit integration

WSBLE stations will create new neighborhood mobility patterns as people access new stations on foot, bicycles, and other transit modes. Siting and designing stations for safe non-motorized access and seamless bus-rail integration is necessary for passenger safety, user experience, and overall ridership, and an essential step toward the City's Vision Zero goals to end traffic fatalities and serious injuries. The DEIS analysis reveals that some alternatives do not optimize access and bus integration. If unaddressed in early project planning, there will be added costs and impacts—in time, dollars, ridership, and human safety—later to the project. It is imperative that in the next phase of station planning and preliminary engineering, Sound Transit, the City, King County Metro, and other agencies work with community to ensure that we design—or in some cases, *refine*—stations to include essential components for safe station access and seamless transit integration. See *Attachment E* for a discussion of access and integration concerns in the context of transportation impacts and mitigation and *Attachment L* for a broader discussion of access and integration and the importance of upcoming station planning work.

Third-party funding

The City recognizes that some WSBLE alternatives may ultimately require funding partnerships with third-party agencies or organizations. Once critical factors such as project impacts, mitigation costs, and projected revenue are better understood and key decisions have been made to complete the FEIS and establish the Project To Be Built, the City intends to work jointly with Sound Transit and other partners explore third-party funding options.

Refinements to the DEIS alternatives

During the DEIS period, Sound Transit introduced additional refinements that strive to reduce costs, avoid impacts, reduce risk, or achieve other benefits to the system would reduce project costs. The City supports examination of refinements that would provide meaningful benefits to the local communities and the broader transit system and its riders, including: mix-and-match refinements that would allow greater flexibility to choose segment alternatives that provide the greatest benefit or fewest impacts; refinements to stations or station entrances that would improve safe non-motorized station access; and refinements that would help avoid, minimize, or mitigate adverse project impacts. As with the current DEIS alternatives, any refinements will need appropriate environmental review to inform their consideration.

NEXT STEPS

To advance the project to the FEIS—as well as to reach subsequent necessary project milestones of the FTA Record of Decision, the City Council ordinance adopting the Project to be Built and amending the Transitway Agreement, and eventual project permitting—it is critical that Sound Transit work with the City, community members, and other stakeholders and local and regional partners, to ensure that the issues raised in the DEIS process are adequately resolved. These steps will necessarily include:

- **Board action on a Preferred Alternative.** Mayor Bruce Harrell and the City Council intend to put forward a Joint Council resolution that articulates a City position on a WSBLE Preferred Alternative for study in the FEIS, as well as additional bodies of work to support ongoing planning and environmental review.

- **Development of the FEIS.** Between the DEIS and the FEIS, the City staff team will work with Sound Transit staff to carry out the following necessary work to support the FEIS analysis:
 - *Technical comment resolution.* The City commits to a process for issue resolution with technical teams, including responses to technical comments, assistance with additional analyses, and continued development of design refinements.
 - *Mitigation planning.* The City commits to supporting a joint process to develop appropriate mitigation measures and strategies to inform a comprehensive mitigation plan for potential project impacts in the FEIS.

Relationship to permitting

The City has and retains substantive SEPA authority to the full extent provided in applicable statutes, codes and regulations, including but not limited to SMC 25.05.660, SMC 25.05.665, SMC 25.05.670, and SMC 25.05.675. The City’s DEIS review found many issues that, if not adequately addressed and resolved in the FEIS, will likely result in additional analysis and mitigation at the time of permitting. These comments include, but are not limited to:

- Transportation impact examples that have no clear code path to mitigation
- Accessibility conditions in the station context where existence of curb ramps and other sidewalk conditions (slope, pavement irregularities, obstructions, widths) may be noncompliant with ADA guidelines
- Unclear mitigation for pedestrian facilities that may be temporarily or permanently impacted by placement of columns associated with right-of-way elevated guideway segments

Other examples may be found in the City’s detailed comments in *Attachment A*. To avoid delays in the permitting phase, it is critically important that Sound Transit work with community members, the City, and other stakeholders and partners to develop a mitigation plan with sufficient detail in advance of the FEIS to inform actions on a Project to be Built and FTA Record of Decision.


Meaningful community engagement

The City appreciates Sound Transit’s commitment to community engagement, and the extensive effort its staff has made to engage with communities along the entire WSBLE alignment during the DEIS Comment Period. Continuing this intensive engagement effort will be key as the environmental work advances—including the Board action on a Preferred Alternative, development of a mitigation plan and other analysis and issue resolution in advance of the FEIS, and exploration of refinements to the DEIS alternatives. All these steps must be carried out in partnership with community through sustained and robust two-way engagement. It is critical the engagement be transparent by sharing out what Sound Transit is hearing from community and stakeholders, as well as how the agency is applying engagement findings to project decisions. Furthermore, methods of engagement should be tailored for different communities; what will work for Downtown or Seattle Center might not work in Chinatown-International District or Delridge.


The City will continue to offer its resources and assistance to ST in this effort. See *Attachment M: Community Engagement* for further discussion of community engagement opportunities. We look forward to partnering in this engagement work, through both the FEIS development process and the update to the Racial Equity Toolkit.

In closing, the City remains a strong supporter of the WSBLE project and partner to Sound Transit on its planning, permitting, and eventual service delivery. We are committed to working with Sound Transit, community members, and other partners before the FEIS to ensure appropriate resolution on these outstanding issues.

Sincerely,


[Kristen Simpson \(Apr 28, 2022 12:21 PDT\)](#)

Kristen Simpson, Interim Director, Department of Transportation, City of Seattle



Marshall Foster, ST3 Designated Representative, Office of the Waterfront and Civic Projects, City of Seattle

Attachments

- Attachment A: City Consolidated Comments
- Attachment B: Racial Equity Toolkit and Environmental Justice
- Attachment C: Compliance
- Attachment D: Methodology and Analytics
- Attachment E: Transportation Impacts
- Attachment F: City Assets and Properties Impacts
- Attachment G: Section 4(f) Impacts
- Attachment H: Historic and Archeological Resources/Section 106
- Attachment I: Business and Residential Displacement
- Attachment J: Mitigation
- Attachment K: Seattle Center
- Attachment L: Planning for Station Access and Transit Integration
- Attachment M: Community Engagement
- Exhibit 1: Event uses throughout Seattle Center campus and facilities in a typical year
- Exhibit 2: Event-related curbside loading uses on streets near the Seattle Center campus
- Exhibit 3: WSBLE DEIS Noise and Vibration Review Report for Seattle Center

CC:

- Seattle Mayor Bruce Harrell
- Seattle City Council President Debora Juarez
- Seattle City Councilmember Lisa Herbold
- Seattle City Councilmember Andrew Lewis
- Seattle City Councilmember Tammy Morales
- Seattle City Councilmember Teresa Mosqueda
- Seattle City Councilmember Sara Nelson

Seattle City Councilmember Alex Pedersen
Seattle City Councilmember Kshama Sawant
Seattle City Councilmember Dan Strauss
Adiam Emery, Mayor's Office
Elliot Helmbrecht, Mayor's Office
Chief Adrian Diaz, Seattle Police Department
Julie Dingley, City Budget Office
Jessyn Farrell, Office of Sustainability and the Environment
Tim Fay, Seattle Public Library
Calvin Goings, Finance and Administrative Services
Andrew Lee, Seattle Public Utilities
Markham Macintyre, Office of Economic Development
Curry Mayer, Office of Emergency Management
Robert Nellams, Seattle Center
Rico Quirindongo, Office of Planning and Community Development
Chief Harold Scoggins, Seattle Fire Department
Debra Smith, Seattle City Light
Nathan Torgelson, Department of Construction and Inspections
Derrick Wheeler-Smith, Office of Civil Rights
Christopher Williams, Parks and Recreation
Maiko Winkler-Chin, Office of Housing
Greg Wong, Department of Neighborhoods
Russell King, City Attorney's Office
Jeff Weber, City Attorney's Office
Sara Maxana, Department of Transportation
Sandra Gurkewitz, Department of Transportation
Calvin Chow, Council Central Staff
Linda Gehrke, USDOT Federal Transit Administration
Mark Assam, USDOT Federal Transit Administration
Don Billen, Sound Transit
Cathal Ridge, Sound Transit

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504394 - City of Seattle Draft EIS Comment

#	Comments	Responses
1	<p>Racial equity and Environmental Justice Sound Transit and the City have partnered since 2018 to develop a project-wide multi-year equity analysis using the City's Racial Equity Toolkit (RET). The RET furthers the City's and Sound Transit's shared goal to advance equitable outcomes for communities of color, particularly the RET-identified communities of Chinatown-International District and Delridge. While separate from the DEIS, the RET aims to inform key project analysis, milestones, and decisions-including the DEIS Environmental Justice (EJ) analysis, the formal analysis required by federal regulation developed to ensure equitable distribution of project benefits and avoid disparate impacts to communities of color and low-income populations. With the RET analysis and process in mind, the City's DEIS review found the EJ analysis incomplete for measuring and mitigating impacts and benefits to minority and low-income populations. The City strongly disagrees with conclusions in the EJ analysis that the project has adequate offsetting benefits, and/or mitigation that the project would not result in high and adverse effects on environmental justice populations. The City requests a more complete evaluation in the FEIS to fully understand and avoid, minimize, or adequately mitigate the project impacts on EJ populations. Absent this complete evaluation, it is difficult to confirm a Preferred Alternative in RET communities. In this overdue era of racial equity reckoning, the City believes it is critical that we go above past practice to advance equitable outcomes. See Attachment B: Racial Equity Toolkit and Environmental Justice for discussion and additional examples of how Sound Transit can strengthen the EJ analysis for the FEIS through additional analysis, expanded methodology, and the development of a mitigation plan to address potential adverse impacts. The City is committed to supporting this additional analysis through ongoing partnership with Sound Transit and continued development of the RET.</p>	<p>See responses to Attachment B of this letter.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

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2	<p>Compliance The City of Seattle is responsible for issuing local permits for the WSBLE project. The City and Sound Transit share the goal to streamline the WSBLE project permit process. The City cannot permit the project if it does not comply with City codes, rules, plans, and regulations. In addition, where City code would not otherwise ensure mitigation for impacts, the City's substantive SEPA authority allows the City to condition or deny project permits to mitigate impacts based on adopted SEPA policies, plans, rules, and regulations. The DEIS demonstrates several instances in which compliance with local regulations is unclear, and raises additional concerns that, if not adequately addressed and resolved in the FEIS, will likely result in additional analysis and mitigation at the time of permitting. For example: Stormwater. Seattle Public Utilities (SPU) cannot permit the project as shown in the DEIS designs because the proposed alignments do not comply with regulations for stormwater management related to guideways. Sound Transit asserts that guideways are non-pollution-generating surface. This is incorrect; the Washington State Department of Ecology (Ecology) has judged guideways to be pollution-generating surfaces.</p> <p>Unless Ecology revises that determination based on new data, the project must meet the City's Stormwater Code (SMC 22.800-22.808). Geology and soils. The Prospect Street portal, Smith Cove Station site, and alignments along the west side of Queen Anne are in Environmentally Critical Areas (ECA), defined by steep slope and potential slide areas. These project components will likely require considerable efforts to provide complete stabilization to protect the facility from landslides emanating from the ECA Steep Slope Area. ADA guidelines. Evaluation of accessibility conditions around the station areas does not include detailed assessment of curb ramps and sidewalk conditions (including slope, pavement irregularities, obstructions, widths) that may be noncompliant with ADA guidelines. Additional analysis and mitigation may be needed at the time of permitting if these are not adequately addressed in the FEIS. These compliance issues must be resolved and documented in the FEIS to avoid potential cost and delay in the project permitting process. See Attachment C: Compliance for additional examples and discussion of these compliance issues.</p>	<p>See responses to Attachment C of this letter.</p>

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3	<p>Impacts It is essential for the environmental review to accurately evaluate potential project impacts to inform appropriate mitigation measures and understanding of alternatives and their trade-offs. While the DEIS provides a tremendous amount of information, the City finds that many sections of the DEIS are missing key information and analysis necessary to understand the full complement of project impacts. Without this information it is difficult to fully compare alternatives and develop appropriate mitigation. We also found several areas where we did not agree with the methodology or assumptions used to evaluate impacts. For example: Missing information/analysis: Business displacement. Impacts to minority-owned businesses and employees, particularly BIPOC businesses and employees, have not been fully evaluated throughout the corridor. Missing information/analysis: Visual quality and aesthetics. Impacts to specific public views of natural and human made features along SEPA corridors and of historic landmarks have not been fully evaluated. Methodology: Transportation. Many standards and conditions-such as speed limits, pedestrian level of service data, and transit boarding numbers-used for assumptions have changed since the DEIS was written. The FEIS analyses should reflect updates to these assumptions. Methodology: Design/safety. The standards for Seattle Fault and earthquake parameters are changing and the FEIS should use most current standards. See Attachment D: Methodology and Analytics for a discussion of areas where additional information is needed, and examples of analyses with assumptions or methodologies with which the City disagrees.</p>	<p>See responses to Attachment D of this letter.</p>
4	<p>Transportation. The City finds that the DEIS does not adequately assess the impacts of full or partial closures to arterials during construction. The analyses largely focus on congestion impacts, and underestimate the need for reduced vehicle trips, compelling the public to change behavior during the construction period and SDOT operations to actively manage construction impacts throughout construction of the project. In addition, the focus on peak-time impacts fails to fully assess impacts to freight mobility which often rely on non-peak travel times. The insufficient capture of these potential construction impacts impedes the understanding of whether mitigation measures will adequately address impacts, which in turn, limits evaluation of alternatives when construction impacts are an important factor. See Attachment E: Transportation Impacts for additional examples and a broader discussion of transportation impacts and mitigation.</p>	<p>See responses to Attachment E of this letter.</p>

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5	<p>City assets and properties. The DEIS does not fully document potential impacts to City assets and properties-including buildings, utility and transportation infrastructure, and parks and open space</p> <p>-making it difficult to understand completely the trade-offs between project alternatives and identify appropriate mitigation actions. Many impacts will require acquisition in fee or by easement, utility relocation, right-of-way use through street use permitting, or other legal conveyance-all processes that take substantial time, and in many cases City Council action. Impacts to City assets and properties should be fully examined in the FEIS to prevent later delays to the project. See Attachment F: City Assets and Properties for additional examples and a broader discussion of impacts and mitigation related to City assets and properties.</p>	<p>See responses to Attachment F of this letter.</p>
6	<p>Section 4(f) Impacts. The Section 4(f) analysis performed by Sound Transit lacks necessary specificity and detail on the scope, duration, and mitigation of impacts to parks and park facilities, certain historic resources, and Seattle Center for any of the alternatives. Seattle Parks and Recreation (SPR) and Seattle Center cannot concur as to whether project impacts are de minimis under Section 4(f) without this additional analysis, including adequate demonstration of completed planning to minimize harm to SPR properties and Seattle Center. See Attachment G: Section 4(f) Impacts for additional examples and a broader discussion of impacts and mitigation to parks, recreational spaces, and wildlife habitat.</p>	<p>See responses to Attachment G of this letter.</p>
7	<p>Section 106 Impacts. The DEIS does not sufficiently assess the construction and permanent visual, physical, and operational impacts of the WSBLE project on historic resources. A thorough understanding and analysis of these impacts (effects) is necessary to meaningfully compare alternatives, inform a decision on a Preferred Alternative, and avoid costly conflicts and limited mitigation opportunities. Successful Section 106 consultation depends on the City having this information to evaluate impacts and trade-offs. See Attachment H: Historic and Archaeological Resources/Section 106 for additional examples and a broader discussion of impacts and mitigation to historic, cultural, and archaeological resources.</p>	<p>See responses to Attachment H of this letter.</p>
8	<p>Business and residential displacement. The DEIS does not sufficiently examine the full range of impacts to businesses and residents, including loss of community cultural identity and cohesion resulting from displacements and changes in land use. Expanded evaluation is necessary to fully inform strategies to avoid, minimize, and mitigate these project impacts. See Attachment I: Business and Residential Displacement for additional examples and a broader discussion of impacts and mitigation for displacement.</p>	<p>See responses to Attachment I of this letter.</p>

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9	<p>Business displacement. Several WSLBE alternatives would impact businesses that are highly location-dependent and may not have relocation options if displaced. For example, many maritime businesses rely on access to shorelines, intermodal infrastructure, and industrial lands. Many businesses in the Chinatown-International District rely on the community's regional draw as a cultural hub. The DEIS does not make clear how to mitigate impacts, especially displacement, of these location-dependent businesses.</p>	<p>Please see response to CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
10	<p>Streetcar impacts. All WSBLE alternatives would have varying impacts on the Seattle streetcar network. The streetcar cannot be easily rerouted or curtailed without major capital work and associated environmental documentation. This might include installation of temporary tracks, turnbacks, and switches, to maintain access to the fleet and maintenance facilities at Charles Street (FHS) and 318 Fairview (SLU) and provide for safety during such operations. The DEIS does not detail the modifications to the streetcar system that will be needed to provide for continued, if disconnected, service.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
11	<p>Environmental impacts. Several WSBLE alternatives would have impacts to Environmentally Critical Areas or other environmentally sensitive areas that could result in significant tree loss, wildlife habitat degradation, and steep slope and potential landslide area destabilization. The DEIS does not demonstrate how-or in some cases, whether-these impacts can be sufficiently avoided, minimized, or mitigated.</p>	<p>See response to Comment #166, #170, and #172 in Attachment A of this letter. Please see Section 4.9, Ecosystems for discussion of mitigation of wildlife habitat and tree canopy. See Section 4.11, Geology and Soils, for discussion of project design in steep slopes and landslide areas. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
12	<p>Constructing a light rail system through existing communities in a built-out city will necessarily cause impacts. Sound Transit must work with community members, the City, and other stakeholders and partners to develop a mitigation plan with sufficient detail in advance of the FEIS to inform actions on a Project to be Built and FTA Record of Decision, and to avoid future delays to project permitting. See Attachment J: Mitigation for additional examples and a broader discussion related to mitigation.</p>	<p>See responses to Attachment J of this letter.</p>

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13	<p>Chinatown-International District. The CID-1a/b alternative options at 4th Avenue South would require multiple road closures in a constrained section of the south Downtown transportation grid, significantly impacting local access and regional mobility networks during an 8 to 11-year construction period. They would also require significant additional costs associated with the replacement of the 4th Avenue S bridge and elements of connection to the Midtown Station. The CID-2a/b alternative options at 5th Avenue South would cause significant disruption in the heart of the Chinatown-International community, including the displacement of up to 19 location-sensitive businesses in the corridor that may not have relocation options. The City finds that without an understanding of how-and whether-these impacts could be mitigated it is not possible to fully understand the trade-offs. Furthermore, due to the vocal concerns from residents and organizations from this RET-identified community, the City believes before an action on a Preferred Alternative there should be additional community process and analysis on how to avoid/minimize impacts, advance RET outcomes, and address historic harm. See Attachment B for additional discussion.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
14	<p>South Interbay and the north portal of the downtown tunnel. The large, elevated guideway structures of the SIB-1 and SIB-2 alternatives would weave across Elliott Way three times between the Republican portal and the Smith Cove station. It is unclear how the project would mitigate the resulting construction and permanent transportation impacts and visual quality impacts or how it would comply with local noise regulations. Meanwhile, both the SIB-2 and SIB-3 alternatives would encroach on steep slope and slide-prone Environmentally Critical Areas of the Queen Anne greenbelt and would also present noise regulation compliance concerns.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
15	<p>Seattle Center. For the Seattle Center station, the City is not only a project reviewer and regulator, but also the primary property owner and landlord to the many arts and cultural resident organizations that call the 74-acre campus home. The City has many concerns with the impacts associated with both the DT-1 and DT-2 alternatives, including: Impacts to protected features, including legacy trees, historic assets, and recreation space. Temporary and permanent noise and vibration impacts to sensitive cultural venues including performance halls and recording studios. Displacement affecting resident organizations and the long-term performance of the campus.</p> <p>Impacts to historic assets, including the Northwest Rooms, International Plaza, and Cornish Playhouse. Transportation and access impacts affecting events and operations for years.</p> <p>Development of a full mitigation plan as part of the FEIS will be necessary to fully understand the trade-offs of these alternatives. See Attachment K: Seattle Center and Exhibits 1, 2, and 3, for a broader discussion of impacts and mitigation related to Seattle Center campus, resident organizations, and the surrounding community, and a comparison of Seattle Center station alternatives.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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16	<p>Planning for station access and transit integration WSBLE stations will create new neighborhood mobility patterns as people access new stations on foot, bicycles, and other transit modes. Siting and designing stations for safe non-motorized access and seamless bus-rail integration is necessary for passenger safety, user experience, and overall ridership, and an essential step toward the City's Vision Zero goals to end traffic fatalities and serious injuries. The DEIS analysis reveals that some alternatives do not optimize access and bus integration. If unaddressed in early project planning, there will be added costs and impacts-in time, dollars, ridership, and human safety-later to the project. It is imperative that in the next phase of station planning and preliminary engineering, Sound Transit, the City, King County Metro, and other agencies work with community to ensure that we design-or in some cases, refine-stations to include essential components for safe station access and seamless transit integration. See Attachment E for a discussion of access and integration concerns in the context of transportation impacts and mitigation and Attachment L for a broader discussion of access and integration and the importance of upcoming station planning work.</p>	<p>See responses to Attachment E and Attachment L of this letter.</p>
17	<p>Third-party funding The City recognizes that some WSBLE alternatives may ultimately require funding partnerships with third-party agencies or organizations. Once critical factors such as project impacts, mitigation costs, and projected revenue are better understood and key decisions have been made to complete the FEIS and establish the Project To Be Built, the City intends to work jointly with Sound Transit and other partners explore third-party funding options.</p>	<p>Please see response to CC2c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
18	<p>Refinements to the DEIS alternatives During the DEIS period, Sound Transit introduced additional refinements that strive to reduce costs, avoid impacts, reduce risk, or achieve other benefits to the system would reduce project costs. The City supports examination of refinements that would provide meaningful benefits to the local communities and the broader transit system and its riders, including: mix-and-match refinements that would allow greater flexibility to choose segment alternatives that provide the greatest benefit or fewest impacts; refinements to stations or station entrances that would improve safe non-motorized station access; and refinements that would help avoid, minimize, or mitigate adverse project impacts. As with the current DEIS alternatives, any refinements will need appropriate environmental review to inform their consideration.</p>	<p>Please see Section 2.6, Refined Alternatives and Options for the Final EIS, of the Final EIS for a description of changes to alternatives between the WSBLE Draft EIS and the Final EIS, which considered input from agencies and the public. A response to this comment related to the Ballard Link Extension alternatives will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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19	<p>Relationship to permitting The City has and retains substantive SEPA authority to the full extent provided in applicable statutes, codes and regulations, including but not limited to SMC 25.05.660, SMC 25.05.665, SMC 25.05.670, and SMC 25.05.675. The City's DEIS review found many issues that, if not adequately addressed and resolved in the FEIS, will likely result in additional analysis and mitigation at the time of permitting. These comments include, but are not limited to: Transportation impact examples that have no clear code path to mitigation Accessibility conditions in the station context where existence of curb ramps and other sidewalk conditions (slope, pavement irregularities, obstructions, widths) may be noncompliant with ADA guidelines Unclear mitigation for pedestrian facilities that may be temporarily or permanently impacted by placement of columns associated with right-of-way elevated guideway segments Other examples may be found in the City's detailed comments in Attachment A. To avoid delays in the permitting phase, it is critically important that Sound Transit work with community members, the City, and other stakeholders and partners to develop a mitigation plan with sufficient detail in advance of the FEIS to inform actions on a Project to be Built and FTA Record of Decision.</p>	<p>See responses to Attachment C of this letter. City permitting-related comments that are pertinent to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
20	<p>Meaningful community engagement The City appreciates Sound Transit's commitment to community engagement, and the extensive effort its staff has made to engage with communities along the entire WSBLE alignment during the DEIS Comment Period. Continuing this intensive engagement effort will be key as the environmental work advances-including the Board action on a Preferred Alternative, development of a mitigation plan and other analysis and issue resolution in advance of the FEIS, and exploration of refinements to the DEIS alternatives. All these steps must be carried out in partnership with community through sustained and robust two-way engagement. It is critical the engagement be transparent by sharing out what Sound Transit is hearing from community and stakeholders, as well as how the agency is applying engagement findings to project decisions. Furthermore, methods of engagement should be tailored for different communities; what will work for Downtown or Seattle Center might not work in Chinatown- International District or Delridge. The City will continue to offer its resources and assistance to ST in this effort. See Attachment M: Community Engagement for further discussion of community engagement opportunities. We look forward to partnering in this engagement work, through both the FEIS development process and the update to the Racial Equity Toolkit.</p>	<p>See responses to Attachment M of this letter.</p>

Attachment A
City Consolidated Comments

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ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1	Acquisitions, Displacements, and Relocations	6	4.3.1.3.4	K. Tassery	FAS	<p>Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. There is no mention of this displacement or mitigation measures in this chapter.</p> <p>a. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response.</p> <p>b. According to the Sound Transit valuation formula this property would be a full acquisition for two of the proposed alignments, which would necessitate a full replacement of the facility and property acquisition.</p> <p>c. The existing 10,375 s.f. facility was constructed in 1981 and sits on a 19,800 s.f. parcel of land owned by the City of Seattle. The central location is important since this shelter is the only one operating and serves all of Seattle.</p> <p>d. FAS estimates that to replace the existing facility, the cost for property acquisition, hard costs and soft costs would be approximately \$21.7 million.</p> <p>e. In addition, FAS estimates that 5-7 years would be needed for full replacement (from community input, programmatic design, site acquisition, design, construction and move in).</p> <p>If the City does not have sufficient time to complete a replacement facility, a temporary site would be needed.</p>	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
2	Acquisitions, Displacements, and Relocations	192	4.3.14.4.1	K. Tassery	FAS	<p>Any limitation of access to and from the Fire Station may necessitate a temporary station for the City's emergency response.</p> <p>The City of Seattle will need adequate time to site, construct and equip a temporary fire station. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required approximately 24 months to operationalize.</p> <p>In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require additional funding.</p>	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
3	Acquisitions, Displacements, and Relocations	192	4.3.14.4.1	K. Tassery	FAS	<p>In the Public Services, Safety and Security section of the Ballard Acquisitions, Displacements and Relocations Chapter, under "Other Government Facilities", the Seattle Animal Shelter is not mentioned. Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response.</p>	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
4	Acquisitions, Displacements, and Relocations	194	4.3.14.4.5	K. Tassery	FAS	<p>In the Public Services, Safety and Security section of the Ballard Acquisitions, Displacements and Relocations Chapter, the Seattle Animal Shelter is not mentioned. Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response.</p> <p>In addition, access to FS 20 may be limited. Any limitation of access to and from the Fire Station may necessitate a temporary station for the City's emergency response.</p> <p>The City of Seattle will need adequate time to site, construct and equip a temporary fire station. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required approximately 24 months to operationalize.</p> <p>In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require additional funding.</p>	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
5	Acquisitions, Displacements, and Relocations	194	4.3.14.4.6	K. Tassery	FAS	<p>Fire Station 18 would be within a block of all alternatives. Sound Transit has committed to maintain access to the station at all times. If, for some reason, Sound Transit were not able to maintain access, the City may need to temporarily relocate the fire services.</p> <p>The City of Seattle will need adequate time to site, construct and equip a temporary fire station. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required approximately 24 months to operationalize.</p> <p>In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent experience with a temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require some additional funding.</p>	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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6	Acquisitions, Displacements, and Relocations	195	4.3.14.6	K. Tassery	FAS	In the Public Services, Safety and Security section of the Ballard Acquisitions, Displacements and Relocations Chapter, the Seattle Animal Shelter is not mentioned, and there are no mitigation measures listed for the facility. Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
7	Acquisitions, Displacements, and Relocations	209	4.3.16.3.4	K. Tassery	FAS	Fire Station 14, which is on a parcel of property impacted by the DUW-2 alignment is landmarked by the City of Seattle, but is not identified by Sound Transit as a historic site. The building was landmarked in ORD 122463. Designation materials on the website here: https://www.seattle.gov/Documents/Departments/Neighborhoods/HistoricPreservation/Landmarks/RelatedDocuments/fire-station-14-designation.pdf	SODO/CID	Discussion of impacts to Fire Station 14 as a historic resource are discussed in Appendix N.5, Historic and Archaeological Resources Technical Report, of the West Seattle Link Extension Final EIS.
8	Acquisitions, Displacements, and Relocations	194	4.2.14.4.1	K. Tassery	FAS	Any limitation of access to and from the Fire Station may necessitate a temporary station for the City's emergency response. The City of Seattle will need adequate time to site, construct and equip a temporary fire station. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required approximately 24 months to operationalize. In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent experience with a temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require some additional funding.	West Seattle (DUW, DEL, WSJ)	Comment noted. Sound Transit would coordinate with the Seattle Fire Department regarding relocation if an alternative that displaces the fire station is selected as the project to be built.
9	Acquisitions, Displacements, and Relocations	196	4.2.14.4.3.1	K. Tassery	FAS	The City of Seattle will need adequate time to site, construct and equip a temporary fire station. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required over a year to operationalize. In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent experience with a temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require some additional funding.	All (Systemwide)	Comment noted. Sound Transit would coordinate with the Seattle Fire Department regarding relocation if an alternative that displaces the fire station is selected as the project to be built.
10	Acquisitions, Displacements, and Relocations	197	4.2.14.6	K. Tassery	FAS	The City of Seattle will need adequate time to site, construct and equip a temporary fire station for FS 36. The temporary site must be geographically close to the permanent station, and must have sufficient space for vehicles, bunking equipment, living quarters, and specialized fire equipment. The most recent temporary fire station in Northgate, required approximately 24 months to operationalize. In addition, the City would need funding to site, construct and equip a temporary fire station. The most recent experience with a temporary fire station during construction of Fire Station 31 in Northgate has cost the City approximately \$5.6, over the course of three years. Most of this cost is due to the one-time costs associated with construction and siting, however there are some ongoing costs associated with the lease. A longer duration would require some additional funding.	West Seattle (DUW, DEL, WSJ)	Comment noted. Sound Transit would coordinate with the Seattle Fire Department regarding relocation if an alternative that displaces the fire station is selected as the project to be built.
11	L4.1 Acquisitions, Displacements, and Relocations	219	L4.1	K. Tassery	FAS	Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. There is no mention of this displacement or mitigation measures in this chapter. a. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response. b. According to the Sound Transit valuation formula this property would be a full acquisition for two of the proposed alignments, which would necessitate a full replacement of the facility and property acquisition. c. The existing 10,375 s.f. facility was constructed in 1981 and sits on a 19,800 s.f. parcel of land owned by the City of Seattle. The central location is important since this shelter is the only one operating and serves all of Seattle. d. FAS estimates that to replace the existing facility, the cost for property acquisition, hard costs and soft costs would be approximately \$21.7 million. e. In addition, FAS estimates that 5-7 years would be needed for full replacement (from community input, programmatic design, site acquisition, design, construction and move in). If City does not have sufficient time to complete a replacement facility, a temporary site would be needed.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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12	L4.1 Acquisitions, Displacements, and Relocations	227	L4.1	K. Tassery	FAS	Alignments SIB-2 and SIB-3 would displace the Seattle Animal Shelter. There is no mention of this displacement or mitigation measures in this chapter. a. The Seattle Animal Shelter (SAS) is critical infrastructure as the City has an obligation under the Seattle Municipal Code (SMC 9.25.040) to provide an animal shelter. This facility is the only City-operated shelter. In addition to a shelter, this facility also serves as the headquarters for the City's Animal Control function, which is an important part of the City's Public Safety response. b. According to the Sound Transit valuation formula this property would be a full acquisition for two of the proposed alignments, which would necessitate a full replacement of the facility and property acquisition. c. The existing 10,375 s.f. facility was constructed in 1981 and sits on a 19,800 s.f. parcel of land owned by the City of Seattle. The central location is important since this shelter is the only one operating and serves all of Seattle. d. FAS estimates that to replace the existing facility, the cost for property acquisition, hard costs and soft costs would be approximately \$21.7 million. e. In addition, FAS estimates that 5-7 years would be needed for full replacement (from community input, programmatic design, site acquisition, design, construction and move in). If City does not have sufficient time to complete a replacement facility, a temporary site would be needed.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
13	L4.1 Acquisitions, Displacements, and Relocations	96	L4.1	K. Tassery	FAS	Fire Station 14 in SODO would be partially acquired by Sound Transit in alignment DUW-2. Below are considerations which may impact the acquisition fee calculation for this parcel: a. The building was landmarked in ORD 122463. Designation materials on the website here: https://www.seattle.gov/Documents/Departments/Neighborhoods/HistoricPreservation/Landmarks/RelatedDocuments/fire-station-14-designation.pdf b. The portion of property with potential impact is the back/East parking area. There are underground utilities and storage located here, including vaults to collect water. Sound Transit should include an underground survey prior to construction. c. This area is used as a training facility for SFD. Substantial loss of space may require permanent relocation of training facilities.	West Seattle (DUW, DEL, WSJ)	Discussion of impacts to Fire Station 14 as a historic resource are discussed in Appendix N.5, Historic and Archaeological Resources Technical Report.
14	Ch 4 Affected Environment and Environmental Consequences	4.2.8-4	4.2.8.1.3	TJ McDonald	OEM	Floodplains: I do not see any consideration of sea level rise nor urban flooding hazards which are expected to worsen as extreme rainfall events increase in frequency and magnitude. A project of this scope and magnitude must build for the future. We recently experienced flooding in the South Park neighborhood in which tides were 1-2 feet over predicted levels. This project must include the best available science about what the flood hazard will be in the future. I recommend Sound Transit work with the Cosmos Project at the United States Geologic Service (https://www.usgs.gov/centers/pcmssc/science/ps-cosmos-puget-sound-coastal-storm-modeling-system). Additionally it should work with the Climate Impacts Group (https://cig.uw.edu) at the University of Washington to develop models to show flood risk over the life of the project. City of Seattle utilities have worked with CIG to better understand streamflows and snowpack.		Please see Section 2.1.2.3.7, Designing for Climate Change Resilience, of the Final EIS. Designing for climate change resiliency is a design consideration for all alternatives and not an impact that needs to be disclosed in Chapter 4. Please also see Appendix L4.8, Water Resources, for discussion of compliance with Executive Order 13690, Federal Flood Risk Management Standard.
15	Ch 4 Affected Environment and Environmental Consequences	4.2.8-8	4.2.8.3.3	TJ McDonald	OEM	I don't see that any consideration will be given to sea level rise and how it is anticipated to change the floodplain. The City of Seattle is using sea level rise analysis in the siting of its own critical facilities. Sound Transit should do the same.	SODO/CID	Please see Section 2.1.2.3.7, Designing for Climate Change Resilience, of the Final EIS. Designing for climate change resiliency is a design consideration for all alternatives and not an impact that needs to be disclosed in Chapter 4. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
16	Ch 4 Affected Environment and Environmental Consequences	4.2.11-1	4.2.11.1.1	TJ McDonald	OEM	This section mentions seismic sources, but fails to mention expected frequency of earthquakes from these sources nor the possible magnitudes. The USGS conducted a probabilistic seismic hazard assessment for Seattle with the results here - https://www.usgs.gov/node/102471 . Additionally, the M9 Project has developed new models of Cascadia Subduction Zone ground motions and research into the effects of long period waves on structures. Their site is at https://hazards.uw.edu/geology/m9/ .	SODO/CID	A Geotechnical Recommendations Report has been prepared for the West Seattle Link Extension Project as part of preliminary engineering, and information from this report is reflected in the impact analysis. This report includes consideration of seismic conditions.
17	Ch 4 Affected Environment and Environmental Consequences	4.2.11-2	4.2.11.1.3	TJ McDonald	OEM	The comment that "No evidence of fault movement was observed in the available soil boring exploration logs" seems to downplay the complexity with which the Seattle Fault expresses itself on the surface. Geologists have been attempting to better understand the paleoseismic history of the Seattle Fault for some time. They have found evidence of movement in other parts of the fault and we know the Duwamish was uplifted approximately 6 meters during the event 1100 years ago. Glaciation has removed a lot of the evidence for seismic activity.	SODO/CID	Comment noted. The EIS acknowledges seismic events would pose a risk to light rail facilities and users and states that Sound Transit would minimize the risk by designing the elevated, at-grade, and below-grade light rail support systems and retaining structures to withstand the effects of seismic ground shaking.
18	Ch 4 Affected Environment and Environmental Consequences	4.2.11-2	4.2.11.1.3	TJ McDonald	OEM	The statement about tsunami is vague and incomplete. The most impactful tsunami source for Seattle is the Seattle Fault. A large regional event would cause high velocity currents but unlike a Seattle Fault tsunami, would not run up on land. Tsunami can also be caused by landslides, including submarine landslides. Landslide caused tsunami have occurred in Tacoma and the Tacoma Narrows. A 2003 NOAA model of worst case Seattle Fault tsunami show .5 to 2 meters of inundation in parts of the all alignments. Washington State Department of Natural Resources is updating the tsunami model for the Seattle Fault. The project should incorporate their findings into design work. Link has the potential to be a valuable vertical evacuation structure. Vertical evacuation is needed because the wave arrival times from a Seattle Fault tsunami would be within minutes.	SODO/CID	The purpose of National Environmental Policy Act (NEPA) and State Environmental Policy Act (SEPA) documents is to disclose impacts of a proposed project on the built and natural environment. Design considerations for the project will be documented in other design and permitting related documentation to be reviewed by the City and any other agencies, as necessary, as design and permitting advance.

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19	Ch 4 Affected Environment and Environmental Consequences	4.2.11-4	4.2.11.3.1	TJ McDonald	OEM	From ADEIS: The frequency of earthquakes and tsunamis is very uncertain but it is known that in approx. 900AD an earthquake of about M 7.3 occurs on the Seattle Fault which runs roughly parallel to the alignment through the Duwamish Valley. The earthquake produced 6 meters of uplift on the southern side of the fault and generated a tsunami inside Elliott Bay which produced deposits on West Point in Magnolia. A 2003 NOAA model (OAR PMEL-124) estimated a repeat would inundate much of the area covered by the alignment in the Duwamish, SODO and Interbay Areas. This earthquake is considered a worst case. The Seattle area's climate and geologic history have obscured the paleoseismic record making estimates of the frequency of earthquakes and accompanying tsunami hard to estimate. The lack of data makes strong Seattle Fault earthquakes appear infrequent when we really don't know the frequency. The 'infrequency' lowers the Seattle Fault in design considerations. Given the uncertainty and the potential impacts, it would benefit the project to explicitly include the Seattle Fault in design.		See response to comment 18.
20	Executive Summary	ES-12-2-29	ES 12	TJ McDonald	OEM	ES.12. At Smith Cove / W Galer Station, all alignments pass through areas that a NOAA model predicts could be inundated by a Seattle Fault generated tsunami (https://www.pmel.noaa.gov/pubs/PDF/tito2572/tito2572.pdf). Such an event is very unlikely, but would be very dangerous. Provided the elevated track and station are built capable of weathering a tsunami, having an elevated refuge is a great benefit. Because a Seattle Fault tsunami would strike the Interbay area within minutes of an earthquake, it would be critical for people to have immediate access to high ground. The preferred alignment (SIB-1) is the better option because it is higher, further from the hillside of Queen Anne, and closer to the water. The preferred alignment is exposed to tsunami inundation at W Republican St / 5th Ave W. See https://seattlecitygis.maps.arcgis.com/apps/MapSeries/index.html?appid=0489a95dad4e42148dbef571076f9b5b for an interactive map.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
21	Acquisitions, Displacements, and Relocations	1	4.2.1.3	Bin Jung	OH	"There would be affected parcels that currently have income-restricted housing under the Multifamily Tax Exemption Program or that are managed by Seattle Housing Authority." The information necessary to identify impacts and compare alternatives is missing. Missing is reference to OH-funded buildings, which are all rent- and income-restricted housing (RIRH). ST must cross-check the OH's portfolio of RIRH units with the parcels affected to determine which alternative is the least harmful. Failure to do this makes the false claim that MFTE, MHA, and SHA buildings are the only affordable housing programs in the City. If this analysis has already been done, the language "OH-funded rent- and income-restricted affordable housing" should be incorporated throughout the report and clarified in map legends. It currently is not.	All (Systemwide)	Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for information regarding potential impacts to income restricted and affordable housing properties. Information on income-restricted housing provided by the Office of Housing was included in both the WSBL Draft EIS and the West Seattle Link Extension Final EIS analysis.
22	Acquisitions, Displacements, and Relocations	1	4.2.1.3	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Tables should show the number of parcels affected and displaced that have RIRH units through City-funded portfolio, MFTE, and SHA. This is critical to determine the least harm done by each alternative.	All (Systemwide)	Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, for information regarding potential impacts to income-restricted and affordable housing properties.
23	Acquisitions, Displacements, and Relocations	6	4.2.1.3.3	Bin Jung	OH	"Alternative DEL-3 would acquire buildings within the Edge Apartments, displacing some residential units." The information necessary to identify impacts and compare alternatives is missing. The Edge Apartments is one building, and displacing residential units would mean tearing down the whole building and all residential units.	West Seattle (DUW, DEL, WSJ)	The Edge is three buildings. No change needed.
24	Acquisitions, Displacements, and Relocations	2	4.2.1-1	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is income restrictions of a residential unit needs to be included on all charts outlining parcels affected and displacement, specifically if it is rent- and income-restricted, aka affordable housing.	All (Systemwide)	Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for information regarding potential impacts to income restricted and affordable housing properties. Where income-restricted units would be displaced, the number of units that would be displaced is provided in Section 4.4. Any displaced units are included in the number of residential displacements provided in Section 4.1, Acquisitions, Displacements, and Relocations.
25	Ch 6 Alternatives Evaluation	6	6.2.2.1.2	Bin Jung	OH	The methodology does not capture complete impacts of the project including housing impacts and displacements. Missing in the evaluation are analyses of these impacts. The City of Seattle uses this methodology to evaluate these impacts: Including RIRH as a Resource Impact Measure, including RIRH to the presented table, and disaggregating information into affordable and market rate housing.	All (Systemwide)	Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for more information on impacts to income-restricted housing.
26	Ch 2 Alternatives Considered	6	2.1.1.1.2	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is the use of each parcel, including rent- and income-restricted housing, which must be included in this analysis.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, of the Final EIS is to explain the project components, general alignments, and station locations. Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, for more information on Impacts to income restricted housing.
27	Acquisitions, Displacements, and Relocations	3	4.1.1.2	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is clarification of what partial acquisition mean when there is a building on site?	All (Systemwide)	Text had been added to Section 4.1.1, Introduction to Resource and Regulatory Requirements, of the Final EIS to clarify what would happen if there are buildings located on a property with a property acquisition.
28	Social Resources, Community Facilities, and Neighborhoods	5	4.1.4	Bin Jung	OH	The methodology does not capture complete impacts of the project including affordable housing. Missing in the evaluation are analyses of the impact to affordable housing. This impact should be explicitly listed in either definition, or separately, as the loss of affordable housing would be an impact on the human environment and neighborhood.	All (Systemwide)	Reference to income-restricted and supportive housing added to introduction to Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS. Potential impacts to these resources are covered in the impacts discussion.
29	Social Resources, Community Facilities, and Neighborhoods	2		Bin Jung	OH	The methodology does not capture complete impacts of the project including affordable housing. Missing in the evaluation are analyses of the impact to affordable housing. The impact of transportation investments on affordable housing, specifically the displacement of rent- and income-restricted units, will be a critical question asked by the public when evaluating in the impact and overall harm of the infrastructure investments. An analysis must be done comparing the parcels for each alternative and the RIRH parcels (OH-funded, MFTE, SHA) to understand how many RIRH units are being displaced by each alternative. If this analysis has already been done, it must be more explicit.	All (Systemwide)	Unclear what page is being referred to. Analysis of potential impacts to income-restricted housing units are covered in the impacts discussion of Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS.
30	Social Resources, Community Facilities, and Neighborhoods	2	4.2.1-1	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is the number of RIRH units in these figures.	All (Systemwide)	The discussion of impacts to rent- and income-restricted housing units is described in the text of Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS. Changes to the map were not made because the information is difficult to show at this scale.

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31	Social Resources, Community Facilities, and Neighborhoods	9	4.2.1.8	Bin Jung	OH	The information used is incomplete. Supportive housing is a type of affordable housing. When discussing Relocation Opportunities, rent- and income-restricted affordable housing must be included in addition to supportive housing.	All (Systemwide)	Relocation of difficult to relocate supportive housing and supplemental benefits for low-income residents is described in Section 4.1.9, Relocation Opportunities of the Final EIS.
32	Social Resources, Community Facilities, and Neighborhoods	9	4.2.1.8	Bin Jung	OH	"Research indicates that there are adequate opportunities for most residents and businesses to successfully relocate within the project vicinity." The information necessary to identify impacts and compare alternatives is missing. Missing are definitions and sources to the terms "research," "adequate," and "project vicinity," especially given Seattle's tight real estate market. If relocation is far from the original location, disruption to the social network and human environment and needs to be considered.	All (Systemwide)	It is important to note that relocations would be staggered over multiple years and not all replacement properties would be needed at the same time. An updated assessment of relocation opportunities is provided in Appendix L4.1, Acquisitions, Displacements, and Relocations. Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for discussion of the impacts of on neighborhoods and social cohesion.
33	Social Resources, Community Facilities, and Neighborhoods	47	4.2.4-1	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is MFTE buildings from Figure 4.2.4-1. These buildings have rent- and income-restricted units and should be included.	All (Systemwide)	Multifamily Tax Exemption (MFTE) buildings were addressed in the text of the WSBL Draft EIS and West Seattle Link Extension Final EIS documents. These buildings were not mapped because not all units in these buildings are income restricted and the restrictions expire; therefore, they are not considered permanent income-restricted housing.
34	Social Resources, Community Facilities, and Neighborhoods	52	4.2.4.1.5	Bin Jung	OH	The information used is outdated. Updated information is that the MFTE program now has a renewal option where buildings can opt-in the exemption for up to 24 years. The phrasing, "...although buildings currently in the program will likely no longer qualify by the time the project opens in 2032" should be reassessed. (https://senatedemocrats.wa.gov/das/2021/05/03/das-bill-expanding-affordable-housing-development-becomes-law/)	All (Systemwide)	MFTE buildings were addressed in the text of the WSBL Draft EIS and Final EIS documents. Text regarding the MFTE program was updated in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS.
35	Social Resources, Community Facilities, and Neighborhoods	54	4.2.4.3.1	Bin Jung	OH	"The Build Alternatives would not displace existing or currently planned buildings with income-restricted M.H.A. housing units." The information necessary to identify impacts and compare alternatives is missing. Missing is other programs provide RIRH units, such as the OH-funded portfolio, MFTE program, and SHA buildings. These programs should also be included in this statement.	All (Systemwide)	Information from the City on the affordable housing programs mentioned was collected from the City and used in the WSBL Draft and West Seattle Link Extension Final EIS. Updated data were provided by the Office of Housing and Seattle Housing Authority for the Final EIS. Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS discloses any impacts to these types of housing based on this information.
36	Social Resources, Community Facilities, and Neighborhoods	58	4.2.3.5	Bin Jung	OH	The information used is outdated. Updated information is that the MFTE program now has a renewal option where buildings can opt-in the exemption for up to 24 years. "However, the income restricted units in each building are commitments through their participation in the M.F.T.E. program and are assumed to expire 12 years after the building was constructed." The MFTE program has been renewed to 24 years after building's construction. This statement should be reassessed. (https://senatedemocrats.wa.gov/das/2021/05/03/das-bill-expanding-affordable-housing-development-becomes-law/)	All (Systemwide)	See response to comment 34. Information was added regarding the ability to extend the tax exemption.
37	Social Resources, Community Facilities, and Neighborhoods	58	4.2.4.3.5	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is OH-funded rent- and income-restricted units and SHA buildings.	All (Systemwide)	Updated data were provided by the Office of Housing and Seattle Housing Authority for the Final EIS. Section 4.4 of the Final EIS discloses any impacts to these types of housing based on this information.
38	Acquisitions, Displacements, and Relocations	1	4.3.1.3	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is reference to OH-funded rent- and income-restricted housing along the alignments in the write up describing types of affordable housing.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
39	Acquisitions, Displacements, and Relocations	6	4.3.1.3.3	Bin Jung	OH	"It could also require temporary relocation of about 120 residential tenants and the emergency shelter at the Y.W.C.A. on 5th Avenue as a result of construction noise. Some of these units receive M.H.A. funding from the City." The YWCA received OH funding and is now a completely 100% affordable housing building.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
40	Acquisitions, Displacements, and Relocations	8	4.3.1.8	Bin Jung	OH	"Property availability will change over time, but research indicates that there are adequate opportunities for most residents and businesses to successfully relocate within the project vicinity." Missing are definitions and sources to the terms "research," "adequate," and "project vicinity," especially given Seattle's tight real estate market. If relocation is far from the original location, disruption to the social network and human environment and needs to be incorporated.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
41	Acquisitions, Displacements, and Relocations	12	4.3.2.1.2	Bin Jung	OH	"Much of the Chinatown-International District study area has Mandatory Housing Affordability zoning." The information necessary to identify impacts and compare alternatives is missing. Missing is the other affordable housing programs available such as OH-funding and MFTE. The repeated emphasis on MHA and MHA zoning in each section is distracting and a narrow view of affordable housing development. It presents MHA as the only, or most effective, affordable housing program the City has, which is false.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
42	Economics	38	4.3.3.4.3	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is a statement that C-ID businesses serve primarily Asian Americans, low-income communities, and seniors. This is important when stating that construction could cause permanent relocation.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
43	Social Resources, Community Facilities, and Neighborhoods	45	4.3.4-2	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is clarification if the "income-restricted housing" here OH-funded RIRH housing, or just MHA housing. Please clarify and include all types of RIRH if not already done. This applies to all figures in both WS and B sections.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
44	Social Resources, Community Facilities, and Neighborhoods	55	4.3.4.1.5	Bin Jung	OH	"Some multi-family residential buildings in the study area also currently have rent- or income-restricted units through Seattle's Multifamily Tax Exemption (M.F.T.E.) program, although buildings currently in the program will no longer qualify by the time the project opens in 2037." The information used is outdated. Updated information is that the MFTE program now has a renewal option where buildings can opt-in the exemption for up to 24 years. This comment should be reassessed. (https://senatedemocrats.wa.gov/das/2021/05/03/das-bill-expanding-affordable-housing-development-becomes-law/)	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
45	Social Resources, Community Facilities, and Neighborhoods	57	4.3.4.3.1	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is the number of units of income-restricted housing in figures that present them.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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46	Social Resources, Community Facilities, and Neighborhoods	57	4.3.4.3.1	Bin Jung	OH	"The Build Alternatives would not displace any existing or currently planned affordable M.H.A. housing units." The information necessary to identify impacts and compare alternatives is missing. Missing is all RIRH, including OH-funded portfolio, MFTE, and SHA buildings.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
47	Social Resources, Community Facilities, and Neighborhoods	64	4.3.4.4.3	Bin Jung	OH	"Alternative CID-1a* could have approximately 120 residential displacements due to the loss of access to the ICON Apartment building during construction. This building includes 24 rent- and income-restricted units as a condition of the building's participation in the M.F.T.E. program. However, the building was constructed in 2015, which means the M.F.T.E. program requirements would expire by 2027, which is before the relocations would occur." The information used is outdated. Updated information is that the MFTE program now has a renewal option where buildings can opt-in the exemption for up to 24 years. This comment should be reassessed. (https://senatedemocrats.wa.gov/das/2021/05/03/das-bill-expanding-affordable-housing-development-becomes-law/)	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
48	Social Resources, Community Facilities, and Neighborhoods	64	4.3.4.4.3	Bin Jung	OH	The methodology does not capture complete impacts of the project. Missing in the evaluation is all forms of RIRH (OH-funded portfolio, MFTE, MHA, SHA) when discussing affordable housing units. Failure to do so is incomplete and misleading.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
49	Social Resources, Community Facilities, and Neighborhoods	65	4.3.4.4.4	Bin Jung	OH	"Construction of the Midtown Station entrance on 5th Avenue for Alternative DT-2 could require temporary relocation of tenants (126 units, 114 of which are M.H.A.-funded) and the shelter functions at the Y.W.C.A. (1118 5th Avenue) due to construction noise." This sentence is incorrect, the YWCA building is now a fully affordable OH-funded building.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
50	Appendix G - Environmental Justice	92		Bin Jung	OH	"Sound Transit anticipates that residential displacements would impact environmental justice populations to a greater degree because the only residential displacements would occur in a building that participates in the City of Seattle Multifamily Property Tax Exemption Program, where a number of units within the building have income restrictions." This sentence is unclear. But if ST is evaluating impact to RIRH, it must include all affordable housing programs, not just MFTE.	All (Systemwide)	See response to comment 34.
51	Appendix G - Environmental Justice	101		Bin Jung	OH	"The project could displace low-income housing that is unknown to Sound Transit (for instance, rental units that accept housing vouchers)." The information is incomplete. Has ST confirmed that it cannot get this information from SHA? If the information is obtainable, the only low-income housing that is unknown would be private market, "naturally occurring" affordable housing.	All (Systemwide)	It is not appropriate to include this information for privacy reasons as well as because the vouchers are associated with tenants and not units and therefore could change at any time if tenants move to new residences.
52	Appendix G - Environmental Justice	102		Bin Jung	OH	"The Goodwill Seattle Outlet and residents of the ICON Apartment (which includes affordable housing) would be displaced by Alternative CID-1a*." The information necessary to identify impacts and compare alternatives is missing. Missing is information for all affordable housing programs (OH-funded, MFTE, MHA, SHA).	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
53	Appendix G - Environmental Justice	21	3.1.2	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is explicit mention of affordable housing, and/or rent- and income restricted housing, in Study Area and Demographics in the environmental justice section. Affordable housing serves predominately low-income households color and has been identified as an EJ issue by low-income communities of color.	All (Systemwide)	Income-restricted and supportive housing is described in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS. The demographics of residents of this type of housing is reflected in the demographic information already presented in this section. Impacts to these resources are described in Section 5 of Appendix G, Environmental Justice.
54	Executive Summary	41	Table ES-5	Bin Jung	OH	The analysis is incomplete. Several significant impacts have not been identified. Has ST mapped all affordable housing program investments onto the alignments to conclude the number of residential displacements in all alternatives? If not, the chart here and describing the other sections could be incorrect and misleading.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
55	Executive Summary	55	ES.6.2	Bin Jung	OH	"The adverse effects associated with displacement of businesses and residences would be effectively mitigated by implementation of Sound Transit's real property acquisition and relocation policy and design measures, and best management practices would reduce the severity of potential construction impacts." This sentence is an aspirational and subjective statement written as fact.	All (Systemwide)	Please see the mitigation section of Section 4.1, Acquisitions, Displacements, and Relocations, and Appendix I, Mitigation Plan, of the Final EIS for information on implementing Sound Transit's Real Property Acquisition and Relocation Policy, Procedures, and Guidelines (Sound Transit 2017).
56	Executive Summary	55	ES.6.2	Bin Jung	OH	"The project would result in adverse impacts to the environmental justice populations in the Chinatown-International District during both operations and construction..." The information necessary to identify impacts and compare alternatives is missing. Missing is if this qualifies as "disproportionately high and adverse as defined in EO 12898 and the US DOT Order 5610.2(a)? Other alternatives were described as not being disproportionately high and adverse, the same benchmark should be applied here.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
57	Executive Summary	56	ES.9	Bin Jung	OH	The information necessary to identify impacts and compare alternatives is missing. Missing is mention that the C-ID 5th Avenue option is controversial and has received strong community and agency feedback due to its disproportionately high and adverse impact.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
58	Appendix J - Conceptual Design Drawings			Kyle Ho	SCL	Conflicts indicated will be addressed once a final design has been decided as currently not addressed yet besides E3 busway	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
59	Appendix J - Conceptual Design Drawings			Kyle Ho	SCL	Confirm/finalize TPSS locations so any needed feeder upgrades to serve TPSS can done ahead of time	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
60	Ch 2 Alternatives Considered	2-55	2.1.2.2.2	Kelly Purnell	SCL	5th Ave Shallow (CID-2a) This is the most impactful alternative to the Denny-Mass Transmission line project. The preferred alignment shares the same pathway along 6th Ave starting just north of S. Massachusetts St. (SB-S 95+00) up to Airport Way/Seattle Blvd., and then along 5th Ave from Airport Way all the way to Jefferson St.(SB-S 47+00)	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
61	Ch 2 Alternatives Considered	2-55	2.1.2.2.2	Kelly Purnell	SCL	5th Ave Shallow (CID-2a) The shallower depth (90') would be a cut and cover which could cause complications for the overhead portion the transmission line given the width the proposed track lines. The T-line conflicts here are along 6th Ave from just south of Royal Brougham Way (SB-S 89+00) to approximately (SB-S 95+00). The crossing at Massachusetts St may also complicate the overhead transmission crossing	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
62	Appendix J - Conceptual Design Drawings	140-141	B01-ASX100	Kelly Purnell	SCL	5th Ave Shallow (CID-2a) The shallower depth (90') as a cut and cover would be a significant problem for the underground portion of the t-line from the above point on 6th Ave (SB-S 95+00) all the way along 5th Ave to approximately Jefferson St (SB-S 47+00) where the t-line and ST route deviate. In particular, the construction of the station would be problematic as it is likely to take up most of the ROW. There is very little room along the margins of the ROW, even using easements, to install the UG t-line and the construction impacts would not be avoidable. Concurrent construction of the tunnel/station and transmission line duct and vault would be necessary.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
63	Appendix J - Conceptual Design Drawings	142	B01-ASP100a	Kelly Purnell	SCL	5th Ave Shallow (CID-2a) Diagonal Station: While still posing many of the same complexities for the Denny-Mass Transmission line as the above option, the station itself presents fewer problems as it is aligned diagonally where existing buildings sit, and not full in the 5th Ave ROW. This is preferred from a transmission line standpoint.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
64	Appendix J - Conceptual Design Drawings	145	B01-ASP300	Kelly Purnell	SCL	5th Ave Deep (CID-2b) This alternative is marginally better than CID-2a in that it can be mined rather than a cut and cover due to it being twice the depth for both the tunnel and station. •This would still require close coordination and design collaboration with ST to ensure that there are minimal conflicts with the two projects, especially at the station location.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
65	Executive Summary	ES-28	ES.3.1.2.2.	Kelly Purnell	SCL	•"Construction in the station area for Alternative CID-2a would take approximately 8 to 9 years and Option CID-2b would take approximately 6.5 to 7.5 years. The construction duration for the Alternative CID-2a diagonal station configuration would be shorter. It is anticipated that construction in the station area of the diagonal station configuration would take approximately 5 to 6 years" oThe construction of either CID-2a or CID-2b is significant. With an in service date of 2032 this would at a minimum require construction to start in 2025. Coordination with ST for the transmission line needs to begin NOW. Environmental and outreach updates on the DMT needs to become a priority	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
66	Ch 5 Cumulative Impacts	5-22	5.4.16	Kelly Purnell	SCL	City Light has committed to minimizing impacts to the CID to the extent possible. To achieve avoidance of additional cumulative impacts during the Denny-Massachusetts Transmission line build along 5th Ave, it is imperative that Sound Transit, City Light and other agencies closely coordinate the projects and work together to allocate space for the underground transmission line above the tunnel and subterranean station.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
67	Executive Summary	ES-28	ES.3.1.2.2.	Kelly Purnell	SCL	5th Ave Shallow (CID-2a) "would require utility relocations including Pigeon Alley, which houses the Sound Transit fiber optic backbone for light rail operation, along with several other utilities" – this excerpt from the executive summary is an indication that this alternative could cause pushback on SCL installing the transmission line. This alternative will require close coordination and design collaboration with the Denny-Mass t-line to eliminate as many risks and complications as possible in installation of both forms of infrastructure with the least amount of impact to the community	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
68	Technical Report: Historic and Archaeological Resources	N.5A-17		Rebecca Ossa, SCL	SCL	Need additional information re: this property's determination of eligibility to understand the split between one area or building that is eligible vs another that is not. This is referring to item "# 5139 725921 7666205660 1924 Seattle City Light South Receiving Substation Switchyard 3839 4th Avenue South Not Eligible (pending consultation) Duwamish."	All (Systemwide)	In addition to the Seattle City Light South Receiving Substation, the following are now listed as separate eligible resources in Table 9-3 of Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS: Seattle City Light Receiving Substation Switchyard, Seattle City Light Warehouse and Office Building, and Seattle City Light South Rectifier Substation.
69	Technical Report: Historic and Archaeological Resources	3-1, AE 0036-17		Rebecca Ossa, SCL	SCL	Re: the "Relocation of a 230-kilovolt power line along 6th Avenue South and Diagonal Avenue, south of South Spokane Street, leading to the Seattle City Light Substation within the Duwamish Segment," has this transmission line been evaluated for National Register eligibility?	All (Systemwide)	Text was added in Section 10.4.2.2, Effects to Historic Built Environment Resources, SODO Segment, of Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS stating that the transmission line does not meet the age requirement and is not considered historic.
70	Technical Report: Historic and Archaeological Resources	10-10, AE0036-17		Rebecca Ossa, SCL	SCL	Re: "Common to all Build Alternatives in this segment is the relocation of a 230-kilovolt power line along 6th Avenue South and Diagonal Avenue, south of South Spokane Street, leading to the Seattle City Light Substation. This project element would not directly or indirectly alter or diminish any aspect of integrity of adjacent historic properties," has the transmission line been evaluated for NR eligibility?	All (Systemwide)	Text was added in Section 10.4.2.2 of Appendix N.5 stating that the transmission line does not meet the age requirement and is not considered historic.
71	Chapter 4	Pg. 4.2.15-3	29 thru 31	William Chin/Kyle Ho	SCL	What about access to SSC for construction for permanent footing shown on SCL property?	All (Systemwide)	The intent of this comment is unclear. Sound Transit will continue to coordinate with Seattle City Light regarding effects to their facilities through final design.
72	Chapter 4	Pg. 4.2.15-4	15 thru 22	SCL	SCL	Add discussion regarding major utility impacts. 230 kV relocation to 6th Ave S would/may require full/partial closures to installed drilled pier foundations and erect poles to maintain required clearances to energized lines, which would include the existing 26 kV line along the west/east side of 6th Ave S. Depending on timing of utility relocation work, may have impacts	All (Systemwide)	Section 3.11, Construction Impacts, of the Final EIS includes partial road closures for relocation of the 230-kilovolt (kv) lines on 6th Avenue South. The discussion of this relocation has also been updated in Section 4.15, Utilities.
73	Ch 3 Transportation	3-146	3.19.6.2	SCL	SCL	Table 3-32 identifies possible long term street closures for that would be impacting 17th Ave West/Thorndyke Ave West, from West Dravus Street to 16th Ave West, which SCL has an existing property that is planned to be developed into a new proposed substation. Construction impacts, as assumed, will need to be coordinated closely with the SCL Design and future construction of the proposed Interbay Substation.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
74	Utilities	Pg. 4.2.15.1	4.2.15	SCL	SCL	100' for all major utilities or all utilities? Need to clarify. If analysis includes all non major utilities, then 100' may need to be expanded. Please include the proposed 230 kV alignment(s) along 6th Ave S within the project area as we think it is out of the 100' analysis and needs to be evaluated as part of the project DEIS.	All (Systemwide)	The 100-foot study area is what is specified in the methodology document and, per the methods, only major utilities are included, which is appropriate for identification of the potential for direct and indirect significant adverse effects and comparison of alternatives. The proposed 230-kV transmission line is included in Section 4.15, Utilities, of the Final EIS and is in the project study area.
75	Utilities	Pg. 4.3.15.1	4.3.15	SCL	SCL	100' for all major utilities or all utilities? Need to clarify. If analysis includes all non major utilities, then 100' may need to be expanded, as there are additional utility impacts outside of the 100' that may need to be considered, especially as design or analysis has not been completed to resolve all alignment conflicts, clearances, etc.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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76	Utilities	Pg. 4.2.15-2	4.2.15.3	SCL	SCL	This section identifies that major disruptions our outages to utility customers will be highly unlikely. The final design will dictate this and language should be changed to indicate that design elements and efforts will be focused on ensuring that service disruptions will be limited during "maintenance and operation of light rail facilities"	All (Systemwide)	Added "and would be limited if they occur" after "unlikely."
77	Utilities	Pg. 4.2.15-3	4.2.15.4	SCL	SCL	This discussion identifies that temporary connections to utility customers will be established before relocation. That may not be feasible for SCL OH System and we are recommending that ST evaluate corridors with high likelihood of power outages, such as the Downtown Network Area, 6th Ave South Corridor, and the 14th Ave NW Corridor.	All (Systemwide)	No change needed in Final EIS. No such corridors identified in this study area.
78	Utilities	Pg 4.2.15-5	4.2.15.6	SCL	SCL	Add language to clarify that other alternative routes for the 230 kV line relocation may be considered, such as along 4th Ave S and language to relocate major utilities, if feasible, to ensure that they meet minimum standards and avoid conflicts that may hinder safe and normal electrical maintenance and repair operations, as well as ST Light Rail Maintenance and Operations. This effort in ongoing and SCL supports the effort	All (Systemwide)	Based on coordination to date between Sound Transit and Seattle City Light, 6th Avenue South has been identified as the preferred corridor for relocation of the 230-kv lines. The Final EIS notes that other locations could be considered during final design.
79	Utilities	Pg 4.3.15-2	4.3.15-3	SCL	SCL	This section identifies that major disruptions our outages to utility customers will be highly unlikely. The final design will dictate this and language should be changed to indicate that design elements and efforts will be focused on ensuring that service disruptions will be limited during "maintenance and operation of light rail facilities"	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
80	Utilities	Pg 4.3.15-3	4.3.15.4.	SCL	SCL	This discussion identifies that temporary connections to utility customers will be established before relocation. That may not be feasible for SCL OH System and we are recommending that ST evaluate corridors with high likelihood of power outages, such as the Downtown Network Area, 6th Ave South Corridor, and the 14th Ave NW Corridor.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
81	Utilities	4.3.15-6	4.3.15.4.6	SCL	SCL	Any alternate location(s) to replace the existing Interbay Substation Property will need to provide both the same system capacity, redundancy, and reliability to the SCL system that the current site, as well as proposed Interbay Substation design/improvements. SCL and ST have engaged in discussion surrounding acceptable site and design parameters	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
82	Fact Sheet	vi		Lindsay King	SDCI	The list of City of Seattle anticipated permits and approvals is incomplete. Add demolition, temporary construction staging, construction and trade permits as a separate line. These permits are separate from the Master Use Permit.	All (Systemwide)	In response to this comment, a bullet has been added in the Anticipated Permits and Approvals section of the Fact Sheet to include construction permits such as building, grading, and demolition permits.
83	Ch 2 Alternatives Considered	2-85	2.6.2	Rob McIntosh	SDCI	The last paragraph in this section needs to be revised. Please update the narrative to state that complete stabilization of ECA Steep Slope Areas and their buffers will be required for all areas of disturbance. It must also stated that the Steep Slope stabilization for the areas will be required to be the least intrusive measures possible (SMC 25.09.065). Complete stabilization of the areas to be developed will be required for all stages of construction and for the completed work. It would be a good idea to include piles, tieback anchors, and drilled shafts among the stabilization options in the last sentence.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see Section 4.11, Geology and Soils, of the Final EIS for information on slope stability.
84	Ch 2 Alternatives Considered			Lindsay King	SDCI	The EIS identifies displacing maritime businesses/industries/moorage which are directly dependent upon their adjacency to water. Multiple sections of the ADEIS acknowledge the direct and indirect impacts of build alternatives on maritime industries: Acquisitions- 4.2.1.3.2 and 4.3.1.3.5 and Economics- 4.2.3.3.3, 4.2.3.5, 4.3.3.3, 4.3.3.3.6, 4.3.3.5. The DEIS mitigation includes relocating the businesses (4.2.1.6 and 4.3.1.6), but also acknowledges displacement of maritime business will have ripple effects on other maritime-related businesses and relocation will be difficult or impossible (ES.5-page 64). Displacement of maritime business are identified as significant and unavoidable adverse impacts. The EIS analysis should include a more detailed assessment of impacts and mitigation, including: a) Assessment of modifications to the current alternatives (e.g., modifications to the design and additional mitigation measures that can be incorporated into the alternative) to minimize and mitigate impacts to key industries that are impacted by alternatives. If a modified alternative is reasonable and would achieve additional mitigation benefits beyond the current alternatives this should be discussed in the EIS, and b) The EIS should include a more detailed discussion of the potential mitigation measures, including an assessment of the measures' effectiveness and whether these displacement impacts can be avoided. The EIS should discuss specific potential mitigation measures to address displacement, and assess whether those measures are likely to be effective in reducing or eliminating displacement impacts. The EIS should indicate whether a project's environmental impacts can be fully remedied at a reasonable cost.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see response to CCG1 and CC4.3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
85	Technical Report: Transportation	3-3	3.2.1.1	John Shaw	SDCI	In the 8th line, the text makes a reference to 35th Avenue Southeast; this should be 35th Avenue Southwest.	West Seattle (DUW, DEL, WSJ)	This has been corrected for the Final EIS.
86	Technical Report: Transportation	3-5	3.2.1.3	John Shaw	SDCI	Table 3-4: It's not clear how these headways and LOS were determined. If a route crossing a screenline, such as the Rapid Ride C line at the West Seattle Bridge, has LOS A, how could the existing bus service frequency at that screenline be less than that?	West Seattle (DUW, DEL, WSJ)	The numbers presented in these level of service (LOS) tables are averages of all the routes that cross the screenlines. While some routes are LOS A, others are lower, so the average may be less than LOS A. For the Final EIS, peak-only routes have been split from all-day routes to provide more insight into service patterns. Text was added to clarify how the measure was calculated.
87	Technical Report: Transportation	3-6	3.2.1.3	John Shaw	SDCI	Footnote 1 is confusing. It notes that Link Light Rail is not included in the discussion of reliability to highlight the performance of bus service, but LLR also was not included in discussions of other LOS measures, such as frequency and span. Additionally, the last sentence in the paragraph to which the footnote refers does discuss light rail reliability. I suggest the footnote be removed or reworked.	West Seattle (DUW, DEL, WSJ)	Footnote has been removed.
88	Technical Report: Transportation	4-2	4.1.1	John Shaw	SDCI	In the last bullet in this section, the reference to Fautleroy Way Southeast should be to Fautleroy Way Southwest.	West Seattle (DUW, DEL, WSJ)	This has been corrected for the Final EIS.
89	Technical Report: Transportation	4-19	4.2.2.2	John Shaw	SDCI	Table 4-9: The note below the table refers to the 2042 no build condition; is that meant to be 2032?	West Seattle (DUW, DEL, WSJ)	This table was not carried forward in the Final EIS.
90	Technical Report: Transportation	4-72	4.2.2.3	John Shaw	SDCI	The text states, "Efforts would be made to minimize any simultaneous closures of 35th Avenue Southwest and Fautleroy Way Southwest". Given the likely substantial impacts of simultaneous closures, Sound Transit should commit to developing an explicit plan, with City approval and perhaps included in the Construction Access and Traffic Management Plan, to mitigate the effects of closing these roadways at the same time.	West Seattle (DUW, DEL, WSJ)	Table note added. The construction team identified that the 35th Avenue full closure would not overlap with the Fautleroy Way partial closure.
91	Technical Report: Transportation	4-88	4.3.1.2	John Shaw	SDCI	Table 4-41: AM peak hour results for 15th Avenue Northwest/Northwest 54th Street and 15th Avenue Northwest/Northwest Market Street should be shaded, as they are LOS E.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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92	Technical Report: Transportation	4-88	4.3.1.2	John Shaw	SDCI	The text referring to Figure 4-29 should note that it shows results for both the AM and PM peak hours.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
93	Technical Report: Transportation	4-94	4.3.2.2	John Shaw	SDCI	The description of the preferred alternative for the Interbay/Ballard segment states that the northbound travel lane would be shifted west to which roadway is this referring? (See also Option IBB-1b on the same page.)	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
94	Technical Report: Transportation	4-121	4.3.2.3	John Shaw	SDCI	The text just before Table 4-52 refers to "...volumes diverted to other roadways in the West Seattle area". This probably should be "other roadways in the SODO area".	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
95	Technical Report: Transportation	4-144	4.3.2.3	John Shaw	SDCI	The text notes that closure of the northbound curb lane on 15th Avenue Northwest could slightly increase congestion on this roadway. As LOS at the intersections of 15th Avenue Northwest with Northwest 54th Street and Northwest Market Street are at E and F at peak hours, why would a lane closure only slightly increase congestion?	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
96	Technical Report: Transportation	5-14	5.2.2.2	John Shaw	SDCI	The discussion of construction worker parking under Impacts Common to All Alternatives is confusing. If construction worker vehicles would be limited only to the number that could park within construction staging areas, why would workers be parking on nearby streets? (See similar text on page 5-25.) Please note that Section 23.42.044 of the Land Use Code addresses permitting and impact mitigation for construction-related parking impacts.	All (Systemwide)	Text related to construction worker parking and mitigation has been updated to reflect Sound Transit's contractor provision on prior projects.
97	Technical Report: Transportation	5-14	5.2.2.2	John Shaw	SDCI	To the extent that construction worker parking does occur on streets near construction sites, what has Sound Transit learned in terms of likely impacts and mitigation for such impacts from past construction work that could be applied to this project to avoid or lessen these impacts? (Also applies to corresponding section on page 5-25.)	All (Systemwide)	See response to comment 96.
98	Technical Report: Transportation	9-15	9.2.2.2	John Shaw	SDCI	In the Delridge segment, would alternatives DEL-1b, DEL-2a, DEL-2b, DEL-3, DEL-4, and DEL-6 affect any load zones during construction?	West Seattle (DUW, DEL, WSJ)	The Final EIS provides additional detail related to different types of load zones and describes potential permanent or temporary loss of these zones. Detail added to Appendix N.1, Transportation Technical Report, of the Final EIS.
99	Technical Report: Transportation	9-25	9.3.2.2	John Shaw	SDCI	The last paragraph in the Interbay/Ballard Segment Preferred Alternative (IBB-1a) is an incomplete sentence.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
100	Technical Report: Transportation	9-29	9.3.3.2	John Shaw	SDCI	The fifth paragraph states, "Sound Transit would coordinate with the City of Seattle to relocate these commercial load zones". Strike the word "commercial," and join this sentence with the text beginning "For locations," which is a sentence fragment.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
101	Acquisitions, Displacements, and Relocations		4.2.1.3 & 4.3.1.3	Lindsay King	SDCI	The information necessary to identify impacts and compare alternatives is missing. The analysis does not identify the number of partial property acquisitions by alternative. Partial property acquisitions may create remnant parcels that do not meet legal building site standards for the City of Seattle (SMC 23.84A.024 definition of "lot"). See example on Figure L4.1-8c, page 109 Appendix L.	All (Systemwide)	Comment noted. during the appraisal process, Sound Transit considers if the remaining property would be an 'uneconomic remnant;' if the remaining parcel is found to have little or no economic value or utility to the property owner, they will give the property owner the option to be bought out completely. This is a requirement of the Uniform Relocation Act and Federal Transit Administration (FTA) guidelines. The assumptions for displacements in the Final EIS have taken this into account.
102	Acquisitions, Displacements, and Relocations		4.2.1.6 & 4.3.1.6	Lindsay King	SDCI	Update mitigation measures to state- Construction of the project would comply with federal and local regulations regarding relocation. City of Seattle regulations include Tenant Relocation Assistance Ordinance (22.210).	All (Systemwide)	As described in Seattle Municipal Code 22.210.040(F), the ordinance does not apply if relocation assistance is required to be paid to the tenants pursuant to state, federal, or other law, unless such law requires application of Chapter 22.210. Sound Transit has coordinated with the City regarding this ordinance.
103	Land Use		4.2.2.3 & 4.3.2.3	Lindsay King	SDCI	The information necessary to identify impacts and compare alternatives is missing. The analysis does not identify the above grade guideway segments that would be located above the maximum allowed zoning height.	All (Systemwide)	Guideway height is not compared to zoning height limits as the Seattle's essential public facilities code specifies that tracks and their supporting structures do not require Master Use Permits and the City has not historically regulated the height of Sound Transit guideways. The range of guideway height is provided in Chapter 2, Alternatives Considered, of the Final EIS, which includes a plan and profile graphic for each alternative. The visual impact analysis in Section 4.5, Visual and Aesthetic Resources, and Appendix N.2, Visual and Aesthetics Technical Report, of the Final EIS provides additional information about the guideway in relation to the surrounding area.
104	Land Use		4.2.2.6 & 4.3.2.6	Lindsay King	SDCI	Update mitigation measures to state- Construction of the project would comply with local regulations including the Seattle Land Use Code (SMC 23.42.044) for construction impacts.		Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
105	Visual and Aesthetics	4.2.5-27 & 4.3.5-19	4.5.2.6 & 4.5.3.6	Jerry Suder	SDCI	Mitigation should include anti-graffiti design of all above grade infrastructure and a commitment to on-going physical anti-graffiti monitoring and rapid-response maintenance (i.e. during both construction and long-term operation).	All (Systemwide)	Project mitigation focuses on types of potential mitigation that mitigate visual impacts from the project implementation. Details of mitigation will continue to be developed through the final design and permitting process in coordination with the City. Sound Transit requires graffiti-resistant materials and coatings for projects and the standard for graffiti removal is 24 hours within reporting. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
106	Visual and Aesthetics	4.2.5 & 4.3.5 and Technical Report: Visual	4.2.5.3 & 4.3.5.3	Jerry Suder	SDCI	Light, glare and shadow analysis should identify light, glare and shadow impacts to the waterways, wetlands and riparian corridors and any additional analysis and local code requirements (SMC 23.60A.152 and SMC 25.09) discussed in the Ecosystems chapter.	All (Systemwide)	Please see Section 4.9, Ecosystems, of the Final EIS for information regarding potential impacts to riparian corridors and species.

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107	Technical Report: Visual	Page 2-1	Section 2-2	Jerry Suder	SDCI	Second to last paragraph- distinction is made between recreation trail/bike users as sensitive viewers yet pedestrians/bikes using sidewalk for trail for transportation purposes are categorized as not sensitive. Acknowledge that the recreation users may also be transportation users such that visual impact to all transportation users is not negated.	All (Systemwide)	The commented-upon sentence in Section 2.2 of the Visual and Aesthetics Technical Report for the Final EIS has been revised to clarify the text.
108	Visual and Aesthetics	4.2.5-4	4.2.5.3.2	Jerry Suder	SDCI	Global comment regarding documentation of visual impacts throughout Chapter 4.2 & 4.3- Section 4.2.5.3.2 states in the SODO segment due to a lack of concentration of sensitive viewers, there is no adverse impact. While the impact may be greatly reduced, there still is an adverse impact. There will be sensitive viewers even if not in concentration.	All (Systemwide)	The definition of "visual impacts" per the methodology being used for the Final EIS that was provided to the City is definitively tied to the existence of concentrations of sensitive viewers; this is articulated in Final EIS Section 4.5.2 and Appendix N.2, Visual and Aesthetics Technical Report Section 2.2. As such, there cannot be an "adverse effect" related to visual impacts at any given location if there is not a concentration of sensitive viewers at that location. Based on this, no changes are have been made in response to this comment. Please see the response to comment 123 with respect to the methodology used for the visual assessment in the Final EIS.
109	Technical Report: Visual	Page 4-1 through 4-42	Chapter 4	Jerry Suder	SDCI	Designated Scenic Routes should have a small representative sample of the photo analysis in the technical report to visually show an example of the type of impact as seen from a scenic route. This could either be done per segment or at a higher level for the alignment overall since the detail is in the technical report.	All (Systemwide)	Photo simulation views off/from State Route 99, the West Seattle Bridge, and South Spokane Street have been added (as well as associated visual impact analysis for these views); see Appendix N.2, Attachment N.2A, KOP WS-1, KOP WS-4, KOP WS-5, and KOP WS-6.
110	Technical Report: Visual	Page 4-9		Jerry Suder	SDCI	City of Seattle Designated Scenic Routes and Public View Protection- for each alignment alternative and type of bridge design, the Technical analysis of view impacts from West Seattle Bridge should include reference to how much lower the structure would need to be constructed to avoid the visual impact from the scenic route with references to how that relates to minimum elevation needed for that structure and alignment. (See KOP WS-2 for reference)	West Seattle (DUW, DEL, WSJ)	The new rail bridge vertical clearance is prescribed by United States Coast Guard requirements, therefore lowering it would not be a feasible option.
111	Technical Report: Visual	Page 4-9		Jerry Suder	SDCI	The Scenic Route is listed as the West Seattle Bridge but SEPA SMC 25.05.675P Attachment 1 refers to the two source documents describing "routes" (Ord 97025) and "protected view right of way" (Open Space Policy). The West Seattle Bridge was constructed along the 'route' in Spokane Street 'right of way' after these documents were created. While the West Seattle Bridge is a scenic route since it was constructed in the Spokane Street alignment. Spokane Street and the lower level Spokane Street bridge, which were in existence at the time these documents were created, is also considered a Scenic Route. Some analysis of lower level Spokane Street as a Scenic Route should be included. Note years: Ord 97025 1968; Open Space Policy 1987; West Seattle high level bridge opened to traffic in 1991.	West Seattle (DUW, DEL, WSJ)	See response to comment 109.
112	Visual and Aesthetics	4.2.5-28; 4.3.5-19	4.2.5.6 & 4.3.5.6	Jerry Suder	SDCI	Scenic Route Views - vegetation used as mitigations elsewhere for quality of view impacts or aesthetics should not be allowed to further intrude into scenic route views if the vegetation will obscure protected views.	All (Systemwide)	New plantings would be consistent with Sound Transit operations and maintenance requirements and, in accordance with Seattle Municipal Code Ordinance 25.05.675.P, no mitigation is proposed that would result in potential blockage of or intrusion on existing views from scenic routes. See also response to comment 105.
113	Visual and Aesthetics	4.2.5-28; 4.3.5-19	4.2.5.6 & 4.3.5.6	Jerry Suder	SDCI	Vegetation should be acknowledged as only a minor mitigation in most instances. Mitigation measures should include selective planting of vegetation with a range of maturity (at least some larger trees and shrubs) so as to afford more immediate mitigation than only planting juvenile plants. Vegetation mitigation should include design and maintenance plans to limit unauthorized use of landscape space by preventing the growth of 'hiding places'.	All (Systemwide)	Project mitigation focuses on types of potential mitigation that mitigate visual impacts from the project implementation. Details of mitigation will continue to be developed through the final design and permitting process in coordination with the City. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
114	Visual and Aesthetics	4.2.5-28; 4.3.5-19	4.2.5.6 & 4.3.5.6	Jerry Suder	SDCI	In addition to visual unity, mitigation plans should include efforts to prevent blocking open sightlines, especially along streets, sidewalks, and trails (See KOP WS-7 for example of failing to maintain good sightline regarding the mid-street column).	All (Systemwide)	Project mitigation focuses on types of potential mitigation that mitigate visual impacts from the project implementation. Details of mitigation will continue to be developed through the final design and permitting process in coordination with the City. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
115	Visual and Aesthetics	4.3.5-3	4.2.5.3.1 & 4.3.5.3.1	Jerry Suder	SDCI	First bullet- 'balanced set of system-wide elements and contextual elements' should allow for flexibility to incorporate site specific design elements throughout the system to increase visual interest. This section should also note that Sound Transit and the City of Seattle are in the process of developing Light Rail Specific Design Guidelines to guide project design through the permitting process.	All (Systemwide)	An extra bullet has been added to Section 4.5.4.1 to address this comment.
116	Visual and Aesthetics	4.2.5-28; 4.3.5-19	4.2.5.6 & 4.3.5.6	Lindsay King	SDCI	Mitigation Measures- Please update mitigation for all alternatives to state bridge design, column, guideways profiles and support structures (hi-rail access ramps, TPSS, vent structures) shall be studied, located, and designed to minimize view, shadow and height, bulk, and scale impacts.	All (Systemwide)	Text has been added to Final EIS Section 4.5.7 to specify structures in response to this comment. See also response to comment 917.
117	Visual and Aesthetics	Global	4.2.5, 4.3.5 and Technical Report	Jerry Suder	SDCI	"Design review" as a term is referenced throughout DEIS but is a confusing term since Seattle has a Design Review program (SMC 23.41) that does not apply to light rail transit facilities. Use alternate terms such as Design Commission review or other appropriate term throughout the document in place of design review.	All (Systemwide)	Text has been revised in third bullet under Section 4.5.4.1 to address comment.
118	Visual and Aesthetics	4.3.5-2	4.3.5.1.3	Jerry Suder	SDCI	Interbay/Ballard segment is shown as having no concentration of sensitive users on either side of Salmon Bay yet a recreation trail crosses under the south end of the Ballard Bridge and the 14th Ave NW Boat Launch and dock are in close proximity to the north end of the bridge.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
119	Visual and Aesthetics	4.3.5-13	Figure 3.3.5-4	Jerry Suder	SDCI	KOP B-8 references a view from Dock Street Dock. Seattle does not have a Dock Street in that location. If this is a reference to a private business or other place, it should be better labelled or otherwise described.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
120	Visual and Aesthetics	Global	4.2.5 and 4.3.5	Jerry Suder	SDCI	The DEIS analysis lacks visual representation to support narrative. Where visual impacts are identified for City of Seattle Designated Scenic Routes and viewpoints add a representative photo from the Technical Report into main document in Chapters 4.2.5 and 4.3.5 (example KOP B-10 and the analysis on page 4.3.5-17 in section 4.3.5).	All (Systemwide)	The Final EIS contains additional visual simulations to support the analysis for the preferred alternative. See response to comment 109 above regarding Scenic Routes.

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121	Visual and Aesthetics		4.3.5	Jerry Suder	SDCI	DEIS is lacking in analysis of visual and aesthetic impacts for the Downtown Segment. Though mostly underground, new or revised headhouses, emergency escape access points, ventilation shafts and other features would have impacts that warrant analysis and proposed mitigation measures.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
122	Visual and Aesthetics		4.2.5	Lindsay King	SDCI	DEIS is lacking in analysis of visual and aesthetic impacts near City of Seattle landmarks- Duwamish Railroad Bridge and Fire Station #14 (SMC 25.05.675.P.2.b).	West Seattle (DUW, DEL, WSJ)	Please refer to the visual impact analysis methodology outlined in Appendix N.2, Visual and Aesthetics Technical Report. Impacts to historic properties are discussed in Section 4.16, Historic and Archaeological Resources.
123	Technical Report: Visual	Page 2-4	Section 2.3	Jerry Suder	SDCI	Regulatory requirements mentions that there are several policies and regulations of relevance but only specifies details of SEPA policies. Include the Landmark Preservation Ordinance (SMC 25.12) and the Seattle Land Use Code (SMC 23).- which includes standards to minimize light and glare, shadows, height, bulk & scale, and view impacts.	All (Systemwide)	Code references are described in Section 2.3, Regulatory Requirements, of Appendix N.2, Visual and Aesthetics Technical Report.
124	Noise and Vibration	109 & 102, L4.2 Land Use Plans page 23	4.2.7.3 & 4.3.7.3, L4.2	Lindsay King	SDCI	References to local codes are missing. Therefore, the potential conflict with local controls and policies cannot be determined. 4.2.7.3 and 4.3.7.3 Environmental Impacts of the Build Alternatives during Operation does not assess potential conflicts with City of Seattle Noise Ordinance SMC 25.08 and Seattle Comprehensive Plan Environment Policy MPP-En-7.	All (Systemwide)	City of Seattle Municipal Code 25.08 is referenced in Section 4.7.1, Introduction to Resource and Regulatory Requirements as being used in conjunction with noise allowances from the Seattle Noise Ordinance for Construction activities. References to Seattle Municipal Code 25.08 and the potential conflicts in exterior sound limits that could arise between local controls and policies, including zoning and districting, have been addressed in more detail in Section 3.1.3, Construction Noise Criteria, in Appendix N.3, Noise and Vibration Technical Report. Also, refer to page 25 of Appendix L4.2, Land Use, for a discussion on project consistency local and regional plans and policies, including noise policies and Policy MPP-EN-7.
125	Noise and Vibration		3.1 & 4.1	Noise abatement	SDCI	The methodology does not capture complete impacts of the project. The DEIS utilizes FTA standards to establish impacts and the required mitigation for operational sound levels. That FTA standard is not utilized in the Seattle Municipal Code (SMC) nor in the Washington Administrative Code (WAC). Exterior sound level limits of SMC 25.08.410 and .420 must also be used to evaluate impacts of the project.	All (Systemwide)	The exterior sound level limits of Seattle Municipal Code 25.08.410 and Seattle Municipal Code 25.08.420 are discussed more extensively in Section 3.13, Construction Noise Criteria, Appendix N.3, Noise and Vibration Technical Report. The analysis was performed using the FTA criteria as required for FTA projects. This is the same criteria used for all other light rail systems in Seattle and other local jurisdictions. Sound Transit is continuing to coordinate with the City regarding the applicability of the noise analysis and findings.
126	Noise and Vibration		5.2	Noise abatement	SDCI	SDCI has concerns with several technical aspects of the sound level analysis that could underestimate the noise impacts along the track way. These concerns include: 1) The location of baseline measurements taken. 2) The duration and quantity of baseline measurements taken. 3) The assumed Sound Transmission Class (STC) of adjacent structures because of year of construction, needs to be validated for proper mitigation implementation. 4) The LDN noise metric utilized by the FTA analysis method does not correlate to Seattle Municipal Code (25.08) which uses a 1-hour LEQ metric for compliance. Another difference in the analysis methods is where the measurements are taken	All (Systemwide)	The analysis was performed using the FTA criteria as required for FTA funding. This is the same criteria used for all other light rail systems in Seattle and other local jurisdictions. Section 5.2.1, Measurement Methodology, and Section 5.2.2, Existing Noise Measurement Results, in Appendix N.3, Noise and Vibration Technical Report, include the locations of baseline measurements taken as well as the duration and quantity of those baseline noise measurements.
127	Noise and Vibration	121 (WS), 117 (Ballard), Noise and Vibration Technical Report Page 7-16	4.2.7.6 & 4.3.7.6	Lindsay King	SDCI	Mitigation measure(s) for identified construction noise impacts near sensitive land uses are missing from the DEIS. Update mitigation to include a contractor prepared Construction Management Plan to be reviewed and approved by the City of Seattle prior to commencing construction. See https://www.seattle.gov/Documents/Departments/SDOT/Services/Permits/TemplatesAndChecklists/ConstructionManagementPlanStandardElements.pdf for details.	All (Systemwide)	Noise-sensitive land uses and mitigation measures are discussed in Section 4.7.7, Mitigation Measures. A reference to using a contractor-prepared Noise Control and Mitigation Plan is included in Section 7.2, Construction Noise Mitigation, of Appendix N.3, Noise and Vibration Technical Report. Sound Transit will follow all appropriate procedures for the City of Seattle throughout the course of the Project. This level of detail will occur during the final design process after a Record of Decision (ROD) is issued.
128	Noise and Vibration		6.2.1	Noise abatement	SDCI	No information regarding cumulative noise impacts of simultaneous station construction and the potential combined noise impacts of rail construction occurring at the same time.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
129	Water Resources	126	4.2.8.	Eric Dripps	SDCI, Drainage	The map identifying Combined Sewer Basins appears to be showing the "CSO Basin" layer from City of Seattle GIS. This may be misleading when determining approved points of discharge for Drainage. There are significant other portions that only have Combined Sewers that are not mapped in the "CSO Basin" Layer. Also some of the CSO basins will have available Public Storm Drains. The layer is intended only to show where City-owned CSO's are located. All combined sewers go to the County Combined Sewer.	All (Systemwide)	Maps updated with revised data based on basins established for project drainage design. Text supporting maps has also been updated.
130	Water Resources	130	4.2.8.3	Eric Dripps	SDCI, Drainage	The document states that there is an MOU between Sound Transit and Ecology to determine if water quality treatment will be required for the guideways. This must be confirmed with Seattle Public Utilities if water quality treatment will be required for guideways discharging to designated receiving waters or basins thereof.	All (Systemwide)	Comment noted. Sound Transit will continue to coordinate with City of Seattle regarding water quality treatment requirements.
131	Water Resources	132 & 134	4.2.8.3.1 & 4.2.8.3.5	Eric Dripps	SDCI, Drainage	There is an ECA Peat Settlement area at Alaska and California Ave SW in proximity to the Alaska Junction Station. Groundwater collection is not permitted in these ECA's unless it can be demonstrated that it will not impact adjacent properties (SMC 25.09.110).	West Seattle (DUW, DEL, WSJ)	Comment noted. Peat settlement areas are discussed in Section 4.11, Geology and Soils, of the Final EIS.
132	Water Resources	131	4.2.8-7	Eric Dripps	SDCI, Drainage	City code requires that all new plus replaced hard surface meet Stormwater requirements for treatment, flow control, Onsite Stormwater Management. The language "where required" is ambiguous- all new and replaced surfaces will be required to meet requirements (SMC 22.805).	All (Systemwide)	New and replaced impervious surfaces could occur in public right of way or private property. These statements apply to both, therefore "as required" is appropriate.
133	Water Resources	130	4.2.8-6	Eric Dripps	SDCI, Drainage	Last paragraph- SDCI is not aware of any combined sewers that will be exempt from flow control if a given site is 5,000 SF or more of new plus replaced hard surface. All combined sewer systems require flow control regardless of analyzed capacity if the threshold is exceeded (SMC 22.805.05.C).	All (Systemwide)	Comment noted. Flow control will be provided for all stormwater runoff associated with the West Seattle Link Extension Project.

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134	Water Resources	132	4.2.8.3.1	Eric Dripps	SDCI, Drainage	Groundwater Discharge - General Comment - See SMC 22.805.050.C.7 which details requirements for flow control based on Groundwater discharge. Flow Control may be triggered in areas where it is not otherwise required (e.g. storm basin to receiving water no creek basin) if the permanent groundwater discharge exceeds thresholds. Also see Volume 1 Section 4.4.3.7. in the Stormwater Manual	All (Systemwide)	Text has been added to discussions of the Delridge and West Seattle Junction segments regarding groundwater collection and discharge. Sound Transit will coordinate with the City and other relevant permitting agencies as required during final design.
135	Water Resources	134	4.2.8.4.1	Eric Dripps	SDCI, Drainage	The construction below water table information notes that if groundwater meets City and King County pollutant criteria it would discharge to the separated system. For clarity, Department of Ecology determines pollutant levels and treatment to the storm system if there is potential for contaminated discharge. King County determines pollutant levels to the Combined Sewer system. City of Seattle ensures these approvals are obtained and approves the discharge rates to any City owned system.	All (Systemwide)	Construction stormwater would not be discharged to City storm drain systems. Text revised to remove reference to City criteria and City drainage system.
136	L4.8 Water Resources	158	Figure 3-3	Eric Dripps	SDCI, Drainage	All of the basins highlighted as Combined are in the separated or partially separated system. This area is also considered a Creek Basin and not to receiving water bodies. Although the basin does discharge to the Duwamish, Fauntleroy creek is a tributary to the basin and thus the entire basin is a "Non-Listed Creek Basin" requiring flow control when thresholds are exceeded. Areas outside of the hatched areas are in general the Combined Sewer Basins. See prior related to basin mapping.	West Seattle (DUW, DEL, WSJ)	Maps updated with revised data based on basins established for project drainage design. Text supporting maps has also been updated.
137	L4.8 Water Resources	163	Figure 3-7	Eric Dripps	SDCI, Drainage	For the South Lake Union Station there is an available Storm System that discharges to Lake Union. This likely will be the approved point of discharge for these stations. This will need to be confirmed with Seattle Public Utilities.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
138	Water Resources	127	4.3.8.3.1.	Eric Dripps	SDCI, Drainage	Tunnel groundwater discharge rates and locations will need to be coordinated with Seattle Public Utilities. Permanent groundwater discharge below the groundwater table may require Submetering and billing. Groundwater to the Combined Sewer may be subject to flow control. This may be able to be accomplished by oversizing a surface water flow control system to account for the groundwater flow. Flow Control may also be required for Public Storm discharge. Permanent treatment systems for groundwater discharge to the Public Storm Main (Designated receiving water) will require approval from Department of Ecology.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
139	Water Resources	127	4.3.8.3.1	Eric Dripps	SDCI, Drainage	Note that permanent groundwater discharge to combined sewers below the groundwater table requires a sewer submeter and billing for the discharge. If this applies to a site this could be a significant ongoing charge to Sound Transit. Sewer submeter charges are administered by Seattle Public Utilities.	All (Systemwide)	Comment noted. Sound Transit will coordinate with the City and other relevant permitting agencies as required during final design.
140	L4.8 Water Resources	44562	1.1	Joel Lehn	SDCI	In addition to the reference to Executive Order 11988, Executive Order 13690 should also be referenced as applicable to federally funded projects anticipating the effects of climate change.	West Seattle (DUW, DEL, WSJ)	Text added to Section 1.1 of Appendix L4.8, Water Resources.
141	Water Resources	4.2.8-8		Ben Perkowski	SDCI	Discussion/analysis for the Duwamish segment should include potential impacts to water quality (e.g., pH) of in-water structures due to materials chosen and potential for disintegration/leaching over time (e.g., steel vs. concrete).	West Seattle (DUW, DEL, WSJ)	Please see Attachment N.4F, Best Management Practices for Ecosystems Resources, of Appendix N.4, Ecosystems Technical Report, of the Final EIS for discussion of best management practices that Sound Transit would follow if an alternative with in-water columns were selected as the project to be built.
142	Water Resources	4.3.8-8		Ben Perkowski	SDCI	Discussion/analysis for Ballard segment should include potential impacts to water quality (e.g., pH, toxicity) of in-water structures due to materials chosen and potential for disintegration/leaching over time (e.g., steel vs. type of concrete; sealants used, etc.).	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
143	Water Resources	4.2.8-8	4.2.8.3.3	Rob McIntosh	SDCI	Complete stabilization of the developed areas is required by the Environmentally Critical Areas code (SMC 25.09) but stabilization of areas outside of the development is not required. This section appears to imply that drainage measures will be constructed upslope of cuts and walls along the elevated guideways to control groundwater. Drainage measures are typically used at or near the base of cuts and walls to passively collect groundwater flow. Groundwater control upslope of the minimal intrusion allowed by the ECA code (in ECA Steep Slope Areas and their buffers) will not be allowed.	West Seattle (DUW, DEL, WSJ)	Comment noted. Please see Section 4.11, Geology and Soils, of the Final EIS for discussion of slope stabilization and Environmentally Critical Area areas.
144	Water Resources	4.2.8-10	4.2.8.4.1	Rob McIntosh	SDCI	It is unclear why dewatering for construction of tunnels and underground stations will be only a temporary impact. Will those structures be waterproofed and designed for full hydrostatic conditions? If so, then the impact is temporary. If not, the impact is permanent.	West Seattle (DUW, DEL, WSJ)	Dewatering during construction is a temporary impact because it is temporary in nature and ends when construction ends. Long-term (permanent) impacts are discussed under operational impacts. The tunnel would be waterproofed and designed for hydrostatic conditions.
145	Water Resources	4.2.8-12	4.2.8.4.5	Rob McIntosh	SDCI	This section indicates that all tunnels will be tightly waterproofed, but all tunnels in the West Seattle Junction Segment would have a drainpipe to convey groundwater that may seep into the tunnel. It estimates 0.2 gallons per minute of seepage per 250 feet of tunnel. This would be a permanent impact.	West Seattle (DUW, DEL, WSJ)	This text has been moved under operational impacts.
146	Water Resources	4.3.8-7	4.3.8.3.1	Rob McIntosh	SDCI	This section indicates that all tunnels would be tightly waterproofed, but all tunnel alternatives would have a drainpipe to convey groundwater that may seep into the tunnel. It estimates 0.2 gallons per minute of seepage per 250 feet of tunnel. This would be a permanent impact.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
147	Water Resources	4.3.8-7	4.3.8.3.5	Rob McIntosh	SDCI	Regarding the subsurface drainage system, please include a statement in this section indicating that the subsurface drainage system would be installed using directional drilling and will not disturb the surface of the Environmentally Critical Areas (ECA) Steep Slope.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
148	Water Resources	4.3.8-8	4.3.8.3.5	Rob McIntosh	SDCI	Please revise the sentence "This would control seepage, providing slope stability adjacent to the improvements." to read "This would control seepage and help to provide complete stabilization for the adjacent development, as required by the ECA code (SMC 25.09)."	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
149	Water Resources	4.3.8-11 & 4.2.8-12	4.3.8.6 & 4.2.8.6	Lindsay King	SDCI	Update mitigation measures to state- Operation and construction of the project would comply with federal, state, regional and local regulations related to water.	All (Systemwide)	A statement regarding compliance with relevant regulations and guidance is provided in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS for all resources. Compliance with regulations is not mitigation.
150	Ecosystems	4.2.9-9	4.2.9.3.3	Ben Perkowski	SDCI	In-water structures do not only impact the benthic substrate (e.g., footprint) but also displace/remove aquatic/salmonid habitat due to volume of structure in water column. This should be addressed in analysis of impacts and mitigation strategies.	West Seattle (DUW, DEL, WSJ)	New text added to Section 4.2.2 of Appendix N.4, Ecosystems Technical Report, to address in-water as well as benthic impacts. Section 4.9, Ecosystems, of the Final EIS, is a summary of the findings in the technical report.

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151	Ecosystems	4.2.9-10	4.2.9.3.3	Ben Perkowski	SDCI	Analysis of potential impacts of in-water structures and shade impacts of overwater structures should be more robust. Include best available science of impacts to salmonids and predator-prey relationships for these structure types and include a light study based on location and height of bridge crossing. In-water structures in shallow areas may have substantial impacts to migrating salmonids due to predation risk and predator habitat enhancement, which should be analyzed.	West Seattle (DUW, DEL, WSJ)	Additional paragraphs added to Section 4.2 of Appendix N.4, Ecosystems Technical Report, regarding these issues.
152	Ecosystems	4.2.9-13	4.2.9.4.3	Ben Perkowski	SDCI	Temporary In-water structures do not only impact the benthic substrate (e.g., footprint) but also displace/remove aquatic/salmonid habitat and could negatively impact predation risk to salmonids, which is not addressed. Over-water structures and barges also can negatively impact salmonids due to increased predation risk, which should be addressed in analysis of impacts and mitigation strategies during construction.	West Seattle (DUW, DEL, WSJ)	Additional paragraphs added to Section 4.2 of Appendix N.4, Ecosystems Technical Report, regarding these issues.
153	Ecosystems	4.2.9-18	4.2.9.6.2	Ben Perkowski	SDCI	A mitigation option that is not mentioned includes permanent removal of in-water or over-water structures, bulkheads, and man-made debris in substrate of Duwamish or intertidal areas.	West Seattle (DUW, DEL, WSJ)	Removal of over-water structures is listed as potential mitigation in Appendix N.4, Ecosystems Technical Report. Other suggestions could be considered during permitting, depending on the nature of impacts being permitted.
154	Ecosystems	4.3.9-8	4.3.9.3.4	Ben Perkowski	SDCI	In-water structures do not only impact the benthic substrate (e.g., footprint) but also displace/remove aquatic/salmonid habitat due to volume of structure in water column. This should be addressed in analysis and accounting of impacts and mitigation strategies.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
155	Ecosystems	4.3.9-9	4.3.9.3.4	Ben Perkowski	SDCI	Analysis of potential impacts of in-water structures and shade impacts of overwater structures should be more robust. Include best available science of impacts to salmonids and predator-prey relationships for these structure types and include a light study based on location and height of bridge crossing. In-water structures in shallow areas may have substantial impacts to migrating salmonids due to predation risk and predator habitat enhancement, which should be analyzed.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
156	Ecosystems	4.3.9-11,12	4.3.9.4.4	Ben Perkowski	SDCI	Temporary in-water structures do not only impact the benthic substrate (e.g., footprint) but also displace/remove aquatic/salmonid habitat and could negatively impact predation risk to salmonids. Over-water structures and barges also can negatively impact salmonids due to increased predation risk, which should be addressed in analysis of impacts and mitigation strategies during construction.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
157	Ecosystems	4.3.9-13	4.3.9.6.2	Ben Perkowski	SDCI	Due to the negative impacts of overwater structures and in-water structures (i.e., bridge alternative) to the salmonids and other aquatic species utilizing the Ship Canal, the King County in-lieu fee program (or other mitigation locations outside Seattle) is very likely not to be a viable or appropriate option for compensatory mitigation due to City of Seattle Shoreline Code requirements (SMC 23.60A.158 and SMC 23.60A.159). Mitigation options to be considered include permanent removal of in-water and over-water structures, bulkheads, and submerged man-made debris in the Ship Canal/Salmon Bay area.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
158	Ecosystems	4.2.9-8	4.2.9.3.1	Christy Carr	SDCI	The long-term species (upland) viability analysis needs more detail. Does ST have a reference for the statement: Based on the urban environment of the study area, the operation of any alternatives has a low potential to affect the viability of local wildlife populations.	West Seattle (DUW, DEL, WSJ)	Information has been added to Appendix N.4, Ecosystems Technical Report, of the Final EIS on the urbanized nature of most of the alignment, as well as a section on land cover type maps, showing that the bulk of the area is high intensity urban and thus limits wildlife presence and their habituation to current noises and activities.
159	Ecosystems	4.2.9-8	4.2.9.3.1	Christy Carr	SDCI	While ambient noise is high in the project area, does ST have a reference for the statement- Therefore, the potential is low for disturbance from increased human access, noise, and light.	West Seattle (DUW, DEL, WSJ)	Appendix N.4, Ecosystems Technical Report, contains additional detail about ambient noise, which would reduce the effect of the project noise on the heron colony. Information has been added to Appendix N.4 stating what would be considered an impact. A statement has been added to Section 4.9, Ecosystems of the Final EIS, noting the limited increase in noise described in Section 4.7, Noise and Vibration.
160	Ecosystems	4.2.9-14	4.2.9.4.3	Christy Carr	SDCI	The analysis is incomplete. How are noise impacts on terrestrial wildlife being addressed?	All (Systemwide)	Appendix N.4, Ecosystems Technical Report, contains additional detail about ambient noise as it would reduce the effect of the project on the heron colony. Information has been added stating what would be considered an impact. A statement has also been added to Section 4.9, Ecosystems, of the Final EIS, noting the limited increase in noise described in Section 4.7, Noise and Vibration.
161	Ecosystems	4.2.9-14	4.2.9.4.3	Christy Carr	SDCI	The analysis is not clear on the extent of tree/vegetation removal within the biodiversity area: Vegetation would be cleared within the construction footprint near known great blue heron nest trees. In addition, hazard trees would be removed in and adjacent to the construction zone. The amount of greenbelt impact would vary depending on the design option or the specific connection to the Delridge Segment, but all would require some tree removal within the great blue heron management area.	West Seattle (DUW, DEL, WSJ)	More detailed information is available in Section 4.2.4.1 in Appendix N.4 regarding trees removed adjacent to the heron colony and how the project will meet Washington Department of Fish and Wildlife and City requirements for protecting the colony. A callout in Section 4.2.3.1 has been corrected within Appendix N.4 to help locate this information within the document. Specific tree removal information will be determined once tree surveys for the project have been completed.
162	Ecosystems	4.2.9-15	4.2.9.5	Christy Carr	SDCI	Can more detail be provided for the conclusion that wetland hydrology will not be impacted? Elevated guideways would add impervious surfaces that have the potential to change hydrology at Longfellow Creek and the associated wetlands, and at the wetland at the north end of the West Duwamish Greenbelt. The guideways have the potential to intercept and reroute water flow. However, the Longfellow Creek wetlands receive most of their water from the creek itself and are not expected to experience any hydrology or water quality changes from the new guideway.	West Seattle (DUW, DEL, WSJ)	Section 4.9.6 of the Final EIS has been revised to better describe why the Longfellow Creek hydrology will not be affected, and a reference to Section 4.8, Water Resources, has been added to better describe how groundwater to the West Duwamish Greenbelt wetland could be affected.
163	Ecosystems	4.2.9-16	4.2.9.6.1	Christy Carr	SDCI	Avoidance of construction staging placed in buffers and forested areas should be considered, not just minimization.	West Seattle (DUW, DEL, WSJ)	Appendix N.4, Ecosystems Technical Report, contains additional detail for Preferred Option DUW-1a stating that currently paved areas will be prioritized for staging. Section 4.9, Ecosystems, of the Final EIS is a summary of the findings in the technical report.

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164	Ecosystems	4.2.9-16	4.2.9.6.1	Christy Carr	SDCI	Avoidance and minimization measures should include WDFW management recommendations and City standards in SMC 25.09.200 for great blue heron habitat.	West Seattle (DUW, DEL, WSJ)	Section 5.3, Upland Vegetation and Wildlife Resources, in Appendix N.4 provides additional detail about the heron colony and discusses coordination that would be needed with Washington Department of Fish and Wildlife and City of Seattle.
165	Ecosystems	4.2.9-17	4.2.9.6.1	Christy Carr	SDCI	Not clear why it says "since this species is protected by the state," -- great blue heron are also protected by local City regulations.	West Seattle (DUW, DEL, WSJ)	Text has been updated in Section 4.9, Ecosystems, of the Final EIS and in Section 5.3.1, Avoidance and Minimization, in Appendix N.4 to clarify that Washington Department of Fish and Wildlife has recommendations, and that these specific metrics are required by the City.
166	Ecosystems	4.2.9-16&17	4.2.9.6.2	Christy Carr	SDCI	The Compensatory Mitigation sections do not address City of Seattle Environmentally Critical Areas mitigation sequencing priority (SMC 25.09.065.B.3). This includes the preference for mitigation location. In-project area mitigation sites should be considered before off-site and/or in-lieu fee mitigation measures. Table B for SMC 25.09.160 should be referenced regarding mitigation measures for wetlands. Has Sound Transit contacted Seattle agencies/departments, including Parks and Seattle Public Utilities, about potential local mitigation sites?	West Seattle (DUW, DEL, WSJ)	Mitigation sequencing of the City and U.S. Army Corps of Engineers conflicts in the order in which options are considered. Sound Transit has coordinated extensively with multiple City of Seattle departments regarding impacts to wetlands and riparian corridors and mitigation for these impacts.
167	Technical Report: Ecosystem Resources	1.8	1.3.2	Christy Carr	SDCI	Have any other Seattle agencies/departments provided data to inform the analysis?	All (Systemwide)	See Section 1.3.1 of Appendix N.4, Ecosystems Technical Report, for agency and public contacts that were made for this analysis.
168	Technical Report: Ecosystem Resources	3-9	3.1.2	Christy Carr	SDCI	WSE4 function is 4 (low).	West Seattle (DUW, DEL, WSJ)	The wetland function score has been updated.
169	Technical Report: Ecosystem Resources	3-12	3.1.2.2	Christy Carr	SDCI	Sound Transit will need to confirm that SMC 25.09.012.D.3.c does not apply - The parcel provides fish passage between fish habitat in Type S, F, Np and Ns waters per WAC 222-16-030 and 222-16-031 upstream and downstream of the parcel, whether that passage is in riparian watercourses, pipes, or culverts.	West Seattle (DUW, DEL, WSJ)	Edit has been made in Table 3-1 of Appendix N.4, Ecosystems Technical Report.
170	Technical Report: Ecosystem Resources	5-1	5.1.2	Christy Carr	SDCI	The Compensatory Mitigation sections do not address City of Seattle Environmentally Critical Areas mitigation sequencing priority (SMC 25.09.065.B.3). Also, it is not clear if these mitigation methods are for direct wetland impacts only and/or also for direct wetland buffer impacts.	West Seattle (DUW, DEL, WSJ)	Mitigation sequencing of the City and U.S. Army Corps of Engineers conflicts in the order in which options are considered. No change has been made at this time. Wetland buffer mention now added to EIS compensatory mitigation Section 4.9 of the Final EIS, and to Section 5.1.2 of Appendix N.4.
171	Technical Report: Ecosystem Resources			Christy Carr	SDCI	Is there a figure that shows where the data points are located and where project area was physically accessed for wetland delineation?	All (Systemwide)	Unclear what document is being referred to. Figures of access points are not required for wetland data forms.
172	Ecosystems		4.2.9, 4.3.9	Christy Carr	SDCI	Global comment regarding trees and vegetation - All tree/vegetation removal within environmentally critical areas (ECAs) is regulated by SMC 25.09.070, Standards for tree and vegetation and impervious surface management. This includes trees less than 6" dbh and non-exceptional trees. Tree and vegetation removal in Environmentally Critical Areas must be mitigated based on ecological function of trees/vegetation (SMC 25.09.070).	All (Systemwide)	Section 4.9 of the Final EIS has been revised to be more specific and inclusive of all tree diameters and types. No net loss of ecological function will be fully addressed in tree and critical area permitting with the City.
173	Ecosystems	4.2.9-8-11, 4.2.9-12-14	4.2.9.3, 4.2.9.4	Christy Carr	SDCI	Impact statements related to wetlands and wetland buffers should be qualified in terms of function and magnitude. No net loss of ecological functions -- one of ST's stated policy goals for mitigation -- cannot be determined without more information about impacts. Proposed mitigation measures must be tied to specific loss/reduction of ecological functions, not just area (size)- (SMC 25.09.065).	All (Systemwide)	Noted. These details will be fully addressed during wetland permitting with the City and U.S. Army Corps of Engineers.
174	Ecosystems	1.2.9-16	4.2.9.6	Christy Carr	SDCI	SMC 25.09.160 Table B should be referenced and addressed regarding direct and indirect impacts to wetlands.	West Seattle (DUW, DEL, WSJ)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
175	Technical Report: Ecosystem Resources			Christy Carr	SDCI	SDCI has not verified wetland location. Any mapping discrepancies between DEIS figures and SDCI GIS will need to be addressed. SDCI Director's Rule 19-2006 states that wetland assessments are valid for a period of three (3) years. Updated wetland information will be required at time of permit submittal.	All (Systemwide)	Noted. These details will be fully addressed during wetland permitting with the City and U.S. Army Corps of Engineers.
176	Ecosystems	4.3.9-7	4.3.9.3.3	Christy Carr	SDCI	The statement below is considered an impact to wetlands. Is this impact (size/area) included in the summary table of wetland impacts? Slope drains installed along the Southwest Queen Anne Greenbelt could reduce the flow of water to the greenbelt's wetlands, which may in turn reduce the size or characteristics of these wetlands.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
177	Ecosystems	4.3.9-7	4.3.9.3.3	Christy Carr	SDCI	The Southwest Queen Anne Greenbelt is regulated by Seattle's Environmentally Critical Areas (ECA) code per SMC 25.09.012. Impacts to the applicable ECAs and associated regulations should be addressed, including those in SMC 25.09.200.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
178	Ecosystems	4.3.9-10	4.3.9.4.3	Christy Carr	SDCI	Adequacy of proposed mitigation measures cannot be determined because there is insufficient detail regarding impacts to ecological function and value. Mitigation needs to be tied to the loss of and/or impact to specific functions (SMC 25.09.065). Construction of Alternative SIB-3 would impact two of the greenbelt's wetlands and the Interbay Golf Center wetland at the south end and would have construction impacts to the buffers of these wetlands. There would also be impacts to an additional wetland buffer south of the golf center.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
179	Ecosystems	4.3.9-10	4.3.9.4.3	Christy Carr	SDCI	The long-term species viability analysis is needs more detail. Does ST have a reference for the statement- These effects on wildlife are expected to be minimal, as wildlife in the greenbelt is already habituated to noise and migration barriers are already present.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
180	Ecosystems	4.3.9-13	4.3.9.6.2	Christy Carr	SDCI	Seattle Environmentally Critical Areas code mitigation sequencing requirements should be referenced (SMC 25.09.065). This includes the preference for mitigation location. In-project area mitigation sites should be considered before off-site and/or in-lieu fee mitigation measures. Table B for SMC 25.09.160 should be referenced regarding mitigation measures for wetlands.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
181	Ecosystems	4.3.9-13	4.3.9.6.1	Christy Carr	SDCI	Avoidance of construction staging in wetland buffers should be considered, not just minimization.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
182	Ecosystems	4.3.9-13	4.3.9.6.2	Christy Carr	SDCI	Avoidance and minimization measures should include WDFW management recommendations and City Environmentally Critical Areas Ordinance and/or Director's Rule.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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183	Ecosystems	4.3.9-6	4.3.9.3.1	Christy Carr	SDCI	It is not clear how the following identified impacts will be mitigated: Although the potential for adverse effects would be low, operations could impact vegetation and wildlife over the long term. For example, maintenance activities that involve the removal of vegetation during the breeding season could require removal of nests, eggs, or birds protected under the Migratory Bird Treaty Act. At-grade guideways would reduce the amount of habitat for small mammal species.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
184	Ecosystems	4.3.9-6	4.3.9.3.1	Christy Carr	SDCI	Does ST have a reference/citation to support this statement- wildlife that use habitats adjacent to the light rail alternatives are likely accustomed to noise and human activity. Therefore, the potential is low for disturbance from increased human access, noise, and light. Some species may move farther into greenbelt habitat to avoid the immediate area of the light rail, but these minor localized movements would not affect these species' viability. No information is provided regarding change/increase in noise or degree of alteration of habitat.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
185	Ecosystems	4.2.9-16 & 4.3.9-12	4.2.9.6 & 4.3.9.6	Lindsay King	SDCI	Update mitigation measures to state- Operation and construction of the project would comply with federal, state, and local regulations related to ecosystems.	All (Systemwide)	Statement added to the mitigation measures in Section 4.9, Ecosystems, of the Final EIS.
186	Technical Report: Ecosystem Resources		1.4.3	Lindsay King	SDCI	References to local codes are missing. Include Title 15 and Streets Illustrated for street tree removal and mitigation requirements. Title 23 Land Use Code for general permitting requirements.	All (Systemwide)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with city code.
187	Energy Impacts	4.3.10-2 and	4.3.10.3 and 4.2.10.3	Duane Jonlin	SDCI	Environmental Impacts of the Build Alternative during Operation analysis is incomplete. Impacts related to the energy required to run the deep elevators and escalators, and the commuter time spent on them, for long term operation.	All (Systemwide)	The energy for elevators and escalators is accounted for in operations and maintenance costs, and the difference is not great enough to show in the scenarios provided. No change. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
188	Geology and Soils	4.2.11-2	4.2.11.1.3	Rob McIntosh	SDCI	The last sentence in the "Steep Slopes and Landslide-Prone Areas" section states "There are no slopes greater than 40 percent in the study area between Pigeon Point and SODO." That is not correct. See Figure L4.11-10. That sentence should be omitted or replaced to indicate that there are some mapped, small, isolated areas of Steep Slope between Pigeon Point and East Marginal Way South.	West Seattle (DUW, DEL, WSJ)	Text updated as requested.
189	Geology and Soils	4.2.11-3	4.2.11.1.3	Rob McIntosh	SDCI	The last sentence in the "Peat Settlement-Prone Areas" section indicates that peat soils were not observed in geotechnical borings drilled for the project in the mapped ECA Peat Settlement-prone Area near the Alaska Junction. Please note that the City of Seattle mapped ECA Peat Settlement-prone Areas are not advisory (SMC 25.09.030A4). Consequently, the ECA Peat Settlement-prone Area regulations remain applicable whether or not peat is observed in subsurface explorations.	West Seattle (DUW, DEL, WSJ)	Noted. Text is just reporting what has been found. Sound Transit recognizes that Environmentally Critical Areas still apply.
190	Geology and Soils	4.2.11-3	4.2.11.1.3	Rob McIntosh	SDCI	Please remove the sentence in Seismic Hazard Areas section that states "No evidence of fault movement was observed in the available soil boring exploration logs." The interpretation of small diameter soil boring logs does not provide sufficient information to determine if fault movement has, or has not, occurred.	West Seattle (DUW, DEL, WSJ)	No change. The statement is accurate as stated and it not meant to be definitive about whether fault movement has ever occurred.
191	Geology and Soils	4.2.11-4	4.2.11.3.1	Rob McIntosh	SDCI	The following statement is made in the "Slope Stability, Retaining Structures, and Landslides" section: "The extent of steep slopes in the study area is limited, and the slope ground conditions are generally stable in most areas along the Build Alternatives alignments. Land clearing in steep slope areas could increase soil erosion, but Sound Transit would implement erosion-control management practices to reduce hazards and keep the overall risk low." This needs to be fixed to indicate that areas disturbed in Landslide-prone Areas must be completely stabilized against slope instability and erosion for all areas of disturbance in those areas. Landslide-prone Areas include ECA Steep Slopes, ECA Potential Slide Areas Due to Geologic Conditions, and ECA Known Landslides. The language in this section minimizes the existence of significant areas of landslide-prone areas in the Pigeon Point area and some areas west of Pigeon Point along the alignment.	West Seattle (DUW, DEL, WSJ)	Issue is adequately covered with existing text. No change.
192	Geology and Soils	4.2.11-5	4.2.11.3.3	Rob McIntosh	SDCI	Alternatives DUW-1a and DUW-1b will include construction in the Environmentally Critical Area (ECA) Steep Slopes and buffers at Pigeon Point. Alternatives located in ECAs must be completed with minimal disturbance to the ECA and provide complete stabilization for all areas of disturbance to the ECA Steep Slope Areas and buffers during construction and for the completed construction. Catchment walls might be required to protect the facility from landslides emanating from the upslope ECA Steep Slope Areas. That hillside has numerous reported shallow landslides that have occurred due to the steep slopes and problematic geology. The Preferred Alternative (DUW-1a) appears to require less disturbance of ECA Steep Slopes than DUW1b.	West Seattle (DUW, DEL, WSJ)	Noted, no change requested.
193	Geology and Soils	4.2.11-5	4.2.11.3.3	Rob McIntosh	SDCI	The second sentence in the second paragraph states "In combination with shallow groundwater, if encountered, steep slopes along Pigeon Point could be susceptible to slope instability." Please correct this sentence to indicate that the Pigeon Point slopes are designated as ECA Steep Slopes, ECA Potential Landslide Areas Due to Geologic Conditions, and ECA Known Landslides. It should also indicate the requirement that complete stabilization of the allowed areas of disturbance against slope instability and erosion is required during construction and for the completed facility.	West Seattle (DUW, DEL, WSJ)	The affected environment text already discloses these are Environmentally Critical Areas. This section is referring to impacts and already states that stabilization would be required. No change.
194	Geology and Soils	4.2.11-6	4.2.11.3.4	Rob McIntosh	SDCI	Please change the second sentence of the first paragraph to read "Alternatives DEL-3 and DEL-4* would have station access elements on the east side of Delridge Way, and require complete stabilization measures on a steep slope with known slides, for temporary and permanent conditions."	West Seattle (DUW, DEL, WSJ)	This section is about operations, not construction. No change made because temporary conditions are discussed under construction impacts section.
195	Geology and Soils	4.2.11-6	4.2.11.3.5	Rob McIntosh	SDCI	There is an ECA Peat Settlement-prone Area immediately to the west of the Tunnel 42nd Avenue Station Option (WSJ-3a). The first sentence of this section states that all West Seattle Junction Segment alternatives would avoid geologic hazard areas. Please confirm this or correct this section accordingly.	West Seattle (DUW, DEL, WSJ)	Text updated as requested.
196	Geology and Soils	4.2.11-6	4.2.11.4.1	Rob McIntosh	SDCI	This section needs to be re-written to clearly indicate that complete stabilization is required during construction and for the completed project. Complete stabilization would be designed, and specifications prepared, to avoid creating unstable conditions that could cause landslides.	West Seattle (DUW, DEL, WSJ)	Issue is adequately covered with existing text. No change.
197	Geology and Soils	4.3.11-4	4.3.11.3.1	Rob McIntosh	SDCI	Please revise to include the notable exception of the Alternatives that would intrude into, or abut, Kinnear Park and/or the Southwest Queen Anne Greenbelt areas, which are highly unstable.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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198	Geology and Soils	4.3.11-4	4.3.11.3.1	Rob McIntosh	SDCI	Revise the sentence "Land clearing in steep slope areas could increase soil erosion, but Sound Transit would implement erosion-control management practices to reduce hazards and keep the overall risk low." to state "All areas of ground development, including land clearing, are required to be completely stabilized per the ECA code (SMC 25.09). Land clearing in steep slope areas could increase slope instability and soil erosion, but Sound Transit would implement erosion-control management practices to provide complete stabilization relative to erosion control."	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
199	Geology and Soils	4.3.11-4	4.3.11.3.1	Rob McIntosh	SDCI	Please revise the last two sentences in the Section "Slope Stability, Retaining Structures, and Landslides" to indicate that relative to slope stability, Sound Transit would use measures such as slope stabilization with permanent retaining walls with catchment to provide complete stabilization of the development and to provide protection of the development from surficial landslides where the Alternatives about Kinnear Park or the Southwest Queen Anne Greenbelt.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
200	Geology and Soils	4.3.11-4	4.3.11.3.1	Rob McIntosh	SDCI	The last sentence in the Section "Slope Stability, Retaining Structures, and Landslides" should indicate that some structures could require permanent drilled shafts, piles, soil anchors and/or tiebacks to provide complete stabilization from seismically-induced deep-seated landslides that would extend upslope of the developed areas.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
201	Geology and Soils	4.3.11-4	4.3.11.3.1	Rob McIntosh	SDCI	Regarding the "Seismic Hazard" section, pile foundations are often used in liquefaction-prone areas. Are they being considered? If so, please include a reference in the text. Ground improvement analysis, design, and construction does not work well for silty or clayey soils and piles are often used in that scenario.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
202	Geology and Soils	4.3.11-6	4.3.11.3.3	Rob McIntosh	SDCI	The last sentence in this section indicates that peat soils were not observed in geotechnical borings drilled for the project in the mapped ECA Peat Settlement-prone Area. Please note that the City of Seattle mapped ECA Peat Settlement-prone Areas are not advisory (SMC 25.09.030A4). Consequently, the ECA Peat Settlement-prone Area regulations remain applicable whether or not peat is observed in subsurface explorations.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
203	Geology and Soils	4.3.11-6	4.3.11.3.4	Rob McIntosh	SDCI	There is the potential for encountering glacially consolidated silts and clays, that are fractured and slickensided, and can result in excessive shoring deflection for deep excavations. It might be helpful to include this information in Section 4.3.11.3.4.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
204	Geology and Soils	4.3.11-6	4.3.11.3.5	Rob McIntosh	SDCI	The tunnel portal for Alternatives SIB-1, along with Alternatives SIB-2 and SIB-3, would require considerable efforts to provide complete stabilization for the ECA Steep Slope Area and to protect the facility from landslides emanating from the ECA Steep Slope Area for the retained cut and to protect the tunnel portal from landslide damage. That hillside has numerous reported landslides that have occurred (both shallow and deep-seated) due to the steep slopes and problematic geology. An attempt to mitigate damage from a deep landslide at Galer Street required substantial grading, dewatering, and a permanent soldier pile anchored wall to provide some stability. It was not designed to the level of complete stabilization that is required for the temporary and permanent stage of the new development. Complete stabilization for retained cuts might not be technically, or financially, feasible for this alternative. Please revise this section accordingly.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
205	Geology and Soils	4.3.11-7	4.3.11.4.1	Rob McIntosh	SDCI	Please revise this section to clearly indicate that complete stabilization is required during construction and for the completed project where disturbance is allowed in ECA Steep Slope Areas, ECA Known Landslide Areas, and ECA Potential Landslide Areas Due to Geologic Conditions. It is not sufficient to "minimize slope stability hazards".	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
206	Geology and Soils	4.3.11-8	4.3.11.4.4	Rob McIntosh	SDCI	Cut-and-cover stations for the Downtown segment are likely to encounter numerous remnant tieback anchors from previous (and ongoing?) construction projects. The anchors were required to be de-stressed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
207	Geology and Soils	166 (WS) & 159 (Ballard)	4.2.11.6 & 4.3.11.6	Lindsay King	SDCI	References to local codes citing minimum mitigation requirements is missing. Operation and construction of the project would comply with local regulations at the time of permitting. Complete stabilization will be required during construction and operation.	All (Systemwide)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
208	L4.11 Geology and Soils	L4.11-1		Lindsay King	SDCI	References to local codes are missing. Update the technical appendix to list local regulations that apply at the time of permitting: SMC 25.09 Environmentally Critical Areas Ordinance, Grading Code SMC 22.170, and the Seattle Building Code.	All (Systemwide)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
209	Appendix J - Conceptual Design Drawings			Rob McIntosh	SDCI	The Smith Cove Station site would likely require considerable efforts to provide complete stabilization for the ECA Steep Slope Area and to protect the facility from landslides emanating from the ECA Steep Slope Area. That hillside has numerous reported landslides that have occurred (both shallow and deep-seated) due to the steep slopes and problematic geology. The requirement for complete stabilization will be extremely problematic to accomplish at this site. Update the conceptual drawings to demonstrate the area of impact with anticipated site stabilization measures shown.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
210	Public Services, Safety and Security	4.2.14-7 & 4.3.14-10	4.2.14.3.1 & 14.3.14.3.1	Lindsay King	SDCI	Paragraph 3: Please include Seattle Building Code in the list of standards that will need to be met for all alternatives.	All (Systemwide)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
211	Historic and Archaeological Resources	4.2.16-23 & 4.3.16-48	4.2.16.5 & 4.3.16.5	Jerry Suder	SDCI	An inadvertent discovery plan should include additional measures to have archaeologist and/or cultural expert on site during ground disturbance where and when advised by State Historic Preservation Officer and Tribes.	All (Systemwide)	Yes, the inadvertent discovery plan will include this information, and will be developed in consultation with State Historic Preservation Officer and Tribes.
212	Historic and Archaeological Resources	4.2.16-23 & 4.3.16-48	4.2.16.5 & 4.3.16.5	Lindsay King	SDCI	References to local codes citing minimum mitigation requirements is missing. Operation and construction of the project would comply with national, state and local regulations at the time of permitting.	All (Systemwide)	Local codes (and general description of associated requirements) are noted in Section 4.16.1, Introduction to Resource and Regulatory Requirements, and are also described in Section 2.3 of Appendix N.5, Historic and Archaeological Resources Technical Report. Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
213	Technical Report: Historic and Archaeological Resources		2.3, 11.2	Jerry Suder	SDCI	City of Seattle regulations require a Certificate of Approval for demolition of a City of Seattle Landmark or new construction in a historic district (SMC 25.12 & 23.66). Projects across the street or adjacent to any City landmark require consultation with Seattle Department of Neighborhoods for site-specific impact mitigation.	All (Systemwide)	Per comment, text regarding City of Seattle Designated Landmarks (and a weblink for the reader) has been updated in Section 2.3 of Appendix N.5, Historic and Archaeological Resources Technical Report, of the Final EIS.

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214	Technical Report: Historic and Archaeological Resources		2.3	Lindsay King	SDCI	Paragraph 1: buildings proposed for demolition are to be referred to Department of Neighborhoods to identify structures eligible to meet landmark status per SMC 25.12. To streamline the demolition permit process this analysis should occur as part of the FEIS.	All (Systemwide)	Sound Transit provided this list to the City through ongoing coordination efforts.
215	Technical Report: Historic and Archaeological Resources		Table N5-A	Jerry Suder	SDCI	The information necessary to identify impacts and compare alternatives is missing. The project lacks an analysis of how many structures, eligible for City of Seattle landmark status, will be demolished with each alternative. Coordination is required with the Department of Neighborhoods who maintains a partial list of structures eligible for local nomination.	All (Systemwide)	The commented-upon table is an inventory of properties that were surveyed. Impacts to historic resources are described in Section 10 in Appendix N.5, Historic and Archaeological Resources Technical Report.
216	Ch 3 Transportation	3-36.3-106.		Joel Hancock	SDOT	This should be truck and "commercial vehicle" load/unload zones		The Final EIS provides additional detail related to different types of load zones, and describes potential permanent or temporary loss of these zones. Load zone detail added to Appendix N.1, Transportation Technical Report, of the Final EIS.
217	Ch 3 Transportation	3-51	3.9.4	Joel Hancock	SDOT	Won't coordination with the Army Corp of Engineers also be required in mitigation?		Text has been updated in this section as well as Section 8, Navigation, of Appendix N.1, Transportation Technical Report, to add reference to coordinating with the Corps on mitigation.
218	Ch 3 Transportation	3-65.		Joel Hancock	SDOT	Per the following statement: "None of these alternatives are expected to affect public off-street parking during construction." could you add "directly" affect or clarify that off-street parking might have increase in parking due to temporary removal of on-street parking. Is this consistent with Section 3.11.6.3: "Sound Transit would work with owners and operators of garages where parking could be removed or where ingress or egress could be blocked during construction."		The potential increases in off-street parking utilization cannot be estimated, and it is expected that owners will manage their parking to meet individual needs.
219	Ch 3 Transportation	3-103.		Joel Hancock	SDOT	This statement unclear for locations: "Parking occupancy counts were not collected for station areas in the Downtown of Chinatown-International District segments."		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
220	Ch 3 Transportation	3-35./3-105.		Joel Hancock	SDOT	Footnotes in Table 3-11 and Table 3-26 are not consistent on whether there would be temporary or permanent off-street parking removal by alternative.		Table footnotes have been updated to clarify whether the impact is temporary or permanent.
221	Ch 3 Transportation	3-127.		Joel Hancock	SDOT	Should this also include coordination with Metro: "As the project progresses, Sound Transit would work with the City of Seattle to minimize streetcar impacts and, where needed, develop an operational plan to minimize impacts to streetcar service and riders."		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
222	Ecosystems	4.2.9-12/ 4.2.9-16		Shane DeWald	SDOT	Sound Transit impacts on existing trees in ROW under SDOT jurisdiction include impacts along corridors beyond the geographic footprint of the ST3 alignment. These include corridors planned for use as haul routes or detours during construction where existing street trees are likely to be subject to damage if not preemptively pruned in advance of the use by construction traffic (oversize truck /truck & trailer combinations) or by rerouted buses and other commercial vehicles. Preconstruction meeting(s) with SDOT Urban Forestry must be coordinated a minimum of 1 year in advance of project start dates to coordinate permitting for Registered Tree Service Providers on contract with Sound Transit to perform the tree work to meet standard clearances along affected ROW frontages and to ensure outreach is provided by Sound Transit to notify adjacent property owners of work to be done on street trees and/or to negotiate removal and replacement for street trees that are not in adequate condition to tolerate the extent of pruning necessary for public safety.		Noted. Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, and Section 4.8, Ecosystems, of the Final EIS addresses consistency with tree preservation requirements. Additional information about tree ordinance has been added to Appendix N.4, Ecosystems Technical Report.
223	Ecosystems	4.2.9-16		Shane DeWald	SDOT	Trees approved by Urban Forestry to be removed from SDOT ROW for the ST3 project must be mitigated according to meet current 2 for 1 City of Seattle standards per executive order or standards otherwise applicable at the time of project permit approval. Replacement tree size, species, and spacing to be provided as mitigation shall be subject to approval by SDOT Urban Forestry to meet ROW standards and to restore canopy cover within or geographically proximate to the project corridor and corridors impacted by use as construction haul or detour routes.		Noted. Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, and Section 4.8, Ecosystems, of the Final EIS addresses consistency with tree preservation requirements. Additional information about tree ordinance has been added to Appendix N.4, Ecosystems Technical Report.
224	Executive Summary	ES-28	ES3.1.2.2	Curtis Ailes	SDOT	Middle column, top of page. Comment states "the other segments of the streetcar" should read "SOME of the other segments" (the existing statement implies that entirety of the rest of the system is operable which is false)	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
225	Executive Summary	ES-40	ES.4	Curtis Ailes	SDOT	Middle column, end of 1st paragraph. SDOT would like to hear more about the "Seattle Streetcar WSBL Construction Operations Plan" and be integrated into its design		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
226	Ch 2 Alternatives Considered	2-93	2.8.2.1	Curtis Ailes	SDOT	Clarify what "payback a portion of federal dollar already expended" means as this relates to streetcar		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
227	Executive Summary	ES-31	ES.3.1.2.3	Alison Redenz	SDOT	Right column, bottom of page. Comment states for Alternative DT-1 "other segments of the streetcar could continue to operate but not as a connected system". With the streetcar being unable to turnback at McGraw Square it essentially makes the SLU line inoperable. The existing statement implies that the other portions of the line could operate which is false.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
228	Executive Summary	ES-32	ES.3.1.2.3	Alison Redenz	SDOT	Left column, top of the page. Comment states for Alternative DT-2 "streetcar would be closed at the Terry Avenue North and Thomas Street intersection for Alternative DT-2, which would impact northbound travel of the streetcar and could impact frequency of service". Without significant mitigation, this would essentially make the SLU line inoperable and have long-term impacts on ridership. The existing statement implies that the other portions of the line could operate, while the northern part of the line would not, which is false.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
229	Executive Summary	ES-32	ES.3.1.2.3	Alison Redenz	SDOT	Left column, top of the page. Streetcar would be interested in hearing more about the "Alternative construction approaches that could allow for single track operations of the streetcar and maintain access to the maintenance facility during construction". Approaches that could allow single track operations, would take significant investment and construction time.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
230	Ch 3 Transportation	3-133	3.19.3.2	Curtis Ailes	SDOT	Paragraph states that "Other segments of the streetcar system WOULD be able...". The word WOULD should be changed to COULD as there is not yet clarity on whether disruptions at CID and DT would be concurrent thus interrupting the streetcar system in two places rendering the "would" assumption incorrect	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
231	Ch 3 Transportation	3-134	3.19.3.2	Curtis Ailes	SDOT	2nd paragraph states that construction would impact streetcar service. Is it possible to state in this paragraph that the streetcar could continue to operate "outbound" (or whatever directional denomination fits best) implying that the remaining portion of the existing FHS could still function outside of the construction disruption	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
232	Ch 3 Transportation	3-134	3.19.3.2	Curtis Ailes	SDOT	For CID-2a, language is missing which relates to utility relocations potential affect on streetcar service. This is something that was discussed in engineering group meetings and potential route could travel on S Jackson St between 5th and 6th, potentially disrupting streetcar service. This is not called out in this paragraph	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
233	Ch 3 Transportation	3-140	3.19.4.2	Curtis Ailes	SDOT	For DT-2, there is no mention of potential mitigations to the portion of affected streetcar tracks	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
234	Ch 3 Transportation	3-139	3.19.4.2	Alison Redenz	SDOT	First paragraph under 3.19.4.2 Transit. For DT-1, the comment states that "With the full closure of Westlake Avenue near Denny Way, the streetcar would not be able to travel through this segment." The next sentence states, "The streetcar may be able to continue to operate in South Lake Union and Downtown/First Hill, although not as a connected system". The full closure of Westlake near Denny, would prohibit streetcar from completing its turnback at McGraw Square, and SLU would essentially be inoperable and have long-term impacts on ridership. Both statements suggest that the SLU line would be able to operate portions of the line, which is false.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
235	Ch 3 Transportation	3-151	3.19.7.1	Alison Redenz	SDOT	First paragraph, last sentence. For all DT and CID alternatives (besides Alternative CID-2a with the diagonal station configuration and Option CID-2b), the comment states that "Sound Transit would implement capital improvements, such as a crossover track or temporary passenger stations along the streetcar alignment to maintain streetcar service during construction, where feasible." Streetcar would like to weigh in on potential capitol improvements to maintain streetcar service during construction.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
236	Ch 6 Alternatives Evaluation	6-16	6.2.2.2.1	Alison Redenz/Curtis Ailes	SDOT	2nd paragraph under 6.2.2.2.1. Paragraph states that "Other segments of the streetcar system WOULD be able...". The word WOULD should be changed to COULD as there is not yet clarity on whether disruptions at CID and DT would be concurrent thus interrupting the streetcar system in two places rendering the "would" assumption incorrect	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
237	Ch 6 Alternatives Evaluation	6-17	6.2.2.2.1	Alison Redenz/Curtis Ailes	SDOT	Table 6-5, 4th Column (CID-2a), 3rd bullet in Transportation Impacts. Paragraph states that "Other segments of the streetcar system WOULD be able...". The word WOULD should be changed to COULD as there is not yet clarity on whether disruptions at CID and DT would be concurrent thus interrupting the streetcar system in two places rendering the "would" assumption incorrect	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
238	Ch 6 Alternatives Evaluation	6-18	6.2.2.2.1	Alison Redenz/Curtis Ailes	SDOT	Table 6-5, 2nd Column (CID-1a), 2nd Bullet in Transportation Impacts. Paragraph states that "Other segments of the streetcar system WOULD be able...". The word WOULD should be changed to COULD as there is not yet clarity on whether disruptions at CID and DT would be concurrent thus interrupting the streetcar system in two places rendering the "would" assumption incorrect	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
239	Ch 6 Alternatives Evaluation	6-18	6.2.2.2.1	Alison Redenz/Curtis Ailes	SDOT	Table 6-5, 3rd Column (CID-1b), 1st Bullet in Transportation Impacts. Paragraph states that "Other segments of the streetcar system WOULD be able...". The word WOULD should be changed to COULD as there is not yet clarity on whether disruptions at CID and DT would be concurrent thus interrupting the streetcar system in two places rendering the "would" assumption incorrect	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
240	Ch 6 Alternatives Evaluation	6-21	6.2.2.2.2	Alison Redenz/Curtis Ailes	SDOT	2nd paragraph. The paragraph states "the other segments of the streetcar" should read "SOME of the other segments" (the existing statement implies that the entirety of the rest of the system is operable which is false). Streetcar program staff are interested in involvement in the "alternative construction approaches" mentioned in this paragraph		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
241	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Alison Redenz	SDOT	For DT-1, the comment states that "During this time, this segment of the Seattle Streetcar would be impacted. Other segments of the streetcar (through South Lake Union, Downtown, and Capitol Hill/First Hill) may continue to operate, but not as a connected system.)" The full closure of Westlake near Denny, would prohibit the streetcar from completing its turnback at McGraw Square, and SLU would essentially be inoperable and have long-term impacts on ridership. Both statements suggest that the SLU line would be able to operate portions of the line, which is false.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
242	Social Resources, Community Facilities, and Neighborhoods	4.3.4-22	4.3.4.4.3	Curtis Ailes	SDOT	For CID-2a, language is missing which relates to utility relocations potential affect on streetcar service. This is something that was discussed in engineering group meetings and potential route could travel on S Jackson St between 5th and 6th, potentially disrupting streetcar service. This is not called out in this paragraph	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
243	Ch 5 Cumulative Impacts	Global	Global	Curtis Ailes	SDOT	All mentions of Streetcar in this chapter refer to "First Hill Streetcar" with no mention of South Lake Union streetcar. It is unclear if this is a purposeful omission or whether all uses should be converted to "Seattle Streetcar" to imply system-wide effects.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
244	Technical Report: Transportation	Global	Global	Curtis Ailes	SDOT	Several mentions of Streetcar in this chapter refer to "First Hill Streetcar" with no mention of South Lake Union streetcar. It is unclear if this is a purposeful omission or whether all uses should be converted to "Seattle Streetcar" to imply system-wide effects.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
245	Technical Report: Transportation	3-49	3	Curtis Ailes	SDOT	Figure 3-5 implies that CID construction impacts would only affect streetcar service there while the rest of the system is able to work. This is not true and graphics need to be altered to reflect the likely possibility that parallel disruptions will occur at either DT-1 or DT-2 locations further restricting the ability to operate the other sections	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
246	Technical Report: Transportation	3-49	3	Curtis Ailes	SDOT	1st paragraph. The paragraph states "the other segments of the streetcar" should read "SOME of the other segments" (the existing statement implies that the entirety of the rest of the system is operable which is false). Streetcar program staff are interested in involvement in the "alternative construction approaches" mentioned in this paragraph	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
247	Technical Report: Transportation	3-50	3	Curtis Ailes	SDOT	Figure 3-6 implies that CID construction impacts would only affect streetcar service there while the rest of the system is able to work. This is not true and graphics need to be altered to reflect the likely possibility that parallel disruptions will occur at either DT-1 or DT-2 locations further restricting the ability to operate the other sections	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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248	Technical Report: Transportation	3-50	3	Curtis Ailes	SDOT	Figure 3-7 implies that CID construction impacts would only affect streetcar service there while the rest of the system is able to work. This is not true and graphics need to be altered to reflect the likely possibility that parallel disruptions will occur at either DT-1 or DT-2 locations further restricting the ability to operate the other sections	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
249	Technical Report: Transportation	3-54	3	Curtis Ailes	SDOT	Figure 3-8 implies that DT-1 construction impacts would only affect streetcar service there while the rest of the system is able to work. This is not true and graphics need to be altered to reflect the likely possibility that parallel disruptions will occur at CID further restricting the ability to operate the other sections	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
250	Technical Report: Transportation	3-55	3	Curtis Ailes	SDOT	Figure 3-9 implies that DT-2 construction impacts would only affect streetcar service there while the rest of the system is able to work. This is not true and graphics need to be altered to reflect the likely possibility that parallel disruptions will occur at CID further restricting the ability to operate the other sections	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
251	Technical Report: Transportation	3-55	3	Curtis Ailes	SDOT	The 3rd bullet point relates to service disruptions as a result of closing the Terry & Thomas intersection. The resulting disruption is phrased "the streetcar would not be able to travel northbound through the intersection (which is true), which could impact the frequency and headway of the streetcar system". If this intersection is closed, it WILL impact operations, not COULD. No mention of potential mitigation at this location is made that would result in the "could impact" statement	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
252	Technical Report: Transportation	11-2	11	Curtis Ailes	SDOT	There is no mention in this document regarding the potential for significant disruptions to the City's contractual obligations for streetcar operations. For instance, the following passage would cover the City's interests related to streetcar service disruptions, "if Seattle streetcar service is forced to close for any amount of time, this will result in financial impacts to the City of Seattle which include, but are not limited to, contractual obligations to operate the streetcar, ability to retain skilled labor, ability to recruit and train skilled labor when service resumes, and other unforeseen administrative impacts that would not exist otherwise"	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
253	Appendix G - Environmental Justice	Global	Global	Alison Redenz	SDOT	Statements throughout Appendix G reiterate some of the previously corrected statements. As stated earlier all mentions of DT-1 and DT-2 stating that streetcar "may continue to operate, but not as a complete system" are incorrect until further construction mitigation is finalized.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
254	Technical Report: Transportation	3-66	3.3.3.2	Alison Redenz	SDOT	2nd paragraph. Document states that, "Sound Transit would implement capital improvements such as a crossover or other track work or temporary passenger stations along the streetcar alignment to maintain streetcar service during construction, where feasible. For example, under Alternative DT-2, additional track could be installed in the vicinity of Westlake Avenue North and Harrison Street to maintain streetcar service during construction." This statement does not acknowledge the service impacts of constructing these mitigation measures. Streetcar Program staff would also like to weigh in on any "Construction Operations Plan" elements mentioned throughout the document.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
255	Executive Summary	ES-28	ES 3.1.2.2.	Chris Eilerman	SDOT	The analysis is incomplete. "The other segments of the streetcar system would still be able to operate but not as a connected system, which could impact the frequency of service." Analysis and mitigation of assertion that other streetcar segments could operate under CID-1a CID-1b, and CID-2a is inaccurate and missing details. Center City Connector (C3) alignment is not operable with a closure at Jackson Street. Access to maintenance and operations activities at the FHS OMF is cut off and there is not ability to turn streetcars back up Jackson to 1st Ave. Construction of new trackwork to achieve this would be needed. Only FHS would be operable in such a closure.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
256	Executive Summary	ES-29	Table ES-5	Chris Eilerman	SDOT	The analysis is incomplete. Analysis and mitigation of assertion that other streetcar segments could operate under CID-1a CID-1b, and CID-2a is inaccurate and missing details. Center City Connector (C3) alignment is not operable with a closure at Jackson Street. Access to maintenance and operations activities at the FHS OMF is cut off and there is not ability to turn streetcars back up Jackson to 1st Ave. Construction of new trackwork to achieve this would be needed. Only FHS would be operable in such a closure.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
257	Executive Summary	ES-31-32	ES 3.1.2.3	Chris Eilerman	SDOT	Description of streetcar impact is inaccurate and mitigation measures are missing. Denny Station Construction under DT-1 and DT-2 would close streetcar operations for 4 years. Other segments could not operate as construction closures of Westlake (DT-1) for Denny Station would cut off access between the streetcar mainline alignment as constructed by C3 and the SLU Operations and Maintenance Facility (OMF) for the majority of the streetcar fleet. SLU streetcar would also be closed as access between SLU OMF and turn around track at McGraw Square would be removed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
258	Executive Summary	ES-32	ES 3.1.2.3, Table ES-6	Chris Eilerman	SDOT	Description of streetcar impact is inaccurate and mitigation measures are missing. Denny Station Construction under DT-1 would close streetcar operations for 4 years. Alternative construction methods allowing single track operations of streetcar would still have significant impacts to streetcar service frequency, safety, and configuration. New special track, signaling, and safety certification of such changes by WSDOT would be required.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
259	Executive Summary	ES-32	ES 3.1.2.3, Table ES-6	Chris Eilerman	SDOT	Description of streetcar impact is inaccurate and mitigation measures are missing. Denny Station Construction under DT-2 would close streetcar operations for 4 years as it would cut off access between the streetcar mainline alignment as constructed by C3 and the SLU Operations and Maintenance Facility (OMF) for the majority of the streetcar fleet. SLU streetcar would also be closed as access between SLU OMF and turn around track at McGraw Square would be removed. Streetcar operates on single, one-way track along Westlake and Terry. Closure at Terry would not provide for continuous track to operate.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
260	Executive Summary	ES-40	ES.4	Chris Eilerman	SDOT	Information needed to identify mitigation is missing. Closure of streetcar service during construction is unacceptable. A WSBL Construction Operations Plan to evaluate operational scenarios and capital investments to minimize impacts should be included as part of the DEIS to allow for an understanding of the actual impacts and proposed mitigation to maintain streetcar service during construction.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
261	Executive Summary	ES-41	ES.5.2	Chris Eilerman	SDOT	Information needed to identify mitigation is missing. Closure of streetcar service during construction is unacceptable. A WSBL Construction Operations Plan to evaluate operational scenarios and capital investments to minimize impacts should be included as part of the DEIS to allow for an understanding of the actual impacts and proposed mitigation to maintain streetcar service during construction.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
262	Ch 3 Transportation Environment and Consequences	3-78	3.12.1	Chris Eilerman	SDOT	The information necessary to identify impacts and compare alternatives is missing. This section describes Metro bus service in the study area but no discussion of Seattle Streetcar service or mention of Rapid Ride J Line, which will replace Route 70 service and is a federally-funded, reasonably foreseeable project, is offered throughout the discussion of the Affected Environment in this section.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
263	Ch 3 Transportation Environment and Consequences	3-80	3.12.2	Chris Eilerman	SDOT	The analysis is incomplete. What are the assumptions in the No-Build Alternative regarding Seattle Streetcar and Center City Connector? No discussion is offered in the description of environmental impacts.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
264	Ch 3 Transportation Environment and Consequences	3-81	3.12.3.1.3	Chris Eilerman	SDOT	The analysis is incomplete. What are the assumptions in the Build Alternative regarding Seattle Streetcar and Center City Connector? How will the removal of lanes on 4th Ave S as part of the CID-1a and CID 1b options affect Seattle Streetcar?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
265	Ch 3 Transportation Environment and Consequences	3-82	3.12.3.2	Chris Eilerman	SDOT	The analysis is incomplete. How will Seattle Streetcar travel times be affected by the Build Alternatives?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
266	Ch 3 Transportation Environment and Consequences	3-89	3.13.1.1	Chris Eilerman	SDOT	The methodology is inconsistent and incomplete throughout the document. This section notes that the First Hill Streetcar runs on Jackson St., but later, the document states that it is assumed that the Center City Connector project is completed as part of the No-Build alternative. Discussions of streetcar impacts throughout the document should reflect this assumption and operational needs of the Seattle Streetcar under the completed Center City Connector configuration.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
267	Ch 3 Transportation Environment and Consequences	3-127	3.19.1.2.1	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system. It states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
268	Ch 3 Transportation Environment and Consequences	3-133	3.19.3.2	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system but the streetcar would still be operable though not as a connected system. Significant modifications to the streetcar infrastructure would be necessary for this to occur. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. No discussion of the mitigation proposed to achieve this is offered. The document states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
269	Ch 3 Transportation Environment and Consequences	3-133	3.19.3.2	Chris Eilerman	SDOT	The analysis is incomplete. Operation of truncated streetcar service from the CID area to Capitol Hill east of the proposed closure of 5th Ave. (under CID-2a) is only possible if the closure footprint does not impact the streetcar station stop at 5th and Jackson. This mitigation should be identified for this option. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
270	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.2	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities for DT-1 and related Westlake closure would impact the Seattle Streetcar system but the streetcar would still be operable though not as a connected system. Significant modifications to the streetcar infrastructure, including capital improvements and maintenance of access to the SLU maintenance facility, where the majority of the streetcar fleet is to be housed, would be necessary for this to occur. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. The streetcar could not operate on the alignment north of Westlake as it would have no access to the SLU OMF. Streetcar headway and frequency would absolutely be impacted by the DT-1 closures. Further, traffic diversions to Stewart St. and 1st Ave. resulting from the construction activity would likely also impact streetcar operations on those streets. No discussion of the mitigation proposed to achieve this is offered. The document states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
271	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.2	Chris Eilerman	SDOT	The analysis is incomplete. Alternative construction methods allowing for single track access would still have impacts to streetcar frequency, service, and possibly, safety. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. The DEIS should include a technical memorandum and analysis describing this alternative, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
272	Ch 3 Transportation Environment and Consequences	3-140	3.19.4.2	Chris Eilerman	SDOT	The analysis is incomplete. Closure of Terry Ave. as proposed under DT-2 would still have major impacts to streetcar frequency, service, and possibly, safety as it would prevent access to the SLU OMF. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
273	Ch 3 Transportation Environment and Consequences	3-150	3.19.7.1	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. It states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
274	Technical Report: Transportation	3-28	3.3.1.1	Chris Eilerman	SDOT	The methodology is inconsistent throughout the document. Table 3-21 lists the SLU and FHS streetcar lines as existing service, but not the complete Seattle Streetcar system as expanded by the Center City Connector alignment. However, the document states repeatedly throughout that it is assumed that the Center City Connector is complete by the time the project begins. This should be reflected in the discussion of existing streetcar service and impacts caused to streetcar by the project.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
275	Technical Report: Transportation	3-45	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system but the streetcar would still be operable though not as a connected system. Significant modifications to the streetcar infrastructure would be necessary for this to occur. No discussion of the mitigation proposed to achieve this is offered. The document states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
276	Technical Report: Transportation	3-48	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system but the streetcar would still be operable though not as a connected system. Significant modifications to the streetcar infrastructure would be necessary for this to occur. No discussion of the mitigation proposed to achieve this is offered. The document states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
277	Technical Report: Transportation	3-49	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. The document notes that the C3 project is assumed to be complete and construction activities would impact the Seattle Streetcar system but the streetcar would still be operable though not as a connected system. Significant modifications to the streetcar infrastructure would be necessary for this to occur. No discussion of the mitigation proposed to achieve this is offered. The document states that ST would work with the City to develop an operational plan to minimize impacts to streetcar service. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
278	Technical Report: Transportation	3-49	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. Operation of truncated streetcar service from the CID area to Capitol Hill east of the proposed closure of 5th Ave. (under CID-2a) is only possible if the closure footprint does not impact the streetcar station stop at 5th and Jackson. This mitigation should be identified for this option. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
279	Technical Report: Transportation	3-54	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. Alternative construction methods allowing for single track access would still have impacts to streetcar frequency, service, and possibly, safety. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. The DEIS should include a technical memorandum and analysis describing this alternative, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
280	Technical Report: Transportation	3-55	3.3.2.2	Chris Eilerman	SDOT	The analysis is incomplete. Description of streetcar impact is inaccurate and mitigation measures are missing. Denny Station Construction under DT-2 would close streetcar operations for 4 years as it would cut off access between the streetcar mainline alignment as constructed by C3 and the SLU Operations and Maintenance Facility (OMF) for the majority of the streetcar fleet. SLU streetcar would also be closed as access between SLU OMF and turn around track at McGraw Square would be removed. Streetcar operates on single, one-way track along Westlake and Terry. Closure at Terry would not provide for continuous track to operate.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
281	Technical Report: Transportation	3-66	3.3.3.2	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
282	Ch 4 Affected Environment and Environmental Consequences	4.3.4.-21	4.3.4.4.3	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
283	Ch 4 Affected Environment and Environmental Consequences	4.3.4-22	4.3.4.4.4.	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
284	Ch 4 Affected Environment and Environmental Consequences	4.3.6-4	4.3.6.3.2	Chris Eilerman	SDOT	The analysis is incomplete. The DEIS has repeatedly noted that that the Center City Connector project is assumed to be complete in both the Build and No-Build Alternatives. It does not appear that the VMT numbers reflect that assumptions.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
285	Ch 4 Affected Environment and Environmental Consequences	4.3.10-2	4.3.10.3	Chris Eilerman	SDOT	The analysis is incomplete. The DEIS has repeatedly noted that that the Center City Connector project is assumed to be complete in both the Build and No-Build Alternatives. It does not appear that the VMT numbers reflect that assumptions.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
286	Ch 5 Cumulative Impacts	5-10	5.4.4.1	Chris Eilerman	SDOT	The analysis is incomplete. The closures The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The likely impact of these closures will require a shutdown of streetcar operations. The economic impacts of this closure is not discussed in the DEIS. There would be impacts to streetcar staff and funding, as well as the need to rebuild the staffing infrastructure upon resumption of streetcar operations.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
287	Ch 6 Alternatives Evaluation	6-16	6.2.2.2.1	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
288	Ch 6 Alternatives Evaluation	6-17, 6-18	Table 6-5	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system-- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
289	Ch 6 Alternatives Evaluation	6-21	6.2.2.2.2., Table 6-6	Chris Eilerman	SDOT	The analysis and discussion of mitigation is incomplete. The DEIS notes repeatedly that the streetcar will be impacted to varying degrees under almost all DT and CID alternatives yet will still operate though not as a connected system. The analysis and mitigation are incomplete as they do not sufficiently detail the degrees to which streetcar will be impacted - the likely potential impact of the proposed closures will be to shut down streetcar operations throughout the streetcar system- nor does the DEIS detail the mitigation needed to allow for continued streetcar operations. The streetcar cannot be easily rerouted or curtailed without major capital work to reconfigure the alignment, install temporary tracks, maintain access to the maintenance facilities at SLU and FHS, and provide for safety during such operations. Such work and operations are subject to safety certification by WSDOT as the Washington State Rail Safety Oversight Agency. Absent major capital modifications to the track and signaling, the proposed closures would effectively shut down operation of the Seattle Streetcar entirely. Such modifications are conditioned in the DEIS as "where feasible." The DEIS should include a technical memorandum and analysis describing the mitigations that are feasible to avoid shutdown of the streetcar system, including track and signal configuration and how it would mitigate these impacts. A technical memorandum identifying a plan to maintain streetcar service during construction should be prepared by ST. Given the magnitude of these impacts, this plan should be developed as part of the DEIS and should identify and address the potential for C3 construction to overlap with WSBL construction so that the proposed mitigation can be fully understood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
290	Appendix J - Conceptual Design Drawings	117	L-50-GSP714	Yuling Teo	SDOT	Missing callout or legend for the lines on the elevation view to understand the alignment in elevation perspective.	All (Systemwide)	The legend for Appendix J, Conceptual Design Drawings, of the Final EIS has been updated.
291	Appendix J - Conceptual Design Drawings	117	L-50-GSP714	Yuling Teo	SDOT	The existing structures foundations are not shown to demonstrate any conflict or not to the proposed alignment/structure	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
292	Appendix J - Conceptual Design Drawings	116		Yuling Teo	SDOT	Missing callout or legend for the lines on the elevation view to understand the alignment in elevation perspective.	All (Systemwide)	The legend for Appendix J, Conceptual Design Drawings, of the Final EIS has been updated.
293	Ch 2 Alternatives Considered	2-63	2.1.2.2.4	Yuling Teo	SDOT	Last paragraph on the page - "The West Galer Street flyover pedestrian facility would be modified to maintain its function in approximately the same location, providing access to the station". Please provide information on the impact to the users during the modification of this facility.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
294	Geology and Soils	4.3.11-4	4.3.11.3.1	Yuling Teo	SDOT	Seismic Hazard, 3rd bullet - please include lateral spreading as an identified potential seismic hazard	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
295	Economics	4.3.3-8	4.3.3.3.3	Yuling Teo	SDOT	Chinatown-International District Segment - it is stated that no impacts are expected to affect the rail, truck, or marine freight movement. For Alternative CID-1a which is the shallow tunnel alternative along 4th Ave S., the 4th Ave S. viaduct is expected to be demolished and reconstructed according to this DEIS(Section 2.1.2.2.2). Can it say for sure there is no impact?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
296	Public Services, Safety and Security	4.3.14-10	4.3.14.3	Yuling Teo	SDOT	It is stated that police vehicles are not anticipated to experience increased response times. Is this based on a study comparing a roadway without and with visual obstruction such as the guideway columns in the roadway as proposed for alternatives SIB-1 & SIB-2?	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
297	Geology and Soils	4.2.11-4	4.2.11.3.1	Yuling Teo	SDOT	Seismic Hazard, 3rd bullet - please include lateral spreading as an identified potential seismic hazard	All (Systemwide)	Text added as suggested to the Final EIS.
298	Public Services, Safety and Security	4.3.14-16	4.3.14.4.5	Yuling Teo	SDOT	Please address the interim traffic impact when Sound Transit performs routine maintenance of the guideway structures within the Elliott Way W as proposed in Alternative SIB-1 & SIB-2, for the remaining service live of the Sound Transit Link.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
299	Ch 3 Transportation	3-54	3.11.1	Yuling Teo	SDOT	Please address construction impact to bridges immediate and long term serviceability, structural performance, and service life.	All (Systemwide)	Bridges that will be used in the study area during construction traffic are designated freight routes. Sound Transit will comply with all weight restrictions on these roadways.
300	Ch 3 Transportation	3-126	3.19.1	Yuling Teo	SDOT	Please address construction impact to bridges immediate and long term serviceability, structural performance, and service life.		See response to comment 299.
301	Ch 3 Transportation	3-54	3.11.1	Yuling Teo	SDOT	How would pre-construction activities such as subsurface exploration boring and potholing for a project this size be impacting the City? Where is this discussed?		Such explorations would generally be with the project footprint and effects would be consistent with effects of project construction. Sound Transit will acquire the necessary permits for this work from the City as these activities advance.
302	Ch 3 Transportation	3-126	3.19.1	Yuling Teo	SDOT	How would pre-construction activities such as subsurface exploration boring and potholing for a project this size be impacting the City? Where is this discussed?		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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303	Technical Report: Transportation	6-3, 6-25	6.3.1.1, 6.4.1.1	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Missing are: sidewalk conditions (including slope, pavement irregularities, obstructions, widths), curb ramp locations (currently missing) and conditions, and accessible paths mapped within 1/4 mile of the station. The inventory should contain all relevant information to evaluate ADA compliance and impacts within the station area. DEIS pedestrian facility maps cover a much broader scale, and should also focus on the 1/4 mile station area	All (Systemwide)	The Final EIS includes an inventory of existing sidewalks, trails, marked crosswalks, and curb ramps within 10 minute-minute walksheds of stations, and the general conditions of sidewalks and curb ramps were documented within a one-block radius of the preferred alternative station locations. Facility inventories beyond these areas and/or a full Americans with Disabilities Act assessment of City facilities (pavement irregularities, obstructions , and similar) is outside the scope of this environmental analysis. Sound Transit's Station Access Fund program is one venue for identifying and funding general nonmotorized access improvements to the light rail system.
304	Technical Report: Transportation	6-32, 6-51, 6-12, 6-9, 6-24, 6-32	6.4.2.2, 6.4.3.1, 6.1.1, 6.3.2.2, 6.3.3.1, 6.4.2.2,	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Rebuild of non-motorized facilities and intersection areas need to be communicated as minimum requirements, and trigger restoration requirements in accordance to SDOT's Right-of-Way Opening and Restoration Rule (ROWORR), SDOT ADA Transition Plan, and other applicable sidewalk and pavement restoration requirements at time of permitting -- including replacement and upgrade of impacted ADA curb ramps and receiving companion curb ramps.	All (Systemwide)	Mitigation was identified for project-related impacts to the transportation system, as appropriate. To the extent feasible, Sound Transit followed local design guidance and requirements in the design of the project and when restoring/replacing other affected facilities. Should deviations be necessary due to site-specific conditions, these would need to be approved by the City of Seattle, as the permitting authority. References to applicable local codes and guidance were updated for the Final EIS.
305	Ch 3 Transportation Environment and Consequences	3-38, 3-41, 3-113	3.7.3.1, 3.7.4, 3.15.4	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Rebuild of non-motorized facilities and intersection areas need to be communicated as minimum requirements, and trigger restoration requirements in accordance to SDOT's Right-of-Way Opening and Restoration Rule (ROWORR), SDOT ADA Transition Plan, and other applicable sidewalk and pavement restoration requirements at time of permitting -- including replacement and upgrade of impacted ADA curb ramps and receiving companion curb ramps.	All (Systemwide)	Mitigation was identified for project-related impacts to the transportation system, as appropriate. To the extent feasible, Sound Transit followed local design guidance and requirements in the design of the project and when restoring/replacing other affected facilities. Should deviations be necessary due to site-specific conditions, these would need to be approved by the City of Seattle, as the permitting authority. References to applicable local codes and guidance were updated for the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
306	Technical Report: Transportation	10-2	10.5	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. No measures are provided as to how the project is evaluating 'Americans with Disabilities Act accessibility'. This information is crucial for understanding whether all factors related to ADA were documented as part of the analysis.	All (Systemwide)	The Final EIS was updated to include a map within the 10-minute walkshed (0.5 mile) of the preferred alternative, showing sidewalk condition. Curb ramp condition was also reviewed and are described in the text. A full Americans with Disabilities Act assessment of City facilities as requested (pavement irregularities, obstructions , and similar) was outside the scope of this project. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
307	Technical Report: Transportation	6-23, 6-50	6.3.3.1, 6.4.3.1	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. The DEIS notes that to the extent feasible, impacted bike facilities would be rebuilt to a similar level of protection and comfort. All stations, noted on Page 3-43 of Chapter 3, would be designed to include appropriate non-motorized facilities to accommodate increased levels of activity around stations. Yet it is unclear if existing bike facilities within the station area have sufficient capacity for increased bike demand and trips to and from the station.	All (Systemwide)	The Final EIS notes the typical capacity of an on-road bicycle facility as approximately 2,000 bicycles per hour based on the Highway Capacity Manual. Given the number and capacity of bicycle facilities serving the station areas, the existing and planned bicycle facilities around the stations are expected to have sufficient capacity for these additional bicycle trips. This information has been added to the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
308	Technical Report: Transportation	4-14, 4-91	4.2.2.2, 4.3.2.2	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. It is unclear how TNCs are incorporated into pick-up/drop-off calculations, and there is a lack of specific analysis on long-term TNC impacts (as a different type of trip generator than typical pick-up/drop-off). The document also does not describe other first-last mile TNC options that may influence station ridership and station area mobility	All (Systemwide)	Sound Transit researched market trends and Transportation Network Company usage at transit stations to forecast a growth factor in Transportation Network Company usage. Transportation Network Companies continue to be presented together with pick-up/drop-offs as these do not have notably different impact profiles. The station planning team continues to consider the role of Transportation Network Companies and their operational needs as part of the final design. For the purposes of trip generation forecasting, micromobility is included within the walk and bike categories.
309	Technical Report: Transportation	5-5, 5-7, 5-9, 5-18, 5-20	Figure 5-1, Figure 5-2, Figure 5-3, Figure 5-4, Figure 5-5	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. As noted in Page 4-23 of the Transportation Technical Analysis methodology, data will be collected by parking type (e.g., time-limited parking, free parking, loading zone, or private) and location (e.g., block face). Exhibits only show where these are located, not what type. DEIS parking maps cover a much broader scale, and should include map exhibits focused on the 1/4 mile station area where parking conditions are more likely to change and/or be impacted by station area planning and construction	All (Systemwide)	Detailed parking database and maps have been created and can be provided to City staff. Data from the inventory is reflected, as updated, in the Final EIS.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
310	Ch 3 Transportation Environment and Consequences	3-18, 3-85	3.4.3.4, 3.12.3.4	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Disaggregated bike trip data can better identify sizing and configuration of bike parking, as well as bike-specific impacts to the existing and proposed facilities. Will a separate study/methodology be developed for bike-only trips?	All (Systemwide)	Sound Transit collaborated with the City of Seattle to help inform the appropriate amount of bike parking at stations. Potential impacts to facilities due to increased bicycle volumes has been addressed in the non-motorized section. Due to statistical uncertainty associated with the low absolute numbers of bikes in the trip generation forecasts, pedestrian and bike access estimates were presented together in the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
311	Technical Report: Transportation	6-14, 6-16, 6-20	6.3.2.2	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. The DEIS notes alternatives with elevated guideway columns that could encroach on existing sidewalks and that Sound Transit would rebuild the affected facilities to the extent possible. It is possible that encroachments may preclude sidewalks from being rebuilt to standard if there is not sufficient ROW space; constrained conditions should be identified.	West Seattle (DUW, DEL, WSJ)	The WSBL Draft EIS identified areas where columns could encroach and described how that will be handled with the City. The areas where columns could encroach were reviewed again in the West Seattle Link Extension Final EIS to confirm if there were any changes or newly identified impacts, which were discussed in the impacts section.
312	Technical Report: Transportation	6-44, 6-46, 6-47	6.4.2.2	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. The DEIS notes alternatives with elevated guideway columns that could encroach on existing sidewalks and that Sound Transit would rebuild the affected facilities to the extent possible. It is possible that encroachments may preclude sidewalks from being rebuilt to standard if there is not sufficient ROW space; constrained conditions will need to be identified.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
313	Technical Report: Transportation	6-24	6.3.3.1	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Column encroachments can trigger additional restorations beyond sidewalk rebuild as described in the Right-of-Way Opening and Restoration Rules (ROWORR), such as adding/upgrading curb ramps to meet minimum ADA standards, street tree protections (and/or replacement), signals replacement, and utilities relocation; these will need to be considered as part of impacts and mitigation.	West Seattle (DUW, DEL, WSJ)	See responses to comments 305, 306, and 311.
314	Technical Report: Transportation	6-50	6.4.3.1	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Column encroachments can trigger additional restorations beyond sidewalk rebuild as described in the Right-of-Way Opening and Restoration Rules (ROWORR), such as adding/upgrading curb ramps to meet minimum ADA standards, street tree protections (and/or replacement), signals replacement, and utilities relocation; these will need to be considered as part of impacts and mitigation.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
315	Utilities	4.2.15-4	4.2.15.4.1	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Any above ground utility relocations within the ROW need to meet minimum standard clearances and design. Utility work in the ROW, as well as utility relocation on adjacent ROW, may trigger other improvements. For example, utility impacts at intersections will trigger ADA curb ramps under SDOT's Right-of-Way Opening and Restoration Rule (ROWORR), and companion curb ramp policy requirements	West Seattle (DUW, DEL, WSJ)	Comment noted, Sound Transit will continue to coordinate with the City of Seattle on design requirements for utility relocations, including street reconstruction requirements.
316	Utilities	4.2.15-5, 4.3.15-6	4.2.15.6, 4.3.15.6	Justin Panganiban & Steve Hou	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. It is unlikely that the analysis of major utilities would result in no impacts to major utilities, even with the appropriate pre-construction measures. Further elaborate what types of pre-construction measures would result in no mitigations, and what a typical mitigation approach would be for impacted utilities.	All (Systemwide)	Sound Transit will continue to coordinate with the City of Seattle on preconstruction activities for utility relocations and measures to minimize impacts as design progresses.
317	Technical Report: Transportation	6-1, 6-16, 6-14, 6-20, 6-46	6.1, 6.3.2.2, 6.4.2.2	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. What does Sound Transit see as the potential limits to rebuilding facilities "to the extent possible", and when and under what forum would the agreement with the City of Seattle on rebuild of facilities take place?	All (Systemwide)	See response to comment 305.
318	Technical Report: Transportation	6-2	6.2	Justin Panganiban	SDOT Street Use	The methodology does not capture complete impacts of the project. Areas around each station that are accessible to pedestrians and bicyclists did not include an assessment of accessible curb ramps, which are an integral part of an accessible pedestrian network. Follow guidance in SDOT's Right-of-Way Improvements Manual to perform an assessment of accessible crossings within 1/4 mile of transit stations. SDOT maintains curb ramp data in public-facing databases, such as: https://seattlecitygis.maps.arcgis.com/apps/webappviewer/index.html?id=8eab0a1cc9e647319131a66cc9b8ce5c	All (Systemwide)	See response to comment 306.
319	Technical Report: Transportation	4-138	Table 4-58	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Given West Galer Street Flyover's impact to the transportation network, provide more specificity on mitigation to maintain ingress/egress for cruise ship terminal with nearby arterial roadway closures; for example, limiting work to close this route only off-season / not impacting cruise traffic.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
320	Utilities	4.2.15-3, 4.3.15-3	4.2.15.4.1, 4.3.15.4.1	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Pole relocations trigger pavement restoration requirements and ADA improvements such as curb ramps, which are not captured as a project impact. A number of poles also include street lighting, and therefore would need to be coordinated with roadway lighting design standards and standard clearances.	All (Systemwide)	Comment noted, Sound Transit will continue to coordinate with the City of Seattle on design requirements for utility relocations, including street reconstruction requirements.
321	Ch 6 Alternatives Evaluation	6-33	6.2.2.3	Justin Panganiban	SDOT Street Use	The analysis is incomplete. Cost factors related to above-ground utilities relocation, required curb ramp upgrades, rebuild and restoration of pedestrian and bike facilities, and accessibility improvements where R.O.W. exists may be significant for any elevated alternatives in West Seattle and Interbay/Ballard, and do not appear to be referenced or considered.	All (Systemwide)	Cost is appropriate for the level of design information available. The cost estimate includes utility relocations and pedestrian improvements included as part of the project based on the current level of design.
322	Utilities	4.2.15-5, 4.3.15-6	4.2.15.6, 4.3.15.6	Justin Panganiban	SDOT Street Use	Mitigation measure(s) for identified impacts are missing from the DEIS. Describe potential mitigations when relocating utilities to adjacent ROWs or private properties isn't feasible -- including for minor utilities (which were not part of the scope of the DEIS analysis)	All (Systemwide)	Sound Transit will continue to coordinate with the City of Seattle and other utility providers as design progresses. Adjustments to project design and protection in place are potential options for addressing utility conflicts.
323	Ch 3 Transportation Environment and Consequences	4-96, 4-19	Table 4-42, Table 4-10	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Per the Technical Report for Transportation Technical Memorandum, specific pick-up/drop-off curb space requirements for non-transit vehicles were validated and adjusted through the DEIS analysis. It is unclear how pick-up/drop-off quantities in the Trip Generation Forecasts are reflected in quantity/location of designated pick-up/drop off spots in Appendix J	All (Systemwide)	Trip generation forecasts are provided to the station design team, who use them--along with other design considerations--to determine the appropriate size and configuration of station facilities. Pick up and drop off forecasts have been updated for the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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324	Technical Report: Transportation	3-10	3.2.2.2	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. It is unclear how bus stop and layover locations were validated with existing ROW conditions to ensure minimum sidewalk requirements and design standards for loading, ADA, and queuing; these transit facility needs may be more extensive depending on type of transit service, # of routes served, frequency, and # of boardings/alightings. Such standards are discussed in Section 3.10: Transit of Streets Illustrated.	All (Systemwide)	In collaboration with King County Metro (Metro) and the City of Seattle, the bus stop and layover locations have been more definitively identified and compared against available right-of-way and Streets Illustrated expectations for the preferred alternative. Potential design deviations have been discussed at interagency workgroup meetings. Transit Integration Profile diagrams summarize routes, active bays, layover areas, and peak hour frequencies. Drawings are in the Final EIS for the preferred alternative. See also responses to comments 305 and 306.
325	Technical Report: Transportation	AE 0036-17		Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. The focus of transit integration impacts are primarily operational, and do not account for potential neighborhood access and ped/bike facility impacts that emerge from utilizing neighborhood streets for turnaround, layover and/or new routing -- particularly in the West Seattle segment.	West Seattle (DUW, DEL, WSJ)	Secondary impacts related to transit operations are summarized in the Final EIS. In the more detailed Final EIS analysis, potential conflicts with other modes and sensitive land uses are disclosed with a focus on the preferred alternative. Analysis of traffic impacts related to pick-up and drop-off is included in the traffic and non-motorized analysis.
326	Fact Sheet	iv	Anticipated Permits and Approvals	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements is missing. Be specific that Street Improvement Permits (SIP) are required for this project for both station and guideway segments. "Street use permit" is too broad of a categorization, as there will be multiple types of street use permits issued for street improvements, utilities work, ROW staging, etc.	All (Systemwide)	In response to this comment, a bullet has been added in the Anticipated Permits and Approvals section of the Fact Sheet to include street improvement permits.
327	Fact Sheet	iv	Anticipated Permits and Approvals	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements is missing. Other approvals: Historically, SDOT requires a project construction permit (PCP) as part of the Street Use Permit, which references the permit plans, scope of work and additional permit conditions. Section 7 of the PCP includes additional permits that may be required to complete this work that are not described in this list and should be referenced, including Seattle Fire, King County Health, etc.	All (Systemwide)	The Anticipated Permits and Approvals list does not list City Code since this is intended to be a list of anticipated permits only. Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable city codes. See responses to comments 82 and 326 regarding responses about the inclusion of construction permits and street use permits, respectively.
328	Ch 2 Alternatives Considered	2-91	2.6.8	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements is missing. Restoration in the ROW impacted by construction activities would trigger restoration requirements per SDOT's Right-of-Way Opening and Restoration Rule (ROWORR), in addition to other related restoration requirements by SDOT, Seattle Public Utilities, Seattle City Light, etc. that are applicable during time of permitting. These includes bringing impacted curb ramps to ADA compliance, not restoration to existing pre-construction conditions.	All (Systemwide)	The Final EIS includes statements that affected facilities would be rebuilt to applicable local and federal standards in Sections 3.7.3, 3.7.4, and 3.11.6.4 of the Final EIS. Local codes and standards for transportation facilities are also referenced in Chapter 2, Guiding Regulations, Plans, and/or Policies, of Attachment N.1A, Transportation Technical Analysis Methodology, of Appendix N.1, Transportation Technical Report.
329	Ch 3 Transportation Environment and Consequences	3-56, 3-128	3.11.1.4, 3.19.1.4	Justin Panganiban	SDOT Street Use	The information used is not accurate. Existing curb ramps (both compliant and non-compliant with ADA) may be expected to be removed or impacted as part of the project; rephrase to indicate that impacted curb ramps will need to be replaced with ADA-compliant curb ramps, and may trigger companion curb ramp requirements per SDOT's companion ADA ramp policy and Right-of-Way Opening and Restoration Rule (ROWORR)	All (Systemwide)	See response to comment 306.
330	Ch 6 Alternatives Evaluation	6-4, 6-10, 6-14, 6-17, 6-21, 6-23, 6-27	Table 6-1, Table 6-3, Table 6-4, Table 6-5, Table 6-6, Table 6-7, Table 6-8	Justin Panganiban	SDOT Street Use	The analysis is incomplete. Several significant impacts have not been identified. Key transportation impacts for each segment, starting on Table 6-1 generally leave out any major impacts that relate to non-motorized modes (pedestrian and bicycle facilities). The DEIS identifies pedestrian and bike detours where existing pedestrian and bicycle facilities are impacted by closures, as well as pedestrian and bike facility impacts as a result of guideway placement; these are key differentiators between alternatives.	All (Systemwide)	The tables include potential impacts to pedestrian and bike facilities that are considered key differentiators. For example Table 6-2, Key Impact Differences - Duwamish Segment, identifies the detour of a portion of the Delridge Connector Trail during construction for Preferred Alternative DUW-1a and Option DUW-1b. A response to this comment regarding the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
331	Utilities	4.3.15-3, 4.2.15-3	4.2.15.4.1, 4.3.15.4.1	Justin Panganiban	SDOT Street Use	The analysis is incomplete. Several significant impacts have not been identified. Utilities construction may require significant pavement and sidewalk restoration in the ROW as triggered by the Right-of-Way Restoration and Opening Rules (ROWORR), especially if these restorations extend the full length of the block	All (Systemwide)	Comment noted. Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations. Sound Transit will continue to coordinate with the City of Seattle on design requirements for utility relocations, including street reconstruction requirements.
332	Utilities	4.3.15-3, 4.2.15-3	4.2.15.4.1, 4.3.15.4.1	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. How does Sound Transit define and differentiate "minor utility" from major utilities as part of the utility impacts analysis? For the purposes of permitting utility work in ROW, SDOT defines minor and major utilities as such: http://www.seattle.gov/transportation/permits-and-services/permits/utility-work-in-the-right-of-way	All (Systemwide)	Comment noted. Major utilities under Impacts Common to All Alternatives in Section 4.15 of the West Seattle Link Final EIS and reflects available information at the current level of design. Major utilities were defined as follows: •Water mains that are 16 inches in diameter or greater •Sanitary sewer force mains and gravity sewers that are 24 inches in diameter or greater •Stormwater drains that are 36 inches in diameter or greater and drainage ponds •Electrical transmission lines that are 115-kilovolt or greater •High-pressure gas mains •Intermediate-pressure gas lines that are 8 inches in diameter or greater •Telephone and fiber optic duct banks with three or more conduits •Petroleum product pipelines •Steam pipelines that are 12 inches in diameter (carrier pipe diameter) or greater Sound Transit will continue to coordinate with the City of Seattle regarding utility relocations and permitting of relocations in public right-of-way.

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333	Utilities	4.3.15-3, 4.2.15-3	4.2.15.4.1, 4.3.15.4.1	Justin Panganiban	SDOT Street Use	The analysis is incomplete. Minor utilities may incur costs, relocation challenges (if not feasible to relocate utilities in adjacent ROW or private property) and/or restoration work as a project impact, and should be encompassed in the DEIS	All (Systemwide)	See response to comment 332.
334	Technical Report: Transportation	6-22, 6-23	6.3.2.2	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Where the DEIS identifies closure of crosswalk or pathway, and a specific alternative path/crosswalk for access, include distance/time taken to get to alternate crossing locations. This is done in some sections of the DEIS (such as on Page 6-49 of the Technical Report), but not in all sections.	West Seattle (DUW, DEL, WSJ)	In locations where a specific detour route has been identified, the potential change in travel distance for non-motorized travelers under the preferred alternative is documented in the Final EIS. The specific locations of some detours will not be finalized until the contractor is engaged.
335	Technical Report: Transportation	4-3, 4-6, 4-71, 4-72, 4-74	Table 4-1, Table 4-2, Table 4-4, Table 4-30, Table 4-31, Table 4-32, Table 4-33	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Beginning with Table 4-1, the table denotes presence of bike lane and sidewalk along local roadway segments. Is 'bike lane' inclusive of all facility types, and can information be provided on the length and facility type(s) (i.e. protected, in-lane, etc.)? Additionally, how is presence of sidewalk measured (i.e. does it capture any gaps in sidewalk coverage, does it count if sidewalk is only on one side of the street etc.)	All (Systemwide)	Text added to clarify additional information about non-motorized facilities are in Section 6.2, Affected Environment, of Chapter 6, Non-motorized Facilities, in Appendix N.1.
336	Technical Report: Visual	2-30	Figure 2-7f	Justin Panganiban	SDOT Street Use	An existing sidewalk is present on the south side of Genesee St that appears to be removed in the DEL-3 rendering. We expect major pedestrian mobility impacts that have not been accounted for if the guideway precludes the ability to build a sidewalk there.	West Seattle (DUW, DEL, WSJ)	The simulation of Alternative DEL-3 is correct as shown per the proposed design for this alternative. The proposed design shows the sidewalk on the north side of the street widened relative to the existing sidewalk.
337	Ch 3 Transportation Environment and Consequences	3-38, 3-41, 3-113	3.7.3.1, 3.7.4, 3.15.4	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements is missing. The Standard Plans for Municipal Construction apply whenever any public or private construction is performed within the Rights-of-Way. Streets Illustrated and the Right-of-Way Opening and Restoration Rules (which inform potential restoration in the R.O.W. as a result of construction impacts) point to these drawings, and R.O.W. would need to be built to these standards	All (Systemwide)	Citations in the Final EIS Section 3.11.6.4 were reviewed and updated as appropriate. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
338	Technical Report: Transportation	6-32, 6-51, 6-12, 6-9, 6-24, 6-32	6.4.2.2, 6.4.3.1, 6.1.1, 6.3.2.2, 6.3.3.1, 6.4.2.2,	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements is missing. The Standard Plans for Municipal Construction apply whenever any public or private construction is performed within the Rights-of-Way. Streets Illustrated and the Right-of-Way Opening and Restoration Rules (which inform potential restoration in the R.O.W. as a result of construction impacts) point to these drawings, and R.O.W. would need to be built to these standards	All (Systemwide)	Citations in the Final EIS were reviewed and updated as appropriate. See also responses to comments 305 and 328.
339	Ch 3 Transportation Environment and Consequences	3-38, 3-41, 3-113	3.7.3.1, 3.7.4, 3.15.4	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements should be updated. Revise language to include "at time of permitting", and remove any references to dates (i.e. Streets Illustrated 2020). Street Illustrated design standards, as well as other applicable documents that inform project requirements, may be updated prior to when the project goes in for permitting and would be held to those requirements	All (Systemwide)	See response to comment 337. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
340	Technical Report: Transportation	6-32, 6-51, 6-12, 6-9, 6-24, 6-32	6.4.2.2, 6.4.3.1, 6.1.1, 6.3.2.2, 6.3.3.1, 6.4.2.2,	Justin Panganiban	SDOT Street Use	References to local codes citing minimum requirements should be updated. Revise language to include "at time of permitting", and remove any references to dates (i.e. Streets Illustrated 2020). Street Illustrated design standards, as well as other applicable documents that inform project requirements, may be updated prior to when the project goes in for permitting and would be held to those requirements	All (Systemwide)	Citations in Chapter 6 of Appendix N.1, Transportation Technical Report were reviewed and updated as appropriate. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
341	Ch 5 Cumulative Impacts	5-20	5.4.12	Steve Hou	SDOT Street Use	The analysis is incomplete. Several significant impacts have not been identified. DEIS needs to address long term impacts to the slope stability, such as vibration, etc.	All (Systemwide)	Request is unclear about what impacts the reader feels are missing. The purpose of Chapter 5 is to evaluate cumulative impacts of the proposed project in combination with other past, present, and reasonably foreseeable projects. Impacts from the proposed project are covered in Chapters 3 and 4.
342	Utilities	4.3.11-6	4.3.11.3.5	Steve Hou	SDOT Street Use	The analysis is incomplete. Several significant impacts have not been identified. In the Smith Cove segment, ensure City subsurface drainage system installed from W Garfield St landslide mitigation project at east side of Magnolia bridge ramp will not be impacted by the project.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
343	Appendix J - Conceptual Design Drawings	65	B05-ASP100	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: The proposed bicycle storage shown at back of sidewalk on Pine Street in DT-1 is likely not appropriate with density of pedestrians at this location, and will require further review and discussion. This applies to any high ped-volume location where bicycle storage may be proposed to be located in the R.O.W.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
344	Appendix J - Conceptual Design Drawings	55, 58, 62, 65, 69, 73	B05-ASP700, B02-ASP300, B02-ASP700, B05-ASP100, B02-ASP100, B07-ASP100	Justin Panganiban	SDOT Street Use	The analysis is incomplete. It does not appear that station footprints on 6th Ave allow for sidewalk widths required downtown under Map 1C in SMC 23.49, or with guidance found in Streets Illustrated. Reference this section of the code when reviewing all downtown station sidewalk widths.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
345	Appendix J - Conceptual Design Drawings	79	B09-ASP100	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is inaccurate. The channelization on Dexter Ave at the station entrance for DT-1 does not match current channelization and locates transit and paratransit loading inside the bike lane, which is currently at the curb. This is not a best practice, and the project should evaluate conflicts this arrangement may lead to, and propose additional improvements to minimize mode conflicts	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
346	Appendix J - Conceptual Design Drawings	35	B01-ASP100a	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. CID-2a is missing a reference to 2-way PBL on west side of 5th Ave next to existing light rail plaza in the base map, and may impact planned improvements for multimodal integration.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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347	Appendix J - Conceptual Design Drawings	52	L50-CYX103	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Provide typical cross-sections for Delridge Way (only shown for Genesee St) to illustrate DEL-3 and DEL-4. Guideway column placement may impact multiple aspects of R.O.W. (sidewalk, utilities, intersections)	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
348	Appendix J - Conceptual Design Drawings	52	L50-CYX103	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Provide typical cross-sections for Genesee St showing placement of guideway columns on the north side of Genesee in DEL-2B. Guideway column placement may impact multiple aspects of R.O.W. (sidewalk, utilities, intersections)	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
349	Appendix J - Conceptual Design Drawings	All cross sections	All cross sections	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Provide typical dimension for "column buffers" wherever the guideway column is located on both sidewalks and medians. References to typical 10x10 footprint of guideway columns from 2.1.1.1 of DEIS should be called out in these drawings as a point of reference on how wide these column buffers will be in order to accommodate columns	West Seattle (DUW, DEL, WSJ)	Please see scale provided on cross section drawings. The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
350	Appendix J - Conceptual Design Drawings	All cross sections	All cross sections	Justin Panganiban	SDOT Street Use	Cross-sections throughout the drawing set should represent typical above-ground utilities between existing vs. proposed so extent of impacts to utility relocations within the R.O.W. are clear and what an appropriate mitigation might be (placed on private property, separate R.O.W., etc.)	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
351	Appendix J - Conceptual Design Drawings	133	L50-CYX115	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Provide typical cross-section for IBB-1a and IBB-1b showing 14th north of NW 51st St when the guideway shifts to parcels along the east side of 14th. Guideway column placement may impact R.O.W. sidewalk cross-section.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
352	Appendix J - Conceptual Design Drawings	52	L50-CYX103	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Cross-section for DEL-1a, DEL-2a, DEL-3, and DEL-4 shows the sidewalk removed on the south side of Genesee St (arterial) and expect major pedestrian mobility impacts that have not been accounted for if the guideway precludes the ability to build a sidewalk there. Confirm status of sidewalk.	West Seattle (DUW, DEL, WSJ)	Alternatives DEL-1a and DEL-3 would remove the sidewalk on the south side of Southwest Genesee Street. The proposed design shows the sidewalk on the north side of the street widened relative to the existing sidewalk, and crosswalks would be provided at Southwest Avalon Way and 26th Avenue Southwest to access destinations on the south side of the street at these locations. A crosswalk would also be provided for any bus stops on the south side of the road. Other alternatives would maintain the sidewalk on the south side of the road. See Sections 3, Transit and 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report of the Final EIS for more information.
353	Appendix J - Conceptual Design Drawings	8	L50-CYX107	Justin Panganiban	SDOT Street Use	The analysis is incomplete. ADA improvements (including curb ramps) and other restoration requirements may be triggered by relocation of 230kv transmission poles along 6th Ave between Massachusetts St and substation south of Spokane St	SODO/CID	This level of detail is beyond conceptual design. Sound Transit would meet applicable codes and will continue to work with the City during final design.
354	Appendix J - Conceptual Design Drawings	12	W01-ASP100	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Unclear what the safety and operational tradeoffs are of consolidating paratransit, pick-up/drop-off, bus pickup, and layover on a single loop off of single street (SODO-1b and SODO-2) vs. separate drop-off accessed off of 4th and 6th (SODO-1a) in the DEIS.	SODO/CID	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Chapter 3, Transit, of Appendix N.1, Transportation Technical Report, was revised to include more detail on pick-up/drop-off operations at the SODO Station.
355	Appendix J - Conceptual Design Drawings	9	W01-ASP700	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Potential safety conflicts are present if transit and paratransit loading directly fronts SODO Trail in SODO-2, and appropriate mitigations may need to be identified if this alternative is carried further.	SODO/CID	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
356	Appendix J - Conceptual Design Drawings	115	B13-ASP700	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Prospect Street Station/Central Interbay Alternative (SIB-3) locates pick-up/drop-off adjacent to busy freight route, as well as across the street. If this alternative is carried further, loading areas need to be relocated.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
357	Appendix J - Conceptual Design Drawings	44	L50-GSP423	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Guideway and station within the Delridge Way R.O.W. in DEL-3 will likely trigger utility relocations and ADA sidewalk and intersection improvements along a substantial portion of Delridge Way	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.

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358	Appendix J - Conceptual Design Drawings	44	L50-GSP323	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Provide typical cross-section for Andover St and Avalon Way in the Andover Station alternatives (DEL-5) showing how the placement of guideway columns on the median affect the R.O.W.	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
359	Appendix J - Conceptual Design Drawings	76	L50-CYX102	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Bike lanes are built on only one side of Fauntleroy and are not grade-separated in WSJ-2. Proposed cross-section would potentially preclude opportunity to rebuild Fauntleroy SW with planned raised protected bike lanes on both sides of street per the Fauntleroy SW Boulevard Project	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. The project as listed as an assumed project in Attachment N.1A, Transportation Technical Analysis Methodology, of Appendix N.1, Transportation Technical Report. Sound Transit would coordinate with the City on roadway design if this alternative were selected as the project to be built.
360	Appendix J - Conceptual Design Drawings	General	General	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. For on-street parking spaces that are proposed to convert into pick-up/drop-off, confirm that the quantities in the DEIS are accurately reflected in Appendix J drawings. Allocated zones should be shown explicitly and consistently across different alternatives (parking space footprints are marked in some alternatives, and not others).	All (Systemwide)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Station design drawings have been updated for the Final EIS and the parking analysis of the Final EIS reflects these designs.
361	Appendix J - Conceptual Design Drawings	General	General	Justin Panganiban	SDOT Street Use	For consistency across ST3 planning documents, Legend/key should use "Station Footprint" or "Station Limit-of-Work" (or other term) rather than "Station Area Footprint". Station Area references the 1/2 mile planning area around each station.	All (Systemwide)	This has been changed to "Station Operations Footprint" in the Final EIS.
362	Appendix J - Conceptual Design Drawings	General	General	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Bike storage footprints vary between stations without rationale of how bike quantity and storage sizing is determined (i.e. Smith Cove is tiny, Midtown is missing bike storage, Avalon takes up a small footprint within a much larger parcel, CID's bike storage takes up three parcels east of the station entrance, Westlake is located along sidewalk frontage zone). Provide estimated parking quantities per station and describe basis of design for siting bike facilities.	All (Systemwide)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. See response to comment 310.
363	Appendix J - Conceptual Design Drawings	57	W03-ASP400	Justin Panganiban	SDOT Street Use	The conceptual drawing does not capture project impacts: Passenger loading that does not front station entrances may encourage midblock crossings and may require ADA or other crossing treatments. For example, passenger loading midblock on south side of Dakota St (in DEL-3 and DEL-4) opposite station appears to incentivize or encourage midblock pedestrian crossings.	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. See Section 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report, for more information on Americans with Disabilities Act facilities and access.
364	Appendix J - Conceptual Design Drawings	9, 10, 12, 14,	W01-ASP700, W01-ASP1200, W01-ASP100, W01-ASP600	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Several alternatives at SODO Station propose new roadway loops for pick-up/drop-off, paratransit, and transit loading. These new intersections may require new/upgraded traffic infrastructure for mobility and pedestrian crossings, and it is unclear if these roadway loops are sized appropriately for frequency of transit and pick-up/drop offs during peak hours.	SODO/CID	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Please see updated drawings in Appendix J and description of Preferred Option SODO-1c in Chapter 2, Alternatives Considered, of the Final EIS. Station designs reflect coordination with the City and Metro, and Sound Transit will continue to coordinate with the City and Metro during final design.
365	Appendix J - Conceptual Design Drawings	111, 113, 115	B13-ASP100, B13-ASP300, B13-ASP700	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Several alternatives at Smith Cove Station propose new roadway loops for pick-up/drop-off, paratransit, and transit loading. These new intersections may require new/upgraded traffic infrastructure for mobility and pedestrian crossings, and it is unclear if these roadway loops are sized appropriately for frequency of transit and pick-up/drop offs during peak hours.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
366	Appendix J - Conceptual Design Drawings	General	General	Justin Panganiban	SDOT Street Use	The information necessary to identify impacts and compare alternatives is missing. Site plans should make distinction between retained bus loading locations and proposed new bus loading locations.	All (Systemwide)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Station drawings show proposed bus loading areas based on coordination with Metro.

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367	Parks and Recreational Resources	229	4.2.17.1.2	Joel Miller	SDOT Street Use	The analysis fails to account for Shoreline Street End (SSE) sites within the project area of the Duwamish crossing. This includes the SW Hinds St SSE, the Chelan Ave SW SSE, the SW Spokane ST SSE sites. The SW Spokane St sites, also called the fishing bridge, are well-used areas for community fishing and water exploration.	West Seattle (DUW, DEL, WSJ)	The EIS is only including/assessing impacts to those improved street-ends that have public access. As such, the 22nd Avenue Southwest Shoreline Street-end is included, but not the ones noted in the comment. The Spokane Street fishing bridge has been added as a social resource in Section 4.4, Social Resources, Community Facilities, and Neighborhoods.
368	Parks and Recreational Resources	146	4.2.9.3.3	Joel Miller	SDOT Street Use	This analysis fails to account for potential impacts to the planted pollinator garden that is part of the Spokane St Shoreline Street End. Shading or other changes could have negative outcomes for this pollinator garden.	West Seattle (DUW, DEL, WSJ)	See response to comment 367. Only street-ends that are "improved" with public access are included as recreational resources (Spokane Street Shoreline Street-end is not one of these).
369	Ch 3 Transportation	3-34	3.6.3	Jonathan Williams	SDOT T&M	Report states " Consistent with all existing light rail stations in Seattle, Sound Transit expects that the City of Seattle would manage parking within the vicinity of new stations by placing restrictions (including time limits or permit restrictions) where they do not already exist." which is not true at SODO or Stadium stations	SODO/CID	Text has been updated to read "consistent with most existing light rail stations..." in the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
370	Ch 3 Transportation	3-35	3.6.3.1	Jonathan Williams	SDOT T&M	ST defines the potential "walkshed" for hide and ride users as 0.25 miles from the station, but on page 3-37 defines the walkshed of a station to be 0.5 miles. Using consistent methodology, if users will walk 0.5 miles to the station, this walkshed should also constitute the area of review for potential hide and ride impacts.	All (Systemwide)	Previous parking studies prepared as part of the Records of Decision for the Central Link, University Link, and Northgate Link extensions used a 0.25-mile study area around stations. Follow-up studies, conducted after the start of operations, have confirmed that parking restrictions made within 0.25 mile are sufficient to control most hide-and-ride impacts. While some people may park and walk beyond the 0.25-mile radius, it is a subset of overall hide-and-ride transit riders and the effect on any particular block outside of that radius is dispersed limiting potential impact. Therefore, a 0.25-mile radius study area for the Final EIS is appropriate. Mitigation measure recommends that pre-opening and post operation studies around all stations be performed to assess conditions that exist in the future and implement appropriate restrictions at that time.
371	Appendix J - Conceptual Design Drawings	169	B02	Jonathan Williams	SDOT T&M	This figure and others depict Sound Transit Maintenance vehicle spaces in the public ROW where no curb parking exists and sidewalk width requirements limit curb or channelization modification. If this level of parking access is required at station entrances, Sound Transit must identify off-street locations to serve this function and remove these assumed ROW spaces from project documents.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
372	Appendix J - Conceptual Design Drawings	172	B02	Jonathan Williams	SDOT T&M	The figure depicts Sound Transit Maintenance/Service vehicle parking impacts/removes an existing load zone that has no identified relocation area. Sound Transit cannot assume that their service/maintenance vehicle stalls can be met within the public right-of-way, particularly downtown.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
373	Appendix J - Conceptual Design Drawings	165	B02	Jonathan Williams	SDOT T&M	This figure calls out paratransit loading designated on a street segment with 11% running slope, and an alternate location or other modifications may need to be evaluated.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
374	Ch 3 Transportation	3-56	3.11.6.3	Jonathan Williams	SDOT T&M	Mitigation measure(s) for identified impacts are missing from the DEIS. Page 3-56 indicates that Sound Transit expects that construction employee vehicles would be limited only to the number that could park within the construction staging area, but then notes they may park on-street during heavy construction periods which may impact local curb space. Mitigation measures for construction worker parking during "heavy construction periods" may potentially include worker shuttle service or additional off-street accommodation, which are not described.	All (Systemwide)	Text related to construction worker parking and mitigation has been clarified.
375	Ch 3 Transportation	3-98	3.13.3.2	Jonathan Williams	SDOT T&M	The methodology does not capture traffic impacts from utilization of private pay lots as a mode of access and generation of vehicle trips. Experience from other end-of-line stations (i.e. University of Washington) indicates that transit ridership will lead to increased utilization of private pay lots where available.	All (Systemwide)	While there is not a separate public or private park & ride mode in the trip generation forecasts, they do account for all the expected travel demand as anticipated by the Sound Transit ridership model, and are captured in the pick-up/drop-off category. Some riders may use private parking lots near stations, but given the relatively low numbers of pick-up/drop-off trips and distributed nature of private pay lots, this is not expected to affect traffic operations.
376	Ch 3 Transportation	3-86	Table 3-20	Jonathan Williams	SDOT T&M	Methodology to determine pick up / drop off volumes, and subsequent outcomes is unclear and appears inconsistent. Appendix N1 (p 4-17) references the volume source as the not-provided "Sound Transit Incremental Ridership Model." Page 6-40 of N1 says at the Westlake station, "the number of additional riders on the surface streets would be limited; these people would be walking, biking, or being picked up or dropped off." Yet table 3-20 in Chapter 3 indicates building new light rail to Ballard would add zero drop offs at Westlake station even though ridership increases by 40%, and is unclear from the methodology why no pick up or drop off trips would be added. This methodology needs to be transparently provided to allow for understanding need for pick up / drop off accommodations on City streets where curb space may be limited or not available.	All (Systemwide)	The mode of access forecast methodology uses a combination of ridership model outputs and local travel survey data to estimate trips by mode to and from stations. This methodology was developed prior to the WSBLE Draft EIS and reviewed and approved by City of Seattle staff in a series of workshops. In the WSBLE Draft EIS, mode of access forecasts were rounded to the nearest 50, which is why some modes were presented as having zero trips in certain locations. In the West Seattle Link Extension Final EIS, mode of access forecasts with values less than 100 were rounded to the nearest 10. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
377	Ch 3 Transportation	3-24, 5-1, 3-104	Table 3-25	Jonathan Williams	SDOT T&M	In multiple places, the report says there are no unrestricted parking spaces within 0.25 miles of the Chinatown ID station, but this is incorrect. There are unrestricted parking spaces on Lane S St and Maynard Ave S within 1,000 feet of proposed alternatives. Please include in analysis and potential mitigation.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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378	Ch 3 Transportation, Technical Report: Transportation	5-16, 3-36	5.2.3.1, 3.6.4	Jonathan Williams	SDOT T&M	The information necessary to identify impacts and compare alternatives is missing. Relocation of existing designated ADA spaces or commercial load zones need to be explicit about proximity to specific destinations it serves, as well as curb ramp proximity, as parameters for relocation. The study does not specifically disclose where existing ADA spaces or commercial zones are - simply including them with other more-flexible restricted spaces. It is not possible then to understand impacts or if mitigation exists.	All (Systemwide)	Americans with Disabilities Act parking stalls and load zones that currently exist in construction areas have been identified in the Final EIS. Per mitigation measures, Sound Transit will work with the City to relocate parking stalls affected by construction activities, and temporary or permanent relocation options will need to meet accessibility requirements.
379	Appendix J - Conceptual Design Drawings	55, 57, and others	W03-ASP200, W03-ASP400, and others	Jonathan Williams	SDOT T&M	Most station-adjacent ADA accessible loading areas (paratransit) are shown with a recessed curb, presumably to accommodate a 5' access aisle in line with PROWAG / Access board guidelines, but no such access aisle is shown along Columbia in DT-1. If implemented on Columbia, it would narrow the distance between recessed curb and property line to only 7'. Narrower sidewalks and added pedestrian volumes here would have significant impact on pedestrian level of service and safety and would not be consistent with minimum requirements for sidewalk widths in downtown Seattle. Project team should clarify design intent of these areas to clarify where sidewalk space will be reduced	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
380	Ch 3 Transportation	Page 3-10	3.3.2	Lizzie Moll	SDOT	The methodology or information used is outdated. Updated information should state that alternative CID-1a* could [not would] prohibit vehicles from traveling north along 4th Avenue, since there has been no transportation management plan developed for this area and with alternative CID-1a* there will be a partial closure south of Jackson (not a full closure).	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
381	Appendix J - Conceptual Design Drawings			Lizzie Moll	SDOT	The methodology does not capture complete impacts of the project including: sidewalk and ADA pedestrian infrastructure improvements necessary to connect paratransit loading areas and bus loading areas to new station entrances. Having accessible pathways is essential to the function of the project and should be included in the WSBL project.	All (Systemwide)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Section 3.7, Affected Environment and Impacts during Operation – Non-motorized Facilities, of Chapter 3, Transportation Environment and Consequences, and Section 6.3.2, Build Alternatives, in Chapter 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report, of the Final EIS describe how the project would be designed to meet Americans with Disabilities requirements.
382	Ch 3 Transportation	Page 3-109	3.15.3.1	Lizzie Moll	SDOT	Mitigation measures for event surges are missing from the DEIS including impacts of elevator only stations versus stations that can also be accessed by stair or escalator. Study impacts on community, transportation operations, and right-of-way impacts of surge events on CID-1b and CID-2b options. Longer queues for elevators during major surge events or bus-light rail or rail-light rail transfers could necessitate additional entrances to disperse capacity. Include in methodology the time it will take for folks to get on an elevator at each entrance as well as surge numbers. This should include major stadia events as well as the arrival of a full Sounder train.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
383	Appendix G - Environmental Justice	Page 5-31	Table 5-4	Lizzie Moll	SDOT	Mitigation measure for pedestrian Level of Service (L.O.S.) is not described under "Best Management Practices and Mitigation". Consider pedestrian L.O.S. as studied in Chapter 3 to inform pedestrian mitigation needs.		No impacts to pedestrian L.O.S. were identified; therefore, no mitigation is proposed. Please see Chapter 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report.
384	Appendix J - Conceptual Design Drawings	Page 137-138		Lizzie Moll	SDOT	The methodology does not capture complete impacts of the project including: the impact on a person with disabilities needing to take three elevators to reach the station platform. Especially during surge events, the impact on customer experience, may be unacceptable. Also not captured in Appendix G: Environmental Justice.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
385	Appendix J - Conceptual Design Drawings			Lizzie Moll	SDOT	The analysis is incomplete. Impacts on public right-of-way are beyond what is indicated for utility relocation necessary by the project. Include areas for relocating utilities as part of indicated "construction limits".	All (Systemwide)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. Please see Section 4.15, Utilities, for information about utility conflicts with major utilities and how Sound Transit would coordinate with utility providers as design advances.
386	Ch 3 Transportation	Page 3-114 to 3-117		Lizzie Moll	SDOT	The analysis is incomplete. Significant impacts of introducing new points of interest (station entrances) have not been factored into safety impacts for non-motorized travel. Consider the introduction of a new destination with SDOT's Vision Zero Bicycle and Pedestrian Safety Analysis and key findings: http://www.seattle.gov/Documents/Departments/SDOT/VisionZero/SDOT_Bike%20and%20Ped%20Safety%20Analysis_Ph2_2420(0).pdf	All (Systemwide)	Added safety assessments of project design elements and addressed Vision Zero priority locations in the Final EIS.
387	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to pedestrian safety in the walkway proposed between Westlake Center and proposed West station entrance have not been identified. It is currently proposed seemingly without CPTED-informed design, with narrow walkway and no visual permeability of the head house along diagonal face.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
388	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to safe access to existing bicycle infrastructure has not been identified, including how the proposed bicycle facilities at station locations will be connected with proposed bicycle facilities (as part of the Pike/Pine Renaissance) on Pike and Pine between 4th and 6th. These are essential for bicycle safety and connecting people on bicycles to the stations and should be included as part of the WSBL project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
389	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing are sidewalk dimensions outside of station entrances. Provide standard space/frontage zone at all entrances in downtown. Provide at least 18' sidewalks at frontage, 24' wide sidewalks at station entrances, and 28' at bus integration locations. Provide high transparency at street façade. These items are essential for wayfinding, pedestrian safety and comfort and should be include as part of the WSBL project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
390	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to future street design and operation are not represented. Integrate/coordinate special design treatments with Pike/Pine Renaissance project. All streets impacted by construction will be reconstructed to an agreed upon design between SDOT and Sound transit. Pike and Pine between 4th and 5th are pedestrian priority streets, therefore restrict vehicle access. These impacts and reconstructions should be included within the WSBLE project area.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
391	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is a description of the type and location of bike parking facilities. It is essential to provide sufficient end of trip bicycle parking facilities that are conveniently accessed off of Pike St and Pine St to support safe and convenient bicycle-rail transfers. Provide bicycle parking, both long term bicycle storage as well as on street short term parking on/near Pike and Pine near station entrances. Provide bicycle parking at 5th and Pike headhouse on north side. This bicycle parking should be included as part of WSBLE project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
392	Appendix J - Conceptual Design Drawings	180		Ellie Smith	SDOT	The analysis is incomplete. Missing is analysis of the impact of number and location of station entrances from the street, particularly when station entrances are not provided on all frontages. Examples include Denny, Westlake, and 9th Ave for the north headhouse in addition to Blanchard, 8th, and Westlake. Direct access to the station will alleviate impacts of pedestrian congestion on downtown's congested sidewalks. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
393	Appendix J - Conceptual Design Drawings	180		Ellie Smith	SDOT	The analysis is incomplete. Missing is analysis of the impact of not including station entrances on both sides of arterial streets. Explore adding entrance on north side of Denny at Discovery Center with new Vulcan development and on the east side of Westlake at the Whole Foods Plaza. This is essential to accommodate PM and AM peak commuter surge, improve pedestrian safety and reduce potential vehicular and pedestrian/bicycle conflicts at intersections and should be included as part of WSBLE project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
394	Appendix J - Conceptual Design Drawings	180		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing are sidewalk dimensions outside of station entrances. Provide standard space/frontage zone at all entrances in downtown. Provide at least 18' sidewalks at frontage, 24' wide sidewalks at station entrances, and 28' at bus integration locations. Provide high transparency at street façade. These items are essential for wayfinding, pedestrian safety and comfort and should be include as part of the WSBLE project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
395	Appendix J - Conceptual Design Drawings	180		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is a description of the location of a safe all ages and abilities bicycle connection to existing bicycle facilities on 9th Ave and include as part of the WSBLE project. This connection is essential for people to safely bicycle to the station.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
396	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The analysis is incomplete. Missing is analysis of the impact of not including station entrances on only one side of key streets. This is essential to enhance the safety of the pedestrian connection to the station and avoiding requiring crossing Denny Way and Thomas St. This also reduced impacts to downtown's congested sidewalks. An access point on both sides of key streets should be included as part of the WSBLE project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
397	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is clarity on if station footprints are designed to accommodate adequate publicly available space for bicycle and micromobility parking for customers accessing WSBLE stations without impinging on required pedestrian clear zones along station frontages or impacting the pedestrian network. Sound Transit's approach towards accommodating bicycle and micromobility parking should be included as an essential element of the WSBLE project for safe multimodal access to and from WSBLE stations. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
398	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is clarity on how Terry and Denny intersection would accommodate pedestrians and bicyclists accessing the light rail station. Improvements are essential for bicyclist and pedestrian access to the station and should be included as part of the WSBLE project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
399	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing are sidewalk dimensions outside of station entrances. Provide standard space/frontage zone at all entrances in downtown. Provide at least 18' sidewalks at frontage, 24' wide sidewalks at station entrances, and 28' at bus integration locations. Provide high transparency at street façade. These items are essential for wayfinding, pedestrian safety and comfort and should be include as part of the WSBLE project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
400	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to a publicly accessible hill climb between Terry St and John St should be included as an essential element of the WSBLE project. This would provide accessible/step free/level pedestrian access to and from the station to the surrounding neighborhood, and relieve pedestrian loading on sidewalks immediately adjacent to the station.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
401	Appendix J - Conceptual Design Drawings	183		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to pedestrian and bicyclist space and access on Terry Ave is not included. Reconstructing Terry Ave per Seattle's Street Concept plan guidelines is essential to provide sufficient pedestrian and bicyclist space and a 'shared street' environment and should be included as part of the WSBLE project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
402	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to adequate access and connection to key bicycle and pedestrian facilities from the Seattle Center are not addressed. Explore adding entrance off of Thomas St. to facilitate strong bicycle/ped connection and serve as main entry for access from Seattle Center. This is essential for connection from planned Thomas St Green Street and should be included in the WSBLE project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
403	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing are sidewalk dimensions outside of station entrances. Provide standard space/frontage zone at all entrances in downtown. Provide at least 18' sidewalks at frontage, 24' wide sidewalks at station entrances, and 28' at bus integration locations. Provide high transparency at street façade. These items are essential for wayfinding, pedestrian safety and comfort and should be include as part of the WSBLE project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
404	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is a description of the type and location of bike parking facilities. It is essential to provide sufficient end of trip bicycle parking facilities that are conveniently accessed off of Dexter at north headhouse This is essential because Dexter is a major bicycle route that connects to the station. (See also similar comment directed at all stations)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
405	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to adequate and necessary pedestrian and bicyclist facilities at the intersection of Harrison and Dexter are not identified. This is essential for safe bicycle access to bicycle and pedestrian facilities on Dexter and should be included as part of the WSBLE project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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406	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to adequate and necessary pedestrian and bicyclist facilities at the intersection of Harrison and Dexter are not identified. This is essential for safe bicycle access to bicycle and pedestrian facilities on Dexter and should be included as part of the WSBL project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
407	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to access to the station are not accurate because it does not reflect the fact that Thomas Street is a Green Street with a Street Concept Plan. Identified impacts should align with planned street improvements along Thomas between 6th and 7th and be included as part of WSBL project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
408	Appendix J - Conceptual Design Drawings	186		Ellie Smith	SDOT	The analysis is incomplete. Impacts related to access to the station do not account for the use of the existing plaza to the west of the southern headhouse. Reconfiguring that existing plaza is essential to create sufficient space to accommodate surge volumes from major events at the Seattle Center and should be included as part of the WSBL project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
409	Appendix J - Conceptual Design Drawings	190		Ellie Smith	SDOT	The information necessary to identify impacts is missing. Missing is a description of how the station will accommodate major event surges from Seattle Center (e.g., there may need to be wider sidewalks, and larger openings at entrances). This is essential for safe access during events and should be included as part of WSBL project. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
410	Technical Report: Transportation	6-1		Ellie Smith	SDOT	The methodology does not capture complete impacts of the project because the proximal bicycle and pedestrian analysis is limited to one block beyond station entrance. There may be instances where improvements are necessary beyond 1 block from the station, such as at key intersections, bus stop locations/connections, connections to bicycle network.		No capacity constraints were identified within one block of the stations, so no further analysis was needed beyond that distance.
411	Technical Report: Transportation	6-1		Ellie Smith	SDOT	The methodology does not capture complete impacts of the project because the bikeshed is limited to 1.5 miles. FTA recommended methodology states 3 miles as appropriate bikeshed.		The Final EIS used 10-minute sheds to provide context on the availability of bike infrastructure in the vicinity of stations. A detailed inventory of bike infrastructure outside the project area is beyond the scope of this environmental impact analysis. However, all potential impacts to non-motorized infrastructure were disclosed regardless of location. While bicycle and trail improvements within a 3-mile radius of transit stations can be eligible for grants through FTA, they do not impose a minimum study area or a required set of non-motorized access improvements for grant-eligible projects.
412	Technical Report: Transportation	6-1		Ellie Smith	SDOT	The methodology does not capture complete impacts of the project because the proximal bicycle and pedestrian analysis is limited to only the presence of facilities. The methodology should also assess standard or quality of facility i.e. whether it meets City of Seattle standards for width, design, and accessibility etc. Current analysis only reviews the presence or absence of facility which is an inadequate assessment.		See response to comment 411. The Final EIS was updated to include a map within the 10-minute walkshed (0.5 mile) of the preferred alternative showing sidewalk condition. Curb ramp condition was also reviewed and is described in the text. No capacity constraints were identified within one block of the stations so no further analysis was needed beyond that distance. Detailing the width and design for all facilities was outside the scope of the Final EIS. To the extent feasible, Sound Transit follows local design guidance and requirements in the design of the project and when restoring/replacing other affected facilities. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
413	Ch 3 Transportation	Page 3-133	3.19.3.2	Lizzie Moll	SDOT	This information used is outdated. Please refer to King County Metro's comments from the ADEIS to estimate the number of bus routes predicted on 4th Avenue South.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
414	Ch 3 Transportation	Page 3-135	3.19.5	Lizzie Moll	SDOT	The information presented is inaccurate and unfounded as stands. Diverting volumes does not determine increase of collisions. If there is a study that shows this is true, please include. Collisions are mostly linked to speed and roads that are designed for high speeds. (See Vision Zero principles)	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
415	Acquisitions, Displacements, and Relocations	Page 4.3.1-1	Table 4.3.1-1 to table 4.3.1-5	Lizzie Moll	SDOT	The methodology does not capture complete impacts of the project. The tables do not differentiate between properties affected by construction and access to the building will mean temporary closure vs. permanent acquisitions of properties and displacement of businesses and residential units.	All (Systemwide)	See Appendix L4.1, Acquisitions, Displacements, and Relocations, for information on affected parcels related to access. The Final EIS assumes that relocations are permanent unless otherwise noted. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
416	Acquisitions, Displacements, and Relocations	Page 4.3.3-8	4.3.3.3	Lizzie Moll	SDOT	The information necessary to identify impacts and compare alternatives is missing. Some properties are mentioned by name (e.g., Ryerson Bus Base, a Goodwill outlet), while others are not. Be consistent in naming business and employee displacements, especially in the CID where business type is integral to the historic district.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
417	Appendix J - Conceptual Design Drawings	114-147	All CID Options	Jonathan Lewis	SDOT	The methodology does not capture complete impacts of the project. Customers must be able to access both (existing and future CID stations) stations from any entrance. It is essential that customers not be required to travel up to street level and then back down again to transfer between lines to avoid unnecessary pedestrian traffic in a heavily congested area and should be included as part of WSBL project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
418	Appendix J - Conceptual Design Drawings			Lizzie Moll	SDOT	References to local codes citing minimum mitigation requirements is missing for Non-motorized facilities. Therefore, the project is out of compliance with current code and the City will not be able to issue permits. Project limits should include intersection and pedestrian improvements. The City's right-of-way Improvements manual design standards require pedestrian improvements within 1/4 mile of station entrance including tactile warning strips at legal crosswalks, smooth accessible sidewalks within a quarter mile of station entrance, with the minimum dimension of clear unobstructed sidewalk width. See design standards here: https://streetsillustrated.seattle.gov/design-standards/transit/	All (Systemwide)	The Final EIS includes statements that affected facilities would be rebuilt to applicable local and federal standards in Sections 3.7.3, 3.7.4, and 3.11.6.4. Local codes and standards for transportation facilities are also referenced in Chapter 2 of Attachment N.1A of Appendix N.1, Transportation Technical Report.
419	Appendix J - Conceptual Design Drawings	114-147		Lizzie Moll	SDOT	Mitigation measures for identified impacts are missing from the DEIS. The S Weller St connection between Weller Street pedestrian bridge through 6th Ave S is an essential element of the project for pedestrian transfers between Sounder to light rail or for pedestrian access during stadium events. Necessary improvements to this connection should be included as part of the WSBL project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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420	Appendix J - Conceptual Design Drawings	114-147		Lizzie Moll	SDOT	The analysis is incomplete. Impacts to the current light rail plaza at 5th Ave S and S Jackson have not been identified. Include enhancements to the existing light rail plaza in the WSBL project. The existing light rail plaza will be essential for pedestrian access and customer transfers from existing northbound light rail station to Ballard link extension project and for accommodating surges of pedestrians from major events. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
421	Appendix J - Conceptual Design Drawings	139, 142, 145		Lizzie Moll	SDOT	The analysis is not complete. S Jackson St street frontage improvements between and including 4th Ave S and 6th Ave S should be included in the WSBL project as an essential pedestrian connection to the station for bus-light rail transfers and light rail-street car transfers. (See also similar comment directed at all stations.)		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
422	Appendix J - Conceptual Design Drawings	133-135, 136-138		Lizzie Moll	SDOT	The project does not meet the City's Historic District Standards and the placement of vent and egress at Union Station plaza on 4th and Jackson does not capture complete impacts of the project and must be moved. The identified location compromises sight lines for pedestrians and drivers at the intersection. Also refer to Historic District standards.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
423	Appendix J - Conceptual Design Drawings	133-135, 136-138		Lizzie Moll	SDOT	The analysis is incomplete. Study alternative station entrance locations for the western entrance on 4th Ave S. The constrained sidewalk with expected high pedestrian volumes from WSBL station and Sounder station will create pedestrian congestion, especially during major events and when Sounder Trains arrive. Study shifting entrances north to straddle S Jackson. There is potentially more street capacity because 4th Ave is currently one way north of S Jackson and potential for less conflation with pedestrians using the Weller Street bridge. There would still be an opportunity for Sounder integration at the north Sounder entrance		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
424	Appendix J - Conceptual Design Drawings	114-147		Lizzie Moll	SDOT	The analysis is incomplete. The CID station is one of the largest transfer hubs in the Pacific Northwest. Create larger, legible station entrance at existing Central Link entrances to facilitate pedestrian flow to both Link lines.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
425	Appendix J - Conceptual Design Drawings	133, 136		Lizzie Moll	SDOT	The methodology does not capture complete impacts of the project including the increase of passengers transferring below ground between light rail lines and passengers waiting for their train heading south to East Link or West Seattle. Expand the existing southbound platform into the private garden space east of Union Station to accommodate riders heading from S Jackson St to the Ballard Link Extension station mezzanine as well as riders waiting for East Link or West Seattle.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
426	Appendix J - Conceptual Design Drawings	133-138		Lizzie Moll	SDOT	The analysis is incomplete. Several significant impacts have not been identified for pedestrian movement and queuing space on the west side of 4th Ave. Include study of cantilever/partial lidding or full lidding of BNSF tracks for additional pedestrian space for western 4th Avenue entrance for Ballard Link Extension and Sounder customer queuing. Additional pedestrian space on the west side of 4th Ave S is essential for customer safety and should be included as part of the WSBL project.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
427	Appendix J - Conceptual Design Drawings	133, 136		Lizzie Moll	SDOT	The analysis is incomplete. The bus stop on 2nd Ave Extension S is essential for bus/Sounder/light-rail integration and stop improvements should be included in the WSBL project. Additional sidewalk space will be necessary for bus waiting area as well as clear pedestrian space for accessing the station entrance on the west side of 4th Ave.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
428	Appendix J - Conceptual Design Drawings	133, 136		Lizzie Moll	SDOT	The analysis is incomplete. Include a study of additional pedestrian crossing at 2nd Ave Ext S and 4th Ave S for improving L.O.S. F for crossing at S Weller St (as referenced in Chapter 3: Transportation).		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
429	Appendix J - Conceptual Design Drawings			Lizzie Moll	SDOT	The analysis is incomplete for determining design. Include areas for both long term and short term bicycle and scooter parking for personal as well as shared fleets/micromobility devices. Define parking areas that avoid impacts on the pedestrian network, sidewalks, and plazas adjacent to station entrances.		Each station would have a dedicated bicycle storage area. The primary criteria for siting bike storage areas is that they need to be located close to the nearest planned or existing bike path for the convenience of the users. Short-term bike storage (bike racks) can be located within the public right-of-way or within the station plaza. Long-term bike storage (bike rooms or lockers) would have weather protection and would be adjoining or located in the station entrance. Some stations have bicycle storage at each station entrance.
430	Appendix J - Conceptual Design Drawings			Lizzie Moll	SDOT	The analysis does not capture complete impacts of the project. All streets impacted by construction will be reconstructed to an agreed upon design between SDOT and Sound Transit. These impacts and reconstructions should be included within the WSBL project area.		The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. The Final EIS includes statements that affected facilities would be rebuilt to applicable local and federal standards in Sections 3.7.3, 3.7.4, and 3.11.6.4 of the Final EIS. Local codes and standards for transportation facilities are also referenced in Chapter 2 of Attachment N.1A of Appendix N.1, Transportation Technical Report.
431	Appendix J - Conceptual Design Drawings	139, 142, 145		Lizzie Moll	SDOT	The analysis does not capture complete impacts of the project. Without a public concourse cut through Union Station, Weller pedestrian connections between 5th Ave S and 4th Ave S and pedestrian connections along S Jackson Street are essential to the WSBL project and light rail to bus or Sounder/Amtrak transfers.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
432	Appendix J - Conceptual Design Drawings	172		Ellie Smith	SDOT	The methodology does not capture complete impacts of the project. Customers must be able to access both (existing and future) stations from any entrance. It is essential that customers not be required to travel up to street level and then back down again to transfer between lines to avoid unnecessary pedestrian traffic in a heavily congested area and should be included as part of WSBL project.		As detailed in Chapter 2, Alternatives Considered, of the Final EIS, most stations assume center platforms but some stations would have side platform stations, which would require passengers to go up or down to change platforms or to transfer to other light rail lines.
433	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Lizzie Moll	SDOT	References to local codes is missing. Therefore, the potential conflict with local controls cannot be determined. Evaluate access to and views of contributing historic buildings and structures in the CID including the more than 40 foot tall tunnel ventilation and vertical circulation structure in front of Union Station and any Environmental Justice impacts.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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434	Ch 3 Transportation	Page 3-101	3.13.4 Mitigation for Operation Impacts	Lei Wu	SDOT	Mitigation measures for addressing identified impacts are missing. Missing are mitigation measures that address intersection vehicle delay at intersections. This section states that 'Sound Transit would continue to work with the City of Seattle and FTA as the Ballard Link Extension project design progresses to minimize project-related intersection delays. Where additional project-related delays are unavoidable, Sound Transit would work with the City of Seattle and FTA to review potential mitigation at intersections identified in Table 3-24, with the intent of either meeting agreed-upon L.O.S. thresholds during the a.m. and p.m. peak hours or attaining a similar vehicle delay as under the No Build Alternative.' Mitigation measures for this impact are missing from this draft EIS. Identify and include effective mitigation measures to address intersection vehicle delay in the EIS.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
435	Ch 3 Transportation	Page 3-108	3.15.3.1 Impacts Common to All Alternatives	Lei Wu	SDOT	The methodology does not capture the complete impacts of this project. This section states that No long-term impacts to bicycle parking are expected under any of the Build Alternatives. This is misleading because biking has been identified as a mode of accessing light rail stations. Accordingly bicycle parking should be identified as impacts; Identify and include effective mitigation to address this impact including clarifying bike parking capacity and access and circulation at light rail stations and ensuring that the capacity to be provided meets the expected demand including those for micromobility.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
436	Ch 3 Transportation	Page 3-116	3.16.3.5 South Interbay Segment	Lei Wu	SDOT	The analysis is incomplete in identifying impacts. Missing impacts are: with Preferred Alternative SIB-1 and Alternative SIB-2, the guideway between West Mercer Place and West Republican Street would cross Elliott Avenue West twice, with Preferred Alternative SIB-1 crossing an additional time south of West Galer Street. These alternatives would place guideway columns within the roadway, requiring elimination of some midblock turns and potentially reducing conflicts. Restriction of mid block turning movements causes property access impacts. Identify those impacts and identify and include effective mitigation measures in the EIS such as improvements at upstream intersections to accommodate U turn.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
437	Ch 3 Transportation	Page 3-125	3.18.4 Mitigation for Operation Impacts	Lei Wu	SDOT	The methodology does not capture the complete impacts of this project. This section states that None of the Ballard Link Extension alternatives would have long-term freight impacts that require mitigation during light rail operations. This statement is misleading as the DEIS identifies impacts to circulation and operations for businesses along this edge of the bay as well local access to businesses located in the Ballard Interbay North end Manufacturing/Industrial Center especially by large trucks. Correct this statement and identify and include mitigation solutions properly address those impacts in the EIS.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
438	Ch 3 Transportation	Page 3-125	3.19 Ballard Link Extension Construction Impacts	Lei Wu	SDOT	The analysis is incomplete in identifying impacts and mitigation measures. All streets impacted by construction will be reconstructed in compliance with City of Seattle codes and regulations. These impacts and specific reconstruction design are in general missing from the EIS. In one specific instance, the EIS is misleading in that the callouts on conceptual design drawings, e.g., L50-CYX115, indicates that roadway and sidewalk reconstruction will replace the surfacing materials in kind. This is misleading because the surfacing materials need to be compliant with what is required per City of Seattle standards. Include and identify reconstruction design compliant with pertinent City of Seattle codes and regulations in the EIS. This is a general comment applicable to all alternatives though the section reference is only for the Ballard Link Extension.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
439	Ch 3 Transportation	Page 3-43	3.8.3.1 Impacts Common to All Alternatives	Lei Wu	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Missing are mitigation measures that address the safety of the transportation system. This section states that "the safety of the transportation system is expected to be minimally affected by the project or improve because of mitigation measures including station access improvements (such as proposed signaled crossings)." This statement is not supported by the identification of effective and specific mitigation measures for alternatives in the EIS. Identify and include effective mitigation measures and improvements for safe station access in the EIS for all alternatives especially preferred alternatives.		The project would be designed to provide safety access and operations for users, and no safety-specific impacts were identified. Therefore, safety-specific mitigation was not proposed. However, mitigation described in Sections 3.4, Affected Environment and Impacts During Operation - Transit, 3.5, Affected Environment and Impacts During Operation - Arterial and Local Street Operations, and 3.7, Affected Environment and Impacts During Operation - Non-motorized Facilities, of the Final EIS would have safety benefits.
440	Ch 3 Transportation	Page 3-43	3.8.3.1 Impacts Common to All Alternatives	Lei Wu	SDOT	The information is missing in identifying impacts of the project. Missing are impacts and mitigation measures related with all alternatives with elevated stations. All elevated alternatives to light rail stations include columns in the roadway that may block sight line in addition to creating space under the elevated guideway, which can hinder safety and convenience to pedestrians and cyclists especially in areas proximate to the station. Identify this impact and identify and include effective mitigation measures, e.g., design to make it appealing for people walking underneath the guideway with good lighting, arts elements, landscaping and appropriate vegetation and trees, to improve safe station access for people walking and bicycling for all elevated alternatives. This comment applies to all alternatives with elevated guideways even though the section reference is for the Ballard Link Extension.		Discussion of safety underneath the South Lander Street overpass has been added to Section 3.8, Affected Environment and Impacts During Operation - Safety, of the Final EIS.
441	Ch 3 Transportation	various	3.12-3.16	Lei Wu	SDOT	The analysis is incomplete in identifying impacts and mitigation measures. Missing are significant impacts and mitigation measures of the Interbay Station at 15th Ave W and W Dravus St. The alternative with the Interbay station at 15th Ave W and W Dravus St has significant deficiencies. First, it straddles Dravus, an already very constrained and busy street, and doesn't provide good opportunities for ADA access, pick-up / drop-off, bicycle connections, or bus transfers. Second, 15th is a freight route with considerable transit and personal vehicular movement as well; the guideway columns along 15th pose a challenge to the movement of those vehicles. Identify and include those impacts and identify and include mitigation measures in the EIS, e.g., via analyzing the station design and location and propose mitigation that alleviate those challenges.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
442	Appendix J - Conceptual Design Drawings	L50-GSP109 - L50-GSP110; B17-ASP100		Lei Wu	SDOT	The methodology does not capture complete impacts of the project. As identified in this DEIS, Alternatives: PREFERRED ELEVATED 14TH AVENUE ALTERNATIVE (IBB-1a) AND ELEVATED 14TH AVENUE ALIGNMENT OPTION (FROM PROSPECT STREET STATION/15TH AVENUE) (IBB-1b) remove significant number of parking spaces. Properly identify impacts of this loss of parking through relevant sections of the EIS and identify and include effective mitigation measures or improvements to address this impact in the EIS via working with City and businesses.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
443	Ch 3 Transportation	page 3-114	3.16.3 Environmental Impacts of the Build Alternatives	Lei Wu	SDOT	The methodology does not capture complete impacts of the project. This section, 3.16.3.1 Impacts Common to All Alternatives, states that 'Light rail design that adheres to both light rail and roadway standards to minimize impacts on transportation safety - Reduction in modal conflicts on the transportation system (such as rail-to-rail transfer activity within the station).' Both points are misleading. Vision Zero has been broadly adopted by communities/agencies including FHWA, WSDOT, and SDOT, across this nation, which recognize that merely adhering to design standards is Not effective in eliminating fatal and serious crashes. Correct this statement and include effective countermeasures that proactively minimize risks to future riders of the light rail system in the EIS. Regarding the second bullet point, while with all conditions equal, the light rail system is expected to transfer some of today's vehicular trips to transit trips, there is an increase in modal conflict due to increased level of pedestrians and cyclists traffic. Correct this statement and identify and include mitigation measures/improvements for all alternatives in order to address modal conflicts in the EIS.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
444	Ch 3 Transportation	various	3.12-3.16	Lei Wu	SDOT	The information is missing in identifying mitigation measures. The missing are mitigation measures for effectively addressing multimodal safety, access, and circulation to and from the station in the study area. The DEIS identifies significant ridership for the Ballard station, which is expected given that Ballard is the terminus station in a densely populated area. The ridership accesses the station via walking, biking, taking transit, and via PUDO, which significantly changes the travel patterns and necessitates the need to ensure safe and convenient multimodal access to the Ballard station in the study area of the Ballard Station beyond just the immediate area of the station frontage under all alternatives per Sound Transit System Access Policy. Identify and include mitigation measures/improvements that effectively encourage convenient and safe connections to the Ballard Station under all alternatives for both intersections right next to the station and corridors/intersections in the study area including measures such as improving signalized intersections for pedestrian priority and bicycle movement at 15th Ave and 53rd, 15th and Market, and 14th and Market. Provide description of those mitigation measures in Chapter 3 and all other relevant sections and on conceptual design drawings.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
445	Appendix J - Conceptual Design Drawings	various		Lei Wu	SDOT	The analysis is incomplete. The missing are pedestrian circulation details and station amenity layout information at stations, e.g., B17-ASP200 for the PREFERRED TUNNEL 14TH AVENUE ALTERNATIVE (IBB-2a). This information is needed to ensure safe and convenient access to light rail stations. Include pedestrian circulation details and station amenity layout information, e.g., long-term bike storage and short-term micromobility storage, in the EIS so that the station area accommodates circulation space, visibility, and "landing space" for transit riders to pause and figure out which way to go in order to avoid loading on the sidewalks. This comment applies to all alternatives especially preferred alternatives.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
446	Ch 3 Transportation	Page 3-112	3.15.3.6 Interbay/Ballard Segment	Lei Wu	SDOT	The information is incomplete for identifying impacts. The missing are specific impacts/gaps to walking and biking access to the Interbay Station in the study area. This section states that 'All walksheds around the Interbay Station are constrained by topography and the railroad tracks' and 'Cyclists could access the Interbay Station via the Magnolia Connector Trail, the Ship Canal Trail, and protected bicycle lanes connecting the Ship Canal Trail to Gilman Avenue West.' This analysis is incomplete identifying specific impacts/gaps to walking and biking access to the Interbay Station in the study area. Furthermore, effective mitigation measures are missing from the DEIS. Identify specific gaps in bike access to the station in the study area and identify effective improvements to address those gaps. One effective mitigation improvement to be included in the EIS is that for PREFERRED ELEVATED 14TH AVENUE ALTERNATIVE (IBB-1a), connecting Nickerson to Emerson to Thorndyke (in collaboration with SDOT) for cyclists to access the station from the Emerson Street trail. Another specific impact to be identified is that bicycle and pedestrian access from Queen Anne neighborhood is very challenging to the Interbay station. Include pedestrian and bicycle access improvements along Dravus or on a new bicycle/ped bridge in this EIS. A third specific impact is that sidewalks on 17th Ave are not compliant with current City of Seattle codes and standards. Identify this specific impact and mitigation measure, i.e., installing compliant sidewalks on 17th Ave in the EIS for pedestrians to safely access the station.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
447	Ch 3 Transportation	Page 3-113	3.16.1 Affected Environment	Lei Wu	SDOT	The information is missing in identifying impacts. Missing are impacts regarding the environment of the Interbay Station on Thorndyke, e.g., PREFERRED TUNNEL 14TH AVENUE ALTERNATIVE (IBB2a) AND PREFERRED TUNNEL 15TH AVENUE ALTERNATIVE (IBB2b). Significant impacts include that the preferred station location is in an obscured, industrial location. The area is surrounded by standard streets, missing sidewalks, and very little human activity aside from employees driving to their jobs. Headhouse and entry are not located on the primary access street, Dravus St. Include those impacts in the EIS and identify effective mitigation measures to address those impacts, e.g., providing design to humanize the area to make it feel welcoming, with an equal emphasis toward safety and visibility; Providing safety measures such as improved lighting and station visibility from Dravus St particularly in the dark and rainy seasons; and analyze the relocation or reconfiguration of headhouse and entry locations for maximum visibility from Dravus and direct/intuitive connections.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
448	Ch 3 Transportation	Starting from Page 3-98	3.13.3.3 Arterial and Local Street Operations	Lei Wu	SDOT	The methodology does not capture complete impacts of this project. Missing are that SDOT professional staff's experience is that Dravus Street is very constrained from the perspective of traffic operations between 15th Avenue W and 20th Avenue W. Include this impact in the EIS and identify and include effective mitigation measures in the EIS including on Dravus Street, providing signal optimization, improved walk and bicycle crossings at intersections, protected bicycle lanes and an enhanced pedestrian experience between 15th and 20th; placing Pick-up and drop-off and transit layover off Dravus Street.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
449	Ch 3 Transportation	Page 3-108	3.15.2 Environmental Impacts of the No Build Alternative	Lei Wu	SDOT	The methodology does not capture complete impacts of this project. This section states that 'Under the No Build Alternative, projects included in Seattle's Bicycle Master Plan (City of Seattle 2014a), Pedestrian Master Plan (City of Seattle 2017d), and the West Seattle Link Extension are assumed to be built.' This statement is misleading because not all planned projects in the City of Seattle's plans are fully funded. Correct this statement and relevant sections of the EIS to reflect project with funding committed and implemented by the time light rail is expected to operate.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
450	Ch 3 Transportation	Various	3.13, 3.15, 3.16	Lei Wu	SDOT	The information is missing in identifying impacts. Missing are significant impacts of the station located at 15th Ave W and Dravus Street. Significant impacts include that this station location is problematic in several ways. It straddles Dravus, an already very constrained and busy street, and doesn't provide good opportunities for ADA access, pick-up / drop-off, walk and bike connections especially across the Dravus Bridge over 15th Ave W, or bus transfers. In addition, the grade challenges at this station make it difficult for people with disabilities to access the station on Dravus particularly east of 15th. And transit connections would be a challenge as well. Furthermore, 15th is a freight route with considerable transit and personal vehicular movement as well; the guideway columns along 15th pose a challenge to the movement of those vehicles. Identify and include those impacts in the EIS and identify and include effective mitigation measures addressing those impacts especially including deficiencies on Dravus Bridge if this alternative is chosen as the preferred alternative.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
451	Ch 2 Alternatives Considered	Various	2.1.2.2.4 South Interbay Segment	Lei Wu	SDOT	Investigate the possibility of an elevated station at Galer on the east side of Elliot that is further north than the current location and does not need to snake over Elliot. This would alleviate significant transportation impacts on Elliot that the current preferred alternative poses. This location could allow space for better transit circulation and bus layover and bicycle parking. Safe street crossings at Elliot would be critical. Bicycle connections to existing trails and future bicycle facilities would be essential to the station development. A pedestrian and bicycle overpass at the south end of the station should be examined.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
452	Ch 3 Transportation	Page 3-38 to 3-39	3.7.3.2 SODO Segment	Lei Wu	SDOT	Mitigation measures necessary to address identified impacts are missing. Missing information is additional mitigation measures for providing effective pedestrian and bike connections that 'Encourage convenient and safe non-motorized access to stations, such as bicycle and pedestrian connections, consistent with Sound Transit's System Access Policy (Sound Transit 2013), Section 1.2.1, Page 1-5.' Those additional mitigation measures are: 1. Design SODO Trail in the plaza area so it is a safe mixing zone for passenger / pedestrians with the movement of cyclists passing through the plaza area. Provide adequate calming measures, channelization, pavement treatments, and signage, so cyclists and pedestrian movement is not in conflict. Pay particular attention to ADA needs for legibility and safety in design; 2. Holgate and Lander over-crossings need to provide at-grade connection from 6th Ave to the SODO trail; 3. Continue multi-use path treatment on north side of Lander through the station area; 4. Provide ped access on both sides of 4th Ave S. (between Lander and Stacy); and 5. Create accessible connections from 4th and 6th along northern station end		Sound Transit has continued to work with the City of Seattle and other stakeholders since the Draft EIS to refine station locations and designs to maximize ridership, access, and passenger experience.
453	Ch 3 Transportation	Page 3-36	3.7.1 Affected Environment	Lei Wu	SDOT	The information necessary to identify impacts is missing. Missing are that much of sidewalks around intersections adjacent to the Sodo Station are narrow and out of compliance with current codes. Identify and include this impact in the EIS and identify and include effective mitigation measures in the EIS, which include intersection improvements at 4th and 6th at Lander.		Methods were updated to include an evaluation of sidewalk and curb ramp condition within the 10-minute walkshed (0.5 mile) of the preferred alternative. Detailing the width and design for all facilities was outside the scope of the Final EIS. To the extent feasible, Sound Transit followed local design guidance and requirements in the design of the project and when restoring/replacing other affected facilities.
454	Ch 3 Transportation	Page 3-38 to 3-39	3.7.3.2 SODO Segment	Lei Wu	SDOT	The information necessary to identify impacts is missing. Missing are that ridership from shared mobility, e.g., e-bicycles. Identify and include this impact and include effective mitigation measures to address this impact, e.g., providing space for predictable shared-mobility (e-bicycles and e-scooters, etc.) that is easily visible, well-organized, and well-defined; and providing short-term bicycle parking to ensure convenient and safe access to the bicycle parking at the station entrances.		Providing bicycle parking and facilities at stations is not an impact and not something that requires mitigation. Bicycle parking and facilities are part of the station design. See Section 3.4, Affected Environment and Impacts during Operation – Transit, of the Final EIS for more information on station mode of access. Bicycle parking does allow for other similar types of vehicles, including e-bicycles and scooters.
455	Ch 3 Transportation	Page 3-14	3.4.3.1.2 SODO Segment	Lei Wu	SDOT	The information necessary to identify impacts is missing. Missing are that Sodo Station can serve as a hub station, not only for West Seattle transfers, but also transfers from South Park/Georgetown, whose routes don't have great frequency and passengers may need to wait for periods. Identify and include this impact in the EIS and identify and include mitigation measures, i.e., amenities to improve the comfort and security of transfer riders.		Ensuring the comfort and security of riders is a primary goal for the project design team. The Final EIS includes drawings of the preferred alternative, including amenities and design considerations to support transfers and the overall rider experience.
456	Ch 3 Transportation	NA	3.2 Introduction and Methodology and Assumptions	Lei Wu	SDOT	The analysis is incomplete in identifying impacts. Missing are the impacts of potential multimodal conflicts in a constrained area on the new overpass. Identify this impact and identify and include mitigation measures in addressing this impact, e.g., creating separated pathways for pick-up / drop-off vehicles arriving and departing from designated curb spaces from bus transit; In alternative with a new overpass, use curb space for active bus bays and create design where they are separated from other modes.		Thank you for your comment. The comfort and safety of multimodal users was a paramount consideration in the project design. See Appendix J of the Final EIS for drawings of the preferred alternative, including pedestrian, bicycle, and vehicular traffic. Further refinements to the configuration will be made during the final design process. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
457	Appendix J - Conceptual Design Drawings	114-145	All CID Options	Jonathan Lewis	SDOT	The analysis is incomplete and does not capture the impacts of surge events. Mitigation measures for identified impacts are missing from the DEIS. Customers must be able to access both (existing and future CID stations) stations from any entrance. It is essential that customers not be required to travel up to street level and then back down again to transfer between lines to avoid unnecessary pedestrian traffic in a heavily congested areas around the CID Stations.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
458	Appendix J - Conceptual Design Drawings	All CID and Westlake Station Options		Jonathan Lewis	SDOT	The analysis is incomplete and does not capture the impacts of surge events. Mitigation measures for identified impacts are missing from the DEIS. Customers must be able to access both (existing and future CID and Westlake stations) stations from any entrance. It is essential that customers not be required to travel up to street level and then back down again to transfer between lines to avoid unnecessary pedestrian traffic in a heavily congested areas around the CID and Westlake Stations.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
459	Appendix J - Conceptual Design Drawings	All stations		Jonathan Lewis	SDOT	All streets impacted by construction will be reconstructed to an agreed upon design between SDOT and Sound transit. This should include streets that are opened to access subterranean portions of the project, and streets closed and impacted by construction of elevated guideway within street ROW. These impacts and reconstructions should be included within the WSBLE project area.		The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. The Final EIS includes statements that affected facilities would be rebuilt to applicable local and federal standards in Sections 3.7.3, 3.7.4, and 3.11.6.4 of the Final EIS. Local codes and standards for transportation facilities are also referenced in Chapter 2 of Attachment N.1A of Appendix N.1, Transportation Technical Report.
460	Appendix J - Conceptual Design Drawings	All stations		Jonathan Lewis	SDOT	The analysis is incomplete. References to local codes requiring bicycle parking is missing. For all stations, frontage improvements, new bus stop and enhancements to existing stops, curbside changes to provide for PUDO, pedestrian and bicycle infrastructure necessary to make a connection to a nearby city bicycleway, and other elements necessary for safe and comfortable station access are essential for managing station impacts on the sidewalks, ensuring safer connections between the existing bicycle and pedestrian network and the stations, and should be included to mitigate impacts of the project.		As detailed in Chapter 3, Transportation Environment and Consequences, of the Final EIS, Sound Transit would include pedestrian and bicycle improvements at stations to accommodate the projected increase in pedestrian and bicycle travel with the project. Potential improvements not identified as part of the project could be implemented in coordination with other local agencies. Access refinements would continue through final design in coordination with agency partners and the community. Sound Transit will continue to work with the City of Seattle and Metro on station access and design through final design.

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461	Appendix J - Conceptual Design Drawings	All stations		Jonathan Lewis	SDOT	The analysis is incomplete. References to local codes requiring bicycle parking is missing. For all stations, EIS should analyze bicycle parking needs, projected need based on mode split vs. what is required by code and provide at each station entry. This is essential for understanding bicycle parking needs (long term v short term) for each station. It is essential to provide bicycle parking in consistent and predictable locations close to station entrances. If not nearby, customers will not use the bicycle parking and may impact pedestrian and disabled access to stations.		Sound Transit collaborated with the City of Seattle to help inform the appropriate amount of bike parking at stations. Each station would have a dedicated bicycle storage area. The primary criteria for siting bike storage areas is that they need to be located close to the nearest planned or existing bike path for the convenience of the users. Short-term bike storage (bike racks) can be located within the public right-of-way or within the station plaza. Long-term bike storage (bike rooms or lockers) would have weather protection and would be adjoining or located in the station entrance. Some stations have bicycle storage at each station entrance.
462	Technical Report: Transportation	6-1 to 6-47	throughout section	Jonathan Lewis	SDOT	The analysis is incomplete. There is no assessment of disabled access to the planned stations. Assessment is needed along with documentation of the impacts on people with disabilities attempting to travel to/from the stations. Infrastructure that is essential for people with disabilities to access the station and proximal to the station, should be included to fulfill code requirements contained within Seattle's ROWIM (Streets Illustrated) and to mitigate the negative impacts of the station on people with disabilities.		See response to comment 306.
463	Technical Report: Transportation	6-1 to 6-47	throughout section	Jonathan Lewis	SDOT	The analysis is incomplete. There is no assessment of project impacts during major events/surge events. Pedestrian traffic to and from the stations during major events will overwhelm surrounding sidewalks and impact nearby residences and businesses. While the overall impact of the WSBLE project on motor vehicle traffic and reliable trip choices will be positive, there will be local impacts to the sidewalks and nearby streets that is caused by the introduction of the new light rail stations and these impacts should be assessed and mitigated. Stations that will be impacted by major events include the potentially rebuilt Stadium Station, CID Station, Westlake Station, South Lake Union Station, and Seattle Center Station. This assessment should include the arrival of a full Sounder Commuter Train as a surge event at the CID Station.		Surge events are not expected to be an issue for the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension
464	Appendix J - Conceptual Design Drawings	Entirety	throughout section	Radcliffe Dacanay	SDOT	The analysis does not capture complete impacts of the project. All streets impacted by construction will be reconstructed to an agreed upon design between SDOT and Sound Transit. These impacts and reconstructions should be documented in the EIS and the reconstruction should be identified as a mitigation.		The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. The Final EIS includes statements that affected facilities would be rebuilt to applicable local and federal standards in Sections 3.7.3, 3.7.4, and 3.11.6.4. Local codes and standards for transportation facilities are also referenced in Chapter 2 of Attachment N.1A of Appendix N.1, Transportation Technical Report.
465	Visual and Aesthetics	Page 3-4	West Seattle - Avalon - Delridge stations	Radcliffe Dacanay	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Around the elevated Fauntleroy Way Station (WSJ-2), the approximate area with concentration of sensitive viewers is missing. The elevated station likely impacts views of recent multi-story developments adjacent to the station and the guideway.		Sensitive viewers along Fauntleroy Way Southwest between Southwest Alaska Street and Southwest Edmunds Street have been added to Figure 4.5-12 of Section 4.5, Visual and Aesthetic Resources, and Figure 1-3 in Appendix N.2, Visual and Aesthetics Technical Report. The discussion of visual change in this area is represented by Key Observation Point WS-30 as described in Attachment N.2A, Key Observation Point Analysis.
466	Appendix J - Conceptual Design Drawings	60, 62, and 64	West Seattle - Avalon - Delridge stations	Radcliffe Dacanay	SDOT	The analysis is incomplete. Study need for a new traffic signal and pedestrian access improvements at the intersection of Delridge and Dakota. This may be necessary for safe pedestrian access to the station.		An increase in delay was identified at this intersection for all Build Alternatives, and Sound Transit will continue to work with the City of Seattle and Metro regarding transit treatments and signal operations at this location and determine whether further mitigation to reduce vehicle delay will be included in the project. Text in Section 3.5.4, Mitigation for Operation Impacts, of the Final EIS has been updated to reflect this.
467	Appendix J - Conceptual Design Drawings	98	West Seattle - Avalon - Delridge stations	Radcliffe Dacanay	SDOT	The analysis is incomplete. There is sufficient space around the north station entrance to consider including bicycle storage facilities. Facilities for cyclists should be available near any station entrance.		Each station would have a dedicated bicycle storage area. The primary criteria for siting bike storage areas is that they need to be located close to the nearest planned or existing bike path for the convenience of the users. Short-term bike storage (bike racks) can be located within the public right-of-way or within the station plaza. Long-term bike storage (bike rooms or lockers) would have weather protection and would be adjoining or located in the station entrance. Some stations have bicycle storage at each station entrance.
468	Appendix J - Conceptual Design Drawings	100, 102, 104	West Seattle - Avalon - Delridge stations	Radcliffe Dacanay	SDOT	The analysis is incomplete. Pedestrian access to these underground station options spill transit system users immediately onto the sidewalk. Ensure safe crossing for pedestrians at intersection of SW Alaska St and 41st Ave SW. This intersection improvement is necessary to ensure safe access to the station and should be included in the WSBLE project, especially during peak volume usage of the station.		Stations are designed for safe access and egress. Sound Transit has continued to work with the City of Seattle and other stakeholders since the Draft EIS to refine station locations and designs to maximize ridership, access, and passenger experience.
469	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1 Acquisitions, Displacements, and Relocations	Richard Pedowitz	Seattle Center	The analysis is missing information necessary to identify impacts and compare alternatives. The acquisition of part of the Seattle Rep parcel does not address the project's impact on the ADA ramp on August Wilson Way between 2nd Avenue North and Warren Avenue North (Parcel 1985200010). Loss of this wheelchair portal eliminates ADA access to and from the campus from the NW. Identification of this impact and mitigation to restore the displaced ADA access in coordination with Seattle Center needs to be included in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
470	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1 Acquisitions, Displacements, and Relocations	Richard Pedowitz	Seattle Center	The analysis is missing information necessary to identify impacts and compare alternatives. Acquisition of part of the Seattle Rep parcel does not address the project's impact upon the breezeway between Vera Project and SIFF on August Wilson Way between 2nd Avenue North and Warren Avenue North. (Parcel 1985200010). Identification of this impact and mitigation, including completion of a Landmarks Certificate of Approval process in coordination with Seattle Center and affected tenants must be included in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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471	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1 Acquisitions, Displacements, and Relocations	Richard Pedowitz	Seattle Center	The analysis is missing information necessary to identify impacts and compare alternatives. Acquisition of part of the Seattle Repertory Theatre parcel does not address its impact upon the ADA and Bus parking stalls on Warren Avenue North. Identification of the impact and mitigation to restore displaced ADA and Bus parking in coordination with Seattle Center should be included in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
472	Acquisitions, Displacements, and Relocations	4.3.3-12	4.3.3.4.1	Richard Pedowitz	Seattle Center	Full closure of Republican Street from Warren Avenue North to Queen Anne Avenue North has multiple impacts to Seattle Center including: loss of access for summer festival trucks; loss of ADA and bus parking near venues that regularly require ADA and bus access; loss of access to campus venues and grounds through breezeway at NW rooms and at campus Gate 5; loss of access to ADA ramp at Gate 5; and increases in traffic congestion on vicinity streets. Mitigation to include relocation of ADA and bus parking and coordination with Seattle Center and its tenants to preserve access.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
473	Acquisitions, Displacements, and Relocations	4.3.3-15	4.3.3.4.4	Richard Pedowitz	Seattle Center	Weekly coordination meetings with construction representatives and Seattle Center stakeholders will be required to develop strategies that mitigate effects of construction impacts on area constituents. Weekly engagement should match the effort undertaken during the Mercer Corridor improvement project, and reflect best practices learned during that project. Care must be taken to ensure closures are minimized with attention paid to phasing and re-routing as much as possible.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
474	Acquisitions, Displacements, and Relocations	4.3.3-15	4.3.3.4	Richard Pedowitz	Seattle Center	Acquisition of part of the Seattle Rep parcel does not address the impact of this project upon the theatre's operating schedule. Although this is mentioned there is no mentioning of the plan for how to properly address this for Seattle Center Arts organizations. It is not only Seattle Rep that will be impacted, but Cornish Playhouse, ANT Gallery, Vera Project, KEXP, SIFF, and potentially others by the acquisition and subsequent construction. It is only mentioned and the impacted groups need a plan that accommodates their interests.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
475	Acquisitions, Displacements, and Relocations	4.3.3-15	4.3.3.4	Richard Pedowitz	Seattle Center	Mitigation is insufficiently detailed to compare alternatives. There appear to be insufficient mitigation efforts for support of Seattle Center venue operations during construction. Mitigation to include agreement to pause impact work during major events on the Seattle Center campus, and further mitigation to include replacement of lost revenues, and/or temporary relocation of an event or festival if accommodation cannot be made.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
476	Acquisitions, Displacements, and Relocations	4.3.3-15	4.3.3.4	Richard Pedowitz	Seattle Center	Analysis is missing information to identify impacts. Acquisition of part of the Seattle Repertory Theatre parcel does not address its impact upon the public art piece at Gate 5 (August Wilson Way and Warren Avenue North). Mitigation to include temporary removal, safe storage, and restoration of the art piece in coordination with Seattle Center. Removal and replacement of this art piece seems to be referenced in Chapter 4, on page 4.3.17-20, but slightly misidentifies the location.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
477	Acquisitions, Displacements, and Relocations	4.3.3.-15	4.3.3.4.4	Julia Levitt	Seattle Center	Description of process to acquire Seattle Center campus property, and associated mitigation, is incomplete. Acquisition of property within the Seattle Center campus would require an ongoing partnership and agreement between Sound Transit and the City to establish the expectations and responsibilities for security, management, operations, cleanliness, accommodation of events, and other considerations. Typically Seattle Center does not sell campus land, but rather executes long term ground leases. Mitigation to include market rent for property converted to transit use to guarantee Seattle Center operating revenue.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
478	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1.3.3.	Julia Levitt	Seattle Center	Analysis is missing detail to identify an impact. Displacement of outdoor events at this location may result in elimination of Seattle Center jobs, including union labor, an impact that would require mitigation.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
479	Acquisitions, Displacements, and Relocations		Table: Historic Preservation	Julia Levitt	Seattle Center	The analysis is lacking information. The DEIS statement that DT-1 will create less surplus property and less likelihood for TOD versus DT-2 is true; however, the FEIS should also acknowledge for clarity that City ownership of the land and its nature as a public recreational resource and arts/cultural hub is also a main factor that will limit TOD on the campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
480	Appendix G - Environmental Justice	Page 5-49	5.2	Valancy Blackwell	Seattle Center	The analysis is missing information needed to identify impacts and compare alternatives. Add to Social Resources - Downtown Segment row, Impacts to Minority and Low-Income Populations column: "Construction impacts to free and subsidized events at Seattle Center and a reduction of on-street parking may result in decreased access for minority and low-income people to cultural resources and festivals located on campus." Mitigation to include a Construction Mitigation Plan for Seattle Center station that addresses equity impacts with measures including funding multi-lingual outreach in all communications regarding access, closures, detours, etc. The plan should prioritize mitigation of construction impacts to free and subsidized events.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
481	Appendix H - Section4(f) Evaluation	4-42		Delia Tyrrell	Seattle Center	The analysis materially understates the likely impact to Seattle Rep. The DEIS states that the Seattle Repertory Theatre is expected to remain open during construction. This is unlikely due to the noise and vibration impacts from the adjacent construction. Seattle Rep had to close down due to impacts of noise and vibration during the construction of Climate Pledge Arena, which is significantly further from the Theatre than the ST3 construction in Alternative DT-1. Sound Transit will need to consider temporary relocation to a suitably equipped space for this tenant if alternative DT-1 is chosen.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
482	Appendix H - Section4(f) Evaluation	4-42		Delia Tyrrell	Seattle Center	Information necessary to identify impacts and compare alternatives is missing. There is no mention of "Playhouse - Century 21 Exposition", also known as the Cornish Playhouse, in the analysis of Alternative DT-1. This is an historic building eligible for the National Register that is directly adjacent to the construction footprint. This building was built for the 1962 World's Fair and there are concerns that excavation for the construction of the DT-1 station may impact the structural integrity of the Playhouse, which includes an historic structural wall below grade that is sensitive to geological effects at Theater Commons. Seattle Center requests that Sound Transit perform a structural analysis of this building to ensure this 4(f) resource will not sustain any permanent damage from construction or operations of the light rail.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
483	Appendix H - Section4(f) Evaluation	4-42		Delia Tyrrell	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing are: the use and importance of the Donnelly Gardens, steps, and plaza. This space is used both as a passive open space and an event space, and contributes to the recreation space at Seattle Center, a 4(f) resource. The removal of this space from Seattle Center campus in DT-1 impacts both a passive public open space and the ability of Seattle Center to produce events.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
484	Appendix H - Section4(f) Evaluation	4-42		Delia Tyrrell	Seattle Center	The methodology does not completely describe the adverse impacts of the project, including: the removal of numerous mature trees, designated as Exceptional Tress by the City of Seattle and Legacy Trees in the Seattle Center Century 21 Master Plan, from August Wilson Way. Tree removal should be categorized as a permanent significant and adverse impact to Seattle Center Campus, a 4(f) resource.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
485	Appendix H - Section4(f) Evaluation	4-44		Delia Tyrrell	Seattle Center	This page states that "Playhouse-Century 21 Exposition" will not be impacted by either Downtown Segment alternative. This statement has not considered the possible structural damage this historic building could sustain based on its direct proximity to the construction zone in Alternative DT-1. This building was built as a temporary building for the 1962 World's Fair. There is no description of the methodology to protect and support the historic building during construction, even though the proposed station would be less than 3' from the building face. Provide a construction feasibility study so that the actual effects can be assessed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
486	Appendix H - Section4(f) Evaluation	4-42		Delia Tyrrell	Seattle Center	The analysis is missing information necessary to identify impacts. Missing is: a construction feasibility study of the landmarked Northwest Rooms, constructed in 1962. The proximity of the construction and the plan to excavate directly below the building, Seattle Center requests a structural analysis to ensure there will be no permanent damage, settling, or instability of the Northwest Rooms as a result of the light rail construction. The buildings have limited waterproofing in this area which has a shallow water table. They will require careful monitoring during construction and reinforcement of building waterproofing if needed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
487	Appendix H - Section4(f) Evaluation	4-41	4.2.3.1	Delia Tyrrell	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Missing is the inclusion of the Donnelly Gardens as a permanently impacted area in DT-1. The Donnelly Gardens are used as an event space and for stormwater management.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
488	Appendix H - Section4(f) Evaluation	4-42	4.2.3.1	Delia Tyrrell	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing are: the noise, vibration, and other construction related impacts on the north fountain lawn and other public outdoor spaces on Seattle Center campus. The analysis for DT-1 states that the greens would not be impacted adversely by project construction, but there hasn't been an analysis of noise, dust, debris, and access impacts that may affect the use of this space. The International Fountain and surrounding green space are a popular destination for free outdoor public recreation, and is also the site of programming and events, including festivals.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
489	Appendix H - Section4(f) Evaluation	4-42		Julia Levitt	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing are: ongoing operational impacts to campus including access, security, maintenance, and sanitation. The permanent operation of a transit facility inside the boundaries of this active civic center will require a long term operations and maintenance agreement between Seattle Center and Sound Transit, which is not referenced in this document. Without this agreement, it cannot be determined that there will not be permanent impacts to the park and recreation features of Seattle Center campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
490	Appendix H - Section4(f) Evaluation	4-41		Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Missing is that construction of the Seattle Center DT-1 alternative will temporarily remove vehicle access from the Cornish Playhouse back of house for loading. This will impact an event venue that contributes to the recreation features that make Seattle Center a 4(f) facility.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
491	Appendix H - Section4(f) Evaluation	4-41	Figure 4-4	Julia Levitt	Seattle Center	Figure is incorrect, please change for FEIS. Legend to change "Park Boundary" to "Seattle Center Campus Boundary" or "Seattle Center Boundary." The properties north of Mercer are incorrectly identified as Seattle Center property. The property on Roy St. is a rented premises for Seattle Center maintenance shops but is not City-owned campus property. The Center Steps Plaza fronting Mercer between 3rd Ave N. and the mid-block connection is Seattle Center property, but not the adjacent Plymouth Housing development site. (See Comment 59, same comment in another chapter)	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
492	Appendix J - Conceptual Design Drawings	191		Gretchen Lenihan	Seattle Center	Note that the East station entrance structure is blocking emergency egress from Seattle Rep/Leo K, in multiple areas. It is also blocking ADA access around the side of the Seattle Rep (that walkway that leads around the building between Leo K entry and Bagley Wright entry). In addition, the station would block any sightlines/views from the Rep's expansive lobby windows, dramatically reducing the attractiveness and value of that interior space. This is inconsistent with Sound Transit's conclusion of no adverse temporary or permanent impacts for the Seattle Center DT-1 alternative, as stated in Appendix H, page 4-42.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
493	Appendix J - Conceptual Design Drawings	191		Julia Levitt	Seattle Center	The east entrance in the DT-1 alternative, represented in this diagram, is inconsistent with the planning and design principals adopted in the 2008 Seattle Center Century 21 Master Plan. The entrance building and back of house features are out of scale with Seattle Rep and other campus buildings nearby. The headhouse encroaches into campus open space more than necessary. If DT-1 alternative is pursued, and an entrance is built within the boundaries of Seattle Center, the architecture must be designed in collaboration with Seattle Center and subject to successful review by the Seattle Design Commission. As mitigation, Seattle Center prefers for the station entrance to be moved further from the intersection of August Wilson Way/2nd Ave N. so as to not so severely impact use of the roadways, intersection congestion, and Seattle Rep's lobby space. The mass of the entrance should be broken up, and the design should not place back-of-house uses including ventilation in prominent public spaces.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
494	Ch 2 Alternatives Considered	2-91	2.68	Donna Golden	Seattle Center	Analysis is missing information necessary to identify impacts and compare alternatives. The Staging Areas and Construction Easements section does not address Seattle Center Station.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
495	Ch 2 Alternatives Considered	2-58	2.1.2.2.3	Donna Golden	Seattle Center	Cut and cover construction at 2nd and August Wilson Way may impact Seattle Center onsite utilities serving Seattle Repertory Theatre and Cornish Playhouse and other surrounding buildings. If impacted, Sound Transit must coordinate with Seattle Center and tenants to relocate utilities as part of enabling work prior to construction start.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
496	Ch 2 Alternatives Considered	2-58	2.1.2.2.3	Donna Golden	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Missing is that pavers on vacated 2nd Ave N. between August Wilson Way and Mercer Street are carefully designed for stormwater management and cannot handle heavy loads. The road and ecological systems will need to be fully restored after construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
497	Ch 2 Alternatives Considered	2-62	2.1.2.2.3	Donna Golden	Seattle Center	Businesses along Mercer Street, such as Seattle Rep, will be impacted during construction of Seattle Center DT-2 alternative.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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498	Ch 2 Alternatives Considered	3-139	3.19.4.1.5	Donna Golden	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Missing is that 2nd Avenue North is not only a pedestrian walkway within Seattle Center; it is a multi-modal internal road used constantly for maintenance and operations vehicles. Construction closure and operations spill-out at the east station entrance of the DT-1 Seattle Center station would impact Seattle Center operations and event vehicle access from Gate 5 at Warren/August Wilson Way and Gate 6 at 2nd Ave and Mercer. FEIS to consider this a permanent impact to Seattle Center as well as a temporary construction impact, and describe mitigation including moving the station entrance further from the intersection; breaking up and reducing its mass; taking measures to control spill-out of operations on campus in a mutually acceptable way; and executing a long term operating agreement between Sound Transit and Seattle Center.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
499	Ch 2 Alternatives Considered	2-85	2.6.2	Jae Lee	Seattle Center	Analysis is missing information necessary to identify impacts. FEIS should describe potential construction impacts and permanent impacts of enabling work identified for Seattle Center campus, including utility relocation.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
500	Ch 2 Alternatives Considered	2-88	2-66 Tunnel Light Rail Construction	Julia Levitt	Seattle Center	Analysis is missing information needed to compare alternatives. 2nd paragraph states that cut-and-cover construction "could be used for" stations including the Seattle Center station. FEIS should contemplate mining the station as an alternative, and summarize the environmental construction impacts of mining compared to those of cut-and-cover. This is necessary for comparing alternatives because construction impacts of both Seattle Center station alternatives have significant adverse impacts that are understated in the DEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
501	Ch 2 Alternatives Considered	2-88	2-66 Tunnel Light Rail Construction	Julia Levitt	Seattle Center	The analysis is missing a description of impacts. In the third paragraph from the bottom, the analysis states, "For all proposed tunnel construction methods, the need for fresh air requires that a mechanical ventilation system and fans be in place. Fans could run for 24 hours a day and could be audible at tunnel portals, stations, or access locations." In FEIS, please describe the level of noise expected to be audible at stations. In the case of the Seattle Center station alternative DT-1 east entrance, the vent fans appear certain to create significant adverse noise impacts at Seattle Rep, and potentially at other nearby venues.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
502	Ch 2 Alternatives Considered	2-88	2-66 Tunnel Light Rail Construction	Julia Levitt	Seattle Center	Description of impacts and mitigation are incomplete. In the construction mitigation plan for construction of the Seattle Center station, the exact location of staging areas and acceptable haul hours and routes will need to be approved by Seattle Center. Please see EXHIBIT SC-2 describing current curbside uses around Seattle Center for school buses and event loading needs, and campus event schedule.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
503	Ch 2 Alternatives Considered	2-84	2.6.1	Julia Levitt	Seattle Center	Construction 5-6 days per week, between 7am-10pm will impact performances and recordings on Seattle Center campus. Ending the day earlier when there are evening performances would be a mitigation required to make business operation viable during construction of the Seattle Center station preferred alternative D-1. The construction hours are inconsistent with the statement in DEIS Appendix H that says tenants including Seattle Rep, Cornish Playhouse, and the Northwest Rooms tenants can operate during construction of the Seattle Center DT-1 station.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
504	Ch 3 Transportation	3-154	3.19.7.7	Donna Golden	Seattle Center	The analysis is missing information necessary to identify impacts and compare alternatives. Need plan for oversized truck access. Seattle Center Station is currently not addressed in this section.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
505	Ch 3 Transportation	3-137	3.19.4.1	Gretchen Lenihan	Seattle Center	Transportation impacts from construction are understated, and mitigation is missing. Full closure of Harrison between Dexter-6th for construction of the SLU DT-1 station will block vehicles that are exiting SR-99 and trying to come to Seattle Center. This will affect attendance at Seattle Center events. Closing Harrison St. -- which has already become a very busy street since its recent reconnection across 99 -- will push vehicle traffic to Mercer and Denny. Suggested mitigation: temporarily re-routed traffic exiting SR-99 to another cross street that isn't Mercer or Denny, and phasing construction closures so that other closures impacting Mercer and Denny are not happening simultaneously.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
506	Ch 3 Transportation	3-137	3.19.4.1	Gretchen Lenihan	Seattle Center	Mitigation is missing from the analysis. The Harrison closure would temporarily prevent any major Citywide Special Events from being able to use a route involving Hwy 99 and Seattle Center. The tactic of routing on 99 has been used in the past to reduce the impact of special events, especially large runs, on City streets. Mitigation to include coordination between Seattle Center and Sound Transit's construction team to arrange to pause work or route special event access around the construction site as much as possible to allow special events to continue.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
507	Ch 3 Transportation	3-141	3.19.4.5	Gretchen Lenihan	Seattle Center	Impacts described are understated, and unrealistically minimal. The multi-year closure of Republican from Queen Anne Ave - Warren does the following: removes emergency vehicle access to KEXP, VERA, the upper NW Courtyard and buildings along that roadway; removes any vehicle/delivery access to the businesses on those blocks (esp. between 1st/Warren); removes a major curb use asset for Seattle Center business operations - ADA parking, artist loading and parking for KEXP & VERA, school bus staging and parking for all facilities, and Arena, Festival, and Walk & Run staging & curb use. The closure impacts are inconsistent with the statement in DEIS Appendix H that says tenants including Seattle Rep, Cornish Playhouse, and the Northwest Rooms tenants can operate during construction of the Seattle Center DT-1 station.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
508	Ch 3 Transportation	3-137	3.19.4.1	Gretchen Lenihan	Seattle Center	The closure of Republican at the 1st Ave N intersection for more than a year will cripple N-S transportation west of the Seattle Center campus and to/from the Uptown neighborhood. The transportation impacts involved in moving that vehicle traffic west to side streets will affect a huge number of small businesses and residences in Uptown that don't seem big enough to accommodate those impacts efficiently. Mitigation for these impacts is missing from the DEIS. Missing mitigation includes: financial compensation to affected businesses; signage and communication to signal that businesses are open during construction; phasing of the intersection closure and shortening its duration as much as possible.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
509	Ch 3 Transportation	3-99	3.13.3.3.4	Richard Pedowitz	Seattle Center	Description of impacts is understated. Partial closure of Mercer Street over 3.5 years would have significant impact on traffic congestion as traffic diverts elsewhere, as well as dramatic impact upon arts organizations and other entertainment venues along the corridor. Mitigation to include ongoing, robust communication and coordination with Seattle Center, affected organizations, and the community at a level similar to what was done for the Mercer Corridor improvement project and the Climate Pledge Arena renovation. Mitigation must also include reducing the closure as much as possible; re-routing traffic to locations other than Denny Way, and careful phasing to minimize cumulative impacts of construction closures throughout downtown as much as possible.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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510	Ch 3 Transportation	3-109	3.15.3.1	Richard Pedowitz	Seattle Center	Daily boardings for both South Lake Union and Seattle Center Stations do not account for event related demand surges at Seattle Center. Include more detailed information about surge crowds and pedestrian flows in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
511	Ch 3 Transportation	3-109	3.15.3.1	Richard Pedowitz	Seattle Center	Peak hour trips do not reflect event related demand surges at both South Lake Union and Seattle Center Stations. Include more detailed information about surge crowds and related pedestrian flows in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
512	Ch 3 Transportation	105	3.14.3.3	Richard Pedowitz	Seattle Center	Temporary and permanent removal of on street parking will have negative impact on those not able to afford higher parking rates found in off street locations--further limiting access to events at Seattle Center to those of lower income and possibly having an equity impact	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
513	Ch 3 Transportation	3-108	3.15.3.1	Deborah Daoust	Seattle Center	Analysis is missing information needed to identify impacts and compare alternatives. Under Impacts Common to All Alternatives, analysis needs to consider long-term impacts to outdoor event pedestrian circulation on the Seattle Center campus grounds near the DT-1 Seattle Center station.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
514	Ch 3 Transportation	3-109	3.15.3.1	Deborah Daoust	Seattle Center	Analysis is missing information needed to identify impacts. This section needs to more clearly consider cumulative attendance on the grounds (not just surge events). As stated earlier, a typical Saturday night can generate substantial combined event attendance. Data on campus attendance is included in Seattle Center Arena FEIS and Uptown/Seattle Center Parking Study (2018)	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
515	Ch 3 Transportation	3-110	3.15.3.4	Deborah Daoust	Seattle Center	Impacts are missing and mitigation is missing from the analysis. This section should address the impacts of pedestrians entering/exiting using the DT-1 Seattle Center Station east entrance during large events using that part of the grounds. 2nd Ave N on campus is frequently used as a portion of the race course for certain races, walks and fun runs, and access for these events will be in conflict with patrons trying to access or exit the station. Proposed mitigation: move the station entrance outside of the campus perimeter. If entrance cannot be built outside the perimeter, make the entrance more compact, and execute a long-term agreement between Sound Transit and Seattle Center to establish responsibilities for operations during large events, mitigating impacts to Seattle Center organizations, and keeping the entrance clean and safe for all transit users and campus visitors.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
516	Ch 3 Transportation	3-85	3.12.3.4	Deborah Daoust	Seattle Center	Analysis is missing information needed to identify impacts. FEIS to include discussion of the traffic impacts of TNCs (transportation network companies), which could increase substantially around the Seattle Center station. Mitigation to include policies and designated zones for TNC activity that complement those in use by Seattle Center and Climate Pledge Arena.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
517	Ch 3 Transportation	3-103	3.14.1	Deborah Daoust	Seattle Center	The analysis is missing information needed to identify impacts. The parking section needs to consider impacts of night and weekend road closures on access to 5th Ave N and Mercer St Garages. Reduced access to the garages will financially affect Seattle Center and its resident organizations.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
518	Ch 3 Transportation	3-140	3.19.4.4	Deborah Daoust	Seattle Center	The Non-motorized Facilities section needs to consider pedestrian movement on/through the Seattle Center grounds.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
519	Ch 3 Transportation	3-136	Table 3-30	Deborah Daoust	Seattle Center	Construction closures on Harrison St (6th to Dexter) must consider impacts to parking access to 5th Ave N Garage and vehicle access to/from SR-99, which is a major access route to Seattle Center.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
520	Ch 3 Transportation	3-138	3.19.4.1.5	Jae Lee Deborah Daoust	Seattle Center	Closure of West Republican Street will impact services to the tenants of the Northwest Rooms at Seattle Center (KEXP, Vera and SIFF). Construction will disrupt daily loading/unloading for regular event operations; emergency access, and trash removal. Without mitigation, impacts may result in the tenants needing to temporarily relocate. This closure is inconsistent with the statement in Appendix J that the tenants of the Northwest Rooms will be able to continue operations throughout construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
521	Ch 3 Transportation	3-90	3.13.1.2	Deborah Daoust	Seattle Center	Analysis is missing information necessary to identify impacts. The Intersection Operations analysis needs to include an analysis of pre- and post- event conditions at Seattle Center. Many of the largest spectator events, including those at Climate Pledge Arena, often begin after the PM peak and end after 10pm.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
522	Ch 3 Transportation	3-105	Table 3-26	Deborah Daoust	Seattle Center	In table 3-26, displaced on-street parking during operations and construction should be considered an impact to Seattle Center events and resident organizations. Especially during construction, a substantial number of parking places will be displaced in vicinity of 5th/Harrison in DT-1 and 6th and Mercer in DT-2	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
523	Ch 3 Transportation	3-152	3.19.7.3	Deborah Daoust	Seattle Center	Did analysis of curb use management take into consideration impacts on accessible parking around Seattle Center such as on Warren St between Mercer and Republican streets?	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
524	Ch 3 Transportation Environment and Consequences	3-86	Table 3-20	Julia Levitt	Seattle Center	The PM Peak boardings and alightings for Seattle Center don't reflect Climate Pledge Arena surge events, which are anticipated to be frequent and will often conflict with weekday PM peak.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
525	Ch 3 Transportation Environment and Consequences	3-109	3.15.3.1	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Surge crowds of pedestrians at the Seattle Center station will be a frequent event, and a thorough analysis of the impacts and the capacity of pedestrian impacts and the station design to accommodate surge crowds will be an important factor in deciding between the two Seattle Center station alternatives. Please include drawings in the FEIS showing flows of surge crowds, areas of queuing, and estimates of time required to clear the queues after an event.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
526	Ch 3 Transportation Environment and Consequences	3-111	3.15.3.5	Julia Levitt	Seattle Center	The analysis is missing information necessary to compare alternatives. This page highlights that DT-2 requires patrons of CPA and Seattle Center events to "cross at least one roadway" to access the campus. This is technically true; however, Warren Ave. N. is not a difficult crossing for pedestrians, and the extra distance between the DT-2 station entrance and Climate Pledge Arena may be beneficial for surge crowd dispersal.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
527	Ch 3 Transportation Environment and Consequences	3-115	3.16.3.4.	Julia Levitt	Seattle Center	Analysis is misleading. It is not reasonable to assume there will be adverse pedestrian safety impacts from DT-2 versus DT-1 at Seattle Center, because Warren Ave. N. is a quiet street with low volumes of traffic.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
528	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.1.5	Julia Levitt	Seattle Center	Analysis is missing information necessary to compare alternatives. For Alternative DT-2, please study additional options for re-routing vehicular traffic during partial closures of Mercer St., including diversion to Roy St. Diversion to Denny alone is unlikely to be enough mitigation in this area.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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529	Ch 3 Transportation Environment and Consequences	3-151	3.19.7.2	Julia Levitt	Seattle Center	Add Monorail to list of transit that will remain operational during construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
530	Ch 3 Transportation Environment and Consequences	3-126	3.19.1	Julia Levitt	Seattle Center	The methodology does not capture complete transportation impacts of the project, including cumulative transportation impacts of construction throughout the Downtown segment. For example, closure of Republican St. or Mercer St. for the Seattle Center station that happen simultaneously with closure of Harrison St. for SLU station will have a greater cumulative impact to Seattle Center campus events and tenants than either closure on its own. As a result, there is not sufficient information to identify the full extent of the impact, and the impact to downtown Seattle is understated in the DEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
531	Ch 3 Transportation Environment and Consequences	3-126	3.19.1	Julia Levitt	Seattle Center	Mitigation for transportation impacts to the campus and resident organizations should include investment in transportation and access infrastructure to ensure options for multi-modal transportation reaching the campus during construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
532	Ch 3 Transportation Environment and Consequences		Table 6-6	Julia Levitt	Seattle Center	Mitigation measures are not thoroughly described. In coordination with Seattle Center, Sound Transit to develop a Construction Transportation and Access Plan that includes subsidized parking and Monorail fares for patrons of campus events, as well as wayfinding and security support for patrons.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
533	Ch 5 Cumulative Impacts	5-10	5.4.4.1	Donna Golden	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing is that operational impacts also include an economic impact in terms of how businesses will operate in the future. Seattle Center's loss of land for festivals and outdoor events would result in lost revenues and lost jobs. The above-ground east entrance of the DT-1 Seattle Center station would create an aesthetic impact on the surrounding businesses including Seattle Rep, SIFF and the Vera Project, which may result in lost or diminished revenues for those organizations. Cars, trucks, and other motorized transportation access at 2nd and Mercer would be impacted. Measures would be required to ensure safety for pedestrians coming out of the station, as 2nd Ave would be shared with motorized transportation.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
534	Ch 5 Cumulative Impacts	5-11	5.4.4.2	Richard Pedowitz	Seattle Center	Include lost revenues at Seattle Center among the impacts. Seattle Center and its resident organizations contribute more than \$1.0 billion of economic impact annually.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
535	Ch 5 Cumulative Impacts	10	5.4.3.2	Lance Miller	Seattle Center	No mention of KEXP, Vera, SIFF who will clearly be unable to operate or displaced during construction	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
536	Ch 5 Cumulative Impacts	11	5.4.4.2	Lance Miller	Seattle Center	No mention of economic impacts to KEXP, Vera, SIFF who will clearly be unable to operate or displaced during construction	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
537	Ch 5 Cumulative Impacts	17	5.4.8.2	Lance Miller	Seattle Center	No mention of noise and vibration impacts to KEXP, Vera, SIFF, Seattle Rep, Cornish, Seattle Ballet or McCaw Hall.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
538	Ch 5 Cumulative Impacts	23	5.4.18.2	Lance Miller	Seattle Center	No mention of construction impacts to Seattle Center in Parks and Recreation section	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
539	Ch 5 Cumulative Impacts	23	5.5	Lance Miller	Seattle Center	No mention of mitigation for Seattle Center during construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
540	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Gretchen Lenihan	Seattle Center	Add North Fountain Lawn to the list of facilities which may be impacted by vibration, and add North Fountain Lawn to the list of facilities impacted by construction noise. The lawn is a programmed outdoor facility. For DT-2 construction noise/vibration impacts, add Exhibition Hall/Phelps Center, Cornish Playhouse to the list of facilities which will be impacted.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
541	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Gretchen Lenihan	Seattle Center	Please add all historically significant properties at Seattle Center to the list. While it is not itself an historic district, the Seattle Center campus was built in 1962 for the World's Fair and therefore its role in Seattle has historic prominence.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
542	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Richard Pedowitz	Seattle Center	Closure of Harrison Street reduces access to and from I-99 both north and south for inbound and outbound traffic from Seattle Center event attendees. Construction mitigation plan to address how traffic impacts will be mitigated, and also address cumulative impacts if Seattle Center station and SLU station will be under construction simultaneously.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
543	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Richard Pedowitz	Seattle Center	Closure of Harrison Street increases exiting time from the Seattle Center garages and environs following events as more cars compete for access on already congested streets.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
544	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Richard Pedowitz	Seattle Center	Closure of portions of Harrison Street for 4 years will reduce access to Seattle Center's 5th Avenue North Garage and the Memorial Stadium parking lot. This will impact a significant of the off-street parking supply serving Seattle Center's daily visits and major events. The 5th Ave N. Garage contributes 15% of Seattle Center net revenue, and revenues from parking are currently critical to Seattle Center's operating budget. Construction should be coordinated to keep the off-street parking supply open and point drivers there to assist with cars circling.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
545	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Richard Pedowitz	Seattle Center	Construction, noise and vibration impacts do not consider Climate Pledge Arena	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
546	Ch 6 Alternatives Evaluation	6-22	6.2.2.2.2	Richard Pedowitz	Seattle Center	Closure of Urban Triangle Park affects access to Seattle Center skatepark	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
547	Economics	4.3.3-15	4.3.3.4.4	Donna Golden	Seattle Center	In addition to temporarily displacing Seattle Repertory Theatre, Cornish Playhouse, SIFF, VERA, and KEXP, and permanently displacing event space in front of Seattle Repertory Theatre, which is a major economic impact for the theatre arts community, the Preferred Alternative DT-1 would create access challenges around the campus especially for larger vehicles that typically use the intersection at 2nd and August Wilson Way to reach the Founders Court area between Cornish Playhouse and Exhibition Hall as well as access to Kreielsheimer Promenade for events. This could potentially limit the economic viability of those spaces during construction. The intersection at 2nd Ave and August Wilson Way is a major access point for vehicular accessibility to the northern portion of the campus. Access from the gate at Republican and 4th Ave N presents issues at the narrow and steep ramp as well as turning radius issues for larger vehicles.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
548	Economics	4.3.3-8	4.3.3.3.4	Delia Tyrrell	Seattle Center	Construction of the DT-1 campus station will impact the value of the Seattle Rep building and lobby areas as an asset by blocking views from the windows and permanently removing landscaped and hardscaped spaces, including the Donnelly Gardens, directly adjacent to the Seattle Rep.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
549	Economics	4.3.3-15	4.3.3.4.4	Gretchen Lenihan	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified, missing are the event power and utilities located within the construction area for the Seattle Center station in DT-1. Disruption of access to these power and utility sources would hinder Seattle Center's ability to put on events during construction. This would impact attendance and revenue.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
550	Economics	4.3.3-8	4.3.3.3.4	Gretchen Lenihan	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified, missing are, the proposed DT-1 east station entry obstructs one of the last remaining plaza spaces on Seattle Center campus that is hospitable to larger activations/events (roughly 20'x30' or 20'x40'), in addition to obstructing space controlled by the Seattle Rep. The site is also one of the primary locations for large sponsors on the campus during major festivals. Removing this plaza space has a significant impact on the ability of festival producers, Seattle Center and Climate Pledge Arena to activate large sponsorships at events, and will create a significant financial impact to Seattle Center, possibly impacting business and employment. Potential mitigation should include building the station entrance further north or west at the campus perimeter to avoid obstruction of the plaza.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
551	Economics	4.3.3-15	4.3.3.4.4	Gretchen Lenihan	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified, missing are, locating a station entrance inside the Seattle Center campus perimeter becomes a public safety hazard for any large on-campus event such as a major festival during construction and operations. In such cases, the entrance inside the campus would need to be turned into an official festival entry, or the festival footprint would need to be reduced dramatically to exclude the station. Allowing access from the station into a large enclosed gathering on the campus raises other security and safety concerns, including the need to close/secure the station in the event of a direct threat like an active shooter situation. This is one reason why a long-term operating agreement between Seattle Center and Sound Transit would be necessary to operate the station if this design is selected. Sound Transit to provide the following operational mitigations: accommodate and pay for the ability to gate the campus for large outdoor events; provide permanent security staffing at Seattle Center station that complements Seattle Center outdoor event security; provide surge event queuing plan and adequate staffing and support for large events at the Climate Pledge Arena and other facilities on campus. These comments are in response to both construction and operations impacts of the DT-1 alternative.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
552	Economics	4.3.3-15	4.3.3.4.4	Delia Tyrrell	Seattle Center	DT-1 could temporarily displace two performance theatres, one movie theatre, and a radio station due to construction noise.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
553	Economics	4.3.3-15	4.3.3.4.4	Gretchen Lenihan	Seattle Center	Although construction in this area may not affect Arena attendance, it will absolutely impact the events of resident organizations in the northwest rooms. [The] Vera [Project] especially serves a diverse range of youth and we should be concerned with the equity impacts of once again reducing or removing the ability of this organization to provide its services to the community.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
554	Economics	4.3.3-15	4.3.3.4.4	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. How was it determined that there would not be impacts to attendance at large events, but there may be impacts to attendance at smaller events? This is not a logical determination.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
555	Economics	4.3.3-15	4.3.3.4.4	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Please provide a plan for detour routes through Seattle Center campus for pedestrians, ADA access, operations vehicles, emergency access and event related curb side loading.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
556	Economics	4.3.3-13	4.3.3.4.1	Deborah Daoust	Seattle Center	Add "event attendance" to sentence containing "reduced sales"	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
557	Economics	4.3.3-15	4.3.3.4.4	Deborah Daoust	Seattle Center	Add "Event related revenue" to sentence containing sales revenue to reflect loss to orgs/businesses in close proximity to DT-1 station construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
558	Economics	4.3.3-14	9	Deborah Daoust	Seattle Center	In this instance and throughout the DEIS document, add "and other Seattle Center amenities, including open space, low-cost family-friendly programming, and cultural festivals" to reflect that impacts will be experienced by venues beyond Climate Pledge Arena on the grounds. Cumulative event attendance (not including CPA) at Seattle Center on an active Saturday evening can approach 15,000.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
559	Economics	4.3.3-4	38-43	Deborah Daoust	Seattle Center	The consideration for businesses must include place-based, audience-reliant businesses to include resident organizations in close proximity to DT-1 construction in economic impact analysis.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
560	Economics	4.3.3-14	4.3.3.4.3.	Julia Levitt	Seattle Center	Delete "construction is not expected to notably affect attendance at events." Event attendance at venues affected by construction noise and disruption will unquestionably suffer during the 6-year construction period. Careful planning and weekly communication and coordination will be required to minimize impacts to events on campus during construction. FEIS will need to contain specifics of these plans.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
561	Economics	4.3.3-18	4.3.3.6	Julia Levitt	Seattle Center	Mitigation measures for businesses and organizations significantly disrupted by construction are not thoroughly described. The construction impacts of the project are understated, and more thought will need to be given to mitigation. Missing mitigation measures include: A robust marketing and outreach campaign, comparable to Downtown Waterfront, to develop strategies that mitigate the financial and effects of long-term construction impacts to Seattle Center campus, tenants, and event producers.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
562	Electromagnetic Fields	4.3.13-1	4.3.13.1	Gretchen Lenihan	Seattle Center	Users of Seattle Center outdoor event space frequently operate sensitive equipment such as wireless microphones, radio transmissions and wi-fi usage that are unshielded by buildings. EMF analysis should include analysis of outdoor event operations in the station vicinity including the Northwest Courtyards, Climate Pledge Arena outdoor pavilions, Seattle Rep, vacated 2nd Ave N., and the International Fountain lawn, Memorial Stadium, the Fisher lawn, Fisher Rooftop, Artists at Play playground, and MoPOP.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
563	Executive Summary	E8-31	ES.3.1.2.3.	Gretchen Lenihan	Seattle Center	DT-1 tunneling may also impact MoPOP, which houses performance space.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
564	Executive Summary	E8-31	ES.3.1.2.3.	Gretchen Lenihan	Seattle Center	DT-2 tunneling could also impact Classical KING FM, event activity in Exhibition Hall, Phelps Center and Cornish Playhouse.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
565	Executive Summary	ES 41	ES.5	Lance Miller	Seattle Center	No mention of Seattle Center in Significant and Unavoidable Adverse Impacts. See Seattle Center comments.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
566	Executive Summary	ES-5	25-32	Deborah Daoust	Seattle Center	The analysis, which takes a commuter focus, needs to consider impacts on non-peak commuter times, when high volume activities typically happen on the grounds. Cumulative event attendance can approach 15,000.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
567	Executive Summary	ES-6	43	Deborah Daoust	Seattle Center	Add "cultural" to employment and educational opportunities to include Seattle Center opportunities.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
568	Historic and Archaeological Resources	4.3.16-1	Figure 4.3.16-1	Julia Levitt	Seattle Center	The analysis is incomplete. The Area of Potential Effect cuts through Seattle Center campus, which is a recreational public facility with historic and cultural significance. The APE boundary should be expanded to include the entire campus because the entire campus will be affected by the construction and long-term impacts in the APE.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
569	Historic and Archaeological Resources	4.3.16-9	Table	Julia Levitt	Seattle Center	The analysis is incomplete. The historical and archaeological resources study does not consider the Mercer Garage or Memorial Stadium as part of the affected resources. FEIS must consider potential impacts to these structures from ground borne noise/vibration both during construction and permanently. Construction or permanent noise/vibration impacts above sustainable thresholds would threaten the financial sustainability and long-term viability of the Playhouse and the Phelps Center because of their uses as performance venues. SEE EXHIBIT SC-3 FOR THRESHOLDS	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
570	Historic and Archaeological Resources	4.3.16-27	Table	Julia Levitt	Seattle Center	The analysis does not capture complete impacts of the project to the Century 21 Playhouse. Figure 4-4 of Appendix H shows a construction footprint that extends into vacated 2nd Ave N. for the length of the Playhouse. Construction and excavation in this area could cause significant adverse impacts to the historic structure both above- and below-grade; and the station could cause both construction and permanent noise and aesthetic impacts to the Playhouse and its tenant, Cornish College of the Arts. Please update this table with accurate impacts to the Playhouse for the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
571	Historic and Archaeological Resources	4.3.16-30	Table	Julia Levitt	Seattle Center	International Commerce and Industry Building, Sweden Pavilion and Key Arena are now known by other names: Northwest Rooms (KEXP, SIFF, Vera Project); International Fountain Pavilion; and Climate Pledge Arena, respectively. These commonly used names must be noted in the document so that members of the public can easily find the analysis.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
572	L4.1 Potentially Affected Parcels	L4.1-36	Table L4.1-7.	Gretchen Lenihan	Seattle Center	Table is missing information. Seattle Center is a campus that assembles approx. 23 parcels of property, including the parcels owned and managed by the City of Seattle and adjacent entities including Seattle Public Schools, Pacific Science Center, and the Space Needle. All parcels at Seattle Center including Parcel 1985200305 (North Fountain Lawn), Parcel 1985200010 (Northwest Rooms), and parcel 1988200440 (Cornish Playhouse) should be listed as parcels affected by the proposed D-1 project because of the construction site and permanent entrance located within the campus boundaries.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
573	L4.1 Potentially Affected Parcels	L4.1-36	Table L4.1-7.	Gretchen Lenihan	Seattle Center	Table is missing information. Please list all affected properties at Seattle Center (including street addresses for KEXP, Vera, SIFF, Seattle Rep, Cornish, Ex Hall/Phelps, McCaw, Opera, MoPOP) on this chart.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
574	L4.17 Parks	4.3.18-4	4.3.18.2.3	Julia Levitt	Seattle Center	Section 4(f) summary -- City of Seattle does not concur with conclusions for Seattle Center in the 4(f) summary. The analysis is incomplete and identification of impacts is missing.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
575	L4.1A Maps of Affected Parcels	L4.1-28i	Figure L4.1-28i	Julia Levitt	Seattle Center	The methodology used to identify potentially affected parcels misses some significant impacts. Seattle Center is a campus that assembles approx. 23 parcels of property, including parcels owned and managed by the City of Seattle and adjacent entities including Seattle Public Schools, the Pacific Science Center and the Space Needle. The DT-1 project will impact the full functioning campus, and all campus parcels should be identified as affected.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
576	L4.4 Social Resources	4.3.4-9	4.3.4	Julia Levitt	Seattle Center	Error found in text. DEIS text says that Seattle Center is a designated Arts and Cultural District. Actually it is the Uptown neighborhood -- of which Seattle Center is part -- that is a designated Arts and Cultural District.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
577	L4.4 Social Resources	4.3.4-18	4.3.4.3.4	Julia Levitt	Seattle Center	DEIS indicates that the need for passengers to "cross a roadway to access Seattle Center," in the DT-2 alternative. Seattle Center review team believes this conclusion is overstated and the need to cross Warren from the south entrance of the Mercer St. station alternative does not detract from the passenger experience.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
578	Land Use	4.3.2-8	4.3.2-3	Gretchen Lenihan	Seattle Center	Table 4.3.2-3 incorrectly states there is 0 potential conversion of City-owned open space to transportation-related space. City-owned public open space at Seattle Center would be permanently converted to transit use in the DT-1 preferred option. This conversion will significantly affect events and operations on the Seattle Center campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
579	Land Use		4.3.2.3.1	Julia Levitt	Seattle Center	Analysis is missing information needed to identify impacts and compare alternatives. The list of land use plans checked for consistency does not include Seattle Center's adopted master plan. Please add Seattle Center Century 21 Master Plan (Adopted 2008) and check for consistency with this proposal, which includes a station and entrance inside the Seattle Center campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
580	Noise and Vibration	4.3.7-12	4.3.7.3.3	Donna Golden	Seattle Center	Analysis is missing information necessary to identify impacts and compare alternatives. The analysis of vibration impacts to the historic Cornish Playhouse is missing. Considering its location across from Seattle Rep and next to the construction area, vibration impacts to the Playhouse are likely.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
581	Noise and Vibration	4.3.7.-17	44	Julia Levitt	Seattle Center	The analysis is missing information needed to identify impacts and compare alternatives. Climate Pledge Arena and outdoor venues at Seattle Center including the Northwest Courtyards, Theater Commons, and the International Fountain will be affected by noise and vibration during long periods of DT-1 construction. Seattle Rep will likely experience noise and vibration impacts from DT-2 construction. McCaw Hall, Seattle Opera, KING-FM, Cornish Playhouse, and Pacific Northwest Ballet may also experience noise and vibration impacts during construction of DT-2.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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582	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4	Donna Golden	Seattle Center	Temporary impacts for DT-1 up to 6 years plus restoration would be a significant impact economically and operationally to these noise and vibration sensitive businesses. In addition, it would impact Seattle Center events reducing the footprint of which Seattle Center can produce events as well as for operations/maintenance access around the site, as 2nd and August Wilson Way is a major intersection for north/south access. Closure of the 2nd/Mercer Access could possibly impact ADA access to Seattle Repertory Theatre. The description of the project is inconsistent with the statements in Economics and Appendix H claiming that Seattle Center event attendance will not be affected during construction; and resident organizations can continue operations throughout construction.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
583	Parks and Recreational Resources	4.3.17-23	4.3.17.5.4	Donna Golden	Seattle Center	Alternative DT-2 could have an indirect effect of activating underserved areas in the surrounding Queen Anne Neighborhood, which would benefit from increased accessibility.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
584	Parks and Recreational Resources	4.3.17-6	4.3.17.1.3	Valancy Blackwell	Seattle Center	Add detail to description of Seattle Center, as follows: Seattle Center is a publicly owned recreational area, arts hub, and tourist destination attracting 12 million annual visits. The active 74-acre civic, arts, and family gathering place was originally built for the 1962 World's Fair and includes numerous properties with State and local historic designations. Operated by the City of Seattle and part of the Uptown Arts and Cultural District, the Center is home to several performance and arts venues, tourist attractions, and open spaces. It accommodates numerous community activities, charitable events and festivals throughout the year.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
585	Parks and Recreational Resources	4.3.17-19	4.3.17	Valancy Blackwell	Seattle Center	The analysis is missing information about impacts. Missing impact: Pedestrian access from Mercer Street to August Wilson Way on the east side of the Seattle Rep Theatre would be closed during construction. This is the most direct, flat, ADA-friendly route to the Rep and from the north end of Seattle Center Campus to the interior of campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
586	Parks and Recreational Resources	4.3.17-19	4.3.17	Valancy Blackwell	Seattle Center	The analysis is missing information about impacts. Missing impact: Closure of Mercer Street would affect traffic in this area and could make vehicle access to parking, passenger and event loading areas for Seattle Center more difficult.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
587	Parks and Recreational Resources	4.3.17-19	4.3.17	Valancy Blackwell	Seattle Center	The analysis is missing information about impacts. Missing impact: 6 van-accessible ADA parking stalls located at Seattle Repertory Theater must be preserved throughout construction and operations, or mitigated by ST	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
588	Parks and Recreational Resources	4.3.17-10	4.3.17.3.3	Jae Lee	Seattle Center	The analysis is missing information about impacts. Missing impact: August Wilson Way (Republican St) closure will impact loading and access to tenants of the Northwest Rooms and International Fountain Pavilion, and Seattle Rep's loading area.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
589	Parks and Recreational Resources	4.3.17-20	4.3.17.4.4	Julia Levitt	Seattle Center	Mitigation measures for the identified impacts are missing. Mitigation for impacts to significant Legacy Trees on Seattle Center campus to include taking measures to preserve as many trees as possible during construction; providing financial compensation to Seattle Center for removed legacy trees; replacing any removed Legacy Trees on campus pedestrian pathways with mature specimen trees approved by the Seattle Center Director; and 2:1 replacement overall according to City policy. Trees that must be removed are to be salvaged and relocated to the Woodland Park Zoo, or otherwise reused/repurposed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
590	Parks and Recreational Resources	4.3.17-23	4.3.17.5.4	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. As a result, the analysis does not fully describe impacts to Seattle Center events, public open space, and support space by extensive crowd queuing associated with DT-1 placement of an entrance in the heart of campus. FEIS to include drawings of the flows of passengers to the DT-1 and DT-2 Seattle Center alternatives during surge events including festivals and large events at Climate Pledge Arena, which typically occur several days per week. Drawing to include analysis of where pedestrian crowds will stand and how long the queues will take to clear.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
591	Parks and Recreational Resources	4.3.17-10	Figure 4.3.17-6	Julia Levitt	Seattle Center	Figure is incorrect, please change for FEIS. Legend to change "Park Boundary" to "Seattle Center Campus Boundary" or "Seattle Center Boundary." Two properties north of Mercer are incorrectly identified as Seattle Center property. The property on Roy St. is a rented premises for Seattle Center maintenance shops but is not City-owned campus property. The Center Steps Plaza fronting Mercer between 3rd Ave N. and the mid-block connection is Seattle Center property, but not the adjacent Plymouth Housing development site.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
592	Parks and Recreational Resources	4.3.17-10	4.3.17.3.3	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Please include a figure, or revise Figure 4.3.17-6 to include the footprint of station operations, not just the description of above ground and below ground permanent elements. The above ground structure may require a secure area around its walls for security bollards, maintenance access, security vehicles, micro-mobility and bike parking; crowd queuing, and other accessory uses. The facility will significantly affect views not only Seattle Rep, but also views of the International Fountain from the Theatre Commons entrance. The structure described in the DEIS will have permanent aesthetic impacts on Seattle Center. The removal of rows of mature Legacy trees from August Wilson Way will be a permanent impact that is not fully replaced with newly planted landscaping. Seattle Center's ability to operate as civic center and host to numerous free and subsidized public events will be affected by economic impacts from permanent loss of space for events, festivals, and campus operations. Please include a thorough description of all impacts from the DT-1 and DT-2 alternative stations to Seattle Center in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
593	Parks and Recreational Resources	4.3.17-20	4.3.17.4.4	Julia Levitt	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. The analysis says, "Mature trees along August Wilson Way would be removed for construction." There are a total of 46 mature London Plane trees in the areas affected by construction of DT-1 at Seattle Center. These mature trees are considered to be Legacy Trees in Seattle Center's Century 21 Master Plan, and their canopy provides shade and ecosystem benefits, as well as an important part of the Seattle Center campus aesthetic. The description of the impact in the FEIS should include potential impacts to trees on vacated 2nd Ave. N. as well as August Wilson Way, and a description of the aesthetic and ecosystem impacts. Please require an expert valuation of the trees and ecosystem habitat to be performed for inclusion in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
594	Parks and Recreational Resources	4.3.17-24	4.3.17.6	Julia Levitt	Seattle Center	Mitigation measures for the identified impacts are missing. The displacement of Seattle Center events, public open space, and support space by extensive crowd queuing associated with DT-1 placement of an entrance in the heart of campus will require site-specific mitigation plan for Seattle Center. Mitigation to include the replacement of displaced space with comparable space for Seattle Center's use; and a long-term operating agreement between the City of Seattle and Sound Transit to govern the management of issues like safety, security, maintenance, and crowd queuing for this station entrance.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.


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595	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4	Julia Levitt	Seattle Center	Analysis is incomplete. Several significant impacts are missing. Missing impacts include temporary loss of event-related parking and loading on adjacent streets including Republican St. between 1st Ave. N. and Warren St., and Warren Ave. N. between Republican St. and Mercer St. during DT-1 construction. These parking and loading areas are important for ADA access, school bus access, and event equipment and artist/performer access particularly for campus events and tenants of the Northwest Rooms.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
596	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4	Julia Levitt	Seattle Center	The analysis of impacts to Seattle Center tenants is incomplete and inadequately described. Seattle Rep, KEXP, SIFF and Vera Project will not be able to maintain operations during construction of the DT-1 Seattle Center station as stated in the analysis. Detailed construction impact mitigation plan, schedule coordination and robust communication will be needed to ensure operation of KEXP, SIFF, Vera Project and Seattle Rep during the construction period. Coordination and investment will need to begin months or years in advance to facilitate temporary relocation that is sufficient to allow these tenants to continue their highly specialized and technical operations including live theater performance, audio and video recording, broadcasting, and live music performance.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
597	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4	Julia Levitt	Seattle Center	The analysis of impacts to Seattle Center is incomplete and inadequately described. Seattle Center campus, outdoor public recreational space, outdoor event space, Seattle Rep, the Northwest Rooms, and Cornish Playhouse will experience permanent impacts if the DT-1 station and east entrance are built as described in the DEIS Appendix J. The large station box and its mechanical and circulation structures will permanently obstruct Seattle Rep and inhibit the theater company's full use of their building. Seattle Center campus will experience permanent loss of space that is heavily used for operations and events. The campus will experience permanent operational impacts in order to accommodate the needs of a light rail station entrance close to the heart of the grounds.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
598	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4.	Julia Levitt	Seattle Center	The information provided is inadequate to fully describe temporary impacts of street closures during construction. Full closure of Republican St. for up to 6 years, partial closure of Mercer St. for 3.5 years, and closures on Harrison between 6th Ave N. and Dexter will generate traffic impacts that may decrease attendance and revenues for Seattle Center and its resident arts and cultural organizations to the point where these organizations cannot remain solvent. Displacement of loading areas will impact events and festivals for Seattle Center, and the core operations of resident organizations including KEXP and The Vera Project. Impacts to parking garages will cause loss of operating revenues for Seattle Center and decreased attendance at large events. Mitigation must include adequate temporary replacements for displaced loading and bus parking spaces.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
599	Parks and Recreational Resources	4.3.17-19	4.3.17.4.4.	Julia Levitt	Seattle Center	Mitigation is not thoroughly described. Impacts of street closures during construction will cause financial impacts to Seattle Center and its resident arts and cultural organizations and will require financial mitigation in the form of replacement for lost revenues. Please include analysis of financial impacts to tenants that may be relocated or experience significant construction disruption, and mitigation of these impacts, in the FEIS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
600	Public Services, Safety and Security	4.3.14-15	4.3.14.4.4	Gretchen Lenihan	Seattle Center	Road closures for construction of the Seattle Center station for DT-1 would block fire access to Vera & SIFF. I believe there may also be standpipes that may be affected by cut-and-cover construction in this area.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
601	Public Services, Safety and Security	X	Table 4.3.14-1.	Gretchen Lenihan	Seattle Center	Seattle Center should be included as a service provider on this table. The Armory in particular provides services to the public, as do the grounds and Alki restrooms. Seattle Center operates emergency shelter facilities for the community as needed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
602	Social Resources, Community Facilities, and Neighborhoods	Page 4.3.4-23	4.3.4.4.4	Delia Tyrrell / Gretchen Lenihan	Seattle Center	Information necessary to identify impacts and compare alternatives is missing. Construction of the east entrance to the D-1 Seattle Center station would displace outdoor event activity and severely impact the functionality of the 2nd Ave N./August Wilson Way intersection for large vehicles that support events at Theatre Commons, North Fountain Lawn, and elsewhere on the north end of campus. These are critical operational corridors for Seattle Center crews. Access for event and maintenance vehicles must be maintained through that intersection in all directions throughout construction. This loss could be permanent once the construction of this station entry is completed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
603	Social Resources, Community Facilities, and Neighborhoods	Page 4.3.4-23	4.3.4.4.4	Delia Tyrrell	Seattle Center	When discussing the construction impacts of DT-1, our noise and vibration analysis has found that the noise and vibration levels proposed by Sound Transit during construction and operations are significantly higher than the existing noise and vibration thresholds at Seattle Rep, The Cornish Playhouse, The Vera Project, SIFF, and K.E.X.P. Because of this, please change language to state that these facilities will be affected by construction noise and vibration and temporary relocation may be a necessary mitigation.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
604	Social Resources, Community Facilities, and Neighborhoods	4.3.4-23	4.3.4.4.4	Gretchen Lenihan	Seattle Center	DEIS claims that D-2 cuts off access to Seattle Rep from the west; however, Mercer Garage and all audience access points are on the east side of the Seattle Rep building, which would be much more directly impacted by DT-1 station construction. Construction impacts of the east entrance for DT-1 would be significantly more disruptive for more organizations on the campus than DT-2 construction. Suggest that the DEIS de-emphasize the perceived impacts to Seattle Center of D-2 compared to D-1.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
605	Social Resources, Community Facilities, and Neighborhoods	4.3.4-23	4.3.4.4.4	Gretchen Lenihan	Seattle Center	2nd Ave N is a significant vehicle as well as pedestrian corridor across campus and links several vital resources for Seattle Center operational crews and large community events.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
606	Social Resources, Community Facilities, and Neighborhoods	4.3.4-18	4.3.4.3.4	Deborah Daoust	Seattle Center	Delete "particularly with Preferred Alternative DT-1" since the statement is not necessarily true given the small distance between the two proposed stations.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
607	Social Resources, Community Facilities, and Neighborhoods	4.3.4-23	4.3.4.4.4	Deborah Daoust	Seattle Center	Add Cornish Playhouse, Pacific Northwest Ballet (Phelps Center), Exhibition Hall, and Classical KING FM to list of organizations potentially impacted by vibration in DT-2.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
608	Social Resources, Community Facilities, and Neighborhoods	4.3.4-18	4.3.4.3.4	Julia Levitt	Seattle Center	The description of transportation benefits in the analysis is misleading. The analysis states, "The Alternative DT-2 Seattle Center Station would require passengers to cross a roadway to access Seattle Center, whereas the Preferred Alternative DT-1 Seattle Center Station would not." If the DT-2 Seattle Center alternative is built, there will be an entrance south of Mercer St. that would allow passengers to walk to Seattle Center on Warren Ave N., which is a quiet side street. Access for passengers from DT-2 involves a few more feet of distance versus DT-1, but it is not meaningfully more difficult or dangerous. Please revise the analysis in the FEIS by deleting the phrase "particularly with Preferred Alternative DT-1" and revising the following sentence to more accurately describe the condition on Warren Ave. N., or deleting.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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609	Social Resources, Community Facilities, and Neighborhoods	4.3.4-18	4.3.4.3.4	Julia Levitt	Seattle Center	The analysis is missing references to impacts at Seattle Center. DT-1 would permanently impact social/cultural resources on the Seattle Center campus, including cultural institutions on the grounds. These institutions provide significant services to the public, including educational programs and free/reduced rate programming, and contribute greatly to the artistic and cultural life of the region. Successful operation of events at Seattle Center also affects patronage of nearby small businesses in Uptown. The station entrance will significantly impact Seattle Rep and the Northwest Rooms with ground borne vibration and permanent entrance-related noise, aesthetic and access impacts. Without mitigation, construction impacts; permanent noise/vibration impacts; and displacement of events associated particularly with the DT-1 Seattle Center station alternative will impact institutions, events, and public space at Seattle Center campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
610	Technical Report: Noise and Vibration	N.3E-22h		Delia Tyrrell	Seattle Center	There should be a vibration impact outline around Seattle Rep and Cornish Playhouse in this figure.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
611	Technical Report: Noise and Vibration	5-11	Table 5-1	Seattle Center	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. The WSBL DEIS does not includes the following list of sensitive receivers with the Seattle Center Campus: Climate Pledge Arena, 401 Mercer Street, Live music and sports venue MoPOP, 363 Mercer Street, Museum of popular culture, live music and other performances, recording Memorial Stadium, 321 Mercer Street, Live music performances, sports venue Seattle Repertory Theater, 155 Mercer Street, Additional noise-sensitive rehearsal space not included KEXP, 472 1st Ave N, Number of recording suites not correct A/NT Art Gallery, 305 Harrison Street, Art Gallery By excluding the above facilities, the noise and vibration assessment cannot be considered complete for assessment of impacts. The above facilities need to be included for a full assessment of noise and vibration impacts from the construction and operation of alternatives DT1 and DT2.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
612	Technical Report: Noise and Vibration	6-37	6.2.3	Seattle Center	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. The WSBL DEIS assessment of noise and vibration impacts from construction and operation of DT1 and DT2 has not been completed for the following facilities: -Climate Pledge Arena -MoPOP -Memorial Stadium -Seattle Repertory Theater rehearsal space (DT1) and Bagley Wright Theater (DT2) -KEXP additional recording spaces -A/NT Art Gallery An assessment of potential for significant impacts to these facilities and/or spaces within these facilities should be completed of operation and construction of DT1 and DT2. Therefore, the DEIS noise and vibration assessment of both operations and construction is considered incomplete.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
613	Technical Report: Noise and Vibration	6-37	6.2.3	Seattle Center	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing are exhaust fans. The WSBL DEIS includes a list of construction equipment that were evaluated for airborne construction noise impact (see DEIS Appendix N.3, Table 6-7, p. 6-30). The equipment are based on the FTA 2018 Manual. Excluded from the list of equipment is noise emission levels from exhaust fans that would operate up to 24 hours per day. From DEIS Section 2.6.6, p 2-88: "fans could run for 24 hours a day and could be audible at tunnel portals, stations, or access locations" Further, DEIS Appendix N.3, From DEIS Section 6.2.3.2, p 6-8: "Ventilation fans may also run 24 hours per day at tunnel portals, stations, and access areas to supply fresh air into the tunnel." DT1 tunnel portals would be located very close to Seattle Center tenants The Rep and Cornish Playhouse. Access areas are not yet defined. Fans therefore would operate at these portals and access area to exhaust air up to 24 hours per day during this construction phase. Therefore, the DEIS construction airborne noise impact assessment is considered incomplete because it does not identify the sound level of this source, or further assess how they would operate and where they would operate within the portal. Mitigation measures for fans should be included in an updated assessment that includes exhaust fan noise. Such mitigation measures could include quieter fan models, strategic placement of fans, silencers, barriers, or other measures. Further, the EIS should include specific language within the Construction Noise and Vibration Control Plan regarding exhaust fan noise.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
614	Technical Report: Noise and Vibration	6-37	6.2.3	Seattle Center	Seattle Center	The analysis is incomplete. Several significant impacts have not been identified. Missing are haul routes. Haul routes are not analyzed in the DEIS. Airborne noise from trucks moving spoils away from the DT1 or DT2 tunnel portals could represent a major source of noise during excavation. WSBL DEIS Section 2.6.6 p. 2-88 states "truck hauling would require a loading area, staging space for trucks awaiting loading, and provisions to prevent tracking soil on public streets. Truck haul routes and trucking hours would require approval by the City of Seattle. Surface hauling could occur at night during off-peak traffic periods or could be concentrated during the day to minimize noise in noise-sensitive areas." Although it may be too early in the process to define haul routes or hours of hauling, the assessment does not address the potential for noise impact from trucks moving within the vicinity of the Seattle Center. Therefore, the DEIS construction airborne noise impact assessment is considered incomplete because it does not include an assessment of noise from haul trucks. Mitigation measures should be included in an updated assessment that includes haul truck noise. Mitigation measures could include enforcing truck hauling hours that minimize the potential for noise impact during sensitive hours. Further, mitigation measures should include coordination with Seattle Center resident organizations. Finally, the EIS should include specific language within the Construction Noise and Vibration Control Plan regarding haul routes.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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615	Technical Report: Noise and Vibration	6-37	6.2.3	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. Missing are staging areas. Noise from construction staging areas are not analyzed in the DEIS. Airborne noise from equipment moving within and to/from staging areas could represent a major source of airborne noise during construction. Although it may be too early in the process to define staging areas, the assessment does not address the potential for noise impact from staging areas or which areas are currently being considered by Sound Transit. Therefore, the DEIS construction airborne noise impact assessment is considered incomplete because it does not address construction staging areas.</p> <p>Mitigation measures should be included in an updated assessment that includes staging area noise. Mitigation measures could include strategic location of staging areas to minimize impact from noise emissions related to staging areas, noise barriers, and other measures as defined under WSBL DEIS Section 7.2.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
616	Technical Report: Noise and Vibration	6-38	6.2.3.2	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. Missing are cut and cover. The WSBL DEIS Appendix N.3, Section 6.2.3.2, p. 6-38, indicates that cut-and-cover construction of DT-1 would likely result in airborne construction noise impacts at Northwest Rooms, including KEXP, SIFF Film Center, Vera, and A/NT Art Gallery, as well as The Rep and Cornish. Construction noise impacts from DT2 would result in impact to The Rep and Cornish.</p> <p>WSBL DEIS Appendix N.3, Table 6-8, p. 6-31, identifies predicted sound level from types of construction activities. Included is Cut-and-Cover Station Construction, where sound levels at 50 feet would range from 84 dBA to 88 dBA. Equipment that would generate these levels of noise include excavators, backhoes, haul trucks, and vibratory rollers.</p> <p>WSBL DEIS Appendix N.3, Table 6-30, p. 6-70, summarizes vibration predictions at several Seattle Center facilities include KEXP, Vera, SIFF, The Rep, and Cornish. For each, Table 6-30 indicates equipment could operate as near as 8 feet from these buildings.</p> <p>Adjusting for distance from 50 feet based on an approximate increase of 6-dBA per halving of distance to a stationary noise source, the range of sound levels from equipment identified in Table 6-8 during cut-and-cover construction, when 8 feet away from Seattle Center facilities, would range from 100 to 104 dBA. This could result in impacts at interior spaces of KEXP, Vera, SIFF, The Rep, and Cornish. The DEIS assessment of airborne noise impact during cut-and-cover construction is considered incomplete because it does not address potential for high levels of noise at Seattle Center buildings that could exceed the City of Seattle noise limits for construction, as identified in the Seattle Municipal Code and as are summarized in WSBL DEIS Appendix N.3, Table 3-4, p. 3-7.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
617	Technical Report: Noise and Vibration	6-65	Table 6-25	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. WSBL DEIS Appendix N.3, Table 6-25 (p. 6-65) and Table 6-27 (p. 6-67), summarize vibration and groundborne noise impacts from construction, respectively. There are multiple elements regarding the assessment of tunneling groundborne noise and vibration that are incomplete or warrant a more detailed assessment. Missing are tunneling equipment. WSBL DEIS Appendix N.3, Section 6.4.1.2 and Table 6-26 (p. 6-66) identify equipment that would generate the highest levels of vibration during tunneling, including the boring machine cutterhead, thrust-jack retraction, and supply trains with steel wheels.</p> <p>In the footnote of Table 6-27 (p. 6-67), the DEIS states:</p> <p>"The predicted levels for the thrust-jack is more than 5 dB below the impact threshold for all sensitive receivers."</p> <p>Groundborne noise level predictions for thrust jack retraction is not provided in the DEIS. However, a range of levels is provided, as measured between 0 and 200 feet, in Table 6-26 (p. 6-66). The range of levels is 13 to 29 dBA. The range of levels for supply trains on steel tracks is 24 to 28 dBA. While the average levels of groundborne noise for supply trains is clearly higher than for thrust jack retraction, there is potential for thrust jack retraction to generate levels as high as supply trains, according to Table 6-26.</p> <p>The DEIS does not assess further the potential for impact from thrust jack retraction on vibration or groundborne noise. Therefore, the DEIS assessment of vibration and groundborne noise from tunneling equipment is considered incomplete.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
618	Technical Report: Noise and Vibration	6-65	Table 6-25	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. WSBL DEIS Appendix N.3, Table 6-25 (p. 6-65) and Table 6-27 (p. 6-67), summarize vibration and groundborne noise impacts from construction, respectively. There are multiple elements regarding the assessment of tunneling groundborne noise and vibration that are incomplete or warrant a more detailed assessment. Missing are vibration limits.</p> <p>WSBL DEIS Appendix N.3, Table 6-25, p. 6-65, identifies vibration limits for sensitive receivers at Seattle Center. The limits for the Rep are identified as 72 VdB based on FTA thresholds for "theaters", as summarized in the DEIS Appendix N.3, Table 3-8 (p. 3-10). However, Seattle Center notes that the Leo K. Theater has a very low threshold for impact from vibration, akin to more stringent limits that would apply to concert halls (i.e., 65 VdB). Because the impact assessment is based on the potential for disruption of use, the vibration limit for The Rep should be corrected to more accurately represent this space.</p> <p>Correcting to a more appropriate vibration limit at The Rep would result in impacts from DT1 during supply train operation. Therefore, the DEIS assessment of vibration from tunneling equipment is considered incomplete and needs to be corrected and then re-evaluated, including considerations for mitigation.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
619	Technical Report: Noise and Vibration	6-67	Table 6-27	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. WSBL DEIS Appendix N.3, Table 6-25 (p. 6-65) and Table 6-27 (p. 6-67), summarize vibration and groundborne noise impacts from construction, respectively. There are multiple elements regarding the assessment of tunneling groundborne noise and vibration that are incomplete or warrant a more detailed assessment. Missing are groundborne noise limits. WSBL DEIS Appendix N.3, Table 6-27, p. 6-67 includes groundborne noise limits for Seattle Center spaces. The limits are summarized in the DEIS Appendix N.3, Table 3-8 (p. 3-10) and based on the type of use. The limits identified for SIFF and Vera are 40 dBA, assumed to be considered Category 3 buildings (see DEIS Appendix N.3, Table 3-9, p. 3-11), which are institutional lands with primarily daytime use.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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620	Technical Report: Noise and Vibration	6-67	Table 6-27	Seattle Center	Seattle Center	<p>The analysis is incomplete. Several significant impacts have not been identified. WSBL DEIS Appendix N.3, Table 6-25 (p. 6-65) and Table 6-27 (p. 6-67), summarize vibration and groundborne noise impacts from construction, respectively. There are multiple elements regarding the assessment of tunneling groundborne noise and vibration that are incomplete or warrant a more detailed assessment. Missing are discrepancy on groundborne noise limits.</p> <p>WSBL DEIS Appendix N.3, Table 6-13 (p. 6-52) and Table 6-14 (p. 6-54) identify groundborne noise limits for light rail operation as follows:</p> <ul style="list-style-type: none"> -Cornish: 35 dBA -The Rep Leo K Theater: 35 dBA -SIFF Film Center: 35 dBA -Vera Recording Booth: 30 dBA <p>The limits identified for the same receivers in Table 6-27 are as follows:</p> <ul style="list-style-type: none"> -Cornish: 35 dBA -The Rep Leo K Theater: 35 dBA -SIFF Film Center: 40 dBA -Vera Recording Booth: 40 dBA <p>While the limits for Cornish and The Rep are the same under both operation and construction, the limits for SIFF and Vera are higher for construction than for operation.</p> <p>Section 6.4 p 6-63 states: "The vibration from tunneling muck and support trains are compared to the FTA criteria for operations because this can be a long-term activity" and "Category 1 and special-use buildings are evaluated using the FTA criteria for operations for all construction activities, because exceedances of those limits may interfere with operations inside the building". The same criteria should be applied for both construction and operation.</p> <p>The DEIS assessment of groundborne noise from tunneling equipment is therefore considered incomplete because it does not apply correct limits consistent with FTA policy.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
621	Technical Report: Noise and Vibration	6-67	Table 6-27	Seattle Center	Seattle Center	<p>The analysis is incomplete. There are errors in distances to receivers. WSBL DEIS Appendix N.3, Table 6-25 (p. 6-65) and Table 6-27 (p. 6-67) include distances from receivers to tunnel centerlines that appear incorrect:</p> <ul style="list-style-type: none"> -Table 6-25. Distance from KEXP to centerline at DT-1 listed at 11 feet. -Table 6-27. Distance from Vera and KEXP to centerline at DT-1 listed at 507 feet <p>Although these errors may be simply typos, the analysis should be reviewed to ensure errors were not carried through calculations of impact.</p> <p>The DEIS assessment of groundborne noise from tunneling equipment is therefore considered incomplete because there are clear errors that need to be resolved.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
622	Technical Report: Noise and Vibration	6-67	Table 6-27	Seattle Center	Seattle Center	<p>The analysis is incomplete. There are missing sensitive receivers. MoPOP, The Climate Pledge Arena, Memorial Stadium, and A/NT Air Gallery are considered potentially sensitive receivers to groundborne noise during tunneling operations and neither were included in the assessment of impacts.</p> <p>Climate Pledge Arena is approximately 175 to nearest DT-1 track, and approximately 225 feet to farther track. Further, the Climate Pledge Arena is below grade and would have a more direct linear path to the tunnelling equipment than surface-level buildings.</p> <p>MoPOP is approximately 150 feet to nearest track, approximately 200 feet to farther track. MoPOP host exhibits and performances that may be impacts by groundborne noise.</p> <p>Memorial stadium is located approximately 75 feet directly above the DT-1 alignment and could experience impacts from tunnel construction.</p> <p>AN/T Art Gallery is located approximately 115 feet from the DT-1 alignment and could be impacted from DT-1 tunnel construction.</p> <p>The DEIS assessment of groundborne noise from tunneling equipment is therefore considered incomplete because not all sensitive spaces within the Seattle Center have been included in the assessment.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
623	Technical Report: Noise and Vibration	6-70	Table 6-29	Seattle Center	Seattle Center	<p>The analysis is incomplete. WSBL DEIS Appendix N.3, Table 6-29, p. 6-70, identifies distances for impact to special use buildings. The minimum distance for least sensitive spaces (i.e., V.C.-A) is greater than would be realized at KEXP, Vera, SIFF, The Rep and Cornish for the equipment identified in this table.</p> <p>Section 6.4.2.2, p. 6-70 states that:</p> <p>"Surface construction vibration has not been assessed for Category 1 or special-use buildings neat tunnel alignments, However, vibration from surface construction may be of concern if these buildings are close to the tunnel portals or station construction. These activities should be assessed in the Construction Vibration Control Plan"</p> <p>Given the degree of impact that may occur from surface vibration during construction (see Table 6-29 and 6-30), a more detailed assessment of mitigation measures should have been included in the DEIS beyond requiring future assessments.</p> <p>The DEIS assessment of surface vibration from construction therefore considered incomplete because it does not adequately address the potential for high levels of impact at nearby facilities including KEXP, Vera, SIFF, The Rep, and Cornish.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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624	Technical Report: Noise and Vibration	6-52	Table 6-13	Seattle Center	Seattle Center	<p>WSBLE DEIS Appendix N.3, Table 6-13 (p. 6-51) and 6-14 (p. 6-53) identifies vibration limits for sensitive receivers at Seattle Center during operation. The limits for the Rep are identified as 72 VdB based on FTA thresholds for "theaters", as summarized in the DEIS Appendix N.3, Table 3-8 (p. 3-10). However, Seattle Center notes that the Leo K. Theater has a very low threshold for impact from vibration, akin to more stringent limits that would apply to concert halls (i.e., 65 VdB). Because the impact assessment is based on the potential for disruption of use, the vibration limit for The Rep should be corrected to more accurately represent sensitivities of this space that are germane to its use.</p> <p>Correcting to a more appropriate vibration limit at The Rep would result in impacts from DT1 during operation of DT-1. Therefore, the DEIS assessment of vibration from operation is considered incomplete and needs to be corrected and then re-evaluated, including additional considerations for mitigation.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
625	Technical Report: Noise and Vibration	6-52	Table 6-13	Seattle Center	Seattle Center	<p>The groundborne noise limit for The Rep is incorrect and should have been set to 25 dBA, the FTA Special Buildings limit for a concert hall, and not based on the 35 dBA limit for a theater. Experience from The Rep during construction of the Climate Pledge Arena suggests the Leo K. Theater is highly sensitive to groundborne noise intrusion due to the low ambient noise levels. The DEIS measurements in Attachment N.3H Table 7-1 (p. 7-3) indicated ambient levels were 30 dBA, 5-dBA lower than what was applied in Tables 6-13 and 6-14. Further, measurements taken recently in 2022 indicate ambient levels are 25 dBA.</p> <p>At SIFF, ambient noise levels measured in 2022 indicated baseline levels are 30 dBA, suggesting an even lower groundborne noise limit may be appropriate for the SIFF Film Center.</p> <p>Correcting to a more appropriate groundborne noise limit at The Rep and SIFF would result in a higher degree of impacts at The Rep and SIFF for DT-1. For DT-2, correcting the limit at The Rep would result in impacts to this space. Therefore, the DEIS assessment of groundborne noise from operation is considered incomplete and needs to be corrected and then re-evaluated, including additional considerations for mitigation.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
626	Technical Report: Noise and Vibration	6-51	Table 6-13	Seattle Center	Seattle Center	<p>WSBLE DEIS Appendix N.3, Table 6-13 (p. 6-51) and 6-14 (p. 6-53) identify the train speeds that were assumed in the calculations of groundborne noise and vibration. There are some inconsistencies or potentially errors or further clarifications required.</p> <p>For DT1, train speed through the Seattle Center campus is assumed to be 45 mph at all receivers except: -30 mph at The Rep Leo K and Vera -55 mph at KEXP</p> <p>For DT2, train speed through the Seattle Center campus is assumed to be 45 mph at all receivers except: -30 mph at KEXP DJ booth</p> <p>The DEIS assessment of groundborne noise and vibration from operation is considered incomplete and needs to be corrected or further detailed to ensure that calculations made to predict groundborne noise and vibration were based on appropriate train speeds.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
627	Technical Report: Noise and Vibration	6-51	Table 6-13	Seattle Center	Seattle Center	<p>MoPOP, The Climate Pledge Arena, Memorial Stadium, and AN/T Air Gallery are considered potentially sensitive receivers to groundborne noise during tunneling operations and neither were included in the assessment of impacts.</p> <p>Climate Pledge Arena is approximately 175 to nearest DT-1 track, and approximately 225 feet to farther track. Further, the Climate Pledge Arena is below grade and would have a more direct linear path to the DT-1 rail line.</p> <p>MoPOP is approximately 150 feet to nearest track, approximately 200 feet to farther track. MoPOP host exhibits and performances that may be impacted by groundborne noise from rail operation.</p> <p>Memorial stadium is located approximately 75 feet directly above the DT-1 alignment and could experience impacts from operation.</p> <p>AN/T Art Gallery is located approximately 115 feet from the DT-1 alignment and could be impacted from DT-1 operation.</p> <p>The DEIS assessment of groundborne noise from operation therefore considered incomplete because not all sensitive spaces within the Seattle Center have been included in the assessment.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
628	Technical Report: Noise and Vibration	7-16	7.2	Seattle Center	Seattle Center	<p>Mitigation measure(s) for identified impacts are missing from the DEIS. WSBL DEIS Appendix N.3, Section 7.2 (p. 7-16) identifies standard mitigation measures for construction noise. Not included in the list of mitigation measures are: -Tunnel ventilation fans: potential options include silencers, barriers, or other measures -Material haul truck: haul trucks routes require a detailed assessment to determine if mitigation is warranted</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
629	Technical Report: Noise and Vibration	7-31	7.4.1	Seattle Center	Seattle Center	<p>Mitigation measure(s) for identified impacts are missing from the DEIS. WSBL DEIS Appendix N.3, Section 7.4.1 (p. 7-31) identifies surface vibration mitigation measures including pre-construction surveys, construction timing, equipment location, continuous monitoring, and alternative construction methods. These measures should be very clearly detailed and updated once a more detailed assessment of surface vibration measures is completed. Given the high level of potential surface vibration impact that could occur, mitigation of surface vibration will be of paramount importance for organizations at Seattle Center.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
630	Technical Report: Noise and Vibration	7-32	7.4.2	Seattle Center	Seattle Center	<p>Mitigation measure(s) for identified impacts are missing from the DEIS. WSBL DEIS Appendix N.3, Section 7.4.2 (p. 7-32) identifies tunneling vibration mitigation measures to reduce the potential for vibration and groundborne noise impact during tunneling. Efforts are focused on mitigating supply train vibration, including reduced supply train speeds, smooth running surfaces, reduce gaps between rail sections, adding rubber pad between ties, and using rubber tire supply trains.</p> <p>Given the high level of impact that may occur due to the supply train, a more thorough assessment mitigation measures should be evaluated.</p> <p>Thrust-jack mitigation may also be warranted (i.e., slower retraction) once a more detailed assessment of the potential for impact from this activity is completed.</p> <p>Further, The Construction Vibration Management Plan should be prepared to consider scheduling tunneling activities that avoid impact to nearby facilities including KEXP, Vera, SIFF, The Rep, Cornish, and possibly additional facilities such as MoPOP or Climate Pledge Arena.</p> <p>The mitigation section for tunneling does not address additional items such as the expanded tunnel area under the Northwest Rooms that could result in impact to KEXP, Vera, and SIFF. This DEIS should include detailed assessment of potential mitigation options that are specific to this location as it is unique in nature and has several sensitive uses that operate during all hours.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
631	Technical Report: Noise and Vibration	7-27	7.3.2.2	Seattle Center	Seattle Center	<p>WSBL DEIS Appendix N.3, Section 7.3.2.2 (p. 7-27) identifies DT1 operational groundborne noise and vibration mitigation measures to mitigate impacts at "recording studios and performances spaces in Seattle Center" (Section 7.3.2.2., p.7-26). Included are:</p> <p>-DT-1: High Resilience Fasteners along a limited stretch of 900 feet of track</p> <p>Impacts are predicted at KEXP, Rep, Vera, and SIFF, up to 13 dBA per Table 6-13 (p. 6-52). If using corrected thresholds, impacts could reach 23 dBA over limits.</p> <p>Mitigation using high resilience fasteners is insufficient. Assessment should consider additional or alternative measures such as floating slabs and thicker concrete under the track.</p> <p>The following figure provides an illustration of the approximate extent of operational groundborne noise and vibration mitigation for DT-1 (high resilience fasteners). This location could be expanded if needed, and could include more effective means of mitigation such as floating slabs or thicker concrete under the tracks.</p>  <p>For DT2, operational vibration Impacts are not predicted in the DEIS (see Table 6-14) and no mitigation is proposed through the Seattle Center. However if the groundborne noise limit for The Rep is corrected to 25 dBA, impacts may occur. And therefore, an assessment of mitigation measures would be warranted such as through use of high resilience fasteners.</p>	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
632	Utilities	4.3.15-5	4.3.15.4.4	Donna Golden	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. Missing is that DT-1 would conflict with utilities provided by Seattle Center Utility Plant to Seattle Repertory Theatre, Cornish Playhouse, SIFF, The VERA Project and KEXP. It would also affect fiber optic telecommunications, combined sewer, and water.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
633	Utilities	4.3.15-2	4.3.15.3	Jae Lee	Seattle Center	Seattle Center's sewer, water main, and chilled water/steam lines may need to be relocated prior to the construction. Mitigation for campus impacts could include working with the City to upgrade the Seattle Center Central Utility Plant to electricity, in line with the Mayor's city-wide electrification initiative.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
634	Utilities	4.3.15-1	Table 4.3.15-1	Jae Lee	Seattle Center	Seattle Center has its own central utility plant and utilities on the campus (sewer, water main and chill/steam lines), managed separately from SPU. Seattle Center can provide documentation of those systems to Sound Transit for study if information is needed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
635	Utilities	4.3.15-2	4.3.15.3	Jae Lee	Seattle Center	DT1 would require relocation of existing Seattle Center utilities. Please also confirm whether enabling work for DT-1 Seattle Center station will impact the Seattle Center campus.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
636	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Gretchen Lenihan	Seattle Center	Station entry and tunnel vents as shown for DT-1 would block views and aesthetics between Seattle Center campus and Seattle Rep lobby spaces that were designed with views in mind.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
637	Water Resources	4.3.8-5 & 4.3.8-6	4.3.8.3 & 4.3.8.3.4	Donna Golden	Seattle Center	Due to glacial till in the area, there are concerns that cut-and-cover sites as well as new structures would change the subsurface groundwater flow as well as perched groundwater causing unanticipated subsidence at the fill areas.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
638	Water Resources	4.3.8-5 & 4.3.8-6	4.3.8.3 & 4.3.8.3.4	Donna Golden	Seattle Center	Description of impacts and mitigation are missing information. Missing information includes: Because the project will increase impervious surface areas, there will be opportunities to incorporate bioswales and pervious pavements in the station design to maintain some of the groundwater infiltration and reduce the installation of pollutant-generating surfaces. This would also assist in stormwater management without the use of flow control boxes or detention type systems, and be consistent with the sustainability principle of the Seattle Center Master Plan.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
639	CH 3 Transportation	3-109	3.15.3.1	Gretchen Lenihan	Seattle Center	If DT-2 option for Seattle Center station is pursued, mitigation for surge crowds and access to Seattle Center station could be accomplished by Sound Transit coordinating with Seattle Center and Seattle Rep to provide improvements to Warren Ave N, with careful thought and attention paid to the opportunity to redevelop the NW corner of the campus to create a more open plaza and welcoming environment at the northwest corner of campus. DT-2 east station entry is significantly more compatible with Seattle Center events and activity than the east entry for DT-1. If DT-1 tunnel alignment is selected, it would be very functional if the DT-1 line could be paired with the DT-2 Seattle Center east station entry location via underground tunnel.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
640	Parks and Recreational Resources	4.2.17-1	4.2.17.1	David Graves	SPR	There are six (6) trails, not five, in the West Seattle Link Extension study area. The Longfellow Creek Legacy Trail should be included with the other five trails listed.	West Seattle (DUW, DEL, WSJ)	Per this comment, the paragraph commented on has been revised to clarify that recreational trails are discussed later in the section. See Section 4.17.2 of the Final EIS.
641	Parks and Recreational Resources	4.2.17-21	4.2.17.6	David Graves	SPR	Junction Plaza Park was acquired with a King County Conservation Futures grant, mitigation would need to be replacement property in the West Seattle Junction, not just a cash payment.	West Seattle (DUW, DEL, WSJ)	Text in Section 4.17.2.4 and 4.17.7 for this park has been updated per this comment.
642	Parks and Recreational Resources	4.2.18-1	4.2.18.1	David Graves	SPR	There are six (6) trails, not five, in the West Seattle Link Extension study area. The Longfellow Creek Legacy Trail should be included with the other five trails listed. The Legacy Trail is used for recreation and should be identified as a recreational resource.	West Seattle (DUW, DEL, WSJ)	See response to comment 640.
643	Parks and Recreational Resources	4.3.14-16	4.3.14.4.5	David Graves	SPR	The Seattle Parks and Recreation Department West Central Maintenance Warehouse would also be displaced by Alternative SIB-3 and require relocation within the surrounding area. This facility is also critical to maintenance of the Central Waterfront as that facility comes on line. To avoid disruption of park maintenance, and park maintenance staff during construction, temporary or permanent relocation should be in place before construction starts in this area if Alt SIB-3 (permanent) or SIB-2 (temporary) are selected.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
644	Parks and Recreational Resources	4.3.14-17	4.3.14.6	David Graves	SPR	Mitigation should be explicitly stated/listed for impacts to Seattle Parks and Recreation's West Central Maintenance Warehouse from Alternative SIB-2 and/or SIB-3 in this section.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
645	Parks and Recreational Resources	4.3.17-6	4.3.17.1.2	David Graves	SPR	Hing Hay Park is comprised of two parcels plus an alley totaling approximately 0.7 acres	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
646	Appendix H - Section4(f) Evaluation	(2-12)	2.3.1.3	David Graves	SPR	SPR does not support option DEL-2a due to the permanent significant impacts of the tunnel portal on the West Seattle Golf course.	West Seattle (DUW, DEL, WSJ)	Please see response to CCG2 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
647	Appendix H - Section4(f) Evaluation	(2-12)	2.3.1.3	David Graves	SPR	SPR does not support option DEL-4 due to the permanent significant impacts of the tunnel portal on the West Seattle Golf course.	West Seattle (DUW, DEL, WSJ)	Please see response to CCG2 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
648	Appendix H - Section4(f) Evaluation	(2-15)	2.3.1.4	David Graves	SPR	SPR does not support option WSJ-3b due to the permanent loss of Junction Plaza Park associated with the construction of the Alaska Junction Station. Junction Plaza Park has been designed to provide both a destination and pass-through park in the junction of the traditional business and the growing mixed use area to the east. The park has also been designed as a resource for the community to be used for Junction Association festivals like the West Seattle Festival and intermittent programs.	West Seattle (DUW, DEL, WSJ)	Please see response to CCG2 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
649	Appendix H - Section4(f) Evaluation	(3-1)	3.1	David Graves	SPR	There are six (6) trails, not five, in the West Seattle Link Extension study area. The Longfellow Creek Legacy Trail should be included with the other five trails listed. The Legacy Trail is used for recreation and should be identified as a recreational resource.	West Seattle (DUW, DEL, WSJ)	This list of trails are those that are considered primarily transportation facilities, and therefore are not Section 4(f) resources. The Longfellow Creek Legacy Trail is considered a Section 4(f) resource and therefore is not included on this list.
650	Appendix H - Section4(f) Evaluation	Figure 3-1g		David Graves	SPR	Junction Plaza Park is not identified on the figure as a public park.	West Seattle (DUW, DEL, WSJ)	The label for the park was on these maps but the historic data layer made the park layer not visible. This has been updated/corrected for the Final EIS.
651	Appendix H - Section4(f) Evaluation	Figure 3-1h		David Graves	SPR	Junction Plaza Park is not identified on the figure as a public park.	West Seattle (DUW, DEL, WSJ)	The label for the park was on these maps but the historic data layer made the park layer not visible. This has been updated/corrected for the Final EIS.
652	Appendix H - Section4(f) Evaluation	(3-19)	3.2.2.1	David Graves	SPR	The value of the West Duwamish Greenbelt lies in the mature trees and forested nature of the park around Pidgeon Point. Permanent loss of mature trees and the inability to replant the trees completely takes the value of this area and it will be effectively converted to a transportation use. SPR does not concur with the de minimis determination. If this area was acquired with a King County Conservation Futures grant or a grant from RCO, mitigation would need to be replacement property in the area, not just a cash payment.	West Seattle (DUW, DEL, WSJ)	Per further coordination with Seattle Parks and Recreation, concurrence on de minimis was reached on April 25, 2024. Sound Transit has continued to coordinate with Seattle Parks and Recreation on mitigation for impacts to park resources as the project advances.
653	Appendix H - Section4(f) Evaluation	(3-21)	3.2.2.1	David Graves	SPR	The value of the West Duwamish Greenbelt lies in the mature trees and forested nature of the park around Pidgeon Point. Permanent loss of mature trees and the inability to replant the trees completely takes the value of this area and it will be effectively converted to a transportation use. SPR does not concur with the de minimis determination.	West Seattle (DUW, DEL, WSJ)	Per further coordination with Seattle Parks and Recreation, concurrence on de minimis status was reached on April 25, 2024.
654	Appendix H - Section4(f) Evaluation	(3-35)	3.2.3.1	David Graves	SPR	The elevated tracks at the north end of the golf course could be at risk from hit golf balls, depending on the option chosen. Once a preferred option is selected, additional study is necessary to determine the potential for golf balls to hit the trains or train tracks and appropriate measures incorporated into the project design to address this potential.	West Seattle (DUW, DEL, WSJ)	Netting to protect the tracks from golf balls is described in Appendix N.2, Visual and Aesthetics Technical Report, in the Final EIS.
655	Appendix H - Section4(f) Evaluation	(3-35)	3.2.3.1	David Graves	SPR	Golf revenues at West Seattle Golf Course are driven by players and number of tee times available - Loss of playing time during construction will have a direct impact on golf revenues and will need to be addressed with appropriate mitigation.	West Seattle (DUW, DEL, WSJ)	Comment noted. This coordination will occur if the project selected to be built by the Sound Transit Board would affect the golf course.
656	Appendix H - Section4(f) Evaluation	(3-51)	Table 3-8	David Graves	SPR	SPR does not agree with the de minimis determination of the impacts to the West Duwamish Greenbelt	West Seattle (DUW, DEL, WSJ)	Per further coordination with Seattle Parks and Recreation, concurrence on de minimis status was reached on April 25, 2024.
657	Appendix H - Section4(f) Evaluation	Figure 4-1c	Figure 4-1c	David Graves	SPR	The west half of Hing Hay Park is not identified as a park.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
658	Appendix H - Section4(f) Evaluation	(4-15)	Table 4-2	David Graves	SPR	Hing Hay Park is comprised of two parcels plus an alley totaling approximately 0.7 acres	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
659	Appendix H - Section4(f) Evaluation	(4-38)	4.2.3.1	David Graves	SPR	Portion(s) of Freeway Park were improved with a grant from RCO, If those areas of the park are impacted, mitigation would need to be replacement property in the area, not just a cash payment.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
660	Appendix H - Section4(f) Evaluation	(4-49)	4.2.4.1	David Graves	SPR	If area(s) within Kinnear Park were acquired with a King County Conservation Futures grant or improved with a grant from RCO, mitigation would need to be replacement property in the area, not just a cash payment and the covenant added to the new property.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
661	Appendix H - Section4(f) Evaluation	(4-54)	4.2.4.1	David Graves	SPR	The elevated tracks along the west side of the golf course could be at risk from hit golf balls, depending on the option chosen. Once a preferred option is selected, additional study is necessary to determine the potential for golf balls to hit the trains or train tracks and appropriate measures incorporated into the project design to address this potential.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
662	Appendix H - Section4(f) Evaluation	(4-54)	4.2.4.1	David Graves	SPR	Will the trains running along the west edge of the golf course cause noise and/or vibrations of the existing net and net poles that would adversely impact the experience of playing golf at the Interbay Golf Course?	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
663	Appendix H - Section4(f) Evaluation	(4-54)	4.2.4.1	David Graves	SPR	Golf revenues at Interbay Golf are driven by players and number of tee times available - Loss of playing time during construction will have a direct impact on golf revenues and will need to be addressed with appropriate mitigation.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
664	Appendix H - Section4(f) Evaluation	Figure 4-6	Figure 4-6	David Graves	SPR	If area(s) within the Southwest Queen Anne Greenbelt were acquired with a King County Conservation Futures grant or a grant from RCO, mitigation would need to be replacement property in the area, not just a cash payment and the covenant added to the new property.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
665	Appendix H - Section4(f) Evaluation	Attachment H.1	Table H.1-2	David Graves	SPR	Hing Hay Park is comprised of two parcels plus an alley totaling approximately 0.7 acres	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
666	Appendix H - Section4(f) Evaluation			David Graves	SPR	Part of the mitigation for impacts to park resources should be the reimbursement of Seattle Parks and Recreation staff time associated with any real estate transactions and legislation required as part of any mitigation package.	All (Systemwide)	Sound Transit has continued to coordinate with Seattle Parks and Recreation on mitigation for impacts to park resources as the project advances.
667	Utilities	4.2.15-5	4.2.15.6	PATTERSON	SPU	Disagree that "no impacts on major utilities are expected...and no mitigation would be needed."	All (Systemwide)	Comment noted. Because impacts can be minimized or avoided through coordination and best management practices, no mitigation is needed.
668	Utilities	4.3.8-5	4.3.8.3.1	PATTERSON	SPU	Footnote 1: when will the study be completed considering the final design is to begin in 2023?	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
669	Utilities	4.2.8-6	4.2.8.3.1	PATTERSON	SPU	Footnote 1: when will the study be completed considering the final design is to begin in 2023?	All (Systemwide)	The study referenced is still underway and Sound Transit will continue to coordinate with the Department of Ecology and the City of Seattle as appropriate.
670	Utilities	4.2.8-6	4.2.8.3.1	PATTERSON	SPU	Statement that guideways are non-pollution-generating is incorrect. The Washington State Department of Ecology (Ecology) has judged them to be pollution-generating surfaces pending results of the study referenced in Footnote 1. The default at this point is that they are pollution-generating and that should be stated clearly in the text. Sound Transit must comply with the City's Stormwater Code (SMC 22.800-22.808) based upon the most current determination by Ecology.	All (Systemwide)	The study referenced is still underway and Sound Transit will continue to coordinate with the Department of Ecology and the City of Seattle as appropriate.
671	Utilities	4.3.8-5	4.3.8.3.1	PATTERSON	SPU	Statement that guideways are non-pollution-generating is incorrect. The Washington State Department of Ecology (Ecology) has judged them to be pollution-generating surfaces pending results of the study referenced in Footnote 1. The default at this point is that they are pollution-generating and that should be stated clearly in the text. Sound Transit must comply with the City's Stormwater Code (SMC 22.800-22.808) based upon the most current determination by Ecology.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
672	Ch 2 Alternatives Considered	2-14	2.1.1.3.7	PATTERSON	SPU	Department of Ecology considers light rail as pollution generating and the design needs to account for water quality treatment of guideway runoff.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see Section 4.8, Water Resources, of the Final EIS for information on water quality treatment.
673	Ch 2 Alternatives Considered	2-88	2.6.6	PATTERSON	SPU	SPU prefers in-tunnel ground treatment instead of at the ground surface for soil freeze technique. At surface too disruptive and high risk for utility movement and subsequent damage due to soil heave.	All (Systemwide)	Seattle Public Utilities' preference has been noted.
674	Ch 2 Alternatives Considered	2-85	2.6.2	PATTERSON	SPU	Note that temporary disruptions of utility services to customers is an impact of utility relocation	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see Section 4.15, Utilities, of the Final EIS for information on utility relocation.
675	Ch 2 Alternatives Considered	2-88	2.6.6	PATTERSON	SPU	Provide more discussion of why stabilizing the ground is necessary - potential for damage to utilities and other structures.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see Section 4.11, Geology and Soils, of the Final EIS for information on slope stability.
676	Ch 2 Alternatives Considered	2-85	2.6.2	PATTERSON	SPU	Provide discussion of potential ground movement resulting from dewatering and effective mitigation methods that may be employed.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Please see Section 4.11, Geology and Soils, of the Final EIS for information on ground movement and Section 4.8, Water Resources, of the Final EIS for information on groundwater.

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677	Utilities	4.2.15-3	4.2.15.4.1	PATTERSON	SPU	"Sound Transit did not evaluate or inventory impacts to minor utilities but will evaluate and inventory them as the project design progresses from preliminary to final design." The document should note that extensive impacts to "minor utilities" may be expected.	All (Systemwide)	Added "Additional impacts would occur from minor utility relocations and would be coordinated with utility providers and the City of Seattle."
678	Utilities	4.3.15-6	4.3.15.6	PATTERSON	SPU	Disagree with statement of "no impacts on major utilities". Example - 14th Ave NW has a major storm drain that may be impacted. Example - all alternatives impact large combined sewer in Royal Brougham Way S during construction.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
679	Ecosystems	Various	4.2.9. Ecosystems	ANTIEAU	SPU	This section contains various statements regarding tree removals . These statements refer to a tree diameter threshold of 6 inches; for example: "Removing street trees with trunks larger than 6 inches in diameter during maintenance activities would require coordination with the City of Seattle." These statements are imprecise and misleading. There is no diameter threshold for the removal of street trees. ("Street trees" are located only in street rights-of-way.) Further, it appears these statements do not successfully capture the intended concept. All tree removals would be reviewed by the City of Seattle if those removals occur in street rights-of-way ("street trees") and in environmentally critical areas (ECAs) on non-right-of-way parcels. Depending on the specific trees to be removed, the City may also review proposed tree removals outside of ECAs on non-right-of-way parcels. For trees to be removed in street rights-of-way and in ECAs, the City requires mitigation in the form of tree replacement. For tree removal ins ECAs, the City requires evidence the applicant has undertaken mitigation sequencing and is providing mitigation that achieves replacement of lost ecological function.	West Seattle (DUW, DEL, WSJ)	Section 4.9, Ecosystems, of the Final EIS and Appendix N.4, Ecosystems Technical Report, have been revised to be more specific and inclusive of all tree diameters and types and to remove the 6 inch diameter statement.
680	Water Resources	4.2.8-1	4.2.8.1	ANTIEAU	SPU	Statement "...West Seattle Greenbelt, a vegetated slope....." is imprecise and misleading. Statement should more specifically highlight the importance of this feature: "...West Seattle Greenbelt, the City of Seattle's largest contiguous forest..."	West Seattle (DUW, DEL, WSJ)	Text is accurate and appropriate for water resources section. Additional information about the greenbelt is provided in Section 4.9, Ecosystems, and Section 4.17, Parks and Recreational Resources, of the Final EIS.
681	Water Resources	4.2.8-4	4.2.8.1.4 Floodplains	ANTIEAU	SPU	Subsidence, previous pavement repairs, and cracked pavement suggest Genesee Dam is in poor condition and perhaps in a structural failure mode. The DEIS should acknowledge this evidence and potentiality and disclose impacts related to Sound Transit's possible repair, replacement, or removal of the dam as may be required for construction and operation of the project. SDOT's SW Genesee Street Detention Dam is regulated by the Washington State Department of Ecology (Dam #K19-380) and was completed in 1974.	West Seattle (DUW, DEL, WSJ)	Sound Transit has reviewed the 2020 Periodic Inspection Report for the Southwest Genesee Street Detention Dam prepared by the Washington State Department of Ecology. The text in the Final EIS reflects the findings of this report and identifies the need for further coordination if an alternative that affects the dam were to be selected as the project to be built.
682	Ecosystems	4.2.9-4	4.2.9.1.1 Aquatic Species and Habitat	ANTIEAU	SPU	Paragraph 4: The statement "The City regulates development in or over the creek." is imprecise and misleading. Per SMC 25.09, the City regulates all development activity in the Riparian Corridor, which includes the riparian watercourse and an associated riparian management area (100 feet of the ordinary high water mark on either side of the riparian watercourse).	West Seattle (DUW, DEL, WSJ)	Text added to Section 4.9, Ecosystems, to state that areas within 100 feet (the riparian management area) will also be regulated. This is already stated in Section 3.2 of Appendix N.4, Ecosystems Technical Report, of the Final EIS.
683	Geology and Soils	4.2.11-1	4.2.11 Geology and Soils	ANTIEAU	SPU	Section is silent on stability of Genesee Dam and the proposal's potential impacts and mitigation. Subsidence, previous pavement repairs, and cracked pavement suggest Genesee Dam is in poor condition and perhaps in a structural failure mode. The DEIS should acknowledge this evidence and potentiality and disclose impacts related to Sound Transit's possible repair, replacement, or removal of the dam as may be required for construction and operation of the project. SDOT's SW Genesee Street Detention Dam is regulated by the Washington State Department of Ecology (Dam #K19-380) and was completed in 1974.	West Seattle (DUW, DEL, WSJ)	This dam is discussed in Section 4.8, Water Resources. Ecology's latest inspection report was reviewed for the WSBL Draft EIS and the West Seattle Link Extension Final EIS and did not include statements that is in poor condition or in a structural failure mode. See also response to comment 681.
684	Water Resources	4.3.8-4	4.3.8.1.2 Shorelines	ANTIEAU	SPU	This section lacks context for most readers. Should be revised to be more similar to Section 4.2.8.1.2 and see previous ANTIEAU Comment above.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
685	Ecosystems	4.3.9-8	4.3.9.3.4	ANTIEAU	SPU	The referenced 200-foot zone is the Shoreline Management District, not a buffer. See previous ANTIEAU Comment.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
686	Ecosystems	4.3.9-9	4.3.9.4.1	ANTIEAU	SPU	This subsection 4.3.9 .4.1 contains this statement regarding tree removals: "Removing street trees with trunks larger than 6 inches in diameter or any...." The statement is imprecise and misleading. There is no diameter threshold for the removal of street trees. ("Street trees" are located only in street rights-of-way.) Further, it appears these statements do not successfully capture the intended concept. All tree removals would be reviewed by the City of Seattle if those removals occur in street rights-of-way ("street trees") and in environmentally critical areas (ECAs) on non-right-of-way parcels. Depending on the specific trees to be removed, the City may also review proposed tree removals outside of ECAs on non-right-of-way parcels. For trees to be removed in street rights-of-way and in ECAs, the City requires mitigation in the form of tree replacement. For tree removal ins ECAs, the City requires evidence the applicant has undertaken mitigation sequencing and is providing mitigation that achieves replacement of lost ecological function.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
687	Utilities	Page 4.2.15-4	4.2.15.4.2 SODO Segment	Eugene Mantchev	SPU	If part of 6th Ave S is rebuilt, the existing water line must be replaced, protection in place is not feasible for a full street rebuild in the poor soils of SODO.	SODO/CID	Comment noted. Sound Transit will continue to coordinate with the City of Seattle regarding this utility.
688	Utilities	Page 4.2.15-5	4.2.15.6 Mitigation Measures	Eugene Mantchev	SPU	Please explain the intent of the statement "Through pre-construction measures and coordination with utility providers, no impacts on major utilities are expected during construction of the West Seattle Link Extension and no mitigation would be needed." and possibly rephrase to make it clearer.	All (Systemwide)	The intent is that through coordination, impacts will be minimized or avoided and no mitigation will be needed. No change.
689	Water Resources	4.2.8-6	Water Quality	Reed Blanchard	SPU	Second Paragraph: City of Seattle Drainage Code defines guideways as pollution generating surface and the evaluations, discussion, summaries and design must reflect this..	All (Systemwide)	Comment noted. Sound Transit will continue to coordinate with the City of Seattle regarding water quality treatment requirements. The stormwater code does not currently call out light rail guideway specifically.
690	Water Resources	4.2.8-6	Water Quality	Reed Blanchard	SPU	Third Paragraph: Note, there are no CSO basins within the project vicinity that have capacity to receive additional flow.	West Seattle (DUW, DEL, WSJ)	Comment noted. Flow control will be provided for all stormwater runoff associated with the West Seattle Link Extension project.
691	Water Resources	4.2.8-9	Water Quality	Reed Blanchard	SPU	Note that Longfellow Creek is also Piped Creek Basin and will require flow control along with water quality.	West Seattle (DUW, DEL, WSJ)	Comment noted. Flow control will be provided for all stormwater runoff associated with the West Seattle Link Extension Project.

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692	Public Services, Safety and Security	4.2.7-21	4.2.7.6.1	Rich Richardson	SFD	Noise impacts during construction will have to be fully mitigated within fire stations from 10 P.M. to 7 A.M., the designated sleeping hours for firefighters.	All (Systemwide)	Comment noted. Please see mitigation section of Section 4.7, Noise and Vibration, of the Final EIS.
693	Public Services, Safety and Security	4.2.7-23	4.2.7.6.2	Rich Richardson	SFD	Vibration impacts during construction will have to be fully mitigated within fire stations from 10 P.M. to 7 A.M., the designated sleeping hours for firefighters.	All (Systemwide)	Comment noted. Please see mitigation section of Section 4.7, Noise and Vibration, of the Final EIS.
694	Public Services, Safety and Security	4.2.14-10	4.2.14.4.1	Rich Richardson	SFD	During construction and when complete, emergency vehicle access is required for all existing buildings, construction sites, and for travel through/around construction sites. Restrictions to access must be coordinated with Seattle Fire Department	All (Systemwide)	Comment noted. Sound Transit will coordinate with the Seattle Fire Department as design advances regarding access during construction and operations.
695	Public Services, Safety and Security	4.3.7-17	4.3.7.4.1	Rich Richardson	SFD	Noise impacts during construction will have to be fully mitigated within fire stations from 10 P.M. to 7 A.M., the designated sleeping hours for firefighters.	All (Systemwide)	See response to comment 692.
696	Public Services, Safety and Security	4.3.7-23	4.3.7.4.1	Rich Richardson	SFD	Vibration impacts during construction will have to be fully mitigated within fire stations from 10 P.M. to 7 A.M., the designated sleeping hours for firefighters.	All (Systemwide)	See response to comment 693.
697	Public Services, Safety and Security	4.3.14-4	4.3.14.4.1	Rich Richardson	SFD	During construction and when complete, emergency vehicle access is required for all existing buildings, construction sites, and for travel through/around construction sites. Restrictions to access must be coordinated with Seattle Fire Department		See response to comment 694.
698	Public Services, Safety and Security	4.3.14-16	4.3.14.4.5	Rich Richardson	SFD	Construction impacts affecting response times from Fire Station 20 and Station 18 shall be coordinated with Seattle Fire Department		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
699	Public Services, Safety and Security	4.3.14-17	4.3.14.4.5	Rich Richardson	SFD	Construction impacts affecting response times from Fire Station 3 shall be coordinated with Seattle Fire Department		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
700	Public Services, Safety and Security	3.0-23	3.5.3.1.1	Rich Richardson	SFD	During construction and when complete, emergency vehicle access is required for all existing buildings, construction sites, and for travel through/around construction sites. Restrictions to access must be coordinated with Seattle Fire Department		See response to comment 694.
701	Public Services, Safety and Security	3.0-51	3.13.3.1	Rich Richardson	SFD	During construction and when complete, emergency vehicle access is required for all existing buildings, construction sites, and for travel through/around construction sites. Restrictions to access must be coordinated with Seattle Fire Department		See response to comment 694.
702	Public Services, Safety and Security	3.0-127	3.19.1.1.2	Rich Richardson	SFD	During construction and when complete, emergency vehicle access is required for all existing buildings, construction sites, and for travel through/around construction sites. Restrictions to access must be coordinated with Seattle Fire Department		See response to comment 694.
703	Public Services, Safety and Security	4.2.1-5	4.2.1.3.2	Rich Richardson	SFD	Any negative impact to Fire Stations 36 or 14 shall be coordinated with Seattle Fire Department		See response to comment 694.
704	Ch 4 Affected Environment and Environmental Consequences	4.1-9	4.1.16, and Various locations throughout Chapter 4	Sarah Sodt	DON	References to local codes are missing related to implementation of the City's Historic Preservation regulations - specifically the references to when a Certificate of Approval (SMC 25.12 and SMC 23.66) is required for alterations within historic districts (demolition, construction of stations, venting structures, head houses etc.) or to individual landmarks. Additionally the regulations regarding referral to the Landmarks Preservation Board of nominations for potentially eligible resources that are proposed for demolition or substantial alteration is not address (SMC 25.05.675H2c and SMC 25.12). Therefore, the potential conflict with local controls cannot be determined.	All (Systemwide)	Reference to 25.12 was included in Section 4.1.16 of the WSBL Draft EIS and is included in Section 4.16.1 of the Final EIS. Seattle Municipal Code 23.66 refers to local districts, which are not present in the West Seattle Link Extension study area. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
705	Ch 4 Affected Environment and Environmental Consequences	4.2.16-6	4.2.16.3.1	Sarah Sodt	DON	The information necessary to identify impacts and compare alternatives is missing. Missing is the definition of what is meant by "directly modified" in the context of potential changes requiring a Certificate of Approval for individual landmarks/historic districts.	All (Systemwide)	Per comment, in West Seattle Final EIS Section 4.16.4.1, "modified" has been revised to "alteration" (because that matches the nomenclature in the City's Landmarks Preservation Ordinance). Text has also been added in Section 2.3 of Appendix N.5, Historic and Archaeological Resources Technical Report, with a direct link to the City's Landmarks Preservation Ordinance webpage so that the interested reader can learn more about how impacts to designated landmarks are handled under the ordinance, as follows in italics: "...greater detail regarding City of Seattle review of actions related to designated landmarks can be found at https://library.municode.com/wa/seattle/codes/municipal_code?nodeId=TIT25ENPRHIPR_CH25.12LAPR "
706	Ch 4 Affected Environment and Environmental Consequences	4.3.16-6	4.3.16.3.1	Sarah Sodt	DON	The information necessary to identify impacts and compare alternatives is missing. Missing is the definition of what is meant by "directly modified" in the context of potential changes requiring a Certificate of Approval for individual landmarks/historic districts.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
707	Ch 4 Affected Environment and Environmental Consequences	4.3.18-8	4.3.18.4.2	Sarah Sodt	DON	The information necessary to identify impacts and compare alternatives is missing. Missing is the definition of what is meant by "directly modified" in the context of potential changes requiring a Certificate of Approval for individual landmarks/historic districts.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
708	Ch 4 Affected Environment and Environmental Consequences	4.3.18-9	4.3.18.4.2	Sarah Sodt	DON	The information and methodology in the Least Harm Analysis does not capture complete construction and permanent impacts of the project including: impacts of demolition, detour routes, staging areas, venting, head houses and other visual and aesthetic impacts etc. Missing in the evaluation are analyses of some of these impacts, particularly with regard to ancillary structures associated with the stations as well as detour routes and staging areas. The City of Seattle uses the Certificate of Approval process and procedures associated with SMC 25.05.675H to evaluate impacts.	All (Systemwide)	The text referenced is the description of what a Least Harm analysis includes under Code of Federal Regulations 23 Section 774.3 (c)(1), the enabling regulation for Section 4(f). As noted, the Least Harm Analysis was not completed in the WSBL Draft EIS because it cannot be completed until after public review and comment on proposed de minimis determinations. The Least Harm Analysis is included in the Final EIS.

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709	Technical Report: Historic and Archaeological Resources	2.2- 2.3	2.3	Sarah Sodt	DON	References to local codes are missing related to implementation of the City's Historic Preservation regulations - specifically the references to when a Certificate of Approval (SMC 25.12 and SMC 23.66) is required for alterations within historic districts (demolition, construction of stations, venting structures, head houses etc.) or to individual landmarks. Additionally the regulations regarding referral to the Landmarks Preservation Board of nominations for potentially eligible resources that are proposed for demolition or substantial alteration is not address (SMC 25.05.675H2c and SMC 25.12). Therefore, the potential conflict with local controls cannot be determined.	All (Systemwide)	See response to comment 704.
710	Historic and Archaeological Resources	232	Table 4.3.16-5	Erin Doherty	DON	Seattle Center's International Commerce & Industry Building (Northwest Rooms) ID 1396a is identified as "adversely affected" both during construction and permanently due to proximity of DT-1 "Preferred Alternative". The remainder of this Seattle Landmark includes the International Plaza (Northwest Rooms Plaza) ID 1396c, and the Sweden Pavilion (International Fountain Pavilion) ID 1396d. These resources should be collectively identified as "adversely affected".	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
711	Historic and Archaeological Resources	232	Table 4.3.16-5	Erin Doherty	DON	Portions of the Key Arena (Climate Pledge Arena) ID 1396b structure and program reside beneath or directly adjacent to the International Plaza (Northwest Rooms Plaza) ID 1396c which may be adversely impacted by DT-1 "Preferred Alternative" and should be analyzed further.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
712	Historic and Archaeological Resources	205	Table 4.3.16-1	Erin Doherty	DON	Identifies the number of designated Seattle Landmarks within the Ballard APE, but does not illustrate how many are impacted by DT-1 vs. DT-2. This type of comparison is done for properties listed on the National Register of Historic Places, and should be done for Seattle Landmarks related to both the Ballard and West Seattle APEs, by segment.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
713	Ch 5 Cumulative Impacts		5.2.2	Erin Doherty	DON	This section describes the historic significance of Ballard in terms Nordic and maritime heritage, and does not represent an inclusive history. The historic significance of Native Peoples to this area is missing.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
714	Technical Report: Historic and Archaeological Resources	37	2.3	Erin Doherty	DON	This section outlines regulatory requirements. Although it discusses the Landmarks process and SEPA adjacency review, it is missing a reference to the SEPA referral process for individual buildings per SMC 25.05.800, Tables A & B for Footnote (1) for 25.05.800.B.6 and 25.05.800.B.7.	All (Systemwide)	Footnote added to read "[1] Seattle Municipal Code also requires that proposed actions that (1) involve structures that exceed thresholds B for Footnote (1) for 25.05.800.B.6 and 25.05.800.B.7 and (2) appear to meet criteria set forth in Chapter 25.12 for Landmark designation are subject to referral to the Department of Neighborhoods pursuant to Section 25.12.370."
715	Technical Report: Historic and Archaeological Resources		3.2	Erin Doherty	DON	The Area of Potential Effect boundary should encompass the entire Seattle Center campus, as there may be more adverse impacts than those related to a 200' dimension. In addition, include all of the Seattle Center information collected and assessed to inform the determination of eligibility for a potential district.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
716	Technical Report: Historic and Archaeological Resources		5.1	Erin Doherty	DON	Additional records should include King County property records / title searches.	All (Systemwide)	Washington State Archives Puget Sound Regional Branch has been added as a repository; this is where the King County property record cards are held.
717	Technical Report: Historic and Archaeological Resources	53	5.2.2	Erin Doherty	DON	Note that building dates on King County Tax records may not be accurate and need to be verified through additional sources.	All (Systemwide)	Building dates were noted as "circa" in WISAARD, unless they were verified by permits or other sources.
718	Technical Report: Historic and Archaeological Resources	146	9.9	Erin Doherty	DON	Paramount Theatre should be identified as a City of Seattle Landmark.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
719	Technical Report: Historic and Archaeological Resources	228	10.5.2.4	Erin Doherty	DON	This section notes the proposed removal of the "north façade canopy" for the International Commerce & Industry Building (Northwest Rooms) ID 1396a. Provide clarification of the "canopy". This building has a character defining, 4' deep roof overhang on all sides of the building, that is not a canopy. It appears to be comprised of the extended top chord of each roof truss, which supports the building's roof deck. If this what is being described as a canopy, revise to reflect removal of roof overhang and alteration of roof trusses. Provide a description of the other proposed alterations to building systems/utilities, circulation, etc. on the north side of the building, both short and long term as a result of DT-1 "Preferred Alternative".	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
720	Technical Report: Historic and Archaeological Resources	228	10.5.2.4	Erin Doherty	DON	The identification of potential adverse effects on the Seattle Center's International Commerce & Industry Building (Northwest Rooms) ID 1396a / International Plaza (Northwest Rooms Plaza) ID 1396c / Sweden Pavilion (International Fountain Pavilion) ID 1396d as a result of DT-1 "Preferred Alternative" is incomplete. Missing information includes construction methods for open cut directly adjacent to and beneath this Seattle Landmark with direct physical/proximity impacts, and additional potential adverse structural impacts due to vibration, settlement and water table (as demonstrated by recent Arena expansion project), both in the short and long term. As shown in the drawings, the immediate adjacency of the multi-storied open cut will impact the structural foundation of the building. There is no description of the methodology to protect and support the Seattle Landmark during construction, even though the proposed station would be less than 3' from the building face. Provide a construction feasibility study so that the actual effects can be assessed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
721	Technical Report: Historic and Archaeological Resources	261	11	Erin Doherty	DON	Due to the cumulative impacts on this Seattle Landmark, identify measures to avoid adverse effects on the Seattle Center International Commerce & Industry Building (Northwest Rooms) ID 1396a, International Plaza (Northwest Rooms Plaza) ID 1396c, and the Sweden Pavilion (International Fountain Pavilion) ID 1396d.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
722	Appendix J - Conceptual Design Drawings	86		Erin Doherty	DON	Page 86 / Sheet 193 – Site plan shows building Section C cut through the end of the Seattle Center's International Commerce & Industry Building (Northwest Rooms) ID 1396a and the Sweden Pavilion (International Fountain Pavilion) ID 1396d. Section C on Page 88 / Sheet 195 does not show Sweden Pavilion.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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723	Historic and Archaeological Resources	229	Table 4.3.16-5	Erin Doherty	DON	Seattle Center's Historic Playhouse ID 359a may be adversely impacted by DT-1 "Preferred Alternative" and should be analyzed further as there are no drawings illustrating the adjacent construction and means and methods.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
724	Technical Report: Historic and Archaeological Resources	228	Section 10.5.2.4	Erin Doherty	DON	The identification of potential adverse effects on Seattle Center's Historic Playhouse ID 359a as a result of DT-1 "Preferred Alternative" is incomplete. There is no information about the open cut construction and means and methods that will be directly adjacent to this historic building. Provide a construction feasibility study so that the actual effects can be assessed.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
725	Appendix J - Conceptual Design Drawings	86		Erin Doherty	DON	Page 86 / Sheet 193 –Site plan shows conceptual building sections through portions of the proposed construction but does not address the historic Playhouse. Provide an east/west section that illustrates the relationship of the head house and below-grade construction to the Playhouse on the east, and the Repertory Theatre to the west.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
726	Technical Report: Historic and Archaeological Resources	66 of Attachment N.5A	Table N.5A.1	Erin Doherty	DON	The International Fountain is not a Seattle Landmark. The International Fountain Pavilion is a Seattle Landmark, and you are referring to this resource as the Sweden Pavilion.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
727	Executive Summary	ES44	6	Genna Nashem	DON	The vent and egress structure built in the plaza of the Union Station has been a controversial issue in prior meeting issue identification, and still needs to be analyzed. "Avoidance" is required to be considered. Not only is avoidance not considered in the document, but overall impacts to Union Station and to the CID and the Pioneer Square historic districts are not acknowledged in the document.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
728	Ch 2 Alternatives Considered	13	2.2.2.36	Genna Nashem	DON	A photo of a typical vent structure is needed, therefore information is missing that would be required for analysis. The description is not sufficient to give a reader of the document the understanding size, scale and visual appearance of the vent structure. This will be a permanent significant feature. When the description of the vent without a photo or graphic follows a description of a truck with a photo of a truck, that could falsely imply that the vent structure is a less significant feature than a truck.	SODO/CID	A photo of a vent structure has been added to Section 2.1.2.3.6, Tunnel Vents, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
729	Historic and Archaeological Resources	10	4.1.16	Genna Nashem	DON	The paragraph mentions the Landmark Preservation Board and SMC 25.12 but does not mention the CID section passes through two historic district - The Pioneer Square Preservation District and the International District Special Review District. It doesn't state that all alterations to the District including any new construction or demolition will be reviewed by respective Board according to SMC23.66 and would require a Certificate of Approval.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
730	Ch 5 Cumulative Impacts	14	5.4.6	Genna Nashem	DON	The permanent visual and aesthetics effects are not efficiently discussed or assessed especially in historic district. Effects do not seem to use the methodology noted in 4.1. If studied, In the situation of the vent structure at the shared entry point to both Pioneer Square and International historic districts, the large utilitarian structure would lower the visual quality of the area.	All (Systemwide)	The purpose of Chapter 5 is to evaluate cumulative impacts of the proposed project in combination with other past, present, and reasonably foreseeable projects. Visual impacts from the project are covered in Section 4.5, Visual and Aesthetic Resources, and Appendix N.2, Visual and Aesthetics Technical Report, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
731	Ch 5 Cumulative Impacts	23	5.4.17.1	Genna Nashem	DON	Paragraph refers to the city changing zoning, is this hypothetical? if so then those changes should be identified and impacts should be analyzed in this document. If the document is referring to some specific recent zoning changes, then those should be referenced. Historic Preservation is about managing change, not preventing it, but this does not accurately reflect the existing regulatory framework or mitigation impacts methodology relating to historic preservation in the city, especially with regard to cumulative impacts to historic districts.	All (Systemwide)	Changes in zoning are hypothetical. Zoning is managed by the City and the City could choose to change zoning in historic districts in the future. Potential cumulative impacts of the proposed project in combination with potential zoning changes are discussed in Section 5.4.17.1.
732	Technical Report: Visual	10	3.2.1	Genna Nashem	DON	High Visual Quality – Areas with high visual quality must be outstanding in terms of being very memorable, distinctive, unique (in a positive way), and/or intact—they can be natural, park-like, or urban, with urban areas displaying strong and consistent architectural and urban design features. Historic Districts should be considered High Visual Quality, these qualities are why they are designated historic districts. This paragraph does not recognize the visual experience of being in the district of looking at the District and seems to only be considering the views of other things as seen from the District. The paragraph also does not consider the extent of the prominence of a venting and egress structure at the scale and location that it is proposed on the District and on the Union Station.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
733	Historic and Archaeological Resources	4.2.16.1	4.2.16.1	Genna Nashem	DON	APE should include the King Street Station. The proposed 4th Ave Station is directly across the tracks of King Street Station; bike facilities that would serve the ST station are proposed behind the station and the use of the plaza at King Street station could be affected by the presence, noise and smell of the ventilation shaft.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
734	Technical Report: Historic and Archaeological Resources		2.3	Genna Nashem	DON	Include City Historic Districts -Pioneer Square Preservation District and International Special Review District and regulation SMC 23.66	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
735	Ch 4 Affected Environment and Environmental Consequences	4.3.18.4	4.3.18.2.2	Genna Nashem	DON	Use of Union Station requires consideration of avoidance alternatives, which are not included in the document. Change of use is regulated in both the International Special Review District and the Pioneer Square Preservation District.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
736	Ch 4 Affected Environment and Environmental Consequences	4.3.5.4	4.5.3.2	Genna Nashem	DON	Not enough information has been included to evaluate whether 40 feet in height tunnel vent structures would be less prominent than station entrances. Freestanding vent structures at 40 feet would be a visual intrusion that would cause permanent diminishment of setting, feeling and integrity to Union Station and to the International District and Pioneer Square historic districts. Design would not be able to mitigate the effect. Consideration of avoidance is required.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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737	Ch 4 Affected Environment and Environmental Consequences	4.3.5.1	4.3.5	Genna Nashem	DON	Consideration of sensitive view of landscape is not appropriate in the urban area is a flawed methodology for an urban area. The people who live, work and spend time here should be the people who we are most concerned about how they see the visual and aesthetic character of the area effected.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
738	Executive Summary	throughout		Rebecca Frestedt	DON	The acronym M.O.S. (minimum operable segment) is used throughout the Executive Summary, but the origin is not easy to locate for individuals who are jumping ahead to particular segments within the alignment. I suggest spelling out the full name "minimum operable segment" on the header pages, such as sheet ES-24, for the Ballard Link Extension	All (Systemwide)	M.O.S is spelled out the first time it is referenced in the Executive Summary and is defined in the main body of the document.
739	Executive Summary	ES-43	ES.6.2	Rebecca Frestedt	DON	The analysis is incomplete. There is mention of the CID as the Asian American hub, but the mention of impacts is focused on the immediate areas of impact, rather than addressing the short and long-term disruption of the cultural cohesion and economic impact of the District more broadly.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
740	Ch 4 Affected Environment and Environmental Consequences		4.3.2.1.2	Rebecca Frestedt	DON	This section does not sufficiently reference the degree to which certain uses within the International Special Review District are given preference in the land use code under SMC 23.66, to support cultural fabric of the neighborhood and how changes to those uses could disrupt the supportive fabric of the neighborhood.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
741	Ch 4 Affected Environment and Environmental Consequences		4.3.2.6	Rebecca Frestedt	DON	There is not enough information about proposed land use impacts to determine the need for mitigation within the study area. As noted above, specific uses within the historic districts in the Chinatown International District and Pioneer Square area reviewed to ensure that proposed changes are compatible with and support the character of the districts. The need for some degree of mitigation is anticipated in order to ensure that changes to the station area are compatible with the 1/4-1/2 area around the Station Area.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
742	Ch 2 Alternatives Considered		2.1.2.2.2	Rebecca Frestedt	DON	The information necessary to identify impacts and compare alternatives is missing. Due to the cost and construction duration constraints of the 4th Ave S. alternatives and the significant economic and cultural impacts to the CID community that would result from the 5th Ave S. alternatives CID 2a and CID-2b, an option that explores moving the station north on 5th to the currently vacant parcel in the NE corner of the 5th Ave S. and S. Jackson St. intersection should be studied in the EIS.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
743	Ch 4 Affected Environment and Environmental Consequences	4.2.2-11	4.2.2.5	Rebecca Frestedt	DON	I concur with comments submitted by Geoff Wentlandt, OPCD when he stated, "There is not enough information to compare alternatives or assess the degree of impact because there is not enough information on indirect land use impacts. The only type of indirect land use impact assessed is the degree of TOD potential, but there are other critical types of indirect land use impact besides the degree of TOD potential. The EIS does not discuss the indirect land use compatibility impacts of land use changes that would occur over time due to introduction of a light rail station. There is no information on the compatibility impacts to land use outside of the project's footprint (outside of direct acquisitions and conversions to transportation uses). The indirect impacts analysis should review the existing land use pattern and built environment within 1/2 mile of the station locations. The analysis should contemplate the degree of incompatibility that would be created by introduction of TOD and induced development pressures associated with new light rail stations. Resulting land use incompatibilities that would be created should be characterized qualitatively. Land use incompatibilities include discordant patterns of: building scales, activity patterns, and times of day/night activity." This will be a significant impact within the historic districts, specifically Pioneer Square Preservation District and the International Special Review District, where historically significant and contributing properties in the surrounding areas are unlikely to be redeveloped and where the existing architectural character of the District is dominant and where the cultural and economic base of the surrounding neighborhood will be deeply impacted by the presence of a station, through construction and beyond.	SODO/CID	Land use around stations is determined by City zoning, not by the West Seattle Link Extension Project. The project may act as a catalyst for future development as described in Section 4.2.6, Indirect Impacts of the Build Alternatives. A response to this comment relate to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
744	Appendix J - Conceptual Design Drawings	9-40		Rebecca Frestedt	DON	The information necessary to identify impacts and compare alternatives is missing. The plans show the ventilation and egress tower and station entrance on the east of Union Station in plan view, but not in elevation from the north and south or from S. King Street looking west. The visual impact of the ventilation stack in this alternative will have an adverse effect on the primary facade of Union Station, a public safety and sightlines and the visual continuity and architectural character of the International Special Review District and the Pioneer Square Preservation District.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
745	Appendix J - Conceptual Design Drawings	28		Rebecca Frestedt	DON	The information necessary to identify the impacts and compare alternatives is missing. For example, the graphics do not show the full extent of the visual impact of the siting of the proposed ventilation stack adjacent to the Union Station entrance in the 5th Ave S. alternatives. The upper 25' of the stack would be opaque, but the way it is shown here as x'd out does not accurately reflect the impact. The conceptual drawings throughout lack specifics about placement and height of headhouses and venting stacks in relation to other properties.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
746	Ch 4 Affected Environment and Environmental Consequences	4.1-9	4.1.16	Rebecca Frestedt	DON	The analysis is incomplete. This section addresses National Register and local Landmark eligible properties, but omits mention of designated historic districts and the regulatory considerations that are required when changes within designated districts are proposed. See Chapter 23.66 of the Seattle Land Use Code, for proposed work in the Pioneer Square Preservation District and the International Special Review District.	All (Systemwide)	See response to comment 704.
747	Economics	4.3.3-8	4.3.3.3.3	Rebecca Frestedt	DON	The analysis is incomplete. The statement that "Businesses displaced with either Alternative CID-2a or Option CID-2b would include some retail and services businesses that serve the local community" is inaccurate. The CID is a regional hub for the Asian-American and Pacific Islander community. Businesses rely on one another and rely on customers who "trip chain" by shopping at several places throughout the greater CID, especially on weekends. Many patrons have elder family members who reside in the neighborhood and/or consider the CID as a cultural home or "third place." There will be a significant economic ripple from construction impacts and displacements.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
748	Economics	4.3.3-8	4.3.3.3.3	Rebecca Frestedt	DON	The analysis is incomplete. Information is needed about the cumulative impact of transportation of goods and services to business and service providers (like International Community Health Services and Kin On) throughout the CID and Pioneer Square.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
749	Visual and Aesthetics	4.3.3.-14	4.3.3.4.3	Rebecca Frestedt	DON	Information necessary to identify impacts and compare alternatives is missing. Additional information is needed about the extent of work that would be involved in the "structural improvements" to the American Hotel (417 6th Ave S.) and Buty Building (402 5th Ave S.) under the CID-2a Diagonal alternative. Both buildings are contributing buildings within the Seattle Chinatown National Register District and the International Special Review District.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
750	Land Use	4.3.3.-14	4.3.2.6	Rebecca Frestedt	DON	References to local codes citing minimum mitigation requirements is missing. As a result, the analysis of alternatives is incomplete. This section states that "...the Ballard Link Extension would not result in inconsistencies with adopted land use plans." However, there is no reference to the historic district requirements under SMC Chapter 23.66. It anticipated that there will be inconsistencies with the adopted land use code and mitigation may be required, as a result.	All (Systemwide)	Text in the introduction to Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS notes that the project will comply with applicable regulations.
751	Social Resources, Community Facilities, and Neighborhoods	4.3.2-14	4.3.3.4.3	Rebecca Frestedt	DON	The analysis is incomplete. Several significant impacts have not been identified. Missing is discussion of the impacts to residents/tenants of the Addison on 4th, adjacent to ICON (which could be vacated if CID-1a is selected) or impacts to tenants of the Publix Hotel, which abuts 5th Ave S. and the proposed new station elements under CID-2a and 2b.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
752	Social Resources, Community Facilities, and Neighborhoods	4.3.4-8	4.3.4.1.1	Rebecca Frestedt	DON	The information included in this section is incomplete. This section is missing institutions including Summit Sierra School, the Chinese Language school at Chong Wa Benevolent Association and the Puget Sound Community School. There is also no mention of Theatre Off Jackson. Donnie Chin International Children's Park is misidentified and Kobe Terrace Park and the Danny Woo Community Garden are omitted. The King Street Greenway, which is part of the citywide bicycle network is also located within the CID.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
753	Social Resources, Community Facilities, and Neighborhoods	4.3.4-16&17	4.3.4.3.3	Rebecca Frestedt	DON	The analysis is incomplete. Several significant impacts have not been identified. Missing is discussion of the indirect impacts to neighborhood social and cultural cohesion outside of the immediate station area. The range of study should be extended 1/2 mile from the station, as neighboring businesses, residents and social agencies or institutions will be impacted. See earlier mention of the area as a regional hub for the Asian-American and Pacific Islander (AAPI) community and the reliance that business have on one another from customers who shop at multiple businesses when in the neighborhood. The cumulative impact to the AAPI cultural community will be significant. Additionally, the analysis does not take into consideration who will benefit from the proximity of the station and new house close to the downtown core and whether or not existing residents, who are mostly BIPOC and largely elders, will benefit.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
754	Economics	4.3.3-17-18	4.3.3.6	Rebecca Frestedt	DON	Mitigation measures for identified impacts are missing from the DEIS. As noted within the DEIS, impacts to the CID community will be significant. The degree of impacts, to businesses, property owners, residents and community stakeholders in the CID is disproportionate and the mitigation measures are not one-size-fits all. The community should be engaged in discussion, with outcomes potentially resulting in investments elsewhere in the neighborhood and Community Benefits Agreement(s), acknowledging that public investments have historically contributed to harm in the neighborhood and the short and long-term impacts will impact the CID as a whole, not just the immediate station area.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
755	Visual and Aesthetics	4.3.5-3-4	4.3.5.3.1	Rebecca Frestedt	DON	The analysis is incomplete. When discussing vegetation along the alignment, ST does not recognize that all changes within the right-of-way within the Pioneer Square Preservation District and the International Special Review District will require a Certificate of Approval. This includes, but is not limited to: paving, street furnishings, bicycle parking, signage, lighting and landscaping. A one-scheme-fits-all stations within the alignment is not appropriate in the PS and ISRD, due to the importance of visual continuity within the right-of-way within these districts. See SMC 23.66.030.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
756	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Rebecca Frestedt	DON	The analysis is incomplete and appears not to be compliant with SMC 23.66. When discussing visual impacts of station entrances and related components, headhouses, venting, bike parking, etc. there should be further analysis of the siting of these elements in consideration of visual cohesion and architectural character within the Pioneer Square Preservation District and International Special Review District. All elements above grade, including, but not limited to: paving, street furnishings, bicycle parking, signage, lighting and landscaping will require a Certificate of Approval from the Department of Neighborhoods, following review and a recommendation by the respective historic review Boards, pursuant to Chapter SMC 23.66. Perspective from multiple vantage points should be considered as "sensitive viewers", including the Chinatown Gate and views from the public right-of-way, given the pedestrian-oriented character of the Asian Design Character District, within the ISRD.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
757	Ch 4 Affected Environment and Environmental Consequences			Rebecca Frestedt	DON	Information necessary to identify impacts and compare alternatives is missing. The DEIS lacks details about staging and impacts to historic resources and the visual character of the Pioneer Square Preservation District and International Special Review District under each of the alternatives.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
758	Appendix J - Conceptual Design Drawings	16		Rebecca Frestedt	DON	Information necessary to identify impacts is missing. The Inscape/INS Building located at 815 Seattle Blvd S. and adjacent property to the east are within the boundaries of the International Special Review District. It appears that there may be station elements adjacent to and across the street from this building, but it's unclear what work is proposed in this area. Salvation Army William Booth Center (811 Maynard Ave S.) housing is located due east of the "TPSS" box. Information is needed about the visual impact of work that would result as part of this alternative, and the impacts to the users of the Center.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
759	Technical Report: Visual		3.2.1	Rebecca Frestedt	DON	The methodology does not capture complete impacts of the project. Due to the designation of the CID Station Area within two overlapping historic districts, consideration of visual impacts within 100-500 feet is insufficient. The determination that the visual quality of views in the area ranges from "average to low average" does not take into account the proximity of the Asian Design Character District, running up the spine of S. King St. nor the importance of the visual cohesion of the historic districts, more broadly, to prevent adverse effects on the character of the districts, which reflect "memorable, distinctive, unique (in a positive way) and/or intact" High Visual Qualities not taken into account in this methodology.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
760	Ch 4 Affected Environment and Environmental Consequences	4.2.16-23	4.2.16.5	Sarah Sodt	DON	Mitigation measure(s) for identified impacts are missing from the DEIS. Many of the mitigation measures identified are the typical menu related to mitigating impacts to resources that are historically valued by the dominant culture. Mitigation measures should be considered that specifically support cultural preservation impacts, particularly in the CID and elsewhere along the various segments. Additionally, mitigation measures that support generational/community wealth building in underrepresented communities should be explored - this could include seismic retrofit mitigation measures, cleaning (including due to construction and graffiti impacts), weatherization, and other measures that support both historic preservation and climate resiliency. It will be important to discuss types of mitigation measures during Section 106 consultation meetings that presumably will eventually be held.	All (Systemwide)	Text has been added to Final EIS Section 4.16.6 noting that a programmatic agreement will be required for the Section 106 process to resolve adverse effects to historic, built environment resources and that Sound Transit also anticipates the need to address impacts to previously undocumented archaeological resources in coordination with Tribes and the State Historic Preservation Officer (and that this pre-construction inventory work is anticipated to be addressed in the Section 106 agreement). A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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761	Ch 4 Affected Environment and Environmental Consequences	4.3.16-48	4.3.16.5	Sarah Sodt	DON	Mitigation measure(s) for identified impacts are missing from the DEIS. Many of the mitigation measures identified are the typical menu related to mitigating impacts to resources that are historically valued by the dominant culture. Mitigation measures should be considered that specifically support cultural preservation impacts, particularly in the CID and elsewhere along the various segments. Additionally, mitigation measures that support generational/community wealth building in underrepresented communities should be explored - this could include seismic retrofit mitigation measures, cleaning (including due to construction and graffiti impacts), weatherization, and other measures that support both historic preservation and climate resiliency. It will be important to discuss types of mitigation measures during Section 106 consultation meetings that presumably will eventually be held.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
762	Technical Report: Historic and Archaeological Resources	10-69/242	10.5.2.5	Sarah Sodt	DON	Regarding the Cape Flattery Apartments the impact of having a vacant building during the duration of the construction should be analyzed. A long-term vacancy can potentially directly cause the owner to pursue demolition of the building and redevelopment.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
763	L4.1 Acquisitions, Displacements, and Relocations	6	4.3.1.3.3	Sarah Sodt	DON	Regarding the YWCA building currently in process of a major rehabilitation and conversion from SRO occupancy to apartments. Due to federal funding this project itself is going through section 106 review. Coordination with the property owner regarding the potential impacts to this property must be done. It appears that there may be impacts that have not been adequately analyzed related to construction and displacement. The chart on 10-62 in the Appendix N says that the building is not adversely affected.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
764	Executive Summary	ES-32	Line 12	Rick Sheridan	SPL	Please use the "Seattle Public Library - Central Library" to describe the downtown facility instead of "Seattle Public Library Central Branch". It would be consistent with the building's name elsewhere in the document.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
765	Ch 4 Affected Environment and Environmental Consequences	4.3.14-14	Line 36	Rick Sheridan	SPL	In "Other Governmental Facilities" The Seattle Public Library would appreciate a sentence comparable with the one for USPS stating that ST will ensure that access and egress would be maintained and that the closure of an access point would be remedied with an alternative one. The Library processes all physical materials (books, DVDs, etc.) at the Central Library. If the Library can't access its loading dock, it cannot process books and move them to its 26 branches.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
766	Ch 4 Affected Environment and Environmental Consequences	4.3.4-23	Line 28	Rick Sheridan	SPL	States "See Section 4.3 14 for more information on noise impacts to the library." But that section doesn't address noise impacts.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
767	Ch 3 Transportation Environment and Consequences	3-15	3.4.3.1.2	Benjamin Smith	SDOT	Because of the permanent or construction closure of the SODO Busway, Sound Transit shall coordinate with the City of Seattle and King County Metro, and detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate for the displacement of this transit roadway to 4th and/or 6th Aves S, as well as siting all lost layover along the Busway.	SODO/CID	The Final EIS includes more description of specific transit mitigation treatments, with an emphasis on the preferred alternative. Some details, like exact turns for detoured buses, are not known at this time but will be subject to future discussions with Metro and the City of Seattle.
768	Ch 3 Transportation Environment and Consequences	3-59	3.11.2.4	Benjamin Smith	SDOT	During the construction closure of the SODO Trail, Sound Transit shall coordinate with the City of Seattle and King County Metro, and detail the specific reroute pathway including turns to 4th and/or 6th Aves S, including safe bus-bicycle interactions on these corridors shared by buses displaced from the SODO Busway.	SODO/CID	Non-motorized construction detours for this area are identified and evaluated in the Final EIS.
769	Ch 3 Transportation Environment and Consequences	3-64	3.11.4.2	Benjamin Smith	SDOT	Alternative DEL-5 includes a full closure of Avalon Way SW for 1 year, impacting RapidRide C line as well as routes 21, 21x & 55. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	West Seattle (DUW, DEL, WSJ)	Comment noted. As described in Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS, Sound Transit would coordinate with Metro, City of Seattle, and FTA, where appropriate, to identify and agree to bus service and associated infrastructure modifications and transit facility improvements that maintain transit service and access through construction areas.
770	Ch 3 Transportation Environment and Consequences	3-64	3.11.4.2	Benjamin Smith	SDOT	Alternatives DEL-1a, -1b & -3 include a full closure of for 3 years, impacting Route 50. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	West Seattle (DUW, DEL, WSJ)	See response to comment 769.
771	Ch 3 Transportation Environment and Consequences	3-71	3.11.5.2	Benjamin Smith	SDOT	Alternative WSJ-2 includes a full closure of SW Alaska St for 3 years, impacting RapidRide C line as well as Route 50. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	West Seattle (DUW, DEL, WSJ)	See response to comment 769.
772	Ch 3 Transportation Environment and Consequences	3-97	3.13.3.1.2	Benjamin Smith	SDOT	Alternatives CID-1a* & -1b* assume a permanent loss of the northbound bus-only lane on 4th Ave S between Seattle Blvd S and S Jackson St. This change impacts the speed & reliability of many local and regional services from South Seattle, South King County and Pierce County (even in a horizon year of 2042), many of which would already lose the advantages of the SODO Busway due to that facility's closure. Sound Transit shall coordinate with the City of Seattle and King County Metro on the future channelization of 4th Ave S and will redesignate any lanes only upon the assent of SDOT.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
773	Ch 3 Transportation Environment and Consequences	3-127	3.19.1.2.1	Benjamin Smith	SDOT	For all CID alternatives, impacts to Metro's trolleybus system could be critical, and impact pathways such as 6th Ave S, Seattle Blvd S, and 5th Ave S needed for all trolleybus trips scheduled in the course of a day. Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating trolleybus service through these pathways as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway. Because of the long lead time in overhead catenary system infrastructure, this work should commence as soon as possible.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
774	Ch 3 Transportation Environment and Consequences	3-132	Table 3-29	Benjamin Smith	SDOT	Alternatives CID-1a* & -1b* assume a full closure of 2nd Ave Ext S for 2 or 6 1/2 years, respectively, impacting multiple routes continuing from 2nd Ave in Downtown Seattle to points south. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
775	Ch 3 Transportation Environment and Consequences	3-133	3.19.3.2	Benjamin Smith	SDOT	Alternative CID-1b includes a full closure of 4th Ave S from Seattle Blvd S to S Jackson St for 6 1/2 years, impacting many local and regional services from South Seattle, South King County and Pierce County which would already lose the advantages of the SODO Busway due to that facility's closure. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
776	Ch 3 Transportation Environment and Consequences	3-133	3.19.3.2	Benjamin Smith	SDOT	Alternative CID-1a includes a full closure of Seattle Blvd S for 2 years, impacting many routes traveling to and from Metro's bases in the SODO area. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
777	Ch 3 Transportation Environment and Consequences	3-134	3.19.3.2	Benjamin Smith	SDOT	Alternative CID-1a includes a full closure of 4th Ave S from S Jackson to S Main Sts for 4 years, impacting many local and trolley routes, including the future RapidRide R Line, as well as regional services from South Seattle, South King County and Pierce County which would already lose the advantages of the SODO Busway due to that facility's closure. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
778	Ch 3 Transportation Environment and Consequences	3-134	3.19.3.2	Benjamin Smith	SDOT	Alternative CID-2a includes a full closure of 5th Ave S from S Jackson to S Weller Sts for 9 months, impacting many local and most trolley routes. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
779	Ch 3 Transportation Environment and Consequences	3-134	3.19.3.2	Benjamin Smith	SDOT	Alternatives CID-1a* & -1b* assume a full closure of S Jackson St from 2nd Ave Ext S to 5th Ave S for 2 years, impacting many local and trolley routes, including the future RapidRide R Line. With few viable reroutes available and the direct connection to C-ID Station at risk, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
780	Ch 3 Transportation Environment and Consequences	3-134	3.19.3.2 & 3.19.3.2	Benjamin Smith	SDOT	Due to disruptions to trolley service on 5th Ave S, proposals to relocate trolley wire to 7th or 8th Aves S is proposed. (Section 3.19.3.2 mentions both, section 3.19.3.2 mentions 8th Ave S.) 8th Ave S is used by the Seattle Streetcar's non-revenue connection to the Charles St yard and already features streetcar-related overhead catenary infrastructure, and both are local streets with stop-controlled intersections and generally slow speeds, generally unsuitable to frequent transit operations. Sound Transit shall coordinate with the City of Seattle and King County Metro, along with thorough engagement with the International District/Chinatown community, on accommodating trolley service through the neighborhood, and shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
781	Ch 3 Transportation Environment and Consequences	3-136	Table 3-30	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of 4th Ave from Pine to Olive Sts for 2 years, impacting local and regional routes. With few viable reroutes available and the direct connection to Westlake Station at risk, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
782	Ch 3 Transportation Environment and Consequences	3-136	Table 3-30	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of Madison St from 4th to 5th Aves for 1-3 years, impacting the under-construction RapidRide G line. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
783	Ch 3 Transportation Environment and Consequences	3-136	Table 3-30	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of Republican St by Queen Anne Ave N for 5 years, including the intersection at 1st Ave N for 15 months, impacting local and trolley routes. With few viable reroutes available and congested traffic conditions due to Climate Pledge Arena and other Seattle Center activities, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
784	Ch 3 Transportation Environment and Consequences	3-138	3.19.4.1.1	Benjamin Smith	SDOT	Under Alternative DT-1 construction of Midtown Station, among other roadways traffic is expected to divert to Seneca St, potentially impacting RapidRide G line and trolley Route 2. Sound Transit shall coordinate with the City of Seattle and King County Metro on maintaining transit performance on this pathway, and shall detail any necessary transit priority treatments to ensure the continued viability of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
785	Ch 3 Transportation Environment and Consequences	3-138	3.19.4.1.1	Benjamin Smith	SDOT	Under Alternative DT-1 construction of Midtown Station, among other roadways traffic is expected to divert to James St, potentially impacting trolley Routes 3 and 4. Sound Transit shall coordinate with the City of Seattle and King County Metro on maintaining transit performance on this pathway, and shall detail any necessary transit priority treatments to ensure the continued viability of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
786	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.1.3	Benjamin Smith	SDOT	Under Alternative DT-1 construction of Denny Station, among other roadways traffic is expected to divert to Dexter Ave N, potentially impacting Route 62 and local bicycle travel. Sound Transit shall coordinate with the City of Seattle and King County Metro on maintaining transit performance on this pathway, and shall detail any necessary transit priority treatments to ensure the continued viability of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
787	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.1.3	Benjamin Smith	SDOT	Under Alternative DT-1 construction of Denny Station, among other roadways traffic is expected to divert to Fairview Ave N, potentially impacting future trolley RapidRide J line and other regional routes. Sound Transit shall coordinate with the City of Seattle and King County Metro on maintaining transit performance on this pathway, and shall detail any necessary transit priority treatments to ensure the continued viability of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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788	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.2	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of the future transit pathway on Harrison St for 4 years, impacting several routes which would only have been recently established in this corridor. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
789	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.2	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of Westlake Ave from 7th Ave to Denny Way for 4 years, impacting not just the Seattle Streetcar but RapidRide C line, Route 40 (a future RapidRide line) and several regional services. With few viable reroutes available and high levels of transit priority already established along Westlake, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
790	Ch 3 Transportation Environment and Consequences	3-139	3.19.4.2	Benjamin Smith	SDOT	Alternative DT-1 includes a full closure of Pine St from 4th to 5th Aves for 6 years, impacting local and trolley routes. With few viable reroutes available and the direct connection to Westlake Station at risk, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
791	Ch 3 Transportation Environment and Consequences	3-140	3.19.4.2	Benjamin Smith	SDOT	Alternative DT-2 includes a full closure of Pine St from 5th to 6th Aves for 4 years, impacting local and trolley routes. With few viable reroutes available and the direct connection to Westlake Station at risk, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
792	Ch 3 Transportation Environment and Consequences	3-140	3.19.4.2	Benjamin Smith	SDOT	Alternative DT-2 includes a full closure of Taylor Ave N from Mercer to Roy Sts for 4 years, impacting trolley routes 3 and 4. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific reroute pathway including turns, and proposed transit priority treatments to mitigate the displacement of this transit pathway.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
793	Ch 3 Transportation Environment and Consequences	3-141/142	3.19.5.1	Benjamin Smith	SDOT	Alternatives SIB-1 & -2 assume partial closures of Elliott Ave W and/or 15th Ave W for up to 1 1/2 years, impacting the RapidRide D line and several local and peak routes. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on prioritizing transit through these restrictions as much as practical, and shall detail the proposed transit priority treatments to ensure the continued viability of this transit pathway.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
794	Ch 3 Transportation Environment and Consequences	3-147	3.19.6.2	Benjamin Smith	SDOT	Alternatives IBB-1b & -3 assume full closures of the ramps to and from 15th Ave W to W Dravus St for 3 1/2 years, impacting the RapidRide D line and potentially other routes. With few viable reroutes available, Sound Transit shall coordinate with the City of Seattle and King County Metro on accommodating transit through this pathway as much as practical, or shall detail the specific proposed transit priority treatments, alternate stop locations, or alternate service connections to mitigate the displacement of this transit pathway.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
795	Ch 3 Transportation Environment and Consequences	3-150	3.19.7.1	Benjamin Smith	SDOT	The coordination of transit service impacts due to the West Seattle and Ballard Link Extensions are potentially severe, increasing operational cost, decreasing reliability, and harming the viability of key transit routes as a transportation mode in the City of Seattle. Due to these crucial factors, Sound Transit shall coordinate with the City of Seattle and King County Metro on maintaining transit operations as much as practical, and prepare a full transit operations plan with specific proposed projects as part of mitigation for the Extension projects, and include those in the Final Environmental Impact Statement. Because of the long lead time in planning and documenting these needs, this work should commence as soon as possible.	All (Systemwide)	See response to comment 769. Transit operations planning will occur as part of final design. However, Metro, the City of Seattle, and Sound Transit have coordinated on potential bus reroutes, pavement mitigation, and access improvements for potential detour routes that could be required to address the permanent and construction-related impacts. The Final EIS relates the relative magnitude of permanent and construction-related transit impacts of the different alternatives. Sound Transit is committed to working with Metro and the City of Seattle on implementing specific transit mitigation measures for the final alternative selected by the Sound Transit Board for construction. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
796	Ch 3 Transportation Environment and Consequences	3-150	3.19.7.1	Benjamin Smith	SDOT	Besides coordination related to the under-construction RapidRide G line, Sound Transit shall coordinate with the City of Seattle and King County Metro, as well as the Federal Transit Administration where applicable, to ensure continued viability of all federally-funded transit projects within Seattle, past, present or future.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
797	Acquisitions, Displacements, and Relocations	4.2.1-1	4.2.1.3	Vera Giampietro	OPCD	Please update tables 4.2.1-1 to 4.2.1-4 to differentiate between acquisitions for construction vs those for operations. This information is relevant to Land Use and other neighborhood impacts. Rainier Valley acquisitions that may have been intended for construction but not operation are still fenced off 13 years after station opening. This significant impact to the neighborhood streetscape, land use, visual quality, social resources, and more should be avoided on future projects including WSBL. It is important that partner agencies and communities understand Sound Transit's intent to develop or otherwise repurpose smaller/suboptimal TOD parcels in a timely manner. We can't differentiate between alternatives or recommend suitable mitigation without this information.	West Seattle (DUW, DEL, WSJ)	See response to comment 101. Please see Section 4.2, Land Use, of the Final EIS for more information on land conversion by acreage and future land uses. Areas not converted to transportation use would likely be available for redevelopment. Please also see Appendix J, Conceptual Design Drawings, to view the permanent project limits relative to the construction area based on the current design.
798	Acquisitions, Displacements, and Relocations	4.2.1-3	4.2.1.3	David Goldberg	OPCD	Table 4.2.1-3: Number of Potential Parcels Affected and Displacements by Alternative – Delridge Segment - The table should include acreage by land use type as well as the number of parcel. Ideally, the area would also be expressed as a percent of the area within 1/2 of a mile (where traditional ETOD would otherwise occur). The table should also identify the impact, expressed as existing units and development potential (emp/hh) under current zoning, using CoS development capacity model.	West Seattle (DUW, DEL, WSJ)	Please see Section 4.2, Land Use, of the Final EIS for more information on land conversion by acreage and future land uses. The number of affected parcels and property types are included in Section 4.1, Acquisitions, Displacements, and Relocations. Adding development potential to Section 4.1 is not consistent with the methodology for this section.
799	Acquisitions, Displacements, and Relocations	4.2.1-6	4.2.1.3.3	David Goldberg	OPCD	"Option DEL-1b and Option DEL-2b*" would acquire a portion of the Longfellow Creek Legacy Trail and Natural Area, but the use of the acquired area would not affect the function of the natural area or trail." PLEASE DESCRIBE WHY.	West Seattle (DUW, DEL, WSJ)	Please see Section 4.17, Parks and Recreational Resources, for a discussion of potential impacts to this trail.
800	Acquisitions, Displacements, and Relocations	4.2.1-9	4.2.1.7	Vera Giampietro	OPCD	Acquisitions and displacements mitigation should include right of return to TOD projects within the station area, for all segments and alternatives in both the Ballard and West Seattle Link Extensions.	All (Systemwide)	At this time, Sound Transit does not have a provision for first right of refusal.

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801	Acquisitions, Displacements, and Relocations	4.2.1-9	4.2.1.8	David Goldberg	OPCD	"In a location generally not less desirable than the location of the displaced person's dwelling with respect to public utilities, facilities, services, and the displaced person's place of employment." The Federal relocation guidelines will not be sufficient to address the relocation needs of BIPOC communities who would be inequitably burdened by disrupting place-based social connections. Please mitigate for unique impacts to BIPOC communities.	West Seattle (DUW, DEL, WSJ)	Please see Appendix G, Environmental Justice, for further discussion of impacts and mitigation for impacts on and mitigation for people of color. Please see Section 4.1.8, Sound Transit Real Property Acquisition and Relocation Policy, Procedures, and Guidelines Summary, of the Final EIS for more information on how Sound Transit would work with property owners to identify replacement properties.
802	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1.3.2 and Table 4.3.1-2	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives for acquisitions, displacements, and relocations is missing. As noted in previous comments, some of the alternatives impact special review districts and contributing historic buildings more than others. For each alternative, clarify displaced buildings and parcels in the special review districts and which properties contain contributing historic buildings. Seattle Chinatown National Register District abuts 5th Ave S. 5th Ave S. is also the western boundary of the Asian Design Character District and Retail Core, where street-level uses, and design character have added importance within Chapter 23.66. 5th & Jackson and 5th & King are significant focal points and gateways into the Historic Core of the ISRD. Analyze which alternatives has a greater direct and indirect impact and identify potential mitigation strategies or measures to adequately respond to historic and archaeological resources.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
803	Acquisitions, Displacements, and Relocations	4.3.1-5	4.3.1.3.2, and Table 4.3.1-2	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives for acquisitions, displacements, and relocations is missing. As requested in previous comments include demographic and socio-economic data for each listed displacement. Also include a footnote note in the table explaining the information listed in the section 4.3.1-5 "while residential displacements would occur due to a loss of access during construction are considered a long-term impact, the building would remain and could be used for housing following construction."	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
804	Appendix G - Environmental Justice	general	general	Katy Haima	OPCD	Since the analysis also "considers the potential for benefits and impacts to minority and/or low income people outside of the study area", expand the study area, especially for Delridge station. Study area currently leaves out areas that will access stations by bus. Expand to include more of the transit network that serves each station. Consider a Transit Access Study Area, which would include 0.5 mile to frequent transit that serves the station. Additional information about benefits to these areas is included in Section 6.	West Seattle (DUW, DEL, WSJ)	Effects to these areas are discussed where appropriate in Chapters 5 and 6 of Appendix G, Environmental Justice. Section 3.1.4 of Appendix G includes demographic information for these areas.
805	Appendix G - Environmental Justice	Page 2-1	2 Intro	Andrew Tran	OPCD	Per Level 3 (page 16), indirect economic and cultural displacement is highlighted. Provide more information on the indirect economic and cultural impacts of the project as stated in the Level 3 RET.	All (Systemwide)	Indirect displacement is discussed in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, and summarized where appropriate in Chapter 5 of Appendix G, Environmental Justice. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
806	Appendix G - Environmental Justice	Page 3-1	3.1	Andrew Tran	OPCD	Provide description and a table of social resources impacted by the project resources (per table 5.2 through 5.4) to accompany figures 3-1 and 3-2. Include organization name and descriptions and clients served.	All (Systemwide)	See Appendix L4.4, Social Resources, which identified social resources in the study area and identifies any that would be displaced by one or more project alternatives. Section 4.14, Public Services, Safety, and Security, lists the public services available in the study area and describes any impacts to these services. These resources are discussed in Appendix G, Environmental Justice, if they are effected.
807	Appendix G	3-12	3.2.	Andrew Tran	OPCD	Include culturally significant community landmarks and destinations as identified by residents and community members through outreach and engagement.	All (Systemwide)	These have already been included where Sound Transit has been able to identify based on available information and community feedback.
808	Appendix G - Environmental Justice	Page 3-17	3.2.1	Andrew Tran	OPCD	Per Level 2 and Level 3 RET, the historical harm caused by infrastructure projects were highlighted. Include in this section and refer to Level 3 RET page 20.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
809	Appendix G - Environmental Justice	Page 3-18	3.2.2	Andrew Tran	OPCD	Provide not just a narrative but relevant data on people who are unsheltered, such as number of shelters (incl. number of beds) in the study area and by segments	All (Systemwide)	No shelters for people who are unsheltered were identified in the study area for the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
810	Appendix G - Environmental Justice	Page 3-5, 3-17	3.1.1/3.1.2 3.2.1/3.2.2	Andrew Tran	OPCD	Please include a separate section that intersects data between low-income populations and minority populations	All (Systemwide)	The demographics information is standard for an Environmental Justice analysis.
811	Appendix G - Environmental Justice	Page 3-6	3.1.3	Lucien Ong	OPCD	Add " For people with limited English proficiency," in front of the sentence that reads "The most common languages spoken at home...". The current phrasing means all home speakers of the language, not just speakers with LEP.	All (Systemwide)	Change made as requested.
812	Appendix G - Environmental Justice	Page 5-11	Table 5-2 (Economics)	Andrew Tran	OPCD	Per Sound Transit's ETOD Policy 2.1.3: "Make equitable TOD an integral component of and supportive of transit planning and delivery" and 2.2.4b "Community TOD: Support and promote TOD within the area around a Sound Transit facility (generally ½ mile, or a 10-15 minute walk, and along corridors that provide key connections to the regional transit system). Strategies that support community TOD may be identified and facilitated by Sound Transit or by others and may include partnerships." Please provide mitigation efforts to address ETOD and Community TOD as defined by Sound Transit's ETOD policy R2018-10.	All (Systemwide)	Equitable Transit-Oriented Development (TOD) is not an impact, and therefore no mitigation is required. Equitable TOD projects would be required to undergo environmental review and permitting consistent with existing regulations. Benefits related to Sound Transit's equitable TOD policy are discussed in Section 4.4, Social Resources, Community Facilities, and Neighborhoods, and Appendix G, Environmental Justice of the Final EIS.
813	Appendix G - Environmental Justice	Page 5-54	Table 5-x (Air Quality)	Andrew Tran	OPCD	For Air Quality resource, there are no listed impacts on Minority and Low-income People, particularly in Chinatown International District. Per Puget Sound Clean Air Agency's report on toxics in the CID, the neighborhood has among poorest air quality in Seattle, primarily due to pollutants from diesel fuel. Please describe the impacts of the influx and concentration of construction vehicles required in the CID for the project and their contribution to cumulative impacts.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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814	Appendix K - Present and Future Development, Transportation, and Public Works Projects in the Study Area	K-4	Table K-1a	Lucien Ong (ADEIS: Aaron Hursey)	OPCD	Include details on unit count and unit size for foreseeable future developments in Table K-1a. Should include number of market rate and affordable housing units, as well as unit sizes (studio, 1-bdrm, 2-bdrm, etc.)	All (Systemwide)	Information provided in this table is from City permitting databases. Information shown reflects information available in databases, and the number of units was added to projects in Appendix K, Present and Future Development, Transportation, and Public Works Projects in the Study Area, of the Final EIS where it was not yet included and could be determined. Further details on unit sizes is not available. Information on number of income-restricted units was only available for one Mandatory Housing Affordability performance unit project; this detail has been added to Appendix K. Information on number of income-restricted units for Multi-family Tax Exemption projects was not available.
815	CH 2	Page 2-51	2.1.2.2.2	Magda Hogness	OPCD	Provide more information on the direct underground connection opportunities and challenges given that the direct underground passenger transfer to the other direction of travel could be provided at these stations but would require mining under the existing Central Link line.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
816	CH 4	Page 4-2	4 (Intro)	Lucien Ong (ADEIS: Janet Shull)	OPCD	would the M.O.S. also conceivably have impacts of Visual and Aesthetic resources due to tail tracks at Smith Cove and at Delridge for example? Please study and disclose those impacts.	All (Systemwide)	There would not be a change in visual impacts for the Delridge Segment with the M.O.S; therefore, it is not listed here. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
817	Ch 4 Affected Environment and Environmental Consequences	4.2.1-2	4.2.1	Lucien Ong (ADEIS: Aaron Hursey)	OPCD	All summaries and tables should include information on unit size and unit quantity for each multi-family development as well as affordable housing developments, that are affected/displaced. Summaries should include information by segment. Without this information we can't differentiate between alternatives.	All (Systemwide)	Displacements are provided by alternative within each project segment. The number of residential displacements reflect the number of units in any multi-family building that would be acquired. Unit sizes are not necessary for comparison of alternatives. Impacts to income-restricted housing are described in Section 4.4, Social Resources, Community Facilities, and Neighborhoods.
818	Ch 4 Affected Environment and Environmental Consequences	4.2.1-9	4.2.1.8	Katy Haima	OPCD	References 'research' but no data is shown in appendix that indicates there are adequate opportunities for relocation in the project area; only data given is for city as a whole. Need to disaggregate this data. Also needs to consider the size and qualities of spaces.	All (Systemwide)	Each relocation situation is unique and Sound Transit would work with individual residents to identify their relocation options. Residents may or may not choose to stay in the same area. Due to the constantly changing nature of the housing market, putting static data for smaller areas would not present an accurate picture at time of public review. Data shows overall trend in city.
819	Ch 5 Cumulative Impacts	General	General	Vera Giampietro	OPCD	Cumulative impacts need to address the confluence of impacts at CID that displace businesses, bring long term construction impacts, closures, and perceived closure of the western entrance to the community in an area that is more sensitive to disturbance. p. 4.3.3-13 Potential Adverse Economic Impacts from Construction "Businesses in the study area near construction... could be negatively affected by construction activities... patrons might choose to avoid construction areas or have greater difficulty accessing businesses near construction activity... This type of impact affects cultural, retail, and service businesses most directly because they generally rely on easy customer access... the type of affected business would... influence the degree of economic effects to local businesses from construction." Understanding the degree of economic effects from construction and displacements by understanding more about the businesses being displaced and their relative importance to the local community is necessary in order to differentiate between CID alternatives and to recommend proper mitigation. Are the 13 CID businesses car dependent for customers? Are the remaining CID businesses also car-dependent and therefore subject to significant impacts from construction-related parking?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
820	Ch 5 Cumulative Impacts	Page 5-14	5.4.6.1	Valerie Kinast	OPCD - SDC	The level of visual impact is being understated. Elevated stations that are being placed in the right of way between fully developed mixed use properties are not visually compatible - Zoning models anticipated the light and air of the right-of-way between buildings. Guideways of any height placed in the right of way present bulk that is not anticipated in our City plans. (Any object placed in the right of way in Seattle, from skybridges to art objects, is carefully reviewed as to its compatibility.) Above grade ancillary elements such as vent and utility structures, of underground stations in dense, intact, urban parts of the city are not compatible.	All (Systemwide)	The purpose of Chapter 5 is to evaluate cumulative impacts of the proposed project in combination with other past, present, and reasonably foreseeable projects. Visual impacts from the project are covered in Section 4.5, Visual and Aesthetic Resources, and Appendix N.2, Visual and Aesthetics Technical Report, of the Final EIS.
821	Ch 5 Cumulative Impacts	Page 5-22	5.4.16.2 and Appendix K, Table K-2	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. The Denny Mass Transmission Line project is not included in the Table K-2 or in the cumulative impacts section, 5.4.16. The Denny Mass Transmission Line is a foreseeable future action that underwent EIS in 2015 and is proceeding forward with design. Demonstrate that the project will be fully coordinated to avoid direct and indirect cumulative construction impacts or alternatively identify potential mitigation strategies or measures to adequately respond to direct and indirect impacts associated with transportation; acquisitions, displacements, and relocations; land use; economics; social resources, community facilities, and neighborhoods; air quality; public services, safety, and security; utilities; and historic and archaeological resources.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
822	Economics	4.2.3-12	4.2.3.3.4	Vera Giampietro	OPCD	In "Businesses and Employee Displacements" there is not enough information to differentiate between the alternatives in terms of the scale of economic impact of the business displacements to the community as a whole. What percentage of the community- and culturally-supportive business do the business displacements represent? What do community members say about how important these businesses are to their collective economic success? Without that information it is difficult to differentiate between the alternatives to understand how important these businesses are to the overall economic health of Delridge communities. Please apply a narrative and catalog of businesses displaced similar to the one applied to the Interbay/Ballard Segment on pages 4.3.3-9 - 4.3.3-12.	West Seattle (DUW, DEL, WSJ)	See Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for more information on community impacts and loss of neighborhood businesses. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
823	Economics	4.2.3-13	4.2.3.4.1	Vera Giampietro	OPCD	Notably both of the cost estimates described in Economics sections for West Seattle and Ballard Link chapters (e.g. on p. 4.2.3-13 under Potential Economic Impacts from Construction) have a single common alternative in the cost scenarios presented - for West Seattle it's DUW-1a and for CID it's CID-2a. Should we request that they use entirely different variables for each comparison set?	West Seattle (DUW, DEL, WSJ)	The high and low cost "end-to-end" alternatives may have common segment alternatives due to limited connections in adjacent examples. For example, the low cost alternative in one segment may only connect to the high cost alternative in another segment, and that combination is still lower cost than all other possible permutations.

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824	Economics	4.2.3-16	4.2.3.4.4	David Goldberg	OPCD	This section should mention that the relative impact to businesses in the Delridge station area is quite high. Some of the alternatives would displace the ONLY community-serving businesses in the area.	West Seattle (DUW, DEL, WSJ)	See Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for more information on community impacts and loss of neighborhood businesses.
825	Economics	4.2.3-17	4.2.3.5	Vera Giampietro	OPCD	Narratives provided in this section Indirect Impacts of the Build Alternatives should also be included in the Ballard Link Extension equivalent section of the Economics chapter. These narratives include: "Development of the project would likely bring more dense and mixed-use land uses to station areas consistent with adopted land use plans, which could result in increased economic activity, increase development and redevelopment potential of surrounding properties, and increased property value of parcels near the station." Include statements about potential economic displacement due to rising rents for both businesses and residences. This is substantiated below where it says "Many case studies have found that residential and commercial properties within the vicinity of light rail stations typically experience an increase in property values and are ultimately valued higher than similar properties not near light rail stations (Transportation Research Board 2004, Nelson 2017)..." and on p. 4.2.3-18 "Indirect displacement might occur as a result of new development patterns that increase rents or saturate local market area with similar-businesses, drawing away sales from existing businesses." Combine this discussion with the Comp Plan Equity Analysis that presents theories around displacement risk. Without this information we cannot recommend appropriate mitigation for displacements expected to occur as a result of increasing property values.	West Seattle (DUW, DEL, WSJ)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
826	Economics	4.2.3-17	4.3.3.5	Vera Giampietro	OPCD	Apply the logic here to the CID station and community, where the DEIS asserts that "heavier pedestrian activity near surrounding stations and important nodes of economic activity would increase the number of potential customers to retail businesses in the area and synergy between businesses, which occurs when individual business [sic] benefit from clustering near each other, allowing customers to shop more efficiently." The reverse of this benefit will occur during construction in the CID with CID-2a and CID-2b alternatives, where businesses are displaced, foot traffic is discouraged due to construction, and business synergies are potentially lost indefinitely. Without identifying this cumulative impact for CID we cannot recommend appropriate mitigation for impacts to CID communities.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
827	Economics	4.2.3-18	4.2.3.5	Jim Holmes	OPCD	Relocation assistance to may mitigate displacement of maritime businesses, but if those relocations are two industrial shorelines in other Cities (Everett, Tacoma) then that will undermine existing maritime economic clusters in Seattle.	West Seattle (DUW, DEL, WSJ)	The discussion of impacts to water-dependent businesses impacted by the West Seattle Link Extension alternatives has been updated in Section 4.3, Economics.
828	Economics	4.2.3-19	4.2.3.6	David Goldberg	OPCD	Given the impacts at Andover for some Delridge Alternatives, the proposed mitigations seem inadequate. Something in the order of acquiring land in the area to support local relocation of community serving businesses, would help.	West Seattle (DUW, DEL, WSJ)	Sound Transit relocation agents work with individual businesses as described in Section 4.1, Acquisitions, Displacements, and Relocations. Needs of individual businesses are taken into consideration in the relocation process.
829	Economics	4.2.3-19	4.2.3.6	Katy Haima	OPCD	Insufficient mitigation. Remove "as much as possible". Businesses must retain, at minimum, pedestrian access, as well as vehicular access if pedestrian access is limited or if the business operation require vehicular access.	All (Systemwide)	The 2nd part of the bullet is there to indicate coordination during times of limited access.
830	Economics	4.2.3-5	4.2.3.3.1	Katy Haima	OPCD	While the total number of businesses or jobs may not decrease due to ST's mitigation of providing relocation assistance, the temporary loss of revenue for business owners and jobs for workers is significant for those individuals, and timing of relocation must be such that time not in operation is minimal. Please include more detail about mitigation for these impacts. (Also applies to Ballard Link Extension)	All (Systemwide)	Sound Transit relocation agents work with individual businesses as described in Section 4.1, Acquisitions, Displacements, and Relocations. The timing of actual business relocation and any time period during with the business may be closed will be up to individual business owners.
831	Economics	4.2.3-6	4.2.3.3.1	Katy Haima	OPCD	Table 4.2.3-2: To better understand relative impacts to each area, include the affected industries, ratio of total businesses and employee displacements to the total in the segment. What is the total % that is being displaced? What kind of jobs are these (pay, level of education), especially those that may be difficult to relocate that are dependent on water?	All (Systemwide)	This information is not necessary to determine significant adverse effects. Some additional information about wages by sector has been added to Section 4.3.4.1.
832	Economics	4.3.3-16	4.3.3.5	Vera Giampietro	OPCD	This would be a good place to present research that demonstrates recent property value changes during light rail construction and following time of station opening. Displacement risk is a key focus of the City's Equity Analysis for the most recent Comprehensive Plan. This body of work should be presented alongside research showing property value impacts of light rail so that we can recommend appropriate mitigation.	All (Systemwide)	Section 4.4.2 of the Final EIS includes information from the City's displacement risk mapping. Please see Section 4.3.6 of the Final EIS for more information on the indirect impacts of the Project on property values. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
833	Economics	4.3.3-5	4.3.3.3.1	Vera Giampietro	OPCD	"...businesses that rely on a localized customer base might have more difficulty finding a suitable new location to serve the same population." Apply this concept to businesses proposed to be displaced in RET communities by analyzing which are more dependent on a localized customer base and therefore would be difficult to relocate while continuing to serve the same customers. Without this information we can't differentiate between Delridge alternatives nor can we assess what type of mitigation would be required above and beyond Sound Transit's relocation assistance program.	All (Systemwide)	No business displacements would occur in Racial Equity Toolkit (RET) communities in the West Seattle Link Extension study area. A response to this comment regarding the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
834	Economics	4.3.3-5	4.3.3.3.1	Vera Giampietro	OPCD	"Potential business displacements that affect specific populations are evaluated in Section 4.3.4, Social Resources, Community Facilities, and Neighborhoods." In 4.3.4 section 4.3.4.3.3 page 4.3.4-17 "Alternative CID-2a and Option CID-2b would have the most business displacements... There would be 13 business displacements at the edge of the neighborhood east of 5th Ave South for both Alternative CID-2a and Option CID-2b. These displacements may include businesses important to the community because of the history, strong cohesion, and long-standing community connections in the neighborhood." Though this reference describes "the community" it does not describe in any detail how "potential business displacements... affect specific populations." Apply the concept described in 4.3.3-5 section 4.3.3.3.1 page 4.3.3-5 that "businesses that rely on a localized customer base might have more difficulty finding a suitable new location to serve the same population" and describe those populations who might be reliant on the businesses proposed to be displaced, analyze who the 13 businesses serve, and share that information in the FEIS so that we can differentiate between the CID alternatives and recommend mitigation that would be required to successfully relocate the displaced businesses so that they continue to serve populations that they rely on for viability, and which rely on these businesses for cultural and community cohesion. With the information provided we don't know if cultural and community cohesion will be impacted beyond repair, which would be significant and adverse impact for a community of color.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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835	Economics	4.3.3-7	4.3.3.3.1	Vera Giampietro	OPCD	"...the total taxable assessed valuation of real property for Ballard Link Extension acquisitions is equal to 1.1 percent of the city of Seattle's overall assessed valuation in 2019." Please provide context and some detail about how different alternatives would vary in the amount of assessed land acquired for the project. 1.1% of City property tax revenue about \$4 million annually. Spread over the years of construction projected this amounts tens of millions of dollars in potential loss of property tax revenue. Without information about how different alternatives will yield property tax revenue for the City, we cannot differentiate between the alternatives.	All (Systemwide)	As described in Section 4.3, Economics, the amount of property tax collected is determined by statute and would not change. Collection of the same amount of property tax would just be distributed differently across remaining properties in the city.
836	Economics	4.3.3-8	4.3.3.3.3	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. For each potentially displaced business and affected property, provide information on the economic loss associated with the length of construction impact in relation to demographic and socio-economic data. Per SMC23.66.302, the International District is the urban focal point for the Asian American community and was established to promote, preserve and perpetuate the cultural, economic, historical, and otherwise beneficial qualities of the area, particularly the features derived from its Asian heritage. Without this analysis, potential conflicts with local controls cannot be determined for each of the alternatives and this information is needed to adequately compare the alternatives. Demonstrate that the project avoids all direct and indirect economic impacts or alternatively identify potential mitigation strategies and measures to ensure the International District neighborhood cohesion remains intact throughout construction.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
837	Economics	4.3.3-8	4.3.3.3.3	Vera Giampietro	OPCD	In "Businesses and Employee Displacements" there is not enough information to differentiate between the alternatives in terms of the scale of economic impact of the business displacements to the community as a whole. What percentage of the community- and culturally-supportive business do these 13 businesses represent? What do community members say about how important these businesses are to their collective economic success? Without that information it is difficult to differentiate between the alternatives to understand how important these businesses are to the overall economic health of CID communities. Please apply a narrative and catalog of businesses displaced similar to the one applied to the Interbay/Ballard Segment on pages 4.3.3-9 - 4.3.3-12.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
838	Executive Summary	ES-29	Table ES-5	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. Provide referenced assessments related to the third-party funding for reconstruction of the 4th Avenue South Viaduct. Demonstrate the added construction years for alternative CID-1a and CID-1b, due to reconstruction of the 4th Avenue South Viaduct. Clarity if the projects could be sequenced to limit and decrease construction timing impacts.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
839	Executive Summary	ES-29	Table ES-5	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. Provide information on why ridership is the same for all option, given that each influence northbound vs southbound travel patterns differently.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
840	Executive Summary	ES-29	Table ES-5	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. Under potential displacement, provide information on the severity of each impact with demographic and socio-economic data for each item listed.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
841	Executive Summary	ES-29	Table ES-5	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. Under historic properties and historic district with adverse effect, provide information on each of the three impacts and include details on onsite or offsite impact to each historic property/district as well as the magnitude of the impact.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
842	L4.1 Acquisitions, Displacements, and Relocations	general	general	Katy Haima	OPCD	Please break down the data to show which acquisitions are full and which are partial.	All (Systemwide)	Because the type of acquisition can change as design progresses, this information is not being identified at this time. This is consistent with the Sound Transit methodology for this analysis.
843	L4.1 Acquisitions, Displacements, and Relocations	L4.1-54	L4.1.2	Katy Haima	OPCD	Businesses are often dependent on locations and size of space; cannot assume that there is adequate retail space unless include data about the locations and available sizes of retail and industrial spaces.	All (Systemwide)	Each relocation situation is unique, and Sound Transit would work with individual residents to identify their relocation options. Residents or businesses may or may not choose to stay in the same area. Due to the constantly changing nature of the housing market, putting static data for smaller areas would not present an accurate picture at time of public review. Data show the overall trend in the city.
844	L4.3 Economics	L4.3-3	Fig. L4.3-1	Katy Haima	OPCD	The Forecast Analysis Zone for the Delridge Segment should include more of the Delridge corridor to the south, to include the communities and geographic area that will connect to the station via bus; especially since this is an equity area, need to understand the potential impacts	West Seattle (DUW, DEL, WSJ)	Areas to the south of the Delridge Segment corridor with respect to equity impacts are discussed in Appendix G, Environmental Justice.
845	Land Use	4.2.2-1	4.2.2.1	Geoff Wentlandt	OPCD	To provide enough information to compare alternatives and assess impacts, the land use study area should be expanded to address all areas within 0.5 mile of stations locations, not just those which include permanent project improvements and areas needed for project construction. A larger study area is needed to assess the indirect land use impacts.	All (Systemwide)	As defined in Section 4.2.2, Affected Environment, of the Final EIS, the project study area already includes areas within 0.5 mile of the project.
846	Land Use	4.2.2-10	4.2.2.3.4	Vera Giampietro	OPCD	Station heights are identified here but guideway heights are not explicitly called out. Land uses adjacent to guideways will be impacted differently by varying guideway heights. Please include guideway heights relative to existing zoning and describe potential impacts to land use resulting from disparity between zoned heights and proposed guideway heights. Without this information we cannot differentiate between alternatives or recommend appropriate mitigation.	West Seattle (DUW, DEL, WSJ)	Guideway heights are described in Chapter 2, Alternatives Considered, and shown in Appendix J, Conceptual Design Drawings, of the Final EIS. Guideway height is not compared to zoning height limits as the Seattle essential public facilities code specifies that tracks and their supporting structures do not require Master Use Permits and the City has not historically regulated the height of Sound Transit guideways. The visual impact analysis in Section 4.5, Visual and Aesthetics, and Appendix N.2, Visual and Aesthetics Technical Report, provides additional information about the guideway in relation to the surrounding area.
847	Land Use	4.2.2-11	4.2.2.5.1	Jim Holmes	OPCD	Clarify if TOD policy (Board Resolution R2018-10) requires 80% of surplus land four housing applies in aggregate or at each station.	All (Systemwide)	The Board Resolution quotes Revised Code of Washington 81.112.350(b)(i), which states that, unless certain exceptions apply, "a minimum of eighty percent of [Sound Transit's] surplus property to be disposed or transferred, including air rights, that is suitable for development as housing, must be offered for either transfer at no cost, sale, or long-term lease first to qualified entities that agree to develop affordable housing on the property, consistent with local land use and zoning laws." This policy is applied in aggregate.

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848	Land Use	4.2.2-11	4.2.2.5	Geoff Wentlandt	OPCD	There is not enough information to compare alternatives or assess the degree of impact because there is not enough information on indirect land use impacts. The only type of indirect land use impact assessed is the degree of TOD potential, but there are other critical types of indirect land use impact besides the degree of TOD potential. The EIS does not discuss the indirect land use compatibility impacts of land use changes that would occur over time due to introduction of a light rail station. There is no information on the compatibility impacts to land use outside of the project's footprint (outside of direct acquisitions and conversions to transportation uses). The indirect impacts analysis should review the existing land use pattern and built environment within 1/2 mile of the station locations. The analysis should contemplate the degree of incompatibility that would be created by introduction of TOD and induced development pressures associated with new light rail stations. Resulting land use incompatibilities that would be created should be characterized qualitatively. Land use incompatibilities include discordant patterns of: building scales, activity patterns, and times of day/night activity. In the West Seattle segment, this analysis would likely identify relatively greater indirect land use impacts near some of the Delridge station locations. In the Ballard segment this analysis would likely identify some relatively greater land use impacts for some of the Chinatown/ID station locations, and Seattle Center station locations.	All (Systemwide)	Land use around stations is determined by City zoning, not by the West Seattle Link Extension Project. The project may act as a catalyst for future development as described in Section 4.2.6, Indirect Impacts of the Build Alternatives, in Section 4.2, Land Use.
849	Land Use	4.2.2-12	4.2.2.5.2	David Goldberg	OPCD	References to station area development should clearly distinguish between "Agency TOD", Equitable TOD, and other TOD	All (Systemwide)	TOD potential is a measure used by Sound Transit to determine if one alternative has a greater possibility for development of surplus Sound Transit property than another into TOD. Surplus property will be developed in a way that is consistent with Sound Transit policies and City zoning regulations. This has been changed to "Agency TOD" to clarify. Agency TOD has requirements for Equitable TOD as discussed in this section.
850	Land Use	4.2.2-12	4.2.2.5.2	David Goldberg	OPCD	"All station alternatives within the Delridge Segment have some TOD potential based on current zoning and project footprints, except the two Delridge Way station alternatives (Alternatives DEL-3 and DEL-4*), which are primarily constructed within the right-of-way". This statement is incorrect. There is TOD and ETOD opportunity at DEL-3 and DEL-4, just less Agency TOD.	West Seattle (DUW, DEL, WSJ)	See response to comment 849.
851	Land Use	4.2.2-13	4.2.2.6	Geoff Wentlandt	OPCD	This does not adequately identify the need for mitigation. The conclusion that the "WSLE would not result in inconsistencies with adopted land use plans" is not correct per the comment above. There is likely to be needed mitigation for inconsistencies with plans created, and for indirect land use impacts for some or all of the Delridge station locations to address the transition of this area to a high-density TOD-supportive environment.	West Seattle (DUW, DEL, WSJ)	The project does not change zoning designations around station areas. Development of nearby land uses is controlled by the City per their zoning code and permitting process.
852	Land Use	4.2.2-13	4.2.2.5.2	David Goldberg	OPCD	"No mitigation would be required for land use impacts during operation or construction of the West Seattle Link Extension. In general, the West Seattle Link Extension would not result in inconsistencies with adopted land use plans." This statement is incorrect. As described in the section describing existing plans, each of the station area is designated and planned for additional growth in housing and community supportive uses. The acquisition of land and likely impact to redevelopment during construct, could negatively impact the development environment during lengthy construction phase. Sound Transit has a history of holding land that it doesn't need permanently. The DEIS should identify ways to track development impacts and integrate mitigation that encourages the development envisioned under city plans.	West Seattle (DUW, DEL, WSJ)	City and regional planning documents anticipate the project to be built. City zoning and land use plans anticipate additional growth in areas planned for transit. Sound Transit works to have land that it does not need after construction developed in accordance with its policies on TOD and City zoning regulations. No mitigation is required because there are no significant impacts requiring mitigation.
853	Land Use	4.2.2-3	4.2.2.1.2	Jim Holmes	OPCD	When referring to the industrial area identify it as the Duwamish MIC or the BINMIC. There is no 'Industrial District' in addition to those designations.	West Seattle (DUW, DEL, WSJ)	Industrial District is a generalized land use category consistent with Sound Transit's Land Use methodology. Information has been added to Section 4.2, Land Use, of the Final EIS to identify this as the Duwamish Manufacturing/Industrial Center. A response to this comment related to the Ballard Interbay North Manufacturing/Industrial Center will be provided as part of the environmental review process for the Ballard Link Extension.
854	Land Use	4.2.2-4	4.2.2.2	Jim Holmes	OPCD	Regional MIC policies do not currently call for TOD in MICs.	West Seattle (DUW, DEL, WSJ)	TOD is built near station areas so that residents and those using the retail and dining options can use the transit to access the TOD. There are no new stations proposed in the Duwamish Manufacturing/Industrial Center, only expansion of the existing SODO Station, and therefore TOD is not anticipated in this area.
855	Land Use	4.2.2-4	4.2.2.3.1	Jim Holmes	OPCD	Make the distinction about where Vision 2050 encourages growth of more and diverse types of affordable housing. Vision 2050 does not encourage housing in MIC's	All (Systemwide)	Information has been added to Section 4.2.4.1, Impacts Common to All Alternatives, of the Final EIS to specify that VISION 2050 discourages residential development in Manufacturing/Industrial Centers.
856	Land Use	4.2.2-5	4.2.2.3.1	Jim Holmes	OPCD	Potential need to relocate City Light Transmission lines to accommodate the proposed transportation use located along the busway to 6th Avenue South could result in limits on redevelopment of adjacent parcels to provide clearance for transmission lines.	SODO/CID	Information has been added to Section 4.2.6, Indirect Impacts of the Build Alternatives, of the Final EIS to address this comment. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
857	Land Use	4.2.2-5	4.2.2.3.1	Katy Haima	OPCD	Please include diagram showing entire segment and portions of the alignment that are in the ROW and those that are not.	All (Systemwide)	Maps showing the alignment and affected properties are available in Appendix L4.1, Acquisitions, Displacements, and Relocations, as indicated in the text referenced. In this appendix, the reader can locate the ROW and see how the alignments generally follow existing roadways. Please also see Appendix J, Conceptual Design Drawings.
858	Land Use	4.2.2-5	4.2.2.3.1	Katy Haima	OPCD	Please include the total percentage of each type of land use in each station area, as well as what percent of the land in the study area that land converted to a transportation use; using the citywide total does not adequately describe impacts in relation to the local context and neighborhood scale.	All (Systemwide)	Per Sound Transit's methodology for this analysis, the direct impacts qualitatively consider the scale of land use conversion within the context of the overall jurisdiction and identified comprehensive plan areas. Comparing land conversion by type of City land use is consistent with the methodology. Information has been added to Section 4.2.4.1, Impacts Common to All Alternatives, of the Final EIS to reflect the percentage of land use converted in the 0.5-mile study area.

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859	Land Use	4.2.2-9	4.2.2.3.2 - 4.2.2.3.5	Geoff Wentlandt	OPCD	These sections do not include enough information to compare consistency with plans between the alternatives because they do not discuss the City of Seattle's future land use map designation around the proposed station locations. Some future land use map designations are more appropriate for the location of high capacity transit stations than others. For example regionally-designated urban centers are the most appropriate locations, and City of Seattle designated urban villages are also appropriate locations for the demands associated with high capacity transit stations. It should be noted as an inconsistency with plans where a station location would be located outside of an urban center or urban village, as in the case of Delridge station locations.	West Seattle (DUW, DEL, WSJ)	The City of Seattle Future Land Use Map includes commercial/mixed use and multi-family residential areas adjacent to all proposed station areas. City of Seattle planning documents do not state that light rail stations need to be located within urban centers or urban villages. None of the Delridge stations are in an urban village as shown on the City's future land use map.
860	Land Use	4.2.2-9	4.2.2.3.4	Katy Haima	OPCD	Analysis only discusses direct impacts of land to transportation uses, not impacts to adjacent land due to conversion to transportation uses. Please discuss potential impacts and mitigation to land that is adjacent to converted transportation uses, especially residential and park land.	West Seattle (DUW, DEL, WSJ)	The potential for impacts to adjacent land uses is described in Section 4.2.6, Indirect Impacts of the Build Alternatives. Development of nearby land uses is controlled by the City per their zoning code and permitting process.
861	Land Use	4.2.2-9	4.2.2.3.4	Katy Haima	OPCD	Please discuss impacts on residential uses adjacent to station, especially those residential lots at the southeast corner of the block.	West Seattle (DUW, DEL, WSJ)	The potential for impacts to adjacent land uses is described in Section 4.2.6, Indirect Impacts of the Build Alternatives. Development of nearby land uses is controlled by the City per their zoning code and permitting process.
862	Land Use	4.3.2-1	4.3.2.1.2, Table 4.3.2-2	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. For the Chinatown-International District Segment alternatives, provide more information on the specific land that would convert to a transportation use and how this would meet the goals of the special review districts, specifically per SMC23.66. Without this analysis, the potential conflict with local controls cannot be determined. Provide information on how the existing pattern of land use would change along with indirect land use impacts in context with the special review districts.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
863	Land Use	4.3.2-10	4.3.2.3.3, 4.3.2.5.2	Geoff Wentlandt	OPCD	See previous comment above about indirect land use impacts. There is not enough information about indirect land use impacts to compare the impact of the alternatives. Of note, any discussion of the indirect land use impacts from the Chinatown/ID station locations is absent. An indirect land use impact analysis that looks at land uses within 1/2 mile of station locations could identify the degree to which community-oriented and civic land uses would be affected by the alternatives for the C/ID station.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
864	Land Use	4.3.2-11	4.3.2.4	Geoff Wentlandt	OPCD	There is not enough information to understand the land use impacts during construction. The degree to which the alternatives disrupt land use due to construction is not provided. It may not be true that impacts during construction "would not affect the land use types unless the property became vacant". Construction effects such as access closures, loud construction noises, and movement of heavy construction vehicles would affect the viability of adjacent and nearby land uses. Different alternatives could have different patterns of these affects. Construction activity is more likely to impact land uses with street level retail and civic and open space uses that are closely linked to access by pedestrians to visits for leisure.	All (Systemwide)	Impacts to nearby parcels from construction are described in Sections 4.1 Acquisitions, Displacements, and Relocations; 4.3 Economics; 4.6, Air Quality; and 4.7, Noise and Vibration; and Section 3.11, Construction Impacts, of Chapter 3, Transportation Environment and Consequences, of the Final EIS.
865	Land Use	4.3.2-14	4.3.2.6	Geoff Wentlandt	OPCD	This does not adequately identify the need for mitigation. There is likely to be needed mitigation for indirect land use impacts near some station locations. Indirect land use impacts would likely be found near some or all of the C/ID station locations if the land use pattern after construction would impact a concentration of community-oriented or civic uses. Equitable development measures to ensure retention of community-oriented and civic uses in the neighborhood could be needed.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
866	Land Use	4.3.2-5	4.3.2.3.1	Jim Holmes	OPCD	Make the distinction about where Vision 2050 encourages growth of more and diverse types of affordable housing. Vision 2050 does not encourage housing in MIC's	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
867	Land Use	4.3.2-6	4.3.2.3.1	Vera Giampietro	OPCD	This will require coordination with the City: "The project is a 'regional transit authority facility' and is, therefore, explicitly recognized as an essential public facility in the Growth Management Act (RCW 36.70A.200). Once a Ballard Link Extension alternative is selected, jurisdictions have a duty to accommodate the project in their land use plans and development regulations."	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
868	Land Use	4.3.2-7	Table 4.3.2-2	Lucien Ong (ADEIS: Aaron Hursey)	OPCD	All summaries and tables should include information on unit size and unit quantity for each multi-family development that is affected/displaced. Summaries should include information by neighborhood/segment	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
869	Land Use	4.3.4-1	4.3.1.1	Jim Holmes	OPCD	Refer to the Duwamish MIC not 'industrial district'	West Seattle (DUW, DEL, WSJ)	See response to comment 853.
870	Social Resources, Community Facilities, and Neighborhoods	4.2.4-12	4.2.4.3.4	Vera Giampietro	OPCD	This conclusion seems incorrect. Please clarify methodology that supports the following conclusion. City of Seattle does not agree, and without sufficient rationale we cannot accurately distinguish between alternatives, nor recommend proper mitigation. "Alternative DEL-3 and Alternative DEL-4* would also displace homes in the southeast corner of the Youngstown area, but three would be fewer displacements, and displacements would be closer to the arterial roads; therefore, neighborhood cohesion would not be affected."	West Seattle (DUW, DEL, WSJ)	Methodology includes looking at the displacement maps in Appendix L4.1, Acquisitions, Displacements, and Relocations, and comparing them with the existing conditions. No change made.
871	Social Resources, Community Facilities, and Neighborhoods	4.2.4-16	4.2.4.4.2	Vera Giampietro	OPCD	Identify mitigation for closure of the SODO trail between Royal Brougham Way and South Forest Street.	SODO/CID	Information on closure of the SODO Trail and proposed mitigation is provided in Section 3.11, Construction Impacts, of the Final EIS.
872	Social Resources, Community Facilities, and Neighborhoods	4.2.4-4	4.2.4	David Goldberg	OPCD	Sound Transit has characterized the Delridge Station as a transfer station where most riders arrive by bus. This section should also include demographics of the RapidRide h line ridershed.	West Seattle (DUW, DEL, WSJ)	This demographic information is provided in Appendix G, Environmental Justice.
873	Social Resources, Community Facilities, and Neighborhoods	4.3.4-16	4.3.4.3.3	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives is missing. Provide more information on how the light rail stations would be more integrated into the Chinatown-International District with these alternatives given the existing station and the degree to which some of the alternatives connect underground, while most require an above grade transfer connection and that project would increase ridership by about 50 percent compared to the No Build Alternative, largely due to rail-to-rail transfers between the two International District/Chinatown Station platforms. Demonstrate that the project avoids all direct and indirect impacts to neighborhood cohesion or alternatively identify potential mitigation strategies and measures to ensure the International District neighborhood cohesion remains intact throughout construction.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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874	Social Resources, Community Facilities, and Neighborhoods	4.3.4-16	4.3.4.3.3	Katy Haima	OPCD	Are any of the acquisitions cultural anchors (may be businesses), and if so, how would acquisition of these properties may impact neighborhood cohesion.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
875	Social Resources, Community Facilities, and Neighborhoods	4.3.4-16	4.3.4.3.3	Vera Giampietro	OPCD	Please explain the process by which it was determined that the project would not directly impact neighborhood cohesion. Throughout the document there have been examples of impacts that are not described here as contributing factors to cohesion, such as potential for both direct and indirect displacement, closure of the Chinatown Gate for a number of years, decreases in foot traffic, increases in construction impacts such as noise, vibration, utility shutoffs, fencing, dust, and more. It would help to include community member and business owner narrative about perceptions of impacts to help substantiate the claim that there is no direct impact to neighborhood cohesion. Without more information we cannot differentiate between alternatives or recommend appropriate mitigation for impacts to CID communities.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
876	Social Resources, Community Facilities, and Neighborhoods	4.3.4-18	4.3.4.3.5	Vera Giampietro	OPCD	The analysis applied to the South Interbay segment here should be applied to Delridge alternatives where the guideway runs alongside low-rise and single family development that is not proposed for acquisition and will sit in the shadow of a new multi-story light rail structure. "This alternative would place guideway columns across the southwest corner of the Interbay Golf Center property, permanently impacting playable area at the southwest corner of the golf course. This alternative would have the most impacts to social resources in this segment." The impacts could be greater than social cohesion alone, and could potentially include adverse property value impacts and compromised redevelopment potential in areas immediately adjacent to guideway structures. This impact should be studied. If these areas are re-zoned, we should know if it is likely for developers to see value in properties immediately adjacent to guideway columns, or if those properties would become undesirable and therefore limit ETOD potential within the community. Without information about how existing and potential future residences next to guideways will be impacted it is not possible to adequately differentiate between alternatives or recommend appropriate mitigation for impacts to Delridge communities.	All (Systemwide)	The potential to indirect changes to land use are discussed in Section 4.2.6, Indirect Impacts of the Build Alternatives, in Section 4.2, Land Use, of the Final EIS. The City is responsible for zoning designations and allowances adjacent to light rail. Property values are discussed in Section 4.3, Economics, of the Final EIS. Section 4.4, Social Resources, Community Facilities, and Neighborhoods, discusses the potential for impacts related to neighborhood cohesion.
877	Social Resources, Community Facilities, and Neighborhoods	4.3.4-19	4.3.4.3.6	Vera Giampietro	OPCD	The statement that neighborhood cohesion would not be impacted because there are "few residences" near the Ballard elevated alternatives is not accurate - there are multiple large multifamily housing developments within the immediate vicinity of both 14th and 15th Ave elevated alternatives. Also it is unclear in this paragraph if the analysis is referring to the Interbay or Ballard stations. Please revise this language.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
878	Social Resources, Community Facilities, and Neighborhoods	4.3.4-21	4.3.4.4.3	Vera Giampietro	OPCD	For impacts to business access within the CID, please identify appropriate mitigation so that businesses can continue to operate and so that the project does not create conditions for cultural displacement of this regionally unique cultural hub: "Closure of a portion of 5th Ave South for Alt CID-2a could inconvenience access between the existing International District/Chinatown Station and the Chinatown-International District community to the east... These roads would be closed for several years, which could inconvenience people traveling between the existing International District/Chinatown Station and the Chinatown-International District community to the east." Removal of parking, impediments to foot traffic flowing near retail businesses, noise, and presence of construction activity and machinery are examples of conditions that could impact access to businesses in the CID and therefore viability of this unique regional cultural hub.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
879	Social Resources, Community Facilities, and Neighborhoods	general	general	Katy Haima	OPCD	Does not discuss how DEL-5 and DEL-6 displace one of the only convenience stores/options for food access in the station area. Address this impact and propose mitigation for community.	West Seattle (DUW, DEL, WSJ)	This displacement is described under the discussion of Delridge Segment impacts in Section 4.4.4, Environmental Impacts of the Build Alternatives during Operation, of the Final EIS.
880	Social Resources, Community Facilities, and Neighborhoods	general	general	Katy Haima	OPCD	Does not disclose potential reduced cohesion due to perceived barrier during construction and during operation. Please address community cohesion, study and disclose impacts, and propose mitigation. Without these impacts we can't differentiate between alternatives.	All (Systemwide)	No specific section referenced. Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS does discuss neighborhood cohesion.
881	Social Resources, Community Facilities, and Neighborhoods	General	General	Vera Giampietro	OPCD	Changes to existing transit service will affect access to jobs for some, and those impacts are missing and should be added.	SODO/CID	While changes in transit service may affect access to jobs for some, the system will improve access to jobs for large numbers of people. See Chapter 1, Purpose and Need for West Seattle Link Expansion, for further information. Route restructuring for station access includes a public process and is approved by the King County Council within 2 years prior to each station opening. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
882	Technical Report: Visual	General	General	Lyle Bicknell	OPCD	Visual impact analysis is not sufficient for the tunnel stations. Impacts from above-grade components need to be assessed. This includes stand-alone station head houses, and any other above-grade facilities such as vent structures and traction substations.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
883	Technical Report: Visual	p 2-1	2.2	Valerie Kinast	OPCD - SDC	Outdated methodology was used, and our request in ADEIS comments to use the most up to date 2015 FHWA VIA Guidelines fully was ignored. Visual impacts are not completely disclosed. A too narrow definition of "sensitive viewers" is used, and viewers have not been involved in the process as recommended in the 2015 FHWA VIA Guidelines. The visual compatibility with existing conditions is portrayed as higher than it actually would be. In some places the baseline visual quality is placed lower than it should be. If impacted communities had been involved the baseline visual quality might be rated higher and impacts would be more substantial.	All (Systemwide)	Sound Transit has an established methodology used across all projects that is valid for visual assessment under NEPA. The visual impact methodology used for the WSBL Draft EIS was developed based on the Federal Highway Administration's 1988 guidelines but modified due to different needs for transit projects. The Federal Highway Administration 2015 guidelines were reviewed while updating the visual methodology for the WSBL Draft EIS. Public input opportunities were provided during the WSBL early scoping, scoping, and Draft EIS comment period. Existing impact analysis is consistent with Sound Transit methodology. Impacts have been reviewed based on comments received on the WSBL Draft EIS and have been updated in Appendix N.2, Visual and Aesthetics Technical Report, of the Final EIS as appropriate.
884	Technical Report: Visual	p 3-1	3.1.2	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the recreation, Indigenous, fishing, maritime industrial, and river clean-up communities should be involved.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
885	Technical Report: Visual	p 3-1	3.1	Valerie Kinast	OPCD - SDC	Visual impacts are not completely disclosed. A too narrow definition of "sensitive viewers" is used, and viewers have not been involved in the process as recommended in the 2015 FHWA VIA Guidelines. The visual compatibility with existing conditions is portrayed as higher than it actually would be. In some places the baseline visual quality is placed lower than it should be. Vent structures and entrance buildings with ancillary elements such as vent structures are not being considered.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
886	Technical Report: Visual	p 3-10	3.2.1	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments such as downtown, Ballard, and West Seattle Junction will result in visual impacts that should be disclosed, minimized, and mitigated.	SODO/CID	Station design for the preferred alternative is still being developed and will continue to be refined through preliminary design. Also see response to comment 116. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
887	Technical Report: Visual	p 3-10	3.2.2	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments such as downtown, Ballard, and West Seattle Junction will result in visual impacts that should be disclosed, minimized, and mitigated	Downtown	Ventilation structures were considered in the visual analysis consistent with the visual analysis methodology. As described in Section 4.5.4, Environmental Impacts of the Build Alternatives During Operation, Sound Transit developed design measures that include coordination with local communities and the City of Seattle throughout the design process. Station design will continue to be refined through final design. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
888	Technical Report: Visual	p 3-10	3.2.1	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Many, various viewers should be involved in a well tailored, participatory process. The process should be designed and carried out by people with high cultural competence. Experts in visual and aesthetics and culture in the public realm should be involved.	SODO/CID	See response to comment 883.
889	Technical Report: Visual	p 3-10	3.2.2	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the various communities that use our downtown should be involved. Communities of color should be involved.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
890	Technical Report: Visual	p 3-10	3.2.3	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the various communities that live and work within proximity and will pass by or use the facility frequently should be involved. Communities of color should be involved.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
891	Technical Report: Visual	p 3-11	3.2.4	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments such as downtown, Ballard, and West Seattle Junction will result in visual impacts that should be disclosed, minimized, and mitigated	Interbay-Ballard	See response to comment 887. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
892	Technical Report: Visual	p 3-11	3.2.4	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the various communities that live and work within proximity and will pass by or use the facility frequently should be involved. Communities of color should be involved.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
893	Technical Report: Visual	p 3-2	3.2	Valerie Kinast	OPCD - SDC	Visual impacts are not completely disclosed. A too narrow definition of "sensitive viewers" is used, and viewers have not been involved in the process as recommended in the 2015 FHWA VIA Guidelines. The visual compatibility with existing conditions is portrayed as higher than it actually would be. In some places the baseline visual quality is placed lower than it should be.	All (Systemwide)	See response to comment 883.
894	Technical Report: Visual	p 3-5	3.1.3	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the community should be involved.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
895	Technical Report: Visual	p 3-6	3.1	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments will result in visual impacts that should be disclosed, minimized, and mitigated.	All (Systemwide)	See response to comment 887.
896	Technical Report: Visual	p 3-6	3.1.4	Valerie Kinast	OPCD - SDC	Per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Viewers from the community should be involved.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
897	Technical Report: Visual	p 4-1	4.1.2.1	Valerie Kinast	OPCD - SDC	In this broad summary, please add that a very large bridge and several miles of very large guideways would be added to the environment in all alternatives.	All (Systemwide)	Table 4-1 of Appendix N.2, Visual and Aesthetics Technical Report, describes the project components that would be a part of the project regardless of alternative. The table includes elevated guideways (and associated structures), bridges, stations, and similar. No changes made to the text.
898	Technical Report: Visual	p 4-10	4.1.2.3	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
899	Technical Report: Visual	p 4-10	4.1.2.3	Valerie Kinast	OPCD - SDC	The full visual impacts of elevated guideways and stations is being underreported.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
900	Technical Report: Visual	p 4-10	4.1.2.3	Valerie Kinast	OPCD - SDC	In the Delridge section the impacts for alternatives and locations where many straddle bents will be needed were not adequately visualized, disclosed and mitigated.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
901	Technical Report: Visual	p 4-22	4.1.2.4	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
902	Technical Report: Visual	p 4-22	4.1.2.4	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments, including the West Seattle Junction, will result in visual impacts that should be disclosed, minimized, and mitigated	West Seattle (DUW, DEL, WSJ)	See response to comment 887.

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903	Technical Report: Visual	p 4-22	4.1.2.4	Valerie Kinast	OPCD - SDC	Identification of visual impacts of elevated Avalon stations are not adequate.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
904	Technical Report: Visual	p 4-22	4.1.2.4	Valerie Kinast	OPCD - SDC	In the West Seattle Junction section the impacts for alternatives and locations where many straddle bents will be needed were not adequately visualized, disclosed and mitigated.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
905	Technical Report: Visual	p 4-25	4.1.2.4 and figures 2-14a &b	Valerie Kinast	OPCD - SDC	It is wrong that alternative WSJ-2 would be a beneficial visual change to the neighborhood consider it would be a 70-80 foot bulky concrete structure in the right-of-way.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
906	Technical Report: Visual	p 4-29	4.2.2.1	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	All (Systemwide)	See response to comment 883.
907	Technical Report: Visual	p 4-29	4.2.2.2	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	SODO/CID	See response to comment 883.
908	Technical Report: Visual	p 4-29	4.2.2.2	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments, including the Chinatown International District, will result in visual impacts that should be disclosed, minimized, and mitigated	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
909	Technical Report: Visual	p 4-30	4.2.2.3	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
910	Technical Report: Visual	p 4-30	4.2.2.4	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
911	Technical Report: Visual	p 4-30	4.2.2.3	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments, including Downtown, SLU, and Uptown, will result in visual impacts that should be disclosed, minimized, and mitigated	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
912	Technical Report: Visual	p 4-30	4.2.2.4	Valerie Kinast	OPCD - SDC	In the South Interbay section the impacts for alternatives and locations where many straddle bents will be needed were not adequately visualized, disclosed and mitigated.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
913	Technical Report: Visual	p 4-36	4.2.2.5	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
914	Technical Report: Visual	p 4-36	4.2.2.5	Valerie Kinast	OPCD - SDC	The placement of entrance buildings with ancillary elements such as vent structures in established dense, urban environments, including Ballard, will result in visual impacts that should be disclosed, minimized, and mitigated	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
915	Technical Report: Visual	p 4-36	4.2.2.5	Valerie Kinast	OPCD - SDC	The visual impacts of a large bridge over the Duwamish river are underreported.	Interbay-Ballard	See response to comment 883.
916	Technical Report: Visual	p 4-36	4.2.2.5	Valerie Kinast	OPCD - SDC	The visual impacts of miles of elevated guideways is being underreported.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
917	Technical Report: Visual	p 4-44	4.3.3	Valerie Kinast	OPCD - SDC	The City of Seattle's Design Guidelines are administrated within the Design Review (Design Review Board) Program. This project is not subject to Design Review Board review it is subject to Design Commission Review.	All (Systemwide)	Text has been revised in Final EIS Section 4.5.4.1 and Section 5.2, Sound Transit Design Measures, of Appendix N.2, Visual and Aesthetics Technical Report, of the Final EIS to specify future coordination with the City. Please see Section 2.3, Regulatory Requirements, of Appendix N.2 for a references to local codes. Please see Sections 5.2 and 5.3 of Appendix N.2 for detailed descriptions of visual design measures and mitigation measures.
918	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	The aesthetics of stations and other structures will be reviewed by the Seattle Design Commission.	All (Systemwide)	See response to comment 917.
919	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Sound Transit will work collaboratively with the City of Seattle and communities from pre-design through 100% design of above, at, and below grade stations to minimize visual impacts by developing a civic aesthetic for each station that is aligned with the community vision.	All (Systemwide)	See response to comment 917.
920	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Any new Sound Transit design criteria for WSBLE should provide for substantial input by the City of Seattle and be coordinated with the City of Seattle Design Guidelines for WSBLE.	All (Systemwide)	Sound Transit has not adopted any new design criteria between the publication of the WSBLE Draft EIS and the present. The comment is noted. Sound Transit will coordinated closely with the City in the event of a proposed change in Sound Transit's design guidelines with respect to the Project.
921	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Design stations, guideways, and other structures to meet community defined aesthetics.	All (Systemwide)	See response to comment 917.
922	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Any new Sound Transit design criteria for WSBLE should provide for substantial input by the City of Seattle and be coordinated with the City of Seattle Design Guidelines for WSBLE.	All (Systemwide)	See response to comment 920.
923	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	The Sound Transit criteria and design process must allow for local input on systemwide elements, not just contextual elements. "Elements of continuity" make up much more of the station than "elements of distinction," so allowing local jurisdiction influence over only the elements of distinction prevents them from being able to address the bulk and scale of the facilities.	All (Systemwide)	See response to comment 921 and bullets listed in Section 5.2, Design Guidelines, of Appendix N.2, Visual and Aesthetics Technical Report.
924	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Prior to 15% station design, solicit input from the OPCD and the Seattle Design Commission on the "kit" of systemwide elements.	All (Systemwide)	See response to comment 917.
925	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	If a consistent architectural theme is developed for segments of WSBLE or the whole line, provide OPCD and the Seattle Design Commission substantial opportunity to provide input.	All (Systemwide)	See response to comment 917.

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926	Technical Report: Visual	p 5-1	5.2	Valerie Kinast	OPCD - SDC	Where joint development is anticipated, analyze development potential and set design parameters for the station and partner building that optimize urban design outcomes.	All (Systemwide)	As noted throughout Appendix L4.2, Land Use, of the Final EIS, following construction, and where allowed, remnant land could become available for redevelopment or joint development. A separate study on TOD has been conducted by Sound Transit. Please see Section 4.2, Land Use, of the Final EIS for more information on TOD. Joint development will be considered as design advances, and Sound Transit will continue to coordinate with the City of Seattle.
927	Technical Report: Visual	p 5-2	5.3.1	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the guideways, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	West Seattle (DUW, DEL, WSJ)	See response to comment 917.
928	Technical Report: Visual	p 5-2	5.3.2	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the guideways, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	All (Systemwide)	See response to comment 917.
929	Technical Report: Visual	p 5-2	5.3.1	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the new Duwamish bridge, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	West Seattle (DUW, DEL, WSJ)	See response to comment 917.
930	Technical Report: Visual	p 5-2	5.3.2	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of a Salmon Bay bridge, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	All (Systemwide)	See response to comment 917.
931	Technical Report: Visual	p 5-2	5.3	Valerie Kinast	OPCD - SDC	The proposed mitigation is lacking. Other infrastructure projects in the region in recent years have provided participatory processes for guiding aesthetic development of projects with special panels of community members and experts to mitigate the visual impacts of introducing very large transportation infrastructure into such complex environments with both natural features and longstanding, built urban fabric.	All (Systemwide)	See response to comment 917.
932	Technical Report: Visual	p 5-2	5.3.1 & 2	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the stations, provide a process for input by the City of Seattle on the aesthetics of the columns and substructures of stations at 15%.	All (Systemwide)	See response to comment 917.
933	Technical Report: Visual	p 5-2	5.3.1 & 2	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk, scale and nature of the Traction Power Substations provide opportunity for input by the City of Seattle, including the Seattle Design Commission, on design of prototypes and the TPSS themselves.	All (Systemwide)	See response to comment 917.
934	Technical Report: Visual	p 5-2	5.3.1 & 2	Valerie Kinast	OPCD - SDC	Develop with the City a tool, or process prior to FEIS, such as the Visual Quality Management Plan noted in the FHWA 2015 VIA Guidelines, to establish with communities viewer preferences, verify and modify them, and determine joint aesthetic goals for the corridor.	All (Systemwide)	See responses to comments 883 and 917.
935	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	The aesthetics of stations and other structures will be reviewed by the Seattle Design Commission.	All (Systemwide)	See response to comment 917.
936	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	Sound Transit should work collaboratively with the City of Seattle and communities from pre-design through 100% design of above, at, and below grade stations to minimize visual impacts by developing a civic aesthetic for each station that is aligned with the community vision.	West Seattle (DUW, DEL, WSJ)	See response to comment 917.
937	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	Any new Sound Transit design criteria for WSBL should provide for substantial input by the City of Seattle and be coordinated with the City of Seattle Design Guidelines for WSBL.	West Seattle (DUW, DEL, WSJ)	See responses to comments 917 and 920.
938	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	Develop with the City a tool, or process prior to FEIS, such as the Visual Quality Management Plan noted in the FHWA 2015 VIA Guidelines, to establish with communities viewer preferences, verify and modify them, and determine joint aesthetic goals for the corridor.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
939	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	Where joint development is anticipated, analyze development potential and set design parameters for the station and partner building that optimize urban design outcomes.	West Seattle (DUW, DEL, WSJ)	See response to comment 926.
940	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	Prior to 15% station design, solicit input from the OPCD and the Seattle Design Commission on the "kit" of systemwide elements.	West Seattle (DUW, DEL, WSJ)	See response to comment 917.
941	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	If a consistent architectural theme is developed for segments of WSBL or the whole line, provide OPCD and the Seattle Design Commission substantial opportunity to provide input.	West Seattle (DUW, DEL, WSJ)	See response to comment 917.
942	Visual and Aesthetics	4.2.5-3	4.2.5.3.1	Valerie Kinast	OPCD - SDC	The Sound Transit criteria and design process must allow for local input on systemwide elements, not just contextual elements. "Elements of continuity" make up much more of the station than "elements of distinction," so allowing local jurisdiction influence over only the elements of distinction prevents them from being able to address the bulk and scale of the facilities.	West Seattle (DUW, DEL, WSJ)	See responses to comments 883 and 917.

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943	Visual and Aesthetics	4.3.5-10	4.3.5.3.4	Valerie Kinast	OPCD - SDC	In the Interbay to Ballard segment the impacts are underreported and should be reevaluated using the methodology of the more up to date FWHA 2018 VIA guidelines. The impacts to viewers other than the narrowly defined "sensitive viewers" must also be considered. There is substantial impact from adding an elevated guideway for a long distance. Elevated stations have substantial visual impacts. The bridge has greater visual impacts than reported. Areas where there are straddle bents, especially several of them, have substantial visual impacts. These must all be adequately visualized, disclosed, and mitigated. Impacts of the bridge should be evaluated using the participatory process as recommended in the FWHA 2018 guidelines.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
944	Visual and Aesthetics	4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	The proposed mitigation is lacking. Other infrastructure projects in the region in recent years have provided participatory processes for guiding aesthetic development of projects with special panels of community members and experts to mitigate the visual impacts of introducing very large transportation infrastructure into such complex environments with both natural features and longstanding, built urban fabric.	All (Systemwide)	See response to comment 917.
945	Visual and Aesthetics	4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the guideways, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
946	Visual and Aesthetics	4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	The proposed mitigation is lacking. Other infrastructure projects in the region in recent years have provided participatory processes for guiding aesthetic development of projects with special panels of community members and experts to mitigate the visual impacts of introducing very large transportation infrastructure into such complex environments with both natural features and longstanding, built urban fabric.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
947	Visual and Aesthetics	4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the elevated stations provide a process for input on the columns and substructures at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
948	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	The Sound Transit criteria and design process must allow for local input on systemwide elements, not just contextual elements. "Elements of continuity" make up much more of the station than "elements of distinction," so allowing local jurisdiction influence over only the elements of distinction prevents them from being able to address the bulk and scale of the facilities.	All (Systemwide)	See responses to comments 883 and 917.
949	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	If a consistent architectural theme is developed for segments of WSBL or the whole line, provide OPCD and the Seattle Design Commission substantial opportunity to provide input.	All (Systemwide)	See response to comment 917.
950	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Prior to 15% station design, solicit input from the OPCD and the Seattle Design Commission on the "kit" of systemwide elements.	All (Systemwide)	See response to comment 917.
951	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Where joint development is anticipated, analyze development potential and set design parameters for the station and partner building that optimize urban design outcomes.	All (Systemwide)	See response to comment 926.
952	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Develop with the City a tool, or process prior to FEIS, such as the Visual Quality Management Plan noted in the FHWA 2015 VIA Guidelines, to establish with communities viewer preferences, verify and modify them, and determine joint aesthetic goals for the corridor.	All (Systemwide)	See response to comment 883.
953	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Develop with the City a tool, or process prior to FEIS, such as the Visual Quality Management Plan noted in the FHWA 2015 VIA Guidelines, to establish with communities viewer preferences, verify and modify them, and determine joint aesthetic goals for the corridor.	All (Systemwide)	See response to comment 883.
954	Visual and Aesthetics	4.3.5-3	4.3.5.3.1	Valerie Kinast	OPCD - SDC	The aesthetics of stations and other structures will be reviewed by the Seattle Design Commission.	All (Systemwide)	See response to comment 917.
955	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
956	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Valerie Kinast	OPCD - SDC	In the CID the placement of entrance buildings with ancillary elements such as vent structures in this established dense, urban environments will result in visual impacts that should be disclosed, minimized, and mitigated.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
957	Visual and Aesthetics	4.3.5-4	4.3.5.3.2	Valerie Kinast	OPCD - SDC	In the CID, per 2015 FHWA VIA Guidelines use the "public involvement approach" to determine visual impacts. Many, various viewers should be involved in a well tailored, participatory process. The process should be designed and carried out by people with high cultural competence. Experts in visual and aesthetics and culture in the public realm should be involved.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
958	Visual and Aesthetics	4.3.5-4	4.3.5.3.3	valerie Kinast	OPCD - SDC	In the South Interbay segment the impacts are underreported and should be reevaluated using the methodology of the more up to date FWHA 2018 VIA guidelines. The impacts to viewers other than the narrowly defined "sensitive viewers" must also be considered. There is impact from adding an elevated guideway for a long distance. Elevated stations have visual impacts. The portal will have visual impact. Areas where there are straddle bents, especially several of them, have visual impacts. These must all be adequately visualized, disclosed, and mitigated.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
959	Visual and Aesthetics	p 4.2.5-1	4.2.5	Valerie Kinast	OPCD - SDC	Outdated methodology was used, and our request in ADEIS comments to use the most up to date 2015 FHWA VIA Guidelines fully was ignored. Visual impacts are not completely disclosed. A too narrow definition of "sensitive viewers" is used, and viewers have not been involved in the process as recommended in the 2015 FHWA VIA Guidelines. The visual compatibility with existing conditions is portrayed as higher than it actually would be. In some places the baseline visual quality is placed lower than it should be. If impacted communities had been involved the baseline visual quality might be rated higher and impacts would be more substantial.	West Seattle (DUW, DEL, WSJ)	See response to comment 883.
960	Visual and Aesthetics	p 4.3.4-8	4.3.4.1.1	Valerie Kinast	OPCD - SDC	In the CID, the Seattle Indian Health Board's Leshi Center is an 11 min walk from the station. It serves the region. The Chief Seattle Club is a seven minute walk from the station.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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961	Visual and Aesthetics	p 4.3.5-1	4.3.5.1	Valerie Kinast	OPCD - SDC	Outdated methodology was used, and our request in ADEIS comments to use the most up to date 2015 FHWA VIA Guidelines fully was ignored. Visual impacts are not completely disclosed. A too narrow definition of "sensitive viewers" is used, and viewers have not been involved in the process as recommended in the 2015 FHWA VIA Guidelines. The visual compatibility with existing conditions is portrayed as higher than it actually would be. In some places the baseline visual quality is placed lower than it should be. If impacted communities had been involved the baseline visual quality might be rated higher and impacts would be more substantial.	All (Systemwide)	See response to comment 883.
962	Visual and Aesthetics	p 4.3.5-1	4.3.5.1.1	Magda Hogness	OPCD	The information necessary to identify impacts and compare alternatives for visual and aesthetic resources is missing. Provide information on the size, location and visibility of the vents for each alternative. Demonstrate that the project avoids all impacts or alternatively identify potential mitigation strategies.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
963	Visual and Aesthetics	p 4.3.5-1	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Sound Transit should work collaboratively with the City of Seattle and communities from pre-design through 100% design of above, at, and below grade stations to minimize visual impacts by developing a civic aesthetic for each station that is aligned with the community vision.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
964	Visual and Aesthetics	p 4.3.5-1	4.3.5.3.1	Valerie Kinast	OPCD - SDC	Any new Sound Transit design criteria for WSBL should provide for substantial input by the City of Seattle and be coordinated with the City of Seattle Design Guidelines for WSBL.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
965	Visual and Aesthetics	p 4.3.5-10	4.3.5.3.4	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated. The impacts to viewers other than what was narrowly defined with the term "sensitive viewers" must also be considered. There is impact from adding an elevated guideway for a long distance. Elevated stations have visual impacts. Areas where there are straddle bents, especially several of them, have visual impacts.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
966	Visual and Aesthetics	p 4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the guideways, provide a process for input on guideway design, including columns and substructures, at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
967	Visual and Aesthetics	p 4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	Mitigation should be provided for visual impacts in the CID and Downtown.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
968	Visual and Aesthetics	p 4.3.5-19	4.3.5.6	Valerie Kinast	OPCD - SDC	To mitigate the height, bulk and scale of the elevated stations provide a process for input on the columns and substructures at 15% when City of Seattle (including Seattle Design Commission) input on aesthetics can be addressed in a more substantive manner than adding embellishment and color during final design. Provide opportunity for City input on aesthetics of the guideways from 15% through 90% design. If design build is employed, provide for City of Seattle (including Seattle Design Commission) input on RFP content and design decisions related to urban design and aesthetics in all design and construction phases.	All (Systemwide)	See response to comment 917.
969	Visual and Aesthetics	p 4.3.5-4	4.3.5.3.2	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated using the community involvement methods recommended in the more up to date FWHA 2018 VIA methodology.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
970	Visual and Aesthetics	p 4.3.5-4	4.3.5.3.3	Valerie Kinast	OPCD - SDC	The impacts are underreported and should be reevaluated. The impacts to viewers other than what was narrowly defined with the term "sensitive viewers" must also be considered. There is impact from adding an elevated guideway for a long distance. Elevated stations have visual impacts. Areas where there are straddle bents, especially several of them, have visual impacts.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
971	Executive Summary	ES-6	ES 3.1.1.1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. A statement about why Smith Cove was selected as the terminus for the Ballard Link Extension MOS options (similar to the explanation for why Delridge was identified as the terminus for the West Seattle Link Extension MOS). Given the land use and expected ridership, the Interbay station seems like a more effective place to terminate service compared to Smith Cove station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
972	Executive Summary	ES-8	ES 3.1.1.1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The CID section mentions that most buses using the SODO Busway today will be "replaced with light rail service currently under construction". Clarify if this statement also true for the SODO segment or if there are additional buses that will be impacted in this segment and additional mitigation required.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
973	Executive Summary	ES-8	Figure ES-9	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The graphic representation of the proposed overpasses at Holgate and Lander are misleading as they are proposed to extend all the way between 4th Ave and 6th Ave as shown in Appendix J.	SODO/CID	The Executive Summary provides tables and text for each segment that compares the impacts between alternatives. The figures in the Executive Summary are a high level graphical representation of the project elements. As noted in the comment, see Appendix J, Conceptual Design Drawings, of the Final EIS for the conceptual design of the South Lander Street Overpass. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
974	Executive Summary	ES-8	ES 3.1.1.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Impacts related to both freight mobility and non-motorized mobility as a result of the proposed grades of the Holgate and Lander overpasses are not discussed. Based on the information available in Appendix J, which does not include roadway grade details, it can be assumed that the grades would be approaching 10% which is above guidance for both truck streets and pedestrian routes. Both streets are major truck routes and Holgate is a heavy haul route. In addition, the pedestrian facilities would be above the recommended for accessible route and additional mitigation may be required (such as a grip rail, landings, or other features).	SODO/CID	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.10, Affected Environment and Impacts During Operation - Freight Mobility and Access, of the Final EIS for more information on potential impacts to freight on South Lander Street. Sound Transit has continued to work with agency partners as design has advanced. Please see Appendix J, Conceptual Design Drawings for the conceptual design of the South Lander Street Overpass. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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975	Executive Summary	ES-9	Table ES-1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Please provide an estimated duration of the SODO Trail detour. Providing a comparable facility on a parallel street may require reallocating vehicle lanes and may impact operations, including transit and freight mobility, for extended construction durations. These impacts need to be identified and named in order for appropriate mitigation to be developed.	SODO/CID	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on construction period impacts and mitigation including the SODO trail detour.
976	Executive Summary	ES-12	ES 3.1.1.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. In order to understand the feasibility of mitigating impacts to maritime businesses, there needs to be more information on what potential mitigation might include if any (relocating to another county or state?). Need to be more explicit about the significance of the impacts locally/regionally/nationally if businesses cannot relocate within Seattle. For comparison purposes, the table could indicate the number of business displacements that would be difficult to relocate within Seattle by alternative.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of water-dependent business impacts. Please see Section 4.3, Economics, of the Final EIS for more information on impacts to water-dependent businesses and the associated economic impact.
977	Executive Summary	ES-12	ES 3.1.1.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. There is no reference to the steep slopes of Pigeon Point or the proximity to the West Seattle Bridge structure for DUW-1a and DUW-1b.	West Seattle (DUW, DEL, WSJ)	The Executive Summary presents a summary of the key environmental impacts of the alternatives. Please see Section 4.11, Geology and Soils, of the Final EIS for more information on geological risks.
978	Executive Summary	ES-18	Table ES-3	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Duration of the Delridge Way SW partial closure is not included for the DEL-1b* alternative.	West Seattle (DUW, DEL, WSJ)	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on construction period impacts, including roadway closures.
979	Executive Summary	ES-32	Table ES-6	Elisabeth Wooton	SDOT	Correction. Preferred Alternative for the Downtown segment (DT-1*) should be shown with pink heading in the table.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
980	Executive Summary	ES-32	Table ES-6	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: bus and bike mitigation needed with a closure on 4th Ave between Pine and Olive Way. This closure would disrupt the bike network in downtown and would need to be mitigated by providing an equivalent all ages and abilities (AAA) connection through downtown or a westward connection to the existing 2nd Ave PBL.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
981	Executive Summary	ES-32	Table ES-6	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. ST and SDOT need to analyze each street closure, with corresponding tables of closures, duration, and extents as well as a map visual to understand the network impacts and ensure mitigation. SDOT will need to approve Traffic Control Plans. ST should not assume that the streets will be returned to existing channelization / condition post-construction.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
982	Executive Summary	ES-32	Table ES-6	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Curbspace and business delivery needs will need to be mitigated with any street closures to ensure businesses and resident's can still receive goods and materials.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
983	Executive Summary	ES-32	Table ES-6	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: A clear understanding of why city ROW would need to be used for an entrance plaza for Denny Station. Closure of 9th Ave in DT-1 could be rebuilt as public ROW differently than how it operates now. Need more information.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
984	Executive Summary	ES-34		Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Tiny house community displacement will need to be relocated to ensure harm is not introduced to vulnerable populations to the construction of SIB-1.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
985	Executive Summary	ES-34		Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Business access will need to be better analyzed and determined where turn pockets can be designed to accommodate necessary turning movements or specific focus at (new or existing) signalized intersection for U-turns.	All (Systemwide)	A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
986	Executive Summary	ES-34		Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. SIB-1 has the potential to provide a multi-use trail under/adjacent to the elevated track that would ensure safe walking and biking facilities to the west of 15th Ave W and east of the BNSF RR tracks in order to access the Interbay or Smith Cove stations. It would connect up to the existing Elliott Bay Trail. This should be considered mitigation for station access. If this is not part of the mitigation package for this station, then expansion of the existing Dravus St bridge over the RR tracks will be included.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
987	Executive Summary	ES-34		Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: additional evidence that the Smith Cove station should be the M.O.S. in the Ballard extension. There are zero non-motorized connections or transit service to Smith Cove from the Queen Anne neighborhood. Mitigation will need to be identified to allow people to access this M.O.S.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
988	Executive Summary	ES-35	Table ES-7	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: the need for the station at "Smith Cove." Is the primary purpose to be a M.O.S before the rest of the Ballard extension can open? Prefer the Interbay Station to act at the M.O.S. and not include the Smith Cove station at all. With a cost of \$1.3B and ridership of 2,600, it seems that investment could be used to ensure non-motorized access for those 2,600 users to get to the Interbay station in a safe and predictable manner or dedicate those funds to a tunnel crossing of the Ship Canal or other "third-party" funding ideas in the DEIS.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
989	Executive Summary	ES-36		Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: the broader regional impacts of maritime/water-dependent businesses that would be displaced and permanently closed. That industry is important to Seattle's diversified economy and important to take a closer look at the impacts of business closures to determine alignment. Water-dependent / maritime business impact with the tunnel option IBB-2a and b seem to be less than a bridge. Please elaborate. Fewer permanent impacts to treaty-fishing areas and maritime industries should be the goal in determining best alternative to cross the water. An equity lens should be the north star with this analysis.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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990	Executive Summary	ES-38		Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Interesting that there is mitigation mentioned for the displacement of 14th Ave NW Boat Ramp prior to construction, but no mention of potential mitigation for any other displacements mentioned, especially "Seattle Housing Authority low-income housing building" and it seems that ST could also ensure equivalent number of housing units are available in some other capacity. ST can look to incorporate a new grocery store within its land at the Ballard Station as the Safeway is well used by community.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
991	Executive Summary	ES-39	Table ES-8	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Impact of "limited pedestrian and bicycle access" is identified, but no mitigation proposed to ensure safe mobility during construction. Identify mitigation for trail closures with the same equivalent all ages and abilities (AAA) bike facility standard.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
992	Executive Summary	ES-39	Table ES-8	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Mitigation for the extended 14th Ave NE street closure is a different street channelization all together. The future vision could be similar to that installed north on 14th Ave NW between NW 59th St and NW 61st St - Gemenskap Park. The future of that street is not a four-lane cross section, even if parking is two of those lanes. The City, ST, and community should design the street together for the best outcome.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
993	Executive Summary	ES-40	ES.4	Elisabeth Wooton	SDOT	Language choice. Need to be more consistent with terms used to describe impacts throughout the document (temporary, construction, operational, short-term, long-term, etc.). In particular, "long-term" and "short-term" are relative terms that need to be defined. The use of "long-term" in the first paragraph of this section seems to relate to permanent, operation impacts. However, many of the construction impacts and closures last multiple years and are also referred to as 'long-term'. In the third paragraph of this section, it is unclear if 'long-term' is referencing permanent, operational impacts or construction impacts with long durations.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts of the alternatives. Definitions of these terms have been added to Chapter 3, Transportation Environment and Consequences, of the Final EIS. 'Long-term' is used for permanent operational impacts.
994	Executive Summary	ES-40	ES.4	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Need clarification on what parties are expected to fund the mitigation required to reroute buses to nearby streets due to construction impacts. The mitigation should take into account paving needs on these detour routes that may not have been designed for transit vehicles and also any OCS relocation as needed.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on mitigation of construction impacts. Site-specific improvements and mitigation to roadways will be determined through coordination with the City during final design and permitting. The Final EIS mitigation discussion does not include detail on mitigation funding, but estimated mitigation costs are included in the Final EIS cost estimates. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
995	Executive Summary	ES-40	ES.4	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. When providing detours through/around construction zones, meeting ADA standards alone is insufficient as that law is strictly related to buildings/facilities access and does not provide standards for public ROW or bicycle facilities. Detour routes or temporary access should at a minimum comply with the ADA's Proposed Public Rights-of-Way Accessibility Guidance (PROWAG), the City's Streets Illustrated, MUTCD, and any other City requirements (such as 10-2015: Pedestrian Mobility in and around Work Zones).	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Section 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report, of the Final EIS states that where possible, temporary facilities would be designed to applicable design standards such as Seattle Streets Illustrated (City of Seattle 2020) or Standard Plans for Municipal Construction (City of Seattle 2023), or as agreed to by the City of Seattle; at a minimum, they would comply with Americans with Disabilities Act requirements. If maintaining a facility is not feasible, Sound Transit would work with the City of Seattle to develop and implement a construction management plan to provide alternate facilities that, to the extent feasible, offer a similar level of protection and comfort. As design progresses, these detours will be refined in coordination with the City of Seattle.
996	Executive Summary	ES-40	ES.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Commit to funding affected bicycle facilities alternates that meet the AAA design standard, like ST committed to funding ped facilities. "Existing or planned designated bicycle facilities or routes may be permanently impacted by the project. Sound Transit would work with the City of Seattle to rebuild affected facilities or develop alternate facilities or routes. Pedestrian facilities would also be permanently impacted, and Sound Transit would fund improvements to mitigate these impacts, such as widened sidewalks or new walkways, as well as associated treatments that may be required for safe operations."	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts of the alternatives. As noted in Section 3.7.4, Mitigation for Operation Impacts, of the WSBL Draft EIS and the West Seattle Link Extension Final EIS for non-motorized facilities, the West Seattle Link Extension Project is not expected to permanently impact existing designated bicycle facilities or routes. If impacts are identified as the project advances, Sound Transit will work with the City of Seattle to rebuild the affected facilities or develop alternate facilities or routes that achieve, to the extent feasible, a similar level of protection and comfort afforded by the facility being impacted. These replacements would be funded by Sound Transit.
997	Executive Summary	ES-40	ES.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. With the blanket statement of "Sound Transit would develop Construction Access and Traffic Management Plans for the overall project ..." when does this occur and how is it wrapped into the regulatory process of the EIS and MUP decision to guarantee mitigation occurs as a result of the MUP decision? It feels like mitigation for numerous construction impacts and roadway reconstruction after construction should be called out in the FEIS.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on mitigation of construction impacts. A Construction Access and Traffic Management Plan would be developed to reflect continued design for the project, which will continue after publication of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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998	Executive Summary	ES-40	ES.4	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Please include crossing enhancements as mitigation and be clear about any restrictions on what ST would fund in terms of either scope or geography.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts of the alternatives. Please see Section 3.7, Affected Environment and Impacts during Operation - Non-motorized Facilities, of the Final EIS for more information on impacts and mitigation related to non-motorized facilities. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
999	Executive Summary	ES-40	ES.4	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Statement "During construction, ST would minimize potential effects on pedestrian and bicycle facilities by providing clearly marked detours within construction areas" needs further explanation of what "within construction areas" means. Also, need further explanation of what "ST would work with the City of Seattle to develop and implement a construction management plan" means in terms of funding and cost sharing.	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on mitigation of construction impacts. Mitigation does not include detail on mitigation funding, but cost of mitigation is estimated in the cost estimates. Please see Appendix J, Conceptual Design Drawings, for construction limits, which reflect the construction area as understood based on the current design. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1000	Executive Summary	ES-41	ES.5.2	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impacts have not been identified. In addition to CID and Downtown segments, Ballard and Interbay segments would have construction impacts related to closures of major arterials for long durations (15th Ave, Elliott Ave) with limited detour routes available.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1001	Ch 2 Alternatives Considered	2-2	2	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need further justification for why Smith Cove was selected as the terminus for the Ballard Link Extension MOS options. Given the land use and expected ridership, the Interbay station seems like a more effective place to terminate service compared to Smith Cove station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1002	Ch 2 Alternatives Considered	2-8	2.1.1.2	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Very non-committal statements in the DEIS about mitigation and access to stations and maybe Sound Transit would make improvements. "Sound Transit could make, or partner with other local agencies on, road improvements (such as sidewalks, bike lanes, or widening) or road realignments at some stations." Stronger commitment to access for people walking and biking will be necessary and required, as appropriate to ensure ridership projections.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Chapter 2 does not include mitigation. Please see response to CCG1 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1003	Ch 2 Alternatives Considered	2-11	2.1.1.2	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: a re-assessment of secured bike parking at the station areas. From past experience, it is difficult for Sound Transit to appropriately size and place bike parking for all sizes of bikes. Secure bike parking areas need to be a first-thought in station design as very few, if any different-sized bikes cannot reliably be taken on Light Rail due to lack of capacity and with more people buying e-bikes; safe storage will be critical for high ridership numbers and user comfort within the trains. Request Sound Transit to do additional secure bike parking analysis with ideas for each station area to expand secure bike parking capacity within Sound Transit-owned land.	All (Systemwide)	The purpose of Chapter 2, Alternatives Considered, is to explain the project components, general alignments, and station locations. Chapter 2 does not include analysis. Sound Transit is currently working through a process with the City of Seattle to forecast bicycle parking demand at each station. These forecasts will inform updates to the City of Seattle that will determine the amount of bike parking provided at each station. Bike parking will be designed and detailed in the final design.
1004	Ch 2 Alternatives Considered	2-22		Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Would like this to be stated as mitigation as the relocation of the SODO Trail is a big impact and would have to ensure its connections and amenities are improved and meets our standards of a multi-use trail width. "The SODO Trail would be relocated east of the station area, adjacent to the existing light rail line."	SODO/CID	The purpose of this chapter is to explain the project components and general alignments/station locations. Information on closure of the SODO Trail and proposed mitigation is provided in Section 3.11, Construction Impacts, of the Final EIS.
1005	Ch 2 Alternatives Considered	2-45		Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. In analyzing the SIB segment, location preference is to the west of 15th Ave W and not elevated along 15th Ave W, due to freight mobility and business access restrictions. With an elevated line on the west, that may present an opportunity to include a non-motorized connection in a great location and should be considered as part of a final mitigation package to ensure access to the Interbay and South Interbay stations achieve the anticipated ridership numbers.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1006	Ch 2 Alternatives Considered	2-46, 2-49	Table 2-2	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Unsure of how Sound Transit will get to a preferred alternative for CID segment? What criteria will be used that was not used in the DEIS process?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1007	Ch 2 Alternatives Considered	2-63, 2-65	2.1.2.2.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: The West Galer Street flyover pedestrian facility would be modified to maintain its function in approximately the same location, providing access to the station. Please include access for people biking to this station to determine mitigation needed. A multi-use trail below the elevated section should be considered.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1008	Ch 2 Alternatives Considered	2-63, 2-65	2.1.2.2.4	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: impacts with bus layover at the station; assuming that the buses would be off-street and not utilizing on-street opportunities. Prefer to have the buses out of the ROW when on layover.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1009	Ch 2 Alternatives Considered	2-67	2.1.2.2.5	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Many of the streets in this station area are not built to standards and Sound Transit should ensure enough funding to upgrade all streets to SDOT standards.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1010	Ch 2 Alternatives Considered	2-67	2.1.2.2.5	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: include in the discussion of alternatives, the importance of the maritime industry and necessity to maintain and preserve it, so the tunnel should be thought of as more viable part of the WSBL project without needing third-party funding. Many fewer impacts to mitigate with the tunnel option vs bridge options.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1011	Ch 2 Alternatives Considered	2-78	2.4.2.1	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: access from NW Seattle is not accurate as the goal should be how to get riders to use non-motorized transportation options to access each station - the Smith Cove station is in the middle of a vehicular environment that may have non-motorized access from the west side, but not the east side of Elliott Ave W.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1012	Ch 2 Alternatives Considered	2-78	2.4.2.1	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: off-street bus layover is the only acceptable solution for a new station. There should be no mention of on-street bus layover in the DEIS.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1013	Ch 2 Alternatives Considered	2-78	2.4.2.1	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: arguments made to establish M.O.S at Smith Cove is not satisfactory and should be more fully vetted to ensure the M.O.S should not be at the Interbay Station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1014	Ch 2 Alternatives Considered	2-95	2.8.2.1.2	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: the need for third party funding for a tunnel at the Ship Canal - the cost estimates are the equivalent to the elevated bridge structure.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1015	Ch 3 Transportation	3-1, Multiple	3.1, Multiple	Elisabeth Wooton	SDOT	Word choice. In the opening paragraph, using the phrasing "short-term" as the over-arching term to describe construction impacts is not reflective of some of the extended closures and construction durations (multiple years, up to 10 years in the case of the SODO Busway closure). The phrasing minimizes what are potentially very disruptive and long-lasting construction impacts. Suggest simply using 'construction' and 'operation' to signify the type of impact throughout the document. If the phrase 'short-term' is to be used, it should be defined more clearly and used to distinguish relative duration of impact related to construction activities (weeks/months versus years).	All (Systemwide)	Revised as suggested. "Short-term" is defined as closures of less than 1 year.
1016	Ch 3 Transportation	3-1	Table 3-1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Impacts to regional roadways as defined in section 3.3.1 need to be named, even if only construction impacts. Impacts to freeway ramps as well as the potential for detour traffic should be included in this table.	All (Systemwide)	Added discussion of nearby arterial closures and potential effects on regional roadways.
1017	Ch 3 Transportation	3-2	Table 3-1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. For Arterials and Local Street Operations, provide further quantification of construction impacts, especially for closures with long durations or closures that are overlapping. If potential detour routes are limited (either not available or already near/at capacity), then the DEIS needs to be explicit that capacity will be constrained and mitigation efforts will need to focus on partnerships to develop and implement TDM strategies, mode shift incentives, public awareness campaigns, transit service improvements, etc. If there are differences in the level of impact between alternatives, this needs to be made more clear.	All (Systemwide)	This is intended to be a summary table; the requested details are provided later in the chapter.
1018	Ch 3 Transportation	3-3	Table 3-1	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: the fact that the Interbay Station has zero pedestrian or bicycle infrastructure and would need all upgraded streets. Mitigation should also include the creation of a Ship Canal Trail extension directly to the Interbay Station (on the east side of the BNSF RR tracks).	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1019	Ch 3 Transportation	3-3	Table 3-1	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. If a key finding states "other stations would have less non-motorized activity" - that means there was no mitigation identified to increase non-motorized customers to access the station. Mitigation needs to be identified.	All (Systemwide)	The statement referenced by the commenter compares non-motorized activity across all stations. This forecasted activity is a function of ridership at each station and the mode of access methodology, which considers rider survey data, transit integration, and surrounding land use characteristics. The statement noting which stations are expected to have the highest non-motorized activity does not indicate an impact at other stations. Project-related impacts with respect to non-motorized volumes are based on the pedestrian L.O.S. analysis as defined in Attachment N.1A, Transportation Technical Analysis Methodology, of Appendix N.1, Transportation Technical Report.
1020	Ch 3 Transportation	3-3	Table 3-1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Non-motorized impacts during construction will be need to be mitigated to ensure most vulnerable travelers will have safe access around construction sites. Will need to learn more about "some street connections would be permanently closed, requiring pedestrian and cyclists to use alternate routes." This is unacceptable unless mitigation for such closures is confirmed.	All (Systemwide)	Temporary impacts to non-motorized facilities are identified in the Final EIS. These impacts and mitigation are summarized in Section 3.11, Construction Impacts, of the Final EIS. Mitigation, including proposed detours, is provided in detail in Chapter 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report, of the Final EIS.
1021	Ch 3 Transportation	3-3	Table 3-1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Event surge pedestrian LOS at Seattle Center station - this should be identified and mitigated on the train access platforms and surrounding street environment.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1022	Ch 3 Transportation	3-3	Table 3-1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: This section should also contain bus on- vs off-street layover impacts / key findings. In general, all the station areas that are anticipating high level of bus ridership transfers should have an off-street bus layover plan.	All (Systemwide)	Sound Transit has coordinated closely with Metro on the need for off-street layover through an bilateral concurrency document. All stations with off-street or newly constructed, station-adjacent layover were identified in Appendix B of Attachment N.1A, Transit Service Integration Technical Memorandum, of Appendix N.1, Transportation Technical Report. The Final EIS station diagrams for the preferred alternative more specifically identify potential construction and permanent layover impacts from the project. Mitigation for temporarily or permanent loss of layover has been identified in consultation with Metro and City of Seattle, as appropriate.
1023	Ch 3 Transportation	3-4	Table 3-1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Access improvements and what the curb space should look like at stations entrances, generally. We have no sense of how you plan to situate the access of customers to the station in any station area yet. So unsure of what impacts are needed to mitigate.	All (Systemwide)	The station plan drawings identify station access and were updated for the Final EIS.

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1024	Ch 3 Transportation	3-5	Table 3-1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: we do not have a true sense of access to the station area needs as "the study area generally extends 0.5 mile from the project alternatives (including stations)." The analysis should include the standard walk- and bike shed to high capacity transit to fully identify impacts and subsequently mitigation to ensure customers can get to the station safely and by walking or biking. Recommend using 1-mile for walkshed and 3-miles for bike shed as we know e-bikes are in the now and future. Also ensure the 18-foot sidewalk requirement adjacent to a station entrance is met - See SDOT Streets Illustrated 3.2 sidewalks and footnote #2: "Sidewalks adjacent to light rail stations shall be a minimum of 18 feet wide."	All (Systemwide)	The Final EIS used 10-minute sheds to indicate sidewalk condition and bike facility availability. Detailing facilities beyond this is outside the scope of the environmental impact analysis.
1025	Ch 3 Transportation	3-6	3.3.1	Elisabeth Wooton	SDOT	Correction. The West Seattle Bridge would be repaired (not replaced) prior to construction of the WSLE. Language used may confuse the public about the timing of the West Seattle High Bridge replacement which is expected to occur after light rail is extended to West Seattle.	West Seattle (DUW, DEL, WSJ)	The design of a future West Seattle Bridge replacement has not yet been approved. Based on coordination between Sound Transit and the City of Seattle to date, design of the light rail guideway over the Duwamish Waterway would not preclude future replacement of the West Seattle Bridge. Coordination between Sound Transit and the City of Seattle on this topic will continue as the West Seattle Link Extension and West Seattle Bridge projects advance.
1026	Ch 3 Transportation	3-10	Table 3-2	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. It is good to see that you included additional metrics to show what the project built would produce to reduce VMT. The change between "No Build" and "Build Alternative" is not that impressive, but at least it helps inch our way to climate action goals. Sound Transit should also discuss other actions that the region should take to further reduce VMT that other partners could move forward, such as congestion pricing. Sound Transit could also expand the study area even slightly to identify impacts to station access and provide mitigation that will help people access the stations in sustainable ways as recommended in previous comments.	All (Systemwide)	The non-motorized analysis includes qualitative and quantitative assessments of pedestrian and bike facilities around stations and mitigation for project impacts, as appropriate. The project design seeks to maximize station access opportunities at and adjacent to stations, and Sound Transit's Station Access Fund provides resources for improvements outside the station area, such as new and enhanced non-motorized facilities. While the project is, in part, intended to advance regional goals around vehicle miles traveled and sustainability, additional analysis of regional policies such as congestion pricing is outside the scope of this environmental process.
1027	Ch 3 Transportation	3-10	3.3.1	Elisabeth Wooton	SDOT	The analysis results are unclear. In existing conditions, "all five screen lines are over capacity in the peak travel direction" (pg. 3-7, 3.3.1) but in future conditions they are "at or near capacity with or without the project" (pg. 3-10, 3.3.1.2.2) even though only "modest vehicle volume decreases (0 to 3 percent)" in the Build alternative and presumably no decrease in the No Build alternative.	All (Systemwide)	The description was updated in the Final EIS for clarity.
1028	Ch 3 Transportation	3-10	3.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The first sentence has a parenthetical station "regional transportation (roadway and transit) facilities would not be not be noticeably impacted during the West Seattle Link Extension construction period." is inconsistent with the information included in Section 3.11.3.1 which states that there will be impacts to SR 99 and the West Seattle Bridge in the Duwamish segment, both of which are defined as regional roadways in this section.	West Seattle (DUW, DEL, WSJ)	Statement refers to traffic diversion; language edited for clarity.
1029	Ch 3 Transportation	3-10	3.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The first sentence has a parenthetical station "regional transportation (roadway and transit) facilities would not be not be noticeably impacted during the West Seattle Link Extension construction period." Regional transit was not previously defined. Based on the content of this section, it seems narrowly defined as light rail. The SODO Busway, which serves regional bus routes and is expected to be impacted in the SODO segment during construction and operations, should be considered a regional transit facility. Recommend either defining 'regional transit facilities' in section 3.3.1 in the same way that regional roadways were defined OR removing discussion of transit from this section and include any regional transit impacts in section 3.4.	SODO/CID	Discussion of regional transit impacts has been added to Section 3.4, Affected Environment and Impacts During Operation - Transit, and a cross reference added to Section 3.3, Regional Context and Travel. Impacts in Section 3.3 have been updated for the Final EIS.
1030	Ch 3 Transportation	3-10	3.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. For impacts to regional facilities as a result of the Ballard Link Extension, need to further define what "limited short-term impacts" means. Durations for the closures and impacted ramps should be provided. Also, it should be stated whether identified detour routes have capacity to accommodate additional traffic or not. If detour route are unavailable or at capacity, mitigation efforts will need to focus on partnerships to develop and implement TDM strategies, mode shift incentives, public awareness campaigns, transit service improvements, etc.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1031	Ch 3 Transportation	3-11	3.3.3	Elisabeth Wooton	SDOT	Mitigation measures for identified impacts are missing from the DEIS. Mitigation is not named for the construction impacts named in 3.3.2. Impacts to highway ramps need will need detour routes that can accommodate additional capacity. If detour route are unavailable or at capacity, mitigation efforts will need to focus on partnerships to develop and implement TDM strategies, mode shift incentives, public awareness campaigns, transit service improvements, etc.	SODO/CID	Additional discussion of potential mitigation has been added to this section of the Final EIS.
1032	Ch 3 Transportation	3-11	3.3.3	Elisabeth Wooton	SDOT	Mitigation measures for identified impacts are missing from the DEIS. Mitigation is not named for the construction impacts named in 3.3.2. The closure of the Stadium Station for up to 2 years under Alternative CID-1a*. Describe mitigation needed to ensure that sports and event attendees have alternative ways to travel to the stadiums while the Stadium Station is out of commission.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1033	Ch 3 Transportation	3-11	3.3.3	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. There needs to be more detail about each station area construction impacts and mitigation, as there will definitely be mitigation needed while certain streets are closed or modified to allow for construction. There is a lot of missing information.	All (Systemwide)	See the Arterials and Local Streets section of the Transportation Technical Report for more information on construction period impacts and mitigation.
1034	Ch 3 Transportation	3-13	3.4.1.3.1	Elisabeth Wooton	SDOT	The methodology used is misleading. Averaging the headways by number of buses inflates the existing headway value. Better to average headways by riders to reflect the fact that most riders are using the higher frequency routes.	West Seattle (DUW, DEL, WSJ)	See response to comment 86.
1035	Ch 3 Transportation	3-14	3.4.3.1.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are impacts to pavement, roadway configuration, and curb space management as a result of rerouting of bus routes to serve the Link stations. Mitigation needs to be identified for relocating loading zones and accessible parking space that are impacted, paving to support heavy transit vehicles, and any roadway modifications that might be needed to facilitate efficient transit service on roadways that currently don't serve transit. The City needs to be included in any coordination efforts related to rerouting of buses to ensure the City streets can sufficiently support transit operations.	SODO/CID	The Final EIS discusses impacts to pavement, lane channelization, curbspace, and parking. Mitigation text has been updated noting that some details are determined during permitting.

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1036	Ch 3 Transportation	3-14	3.4.3.1.2	Elisabeth Wooton	SDOT	Mitigation measures for identified impacts are missing from the DEIS. If the closure of the SODO busway will eliminate all existing layover areas and relocation of those layover areas is required, there will be impacts to curb space that will need to be mitigated. In particular, impacts to loading zone and accessible parking will need to be relocated to the greatest extent possible.	SODO/CID	This section of the Final EIS has been updated with additional information on impacts associated with relocated bus layover, including potential loss of other curb use functions.
1037	Ch 3 Transportation	3-15	3.4.3.1.3	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is incomplete. Summary of buses being rerouted in the Delridge segment should be provided in this Chapter without having to reference Appendix N.1.	West Seattle (DUW, DEL, WSJ)	Thank you for your comment. To keep the Final EIS at a reasonable length, details such as specific maps showing transit routing and detailed station design are in Final EIS appendices.
1038	Ch 3 Transportation	3-16	3.4.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Provide transit travel times under the MOS condition on the West Seattle Link Extension. Considering that Delridge Station would directly serve less than half of the potential ridership, most riders would be transferring from other transit service which are still operating on congested roadways or they would use the one-seat bus option provided under the MOS.	SODO/CID	Added discussion of travel times with the M.O.S. alternative to this section of the Final EIS.
1039	Ch 3 Transportation	3-16	3.4.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need to justify the assumption that using an elevator would reduce or eliminate the walk time as there is additional waiting time associated with elevator use, especially for deep stations.	SODO/CID	Elevator wait times in the Final EIS have been reviewed to confirm that they include elevator wait and dwell times. Added qualifying language where appropriate.
1040	Ch 3 Transportation	3-19	3.4.3.5.2	Elisabeth Wooton	SDOT	Formatting. Seems like Table 3-6 should be moved up into section 3.4.3.4 where it is referenced.	West Seattle (DUW, DEL, WSJ)	This table is in Section 3.4.3.4. No change.
1041	Ch 3 Transportation	3-23	3.5.3.1.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Significant impacts have not been identified. Missing are the impacts of the permanent closure of the SODO Busway (SODO-1a and SODO-1b). Depending on which street the remaining buses are rerouted to, there may be a need to include a bus only lane which could impact operations and increase delay for vehicles and freight on the corridor. Need to clarify what the base assumptions were in the Build condition for lane allocation on 4th and 6th Avenues and identify any potential impacts associated with dedicated bus facilities on these corridors, if needed.	SODO/CID	See response to comment 767. Section 9.4.1, Long-term Impacts, of Appendix N.1, Transportation Technical Report, of the Final EIS has been updated to address potential freight impacts.
1042	Ch 3 Transportation	3-23	3.5.3.1.1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Information about the expected grades of the Lander St overpass should be provided (as it may impact freight mobility) and the area of expected impact should be provided (will the intersections at 4th and 6th Aves need to be raised).	SODO/CID	The Final EIS has been updated to describe the anticipated grade of the South Lander Street railroad grade-separation structure as 7 percent. This is about the same as the existing Lander Street Grade Separation over the BNSF mainline to the west. Sound Transit will continue to coordinate with the City of Seattle and other agency partners as appropriate.
1043	Ch 3 Transportation	3-23	3.5.3.1.3	Elisabeth Wooton	SDOT	The analysis is incomplete. Significant impacts have not been identified. Many of the Delridge alternatives would require vehicles to recirculate off of main arterials onto lower volume, local streets. SW Nevada St, SW Dakota St, 30th Ave SW, and 32nd Ave SW are all residential, one-lane streets with parking on both sides. They are short segments with connectivity constraints and mostly uncontrolled intersections. As a result, they would be limited in their ability to safely and efficiently accommodate detour traffic. In addition, 26th Ave SW is an existing Neighborhood Greenway that is meant to remain low-volume to maintain safety for people biking. The volume of expected detour traffic needs to be quantified, including for the MOS condition, so that impacts and mitigation can be identified. Mitigation measures could include new intersection control, alternative Neighborhood Greenway route, traffic calming on residential streets, parking removal, crossing enhancements, etc. Some alternatives may be more or less disruptive and/or require more or less mitigation which would be helpful information when deciding a preferred alternative.	West Seattle (DUW, DEL, WSJ)	The WSBLE Draft EIS and West Seattle Link Extension Final EIS included analysis for each alternative reflecting any network changes that would be created by the alternative as well as traffic generated by the station. Diverted volumes are relatively low and intersection LOS results are shown for study intersections in the Delridge segment.
1044	Ch 3 Transportation	3-25	3.5.3.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Provide information about what assumptions were made in regard to accommodating buses on 4th Ave or 6th Ave under alternatives SODO-1a and SODO-1b where the SODO Busway is closed permanently. If bus lanes are provided to improve transit service, there would be impacts to operations on the detour corridors that need to be identified.	SODO/CID	See response to comment 767.
1045	Ch 3 Transportation	3-26	3.5.3.3.3	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Information about the assumptions of lane allocation on the West Seattle Bridge would help to understand impacts. There is an existing eastbound transit only lane on the bridge. Is that assumed in the Build condition? What about in the MOS condition when there are still buses operating on the bridge to provide a one-seat ride option?	West Seattle (DUW, DEL, WSJ)	The project would not modify the West Seattle Bridge. No change.
1046	Ch 3 Transportation	3-26	3.5.3.3.5	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Further consideration needs to be given to the street closures associated with Alternatives WSJ-4 and WSJ-5. There are potentially many impacts related to 'dead-ending' a street (such as right-of-way maintenance, emergency access, traffic diversions, pedestrian safety and access, etc.).	West Seattle (DUW, DEL, WSJ)	Additional discussion was added to the Final EIS regarding access and circulation-related effects of permanent street closures.
1047	Ch 3 Transportation	3-27	3.5.3.3.4	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Many of the Delridge alternatives would require vehicles to recirculate off of main arterials onto lower volume, local streets. SW Nevada St, SW Dakota St, 30th Ave SW, and 32nd Ave SW are all residential, one-lane streets with parking on both sides. Many of the potentially impacted intersections are uncontrolled and were therefore not included in the LOS analysis. The volume of expected detour traffic needs to be quantified, including for the MOS condition, so that impacts and mitigation can be identified. Traffic control should be considered for both increased vehicle and pedestrian activity at currently uncontrolled intersections or unmarked crossings using SDOT's Pedestrian Crossing Policy (dated 1/4/22).	West Seattle (DUW, DEL, WSJ)	Additional discussion was added to the Final EIS regarding access and circulation-related effects of permanent street closures.

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1048	Ch 3 Transportation	3-32	3.6	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Please use a two-block radius of the stations for the on-street parking analysis as that existing condition will be useful in better aligning curb space allocation at the stations for all the various uses.	All (Systemwide)	Text in the parking section has been updated to clarify the two study areas assessed: a near-project study area and a "hide-and-ride" study area. The near-project study area includes streets for on-street parking, which are generally within one block on either side of the light rail alignment as well as within one block of each station. Potential permanent or temporary changes to curb use functions are assessed for the near-project study area. The hide-and-ride study area includes all street segments and publicly available off-street lots within a 0.25-mile walking distance from the Build Alternative stations.
1049	Ch 3 Transportation	3-35	3.6.1	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Table 3-11 should include information about the number of commercial load zones and ADA parking spaces that would be displaced and will need to be considered for relocation. There may be differences in impacts depending on alternatives that would be helpful information for selecting a preferred alternative. At the very least, provide a reference the freight chapter which discussed loading zones.	All (Systemwide)	The Final EIS provides additional detail about Americans with Disabilities Act parking and different types of load zones.
1050	Ch 3 Transportation	3-36	3.7	Sara Zora	SDOT	The information necessary to identify impacts and compare alternatives is missing. Evaluating LOS at sidewalks, crosswalks, and intersections corners within one block of station entrances during the PM peak hour may not be sufficient to capture the potential safety and operational impacts of the project in certain locations where there are strong origin-destination correlations (such as near large employment centers or sports complexes) or limited pedestrian network (such as Delridge).	All (Systemwide)	Methods were revised to clarify that impact analysis would be extended beyond one block if an impact was identified at the station.
1051	Ch 3 Transportation	3-36	3.7.2	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Both the Bike Master Plan (2014) and Pedestrian Master Plan (2017) were developed before the WSBLE project was defined and therefore do not consider future station locations in their evaluation of the non-motorized network. In addition, the assumption that recommended networks will be complete when the West Seattle Link Extension goes into construction is not valid. Additional analysis has to be completed to determine appropriate bike and pedestrian access to each station area.	All (Systemwide)	The background project list was reviewed for the Final EIS to identify any new funded projects and updated plans, including through outreach to City staff to identify what projects should be assumed complete by 2042. Sound Transit will complete pedestrian and bicycle facility projects at its stations; offsite access improvements may be completed by others or in partnership through programs such as Sound Transit's Station Access Fund program.
1052	Ch 3 Transportation	3-38	3.7.3.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impacts have not been identified. SDOT's Georgetown to Downtown Protected Bike Lane project is planning to install protected bike lanes on 6th Ave S by 2024. This may offer an alternative to the SODO Trail for WSBLE construction but it needs to be coordinated with the Seattle City Light project to relocate high voltage power lines to 6th Ave S. If SCL and WSBLE overlap, there may be no safe biking route through SODO.	SODO/CID	Text has been updated in Section 3.7, Affected Environment and Impacts During Operation - Non-motorized Facilities, of the Final EIS to include this planned facility.
1053	Ch 3 Transportation	3-39	3.7.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The anticipated grade of the new overpass structures (Lander and Holgate) are unlikely to meet ADA standards for an accessible route (5% or less). Additional mitigation, such as the installation of grip rails or landings as feasible, may need to be identified pedestrian facilities on the overpass.	SODO/CID	The Final EIS has been updated to describe the anticipated grade of the South Lander Street railroad grade-separation structure as 7 percent. This is about the same as the existing Lander Street Grade Separation over the BNSF mainline to the west. Sound Transit will continue to coordinate with the City of Seattle and other agency partners as appropriate. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1054	Ch 3 Transportation	3-39	3.7.3.2	Elisabeth Wooton	SDOT	The analysis is incomplete. It should not be assumed that planned bicycle facilities in the SODO area will be implemented prior to WSBLE construction or that these projects are the best possible way to provide access to the ultimate station location. Further analysis needs to be done to identify the desired access network for people biking. Also, need to consider the Georgetown to Downtown Protected Bike Lane project on 6th Ave S which is planned to be constructed by 2024.	SODO/CID	See responses to comments 1051 and 1052.
1055	Ch 3 Transportation	3-39	3.7.3.4	Elisabeth Wooton	SDOT	The analysis is incomplete. It should not be assumed that planned bicycle facilities in Delridge area will be implemented prior to WSBLE construction or that these projects are the best possible way to provide access to the ultimate station location. Further analysis needs to be done to identify the desired access network for people biking. Also, if the permanent condition increases traffic to existing Neighborhood Greenways, such as 26th Ave SW, then mitigation needs to be identified to maintain the safety of people biking.	West Seattle (DUW, DEL, WSJ)	The West Seattle Link Extension is not expected to permanently impact existing designated bicycle facilities or routes, including neighborhood greenways. The roadways that are proposed for permanent closure are low-volume local access streets and closure would not lead to substantial shifts in traffic to neighborhood greenways. Furthermore, neighborhood greenways are designed to encourage vehicular users to drive slowly or use alternate routes, so modest fluctuations in vehicular volumes are not expected to result in safety impacts.
1056	Ch 3 Transportation	3-40	3.7.3.4	Elisabeth Wooton	SDOT	The analysis is incomplete. The statement "The remaining riders would access the station by walking or biking" seems inconsistent with the data presented in Table 3-6. Under the MOS, the number of drop-offs/pick-ups is expected to increase by 100% (from 50 to 100) compared to the full extension to WSJ. No additional walking or bike trips are expected as a result of the MOS. Need to confirm that the LOS results are correct and are reflective of the significant increase in transit transfers under the MOS condition.	West Seattle (DUW, DEL, WSJ)	The analysis and discussion were reviewed and revised for the Final EIS non-motorized analysis.
1057	Ch 3 Transportation	3-40	3.7.3.5	Elisabeth Wooton	SDOT	The analysis is incomplete. It should not be assumed that planned bicycle facilities in the WSJ area will be implemented prior to WSBLE construction or that these projects are the best possible way to provide access to the ultimate station location. Further analysis needs to be done to identify the desired access network for people biking.	West Seattle (DUW, DEL, WSJ)	See response to comment 1051.
1058	Ch 3 Transportation	3-40	3.7.3.5	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need information on the projected pedestrian LOS for the West Seattle Junction station area which is expected to serve 1,800 riders during the PM peak hour. Seems unlikely that the existing sidewalks and intersections will not be impacted by this increase in pedestrian activity.	West Seattle (DUW, DEL, WSJ)	The pedestrian LOS analysis was conducted again for the Final EIS and updated as appropriate.

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1059	Ch 3 Transportation	3-43	3.8.3.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Lower vehicle volumes do not always equal improved safety. Many cities, including Seattle, experienced increases in fatal crashes (particularly pedestrian fatalities) as volumes decreased during COVID. Also, the estimated reduction in both VMT and vehicle trips as a result of the WSBLE is very small and should not be overstated. Increasing pedestrian activity near historically high crash arterials will more likely increase the rate of collisions and mitigation (such as lighting, curb extensions at intersections, crossing enhancements, and traffic calming) should be identified.	West Seattle (DUW, DEL, WSJ)	See Section 3.8, Affected Environment and Impacts During Operation - Safety, of the Final EIS for an updated discussion of safety. Section 7, Safety, of Appendix N.1, Transportation Technical Report, provides additional detail on this analysis.
1060	Ch 3 Transportation	3-43	3.8.3.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Need to provide justification for the statement that expected increases in ped/bike activity near stations is relatively small as not all station areas are currently dense and congested with people walking, biking, and rolling (SODO, DEL, SIB). The proposed mitigation is incomplete in terms of ensuring safe access for people biking, walking, and rolling to access new stations. Additional mitigation could include, but is not limited to, additional lighting, curb extensions at intersections, crossing enhancements, upgraded bicycle facilities, and traffic calming, etc.	All (Systemwide)	Text has been added to Section 7, Safety, of Appendix N.1, Transportation Technical Report, of the Final EIS to address safety mitigation and include list of potential safety countermeasures. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1061	Ch 3 Transportation	3-44	3.8.3.4	Elisabeth Wooton	SDOT	The analysis is incomplete. Several significant impact have not been identified. Need to consider geometric changes, bus rerouting, or pick-up/drop-off activity that might increase traffic on adjacent residential streets to identify potential safety mitigation. Also, additional consideration should be given to crossing enhancements for all alternatives, not just DEL-5 and DEL-6. For instance, a new signalized crossing on Delridge Way SW at SW Dakota St to ensure people walking, biking, and rolling can safely access the station without out of the way travel or crossing a wide arterial at an uncontrolled location (See DEL-1a/b, DEL2a/b, DEL-3, and DEL-4 in Appendix J, pages 60-65).	West Seattle (DUW, DEL, WSJ)	The safety analysis performed for the Final EIS did not indicate impacts sufficient to warrant mitigation, and safety ramifications are not substantially different between alternatives because none have at-grade crossings and none increase volumes or alter the right-of-way to the degree that would create a safety hazard. There is also no history of crashes that would support mitigation. At present, a new signal at Southwest Dakota Street is not part of the design because of the availability of crosswalks to the north and south and the limited land use density on the east side of Delridge Way Southwest between those two crosswalks. However, a signal at this location is being considered as mitigation for potential traffic impacts; as the project advances, Sound Transit will work with the City of Seattle to determine whether and how to implement one. In addition, the City of Seattle and/or Sound Transit may, in the future, invest in further access improvement through programs such as the Sound Transit Station Access Fund.
1062	Ch 3 Transportation	3-44	3.8.3.5	Elisabeth Wooton	SDOT	The analysis is incomplete. Many transit users will be coming from or going to the commercial corridors and arterials, even if the station is not located there. Driver expectations and infrastructure on commercial corridors may create safer operations for people walking compared to increasing pedestrian activity on non-arterial streets. Further consideration of safety enhancements need to be identified for several alternatives such as crossing enhancements at 41st Ave SW and SW Edmunds St (WSJ-4 in Appendix J, page 104).	West Seattle (DUW, DEL, WSJ)	The safety analysis performed for the Final EIS did not indicate impacts sufficient to warrant mitigation, and safety ramifications are not substantially different between alternatives because none have at-grade crossings and none increase volumes or alter the right-of-way to the degree that would create a safety hazard. The City of Seattle and/or Sound Transit may, in the future, invest in further access improvement through programs such as the Sound Transit Station Access Fund.
1063	Ch 3 Transportation	3-45	3.8.4	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Increased numbers of people walking, biking, and rolling near stations will require additional mitigation to promote safe operations. Safety mitigation measures (which may overlap with non-motorized mitigation) include treatments such as street lighting, sidewalk extensions at crossings, speed cushions on non-arterial streets, crossing enhancements, upgraded bicycle facilities, etc.	West Seattle (DUW, DEL, WSJ)	The safety analysis performed for the Final EIS did not indicate impacts sufficient to warrant mitigation, and safety ramifications are not substantially different between alternatives because none have at-grade crossings and none increase volumes or alter the right-of-way to the degree that would create a safety hazard. The City of Seattle and/or Sound Transit may, in the future, invest in further access improvement through programs such as the Sound Transit Station Access Fund.
1064	Ch 3 Transportation	3-50	3.9.3.1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Please clarify if there are advantages to the bridge types that impact the navigational channel and/or tribal fishing rights that are not discussed. Otherwise, consider removing this bridge types from further consideration.	West Seattle (DUW, DEL, WSJ)	Text throughout the Final EIS describing bridge types and the associated impacts is appropriate for the level of design completed at this time. Additional information for Preferred Alternative DUW-1a, which would not have columns in the water, has been added to the Final EIS as design for this alternative has progressed.
1065	Ch 3 Transportation	3-52	3.10.3.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. The document needs to be clear about what the area of impact would be to ensure grades on the planned overpasses that meet truck street standards, especially for Holgate St which is a part of the heavy haul network. The recently constructed Lander St overpass, which has similar vehicle compositions, was required not to exceed 7% grades. Need to determine if it is feasible to achieve similar grades and if so, what would it entail in terms of roadway reconstruction to tie into the existing street network at 4th and 6th Aves.	SODO/CID	See response to comment 1042.
1066	Ch 3 Transportation	3-53	3.10.3.4	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Table 3-11 indicates that between 5 and 95 parking spaces would be permanently displaced in the DEL segment. Please confirm that none of these represent load zones and that it takes into consideration the rerouting of buses.	West Seattle (DUW, DEL, WSJ)	Section 3.6, Affected Environment and Impacts During Operation - Parking, of the Final EIS provides additional detail about Americans with Disabilities Act parking and different types of load zones..
1067	Ch 3 Transportation	3-53	3.10.3.5	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Table 3-11 indicates that between 30 and 135 parking spaces would be permanently displaced in the WSJ segment. Please confirm that none of these represent load zones and that it takes into consideration the rerouting of buses, especially under the MOS condition.	West Seattle (DUW, DEL, WSJ)	See response to comment 1066.
1068	Ch 3 Transportation	3-57	3.11.1.5	Elisabeth Wooton	SDOT	The analysis is incomplete. Need justification for the statement "the overall number of collisions in the area is not expected to substantially change as the total traffic volumes in the area would be similar." Is traffic volume the only factor that influences crash rates? What about changing or unexpected roadway conditions during construction?	All (Systemwide)	Traffic volume is not the only factor for safety impacts, but it is an important one. The Final EIS analyses operational and geometric risk factors for motor vehicles and non-motorized users, such as sightlines and exposure to conflict points. The Final EIS was revised to address safety implications of drivers navigating construction zones and unfamiliar routes, as well as safety factors beyond volume.

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1069	Ch 3 Transportation	3-58	3.11.2.1	Elisabeth Wooton	SDOT	The analysis is incomplete. Need to consider that a bus lane on 4th Avenue may be warranted which may impact operations for other roadway users. Also, depending on where the alternate facility for the SODO Trail is located, that may also require reallocation of travel lanes on the corridor.	SODO/CID	Additional microsimulation analysis of how additional bus volumes on 4th Avenue (due to the closure of the SODO Busway) would affect arterial operations, including trucks, has been added to Section 3.5, Affected Environment and Impacts During Operation - Arterial and Local Street Operations, of the Final EIS. The analysis also includes consideration of mitigation measures, such as freight and bus lanes, to improve transit times and the secondary effects of that on other roadway users. Mitigation would be selected in collaboration with the City of Seattle. Revisions were also made in Section 9, Freight Mobility and Access, of Appendix N.1, Transportation Technical Report, of the Final EIS.
1070	Ch 3 Transportation	3-59	3.11.2.4	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need to provide information about the assumed configuration of the rerouted SODO Trail on 4th or 6th Aves. How would provide comparable safety (two-way with signalized crossings? one-way protected pairs?). What assumptions were made about lane removals (or parking removals) on the detour route to accommodate a comparable facility? Will the relocation of the SCL infrastructure from the SODO Busway to 6th Avenue require any street width reductions or create barriers to temporary ped/bike facilities?	SODO/CID	Text has been added to Section 3.11, Construction Impacts, of the Final EIS about a potential detour location for the SODO Trail. The details of the design will continue to be determined in coordination with the City of Seattle. The Final EIS also includes additional information about the effects of utility relocation on pedestrian and bicycle facilities.
1071	Ch 3 Transportation	3-59	3.11.3.1	Elisabeth Wooton	SDOT	The analysis is incomplete or inconsistent. State Route 99 and the West Seattle Bridge are defined as regional roadways in Chapter 3.3. Impacts to these facilities should be included there. More detail about the duration of impacts and area of impacts (will it impact both the West Seattle High Bridge and the Swing Bridge? Which sections or ramps of SR 99?) would help to determine the relative impact between alternatives.	West Seattle (DUW, DEL, WSJ)	Added discussion of nearby arterial closures and potential effects on regional roadways to Chapter 3 of the Final EIS.
1072	Ch 3 Transportation	3-64	3.11.4.1	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need to provide more detail about the estimated detour volume as a result of the Genesee St closure and identify specific detour routes that can accommodate that demand. Just stating that they will be diverted to other streets in Youngstown is insufficient as these are predominantly local, residential streets with limited connectivity/capacity and potentially insufficient traffic control to handle the traffic. Detour traffic will have an impact on residents in the neighborhood. A specific detour route should be identified and mitigation should be named to ensure safe operations that minimize impacts (such as signage, parking removal, temporary intersection control, traffic calming, etc.). Also, if detour traffic is expected to use 26th Ave SW, a neighborhood greenway, additional mitigation will be required to ensure safety for people biking.	West Seattle (DUW, DEL, WSJ)	The detour volume for the Southwest Genesee Street closure (along with other key arterial roadway closures) is provided in Table 4-28 in Chapter 4, Arterial and Local Street Operations, of Appendix N.1, Transportation Technical Report, of the Final EIS. This section also includes more detailed discussion of which roadways could be affected by traffic diverted from a Southwest Genesee Street closure. If an alternative with this closure is selected, Sound Transit would work with the City of Seattle to develop a location-specific plan for this closure through the Construction Access and Traffic Management Plan process as described in Section 4.4, Potential Mitigation Measures, of this appendix as well as Section 3.11, Construction Impacts, of the Final EIS.
1073	Ch 3 Transportation	3-64	3.11.4.2	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Need to provide more detail about the anticipated detour route of for the Metro Route 50 that currently operates on Genesee St. Detour options are predominantly local, residential streets with limited connectivity/capacity. Mitigation for the reroute needs to be named to limit impacts to the neighborhood and maintain sufficient transit operations.	West Seattle (DUW, DEL, WSJ)	Comment noted. As described in Section 3.11.6, Mitigation for Construction Impacts, of the Final EIS, Sound Transit would coordinate with Metro, City of Seattle, and FTA, where appropriate, to identify and agree to bus service and associated infrastructure modifications and transit facility improvements that maintain transit service and access through construction areas.
1074	Ch 3 Transportation	3-74	3.11.6.2	Elisabeth Wooton	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Provide mitigation for the impacts related to Haul Route and Construction Traffic as identified in Section 3.11.1.1. Mitigation should include pavement restoration after construction is complete as well as any special considerations for areas sensitive areas, such as Pigeon Point, and/or streets not part of the designated freight network.	All (Systemwide)	Added discussion to the Final EIS that Sound Transit would coordinate with agencies during construction and would include pavement restoration as appropriate.
1075	Ch 3 Transportation	3-81	3.12.3.1.2	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: the impacts of the 30-50 transit routes with SODO Busway being permanently closed is huge; the 4th Ave corridor or another one would have to be totally rebuilt to accommodate exclusive lanes for transit, pavement upgrades, and upgraded signals. Additional impacts and thus mitigation should be identified.	SODO/CID	See response to comment 767.
1076	Ch 3 Transportation	3-83	3.12.3.3.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: More explanation is needed as to why the MOS for the Ballard extension is Smith Cove when the ridership will be less than if Sound Transit immediately opened up to Interbay and Ballard stations. "In 2042, daily trips range between 132,000 - 173,000. Under MOS, Ballard extension ridership would decrease to between 132,000-140,000 daily riders." To have the MOS on the north side of the Ballard is preferred to ensure that full ridership forecast is realized sooner than 2039/2042.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1077	Ch 3 Transportation	3-83		Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Explain the different types of station platforms/track alignment options for the Seattle Center station, in case extra train capacity is needed to service post-event pedestrian surges that could be pulled from a tail track immediately.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1078	Ch 3 Transportation	3-85		Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: multi-use trail station access opportunities to Smith Cove station on the east side of the BNSF railroad tracks. Please add.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1079	Ch 3 Transportation	3-89	3.12.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Describe the specific process and timeline to determine the appropriate transit corridor changes that need to occur prior to construction starting. Funding to be provided by ST as part of their mitigation package for the SODO / Downtown portion of the project.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1080	Ch 3 Transportation	3-94	figure 3-10	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Intersection LOS in numerous locations is LOS F; will need to mitigate for this and could be in the form of providing better non-motorized facilities to access the station as well as intersection modifications.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1081	Ch 3 Transportation	3-97	3.13.3.1.3	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Please provide reasoning why the City Right-of-Way needs to be used as part of the station entrance for the Denny Station. And identify the process of ownership transfer and what public benefit mitigation will be included for the use of the ROW. Closure of 9th Ave in DT-1 could be rebuilt as public ROW differently than how it operates now. Need more information.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1082	Ch 3 Transportation	3-97	3.13.3.1.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Business access is very important along this corridor as existing on-street parking may be removed one day to ensure bus / freight-only lanes. Additional work will have to be done to see how to preserve business access within the design of the columns and during construction of the columns. Recommend Sound Transit allocate funding for small-business sustainability during construction.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1083	Ch 3 Transportation	3-97	3.13.3.1.5	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: unsure where the proposed bridge to access the station would land. Mitigation idea is to install a ped/bike bridge across the BNSF RR tracks to ensure non-motorized access from the Magnolia neighborhood. Non-motorized mitigation is also needed for Queen Anne access - PBL on the east side of W Dravus St to future Neighborhood Greenway. Non-motorized mitigation is needed to expand ped/bike facilities on existing bridge over 15th Ave W at W Dravus St.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1084	Ch 3 Transportation	3-99	3.13.3.3.3	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. If higher volumes of people walking and biking are forecast, Sound Transit should mitigate the 5th Ave midblock crossing to a raised intersection to ensure the most vulnerable travelers are made more visible and driver's slower.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1085	Ch 3 Transportation	3-99	3.13.3.3.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Ensure all signalized intersections (whether LOS F or not) are upgraded with LPI and APS for better accessibility, and enforcement improvements - repaint stop bars, add "no not block box" cameras to ensure all technology is deployed to minimize delay, ensure ADA curb ramps at all intersection within 0.5-mile. Mitigation for this could be in the form of providing better non-motorized facilities to access the station as well as intersection modifications.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1086	Ch 3 Transportation	3-99	3.13.3.3.5	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Mitigation needs to be identified for the LOS F at Elliott Ave W/W Galer St Flyover. Could be in the form of a new access bridge.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1087	Ch 3 Transportation	3-99	3.13.3.3.5	Sara Zora	SDOT	The analysis is incomplete. Missing are: Would like the comparison of analysis to have to MOS at Smith Cove Station vs at Interbay Station for the impacts identified with the MOS proposed for Smith Cove.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1088	Ch 3 Transportation	3-101	3.13.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Please document the process and timeline for such a process to "continue to work with the COS and FTA as Ballard Link Extension project design progress to minimize project-related intersection delays." All mitigation measures have to be included in each Master Use Permit decision, so this process would have to occur prior to MUP drafting by the City.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1089	Ch 3 Transportation	3-102	Table 3-24	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Mitigation for 5th Ave S midblock could be a raised intersection; mitigation for 4th Ave /loss of SODO Busway could be signal optimization channelization changes or congestion pricing, pavement upgrades, transit re-routing.	All (Systemwide)	Added discussion of mitigation for long-term impacts to SODO Busway to the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1090	Ch 3 Transportation	3-102	3.13.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Please be aware that there is proportional share mitigation and there is also mitigation that is fully borne by the Sound Transit project. Each mitigation will have to be determined if proportional share or full share.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1091	Ch 3 Transportation	3-102	3.14	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Please use a two-block radius of the stations for the on-street parking analysis as that existing condition will be useful in better aligning curb space allocation at the stations for all the various uses.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1092	Ch 3 Transportation	3-105	3.14.3.3	Elisabeth Wooton	SDOT	The information necessary to identify impacts and compare alternatives is missing. Table 3-26 should include information about the number of commercial load zones and ADA parking spaces that would be displaced and will need to be considered for relocation. There may be differences in impacts depending on alternatives that would be helpful information for selecting a preferred alternative. At the very least, provide a reference the freight chapter which discussed loading zones.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1093	Ch 3 Transportation	3-106	3.15.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: The Interbay station does not have a sidewalks or other pedestrian or bicycle infrastructure. This should be called out specifically. Mitigation is to rebuild all the streets via Streets Illustrated standards that Sound Transit touches to ensure walk and bike access to this station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1094	Ch 3 Transportation	3-108	3.15.2	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: an updated understanding of necessary bike access to stations. The Bike Master Plan was developed prior to any knowledge of ST3 and bike access has to be re-thought. It is not acceptable to use the 2014 BMP and assume that the bike facilities make sense for these new destinations. Additional analysis has to be completed to determine bike access to each station area.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1095	Ch 3 Transportation	3-108	3.15.3	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Sound Transit can fund and install a catalyst project in the BMP that calls for a new multi-use trail on the east side of the BNSF RR tracks and west of 15th Ave W. This pathway can be along the elevated structure columns. This will be an important part of the project to promote bike access to the Interbay Station, especially if no Smith Cove station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1096	Ch 3 Transportation	3-108	3.15.3	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. People riding bikes have no safe access from Magnolia to Interbay station to mitigation this, Sound Transit can install a ped/bike bridge across the BNSF RR track to the station. From Queen Anne, the extended planting strip on the south side of Dravus St could be reallocated for non-motorized use. The Dravus St bridge over 15th Ave W would also need to have upgraded to standard sized pedestrian and bicycle facilities to access the Interbay Station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1097	Ch 3 Transportation	3-108	3.15.3.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Again the bike network has to be updated to ensure access to these new stations that were not a part of the 2014 BMP. Sound Transit will need to install bike access projects that are not in the 2014 BMP, but as a result of SDOT access discussions.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1098	Ch 3 Transportation	3-108	3.15.3.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Sound Transit will need to upgrade and increase their bike parking spaces. As more e-bikes are bought, users will not be able to take bikes on the train and people will need a secure place to lock it know that it will be there when they return and can ride home up the hills of QA or Magnolia. All the new bike parking at Northgate and other recent stations will not be adequate for the amount of people biking that will need to occur in the future for both access and climate change ideals.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1099	Ch 3 Transportation	3-109	3.15.3.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Expand the analysis to include two blocks away from the station access for ped improvements. Sound Transit can voluntarily provide additional pedestrian facility upgrades.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1100	Ch 3 Transportation	3-109	3.15.3.1	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. The City of Seattle requests that Sound Transit use funding from the non-motorized access allowance for Seattle projects.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1101	Ch 3 Transportation	3-110	3.15.3.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Analysis and mitigation to envision a different Seattle Center station area and more holistic roadway changes that could occur with a station at Seattle Center and Republican St. If Sound Transit was planning on also using City ROW for sidewalks or to achieve required widths, then a raised festival street (or other type of pedestrian and bike friendly design slow/low vehicles) should be implemented.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1102	Ch 3 Transportation	3-111	3.15.3.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Yes to the mitigation idea of implementing the "catalyst" bike trail project in the 2021 BMP. The alignment would be identical to the connection that is desired and to allow people riding bikes to be separate and away from 15th Ave W.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1103	Ch 3 Transportation	3-112	3.15.3.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: new access is needed to be explored and a new ped/bike bridge across the BNSF RR tracks should be analyzed to promote non-motorized travel to access the station or expansion of the existing Dravus St RR bridge on one side of the structure to ensure safe and predictable space for people walking and biking to get across the RR tracks. Current sidewalk widths are minimal. There needs to be an AAA bike facility to access each station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1104	Ch 3 Transportation	3-112	3.15.3.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. What is the process for ensuring walking and biking access mitigation are within the MUP decision on time. And when is the anticipated MUP part of the process to occur?	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1105	Ch 3 Transportation	3-112	3.15.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Sound Transit needs to work with City of Seattle to establish AAA bike facilities to access the stations. As we have commented in the ADEIS, Sound Transit should not be using the 2014 Bicycle Master Plan to assume that the recommendations in that plan would bring people biking to the station as these stations were not part of the analysis as ST3 stations / destinations were unknown. Much more work needs to be done to ensure mitigation of ensure vulnerable travelers have safe and protected spaces to be.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1106	Ch 3 Transportation	3-116	3.16.3.5	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Please explain if an "outside of roadway guideway" can be used to have an underneath or adjacent multi-use trail along the same route. This would be particularly important to ensure bicycle connectivity and access to the Smith Cove and Interbay Station and connect future land uses that have new riders.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1107	Ch 3 Transportation	3-116	3.16.3.6	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. This is a false statement - there are very few pedestrian or bicycle facilities in the Interbay Station area - and there would be huge impacts to getting people walking and biking to the station from Magnolia or Queen Anne. There is no safe and accessible way for people riding bikes to access the Station. Sound Transit will have to provide an expansion of the existing Dravus St bridge for people walking and biking or a new ped/bike bridge over the BNSF RR tracks to allow for non-motorized access from Magnolia.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1108	Ch 3 Transportation	3-120	3.17.3.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing are: Provide an understanding of the third-party funding needed for a tunnel, when there are no impacts that need to be mitigated from a navigational perspective and maritime business perspective, and it costs the same as the elevated options. Such a tunnel would avoid impacts, as stated in the DEIS, and should be given more considerable thought as a preferred alternative.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1109	Ch 3 Transportation	3-123	3.18.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Because the Interbay station access has not been accurately analyzed as there are major gaps in both the pedestrian and bicycle facilities to access the station from either Magnolia or Queen Anne. Sound Transit will have to access BNSF permits to install a ped/bike bridge or widening of the existing Dravus St bridge.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1110	Ch 3 Transportation	3-128	3.18.1.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Because people walking, biking, and rolling are our most vulnerable travelers, it would be beneficial to include any road/facility closures of 6 months and over (rather than 1 year closures as the threshold) to ensure adverse construction impacts are mitigated.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1111	Ch 3 Transportation	3-129	3.19.1.7	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Construction impacts along major freight corridors need to be identified and mitigated. Good to focus on station area construction and access/curb space, but there is additional freight mobility that needs to be analyzed.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1112	Ch 3 Transportation	3-130	3.19.2.1	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. It is not clear how all the Metro buses that use SODO busway would be relocated to 4th Ave or 6th Ave (60-80 buses) and the analysis states that it "would not substantially affect general traffic conditions on these roadways." I do not understand how this would be possible to not have a negative impact or mitigable solution for all the buses that need efficient speed and reliability while Sound Transit is in construction.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1113	Ch 3 Transportation	3-131	3.19.2.4	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. With both the SODO busway and SODO trail closed for a number of years, both transit and people walking/riding bikes may not be able to be accommodated on 4th and 6th Ave's without a major redesign of both streets. Mitigation needs to be identified.	SODO/CID	Additional information about a potential detour location for the SODO Trail has been added to Section 3.11, Construction Impacts, of the Final EIS. The details of the design will continue to be determined in coordination with the City of Seattle. Specific mitigation for the permanent closure of the SODO Busway would be determined through coordination between Sound Transit, City of Seattle, and Metro. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1114	Ch 3 Transportation	3-133	3.19.3.1	Wes Ducey	SDOT	The information necessary to identify impacts and compare alternatives is missing. Provide more information to compare the construction impacts to the arterial and local street operations in the CID segment. More specifically, when option CID-1a & CID-1b note the need to divert large amounts of traffic to parallel streets, there needs to be more information provided to compare these impacts to those of CID-2a & CID-2b. With the additional information, there should also be a process of discussing the Maintenance of Traffic strategies proposed with SDOT to see if there are any unconsidered opportunities to reduce construction impacts, particularly for options CID-1a & CID-1b.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1115	Ch 3 Transportation	3-136	Table 3-30	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. All of the 4th Ave street closures have enormous impacts to transit service and AAA bike network for the 5th Ave preferred alternative. Madison St closure will impact BRT routing. Pine St will impact transit and bike facilities. Republican St closure will have impacts for Seattle Center tenants. Westlake and Harrison closure will impact the Streetcar. Construction mitigation needs to be determined prior to the Master Use Permit decision. Mitigation should include travel behavior change campaigns, led by Sound Transit, to ensure people traveling into the City will not do so by private vehicle.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1116	Ch 3 Transportation	3-136	Table 3-30	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. For the streets with a number of blocks that have long partial or full closures should be analyzed for how to be channelized in the future and ensure becomes part of Sound Transit mitigation - SIP design process. Republican St - post construction could and should look very different than it looks now. Mitigation is for Sound Transit to perform an assessment of all the street closures for the number of blocks, extent of closure (time), and severity (partial vs full) in a table. This would allow us to better assess the "fairness" or "equity" of mitigation during construction and post-construction. (table for all of the segments)	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1117	Ch 3 Transportation	3-140	3.19.4.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Mitigation need to be identified for the 7th Ave PBL, Pine St, 4th Ave PBL, and Thomas St multi-use trail closures.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1118	Ch 3 Transportation	3-141	3.19.4.6	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. An alternative route from Harrison St for trucks is not John St and should be removed from this section. Denny Way is a more appropriate street for large trucks to traverse. It will be difficult relocate up to 21 load zones that businesses and people rely on, so thoughts on curb space reallocation should be discussed with SDOT and adjacent businesses/properties to determine best solutions.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1119	Ch 3 Transportation	3-141	3.19.4.6	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. It was identified that drivers would likely divert to Gilman Dr W and W Olympic Pl or to W Nickerson St - from Elliott Ave W - and these three corridors should be analyzed to determine if any mitigation is needed, such as safety and pedestrian crossing improvements if more drivers will be using these streets.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1120	Ch 3 Transportation	3-145	Table 3-32	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. A full closure of 14th Ave NW for numerous blocks for 3 years is a big impact for that neighborhood. Mitigation and detour routes need to be determined. Post-construction, Sound Transit should install the Park Blvd. design for the blocks they closed during construction. Need to promote bicycle and pedestrian access to the Ballard station.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1121	Ch 3 Transportation	3-145	Table 3-32	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. From table 3-32, it still appears that the tunnel option has fewer impacts and definitely less adverse impacts than any of the bridge options. Please explain why the tunnel needs 3rd-party funding to move that alternative forward? Preferred tunnel is a great option.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1122	Ch 3 Transportation	3-147	3.19.6.4	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. It is rare that we allow even short-term multi-use trail closures. Sound Transit will have to find a way to mitigate and detour the Ship Canal trail (example at 3rd Ave W and Ship Canal Trail currently in detour route configuration as diverting people riding bikes to use Nickerson St was not acceptable. Another example is along the BGT at Fred Meyer - there is a detour for people waling and biking, which does not meet minimum standards, but keeps travelers along the same route.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1123	Ch 3 Transportation	3-151	3.19.7.2	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Concern that the "Construction Access and Traffic Management Plan" is a document that will only be mentioned in the FEIS with no details as to what mitigation may look like. When is this plan expected to be finalized? And how nimble is it allowed to be as a mitigation of the station MUP decisions vs a list of required interventions via the MUP?	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1124	Ch 3 Transportation	3-151	3.19.7.2	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Add bullets to the "potential measures to minimize construction impacts" that says "install pedestrian and bicycle facilities where construction adversely impacts existing facilities or network connectivity."	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1125	Appendix J - Conceptual Design Drawings	L50-14	CYX105	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. The elevated diagram should have a smaller footprint. Perhaps the design should match that of the Lander St bridge that SDOT installed recently. Unclear why there is a left turn lane, unless that is supposed to represent an intersection off the elevated structure?	SODO/CID	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
1126	Appendix J - Conceptual Design Drawings	L50-15	CYX107	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. It has been stated in the document that 6th Ave S maybe need to hold transit and people riding bikes, but the proposed cross section does not show this. There should be Protected Bike Lanes and Transit lanes on 6th Ave S if this corridor is to be used as both during- and post-construction mitigation. And of course, the pedestrian realm would have to be upgraded if it was now used for transit with transit stops.	SODO/CID	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings.
1127	Appendix J - Conceptual Design Drawings	WO1-16	ASP700	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Bike storage should be expanded to assume a very high future demand. Please show the analysis about number of bike spaces needed per station.	All (Systemwide)	Each station for the West Seattle Link Extension would have a dedicated bicycle storage area. The primary criteria for siting bike storage areas is that they need to be located close to the nearest planned or existing bike path for the convenience of the users. Short-term bike storage (bike racks) can be located within the public right-of-way or within the station plaza. Long-term bike storage (bike rooms or lockers) would have weather protection and would be adjoining or located in the station entrance. Some stations have bicycle storage at each station entrance.
1128	Appendix J - Conceptual Design Drawings	L50-50	CYX103	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. The columns on SW Genesee St remove the south side sidewalk. The north side sidewalk needs to be upgraded to a standard concrete sidewalk and with a width wider than standard 6-foot pedestrian clear zone since it will need to accommodate all people walking for mitigation of the loss of existing sidewalk.	West Seattle (DUW, DEL, WSJ)	Alternatives DEL-1a and DEL-3 would remove the sidewalk on the south side of Southwest Genesee Street. The proposed design shows the sidewalk on the north side of the street widened relative to the existing sidewalk, and crosswalks would be provided at Southwest Avalon Way and 26th Avenue Southwest to access destinations on the south side of the street at these locations. A crosswalk would also be provided for any bus stops on the south side of the road. Other alternatives would maintain the sidewalk on the south side of the road. See Chapters 3, Transit, and 6, Non-motorized Facilities, of Appendix N.1, Transportation Technical Report, of the Final EIS for more information.
1129	Appendix J - Conceptual Design Drawings	L50-82	CYX101	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Explain how the proposed Fauntleroy Way SW cross section does or does not match the Fauntleroy green Blvd. that SDOT has designed and put on hold until final station locations were determined. SDOT design included protected bike lanes; this diagram does not. Explain why not.	West Seattle (DUW, DEL, WSJ)	The design drawings provided in Appendix J, Conceptual Design Drawings, of the Final EIS are intended to support impact analyses described in Chapter 3, Transportation Environment and Consequences, and Chapter 4, Affected Environment and Environmental Consequences, of the Final EIS. Impacts are not identified on these conceptual design drawings. The project as listed as an assumed project in Attachment N.1A, Transportation Technical Analysis Methodology, of Appendix N.1, Transportation Technical Report. Sound Transit would coordinate with the City on roadway design if this alternative were selected as the project to be built.
1130	Appendix J - Conceptual Design Drawings	L50-83	CYX102	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Again, explain the cross section proposed and how it does not meet the multi-modal expectations that SDOT has for Fauntleroy Way SW. This cross section is unacceptable.	West Seattle (DUW, DEL, WSJ)	See response to comment 1129.
1131	Appendix J - Conceptual Design Drawings	L50-130	CYX114	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. It has been stated in the document that 4th Ave S maybe need to hold transit and people riding bikes, but the proposed cross section does not show this. There is no future transit lane even though transit will still need to have some routes on 4th Ave S post-Link opening? There should be Protected Bike Lanes and Transit lanes on 4th Ave S if this corridor is to be used as both during- and post-construction mitigation. Appears that the station plaza in in the City ROW, so which permit process is Sound Transit going to pursue - a street vacation?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1132	Appendix J - Conceptual Design Drawings	B-02-167	Asx301	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Propose customer user experience mitigation while ascending down below to the deep Downtown stations. Examples to consider: lighting, CPTED design, interactive art, planted walls - alive and green, etc.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1133	Appendix J - Conceptual Design Drawings	B-11-193	ASP100	Sara Zora	SDOT	Mitigation measure(s) for identified impacts are missing from the DEIS. Republican St post-construction needs to be designed to be a completely different-feeling and experience street. Should be included as mitigation to increase the user experience to access Seattle Center from either station exit.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1134	Appendix J - Conceptual Design Drawings	L50-216	CYX109	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. It is unclear why both sections of Elliott Ave W proposed cross sections have different sidewalk designs. The sidewalk with a planting strip and trees is the standard - not a widen sidewalk on a principal arterial. Need to provide a buffer for people walking.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1135	Appendix J - Conceptual Design Drawings	B13-218	ASP100	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. The bike storage location needs to be relocated to be closer to where people riding bikes will access the station from (the west side multi-use trail).	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1136	Appendix J - Conceptual Design Drawings	L50-240	CYX115	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. The proposed 14th Ave NW roadway design does not include bicycle facilities for access to the station. This design will not be accepted. Can the design incorporate the Park/Road blocks on 14th Ave NW that was the vision of the future via neighbors. Please accommodate a design that creates a safe and predictable multi-modal street. North of NW 59th St is the Gemenskap Park - and the roadway configuration that is preferred for the extent of the more residential-focused portion of 14th Ave NW. ST needs to work on how the design of 14th Ave NW can still support the Park between NW 59th St to NW 61st St and extend that park-corridor as the light rail is built, if the preferred alternative or option b is selected. Shifting the NB travel lane is it, and the area under the guideway should match the park design that is already in place.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1137	Appendix J - Conceptual Design Drawings	L50-241	CYX116	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. 15th Ave NW is already a horrible environment to be a pedestrian. This project should make improvements that better the walking environment, not worsen it. The proposed guideway column adjacent to the sidewalk is not pleasant and the other sidewalk should be upgraded with a planting strip as people will be accessing the station from both sides of 15th Ave NW.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1138	Appendix J - Conceptual Design Drawings	B15-242	ASP100	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Find an off-street location for bus layover needs. Move the on-street bus layover to off-street. Will design trigger Dravus St RR Bridge upgrades as the elevated structure columns looks very close. If so, will need to be upgraded to meet SDOT standards for sidewalk and bike access.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1139	Appendix J - Conceptual Design Drawings	B17-250	ASP100	Sara Zora	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Explain the need for a ped/bike bridge across 14th Ave NW. 14th Ave NW should still be a fairly light volume access street for the station with a multi-modal focus and safe pedestrian crossings. Proposed design for 14th Ave NW needs to be changed and not the 4-lane cross section for cars (travel or storage) as shown in the diagrams.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1140	Appendix G - Environmental Justice	Page 5-3 to 5-28 and page 5-31 to 5-66	Table 5-2, Table 5-4	Lizzie Moll	SDOT	The analysis is incomplete. Several significant impacts have not been identified. Missing is: "Best Management Practices and Mitigation" reflecting the findings from the "Build Alternative Impacts" and "Impacts on Minority and Low-income Populations."		Table 5-2 summarizes impacts and mitigation discussed in Chapters 3 through 5 of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1141	Appendix G - Environmental Justice	Page 5-3 to 5-28 and page 5-31 to 5-66	Table 5-2, Table 5-4	Lizzie Moll	SDOT	The information necessary to identify impacts and compare alternatives is missing. Missing are: Specific impacts, benefits, or best management practices and mitigation that are associated with each build alternative for columns 3, 4, and 5 (as expressed in column 2 "Build Alternatives Impacts"). For one example on page 5-33, not all alternatives would impact Metro's Ryerson Bus Base in the same way. Note which alternatives impact the Base or note that the impact or mitigation is common to all segments.		This table is intended to summarize key impacts and mitigation measures, as described in the introduction to Chapter 5 of Appendix G, Environmental Justice. The Mitigation column for Transportation-SODO Segment in Table 5-2 has been updated to address mitigation for access to the Ryerson Bus Base for all alternatives per the updated transit analysis in Appendix N.1, Transportation Technical Report.
1142	Appendix J - Conceptual Design Drawings	133-135, 136-138		Lizzie Moll	SDOT	The analysis is incomplete. Study alternative station entrance locations for the western entrance on 4th Ave S. The constrained sidewalk with expected high pedestrian volumes from WSBL station and Sounder station will create pedestrian congestion, especially during major events and when Sounder Trains arrive. Study shifting entrances north to straddle S Jackson. There is potentially more street capacity because 4th Ave is currently one way north of S Jackson and potential for less conflation with pedestrians using the Weller Street bridge. There would still be an opportunity for Sounder integration at the north Sounder entrance		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1143	Executive Summary	13	ES.3.1	Dorothy Kim	SPD	DEL-3/4 Elevated station in middle of Delridge Wy SW. Traffic and pedestrian concerns because of high use roadway, proximity to playground and entrance to West Seattle Bridge.	West Seattle (DUW, DEL, WSJ)	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.5, Affected Environment and Impacts During Operation - Arterial and Local Street Operations, and Section 3.7, Affected Environment and Impacts During Operation - Non-motorized Facilities, of the Final EIS for more information on impacts related to traffic and pedestrians.
1144	Executive Summary	17	ES.3.1	Dorothy Kim	SPD	For the Delridge station- from a CPTED perspective, DEL-2a/b is preferred for visibility to the station from the street and surrounding homes/businesses. Crime in this area is notable, and this should be taken into consideration	West Seattle (DUW, DEL, WSJ)	Seattle Police Department's preference is noted. Please see response to CC4.14a in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1145	Executive Summary	19	ES.3.1	Dorothy Kim	SPD	For the Junction stations- from a CPTED perspective, WSJ-2 is preferred for visibility and access to the station. An underground station is not recommended for this location, due to crime/safety risks.	West Seattle (DUW, DEL, WSJ)	Seattle Police Department's preference is noted. Please see response to CC4.14a in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1146	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	This section states that additional police and security staff will be needed for station response. I would recommend utilizing a metric to determine the number of additional personnel that will be necessary to provide adequate response times.	All (Systemwide)	Information has been added to Section 4.14.4.1.2 of the Final EIS to explain that additional Sound Transit transit police will be needed at the station.
1147	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	This section states that police could have difficulty accessing platforms. This has already proved to be an issue at other stations, such as Northgate. I would recommend that emergency personnel be given 24-hour access to platforms, via proxy card or other means.	All (Systemwide)	Police would have access to stations/platforms during normal operating hours and can work with Sound Transit's Security Operations Center to gain access if necessary during non-revenue hours. See response to comment 1149.
1148	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	Given that CCTV cameras will be installed at these stations, there should be a point of contact for patrol officers to access footage after incidents occur. This access would allow officers to identify and apprehend suspect more efficiently.	Interbay-Ballard	Sound Transit safety and security staff will coordinate with Seattle Police Department during final design and prior to opening, regarding security plans and protocols.
1149	Public Services, Safety and Security	194	4.2.14	Ryan Beck	SPD	This section states that police response will not be delayed, however, the removal of parking spaces and increased population density could mean that officers may have difficulty parking vehicles when responding to incidents. I would recommend the emergency vehicle parking be allotted each station.	All (Systemwide)	Information has been added to Section 4.14.4.1.2 of the Final EIS to explain that emergency access is provided at all stations. Exclusive parking for Seattle Police Department and Seattle Fire Department is not provided at stations.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1150	Public Services, Safety and Security	190	4.2.14	Ryan Beck	SPD	Officers have encountered situations where individuals have walked onto tracks. Clear WARNING signage should be posted near rail track access points.	All (Systemwide)	Comment noted, detail not necessary for Final EIS.
1151	Public Services, Safety and Security	190	4.2.14	Ryan Beck	SPD	Officers have encountered incidents where power to the light rail tracks needed to be cut for public safety reasons. I would recommend a clear protocol be put in place to address this issue safely and with minimal service disruption.	All (Systemwide)	Comment noted, detail not necessary for Final EIS.
1152	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	CPTED-The recommend that lighting should be extended to nearby parking areas in an effort to minimize criminal activity for individuals accessing their vehicles near light rail stations.	Interbay-Ballard	Stations do not have parking associated with them. Sound Transit is not responsible for lighting on nearby private property. Any lighting outside the stations to access parking areas would be within public right-of-way and coordinated with the Seattle Department of Transportation as appropriate.
1153	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	Sound Transit has stated that they will coordinate emergency response with local law enforcement. I would suggest that a specific rail station response training be developed specifically for law enforcement and fire personnel.	All (Systemwide)	Comment noted, detail not necessary for Final EIS.
1154	Ch 2 Alternatives Considered	68	2.1.2	Ryan Beck	SPD	Constructing the Ballard Station at the 15th AVE NW location could negatively impact the neighborhood during the construction and operational phases. Because 15 AVE NW is the primary arterial through the neighborhood, long term construction could negatively impact both traffic and quality of life for residents and businesses. The removal of sidewalks could pose hazards for pedestrians during the construction phase.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1155	Ch 2 Alternatives Considered	68	2.1.2	Ryan Beck	SPD	A light rail station at 15th AVE NW would permanently impede the flow of traffic. Given that the Ballard station is expected to have 13,000 daily boardings, high vehicle traffic from 15th AVE NW could pose a hazard for pedestrians.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1156	Ch 2 Alternatives Considered	69	2.1.2	Ryan Beck	SPD	From a CPTED perspective, building the station at the 14th AVE NW location would expand foot traffic in the neighborhood, and could have a crime reduction impact.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1157	Ch 3 Transportation	104	3.14.3.2	Ryan Beck	SPD	All the station alternatives call for the permanent removal of parking spaces in the Ballard neighborhood. This change could result in residents parking in areas that are further out, more secluded, and poorly lit. This could put them at risk of becoming victims to criminal activity. I would recommend that lighting and sidewalk conditions be improved in the general vicinity.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1158	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	The construction sites(s) and staging areas will potentially attract theft and other criminal activity. Will there be a specific security plan/protocol for these sites during the construction phase?	Interbay-Ballard	Please see Section 4.14, Public Services, Safety, and Security, of the Final EIS for information on security at stations and construction sites.
1159	Public Services, Safety and Security	192	4.2.14	Ryan Beck	SPD	The Ballard neighborhood has experienced a rise in crime and calls for police service. To reduce opportunities for criminal activity to take place at the rail station, the following should be considered in the station design process: Restricting access to secluded areas, providing open lines of sight from street level, limiting areas for groups to congregate, providing multiple points of egress for passengers, lighting that extends beyond the station footprint, parking for police vehicles.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1160	Acquisitions, Displacements, and Relocations	1	4.21	Ryan Beck	SPD	Residential and commercial units that were acquired for the project may be a potential destination for squatters before they are demolished. This could lead to increased criminal activity in the neighborhood. I would recommend that a plan be implemented to determine which agency will be responsible for ensuring routine security checks of the properties and the frequency with which this will occur.	All (Systemwide)	Comment noted. Sound Transit's Real Property group secures purchased properties as soon as possible and expedites the demolition of these properties and secures them to prevent or limit the types of instances mentioned in this comment.
1161	Ch 3 Transportation	144	3.19.6.2	Ryan Beck	SPD	The deactivation of Metro lines along NW Market St. will likely increase pedestrian traffic, which could cause additional safety hazards. Residents with mobility difficulties will be the most severely impacted.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1162	Ch 3 Transportation	185	3.12.3.3.6	Ryan Beck	SPD	The Ballard station is being developed to offer passenger drop-off/pick-up accessibility. I would recommend that an area be designated to this function to minimize disruptions of traffic-flow.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1163	Ch 3 Transportation	106	3.14.3.2	Ryan Beck	SPD	To reduce "hide-and-ride" activity, metered parking spaces have been proposed. I would recommend that zone parking be considered to accommodate residents and reduce conflict over parking spaces.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1164	Ch 2 Alternatives Considered	Ch 2 Alternatives Considered	Pages 2-8/Line 30	Sage Farwell	SPD	In addition to road/sidewalk improvements, Sound Transit's partnership with local agencies (City of Seattle) should extend to lighting improvements to walkways and sidewalks approaching the SODO station as riders transferring from other forms of transit (busses) will be approaching the SODO station from streets other than the SODO busway (E-3) as they are currently.		This level of detail is beyond conceptual design; lighting will be a part of final design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1165	Ch 2 Alternatives Considered	Ch 2 Alternatives Considered	Pages 2-91/Line 20	Sage Farwell	SPD	Round the clock security of Staging Area(s) in the SODO neighborhood would need to be coordinated by Sound Transit through private, SPD and KCSO resources to ensure mitigation of theft and vandalism. Construction equipment/supplies and raw material theft in the SODO neighborhood is very prevalent and would be exacerbated by the addition of these Staging Area(s).		Comment noted. Please see Section 4.14, Public Services, Safety, and Security, of the Final EIS for information on security at stations and construction sites.
1166	Executive Summary	Executive Summary	Slide 19	Sage Farwell	SPD	The proposed S. Lander St. overpass in the Preferred At-Grade Alternative is a positive traffic mitigator (upon completion) as S. Lander St is a major East-West thoroughfare that can be identified as a primary passage for emergency vehicles.		Comment noted.
1167	Executive Summary	Executive Summary	Slide 20	Sage Farwell	SPD	Closing the SODO Busway to transit busses during and after construction will significantly increase traffic congestion on adjacent streets (4th Av S/6th Av S) due to displaced transit busses. This will be exacerbated during rush hour and will also affect the flow of the on/off-ramp to I-5 at S. Spokane St as transit will no longer be in/egressing from a single roadway but from multiple roadways.		Please see Section 3.11.2.1, Arterial and Local Street Operations, of the Final EIS, where the potential traffic impacts of shifting buses from the SODO Busway were addressed. The analysis found the busway's closure would have minimal effects on general purpose operations.
1168	Public Services, Safety and Security	Public Services, Safety and Security	Page 192/Line 1	Sage Farwell	SPD	During construction, police vehicles WILL experience increased response times due to construction along the SODO Busway effecting East/West traffic as well as increased traffic congestion from transit busses being re-routed onto 4th Av S and 6th Ave S from the SODO (E-3) busway during and after construction.		Section 4.14.5.1, Impacts Common to All Build Alternatives, of the Final EIS describes temporary impacts from construction period road closures to police and fire department response times.
1169	Executive Summary	ES-12		S. O'Donnell	SPD	Would the Public Safety resources (SPD/SFD/POS) responsible for emergency response to marine issues be affected by bridge construction closures?		See Section 3.11, Construction Impacts, of the Final EIS for more information on coordination that would occur for navigation channel closures during construction of the Duwamish Waterway crossing.

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1170	Executive Summary	ES-29		S. O'Donnell	SPD	There is only a "general terms" discussion of traffic impacts and projected efforts to mitigate the traffic impacts and emergency vehicle access for each segment. An example is the closure for 6-10 years of 4th Ave. So. from approx. So. Royal Brougham to So. Main St., This is a major N/S arterial into and from downtown), or another is the related overflow traffic to the nearest freeway access, (James St. Cherry St., 4th. So. and approx. 1000 Block). There are only limited N/S corridors in this geographically/infrastructure limited Pioneer Square/International District area and more specific traffic mitigation and reroute efforts should be discussed.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1171	Noise and Vibration	101	4.2.7	S. O'Donnell	SPD	Police officers are frequently dispatched to noise complaints resulting from construction. In order to utilize personnel resources as efficiently and effectively as possible, I recommend these complaints be routed directly to SDCI. A construction Point of Contact should be identified for the (CSCC) City of Seattle Communications Center (911) and SPD.		Comment noted. As described in Section 4.3.7, Mitigation Measures, in the Final EIS, Sound Transit could provide a 24-hour construction telephone hotline for community members to report issues to Sound Transit community engagement staff, who would work with the construction team to resolve issues and respond to the community member.
1172		4.2.14-10	4.2.14.4.1	S. O'Donnell	SPD	(Police) Sound Transit would coordinate with the City of Seattle, King County and Washington State Patrol to provide adequate police services.		No change needed. Text is appropriate as is (states that Sound Transit would coordinate with public service providers).
1173		4.2.14-10	4.2.14.4.1	S. O'Donnell	SPD	(Per current Inter-Police Department Agreement/Memos) Seattle Police Department would normally respond to assist/support Sound Transit Police or King County Transit Police at potential emergencies at the construction sites. Clarity is needed for this responsibility as it relates to considerable additional staffing.		Sound Transit will coordinate with the City regarding emergency response planning for construction as the project advances.
1174		4.3.14-14	4.3.14.4.1	S. O'Donnell	SPD	(Police) Sound Transit would coordinate with the City of Seattle, King County and Washington State Patrol to provide adequate police services.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1175		4.3.14-14	4.3.14.4.1	S. O'Donnell	SPD	(Per current Inter-Police Department Agreement/Memos) Seattle Police Department would respond to assist/support the Sound Transit Police or King County Transit Police at potential emergencies at the construction sites. Clarity is needed for this responsibility as it relates to considerable additional staffing.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1176		4.3.14-16	4.3.14.4.6	S. O'Donnell	SPD	Seattle Police Harbor Patrol has some joint initial fire fighting responsibility.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1177		4.23	4.23	S. O'Donnell	SPD	2042 Build Alternatives (Para 3) Although the Stadium Station is north of the SODO Segment under all Build Alternatives, this station would be served by the West Seattle Link Extension. Ridership at this station is relatively low today and no noticeable change in vehicle trips is expected during the peak hour under any of the Build Alternatives compared to the No Build Alternative. Traffic operations around the station are therefore not expected to be impacted under any of the Build Alternatives. Consideration of Stadium, (Lumen and T-Mobile) special events and significant crowds related to them, - should be included in this statement relevant to the "Stadium Station."		The text regarding ridership at the Stadium Station has been revised to note there are ridership surges before and after large events at nearby venues. The conclusion regarding traffic operations effects of the Build Alternatives remains the same.
1178	Executive Summary		Slide 33	Jennifer Danner	SPD	For the Junction stations- from a CPTED perspective, WSJ-2 is preferred for visibility and access to the station. An underground station is not recommended for this location, due to crime/safety risks.		Seattle Police Department's preference for Alternative WSJ-2 is noted.
1179	Economics	47	12 through 16	Jennifer Danner	SPD	This section discusses how construction might adversely impact the businesses in the area, and lists potential solutions. This section does not mention the impact construction has on crime, and the potential mitigating options for this. It is important to consider crime prevention, especially associated with construction zones		Please see Section 4.14, Public Services, Safety, and Security, of the Final EIS for information on security at stations and construction sites.
1180	Social Resources, Community Facilities, and Neighborhoods	53	13 through 32	Jennifer Danner	SPD	It is important to note that the West Seattle Junction area has a Business Block Watch (in collaboration with the Seattle PD's SW Precinct), which could be impacted by the future light rail, and should be consulted/included in outreach. The Business Block Watch is a great place to get feedback and push out information.		Thank you. Comment noted.
1181	Social Resources, Community Facilities, and Neighborhoods	58	9 & 10	Jennifer Danner	SPD	"WSBLE is not anticipated to have safety and security impacts" - disagree with this statement. I believe the new light rail stations will have an immense impact on safety and security in the neighborhoods in which they will reside		Discussion of safety and security is provided in Section 4.14, Public Services, Safety, and Security, of the Final EIS. This is the basis for the conclusion in Section 4.4, Social Resources, Community Facilities, and Neighborhoods.
1182	Public Services, Safety and Security	183	35 through 37	Jennifer Danner	SPD	"Police could have difficulty responding to calls at elevated or tunneled sections of guideway or at stations not easily accessible from the existing roadway network" - Officer access to the terminal should be considered, as well as Officer parking. Perhaps each station could have designated SPD parking spots?		See response to comment 1149 related to emergency response access at stations.
1183	Public Services, Safety and Security	183	40 through 41	Jennifer Danner	SPD	"All build alternatives would require additional police..." - staffing at the SW Precinct needs to be considered.		Text has been revised to clarify: "All Build Alternatives would require additional Sound Transit transit police and security staff..."
1184	Public Services, Safety and Security	184	17 through 18	Jennifer Danner	SPD	SPD Crime Prevention Coordinator team should be requested for the CPTED assessments, and be involved in crime prevention consultations going forward in the process		Comment noted. This will be a consideration for final design. As described in Section 4.2.14 of the WSBL Draft EIS and Section 4.14, Public Services, Safety, and Security, of the the West Seattle Link Extension Final EIS, the Sound Transit Agency Safety Plan (Sound Transit 2020) requires a threat and vulnerability assessment for all new transit facilities. For this assessment, Sound Transit would review existing crime data in new station locations and interview law enforcement to identify possible security threats and risks. Stations would be designed using the principles of Crime Prevention Through Environmental Design to include numerous features such as abundant light, open access, and visibility to address security issues.
1185	Public Services, Safety and Security	186	15 through 23	Jennifer Danner	SPD	SPD staffing and availability of resources need to be considered		Comment noted. Section 4.14, Public Services, Safety, and Security, of the Final EIS states that Sound Transit would coordinate with City to provide adequate police services.

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1186	Parks and Recreational Resources	219	38 & 39	Jennifer Danner	SPD	It should be noted that there is an immense history of criminal and suspicious activity within Junction Plaza Park.		Noted. Not relevant for Section 4.17, Parks and Recreational Resources. Crime is covered in Section 4.14, Public Services, Safety, and Security.
1187	Parks and Recreational Resources	224 & 225	1 through 16	Jennifer Danner	SPD	From a crime prevention perspective, landscaping and visibility should be considered when looking at overall height of train- generally speaking, the closer to the ground, the better		Noted. Not relevant for Section 4.17, Parks and Recreational Resources. Crime and use of Crime Prevention Through Environmental Design is covered in Section 4.14, Public Services, Safety, and Security.
1188	Parks and Recreational Resources	227 & 228	7 through 40	Jennifer Danner	SPD	From a crime prevention perspective, landscaping and visibility should be considered when looking at overall height of train- generally speaking, the closer to the ground, the better		Noted. Not relevant for Section 4.17, Parks and Recreational Resources. Crime and use of Crime Prevention Through Environmental Design is covered in Section 4.14, Public Services, Safety, and Security.
1189	Parks and Recreational Resources	233	7 through 12	Jennifer Danner	SPD	With the potential for increased use of the parks due to improved access - crime in these parks could increase. Crime prevention and safety should be considered. Perhaps additional signage, lighting, Parks Security patrols, etc. could be included in this plan		Noted. Crime and use of Crime Prevention Through Environmental Design is covered in Section 4.14, Public Services, Safety, and Security. Indirect effects discusses activation of parks, which could deter crime.
1190	Public Services, Safety and Security	228	10 through 12	Jennifer Danner	SPD	The residents and businesses in the West Seattle Junction area might appreciate preferred option WSJ-3b*, and the removal of Junction Plaza Park due to ongoing and persistent issues in this area		Comment noted. The public comment period for the WSBLE Draft EIS provided the community with an opportunity to identify their preferences and concerns with all alternatives considered.
1191	Public Services, Safety and Security	234	3 through 5	Jennifer Danner	SPD	I would suggest consulting the neighborhood via local media (West Seattle Blog, Westside Weekly), community groups, Block Watch Captains, etc., regarding the effects on the West Seattle Golf Course. The West Seattle community is very involved, and would appreciate being consulted/informed of changes to their golf course		The public comment period for the WSBLE Draft EIS provided the community with an opportunity to identify their preferences and concerns with all alternatives considered. Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, for coordination that has been conducted so far with community groups.
1192	Executive Summary	-		Jennifer Danner	SPD	Using this opportunity to comment on station placement- from PowerPoint entitled "West Seattle and Ballard Link Extensions- Administrative Draft EIS Review Kick-Off"		Noted.
1193	Executive Summary	-	slide 28	Jennifer Danner	SPD	For the Delridge station- from a CPTED perspective, DEL-2a is preferred for visibility to the station from the street and surrounding homes/businesses. Crime in this area is notable, and this should be taken into consideration		Seattle Police Department's preference is noted. Please see response to CC4.14a in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1194	Ch 2 Alternatives Considered	Page 2-6	19	Barb Biondo	SPD	Plan for active monitoring of all public access points to underground stations to deter these locations from becoming escape routes for those engaged in criminal activity common around transit hubs (theft, narcotics activity, assaults) to evade law enforcement activity on the street level		Please see Section 2.1.2.2, Stations, and Section 4.14, Public Services, Safety, and Security, of the Final EIS for information on security at stations.
1195	Ch 2 Alternatives Considered	Page 2-8	12	Barb Biondo	SPD	Bicycle storage locker locations should be placed in well lit, convenient for transit riders, near high pedestrian traffic zones with unobstructed sight lines for added security through natural surveillance		As described in Section 4.2.14 of the WSBLE Draft EIS and Section 4.14, Public Services, Safety, and Security of the the West Seattle Link Extension Final EIS, the Sound Transit Agency Safety Plan (Sound Transit 2020) requires a threat and vulnerability assessment for all new transit facilities. For this assessment, Sound Transit would review existing crime data in new station locations and interview law enforcement to identify possible security threats and risks. Stations would be designed using the principles of Crime Prevention Through Environmental Design to include numerous features such as abundant light, open access, and visibility to address security issues.
1196	Ch 2 Alternatives Considered	Page 2-20	21	Barb Biondo	SPD	It looks like relocating the SODO Station closer to the intersection with Lander, (SODO 1b and SODO 2) and providing access from over-crossing will create safer pedestrian access to station		Comment noted. Thank you for your comment. Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for information on alternative refinements studied in the Final EIS, including SODO Station access from South Lander Street.
1197	Executive Summary	Page 10	ES.3.1.1.1	Jennifer Danner	SPD	With regards to the SODO Station, and the potential of relocating, I would highly encourage the group to consult the SODO BIA. The BIA has a vested interest in the area, and safety for their businesses		Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, of the Final EIS for more information on coordination that has taken place with the SODO Business Improvement Area.
1198	Executive Summary	Page 68	ES.8	Jennifer Danner	SPD	Continuing to consult the Duwamish tribe through the design and decision making process is highly important. This could also be a good opportunity to engage the tribe to assist with public art- which could spark engagement, and a sense of ownership, and decrease potential vandalism or graffiti in the future		Sound Transit has been consulting with Tribes and Tribal Organizations throughout the project development process. Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, of the Final EIS for more information on consultation with Tribes.
1199	Executive Summary	Page 38	ES.3.1.2.2	Jennifer Danner	SPD	When it comes to displacing a shelter, and potentially impacting businesses in the CID, I would highly suggest we consult and involve Monica Ly, the CID Public Safety Coordinator to assist with outreach, and getting feedback from the community. It is important to hold community meetings and ensure the community is heard.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1200	Executive Summary	Page 39	ES.3.1.2.2	Jennifer Danner	SPD	Also regarding the CID, given major issues at 12th and Jackson in 2021 and 2022, the light rail committees should be aware of this, and consider potential impacts to both community and law enforcement efforts in this area.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1201	Executive Summary	ES-9	Table ES-1	Laura Wojcicki	SDOT	Holgate and Lander Streets should not be closed at the same time	SODO/CID	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.11, Construction Impacts, and Chapter 5, Cumulative Impacts, of the Final EIS for more information on the closure of South Lander Street and the potential for cumulative construction impacts in this area. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1202	Executive Summary	ES-9	Table ES-1	Laura Wojcicki	SDOT	Will the SODO trail be open under build conditions for all alternatives?	SODO/CID	The Executive Summary presents a summary of the key environmental impacts of the alternatives, including a summary of transportation impacts. Please see Section 3.7, Affected Environment and Impacts During Operation - Non-motorized Facilities, of the Final EIS for more information on impacts to the SODO Trail. The SODO Trail will remain open under build conditions for all alternatives.
1203	Executive Summary	ES-18	Table ES-3	Laura Wojcicki	SDOT	What is the reason DEL 6 is not a preferred option? It has lower impacts to residential units and lower cost than many of the alternatives.	West Seattle (DUW, DEL, WSJ)	Please see response to CCG3 in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.
1204	Executive Summary	ES-18	Table ES-3	Laura Wojcicki	SDOT	Clarify why DeL-2a requires third party funding when it has lower cost than other alternatives, is it due to the adjacent segment and what it connects to?	West Seattle (DUW, DEL, WSJ)	Please see response to CC2c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1205	Technical Report: Transportation	2-13	2	Laura Wojcicki	SDOT	Major roadway closures associated with the Ballard Link Ext will be for multiple years. Statement that there will be "limited short-term impacts" does not sufficiently capture the level of impact	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1206	Technical Report: Transportation	3-1	3.1.1.1	Laura Wojcicki	SDOT	Clarify that the travel time savings is comparing bus (no build) to light rail (build). Clarify the start and end points of the travel time route that has this savings. For some transit riders that will need to transfer from bus to light rail, the savings would not be that high, depending on the wait time to transfer.	All (Systemwide)	This has been clarified in the Final EIS.
1207	Technical Report: Transportation	3-1	3.1.1.2	Laura Wojcicki	SDOT	Clarify that the travel time savings is comparing bus (no build) to light rail (build). Clarify the start and end points of the travel time route that has this savings. For some transit riders that will need to transfer from bus to light rail, the savings would not be that high, depending on the wait time to transfer.	All (Systemwide)	Clarified that travel times may vary depending on origin and destination, and whether transfers would be required. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1208	Technical Report: Transportation	3-1	3.1.1.1	Laura Wojcicki	SDOT	Define what a "direct" impact to Metro operations is to make sure that all impacts are being appropriately mitigated.	All (Systemwide)	Revised language for clarity.
1209	Technical Report: Transportation	3-2	3.1.1.2	Laura Wojcicki	SDOT	Modify language that construction "could" disrupt Metro bus operations. Given the number of roadway closures, construction will disrupt Metro bus operations.	All (Systemwide)	This is typical language in EIS documents. No change.
1210	Technical Report: Transportation	3-5	3.2.1.3	Laura Wojcicki	SDOT	Please clarify Table 3-4. There are frequent transit routes on the West Seattle Bridge why is the headway under West Seattle Bridge 31 minutes.	West Seattle (DUW, DEL, WSJ)	See response to comment 86.
1211	Technical Report: Transportation	3-7	3.2.1.3	Laura Wojcicki	SDOT	Modify heading for Table 3-6. It includes both AM and PM data, yet is labeled PM.	West Seattle (DUW, DEL, WSJ)	Heading has been updated.
1212	Technical Report: Transportation	3-9	3.2.2.2	Laura Wojcicki	SDOT	Check "All alternatives will increase transit ridership". Tables 2-11 shows that transit ridership only increases by 1% for West Seattle Link Extension compared to No build. It is a small increase in transit ridership.	West Seattle (DUW, DEL, WSJ)	The statement is accurate as written; no change.
1213	Technical Report: Transportation	3-9	3.2.2.2	Laura Wojcicki	SDOT	Has the H line termination been confirmed?	West Seattle (DUW, DEL, WSJ)	Future transit routing under construction, M.O.S., and full build alternatives have been confirmed with Metro.
1214	Technical Report: Transportation	3-20		Laura Wojcicki	SDOT	Alternative pathways need to provided where there are sidewalk closures. "where feasible" should be deleted.	all (Systemwide)	There may be some locations where alternative pathways were not feasible, but Sound Transit will work with the City of Seattle to find the best alternative possible during final design and permitting.
1215	Technical Report: Transportation	3-20		Laura Wojcicki	SDOT	calling the roadway closures "temporary" is not sufficiently defining the impact.	All (Systemwide)	Chapter 3, Transit, of Appendix N.1, Transportation Technical Report, includes tables indicating the durations of specific roadways closures and their effect on buses. No change.
1216	Technical Report: Transportation	3-37	3.3.2.1	Laura Wojcicki	SDOT	Do not assume that transit lanes would be removed or converted to GP lanes. If transit lanes are removed, it's possible that the space would be converted to other uses than GP traffic.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1217	Technical Report: Transportation	3-38	3.3.2.1	Laura Wojcicki	SDOT	Evaluate bus circulation that eliminates or reduces the need for crossing Elliott to transfer.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1218	Technical Report: Transportation	3-46	3.3.2.1	Laura Wojcicki	SDOT	calling the streetcar closures "temporary" is not sufficiently defining the impact.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1219	Technical Report: Transportation	3-46	3.3.2.1	Laura Wojcicki	SDOT	remove "potentially" from bus impacts	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1220	Technical Report: Transportation	3-48		Laura Wojcicki	SDOT	Would Lander St also have closures in the SODO segment that aren't mentioned here?	SODO/CID	The proposed closures of South Lander Street would occur with the West Seattle Link Extension under Preferred Option SODO-1c, Alternative SODO-1a, and Option SODO-1b. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on this closure.
1221	Technical Report: Transportation	4-2	4.1.2	Laura Wojcicki	SDOT	Several major streets are not mentioned as having construction closures for Downtown, Interbay and Ballard segments (Mercer, 4th, Harrison)	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1222	Technical Report: Transportation	4-10	4.2.1.2	Laura Wojcicki	SDOT	Table 4-7 shows Delridge/Genesee operations at LOS F in the AM and the text above says it operates at F in PM	West Seattle (DUW, DEL, WSJ)	This was reviewed and corrected as appropriate in the Final EIS. Corrected A.M. LOS result text.
1223	Technical Report: Transportation	4-14	4.2.2.1	Laura Wojcicki	SDOT	A 0.4% growth in traffic per year does not align with our goals	West Seattle (DUW, DEL, WSJ)	Background traffic growth was derived from the travel demand forecast model, which is based on adopted Puget Sound Regional Council land use forecasts.
1224	Technical Report: Transportation	4-33	4.2.2.2	Laura Wojcicki	SDOT	Did the analysis assume recent changes on Delridge?	West Seattle (DUW, DEL, WSJ)	The Final EIS assumed completion of the H Line improvements in Delridge for future year analysis. Because the base year is 2019, the H Line improvements are not reflected in the existing conditions LOS analysis.
1225	Technical Report: Transportation	4-38	4.2.2.2	Laura Wojcicki	SDOT	Modify language "with the exception of" when 3 out of 5 intersections operate at E or F, it's not the exception	West Seattle (DUW, DEL, WSJ)	This language was reviewed and updated as appropriate in Section 4.3.2.3 of Appendix N.1, Transportation Technical Report. Removed statement that many intersections operate at LOS D or better because 4 of 8 would not meet standard.
1226	Technical Report: Transportation	4-50	4.2.2.2	Laura Wojcicki	SDOT	Analysis at Avalon/Genesee needs to consider signal phasing and/or modifications for added left-turn movement.	West Seattle (DUW, DEL, WSJ)	Text was added to describe the signal operations assumptions with the added left-turn movement.
1227	Technical Report: Transportation	4-59	4.2.2.3	Laura Wojcicki	SDOT	When detouring 1000 vehicles in an hour from Lander, how was it determined that this could be adequately accommodated? Language should be revised to state that this could or would be an impact	SODO/CID	Please see Section 4.3.3.3 of Appendix N.1, Transportation Technical Report, for updated construction analysis, including an assessment of the operational impacts of the South Lander Street closure during construction.
1228	Technical Report: Transportation	4-61	4.2.2.3	Laura Wojcicki	SDOT	Clarify if SODO busway closure would displace 60 to 80 buses in an hour or day	SODO/CID	The text has been clarified in this section of the Final EIS to state that it is 60 to 80 buses in the peak hour.
1229	Technical Report: Transportation	4-61	4.2.2.3	Laura Wojcicki	SDOT	How was it determined that closing the SODO busway would not affect traffic conditions? If analysis not done that shows this, it should be stated that this could be an impact	SODO/CID	The WSBL Draft EIS evaluation was based on intersection analysis using Synchro software consistent with the traffic operations methodology outlined in the Technical Analysis Methodology memorandum for the Draft EIS (Attachment N.1A of Appendix N.1, Transportation Technical Report). The Final EIS includes additional microsimulation analysis of how additional bus volumes on 4th Avenue (due to the closure of the SODO Busway) would affect arterial operations, including trucks (see Section 3.5.3.3.2). The analysis also includes consideration of mitigation measures, such as Freight And Bus (FAB) lanes, to improve transit times and the secondary effects of that on other roadway users. Mitigation would be selected in collaboration with the City of Seattle.
1230	Technical Report: Transportation	4-92	4.3.2.2	Laura Wojcicki	SDOT	Do not assume that transit lanes would be removed or converted to GP lanes. If transit lanes are removed, it's possible that the space would be converted to other uses than GP traffic.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1231	Technical Report: Transportation	4-93	4.3.2.2	Laura Wojcicki	SDOT	Transit lanes have been implemented on 1st and Queen Anne	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1232	Technical Report: Transportation	4-93	4.3.2.2	Laura Wojcicki	SDOT	Do not assume that transit lanes would be removed or converted to GP lanes on 4th, 6th and Olive Way. If transit lanes are removed, it's possible that the space would be converted to other uses than GP traffic.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1233	Technical Report: Transportation	4-93	4.3.2.2	Laura Wojcicki	SDOT	Signal installed at Alaskan Way/Galer Street flyover	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1234	Technical Report: Transportation	4-93	4.3.2.2	Laura Wojcicki	SDOT	Include what signal modifications were assumed at Elliott Ave and West Galer Flyover. We would like to review the analysis to make sure assumption are feasible and in line with out policies	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1235	Technical Report: Transportation	4-93	4.3.2.2	Laura Wojcicki	SDOT	Preferred option SIB-1, how would left-turn access restrictions be mitigated and access accommodated for the 10 properties?	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1236	Technical Report: Transportation	4-94	4.3.2.2	Laura Wojcicki	SDOT	Option SIB-2 and SIB-3 , provide more details on the impacted turns and how access will be provided.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1237	Technical Report: Transportation	4-94	4.3.2.2	Laura Wojcicki	SDOT	IBB-1b and IBB-3 Column placement could impact operations along 14th, including at 14th/Leary. Additional intersections should be evaluated for this alternative.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1238	Technical Report: Transportation	4-106	4.3.2.1	Laura Wojcicki	SDOT	Noting that 6th and Spring is a major bottleneck in downtown Seattle and has access to I-5 ramps. This could be very challenging to operate with heavy pedestrian activity.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1239	Technical Report: Transportation	4-109	4.3.2.1	Laura Wojcicki	SDOT	Aurora at Harrison should be changed to 7th at Harrison	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1240	Technical Report: Transportation	4-110	4.3.2.1	Laura Wojcicki	SDOT	Noting that additional congestion at 6th/Seneca and 6th/Spring will be challenging to operate. Mitigation could involve looking at some recirculation in the area	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1241	Technical Report: Transportation	4-110	4.3.2.1	Laura Wojcicki	SDOT	Modify language that uses "with the exception of the following" for Smith Cove area. 4 of the 5 operate at E or F.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1242	Technical Report: Transportation	4-124	4.3.2.3	Laura Wojcicki	SDOT	1st Ave is not a great detour route due to area ways other routes should be considered for the 4th Ave detour.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1243	Technical Report: Transportation	4-124	4.3.2.3	Laura Wojcicki	SDOT	There is not enough capacity to detour the amount of traffic for several of the street closures. Many trips will need to mode shift, not happen, change time periods. Stating that it will result in increased congestion is not sufficient and does not appropriately capture the impacts	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1244	Technical Report: Transportation	4-126	4.3.2.3	Laura Wojcicki	SDOT	For the 4th Ave South closure, trips would also detour to SR 99 and maybe I-5.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1245	Technical Report: Transportation	4-126	4.3.2.3	Laura Wojcicki	SDOT	For 4th Ave South, AM is the worst case and should be included.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1246	Technical Report: Transportation	4-132	4.3.2.3	Laura Wojcicki	SDOT	DT - 1, stating that there will be increased congestion does not appropriately capture the level of impact	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1247	Technical Report: Transportation	4-132	4.3.2.3	Laura Wojcicki	SDOT	Westlake Station, stating that there will be increased congestion does not appropriately capture the level of impact from a 4th Ave closure	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1248	Technical Report: Transportation	4-135	4.3.2.3	Laura Wojcicki	SDOT	AM peak is heavier for Pine St	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1249	Technical Report: Transportation	4-136	4.3.2.3	Laura Wojcicki	SDOT	Seattle Center Station: could look into Roy St as being a detour for lane closures on Mercer. This would likely require some rechannelization and maybe some signal modifications for mitigation	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1250	Technical Report: Transportation	4-138	4.3.2.3	Laura Wojcicki	SDOT	Most trips would not be able to stay on Elliott Way if 4 lanes were closed. There would need to be significant detours, mode shift, reduction in trips and peak spreading. Need to modify language to appropriately define impact	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1251	Executive Summary	ES-18	Table ES-3	Tom Le	SDOT	DEL-2a and WSJ-3a or WSJ-3b costs approximately \$100 M more than DEL-1a and WSJ-1. If alternatives in other locations have less cost than the preferred option and that is chosen, why does these options need third party funding? Is the third party funding a carryover of the early cost estimate for this?	west Seattle (DUW, DEL, WSJ)	Please see response to CC2c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1252	Technical Report: Transportation	2-9	2.2.2.2	Tom Le	SDOT	Impacts to arterials, including, but not limited to full closures of arterial streets, have impacts to regional transportation facilities and travel.	All (Systemwide)	Added discussion of nearby arterial closures and potential effects on regional roadways.
1253	Technical Report: Transportation	3-5	3.2.1.3	Tom Le	SDOT	What is Table 3-4 trying to indicate? And is this being calculated as an average of all bus routes across the screenline?	west Seattle (DUW, DEL, WSJ)	See response to comment 86.
1254	Technical Report: Transportation	3-10	3.2.2.2	Tom Le	SDOT	Due to grades on Yancy and no identified road work scoping on Yancy, are these reasonable assumptions for Metro Connects 1043, 2003, 2021, and 3400 to service Delridge Station along the route identified? If not, would this increase ridership at the Alaska Junction Station if termination had to be made at the Alaska Junction Station?	west Seattle (DUW, DEL, WSJ)	All transit service plan assumptions were developed in collaboration with Metro, which included a confirmation about the feasibility of routing and identification of needed pavement or other improvements. Note that the Final EIS focuses discussion on the preferred alternative, which does not include any bus reroutes along Yancy.
1255	Technical Report: Transportation	3-20		Tom Le	SDOT	Multi-year street closures have impacts to alternative pathway streets and to the system that are not accurately depicted within the description	All (Systemwide)	Updated discussion to include more detail around long-term closure impacts across all West Seattle Link Extension segments. Key closures highlighted include (but are not limited to) the SODO Busway, South Lander Street, Southwest Genesee Street, and 35th Avenue Southwest. Mitigation measures are identified for these closures.
1256	Technical Report: Transportation	3-20		Tom Le	SDOT	Alternatives constructed outside the roadway right-of-way, depending on proximity to the right-of-way, may still have impacts to the roadway and bus routes. This may be dependent on the space in the right-of-way that may needed to construct structures outside of the right-of-way.	All (Systemwide)	The Final EIS considered guideway construction impacts to bus operations, and they are included in tables in the Final EIS, along with impacted routes.
1257	Appendix G - Environmental Justice	Page 4-4	4.3.2	Nicole Kistler	DON	This refers to the Jackson Hub work. We should be sure to note what support and/or more nuance in the support. Truth-check this statement.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1258	Appendix G - Environmental Justice	Page 4-6	4.3.4	Nicole Kistler	DON	These need to be updated to match the draft RET and should be updated again after we get feedback on the draft RET	All (Systemwide)	Text updated to reflect the Environmental Review Phase RET Report published in July 2022.
1259	Appendix G - Environmental Justice	Page 4-6	4.3.4	Nicole Kistler	DON	Need consistent use of City of Seattle Department of Neighborhoods' Community Liaisons	All (Systemwide)	Updated all instances of this term.
1260	Appendix G - Environmental Justice	Page 5-5	Table 5-2	Nicole Kistler	DON	ST should also be coordinating with the Duwamish Tribe that uses this waterway for their canoe family.	West Seattle (DUW, DEL, WSJ)	Sound Transit has and continues to consult with the Duwamish Tribal Organization. Their feedback has been incorporated in the Final EIS as appropriate.

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1261	Appendix G - Environmental Justice	Page 5-5	Table 5-2	Nicole Kistler	DON	What do the asterisks denote? There is no reference on the table.	All (Systemwide)	The asterisks used in this table in the WSBLE Draft EIS were defined at the beginning of Section 5, and a footnote was provided at the end of the table. For the West Seattle Link Final EIS, these asterisks have been removed. A response to this comment relative to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1262	Appendix G - Environmental Justice	Page 3-19	3.2.4	Nicole Kistler	DON	How do other urban indigenous people use the waterways? How does the Duwamish use the waterways? Is there adequate outreach to these groups by ST? What outreach has been done to understand how these groups use the waterways?	All (Systemwide)	Sound Transit has and continues to consult with Tribes and Tribal Organizations. Their feedback and feedback from any other indigenous groups has been incorporated in the Final EIS as appropriate.
1263	Appendix G - Environmental Justice	Page 4-17	4.4.3.2	Nicole Kistler	DON	Is this true? I think this is a biased statement that not everyone would agree with.	All (Systemwide)	As stated at the beginning of page 4-17 of Appendix G of the WSBLE Draft EIS, the text summarizes the comments and themes Sound Transit heard in conversations with community members, social service providers, and other organizations during the interviews.
1264	Appendix G - Environmental Justice	Page 4-17	4.4.3.2	Nicole Kistler	DON	This section should also talk about the need for bathrooms and amenities that help make a place feel safe and accessible. The barriers to using transit were not all illuminated here.	All (Systemwide)	This was not identified as a comment theme heard during community engagement leading up to publication of the WSBLE Draft EIS. Text was added to clarify.
1265	Appendix G - Environmental Justice	Page 4-17	4.4.3.2	Nicole Kistler	DON	This is oversimplified. There are concerns about business displacement due to construction, but also due to increased rents for business owners. Using the term "gentrification" doesn't really fully explain what's happening.	All (Systemwide)	This was not identified as a comment theme heard during community engagement leading up to publication of the WSBLE Draft EIS. Text was added to clarify.
1266	Appendix G - Environmental Justice	Page 5-6	Table 5-2	Nicole Kistler	DON	The RET identifies that the majority of minority riders to the stations would have to transfer at the stations whereas now they have a one-seat ride. In addition, closures on Delridge at night and on weekends would disproportionately affect minorities in RET priority communities	West Seattle (DUW, DEL, WSJ)	Sections 5 and 6 describe the travel time savings with the West Seattle Link Extension, which would occur even with a transfer from bus to light rail. Reliability of light rail compared to bus is also noted. Impacts to minority and low-income populations are updated to reflect the Delridge Way Southwest closure in the Duwamish and Delridge segments. The location of this closure could occur in either segment depending on the project alternative.
1267	Executive Summary	Fact Sheet i		Kelly Obrien	DON	Noting how many times communities of color are invoked in the document.		Noted, no change requested.
1268	Executive Summary	Fact Sheet i		Kelly Obrien	DON	"The Board is not bound by its identification of a preferred alternative" - Is this a thing that is ever interrogated in relation to the goals of the RET?		As described in Chapter 2, Alternatives Considered, of the WSBLE Draft EIS and the West Seattle Link Extension Final EIS, "preferred alternative" is a NEPA and SEPA term used to indicate preference for alternatives based on currently available information. It is not a decision on the project to build.
1269	Executive Summary	ES-2		Kelly Obrien	DON	Urban villages: West Seattle Junction and Ballard neighborhoods" As these communities are invoked the analysis of benefits vs burdens must be balanced.		The appendix discusses potential impacts, mitigation, and potential benefits.
1270	Executive Summary	ES-3	ES.2.2.	Kelly Obrien	DON	4th bullet: this all seems so perfunctory. Can we see links between this and the REOs from the RET and the content in these sections?		The Executive Summary presents a summary of the need for the Project. Please see Section 1.2, Purpose and Need for the West Seattle Link Extension Project, of the Final EIS for more information. Appendix G, Environmental Justice, of the Final EIS contains more information on the RET process.
1271	Executive Summary	ES-4	ES.2.3.	Kelly Obrien	DON	3rd paragraph "under the No Build Alternative..." Communities need REAL value for the disruption. Would the communities benefit?		The first part of this paragraph relates to the No Build Alternative. The second part of the paragraph, and subsequent paragraphs, discuss the benefits of the Build Alternatives. Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, and Appendix G, Environmental Justice, of the Final EIS for more information on benefits and impacts to the community. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1272	Executive Summary	ES-4	ES.2.3.	Kelly Obrien	DON	4th paragraph 2nd column: Is there integration here? Is this improvement to access just mean transportation access? Being able to get to the door and get inside the door are 2 different things. Any accounting for this or is this just a statement of hope		The statement referenced refers to transportation access, as the project is a transportation project.
1273	Executive Summary	ES-5	ES.3	Kelly Obrien	DON	"the Board did not identify a preferred alternative in the CID" Did outreach?		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1274	Executive Summary	ES-6	ES.3.1.	Kelly Obrien	DON	1st paragraph 3rd column "the Delridge Station was identified..." All areas with significant communities of color		Correct. This text refers to the identification of the Delridge Station as the M.O.S. in part because terminating there would still provide for high capacity transit access for the communities listed.

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1275	Executive Summary	ES-7	ES 3.1.1.1	Kelly Obrien	DON	So by page 7 I ask, is this supposed to be a general audience friendly document? Gosh it's dense!		Throughout the environmental review process, Sound Transit has hosted public open houses and forums, attended community events, presented to community organizations, and made staff available to share project information with businesses, neighborhoods, potentially affected property owners, and other interested groups and answer questions. Project materials developed for these events were developed with the objective of clearly explaining the environmental review process and technical information. Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, of the Final EIS for more information. Sound Transit also prepared an online readers guide for the Draft EIS to help people navigate the document and find more information.
1276	Executive Summary	ES-12	Table ES-2	Kelly Obrien	DON	There must be some place where we know the demographics of these potential residential displacements?	West Seattle (DUW, DEL, WSJ)	Please see Appendix G, Environmental Justice, of the Final EIS for information on demographics.
1277	Executive Summary	ES-22	ES.3.1.1.4.	Kelly Obrien	DON	Why are fewer neighborhood impacts not determinative? It's like trying to balance things that may have not to be balanced! It's definitely confusing to the reader.	West Seattle (DUW, DEL, WSJ)	Please see response to CCG3 in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.
1278	Executive Summary	ES-27	ES.3.1.2.2.	Kelly Obrien	DON	This seems so dismissive of some real impacts! There could be more caring language here!	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1279	Executive Summary	ES-28	ES.3.1.2.2.	Kelly Obrien	DON	There are too many referrals to specific displacements in communities of color for some of the analysis that comes later which says there are not. Racist effects are cumulative.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1280	Executive Summary	ES-29	ES.3.1.2.2.	Kelly Obrien	DON	Table ES-5, 5th Avenue Deep Station Option (CID-2b) column: this seems like an easy decision	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1281	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	Re: "the populations in WSLE study area (1st column 1st paragraph) " Okay... so this is the first analytical issue. There is a proportionality misunderstanding in how we approach racial equity work. we must look at the effects on those most harmed, not those most harmed compared to everybody else.	All (Systemwide)	The Executive Summary presents a summary of the RET process. Please see Appendix G, Environmental Justice, of the Final EIS for further information on demographic data. While this data provides information regarding concentrations of specific populations, the entire project corridor is evaluated for potential disproportionate impacts to people of color and low income populations regardless of the demographic data.
1282	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	Re: "the populations in WSLE study area (1st column 1st paragraph final sentence) " With so many adverse impacts listed for different stations is the analytical lack of impact a mathematical issue. There aren't that many of them, so they aren't adversely affected? This is counter to the methods of our partnered RET process.		The Executive Summary presents a summary of the Environmental Justice analysis. Please see Appendix G, Environmental Justice, of the Final EIS for information on the RET process.
1283	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	Re: "the populations in 1st column 3rd paragraph final sentence, The RST work should clue us into the fact the communities of color and low income populations experience disparate impacts. distribution of impacts for the general population could never equal the impact similar distribution in communities of color.	All (Systemwide)	The Executive Summary presents a summary of the Environmental Justice analysis. Please see Appendix G, Environmental Justice, of the Final EIS for information on the RET process.
1284	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	Re: "the populations in 1st column 4th paragraph sentences 1 & 2, What sort of contradictory stuff is this? Are there impacts or not!?"		The Executive Summary presents a summary of the Environmental Justice analysis. Please see Appendix G, Environmental Justice, of the Final EIS for more information.
1285	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	RE: 2nd column 2nd paragraph, Clearly using the racial equity toolkit as a sign off for this work without acknowledging that it's supposed to affect decision making processes. This needs to be uplifted in this document. The RET is not worth just a paragraph in the ES.		The Executive Summary presents a summary of the Environmental Justice analysis. Please see Appendix G, Environmental Justice, of the Final EIS for information on the RET process.
1286	Executive Summary	ES-43	ES 6.2.2.	Kelly Obrien	DON	RE: 3rd column 2nd paragraph, final 5 sentences, additional RET content could perhaps be uplifted here... how did the RET really inform this part of the process?	All (Systemwide)	The Executive Summary presents a summary of the Environmental Justice analysis. Please see Appendix G, Environmental Justice, of the Final EIS for information on the RET process.
1287	Executive Summary	ES-45	ES.9	Kelly Obrien	DON	RE: final two sentences of ES.9 is that it? I'm not sure that's it!	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1288				SCL	SCL	What about access to SSC for construction for permanent footing shown on SCL property?	West Seattle (DUW, DEL, WSJ)	Sound Transit will continue coordinating with Seattle City Light during final design regarding any project components on Seattle City Light facilities.
1289				SCL	SCL	Add discussion regarding major utility impacts. 230 kV relocation to 6th Ave S would/may require full/partial closures to installed drilled pier foundations and erect poles to maintain required clearances to energized lines, which would include the existing 26 kV line along the west/east side of 6th Ave S. Depending on timing of utility relocation work, may have impacts	All (Systemwide)	See response to comment 72.
1290	Utilities	Pg. 4.2.15-5		SCI	SCL	100' for all major utilities or all utilities? Need to clarify. If analysis includes all non major utilities, then 100' may need to be expanded. Please include the proposed 230 kV alignment(s) along 6th Ave S within the project area as we think it is out of the 100' analysis.	All (Systemwide)	The 100-foot study area is what is specified in the methodology document and per the methods, only major utilities are included. The proposed 230-kV transmission line is included in Section 4.15 of the Final EIS and is in the project study area.
1291	Utilities	Pg. 4.3.3-13		SCL	SCL	Change : "to any SCL infrastructure necessary"	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1292	Utilities	Pg. 4.3.15-1		SCL	SCL	Impacts to utility customers are not fully known as construction methods and final designs may affect SCL customers. SCL's position is that ST work to minimize, if feasible, the number of outages needed to construct all of these alternatives. Specific to the 230 kV corridor, we need to really take hard look at service disruptions and how to maintain service to our customers and system reliability during the time frame of construction to ensure that additional mitigation measures are not required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1293	Utilities	Pg. 4.3.15-2		SCL	SCL	Change to: "Sound Transit did not evaluate or inventory impacts to minor utilities but will evaluate and inventory as the design(s) are progressed from preliminary to final design(s)."	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1294	Utilities	Pg. 4.3.15-2		SCL	SCL	Suggest changing to "In some cases, utilities may need to be relocated to adjacent rights of way and/or require additional easement(s) from affected private properties."	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1295	Utilities	Pg. 4.3.15-5		SCL	SCL	Add language to clarify that other alternative routes for the 230 kV line relocation may be considered, such as along 4th Ave S.	All (Systemwide)	Clarified that, based on coordination to date between Sound Transit and Seattle City Light, 6th Avenue South has been identified as the preferred corridor for relocation of the 230-kv lines.
1296	Utilities			SCL	SCL	Add "major" before utilities.	All (Systemwide)	Unclear what text is being referenced.
1297	Economics	General		SCL	SCL	Just curious to see how this doesn't affect businesses, especially if loading dock is blocked?	All (Systemwide)	Temporary impacts to businesses during construction is described in Section 4.3, Economics. Mitigation discussed in this section includes coordination with businesses during limited times of access.
1298	Utilities	TPSS		SCL	SCL	100' for all major utilities or all utilities? Need to clarify. If analysis includes all non major utilities, then 100' may need to be expanded. Please include the proposed 230 kV alignment(s) along 6th Ave S within the project area as we think it is out of the 100' analysis.	All (Systemwide)	The 100-foot study area is what is specified in the methodology document and per the methods, only major utilities are included. The proposed 230-kV transmission line is included in Section 4.15 of the Final EIS and is in the project study area.
1299	Utilities	L50-GSP104		SCL	SCL	Change : "to any SCL infrastructure necessary"	All (Systemwide)	Edit made in Section 4.15, Utilities, of the Final EIS.
1300	Utilities	L50-GSP105		SCL	SCL	Impacts to utility customers are not fully known as construction methods and final designs may affect SCL customers. SCL's position is that ST work to minimize, if feasible, the number of outages needed to construct all of these alternatives.	All (Systemwide)	Comment noted. Sound Transit will continue to coordinate with City of Seattle regarding utility relocation.
1301	Utilities	L50-GSP106		SCL	SCL	115 kV UG transmission line is located in this area. As noted in the engineering work groups, SCL has commented that minimal temporary and permanent clearances need to be made to these lines and ST will need to evaluate impacts to these existing UG facilities to ensure they are not impacted by the construction and operation of the preferred and alternative alignments. Transmission line outages are generally not allowed and take up to one year to schedule in advance, if even possible.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1302	Appendix J - Conceptual Design Drawings	L50-GSP107		SCL	SCL	SCL facilities are not surveyed and included in the ST drawing. Therefore all the conflicts mentioned below may not be in direct conflict with the ST3 alignment. Where the ST3 elevated alignment is not in direct conflict with SCL OH line, proper horizontal clearance must be maintained per SCL construction standards.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1303	Appendix J - Conceptual Design Drawings	L50-GSP107		SCL	SCL	TPSS source stated below are conceptual. Loads at this time is not provide, therefore unknown. Additional UG/OH feeder, and installation of Vista switches may be required System planning will need to study the load and require major feeder upgrade work to feed TPSS.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1304	Appendix J - Conceptual Design Drawings	L50-GSP108		SCL	SCL	SCL double gain OH 26kV feeders on both sides of Elliott Ave W in conflict with ST3 alignment	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1305	Appendix J - Conceptual Design Drawings	L50-GSP109		SCL	SCL	SCL double gain OH 26kV feeders on both sides of Elliott Ave W, and OH feeder ties in conflict with ST3 alignment	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1306	Appendix J - Conceptual Design Drawings	L50-GSP110		SCL	SCL	ST3 alignment crossing Magnolia Bridge in conflict with double gain OH 26kV feeder	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1307	Appendix J - Conceptual Design Drawings	L50-GSP306, L50-GSP307		SCL	SCL	ST3 alignment in conflict with OH 26kV feeder on W Armory Way	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1308	Appendix J - Conceptual Design Drawings	L50-GSP706		SCL	SCL	ST3 alignment in conflict with OH 26kV feeder on W Barrett St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1309	Appendix J - Conceptual Design Drawings	L50-GSP707		SCL	SCL	ST3 alignment in conflict with double gain OH 26kV feeder on W Dravus St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1310	Appendix J - Conceptual Design Drawings	L50-GSP808		SCL	SCL	ST3 alignment in conflict with OH 26kV feeders and local distribution on 17th Ave W, Thorndyke Ave W, 16th Ave W, W Ruffner St, 14th Ave W,	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1311	Appendix J - Conceptual Design Drawings	L50-GSP809		SCL	SCL	ST3 alignment in conflict with OH 26kV feeders and local distribution on W Nickerson St, 13th Ave W, W Ewing St, 14th Ave W, NW 45th St, NW 46th St,	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1312	Appendix J - Conceptual Design Drawings	L50-GSP308		SCL	SCL	ST3 alignment in conflict with OH 26kV feeders and local distribution on NW Leary Way, 14th Ave W, NW 49th St, NW 50th St, NW 51st St, NW 52nd St, NW 53rd St, NW 54th St, NW Market St, NW 56th St, NW 57th St, NW 58th St,	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1313	Appendix J - Conceptual Design Drawings	L50-GSP309		SCL	SCL	ST3 alignment in conflict with double gain OH feeder on 15th Ave NW	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1314	Appendix J - Conceptual Design Drawings	L50-GSP310		SCL	SCL	ST3 alignment in conflict with OH line/feeder on 15th Ave NW and W Newton St, and W Armory Way	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1315	Appendix J - Conceptual Design Drawings	L50-GSP702		SCL	SCL	ST3 alignment in conflict with OH line/feeder on W Barrett St, and W Dravus St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1316	Appendix J - Conceptual Design Drawings	L50-GSP104		SCL	SCL	ST3 alignment in conflict with double gain OH feeder on 15th Ave NW, W Bertona St, W Ruffner St, 14th Ave NW and the Alley Between 14th Ave NW and 15th Ave NW	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1317	Appendix J - Conceptual Design Drawings	L50-GSP106		SCL	SCL	ST3 alignment in conflict with OH 26kV feeders and local distribution on W Nickerson St, 13th Ave W, and W Ewing St,	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1318	Appendix J - Conceptual Design Drawings	L50-GSP304		SCL	SCL	ST3 alignment in conflict with OH line/feeder on 15th Ave NW, W Barrett St, W Dravus St, W Bertona St, W Nickerson St, W Ruffner St, and W Emerson St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1319	Appendix J - Conceptual Design Drawings	L50-GSP305		SCL	SCL	ST3 alignment in conflict with OH line/feeder on W Emerson St, Shilshole Ave N, NW 46th St, and NW Ballard Way	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1320	Appendix J - Conceptual Design Drawings	L50-GSP705		SCL	SCL	ST3 alignment in conflict with OH line/feeder and underground feeder on NW Ballard Way, NW Leary Way, NW 49th St, NW 50th St, and NW 51st St, and 15th Ave NW	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1321	Appendix J - Conceptual Design Drawings	L50-GSP108		SCL	SCL	TPSS source at Southlake Station on Roy St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1322	Appendix J - Conceptual Design Drawings	L50-GSP110		SCL	SCL	TPSS source from W Harrison ST and 4th Ave W. OH Reconductoring may be required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1323	Appendix J - Conceptual Design Drawings	L50-GSP808		SCL	SCL	TPSS source form 15th Ave W or W Garfield St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1324	Appendix J - Conceptual Design Drawings	L50-GSP208		SCL	SCL	TPSS source from W Harrison ST and 4th Ave W. OH Reconductoring may be required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1325	Appendix J - Conceptual Design Drawings	L50-GSP210		SCL	SCL	TPSS source on Elliott Ave W	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1326	Appendix J - Conceptual Design Drawings	L50-GSP510		SCL	SCL	TPSS source on Elliott Ave W	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1327	Appendix J - Conceptual Design Drawings	L50-GSP308		SCL	SCL	TPSS source on 17th Ave W or Thorndyke Ave W	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1328	Appendix J - Conceptual Design Drawings	L50-GSP310		SCL	SCL	TPSS source on NW 52nd St. Major feeder upgrade/work in the area will be required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1329	Appendix J - Conceptual Design Drawings	Appendix J L50-CYX107		SCL	SCL	TPSS source on W Dravus St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1330	Appendix J - Conceptual Design Drawings	Appendix J G50-GZK056		SCL	SCL	TPSS source on 17th Ave W or Thorndyke Ave W	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1331	Appendix J - Conceptual Design Drawings	NORTH ARROW		SCL	SCL	TPSS source on NW 52nd St. Major feeder upgrade/work in the area will be required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1332	Appendix J - Conceptual Design Drawings	TPSS		SCL	SCL	TPSS source on NW 52nd ST or 15th Ave NW. Major feeder upgrade may be needed	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1333	Appendix J - Conceptual Design Drawings	GENERAL		SCL	SCL	TPSS source on W Dravus St	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1334	Appendix J - Conceptual Design Drawings	L50-GSP718, L50-GSP118		SCL	SCL	TPSS source on NW 50th St. Feeder upgrade will be required.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1335	Appendix J - Conceptual Design Drawings	L50-GSP618		SCL	SCL	230 kV transmission pole height limit should be 175' above grade. That's the tallest height SCL equipment can reach.	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1336	Appendix J - Conceptual Design Drawings	L50-GSP119		SCL	SCL	Verify 115 kV crossing impacts around south lake union station with most current SCL transmission system map, attached.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1337	Appendix J - Conceptual Design Drawings	L50-GSP130		SCL	SCL	WOULD BE NICE TO HAVE CONSISTENCY WITH NORTH ARROW DIRECTION ON ALL DWG	All (Systemwide)	Comment noted.
1338	Appendix J - Conceptual Design Drawings	L50-GSP120		SCL	SCL	SOURCE STATED ARE POSSIBILITIES, EXTRA WORK (EXTRA POLE, RECONDUCTOR, RELOCATE EXISTING EQUIPMENT, ETC) MAYBE REQUIRED TO SERVE TPSS. LOADS UNKNOWN.	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1339	Appendix J - Conceptual Design Drawings	L50-GSP121		SCL	SCL	SOME AREAS WHERE ELEVATED STRUCTURE NOT AFFECTING OVERHEAD WIRES BUT SUPPORTING COLUMNS MAY BE IN CONFLICT WITH POLE LINES: THIS IS WHAT IS MEANT BELOW WHEN IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1340	Appendix J - Conceptual Design Drawings	L50-GSP122		SCL	SCL	@LANDER ST: PROPOSED LANDER OVERCROSSING STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1341	Appendix J - Conceptual Design Drawings	L50-GSP619		SCL	SCL	@LANDER ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1342	Appendix J - Conceptual Design Drawings	L50-GSP630		SCL	SCL	@4TH AVE S: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1343	Appendix J - Conceptual Design Drawings	L50-GSP620		SCL	SCL	@6TH AVE S: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1344	Appendix J - Conceptual Design Drawings	L50-GSP621		SCL	SCL	@2ND AVE S, 1ST AVE S, COLORADO AVE S: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.

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1345	Appendix J - Conceptual Design Drawings	L50-GSP622		SCL	SCL	@DUWAMISH AVE S, ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1346	Appendix J - Conceptual Design Drawings	L50-GSP719		SCL	SCL	@SW MARGINAL PL, POSSIBLE ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1347	Appendix J - Conceptual Design Drawings	L50-GSP730		SCL	SCL	SAME AS NOTE #3 (Comment #368 on this spreadsheet)	All (Systemwide)	Sound Transit will continue to coordinate with Seattle City Light as design advances.
1348	Appendix J - Conceptual Design Drawings	L50-GSP720		SCL	SCL	SAME AS NOTE #4 (Comment #369 on this spreadsheet)	All (Systemwide)	Sound Transit will continue to coordinate with Seattle City Light as design advances.
1349	Appendix J - Conceptual Design Drawings	L50-GSP729		SCL	SCL	SAME AS NOTE #5 (Comment #370 on this spreadsheet)	All (Systemwide)	Sound Transit will continue to coordinate with Seattle City Light as design advances.
1350	Appendix J - Conceptual Design Drawings	L50-GSP123		SCL	SCL	@DUWAMISH AVE S, ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1351	Appendix J - Conceptual Design Drawings	L50-GSP124		SCL	SCL	@SW MARGINAL PL, POSSIBLE ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1352	Appendix J - Conceptual Design Drawings	L50-GSP823		SCL	SCL	SAME AS NOTE #3 (Comment #368 on this spreadsheet)	All (Systemwide)	Sound Transit will continue to coordinate with Seattle City Light as design advances.
1353	Appendix J - Conceptual Design Drawings	L50-GSP823		SCL	SCL	SAME AS NOTE #4 (Comment #369 on this spreadsheet)	All (Systemwide)	Sound Transit will continue to coordinate with Seattle City Light as design advances.
1354	Appendix J - Conceptual Design Drawings	L50-GSP223		SCL	SCL	@2ND AVE S, COLORADO AVE S: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1355	Appendix J - Conceptual Design Drawings	L50-GSP223		SCL	SCL	@6TH AVE S, 4TH AVE S, 2ND AVE S: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1356	Appendix J - Conceptual Design Drawings	L50-GSP224		SCL	SCL	@S DAKOTA St, 25TH AVE SW: STATION CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.

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1357	Appendix J - Conceptual Design Drawings	L50-GSP1023		SCL	SCL	@ 26TH AVE SW, SW AVALON WAY: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1358	Appendix J - Conceptual Design Drawings	L50-GSP1023		SCL	SCL	@SW ANDOVER ST, ELEVATED STRUCTURE CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1359	Appendix J - Conceptual Design Drawings	L50-GSP1023		SCL	SCL	@25TH AVE SW: STATION CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1360	Appendix J - Conceptual Design Drawings	L50-GSP1024		SCL	SCL	@SW ANDOVER ST, DELRIDGE WAY SW: ELEVATED STRUCTURE CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1361	Appendix J - Conceptual Design Drawings	L50-GSP423		SCL	SCL	@SW DAKOTA ST, 25TH AVE SW: ELEVATED STRUCTURE/STATION IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1362	Appendix J - Conceptual Design Drawings	L50-GSP423		SCL	SCL	@~SB-W-294+00 TO SB-W-298+00: ELEVATED STRUCTURE CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1363	Appendix J - Conceptual Design Drawings	L50-GSP424		SCL	SCL	@SW ANDOVER ST, DELRIDGE WAY SW: ELEVATED STRUCTURE CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1364	Appendix J - Conceptual Design Drawings	L50-GSP424		SCL	SCL	@SW DAKOTA ST, 25TH AVE SW: ELEVATED STRUCTURE/STATION IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1365	Appendix J - Conceptual Design Drawings	L50-GSP1123		SCL	SCL	@26TH AVE SW, SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1366	Appendix J - Conceptual Design Drawings	L50-GSP1123		SCL	SCL	ALONG SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.

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1367	Appendix J - Conceptual Design Drawings	L50-GSP1123		SCL	SCL	@SW ANDOVER ST, DELRIDGE WAY SW: ELEVATED STRUCTURE/STATION CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1368	Appendix J - Conceptual Design Drawings	L50-GSP323		SCL	SCL	@25TH AVE SW, 26TH AVE SW: ELEVATED STRUCTURE/STATION IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1369	Appendix J - Conceptual Design Drawings	L50-GSP324		SCL	SCL	ALONG SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1370	Appendix J - Conceptual Design Drawings	L50-GSP324		SCL	SCL	@SW AVALON WAY: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1371	Appendix J - Conceptual Design Drawings	L50-GSP523		SCL	SCL	ALONG DELRIDGE WAY SW BETWEEN 22ND AVE SW AND SW DAKOTA ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1372	Appendix J - Conceptual Design Drawings	L50-GSP324		SCL	SCL	@25TH AVE SW, 26TH AVE SW: ELEVATED STRUCTURE/STATION IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1373	Appendix J - Conceptual Design Drawings	L50-GSP324		SCL	SCL	ALONG SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1374	Appendix J - Conceptual Design Drawings	L50-GSP523		SCL	SCL	@23RD AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1375	Appendix J - Conceptual Design Drawings	L50-GSP524		SCL	SCL	ALONG SW AVALON WAY: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1376	Appendix J - Conceptual Design Drawings	L50-GSP925		SCL	SCL	@SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.

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1377	Appendix J - Conceptual Design Drawings	L50-GSP925		SCL	SCL	@23RD AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1378	Appendix J - Conceptual Design Drawings	L50-GSP926		SCL	SCL	@SW YANCY ST AND ALONG SW AVALON WAY: ELEVATED STRUCTURE IN CONFLICT WITH OVER WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1379	Appendix J - Conceptual Design Drawings	L50-GSP125		SCL	SCL	@SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1380	Appendix J - Conceptual Design Drawings	L50-GSP125		SCL	SCL	@SW AVALON WAY, 32ND AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1381	Appendix J - Conceptual Design Drawings	L50-GSP126		SCL	SCL	@32ND AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1382	Appendix J - Conceptual Design Drawings	L50-GSP126		SCL	SCL	@SW GENESEE ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1383	Appendix J - Conceptual Design Drawings	L50-GSP625		SCL	SCL	ALONG FAUNTLEROY WAY SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1384	Appendix J - Conceptual Design Drawings	L50-GSP525		SCL	SCL	@SW EDMUNDS ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1385	Appendix J - Conceptual Design Drawings	L50-GSP616		SCL	SCL	@SW AVALON WAY: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1386	Appendix J - Conceptual Design Drawings	L50-GSP718, L50-GSP118, L50-GSP618		SCL	SCL	@FAUNTLEROY WAY SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.

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1387	Appendix J - Conceptual Design Drawings	L50-GSP620, L50-GSP720, L50-GSP729		SCL	SCL	@SW OREGON ST, 38TH AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1388	Appendix J - Conceptual Design Drawings	L50-GSP722, L50-GSP123		SCL	SCL	@ SW ALASKA ST, SW EDMUNDS ST: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1389	Appendix J - Conceptual Design Drawings	L50-GSP1023, L50-GSP423, L50-GSP1123		SCL	SCL	@FAUNTLEROY WAY SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1390	Appendix J - Conceptual Design Drawings	L50-GSP323		SCL	SCL	@32ND AVE SW: ELEVATED STRUCTURE IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1391	Appendix J - Conceptual Design Drawings	L50-GSP523, L50-GSP524		SCL	SCL	@HOLGATE ST: PROPOSED OVERCROSSING IN CONFLICT WITH OVERHEAD WIRES	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1392	Appendix J - Conceptual Design Drawings	L50-GSP926		SCL	SCL	TPSS SOURCE MOSTLY LIKE FROM 6TH AVE S OR S BAYVIEW ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1393	Appendix J - Conceptual Design Drawings	L50-GSP126		SCL	SCL	TPSS SOURCE FROM 1ST AVE S, SOUTH OF S SPOKANE ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1394	Appendix J - Conceptual Design Drawings	L50-GSP226		SCL	SCL	TPSS SOURCE FROM 23RD AVE SW AND SW CHARLESTOWN ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1395	Appendix J - Conceptual Design Drawings	L50-GSP426		SCL	SCL	TPSS SOURCE FROM 23RD AVE SW AND SW CHARLESTOWN ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1396	Appendix J - Conceptual Design Drawings	L50-GSP626		SCL	SCL	TPSS SOURCE ON 38TH AVE SW AND SW YANCY ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1397	Appendix J - Conceptual Design Drawings	L50-GSP526		SCL	SCL	TPSS SOURCE ON SW YANCY ST	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1398	Appendix J - Conceptual Design Drawings	L50-GSP714, L50-GSP514		SCL	SCL	TPSS SOURCE FROM SW OREGON ST AND 40TH AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1399	Appendix J - Conceptual Design Drawings	L50-GSP114, L50-GSP414		SCL	SCL	TPSS SOURCE ON SW OREGON ST AND 38TH AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1400	Appendix J - Conceptual Design Drawings	L50-GSP314		SCL	SCL	TPSS SOURCE ON SW OREGON ST AND 41ST AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1401	Appendix J - Conceptual Design Drawings	Pg. 4.3.1-1		SCL	SCL	TPSS SOURCE ON 42ND AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1402	Appendix J - Conceptual Design Drawings	Pg. 4.3.1-7		SCL	SCL	TPSS SOURCE ON SW OREGON ST AND 40TH AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.

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1403	Appendix J - Conceptual Design Drawings	Pg. 4.2.15-3		SCL	SCL	TPSS SOURCE ON SW OREGON ST AND 41ST AVE SW	All (Systemwide)	This level of detail is beyond conceptual design. Sound Transit will continue to coordinate with the City of Seattle on this topic as design advances.
1404	Appendix J - Conceptual Design Drawings	Pg. 4.3.2.6		SCL	SCL	TPSS SOURCE SEATTLE BLVD S: WILL REQUIRE EXTENSIVE REWORK AND VISTA SWITCH ON PRIVATE PROPERTY AND NEW DBANKS TO CONNECT TO EXISTING SYSTEM	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1405	Appendix J - Conceptual Design Drawings	Pg. 4.3.2.6		SCL	SCL	TPSS SOURCE ON 6TH AVE S AND S CHARLES ST	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1406	Appendix J - Conceptual Design Drawings	Pg. 4.3.15-6		SCL	SCL	TPSS SOURCE ON 6TH AVE S AND AIRPORT WAY S	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1407	Acquisitions, Displacements, and Relocations	12		SCL	SCL	Impacts should also include easements/property rights for required utility relocations	All (Systemwide)	As described in Section 4.1, Acquisitions, Displacements, and Relocations, easements were not included in the EIS evaluation because easements would not require displacement of surface uses. Identifying all easements is not needed for identifying significant adverse effects or comparison of alternatives.
1408	Acquisitions, Displacements, and Relocations	12		SCL	SCL	include "permanently" before ...displace existing uses...		This text was already in the WSBLE Draft EIS. No change for West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1409	Utilities	63		SCL	SCL	This should also include "overhead" utilities		This text was already in the WSBLE Draft EIS. No change for West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1410	Land Use	66		SCL	SCL	Temporary rights over the City Light Interbay Substation will require reversion to City Light. The project will need to address project compatibility with the substation. Any permanent acquisition of the property will require a replacement site to accommodate utility system impacts		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1411	Land Use	70		SCL	SCL	Land use mitigation will be required to address impacts to the Interbay Substation		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1412	Utilities	61		SCL	SCL	Mitigation will be required to address impacts to the Interbay Substation, specifically impacts will require a replacement site and mitigation measures to address system impacts.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1413		4.2.3-6		SCL	SCL	The actual number of major utility conflicts was not corroborated with the conceptual drawings as shown on Appendix J. SCL cannot confirm that the number of conflicts with major SCL facilities identified within Table 4.15-1 is consistent with the conceptual drawings. In addition, addition system impacts of voltages less than 230 kV need to be included for further analysis in the EIS phase.	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1414	Appendix J - Conceptual Design Drawings	4.2.3-14		SCL	SCL	1. These review comments are exclusively for SCL Network. This plan also needs to be reviewed by SCL Street Lighting, SCL Communication and SCL URD engineering and Transmission engineering groups. 2. New note: This note still applies. There are existing SCL duct banks and vaults throughout the project areas that are NOT SHOWN AT ALL in the plan design drawings. Please accurately show all SCL facilities (SHOW TO SCALE). Contact Michael.Walton@Seattle.gov from the Network GIS Mapping group to provide map data that displays the horizontal location of City Light's civil infrastructure in the Downtown, South Lake Union, First Hill, and U District areas. Previously noted by SCL (02/12/2019): There are existing SCL duct banks and vaults throughout the project areas that are NOT SHOWN AT ALL in the plan design drawings. Please accurately show all SCL facilities (SHOW TO SCALE).	All (Systemwide)	Comment noted. See Appendix L4.15, Utilities, of the Final EIS for information on potential conflicts with major utilities as defined in Section 4.15, Utilities. Potential conflicts with minor utilities will be evaluated as the design progresses from conceptual design to final design. Sound Transit will continue to coordinate with utility providers regarding potential conflicts with major and minor utilities as design advances.
1415	L4.1 Potentially Affected Parcels	4.2.3-8		SCL	SCL	"...such as by loss of parking or access." Recommend deleting this statement or further qualifying; loss of access maybe a policing issue (right turn only) and would not trigger acquisition; loss of parking also may be addressed in the land use code relative to the nature of the property use.		This is an example and not meant to indicate all parcels with change in parking or access would need to be acquired. Each property is reviewed for site-specific circumstances. No change.
1416	L4.1 Potentially Affected Parcels	4.3.3-10		SCL	SCL	Temporary construction easements should be further qualified to reflect the unknowns at this stage		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1417	L4.1 Potentially Affected Parcels	4.3.3-15		SCL	SCL	The listed parcel (WS20008) is the City Light South Service Center. Any impacts to the site must be carefully mitigated as the site is severely constrained.		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1418	L4.1 Potentially Affected Parcels	5-10		SCL	SCL	Impacts to these parcels (WS20002, WS20004, WS20006) will require additional review as the design progresses.		Sound Transit will continue to coordinate with Seattle City Light regarding use of these properties as design advances, if they are affected by the project selected to be built.

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1419	L4.1 Potentially Affected Parcels	5-11		SCL	SCL	Parcel BD20020 is the City Light Interbay substation, any impacts to the site require replacement mitigation and must further mitigate system impacts		A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1420	L4.1 Potentially Affected Parcels	5-13		SCL	SCL	This statement does not align with the current understanding of Seattle's real estate market. Additional qualifiers need to be added to address the limited housing supply (Seattle/Regionally)		Information on relocation opportunities has been updated for the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1421	Utilities	5-13		SCL	SCL	Include plans for the Interbay substation together with the additional electric service to King County's Waste treatment facility	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1422	Ch 3 Transportation Environment and Consequences			Jonathan Williams	SDOT T&M	The impacts of loss of parking and loading/ADA access in certain areas (CID 5th Ave and near Seattle Center) may constitute an impact requiring mitigation to maintain local access and has not been fully detailed in the DEIS.	Downtown	Please see Section 3.6, Affected Environment and Impacts During Operation - Parking, of the Final EIS for more information on parking impacts, including effect to loading and Americans with Disabilities Act parking. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1423	Appendix G - Environmental Justice	1-3	8-9	Vera Giampietro	OPCD	Statements about impacts to low income communities and communities of color should be carefully stated to be clear and nuanced so that a broad public audience can understand their implications. Please clarify in more detail what "similarly affected" means to Sound Transit. The City's RET work and leading Racial Equity efforts clearly communicate that "equal treatment" is not equitable where communities of color or other historically harmed communities are concerned. "Similarly impacted" seems to miss that key concept.		The text referenced is from the document cited at the end of the sentence, "Environmental Justice Policy Guidance for Federal Transit Administration Recipients," published by FTA in 2012. Similarly affected means that environmental justice populations would not be disproportionately affected. The analysis notes where these populations could be disproportionately affected.
1424	Appendix G - Environmental Justice	3-15	17-23	Vera Giampietro	OPCD	If this is meant to set the context for the CID, it needs more about the relative size of the CID, the fact that if parts of it are removed they may never return, that housing affordability within the CID may be significantly diminished as an indirect impact of the project, and that there are people who come from all over the region to be in the CID as a cultural hub.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1425	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Please study the mix-and-match alternative refinements that the City has sent over to Sound Transit to date.	All (Systemwide)	Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for a description of changes to alternatives between the Draft EIS and the Final EIS, which considered input from agencies and the public. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1426	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Please study a Smith Cove alternative that avoids the "Elliott Snake" and avoids the significant impacts to the Queen Anne hillside that are created by the SIB-2 and SIB-3 alternatives.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1427	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Please study new or refined Delridge alternatives that better serve the community in terms of location and TOD potential without displacing large swathes of homes.	West Seattle (DUW, DEL, WSJ)	Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for a description of why Preferred Option DEL-6b and Alternative DEL-7 were developed for the Final EIS. Please see Section 4.1, Acquisitions, Displacements, and Relocations, of the Final EIS for more information on residential displacements.
1428	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all areas under guideways, study a variety of options for how to repurpose this space so that it benefits local communities. Example studies should include multi-use trails, green recreational space (programmed or unprogrammed), and Electric Vehicle charging stations. Please also consult the Co-Planning comments for each station for additional ideas for what to study below guideways.	All (Systemwide)	Ground plane improvements will be studied and refined during final design. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1429	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For the DEL-5 and DEL-6, study developing site plan as a transfer center. Move bus bays within the TOD site, along with waiting areas and convenience retail (if feasible) or human services. Alternatively, move bus bays to Andover, and study relocation of Nucor access point.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances. Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for a description of why Preferred Option DEL-6b and Alternative DEL-7 were developed for the Final EIS.
1430	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-5 and DEL-6, study Andover, 26th Ave and Charlestown reconstructed as low-car streets.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1431	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-1a and DEL-1b, study a vertical conveyance system that does not require a two-stage elevator journey.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.

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1432	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all stations and alternatives, study joint Equitable Transit Oriented Development to the extent necessary to achieve integrated entrances within urban fabric. We encourage Sound Transit to maximize usable floor area for affordable housing, living wage jobs, and other community-supportive uses, making the most of acquired property.	All (Systemwide)	Please see Section 4.2, Land Use, of the Final EIS for more information on TOD and Equitable TOD. A separate study on TOD has been conducted by Sound Transit and results have been incorporated into the Final EIS section. Sound Transit will promote Equitable TOD as identified by the their Equitable Transit Oriented Development Policy in 2018 (Board Resolution No. R2018-10). An additional study of TOD is being prepared by Sound Transit for the preferred alternative outside of the Final EIS process.
1433	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Alaska Junction WSJ- 3a, WSJ-4, WSJ-5. Study an additional entrance to station on the west side of 41st to provide access closer to and from the California Avenue commercial corridor .	West Seattle (DUW, DEL, WSJ)	Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for a description of changes to alternatives since publication of the Draft EIS. Preferred Option WSJ-5b was added as a refinement to Draft EIS Alternative WSJ-5 (now Alternative WSJ-5a) to shift the Alaska Junction Station entrance closer to 42nd Avenue Southwest, which is closer to the Alaska Junction.
1434	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Alaska Junction WSJ-2. Alaska/Fauntleroy intersection becomes major crossing with this alternative. For safer crossing, study additional upgrades that complement or are in line with Fauntleroy Street Improvement/Boulevard Project opportunities.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects this alternative as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances. Please see Section 3.8, Affected Environment and Impacts during Operation - Safety, of the Final EIS, which does not identify safety impacts at this intersection.
1435	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Study providing bike parking, either short or long term, at each entrance for each station alternative.	All (Systemwide)	Please see Section 2.1.2.2, Stations, of the Final EIS for information on bicycle parking at stations. Please also see Appendix J, Conceptual Design Drawings, of the Final EIS.
1436	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Study providing dual elevators at each entrance for each station alternative to provide people with limited mobility the opportunity to enter at the most convenient entrance. Dual elevators provide redundancy in the case of an elevator out of order.	All (Systemwide)	Dual elevators were considered where appropriate based on anticipated ridership at each station. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1437	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Study providing restrooms at each station alternative to provide essential human facilities as should be expected from a public facility.	All (Systemwide)	The Sound Transit Board approved Resolution 2021-15, Passenger Restroom Policy Update, in October 2021. This policy update established criteria for when restrooms should be included at stations. This policy will be applied to the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1438	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Alaska Junction WSJ-1. Study providing a grade-separated crossing for pedestrians across Alaska.	West Seattle (DUW, DEL, WSJ)	Sound Transit will continue to coordinate with the City of Seattle as design advances. Please see Section 3.8, Affected Environment and Impacts during Operation - Safety, of the Final EIS, which does not identify safety impacts at this intersection.
1439	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-5 and DEL-6. Study relocation of Nucor Steel access to minimize modal conflicts for bus, ped, bike, and drop-off and organize movement at a controlled intersection.	West Seattle (DUW, DEL, WSJ)	Sound Transit will continue to coordinate with the City of Seattle as design advances. Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS. Nucor Steel access was considered in the development of station access.
1440	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Study providing hygiene stations and restrooms within joint development at stations and alternatives in the Downtown core.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1441	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-1a and DEL-1b. Study making 25th transit, bike, and ped only, and TOD local access street. Create a bus zone at the center of the site. Reroute bus transfer off Delridge to avoid requiring pedestrians to cross major street. Study full and partial vacation of 25th.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1442	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Study all station alternatives providing 24' of sidewalk space (head house façade to curb edge) at station entrances.	All (Systemwide)	Station entrances will be designed to accommodate expected pedestrian flows and meet Americans with Disabilities Act requirements and applicable design standards at the time of permitting (such as Seattle Streets Illustrated, Standard Plans for Municipal Construction, the Seattle Land Use Code and Light Rail Facility Construction and Construction Impacts sections of the Seattle Municipal Code) or a standard agreed to by Sound Transit and the City of Seattle. Currently, Streets Illustrated requires 18 feet of sidewalk width. As described in Section 3.7, Affected Environment and Impacts During Operation - Non-motorized Facilities, of the Final EIS, Sound Transit will coordinate with the City of Seattle on specific sidewalk width requirements through the final design process.
1443	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	All DEL-1 and DEL-2 alts. Study shifting the NE station entrance south to provide additional space at north edge, and an additional 10' where bus bays are located.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.

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1444	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	All DEL-1 and DEL-2 alts. Study a mid-block pedestrian access from Delridge Way to 25th between Genessee and Dakota; align with station box to improve sightlines. Study developing a "high street" with small businesses, retail (if feasible), and uses that serve both local community and bus transfer riders.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1445	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-2a and DEL-2b. Study 26th to be reconstructed as low-car or transit "slow street" with bus bays on 26th or Dakota.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1446	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Evaluate the potential for joint or co-development of all station alternatives including the following uses: potential retail, vending, busking, and other types of culturally appropriate business activity at all station alternatives, including within the paid fare zone. This could be included in the TOD study.	All (Systemwide)	A separate study on Transit Oriented Development has been conducted by Sound Transit. Please see Section 4.2, Land Use of the Final EIS for more information on Transit Oriented Development. Joint development will be considered as design advances and Sound Transit will continue to coordinate with the City of Seattle. An additional study of Transit Oriented Development is being prepared by Sound Transit for the preferred alternative outside of the Final EIS process.
1447	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	DEL-3 and DEL-4. Study shifting station to east or west of right-of-way to lessen impact on street and improve functionality of circulation. Opportunity to use space under the guideway for additional ped, bike, and bus integration.	West Seattle (DUW, DEL, WSJ)	This refinement could potentially be studied during final design if the Sound Transit Board selects one of these alternatives as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1448	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Alaska Junction WSJ-2. Make crossing of Fauntleroy at 38th as safe as it can be; study design solutions to create safer pedestrian crossing. Explore reconfiguration of intersection to increase safety and legibility.	West Seattle (DUW, DEL, WSJ)	Sound Transit will continue to coordinate with the City of Seattle as design advances. Please see Section 3.8, Affected Environment and Impacts during Operation - Safety, of the Final EIS, which does not identify safety impacts at this intersection.
1449	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all stations and alternatives, study entrances into the station from joint development, similar to Westlake stations currently operating as Central Link.	All (Systemwide)	Joint development will be considered as design advances and Sound Transit will continue to coordinate with the City of Seattle.
1450	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	SODO-2 (214). Continue multi-use path treatment on north side of Lander through the station area. Consider a transition zone to two one-way PBLs at Sodo trail intersection (or 6th depending on safety considerations) for thru trips to destinations east of station. Look at location of bike parking and evaluate how those transition zones interact with patterns described above.	SODO/CID	This refinement could potentially be studied during final design if the Sound Transit Board selects this alternative as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1451	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	SODO-2 (214). Study diverting SODO Trail slightly to allow for larger plaza space. Consider that more space could be used to increase platform widths during interim period between Ballard and WS lines, but too much space might result in unanticipated/unsafe uses.	SODO/CID	This refinement could potentially be studied during final design if the Sound Transit Board selects this alternative as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1452	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	SODO-2 (214). Study vacating public ROW so development can be built to platform edge. Would allow TOD on both sides (east side more privately driven).	SODO/CID	This refinement could potentially be studied during final design if the Sound Transit Board selects this alternative as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1453	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	SODO-1a (215). Study pedestrian/bike easement to allow for pedestrians and cyclists to access the east side of the station from 5th Place South, which connects via S. Bayview Street to 6th Avenue South. The current SODO Trail is fenced along the east side, but if the development type changes east of the station, this connection could become desirable in the future.	SODO/CID	This refinement could potentially be studied during final design if the Sound Transit Board selects this alternative as the project to be built. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1454	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Both Midtown Alternatives. Study adding headhouse on Spring between 4th and 5th to serve First Hill.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1455	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Where space is constrained at stations, particularly along the Downtown segment, study below-grade bike parking options that provide direct connection to a station entrance.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1456	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Midtown DT-2. Study connecting the Seattle Public Library tunnel/garage to a station entrance at Midtown.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1457	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Midtown DT-2. Study streetscape improvements to Spring Street overpass to better serve First Hill.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1458	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, study including a mezzanine or other means of moving over tracks so that a rider is not required to go a significant distance away from a given station entrance. An example is the SODO-1a station, which should include an option to cross over the tracks near a given station entrance, particularly the north entrance, so that a rider doesn't have to circumnavigate city blocks simply to go in the other direction on the light rail system. If a rider misses their stop, they should be able to re-board in the opposite direction without going a great distance.	All (Systemwide)	Please see Appendix J, Conceptual Design Drawings, of the Final EIS. Sound Transit will continue to coordinate with the City of Seattle as design advances. See Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS, for more information on station access refinements for the preferred alternative.
1459	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Both Westlake Alts. Study upgrading existing Central Link entrances to the same level of design standards and identity as new entrances.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1460	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, study the feasibility of entrances (doorways) from each face of an entrance headhouse for better visual and physical access to the station.	All (Systemwide)	Direct sightlines to station entrances and other passenger experience components are being studied as part of preliminary engineering work. Station design will be advanced during final design. Sound Transit will continue to coordinate with the City of Seattle as design advances.

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1461	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, study the feasibility of providing entrances to headhouses at building and block corners wherever possible for better visual and physical access to the station.	All (Systemwide)	Direct sightlines to station entrances and other passenger experience components are being studied as part of preliminary engineering work. Station design will be advanced during final design. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1462	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, move venting and other non-active uses away from building facades.	All (Systemwide)	Please see Appendix J, Conceptual Design Drawings, of the Final EIS. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1463	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study adding an entrance in Whole Foods plaza due to high volume of pedestrian traffic at this location as well as potential for better connection to adjacent land uses and high-quality public spaces per TOD policy 2.4.1.b	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1464	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study adding an entrance on the NW corner of Denny and Westlake, at the site of the Discovery Center for better connection to adjacent land uses and high-quality public spaces per TOD policy 2.4.1.b.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1465	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study closing 9th Ave between Denny and Westlake to vehicles to create additional public realm space.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1466	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study making Blanchard a transit- and local access only street.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1467	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study transit-only on Westlake from 8th to Denny (especially if cut and cover).	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1468	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study creating an improved ped environment along Westlake by widening sidewalks. Options may include moving streetcar tracks (if cut and cover) and/or reallocating flex zone.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1469	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-1. Study adding a bike connection to 9th Ave bike facilities - potentially along Denny to station.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1470	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-2. Study adding an entrance on south side of Denny, potentially at the Westlake Triangle (between 9th, Denny, Westlake), which is a preferred location for good transit integration.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1471	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Denny DT-2. Study adding an entrance on the north side of the site at Thomas St.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1472	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, study escalators existing at grade facing station entrance.	All (Systemwide)	Direct sightlines between escalators and station entrances and other passenger experience components are being studied as part of preliminary engineering work. Station design will be advanced during final design. Sound Transit will continue to coordinate with the City of Seattle as design advances.
1473	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	South Lake Union DT-1. Study an entry to the station environment from Thomas, helping emphasize this entrance for Seattle Center access. Thomas is a priority pedestrian corridor and links up to the front door of the arena. Extend the yellow gradient down to Thomas and wrap it to the west to emphasize that it's part of the public realm. Furthermore the entrance to the head house could move further south (the pink arrow).	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1474	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	South Lake Union DT-1. Study relocating venting at north headhouse away from street edge.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1475	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	South Lake Union DT-2. Study adding an entrance on east side of 99/Aurora; challenging for peds to cross.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1476	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Seattle Center 5th Avenue / Harrison Street (DT-1). Study a pedestrian prioritized street (like Bell Street) on Republican from Queen Anne Avenue to Seattle Center and on Warren Avenue between Republican and Mercer with emphasis on pedestrian and bike movements with traffic calming for vehicle access. Need to include load/unload for Seattle Center, but do not want PUDO on these streets. Study this concept also to Warren between Republican and Mercer.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1477	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	All Seattle Center Alternatives. Study Protected Bike Lanes on Mercer.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1478	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Smith Cove Elevated at Galer (SIB-1). Study creating a bike trail along the BNSF rail and under the new guideway through the Armory property to bring cyclists down Garfield to the station plaza without mixing with the bus layover.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1479	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Smith Cove Elevated at Galer (SIB-1). Study enhancing the Galer structure with pedestrian, ADA, and bike friendly crossing over both BNSF and Elliott Way. Study tying in the Galer flyover with station mezzanine. Ensure the crossing is ADA accessible and comfortable for cyclists.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1480	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Smith Cove All Prospect Alts (SIB-2 and 3). Study extending the Helix bridge over Elliott so people can cross safely and not have to go down to grade first.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1481	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay All IBB alternatives. Study connecting Nickerson to Emerson to Thorndyke.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1482	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay All IBB alternatives. Study reconfiguring north end to make connections to SPU, Fisherman's Terminal, and other destinations. Consider a grade-separated solution.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1483	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay IBB-1a and 2a/b. Study an elevated crossing of 15th Ave at Bertona St.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1484	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay All IBB alternatives. Study design solutions that improve congestion conditions along Dravus St bridges while allowing for more uses in the ROW, such as a bike lane. Study removing parking lane.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1485	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay All IBB alternatives. Consider improving sidewalks on 15th to create a multiuse trail, and building another pedestrian bridge over 15th to add another connection to the station. The additional pedestrian/bike bridge could align with Bertona providing an uphill connection to Queen Anne to the east.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1486	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay IBB-3 (211). Study one-way PBLs on either side of 15th Ave.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1487	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Interbay IBB-3 (211). Study incorporating public crossing across 15th with fare paid on mezzanine in lieu of rebuilding or improving Dravus St bridge.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1488	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Ballard 14th Alts (All). Study a PBL on 14th Ave NW.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1489	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	For all station alternatives, study allowing public access to elevated or below grade arterial crossings, not including them in the fare paid zone.	All (Systemwide)	Please see Appendix J, Conceptual Design Drawings, of the Final EIS for conceptual station plans. Station access refinements could potentially be studied during final design. Sound Transit will continue to coordinate with the City of Seattle as design advances. Fair paid zones will be developed in final design and will be determined based on Sound Transit security and maintenance policy.
1490	Ch 2 Alternatives Considered			Vera Giampietro	OPCD	Ballard 14th Alts (All). Study turning 14th Ave NW into a great pedestrian/bike street as a good complement to 15th Ave NW, which is geared towards freight, buses, and vehicle mobility and is a rough place for pedestrians.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1491	Executive Summary	ES-7	16-18	Vera Giampietro	OPCD	Throughout the document please include cross references to concepts introduced, particularly in the Executive Summary, so that it is easy for a reader to find information about key milestones across the project. An example is in ES.3 Alternatives Considered, there are many references to key project phases (scoping, Alternatives Development, etc.) with no direction to the reader on how to understand those more clearly.	All (Systemwide)	Sound Transit prepared an online readers guide for the WSBL Draft EIS to help people navigate the document and find more information. The Executive Summary is intended to be brief and present an overview of the Project including a summary of the alternatives development process, a brief description of the alternatives, the key environmental impacts of the alternatives, and mitigation measures. The main body of the Final EIS contains detailed information.
1492	Executive Summary			Vera Giampietro	OPCD	Please add a diagram or a reference to a diagram in the Executive Summary that shows how Central Link operations will change when the WSBL project is complete. This key impact to community members is not clearly articulated within the Executive Summary.	All (Systemwide)	The Executive Summary is intended to be brief and present an overview of the Project including a summary of the alternatives development process, a brief description of the alternatives, the key environmental impacts of the alternatives, and mitigation measures. Please see Exhibit ES-3 in the Executive Summary of the Final EIS for a diagram of how light rail operations will change with the full build out of both the West Seattle Link Extension and the Ballard Link Extension. This figure was Exhibit ES-2 in the WSBL Draft EIS Executive Summary. A description of these transfers is provided in Section 3.1.1 of the Executive Summary for both the WSBL Draft EIS and West Seattle Link Extension Final EIS. A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1493	Executive Summary	ES-9	13	Vera Giampietro	OPCD	Introduce the concept of the MOS within ES.3 or ES.3.1, and not where it currently is, in ES.3.1.1. The placement of a new alternative concept within an individual segment is not intuitive and may create confusion for a broad public audience. In general, please present information within the document in a more consistent fashion, such that the hierarchy of information is more intuitive. E.g. introduce the MOS concept alongside the Build Alternatives.	All (Systemwide)	Please see Section 2.4, Minimum Operable Segment, of the Final EIS for the description of the M.O.S. The M.O.S. is described in Section ES.3, Alternatives Considered, and Section ES.3.1, Build Alternatives, as appropriate.
1494	Executive Summary	ES-15	Table ES-2	Vera Giampietro	OPCD	For all of the Key Environmental Impacts tables within the Executive Summary, include cross references to the types of impacts described, showing the reader where to find more information about individual impact line items. E.g. it is not intuitive to a general reader to understand what "intersections impacted" means.	All (Systemwide)	See response to comment 1491.
1495	Executive Summary	ES-15	Table ES-2	Vera Giampietro	OPCD	Add to the Key Environmental Impacts tables for all Ballard Link stations and alternatives the changes to service for all Central Link riders, i.e. communicate that anyone who currently travels between SE Seattle and UW will need to transfer downtown to make that same trip once the project is complete.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1496	Executive Summary	ES-28	Table ES-7	Vera Giampietro	OPCD	Please include a definition of what a "hi-rail access road" is. If this is further defined within the DEIS document, please include a cross reference to that definition and visual representation of what this is. If it is not further defined and visualized within the document, please add such a definition and visual representation to the DEIS.	All (Systemwide)	The Executive Summary is intended to be brief and present an overview of the Project including a summary of the alternatives development process, a brief description of the alternatives, the key environmental impacts of the alternatives, and mitigation measures. The main body of the Final EIS contains detailed information. Please see Section 2.1, Build Alternatives, of the Final EIS for a definition of high-rail access road.
1497	Executive Summary	ES-35		Vera Giampietro	OPCD	Please note early within ES.3.1.2 the proposed change to Central Link operations, i.e. communicate that anyone who currently travels between SE Seattle and UW will need to transfer downtown to make that same trip once the project is complete.	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1498	Executive Summary	ES-36	Table ES-9	Vera Giampietro	OPCD	Study connecting CID-1a to the Massachusetts Tunnel Portal that serves all other CID alternatives. If the two cannot connect, please explain within the DEIS why they cannot connect, or in other words, describe the constraints that prevent them from connecting.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1499	Executive Summary	ES-38	16-32	Vera Giampietro	OPCD	The discussion here about displacements within the CID without mention of the distinct sensitivity to cultural displacement needs to be improved upon. Please include a discussion of the displacement consequences of culturally unique and sensitive businesses within the CID. Cultural displacement is discussed within the project RET, and can easily be referenced here. Also note that on page ES-58 for the Ballard Segment, specific businesses are named for impacts, whereas for the CID no businesses are named. Please apply the same/similar approach to stations/segments across the alignment. Consider taking a more general approach to the discussion of displacement impacts in the ES and cross-reference the reader to appropriate DEIS chapters for more specific discussion of the analysis of impacts to each segment.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1500	Executive Summary	ES-38	29-32	Vera Giampietro	OPCD	This series of statements feels misleading, as it brings in a qualitative, subjective, un-cited assessment that is not an actual EIS finding. Please remove or recharacterize for consistency with the RET. "Alternative CID-2a and its design option, Option CID-2, would be more integrated into the CID... but would also provide the benefit of better access to transit options."	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1501	Executive Summary	ES-40	11-13	Vera Giampietro	OPCD	Please note the language used in these lines seems to be inconsistently applied. "Impacting community mobility" vs "inconveniencing access between the existing CID station and the CID community" (paraphrased). These are subjective assessments that may not be consistent with the RET, particularly given that the streetcar does not seem to be a primary mode of movement between the CID and Pioneer Square. Please consult the RET and RET LT (including City staff) and relate to RET outcomes identified for the CID in particular.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1502	Executive Summary	ES-40	23-24	Vera Giampietro	OPCD	Please add a reference to the impacts on culturally unique businesses in the area.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1503	Executive Summary	ES-40	30	Vera Giampietro	OPCD	Study beginning construction on CID-1a during the West Seattle segment construction process. If that is already part of the project plan, please clarify how "an additional 2 to 5 years" of construction for this segment would impact project delivery. If it is still possible to deliver the project on time please state that.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1504	Executive Summary	ES-54	9-10	Vera Giampietro	OPCD	Please clarify what this phrase actually means so the public is clear on the implications: "A tunnel in the Interbay/Ballard Segment was not included in the Sound Transit 3 Plan; therefore, third-party funding would be required for the tunnel alternative." The way it sounds is that a tunnel requires 3PF regardless of whether the tunnel is actually cheaper than an elevated alignment. Is that so? Either way, please clarify for ease of public understanding.	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1505	Executive Summary	ES-62		Vera Giampietro	OPCD	Please include within the Executive Summary a high level statement about the potential impacts of bus rerouting around the new light rail stations. It is mentioned within the Executive Summary (e.g. page ES-38 lines 28 & 29, "...although Many regional routes would no longer be operating because they would be replaced with light rail service.")	All (Systemwide)	The Executive Summary is intended to be brief and present an overview of the Project including a summary of the alternatives development process, a brief description of the alternatives, the key environmental impacts of the alternatives, and mitigation measures. Please see Section 3.4, Affected Environment and Impacts during Operation - Transit, for a discussion of transit impacts and mitigation measures. The West Seattle Link Extension is planned for in local and regional transportation plans and the replacement of bus routes with light rail service is not considered an impact.
1506	Executive Summary	ES-64		Vera Giampietro	OPCD	For section ES.5, please include discussion of impacts in the CID. In general the document demonstrates greater sensitivity to visual impacts on high value residences (e.g. Queen Anne) than to a culturally unique community with disproportionately high numbers of low-income community members of color (CID). The potential for cultural displacement within the CID catalyzed by this project is not insignificant, particularly with alternatives CID-2a and 2b, and will be very difficult to fully mitigate. Note that "visual impacts to water recreationists using Salmon Bay" are elevated here, but that livelihoods, cultural cohesion, and the future of a regionally and historically unique cultural center is not elevated. This is not consistent with the project RET nor with the City-ST partnership on our commitment to Race and Social Justice for the WSBLE project. I recommend that the RET LT at the very least bring in community narratives within the CID on how CID-2a and 2b may impact the future of the CID. Please demonstrate how voices of CID community members are coming through in this document.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1507	Executive Summary	ES-65	31-33	Vera Giampietro	OPCD	Please re-route discussion of disproportionate impacts to EJ communities through the RET LT prior to making statements such as this. There is not enough data presented here to substantiate this claim.	SODO/CID	Please see Appendix G, Environmental Justice, of the Final EIS for updates to this analysis for the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1508	Executive Summary	ES-65	ES.6.2	Vera Giampietro	OPCD	Please include discussion of indirect displacement and cultural displacement as described in previous RET reports.	SODO/CID	Please see Appendix G, Environmental Justice, of the Final EIS for updates to this analysis for the West Seattle Link Extension. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1509	Executive Summary	ES-68		Vera Giampietro	OPCD	Please add to "Areas of Controversy..." CID Preferred Alternative (none yet selected), CID Displacements, and the SODO Busway.	SODO/CID	Sound Transit has been working with Metro on changes to their service based on acquisition of the SODO Busway, and with both Metro and the City on potential mitigation. Closure of the busway has not been identified as an Area of Controversy. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1510	Land Use	4.3.2-3	3	Vera Giampietro	OPCD	Throughout the document, but as shown by example in the Land Use section, please use more complete citations for City documents, and documents in general. A broad public audience needs to be able to understand what documents are being referenced. Please include the name of the document and a link to it in the citation.	All (Systemwide)	An extensive reference list is provided in Appendix A, and documents are cited in the main body as appropriate.

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1511	Land Use	4.3.2-11	35-42	Vera Giampietro	OPCD	In general, make more use of Sound Transit's 2018 ETOD policy statements within the TOD sections of each segment's Land Use impacts discussion. In other words, include these statements in the EIS for reference. There is some potential conflict between statements as presented on page 4.3.2-11 under TOD Development Potential by Alternative, where more development potential is presented as being more desirable than less. ST's 2018 ETOD policy explicitly states that "Sound Transit commits to TOD analysis and measures early in system planning and throughout transit project delivery. Sound Transit: Identifies and pursues strategies that minimize displacement of existing businesses and individuals from properties impacted by Sound Transit." (Resolution No. R2018-10, Equitable Transit Oriented Development Policy, Section 2.4 Integrated Project Delivery Approach).	All (Systemwide)	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1512	Executive Summary	ES62		Benjamin Hansen	SDOT	Should tunneling be used along the light rail line, it has the potential to lead to settlement above the tunnel. The potential need to stabilize and restore settled streets should be captured in the EIS.		The Executive Summary presents a summary of the key environmental impacts of the alternatives. Please see Section 4.11, Geology and Soils, of the Final EIS for information on the potential for soil settlement with the project.
1513	Executive Summary	ES62		Benjamin Hansen	SDOT	Heavy vehicle traffic, trucks and buses, are the principal cause of structural pavement deterioration. https://pavementinteractive.org/reference-desk/design/design-parameters/loads/ https://pavementinteractive.org/reference-desk/design/design-parameters/trucks-and-buses/ https://pavementinteractive.org/reference-desk/design/design-parameters/equivalent-single-axle-load/ The Sound Transit construction, especially where it includes tunneling and trucking of spoils, will generate large volumes of heavy truck traffic to and from construction sites that will accelerate the deterioration of City streets. The EIS should call for mitigation of these impacts. Haul routes should be designated and truck traffic should be kept on those streets throughout construction. A pavement study of the haul routes should be undertaken (by a qualified pavement engineering consultant) that quantifies the truck traffic that will be generated to and from the Sound Transit construction sites and then estimates the reduction in structural life that will occur along the haul routes. A mitigation plan to address the pavement deterioration (restoration, compensation for loss of useful life, etc.) should be developed so that the City is not left with a costly backlog of deteriorated major arterials at the close of construction.		The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on mitigation of construction impacts. Site-specific improvements and mitigation to roadways will be determined through coordination with the City during final design and permitting. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1514	Executive Summary	ES62		Benjamin Hansen	SDOT	Light rail construction will prompt the re-route of bus traffic to stations to feed the new high capacity line and an increase in transit service along those streets. The pavement restoration of streets around light rail stations (discussed in comment 1515) should be to a standard that can support bus traffic long term. Typically, that would mean concrete pavement at a design depth based on the projected bus loading.		Added text to Section 4.4.2 of Appendix N.1, Transportation Technical Report, that Sound Transit would coordinate with agencies during construction and would include pavement restoration as appropriate.
1515	Executive Summary	ES62		Benjamin Hansen	SDOT	From experience with other Sound Transit work (Northgate as the most recent example), we know that truck traffic, equipment operations, and storage movement of materials will lead to pavement deterioration at light rail stations and at construction hubs along the route alignment. The project needs to recognize these impacts in the EIS and specify pavement restoration at the that will mitigate the impact of the construction activity.		See response to comment 1513.
1516	Executive Summary	ES62		Emily Burns	SDOT	Perform bike route and walkshed analysis around light rail stations to determine multi-modal, ADA accessibility impacts using sidewalk, curb ramp, and roadway conditions, type, and size. Future mitigation shall include improvement of the sidewalk, curb ramp, and roadway infrastructure to support access to the stations.	All (Systemwide)	See response to comment 1513.
1517	Executive Summary	ES62		Emily Burns	SDOT	In alignment with comment 1515 above, a mitigation plan to protect the city's infrastructure assets should be developed .		See response to comment 1513.
1518	Ch 3 Transportation	3-1		Emily Burns	SDOT	Add bullet: Transportation asset protection	All (Systemwide)	The Executive Summary presents a summary of the key environmental impacts and mitigation measures for the alternatives. Please see Section 3.11, Construction Impacts, of the Final EIS for more information on mitigation of construction impacts.
1519	Ch 3 Transportation	3-2		Emily Burns	SDOT	How was the statement "WSBLE stations are surrounded by an accessible pedestrian and bicycle network." validated? Condition, widths within the screenline? See in 3-36 that all sidewalks w/in 1 block of the station are deemed sufficient. Is that an acceptable range and what is the criterion to determine sufficiency?	West Seattle (DUW, DEL, WSJ)	The WSBL Draft EIS stated: "The WSBL stations are located in neighborhoods with generally well-connected pedestrian and bicycle networks, though there are some gaps as well as existing facilities not meeting Americans with Disabilities Act or the City's Seattle Streets Illustrated standards." The one-block range is consistent with the Transportation Technical Analysis Methodology for this project. The West Seattle Link Extension Final EIS (Appendix N.1, Section 6.2) has been updated with additional information and maps about the condition of the pedestrian network around the stations. Existing sidewalks, trails, marked crosswalks, and curb ramps were inventoried within the 10-minute station walksheds. For the one-block radii around preferred alternative stations, the general condition of the sidewalks and curb ramps was noted, with each side of the blockface and curb ramp qualitatively rated as "good," "needs improvement," or "missing." This assessment was based on completeness of the sidewalk along the blockface, pavement condition, and width, and was informed by City of Seattle Geographic Information System data as well as field observations.
1520	Executive Summary	NA		Emily Burns	SDOT	Develop interactive web map of the city's infrastructure with the route alternative layers so that the Department representatives can validate infrastructure impacts and sufficiency statements. Use the SDOT Assets Map as a base.	All (Systemwide)	Sound Transit has coordinated with the City on impacts to city facilities and infrastructure as design has progressed, and this coordination will continue through final design, permitting, and construction.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1521	Appendix H - Section4(f) Evaluation	1-4	Section 1	Delia Tyrrell	Seattle Center	Tunneling below or adjacent to Seattle Center in both DT-1 and DT-2 has potential to cause permanent noise and vibration impacts to public events, performances, and programming that are integral to Seattle Center's mission and the operations that support its 4(f) status. Per the City's comments on the Noise and Vibration Technical Report, the DEIS is missing information about construction and operational noise and vibration impacts of DT-1 to Seattle Repertory Theater, Cornish Playhouse, KEXP, SIFF, The Vera Project, A/NT Gallery, MoPOP, Memorial Stadium, and Climate Pledge Arena. DT-2 is missing information about the full extent of temporary and operational noise and vibration impacts to Seattle Rep, the Phelps Center, Seattle Opera, Classical King-FM, McCaw Hall, Cornish Playhouse, and KCTS.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1522	Appendix H - Section4(f) Evaluation	4-41	Section 4.2	Delia Tyrrell	Seattle Center	DEIS incorrectly states that visual changes to Seattle Center campus proposed as a part of the DT-1 station would not adversely affect the features, attributes, or activities qualifying the property for protection under Section 4(f). The proposed entrance location would hinder the use of the Theater Commons, which is a primary gathering place and pedestrian and event access point. The entrance would block views from and to Seattle Rep and displace portions of the campus used to hold events and gather people. The events, recreation, and gathering functions are activities that qualify this property for protection under Section 4(f). The proposed DT-1 station entrance would therefore create significant adverse visual impacts to Seattle Center. The use of the property under the DT-1 alternative is not de minimis, and a prudent and reasonable avoidance alternative must be sought.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1523	Appendix H - Section4(f) Evaluation	4-41	Section 4.2	Delia Tyrrell	Seattle Center	DT-1 project construction would temporarily close 1.5 acres of Seattle Center property. The DEIS incorrectly determines that the attributes that qualify this resource for protection under Section 4(f) would not be adversely impacted during project construction. The 1.5 acre portion of Seattle Center campus that is proposed to be temporarily used for construction is essential to operating campus-wide events, providing equitable and ADA access to campus, providing emergency and fire access for campus arts and cultural venues. It is used for annual campus-wide events including Bumbershoot and Northwest Folklife, described in EXHIBIT SC-1. Displacement of these functions during the 5-7 years of construction of the DT-1 Seattle Center station alternative will result in civic loss and economic loss which, though temporary, is of a long enough duration to cause prolonged or permanent effects. This is a significant adverse impact.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1524	Appendix H - Section4(f) Evaluation	4-42	Section 4.2	Delia Tyrrell	Seattle Center	The information necessary to identify impacts and compare alternatives is missing. There is not sufficient mitigation described for noise and vibration impacts to venues adjacent to the construction footprint including the Northwest Rooms and Cornish Playhouse (DT-1) and Seattle Rep (DT-1 and DT-2). These venues house core business functions that are sensitive to noise and vibration from the DT-1 construction noise and vibration impacts. We cannot analyze the impacts of construction fully without more details of proposed mitigation. Successful temporary relocation of these tenants during construction, which is mentioned in the DEIS as a potential mitigation, will be extremely challenging because the venues are purpose-built and highly specialized for live performance, film, and recording activities. The DEIS does not contain sufficient information to show how this could be achieved without causing permanent harm to the organizations.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1525	Appendix H - Section4(f) Evaluation	4-42	Section 4.2	Delia Tyrrell	Seattle Center	The DEIS incorrectly states that Seattle Center events and activities will be able to continue during construction. Construction and staging access impacts on Seattle Center property, noise and vibration, visual impacts, dust and debris, transportation impacts on nearby streets, and displacement of curbside loading areas will displace and disrupt large portions of events that rely on unobstructed access and availability of these campus open spaces for maintenance, production, performers, gathering, and revenue-generating uses. The DEIS is missing descriptions of mitigation to address these significant impacts. With mitigation campus events may be able to continue in a diminished form, but not without adverse impacts.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1526	Appendix H - Section4(f) Evaluation	4-42	Section 4.2	Delia Tyrrell	Seattle Center	The DEIS lacks detailed analysis of campus impacts and a detailed analysis of the mitigation needed to address these impacts. The City cannot concur with the determination of de minimis, and a prudent and feasible avoidance alternative must be sought.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1527	Ch 4 Affected Environment and Environmental Consequences	4.3.5-2	4.3.5.1.2	Sarah Sodt	DON	The City of Seattle has a community garden program. P-Patches or community gardens are publicly owned spaces where neighbors come together to grow community and plan, plant, and maintain a piece of open space. There are three P-Patches along the alignment that may be impacted by the project: Interbay, Seattle Center Up Garden, and Cascade. We believe some of the P-Patches may qualify for protection under Section 4(f) given that some P-Patches are located on Parks property. It is unclear if the P-Patches have been considered in terms of impacts. A map showing locations of P-Patches is available at this webpage https://www.seattle.gov/neighborhoods/programs-and-services/p-patch-community-gardening/p-patch-map	Interbay-Ballard	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1528	Technical Report: Noise and Vibration	6-51	Table 6-13	Seattle Center	Seattle Center	The DEIS is missing the following outdoor use areas at Seattle Center in its table of sensitive receivers. These venues are considered sensitive outdoor receivers that may be impacted by airborne noise during construction of either DT-1 or DT-2. These spaces are classified as FTA Category 1 noise-sensitive receivers. FTA defines Category 1 receivers as "Land where quiet is an essential element of its intended purpose." International Fountain Lawn, used for events and accessible year-round for public enjoyment of open space and the choreographed musical fountain Theater Commons, used for festivals and events, as a gathering space and entrance to the campus International Plaza, used for outdoor performances, festivals, and public recreation (also known as the Northwest Courtyards) Fisher Lawn, used for events including speeches and outdoor concerns Founders Court, used for events and quiet public enjoyment Kreielsheimer Promenade, used for events and quiet public enjoyment Mural Amphitheater, used for concerts and screening of outdoor films More detailed information can be found in Exhibit SC-3 attached to the City's comments.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

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1529	Social Resources, Community Facilities, and Neighborhoods	5-48		Nicole Kistler	DON	Only Seattle Goodwill Outlet is specifically mentioned. Other organizations like Chong Wa Benevolent Association and The Wing Luke aren't named, and impacts related to construction are only considered. Business displacements are also in that section but not tied to success of organizations. The cultural ecosystem of the community as a whole is not considered. Additionally, there is little to no consideration of Native American cultural resources or properties in this section.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1530	L4.14 Public Services, Safety, and Security	5-61		Nicole Kistler	DON	Impacts to the Indian Health Board are characterized as positive because of increased transit once the project is complete, but no other impacts are considered nor is transit proven to be a positive impact to this community. What is this characterization based upon?	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1531					SDOT	DT-2--South Lake Union Station at Mercer St--is isolated from nearby inter-modal connections, vs DT-1 at Harrison St, which is perfectly oriented. Adjust DT-2 design and/or associated alternative weighting.	Downtown	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1532					SDOT	Many Delridge Station options would require bus service to deviate from Delridge Way and affect operations on Delridge and adjacent streets; deviations must be identified now and throughout station planning and design, not deferred.	West Seattle (DUW, DEL, WSJ)	Text has been added to Section 4.7, Noise and Vibration, and Appendix N.3, Noise and Vibration Technical Report, of the Final EIS regarding noise analysis for bus operations.
1533					SDOT	Some alternatives show sub-optimal multi-modal access and bus integration that will add costs, reduce ridership, and reduce safety. Sound Transit must work with the City and King County Metro to successfully address these issues now and throughout project planning and design. Design modifications may include changes to station entrance siting, vertical circulation, and improvements to surface transportation integration.	All (Systemwide)	Sound Transit has continued to coordinate with the City as design advances. Please see response to CC3a in Table 7-1 in Chapter 7 of the Final EIS.
1534	L4.1 Acquisitions, Displacements, and Relocations			Sandra Gurkewitz	SDOT	We have numerous concerns that if not addressed may result in additional analysis and mitigation at the time of permitting, pursuant to City's substantive SEPA authority (WAC 197-11-660 and SMC 25.05.660)	All (Systemwide)	Comment noted.
1535	Appendix H - Section4(f) Evaluation	3-88	3-6	Sandra Gurkewitz	SDOT	The DEIS states that Sound Transit will prepare a Least Harm Analysis to be included in the FEIS: "Following public review of and comment on the DEIS and the potential impacts of proposed alternatives, which includes this Section 4(f) evaluation; continued consultation with officials having jurisdiction on the proposed de minimis findings after public comment is received; and consultation regarding adverse effects on historic resources with the State Historic Preservation Office and consulting parties." Waiting to complete a Least Harm Analysis until the FEIS does not allow the City or the public to compare alternatives or provide comments. For 4(f) properties with adverse impacts, the City requests a 4(f) and least harm analysis be completed.	All (Systemwide)	The Final Section 4(f) Evaluation in the Final EIS includes the least harm analysis. The least harm analysis was informed by public comment and continued consultation. The City of Seattle, as an agency with jurisdiction, has 45 days to review the Final Section 4(f) Evaluation following publication.
1536	Appendix H - Section4(f) Evaluation	4-109	4-6	Sandra Gurkewitz	SDOT	The DEIS states that Sound Transit will prepare a Least Harm Analysis to be included in the FEIS: "Following public review of and comment on the DEIS and the potential impacts of proposed alternatives, which includes this Section 4(f) evaluation; continued consultation with officials having jurisdiction on the proposed de minimis findings after public comment is received; and consultation regarding adverse effects on historic resources with the State Historic Preservation Office and consulting parties." Waiting to complete a Least Harm Analysis until the FEIS does not allow the City or the public to compare alternatives or provide comments. For 4(f) properties with adverse impacts, the City requests a 4(f) and least harm analysis be completed.	All (Systemwide)	See response to comment 1535.
1537	Appendix G - Environmental Justice	2.3	2.2	Nicole Kistler	DON	The City challenges the assumption that people living within ½ mile will be most affected. For instance, in Delridge, Sound Transit accurately notes that the RET priority communities live South of the station alternatives. Demographic information should be used to support a coherent narrative and integrated with what Sound Transit has heard from community. Demographic data should include types of occupations, data about average numbers of children, elderly living with families or more information about people with disabilities to confirm or deny community-based narratives. The City needs more information to know how impacts will affect people in neighborhoods. For instance, "Do they mainly drive to work or take transit? When? Are they traveling with children? How will a new transfer environment impact them?" In another example, the DEIS does not provide a description of the regional communities of color in who rely on Chinatown-International District as a regional cultural hub. These communities are far-reaching and no demographics analysis was completed to understand and quantify the impact to those cultural groups. Sound Transit will need to account for and quantify the loss of a cultural hub for an entire set of regional communities.	All (Systemwide)	Appendix G, Environmental Justice, addresses how communities to the south would access light rail, including travel time savings that account for the transfer time. Since publication of the Draft EIS, Sound Transit has continued to work with the City and Metro to enhance the transfer environment and access at the Delridge station. The suggested level of demographic detail is not necessary for identifying potential impacts or benefits. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1538	Appendix G - Environmental Justice	3-1	3	Nicole Kistler	DON	The demographics section is an outline of many pieces of information and is difficult to wade through for experts in population geography let alone the lay person. It provides little analysis in way of providing a real story about the most underserved populations. Sound Transit should use demographic information as one piece of information to truth-check stories of experience that community members share through engagement so that Sound Transit can then understand how different communities and individuals will experience impacts. Currently, the stories or assumptions underpinning the demographics work are hidden and need transparency in the DEIS. Many conclusions in the document do not match what the City has heard from community members and in the City's work with community.	All (Systemwide)	The demographics information is standard for an Environmental Justice analysis and is one component of the analysis. See Section 4 of Appendix G, Environmental Justice, and Attachment G.1 of this appendix for more information on community outreach conducted. A response to this comment relative to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1539	Appendix G - Environmental Justice	4-1	4	Nicole Kistler	DON	This section details the outreach Sound Transit conducted to support the project. In some sections like 4.4.2.1 Community Engagement Event Summary, Sound Transit does not indicate or summarize what community said during the outreach event. In other places like 4.4.1.2 Delridge Community Workshop or 4.4.1.4 Themes from Community Engagement a summary is provided, but there is no indication of how engineering and planning adapted or made refinements based on community feedback. The City needs to see both the summary of community feedback and how Sound Transit integrated that feedback into the project for transparency and accountability.	All (Systemwide)	Section 4 of Appendix G, Environmental Justice, of the Final EIS references Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, which provides additional information on community engagement activities. See Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS, for information on alternative refinements studied in the Final EIS that were a result of public input.
1540	Appendix G - Environmental Justice	5-1	5	Nicole Kistler	DON	There is not specific information about how mitigation will be coordinated with community—mitigation plans should come from community not just be informed by community. It is not possible to know what will sustain businesses or neighborhoods without their active participation in the process.	All (Systemwide)	Mitigation is presented in the Final EIS for identified impacts. Mitigation may be informed by community input, as appropriate.

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1541	Appendix G - Environmental Justice	5-30 and 5-43	5	Nicole Kistler	DON	On page 5-30, Sound Transit correctly notes the negative cumulative impacts of transportation projects to the Chinatown-International District, however in the tables there is incomplete assessment of impacts and assessment of impacts for minority and low-income populations related to these cumulative impacts. The District has endured major transportation and infrastructure impacts that have squeezed the geographic boundaries of the neighborhood to become smaller and smaller. City staff noted other places in the document that incorrectly characterized these impacts, for instance, Sound Transit refers to the properties impacted by the 5th Avenue station alternatives as "on the edge of the neighborhood." In fact, this is the historic heart of the neighborhood. Impacts to this portion of the neighborhood have not adequately been studied and should include a triple bottom line approach to weighing financial impacts that considers social, economic and environmental factors. Community members at Community Advisory Group Meetings and CID/Pioneer Square Workshops with Sound Transit have repeatedly raised the issue that the 5th Avenue Station alternatives would squeeze the neighborhood past a tipping point where the neighborhood would no longer function as a cultural hub. This result would occur because its businesses and cultural organizations would be eroded to the point of only being tokens to Asian culture in the Chinatown-International District. Community members have pointed to the fact that authenticity arises from Asian languages actively being spoken in Asian-owned businesses that support Asian cultural organizations. Therefore, Sound Transit needs to consider the cumulative effects that its project will have on the Chinatown-International District and the cumulative effects of racist policies in transportation and land use planning across the alignment and collaborate with community in the processes to plan for and mitigate impacts from the project.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1542	Appendix G - Environmental Justice	5-43	5	Nicole Kistler	DON	Assessment of impacts and assessment of impacts for minority and low-income populations are incomplete for Chinatown-International District, and assessments of need for potential mitigation also need further study and engagement with community. There has not been adequate economic analysis or mitigation planning with community to make displacement of any businesses or residents acceptable. There should be a mitigation plan for each neighborhood impacted by the project that should be crafted in collaboration with community. The economic analysis should consider the impact that a move would have on each business both temporarily and permanently including all opportunity costs, costs not only related to interruption of business but time leading up to that and a number of years after that reflect the true time and costs required to build that business, while also taking unforeseen barriers into account. In addition to the businesses that would be directly relocated or displaced, how are the economic costs to the neighborhood as a whole being considered? These costs have not been considered in the DEIS and should be for both community and decision makers to have transparency and to make decisions. Construction impacts as detailed in the DEIS represent some of the most significant construction impacts Seattle has experienced in the 1900s. Businesses will experience lost revenue during construction as well as the time to build and regain customers after construction is complete. In Chinatown-International District, Sound Transit does not account costs associated with the erosion of the core base of businesses, business mass, that as a whole provides an anchor or attraction as a group of businesses that helps to maintain the customer base for each individual business. The value of the businesses together is greater than each one independently and should be calculated with this focus in the DEIS analysis.	SODO/CID	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
1543	Appendix G - Environmental Justice	5-1	5 and 7	Nicole Kistler	DON	In both section five, Project Impacts and Potential Mitigation and in the section seven, Conclusions Sound Transit makes blanket statements that there are no additional impacts for underserved populations than those for the entire community. The City does not agree with this statement in any section of Appendix G or anywhere else in the DEIS. Inadequate and incomplete studies of impacts, racially biased assumptions, and inadequate methodologies throughout the DEIS are all issues affecting Sound Transit's ability to conclude what is shown in the DEIS. Since vulnerable populations typically experience greater impacts than the overall population, the City does not agree that there would be no additional impacts. Here is an example of how inadequate methodologies led to inaccurate conclusions, specifically how the methods and assumptions in the demographic analysis led to incomplete conclusions in section five, Project Impacts and Potential Mitigation. In Appendix G on page 5-6 in the West Seattle/Delridge portion of the table, Sound Transit notes that some options for Delridge stations and alignment would close Delridge Way on evenings and weekends. Sound Transit states this would have no more impact on vulnerable populations than on other populations, however, the City has heard about RET community use of Delridge Way on evenings and weekends to get to second and third jobs during that time and it would disproportionately affect them.	All (Systemwide)	Comment noted. Table 5-2 has been updated to reflect that closure of Delridge Way Southwest on nights and weekends would affect minority and low-income populations.
1544	Ch 6 Alternatives Evaluation	6-39	6.6	Sandra Gurkewitz	SDOT	Displacement of Public Facilities – this section is missing references to all the City properties/assets that could be affected by this project. Please include a list of all City properties and assets that could be impacted by the project.	All (Systemwide)	Sound Transit has coordinated and will continue to coordinate with the City of Seattle regarding impacts to any City-owned properties or facilities. Appendix L4.1 includes maps and lists of properties identified for acquisition and ownership. This list includes full and partial acquisitions. Easements are not identified, as explained in Section 4.1, Acquisitions, Displacements, and Relocations, of the Final EIS. Section 4.14, Public Services, Safety, and Security, and Section 4.15, Utilities, describe impacts to key public facilities and major utilities, respectively. Appendix L4.14, Public Services, Safety, and Security, includes a list of major public facilities affected by project alternatives. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
1545	Ch 3 Transportation Environment and Consequences			Sandra Gurkewitz	SDOT	NEPA requires consideration of direct, indirect, and cumulative impacts of a project on the environment and development of potential measures to mitigate adverse environmental effects. Typically, a DEIS describes options for mitigation, while the FEIS includes the decisions on mitigation that would be implemented. However, we found the DEIS to be lacking in consistent and clear mitigation for the potential adverse project impacts, many of which may be potentially unmitigable. We found it difficult to evaluate the full impact of the project and differences between alternatives as mitigation measures are peppered throughout the document. The City requests that between DEIS and the FEIS, Sound Transit work with community members, the City, and other stakeholders and partners to develop a comprehensive mitigation analysis and plan with sufficient detail to inform actions on a Project to be built and FTA Record of Decision. The mitigation plan should be co-developed with impacted communities, and should explore a wide range of mitigation tools and strategies.	All (Systemwide)	Mitigation is presented in the Final EIS for identified impacts. Mitigation may be informed by community input, depending on the resource. See Section 6.5, Significant and Unavoidable Adverse Impacts, for discussion of impacts that may not be able to be fully mitigated.

ID	DEIS Chapter/Section	Page No.	Section No.	Comment Made by:	City Department	Comment (Limit to One Item Per Row)	Project Segment	Response
1546	Ch 4 Affected Environment and Environmental Consequences			Sandra Gurkewitz	SDOT	NEPA requires consideration of direct, indirect, and cumulative impacts of a project on the environment and development of potential measures to mitigate adverse environmental effects. Typically, a DEIS describes options for mitigation, while the FEIS includes the decisions on mitigation that would be implemented. However, we found the DEIS to be lacking in consistent and clear mitigation for the potential adverse project impacts, many of which may be potentially unmitigable. We found it difficult to evaluate the full impact of the project and differences between alternatives as mitigation measures are peppered throughout the document. The City requests that between DEIS and the FEIS, Sound Transit work with community members, the City, and other stakeholders and partners to develop a comprehensive mitigation analysis and plan with sufficient detail to inform actions on a Project to be built and FTA Record of Decision. The mitigation plan should be co-developed with impacted communities, and should explore a wide range of mitigation tools and strategies.	All (Systemwide)	Mitigation is presented in the Final EIS for identified impacts. Mitigation may be informed by community input, depending on the resource. See Section 6.5, Significant and Unavoidable Adverse Impacts, for discussion of impacts that may not be able to be fully mitigated.
1547	Ch 6 Alternatives Evaluation			Sandra Gurkewitz	SDOT	NEPA requires consideration of direct, indirect, and cumulative impacts of a project on the environment and development of potential measures to mitigate adverse environmental effects. Typically, a DEIS describes options for mitigation, while the FEIS includes the decisions on mitigation that would be implemented. However, we found the DEIS to be lacking in consistent and clear mitigation for the potential adverse project impacts, many of which may be potentially unmitigable. We found it difficult to evaluate the full impact of the project and differences between alternatives as mitigation measures are peppered throughout the document. The City requests that between DEIS and the FEIS, Sound Transit work with community members, the City, and other stakeholders and partners to develop a comprehensive mitigation analysis and plan with sufficient detail to inform actions on a Project to be built and FTA Record of Decision. The mitigation plan should be co-developed with impacted communities, and should explore a wide range of mitigation tools and strategies.	All (Systemwide)	Mitigation is presented in the Final EIS for identified impacts. Mitigation may be informed by community input, depending on the resource. See Section 6.5, Significant and Unavoidable Adverse Impacts, for discussion of impacts that may not be able to be fully mitigated. See Appendix I, Mitigation Plan, for mitigation measures specific to the preferred alternative. Please see response to CCG1 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.
1548	Appendix G - Environmental Justice	7-1, 7-2	7	Lizzie Moll	SDOT	The analysis is incomplete for both measuring and mitigating impacts and benefits to minority and low-income populations. Thus, a conclusion cannot be reached that "the West Seattle Link Extension would not result in disproportionately high and adverse effects on minority and low-income populations." Nor can a conclusion be reached that "...impacts of the Ballard Link Extension would not be high and adverse to environmental justice populations." The City does not agree with these findings as missing information must be addressed to capture the complete impacts of the project	All (Systemwide)	The analysis is consistent with the regulations and guidance for environmental justice analysis in effect at the time of the analysis. Please see response to CCG1 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.

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Attachment B: Racial Equity Toolkit and Environmental Justice

Seattle and Sound Transit are collaborating on the development of a racial equity analysis using the City's Racial Equity Toolkit (RET) to ensure equitable distribution of project benefits and avoid disparate impacts to communities of color and low-income populations. As the RET was being developed, Sound Transit completed an Environmental Justice (EJ) Analysis as Appendix G of the WSBLE DEIS. While the RET and EJ analyses employ different methodologies, results from each were to be integrated to help inform and solicit feedback from community. The City finds that the DEIS and the EJ Analysis is missing critical analysis and mitigation proposals to support the conclusion that with offsetting benefits the project would not result in disproportionately high and adverse effects on environmental justice populations. The City offers many comments on how to strengthen the EJ Analysis and better integrate the EJ Analysis and the RET in advance of the FEIS.

The City has valued Sound Transit's partnership on developing a joint Racial Equity Toolkit (RET) to ensure equitable distribution of project benefits and avoid disparate impacts to communities of color and low-income populations. This multi-year effort incorporates community engagement and technical analysis to help further the following RET outcomes throughout the project:

- Advance environmental and economic justice to improve economic and health outcomes for communities of color.
- Enhance mobility and access for communities of color and low-income populations.
- Create opportunities for equitable development that include expanding housing and community assets for communities of color.
- Avoid disproportionate impacts on communities of color and low-income populations.
- Create a sense of belonging for communities of color at all stations, making spaces where everyone sees themselves as belonging, feeling safe, and welcome.
- Meaningfully involve communities of color and low-income populations in the project.

In addition, the RET identifies two communities, the Chinatown-International District (CID) and Delridge neighborhoods, for additional analysis and public engagement.

Sound Transit completed an EJ Analysis as part of the WSBLE DEIS. While the RET and EJ Analysis employ different methodologies, results from each were expected to be integrated to help inform and solicit feedback from community. The City's review of the DEIS EJ Analysis finds many missing pieces, particularly connecting information from other sections of the DEIS, and missing opportunities to better align and complement the DEIS with the work of the interagency RET, including strengthening methodology, providing additional information, and partnering on next steps and community processes to further racially equitable outcomes from the project. The following summarizes our comments. More detailed comments related to racial equity and environmental justice can be found in *Attachment A: City Consolidated Comments* and *Attachment M: Community Engagement*.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

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The EJ Analysis is missing relevant information and analyses from other DEIS Chapters. For example:

Comment	Response
<p>Economics. The Economics chapter is missing an analysis of the scale of economic impact from business displacements, road closures, and other construction impacts to the community in Delridge. The DEIS does not address whether displaced businesses are small businesses, cultural anchors, or other community serving businesses, and does not identify indirect effects of these displacements.</p>	<p>Please see responses to comments 822, 824, and 833 in Attachment A.</p>
<p>Acquisitions and displacements. The DEIS proposes that most displaced businesses can be relocated ‘successfully’ within the project vicinity. This does not consider the impact to businesses relying on a localized customer base, the availability of suitable commercial space at comparable rates, nor the viability of Sound Transit’s available funding and tools under FTA policy to support relocation. This is particularly important in the CID.</p>	<p>Please see responses to comments 822, 824, and 833 in Attachment A.</p>
<p>Social resources, community facilities, and neighborhoods. This section of the DEIS states that in the Delridge neighborhood, the project will impact low-income housing to a greater degree, thereby affecting EJ populations. It is unclear why this is not an adverse and disproportionately high impact. Similarly, the DEIS does not look at business impacts in the CID from road closures and parking loss. It does not evaluate post-pandemic impacts, especially to small businesses.</p>	<p>The WSBLE Draft EIS did not make this statement. While some alternatives in the Delridge Segment would displace income-restricted or supportive housing, these impacts would be mitigated. See Appendix G, Environmental Justice, of the West Seattle Link Extension Final EIS for conclusions on impacts and benefits to environmental justice populations.</p> <p>Please see response to comment 801 in Attachment A. A response to this comment related to the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Cumulative impacts. The DEIS and EJ Analysis do not address historic harm or cumulative impacts from multiple large capital projects to neighborhood cohesion in the CID.</p>	<p>Please see responses to comments 75, 754, and 808 in Attachment A.</p>

The EJ Analysis (DEIS Appendix G) should include additional information and analysis. For example:

Comment	Response
<p>Expand the study area for Delridge. The study area should be extended, especially south of the Delridge station to capture communities that will access stations by bus. Sound Transit should consider a Transit Access Study to better understand the needs of the several neighborhoods to the south of the Delridge station that have been identified in the RET.</p>	<p>Please see responses to comments 804 and 1537 in Attachment A</p>
<p>Identify social resources and clients served. The analysis should include a list of social resources impacted by the project, including organization names, descriptions, and clients served.</p>	<p>Please see response to comment 806 in Attachment A. A response to this comment related to the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>Unsheltered people. Unsheltered people are low-income EJ populations. The analysis should include a complete evaluation of unsheltered people and available shelters by segment.</p>	<p>Please see response to comment 809 in Attachment A. A response to this comment related to the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Affordable housing. Analyses of the impact to affordable housing is not captured. It should be explicitly listed in DEIS by federal and local definition, as the loss of affordable housing would be an impact on the human environment and neighborhood.</p>	<p>Please see responses to comments 43, 45, 46, and 48 in Attachment A.</p>
<p>Equity. Specific missing impacts have been provided in the consolidated comments in <i>Attachment A</i>, including more information on air quality (especially in the CID), pedestrian Level of Service, the indirect economic and cultural impacts of the project. See also <i>Attachment D: Methodology and Analytics</i>.</p>	<p>Responses to City comments specific to the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p> <p>Please see Section 3.7, Affected Environment and Impacts During Operation - Nonmotorized Facilities, of the West Seattle Link Extension Final EIS for more information on pedestrian level of service. A response to this comment related to the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p> <p>Response to specific City comments regarding indirect economic and cultural impacts to EJ populations is provided in response to comment 805 in Attachment A.</p>
<p>Relocation. "Research indicates that there are adequate opportunities for most residents and businesses to successfully relocate within the project vicinity". These terms need to be defined and assumptions validated.</p>	<p>Please see response to comment 40 in Attachment A.</p>

Findings. The City strongly disagrees with following conclusions of the EJ Analysis: “[With] offsetting benefits...the West Seattle Link Extension would not result in disproportionately high and adverse effects on environmental justice populations.” (Appendix G, Page 7-1) “Combined with this mitigation and the offsetting benefits, impacts of the Ballard Link Extension would not be high and adverse to environmental justice populations.” (Appendix G, Page 7-2)

Comment	Response
<p>The DEIS and EJ Analysis, as currently drafted, do not include the level of analysis and mitigation measures needed to support these conclusions. Furthermore, additional public engagement is needed to support any conclusions about impacts to minority and low-income populations.</p>	<p>Please see response to comment 1548 in Attachment A.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

Comment	Response
<p>Next steps. In addition to written responses to the City’s formal comments in <i>Attachment A: City Consolidated Comments</i>, and the subset highlighted above, the City would like to work with Sound Transit through development of the FEIS on the following:</p> <ol style="list-style-type: none"> 1. RET Report. Update the 2022 RET Report based on DEIS comments from community and additional engagement between the DEIS and FEIS on refinements to the DEIS alternatives and project mitigation measures. 2. Targeted Engagement in Chinatown-International District. The City supports additional engagement with the CID community to Refine alternatives to avoid/minimize impacts, provide more complete mitigation, and develop a partnership between the public and private sectors and community to address longer-term impacts and historic harm. 3. Targeted Engagement in Delridge. The City supports additional engagement between the DEIS and FEIS with RET-identified communities in South Delridge who will rely on bus-rail integration to access the light rail station at Delridge. This engagement process should seek to confirm with community the Board action on a Preferred Alternative and look for ways to further RET outcomes and North Delridge Action Plan goals. <p>Mitigation. Develop together with the City, community, and other relevant stakeholders and partner agencies, a comprehensive mitigation plan in advance of the FEIS that considers strategies to mitigate impacts to RET populations throughout the entire system, including but not limited to, strategies to reduce displacement of low-income households and provide support to small businesses during construction. See <i>Attachment J: Mitigation</i>, for further discussion.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the West Seattle Link Extension Final EIS, final design, and construction.</p>

Attachment C: Compliance

The City of Seattle is responsible for issuing local permits for the WSBLE project. The City cannot permit the project if it does not comply with City codes, rules, plans, and regulations. The DEIS demonstrates several instances in which compliance with local regulations is unclear. These compliance issues should be resolved and documented in the FEIS to avoid potential cost and delay in the project permitting process.

The following list highlights compliance concerns where the DEIS is either silent on a potential compliance issue or where the DEIS presents information that suggests the project may not comply with City codes, rules, plans, and regulations. If unresolved, these compliance issues may impact the City’s ability to permit project. A comprehensive inventory of these issues may be found in the City’s formal DEIS comments in Attachment A: City Consolidated Comments.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Stormwater. The proposed alignments are not in compliance with regulations for stormwater management related to guideways. Seattle Public Utilities (SPU) cannot permit the project as shown in the DEIS designs. Sound Transit asserts that guideways are non-pollution-generating surfaces. This is incorrect. The Washington State Department of Ecology (Ecology) has judged them to be pollution-generating surfaces. Unless Ecology revises that determination based on new data, the project must meet the City’s Stormwater Code (SMC 22.800-22.808).</p>	<p>Please see responses to comments 670, 671, 672, and 689 in Attachment A.</p>
<p>Land Use. The information necessary to identify impacts, compare alternatives and demonstrate compliance with city code is missing. The analysis in the DEIS does not identify the above grade guideway segments that would be located above the maximum allowed zoning height (SMC 23).</p>	<p>Please see responses to comments 103 and 846 in Attachment A.</p>
<p>Noise. References to Seattle Noise Ordinance (SMC 25.08) are missing from the operational noise impact analysis, therefore, the potential conflict with local controls and policies cannot be determined. The DEIS uses FTA methodology to establish impacts and the required mitigation for operational sound levels. That FTA standard is not used in the Seattle Municipal Code (SMC) nor in the Washington Administrative Code (WAC). Exterior sound level limits of SMC 25.08.410 and .420 must also be used to evaluate impacts of the project.</p>	<p>Please see response to comment 125 in Attachment A.</p>
<p>Historic Preservation. References to Seattle Municipal Code sections are missing related to implementation of the City’s Historic Preservation regulations. The references to when a Certificate of Approval (SMC 25.12 and SMC 23.66) is required for alterations within historic districts (demolition, construction of stations, venting structures, head houses etc.) or to individual landmarks. Additionally, the regulations regarding referral to the Landmarks Preservation Board of nominations for potentially eligible resources that are proposed for demolition or substantial alteration are not addressed (SMC 25.05.675H2c and SMC 25.12). Therefore, the potential conflict with local controls and policies cannot be determined.</p>	<p>Please see responses to comments 704 and 705 in Attachment A.</p>

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Comment	Response
<p>Shoreline and Environmentally Critical Areas. The Compensatory Mitigation sections in the Ecosystems chapter prioritize off-site or in lieu fee mitigation measures which do not address City of Seattle Shoreline Code requirements (SMC 23.60A.158 and SMC 23.60A.159) or the Environmentally Critical Areas (ECA) mitigation sequencing priority (SMC 25.09.065). Avoidance, minimization, and in-project area mitigation sites should be considered in advance of off-site and/or in-lieu fee mitigation measures. Table B for SMC 25.09.160 should be referenced regarding mitigation measures for wetlands.</p>	<p>Please see responses to comments 157, 166, and 174 in Attachment A.</p>
<p>Overwater and In-water Structures. Due to the negative impacts of overwater structures and inwater structures (i.e., bridge alternatives) to the salmonids and other aquatic species using the Ship Canal, the King County in-lieu fee program (or other mitigation locations outside Seattle) is very likely not to be a viable or appropriate option for compensatory mitigation due to City of Seattle Shoreline Code requirements (SMC 23.60A.158 and SMC 23.60A.159).</p>	<p>Please see response to comment 157 in Attachment A. Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Geology and Soils. The Prospect Street portal, Smith Cove Station site, and alignments along the west side of Queen Anne are in Environmentally Critical Areas (ECA) steep slope and potential slide. These project components will likely require considerable efforts to provide complete stabilization to protect the facility from landslides emanating from the ECA Steep Slope Area.</p>	<p>Please see responses to comments 83, 198, 199, 200, and 207 in Attachment A. Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Seattle Municipal Code Title 15. Title 15 covers protection and repair of features in public places, including sidewalk, pavement, sewers, drain inlets, catch basins, green stormwater infrastructure, streets, trees, or any other public facility or assets, that are impacted by construction activities (SMC 15.22.080). In accordance with Title 15, the Right-of-Way Opening and Restoration Rules (ROWRR) describes references, requirements, and standards that must be met when making or restoring openings in the public right-of-way. The DEIS does not cite compliance with Title 15, the ROWRR, or City of Seattle Standard Plans and Standard Specifications for Road, Bridge, and Municipal Construction, for roadway and sidewalk facilities restored as part of construction activities. Additionally, the Utilities section of the DEIS does not describe restoration within the ROW as a project impact for utility relocations during construction.</p>	<p>Please see responses to comments 305, 337, and 338 in Attachment A.</p>
<p>Visual Quality and Aesthetics. The analysis is incomplete and appears not to be compliant with SMC 23.66. In order to show analysis could lead to compliance with SMC 23.55, visual impacts of station entrances and related components, headhouses, venting, bike parking, etc. require further analysis of the siting of these elements in consideration of visual cohesion and architectural character within the Pioneer Square Preservation District and International Special Review District. All elements above grade, including, but not limited to paving, street furnishings, bicycle parking, signage, lighting and landscaping will require a Certificate of Approval from the Department of Neighborhoods. This will include review and a recommendation by the respective historic review Boards, pursuant to Chapter SMC 23.66.</p>	<p>Please see responses to comments 123, 755, and 756 in Attachment A. Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>Next steps. The City offers continued support to explore code amendments, as appropriate, with ST and with community. Several of our codes and policies do not anticipate the unique complexity associated with constructing a linear transportation project such as the West Seattle and Ballard Link Extensions. Per the Partnering Agreement, the City continues to review development regulations and processes that will likely be applicable to the project and identify code changes and process reform actions necessary to streamline the permit review process or resolve code conflicts. Community outreach will be conducted later this year for consideration of proposed code reforms.</p> <p>The need to resolve outstanding compliance issues must be addressed by release of the FEIS to avoid later delays. If the City's concerns regarding local regulations are not adequately addressed through the environmental review process, it is unlikely that the FEIS and ROD will sufficiently meet the City's needs—thereby requiring the City to request additional analysis and mitigation during the permitting process and creating unknown delays we all want to avoid. Streamlining the permitting process requires an adequate analysis of impacts and mitigation in the DEIS, FEIS, and ROD to minimize the need for identifying additional mitigation later during the permitting process.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the West Seattle Link Extension Final EIS, final design, and construction.</p>

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Attachment D: Methodology and Analytics

Many sections of the DEIS are missing information and analysis necessary to understand the full complement of project impacts. Without this information or analyses it is difficult to fully compare alternatives and develop appropriate mitigation. We also found several areas where we did not agree with the methodology or assumptions used to evaluate impacts.

The following list provides representative examples of missing information, incomplete analyses, and disagreement on methodology and assumptions. A comprehensive list of these issues may be found in the City’s formal DEIS comments in Attachment A: City Consolidated Comments.

Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Examples of missing information or analysis:</p> <p>Business and Residential Displacements. See Attachment I for additional information on the City’s comments related to displacement. The City finds information, analysis, and/or mitigation missing for the following:</p> <ul style="list-style-type: none"> • Impacts to minority-owned businesses and employees, particularly BIPOC businesses and employees, have not been fully evaluated throughout the corridor. • Impacts to residential property owners and renters, including low-income and BIPOC communities. The information necessary to identify impacts and compare alternatives for acquisitions, displacements, and relocations is missing. • Demographic and socio-economic data for each displacement and impacts of acquisitions and displacements on Mandatory Housing Affordability (MHA) units. • The results of businesses and residential displacements needs to be further evaluated in terms of community cohesion and gentrification including impacts to low income and BIPOC communities. Mitigation measures need to be proposed. 	<p>See responses to comments in Attachment I.</p>
<p>Economic and Social Impacts. The evaluation of social resources and community cohesion in the Chinatown/International District (CID) is incomplete. Many cultural and social resources vital to the community are missing in the DEIS including Summit Sierra School, the Chinese Language school at Chong Wa Benevolent Association, and the Puget Sound Community School. There is also no mention of Theatre Off Jackson. Donnie Chin International Children’s Park is mis-identified, and Kobe Terrace Park and the Danny Woo Community Garden are omitted. Missing is discussion of the indirect impacts to neighborhood social and cultural cohesion outside of the immediate CID station area.</p>	<p>A response to this comment will be provided will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>Environmental Justice and the RET: The Chinatown-International District is a RET identified community that has historically experienced disproportionate impacts from government actions. Impacts to the community have not been fully evaluated, including the following:</p> <ul style="list-style-type: none"> • Analysis of indirect impacts such as economic displacement resulting from potential land value increases after completion of the project. • Construction disruption, especially to the small businesses that are struggling in the current recession need to be included in the analysis. • Impact of street closures, rerouting, and transit changes to business and residents. • Discussion of cultural displacement and the broader consequences to culturally unique and sensitive businesses within the CID, and to the broader regional users of this cultural anchor community. • Removal of direct service to the Stadium Station for the Rainier Valley, Tukwila, SeaTac and Federal Way communities will likely increase the load on the CID station for transfers and pedestrian traffic, especially during Stadium events. <p>Evaluation of surge traffic impacts in the CID and on BIPOC communities is missing.</p>	<p>Please see responses to comments 382, 463, 805, 1499, 1502, 1506, 1507, and 1508 in Attachment A.</p> <p>A response to the comment regarding direct service to the Stadium Station will be provided will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Land Use and Transit Oriented Development (TOD): Potential for new development and TOD to advance gentrification has not been addressed. Need clearer comparison between type of land uses impacted by each alternative to adequately to compare alternatives. For example, in the West Seattle segments: need to demonstrate the project is consistent with the West Seattle Triangle Urban Design Framework, North Delridge Action Plan and the City of Seattle Comprehensive Plan goals and policies.</p>	<p>Please see response to comments 743, 832, and 848 in Attachment A.</p> <p>Consistency with the North Delridge Action Plan is discussed in Appendix L4.2, Land Use, of the WSBLE Draft EIS and the West Seattle Link Extension Final EIS. The West Seattle Triangle Urban Design Framework is not an adopted plan and therefore consistency was not evaluated.</p>
<p>Parking: Impacts to parking have not been adequately evaluated throughout the corridor, including analysis of hide and ride parking near stations, construction worker parking needs and impact to disabled parking. Inventory of commercial loading zones is not correct. Impacts to commercial load zones near stations not evaluated or mitigated.</p>	<p>Please see response to comments 96, 97, 303, 309, 370, 374, 587, 1035, 1036, and 1049 in Attachment A.</p>

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Comment	Response
<p>Visual Quality and Aesthetics: Visual quality and aesthetic impacts have not been fully evaluated. Missing analyses and visuals include:</p> <ul style="list-style-type: none"> • Specific public views of natural and human made features along SEPA corridors and of historic landmarks. • System elements including guideways, stations, portals, straddle bents, noise walls, overhead pole (OCS), and Traction Power Substation (TPSS) numbers and locations. • Additional Key Observation Points (KOPs) • Visuals in respect to light, glare, height, bulk and scale and shading. <p>Evaluation of visual impacts from exhaust stacks and entry portals adjacent to historic landmarks and those within historic districts need to be evaluated.</p>	<p>Please see response to comments 109, 110, 111, 116, 120, 122, 730, 736, 883, 886, 887, 891, 895, 900, 902, 903, 904, and 965 in Attachment A.</p> <p>Additional key observation point (KOP) simulations and associated impact analyses have been added in the Final EIS, including simulation KOP views of/from SR 99, the West Seattle Bridge, and South Spokane Street; see Attachment N2A in Appendix N2, Visual and Aesthetics Technical Report, of the Final EIS.</p>
<p>Cultural and Historic Resources: The Area of Potential Effects (APE) should be expanded to include detour routes through Pioneer Square. An evaluation of impacts to buildings and areaways in Pioneer Square should be added. Missing information and analysis of the CID and Pioneer Square in the context of a larger historic district should be completed. The list of properties potentially eligible for Landmarks designation, in addition to those potentially eligible for listing on the National Register of Historic Place (NRHP) is missing. See Attachment H for additional discussion of cultural and historic resources.</p>	<p>A response to this comment regarding detour routes through Pioneer Square and areaways will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Examples of Methodology Disagreements:</p> <p>Transportation:</p> <ul style="list-style-type: none"> • Boarding numbers need updating, especially for peak hour travel • Bicycle facilities analysis does not meet FTA best standards 'access to transit' of 3- mile radius from station (ST used 1.5-mile bike shed) • Missing pedestrian LOS data, which may have changed since DEIS analysis. • Traffic modeling. Sound Transit utilized Synchro and the City understands that further analysis with Vissim may be warranted between DEIS and FEIS. The City would appreciate review of this modeling work with the project team. • Provide signal phasing assumptions, these have changed since the DEIS was written and model assumptions need to be updated. • Speed limits have changed since the DEIS was written and model assumptions need updating. 	<p>Please see response to comments 86, 306, 310, 324, 375, 376, 412, 435, 443, 1024, 1048, and 1058 in Attachment A.</p> <p>Vissim was used for the Final EIS analysis in some areas (4th Avenue South corridor and the Delridge Station area), and the results are documented in Section 4, Arterials and Local Streets, of Appendix N.1, Transportation Technical Report. This modeling has been presented to the City of Seattle through a variety of interagency coordination meetings.</p> <p>The existing condition year for the Final EIS continues to be 2019, and speed limit assumptions are consistent with that year. Signal timing assumptions are provided in Attachment N.1A to Appendix N.1 and are consistent with the 2019 base year.</p>

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Comment	Response
<p>Design/Safety: Include Seattle Fault and earthquake parameters in design. Standards are changing and the FEIS should use most current standards. For Smith Cove/W. Galer Street Station, all alternatives pass through areas that a NOAA model predicts could be inundated by a Seattle Fault generated tsunami. The preferred alignment is exposed to tsunami inundation at W Republican St/5th Ave W. Please consider this in further design of these alternatives.</p>	<p>Please see response to comment 18 in Attachment A. A response to this comment with respect to the Ballard Link Extension study area will be as part of the environmental review process for the Ballard Link Extension.</p>
<p>Visual Quality: The DEIS does not use current FHWA 2015 Visual Quality Analysis Guidelines. Please use the most recent guidelines.</p>	<p>Please see response to comment 883 in Attachment A.</p>
<p>Air Quality: Per Puget Sound Clean Air Agency's report on toxics in the CID, the neighborhood has among the poorest air quality in Seattle. Please incorporate PSCAA's findings in your analysis and evaluate the impact of construction vehicles for the project and their contribution to cumulative air quality impacts.</p>	<p>Please see response to comment 813 in Attachment A. Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Next Steps. In addition to written responses to the City's formal comments in Attachment A: City Consolidated Comments, the City would like to work with Sound Transit through development of the FEIS to update or complete analyses requested by the City and provide technical assistance, information, and evaluations upon request.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS, final design, and construction.</p>

Attachment E: Transportation Impacts

There are many instances in which the DEIS does not sufficiently disclose and analyze construction and operational impacts to the transportation system. Additional work is needed to understand the scope of these impacts to inform appropriate mitigation measures, action on a Project to be Built, and eventual project permitting.

The following text highlights major City concerns related to construction and permanent transportation impacts. A comprehensive inventory of these issues may be found in the City’s formal DEIS comments in Attachment A: City Consolidated Comments.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Construction Impacts. The City notes several concerns related to construction impacts, including:

Comment	Response
<p>Road Closures During Construction. Statements in the DEIS that full or partial closures to arterials will create more congestion do not adequately identify the true impacts on the traveling public. Several of the full and partial closures will require reduced vehicle trips, compelling the public to change behavior during the construction period. SDOT operations staff will need to actively manage construction impacts throughout construction of the project. Mitigation of impacts on bus operations due to street closures is not adequately described and should be closely coordinated with the City and King Country Metro. The insufficient capture of construction impacts impedes the understanding of whether mitigation measures will adequately address impacts, which in turn, limits evaluation of alternatives when construction impacts are an important factor.</p>	<p>See responses to comments 767, 769, 771, 795, 1030, 1031, 1043, 1046, 1072, 1120, and 1250 in Attachment A. Please see responses to common comments CCG1 and CC3c in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.</p>
<p>Streetcar impacts. The DEIS assumes that the Center City Connector will be complete by the time WSBLE work begins in 2027 in the Downtown segment. As of April 2022, construction of C3 has not yet started and should not be assumed to be complete before WSBLE work begins in the Downtown segment in 2027. The FEIS should revise assumptions to account for C3 construction that could be concurrent with WSBLE. The FEIS should describe the impacts and propose mitigation for C3 construction, startup, and testing activities as well as the operation of the streetcar system as expanded by the C3 project.</p>	<p>See responses to comments 281, 282, 283, 287, 288, and 289 in Attachment A.</p> <p>A response regarding the Center City Connector construction will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>The DEIS notes varying degrees of impacts to the streetcar under nearly all Downtown and CID alternatives yet will still be able to operate, though not as a connected streetcar system. This significantly understates the true impact of the WSBLE construction to the operations of the system. The streetcar cannot be easily rerouted or curtailed without major capital work and associated environmental documentation. This might include installation of temporary tracks, turnbacks, and switches, to maintain access to the fleet and maintenance facilities at Charles Street (FHS) and 318 Fairview (SLU) and provide for safety during such operations. The DEIS does not detail necessary modifications to the streetcar system to provide for continued, if disconnected, service.</p>	<p>A response regarding the Center City Connector construction will be provided as part of the environmental review process for the Ballard Link Extension. See responses to comments 281, 282, 283, 287, 288, and 289 in Attachment A.</p>
<p>Emergency services. Construction impacts will have impacts to emergency transportation services. Insufficiently identifying construction impacts the ability to evaluate how construction will impact emergency transportation services.</p>	<p>See responses to comments 8 and 694 in Attachment A.</p>
<p>Permanent Operational Right-of-Way (ROW) Modifications. The City notes several concerns related to permanent operational modifications to ROW, including:</p> <ul style="list-style-type: none"> • The project assumes that several transit lanes downtown will be converted to general-purpose travel lanes. This assumption is not consistent with current City vision and goals. • Further evaluation of center column placements along Elliott/15th and 14th Ave should be performed to ensure that there are adequate sightlines and access can be maintained. 	<p>See responses to comments 436, 440, and 1216 in Attachment A.</p>
<p>Further evaluation is needed for SODO busway and SODO Trail closure to better identify impacts and determine appropriate mitigation with partners.</p>	<p>See responses to comments 767, 768, 1036, 1070, 1089, 1112, 1113, 1167, and 1168 in Attachment A. Please see response to common comment CC3f in Table 7-1.</p>
<p>Removal of Commercial and ADA Load Zones. The DEIS does not fully detail impacts and mitigation for loss of parking and loading/ADA access in certain areas (CID 5th Ave and near Seattle Center). The DEIS acknowledges that commercial loading and ADA spaces would be displaced and relocated, which may not allow them to serve the business/residents needing those zones. The DEIS does not provide sufficient detail to evaluate and mitigate these impacts.</p>	<p>See responses to comments 378, 522, 523, and 1049 in Attachment A.</p>
<p>Access and Integration. The City notes several concerns related to access and integration, including:</p> <ul style="list-style-type: none"> • Pedestrian/bike access: <ul style="list-style-type: none"> – Information regarding improvements necessary to ensure adequate sidewalk space immediately adjacent to station entrances is missing or incomplete. 	<p>Please see responses to comments 306, 364, and 365 in Attachment A. Please see responses to common comments CC3a and CC3b in Table 7-1</p>

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Comment	Response
<p>Station entrances should be located to improve pedestrian/bicycle/ADA station access, bus integration, equitable transit-oriented development, and station visibility/legibility. For example, for alternatives WSJ-3a, WSJ-4, and WSJ-5, consider an additional entrance on the west side of 41st Avenue SW to provide access closer to the California Avenue SW commercial corridor.</p>	<p>Please see responses to comments 1427, 1432, 1433, and 1533 in Attachment A. Please see response to common comment CC3a in Table 7-1.</p>
<p>The walk and bikeshed analysis should be expanded upon, in terms of the number of miles for anticipated ridership and improvements using FTA standards, to identify how the customers will safely access the station by walking and biking and where facilities need to be added, upgraded, or maintained.</p>	<p>Please see responses to comments 411 and 1024 in Attachment A. Please see response to common comment CC3a in Table 7-1.</p>
<p>The number of secured bike parking spaces should be reanalyzed, and more work is needed to determine additional areas at each station to ensure all bikes fit and are accessible in the bike parking areas.</p>	<p>Please see response to comments 307, 310, 435, 1098, and 1435 in Attachment A.</p>
<p>Transit pathways. Many of the Delridge Station alternatives would require bus service to deviate from Delridge Way. These new bus movements would affect operations on Delridge Way (raising questions about signals, markings, and/or lane priority for transit) and on nearby nonarterial streets (pavement, ped/bike/bus interaction, noise). The associated impacts and mitigations must be identified in the DEIS and implemented during construction.</p>	<p>Please see response to comment 1532 in Attachment A.</p> <p>Sound Transit has conducted detailed analysis of the preferred alternative for the Delridge Station using Vissim microsimulation. The findings have been shared with the City through a series of interagency coordination meetings. Design, including pedestrian and bicycle interactions with vehicles and buses, has been refined in partnership with the City. Additional information about the potential for traffic impacts from buses has been added to Section 4.7, Noise and Vibration, and Appendix N.3, Noise and Vibration Technical Report.</p>
<p>Pick-up/Drop-off. The DEIS does not detail the methodology for determining bus pick up/drop off demand and indicates different assumptions at different stations; this is particularly troubling where curb space may be limited or unavailable. For example, the DEIS indicates that the Westlake Station would have 40% higher ridership, including passengers being dropped off, but no pickup/drop off areas are included.</p>	<p>Please see response to comment 376 in Attachment A.</p>

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Comment	Response
<p>Next Steps. In addition to responding to the City’s formal DEIS comments in Attachment A: City Consolidated Comments, the City would like to partner with Sound Transit on the following actions:</p> <ul style="list-style-type: none"> • Work with SDOT Divisions, including Transportation Operations, Street Use, and Transit and Mobility, to fully identify the range of construction impacts and develop a construction management plan that anticipates schedule and phasing, needed traffic reroutes and deviations, and appropriate transportation demand management strategies during the construction period. • Address the numerous concerns raised by the Seattle Streetcar team through additional analysis of impacts and development of a mitigation plan. Mitigation analysis for the streetcar system should include: <ul style="list-style-type: none"> – Capital facilities to allow continued operations Center City Connector and South Lake Union streetcar systems, and for First Hill service to continue to 5th and Occidental, including continued access to maintenance facilities for all lines to enable operations; – Analysis of limited duration shut-downs sufficient to build the capital improvements necessary to maintain safe operations of a connected streetcar system during WSBLE construction; – Phasing of construction impacts to avoid concurrent closures of both FHS and SLU lines and full closure of the entire streetcar system when C3 is operational; and – Financial mitigation for any closures to support operations and address ongoing costs during closures. • Commit to improving station access and transit integration in the next phase of station planning before the FEIS. Ensure that the FEIS includes these updated station designs. See Attachment L: Planning for Station Access and Transit Integration for longer discussion and next steps for station planning. 	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the West Seattle Link Extension Final EIS, final design, and construction. Please see responses to common comments CC3 and CC3b in Table 7-1. A response to this comment related to street car impacts will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Attachment F: City Assets and Properties

The WSBLE project may impact many assets and properties that the City owns and/or maintains. Many impacts will require acquisition in fee or by easement, utility relocation, right-of-way use through street use permitting, or other legal conveyance—all processes that take substantial time, and in many cases City Council action. The DEIS does not fully document potential impacts to City assets and properties, making it difficult to understand completely the trade-offs between project alternatives and identify appropriate mitigation actions.

The City owns and/or maintains infrastructure and parceled properties—including the Seattle Center, several parks, two public golf courses and greenbelts, a Seattle Parks and Recreation (SPR) maintenance facility, utility infrastructure, street right-of-way, bridges, buildings, and vacant property—that may be impacted by WSBLE. The following describes the major concerns with evaluation of impacts to and mitigation for City assets and properties. A comprehensive inventory of these issues may be found in the City’s formal DEIS comments in Attachment A: City Consolidated Comments.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Property Acquisition. During our review we found the Acquisitions, Displacements and Relocation chapter, and Appendix L.4.1 is missing information and analysis. This made it difficult for staff to fully evaluate project impacts to City assets, costs for easements, acquisition, or construction use of these properties, and identification of appropriate mitigation measures that would be appropriate. Because the process for acquiring properties and property rights varies by City Department, and all transactions require City Council approval, it is important for City staff to begin these processes as soon as possible to avoid project delays. To complete this analysis the City needs the following:</p> <ul style="list-style-type: none"> • List of all impacted City assets. • Clear identification of construction easements and staging areas related to City property and a distinction between full and partial acquisitions. • List of proposed permanent rights-of-way needed to complete the project. • Summary of contamination that may occur to City assets or adjacent properties. 	<p>Please see response to comment 1544 in Attachment A. Please see Appendix L4.1, Acquisitions, Displacements, and Relocations, of the West Seattle Link Extension Final EIS for tables and maps of property that would need to be acquired for each alternative.</p>
<p>Utilities. We found the Utilities Chapter included several incorrect assumptions. In addition, along with Appendix J – Conceptual Plans we found the chapter missing information and/or analysis to clearly identify utility impacts. Likewise, mitigation was missing or inadequate. For example:</p> <ul style="list-style-type: none"> • The DEIS states that ‘Through pre-construction measures and coordination with utility providers, no impacts on major utilities are expected during construction and no mitigation would be needed.’ We strongly disagree and given all the impacts described in the same DEIS, question the basis for this assumption. 	<p>Please see responses to comments 316 and 667 in Attachment A. Please see Section 4.15, Utilities, and Appendix L4.15, Utilities, of the West Seattle Link Extension Final EIS; information on utility identification and associated impacts has been updated where appropriate.</p>

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<p>The DEIS states that guideways are non-pollution-generating surfaces. This is false; the Washington State Department of Ecology has judged guideways to be pollution-generating surfaces. Unless Ecology revises that determination pending new data, the project must meet the City's Stormwater regulations to be permitted; the current design does not.</p>	<p>Please see responses to comments 670, 671, and 689 in Attachment A.</p>
<p>The DEIS describes relocations for 'major' utilities, while relocations of 'minor' utilities, which will be extensive, were not evaluated. Waiting until final design for this evaluation limits an accurate comparison of alternatives in cases where many 'minor' are in proximity 15 to the project. In addition, the study area of 100 feet on each side of the alignment does not address potential indirect impacts to utilities outside the corridor.</p> <ul style="list-style-type: none"> • Known alignment conflicts with overhead and underground electrical utilities have not been fully evaluated for impacts to the project. • There are several transmission lines in the project corridor. Transmission outages are generally not allowed and take up to one year to schedule in advance. Sound Transit should evaluate the process and timeline for transmission outages. • SCL could not verify the number of major utility conflicts with the conceptual drawings in Appendix J and those in the Utilities chapter due to omissions and inconsistencies. 	<p>Please see responses to comments 74, 75, 677, 1292, 1293, and 1302 in Attachment A.</p>
<p>Right-of-Way Use and Improvements. The DEIS presents little information on and no analysis of changes in roadway channelization, partial or full Right-of-Way (ROW) needs. To evaluate the impacts to City ROW, additional analysis and information is needed, including:</p> <ul style="list-style-type: none"> • Multi-year street closures have impacts to alternative pathway streets and to the system that are not accurately depicted in the DEIS. This needs to be evaluated to determine whether these roadways can accommodate detoured or diverted traffic. 	<p>Please see response to comment 1255 in Attachment A. Please see response to common comment CC3c in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.</p>
<p>More complete list of utility relocations and 'construction limits.</p>	<p>Please see responses to comments 677, 1292, and 1302 in Attachment A. Construction limits are identified on the Appendix J drawings.</p>
<p>Proposed changes/relocations of pedestrian/bike facilities and connections at stations</p>	<p>Please see responses to comments 306, 364, 365, 389, 392, 394, 398, 399, 403, and 445 in Attachment A. The West Seattle Link Extension Final EIS includes descriptions of existing pedestrian and bicycle connections to stations and proposed changes at stations as appropriate. Specific facility design within the construction footprint and how these facilities will tie into adjacent City facilities are being discussed through a series of interagency coordination meetings with the City.</p>
<p>Impacts on existing trees in ROW under SDOT jurisdiction and required 2:1 replacement</p>	<p>Please see responses to comments 222 and 223 in Attachment A.</p>

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Comment	Response
<p>The information necessary to identify impacts to pedestrians and bicyclists accessing the stations. Improvements necessary for safe bicyclist and pedestrian access should be included as part of the WSBLE project. (See also similar comment directed at all stations.)</p>	<p>Please see responses to comments 306, 364, 365, 389, 392, 394, 398, 399, 403, and 445 in Attachment A.</p>
<p>Impacts to SDOT structures particularly bridges have not been assessed.</p>	<p>Please see responses to comments 299 and 300 in Attachment A.</p>
<p>Right-of-way changes associated with channelization, signalization, sidewalk/ADA improvements for operation of WSLBE have not been assessed in the DEIS. Also, right-of way changes associated with detours and traffic diversion have not been evaluated.</p>	<p>Please see responses to comments 305, 306, 311, 313, 314, 331, 767, 1016, 1017, 1030, 1031, 1043, 1047, 1072, 1227, and 1243 in Attachment A. Changes to right-of-way are included in the project footprint and impacts are considered throughout the environmental analysis.</p>
<p>Streetcar. The DEIS assumes that the Center City Connector (C3) Streetcar will be complete at the time of WSBLE construction. If correct, construction road closures for either alternative would require track and signal modifications to re-route the streetcar for continued service. The proposed mitigation to develop an operational plan to minimize impacts to streetcar service would be inadequate. The DEIS should also evaluate cumulative impacts to the streetcar and downtown transportation network if C3 and WSBLE construction overlap. See Appendix A for additional comments related to C3 streetcar, as well as SLU and First Hill streetcar networks.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Next steps. The City will assemble a City Asset Team of real property services with representation from each affected City department. The City requests that Sound Transit works with this team to:</p> <ul style="list-style-type: none"> • Develop a plan for mitigation to City assets, including the acquisition and sale of property rights related to City assets property acquisition where appropriate. • Identify contamination on and near City assets that might affect City assets during construction. • Provide requested additional studies and information for impacts to City assets and properties, including the Streetcar network. The City team will help identify additional impacts and design improvements or avoid or mitigate impacts. • Update drainage design to meet current City stormwater regulations. 	<p>Sound Transit is currently working with the City Asset Team as design progresses regarding the above items throughout the development of the West Seattle Link Extension Final EIS, final design, and construction.</p>
<p>Summary table of impacts to City assets and properties. The following summary table compiles impacted City assets and properties, based on City staff understanding of the DEIS. This list may not be exhaustive.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the West Seattle Link Extension Final EIS, final design, and construction.</p>

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Attachment G: Section 4(f) Impacts

The Section 4(f) analysis performed by Sound Transit lacks necessary specificity and detail on the scope, duration, and mitigation of impacts to parks and park facilities, certain historic resources, and Seattle Center for any of the alternatives. Seattle Parks and Recreation (SPR) and Seattle Center cannot concur as to whether project impacts are *de minimis* under Section 4(f) without this additional analysis, including adequate demonstration of completed planning to minimize harm to SPR properties and Seattle Center.

The following list provides representative examples of places where additional information and details related to Section 4(f) impacts and mitigation, including impacts to parks, recreation areas, and historic resources, are needed. A comprehensive inventory of these issues may be found in the City’s formal DEIS comments in *Attachment A: City Consolidated Comments*.

Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Parks, recreation areas, and greenbelts. Need additional analysis of the scope, duration, and mitigation for impacts to 28 SPR facilities and natural areas including Kinnear Park, Interbay Playfield, Delridge Community Center, and West Duwamish Greenbelt. For example, potential impacts to Kinnear Park and its recreational uses should be disclosed and mitigated.</p>	<p>Responses to specific City comments regarding the West Duwamish Greenbelt are provided in response to the following comments in Attachment A: 652, 653, and 656. Please see response to common comment CC4.17a in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. Section 4.17, Parks and Recreational Resources, identifies impacts and proposed mitigation. A response to this comment with respect to parks in the Ballard Link Extension study area will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Golf courses. Need additional analysis and mitigation of the impacts to playability, configuration, operations, and resultant revenue, at West Seattle Golf Course and Interbay Golf Course. For example, the tunnel portal alternatives on the south side of South Genesee Street would have significant impacts on golf course playability, operations, and revenue.</p>	<p>Responses to specific City comments regarding West Seattle Golf Course are provided in response to the following comments in Attachment A: 646, 647, and 655. Please see response to common comment CC4.17b in Table 7-1 in Chapter 7 of the Final EIS. Section 4.17 identifies impacts and proposed mitigation. If any of the alternatives that impact West Seattle Golf Courses are selected to be built, Sound Transit would continue to coordinate with the City, as described in Section 4.2.17.6.2 of the Draft EIS. A response to this comment with respect to the Interbay Golf Course will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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<p>Seattle Center. Need additional analysis and mitigation of adverse impacts from the temporary closure of 1.5 acres of the Seattle Center campus during construction, including provisions for equitable and ADA access to campus; analysis to support the conclusion that Seattle Center tenants will be able to continue normal operations during construction; analysis and mitigation of permanent adverse impacts, such as displacement of Donnelly Gardens and Legacy London Place trees; and analysis and mitigation of potential permanent adverse impacts to historic facilities including the Northwest Rooms and the Cornish Playhouse. See <i>Attachment K</i> for more detailed discussion of comments related to Seattle Center.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Additional historic resources. In addition to impacts to Seattle Center historic resources referenced above, more information is needed regarding impacts on the International Special Review District/Chinatown NR District, as well as impacts to Union Station. See <i>Attachment H</i> for more detailed discussion of comments related Section 106 and historic resources.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
<p>Next Steps. The City requests work sessions with Sound Transit related <i>de minimis</i> concurrence. If we are unable to achieve agreement on concurrence on <i>de minimis</i> findings, we will request additional least harm analysis during development of the FEIS, including a more detailed mitigation discussion, negotiation, or determination based on selection of a Preferred Alternative. For 4(f) properties with adverse impacts, the City requests a 4(f) and least harm analysis. The City requests that Sound Transit provide written responses to City comments including detailed information as requested in City Section 4(f) comments in <i>Attachment A</i>.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS. The Final EIS includes a least harm analysis consistent with Section 4(f) requirements.</p>

Attachment H: Historic and Archaeological Resources/Section 106

The DEIS does not sufficiently assess the construction and permanent visual, physical, and operational impacts of the WSBLE project on historic resources. A thorough understanding and analysis of these impacts (effects) is necessary to meaningfully compare alternatives, inform a decision on a Preferred Alternative, and avoid costly conflicts and limited mitigation opportunities. Successful Section 106 consultation depends on the City having this information to evaluate impacts and trade-offs.

Comment	Response
<p>As noted in <i>Attachment C: Compliance</i>, the DEIS demonstrates several instances where compliance with Seattle Municipal Code sections related to implementation of the City's Historic Preservation regulations are not identified. Specifically, the references to when a Certificate of Approval (SMC 25.12 and SMC 23.66) is required for alterations within historic districts (demolition, construction of stations, venting structures, head houses etc.) or to individual landmarks.</p>	<p>See responses to comments 212, 213, and 709 in Attachment A.</p>
<p>The DEIS does not adequately address regulations regarding referral to the Landmarks Preservation Board of nominations for potentially eligible resources that are proposed for demolition or substantial alteration (SMC 25.05.675H2c and SMC 25.12). Without this information, the potential conflict with local controls and policies cannot be determined. These issues should be resolved and documented in the FEIS to avoid potential cost and delay in the project permitting process.</p>	<p>See responses to comments 213, 214, 215 and 709 in Attachment A.</p>
<p>Related to both local and federal regulatory compliance, the DEIS does not adequately assess or describe the impacts to historic resources.</p>	<p>See responses to comments 213, 215, 709, and 714 in Attachment A.</p>
<p>Several specific examples that are of concern are the visual impacts to Union Station caused by vent stacks, the construction impacts to areaways regarding haul and detour routes, and the construction and operational impacts to Seattle Center under DT-1 Seattle Center station alternative at Republican Street. Additionally, the DEIS does not define, identify, or address impacts to traditional cultural properties (TCPs).</p>	<p>See responses to comments 422, 730, 732, 736, 744, 745, and 746 in Attachment A. Regarding the Seattle Center, see responses to Attachment K.</p>

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Comment	Response
<p>The City is a Consulting Party under Section 106 of the National Historic Preservation Act (NHPA). In this role, we will work towards concurrence on the area of potential effect (APE), identify historic and archaeological resources within the City that are adversely affected and work with Sound Transit and FTA to develop a Memorandums of Understanding if appropriate. The City has not yet concurred on the project APE. We understand that the APE can change throughout the process as the project evolves.</p> <p>However, it is important that the APE capture all areas that will be impacted both permanently and during construction. We have specific concerns regarding the APE in the CID, Pioneer Square, and Seattle Center.</p>	<p>See responses to comments in Attachment A: 568, 712, 715, 733, and 734.</p>
<p>Next steps. A comprehensive inventory of these issues may be found in the City's formal DEIS comments in <i>Attachment A: City Consolidated Comments</i>. In addition to written response to those comments, the City seeks the following:</p> <ul style="list-style-type: none"> • Continued meetings of consulting parties with Sound Transit and the FTA to discuss and seek agreement on Section 106 matters. • Clarity in the FEIS for analysis of proposed physical alterations and the resulting impacts (effects) on historic resources. This includes existing city landmarks and historic district, potentially locally eligible resources, and properties that are National Register listed or determined eligible. The FEIS must identify actions that will require a Certificate of Approval. • Identification of actions that will require a landmark nomination must be submitted to the Landmarks Preservation Board per SMC 25.12 and SMC 25.05.675H2C. • Identification of TCPs and analysis of impacts to those resources should be included in the FEIS. • Analysis of impacts to areaways, particularly within Pioneer Square. Areways have been evaluated during previous public projects, but those are not referenced in the DEIS. • FEIS must clearly provide analysis of impacts (effects) to historic resources along haul and detour routes. • FEIS must clearly provide analysis of visual, construction and operational impacts (effects) to Seattle Center. Specifically, construction feasibility studies for the Northwest Rooms and Cornish Playhouse to address some of the proposed alterations or nearby construction will be needed. See Attachment K for additional information on Seattle Center. • Specific mitigation options relating to specific impacts to historic resources. It appears that the menu of mitigation options suggested in the DEIS is general rather than specific. 	<p>As requested, Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS.</p>

Attachment I: Business and Residential Displacement

The DEIS Preferred Alternative will acquire up to 516 parcels and displace up to 332 business, 3,000 employees and 1,002 residences throughout the project corridor. Other alternatives have similar impacts. These displacements will have significant impacts on the economic and social vitality of the City, during and after construction of the project. The impacts will be unique across different communities but will be felt hardest by BIPOC and low-income communities. The DEIS does not sufficiently examine the full range of impacts to businesses and residents, including loss of community cultural identity and cohesion resulting from displacements and changes in land use. Expanded evaluation is necessary to fully inform strategies to avoid, minimize, and mitigate these project impacts.

Following are the City’s most notable comments on business and residential displacements. A comprehensive inventory of these issues may be found in the City’s formal DEIS comments in Attachment A: City Consolidated Comments.

Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Business and Employee Impacts. The City finds many instances where additional analysis and mitigation is needed to fully assess project impacts on businesses and employees, including:</p> <ul style="list-style-type: none"> • Business and employee displacement and relocations—in particular, minority-owned businesses and employees—have not been fully evaluated throughout the corridor. 	<p>Please see responses to comments 803, 822, 1541, and 1542 in Attachment A. Capturing information on every potentially impacted business would result in accuracy challenges with the West Seattle Link Extension Final EIS, given that these data are gathered at a point-in-time and businesses are continuously changing. Additionally, this level of detail in a public document may not be appropriate given privacy reasons. However, additional information on businesses that could be difficult to relocate and businesses that are social resources is provided in Sections 4.3, Economics, and 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS.</p>
<p>Demographics of impacted business owners and employees is unknown and should be evaluated in the Environmental Justice Chapter. The DEIS should evaluate impacts on affected industry sectors that employ large percentages of BIPOC and/or low-income persons.</p>	<p>Please see responses to comments 803, 822, 831, 1537, and 1538 in Attachment A.</p>
<p>Temporary revenue and job loss for businesses and employees during construction is significant and should be more fully addressed.</p>	<p>Please see responses to comments 747, 826, 836, and 1542 in Attachment A. Please see response to common comment CC4.3b in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS.</p>
<p>While direct impacts are evaluated in the DEIS (number of parcels and businesses), missing are analyses of indirect and cumulative impacts from business displacement.</p>	<p>Indirect effects from business displacements are discussed in Section 4.3.6 of the Final EIS. Cumulative effects from business displacements are discussed in Section 5.4.4 of the Final EIS.</p> <p>Please see responses to comments 819, 825, 826, and 1541 in Attachment A.</p>

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Comment	Response
The DEIS states that some affected properties such as assistive living and supportive housing and public facilities may be difficult to relocate and require construction of new facilities.	Please see response to comment 31 in Attachment A. Please see responses to common comments CC4.4b and CC4.4d in Table 7-1 in Chapter 7 of the Final EIS.
Water-dependent facilities may not be able to be re-located. A full economic analysis is needed to determine potential mitigation measures and costs associated with each alternative.	Please see responses to common comments CC4.3c and CC4.1d in Table 7-1 in Chapter 7 of the Final EIS.
Additional information is needed to understand indirect and cumulative impacts of land use changes especially to industrial lands.	Please see response to comment 848 in Attachment A. Additional discussion of land use changes in industrial areas has been added to Section 4.2, Land Use, and Section 5.4.3, Cumulative Effects, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided will be provided as part of the environmental review process for the Ballard Link Extension.
The DEIS does not evaluate impacts from COVID-19 on businesses and potential recovery.	Please see Chapter 5, Cumulative Impacts, for discussion of potential cumulative impacts related to the COVID-19 pandemic. A response to this comment related to the Ballard Link Extension will be provided will be provided as part of the environmental review process for the Ballard Link Extension.
An evaluation of the displacement of City facilities and operations is missing or incomplete. Also missing is appropriate mitigation for City facilities and operations (Seattle Animal Shelter, Fire Stations, SCL Substation, Seattle Center, replacement of use of parks property and Seattle Streetcar lines, utility easements).	Please see responses to comments in Attachment F.
<p>Residential Impacts. The City finds many instances where additional analysis and mitigation is needed to fully assess project impacts on residential displacement, including:</p> <ul style="list-style-type: none"> Impacts from displacement of residential property owners and renters, including low-income and BIPOC communities, have not been fully evaluated throughout the corridor. 	<p>In the Final EIS, relocation benefits are discussed in Section 4.1, Acquisitions, Displacements, and Relocations. Impacts to neighborhood cohesion are discussed in Section 4.4. Impacts to low-income populations and communities of color are discussed in Appendix G, Environmental Justice.</p> <p>A response to this comment related to the Ballard Link Extension will be provided will be provided as part of the environmental review process for the Ballard Link Extension.</p>
While direct impacts are included in the DEIS (# of parcels and residential units), missing are analyses of indirect and cumulative impacts from displacement.	Please see response to comment 753 in Attachment A. Please see Sections 4.1.6 and 4.4.6 for discussion of indirect effects and Chapter 5, Cumulative Impacts, for discussion of potential cumulative impacts.
The impact of building acquisitions that could displace Mandatory Housing Affordability (MHA) units needs to be completed.	Section 4.2.1.3 and 4.2.4.3 of the WSBLE Draft EIS stated that the project would not displace Mandatory Housing Affordability (MHA) units based on data provided by the City. This analysis has been updated for the Final EIS based on updated data received from the City.

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Comment	Response
<p>Impacts to affected parcels that currently have rent- and income-restricted housing through Seattle’s Office of Housing’s affordable housing portfolio, other affordable programs, and the Multifamily Tax Exemption Program cannot be addressed because the information for this assessment is missing. Information for rent- and income-restricted housing managed by Seattle Housing Authority is also missing and cannot be addressed.</p>	<p>Section 4.2.4 of the WSBLE Draft EIS disclosed displacement of income restricted units, including properties owned and managed by Seattle Housing Authority, based on data provided by the City. This analysis has been updated for the Final EIS based on updated data received from the City. Please see responses to comments 21, 22, 24, 26, 29, 31, 33, 35, 37, 38, 41, 43, 45, 46, 48, 50, 52, 53, and 54 in Attachment A.</p>
<p>Need to update mitigation measures to ensure construction of the project would comply with federal and local regulations regarding relocation. City of Seattle regulations include Tenant Relocation Assistance Ordinance (22.210) as does the State Relocation Assistance Act (Revised Code of Washington or RCW 8.26).</p>	<p>Please see response to comment 102 in Attachment A. The WSBLE Draft EIS and Final EIS mitigation sections include commitments to meet federal requirements</p>
<p>Safety. Residential and commercial units left vacant prior to demolition or during construction due to displacement may create safety hazards and be vulnerable to illegal activity. These safety concerns and potential for increased crime has not been discussed or evaluated in the DEIS. The FEIS should consider potential mitigation options, including strategies to monitor vacant sites and prevent crime, and identifying agencies or groups responsible for implementation. Sound Transit should work with existing community organizations and partnerships, such West Seattle Junction area’s Business Block Watch (in collaboration with the Seattle PD’s SW Precinct) to develop appropriate strategies.</p>	<p>Please see response to comment 1160 in Attachment A.</p>
<p>Land Use. Additional information is needed to understand the land use impacts during construction such as access closures, loud construction noises, and movement of heavy construction vehicles on the viability of adjacent and nearby land uses in particular street level retail and civic and open space uses that are closely linked to access by pedestrians to visits for leisure. In the C/ID construction would impact and possibly disrupt a concentration of community-oriented civic uses.</p>	<p>Please see response to comment 864 in Attachment A. A response to this comment related to the Chinatown-International District will be provided will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>Next steps. In addition to responding to the City's formal DEIS comments in Attachment A: City's Consolidated Comments, the City would like to partner with Sound Transit on the following actions:</p> <ul style="list-style-type: none">• Develop a broader community development strategy with community, Sound Transit, and other partners for the Chinatown-International District that goes beyond project mitigation to address cumulative impacts and historic harm. See Attachment B for additional information.• Work with affected businesses and residents to understand, minimize, and mitigate the impacts of displacement on community cohesion, encourage community safety and vitality through construction, and promote long-term opportunities for impacted businesses and community members to remain in community.	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS, final design, and construction. A response to this comment related to the CID will be provided will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Attachment J: Mitigation

NEPA requires consideration of direct, indirect, and cumulative impacts of a project on the environment and development of potential measures to mitigate adverse environmental effects. Typically, a DEIS describes options for mitigation, while the FEIS includes the decisions on mitigation to be implemented. However, we found the DEIS to be lacking in consistent and clear mitigation for the potential adverse project impacts, many of which may be unmitigable. Without adequate proposed mitigation, it is not possible to understand the full impact of the project, differences in alternatives, and potential permitting concerns.

There are numerous areas in the DEIS where mitigation measures or strategies are absent or insufficient. Where the DEIS does propose mitigation measures, as in the Transportation chapter, they are not presented comprehensively, but scattered throughout. In Appendix G Environmental Justice, measures or strategies are not described, but only referenced in a table, for example in Table 5-2. The City believes that the level of mitigation in the DEIS is not acceptable for a project of this magnitude. The following are examples of our comments regarding mitigation. A comprehensive inventory of these issues may be found in the City's formal DEIS comments in Attachment A: City Consolidated Comments.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>Business Displacements. The DEIS identifies significant business and employee displacements throughout every segment of the project, 332 businesses and 1,002 residences for the preferred alternative alone. Business displacements throughout the alignment are tremendous, and the DEIS proposes little mitigation. For additional details see Attachment I: Business and Residential Displacements.</p>	<p>See responses in Attachment I. Please see response to CC4.1a in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.</p>
<p>Maritime businesses. The most significant impacts are those to water-dependent facilities that may not be possible to relocate. Impacts to the maritime industry both in the Duwamish and Interbay segments are identified as unavoidable and significant impacts. This is not acceptable to the City. The FEIS should include an economic analysis to fully evaluate the impacts of losing these businesses and to determine potential mitigation measures and costs associated with each alternative.</p>	<p>See response to comments 827, 989, and 1010 in Attachment A. Please see responses to CC4.1d and CC4.3c in Table 7-1 in Chapter 7 of the Final EIS.</p>
<p>Displacement of businesses and cultural anchors in Chinatown-International District. The DEIS does not consider the relationship of displaced businesses to the community, particularly those that serve as cultural anchors in the CID. Their displacement would have ripple effects and impact the vitality of both the local CID community, but also the broader region for which the CID is a cultural hub with a regional draw. The DEIS does not propose sufficient mitigation of these location-sensitive businesses.</p>	<p>See responses to comments 739, 747, 753, 874, 878, and 1424 in Attachment A.</p>

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Comment	Response
<p>Residential Displacements. Mitigation for loss of low-income housing for Delridge alternatives discusses relocation. Missing however, is mitigation for: loss of neighborhood connectivity particularly from removal of housing units as guideways bisect residential streets, and potential adverse property impacts to housing left in the shadow of the guideway. For additional details see Attachment I: Business and Residential Displacements.</p>	<p>See response to comment 876 in Attachment A. See responses to Attachment I.</p>
<p>Transportation. Major transportation impacts from the project will occur during construction. While the DEIS describes where full or partial impacts to arterials will take place, it does not adequately identify detour routes or the adequacy of routes to accommodate increased traffic. These impacts will occur over several years – throughout the City. Mitigation including project phasing and coordination with the City and local transit providers will take a large effort. Development of a draft construction management plan should begin now and refined as part of the FEIS. For additional details see Attachment E: Transportation Impacts.</p>	<p>See responses to Attachment E.</p>
<p>Streetcar. The streetcar cannot be easily rerouted or curtailed without major capital work and associated environmental documentation. This might include installation of temporary tracks, turnbacks, and switches, to maintain access to the fleet and maintenance facilities at Charles Street (FHS) and 318 Fairview (SLU) and provide for safety during such operations. The DEIS does not detail the modifications to the streetcar system that will be needed to provide for continued, if disconnected, service. Mitigation analysis for the streetcar system should include access to maintenance and operation activities for FHS OMF, and the operable components of the system. For additional details see Attachment E: Transportation Impacts.</p>	<p>See responses to streetcar comments in Attachment E.</p>
<p>City Property. Mitigation for direct and indirect impacts to city properties do not include adequate mitigation measures. Replacement of several city properties are missing in the DEIS. For example:</p> <ul style="list-style-type: none"> • Impacts to operations at Seattle Fire Stations 14 and 36 would require temporary or permanent relocation of the stations. This is not addressed in the DEIS. 	<p>As stated in Section 4.2.14.6 of the West Seattle and Ballard Link Extension Draft EIS and in the Final EIS, if relocation of Fire Station 36 is needed, Sound Transit would work closely with Seattle Fire Department officials to identify a suitable property within the surrounding area and ensure operations continue with minimal impacts during relocation. Text has been added to the Final EIS mitigation to note that for the temporary relocation of Station 14 functions, Sound Transit would work closely with Seattle Fire Department officials to identify a suitable property within the surrounding area and ensure operations continue with minimal impacts. See responses to comments 9 and 10 in Attachment A.</p>
<p>Acquisition and relocation of the Seattle Animal Shelter is not addressed in the DEIS.</p>	<p>See responses to comments 1, 3, 4, 6, 11, and 12 in Attachment A.</p>
<p>Relocation of Seattle Center organizations is mentioned, but analysis of suitable locations near/within Seattle Center is not addressed in the DEIS. For additional details see Attachment F: City Assets and Properties.</p>	<p>See response to comment 596 in Attachment A. Please also see responses to Attachment K.</p>

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Comment	Response
<p>Next steps. Constructing a light rail system through existing communities in a built-out city will necessarily cause impacts. Project decisions should be informed by impact and mitigation analyses that help community members and policymakers understand the degree to which those impacts can be avoided, minimized, or mitigated.</p> <p>Between the DEIS and the FEIS, Sound Transit must work with community members, the City, and other stakeholders and partners to develop a comprehensive mitigation analysis and plan with sufficient detail to inform actions on a Project to be built and FTA Record of Decision, and to avoid future delays to project permitting. The mitigation plan should be co-developed with impacted communities, and should explore a wide range of mitigation tools and strategies, including but not limited to:</p> <ul style="list-style-type: none"> • Develop mitigation funding programs • Utilize multi-faceted community stabilization tools • Support community-driven, equitable transit-oriented development <p>The City staff are committed to developing a workplan with Sound Transit to partner in both these analyses and the engagement to inform them.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS, final design, and construction. Please see responses to CC4.1d and CC4.3c in Table 7-1 in Chapter 7 of the Final EIS.</p>

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Attachment K: Seattle Center

For the Seattle Center station, the City is not only a project reviewer and regulator, but also the primary property owner and landlord to the many arts and cultural resident organizations that call the 74-acre campus home. The City has many concerns with the impacts associated with both alternatives, including: impacts to protected features, including legacy trees, historic assets, and public recreation space; temporary and permanent noise and vibration impacts to sensitive cultural venues including performance halls and recording studios; displacement affecting resident organizations and the long-term performance of the Seattle Center campus; impacts to historic assets including the Northwest Rooms, International Plaza, and Cornish Playhouse; and transportation and access impacts affecting events and operations for years. Without further analysis and a mitigation plan it is not possible to fully understand the trade-offs of these alternatives.

The City of Seattle owns and manages Seattle Center. The 74-acre campus is the top visitor destination in the region, with more than 14,000 events presented on the grounds in a typical year. Its origins as an arts and cultural hub for the region date back to 1927. Following its development as the site of the 1962 World's Fair, the campus was dedicated permanently as a City asset, intended to serve as a place for the public to continue to gather and to find common ground by sharing inspiring experiences. Today, the campus is home to several dozen arts, cultural, educational, and recreational organizations – all of which find value in the community created by their proximity to one another. Seattle Center is home to dozens of public artworks and numerous protected historic buildings and sites. Many of the annual programs are free or low-cost. Seattle Center is also a hub where critical services are provided to vulnerable populations as needed.

This central location for recreation, entertainment, and respite is in the heart of Seattle, adjacent to some of the city's densest urban centers. When Seattle Center's master plan was last updated in 2008 – a process that involved years of extensive community engagement and feedback – the consensus supported multi-modal transportation, especially public transit. A light rail station serving Seattle Center is badly needed, and once completed, it will have a transformational effect on the campus and the communities it serves. Planning for this major infrastructure project on the public campus deserves careful consideration to bring about a successful outcome for both the light rail expansion and this unique, historic public facility.

The Seattle Center Department has reviewed the DEIS and the Draft Section 4(f) Evaluation (Attachment H) and finds the proposed DEIS Preferred Alternative (DT-1), to be inconsistent with other fundamental principles of the Master Plan, including the importance of maintaining and expanding open space in the heart of the campus, and ensuring that all capital investments support fulfillment of Seattle Center's mission. In addition, Seattle Center has found that the long-term impacts to its property, its business, and its tenants from construction have not been adequately evaluated. Where impacts are clear, mitigation has not been fully vetted. Seattle Center believes that prudent and feasible alternatives are possible, and that a station serving the campus can be built with fewer impacts than would result from the proposed Preferred Alternative. For these reasons, the City of Seattle encourages the Sound Transit Board to authorize further study of refinement options in collaboration with the City between now and the publication of the FEIS.

Below are examples of where additional information and details are needed for the FEIS in its analysis related to Seattle Center. See *Attachment A* for the complete comments from the City.

1. Transportation

- Multi-year closures of Republican St. (DT-1 Seattle Center), Mercer St. (DT-2 Seattle Center) and Harrison St. (DT-1 SLU) will cause significant impacts to access for Seattle Center and its resident organizations. The DEIS misses the severity of the impacts, and the proposed mitigation is insufficient and inadequate.
- The FEIS should include a visual analysis of pedestrian surges in the pre- and post-even peak travel periods for large events at Climate Pledge Arena, and major festivals at Seattle Center. The visualization is needed to identify the impacts to campus spaces and/or nearby pedestrian infrastructure.

2. Acquisitions, Displacements, and Relocations

- The proposed acquisition of a part of the parcel where Seattle Rep is built (DT-1) will permanently displace campus open space, and spill-out activity around the new station entrance will dramatically limit the many operational and event uses of the Theater Commons at Seattle Center. The DEIS underestimates the severity of the impacts to campus events and operations. It lacks adequate mitigation or a convincing vision for how this station entrance will successfully integrate into the busy campus.
- The DEIS fails to acknowledge or propose mitigation for permanent impact to operation of the Seattle Repertory Theater building from the east entrance of the DT-1 Seattle Center station. Impacts include loss of visibility and access to the lobby and rotunda, and noise from the adjacent station entrance, vents, and other back of house equipment.
- The DEIS fails to acknowledge the severity of long-term temporary displacement of two important campus entrances, access for operations vehicles, access for school buses, artist loading, and other event related needs for Seattle Center and its tenants during construction. The construction footprint will also displace ADA and pedestrian access; loading functions for Seattle Rep, Cornish Playhouse, The Vera Project, and KEXP; ADA parking stalls at 2nd Ave N. and Mercer St. that serve patrons of the theater district; and the Seattle Rep theater main entrance.

3. Economics

- The DEIS fails to acknowledge business impacts throughout the construction period due to reduced attendance at events including campus festivals, public programs, and programs produced by Seattle Center tenants.
- Seattle Center will lose parking revenues throughout the construction period due to road closures on Mercer and Harrison St. Parking revenues are a critical source of operating income for the department.
- The construction footprint of DT-1 will cause operational challenges for organizations who rely on access to Republican, Warren, and 1st Ave N., disrupting their ability to conduct business.
- The construction footprint of DT-2 will cause operational challenges for organizations whose operations and patrons rely on access to Mercer St. Potential permanent business displacement if an organization is no longer able to conduct its business on site due to operational ground-borne noise/vibration impacts DT-1 and DT-2 Seattle Center)

- The DEIS suggests temporary relocation as a mitigation for arts and cultural organizations at Seattle Center who are impacted by construction, including Seattle Rep, Cornish College of the Arts, SIFF, Vera Project, and KEXP. These organizations' ability to do business relies on highly specialized facilities which may not be available elsewhere in Seattle. The mitigation suggested is not thoroughly considered and is inadequate.

4. Noise and Vibration

- The DEIS analysis of construction-related noise and vibration is incomplete. Several sensitive facilities at Seattle Center are not identified. Some of the facilities identified have noise and/or vibration maximum thresholds that are lower than specified in the DEIS. The DEIS analysis fails to fully disclose the severity of construction impacts to Seattle Center and its tenants, and it is lacking adequate mitigation.
- The mitigation proposed in the DEIS may not be adequate to protect the very sensitive venues from operational noise and vibration. The FEIS should consider a higher level of mitigation such as floating slabs or thicker concrete under the tracks (DT-1) or high resilience fasteners (DT-2).

5. Parks and Recreation/Section 4(f)

- Seattle Center Department does not concur with the determination of “de minimis” impacts from the DT-1 Seattle Center Station alternative.
- The DEIS underestimates the severity of construction impacts to Seattle Center and its tenants and does not propose adequate mitigation for the long-term construction impacts to protected public recreational resources.
- The DEIS underestimates the severity of permanent impacts to Seattle Center and its tenants and does not propose adequate mitigation for the permanent displacement of protected public recreational resources.
- The DEIS does not provide adequate analysis to support the determination of “de minimis” impacts to historic public assets at Seattle Center. Further construction feasibility analysis and more detailed mitigation plans are needed for the FEIS.

6. Social Resources

- The DEIS underestimates the severity of construction impacts to Seattle Center and its tenants and does not propose adequate mitigation.
- The DEIS underestimates the severity of permanent impacts to Seattle Center and its tenants and does not propose adequate mitigation for the permanent displacement of campus recreational space and the programs and services produced by tenants.
- The DEIS analysis is misleading when it states that patrons of the DT-2 Seattle Center station alternative would need to cross a major roadway to access the campus. Patrons exiting south of Mercer Street could walk to Seattle Center on Warren Ave. N., which is a quiet street adjacent to the campus.

Next steps. The City and Sound Transit should codevelop a mutually acceptable outline for collaboration between the DEIS and FEIS on the further study of prudent and feasible avoidance alternatives for the Seattle Center station. The City of Seattle looks forward to working with Sound Transit in advance of the FEIS and over the next few years to inform the

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selection of a Preferred Alternative for the FEIS and complete Section 4(f) consultation.

A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.

Attachment L: Planning for Station Access and Transit Integration

WSBLE stations will create new neighborhood mobility patterns as people access new stations on foot, bicycles, and other transit modes. Siting and designing stations for safe non-motorized access and seamless bus-rail integration is necessary for passenger safety, user experience, and overall ridership, and an essential step toward the City’s Vision Zero goals to end traffic fatalities and serious injuries. The DEIS analysis reveals that some alternatives do not optimize access and bus integration. If unaddressed in early project planning, there will be added costs and impacts—in time, dollars, ridership, and human safety—later to the project. It is imperative that in the next phase of station planning and preliminary engineering, Sound Transit, the City, King County Metro, and other agencies work with community to ensure that we design—and in some cases, *refine*—stations to include essential components for safe station access and seamless transit integration.

One of the purposes of the WSBLE project is to “Encourage convenient and safe non-motorized access to stations, such as bicycle and pedestrian connections consistent with Sound Transit’s *System Access Policy* (Sound Transit, 2013).” Below, we describe the importance of optimal station access and transit integration and point to examples of current Link stations that meet or fall short of these goals, and express concerns at some WSBLE station alternatives. While the station design in the DEIS is preliminary, the City believes the system could better meet the project purpose and need by improving station designs now to prioritize safe station access and seamless transit integration and to avoid later costs and impacts.

Response: See responses below. Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>The ideal. Optimal station and entrance siting, along with coordinated bus-rail integration planning between transit agencies and local cities, makes the transit experience seamless to riders. Reducing the friction between connecting modes—not just transit modes like Link light rail, bus, and streetcar, but also walking and rolling—ensures that carbon-free transportation is the simple and easy choice for people travelling in and around Seattle today and into the future. In addition, accessible, organized, and signed pedestrian loading areas provide clear direction to motorists, including taxis, transportation network companies, and shuttles, of where to pick up or drop off passengers proximate to the station. In addition, broader station area design and planning maintains existing loading opportunities for neighborhood businesses and institutions. Link stations with successful access and integration include:</p> <p><u>U District Station.</u> A new transit pathway with trolleywire was constructed along NE 43rd St adjacent to the south station entrance, along with safe protected bicycle facilities east to the UW campus and west to 11th Ave NE.</p> <p><u>Beacon Hill Station.</u> The northbound bus stop is in plain sight directly in front of the station elevators and a neighborhood greenway runs a block away.</p> <p>What to avoid. Alternatively, poor planning, missed opportunities, and awkward connections in transit integration create a negative transfer environment that can take decades to fix, if ever. Spacing modal connections too far apart or out of clear sightlines, requiring</p>	<p>See responses to comment 1532 in Attachment A. Text has been added to Section 4.7, Noise and Vibration, and Appendix N.3, Noise and Vibration Technical Report, regarding noise analysis for bus operations.</p> <p>Sound Transit has continued to work with the City of Seattle and other stakeholders since the WSBLE Draft EIS to refine station locations and designs to maximize ridership, access, and passenger experience.</p> <p>Response to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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Comment	Response
<p>crossing of busy arterials, or leaving ambiguous or confusing transfer messages from the built environment make taking and changing vehicles on transit into a chore. Many riders will disdain these poor connections that they are forced to experience on every journey, or other riders after having been confused once will give up on using transit for that journey going forward. Examples of this sub-optimal access and integration include:</p> <p><u>Mount Baker Station.</u> A separately planned transit center is across busy Rainier Avenue South and hidden by recent transit-oriented development from the main station plaza.</p> <p><u>University of Washington Station.</u> While including some positive features such as a pedestrian bridge and recently added northbound transit-only lane, the station is inherently limited by its siting, surrounded by wide, heavily trafficked arterials, poor adjacent land uses such as landscaping and parking facilities, and long connections to bus bays.</p> <p>WSBLE concerns. The DEIS review revealed several instances where the proposed station siting and design threatens to repeat these past mistakes. In these instances, unsafe or inconvenient access and integration may cause later costs and impacts—in time, dollars, ridership, and human safety—that should be avoided. The DEIS does not adequately evaluate the long-term impacts of poor station siting and design to the system or its users. Examples include:</p> <p><u>South Lake Union.</u> The DT-1 South Lake Union Station at Harrison Street is perfectly oriented to interface with north/south bus service on Aurora and Dexter Avenues, east/west bus service on Harrison Street, and the general walk/bike network throughout South Lake Union. The DT-2 South Lake Union Station at Mercer Street, by contrast, is isolated from connecting modes.</p> <p><u>Delridge.</u> Many of the Delridge Station options require bus service to deviate from Delridge Way. These new bus movements would affect operations on Delridge Way (raising questions about signals, markings, and/or lane priority for transit) and on nearby non-arterial streets (pavement, ped/bike/bus interaction, noise). The effects of these deviations must be identified in the station planning effort and implemented in parallel with station construction, not deferred to station opening.</p>	
<p>Next steps. Additional comments on station access and transit integration related impacts may be found in <i>Attachment E: Transportation Impacts</i>. A comprehensive inventory of these issues may be found in</p> <p>the City’s formal DEIS comments in <i>Attachment A: City Consolidated Comments</i>. In addition to written responses to these comments, the City seeks to work with Sound Transit, King County Metro, other agencies and partners, and community members to correct station design shortcomings for Preferred Alternative stations before the FEIS. This work should consider design modifications including, but not limited to, changes to station entrance siting and vertical circulation, and assumptions about the station context access and integration improvements. Design elements for safe access and integration should not be add-on access improvements later; they should be incorporated and delivered as essential components of the project. Correcting for these design flaws now will help avoid additional time and cost later.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS, final design, and construction.</p>

Attachment M: Community Engagement

The City and Sound Transit have partnered on many engagement opportunities over the last several years to support WSBLE project planning and the DEIS process. City goals for engagement include supporting project decisions and outcomes that are centered in racial equity and that are co-created and truthchecked with community.

Engagement to date. On WSBLE project engagement, the City has offered clear advice on innovative ideas and lessons learned to deliver community engagement centered on racial equity. Sound Transit has embraced several of those practices including advancing a joint Racial Equity Toolkit, engaging with a trusted advocate model—the Department of Neighborhoods Community Liaisons program—and participating in the Jackson Hub work. In 2019 and 2020, Sound Transit conducted a series of workshops with community to advance planning efforts, and Sound Transit has reached out extensively to community to inform residents, businesses owners, and community-based organizations of its plans. In preparation for the DEIS, much of which took place during pandemic constraints on in-person meetings, Sound Transit developed a comprehensive online open house, stood up four geographic Community Advisory Groups with monthly livestreamed meetings to reach people at home, and developed a DEIS reader’s guide, trans-created into multiple language, to support community access to the DEIS analyses.

Opportunities to improve engagement. While these strategies and tactics have been important in supporting community involvement in the DEIS process, the City has heard a need from community for greater transparency, collaboration, and accountability in the engagement moving forward. The DEIS does not clearly demonstrate two-way engagement by showing what Sound Transit has heard from community, and critically, how Sound Transit will respond to that engagement through project decisions. A notable exception has been the quality, two-way engagement in forums with the resident organizations at Seattle Center. The City would like to partner with Sound Transit for similarly responsive engagement activities in other parts of the WSBLE corridor, especially the RET-priority communities of Chinatown-International District and Pioneer Square station, and the Delridge station area and transit corridor to the south.

Responses to comments related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.

Comment	Response
<p>The City offers many comments relating to community engagement in Attachment A: City Consolidated Comments. Priority comments include:</p> <ul style="list-style-type: none"> Appendix F1 lays out three engagement goals for the WSBLE project. The City requests that Sound Transit add a fourth goal to explicitly reflect engagement findings and demonstrate how community feedback will be incorporated in the development of the project. (Appendix F1) City requests that Sound Transit align values and guiding principles articulated both by community and in the Partnering Agreement with the City to build a process and engagement framework. Methods of engagement need to be aligned with and specific for each community’s needs. (Appendix F5.3) 	<p>It is not necessary to add a fourth goal. Objective D for Goal 3 relates to public input and how it is considered in the decision-making process. Sound Transit has and will continue to work with the community throughout the development of the WSBLE Draft EIS and West Seattle Link Extension Final EIS, final design, and construction. Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, of the Final EIS for more information on community engagement activities.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

Comment	Response
<p>Next steps. Sound Transit has committed to continuous improvement of its processes at all phases of the project to achieve its goals. This is a critical moment to reflect on lessons learned with the City and community, and to realign around community collaboration to support upcoming project milestones. These next steps for the project—including the Board action on a Preferred Alternative, development of a mitigation plan and other analysis and issue resolution in advance of the FEIS, and exploration of refinements to the DEIS alternatives—must be carried out in partnership with community through sustained and robust two-way engagement. It is critical the engagement be transparent by sharing out what Sound Transit is hearing from community and stakeholders, as well as how the agency is applying engagement findings to project decisions.</p> <p>To accomplish this, methods of engagement should be tailored for different communities; what will work for Downtown or Seattle Center might not work in Chinatown-International District or Delridge.</p> <p>For the latter two communities, both prioritized in the RET, the City supports focused engagement efforts in the coming year. In Chinatown-International District, the City believes before an action on a Preferred Alternative there should be additional community process and analysis on how to avoid/minimize impacts, advance RET outcomes, and address historic harm. In Delridge, the City would like to see additional effort to engage the communities further south in the corridor who will access the Delridge station through critical bus-rail integration. See Attachment B: Racial Equity Toolkit and Environmental Justice for additional discussion.</p> <p>The City offers resources and assistance, including Seattle Office of Civil Rights Relational Framework, Creative Placekeeping Framework developed for SPU, and SDOT’s Transportation Equity Program, to support the engagement process. Community in the CID has developed the CID Community Advocacy Model as an engagement resource. The City looks forward to partnering in this engagement work, through both the FEIS development process and the update to the Racial Equity Toolkit.</p>	<p>Sound Transit has coordinated and will continue to coordinate with the City regarding the above items throughout the development of the Final EIS, final design, and construction. Please see Appendix F of the Final EIS for an updated list of public involvement on this project, including outreach to communities farther south of the study area.</p>

Exhibits

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City of Seattle Comments on the West Seattle and Ballard Link Extensions (WSBLE) Project Draft Environmental Impact Statement

Exhibits 1-3

April 28, 2022

Contents:

- Exhibit 1: Event uses throughout Seattle Center campus and facilities in a typical year
- Exhibit 2: Event-related curbside loading uses on streets near the Seattle Center campus
- Exhibit 3: WSBLE DEIS Noise and Vibration Review Report for Seattle Center

Exhibit SC-1

Event uses throughout Seattle Center campus and facilities in a typical year

This exhibit contains records from Seattle Center’s event booking system, intended to show the broad variety of event-related uses produced on Seattle Center property in a typical year. Event activities occur virtually every day of the year, and frequently occur during daytime as well as evening hours.

The comprehensive list includes event days and move-in and move-out days reserved between January 1 - December 31, 2019. We chose a year prior to the COVID-19 pandemic because event business is still in a period of pandemic recovery.

Climate Pledge Arena events are excluded from this list, due to the construction of the Seattle Center Arena Renovation Project which closed KeyArena at the end of 2018. The reopened Climate Pledge Arena has not yet been operating for a full year; however, the Seattle Center Arena Renovation Project Final Environmental Impact Statement (2018) anticipated that the redeveloped Arena would host 242-257 events annually, with seating capacities ranging from approximately 17,300 for hockey games to approximately 18,600 for basketball games, and up to approximately 18,800 for concert configurations. More updated information may be available directly from Climate Pledge Arena for the purposes of FEIS analysis

City of Seattle
Bruce Harrell, Mayor

Seattle Center
Robert Nellams, Director

ARTS / VENUES

A/NT Gallery
Book-It Repertory Theatre
Classical KING FM
KCTS 9/Crosscut
KEXP 90.3 FM
Pacific Northwest Ballet
Seattle Children’s Theatre
Seattle Opera
Seattle Rep
Seattle Shakespeare Company
SIFF Film Center
TeenTix
Theatre Puget Sound
The Vera Project

ATTRACTIONS / VENUES

Armory / Food & Event Hall
Artists at Play Playground & Plaza
Bill & Melinda Gates Foundation
Discovery Center
Chihuly Garden and Glass
Climate Pledge Arena
Cornish Playhouse
International Fountain
Marion Oliver McCaw Hall
Museum of Pop Culture (MoPOP)
Opera Center
Pacific Science Center
Seattle Center Monorail
Seattle Center Skate Plaza
Seattle Children’s Museum
Space Needle

EDUCATION

Academy of Interactive
Entertainment
The Center School
Cornish College of the Arts

PROGRAMS & EVENTS

Artists at the Center
Bite of Seattle
Bumbershoot®
Community Created Events
Concerts at the Mural
Festál Cultural Festivals
Fitness Programs
Movies at the Mural
Northwest Folklife Festival
Seattle International Film Festival
Seattle/King County Clinic
Seattle PrideFest
Winterfest

SPORTS

Seattle Kraken (NHL)
Seattle Storm (WNBA)
Seattle U Men’s Basketball

Accommodations
for people with
disabilities provided
on request

Exhibit SC-2

Event-related curbside loading uses on streets near the Seattle Center campus

More than 14,000 events are produced on the Seattle Center campus in a typical year. Curbside loading is a vital part of the infrastructure needed to support safe and successful event and festival production. These uses will be impacted during WSBLE DT-1 and DT-2 construction, and will require mitigation in coordination with Seattle Center and SDOT.

Seattle Center cooperates with the Seattle Department of Transportation (SDOT) on curbside use reservations according to the terms of the SDOT/Seattle Center Memorandum of Agreement for Event Curbside Management (MOA). The MOA was updated and re-executed in 2021 following the reopening of Climate Pledge Arena.

This exhibit contains a diagram showing the rights-of-way near Seattle Center where event-related vehicle staging occurs in accordance with the MOA. It also contains records of Seattle Center curb use reservations for a full year in 2017, prior to the start of Climate Pledge Arena construction, and for a partial year in 2022, following the update of the SDOT/Seattle Center MOA.

Below are some key takeaways from this data:

- Republican St between 1st Ave N & Warren Ave gets used on nearly a daily basis to support KEXP in-studio and Vera Project performers
- Major festivals tend to utilize nearly every available block around campus. Curb use is vital to these Festivals, as it provides spaces to stage production vehicles, performer vehicles, vendor vehicles (which need to be close to facilitate restocking booths during Festival hours), and things like refrigerated trucks/ice trucks. Curb use is critical to support festival production because the pedestrian-oriented Seattle Center campus does not have ample space to facilitate all event-related vehicle needs, nor would it be safe or visually appealing to do so. Festivals include:
 - NW Folklife – Memorial Day weekend in May
 - PrideFest – last weekend in June
 - Bumbershoot – Labor Day weekend in August/September
 - SeaFair TorchLight Parade

City of Seattle
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SIFF Film Center
TeenTix
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Discovery Center
Chihuly Garden and Glass
Climate Pledge Arena
Cornish Playhouse
International Fountain
Marion Oliver McCaw Hall
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Fitness Programs
Movies at the Mural
Northwest Folklife Festival
Seattle International Film Festival
Seattle/King County Clinic
Seattle PrideFest
Winterfest

SPORTS
Seattle Kraken (NHL)
Seattle Storm (WNBA)
Seattle U Men's Basketball

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- 2nd Ave N between Thomas & John Streets is sometimes utilized to create space for trucks to be able to access the Seattle Children's Theater's loading dock to support performances
- Since reopening, Climate Pledge Arena is focusing on keeping trucks and buses out of the Lower Queen Anne/Uptown area. However, major tours that travel with 20+ trucks/buses typically need to utilize a few blocks around campus, often accommodated on 4th & Republican, and the east side of 2nd Ave between Thomas & John Streets
- The Opera also utilizes 4th & Republican to facilitate loading in/out shows throughout its season
- Some blocks around campus are reserved for school bus parking during daytime hours (these are highlighted on the MOA diagram)

Exhibit SC-3
WSBLE DEIS Noise and Vibration Review Report for
Seattle Center by Landau Associates



April 20, 2022

Seattle Center
305 Harrison St
Seattle, Washington 98109

Attn: Julia Levitt

Transmitted via email to: Julia.Levitt@seattle.gov

Re: Sound Transit WSBLE DEIS Review
Seattle, Washington
Project No. 2051001.010

Dear Julia:

Landau Associates Inc. (Landau) has prepared the following summary of our assessment of the noise and vibration sections of the Sound Transit West Seattle and Ballard Link Extensions (WSBLE) Draft Environmental Impact Statement (DEIS).

Seattle Center is a 74-acre public campus owned and managed by the City of Seattle's Seattle Center Department. The campus comprises public recreational space with features such as interactive fountains, displays of public art, and a skate plaza. It also includes numerous highly specialized facilities such as theaters, concert halls, and rehearsal spaces; studios for radio, film, and television production; museums; and special-event venues. Many of these facilities are operated by nonprofit organizations that are tenants of Seattle Center. Seattle Center and its tenants, known as its resident organizations, have raised concerns about noise and vibration from construction and operation of the proposed Sound Transit WSBLE project.

Seattle Center has retained Landau noise and vibration expert consultants to review the WSBLE DEIS and provide comment on the document's accuracy and completeness regarding assessment of noise and vibration impacts.

Following is our review of the WSBLE DEIS as it relates to the potential for noise and vibration impact to Seattle Center facilities and resident organizations. Provided is a summary of findings, a list of documents that were reviewed for this letter, and a detailed review of select chapters of the DEIS.

Summary

Landau finds the assumptions and methods used by Sound Transit to analyze noise and vibration impacts to be reasonably correct. However, Landau finds some elements of the WSBLE DEIS analysis to be incomplete and/or incorrect. These missing or incorrect analysis elements result in an incomplete assessment of noise and vibration impacts and mitigation. The following summarizes our key findings of this review:

- City of Seattle noise limits are not applied in the noise impact section when determining the potential for noise impacts and whether additional mitigation is warranted.
- Edits to the document are required to correct for incorrect noise and vibration limits for some facilities; these corrections will result in higher levels of impact at some sensitive receivers.
- There are missing receptors, including entire resident organizations and sensitive spaces within known resident organizations at Seattle Center as well as at select outdoor venues at Seattle Center.
- The assessment of airborne noise impacts during construction is incomplete.
- An assessment of mitigation measures is required for airborne noise impacts expected at multiple noise-sensitive facilities within Seattle Center as well as at select outdoor venues at Seattle Center.
- Additional assessments of groundborne noise and vibration impacts from construction is warranted to fully address potential impacts from both DT-1 and DT-2.
- Additional assessment of groundborne noise and vibration mitigation measures from construction is warranted to fully address impacts from both DT-1 and DT-2.
- The surface construction vibration impact and mitigation assessment is incomplete.
- Station construction methods for DT-1 include breaking a slurry wall with a hoe ram, a potential major source of groundborne noise and vibration that was not evaluated.
- East Station entrances would be located immediately adjacent to Seattle Rep and Cornish Playhouse; groundborne noise, vibration, and surface noise impacts are not fully evaluated.
- Operational groundborne noise impacts warrant additional mitigation for DT-1 beyond high resilience fasteners and beyond the linear extents identified in the DEIS.

Review Documents

Landau reviewed the following documents in support of this review letter report:

- Sound Transit and Federal Transit Administration's (FTA's) West Seattle and Ballard Link Extensions Draft Environmental Impact Statement (DEIS), Chapter 4.2.7 *Noise and Vibration* (pp. 4.2.7-1 to 4.2.7-23)
- Sound Transit and FTA's West Seattle and Ballard Link Extensions DEIS, Appendix N.3, *Noise and Vibration Technical Report*
- Sound Transit and FTA's West Seattle and Ballard Link Extensions DEIS, Attachment N.3A, *Noise Measurement Data, Site Details, and Photographs*
- Sound Transit and FTA's West Seattle and Ballard Link Extensions DEIS, Attachment N.3B, *Vibration Measurement Site Photographs*
- Sound Transit and FTA's West Seattle and Ballard Link Extensions DEIS, Attachment N.3C, *Vibration Propagation Measurement Results*
- Sound Transit and FTA's West Seattle and Ballard Link Extensions DEIS, Attachment N.3D, *Maps of Noise Impact Assessment*

- Sound Transit and FTA’s West Seattle and Ballard Link Extensions DEIS, Attachment N.3E, *Maps of Vibration Impact Assessment*
- Sound Transit and FTA’s West Seattle and Ballard Link Extensions DEIS, Attachment N.3F, *Tables of Noise Predictions*
- Sound Transit and FTA’s West Seattle and Ballard Link Extensions DEIS, Attachment N.3G, *Tables of Vibration Predictions*
- Sound Transit and FTA’s West Seattle and Ballard Link Extensions DEIS, Attachment N.3H, *Vibration Analysis of Category 1 Land Uses and Special Buildings*
- FTA’s *Transit Noise and Vibration Impact Assessment Manual*, (September 2018; FTA Guidance Manual)
- Sound Transit’s Design Criteria Manual, Revision 5, Amendment 11, (May 2021).

Review Format

The following review is focused on chapters within the WSBLE DEIS that are relevant to the assessment of noise and vibration impacts from DT-1 and DT-2. Headings that begin with “Chapter” refer to the corresponding chapter within WSBLE DEIS Appendix N.3, *Noise and Vibration Technical Report*.

Chapter 3. Noise and Vibration Impact Criteria

The WSBLE DEIS applies the noise and vibration impact criteria established for transit projects according to the FTA Guidance Manual. Sound Transit is a public transit authority that receives federal funding to support its projects. Landau finds the use of the FTA criteria is appropriate for the assessment of noise and vibration impact from this project. However, as detailed below, the FTA noise and vibration limits that were applied to some sensitive receiving spaces were incorrect

WSBLE DEIS Appendix N.3, Chapter 3.1.3 identifies the City of Seattle noise criteria, as established in Seattle Municipal Code (SMC) Chapter 25.08. SMC noise limits are applicable during daytime and nighttime hours for various source and receiving “Districts.” Further, SMC 25.08 includes sound level limits that apply specifically to construction. Landau finds the DEIS interpretation of the City’s noise criteria to be correct.

Landau finds that the assessment does not identify impacts relative to the City’s noise criteria. That is, the assessment is focused only on FTA criteria (that are applicable) and whether construction or operation would meet FTA criteria. The assessment refers to the required compliance with City of Seattle construction noise limits in WSBLE DEIS Appendix N.3, Chapter 7, Construction Noise Mitigation (p. 7-16), but not when evaluating the potential for noise impacts through Seattle Center. Because City of Seattle construction noise limits apply to this project, the noise assessment should consider whether construction noise is expected to meet these limits. If the project cannot meet these limits, sufficient noise mitigation measures should be required; otherwise, alternative construction methods should be explored.

Chapter 4. Noise and Vibration Impact Analysis Assumptions and Methods

WSBLE DEIS Appendix N.3, Chapter 4 summarizes the analysis assumptions and the methods for assessment of noise and vibration impacts. This chapter reviews multiple elements that are considered when predicting noise and vibration emissions from light rail projects and includes results of vibration propagation testing and discusses noise and vibration measurements made by Sound Transit to support the noise and vibration impact assessment. Landau finds the impact analysis assumptions and methods to be reasonably correct.

Chapter 6. Impact Assessment

The following summarizes Landau's review of the WSBLE DEIS impact assessment of DT-1 and DT-2, including airborne noise from construction and groundborne noise and vibration from construction and operation, as received at Seattle Center resident organizations. Included as an Attachment A to this letter is a map of the Seattle Center campus that illustrates the locations of DT-1 and DT-2, including rail alignments, stations, and station entrances, as well as Seattle Center resident organizations, facilities, and outdoor areas.

Noise and Vibration Limits

WSBLE DEIS Appendix N.3, Chapter 6.4 (p. 6-63) indicates that noise and vibration from construction, including tunneling (cutterhead and supply train) and surface construction were evaluated against the same FTA operational noise limits "because this can be a relatively long-term activity." Landau agrees with this determination.

Landau notes that the noise limits provided in WSBLE DEIS Appendix N.3 are generally correct for most resident organizations within the Seattle Center. However, some discrepancies, errors, and omissions were noted. Table 2 of this letter (p. 5) summarizes the noise and vibration limits applied for each space, highlighting discrepancies or errors that require correction or further assessment. The list of noise and vibration limits for Seattle Center resident organizations is compiled from DEIS Appendix N.3 Attachment N.3H Tables 6-2 and 6-3 (McCaw Hall, Pacific NW Ballet, and Seattle Opera), Tables 7-2 and 7-3 (Cornish Playhouse and Seattle Rep), and Tables 8-2 and 8-3 (Vera Project, SIFF Film Center and KEXP). If a different noise or vibration limit was identified in another table within WSBLE DEIS Appendix N.3, it is noted in the center columns of Table 2 of this letter.

Noise and Vibration Limits – Discrepancies

WSBLE DEIS Appendix N.3, Section 6.3, Tables 6-13 and 6-14 identify operational groundborne noise and vibration limits for DT-1 and DT-2, respectively. For some facilities, the operational groundborne noise and vibration limits are expanded to consider different rooms within the facility. These expanded tables are found in WSBLE DEIS Appendix N.3, Attachment N.3H, and include Tables 6-2, 6-3, 7-2, 7-3, 8-2, and 8-3. For example, in Table 6-13 KEXP is identified as "KEXP DJ Booth". In Attachment N.3H, Table 8-2, KEXP spaces include the DJ Booth, Studio, and Mastering Suite.

WSBLE DEIS Appendix N.3, Section 6.4.1, Tables 6-25 and 6-27 identify vibration and groundborne noise limits for construction, respectively.

As noted above, the WSBLE DEIS indicates that groundborne noise and vibration from operation and construction were evaluated against the same FTA criteria. However, in review of groundborne noise and vibration limits provided in the tables identified above, Landau finds that there are discrepancies regarding groundborne noise and vibration limits for some facilities. That is, for some facilities, different groundborne noise and/or vibration limits were applied for construction and operation. For each instance where a discrepancy was found, the operational groundborne noise and vibration limits are correct, and the differing limits in Table 6-25 and/or 6-27 (construction vibration and groundborne noise, respectively) are incorrect. These discrepancies are summarized below in Table 1.

Table 1. Summary of DEIS Discrepancies, Noise and Vibration Limits

Resident Organization	DEIS Limits for Operation		DEIS Limits for Construction		Explanation of Discrepancy	
	Noise (dBA)	Vibration (VdB)	Noise (dBA)	Vibration (VdB)	Noise	Vibration
Pacific Northwest Ballet Studios	35 ¹	72 ¹	40 ³	78 VdB ⁴	Construction Limit is 5 dBA above Operation Limit	Construction Limit is 6 VdB above Operation Limit
Vera Project Performance Space	35 ²	72 ²	40 ³	-	Construction Limit is 5 dBA above Operation Limit	n/a
Vera Project Recording Space	30 ¹	72 ¹	40 ³	-	Construction Limit is 10 dBA above Operation Limit	n/a
SIFF Film Center Theater	35 ¹	72 ¹	40 ³	-	Construction Limit is 5 dBA above Operation Limit	n/a

¹ Sound Transit WSBLE DEIS Appendix N.3, Tables 6-13 and 6-14
² Sound Transit WSBLE DEIS Appendix N.3, Attachment N.3H, Table 8-2 and 8-3
³ Sound Transit WSBLE DEIS Appendix N.3, Tables 6-27
⁴ Sound Transit WSBLE DEIS Appendix N.3, Tables 6-25

As summarized in Table 1, operational vibration and groundborne noise limits for several receivers differ from what is identified in Tables 6-25 and 6-27, respectively, of WSBLE DEIS Appendix N.3. Regarding vibration, the limit identified for the Pacific Northwest Ballet (Phelps Center) is 78 vibration decibels (VdB) in Table 6-27. The correct limit should be 72 VdB, consistent with the limit for this receiver in Tables 6-13 and 6-14 for operational vibration impacts, and consistent with the FTA “Special Building” vibration impact criteria for “theaters” (see DEIS Appendix N.3, Table 3-8).

Regarding groundborne noise, the limits identified for the Pacific Northwest Ballet, Vera Project (performance and recording spaces) and the Seattle International Film Festival (SIFF) Film Center

theater are 40 A-weighted decibels (dBA) in Table 6-27 (tunneling groundborne noise impacts table). These limits are inappropriate for the uses, and the assessment of impact based on these limits is, therefore, incorrect or misleading.

At the SIFF Film Center, correcting the groundborne noise limit to 35 dBA (as identified for light rail operation in Table 6-13) would result in predicted groundborne noise impacts due to supply train operation during tunneling (see DEIS Appendix N.3, Table 6-27). That is, an adjusted limit of 35 dBA would fall below the predicted level of 37 dBA, whereas the incorrect limit of 40 dBA is above the level. Currently, Table 6-27 does not identify impacts at the SIFF Film Center. See the following section and Table 2 for a justification to lower this limit even further to 30 dBA.

Noise and Vibration Limits – Corrections

Landau notes that adjustments to some limits are warranted following measurements by Landau staff and review of the noise and vibration-sensitive nature of select spaces. That is, for many facilities and resident organizations at Seattle Center, a quiet environment is germane to their use. Noise intrusion, such as low-frequency groundborne noise “rumbling” from nearby surface construction, tunneling, and rail operations, may negatively affect the facility’s use or audience experience. Vibration impacts, even at low levels, can affect a facility’s suspended lighting systems or film projectors.

If an adjustment to a groundborne noise or vibration limit is recommended by Landau, the correct limit is identified in the center two columns of Table 2 (p. 7 of this letter). Justifications for adjusted groundborne noise or vibration limits are included in the final column Table 2 and detailed further in the text following this table.

Table 2. Summary of Noise and Vibration Limit Corrections

Resident Organization	Limits for Operation and Construction ¹		Corrections (Source of Adjusted Limits) ²		Notes Justification for Adjusted Limits
	Noise (dBA)	Vibration (VdB)	Noise (dBA)	Vibration (VdB)	
McCaw Hall Main Hall	25	65	-	-	-
McCaw Hall Lecture Hall	30	72	-	-	-
Exhibition Hall in Pacific Northwest Ballet Basement	30	72	-	-	-
Pacific Northwest Ballet Studios	35	72	-	-	-
Seattle Opera Concert Hall	25	65	-	-	-
Seattle Opera Rehearsal Hall	30	72	-	-	-
Seattle Opera Broadcast Booth (King FM)	25	65	-	-	-
Cornish Playhouse Theater	35	72	-	65 VdB ³	Vibration limit is appropriate for “Concert Hall” per FTA Guidance Manual. DEIS noise limit appropriate, confirmed through Landau measurements
Seattle Rep Bagley Wright Theater	35	72	-	65 VdB ⁴	Vibration limit is appropriate for “Concert Hall” per FTA Guidance Manual. DEIS noise limit appropriate, confirmed through Landau measurements
Seattle Rep Leo K. Theater	35	72	25 dBA ⁴	65 VdB ⁴	Noise and vibration limits are appropriate for “Concert Hall” per FTA Guidance Manual, confirmed through Landau measurements
Vera Project Performance Space	35	72	-	-	-
Vera Project Recording Space	30	72	-	-	-
SIFF Film Center Theater	35	72	30 dBA ⁴	65 VdB ⁴	Noise limit is appropriate per Landau and DEIS measurements. Vibration limit is appropriate for “Auditorium” per FTA Guidance Manual, confirmed through Landau measurements
KEXP DJ Booth	25	65	-	-	-
KEXP Studio	25	65	-	-	-
KEXP Mastering Suite	30	72	25 dBA ⁴	65 VdB ⁴	Noise and vibration limits are appropriate for “Recording Studio” per FTA Guidance Manual, confirmed through Landau measurements

¹ Sound Transit WSBLE DEIS Appendix N.3, Attachment N.3H, Tables 6-2 6-3, 7-2, 7-3, 8-2, and 8-3.

² Based on measurements made by Landau staff for Seattle Center in early 2022.

³ Based on measurements made by Landau staff in 2021 and early 2022 under separate Landau contracts to Seattle Center resident organizations (Seattle Rep, SIFF, and KEXP). Data was shared with Seattle Center with permission of these organizations.

Cornish Playhouse

At the Cornish Playhouse, vibration measurements at the Main Auditorium by Landau staff in January 2022 indicate that a more appropriate vibration limit is 65 VdB (i.e., not 72 VdB). The adjusted and more stringent vibration limit would be appropriately evaluated under FTA criteria as a “Concert Hall” (similar to McCaw Hall and the Seattle Opera Concert Hall), reducing the potential for vibration impacts at the Main Auditorium including stability of lighting systems and the potential for perceptible groundborne noise during performances.

Seattle Rep

At the Seattle Rep, measurements at the Leo K. Theater by Landau staff in January 2022 suggest that a more appropriate limit is 25 dBA, aligning with FTA criteria for a “Concert Hall” (similar to McCaw Hall and the Seattle Opera Concert Hall). Although measurements made for the DEIS and documented in WSBLE DEIS Appendix N.3, Attachment N.3H Table 7-1 (p. 7-3) were 30 dBA for the Leo K Theater (which are still 5-dBA lower than what was applied in Tables 6-13 and 6-14), ambient measurements by Landau were 26 dBA and align with the suggested adjustment to a limit of 25 dBA. Further, Landau notes that Seattle Rep’s experience during construction of the Climate Pledge Arena indicates that the Leo K. Theater is highly sensitive to groundborne noise intrusion due to the very low ambient noise levels within the theater and the sensitive use of this space (i.e., unamplified performances).

Similarly, the vibration limit at Seattle Rep is identified as 72 VdB in DEIS Attachment N.3, Tables 6-13 and 6-14. A more appropriate limit for Seattle Rep, including both the Leo K. Theater and Bagley Wright Theater, is 65 VdB, which also aligns with FTA criteria for a “Concert Hall”. In addition to groundborne noise impacts during construction of the Climate Pledge Arena, vibration impacts from this same construction resulted in movement (i.e., swaying) of lighting systems. An adjusted and more stringent vibration limit should apply to the Leo K. Theater and Bagley Wright Theater, reducing the potential for vibration impacts, including stability of lighting systems on these stages.

SIFF Film Center

At the SIFF Film Center theater, noise levels measured by Landau staff in 2022 were 31 dBA, the same level measured by Sound Transit and documented in the DEIS (see DEIS Appendix N.3, Attachment N.3H, Table 8-1, p 8-4). Based on ambient noise measurements made for the DEIS and by Landau, a noise limit of 30 dBA at the SIFF Film Center would be most appropriate, especially given the low-frequency characteristics of groundborne noise compared with the ambient environment inside the SIFF Film Center. This adjusted noise limit aligns with the FTA criteria for an “Auditorium”.

Ambient measured levels of vibration made by Landau at the SIFF Film Center were well below 65 VdB, which supports the measurement data reported in WSBLE DEIS Appendix N.3, Attachment N.3H, Table 8-1 (i.e., 54 VdB). Applying a limit of 72 VdB (the FTA criteria for an “Auditorium”) is not appropriate; a more appropriate limit for the SIFF Film Center is 65 VdB, which aligns with the FTA criteria for a “Concert Hall”. Landau recognizes that this space is a theater and not a concert hall,

however the SIFF Film Center's projector is highly sensitive to impact from vibration, which can result in film projections that are not stable, negatively impacting the audience experience. Applying a limit of 65 VdB would ensure that the theater's existing ambient environment is maintained for its intended use.

KEXP

For the KEXP mastering suite, WSBLE DEIS Appendix N.3, Attachment N.3H, Tables 8-2 and 8-3 identify a groundborne noise limit of 30 dBA. This limit is higher than what was identified for the KEXP DJ Booth and Studio (25 dBA), presumably because it was unknown to Sound Transit that the mastering suite is used for audio recording. The suite (now divided as two separate production rooms that include audio recording operations) should be evaluated against the 25-dBA noise limit because it is used for noise-sensitive audio recordings. If adjusted, groundborne noise from light rail operation under the preferred alternative DT-1 would exceed the 25 dBA limit by 10 dBA (see WSBLE DEIS Appendix N.3, Attachment N.3H, Tables 8-2). Note that Landau conducted ambient noise measurements of the existing Production Room 1 (former mastering suite) that confirmed lower ambient noise levels at 27 dBA. A limit of 25 dBA therefore is reasonable for this space.

Similarly, the vibration limit at KEXP's mastering suite is identified as 72 VdB in WSBLE DEIS Attachment N.3, Appendix N.3H, Tables 8-2 and 8-3. A more appropriate limit for the KEXP production rooms (former mastering suite) is 65 VdB, consistent with other spaces within KEXP where audio recording occurs, and consistent with measurements documented in WSBLE DEIS Attachment N.3, Appendix N.3H, Table 8-1, and confirmed by Landau staff in 2021.

Noise and Vibration – Missing Sensitive Receivers

WSBLE DEIS Appendix N.3 omits several noise-sensitive buildings and uses within the vicinity of the DT-1 and DT-2 cut-and-cover station and alignment routes within Seattle Center. Table 3 of this letter (p. 10) provides a summary of facilities and spaces that are not included in the DEIS but that should be considered for assessment of potential for noise and vibration impacts from DT-1 or DT-2.

Table 3. DEIS Appendix N.3 Missing Seattle Center Noise and Vibration Sensitive Receivers

Resident Organization Buildings	Suggested Noise and Vibration Limits ¹		Summary of Use	Potential Source(s) of Noise or Vibration Impact ²
	Noise (dBA)	Vibration (VdB)		
Seattle Rep Leo K. Rehearsal Space	30	65	Rehearsal space for Leo K. Theater; quiet is germane to use	DT-1 and DT-2 surface construction and tunneling; DT-1 and DT-2 operation
Seattle Rep Poncho Forum	30	72	Rehearsal and performance space; quiet is germane to use	DT-1 and DT-2 surface construction and tunneling; DT-1 and DT-2 operation
KEXP Audio Editing Suites	25	65	Audio editing and recording spaces	DT-1 surface construction and tunneling; DT-1 operation
Museum of Popular Culture (MoPOP)	35	72	Live performances, studios, museum galleries	DT-1 tunneling
Memorial Stadium	40	-	Live outdoor music and sporting events	DT-1 tunneling
Climate Pledge Arena	35	72	Live indoor music and sporting events	DT-1 tunneling
A/NT Art Gallery ³	35	72	Art gallery where high vibration can impact use	DT-1 surface construction and tunneling
International Fountain Lawn	FTA Category 1 Noise Limits ⁴		Recreational Outdoor Use Area	DT-1 surface construction
Theater Commons				DT-2 surface construction
International Plaza				DT-1 surface construction
Fisher Lawn				DT-1 surface construction
Founders Court				DT-1 and DT-2 surface construction
Kreielsheimer Promenade				DT-1 and DT-2 surface construction
Mural Amphitheater				DT-1 surface construction

¹ Suggested limits based on use of space and sensitivities to noise and vibration.

² Potential for impact may be due to activities identified in this table and may also include activities not identified here. Full assessment required.

³ Identified in WSBLE DEIS Chapter 6.2.3.2, p. 6-38: "Cut-and-cover construction of the Seattle Center Station for Preferred Alternative DT-1 would likely result in noise impacts at the Northwest Rooms at Seattle Center, which house several noise-sensitive spaces including ... A/NT Art Gallery." No further assessment of potential impact.

⁴ Outdoor use areas at Seattle Center are subject to FTA noise limits for a Category 1 receiver. Applicable noise limits are based on ambient levels; the City of Seattle construction noise limits identified in the Seattle Municipal Code (SMC) Chapter 25.08 also apply.

As identified in Table 3, Landau recommends including several outdoor use areas at the Seattle Center, each considered sensitive outdoor receivers that may be impacted by airborne noise during construction of either DT-1 or DT-2. These spaces are classified as FTA Category 1 noise-sensitive

receivers. FTA defines Category 1 receivers as “Land where quiet is an essential element of its intended purpose. Example land uses include preserved land for serenity and quiet, outdoor amphitheaters and concert pavilions, and national historic landmarks with considerable outdoor use.” The following identifies the outdoor use areas that warrant consideration of impacts from the Sound Transit WSBLE project:

International Fountain Lawn

The International Fountain Lawn at Seattle Center is used for events such as Folklife and others and is accessible year-round for public enjoyment of this open space. The International Fountain Lawn is located immediately southwest of the DT-1 construction area and would be impacted by surface construction noise, including high levels of noise during initial phases of demolition and construction for DT-1.

Theater Commons

Theater Commons is located between the Seattle Rep and Cornish Playhouse. This area is a gathering space and entrance to Seattle Center during events and daily use. Although the Theater Commons would be inaccessible during construction of DT-1, it may be impacted by DT-2 construction noise.

International Plaza

Also known as the Northwest Courtyards, the International Plaza is a hardscape area between the Northwest Rooms and Climate Pledge Arena. Northwest Courtyards will be used by KEXP to host future outdoor performances. This area also includes the historic DuPen Fountain, a popular family recreation spot in the summer, and is used heavily during campus events and festivals. This area is likely to be impacted by DT-1 construction noise.

Fisher Lawn

The Fisher Lawn is located south of the International Fountain, north of the Fisher Pavilion. This space is often used for events such as speeches and outdoor concerts. The Fisher Lawn is likely to be impacted by DT-1 construction noise.

Founders Court

Founders Court is an open space located between the Cornish Playhouse and Pacific Northwest Ballet (Phelps Center). This area is used for events at Seattle Center and quiet enjoyment by the public. This area may be impacted by DT-1 or DT-2 construction noise.

Kreielsheimer Promenade

Kreielsheimer Promenade is an open space located between the Pacific Northwest Ballet (Phelps Center) and McCaw Hall. This area is used for events at Seattle Center and quiet public enjoyment. This area may be impacted by DT-1 or DT-2 construction noise.

Mural Amphitheater

The Mural Amphitheater is located south of the Fisher Pavilion. In addition to being used for outdoor events such as concerts, the Mural Amphitheater is used to screen outdoor films during evening hours. This area may be impacted by DT-1 construction noise.

Chapter 6.2. Construction Noise Impacts

The construction noise impact assessment (i.e., airborne noise) was completed using the methods described in the FTA Guidance Manual.

Chapter 6.2.1.5 (Tunneling) and 6.2.1.6 (Cut-and-Cover)

WSBLE DEIS Appendix N.3, Chapter 6.2.1.5 provides a summary of surface-level construction noise that would occur in support of tunneling operations; WSBLE DEIS Appendix N.3, Chapter 6.2.1.6 provides a summary of surface-level construction noise that would occur in support of cut-and-cover station construction.

As identified in WSBLE DEIS Appendix N.3, Table 6-30, the location of the cut-and-cover construction area could be as near as 8 feet from many of the Seattle Center resident organizations, including KEXP, the Vera Project, the SIFF Film Center, the Seattle Rep, and the Cornish Playhouse. Therefore, noise from excavation of the cut-and-cover station, as well as from station entrances, could impact operations at these facilities. Specifically, Table 6-30 identifies potential for impact at the above-listed organizations from DT-1 construction, and from both DT-1 and DT-2 construction at the Seattle Rep.

WSBLE DEIS Appendix N.3, Chapter 6.2.1.5 identifies the use of excavators and backhoes for portal and shaft excavation, and trucks and loaders for transporting spoils. In addition, WSBLE DEIS Appendix N.3, Chapter 6.2.1.5 identifies ventilation fans that “would likely run continuously to provide fresh air to construction crews working inside the tunnel.” For cut-and-cover construction, Chapter 6.2.1.6 identifies haul trucks and vibratory rollers as the loudest sources of construction noise, “over 88 dBA at 50 feet.”

Multiple resident organizations are in close proximity to the cut-and-cover stations (as near as 8 feet, per Table 6-30) and/or station entrances. Specifically, the following summarizes facilities that are closest to the DT-1 or DT-2 stations and East Station entrances:

- **KEXP:** Building is immediately adjacent to DT-1 station construction area
- **Vera Project:** Building is immediately adjacent to DT-1 station construction area
- **SIFF Film Center:** Building is immediately adjacent to DT-1 station construction area
- **Seattle Rep:** Building is immediately adjacent to DT-1 and DT-2 station construction areas, as well as to the East Station Entrance for DT-1 and DT-2
- **Cornish Playhouse:** Building is immediately adjacent to East Station Entrance for DT-1.

Landau finds that the DEIS does not fully evaluate the potential for impact from surface noise construction of stations or station entrances. Specifically, the following activities (i.e., sources of surface construction noise) were either not identified in the DEIS or additional information is required:

Tunnel Exhaust Fans

WSBLE DEIS Chapter 6.2.1.5 states that “Ventilation fans would likely run continuously to provide fresh air to construction crews working inside the tunnel.” A similar statement is found in DEIS Chapter 2.6.6, p 2-88 that states “fans could run for 24 hours a day and could be audible at tunnel portals, stations, or access locations.” Further, Chapter 6.2.1.15 states that “Sound levels near the tunnel portals may be over 86 dBA at 50 feet from construction activities.”

The DEIS does not specifically address whether ventilation fans would be required near cut-and-cover station construction or station entrances. Given the high volume of air required to maintain fresh air for construction workers, and the proximity of several resident organizations to the proposed stations and station entrances, additional information is required to fully identify noise impacts from exhaust fans.

Truck Haul Routes

DEIS Chapter 2.6.6 (p. 2-88) states “truck hauling would require a loading area, staging space for trucks awaiting loading, and provisions to prevent tracking soil on public streets. Truck haul routes and trucking hours would require approval by the City of Seattle. Surface hauling could occur at night during off-peak traffic periods or could be concentrated during the day to minimize noise in noise-sensitive areas.” Table 7-1 of the FTA Guidance Manual (p. 176) identifies a sound level for haul trucks of 84 dBA at 50 feet.

The DEIS does not include assessment of noise from haul trucks. Noise from haul trucks includes engine idling during loading, travel to and from loading locations, and banging noise when trucks drive over uneven or unsecured surfaces that are often found at and near construction sites. Airborne noise from haul trucks collecting and moving spoils away from the DT-1 or DT-2 stations and station entrance areas, located very near KEXP, SIFF Film Center, Vera Project, Seattle Rep, and Cornish Playhouse, could represent major sources of noise.

As indicated in the DEIS, haul trucks may operate during daytime or nighttime hours, depending on the permitted hours of hauling. Many of the resident organizations include noise-sensitive spaces that operate either 24 hours per day (i.e., KEXP), or during late evening hours (i.e., Vera Project, SIFF Film Center, Seattle Rep, Cornish Playhouse). Therefore, impacts from truck hauling may impact these facilities during most hours of the day or night.

If Mercer Street is used as a primary haul route, additional impacts from hauling should be evaluated at Seattle Center resident organizations located along Mercer Street, including Pacific Northwest

Ballet (Phelps Center), McCaw Hall, Seattle Opera, and King FM. Increased truck traffic along Mercer Street may impact usage of theaters during evening hours, especially at locations such as the Seattle Opera building, which operates the Tagney Jones Hall located at the corner of Mercer Street and 4th Avenue North. Impacts to King FM could occur during late night or overnight hours.

Construction Staging Areas

Noise emissions from construction staging areas were not evaluated in the DEIS. Airborne noise from equipment moving within and to/from staging areas could represent a major source of airborne noise during construction.

Multiple Seattle Center resident organizations are likely to be within close proximity to construction staging areas. Although the locations of the staging areas are yet to be defined, an assessment of noise impact from staging areas should be completed that evaluates equipment within the staging areas and potential routes to/from staging areas.

Tunneling and Cut-and-Cover Construction Airborne Noise

WSBLE DEIS Appendix N.3, Chapter 6.2 (p. 6-30) identifies construction activities that would produce the highest levels of airborne construction noise and includes tunneling and cut-and-cover station construction, both of which are proposed for preferred alternative at DT-1 and alternative DT-2, and which would occur near KEXP, Vera Project, SIFF Film Center, Seattle Rep, and Cornish Playhouse.

The WSBLE DEIS provides in Appendix N.3, Table 6-8 (p. 6-31) a range of sound levels, referenced to 50 feet, that are anticipated from tunneling and cut-and-cover construction. Sound levels are based on the FTA Guidance Manual. As identified in Table 6-30 (p. 6-70), and as is illustrated in DEIS Drawing B11-ASX102, construction activities could occur as near as 8 feet from the Seattle Center resident organizations identified above. The following table has been prepared to present noise levels from construction as summarized in DEIS Table 6-8, and including sound levels at 8 feet, 15 feet, and 50 feet from construction equipment, based on noise propagation from a stationary source at +6 dBA per halving of distance to the source.

Table 4. Surface Construction Airborne Noise Equipment and Sound Levels

Construction Activity ¹	Construction Equipment ¹	Sound Level at 50 feet L _{eq} (dBA) ¹	Sound Level at 15 feet L _{eq} (dBA) ²	Sound Level at 8 feet L _{eq} (dBA) ²
Tunneling	Excavators, backhoes, haul trucks, loaders	84 to 86	94 to 96	100 to 102
Cut-and-Cover Station Construction	Excavators, backhoes, haul trucks, loaders, vibratory rollers	84 to 88	96 to 99	102 to 104

¹ Sound Transit WSBLE DEIS Appendix N.3, Table 6-8.
² Calculations by Landau based on 6 dBA per halving of distance to a stationary noise source.
L_{eq} = equivalent sound pressure level

WSBLE DEIS Appendix N.3, Chapter 6.2.3.2, p. 6-38 indicates that cut-and-cover construction of DT-1 “would likely result in airborne construction noise impacts at Northwest Rooms at Seattle Center, which house several noise-sensitive spaces including KEXP, the Vera Project, the SIFF Film Center, and the A/NT Art Gallery. The construction noise would also impact spaces in the north end of the Seattle Center including Seattle Repertory Theatre and Cornish Playhouse.”

For DT-2, the same page of the DEIS states that cut-and-cover construction “could result in noise impacts at the Seattle Repertory Theatre and Cornish Playhouse.” Further, the same page of the DEIS states that “Most of these noise-sensitive spaces are on the perimeter of the building and face Republican Street.”

As noted in the above table, for alternative DT-1, airborne noise levels from tunneling and cut-and-cover station construction could reach up to 104 dBA at the building facade of KEXP, Vera Project, the SIFF Film Center, Seattle Rep, and Cornish Playhouse. The Seattle Municipal Code sound level limits for construction, as correctly noted in WSBLE DEIS Appendix N.3, Table 3-4 (p. 3-7), is 85 dBA for a commercial district noise source affecting a commercial district receiving property, with shorter-duration increases permitted for impact-type equipment. Predicted sound levels from construction therefore could well exceed City of Seattle sound level limits at these facilities when equipment operates within approximately 50 feet of these building facades.

Noise reductions provided by the envelopes of these building (i.e., transmission loss provided by building construction materials) is not identified in the DEIS. Measurements at KEXP, taken by Landau staff, indicate that the north facade of this building provides approximately 61 dBA in reduction of exterior noise (reduction will vary depending on dominant noise frequency of the construction noise source). For sound levels at the exterior facade of 104 dBA, interior levels from exterior construction equipment could be 43 dBA.

The following table summarizes expected increases over ambient noise levels and established limits, based on surface construction noise reaching 43 dBA inside each of these spaces.

Table 5. Surface Construction Airborne Noise Impacts (DT-1)

Resident Organization	Distance to Nearest Surface Construction Activity (feet) ¹	DEIS Noise Limit (dBA) ²	DEIS Measured Ambient Noise Level at Nearest Space (dBA) ³	Highest Interior Airborne Noise Level from Surface Construction (dBA) ⁴	Exceedance of Interior Airborne Noise Level from Surface Construction (dBA)	
					Exceedance of Limit ⁵	Exceedance of Ambient Noise Level ⁵
KEXP	8	25	29	43	18	14
Vera Project	8	30	24	43	13	19
SIFF Film Center	8	35	31	43	8	12
Seattle Rep	8	35	30	43	8	13
Cornish Playhouse	8	35	25	43	8	18

¹ Sound Transit WSBLE DEIS Appendix N.3, Table 6-30, p. 6-70, applies to most sensitive spaces within each facility.

² Sound Transit WSBLE DEIS Appendix N.3, Table 6-13, p. 6-51 (Operational noise and vibration for DT-1, applicable to WSBLE construction).

³ Sound Transit WSBLE DEIS Appendix N.3, Attachment N.3H, Table 7-1, p. 8-3 and Table 8-1, p. 8-4.

⁴ Based on worst-case impact of 104 dBA at 8 feet, assuming 61 dBA reduction to interior spaces. Actual exterior-interior reduction may be lower than 61 dBA (resulting in higher interior levels) and will vary based on sound sources. Actual distance to sensitive spaces inside buildings also may vary, and if farther will result in lower predicted levels.

⁵ Based on impact at nearest portion of building. Actual impacts may be higher or lower.

As summarized above in Table 5 and in WSBLE DEIS Appendix N.3, Chapter 6.3, airborne noise from construction could reach up to 18 dBA over applicable interior sound level limits at KEXP, up to 13 dBA over the limit at Vera Project, and up to 8 dBA over limits at Seattle Rep and Cornish Playhouse.

When compared with DEIS-measured ambient noise levels, airborne construction noise could exceed existing conditions by 12 to 19 dBA at the Seattle Center resident organizations identified in Table 5. Actual increases in noise may be higher depending on exterior-interior noise reductions provided by the buildings (i.e., if less than the estimated 61 dBA reduction) and on the actual distance to the most noise-sensitive spaces within each building. Regardless, these data suggest that airborne construction noise impacts will occur, and that mitigation will be required at each of these spaces during surface construction related to tunneling and the cut-and-cover station.

It is noted in WSBLE DEIS Appendix N.3, Chapter 6.2.3.2, p. 6-38 that “the loudest construction phase is expected to be near the beginning of construction during the cutting and removal of the existing street, which would likely include the use of impact equipment such as jackhammers or hoe rams.” Landau notes that during other phases construction noise levels may be lower. However, the estimates of impact provided in Table 4 are based on the DEIS estimates of excavators, backhoes, haul trucks, loaders, and vibratory rollers. Therefore, if the estimates do not represent the highest noise that could occur from jackhammers and hoe rams, actual noise impacts may, at the initial phases, be higher than is estimated in Table 5.

Landau notes that the noise limits provided in WSBLE DEIS Appendix N.3, Table 6-27 are based on the same limits applied for operational groundborne noise (as noted above). However, as noted on p. 8 of this letter, the limits applied for the Seattle Rep are unprotective, as documented by measurements taken by Landau staff in support of this review. An adjusted limit of 25 dBA would result in noise levels 23 dBA over the impact limit (i.e., predicted level of 48 dBA over limit of 25 dBA), higher still from impact-type equipment.

For DT-2, the location of the cut-and-cover excavation area would be approximately 130 feet from the Seattle Rep. Construction of the DT-2 East Station entrance would occur as near as approximately 60 feet to the west of Seattle Rep. WSBLE DEIS Appendix N.3 does not provide an assessment of airborne noise impacts from surface construction related to DT-2, as received at the Seattle Rep from construction of the East Station entrance or the area of excavation.

Impact Noise

As indicated above, the loudest construction phase would likely include the use of impact equipment such as jackhammers or hoe rams. WSBLE DEIS Appendix N.3, Chapter 3.1.3 correctly summarizes the City of Seattle construction criteria. Specifically, this section notes that impact noises, such as those noises generated by jackhammers and hoe rams, is limited to the daytime hours of 8 a.m. to 5 p.m. weekdays and 9 a.m. to 5 p.m. weekends. The Final Environmental Impact Statement (FEIS) and subsequent construction management plans should include consideration of timing restrictions for these types of impact noises.

Chapter 6.3. Operational Vibration Impacts

The operational vibration section of WSBLE DEIS Appendix N.3 includes predicted impacts from both vibration and groundborne noise during operation of the proposed DT-1 and DT-2 alternatives. WSBLE DEIS Appendix N.3, Tables 6-13 (p. 6-51) and 6-14 (p. 6-53) identify operational groundborne noise and vibration impacts for DT-1 and DT-2, respectively.

Landau finds that additional information and/or corrections are required to evaluate completely the potential for operational vibration and groundborne noise impacts to Seattle Center facilities and resident organizations. The following summarizes these findings:

Groundborne Noise Limits

Seattle Rep, Leo K. Theater

As summarized in Table 2 of this letter and described further on p. 8, the groundborne noise limit for the Seattle Rep Leo K. Theater is not protective enough and should be adjusted to 25 dBA, identified as the FTA Special Buildings limit for a “Concert Hall” (i.e., not based on the 35 dBA limit for a theater). Correcting the limit at the Leo K. Theater would result in a greater groundborne noise impact (23 dBA over limit) for operation of DT-1. Further, for operation of DT-2, correcting the limit would result in a groundborne noise impact (i.e., 3 dBA over limit of 25 dBA).

Seattle Rep, Bagley Wright Theater

WSBLE DEIS Appendix N.3, Attachment N.3H, Table 7-3 identifies groundborne noise levels from DT-2 that are higher at the Leo K Theater (28 dBA) than at the Bagley Wright Theater (19 dBA). The Bagley Wright Theater is substantially closer to DT-2 than the Leo K. Theater, and it would stand to reason that predicted groundborne noise levels at the Bagley Wright Theater would be higher under DT-2. The potential for impact at the Bagley Wright Theater should be re-evaluated to confirm whether impacts are predicted for this space under DT-2.

SIFF Film Center

As summarized in Table 2 of this letter and described further on p. 8, the groundborne noise limit for the SIFF Film Center should be 30 dBA, not 35 dBA. This limit would be similar to “Auditoriums” per FTA definition (see WSBLE DEIS Appendix N.3, Table 3-8, p. 3-10). Further, the limit would be protective of the potential for low-frequency groundborne noise impacts during film screenings, including patron experience and stability of the film projector.

KEXP

As summarized in Table 2 of this letter and described further on p. 9, the groundborne noise limit at the KEXP mastering suite should be adjusted to 25 dBA because this space (currently Production Rooms 1 and 2) is used for audio recording. After adjustment, groundborne noise from light rail operation under the preferred alternative DT-1 is predicted to exceed the limit by 10 dBA (see WSBLE DEIS Appendix N.3, Attachment N.3H, Tables 8-2).

Train Speed

As summarized in WSBLE DEIS Appendix N.3, Table 6-13 (p. 6-51) and 6-14 (p. 6-53), light rail train speeds were assessed as part of the calculation of groundborne noise and vibration. It is noted that there are inconsistencies or potential errors that warrant further clarification.

For preferred alternative DT-1, the train speed through the Seattle Center campus is identified in Table 6-13 as 45 miles per hour (mph) near all noise-sensitive receivers *except* at KEXP, where speeds

are predicted at 55 mph, and at the Seattle Rep and Vera Project where speeds are predicted at 30 mph. Appendix N.3 of the WSBLE DEIS does not provide an explanation for the discrepancy in rail speeds. It is understood that rail speeds would slow when trains are arriving at the station and would increase when trains are departing. However, the discrepancies in rail speeds suggests there may be calculation errors that are relative to the speed of train along the rail alignment. For example, at SIFF the DT-1 speed in Table 6-13 is 45 mph, but at Seattle Rep and Vera Project the speed is 30 mph. These facilities are all in close proximity to each other and one would expect the rail speeds to be similar for each, if not identical.

At KEXP, the predicted DT-1 rail speed is 55 mph, however KEXP building would be located adjacent to the station where trains would be moving at slow speeds or stopped, and not likely to be traveling 55 mph.

Given the above, additional clarification and analysis is needed to ensure that train speed calculations are correct, and that resulting operational groundborne noise impacts from rail operations are correct.

As summarized in Table 6-14, for the DT-2 alternative, the train speed through the Seattle Center campus is 45 mph at all receivers except at the KEXP DJ booth where it is predicted at 30 mph. Although impacts are not anticipated at KEXP from DJ2, the discrepancy in train speeds suggests that additional analysis may be warranted to ensure that the effect of rail speed has been adequately addressed.

Chapter 6.4 Construction Vibration Impacts

Construction-related vibration impacts, including groundborne noise, are predicted to occur from tunneling (Chapter 6.4.1) and surface construction (Chapter 6.4.2).

Chapter 6.4.1 Tunneling Vibration Impacts

During tunneling, the DEIS predicts that vibration impacts would occur only at KEXP during supply train operation (i.e., predicted vibration level of 69 VdB exceeding limit of 65 VdB), and that vibration impacts would not occur at other resident organizations during tunneling. The following summarizes adjustments in vibration and groundborne noise limits, as identified earlier in this letter (see Table 2), that would result in additional or greater impacts to sensitive spaces within Seattle Center.

Seattle Rep

As identified on p. 8 of this letter, Landau recommends adjusting the vibration limit for Seattle Rep to 65 VdB from 72 VdB for both the Leo K. Theater and Bagley Wright Theater. WSBLE DEIS Appendix N.3, Chapter 6.4.1, Table 6-25 identifies a predicted supply train level of 67 VdB at the Seattle Rep. Adjusting the limit at Seattle Rep would result in a predicted vibration level that is 2 VdB over the 65 VdB limit at the Seattle Rep during unmitigated use of the supply train with alternative DT-1.

Regarding groundborne noise, Landau recommends adjusting the groundborne noise limit at Seattle Rep to 25 dBA (see Table 2). This would result in groundborne noise impacts from both cutterhead and supply train operation that exceed what is predicted in WSBLE DEIS Appendix N.3, Chapter 6.4.2, Table 6-27. For example, unmitigated supply train groundborne noise at Seattle Rep is predicted to be 40 dBA, which would exceed the adjusted limit of 25 dBA by 15 dBA and would be clearly discernable and disruptive.

SIFF Film Center

WSBLE DEIS Appendix N.3, Chapter Table 6-25 identifies a predicted supply train level of 65 VdB at the SIFF Film Center, with a limit of 72 VdB. Adjusting the vibration limit to 65 VdB for the SIFF Film Center (as recommended on p. 8 of this letter) would result in supply train levels that just meet this limit. While this does not constitute an impact, Landau predicts that continued exposure to years of vibration from unmitigated supply trains at 65 VdB (the recommended vibration limit for the SIFF Film Center), could result in an impact to the SIFF Film Center. This is based on the SIFF Film Center having previously experienced vibration impacts to its main screening room projector due to vibration from nearby construction.

Regarding groundborne noise, Landau recommends adjusting the groundborne noise limit at the SIFF Film Center to 30 dBA from 35 dBA. This would result in groundborne noise impacts from both cutterhead and supply train operation; currently the WSBLE DEIS Appendix N.3, Chapter 6.4.2, Table 6-27 predicts no impacts at the SIFF Film Center during tunneling. Adjusting the groundborne noise limit would warrant a review of mitigation measures to shield the SIFF Film Center from groundborne noise impacts.

Vera Project

At the Vera Project, an adjusted groundborne noise limit in WSBLE DEIS Appendix N.3, Chapter 6.4.2, Table 6-27 would result in a higher degree of impact than is predicted for DT-1. Currently, Table 6-27 indicates levels of up to 44 dBA from unmitigated supply train operation, a 4-dBA increase over the incorrect 40-dBA limit that is identified in this table. Correcting the groundborne noise limit at Vera Project to 30 dBA (as applied in the DEIS for light rail operation) would result in a noise level that is 14 dBA over the limit. A 14-dBA impact at Vera Project emphasizes the need for mitigation during supply train operation.

KEXP

At KEXP, WSBLE DEIS Attachment N.3, Appendix N.3H Tables 8-2 and 8-3 identify a vibration limit of 72 VdB for the mastering suite. As identified on p. 9 of this letter, the limit should be adjusted to 65 VdB to be consistent with other audio recording spaces within KEXP, and consistent with the FTA criteria for a "Recording Studio." Adjusting the vibration limit of the KEXP mastering suite (currently Production Rooms 1 and 2) would not change the conclusions in Table 6-25 (impact at KEXP due to supply train use for DT-1) based on predicted impacts to the DJ Booth and studio (live performance

space). However, applying the adjusted vibration limit for the KEXP mastering suite would ensure that migration efforts are equally protective for all vibration-sensitive spaces within KEXP.

Similar to vibration, adjusting the groundborne noise limit for the KEXP mastering suite would not change results identified in Table 6-27 regarding impacts at KEXP, but it would ensure that migration efforts are equally protective for all groundborne noise-sensitive spaces within KEXP.

Tunneling Equipment

WSBLE DEIS Appendix N.3, Section 6.4.1.2 and Table 6-26 (p. 6-66) identify equipment that would generate the highest levels of vibration during tunneling, including the boring machine cutterhead, thrust-jack retraction, and supply trains with steel wheels and jointed tracks.

In the footnote of Table 6-27 (p. 6-67), the WSBLE DEIS states “The predicted levels for the thrust-jack are more than 5 dB below the impact threshold for all sensitive receivers.” Groundborne noise predictions for thrust jack retraction is not provided in the WSBLE DEIS. However, Table 6-26 (p. 6-66) provides a range of sound levels of 13 to 29 dBA, as measured between 0 and 200 feet from thrust-jack operation. The range in sound levels for supply trains with steel wheels and jointed tracks is 24 to 28 dBA. While the median level of groundborne noise for supply trains is clearly higher than for thrust jack retraction, there is a potential for thrust jack retraction to generate groundborne noise levels that are as high as supply trains, according to the data provided in Table 6-26. The potential for groundborne noise impact is further increased when the limits for Seattle Rep, SIFF Film Center, Vera Project, and KEXP are adjusted (i.e., lowered).

A more detailed assessment should be provided that further evaluates the potential for groundborne noise and vibration impact from thrust jack retraction.

Chapter 6.4.2. Surface Construction Vibration Impacts

WSBLE DEIS Appendix N.3, Table 6-29, p. 6-70, identifies distances for impact to Special Buildings during surface construction. The minimum distance for the least sensitive spaces (i.e., V.C.-A) is greater than would be realized at KEXP, Vera Project, SIFF Film Center, Seattle Rep and Cornish Playhouse for the equipment identified in this table. For example, the minimum distance for potential impact to a bulldozer under the V.C.-A curve is 125 feet, and the nearest distance to Special Buildings located near surface construction areas (KEXP, The Vera Project, SIFF Film Center, Seattle Rep, and Cornish Playhouse) is 8 feet, as documented in WSBLE DEIS Appendix N.3, Table 6-29.

WSBLE DEIS Appendix N.3, Chapter 6.4.2.2, p. 6-70 states that “Surface construction vibration has not been assessed for Category 1 or special-use buildings near tunnel alignments, However, vibration from surface construction may be of concern if these buildings are close to the tunnel portals or station construction. These activities should be assessed in the Construction Vibration Control Plan”

Given the degree of impact that may occur from surface vibration during construction (see Tables 6-29 and 6-30), and given the need to understand if effective mitigation to these impacts is feasible, a

more detailed assessment of the potential impacts and proposed mitigation should be included in a supplemental DEIS study, in lieu of only requiring future assessments through a control plan. Specifically, for cut-and-cover station excavation, in addition to the potential for usage impacts to tenants of the Northwest Rooms, an additional assessment should be completed that determines the potential for structural damage to KEXP, Vera Project, SIFF Film Center, Seattle Rep and Cornish Playhouse.

Slurry Wall Demolition

The south wall of the DT-1 station design includes a diagonal portion that would extend underneath the Northwest Rooms, including underneath KEXP, Vera Project, and the SIFF Film Center. A profile view of the station is presented WSBLE DEIS Appendix J, Drawing B11-ASX102. Landau understands through ongoing workshops hosted by Sound Transit, that the southern wall of the DT-1 station would be constructed first as a vertical slurry wall, and then widened below grade, toward the south, to provide sufficient space for a station platform. Further, Landau understands that construction methods to expand the station footprint include breaking large portions of the slurry wall with a hoe ram.

The WSBLE DEIS does not include a review of impacts that is specific to the breaking of the slurry wall. However, demolition of this wall would occur very near Seattle Center resident organizations including KEXP, Vera Project, SIFF Film Center, and Seattle Rep. It is anticipated that high levels of vibration would be emitted during this process, and these were not considered or included in the DEIS. Given the high levels of vibration from this activity, the likely lengthy construction schedule, and the many potentially impacted facilities that are sensitive to groundborne noise and vibration impact, there is a high potential for substantial impacts during this phase of construction.

In addition to the use of a hoe ram, excavation of materials behind the slurry wall and directly underneath the Northwest Rooms may result in additional vibration and groundborne noise impacts to these receivers.

Station Entrances

The WSBLE DEIS provides very minimal information on the potential for noise and vibration impact from construction of the station entrances. Specifically, for DT-1 the proposed East Station Entrance would be located directly between the Seattle Rep and Cornish Playhouse. Construction of this station entrance would likely require demolition of existing structures and surfaces, excavation and hauling of materials, reinforcement of station walls, and construction of the station itself. Vibration and groundborne noise impacts are likely to be experienced at both Seattle Rep and Cornish Playhouse.

As identified on p. 8 of this letter, Landau recommends adjusting the vibration limits for the Seattle Rep and Cornish Playhouse to 65 VdB from 72 VdB. Adjusting the limits to 65 VdB would be protective of these facilities during surface construction of the East Station Entrance given the low levels of

ambient vibration at both facilities (see ambient vibration measurement data in WSBLE DEIS Appendix N.3, Attachment N.3H, Table 7-1, and verified by Landau measurements in January 2022).

Given the very close proximity of the DT-1 East Station Entrance to the Seattle Rep and Cornish Playhouse, and the proximity of Seattle Rep to the DT-2 East Station Entrance, as well as the recommended adjustments of vibration limits for Seattle Rep and Cornish Playhouse, an assessment of station entrance construction should be completed to determine the potential for impacts. In addition, an assessment should be completed of the potential for structural damage to these buildings.

Chapter 7. Noise and Vibration Mitigation Measures

Chapter 7.2. Construction Noise Mitigation

DEIS Appendix N.3, Chapter 7.2 (p. 7-16) identifies standard mitigation measures for construction noise. The following summarizes mitigation measures that were not included but should be considered:

General Construction Equipment

Loud construction equipment operating within the cut-and-cover construction area could operate as near as 8 feet from many Seattle Center facilities and resident organizations including KEXP, Vera Project, SIFF Film Center, Seattle Rep, and Cornish Playhouse. As summarized in this letter in Table 4, estimated sound levels at some buildings could reach 104 dBA and could reach up to 43 dBA at interior spaces, potentially impacting noise-sensitive uses such as performances and recording operations at several facilities (see Table 5 of this letter).

Mitigation measures summarized in the WSBLE DEIS are effective strategies to reduce airborne construction noise but do not specifically target the potential for impacts.

Mitigation measures should include an emphasis on administrative controls, scheduling the noisiest activities during times that would be less likely to interfere with noise-sensitive operations. This will require coordination with Seattle Center and multiple resident organizations.

Noise barriers could be installed at locations where airborne noise impacts are predicted or anticipated, and where this is sufficient room to build a wall that is long and tall enough to be effective. Noise barriers should be required as part of the project's Construction Noise Control Plan, and should be considered for:

- The north wall of the Northwest Rooms, shielding KEXP, Vera Project, and SIFF Film Center
- The south and east walls of Seattle Rep, shielding from station and East Entrance construction
- The west wall of Cornish Playhouse, shielding from East Entrance construction
- The north end of the International Fountain Lawn

- The Northwest Rooms breezeway between KEXP and Vera Project, shielding the International Plaza.

Tunnel ventilation fans

Ventilation fans will be required to provide fresh air to crew within the tunnel and could operate 24-hours per day. The location of the fans is not yet defined but could be located very near to several noise-sensitive resident organizations. Due to the low-frequency noise generated by such fans, mitigation may be required to ensure fan noise does not result in impacts to interior performance and recording spaces.

Potential mitigation measures could include quieter fan models, strategic placement of fans, silencers, barriers, or other measures. Further, the EIS should include specific language within the Construction Noise Control Plan regarding exhaust fan noise.

Haul trucks

Noise from idling and movement of haul trucks during construction, as well as noises from driving over uneven or unsecured surfaces, may result in impacts at noise-sensitive spaces along routes accessing DT-1 or DT-2. Haul truck routes are not yet defined however an assessment should be completed to determine if mitigation of noise from haul trucks is warranted.

Further, the EIS should include specific language within the Construction Noise and Vibration Control Plan regarding permitted haul routes that minimize the potential for impact.

Landau anticipates that Mercer Street would likely serve as a primary haul route for either DT-1 or DT-2. If so, the nearest noise-sensitive space along this route with the greatest potential for haul truck impacts is the Seattle Opera Tagney Jones Hall, located at the corner of Mercer Street and 4th Avenue N. Additional impacts may occur at Seattle Rep, Pacific Northwest Ballet, and King FM. A study should be completed to identify the number of trucks per hour during various construction phases, and what the predicted impacts may be to these resident organizations and what mitigation measures are warranted (e.g., limited hauling hours, limited trucks per hour).

Staging Areas

Mitigation of staging area noise should be included in an updated noise impact assessment. Mitigation measures could include strategic location of staging areas to minimize impact from noise emissions related to staging areas, noise barriers, and other measures as defined under WSBLE DEIS Appendix N.3, Chapter 7.2.

Chapter 7.3. Operational Vibration Mitigation

WSBLE DEIS Appendix N.3, Chapter 7.3.2.2 (p. 7-26) provides DT-1 operational groundborne noise and vibration mitigation measures that would mitigate impacts at “recording studios and performance

spaces in Seattle Center” (Chapter 7.3.2.2., p. 7-26). Included are high resilience fasteners along 900 feet of new track between construction alignment stations 79+00 and 88+00.

The FTA Guidance Manual, in Table 6-11 (p. 140) states that high resilience fasteners can achieve 5-dB of reduction in groundborne noise from tracks at frequencies above 40 hertz (Hz). As stated in WSBLE DEIS Appendix N.3, Attachment N.3H, Chapter 8.4, p. 8-20, “Because Sound Transit expects at least 5 decibels of reduction from the tunnel structure that is not included in the prediction model, no additional mitigation measures beyond high-resilience fasteners are proposed.”

If the above Sound Transit expectation is true, groundborne noise impacts from DT-1 operation would be mitigated only for KEXP and Vera Project, but not for the SIFF Film Center and Seattle Rep. As noted in this review, Landau recommends that for both SIFF and Seattle Rep, the groundborne noise limits be adjusted to a lower level that is more protective of the uses within these spaces (see Table 2). The result would be DT-1 operational groundborne noise that exceeds the limits at the SIFF Film Center and Seattle Rep by 15 dBA and 23 dBA, respectively. Accounting for an assumed 5-dBA reduction from high resilience fasteners and an additional 5-dBA reduction from the structure itself, the SIFF Film Center and Seattle Rep would experience increases of 5 dBA and 18 dBA above their respective limits. Therefore, because impacts would occur even with high resilience fasteners, Landau recommends that a higher degree of mitigation be considered, such as a floating slab or thicker tunnel materials.

For DT-2, WSBLE DEIS Appendix N.3, Attachment N.3H, Table 7-3 indicates that impacts may occur at the Seattle Rep Leo K. Theater when applying the adjusted groundborne noise limit identified in Table 2 of this letter (i.e., predicted level is 28 dBA; the proposed limit is 25 dBA). Further, as identified in this letter, there may be errors in the calculation of impact at the Bagley Wright Theater that result in predicted groundborne noise impacts at this space from DT-2. Sound Transit should confirm whether impacts are predicted, and the degree to which these impacts might occur. Once confirmed, a reassessment of DT-2 operational mitigation should be completed.

Chapter 7.4. Construction Vibration Mitigation

Chapter 7.4.1 Potential Surface Construction Vibration Mitigation

WSBLE DEIS Appendix N.3, Chapter 7.4.1 (p. 7-31) identifies surface vibration mitigation measures that include pre-construction surveys, construction timing, equipment locations, continuous vibration monitoring, and alternative construction methods. The following summarizes mitigation measures that are not included or that require additional detail:

Construction Vibration Control Plan

As noted in Chapter 6.4.2.2, p. 6-70, “Surface construction vibration has not been assessed for Category 1 or special-use buildings near tunnel alignments. However, vibration from surface

construction may be of concern if these buildings are close to the tunnel portals or station construction. These activities should be assessed in the Construction Vibration Control Plan.”

Construction vibration measures should be updated once a more detailed assessment of surface vibration measures is completed to support a Construction Vibration Control Plan. Given the high potential for surface vibration impact during construction, mitigation of surface vibration will be critical to KEXP, Vera Project, SIFF Film Center, Seattle Rep, and Cornish Playhouse.

Slurry Wall Demolition

As indicated, the DEIS does not include detailed assessment of the potential for vibration impacts from demolition of the slurry wall underneath the Northwest Rooms. It is expected that both vibration and groundborne noise impacts would occur at KEXP, Vera Project, and the SIFF Film Center as a result of the slurry wall demolition, and therefore mitigation measures should be clearly evaluated and provided in the Construction Vibration Control Plan.

Chapter 7.4.2 Potential Tunneling Vibration Mitigation

DEIS Appendix N.3, Chapter 7.4.2 (p. 7-32) identifies mitigation measures to reduce the potential for vibration and groundborne noise impact during tunneling. The following summarize key elements of this review:

Supply Train

Details provided in DEIS Appendix N.3, Chapter 7.4.2 are focused on mitigating vibration from the supply train, including reduced supply train speeds, smooth running surfaces, reduced gaps between rail sections, adding rubber pad between ties, and using rubber tires on supply trains.

As noted, DEIS Appendix N.3, Table 6-27 (p. 6-67) summarizes impacts from construction that states unmitigated supply trains could result in groundborne noise levels inside multiple noise-sensitive spaces that are up to 44 dBA (Vera Project), and exceeding applicable noise limits by up to 17 dBA (KEXP). In addition to the mitigating effects of measures identified above, the DEIS Appendix N.3, Chapter 7.4.2, p. 7-32 suggests that rubber tires on supply trains could provide effective mitigation of vibration and groundborne noise at frequencies above 10 Hz.

Given the high level of impact that may occur due to the supply train at multiple noise-sensitive Seattle Center facilities and resident organizations, and that predictive modeling has not been completed to fully evaluate the mitigating effect of rubber tires on supply trains, the Construction Vibration Control Plan should be supported by a detailed assessment of rubber tires on supply trains. The assessment should demonstrate that impacts to each of these spaces are effectively mitigated to below ambient levels.

Thrust Jack

As indicated, mitigation of vibration from thrust jacks may be warranted through slower retraction of the jacks. This assessment should be completed once a more detailed assessment of the potential for impact from this activity is completed. If necessary, mitigation measures should be included the Construction Vibration Control Plan.

Cutterhead

As stated in the DEIS Appendix N.3, Chapter 7.4.2, p. 7-32, it is not possible to mitigate vibration from the tunneling cutterhead. However, as stated, mitigation can be achieved through vibration monitoring and coordination with organization identified as Category 1 and special use buildings. For DT-1, the list of organizations should include MoPOP, Seattle Opera, King FM, McCaw Hall, Pacific Northwest Ballet, Exhibition Hall, Cornish Playhouse, Seattle Rep, SIFF Film Center, Vera Project, and KEXP. For DT-2 the list should include Seattle Opera, King FM, McCaw Hall, Pacific Northwest Ballet, Exhibition Hall, Cornish Playhouse, and Seattle Rep. The FEIS and Construction Vibration Control Plan should specify locations/receivers to be monitored, including the number of monitors and duration of monitoring, as well as the established thresholds above which action is to be taken. Also, the Plan should include clear direction for the General Contractor to coordinate with each of the noise-sensitive resident organizations to provide sufficient advance notice to allow noise-sensitive events to be scheduled accordingly.

Refinement Designs Presented to Public

In April 2022, Sound Transit publicly presented early studies of potential design refinements to the WSBLE DEIS. A copy of slides from Sound Transit's April 2022 presentation is included as an Attachment to this letter. The refinements include an alternative double-canted concept design for the DT-1 station, a refinement that moves the DT-1 station further west, and a mix-and-match alternative that incorporates elements of the alignments of both DT-1 and DT-2. Further study of these refinements will be contingent upon direction from the Sound Transit Board. The following summarizes Landau's initial assessment of these alternative designs:

DT-1 Station Double-Canted Concept

The double-canted design would negate the need to demolish a slurry wall underneath the Northwest Rooms by constructing the station walls with canted augered piles. The piles, driven at angles underneath the Northwest Rooms to the south, and the Expo Apartment building to the north, would form the walls of the station itself.

This station design would eliminate the need for demolishing a slurry wall underneath the Northwest Rooms. The potential for groundborne noise impacts remains, but likely at much lower levels than would occur during demolition of a slurry wall.

Airborne noise impacts would be anticipated when augers remove soils from the auger bits by shaking (a repetitive banging sound). The impact noise from augering would be limited to between 8 a.m. and 5 p.m. on weekdays, and between 9 a.m. and 5 p.m. on weekends, but could occur for up to 12 months.

As assessment of groundborne noise, vibration, and airborne noise would be required to fully evaluate whether additional mitigation measures are warranted for this alternative station design.

Moving Station DT-1 to West

Under this alternative, the location of the DT-1 station would be located between approximately Queen Anne Avenue and just west of 1st Avenue North (i.e., adjacent to the SIFF Uptown Cinema). Moving the station away from the Seattle Center, including the noise-sensitive spaces within the Northwest Rooms, as well as Seattle Rep, Cornish Playhouse, and others, would reduce the potential for impacts at these spaces and limit impacts to tunneling and operation. A full assessment of impacts would be required for Seattle Center noise-sensitive spaces to confirm impacts and mitigation requirements, but generally the expected degree of noise and vibration impacts is lower than what is presented in the WSBLE DEIS DT-1.

Under this alternative, noise and vibration impacts would occur near the SIFF Uptown Cinema and other sensitive receiving locations (mainly residential). While the SIFF Uptown Cinema is not located on the Seattle Center campus, it is directly tied to the SIFF Film Center, and so impacts under this alternative design are critical to the SIFF Film Center. Based on Sound Transit's presentation, noise and vibration impacts from the DT-1 station located further west would also include assessment of a much larger cut-and-cover footprint.

As assessment of groundborne noise, vibration, and airborne noise would be required to fully evaluate whether additional mitigation measures are warranted for this alternative design.

Mix and Match SLU-Harrison Station to Seattle Center-Mercer Station

The Mix and Match alternative would connect DT-1 to DT-2 by tunneling underneath McCaw Hall and portions of the Seattle Opera and Pacific Northwest Ballet. The depth of the connecting tunnel underneath McCaw Hall is not known but it is expected to be within the approximate range of DT-1 and DT-2 alignments in this area.

Impacts from the Mix and Match design are anticipated to occur due to both construction and operation. Further, noise and vibration impacts are expected to be greater than was predicted in the DEIS for alternatives DT-1 or DT-2 for the Seattle Opera, McCaw Hall, and Pacific Northwest Ballet. Construction impacts from tunneling would occur from cutterhead and supply train operations directly underneath these facilities, and it is very likely that rubber-tired supply trains and/or additional mitigation measures would be required to ensure continued impacts do not occur during tunneling, where groundborne noise limits are 25 dBA.

Operational impacts also are expected along the Mix and Match route. An assessment would need to be completed to determine the extent of these impacts. Mitigation required to bring operational noise and vibration impacts below the limits for Seattle Opera, McCaw Hall, and Pacific Northwest Ballet would likely include measures beyond what is currently proposed for WSBLE DEIS for DT-1 or DT-2 at Seattle Center, such as floating slabs and thicker tunnel walls.

LANDAU ASSOCIATES, INC.



Kevin Warner
Principal, Permitting and Compliance

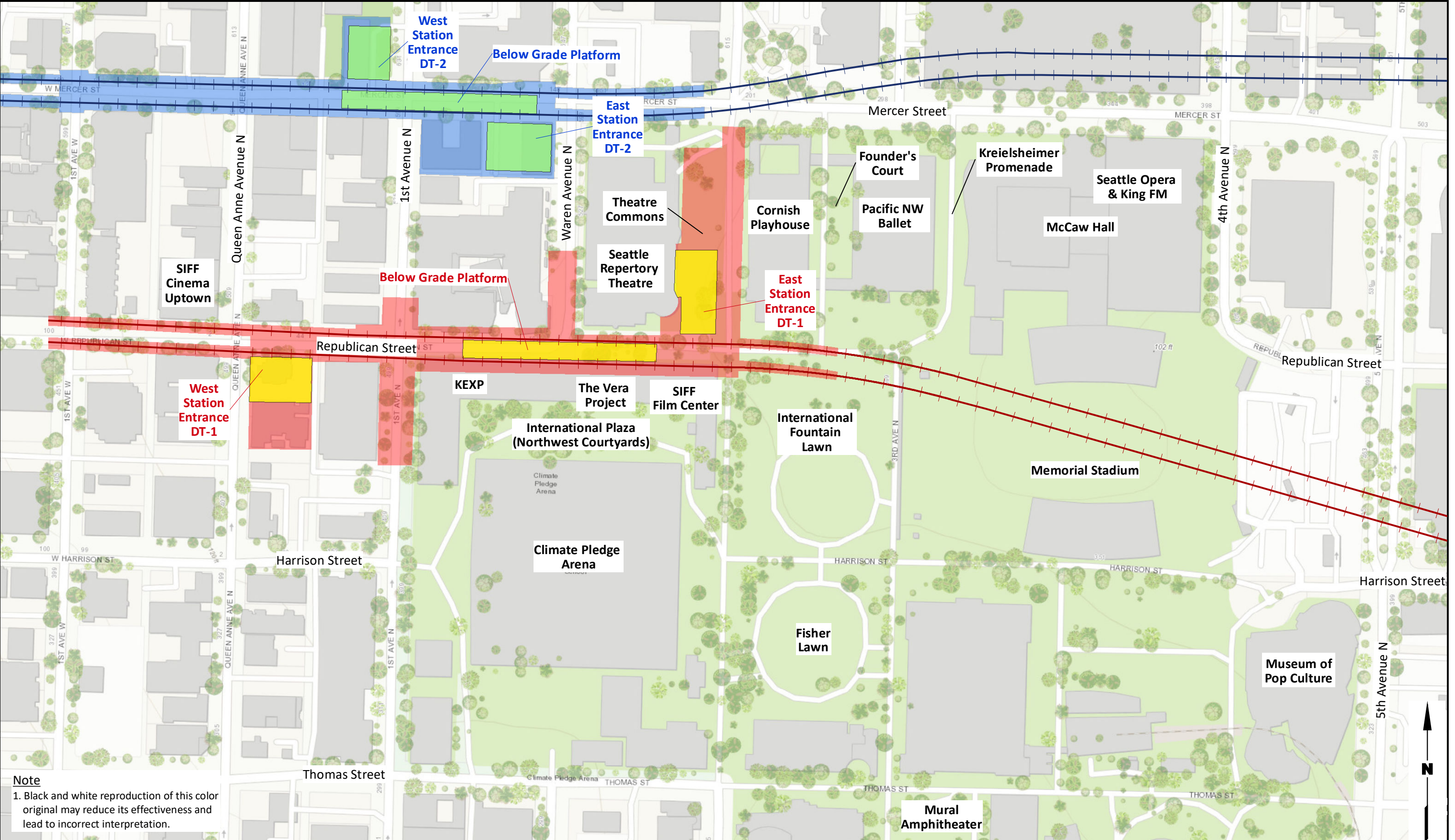
Attachments

Figure 1. Overview Map

Figure 2. West Seattle and Ballard Link Extensions PowerPoint Presentation (Sound Transit, 4/8/2022)

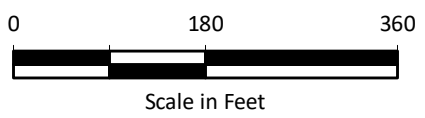
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Note
 1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

- Legend**
- DT-1 Tracks
 - DT-2 Tracks
 - DT-1 Platform and Stations
 - DT-2 Platform and Stations
 - DT-1 Construction Areas
 - DT-2 Construction Areas



Basemap source: Esri, 2022. Sound Transit. HTNB.

Sound Transit WSBLE DEIS
 Seattle Center
 Seattle, Washington

Overview Map

Figure
1

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West Seattle and Ballard Link Extensions

*Seattle Center Organizations
4/8/2022*



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Agenda

- Grounding and Brief Check-in (15 min)
- Seattle Center Station: Potential refinement concepts (10 min)
- City of Seattle response (10 min)
- Q&A and Discussion (45 min)
- Next Steps in the Process (15 min)

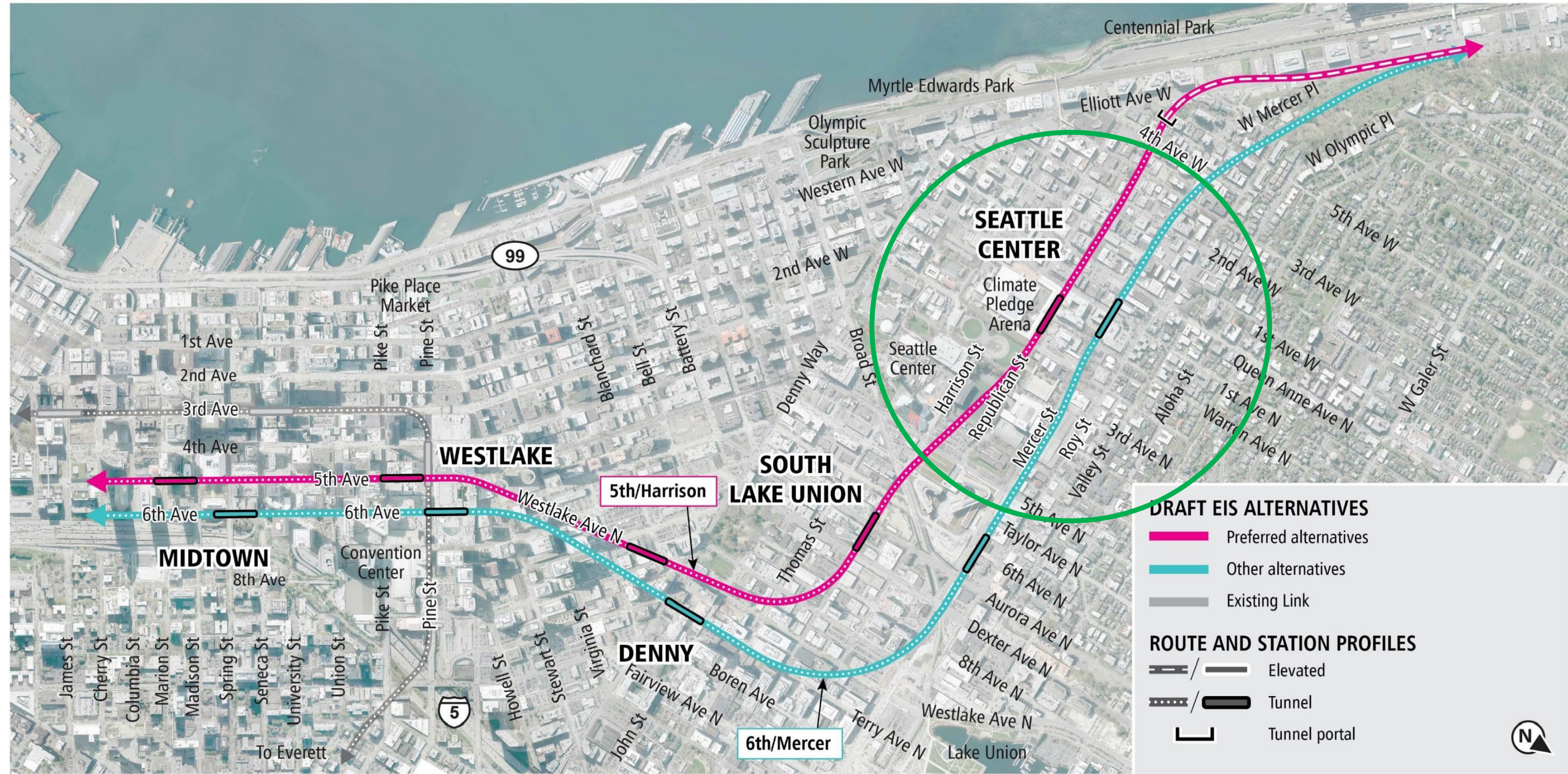
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Seattle Center organizations engagement

Pre & Post Draft EIS publication

Date	Briefing/ Workshop
Jun 22	Seattle Center Advocacy Committee briefing
Oct 1	WSBLE Workshop: Noise & Vibration
Nov 18	Seattle Center/Uptown Station Design Charrette
<i>Draft EIS published January 28, 2022</i>	
Feb 16	Workshop: Draft EIS Results Overview & Station Planning
Mar 18	Workshop: Draft EIS Deep Dive – Construction focus
Apr 8	Workshop: Reflections and Potential Refinements

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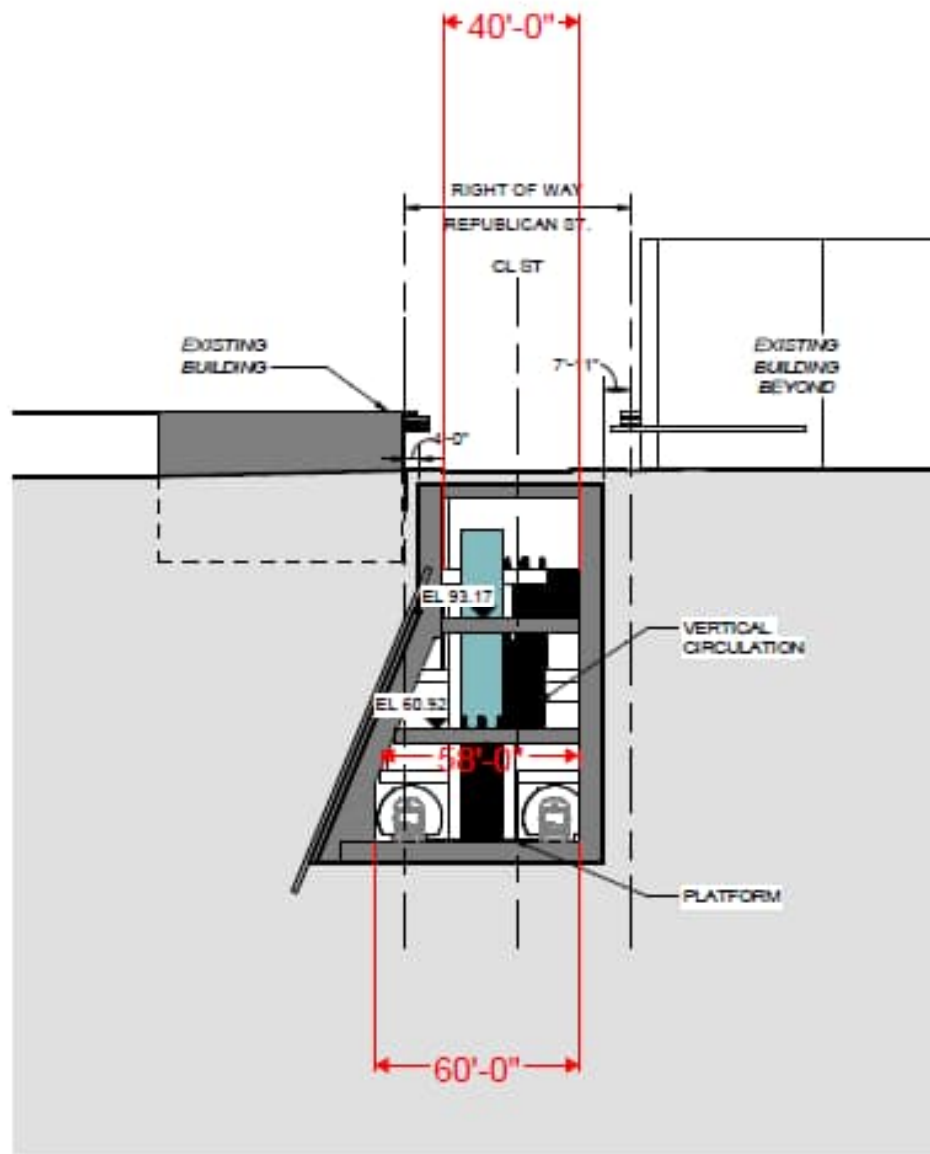
4 **Draft EIS alternatives Downtown**

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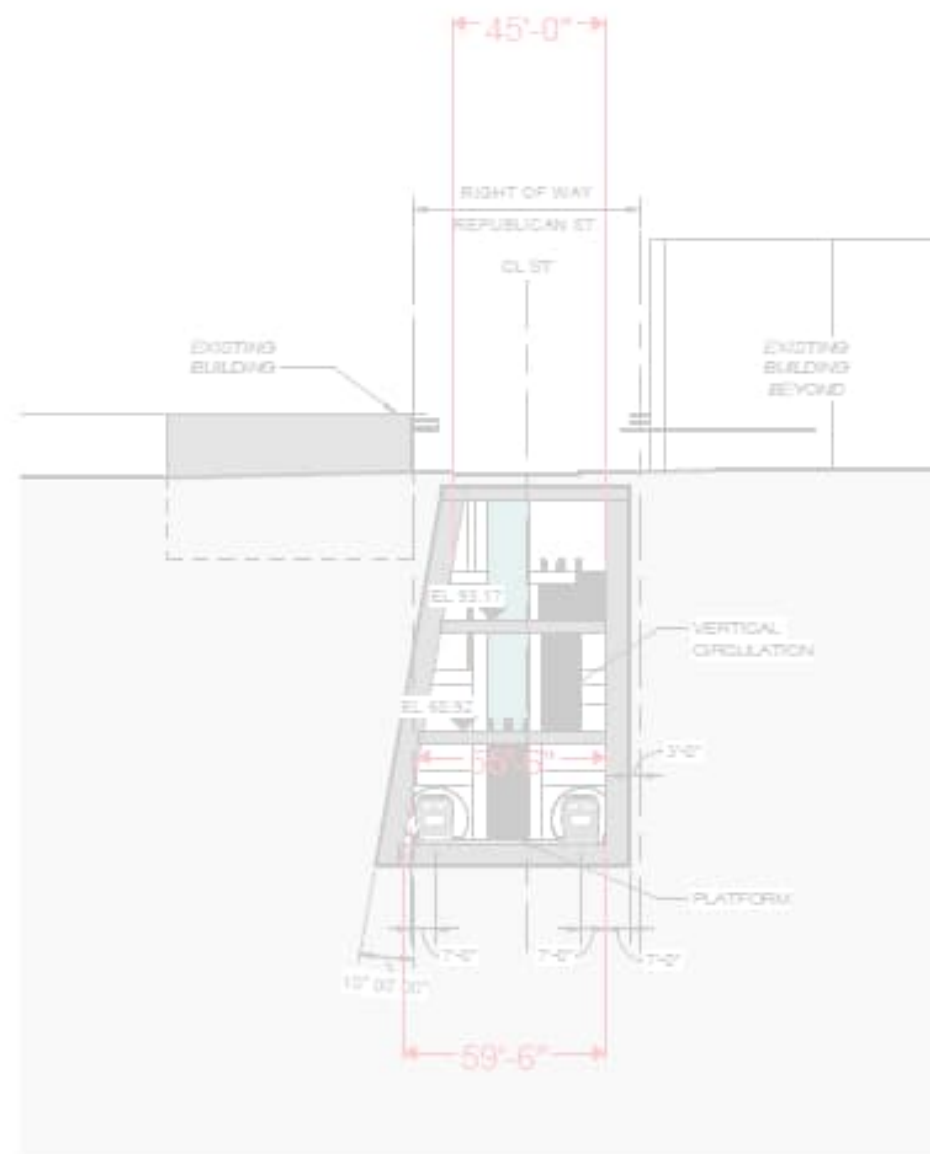
***Seattle Center Station:
Potential refinement
concepts***

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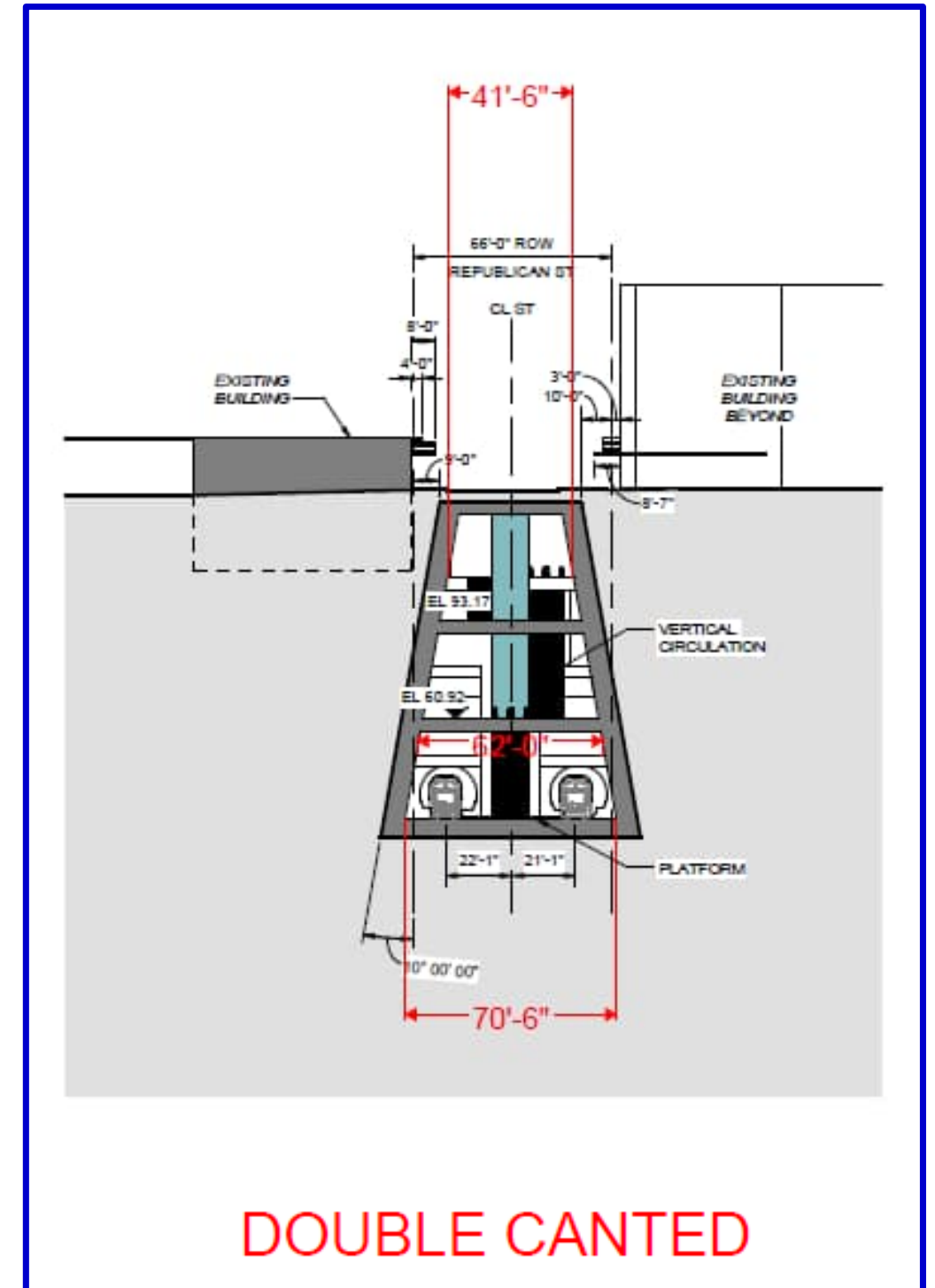
Refined design – new double canted concept



DEIS



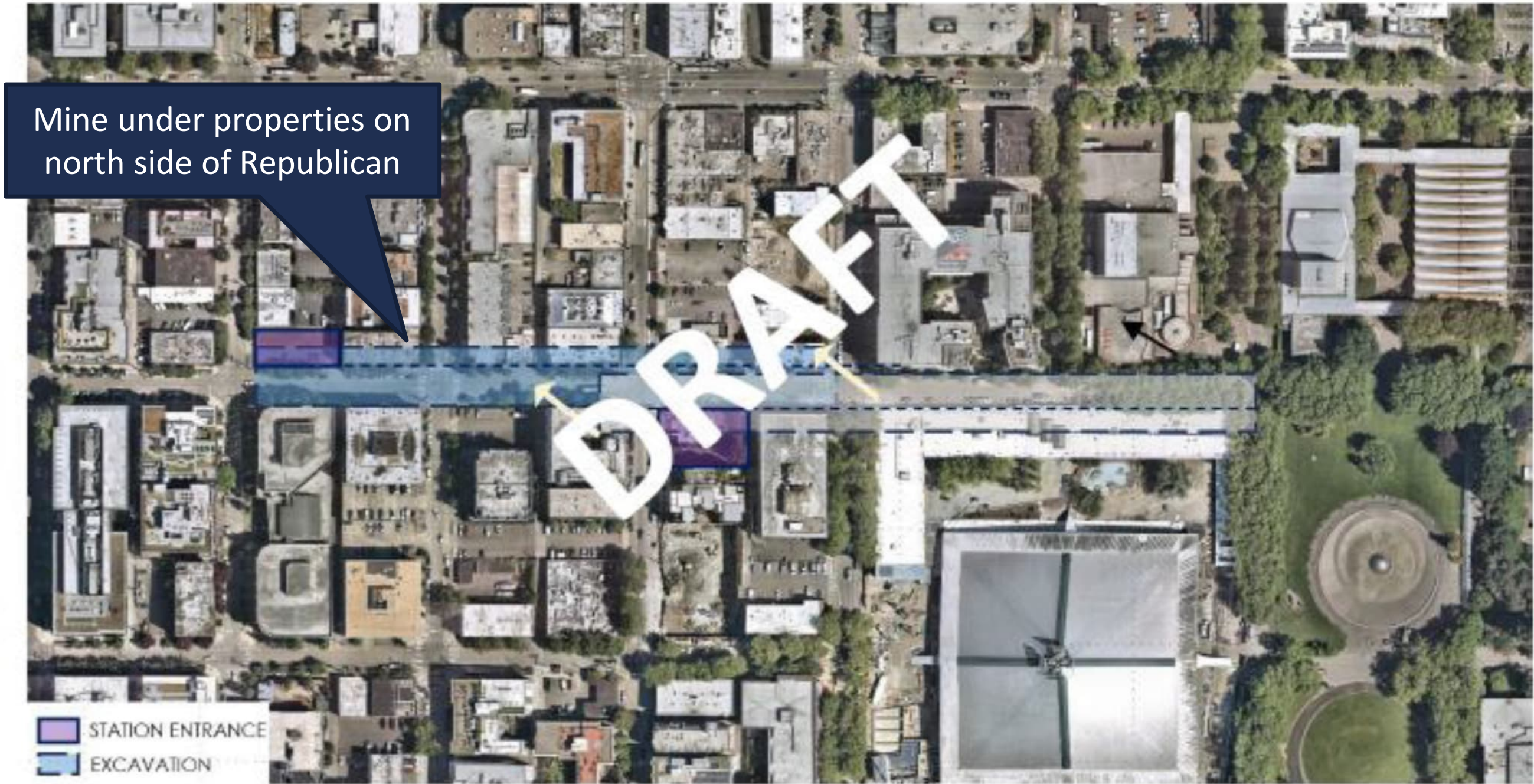
SINGLE CANTED



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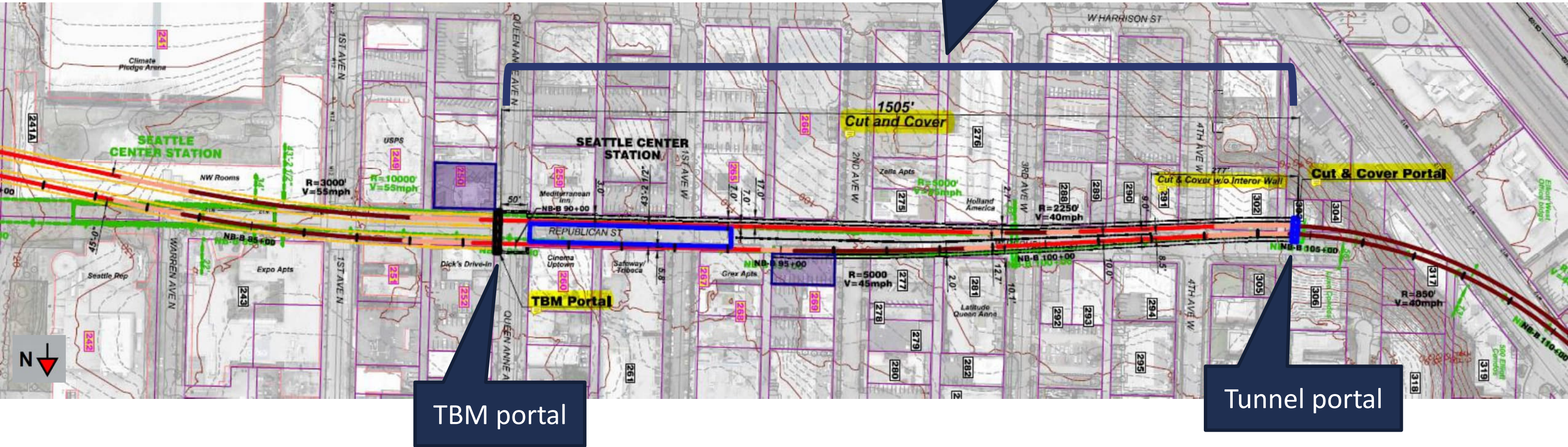
c *Shift Seattle Center (Republican) station west*



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Shift Seattle Center (Republican) station west

Extended cut-and-cover construction extent



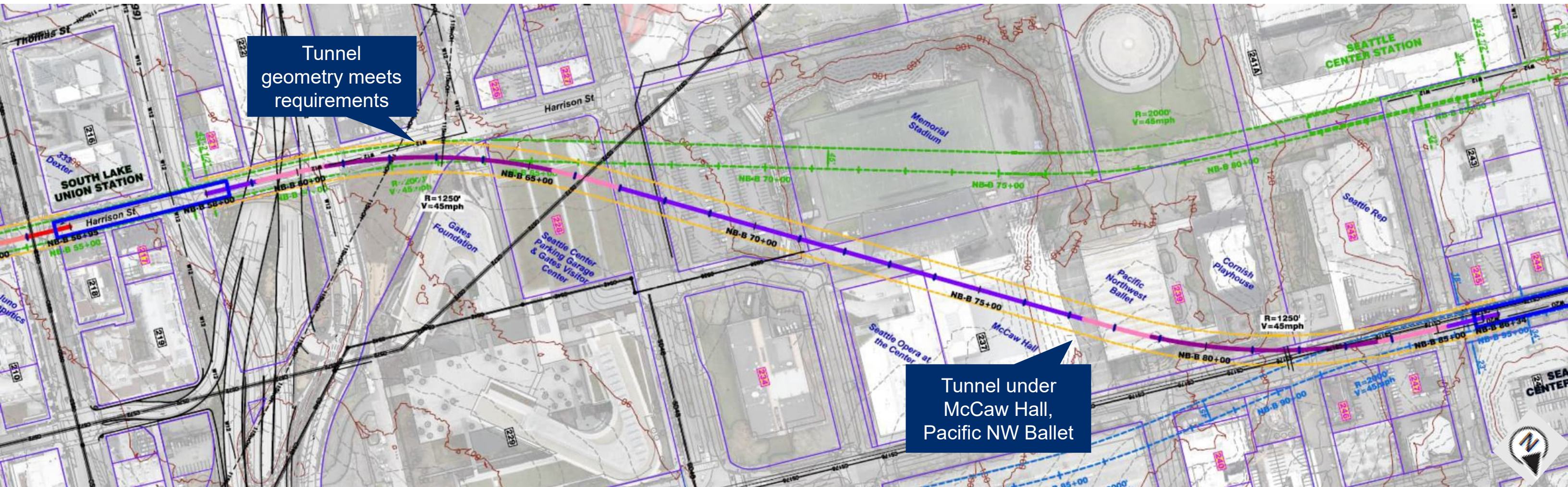
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d *Connect South Lake Union (Harrison) to Seattle Center (Mercer)*



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d Connect South Lake Union (Harrison) to Seattle Center (Mercer)



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City of Seattle Response

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Q&A and Discussion

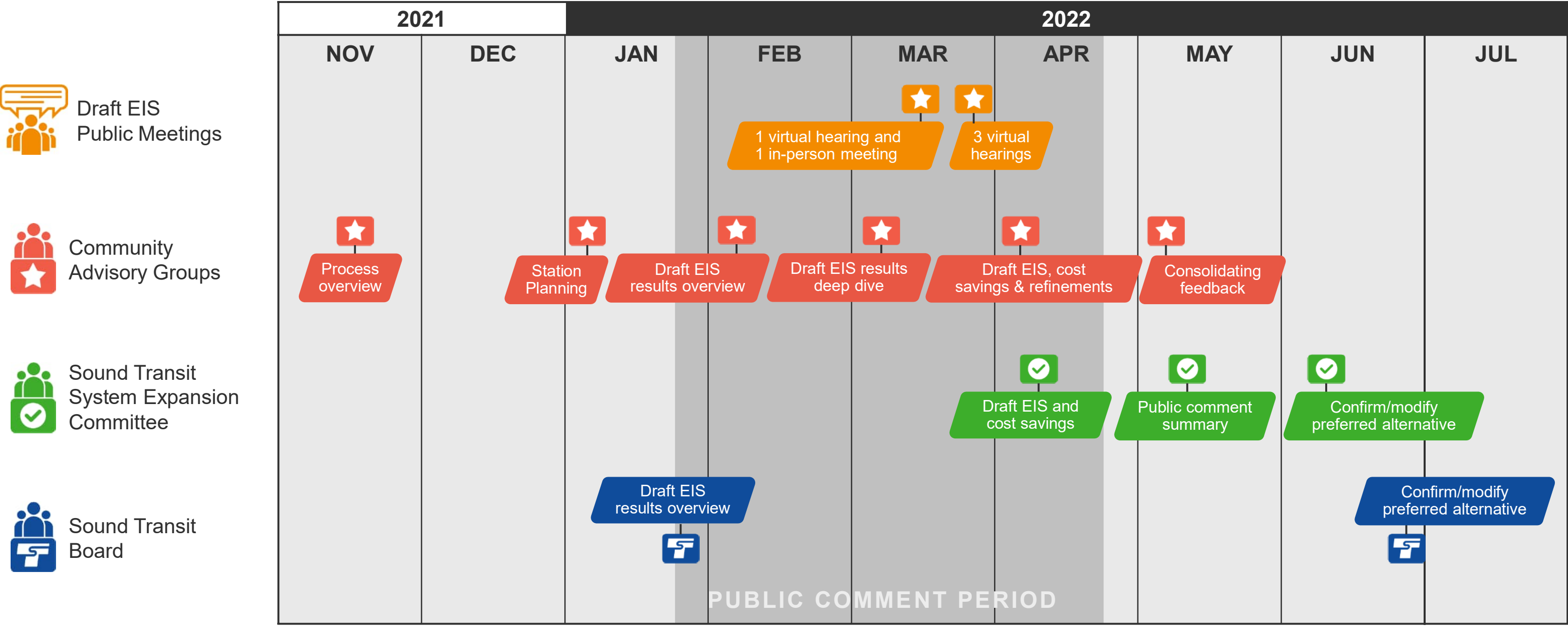
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Next steps of the process

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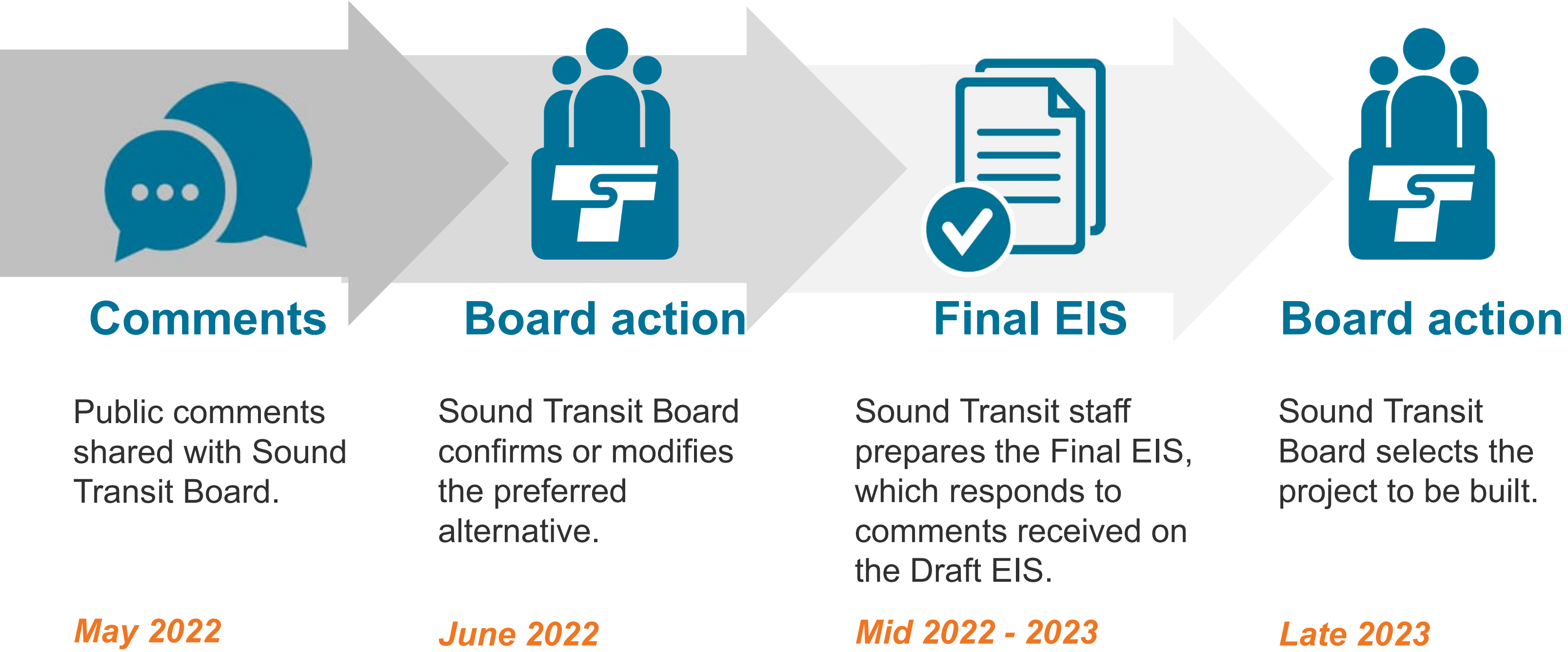
Community engagement and collaboration

Draft Environmental Impact Statement (EIS)



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What happens after you comment?



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 **SOUNDTRANSIT**



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SEATTLE CITY COUNCIL | DISTRICT 1

COUNCILMEMBER LISA HERBOLD

April 28, 2022

WSBLE Draft Environmental Impact Statement Comments
c/o Lauren Swift
Sound Transit
401 South Jackson Street
Seattle, WA 98104

sent by electronic mail

Dear Ms. Swift,

I am writing to comment on the Draft Environmental Impact Statement for the Sound Transit West Seattle and Ballard Link Extensions project.

I am submitting these comments as District 1 Seattle City Councilmember, to let Sound Transit know what I've been hearing from constituents in West Seattle about the ST3 proposal and to assist the Sound Transit Board's identification of a Preferred Alternative and other alternatives to study in the Final Environmental Impact Statement (EIS).

Locating light rail stations and alignment will be a 100-year decision, with long-term impacts to the West Seattle Community.

While I continue to hear support for light rail to West Seattle, there is continuing concern about potential impacts for some options. I am requesting additional visual representations be included for the Final EIS, to clearly demonstrate what alignments will look like and demonstrate their impacts.

Below are comments regarding the segments in District 1:

West Seattle Junction Segment

There is very strong community support for a tunnel option. A tunnel would minimize impacts to the neighborhood and businesses and provide the best approach for long-term success and the health of the West Seattle Junction community.

An elevated alignment into the heart of the West Seattle Junction Urban Village, and on Fautleroy Way SW would be unique to this project and unprecedented for light rail in Seattle. It would include impacts that could not be mitigated.

In addition, an elevated line on Fautleroy would make completion of the [Fautleroy Boulevard Project](#) infeasible. Funding for this project was included in the Move Seattle Levy approved by Seattle voters in 2015.

The Medium Tunnel 41st Avenue Station (WSJ-5) offers an option that is estimated to cost \$200 million less than the elevated Preferred Alternative 41st/42nd Avenue Station Alternative (WSJ-1) that goes into the heart of the West Seattle Junction. The Medium Tunnel has significantly fewer residential, business, and employee impacts.

There is also significant support for the Preferred Tunnel 41st Avenue Station Alternative (WSJ-3a) and the Preferred Tunnel 42nd Avenue Station Option (WSJ-3b).

Delridge Segment

Most riders will access the Delridge station via transfers. Consequently, transfer times are very important. A key point of the Racial Equity Toolkit is the importance of ensuring access from lower-income BIPOC communities to the south, including South Delridge and White Center. Consideration of transit-oriented development is also important to consider.

The Andover Street Station Lower Height (DEL-6) has the lowest overall displacement impacts and does not directly cross the Youngstown community. I encourage study to improve the transit integration for commuters from communities to the south. I appreciate the pedestrian overpass refinement proposal for accessing this station. How this station would operate with truck access to Nucor is important to consider.

The potential height of an elevated guideway on Genesee (150' in one option) is a significant concern. Should the Board consider an option on Genesee, I strongly encourage selection of one of the lower height options that connects to a tunnel.

It may be worth examining the ability of options to connect between segments. For example, WSJ-5 and DEL-6 do not connect with any other options.

Avalon

While the realignment process initiated by the Sound Transit Board is separate from the Draft EIS, given that Sound Transit staff have recently released potential refinements, and they are a subject of public discussion, I'd like to address the potential elimination of the Avalon station. I offer the following comments in the event the board opts to consider eliminating this station.

I've heard a variety of perspectives in West Seattle about the Avalon station. Some, including nearby residents of the numerous multifamily buildings on Avalon Way, emphasize the development on and around Avalon, and potential future development, and think keeping this station is important.

Others either support or could live with removing it, but only if it results in a commensurate benefit to the West Seattle community, such as a longer tunnel.

As noted above, a key point of the Racial Equity Toolkit is the importance of ensuring access from lower-income BIPOC communities to the south. While a number of those communities would access the line via Delridge, the High Point community would be most likely to access the line via the Avalon station at or by 35th Avenue SW. So, eliminating this station would require a clear plan for providing timely access from High Point and adjacent communities on the 35th Avenue SW corridor.

Duwamish crossing

Both the north and south crossings of the Duwamish have significant impacts to the community.

The southern options have potential displacements of 22-26 residences on Pigeon Point, while the North option on Harbor Island has impacts to Harbor Island. The number of impacted businesses impacted is similar, though the south crossing affects 670 to 680 employees, versus the 400 for the north crossing.

The West Seattle Bridge is currently undergoing repairs and is expected to continue in service through its original 75-year expected lifespan, roughly 2060. At that time, however, it will need to be replaced. Design of the Duwamish crossing will need to account for this.

Sincerely,

A handwritten signature in blue ink that reads "Lisa A. Herbold". The signature is fluid and cursive.

Seattle City Councilmember
District 1, West Seattle and South Park

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Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504338 - Seattle Council Member Lisa Herbold Draft EIS Comment

#	Comments	Responses
1	I am requesting additional visual representations be included for the Final EIS, to clearly demonstrate what alignments will look like and demonstrate their impacts.	Please see Section 4.5, Visual and Aesthetic Resources, and Appendix N.2, Visual and Aesthetic Resources Technical Report for additional visual simulations prepared for the West Seattle Link Extension Final EIS.
2	There is very strong community support for a tunnel option. A tunnel would minimize impacts to the neighborhood and businesses and provide the best approach for long-term success and the health of the West Seattle Junction community. An elevated alignment into the heart of the West Seattle Junction Urban Village, and on Fauntleroy Way SW would be unique to this project and unprecedented for light rail in Seattle. It would include impacts that could not be mitigated.	Please see response to CCG2 in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Chapter 6, Alternatives Evaluation, of the Final EIS for more information on significant and unavoidable adverse impacts.
3	In addition, an elevated line on Fauntleroy would make completion of the Fauntleroy Boulevard Project infeasible. Funding for this project was included in the Move Seattle Levy approved by Seattle voters in 2015.	Coordination with the City of Seattle regarding their project in the study area has been ongoing during WSBLE project development. The Fauntleroy Boulevard Project was paused in 2018 and is currently unfunded, but remains in the city's capital improvement program. The project website was updated in 2022 to note that the West Seattle Link Extension Preferred Alternative identified in July 2022 would not conflict with the boulevard project.
4	The Medium Tunnel 41st Avenue Station (WSJ-5) offers an option that is estimated to cost \$200 million less than the elevated Preferred Alternative 41st/42nd Avenue Station Alternative (WSJ-1) that goes into the heart of the West Seattle Junction. The Medium Tunnel has significantly fewer residential, business, and employee impacts. There is also significant support for the Preferred Tunnel 41st Avenue Station Alternative (WSJ-3a) and the Preferred Tunnel 42nd Avenue Station Option (WSJ-3b).	Please see response to CCG2 in Table 7-1.
5	Most riders will access the Delridge station via transfers. Consequently, transfer times are very important. A key point of the Racial Equity Toolkit is the importance of ensuring access from lower- income BIPOC communities to the south, including South Delridge and White Center. Consideration of transit- oriented development is also important to consider.	Please see responses to CC4.2a, CCEJ1, and CCEJ2 in Table 7-1.
6	The Andover Street Station Lower Height (DEL-6) has the lowest overall displacement impacts and does not directly cross the Youngstown community. I encourage study to improve the transit integration for commuters from communities to the south. I appreciate the pedestrian overpass refinement proposal for accessing this station. How this station would operate with truck access to Nucor is important to consider.	Please see response to CCG2 in Table 7-1.

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
7	The potential height of an elevated guideway on Genesee (150' in one option) is a significant concern. Should the Board consider an option on Genesee, I strongly encourage selection of one of the lower height options that connects to a tunnel.	Please see response to CC2e in Table 7-1.
8	It may be worth examining the ability of options to connect between segments. For example, WSJ- 5 and DEL-6 do not connect with any other options.	Due to the guideway height and location, not all alternatives studied in the Final EIS are able to connect to all alternatives in the adjacent segment.
9	I've heard a variety of perspectives in West Seattle about the Avalon station. Some, including nearby residents of the numerous multifamily buildings on Avalon Way, emphasize the development on and around Avalon, and potential future development, and think keeping this station is important. Others either support or could live with removing it, but only if it results in a commensurate benefit to the West Seattle community, such as a longer tunnel. As noted above, a key point of the Racial Equity Toolkit is the importance of ensuring access from lower-income BIPOC communities to the south. While a number of those communities would access the line via Delridge, the High Point community would be most likely to access the line via the Avalon station at or by 35th Avenue SW. So, eliminating this station would require a clear plan for providing timely access from High Point and adjacent communities on the 35th Avenue SW corridor.	Please see response to CC2j in Table 7-1. For Alternative WSJ-6, transit routes that travel on 35th Avenue Southwest would be re-routed to serve the Alaska Junction Station instead of the Avalon Station. See Attachment A of Appendix N.1, Transportation Technical Report, for additional information on transit integration assumptions.
10	Both the north and south crossings of the Duwamish have significant impacts to the community. The southern options have potential displacements of 22-26 residences on Pigeon Point, while the North option on Harbor Island has impacts to Harbor Island. The number of impacted businesses impacted is similar, though the south crossing affects 670 to 680 employees, versus the 400 for the north crossing.	Please see Sections 4.1, Acquisitions, Displacements, and Relocations and 4.3, Economics, of the Final EIS for updated information on residential, business, and employee displacements.
11	The West Seattle Bridge is currently undergoing repairs and is expected to continue in service through its original 75-year expected lifespan, roughly 2060. At that time, however, it will need to be replaced. Design of the Duwamish crossing will need to account for this.	The design of a future West Seattle Bridge replacement has not yet been approved. Based on coordination between Sound Transit and the City of Seattle to date, design of the light rail guideway over the Duwamish Waterway would not preclude future replacement of the West Seattle Bridge. Coordination between Sound Transit and the City of Seattle on this topic will continue as the West Seattle Link Extension and West Seattle Bridge projects advances.



City of Seattle

*Seattle
Freight
Advisory
Board*

Jeanne Acutanza

Johan Hellman

Geri Poor

Pat Cohn

Mike Elliott

Warren Aakervik

The Seattle Freight Advisory Board shall advise the City Council, the Mayor, and all departments and offices of the City in development of a functional and efficient freight system and on all matters related to freight and the impact that actions by the City may have upon the freight environment.

City Council Resolution
31243

April 28, 2022

Ms. Lauren Swift
Sound Transit
401 S. Jackson St.
Seattle, WA 98104

Via email: WSBLEDEIScomments@SoundTransit.org

Dear Ms. Swift

Re: Draft Environmental Impact Statement Comments
West Seattle and Ballard Link Extensions

This letter reflects the comments of the City of Seattle Freight Advisory Board (SFAB) regarding the Draft Environmental Impact Statement (DEIS) for Sound Transit's West Seattle and Ballard Link Extensions (WSBLE) dated January 20, 2022. We appreciate this opportunity to provide comments on regional transit investments that serve both of Seattle's Manufacturing Industrial Centers. The Seattle Freight Advisory Board was founded by Seattle Council Resolution to advise the Mayor and Council and all departments on matters related to freight and the impact that actions by others may have on Seattle's freight environment. Our comments on WSBLE are included in this letter.

As you may recall the SFAB, provided a letter on the EIS scoping on March 29, 2019, which we have attached herein. The draft EIS is complex and has ramifications well beyond the scope of any mega-project, and as such it requires understanding of all levels of work at earlier stages than would normally be considered.

Our comments on the scoping document specifically addressed impacts of construction. The WSBLE EIS defines general impacts of construction, but they are not described in adequate detail to understand the long-term impacts on freight movements. This affects not just people accessing a location but goods movements that are typically delivered by large vehicles (WB-67). Proposed construction in SODO and the Duwamish and Ballard Interbay North MICs needs to be clearly understood.

- The grade separations are proposed to span 2 street blocks (4th Ave to 6th Ave) when the Lander Grade Separation required a three-block span to support truck movement associated with Manufacturing, Maritime, and Logistics in the SODO and Duwamish Manufacturing Industrial Center (MIC).
- There should be consideration of the proposed grade separations on Holgate and Lander to minimize effects of steep grades on freight.
- Please also consider impacts to freight movement on 4th and 6th Avenues South from the addition of bus routes and bicycles who are no longer able to use the SODO busway and the bike trail, either during construction or during light rail operation.
- Similarly, please consider access in BINMIC as new piers create conflicts for turning movements along 15th/Elliott Avenues West.

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Given the effects of proposed land use changes to Maritime and Industrial Lands Zoning as noted in the City of Seattle's draft EIS on the "Seattle Industrial & Maritime Strategy," how would this impact freight circulation specifically large vehicles and around the proposed stations in the Ballard area? These locations affect 15th Ave W and proximal streets, land uses, and business accesses on the only North/South Major Truck Street connecting the south and north MIC's (BINMIC and Duwamish MIC). Similarly, in the Duwamish, please demonstrate the negative impacts of converting industrial land uses to light rail transportation uses. For example, changes to and near Major Truck Streets such as Spokane St and West Marginal Way carry outsized impacts to goods movement.

The Freight Advisory Board also speaks in support of the international trade gateway operating in the Duwamish Harbor. This is discussed in the Economic chapter, but there is potential for significant displacement, without recognition of the impacts that would have on the regional economy due to inter-reliance of the logistics supply chain. Please consider all opportunities to minimize and mitigate impacts of DUW-1a or DUW-1b and please do not proceed with DUW-2 which would displace businesses and impact the regions container terminals.

Freight also travels by train and ship. The DEIS recognizes impacts of bridge piers in the waterways and potential construction effects on freight rail operations. These navigational issues must be resolved or avoided in the Duwamish Waterway, the Elliott Bay Harbor and the Lake Washington Ship Canal.

While we recognize that a traditional draft EIS would not typically be addressing these concerns, we would hope Sound Transit commits to working closely with the City and specifically freight interests including SFAB in the development of final designs to resolve issues. Considering WSBLE impacts both MIC areas and does not provide details necessary to evaluate the impacts of the project's construction on freight, the SFAB would encourage ST to ongoing coordination related to freight impacts to minimize impacts to the efficient movement of freight and goods.

Sincerely,



Warren Aakervik,
For the Seattle Freight Advisory Board



City of Seattle

Jenny A. Durkan, Mayor

Seattle
Freight
Advisory
Board

March 29, 2019

Jeanne Acutanza, Chair

Johan Hellman

Geri Poor

Frank Rose

Pat Cohn

Dan McKisson

Mike Elliott

Kristal Fiser

Warren Aakervik

Todd Biesold

Kris DeBuck

WSBLE

c/o Ms. Lauren Swift, Central Corridor Environmental Manager

Sound Transit

401 S. Jackson Street Seattle

WA 98104-2826

(delivered via e-mail: WSBscopingcomments@soundtransit.org)

Dear Ms. Swift:

Re: NEPA/SEPA Scoping Comments from Seattle Freight Advisory Board
Sound Transit 3 West Seattle Ballard Link Extensions (WSBLE)

This letter reflects the comments of the City of Seattle Freight Advisory Board (SFAB) regarding the NEPA/SEPA scoping and purpose and need for the Sound Transit 3 West Seattle Ballard Link Extensions (WSBLE). The SFAB was founded by Seattle City Council resolution to advise the mayor, council, and city departments on matters related to freight and the impact that various activities may have on our freight environment.

We appreciate the project briefing given to SFAB on February 19, 2019. In accordance with the WSBLE NEPA/SEPA process, we are submitting these scoping comments on the alignment alternatives and general environmental impacts for your consideration.

In general, we support the purpose and need of the project, which is to provide high-capacity transit (HCT) for Seattle-area travelers. In addition to improving non-auto mobility, we encourage the project to protect and enhance freight movement in the region.

COMMENTS ON ELEMENTS OF THE ENVIRONMENT

Minimize Negative Freight Mobility Impacts

Freight movement – like HCT – is a critical component of Seattle’s transportation system. Potential effects of this light rail project on Seattle’s freight system must be identified and evaluated in the environmental review. The 2016 Seattle Freight Master Plan identifies the freight network for trucking activity on city arterials and streets, designating ‘limited access’, ‘major truck’, ‘minor truck’, and ‘first-/last-mile connector’ streets. Please identify potential construction and operating impacts on this network, especially in and between Seattle’s two Manufacturing/Industrial Centers (MICs). Please specifically consider and identify the effects that buses leaving the E-3 busway will have on SODO arterials and the effects the project may have on 15th Avenue W and Elliott Avenue W, which serve the Ballard MIC.

The Seattle Freight Advisory Board shall advise the City Council, the Mayor, and all departments and offices of the City in development of a functional and efficient freight system and on all matters related to freight and the impact that actions by the City may have upon the freight environment.

City Council Resolution 31243

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Minimize Construction Impacts

We understand that light rail construction is a complex, multi-year project and that construction impacts are temporary. That being said, these temporary impacts may be extremely disruptive to goods movement. In the MICs in particular, freight facilities operate throughout the day, and often in off-peak times. Trucks serving these MICs are long, wide, and heavy, and require large turn paths. Construction that occurs outside peak hours and occupies travel lanes - especially within the MICs - should be identified in the environmental review for mitigation of negative impacts and coordinated with freight interests well in advance. Potential negative impacts include increasing conflicts between freight and vulnerable travelers (non-motorized modes), particularly in MICs and along freight priority corridors.

Freight operates in very confined spaces in downtown Seattle. Please address, as part of project impacts, the need for delivery space in downtown. Please identify the need for light rail construction teams to coordinate with other, non-light rail construction operations to maintain adequate on-street and/or alley freight operations space throughout the project.

Boring (or mined) tunnel construction is preferred if it can be shown to reduce freight access restrictions and roadway closures. A cut-and-cover construction method would likely be far more disruptive.

For construction near navigable waterways, consider use of barges for hauling and construction. This may reduce the congestion, pollution, and noise impacts of construction trucks on city streets and the freight network.

Minimize Negative Economic Impacts

Freight movement – by water, rail, air, and road – is critical to our regional economy. Washington is one of the most trade-dependent states in the nation; freight-related industries support 1.46 million jobs and \$128.8 billion in domestic products statewide. Roughly 40% of all jobs in our state can be tied to trade-related activity. In the Puget Sound region, freight-dependent industries support almost 900,000 jobs and \$91.9 billion in domestic product. The two MICs in Seattle employ nearly 75,000 people, primarily in family-wage jobs.¹

Efficient freight movement is essential to this economic engine and to the family-wage jobs it provides. The West Seattle and Ballard light rail alignments will impact both of Seattle's PSRC-designated MICs. Impacts to freight and industrial/maritime operations in these MICs must be evaluated in the economic impact assessment in the environmental analysis. Considerations in this evaluation should include the value of freight to our economy in terms of urban deliveries/pickups, industrial and international imports/exports, and light rail's likely impacts to this value, during both construction and operation.

¹ Source: Seattle Industrial Areas Freight Access Project, May 2015

COMMENTS ON ALTERNATIVES

Alternative 1, Representative Project

This alternative would have significant effects on major truck streets, endangering freight movement. In particular, the Ballard Interbay North Manufacturing/Industrial Center (BINMIC) would be affected, as the proposed alignment travels along 15th Avenue W, cuts through the Port of Seattle's Fishermen's Terminal, and interrupts marine cargo movement on the ship canal with a mid-height movable bridge. We do not believe the construction and operational effects of this alignment could be mitigated.

Both 15th Avenue W and Elliott Avenue W are major truck streets that also transport hazardous materials. Locating guideway columns along these roadways needs to address the impacts to freight.

The location of the proposed Smith Cove station on Elliott Avenue W will increase pedestrian and bicycle traffic across Elliott Avenue W, even if a grade-separated option is provided. Increased crossings will impact this major freight route.

Alternative 2, West Seattle Elevated / C-ID 5th Ave / Downtown 6th Ave / Ballard Elevated Alignment

Crossing the Duwamish Waterway south of the West Seattle Bridge will have significantly less impact on freight circulation and access to Harbor Island freight terminals and industrial facilities.

Please provide more information on how the tunnel under Elliott Avenue W would be constructed. This undercrossing appears to have less of an operational impact than an aerial crossing, which is shown in Alternative 1 .

In Interbay, this alignment follows BNSF's Balmer Yard tracks. Please evaluate how this at-grade alignment would limit future spur line access to land between the railyard and 15th Avenue W.

Please identify the potential effects of constructing and operating a bridge over the Lake Washington Ship Canal, including impacts on marine navigation and maritime business access (both via road and water). Please recognize that many businesses on the ship canal are completely dependent upon water access and may not be able to re-establish their activities if forced to relocate.

Alternative 3, West Seattle Tunnel / C-ID 4th Ave / Downtown 5th Ave / Ballard Tunnel

By crossing the Duwamish Waterway north of the West Seattle Bridge, there will likely be significantly greater impacts on freight circulation and industrial operations, considering the surface roads below (SW Spokane Street and Klickitat Avenue). These roadways provide access to freight origins and destinations on Harbor Island, including the Port of Seattle's Terminal 18 and other private terminals and shipyards.

Please evaluate impact to freight traffic as this alignment enters downtown on 4th Avenue S, and how a cut-and-cover tunnel would compare with a mined tunnel during construction.

Our comments on Alternative 2 regarding the relationship of the proposed light rail guideway to BNSF Balmer Yard, Elliott Ave W, and 15th Avenue W are also concerns for this alignment.

COMMENTS ON PURPOSE & NEED STATEMENT

Overall, we support the purpose and need statement, yet recommend that the project statement acknowledge that it crosses through our city's two PSRC-designated industrial zones (MICs). We feel strongly that where these Link extensions pass through MICs (Duwamish and Ballard-Interbay), planning and construction respects the vitality and regional economic contributions of these areas. Seattle's MICs have developed over time with synergistic land uses and transportation systems that support freight access and mobility. As this project moves forward, increased transit passenger mobility must be balanced with industrial capacity and capability. In this context, it is essential to note that:

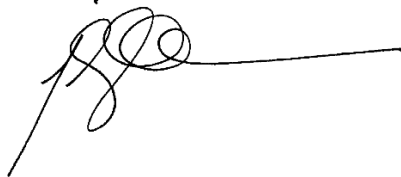
- Existing freight mobility (for all modes: road, rail, marine, etc.) must be maintained and the project designed so as to not preclude future development of freight infrastructure
- MIC employment densities are inherently lower than those in other regionally- and locally-designated centers
- Traditional transit-oriented development (TOD), which typically includes housing and ground floor commercial, is inappropriate in MICs

The current 'need' section includes six bullet points. We recommend these reflect the important differences of station areas in the MICs. Please consider the following underlined addition to bullet six:

- Regional and local plans call for increased residential and/or employment density at and around most high-capacity transit (HCT) stations, where consistent with local zoning.

We look forward to working with Sound Transit to address impacts to freight as part of the environmental documentation and we appreciate Sound Transit's efforts to reach out to City of Seattle advisory boards.

Sincerely,



Jeanne Acutanza
Chair, Seattle Freight Advisory Board

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 502940 - Seattle Freight Advisory Board Draft EIS Comment

#	Comments	Responses
1	The WSBLE EIS defines general impacts of construction, but they are not described in adequate detail to understand the long-term impacts on freight movements. This affects not just people accessing a location but goods movements that are typically delivered by large vehicles (WB-67). Proposed construction in SODO and the Duwamish and Ballard Interbay North MICs needs to be clearly understood. • The grade separations are proposed to span 2 street blocks (4th Ave to 6th Ave) when the Lander Grade Separation required a three-block span to support truck movement associated with Manufacturing, Maritime, and Logistics in the SODO and Duwamish Manufacturing Industrial Center (MIC).	Please see response to CC2b in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. Please see Section 3.10, Affected Environment and Impacts During Operation-Freight Mobility and Access and Section 3.11, Construction Impacts, of the Final EIS for more information on potential impacts on freight mobility and proposed mitigation. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
2	There should be consideration of the proposed grade separations on Holgate and Lander to minimize effects of steep grades on freight.	Sound Transit has coordinated with the city of Seattle, the Port of Seattle, and the Northwest Seaport Alliance regarding the design of the South Lander Street overpass as design has advanced. A response to this comment related to the South Holgate Street overpass will be provided as part of the environmental review process for the Ballard Link Extension.
3	Please also consider impacts to freight movement on 4th and 6th Avenues South from the addition of bus routes and bicycles who are no longer able to use the SODO busway and the bike trail, either during construction or during light rail operation.	Please see response to CC3c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. Please see Section 3.11, Construction Impacts, for more information on potential impacts on all modes during construction. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.
4	Similarly, please consider access in BINMIC as new piers create conflicts for turning movements along 15th/Elliott Avenues West.	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
5	Given the effects of proposed land use changes to Maritime and Industrial Lands Zoning as noted in the City of Seattle's draft EIS on the "Seattle Industrial & Maritime Strategy," how would this impact freight circulation specifically large vehicles and around the proposed stations in the Ballard area? These locations affect 15th Ave W and proximal streets, land uses, and business accesses on the only North/South Major Truck Street connecting the south and north MIC's (BINMIC and Duwamish MIC).	A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.
6	Similarly, in the Duwamish, please demonstrate the negative impacts of converting industrial land uses to light rail transportation uses. For example, changes to and near Major Truck Streets such as Spokane St and West Marginal Way carry outsized impacts to goods movement.	Please see Section 4.2, Land Use, and Section 5.4.3 of the Final EIS for more information on direct and cumulative conversion of industrial lands. See Section 4.3, Economics, for discussion of potential economic impacts to the freight industry.

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
7	<p>The Freight Advisory Board also speaks in support of the international trade gateway operating in the Duwamish Harbor. This is discussed in the Economic chapter, but there is potential for significant displacement, without recognition of the impacts that would have on the regional economy due to inter-reliance of the logistics supply chain. Please consider all opportunities to minimize and mitigate impacts of DUW-1a or DUW-1b and please do not proceed with DUW-2 which would displace businesses and impact the regions container terminals. Freight also travels by train and ship. The DEIS recognizes impacts of bridge piers in the waterways and potential construction effects on freight rail operations. These navigational issues must be resolved or avoided in the Duwamish Waterway, the Elliott Bay Harbor and the Lake Washington Ship Canal.</p>	<p>Please see response to CC3c in Table 7-1. Please see Section 2.1, Build Alternatives, of the Final EIS for a description of modifications made to Preferred Alternative DUW-1a between the Draft and Final EIS, including assumptions about bridge type and columns in the Duwamish Waterway. See Section 3.9, Affected Environment and Impacts During Operation - Navigation and Section 3.10 Affected Environment and Impacts During Operation - Freight Mobility and Access for updated discussion of impacts on navigation and railroad operations related to these design changes. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
8	<p>While we recognize that a traditional draft EIS would not typically be addressing these concerns, we would hope Sound Transit commits to working closely with the City and specifically freight interests including SFAB in the development of final designs to resolve issues. Considering WSBLE impacts both MIC areas and does not provide details necessary to evaluate the impacts of the project's construction on freight, the SFAB would encourage ST on ongoing coordination related to freight impacts to minimize impacts to the efficient movement of freight and goods.</p>	<p>Sound Transit has coordinated closely with the City of Seattle, Port of Seattle, and the Northwest Seaport Alliance regarding design of the West Seattle Link Extension in regard to freight mobility. This coordination will continue as design advances. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>



City of Seattle

Seattle Planning Commission

Sent via e-mail: WSBLEDEIScomments@soundtransit.org

April 28, 2022

Subject: Seattle Planning Commission comments on the West Seattle and Ballard Link Extensions Draft Environmental Impact Statement

The Seattle Planning Commission appreciates the opportunity to comment on Sound Transit's West Seattle and Ballard Link Extensions (WSBLE) Draft Environmental Impact Statement (DEIS). The Seattle Planning Commission is a 16-member independent, volunteer advisory body. We provide guidance and recommendations to the City of Seattle's Mayor and City Council, as well as City departments on planning goals, policies, and plans for the physical development of the City. The Planning Commission is very supportive of this project and offers the following comments and recommendations to create the best possible transit investment for the benefit of Seattle and the region. Thank you in advance for your attention to our perspectives. We look forward to the opportunity to continue to review and provide recommendations on this significant transit infrastructure and how it will serve the region's and Seattle's many communities.

Introduction

- The Planning Commission strongly urges Sound Transit to evaluate the benefits and impacts of the WSBLE project through a lens that considers a hundred-year horizon, well beyond the short-term construction timeline for this project.
- The EIS should clearly identify how the many factors considered in the analysis will be weighed and balanced in the final selection of the preferred alternative.
- The EIS should clarify what thresholds were used to determine what was considered an impact to be raised in the analysis.
- Sound Transit and the City should continue to work together on issues that require ongoing interagency cooperation and coordination, including identification of a final preferred alternative, appropriate and meaningful mitigation measures, the centering of racial equity considerations, and station area planning.

The Planning Commission serves as the steward of Seattle's Comprehensive Plan. This Plan and its Future Land Use Map reflect Seattle's adopted vision for managing growth. The Planning Commission recognizes the critical intersection of population growth, land use, and transportation. Seattle's ongoing and anticipated growth necessitates a significant investment in transit including the WSBLE project. The anticipation of future light rail extensions will likely lead to land use changes and increased density around the stations. The study and eventual selection of alignments and station locations is critical as near-term decisions will determine the potential for

Commissioners

Rick Mohler, *Co-Chair*

Jamie Stroble, *Co-Chair*

Mark Braseth

McCaela Daffern

Roque Deherrera

David Goldberg

Matt Hutchins

Patience Malaba

Austin Moreman

Radhika Nair

Alanna Peterson

Dhyana Quintanar

Julio Sanchez

Lauren Squires

Rose Lew Tsai-LeWhitson

Staff

Vanessa Murdock
Executive Director

Olivia Baker
Policy Analyst

John Hoey,
Senior Policy Analyst

Robin Magonegil
Administrative Analyst

long-term station area planning, equitable transit-oriented development, and placemaking opportunities. Leveraging this significant transit infrastructure investment to benefit all Seattle communities, including those who live, work, and play here, should be our collective priority.

The Planning Commission strongly urges Sound Transit to evaluate the benefits and impacts of the WSBLE project through a lens that considers a hundred-year horizon, well beyond the short-term construction timeline for this project. Keeping this long-term perspective in mind, the EIS should clearly identify how the many factors considered in the analysis will be weighed and balanced in the final selection of the preferred alternative. We recommend an approach that balances the need for consistent evaluation of all stations according to Sound Transit's criteria with the fact that all station areas are unique in current use and past histories, and as such require an evaluation of impacts and proposed mitigation that align with the needs and history of each community area. Sound Transit should clearly identify and make transparent the rationale for the evaluation criteria in the Final EIS. Similarly, the EIS should clarify what thresholds were used to determine what was considered an impact to be raised in the analysis. Lastly, in areas where mitigation measures are explained by referring to a policy or document external to the EIS, greater detail should be included within the body of the EIS to summarize the measures that result from the referenced policies or regulations.

We commend Sound Transit for a comprehensive body of work represented by the DEIS. The Planning Commission would like to call attention to the need for additional analysis by Sound Transit and the City of Seattle to create the best outcomes from this significant transit investment. We strongly urge Sound Transit and the City to continue to work together on issues that require ongoing interagency cooperation and coordination, including identification of a final preferred alternative, appropriate and meaningful mitigation measures, the centering of racial equity considerations, and station area planning.

Equity and Environmental Justice

- Particular attention should be paid to minimizing, if not avoiding, potential negative impacts in the Chinatown/International District (C/ID) and Delridge neighborhoods.
- More of the valuable knowledge shared by communities in the Racial Equity Toolkit (RET) process should be reflected in the EIS.
- The EIS should indicate what measures will be taken to ensure access is maintained to all businesses, services, and public spaces for impacted C/ID communities in the project corridor.
- Mitigation measures for businesses impacted by construction in the C/ID and Delridge should be provided in greater detail and additional measures should be considered for high-risk businesses.
- Sound Transit should identify how the project will restore impacted areas and partner with the City and other agencies to repair a long history of harm.

The Chinatown/International District (C/ID) and Delridge communities have both experienced historic and continued inequities. While negative impacts may be experienced by communities along the entirety of the West Seattle and Ballard alignments, particular attention should be paid to minimizing, if not avoiding, potential negative impacts in these neighborhoods due to the cumulative effect of the negative impacts they have already experienced. We are encouraged that the City of

Seattle has partnered with Sound Transit on the application of the Racial Equity Toolkit (RET) on this project. The Planning Commission would like to see more of the valuable knowledge shared by communities in the RET process reflected in the EIS. The planning process should optimize the hundred-year plus benefits of this transit infrastructure while minimizing any potential disproportionate short- and long-term impacts to the affected communities.

The RET indicates that the C/ID is the only station area in the WSBLE project corridor where the population of communities of color is higher than the citywide average of 34 percent. Within the C/ID, people of color account for 65 percent of the population. The C/ID faces the additional equity challenges of a median household income well below the city average, a higher-than-average proportion of residents who are elderly and disabled and compounding environmental stressors that result in an average life span that is shorter than other Seattle communities¹. Given this combination of equity concerns and history of inequitable outcomes from infrastructure projects, the C/ID must be treated with additional attention and care. The EIS should indicate what measures will be taken to ensure access is maintained to all businesses, services, and public spaces for impacted C/ID communities in the project corridor. Sound Transit and the City of Seattle must work together to not only minimize negative impacts to C/ID communities but also to find new partnerships with communities and repair past harms. Efforts should be made to go beyond the minimum requirements of construction mitigation to ensure a high quality of residential and business life is maintained for those who live, work, and play in the area throughout the construction process.

Within both the C/ID and Delridge, communities have noted the large number of potential business displacements associated with each alignment option. The Planning Commission is concerned about impacts to social cohesion and the ability of impacted businesses to relocate within their respective neighborhoods. Within the C/ID, the proposed alignments along Fifth Avenue will cause temporary and permanent changes to key businesses and landmarks, such as the Chinatown gate, that could also impact the cultural identity of the neighborhood. The Planning Commission would like to see a discussion included in the EIS of what potential costs the City of Seattle and/or a third party would need to absorb to make the Fourth Avenue alignment more feasible.

Even with relocation assistance provided by Sound Transit, the Planning Commission is concerned that businesses displaced or temporarily impacted by construction will not be able to weather the impacts to their income. Even temporary changes to access for community members during construction can have a large impact on the social fabric of the community, particularly when impacted businesses serve as cultural anchors to a community. The planned mitigation measures for businesses impacted by construction in the C/ID and Delridge should be provided in greater detail and additional measures should be considered for high-risk businesses that may not be able to withstand temporary closures or relocation. We provide some suggestions for how to better represent the differential impacts to businesses and the communities they serve in the Housing and Displacement section of this letter below. The Planning Commission recommends expanding the

¹ Sound Transit and City of Seattle. "West Seattle and Ballard Link Extensions Racial Equity Toolkit Report: Environmental Review Phase," February 2022. <https://www.soundtransit.org/sites/default/files/documents/west-seattle-ballard-link-extensions-ph-2-racial-equity-toolkit-draft.pdf>, p. 8.

analysis of business displacements in the EIS to include an equity lens. This expanded analysis will provide a more complete picture of how business displacements impact surrounding communities.

Sound Transit should identify how the project will restore impacted areas and partner with the City and other agencies to repair a long history of harm. The benefits referenced in the DEIS to balance the numerous harmful impacts of such a large-scale infrastructure project are at times vague, such as improved travel experience or improved connections to culturally relevant businesses. Such benefits are inherent in an improved transit system, but they do not explain what specific mitigation measures Sound Transit will take to avoid adding to the history of harm in the C/ID and Delridge. Sound Transit should identify how their approach will create additional co-benefits with the communities impacted by the project. The decision-making process for alignments in the C/ID and Delridge needs to be more transparent and must be responsive to the concerns of the community. The Planning Commission recognizes that Sound Transit is making an effort to conduct additional community engagement in these two neighborhoods. Sound Transit should clarify to what extent the community input will be included in the final decision-making process.

Climate Change

- The EIS should clearly demonstrate how Sound Transit will address sustainability and climate resiliency goals for the WSBLE project.
- The EIS should analyze potential long-term impacts of climate change on the WSBLE project and include what mitigation measures will be taken to make the project resilient against those impacts.
- The DEIS does not sufficiently recognize the impacts of climate change and environmental health in industrial areas. The EIS should identify proactive actions to plan for and mitigate sea level rise and flooding impacts. The EIS should also identify specific mitigation actions for future stations in industrial areas with contaminated soils.

Given that the West Seattle and Ballard Link Extensions will be a key component of Seattle's transportation network for the next 50-100 years, the Planning Commission encourages Sound Transit to include an analysis of the forecasted impact of climate change on the stations and guideways. Estimates show that Seattle will likely experience at least 10 inches of sea-level rise by 2050 and 28 inches by 2100². A map of sea-level rise created by Seattle Public Utilities shows that several of the WSBLE project segments fall into areas of concern for sea level rise, such as the SODO, Duwamish, and Smith Cove segments. The analysis should explore how projections of sea-level rise, changes in precipitation, and other climate shifts could impact the portions of the project located near shorelines and tidal flat fill areas.

The DEIS references the Sound Transit 2019 Sustainability Plan as a guiding document for how the project will address sustainability and climate adaptation goals. The Planning Commission appreciates Sound Transit's goals to improve the sustainability of capital projects, from reducing energy and water use at facilities to creating projects that meet LEED Platinum certification standards. The

² Seattle Public Utilities. "Projected Climate Changes." Seattle.gov. City of Seattle. Accessed March 16, 2022. <https://www.seattle.gov/utilities/protecting-our-environment/community-programs/climate-change/projected-changes>.

sustainability plan also aims to conduct a Climate Change Vulnerability Assessment for each major system capital expansion project. The DEIS, however, does not indicate whether a climate change assessment was conducted for the WSBLE project or which of the goals, if any, will be achieved through the Sound Transit 3 expansion. Sound Transit and the City of Seattle must work together to build infrastructure with a minimal carbon footprint and a high level of sustainability. Light rail expansion will support the region's goals to improve sustainability by increasing transit use and reducing single occupancy vehicle use, but such a large-scale project must go further to protect against the negative climate impacts created by construction and operation as well. The EIS should clearly demonstrate how Sound Transit will address sustainability and climate resiliency goals for the WSBLE project.

Climate change is one of the most pressing issues of our time and the dangers it presents cannot be ignored. Our region cannot afford to complete large-scale projects that do not utilize the latest technology to minimize climate impact and ensure the long-term investment can endure projected changes. The EIS should analyze potential long-term impacts of climate change on the WSBLE project and include what mitigation measures will be taken to make the project resilient against those impacts. The EIS should include a clear summary of the climate considerations explored in the analysis. If the analysis indicates that some alignment alternatives would have different sustainability outcomes, those differences should be included in the alternatives comparison matrix in order to facilitate the consideration of climate concerns in the preferred alternative selection process.

The Planning Commission is concerned that the DEIS does not sufficiently recognize the impacts of climate change and environmental health in industrial areas. The future station areas in Interbay and SODO are low in elevation and at high risk of sea level rise. Changing precipitation rates will increase risk of flooding in these areas. The EIS should identify proactive actions to plan for and mitigate those impacts. The station designs should maximize every opportunity to incorporate sustainability, including green stormwater infrastructure and sustainable materials. The EIS should also identify specific mitigation actions for future stations in industrial areas with contaminated soils.

Transit-Oriented Development

- Sound Transit should be intentional about selection of alignment options that support the potential for transit-oriented development in station areas, especially in the immediate station context.
- The EIS should analyze how each alternative will impact the urban fabric when compared to the current and future land use maps. Considerations should include the development potential of remnant parcels, expected development of the area based on current zoning, and what alternatives would require changes to zoning to maximize the efficiency of the new stations.

The future WSBLE stations represent part of a collective vision for growth in Seattle. The Sound Transit 3 project will connect neighborhoods and areas of the city in new ways and will influence how communities interact with the new station areas for decades to come. The city cannot miss this opportunity to help shape excellent urban spaces around each station. Sound Transit and the City of Seattle are already coordinating on station area planning and design to ensure new stations fit cohesively into the existing context of each neighborhood. Part of this coordination must also include

how to best support transit-oriented development (TOD) and how to maximize planning for these station areas in the Major Update to the Comprehensive Plan.

The Planning Commission appreciates Sound Transit's efforts to develop an Equitable TOD (eTOD) policy that prioritizes affordable housing and community partnerships for the use of surplus property after construction is complete. Sound Transit's commitment to working with communities, particularly underrepresented communities, in the development of remnant parcels and station areas must be elevated and progress toward this goal made transparent. The Planning Commission wants to ensure that the needs of local communities, particularly Black, Indigenous, and people of color (BIPOC) and low-income communities, are not lost in a calculation of highest intensity development opportunities or the most cost-effective selection of parcels. In accordance with their eTOD policy, Sound Transit should be intentional about selection of alignment options that support the potential for coherent future development in station areas, especially in the immediate station context.

Alignment choices that leave behind oddly shaped or scattered parcels that are unsuitable for development have a lasting impact on the urban fabric. The legacy of planning for future development of land impacted by light rail construction is evident in South Seattle where there are still undeveloped remnant parcels in the project corridor. The vacant parcels are an unfortunate use of space in a city struggling to accommodate rapid growth and create an unpleasant environment for those who live, work, play, and commute in the area.

Future potential to develop welcoming, resonant, and useful urban spaces post-construction should be part of the evaluation for a preferred alignment. The EIS should analyze how each alternative will impact the urban fabric when compared to the current and future land use maps. Considerations should include the development potential of remnant parcels, expected development of the area based on current zoning, and what alternatives would require changes to zoning to maximize the efficiency of the new stations. To support this process, eTOD opportunities and challenges associated with each station alternative explored in the EIS in section 4.2/3.2.5.2 should be summarized and included in the alternative comparison matrix in the EIS. Inclusion in the matrix will help decision makers keep this factor in mind when balancing the many impacts of each alternative.

Stations in Industrial Areas

- The Planning Commission is concerned about potential displacement of industrial businesses, impacts to freight corridors, and economic, transportation, and construction effects that may result from siting future light rail stations in areas currently zoned for industrial uses.
- Sound Transit should consider the potential for land use and resulting ridership changes associated with the various industrial zoning scenarios proposed in the City's Industrial and Maritime Strategy.
- The EIS should clearly identify how future light rail stations will interact with the surrounding and/or adjacent industrial and maritime lands. This includes identification of land use and transportation impacts around light rail stations in industrial areas.
- Sound Transit should coordinate with the City to consider the development potential of light rail stations in industrial areas and evaluate the potential for transit-oriented development and

associated ridership using both continued industrial zoning designation and zoning that anticipates increases in commercial and residential uses.

- The EIS should include a more robust analysis that recognizes the need for balanced use of arterial streets around stations in industrial areas for freight mobility and multi-modal transportation for workers connecting to job centers. The EIS should identify appropriate mitigation measures to ensure optimized access and safe travel options for both workers and other users.

Of the fourteen planned stations along the various WSBLE alignments, six are either within industrial zones or capture a significant amount of industrial zoned land within their walksheds. Four of these stations – SODO, Smith Cove, Interbay, and Ballard – are within the City’s designated manufacturing/industrial centers (M/ICs), the Ballard/Interbay/Northend M/IC (BINMIC) and the Greater Duwamish M/IC. The Planning Commission has historically advocated for protection of industrial and maritime lands and the jobs that are created within those sectors. We recommend that the final preferred alternative minimize or avoid impacts to the long-term viability of Seattle’s industrial lands. We are concerned about potential displacement of industrial businesses, impacts to freight corridors, and the resulting short- and long-term economic, transportation, and construction effects that may result from siting future light rail stations in areas currently zoned for industrial uses. We have also already shared our concerns in the Climate Change section of this letter above that the DEIS does not sufficiently recognize the impacts of climate change and environmental health in industrial areas.

The Planning Commission has a particular interest in considering changing trends in industrial and manufacturing uses and how that may affect future development in the BINMIC and Greater Duwamish M/IC. We have noticed that the land use analysis in the WSBLE DEIS is based on current zoning in industrial and maritime areas and does not reflect the proposed zoning changes studied in the City of Seattle’s Industrial and Maritime Strategy DEIS. We recognize that the proposed Industrial and Maritime Strategy has not been officially adopted at this time, but strongly recommend that Sound Transit consider the potential for land use and resulting ridership changes associated with the various industrial zoning scenarios proposed by the City. The Industrial and Maritime Strategy includes innovative land use strategies for the future of industry that will create significant economic development opportunities near those light rail stations in and adjacent to industrial areas. Sound Transit and the City should coordinate to ensure consistency between job growth and ridership projections in the Industrial and Maritime Strategy DEIS and the WSBLE DEIS.

The Planning Commission has consistently encouraged a comprehensive approach to determining a mix of uses in the walksheds around future light rail stations in industrial areas that optimizes the light rail investments without diminishing the functionality and viability of existing industrial and maritime lands. We strongly recommend that the EIS clearly identify how future light rail stations will interact with the surrounding and/or adjacent industrial and maritime lands. This includes identification of land use and transportation impacts around light rail stations in industrial areas. The Planning Commission has significant concern about business displacement in industrial areas, particularly for small businesses and businesses that have limited options for geographic location. The EIS should identify proactive mitigation to prevent economic impacts or business closures.

The Planning Commission recognizes the tension between preservation of industrial lands and the growth of 15-minute neighborhoods, sometimes referred to as complete neighborhoods. However, we believe that the WSBLE project and the City's Industrial and Maritime Strategy can work together as part of a larger economic development strategy for Seattle. Sound Transit should coordinate with the City to consider the development potential of light rail stations in industrial areas, including opportunities for equitable transit-oriented development. We request that Sound Transit evaluate the potential for transit-oriented development and associated ridership using both continued industrial zoning designation and zoning that anticipates increases in commercial and residential uses. The Planning Commission is concerned that the EIS alternatives directly impact developable industrial land in some specific locations. For example, one alternative in South Interbay bisects industrial land, preventing a significant opportunity for future development. Sound Transit and the City should coordinate with the State of Washington in redevelopment of the twenty-five-acre Seattle Armory property, currently occupied by the Washington National Guard, which is adjacent to the light rail alignment in Interbay.

The WSBLE project is part of Sound Transit's regional system that will allow workers to access jobs from neighborhoods across the city and from outside of Seattle. One anticipated impact of the future stations in industrial areas is more pedestrians and bike traffic in areas with large streets and heavy truck traffic. The DEIS states that increased access to transit from the WSBLE project will result in reduced automobile use, increasing efficiency on freight routes. The Planning Commission recommends a more robust analysis that recognizes the need for balanced use of arterial streets around stations in industrial areas for freight mobility and multi-modal transportation for workers connecting to job centers. The EIS should identify appropriate mitigation measures to ensure optimized access and safe travel options for both workers and other users.

Transportation, Transit, Multi-Modal Connections

- The EIS should clearly identify how each alternative would affect transit access and efficiency, especially for transit-dependent populations and BIPOC communities.
- The EIS analysis should identify transit re-routing plans to maximize efficient commuting to job centers. Sound Transit and King County Metro should coordinate transit restructuring and work with the City to ensure coverage of most of Seattle within a short walk of frequent transit.
- The Planning Commission recommends evaluating transit integration and non-motorized (bike/pedestrian) access at each of the proposed station locations. The EIS should also consider the potential increase in rideshare use to access light rail stations.

The WSBLE project presents a key opportunity to ensure that people that live, work, or play in Seattle have safe, affordable, reliable travel alternatives. WSBLE project planning must place significant emphasis on convenience and usability of the system, especially making sure people can safely access and use the stations. The EIS should clearly identify how each alternative would affect transit access and efficiency, especially for transit-dependent populations and BIPOC communities. We recognize that the future light rail extensions will replace or restructure existing bus routes and change access to the 15-minute transit network. The EIS analysis should identify transit re-routing plans to maximize efficient commuting to job centers. Sound Transit and King County Metro should coordinate transit restructuring and work with the City to ensure coverage of most of Seattle within a

short walk of frequent transit. Network restructuring should achieve better levels of transit access for most of the city than we have now. Ongoing data collection after completion of the WSBLE project can be used to monitor and adapt transit changes to re-route bus resources more effectively.

The Planning Commission recommends evaluating transit integration and non-motorized (bike/pedestrian) access at each of the proposed station locations. The WSBLE project must link seamlessly and efficiently into a robust multi-modal network. The EIS should also consider the potential increase in rideshare use to access light rail stations. This analysis should be used to incorporate rideshare access and loading zones into station designs.

Housing and Displacement

- The Planning Commission has significant concerns about the potential for displacement within the C/ID and Delridge neighborhoods along the project corridor. The EIS does not include analysis of potential impacts of indirect displacement and the disruption to social cohesion when residents and culturally significant businesses are forced to move.
- Sound Transit should work with the City of Seattle to assess the potential for indirect displacement within each project segment and to discuss mitigation strategies to minimize displacement.
- The analysis of business displacements in the C/ID and Delridge should be expanded to identify impacted businesses by name and assess their relative ability to withstand relocation.
- The EIS should include a similar analysis to that included in the Racial Equity Toolkit that compares the number of businesses lost with the number and types of businesses that could be accommodated by new development. The analysis should also include what measures are in place to ensure new commercial spaces meet the needs of the impacted communities.

The WSBLE project will create major disruptions within the neighborhoods where new guideways and stations are built. The Planning Commission has significant concerns about the potential for displacement within the C/ID and Delridge neighborhoods along the project corridor. We have previously requested that Sound Transit conduct a rigorous analysis to identify ways to minimize, if not avoid, commercial and residential displacement resulting from guideway and station construction. We also requested an assessment of the potential for affected property owners to relocate within the same area. Sound Transit acknowledges within the DEIS that some homes and businesses will be displaced, and that relocation support will be provided to those who must move to accommodate the project. However, the DEIS does not present the full picture of potential displacement. The existing analysis leaves out potential impacts of indirect displacement and the disruption to social cohesion when residents and culturally significant businesses are forced to move. The EIS could also do more to explore the potential for property owners to relocate within the neighborhood and offer mitigation opportunities to maximize this potential.

Major infrastructure investments such as light rail are known to be a factor in the indirect displacement of low-income and BIPOC communities. In addition to the assessment of direct displacements provided in the DEIS, Sound Transit should work with the City of Seattle to assess the potential for indirect displacement within each project segment and to discuss mitigation strategies to minimize displacement specific to each location and adjacent communities. The assessment and

mitigation strategies could be informed by lessons learned from Sound Transit 1 and Sound Transit 2 and the communities impacted by those portions of the light rail system.

The DEIS includes a high-level look at the number of businesses and residences that will be displaced by each alternative, but the numbers included in the alternatives comparison charts oversimplify the impacts. Such a high-level summary does not fully convey the impact of displacement on financially vulnerable households and businesses and the overall impact of many displacements to the social fabric of a tightly knit community. Although it is challenging to include significant detail in a comparison matrix, the matrix will likely be relied upon to help decision makers balance the many complicated impacts of each alternative. Displacement should be included in the matrix in a more nuanced way, perhaps through an indexed score or impact scale, that could take into account additional details such as whether residential displacements include affordable housing units or when potentially displaced businesses are identified as culturally significant by the community. These additional details should be broken down clearly for each alternative and highlighted in the summary matrix that compares impacts across alternatives to ensure the information is considered in the final alignment selection.

In Section 4.2, the DEIS provides more detail on the maritime businesses that may be impacted by the project for the Duwamish segment of the project, but the same level of detail is not provided for businesses in other segments. The analysis of business displacements in the C/ID and Delridge should be expanded to identify impacted businesses by name and assess their relative ability to withstand relocation. Some businesses may not be able to successfully adapt to a new space or may not be able to maintain their customer base even if only relocated a few blocks away from their original location. Relocation outside of the neighborhood will simply not work for most businesses in the C/ID and even short-term closures or access issues can disrupt vital community support networks. Women or BIPOC-owned small businesses and cultural anchors that may be displaced by the alternatives should also be highlighted.

The RET includes a more detailed exploration of community impacts for the C/ID and touches on business displacement. The RET helpfully tries to compare the number of businesses displaced by the alternatives with the amount of new commercial space that could be built after the project is complete. Unfortunately, the analysis compares the number of businesses lost to the potential square footage of new commercial space, which is an apples to oranges comparison that does not convey whether the space added will be sufficient or compatible to replace the lost space. The EIS should include a similar analysis that compares the number of businesses lost with the number and types of businesses that could be accommodated by new development. The analysis should also include what measures are in place to ensure new commercial spaces meet the needs of the impacted communities.

Visual Impacts


- The existing visual representations provided by Sound Transit do not sufficiently demonstrate the anticipated cumulative effects of the various elevated guideways and stations. Additional visualizations are essential to understanding the potential impacts of these alternatives.
- Sound Transit should clearly identify the criteria used for evaluating the level of visual impacts.

- Community members should have the opportunity to be involved in determining or assessing the documented visual impacts.

The WSBLE project includes guideways and station platforms of a significant height that present visual and quality of life impacts to the communities these alignments will traverse. Community members raised their concerns with these potential impacts during consideration of which alternatives to include in the DEIS. The Planning Commission's DEIS scoping letter recommended that Sound Transit clearly identify visual impacts of all elevated guideways and stations using the latest and best visualization technology and methods, including photorealistic 3-D imagery. While we appreciate inclusion of visual representations in the DEIS, the existing images provided by Sound Transit do not sufficiently demonstrate the anticipated cumulative effects of the various elevated guideways and stations. Additional visualizations from a greater number of viewpoints and especially from a ground-level pedestrian perspective are essential to understanding the potential impacts of these alternatives. The Planning Commission also recommends that Sound Transit clearly identify the criteria used for evaluating the level of visual impacts. We are concerned that community members have not been involved in determining or assessing the documented visual impacts. The various communities along the DEIS alternatives should be involved in deciding what they consider the value of their built environment and to what degree the added light rail infrastructure would affect it.

We appreciate the opportunity to provide our comments on the DEIS. If you have any questions, please do not hesitate to contact Vanessa Murdock, Seattle Planning Commission Executive Director, at vanessa.murdock@seattle.gov

Sincerely,

Two handwritten signatures in black ink. The signature on the left is more legible and appears to be 'Jamie Stroble'. The signature on the right is more stylized and appears to be 'Rick Mohler'.

Rick Mohler and Jamie Stroble, Co-Chairs
Seattle Planning Commission

Disclosures/Recusals: Commissioner Dhyana Quintanar disclosed that her employer, WSP, supports the West Seattle and Ballard Link Extensions project through a general engineering contract with Sound Transit. She recused herself from the discussion. Commissioner Rose Lew Tsai-Le Whitson disclosed that her employer, Jacobs Engineering, is part of the team producing the Environmental Impact Statement (EIS) for this project. She recused herself from the discussion. Commissioner Alanna Peterson disclosed that her employer, Pacifica Law Group, does work for Sound Transit on land use and other issues. She recused herself from the discussion.

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 503119 - Seattle Planning Commission Draft EIS Comment

#	Comments	Responses
1	<p>The Planning Commission strongly urges Sound Transit to evaluate the benefits and impacts of the WSBLE project through a lens that considers a hundred-year horizon, well beyond the short-term construction timeline for this project. Keeping this long-term perspective in mind, the EIS should clearly identify how the many factors considered in the analysis will be weighed and balanced in the final selection of the preferred alternative. We recommend an approach that balances the need for consistent evaluation of all stations according to Sound Transit's criteria with the fact that all station areas are unique in current use and past histories, and as such require an evaluation of impacts and proposed mitigation that align with the needs and history of each community area. Sound Transit should clearly identify and make transparent the rationale for the evaluation criteria in the Final EIS. Similarly, the EIS should clarify what thresholds were used to determine what was considered an impact to be raised in the analysis.</p>	<p>Please see response to CCG3 in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. Considerations in deciding an alternative are not specifically weighted. The WSBLE Draft EIS and Final EIS disclose impacts tables based on established methodologies, and are not evaluation criteria. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
2	<p>Lastly, in areas where mitigation measures are explained by referring to a policy or document external to the EIS, greater detail should be included within the body of the EIS to summarize the measures that result from the referenced policies or regulations.</p>	<p>Please see response to CCG1 in Table 7-1. Where appropriate, additional detail on mitigation is provided in technical appendices of the Final EIS.</p>
3	<p>We strongly urge Sound Transit and the City to continue to work together on issues that require ongoing interagency cooperation and coordination, including identification of a final preferred alternative, appropriate and meaningful mitigation measures, the centering of racial equity considerations, and station area planning.</p>	<p>Sound Transit have coordinated extensively with the city throughout preparation of the WSBLE Draft EIS and Final EIS. This will continue as the project advances through further design and permitting. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
4	<p>The Chinatown/International District (C/ID) and Delridge communities have both experienced historic and continued inequities. While negative impacts may be experienced by communities along the entirety of the West Seattle and Ballard alignments, particular attention should be paid to minimizing, if not avoiding, potential negative impacts in these neighborhoods due to the cumulative effect of the negative impacts they have already experienced. We are encouraged that the City of Seattle has partnered with Sound Transit on the application of the Racial Equity Toolkit (RET) on this project. The Planning Commission would like to see more of the valuable knowledge shared by communities in the RET process reflected in the EIS. The planning process should optimize the hundred-year plus benefits of this transit infrastructure while minimizing any potential disproportionate short- and long-term impacts to the affected communities.</p>	<p>See Appendix G, Environmental Justice, of the Final EIS for updated information on demographics and targeted outreach to low-income populations and communities of color, as well as an updated environmental justice analysis. Updated information on the Racial Equity Toolkit (RET) process is also included. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

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5	<p>Given this combination of equity concerns and history of inequitable outcomes from infrastructure projects, the C/ID must be treated with additional attention and care. The EIS should indicate what measures will be taken to ensure access is maintained to all businesses, services, and public spaces for impacted C/ID communities in the project corridor. Sound Transit and the City of Seattle must work together to not only minimize negative impacts to C/ID communities but also to find new partnerships with communities and repair past harms. Efforts should be made to go beyond the minimum requirements of construction mitigation to ensure a high quality of residential and business life is maintained for those who live, work, and play in the area throughout the construction process.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>
6	<p>Within both the C/ID and Delridge, communities have noted the large number of potential business displacements associated with each alignment option. The Planning Commission is concerned about impacts to social cohesion and the ability of impacted businesses to relocate within their respective neighborhoods. Within the C/ID, the proposed alignments along Fifth Avenue will cause temporary and permanent changes to key businesses and landmarks, such as the Chinatown gate, that could also impact the cultural identity of the neighborhood. The Planning Commission would like to see a discussion included in the EIS of what potential costs the City of Seattle and/or a third party would need to absorb to make the Fourth Avenue alignment more feasible. Even with relocation assistance provided by Sound Transit, the Planning Commission is concerned that businesses displaced or temporarily impacted by construction will not be able to weather the impacts to their income. Even temporary changes to access for community members during construction can have a large impact on the social fabric of the community, particularly when impacted businesses serve as cultural anchors to a community. The planned mitigation measures for businesses impacted by construction in the C/ID and Delridge should be provided in greater detail and additional measures should be considered for high-risk businesses that may not be able to withstand temporary closures or relocation. We provide some suggestions for how to better represent the differential impacts to businesses and the communities they serve in the Housing and Displacement section of this letter below. The Planning Commission recommends expanding the analysis of business displacements in the EIS to include an equity lens. This expanded analysis will provide a more complete picture of how business displacements impact surrounding communities.</p>	<p>In developing alternatives, Sound Transit avoids and minimizes impacts where possible, but some displacement would be unavoidable. Sound Transit will work closely with each displaced business to determine its needs and help it find a new site if the owner chooses to relocate. Please see Section 4.1 Acquisitions, Displacements, and Relocations, of the Final EIS for more information on property acquisition and relocation benefits. See Section 4.4, Social Resources, Community Facilities, and Neighborhoods, for more information on potential impacts to neighborhood cohesion. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

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7	<p>Sound Transit should identify how the project will restore impacted areas and partner with the City and other agencies to repair a long history of harm. The benefits referenced in the DEIS to balance the numerous harmful impacts of such a large-scale infrastructure project are at times vague, such as improved travel experience or improved connections to culturally relevant businesses. Such benefits are inherent in an improved transit system, but they do not explain what specific mitigation measures Sound Transit will take to avoid adding to the history of harm in the C/ID and Delridge. Sound Transit should identify how their approach will create additional co- benefits with the communities impacted by the project.</p>	<p>See response to comment 4 above. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
8	<p>The decision-making process for alignments in the C/ID and Delridge needs to be more transparent and must be responsive to the concerns of the community. The Planning Commission recognizes that Sound Transit is making an effort to conduct additional community engagement in these two neighborhoods. Sound Transit should clarify to what extent the community input will be included in the final decision-making process.</p>	<p>Please see Appendix F, Public Involvement, Tribal Consultation, and Agency Coordination, for updated information on community engagement conducted between the WSBLE Draft EIS and the Final EIS. Please see Section 2.1.1, Sound Transit Board Direction on Modified EIS Alternatives, of the Final EIS for more information on the Sound Transit Board process of identifying preferred alternatives and for information on alternative refinements studied in the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

<p>9</p>	<p>Given that the West Seattle and Ballard Link Extensions will be a key component of Seattle's transportation network for the next 50-100 years, the Planning Commission encourages Sound Transit to include an analysis of the forecasted impact of climate change on the stations and guideways. Estimates show that Seattle will likely experience at least 10 inches of sea-level rise by 2050 and 28 inches by 2100. A map of sea-level rise created by Seattle Public Utilities shows that several of the WSBLE project segments fall into areas of concern for sea level rise, such as the SODO, Duwamish, and Smith Cove segments. The analysis should explore how projections of sea-level rise, changes in precipitation, and other climate shifts could impact the portions of the project located near shorelines and tidal flat fill areas. The DEIS references the Sound Transit 2019 Sustainability Plan as a guiding document for how the project will address sustainability and climate adaptation goals. The Planning Commission appreciates Sound Transit's goals to improve the sustainability of capital projects, from reducing energy and water use at facilities to creating projects that meet LEED Platinum certification standards. The sustainability plan also aims to conduct a Climate Change Vulnerability Assessment for each major system capital expansion project. The DEIS, however, does not indicate whether a climate change assessment was conducted for the WSBLE project or which of the goals, if any, will be achieved through the Sound Transit 3 expansion. Sound Transit and the City of Seattle must work together to build infrastructure with a minimal carbon footprint and a high level of sustainability. Light rail expansion will support the region's goals to improve sustainability by increasing transit use and reducing single occupancy vehicle use, but such a large-scale project must go further to protect against the negative climate impacts created by construction and operation as well. The EIS should clearly demonstrate how Sound Transit will address sustainability and climate resiliency goals for the WSBLE project. Climate change is one of the most pressing issues of our time and the dangers it presents cannot be ignored. Our region cannot afford to complete large-scale projects that do not utilize the latest technology to minimize climate impact and ensure the long-term investment can endure projected changes. The EIS should analyze potential long-term impacts of climate change on the WSBLE project and include what mitigation measures will be taken to make the project resilient against those impacts. The EIS should include a clear summary of the climate considerations explored in the analysis. If the analysis indicates that some alignment alternatives would have different sustainability outcomes, those differences should be included in the alternatives comparison matrix in order to facilitate the consideration of climate concerns in the preferred alternative selection process. The Planning Commission is concerned that the DEIS does not sufficiently recognize the impacts of climate change and environmental health in industrial areas. The future station areas in Interbay and SODO are low in elevation and at high risk of sea level rise. Changing precipitation rates will increase risk of flooding in these areas. The EIS should identify proactive actions to plan for and mitigate those impacts. The station designs should maximize every opportunity to incorporate sustainability,</p>	<p>See Chapter 2, Alternatives Evaluated, of the Final EIS for information on the climate vulnerability assessment completed for the project, as well as information about sustainability efforts. See Appendix L4.6, Air Quality, for information on air quality best management practices. See Section 4.12, Hazardous Materials, for information about contaminated sites that could be affected by development of the West Seattle Link Extension, and how Sound Transit would address contamination on sites acquired for the project. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
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	including green stormwater infrastructure and sustainable materials. The EIS should also identify specific mitigation actions for future stations in industrial areas with contaminated soils.	
10	<p>The future WSBLE stations represent part of a collective vision for growth in Seattle. The Sound Transit 3 project will connect neighborhoods and areas of the city in new ways and will influence how communities interact with the new station areas for decades to come. The city cannot miss this opportunity to help shape excellent urban spaces around each station. Sound Transit and the City of Seattle are already coordinating on station area planning and design to ensure new stations fit cohesively into the existing context of each neighborhood. Part of this coordination must also include how to best support transit-oriented development (TOD) and how to maximize planning for these station areas in the Major Update to the Comprehensive Plan. The Planning Commission appreciates Sound Transit's efforts to develop an Equitable TOD (eTOD) policy that prioritizes affordable housing and community partnerships for the use of surplus property after construction is complete. Sound Transit's commitment to working with communities, particularly underrepresented communities, in the development of remnant parcels and station areas must be elevated and progress toward this goal made transparent. The Planning Commission wants to ensure that the needs of local communities, particularly Black, Indigenous, and people of color (BIPOC) and low-income communities, are not lost in a calculation of highest intensity development opportunities or the most cost-effective selection of parcels. In accordance with their eTOD policy, Sound Transit should be intentional about selection of alignment options that support the potential for coherent future development in station areas, especially in the immediate station context.</p>	<p>Please see the response to CCG3 and CC4.2a in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS regarding the Board's decision process and development near stations. Please see Appendix G, Environmental Justice of the Final EIS for a discussion of study area demographics and impacts to people of color and low-income communities. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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11	<p>Alignment choices that leave behind oddly shaped or scattered parcels that are unsuitable for development have a lasting impact on the urban fabric. The legacy of planning for future development of land impacted by light rail construction is evident in South Seattle where there are still undeveloped remnant parcels in the project corridor. The vacant parcels are an unfortunate use of space in a city struggling to accommodate rapid growth and create an unpleasant environment for those who live, work, play, and commute in the area. Future potential to develop welcoming, resonant, and useful urban spaces post-construction should be part of the evaluation for a preferred alignment. The EIS should analyze how each alternative will impact the urban fabric when compared to the current and future land use maps. Considerations should include the development potential of remnant parcels, expected development of the area based on current zoning, and what alternatives would require changes to zoning to maximize the efficiency of the new stations. To support this process, eTOD opportunities and challenges associated with each station alternative explored in the EIS in section 4.2/3.2.5.2 should be summarized and included in the alternative comparison matrix in the EIS. Inclusion in the matrix will help decision makers keep this factor in mind when balancing the many impacts of each alternative.</p>	<p>Sound Transit considers the ability for remnant parcels to be redeveloped after construction during the design process, and attempts to minimize creation of remnant parcels that cannot be redeveloped. Please see Section 4.2, Land Use, of the Final EIS for more information on potential changes to the existing proposed future land uses in the project area.</p>
12	<p>Of the fourteen planned stations along the various WSBLE alignments, six are either within industrial zones or capture a significant amount of industrial zoned land within their walksheds. Four of these stations - SODO, Smith Cove, Interbay, and Ballard - are within the City's designated manufacturing/industrial centers (M/ICs), the Ballard/Interbay/Northend M/IC (BINMIC) and the Greater Duwamish M/IC. The Planning Commission has historically advocated for protection of industrial and maritime lands and the jobs that are created within those sectors. We recommend that the final preferred alternative minimize or avoid impacts to the long-term viability of Seattle's industrial lands. We are concerned about potential displacement of industrial businesses, impacts to freight corridors, and the resulting short- and long-term economic, transportation, and construction effects that may result from siting future light rail stations in areas currently zoned for industrial uses. We have also already shared our concerns in the Climate Change section of this letter above that the DEIS does not sufficiently recognize the impacts of climate change and environmental health in industrial areas.</p>	<p>Please see Sections 4.2, Land Use and 4.3, Economics, of the Final EIS for more information on conversion of industrial lands and business displacements, respectively. See Section 5.4.3, Land Use, for discussion of cumulative impacts on industrial lands from the West Seattle Link Extension with other reasonably foreseeable future actions. A response to this comment related to stations on the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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13	<p>The Planning Commission has a particular interest in considering changing trends in industrial and manufacturing uses and how that may affect future development in the BINMIC and Greater Duwamish M/IC. We have noticed that the land use analysis in the WSBLE DEIS is based on current zoning in industrial and maritime areas and does not reflect the proposed zoning changes studied in the City of Seattle's Industrial and Maritime Strategy DEIS. We recognize that the proposed Industrial and Maritime Strategy has not been officially adopted at this time, but strongly recommend that Sound Transit consider the potential for land use and resulting ridership changes associated with the various industrial zoning scenarios proposed by the City. The Industrial and Maritime Strategy includes innovative land use strategies for the future of industry that will create significant economic development opportunities near those light rail stations in and adjacent to industrial areas. Sound Transit and the City should coordinate to ensure consistency between job growth and ridership projections in the Industrial and Maritime Strategy DEIS and the WSBLE DEIS. The Planning Commission has consistently encouraged a comprehensive approach to determining a mix of uses in the walksheds around future light rail stations in industrial areas that optimizes the light rail investments without diminishing the functionality and viability of existing industrial and maritime lands. We strongly recommend that the EIS clearly identify how future light rail stations will interact with the surrounding and/or adjacent industrial and maritime lands. This includes identification of land use and transportation impacts around light rail stations in industrial areas. The Planning Commission has significant concern about business displacement in industrial areas, particularly for small businesses and businesses that have limited options for geographic location. The EIS should identify proactive mitigation to prevent economic impacts or business closures. The Planning Commission recognizes the tension between preservation of industrial lands and the growth of 15-minute neighborhoods, sometimes referred to as complete neighborhoods. However, we believe that the WSBLE project and the City's Industrial and Maritime Strategy can work together as part of a larger economic development strategy for Seattle. Sound Transit should coordinate with the City to consider the development potential of light rail stations in industrial areas, including opportunities for equitable transit-oriented development. We request that Sound Transit evaluate the potential for transit-oriented development and associated ridership using both continued industrial zoning designation and zoning that anticipates increases in commercial and residential uses. The Planning Commission is concerned that the EIS alternatives directly impact developable industrial land in some specific locations. For example, one alternative in South Interbay bisects industrial land, preventing a significant opportunity for future development. Sound Transit and the City should coordinate with the State of Washington in redevelopment of the twenty-five-acre Seattle Armory property, currently occupied by the Washington National Guard, which is adjacent to the light rail alignment in Interbay.</p>	<p>Since publication of the WSBLE Draft EIS, zoning changes based on the Industrial and Maritime Strategy have been adopted and Section 4.2, Land Use, has been updated. Section 4.2 also discusses transit-orientated development potential around stations. For the West Seattle Link Extension, the SODO Station and the Delridge Station (for some alternatives) would be within the manufacturing/industrial zone. A light rail station already exists at the SODO Station location.</p> <p>Sound Transit will continue to coordinate with the city regarding planned changes in land use and zoning. Please see Section 4.3, Economics, of the Final EIS for more information on potential impacts to businesses during operations and construction as well as proposed mitigation. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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14	<p>The WSBLE project is part of Sound Transit's regional system that will allow workers to access jobs from neighborhoods across the city and from outside of Seattle. One anticipated impact of the future stations in industrial areas is more pedestrians and bike traffic in areas with large streets and heavy truck traffic. The DEIS states that increased access to transit from the WSBLE project will result in reduced automobile use, increasing efficiency on freight routes. The Planning Commission recommends a more robust analysis that recognizes the need for balanced use of arterial streets around stations in industrial areas for freight mobility and multi-modal transportation for workers connecting to job centers. The EIS should identify appropriate mitigation measures to ensure optimized access and safe travel options for both workers and other users.</p>	<p>Please see the following sections of Chapter 3, Transportation for more information on potential impacts to roadways in industrial areas and freight mobility during operations and construction, as well as proposed mitigation: Sections 3.5, Arterial and Street Operations; 3.7, Nonmotorized Facilities; 3.8, Safety; and 3.10, Freight Mobility and Access. Also see Section 4.3, Economics, for information on impacts to businesses in industrial areas during operation and construction, as well as regional economic impacts. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
15	<p>The WSBLE project presents a key opportunity to ensure that people that live, work, or play in Seattle have safe, affordable, reliable travel alternatives. WSBLE project planning must place significant emphasis on convenience and usability of the system, especially making sure people can safely access and use the stations. The EIS should clearly identify how each alternative would affect transit access and efficiency, especially for transit-dependent populations and BIPOC communities. We recognize that the future light rail extensions will replace or restructure existing bus routes and change access to the 15-minute transit network. The EIS analysis should identify transit re-routing plans to maximize efficient commuting to job centers. Sound Transit and King County Metro should coordinate transit restructuring and work with the City to ensure coverage of most of Seattle within a short walk of frequent transit. Network restructuring should achieve better levels of transit access for most of the city than we have now. Ongoing data collection after completion of the WSBLE project can be used to monitor and adapt transit changes to re-route bus resources more effectively.</p>	<p>Please see responses to CC3a and CC3b in Table 7-1. Please see Appendix G, Environmental Justice, for more information on changes in transit access and travel times for low-income populations and communities of color. Proposed changes in transit routes that are assumed in the transportation analysis are provided in Attachment N.1C of Appendix N.1, Transportation Technical Report. Changes to transit routes were developed in coordination with King County Metro and the City of Seattle, and these agencies will continue to coordinate as the project advances. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
16	<p>The Planning Commission recommends evaluating transit integration and non-motorized (bike/pedestrian) access at each of the proposed station locations. The WSBLE project must link seamlessly and efficiently into a robust multi-modal network. The EIS should also consider the potential increase in rideshare use to access light rail stations. This analysis should be used to incorporate rideshare access and loading zones into station designs.</p>	<p>See response to comment 15 above. Station mode of access, including rideshares, is based on regional travel demand models. Please see Section 3, Transit, of Appendix N1, Transportation Technical Report for more information on mode of access by station. This information was used to inform station design. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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17	<p>The WSBLE project will create major disruptions within the neighborhoods where new guideways and stations are built. The Planning Commission has significant concerns about the potential for displacement within the C/ID and Delridge neighborhoods along the project corridor. We have previously requested that Sound Transit conduct a rigorous analysis to identify ways to minimize, if not avoid, commercial and residential displacement resulting from guideway and station construction. We also requested an assessment of the potential for affected property owners to relocate within the same area. Sound Transit acknowledges within the DEIS that some homes and businesses will be displaced, and that relocation support will be provided to those who must move to accommodate the project. However, the DEIS does not present the full picture of potential displacement. The existing analysis leaves out potential impacts of indirect displacement and the disruption to social cohesion when residents and culturally significant businesses are forced to move. The EIS could also do more to explore the potential for property owners to relocate within the neighborhood and offer mitigation opportunities to maximize this potential. Major infrastructure investments such as light rail are known to be a factor in the indirect displacement of low-income and BIPOC communities. In addition to the assessment of direct displacements provided in the DEIS, Sound Transit should work with the City of Seattle to assess the potential for indirect displacement within each project segment and to discuss mitigation strategies to minimize displacement specific to each location and adjacent communities. The assessment and mitigation strategies could be informed by lessons learned from Sound Transit 1 and Sound Transit 2 and the communities impacted by those portions of the light rail system.</p>	<p>Please see Section 4.4, Social Resources, Community Facilities, and Neighborhoods, of the Final EIS for more information on potential direct and indirect impacts on neighborhood cohesion from displacements. See Appendix L4.1, Acquisitions, Displacements, and Relocations, for updated information on relocation opportunities. See Appendix G, Environmental Justice, for discussion of impacts to low-income populations and communities of color. Please also see response to CC4.1c in Table 7-1 in Chapter 7, Comment Summary, of the Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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18	<p>The DEIS includes a high-level look at the number of businesses and residences that will be displaced by each alternative, but the numbers included in the alternatives comparison charts oversimplify the impacts. Such a high-level summary does not fully convey the impact of displacement on financially vulnerable households and businesses and the overall impact of many displacements to the social fabric of a tightly knit community. Although it is challenging to include significant detail in a comparison matrix, the matrix will likely be relied upon to help decision makers balance the many complicated impacts of each alternative. Displacement should be included in the matrix in a more nuanced way, perhaps through an indexed score or impact scale, that could take into account additional details such as whether residential displacements include affordable housing units or when potentially displaced businesses are identified as culturally significant by the community. These additional details should be broken down clearly for each alternative and highlighted in the summary matrix that compares impacts across alternatives to ensure the information is considered in the final alignment selection. In Section 4.2, the DEIS provides more detail on the maritime businesses that may be impacted by the project for the Duwamish segment of the project, but the same level of detail is not provided for businesses in other segments. The analysis of business displacements in the C/ID and Delridge should be expanded to identify impacted businesses by name and assess their relative ability to withstand relocation. Some businesses may not be able to successfully adapt to a new space or may not be able to maintain their customer base even if only relocated a few blocks away from their original location. Relocation outside of the neighborhood will simply not work for most businesses in the C/ID and even short-term closures or access issues can disrupt vital community support networks. Women or BIPOC-owned small businesses and cultural anchors that may be displaced by the alternatives should also be highlighted.</p>	<p>Information presented in summary tables is intended to provide a high-level overview of differentiating impacts within a segment. These tables are not evaluation matrices. Information about potentially displaced culturally significant businesses, including those identified through public input during external engagement efforts, and income-restricted housing, is provided in Section 4.4, Social Resources, Community Facilities, and Neighborhood. All properties meeting this criteria in the study area are identified in Appendix L4.4, Social Resources. Additional detail is provided in Section 4.3, Economics, for maritime businesses that are water-dependent because of the highly limited amount of property in Seattle with industrial waterfront access for relocation of these businesses, when compared to land available for other types of businesses. Information on individual businesses is constantly changing and given the similar impacts between alternatives within segments and the location of the project within an urban area, additional detail on other types of businesses is not provided. Sound Transit would work with each business individually to understand their specific needs and work with them to identify an acceptable relocation site that would allow them to serve the same customers if that is what the business desires. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
19	<p>The RET includes a more detailed exploration of community impacts for the C/ID and touches on business displacement. The RET helpfully tries to compare the number of businesses displaced by the alternatives with the amount of new commercial space that could be built after the project is complete. Unfortunately, the analysis compares the number of businesses lost to the potential square footage of new commercial space, which is an apples to oranges comparison that does not convey whether the space added will be sufficient or compatible to replace the lost space. The EIS should include a similar analysis that compares the number of businesses lost with the number and types of businesses that could be accommodated by new development. The analysis should also include what measures are in place to ensure new commercial spaces meet the needs of the impacted communities.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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20	<p>The WSBLE project includes guideways and station platforms of a significant height that present visual and quality of life impacts to the communities these alignments will traverse. Community members raised their concerns with these potential impacts during consideration of which alternatives to include in the DEIS. The Planning Commission's DEIS scoping letter recommended that Sound Transit clearly identify visual impacts of all elevated guideways and stations using the latest and best visualization technology and methods, including photorealistic 3-D imagery. While we appreciate inclusion of visual representations in the DEIS, the existing images provided by Sound Transit do not sufficiently demonstrate the anticipated cumulative effects of the various elevated guideways and stations. Additional visualizations from a greater number of viewpoints and especially from a ground-level pedestrian perspective are essential to understanding the potential impacts of these alternatives. The Planning Commission also recommends that Sound Transit clearly identify the criteria used for evaluating the level of visual impacts. We are concerned that community members have not been involved in determining or assessing the documented visual impacts. The various communities along the DEIS alternatives should be involved in deciding what they consider the value of their built environment and to what degree the added light rail infrastructure would affect it.</p>	<p>Please see responses to CC2e and CC4.5a in Table 7-1. All visual simulations included in the WSBLE Draft EIS and Final EIS visual analysis are from a pedestrian perspective. New simulations for additional viewpoints and modified alternatives have been completed for the West Seattle Link Extension and are included in Appendix N.2 of the Final EIS. Simulations aid in the analysis, but are not necessary to identify adverse impacts. This appendix also includes a detailed analysis for each alternative and describes the method and criteria used. Public input regarding visual impacts was received during both early scoping and National Environmental Policy Act scoping, as well as through WSBLE Draft EIS comments. Feedback received during WSBLE Draft EIS comments was considered in updating the analysis for the Final EIS. In addition, Sound Transit has developed 3-D models of selected areas along the corridor for use in coordinating with agency partners and the public. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

April 28, 2022



VIA ELECTRONIC MAIL

WSBLE Draft Environmental Impact Statement Comments
c/o Lauren Swift
Sound Transit
401 South Jackson Street
Seattle, Washington 98104
WSBLEDEIScomments@soundtransit.org

Re: West Seattle Ballard Link Extension Draft Environmental Impact Statement (“DEIS”)

Dear Ms. Swift:

Seattle Public Schools (“SPS”) appreciates the opportunity to review and provide comment on the Draft Environmental Impact Statement (“DEIS”) issued recently by Sound Transit as lead agency under the State Environmental Policy Act (“SEPA”) and the United States Department of Transportation Federal Transit Administration as lead agency under the National Environmental Policy Act (“NEPA”).

SPS looks forward to the expansion of light rail in Seattle with the West Seattle Ballard Link Extension project (“WSBLE Project”). That said, this progress comes with potential for significant adverse impacts to the City generally and, for SPS, the potential for significant adverse impacts to the operation of public schools, SPS headquarters, and Memorial Stadium. Unfortunately, the WSBLE Project described in the DEIS is in its infancy; without defined construction locations, plans, sequencing or designs, it is impossible to characterize the impacts of WSBLE. Accordingly, with the WSBLE Project as proposed, the DEIS cannot reasonably evaluate the potential significant adverse environmental impacts of the proposal and the mitigation for those impacts. Additional environmental analysis is needed.

Before we address our specific comments, we wanted to describe the potential SPS properties and public schools that will be affected by the Project.

John Stanford Center for Educational Excellence (“Stanford Center”)

The Stanford Center is located at 2445 3rd Avenue South in the SoDo neighborhood of Seattle (King County Parcel No. 766620-5235). The Stanford Center serves as the headquarters and the seat of government for Seattle Public Schools. The Stanford Center hosts School Board meetings, other public meetings, and serves as the SPS enrollment hub. In addition, the Stanford Center provides areas dedicated to, *inter alia*, warehousing (for its mailroom, plumbing and piping, shipping and receiving), food processing, lecturing, light industrial (for its data center, electrical shop, computer repair, and archives), publishing, training, and office functions. The SODO segment has the potential to create significant transportation related impacts, noise impacts, vibration

impacts, and dust impacts during construction, which will make it difficult for the public to utilize the Stanford Center during this time. The impacts to the Stanford Center during construction must be fully analyzed and mitigated.

Memorial Stadium

In Preferred Alternative DT-1, the right of way for the tunnel appears to go right under the stadium, approximately 75' below the surface. There is little discussion of the methods for drilling and tunneling, and whether such work would require the closure of Memorial Stadium for a period of time. As this is the main high school arena for SPS, the proposed tunnel under Memorial Stadium in Preferred Alternative DT-1 has the potential to cause a significant impact to the recreational opportunities in the City.

In addition, the ST3 tunnel will impose limitations on the size, location and weight of future structures above, which could limit redevelopment opportunities for Memorial Stadium. BTA V, which was recently overwhelmingly approved by the voters of Seattle, provides funds for the renovation or possible replacement of Memorial Stadium. The proposed work on Memorial Stadium is not addressed, and the potential impacts to a renovated or replaced stadium are not analyzed in the DEIS.

The parking lot area near Memorial Stadium has also long been described as a potential future site for a new high school. The Preferred Alternative DT-1 proposes the tunnel to be located below this parking lot. The DEIS does not disclose the potential for the Memorial Stadium parking lot to be converted to high school, and what the structural limitations for above-grade structures over the tunnel would be. Without further information or analysis, it appears that the Preferred Alternative could preclude future development of a high school downtown.

Public Schools located in West Seattle, Ballard, and Magnolia

There are several public schools located in West Seattle, Ballard, and Magnolia that may be affected by the WSBLE project. Specifically, those schools include the following Cooper Pathfinder, Fairmount Park Elementary, Gatewood Elementary, Genesee Hill Elementary, Ballard High School, Jane Addams Middle School, and Magnolia Elementary.

Of these schools, Cooper Pathfinder is located the closest to a proposed station and rail line (the Delridge/Dakota station). While the school is shown on one map, the DEIS fails to disclose the potential impacts to the school. The main access to Cooper is dependent on Delridge Way SW. From both a construction and operational standpoint, there is potential for significantly diminished access to the school for students, increased bike and pedestrian safety issues, and a high potential for noise, vibration, and dust impacts during construction.

There is insufficient information or analysis regarding the potential for noise, EMF, vibration, dust, transportation access, and pedestrian and bike safety to public school students. And, there is not sufficient information about the means and methods of

construction, construction routes, road closures, to either analyze these impacts or develop appropriate mitigation to address the impacts.

Due to these effects, we ask Sound Transit and FTA to further explore the Alternatives, study additional alternatives, and issue a supplemental DEIS and commit to additional site-specific environmental review as part of a phased review. Our specific comments on the DEIS are as follows:

1. Inadequate Information on Which to Base Analysis

The DEIS does not adequately describe the impacts, both temporary and permanent, to our Property or the neighborhood in which it is located, including existing and future land uses. This is due to the fact that the DEIS is based on an inadequate set of construction plans, which makes it impossible to characterize future impacts. We understand that Sound Transit has developed, and is continuing to develop, more specific construction plans and guidelines. This work would help to characterize SEPA impacts, but this information has not been included in the DEIS. The plans on which the DEIS is based are at less than 5% completion, which means that most key elements of the project are not yet defined, such as:

- Horizontal and vertical control for each alignment alternative;
- Actual construction methodology, in order to determine noise, vibration, and earth movement impacts;
- Scope of above-grade construction limits;
- Complete street closure locations and durations;
- Designation all or portions of right of way for pedestrian use;
- Location and duration of construction staging;
- Loading limitations over the downtown tunnel that could limit future development; and
- The duration and sequencing of construction activities, in order to determine the cumulative impacts of construction work on the urban environment.

Under WAC 197-11-784 a proposal “exists at that stage in the development of an action when an agency is presented with an application, or has a goal and is actively preparing to make a decision on one or more alternative means of accomplishing that goal, *and the environmental effects can be meaningfully evaluated.*” (Emphasis supplied.) Due to the lack of information regarding the WSBLE project, the DEIS cannot be the environmental document on which future project decisions can be made. Nor is it possible or appropriate to attempt to remedy these

shortcomings in a final EIS, since that would deprive the public of the opportunity to review and comment on a legitimate impact evaluation under SEPA.

2. Sound Transit should conduct Phased Review under SEPA for WSBLE.

Phased review under SEPA is required for WSBLE, since environmental impacts cannot be meaningfully evaluated – and authentic mitigation plans prepared – until plans are more fully developed. Due to the infancy of the project plans, the desire to defer actual construction decisions to some future design-build contractor and the lack of information about most impacts, it is necessary to phase this SEPA review so that review of actual on-the-ground impacts can occur in the future at a time when there is adequate information to support that review. The current Draft EIS is not a project action EIS, since the actual project is hardly defined at all; it is more in the nature of an early programmatic EIS, which anticipates the need for additional future SEPA review. While it may be appropriate to make large-scale decisions about corridor alignment through this EIS process, future decisions about construction methodology, street closures, final station entrance locations and their design, should require future SEPA review when facts and information are available to allow that review to occur adequately.

3. Inadequate Analysis of Construction Impacts

As noted above, several SPS properties and public schools have the potential to be significantly impacted by the WSBLE construction. The DEIS fails to adequately analyze the noise, vibration, and dust impacts from the project. The DEIS also fails to adequately discuss impacts and mitigation for potential earth movement during construction. This is especially concerning to SPS due to the Preferred Alternative DT-1's proposed downtown tunnel directly under Memorial Stadium and its parking lot.

Compounding the lack of analysis, the DEIS fails to identify mitigation to reduce the severity of the construction impacts. Many impacts, including important noise, vibration, and earth movement impacts, will vary based on method of construction. The DEIS should include performance standards and specific measures to meet them to ensure that the construction impacts of the project are fully mitigated.

4. Inadequate Analysis of Transportation and Parking Impacts

Full information on the timing, duration and location of possible street closures associated with the project is not provided. While some street closures are generally discussed, above-grade construction associated with the ST3 tunnel, the stations, and the rail lines necessarily involve identified station locations as well as presently unidentified other construction staging areas. And closures will have the effect of re-routing traffic to other rights-of-way, further congesting those locations. The DEIS does not attempt to evaluate these impacts, nor can they reasonably be evaluated until a more definitive street closure plan can be developed in the future. This is particularly concerning for our neighborhood public schools, as it could make getting to school both significantly more difficult for all modes of transportation and potentially dangerous if students are walking or biking.

5. Project mitigation decisions are being deferred.

It appears to be Sound Transit's plan to roll out mitigation proposals gradually over several years. Mitigation planning work remains ongoing and we expect to see a more serious mitigation plan in the months ahead – though some time subsequent to the close of the public comment period on the Draft EIS. Other mitigation plans will need to await the day when elements of the project are actually defined, which may not occur until well after the SEPA process is complete.

SEPA requires mitigation measures to be identified now and the public should have a full opportunity to comment on them in SEPA review. Mitigation measures must be binding on the design-build contractors for the project. The Sound Transit Board must be able to review and assess these mitigation measures prior to rendering a final decision on the project.

Conclusion

The DEIS fails to identify an adequate range of alternatives and to adequately disclose the impacts of the project throughout City or to identify adequate mitigation. While SPS has particular and unique impacts due to the presence of public schools near station and line construction, and the direct and indirect construction impacts to the Stanford Center and Memorial Stadium, SPS shares the concerns raised by many of the Seattle Center stakeholders located nearby. SPS echoes the Seattle Center Foundation's request for a new station location and route alignment alternatives at the Seattle Center station, and additional study of impacts, including but not limited to construction, transportation, parking and land use, public utilities, and recreational impacts, and identification of mitigation for those impacts.

SPS further suggests that Sound Transit commit to phased environmental review to ensure that the real impacts of the WSBL project are identified and mitigated.

The DEIS has not adequately analyzed the significant adverse environmental impacts associated

Thank you for your consideration of these comments.

Sincerely,



Rob Gannon
Deputy Superintendent
Seattle Public Schools

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504756 - Seattle Public Schools Draft EIS Comment

#	Comments	Responses
1	<p>SPS looks forward to the expansion of light rail in Seattle with the West Seattle Ballard Link Extension project (“WSBLE Project”). That said, this progress comes with potential for significant adverse impacts to the City generally and, for SPS, the potential for significant adverse impacts to the operation of public schools, SPS headquarters, and Memorial Stadium. Unfortunately, the WSBLE Project described in the DEIS is in its infancy; without defined construction locations, plans, sequencing or designs, it is impossible to characterize the impacts of WSBLE. Accordingly, with the WSBLE Project as proposed, the DEIS cannot reasonably evaluate the potential significant adverse environmental impacts of the proposal and the mitigation for those impacts.</p> <p>Additional environmental analysis is needed.</p>	<p>Thank you for expressing support for the Project. Please see responses to CCG1, CC2a, and CC2b in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS.</p>
2	<p>John Stanford Center for Educational Excellence (“Stanford Center”) The Stanford Center is located at 2445 3rd Avenue South in the SoDo neighborhood of Seattle (King County Parcel No. 766620-5235). The Stanford Center serves as the headquarters and the seat of government for Seattle Public Schools. The Stanford Center hosts School Board meetings, other public meetings, and serves as the SPS enrollment hub. In addition, the Stanford Center provides areas dedicated to, inter alia, warehousing (for its mailroom, plumbing and piping, shipping and receiving), food processing, lecturing, light industrial (for its data center, electrical shop, computer repair, and archives), publishing, training, and office functions. The SODO segment has the potential to create significant transportation related impacts, noise impacts, vibration impacts, and dust impacts during construction, which will make it difficult for the public to utilize the Stanford Center during this time. The impacts to the Stanford Center during construction must be fully analyzed and mitigated.</p>	<p>Please see Section 4.14, Public Services, Safety, and Security, of the Final EIS for more information on the John Stanford Center for Educational Excellence.</p> <p>Information regarding potential impacts to this facility during construction has been added to the Final EIS.</p>
3	<p>Memorial Stadium In Preferred Alternative DT-1, the right of way for the tunnel appears to go right under the stadium, approximately 75’ below the surface. There is little discussion of the methods for drilling and tunneling, and whether such work would require the closure of Memorial Stadium for a period of time. As this is the main high school arena for SPS, the proposed tunnel under Memorial Stadium in Preferred Alternative DT-1 has the potential to cause a significant impact to the recreational opportunities in the City. In addition, the ST3 tunnel will impose limitations on the size, location and weight of future structures above, which could limit redevelopment opportunities for Memorial Stadium. BTA V, which was recently overwhelmingly approved by the voters of Seattle, provides funds for the renovation or possible replacement of Memorial Stadium. The proposed work on Memorial Stadium is not addressed, and the potential impacts to a renovated or replaced stadium are not analyzed in the DEIS. The parking lot area near Memorial Stadium has also long been described as a potential future site for a new high school. The Preferred Alternative DT-1 proposes the tunnel to be located below this parking lot. The DEIS does not disclose the potential for the Memorial Stadium parking lot to be converted to high school, and what the structural limitations for above-grade structures over the tunnel would be. Without further information or analysis, it appears that the Preferred Alternative could preclude future development of a high school downtown.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
4	<p>Of these schools, Cooper Pathfinder is located the closest to a proposed station and rail line (the Delridge/Dakota station). While the school is shown on one map, the DEIS fails to disclose the potential impacts to the school. The main access to Cooper is dependent on Delridge Way SW. From both a construction and operational standpoint, there is potential for significantly diminished access to the school for students, increased bike and pedestrian safety issues, and a high potential for noise, vibration, and dust impacts during construction.</p>	<p>Resources identified in the affected environment section of the Final EIS are only discussed in the environmental impacts section where there is potential for impacts to the resource. Resources in the study area that would not be impacted by the project are only included in the affected environment section. Please see Section 4.14, Public Services, Safety, and Security of the Final EIS for more information on the Pathfinder K-8 School.</p>
5	<p>Inadequate Information on Which to Base Analysis The DEIS does not adequately describe the impacts, both temporary and permanent, to our Property or the neighborhood in which it is located, including existing and future land uses. This is due to the fact that the DEIS is based on an inadequate set of construction plans, which makes it impossible to characterize future impacts. We understand that Sound Transit has developed, and is continuing to develop, more specific construction plans and guidelines. This work would help to characterize SEPA impacts, but this information has not been included in the DEIS. The plans on which the DEIS is based are at less than 5% completion, which means that most key elements of the project are not yet defined, such as:</p> <ul style="list-style-type: none"> • Horizontal and vertical control for each alignment alternative; • Actual construction methodology, in order to determine noise, vibration, and earth movement impacts; • Scope of above-grade construction limits; • Complete street closure locations and durations; • Designation all or portions of right of way for pedestrian use; • Location and duration of construction staging; • Loading limitations over the downtown tunnel that could limit future development; and • The duration and sequencing of construction activities, in order to determine the cumulative impacts of construction work on the urban environment. <p>Under WAC 197-11-784 a proposal “exists at that stage in the development of an action when an agency is presented with an application, or has a goal and is actively preparing to make a decision on one or more alternative means of accomplishing that goal, and the environmental effects can be meaningfully evaluated.” (Emphasis supplied.) Due to the lack of information regarding the WSBLE project, the DEIS cannot be the environmental document on which future project decisions can be made. Nor is it possible or appropriate to attempt to remedy these shortcomings in a final EIS, since that would deprive the public of the opportunity to review and comment on a legitimate impact evaluation under SEPA.</p>	<p>Please see responses to CCG1, CC2b and CC3c in Table 7-1.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
6	<p>Sound Transit should conduct Phased Review under SEPA for WSBLE. Phased review under SEPA is required for WSBLE, since environmental impacts cannot be meaningfully evaluated – and authentic mitigation plans prepared – until plans are more fully developed. Due to the infancy of the project plans, the desire to defer actual construction decisions to some future design-build contractor and the lack of information about most impacts, it is necessary to phase this SEPA review so that review of actual on-the-ground impacts can occur in the future at a time when there is adequate information to support that review. The current Draft EIS is not a project action EIS, since the actual project is hardly defined at all; it is more in the nature of an early programmatic EIS, which anticipates the need for additional future SEPA review. While it may be appropriate to make large-scale decisions about corridor alignment through this EIS process, future decisions about construction methodology, street closures, final station entrance locations and their design, should require future SEPA review when facts and information are available to allow that review to occur adequately.</p>	<p>Please see response to CCG1 in Table 7-1.</p>
7	<p>Inadequate Analysis of Construction Impacts As noted above, several SPS properties and public schools have the potential to be significantly impacted by the WSBLE construction. The DEIS fails to adequately analyze the noise, vibration, and dust impacts from the project. The DEIS also fails to adequately discuss impacts and mitigation for potential earth movement during construction.</p> <p>This is especially concerning to SPS due to the Preferred Alternative DT-1's proposed downtown tunnel directly under Memorial Stadium and its parking lot. Compounding the lack of analysis, the DEIS fails to identify mitigation to reduce the severity of the construction impacts. Many impacts, including important noise, vibration, and earth movement impacts, will vary based on method of construction. The DEIS should include performance standards and specific measures to meet them to ensure that the construction impacts of the project are fully mitigated.</p>	<p>Please see responses to CC2a and CC4.7a in Table 7-1. Please also see Sections 4.6, Air Quality, of the Final EIS for more information on impacts and mitigation for dust. A response to this comment related to Memorial Stadium will be provided as part of the environmental review process for the Ballard Link Extension.</p>
8	<p>Inadequate Analysis of Transportation and Parking Impacts Full information on the timing, duration and location of possible street closures associated with the project is not provided. While some street closures are generally discussed, above-grade construction associated with the ST3 tunnel, the stations, and the rail lines necessarily involve identified station locations as well as presently unidentified other construction staging areas. And closures will have the effect of re-routing traffic to other rights-of-way, further congesting those locations. The DEIS does not attempt to evaluate these impacts, nor can they reasonably be evaluated until a more definitive street closure plan can be developed in the future. This is particularly concerning for our neighborhood public schools, as it could make getting to school both significantly more difficult for all modes of transportation and potentially dangerous if students are walking or biking.</p>	<p>Please see response to CC3c in Table 7-1.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
9	<p>Project mitigation decisions are being deferred. It appears to be Sound Transit's plan to roll out mitigation proposals gradually over several years. Mitigation planning work remains ongoing and we expect to see a more serious mitigation plan in the months ahead – though some time subsequent to the close of the public comment period on the Draft EIS. Other mitigation plans will need to await the day when elements of the project are actually defined, which may not occur until well after the SEPA process is complete. SEPA requires mitigation measures to be identified now and the public should have a full opportunity to comment on them in SEPA review. Mitigation measures must be binding on the design-build contractors for the project. The Sound Transit Board must be able to review and assess these mitigation measures prior to rendering a final decision on the project.</p>	<p>Please see response to CC2a in Table 7-1.</p>
10	<p>The DEIS fails to identify an adequate range of alternatives and to adequately disclose the impacts of the project throughout City or to identify adequate mitigation.</p>	<p>Please see responses to CCG1 and CC2a in Table 7-1. 40 Code of Federal Regulations (CFR) 1502.14 requires agencies to evaluate reasonable alternatives to a proposed action, discuss each alternative considered in detail, and limit consideration to a reasonable number of alternatives.</p> <p>Please see Section 2.5, Alternatives Development and Scoping of the Final EIS for additional information on the alternatives development process for the Project which resulted in evaluation of a reasonable range of alternatives consistent with 40 CFR 1502.14.</p>
11	<p>While SPS has particular and unique impacts due to the presence of public schools near station and line construction, and the direct and indirect construction impacts to the Stanford Center and Memorial Stadium, SPS shares the concerns raised by many of the Seattle Center stakeholders located nearby. SPS echoes the Seattle Center Foundation's request for a new station location and route alignment alternatives at the Seattle Center station, and additional study of impacts, including but not limited to construction, transportation, parking and land use, public utilities, and recreational impacts, and identification of mitigation for those impacts.</p>	<p>A response to this comment will be provided as part of the environmental review process for the Ballard Link Extension.</p>

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City of Seattle
Seattle Transit Advisory Board

TAB Members:

Amin Amos
Xander Barbar
Keiko Budech
Art Kuniyuki
Andrew Martin
Sandro Pani
Erin Tighe
Emily Walton Percival*
Barbara Wright
Michelle Zeidman*

Date: April 27, 2022
To: Sound Transit Board
Subject: West Seattle and Ballard Link Extensions (WSBLE) Project

*The Seattle Transit Advisory Board shall **advise** the City Council, the Mayor, and all departments and offices of the City **on matters related to transit** and the possible and actual impact of actions taken by the City upon all forms of public transportation.*

At our March 23, 2022, City of Seattle **Transit Advisory Board** (TAB) meeting, SDOT staff member Colin Drake briefed the TAB on the latest information about the WSBLE Project. After Colin’s presentation, TAB members elected to convey our comments and thoughts about these plans.

We are thrilled that WSBLE will bring high-capacity transit to new areas of the Puget Sound, a long-awaited connection. The TAB would like to ensure that climate, equity, and safety goals are at the forefront of this project. All decisions should be made under the umbrella of Sound Transit’s Racial Equity Toolkit, and make sure that all plans have not overlooked any communities that may not have been able to fully participate in the planning and implementation for the WSBLE Project.

*The Board shall be provided the opportunity to comment and make recommendations on City policies, plans, and projects as they may relate to **transit capital improvements, transit mobility, and transit operations** throughout the City...*

Before detailing our specific station recommendations, we wish to emphasize that when choosing the final alignment, the Project should primarily focus on alignments and design that maximize ridership; well-sited and abundant station entrances as well as sufficient vertical conveyances are integral to an experience that will attract riders.

*The Board shall help facilitate City policies, plans, and projects that support local and region-wide transit mobility efforts, to help **ensure a functioning and coordinated transit system** throughout the City and region.*

There are a variety of stations being planned, and the TAB would like to narrow its focus to the ones listed below:

*The Board shall function as the **public oversight committee of revenues collected under Seattle Transportation Benefit District (STBD) Proposition 1**, as described in Resolution 12 of the STBD...*

SODO/Chinatown International District Station: the TAB agrees with community, business owners, visitors, transit riders, and residents that any decision made must not repeat the inequities and displacement that this community has experienced with major infrastructure projects such as the recent upzoning and the building of the former Kingdome. We support a plan that will not cause undue traffic, street closures, displacement, and surface construction, to the members of the CID. We also believe that in the long run the CID will benefit from a station that affords easy access to the neighborhood. The CID will also be a major transfer point, and it is critical for Sound Transit to center CID community voices while choosing the best alternative. Therefore, the **TAB Supports:** the CID-1a alternative, but also supports the supporters of a “cut and cover”, “true shallow” version which can result in cost savings and faster transfers between the existing transit routes already in place. We also hope Sound Transit will mitigate the displacement of large numbers of residents and businesses, if this alternative is chosen. In SODO, the **TAB Supports:** the preferred at-grade alternative, SODO-1a, as the at-grade alternative to minimize connection distances.

The Board shall make an annual report to the City Council on the status of its work program and the achievement of its goals.

City Council Resolution 31572

**abstain from correspondence as employees of Sound Transit*

Delridge: the TAB envisions having the transit entrances and bus zones in close proximity to each other. The placing of distance between these two items is inequitable for those who are elderly, mobility challenged, differently

abled, families with children, or anyone or group where walking distances would serve as a barrier to service. Therefore, the **TAB Supports**: either DEL-5 or DEL-6, while neither is ideal, we support plans that don't impact residents and neighborhoods, as DEL1a/b-DEL-4 would, and for connectivity to the West Seattle Junction, we support the WSL-5's tunnel option and believe it will connect best to other West Seattle stations – while preparing well for any future extensions in later phases.

Downtown Segment (Midtown, Westlake, Denny, South Lake Union, Seattle Center/Uptown): the **TAB Supports**: DT-1 as our only choice, unless a DT-3 plan is created as an improvement on DT-2. The cost savings alternative to consolidate the SLU and Denny stations drastically moves the station to Dexter Avenue, far from the center of the neighborhood – the TAB recommends considering whether the significant cost savings is worth it (~\$575 million) vs long-term reduced ridership and mobility access (~ -10,000 riders). In Uptown, major event crowds make it of paramount importance that the station be sited as close to Seattle Center as possible. Siting the station away from Republican Street would require additional mitigation to ensure pedestrian safety.

Ballard Station: while the TAB appreciates both the 14th Ave NW and 15th Ave NW plans, the **TAB Supports**: IBB-2b, a tunnel station located on 15th Ave NW, as it would be a better fit for transit users, the community, business owners, residents, and future growth planning. If a 20th Ave NW option is revisited, the TAB would support this option over any DEIS alternative, to bring transit users into the central portion of Ballard, and we hope it will be reconsidered.

Alaska Junction Station: the **TAB Supports**: the WSJ-5, Medium Tunnel 41st Avenue Station Alternative. We would like to minimize impacts on the West Seattle community, so elevated structures are not supported, and minimizing displacements of residents (153), businesses (15), and employees (90) is crucial, along with controlling the cost of the project (\$1.1B).

These critical stations will serve transit riders well into the future. Do not put cost savings before safety, walk and bike connections, and other critical infrastructure decisions that will make these stations well used for generations.

We urge you to deliver projects on time, while centering communities where need is greatest in the decision-making process. It is a fine balance, but construction will only get more expensive, and promised voter-approved timelines are important not only for community trust, but for our regional mobility, climate impacts, and equitable access to resources that allow all of us to thrive.

Thank you for the opportunity to comment and all you do to keep people moving.

The City of Seattle Transit Advisory Board

Appendix O. Draft EIS Comment Summary and Response to Comments

Communication ID: 504774 - City of Seattle's Transit Advisory Board (TAB) Draft EIS Comment

#	Comments	Responses
1	<p>We are thrilled that WSBLE will bring high-capacity transit to new areas of the Puget Sound, a long-awaited connection. The TAB would like to ensure that climate, equity, and safety goals are at the forefront of this project. All decisions should be made under the umbrella of Sound Transit's Racial Equity Toolkit, and make sure that all plans have not overlooked any communities that may not have been able to fully participate in the planning and implementation for the WSBLE Project.</p> <p>Before detailing our specific station recommendations, we wish to emphasize that when choosing the final alignment, the Project should primarily focus on alignments and design that maximize ridership; well-sited and abundant station entrances as well as sufficient vertical conveyances are integral to an experience that will attract riders.</p>	<p>Please see response to CCG3 in Table 7-1 in Chapter 7, Comment Summary, of the West Seattle Link Extension Final EIS. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
2	<p>SODO/Chinatown International District Station: the TAB agrees with community, business owners, visitors, transit riders, and residents that any decision made must not repeat the inequities and displacement that this community has experienced with major infrastructure projects such as the recent upzoning and the building of the former Kingdome. We support a plan that will not cause undue traffic, street closures, displacement, and surface construction, to the members of the CID. We also believe that in the long run the CID will benefit from a station that affords easy access to the neighborhood. The CID will also be a major transfer point, and it is critical for Sound Transit to center CID community voices while choosing the best alternative. Therefore, the TAB Supports: the CID-1a alternative, but also supports the supporters of a "cut and cover", "true shallow" version which can result in cost savings and faster transfers between the existing transit routes already in place. We also hope Sound Transit will mitigate the displacement of large numbers of residents and businesses, if this alternative is chosen. In SODO, the TAB Supports: the preferred at-grade alternative, SODO-1a, as the at-grade alternative to minimize connection distances.</p>	<p>Please see response to CCG2 in Table 7-1. A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>

Appendix O. Draft EIS Comment Summary and Response to Comments

#	Comments	Responses
3	<p>Delridge: the TAB envisions having the transit entrances and bus zones in close proximity to each other. The placing of distance between these two items is inequitable for those who are elderly, mobility challenged, differently abled, families with children, or anyone or group where walking distances would serve as a barrier to service. Therefore, the TAB Supports: either DEL-5 or DEL-6, while neither is ideal, we support plans that don't impact residents and neighborhoods, as DEL1a/b- DEL-4 would, and for connectivity to the West Seattle Junction, we support the WSL-5's tunnel option and believe it will connect best to other West Seattle stations - while preparing well for any future extensions in later phases.</p>	<p>Please see responses to CCG2 and CC3a in Table 7-1.</p>
4	<p>Downtown Segment (Midtown, Westlake, Denny, South Lake Union, Seattle Center/Uptown): the TAB Supports: DT-1 as our only choice, unless a DT-3 plan is created as an improvement on DT-2. The cost savings alternative to consolidate the SLU and Denny stations drastically moves the station to Dexter Avenue, far from the center of the neighborhood - the TAB recommends considering whether the significant cost savings is worth it (\$575 million) vs long-term reduced ridership and mobility access (-10,000 riders). In Uptown, major event crowds make it of paramount importance that the station be sited as close to Seattle Center as possible. Siting the station away from Republican Street would require additional mitigation to ensure pedestrian safety.</p>	<p>A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
5	<p>Ballard Station: while the TAB appreciates both the 14th Ave NW and 15th Ave NW plans, the TAB Supports: IBB-2b, a tunnel station located on 15th Ave NW, as it would be a better fit for transit users, the community, business owners, residents, and future growth planning. If a 20th Ave NW option is revisited, the TAB would support this option over any DEIS alternative, to bring transit users into the central portion of Ballard, and we hope it will be reconsidered.</p>	<p>A response to this comment related to the Ballard Link Extension will be provided as part of the environmental review process for the Ballard Link Extension.</p>
6	<p>Alaska Junction Station: the TAB Supports: the WSJ-5, Medium Tunnel 41st Avenue Station Alternative. We would like to minimize impacts on the West Seattle community, so elevated structures are not supported, and minimizing displacements of residents (153), businesses (15), and employees (90) is crucial, along with controlling the cost of the project (\$1.1B).</p>	<p>Please see response to CCG2 in Table 7-1.</p>
7	<p>These critical stations will serve transit riders well into the future. Do not put cost savings before safety, walk and bike connections, and other critical infrastructure decisions that will make these stations well used for generations.</p>	<p>Please see responses to CC3a and CC3b in Table 7-1.</p>