

West Seattle and Ballard Link Extensions

Planning Commission Level 2 Results | September 2018

Agenda

- Community engagement
- Level 2 alternatives evaluation
- Station Charrette Input
- Planning Commission Questions
- Next steps



Community engagement and collaboration





Neighborhood Forums



Stakeholder Advisory Group



Elected Leadership Group



Sound Transit Board



Meeting dates subject to change.

External Engagement Report: Jun-Aug 2018



17 comments and questions



engaging more than

email engaging more than updates 4,000 subscribers



4 Tweets engaging 82,000 users



5 posts engaging 30,000 users



8 festivals 3,300 community



49 community briefings



Z Stakeholder Advisory Group meetings



Elected Leadership Group meeting

June briefings snapshot

- ✓ Chinatown-International District BIA (6/7)
- ✓ Seattle Design Commission (6/7)
- ✓ Pigeon Point Neighborhood Council (6/11)
- ✓ South downtown stakeholders (6/12)
- ✓ Seattle Planning Commission (6/14)
- ✓ Neighborcare Health Ballard (6/18)
- ✓ SODO BIA Transportation Committee (6/19)
- ✓ Ballard Food Bank (6/20)
- ✓ Sound Transit Citizen Oversight Panel (6/21)
- ✓ CID Framework Capital Projects
 Coordination Workgroup (6/22)

- ✓ UW Medicine (6/25)
- ✓ NSIA (6/26)
- ✓ Ethiopian Community in Seattle (6/26)
- ✓ West Seattle Food Bank (6/28)
- ✓ Southwest Youth & Family Services (6/29)



July briefings snapshot

- √ WSB Station Access Discussion (7/6)
- ✓ Mary's Place (7/10)
- ✓ Central Ballard Residents Association (7/12)
- ✓ South downtown stakeholders (7/12)
- ✓ SODO BIA Transportation Committee (7/13)
- ✓ Ballard Mill Marina (7/16)
- ✓ Western Towboat & American Waterway
 Operators (7/18)
- ✓ Ferguson Terminal (7/18)
- ✓ Fremont Tugboat (7/19)
- √ Transit Access Coalition (7/25)
- ✓ Plymouth Housing Group (7/25)
- ✓ Coastal Transportation (7/25)

- ✓ CID Forum (7/25)
- ✓ Neighborhood House at High Point (7/26)
- ✓ Seattle Maritime Academy (7/26)
- ✓ West Seattle JuNO (7/26)
- ✓ Downtown Residents Council / DSA (7/27)
- ✓ Chinese Information & Service Center (7/30)
- ✓ Mercer Corridor Stakeholders Committee (7/31)



August briefings snapshot

- ✓ Seniors in Action Foundation (8/1)
- ✓ NW Marine Trade Association (8/3)
- ✓ Seattle Yacht Club (8/3)
- ✓ Bowman Refrigeration (8/7)
- ✓ Drink & Link in Delridge (8/8)
- ✓ Labor organizations (8/8)
- ✓ Tugboat tour with Western Towboat (8/10)
- ✓ The Salvation Army (8/20)
- ✓ Wing Luke Museum (8/21)
- ✓ Seahawks/Public Stadium Authority (8/22)

- √ Housing Development Consortium (8/23)
- ✓ Downtown Emergency Service Center (8/28)
- ✓ St. Luke's Episcopal Church (8/29)
- ✓ SLU Community Council, Transportation Committee (8/29)
- ✓ United Indians of All Tribes Foundation (8/29)



2018 Festivals

- ✓ Morgan Junction Festival (6/16)
- ✓ Festival Sundiata (6/16-6/17)
- ✓ West Seattle Summer Fest (7/13-7/15)
- ✓ Ballard Seafood Fest (7/13-7/15)
- ✓ Dragon Fest (7/14-7/15)
- ✓ South Lake Union Block Party (8/10)
- ✓ Delridge Day (8/11)
- ✓ Celebrate Little Saigon (8/26)
- ✓ Chinatown-ID Night Market (9/8)
- Fishermen's Fall Festival (9/15)
- Sustainable Ballard Festival (9/22)
- Magnolia Farmers Market (10/6)
- Dia de Muertos (10/27-10/28)





Station Charrettes

Collaborative design sessions with agencies and community stakeholders

- √ 6/28: Ballard / Interbay
- √ 7/12: Seattle Center
- ✓ 7/20: Delridge
- √ 7/24: Alaska Junction / Avalon.
- √ 7/31: Chinatown International District
- √ 8/2: Denny / SLU
- √ 8/28 SODO/Stadium
- √ 9/13 Smith Cove

Neighborhood Forums / Open Houses

West Seattle

(Includes Delridge, Avalon and Alaska Junction stations)

Downtown Seattle

(Includes Denny, South Lake Union, Seattle Center, Midtown, Westlake, Chinatown-International District, Stadium and SODO stations)

Ballard

(Includes Smith Cove, Interbay and Ballard stations)

Saturday, Sept. 8

9 – 11:30 a.m. Seattle Lutheran High School Gym (4100 SW Genesee St., Seattle)

Tuesday, Sept. 11

5:30 – 8 p.m. Ruth Fisher Boardroom, Union Station (401 S. Jackson St., Seattle)

Monday, Sept. 17

5:30 – 8 p.m.
Ballard Eagleson VFW
(2812 NW Market St., Seattle)



West Seattle project timeline



2016



Alternatives development

Board identifies preferred

Draft Environmental

Final Environmental

Board selects project

PUBLIC INVOLVEMENT

Impact Statement

Impact Statement

Federal Record of

to be built

DESIGN 2022-2025

Final station designs

Procure and commission station and public art

Obtain land use and construction permits

Final route design

PUBLIC INVOLVEMENT



2025-2030

START OF **SERVICE**

2030

Conversations with property owners

Safety education

Testing and pre-operations

PUBLIC INVOLVEMENT

13









Ballard project timeline



APPROVAL

2016



Alternatives development

Board identifies preferred

Draft Environmental Impact Statement

Final Environmental **Impact Statement**

Board selects project to be built

Federal Record of

PUBLIC INVOLVEMENT



DESIGN

2023-2026

Final route design

Final station designs

Procure and commission station and public art

Obtain land use and construction permits

PUBLIC INVOLVEMENT



CONSTRUCTION

2027-2035

START OF **SERVICE**



2035

Conversations with

Safety education

Testing and pre-operations

PUBLIC INVOLVEMENT

VOTER APPROVAL

2016



PLANNING



2017-2019

Alternatives development

Board identifies preferred alternative

2019-2022

Draft Environmental Impact Statement

Final Environmental Impact Statement

Board selects project to be built

Federal Record of Decision

PUBLIC INVOLVEMENT

Alternatives development process

LEVEL 1

Early-2018

Conduct early scoping

Study ST3 representative project and alternatives

Screen alternatives

PUBLIC INVOLVEMENT

LEVEL 2

Alternatives development

Mid-2018

Technical analysis

Refine and screen alternatives

PUBLIC INVOLVEMENT

LEVEL 3

Alternatives development

Late-2018 / Early-2019

Refine and screen alternatives

Conduct Environmental Impact Statement (EIS) scoping

PUBLIC INVOLVEMENT

PREFERRED ALTERNATIVE*

Early-2019



Screening process

Broad range of initial alternatives

Refine remaining alternatives

Further evaluation

Preferred Alternative and other EIS alternatives

Purpose and need

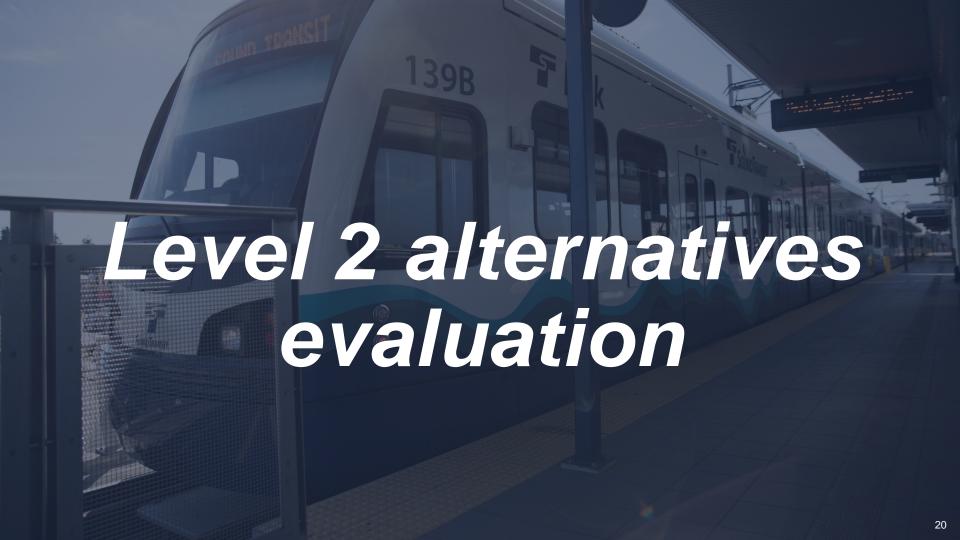
Purpose Statement	Symbol
Provide high quality rapid, reliable, and efficient peak and off-peak LRT service to communities in the project corridors as defined in ST3.	
Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet the projected transit demand.	STATION
Connect regional centers as described in adopted regional and local land use, transportation, and economic development plans and Sound Transit's Regional Transit Long-Range Plan.	0
Implement a system that is consistent with the <i>ST3 Plan</i> that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.	0
Expand mobility for the corridor and region's residents, which include transit dependent, low income, and minority populations.	
Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access, and modal integration in a manner that is consistent with local land use plans and policies.	
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.	(A)

Evaluation criteria

> 17 criteria consistent in all levels of evaluation

- Reliable service
- Travel times
- Regional connectivity
- Transit capacity
- Projected transit demand
- Regional centers served
- ST Long-Range Plan consistency
- ST3 consistency
- Technical feasibility

- Financial sustainability
- Historically underserved populations
- Station area local land use plan consistency
- Modal integration
- Station area development opportunities
- Environmental effects
- Traffic operations
- Economic effects



Cost assessment

- Purpose: To inform comparison of Level 2 alternatives
- Comparative costs by segment
 - Consistent methodology (2017\$; construction, real estate, etc.)
 - Based on limited conceptual design (less than 5% design)
 - > Final project budget established at 60% design (~ 2024)
- Costs for end-to-end alternatives in Level 3

Financial constraints

- > ST3 Plan budget based on 2014 conceptual cost estimates
- Significant recent escalation in construction and real estate costs
- Level 2 cost assessment provides basis for comparison of alternatives within a segment
- Level 3 end-to-end alternatives will facilitate comparison to ST3 budget
- Be mindful of financial realities when considering Level 2 recommendations

Measures and methods

- 50+ quantitative and/or qualitative measures
- Rating thresholds for High, Medium and Low
- Key differentiators and findings

Lower Performing

Medium Periorming

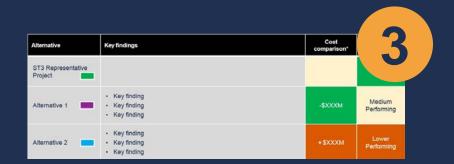
Higher Performing



Study segments



Map of alternatives



Summary



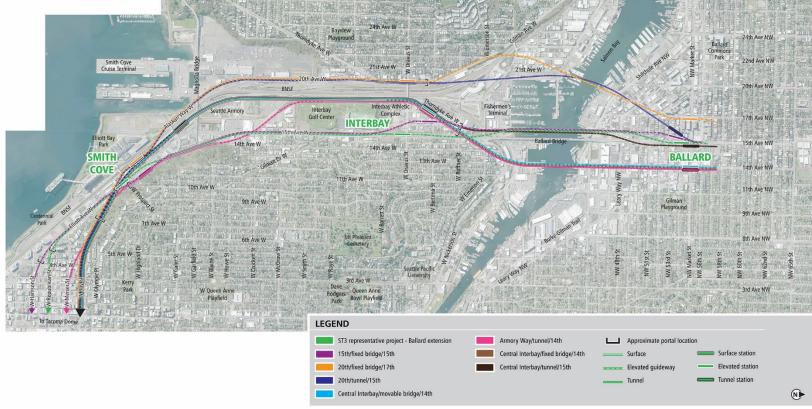
Key differentiators

Level 2 alternatives

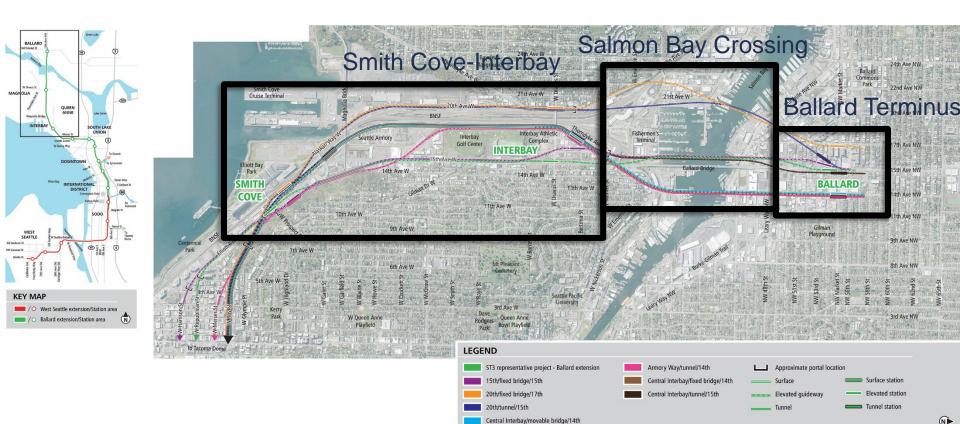
Interbay/Ballard

- ST3 Representative Project
- 15th/Fixed Bridge/15th
- 20th/Fixed Bridge/17th
- 20th/Tunnel/15th
- Armory Way/Tunnel/14th
- Central Interbay/Movable Bridge/14th
- Central Interbay/Fixed Bridge/14th
- Central Interbay/Tunnel/15th





Interbay/Ballard Level 2 alternatives



Interbay/Ballard

Key differentiators – By sub-segment



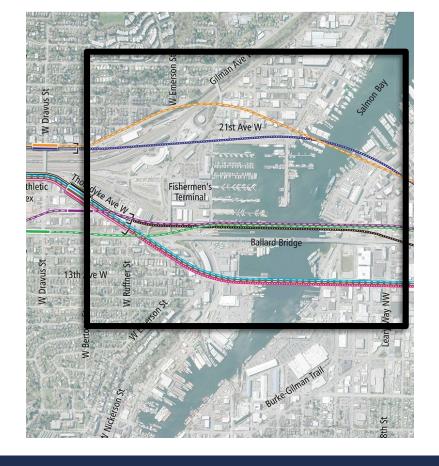
Smith Cove-Interbay:

Key differentiators

- Station location
- Traffic
- Engineering constraints

Key differentiators Smith Cove-Interbay

Alternative	Key differentiators	
ST3 Representative Project		
15 th /Fixed Bridge/15 th	Lessens traffic/freight effects (avoids 15 th Ave median)	
20 th /Fixed Bridge/17 th	Lessens traffic/freight effects (avoids 15th Ave)	
20 th /Tunnel/15 th	Long span bridge (over BNSF tracks) adds complexity	
Central Interbay/ Movable Bridge/14 th		
Armory Way/ Tunnel/14 th	Lessens traffic/freight effects (avoids 15 th Ave)	
Central Interbay/ Fixed Bridge/14 th	At-grade sections (along BNSF tracks) lessen complexity	
Central Interbay/ Tunnel/15 th		



Salmon Bay Crossing:

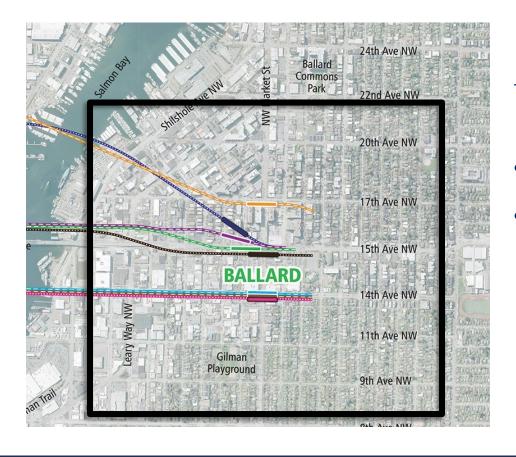
Key differentiators

- Crossing location
- Crossing type
 - Bridge (fixed or movable)
 - Tunnel
- Freight movement
- Business/commerce effects

Interbay/Ballard

Key differentiators Salmon Bay Crossing

Alternative	Key differentiators
ST3 Representative Project	
15 th /Fixed Bridge/15 th	Fewer columns in water than movable bridge Maritime business effects (Fishermen's Terminal)
20 th /Fixed Bridge/17 th	Long-span fixed bridge avoids columns in water
20 th /Tunnel/15 th	Longer tunnel, more constrained portal Includes tunnel; requires 3 rd Party funding
Central Interbay/ Movable Bridge/14 th	Potential service interruptions Maritime business and potential vessel navigation effects
Armory Way/ Tunnel/14 th	Shorter tunnel, less constrained portal Includes tunnel; requires 3 rd Party funding
Central Interbay/ Fixed Bridge/14 th	Fewer columns in water than movable bridge Maritime business effects
Central Interbay/ Tunnel/15 th	Shorter tunnel, less constrained portal Includes tunnel; requires 3 rd Party funding



Ballard Terminus:

Key differentiators

- **Ballard Station location**
- Elevated or tunnel

Key differentiators Ballard Terminus

Alternative	Key differentiators	
ST3 Representative Project		
15 th /Fixed Bridge/15 th	Elevated guideway (west side 15 th Ave NW) affects more parcels More residential displacements	
20 th /Fixed Bridge/17 th	Ballard terminus/crossing location affects more residences Closer to center of Urban Village	
20 th /Tunnel/15 th	Tunnel station (west side 15 th Ave NW) affects residences Deeper tunnel station (~120'); adds complexity	
Central Interbay/ Movable Bridge/14 th		
Armory Way/ Tunnel/14 th	Affects fewer parcels (along 14 th Ave NW) Farther from center of Urban Village Shallower tunnel station (~70')	
Central Interbay/ Fixed Bridge/14 th	Challewer tarmer station (=70)	
Central Interbay/ Tunnel/15 th	Tunnel station (east side 15 th Ave NW) affects businesses Shallower tunnel station (~80')	

Summary Interbay/Ballard

Alternative	Key findings	Cost comparison*	Schedule Comparison**
ST3 Representative Project			
Central Interbay/ Fixed Bridge/14 th	 Maritime business effects (but less than movable bridge) Affects fewer parcels in Ballard (along 14th Ave NW) 	+\$100M	Higher Performing
Central Interbay/ Movable Bridge/14 th	 Potential service interruptions Maritime business and potential vessel navigation effects Affects fewer parcels in Ballard (along 14th Ave NW) 	+\$200M	Higher Performing
15 th /Fixed Bridge/15 th	 Maritime business effects (Fishermen's Terminal) Elevated guideway (west side 15th Ave NW) affects more residences 	+\$200M	Higher Performing
Armory Way/ Tunnel/14 th	 Less environmental, maritime business/navigation effects Affects fewer parcels in Ballard (along 14th Ave NW) Includes tunnel; requires 3rd Party funding 	+\$300M	Higher Performing
Central Interbay/ Tunnel/15 th	 Less environmental, maritime business/navigation effects Tunnel station (east side 15th Ave NW) affects businesses Includes tunnel; requires 3rd Party funding 	+ \$500M	Higher Performing
20 th /Fixed Bridge/17 th	 Long span bridge (over BNSF tracks) adds complexity Ballard terminus/crossing location affects more residences 	+ \$500M	Higher Performing
20 th /Tunnel/15 th	 Long span bridge (over BNSF tracks), constrained tunnel portal location, deeper tunnel station add complexity Tunnel station (west side 15th Ave NW) affects residences Includes tunnel; requires 3rd Party funding 	+ \$700M	Higher Performing

Level 2 alternatives

Downtown

- ST3 Representative Project
- 5th/Harrison
- 6th/Boren/Roy
- 5th/Terry/Roy/Mercer



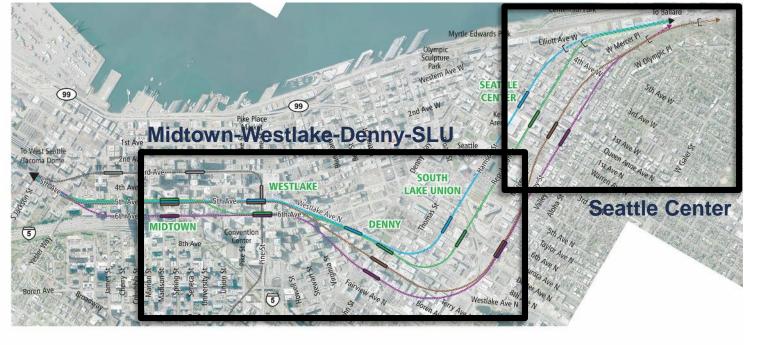


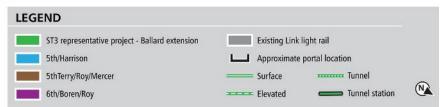


Downtown

Level 2 alternatives







Downtown



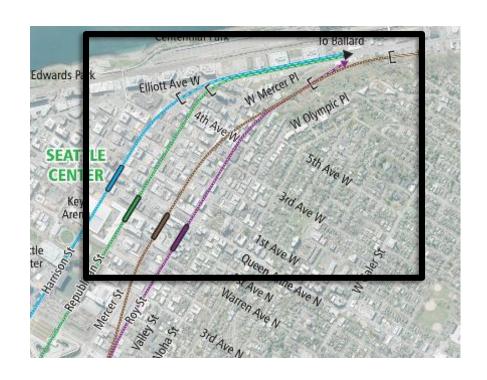
Midtown-Westlake-Denny-SLU:

Key differentiators

- Station location
- Bus-rail integration
- Engineering constraints

Key differentiators Midtown-Westlake-Denny-SLU

Alternative	Key differentiators
ST3 Representative Project	
5 th /Harrison	Better bus/rail integration opportunity at SLU station on Harrison
6th/Boren/Roy	Avoids building foundation tie-backs on 5 th Ave, SR 99 portal and sewer More constrained Denny station on Boren
5th/Terry/Roy/Mercer	Avoids SR 99 portal and sewer



Seattle Center:

Key differentiators

- Station location
- Property effects
- Bus-rail integration
- Portal location

Key differentiators Seattle Center

Alternative	Key differentiators
ST3 Representative Project	
5 th /Harrison	Tunnel station on Harrison, west of soon-to-be-renovated Key Arena Engineering challenges with tunneling under Key Arena Property effects due to tunnel portal location on Harrison
6th/Boren/Roy	Tunnel station on Roy, two blocks from Key Arena Lower bus/rail integration opportunity at Seattle Center station on Roy
5th/Terry/Roy/Mercer	Tunnel station on Mercer, one block from Key Arena

Summary Downtown

Alternative	Key findings	Cost comparison*	Schedule comparison*
ST3 Representative Project			
6th/Boren/Roy	 Avoids building tie-backs on 5th Ave, SR 99 portal and sewer More constrained Denny station location on Boren Seattle Center station location on Roy, two blocks from Key Arena Lower bus/rail integration opportunity at Seattle Center station on Roy 	Similar	Higher Performing
5 th /Harrison	 Better bus/rail integration opportunity at SLU station on Harrison Higher property effects due to tunnel portal location on Harrison west of Seattle Center Engineering challenges with tunneling under Key Arena 	+ \$200M	Higher Performing
5 th /Terry/Roy/ Mercer	 Avoids SR 99 portal and sewer Seattle Center station location on Mercer, one block from Key Arena 	+ \$200M	Higher Performing

^{*}Cost compared to cost of ST3 Representative Project for this segment. Schedule compared to overall ST3 schedule for this extension.

Level 2 alternatives

SODO/Chinatown-ID

- ST3 Representative Project
- Massachusetts Tunnel Portal
- Surface E-3
- 4th Avenue Cut-and-Cover C-ID
- 4th Avenue Mined C-ID
- 5th Avenue Mined C-ID
- Occidental Avenue

ST3 Representative Project

Solve Settle

So

Massachusetts
Tunnel Portal

Sound Transit
Operation 8Maintenance-seality

Safeco Field

CenturyLink Field

2nd Ave S

Strong Screen

Stro

Surface E-3



SODO and Chinatown-ID

Level 2 alternatives – 1 of 3

4th Avenue Cut-and-Cover C-ID ## Ave S

To West Seattle

SODO ## SODO ## Sound Transit
Operation & Maintenance Facility

To To Comma Dome

Sound Transit
Operation & Maintenance Facility

To To Comma Dome

Sound Transit
Operation & Maintenance Facility

To To Comma Dome

Sound Transit
Operation & Maintenance Facility

To To Comma Dome

To To Co

4th Avenue Mined C-ID

Sing County Metro

Sound Transit
Operation &
Maintenance-facility
To Tacoma Dome.

Safeco Field

INTERNATIONAL DISTRICT/
CHINATOWN
Sing Street Station
Operation &
Maintenance-facility
To Tacoma Dome.

Safeco Field

INTERNATIONAL DISTRICT/
CHINATOWN
Sing Street Station
Operation &
Sound Transit
Operation &
Maintenance-facility
To Tacoma Dome.

Jopposiment portal location
New randway everoressing
Surface
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Surface station

5th Avenue Mined C-ID



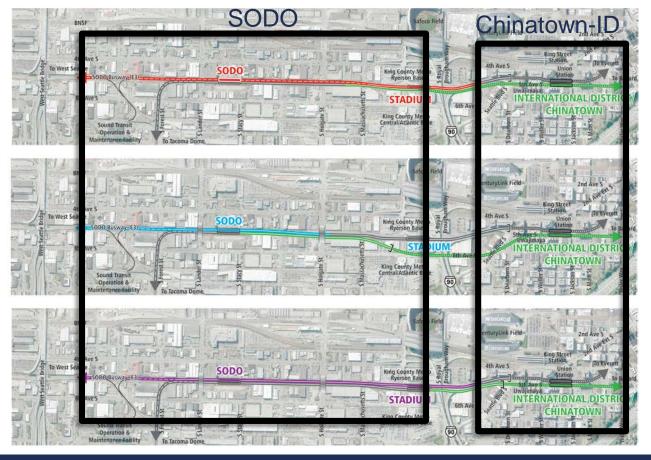
SODO and Chinatown-ID

Level 2 alternatives - 2 of 3



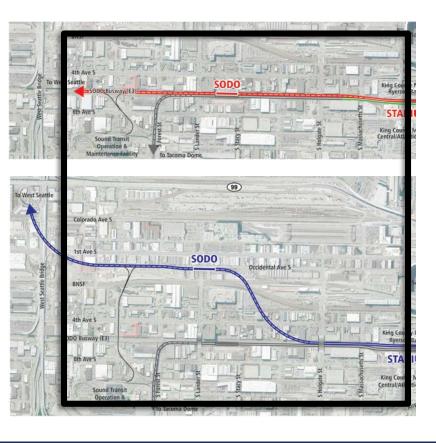
Occidental Avenue

SODO and Chinatown-ID



SODO and Chinatown-ID

Key differentiators – *By sub-segment*



SODO:

Key differentiators

- New SODO Station location
- Transfer with existing station
- Engineering/ constructability issues
- Bus operations
- Property effects
- Rail, traffic & freight operations

SODO and Chinatown-ID

Summary sodo

Alternative	Key findings	Cost comparison*	Schedule comparison*
ST3 Representative Project			
Surface E-3	 New at-grade SODO Station on E-3 transitway at Lander Transfer at existing SODO Station Bus operations on E-3 transitway displaced New grade-separated roadway crossings (Lander, Holgate) improve existing rail/traffic/freight operations Property effects at tunnel portal site (for Massachusetts Tunnel Portal alternative only) Massachusetts Tunnel Portal alternative avoids impacts to Ryerson Base 	-\$100M	Higher Performing
Massachusetts Tunnel Portal		**	Higher Performing
Occidental Ave.	 New elevated SODO Station on Occidental Ave at Lander Transfer at existing Stadium Station Long span bridges over BNSF tracks and longer track connection to maintenance facility Bus operations on E-3 transitway partially displaced Property effects along Occidental, BNSF crossings and maintenance facility connection 	+ \$200M	Higher Performing

^{*}Cost compared to cost of ST3 Representative Project for this SODO sub-segment only. Schedule compared to overall ST3 schedule for this extension. **Cost comparison reflected in Chinatown/ID summary table.

Chinatown-International District:

Key differentiators

- Station location
- Ease of station access/passenger transfers
- Construction, traffic effects
- Property effects
- Viaduct re-build project issues



SODO and Chinatown-ID

Summary Chinatown-ID

Alternative	Key findings	Cost comparison*	Schedule comparison*
ST3 Representative Project			
E-3 Surface (shorter 5 th Ave Cut-and- Cover Tunnel)	 Shallow cut-and-cover station under 5th Ave; easy rider access/transfers Construction effects, lane closures on 5th Ave in station area 	- \$300M**	Higher Performing
Massachusetts Tunnel Portal (5th Ave Bored Tunnel)	 Shallow cut-and-cover station under 5th Ave; easy rider access/transfers Construction effects, lane closures on 5th Ave in station area 	- \$200M	Higher Performing
5 th Ave Mined C-ID	 Deep mined station (~200') under 5th Ave; poor rider access/transfers Less construction effects, lane closures on 5th Ave with mined station Some property effects (for mined station access shaft) Results in very deep Midtown Station (~250') 	Similar	Medium Performing
4 th Ave Mined C-ID	 Deep mined station (~200') under 4th Ave, poor rider access/transfers Major engineering/constructability constraints (4th Ave viaduct demolition/rebuild, active BNSF railway, existing transit tunnel, etc.) Large property effects (Ryerson Base for tunnel portal site) Requires 3rd party funding of 4th Ave Viaduct re-build costs Results in very deep Midtown Station (~250') 	+ \$500M	Lower Performing
4 th Ave Cut-and-Cover C-ID	 Shallow cut-and-cover station under 4th Ave; easy rider access/transfers Major engineering/constructability constraints (4th Ave viaduct demolition/rebuild, active BNSF railway, existing transit tunnel, etc.) Large property effects (King County Admin Building) Requires 3rd party funding of 4th Ave Viaduct re-buildcosts 	+ \$600M	Lower Performing

^{*}Cost compared to cost of ST3 Representative Project for this segment. Schedule compared to overall ST3 schedule for this extension.

^{**}Cost comparison for Chinatown/ID sub-segment only; total SODO/C-ID segment cost difference is - \$400M compared to ST3 Representative Project.

Level 2 alternatives

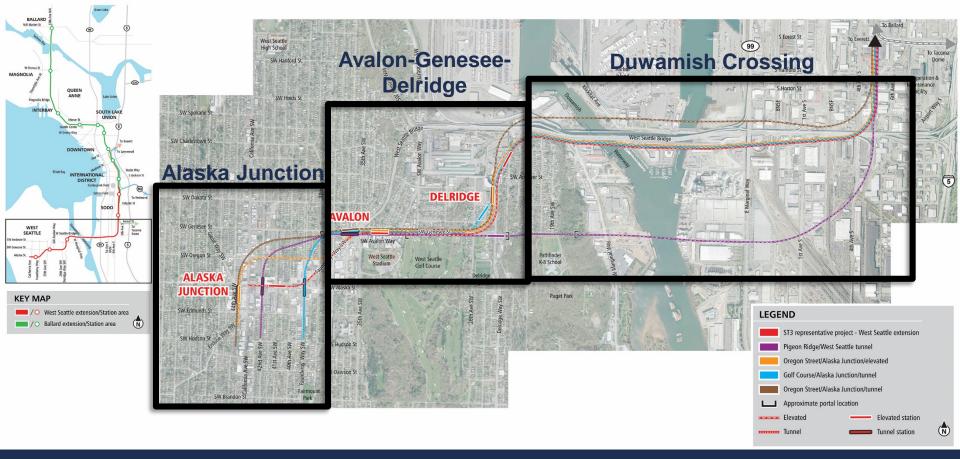
West Seattle/Duwamish

- ST3 Representative Project
- Pigeon Ridge/West Seattle Tunnel
- Oregon Street/Alaska Junction/Elevated
- Oregon Street/Alaska Junction/Tunnel (new)
- Golf Course/Alaska Junction/Tunnel (modified)



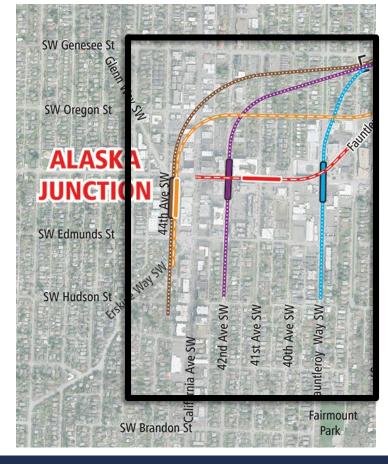
West Seattle/Duwamish

Level 2 alternatives



West Seattle/Duwamish

Key differentiators – By sub-segment



Alaska Junction:

Key differentiators

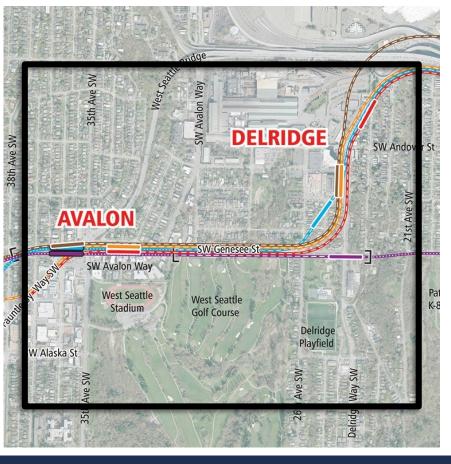
- Station location
- Residential/business effects
- Ease of future extension
- Guideway height in Delridge



West Seattle/Duwamish

Key differentiators Alaska Junction

Alternative	Key differentiators
ST3 Representative Project	
Pigeon Ridge / West Seattle Tunnel	Tunnel station at 42 nd Ave SW Facilitates low guideway in Delridge (along Genesee) Includes tunnel; requires 3 rd Party funding
Oregon Street / Alaska Junction / Elevated	Elevated station at 44 th Ave SW Increases residential and business effects Complicates future extension south
Golf Course / Alaska Junction / Tunnel	Tunnel station at Fauntleroy Way SW Lessens residential and business effects Facilitates low guideway in Delridge (along Genesee) Includes tunnel; requires 3 rd Party funding
Oregon Street / Alaska Junction / Tunnel	Tunnel station at 44 th Ave SW; tunnel portal in 37 th Ave SW vicinity Includes tunnel; requires 3 rd Party funding



Avalon-Genesee-Delridge:

Key differentiators

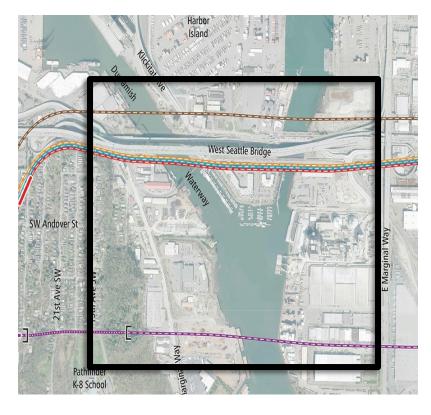
- Station location
- Residential/business effects
- Guideway height



West Seattle/Duwamish

Key differentiators Avalon-Genesee-Delridge

Alternative	Key differentiators
ST3 Representative Project	
Pigeon Ridge / West Seattle Tunnel	Furthest south Delridge station location Lessens residential and business effects in Delridge Low guideway along Genesee; tunnel Avalon station
Oregon Street / Alaska Junction / Elevated	Delridge station south of SW Andover Street High guideway along Genesee; elevated Avalon station
Golf Course / Alaska Junction / Tunnel	Off-street Delridge station west of Delridge Way SW Low guideway along Genesee; tunnel Avalon station
Oregon Street / Alaska Junction / Tunnel	Delridge station south of SW Andover Street High guideway along Genesee; elevated Avalon station



Duwamish Crossing:

Key differentiators

- Crossing location
- Engineering constraints
- Fish and wildlife effects
- Freight movement



West Seattle/Duwamish

Key differentiators Duwamish Crossing

Alternative	Key differentiators
ST3 Representative Project	
Pigeon Ridge / West Seattle Tunnel	Bridge crossing near Idaho Street; south of Harbor Island Most engineering constraints (tunnel through unstable slopes, widest water crossing, wide Union Pacific Argo railyard crossing, high voltage lines etc.) Most effects to Duwamish Greenbelt
Oregon Street / Alaska Junction / Elevated	Bridge crossing on south side of West Seattle bridge
Golf Course / Alaska Junction / Tunnel	Some engineering constraints (Pigeon Point steep slope) Some effects to Duwamish Greenbelt (Pigeon Point)
Oregon Street / Alaska Junction / Tunnel	Bridge crossing on north side of West Seattle bridge Fewer engineering constraints (avoids Pigeon Point steep slope) Avoids effects to Duwamish Greenbelt Affects freight, port terminal facilities during construction

Summary West Seattle / Duwamish

Alternative	Key findings	Cost comparison*	Schedule comparison*
ST3 Representative Project			
Oregon Street / Alaska Junction / Elevated	 3 elevated stations Increases residential/business effects at Junction Complicates future extension south High guideway along Genesee 	Similar	Higher Performing
Oregon Street / Alaska Junction / Tunnel	 1 tunnel station; 2 elevated stations High guideway along Genesee Fewer engineering constraints Affects freight, port terminal facilities during construction Includes tunnel; requires 3rd Party funding 	+\$500M	Lower Performing
Golf Course / Alaska Junction / Tunnel	 2 tunnel stations; 1 elevated station Lessens residential/business effects at Junction Low guideway along Genesee Includes tunnel; requires 3rd Party funding 	+\$700M	Lower Performing
Pigeon Ridge / West Seattle Tunnel	 2 tunnels; 2 tunnel stations; 1 elevated station Most engineering constraints Most effects to Duwamish Greenbelt Low guideway along Genesee Lessens residential and business effects in Delridge Includes two tunnels; requires 3rd Party funding 	+ \$1,200M	Lower Performing

^{*}Cost compared to cost of ST3 Representative Project for this segment. Schedule compared to overall ST3 schedule for this extension.



Station Charrette Feedback Ballard Station



17th Ave NW

effects on neighborhood

station with neighborhood

Good non-motorized access

Some TOD potential

Concern about potential construction

Concern about compatibility of elevated

Challenging for transit integration and

circulation (fire station operations)

- 15th Ave NW **Elevated Elevated or Tunnel**
- Good location to serve historic center of Moving station out of ROW reduces freight conflicts Ballard and Swedish Medical Center
 - · Concern about compatibility of elevated station with neighborhood
 - Close to an area with good development potential
 - Excellent transit integration and circulation
 - Good non-motorized access
 - Considerable TOD potential (tunnel)
 - Some TOD potential (elevated)

Elevated or Tunnel

14th Ave NW

- Location farthest from historic center of Ballard, but still in the urban village
- · Most compatible elevated option, with large available ROW and potential for reconstructing 14th as a more fullservice street
- On the path of future growth, though much of station area is zoned industrial
- Good transit integration and circulation
- Good non-motorized access
- Considerable TOD potential







Station Charrette Feedback Interbay Station



20th Ave W At Grade or Elevated



17th Ave W At Grade or Elevated



16th Ave W Elevated



15th Ave W Elevated

- Good location to serve Magnolia
- Not much zoned development capacity in the station area
- Challenging for transit integration, requiring long deviations
- Good non-motorized access to existing facilities
- Limited TOD potential

- Best serves emerging Interbay Triangle neighborhood
- Good transit integration
- Challenging for nonmotorized access from east, but opportunities for substantial enhancements
- Considerable TOD potential

- Not developed further in charrette
- Concerns about station compatibility with emerging neighborhood fabric
- Challenging for transit integration
- Challenging for nonmotorized access
- Some TOD potential

- Not developed further in charrette
- Concerns about potential effects to freight and general mobility on 15th Ave W corridor during construction
- Good transit integration
- Challenging for nonmotorized access
- Limited TOD potential





Station Charrette Feedback Seattle Center Station



Harrison St Tunnel



Republican St Tunnel



Mercer St Tunnel



Roy St Tunnel

- Good location to serve Key Arena, but concern about connection to broader Seattle Center
- Farthest from "Heart of Uptown," but serves core of up-zoned neighborhood
- Good transit integration
- · Good non-motorized access
- Good TOD potential





- Location serves Seattle Center, Key Arena, and Uptown
- Good opportunities for station entries integrated into existing buildings
- Good transit integration and non-motorized access
- High urban design potential

- Location serves Uptown well, but concern about legibility of connection to Seattle Center
- Good opportunities for station entries integrated into buildings on Mercer
- Excellent transit integration
- Good non-motorized access
- Good TOD potential

- Location serves Uptown, but concern about legibility of connection to Seattle Center
- Some opportunities for station entries integrated into buildings
- Challenging for transit integration and nonmotorized access



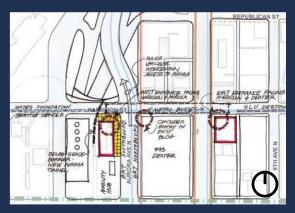


Station Charrette Feedback South Lake Union Station



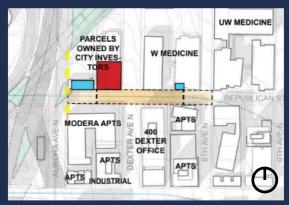
Harrison St Tunnel

- Good location to serve South Lake Union, Gates Foundation, east entrance of Seattle Center
- Good opportunities for station entries integrated into new or existing buildings
- Excellent transit integration for buses traveling on SR 99
- Good non-motorized access through existing and planned facilities



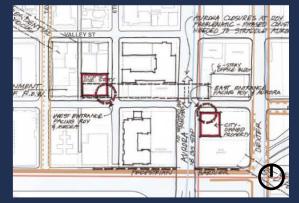


- Challenging location due to SR 99 adjacency
- Serves SLU but not Gates Foundation or Seattle Center
- Limited opportunities for station entries integrated into new or existing buildings
- Poor transit integration for buses traveling on SR 99
- Poor non-motorized access due to truncated walkshed





- Challenging location due to SR 99
- Serves north end of SLU, but provides good connection to Lake Union as well as Queen Anne
- Good opportunities for station entries integrated into new buildings
- Challenging for transit integration; would require reconfiguration of SR 99 bus lanes
- Challenging for non-motorized access



Station Charrette Feedback Denny Station

- Westlake Ave Tunnel
- Good location to serve Amazon HQ and new Denny Triangle development
- Good opportunities for station entries integrated into public space and/or buildings
- Excellent transit integration
- Excellent non-motorized access
- Concerns about construction impacts on traffic and streetcar operations





- Good location to serve Cascade neighborhood
- Good opportunities for station entries integrated into new and/or existing buildings
- Challenging for transit integration
- Good non-motorized access, with opportunity to negotiate grade on Denny through hill climbs or escalators in station





- Not further developed in charrette
- Farthest from densest part of Denny Triangle
- Constrained by brand-new development, but some opportunity to locate station entries in triangular parcels
- Challenging for transit integration
- Challenging for non-motorized access; at top of steep grade on Denny



Station Charrette Feedback Chinatown-ID





5th Ave S Tunnel Mined



4th Ave S Tunnel Cut and Cover



4th Ave S Tunnel Mined

- Greatest concern about construction effects to C-ID neighborhood and displacement of businesses
- Less opportunity to connect to King Street Station
- Could activate Union Station and plaza
- Some TOD potential

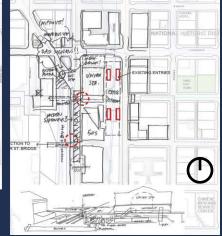
- Less concern about construction effects
- Less opportunity to connect to King Street Station
- Could activate Union Station and plaza
- Could span Jackson Street
- Some TOD potential

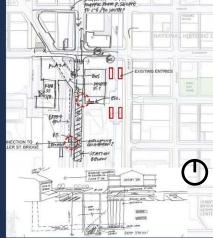
- Concern about construction effects to traffic with 4th Ave S viaduct rebuild
- Opportunity to connect to King Street Station services
- Could activate Union Station
- Limited TOD potential

- Concern about construction effects to traffic with 4th Ave S viaduct rebuild
- Opportunity to connect to King Street Station services via station mezzanine
- Could activate Union Station
- Limited TOD potential









Station Charrette Feedback Delridge Station



Center Delridge Elevated



W Side Delridge Elevated



25th Avenue S Elevated



Genesee Elevated

- Not further developed in charrette
- Farthest from community center and amenities
- Challenging for transit integration
- Challenging non-motorized access and wayfinding
- Limited TOD potential

- Concerns about station height and bulk, compatibility with neighborhood
- Good transit integration, but would require access enhancements to east
- · Good non-motorized access
- Some TOD potential

- Lower guideway and station could be more compatible with neighborhood
- Close to community center and amenities
- Good transit integration, but would require wayfinding and access enhancements
- Considerable potential for TOD in partnership

- Lower guideway and station more compatible with neighborhood
- Directly serves community center and amenities, but affects skate park
- Excellent transit integration and non-motorized access
- Limited TOD potential









Station Charrette Feedback Avalon Station



South Side Genesee Elevated

- Fauntleroy Span
 Elevated and Cut and Cover
- Concern about station height and bulk, compatibility with neighborhood
- Concerns about potential traffic queuing lengths and intersection safety
- Challenging transit integration
- Limited non-motorized access; concerns about pedestrian and cyclist safety
- Limited TOD potential



- Concern about elevated station height and bulk, compatibility with neighborhood, but potential for gateway expression
- Concerns about potential traffic queuing lengths and intersection safety
- · Challenging transit integration
- Good non-motorized access by siting entries on both sides of Fauntleroy
- Some TOD potential



Station Charrette Feedback Alaska Junction Station



SW Alaska St Elevated



44th Ave SW Elevated or Tunnel



42nd/41st Ave SW Tunnel



Fauntleroy Way SW Tunnel

- Not explored further in charrette
- Concern about station height and bulk, compatibility with neighborhood
- Good transit integration and non-motorized access
- Some TOD potential

- Concern about effects to neighborhood character if elevated
- Permanent effects to business parking likely
- Excellent transit integration
- Good non-motorized access
- Limited TOD potential

- Most compatible with neighborhood character
- Great urban design potential
- Opportunities for enhanced public realm
- Excellent transit integration and non-motorized access
- Considerable TOD potential

- More distant from heart of business district, but closer to new development areas and amenities
- Somewhat challenging for transit integration
- · Good non-motorized access
- Some TOD potential













Community engagement and collaboration





Neighborhood Forums



Stakeholder Advisory Group



Elected Leadership Group



Sound Transit Board



Meeting dates subject to change.

Next steps

SAG Meeting #8	Sep 5	Level 2 evaluation results
Neighborhood Forum/Open House West Seattle	Sep 8	Level 2 evaluation results
Neighborhood Forum/Open House Downtown	Sep 11	Level 2 evaluation results
Neighborhood Forum/Open House Ballard	Sep 17	Level 2 evaluation results
SAG Meeting #9	Sep 26	Level 2 recommendations
ELG Meeting #4	Oct 5	Level 2 recommendations







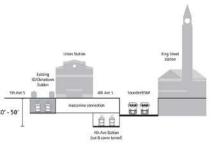






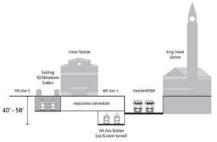






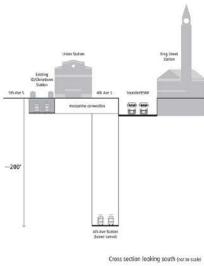
Cross section looking south (not to scale)

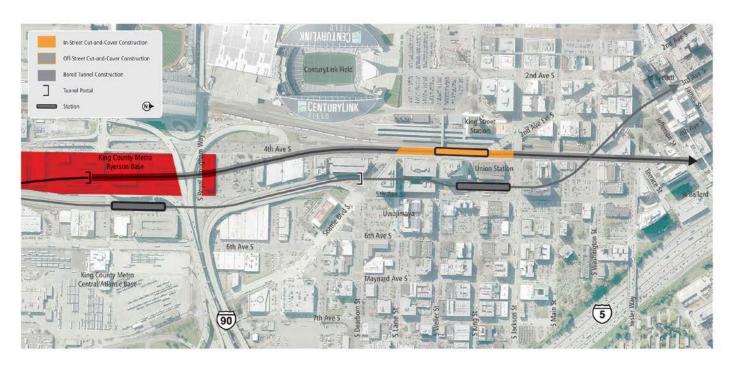


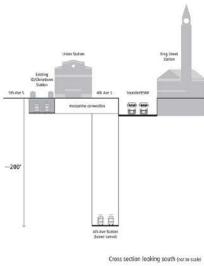


Cross section looking south (not to scale)









Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th			
Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the project corridors defined in ST3.											
Potential Service Interruptions	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Travel Times (minutes)	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6			
Improve regional mobility by increasing	Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.										
Network Integration	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Ridership Potential (2040 pop/emp) (1)	17,200	16,700	19,000	17,800	15,400	16,400	15,400	16,500			
Connect regional centers as described in		l local land use, trans	portation, and econor	mic development plan	s and Sound Transit's	Long-Range Plan.					
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Manufacturing/Industrial Centers Served		1	1	1	1	1	1	1			
Accommodates Future LRT Extension	Medium	Medium	Lower	Higher	Medium	Higher	Medium	Higher			
Implement a system that is consistent w	ith the ST3 Plan that e	established transit mo	de, corridor, and stati	ion locations and that	is technically feasible	and financially sust	ainable to build, opera	ite, and maintain.			
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher			
Potential ST3 Schedule Effects	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher			
Potential ST3 Operating Plan Effects	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Engineering Constraints	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Constructability Issues	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Operational Constraints	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Conceptual Capital Cost Comparison	-	\$200M increase	\$500M increase	\$700M increase	\$200M increase	\$300M increase	\$100M increase	\$500M increase			
Operating Cost Impacts	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Expand mobility for the corridor and reg	ion's residents, which	include transit depen	dent, low income, and	d minority population	s.						
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
(activity nodes/subsidized rental units) (1)	8%	9%	8%	8%	8%	8%	8%	9%			
Low-Income Population (1/2)	19% / 18%	20% / 18%	20% / 18%	20% / 18%	19% / 18%	19% / 18%	19% / 18%	19% / 18%			
Minority Population (1/2)	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%			
Youth Population (1/2)	9% / 12%	11% / 12%	11% / 12%	11% / 12%	12% / 12%	11% / 12%	12% / 12%	10% / 12%			
Elderly Population (1/2)	10% / 10%	10% / 10%	10% / 10%	10% / 10%	9% / 10%	9% / 10%	9% / 10%	10% / 10%			
Limited English Proficiency Population (1/2)	4% / 3%	4% / 3%	4% / 3%	4% / 3%	3% / 3%	3% / 3%	3% / 3%	3% / 3%			
Disabled Population (1/2)	9% / 8%	9% / 8%	9% / 8%	9% / 8%	8% / 8%	8% / 8%	8% / 8%	9% / 8%			

⁽¹⁾ Within station walksheds

Medium Performing **Higher Performing**

Interbay/Ballard
Level 2 alternatives evaluation – Part 1 of 2

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th			
Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the project corridors defined in ST3.											
Potential Service Interruptions	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Travel Times (minutes)	5 to 6		5 to 6	5 to c	5 to 6	5 to 6	5 to 6	5 to 6			
Improve regional mobility by increasing connectivity and capacity the demand.											
Network Integration	Medium	Movable	bridges have p	otential	Medium	Medium	Medium	Medium			
Passenger Carrying Capacity	Medium				Medium	Medium	Medium	Medium			
Ridership Potential (2040 pop/emp) (1)	17,200	Se	rvice interruption	15	15,400	16,400	15,400	16,500			
Connect regional centers as described in	adopted regional and	d local <mark>lana ase, a ans</mark>	, , , , , , , , , , , , , , , , , , , 	me acreepment plai	ns and Sound Transit's	Long-Range Plan.					
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Manufacturing/Industrial Centers Served	1	1	1	1	1	1	1	1			
Accommodates Future LRT Extension	Medium	Medium	Lower	Higher	Medium	Higher	Medium	Higher			
Implement a system that is consistent w	ith the ST3 Plan that e	established transit mo	de, corridor, and stat	ion locations and tha	t is technically feasible	and financially sust	ainable to build, opera	ite, and maintain.			
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher			
Potential ST3 Schedule Effects	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher			
Potential ST3 Operating Plan Effects	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Engineering Constraints	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Constructability Issues	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Operational Constraints	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Conceptual Capital Cost Comparison	-	\$200M increase	\$500M increase	\$700M increase	\$200M increase	\$300M increase	\$100M increase	\$500M increase			
Operating Cost Impacts	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Expand mobility for the corridor and reg	ion's residents, which	include transit depen	dent, low income, an	d minority populatior	ıs.						
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
(activity nodes/subsidized rental units) (1)	8%	9%	8%	8%	8%	8%	8%	9%			
Low-Income Population (1/2)	19% / 18%	20% / 18%	20% / 18%	20% / 18%	19% / 18%	19% / 18%	19% / 18%	19% / 18%			
Minority Population (1/2)	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%			
Youth Population (1/2)	9% / 12%	11% / 12%	11% / 12%	11% / 12%	12% / 12%	11% / 12%	12% / 12%	10% / 12%			
Elderly Population (1/2)	10% / 10%	10% / 10%	10% / 10%	10% / 10%	9% / 10%	9% / 10%	9% / 10%	10% / 10%			
Limited English Proficiency Population (1/2)	4% / 3%	4% / 3%	4% / 3%	4% / 3%	3% / 3%	3% / 3%	3% / 3%	3% / 3%			
Disabled Population (1/2)	9% / 8%	9% / 8%	9% / 8%	9% / 8%	8% / 8%	8% / 8%	8% / 8%	9% / 8%			

⁽¹⁾ Within station walksheds

1

Lower Performing

Medium Performing Higher Performing





⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th			
Provide high quality rapid, reliable, and	efficient peak and off	peak light rail transit	service to communiti	es in the project corrid	dors defined in ST3.						
Potential Service Interruptions	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Travel Times (minutes)	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6			
Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.											
Network Integration	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Passenger Carrying Capacity	Medium	Medium			Medium	Medium	Medium	Medium			
Ridership Potential (2040 pop/emp) (1)	17,200	16,700	Long spa	ns (over BNSF	15,40	16 400	15,400	16,500			
Connect regional centers as described in		d local land use, trans	po tracks), co	nstrained tunnel	d Sound At	grade sections					
Regional Growth Centers Served	N/A (3)	N/A		on, deeper tunne		sen complexity	N/A	N/A			
Manufacturing/Industrial Centers Served	1	1			1	och complexity	1	1			
Accommodates Future LRT Extension	Medium	Medium	station a	dd complexity	Medium	Highe	Medium	Higher			
Implement a system that is consistent w	ith the ST3 Plan that e	established transit mo	de, corridor, and stat	ion loca that	is technically fe	and financially	inable to build, opera	ite, and maintain.			
Mode, Route and Stations per ST3	Higher	Higher	Higher	A	Higher	Higher	Higher	Higher			
Potential ST3 Schedule Effects	Higher	Higher	Higher	H	Higher	Higher	Higher	Higher			
Potential ST3 Operating Plan Effects	Lower	Higher	Higher	Hig er	Lower	Higher	Higher	Higher			
Engineering Constraints	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Constructability Issues	Medium	Medium	Medium	Lower	Higher	Lower	Higher	Lower			
Operational Constraints	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher			
Conceptual Capital Cost Comparison	-	\$200M increase	\$500M increase	\$700M increase	\$200M increase	\$300M increase	\$100M increase	\$500M increase			
Operating Cost Impacts	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Expand mobility for the corridor and reg	ion's residents, which	include transit depen	dent, low income, an	d minority populations	S.						
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
(activity nodes/subsidized rental units) (1)	8%	9%	8%	8%	8%	8%	8%	9%			
Low-Income Population (1/2)	19% / 18%	20% / 18%	20% / 18%	20% / 18%	19% / 18%	19% / 18%	19% / 18%	19% / 18%			
Minority Population (1/2)	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%			
Youth Population (1/2)	9% / 12%	11% / 12%	11% / 12%	11% / 12%	12% / 12%	11% / 12%	12% / 12%	10% / 12%			
Elderly Population (1/2)	10% / 10%	10% / 10%	10% / 10%	10% / 10%	9% / 10%	9% / 10%	9% / 10%	10% / 10%			
Limited English Proficiency Population (1/2)	4% / 3%	4% / 3%	4% / 3%	4% / 3%	3% / 3%	3% / 3%	3% / 3%	3% / 3%			
Disabled Population (1/2)	9% / 8%	9% / 8%	9% / 8%	9% / 8%	8% / 8%	8% / 8%	8% / 8%	9% / 8%			
(1) Within station walksheds	·	·	·	·	·						

Within station walkshe

Interbay/Ballard



Lower Performing

Medium

Performing

= Key Differentiators

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th		
Provide high quality rapid, reliable, and	efficient peak and off-	peak light rail transit	service to communiti	es in the project corri	dors defined in ST3.					
Potential Service Interruptions	Lower	Higher	Higher	Higher	Lower	Higher	Higher	Higher		
Travel Times (minutes)	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6	5 to 6		
Improve regional mobility by increasing	Improve regional mobility by increasing connectivity and capacity through downtown Seattle to meet projected transit demand.									
Network Integration	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Ridership Potential (2040 pop/emp) (1)	17,200	16,700	19,000	17,800	15,400	16,400	15,400	16,500		
Connect regional centers as described in	adopted regional and	l local land use, trans	portation, and econor	mic development plan	s and Sound Transit's	Long-Range Plan.				
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Manufacturing/Industrial Centers Served	1	1	1	1	1	1	1	1		
Accommodates Future LRT Extension	Medium	Medium	Lower	Higher	Medium	Higher	Medium	Higher		
Implement a system that is consistent w	ith the ST3 Plan that e	established transit mo	de, corridor, and stat	ion locations and that	t is technic <mark>ally feasible</mark>	and financially susta	inable to build, opera	te, and maintain.		
Mode, Route and Stations per ST3	Higher	Higher	Higher	ighest cost	Hig Lov	vest cost	Higher	Higher		
Potential ST3 Schedule Effects	Higher	Higher	Higher	~	Hig tunnel	alternative	Higher	Higher		
Potential ST3 Operating Plan Effects	Lower	Higher	Higher	alternative	Lower		Higher	Higher		
Engineering Constraints	Medium	Medium	Medium	4	Higher	er	Higher	Lower		
Constructability Issues	Medium	Medium	Medium	Ld er	Higher	ver	Higher	Lower		
Operational Constraints	Lower	Higher	Higher	Higher	Lower	Hyher	Higher	Higher		
Conceptual Capital Cost Comparison	-	\$200M increase	\$500M increase	\$700M increase	\$200M increase	\$300M increase	\$100M increase	\$500M increase		
Operating Cost Impacts	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Expand mobility for the corridor and reg	ion's residents, which	include transit depen	dent, low income, an	d minority population	S.					
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium	Includes tunne	el; num	Medium		
(activity nodes/subsidized rental units) (1)	8%	9%	8%	8%	8%	requires 3rd Pa	rtv 8%	9%		
Low-Income Population (1/2)	19% / 18%	20% / 18%	20% / 18%	20% / 18%	19% / 18%	funding	% / 18%	19% / 18%		
Minority Population (1/2)	21% / 20%	21% / 20%	21% / 20%	21% / 20%	21% / 20%	runung	% / 20%	21% / 20%		
Youth Population (1/2)	9% / 12%	11% / 12%	11% / 12%	11% / 12%	12% / 12%	11% / 12%	12% / 12%	10% / 12%		
Elderly Population (1/2)	10% / 10%	10% / 10%	10% / 10%	10% / 10%	9% / 10%	9% / 10%	9% / 10%	10% / 10%		
Limited English Proficiency Population (1/2)	4% / 3%	4% / 3%	4% / 3%	4% / 3%	3% / 3%	3% / 3%	3% / 3%	3% / 3%		
Disabled Population (1/2)	9% / 8%	9% / 8%	9% / 8%	9% / 8%	8% / 8%	8% / 8%	8% / 8%	9% / 8%		

⁽¹⁾ Within station walksheds

Interbay/Ballard



Lower Performing

Medium

Performing

= Key Differentiators

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th
Encourage equitable and sustainable urban	growth in station area	s through support of	transit-oriented develo	pment, station acce	ss, and modal integration	on in a manner that	is consistent with local	land use plans and
policies.								
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Activity Nodes Served (1)	26	32	36	33	24	23	24	35
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium	Higher	Medium	Higher
Pedestrian/Limited Mobility Accessibility (1)	Lower	Medium	Higher	Higher	Lower	Medium	Lower	Medium
Development Potential ⁽¹⁾	Medium	Medium	Higher	Medium	Medium	Medium	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Lower	Lower	Medium	Medium	Medium	Higher
Preserve and promote a healthy environmen	nt and economy by mi	nimizing adverse impo	acts on the natural, buil	lt and social environ	ments through sustaina	ıble practices.		
Historic Properties/Landmarks ⁽²⁾	5	7	3	3	3	2	3	3
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	0.2	1	0.9	0.9	4.2	3.9	4.2	3.9
Water Resource Effects (acres)	0.7	0.6	0	0	0.7	0	0.4	0
Fish and Wildlife Habitat Effects (acres)	11	11	0.5	0.5	1	11.4	1	0.5
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12
Visual Effects	Medium	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Lower	Medium	Higher	Higher	Higher	Higher
Potentially Affected Properties	Medium	Lower	Lower	Higher	Higher	Higher	Higher	Higher
Residential Unit Displacements	Higher	Lower	Lower	Medium	Medium	Higher	Medium	Higher
Square Feet of Business Displacements	Medium	Medium	Medium	Higher	Medium	Higher	Medium	Lower
Construction Impacts	Lower	Medium	Lower	Medium	Higher	Higher	Higher	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	Higher	Medium	Higher
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	Medium	Higher	Medium	Medium
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium
(4) \\((4) \)								

⁽¹⁾ Within station walksheds and/or defined buffer of alignment

Central Interbay/

Medium Performing

Interbay/Ballard
Level 2 alternatives evaluation – Part 2 of 2

⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	Project	15th/Fixed Bridge/ 15th	17th	15th	Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Fixed Bridge/14th	Tunnel/15th
Encourage equitable and sustainable urban	growth in station area	s through support of	transit-oriented develo	pment, station acces	ss, and modal integrati	ion in a manner that i	s consistent with local	land use plans and
policies.								
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Activity Nodes Served (1)	26	32	36	33	24	23	24	35
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium Far	ther from cente	Medium	Higher
Pedestrian/Limited Mobility Accessibility (1)	Lower	Medium	Higher	Higher	Lower	f Urban Village	Lower	Medium
Development Potential ⁽¹⁾	Medium	Medium	Higher	Medium	Mediun	Mediami	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Lower	Lower	Medium	Medium	Medium	Higher
Preserve and promote a healthy environmen	nt and economy by mir	nimizing adverse impo	acts on the natural, bui	lt and social environi	ments through sustain	able practices.		
Historic Properties/Landmarks (2)	5	7	3	3	3	2	3	3
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	0.2	1	0.9	0.9	4.2	3.9	4.2	3.9
Water Resource Effects (acres)	0.7	0.6	0	0	0.7	0	0.4	0
Fish and Wildlife Habitat Effects (acres)	11	11	0.5	0.5	1	11.4	1	0.5
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12
Visual Effects	Medium	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Lower	Medium	Higher	Higher	Higher	Higher
Potentially Affected Properties	Medium	Lower	Lower	Higher	Higher	Higher	Higher	Higher
Residential Unit Displacements	Higher	Lower	Lower	Medium	Medium	Higher	Medium	Higher
Square Feet of Business Displacements	Medium	Medium	Medium	Higher	Medium	Higher	Medium	Lower
Construction Impacts	Lower	Medium	Lower	Medium	Higher	Higher	Higher	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	Higher	Medium	Higher
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	Medium	Higher	Medium	Medium
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium
(1) Within station walksheds and/or defined buffer of al	ignment						Medium	

Central Interbay/

Performing

Higher Performing





⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th		
Encourage equitable and sustainable urban	growth in station area	as through support of	transit-oriented develo	pment, station acce	ss, and modal integrati	on in a manner that is	s consistent with local	land use plans and		
policies.										
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium		
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Activity Nodes Served (1)	26	32	36	33	24	23	24	35		
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher		
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium	Higher	Medium	Higher		
Pedestrian/Limited Mobility Accessibility (1)	Lower	<u>Med</u> ium	Higher	Higher	Lower	Medium	Lower	Medium		
Development Potential ⁽¹⁾	Bridge col	umns ium	Higher	Medium	Medium	Bridge columns	Medium	Medium		
Equitable Development Opportunities	in water	nor	Lower	Lower	Medium		Medium	Higher		
Preserve and promote a healthy environmen	nt an	verse impo	acts on the natural, bui	lt and social environ	ments through sus	in waterway				
Historic Properties/Landmarks (2)		7	3	3	3	2	3	3		
Potential for Effects to Archaeological Resources (1)	er	pwer	Lower	Lower	Lower	Lower	Lower	Lower		
Parks and Recreational Resources Effects (acres)	0.2	1	0.9	0.9	4.2	3.9	4.2	3.9		
Water Resource Effects (acres)	0.7	0.6	0	0	0.7	0	0.4	0		
Fish and Wildlife Habitat Effects (acres)	11	11	0.5	0.5	1	11.4	1	0.5		
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12		
Visual Effects	Medium	Medium	Medium	Higher	Medium	Medium	Medium	Medium		
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Lower	Medium	Higher	Higher	Higher	Higher		
Potentially Affected Properties	Medium	Lower	Lower	Higher	Higher	Higher	Higher	Higher		
Residential Unit Displacements	Higher	Lower	Lower	Medium	Medium	Higher	Medium	Higher		
Square Feet of Business Displacements	Medium	Medium	Medium	Higher	Medium	Higher	Medium	Lower		
Construction Impacts	Lower	Medium	Lower	Medium	Higher	Higher	Higher	Medium		
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher		
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	Higher	Medium	Higher		
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	Medium	Higher	Medium	Medium		
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher		
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium		
(1) Within station walksheds and/or defined buffer of al	lianment									

⁽¹⁾ Within station walksheds and/or defined buffer of alignment

Medium

Performing

⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	ST3 Representative Project	15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Central Interbay/ Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th
Encourage equitable and sustainable urban	growth in station area	as through support of t	transit-oriented develo	pment, station access,	and modal integration	on in a manner that	is consistent with local	land use plans and
policies.								
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Activity Nodes Served (1)	26	32	36	33	24	23	24	35
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium	Higher	Medium	Higher
Pedestrian/Limited Mobility Accessibility (1)	Lower	Medium	Higher	Higher	Lower	Medium	Lower	Medium
Development Potential (1)	Medium	Medium	Higher	Medium	Medium	Medium	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Lower	Lower	Medium	Medium	Medium	Higher
Preserve and promote a healthy environmen	nt and economy by mi	nimizing adverse impa	acts on the natural, bui	lt and social environme	ents through sustaina	ble practices.		
Historic Properties/Landmarks ⁽²⁾	Flourated	and damen			3	2	3	3
Potential for Effects to Archaeological Resources (1)	Elevated		∟ Ballard	terminus/ water	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	(west sid		crossing	g location affects	4.2	3.9	4.2	3.9
Water Resource Effects (acres)	affects mo	re parcels	mor	e residences	0.7	0	0.4	0
Fish and Wildlife Habitat Effects (acres)	11			0.10010011000	1	11.4	1	0.5
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12
Visual Effects	Medium	edium	Mediu	Higher	Medium	Medium	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Low	Medium	Higher	Higher	Higher	Higher
Potentially Affected Properties	Medium	Lower	Lower	Higher	Higher	Higher	Higher	Higher
Residential Unit Displacements	Higher	Lower	Lower	Medium	Medium	Higher	Medium	Higher
Square Feet of Business Displacements	Medium	Medium	Medium	Higher	Medium	Higher	Medium	Lower
Construction Impacts	Lower	Medium	Lower	Medium	Higher	Higher	Higher	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	Higher	Medium	Higher
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	Medium	Higher	Medium	Medium
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium
(1) Within station walksheds and/or defined huffer of ali	ignment							

⁽¹⁾ Within station walksheds and/or defined buffer of alignment





Medium

Performing

= Key Differentiators

⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	Project	15th	17th	15th	Movable Bridge/ 14th	Tunnel/14th	Fixed Bridge/14th	Tunnel/15th			
Encourage equitable and sustainable urban	Encourage equitable and sustainable urban growth in station areas through support of transit-oriented development, station access, and modal integration in a manner that is consistent with local land use plans and										
policies.											
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium			
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Activity Nodes Served (1)	26	32	36	33	24	23	24	35			
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher			
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium	Higher	Medium	Higher			
Pedestrian/Limited Mobility Accessibility (1)	Lower	Medium	Higher	Higher	Lower	Medium	Lower	Medium			
Development Potential (1)	Medium	Medium	Higher	Medium	Medium	Medium	Medium	Medium			
Equitable Development Opportunities	Lower	Higher	Lower	Lower	Medium	Medium	Medium	Higher			
Preserve and promote a healthy environmen	nt and economy by mi	nimizing adverse impa	acts on the natural, bui	lt and social environi	ments through sustaina	ble practices.					
Historic Properties/Landmarks (2)	5	7	3		3	2	3				
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower			
Parks and Recreational Resources Effects (acres)	0.2	1	0.9	0.9	4.2	3.9	4.2	3.9			
Water Resource Effects (acres)	0.7	0.6	0	0	0.7	0	0.4	0			
Fish and Wildlife Habitat Effects (acres)	11	11	0.5	0.5	1	11.4	1	0.5			
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12			
Visual Effects	Medium	Medium	Medium	Higher	Medium	Medium	Medium	Medium			
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Lower	Medium	Higher	Higher	Higher	Higher			
Potentially Affected Properties	Medium	Le More e	effect on traffic,	Higher	Higher	Higher	Higher	Higher			
Residential Unit Displacements	Higher	1	and navigation	Medium	Medium	Higher	Medium	Higher			
Square Feet of Business Displacements	Medium	Memoria	and navigation	Higher	Medium	Higher	Medium	Lower			
Construction Impacts	Lower	M	Lower	Medium	Higher	Higher	Higher	Medium			
Burden on Low-Income/Minority	Higher		Higher	Higher	Higher	Higher	Higher	Higher			
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	Higher	Medium	Higher			
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	Medium	Higher	Medium	Medium			
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher			
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium			
(1) Within station walksheds and/or defined buffer of al	ignment						Medium				

20th/Tunnel/

Central Interbay/

Performing

Central Interbay

Higher Performing

Central Interbay/



ST3 Representative 15th/Fixed Bridge/



⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	ST3 Representative Project	15th/Fixed Bridge/ 15th	20th/Fixed Bridge/ 17th	20th/Tunnel/ 15th	Movable Bridge/ 14th	Armory Way/ Tunnel/14th	Central Interbay/ Fixed Bridge/14th	Central Interbay/ Tunnel/15th
Encourage equitable and sustainable urban	growth in station area	as through support of	transit-oriented develo	pment, station acce	ss, and modal integrati	on in a manner that	is consistent with local	land use plans and
policies.								
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	Lower	Lower	Medium
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Activity Nodes Served (1)	26	32	36	33	24	23	24	35
Passenger Transfers	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Bus/Rail and Rail/Rail Integration (1)	Higher	Medium	Medium	Higher	Higher	Higher	Higher	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Medium	Higher	Medium	Higher
Pedestrian/Limited Mobility Accessibility (1)	Lower	Medium	Higher	Higher	Lower	Medium	Lower	Medium
Development Potential (1)	Medium	Medium	Higher	Medium	Medium	Medium	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Lower	Lower	Medium	Medium	Medium	Higher
Preserve and promote a healthy environmen	nt and economy by mi	nimizing adverse impo	acts on the natural, bui	lt and social environ	ments through sustain	able practices.		
Historic Properties/Landmarks ⁽²⁾	5	7	3	3	3	2	3	3
Potential for Effects to Archaeological Resources (1	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	0.2	1	0.9	0.9	4.2	3.9	4.2	3.9
Water Resource Effects (acres)	0.7	0.6	0	0	0.7	0	0.4	0
Fish and Wildlife Habitat Effects (acres)	11	11	0.5	0.5	1	11.4	1	0.5
Hazardous Material Sites (2)	11	15	11	11	16	12	16	12
Visual Effects	Medium	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Higher	Higher	Lower	Medium	Higher	Higher	Higher	Higher
Potentially Affected Properties	Medium	Lower	Lower	Higher	Higher	Higher	Higher	Higher
Residential Unit Displacements	Morob	vuoinoso.	Lower	Medium	Medium	Higher	Medium	Higher
Square Feet of Business Displacements	IV	ousiness,	Medium	Higher	Mediur	Less business	ledium	Lower
Construction Impacts	comme	rce effects	Lower	Medium	Higher		Higher	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	ommerce effec	Higher	Higher
Traffic Circulation and Access Effects	Lower	Medium	Medium	Higher	Medium	High	Medium	Higher
Effects on Existing Transportation Facilities	Medium	Higher	Lower	Medium	M	Higher	Me m	Medium
Effects on Freight Movement	Lower	Medium	Medium	Medium	Medium	Higher	Medium	Higher
Business and Commerce Effects	Lower	Lower	Medium	Higher	Medium	Higher	Medium	Medium
(1) Within station walksheds and/or defined buffer of a (2) On properties that overlap with the project footprint						Lower Performing	Medium Performing	Higher Performing

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer						
Provide high quality rapid, reliable, and efficient peak	and off-peak light rail transit service to	communities in the project corridors de	efined in ST3.							
Potential Service Interruptions	Higher	Higher	Higher	Higher						
Travel Times (minutes)	8 to 9	8 to 9	8 to 9	8 to 9						
Improve regional mobility by increasing connectivity a	and capacity through downtown Seattle	to meet projected transit demand.								
Network Integration	Medium	Medium	Medium	Medium						
Passenger Carrying Capacity	Medium	Medium	Medium	Medium						
Ridership Potential (2040 pop/emp) (1)	167,800	163,300	176,700	176,700						
Connect regional centers as described in adopted region	onal and local land use, transportation,	and economic development plans and	Sound Transit's Long-Range Plan.							
Regional Growth Centers Served	3	3	3	3						
Manufacturing/Industrial Centers Served	N/A ⁽³⁾	N/A	N/A	N/A						
Accommodates Future LRT Extension	Medium	Medium	Medium	Medium						
Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.										
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher						
Potential ST3 Schedule Effects	Higher	Higher	Higher	Higher						
Potential ST3 Operating Plan Effects	Higher	Higher	Higher	Higher						
Engineering Constraints	Lower	Lower	Medium	Lower						
Constructability Issues	Lower	Lower	Lower	Lower						
Operational Constraints	Medium	Medium	Higher	Medium						
Conceptual Capital Cost Comparison		\$200M increase	Similar	\$200M increase						
Operating Cost Impacts	Medium	Medium	Medium	Medium						
Expand mobility for the corridor and region's residents	s, which include transit dependent, low i	income, and minority populations.								
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium						
(activity nodes/subsidized rental units) (1)	27%	29%	24%	26%						
Low-Income Population (1/2)	28% / 30%	29% / 30%	28% / 30%	28% / 30%						
Minority Population (1/2)	36% / 36%	36% / 36%	34% / 36%	35% / 36%						
Youth Population (1/2)	4% / 4%	4% / 4%	4% / 4%	4% / 4%						
Elderly Population (1/2)	14% / 13%	14% / 13%	15% / 13%	14% / 13%						
Limited English Proficiency Population (1/2)	5% / 5%	5% / 5%	5% / 5%	5% / 5%						
Disabled Population (1/2)	12% / 12%	12% / 12%	12% / 12%	12% / 12%						

⁽¹⁾ Within station walksheds

Medium Performing



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer
Provide high quality rapid, reliable, and efficient peak	and off-peak light rail transit service to	communities in the project corridors d	efined in ST3.	
Potential Service Interruptions	Higher	Higher	Higher	Higher
Travel Times (minutes)	8 to 9	8 to 9	8 to 9	8 to 9
Improve regional mobility by increasing connectivity a	nd capacity through downtown Seattle	to meet projected transit demand.		
Network Integration	Medium	Medium	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Medium	Medium
Ridership Potential (2040 pop/emp) (1)	167,800	163,300	176,700	176,700
Connect regional centers as described in adopted region	onal and local land use, transportation,	and economic development plans an	Council Transition Lance Description	
Regional Growth Centers Served	3	3	Avoids building foundation	3
Manufacturing/Industrial Centers Served	N/A ⁽³⁾	Engineering		N/A
Accommodates Future LRT Extension	Medium		tie-backs on 5 th Ave but	Medium
Implement a system that is consistent with the ST3 Pla	ın that established transit mode, corri	challenges with tunneling under Key	more constrained Denny station on Boren	to build, operate, and maintain.
Mode, Route and Stations per ST3	Higher	Arena	ctation on Boron	Higher
Potential ST3 Schedule Effects	Higher		Higher	Higher
Potential ST3 Operating Plan Effects	Higher	Higher	Higher	Higher
Engineering Constraints	Lower	Lower	Medium	Lower
Constructability Issues	Lower	Lower	Lower	Lower
Operational Constraints	Medium	Medium	Higher	Medium
Conceptual Capital Cost Comparison		\$200M increase	Similar	\$200M increase
Operating Cost Impacts	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's residents	s, which include transit dependent, low	income, and minority populations.		
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium
(activity nodes/subsidized rental units) (1)	27%	29%	24%	26%
Low-Income Population (1/2)	28% / 30%	29% / 30%	28% / 30%	28% / 30%
Minority Population (1/2)	36% / 36%	36% / 36%	34% / 36%	35% / 36%
Youth Population (1/2)	4% / 4%	4% / 4%	4% / 4%	4% / 4%
Elderly Population (1/2)	14% / 13%	14% / 13%	15% / 13%	14% / 13%
Limited English Proficiency Population (1/2)	5% / 5%	5% / 5%	5% / 5%	5% / 5%
Disabled Population (1/2)	12% / 12%	12% / 12%	12% / 12%	12% / 12%

⁽¹⁾ Within station walksheds

Medium Performing Higher Performing





⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer						
Provide high quality rapid, reliable, and efficient peak and off-peak light rail transit service to communities in the project corridors defined in ST3.										
Potential Service Interruptions	Higher	Higher	Higher	Higher						
Travel Times (minutes)	8 to 9	8 to 9	8 to 9	8 to 9						
Improve regional mobility by increasing connectivity a	nd capacity through downtown Seattle	to meet projected transit demand.								
Network Integration	Medium	Medium	Medium	Medium						
Passenger Carrying Capacity	Medium	Medium	Medium	Medium						
Ridership Potential (2040 pop/emp) (1)	167,800	163,300	176,700	176,700						
Connect regional centers as described in adopted regional and local land use, transportation, and economic development plans and Sound Transit's Long-Range Plan.										
Regional Growth Centers Served	3	3	3	3						
Manufacturing/Industrial Centers Served	N/A ⁽³⁾	N/A	N/A	N/A						
Accommodates Future LRT Extension	Medium	Medium	Medium	Medium						
Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.										
Mode, Route and Stations per ST3	Higher	Higher		Higher						
Potential ST3 Schedule Effects	Higher	Higher Hic	gher cost alternatives	Higher						
Potential ST3 Operating Plan Effects	Higher	Higher		Higher						
Engineering Constraints	Lower	Lower	Mean	Lower						
Constructability Issues	Lower	Lower	Lower	Lower						
Operational Constraints	Medium	Medium	Higher	Medium						
Conceptual Capital Cost Comparison		\$200M increase	Similar	\$200M increase						
Operating Cost Impacts	Medium	Medium	Medium	Medium						
Expand mobility for the corridor and region's residents	s, which include transit dependent, low	income, and minority populations.								
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium						
(activity nodes/subsidized rental units) (1)	27%	29%	24%	26%						
Low-Income Population (1/2)	28% / 30%	29% / 30%	28% / 30%	28% / 30%						
Minority Population (1/2)	36% / 36%	36% / 36%	34% / 36%	35% / 36%						
Youth Population (1/2)	4% / 4%	4% / 4%	4% / 4%	4% / 4%						
Elderly Population (1/2)	14% / 13%	14% / 13%	15% / 13%	14% / 13%						
Limited English Proficiency Population (1/2)	5% / 5%	5% / 5%	5% / 5%	5% / 5%						
Disabled Population (1/2)	12% / 12%	12% / 12%	12% / 12%	12% / 12%						

⁽¹⁾ Within station walksheds

Medium Performing Higher Performing





⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer	
Encourage equitable and sustainable urban growth in	n station areas through support of tran	sit-oriented development, station acce	ess, and modal integration in a manne	r that is consistent with local land use	
plans and policies.					
Compatibility with Urban Centers/Villages (1)	Higher	Higher	Higher	Higher	
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	
Activity Nodes Served (1)	171	171	169	168	
Passenger Transfers	Lower	Medium	Medium	Medium	
Bus/Rail and Rail/Rail Integration (1)	Lower	Medium	Lower	Medium	
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	
Pedestrian/Limited Mobility Accessibility (1)	Higher	Higher	Higher	Higher	
Development Potential (1)	Medium	Medium	Medium	Medium	
Equitable Development Opportunities	Lower	Higher	Medium	Medium	
Preserve and promote a healthy environment and ec	onomy by minimizing adverse impacts	on the natural, built and social environ	ments through sustainable practices.		
Historic Properties/Landmarks ⁽²⁾	31	35	23	34	
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	
Parks and Recreational Resources Effects (acres)	0	0	1.1	0	
Water Resources Effects (acres)	0	0	0	0	
Fish and Wildlife Habitat Effects (acres)	0	0	1.1	0	
Hazardous Material Sites (2)	18	12	23	18	
Visual Effects	Higher	Higher	Medium	Higher	
Noise and Vibration Sensitive Receivers (1)	Higher	Medium	Medium	Higher	
Potentially Affected Properties	Medium	Medium	Medium	Medium	
Residential Unit Displacements	Medium	Higher	Lower	Lower	
Square Feet of Business Displacements	Higher	Lower	Higher	Higher	
Construction Impacts	Medium	Lower	Medium	Higher	
Burden on Low-Income/Minority	Medium	Medium	Medium	Medium	
Traffic Circulation and Access Effects	Higher	Higher	Higher	Higher	
Effects to Existing Transportation Facilities	Medium	Lower	Higher	Medium	
Effects to Freight Movement	Higher	Higher	Higher	Higher	
Business and Commerce Effects	Higher	Lower	Medium	Medium	

(1) Within station walksheds and/or defined buffer of alignment (2) On properties that overlap with the project footprint

Lower Performing

Medium Performing Higher Performing

Downtown

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer
Encourage equitable and sustainable urban growth in	station areas through support of tra	nsit-oriented develonment, station acce	1 11 11 11 11	hat is consistent with local land use
plans and policies.		Better bus/rail integration	Lower bus/rail integration	
Compatibility with Urban Centers/Villages (1)	Higher	opportunity at SLU	opportunity at Seattle	Higher
Station Land Use Plan Consistency	Higher		Center station on Roy	Higher
Activity Nodes Served (1)	171	station on Harrison	- Control Station Children	168
Passenger Transfers	Lower	Medium	Mediu	Medium
Bus/Rail and Rail/Rail Integration (1)	Lower	Medium	Lower	Medium
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Higher	Higher	Higher	Higher
Development Potential (1)	Medium	Medium	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Medium	Medium
Preserve and promote a healthy environment and eco	onomy by minimizing adverse impacts	on the natural, built and social environ	ments through sustainable practices.	
Historic Properties/Landmarks (2)	31	35	23	34
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	0	0	1.1	0
Water Resources Effects (acres)	0	0	0	0
Fish and Wildlife Habitat Effects (acres)	0	0	1.1	0
Hazardous Material Sites (2)	18	12	23	18
Visual Effects	Higher	Higher	Medium	Higher
Noise and Vibration Sensitive Receivers (1)	Higher	Medium	Medium	Higher
Potentially Affected Properties	Medium	Medium	Medium	Medium
Residential Unit Displacements	Medium	Higher	Lower	Lower
Square Feet of Business Displacements	Higher	Lower	Higher	Higher
Construction Impacts	Medium	Lower	Medium	Higher
Burden on Low-Income/Minority	Medium	Medium	Medium	Medium
Traffic Circulation and Access Effects	Higher	Higher	Higher	Higher
Effects to Existing Transportation Facilities	Medium	Lower	Higher	Medium
Effects to Freight Movement	Higher	Higher	Higher	Higher
Business and Commerce Effects	Higher	Lower	Medium	Medium

⁽¹⁾ Within station walksheds and/or defined buffer of alignment

Medium Performing

Higher Performing





⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	ST3 Representative Project	5th/Harrison	6th/Boren/Roy	5th/Terry/Roy/Mercer
Encourage equitable and sustainable urban growth in	station areas through support of tra	nsit-oriented development, station access,	and modal integration in a manner	that is consistent with local land use
plans and policies.				
Compatibility with Urban Centers/Villages (1)	Higher	Higher	Higher	Higher
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher
Activity Nodes Served (1)	171	171	169	168
Passenger Transfers	Lower	Medium	Medium	Medium
Bus/Rail and Rail/Rail Integration (1)	Lower	Medium	Lower	Medium
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Higher	Higher	Higher	Higher
Development Potential ⁽¹⁾	Medium	Medium	Medium	Medium
Equitable Development Opportunities	Lower	Higher	Medium	Medium
Preserve and promote a healthy environment and eco	nomy by minimizing adverse impact	s on the natural, built and social environme	ents through sustainable practices.	
Historic Properties/Landmarks ⁽²⁾	31	35	23	34
Potential for Effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	0	0	1.1	0
Water Resources Effects (acres)	0	0	0	0
Fish and Wildlife Habitat Effects (acres)	0	Property effects due to tunnel	1.1	0
Hazardous Material Sites (2)	18		23	18
Visual Effects	Higher	portal location on Harrison	Medium	Higher
Noise and Vibration Sensitive Receivers (1)	Higher	ledium	Medium	Higher
Potentially Affected Properties	Medium	Medium	Medium	Medium
Residential Unit Displacements	Medium	Higher	Lower	Lower
Square Feet of Business Displacements	Higher	Lower	Higher	Higher
Construction Impacts	Medium	Lower	Medium	Higher
Burden on Low-Income/Minority	Medium	Medium	Medium	Medium
Traffic Circulation and Access Effects	Higher	Higher	Higher	Higher
Effects to Existing Transportation Facilities	Medium	Lower	Higher	Medium
Effects to Freight Movement	Higher	Higher	Higher	Higher
Business and Commerce Effects	Higher	Lower	Medium	Medium

Downtown

(1) Within station walksheds and/or defined buffer of alignment

(2) On properties that overlap with the project footprint



Medium

Performing

Lower Performing

= Key Differentiators

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Surface E-3	4th Avenue Cut-and- Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue
Provide high quality rapid, reliable, and efficie			communities in the proje		5T3.		
Potential Service Interruptions	Lower	Medium	Higher	Lower	Lower	Medium	Higher
Travel Times (minutes)	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Improve regional mobility by increasing conne							
Network Integration	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Ridership Potential (2040 pop/emp) (1)	35,900	35,900	35,900	35,300	35,300	35,900	37,100
Connect regional centers as described in adop		and use, transportation, a	and economic developm	ent plans and Sound Tro	nsit's Long-Range Plan.		
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A	N/A	N/A
Manufacturing/Industrial Centers Served	1	1	1	1	1	1	1
Accommodates Future LRT Extension	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Implement a system that is consistent with th	e ST3 Plan that establish	ned transit mode, corrido	r, and station locations	and that is technically fe	asible and financially su	stainable to build, operat	e, and maintain.
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Medium
Potential ST3 Schedule Effects	Higher	Higher	Higher	Lower	Lower	Medium	Higher
Potential ST3 Operating Plan Effects	Medium	Medium	Higher	Higher	Lower	Medium	Higher
Engineering Constraints	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Constructability Issues	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Operational Constraints	Medium	Medium	Higher	Medium	Lower	Medium	Medium
Conceptual Capital Cost Comparison	-	\$200M decrease	\$400M decrease	\$600M increase	\$500M increase	Similar	Similar (+ \$200M in SODO)
Operating Cost Impacts	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's	residents, which include	transit dependent, low i	ncome, and minority po	pulations.			
Opportunities for Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher
(activity nodes/subsidized rental units) (1)	80%	80%	80%	75%	75%	80%	73%
Low-Income Population (1/2)	59% / 49%	59% / 49%	59% / 49%	57% / 49%	57% / 49%	59% / 49%	58% / 49%
Minority Population (1/2)	65% / 54%	65% / 54%	65% / 54%	63% / 54%	63% / 54%	65% / 54%	65% / 53%
Youth Population (1/2)	7% / 7%	7% / 7%	7% / 7%	6% / 7%	6% / 7%	7% / 7%	7% / 8%
Elderly Population (1/2)	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%
Limited English Proficiency Population (1/2)	30% / 19%	30% / 19%	30% / 19%	28% / 19%	28% / 19%	30% / 19%	30% / 18%
Disabled Population (1/2)	24% / 19%	24% / 19%	24% / 19%	25% / 19%	25% / 19%	24% / 19%	24% / 19%
(1) Within station walksheds				·			

⁽¹⁾ Within station walksheds

Medium Performing Higher Performing

SODO and Chinatown-ID

Level 2 alternatives evaluation – Part 1 of 2

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	Project	Portal	Surface E-3	Cover C-ID	4th Avenue Mined C-ID 5th Avenue Mined C-ID		Occidental Avenue
Provide high quality rapid, reliable, and effici		ght rail transit service to o	communities in the proj	ect corridors defined in S	ST3.		
Potential Service Interruptions	Lower	Medium	Higher	Lower	Lower	Medium	Higher
Travel Times (minutes)	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Improve regional mobility by increasing conn	ectivity and capacity thr	ough downtown Seattle t	to meet projected trai				
Network Integration	Medium	Medium	Higher	New grade-sepa	arated roadway	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Medium	crossings (Lar		Medium	Medium
Ridership Potential (2040 pop/emp) (1)	35,900	35,900	35,900			35,900	37,100
Connect regional centers as described in adop	oted regional and local l	and use, transportation, a	and economic develor	improve existing	rail/traffic/ freight		
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	opera	tions	N/A	N/A
Manufacturing/Industrial Centers Served	1	1	1			1	1
Accommodates Future LRT Extension	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Implement a system that is consistent with th	ne ST3 Plan that establish	hed transit mode, corrido	r, and station locations	and that is technically fe	easible and financially sus	stainable to build, operat	e, and maintain.
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Medium
Potential ST3 Schedule Effects	Higher	Higher	Higher	Lower	Lower	Medium	Higher
Potential ST3 Operating Plan Effects	Medium	Medium	Higher	Higher	Lower	Medium	Higher
Engineering Constraints	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Constructability Issues	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Operational Constraints	Medium	Medium	Higher	Medium	Lower	Medium	Medium
Conceptual Capital Cost Comparison	-	\$200M decrease	\$400M decrease	\$600M increase	\$500M increase	Similar	Similar (+ \$200M in SODO)
Operating Cost Impacts	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's	residents, which include	transit dependent, low i	ncome, and minority po	pulations.			
Opportunities for Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher
(activity nodes/subsidized rental units) (1)	80%	80%	80%	75%	75%	80%	73%
Low-Income Population (1/2)	59% / 49%	59% / 49%	59% / 49%	57% / 49%	57% / 49%	59% / 49%	58% / 49%
Minority Population (1/2)	65% / 54%	65% / 54%	65% / 54%	63% / 54%	63% / 54%	65% / 54%	65% / 53%
Youth Population (1/2)	7% / 7%	7% / 7%	7% / 7%	6% / 7%	6% / 7%	7% / 7%	7% / 8%
Elderly Population (1/2)	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%
Limited English Proficiency Population (1/2)	30% / 19%	30% / 19%	30% / 19%	28% / 19%	28% / 19%	30% / 19%	30% / 18%
Disabled Population (1/2)	24% / 19%	24% / 19%	24% / 19%	25% / 19%	25% / 19%	24% / 19%	24% / 19%
(1) Within station walksheds	·	·	·	·			

Within station walksheds

Medium Performing Higher Performing

SODO and Chinatown-ID



= Key Differentiators

Level 2 alternatives evaluation – *Potential Service Interruptions*

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Surface E-3	4th Avenue Cut-and- Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue
Provide high quality rapid, reliable, and efficie			communities in the proje		T3.		
Potential Service Interruptions	Lower	Medium	Higher	Lower	Lower	Medium	Higher
Travel Times (minutes)	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Improve regional mobility by increasing conne					3 10 1	3 to .	3 10 1
Network Integration	Medium	Medium	Highor	Madium	Medium	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Requires 3rd	party funding for	Medium	Medium	Medium
Ridership Potential (2040 pop/emp) (1)	35,900	35,900			35,300	35,900	37,100
Connect regional centers as described in adop	ted regional and local lo	and use, transportation,	ana a	4 th Ave viaduct;	it's Long-Range Plan.		·
Regional Growth Centers Served	N/A ⁽³⁾	N/A	engineering	g/constructability	N/A	N/A	N/A
Manufacturing/Industrial Centers Served	1	1	issues and p	otential schedule	1	1	1
Accommodates Future LRT Extension	Medium	Medium		delay	Medium	Medium	Medium
Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, an					ble and financially su	stainable to build, operat	e, and maintain.
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Medium
Potential ST3 Schedule Effects	Higher	Higher	Higher	Lower	Lower	Medium	Higher
Potential ST3 Operating Plan Effects	Medium	Medium	Higher	Higher	Lower	Medium	Higher
Engineering Constraints	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Constructability Issues	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Operational Constraints	Medium	Medium	Higher	Medium	Lower	Medium	Medium
Conceptual Capital Cost Comparison	-	\$200M decrease	\$400M decrease	\$600M increase	\$500M increase	Similar	Similar (+ \$200M in SODO)
Operating Cost Impacts	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's	residents, which include	transit dependent, low i	ncome, and minority pop	oulations.			
Opportunities for Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher
(activity nodes/subsidized rental units) (1)	80%	80%	80%	75%	75%	80%	73%
Low-Income Population (1/2)	59% / 49%	59% / 49%	59% / 49%	57% / 49%	57% / 49%	59% / 49%	58% / 49%
Minority Population (1/2)	65% / 54%	65% / 54%	65% / 54%	63% / 54%	63% / 54%	65% / 54%	65% / 53%
Youth Population (1/2)	7% / 7%	7% / 7%	7% / 7%	6% / 7%	6% / 7%	7% / 7%	7% / 8%
Elderly Population (1/2)	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%
Limited English Proficiency Population (1/2)	30% / 19%	30% / 19%	30% / 19%	28% / 19%	28% / 19%	30% / 19%	30% / 18%
Disabled Population (1/2)	24% / 19%	24% / 19%	24% / 19%	25% / 19%	25% / 19%	24% / 19%	24% / 19%
(1) Within station walksheds							

Medium Performing **Higher Performing**

SODO and Chinatown-ID



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Surface E-3	4th Avenue Cut-and- Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue
Provide high quality rapid, reliable, and effici	ent peak and off-peak lig	ght rail transit service to	communities in the proje	ect corridors defined in .	ST3.		
Potential Service Interruptions	Lower	Medium	Higher	Lower	Lower	Medium	Higher
Travel Times (minutes)	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Improve regional mobility by increasing conn	ectivity and capacity thr	ough downtown Seattle	to meet projected transi	t demand.			
Network Integration	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Ridership Potential (2040 pop/emp) (1)	35,900	35,900	lajor engineering/c	constructability	35,300	35,900	37,100
Connect regional centers as described in ado	oted regional and local lo	and use, transporta			ansit's Long-Range Plan.		
Regional Growth Centers Served	N/A ⁽³⁾	N/A	constraints (4th A		N/A	N/A	quirec long
Manufacturing/Industrial Centers Served	1	1	ebuild, adjacent to	active BNSF	1		quires long-
Accommodates Future LRT Extension	Medium	Medium	railway, proximity/	disruption to	Medium		an structures
Implement a system that is consistent with th	ne ST3 Plan that establish	ned transit mode, c	existing transit tunnel, etc.)		easible and financially su	stainable to buil OVE	BNSF tracks
Mode, Route and Stations per ST3	Higher	Higher	existing transit to	aririer, etc.)	Higher	Higher	IVN
Potential ST3 Schedule Effects	Higher	Higher	Higher	Ver	Lower	Medium	Hig
Potential ST3 Operating Plan Effects	Medium	Medium	Higher	digher	Lower	Medium	Higher
Engineering Constraints	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Constructability Issues	Medium	Medium	Medium	Lower	Lower	Medium	Lower
Operational Constraints	Medium	Medium	Higher	Medium	Lower	Medium	Medium
Conceptual Capital Cost Comparison	-	\$200M decrease	\$400M decrease	\$600M increase	\$500M increase	Similar	Similar (+ \$200M in SODO)
Operating Cost Impacts	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's	residents, which include	transit dependent, low	income, and minority po	oulations.			
Opportunities for Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher
(activity nodes/subsidized rental units) (1)	80%	80%	80%	75%	75%	80%	73%
Low-Income Population (1/2)	59% / 49%	59% / 49%	59% / 49%	57% / 49%	57% / 49%	59% / 49%	58% / 49%
Minority Population (1/2)	65% / 54%	65% / 54%	65% / 54%	63% / 54%	63% / 54%	65% / 54%	65% / 53%
Youth Population (1/2)	7% / 7%	7% / 7%	7% / 7%	6% / 7%	6% / 7%	7% / 7%	7% / 8%
Elderly Population (1/2)	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%
Limited English Proficiency Population (1/2)	30% / 19%	30% / 19%	30% / 19%	28% / 19%	28% / 19%	30% / 19%	30% / 18%
Disabled Population (1/2)	24% / 19%	24% / 19%	24% / 19%	25% / 19%	25% / 19%	24% / 19%	24% / 19%
(1) Within station walksheds	it					Modium	

Performing

Higher Performing





⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Surface E-3	4th Avenue Cut-and- Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue
Provide high quality rapid, reliable, and efficie	ent peak and off-peak lig	ght rail transit service to	communities in the proj	ect corridors defined in S	ST3.		
Potential Service Interruptions	Lower	Medium	Higher	Lower	Lower	Medium	Higher
Travel Times (minutes)	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4	3 to 4
Improve regional mobility by increasing conne	ectivity and capacity thr	ough downtown Seattle	to meet projected trans	it demand.			
Network Integration	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Ridership Potential (2040 pop/emp) (1)	35,900	35,900	35,900	35,300	35,300	35,900	37,100
Connect regional centers as described in adop	ited regional and local lo	and use, transportation,	and economic developn	nent plans and Sound Tro	ansit's Long-Range Plan.		
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A	N/A	N/A
Manufacturing/Industrial Centers Served	1	1	1	1	1	1	1
Accommodates Future LRT Extension	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Implement a system that is consistent with the	e ST3 Plan that establish	ned transit mode, corrido	r, and station locations	and that is technically fe	asible and financially su	stainable to build, operat	e, and maintain.
Mode, Route and Stations per ST3	Higher	Higher	Higher	Higher	Higher	Higher	Medium
Potential ST3 Schedule Effects	Higher	Higher	Higher	Lower	Lower	Mediur	ghest cost
Potential ST3 Operating Plan Effects	Medium	Medium	Higher	Highest cost (Chinatown-		
Engineering Constraints	Medium	Medium	Medium			Mediur	O alternative
Constructability Issues	Medium	Medium	Medium	ID altern	atives	Medium	Lower
Operational Constraints	Medium	Medium	Higher	Medium	Lower	Medium	Medium
Conceptual Capital Cost Comparison	-	\$200M decrease	\$400M decrease	\$600M increase	\$500M increase	Similar	Similar (+ \$200M in SODO)
Operating Cost Impacts	Medium	Medium	Higher	Medium	Medium	Medium	Medium
Expand mobility for the corridor and region's i	residents, which include	transit dependent, low i	ncome, and minority po	pulations.			
Opportunities for Low-Income/Minority	Higher	Higher	Higher	Higher	Higher	Higher	Higher
(activity nodes/subsidized rental units) (1)	80%	80%	80%	75%	75%	80%	73%
Low-Income Population (1/2)	59% / 49%	59% / 49%	59% / 49%	57% / 49%	57% / 49%	59% / 49%	58% / 49%
Minority Population (1/2)	65% / 54%	65% / 54%	65% / 54%	63% / 54%	63% / 54%	65% / 54%	65% / 53%
Youth Population (1/2)	7% / 7%	7% / 7%	7% / 7%	6% / 7%	6% / 7%	7% / 7%	7% / 8%
Elderly Population (1/2)	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%	20% / 19%
Limited English Proficiency Population (1/2)	30% / 19%	30% / 19%	30% / 19%	28% / 19%	28% / 19%	30% / 19%	30% / 18%
Disabled Population (1/2)	24% / 19%	24% / 19%	24% / 19%	25% / 19%	25% / 19%	24% / 19%	24% / 19%

Performing

Higher Performing

SODO and Chinatown-ID



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	Project	Portal	Surface E-3	Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue			
Encourage equitable and sustainable urban grow	th in station areas throu	igh support of transit-ori	ented development, st	ation access, and modal	integration in a manner	that is consistent with loc	al land use plans and			
policies.										
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Activity Nodes Served (1)	57	57	57	54	54	57	56			
Passenger Transfers	Higher	Medium	Medium	Medium	Lower	Lower	Medium			
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Bicycle Accessibility (1)	21%	21%	21%	21%	21%	21%	21%			
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Development Potential ⁽¹⁾	14%	14%	14%	13%	13%	14%	15%			
Equitable Development Opportunities	Lower	Medium	Lower	Medium	Lower	Medium	Higher			
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.										
Historic Properties/Landmarks (2)	3	2	3	5	2	3	3			
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower	Lower	Lower	Lower	Lower	Lower			
Parks and Recreational Resources Effects (acres)	0	0	0	0	0	0	0			
Water Resource Effects (acres)	0	0	0	0	0	0	0			
Fish and Wildlife Habitat Effects (acres)	0	0	0	0	0	0	0			
Hazardous Materials Sites (1)	4	9	4	5	9	9	6			
Visual Effects	Higher	Higher	Higher	Higher	Higher	Higher	Higher			
Noise and Vibration Sensitive Receivers (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Potentially Affected Properties	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Residential Unit Displacements	Medium	Medium	Medium	Medium	Medium	Medium	Medium			
Square Feet of Business Displacements	Higher	Lower	Higher	Lower	Higher	Lower	Lower			
Construction Impacts	Lower	Higher	Medium	Lower	Lower	Higher	Medium			
Burden on Low-Income/Minority	Medium	Medium	Medium	Lower	Lower	Higher	Medium			
Traffic Circulation and Access Effects	Medium	Higher	Medium	Lower	Medium	Higher	Medium			
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Lower	Lower	Higher	Medium			
Effects on Freight Movement	Medium	Higher	Medium	Lower	Lower	Higher	Lower			
Business and Commerce Effects	Medium	Medium	Medium	Medium	Medium	Higher	Lower			

Massachusetts Tunne

Level 2 alternatives evaluation - Part 2 of 2

(1) Within station walksheds and/or defined buffer of alignment

(2) On properties that overlap with the project footprint

Higher Performing

Medium

Performing

Lower Performing

SODO and Chinatown-ID

Evaluation Measures	Project	Portal	Surface E-3	Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue
Encourage equitable and sustainable urban grow	vth in station areas throu	igh support of transit-ori	ented development, s	tation access, and moda	ıl integration in a manner t	that is consistent with lo	cal land use plans and
policies.							
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Activity Nodes Served (1)	57	57	57	54	54	57	56
Passenger Transfers	Higher	Medium	Medium	Medium	Lower	Lower	Medium
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Bicycle Accessibility (1)	21%	21%	21%	21%	21%	21%	21%
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Development Potential (1)	14%	14%	14%	13%	13%	14%	15%
Equitable Development Opportunities	Lower	Medium	Lower	Mediur	200' deep mined sta	tions dium	Higher
Preserve and promote a healthy environment and	d economy by minimizing	g adverse impacts on the	natural, built and soc				
Historic Properties/Landmarks (2)	3	2	3		ovide relatively poor		3
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower	Lower		cess and ease of tra		Lower
Parks and Recreational Resources Effects (acres)	0	0	0	0 (a	lso results in ~250'	deep	0
Water Resource Effects (acres)	0	0	0	0	Midtown Station)		0
Fish and Wildlife Habitat Effects (acres)	0	0	0	0	· · · · · · · · · · · · · · · · · · ·	b	0
Hazardous Materials Sites (1)	4	9	4	5	9	9	6
Visual Effects	Higher	Higher	Higher	Higher	Higher	Higher	Higher
Noise and Vibration Sensitive Receivers (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Potentially Affected Properties	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Residential Unit Displacements	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Square Feet of Business Displacements	Higher	Lower	Higher	Lower	Higher	Lower	Lower
Construction Impacts	Lower	Higher	Medium	Lower	Lower	Higher	Medium
Burden on Low-Income/Minority	Medium	Medium	Medium	Lower	Lower	Higher	Medium
Traffic Circulation and Access Effects	Medium	Higher	Medium	Lower	Medium	Higher	Medium
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Lower	Lower	Higher	Medium
Effects on Freight Movement	Medium	Higher	Medium	Lower	Lower	Higher	Lower
Business and Commerce Effects	Medium	Medium	Medium	Medium	Medium	Higher	Lower
(1) Within station walksheds and/or defined buffer of alignment	nt					Madium	

(2) On properties that overlap with the project footprint

ST3 Representative

Massachusetts Tunne

= Key Differentiators

Medium

Performing

Lower Performing

SODO and Chinatown-ID

Evaluation Measures	Project	Portal	Surface E-3	Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue		
Encourage equitable and sustainable urban grow	vth in station areas throu	ugh support of transit-ori	ented development,	station access, and modal	integration in a manner	that is consistent with lo	cal land use plans and		
policies.									
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Activity Nodes Served (1)	57	57	57	54	54	57	56		
Passenger Transfers	Higher	Medium	Medium	Medium	Lower	Lower	Medium		
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Bicycle Accessibility (1)	21%	21%	21%	21%	21%	21%	21%		
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Development Potential (1)	14%	14%	14%	13%	13%	14%	15%		
Equitable Development Opportunities	Lower	Medium	Lower	Medium	Lower	Medium	Higher		
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.									
Historic Properties/Landmarks (2)	3	2	3	5	2	3	roperty effects		
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower	Lower	Dranauty officets	Lower		ong Occidental,		
Parks and Recreational Resources Effects (acres)	0	0	0	Property effects	Duon out y off				
Water Resource Effects (acres)	0	romanti calla ata	0	along 4 th Ave	Property eff		NSF crossings		
Fish and Wildlife Habitat Effects (acres)	~	roperty effects	0	(incl. King County	(tunnel port	al in) ar	nd maintenance		
Hazardous Materials Sites (1)	4 (ti	unnel portal in	4	Admin Building)	SODO)	fa	cility connection		
Visual Effects	Higher	SODO)	Higher	/tarriiri Dallallig/	Higher	ніgher			
Noise and Vibration Sensitive Receivers (1)	Medium -	W	Medium	Med	Medium	Medium	Me		
Potentially Affected Properties	Medium	Med	Medium	Med	Medium	Medium	M m		
Residential Unit Displacements	Medium	Medi	Medium	Medium	Medium	Medium	Mium		
Square Feet of Business Displacements	Higher	Lower	Higher	Lower	Higher	Lower	Lower		
Construction Impacts	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Burden on Low-Income/Minority	Medium	Medium	Medium	Lower	Lower	Higher	Medium		
Traffic Circulation and Access Effects	Medium	Higher	Medium	Lower	Medium	Higher	Medium		
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Effects on Freight Movement	Medium	Higher	Medium	Lower	Lower	Higher	Lower		
Business and Commerce Effects	Medium	Medium	Medium	Medium	Medium	Higher	Lower		

(1) Within station walksheds and/or defined buffer of alignment

(2) On properties that overlap with the project footprint

= Key Differentiators

Medium

Performing

Lower Performing

SODO and Chinatown-ID

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Surface E-3	4th Avenue Cut-and- Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue		
Encourage equitable and sustainable urban grow policies.	vth in station areas throu	ugh support of transit-orie	ented development, sto	ition access, and modal	integration in a manner	that is consistent with loo	al land use plans and		
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Activity Nodes Served (1)	57	57	57	54	54	57	56		
Passenger Transfers	Higher	Medium	Medium	Medium	Lower	Lower	Medium		
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Bicycle Accessibility (1)	21%	21%	21%	21%	21%	21%	21%		
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Development Potential (1)	14%	14%	14%	13%	13%	14%	15%		
Equitable Development Opportunities	Lower	Medium	Lower	Medium	Lower	Medium	Higher		
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.									
Historic Properties/Landmarks (2)	3	2	3	5	2	3	3		
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower	Lower	Lower	Lower	Lower	Lower		
Parks and Recreational Resources Effe	and-cover tunnel o	o Eth	Cut and	cover tupped on 4	0	0	0		
Water resource Effects (acres		U		cover tunnel on 4t		: 4th 0	0		
Fish and Wildlife Habitat Effects (AVE, p	periodic closures (8,500 0	Ave, p	eriodic closures		tation on 4 th Ave, f			
Hazardous Materials Sites (1) Ve	hicles/day), greate	er 9	(33,000	vehicles/day), less	s closure (33,000 vehicles/da	ay), 6		
Visual Effects noise	/vibration/visual ef	fects ligher		ration/visual effect		oise/vibration/visua	Higher		
Noise and Vibration Sensitive Rece	to Chinatown/ID	edium			N	s to Chinatown/ID	1 4 a aliaa		
Potentially Affected Propertie	to Chinatown/ID	edium	10 (Chinatown/ID	elleci	is to Chinatown/ID	Medium		
Residential Unit Displacements	Mediun	Medium	Medium	Me	Medium	Medium	Medium		
Square Feet of Business Displacements	Higher	Lower	Higher	Lo	Higher	Lower	Lower		
Construction Impacts	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Burden on Low-Income/Minority	Medium	Medium	Medium	Lower	Lower	Higher	Medium		
Traffic Circulation and Access Effects	Medium	Higher	Medium	Lower	Medium	Higher	Medium		
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Effects on Freight Movement	Medium	Higher	Medium	Lower	Lower	Higher	Lower		
Business and Commerce Effects	Medium	Medium	Medium	Medium	Medium	Higher	Lower		
(1) Within station walksheds and/or defined buffer of alignme (2) On properties that overlap with the project footprint	nt				Lower Performin	Medium	Higher Performing		

SODO and Chinatown-ID

= Key Differentiators

Performing

Evaluation Measures	Project	Portal	Surface E-3	Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue		
Encourage equitable and sustainable urban grow	vth in station areas throu	ugh support of transit-or	riented development, st	ation access, and modal	integration in a manner	that is consistent with lo	cal land use plans and		
policies.									
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Station Land Use Plan Consistency	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Activity Nodes Served (1)	57	57	57	54	54	57	56		
Passenger Transfers	Higher	Medium	Medium	Medium	Lower	Lower	Medium		
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Bicycle Accessibility (1)	21%	21%	21%	21%	21%	21%	21%		
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	Medium	Medium	Medium	Medium	Medium		
Development Potential (1)	14%	14%	14%	13%	13%	14%	15%		
Equitable Development Opportunities	Lower	Medium	Lower	Medium	Lower	Medium	Higher		
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through sustainable practices.									
Historic Properties/Landmarks (2)	3	2	3	5	2	3_	3		
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower			- m	., er	Lower		
Parks and Recreational Resources Effects (acres)	0	0	Displacement of s	social services	Traffic detou		0		
Water Resource Effects (acres)	0	0	at Jefferson port	al site; traffic	from full 4 th A	Ave lane	0		
Fish and Wildlife Habitat Effects (acres)	0	0	detour effects fro		closures d	uring	0		
Hazardous Materials Sites (1)	4	9			partial via		6		
Visual Effects	Higher	Higher	Ave lane closure			e	Higher		
Noise and Vibration Sensitive Receivers (1)	Medium	Medium	viaduct repla	acement	replacen	nent _{um}	Medium		
Potentially Affected Properties	Medium	Medium	Iviculum	raini	ivieaium	ivieuium	Medium		
Residential Unit Displacements	Medium	Medium	Medium	dium	Medium	Medium	Medium		
Square Feet of Business Displacements	Higher	Lower	Higher	Lower	Higher	Lower	Lower		
Construction Impacts	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Burden on Low-Income/Minority	Medium	Medium	Medium	Lower	Lower	Higher	Medium		
Traffic Circulation and Access Effects	Medium	Higher	Medium	Lower	Medium	Higher	Medium		
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Lower	Lower	Higher	Medium		
Effects on Freight Movement	Medium	Higher	Medium	Lower	Lower	Higher	Lower		
Business and Commerce Effects	Medium	Medium	Medium	Medium	Medium	Higher	Lower		
(1) Within station walksheds and/or defined buffer of alignment	nt								

SODO and Chinatown-ID

(2) On properties that overlap with the project footprint



Performing

Lower Performing

= Key Differentiators

Evaluation Measures	ST3 Representative Project	Massachusetts Tunnel Portal	Su	rface E-3	4th Avenue Cut-a Cover C-ID	4th Avenue Mined C-ID	5th Avenue Mined C-ID	Occidental Avenue	
Encourage equitable and sustainable urban grow	th in station areas thro	ugh support of transit-orie	ented de	velopment, sto	ation access, and mo	odal integration in a manner	that is consistent with lo	cal land use plans and	
policies.									
Compatibility with Urban Centers/Villages (1)	Medium	Medium	N	⁄ledium	Medium	Medium	Medium	Medium	
Station Land Use Plan Consistency	Medium	Medium	N	/ledium	Medium	Medium	Medium	Medium	
Activity Nodes Served (1)	57	57		57	54	54	57	56	
Passenger Transfers	Higher	Medium	N	/ledium	Mdium	Lower	Lower	Medium	
Bus/Rail and Rail/Rail Integration (1)	Medium	Medium	N	⁄ledium	Medium	Medium	Medium	Medium	
Bicycle Accessibility (1)	21%	21%		21%	21%	21%	21%	21%	
Pedestrian/Limited Mobility Accessibility (1)	Medium	Medium	N	⁄ledium	Medium	Medium	Medium	Medium	
Development Potential (1)	14%	14%		14%	13%	13%	14%	15%	
Equitable Development Opportunities	Lower	Medium		Lower	Medium	Lower	Medium	Higher	
Preserve and promote a healthy environment and economy by minimizing adverse impacts on the natural, built and social environments through exercises.									
Historic Properties/Landmarks (2)	3	2		3	5	Construction	3	3	
Potential for effects to Archaeological Resources ⁽¹⁾	Lower	Lower		Lower	Lower	effects, including	Lower	Lower	
Parks and Recreational Resources Effects (acres)	0	New grade-		Const	truction	displacement of	0	0	
Water Resource Effects (acres)	0						0	0	
Fish and Wildlife Habitat Effects (acres)	0	separated roadwa			including	Ryerson Bus Base	0	0	
Hazardous Materials Sites (1)	4	crossings (Lande	r,	4 th Av	re lane	and lane closures	9	6	
) (C. 1 ECC.)	on effects on	Holgate) improve		closure	s during 🔼	on 4 th Ave due to			
Noise and Vinration Sensiti		existing	N		acement m	partial replacement	Less constru	uction effects,	
1 Oteritiany Arrected 1	mp structures		N		11		lane closure	es on 5 th Ave	
Residential Unit Displace and fou	ındations	rail/traffic/freight	N	of via	aduct m	of viaduct structure		ed station	
Square Feet of Business Displacements		operations		stru	cture	High	With Hill	cu station	
Construction Impacts	ver	Higher	N	lealam	<u>cowe</u> r	Lower	High	Medium	
Burden on Low-Income/Minority	edium	Medium	N	⁄ledium	Lower	Lower	Higher	Medium	
Traffic Circulation and Access Effects	Medium	Higher	N	⁄ledium	Lower	Medium	Higher	Medium	
Effects on Existing Transportation Facilities	Lower	Higher	N	⁄ledium	Lower	Lower	Higher	Medium	
Effects on Freight Movement	Medium	Higher	N	⁄ledium	Lower	Lower	Higher	Lower	
Business and Commerce Effects	Medium	Medium	N	⁄ledium	Medium	Medium	Higher	Lower	
(1) Within station walksheds and/or defined buffer of alignme (2) On properties that overlap with the project footprint	nt					Lower Performin	Medium	Higher Performing	

SODO and Chinatown-ID

ST3 Representative

Massachusetts Tunnel



Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle	Oregon Street/Alaska Junction/	Golf Course/Alaska Junction/	Oregon Street/Alaska Junction/				
Desired high a all a said adiable and effect		Tunnel	Elevated	Tunnel	Tunnel				
Provide high quality rapid, reliable, and efficient					Litaba a				
Potential Service Interruptions	Higher	Higher	Higher	Higher	Higher				
Travel Times (minutes)	7 to 8	7 to 8	7 to 8	7 to 8	7 to 8				
Improve regional mobility by increasing conne									
Network Integration	Medium	Medium	Medium	Medium	Medium				
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium				
Ridership Potential (2040 pop/emp) (1)	11,200	12,500	12,000	10,700	12,500				
Connect regional centers as described in adop			velopment plans and Sound Trans	it's Long-Range Plan.					
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A				
Manufacturing/Industrial Centers Served	1	1	1	1	1				
Accommodates Future LRT Extension	Lower	Medium	Lower	Higher	Medium				
Implement a system that is consistent with the	Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.								
Mode, Route and Stations per ST3	Higher	Higher	Higher	Medium	Higher				
Potential ST3 Schedule Effects	Higher	Lower	Higher	Lower	Lower				
Potential ST3 Operating Plan Effects	Higher	Higher	Higher	Higher	Higher				
Engineering Constraints	Medium	Lower	Medium	Medium	Higher				
Constructability Issues	Lower	Lower	Lower	Lower	Medium				
Operational Constraints	Medium	Higher	Medium	Medium	Medium				
Conceptual Capital Cost Comparison	-	\$1,200M increase	Similar	\$700M increase	\$500M increase				
Operating Cost Impacts	Higher	Medium	Higher	Medium	Medium				
Expand mobility for the corridor and region's	residents, which include transit d	ependent, low income, and mind	rity populations.						
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium				
(activity nodes/subsidized rental units) (1)	15%	13%	14%	15%	13%				
Low-Income Population (1/2)	25% / 21%	24% / 21%	23% / 21%	26% / 21%	23% / 21%				
Minority Population (1/2)	22% / 26%	23% / 26%	21% / 26%	23% / 26%	21% / 26%				
Youth Population (1/2)	13% / 17%	14% / 17%	14% / 17%	13% / 17%	14% / 17%				
Elderly Population (1/2)	16% / 13%	15% / 13%	15% / 13%	16% / 13%	15% / 13%				
Limited English Proficiency Population (1/2)	3% / 4%	3% / 4%	3% / 4%	3% / 4%	3% / 4%				
Disabled Population (1/2)	9% / 9%	9% / 9%	9% / 9%	9% / 9%	9% / 9%				

⁽¹⁾ Within station walksheds

Lower Performing

Medium Performing

Higher Performing

⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle	Oregon Street/Alaska Junction/	Golf Course/Alaska Junction/	Oregon Street/Alaska Junction/
		Tunnel	Elevated	Tunnel	Tunnel
Provide high quality rapid, reliable, and efficient					
Potential Service Interruptions	Higher	Higher	Higher	Higher	Higher
Travel Times (minutes)	7 to 8	7 to 8	7 to 8	7 to 8	7 to 8
Improve regional mobility by increasing conn	ectivity and capacity through dov		transit demand.		
Network Integration	Madium	Medium	Madina.	Modium	Medium
Passenger Carrying Capacity	Complicates future	Medium	Complicates future	Best accommodates	Medium
Ridership Potential (2040 pop/emp) (1)	LRT extension	12,500	LRT extension	future LRT extension	12,500
Connect regional centers as described in adop	pte	ransportation, and economic de	ve 		
Regional Growth Centers Served	N/A (3)	N/A	N/A	N/A	N/A
Manufacturing/Industrial Centers Served	1	1	1	1	1
Accommodates Future LRT Extension	Lower	Medium	Lower	Higher	Medium
Implement a system that is consistent with th	e ST3 Plan that established trans	it mode, corridor, and station loc	ations and that is technically feas	ible and financially sustainable t	o build, operate, and maintain.
Mode, Route and Stations per ST3	Higher	Higher	Higher	Medium	Higher
Potential ST3 Schedule Effects	Higher	Lower	Higher	Lower	Lower
Potential ST3 Operating Plan Effects	Higher	Higher	Higher	Higher	Higher
Engineering Constraints	Medium	Lower	Medium	Medium	Higher
Constructability Issues	Lower	Lower	Lower	Lower	Medium
Operational Constraints	Medium	Higher	Medium	Medium	Medium
Conceptual Capital Cost Comparison	-	\$1,200M increase	Similar	\$700M increase	\$500M increase
Operating Cost Impacts	Higher	Medium	Higher	Medium	Medium
Expand mobility for the corridor and region's	residents, which include transit d	ependent, low income, and mino	rity populations.		
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium
(activity nodes/subsidized rental units) (1)	15%	13%	14%	15%	13%
Low-Income Population (1/2)	25% / 21%	24% / 21%	23% / 21%	26% / 21%	23% / 21%
Minority Population (1/2)	22% / 26%	23% / 26%	21% / 26%	23% / 26%	21% / 26%
Youth Population (1/2)	13% / 17%	14% / 17%	14% / 17%	13% / 17%	14% / 17%
Elderly Population (1/2)	16% / 13%	15% / 13%	15% / 13%	16% / 13%	15% / 13%
Limited English Proficiency Population (1/2)	3% / 4%	3% / 4%	3% / 4%	3% / 4%	3% / 4%
Disabled Population (1/2)	9% / 9%	9% / 9%	9% / 9%	9% / 9%	9% / 9%

⁽¹⁾ Within station walksheds

Lower Performing M

Medium Performing Higher Performing

West Seattle/Duwamish



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Junction/ Tunnel	Oregon Street/Alaska Junction/ Tunnel				
Provide high quality rapid, reliable, and efficient	ent peak and off-peak light rail tr	ansit service to communities in ti	he project corridors defined in ST3						
Potential Service Interruptions	Higher	Higher	Higher	Higher	Higher				
Travel Times (minutes)	7 to 8	7 to 8	7 to 8	7 to 8	7 to 8				
Improve regional mobility by increasing conn	ectivity and capacity through dov	yntown Seattle to meet projected	d transit demand.						
Network Integration	Medium	Medium	Medium	Medium	Medium				
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium				
Ridership Potential (2040 pop/emp) (1)	11,200	12,500	12,000	10,700	12,500				
Connect regional centers as described in adop	Connect regional centers as described in adopted regional and local land use, transportation, and economic described in the contract of the co								
Regional Growth Centers Served	N/A ⁽³⁾	N/A	Tunnel options could	N/A	N/A				
Manufacturing/Industrial Centers Served	1	1	affect schedule	1	1				
Accommodates Future LRT Extension	Lower	Medium	LOWEI	Higher	Medium				
Implement a system that is consistent with th	e ST3 Plan that established trans	it mode, corridor, and station loc	s and that is technican,	ible and financially sustainable t	o build, operate, and maintain.				
Mode, Route and Stations per ST3	Higher	Higher	Higher	Medium	Higher				
Potential ST3 Schedule Effects	Higher	Lower	Higher	Lower	Lower				
Potential ST3 Operating Plan Effects	Higher	Higher	Higher	Higher	Higher				
Engineering Constraints	Medium	Lower	Medium	Medium	Higher				
Constructability Issues	Lower	Lower	Lower	Lower	Medium				
Operational Constraints	Medium	Higher	Medium	Medium	Medium				
Conceptual Capital Cost Comparison	-	\$1,200M increase	Similar	\$700M increase	\$500M increase				
Operating Cost Impacts	Higher	Medium	Higher	Medium	Medium				
Expand mobility for the corridor and region's	residents, which include transit d	ependent, low income, and mino	rity populations.						
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium				
(activity nodes/subsidized rental units) (1)	15%	13%	14%	15%	13%				
Low-Income Population (1/2)	25% / 21%	24% / 21%	23% / 21%	26% / 21%	23% / 21%				
Minority Population (1/2)	22% / 26%	23% / 26%	21% / 26%	23% / 26%	21% / 26%				
Youth Population (1/2)	13% / 17%	14% / 17%	14% / 17%	13% / 17%	14% / 17%				
Elderly Population (1/2)	16% / 13%	15% / 13%	15% / 13%	16% / 13%	15% / 13%				
Limited English Proficiency Population (1/2)	3% / 4%	3% / 4%	3% / 4%	3% / 4%	3% / 4%				
Disabled Population (1/2)	9% / 9%	9% / 9%	9% / 9%	9% / 9%	9% / 9%				

⁽¹⁾ Within station walksheds

Lower Performing

Medium Performing

Higher Performing

West Seattle/Duwamish



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representation	ve Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Jun Tunnel	oction/ Oregon Street/Alaska Junction/ Tunnel
Provide high quality rapid, reliable, and efficie	ent peak and off-pea	k light rail tr	ansit service to communities in th	ne project corridors defined in ST3		
Potential Service Interruptions	Higher		Higher	Higher	Higher	Higher
Travel Times (minutes)	7 to 8		7 to 8	7 to 8	7 to 8	7 to 8
Improve regional mobility by increasing conn	ectivity and capac <mark>ity</mark>		untaum Caattle to most projector	ansit demand.		
Network Integration	Medi	Most e	ngineering constraints	Medium	Medium	Modium
Passenger Carrying Capacity	Medi	(tunnel th	nrough unstable slopes,	Medium	Medium	Fewer engineering
Ridership Potential (2040 pop/emp) (1)	11,2		water crossing, wide	12,000	10,700	constraints (avoids Pigeon
Connect regional centers as described in adop	oted regional and			ppment plans and Sound Trans	it's Long-Range Plan.	
Regional Growth Centers Served	N/A		Pacific Argo railyard	N/A	N/A	Point steep slope)
Manufacturing/Industrial Centers Served	1	crossing,	high voltage lines, etc.)	1	1	
Accommodates Future LRT Extension	Lower		IVI	Lower	Higher	
Implement a system that is consistent with th	e ST3 Plan that estab	blished transi	it mode, corrido	ations and that is technically feas	ible and financially susta	inable to build, oper
Mode, Route and Stations per ST3	Higher		High	Higher	Medium	her
Potential ST3 Schedule Effects	Higher		Lowe	Higher	Lower	Lower
Potential ST3 Operating Plan Effects	Higher		Higher	Higher	Higher	Higher
Engineering Constraints	Medium	1	Lower	Medium	Medium	Higher
Constructability Issues	Lower		Lower	Lower	Lower	Medium
Operational Constraints	Medium	1	Higher	Medium	Medium	Medium
Conceptual Capital Cost Comparison	-		\$1,200M increase	Similar	\$700M increase	\$500M increase
Operating Cost Impacts	Higher		Medium	Higher	Medium	Medium
Expand mobility for the corridor and region's	residents, which incl	ude transit d	ependent, low income, and mino	rity populations.		
Opportunities for Low-Income/Minority	Medium	1	Medium	Medium	Medium	Medium
(activity nodes/subsidized rental units) (1)	15%		13%	14%	15%	13%
Low-Income Population (1/2)	25% / 219	%	24% / 21%	23% / 21%	26% / 21%	23% / 21%
Minority Population (1/2)	22% / 269	%	23% / 26%	21% / 26%	23% / 26%	21% / 26%
Youth Population (1/2)	13% / 179	%	14% / 17%	14% / 17%	13% / 17%	14% / 17%
Elderly Population (1/2)	16% / 139	%	15% / 13%	15% / 13%	16% / 13%	15% / 13%
Limited English Proficiency Population (1/2)	3% / 4%		3% / 4%	3% / 4%	3% / 4%	3% / 4%
Disabled Population (1/2)	9% / 9%		9% / 9%	9% / 9%	9% / 9%	9% / 9%

⁽¹⁾ Within station walksheds

Lower Performing Mediu

Medium Performing

Higher Performing

West Seattle/Duwamish



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle	Oregon Street/Alaska Junction/	Golf Course/Alaska Junction/	Oregon Street/Alaska Junction/			
Provide high quality rapid, reliable, and efficie	ent neak and off neak light rail tr	Tunnel	Elevated	Tunnel	Tunnel			
Potential Service Interruptions	Higher	Higher	Higher	Higher	Higher			
Travel Times (minutes)	7 to 8	7 to 8	7 to 8 7 to 8		7 to 8			
Improve regional mobility by increasing conne				7 10 8	7 10 8			
Network Integration	Medium	Medium	Medium	Medium	Medium			
Passenger Carrying Capacity	Medium	Medium	Medium	Medium	Medium			
Ridership Potential (2040 pop/emp) (1)	11.200	12.500	12,000	10.700	12,500			
Connect regional centers as described in adop	,	/		-,	12,300			
Regional Growth Centers Served	N/A ⁽³⁾	N/A	N/A	N/A	N/A			
Manufacturing/Industrial Centers Served	1	1	1	1	1			
Accommodates Future LRT Extension	Lower	Medium	Lower	Higher	Medium			
Implement a system that is consistent with the ST3 Plan that established transit mode, corridor, and station locations and that is technically feasible and financially sustainable to build, operate, and maintain.								
Mode, Route and Stations per ST3	Higher	Higher			Higher			
Potential ST3 Schedule Effects	Higher	Lower		alternatives;	Lower			
Potential ST3 Operating Plan Effects	Higher	Higher	requires 3 rd	Party funding	Higher			
Engineering Constraints	Medium	Lower	Ma	TIM TIME	Higher			
Constructability Issues	Lower	Lower	Lower	Lower	Medium			
Operational Constraints	Medium	Higher	Medium	Medium	Medium			
Conceptual Capital Cost Comparison	-	\$1,200M increase	Similar	\$700M increase	\$500M increase			
Operating Cost Impacts	Higher	Medium	Higher	Medium	Medium			
Expand mobility for the corridor and region's	residents, which include transit d	lependent, low income, and mind	rity populations.					
Opportunities for Low-Income/Minority	Medium	Medium	Medium	Medium	Medium			
(activity nodes/subsidized rental units) (1)	15%	13%	14%	15%	13%			
Low-Income Population (1/2)	25% / 21%	24% / 21%	23% / 21%	26% / 21%	23% / 21%			
Minority Population (1/2)	22% / 26%	23% / 26%	21% / 26%	23% / 26%	21% / 26%			
Youth Population (1/2)	13% / 17%	14% / 17%	14% / 17%	13% / 17%	14% / 17%			
Elderly Population (1/2)	16% / 13%	15% / 13%	15% / 13%	16% / 13%	15% / 13%			
Limited English Proficiency Population (1/2)	3% / 4%	3% / 4%	3% / 4%	3% / 4%	3% / 4%			
Disabled Population (1/2)	9% / 9%	9% / 9%	9% / 9%	9% / 9%	9% / 9%			

⁽¹⁾ Within station walksheds

Lower Performing

Medium Performing

Higher Performing

West Seattle/Duwamish



⁽²⁾ Within 15 minute ride on connecting high frequency transit

⁽³⁾ NA = Measure not applicable to this segment

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Junction/ Tunnel	Oregon Street/Alaska Junction/ Tunnel
Encourage equitable and sustainable urban g	growth in station areas through su	upport of transit-oriented develo	pment, station access, and modal	integration in a manner that is	consistent with local land use
plans and policies.					
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	Higher
Activity Nodes Served (1)	40	41	42	38	42
Passenger Transfers	Medium	Higher	Medium	Medium	Higher
Bus/Rail and Rail/Rail Integration (1)	Medium	Higher	Medium	Medium	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Medium	Higher	Higher	Higher	Higher
Development Potential (1)	Medium	Medium	Medium	Higher	Medium
Equitable Development Opportunities	Lower	Lower	Medium	Medium	Higher
Preserve and promote a healthy environment	t and economy by minimizing adv	erse impacts on the natural, buil	t and social environments through	h sustainable practices.	
Historic Properties/Landmarks ⁽²⁾	1	1	1	1	2
Potential for effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	1.5	3.5	1.5	2.8	0.6
Water Resource Effects (acres)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fish and Wildlife Habitat Effects (acres)	3.7	5.3	3.7	3.7	1.9
Hazardous Materials Sites (1)	11	7	8	14	14
Visual Effects	Lower	Medium	Lower	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Lower	Lower	Lower	Medium	Lower
Potentially Affected Properties	Higher	Higher	Lower	Higher	Lower
Residential Unit Displacements	Medium	Lower	Lower	Higher	Lower
Square Feet of Business Displacements	Higher	Medium	Lower	Higher	Medium
Construction Impacts	Lower	Higher	Lower	Medium	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Higher	Medium	Higher	Medium
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Medium	Higher
Effects on Freight Movement	Medium	Medium	Medium	Medium	Lower
Business and Commerce Effects	Medium	Higher	Lower	Medium	Medium
1) Within station walksheds and/or defined buffer of alig	gnment	-			ledium

Performing

Higher Performing

⁽²⁾ On properties that overlap with the project footprint

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Junction/ Tunnel	Oregon Street/Alaska Junction/ Tunnel
Encourage equitable and sustainable urban g	rowth in station areas through su	upport of transit-oriented develo	oment, station access, and modal	integration in a manner that is	consistent with local land use
plans and policies.					
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	Higher
Activity Nodes Served (1)	40	41	42	38	42
Passenger Transfers	Medium	Higher	Medium	Medium	Higher
Bus/Rail and Rail/Rail Integration (1)	Medium	Higher	Medium	Medium	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Medium	Higher	Higher	Higher	Higher
Development Potential (1)	Medium	Most effects to	Medium	Higher	Medium
Equitable Development Opportunities	Lower	Duwamish Greenbelt	Medium	Medium	Higher
reserve and promote a healthy environment and economy by minimizing adv					
Historic Properties/Landmarks ⁽²⁾	1	1	1	1	2
Potential for effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower
Parks and Recreational Resources Effects (acres)	1.5	3.5	1.5	2.8	0.6
Water Resource Effects (acres)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fish and Wildlife Habitat Effects (acres)	3.7	5.3	3.7	3.7	1.9
Hazardous Materials Sites (1)	11	7	8	14	14
Visual Effects	Lower	Medium	Lower	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Lower	Lower	Lower	Medium	Lower
Potentially Affected Properties	Higher	Higher	Lower	Higher	Lower
Residential Unit Displacements	Medium	Lower	Lower	Higher	Lower
Square Feet of Business Displacements	Higher	Medium	Lower	Higher	Medium
Construction Impacts	Lower	Higher	Lower	Medium	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Higher	Medium	Higher	Medium
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Medium	Higher
Effects on Freight Movement	Medium	Medium	Medium	Medium	Lower
Business and Commerce Effects	Medium	Higher	Lower	Medium	Medium
(1) Within station walksheds and/or defined buffer of alig (2) On properties that overlap with the project footprint	gnment				Higher Performing



Performing

= Key Differentiators

Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle	Oregon Street/Alaska Junction/		
Francisco Vallanda de la		Tunnel	Elevated	Tunnel	Tunnel
Encourage equitable and sustainable urban g	irowth in station areas through si	ipport of transit-oriented develop	pment, station access, and modal	integration in a manner that is o	consistent with local land use
plans and policies.	B.A. altran	D. A. a. d	D. A. a. d. L. a. a.	D. A. a. d. S. var	1
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	Higher
Activity Nodes Served (1)	40	41	42	38	42
Passenger Transfers (1)	Medium	Higher	Medium	Medium	Higher
Bus/Rail and Rail/Rail Integration (1)	Medium	Higher	Medium	Medium	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Medium	Higher	Higher	Higher	Higher
Development Potential (1)	Medium	Medium	Medium	Higher	Medium
Equitable Development Opportunities	Lower	Lower	High guideway	Medium	High guideway
reserve and promote a healthy environment	and economy by minimizing adv	erse <u>impacts on the natural_hu</u> il	T and	h sustainable practices	
Historic Properties/Landmarks ⁽²⁾	1	Low guideway	along Genesee;	Low guideway	along Genesee;
otential for effects to Archaeological Resources (1)	Lower		elevated along	along Genesee	elevated Avalon
Parks and Recreational Resources Effects (acres)	1.5	along Genesee	Oregon and 44th	along Genesee	Station
Water Resource Effects (acres)	< 0.1	< 0.1	VII	< 0.1	
Fish and Wildlife Habitat Effects (acres)	3.7	5.3	3.7	3.7	1.9
Hazardous Materials Sites (1)	11	7	8	14	14
Visual Effects	Lower	Medium	Lower	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Lower	Lower	Lower	Medium	Lower
Potentially Affected Properties	Higher	Higher	Lower	Higher	Lower
Residential Unit Displacements	Medium	Lower	Lower	Higher	Lower
Square Feet of Business Displacements	Higher	Medium	Lower	Higher	Medium
Construction Impacts	Lower	Higher	Lower	Medium	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Higher	Medium	Higher	Medium
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Medium	Higher
Effects on Freight Movement	Medium	Medium	Medium	Medium	Lower
Business and Commerce Effects	Medium	Higher	Lower	Medium	Medium
Within station walksheds and/or defined buffer of alig On properties that overlap with the project footprint	gnment	3			ledium forming Higher Performing



Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Junction/ Tunnel	Oregon Street/Alaska Junction/ Tunnel
Encourage equitable and sustainable urban g	rowth in station areas through s	upport of transit-oriented develo	pment, station access, and modal	integration in a manner that is	consistent with local land use
plans and policies.					
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	Higher
Activity Nodes Served (1)	40	41	42	38	42
Passenger Transfers	Medium	Higher	Medium	Medium	Higher
Bus/Rail and Rail/Rail Integration (1)	Medium	Higher	Medium	Medium	Higher
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Higher
Pedestrian/Limited Mobility Accessibility (1)	Medium	Higher	Higher	Higher	Higher
Development Potential (1)	Medium	Medium	Medium	Higher	Medium
Equitable Development Opportunities	Lower	Lower	Medium Medium	Medium	Higher
Preserve and promote a healthy environment	erve and promote a healthy environment and economy by minimizing Elevated guideway and station environments through sustainable p Tunnel station at Fauntlero				
Historic Properties/Landmarks (2)	1	at 44 th increases reside	1		residential and
Potential for effects to Archaeological Resources (1)	Lower		Lower		
Parks and Recreational Resources Effects (acres)	1.5	and business effect	1.5	busir	ness effects
Water Resource Effects (acres)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fish and Wildlife Habitat Effects (acres)	3.7	5.3	3.7	3.7	1.9
Hazardous Materials Sites (1)	11	7	8	14	14
Visual Effects	Lower	Medium	Lower	Medium	Medium
Noise and Vibration Sensitive Receivers (1)	Lower	Lower	Lower	Medium	Lower
Potentially Affected Properties	Higher	Higher	Lower	Higher	Lower
Residential Unit Displacements	Medium	Lower	Lower	Higher	Lower
Square Feet of Business Displacements	Higher	Medium	Lower	Higher	Medium
Construction Impacts	Lower	Higher	Lower	Medium	Medium
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	Higher
Traffic Circulation and Access Effects	Lower	Higher	Medium	Higher	Medium
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Medium	Higher
Effects on Freight Movement	Medium	Medium	Medium	Medium	Lower
Business and Commerce Effects	Medium	Higher	Lower	Medium	Medium
(1) Within station walksheds and/or defined buffer of alig (2) On properties that overlap with the project footprint	nment				ledium rforming Higher Performing



Evaluation Measures	ST3 Representative Project	Pigeon Ridge/West Seattle Tunnel	Oregon Street/Alaska Junction/ Elevated	Golf Course/Alaska Junction/ Tunnel	Oregon Street/Alaska Junction/ Tunnel	
Encourage equitable and sustainable urban g	rowth in station areas through su	upport of transit-oriented develo	pment, station access, and modal	integration in a manner that is	consistent with local land use	
plans and policies.						
Compatibility with Urban Centers/Villages (1)	Medium	Medium	Medium	Medium	Lower	
Station Land Use Plan Consistency	Higher	Higher	Higher	Higher	Higher	
Activity Nodes Served (1)	40	41	42	38	42	
Passenger Transfers	Medium	Higher	Medium	Medium	Higher	
Bus/Rail and Rail/Rail Integration (1)	Medium	Higher	Medium	Medium	Higher	
Bicycle Accessibility (1)	Higher	Higher	Higher	Higher	Higher	
Pedestrian/Limited Mobility Accessibility (1)	Medium	Higher	Higher	Higher	Higher	
Development Potential (1)	Medium	Medium	Medium	Higher	Medium	
Equitable Development Opportunities	Lower	Lower	Medium	Medium	Higher	
Preserve and promote a healthy environment	and economy by minimizing adv	erse impacts on the natural, buil	t and social environments through	h sustainable practices.		
Historic Properties/Landmarks (2)	1	1	1	1	2	
Potential for effects to Archaeological Resources (1)	Lower	Lower	Lower	Lower	Lower	
Parks and Recreational Resources Effects (acres)	1.5	3.5	1.5	2.8	0.6	
Water Resource Effects (acres)	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Fish and Wildlife Habitat Effects (acres)	3.7	5.3	3.7	3.7	1.9	
Hazardous Materials Sites (1)	11	7	8	14	14	
Visual Effects	Lower	Medium	Lower	Medium	Medium	
Noise and Vibration Sensitive Receivers (1)	Lower	Lower	Lower	Medium	Lower	
Potentially Affected Properties	Higher	Higher		Elevated guideway on north side of West Seattle bridge; affects freight, port terminal facilities during construction		
Residential Unit Displacements	Medium	Lower				
Square Feet of Business Displacements	Higher	Medium	affects freigh			
Construction Impacts	Lower	Higher	<u> </u>			
Burden on Low-Income/Minority	Higher	Higher	Higher	Higher	gher	
Traffic Circulation and Access Effects	Lower	Higher	Medium	Higher	Medium	
Effects on Existing Transportation Facilities	Lower	Higher	Medium	Medium	Higher	
Effects on Freight Movement	Medium	Medium	Medium	Medium	Lower	
Business and Commerce Effects	Medium	Higher	Lower	Medium	Medium	
(1) Within station walksheds and/or defined buffer of alig (2) On properties that overlap with the project footprint	nment				ledium rforming Higher Performing	

