

West Seattle and Ballard Link Extensions

Interbay-Ballard Further Studies Workshop #2

January 11, 2023

Interbay-Ballard Further Studies Background

Interbay-Ballard Further Study & Engagement

TIMELINE FOR FURTHER STUDIES

GOALS

- Update on the status of the Ballard Link Extension project and ongoing further studies
- Share alternative concepts for alignments and stations in the Interbay-Ballard segment that Sound Transit team is exploring as requested by the Board in response to Draft EIS comments
- Gather community feedback on station and alignment concepts

December 12

Open House 1

- Share alternatives being explored in response to Draft EIS comments and Sound Transit Board direction
- Introduce Interbay station and alignment concepts

Early to Mid December

Online Update 1

- Post accessible meeting materials on project website (wsblink.participate.online)
- Share online survey of feedback activities in Open House 1

WE ARE HERE

January 11

Open House 2

- Share what we heard at Open House 1
- Share findings of further studies in Interbay and Ballard

Late January

Online Update 2

- Post accessible meeting materials on project website (wsblink.participate.online)
- Share online opportunity collect feedback on all further study concepts and results

February

Sound Transit Board: Status Report

SUPPORTING THE WORK

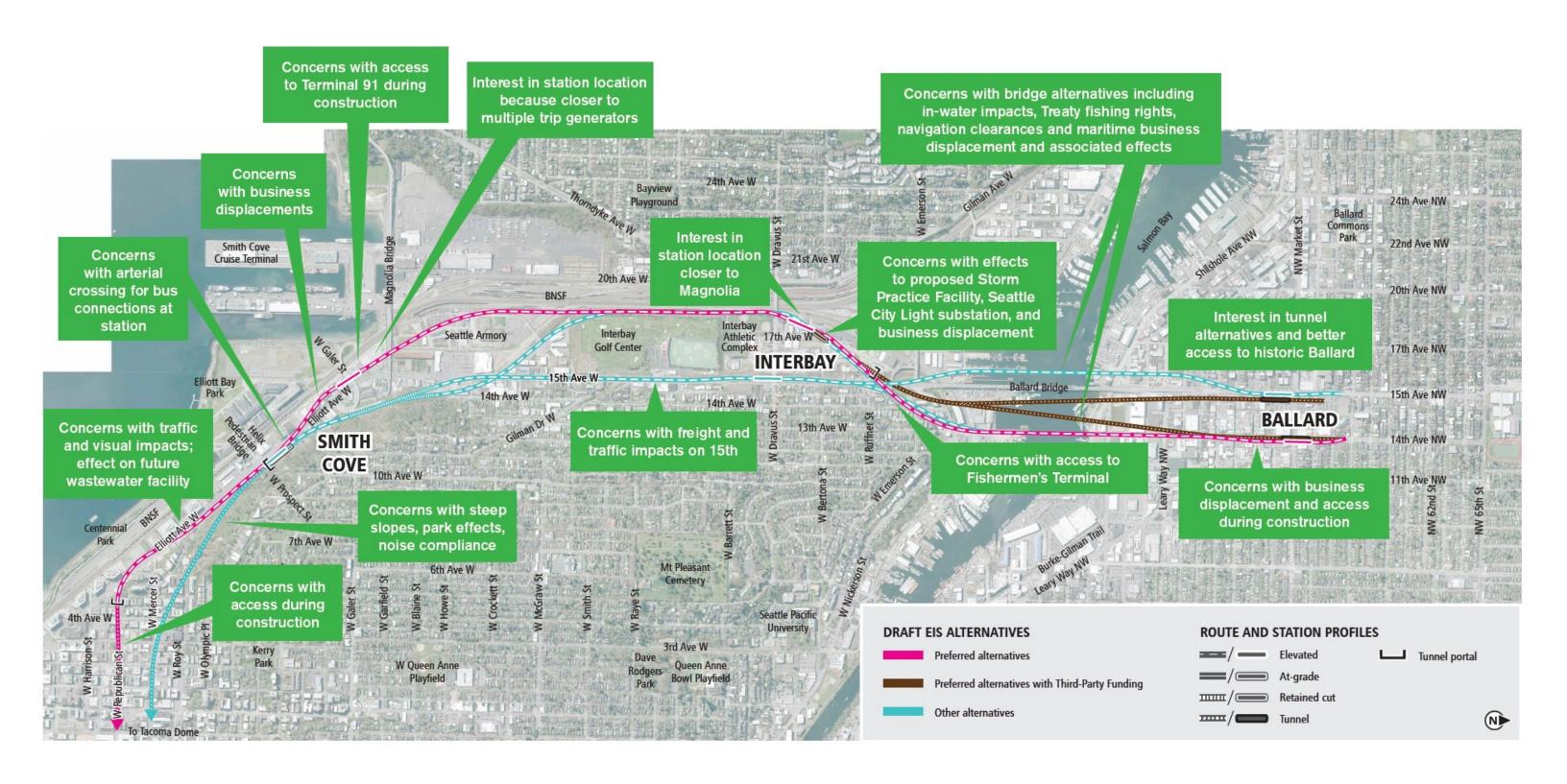
General awareness building including media, stakeholder emails, door-to-door, website updates

Interagency and consultant work

Optional small group, topic specific meetings and briefings (upon request)

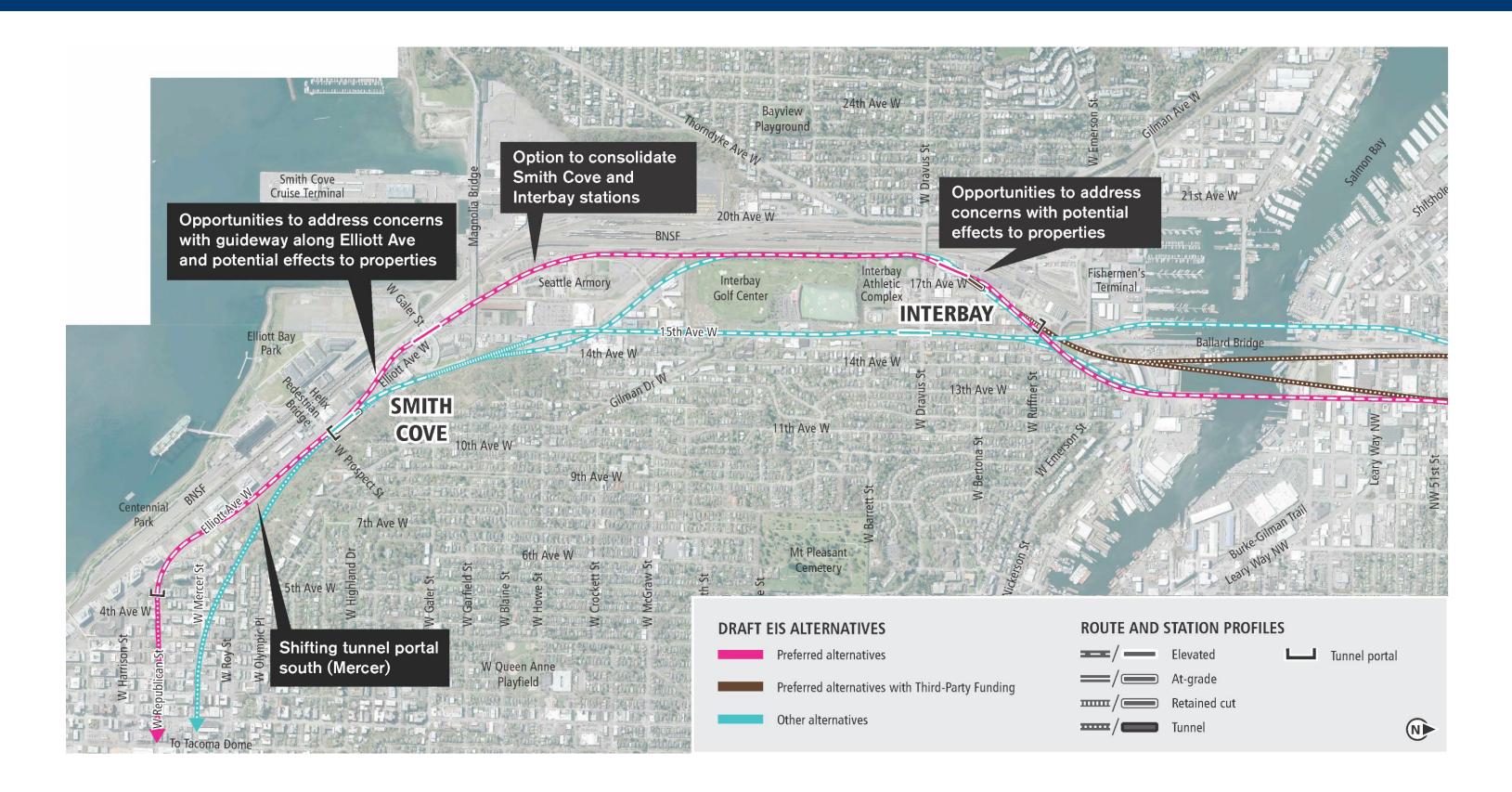


South Interbay and Interbay-Ballard: Snapshot of Draft EIS Comments



Interbay Further Studies

Interbay - Further Studies



What we heard from you about Interbay further study concepts

(includes feedback shared at Dec 12, 2022 open house and companion online survey)





7

Modified SIB-1 Alignment

Republican portal + Smith Cove Station (SIB-1) + Refined Interbay Station

- Interest in maintaining two stations in this part of the alignment to enhance access and future development opportunities.
- Concerns about multiple track crossings over Elliott Ave W and the associated challenges for traffic and pedestrians without other improvements.
- Support for a station at the W Galer St Flyover because of good location, accessibility, and multimodal connection opportunities.
- Support for the pedestrian and bike connections the Shifted Interbay Station could provide, and interest in associated pedestrian, transit, and roadway improvements on W Dravus St.



Modified SIB-3 Alignment

Mercer Pl portal + Shifted Smith Cove Station + Refined Interbay Station

- Concern that a Shifted Smith Cove Station could potentially make access to the cruise terminal and key locations along Elliott Ave W more difficult.
- Support for transit connection opportunities that a Shifted Smith Cove station could provide.
- Interest in understanding what development could be possible around a future station at the Armory Site.
- Support for transit connections and Transit Oriented Development opportunities the Shifted Interbay Station could provide.



Consolidated Alignment

Blaine portal + Consolidated Interbay-Smith Cove Station

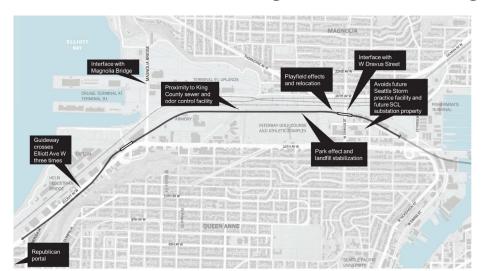
- Concern that a single station could limit opportunities for connections to surrounding neighborhoods and key locations as well as Transit Oriented Development along the corridor.
- Support for fewer property and business impacts in Interbay associated with a consolidated station.
- Interest in the pedestrian, transit, and freight improvement opportunities on 15th Ave W associated with the alignment.
- Interest in potential redevelopment opportunities associated with the tunneled alignment.

Diagrams show an approximate representation of alignment, station location, and access concepts for illustrative purposes only. Not approved by any party.



Smith Cove/Interbay - Technical Findings

Modified SIB-1: Shifted Alignment (Dravus Bridge)



Traffic & Construction Implications

Concept Plan

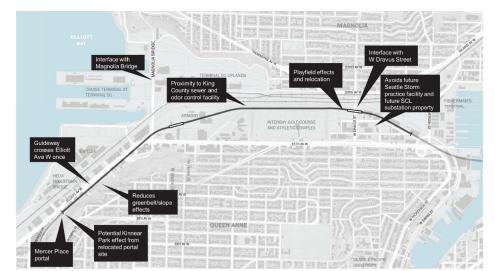


To construct the station under Dravus Street, it is anticipated that a partial closure of W Dravus Street will be needed. This closure is anticipated to maintain at least one lane in each direction for approximately 18 months. This could periodically be reduced to one lane during that period.

Approximate Cost Savings: \$30 million

Cost in 2019\$ (compared to Galer Street Station/Central Interbay, SIB-1, and Tunnel 14th Avenue, IBB-2a)

Modified SIB-3: Mercer PI Portal



Concept Plan

(N)

Queen Anne Hillside



Through additional geotechnical investigation, geotechnical analysis and conceptual design work, the Sound Transit team has determined that the Mercer Place location is not suitable for a tunnel portal. This concept would result in substantial constructability challenges, cost, disruption to the park and hillside/greenbelt, as well as challenges related to the permitting of the portal and guideway concept.

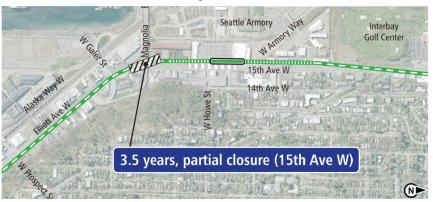
The initial assumption for both the Modified SIB-3 concept and the Draft EIS Prospect Street Station/Central Interbay Alternative (SIB-3) was a connection to a Seattle Center Station on Mercer Street (6th Avenue/Mercer Street Alternative (DT-2) in the Downtown segment). It should be noted that it is potentially feasible to connect the shifted Smith Cove Station north of Magnolia Bridge to the Republican portal with elevated guideway. This would result in a connection to a Seattle Center Station on Republican Street instead of Mercer Street. This and other implications of this connection would require additional study.

Consolidated Station (Ground Improvements)



Concept Plan

Traffic & Construction Implications



Due to suspected existing timber piles and other challenging ground conditions in Elliott Avenue W, a series of ground improvements is recommended in advance of tunneling beneath the roadways to reach the consolidated station location. These ground improvements would require closure of traffic lanes on 15th Avenue W for periods of time, phased across three and a half years, due to necessary utility relocation and excavation of existing ground which would then be replaced with more suitable material to tunnel through.

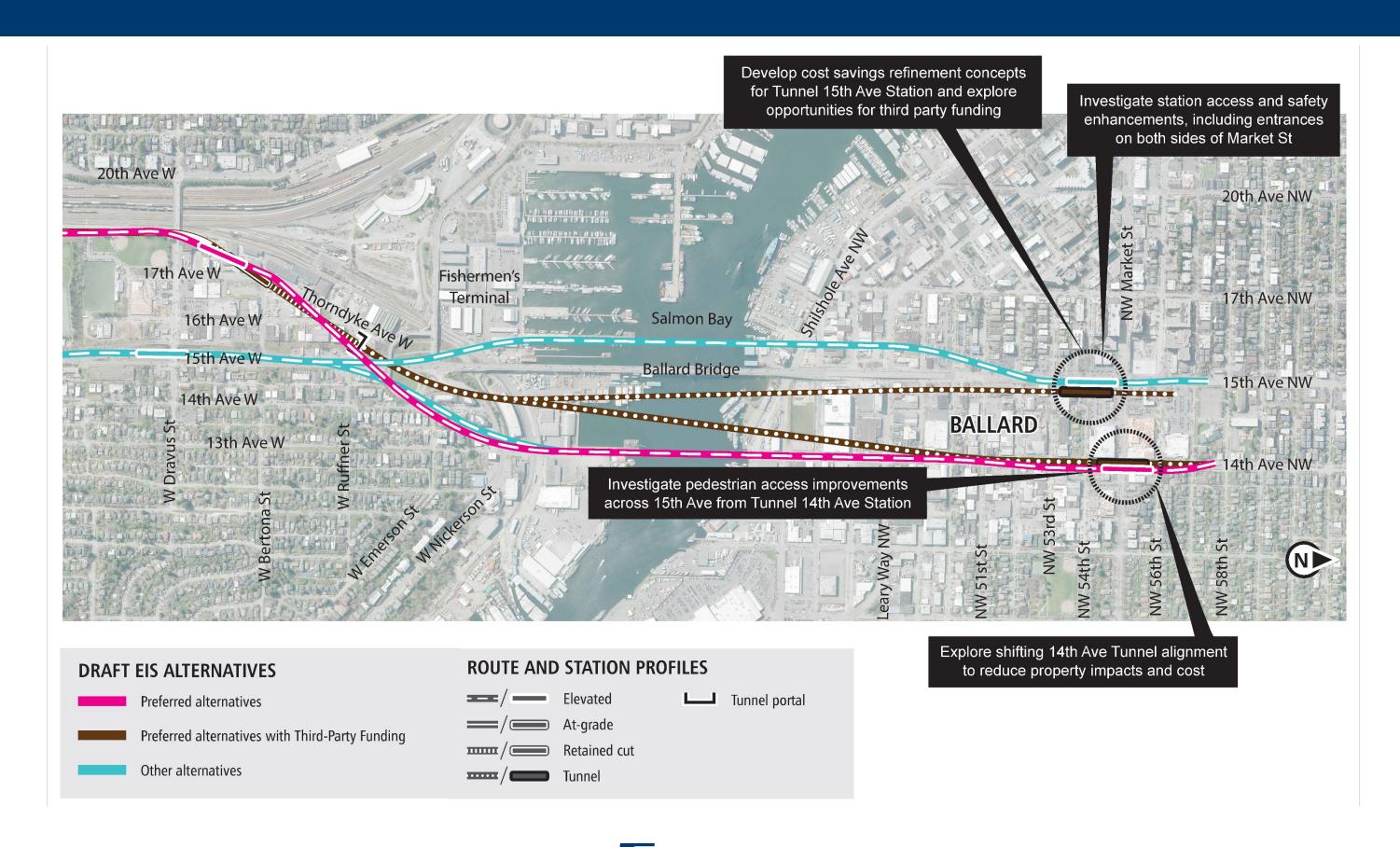
Approximate Additional Cost: \$210 million

Cost in 2019\$ (compared to Galer Street Station/Central Interbay, SIB-1, and Elevated 14th Avenue, IBB-1a)



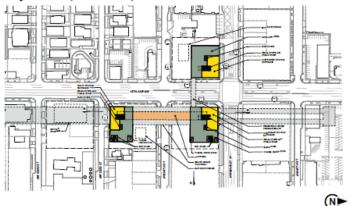
Ballard Further Studies

Ballard Station – Further Studies

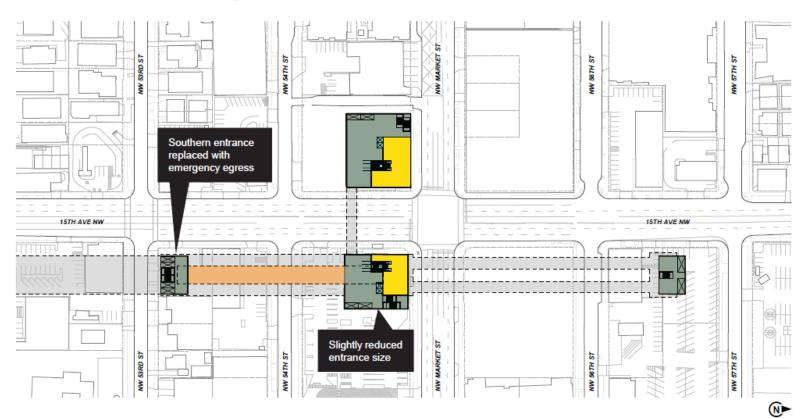


Ballard Tunnel 15th Cost Savings Refined Draft EIS Concept

Draft EIS Tunnel 15th Avenue Station Option (IBB-2b)



Refined Draft DEIS Concept

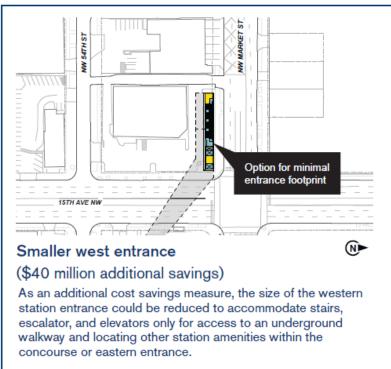


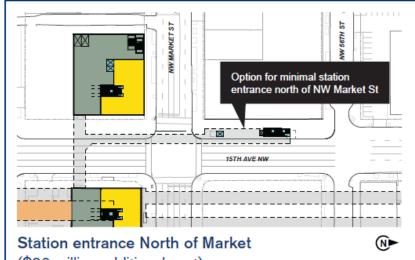
Sound Transit has developed a refined version of the Draft EIS Tunnel 15th Avenue Station Option (IBB-2b) station location, replacing the southern entrance with emergency egress only and slightly reducing the size of the eastern entrance at 15th Ave NW/NW Market St. The Draft EIS Tunnel 15th Avenue Station Option (IBB-2b) is shown on the left for comparison. Access options that could be combined with the refined Draft EIS concept are shown below.

Approximate Cost Savings: \$100 million

Cost in 2019\$ (compared to Tunnel 15th Avenue Station Option, IBB-2b)

Additional Access Options





(\$30 million additional cost)

This study concept adds a minimal station entrance at the northwestern corner of 15th Ave NW and NW Market St by extending the sidewalk and curb east into 15th Ave NW. It permanently reduces the width of 15th Ave NW from 7 lanes to 5 lanes at the intersection of NW Market Street. This is not expected to result in a substantial increase in travel times around the station.



Traffic & Construction Implications N

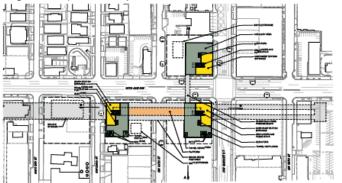
The additional north entrance is estimated to require a temporary partial closure of all but three lanes of 15th Ave NW between NW 57th St and NW 53rd St during construction for 18 to 24 months. Additional phased partial closures of the 15th Ave NW and NW Market St intersection would be needed.

Note: The physical limits of street closures, as well as durations, are approximate and subject to change based on the final design and construction planning.

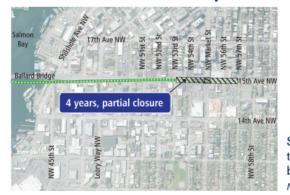


Ballard Tunnel 15th Cost Savings Station Shifted into Right-of-Way

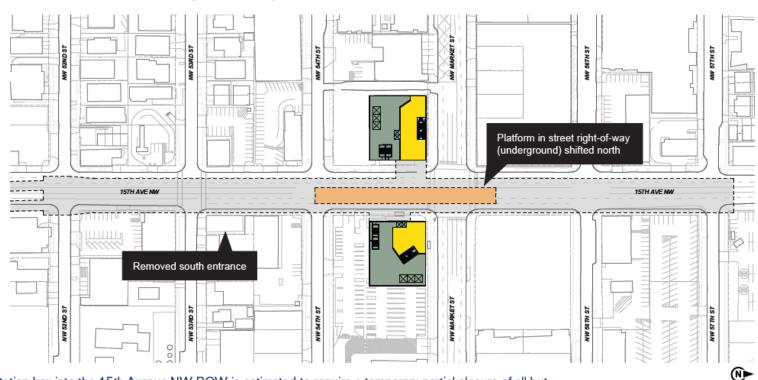
Draft EIS Tunnel 15th Avenue Station Option (IBB-2b)



Traffic & Construction Implications



Station shifted into Right-of-Way



three lanes of 15th Avenue NW between NW 53rd St and NW 57th St for up to 48 months. Additionally, there would be phased partial closures of the intersection of 15th Avenue NW and NW Market Street. Note: The physical limits of street closures, as well as durations, are approximate and subject to change based on the final design and construction planning.

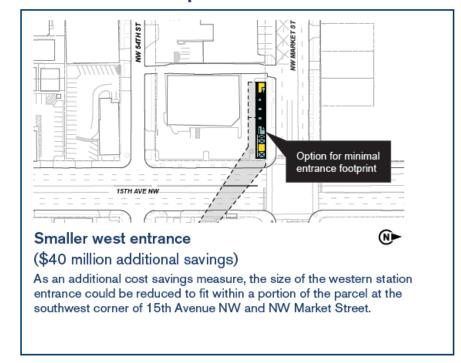
Shifting the station box into the 15th Avenue NW ROW is estimated to require a temporary partial closure of all but

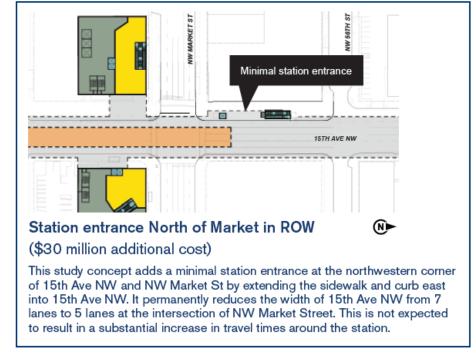
Sound Transit has developed a refined version of the Draft EIS Tunnel 15th Avenue Station Option (IBB-2b) station location, which shifts the tunnel alignment and station into the 15th Ave NW street right-of-way (ROW), The Draft EIS Tunnel 15th Avenue Station Option (IBB-2b) is shown on the left for comparison. Access options that could be combined with the concept are shown below.

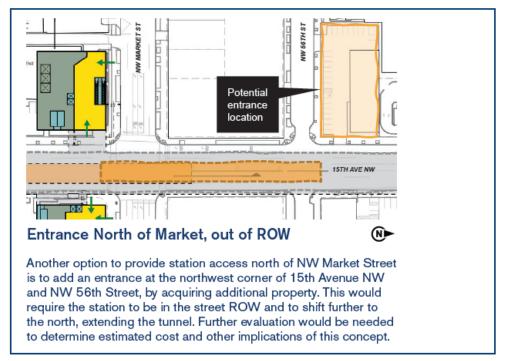
> **Approximate Cost** Savings: \$100 million

Cost in 2019\$ (compared to Tunnel 15th Avenue Station Option, IBB-2b)

Additional Access Options



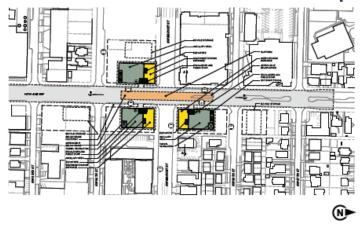




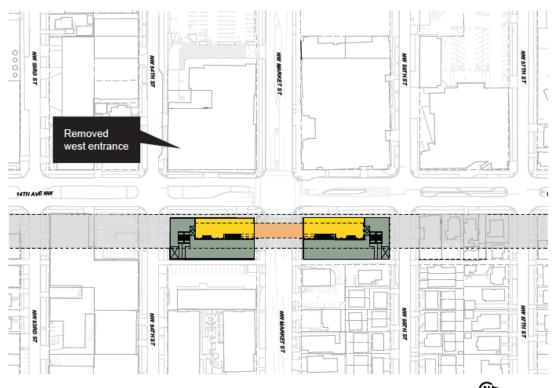


Tunnel 14th Cost Savings Station shifted east out of Right-of-Way

Draft EIS Tunnel 14th Avenue Station Option (IBB-2a)



Shifted Tunnel 14th Ave Station

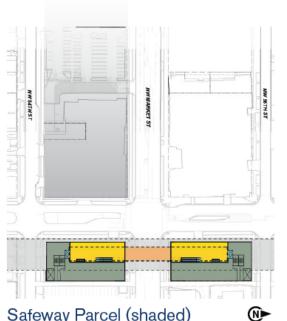


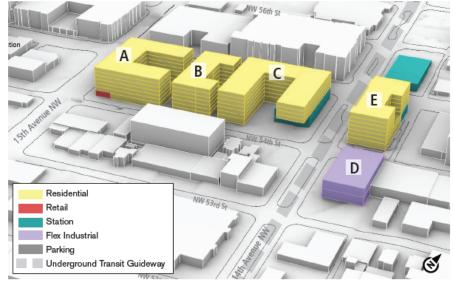
Sound Transit has developed a refined version of the Draft EIS Tunnel 14th Avenue Alternative (IBB-2a) station location that shifts the tunnel alignment and station out of the street right-of-way (ROW) to the east. The graphic depicts the refined tunnel station platform location and two entrances along 14th Ave NW on either side of NW Market St; the entrance west of 14th Avenue would be removed with this concept.

Approximate Cost Savings: \$140 million

Cost in 2019\$ (compared to Draft EIS Tunnel 14th Avenue Alternative)

Transit Oriented Development Implications





The reduction in properties acquired for station construction and operations footprint would substantially reduce opportunities for Sound Transit to directly facilitate equitable Transit Oriented Development (eTOD). With the reduced footprint, this opportunity would be reduced by about three-quarters, with most of the remaining development capacity being on parcels within the manufacturing and industrial zone. This also represents a loss of opportunity to develop a station area designed to provide highly visible station entrances, particularly from the west.

The figure to the left shows conceptual structure sizes and heights. Concept buildings A, B, and C are on the Safeway parcel.

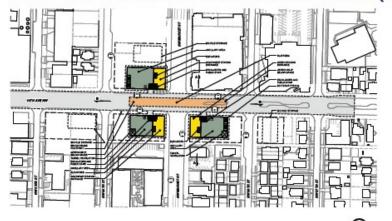
Urban Design Concept

These urban design-level analysis graphics were created to evaluate development potential in TOD site as part of a larger station planning effort, including appropriate uses, building form, parking, connectivity, economic feasibility, and integration with station architecture. They are intended for their express purpose and not to suggest specific building or other design proposals or real estate valuation.



Tunnel 14th Station Access Studies

Draft EIS Tunnel 14th Avenue Alternative (IBB-2a)



Inset Map



Sound Transit has developed a series of concepts that could improve access from west of 15th Avenue NW to the Draft EIS Tunnel 14th Avenue Alternative (IBB-2a) station location. The graphics depict a summary of the different concepts that could be implemented and implications for access, traffic, and cost.

At-Grade Pedestrian Approach and Crossing Improvements



PEDESTRIAN ACCESS IMPLICATIONS Longer waits for Increase in E/W walk



TRAFFIC IMPLICATIONS* & COST







Tunnel 14th Alternative



15th & Market: Curb Bulbs





15th & Market: Pedestrian Scramble



More active frontag **Placemaking**









NW Market St Streetscape Improvements

Grade Separated Pedestrian Crossing Improvements



















15th & Market: Pedestrian Tunnel

NW 53rd St: Crossing Improvements

*Compared to No-Build (2040)

15th & Market: Pedestrian Bridge

Retail Concourse through TOD Site



In-meeting feedback exercise: What matters most to you for light rail in Ballard?

Place a dot on each of the three priorities below that are most important to you!



Improve safety of crossing 15th Ave NW and/or NW Market St



Maximize bus-light rail transfer convenience



Provide station entrance WEST of 15th Ave NW



Provide station entrance NORTH of NW Market St



Maximize equitable Transit
Oriented Development
opportunity in the station area



Minimize impacts to industrial uses in designated industrial areas



Proximity of station to existing Ballard core



Proximity of station to potential future growth in Ballard



Safe walking routes to the station



Safe bike routes to the station



Minimize traffic/freight impacts to 14TH AVE NW



Minimize traffic, freight, and transit impacts to 15TH AVE NW and NW MARKET ST



Maximize opportunities for economic development / new businesses in station area



Minimize business displacements



Improve access to existing or new public open spaces



Stewardship of public funds

Contact us

wsblink@soundtransit.org or 206-903-7229



Visit our online open house and subscribe to project emails:

wsblink.participate.online



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