# Agency Progress Report Capital Programs



**Train testing at the Bellevue Downtown Station** 

January | 2022



#### **Editor's Note**

Sound Transit's Monthly Agency Progress Report summarizes projects and major contracts status, risk, and performance for capital projects.

Due to timing differences in the production of the APR and the ST financial statements, actual cost data presented in the APR may not match the quarterly financial statements. However, the actual cost data is reconciled to the financial statements on a monthly basis.

We always appreciate any suggestions you might have for future refinements to this document. To make suggestions, please contact Julie Parker at (206) 398-5000.

The Agency Progress Report can also be found on the web at http://www.soundtransit.org/get-to-know-us/documents-reports/agency-progress-reports.

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# **Agency Progress Report**

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#### **Sound Transit Current Service** Everett Downtown Everett Link Light Rail N Everett ■①■ Link 1 Line 510 512 532 (Univ. of Washington - Angle Lake) ₼ Mukilteo@ ■**1**■ Link T Line 51370 Eastmont (Tacoma Dome - Theater District) South Everett Sounder -N− Sounder N Line (Everett-Seattle) -S- Sounder S Line (Lakewood/Tacoma-Seattle) 🐲 🏚 Edmonds 🤄 ST Express **Bold** = Route terminus Mountlake Terrace 522 510 Everett-Seattle Kenmore 522 522 511 Ash Way-Northgate Station 512 Everett-Northgate Station Lake City 535 Brickyard 513 Seaway TC-Northgate Station 522 Woodinville-Roosevelt Station 532 To tem Lake 535 532 Everett-Bellevue 535 Lynnwood-Bellevue 522 542 Redmond-U District U District 545 Redmond-Seattle 550 Bellevue-Seattle 554 O Sammamish 554 Bellevue-Northgate Bellevue Transit () Center 556 Issaquah–U District University Street Pioneer Square 560 Bellevue-Sea-Tac Airport-West Seattle Bellevue 566 Auburn-Renton-Overlake 574 Lakewood-Sea-Tac Airport 577 Federal Way-Seattle 578 Puyallup-Federal Way-Seattle 580 Lakewood-Puyallup S60 Newport Hills Columbia City 554 556 554 Issaquah 586 Tacoma-Federal Way-University District 590 Tacoma-Seattle Westwood Village 560 > ® Kennydale 592 DuPont-Lakewood-Seattle 560 594 Lakewood-Tacoma-Seattle Tukwila Renton Landing 595 Gig Harbor-Seattle 596 Bonney Lake-Sumner ★ SeaTac/Airport Park & Ride ★ Ferry Terminal --- Limited Service ★ Sea-Tac Airport Amtrak Kent/Des Moines 🕫 🗸 574 566 P® Kent Star Lake 🕫 🏹 574 Federal Way ® 566 Auburn Park & Ride Tacoma Theater District Commerce St Convention Center E Lakeland Hills Union Station S 25th 574 594 586 595 590 South Tag Puyallup Lakewood Transit Center SR 512 Fairgrounds ® 4580 Red Lot South Hill Bonney Lake DuPont 592 594

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# **Executive Summary**Sound Transit Capital Program

# Agency publishes Draft Environmental Impact Statement for extending light rail to West Seattle and Ballard

In late January, along with the Federal Transit Administration, we published the Draft Environmental Impact Statement for the West Seattle and Ballard Link Extensions project, kicking off a 90-day comment period. Members of the public can comment on the Draft EIS analysis and share their thoughts on routes and station alternatives for the next three months through April 28.

The Draft EIS was prepared in compliance with the National Environmental Policy Act and the State Environmental Policy Act. It evaluates potential impacts and benefits of project alternatives to inform the public, Tribes, government agencies and decision makers.

The West Seattle Link Extension would be about 4.7 miles and includes stations at SODO, Delridge, Avalon and Alaska Junction. The Ballard Link Extension would be about 7.1 miles from Downtown Seattle to Ballard's Northwest Market Street area and includes a new 3.3-mile rail-only tunnel from Chinatown-International District to South Lake Union and Seattle Center/Uptown. Stations would serve Chinatown-International District, Midtown, Westlake, Denny, South Lake Union, Seattle Center, Smith Cove, Interbay and Ballard.

We invited the public to attend an online open house where they can review alternatives and station options and submit formal responses. People can also provide feedback by phone, mail or email, or at upcoming virtual, and possible in-person, public meetings.

Four virtual public meetings will take place throughout March with each meeting focusing on a different segment of the line.

The Sound Transit Board will consider the analysis in the Draft EIS, as well as public, agency and Tribal comments, and additional information, before confirming or modifying the preferred alternative later this year. Sound Transit will then prepare a Final EIS. After publication of the Final EIS, the Board will make a final decision on the project to be built.

### Concrete strike continues to affect Sound Transit projects

Late last year, the Teamsters ratified their multi-craft master labor agreement with the Association of General Contractors, while Gary Merlino Construction was negotiating with the Teamsters separately and has been unable to reach an agreement.

Thirty-four dump truck drivers went on strike against GMC. And on Dec. 1, they were joined on the striking picket line by concrete drivers from Stoneway Concrete, which GMC also owns. On Dec. 3, drivers from the other three union concrete companies joined the strike, shutting down all union concrete delivery in King County.

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## **Executive Summary**

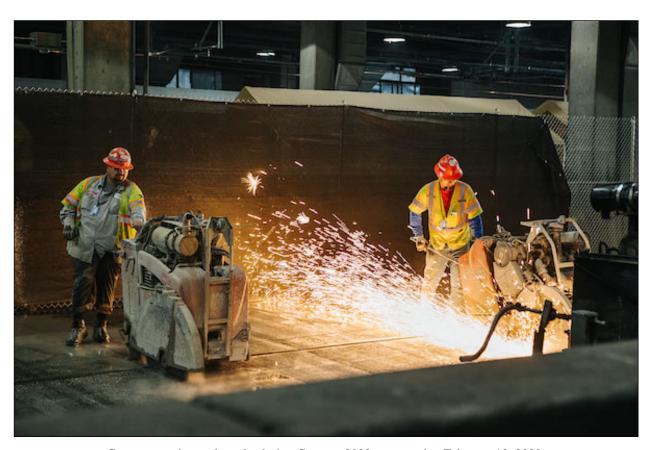


The strike is affecting three of our current projects: Federal Way Link Extension, Downtown Redmond Link Extension and Lynnwood Link Extension.

Talks between the Teamsters Local 174 and the Washington Aggregates & Concrete Association have stalled, and the parties currently have no scheduled negotiation sessions toward a new collective bargaining agreement.

As we approach the third month of the strike, we've missed delivery of about 25,000 cubic yards of concrete.

One of the most troubling aspects of the strike is the toll it is taking on the workforce. The lack of concrete means delays to associated work. As a result, our contractors have had to lay off at least 200 workers so far.



Concrete cutting and sparks during Connect 2020 construction February 10, 2020.

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# Progress Report Link Light Rail Program



**Link Light Rail leaving Mount Baker Station** 

January | 2022







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# Link Light Rail Program Overview



**Downtown Redmond Link Extension:** This project builds a new light rail from the Redmond Technology Station to downtown Redmond by 2024. Light rail will travel along SR-520 with two new stations in southeast Redmond, at Marymoor Park, and downtown Redmond.

**East Link Extension:** East Link Extension expands light rail to East King County via I-90 from Downtown Seattle to the Overlake Transit Center area of Redmond, with stations serving Rainier Avenue/I-90, Mercer Island, South Bellevue, Downtown Bellevue, Overlake Hospital, the Bel-Red corridor, Overlake Village and the Redmond Technology Center (formerly Overlake Transit Center).

**Everett Link Extension:** Everett Link Extension adds six Snohomish County stations to the growing light rail network. The 16.3-mile project extends Link service north from Lynnwood City Center to the SW Everett Industrial Center, SR 526/ Evergreen Way, and downtown Everett.

**Federal Way Link Extension:** The Federal Way Link Extension adds approximately 7.8 miles of light rail from the Angle Lake Station in the City of SeaTac to the Federal Way City Center. The extension generally parallels SR 99 and I-5 freeway with stations at Kent/Des Moines, South 272nd Star Lake park-and-ride and the Federal Way Transit Center.

**Hilltop Tacoma Link Extension:** The Hilltop Tacoma Link Extension is a 2.4 mile extension of the existing Tacoma Link system from the Theater District in downtown Tacoma to the Hilltop neighborhood. The extension will travel at-grade along Stadium Way, North 1<sup>st</sup> Street, Division Avenue, and Martin Luther King Jr. Way.

**Light Rail Vehicle (LRV) Fleet Expansion:** This project includes the design, manufacturing, inspection, testing and delivery of 152 low floor LRVs for service requirements of Northgate, East Link and Lynnwood Link Extensions. The Sound Transit Board in April 2017 allowed for the procurement of 30 additional vehicles.

**Link Operations and Maintenance Facility East:** This project located in the City of Bellevue, includes a 160,000 square foot operations and maintenance facility that will maintain, store and deploy and expand light rail fleet, including seven LRV service bays, a LRV wash facility and storage for up to 96 light rail vehicles.

**Lynnwood Link Extension:** Lynnwood Link Extension extends light rail 8.5 miles to Snohomish County along I-5 from Northgate Mall in Seattle to the Lynnwood Transit Center, with four new light rail stations. The configuration includes at-grade, elevated, and retained cut/fill alignment.

**NE 130th Street Infill Station:** This project will construct foundation and substructure elements for an elevated, side-platform infill light rail station at NE 130th Street and 5th Ave in Seattle.

**Northgate Link Extension:** The University of Washington Station (UWS) to Northgate project is a 4.3-mile extension of light rail from the UWS north under campus via twin-bored tunnels to an underground station at NE 45th Street continuing to an underground station at NE 65th Street and via tunnel, retained cut and elevated sections to Northgate.

**Tacoma Dome Link Extension:** This project will extend light rail from the Federal Way Transit Center in the City of Federal Way to the Tacoma Dome area in the City of Tacoma a total distance of approximately 9.7 miles, generally along or near I-5 with three elevated stations at South Federal Way, Fife, and East Tacoma, and one at-grade/retained station at the Tacoma Dome.

West Seattle and Ballard Link Extensions: The West Seattle & Ballard Link Extensions are voter-approved projects under the ST3 Plan. West Seattle segment includes 4.7 miles of light rail from downtown Seattle to West Seattle's Junction neighborhood. It includes five light rail stations. The route will run primarily on elevated guideway with a new rail-only bridge over Duwamish River. The Ballard segment includes 7.1 miles of light rail from downtown Seattle to Ballard's Market Street area. It includes nine light rail stations. The route will run through a new downtown Seattle rail-only tunnel, elevated guideway, and a rail-only bridge over Salmon Bay.

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# Link Light Rail Program Overview



# **Program Budget**

Project figures for active projects are represented in millions below.

Project	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Downtown Redmond Link Extension	\$1,530.0	\$971.4	\$476.2	\$1,530.0	\$0.0
East Link Extension	\$3,677.2	\$3,221.4	\$3,081.9	\$3,677.2	\$0.0
Everett Link Extension	\$188.0	\$20.4	\$11.3	\$188.0	\$0.0
Federal Way Link Extension	\$2,451.5	\$1,829.8	\$977.0	\$2,451.5	\$0.0
Hilltop Tacoma Link Extension	\$252.7	\$226.9	\$208.1	\$252.7	\$0.0
I-90 Two-Way Transit & HOV Operations (Stage 3)	\$207.6	\$209.7	\$200.0	\$207.6	\$0.0
Light Rail Vehicle (LRV) Fleet Expansion	\$740.7	\$682.4	\$385.7	\$740.7	\$0.0
Link Operations and Maintenance Facility: East	\$449.2	\$379.9	\$377.5	\$449.2	\$0.0
Lynnwood Link Extension	\$2,771.6	\$2,443.7	\$1,639.5	\$2,771.6	\$0.0
NE 130th Street Infill Station	\$36.4	\$22.7	\$20.8	\$36.4	\$0.0
Northgate Link Extension	\$1,899.8	\$1,751.7	\$1,740.7	\$1,847.3	\$52.5
Tacoma Dome Link Extension	\$126.4	\$69.8	\$52.8	\$126.4	\$0.0
West Seattle and Ballard Link Extensions	\$286.7	\$124.8	\$117.2	\$286.7	\$0.0
Total	\$14,617.8	\$11,954.7	\$9,288.5	\$14,565.4	\$52.5

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

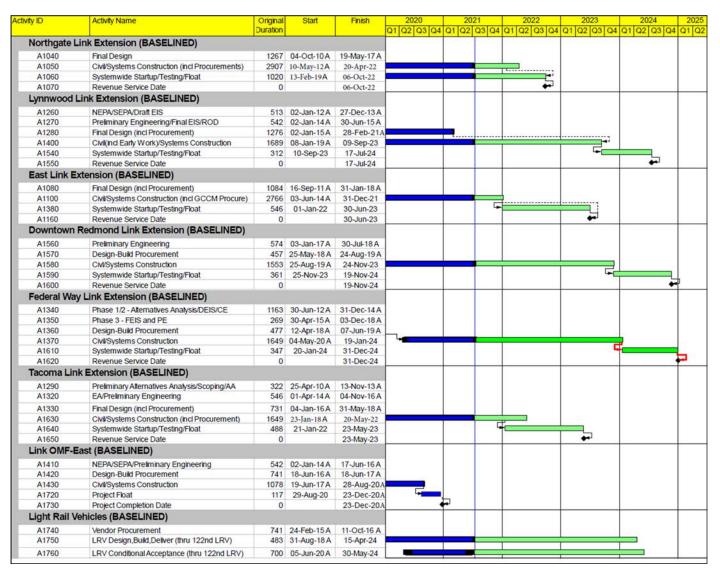
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# Link Light Rail Program Overview



#### **Program Schedule**

Schedules for active projects are summarized below. Projects from the realignment process are not shown. ST is currently updating schedules with ST Board of Director's R2021-05 Realignment Decision.



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#### **Project Summary**

#### Scope

Limits The Downtown Redmond Link Extension

(DRLE) builds new light rail from the Redmond Technology Station to downtown

Redmond.

Alignment The extension starts at Redmond

Technology Station and travels generally along SR-520 and SR-202 to downtown

Redmond.

Stations Two Stations: SE Redmond (at Marymoor

Park) and Downtown Redmond

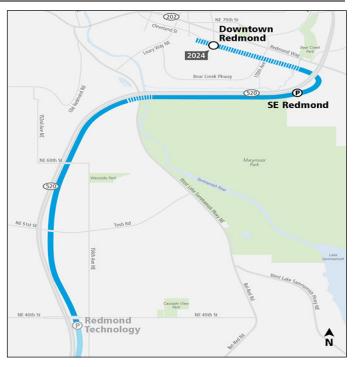
Systems Signals, traction electrification, and

communications (SCADA)

Phase Construction

**Budget** \$1.530 Billion (Baselined October 2018)

**Schedule** Revenue Service: December 31, 2024



Map of Downtown Redmond Link Extension

#### **Key Project Activities**

- Ongoing coordination with SWK Design Builder to closeout items in the Letters of Conformance for the Milestone Submittals.
- Refining deep ground rod design alternative for TPSS grounding.
- Reviewing and responding to NDC/FDCs.
- Continued working to resolve the outstanding structural items on the SE Redmond Garage.
- Field visit with WDSOT regarding access to storm water facilities in NW corner of Marymoor Park.
- Operations & Maintenance agreement discussions with WSDOT, King County and the City of Redmond.

#### **Closely Monitored Issues**

- Teamster strike that is impacting progress of work including related to concrete delivery.
- Mitigation of schedule delay related to SE Redmond garage design issues.
- Ongoing COVID-19 impact associated to labor availability and supply chain.
- L&I support for system building design review and commissioning.
- Third party utility relocations, including work with PSE to complete the NE 70th design
- PSE needs for permanent power for TPSS and analysis about whether system upgrades are required.

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#### **Project Cost Summary**

Voters approved funding for preliminary engineering for the Redmond Link Extension (DRLE) in 2008 in the Sound Transit 2 ballot measure. In response to the 2007-2009 Great Recession, the ST Board suspended the project. In February 2016, the ST Board restored funding to support preliminary engineering of the project prior to funding approval for final design and construction as part of the Sound Transit 3 Plan. Table (below) figures in millions. This project has now been baselined and the baseline budget has been incorporated into the tables below. The first table below summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS), while the second table is in the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

In this period, DRLE incurred approximately \$6.3M of expenditure. About \$5.2M of the expenditure was incurred primarily in the Construction phase for progression of design build scope and construction services. The remaining work phases made up the balance particularly in Construction Services and ROW. Total cumulative expenditure to date rose from \$469.9M to \$476.2M.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$77.0	\$77.0	\$18.8	\$18.5	\$77.0	\$0.0
Preliminary Engineering	\$23.0	\$23.0	\$19.6	\$19.3	\$23.0	\$0.0
Final Design	\$4.5	\$4.5	\$1.0	\$0.8	\$4.5	\$0.0
Construction Services	\$58.0	\$63.6	\$49.4	\$22.9	\$63.6	\$0.0
Third Party Agreements	\$17.0	\$17.0	\$10.7	\$6.7	\$17.0	\$0.0
Construction	\$1,151.5	\$1,145.9	\$767.5	\$304.9	\$1,145.9	\$0.0
ROW	\$199.0	\$199.0	\$104.3	\$103.1	\$199.0	\$0.0
Total	\$1,530.0	\$1,530.0	\$971.4	\$476.2	\$1,530.0	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$332.4	\$332.4	\$237.1	\$99.0	\$332.4	\$0.0
20 Stations	\$261.9	\$261.9	\$188.3	\$54.2	\$261.9	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$287.1	\$287.7	\$198.5	\$58.0	\$287.7	\$0.0
50 Systems	\$108.6	\$103.6	\$67.6	\$19.4	\$103.6	\$0.0
Construction Subtotal (10 - 50)	\$990.0	\$985.6	\$691.5	\$225.6	\$985.6	\$0.0
60 Row, Land	\$168.5	\$168.5	\$104.3	\$103.1	\$168.5	\$0.0
70 Vehicles (Non-Revenue)	\$4.1	\$4.1	\$0.3	\$0.2	\$4.1	\$0.0
80 Professional Services	\$289.3	\$293.6	\$175.3	\$142.3	\$293.6	\$0.0
90 Unallocated Contingency	\$78.2	\$78.2	\$0.0	\$0.0	\$78.2	\$0.0
Total (10 - 90)	\$1,530.0	\$1,530.0	\$971.4	\$476.2	\$1,530.0	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Risk Management**

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It is Sound Transit's responsibility to continuously monitor project status and associated risks.

The project completed its quantitative risk assessment workshop as part of the project baseline process in Q4 2018. The quantitative risk assessment (QRA) report supported with good probability the project baseline cost and schedule assumptions. The external conditions has changed somewhat due to the Teamster's strike, but generally speaking the project's risk profile internal to the project remains somewhat stable. The Q4 2021 qualitative register update is being finalized. QRA is being planned for end of Q1 2022.

The following are the current top risk areas that may impact project cost and schedule:

- Externalities: Covid-19 (supply chain interruptions, inefficiencies, labor availability); Teamster's Concrete Strike.
- Organizational Capacity: Opening three major LRT extension in 2024, agency staffing and labor capacity; developing
  and mobilizing resources and coordinating system integration and start up activities across multiple extensions concurrently,
  market shortage of qualified construction labor
- Late Design Changes During Construction: Utilities; threat and vulnerability demands; preliminary hazard designs; and owner change.
- **Permitting and 3<sup>rd</sup> Party Requirements:** Construction adjacent to SR520; flood prone areas by Sammamish River and Bear Creek; archaeological discovery; construction impacts to traffic; protracted negotiation with third parties; interfacing with private utilities for utility relocations and power service.
- Unanticipated and differing site conditions: Grounding solution for TPSS; geotechnical conditions could increase cost and delay schedule.



Artist rendering of Downtown Redmond Station platform

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#### **Contingency Management**

DRLE project budget was baselined with a total contingency of \$435.8M. The Design Build contract has been procured and the total project contingency balance stands at \$266.0M (previously \$266.6M). The current contingency balance is consistent with the project's planned contingency drawdown.

**Design Allowance** (**DA**) was established to account for unquantified scope at the time of the cost estimate. DA remains at \$4.2M. DA is expected to be fully drawn down at the end of the project.

**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period, AC balance shows a net draw of about \$500K bringing the balance to approximately \$183.6M.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC balance remains at \$78.2M.

#### **Contingency Status**

Contingency	Bas	eline	Current Status		
Туре	Amount % of Total Budget		Amount Remaining	% of Work Remaining	
Design Allowance	\$148.1	9.7%	\$4.2	0.4%	
Allocated Contingency	\$209.6	13.7%	\$183.6	17.7%	
Unallocated Contingency	\$78.2	5.1%	\$78.2	7.6%	
Total	\$435.8	28.5%	\$266.0	25.7%	

#### **Contingency by Type**

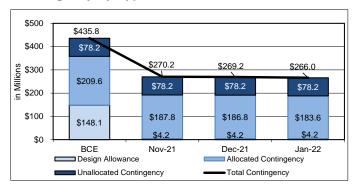
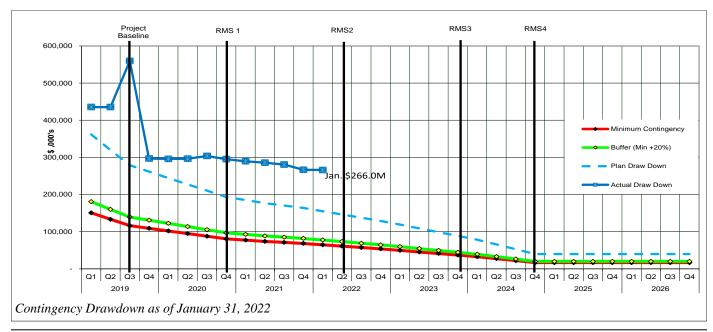


Table figures are shown in millions.

#### **Contingency Drawdown**

DRLE project's total contingency drawdown trends better than plan with an overall contingency balance at approximately \$266.0M (previously \$266.6M) and remains above the baseline drawdown projection and well above both the minimum contingency and the buffered (minimum plus 20%) contingency levels. December's contingency drawdown netted a change of approximately \$500K due to construction changes.



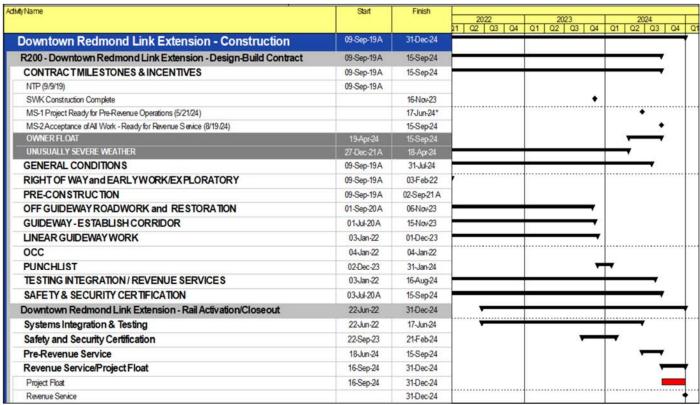
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#### **Project Schedule**

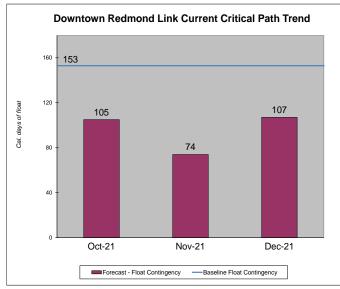
Weighted percent complete of the major construction contracts is calculated at 45.8%

The contractor's December 2021 update is presented below. After making substantial revisions to sequencing in November, updates are lagging slightly while a thorough review is conducted, so a January update has not yet been received. Due to the ongoing Teamster's strike, elements of work all across the alignment, including all cut & cover tunnels, wall construction along the at-grade guideway, substructures for both the Sammamish and Downtown Guideways, The SE Redmond Parking Garage, site restoration at Bear Creek, SR 520 ramp work at the SR 202 interchange, and wall construction at SR202/SR520 have been interrupted. The project currently continues to forecast for completion by the end of 2024.



#### **Project Float**

DRLE was baselined with 153 days of project float. The project is forecasting 107 days of project float as of December, due to the resequencing effort of the contractor. The continued reduction in baseline float is due to the ongoing Teamster's strike, which has not been resolved as of this report and which will continue to erode float on the project into 2022.

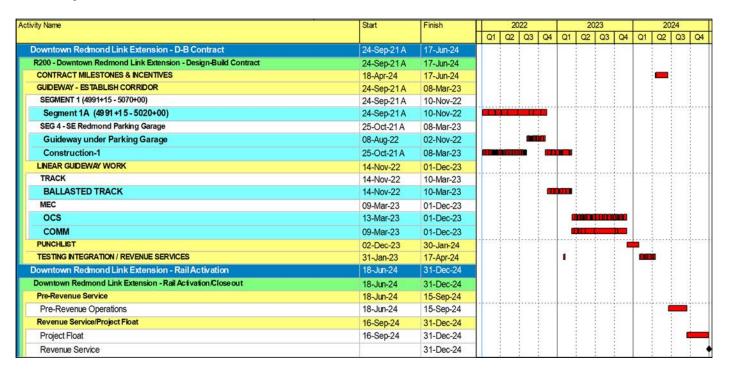


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#### **Critical Path Analysis**

The critical path for R200 in December ran through the parking garage and concurrently through the mitigation slab near Microsoft. From there, the critical path moves to the guideway through the garage, followed by OCS/Signals installation and into testing and closeout.



#### Right-of-Way

The Right-of-Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations.

The Right-of-Way program status for this period is summarized in the following table.

Downtown Redmond Link Extension Property Acquisition Status*							
	ACQUISITION RELOCATION						
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date*	Relocations Required	Relocations Completed to date		
84	88	91	73	1579	1574		

\*All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of the report periods.

Total Acquisitions: Defined as parcels recognizing only land, not owners

Board Approved: Based on parcels and properties (including multi-unit acquisitions)

Offers/Closings: Based on inclusive offers made to separate owners and interest holders

Relocations: Based on number of affected individuals, in the case of DTRLE this incudes relocation of storage units by impacted individuals.

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#### **Community Engagement**

- Ongoing engagement with the public and businesses on potential construction impacts, with specific focus on property
  owners and tenants regarding the start of construction this year and the increasing construction activities along SR 520.
- Restarted station naming process for DRLE's stations
- Continued coordination with contractor to mitigate impacts to downtown business during utility work
- Continued monitoring of concrete strike and the effects it's having to the project timeline and communication with City of Redmond and WSDOT

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

The variance in the utilization of consultants is due to the fact that the design build project management team are being prudently mobilized. The variance on ST Staff is probably due to lower than anticipated staff cross charges. Effectively these variance gap should trend closer to plan average over time; however, due to fluidity of the situation with COVID-19, it is hard to predict how the plan will unfold.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	29.4	23.0	6.5			
Consultants	31.6	25.8	5.8			
TOTAL	61.0	48.8	12.3			
* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.						

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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### **Construction Safety**

Data/ Measure	January 2022	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	8		
Days Away From Work Cases	0	0	0		
Total Days Away From Work	0	0	0		
First Aid Cases	1	1	18		
Reported Near Mishaps	0	0	10		
Average Number of Employees on Worksite	314	-	-		
Total # of Hours (GC & Subs)	24,982	24,982	422,053		
OSHA Incident Rates	Month	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	3.79		
LTI Rate	0.00	0.00	0.00		
Recordable National Average		2.50			
LTI National Average	1.10				
Recordable WA State Average	5.20				
LTI WA State Average		2.90			

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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#### Contract R200 - DRLE Design Build

#### **Current Progress**

#### Design:

- Refining deep ground rod design alternative for TPSS grounding.
- Reviewed and responded to Notice of Design Change / Final Design as appropriate for systems issues.
- Continued working to resolve the outstanding structural items on the SE Redmond Garage.

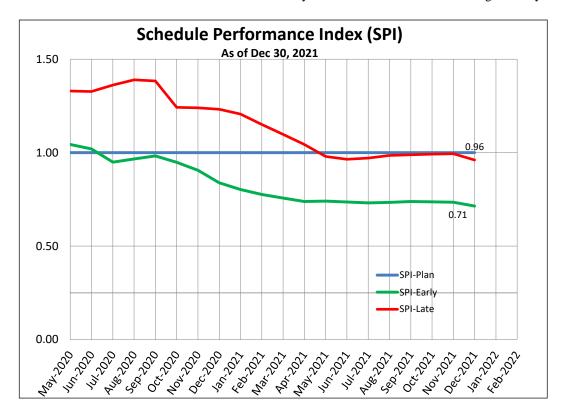
#### **Construction:**

- Cut and Cover Construction. Prep for cap beams including excavation and protection in place existing duct bank is ongoing at 40th Street. Approach slab, sidewalk and bridge barrier formwork and rebar installation is complete at 51st Street.
- SE Station and Garage area. Work to address reinforcing clearance on columns and excavation and construction of station footings and stem walls are ongoing.
- Downtown Redmond Station area. Continue superstructure work: form edge of deck and soffits, guideway deck reinforcement and stirrup installation. Continue to tie structural rebar for column and caps.

#### Schedule Performance Index

The December Schedule Performance Index (SPI) is presented here. The contract schedule was returned to the contractor for revision and was not submitted in time for this report. January's schedule has not been submitted.

For December, the Early Schedule Performance Index (SPI) for the project is at 0.71 for this period, and the Late SPI is at 0.96. The index under 1.0 indicates that the contractor is behind. The Early and Late Start SPI continue to lag the early finish plans.



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#### **Next Period's Activities**

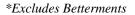
- 40th Street. Soil nail wall precast fascia support blocks being poured utilizing the mobile mixer.
- Sammamish River Crossing. Installation of work platform/formwork for guideway deck ongoing. Girder stop forming and reinforcing continue.
- Downtown Redmond Station. Continue superstructure work: form edge of deck and soffits, tie structural rebar for columns and caps. Forming/rebar installation for cap beams.

#### **Closely Monitored Issues**

- Teamster strike that is impacting progress of work including related to concrete delivery.
- Mitigation of schedule delay related to SE Redmond garage design issues.
- Ongoing COVID-19 impact associated to labor availability and supply chain.
- L&I support for system building design review and commissioning.

#### **Cost Summary**

Present Financial Status	Amount				
R200 Contractor – Stacy Witbeck Kuney, a Joint Venture					
Original Contract Value	\$719,396,000				
Change Order Value	\$26,143,045				
Current Contract Value	\$745,539,045				
Total Actual Cost (Incurred to Date)	\$294,253,492				
Percent Complete	45.8%				
Alternative Concept Allowance	\$46,381,197				
Authorized Contingency	\$78,875,403				
Contingency Drawdown	\$26,143,045				
*Contingency Index	1.38				





Working on girder brackets and cross bracing at Downtown Redmond Station.

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#### **Project Summary**

#### Scope

Limits Fourteen-mile extension from

Downtown Seattle to Mercer Island, Bellevue and the Overlake area of

Redmond.

Alignment East King County via I-90 from

Downtown Seattle to the Overlake

Stations Judkins Park (JPS), Mercer Island

(MIS), South Bellevue, East Main,

Bellevue Downtown (BDS),

Wilburton, Spring District/120th, Bel-Red/130th, Overlake Village (OVS) and Redmond Technology (RTS).

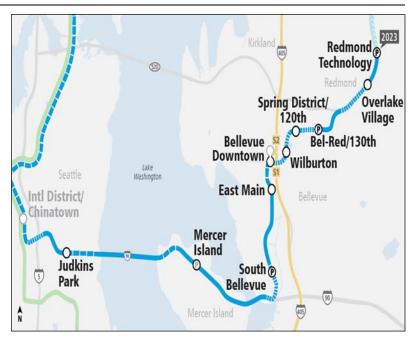
Systems Signals, traction electrification, and

communications (SCADA).

Phase Construction

**Budget** \$3.677 Billion (Baseline April 2015)

**Schedule** Revenue Service: June 2023



Map of East Link Extension Alignment.

#### **Key Project Activities**

- I-90 West Segment (E130): Progressed non-conforming track plinth grout pad remediation; continued repolarization and monitoring processes on floating bridge; installation of walkway at east ballasted track section; construct hydrant access on west portal of MI tunnel; advance expansion joint installation at IDS/Seattle Boulevard bridge; and various punch list and commissioning at JPS and MBT stations
- Mercer Island Transit Integration (E135): Issued Limited Notice to Proceed to contractor to initiate submittals and long lead procurements and work plans
- South Bellevue (E320): Ongoing track remediation; advance commissioning activities; progressed sign installation and motorized gate along 112th St; and ongoing punch list work
- Downtown Bellevue to Spring District (E335): Completed top soil backfill, planting south planter, and planting along 110th Ave at BDS. Continued escalator, lighting commissioning, installation of windscreen trim and chalking curtain wall at platform level, sealant platform tiles and way finders at Wilburton Station. Continued East Main Station punch list work
- **Bel-Red** (E340): Conducted rail-to-earth testing in various areas; conducted final corridor landscaping walkthrough; installed small card reader conductors and tested signals and switches along the aerial guideway
- SR520 to Redmond Technology Station (E360): Ongoing general punch list work and progressed NCR repair work including fence realignment on north side of bike path. OVS pedestrian bridge paperclip stair finishes and water proofing activities continued. Redmond Technology Station (RTS) garage formwork, columns, level 2/3 ramp beams, deck rebar work advanced
- Systems (E750): Continued submittals, component design/manufacturing/fabrication; progressed communication and signaling equipment installations at E130 and E360; Signal house delivered at E130; installed feeder cables for energization and testing; and ongoing installation of OCS wire throughout the alignment

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#### **Closely Monitored Issues**

- Repair work associated with contractor quality issues at the RTS garage and I-90 track plinths
- Design corrections, scope additions, contractor performance issues, COVID-19, and the concrete strike have contributed to belated completion of the civil contracts, necessitating unanticipated overlap with systems work.
- Contractor claims on E320, E335 and E340 are measurable.
- Staff and consultant attrition and/or loss to other projects increases the risk of oversight "blindspots."

#### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

The Estimated Final Cost (EFC) remains the same at approximately \$3.68B. This period's estimated expenditure effectively netted out to \$13.7M, the total expenditure to date increase from \$3.07B to \$3.08B. Project commitment remains at approximately \$3.2B with all major construction contracts in place.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$186.2	\$186.2	\$118.4	\$117.7	\$186.2	\$0.0
Preliminary Engineering	\$55.9	\$55.9	\$54.8	\$54.8	\$55.9	\$0.0
Final Design	\$283.0	\$283.0	\$250.7	\$240.6	\$283.0	\$0.0
Construction Services	\$257.5	\$254.6	\$208.5	\$197.8	\$254.6	\$2.8
3rd Party Agreements	\$52.2	\$52.2	\$38.4	\$34.9	\$52.2	\$0.0
Construction	\$2,544.3	\$2,547.1	\$2,271.0	\$2,156.8	\$2,547.1	(\$2.8)
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$298.2	\$298.2	\$279.6	\$279.3	\$298.2	(\$0.0)
Total	\$3,677.2	\$3,677.2	\$3,221.4	\$3,081.9	\$3,677.2	(\$0.0)

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$744.6	\$979.8	\$909.3	\$910.2	\$941.5	(\$196.8)
20 Stations	\$397.7	\$485.7	\$465.5	\$445.0	\$481.1	(\$83.4)
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$808.5	\$575.6	\$508.9	\$469.3	\$574.1	\$234.4
50 Systems	\$353.8	\$372.4	\$347.9	\$298.0	\$379.9	(\$26.1)
Construction Subtotal (10 - 50)	\$2,304.6	\$2,413.5	\$2,231.5	\$2,122.4	\$2,376.5	(\$71.9)
60 Row, Land	\$288.5	\$288.5	\$279.6	\$279.3	\$288.5	\$0.0
70 Vehicles (non-revenue)	\$2.8	\$2.8	\$1.0	\$0.8	\$2.8	\$0.0
80 Professional Services	\$898.4	\$885.8	\$709.2	\$679.4	\$885.3	\$13.1
90 Unallocated Contingency	\$182.9	\$86.6	\$0.0	\$0.0	\$124.0	\$58.8
Total (10 - 90)	\$3,677.2	\$3,677.2	\$3,221.4	\$3,081.9	\$3,677.2	(\$0.0)

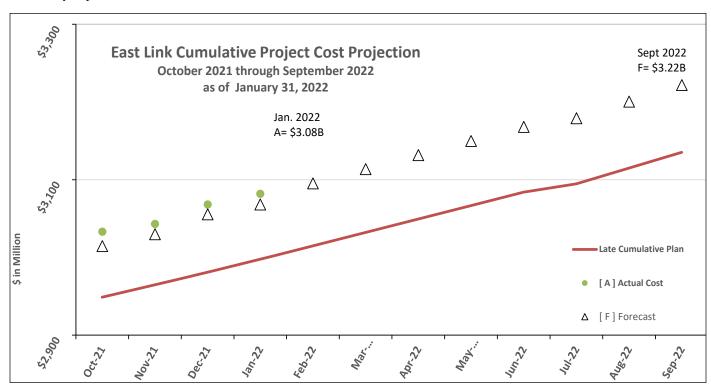
Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Project Cash Flow Projection**

The East Link cost projection continues to progress within the planned expenditure as construction activities continue to pick up. This period's project expenditure netted \$13.7M. Total project cost incurred progressed to \$3.08B, of which the Construction Phase's share is now a little over \$2.1B. The project expenditures continue to pick up and are predicted to rise to approximately \$3.22B by September 2022.



#### Risk Management

The Risk and Contingency Management Plan (RCMP) establishes a risk management and oversight process for identifying, assessing, and monitoring risks and develops risk reduction/mitigation plans. It provides a tool for the project team to proactively manage risks on the project. It is ST's responsibility for continuously monitoring project status and associated risks.

A Quantitative Risk Assessment (QRA) workshop was completed in October 2020. The QRA Report was finalized with results documenting a good confidence that ELE will complete within the baseline cost and scheduled Revenue Service Date. The next QRA is currently planned to occur in Q2/Q3 2022. The project has Q4 qualitative risk register updates currently being updated.

The following are the top risks areas that may impact project cost and schedules:

- Externalities: COVID-19; Unhoused Encampments; Concrete Strike, Contractor quality issues.
- Design Changes: Late emerging interface issues between civil and systems work, changing permit conditions with vertical transportation and tunnel systems, additional scope items required for new safety and/or operating requirements.
- Pre-Revenue Schedule Clarity: Fully integrated schedule detailing all activities prerequisite to revenue operations required to analyze risk to revenue service date.
- Loss of Key Personnel: Loss of key personnel, including key consultants, to other projects, creates risk around oversight and administration of project.

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#### **Contingency Management**

East Link project budget was baselined on April 2015 with a total contingency of \$795.9M. All major construction contracts have been procured and the total contingency balance stands at \$307.3M (previously \$39.1M). The current contingency balance is consistent with the project's planned contingency drawdown.

**Design Allowance** (**DA**) was established to account for unquantified scope at the time of the cost estimate. DA remains at \$1.3M. DA is expected to be fully drawn down at the end of the project.

Allocated Contingency (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period, the AC balance shows a net decrease of approximately \$1.8M due to construction and construction support changes.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC balance remains at \$130.0M.

#### **Contingency Status**

Contingency	Baseline		Current Status	
Туре	Amount	% of Total Budget	Amount Remaining	% of Work Remaining
Design Allowance	\$184.1	5.0%	\$0.9	0.1%
Allocated Contingency	\$428.9	11.7%	\$182.4	30.6%
Unallocated Contingency	\$182.9	5.0%	\$124.0	20.8%
Total	\$795.9	21.6%	\$307.3	51.6%

#### **Contingency by Type**

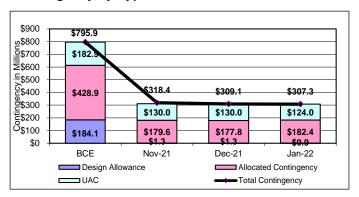
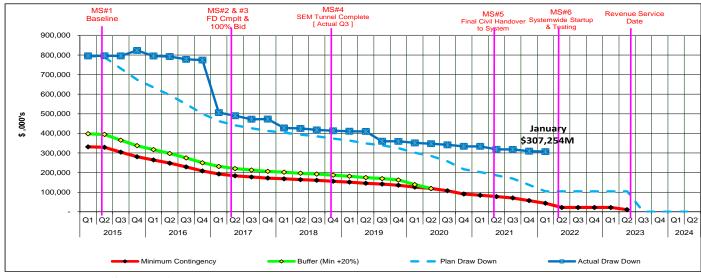


Table figures are shown in millions.

#### **Contingency Drawdown**

East Link Project's total contingency drawdown continues to trend within plan with an overall contingency balance approximately at \$307.3M (previously \$309.1M). With all major construction contracts procured, it remains above the baseline drawdown projection and well above both the minimum contingency and the buffered (minimum plus 20%) contingency levels. The contingencies at the end of December represented the monthly net decrease about \$1.8M due to various construction and construction support changes.



Contingency Drawdown as of January 31, 2022

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#### **Project Schedule**

The Integrated Master Schedule is presented below. Weighted percent complete of the major construction contracts is calculated at 95.8%.

**E130** continued track plinth grout pad remediation; commissioning and punch list work.

E320 continued landscaping and irrigation; acoustical panel repair; project closeout.

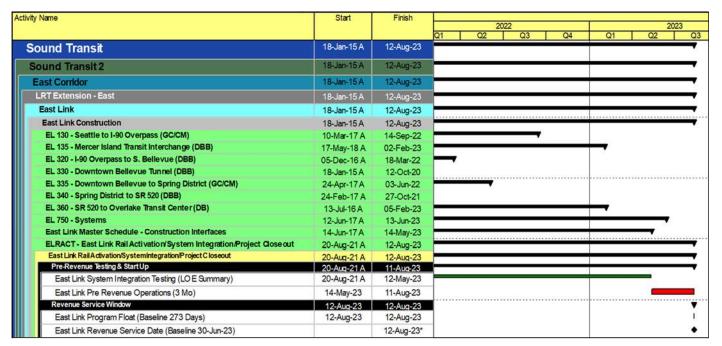
E330 has achieved final acceptance.

E335 continued finish work at BDS; commissioning and punch list at E. Main, Wilburton, and 120th.

E340 performed testing and punch list, repair, and closeout work throughout the alignment.

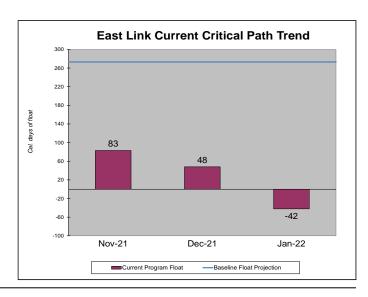
E360 continued punch list and repair work all along the alignment; continued RTS garage crack repair where possible.

**E750** continued installation of communications systems at most stations; pulling signal cables; factory tested several signal houses; installation and testing of fiber optics.



#### **Project Float**

East Link was baselined with 273 days of program float, and is currently forecast to finish 42 days behind the target Revenue Service Date of June 30, 2023. As work continues on the E130 plinth remediation, the need for additional repair work has been discovered, which has added several weeks to the schedule; a correction to the logical sequence from the end of the E750 contract to the beginning of pre-revenue operations has also added some time. Together, these impacts have resulted in a reduction of 90 days of float from the previous month. Sound Transit is working closely with both the E130 and E750 contractors to mitigate this impact wherever possible.



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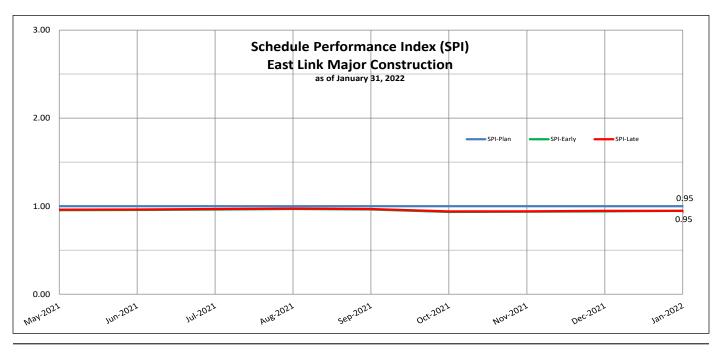
#### **Critical Path Analysis**

The East Link critical path this month continues to run through track remediation on E130, which is holding up E750 access to complete OCS and signal installation. Additional deficiencies continue to be discovered, which may result in an even longer path to completion. Other East Link civil contracts continue to be closely monitored for potential impacts to the E750 schedule.



#### Schedule Performance Index

The Schedule Performance Index (SPI) for East Link's Major Construction Packages (both early and late) is at 0.95 as contractors focus on repairs, punch lists, and closeout. This number will trend steadily towards 1.0 in the coming months.



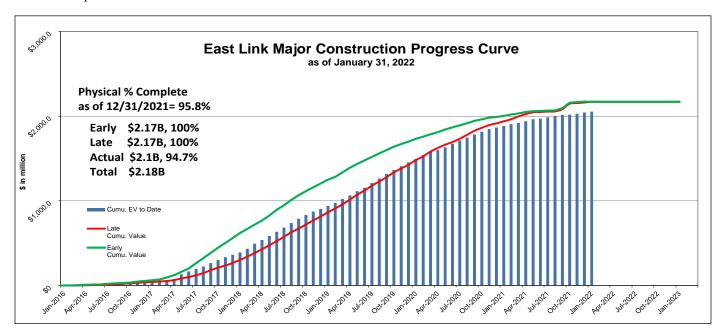
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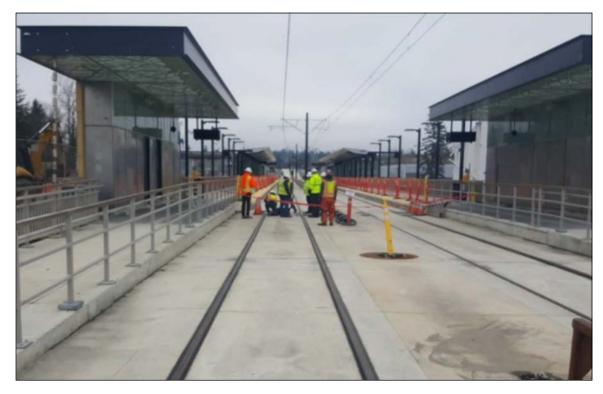


#### **Major Construction Progress Curve**

The overall physical percent complete for East Link construction is 95.8%.

The percent complete analysis is based on a weighted measurement among the seven major construction contracts' schedule, duration and cost. The graph below shows the aggregate cost progression for these construction contracts. Progress is trending behind the planned curves. The rate of progress is slow as all civil contracts are above 95% complete and remaining work is limited to repairs and closeout.





E340 Bel-Red: E340 Contractor conducting Rail to Earth testing on the embedded track section at the !30th St Station .

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#### **Community Engagement**

- Ongoing distribution of weekly construction alerts for maintenance of traffic activities for Mercer Island, Bellevue and Redmond. Communicated with numerous neighbors about upcoming major traffic changes. January's focus included, but not limited to, coordination of Surrey Down sing monument movement; Bellfield residential tree issues, working with HOPE Team on unsheltered outreach and emergency rail replacement in IDS.
- Ongoing engagement with individual property owners, members of the public and impacted neighbors on a variety of concerns including property acquisition, construction easements, nighttime noise, traffic, access, and maintenance of traffic.

#### Right-of-Way

The East Link Extension involves the acquisition of a range of property interests including fee acquisitions for stations, guideway, staging areas, support facilities, and tunnel and guideway easements as well as permanent and temporary easements for construction. These acquisitions resulted in owner and tenant residential and commercial relocations. Property acquisition and relocations are mostly complete, with limited processing of relocation claims and coordination of property transfers with the City of Bellevue remaining. The right-of-way program status for this period is summarized in the following table:

East Link Extension Acquisition Status					
ACQUISITION			RELOCATION		
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date
239	246	239	239	229	229

\*All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of the report periods.

Total Acquisitions: Defined as parcels recognizing only land, not owners

Board Approved: Based on parcels and properties (including multi-unit acquisitions)

Offers/Closings: Based on inclusive offers made to separate owners and interest holders

Relocations: Based on number of affected individuals

### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Consultant utilization is dependent on the efforts to manage construction. The monthly average is trending over the plan and is predicted to decline over time. The current overage is not indicative of an immediate budget overage. That said, the longer than anticipated construction duration coupled with the prolonged COVID-19 pandemic situation, the more labor resource it will take to reach the finishing line and the trickier to predict how the staffing plan will unfold

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	52.2	56.2	(4.0)
Consultants	97.5	132.3	(34.8)
TOTAL	149.7	188.5	(38.8)

\* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

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#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

### **Construction Safety**

Data/ Measure	January 2022	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	91	
Days Away From Work Cases	0	0	15	
Total Days Away From Work	0	0	1,337	
First Aid Cases	2	2	295	
Reported Near Mishaps	0	0	293	
Average Number of Employees on Worksite	393	-	-	
Total # of Hours (GC & Subs)	43,892	43,892	7,547,916	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00	2.41	
LTI Rate	0.00	0.00	0.40	
Recordable National Average		2.50		
LTI National Average	1.10			
Recordable WA State Average	5.20			
LTI WA State Average 2.90				

Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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#### **Major Construction Contract Packages**

Below are the major construction contract packages for the project with a brief scope description of each.

R8A Stage 3A – Modification of HOV Ramp between I-90 and Bellevue Way SE. [Design-bid-build].

Status: Completed and Closed.

**E130 Seattle to South Bellevue** – International District Station (IDS) modification, Retrofit of existing WSDOT structures, I-90 Center Roadway and two light rail stations. [Heavy Civil GC/CM]

Status: See following pages under Contract E130.

**E320 South Bellevue** – One light rail station and a parking garage at South Bellevue P&R; aerial, at-grade and retained-cut guideway along Bellevue Way SE and 112th Avenue SE. [Design-bid-build]

Status: See following pages under Contract E320.

E330 Downtown Bellevue Tunnel – SEM Tunneling along 110th Ave. NE in Downtown Bellevue. [Design-bid-build]

Status: Substantial Completion on July 13th, 2020. Acceptance Issued on November 17th 2020.

**E335 Downtown Bellevue to Spring District** – Four light rail stations; aerial, at-grade and retained-cut guideway from Downtown Bellevue, over I-405 to 124th Ave. NE. [Heavy Civil GC/CM]

Status: See following pages under Contract E335.

E340 Bel-Red – One light rail station, aerial and at-grade guideway from 124th Ave. NE to NE 20th. [Design-bid-build]

Status: See following pages under Contract E340.

**E360 SR520 to Redmond Technology Station** – Two light rail stations; aerial and retained-cut guideway along SR-520 in the Overlake area of Bellevue and Redmond. [Design-Build]

Status: See following pages under Contract E360.

**E750 Systems** – Light rail systems elements, including Traction Power Electrification, Overhead Catenary System, Train Signals and Communication System. Combined with Northgate Link N830. [Heavy Civil GC/CM]

Status: See following pages under Contract E750



E750 Systems: Commencement of Systems Integration testing with LRV clearance

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#### Contract E130 - Seattle to South Bellevue Heavy Civil GC/CM

#### **Current Progress**

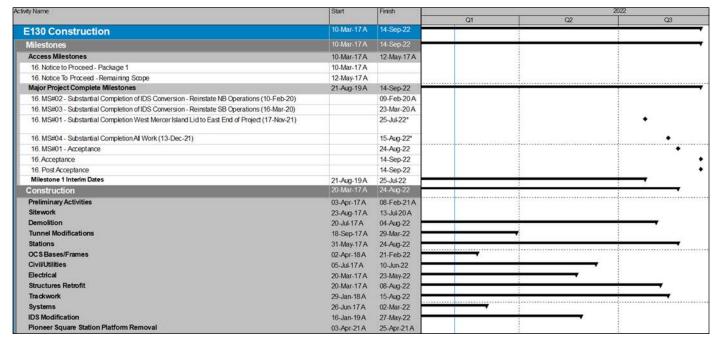
**West Segment:** Continue punchlist and commissioning at JPS and MBT; advance expansion joint installation at IDS/Seattle Boulevard bridge; progress non-conforming track plinth grout pad remediation

**Center Segment:** Continue repolarization and monitoring processes on floating bridge; progress non-conforming track plinth grout pad remediation

**East Segment:** Continue pedestrian walkway installation at east ballasted track section, hydrant access construction at the west portal of MI tunnel, and punchlist items; progress non-conforming track plinth grout pad remediation

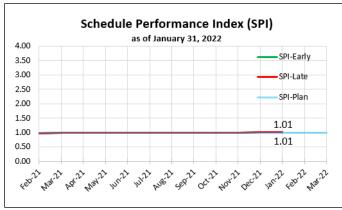
#### **Schedule Summary**

The January update forecasts a August 15, 2022, Substantial Completion date, 245 calendar days later than the contractual milestone date of Dec. 13, 2021. Within the E130 contract schedule, the critical path is driven by track remediation scope on the floating bridge. ST continues to work with the contractor to mitigate impacts to follow-on work by E750.



#### **Schedule Performance Index**

Through January, reported cumulative SPI (both early and late) is at 1.01. The E130 Substantial Completion (SC) for All Work (Milestone 4) is Dec. 13, 2021, although the contract now projects SC in Q3 2022. At this final stage of the project, the SPI calculation tends to converge to an index of 1.0. Remaining work is primarily focused on track remediation scope, commissioning, and other punch list items.



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#### **Next Period's Activities**

- West Segment: Miscellaneous punch list, commissioning; continue plinth grout pad remediation
- Center Segment: Repolarization and monitoring at HMH bridge; continue plinth grout pad remediation
- **East Segment**: Miscellaneous punch list, commissioning; continue plinth grout pad remediation

#### **Closely Monitored Issues**

- Activity progress to reach Milestones 1, 3 & 4; resultant impacts to E750
- Direct COVID-19 impacts
- NCR mitigation timeline for track plinth grout pads
- IDS: rail grinding, Milestone 3 resolution
- Concrete strike

#### **E130 Construction Segments**



#### **Cost Summary**

Present Financial Status	Amount*	
E130 Contractor - Kiewit-Hoffman		
Original Contract Value (incl. Phase 2 MACC)	\$665,000,000	
Change Order Value	\$44,750,167	
Current Contract Value*	\$707,870,805	
Total Actual Cost (Incurred to Date)	\$698,705,626	
Percent Complete	96.8%	
Authorized Contingency	\$56,660,541	
Contingency Drawdown	\$44,750,167	
Contingency Index	1.2	

Ongoing NCR track work remediation at the East Channel
Bridge

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<sup>\*</sup> Contract Value excludes Betterments



#### Contract E320 - South Bellevue

#### **Current Progress**

I-90 Flyover: Ongoing punchlist items

Bellevue Way SE: Ongoing punchlist items

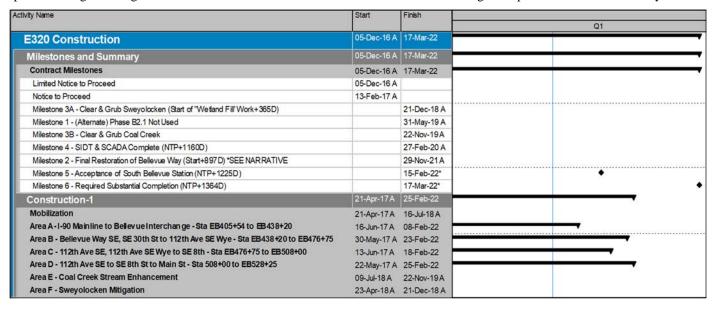
S. Bellevue Sta./P&R: Advance commissioning activities

Wye-to-East Main: Progress sign installation, motorized gate installation in fence along 112<sup>th</sup> St

Track Work: Ongoing NCR remediation

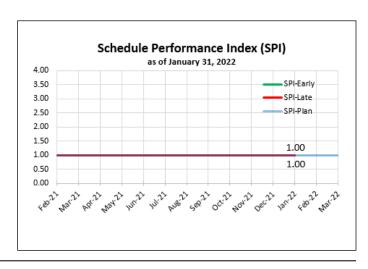
#### **Schedule Summary**

The January update forecasts a March 17, 2022, Substantial Completion date, 433 calendar days later than the contractual milestone date of Jan. 8, 2021. Within the E320 contract schedule, the critical path is driven by repair work to some acoustical panels damaged during winter storms. ST continues to work with the contractor to mitigate impacts to follow-on work by E750.



#### Schedule Performance Index

E320 base plan called for a Substantial Completion date of November 2020. The contract is now projecting a Substantial Completion of late Q1 2022. At this final stage of the project, the SPI calculation tends to converge to an index of 1. South Bellevue Garage is effectively complete. Remaining work is primarily focused on rework of track issues that require remediation, commissioning, and miscellaneous punch list items.



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#### **Next Period's Activities**

- I-90 Flyover: Install TPSS gates
- Bellevue Way SE: Ongoing area maintenance and punch list
- S. Bellevue Sta./P&R: Ongoing area maintenance and punch list
- Wye-to-East Main: Ongoing area maintenance and punch list
- **Track Work:** Direct fixation track non-compliant items and remediation

#### **Closely Monitored Issues**

- Resolution to RFC 226 R3 Project Wide Disruptions
- COVID-19 impacts
- Resolution to Substantial Completion date
- E750 contractor access



### **Cost Summary**

Present Financial Status	Amount		
E320 Contractor - Shimmick/Parsons JV.			
Original Contract Value	\$319,859,000		
Change Order Value	\$11,727,192		
Current Contract Value*	\$331,551,938		
Total Actual Cost (Incurred to Date)	\$328,509,125		
Percent Complete	98.6%		
Authorized Contingency	\$38,532,000		
Contingency Drawdown	\$11,727,192		
Contingency Index	3.2		

<sup>\*</sup>Contract Value excludes betterments and START



Track to earth testing at the ballasted double crossover section

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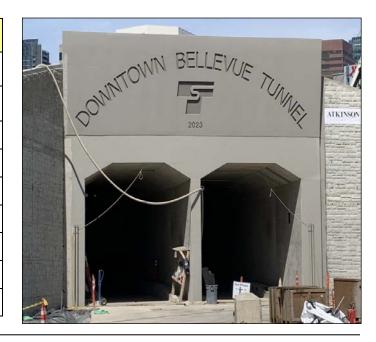
## Contract E330 - Downtown Bellevue Tunnel - Completed & Accepted

- E330 Contractor achieved Substantial Completion on July 13th, 2020.
- Sound Transit issued Final Acceptance to contractor on November 17th, 2020.



## **Cost Summary**

Final Financial Status	Amount						
E330 Contractor- Guy F Atkinson Construction, LLC.							
Original Contract Value	\$121,446,551						
Change Order Value	(\$1,109,096)						
Current Contract Value	\$120,337,455						
Total Actual Cost	\$120,337,455						
Percent Complete	100%						
Authorized Contingency	\$13,256,330						
Contingency Drawdown	(\$1,109,096)						
Contingency Index	N/A						



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#### Contract E335 - Bellevue to Spring District Heavy Civil GC/CM

#### **Current Progress**

**East Main Station:** Completed installation of gutters, swing gate door commissioning, and sealing of glass canopies. Continued electrical commissioning, installing hand rails at crossing and completed catch basins at South Portal Electrical Building. Continue installing seal joints, paint touch up, station cleanup and secure bike racks.

**Bellevue Downtown Station (BDS):** Completed top soil backfill, planting south planter, and planting along 110th Ave. Continued installation of surface level kiosk metal panel and site cleanup, sealant tile on platforms, install public stairs hand rails. Installed bike shelter metal infill panels and remove conex from site.

Wilburton Station: Continued escalator, lighting commissioning, installation of windscreen trim and chalking curtain wall at platform level, sealant platform tiles and way finders. Commenced installation hardscape railing, ceiling tile above plaza, paint touchup and structural punch lists. Completed Metal panel caulking at plaza level, paint touch up and door hardware installation.

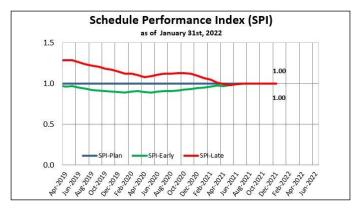
#### Schedule Summary

The January update forecasts a June 3, 2022, Substantial Completion date, 383 calendar days later than the contractual milestone date of May 16, 2021. Within the E335 contract schedule, the critical path is driven by switchgear at BDS, followed by tunnel commissioning. The E750 contractor has access to most work areas.

ctivity Name	Start	Finish		
			Q1	Q2
E335 Construction	24-Apr-17A	03-Jun-22		
Milestones	04-May-18 A	03-Jun-22		
Contract Milestones	30-Sep-18 A	03-Jun-22		
Milestone #1 - Complete North Portal Headwall Temporary Shoring		30-Sep-18 A		
Milestone #2 - Complete SIDT's for Interface to SCADA		14-Jan-20 A		
Milestone #3 - Complete Trackway and Stations for Primary Systems Access - BTC to EOP (18-Jul-21)		27-Feb-22*	•	******************
Milestone #4 - Complete SEM Tunnel Trackwork for Primary Systems Access (16-Jan-21)		14-May-22*		•
Milestone #5 - Complete All Trackway and Stations for Primary Systems Access (16-Mar-21)		14-May-22*		•
Milestone #6 - Substantial Completion of all Work (16-May-21)		03-Jun-22*		
Calculated Milestones	04-May-18 A	03-Jun-22		
Mobilization	24-Apr-17A	24-Apr-17A		
Construction	24-Apr-17A	04-May-22	<del>-      </del>	<del></del>
Area 1: E. Main Station to South Portal (531+55 - 538+00)	11-Oct-17 A	14-Feb-22	<del></del>	
Area 2: South Portal to SEM Tunnel (538+00 - 562+47.91	24-Aug-18A	03-May-22		<del></del>
Area 3: North Portal to Aerial Guideway (562+50 - 568+45)	24-Apr-17A	04-May-22		<del></del>
Area 4: Aerial Gu ideway (568+45 - 606+59)	24-Apr-17A	06-Apr-22		****************
Area 5: Pine Forest to 120th (606+59 - 619+00)	07-Jul-17 A	08-Oct-21A		
Area 6: 120th - End of Project (619+00 - 634+99)	01-Aug-17A	14-Feb-22	<del></del>	
Testing and Commissioning	01-Jun-20 A	15-Dec-21 A		

#### **Schedule Performance Index**

E335's base plan called for a Substantial Completion date of May 2021. The contract is now projecting a Substantial Completion of Q2 2022. At this final stage of the project, the SPI calculation tends to converge to an index of 1.0. Remaining work is primarily focused on the delayed base work at BDS and Wilburton stations, the wiring and termination of the mid-tunnel fans, and the follow-on commissioning and punch list work.



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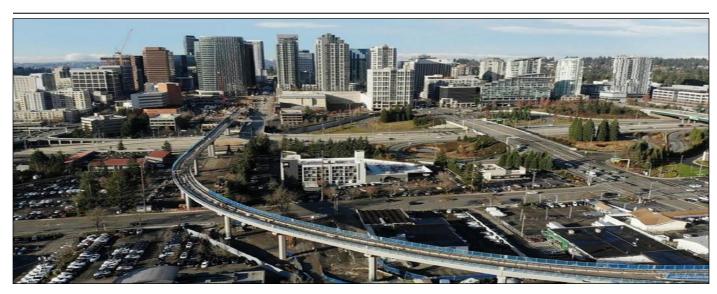


#### **Next Period's Activities**

- East Main Station: Continue on site security, erosion and maintenance, replace and repair broken tiles, punch lists item and site cleanup.
- **BDS:** Commissioning temp. power and plumbing. sealant tile on platforms, install public stairs hand rails. Install conduit for hoist light and smoke detectors.
- Wilburton Station: Continue commissioning activities, installing handrail for public stairs, egress stair gates.
   Complete unfinished handholds and doorframes, elevator entrance tiles throughout station.

#### **Closely Monitored Issues**

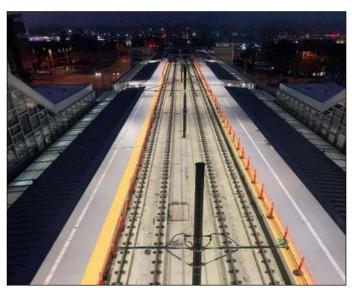
- Continued inefficiencies in adhering to COVID-19 safety requirements will continue to impact progress.
- The Contractor has received numerous correction notices from the City of Bellevue electrical inspector regarding code compliance issues related to the smoke control system and tunnel jet fan electrical disconnects. The code compliance issues are being addressed via work directives and the designer team is currently working on submitting an Alternate Materials, Methods or Modification Request (AMMMR) to the City to justify their design.



East Link- E335 alignment Downtown Bellevue to Spring Blvd.

#### **Cost Summary**

Present Financial Status	Amount							
E335 Contractor— Stacy & Witbeck/Atkinson Joint Venture (SWA-JV).								
Original Contract Value (includes station scope)	\$393,798,210							
Change Order Value	\$24,451,011							
Current Contract Value	\$418,249,221							
Total Actual Cost (Incurred to Date)	\$406,325,556							
Percent Complete	99.3%							
Authorized Contingency	\$29,689,911							
Contingency Drawdown	\$24,451,011							
Contingency Index	1.2							



Bellevue Downtown Station platforms

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#### Contract E340 - Bel-Red

#### **Current Progress**

Kelsey Creek Mitigation Area: Conducted punch list work. Conducted final mitigation landscaping walkthrough.

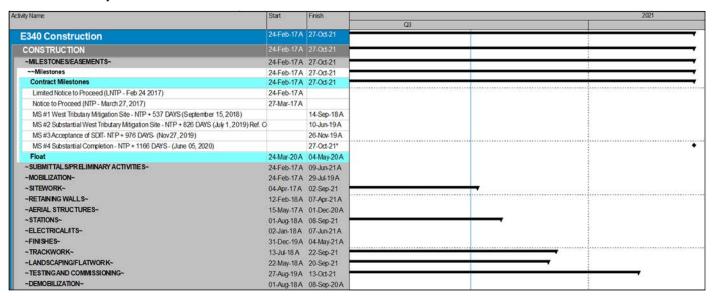
**130th Ave Station:** Conducted rail-to-earth (RTE) testing. Installed grounding conductor for signage. Installed smart card reader conductors. Addressed station punch list items.

**NE Spring Blvd:** Conducted RTE testing. Addressed corridor planting punch list items. Conducted final corridor landscaping walkthrough.

**System Scope**: Tested signals along the aerial guideway.

#### Schedule Summary

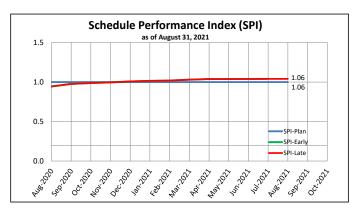
The August update forecasts an October 27, 2021 Substantial Completion date, 510 calendar days later than the contractual milestone date of June 05, 2020. Subsequent updates have not yet been received. The contractor did not pass rail-to-earth testing in January 2022, so further remediation work is underway. ST continues to work with the contractor to mitigate impacts to follow-on work by E750.



#### **Schedule Performance Index**

E340's base plan called for a Substantial Completion date of June 2020. The contract is now a year past the plan date. At this stage, the SPI calculation has a mathematical tendency of convergence to an index of 1.0 at this late stage of the project.

Remaining work in E340 is limited to the lower cost closeout scope including commissioning work and punch lists. The project team is diligently monitoring completion despite the contractor being late with their schedule submittal.



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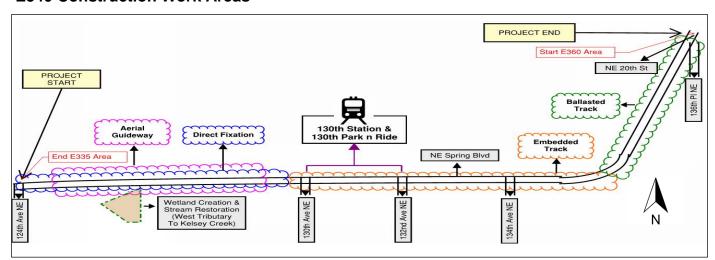
#### **Next Period's Activities**

- Kelsey Creek Mitigation Area: Conduct punch list work.
- **130th Ave Station:** Conduct RTE diagnostic testing. Address station punch list items.
- **NE Spring Blvd:** Address corridor planting punch list items. Conduct RTE diagnostic testing.
- **136th Pl NE:** RTE test. Address planting punch list items.
- System Scope: Test signals and switches along the aerial guideway.

### **Closely Monitored Issues**

- There are non-compliant tracks in various stages of construction. The Contractor conducted the RTE testing. Needs to discuss the results of the testing and steps forward for diagnostic testing and repair.
- There are several Temporary Construction Easements (TCE) with upcoming expiration dates. The contractor needs to work out an agreement with the property owners where extensions are not yet granted and work has not been completed.

#### E340 Construction Work Areas



#### **Cost Summary**

Present Financial Status	Amount							
E340 Contractor- Max J Kuney								
Original Contract Value	\$93,170,012							
Change Order Value	\$9,285,745							
Current Contract Value	\$102,455,757							
Total Actual Cost (Incurred to Date)	\$98,321,303							
Percent Complete	98.3%							
Authorized Contingency	\$14,317,000							
Contingency Drawdown	\$9,285,745							
Contingency Index	1.52							



Rail-to-Earth testing in station area facing east.

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#### Contract E360 – SR 520 to Redmond Technology Station (RTS)

#### **Current Progress**

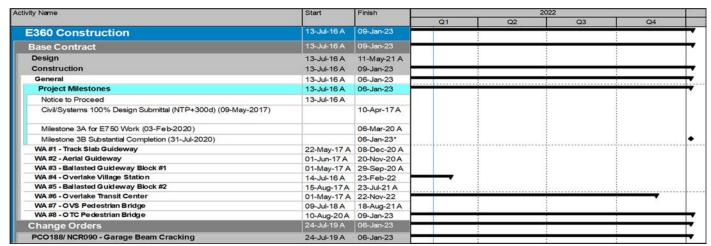
Design: Notice of Design Change work includes Sweeper Site Access Road and Redmond Technology Station Garage.

#### **Construction:**

- Work Area (WA) #1: Park Place and Sweeper Site Vaults punch list work is ongoing.
- WA #2: Aerial Guideway punch list work advancing. At grade additional grounding for OCS foundations.
- WA #3/4: Overlake Village Station (OVS) punchlist and NCR repair work progressing. Fence realignment on north side of WSDOT bike path.
- WA #6: Redmond Technology Station punch list and NCR repair work continues. Garage columns, formwork, level 2/3 ramp beams, and deck rebar.
- WA #7: OVS Pedestrian Bridge paperclip stairs finishes and water proofing advancing.

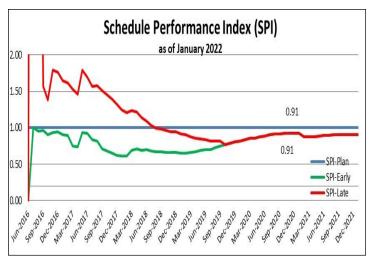
### Schedule Summary

The January update forecasts a January 06, 2023, Substantial Completion date, 889 calendar days later than the contractual milestone date of July 31, 2020. Within the E360 contract schedule, the critical path is driven by repairs to the RTS garage, which is currently being delayed by the concrete strike. E750 has been granted access to all critical work areas.



#### **Schedule Performance Index**

E360 base plan called for a Substantial Completion date of July 2020. The contract is now projecting a Substantial Completion of Q4 2022. At this final stage of the project, the SPI calculation tends to converge to an index of 1. The lagging in the SPI is primarily due to the impasse on the commercial resolution of the deleted RTS Pedestrian Bridge work that is still part of the EV plan. Also, the Substantial Completion has been held back due to the necessity of the partial rebuilt of the RTS Garage. Remaining EV work on the contracted work ranges from commissioning to miscellaneous punch list. The project team is diligently monitoring completion and Systems has access to this segment of their work.



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#### **Next Period's Activities**

- WA #1: Park Place and Sweeper Site punch list
- WA #2: Aerial Guideway punch list work
- WA #3/4: Punch list work/NCR Repair Work
- WA #5: All major construction work complete
- WA #6: Punch list items. RTS Garage Repair Work
- WA #7: Pedestrian Bridge stair finishes and waterproofing.

### **Closely Monitored Issues**

- Commercial issues for RTS Pedestrian Bridge, City of Redmond CDF Trench Backfill
- Schedule delays for Building Management Systems E340/E360 Interface, January & February weather events
- RTS Garage Repair
- Milestone 3A and 3B delays
- COVID Impacts
- Concrete strike

#### **E360 Construction Work Areas**



## **Cost Summary**

Present Financial Status	Amount
E360 Contractor— Kiewit-Hoffman	
Original Contract Value	\$225,336,088
Change Order Value	\$9,742,989
Current Contract Value	\$235,079,077
Total Actual Cost (Incurred to Date)	\$218,409,588
Percent Complete	96.1%
Authorized Contingency	\$22,533,609
Contingency Drawdown	\$9,742,989
Contingency Index	2.1





WA 6— RTS Garage Level 3/4 Rebar

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#### Contract E750 - Systems Heavy Civil GC/CM

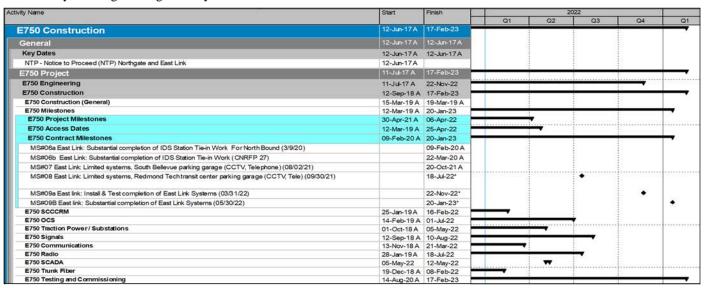
#### **Current Progress**

The E750 Contractor, Mass Electric Construction Co. (MEC), continued to prosecute the work as follows:

- Continue development and reviews of engineering submittals covering all disciplines: Traction Power Substations (TPSS), Overhead Catenary Systems (OCS), Train Control Signal Systems and Communications.
- Ongoing coordination meetings for interface and access points for respective contracts.
- Installed cable, devices, PA devices, conduit, VMS, and pulled cable at E130 and E360 civil segment.
- Performed testing and signal cable pulling at E130 and E360 civil segments. Set Signal House at E130 civil segment.
- Installed OCS equipment, post wire and performed testing at E130 and E360 civil segment.
- House prep work and pulled cable at E130 and E360 civil segment.

#### **Schedule Summary**

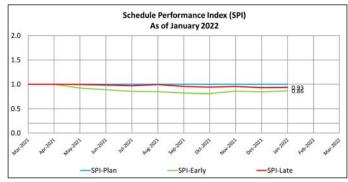
The December update forecasts a Jan. 20, 2023, Substantial Completion date, 236 calendar days later than the contractual milestone date of May 30, 2022. A January update has not yet been received, as the contractor is working to mitigate continued delays in civil handover. Currently, the critical path is driven by track handover from the E130 contractor. ST and the contractor are actively working to mitigate delays in access to critical work areas.



#### **Schedule Performance Index**

Performance is for January 2022. The SPI-Early is 0.86 and SPI-Late is 0.93. The SPI index indicates the contractor is behind early planned work and is starting to somewhat slip on the late plans compared to the baseline plans.

The lagging is due to challenges in expected access to civil segments, especially with E130 and access to the floating bridge as well as the contractor's own delays in procuring long-lead items. The ELE team continues to monitor and is evaluating various mitigation option should the late plans continue to slip further.



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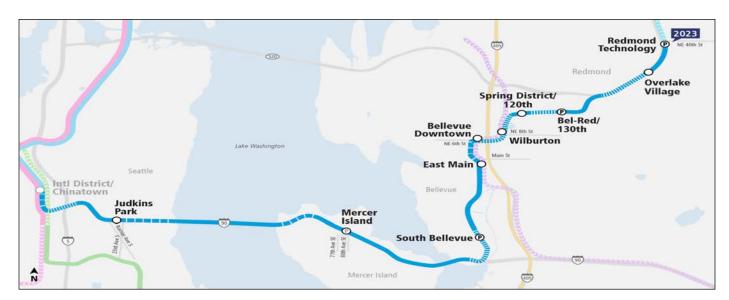


#### **Next Period's Activities**

- Continue development and reviews of engineering submittals covering all disciplines: TPSS, OCS, Train Control Signal Systems and Communications.
- Ongoing meetings between systems and civil contractors for interface and access points for respective contracts.
- Ongoing installation of feeder cables for energization and local testing.
- Ongoing installation of OCS cabling and pole installation throughout the alignment.

#### **Closely Monitored Issues**

- Monitoring conduit handover from civil to systems contractor; mitigation steps have been taken to survey all conduits and to work closely to rectify the situation.
- Civil contractors are currently reporting some form of delay or partial completion on the System Access Dates.
- Contractor's labor ramp up is insufficient to meet the planned construction activities. The planned to actual labor ramp up is being monitored.
- COVID-19 impacts continue to be monitored.



## **Cost Summary**

Present Financial Status	Amount						
E750 Contractor - Mass Electric Construction Co.							
Original Contract Value	\$255,768,128						
Change Order Value	\$7,526,044						
Current Contract Value	\$263,294,172						
Total Actual Cost (Incurred to Date)	\$207,050,290						
Percent Complete	83.0%						
Authorized Contingency	\$12,788,406						
Contingency Drawdown	\$7,526,044						
Contingency Index	1.36						

<sup>\*</sup>The N830 and E750 Systems is a joint procurement. The table above represents E750 Systems only.



Installation of PA equipment at Mercer Island Station.

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### **Project Summary**

Scope

Limits The Everett Link Extension consists of 16.3

miles of light rail from Lynnwood Transit

Center to Everett Station.

Alignment The project extends Link service north

from Lynnwood City Center to the SW Everett Industrial Center, SR 526/ Evergreen Way, and Everett Station.

Stations The project includes six new stations at

West Alderwood Mall, Ash Way, 128th / Mariner, Southwest Everett Industrial Center, SR 526/Evergreen and Everett Station. The project also includes one provisional station, at SR 99/Airport Road.

Systems Signals, track electrification, SCADA

communication, Operations and

Maintenance Facility North (OMF North)

Phase Planning

**Budget** \$188 Million (Project Development—

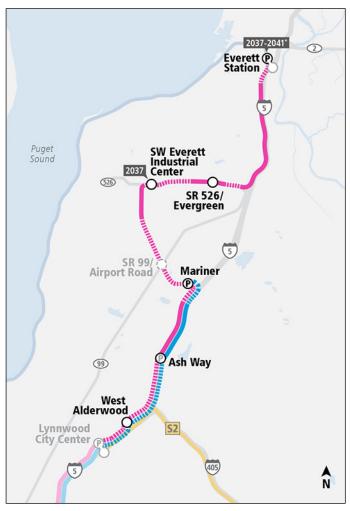
Phase 1 Alternatives Development)

Schedule Target Dates:

SW Everett Industrial Station, 2037

Everett Station, 2037

Parking at Mariner & Everett, 2046



Map of Everett Link Extension

### **Key Project Activities**

- Continued monthly meetings with FTA.
- Coordinated with partner agencies including City of Lynnwood, City of Everett, Snohomish County, Snohomish County PUD, Community Transit, Puget Sound Regional Council and WSDOT regarding Alternatives Development process.

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#### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

During the annual budget cycle \$2.9M was added to the project to fund work for deliverable related to the FTA TOD pilot program. The current Authorized Project Allocation is for completion of preliminary engineering. In January 2022, \$0.59M was incurred. The major project expenditures were for administration and preliminary engineering.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$34.2	\$3.3	\$3.1	\$34.2	\$0.0
Preliminary Engineering	\$128.5	\$15.8	\$7.2	\$128.5	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$13.2	\$0.4	\$0.1	\$13.2	\$0.0
Construction	\$1.0	\$0.6	\$0.6	\$1.0	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$11.1	\$0.3	\$0.3	\$11.1	\$0.0
Total	\$188.0	\$20.4	\$11.3	\$188.0	\$0.0

#### **Cost Summary by SCC**

SCC Element	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$1.0	\$0.6	\$0.6	\$1.0	\$0.0
50 Systems	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Subtotal (10 - 50)	\$1.0	\$0.6	\$0.6	\$1.0	\$0.0
60 Row, Land	\$10.0	\$0.3	\$0.3	\$10.0	\$0.0
80 Professional Services	\$160.9	\$19.5	\$10.4	\$160.9	\$0.0
90 Unallocated Contingency	\$16.1	\$0.0	\$0.0	\$16.1	\$0.0
Total (10 - 90)	\$188.0	\$20.4	\$11.3	\$188.0	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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### **Risk Management**

The following are the top project wide risks:

- ST3 estimate did not account for all potential capital component and programming needs.
- Unknown engineering challenges over lengthy and varied geography.
- Unknown ROW needs at current level of planning/design.
- Site selection for OMF North and consensus with partners may be challenging.

### **Project Schedule**

The Board of Directors announced their realignment decision in August. A target date for the extension to SW Everett Industrial Station has been set for 2037. The extension to Everett Station has a target date of 2037. Parking at Mariner and Everett has a target date of 2046. The summary schedule shown reflects the current target dates for both the LRT alignment and the OMF facility.

Activity Name	Start	Finish	1 2022 20 0 0 0	2023 Q Q Q Q Q	2024 	2025 QQQQ	2026 QQQQ	2027 	2028 QQQQ	2029 ajajaja	2030 QQQQ	2031 	2032 QQQQ	2033	2034 QQQQ	2035 QQQQ	2038 QQQQ	2037 	2038
Everett Link Ext & OMF Nort	02-Jan-17 A	31-Dec-37																	
NORTH CORRIDOR PROJECTS	02-Jan-17 A	31-Deo-37																$\neg$	
LRT Extension - North Corridor	02-Jan-17 A	31-Deo-37																$\overline{}$	$I \square$
Everett Link Extension	02-Jan-17 A	31-Dec-37																$\neg$	r = 1
Alternative Analysis - (Phase I)	02-Jan-17 A	26-Jan-23	_	•															П
Conceptual Engineering - (Phase II)	26-Jan-23	26-Sep-24		-	-														
Preliminary Engineering - (Phase III)	29-Jul-24	23-Apr-26			-		~												П
Final Design	24-Apr-26	31-Jul-30	Ш				-				_								$\Box$
Right of Way	30-Oct-28	01-May-31							•			•							П
Construction	30-Oct-28	13-Jul-36							-								~		П
Commissioning & Start-Up	14-Jul-36	31-Dec-37															-	=	П
OMF North	23-Jan-26	22-Feb-35					_									7			$\Box$
Final Design	23-Jan-26	05-Jan-30	11				_			$\overline{}$	,								П
ROW	08-Jul-28	04-Jul-29	Ш				-			~									П
Construction	08-Oct-29	28-Jun-33	Ш							•				~					$\Box$
Commissioning & Start-Up	29-Jun-33	22-Feb-35												-		•			

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#### **Community Engagement**

- Briefing to Local Initiatives Support Corporation on the Everett Link alternatives development process.
- Briefing to Community Advisory Group members unable to attend the first meeting in December.
- Continued coordination with partner agencies including City of Lynnwood, City of Everett, Snohomish County and Community Transit regarding community engagement.

### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Variance between planned and actual FTE average is expected to continue thru 2022, in accordance with the consultant schedule extension and ST realignment decisions.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	18.92	10.0	8.92
Consultants	27.0	18.4	8.6
TOTAL	TOTAL 45.92		17.52

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
	There were no board actions in January 2022	

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### **Project Summary**

Scope

Limits The Federal Way Link Extension (FWLE)

adds approximately 7.8 miles of light rail from the Angle Lake Station in the City of SeaTac to the Federal Way City Center.

Alignment The extension generally parallels SR 99 and

I-5 freeway.

Stations Station and garages at Kent/Des Moines,

South 272nd Star Lake Park-and-Ride and the Federal Way Transit Center (FWTC)

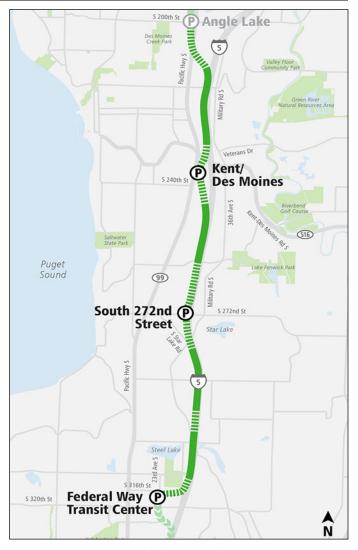
Systems Signals, traction power, and

communications (SCADA)

Phase Final Design/Construction

**Budget** \$2.451 Billion (ST Baseline Sep 2018)

**Schedule** Revenue Service: December 2024



Map of Federal Way Link Extension

## **Key Project Activities**

- F200 progress detail highlights are reflected on last two pages of FWLE section.
- Sound Transit and the Contractor continue working on potential modifications to environmental permits to allow construction for the solution to the liquefaction area at Structure C.
- Kent-Des Moines (KDM) garage 4th floor concrete deck construction on hold due to the Teamster concrete strike.
- Agency and City of Kent working toward resolving ownership and maintenance responsibilities for Pond E.
- Design ongoing for Traffic Mitigation contract and change order pending to fund remaining scope.
- Project team continued coordinating utility relocations that are necessary to avoid conflicts with Kiewit's drilled shaft work.
- PSE has lifted the transmission outage moratorium that had the potential to delay work at Structure A.

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### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

The tables below represent the Board-authorized FWLE project budget. Vehicles, P65 contingency, and finance charges included in the FTA FFGA budget of \$3.1B are not shown.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$96.5	\$96.5	\$37.7	\$37.6	\$96.5	\$0.0
Preliminary Engineering	\$46.5	\$46.1	\$45.5	\$45.1	\$46.1	\$0.0
Final Design	\$3.1	\$4.8	\$2.6	\$1.4	\$4.8	\$0.0
Construction Services	\$107.0	\$116.0	\$97.2	\$52.2	\$116.0	\$0.0
3rd Party Agreements	\$27.7	\$27.7	\$25.0	\$13.8	\$27.7	\$0.0
Construction	\$1,831.9	\$1,821.5	\$1,410.2	\$616.2	\$1,821.5	\$0.0
ROW	\$338.8	\$338.8	\$211.5	\$210.7	\$338.8	\$0.0
Total	\$2,451.5	\$2,451.5	\$1,829.8	\$977.0	\$2,451.5	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$523.0	\$155.2	\$397.2	\$153.7	\$513.4	(\$358.2)
20 Stations	\$318.9	\$105.2	\$297.7	\$102.4	\$333.7	(\$228.5)
30 Support Facilities	\$5.3	\$4.6	\$11.6	\$4.3	\$5.1	(\$0.5)
40 Sitework & Special Conditions	\$558.4	\$1,154.4	\$472.1	\$209.5	\$559.4	\$595.0
50 Systems	\$153.8	\$49.6	\$117.8	\$45.6	\$152.2	(\$102.6)
Construction Subtotal (10 - 50)	\$1,559.4	\$1,468.9	\$1,296.4	\$515.5	\$1,563.7	(\$94.9)
60 Row, Land	\$341.6	\$338.8	\$211.5	\$210.7	\$338.8	\$0.0
70 Vehicles	\$1.8	\$1.8	\$0.0	\$0.0	\$1.8	\$0.0
80 Professional Services	\$370.7	\$396.9	\$321.9	\$250.8	\$302.0	\$94.9
90 Unallocated Contingency	\$178.1	\$245.2	\$0.0	\$0.0	\$245.2	\$0.0
Total (10 - 90)	\$2,451.5	\$2,451.5	\$1,829.8	\$977.0	\$2,451.5	\$0.0

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#### **Contingency Management**

The FWLE project budget was baselined in September 2018 with a total contingency of \$549.9M. Additional contingency of \$460M (FTA P65 requirement in FFGA) is not reflected in the below contingency status. The current contingency balance is \$493.2M.

**Design Allowance** (**DA**) has been used and is no longer reported.

**Allocated Contingency** (AC) is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. During this period the AC reduced by \$2.7M due to several F200 executed change orders.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. During this period the UAC increased by \$80M due to several budget adjustments from several WBSs mainly within the Construction phase based on 2022 Adopted Budget.



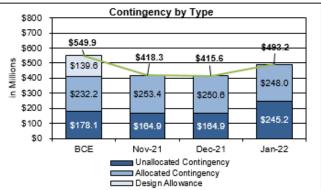
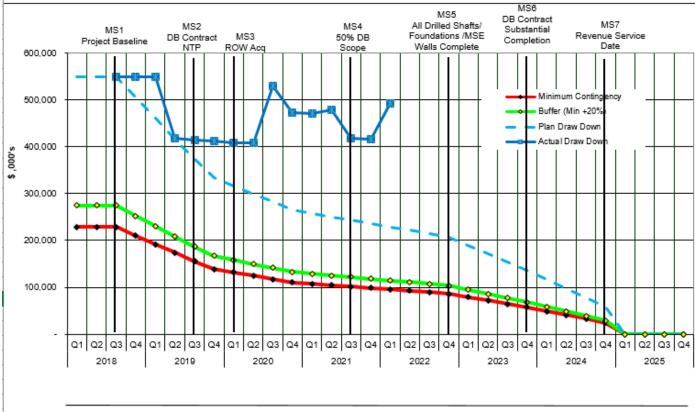


Table figures are shown in millions.





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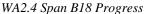


#### **Risk Management**

The following are the top project wide risks:

- Final commissioning overlap for DRLE, LLE, and FWLE may constrain resources and result in delays to Final Acceptance.
- A liquefaction zone identified at Structure C and the identified design solution could potentially result in additional cost and schedule impacts.
- As a result of limited resource availability (L&I inspectors) to achieve Gold Seal certification, certification may be delayed, impacting RSD.
- Fabrication and delivery of TPSS units is pushed out impacting construction schedule.
- The ongoing concrete strike may delay scheduled project pours and may impact construction progress.
- Items may be needed at the end of construction above current expectations and scope, impacting construction progress.
- Traffic Mitigation design and construction efforts may exceed current budget and impact schedule.
- Design and construction change requests are not implemented in a timely manner due to staff and process delays, causing additional cost to the agency and possible end results lacking Operational requirements, decreasing reliability and increasing TCO (total cost of ownership).







WA2.4 SL Garage P5 Progress

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#### **Project Schedule**

The calculated weighted percent complete of the major construction contracts is 46.87%

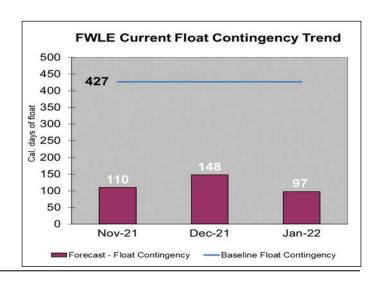
The project schedule presented below is currently under review. Right-of-Way acquisitions are nearly complete. LNTP was issued on June 7, 2019. The baseline schedule submittal was approved in January 2020. Construction NTP was issued in early May 2020. This month, the Contractor has incorporated two significant scope changes to the schedule, including CN-RFP 094 – Concrete Slab for Ballast Mat Subbase, and CNRFP 096 – Additional TPSS on the North Quadrant. Procurement of the ballast mat material is a long lead item and affects F200 contract milestones #3 and #5. Revenue Service remains on schedule for Q4 2024.



#### **Project Float**

Federal Way Link Extension was baselined with 427 days of project float. Currently, the project is reporting 97 days of project float remaining between Pre-Revenue Service and Revenue Service in December 2024.

The project float decreased from 148 days to 97 days. The decrease in project float is due to the inclusion of CN-RFP 094 – Concrete Slab for Ballast Mat Subbase. We are working with the Design Builder to accelerate the schedule impacts from CNRFP 94 (a long lead item) so there is no delay to milestones 3 & 5 and subsequently no loss of float to the revenue service date.



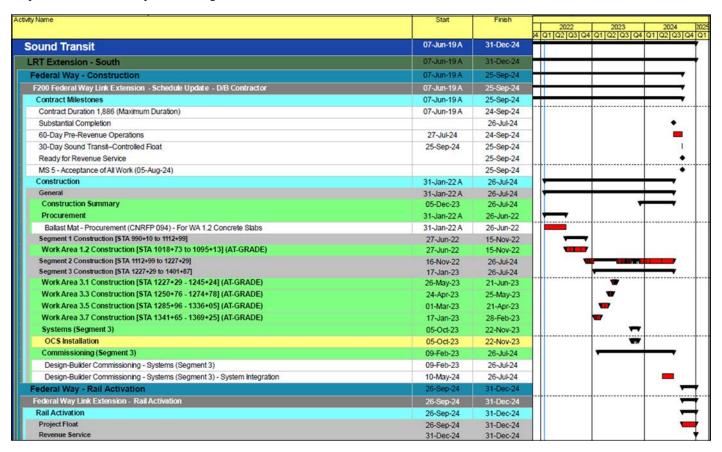
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#### **Critical Path Analysis**

The critical path to Revenue Service commences with procurement and installation of ballast mat material (CN-RFP 094), installation and testing of OCS & Signaling systems, and System Integration commissioning. Currently, procurement of the ballast mat material is driving the completion of F200 contract milestone #5 (Acceptance of All Work).

Work that is near the critical path includes SR99 precast girder procurement and installation, TPSS shop drawings and procurement, installation of TPSS S02 and associated fiber optic cable, direct fixation track in WA-1, and Structure G girder erection. In addition, FWTC station and garage structural and conveyance work remain near critical. The Teamsters Union Local 174 remains on strike and is affecting concrete work at KDM garage. Sound Transit will continue to work with Kiewit regarding the addition of more detail in the schedule. Also, the F210 Traffic Mitigation contract has been incorporated and is expected to also be completed in August 2024.



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#### Right-of-Way

The Right-of-Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations.

The Right-of-Way program status for this period is summarized in the following table.

Federal Way Link Extension Property Acquisition Status								
ACQUISITION RELOCATION								
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date			
260	353	384	313	441	432			

\*All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of the report periods.

Total Acquisitions: Defined as parcels recognizing only land, not owners

Board Approved: Based on parcels and properties (including multi-unit acquisitions)

Offers/Closings: Based on inclusive offers made to separate owners and interest holders

Relocations: Based on number of affected individuals

#### **Community Engagement**

- Held a public meeting for the removal of restrictive covenants from ST owned properties in the Mansion Hills neighborhood. Four members of the public attended and two provided public comment.
- Coordinated with the Camelot neighborhood to obtain a Right of Entry for removal of additional hazardous trees.
- Continued engagement planning for property owner outreach for the traffic mitigation program.
- Provided public communication, including construction alerts and flyers for several work activities along the alignment.
- Worked with City of Kent Human Services to address an encampment on private property adjacent to Lowes work area.
- Worked with business owner to coordinate property acquisition in City of Des Moines.
- Responded to business access concerns at Marlene's Market and Deli.





Completed property owner outreach for driveway restoration on 32nd Ave in SeaTac

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#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants, represented as a constant over the year. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Overall the project FTE is 18.2 below the staffing plan for this period. DBPM Services is over plan slightly as they address Design-Build contractor activities for change management, design and major construction oversight that involves drilled shafts, parking garages, stations and utility work. ST staff is 14.2 under plan, however there are a few vacancies in the project that are in the process of being filled.

Resource Type	Resource Type Planned FTE Monthly Average		Variance
ST Staff	44.7	30.5	14.2
Consultants	77.0	73.1	3.9
TOTAL	121.7	103.5	18.2

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
M2022-02	Granting an Easement for FL345 Owner as part of Federal Way Link Extension	01/13/2022
M2022-03	Granting an Easement for FL345 Owner as part of Federal Way Link Extension	01/13/2022
M2022-04	Granting an Easement for FL 183.1 Owner as part of Federal Way Link Extension	01/13/2022

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## **Construction Safety**

Data/ Measure	January 2022	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	5		
Days Away From Work Cases	0	0	2		
Total Days Away From Work	0	0	3		
First Aid Cases	2	2	14		
Reported Near Mishaps	1	1 1			
Average Number of Employees on Worksite	526	-	-		
Total # of Hours (GC & Subs)	70,669	70,669	889,413		
OSHA Incident Rates	Monthly Average	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	1.12		
Lost Time Injury (LTI) Rate	0.00	0.00	0.45		
Recordable National Average		2.5			
LTI National Average	1.10				
Recordable WA State Average	5.20				
LTI WA State Average		2.90			

Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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#### F200 Design Build Contract

#### **Current Progress**

Through January 2022, the F200 Design-Build Contractor established and conducted Design Task Force meetings, completed 41 of 46 design packages and 14 of 17 final specification packages. A review of the baseline schedule for design delivery identified 5 late items: 3 design packages and 2 specification packages. Significant construction progress occurred on all segments in relation to: Guideway (sub-ballast, superstructure and substructure), SR99 Bridge, KDM Station and Garage construction (interior construction), Star Lake Station & Garage (foundations and walls), and FWTC (garage demo and mods) & EOL (End of Line Facility).

#### Design:

- During the month, 9 RFIs, 59 Shop drawings, and 36 FDC/NDCs were received.
- All design packages for Segment 1 and 3 are complete. 1 design package remain open for Segment 2 Structure C and Two Corridor Wide Systems packages remain open.
- Early Storage Facility design was submitted.
- Structure C soil liquefaction task force meetings were ongoing; designs progressed. Final GIR accepted.
- Siding Track: WD increased for design; DB designing to latest PRs. Deviation for track clearance going to CCB.
- Design and Construction is advancing on ballast slab mats through a Work Directive while change order is being finalized.
- The 90/100% design package for Structure C is under review.

#### Construction:

- The project has issued 47 NCRs since NTP, 15 are presently open.
- Guideway substructure and extensive superstructure construction continues; % completeness (all Segments): Drilled shafts = 88%, Columns = 76%, and Caps and Straddles = 71%, Girder erection = 51% and Decks = 24%. Extensive substructure WA 1.1 and 3.8, and superstructure (deck and diaphragms): 1.3, 2.1, and 3.8.
- Trackwork: Placed sub-ballast in WA1.2.
- Noise, MSE, and CIP wall construction in work areas 1.2, 2.2, 3.3 and 3.7.



WA3.8 G07 Pier Cap Reinforcement



WA3.8 Waterline Installation at Federal Way Transit Center

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#### **Schedule Summary**

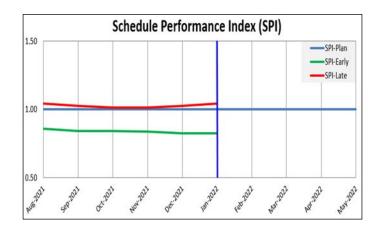
The progress schedule for January 2022 is currently under review. Construction NTP was issued in May 2020. Both F200 contract milestone #3 (LRV Early Storage) and #5 (Acceptance of All Work) are affected by the inclusion of CN-RFP 094 – Concrete Slab for Ballast Mat Subbase. We are working with the Design Builder to accelerate the schedule impacts from CNRFP 94 (a long lead item) so there is no delay to milestones 3 & 5 and subsequently no loss of float to the revenue service date. The inclusion of CNRFP 096 – Additional TPSS on the North Quadrant did not affect any of the F200 contract milestones.

tivity Name	Start	Finish					
			04	2022	2023 24 Q1 Q2 Q3 Q4	2024 Q1 Q2 Q3	
F200 Federal Way Link Extension - Schedule Update - D/B Contractor	01-Jun-19A	25-Sep-24					
Contract Milestones	07-Jun-19 A	25-Sep-24	-		+		
Limited Notice to Proceed	07-Jun-19A		7				
Contractual Notice to Proceed	28-Feb-20 A						
Notice to Proceed	04-May-20 A						
Issuance of Full Notice to Proceed (REC-01802, 07-Dec-2020)	07-Dec-20 A		1			I	
MS 1 - Civil Work in WSDOT ROW From S 208th Street to I-5 (Sta. L 2260+00) (VA-2) (01-Mar-22)		08-Mar-22*		•			
MS 2 - Civil Work in WSDOT ROW from Start of FWLE to S 208th Street (VA-1) (01-Nov-22)		07-Nov-22*		34	<u> </u>		
MS 3 - LRV Early Storage (2,000 feet of Track) (01-Jun-23)		19-Jun-23*			•		
MS 4 - Work in WSDOT ROW from I-5 (Sta. L 2260+00) to S 272nd Street (VA-3) (01-Nov-23)		28-Sep-23*		LL	•	I	
Substantial Completion		26-Jul-24				•	
60-Day Pre-Revenue Operations	27-Jul-24	24-Sep-24					
30-Day Sound Transit-Controlled Float	25-Sep-24	25-Sep-24					
MS 5 - Acceptance of All Work (05-Aug-24)		25-Sep-24				1	
Design	07-Jun-19A	30-Jun-23					
Design Milestones	07-Jun-19 A	30-Jun-23			<del></del>	I	
Corridor Wide	07-Jun-19 A	11-May-22	-	<del></del>			
Design Packages - Kent Des Moines Segment 1	07-Jun-19 A	15-Jul-21 A					
Design Packages - Star Lake Segment 2	07-Jun-19A	13-Jun-22	-	-			
Design Packages - Federal Way Transit Segment 3	07-Jun-19 A	01-Mar-22	-	<del></del> -			
Construction	01-Jun-19A	26-Jul-24				<del></del>	
General	01-Jun-19A	26-Jul-24	-	<del>                                     </del>	_	<del></del>	
Segment 1 Construction [STA 990+10 to 1112+99]	28-Jun-19 A	10-Jun-24	-		_	<del></del>	
Segment 2 Construction [STA 1112+99 to 1227+29]	28-Jun-19 A	26-Jul-24	-		+		
Segment 3 Construction [STA 1227+29 to 1401+87]	28-Jun-19 A	26-Jul-24	-	+	+	_	
Commissioning	10-May-21 A	27-Dec-23	-	<b>*</b>		†	
Provisional Sums	01-Dec-19 A	10-Feb-24			+	-	
Change Orders	01-Jul-19 A	28-Jul-24	-	+	+	-	

#### **Schedule Performance Index**

For the January period, the Early SPI is 0.82 and Late SPI is 1.04 (previously: 0.83 and 1.03 respectively). January cumulative actuals were in between the Cumulative Early and Late date planned value. Kiewit performance on monthly basis is in between early and late revised planned value.

Kiewit continues to remain within acceptable performance tolerances for cumulative early and late curves.



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#### **Next Period's Activities**

#### Design:

- Structure C soil liquefaction: DB to proceed with structure designs. S2.02b 90% Ridged Pier expected in mid-February.
- Continue effort on FDC/NDC, RFIs, product data submittals and shop drawings; Systems to increase.
- NDC-176 (Sidings Track) to be returned.
- CW.02a IFC OCS, CW.02 100% Signals and CW.02c 90% Remaining systems.

#### **Construction:**

- Progress work for WSDOT Handover Staging Plan Milestone 1.
- Guideway substructure and extensive superstructure construction continues (all segments).
- SR99 Bridge: begin superstructure construction (girders).
- KDM Garage: construction on interior room walls and L1 finishes. Electrical and plumbing rough in continued.
- KDM Station: hang plaza level steel. Civil work for footings and elevator and escalators.
- Midway landfill: continue effort on L1135MSE wall.
- Star Lake Garage: Install footings at garage, continue wall construction, and complete footings. Start plumbing tests.

#### **Closely Monitored Issues (F200)**

- Load flow analysis (LFA): Flaws, technical issues, and ambiguous contract terms plagued initial LFA studies resulting in approval delay. A technical resolution meeting the ST standard was reached. An additional TPSS will be added via CO to correspond to the pre-bid configuration and study. Property acquisition for 5th TPSS in progress.
- Structure C soil liquefaction was identified requiring an updated structure design. A technical resolution meeting the ST standard was reached. The liquefaction has been determined to be a differing site condition.
- Sidings Track: Operations identified new requirements for the siding track which were issued to the contractor via a CNRFP; NDC 176 has been submitted for review for conformance to the new requirements.
- Test & Commissioning: a delay in testing & commissioning plan approval was identified as project delivery risk. The updated plan is under review.
- Blocked drainage pipe in I-5; the DB likely damaged the median drainage pipe near Midway Landfill. Resolution under review by SPU/ WSDOT/ST. DB preparing for pipe inspection per the request from WSDOT.

### **Cost Summary**

Present Financial Status	Amount
F200 Contractor - Kiewit Infrastructure	e West Co
Original Contract Value	\$1,285,200,000
Change Order Value	\$145,775,382
Current Contract Value	\$1,430,975,382
Total Actual Cost (Incurred to Date)	\$599,181,342
Percent Complete	46.9%
Authorized Contingency + Add'l Ctg	\$248,297,519
Contingency Drawdown	\$145,775,382
Contingency Index [% complete/% ctg used]	0.80



WA1.3 Installing Storm Drain Str.

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#### **Project Summary**

#### Scope

Limits City of Tacoma

Alignment The Hilltop Tacoma Link Extension

(HTLE) project is a 2.4-mile extension of the existing Tacoma Link system from the Theater District in downtown Tacoma to the Hilltop neighborhood. The extension will travel at-grade along Stadium Way, North 1st Street, Division Avenue, and Martin Luther King Jr. Way (MLK).

Stations Old City Hall, S. 4th, Stadium District,

Tacoma General, 6th Avenue, Hilltop

District, and St. Joseph.

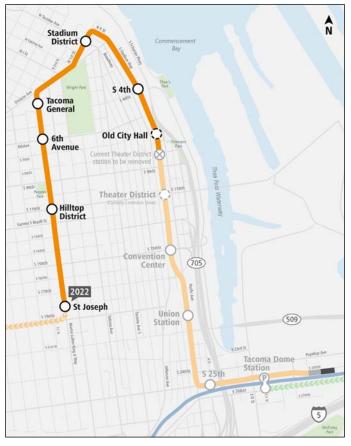
Systems Expansion of the Operations and

Maintenance Facility (OMF); The at-grade alignment will include additional signals, Overhead Catenary Systems (OCS), traction power, and communications infrastructure.

Phase Construction

**Budget** \$252.7 Million (Re-Baselined June 2020)

**Schedule** Revenue Service: Q1 2023



Map of Hilltop Tacoma Link Extension.

#### **Key Project Activities**

Final Design: Design consultant continued design services during construction.

Construction: January activities were performed in accordance with contractor COVID-19 safety training and protocols.

- **Heading 1**: Continued electrical equipment installations at Old City Hall and S. 4th **St**. stations.
- Heading 2: Began OCS wire run registrations in Stadium District down to TPSS No. 1 on Stadium Way.
- Heading 3: Poured Tacoma General station curbs and ramps. Primed and painted 6th Ave. station canopy steel.
- OMF: Exterior: Poured driveway on E. J St. Interior: Completed commissioning of OMF access controls.

#### **Closely Monitored Issues**

- Staff continue to monitor LRV delivery dates and conditional acceptance timelines to support pre-revenue service.
- Staff performed a Quantitative Risk Assessment to confirm estimate at completion and forecast revenue service.

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### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

This period approximately \$2.1M was incurred. The majority of the expenditures were incurred in the Construction phase for T100 construction contract.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$21.7	\$19.1	\$19.0	\$21.7	\$0.0
Preliminary Engineering	\$5.6	\$5.6	\$5.6	\$5.6	\$0.0
Final Design	\$14.1	\$13.9	\$13.7	\$14.1	\$0.0
Construction Services	\$12.4	\$11.5	\$11.3	\$12.4	\$0.0
Third Party Agreements	\$1.5	\$1.3	\$1.0	\$1.5	\$0.0
Construction	\$162.0	\$141.7	\$136.5	\$162.0	\$0.0
Vehicles	\$33.4	\$31.9	\$19.1	\$33.4	\$0.0
ROW	\$2.2	\$1.9	\$1.9	\$2.2	\$0.0
Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$252.7	\$226.9	\$208.1	\$252.7	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost	Adopted Budget vs.
10 Guideway & Track	\$31.0	\$27.1	\$26.1	\$31.0	\$0.0
20 Stations	\$3.5	\$3.0	\$2.9	\$3.5	\$0.0
30 Support Facilities	\$41.2	\$36.0	\$34.7	\$41.2	\$0.0
40 Sitework & Special Conditions	\$51.7	\$45.3	\$43.7	\$51.8	\$0.1
50 Systems	\$34.6	\$30.2	\$29.1	\$34.6	\$0.0
Construction Subtotal (10 - 50)	\$161.9	\$141.7	\$136.5	\$162.0	-\$0.1
60 ROW, Land	\$2.0	\$1.9	\$1.9	\$2.2	\$0.2
60 Vehicles	\$33.1	\$31.9	\$19.1	\$33.4	\$0.3
80 Professional Services	\$53.8	\$51.4	\$50.5	\$55.2	\$1.4
90 Unallocated Contingency	\$2.0	\$0.0	\$0.0	\$0.0	-\$2.0
Total (10 - 90)	\$252.7	\$226.9	\$208.1	\$252.7	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Contingency Management**

Hilltop Tacoma Link Extension was baselined in September 2017 with a total contingency of \$33.8M. Since baselining, there were drawdowns on AC and UAC to address the Procurement of the Tacoma LRV and T100 Construction contracts; Design Services During Construction contract; and various construction change orders. The baseline contingency levels were insufficient and required an additional \$35.4M that was approved by the ST Board in June 2020.

**Design Allowance (DA)** was established to account for unquantified scope at the time of the cost estimate. DA is at \$0, as a result of completion of Final Design.

**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period the AC was reduced by approximately \$0.1M due to executed change orders on the T100 contract. The current balance is \$19.4M.

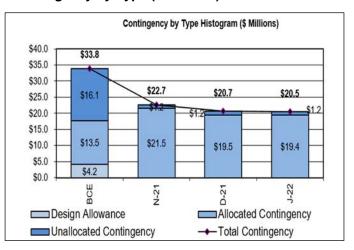
**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC balance of \$1.2M remains unchanged this period.

#### **Contingency Status (Monthly)**

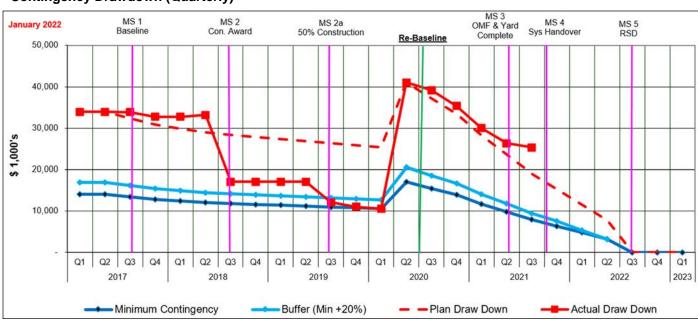
Туре	Base	line	Re-Baseline			
	Amount	% of Total	Amount	% of Work		
Design Allowance	\$4.2	2.2%	\$0.0	0.0%		
Allocated Contingency	\$13.5	6.8%	\$19.4	43.4%		
Unallocated Contingency	\$16.1	8.2%	\$1.2	2.6%		
Total	\$33.8	17.2%	\$20.5	45.9%		

Table figures are shown in millions.

#### **Contingency by Type (\$ Millions)**



#### **Contingency Drawdown (Quarterly)**



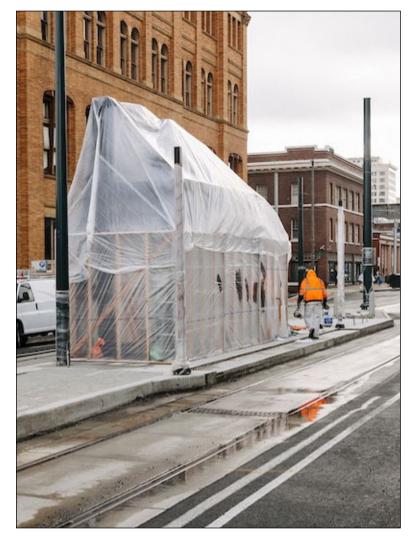
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#### **Risk Management**

The following are the top project wide risks:

- The T100 contractor will submit a cumulative impact claim that exceeds available budget.
- Inadequate budget contingency (both allocated and unallocated) cause the cost estimate at completion to exceed approved budget.
- Lack of detail in T100 construction schedule impedes adequate resource planning for rail activation, safety certification, SIT, and vehicle testing and commissioning.
- Lack of experienced testing/commissioning personnel results in delays to substantial completion, particularly on the alignment.
- Continued delays to vehicle delivery schedule impact timely testing and commissioning of the vehicle and increase risk of fewer vehicles available for pre-revenue and revenue service.



Hilltop Tacoma Link Extension construction progress January 20, 2022. HTTL, T link, T line,

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#### **Project Schedule**

The master schedule was updated through the end of January 2022. Overall physical percent complete is 89.0%.

**LRV**: The delivery of the first car is forecasted in late Q1 2022 and the last two cars in Q2 2022. The car builder's December 2021 schedule estimates all of the five cars will be delivered by end of Q2 2022 to support pre-revenue service.

**T100:** Project staff continue to analyze the schedule to establish a realistic revenue service date and work with contractor to confirm date for critical cutover at 9<sup>th</sup> and Commerce.

**Rail Activation**: The rail activation schedule will be finalized in late February and then updated on a monthly basis. T100 System Integration Testing and BEC LRV schedules. The rail activation schedule will include durations for safety certification activities in advance of revenue service date.

**Quantitative Risk Analysis (QRA)** workshop was held in late January 2022. Follow-on workshops will be held to review data and confirm schedule module assumptions to ensure a probabilistic revenue service date.

ity Name	Start	Finish	2022				
			Q1	Q2	Q3	Q4	
HTLE - Jan 2022 Update	02-Feb-15A	20-Dec-22					
Project Milestones	28-Sep-17 A	20-Dec-22					
MS-01 - Project Baseline		28-Sep-17 A	1				
MS-02 - Construction Contract Award		27-Aug-18 A					
MS-03 - Submit Design & Delivery Schedule for the Automatice Vehicle Locator		21-Nov-18 A					
MS-01 - OMF & Yard Complete (Contractual Date Nov 21 2020)		24-Feb-22*	•				
BEC - LRV Delivered Car 1 to ST (Contractual Date Jun 4 2020)		09-Mar-22	•				
BEC - LRV Delivered Car 2 to ST (Contractual Date Aug 4 2020)		07-Apr-22		•			
BEC - LRV Delivered Car 3 to ST (Contractual Date Sep 4 2020)		26-Apr-22		•			
BEC - LRV Delivered Car 4 to ST (Contractual Date Oct 4 2020)		15-Jun-22	]	•	1		
BEC - LRV Delivered Car 5 to ST (Contractual Date Nov 4 2020)		28-Jun-22		•			
T100 - Systems Handover to ST Test 84		12-Sep-22			•		
MS-02 - Substantial Completion of all work (Contractual Date May 29 2021)		12-Sep-22			•		
MS-05 Revenue Service Date		20-Dec-22					
Preliminary Engineering	02-Feb-15A	04-Nov-16 A					
Final Design	04-Jan-16 A	31-May-18 A	ļ				
ROW & Third Parties	01-Oct-15 A	11-Jan-19 A					
Owner Furnished Materials / Equipment Procurement	02-Oct-17 A	18-Aug-22			—		
Light Rail Vehicles (Qty 5)	11-Od-16 A	18-Aug-22			—		
Construction	23-Jan-18 A	13-Sep-22					
Construction Contract Procurement	23-Jan-18 A	27-Jul-18 A	1				
T100 Hilltop Tacoma Link Extension Schedule Jan 22 Update	31-May-18 A	13-Sep-22	_	†	<del></del>		
SIT / Pre-Revenue Testing	01-Dec-21 A	20-Dec-22		<del>                                     </del>			
OLD Alignment SIT	01-Dec-21 A	02-Feb-22	,				
Network/SCADA	28-Jun-22	30-Jun-22		<b>*</b>			
New Alignment SIT	29-Apr-22	21-Jul-22	1	· •	_		
Test 84	01-Jul-22	16-Sep-22		1			
9th Street Cutover	15-Aug-22	20-Sep-22			—		
9th Street Cutover Test 84	21-Sep-22	22-Sep-22			▼		
Rail Grinding	29-Aug-22	07-Sep-22			-		
Pre-Revenue Service	23-Sep-22	20-Dec-22	l		Ψ.		
Project Float - Owner Controlled	20-Dec-22	20-Dec-22	1				
Project Float - Baseline Project Float (None Remaining)	20-Dec-22	20-Dec-22	1				
Revenue Service	20-Dec-22	20-Dec-22					
Revenue Service Begins (BL Date May 23, 2022)		20-Dec-22					

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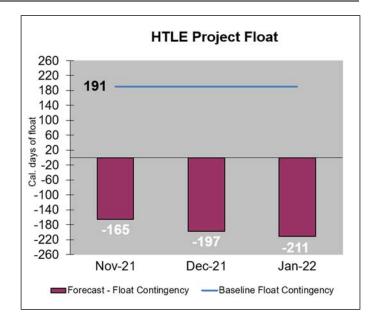


#### **Project Float**

Hilltop Tacoma Link Extension baseline schedule included 232 days of project float to support revenue service on May 23, 2022. The current HTLE master schedule indicates all the remaining project float has been consumed.

Staff continue to assess time impacts related to change orders on the T100 construction contract and forecast delays to the baseline revenue service date. Mitigations to reduce impact of further schedule delays have been implemented with a revenue service date to be determined.

To better monitor schedule contingency, the Project Float Graphic shown in this report represents data from the HTLE master schedule float analysis.



#### **Critical Path Analysis**

The analysis for January 2022 shows the main critical path for the T100 contract is the setting of station equipment, testing and commissioning of all the stations, Job Wide ITS testing, Test 84 ITS Systems Verification and Validation, 9th and Commerce intersection work before pre-revenue service begins.

LRV deliveries and conditional acceptance is also on the near critical path which could influence the completion of pre-revenue service tests.

vity Name	Start	Finish	2022				
			Q1	Q2	Q3	Q4	
HTLE - Jan 2022 Update	31-Jan-22	20-Dec-22					
Project Milestones	20-Dec-22	20-Dec-22					
MS-05 Revenue Service Date		20-Dec-22	1		1		
Construction	31-Jan-22	12-Aug-22			<b>-</b>		
T100 Hilltop Tacoma Link Extension Schedule Jan 22 Update	31-Jan-22	12-Aug-22	_		<b>—</b>		
Tacoma Links Baseline Schedule	31-Jan-22	12-Aug-22				,	
Milestones	12-Aug-22	12-Aug-22			▼		
Heading 1: 7th & Commerce to Stadium Way & Division	12-Aug-22	12-Aug-22			▼		
Heading 2: Stadium Way & Division to Division St and MLK	04-May-22	23-May-22					
Heading 3: Division St and MLK to MLK & 19th	01-Mar-22	03-May-22					
Job Wide ITS	24-May-22	10-Jun-22		_			
Testing & Commisioning	13-Jun-22	11-Aug-22		-			
Other Time Impacts	31-Jan-22	28-Feb-22			-		
SIT / Pre-Revenue Testing	15-Aug-22	20-Dec-22			-		
9th Street Cutover	15-Aug-22	20-Sep-22					
9th Street Cutover Test 84	21-Sep-22	22-Sep-22	1		7	,	
Pre-Revenue Service	23-Sep-22	20-Dec-22			<b>÷</b>		
Project Float - Owner Controlled	20-Dec-22	20-Dec-22					
Project Float - Baseline Project Float (None Remaining)	20-Dec-22	20-Dec-22					
Revenue Service	20-Dec-22	20-Dec-22					
Revenue Service Begins (BL Date May 23 ,2022)		20-Dec-22	1	ĺ	1		

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#### **Community Engagement**

- Produced and distributed notifications about: OCS wire installation on Stadium Way and Commerce St., fiber optic wire
  installation along the HTLE route and the existing Tacoma Link route, concrete work at TPSS 2, 3, and 4, construction at St
  Joseph Station and road restoration on MLK Jr. Way, and curb and gutter on the west side of MLK Jr. Way from S. 10th St.
  to S. 7th St. Produced and distributed the weekly construction alert about traffic impacts. Continued to update businesses
  and residents and coordinate access in all construction areas.
- Held two site walks with MultiCare. The National Guard is deployed to set up a COVID testing site outside of Tacoma General's Emergency Department. Coordinated with Stadium High School about construction near the school.
- Gave an update on the HTLE project to the Hilltop Stakeholders Outreach Committee, Hilltop Business Association, and Downtown on the Go Transit Committee. Took construction photos and sent them to be included in the Hilltop Journal. Continued coordinating on the Loyal to the Local program and managing the HTLE Facebook group page. Provided comments on the HTLE safety outreach plan.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

ST staff variance reflects shared design and engineering resources across multiple ST projects including South Corridor and Vehicles. Despite the variance in FTE levels project is sufficiently staffed for this period. ST will monitor project needs and adjust FTE levels as needed. Consultant FTEs are slightly under plan.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance	
ST Staff	20.7	15.5	5.2	
Consultants	23.4	12.9	10.5	
TOTAL	44.1	28.4	15.7	
* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.				

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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## **Construction Safety**

Data/ Measure	January 2022	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	12		
Days Away From Work Cases	0	0	0		
Total Days Away From Work	0	0	0		
First Aid Cases	0	0	23		
Reported Near Mishaps	1	1	69		
Average Number of Employees on Worksite	91	-	-		
Total # of Hours (GC & Subs)	3,369	3,369	344,121		
OSHA Incident Rates	Month	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	6.97		
Lost Time Injury (LTI) Rate	0.00	0.00	0.00		
Recordable National Average	2.50				
LTI National Average	1.10				
Recordable WA State Average	5.20				
LTI WA State Average	2.90				

Note: Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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#### Contract T100 — Hilltop Tacoma Link Extension

### **Current Progress**

The construction contractor, Walsh Construction Company II, LLC, continues work at the interior and exterior of the OMF and in all three headings along the 2.4 mile extension.

- Heading 1: Installing electrical equipment at Old City Hall and S. 4<sup>th</sup> stations and outbound OCS contact wire from Yakima to TPSS #1.
- Heading 2: Continued traffic signal installation at Division and MLK Ave. Continued flatwork curb and gutter on outbound side Division between Yakima and K St intersections.
- Heading 3: Poured the Tacoma General station platform. Installed ground hydrant at Tacoma General. Continued fiber
  optic cable pulls. Installed positive feeders and negative returns at TPSS#3. Primed and painted the St. Joseph's and
  Hilltop station canopy steel.
- OMF Yard: Performed grind and overlay at E. J Street and began landscaping on E. 25<sup>th</sup> Street.
- OMF Bldg.: Installed permanent paint on shop floor., Commissioned OMF access controls completed SIT test 407.

#### Schedule Summary

The T100 January 2022 monthly schedule submittal is still under review. The current update does not support a Q1 2022 prerevenue startup date but is used for planning purposes.

ity Name	Start	Finish	2022			
			Q1	Q2	Q3	Q4
T100 Hilltop Tacoma Link Extension Schedule Jan 22 Update	31-May-18 A	13-Sep-22				
Tacoma Links Baseline Schedule	31-May-18 A	13-Sep-22				
Milestones	29-Jun-18 A	13-Sep-22				ĺ
Job Milestones	29-Jun-18 A	13-Sep-22	_			1
Contractual Milestones	21-Nov-18 A	12-Sep-22				
Contr. MILESTONE 3: Submit and Design of and Delivery Schedule for AVL (NTP+90 = 11/25/18)		21-Nov-18 A				
Contr. MILESTONE 1: Substantial Completion of OMF & Yard (NTP + 817 + 88 = 2/17/21)		24-Feb-22*	•			
Contr. MILESTONE 2: Substantial Completion of All Work (NTP + 1005 + 178 = 11/22/21)		12-Sep-22*			•	
PreConstruction	31-May-18 A	21-Aug-22				
Heading 1: 7th & Commerce to Stadium Way & Division	15-Oct-18 A	12-Sep-22	-			1
Heading 2: Stadium Way & Division to Division St and MLK	23-Oct-18 A	14-Jul-22			-	
Heading 3: Division St and MLK to MLK & 19th	15-Oct-18 A	05-Aug-22	-	****	<b>—</b>	
OCS Wire Runs	19-Jul-21 A	05-Sep-22	_		—	
Train Signal System	19-Dec-20 A	04-Apr-22	_	•		
Job Wide ITS	04-Feb-22	10-Jun-22	_	_		
OMF Facility	29-Aug-18 A	24-Feb-22		••••••		
Testing & Commissioning	11-Mar-19 A	11-Sep-22				
OMF Testing	21-Oct-19 A	11-Aug-22	-			
Yard Testing	02-Oct-20 A	02-Feb-22	•			
TPSS Testing	10-Feb-20 A	27-Apr-22	_	<b>-</b> ,		
Stations Testing	31-Jan-22	25-May-22				
Mainline Testing	11-Mar-19 A	11-Sep-22		_		1
Old Alignment	13-Jun-22	20-Jun-22		~		
Change Orders	07-Jan-19 A	07-Sep-22			· · ·	1
Provisional Sum Time Impacts	01-Feb-19 A	04-Feb-22	Y			<u></u>
Other Time Impacts	04-Mar-19 A	15-Aug-22				
RFCs	09-Jan-19 A	21-Jun-22				
Provisional Sums	03-Dec-18 A	20-Jun-22		$\overline{}$		
Weather Days	04-Feb-19 A	27-Jan-20 A				Í

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#### **Schedule Performance Index**

This period the early SPI and late SPI were 1.0, the same as last month. The SPI shown is relative to the project baseline and does not incorporate executed change orders and time extensions. Upon receipt from the Contractor of planned values to completion, ST will incorporate that data into the SPI and report accordingly. Until such time, SPI will remain at 1.0.



#### **Next Period's Activities**

- Heading 1: Begin installing electrical equipment at Old City Hall and S. 4<sup>th</sup> Street stations. Begin registering OCS wire runs 7 and 8 from Yakima to TPSS #1.
- Heading 2: continue traffic signal installation at the Division Ave. and MLK intersection. , Continue flatwork (curb and gutter) on outbound side of Division between Yakima and K St intersections. Install electrical equipment at the Stadium station. Complete TPSS #2 underground service connection.
- Heading 3: continue installing positive feeders and negative returns and underground service connection at TPSS #4. Pour Tacoma General station infills and bollards forstation canopy steel.
- OMF Building: Install permanent paint on shop floor and perform wash facility training.
- OMF Yard: Continue landscaping on E. 25<sup>th</sup> Street.

#### **Closely Monitored Issues**

- ST continues to monitor contractor compliance to protocols identified in their COVID-19 safety plan.
- ST continues to refine cost and schedule forecasts to better determine project estimate at completion and revised revenue service date due to delays.
- Notifications to the community of upcoming construction activities are ongoing. Business mitigation efforts are underway to support businesses impacted by construction activities. Community Outreach staff are managing this effort with the support of the contractor, City of Tacoma and ST field staff. The feedback from these businesses assisted the project team with developing the robust Commerce Street plan.
- The cutover at 9th and Commerce requires a series of planning workshops which began in January 2020.
   Participants include ST (including Operations), City of Tacoma and the contractor.

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## **Cost Summary**

Present Financial Status	Amount		
T100 Contractor— Walsh Construction Company			
Original Contract Value	\$108,295,000		
Change Order Value	\$18,390,736		
Current Contract Value	\$126,685,736		
Total Actual Cost (Incurred to Date)	\$122,529,534		
Percent Complete	97.0%		
Authorized Contingency	\$37,114,750		
Contingency Drawdown	\$18,390,736		
Contingency Index (CI = % Complete/% Ctg Spent)	2.0		



Landing TPSS #4 power wires- H3

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# Link Light Rail Hilltop Tacoma Link Extension



#### Contract RTA/RP 0014-16 — Tacoma Link Light Rail Vehicle (LRV) Procurement

# **Current Progress**

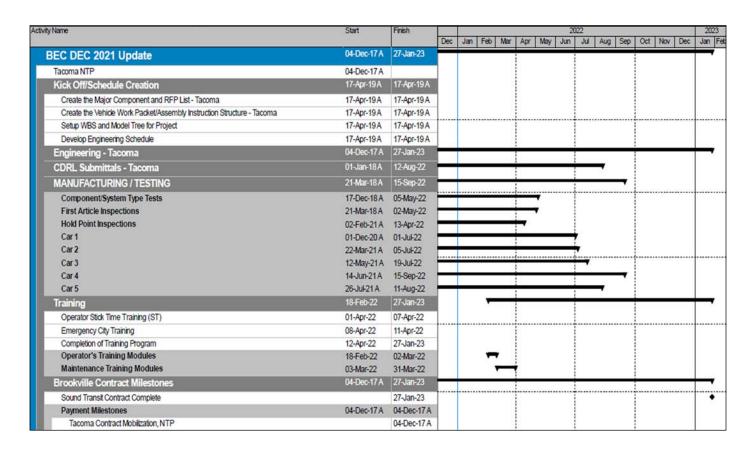
- LRV #1 delivery date slipped from Feb 2022 to Mar 2022.
- LRV #2 delivery date slipped from Apr 2022 to May 2022.
- LRV #3 delivery date slipped from May 2022 to Jun 2022.
- LRV #4 delivery date slipped from Jun 2022 to Aug 2022.
- LRV #5 delivery date slipped from Jun 2022 to Jul 2022.

# **Schedule Summary**

Brookville's January 2021 schedule update submittal is represented in this reporting period.

LRV #1 arriving at the OMF in Tacoma in early Mar 2022 with last car arriving in Aug 2022. The schedule graphic below indicates all vehicles will be delivered in time for revenue service in Q3 2022.

Delays to receipt of materials/subcomponents and personnel resource availability have impacted final assembly and delivery dates of vehicles to Tacoma. These materials/subcomponents include: Ceiling Panels, cab partition wall, master controller, coupler, axles, ceiling cove enclosures and bridge plates for Vehicle 2-5.



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# Link Light Rail I-90 Two-Way Transit & HOV Operations (Stage 3)



# **Project Summary**

Scope The I-90 Two-Way Transit and HOV

Operations (Stage 3) project provides approximately four miles of HOV lanes in each direction of the outer roadway between 80th Avenue South on Mercer Island and Rainier Avenue in Seattle. The project includes upgrades and retrofits to the fire, life, safety, and other systems in the Mount Baker and Mercer Island/First Hill tunnels. The project also includes remaining dowel bar retrofit work on the west side of Lake Washington, and the installation of screening on the shared—use pathway on the I-90 floating bridge.

Phase Post-Construction

**Budget** \$207.6 Million

Schedule Construction Complete: December 2020

for Primary work; Third Party oversight to

continue through 2025.



Since June 2017, the project has provided 24/7 HOV access on I-90 between Seattle, Mercer Island and Bellevue.

# **Major Contracts**

Group	Scope	Agreement/Contract Amount		
WSDOT	PE	\$ 1,549,003		
WSDOT	Final Design	\$ 18,022,756		
WSDOT	CM Services	\$ 43,192,664		
IMCO	Construction	\$132,409,000		
City of Mercer Island	Transportation Mitigation	\$10,050,000		

# **Key Project Activities/Milestones**

- **Physical Completion, IMCO Contract** Granted by WSDOT 20-Sep-21.
- Other Civil Construction I-90 Catch Basin Lid & Frame Replacement: Substantial Completion granted 21-Aug-19; Mount Baker Tunnel Hydrant Cover Safety Restriping Substantial Completion granted 5-Jun-20.
  - Final payment for R8A Construction & CM Services task order received by WSDOT; closeout of Construction Task Orders completed; Final Design task order closeout pending concurrence from WSDOT.
- Third Party Oversight (City of Mercer Island) Ongoing obligation through December 2025.

# **Closely Monitored Issues**

All WSDOT construction work is substantially complete; monitoring of the following item is ongoing:

- City of Mercer Island's appeal of previous litigation dismissal, Mercer Island Transit Integration Agreement
  - The city's appeal has been dismissed; ST now working with the city towards mutual acceptance of ruling requirements.

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# Link Light Rail I-90 Two-Way Transit & HOV Operations (Stage 3)



### **Project Cost Summary**

The following tables summarize the cost information for the I-90 Two-Way Transit and HOV Operations (Stage 3) project. Expenditures for the month of January were \$7.7K, for ST staff charges.

A Project budget reserve was realized, and \$18.0M de-committed from the Project; tables below are in millions.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$3.6	\$2.8	\$2.5	\$2.5	\$2.8	\$0.0
Preliminary Engineering	\$1.5	\$1.5	\$1.5	\$1.5	\$1.5	\$0.0
Final Design	\$22.1	\$19.4	\$18.7	\$18.4	\$19.4	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$198.3	\$183.9	\$187.0	\$177.5	\$183.9	\$0.0
Total	\$225.6	\$207.6	\$209.7	\$200.0	\$207.6	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Final Cost		Final Cost Allocati	
40 Sitework & Special Conditions	\$180.6	\$183.9	\$187.0	\$177.5	\$183.9	\$0.0		
80 Professional Services	\$26.3	\$23.6	\$22.8	\$22.5	\$23.6	\$0.0		
90 Unallocated Contingency	\$18.7	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0		
Total	\$225.6	\$207.6	\$209.7	\$200.0	\$207.6	\$0.0		

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

# **Cost Contingency Management**

In the table below, the Committed Allocated Contingency included WSDOT-controlled construction contingency plus total ST controlled allocated contingencies. Most of the remaining contingency was de-committed from the Project as the majority of work has been completed; current Total Contingency is just under \$730K. Due to this reduction & overall reduction of Project budget, the percent of overall Current Contingency now comprises 9.5% of remaining total project budget.

Contingency Status	Baseline Amount	Baseline % of Total	Current Amount	CTG as % of Remaining Work Budgeted
Design Allowance	\$0.0	0.0%	\$0.0	0.0%
Committed Allocated Contingency	\$17.0	7.5%	\$0.6	7.1%
Unallocated Contingency	\$18.7	8.3%	\$0.2	2.4%
Total	\$35.7	15.8%	\$0.7	9.5%

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# Link Light Rail Light Rail Vehicle Fleet Expansion



# **Project Summary**

Scope Design, manufacturing, assembly,

inspection, testing and delivery of 152 low

floor light rail vehicles for service requirements of Northgate, East Link and Lynnwood Link, Federal Way and Downtown Redmond Extensions.

Phase Manufacturing

**Budget** \$740.7 Million (Baseline September 2015,

Amended April 2017)

**Schedule** Project Completion: Q3 2024



Siemens Series 2 Link light rail vehicle

#### **Key Project Activities**

- Car 253 was delivered to Operation and Maintenance Facility (OMF) East on 1/21/2022.
- 29 cars in final assembly & car shells in fabrication for up to number 109 at Siemens' Sacramento facilities.

### **Closely Monitored Issues**

- Five fleet defects have been declared, commissioning team effort responding to defects is contributing to delay in Conditional Acceptance (CA) of additional LRVs. ST is working closely with Siemens to resolve and provide vehicle maintenance support.
- OMF Central yard LRV storage capacity continues to be an issue that may affect recovery schedule, preventive maintenance or spares available to support peak service. Siemens' LRVs delivery and onsite Series 1 LRV transportation between OMF East and OMF Central is continuously managed & monitored.
- Manufacturer continue reporting supply chain interruptions impacting implementation of Field Modification Instructions and submitted a general notice for COVID-19 pandemic impacts. Weekly production meeting with Siemens held to monitor progress.
- Coordination and scheduling of Automatic Train Protection (ATP) retrofit on Series 1 LRVs is more challenging than anticipated. Retrofit works planned to start in Q1 of 2022.



Car 252 in final inspections before shipment, Sacramento, CA



Car 245 slide plate replacement at Seattle, WA

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### **Project Cost Summary**

The LRV Fleet Expansion Project has an approved baseline budget of \$740.7M. The project cost is summarized into two cost tables. The first table is in accordance with Sound Transit's Work Breakdown Structure (WBS) displaying the cost summary by phase. The second table summarizes project cost by SCC, in accordance to the FTA Standard Cost Categories (SCC) format. Both tables show figures in millions.

The project total expenditure incurred to date is approximately \$385.7M to which a majority of the cost is attributed to the vehicles phase of \$368.9M. The current period expenditure is \$2.25M. The remaining expenditures were attributed to engineering and inspection and administrative efforts.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Final Cost	
Administration	\$9.6	\$9.6	\$6.1	\$5.9	\$9.6	\$0.0
Construction Services	\$18.0	\$18.0	\$15.1	\$10.9	\$18.0	\$0.0
Vehicles	\$713.1	\$713.1	\$661.1	\$368.9	\$713.1	\$0.0
Total	\$740.7	\$740.7	\$682.4	\$385.7	\$740.7	\$0.0

#### **Cost Summary by SCC**

SCC Elements	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Construction Subtotal (SCC 10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
60 ROW, Land, Existing Improvements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
70 Vehicles	\$705.3	\$705.2	\$669.4	\$372.9	\$705.1	\$0.0
80 Professional Services	\$23.2	\$23.8	\$13.0	\$12.8	\$23.8	\$0.0
90 Contingency	\$12.2	\$11.8	\$0.0	\$0.0	\$11.8	\$0.0
Capital Total (SCC 10 - 90)	\$740.7	\$740.7	\$682.4	\$385.7	\$740.7	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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# Link Light Rail Light Rail Vehicle Fleet Expansion



# **Risk Management**

The following are the top project wide risks:

- Competing demands for extension's project simulated services, SIT and upcoming revenue service preparation reduces the availability of Operation labor and vehicle maintenance personnel in supporting Series 2 LRV commissioning.
- Series 1 LRV ATP retrofit schedule has substantial impact on shipping LRVs #42-100.
- Receiving LRVs at both OMF Central and OMF East create both cost inefficiency (now require two teams in two location
  to support commissioning activity) as well as increased risk of double handling of LRV as not all testing and commission
  activities can be performed at OMF East currently.
- COVID-19 remains a fluid situation, monitoring reported disruption to manufacturer's supply chain and assembly plant.

# **Contingency Management**

The project's budget was baselined in September 2015 and was amended in April 2016 to exercise the option LRV contained a total of \$78.0M of Total Contingency. The project's Total Contingency is currently at \$58.2M or about 15.5% of remaining work in the project.

**Design Allowance (DA)** was established to account for unquantified scope at the time of the cost estimate. This project contains \$0 design allowance.

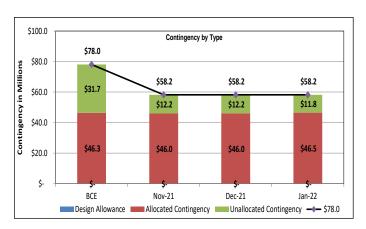
**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. The project baseline's allocated contingency was \$46.3M. Due to the annual budget process, the AC was adjusted by about \$400K to \$46.5M from \$46M in this period.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The annual budget exercise shifted about \$400K from UAC to AC leave the balance for UAC at \$11.8M in this period.

#### **Contingency Status (Monthly)**

Contingency	Base	eline	Current			
Status	Amount	% of Total Budget	Remaining Amount	% of Work Remaining		
Design Allowance	\$ -	0.0%	\$ -	0.0%		
Allocated Contingency	\$ 46.3	6.3%	\$ 46.5	13.1%		
Unallocated Contingency	\$ 31.7	\$ 31.7 4.3%		3.3%		
Total	\$78.0	10.7%	\$ 58.2	15.5%		

#### **Contingency by Type**



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#### **Project Schedule**

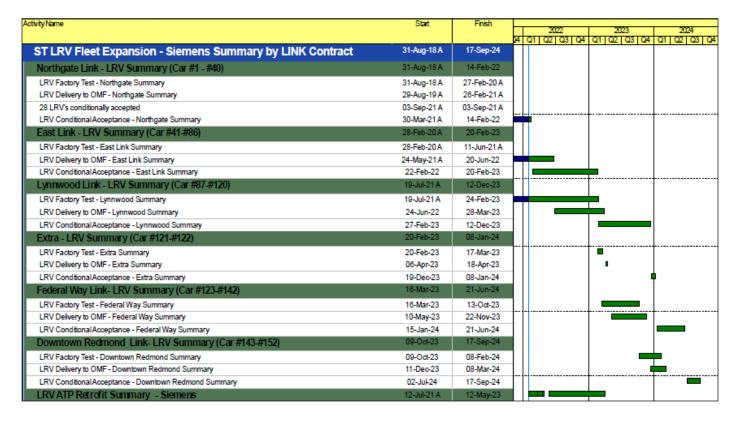
Percent complete of the Contract Payment Milestones is calculated at 55.25%

The schedule below is a summary schedule identifying the factory testing, delivery and conditional acceptance testing of Light Rail Vehicles for each project as reported from Siemen's monthly schedule update. As of January 2022, all vehicles are expected to be available for Pre-Revenue Service testing at each of the projects identified below. the LRV manufacturer (Siemens) has delivered 60 cars to Seattle of which 37 cars were Conditionally Accepted. In addition, there are 29 cars fully assembled at Siemens' storage yard in Sacramento and many car shells in various stages of production and assembly.

Sound Transit and Siemens continue to anticipate that all the 152 LRVs will have delivered, commissioned and tested by Sound Transit's baseline completion date of September 2024 and on time for the start of pre-revenue service for each line extension.

As was the case with Northgate Link, should the forecast indicate delay on this interface milestone for future expansion projects measures for managing simulated service during Pre-Revenue may need to be identified and implemented.

Lastly, a summary bar for the ATP retrofit of the Kinkisharyo cars has been added for monitoring. ATP retrofit installation and testing is not expected to complete until Q2 2023.



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LRV Delivery and Testing Progress as of January 31, 2021								
LRV status	/ status Received / Delivered Testing in progress Conditionally Accepted Entered Rev							
Planned	101	21	80	80				
Actual (Seattle)	48	11	37	37				
Actual (Bellevue)	11	11	0	0				

# **Critical Path Analysis**

The critical path is completing the on-site Vehicle Performance Qualification Test and Acceptance Testing and Burn-In of all LRVs that have been delivered to Sound Transit site. Delivery and Conditional Acceptance Testing of all 28 light rail vehicles required for Northgate Link has been completed to support Revenue Service. The planned deliveries, commissioning and testing of light rail vehicles are anticipated to be complete by September of 2024, The planned deliveries, commissioning and testing of light rail vehicles are anticipated to be completed by September of 2024. However, current forecasts notes that Conditional Acceptance may impact Pre-Revenue Service for future expansion projects. As was the case with Northgate Link, should the forecast indicate delay on this interface milestone for future expansion projects, measures for managing simulated service during Pre-Revenue may need to be identified and implemented.

Activity Name	Start	Finish					
			04	C	2022 1 Q2 Q3 Q4	2023 Q1 Q2 Q3 Q4	2024 Q1 Q2 Q3 Q4
ST LRV Fleet Expansion - Siemens Summary by LINK Contract	30-Mar-21 A	17-Sep-24	Ĺ	Ĭ	.   42   45   41	41 42 40 41	4. 42 40 4
Northgate Link - LRV Summary (Car #1 - #40)	30-Mar-21 A	14-Feb-22					
LRV Conditional Acceptance - Northgate Summary	30-Mar-21 A	14-Feb-22	Н		l		
East Link - LRV Summary (Car #41-#86)	22-Feb-22	20-Feb-23					
LRV Conditional Acceptance - East Link Summary	22-Feb-22	20-Feb-23	7			<b>—</b>	
Lynnwood Link - LRV Summary (Car #87-#120)	27-Feb-23	12-Dec-23					
LRV Conditional Acceptance - Lynnwood Summary	27-Feb-23	12-Dec-23	7				
Extra - LRV Summary (Car #121-#122)	19-Dec-23	08-Jan-24					
LRV Conditional Acceptance - Extra Summary	19-Dec-23	08-Jan-24	7				•
Federal Way Link- LRV Summary (Car #123-#142)	15-Jan-24	21-Jun-24					
LRV Conditional Acceptance - Federal Way Summary	15-Jan-24	21-Jun-24	]	17			
Downtown Redmond Link- LRV Summary (Car #143-#152)	02-Jul-24	17-Sep-24					
LRV Conditional Acceptance - Downtown Redmond Summary	02-Jul-24	17-Sep-24	]				_
LRV ATP Retrofit Summary - Siemens							

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# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

The planned FTE monthly average is the monthly annualized average; whereas, the YTD monthly average only reflects the actuals for January 2022. The variance are minor and likely attributed to ST staff cross charge and the aggregation of administrative time offs among ST staff and consultants.

Resource Type	Planned FTE Monthly Average*	YTD Actual FTE Monthly Average	Variance			
ST Staff	9.2	5.6	3.6			
Consultants	6.9	5.7	1.2			
TOTAL	16.1	11.3	4.8			
An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.						

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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# **Project Summary**

**Scope** The Link Operations and Maintenance

Facility: East (OMF East) project, located in the City of Bellevue, includes a 145,000 SF OMF building plus a 35,000 SF MOW Building that will maintain, store and deploy and expanded light rail fleet, including seven LRV service bays, a LRV wash facility and storage for up to 96

LRVs.

Phase Operation / Warranty Period

**Budget** \$449.2 Million (Baselined July 2016)

**Schedule** Substantial Completion Achieved:

December 2020



Map of OMF East Site

# **Key Project Activities**

- Post Acceptance monitoring of facilities.
- Closeout of non-conformance and repair work.

# **Closely Monitored Issues**

 Performance of the 2-years Measurement and Verification activities.

# **Risk Management**

Substantial Completion was achieved in December 2020. OMFE has been turned over to Operations. Some residual risk remains within the project are actively monitored and others have been transferred over to Operations for their monitoring.

The residual risk on the project are as follows:

- Scope: Scope Interfaces with E750 Systems when ELE has to integrate OMF East with OMF Central through East Link.
- Start Up: Closure of open items and workarounds on and various punch list items, as well as miscellaneous follow on scope satisfactorily transition over to Operations as well as East Link tie in in 2022.



OMFE Site

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# **Project Cost Summary**

The Baseline Budget (July 2016) for the OMF East is \$449.2M. The OMF East cost is summarized into two cost tables. The first table is in accordance with Sound Transit's Work Breakdown Structure (WBS) displaying the cost summary by phase. The second table summarizes project cost by SCC, in accordance to the FTA Standard Cost Categories (SCC) format. Both tables show figures in millions.

The Estimated Final Costs (EFC) continues to be projected at approximately \$449.2M but there is high probability that there will be savings. The project is currently finalizing the anticipated savings. This period's project expenditure is approximately \$206K. The total project cost incurred increased from approximately \$377M to \$377.3M. The majority of the costs are driven by post acceptance activities or associated startup cost in the Construction phase.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$17.6	\$17.6	\$10.6	\$10.6	\$17.6	\$0.0
Preliminary Engineering	\$9.5	\$9.5	\$8.7	\$8.7	\$9.5	\$0.0
Final Design	\$0.4	\$0.4	\$0.0	\$0.0	\$0.4	\$0.0
Construction Services	\$19.3	\$19.3	\$17.6	\$17.7	\$19.3	\$0.0
Third Party Agreements	\$3.1	\$3.1	\$0.3	\$0.1	\$3.1	\$0.0
Construction	\$264.8	\$264.8	\$240.0	\$237.8	\$264.8	\$0.0
ROW	\$134.5	\$134.5	\$102.7	\$102.6	\$134.5	\$0.0
Total	\$449.2	\$449.2	\$379.9	\$377.5	\$449.2	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$2.6	\$4.4	\$4.4	\$4.3	\$4.3	\$0.0
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
30 Support Facilities: Yard, Shop	\$140.1	\$136.1	\$134.1	\$133.0	\$141.5	(\$5.4)
40 Sitework & Special Conditions	\$43.6	\$48.5	\$43.0	\$42.3	\$45.4	\$3.2
50 Systems	\$43.0	\$41.6	\$41.2	\$40.9	\$41.2	\$0.4
Construction Subtotal (10 - 50)	\$229.3	\$230.6	\$222.7	\$220.5	\$232.4	(\$1.8)
60 ROW, Land, Improvements	\$134.5	\$134.5	\$102.7	\$102.6	\$134.5	\$0.0
70 Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
80 Professional Services	\$71.6	\$70.3	\$54.5	\$54.4	\$68.5	\$1.8
90 Unallocated Contingency	\$13.8	\$13.8	\$0.0	\$0.0	\$13.8	\$0.0
Total (10 - 90)	\$449.2	\$449.2	\$379.9	\$377.5	\$449.2	\$0.0

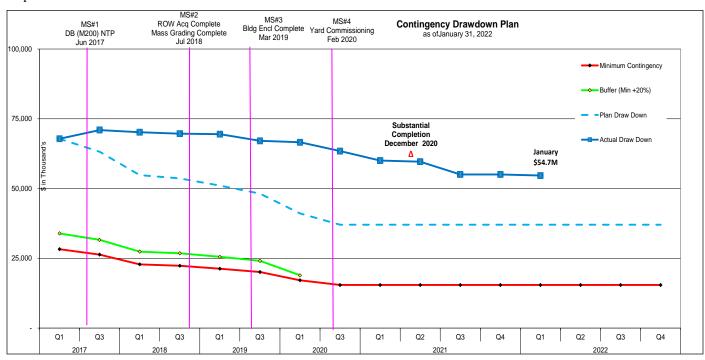
Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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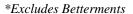
### **Contingency Drawdown**

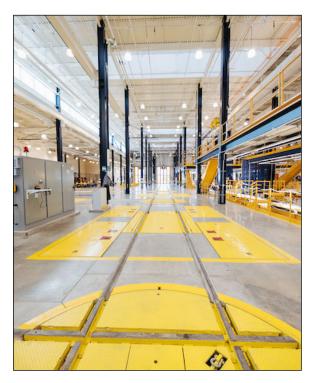
At Substantial Completion in December 2020, OMF East Project's total contingency drawdown plan remained positive. Project contingency at this juncture remains unchanged from the previous quarter and is expected to remain positive with the total contingencies balance in January 2022 at approximately \$54.7M. Any future contingency draw may be associated with cost allocation of ancillary scopes associated with the Start Up of near term extension projects. That said, surplus in this project is expected.



# **Contract M200 - OMF East Design Build Cost Summary**

Present Financial Status	Amount					
M200 Contractor – Hensel Phelps						
Original Contract Value	\$218,912,000					
Change Order Value	\$16,194,706					
Current Contract Value	\$235,106,706					
Total Actual Cost (Incurred to Date)	\$233,108,164					
Percent Complete	99.9%					
Authorized Contingency	\$21,891,200					
Contingency Drawdown	\$16,194,706					
*Contingency Index	1.3					





Operations and Maintenance Facility East in Bellevue

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# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. This annual projection remains constant from month to month for the year. The Year-to-Date (YTD) FTE represents the total actual accumulated through this reporting period. Staffing status is summarized in the following table.

The planned FTE monthly average is the monthly annualized average; whereas, the YTD monthly average only reflects the actuals for January 2022. The variance shown is due to longer than anticipated need to support the operational transition and residual project work during this close out phase of the project. The negative variance is not indicative of an immediate budget overage. OMF East has adequate budget to address these cost pressure.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	1.6	2.9	(1.3)
Consultants	1.0	2.1	(1.1)
TOTAL	2.6	5.0	(2.4)

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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# **Project Summary**

#### Scope

Limits North Seattle to Shoreline, Mountlake

Terrace, and Lynnwood Transit Center

Alignment Lynnwood Link extends light rail 8.5 miles to

Snohomish County along I-5 from Northgate Mall in Seattle to the Lynnwood Transit Center, with four new light rail stations. The configuration includes at-grade, elevated, and

retained cut/fill guideway.

Stations Shoreline South/148th

Shoreline North/185th Mountlake Terrace Lynnwood City Center

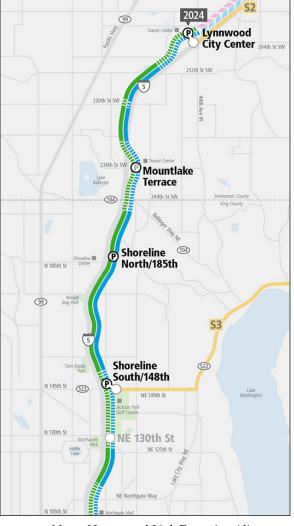
Systems Signals, traction power, communications, and

SCADA.

Phase Construction

**Budget** \$2.772 Billion (Baseline May 2018)

**Schedule** Revenue Service: July 2024



Map of Lynnwood Link Extension Alignment

# **Key Project Activities**

- Continued construction of the Shoreline South / 148th Station plaza level grading, as well as electrical and mechanical rough-in for the adjacent parking garage (L200).
- Continued construction of the Shoreline North / 185th Station including station canopy steel framing (L200).
- Continued construction of the Mountlake Terrace Station, including interior room finishes (L300).
- Continued construction of the Lynnwood City Center Station, including escalator installation, site plaza grading and deck concrete for the adjacent parking garage (L300).
- Both civil contracts (L200/L300) have added additional rail crews, and (L200) has begun the installation of ballasted track.

# **Closely Monitored Issues**

- Concrete material supply within King County is being disrupted by an ongoing labor dispute. Snohomish County (L300) is seeing intermittent disruption of concrete material supply due to the labor dispute.
- Milestone dates for guideway and facility handovers from the civil to the systems contractor are under active review.
- Erosion/sediment control measures are being closely monitored on both civil contracts during the wet / winter season.

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# **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are rounded to the first decimal and shown in millions.

For this period, \$29.9M was incurred. The major project expenditures were for civil and systems construction, construction management, and design services during construction. The remaining expenditures were for right-of-way, third party coordination, and staff.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$98.2	\$98.2	\$52.8	\$52.5	\$98.2	\$0.0
Preliminary Engineering	\$39.1	\$39.1	\$39.1	\$39.1	\$39.1	\$0.0
Final Design	\$164.2	\$164.2	\$142.6	\$139.3	\$164.2	\$0.0
Construction Services	\$128.4	\$139.0	\$110.2	\$74.3	\$139.0	\$0.0
3rd Party Agreements	\$14.6	\$17.6	\$12.8	\$10.4	\$17.6	\$0.0
Construction	\$1,921.4	\$2,094.6	\$1,908.2	\$1,150.3	\$2,094.6	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$235.7	\$219.1	\$178.2	\$173.7	\$219.1	\$0.0
Project Contingency	\$170.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$2,771.6	\$2,771.6	\$2,443.7	\$1,639.5	\$2,771.6	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$791.8	\$1,002.2	\$681.9	\$423.5	\$791.8	\$210.4
20 Stations	\$333.8	\$333.8	\$413.8	\$230.8	\$432.9	-\$99.2
30 Support Facilities	\$2.0	\$2.0	\$0.2	\$0.1	\$2.0	\$0.0
40 Sitework & Special Conditions	\$421.1	\$426.2	\$606.5	\$431.1	\$585.7	-\$159.5
50 Systems	\$244.4	\$244.4	\$195.8	\$57.7	\$218.1	\$26.3
Construction Subtotal (10 - 50)	\$1,793.0	\$2,008.5	\$1,898.1	\$1,143.3	\$2,030.5	-\$21.9
60 ROW, Land	\$235.7	\$229.7	\$178.2	\$173.7	\$219.1	\$10.6
70 Vehicles (Non-Revenue)	\$1.4	\$1.4	\$0.0	\$0.0	\$1.4	\$0.0
80 Professional Services	\$449.3	\$448.6	\$367.5	\$322.5	\$472.9	-\$24.3
90 Unallocated Contingency	\$292.2	\$83.4	\$0.0	\$0.0	\$47.8	\$35.6
Total (10 - 90)	\$2,771.6	\$2,771.6	\$2,443.7	\$1,639.5	\$2,771.6	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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# **Contingency Management**

The Lynnwood Link project budget was baselined in May 2018 with a total contingency of \$737.7M.

**Design Allowance (DA)** was established to account for unquantified scope at the time of the cost estimate. DA was fully drawn down when all construction contract packages reached the 100% design level.

**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement.

Unallocated Contingency (UAC) is used to address general project-wide cost risks and uncertainties.

Following a significant drawdown in project contingency in Q2/Q3 2019, Sound Transit revised the contingency forecast to align with the cash flow forecast of the major civil contracts.

During the current period, Allocated Contingency decreased by a net amount of \$55.7M due to construction change orders along with movement of contingencies to future commitments to support upcoming Board actions for various phases.

#### Contingency Status

#### Current Status Baseline Туре Remaining % of Work % of Total Amount Budget Amount Remaining Design \$247.9 8.9% \$0.0 0.0% Allowance Allocated \$197.6 7.1% \$126.1 11.1% Contingency Unallocated \$292.2 10.5% \$47.8 4.2% Contingency \$737.7 26.6% \$173.9 15.4% Total:

#### Contingency by Type

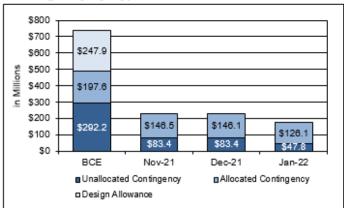
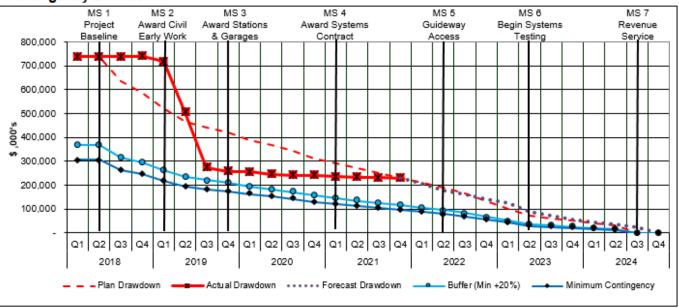


Table figures are shown in millions.

#### Contingency Drawdown



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# **Risk Management**

The following are the top project risks:

- Availability and budget for ongoing design support during the construction phase.
- Inability to supply adequate electrical power for the Shoreline South/148<sup>th</sup> station, garage and nearby TPSS in time to support testing in Q2 2022.
- Systems subcontractor may impact completion based on their volume of work across multiple projects.
- Third parties / AHJ may request additional scope as part of permit inspections / approvals.
- Ongoing labor dispute affecting ready-mix concrete deliveries resulting in delay of civil handover to follow on systems contractor.

# **Project Schedule**

Weighted percent complete of the major construction contracts is calculated at 59.2%

The Master Schedule has been updated through January. The schedule updates for L200, L300, and L800 are currently under review. The ongoing labor dispute related to ready-mix concrete deliveries continues to be the driving element of the project schedule. The project retains a projected 96 days of project float as of the end of January. ST/CMC are currently developing recovery scenarios to mitigate the projected impacts of the labor dispute.

ctivity Name	Start	Finsh	2021	- A. C.	The part of	022	10 1770			2023	W. W. W. W.	200	2024	V-045
			Q4	Q1	Q2	Q3	04	Q1	Q2	Q3	Q4	Q1	02	Q3
LLE Master Schedule	20-May-10A	29-Feb-24										-		
Project Administration	20-May-10 A	29-Feb-24										~		
Final Design/Preconstruction	01-Sep-15A	18-Dec-23						_						
Project Wide Utilties	01-Aug-18A	25-Mar-19 A												
L200 - Third Party Agreements	01-Aug-16A	03-Oct-22					~							
L300 - Third Party Agreements	02-May-16A	21-Oct-22					_							
Permitting & AHJ Agreements	07-Jan-15A	15-Aug-22				_								
Owner Furnished Equipment	01-Od-21A	30-May-23						_	-					
L350 200th St. Widening	09-Apr-18A	05-Jan-23						-						
North Maint. of Way (MOW)	07-Dec-23	26-Dec-23									9			
L200 ROW Acquisitions	04-Jan-16A	28-Apr-22			-									
L200 Civil Construction	25-Dec-18A	12-Nov-23									_			
L300 ROW Acquisitions	14-Jan-16A	03-Jul-23						_		-				
L300 Civil Construction	25-Sep-18A	05-Aug-23						_		-				
L800 Systems Construction	04-Dec-20A	08-Jan-24						_				•		
LLE Rail Activation	02-Aug-21A	17-34-24												~
RA Tasks	02-Aug-21 A	24-Apr-24						<del>                                     </del>					_	
Pre-Revenue Service	06-Dec-23	05-Apr-24									-	_	7	
Revenue Service Preparation	16-Mar-24	13-Apr-24										-	-	
Revenue Service - FFGA	13-Apr-24	17-Jui-24											9	-
Program Wide Float - (96 CD)	13-Apr-24	17-Jul-24												
Revenue Service - 7/17/2024		17-Jui-24												

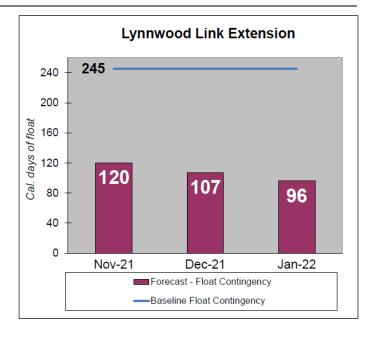
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### **Project Float**

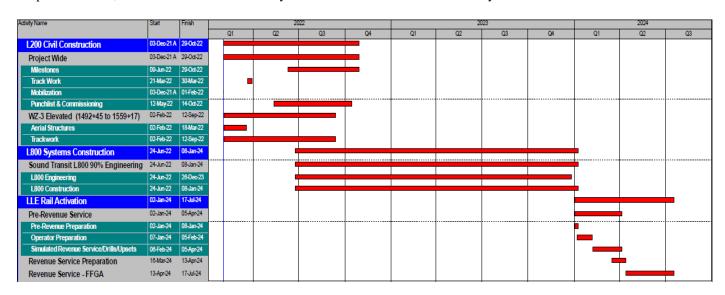
The Lynnwood Link Extension was baselined with 245 days of project float. Currently, the project is calculated to have 96 days remaining between completion of work and the July 17, 2024 revenue service date. While ST is continuing to work with the L200 contractor to improve the accuracy of the forecast for the work, the ongoing labor dispute related to ready-mix concrete deliveries continues to be the current driver of the schedule.

The float reported is based on the January schedule updates from both civil and systems contractors, which is still under review.



#### **Critical Path Analysis**

The critical path for the Lynnwood Link Extension continues to be the L200 contract. As of the end of January, the critical path continues to be driven by the ongoing labor dispute related to ready-mix concrete delivery drivers and King County concrete suppliers. ST and SKH are working on recovery schedules based on multiple potential conclusion dates of the dispute. As the dispute continues, it continues to overshadow any other concurrent weather related delays.



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# **Community Engagement**

Distributed construction alerts via project page, .gov list server, email and door-to-door for activities around the project site, including:

- Night work on NE 145th Street and adjacent I-5 ramps in Seattle, as well as on NE 175th Street and the adjoining I-5 ramps in Shoreline; additionally, night work on along the I-5 and State Route 104 Interchange through December.
- Reopening NE 189th Street, NE 185th Street and 5th Avenue NE, and at NE 183rd Court and NE 182nd Court to traffic in Shoreline.
- Nighttime closures of 236th Street SW in Mountlake Terrace, as well as nightly MLT garage entrance closure; additionally, nighttime temporary water shut offs along 48th Ave in Lynnwood.
- Daytime noise alert for water jet vacuum excavation at the Aldercrest staging yard.

Community Engagement staff also closed out three (3) temporary construction easements, held one property owner meeting, along with one community conversation with local Community Based Organizations for the Lynnwood TOD project.

# Right-of-Way

The Right-of-Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations.

The Right-of-Way program status for this period is summarized in the following table. For Lynnwood Link Extension total number of parcels available for construction is 341.

Lynnwood Link Extension Property Acquisition Status								
	ACQUISIT	RELOCATION						
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date			
363	400	783	755	387	381			

<sup>\*</sup>All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of the report periods.

Total Acquisitions: Defined as parcels recognizing only land, not owners

Board Approved: Based on parcels and properties (including multi-unit acquisitions)

Offers/Closings: Based on inclusive offers made to separate owners and interest holders

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual average FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Less ST staff than planned. Less consultants than planned due to reduction of civil/systems final design they reached completion.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	41.5	38.5	3.0
Consultants	120.0	108.0	12.0
TOTAL	161.5	147.0	15.0
	·	·	·

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173

#### **Construction Safety**

Data/Measure	January 2021	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	32		
Days Away From Work Cases	0	0	4		
Total Days Away From Work	0	0	60		
First Aid Cases	0	0	68		
Reported Near Mishaps	0	0	60		
Average Number of Employees on Worksite	600	-	-		
Total # of Hours (GC & Subs)	158,359	158,359	3,288,350		
OSHA Incident Rates	January 2021	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	1.95		
LTI Rate	0.00	0.00	0.24		
Recordable National Average	2.5				
LTI National Average	1.1				
Recordable WA State Average	5.2				
LTI WA State Average		2.9			

<sup>\*</sup> Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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# Contract L200 GC/CM—Northgate to NE 200th Street

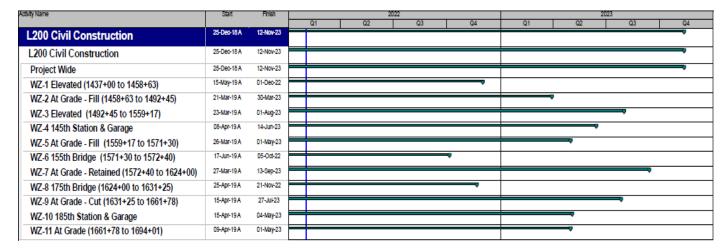
# **Current Progress**

The L200 Contractor, Stacy & Witbeck- Kiewit- Hoffman JV (SKH), is continuing work on site as follows:

- Continued Mechanically Stabilized Earth (MSE) retaining wall construction.
- Continued direct fixation and ballasted track work installation.
- 148th Station Continued erection of canopy steel. Began escalator footings/formwork.
- 148th Garage Continued elevator steel erection. Continued painting level 4 and dry finishes on levels 5 & 6.
- 185th Station Continued ancillary building roof decking installation. Continued pedestrian overcrossing steel erection.
- 185th Garage Continued waterproofing and backfilling. Continued decking formwork on levels 2 and 3.

### **Schedule Summary**

The December update forecasts a September 30, 2023 substantial completion date, 74 calendar days later than the contractual milestone date of July 18, 2023. Within the L200 contract schedule, the critical path continues to be driven by the ongoing labor dispute related to ready-mix concrete drivers and King County batch plant operators. ST, its construction management consultants, and SKH are currently evaluating the impact and potential recovery efforts that could be put in place.

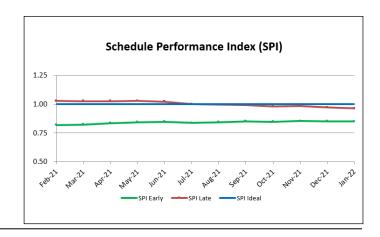


#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.85 (no change from last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 0.96 (decrease from last period).

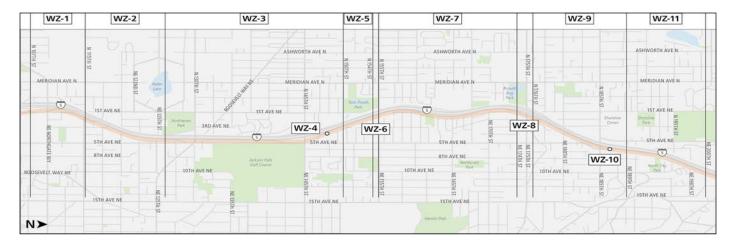
The SPI indicates progress is trending behind the optimistic schedule dates, but close to plan compared to the late dates.



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#### **Work Zone Overview**



#### **Next Period Activities:**

- Continue concrete placement of deck spans and curbs pending resolution of concrete delivery labor dispute.
- Continue MSE wall construction.
- Continue installing 148th station canopy steel and mechanical/electrical framing and rough-ins.
- Begin 185th station canopy steel priming/coating and continue pedestrian walkway structural steel.
- Continue ballasted track work installation.

### **Closely Monitored Issues:**

- Electrical utility crew availability to supply power feeds on schedule for systems testing.
- Ongoing labor dispute between ready-mix concrete delivery drivers and batch plant operators.
- Number of field changes due to design inconsistencies.

#### **Cost Summary**

Present Financial Status	Amount
L200 Contractor - SKH Excludes 130th and betterments	
Original Contract Value	\$88,147,258
Change Order Value	\$765,633,414
Current Contract Value	\$853,780,672
Total Actual Cost (Incurred to Date)	\$557,967,239
Percent Complete	62.4%
Authorized Contingency	\$43,762,892
Contingency Drawdown	\$13,782,408
Contingency Index	2.0



185th station pedestrian overcrossing

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# Contract L300 GC/CM—NE 200th Street to Lynnwood Transit Center

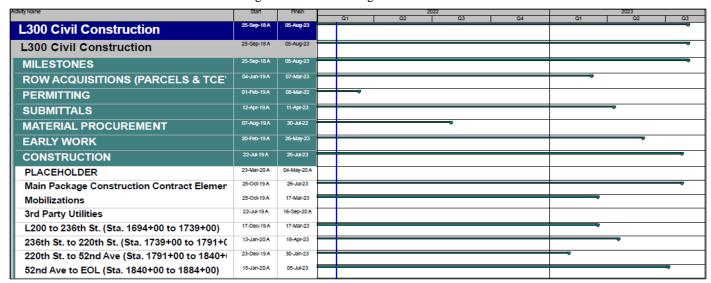
# **Current Progress**

The L300 Contractor, Skanska, is continuing work on site as follows:

- Continued concrete placements at the elevated deck level 3 of the Lynnwood City Center garage.
- Continued track work and plinth installation at the I-5 overcrossing, as well as rail installation along the alignment.
- Continued stairwell and elevator shaft construction at the Mountlake Terrace and Lynnwood stations.
- Continued finishes and electrical/mechanical rough-ins for ancillary rooms at Mountlake Terrace and Lynnwood stations.
- Continued installation of electrical vaults and Traction Power Substation (TPSS) foundations.
- Continued soil nail, cast-in-place, and MSE retaining wall construction.

#### **Schedule Summary**

The January update from Skanska forecasts an August 4, 2023 Substantial Completion date, 11 days ahead of schedule. The critical path is driven by completion of Lynnwood Parking Garage, followed by completion of the Transit Center. Currently the final guideway turnover to L800, the north segment, is 18 days behind. Guideway construction has been intermittently impacted by the ongoing labor dispute related to ready-mix concrete drivers and King County batch operators at the south end of the contract limits. ST and Skanska are evaluating means of recovering this milestone.

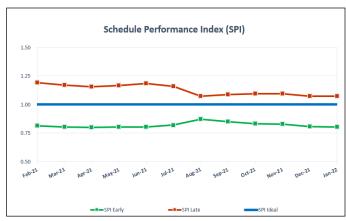


#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.80 (decrease from last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 1.07 (same as last period).

The SPI trends indicate progress is trending behind the optimistic schedule dates, but work is progressing well compared to the late dates of the schedule.



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#### **Work Zone Overview**



#### **Next Period's Activities**

- Continue stairwell and elevator shaft construction at the Mountlake Terrace and Lynnwood stations.
- Continue deck installation at all erected girder spans.
- Continue Lynnwood City Center parking garage work.
- Continue installation of TPSS foundations.
- Continue MSE, soil nail and cast-in-place retaining wall construction.

### **Closely Monitored Issues**

- Ongoing labor dispute between ready-mix concrete delivery drivers and batch plant operators.
- Number of field changes due to design inconsistencies.
- Erosion and sediment control during the wet season.

# **Cost Summary**

Present Financial Status	Amount
L300 Contractor—Skanska	
Original Contract Value	\$56,886,631
Change Order Value	\$793,198,598
Current Contract Value	\$850,085,229
Total Actual Cost (Incurred to Date)	\$523,952,130
Percent Complete	61.6%
Authorized Contingency	\$42,888,048
Contingency Drawdown	\$15,085,229
Contingency Index	1.8



Lynnwood City Center parking garage deck placement

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# Contract L800 Lynnwood Link Systems GC/CM

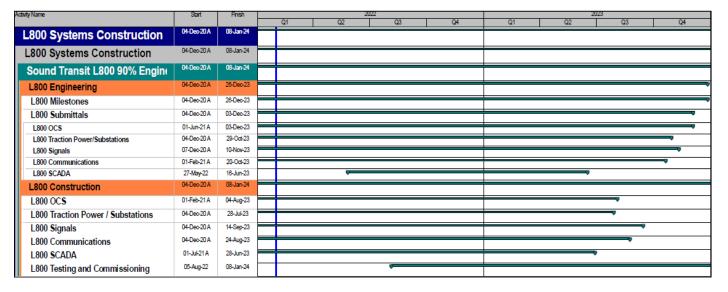
# **Current Progress**

The L800 Contractor, Mass Electric Construction Company (MEC), is continuing work as follows:

- Continued development of engineering submittals and subcontract packages.
- Approvals and procurement of key equipment including Traction Power Substation (TPSS).

#### Schedule Summary

The L800 December schedule update forecasts a contract completion of October 27, 2023, 49 days later than the contractual date. The critical path is driven by the change in the handover date from L200 from February 28th to May 1st 2022. MEC is currently working on mitigation plans. ST is continuing to monitor the progress, as well as looking for opportunities to improve the overall work plan.

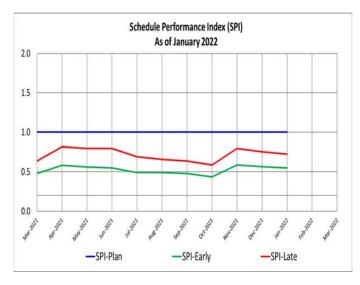


#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.55 (decrease from last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 0.72 (decrease from last period).

The SPI trends indicate progress is trending behind the optimistic and conservative schedule dates. Engineering submittals were planned very optimistically in the baseline schedule, and have not been completed as quickly as planned.



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#### **Next Period's Activities**

- Continue development and reviews of engineering submittals covering all disciplines: TPSS, Overhead Catenary System (OCS), train control signal systems, and communications.
- Continued procurement of key equipment including Traction Power Substation (TPSS) and train control signal system buildings.

# **Closely Monitored Issues**

- Monitoring the manufacture and delivery of long lead equipment such as network switches, TPSS units and signal houses.
- Monitoring the completion of civil package work for potential delays in hand over to the system contractor.
- Monitoring the manufacture and delivery of Supervisory Control and Data Acquisition (SCADA) equipment.
- Monitoring permitting approvals by Washington State Department of Labor & Industries for TPSS and signal house prefabricated structures.

# **Cost Summary**

Present Financial Status	Amount						
L800 Contractor - Mass Electrical Construction Co.							
Original Contract Value	\$148,000,000						
Change Order Value	\$72,801						
Current Contract Value	\$148,072,801						
Total Actual Cost (Incurred to Date)	\$30,964,061						
Percent Complete	26.0%						
Authorized Contingency	\$10,360,000						
Contingency Drawdown	\$72,801						
Contingency Index	37.0						



Representative TPSS unit.

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# **Project Summary**

**Scope** Construct foundation and substructure

elements and complete final design for an elevated, side-platform infill light rail station at NE 130th Street and 5th Ave in

Seattle.

Phase Final Design / Early Construction

**Budget** \$36.4 Million

**Schedule** Target date for station opening: 2025



Map of Project Alignment & Rendering of Station

# **Key Project Activities**

- Ongoing negotiations with contractor for C2 and C3 packages.
- Prepared documentation for Board actions related to baseline budget and schedule.

# **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures in the table is shown in millions.

In the current period, \$731k was incurred. The major project expenditures were for construction services, final design and staffing.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$3.6	\$2.0	\$2.0	\$3.6	\$0.0
Preliminary Engineering	\$2.7	\$2.7	\$2.7	\$2.7	\$0.0
Final Design	\$10.8	\$9.3	\$8.9	\$10.8	\$0.0
Construction Services	\$2.1	\$1.6	\$1.4	\$2.1	\$0.0
3rd Party Agreements	\$1.0	\$0.7	\$0.5	\$0.9	\$0.0
Construction	\$16.0	\$6.3	\$5.2	\$16.0	\$0.0
ROW	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Project Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$36.4	\$22.7	\$20.8	\$36.4	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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# **Risk Management**

The following are the top project risks identified:

- Local permitting authorities may require additional right-of-way improvements beyond what was budgeted.
- Added cost savings measures may require added re-design and major schedule impact to 2025 delivery.
- Potential challenges in synchronizing specific construction milestones with Lynnwood Link.

# **Project Schedule**

Design for the station, both Civil and Systems, is essentially complete. Pricing and negotiation efforts are currently underway. Permitting activities for the building, WSDOT utility and Street Improvement permits are ongoing. Development of construction and activation schedules has advanced and these schedules are now included as part on the integrated schedule.

Construction of the initial C1 package is complete.

Activity Name	Start	Finish			2022			20	23			20	24			20.	<b>2</b> 5	U
	04-Feb-19 A	29-Deo-25	Q4	Q1	Q2 (	Q3 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4 C
L210 130th Station - I	04-Feb-19 A	24-060-25																I
Project Management	24-Jun-21 A	28-Apr-22			-													
Preliminary Design	04-Feb-19 A	14-Nov-19 A	П															
Final Design	30-Sep-19 A	19-Nov-21 A	H															
Permitting	16-Mar-20 A	02-Aug-22	H			1												
Estimating/Negotiation:	23-Dec-19 A	25-May-22	H		•													
Construction Summary	12-May-22	29-Dec-25	H		•													<del></del>
L210 130th Station - (	22-Sep-20 A	05-Sep-25															_	
Project Wide Managem	22-Sep-20 A	22-Jul-25															-	
Site Construction	13-Jun-22	05-Sep-25			-												_	
Utilities	24-Apr-23	09-May-23	П					•										
Retaining Walls	24-Apr-23	25-Jul-23						•	_									
Aerial Structures	18-Jul-22	10-Nov-22			-	7												
130th Station	13-Jun-22	26-Feb-25			-										Ì			
Systems	08-Nov-24	30-Jun-25												_			'	
Landscaping / Flatwork	21-Nov-24	14-Mar-25																
Civil Roadway	17-Dec-24	05-Sep-25															<u> </u>	
L210 130th Station - F	02-Jan-24	29-Dec-25								,								
RA Tasks	02-Jan-24	23-Sep-25								,								
Pre-Revenue Service	18-Jun-25	23-Sep-25														-	•	
Revenue Service Prepa	02-Sep-25	01-Oct-25															_	'
Revenue Service	30-Sep-25	29-Dec-25															•	$\overline{}$

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# **Community Engagement**

This period the Community Engagement team continued efforts to keep the community informed by:

- Preparing for future online open house planned for Q2 2022.
- Answering questions from the public about current station renderings.
- Preparing for presentation of the final station finishes package to the Seattle Design Commission.

# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTEs are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

The YTD Actual FTE Monthly Average through the end of the current period is above the Planned FTE Monthly Average, with more design and CM staff than planned.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.8	3.0	2.8
Consultants	4.0	8.0	(4.0)
TOTAL	9.8	11.0	(1.3)

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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# **Contract Cost Summary**

# **Civil Final Design Overview**

Sound Transit executed an amendment with HNTB Jacobs to perform civil final design for NE 130<sup>th</sup> station in the Lynnwood Link corridor to investigate the possibility of integrating the 130th St Infill Station into Lynnwood Link. Design services include preparation of comprehensive civil contract documents for construction, design coordination and cooperation with the GC/CM contractors, permit support, survey, geotechnical investigations, right-of-way planning and acquisition support, third party coordination support, risk assessment support, value engineering and constructability support, building and station design and sustainability reports. Work this period included assisting with station permitting and WSDOT approvals.

Present Financial Status	Amount					
HNTB Jacobs- Civil Final Design						
Original Contract Value	\$1,570,864					
Change Order Value	\$6,291,145					
Current Contract Value	\$7,862,009					
Total Actual Cost (Incurred to Date)	\$7,541,200					
Financial Percent Complete	96%					
Authorized Contingency	\$1,951,541					
Contingency Drawdown	\$1,913,290					
Contingency Index	0.98					

# **Systems Final Design Overview**

Sound Transit executed an amendment with LTK Engineering to perform systems final design for NE 130th station in the Lynnwood Link corridor to investigate the possibility of integrating the 130th St Infill Station into Lynnwood Link. Design services include preparation of comprehensive contract documents for construction, design coordination and cooperation with the civil final designer, permit support, third party coordination support, risk assessment support, value engineering and constructability support, schedules and cost estimating. Work this period included finalizing IFC documentation.

Present Financial Status	Amount
LTK- Systems Final Design	
Original Contract Value	\$299,332
Change Order Value	\$823,076
Current Contract Value	\$1,122,408
Total Actual Cost (Incurred to Date)	\$1,005,393
Financial Percent Complete	90%
Authorized Contingency	\$110,310
Contingency Drawdown	\$0
Contingency Index	N/A

#### **Construction Overview**

Sound Transit executed an amendment to the Lynnwood Link L200 contract with Stacy & Witbeck-Kiewit-Hoffman JV (SKH) for the addition of drilled shafts, columns and crossbeams required for incorporation of the 130th Street station structure into the L200 guideway structure as an "integrated structure." This is consistent with direction received from Sound Transit Board to progressively advance the station. Work this period included commencement of negotiations based on the Issued for Construction (IFC) set for the remaining station elements.

Present Financial Status	Amount
SKH- Civil Construction	
Original Contract Value	\$5,000,000
Change Order Value	\$37,805
Current Contract Value	\$5,037,805
Total Actual Cost (Incurred to Date)	\$5,037,805
Percent Complete	100%
Authorized Contingency	\$5,372,195
Contingency Drawdown	\$37,805
Contingency Index	14.2

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# **Project Summary**

#### Scope

Limits The Northgate Link Extension consists of 4.3

miles of light rail extending from the

University of Washington to Northgate.

Alignment The extension begins at UW Station,

continues under UW campus, then north to a portal at NE 94th Street, then transitioning to

an aerial structure north to Northgate Mall.

Stations U District Station (UDS)

Roosevelt Station (RVS)

Northgate Station and Parking Garage

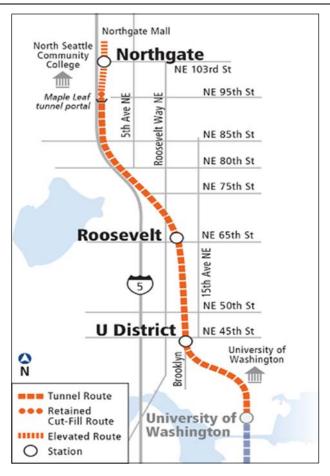
Systems Signals, track electrification, and SCADA

communications

Phase Revenue Service

Budget \$1.899 Billion

**Schedule** Revenue Service: October 2021



Map of Project Alignment

# **Key Project Activities**

- U District Station/UW Campus (N140) Roosevelt Station (N150) and Northgate Station (N160): The project successfully opened for Revenue Service 10/2/21. The project is now in closeout phase, focusing on completion of remaining open project items and documentation of lessons learned.
- Systems (N830): Punch list items for all disciplines are in the verification phase prior to full closure. Building Management System (BMS) testing is complete. Minor updates resulting from test findings will be deployed on the Northgate Train Control System (NG TCS) pending completion of field work and scheduling with Operations staff.

# **Closely Monitored Issues**

• Systems N830: The team continues to receive, track and close issues that arise post-revenue-service start-up.

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# **Project Cost Summary**

The project cost is summarized in two cost categories. The first table summarizes cost in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes the project in accordance with the FTA's Standard Cost Category (SCC) format. The figures in both tables are shown in millions.

The Estimated Final Cost (EFC) for the project as of this reporting period is \$1,847.3M, which is \$52.5M below the current project budget, unchanged since last period. This period, approximately \$6.0M was incurred, mostly on the active construction and construction management contracts.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$144.9	\$130.4	\$98.5	\$98.4	\$124.1	\$6.3
Preliminary Engineering	\$15.1	\$15.1	\$15.1	\$15.1	\$15.1	\$0.0
Final Design	\$132.2	\$137.2	\$121.8	\$119.9	\$132.0	\$5.2
Construction Services	\$118.3	\$118.3	\$105.5	\$105.1	\$112.2	\$6.1
3rd Party Agreements	\$11.8	\$11.8	\$10.4	\$8.0	\$11.0	\$0.8
Construction	\$1,343.0	\$1,352.5	\$1,298.4	\$1,292.0	\$1,341.9	\$10.6
ROW	\$112.3	\$112.3	\$102.1	\$102.1	\$111.0	\$1.3
Project Contingency	\$22.2	\$22.2	\$0.0	\$0.0	\$0.0	\$22.2
Total	\$1,899.8	\$1,899.8	\$1,751.7	\$1,740.7	\$1,847.3	\$52.5

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$595.6	\$522.0	\$516.4	\$515.5	\$521.1	\$0.9
20 Stations	\$376.1	\$464.7	\$461.4	\$459.8	\$465.9	-\$1.2
30 Support Facilities: Yard, Shop	\$5.3	\$6.5	\$6.5	\$6.5	\$6.5	\$0.0
40 Sitework & Special Conditions	\$140.8	\$188.2	\$181.8	\$178.2	\$185.0	\$3.2
50 Systems	\$110.9	\$117.1	\$105.9	\$107.1	\$116.1	\$1.1
Construction Subtotal (10 - 50)	\$1,228.7	\$1,298.6	\$1,272.0	\$1,267.2	\$1,294.5	\$4.0
60 Row, Land, Improvements	\$119.9	\$110.9	\$102.1	\$102.1	\$111.0	-\$0.1
70 Vehicles	\$0.0	\$0.2	\$0.2	\$0.2	\$0.2	\$0.0
80 Professional Services	\$420.7	\$422.9	\$377.4	\$371.3	\$423.5	-\$0.6
90 Contingency	\$130.4	\$67.3	\$0.0	\$0.0	\$18.0	\$49.2
Total (10 - 90)	\$1,899.8	\$1,899.8	\$1,751.7	\$1,740.7	\$1,847.3	\$52.5

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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# **Risk Management**

The remaining top project-wide risks are:

- Follow-on Job Order Contractor (JOC) work may cost more or take longer than anticipated.
- Environmental monitoring and remediation at Key Bank and Silver Platters sites may cost more than anticipated.
- Additional requests from other ST departments may increase project costs and prevent timely closeout.

# **Community Engagement**

We are monitoring outreach needs for the project and are available to answer any questions.

# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Northgate Link Extension has entered Revenue Service and the project is essentially in closeout. The Staffing Plan has been discontinued from 2022 forward.

Below are the actuals for January 2022, which will be the final month reporting on this section.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	N/A	14	N/A			
Consultants	N/A	6	N/A			
TOTAL	N/A	20	N/A			
An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.						

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#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

# **Major Construction Contract Packages**

Below are the major construction contract packages for the project with a brief scope description of each.

**N105 Advance Demolition and Site Prep** - Demolition of Key Bank Building, removal of underground storage tanks and remediation of contaminated soil at UDS. Demolition site and site prep at strip mall near the NG Station. (Complete)

N111 Advanced Utility Relocation at Northgate Area - Relocation of 26kV and communication lines at the Northgate Station vicinity. (Complete)

N113 115kV Relocation at Northgate Station Area - Relocation of overhead electrical facilities at the Northgate Station area. (Complete)

**N125 TBM Tunnels UW Station to Maple Leaf Portal** - Tunneling work and support of excavation of station boxes for the U District and Roosevelt stations. (Complete)

N140 U District Station Finishes - Civil and architectural finishes work for the U District Station (Substantially Complete)

N150 Roosevelt Station Finishes – Civil and architectural finishes work for the Roosevelt Station (Substantially Complete)

**N160 Northgate Station & Elevated Guideway & Parking Garage -** Civil and architectural finishes work for the Maple Leaf Portal, the aerial guideway, and the Northgate Station and Tail Track. Construction of a 450 stall parking garage to be located at the south corner of the existing Northgate Mall surface parking lot at NE 103rd St. near 1st Avenue NE. (Substantially Complete)

**N180 Trackwork -** Installation of all trackwork through two tunnels and three stations between UW Station and Northgate Station, including tail track. (Complete)

**N830 Track Electrification, Signals, Communication System -** Installation of the major system elements – Traction Electrification, 26kV Distribution, Signals, and Communications. (Substantially Complete)

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### Contract N140—U District Station Finishes

# **Current Progress**

The N140 Contractor, Hoffman Construction, achieved Substantial Completion in April 2020. Hoffman focused on the following activities through the end of January 2022:

Continued administrative closeout activities.

### **Closely Monitored Issues**

Nothing to report.

# **Cost Summary**

Present Financial Status		Amount		
N140 Contractor—Hoffman Construction				
Original Contract Value	\$	159,836,688		
Change Order Value	\$	14,688,730		
Current Contract Value		174,525,418		
Total Actual Cost (Incurred to Date)		174,170,580		
Percent Complete		100.0%		
Authorized Contingency		15,491,834		
Contingency Drawdown		14,688,730		
Contingency Index		1.1		

### **Contract N150 – Roosevelt Station Finishes**

### **Current Progress**

The N150 Contractor, Hoffman Construction, achieved Substantial Completion in September 2019. Hoffman focused on the following activities through the end of January 2022:

Continued administrative closeout activities.

# **Closely Monitored Issues**

Nothing to report.

# **Cost Summary**

Present Financial Status	Amount			
N150 Contractor—Hoffman Construction				
Original Contract Value	\$ 152,291,184			
Change Order Value	\$ 18,791,006			
Current Contract Value	\$ 171,082,190			
Total Actual Cost (Incurred to Date)	\$ 171,053,434			
Percent Complete	100.0%			
Authorized Contingency	\$ 18,914,559			
Contingency Drawdown	\$ 18,791,006			
Contingency Index	1.0			

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# Contract N160 - Northgate Station, Elevated Guideway, and Parking Garage

# **Current Progress**

The N160 prime contractor, Absher Construction, achieved Substantial Completion in December 2020. Accomplishments through the end of January 2022 include:

• Continued closeout of open change management items.

# **Closely Monitored Issues**

Nothing to report.

# **Cost Summary**

Present Financial Status		Amount		
N160 Contractor - Absher Construction				
Original Contract Value	\$	174,000,000		
Change Order Value	\$	19,894,291		
Current Contract Value	\$	193,894,291		
Total Actual Cost (Incurred to Date)	\$	192,507,462		
Percent Complete		99.7%		
Authorized Contingency		20,400,000		
Contingency Drawdown	\$	19,894,291		
Contingency Index		1.0		

# Contract N180 - Trackwork UWS to Northgate Station

#### **Current Progress**

The N180 Contractor, Stacy and Witbeck, Inc. (SWI) achieved Substantial Completion of all Milestones in October 2019.

 ST is currently awaiting final billing to proceed with closeout activities.

# **Closely Monitored Issues**

Nothing to report.

### **Cost Summary**

Present Financial Status		Amount		
N180 Contractor - Stacy and Witbeck, Inc.				
Original Contract Value	\$	71,455,950		
Change Order Value	\$	4,017,015		
Current Contract Value	\$	75,472,965		
Total Actual Cost (Incurred to Date)	\$	75,454,611		
Percent Complete		100.0%		
Authorized Contingency		10,718,393		
Contingency Drawdown	\$	4,017,015		
Contingency Index		2.67		

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### Link Light Rail Northgate Link Extension



#### Contract N830 - Northgate Link Systems, Heavy Civil GC/CM

#### **Current Progress**

The N830 Contractor, Mass Electric Construction Co. (MEC) achieved substantial completion in August 2021. MEC is continuing work in the areas below:

- Performed punch list work at U District Station (UDS).
- Performed punch list work at Roosevelt Station (RVS).
- Performed punch list work at Northgate Station (NGS).

#### **Closely Monitored Issues**

None to report.

#### **Cost Summary**

Present Financial Status	Amount						
N830 Contractor - Mass Electric Construction Co.							
Original Contract Value	\$	104,660,444					
Change Order Value	\$	2,622,955					
Current Contract Value	\$	105,354,827					
Total Actual Cost (Incurred to Date)	\$	105,662,581					
Percent Complete		99.7%					
Authorized Contingency	\$	7,233,022					
Contingency Drawdown	\$	2,622,955					
Contingency Index		2.79					

<sup>\*</sup>The N830 and E750 Systems is a joint procurement. The Cost Summary table above represents N830 Systems only.

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#### **Project Summary**

Scope

Limits Federal Way Transit Center to South

Federal Way, Fife, East Tacoma, and

Tacoma Dome

Alignment The Tacoma Dome Link Extension (TDLE)

expands light rail 9.7 miles from the Federal Way Transit Center to Tacoma. The representative alignment travels adjacent to I-5 with four stations.

Stations South Federal Way, Fife, and East Tacoma

(elevated stations) and Tacoma Dome

(at-grade station)

Systems Signals, traction power, communications

(SCADA), Operations and Maintenance

Facility South (OMF South)

Phase Planning: Alternative Development/Project

Development

**Budget** \$125.7 Million for Preliminary Engineering

Phase 1—Alternative Development Phase 2

**Schedule** Target Dates:

Tacoma Dome Station, 2032

Parking at South Federal Way & Fife, 2038



Map of Tacoma Dome Link Extension.

#### **Key Project Activities**

Major activities are highlighted below. Additional activities for this report period can be found on the following report pages.

#### Tacoma Dome Link Extension (TDLE)

Continued production of the DEIS.

#### **Operations and Maintenance Facility South (OMF South)**

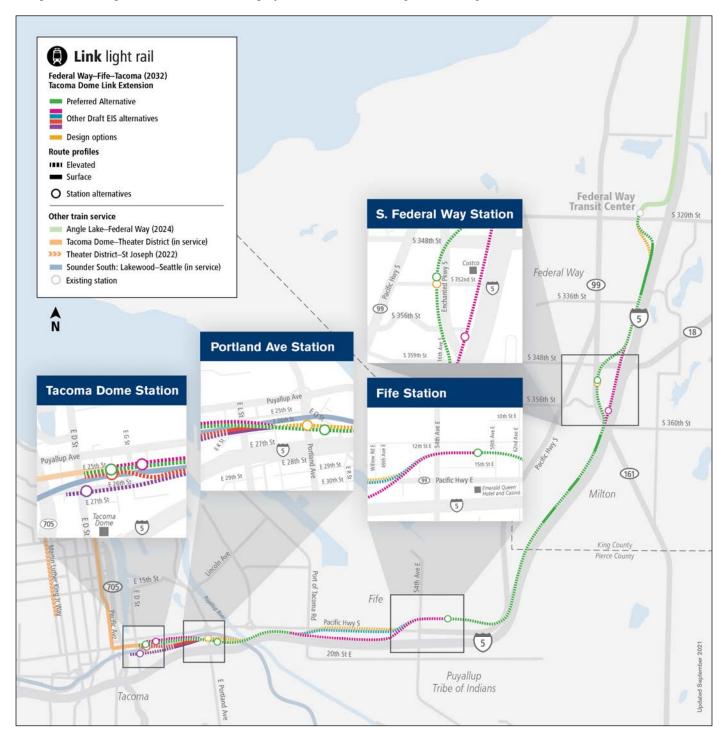
- Phase III SOW & budget approved by CCB.
- Phase 3 SOW & Budget Staff Report drafted and entered into CoBRA.
- Continued planning for March OMF South Phase Gate 2 meeting.
- Real Property meetings with Christian Faith Church related to upcoming geotechnical borings.

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#### **Project Map**

Graphic below depicts addition detail of the project route and station alignments being considered.



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#### **Project Cost Summary**

The Tacoma Dome Link Extension and OMF South project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format.

For this period \$785K was incurred. The majority of project expenditures were for preliminary engineering.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$27.8	\$15.0	\$14.9	\$27.8	\$0.0
Preliminary Engineering	\$86.8	\$50.9	\$36.4	\$86.8	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$6.4	\$2.9	\$0.9	\$6.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$5.4	\$1.0	\$0.5	\$5.4	\$0.0
Total	\$126.4	\$69.8	\$52.8	\$126.4	\$0.0

#### **Cost Summary by SCC**

SCC Element	Authorized Project Allocation	Commitment to Date	Incurred to Date	Final ( Act			
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0			
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
30 Support Facilities	\$0.0	\$0.0	\$0.0		\$0.0 \$0		\$0.0
40 Sitework & Special Conditions	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
50 Systems	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
Construction Subtotal (10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
60 Row, Land	\$4.4	\$1.0	\$0.5	\$4.4	\$0.0		
80 Professional Services	\$119.6	\$68.8	\$52.3 \$119		\$52.3 \$119		\$0.0
90 Unallocated Contingency	\$2.4	\$0.0	\$0.0	\$2.4	\$0.0		
Total (10 - 90)	\$126.4	\$69.8	\$52.8	\$126.4	\$0.0		

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Risk Management**

The following are the top project wide risks:

- Encounter artifacts and/or human remains (tribal) during construction causing major delays and/or need to change alignment.
- Contaminated soil and/or groundwater are discovered during OMF South construction resulting in increased costs (applies to all sites).
- Existing buildings below the proposed guideway/stations require upgrades/replacement to meet code requirements (i.e.-Construction type challenges), thus increasing project costs.
- OMF South can't be built in time for ST3 vehicle schedule. This schedule concern could happen during alternatives development, environmental, design, or construction phases.
- Right-of-way cost may increase more than projected escalation rates as a result of property value increases in the region.
- Close to Sounder alignment options have substantial impact on Tacoma Link, Sounder, Amtrak, PS Transit, ST Express, and Greyhound operations.
- Delays caused by local AHJ reviews.
- City of Tacoma requests pedestrian bridge crossing I5 in East Tacoma (Portland Ave. station) which was not included in ST3 scope assumption.
- Community concerns and comments result in delays to design approval.
- The two alternative sites in Federal Way may require multiple road vacations. The city may require exceptional public benefit.
- Construction cost may increase more than the projected escalation rate as a result of general construction cost increases in the region.
- Lack of federal funding for public transit projects could delay the project.
- Unknown utility conflicts may be discovered during construction that can increase cost and delay schedule.
- New commercial development on affected parcels drives the ROW cost higher.

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#### **Tacoma Dome Link Extension**

#### **Current Progress**

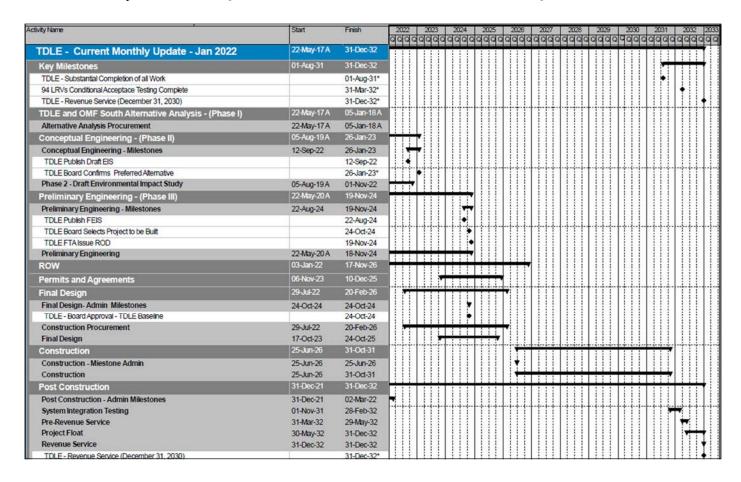
- Continued collaboration with the City of Federal Way regarding Code Amendment language related to parking requirements.
- Continued coordination with Bonneville Power Administration regarding reimbursement agreement.

#### **Community Engagement**

- Participated in the monthly New Tacoma Neighborhood Council meeting (virtual meeting on 1/12).
- Participated in monthly meeting with the City of Federal Way (virtual meeting on 1/20).

#### **TDLE Project Schedule**

Below is the summary schedule as of December 31, 2021. The project continues to forecast a publication of the Draft Environmental Impact Statement in Q3 2022 and ST Board Preferred Alternative identified in Q1 2023.

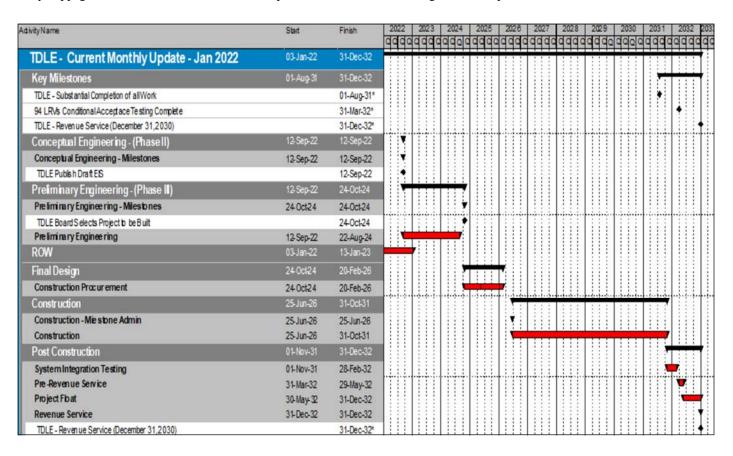


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#### **TDLE Critical Path Analysis**

The critical path for TDLE is running through Phase II publishing of the DEIS and ST Board Preferred Alternative identified. Any slippage to Phase II and Phase III could impact the Revenue Service target date completion of 2032 for TDLE.



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#### **Operations and Maintenance Facility South**

#### **Current Progress**

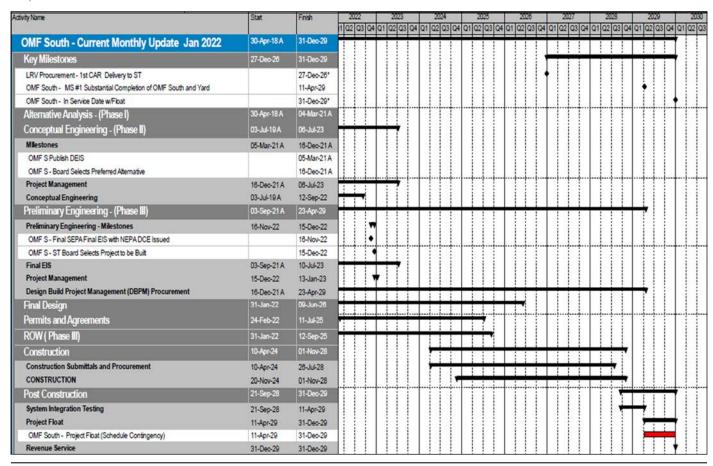
- Introduction of a Test Track scope of work to be developed and costed as part of Phase 3 SOW.
- Clarification of Gap Phase work activities for environmental and design disciplines.
- Meetings with PEPD/DECM/OPS Department Directors on negotiated Phase 3 SOW and budget.
- Confirmed with ST grants staff that OMF South would continue as a non-federalized project.

#### **Community Engagement**

- Participated in monthly meeting with the City of Federal Way (virtual meeting on 1/6).
- Called the Christian Faith Center to review upcoming fieldwork (virtual meeting on 1/20).
- Participated in a 2<sup>nd</sup> monthly meeting with the City of Federal Way (virtual meeting on 1/20).
- Briefed the Pacific Christian Academy School Board (virtual meeting on 1/26).

#### **OMF South Project Schedule**

Below is the summary schedule as of January 31, 2022. ST Board of Directors selected the Preferred Alternative on December 16, 2021.

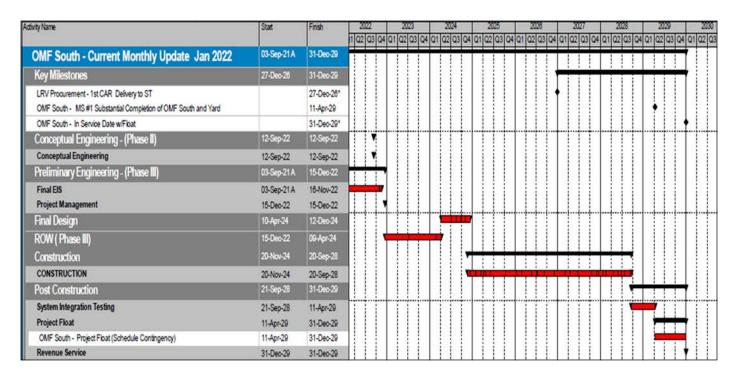


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#### **OMF South Critical Path Analysis**

The critical path for OMF South is running through Preliminary Engineering Final Environmental Impact Statement effort and procurement of the design-build contractor.



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#### Right of Way

The Right of Way effort for this project involves the acquisition of a range of property interests which includes compensable (e.g. fee acquisitions, guideway easements, permanent and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions will result in owner and tenant residential and commercial relocations. The right-of-way program status for this period is summarized in the following table.

Tacoma Dome Link Extension Property Acquisition Status								
ACQUISITION				RELOCATION				
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date			
0	0	0	0	0	0			

<sup>\*</sup>All numbers are cumulative totals, except where noted. Number of totals may differ from other reports due to the timing of the report periods.

Total Acquisitions: Defined as parcels recognizing only land, not owners

Board Approved: Based on parcels and properties (including multi-unit acquisitions)

Offers/Closings: Based on inclusive offers made to separate owners and interest holders

Relocations: Based on number of affected individuals

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Project has planned 95.6 average FTEs per month for the year 2022. To date, both ST and consultant actual staffing levels have recorded a negative variance (underrun) to the Planned Monthly FTE average. The OMF South Phase 3 will be started in March, then the actual FTE will have a upward trend and underrun rate is expected to be decreased. Both ST and Consultant staffing plan will increase gradually and reach it's peak by Q4 of 2022.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	37.3	18.8	18.5
Consultants	58.3	14.2	44.1
TOTAL	95.6	33.0	62.6

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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#### **Project Summary**

#### Scope

The West Seattle Extension includes 4.7 miles of light rail from downtown Seattle to West Seattle's Alaska Junction neighborhood and includes a bridge across the Duwamish Waterway.

#### West Seattle

The Draft EIS includes alternatives on the south and north side of the West Seattle Bridge and elevated and tunnel guideway alternatives in West Seattle Junction.

The Ballard Extension includes 7.1 miles of light rail from downtown Seattle to Ballard's Market Street area.

#### Ballard

The Draft EIS includes alignment alternatives in Downtown, Interbay, and Ballard; different station depths in Chinatown-International District and Downtown; and bridge and tunnel alternatives across Salmon Bay.

Phase Planning

**Budget** \$286.7 M through completion of

**Preliminary Engineering** 

**Schedule** Target dates:

West Seattle Extension: 2032

Ballard Extension: 2037



Map of Project Alignment

#### **Key Project Activities**

- Published the Draft EIS.
- Ongoing fieldwork activities in support of engineering design.
- Initiated Draft EIS public comment period and associated community engagement. Continued Community Advisory
  Groups, property owner webinars, community group briefings and a range of other community engagement activities.
- Continued engagement with partners and regulatory agencies, stakeholder groups and property owners regarding environmental process and next steps.

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#### **Project Cost Summary**

The West Seattle and Ballard Link Extensions are voter-approved projects under the ST3 Plan. The current Authorized Project Allocation (budget) for the project that has been approved by the Sound Transit Board allows staff to conduct alternatives development, followed by an Environmental Impact Statement, leading to ST Board selection of the project to be built and FTA issuance of a Record of Decision in 2023.

Out of the total Authorized Project Allocation, the project is authorized and planned to incur approximately \$41M in 2022 for coordinating Draft EIS development, conceptual engineering; project administration and stakeholder engagement.

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$55.1	\$24.5	\$24.4	\$55.0	\$0.0
Preliminary Engineering	\$215.3	\$93.8	\$88.8	\$215.3	\$0.0
Final Design	\$0.0	\$0.0 \$0.0		\$0.0 \$0.0	
Construction Services	\$0.0	\$0.0	\$0.0 \$0.0		\$0.0
3rd Party Agreements	\$10.4	\$3.4	\$1.5	\$10.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$6.0	\$3.1	\$2.5	\$6.1	\$0.0
Total	\$286.7	\$124.8	\$117.2	\$286.7	\$0.0

#### **Cost Summary by SCC**

SCC Element	Authorized Project Allocation	Commitment to Date	Incurred to Date	Final Cost			
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
20 Stations	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
30 Support Facilities	\$0.0	\$0.0	\$0.0 \$0		\$0.0 \$0.		\$0.0
40 Sitework & Special Conditions	\$0.0	\$0.0	\$0.0 \$0.0		\$0.0		
50 Systems	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
Construction Subtotal (10 - 50)	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
60 Row, Land	\$5.1	\$3.1	\$3.1 \$2.5		\$0.0		
80 Professional Services	\$252.2	\$121.7	\$114.7	\$252.2	\$0.0		
90 Unallocated Contingency	\$29.5	\$0.0	\$0.0	\$29.5	\$0.0		
Total (10 - 90)	\$286.7	\$124.8	\$117.2	\$286.7	\$0.0		

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Risk Management**

The following are the top project wide risks:

- Reaching stakeholder consensus on a preferred alternative, including third party funding.
- Complexity of alignments in a constrained environment with challenging topography and waterway crossings.
- Complexity associated with tunneling through a mature urban environment.
- Potential construction effects in a constrained environment.
- Potential effect on Central Link operations during construction.
- Right-of-way and property impacts.
- Budget risk due to higher current real estate costs and construction costs.

#### **Community Engagement**

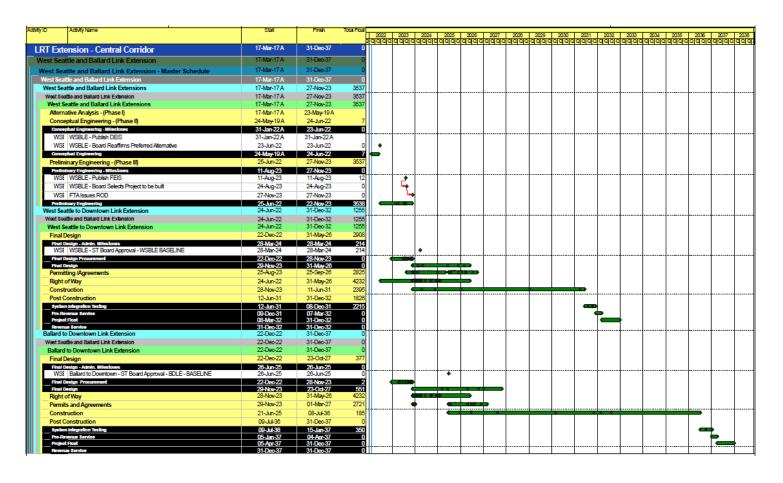
- Continued outreach to property owners, including eight group webinars for property owners and three individual property owner briefings.
- Participated in six briefings/events with communities along the project corridor to provide opportunities to learn more about light rail route and station location options being studied in the Draft EIS. The specific dates of each event were:
  - ♦ Community Advisory Group Meetings: Station Planning Focus
    - Interbay/Ballard segment, January 5, 2022
    - Downtown segment, January 6, 2022
    - WS/Duwamish segment, January 11, 2022
    - SODO/CID segment, January 13, 2022
  - ♦ KEXP, January 19, 2022
  - ♦ Historic South Downtown, SCIDpda, Interim CDA, January 21, 2022
- Continued effort to contact stakeholders throughout the project corridor to offer briefings regarding the project alternatives as well as information related to ongoing fieldwork activities.

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#### **Project Schedule**

The Board of Directors announced their realignment decision in August 2021 which includes target dates of 2032 for the West Seattle Extension and 2037 for the Ballard Extension. The schedule below has been updated to represent these dates. Our DEIS was published in January 2022 and Phase 3 Preliminary Engineering approval is expected in Q2 2022.



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#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE is an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

The planned FTE monthly average takes peaks and valleys in activity into account; whereas the YTD monthly average only reflects January actuals. Staffing variance reflects extension of DEIS schedule to accommodate internal and external agency capacity in response to COVID.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance				
ST Staff	41.1	37.4	3.7				
Consultants	58.0	26.9	31.1				
TOTAL	99.1	64.3	34.8				
* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.							

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period	

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# Progress Report Sounder Program



Sounder trains travel between Lakewood and Seattle with regular runs weekday morning and afternoons. Sounder also serves select major weekend events such as Mariners, Sounders, and Seahawk games.







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### Sounder Commuter Rail Program Overview



**Auburn Station Parking and Access Improvements:** Project includes alternatives identification, screening, environmental documentation, design and construction of station parking and access improvements at or around Auburn Station. The purpose of the project is to improve access to the existing Auburn Sounder station for Sounder riders, bicyclists, bus riders, and drivers.

**Kent Station Parking and Access Improvements:** Project includes alter natives identification, screening, environmental documentation, design and construction of station parking and access improvements at or around Kent Station. The purpose of the project is to improve access to the existing Kent Sounder station for Sounder riders, bicyclists, bus riders, and drivers.

**Lakewood Station Access Improvements:** Project will plan, design, and construct a parking facility and provide access improvements to the existing station for bicyclists, bus riders and drivers. This could mean investments in safer walking, rolling and bicycling connections with surrounding neighborhoods; better pick-up and drop-off areas; additional station lighting and weather shelters; parking options and more.

**Puyallup Station Access Improvements:** Project includes environmental documentation, design and construction of station access improvements at or around Puyallup Station. The purpose of this project is to accommodate and encourage future demand for Sounder ridership in an economically efficient and environmentally sustainable manner.

**Sounder South Capacity Expansion:** This project establishes a program of capital elements that will improve South Sounder access, capacity, and services in response to increase in demand. Program elements could include platform extensions, track and signal upgrades and other related infrastructure to facilitate additional capacity, and access improvements for pedestrians, bicyclists, buses, and private vehicles, prioritized per Sound Transit's System Access Policy. The elements included in this representative project will be refined during future phases of project development and are subject to change.

**South Tacoma Station Access Improvements:** Project will plan, design and construct a parking facility and provide access improvements to the existing station for bicyclists, bus riders, and drivers. This could mean investments in safer walking, rolling and bicycling connections between stations and surrounding neighborhoods; better pick-up and drop-off areas; additional station lighting and weather shelters; parking options and more.

**Sumner Station Access Improvements**: Project includes environmental documentation, design, and construction of station access improvements at or around Sumner Sounder Station. The purpose of this project is to accommodate and encourage future demand for Sounder ridership in an economically efficient and environmentally sustainable manner.

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### Sounder Commuter Rail Program Overview



#### **Program Budget**

The Authorized Project Allocation reflects the budget for each project through the approved project phase. As projects advance through design into construction the budget will be amended to reflect Board approved actions.

Table figures are shown in millions.

Project	Authorized Allocation	Commitment Incurred to Date		Estimated Final Cost	Authorized Allocation vs EFC
Auburn Station Access Improvement	\$14.9	\$6.9	\$4.8	\$14.9	\$0.0
Kent Station Access Improvements	\$16.8	\$10.9	\$9.0	\$16.8	\$0.0
Lakewood Station Access Improvement	\$5.9	\$1.5	\$1.2	\$5.9	\$0.0
Puyallup Station Access Improvements	\$79.1	\$71.9	\$64.0	\$79.1	\$0.0
Sounder South Capacity Expansion	\$21.1	\$5.3	\$4.3	\$21.1	\$0.0
South Tacoma Station Access Improvements	\$5.4	\$1.1	\$0.9	\$5.4	\$0.0
Sumner Station Access Improvements	\$17.8	\$16.2	\$13.1	\$17.8	\$0.0
Total	\$161.0	\$113.8	\$97.2	\$161.1	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Program Schedule**

Schedule for select major Sounder projects are summarized below. Projects from the realignment process are not shown. ST is currently updating schedules with ST Board of Director's R2021-05 Realignment Decision.

Project Name	Start	Finish		2020		2021				2022		22		
			Q	Q	Q	Q	Ø	Q	Q	Q	Q	Q	Q	Q
South Corridor	01-May-15	16-Apr-22												
Sounder Commuter Rail - South	01-May-15	16-Apr-22												
	01-May-15	16-Apr-22												
\$300017 - Puyallup Station Access Improvemer	<b>nts</b> 01-May-15.	16-Apr-22					]							

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#### **Project Summary**

**Scope** The purpose of the project is to improve

parking and access to the existing Auburn Sounder Station for Sounder riders, bicyclist, bus riders, and drivers.

Project includes alternatives identification, screening, environmental documentation, design, and construction of station parking and access improvements at or around

Auburn Station.

Phase Complete Environmental/Enter Design &

Construction

**Budget** \$14.9 Million

**Schedule** Target Date: 2025



Improving access to Sounder Auburn Station

#### **Key Project Activities**

- Re-appraisals for full property acquisition complete and real estate is developing the condemnation package. Continued
  appraisals for Temporary Construction Easements (TCEs).
- Continue coordination with the City of Auburn to establish their level of involvement in the design-build procurement.
- Developing draft baseline cost and schedule materials to support the Quantitative Risk Analysis workshop in February

#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

During the annual budget cycle \$2.3M was added to the project ROW phase costs. This period expenditures increased by \$124K. The incurred cost increased from \$4.65M to \$4.78M. The majority of this period's costs are attributed to staff costs, design-build project management activities, and right-of-way activities.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.4	\$1.8	\$1.8	\$2.4	\$0.0
Preliminary Engineering	\$2.9	\$2.7	\$2.6	\$2.9	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$2.0	\$2.0	\$0.2	\$2.0	\$0.0
3rd Party Agreements	\$0.4	\$0.0	\$0.0	\$0.4	\$0.0
Construction	\$0.4	\$0.0	\$0.0	\$0.4	\$0.0
ROW	\$6.9	\$0.4	\$0.2	\$6.9	\$0.0
Total	\$14.9	\$6.9	\$4.8	\$14.9	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Risk Management**

The following are the top project wide risks:

- Complexity of property acquisition resulting in a delay to the start of construction and cause a budget overrun.
- Differing soil and site conditions discovered after the design builder Notice to Proceed could cause project delay.
- Additional scope and project change requests from stakeholders could cause project delay during permit approval.

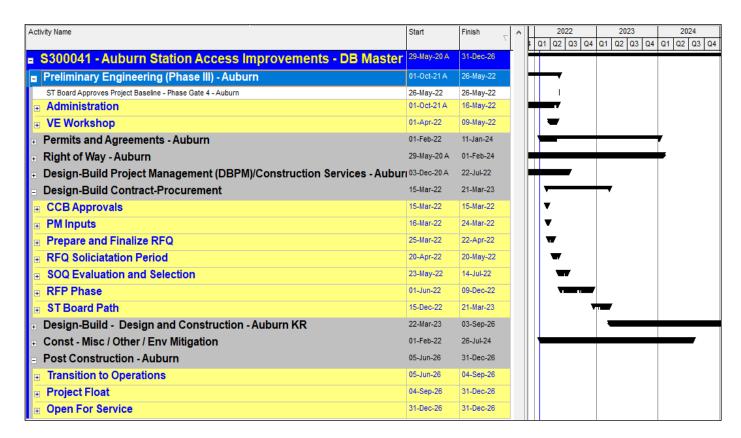
#### **Project Schedule**

Sound Transit is working on developing a combined Kent and Auburn schedule for Feb 2022 QRA session. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, is reflected in the schedule shown below. The schedule will be further modified to incorporate Feb 2022 QRA session outcomes.

The project team has engaged the current design-build project management (DBPM) team to help development of the Design-Build Project Requirements, issuance of the Design-Build Procurement Request for Qualifications and Baselining.

Baseline Approval is planned for Q2 2022 and Design Build NTP in Q1 2023. Other activities underway include initiating property appraisal and condemnation activities, completion expected Q1 2024. Phase III Approval of Project Baseline - Phase Gate 4 is planned for Q2 2022.

Project is forecasting 2026 target date for Open for Service. Date will be confirmed as part of Q2 2022 Board Baseline process.



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#### **Community Engagement**

• We are planning for a garage visual design workshop in Q1 2022 and an online open house in Q2.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

This month the project focused on packaging and evaluating cost saving strategies regarding the Kent, Auburn, and Sumner Station garages. The actual FTE monthly average will be ramping up to planned levels as work on the DB procurement documents are in full swing and leading up to baselining the project.

Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance	
5.5	2.5	3.0	
4.5	1.8	2.7	
10.0	4.3	5.7	
	Monthly Average 5.5 4.5	Monthly Average  5.5 2.5 4.5 1.8	

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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#### **Project Summary**

**Scope** The purpose of the project is to improve

parking and access to the existing Kent Sounder Station for Sounder riders, bicyclists, bus riders, and drivers.

Project includes alternatives identification, screening environmental documentation, design, and construction of station parking and access improvements at or around Kent Station.

Phase Complete Environmental/Enter Design &

Construction

**Budget** \$16.8 Million

Schedule Target Date: 2025



Improving access to Sounder Kent Station

#### **Key Project Activities**

- Continued negotiations with the City of Kent to execute a Development Agreement and coordination with King County Metro to determine the requirements for a bus layover to be incorporated into the project.
- Developing draft baseline cost and schedule materials to support the Quantitative Risk Analysis workshop in February
- Took possession of Washington Cold Storage property—primary full site acquisition for the proposed parking garage.





©Lydia Aldredge, 2002, "Cornucopia", Sound Transit, Kent Station plaza art

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#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period expenditure increased by \$101K. The incurred cost increased from \$8.9M to \$9.0M. The majority of this period's costs are attributed to staff costs, design-build project management activities, and right-of-way activities.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.7	\$2.0	\$2.0	\$2.7	\$0.0
Preliminary Engineering	\$3.4	\$2.7	\$2.7	\$3.4	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$2.0	\$1.9	\$0.2	\$2.0	\$0.0
3rd Party Agreements	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Construction	\$0.5	\$0.0	\$0.0	\$0.5	\$0.0
ROW	\$8.2	\$4.3	\$4.1	\$8.2	\$0.0
Total	\$16.8	\$10.9	\$9.0	\$16.8	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### Risk Management

The following are the top project wide risks:

- Risk of Project delay if the City of Kent Development Agreement is not executed before the issuance of Request for Qualifications for the Design Build Contractor.
- Project changes that occur during procurement that require additional environmental review could delay project.
- New building codes cause a delay in permitting and delay the project (seismic requirements)

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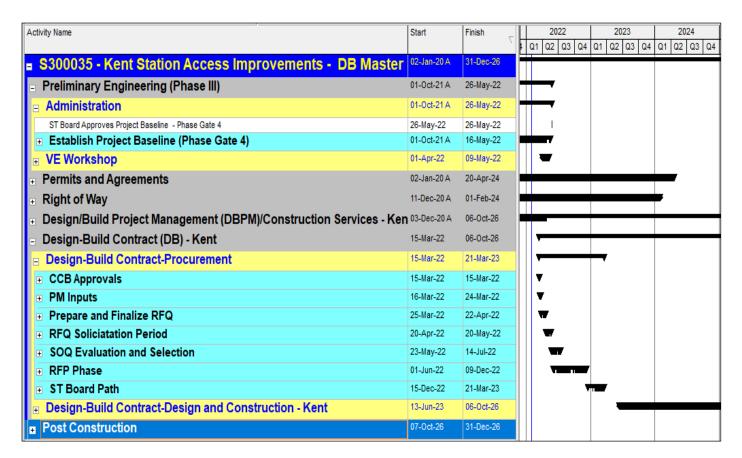
#### **Project Schedule**

Sound Transit was working on developing combined Kent and Auburn schedule for Feb 2022 QRA session. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, is reflected in the schedule shown below. The Schedule will be further modified to incorporate Feb 2022 QRA session outcomes.

The project team has engaged the current design-build project management (DBPM) team to help develop Design-Build Project Requirements, issuance of the Design-Build Procurement Request for Qualifications and Baselining.

Other activities underway include initiating property appraisal and condemnation activities, negotiating the development agreement with the City of Kent. As well as negotiating the King County Metro agreement and contribution for bus layover accommodation expected in Q2 2022. Phase III Board Approval of Baseline is planned for Q2 2022. DB NTB is expected Q1 2023

Project is forecasting 2026 target date for Open for Service. Date will be confirmed as part of Q2 2022 Board Baseline process.



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#### **Community Engagement**

We are planning community engagement around garage visual design for spring of 2022.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

This month the project focused on the review of the Development Agreement with the City of Kent. Work advanced on the review of the Development Agreement with the City of Kent. Staff also worked on evaluating cost saving strategies regarding the Kent, Auburn, and Sumner Station garages. The actual FTE monthly average will be ramping up to planned levels as work on the DB procurement documents are in full swing and leading up to baselining the project.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.9	3.6	2.3
Consultants	4.5	1.8	2.7
TOTAL	10.4	5.4	5.0

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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#### **Project Summary**

**Scope** This project will plan and design access

improvements to the existing station. This could mean investments in safer walking, rolling and bicycling connections between stations and surrounding neighborhoods; better pick-up and drop-off areas; additional station lighting and weather shelters; parking options and more.

During Phase 1 the project will conduct an alternatives evaluation and screening process in order to help identify the Preferred Alternative package of access

improvements.

Phase Planning Phase 1—Alternatives Analysis

**Budget** \$5.86 Million

**Schedule** Target Date: 2030



Lakewood Station in Pierce County.

#### **Key Project Activities**

- Finalized a final report for Phase 1—Alternatives Analysis
- Finalized a list of recommended potential improvements and possible alternates to be evaluated in conceptual engineering and environmental review phase
- Finalized a scope of work to conduct Phase 2—Conceptual Engineering and Environmental



Lakewood Station Garage



Lakewood Station Passenger Platform Access

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#### **Project Cost Summary**

The project cost is summarized below. The table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS).

During the annual budget cycle \$3.9M was added to the project for the CE/ENV phase that will begin this year. This period expenditures increased by \$23K with the majority of the amount coming from staff costs and alternative analysis.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.2	\$0.4	\$0.4	\$2.2	\$0.0
Preliminary Engineering	\$3.0	\$0.7	\$0.5	\$3.0	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.4	\$0.3	\$0.3	\$0.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.2	\$0.0	\$0.0	\$0.2	\$0.0
Total	\$5.9	\$1.4	\$1.2	\$5.9	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Risk Management**

The following are the top project wide risks:

- Third party, stakeholders or internal ST scope changes could lead to increased costs and delays to the schedule.
- There may be too many recommendations that exceed the financial plan budget and schedule.

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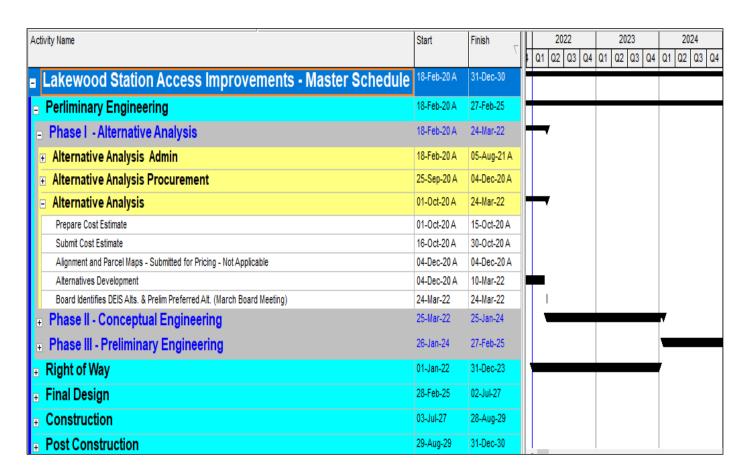


#### **Project Schedule**

Sound Transit continues to make schedule adjustments. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, reflected in the schedule shown below.

Phase 1 - Alternative Development NTP was issued in December 2020. The consultant has completed Task 4 - Alternative Refinement and Identification of Preferred Alternatives, Task 3 - Public Involvement and Task 5 - Alternative Refinement & Identification of Preferred Alternatives. Expected completion of Alternative Development is end of Q1 2022.

Board Identification of Preliminary Preferred Alternatives is expected in March 2022.



#### **Community Engagement**

• We are preparing to share the Alternatives Analysis Final Report on the project website and listserv.

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#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Currently the project is trending under the planned staffing needs as the project initiation and initial identification of improvements took less effort than planned. Staffing is anticipated to grow to planned levels the evaluation of the improvements gets underway.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	2.7	1.3	1.4
Consultants	3.0	0.6	2.4
TOTAL	5.7	1.9	3.8
	0.1	0	0.0

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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#### **Project Summary**

**Scope** The project is to improve access to the

existing Puyallup Sounder station for Sounder riders, bicyclists, bus riders, and

drivers.

The project includes an new 500-space parking garage, new surface parking with approximately 165 spaces, and includes a

pedestrian bridge over 5th Street

Northwest.

Phase Final Design and Construction

**Budget** \$79.1 Million

**Schedule** Open for Service: Q4 2022



Improving access to Sounder Puyallup Station

#### **Key Project Activities**

- Update of project schedule is underway following City approval of design package.
- Installation of garage and abutment elevator equipment.
- Landscape irrigation and top soil being placed.
- Continuing with painting of the garage interiors.
- Continued curtain wall and tension mesh installation.
- Site sidewalks surrounding the garage and parking are under construction.
- Planning for Phase Gate 5 Enter Operations action continue in March.
- Conducted a quantitative risk analysis (QRA) workshop for project completion—finalizing the results.

#### **Closely Monitored Issues**

- Coordination of work with BNSF and the City of Puyallup to execute off site intersection and signal improvements.
- Replacement of intersection signal cabinet and signal cabinet programming and delivery timelines.
- Aligning internal ST resources to successfully complete close out process and turn over to Operations / Facilities.
- Project continues to track, monitor and work to mitigate increasing cost and schedule pressures.
- Supply chain variables are in constant flux. Frequent schedule monitoring of key products required to complete the work.

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#### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The second table summarizes costs in accordance with the FTA's Standard Cost Categories (SCC) format. The figures in both tables are shown in millions.

This period expenditures increased by \$2.6M. The incurred cost increased from \$61.3M to \$64.0M. The majority of this period's costs are attributed to staff costs, construction management services, right-of-way activities, and \$1.6M for the Design-Build construction contract.

#### **Cost Summary by Phase**

Project Phase	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$4.6	\$4.7	\$4.2	\$4.1	\$4.7	\$0.0
Preliminary Engineering	\$2.9	\$2.7	\$2.6	\$2.6	\$2.7	\$0.0
Final Design	\$0.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$5.2	\$5.1	\$4.6	\$4.1	\$5.1	\$0.0
3rd Party Agreements	\$2.2	\$0.1	\$0.1	\$0.0	\$0.1	\$0.0
Construction	\$58.4	\$59.9	\$54.0	\$46.6	\$59.9	\$0.0
ROW	\$5.6	\$6.6	\$6.5	\$6.4	\$6.6	\$0.0
Total	\$79.1	\$79.1	\$71.9	\$64.0	\$79.1	\$0.0

#### **Cost Summary by SCC**

SCC Element	Baseline Budget	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
10 Guideway & Track	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
20 Stations	\$47.1	\$31.2	\$29.4	\$28.0	\$31.2	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$1.0	\$10.1	\$8.7	\$6.7	\$10.1	\$0.0
50 Systems	\$0.0	\$4.3	\$2.4	\$1.8	\$4.3	\$0.0
Construction Subtotal (10 - 50)	\$48.0	\$45.6	\$40.5	\$36.5	\$45.6	\$0.0
60 Row, Land	\$5.4	\$6.6	\$6.5	\$6.4	\$6.6	\$0.0
80 Professional Services	\$22.0	\$26.1	\$25.0	\$21.0	\$26.1	\$0.0
90 Unallocated Contingency	\$3.7	\$0.8	\$0.0	\$0.0	\$0.8	\$0.0
Total (10 - 90)	\$79.1	\$79.1	\$71.9	\$64.0	\$79.1	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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#### **Contingency Management**

The Puyallup project budget was baselined in February 2019 with a total contingency of \$14.6 M.

**Design Allowance (DA)** was established to account for unquantified scope at the time of the cost estimate. DA was fully drawn down and no longer reported.

**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period the AC was reduced by \$324K due two executed change orders for the S300017 contract.

**Unallocated Contingency** (UAC) is used to address general project-wide cost risks and uncertainties. During this period the UAC was reduced by \$283K due to budget shifts for 2022 adopted budget.

#### Contingency Status (Monthly)

y							
	Base	eline	Currrent Status				
Туре	Amount	% of Total	Remaining	% of Work			
		Budget	Amount	Remaining			
Design Allowance	\$4.6	5.8%	\$0.0	0.0%			
Allocated Contingency	\$6.3	8.0%	\$4.2	27.7%			
Unallocated Contingency	\$3.7	4.7%	\$0.8	5.0%			
Total:	\$14.6	18.4%	\$5.0	32.8%			

#### Contingency by Type

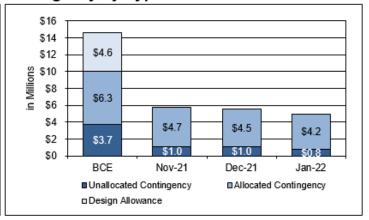


Table figures are shown in millions.

#### **Risk Management**

The following are the top project wide risks:

- Additional unknown schedule impacts after ordering of long lead items required for the completion of off site intersection work (signal heads & control cabinets) was delayed by extended permit approval process.
- Coordination of the BNSF, Design Builder and City of Puyallup to execute off-site improvements (Intersection and Signal upgrades) in a timely manner.
- Transition to Operations may be impacted by terms being negotiated over use of parking during off-hours with City. GCR
  and project team are working toward establishing terms for parking during off hours between parties before Transition to
  Operations/Garage Opening.

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#### **Project Schedule**

This month the weighted percent complete is 88.74%. Notice to Proceed was issued to the contractor in the first quarter of 2020 to commence design and the contractor mobilized on site Q3 2020. The schedule update for this period is under review. The contractor is currently dealing with design delays due to changes to proposed traffic mitigation and is looking at possible mitigation for these impacts. Parking Garage completion is currently projected for May of 2022 which is approx. 4 months behind but open for service may be constrained by the traffic mitigation design delays that are pushing project completion into O4 2022.

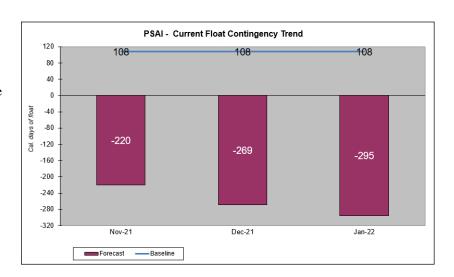


#### **Project Float**

The Puyallup station access improvements was baselined with 108 days of project float.

Currently, the project is currently calculated to miss the February 10, 2022 open for service date by 295 calendar days due to delays to traffic mitigation design and is reporting a Q4 2022 completion.

ST and the contractor are working diligently to reduce these impacts to the project. The parking garage and surface parking on-site construction is also falling behind this period and into the Q2 2022. The schedule update is currently under review.

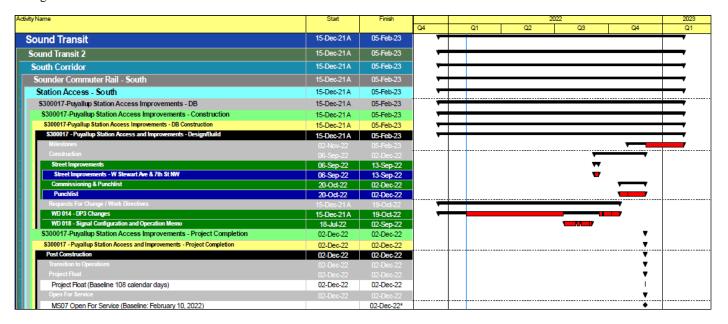


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#### **Critical Path Analysis**

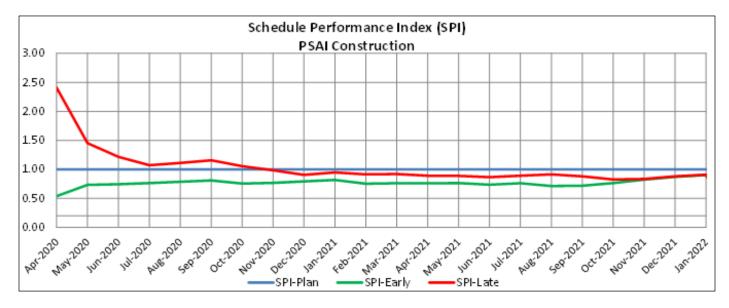
The critical path for the Puyallup is currently driven by the design delays to off site traffic mitigations. However, the work at the parking garage is forecasting completion in May of 2022. Delays due to supply chain issues are causing current impacts to the garage construction. We will continue to monitor the schedule and coordination with our Third Party partners on traffic mitigation.



#### Schedule Performance Index

The early Schedule Performance Index (SPI) for the project is at 0.90 for this period, and the late SPI is at 0.91. An index under 1.0 indicates that the Contractor is behind.

The schedule continues to show some time impacts due to design and installation delays of off site traffic mitigations. The Contractor is working diligently to reduce these impacts to the project and identify as many opportunities as possible to try to recapture float on future work.



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#### **Community Engagement**

• Monitored construction activities for impacts to community and issued one construction alert.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year. The limited ST Subject Mater Expert (SME) availability due to the current non-project support focus of the PSO is being supplemented by consultant resources.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	8.0	5.8	2.2
Consultants	5.0	6.4	(1.4)
TOTAL	13.0	12.2	0.8

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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### Sounder Commute Rail Puyallup Station Access Improvements



#### **Construction Safety**

Data/Measure	January 2022	Year to Date	Project to Date		
Recordable Injury/Illness Cases	0	0	2		
Days Away From Work Cases	0	0	1		
Total Days Away From Work	0	0	32		
First Aid Cases	0	0	4		
Reported Near Mishaps	0	0	5		
Average Number of Employees on Worksite	33	-	-		
Total # of Hours (GC & Subs)	5,270	5,270	84,209		
OSHA Incident Rates	January 2022	Year to Date	Project to Date		
Recordable Injury Rate	0.00	0.00	4.75		
LTI Rate	0.00	0.00	2.38		
Recordable National Average		2.50			
LTI National Average	1.10				
Recordable WA State Average	5.20				
LTI WA State Average	2.90				

**Note:** Due to the timing of contractor's reporting periods, the current month's numbers above are a combination of actuals and estimates. All previous months' numbers are reconciled and replaced with actuals.

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#### **Program Summary**

#### Scope

This project will establish a program of capital elements that will be used to enhance South Sounder capacity, services and access in response to increased demand.

Program elements could include platform extensions, track and signal upgrades and other related infrastructure to facilitate additional capacity, and access elements such as improvements for pedestrians, bicyclists, buses, and private vehicles, prioritized per Sound Transit's System Access Policy.

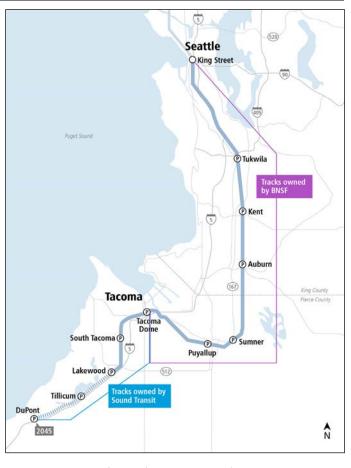
The Sounder Strategic Development and Implementation Plan is complete and includes a program of proposed capital projects.

Phase Planning

**Budget** \$21.09 Million

**Schedule** Target Dates: 2036-2046, varies by

Program Element



Sounder South Capacity map alignment

#### **Program Key Activities**

Program level activities are highlighted below. Project specific elements are detailed in their own sections on the following pages.

#### **Sounder South Project Development Key Activities**

The following Sounder South Capacity Expansion (SSCE) Program planning projects approved by the Sound Transit Board to move forward into Planning Phase 1 Alternative Analysis phase.

- King Street Station Platform Improvements
- BNSF Platform Extension at Auburn Station
- These priority projects are summarized next followed by the common program reporting elements.

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#### King Street Station Platform Improvements

This project focuses on extending platforms and improving access and pedestrian flow at King Street Station to accommodate 10-car trains. Project elements may include improvements for vertical circulation of passengers to and from the platform, expanded pick up/drop-off areas, improvements to crossing 4th Ave South, and other improvements that would improve passenger experience at the station platform.

#### **Key Activities**

- Continue Level 1 evaluation of potential improvements to access and pedestrian flow.
- Working closely with the West Seattle Ballard Link Extension (WSBLE) team on the conceptual design phase of the Chinatown/International District Station which is in close vicinity of the King Street Station. Key members of the WSBLE team are invited to participate in the bi-weekly KSS project team meetings.

#### **Community Engagement**

• We are preparing for an online open house in spring, to share draft ideas with the public and riders.

#### **BNSF Platform Extension**

This project focuses on extending platforms at Sounder South stations on the BNSF right of way (Tukwila, Kent, Auburn, Sumner, Puyallup) to accommodate 10-car trains, up from the existing 7-car trains. Project elements may include and other related infrastructure to facilitate additional capacity, and access elements such as improvements for pedestrians, bicyclists, buses, and private vehicles, prioritized per Sound Transit's System Access Policy.

While most stations have a logical path to extend platforms, Auburn Station is physically constrained with Main Street and a BNSF track connection to Stampede Pass restricting options to extend platforms, requiring additional alternatives evaluation to determine future improvements in the platform area.

#### **Key Activities**

 Revised draft alternatives analysis report to reflect comments received by BNSF and the City of Auburn about options to extend platforms at Auburn Station to accommodate 10-car trains.

#### **Community Engagement**

No community outreach activities to report this month.

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#### **Program Reporting Elements**

While in the Planning phase, priority projects are being managed under a shared budget, schedule and staffing plan.

#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

During the annual budget cycle \$3.7M was added to the project for the CE/ENV phases that will begin this year. This period expenditures increased by \$65K with the majority of the amount coming from staff costs, alternative analysis and third party coordination.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$4.8	\$1.8	\$1.9	\$4.8	\$0.0
Preliminary Engineering	\$13.6	\$3.0	\$2.0	\$13.6	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Third Party Agreements	\$.9	\$0.5	\$0.4	\$.9	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$1.7	\$0.0	\$0.0	\$1.7	\$0.0
Total	\$21.1	\$5.3	\$4.3	\$21.1	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

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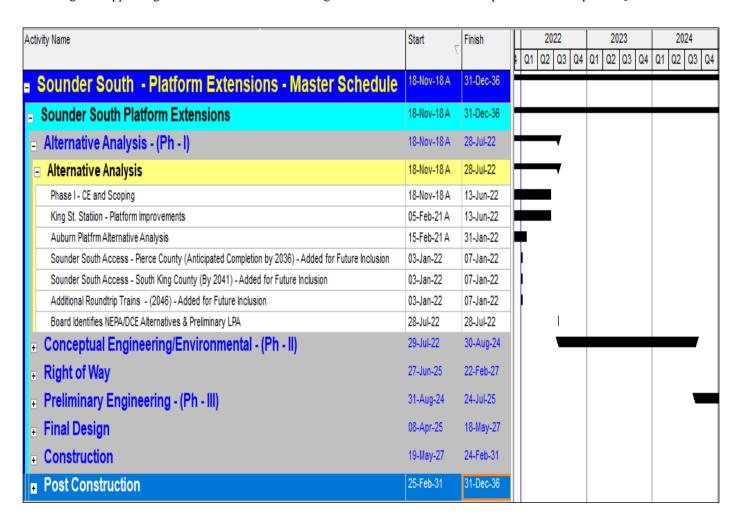


#### **Project Schedule**

Sound Transit continues to make schedule adjustments. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, reflected in the schedule shown below.

The second Mainline Track Study and Report was finalized and completed on July 28, 2021. The team is currently working on Task 3 - Public Involvement, Task 4 - Alternative Development & Screening and on Task 5 - Alternative Refinement.

Selecting and Approving Preferred Alternatives for King St. Station and Auburn are expected to be completed Q3 2022.



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#### **Risk Management**

The following are the top project wide risks:

- Potential for increased scope of work to accommodate additional accessibility or safety features not originally included in the project template.
- Cost increases associated with right-of-way and potential mitigations resulting from negotiations with local jurisdictions and BNSF.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

The staffing variance is attributed to the majority of the SCCE Program's activities being on pause during the capital program realignment process.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.4	4.4	1.0
Consultants	8.2	0.7	7.5
TOTAL	13.6	5.1	8.5

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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### **Sounder Commuter Rail South Tacoma Access Improvements**



#### **Project Summary**

Scope

This project will plan, design and construct a parking facility and provide access improvements to the existing station. This could mean investments in safer walking, rolling and bicycling connections between stations and surrounding neighborhoods; better pick-up and drop-off areas; additional station lighting, weather shelters; parking options and more.

During Phase 1 the project will conduct an alternatives evaluation and screening process in order to help identify the Preferred Alternative package of access improvements.

Phase Planning Phase 1—Alternatives Analysis

**Budget** \$5.4 Million

**Schedule** Target Date: 2030



South Tacoma Station in Pierce County

#### **Key Project Activities**

- Finalized a final report for Phase 1—Alternatives Analysis
- Finalized a list of recommended potential improvements and possible alternates to be evaluated in the conceptual engineering and environmental review phase
- Finalized a scope of work to conduct Phase 2—Conceptual Engineering and Environmental



South Tacoma Station



South Tacoma Station Passenger Platform Access

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#### Sounder Commuter Rail South Tacoma Access Improvement



#### **Project Cost Summary**

The project cost is summarized below in two cost categories. The first table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS).

During the annual budget cycle \$3.9M was added to the project for the CE/ENV phases that will begin this year. This period expenditures increased by \$23K with the majority of the amount coming from staff costs, and alternative analysis.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$1.8	\$0.4	\$0.4	\$1.8	\$0.0
Preliminary Engineering	\$3.3	\$0.7	\$0.5	\$3.3	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.3	\$0.0	\$0.0	\$0.3	\$0.0
Total	\$5.4	\$1.1	\$0.9	\$5.4	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Risk Management**

The following are the top project wide risks:

- Third party, stakeholders or internal ST scope changes could lead to increased costs and delays to the schedule
- There may be too many recommendations that exceed the financial plan budget and schedule

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### Sounder Commuter Rail South Tacoma Access Improvement

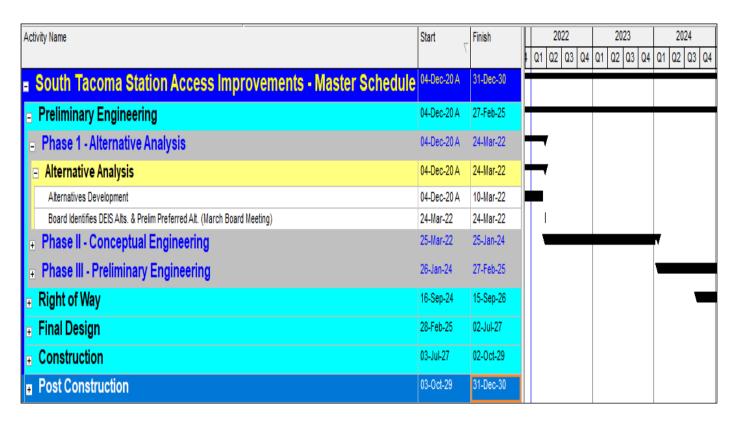


#### **Project Schedule**

Sound Transit continues to make schedule adjustments. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, reflected in the schedule shown below.

Phase 1 - Alternative Development NTP was issued in December 2020. The consultant has completed Task 4 - Alternative Refinement and Identification of Preferred Alternatives, Task 3 - Public Involvement and Task 5 - Alternative Refinement & Identification of Preferred Alternatives. Expected completion of Alternative Development is end of Q1 2022.

Board identification of Preliminary Preferred Alternatives is expected in March 2022.



#### **Community Engagement**

We are preparing to share the Alternatives Analysis final report on the project website and listserv.

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#### Sounder Commuter Rail South Tacoma Access Improvement



#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

Currently the project is trending under the planned staffing needs for the project as the project initiation and initial identification of improvements took less effort than planned. As the project gets underway and the evaluation of the improvements begins, we anticipate more staff will be needed.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	3.4	1.2	2.2
Consultants	3.0	0.6	2.4
TOTAL	6.4	1.8	4.6

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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### **Sounder Commuter Rail Sumner Station Access Improvements**



#### **Project Summary**

**Scope** The purpose of the project is to provide

increased access to parking by adding 505 net new spaces and new bus loop.

Project includes alternative identification, screening, environmental documentation, design and construction of station access improvement at or around Sumner Station.

Phase Complete Environmental/Enter Design &

Construction

**Budget** \$17.8 Million

**Schedule** Target Date: 2025



Improving access to Sounder Sumner Station

#### **Key Project Activities**

- Updating design-build project requirements and contract documents for the upcoming design-build Request for Proposals in February.
- Conducting property appraisals for Temporary Construction Easements.
- Actively meeting with City staff to inform project requirements and participate in the design build procurement.





©Ellen Sollod, 2003, "Hops Trellis", Sound Transit, Sumner Sounder Station, platform

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#### Sounder Commuter Rail Sumner Station Access Improvements



#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures shown are in millions.

This period's expenditures increased by \$31K. The majority of this period's costs are attributed to staff costs working on finalizing the project requirements for the upcoming design build procurement.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.7	\$2.0	\$2.0	\$2.7	\$0.0
Preliminary Engineering	\$2.7	\$2.6	\$2.6	\$2.7	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
3rd Party Agreements	\$7.6	\$7.6	\$4.6	\$7.6	\$0.0
Construction	\$0.2	\$0.1	\$0.1	\$0.2	\$0.0
ROW	\$4.6	\$4.0	\$3.9	\$4.6	\$0.0
Total	\$17.8	\$16.2	\$13.1	\$17.8	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Risk Management**

The following are the top project wide risks:

- Risk of project delay due to Area of Potential Effect requiring updating before the start of construction.
- Risk of delay to project if Inadvertent Discovery Plan is not complete by beginning of construction.
- Schedule impacts if Third Party Agreements not finalized before contract award.

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#### Sounder Commuter Rail Sumner Station Access Improvements



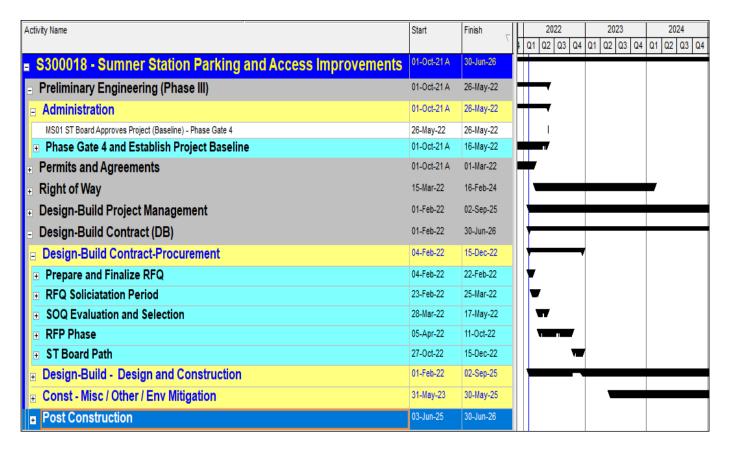
#### **Project Schedule**

Team presented modified schedule that will be used for Feb 2022 QRA session. Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, is reflected in the schedule shown below. The Schedule will be further modified to incorporate Feb 2022 QRA session outcomes.

Project procurement documents are complete. Issuance of the Design-Build Request for Qualifications is anticipated in Q1 2022. Final agreements for parking construction are also expected Q1 2022.

The project is in the Preliminary Engineering Phase III. Design-build procurement and baseline the project activities will start Feb. 2022. Right-of-Way acquisitions are in progress and are forecast to be completed in advance of the area needed for the design-build contractor's construction activities. Upcoming milestones include Gate 4 Establish Baseline expected Q2 2022 and Notice to Proceed Expected Q4 2022.

Project is forecasting 2026 target date for Open for Service. Date will be confirmed as part of Q2 2022 Board Baseline process.



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### **Sounder Commuter Rail Sumner Station Access Improvements**



#### **Community Engagement**

We are monitoring outreach needs for the project and are available to answer any questions.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

The project team has updated the Planned FTE Monthly Average estimate for the year.

This month the project was focused on updating the design-build project requirements and contract documents. The actual FTE monthly average will be ramping up to planned levels as work continues to baselining the project.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	5.9	1.9	4.0
Consultants	0.0	0.0	0.0
TOTAL	5.9	1.9	4.0

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

<b>Board Action</b>	Description	Date
	None to report this period.	

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# Progress Report Regional Express & STRIDE Programs







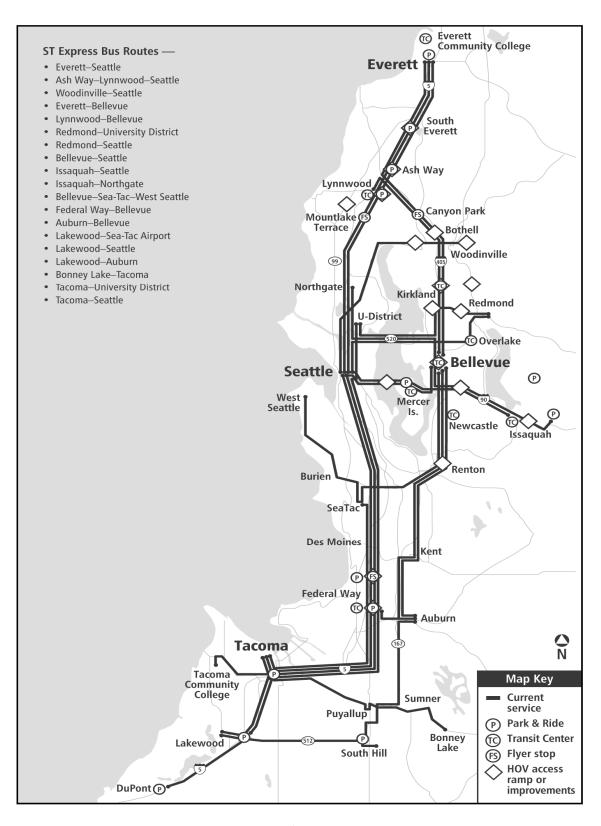


ST Express Bus routes connects major regional hubs throughout the three counties (King, Pierce, and Snohomish)

January | 2022







ST Regional Express Bus Routes

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### Regional Express & STRIDE Program Overview



**Bus Base North**: This project establishes the operations and maintenance facility necessary to support to support BRT operations. The Bus Base North will accommodate up to 120 buses to serve I-405 and SR 522/145th BRT and some ST Express routes.

**I-405 Bus Rapid Transit:** This project establishes Bus Rapid Transit (BRT) from the Lynnwood Transit Center to Bellevue Transit Center and Burien Transit Center via I-405 and SR 518. The project relies on the I-405 express toll lane system where available, and Business Access Transit (BAT) lanes on SR 518 from Tukwila to Burien. Project elements include parking, station access improvements, and 11pairs of stations, including a new transit center in South Renton and new stations at Northeast 85th Street with connection to Downtown Kirkland and at Northeast 44th Street in Renton.

**SR522 Bus Rapid Transit:** This project establishes BRT from the Link station at I-5 and Northeast 145th Street to UW Bothell, with service continuing at lower frequencies to Woodinville. On Northeast 145th Street, this project includes transit priority spot treatments to facilitate BRT movement through corridor bottlenecks. On SR 522 the majority of the corridor through Lake Forest Park, Kenmore and Bothell will feature BAT lanes, with transit-supportive enhancements on arterials from downtown Bothell to UW Bothell. This project includes nine pairs of stations, with additional parking at Lake Forest Park, Kenmore and Bothell and an expanded transit center at UW Bothell.

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### Regional Express & STRIDE Program Overview



#### **Program Budget**

The Authorized Project Allocation reflects the budget for each project through the approved project phase. As projects advance through design into construction the budget will be amended to reflect Board approved actions.

Table figures are shown in millions.

Project	Authorized Allocation	Commitment To Date	Incurred to Date	Estimated Final Cost	Authorized Allocation vs EFC
Bus Base North	\$64.0	\$41.5	\$39.1	\$64.0	\$0.0
I-405 Bus Rapid Transit	\$703.9	\$202.1	\$97.2	\$703.9	\$0.0
SR 522/NE 145th St Bus Rapid Transit	\$209.1	\$70.8	\$50.0	\$209.1	\$0.0
Total	\$977.1	\$314.4	\$186.3	\$977.1	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Program Schedule**

All projects within the Regional Express and STRIDE programs were part of the realignment process. Projects in the realignment process are not shown. A graphic of the revised timelines will be displayed in a future update.

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#### **Project Summary**

**Scope** The Bus Base North will accommodate up

to 120 buses to serve I-405 and SR 522/145th BRT and some ST Express

routes.

Phase Conceptual and Preliminary Engineering

**Budget** \$64.0 Million for Preliminary Engineering,

Final Design, Property Acquisition and

Third Party Coordination.

**Schedule** Target Date: 2025



Map of Project Alignment

#### **Key Project Activities**

- Continued addressing Codes, Covenants and Restriction (CCRs) of the site that has been selected for the bus base at Canyon Park Business Center.
- Held the Concept Design Charrette sessions continued working with the General Engineering Consultant (GEC) to bring the conceptual design toward 15%.
- Began soliciting inputs from internal business stakeholders on the requirements for the Computer Aided Dispatch, and Automated Vehicles Location (CAD/AVL) systems to be included into the Request for Proposals (RFP's).
- Continued working with the GEC on addressing the BRT Program master integrated schedule.

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#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period Authorized Allocation has been increased by \$15.3Million to support Program Management with the GEC and Final Design progress.

This period the project cost incurred increased by around \$414K. This is primarily due to progress in Final Design with the GEC for \$360K and to Sound Transit staff time for \$35K.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$7.1	\$2.2	\$2.1	\$7.1	\$0.0
Preliminary Engineering	\$2.0	\$1.7	\$1.4	\$2.0	\$0.0
Final Design	\$12.3	\$2.3	\$0.5	\$12.3	\$0.0
Construction Services	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
3rd Party Agreements	\$0.2	\$0.1	\$0.1	\$0.2	\$0.0
Construction	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Right-of-Way (ROW)	\$42.3	\$35.2	\$35.0	\$42.3	\$0.0
Total	\$64.0	\$41.5	\$39.1	\$64.0	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Risk Management**

The following are the top project wide risks:

- Soil conditions could require additional special foundations. Risk Mitigation: additional review of soil testing and borings, additional construction funds to address soil concerns are recommended to be budgeted.
- Addressing the Business Park Codes, Covenants and Restrictions (CC&R): performing additional noise and vibration analysis.
- The project delivery method is being readdressed to better address risks related to permitting and CC&R.

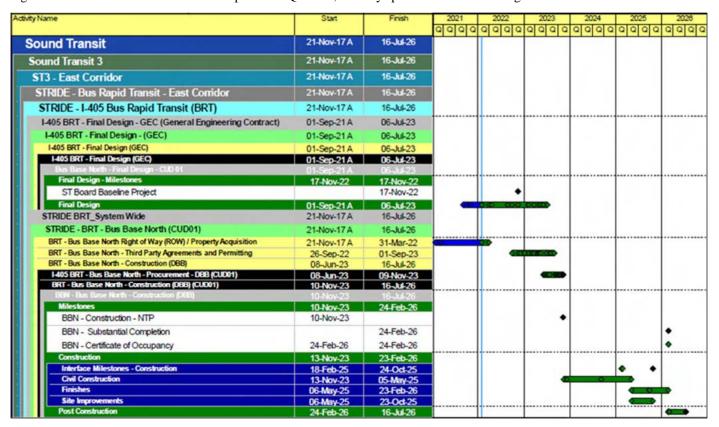
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#### **Project Schedule**

The Board of Directors announced their realignment decision in August 2021. ST is working with the GEC consultant to address the project schedule to align with the decision. The GEC also commence conceptual design of the base in October 2021.

The current critical path for Bus Base North is Final Design by the GEC, then construction procurement, civil construction and finishes then systems and testing. Activities that need to be monitored closely are acquiring rights to deviate from restrictive covenants that prohibit Sound Transit's proposed use for the property, developing project requirements, and permitting/agreements. The current forecast for completion is Q3 2026, 197 days past the ST Board realignment milestone.



#### **Community Engagement**

We are committed to proactively seeking public input during all stages of the project. The I-405 BRT Community Engagement and Communication Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. We will collaborate with elected officials, partner staff and adjacent property owners during the project. Sound Transit is working closely with the City of Bothell on the Bus Base North project.

- We are monitoring outreach needs for the project and are available to answer any questions.
- Planning began for neighbor outreach for construction.

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#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is an annual projection. The variance will reduce once final design accelerates.

The YTD Actual FTE Monthly Average is lower than Planned currently. However, both ST Staff and Consultants staff level will ramp up as the project progresses toward 30% and 60% design in 2022 to be at or close to the Planned FTE Monthly Average.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	6.9	3.5	3.4
Consultants	18.0	8.4	9.6
TOTAL	24.9	11.9	13.0

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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#### **Project Summary**

**Scope** Launch a Bus Rapid Transit (BRT) system

along the I-405 corridor.

Limits Approximately 37 miles between

Lynnwood and Burien

Alignment I-405 BRT will extend along the I-5, I-405

and SR 518 corridors. BRT will serve Lynnwood, Bothell, Kirkland, Bellevue, Renton, SeaTac, Tukwila, and Burien. Buses will operate in high occupancy vehicle lanes, express toll lanes, bus only

lanes and general purpose lanes.

Stations Lynnwood City Center, Canyon Park, SR

522/I-405 Transit Hub , Brickyard, Totem Lake/Kingsgate, NE 85th, Bellevue Transit Center, NE 44th, South Renton Transit Center, Tukwila International Blvd Station,

**Burien Transit Center** 

Phase Final Design

**Budget** \$703.9 Million for Preliminary

Engineering (Phases 1-3), GEC Contract in Final Design, Construction Improvement at the 522/405 Canyon Park interchange.

**Schedule** Target Date: 2026 for Service Line 1 (S1);

2027 for Service Line 2 (S2); not including

parking elements



#### **Key Project Activities**

- Sound Transit Board approved Motion M2022-05 Construction Agreement with WSDOT for the Design-Build Delivery of the I-405/NE 85th Street In-line Freeway Station for the I-405 BRT Project.
- Worked with Sound Transit Legal to finalize the design-build delivery construction agreement with WSDOT for the I-405/ NE 85th Street Held meetings with WSDOT.
- Reviewed WSDOT's draft construction agreements at Brickyard, SR 522/I-405 Transit Hub, and Canyon Park In-line Stations.
- Prepared to request approval from Sound Transit Board for funding of an agreement with City of Kirkland for the BRTrelated construction of NE 85th arterial.
- Completed demolition work at the Sound Ford site in Renton.

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#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period Authorized Project Allocation has been increased by \$436 Million to support program management, final design and construction at NE 85th, North ETL and Brickyard.

This period expenditures are \$1.7M, of which \$0.2M for staff time, \$1M for project refinement activities, preliminary engineering and environmental activities in the preliminary engineering phase, \$0.4M in the final design phase with the GEC, \$145K in construction, \$23K in ROW activities and \$15K in third party agreement phase.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$18.6	\$10.3	\$10.2	\$18.6	\$0.0
Preliminary Engineering	\$49.2	\$40.2	\$32.9	\$49.2	\$0.0
Final Design	\$17.4	\$3.1	\$1.1	\$17.4	\$0.0
Construction Services	\$1.7	\$0.4	\$0.0	\$1.7	\$0.0
Third Party Agreements	\$1.7	\$0.9	\$0.7	\$1.7	\$0.0
Construction	\$578.5	\$119.0	\$24.9	\$578.5	\$0.0
Right-of-Way (ROW)	\$36.8	\$28.2	\$27.3	\$36.8	\$0.0
Total	\$703.9	\$202.1	\$97.2	\$703.9	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### Risk Management

The following are top project risks and proposed mitigations:

- Completion of WSDOT's I-405 Renton to Bellevue Widening and Express Toll Lanes (ETL) Project. *Risk Mitigation:* Sound Transit participated in WSDOT's Design-Build process for the I-405 Renton to Bellevue Project as a proposal evaluation member and integrated BRT milestones into the WSDOT schedule. Sound Transit staff is participating in design and constructability reviews for BRT related facilities included in WSDOT's projects.
- Coordination with WSDOT North-end I-405 Express Toll Lane schedule. Sound Transit and WSDOT staff coordination is
  ongoing to minimize or eliminate schedule gaps or slowdowns.
- The Tukwila International Boulevard station is on the critical path for a 2026 opening of S1 (Burien to Bellevue). ST and WSDOT staff are developing a Project Development Task Order.

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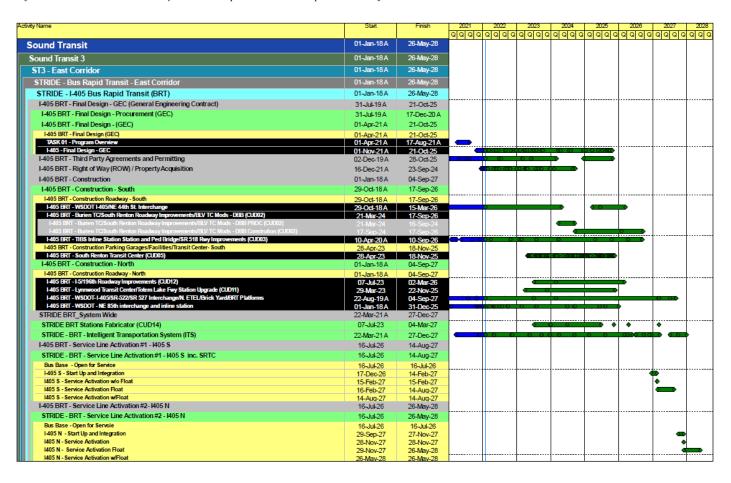
#### **Project Schedule**

The Board of Directors announced their realignment decision in August 2021. ST is working with the GEC consultant to address the project schedule to align with the decision.

The current critical path for the I-405 BRT project is through Final Design by our General Engineering Contract (GEC) Construction Procurement, Civil Construction, commissioning and testing, project float contingency to service line activation. There are other near critical efforts which include ROW acquisition for CUD 02, Task Order for WSDOT on TIBS and SR518 improvements, permitting and agreements with local jurisdictions.\*

I-405 S, Service Line #1 is currently forecasting 232 days beyond proposed ST Board Realignment dates. I-405 N, Service Line #2 is currently forecasting 147 days beyond proposed ST Board Realignment dates.

\*There are construction projects being managed by WSDOT, with elements specific to Sound Transit, such as the I-405 Renton to Bellevue Widening and Express Toll Lanes which includes the NE 44th Street interchange and BRT station, I-405 NE 85th interchange and BRT Station, and BRT stations that are part of WSDOTs I-405—SR 522 Vicinity to SR 527 Express Toll Lanes Improvement Project.



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#### **Community Engagement**

We are committed to proactively seeking public input during all stages of the project. The I-405 BRT Community Engagement and Communication Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. We will collaborate with elected officials, partner staff and local communities throughout the project. Due to COVD-19 outreach efforts have shifted to virtual platforms.

- One hundred email invitations sent to Community Based organizations along the alignment to offer briefings on project
- Five email correspondence from the public
- Two community briefings held: Refuge Church on January 20th and City of Lynnwood on January 27th.

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is an annual projection. The variance will reduce once final design accelerates.

Overall, the YTD Actual FTE Monthly Average is slightly higher than Planned. As work progresses through 2022, actual monthly average variance to planned is expected to reduce.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	15.3	13.7	1.6
Consultants	26.5	31.0	(4.5)
TOTAL	41.8	44.7	(2.9)

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.

#### **Sound Transit Board Actions**

Board Action	Description	Date
M2022-05	Construction Agreement with the WSDOT for the Design - Build Delivery of the I-405/ NE 85th Street In-Line Freeway Station.	1/27/2022

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#### **Project Summary**

**Scope** Launch a Bus Rapid Transit (BRT) system

from the Shoreline South/148th light rail station to UW Bothell campus with connecting service to Woodinville, including park and ride, access improvements, and transit centers.

Limits Approximately 8 miles between Shoreline

and Bothell

Alignment The BRT route will travel via NE 145th

Street and SR 522 serving Seattle, Shoreline, Lake Forest Park, Kenmore, and Bothell, including UW Bothell/Cascadia College area. The route will have a connection to I-405 BRT at the SR 522/I-405 interchange. Buses will operate primarily in Business Access and Transit (BAT) lanes, transit queue bypass lanes,

and in general purpose lanes.

Stations Includes 14 BRT stations. Additional

parking is included in Lake Forest Park,

Kenmore, and Bothell.

Systems BRT Operations & Transit Signal Priority

Phase Final Design

**Budget** \$209.1 Million for Preliminary Engineering

Phase (1-3), Bothell Stage 3, Third Party Agreements, and Property Acquisition.

**Schedule** Target Date: 2026, not including parking

elements



Map of Project Alignment



Illustration of BRT station design in Bothell at NE 185th ST and 104th Ave NE

#### **Key Project Activities**

- Continued coordination with the local jurisdictions on the design development of the SR 522 / NE 145th BRT corridor.
- Worked toward finalization of a concurrence letter with City of Bothell on the scope and funding related to the street improvement of NE 185th Street from Bothell Way NE to Beardslee Boulevard
- The Project Development Consultant, David Evans and Associates, Inc. (DEA), completed all of their 30% design submittals.
- Continued to advance the NE 145th Street, Lake Forest Park and Kenmore segments toward 60% design.
- Began scoping work with the General Engineering Consultant (GEC) for the 60% design work of the Bothell segment.

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#### **Project Cost Summary**

The project cost is summarized below in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period expenditures increased by \$2M. This is primarily due to progress on final design for \$1.1M with the GEC contract, construction progress in Bothell for \$0.7M, Sound Transit staff time accounts for \$92K, and in ROW for \$94K.

#### **Cost Summary by Phase**

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$13.9	\$7.5	\$7.3	\$13.9	\$0.0
Preliminary Engineering	\$15.5	\$15.4	\$15.3	\$15.5	\$0.0
Final Design	\$33.8	\$10.2	\$2.0	\$33.8	\$0.0
Construction Services	\$0.6	\$0.0	\$0.0	\$0.6	\$0.0
3rd Party Agreements	12.1	\$10.8	\$0.6	12.1	\$0.0
Construction	\$49.4	\$25.0	\$23.9	\$49.4	\$0.0
Right-of-Way (ROW)	\$83.8	\$2.0	\$0.9	\$83.8	\$0.0
Total	\$209.1	\$70.8	\$50.0	\$209.1	\$0.0

Tables across this report may have totals that do not equal line item sums due to decimal rounding.

#### **Risk Management**

The following are the top project risks and proposed mitigations:

- The SR 522/NE 145th Street BRT project is an early deliverable and involves close coordination with multiple project partners. Staff and consultants are continuing to coordinate closely with project partners.
- Early concurrence on project components is a key effort of project development though on-going coordination with the Project Interagency Coordination Group, City Managers Group and Elected Leadership Group. Letters of Concurrence are being developed with jurisdictions on the SR 522/145th BRT alignment for the project advancing to 30 percent design.
- Coordination of project on NE 145th with WSDOT and the Cities of Seattle and Shoreline complex jurisdictional situation and third partner expectation for ST capital investment. Partner agency staff are actively working towards a solution.

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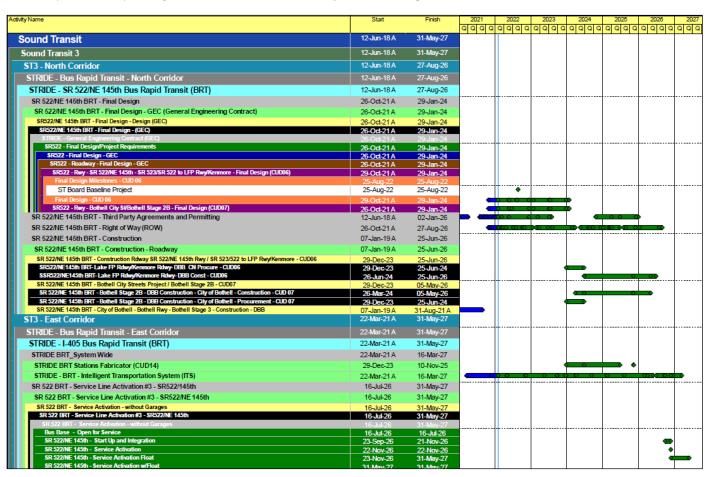
#### **Project Schedule**

The Board of Directors announced their realignment decision in August 2021. ST is working with the GEC consultant to address the project schedule to align with the decision.

"Project to be Built" was approved by ST Board in September 2021.

The current critical path for the ST 522/NE 145th BRT project is Final Design by the GEC who was issued a task order in October 2021 to proceed with design for CUD 06 - SR522/NE145th Rdwy through construction procurement, civil construction, system testing and project float. Near critical is ROW acquisition which will be monitored closely along with permitting/agreements. The current forecast for completion is Q2 2027, 151 days past the ST Board realignment milestone.

Sound Transit contributed construction funding to certain city(s)/Authorities Having Jurisdiction (AHJ) where construction by contracts managed by those city(s) (e.g. City of Bothell) commenced in Q2 2019 allowing early construction of transit speed and reliability on roadways along the BRT corridor in advance of BRT service operation.



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#### **Community Engagement**

We are committed to proactively seeking public input during all stages of the project. The SR522 BRT Community Engagement and Communication Guide establishes a stakeholder engagement process that helps ensure priorities of local communities are heard and considered along with the project-wide goals. We will collaborate with elected officials, partner staff, and local communities throughout the project. Due to COVD-19 outreach efforts have shifted to virtual platforms.

• 15 email correspondences from the public

#### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of ST project staff and consultants. Planned FTE are an annual projection and remains constant from month to month. The Year-to-Date (YTD) Performance is the total actual FTEs accumulated through this reporting period. Staffing status is summarized in the following table.

Planned FTE is an annual projection. The variance will reduce once final design accelerates.

The YTD Actual FTE Monthly Average is lower than Planned currently. However, both ST Staff and Consultants staff level will ramp up as the project progresses toward 60% design in 2022 to be at or close to the Planned FTE Monthly Average.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance	
ST Staff	17.8	10.3	7.5	
Consultants	38.0	8.3	29.7	
TOTAL	55.8	18.6	37.2	
* An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 173.33.				

#### **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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## Progress Report Capital Program Support



### **Capital Program Support Grants**



#### **Current Grant Funding** (Includes only Active Executed Grants)

Line of Business	Grant Number	Grant / Project Description	Award Amount	Date Executed	Balance Remaining
FEDERAL TRANSIT AUTHOR	ITY				
LINK LIGHT RAIL	WA-03-0237	University Link Extension	684,370,641	09/16/2015	68,419,050
LINK LIGHT RAIL	WA-2018-013	Hilltop Tacoma Link Extension SYGA	74,999,999	05/15/2018	9,774,195
SOUNDER COMMUTER RAIL	WA-2018-015	Sounder Rolling Stock	7,800,002	12/30/2019	7,800,002
SOUNDER COMMUTER RAIL	WA-2018-081	Puyallup Station Access Improvements	6,700,000	07/16/2019	-
LINK LIGHT RAIL	WA-2018-082	* East Lake Sammamish Trail North Extensio	2,318,683	04/29/2020	1,718,683
LINK LIGHT RAIL	WA-2019-001	Lynnwood Link Extension FFGA	497,710,967	03/19/2021	17,239,162
LINK LIGHT RAIL	WA-2020-001	Federal Way Link Extension	297,710,967	02/25/2021	88,198,263
SOUNDER COMMUTER RAIL	WA-2020-002	S Sounder Capacity Exansion	5,600,000	12/13/2019	5,088,369
REGIONAL EXPRESS	WA-2020-007	I-405 Bus Rapid Transit- Bus Procurement	5,400,000	12/21/2020	5,400,000
REGIONAL EXPRESS	WA-2020-080	HIMB Bus Prev Maint	14,898,460	09/08/2021	-
LINK LIGHT RAIL	WA-2020-086	HIFG Rail Prev Maint	38,937,648	09/18/2021	753,019
LINK LIGHT RAIL	WA-2021-002	Downtown Redmond Link Ext	31,668,475	09/10/2021	_
LINK LIGHT RAIL	WA-2021-004	Everett Link Extension Model Code Partne	2,000,000	12/31/2020	1,873,685
REGIONAL EXPRESS	WA-2021-012	SR 522/NE 145th BRT Vehicles	4,800,000	02/25/2021	4,800,000
REGIONAL EXPRESS	WA-2021-083	Bus Replacements	1,494,561	09/07/2021	_
SOUNDER COMMUTER RAIL	WA-2021-085	Auburn Station Access Improvments	1,500,000	09/10/2021	1,500,000
Bus RAPID Transit	WA-2021-115	I-405 BRT Expansion Buses	7,255,465	09/18/2021	7,255,465
LINK LT RAIL & SOUNDER	WA-2021-123	Rail State of Good Repair - PIMS	3,612,229	09/24/2021	3,612,229
SOUNDER COMMUTER RAIL	WA-2021-140	20 CARSI/5307 Enhance at Puyallup CR Stn	1,421,500	10/28/2021	1,421,500
REGIONAL FUND	WA-2021-141	ARP Act 2021-Operating Expense	275,258,761	10/28/2021	230,064,218
LINK LIGHT RAIL	WA-95-X061	Hilltop Tacoma Link Extension	5,599,943	08/27/2015	285,750
REGIONAL EXPRESS	WA-95-X073	Bellevue Way HOV - E Link	2,200,000	08/08/2014	-
		TOTAL FEDERAL TRANSIT AUTHORITY	1,973,258,301		455,203,590
OTHER FEDERAL					
REGIONAL FUND	EMW-2017-RA-00018	Radio Communication Network	662,138	11/02/2017	662,138
REGIONAL FUND	EMW-2019-RA-00014	ATAT, Crit Evnt OT, Fac Hardening	1,315,813	09/01/2019	857,457
REGIONAL FUND	EMW-2020-RA-00022	Crit Evnt OT, CEDO	642,738	08/10/2020	596,099
		TOTAL OTHER FEDERAL	2,620,689		2,115,694
STATE					
REGIONAL FUND	19-92501-015	Agency Energy Efficiency Project	197,000	06/03/2019	197,000
REGIONAL EXPRESS	PTD0164	Afford & Access Improv Low Income Riders	500,000	02/10/2020	
		TOTAL STATE	697,000		196,999
		TOTAL ALL GRANTS	1,976,575,990		457,516,283
* = Multiple values exist within the	his grant number groupin	g, see AwardID for details.			

Above table as of Q4 2021. This section is updated every quarter.

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#### Capital Program Support Environmental Affairs & Sustainability



#### Sustainability

Sustainability is at the core of Sound Transit's mission to connect more people to more places efficiently, affordably, reliably and in an environmentally friendly manner. Investing in transit builds a better future, maintains a clean environment, and supports both healthy communities and vibrant economies. At Sound Transit, sustainability is about more than the natural environment – it is a holistic goal that protects and enhances people, planet and prosperity.

In 2021, Sound Transit continues to carry out a wide range of projects, with increased focus on integrating sustainable design into capital expansion – from planning and final design to construction. With the passage of the ST3 Plan, a fully funded Sustainability Program will integrate green building and infrastructure in projects across all phases of development.

Sound Transit continues to implement our Sustainability Initiative through our internationally certified (ISO 14001) Environmental and Sustainability Management System (ESMS). The agency also continues to be a transit industry leader through our ongoing participation in APTA's Sustainability Commitment at the platinum recognition level.

#### Key Accomplishments and Activities for Q4 2021

- Launched the ESMS general awareness training with a 98% completion rate.
- Presented at the APTA Sustainability Workshop on sustainability strategic planning.
- Presented at Washington State Transportation Association's Annual Conference on zero emission bus planning.
- Completed the ESMS External surveillance audit with ISO 14001 Registrar with no major or minor findings.
- Complete annual environmental compliance audit at Federal Way Link Extension
- Began development of 2022 Environmental and Sustainability Targets.
- Completed design of an internal sustainability networking and learning community.
- Hosted three lunch and learns for agency staff.

#### **Key Upcoming Activities for Q1 2022**

- Publish 2022 Environmental and Sustainability targets.
- Begin data collection for 2021 Annual Sustainability Progress Report and greenhouse gas inventory.
- Collect applications for Efficiency and Sustainability Program internal grant program.

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## Progress Report Acronyms



#### **Acronyms**



AA	Alternative Analysis	FD	Final Design
AHU	Air Handling Units	FHWA	Federal Highway Administration
AHJ	Authority Having Jurisdiction		Final Supplemental Environmental Impact
ALTA	American Land Title Association	FSEIS	Statement
BCE	Baseline Cost Estimate	FFGA	Full Funding Grant Agreement
BCWS	Budgeted Cost of Work	FTA	Federal Transit Administration
BIM	Building Information Modeling	FTE	Full Time Employee
BNSF	Burlington Northern Santa Fe Railway	GC/CM	General Contractor /Construction Management
BOS	Bus on Shoulder	GEC	General Engineering Contract
BRT	Bus Rapid Transit	HVAC	Heating, Ventilation and Air Conditioning
CCB	Change Control Board	ICD	Integration Control Document
CCTV	Close Circuit Television	IFB	Issue for Bids
CDF	Controlled Density Fill	TEC.	Issue for Construction, also Industry
CHS	Capitol Hill Station	IFC	Foundation Classes
CM	Construction Management	IRT	Independent Review Team
CMU	Concrete Masonry Unit	IWP	Industrial Waste Permit
CO	Change Order	JA	Jacobs Associates
CPI	Cost Performance Index	JARPA	Joint Aquatic Resource Permit Application
CPM	Critical Path Method	KCM	King County Metro
DAHP	Department of Archaeology & History	LNTP	Limited Notice to Proceed
D / D.T.	Preservation	LRRP	Light Rail Review Panel
DART	Days Away, Restricted or Modified	LRT	Light Rail Transit
DB	Design-Build	LRV	Light Rail Vehicle
DBPM	Design-Build Project Management	LTK	LTK Engineering Services
DCE	Document Categorical Exclusion	MACC	Maximum Allowable Construction Cost
DECM	Design, Engineering and Construction  Management	MBT	Mount Baker Tunnel
DEIS	Draft Environmental Impact Statement	MEPF	Mechanical/Electrical/Plumbing/Fire Sprinkler
DP	Design Package	MLK	Martin Luther King, Jr. Way
	Seattle Department of Planning and	MOA	Memorandum of Agreement
DPD	Development Development	MOU	Memorandum of Understanding
DSC	Differing Site Conditions	MOW	Maintenance of Way
DSDC	Design Support During Construction	MPPCV	Major Public Project Construction Variance
DSTT	Downtown Seattle Transit Tunnel	MRB	Material Review Board
EFC	Estimated Final Cost	MUP	Master Use Permit
EMI	Electro Magnetic Interference	NB	Northbound
ERC	East Rail Corridor	NCR	Notification of Change Report

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#### **Acronyms**



NCTP	North Corridor Transit Partners	SIP	Street Improvement Permitting
NEPA	National Environmental Policy Act	SPI	Schedule Performance Index
NOAA	National Oceanic and Atmospheric	SR	State Route
1,012.2	Administration	ST	Sound Transit
NPDES	National Pollutant Discharge Elimination System	START	Seattle Tunnel and Rail Team
NTP	Notice to Proceed	SWI	Stacy and Witbeck, Inc.
ocs	Overhead Catenary System	TBM	Tunnel Boring Machine
OMF	Operations and Maintenance Facility	TCAL	Temporary Construction Airspace Lease
OMSF	Operations and Maintenance Satellite Facility	TCE	Temporary Construction Easement
PA	Public Address System	TE	Traction Electrification
PE	Preliminary Engineering	TFK	Traylor Frontier Kemper Joint Venture
PEP	Project Execution Plan	TOD	Transit Oriented Development
PEPD	Planning, Environment and Project	TPSS	Traction Power Substations
TELE	Development	TVM	Ticket Vending Machine
<b>PMOC</b>	Project Management Oversight Consultant		
PSST	Pine Street Stub Tunnel	UAC	Unallocated Contingency
QA	Quality Assurance	U-Link	University Link project
QC	Quality Control	UDS	University District Station
QTR	Quarter	USFWS	U.S. Fish and Wildlife Service
RE	Resident Engineer	UW	University Of Washington
RFC	Request for Change	UST	Underground Storage Tank
RFD RFI	Request for Deviation	UWS	University of Washington Station
RFP	Request for Information Request for Proposal	VAV	Variable Air Volume
RFQ	Request for Qualifications	VE	Value Engineering
RIR	Recordable Injury Rates	VECP	Value Engineering Cost Proposal
RMP	Risk Management Plan	VMS	Video Management System
ROD	Record of Decision	WBS	Work Breakdown Structure
ROW	Right -of -Way	WDFW	Washington Department of Fish and Wildlife
RSD	Revenue Service Date	WSDOT	Washington Department of Transportation
SB	Southbound		
SCADA	Supervisory Central and Data Acquisition		
SCC	Standard Cost Categories		
SCL	Seattle City Light		
SDEIS	Supplemental Draft Environmental Impact Statement		
SEPA	State Environmental Policy Act		

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