# Agency Progress Report Capital Programs



Ongoing Testing throughout the Hilltop Tacoma Link Extension Project Area

**January | 2023** 



#### **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 Aniekan Usoro 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**



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## **Sound Transit future service**



02/2



# **Executive Summary**Sound Transit Capital Program

#### \$1 ORCA LIFT fares

At its January meeting, the Sound Transit Board formally adopted the \$1 fare for ORCA LIFT riders on Sound Transit services, effective March 1. The move follows the completion of a six-month demonstration project implemented in September 2022 at the Board's direction.

The change is estimated cost approximately \$25 million through 2046 and is included in the Fall 2022 Long Term Financial Plan.

During the demonstration project, Sound Transit conducted public outreach and prepared a Title VI fare equity analysis. This outreach showed that 88 percent of people who responded to a survey or provided comments at a Public Hearing supported the \$1 ORCA LIFT fare or further reductions in the fare.

In May 2022, the Board directed Sound Transit staff to take ongoing actions to increase ORCA LIFT enrollment to 80 percent of the likely market. Between August and early December 2022, ORCA LIFT enrollments in Pierce, King and Snohomish counties increased 22%, reaching more than 53,000 active customers. Efforts will continue to enroll the approximately 84,000 customers required to reach the goal of 80 percent of the market.

#### Sounder S Line Sumner Station garage contract

Also at the January meeting, the Sound Transit Board awarded a design-build contract for the parking garage at Sumner Station to Harbor Pacific Contractors, Inc. of Woodinville. When complete in early 2026, the \$49 million garage will serve Sounder S Line passengers. It will also serve Sound Transit Express riders. The 602-stall garage will provide 505 net new parking spaces at the station. Currently, the existing parking at Sumner Station is routinely full very early in the morning.

Previously, Sound Transit contributed \$7.5 million for pedestrian, bicycle, lighting and ADA improvements to the Sumner station area. That work was performed by the city of Sumner.

In addition to the contract award, the Sound Transit Board also baselined new Sounder-serving garages in Kent and Auburn for delivery in 2027.

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# Progress Report Link Light Rail Program



**Link Light Rail leaving Mount Baker Station** 





# **Sound Transit Link light rail**

**Current service and future extensions** 



02/2023

### Link Light Rail Program Overview



**Ballard Link Extension:** The project 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 and tunnel guideway, and a new crossing across Salmon Bay.

**Boeing Access Road Infill Station:** The project will plan, design and construct a new light rail infill station in the vicinity of South Boeing Access Road and I-5. Preliminary project budget established in 2023 and will proceed through Phase Gate 1 this year. Reporting on project progress will commence following the completion of Phase Gate 1.

**Downtown Redmond Link Extension:** The 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:** The project 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.

**Everett Link Extension:** The project 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 project extends 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.

**Graham Street Infill Station:** The project will plan, design and construct a new light rail infill station in the vicinity of South Boeing Access Road and I-5. Preliminary project budget established in 2023 and will proceed through Phase Gate 1 this year. Reporting on project progress will commence following the completion of Phase Gate 1.

**Hilltop Tacoma Link Extension:** The project extends approximately 2.4 miles to 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.

**Light Rail Vehicle (LRV) Fleet Expansion:** The 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.

**Lynnwood Link Extension:** The project 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.

**North Corridor Maintenance of Way:** The project will construct a maintenance of way facility that will serve and support the Northgate Link, Lynnwood Link, and Ballard Link Extensions. A temporary facility will be established to support the timing of pre-revenue service on the Lynnwood Link Extension with plans underway for the permanent facility.

**Tacoma Dome Link Extension:** The 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 Link Extension:** The project includes 4.7 miles of light rail from downtown Seattle to West Seattle's Junction neighborhood. It includes four light rail stations. The route will run on elevated and tunnel guideway with a new rail-only bridge over Duwamish River.

### 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
Ballard Link Extension	\$630.6	\$160.9	\$112.5	\$630.6	\$0.0
Downtown Redmond Link Extension	\$1,530.0	\$1,015.9	\$731.4	\$1,530.0	\$0.0
East Link Extension	\$3,677.2	\$3,328.8	\$3,238.1	\$3,677.2	\$0.0
Everett Link Extension	\$196.6	\$25.0	\$21.8	\$196.6	\$0.0
Federal Way Link Extension	\$2,451.5	\$1,885.2	\$1,365.1	\$2,451.5	\$0.0
Hilltop Tacoma Link Extension	\$282.7	\$264.4	\$256.6	\$282.7	\$0.0
Light Rail Vehicle (LRV) Fleet Expansion	\$740.7	\$690.1	\$495.0	\$740.7	\$0.0
Lynnwood Link Extension	\$2,771.6	\$2,545.7	\$2,111.8	\$2,771.6	\$0.0
NE 130th Street Infill Station	\$240.2	\$54.6	\$30.9	\$240.2	\$0.0
North Corridor Maintenance of Way	\$32.0	\$2.2	\$2.1	\$32.0	\$0.0
Tacoma Dome Link Extension	\$299.1	\$105.4	\$67.8	\$299.1	\$0.0
West Seattle Link Extensions	\$225.0	\$48.6	\$31.3	\$225.0	\$0.0
Total	\$13,077.4	\$10,126.9	\$8,464.4	\$13,077.4	\$0.0

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

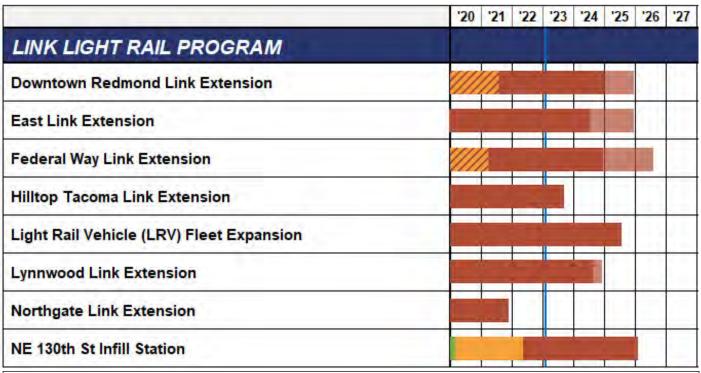
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### Link Light Rail Program Overview



#### **Program Schedule of Baseline Projects**

Baseline projects are summarized below. Please see the individual project reports for further details, including schedules for prebaselined projects.





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# Link Light Rail Ballard Link Extension



#### **Project Summary**

**Scope** The Ballard Extension includes 7.1 miles of

light rail from downtown Seattle to Ballard's Market Street area.

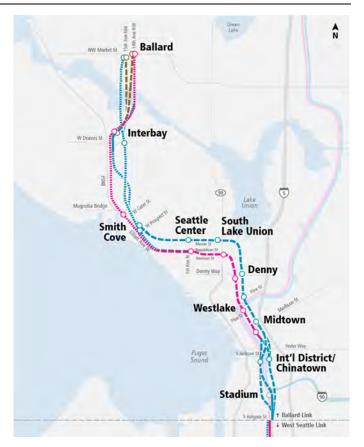
The Draft EIS included alignment alternatives in Downtown, Interbay, and Ballard; different station depths in Chinatown-International District and Downtown; and bridge and tunnel alternatives across Salmon Bay.

Phase Planning

**Budget** \$630.6 M through completion of

**Preliminary Engineering** 

**Schedule** Target date: 2037



Map of Project Alignment

#### **Key Project Activities**

- Continued further studies and engagement in some areas as requested by the Board in July 2022. A full report to the Board
  is anticipated by February 2023 which may inform a future action to confirm or modify the preferred alternative for the
  Ballard Link Extension.
- Continued engagement with partner and regulatory agencies, stakeholder groups and property owners regarding areas of further study, preliminary findings and next steps.
- Continued community engagement activities including meetings with community groups and property owners. Held a workshop with Chinatown-International District community and a workshop near the Interbay/Ballard segment to provide updates, share results and collect community feedback on the further studies in these areas.

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# Link Light Rail Ballard Link Extension



#### **Project Cost Summary**

The Ballard Link Extension is 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 \$67M in 2023 for coordinating Final EIS development, preliminary 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	\$40.6	\$30.7	\$30.6	\$40.6	\$0.0
Preliminary Engineering	\$235.8	\$124.8	\$77.8	\$235.8	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$4.4	\$0.0	\$0.0	\$4.4	\$0.0
3rd Party Agreements	\$7.7	\$2.7	\$1.5	\$7.7	\$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	\$342.2	\$2.8	\$2.5	\$342.2	\$0.0
Total	\$630.6	\$160.9	\$112.5	\$630.6	\$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	\$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	\$341.4	\$2.8	\$2.5	\$341.4	\$0.0
80 Professional Services	\$271.9	\$158.1	\$110.0	\$271.9	\$0.0
90 Unallocated Contingency	\$17.3	\$0.0	\$0.0	\$17.3	\$0.0
Total (10 - 90)	\$630.6	\$160.9	\$112.5	\$630.6	\$0.0

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

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# Link Light Rail Ballard Link Extension



#### **Risk Management**

The following are the top project-wide risks:

- Delay in reaching stakeholder consensus on a preferred alternative, including third party funding, likely to delay completion of environmental documentation and design.
- Complexity of alignments in a constrained environment with challenging topography and waterway crossing.
- Complexity associated with tunneling through a mature urban environment.
- Potential construction effects in a constrained environment.
- Potential effect on Central Link operations during construction.
- Potential schedule risks associated with real estate acquisition process.
- Budget risk due to higher current real estate costs and construction costs.
- Potential permitting challenges and other necessary coordination/approvals could delay the project and add cost.

#### **Project Schedule**

The Board of Directors announced their realignment decision in August 2021 which includes a target date of 2037. Further studies were directed by the Board in July 2022, and are anticipated to culminate with Board identification of a Preferred Alternative in March 2023. As a result of the additional studies, the Begin PE milestone has experienced a 10-month delay relative to the baseline milestone of June 2022. While the project team is working to evaluate the impacts of the delay on the overall project schedule, it is currently forecasted to result in a 10-month delay to the target service date.



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# Link Light Rail Ballard Link Extension



#### **Community Engagement**

- Conducted outreach to one property owner throughout the corridor.
- Conducted 19 community outreach briefings, tours, and other external engagement activities throughout the corridor.
- Held one workshop in the Chinatown International District, one workshop for Seattle Center, and one open house for Interbay/Ballard.

#### **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 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-19.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	36.0	20.8	15.2
Consultants	108.3	47.3	61.0
TOTAL	144.4	68.1	76.2

<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**

Board Action	Description	Date
	None to report this period.	

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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: Marymoor Village and

Downtown Redmond

Systems Signals, traction electrification, and

communications (SCADA)

Phase Construction

**Budget** \$1.53 Billion (Baselined October 2018)

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



Map of Downtown Redmond Link Extension

#### **Key Project Activities**

- Continue review of Certifiable Items List documentation and uploading into SSIMS.
- The DRLE Team escorted King County Council Member Perry to the Bear Creek bridge crossing on February 1, 2023. Coordinating with the City of Redmond for ST CEO attendance at the City of Redmond Council meeting on February 21st.
- Further discussion with the City of Redmond on tree mitigation solution.
- Coordinating with City of Redmond and East Link on work required to be complete to satisfy E360 permit closeout requirements at the NE 40th interface.
- Preparing concept plans and considering delivery options for Woody Debris project (condition of Corps permit) and coordinating and monitoring new cell tower construction by others.
- Received L&I Gold Seal for E28 TPSS.

#### **Closely Monitored Issues**

- PSE Permanent Power for TPSS: Working with PSE downtown service and agreed to cost-effective design.
- PSE notified ST of supply chain disruption of electrical equipment needed for cutover services (does not apply to TPSS service). Working with PSE and Design-Build (DB) contractor to determine potential mitigation and impacts.
- DB is reporting concerns on future crew availability and supply chain impacts. Team continues to look for opportunities to mitigate potential impacts.
- L&I support for system building design review: L&I experiencing staffing shortages that may impact the duration of their review and inspection.
- Development of Rail Activation schedule in close coordination with R200 schedule.
- Working with City of Redmond to finalize agreements regarding tree mitigation.
- Reviewing draft Transition or Operations plan.

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#### **Project Cost Summary**

Voters approved funding for preliminary engineering for the Downtown 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. 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 \$22M of expenditure. Most of the expenditures incurred primarily in the construction phase for progression of Design-Build scope. The remaining work phases made up the balance, particularly in Construction Services and Administration. Total cumulative expenditure to date rose from \$709.0 M to \$731.4 M.

#### **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	\$24.5	\$23.9	\$77.0	\$0.0
Preliminary Engineering	\$23.0	\$23.0	\$19.6	\$19.4	\$23.0	\$0.0
Final Design	\$4.5	\$4.5	\$1.43	\$1.3	\$4.5	\$0.0
Construction Services	\$58.0	\$63.6	\$49.7	\$31.0	\$63.6	\$0.0
Third Party Agreements	\$17.0	\$17.0	\$10.7	\$8.03	\$17.0	\$0.0
Construction	\$1,151.5	\$1,145.9	\$801.2	\$540.0	\$1,145.9	\$0.0
ROW	\$199.0	\$199.0	\$108.7	\$107.4	\$199.0	\$0.0
Total	\$1,530.0	\$1,530.0	\$1,015.9	\$731.4	\$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	\$247.8	\$170.5	\$462.9	(\$130.5)
20 Stations	\$261.9	\$261.9	\$196.8	\$121.6	\$196.9	\$65.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$287.0	\$288.1	\$209.4	\$127.7	\$239.8	\$48.3
50 Systems	\$108.6	\$103.2	\$71.0	\$44.0	\$82.2	\$21.0
Construction Subtotal (10 - 50)	\$989.9	\$985.6	\$728.0	\$463.8	\$981.8	\$3.8
60 Row, Land	\$168.5	\$168.5	\$108.8	\$107.4	\$168.5	\$0.0
70 Vehicles (Non-Revenue)	\$4.1	\$4.1	\$0.3	\$0.3	\$4.1	\$0.0
80 Professional Services	\$289.3	\$293.6	\$1801.8	\$159.5	\$297.4	(\$3.8)
90 Unallocated Contingency	\$78.2	\$78.2	\$0.0	\$0.0	\$78.2	\$0.0
Total (10 - 90)	\$1,530.0	\$1,530.0	\$1,015.9	\$731.4	\$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 following are the current top risk areas that may impact project cost and schedule:

- Externalities: Supply chain interruptions, inefficiencies, labor availability; Inflationary pressure on construction supplies and materials.
- **Organizational Capacity:** Opening three other major light rail extensions in 2024, agency staffing and operating 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; owner changes.
- **Permitting and 3<sup>rd</sup> Party Requirements:** Construction adjacent to SR-520; 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: Geotechnical conditions could increase cost and delay schedule.





Artist Rendering of Downtown Redmond (above) and Bird's-eye View Current Progress (below)

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#### **Contingency Management**

The project baseline included a total contingency of \$435.8M. The total project contingency balance stands at \$231.7M. 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. No Change on DA this period. 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 is at \$150.7M, No change to AC this period.

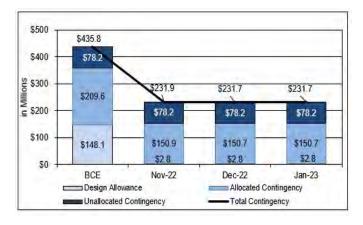
**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC balance remains at \$78.2M.

#### **Contingency Status**

Contingency	Baseline  Amount % of Total Budget F		Current Status		
Туре			Amount Remaining	% of Work Remaining	
Design Allowance	\$148.1	9.7%	\$2.8	0.3%	
Allocated Contingency	\$209.6	13.7%	\$150.7	18.0%	
Unallocated Contingency	\$78.2	5.1%	\$78.2	9.8%	
Total	\$435.8	28.5%	\$231.7	29.0%	

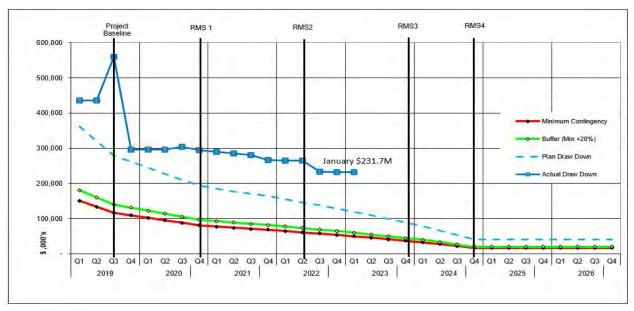
#### Table figures are shown in millions.

#### **Contingency by Type**



#### **Contingency Drawdown**

DRLE project's total contingency drawdown trends better than planed and remains above the baseline drawdown projection. The trend is well above both the minimum contingency and the buffered (minimum plus 20%) contingency levels. January contingency has not changed compared to December balance.



Contingency Drawdown as of January 31, 2023

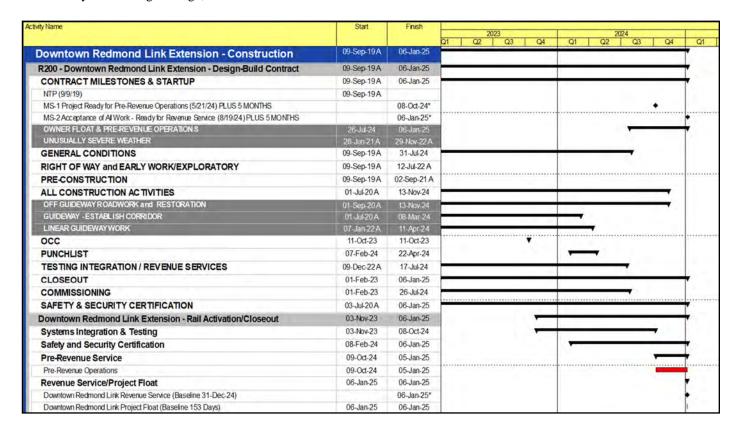
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#### **Project Schedule**

Weighted percent complete of the R200 contract is calculated at 64.5%.

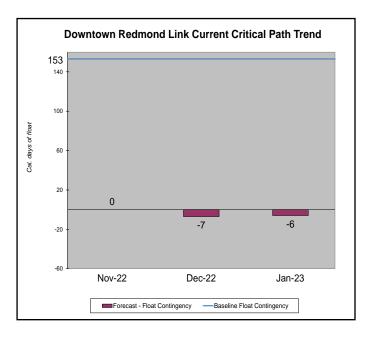
The January update is presented below. The contractor continued working on cap beams and MSE panels along SR520, and the wing walls for the 60th cut and cover tunnel; decks and curbs for downtown elevated guideway; columns and shear walls at the Marymoor Village Garage; and foundations and curbs at Downtown Redmond Station.



#### **Project Float**

DRLE was baselined with 153 days of project float. Current float projection is –6 days. Due to challenging weather and ongoing industry-wide resource challenges; work fell behind on wall construction along the at-grade portion of guideway. The contractor is currently evaluating mitigations to recover this time. Sufficient float remains within the R200 contract to absorb any additional days granted to the contractor for unavoidable delay due to weather.

As a result of the program-wide risk assessment, a new target for opening of DRLE was set for Spring 2025. In early 2023, reporting will be revised to reflect progress toward the new target.

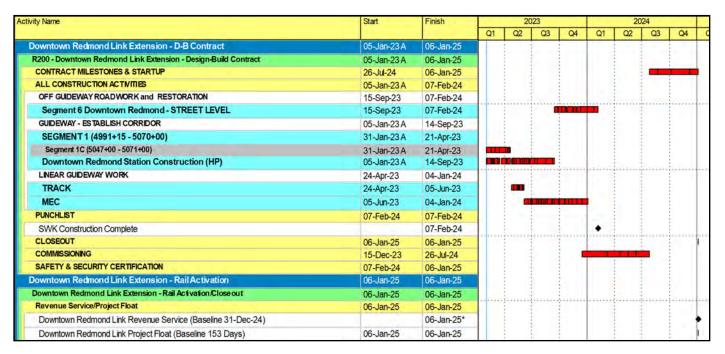


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#### **Critical Path Analysis**

The critical path for R200 this month runs through guideway walls in Segment 1C, then into trackwork, OCS installation, testing and closeout. The communications room in Marymoor Village Garage is near-critical.



#### 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 easements, 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				REL	OCATION
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date*	Relocations Required	Relocations Completed to date
84	94	93	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 DRLE 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 increasing construction activities. Planning engagement strategy along with Business
  Relations program for 2023.
- Ongoing conversations with 9 homeowners north of SE 51st Street regarding nocost easement along future sound wall.
- Ongoing communication with resident south of NE 60th Street along SR520 who is concerned about the height of the future sound wall.
- Ongoing communications with City of Redmond and Lake Washington School District.
- Ongoing coordination with WSDOT, Microsoft, and the City of Redmond to communicate the reopening of 40th, 60th, and SR 202 to EB SR 520 off-ramp.
- Co-authored an article in a City of Redmond newsletter highlighting sustainability on the DRLE project.

#### **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 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. Overtime the variance should trend closer to plan.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance		
ST Staff	29.7	24.9	4.8		
Consultants	26.7	28.0	(1.3)		
TOTAL	56.4	52.9	3.5		
* An ETE is the equivalent of 1000 hours. VTD performance ETE hours are divided by a monthly factor of 160					

An FTE is the equivalent of 1920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

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

Board Action	Description	Date
M2023-04	Authorizes the chief executive officer to (1) execute an agreement with the cities of Bellevue, Mercer Island, and Redmond for Sound Transit to pay an agreed amount of \$1,527,303 for emergency responder training and equipment needed for the startup of the East Link and Downtown Redmond Link Extensions, and (2) transfer previously purchased emergency responder preparedness equipment.	1/12/2023

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#### **Construction Safety**

Data/ Measure	January 2023	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	20	
Days Away From Work Cases	0	0	2	
Total Days Away From Work	0	0	77	
First Aid Cases	10	10	89	
Reported Near Mishaps	1	1	25	
Average Number of Employees on Worksite	607	-	-	
Total # of Hours (GC & Subs)	52,268	52,268	1,175,836	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00	3.40	
LTI Rate	0.00	0.00	0.34	
Recordable National Average	2.50			
LTI National Average	1.10			
Recordable WA State Average	4.40			
LTI WA State Average	2.00			

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

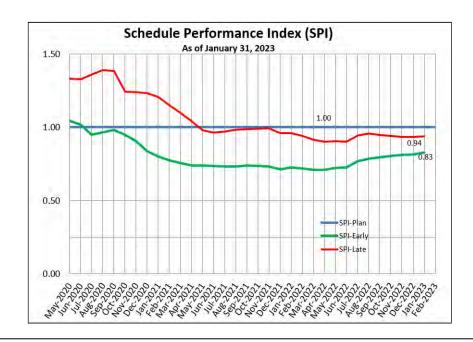
#### **Current Progress**

#### **Construction:**

- Cut and Cover Construction: Continued Pre-cast ballast wall installation and backfill, GW drainage piping at 51st to 60st.
   Track drainage installation work complete; vibration slab ballast scheduled for 40th to 51st street. Continued PSE utility work, formwork and rebar installation for curtain wall, abutment wall construction, wall underdrain and backfill work, and cap beam installation for precast wall work at 60th C&C and Unnamed Tributary Bridge area.
- Sammamish River to Marymoor Station: Track slab construction work ongoing, continued installation of drainage behind ballast wall, formwork and rebar installation at CIP wall going.
- Marymoor village Station and Garage: Continued installation of overhead conduits, fire suppression piping, and plumbing
  pipe. Track slab construction work on garage level 1. CMU wall construction work ongoing for garage level 2. Rebar and
  Mechanical Electrical Plumbing work ongoing on garage level 5. Shear wall and column construction work on garage level
  6. Access ramp deck rebar and diaphragm installation ongoing. Continued high voltage ductbank installation work at TPSS.
- SR-520/SR-202 Interchange: Continued construction of the CIP wall below the SR 520 Bridge, lightning tie-in from Redmond Tire to 70th work ongoing, cut & remove trees along 70th and 202 ongoing.
- Bear Creek to Downtown Redmond: Continued NCR corrective actions work, installation of expansion joint steal strips, and preparation to install emergency guard rail at Guideway structure.
- Downtown Redmond Station: Continued waterproofing and backfill at west elevator/escalator structures, and continued plumbing, electrical, grading, formwork, and vapor barrier work at east elevator/escalator structures.

#### **Schedule Performance Index**

The early Schedule Performance Index (SPI) for the project is at 0.83 for this period, and the late SPI is at 0.94. This period both early and late SPI for January 2023 are lower than projected. The contractor's performance is lagging behind baseline due to delay in roadway restoration throughout the project, labor resource availability and delay in parking garage concrete pour.



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

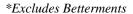
- Continue rebar work, form and pour walls, utility work and backfill roadway from Redmond Tech Garage to Marymoor.
- Continue track slab construction work and installation of drainage behind ballast wall.
- Continue rebar, form and pour concrete and MEP rough in Marymoor garage.
- Bear Creek to Downtown Redmond: continue concrete work and emergency guardrail installation at guideway toward Downtown Redmond Station.
- Continue installation of underground plumbing and electrical conduit as well as grading, formwork, and vapor barrier installation for slab-on-grade at escalator/ elevator structures at Downtown Redmond Station.

#### **Closely Monitored Issues**

- Design-Builder is reporting concern on future crew availability and supply chain impacts. DRLE team working closely with the team members to provide all necessary resources to minimize impacts. To alleviate the L&I personnel shortages, subcontractors proceeded in getting L&I to agree to allow a 3rd party consultant to perform the buildings' design reviews and fabrication inspection at the manufacturing facility during construction.
- PSE is dealing with an industry-wide supply chain issue affecting the work to energize the stations and signal houses. Delivery of the PSE switches and primary Metering Cabinets may impact the construction schedule. Continue monitoring status and working with PSE.

#### **Cost Summary**

Present Financial Status	Am	ount		
R200 Contractor – Stacy Witbeck Kuney, a Joint Venture				
Original Contract Value	\$	719,936,000		
*Change Order Value	\$	56,498,015		
Current Contract Value	\$	775,941,270		
Total Actual Cost (Incurred to Date)	\$	523,572,735		
Percent Complete		64.5%		
Alternative Concept Allowance	\$	30,200,816		
Authorized Contingency	\$	92,725,784		
*Contingency Drawdown	\$	56,005,270		
*Contingency Index		1.3		





Signal house foundation and conduit placement

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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 Transit Center area of Redmond.

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).

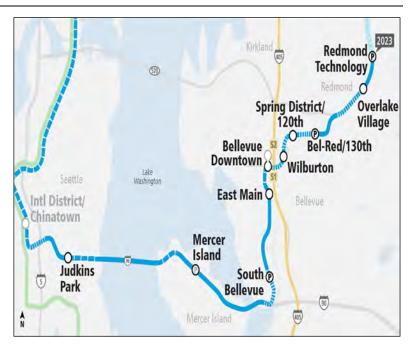
Systems Signals, traction electrification, and

communications (SCADA).

Phase Construction

Budget \$3.68 Billion (Baseline April 2015)

Schedule Baseline Revenue Service: June 2023



Map of East Link Extension Alignment

#### **Key Project Activities**

- Seattle to South Bellevue (E130): Ongoing non-conforming track plinth reconstruction from IDS to East Channel Bridge; continued punch list and commissioning activities throughout both the Judkins Park and Mercer Island Stations.
- Mercer Island Transit Integration (E135): Demolition and removal of sidewalk at bus stop on N Mercer Way and preparation of paving median; Finalizing completion on 80th Ave,
- **South Bellevue (E320):** Non-conforming track remediation (delayed until August—September to allow SIT work); continued punch list and landscape maintenance activities.
- **Downtown Bellevue to Spring District (E335)**: Conduit and wire install for firefighter access door, tunnel emergency ventilation system testing and commissioning, fire alarm commissioning and FACP programming, elevator work at Bellevue Downtown Station. L&I elevator and escalator inspection at Wilburton Station and 120<sup>th</sup> Station. Continued site wide punch list, landscaping and site cleaning.
- Bel-Red (E340): Continued closing out of final punch list items (civil/roadway and landscaping/mitigation items).
- SR520 to Redmond Technology Station (E360): RTS bus loop striping, electrical punch list, firestopping installation, garage levels 2-4 internal punch list, garage signage installation, crane pad area landscaping, planter beds installation; all other sites continued punch list, NCR, and close-out documentation.
- Systems (E750): Progressed communication installations at E130 to E360; performed local testing on communication and signaling equipment. Installation of feeder cables for energization and testing. Performing systems integration testing (SIT) between South Bellevue and Redmond Technology Stations.

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#### **Closely Monitored Issues**

- Work associated with the emergency ventilation system testing and commissioning in the Bellevue Downtown Tunnel,
- E130 track plinths demolition/reconstruction and nylon inserts replacement.
- Design corrections, scope additions, contractor performance issues, passenger information management system (PIMS).
- Contractor claims on E335 and E340 are measurable; E750 impacts are tied to E130's delay.
- Staff and consultant attrition and/or loss to other projects increases the risk of oversight "blind spots".
- Operational readiness operational capacity to support transition from construction and then to operate and maintain Link.

#### **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 was negligible, the total expenditure to date is about \$3.24B. Project commitment is now at approximately \$3.33B with all major construction contracts in place and with exception of E130 contract segment are at or near completion.

#### **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	\$133.3	\$132.2	\$186.2	\$0.0
Preliminary Engineering	\$55.9	\$54.8	\$54.8	\$54.8	\$54.8	\$0.0
Final Design	\$283.0	\$268.9	\$251.8	\$247.3	\$268.9	\$0.0
Construction Services	\$257.5	\$277.2	\$239.1	\$224.9	\$277.2	\$0.0
3rd Party Agreements	\$52.2	\$49.7	\$38.5	\$35.9	\$49.6	\$0.0
Construction	\$2,544.3	\$2,551.9	\$2,331.2	\$2,263.1	\$2,551.9	\$0.0
Light Rail Vehicles	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$298.2	\$288.5	\$280.1	\$279.8	\$288.5	\$0.0
Total	\$3,677.2	\$3,677.2	\$3,328.8	\$3,238.1	\$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	\$941.5	\$918.5	\$919.8	\$958.1	(\$16.7)
20 Stations	\$397.7	\$481.1	\$477.9	\$464.8	\$508.5	(\$27.4)
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$808.5	\$601.1	\$519.8	\$497.9	\$551.8	\$49.3
50 Systems	\$353.8	\$382.2	\$361.0	\$331.0	\$386.6	(\$4.4)
Construction Subtotal (10 - 50)	\$2,304.6	\$2,405.8	\$2,277.2	\$2,213.5	\$2,405.0	\$0.8
60 ROW, Land	\$288.5	\$288.5	\$280.2	\$279.8	\$288.5	\$0.0
70 Vehicles (non-revenue)	\$2.8	\$2.8	\$1.0	\$1.0	\$2.8	\$0.0
80 Professional Services	\$898.4	\$900.5	\$770.4	\$743.8	\$901.3	(\$0.8)
90 Unallocated Contingency	\$182.9	\$79.6	\$0.0	\$0.0	\$79.6	\$0.0
Total (10 - 90)	\$3,677.2	\$3,677.2	\$3,328.8	\$3,238.1	\$3,677.2	\$0.0

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

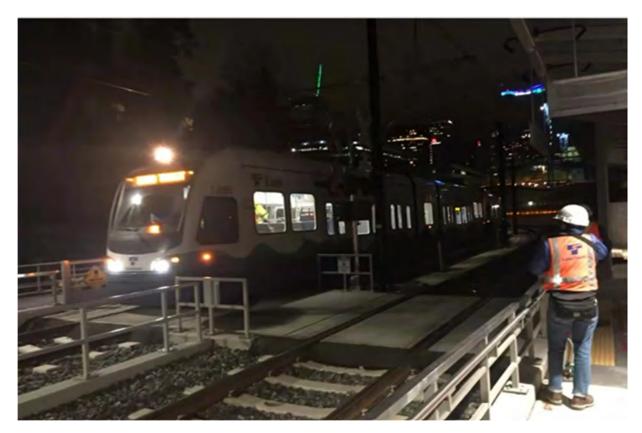
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#### **Risk Management**

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

- Externalities: COVID-19 and seasonal ailments; unhoused encampments; inflationary pressures on labor and supply chain continues to be a fluid situation, inefficiencies of our jurisdictional partners.
- **Design and Construction 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 from both internal and third parties.
- Late Discovery of Contractor Quality Issues: Non-conforming DF plinth constructions on E130 is the most significant impact on the project schedule. Late emergent issues are highly problematic during this late stage of the project due to the lack of time to recover and adhere to the planned schedule.
- Operational Readiness: Continued late deliveries of LRV and completion of Series I LRV Automatic Train Protection (ATP) retrofit is an ongoing risk. These issues are being monitored and mitigation steps are continually being examined. Delays in hiring key positions in King County Metro (KCM) is a significant concern. ST and KCM are examining mitigation options.
- Organizational Capacity: Loss of key personnel, including key consultants, to other projects creates risk around oversight
  and administration of project; developing and mobilizing resources and coordinating system integration and start up
  activities across multiple extensions concurrently. ST works closely with our consultants and internal leaders to maintain
  our staff and quickly fill gaps, if needed.



Live wire testing of LRV in the Bellevue segment of East Link

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#### **Contingency Management**

East Link project budget was baselined in April 2015 with a total contingency of \$795.9M. All major construction contracts have been procured and the total contingency balance stands at \$239.7M (previously \$244.6M). 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 balance is \$0.4M. 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, approximately \$5M of contingency was drawn but a net increase of about \$21.9M recorded primarily due to annual 2023 budgetary realignment shifting various budgetary capacity especially from UAC.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. This period, the UAC balance decreased by \$26.8M from the previous period due to annual 2023 budgetary realignment.

#### **Contingency Status**

Contingency	Base	eline	Current Status		
Туре	Amount	% of Total Budget	Amount Remaining	% of Work Remaining	
Design Allowance	\$184.1	5.0%	\$0.4	0.1%	
Allocated Contingency	\$428.9	11.7%	\$159.8	36.4%	
Unallocated Contingency	\$182.9	5.0%	\$79.6	18.1%	
Total	\$795.9	21.6%	\$239.7	54.6%	

#### **Contingency by Type**

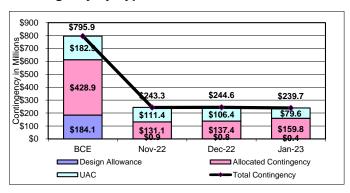
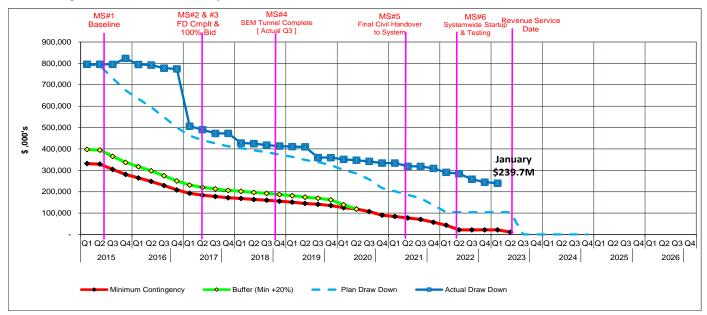


Table figures are shown in millions.

#### **Contingency Drawdown**

East Link Project's total contingency drawdown continues to trend within plan with an overall contingency balance approximately at \$239.7M (previously \$244.6M). 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 January recorded a net draw of \$5M.



Contingency Drawdown as of January 31, 2023

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#### **Project Schedule**

The Integrated Project Schedule presented below. Weighted percent complete of major construction contracts calculated at 98.2%.

E130 continued DF track plinth reconstruction, closeout, commissioning, and punch list work at stations and along guideway.

E320 has achieved substantial completion. Remaining work is limited to track repair and project closeout.

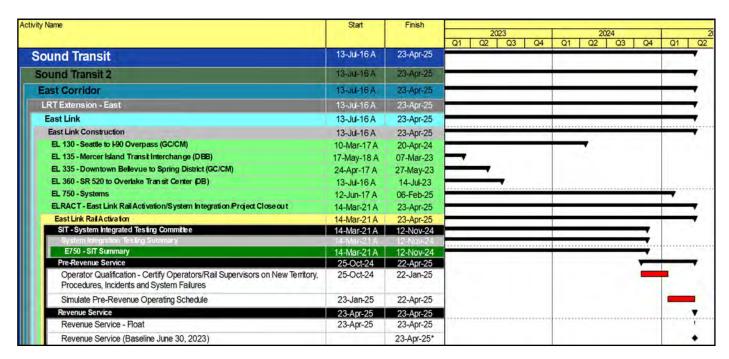
E330 has achieved final acceptance.

E335 continued commissioning in stations and tunnel, electrical work at BDS, and punch list work throughout.

E340 has achieved Substantial Completion and is working toward acceptance.

E360 continued RTS garage reconstruction, corrective work at OVS, and segment wide punch list work.

E750 continued system integration testing between South Bellevue and Redmond Technology Stations.

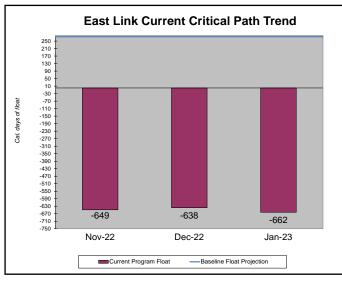


#### **Project Float**

East Link was baselined with 273 days of program float and is currently forecast to finish 662 days behind the target Revenue Service Date of June 30, 2023. Some float was lost this month as the E130 contractor has not yet met their forecast production rates for plinth rebuild.

As presented to the Sound Transit Board at this month's Executive Board meeting, timing and sequencing for multiple project openings has been revised following the programwide risk assessment, with a new target for East Link opening set for Spring 2025. As part of this assessment, it was determined that the pre-revenue period should be increased from 3 to 6 months.

In early 2023, reporting will be revised to reflect progress toward the new target.



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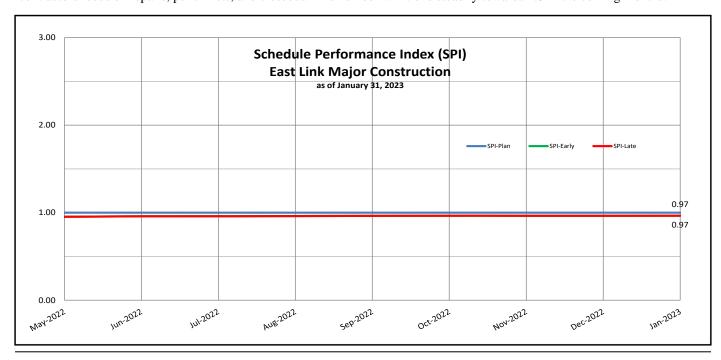
#### **Critical Path Analysis**

The East Link critical path this month continues to run through track repair on E130, which is delaying E750 access to complete OCS and signal installation and systems integration testing.



#### **Schedule Performance Index**

The Schedule Performance Index (SPI) for East Link's Major Construction Packages (both early and late) is at 0.97 as contractors focus on repairs, punch lists, and closeout. This number will trend steadily towards 1.0 in the coming months.



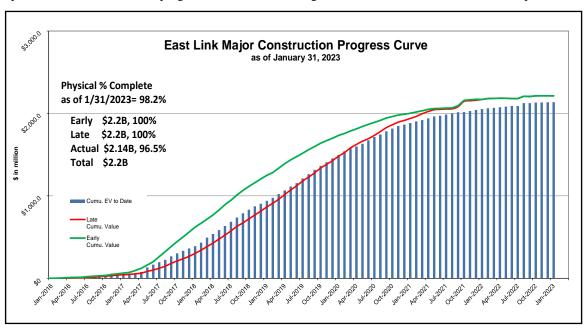
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#### **Major Construction Progress Curve**

The overall physical percent complete for East Link construction is 98.2%.

The percent complete analysis is based on a weighted measurement of 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 remaining work on civil contracts is limited to repairs and closeout.





E360 SR520 to Redmond Technology Station: Redmond Technology Station South Side Plaza Cleaning

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#### 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 easements and temporary easements for construction. These acquisitions resulted in owner and tenant residential and commercial relocations. Property acquisition and relocations are 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	

<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

#### **Community Engagement**

- Ongoing distribution of weekly construction alerts for maintenance of traffic activities for East Link.
- Ongoing engagement with individual property owners, members of the public and impacted neighbors on a variety of concerns including close-out activities, construction easements, traffic, access, and maintenance of traffic.
- Continued communications to reiterate the message of safety, primarily around phase 3 construction staging on Mercer Island (MI) Transit Integration site and held office hours at MI Community Center.
- January's focus included, but not limited to; discuss future collaboration with MI Chamber of Commerce; continued
  coordination with Coca-Cola Bottling Co and damaged ST fence; alerts on I-90 HOV on ramp closure to Bellevue Way; tree
  removal from Lake Bellevue Village; addressed Bellfield resident issues and distribution notice, which includes creation of
  a blog for livewire testing in Bellevue and Redmond.

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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.

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 due to quality issues and potential delay in transitioning over to Operations will require more labor resources.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	52.2	53.1	(0.9)
Consultants	97.5	118.1	(20.6)
TOTAL	149.7	171.2	(21.5)

<sup>\*</sup> An FTE is the equivalent of 1920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

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

Board Action	Description	Date
M2023-03	Authorizes the chief executive officer to (1) execute an agreement with the City of Bellevue to share costs for the installation of a firefighter access door in the Bellevue Downtown Tunnel, and (2) accept City of Bellevue's payment as a credit against a payment authorized under Motion No. M2023-04.	1/12/2023
M2023-04	Authorizes the chief executive officer to (1) execute an agreement with the cities of Bellevue, Mercer Island, and Redmond for Sound Transit to pay an agreed amount of \$1,527,303 for emergency responder training and equipment needed for the startup of the East Link and Downtown Redmond Link Extensions, and (2) transfer previously purchased emergency responder preparedness equipment.	1/12/2023
R2003-06	Authorizing the expenditure of up to \$6 million from the East Link project budget, to be funded by the East King subarea, to complete the work necessary to further develop the option to open a portion of the East Link Extension from South Bellevue Station to Redmond Technology Station (East Link Starter Line). This work will inform a final action to be considered by the Board in Fall 2023 on whether to open the East Link Starter Line for revenue service in Spring 2024	1/26/2023

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#### **Construction Safety**

Data/ Measure	January 2023	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	92	
Days Away From Work Cases	0	0	15	
Total Days Away From Work	0	0	1,337	
First Aid Cases	3	3	374	
Reported Near Mishaps	1	1	301	
Average Number of Employees on Worksite	198	-	-	
Total # of Hours (GC & Subs)	21,536	21,536	7,975,280	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00	2.31	
LTI Rate	0.00	0.00	0.38	
Recordable National Average		2.50		
LTI National Average	1.10			
Recordable WA State Average	4.40			
LTI WA State Average	2.00			

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.

**E135 Mercer Island Transit Integration:** Road improvements including a roundabout at N. Mercer Way and 77th Ave SE. to enhance bus/rail transfer and connect pedestrian and bicyclist to the Mercer Island light rail station. [Design-Bid-Build]

Status: Construction in progress.

**E320** South Bellevue: One (1) 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: Substantial Completion on August 29th, 2022. See following pages under Contract E320.

**E330 Downtown Bellevue Tunnel:** Sequential Earth Method (SEM) tunneling along 110th Ave. NE in Downtown Bellevue. [Design-bid-build]

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

**E335 Downtown Bellevue to Spring District:** Four (4) 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 (1) Light Rail Station, aerial, and at-grade guideway from 124th Ave. NE to NE 20th. [Design-bid-build] *Status: Substantial Completion on September 30th, 2022. See following pages under Contract E340.* 

**E360 SR520 to Redmond Technology Station:** Two (2) Light Rail Stations; one (1) garage, one (1) pedestrian bridge; 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.



E130 Seattle to South Bellevue: Installing new nylon inserts, westbound on the floating bridge

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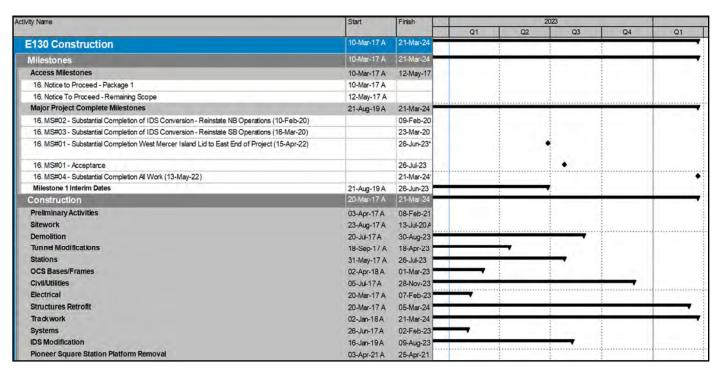
# Contract E130 - Seattle to South Bellevue Heavy Civil GC/CM

# **Current Progress**

- West Segment: Continue punch list, commissioning at Judkins Park Station; ongoing direct fixation plinth demolition and reconstruction.
- **Center Segment:** No work performed in January.
- East Segment: Continue punch list at Mercer Island Station; progress direct fixation plinth demolition at Mercer Island tunnel, Mercer Island Station and East Channel Bridge.

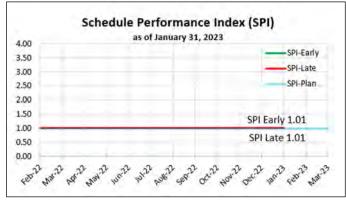
# **Schedule Summary**

The contractor's January update, presented below, forecasts a March 21, 2024 Substantial Completion date, 678 calendar days later than the contractual milestone date of May 13, 2022. The critical path to runs through plinth repair and nylon insert replacement on the floating bridge. The work is not progressing as quickly as the contractor had originally forecast.



#### **Schedule Performance Index**

E130 contract substantial completion date was planned for December 2020 and is currently anticipated to occur in Q1 2024. Remaining critical work to achieve substantial completion includes reconstruction of non-conforming DF track work and other NCR work. By definition, at substantial completion the schedule performance index is 1.0, because all planned work is completed.



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

- West Segment: Continue punch list, commissioning at Judkins Park Station; progressing direct fixation plinth demolition and plinth reconstruction.
- **Center Segment:** Start plinth demolition and nylon insert replacement.
- East Segment: Continue punch list, maintenance at Mercer Island Station; progressing direct fixation plinth demolition at Mercer Island Tunnel, Mercer Island Station, and East Channel Bridge. Start plinth reconstruction on the East Channel Bridge.

## **Closely Monitored Issues**

- Activity progress to reach Milestones 1 & 4, resulting in impacts to E750 work.
- NCR mitigation timeline for direct fixation track plinth reconstruction and nylon insert replacement.

# **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	\$42,970,048
Current Contract Value*	\$706,055,689
Total Actual Cost (Incurred to Date)	\$703,611,851
Percent Complete	97.5%
Authorized Contingency	\$56,660,541
Contingency Drawdown	\$42,970,048
Contingency Index	1.3

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



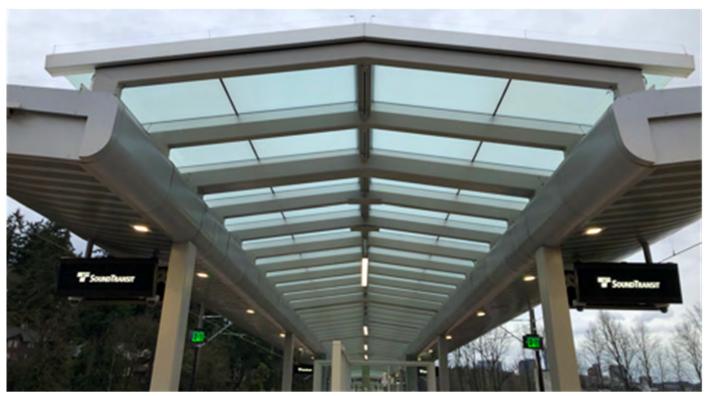
Formwork in place for plinth construction mock up

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# Contract E320 - South Bellevue - Substantially Complete

- E330 Contractor achieved Substantial Completion on August 29, 2022.
- Sound Transit to issue Final Acceptance upon acceptable completion of remaining punch list landscaping activities and track NCR work anticipated in September 2023.



# **Cost Summary**

Final Financial Status	Amount			
E320 Contractor - Shimmick / Parsons Joint Venture				
Original Contract Value	\$319,859,000			
Change Order Value	\$44,571,973			
Current Contract Value*	\$364,396,719			
Total Actual Cost (Incurred to Date)	\$364,287,731			
Percent Complete	99.78%			
Authorized Contingency	\$45,532,000			
Contingency Drawdown	\$44,571,973			
Contingency Index	1.0			



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<sup>\*</sup>Amount excludes Betterments & START



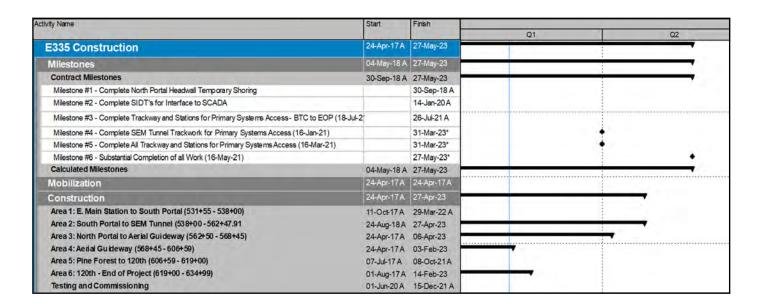
# Contract E335 – Bellevue to Spring District Heavy Civil GC/CM

# **Current Progress**

- Bellevue Downtown Station (BDS): continued elevator work, electrical work and fire alarm commissioning and fire alarm control panel (FACP) programming.
- Bellevue Downtown Tunnel (BDT): conduit and wire install for firefighter access door and emergency ventilation system
  testing and commissioning.
- Wilburton Station: elevator inspection and punch list work.
- 120th Station: elevator inspection and punch list work.
- Sitewide continued punch list, landscaping and site cleaning.

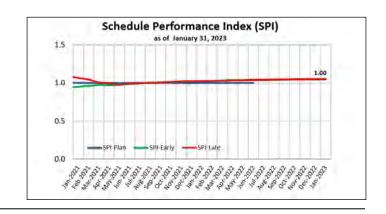
## **Schedule Summary**

The January update forecasts a May 27, 2023, Substantial Completion Date, 741 calendar days later than the contractual milestone date of May 16, 2021. Within the E335 contract schedule, the critical path is driven by CNWD 432, which directed the contractor to install a firefighter access door in the BDT. Follow-on work by the E750 systems contract is not affected.



#### **Schedule Performance Index**

E335 contract substantial completion date was planned for May 2021 and is currently anticipated to occur in Q2 2023. Remaining work to achieve substantial completion includes testing and commissioning of BDS and the emergency ventilation fans in the BDT. By definition, at substantial completion the schedule performance index is 1.0. All planned work is completed.



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

- Continue L&I elevator and escalator inspection at BDS.
- Continue Bellevue Tunnel testing and commissioning of the emergency ventilation systems.
- Punch list work and general cleaning continues at Bellevue Downton and Wilburton Stations.

## **Closely Monitored Issues**

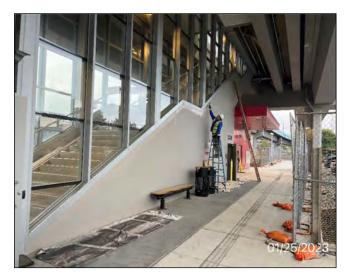
- Testing and commissioning of emergency ventilation system in Bellevue Tunnel.
- Punch list work at BDS.
- Completion of the safety certifiable paperwork.
- Revised AMMMR package submitted to City of Bellevue in order to resolve some electrical issues for the Bellevue Station and Tunnel. The electrical permit has been approved for temporarily powering the smoke control panel for testing purposes. Final review has been pushed out due to supply issues for needed parts.



E335 Aerial Guideway Looking West to Downtown Bellevue

#### **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	\$27,684,140				
Current Contract Value	\$421,181,009				
Total Actual Cost (Incurred to Date)	\$417,464,834				
Percent Complete	99.79%				
Authorized Contingency	\$29,689,911				
Contingency Drawdown	\$27,382,799				
Contingency Index	1.1				



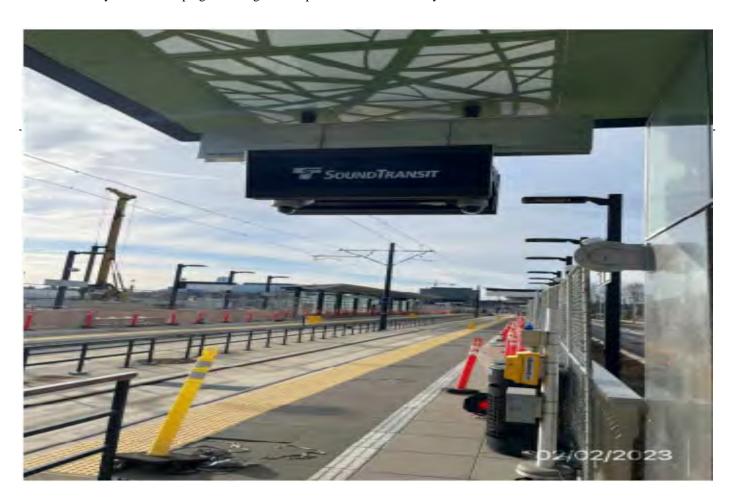
Painting East Side of Stair at Wilburton Station

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# Contract E340 - Bel-Red—Substantially Complete

- E340 Contractor achieved Substantial Completion on Sep. 30, 2022
- Working on punch list items.
- Preliminary final landscaping and mitigation inspection held on February 2.



# **Cost Summary**

Present Financial Status	Amount
E340 Contractor – Max J Kuney	
Original Contract Value	\$93,170,012
Change Order Value	\$7,875,768
Current Contract Value	\$101,045,780
Total Actual Cost (Incurred to Date)	\$99,707,630
Percent Complete	99.62%
Authorized Contingency	\$14,317,000
Contingency Drawdown	\$7,875,768
Contingency Index	1.81



E-340 JB Landscaping looking West STA 670+00

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

# **Current Progress**

- Continued MEPF commissioning for the Redmond Technology Station (RTS) garage.
- Completed traffic overlay for the parking decks of the RTS garage.
- Continued landscaping work at RTS.
- Completed specialties installation at RTS garage.
- Continued punch list, NCR, and close-out documentation for all sites.

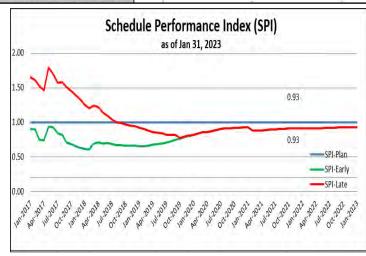
### **Schedule Summary**

The January update forecasts a June 14, 2023, Substantial Completion date, 1048 calendar days later than the contractual milestone date of July 31, 2020. The critical path is to replace non-conforming electrical panel enclosures at Overlake Village Station. The E750 systems contractor has been granted access to all work areas.

ctivity Name	Start	Finish		2023
			Q1	Q2
E360 Construction	13-Jul-16 A	15-Jun-23		7
Base Contract	13-Jul-16 A	15-Jun-23		<b>-</b>
Design	13-Jul-16 A	11-May-21 A		
Construction	13-Jul-16 A	15-Jun-23		<del></del> 1
General	13-Jul-16 A	14-Jun-23		<del></del> -
Project Milestones	13-Jul-16 A	14-Jun-23		<del></del>
Notice to Proceed	13-Jul-16 A			
Civil/Systems 100% Design Submittal (NTP+300d) (09-May-2017)		10-Apr-17 A		
Milestone 3A for E750 Work (0 3-Feb-2020)		06-Mar-20 A		
Milestone 3B Substantial Completion (31-Jul-2020)	m / 90 10	14-Jun-23*		•
WA #1 - Track Slab Guideway	22-May-17 A	08-Dec-20 A		
WA #2 - Aerial Guide way	01-Jun-17 A	20-Nov-20 A		
WA #3 - Ballasted Guideway Block #1	01-May-17 A	29-Sep-20 A		
WA #4 - Overlake Village Station	14-Jul-16 A	15-May-23		
WA #5 - Ballasted Guideway Block #2	15-Aug-17 A	23-Jul-21 A		
WA #6 - Overlake Transit Center	01-May-17 A	25-Apr-23		<del></del>
WA #7 - OVS Pedestrian Bridge	09-Jul-18 A	18-Aug-21 A		
WA #8 - OTC Pedestrian Bridge	10-Aug-20 A	15-Jun-23		
Change Orders	24-Jul-19 A	07-Mar-23		
PCO188/ NCR090 - Garage Beam Cracking	24-Jul-19 A	07-Mar-23		-1

#### **Schedule Performance Index**

E360 contract substantial completion date was planned for July 2020 and is currently anticipated to occur in Q2 2023. Remaining work to achieve substantial completion includes completing the garage work, landscaping and MEPF commissioning at RTS, as well as punch list items for all sites. By definition, at substantial completion the schedule performance index is 1.0, which denotes all planned work is completed.



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

- Complete MEPF commissioning for affected areas of the RTS garage.
- Complete landscaping work at RTS.
- Continue punch list, NCR, and close-out documentation for all sites.

# **Closely Monitored Issues**

• Closeout work for completion and turnover of all sites.

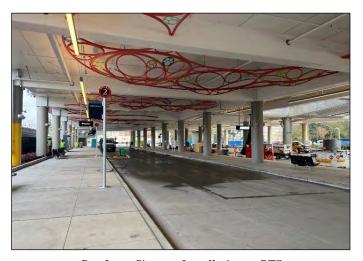
## **E360 Construction Work Areas**



# **Cost Summary**

Present Financial Status	Amount
E360 Contractor— Kiewit-Hoffman	
Original Contract Value	\$225,336,088
Change Order Value	\$8,256,267
Current Contract Value	\$233,592,355
Total Actual Cost (Incurred to Date)	\$217,135,648
Percent Complete	97.30%
Authorized Contingency	\$22,533,609
Contingency Drawdown	\$8,256,267
Contingency Index	2.7





Bus Loop Signage Installation at RTS

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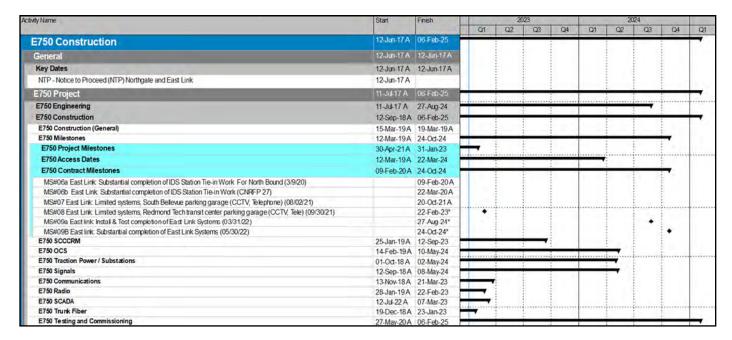
# Contract E750 - Systems Heavy Civil GC/CM

# **Current Progress**

- Ongoing coordination meetings for interface and access points with the civil contracts.
- Communication testing and installation of equipment continues along the alignment from E130 to E360 civil segments.
- Installation of signal cable and signal equipment testing continues along the alignment from E130 to E360 civil segments.
- Continued live wiring testing between South Bellevue and Redmond Technology Stations.

### **Schedule Summary**

The December update projects an October 24, 2024, Substantial Completion Date, 878 calendar days later than the contractual milestone date of May 30, 2022. As of the time of this report, a January update has not yet been submitted by the contractor. The critical path for this contract is driven by track handover from the E130 contractor, which is significantly delayed.



#### **Schedule Performance Index**

Performance is for December 2022 as January 2023 has not been submitted. The SPI-Early is 0.89 and SPI-Late is 0.89. The SPI index indicates the contractor is behind early/late planned work compared to the baseline plans.

The lagging is due to delayed access to civil segments, primarily within E130 and access. The ELE team continues to monitor and evaluating various mitigation options should the late plans continue to slip further.



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

- 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.
- Continued live wiring and train control signal systems testing between South Bellevue and Redmond Technology Stations.

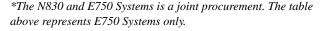
## **Closely Monitored Issues**

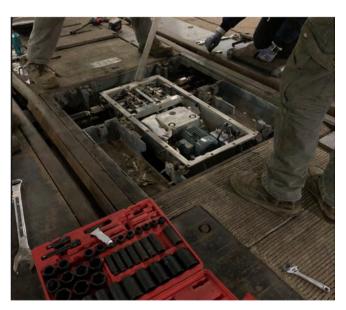
- Systems integration testing between South Bellevue Stations
- Procurement of the pedestrian crossing enhancement hardware and installation.
- Procurement and installation of signal system changes needed to convert South Bellevue Station to a terminus for the East Link Starter Line.
- Delivery and testing of the PIMS software.



# **Cost Summary**

Present Financial Status	Amount				
E750 Contractor - Mass Electric Construction Co.					
Original Contract Value	\$255,768,128				
Change Order Value	\$7,615,895				
Current Contract Value	\$263,384,023				
Total Actual Cost (Incurred to Date)	\$236,101,537				
Percent Complete	94%				
Authorized Contingency	\$12,788,406				
Contingency Drawdown	\$7,615,895				
Contingency Index	1.63				





Testing switch machine equipment near International District 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** \$197 Million (Project Development—

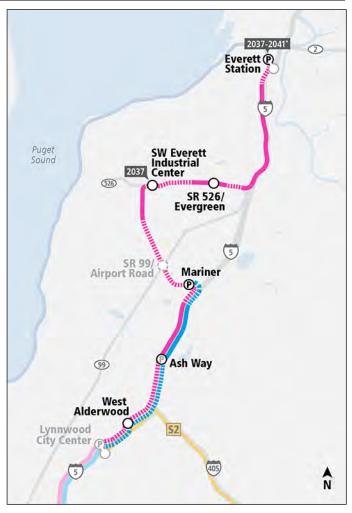
Phase 1 Alternatives Development)

Schedule Target Dates:

SW Everett Industrial Station, 2037

Everett Station, 2037

Parking at Mariner & Everett, 2046



Map of Everett Link Extension

# **Key Project Activities**

- Initiated SEPA EIS scoping and public comment period, open January 23 through March 10.
- Held the sixth meeting of the Community Advisory Group to review Level 2 evaluation findings.
- Held the seventh meeting of the Elected Leadership Group to review Level 2 evaluation findings.
- Continued monthly meetings with FTA.
- Coordinated with partner agencies including City of Lynnwood, City of Everett, Snohomish County, 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 \$9M was added to the project to fund right-of-way acquisition. The current Authorized Project Allocation is for completion of preliminary engineering. In January 2023, \$1.1M 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	\$33.8	\$6.1	\$5.9	\$33.8	\$0.0
Preliminary Engineering	\$128.5	\$17.5	\$14.8	\$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	\$0.2	\$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	\$20.1	\$0.3	\$0.3	\$20.1	\$0.0
Total	\$196.6	\$25.0	\$21.8	\$196.6	\$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	\$20.1	\$0.3	\$0.3	\$20.1	\$0.0
80 Professional Services	\$161.3	\$24.1	\$20.9	\$161.3	\$0.0
90 Unallocated Contingency	\$15.7	\$0.0	\$0.0	\$15.7	\$0.0
Total (10 - 90)	\$196.6	\$25.0	\$21.8	\$196.6	\$0.0

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

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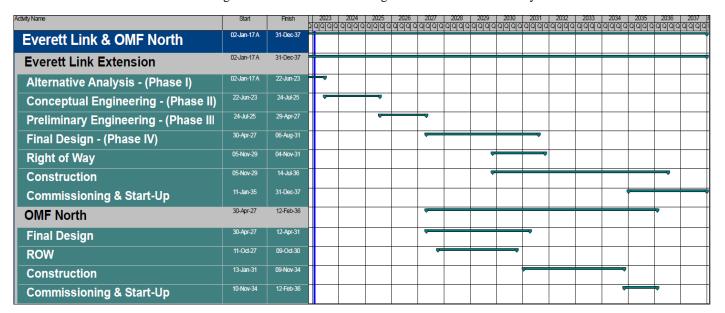
# **Risk Management**

The following are the top cost and schedule project risks:

- Emerging schedule delay risk due to confirming environmental review process with third parties.
- Potential risks associated with engineering challenges over lengthy and varied geography and limited design yet to be investigated. Further design as project advances.
- Potential risks associated with real estate acquisition process and yet unknown ROW needs in early design.
- Potential risks associated with challenge of consensus with partners on site selection for OMF North.

# **Project Schedule**

Phase 1 work is maintaining the current schedule. Developing the scope of work for Phase 2 is nearing completion. Completion of Phase 1 work remains Q2 2023, with Board identification of a preferred alternative and other alternatives for study in environmental review. ST staff are currently evaluating the durations of both conceptual and final designs and will update the schedule based on the outcome of those efforts. Parking at Mariner and Everett retains a target date of 2046. The summary schedule shown reflects the current target dates for both the LRT alignment and the OMF facility.



### **Community Engagement**

- Launched the scoping online site, open January 23 through March 10, in English, Spanish, Russian and Korean.
- For scoping, sent out information via mail, email and media to the general public and community and agency partners.
- Hosted a table at the Mariner Library and at Snohomish County Black Heritage Committee's Martin Luther King Jr. Day march and rally to share project and agency information.
- Provided a project briefing to the Lowell Neighborhood Association.
- Continued coordination with Community Foundation of Snohomish County, Connect Casino Road, Futurewise, Housing Authority of Snohomish County, and Latino Educational Training Institute.
- Continued coordination with partner agencies including City of Lynnwood, City of Everett, Snohomish County and Community Transit regarding community engagement.

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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.

Variance between planned and actual FTE average is expected to continue through the first half of 2023, as Phase 2 to start in July 2023.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	22.1	17.5	4.6
Consultants	44.0	22.90	21.1
TOTAL	66.1	40.4	25.7

<sup>\*</sup> Effective Sept 2022, an FTE is the equivalent of 1920 hours. YTD performance FTE hours are divided by a monthly factor of 160.00.

## **Sound Transit Board Actions**

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

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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

(KDM), Star Lake (SL), and the Federal

Way Downtown (FWD)

Signals, traction power, and communications Systems

(SCADA)

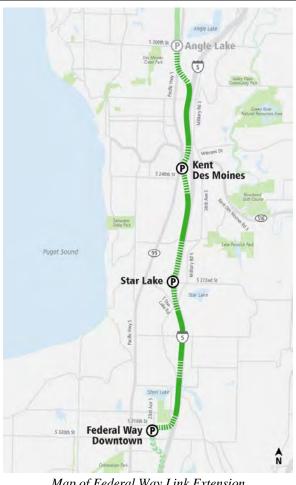
**Phase** Final Design/Construction

**Budget** \$2.45 Billion (ST Baseline September 2018)

Schedule Revenue Service: December 2024\*\*

(under evaluation due to Str C impact and to be

revised beyond this date)



Map of Federal Way Link Extension

# **Key Project Activities**

- F200 progress detail highlights are reflected on last two pages of the FWLE section and concrete work continues throughout the alignment.
- Design progressed on Structure C Long Span design with submittal of 100% tangent pile wall package, 90% bridge package. Began temporary work at Structure C including access road and drill pad installation. \*\*Str C negotiations are underway for impacts that will likely influence a new RSD.
- Traffic mitigation design key activities are reflected in another section of this report.
- Project team continues coordinating utility relocations that are necessary in future station areas.
- Ongoing ROW acquisition and relocations continued related to Traffic Mitigation and F200 parcels.

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### **Project Cost Summary**

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

This period approximately \$110M was incurred, which includes accruals of unpaid monthly payments and a few Q4 2022 payments. Of which \$100M in the Construction phase comprised mainly for F200 contract [\$99.7M]. Construction Services phase reflects \$6.4M for DBPM contract. Right-of-Way \$0.9M and Third Party of \$1.5M. Remaining major expenditures reside in Preliminary Engineering, Third Party and Administration. Overall the project Estimate at Completion continues to reflect \$2.45B.

#### **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	\$45.6	\$44.7	\$96.5	\$0.0
Preliminary Engineering	\$46.5	\$46.1	\$45.6	\$45.3	\$46.1	\$0.0
Final Design	\$3.1	\$6.1	\$4.0	\$3.2	\$6.1	\$0.0
Construction Services	\$107.0	\$156.2	\$101.8	\$76.6	\$156.2	\$0.0
3rd Party Agreements	\$27.7	\$37.7	\$25.3	\$18.4	\$37.7	\$0.0
Construction	\$1,831.9	\$1,770.0	\$1,436.7	\$956.1	\$1,770.0	\$0.0
ROW	\$338.8	\$338.8	\$226.2	\$220.8	\$338.8	\$0.0
Total	\$2,451.5	\$2,451.5	\$1,885.2	\$1,365.1	\$2,451.5	\$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	\$523.0	\$155.2	\$405.1	\$261.2	\$512.7	-\$357.5
20 Stations	\$318.9	\$105.2	\$301.1	\$176.8	\$334.5	-\$229.3
30 Support Facilities	\$5.3	\$4.6	\$11.6	\$7.5	\$4.9	-\$0.4
40 Sitework & Special Conditions	\$558.4	\$1,169.0	\$480.5	\$324.5	\$574.0	\$595.0
50 Systems	\$153.8	\$49.6	\$124.5	\$77.7	\$152.2	-\$102.6
Construction Subtotal (10 - 50)	\$1,559.4	\$1,483.5	\$1,322.8	\$847.7	\$1,578.3	-\$94.9
60 Row, Land	\$341.6	\$338.8	\$226.2	\$220.8	\$338.8	\$0.0
70 Vehicles	\$1.8	\$1.8	\$0.0	\$0.0	\$1.8	\$0.0
80 Professional Services	\$370.7	\$398.0	\$336.2	\$296.7	\$303.2	\$94.9
90 Unallocated Contingency	\$178.1	\$229.5	\$0.0	\$0.0	\$229.5	\$0.0
Total (10 - 90)	\$2,451.5	\$2,451.5	\$1,885.2	\$1,365.1	\$2,451.5	\$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 FWLE project budget was baselined in September 2018 with a total contingency of \$549.9M. Additional contingency of \$460.0M (FTA P65 requirement in FFGA) is not reflected in the below contingency status. The current contingency balance is \$455.2M.

**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 overall AC was reduced slightly by \$0.02M due to a combination of adds and deducts regarding F200 executed change orders, allocated future contract contingency placeholder for F210, and added betterment reimbursement from WSDOT.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. During this period the UAC was reduced by \$15.6M for 2023 budget reallocations for scopes of work in Construction and Final Design phases.

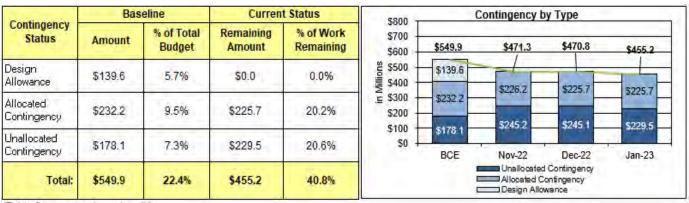
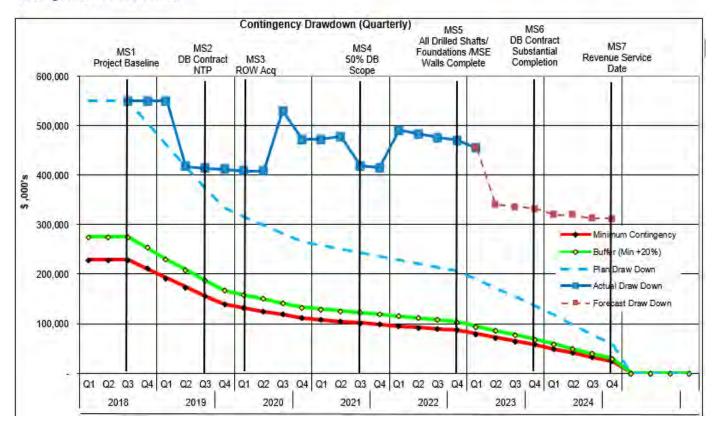


Table figures are shown in millions.



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# **Risk Management**

A quarterly risk register meeting occurred this period. Changes to the top project wide risks are below:

- F200 Contractors identified Structure C design solution will result in cost & schedule impacts to the contract and Milestone 5.
- The integration of additional requirements for facilities and/or systems (by ST and AHJs) could not only result in increased costs, but could also impact construction completion.
- PSE Fiber is required to provide continuous monitoring of power supply to FWLE TPSS sites. This additional fiber required by PSE, may impact construction schedule (MS#3) and potentially the project RSD.
- Wabtec staff are not available to support SCADA and PIMS deployment on the FWLE project, thus delaying Kiewit's completion and RSD.
- ROW possession and use (P&U) and acquisition suffer delays or legal challenges that prevent the parcel from being acquired before it is needed for construction, resulting in delays to the construction schedule.
- Known third party utility relocation may not occur as scheduled resulting in cost and schedule impacts to the project.
- The integration of additional scope by AHJs (e.g. betterments), could not only result in increased costs, but could also impact construction completion.
- The existing ST fiber-optic backbone might be insufficient to support the connection requirements of the project, resulting in cost and schedule impacts.
- Additional scope is identified at the end of construction (above current expectations and scope) resulting in cost and schedule impacts to the project.
- Design, ROW acquisition, and construction of traffic mitigation measures required per the ROD not completed by scheduled date 2024.





WA1.2 Installing Rail on Ties

WA1.2 Grading Ballast 1087

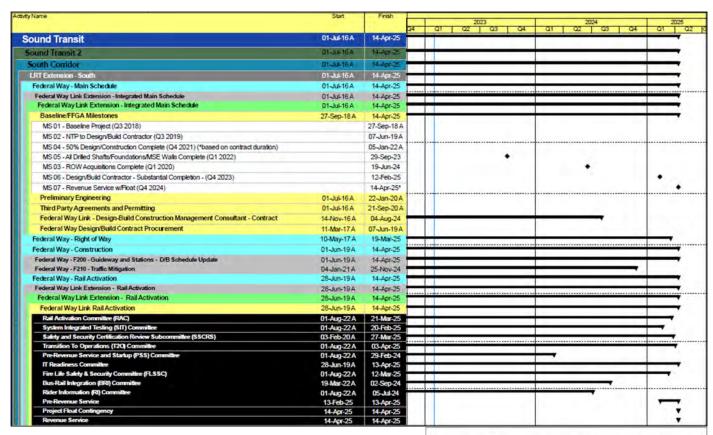
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### **Project Schedule**

The calculated weighted percent complete of the major construction contracts is 67.6%. The weighted percent complete and the graphics below do not account for the potential cost and schedule impact of F200 Structure C Long Span.

The January 2023 project schedule presented below is still under review. Right-of-Way acquisitions for F200 are nearly complete. F210 (traffic mitigation) properties are driving FFGA Milestone MS 03 – ROW Acquisitions Complete, which is trending to be finished by Q2 2024. The F210 ROW team has continued with appraisals for the needed properties for traffic mitigation. Next, the F210 Final-Designer has started working on the final geotechnical and wetland/critical areas reports. In addition, the F210 Final Designer continues work on drainage reports, the WSDOT channelization plan, 90% MEF documentation, and 100% drawings and specifications.

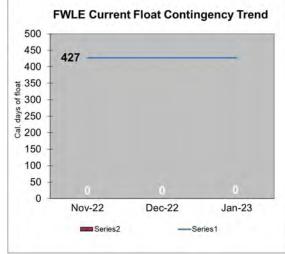


#### **Project Float**

Federal Way Link Extension was baselined with 427 days of project float contingency. Currently, the project is reporting zero days of project float contingency remaining. The decrease in project float contingency is caused by the continued impact of poor soil conditions at Structure C.

Sound Transit and the Design-Builder (DB) conducted several workshops in Q4 2022 to collaborate on how to best mitigate the impact of the Structure C delay. The DB has progressed critical design work such as the 100% drawings for the tangent pile walls, which is crucial to starting construction of the Structure C Long Span. Construction of the tangent pile wall is forecasted to start before the end of Q1 2023.

Note: Str. C negotiations are underway for impacts that will influence a new Revenue Service Date.



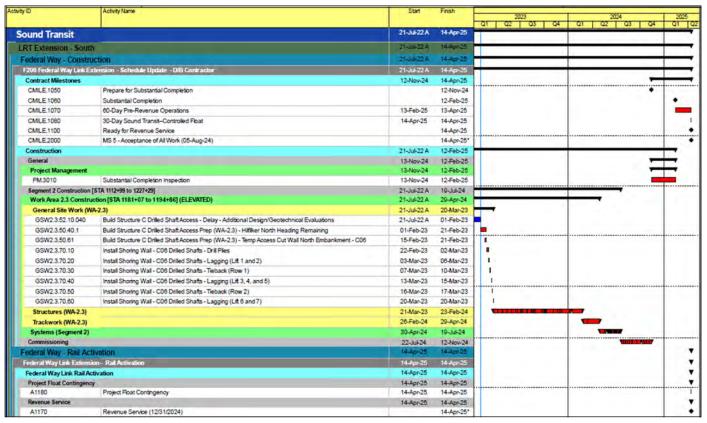
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### **Critical Path Analysis**

The critical path to revenue service commences with Structure C physical construction, which includes shoring walls for drill shafts, installation of drill shafts, columns, girder erections, diaphragms, deck pours, and installation of direct fixation track. Also, on the critical path at Segment 2 is OCS system installation, commissioning, system integration testing (SIT), substantial completion inspection, and pre-revenue service operations.

Note: Str. C negotiations are underway for impacts that will influence a new Revenue Service Date.



# **Traffic Mitigation Design**

#### **Key Traffic Mitigation Issues:**

- Revisions to FL-910 pushed out construction completion to mid Nov 2024.
- Zayo master agreement is being finalized and will be circulated for signatures.

# **Closely Monitored Issues**

- F210 ROW acquisition.
- Continued coordination on Kent stormwater pipe and PSE gas line along 272nd.

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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 easements 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		
275	371	438	387	444	437		

<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, in the case of FWLE 18 parcels added for traffic mitigation and 5 parcel added to board approved 4/1/2022.

# **Community Engagement**

- Held a Hot Cocoa Fest event at Camelot with about 90 attendees with both English and Spanish speakers at the event and the Kiewit for support.
- Continued outreach to Camelot Mobile homes affected by flooding at the end of December 2022 and along our alignments regarding tree removal and flood damage.
- Coordinated with businesses along 30th Avenue regarding January 2023's reconfiguration of traffic patterns.
- Coordinated landscaping restoration on 32nd Ave.
- Continued to build partners and foster relationships through near future sponsorships, i.e. Stormfest, Federal Way Touch- a- truck.



Photo of the hot Cocoa Fest at Camelot Square

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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 12.0 less the staffing plan for this period. DBPM Services is higher than plan this period while addressing Design-Build contractor activities involving change management, minor design and major construction oversight that involves drilled shafts, guideway, parking garages, stations, utility work, and other civil work (including Structure C soil issues). ST staff is 13.3 under plan, however there are a few vacancies in the project that are in the process of being filled.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	46.8	33.5	13.3			
Consultants	77.0	78.3	(1.3)			
TOTAL	123.8	111.8	12.0			
* An FTE is the equivalent of 1.920 hours. YTD performance FTE hours are divided by a monthly factor of 160.						

## **Sound Transit Board Actions**

Board Action	Description	Date
	None to report this period.	

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# **Construction Safety**

Data/ Measure	January 2023	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	14	
Days Away From Work Cases	0	0	6	
Total Days Away From Work	31	31	59	
First Aid Cases	2	2	49	
Reported Near Mishaps	1	1	14	
Average Number of Employees on Worksite	554	-	-	
Total # of Hours (GC & Subs)	92,139	92,139	1,860,808	
OSHA Incident Rates	Monthly Average	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00	1.50	
Lost Time Injury (LTI) Rate	0.00	0.00	0.64	
Recordable National Average	e National Average 2.50			
LTI National Average	1.10			
Recordable WA State Average	4.40			
LTI WA State Average	2.00			

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**

Status at the close of January 2023, the baseline schedule confirmed completion: Contract total = 67.6%, Construction = 61.8%, and Design = 97.4%. Significant construction progress occurred on all segments in relation to: Guideway (track construction, systems duct bank, sub-ballast, superstructure and substructure). Construction progressed for KDM Station and Garage, Star Lake Station & Garage and Federal Way Downtown (FWD) garage, station, and End of Line Facility (EOL).

#### Design:

• DB submitted 90/100% design package. DBPM reviewing 90-100% design package.

#### Construction:

• Guideway substructure and superstructure construction continued in (all Segments except 2.3): Extensive substructure and superstructure in work areas 1.1, 1.3, 2.4, 3.4, and 3.8. Structure C progress table will be shown next period.

Details	Progress	Details	Progress	Details	Progress	Details	Progress	Details	Progress	Details	Progress
Drilled Shafts	100%	Columns	100%	Caps and Straddles	100%	Girder Erection	100%	Abutments	100%	Decks	100%

- Track: Corridor Wide: Direct fixed track plinths =35%, Sub Ballast = 37%, Ballast = 27%, Ties =27%, Slabs and Matts = 49%, Rails = 15%. WA 1.1 Skeletonize track. WA 1.2 Ballasted track. WA 1.3 Final align. WA 2.1 skeletonize track and form plinths.
- Noise wall, MSE wall, and CIP wall construction along the alignment.
- TPSS S02: Dry utilities.
- TPSS S03: Footing and wall work.
- KDM Station (41.9% complete): KDM Garage (68.1% complete).
- Structure C: Build MSE walls, C01 abutment and lower access road construction for C05 and C06.
- Star Lake Station (16.2% complete): Platform slabs, elevator and mechanical room construction. Plumbing installations.
- Star Lake Garage (52.4% complete): PT closure Strips, PT deck, wall and column work.
- FWD and EOL (26.9% complete) and FWD Garage modification (15.3% complete) continues.
- Milestone 2: SR99 Bridge pending acceptance. Milestone 3: TPSS S02 install and backfill underground conduits.



WA3.8 FWD Steel Stair Installation



WA1.2 Concrete Tie Placement

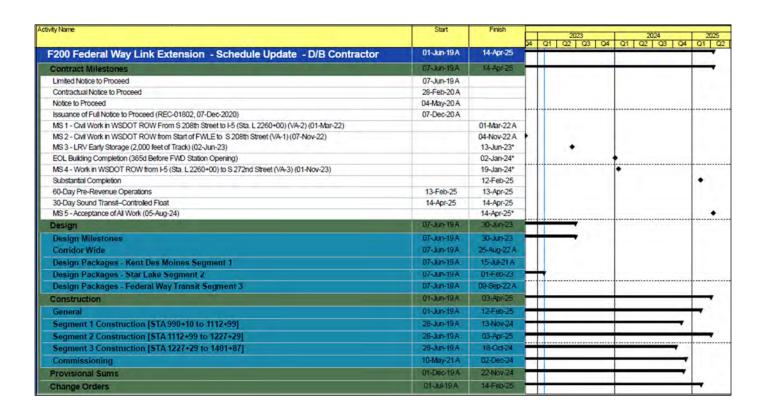
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### **Schedule Summary**

The January 2023 F200 schedule is pending review and shall conclude soon. The Design-Builder (DB) reported contract Milestone #2 was achieved by 04-Nov-22. Milestone #3 is currently trending eleven days after the contract required date of 02-Jun-22.

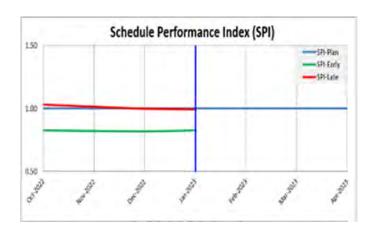
Both Milestone #4 and Milestone #5 (Acceptance of All Work, including 60 days for Pre-Revenue Service) are delayed due to poor soil conditions at Structure C. The DB completed the 100% design for the Structure C Long Span. The team is now working towards completing IFC (Issue for Construction) documents and obtaining the necessary permits.



#### **Schedule Performance Index**

For the January reporting period, the Early SPI is 0.82 and Late SPI is 0.99 and is calculated based on the EV report this period which is still under review.

Kiewit performance this period continues to reflect slow progress due to several issues, Station and Garages and most notably Structure C differing site conditions that is driving the critical path.



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

#### Design:

 Structure C: DB plans to submit 90-100% long span bridge design.

#### Construction:

- Guideway superstructure construction is wrapping up, drainage, curb and finish work remains.
- Trackwork: Guideway trackwork at Structure A and B: skeletonize track, form plinths, final alignment.
- Ballasted Trackwork WA 1.2: Set ties, lay and clip. Final ballast and surface alignment.
- TPSS S02: TPSS Deliver and Set, mandrel conduits and buildout temp power.
- TPSS S03: Wall work and installed conduits.
- TPSS S05: Build MSE wall.
- KDM Garage: Extensive work on garage exterior and interior. Plumbing installations.
- KDM Station: Extensive work on station north and south plaza and platform levels.
- Midway landfill: OCS grounding and wall work.
- Star Lake Garage: Closures pour-backs, shear walls and columns. L4-L5 PT decks.
- Structure C: Southern cut walls access road to C05, C06 and C07. Tangent pile rebar.

#### **Construction** (continued):

- Star Lake Station: Platform slab, bridge deck and retaining wall work. Install elevator steel and CIP stairs. Star Lake Garage: Closure Strips (Pour-backs), Shear walls, columns and PT decks.
- Star Lake Ancillary Building: Install roof system, frame interior walls and MEPF.
- FWD Garage: PT deck, wall and column work.
- FWD Station: Extensive work on both North and South surface and platform levels.
- Milestone 2: SR99 work to be evaluated by ST and RE.
- Milestone 3: Grounding grid and testing. Install housing and major equipment. Wire pulls and terminations.
   Testing, and verification. MS 3 – LRV Early Storage.

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

 Structure C: DB is progressing long span design. ST and DB holding schedule workshops. Construction work has resumed in WA 2.3. ST / DB presented a timeline of the Structure C events to the DRB on 1/11/2023. ST/DBPM issued letter to DB requesting to postpone the DRB and exhaust negotiations on the project level. ST currently forming language for a unilateral change order to allow payment method for Structure C construction while negotiations proceed.

# **Cost Summary**

Present Financial Status	Amount						
F200 Contractor - Kiewit Infrastructure West Co							
Original Contract Value	\$1,285,200,000						
Change Order Value	\$167,612,940						
Current Contract Value	\$1,452,812,940						
Total Actual Cost (Incurred to Date)	\$937,224,463						
Percent Complete	67.6%						
Authorized Contingency + Add'l Ctg	\$248,297,519						
Contingency Drawdown	\$167,612,940						
*Contingency Index *Excludes ATC/NTD	1.49						



WA2.4 Star Lake Station Footing Rebar Placement

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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.

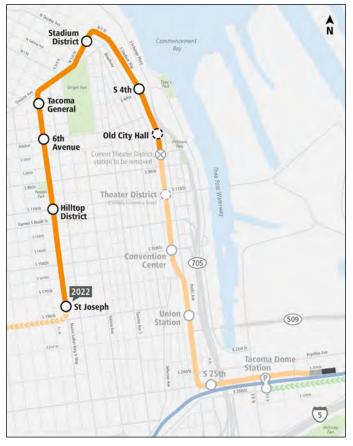
Systems Expansion of the Operations and

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

Phase Construction

**Budget** \$282.7 Million (Increased February 2022)

**Schedule** Revenue Service: Under review



Map of Hilltop Tacoma Link Extension

# **Key Project Activities**

Final Design: Design Consultant continued design services during construction.

**Construction:** The contractor is nearing completion of civil and systems work. Systems Integration Testing is underway.

- **Heading 1**: Performed track slab punchlist items.
- **Heading 2**: Installed signage panels and handrails at Stadium District Station.
- **Heading 3:** Performed track slab punchlist items. Completed installation of survey monuments.
- **OMF:** MS#1 complete.

**Testing and Commissioning:** Performed SIT for TPSS overcurrent and LRV pull away tests.

# **Closely Monitored Issues**

- Staff continues to monitor LRV conditional acceptance timelines to support pre-revenue service.
- Staff continues to assist contractor planning and execution efforts for required systems tests and support agency integrated testing effort.
- Delays to system integration test schedule associated with track quality issues will delay RSD from Q1 to Q3 2023.

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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 \$1.9M was incurred. Approximately half the expenditures were in the construction phase.

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

Project Phase	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$28.9	\$24.3	\$24.0	\$28.9	\$0.0
Preliminary Engineering	\$5.6	\$5.6	\$5.6	\$5.6	\$0.0
Final Design	\$16.2	\$16.0	\$15.5	\$16.2	\$0.0
Construction Services	\$16.7	\$15.4	\$14.7	\$16.7	\$0.0
Third Party Agreements	\$1.4	\$1.3	\$1.0	\$1.4	\$0.0
Construction	\$172.0	\$161.8	\$159.7	\$172.0	\$0.0
Vehicles	\$40.1	\$38.2	\$34.2	\$40.1	\$0.0
ROW	\$1.9	\$1.9	\$1.9	\$1.9	\$0.0
Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$282.7	\$264.4	\$256.6	\$282.7	\$0.0

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

SCC Element	Baseline Budget	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Adopted Budget vs. EFC
10 Guideway & Track	\$32.9	\$31.0	\$30.6	\$32.9	\$0.0
20 Stations	\$3.7	\$3.5	\$3.4	\$3.7	\$0.0
30 Support Facilities	\$43.7	\$41.1	\$40.6	\$43.7	\$0.0
40 Sitework & Special Conditions	\$54.9	\$51.7	\$51.1	\$55.0	\$0.1
50 Systems	\$36.7	\$34.5	\$34.1	\$36.7	\$0.0
Construction Subtotal (10 - 50)	\$171.9	\$161.8	\$159.7	\$172.0	\$0.1
60 ROW, Land	\$1.8	\$1.9	\$1.9	\$1.9	\$0.2
60 Vehicles	\$39.8	\$38.2	\$34.2	\$40.1	\$0.3
80 Professional Services	\$67.4	\$62.5	\$60.7	\$68.8	\$1.4
90 Unallocated Contingency	\$2.0	\$0.0	\$0.0	\$0.0	-\$2.0
Total (10 - 90)	\$282.7	\$264.4	\$256.6	\$282.7	\$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**

The project was baselined in September 2017 with a total contingency of \$33.8M. Since baselining, there were drawdowns on AC and UAC for Tacoma LRV, T100 construction, Design Services During Construction and Construction Management services contracts. The baseline contingency levels were insufficient and required an additional \$35.4M which was approved by the ST Board in June 2020. A further \$30M was approved by the ST Board in February 2022.

**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 did not change meaningfully. The current balance is \$9.8M.

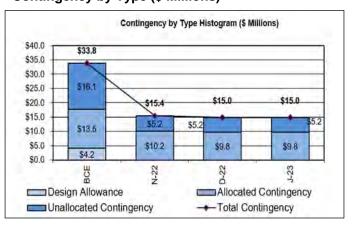
**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC balance was unchanged this period.

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

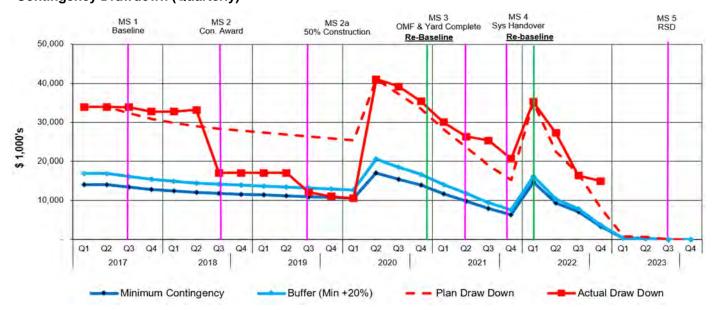
_	Base	eline	Re-Baseline		
Туре	Amount	% of Total	Amount	% of Total	
Design Allowance	\$4.2	2.2%	\$0.0	0.0%	
Allocated Contingency	\$13.5	6.8%	\$9.8	37.4%	
Unallocated Contingency	\$16.1	8.2%	\$5.2	19.8%	
Total	\$33.8	17.2%	\$15.0	57.3%	

#### Table figures are shown in millions.

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



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



Contingency Drawdown as of January 31, 2023

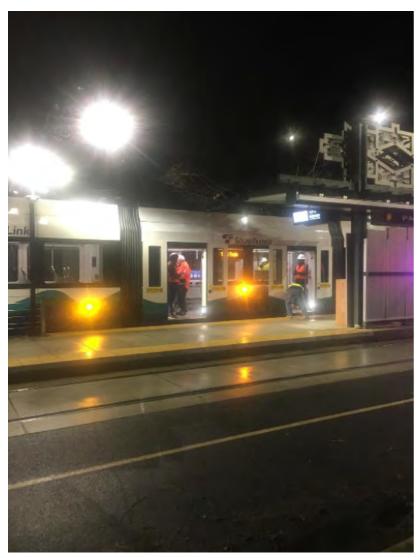
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# **Risk Management**

The following are the top project wide risks:

- The T100 contractor may submit a cumulative impact claim that exceeds available budget.
- LRV manufacturer may not submit completed documentation on time and thereby delay conditional acceptance of vehicles.
- Delays in commissioning could impact training capacity and delay revenue service.
- Lack of detail in T100 construction schedule may impede adequate resource planning for rail activation, safety certification, System Integration Testing (SIT), and vehicle testing and commissioning.
- LRV testing complications may delay conditional acceptance.



Systems Integration LRV Pull Away Tests in progress

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# **Project Schedule**

The project completion schedule was updated through the end of January 2023 and is 99.4% percent physically complete.

**Revenue Service:** Current forecast indicates revenue service in Q3 2023, and the exact details of the RSD will be identified at the Readiness Review Meeting #2 which is scheduled for mid-April 2023 and is before the project starts simulated service.

BEC LRV: Continuing on-site routing testing of LRVs 2-5. Continuing qualification tests and field modifications on LRV 1.

**T100:** The contractor's January 2023 CPM schedule is under review. Sound Transit estimates T100 substantial completion in April 2023.

**System Integration Testing :** SIT continues and uses both SKODA and BEC LRVs. Completed tests include Test 304 TPSS overcurrent and LRV Pull Away.

**Rail Activation**: The rail activation schedule includes safety certification activities, maintenance training and Operations familiarization, qualifications and certifications required for the start of the pre-revenue.

Quantitative Risk Analysis (QRA) The last risk review meeting was held on December 20, 2022.

Name	Start	Finish	2023		
			Q1	Q2	Q3
TLE - Project Completion- Jan 2023 Current	02-Feb-15 A	28-Jul-23		1	
Project Milestones	28-Sep-17 A	28-Jul-23			
MS-01 - Project Baseline		28-Sep-17 A			
MS-02 - Construction Contract Award		27-Aug-18 A			
MS-03 - Submit Design & Delivery Schedule for the Automatice Vehicle Locator		21-Nov-18 A			
BEC - LRV Delivered Car 1 to ST (Contractual Date Jun 4 2020)		22-Mar-22 A			
BEC - LRV Delivered Car 2 to ST (Contractual Date Aug 4 2020)		10-May-22 A			
MS-01 - OMF & Yard Complete (Contractual Date Nov 21 2020)		22-May-22 A			
T100 - 9th and Commerce Cutover Start		01-Aug-22 A			
BEC - LRV Delivered Car 3 to ST (Contractual Date Sep 4 2020)		26-Aug-22 A			i
BEC - LRV Delivered Car 4 to ST (Contractual Date Oct 4 2020)		30-Sep-22 A	The state of the s		
BEC - LRV Delivered Car 5 to ST (Contractual Date Nov 4 2020)		08-Nov-22 A			1
MS-02 - Substantial Completion of all work (Contractual Date May 29 2021)		19-Apr-23		•	
MS-05 Revenue Service Date (FTA Grant RSD Sept 19 2023)		28-Jul-23			•
Preliminary Engineering	02-Feb-15 A	04-Nov-16 A			
Final Design	04-Jan-16 A	31-May-18 A			
ROW	01-Oct-15A	11-Jan-19A			
Owner Furnished Materials / Equipment Procurement	02-Oct-17 A	07-Mar-23	_		
Light Rail Vehicles (Qty 5)	11-Od-16A	19-May-23	_	<del></del>	
Construction	23-Jan-18 A	14-Jun-23		+	
Rail Grinding	17-Jan-23 A	06-Apr-23		<del></del>	***************************************
Track Drain Work	01-Sep-22A	17-Mar-23	_		
SIT	01-Dec-21 A	30-Mar-23	_	→	
OMF AND YARD	01-Dec-21 A	06-Jan-22 A			
9th Street Cutover - Pre Cut Over Requirements SIT	11-Jul-22 A	12-Jul-22 A			
9th Street Cutover - Cut Over SIT	23-Oct-22 A	23-Oct-22 A			
MAINLINE SIT	12-Jan-22 A	30-Mar-23	_	<del></del>	1
Pre-Revenue Service	08-Apr-23	07-Jul-23		·	-
Revenue Service	28-Jul-23	28-Jul-23			▼
Forecast Revenue Service Begins (FTA Grant RSD Sept 18 ,2023)		28-Jul-23			•
NCRs	31-Oct-22 A	07-Mar-23			
HTLE Rail Activation Jan 2023 Current	02-Jan-20 A	28-Jul-23	_		
Project Milestones	02-Jan-20 A	10-Oct-22A			
BEC LRVs	30-Oct-20 A	14-Jul-23	-	+	
Mainline	20-Jan-20 A	26-Jul-23		+	<del></del>
Revenue Service	28-Jul-23	28-Jul-23		···· <del>·</del>	
RS - Specific Passenger Readiness for Opening Day		28-Jul-23*			

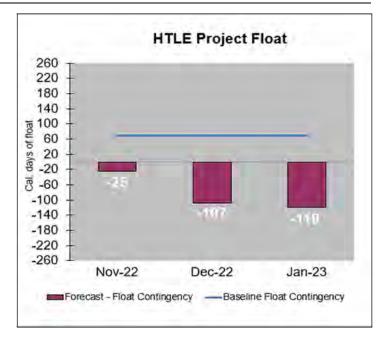
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## **Project Float**

There is zero float remaining on the project, necessitating a revision of the revenue service date (RSD). Staff forecasts RSD between late July and early September 2023.

The January update indicates four of the LRVs will be conditionally accepted by May 17, 2023, which will allow the start of simulated service.

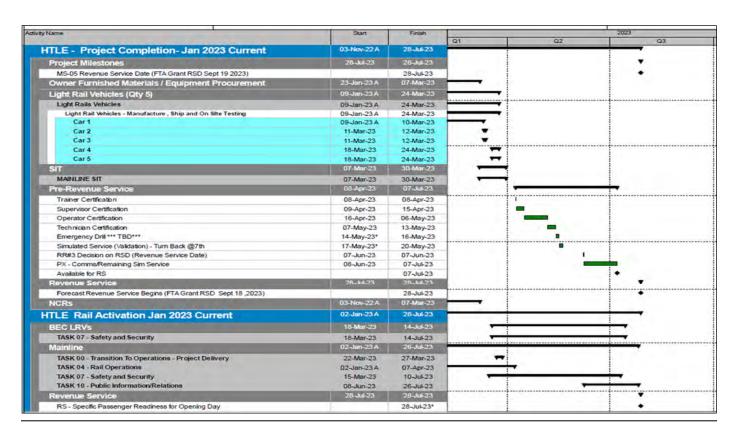


## **Critical Path Analysis**

The project completion schedule contains multiple critical paths.

The main critical path pertains to LRV on-site testing, burn-in and conditional acceptance of LRVs 1–4, required for the start of simulated service.

The near-critical path is the completion of System Integration Tests, safety certification and maintenance training, which is required to start simulated service.



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# **Community Engagement**

- Held weekly meeting with MultiCare representatives to go over construction impacts and coordination.
- Sent regular construction traffic control updates to the HTLE email list, HTLE Facebook page, and stakeholder email list.
- Provided a project update at the Hilltop Business Association at their regular monthly meeting.
- Provided a project update to the City of Tacoma's Links to Opportunity project staff.

# **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.

ST staff variance reflects additional staff required due to adjusted RSD. ST will monitor project needs and adjust FTE levels as needed. Consultant FTEs are higher than planned as the yearly plan forecasts reductions in future months.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	11.0	13.8	(2.8)			
Consultants	9.7	16.8	(7.1)			
TOTAL	20.7	30.6	(9.9)			
* An FTE is the equivalent of 1920 hours. YTD performance FTE hours are divided by a monthly factor of 160.						

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

Board Action	Description	Date
	None this period.	

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# **Construction Safety**

Data/ Measure	January 2023	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	15	
Days Away From Work Cases	0	0	1	
Total Days Away From Work	0	0	0	
First Aid Cases	0	0	27	
Reported Near Mishaps	0	0	70	
Average Number of Employees on Worksite	25	-	-	
Total # of Hours (GC & Subs)	5,284	5,284	463,803	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00		
Lost Time Injury (LTI) Rate	0.00	0.00	0.43	
Recordable National Average	2.50			
LTI National Average	1.10			
Recordable WA State Average	4.40			
LTI WA State Average	2.00			

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**

- **Heading 1:** Finished installing extruded curb on Commerce Street. Poured half of the Broadway restoration road panels and grouted OCS foundations on the east side of Stadium Way.
- **Heading 2**: Finished removing light pole and traffic foundations on south side of Division Ave. Raised utility lids on northside of N. 2nd Street and N. Tacoma Ave. Finished installing aluminum signage panels and grab rails at Stadium station.
- **Heading 3:** Finished installing survey monuments at the intersection along Heading 3. Removed light pole and signal foundations at MLK and Earnest Brazill. Extended curb at MLK and S. 10<sup>th</sup> Street.
- General: Executed SIT 304A Pull Away test with the Brookville LRVs 2-4.

# **Schedule Summary**

The T100 January 2023 CPM schedule is under review. The contractor reports Milestone #2 Substantial Completion in late May 2023 but ST estimates that substantial completion will be in April 2023. The contractor's schedule includes remaining punch list items which do not affect the completion of Milestone #2 Substantial Completion or the start of pre-revenue service but are required to be complete before acceptance.

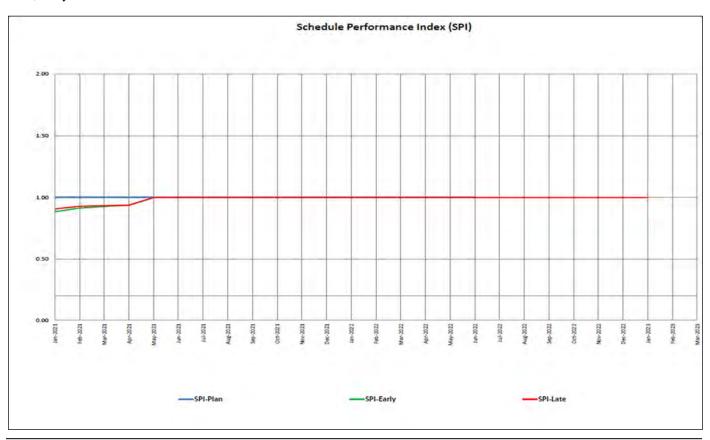
tivity Name	Start	Finish	2023	
			01	02
T100 Hilltop Tacoma Link Extension Schedule January Update	31-May-18 A	20-May-23		7
Ta coma Links Baseline Schedule	31-May-18 A	20-May-23		
Milestones	29-Jun-18A	20-May-23		_
Jdb Mile stones	29-Jun-18A	20-May-23		
Contractual Miles tones	21-Nov-18 A	19-May-23		<del> </del>
Contr. MILESTONE 3: Submit and Design of and Delivery Schedule for AVL (NTP+90 = 11/25/18)		21-Nov-18A		
Contr. MILESTONE 1; Substantial Completion of OMF & Yard (NTP + 817 + 116 = 3/17/21)		20-May-22 A		
Contr. MILESTONE 1A: OMF Final Completion		06-Feb-23	•	
Contr. MILESTONE 2: Substantial Completion of AI Work (NTP + 1005 + 247+18 = 2/17/22)		19-May-23*		•
Pre Construction	31-May-18 A	15-May-23		
Heading 1: 7th & Commerce to Stadium Way & Division	15-Oct-18A	14-Feb-23		
Heading 2: Stadium Way & Division to Division St and MLK	23-Oct-18A	14-Feb-23	_	
Heading 3: Division Stand MLK to MLK & 19th	15-Oct-18A	22-Feb-23		
OCS Wire Runs	19-Jul-21A	01-Feb-23	,	
Train Signal System	19-Dec-20 A	30-Dec-22A		
Job Wide IT S	15-Sep-22 A	09-Feb-23	7	·
OMF Facility	29-Aug-18 A	04-Nov-22A		
Testing & Commissioning	11-Mar-19A	17-May-23		-
Change Orders	07-Jan-19A	19-May-23		
Provisional Sum Time Impacts	01-Feb-19A	13-Mar-23		
Other Time Impacts	04-Mar-19A	03-Mar-23		
RFCs	09-Jan-19A	02-May-23		
Provisional Sums	03-Dec-18 A	02-Feb-23	<b>V</b>	
Weather Days	04-Feb-19A	27-Jan-20 A		

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#### **Schedule Performance Index**

This period the early SPI and late SPI were 1.0 which is consistent with last month. The SPI shown is relative to the project baseline and does not incorporate executed change orders and time extensions. The contractor needs to reforecast executed changes, upon receiving and acceptance, ST will incorporate the updated data into the SPI and report accordingly. Until such time, Early SPI will remain at 1.0.



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

- Heading 1: Begin installing survey monuments.
   Complete pouring remaining panels at S. 4th and Broadway.
- Heading 2: Begin track slab edge repairs.
- Heading 3: Continue installing station aluminum panels and grab rails.
- General: Continue Systems Integration Testing in all headings.

# **Closely Monitored Issues**

- Quality issues regarding track installation delayed some systems integration tests including those associated with vehicle testing. Tests are re-sequenced to mitigate impacts but delays have impacted start of RSD.
- ST continues to monitor timeline of conditional acceptance of LRVs to support start of pre-revenue service.
- 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.

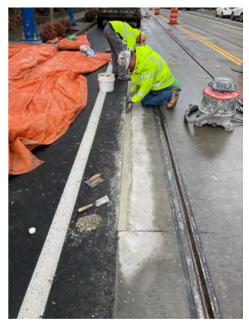
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# Link Light Rail Hilltop Tacoma Link Extension



# **Cost Summary**

Present Financial Status	Amount							
T100 Contractor— Walsh Construction Company								
Original Contract Value	\$108,295,000							
Change Order Value	\$32,873,592							
Current Contract Value	\$141,168,592							
Total Actual Cost (Incurred to Date)	\$140,413,595							
Percent Complete	99.4%							
Authorized Contingency	\$40,114,750							
Contingency Drawdown	\$32,873,592							
Contingency Index (CI = % Complete/% Ctg Spent)	1.21							



Track slab edge repair punch list work

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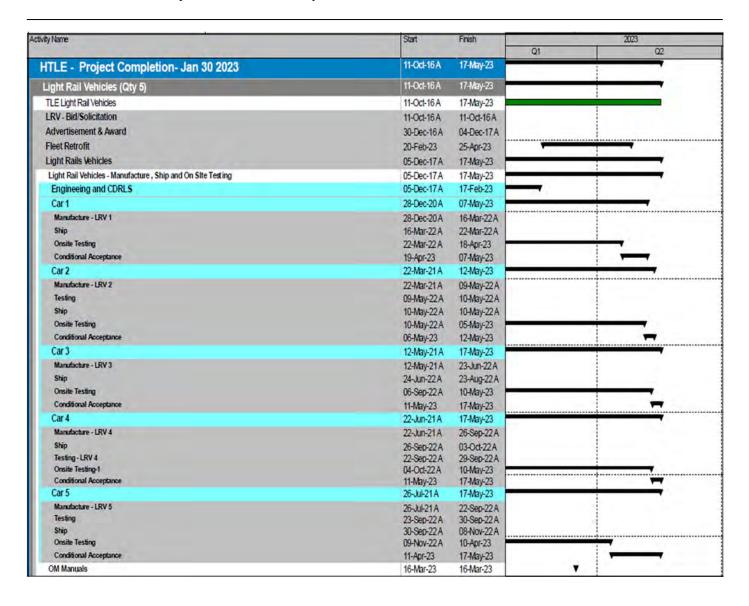
# Link Light Rail Hilltop Tacoma Link Extension



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

# **Current Progress**

- LRV #1: Conditional acceptance forecasted for May 7, 2023.
- LRV #2: Conditional acceptance forecasted for May 12, 2023.
- LRV #3: Conditional acceptance forecasted for May 17, 2023.
- LRV #4: Conditional acceptance forecasted for May 17, 2023.
- LRV #5: Conditional acceptance forecasted for May 17, 2023.



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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, delivering, testing &

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

Amended April 2017)

Schedule Baseline Project Completion: Q3 2024



Conditional Accepted Siemens light rail vehicle placed into service

# **Key Project Activities**

- Continued LRV deliveries to ST's Operations and Maintenance Facilities two LRVs were delivered this month.
- Continued Conditional Acceptance (CA) activities on delivered LRVs at ST's OMF three LRVs were CA this month.
- Continued shuttling of LRVs between OMF East in Bellevue and OMF Central in Seattle as a mitigation measure to address overflow in OMF Central yard storage two Series 2 LRVs transferred to OMF Central this month.
- Continued final assembly and car shell fabrication in Sacramento Facilities currently there are 13 cars at various stages of final assembly and car shells.
- Fifteen Series 1 LRV ATP mechanically retrofitted in OMF East. First Series 1 LRV qualification tests trouble-shooting continue at OMF Central.

# **Closely Monitored Issues**

- Ten fleet defects have been declared; the commissioning team effort in 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 and monitored.
- Manufacturer continued reporting supply chain interruptions impacting implementation of field modification instructions
  and submitted a general notice for War in Ukraine and COVID-19 pandemic impacts. Weekly meeting with Siemens to
  monitor progress.
- Coordination and scheduling of Automatic Train Protection (ATP) retrofit on Series 1 LRVs is more challenging than anticipated.
- 100% capital spare parts that do not require Field Modification Instruction (FMI) updates continue; targeted to complete delivery by September 2023. ST and Siemens continue working on getting a realistic completion delivery schedule/plan for all remaining spare parts that require FMI updates.

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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 \$495.0M to which a majority of the cost are attributed to the vehicles phase budget of \$474.6M. The current period expenditure is \$7.7M, where \$7.7M is attributable to the LRV manufacturing and 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	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$10.8	\$10.8	\$7.4	\$7.3	\$10.8	\$0.0
Construction Services	\$17.8	\$17.8	\$15.1	\$13.1	\$17.8	\$0.0
Vehicles	\$712.1	\$712.1	\$667.5	\$474.6	\$712.1	\$0.0
Total	\$740.7	\$740.7	\$690.1	\$495.0	\$740.7	\$0.0

Cost Summary by SCC

SCC Elements	Baseline Budget	Authorized Project Allocation	Project Commitment 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	\$705.2	\$705.2	\$673.2	\$478.3	\$705.2	\$0.0	
80 Professional Services	\$24.3	\$24.3	\$16.9	\$16.7	\$24.3	\$0.0	
90 Contingency	\$11.3	\$11.3	\$0.0	\$0.0	\$11.3	\$0.0	
Capital Total (SCC 10 - 90)	\$740.7	\$740.7	\$690.1	\$495.0	\$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 risks:

- Competing demands for extension project simulated services, Systems Integration Testing (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 commissioning of the 69th Series 2 LRV and forward.
- Delay in East Link rail access between OMF Central and OMF East results in cost and schedule inefficiency.
- Receiving LRVs at both OMF Central and OMF East create cost inefficiency (now require two teams in two locations to support commissioning activity) and increased risk of double handling of LRV, as not all testing and commissioning activities can be performed at OMF East currently.
- War in Ukraine and 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 amended in April 2017 to exercise the option LRV and contained a total of \$78.0M of Total Contingency. During this period, a net total of \$2.6M of contingency was drawn from the project's Total Contingency moving the balance from \$51.5 to \$48.9M or approximately 19.9% 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.

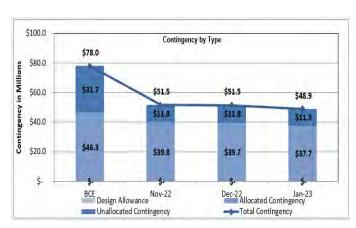
**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. The project baseline's allocated contingency was \$46.3M. Contingency amount of \$2M was drawn during this period for Testing and Commissioning of LRVs; the allocated contingency balance is at \$37.7M (previous period \$39.7M).

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. The UAC of \$500K was transferred to shore up various budget deplete scope during the annual 2023 budgetary process. UAC balance is now at \$11.3M compared to the previous period of \$11.8M

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

Contingency Status	Base	eline	Current			
	Amount	% of Total Budget	Remaining Amount	% of Work Remaining		
Design Allowance	\$ -	0.0%	\$ -	0.0%		
Allocated Contingency	\$ 46.3	6.3%	\$ 37.7	15.3%		
Unallocated Contingency	\$ 31.7	4.3%	\$ 11.3	4.6%		
Total	\$78.0	10.7%	\$ 48.9	19.9%		

#### **Contingency by Type**



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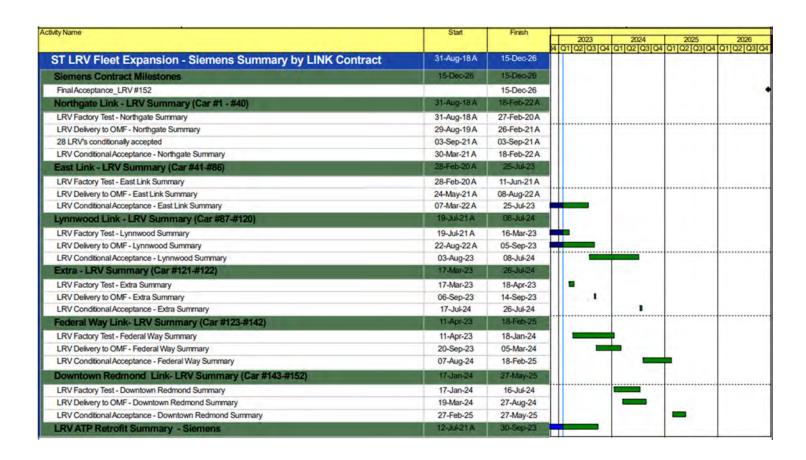
### **Project Schedule**

Percent complete of the contract payment milestones is calculated at 70.6%.

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 Siemens' monthly schedule update. The LRV manufacturer (Siemens) has delivered 107 cars of which 68 cars were Conditionally Accepted. In addition, there are 17 cars fully assembled at Siemens' storage yard in Sacramento and many car shells in various stages of production and assembly. Final Acceptance of the contract is projected for Dec 15, 2026.

Sound Transit and Siemens anticipate that all the 152 LRVs will have been delivered, commissioned and conditionally accepted by May 2025, which may impact the start of revenue service for each line extension, as was the case with Northgate Link, Mitigation measures for managing simulated service during pre-revenue may need to be identified and implemented. The interface is monitored closely.

Lastly, ATP retrofit schedule may have substantial impact on conditional acceptance rate for LRVs 46 through 100.



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## **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 the Sound Transit sites. 107 LRVs has been delivered. Conditional Acceptance of 68 LRVs has been completed to support Revenue Service. The remaining deliveries, commissioning and testing of light rail vehicles are anticipated to be completed by late May 2025. Current forecasts are that Conditional Acceptance rates may impact start of pre-revenue service for Lynnwood, Downtown Redmond, and Federal Way Link Extension projects. As was the case with Northgate Link, measures for managing simulated service during pre-revenue may need to be identified and implemented.



LRV Delivery and Testing Progress as of January 31, 2023									
LRV status	status Received / Delivered Testing in progress Conditionally Accepted Entered R								
Planned	132	8	124	124					
Actual (Seattle)	71	3	68	68					
Actual (Bellevue)	36	36	0	0					







Car 302 Vandal Shield Installation at OMF Central Seattle, WA

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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 planned FTE monthly average is the monthly annualized average; whereas, the YTD monthly average only reflects the actuals for month ending January 2023. 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	6.2	5.9	0.3				
Consultants	5.9 **	7.8	(1.9)				
TOTAL	12.1	13.7	(1.6)				
* An ETE is the equivalent of 1920 hours, YTD performance ETE hours are divided by a monthly factor of 160							

<sup>\*\*</sup> The Planed FTE for Consultants was inadvertently reported in the Agency Staffing Plan at 70.8.

#### **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** \$2.77 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 with canopy framing and escalator buildout, as well as exterior metal panel installation for the adjacent parking garage (L200).
- Continued construction of the Shoreline North / 185th Station, including electrical room and elevator machine room buildouts as well as elevator installation for the adjacent parking garage (L200).
- Continued construction of the Mountlake Terrace Station, including elevator and escalator installations (L300).
- Continued construction of the Lynnwood City Center Station with elevator and escalator installation, as well as elevator installation in the adjacent parking garage (L300).

# **Closely Monitored Issues**

- Site preparation for rain and cold temperatures during the wet weather season.
- Security at work areas to deter theft and trespassing.
- Availability and readiness of resources and staffing for testing and startup activities.

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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, \$14.7M 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 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	\$61.6	\$61.1	\$98.2	\$0.0
Preliminary Engineering	\$39.1	\$39.1	\$39.1	\$39.1	\$39.1	\$0.0
Final Design	\$164.2	\$164.2	\$156.2	\$148.6	\$164.2	\$0.0
Construction Services	\$128.4	\$139.0	\$126.0	\$97.7	\$139.0	\$0.0
3rd Party Agreements	\$14.6	\$17.6	\$13.1	\$12.4	\$17.6	\$0.0
Construction	\$1,921.4	\$2,094.6	\$1,966.6	\$1,573.6	\$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	\$183.2	\$179.5	\$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	\$2,545.7	\$2,111.8	\$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	\$1,109.1	\$681.2	\$576.2	\$803.1	\$306.1
20 Stations	\$333.8	\$218.8	\$418.4	\$336.3	\$441.5	(\$222.7)
30 Support Facilities	\$2.0	\$2.3	\$0.4	\$0.2	\$2.3	\$0.0
40 Sitework & Special Conditions	\$421.1	\$522.4	\$658.3	\$545.8	\$581.6	(\$59.2)
50 Systems	\$244.4	\$194.3	\$197.7	\$106.0	\$218.5	(\$24.2)
Construction Subtotal (10 - 50)	\$1,793.0	\$2,046.9	\$1,955.9	\$1,564.5	\$2,046.9	\$0.0
60 ROW, Land	\$235.7	\$219.1	\$183.2	\$179.5	\$219.1	\$0.0
70 Vehicles (Non-Revenue)	\$1.4	\$1.4	\$0.0	\$0.0	\$1.4	\$0.0
80 Professional Services	\$449.3	\$478.5	\$406.7	\$367.8	\$478.5	\$0.0
90 Unallocated Contingency	\$292.2	\$25.7	\$0.0	\$0.0	\$25.7	\$0.0
Total (10 - 90)	\$2,771.6	\$2,771.6	\$2,545.7	\$2,111.8	\$2,771.6	\$0.0

Tables across this report may have totals that do not equal line item sums due to 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 \$12.9M and Unallocated contingencies decreased by a net amount of \$2.9M due to construction change orders and yearly budget reallocations.

#### Contingency Status

#### Baseline Current Status Type % of Work % of Total Remaining Amount Budget Remaining Amount Design \$247.9 8.9% \$0.0 0.0% Allowance Allocated \$197.6 7.1% \$105.9 16.0% Contingency Unallocated \$292.2 10.5% \$25.7 3.9% Contingency \$737.7 26.6% \$131.6 19.9% Total:

#### Contingency by Type

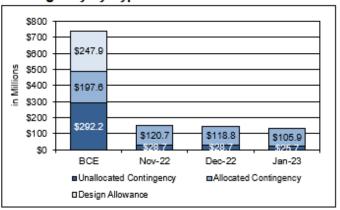
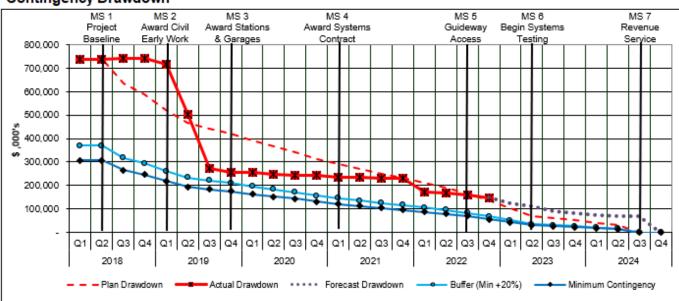


Table figures are shown in millions.

#### Contingency Drawdown



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# **Risk Management**

The following are the top project-wide risks:

- Partner agency and internal support resource availability for testing and commissioning.
- Quality issues necessitating field rework.
- Field changes for late-identified design deficiencies.
- Requests from third parties for additional scope as part of inspections and approvals.
- Civil and systems interface conflicts.

# **Project Schedule**

The weighted percent complete of the major construction contracts is calculated at 82.3%.

The Master Schedule has been partially updated through January. At this time the L300 January update has been submitted by the contractor. The impacts of weather events that have occurred in December continue to be analyzed. Efforts made through the Coordinated Installation Program (CIP) process, to coordinate area handovers are ongoing. Refinements to the Rail Activation Schedule are also ongoing. Permit closeout remains an area of focus for the near term updates. The revenue service date remains unchanged in July 2024.

ivity Name	Start	Finish			2022	-,			2023	to the	2024		
LLE Master Schedule	20-May-10 A	12-Jul-24	Q1	Q2	Q3	04	Q1	02	Q3	04	Q1	02	Q
Project Administration	20-May-10 A	12-Jul-24					_			_	-		_
	01-Sep-15A	10-Jul-24											-
Final Design/Preconstruction	01-Aug-18A	25-Mar-19 A											
Project Wide Utilties	01-Aug-16A	31-May-22 A											
L200 - Third Party Agreements													
L300 - Third Party Agreements	D2-May-16 A	31-Jan-23											
Permitting & AHJ Agreements	07-Jan-15 A	29-Mar-23											
Owner Furnished Equipment	01-Oct-21 A	14-Feb-23											
L350 200th St. Widening	09-Apr-18 A	21-Mar-23						9					
North Maint. of Way (MOW)	02-Jan-19 A	18-Dec-23								-			
WSDOT - I-5 Rehabilitation	02-Jan-20 A	02-Oct-23								•			
L200 ROW Acquisitions	04-Jan-16A	28-Jan-23					-						
L300 ROW Acquisitions	14-Jan-16A	29-May-23											
LLE WSDOT Surplus and AS	10-Jun-21 A	19-Apr-24										-	
L200 Civil Construction	25-Dec-18A	29-Dec-23									•		
L300 Civil Construction	25-Sep-18A	20-Oct-23	_							-			
L800 Systems Construction	04-Dec-20 A	30-Jan-24											
LLE Rail Activation	13-Jan-20 A	19-Jul-24											_
Subcommittee Activation Tasks	13-Jan-20 A	19-Jul-24											
Pre-Revenue Service	08-Sep-23	27-May-24	1									-	
Revenue Service Preparation	06-May-24	28-May-24					-					-	
Revenue Service - FFGA	27-May-24	17-Jul-24										-	-
Program Wide Float - (51CD)	27-May-24	17-Jul-24											
Revenue Service - 7/17/2024		17-Jul-24*											

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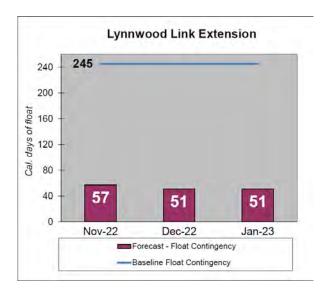


## **Project Float**

The Lynnwood Link Extension was baselined with 245 days of project float. Currently, the project is calculated to have 51 days remaining between completion of work and the July 17, 2024 revenue service date. No change in this value can reported at this time.

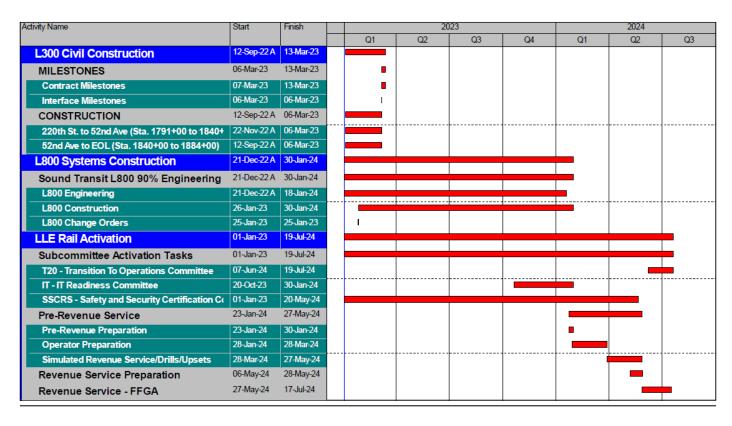
The float reported remains an area of focus for improvement. ST continues working with the contractors to re-examine the schedule duration, logic, and work sequences to find opportunities for improvement.

The target revenue service date is currently being evaluated as part of a program-wide risk assessment. Results of that assessment are expected to be available in Q1 2023.



### **Critical Path Analysis**

The January critical path for the Lynnwood Link Extension is currently in review. Absent the updated L300 schedule, the critical runs through the L200 final track handover to the L800 contractor. The critical path after handover to the L800 systems contractor run through the installation of the signals systems and then into testing. Completion of the 148th Station, 185th Station, electrical distribution for the L200 contract, and Signals and Communications work within the L800 systems contract remain near critical elements of the project. This path remains subject to change upon receipt of updated schedules.



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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 easements and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions can 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 the Lynnwood Link Extension the total number of parcels available for construction is 350.

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				
390	400	751	741	383	382				

<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. All Personal Property Only moves are completed. One relocation remains.

# **Community Engagement**

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

- Attended RSIP meeting with City of Shoreline.
- Northbound I-5 to NE 175th Street off-ramp closed for nighttime track equipment mobilization work.
- Night work on the NE 175th Street to northbound I-5 on-ramp for pole installation
- Early morning work on the Sound Transit guideway between NE 182nd Court and NE 185th Street.
- 200th Street website published.
- Communication with community members in Lynnwood regarding construction impacts due to installation of poles, fences, signage; as well as parking impacts.

Community Engagement staff also met with City of Shoreline staff regarding current and upcoming community impacts due to construction; as well as attended a Residential Sound Insulation Program (RSIP) with the City of Shoreline.

#### **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 is 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.

Higher consultants than planned due to the new planned values for 2023, which is expected to level out later in the year as the project comes closer to substantial completion.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance		
ST Staff	46.3	50.0	(3.7)		
Consultants	95.0	123.0	(28.0)		
TOTAL	141.3	173.0	(31.7)		
* An ETE is the equivalent of 1 920 hours. VTD performance ETE hours are divided by a monthly factor of 160					

 $<sup>^</sup>st$  An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

# **Construction Safety**

Data/Measure	January 2023	Year to Date	Project to Date	
Recordable Injury/Illness Cases	0	0	47	
Days Away From Work Cases	0	0	5	
Total Days Away From Work	22	22	130	
First Aid Cases	0	0	79	
Reported Near Mishaps	0	0	71	
Average Number of Employees on Worksite	485	-	-	
Total # of Hours (GC & Subs)	119,639	119,639	4,920,725	
OSHA Incident Rates	Month	Year to Date	Project to Date	
Recordable Injury Rate	0.00	0.00	1.91	
LTI Rate	0.00	0.00	0.20	
Recordable National Average	2.50			
LTI National Average	1.10			
Recordable WA State Average	4.40			
LTI WA State Average	2.00			

<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

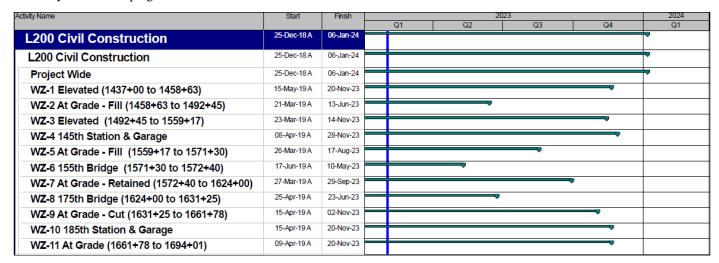
# **Current Progress**

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 canopy framing and escalator buildout.
- 148th Garage Continued elevator exterior metal panel installation and placement of stairway handrails.
- 185th Station Continued buildout of ancillary buildings and elevator machine room.
- 185th Garage Continued elevator installation and ancillary room framing.

### **Schedule Summary**

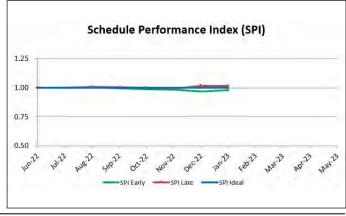
The January update forecasts an November 18, 2023 substantial completion date, fourteen calendar days later than the substantial completion milestone date of November 4, 2023. Within the L200 contract schedule, the contractor's critical paths are now driven by 148th/Shoreline South Station completion, as well as a second path driven by the 185th ductbank and subsequent 8th Ave reconstruction. As trackwork nears completion, near critical activities are focused on station completion, roadway and landscaping.



#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.98 (increase from last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 1.01 (decrease from last period).



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#### **Work Zone Overview**



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

- Continue MSE wall construction.
- Continue trackwork installation.
- Continue 148th Station electrical rough-in and canopy framing and escalator buildout.
- Continue 185th Station electrical and elevator machine room rough-in and elevator glazing & framing.

# **Closely Monitored Issues:**

- Electrical utility crew availability to install and activate power feeds on schedule for systems testing.
- Safety risks associated with shared access to elevated guideway elements.
- Inclement weather delays and environmental compliance.

### **Cost Summary**

Present Financial Status	Amount
L200 Contractor - SKH Excludes 130th and betterments	
Original Contract Value	\$88,147,258
Change Order Value	\$768,604,356
Current Contract Value	\$856,751,614
Total Actual Cost (Incurred to Date)	\$725,089,741
Percent Complete	85.2%
Authorized Contingency	\$43,762,892
Contingency Drawdown	\$16,753,350
Contingency Index	2.2



148th Station Escalator

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

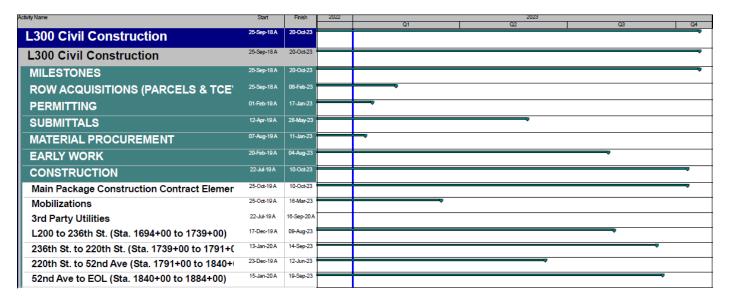
# **Current Progress**

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

- Continued Lynnwood Transit Center garage work.
- Continued elevator and escalator installations at Mountlake Terrace and Lynnwood stations.
- Continued trackwork and direct fixation plinth installation along the alignment.
- Continued plaza and site hardscaping along the alignment.
- Continued site and wetlands restoration along alignment.

## **Schedule Summary**

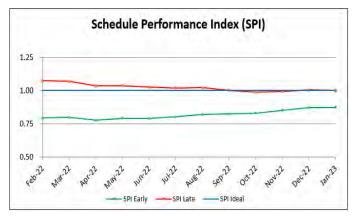
The January update from Skanska remains has not been submitted to Sound Transit at this time. The December update has reviewed and returned to the contractor twice for revision. Sound Transit is working with Skanska to resolve the outstanding schedule issues and update the schedule to current status.



#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.88 (same as last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 1.00 (decrease from last period).



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#### **Work Zone Overview**



## **Next Period's Activities**

- Continue site and wetlands restoration along alignment.
- Continue finishes and electrical/mechanical work at Mountlake Terrace and Lynnwood stations.
- Continue Lynnwood Transit Center parking garage work.
- Continue trackwork and plinth installation along the alignment.

# **Closely Monitored Issues**

- Number of field changes due to design inconsistencies.
- Inclement weather delays and environmental compliance.
- Final inspections and approvals to support the public opening of the Lynnwood Transit Center garage.

# **Cost Summary**

Present Financial Status	Amount				
L300 Contractor—Skanska					
Original Contract Value	\$56,886,631				
Change Order Value	\$840,879,645				
Current Contract Value	\$897,766,276				
Total Actual Cost (Incurred to Date)	\$735,237,588				
Percent Complete	84.6%				
Authorized Contingency	\$76,394,634				
Contingency Drawdown	\$62,766,276				
Contingency Index	1.0				



Mountlake Terrace Station Platform

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# Contract L800 Lynnwood Link Systems GC/CM

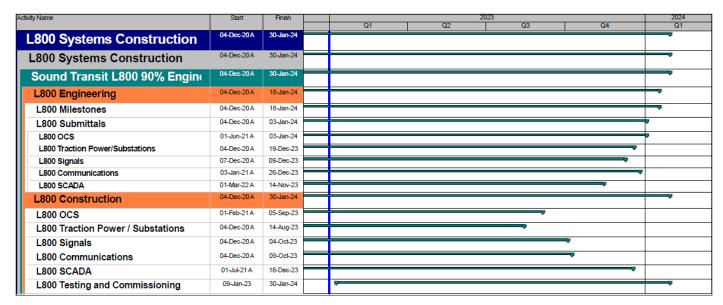
# **Current Progress**

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

- Approvals and procurement of key equipment including Traction Power Substations (TPSS).
- Continued installing cable, conduit, innerduct, cameras, and fiber optic cable.
- Continued Factory Acceptance Testing on TPSS and train control signal equipment.
- Continued fabrication and installation of Overhead Catenary System (OCS) poles, hangers, cantilevers and messenger wire.
- Initial TPSS units delivered and set.

# **Schedule Summary**

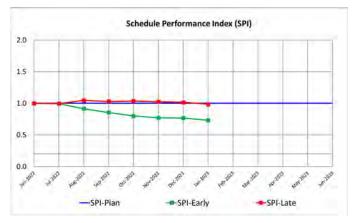
The L800 January schedule update continues to forecast a substantial completion of January 9, 2024, seven days earlier than the revised contractual date of January 16, 2024. The critical path is unchanged, driven by track handovers from the civil contractors. Signals installation appears to drive the critical path, however inclusion of a current L300 update may alter that. ST is continuing to closely monitor and coordinate several aspects of the work, including delivery of traction power substations and signal houses and handovers from the civil contractors.



#### Schedule Performance Index

Early SPI represents progress against an optimistic version of the contract baseline schedule. This period, the early SPI is 0.73 (decreased from last period).

Late SPI represents progress against a more conservative schedule. This period, the late SPI is 0.98 (decreased from last period).



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

- Continue procurement of key equipment including TPSS and train control signal system buildings.
- Continue Factory Acceptance Test (FAT) testing on TPSS and signal houses.
- Continue installation of OCS poles and cantilevers.
- Continue installation of communication equipment.
- Delivery of additional Signal Houses.

## **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) and radio system equipment.
- Safety risks associated with shared access to elevated guideway elements.

# **Cost Summary**

Present Financial Status	Amount				
L800 Contractor - Mass Electrical Construction Co.					
Original Contract Value	\$148,000,000				
Change Order Value	\$1,837,414				
Current Contract Value	\$149,837,414				
Total Actual Cost (Incurred to Date)	\$67,228,404				
Percent Complete	52.1%				
Authorized Contingency	\$10,360,000				
Contingency Drawdown	\$1,837,414				
Contingency Index	2.9				



Shipment and delivery of TPSS Unit.

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# **Project Summary**

**Scope** Construct an elevated infill station at NE

130th St and 5th Ave NE in Seattle.

Phase Construction

**Budget** \$240.2 Million

Schedule Q2 2026



Rendering of Station as Viewed from I-5 Overpass

# **Key Project Activities**

- Continued end diaphragm installation.
- Continued installation of guideway decking.
- Began elevator beam concrete placement.

# **Closely Monitored Issues**

- Progress of the Lynnwood Link Civil Contractor and availability of the station area for finishes construction.
- Market conditions, inflation and supply chain pressures on costs for station finishes.
- Closure duration and future restoration requirements for 5th Ave NE.
- Coordination with Seattle for permit review of station finishes package and use of ST3 Non Motorized Access Enhancement Funds.

# **Community Engagement**

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

- Updated opening date and map of the station on ST website.
- Continued preparations for an upcoming open house to coincide with commencement of the station finishes package work.

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

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

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## **Project Cost Summary**

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

In the current period \$3.6M was incurred. The major expenditures were for civil construction, construction management, and design services during construction.

#### **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	\$8.1	\$8.1	\$2.8	\$2.8	\$8.1	\$0.0
Preliminary Engineering	\$2.7	\$2.7	\$2.7	\$2.7	\$2.7	\$0.0
Final Design	\$17.6	\$17.6	\$11.8	\$11.0	\$17.6	\$0.0
Construction Services	\$17.3	\$17.3	\$12.5	\$1.9	\$17.3	\$0.0
3rd Party Agreements	\$1.7	\$1.7	\$0.7	\$0.6	\$1.7	\$0.0
Construction	\$192.6	\$192.6	\$24.1	\$11.8	\$192.6	\$0.0
ROW	\$0.1	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Project Contingency	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total	\$240.2	\$240.2	\$54.6	\$30.9	\$240.2	\$0.0

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

# **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 YTD Actual FTE monthly average through the end of the current period is below the planned FTE monthly average, with less staff and less civil DSDC and CM staff than planned.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	9.6	3.6	6.0
Consultants	13.0	11.5	1.5
TOTAL	22.6	15.1	7.5

<sup>\*</sup> An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

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# **Contingency Management**

The project budget was baselined in 2022 with a total contingency of \$48.6M.

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

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

**Current Period:** During the current period Allocated Contingency was reduced by \$2.5M and Unallocated Contingency was reduced by \$2k due to movement in preparation for upcoming commitments.

#### **Contingency Status**

#### Contingency by Type

	Baseline		Current	Status
Туре	Amount	% of Total Budget	Remaining Amount	% of Work Remaining
Design Allowance	\$0.0	0.0%	\$0.0	0.0%
Allocated Contingency	\$30.9	12.9%	\$29.1	13.9%
Unallocated Contingency	\$17.7	7.4%	\$17.7	8.4%
Total:	\$48.6	20.2%	\$46.7	22.3%

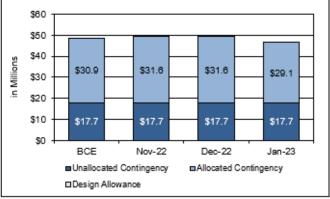
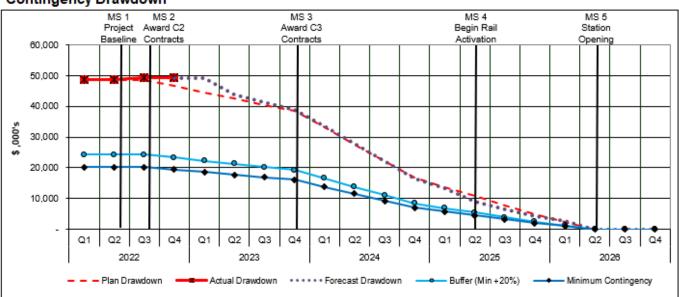


Table figures are shown in millions.

#### Contingency Drawdown



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# **Risk Management**

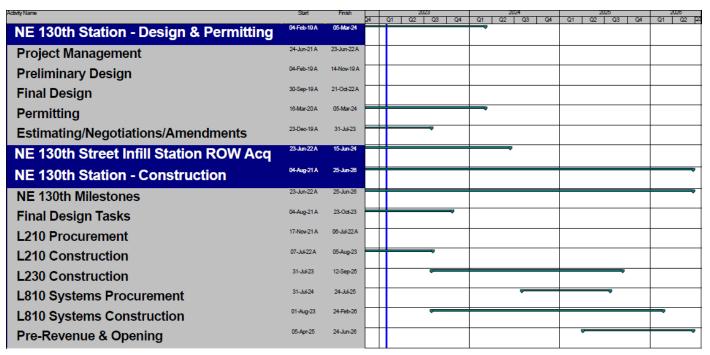
The following are the top project risks identified:

- Unresolved traffic control plan with jurisdictions affecting follow-on contractors.
- Seattle Design Commission requesting additional station elements/aesthetics.
- Additional requirements associated with possible federal funding for the project.

### **Project Schedule**

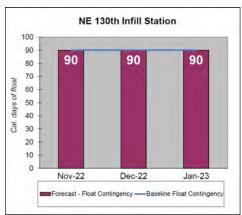
The weighted percent complete for the major construction contracts is calculated at 9.3%.

Civil work continues as Stacy & Witbeck / Kiewit / Hoffman (SKH) places concrete for the platform beams for the station as part of the L210 contract. Permitting activities for the building finishes, WSDOT Project Development Approval (PDA) and City of Seattle Street Improvement permit and building permit reviews for the station construction are ongoing, in support of the L230 Station Finishes contract. The L230 bid advertisement is currently targeted for mid-February 2023. The station is currently forecast to open in Q2 2026.



## **Project Float**

Project float currently retains the 90 days of float. The L210 January update, the first received from the contractor, forecasts an August 2023 demobilization, which is keeping with the planned start for L230 construction.



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## Contract L210 GC/CM

# **Current Progress**

- Continued guideway decking installation.
- Continued end diaphragm formwork.
- Began elevator beam concrete placement.

# **Schedule Summary**

The schedule forecasts a completion in October 2023. The L210 baseline schedule has been reviewed and accepted. The January update currently forecast a demobilization from the site in August 2023, allowing the future L230 contractor to start on site as planned. The schedule currently forecast the completion of structural concrete in late April 2023, with canopy steel erection starting in mid-March.

tivity Name	Start	Frish			2023	-	
			04	01	02	Q3	04
L210 - 130th Station C2 Package Upda	22-Sep-20 A	06-Oct-23		1111			•
Project Wide	22-Sep-20 A	08-Oct-23					•
Milestones	30-Aug-23	06-Sep-23				-	
Change Order	22-Sep-20 A	23-Aug-22 A					
Submittals	29-Od-21 A	01-Apr-23			7		
Procurement	18-May-22 A	20-Jun-23			-		
Schedule of Values	23-Aug-22A	06-Oct-23		- 4			-
WZ-3 Elevated (1492+45 to 1559+17)	18-Jul-22A	06-Oct-23					-
130th Station	18-Jul-22A	06-Oct-23					_
Platform	18-Jul-22 A	29-Aug-23					
Girders	18-Jul-22A	21-Sep-22A					
CIP Concrete	20-Sep-22 A	27-Apr-23	-		_		
Structural Steel	13-Mar-23	12-Jul-23				7	
Paint Structural Steel	28-Apr-23	29-Aug-23		= 3 5	9	-	
Civil/Track	13-Jun-23	08-Oct-23			-		-
Handrail/Acoustic Panels	24-Mar-23	13-Apr-23	-		-		

Present Financial Status	Amount				
SKH – Civil Construction					
Original Contract Value	\$22,287,507				
Change Order Value	\$535,112				
Current Contract Value	\$22,822,619				
Total Actual Cost (Incurred to Date)	\$11,607,301				
Percent Complete	55.8%				
Authorized Contingency	\$3,242,493				
Contingency Drawdown	\$535,112				
Contingency Index	3.4				



Station decking rebar

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# **Project Summary**

Scope

Construct a maintenance of way facility that will serve and support the Northgate Link, Lynnwood Link, and Ballard Link Extensions.

The site contains a leased warehouse property that will undergo improvements to support a temporary facility that will serve the near-term Lynnwood Link Extension operations.

The leased site includes an option for Sound Transit to purchase the property to serve as the permanent facility.

Phase Design (Temporary Facility)

Budget \$32M

Design for Temporary Facility. Right-of-Way Activities for Permanent Facility.

**Schedule** Q4 2023 Temporary Facility

Q4 2027 Permanent Facility



Site Location: North MOW

## **Key Project Activities**

- Task Order with the general engineering consultant executed covering tenant improvement design, property acquisition support, and early design options (renovation vs. new facility) for permanent facility.
- Initiated site investigations for tenant improvement work.

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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). The figures in the table are shown in millions.

This period approximately \$813K was incurred. The project expenditures include the annual lease payment for the temporary facility, executing task order on tenant improvement design activities for the temporary facility, property acquisition support, and early design options (renovation vs. new facility) for permanent facility.

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

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$2.1	\$0.6	\$0.6	\$2.1	\$0.0
Preliminary Engineering	\$1.9	\$0.2	\$0.2	\$1.9	\$0.0
Final Design	\$3.1	\$0.0	\$0.0	\$3.1	\$0.0
Construction Services	\$1.2	\$0.0	\$0.0	\$1.2	\$0.0
3rd Party Agreements	\$0.5	\$0.0	\$0.0	\$0.5	\$0.0
Construction	\$3.3	\$0.0	\$0.0	\$3.3	\$0.0
ROW	\$20.0	\$1.4	\$1.4	\$20.0	\$0.0
Total	\$32.0	\$2.2	\$2.1	\$32.0	\$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:

- Tenant improvements needed by Q4 2023 to support Lynnwood Link pre-revenue service. Current schedule does not meet this date.
- Constrained staffing resources could impact project delivery.
- Permits for permanent facility may take longer than expected.
- Property requires more extensive restoration than originally thought for the temporary facility, requiring additional design and construction work than expected.

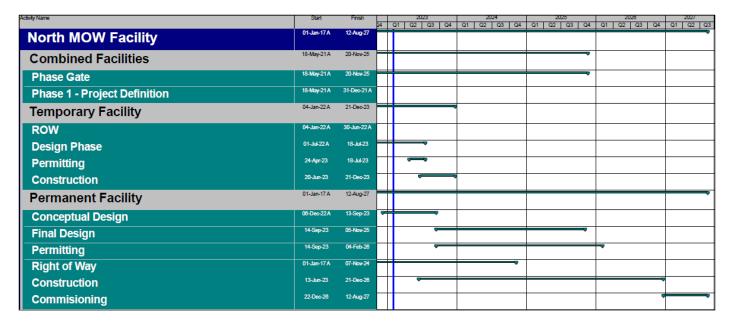
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## **Project Schedule**

The North Maintenance of Way Facility continues move forward with the two element approach. The temporary facility is currently has been leased and evaluated for current needs. The tenant improve design is getting started. The permanent facility is still in early development.

The temporary facility is scheduled to open in late 2023, prior to the Lynnwood Link Extension opening. The permanent facility currently has a long-range time frame of 2027, subject to ongoing evaluation. A revised schedule for the project is currently in draft form and is undergoing review.



# **Community Engagement**

• 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 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 YTD Actual FTE monthly average through the end of the current period is below Planned FTE levels. Over time the variance should trend closer to planned as the project moves into tenant improvement design on the temporary facility, including acquisition support activities, and early design options for the permanent facility.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance	
ST Staff	4.2	1.0	3.2	
Consultants	6.0	1.0	5.0	
TOTAL	10.2	2.0	8.2	

<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**

Board Action	Description	Date
	None to report this period.	

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# **Project Summary**

#### Scope

Limits Federal Way Transit Center to South

Federal Way, Fife, Portland Avenue, 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, Portland Avenue

and Tacoma Dome

Systems Signals, traction power, communications

(SCADA), Operations and Maintenance

Facility South (OMF South)

Phase Planning: Alternative Development/Project

Development

**Budget** \$126.4 M for Preliminary Engineering

Phase 1—Alternative Development Phase 2

Schedule Target Dates:

Tacoma Dome Station, 2032

Parking at South Federal Way & Fife, 2038

A separate project, Tacoma Dome Station Parking and Access Improvements, will fund non-motorized and/or parking improvements in the vicinity of Tacoma Dome Station. This project will be developed in parallel with TDLE.



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)

- Impending correspondence from Tribal Council of Puyallup Tribe of Indians.
- Sound Transit Board scheduled in March to identify additional alternatives to study in DEIS in South Federal Way and Fife segments station area.

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

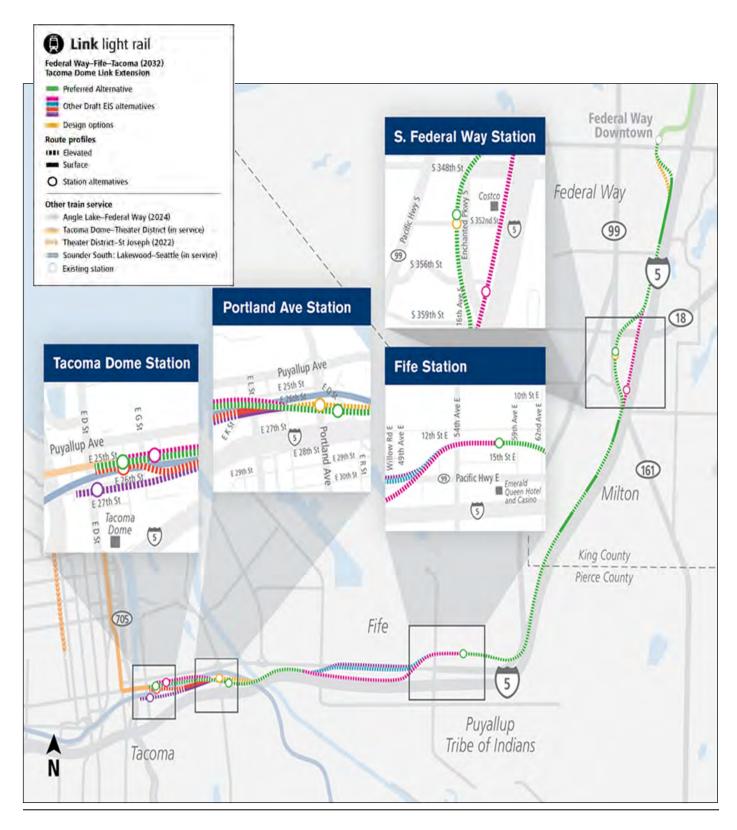
- Continued production of the Final Environmental Impact Statement (FEIS) and supporting design.
- Geotechnical borings in the proposed OMF South project area and related Real Property and engagement coordination with property owners.
- Continued design development in coordination with Tribal Nations and agency partners.
- DBPM procurement underway.
- Discussions with FHWA, FTA and WSDOT on NEPA class of action.

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## **Project Map**

Graphic below depicts additional 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. The figures in both tables are shown in millions.

For this period \$0.5M was incurred. The majority of project expenditures were for preliminary engineering associated with TDLE Phase 2 and OMF South Phase 3.

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

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$31.3	\$19.0	\$18.9	\$31.3	\$0.0
Preliminary Engineering	\$97.8	\$81.7	\$46.4	\$97.8	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$20.0	\$0.0	\$0.0	\$20.0	\$0.0
3rd Party Agreements	\$6.4	\$3.7	\$1.8	\$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	\$143.6	\$1.1	\$0.8	\$143.6	\$0.0
Total	\$299.1	\$105.4	\$67.8	\$299.1	\$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	\$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	\$128.6	\$1.1	\$0.8	\$128.6	\$0.0
80 Professional Services	\$154.7	\$104.3	\$67.0	\$154.7	\$0.0
90 Unallocated Contingency	\$15.8	\$0.0	\$0.0	\$15.8	\$0.0
Total (10 - 90)	\$299.1	\$105.4	\$67.8	\$299.1	\$0.0

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

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# **Risk Management**

The following are the top project-wide risks:

#### Tacoma Dome Link Extension (TDLE)

- Identification of a new station option in Fife outside the flood-plain and additional identification and environmental review
  of alignments in the South Federal Way area will substantially impact the DEIS publication and have corresponding impacts
  to revenue service date.
- Heightened risk of design changes or unanticipated mitigation associated with cultural and/or natural resources may increase project cost and extend schedule.
- Environmental mitigation costs could increase.
- Potential impacts from higher real estate and construction costs.
- Potential design or construction challenges could emerge as work progresses, including crossing of Puyallup River may increase time needed.
- Unknown requests / requirements from third parties could result in higher costs.
- Potential permitting challenges and other necessary timely coordination / approvals with many permitting authorities.

#### **OMF South**

- Preferred Alternative in Federal Way requires street vacation and code deviation, negotiations and/or mitigations could impact schedule.
- Environmental permitting challenges. An ecosystem mitigation plan acceptable to all parties, may take longer to negotiate and/or cost more than anticipated. A comprehensive mitigation plan will be required to mitigate unavoidable impacts to ecosystem resources on the S 336th Street site.
- Right-of-way cost may increase more than projected escalation rates as a result of property value increases in the region.
- Third party coordination and/or unanticipated required mitigation could increase cost.
- Unidentified utility conflicts, contaminated soil and/or groundwater may be discovered during construction, increasing cost.
- New FHWA NEPA guidelines are likely to change NEPA process and impact schedule.

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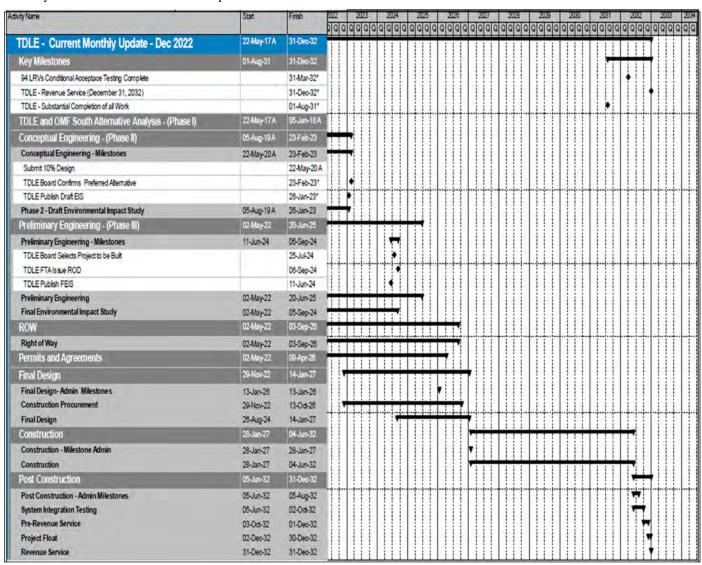
#### **Tacoma Dome Link Extension**

# **Current Progress**

Continued regular coordination with FTA, the Cities of Fife, Milton, Federal Way and Tacoma.

### **TDLE Project Schedule**

Below is the December 2022 schedule, due to the fact that the project team is still evaluating the impact of delays stemming from the potential inclusion of a new station option (s) in Fife and additional alignment alternative in South Federal Way the January 2023 schedule is still in development.

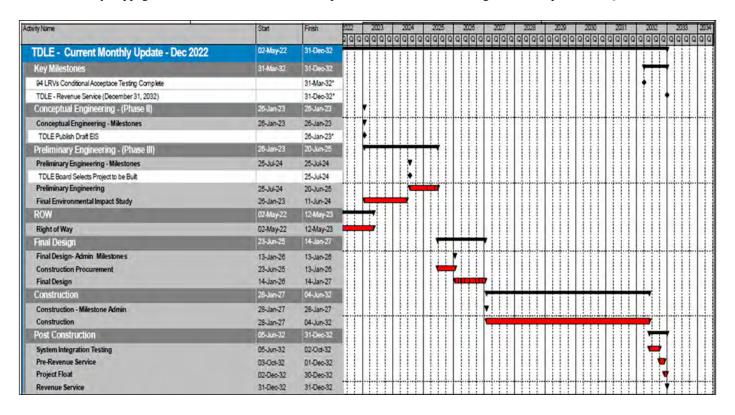


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## **TDLE Critical Path Analysis**

The critical path for TDLE is running through Phase 2 publishing of the DEIS and ST Board Preferred Alternative identified / confirmed. Any slippage to Phase 2 and Phase 3 could impact the Revenue Service target date completion of Q4 2032.



# **Community Engagement**

Nothing to report this month.

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# Link Light Rail Tacoma Dome Link Extension



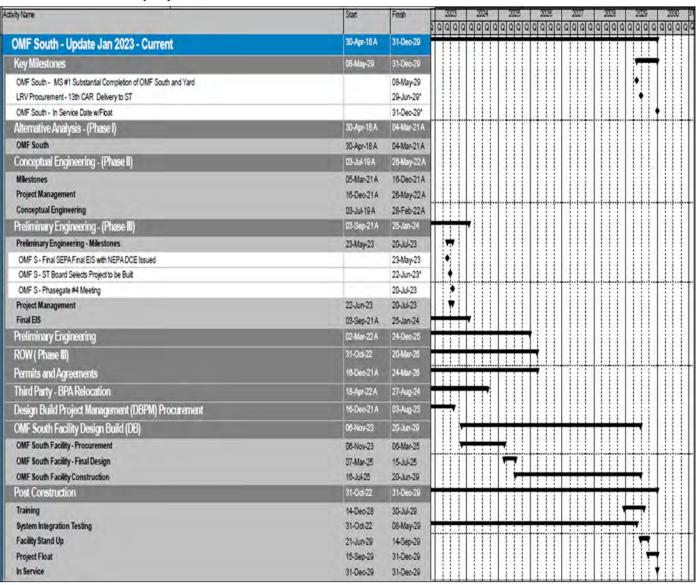
# **Operations and Maintenance Facility South**

# **Current Progress**

- Continued work on the Final Environmental Impact Statement (FEIS) and supporting design.
- Continued regular coordination with City of Federal Way on design, land use, city code and permitting.
- Continued coordination with environmental permitting agencies.

# **OMF South Project Schedule**

Below is the summary schedule as of January 31, 2023. Project is Phase 3 with the Final SEPA/FEIS milestone is
forecasted for Q2 2023. The project team is discussing with FHWA, FTA and WSDOT the NEPA class of action, the
outcome of which may impact schedule.



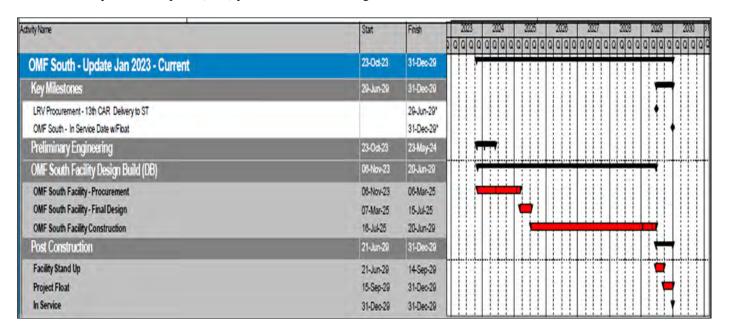
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# Link Light Rail Tacoma Dome Link Extension



# **OMF South Critical Path Analysis**

The critical path for OMF South is running through Preliminary Engineering Final Environmental Impact Statement effort and issuance of Request For Proposal (RFP) procurement of the design-build contractor.



# **Community Engagement**

• Provided briefing to a Federal Way resident.

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# Link Light Rail Tacoma Dome Link Extension



# 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 easements and temporary construction easements) and non-compensable rights (e.g. rights of entry). These acquisitions may 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							
	ACQUISIT	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 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.

Project has planned 130.5 average FTEs per month for the year 2023. To date, both ST and consultant actual staffing levels have recorded an underrun variance to the Planned Monthly FTE average. Since the decision on the test track and site layout has been made, the OMF South ramped up and expecting to be steady. TDLE project team is waiting for Board approval and authorization on Additional alignment and station options, and because of that HDR burn rate is low.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	30.5	19.3	11.2
Consultants	100	29.5	70.5
TOTAL	130.5	48.8	81.7

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 160.0.

### **Sound Transit Board Actions**

Board Action	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.

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

Phase Planning

**Budget** \$225.0M through completion of

**Preliminary Engineering** 

**Schedule** Target date: 2032



Map of Project Alignment

# **Key Project Activities**

- Continued Phase 3 project development activities to prepare the Final EIS and conduct Preliminary Engineering for the West Seattle Link Extension.
- Continued engagement with partner and regulatory agencies, stakeholder groups and property owners regarding environmental process and next steps.

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# **Project Cost Summary**

The West Seattle Link Extension is 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 \$24M in 2023 for coordinating Final EIS development, preliminary 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	\$14.5	\$2.0	\$2.0	\$14.5	\$0.0
Preliminary Engineering	\$84.2	\$44.6	\$27.8	\$84.2	\$0.0
Final Design	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$1.6	\$0.0	\$0.0	\$1.6	\$0.0
3rd Party Agreements	\$2.7	\$1.0	\$0.6	\$2.7	\$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	\$122.1	\$1.0	\$0.9	\$122.1	\$0.0
Total	\$225.0	\$48.6	\$31.3	\$225.0	\$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	\$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	\$121.8	\$1.0	\$0.9	\$121.8	\$0.0
80 Professional Services	\$96.0	\$47.6	\$30.4	\$96.0	\$0.0
90 Unallocated Contingency	\$7.2	\$0.0	\$0.0	\$7.2	\$0.0
Total (10 - 90)	\$225.0	\$48.6	\$31.3	\$225.0	\$0.0

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

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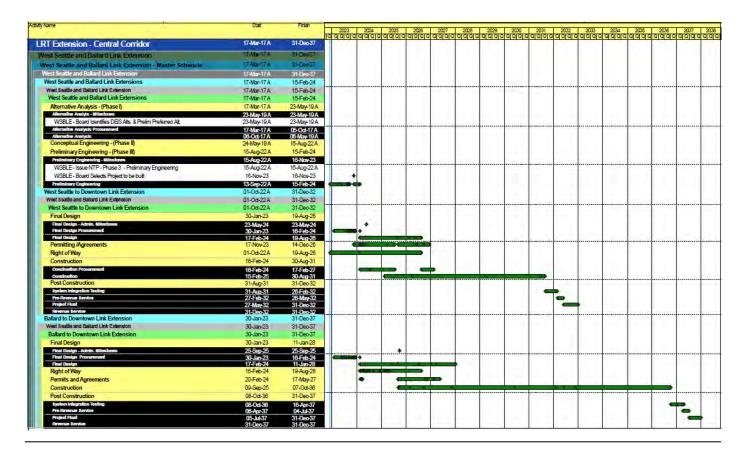
# **Risk Management**

The following are the top project-wide risks:

- Delayed identification of preferred alternative and potential additional environmental process requirements could impact the schedule for completion of environmental documentation and design.
- Complexity of alignment in a constrained environment with challenging topography and waterway crossing.
- Potential construction effects in a constrained environment.
- Potential schedule risks associated with real estate acquisition process.
- Budget risk due to higher current real estate costs and construction costs.
- Potential permitting challenges and other necessary coordination/approvals could delay the project and add cost.

# **Project Schedule**

The Board of Directors announced their realignment decision in August 2021 which includes a target date of 2032. The DEIS was published in January 2022 and Phase 3 Preliminary Engineering NTP was issued in August 2022, following the Board identification of the Preferred Alternative. The project is currently progressing towards the Select Project to be Built milestone, originally planned for November 2023. The project has experienced a delay to this milestone as a result of a 2-month delay to the Begin PE milestone. The forecast for the Select Project to be Built milestone is currently January 2024. While the project team is working to evaluate and mitigate the impacts of delays on the overall project schedule, it is currently forecasted to result in a 2 month delay to the target service date.



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# **Community Engagement**

- Conducted outreach to four property owners throughout the corridor.
- Conducted two community outreach briefings, tours, and other external engagement activities throughout the corridor.
- Conducted continued fieldwork activities throughout the WSLE corridor.

# **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 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-19.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	12.9	23.7	(10.8)
Consultants	38.7	16.9	21.8
TOTAL	51.6	40.6	11.0

<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**

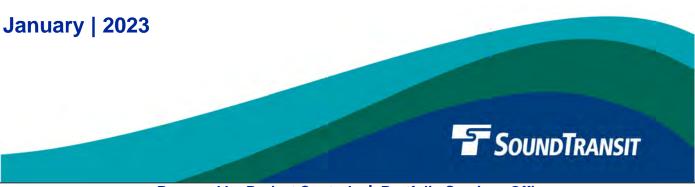
<b>Board Action</b>	Description	Date
	None to report this period.	

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# Progress Report Sounder Program



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



# Sounder Commuter Rail Program Overview





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# Sounder Commuter Rail Program Overview



**DuPont Extension:** Project will plan, design and construct a Sounder service extension from Lakewood to DuPont to include two new stations at Tillicum and DuPont, second mainline track & signal improvements, layover track improvements, and ancillary improvements. Preliminary project budgets established in 2023 and will proceed through Phase Gate 1 this year. Reporting on project progress will commence following the completion of Phase Gate 1.

**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:** 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 Kent Auburn Station Parking Access Improvements: Sumner, Kent, and Auburn Stations Parking and Access Improvements project will build bicycle, pedestrian, lighting, and parking access improvements at three South Sounder Stations. In January 2023 the Sound Transit Board authorized Resolution No. R2023-02, which combined the project budgets for Sumner, Kent, and Auburn Stations Parking and Access Improvements projects into one project baseline budget with shared contingencies. The combined project budget will provide agency administration, design, acquisition of right-of-way, construction, construction services, and third-party activities and includes an alternative concept allowance available to the three contracts to address procurement opportunities and innovation.

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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 Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Lakewood Station Access Improvements	\$6.2	\$3.9	\$2.1	\$6.2	\$0.0
Puyallup Station Access Improvements	\$81.9	\$79.1	\$76.2	\$81.9	\$0.0
Sounder South Capacity Expansion	\$34.8	\$9.4	\$5.9	\$34.8	\$0.0
South Tacoma Station Access Improvements	\$5.8	\$3.9	\$2.3	\$5.8	\$0.0
Sumner, Kent and Auburn SPAI	\$359.7	\$38.9	\$33.8	\$359.7	\$0.0
Total	\$488.4	\$135.1	\$120.4	\$488.4	\$0.0

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

# **Program Schedule of Baseline Projects**

Baseline projects are summarized below. Please see the individual project reports for further details, including schedules for prebaselined projects.



KEY:

Final Design (hatched indicates possible Design-Build; incl procurement)

Construction (thin hatched is procurement; incl Startup/Testing/Pre-Revenue/Float)

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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 2, the project will conceptually design the improvements and conduct an environmental review under SEPA.

Phase Planning Phase 2—Conceptual Engineering

and Environmental

**Budget** \$5.86 Million

**Schedule** Target Date: 2030



Lakewood Station in Pierce County

# **Key Project Activities**

- Continued to meet with jurisdictional partners to finalize design assumptions.
- Continued conducting survey work on the proposed improvements.
- Continued planning for Conceptual Engineering.



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). The figures are shown in millions.

This period expenditures increased by \$237K with the majority of the amount coming from staff costs, outreach, and Phase 2 — Conceptual Engineering and Environmental Assessment 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	\$2.2	\$0.7	\$0.7	\$2.2	\$0.0
Preliminary Engineering	\$3.3	\$2.8	\$1.2	\$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	\$0.4	\$0.3	\$0.3	\$0.4	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$0.3	\$0.1	\$0.0	\$0.3	\$0.0
Total	\$6.2	\$3.9	\$2.1	\$6.2	\$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 Sound Transit scope changes could lead to increased costs and delays to the schedule.
- Too many desired improvements may exceed the financial plan budget.

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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, is reflected in the schedule shown below.

Phase I - Alternative Development NTP was issued in December 2020. The consultant has completed Alternative Development for this project on March 31, 2022. In March 2022, staff updated the System Expansion Committee on the set of improvements to further study in the next phase of the project.

Phase II Kick Off was in April 2022. The staff completed Project Management and External Engagement Plans in June 2022. Currently working on community engagements, environmental reviews, conceptual design plans and reports, and methodology reports.

Selecting Delivery Method is expected during Q3 2023. Board selects projects to be built planned for end of Q1 2024.

The target Open for Service Date for this project is planned for Q4 2030.

Activity Name	Start	Finish	2	2023	2024	2025
			ı Q	Q Q Q Q	Q Q Q Q	Q Q Q Q
■ Lakewood Station Access Improvements - Master Schedule	02-May-22 A	31-Dec-30				
<b>■</b> Perliminary Engineering	02-May-22 A	23-Oct-25	-			<del></del>
□ Phase II - Conceptual Engineering	02-May-22 A	28-Mar-24	-		-	
Board Selects Projects to be Build	28-Mar-24	28-Mar-24	1		1	
□ Conceptual Engineering	02-May-22 A	12-Mar-24			-	
Phase 2 Draft SEPA and CE	02-May-22 A	31-Jan-24				
Prepare Cost Estimate	02-May-22 A	20-Mar-23		<b>+</b>		
DEA Performss and Completes CE/ENV	02-May-22 A	30-Nov-23				
External Engagement	01-Jun-22 A	25-Oct-23				
Finalize SEPA, Check List and Review	01-Jun-22 A	17-Nov-23				
Submit Cost Estimate	21-Mar-23	03-Apr-23		1		
Cost Estimates Review and Approval - Preferred Alt.	04-Apr-23	12-May-23				
Consultant prepare for QRA Sesstion	04-Apr-23	17-Apr-23		ı		
QRA Session	18-Apr-23	24-Apr-23		l I		
Finalize Schedule and Cost Estimates Per QRA Session Output	25-Apr-23	08-May-23		ı		
All Documents Due before Phase Gate Meeting	09-May-23	15-May-23		I		
Prepare for Gate 2: Select Delivery Method	15-May-23	31-Jul-23				
Publish SEPA	01-Dec-23	01-Dec-23				
Phasegate #2 Meeting - Confirm Delivery Method	01-Feb-24	01-Feb-24			I	
Prepare for Board Meeting	02-Feb-24	12-Mar-24				
■ Phase III - Preliminary Engineering	29-Mar-24	23-0ct-25			_	_
Right of Way	04-Mar-25	03-Mar-27				
<b>∓</b> Final Design	24-0ct-25	11-May-28				
<b>±</b> Construction	12-May-28	23-Sep-30				
Post Construction	24-Sep-30	31-Dec-30				

## Community Engagement.

- We closed the online open house on January 5 to share information and gather feedback on proposed improvements.
- We began drafting a summary of winter outreach.

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# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of Sound Transit 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.

Currently the project is trending under the planned staffing needs as the conceptual plans and reports are still under development and not ready for staff review. Staff are continuing to work on laying out assumptions for the improvements that will inform the conceptual design and are also developing materials for the upcoming activities planned for later in the year. As the conceptual design advances, we anticipate more staff will be needed.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	1.7	1.8	(0.1)
Consultants	4.0	2.5	1.5
TOTAL	5.7	4.3	1.4

<sup>\*</sup> An FTE is the equivalent of 1920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

## **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 a 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** \$81.9 Million

**Schedule** Open for Service: Q1 2023



Improving access to Sounder Puyallup Station

# **Key Project Activities**

- The BNSF completed signal bungalow modification.
- The City of Puyallup returned their comments on the draft operating agreement.
- Finalizing easements and dedications.

# **Closely Monitored Issues**

- Coordination of work with BNSF and the City of Puyallup required to execute off-site intersection and signal improvements.
- City leadership has linked the execution of the operating agreement regarding public use of parking during non-transit hours to the certificate of occupancy for the garage.

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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 \$295K. The incurred cost increased from \$75.9M to \$76.2M. The majority of this period's costs are attributed to staff costs, construction management services, and 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	\$5.5	\$5.0	\$5.0	\$5.5	\$0.0
Preliminary Engineering	\$2.9	\$2.6	\$2.6	\$2.6	\$2.6	\$0.0
Final Design	\$0.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction Services	\$5.2	\$5.7	\$5.7	\$5.2	\$5.7	\$0.0
3rd Party Agreements	\$2.2	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Construction	\$58.4	\$61.4	\$59.1	\$56.7	\$61.4	\$0.0
ROW	\$5.6	\$6.7	\$6.6	\$6.6	\$6.7	\$0.0
Total	\$79.1	\$81.9	\$79.1	\$76.2	\$81.9	\$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	\$33.8	\$31.2	\$31.4	\$33.8	\$0.0
30 Support Facilities	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
40 Sitework & Special Conditions	\$1.0	\$9.2	\$9.3	\$9.1	\$9.2	\$0.0
50 Systems	\$0.0	\$4.8	\$5.0	\$4.8	\$4.8	\$0.0
Construction Subtotal (10 - 50)	\$48.0	\$47.7	\$45.4	\$45.3	\$47.7	\$0.0
60 ROW, Land	\$5.4	\$6.7	\$6.6	\$6.6	\$6.7	\$0.0
80 Professional Services	\$22.0	\$27.4	\$27.0	\$24.3	\$27.4	\$0.0
90 Unallocated Contingency	\$3.7	\$0.1	\$0.0	\$0.0	\$0.1	\$0.0
Total (10 - 90)	\$79.1	\$81.9	\$79.1	\$76.2	\$81.9	\$0.0

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

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# **Contingency Management**

The Puyallup project budget was baselined in February 2019 with a total contingency of \$14.6M. Since baselining, there were drawdowns on AC and UAC to address the procurement of the design-build construction contract, design-building project management, and various construction change orders. The baseline contingency levels were insufficient and required an additional \$3.25M that was approved by the Sound Transit Board in April 2022.

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

**Allocated Contingency (AC)** is used to address risks, complexity and unforeseen conditions during the execution of work, including procurement. This period a net increase of \$140K was transferred to AC from UAC.

**Unallocated Contingency (UAC)** is used to address general project-wide cost risks and uncertainties. This period the UAC was reduced by \$215K due to extended staff costs as a result of construction delays and increased actuals for the BNSF work.

# Contingency Status (Monthly)

### Baseline Currrent Status Type % of Total Remaining % of Work Amount Budget Amount Remaining Design \$4.6 5.8% \$0.0 0.0% Allowance Allocated \$6.3 8.0% \$2.2 36.4% Contingency Unallocated \$3.7 4.7% \$0.1 1.3% Contingency \$14.6 Total: 18.4% \$2.3 37.6%

# Contingency by Type

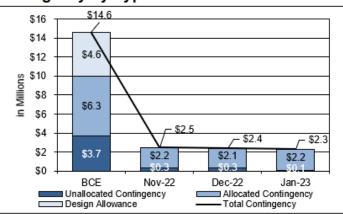


Table figures are shown in millions.

# **Risk Management**

The following are the top project wide risks:

- Coordination of the City of Puyallup and design-builder to execute off-site improvements (intersection and signal upgrades) takes longer than expected or incurs greater expense.
- City of Puyallup changing submittal requirements for intersection signalization impacts schedule, activities, and projected public opening date.
- Execution of operating agreement with the City of Puyallup impacts opening date.

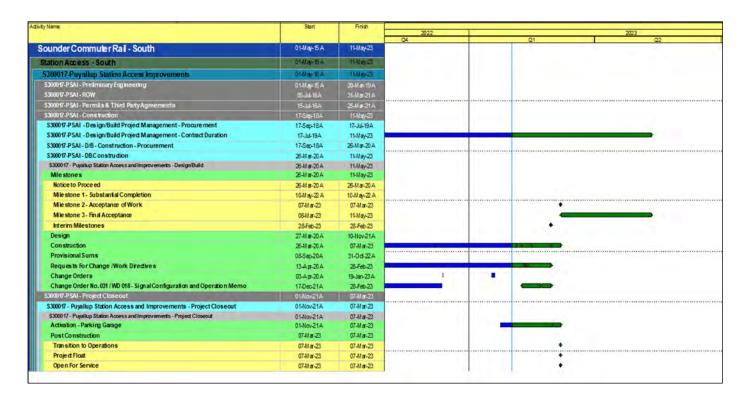
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# **Project Schedule**

The weighted percent complete for January is 99.7% based on invoicing forecasts. Change Order #32 has been issued to extend Milestone #1, Substantial Completion of the Parking Garage, 124 days to May 10, 2022. Milestone #1 Parking Garage Completion was completed in May 2022. Change Order #35 has been issued to extend Milestone #2 (Acceptance of All Work) 185 days to Dec. 11, 2022.

January 2023 schedule update has been submitted and is currently under review and is represented below. Traffic mitigation work is expected to be completed in Q1 2023.



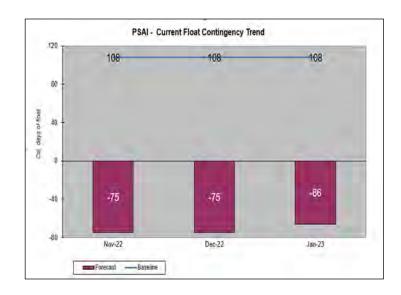
## **Project Float**

The Puyallup Station Access Improvements was baselined with 108 days of project float. The project team has received Sound Transit Board approval to move the open for service milestone to Dec. 31, 2022 due the traffic mitigation delays.

Substantial completion was granted to the parking garage in May. The open for service is trending to mid-March 2023.

Sound Transit and the contractor are working diligently to reduce impacts to the project.

A schedule submittal for January has been received, and noted in the graphic.

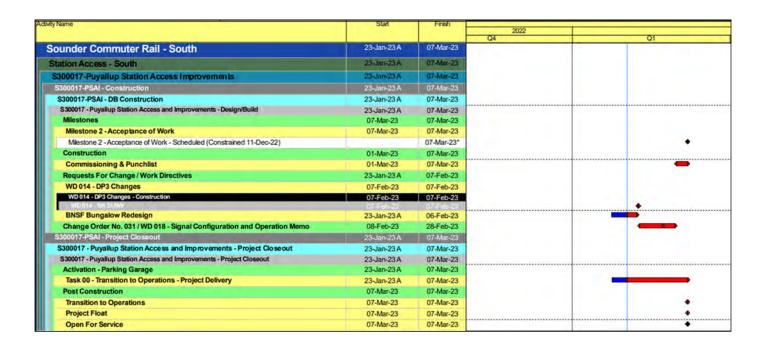


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# **Critical Path Analysis**

The critical path for the Puyallup Station Access Improvements is currently driven by the traffic mitigation activities. However, the work at the parking garage achieved substantial completion in May 2022. The traffic mitigation is expected to be complete in Q1 2023. We will continue to monitor the current critical path and the coordination with our third party partners (City of Puyallup and the BNSF) on traffic mitigation. The January 2023 schedule update is currently under review and shown below.



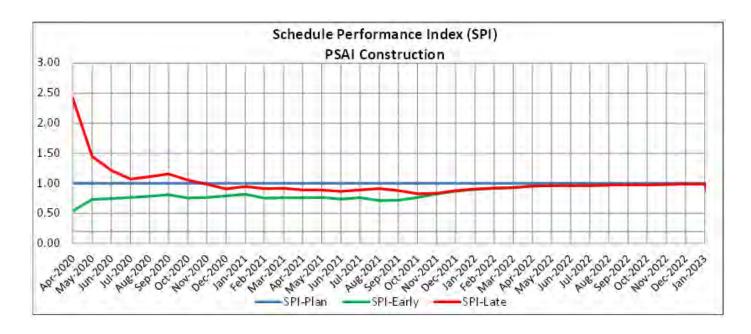
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## **Schedule Performance Index**

The early Schedule Performance Index (SPI) for the project is at 0.99 for this period, and the late SPI is at 0.99. An index under 1.0 indicates that the Contractor is behind schedule.

The schedule continues to show some time impacts due off-site improvements. The Contractor is working diligently to reduce these impacts to the project.



# **Community Engagement**

- We sent out a construction alert on January 19 about an intersection closure.
- We are continuing to plan communications materials and activities for the garage opening.

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# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of Sound Transit 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 delay in schedule has caused the actual FTE to extend beyond the annual projection of ST staff and consultants.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	1.7	2.7	(1.0)
Consultants	0.0	3.0	(3.0)
TOTAL	1.7	5.7	(4.0)

An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

### **Sound Transit Board Actions**

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

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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.

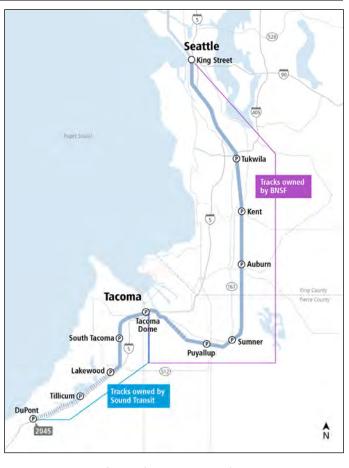
The Sounder Strategic Development and Implementation Plan is complete and includes a program of proposed capital projects.

Phase Planning

**Budget** \$21.1 Million

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

Program Element



Sounder South Capacity map alignment

# **Program Key Activities**

- The Federal Railroad Administration (FRA) awarded a \$10 million Consolidated Railroad Infrastructure & Safety Improvement (CRISI) grant to Sound Transit. This grant award funds, with a 50% Sound Transit match, conceptual engineering, environmental review and preliminary engineering for double track mainline projects on Sound Transit's rail corridor in Pierce County (Pierce County Rail Capacity and Reliability Improvement Project). The projects are anticipated to initiate in Q2 2023 after Sound Transit completes the requirements to obligate the FRA grant. Sound Transit and FRA to hold CRISI grant coordination meetings monthly.
- SSCE program elements and project specific activities are detailed in their own sections below.

King Street Station Platform Area Project and the CRISI grant projects are summarized on the next pages 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**

Continued planning for Conceptual Engineering and Environmental Review.

# **Community Engagement**

 We are planning for Phase 2 community engagement and are coordinating with the West Seattle and Ballard Link Extensions team.

# Pierce County Rail Capacity and Reliability Improvement Project

This project adds second tracks to several single track segments between Tacoma and Dupont on the Sound Transit-owned Lakewood Subdivision. Under the SSCE Program, the double track segments will be added between Tacoma and Lakewood along Sound Transit's right-of-way in Pierce County. Project elements may include additional crossovers and improvements to at-grade crossings to increase capacity and reliability for Sounder S Line, Amtrak Cascades and Amtrak Coast Starlight service. This project currently does **not** include any passenger-facing elements such as new stations or access improvements.

# **Key Activities**

Sound Transit continued work on grant administration items towards grant obligation, which is expected in Q1 2023.

# **Community Engagement**

Community outreach activities will begin when Sound Transit initiates the next phase of the project.

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## **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 by 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**

• The Auburn Platform Extension alternative analysis is complete. For the BNSF Platform Extension Project, that includes the Auburn Platform Extension Project, initiation of conceptual engineering and environmental review is paused consistent with the schedule identified in the capital program realignment and continued low ridership on the Sounder South corridor.

# **Community Engagement**

Community engagement is expected to begin when conceptual engineering gets underway.

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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.

This period expenditures increased by \$203K with the majority of the amount coming from staff costs, outreach, 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	\$9.9	\$2.8	\$2.9	\$9.9	\$0.0
Preliminary Engineering	\$20.4	\$5.9	\$2.6	\$20.4	\$0.0
Third Party Agreements	\$1.3	\$0.5	\$0.4	\$1.3	\$0.0
Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
ROW	\$3.1	\$0.2	\$0.0	\$3.1	\$0.0
Total	\$34.8	\$9.4	\$5.9	\$34.8	\$0.0

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

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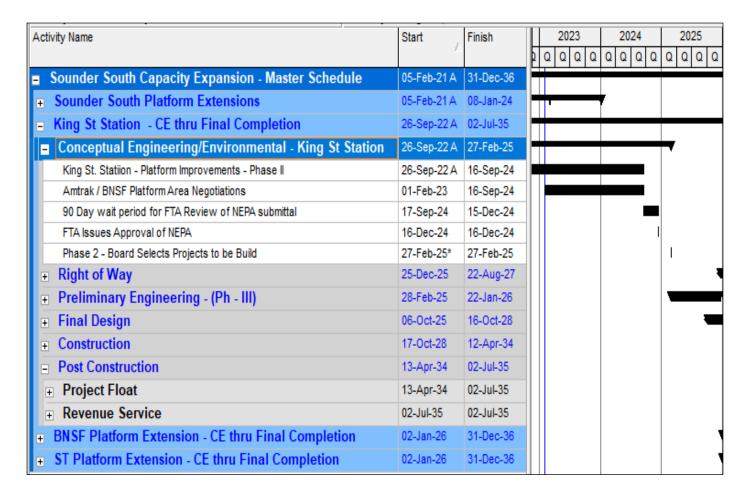


# **Project Schedule**

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

The second Mainline Track Study and Report were finalized and completed on July 28, 2021. Auburn Platform Alternative Analysis was completed on January 31, 2022. King St. Station Alternative Analysis and Report have been completed and issued in August 2022.

Staff briefed Board of the potential improvements to advance for further study at King Street Station in September 2022. King St. Station Alternative Analysis completed end of September 2022. Phase II started September 2022, and is expected to complete in Q3 2024. Current activities include conceptual design and development of Project Management and Public Involvement Draft Plans.



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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 Sound Transit 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 staffing variance is attributed to the majority of the SSCE Program's conceptual engineering and environmental activities being on pause from Q1 2022 to Q3 2022.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	3.8	5.1	(1.3)
Consultants	8.7	4.4	4.3
TOTAL	12.5	9.5	3.0

<sup>\*</sup> An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

## **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 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, weather shelters; parking options and more.

During Phase 2, the project will conceptually design the improvements and conduct an environmental review under SEPA.

Phase Planning Phase 2—Conceptual Engineering

and Environmental Review

**Budget** \$5.4 Million

Target Date: 2030



South Tacoma Station in Pierce County

# **Key Project Activities**

**Schedule** 

- Continued to meet with jurisdictional partners to finalize design assumptions.
- Continued conducting survey work on the proposed improvements.
- Continued planning for conceptual engineering.



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. The table summarizes costs in accordance with Sound Transit's budget Work Breakdown Structure (WBS). The figures are shown in millions.

This period expenditures increased by \$293K with the majority of the amount coming from staff costs, outreach, and Phase 2—Conceptual Engineering and Environmental Assessment 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	\$1.8	\$0.7	\$0.7	\$1.8	\$0.0
Preliminary Engineering	\$3.6	\$3.0	\$1.6	\$3.6	\$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
3rd Party Agreements	\$0.1	\$0.0	\$0.0	\$0.1	\$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	\$0.2	\$0.0	\$0.3	\$0.0
Total	\$5.8	\$3.9	\$2.3	\$5.8	\$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:

- Third party, stakeholders, or internal Sound Transit scope changes could lead to increased costs and delays to the schedule.
- Too many desired improvements may exceed the financial plan budget.

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# Sounder Commuter Rail South Tacoma Access Improvement



# **Project Schedule**

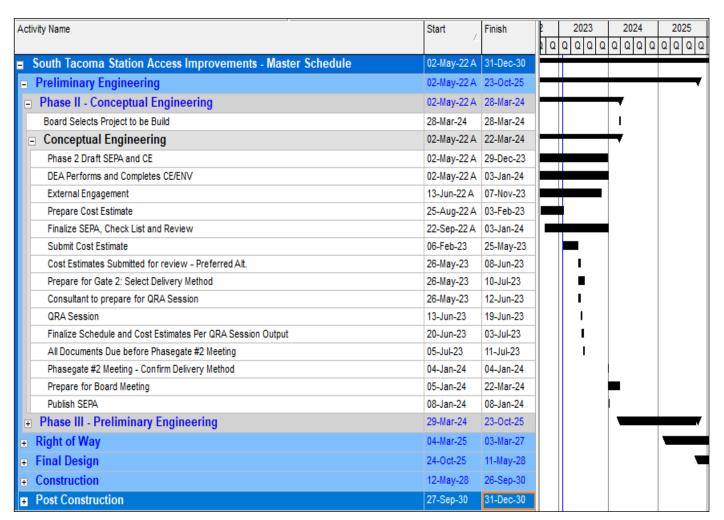
Scope of work covered by funding agreement, contract, statement of work, or similar executed commitment, is reflected in the schedule shown below.

Phase I - Alternative Development NTP was issued in December 2020. Consultant completed Alternative Development for this project on March 2022. Staff updated the System Expansion Committee on the set of improvements to further study in the next phase of the project in March 2022.

Phase II Kick Off was in April 2022. The staff completed Project Management and External Engagement Plans in June 2022. Currently working on community engagement, environmental, conceptual design, and methodology reports.

Selecting Delivery Method is expected early Q3 2023. Board selection of projects to be built is planned for end of Q1 2024.

The target Open for Service Date is planned for Q4 2030.



# **Community Engagement**

Continued finalizing a summary of fall outreach, which we expect to publish in February.

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# Sounder Commuter Rail South Tacoma Access Improvement



# **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of Sound Transit 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.

Currently the project is trending under the planned staffing needs as the conceptual plans and reports are still under development and not ready for staff review. Staff are continuing to work on laying out assumptions for the improvements that will inform the conceptual design and are also developing materials for the upcoming activities planned for later in the year. As the conceptual design advances, we anticipate more staff will be needed.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	1.3	1.8	(0.5)
Consultants	4.0	3.1	0.9
TOTAL	5.3	4.9	0.4

<sup>\*</sup> An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

## **Sound Transit Board Actions**

Board Action D	Description	Date
	None to report at this time.	

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# **Sounder Commuter Rail**

# **Sumner Kent Auburn Stations Parking & Access Improvements**



# **Project Summary**

### Scope

The project provides additional commuter parking at the Sounder stations located in the cities of Sumner, Kent and Auburn. All three locations will have a new multistory garage and potentially some amount of new surface parking stalls with the goal of building up to the environmentally cleared stall count within the project budget. Additionally, the project includes vehicular and pedestrian access improvements to the rail stations, non-motorized improvements, and associated utility, roadway, traffic, stormwater, lighting, and landscape improvements. The Kent station also includes an option to include scope for a bus layover facility for King County



Phase Complete Environmental / Enter Design &

Construction

**Budget** \$359.65 Million

Schedule Q2 2027

Sumner Station Parking & Access Improvements

Kent Station Parking & Access Improvements

# **Key Project Activities**

- Sound Transit Board approved Baseline for combined Sumner, Kent, and Auburn Stations Parking and Access Improvements project.
- Continued Temporary Construction Easements (TCEs) negotiations.

### Sumner:

• Coordinating with the City of Sumner regarding replacement parking during construction.

### Kent:

- Team developing final Request for Proposals (RFP) for issuance.
- Continued coordination with King County Metro to determine the requirements for a bus layover to be incorporated into the project as a Betterment.
- Continued coordination with City of Kent and King County Metro on non-motorized improvements.

## Auburn:

- City of Auburn real property interests are in negotiations.
- Assessing potential vibration impact to sensitive testing equipment at the MultiCare Auburn Medical Center.



Auburn Station Parking & Access Improvements

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# **Sounder Commuter Rail**Sumner Kent Auburn Stations Parking & 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 expenditures increased by \$394K. The incurred cost increased from \$33.4M to \$33.8M. 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	\$29.1	\$8.2	\$8.1	\$29.1	\$0.0
Preliminary Engineering	\$8.4	\$8.2	\$8.2	\$8.4	\$0.0
Final Design	\$1.0	\$0.0	\$0.0	\$1.0	\$0.0
Construction Services	\$29.1	\$4.0	\$1.9	\$29.1	\$0.0
3rd Party Agreements	\$8.2	\$7.9	\$5.5	\$8.2	\$0.0
Construction	\$258.2	\$0.1	\$0.1	\$258.2	\$0.0
ROW	\$25.7	\$10.5	\$10.0	\$25.7	\$0.0
Total	\$359.7	\$38.9	\$33.8	\$359.7	\$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:

- 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.
- Complexity of property acquisition could result in a delay to the start of construction and cause budget overrun.
- Project changes that occur during procurement that require additional environmental review could delay project.
- Constrained staffing resources could impact project delivery.
- Longer City of Kent permitting process in-lieu of executing a Development Agreement could delay project.

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# **Sounder Commuter Rail**Sumner Kent Auburn Stations Parking & Access Improvements

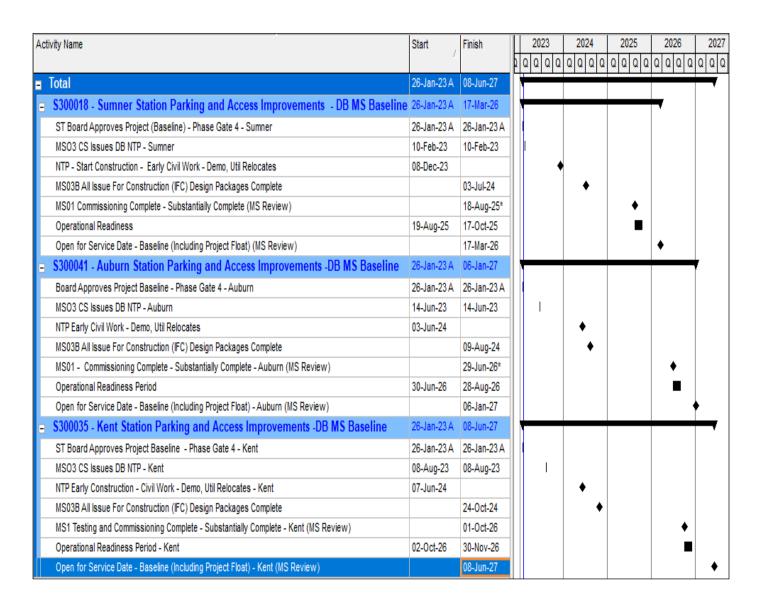


# **Project Schedule**

Board approved Baseline for the combined three projects on Jan. 26, 2023. The Approved Baseline open for service schedule is Q1 2026 Sumner, Q1 2027 Auburn, and Q2 2027 Kent. Milestone schedules for the combined three projects are shown below.

The project team has engaged the current Design-Build Project Management (DBPM) team to help with the development of the Design-Build Project Requirements for Auburn and Kent. Auburn Proposals are due in March 2023 and Kent Proposals are due in May 2023. Team started finalizing Sumner Contract and Execution. Other activities underway include continued property acquisition activities, expected to complete by end of Q4 2023.

Sumner Design-Build Notice to Proceed is expected in February 2023. Auburn and Kent Notice to Proceed expected in Q3 & Q4 2023, respectively.



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# **Sounder Commuter Rail Sumner Kent Auburn Stations Parking & Access Improvements**



# **Community Engagement**

- Sumner: We are continuing to plan for construction outreach. We distributed a project update newsletter in January to over 3,300 subscribers, announcing Board approval of a construction contract with Harbor Pacific Contractors.
- Kent and Auburn: 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 Sound Transit 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.

Less than anticipated level of effort by Sound Transit staff and consultants due to availability constraints of resources.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	22.0	11.7	10.3
Consultants	16.9	9.4	7.5
TOTAL	38.9	21.1	17.8
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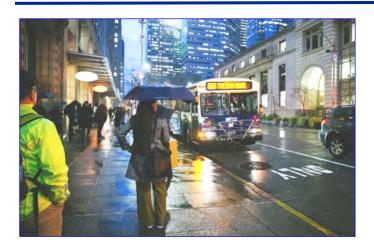
### \* An FTE is the equivalent of 1,920 hours. YTD performance FTE hours are divided by a monthly factor of 160.

# **Sound Transit Board Actions**

Board Action	Description	Date
R2023-02	Adopts the Sumner, Kent, and Auburn Stations Parking and Access Improvements project baseline schedule and budget by (a) combining the three project budgets into one project budget (b) increasing the authorized project allocation to date by \$299,119,865 from \$60,530,135 to \$359,650,000, (c) increasing the annual allocated budget by \$34,989,000 from \$16,516,000 to \$51,505,000, and (d) establishing project open for service dates of Q1 2026 for Sumner, Q2 2027 for Kent and Q1 2027 Auburn.	1/26/2023
M2023-01	Authorizes the Chief Executive Officer to execute a contract modification with HNTB Corporation to exercise contract options for design-build project management services during construction for the Sumner Parking and Access Improvement portion of the Auburn, Kent, Puyallup and Sumner Station Parking and Access Improvement project in the amount of \$6,710,000 for a new total authorized contract amount not to exceed \$16,215,552; contingent upon Board adoption of Resolution No. R2023-02, the Sumner, Kent, and Auburn Stations Parking and Access Improvements project baseline budget and schedule.	1/12/2023
M2023-02	Authorizes the Chief Executive Officer to execute a design-build contract with Harbor Pacific Contractors, Inc. for the Sumner Station Parking and Access Improvements Project in the amount of \$49,000,000, with a 12 percent base contingency of \$5,880,000, and authorizes an alternative concept allowance not to exceed \$5,000,000 to fund maximum cost of added value improvements for the Sumner Station Parking and Access Improvements Project for a total authorized contract amount not to exceed \$59,880,000; all contingent upon Board approval of Resolution No. R2023-02.	1/26/2023

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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 | 2023

F SoundTransit





ST Regional Express and STRIDE Rapid Transit 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 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, Business Access Transit (BAT) lanes, and bus-only lanes. Project elements include parking, station access improvements, and 11 pairs 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 Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Bus Base North	\$283.0	\$54.5	\$47.5	\$283.0	\$0.0
I-405 Bus Rapid Transit	\$866.4	\$666.9	\$136.9	\$866.4	\$0.0
SR 522/NE 145th St Bus Rapid Transit	\$250.6	\$93.1	\$67.9	\$250.6	\$0.0
Total	\$1,400.1	\$814.5	\$252.2	\$1,400.1	\$0.0

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

### **Program Schedule of Baseline Projects**

There are no baselined projects at this time. Please see the individual project reports for schedule information.

	'20	'21	'22	'23	'24	'25	'26	'27
REGIONAL EXPRESS AND STRIDE								
No Baseline Projects								

KEY:

Final Design (hatched indicates possible Design-Build; incl procurement)

Construction (thin hatched is procurement; incl Startup/Testing/Pre-Revenue/Float)



#### **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 Final Design

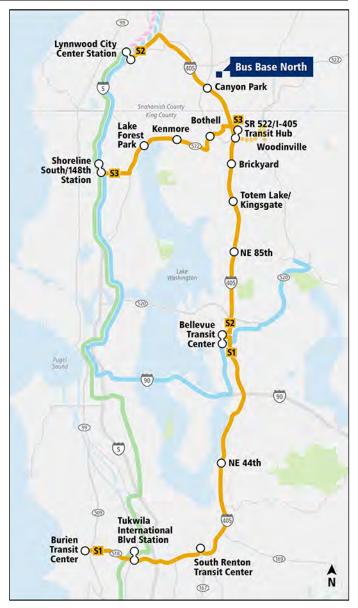
**Budget** \$283.0 Million for Preliminary

Engineering, Final Design, Property

Acquisition, Third Party Coordination, start

of construction.

**Schedule** Target Date: 2025



Map of Project Alignment

### **Key Project Activities**

- Ongoing coordination with project team and City of Bothell staff to discuss required thru-block connections and codeinterpretation items.
- BT001 Bus Base North project design progressing forward towards 60% milestone.
- Project team engagement with legal staff to advance the resolution of codes, covenants, and restrictions with the Canyon Park Business Center.
- STart led the artist selection panel for BT001 in January 2023 and will reconvene for shortlisted artist interviews in February.
- BT014 (BRT station shelters, furnishing & systems) project design progressing towards 60%. The project team is concurrently preparing to begin solicitation for a GCCM. RFQ/PA issuance for GCCM anticipated for Q1 2023.

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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.

As part of the Sound Transit Board approval of 2023 budget, the Authorized Project Allocation has been increased by \$219M to support program management with the general engineering consultant (GEC), final design progress and start procurement of construction contract.

The project cost incurred increased by around \$1.3M this period due to progress with the GEC for \$1.1M, and program management and Sound Transit staff for \$0.2M. It is also due to other expenditures in Third Party phase and on ROW related 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	\$10.2	\$5.4	\$4.9	\$10.2	\$0.0
Preliminary Engineering	\$1.9	\$1.6	\$1.5	\$1.9	\$0.0
Final Design	\$21.4	\$11.4	\$5.6	\$21.4	\$0.0
Construction Services	\$1.5	\$0.0	\$0.0	\$1.5	\$0.0
3rd Party Agreements	\$0.7	\$0.1	\$0.1	\$0.7	\$0.0
Construction	\$199.7	\$0.0	\$0.0	\$199.7	\$0.0
Right-of-Way (ROW)	\$47.7	\$35.9	\$35.3	\$47.7	\$0.0
Total	\$283.0	\$54.5	\$47.5	\$283.0	\$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 risks for the project:

- Potential budget impact due to higher inflation and higher construction costs. Continued to monitor the development of these issues and develop future cost estimates that capture the most current information.
- Soil conditions could require additional special foundations or ground improvements. Risk Response: Sound Transit has
  changed the design concept of the parking structure to move the staff parking above grade. Also, Sound Transit will be
  conducting additional review of soil testing and geotechnical borings during the design phase.
- Addressing the Business Park Codes, Covenants, and Restrictions (CC&R). Risk Response: Sound Transit will be
  performing additional noise and vibration analysis and actively working with the Business Park to resolve CC&R issues
  during design. Also, Sound Transit has changed the project delivery method to better address risks related to permitting and
  CC&R.
- Schedule delays could affect I-405 BRT and SR 522 BRT revenue service, depending on future phasing options.

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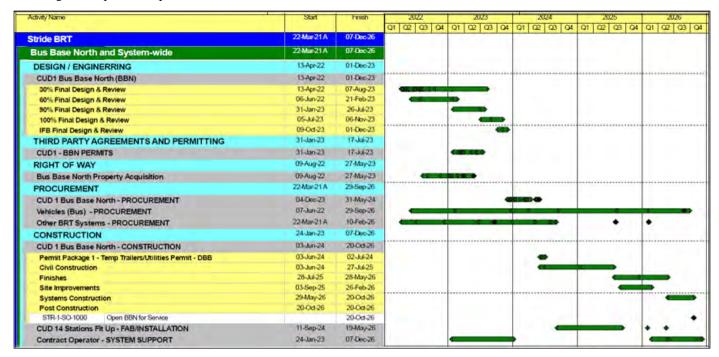


#### **Project Schedule**

The Board of Directors announced its realignment decision in August 2021. The upcoming project milestone is Project Baselining, which is anticipated in mid-2023. The team is formulating a plan and evaluating the timeline to allow the project to baseline with a high level of confidence.

The current critical path for Bus Base North is Final Design by the GEC then construction procurement, civil construction and finishes, then systems integration and testing. Activities that need to be monitored closely are acquiring rights to deviate from restrictive covenants (CC&Rs) that prohibit Sound Transit's proposed use for the property, developing project requirements, and permitting/agreements.

The current forecast for completion is Q4 2026, or about 10 months past the Sound Transit Board realignment milestone due to the need to do additional geotechnical investigation, addressing CC&R issues and the complexity of the facility. The realignment schedule is aggressive and staff have routinely informed the Board that the current schedule is inconsistent with the target and affordable schedule. Staff and consultants are working to identify which components of the project could be deemed "complete" by the realignment milestones, and whether or not an acceleration of the project would be feasible and cost-effective. Staff mitigated some schedule risk by changing the delivery method from design-build to design-bid-build to reduce procurement timeframes and gain efficiencies. Additionally, the staff is engaging permitting agencies early to obtain feedback on design concepts and requirements.



### **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.

January's focus included, but not limited to the following:

• Finalized Bus Base North project factsheet.

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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.

Property Acquisition Status							
ACQUISITION				RELOCATION			
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	to Relocations Required Relocations Co to date			
6	1	1	1	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 Sound Transit 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 data is showing the first month's actual FTE below the Planned FTE monthly average for the entire year of 2023. Staffing levels for both Sound Transit and consultants are expected to ramp up as the project is progressing toward the start of construction in 2024, which would reduce the variance number.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance
ST Staff	7.7	5.0	2.7
Consultants	43.0	21.5	21.5
TOTAL	50.7	26.5	24.2

<sup>\*</sup> An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 160.

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

<b>Board Action</b>	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 (SRTC), Tukwila International Blvd

Station, Burien Transit Center

Phase Final Design

**Budget** \$866.4 Million for Preliminary

Engineering, 100% Final Design, and funding for improvements at the NE 44th, NE 85th, and Brickyard to Canyon Park.

**Schedule** Target Date: 2026 for Service Line 1 (S1);

2027 for Service Line 2 (S2); not including

parking elements



Map of Project Alignment

### **Key Project Activities**

- Remediation work for BT105, South Renton Transit Center by Engineering Remediation Resources Group (ERRG) has completed and project closeout currently in progress.
- Preliminary design is underway to support inductive charging at Burien TC and downtown Bellevue layover for BT102 including 60% design underway for all three locations (Bellevue, Burien and SR 167 roadwork) covered under this project.
- Notice to Proceed (NTP) has been issued by WSDOT for Graham Contracting Ltd. which identifies as Apparent Best Value proposer for the I-405/NE 85th Interchange and BRT Station Project.
- BT212 Poplar Way and 196th/36th St. Lynnwood Roadway Improvements 60%-100% design and final IFB scope of work with GEC is progressing towards finalization with anticipated task order execution in Q1 2023.

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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.

As part of the Sound Transit Board approval of 2023 budget, the Authorized Project Allocation has been increased by \$162.4M to complete Final Design, start procurement of buses and bus operational technology and continue construction with WSDOT.

This period expenditures increased by \$3.4M total. It is contributed by \$1.9M from the design and construction of WSDOT-led projects, \$0.7M from the engineering and program management by the GEC, \$0.4M for completed WSDOT PE, \$0.1M in ST staff costs, and other small project expenditures.

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

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$24.2	\$15.9	\$15.1	\$24.2	\$0.0
Preliminary Engineering	\$43.5	\$45.3	\$37.5	\$43.5	\$0.0
Final Design	\$21.4	\$10.6	\$4.5	\$21.4	\$0.0
Construction Services	\$2.8	\$1.7	\$0.3	\$2.8	\$0.0
Third Party Agreements	\$4.6	\$1.1	\$0.9	\$4.6	\$0.0
Construction	\$664.8	\$561.2	\$49.8	\$664.8	\$0.0
Vehicles	\$58.0	\$0	\$0	\$58.0	\$0.0
Right-of-Way (ROW)	\$47.1	\$30.9	\$28.7	\$47.1	\$0.0
Total	\$866.4	\$666.9	\$136.9	\$866.4	\$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 top project risks and response plan:

- Potential budget impact due to higher inflation and higher real estate costs. Continued to monitor the development of these issues and develop future cost estimates that capture the most current information.
- Sound Transit is partnered with WSDOT on several WSDOT-delivered projects. Delays or cost overruns could impact the
  service and start date for the I-405 BRT. Risk response: Close coordination with WSDOT by integrating BRT milestones
  into the WSDOT schedule; having Sound Transit staff and consultant participating in design and constructability reviews
  for BRT related facilities; and expedite reviews and decisions that need to be made by Sound Transit for WSDOT-delivered
  projects, which include:
  - NE 85th / I-405 Interchange
  - Tukwila International Boulevard Station
  - NE 44th Park-and-Ride amendment
  - Brickyard to SR 527, North Express Toll Lanes.

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#### **Project Schedule**

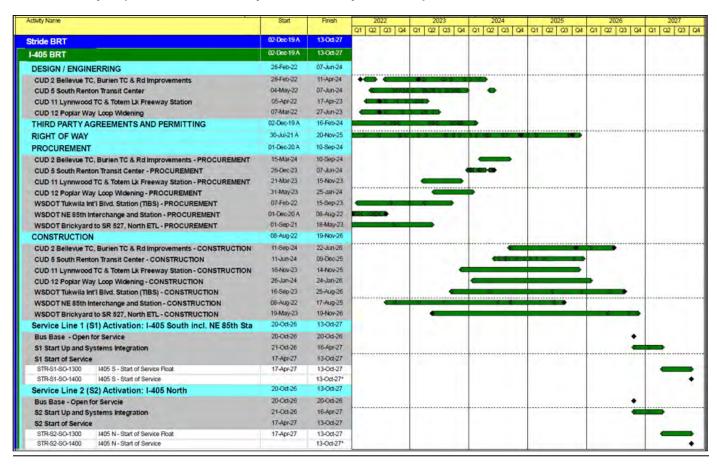
The Board of Directors announced its realignment decision in August 2021. The upcoming project milestone is Project Baselining, which is anticipated in mid-2023. The team is formulating a plan and evaluating the timeline to allow the project to baseline with a high level of confidence.

The current critical path for the I-405 BRT project is through Tukwila International Blvd Station Improvements in coordination with WSDOT, commissioning and testing, and project float contingency to service line activation.

I-405 S, Service Line S1 opening is trending toward 2028, which is 12+ months beyond the Sound Transit Board realignment target. The trend reflects the extended duration needed to finalize and execute the preliminary design agreement with WSDOT, which pushed out the design-build procurement timeline and eventual construction completion of the Tukwila International Blvd Station. The schedule graphic below has not been updated to reflect this development because additional studies and schedule risk assessments are being conducted to formulate a new plan and inform the upcoming baseline action. However, it is increasingly clear that the realignment target date may not be met without changing the operation plan, or substantially adding costs to the project. The realignment schedule is aggressive and staff informed the Board throughout 2022 that the current schedule is inconsistent with the target and affordable schedule.

I-405 N, Service Line S2 opening is also trending toward 2028 completion, which is behind the 2027 Board realignment target. Due to multiple simultaneous procurements of WSDOT's construction projects, and the current state of the construction industry, WSDOT delayed the procurement of the I-405 North ETL. Additionally, the construction duration allowed for this project has been prolonged due to the size and complexity of the project. Similar to S1, the schedule graphic below has not yet been updated to reflect this development because additional studies and schedule risk assessments are still being conducted to formulate a new plan and inform the upcoming baseline action.

There are 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 WSDOT's I-405 North 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 COVID-19, outreach efforts have shifted to virtual platforms.

January's focus included, but not limited to the following:

• Developed content for online open house for 2023.

### 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.

Property Acquisition Status								
ACQUISITION				RELOCATION				
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date			
42	22	13	5	5	5			

\*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

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### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of Sound Transit 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 data is showing the first month's actual FTE below the Planned FTE monthly average for the entire year 2023. Staffing levels for both ST and consultants are expected to ramp up as the project is progressing toward the start of construction in 2024, which would reduce the variance number.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance			
ST Staff	12.9	9.3	3.6			
Consultants	32.0	18.7	13.3			
TOTAL	44.9	28.0	16.9			
* An ETE is the equivalent of 2080 hours. YTD performance ETE hours are divided by a monthly factor of 160						

An FTE is the equivalent of 2080 hours. YTD performance FTE hours are divided by a monthly factor of 160

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

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

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### **Project Summary**

Scope Launch a Bus Rapid Transit (BRT) system

in the SR 522 / SR 523 Corridor between the Shoreline South/148th light rail station and the SR 522/I-405 Transit Hub near UW

Bothell campus.

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 14 BRT stations along NE 145th and SR

522 in Shoreline, Lake Forest Park,

Kenmore, and Bothell.

Systems BRT Operations & Transit Signal Priority

Phase Final Design

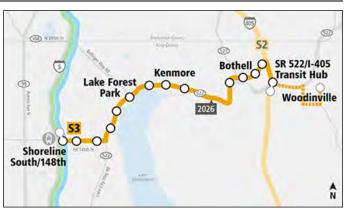
**Budget** \$250.6 Million for Preliminary

Engineering, 100% Final Design, 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**

- The 60% design for the Bothell segment of BRT (contract unit BT307) in current review by Sound Transit and third parties is nearly complete.
- BT306 advancing to 90% design (NE 145th to Kenmore) anticipated for Sound Transit's review late April 2023.
- Scope of work and cost estimate for BT307 in development to 90%/IFB phase of work.
- Project team is moving forward with design for inductive charging for the battery electric buses at 148th / S. Shoreline Station, and I-405/SR 522 Transit Hub.

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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.

As part of Sound Transit Board Approval of 2023 budget, the Authorized Project Allocation has been increased by \$41.5M to support completion of Final Design, start procurement of electric buses and Bus Operational Technologies, continue acquisition.

This period expenditures increased by \$1.8M due to progress in final design and program management with the GEC for \$1.4M, Sound Transit staff costs for \$0.1M, \$0.3M for ROW activities, and other small project expenditures.

**Cost Summary by Phase** 

Project Phase	Authorized Project Allocation	Commitment to Date	Incurred to Date	Estimated Final Cost (EFC)	Authorized Allocation vs. EFC
Administration	\$18.8	\$12.2	\$11.5	\$18.8	\$0.0
Preliminary Engineering	\$15.5	\$15.4	\$15.3	\$15.5	\$0.0
Final Design	\$41.5	\$22.6	\$12.8	\$41.5	\$0.0
Construction Services	\$1.5	\$0.0	\$0.0	\$1.5	\$0.0
3rd Party Agreements	\$7.9	\$1.3	\$0.8	\$7.9	\$0.0
Construction	\$51.0	\$35.0	\$24.5	\$51.0	\$0.0
Vehicles	\$30.0	\$0	\$0	\$30.0	\$0.0
Right-of-Way (ROW)	\$84.4	\$6.7	\$3.0	\$84.4	\$0.0
Total	\$250.6	\$93.1	\$67.9	\$250.6	\$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 response plan:

- Potential budget impact due to higher inflation and higher real estate costs. Continued to monitor the development of these issues and develop future cost estimates that capture the most current information.
- The improvements for the BRT in the SR 522/NE 145th Street corridor are complex. Staff has been working in close
  coordination with multiple project partners on the project development, design, property acquisitions, permitting process,
  and construction activities.
- Early concurrence on project components is a key effort of project development through ongoing coordination with the
  Project Interagency Coordination Group, City Managers Group, and Elected Leadership Group. Letters of concurrence were
  secured prior to beginning 30% design. Additional efforts are underway to secure concurrence as the project advances into
  final design.
- Coordination of project on NE 145th with WSDOT and the cities of Seattle and Shoreline complex jurisdictional situation
  and third partner expectation for Sound Transit capital investment. Partner agency staff are actively working towards a
  solution.
- Aggressive realignment schedule could lead to higher cost if directed to accelerate to meet the Board's realignment
  milestone. The team is actively looking for cost efficient opportunities to meet the target date, such as working with the
  local jurisdictions to streamline their permitting process.

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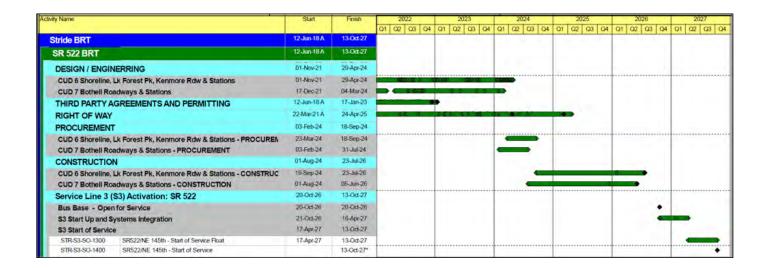
#### **Project Schedule**

The Board of Directors announced its realignment decision in August 2021. The upcoming project milestone is Project Baselining, which is anticipated in mid-2023. The team is formulating a plan and evaluating the timeline to allow the project to baseline with a high level of confidence.

There are two critical paths for the SR 522/NE 145th BRT project opening. The most critical path is through the completion of the Bus Base North and integrated systems testing of the SR 522 corridor. A near critical path is the completion of final design and ROW acquisitions for the SR 522/NE 145th Roadways in Shoreline, Lake Forest Park and Kenmore needed to start construction. Both paths are monitored closely along with permitting/agreements by the team.

The current forecast for completion is Q4 2027, including 180 days float, or a total of about 10 months past the Sound Transit Board realignment target. The realignment schedule is aggressive, and staff have routinely informed the Board that the current schedule is inconsistent with the target and affordable schedule. Sound Transit staff is working with the Authorities Having Jurisdiction (AHJs) in the corridor on plans to streamline the permitting process for the project.

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 SR 522 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 COVID-19, outreach efforts have shifted to virtual platforms.

January's focus included, but not limited to the following:

- Preparing content for online open house.
- 31 communications with members of the Lake Forest Park community.

### 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 easements 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. Board Resolution R2023-03 authorized an additional 52 parcels.

Property Acquisition Status							
ACQUISITION RELOCATION							
Total Acquisitions*	Board Approved*	Offers Made to date	Closings to date	Relocations Required	Relocations Completed to date		
198	198	8	1	13	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

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### **Staffing Summary**

The planned Full-Time Equivalent (FTE) is an annual projection of Sound Transit 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.

Planned FTE is an annual projection. The variance will reduce once final design accelerates.

The data is showing the first month's actual FTE below the Planned FTE monthly average for the entire year 2023. Staffing level of the consultants is expected to ramp up as the project is progressing toward the start of construction in 2024, which would reduce the variance number.

Resource Type	Planned FTE Monthly Average	YTD Actual FTE Monthly Average	Variance	
ST Staff	13.0	14.8	(1.8)	
Consultants	54.0	47.7	6.3	
TOTAL 67.0		62.5	4.5	

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
R2023-03	To Acquire Real Property Interests required for the SR522 BRT Project	01/12/2023

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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	Drawdown to Date	Status
FEDERAL TRANSIT AUTHORITY	Y					
LINK LIGHT RAIL	WA-03-0237	University Link Extension	684,370,641	09/16/2015	616,446,915	Active
LINK LIGHT RAIL	WA-2018-013	Hilltop Tacoma Link Extension SYGA	74,999,999	05/15/2018	74,521,731	Active
SOUNDER COMMUTER RAIL	WA-2018-015	Sounder Rolling Stock	7,800,002	12/30/2019	-	Active
LINK LIGHT RAIL	WA-2019-001	Lynnwood Link Extension FFGA	671,983,701	07/29/2022	664,776,848	Active
LINK LIGHT RAIL	WA-2020-001	Federal Way Link Extension	471,983,701	07/29/2022	287,781,779	Active
SOUNDER COMMUTER RAIL	WA-2020-002	S Sounder Capacity Exansion	5,600,000	12/13/2019	1,961,717	Active
REGIONAL EXPRESS	WA-2020-007	I-405 Bus Rapid Transit- Bus Procurement	5,400,000	12/21/2020	-	Active
LINK LIGHT RAIL	WA-2021-004	Everett Link Extension Model Code Partne	2,000,000	12/31/2020	290,995	Active
REGIONAL EXPRESS	WA-2021-012	SR 522/NE 145th BRT Vehicles	4,800,000	02/25/2021	-	Active
SOUNDER COMMUTER RAIL	WA-2021-085	Auburn Station Access Improvments	1,500,000	09/10/2021	-	Active
Bus RAPID Transit	WA-2021-115	I-405 BRT Expansion Buses	7,255,465	09/18/2021	-	Active
SOUNDER COMMUTER RAIL	WA-2021-140	20 CARSI/5307 Enhance at Puyallup CR Stn	1,421,500	10/28/2021	232,899	Active
REGIONAL FUND	WA-2021-141	ARP Act 2021-Operating Expense	275,258,761	10/28/2021	275,258,761	Active
REGIONAL EXPRESS	WA-2022-055	Bus Replacements	1,438,436	09/07/2022	1,438,436	Active
LINK LT RAIL & SOUNDER	WA-2022-065	Rail State of Good Repair - PIMS	3,668,478	09/15/2022	-	Active
13.4.0		TOTAL FEDERAL TRANSIT AUTHORITY	2,219,480,684		1,922,710,081	
OTHER FEDERAL						
REGIONAL FUND	EMW-2019-RA-00	01-ATAT, Crit Evnt OT, Fac Hardening	1,315,813	09/01/2019	1,263,614	Active
REGIONAL FUND	EMW-2020-RA-00	02:Crit Evnt OT, CEDO	642,738	08/10/2020	466,513	Active
REGIONAL FUND	EMW-2022-RA-00	00(DSTT, CEDO	2,963,635	09/06/2022	-	Active
		TOTAL OTHER FEDERAL	4,922,186		1,730,127	
STATE						
REGIONAL FUND	19-92501-015	Agency Energy Efficiency Project	197,000	06/03/2019	-	Active
		TOTAL STATE	197,000			
		TOTAL ALL GRANTS	2.224.599.870		1,924,440,208	
		- ISTAL ALL GRANTS	_,,		1,02-1,-1-0,200	

Above table as of Q4 2022. 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 2022, 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 2022

- Continued work on the Zero Emission Bus Transition Plan work.
- Awarded contracts for On-Call Sustainability Services and ISO 14001 Registration Services.
- Presented to the Board of Directors on progress towards the Sustainability Plan.
- Issued a Request for Proposers for a credit aggregator to participate in the Washington State's Clean Fuel Standard program.
- Completed the ESMS external surveillance audit with registrar.
- Developed 2023 Environmental and Sustainability targets.
- Hosted two lunch and learns for agency staff.
- Presented on Sustainability Framework's for APTA Transform conference.

#### **Key Upcoming Activities for Q1 2023**

- Present to the Board of Directors on Clean Fuel Standard revenue generation.
- Begin data collection for 2022 Annual Sustainability Progress Report and greenhouse gas inventory.
- Finalize first draft feasibility results for agency Zero Emission Bus Transition Plan.

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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	ECEIC	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	IDS	International District Station
CDF	Controlled Density Fill	IFB	Issue for Bids
CHS	Capitol Hill Station	IEC	Issue for Construction, also Industry
CM	Construction Management	IFC	Foundation Classes
CMU	Concrete Masonry Unit	IRT	Independent Review Team
CO	Change Order	IWP	Industrial Waste Permit
CPI	Cost Performance Index	JA	Jacobs Associates
CPM	Critical Path Method	JARPA	Joint Aquatic Resource Permit Application
DAHP	Department of Archaeology & History Preservation	KCM	King County Metro
DADT		LNTP	Limited Notice to Proceed
DART	Days Away, Restricted or Modified	LRRP	Light Rail Review Panel
DB DBPM	Design-Build Design-Build Project Management	LRT	Light Rail Transit
DBFM DCE	Document Categorical Exclusion	LRV	Light Rail Vehicle
DCE	-	LTK	LTK Engineering Services
DECM	Design, Engineering and Construction  Management	MACC	Maximum Allowable Construction Cost
DEIS	Draft Environmental Impact Statement	MBT	Mount Baker Tunnel
DP	Design Package	MEPF	Mechanical/Electrical/Plumbing/Fire Sprinkler
DPD	Seattle Department of Planning and Development	MI	Mercer Island
		MLK	Martin Luther King, Jr. Way
DSC	Differing Site Conditions	MOA	Memorandum of Agreement
DSDC	Design Support During Construction	MOU	Memorandum of Understanding
DSTT	Downtown Seattle Transit Tunnel	MOW	Maintenance of Way
EFC	Estimated Final Cost	MPPCV	Major Public Project Construction Variance
EMI	Electro Magnetic Interference	MRB	Material Review Board
ERC	East Rail Corridor	MUP	Master Use Permit

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### **Acronyms**



NB	Northbound	SCC	Standard Cost Categories
NCR	Notification of Change Report	SCL	Seattle City Light
NCTP	North Corridor Transit Partners	SDEIS	Supplemental Draft Environmental Impact
NEPA	National Environmental Policy Act		Statement
NOAA	National Oceanic and Atmospheric	SEPA	State Environmental Policy Act
	Administration	SIP	Street Improvement Permitting
NPDES	National Pollutant Discharge Elimination System	SPI	Schedule Performance Index
NTP	Notice to Proceed	SOW	Scope of Work
ocs	Overhead Catenary System	SR	State Route
OMF	Operations and Maintenance Facility	ST	Sound Transit
OMSF	Operations and Maintenance Satellite Facility	START	Seattle Tunnel and Rail Team
PA	Public Address System	SWI	Stacy and Witbeck, Inc.
PE	Preliminary Engineering	TBM	Tunnel Boring Machine
PEP	Project Execution Plan	TCAL	Temporary Construction Airspace Lease
	Planning, Environment and Project	TCE	Temporary Construction Easement
PEPD	Development and Project	TE	Traction Electrification
<b>PMOC</b>	Project Management Oversight Consultant	TFK	Traylor Frontier Kemper Joint Venture
PSST	Pine Street Stub Tunnel	TOD	Transit Oriented Development
P&R	Park and Ride	TPSS	Traction Power Substations
Q	Quarter	TVM	Ticket Vending Machine
QA	Quality Assurance	UAC	Unallocated Contingency
QC	Quality Control	U-Link	University Link project
QRA	Quantitative Risk Analysis	UDS	University District Station
RE	Resident Engineer	USFWS	U.S. Fish and Wildlife Service
RFC	Request for Change	UW	University Of Washington
RFD	Request for Deviation	UST	Underground Storage Tank
RFI	Request for Information	UWS	University of Washington Station
RFP	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		
RSD	Revenue Service Date	WCDOT	Washington Department of Fish and Wildlife
SB	Southbound	WSDOT	Washington Department of Transportation
SCADA	Supervisory Central and Data Acquisition		

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