

At-grade Crossings Program

Draft Master Plan

Board of Directors
11/21/2024



Why we're here today

In alignment with Motion No. M2024-45

"...(4) deliver a Rainier Valley Safety Master Plan of potential at-grade crossing safety improvements to the Board... followed by a systemwide at-grade crossing safety plan in November 2024..."

Draft Master Plan

- Program priorities
- Completed work
- Objectives
- Current projects
- Regional & internal coordination
- Engagement

Next steps
















Program priorities

- Reduce collisions and near misses with vehicles and pedestrians.
- Provide a consistent and safe passenger experience systemwide.
- Provide reliable service without degradation to operational performance.
- Increase accessibility of the Sound Transit network for all.
- Build positive, proactive relationships with surrounding communities that foster trust and increase perception of safety of Sound Transit's service.



Completed Projects

Project Type	Project Name	Safety Focus Area	Completion Date
Signage Enhancement	+ LED flashing no left turn signs	 	Mar 2022
Signage Enhancement	+ LED flashing another train coming signs at station intersections	 	Sep 2023
Signage Enhancement	+ Other signage updates	 	Jan 2024
Pavement Markings	+ R X R pavement markings in left turn pockets	 	Jun 2021
Pavement Markings	+ “LOOK” pavement markings	 	Sep 2023
Pavement Markings	+ Corridor pavement marking refresh	 	Sep 2023
Traffic Signal Enhancements	+ Leading pedestrian intervals	 	Aug 2023
Traffic Signal Enhancements	+ Retroreflective tape added to signal heads	 	May 2024
Traffic Signal Enhancements	• Signal reprioritization pilot	 	Jun 2024

- + (Preliminary results indicate positive findings)
- (Not included in data analysis)




Master Plan objectives





































Process of Continuous Safety Enhancements




- Establish criteria for identifying and prioritizing enhancements and advancing investments
- Provide a transparent process for program and project decisions
- Collaborate with the public and regional partners
- Identify safety enhancement projects, considerations, and costs
- Summarize corridor data trends before and after project implementation

Current Projects

-  Link Light Rail
-  Sounder
-  Pedestrian
-  Vehicle

Project Type	Mode	Project Name (Near-term 2025-2026)	Safety Focus Area	Cost Range	Target Completion Date
Planning	Sounder	Crossing Evaluation and safety analysis at Bridgeport Way S, S 74 th St, S 56 th St (Sounder Lakewood Subdivision)	   	\$200k-\$250k	Q2 2025
Planning	Sounder	Crossing Evaluation and safety analysis on 16 at-grade crossings (Sounder Lakewood Subdivision)	   	\$700k-\$1M	Q4 2025
Pavement Marking	Link	Trackway Visibility Pavement Markings Pilot	   	\$800k-\$1M	Q3 2025
Technology	Link	SMART Grant: Rainier Valley Safe Project Pilot, Phase 1	   	\$2.5M	Q3 2025
Train Enhancement	Link	LRV Audible Warning Modifications Pilot	   	\$0	Q1 2025
Signage Enhancement	Link	Another Train Coming Signage Between Stations	   	\$2M-\$3M	Q4 2025
Infrastructure	Link	Royal Brougham Way & SODO Busway At-Grade Crossing Upgrades	   	\$4M-5M	Q4 2025
Infrastructure	Link	Holgate St & SODO Busway At-Grade Crossing Upgrades	   	\$700k-1M	Q4 2025
Infrastructure	Link	Lander St & SODO Busway At-Grade Crossing Upgrades	   	\$1M-2M	Q4 2025

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Project Type	Mode	Project Name (Near-term 2025-2026)	Safety Focus Area	Cost Range	Target Completion Date
Planning	Link	Data collection, inventory, and input on new standards (T Line)	   	TBD	Q4 2026
Train Enhancement	Link	Alternating (Wig Wag) Train Headlights	   	\$2.5M	Q1 2026
Infrastructure Project	Link	Automatic Pedestrian Gate Pilot, Phase 1	   	\$8M–\$11M	Q2 2026
Signage Enhancement	Link	Additional Static Signage and Delineators	   	\$400k–\$800k	TBD
Signage Enhancement	Link	Another Train Coming Sign Enhancements	   	\$300k–\$500k	TBD
Project Type	Mode	Project Name (Mid-term 2027-2029)	Safety Focus Area	Cost Range	Target Completion Date
Infrastructure	Link	Automatic Pedestrian Gate Pilot, Phase 2	   	\$6M–\$10M	Q1 2027
Infrastructure Project	Link	SMART Grant: Rainier Valley Safe Project Pilot, Phase 2	   	\$15M	TBD
Infrastructure	Link	Pedestrian Crossing Upgrades Between Stations	   	\$20M–\$40M	TBD

Regional & Internal Coordination

Regional Partners

- Regional partners are responsible for implementing significant changes to their roadways and the operation of traffic signal systems, including:
 - Vehicle speed limit changes
 - Lane reductions
 - Vehicle & Pedestrian gates
 - Restricted movements, closing or consolidating intersections
- Permitting
- Maintenance & Operations Agreements

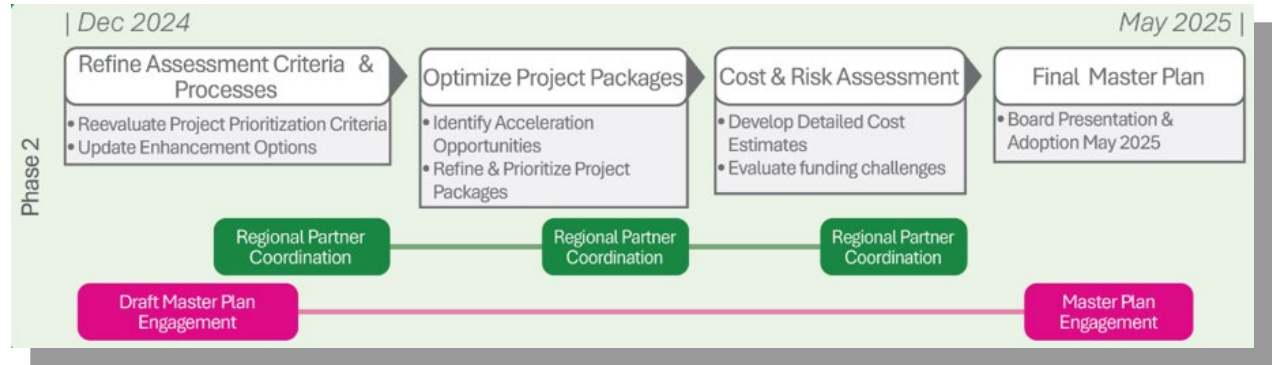
Other Sound Transit Projects

- Share lessons learned and project updates and strategies
- Collaborate on safety enhancement projects to identify project efficiencies and streamline processes
- Development of design requirements

Advancing the Master Plan projects

Phase 2 is focused on the steps needed to advance and finalize the Master Plan between **December 2024 – May 2025**

This phase will integrate feedback from the Board, gather and integrate community feedback on assessment criteria and enhancements, and continue coordination with SDOT



Program Engagement

Three Focus Areas

Master Plan Engagement

Fall 2024 – Spring 2025

Project Development and Construction

Beginning as early as Winter 2024

Ongoing Safety Education and Awareness

Tailored, Equity-Focused Engagement

Connecting with communities where they are

Tailored, Equity-Focused Engagement

Connecting with communities where they are



Local events, fairs, and festivals



Multicultural engagement and media



Visually rich accessible materials



Canvassing businesses, neighbors, and community-gathering spaces.

Next Steps

Community Engagement Continues

- 3-Year Engagement & Communications Plan
 - Prioritize equity-centered engagement and community-based organization coordination to shape plan implementation
 - Focus on in-person and community events and promote January open house

May 2025 Board Meeting

- Presentation of final At-grade Crossing Master Plan

Key Early Engagement Actions

November

- Identify & orient Community Liaisons
- Community-based organization briefings
- Launch website
- Develop education & awareness campaign
- Initiate canvassing
- Expand youth engagement
- Media & social media outreach
- Develop online open house & survey

December

- Launch canvassing
- Plan in-person & online open house
- Develop postcard mailer
- Prepare posters
- Plan community liaison events

Thank you.



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