

# I-5 ROSE QUARTER IMPROVEMENT PROJECT

Portland Public Schools  
Intergovernmental Committee



# PROJECT OVERVIEW & BENEFITS

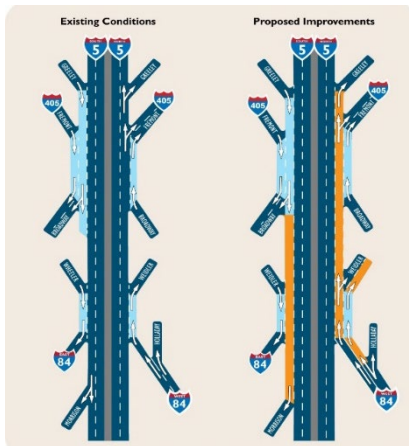




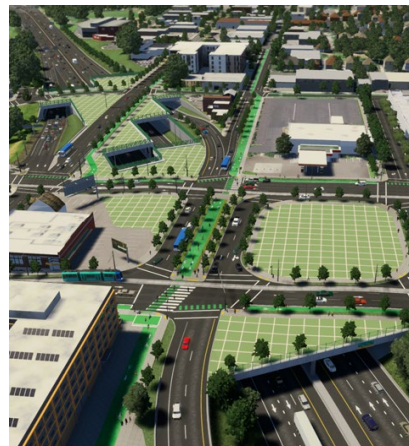




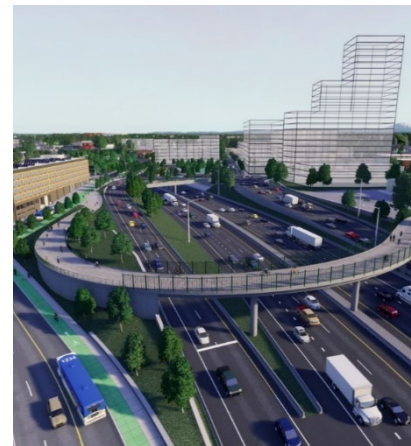
# Project Elements



**I-5 Mainline**



**Highway  
Covers**



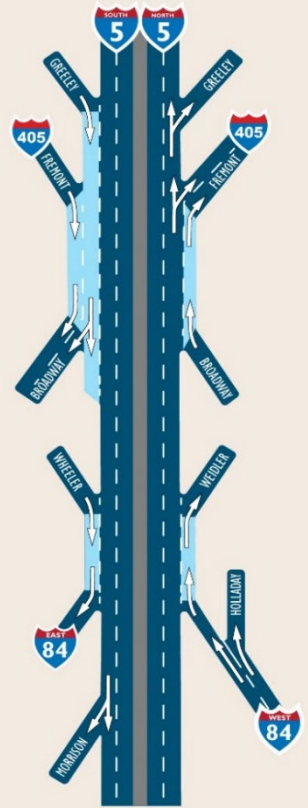
**Clackamas  
Pedestrian and  
Bicycle Crossing**



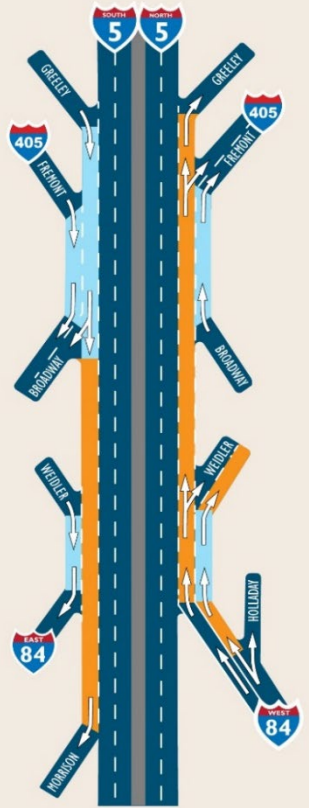
**Multimodal Local  
Street  
Improvements**



**Existing Conditions**



**Proposed Improvements**

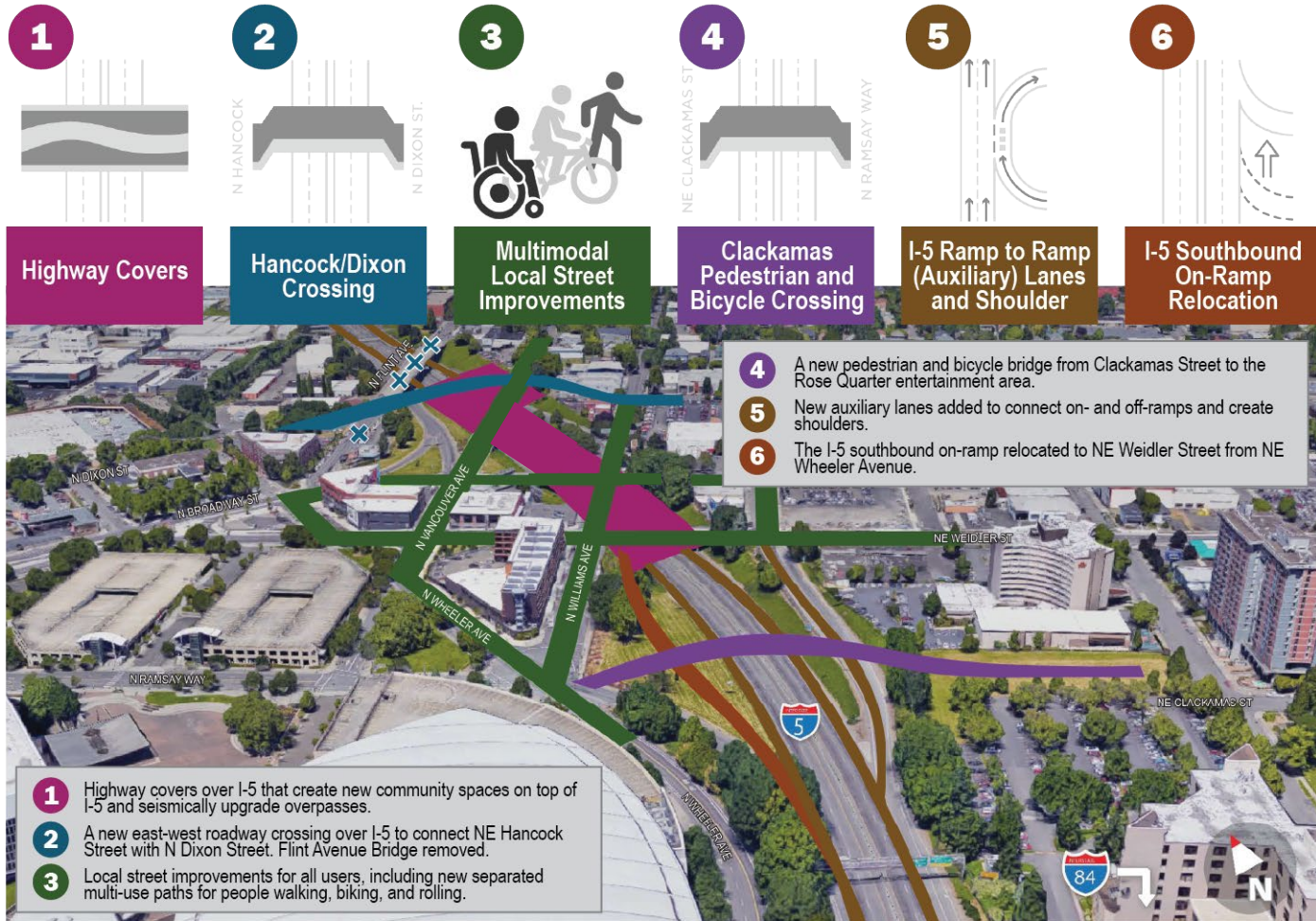


- Existing I-5 Travel Lanes
- Existing Ramp-to-Ramp (Auxiliary) Lanes
- Proposed Ramp-to-Ramp (Auxiliary) Lanes





# Project Improvements





# Project Benefits



- New **community space**
- **Catalyst** for future development



- Collaboration through **partnerships**



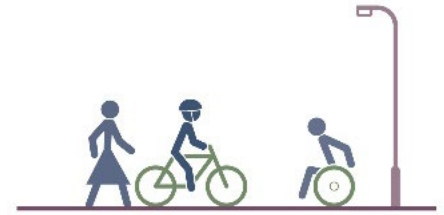
- Knitting the **Albina community** back together



- Building **long-term career** prospects



- Over **\$100+ million** in Disadvantaged Business Enterprise opportunities



- **Safer streets** for people walking, biking or rolling
- **Smoother traffic flow** on I-5
- Up to **50% reduction** in crashes
- **Emergency responders** and **buses** moving through traffic more quickly
- Saving drivers nearly **2.5 million hours** of travel time
- Efficient **movement of goods**

# PARTNERSHIP & COMMUNITY ENGAGEMENT

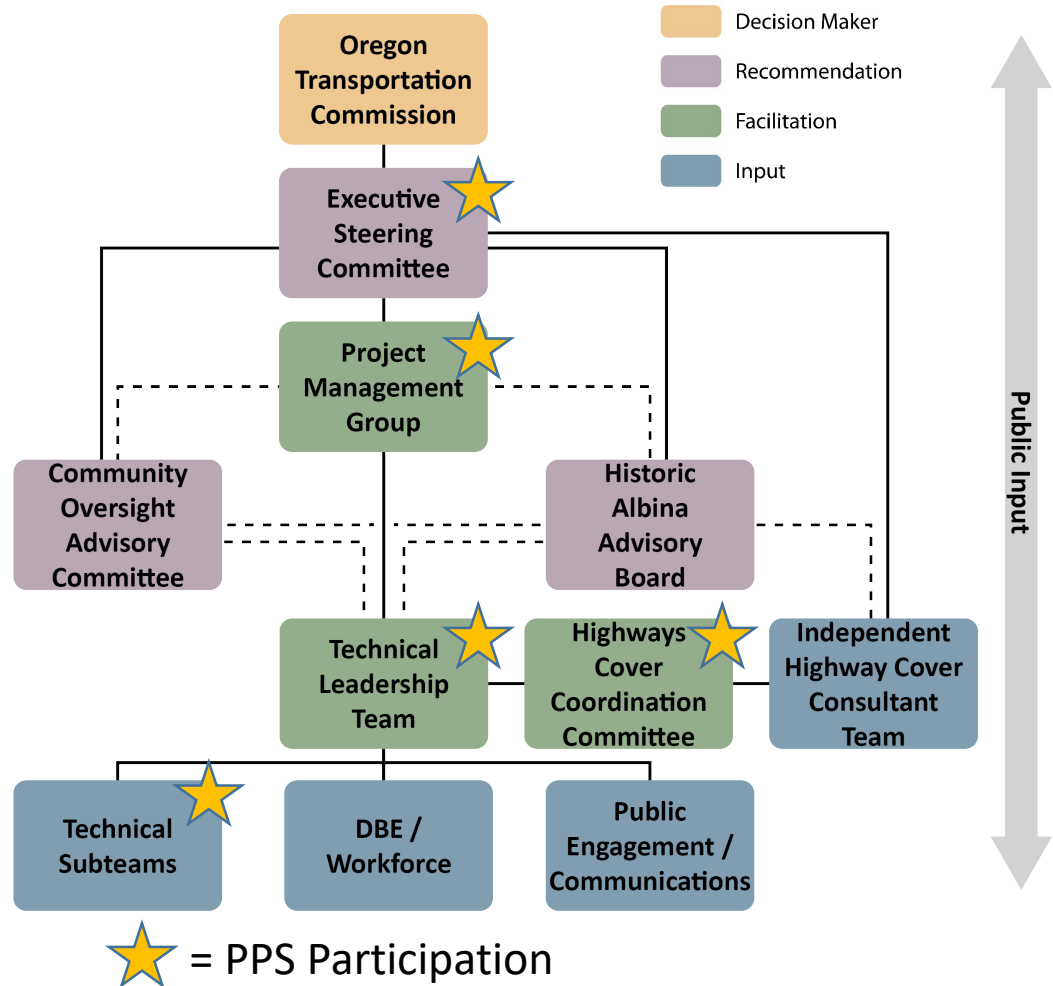






# Project Values & Governance

-   
**Restorative Justice**
-   
**Community Input & Transparent Decision-Making**
-   
**Mobility Focused**
-   
**Climate Action & Improved Public Health**

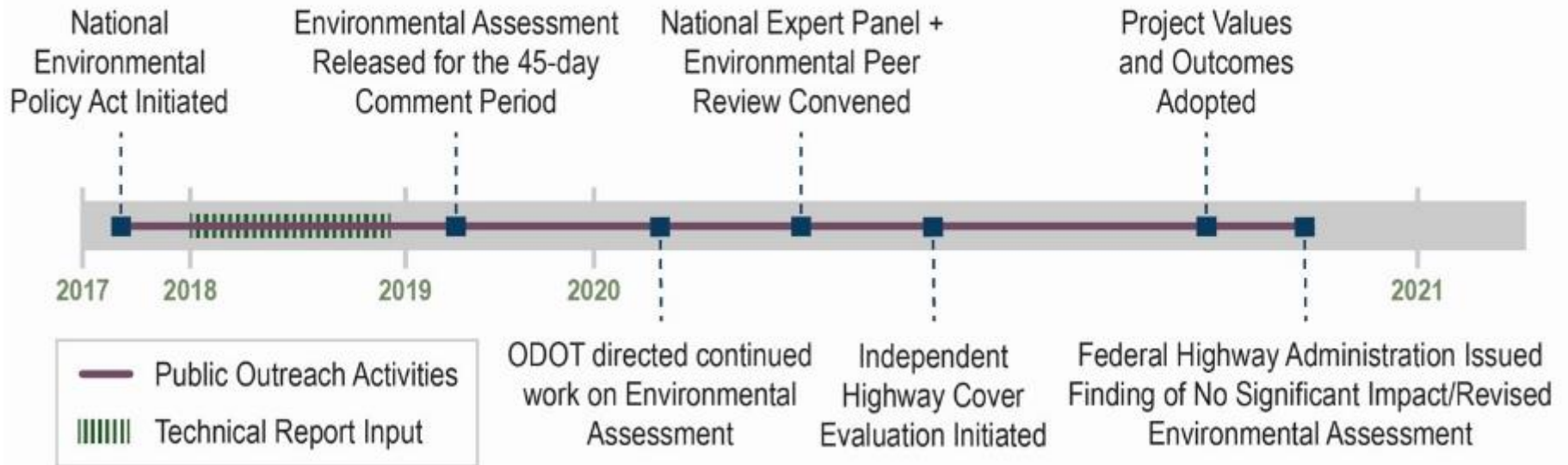


# ENVIRONMENTAL REVIEW





# Environmental Process Timeline







# Environmental Assessment Key Findings

- Air quality and greenhouse gas emissions slightly improve in the area resulting from the I-5 Rose Quarter Improvement Project.
- With sound wall, noise will decrease at Harriet Tubman Middle School



# Environmental Peer Review Panel



- **Song Bai, Ph.D., P.E.**, Manager, Emissions and Community Exposure Assessment, Bay Area Air Quality Management District



- **Andrew Eilbert, MS**, Physical Scientist, Environmental Measurement and Modeling Division, US Department of Transportation Volpe Center



- **Deborah Jue, MS**, Principal and CEO, Wilson Ihrig Acoustics, Noise and Vibration



- **Dr. Beverly Scott, Ph.D.**, CEO, Beverly Scott and Associates



- **Tim Sexton, MS, MPH, AICP, ENV SP**, Assistant Commissioner, Chief Sustainability Officer, Minnesota DOT



- **Charles Shamoon, J.D.**, Assistant Counsel, New York City Department of Environmental Protection



- Panel was selected and convened by **Grace Crunican, MBA**, Crunican LLC



# Environmental Peer Review Findings

	EA	Peer Review
<b>Noise</b>	<ul style="list-style-type: none"><li>• Complied with ODOT Noise Manual</li><li>• Appropriately applied FHWA's Transportation Noise Model</li><li>• Proposed noise barriers as mitigation</li></ul>	<ul style="list-style-type: none"><li>• Analyses were completed correctly and the conclusions are accurate</li><li>• Could have been presented in a clearer, non-technical manner</li><li>• Should evaluate construction noise</li><li>• Proposed noise barriers are feasible and reasonable</li></ul>





# Environmental Peer Review Findings

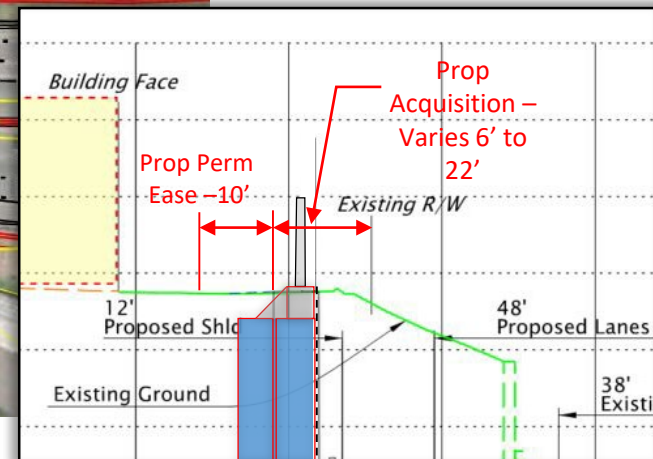
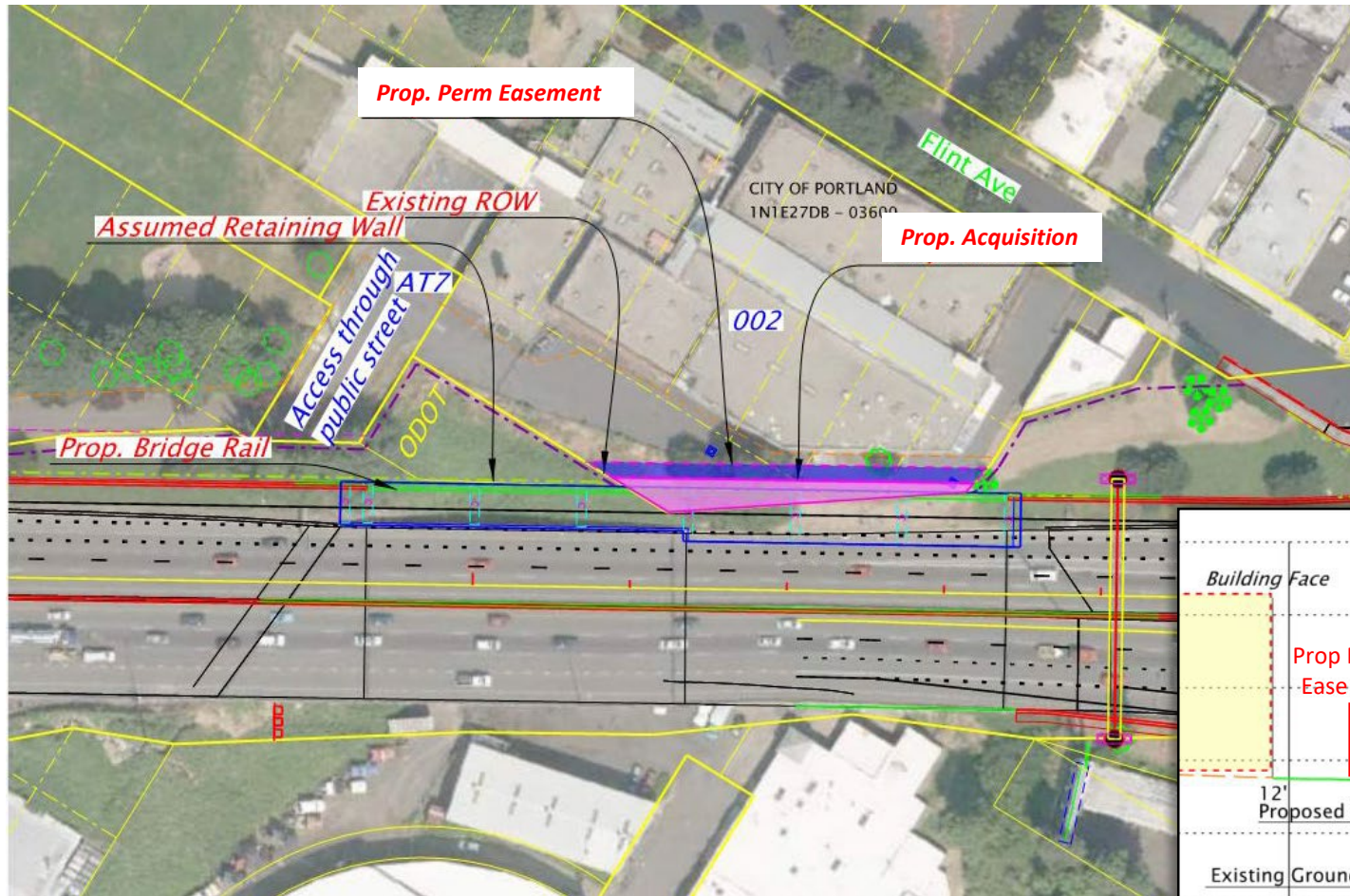
	EA	Peer Review
<b>Air Quality</b>	<ul style="list-style-type: none"><li>• Followed FHWA and US EPA guidance</li><li>• FHWA authorized ODOT to omit MSAT base year analysis</li><li>• No adverse long-term air quality impacts and no mitigation required</li></ul>	<ul style="list-style-type: none"><li>• Analyses were completed correctly and the conclusions are accurate</li><li>• Could have been presented in a clearer, non-technical manner</li><li>• Could further explore construction and operation phase diesel particulate matter</li><li>• Suggested mitigation that could be applied, but not required</li></ul>
<b>Greenhouse Gas</b>	<ul style="list-style-type: none"><li>• Went above and beyond NEPA requirements</li></ul>	<ul style="list-style-type: none"><li>• Could have included more quantitative data</li></ul>

# DESIGN AND CONSTRUCTION



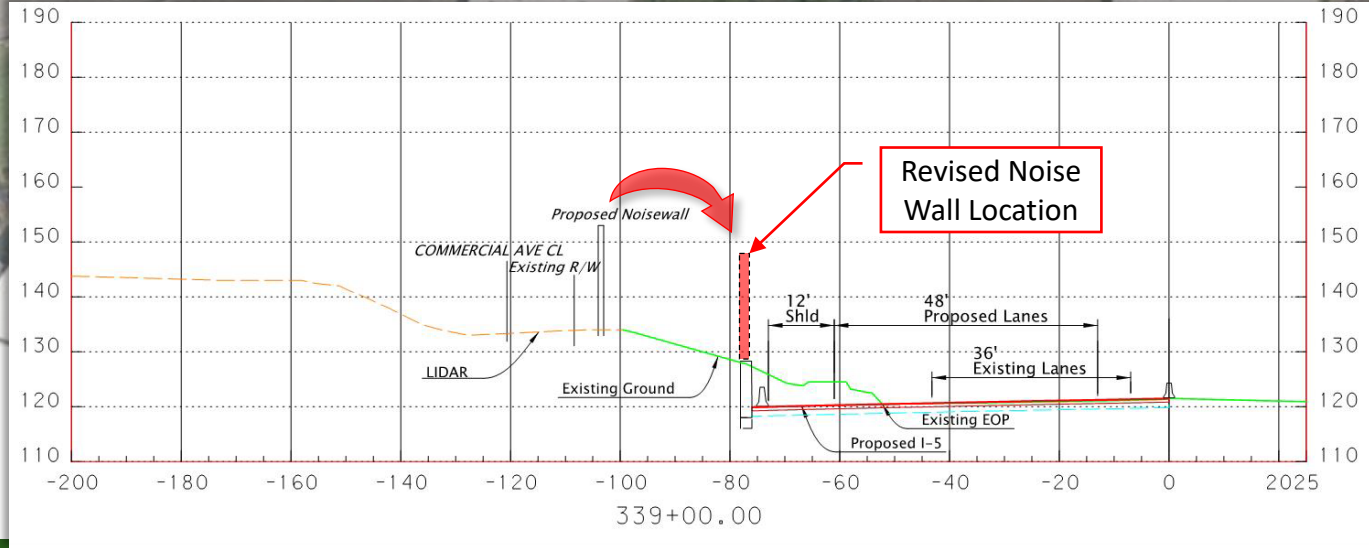
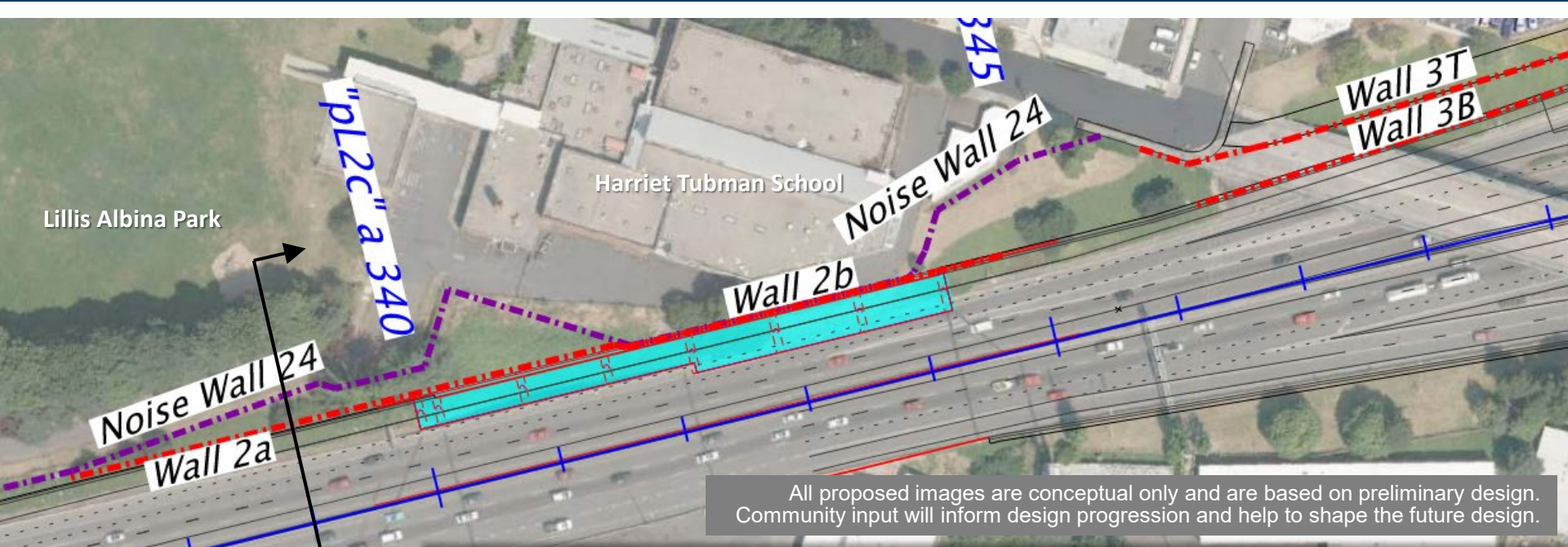


# 20% Design Level Proposed Property Impacts (2021)



All proposed images are conceptual only and are based on preliminary design. Community input will inform design progression and help to shape the future design.







# Wall Methodology: Design Constraints and Considerations

- Goal: “no impact” to existing structures
  - Assumes existing building foundation and upper structure is under good condition
  - Minimize ground settlement behind new wall
  - Minimize vibrations during construction
- New structures meet current design codes, including seismic
- Access and operations during construction
- Anticipate pre-construction survey and monitoring program during construction



# Noise Findings & Approach

- Build sound wall to reduce interior noise levels to 45 dBA (lower than exists today)
- Phase any work next to the school to occur during summer months to avoid disruptions
- Review haul routes and construction methodology and timing to evaluate opportunities to minimize impacts.
  - Additional review after additional coordination with PPS and design refinement.



# Air Quality Findings & Approach

- Incorporate planting buffers
  - Construction of wall in conjunction with plantings
  - Vegetation of multiple rows and type, tall and dense plantings
- Comply with the provisions of the Clean Diesel bill (House Bill [HB] 2017)
- Explore other minimization opportunities, such as construction haul routes, limit equipment idling, equipment staging areas
  - Additional review after additional coordination with PPS and design refinement.

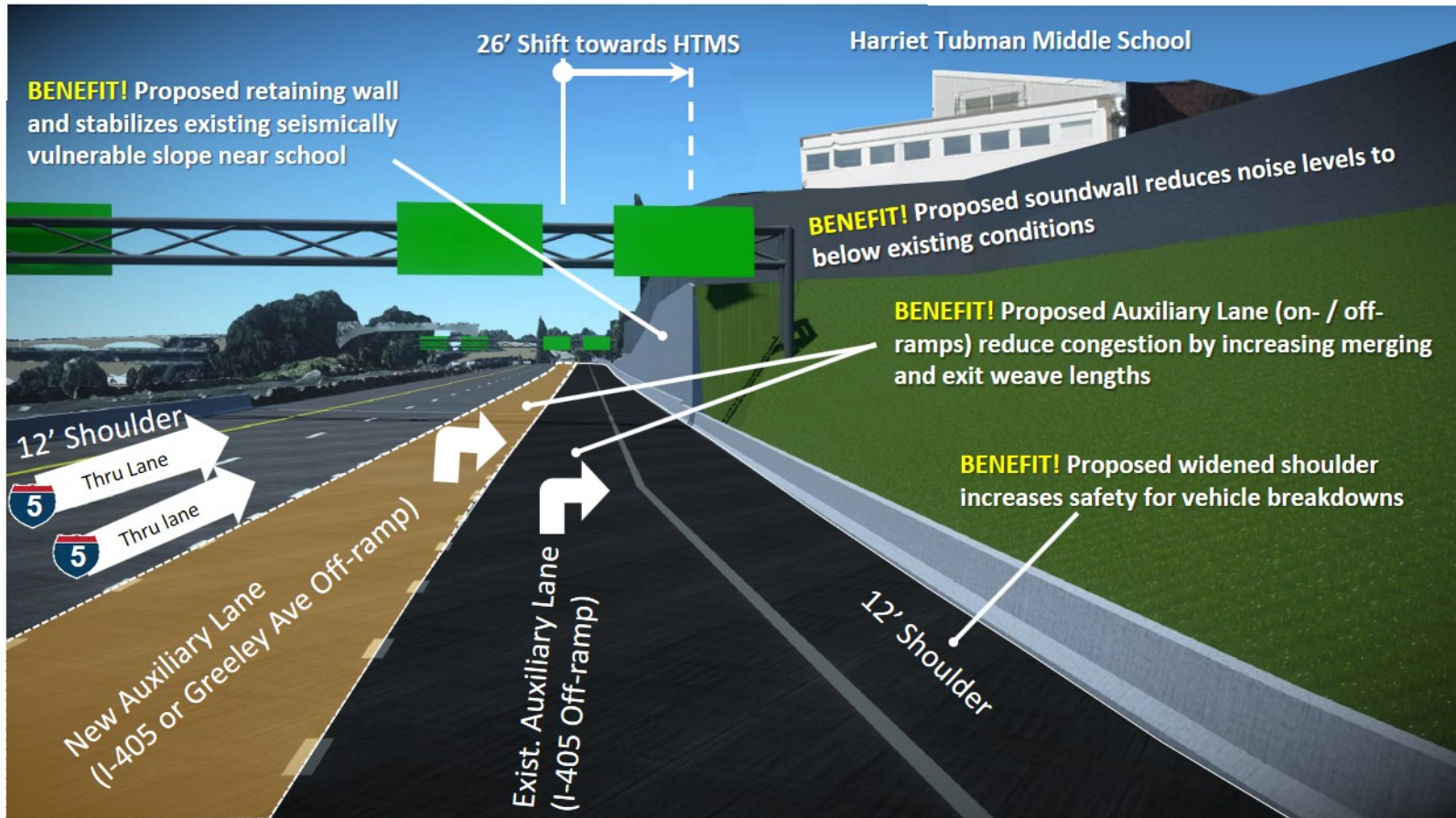
# DESIGN OPTION: SOUTHBOUND REALIGNMENT







# Proposed Cross-Section near Harriet Tubman Middle Schools



All proposed images are conceptual only and are based on preliminary design. Community input will inform design progression and help to shape the future design.



# I-5 Alignment: Realignment Design Option

Existing Design Concept:  
**Align East**

New Design Concept:  
**Align to West**



# NEXT STEPS





# Project Milestones





# THANK YOU!

[www.i5RoseQuarter.org](http://www.i5RoseQuarter.org)  
503-470-3127  
[info@I5RoseQuarter.org](mailto:info@I5RoseQuarter.org)



**I-5 ROSE QUARTER**  
IMPROVEMENT PROJECT