

Outer Powell Boulevard Conceptual Design Plan

Final Report



**City of Portland Bureau of
Transportation**

1120 SW Fifth Avenue
Portland, Oregon 97204

Oregon Transportation and Growth Management Program

Outer Powell Blvd. Conceptual Design Plan

Executive Summary

- Project Limits: I-205 to SE 174th
- Goal is to provide a conceptual design plan that will accommodate the 20-year needs of motor vehicles, bicycles, pedestrians, and transit
- Alternatives considered
 - 3 lane cross-section
 - 4 lane cross-section
 - 5 lane cross-section
 - Ped & bike facilities
 - 8 ft. wide bike facility
 - 12 ft. wide sidewalk corridor
 - 7 ½ ft. sidewalk zone
 - 4 ½ ft. furnishing zone
- Three-lane alternative is the recommended for adoption
 - SE 162nd to SE 174th three lane alternative is near-term recommendation for next 15 yrs.
- Conceptual Design Plan will inform both future preliminary engineering phases for public capital improvements but also private development requirements for dedication and frontage improvements

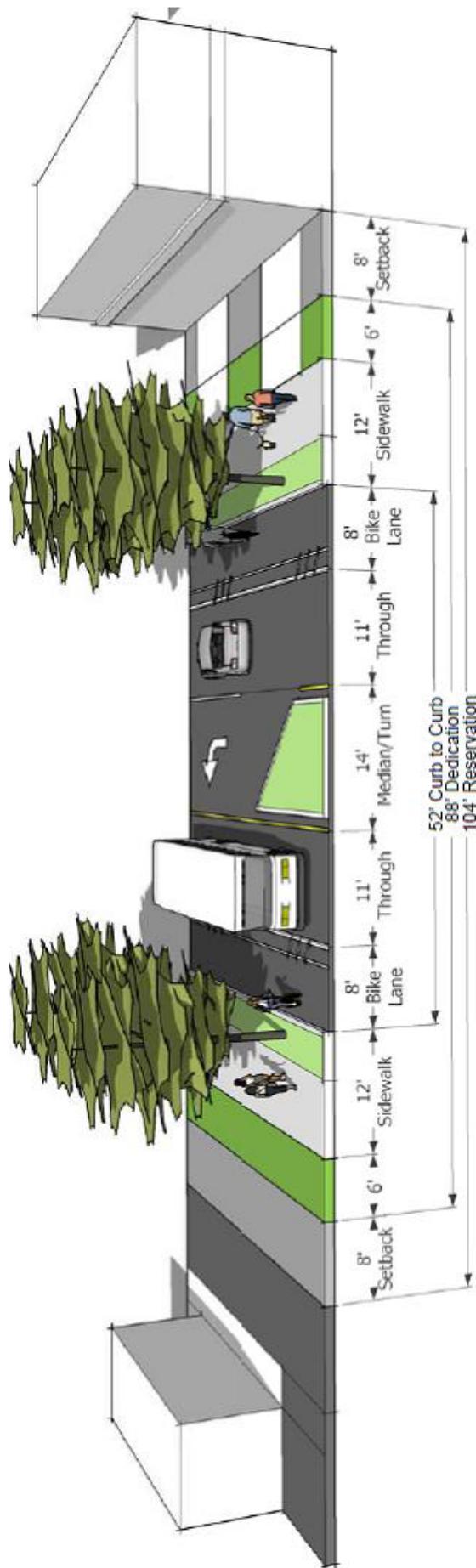
Street Design Concept Recommendations

Street Concept Recommendation for Segments 1, 2, and 3 (SE 99th to SE 162nd)



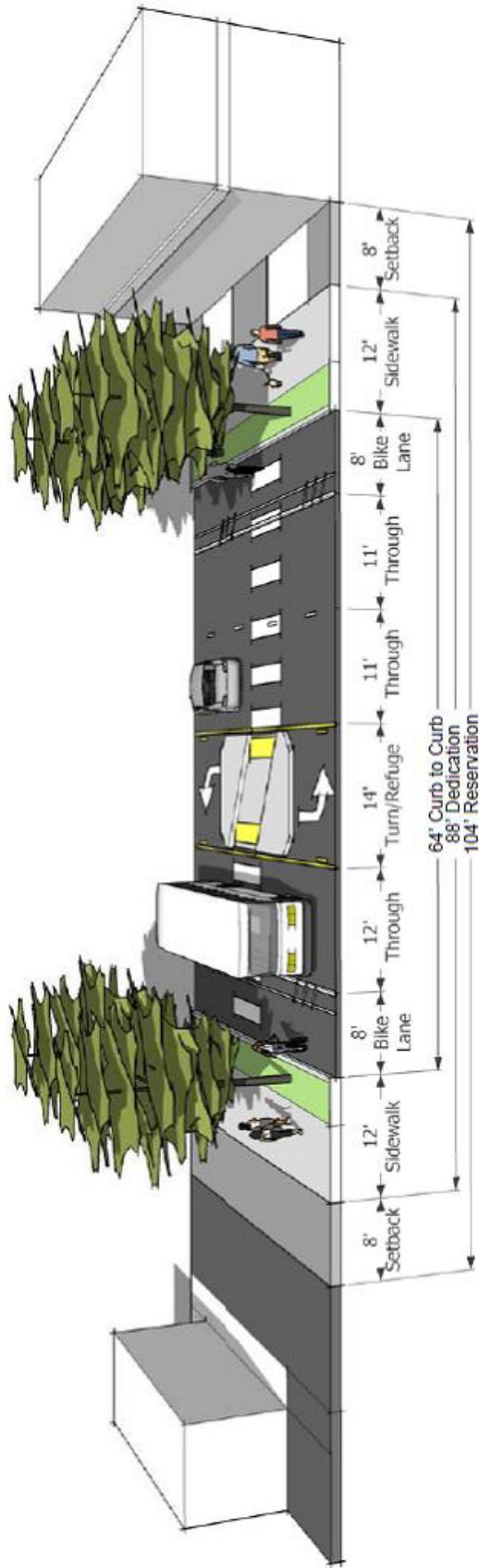
- 52' roadway improvement section with 3 traffic lane
- 1 traffic lane each direction plus center turn lane and/or median
- 76' right-of-way dedication
- 104' reservation with a 14' building setback on each side
- Includes sidewalks and bike lanes

Near-Term Street Concept Recommendation for Segment 4 (SE 162nd – SE 174th)



- 52' roadway improvement section with 3 traffic lanes
 - 1 traffic lane each direction plus center turn lane and/or median
- Current 4-lane segments will be retained
 - 88' right-of-way dedication
 - 104' reservation with an 8' building setback on each side
 - Includes sidewalks and bike lanes

Potential Long-Term Street Concept Recommendation for Segment 4 (SE 162nd – SE 174th)

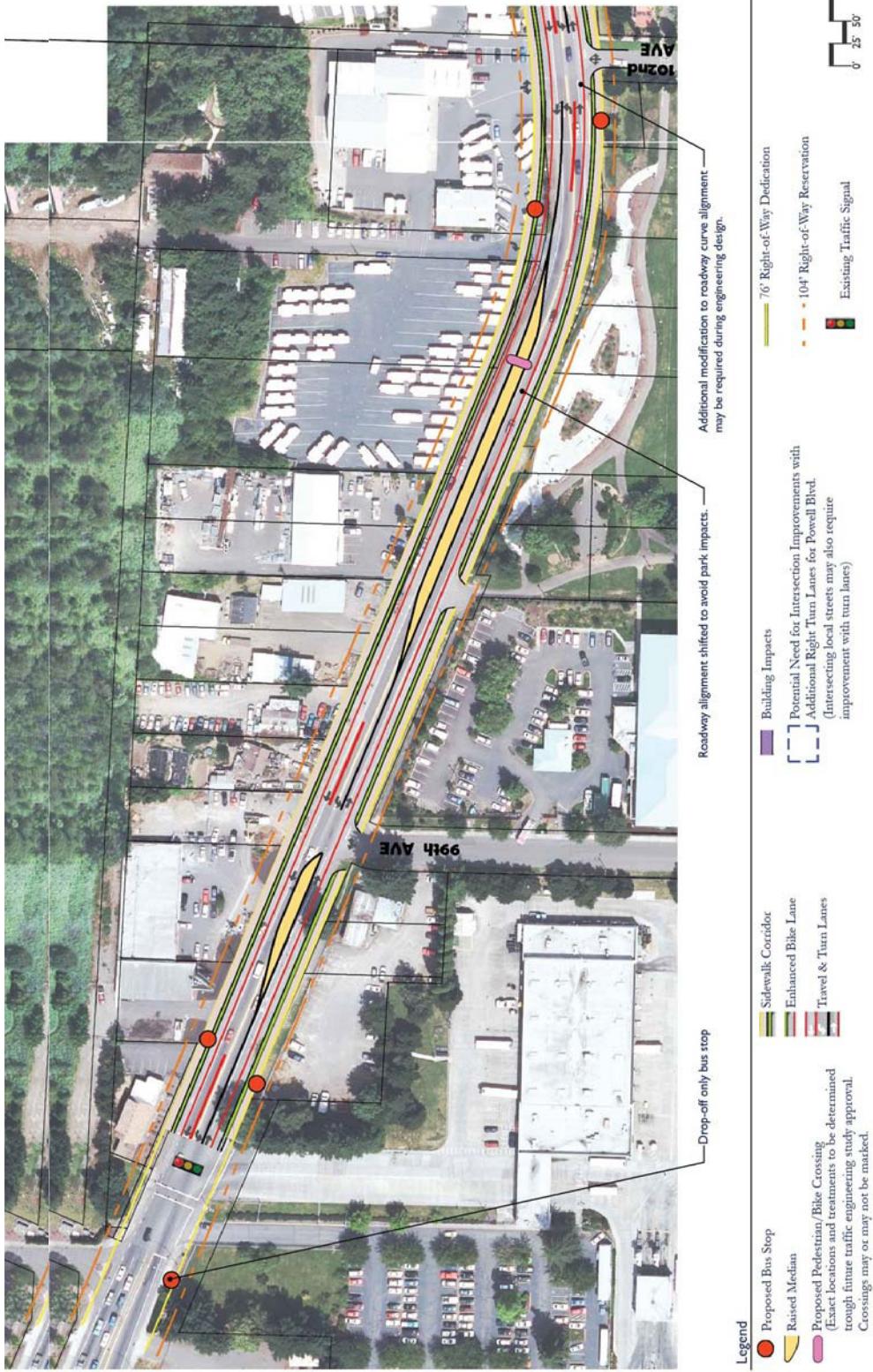


The above cross-section is a working illustration for a long-term option that will be further refined during the project development phase in the future. The intent is to establish setbacks and right-of-way reservation based on information available at the time of this plan.

- 64' roadway improvement section with 4 lanes
- 2 travel lanes of eastbound traffic, 1 travel lane of westbound traffic, and 1 center turn and/or median lane, plus a right turn lane for the westbound approach to SE 162nd Ave.
- 88' right-of-way dedication
- 104' reservation which includes an 8' building setback on each side
- Includes sidewalk and bike lanes

Corridor Improvement Maps

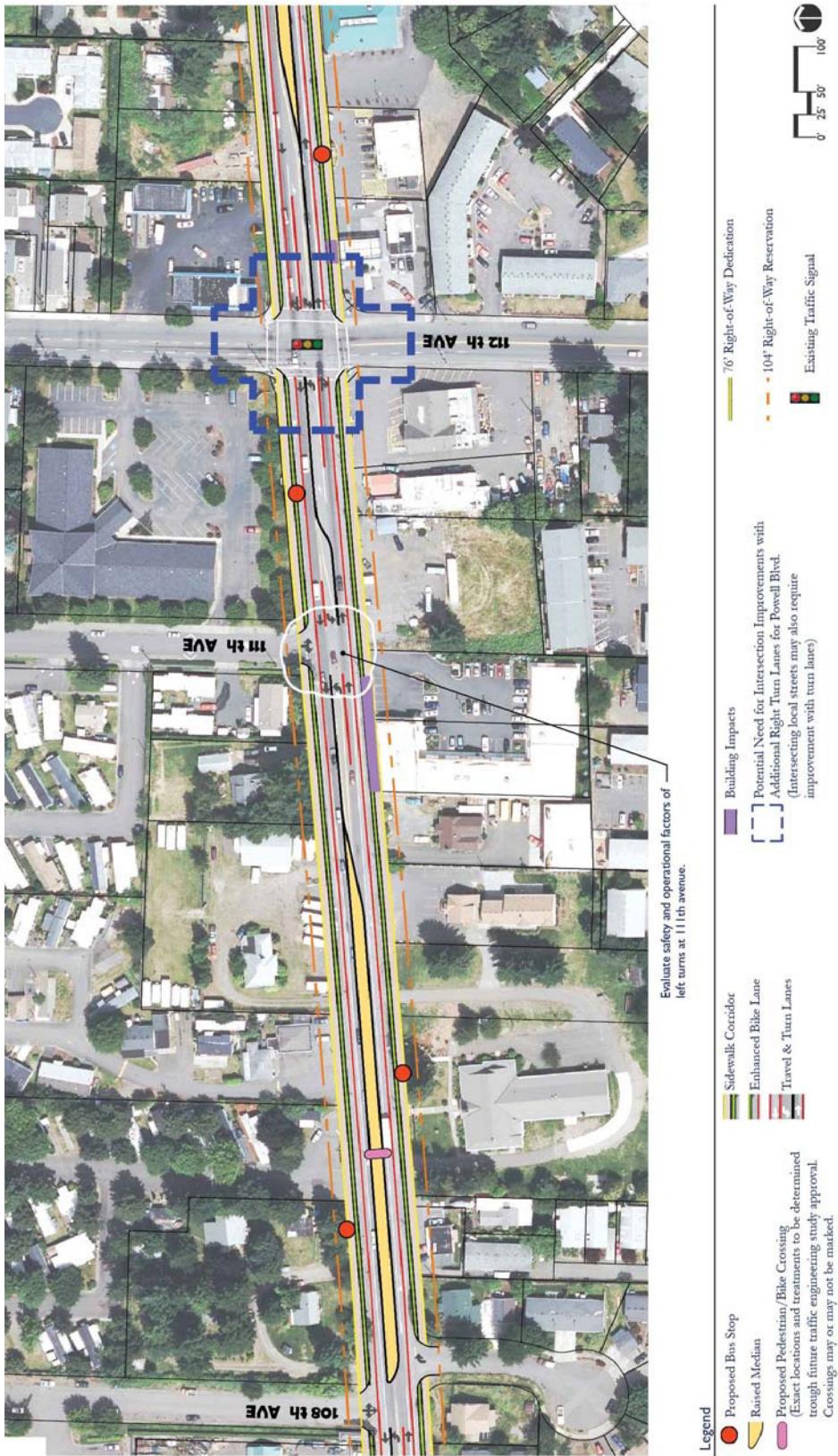
The following illustrations depict the multi-modal transportation improvements planned for each of the project segments.



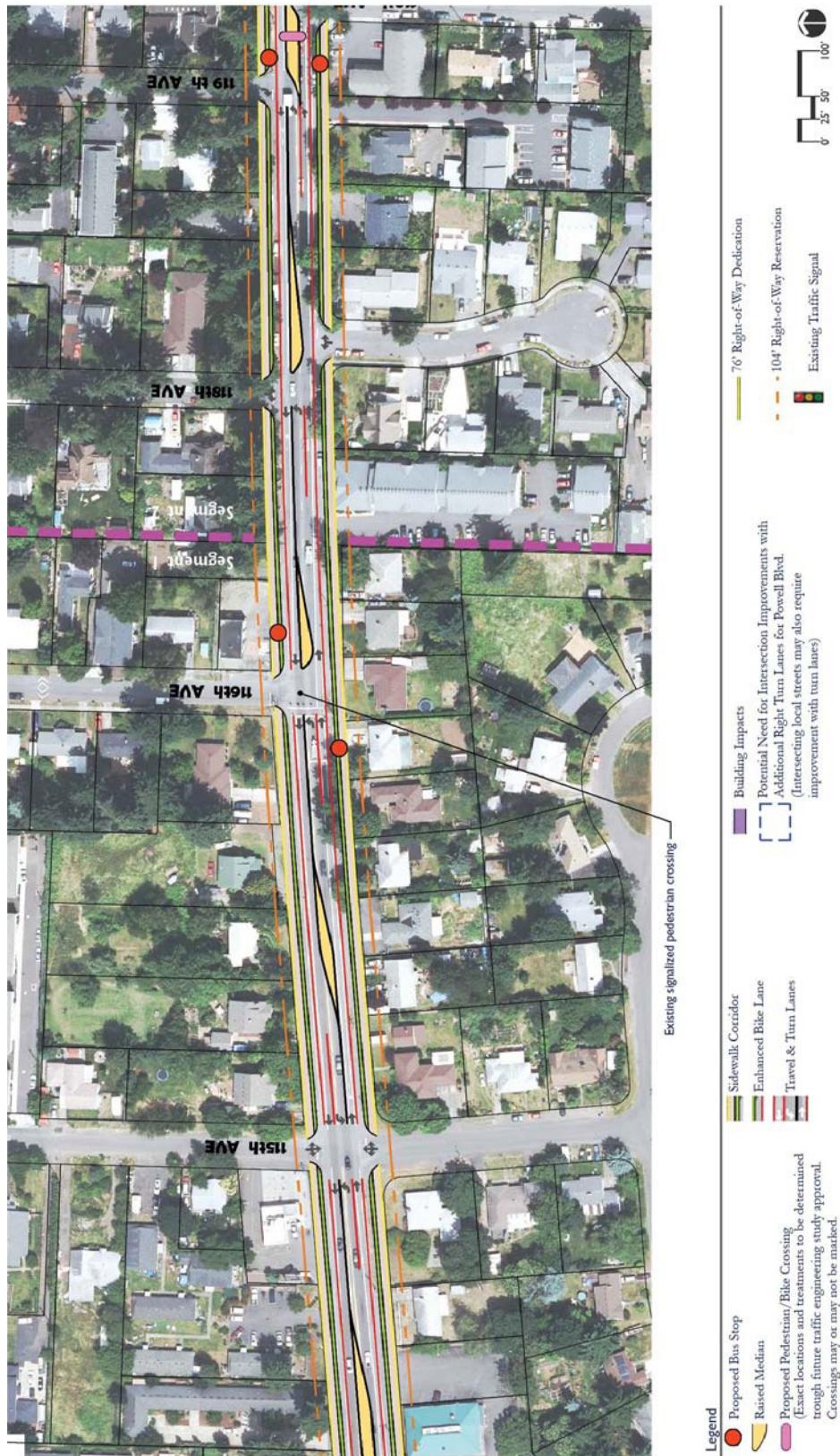
Recommended transportation improvements from SE 102nd to SE 108th Ave



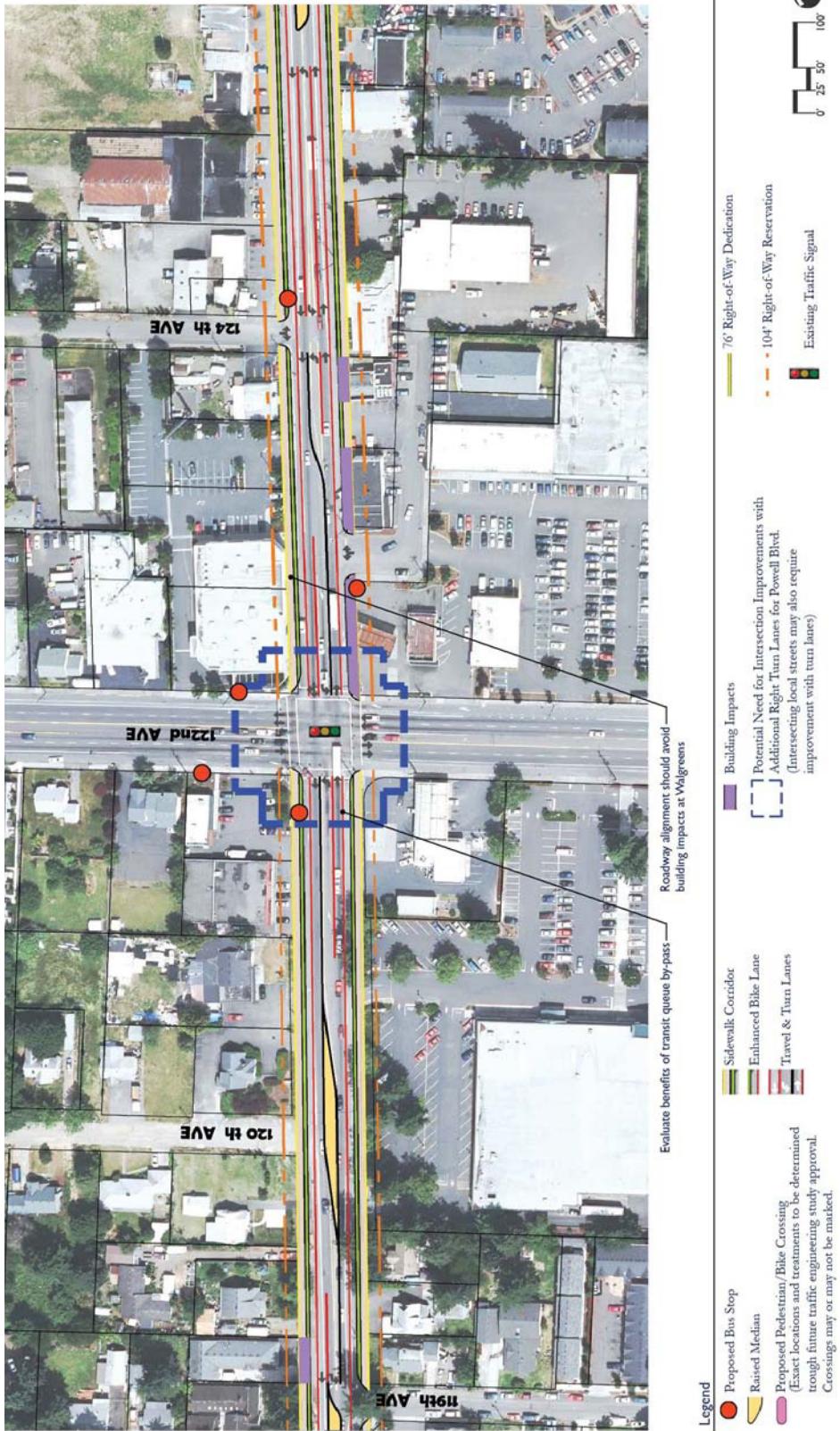
Recommended transportation improvements from SE 108th Ave to approximately SE 113th



Recommended transportation improvements from approximately SE 112th and SE 119th Ave



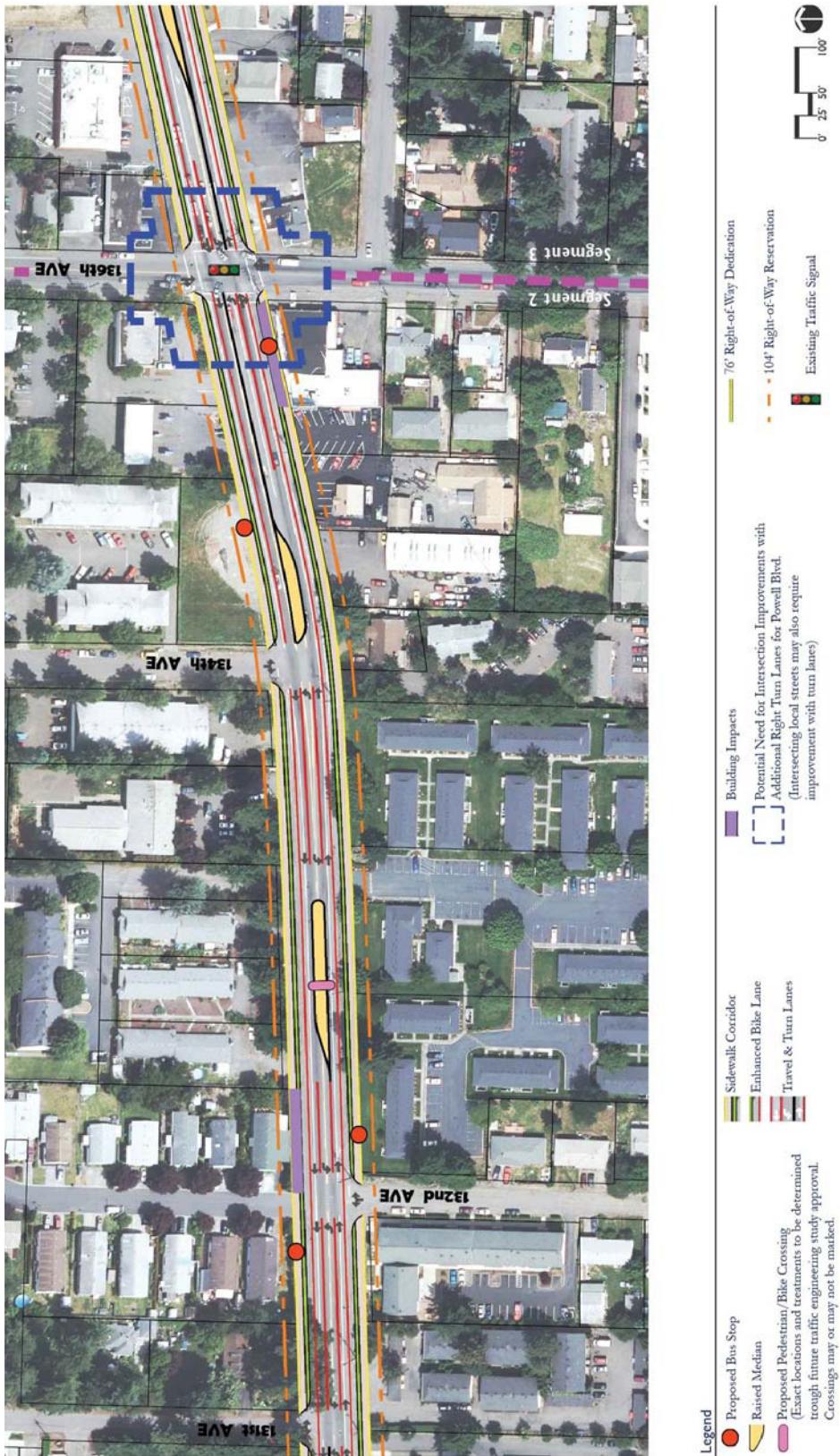
Recommended transportation improvements from SE 119th Ave to SE 125th Pl



Recommended transportation improvements from SE 125th Pl to SE 131st Ave



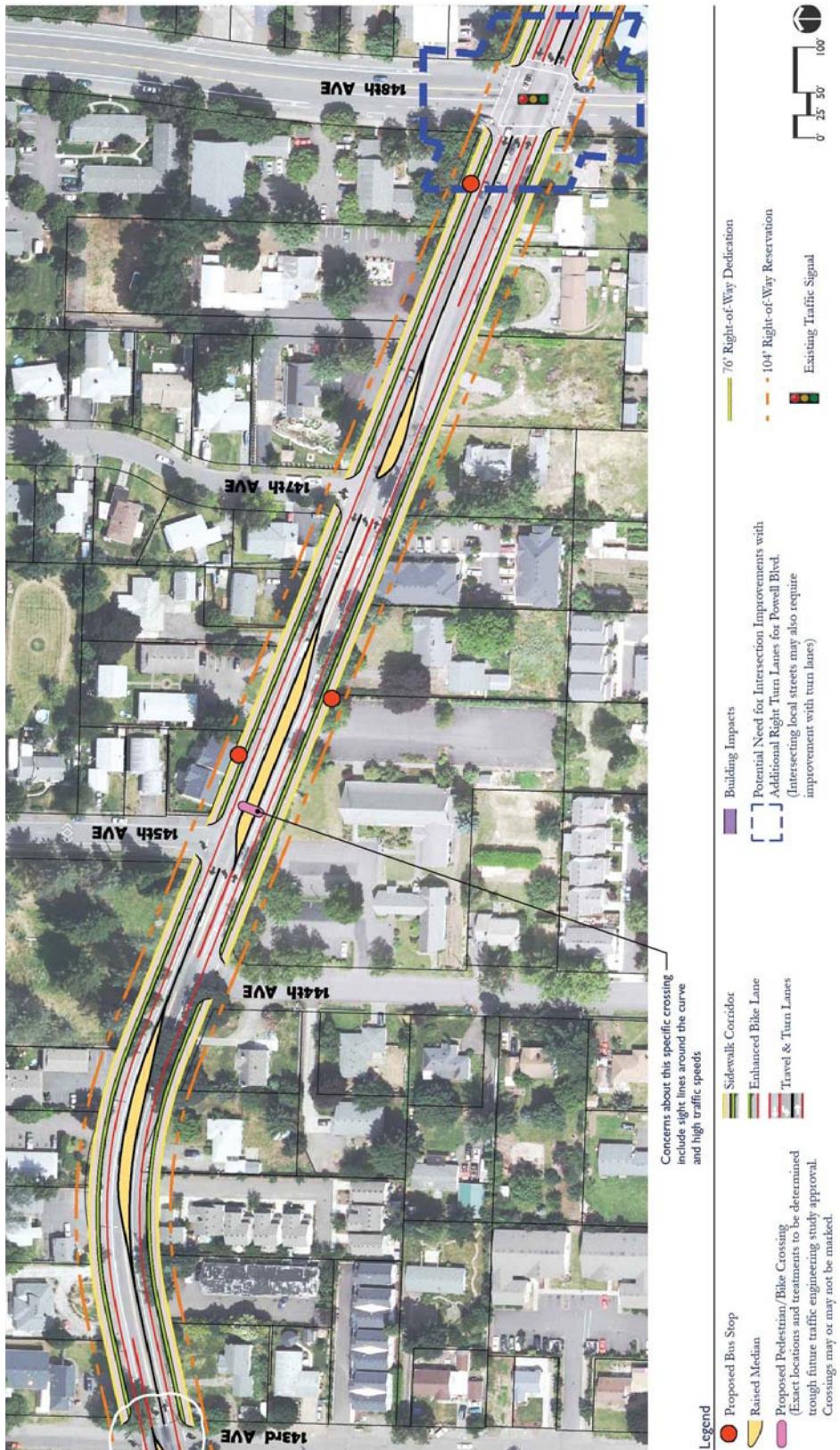
Recommended transportation improvements from SE 131st Ave to approximately SE 137th



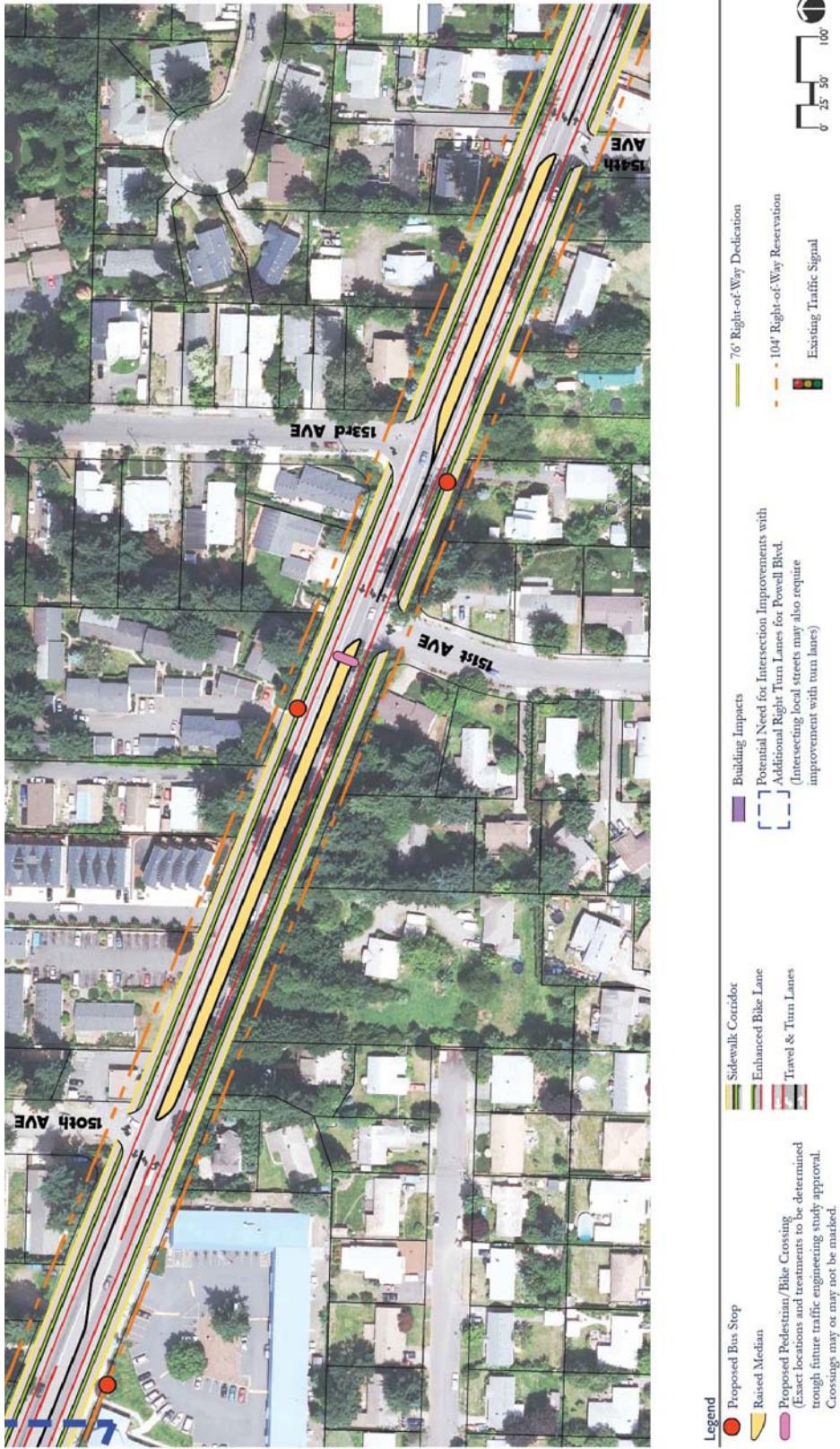
Recommended transportation improvements from approximately SE 137th to SE 143rd Ave



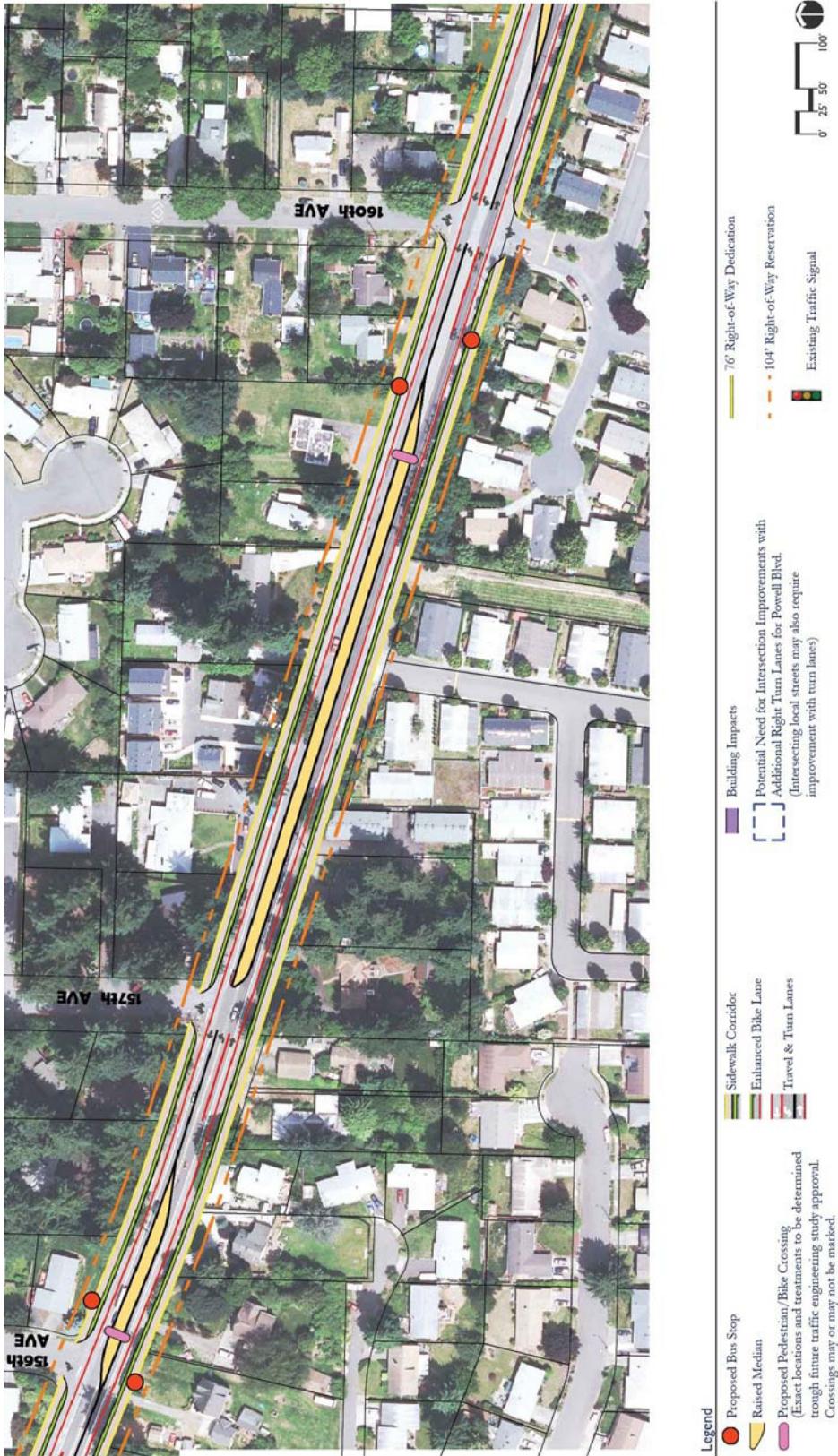
Recommended transportation improvements from SE 143rd to SE 148th Ave



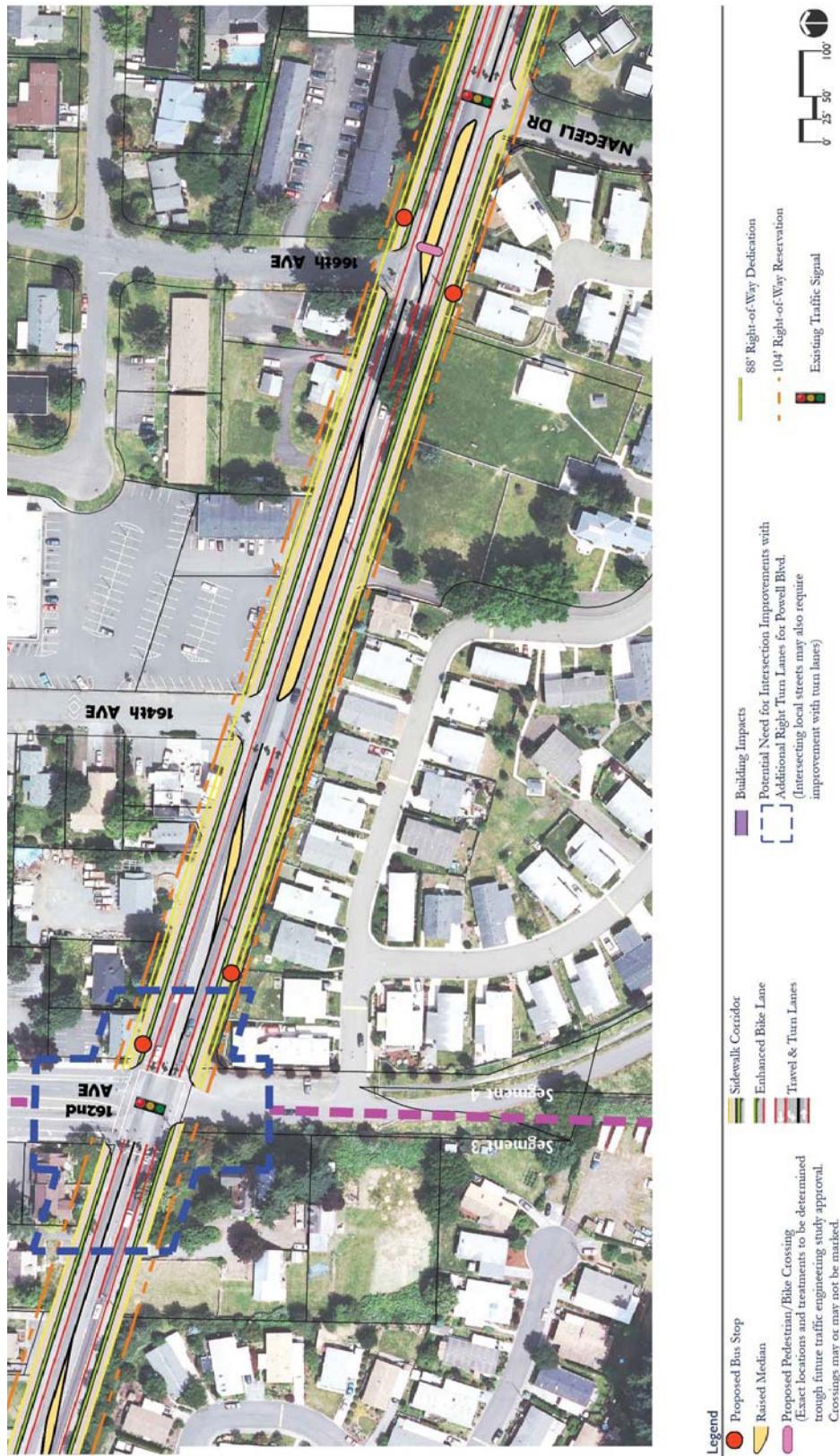
Recommended transportation improvements from SE 148th to SE 154th Ave



Recommended transportation improvements from SE 154th to approximately SE 161st



Recommended transportation improvements from approximately SE 161st to SE Naegeli Dr



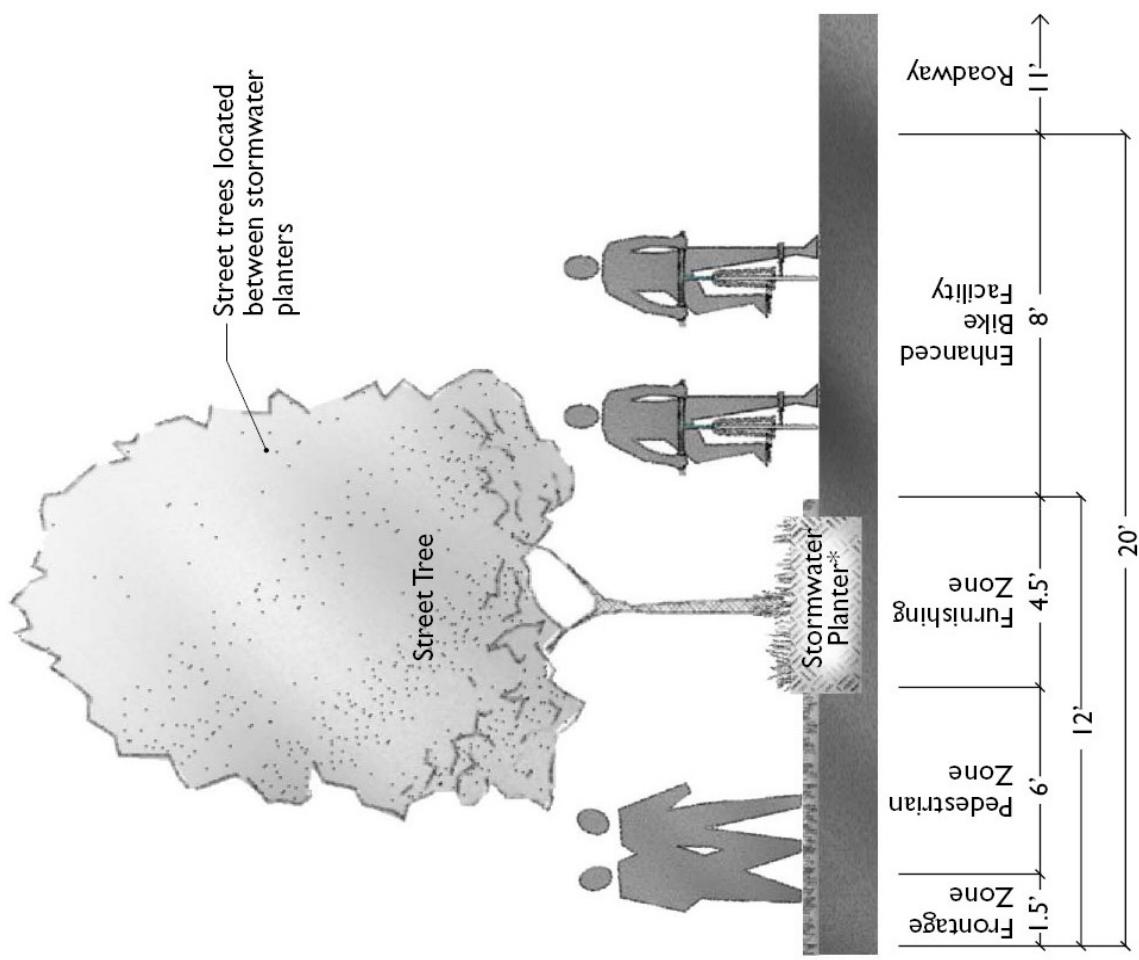
Recommended transportation improvements from SE Naegeli Dr to approximately SE 172nd



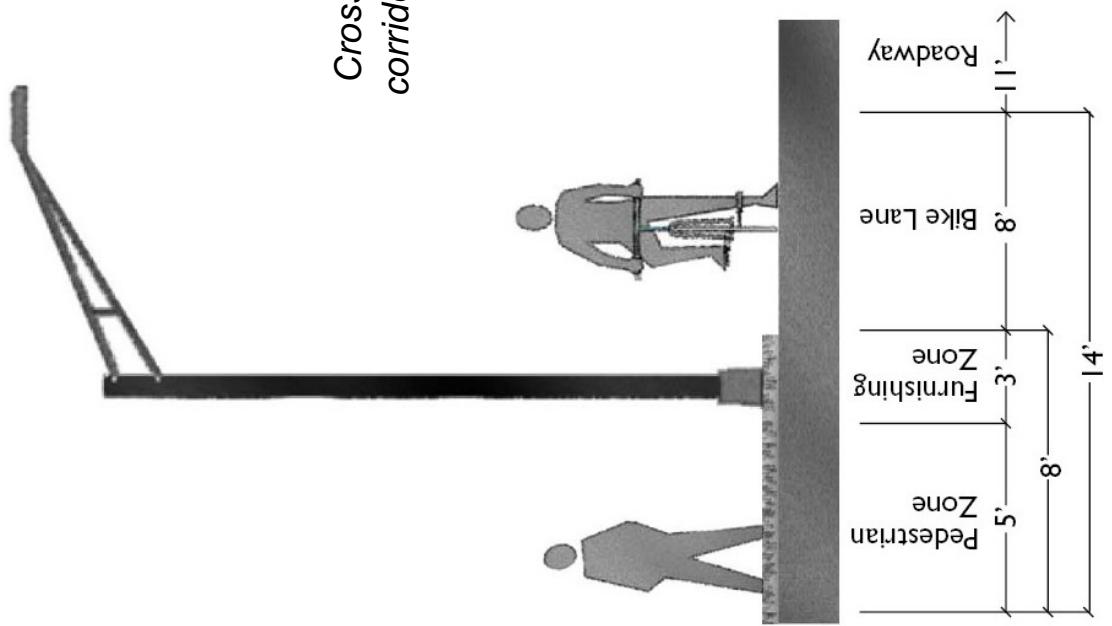
Recommended transportation improvements from approximately SE 172nd to City Limits



Cross-section of enhanced pedestrian and bicycle facilities



Cross-section of pedestrian and bicycle facilities in a constrained corridor



Costs

The table below provides estimated total costs provided by ODOT for the 3-lane, 4-lane, and 5 lane alternatives using the “enhanced” design features for each of the project segments. These costs were prepared for the purpose of developing rough estimates to compare full build alternatives considered during this plan process. These costs estimates are based on general unit costs for both roadway improvements and right-of-way. These costs and the alternative cross-section may be used as the basis for estimated project cost for future addition to Portland’s Transportation System Plan (TSP).

Estimated Total Costs for Improvements			
Project Segment	3-Lane	4-Lane	5-Lane
Segment 1: I-205 to SE 116 th Ave	\$16,802,789	\$ 25,626,035	\$36,943,711
Segment 2: SE 116 th Ave to SE 136 th Ave	\$19,768,416	\$25,626,035	\$36,943,711
Segment 3a: SE 136 th Ave to SE 148 th Ave	\$8,847,302	\$15,659,861	\$20,385,050
Segment 3b: SE 148 th Ave to SE 162 nd Ave	\$11,539,615	\$17,279,437	\$23,766,094
Segment 4: SE 162 nd Ave to SE 174 th Ave	\$9,553,453	\$14,111,626	\$20,605,671
Total	\$66,551,572	\$98,302,993	\$138,644,238