

Draft Project List Report

City of Gresham, Safe Routes to School Project Identification

April 2011

TGM Grant Agreement No. 26146

Summary:

A Safe Routes Project List Report is a Task Four deliverable for TGM Grant agreement No. 26146. The Project List Report describes specific solutions and costs for the obstacles, hazards and barriers to bike and pedestrian access identified through the earlier work for this project.

This Report incorporates the input from the six school APTs at two meetings in April, where the APTs for the two Reynolds School District Schools and the APTs for the four Gresham Barlow School District schools met to review and discuss the Summary Report of Potential Solutions.

A draft of this Project List Report was presented to the TAC at a meeting on May 9, 2011. The Draft was revised to incorporate the TAC comments and then the Revised Draft was sent to the APTs for comment on May 18, 2011. Comments from the APT were incorporated into the Final Draft, which was circulated to the Transportation Subcommittee by e-mail on June 8, 2011. TS comments were incorporated into this Final Report.

This project is partially funded by a grant from the Transportation and Growth Management (TGM) Program, a joint program of the Oregon Department of Transportation and the Oregon Department of Land Conservation and Development. This TGM grant is financed, in part, by federal Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), local government, and State of Oregon funds.

The contents of this document do not necessarily reflect views or policies of the State of Oregon.

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DAVIS 1: Parking Lot/Circulation

Description of Gap or Barrier: The circulation in the school parking lot is poor, and there is no lot attendant in the mornings. There is conflict between cars and buses.

Proposed Solution: Revisions to parking lot and loop circulation.

Cost Estimate: This project will require additional work with the Reynolds School District prior to preparation of a cost estimate. At the April, 2011 APT Meeting, the Principal of Davis expressed interest in evaluating the feasibility of establishing a second driveway to the school parking lot from 194th Avenue, and closing the connection between the bus loop and the parking lot.



DAVIS 2: Private Vehicle Parking in Entrance Loop

Description of Gap or Barrier: Relates to D1. Private vehicles are in conflict with buses.

Proposed Solution: Circulation plan.

Cost Estimate: This project will require additional work with the Reynolds School District prior to preparation of a cost estimate.



DAVIS 3: Covered Bike Parking

Description of Gap or Barrier: The covered bicycle parking is not visible from the front door of the school, and the existing parking is located too close to the wall.

Proposed Solution: Relocation of bicycle parking.

Cost Estimate: This project will require additional work with the School District prior to preparation of a cost estimate.

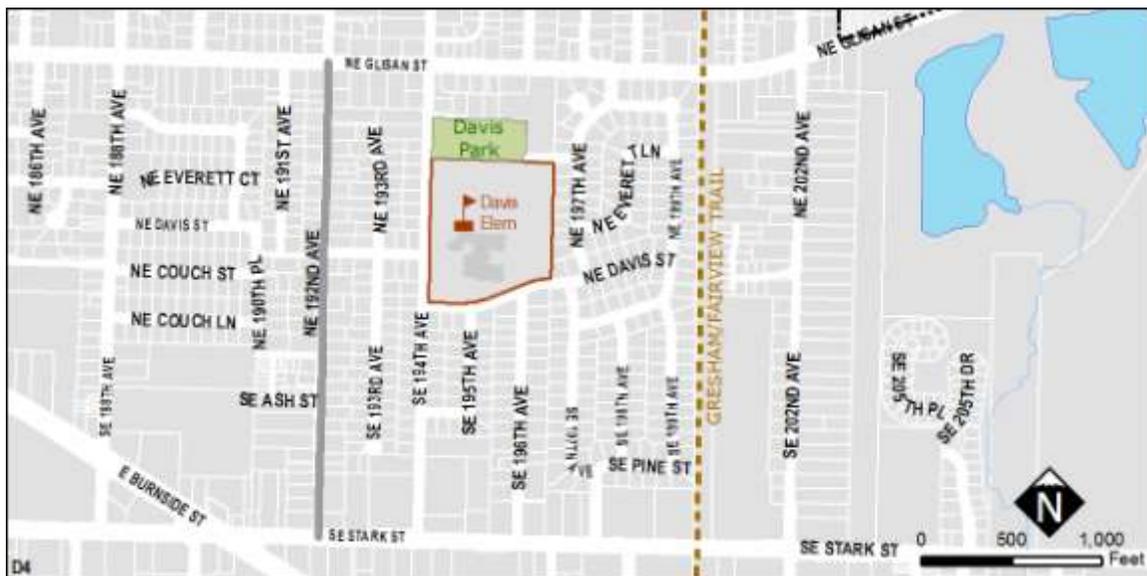


DAVIS 4: N.E. 192nd Ave., S.E. Stark St. to N.E. Glisan St.: Bicycle Facilities

Description of Gap or Barrier: There are no bicycle lanes on N.E. 192nd Avenue from S.E. Stark Street to N.E. Glisan Street. This project will add bicycle lanes to this section.

Proposed Solution: This project will add bicycle lanes to N.E. 192nd Avenue between S.E. Stark Street and N.E. Glisan Street. The project will require a 10' widening of the roadbed. The potential for protected lanes will be explored during design.

Cost Estimate: \$555,140.



DAVIS 5: N.E. 192nd Ave., S.E. Stark St. to N.E. Glisan St.: Missing Links, Sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. 192nd Avenue between S.E. Stark Street and N.E. Glisan Street.

Proposed solution: This project will complete the missing sidewalk links on N.E. 192nd Avenue between S.E. Stark Street and N.E. Glisan St. Curb extensions will also be evaluated to address a related problem of speeding on N.E. 192nd Avenue . See Davis #10.

Cost Estimate: \$592,592.



DAVIS 6: N.E. Couch St.: N.E. 188th Ave. to School: Missing Links, sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. Couch Street between N.E. 188th Avenue and Davis Elementary.

Proposed Solution: This project will complete the missing sidewalk links on N.E. Couch Street between N.E. 188th Avenue and Davis Elementary.

Cost Estimate: \$311,204.



DAVIS 7: N.E. Couch Lane, N.E. 188th Ave. to N.E. 190th Ave., Missing links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. Couch Lane between N.E. 188th Avenue and N.E. 190th Avenue.

Proposed Solution: This project will complete the missing sidewalk links on N.E. Couch Lane between N.E. 188th Avenue and N.E. 190th Avenue.

Cost Estimate: \$216,339.



DAVIS 8: N.E. Davis St. at N.E. 190th Place, Missing Links, sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. Davis Street at N.E. 190th Place.

Proposed Solution: This project will complete the missing sidewalk links on N.E. Davis Street at N.E. 190th Place.

Cost Estimate: \$35,834.



DAVIS 9: N.E. 190th Place, N.E. Davis St. to N.E. Couch Lane

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. 190th Place between N.E. Davis Street and N.E. Couch Lane.

Proposed Solution: This project will complete the missing sidewalk links on N.E. 190th Place between N.E. Davis Street and N.E. Couch Lane.

Cost Estimate: \$185,893.



DAVIS 10: N.E. 192nd Ave.: Speeding, S.E. Stark St. to N.E. Glisan St.

Description of Gap or Barrier: Speeding is an issue on N.E. 192nd Avenue between S.E. Stark Street and N.E. Glisan Street.

Proposed Solution: This project will install two digital speed signs on N.E. 192nd Avenue. Also, curb extensions will be installed in conjunction with the addition of sidewalks and curb (see Davis #5).

Cost Estimate: \$51,163.



DAVIS 11: N.E. 194th Ave./N.E. Couch St. Intersection, ADA ramps.

Description of Gap or Barrier: The intersection of N.E. 194th Avenue and N.E. Couch Street lacks ADA ramps.

Proposed Solution: This project will add three ADA ramps at the intersection of N/E/ 194th Avenue and N.E. Couch Street.

Cost Estimate: \$13,857.



DAVIS 12: N.E. 194th Ave., S.E. Stark St. to N.E. Glisan St.: Missing links, sidewalks.

Description of Gap or Barrier: Missing links in sidewalks on N.E. 194th Avenue between S.E. Glisan Street and N.E. Glisan Street.

Proposed Solution: This project will complete the missing links in sidewalks on N.E. 194th Avenue between S.E. Glisan Street and N.E. Glisan Street.

Cost Estimate: \$72,297.



DAVIS 13: N.E. 193rd Ave./N.E. Couch St., No stop signs

Description of Gap or Barrier: The intersection on N.E. 193rd Avenue and N.E. Couch Street does not have any stop signs.

Proposed Solution: This project will install two stop signs to stop traffic travelling north and south on N.E. 193rd Avenue. An all way stop is not warranted.

Cost Estimate: \$1,357.



HB Lee 1: Bicycle Racks at School, deficiencies

Description of Gap or Barrier: The main bicycle racks in front of the school are “old style” wheel benders, and the racks are not covered.

Proposed Solution: This project will install newer style racks and also a covered structure.

Cost Estimate: \$53,295.



HB Lee 2: NW Access point (fence) too narrow, lack of lighting

Description of Gap or Barrier: Access to the school through the northwest corner of the school property is compromised by a too-narrow gate opening and lack of lighting.

Proposed Solution: This project will widen the opening in the gate and add lighting.

Cost Estimate: \$20,000.



HB Lee 3: SW Access point (fence) too narrow, lack of lighting, gap in path

Description of Gap or Barrier: Access to the school through the northwest corner of the school property is compromised by a too-narrow gate opening to Columbia View Park, and lack of lighting.

Proposed Solution: This project will create a new wider access point from the school to N.E. Hassalo Street, will add lighting, and will extend the path through to Hassalo Street.

Cost Estimate: \$20,000.



HB Lee 4: N.E. 162nd Ave., Speeding: Digital Speed Signs, School Flashers

Description of Gap or Barrier: Speeding is an issue on N.E. 182nd Avenue, especially in the vicinity of N.E. Wasco Street.

Proposed Solution: This project will add a pair of digital speed signs and a pair of school flashers.

Cost Estimate: \$106,202.



HB Lee 5: N.E. 162nd Avenue, N.E. Glisan St. to N.E. Halsey St.: Road Condition

Description of Gap or Barrier: The APT identified the poor surface condition of NE 162nd Avenue between N.E. Glisan Street and N.E. Halsey Street as a problem.

Proposed Solution: A total reconstruct of N/E/ 162nd Avenue between N.E. Glisan Street and N.E. Halsey Street is necessary. This would consist of 8” of asphalt and 16” of base rock.

Cost Estimate: \$2,290,716.



HB Lee 6: N.E. 162nd Avenue: Cross-Section: Widening and bike lanes

Description of Gap or Barrier: The existing cross section varies, and lacks bike lanes in some sections.

Proposed Solution: This project adds 5' to each side of the roadway (total 10') and restripes the roadway to include 5' bike lanes on both sides. The potential for protected lanes will be explored during design.

Cost Estimate: \$391,864.



HB Lee 7: N.E. 162nd Ave.: Missing Links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalks on N.E. 162nd Avenue between N.E. Siskiyou Street south to N.E. Glisan Street. APT specifically mentioned the area of N.E. Holliday Street.

Proposed Solution: This project will complete the missing links in the sidewalks on N.E. 162nd Avenue between N.E. Siskiyou Street south to N.E. Glisan Street. Note: This project includes small segments under Portland jurisdiction.

Cost Estimate: \$1,422,880.



HB Lee 8: Intersections of N.E. 172nd Avenue at N.E. Halsey St., N.E. Glisan St.

Description of Gap or Barrier: The APT felt that crossing both N.E. Halsey Street and N.E. Glisan Street at N.E. 172nd Avenue was difficult. In the fall of 2010, after this issue was identified by the APT, flashing beacons were installed at both locations. There are no more potential engineering solutions.

Proposed Solution: These locations may be good candidates for non-engineering solutions, such as walking school buses.

Cost Estimate: N/A.



HB Lee 9: N.E. 172nd Ave., Curb extensions, signs

Description of Gap or Barrier: Speeding on N.E. 172nd Avenue in front of the school was identified as a problem, as well as lack of definition of the school zone.

Proposed Solution: This project will construct curb extensions on N.E. 172nd Avenue, and will install two programmable VCalm driver feedback speed display signs.

Cost Estimate: \$170,000.



HB Lee 10: N.E. 172nd Ave., Relocate crosswalk, construct new crosswalk.

Description of Gap or Barrier: The APT identified problems with the existing crosswalk at N.E. Multnomah Street and N.E. Wasco Street related to visibility and location. Students are actually crossing more directly in front of the school as opposed to using the crosswalk at N.E. Multnomah Street.

Proposed Solution: The crosswalk at N.E. Multnomah will be removed and relocated to a location more directly in front of the school. A crosswalk will be added at Pacific Street.

Cost Estimate: \$30,000.



HB Lee 11: N.E. 172nd Ave./N.E. Pacific St., Missing links, sidewalks.

Description of Gap or Barrier: The APT identified gaps in the sidewalk at the north east corner of N.E. 172nd Avenue and N.E. Pacific Street as a specific issue.

Proposed Solution: This project will complete the gaps in the sidewalk at the north east corner of N.E. 172nd Avenue and N.E. Pacific Street.

Cost Estimate: \$5,000.



HB Lee 12: N.E. 172nd Ave./N.E. Pacific St.: Crossing safety improvements

Description of Gap or Barrier: The APT felt the intersection of N.E. 172nd Avenue and N.E. Pacific Street needed safety enhancements.

Proposed Solution: This project will install a curb-bulb out at to shorten the crossing length for pedestrians and slow traffic at the intersection of N.E. 172nd Avenue and N.E. Pacific Street.

Cost Estimate: \$5,000.



HB Lee 13: N.E. Oregon St.: Missing Links, sidewalks

Description of Gap or Barrier: The APT identified gaps in the sidewalk system on N.E. Oregon Street between N.E. 165th Street and N.E. 172nd Avenue as a gap.

Proposed Solution: This project will complete the missing links in the sidewalk system on N.E. Oregon Street between N.E. 165th Street and N.E. 172nd Avenue.

Cost Estimate: \$296,562.



HB Lee 14: N.E. Pacific St., Speed Humps.

Description of Gap or Barrier: Speeding is an issue on N.E. Pacific Street between N.E.172nd Avenue and N.E. 181st Avenue.

Proposed Solution: This project will install three speed humps on N.E. Pacific Street between N.E.172nd Avenue and N.E. 181st Avenue.

Cost Estimate: \$36,241.



HB Lee 15: Missing Half-Street: NE Pacific St. Opposite Nadaka Open Space

Description of Gap or Barrier: The APT identified the lack of a street section on N.E. Pacific Street opposite the Nadaka Natural Area.

Potential Solution: There is no potential for private development funded half-street improvements at this location since the adjacent property is a park. However if the park were to redevelop, a ½ street improvement could be required. This area may be a candidate for non-engineering solutions such as walking school buses.

Cost Estimate: N/A.



HB Lee 16: N.E. 169th St.: Missing Links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. 169th Avenue between N.E. Hassalo Street and N.E. 168th Place.

Proposed Solution: This project would complete the missing links in the sidewalk system on N.E. 169th Avenue between N.E. Hassalo Street and N.E. 168th Place.

Cost Estimate: \$22,481



HB Lee 17: N.E. 190th Ave.: Missing links, sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. 190th Avenue between N.E. Davis Street and N.E. Couch Lane.

Proposed Solution: This project would complete the missing links in the sidewalk system on N.E. 190th Avenue between N.E. Davis Street and N.E. Couch Lane.

Cost Estimate: \$105,883.



HB Lee 18: Various local streets that connect to N.E. 162nd Ave.: Missing Links, sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk systems of N.E. Wasco Street, N.E. Hassalo Street, N.E. Holliday Street, and N.E. Multnomah Street in the area of N.E. 162nd Avenue.

Proposed Solution: This project will complete missing links in the sidewalk systems of N.E. Wasco Street, N.E. Hassalo Street, N.E. Holliday Street, and N.E. Multnomah Street in the area of N.E. 162nd Avenue.

Cost Estimate: \$1,134,408.



HB Lee 19: N.E. Couch St.: Missing Links, Sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on N.E. Couch Street between N.E. 188th Avenue and N.E. 190th Avenue.

Proposed Solution: This project will complete missing links in the sidewalk system on N.E. Couch Street between N.E. 188th Avenue and N.E. 190th Avenue.

Cost Estimate: \$216,339.



Dexter McCarty 1: Covered Bicycle Storage and Racks

Description of Gap or Barrier: There is a need for additional bicycle storage at the school.

Proposed Solution: This project will provide a covered bicycle storage area and racks. Note:: racks were installed in May, 2011.

Cost Estimate: \$53,489.



Dexter McCarty 2: S.E. Powell Boulevard: Speed Issues

Description of Gap or Barrier: S.E. Powell Boulevard is a barrier due to high speeds and ADT.

Proposed Solution: This project may be a candidate for non-engineering solutions such as walking school buses.

Cost Estimate: N/A.



Dexter McCarty 3: S.E. Hogan Rd: Missing links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalk system on S. E. Hogan Road between S.E. Powell Boulevard and the Springwater Trail. The APT emphasized the area of S.E. Hogan Street and S.E. 9th Street including crossing treatment as a top priority.

Proposed Solution: This project would construct the missing links in the sidewalk system on S. E. Hogan Road between S.E. Powell Boulevard and the Springwater Trail. Also, it would include a pedestrian island at the intersection of S.E. Hogan Street and S.E. 9th Street.

Cost Estimate: \$779,774.

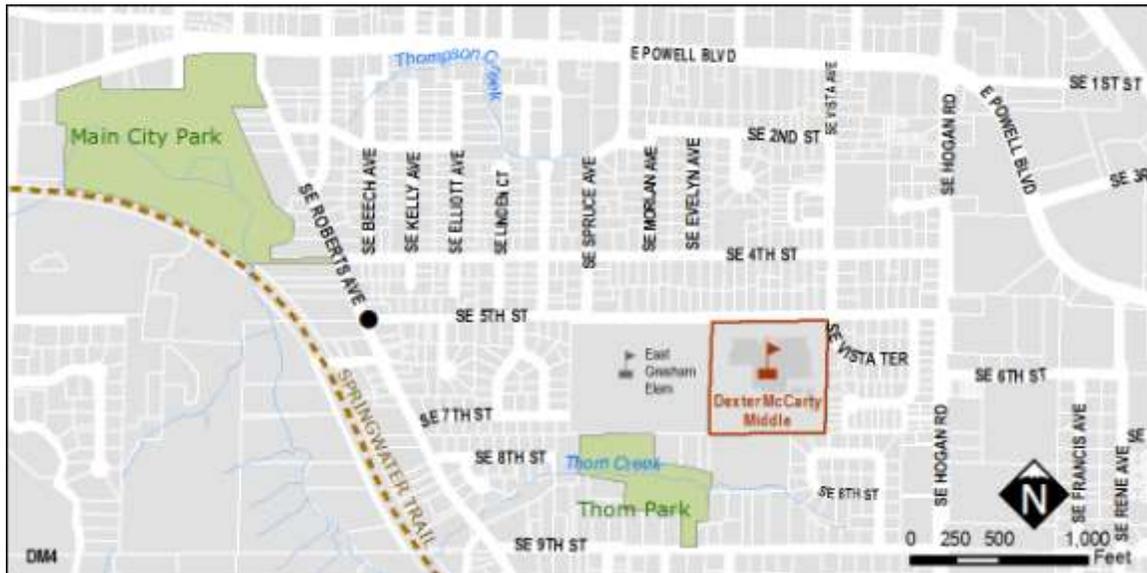


Dexter McCarty 4: S.E. 5th St. and S.E. Roberts Rd.

Description of Gap or Barrier: Three corners of the intersection of S.E. 5th Street and S.E. Roberts Road need ADA ramps. The APT identified the crossing as dangerous. The intersection is slightly skewed (roads do not meet at a 90 degree angle.)

Proposed Solution: This project will construct the needed ramps. The alignment of the crosswalk and striping of bike lanes/cycle track will be re-evaluated further through the TSP process. The ADA work will be done this year by Gresham through its ADA CIP funds.

Cost Estimate: N/A



Dexter McCarty 5: S.E. Palmquist Rd: Missing links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalk system on S.E. Palmquist Road.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. Palmquist Road east of the Springwater School.

Cost Estimate: \$77,210.

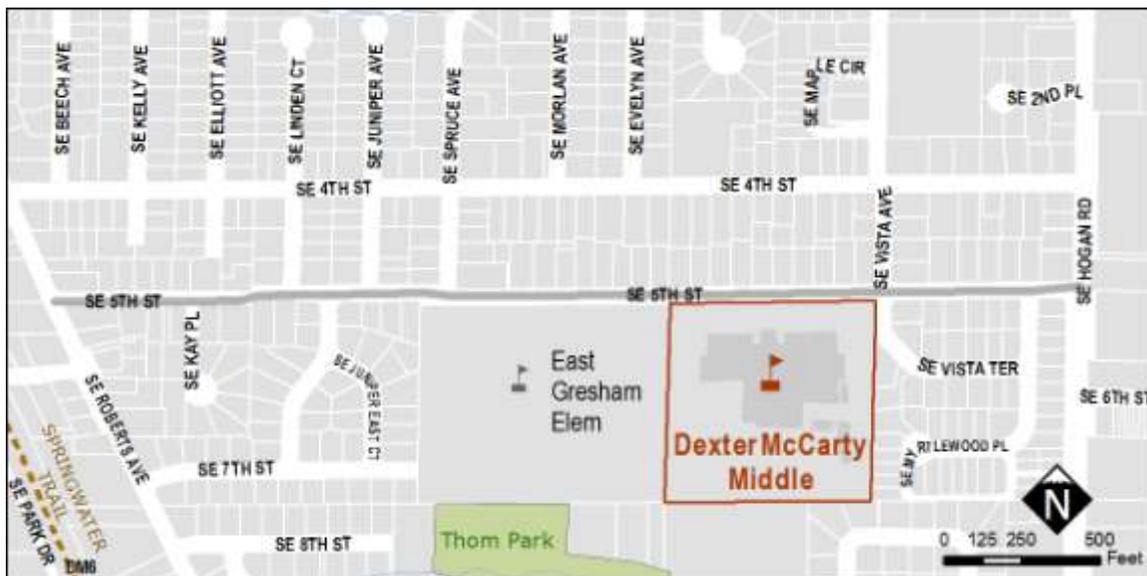


Dexter McCarty 6: S.E. 5th St.: Digital speed signs.

Description of Gap or Barrier: Speeding is an issue on S.E. 5th Street in the vicinity of the school. On street parking restricts lane width and impedes bus movements.

Proposed Solution: This project will add two digital speed signs. Also, signs on the south side of S.E. 5th Street adjacent to the school property that currently state "Loading Zone Only" will be replaced with signs that state "No Parking."

Cost Estimate: \$55,427.



Dexter McCarty 7: S.E. Palmlad Rd.: Missing links, sidewalks

Description of gap or barrier: There are missing links in the sidewalk system on S.E. Palmlad Road between S.E. Palmquist Road and S.E. Telford Road.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. Palmlad Road between S.E. Palmquist Road and S.E. Telford Road.

Cost Estimate: \$600,266.



Dexter McCarty 8: S.E. 9th St.: Missing links, sidewalks.

Description of Gap or Barrier: There are gaps in the sidewalk system on S.E. 9th Street between S.E. Roberts Road and S.E. Hogan Road.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. 9th Street between S.E. Roberts Road and S.E. Hogan Road. Potential crossing treatments will also be considered, for locations such as vicinity of S.E. Hogan Road and S.E. 9th Street(per comments from APT at 4/5/11 meeting.)

Cost Estimate: 563,822.

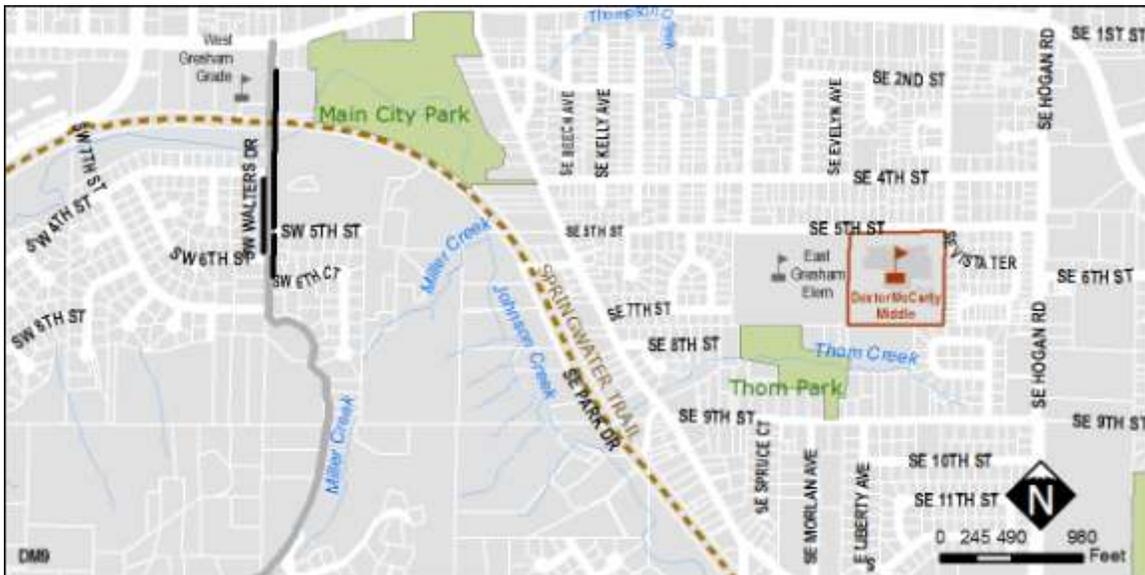


Dexter McCarty 9: S.E. Walters Rd: Missing links, sidewalks.

Description of Gap or Barrier: There are gaps in the sidewalk system on S.E. Walters Road in the vicinity of the Springwater Trail.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. Walters Road between S.E. Powell Boulevard and S.E. 6th Street.

Cost Estimate: \$307,173.



Gordon Russell 1: Improve School Gate Design

Description of Gap or Barrier: The school gate is not wide enough to permit bicycle access.

Proposed solution: This project would widen the school gate to permit bicycle access.

Cost Estimate: \$1,938.



Gordon Russell 2: New Signs to Clarify Bicycles Allowed

Description of Gap or Barrier: Some signs at the school currently indicate “No Bike Riding, Skateboards, or Rollerblades.”

Proposed Solution: This project will provide new signs with clearer wording. The wording of the signs will be developed in conjunction with the Gresham Barlow School District.

Cost Estimate: \$1,163.



Gordon Russell 3: Install path and lighting in back field.

Description of Gap or Barrier: The back field lacks a path and lighting.

Proposed Solution: This project will install a path and lighting.

Cost Estimate: \$12,985.



Gordon Russell 4: Install lighting at east entrance to school grounds.

Description of Gap or Barrier: The entrance to the school grounds at S.E. 6th Street lacks lighting.

Proposed Solution: This project would add lighting to the entrance to the school grounds at S.E. 6th Street.

Cost Estimate: \$4,845.



Gordon Russell 5: Covered Bicycle Parking.

Description of Gap or Barrier: There is no covered bicycle parking at the school. This project will add covered bicycle parking.

Proposed Solution: Add covered bicycle parking.

Cost Estimate: \$53,295.



Gordon Russell 6: Bicycle Helmet and Skateboard Storage.

Description of gap or barrier: A need for storage at the school for bicycle helmets and skateboards was identified by the APT.

Proposed Solution: This project will provide storage units for bicycle helmets and skateboards at the school. The location and design for the units will be further developed in coordination with the Gresham Barlow School District.

Cost Estimate: \$21,318.

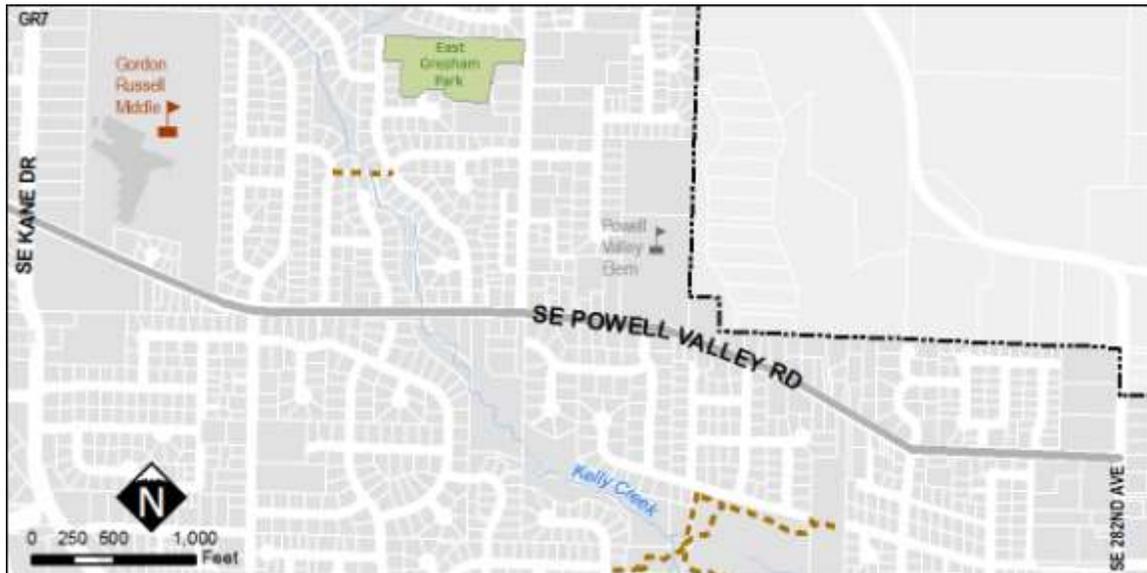


Gordon Russell 7: S.E. Powell Valley Rd: Bicycle Lanes

Description of gap or barrier: There are no bicycle lanes on S.E. Powell Valley Road between S.E. Kane Road and east to S.E. 282nd Avenue.

Proposed Solution: S.E. Powell Valley Road will be widened between S.E. Kane Road and east to S.E. 282nd to allow adequate road width for bicycle lanes, and the lanes will be installed. The potential for protected lanes will be explored during design.

Cost Estimate: \$662,020.

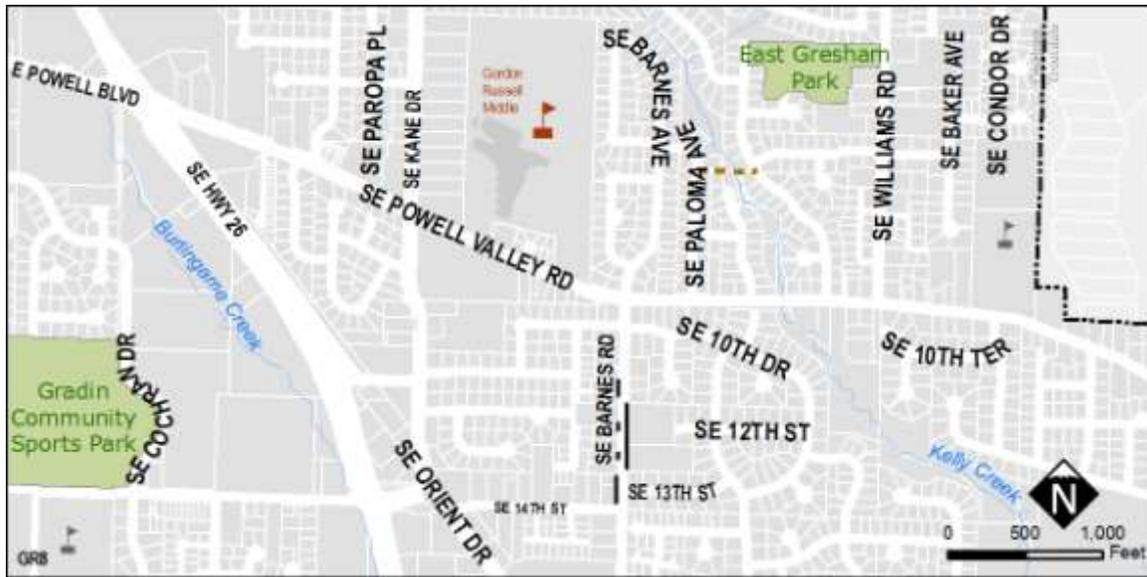


Gordon Russell 8: S.E. Barnes Rd.: Missing links, sidewalks

Description of Gap or Barrier: There are missing links in the sidewalk system on S.E. Barnes Road. The problem is especially critical in the area of S.E. 14th Street.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. Barnes Road, including those in the area of S.E. 14th Street.

Cost Estimate: \$198,015.



Gordon Russell 9: S.E. 1st St, S.E. Kane Dr. to S.E. 3rd St.: Missing links, sidewalks.

Description of Gap or Barrier: There are missing links in the sidewalk system on S.E. 1st Street between S.E. Kane Drive and S.E. 3rd Street. The City of Gresham recently has constructed a crushed asphalt path on the north side of S.E. 1st Street.

Proposed Solution: This project will construct the missing links.

Cost Estimate: \$1,019,388.

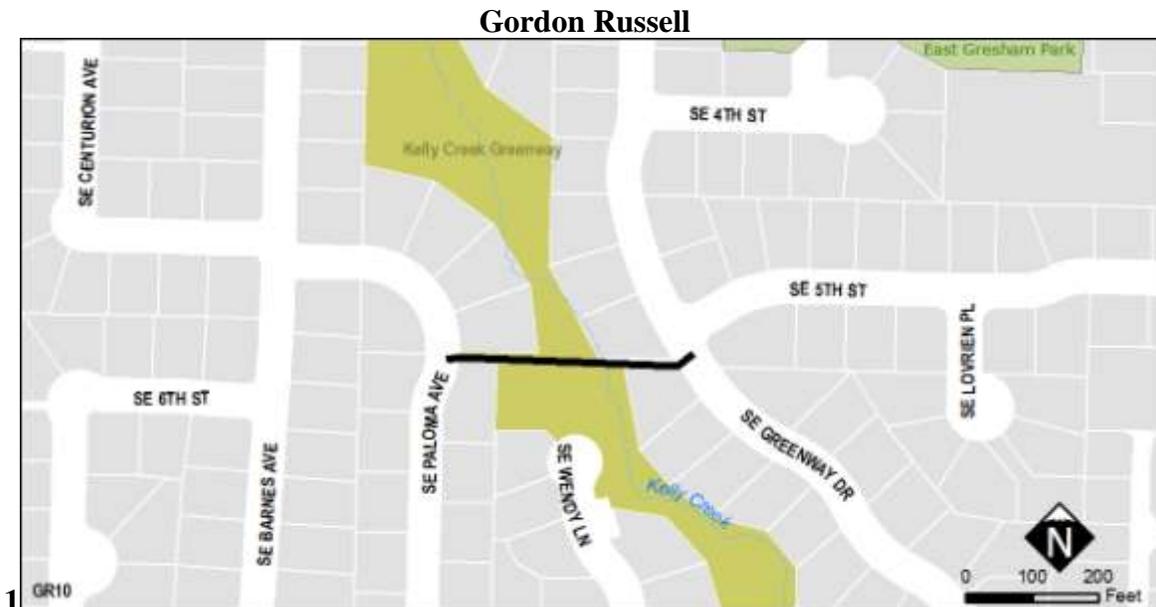


Gordon Russell 10: Lighting, path through Kelly Creek Greenway

Description of Gap or Barrier: There is no lighting along the greenway path that connects S.E. Paloma Avenue to S.E. Greenway Drive.

Proposed Solution: This project will provide lighting for the greenway path that connects S.E. Paloma Avenue to S.E. Greenway Drive.

Cost Estimate: \$14,535.



Powell Valley 1: Covered Bicycle Parking

Description of Gap or Barrier: There is no covered bicycle parking at the school.

Proposed Solution: This project would install covered bicycle parking at the school.

Cost Estimate: \$53,295.



Powell Valley 2: School property Circulation Issues

Description of Gap or Barrier: There is congestion and conflict between private vehicles and buses at the school.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



Powell Valley 3: School Driveway

Description of Gap or Barrier: The school driveway has numerous conflict points.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the school district.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



Powell Valley 4: School parking lot sidewalks.

Description of Gap or Barrier: The school parking lot needs sidewalks in some areas.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



Powell Valley 5: School Fields Path System.

Description of Gap or Barrier: A path system may be needed for the school's back fields.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the School District.



Powell Valley 7: S.E. Powell Valley Rd.: Digital Speed Signs.

Description of gap or barrier: Speeding is an issue on S.E. Powell Valley Road.

Proposed Solution: This project will install two digital speed signs on S.E. Powell Valley Road.

Cost Estimate: \$55,427.



Powell Valley 8: .S.E. Powell Valley Rd.: Pedestrian Island/Crosswalk

Description of gap or barrier: S.E. Powell Valley Road is difficult to cross in the vicinity of the school. There is currently a pedestrian island on Powell Valley Road at the location shown in the graphic, but sight distance concerns were identified by the APT.

Proposed Solution: Staff revisited the site distance issue to see if it was feasible to move the island to the west. However, there are also sight distance issues if we move the island to the west. Therefore there is no potential engineering solution for this issue.

Cost Estimate: \$0.

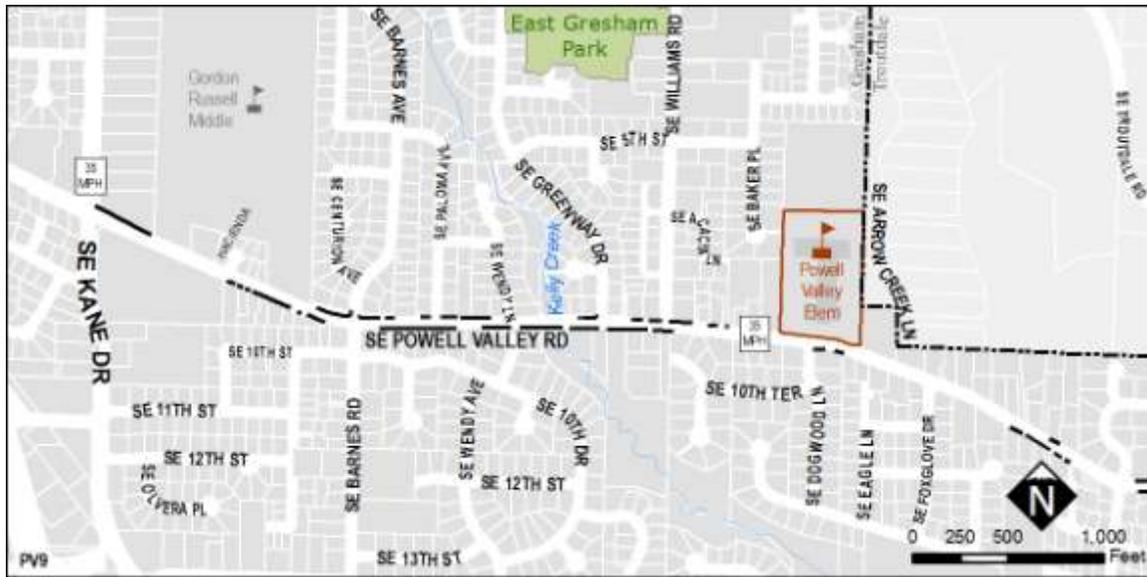


Powell Valley 9: S.E. Powell Valley Rd.: Missing links, sidewalks.

Description of gap or barrier: There are missing links in the sidewalk system along S.E. Powell Valley Road.

Proposed Solution: This project would construct the missing links in the sidewalk system along S.E. Powell Valley Road.

Cost Estimate: \$1,459,808.



Powell Valley 10: S.E. Powell Valley Rd.: Across from S.E. Wendy Lane; sidewalks, south side

Description of gap or barrier: There is a gap in the sidewalk system on S.E. Powell Valley Road across from the intersection with S.E. Wendy Lane.

Proposed solution: This project will construct the missing links in the sidewalk system on S.E. Powell Valley Road across from the intersection with S.E. Wendy Lane. It includes curb.

Cost Estimate: \$97,385.



Powell Valley 11: Intersection Improvements: S.W. Powell Valley Rd. and S.E. Wendy Lane, north side

Description of gap or barrier: There is a gap in the sidewalk system on S.E. Powell Valley Road and S.E. Wendy Lane.

Proposed Solution: This project will construct the missing links in the sidewalk system on S.E. Powell Valley Road and S.E. Wendy Lane. It includes curb.

Cost Estimate: \$169,478.



Powell Valley 12: Bicycle Lanes, S.E. Powell Valley Road

Description of gap or barrier: There are no bicycle lanes on S.E. Powell Valley Road between S.E. Kane Road and east to S.E. 282nd Avenue.

Proposed Solution: S.E. Powell Valley Road will be widened between S.E. Kane Road and east to S.E. 282nd to allow adequate road width for bicycle lanes, and the lanes will be installed. The potential for protected lanes will be explored during design.

Cost Estimate: \$662,020.



Powell Valley 13: S.E. Williams Rd.: Speed Signs.

Description of gap or barrier: There is an issue with speeding on S.E. Williams Road.

Proposed Solution: There are already two digital speed signs on S.E. Williams Road. There are no further engineering solutions related to digital speed signs.

Cost Estimate: \$0.



Powell Valley 14: Definition of School Zone on S.E. Williams Rd.

Description of gap or barrier: Drivers on S.E. Williams Road do not realize that children are walking to school.

Proposed Solution: This project will install four school zone signs and two school flashers.

Cost Estimate: \$53,683.

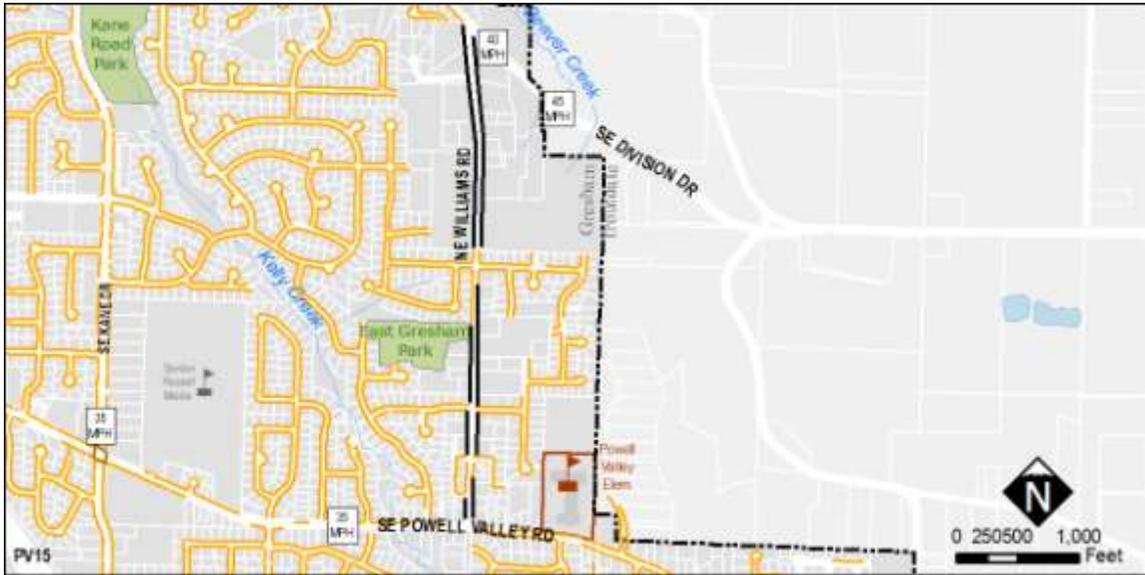


Powell Valley 15: S.E. Williams Rd., Sidewalk, curb and bike lanes

Description of gap or barrier: There are missing links in the sidewalk system on S.E. Williams Road, and also, there are no bike lanes.

Proposed Solution: This project will add sidewalks and bike lanes to S.E. Williams Road. Curb will be required.

Cost Estimate: \$1,172,199.



Powell Valley 16: S.E. Williams Rd./S.E. 5th St.: Safety Improvements to Crossing

Description of gap or barrier: The crossing at S.E. Williams Road and S.E. 5th Street was identified by the APT as unsafe.

Proposed solution: The project will install two school flashers.

Cost Estimate: \$56,396.



West Gresham 1: School Property Circulation

Description of gap or barrier: There are issues with conflicts between buses and private vehicles at the loop driveway in front of the school, and backups on S.E. Powell Boulevard and S.E. Walters Road.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



West Gresham 2: Walking Route at Front of School

Description: This project will construct improvements to the walking route at the front of the school.

Proposed Solution: Construct sidewalks in front of the school.

Cost Estimate: \$30,155.



West Gresham 3: Rhododendron plantings/blocked driveway

Description: Relates to #1 above.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



West Gresham 4: Improvements to School Fence adjacent to S.E. Walters

Description of gap or barrier: The existing school yard fence does not have openings at the points where students would like to access the property.

Proposed Solution: This project will adjust the gate openings.

Cost Estimate: \$1,938.



West Gresham 5: Covered Bicycle Racks

Description of gap or barrier: The main bicycle racks behind the school are “old style” wheel benders, and the racks are not covered. This project will install newer style racks and also a covered structure.

Proposed Solution: Development and implementation of Circulation Plan, in conjunction with the Gresham Barlow School District.

Cost Estimate: This project will require development of a Circulation Plan with the Gresham Barlow School District.



West Gresham 6: Safety on Springwater Trail

Description of gap or barrier: Safety of pedestrians or bicyclists is an issue on the Springwater Trail.

Potential Solution: This issue could be addressed through non-infrastructure solutions, such as walking school buses.

Cost Estimate: N/A.

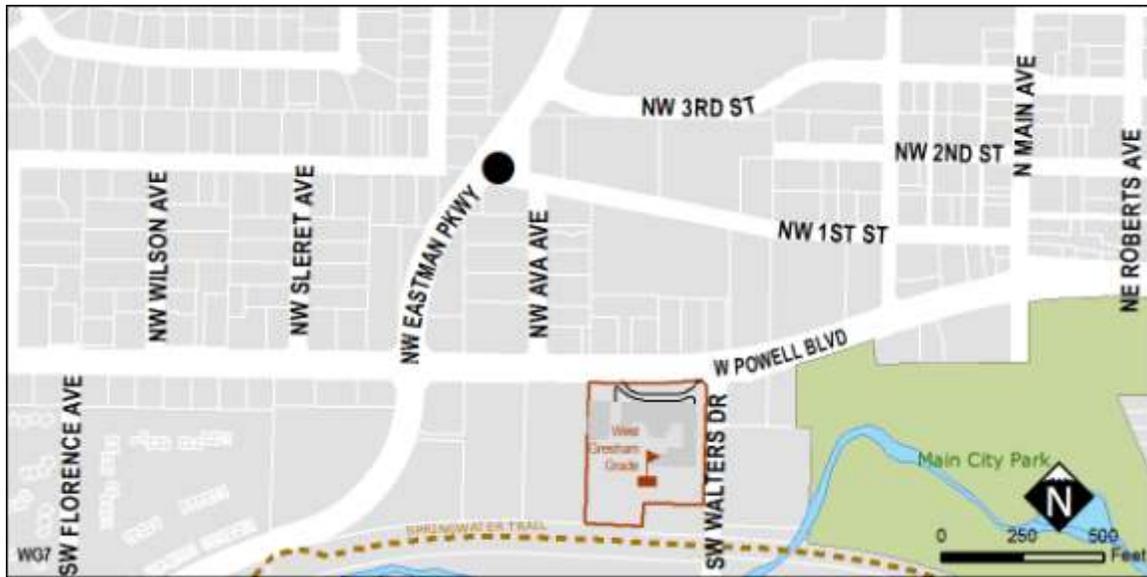


West Gresham 7: N.W. Eastman Parkway and/N.W. 1st St. Intersection: Install RRFB

Description of gap or barrier: The crosswalk at the intersection of N.W. Eastman Parkway and N.W. 1st Street is not safe, as drivers do not consistently perceive the crosswalk and/or persons crossing.

Potential Solution: The crosswalk at this intersection meets warrants for a RRFB treatment.

Cost Estimate: \$53,295.

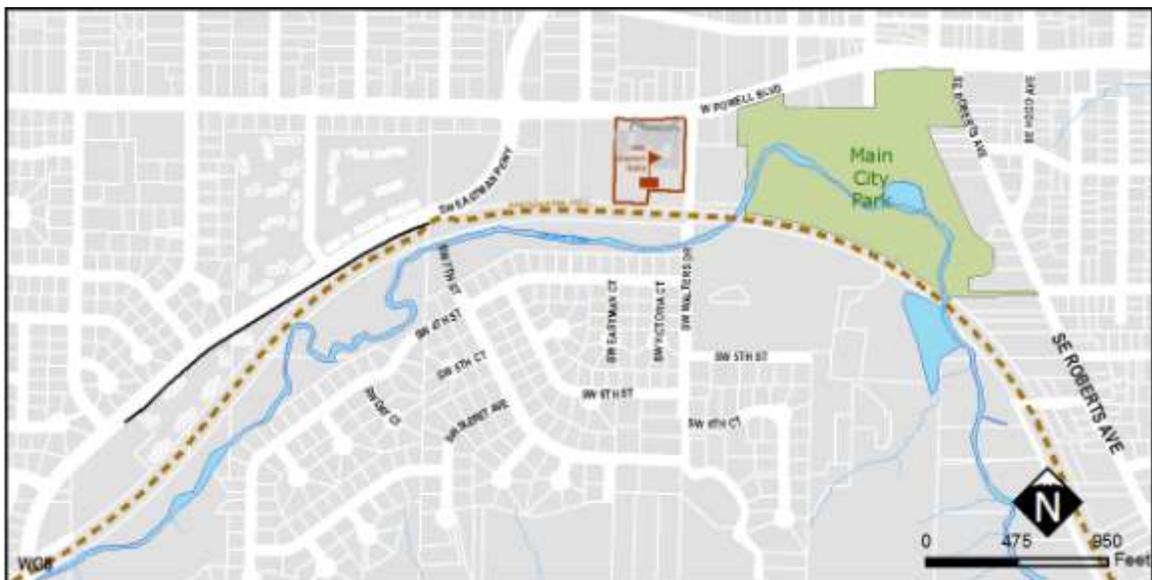


West Gresham 8: N.W. Eastman Parkway Missing Links, sidewalks

Description of gap or barrier: There are missing links in the sidewalk system on N.W. Eastman Parkway south of West Powell Boulevard.

Proposed Solution: This project will construct the missing links in the sidewalk system on N.W. Eastman Parkway south of West Powell Boulevard.

Cost Estimate: \$2,000.



West Gresham 9: S.E. Walters Rd.: Bridge over Johnson Creek

Description of gap or barrier: The sidewalk over the bridge is too narrow and is an impediment for both pedestrians and bicyclists.

Proposed Solution: Two potential solutions were identified for this issue. First, a new bridge could be constructed. Alternatively, a cantilevered sidewalk could be constructed on the west side of the existing bridge.

Cost Estimate: \$2,458,000 for a new bridge (source: Local Highway Bridge Program Estimate, 2009.)
\$116,280 for cantilevered sidewalk.

