

Project Estimate Report: Development Phase

For

SE Mill Street, from SE 135th Avenue to SE 139th Avenue

February 12, 2020

Requested by: First Last

Prepared by: First Last

Location: SE Mill Street from SE 135th Avenue to SE 139th Avenue

Description: Sidewalk infill on the south side of SE Mill St from SE 135th Ave to SE 138th Ave.

SE Mill St from SE 135th Ave to SE 138th Ave

Current Cross-Section: 28' roadway with 0.5' curb within 65' ROW.

Proposed Cross-Section: 28' roadway, existing 0.5' curb, 4' furnishing zone, and 6' sidewalk within 65' ROW.

SE Mill St from SE 138th Ave to SE 139th Ave

Current Cross-Section: 40' roadway with 0.5' curb within 60' ROW.

Proposed Cross-Section: 40' roadway, existing 0.5' curb, 4' furnishing zone, and 6' sidewalk within 60' ROW.

Issues:

- Water – Existing water service boxes are in proposed walkway, relocate to furnishing zone.
- BES (storm, sanitary, water-quality facilities) – SED/SUMP existing, assess stormwater fees, per BES.
- Signals and Street Lighting – Removal of flashing red signal, per SSL
- Environmental and Zoning – None identified
- Contaminated Media – None identified
- Right-of-Way Needs – Existing fences built in ROW on SE Mill St between SE 138th and 139th Ave
- Railroads (BNSF; UPRR; PTTR) – None Identified
- Parks (landscaping and irrigation) – None identified.
- Urban Forestry – Assume new trees per Title 11.
- Other Jurisdictions (counties, schools, Port, ODOT, Tri-Met) – None identified.

Cost Estimate:

| | |
|---|------------|
| Total Construction | \$ 506,000 |
| Project Management (7%) | \$ 27,000 |
| Design Engineering (30%) | \$ 115,000 |
| Construction Management (20%) | \$ 77,000 |
| Right-of-Way (Cost + 30% Contingency) | \$ 43,000 |
| Overhead (80.85%) | \$ 177,000 |
| Total Inflation and Allowance for Design Refinement | \$ 360,000 |

Total Project Estimate: \$ 1,305,000

Estimating Assumptions:

- Assumes Existing conditions are based on GIS and Google Street View.
- Used PCDP Cost Estimate Template (Projects < \$1M).
- No acquisition of ROW.
- Modal coordinator(s) concurrence for project elements (Insert all Modal Coordinator names as applicable).
- TCEs for R7 zoning at \$15 SQFT, per (Right of Way Agent's Name here)
TCE calculations are 5' behind sidewalk and 10' around driveways. Only assess area inside property lines.
- Existing Fences along 2 properties (currently in ROW) will be moved by owner after notification.
- No retaining walls for sidewalk infill areas.
- BES stormwater fees assessed for all new sidewalk SQFT, and entire SQFT of any ramp upgraded with curb extensions, per direction from (BES Liaison Name here).
- 2 inlets to be replaced during improvement.
- All driveways (Qty 8) to be improved within work corridor.
- Each corner of any improved block to receive new ADA ramps (Qty 4)
- Relocate water meter boxes into the furnishing zone (Qty 8)
- No impact to fire hydrant located on SE Mill St between SE 135TH Ave & SE 138TH Ave.
- Add asphalt (13" pavement repair) to south side of 138th intersection (assumes 28' side street, per TDS) where currently is gravelled to allow hard surfaces between new ADA curbs.
- \$25,000 to address infill lighting enhancements, per (Signals Designer Name here).
- Removal of 4-way flashers at SE Mill St and SE 138th Ave, per TDS & SSL
- All crosswalks are type continental, SE Mill St and SE 135th Ave, and 138th Ave (8x125 SQFT B-HS) per TDS
- Other signing and striping considered negligible, to be covered with the contingency.
- Topsoil and seeding for furnishing zones
- New trees (1 every 25 feet, per Title 11) = 22 Trees
- TP & DT to be paid complete to include devices, lump sum rate increased to 9% from 6.5%, per (EOR or Traffic Designer name here).
- The years of inflation for this project is 4 years.
- The level of confidence for this estimate is **low**.

Review & Approval:

Reviewed by Engineer of Record

Date

Reviewed and Approved by Engineering Services Division Manager

Date

Attachments:

- Detailed estimate spreadsheet
- Site map

SAMPLE

**CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
PRELIMINARY ENGINEER'S ESTIMATE FOR LESS THAN \$1M
SIDEWALK INFILL**

Date: February 12, 2020 By: First Last

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE MILL ST FROM SE 135TH AVE TO SE 139TH AVE (SOUTH SIDE ONLY)

VALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

| NO. | ITEMS OF WORK AND MATERIALS | SPEC REFERENCE | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL AMOUNT |
|-----------------|--|----------------|------|----------------|--------------|---------------|
| 1 | MOBILIZATION | 0210 | LS | 1.00 | \$ 35,561.10 | \$ 35,561.10 |
| 2 | TEMPORARY PROTECTION & DIRECTION OF TRAFFIC | 0225 | LS | 1.00 | \$ 26,670.83 | \$ 26,670.83 |
| 16 | STRIPING & STRIPE REMOVAL MOBILIZATION, COMPLETE | 0225 | EACH | 1.00 | \$ 1,483.00 | \$ 1,483.00 |
| 24 | EROSION CONTROL | 0280 | LS | 1.00 | \$ 3,141.23 | \$ 3,141.23 |
| 30 | INLET PROTECTION | 0280 | EACH | 4.00 | \$ 257.00 | \$ 1,028.00 |
| 31 | POLLUTION CONTROL PLAN | 0290 | LS | 1.00 | \$ 681.59 | \$ 681.59 |
| 45 | REMOVAL OF STRUCTURES & OBSTRUCTIONS | 0310 | LS | 1.00 | \$ 14,817.13 | \$ 14,817.13 |
| 47 | CLEARING AND GRUBBING | 0320 | LS | 1.00 | \$ 7,408.56 | \$ 7,408.56 |
| 51 | GENERAL EXCAVATION | 0330 | CUYD | 141.00 | \$ 74.40 | \$ 10,490.40 |
| 84 | 10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D, COMPLETE | 0445 | FOOT | 40.00 | \$ 110.00 | \$ 4,400.00 |
| 102 | CONCRETE INLETS, TYPE G-2 | 0470 | EACH | 2.00 | \$ 2,946.00 | \$ 5,892.00 |
| 158 | 13 INCH ASPHALT CONCRETE PAVEMENT REPAIR | 0748 | SQYD | 66.00 | \$ 166.80 | \$ 11,008.80 |
| 159 | 17 INCH ASPHALT CONCRETE PAVEMENT REPAIR | 0748 | SQYD | 207.00 | \$ 163.50 | \$ 33,844.50 |
| 174 | MONOLITHIC CURB AND DRIVEWAYS | 0759 | SQFT | 2,993.00 | \$ 26.00 | \$ 77,818.00 |
| 177 | CONCRETE WALKS | 0759 | SQFT | 3,316.00 | \$ 13.20 | \$ 43,771.20 |
| 178 | MONOLITHIC CURB AND SIDEWALKS | 0759 | SQFT | 853.00 | \$ 23.00 | \$ 19,619.00 |
| 183 | CONCRETE DRIVEWAY CONNECTIONS | 0759 | SQFT | 478.00 | \$ 20.00 | \$ 9,560.00 |
| 214 | THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED | 0865 | FOOT | 300.00 | \$ 3.28 | \$ 984.00 |
| 220 | PAVEMENT BAR , TYP B-HS | 0867 | SQFT | 1,000.00 | \$ 23.45 | \$ 23,448.54 |
| 247 | REMOVAL OF ELECTRICAL SYSTEMS (traffic signals) | 0950 | LS* | 1.00 | \$ 2,400.00 | \$ 2,400.00 |
| 251 | LUMINAIRES, LAMPS AND BALLASTS (Infill lighting, per SSL) | 0970 | LS* | 1.00 | \$ 25,000.00 | \$ 25,000.00 |
| 262 | LAWN SEEDING | 1030 | SQYD | 274.11 | \$ 9.33 | \$ 2,558.37 |
| 263 | TOPSOIL | 1040 | CUYD | 45.69 | \$ 69.18 | \$ 3,160.71 |
| 266 | DECIDUOUS TREES, 2-1/2 INCH CALIPER | 1040 | EACH | 22.00 | \$ 822.00 | \$ 18,084.00 |
| 294 | REMOVE & REINSTALL MAILBOX SUPPORTS | 1070 | EACH | 8.00 | \$ 224.00 | \$ 1,792.00 |
| TOTAL BID ITEMS | | | | | | \$ 384,622.96 |

ANTICIPATED ITEMS

| NO. | ITEMS OF WORK AND MATERIALS | REFERENCE | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|-----|---|-----------|------|----------|--------------|--------------|
| 3 | RELOCATE WATER FACILITIES - METER | | EACH | 8.00 | \$ 6,000.00 | \$ 48,000.00 |
| 9 | STORMWATER OFFSITE MANAGEMENT FEE | | SQFT | 4169.00 | \$ 3.70 | \$ 15,425.30 |
| 15 | BOLI FEE PAYMENT | | LS | 1.00 | \$ 384.62 | \$ 384.62 |
| 16 | CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE) | | LS | 1.00 | \$ 38,462.30 | \$ 38,462.30 |

TOTAL ANTICIPATED ITEMS \$ 102,272.22

SCHEDULE SUMMARY

| | | |
|---|---------------------------|-------------------|
| BID ITEMS | | \$ 384,623 |
| CONSTRUCTION CONTINGENCY | 5% of Bid Items* | \$ 19,231 |
| SUBTOTAL | | \$ 403,854 |
| ANTICIPATED ITEMS | | \$ 102,272 |
| TOTAL CONSTRUCTION | | \$ 506,126 |
| PROJECT MANAGEMENT | 7% of Bid Items | \$ 26,924 |
| DESIGN ENGINEERING | 30% of Bid Items | \$ 115,387 |
| CONSTRUCTION MANAGEMENT | 20% of Bid Items | \$ 76,925 |
| SUBTOTAL | | \$ 219,236 |
| PROJECT ENGINEERING & MANAGEMENT OVERHEAD | 80.85% of PM, Eng, and CM | \$ 177,252 |

| NO. | ITEMS OF WORK AND MATERIALS | SPEC REFERENCE | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL AMOUNT |
|--|--|----------------|-------|----------------|---|---------------------|
| TOTAL PROJECT ENGINEERING & MANAGEMENT | | | | | | \$ 396,488 |
| | RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES | | | | | \$ 33,060 |
| | RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION | | | | | \$ - |
| | RIGHT-OF-WAY CONTINGENCY | | | 30% | of Land, Improve, and Damages | \$ 9,918 |
| TOTAL PROJECT RIGHT-OF-WAY | | | | | | \$ 42,978 |
| | INFLATION RATE ON CONTRACT | | Years | 4 | Inflation 5.1% of Construction | \$ 111,420 |
| | INFLATION RATE ON PERSONNEL | | 4 | | 2.3% of Eng & Mgmt | \$ 37,755 |
| | ALLOWANCE FOR DESIGN REFINEMENT | | | | 20% of Const, Eng & Mgmt, and Inflation | \$ 210,358 |
| TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT | | | | | | \$ 359,533 |
| TOTAL PROJECT ESTIMATE | | | | | | \$ 1,305,125 |

Legend

-  Ramp
-  Gutter
-  Sidewalk
-  Asphalt Connection
-  Concrete Connection
-  Saw Cut

0 20 40 60 80
FEET

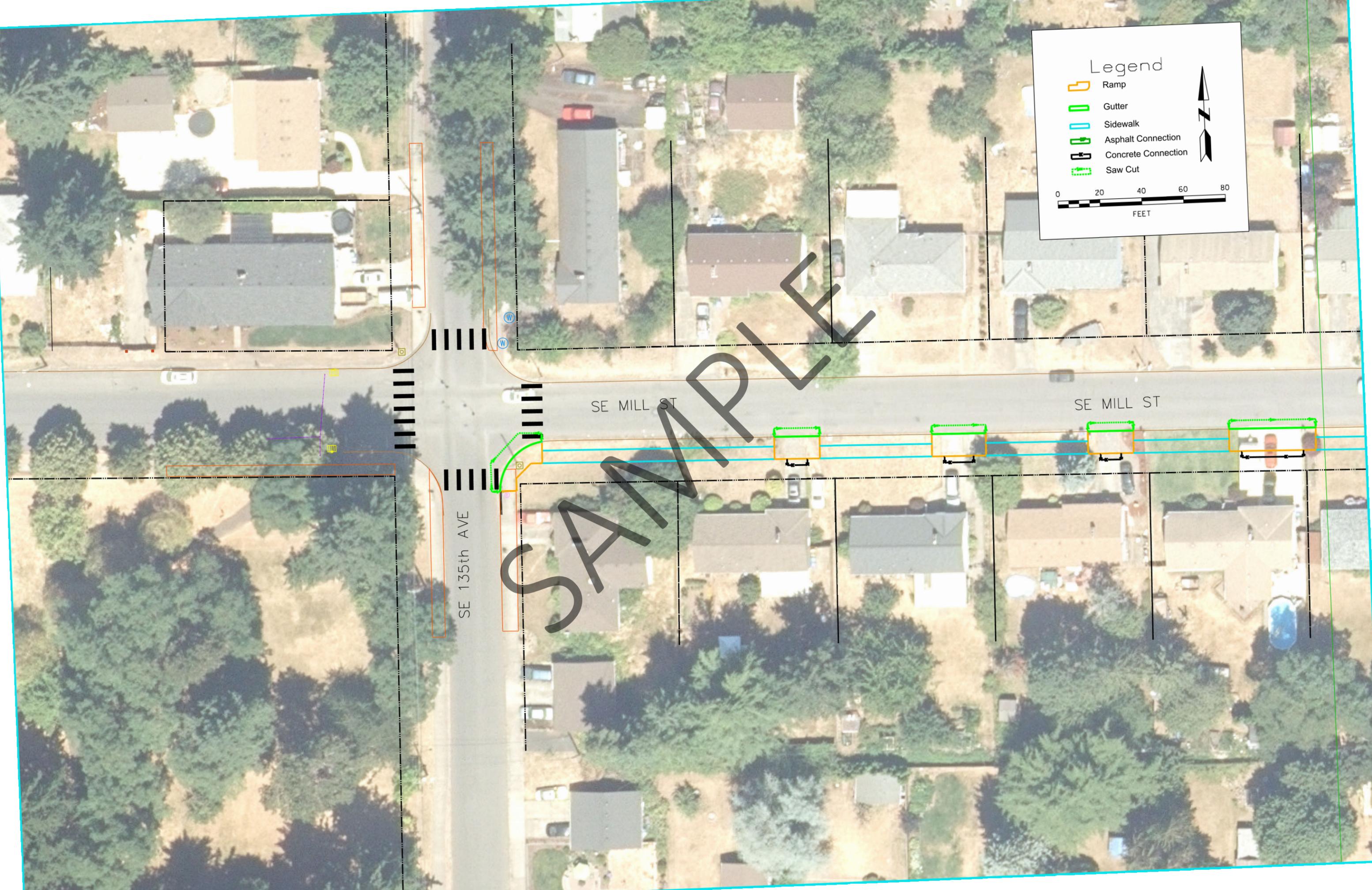


SAMPLE

SE 135th AVE

SE MILL ST

SE MILL ST



Legend

-  Ramp
-  Gutter
-  Sidewalk
-  Asphalt Connection
-  Concrete Connection
-  Saw Cut

0 20 40 60 80
FEET



SE 138th AVE

SE 139th AVE

SE MILL ST

SE MILL ST

SAMPLE

