

PLEASANT VALLEY TSP REFINEMENT

>>> Cost Estimate Summary



October 3, 2018

CONTENTS

Cost Estimate Overview2
Cost Estimate
Jenne Road and 174th Extension Costs
Other Project Construction Costs
Environmental Mitigation Costs
Total Costs
Next Steps

COST ESTIMATE OVERVIEW

This memorandum describes the planning-level cost estimates of four alternatives for the Pleasant Valley Transportation System Plan (TSP). Five initial alternatives were developed; however, Alternative 5 was eliminated based on input from the technical advisory committee (TAC) and citizen advisory committee (CAC).

Key findings of this memorandum are as follows:

Several new or widened roadways may need to be constructed as capital projects in order to initiate and support development.

IN THIS PAPER>>>

- Detailed Jenne Road and 174th Extension cost comparison
- Planning-level roadway costs
- Environmental mitigation costs
- The Jenne Road improvement is projected to cost approximately \$12,837,000 and 174th Avenue extension north of Giese Road is projected to cost approximately \$25,270,000. Jenne Road project costs vary slightly for Alternative 3 due to the southern realignment.
- Excluding Jenne Road improvements, 174th Avenue extension, stream crossing structures, and right-of-way, arterial roadway projects are anticipated to cost \$36,600,000 for Alternative 1 and 2, \$38,600,000 for Alternative 3, and \$43,700,000 for Alternative 4.
- Alternative 2, Alternative 3, and Alternative 4 have higher permitting and environmental mitigation costs. Alternative 2 impacts environmentally sensitive areas along 174th Avenue extension and Alternative 3 and 4 impact areas along the widened Foster Road. Alternative 1 has lower environmental mitigation costs due to the localization of Foster Road.

- Alternative 3 has the potential for higher roadway and environmental mitigation costs as well as property impacts to create the Jenne Road/Foster Road/Giese Road 4-leg intersection.
- Alternative 2 has the highest projected total cost and Alternative 1 has the lowest projected total costs. Total costs do not include right-of-way and the number of stream crossings have the potential to increase the variability of the estimates.

COST ESTIMATE

The four alternatives were evaluated to determine planning-level cost estimates. Detailed costs for the Jenne Road improvements and SE 174th extension and planning-level costs for the remaining arterial roadways were developed. The cost estimates include roadway construction and environmental mitigation. The assumptions, analysis, and findings are described below.

JENNE ROAD AND 174TH EXTENSION COSTS

Due to the geometric challenges associated with improving Jenne Road or developing the 174th Avenue extension, these projects were evaluated in greater detail. Alternatives 1, 3 and 4 include improving Jenne Road to provide a separated multi-use path, northbound left-turn lane at Jenne Lane, southbound left-turn lane at SE McKinley Road, and two-way left turn lane between SE McKinley Road and SE Foster Road. Alternative 2 includes developing the 174th Avenue extension, which was assumed to include two to three vehicle travel lanes, bike lanes, planter strips, and sidewalks.

Jenne Road has two stream crossings that would need to be replaced and improved in Alternatives 1 and 4. Alternative 3 has the two replaced stream crossings and one new stream crossing near its intersection with Foster Road. The SE 174th Extension in Alternative 2 has five new stream crossings and one improved stream crossing on the north end of Jenne Road near its intersection with SE 174th Extension.

Major cost items for both projects include the retaining walls and bridges needed to address the steep grades in and around Powell Butte. Other major cost items on the 174th Avenue extension included clearing and grubbing, treatment planters, aggregate base, and pavement. Cost estimates also include a 30% construction contingency, 10% preliminary design, and 11% inspection and construction management on top of the construction items. These cost estimates do not include right-of-way purchases or environmental mitigation. The cost estimate for the 174th extension between Jenne Road and Giese Road is approximately \$25,270,000. The cost estimate for the Jenne Road improvements between the Springwater Trail crossing and Foster Road is approximately \$12,837,000. Detailed cost estimates are included in Appendix A.

OTHER PROJECT CONSTRUCTION COSTS

Project costs for arterial projects other than Jenne Road and the 174th extension were estimated based on the length and width of existing and proposed roadways. New roadways were estimated at \$3,100 per length foot (LF) and reconstructed roadways were estimated at \$2,600 per LF. Table 1 shows the projects within the study area, indicating whether they would be a new or improved roadway, the project length, and estimated cost.

In addition, it is noted where projects include stream crossings, which could add additional costs associated with bridge or culvert structures and increase the potential variability in the cost estimates.

		New/	Length	Stream Crossings		Cost
Roadway (Extents)	Alternative	Improved	(feet)	New	Replaced	Estimate
	3	New	1,100	0	0	\$3,410,000
Foster Road (Jenne Road to 172 nd Avenue)	0	Improved	2,700	0	1	\$7,020,000
,	4	Improved	3,060	0	1	\$7,956,000
Foster Road (172 nd Avenue to Cheldelin Road)	4	Improved	2,520	0	2	\$6,552,000
Giese Road (Jenne Road to 172 nd Avenue)	1, 2, 3, 4	New	2,650	0	1	\$8,215,000
Giese Road (172 nd Avenue to 190 th Avenue)	1, 2, 3, 4	New	5,090	1	0	\$15,779,000
172 nd Avenue (Giese Road to Foster Road)	1, 2	New	2,590	0	1	\$8,029,000
	1, 2		1,760			\$4,576,000
172 nd Avenue (Foster Road to Cheldelin Road)	3	Improved	1,600	0	0	\$4,160,000
	4		1,990			\$5,174,000

Table 2 totals the projects associated with each alternative, presenting the total roadway construction costs associated with the projects in Table 1.

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	Stream Crossings		Roadway Costs Excluding Right-of-	Total Roadway Costs			
Alternative	New	Replaced	Way	Excluding Right-of-Way			
Alternative 1	1	4	\$36,600,000 + Jenne Road	\$49,910,000			
Alternative 2	6	3	\$36,600,000 + 174 th Extension	\$62,487,000			
Alternative 3	2	4	\$38,584,000 + Jenne Road	\$52,271,000			
Alternative 4	1	6	\$43,676,000 + Jenne Road	\$57,073,000			

Table 2. Project Construction Costs by Alternative (Excluding Jenne Road and 174th Extension)

As shown in the table, roadway construction costs excluding right-of-way and the Jenne Road and 174th Extension are projected to be similar across alternatives, with Alternative 2 including the highest construction costs and the most stream crossings which increase the potential variability in the cost estimates. These costs do not include right-of-way. With the exception of Jenne Road and 174th Avenue, construction costs are not significantly different across alternatives. Alternative 4's costs could be lowered by downgrading SE Foster Road to a collector east of SE 172nd Avenue or downgrading SE 172nd Avenue to a collector south of SE Foster Road.

ENVIRONMENTAL MITIGATION COSTS

Environmental mitigation costs were developed in the April 30, 2018 memo developed by Mason, Bruce & Girard, Inc. entitled Pleasant Valley Transportation System Plan (TSP) Refinement - Natural Resources Review of Roadway Alternatives. The environmental costs include several components:

- Mitigation of wetland impacts and permitting costs associated with impacts
- Mitigation of upland/riparian wildlife habitat

The environmental costs were identified by roadway segment, as done with the project construction costs. The cost estimates focused on the key study roadways with distinct alignments between the alternatives – 174th Avenue, Jenne Road, Foster Road, Giese Road, and 172nd Avenue.

Table 3. I	Environmental	Mitigation	Costs
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Roadway (Extents)	Alternative	Cost Estimate
Jenne Road (Existing Alignment)	1, 4	\$58,621
Jenne Koda (Existing Alighment)	3	\$89,507
174 th Avenue (Giese to Jenne)	2	\$202,180
	1, 2	\$162,277
Foster Road (Jenne Road to Cheldelin Road)	3	\$369,278
	4	\$413,312
Giese Road (172 nd Avenue to Jenne Road)	1, 2, 3, 4	\$72,613
	1, 2	\$180,552
172 nd Avenue (Giese Road to Cheldelin Road)	3	\$18,639
	4	\$15,030

As shown in the table, the permitting costs associated with Foster Road are significantly higher with Alternative 3 or 4 compared to Alternative 1 or 2, while the opposite is true for the costs associated with 172nd Avenue. This is because Foster Road was assumed to be a local road in Alternative 1 and 2. Overall, the total environmental permitting costs associated with each alternative (considering Foster Road, Giese Road, and 172nd Avenue) are not significantly different.

TOTAL COSTS

A summary of the total cost of the elements considered is shown in Table 4 below.

Table 4. Total Costs

		Other Arterial	Stream Crossings		Stream Crossings		Environmental	Total Preliminary Costs (Stream
Alternative	Jenne Road or 174 th Cost	Roadway Costs	New	Replaced	Mitigation Costs	Crossings New/ Replaced)		
1	\$12,837,000 (Jenne)	\$36,600,000	1	4	\$474,000	\$49,910,000 (2/3)		
2	\$25,270,000 (174 th Extension)	\$36,600,000	6	3	\$618,000	\$62,487,000 (7/2)		
3	\$13,317,000 (Jenne)	\$38,584,000	2	4	\$550,000	\$52,271,000 (2/4)		
4	\$12,837,000 (Jenne)	\$43,676,000	1	6	\$560,000	\$57,073,000 (1/6)		

As shown, Alternative 2 is projected to have the highest total cost and Alternative 1 is projected to have the lowest total cost. All alternatives require varying right-of-way impacts and stream crossing structures, which will alter total costs and may change which alternative is the highest or lowest cost.

NEXT STEPS

This assessment provides high-level cost estimate to aid in the evaluation of alternatives. It will be used alongside the operational assessment, environmental review, and goals and objectives to determine which alternatives to advance in the screening process. Additional refinement of the cost estimate will be completed for the preferred alternative.

Appendix A Detailed Cost Estimates for Jenne Road and 174th Avenue Extension

SECTION				COUNTY	
	172nd (Foster to Jenne)	4		Mul	tnomah
KEY NUMBER	KIND OF WORK	LENGTH	DATE	ROADWAY DESIGNER	
	Grading, Drainage, Structures , Paving, Signals, Signing, and Roadside Dev		5/1/18		
ITEM NUMBER	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT COST	TOTAL
MOBILIZATION A	ND TRAFFIC CONTROL			· · · · · ·	
0210-0100000A	MOBILIZATION	LS	All	8.00%	\$1,485,272.0
0225-0100000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC, COMPLETE (5%)	LS	1	2.50%	\$464,147.5
0280-0100000A	EROSION CONTROL (4%)	LS	1	4.00%	\$742,636.0
0290-0100000A	POLLUTION CONTROL PLAN	LS	1	\$5,000.00	\$5,000.0
0245-0100000A	TEMPORARY WATER MANAGEMENT FACILITY AT STATION	LS	2	\$30,000.00	\$60,000.0
ROADWORK			-		
0310-0106000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1	\$150,000.00	\$150,000.0
0320-0100000A	CLEARING AND GRUBBING	LS	1	\$2,500,000.00	\$2,500,000.0
0330-0105000K	GENERAL EXCAVATION	CUYD	37,000	\$20.00	\$740,000.0
0331-0106000J	12 INCH SUBGRADE STABILIZATION	SQYD	9,600	\$20.00	\$192,000.0
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	38,500	\$0.90	\$34,650.0
EROSION CONTR		FOOT	40.000	64.0F	¢60.000.0
0280-0113000F 0280-0114020E	SEDIMENT FENCE	FOOT EACH	16,000 52	\$4.25 \$75.00	\$68,000.0 \$3,900.0
0260-0114020E		EACH	52	\$75.00	\$3,900.0
DRAINAGE AND S					
0445	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	3,625	\$100.00	\$362,500.0
0445	15 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	2,600	\$125.00	\$325,000.0
0445	18 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	2,600	\$150.00	\$390,000.0
0415	MAINLINE VIDEO INSPECTION	FOOT	8,825	\$4.00	\$35,300.0
0470-0307000E	CONCRETE CATCH BASIN.	EACH	52	\$2,000.00	\$104,000.0
0470-0101000E	CONCRETE STORM SEWER MANHOLES	EACH	26	\$4,500.00	\$117,000.0
0470-xxxxxx	TREATMENT PLANTERS	SF	26,370	\$100.00	\$2,637,000.0
STRUCTURES					
0596-0108000A	BRIDGE STRUCTURE	SQFT	12,000	\$225.00	\$2,700,000.0
0596-0108000A	RETAINING WALL, TYPE MSE (6 - 15 ft)	SQFT	15,100	\$65.00	\$981,500.0
0596-0108000A	RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft)	SQFT	18,500	\$80.00	\$1,480,000.0
BASES			•	1	
0641-0102000M	AGGREGATE BASE	TON	35,796	\$32.00	\$1,145,480.6
WEARING SURFA		TON	40.504	# 400.00	\$4.050.077 F
0745-0302000M	LEVEL 3, 1/2 INCH ACP	TON	19,521	\$100.00	\$1,952,077.5
0759-0103000F 0759-0128000J	CONCRETE CURB & GUTTER CONCRETE WALKS	FOOT SQFT	16,250 93,000	\$15.00 \$6.00	\$243,750.0
0759-01280000		SQFT	93,000	\$0.00	\$558,000.0
	INFIC CONTROL AND GUIDANCE DEVICES				
0865	STRIPING	LS	1	\$50,000.00	\$50,000.0
0000		20		φ00,000.00	\$00,000.0
PERMANENT TRA	AFFIC CONTROL AND ILLUMINATION SYSTEMS	1			
0940-XXXXXXXX	PERMANENT SIGNS, COMPLETE	LS	1	\$60,000.00	\$60,000.0
0970-XXXXXXXX	STREET LIGHTING SYSTEM, COMPLETE	EACH	52		\$390,000.0
0990-0102000A	TRAFFIC SIGNAL MODIFICATION	LS	1	\$350,000.00	\$350,000.0
		1			
RIGHT-OF-WAY D	EVELOPMENT AND CONTROL				
1030	PLANTER STRIP	SF	77,552	\$6.00	\$465,312.0
1030	DISTURBED AREAS STABILIZATION	SF	155120	\$3.00	\$465,360.0
SUBTOTAL, Cons					\$21,258,00
	Construction Contingencies (30%)			30%	\$6,377,400.0
	Preliminary Design				\$2,763,540.0
	Inspection/CM			11%	\$3,039,894.0
	ROW	1			\$0.0
TOTAL CONOTON	CTION COST				\$33,439,00

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0335-0108000J 12 IRCH SUBGRADE STABILIZATION SQYD 2,800 \$20,00 0335-0108000J SUBGRADE GEOTEXTILE SQYD 10,500 \$0.90 EROSION CONTROL 2820-01130000 SEDIMENT FENCE FOOT 5,200 \$4.25 0280-01130000 SEDIMENT FENCE FOOT 1,280 \$100.00 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,280 \$100.00 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 3,060 \$4.00 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 3,060 \$4.00 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 3,060 \$4.00 0445 16 INCH STORM SEWER MANHOLES EACH 116 \$4.50.00 0470-0101000 CONCRETE CATCH BASIN. EACH 10 \$4.50.00 0470-0101000A RETAINING WALL, TYPE MSE (6 - 15 ft) SCPT 0 \$65.00 05696-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQPT 0 <t< td=""><td>\$320,000.</td></t<>	\$320,000.
01950-0105000_J SUBGRADE GEOTEXTILE SQYD 10,500 \$0,90 EROSION CONTROL	\$52,000.
EROSION CONTROL EROSION CONTROL EROSION CONTROL SEDIMENT FENCE FOOT 5,200 \$4.25 0280-0113000F ISEDIMENT FENCE FOOT 5,200 \$4.25 0280-0114020E INLET PROTECTION, TYPE 2 EACH 18 \$75.00 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$128.00 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$150.00 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$150.00 0445 16 INCH STORM SEWER NUPE, 5 FT DEPTH FOOT 900 \$150.00 0445 16 INCH STORM SEWER MANHOLES EACH 18 \$2.000.00 0470-0101000 CONCRETE STORM SEWER MANHOLES EACH 18 \$2.25.00 0569-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$86.00 0569-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$80.00 0745-0302000M RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$8	\$9,450.
D280-0113000F SEDIMENT FENCE FOOT 5.200 \$4.25 D280-0114020E INLET PROTECTION, TYPE 2 EACH 18 \$75.00 DRAINAGE AND SEWERS	
D280-0113000F SEDMENT FENCE FOOT 5.200 \$4.25 D280-0114020E INLET PROTECTION, TYPE 2 EACH 18 \$75.00 DRAINAGE AND SEWERS	
0280-0114020E INLET PROTECTION, TYPE 2 EACH 18 \$75.00 DRAINAGE AND SEWERS 0 <td>\$22,100.</td>	\$22,100.
0445 12 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.260 \$100.00 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$125.00 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$126.00 0415 MAINLINE VIDEO INSPECTION FOOT 900 \$180.00 0470-037000E CONCRETE CATCH BASIN. EACH 18 \$200.00 0470-037000E CONCRETE STORM SEWER MANHOLES EACH 10 \$450.00 0470-037000A REATMENT PLANTERS SF 7.542 \$100.00 0470-0300A BRIDGE STRUCTURE SOFT 0 \$865.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$860.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$860.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$800.00 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5.265 \$100.00 0759-012000D CONCRETE CURB & GUTTER	\$1,350.
0445 12 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.260 \$100.00 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$125.00 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$126.00 0415 MAINLINE VIDEO INSPECTION FOOT 900 \$180.00 0470-037000E CONCRETE CATCH BASIN. EACH 18 \$200.00 0470-037000E CONCRETE STORM SEWER MANHOLES EACH 10 \$450.00 0470-037000A REATMENT PLANTERS SF 7.542 \$100.00 0470-0300A BRIDGE STRUCTURE SOFT 0 \$865.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$860.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$860.00 0580-010800A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 -20 ft) SOFT 0 \$800.00 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5.265 \$100.00 0759-012000D CONCRETE CURB & GUTTER	
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0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 900 \$150.00 0415 MAINLINE VIDEO INSPECTION FOOT 3,060 \$4.00 0470-037000E CONCRETE CATCH BASIN. EACH 18 \$220.00 0470-03700E CONCRETE STORM SEWER MANHOLES EACH 10 \$4,500.00 596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$850.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES 0 0 401-01 (2000M AGGREGATE BASE TON 5,265 \$100.00 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,265 \$100.00 0759-0103000F <td< td=""><td>\$126,000.</td></td<>	\$126,000.
0415 MAINLINE VIDEO INSPECTION FOOT 3,060 \$4.00 0415 MAINLINE VIDEO INSPECTION FOOT 3,060 \$4.00 0470-010000E CONCRETE CATCH BASIN. EACH 18 \$2,000.00 0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 10 \$4,500.00 0470-010000A BRIDGE STRUCTURE SF 7,542 \$100.00 STRUCTURES SQFT 0 \$85.00 0 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$86.00 0596-0102000M AGGREGATE BASE TON 9,802 \$32.00 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,265 \$100.00 0759-0123000J CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0123000J CONCRETE WALKS SQFT 31,200 \$6.00 0759-0123000J CONCRETE WALKS SQFT 31,200 \$6.00 0759-0123000J CONCRETE WALKS SQFT 31,200 \$6.00 0759-012300	\$112,500.
0470-0307000E CONCRETE CATCH BASIN. EACH 18 \$2,000.00 0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 10 \$4,500.00 0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 10 \$4,500.00 0470-xxxxxx TREATMENT PLANTERS SF 7,542 \$100.00 STRUCTURES SQFT 0 \$225.00 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$86.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES TON 9,802 \$32.00 WEARING SURFACES TON 9,802 \$32.00 0745-0302000M LEVEL 3, 1/2 INCH ACP TON \$.285 \$100.00 0759-012800J CONCRETE WALKS SQFT 31.200 \$6.00 0759-012800J CONCRETE WALKS SQFT 31.200 \$6.00 0965 STRIPING LS 1 \$25.000.00 0970-102800J CONCRETE WALKS SQFT <	\$135,000.
D470-0101000E CONCRETE STORM SEWER MANHOLES EACH 10 \$4,500.00 0470-xxxxxxx TREATMENT PLANTERS SF 7,542 \$100.00 STRUCTURES SGPT 0 \$225.00 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$865.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$860.00 BASES 0641-0102000M AGGREGATE BASE TON 9,802 \$332.00 WEARING SURFACES 0 CONCRETE CURB & GUTTER FOOT 5,265 \$100.00 0759-0128000J CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE CURB & GUTTER FOOT 5,200 \$16.00 0759-0128000J CONCRETE WALKS SQFT 31.200 \$6.00 0759-0128000J CONCRETE CURB & GUTTER FOOT \$25,000.00 \$665 9665 STRIPING LS 1 \$25,000.00 \$25,000.00 970-XXXXXXXX STREET LIGHTING SYSTEMS 900	\$12,240.
0470-xxxxxx TREATMENT PLANTERS SF 7,542 \$100.00 STRUCTURES	\$36,000.
STRUCTURES STRUCTURES 0596-0108000A BRIDGE STRUCTURE SOFT 0 \$225.00 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$65.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES 0 0 \$80.00 0 \$80.00 0641-0102000M AGGREGATE BASE TON 9.802 \$32.00 WEARING SURFACES 0 \$60.00 0 \$60.00 0759-0103000F CONCRETE CURB & GUTTER FOOT 5.200 \$15.00 0759-0103000F CONCRETE CURB & GUTTER SQFT 31.200 \$60.00 0759-0128000J CONCRETE WALKS SQFT 31.200 \$60.00 0759-0128000J CONCRETE WALKS SQFT 31.200 \$60.00 0790-XXXXXXXXX STREET LS 1 \$25,000.00 0940-XXXXXXX STREET LIGHTING SYSTEM. COMPLETE LS 1 \$350,000.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION<	\$45,000.
0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225.00 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$86.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES 0641-0102000M AGGREGATE BASE TON 9,802 \$32.00 WEARING SURFACES 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,266 \$100.00 0759-0128000J CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 \$25,000.00 \$25,000.00 0940-XXXXXXX STRIPING LS 1 \$25,000.00 \$25,000.00 0970-XXXXXXX STREET LIGHTING SYSTEMS \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 \$25,000.00 <td< td=""><td>\$754,200.</td></td<>	\$754,200.
0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225.00 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$86.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES 0641-0102000M AGGREGATE BASE TON 9,802 \$32.00 WEARING SURFACES 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,266 \$100.00 0759-0103000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 \$25,000.00 \$25,000.00 0865 STRIPING LS 1 \$25,000.00 <td></td>	
0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 0 \$65.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES 0 AGGREGATE BASE TON 9,802 \$32.00 0641-0102000M AGGREGATE BASE TON 9,802 \$32.00 WEARING SURFACES 0 TON 5,265 \$100.00 0759-0128000J CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 \$25,000.00 \$25,000.00 0940-XXXXXXXX PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXXX \$25,000.00 \$25,0	
D596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$80.00 BASES	\$0.
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D641-0102000M AGGREGATE BASE TON 9,802 \$332.00 WEARING SURFACES TON 5,265 \$100.00 0759-013000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-013000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0865 STRIPING LS 1 \$25,000.00 0865 STRIPING LS 1 \$25,000.00 0900-0102000A TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXX STRET LIGHTING SYSTEM, COMPLETE LS 1 \$25,000.00 0970-XXXXXXX STRET LIGHTING SYSTEM, COMPLETE LS 1 \$350,000.00 0970-XXXXXXX STRET LIGHTING SYSTEM, COMPLETE LS 1 \$350,000.00 0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	\$0.
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0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,265 \$100.00 0759-0103000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 0 0 0 0865 STRIPING LS 1 \$25,000.00 0 0940-XXXXXXXX PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0 0 0 0940-XXXXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0 0970-XXXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 0 0990-0102000A TRAFFIC SIGNAL MOD FICATION LS 1 \$350,000.00 0 0900-0102000A TRAFFIC SIGNAL MOD FICATION LS 1 \$350,000.00 0 01030 PLANTER STRIP SF 26,000 \$6.00 1030 0	\$313,664.
0745-0302000M LEVEL 3, 1/2 INCH ACP TON 5,265 \$100.00 0759-0103000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 0 0 0 0865 STRIPING LS 1 \$25,000.00 0 0940-XXXXXXXX PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0 0 0 0940-XXXXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0 0970-XXXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 0 0990-0102000A TRAFFIC SIGNAL MOD FICATION LS 1 \$350,000.00 0 0900-0102000A TRAFFIC SIGNAL MOD FICATION LS 1 \$350,000.00 0 01030 PLANTER STRIP SF 26,000 \$6.00 1030 0	
O759-0103000F CONCRETE CURB & GUTTER FOOT 5,200 \$15.00 0759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 0 0 0 0865 STRIPING LS 1 \$25,000.00 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0 0 0 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXXX STRET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 I I I \$350,000.00 I I 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 I 01030 PLANTER STRIP SF 26,000 \$6.00 I 1030 PLANTER STRIP SF 26,000 \$6.00 I 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 I	
O759-0128000J CONCRETE WALKS SQFT 31,200 \$6.00 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 </td <td>\$526,500.</td>	\$526,500.
PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0865 STRIPING LS 1 \$25,000.00 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL 1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTUBBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% 30% Preliminary Design 11% 11% ROW N 11%	\$78,000.
0865 STRIPING LS 1 \$25,000.00 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL 1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% 30% Preliminary Design 1 11% ROW 0 11%	\$187,200.
D865 STRIPING LS 1 \$25,000.00 PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL 1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% 30% Preliminary Design 1 11% ROW 0 11%	
Description Description Description PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Image: Construction Contingencies (30%) Image: S00 30% Preliminary Design Image: S00 11% 11% ROW Image: S00 11% 11%	
0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL Image: Construction Control in the state in the s	\$25,000.
0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$25,000.00 0970-XXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL Image: Construction Control in the state in the s	
0970-XXXXXXX STREET LIGHTING SYSTEM, COMPLETE EACH 17 \$7,500.00 0990-0102000A TRAFFIC SIGNAL MODIFICATION LS 1 \$350,000.00 RIGHT-OF-WAY DEVELOPMENT AND CONTROL 1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items	
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RIGHT-OF-WAY DEVELOPMENT AND CONTROL 1030 PLANTER STRIP 1030 DISTURBED AREAS STABILIZATION SF 52000 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% Preliminary Design Inspection/CM 11% ROW	\$127,500.
1030 PLANTER STRIP SF 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% 30% Preliminary Design 11% ROW	\$350,000.
1030 PLANTER STRIP \$F 26,000 \$6.00 1030 DISTURBED AREAS STABILIZATION \$F 52000 \$3.00 SUBTOTAL, Construction Items Construction Contingencies (30%) 30% 30% Preliminary Design 11% ROW	
1030 DISTURBED AREAS STABILIZATION SF 52000 \$3.00 SUBTOTAL, Construction Items Image: Construction Contingencies (30%) Image: Const	
SUBTOTAL, Construction Items Solution Solution Construction Contingencies (30%) 30% Preliminary Design 11% Inspection/CM 11% ROW 11%	\$156,000.
Construction Contingencies (30%) 30% Preliminary Design 1 Inspection/CM 11% ROW 1	\$156,000.
Construction Contingencies (30%) 30% Preliminary Design 1 Inspection/CM 11% ROW 1	
Preliminary Design Image: Constraint of the second secon	\$5,193,0
Inspection/CM 11%	\$1,557,900.
ROW CONTRACT	\$675,090.
	\$742,599.
	\$0.
TOTAL CONSTRUCTION COST	\$8,169,00

0225-010000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC COMPLETE (6%) LS 1 2.5.0% 577.8.0% 0220-010000A POLUTION CONTROL (4%) LS 1 4.6.0% 525.0.0% 0220-010000A POLUTION CONTROL (4%) LS 1 55.000.0% 550.000 0245-010000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 510.0% 550.000 580.000 0245-010000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS LS 1 517.000 587.7100 587.7100 587.7100 587.7100 587.7100 587.7100 587.7100 587.700 587.7100		CONCEPT - COST ESTIMATE	E			
Jenne (Foster to Janne) Multiconah rere wates Grading, Drainage, Structures, P. Wing, Signahs, Signing, and Roadsale Dev Learnal Assess results rest wates rest or sets South Structures Nacourt Tork. 00501225100 AND TRAFFIC CONTROL. List All 8.00% \$\$570, 208 0250 1000000A TEMPORARY PROTECTION Not DIRECTION OF TRAFFIC, COMPLETE (%). LS All 8.00% \$\$570, 208 0250 100000A TEMPORARY PROTECTION Not DIRECTION OF TRAFFIC, COMPLETE (%). LS All \$\$000 (00000A \$\$150, 000 (00000A 0250 100000A FEMPORARY WATER MANAGEMENT FACILITY AT STATION LS \$\$150, 000 (0000A \$\$150, 000 0250 100000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS LS \$\$151, 0000 (0000A \$\$150, 000 0350 - 010000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS LS \$\$157, 000 \$\$200 (0000A 0350 - 01000A ELANINA NO ROBER STABLIZATION GVDY 1 \$\$150, 000 \$\$157, 000 0350 - 01000A ELANINA NO ROBER STABLIZATION GVDY 1 \$\$150 (0000 \$\$14, 400 0350 - 01000A	SECTION				COUNTY	
Normality Normality Normality Normality Normality Normality Normality Tree Notacing Dranding		Jenne (Foster to Jenne)	-		N	lultnomah
TEN NUMBER TEN GELCRIPTION UNIT AMOUNT UNIT CORT TOTAL MOBILIZATION AND TRAFFIC CONTROL	KEY NUMBER	KIND OF WORK	LENGTH	DATE		
MOBILIZATION AND TRAFFIC CONTROL LS AB 8.000 02102010000A MOBILIZATION LS AB 8.000 \$\$70.000 02102010000A ENGINARY PROTECTION AND DIRECTION OF TRAFFIC, COMPLETE (\$%) LS 1 2.2507 \$\$170.100 0240010000A EROSION CANTROL (\$%) LS 1 4.007 \$\$225.100 0240010000A EROSION CANTROL (\$%) LS 1 \$\$50.000 \$\$60.000 024001000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 \$\$150.000 \$\$150.000 024001000A CEARING AND CORRED SIND LS 1 \$\$150.000 \$\$150.000 023001000A CEARING AND CORRED STABILIZATION CSYD 1 \$\$150.000 \$\$171.000 0230011000A GENDRENT FENCE FOOTI 10.000 \$\$42.000 \$\$20.000 0230011000A SEDURENT FENCE FOOTI 10.000 \$\$42.000 \$\$2.400 0230011000A SEDURENT FENCE FOOTI 10.000 \$\$42.000 \$\$2.400 02400111000F SEDURENT FENC		Grading, Drainage, Structures , Paving, Signals, Signing, and Roadside Dev		6/22/18		
2210.010000A MOSBILIZATION I.S. AII 8.00% 5970.200 2280.010000A ENCONDOCONTROL (#%) LS 1 2.60% 5172.600 2280.010000A ENCONDOCONTROL (#%) LS 1 4.00% 52825.100 2280.010000A ENCONDOCONTROL PLAN LS 1 55.000.00 55.000 0280.010000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 2 530.000.00 \$60.000 0280.010000A REMOVAL OF STRUCTURES AND ORSTRUCTIONS LS 1 \$150.000 \$51.000 0280.0100000A REMOVAL OF STRUCTURES AND ORSTRUCTIONS LS 1 \$150.000 \$57.000 0280.0100000A REMOVAL OF STRUCTURES AND ORSTRUCTIONS LS 1 \$150.000 \$52.000 \$57.000 0280.010000A RELEMENT FERCE SYZD 4.400 \$52.000 \$57.000 \$52.000 \$57.000 0280.010000A I2 NCH STRUCTURES AND ORSTRUCTIONS LS 1 \$15.000 \$52.000 \$57.000 0280.010000A I2 NCH STORM SEWER PIPE SYZD H.400 \$50.00 \$52.000 \$52.000 \$52.000	ITEM NUMBER	ITEM DESCRIPTION	UNIT	AMOUNT	UNIT COST	TOTAL
0228-010000A TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC, COMPLETE (5%) LS 1 2.5.0% 0228-010000A PROSION CONTROL (4%) LS 1 4.00% \$225.01 0228-010000A POLLITION CONTROL (4%) LS 1 55.000.00 \$50.000 0230-01000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 \$50.000.00 \$50.000 0310-01000A REMOVAL OF STRUCTURES AND DESTRUCTIONS LS 1 \$57.000 \$87.500 0330-01000A CENERAL EXCAVATION CLARING AND GRUBBING LS 1 \$57.500 \$37.500 0330-01000A GENERAL EXCAVATION SQVD 4.400 \$20.00 \$84.500 0330-01000A GENERAL EXCAVATION SQVD 16.000 \$4.25 \$42.500 0280-011000F SEDMENT FROE FOOT 10.000 \$4.22 \$2.000 0280-0114002E INLET PROTECTION, TYPE 2 EACH 32 \$2.000 0280-0114002E INLET PROTECTION, TYPE 2 EACH 32 \$2.000 0280-0114002E	MOBILIZATION AN	ID TRAFFIC CONTROL				
0280-010000A EROSION CONTROL (4%) LS 1 4.00% 9285-010000A 0280-010000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 9500.00 950.000 0280-010000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 950.000 950.000 0280-010000A CLEARING AND GRUEBING LS 1 950.000 957.000 0380-010000A CLEARING AND GRUEBING LS 1 957.000 957.000 0330-010000A SLEDRARDE GEOTEXTILE SQVD 4.40.00 92.20.00 951.40.00 0380-01020A SLEDRARDE RESPECTION FOOT 1.000 \$42.25.00 957.00 0280-0114002E ILET PROTECTION, TYPE 2 EACH 92 92.000.00 \$12.000 0	0210-0100000A	MOBILIZATION	LS	All	8.00%	\$570,208.00
2209-010000A POLLITION CONTROLPLAN LS 1 \$5,000 \$5,000 2245-0100000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 2 \$30,000.00 \$50,000 2245-0100000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION LS 1 \$150,000.00 \$150,000 2010-01000A REMOVAL OF STRUCTURES AND OBSTRUCTIONS LS 1 \$150,000.00 \$150,000 2030-010500A CLEARING AND GRUBBING LS 1 \$150,000.00 \$150,000 2030-010500A GENEPAL EXCAVATION CUVD 8,500 \$217,000 \$4,200 \$171,000 2030-0110500A GENEPAL EXCAVATION SUPGADE CONTROL POOT 10,000 \$4,25 \$42,500 2030-0110500F SEDIMENT FENCE FOOT 10,000 \$4,25 \$42,500 2030-011020F SEDIMENT FENCE FOOT 1,000 \$42,250 \$22,000 2030-011020F NELT PROTECTION, TYPE 2 EACH 2 \$100,000 \$22,000 2045 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,6	0225-0100000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC, COMPLETE (5%)	LS	1	2.50%	\$178,190.00
0245 0100000A TEMPORARY WATER MANAGEMENT FACILITY AT STATION IS 2 \$30,000.00 \$80,000 ROADWORK	0280-0100000A	EROSION CONTROL (4%)	LS	1	4.00%	\$285,104.00
RADBURGE Image Image <thimage< th=""> <</thimage<>	0290-0100000A	POLLUTION CONTROL PLAN	LS	1	\$5,000.00	\$5,000.00
0310-010000A IEMOVAL OF STRUCTURES AND OBSTRUCTIONS I.S. 1 \$150,000.00 \$150,000.00 0320-010000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$87,500 0320-01000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$87,500 0320-01000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$86,000 0331-01050DK GENEGRAL EXCAVATION SQTPD 4,400 \$80,800 \$814,000 0330-01050DK SUBGRADE GOTEXTILE SQTPD 16,000 \$4,25 \$42,500 0280-011300DF SEDIENT FENCE FOOT 100,000 \$42,25 \$42,500 0280-011300DF SEDIENT FENCE FOOT 1,000 \$12,200 \$220,000 0280-011300DF SEDIENT STORM SEWER PIPE, 5 FT DEPTH FOOT 1,500 \$150,00 \$220,000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,500 \$150,00 \$220,000 0470-0307000E CONCRETE CATCH ABAIN EACH \$2 \$20,000.00 \$84,000 <	0245-0100000A	TEMPORARY WATER MANAGEMENT FACILITY AT STATION	LS	2	\$30,000.00	\$60,000.00
0310-010000A IEMOVAL OF STRUCTURES AND OBSTRUCTIONS I.S. 1 \$150,000.00 \$150,000.00 0320-010000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$87,500 0320-01000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$87,500 0320-01000A CLEARING AND GRUBBING I.S. 1 \$87,500.00 \$86,000 0331-01050DK GENEGRAL EXCAVATION SQTPD 4,400 \$80,800 \$814,000 0330-01050DK SUBGRADE GOTEXTILE SQTPD 16,000 \$4,25 \$42,500 0280-011300DF SEDIENT FENCE FOOT 100,000 \$42,25 \$42,500 0280-011300DF SEDIENT FENCE FOOT 1,000 \$12,200 \$220,000 0280-011300DF SEDIENT STORM SEWER PIPE, 5 FT DEPTH FOOT 1,500 \$150,00 \$220,000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,500 \$150,00 \$220,000 0470-0307000E CONCRETE CATCH ABAIN EACH \$2 \$20,000.00 \$84,000 <						
0320-010000A CLEARING AND GRUBBING LS 1 \$87.500.00 \$87.500.00 0330-010000A CEVERAL EXCAVATION CUTV 8.500 \$80.00 0330-010000A SUBGRADE GEOTEXTILE SQVD 16.000 \$80.90 0330-010000A SUBGRADE GEOTEXTILE SQVD 16.000 \$80.90 0330-01000A SUBGRADE GEOTEXTILE FOOT 10.000 \$4.25 0300-0100A SEDIMENT FENCE FOOT 10.000 \$4.25 \$4.2500 0280-01100AF IRLET PROTECTION, TYPE 2 FOOT 10.000 \$4.25 \$4.2500 0280-011402BE IRLET PROTECTION, TYPE 2 FOOT 10.000 \$4.25 \$2.20.000 0280-011402BE IRLET PROTECTION, TYPE 2 FOOT 10.000 \$12.800 \$220.000 0280-011402BE IRLET AND STORM SEWER PIPE, 5 FT DEPTH FOOT 1.000 \$12.600 \$220.000 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.000 \$12.600 \$220.000 0470-010100E CONCRETE CORCH BASIN EACH 18	ROADWORK					
0330-016900K GENERAL EXCAVATION CLYD 9.50 \$20.00 \$1711.000 0330-0105000J SUBGRADE GENERALEZION SQYD 4.400 \$20.00 \$80.90 0330-0105000J SUBGRADE GEOTEXTILE SQYD 16,000 \$0.90 \$14.400 EROSION CONTROL Control \$200.01 \$20.00 \$14.400 2080-0113000F SEDIMENT FENCE FOOT 10.000 \$4.25 \$42.500 0280-0113000F SEDIMENT FENCE FOOT 10.000 \$4.20 \$220.000 0280-0113000F INLET PROTECTION, TYPE 2 EACH \$20.20 \$220.000 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,000 \$125.00 \$220.000 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,000 \$128.00 \$212.000 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 5.000 \$220.000 \$44.000 \$21.340.000 0470-0101000E CONCRETE CATCH BASIN EACH 16 \$4.500.00 \$21.340.000 \$1.340.000 \$22.500	0310-0106000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS		1	\$150,000.00	\$150,000.00
0331-0160000J 12 INCH SUBGRADE STABILIZATION SQYD 14,400 \$20,00 \$89,000 0350-0105000J SUBGRADE GEOTEXTILE SQYD 16,000 \$0.90 \$14,400 EROSION CONTROL	0320-0100000A	CLEARING AND GRUBBING		1	\$87,500.00	\$87,500.00
0350-0105000.J SUBGRADE GEOTEXTILE SQYD 16,000 \$0.90 \$14,400 EROSION CONTROL	0330-0105000K	GENERAL EXCAVATION	CUYD	8,550	\$20.00	\$171,000.00
Design Control Design Control EROSION CONTROL EROSION CONTROL EROSION CONTROL EROSION CONTROL 0280-0113000F SEDIMENT FENCE FOOT 10,000 \$425 \$42,500 0280-0114020E INLET PROTECTION, TYPE 2 EACH 32 \$75.00 \$220,000 0280-0114020E INLET PROTECTION, TYPE 2 EACH 32 \$75.00 \$220,000 0445 15 INCH STORM SEWER PIPE, 5FT DEPTH FOOT 1,600 \$125.00 \$220,000 0445 16 INCH STORM SEWER PIPE, 5FT DEPTH FOOT 1,600 \$125.00 \$240,000 0445 16 INCH STORM SEWER PIPE, 5FT DEPTH FOOT 1,600 \$125.00 \$240,000 0470-302700E CONCRETE CATCH BASIN EACH 16 \$4,500.00 \$72,000 0470-302700E CONCRETE STORM SEWER PIPE, SFT DEPTH FOOT 1,600 \$11,49,600 0470-302700E CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$11,49,600 9580-0108000A RRIZARINING WALL, CONVENTIONAL SEGMENTAL (6 - 0 ft) SOFT <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$88,000.00</td>						\$88,000.00
0280-0113000F SEDIMENT FENCE FOOT 10.000 \$4.25 \$42,500 0280-0114020E INLET PROTECTION, TYPE 2 EACH 32 \$75.00 \$2,400 DRAINAGE AND SEWERS	0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	16,000	\$0.90	\$14,400.00
0280-0113000F SEDIMENT FENCE FOOT 10.000 \$4.25 \$42,500 0280-0114020E INLET PROTECTION, TYPE 2 EACH 32 \$75.00 \$2,400 DRAINAGE AND SEWERS						
D280-0114020E INLET PROTECTION, TYPE 2 EACH 32 \$75.00 \$2,400 DRAINAGE AND SEWERS DRAINAGE AND SEWERS \$100.00 \$100.00 \$220.000 0445 12 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$125.00 \$220.000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$150.00 \$240.000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$150.00 \$240.000 0445 18 INCH STORM SEWER NEWER NEWER NANHOLES EACH 32 \$200.000 \$84.000 0470-0307000E CONCRETE STORM SEWER MANHOLES EACH 16 \$41.500.00 \$87.2000 0470-300200A RETAINING WALL, TOP MSE (6 - 15 ft) SQFT 0 \$225.00 \$30 0589-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 0 \$225.00 \$30 0641-0102000M AGGREGATE BASE TON 15.00 \$41.320.000 \$41.320.000 0645-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 16,500						
DRAINAGE AND SEWERS FOOT LOO Status 0445 12 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$125.00 \$220.000 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$126.00 \$220.000 0445 16 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,600 \$150.00 \$240.000 0470 MAINLINE VIDEO INSPECTION FOOT 5,400 \$4.00 \$21.000 0470-307000E CONCRETE STORM SEWER MANHOLES EACH 16 \$44.500.00 \$72.000 0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 16 \$44.500.00 \$72.000 0470-0307000A BRIDGE STRUCTURE SOFT 0 \$225.00 \$80 0589-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SOFT 3,500 \$81.320,000 0589-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 3,500 \$81.320,000 0589-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 9,500 \$1.320,000 0641-0102000M AGGR			_	.,		\$42,500.00
0445 12 LINCH STORM SEWER PIPE, 5 FT DEPTH FOOT 2.200 \$100.00 \$220,000 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.600 \$125.00 \$220,000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.600 \$125.00 \$220,000 0445 MAINLINE VIDEO INSPECTION FOOT 5.400 \$4.00 \$221,000 0470-307000C CONCRETE CATCH BASIN EACH 16 \$4,500.00 \$72,000 0470-0101000E CONCRETE CATCH BASIN EACH 16 \$4,500.00 \$1,149,600 0470-5007000A BRIDGE STRUCTURE SPF 11,496 \$100.00 \$1,149,600 STRUCTURES SOFT 0 \$225.00 \$8 \$225,000 \$8 0569-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 0 \$225.00 \$8 0564-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 16.500 \$80.00 \$1,320.00 BASES TON 15.050 \$320.00 \$150.00 \$160.00	0280-0114020E	INLET PROTECTION, TYPE 2	EACH	32	\$75.00	\$2,400.00
0445 12 LINCH STORM SEWER PIPE, 5 FT DEPTH FOOT 2.200 \$100.00 \$220,000 0445 15 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.600 \$125.00 \$220,000 0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1.600 \$125.00 \$220,000 0445 MAINLINE VIDEO INSPECTION FOOT 5.400 \$4.00 \$221,000 0470-307000C CONCRETE CATCH BASIN EACH 16 \$4,500.00 \$72,000 0470-0101000E CONCRETE CATCH BASIN EACH 16 \$4,500.00 \$1,149,600 0470-5007000A BRIDGE STRUCTURE SPF 11,496 \$100.00 \$1,149,600 STRUCTURES SOFT 0 \$225.00 \$8 \$225,000 \$8 0569-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 0 \$225.00 \$8 0564-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SOFT 16.500 \$80.00 \$1,320.00 BASES TON 15.050 \$320.00 \$150.00 \$160.00						
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0445 18 INCH STORM SEWER PIPE, 5 FT DEPTH FOOT 1,000 \$150,00 \$240,000 0415 MAINLINE VIDEO INSPECTION FAOT 5,400 \$41,00 \$21,600 \$240,000 0470-0307006 CONCRETE CATCH BASIN. EACH 132 \$2000.00 \$864,000 0470-0370020 CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$72,000 0470-0370020 TREATMENT PLANTERS SF 11,496 \$100.00 \$11,496,000 STRUCTURES SGPT 0 \$225,00 \$225,00 \$225,00 \$225,00 \$227,500 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 3,500 \$65,00 \$227,500 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 15,050 \$13,20,000 BASES 0 SQFT 15,050 \$32,00 \$481,600 \$425,000 \$255,000 \$226,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600 \$441,600						
0415 MAINLINE VIDEO INSPECTION FOOT 5,400 \$41.00 \$21,600 0470-0307000E CONCRETE CATCH BASIN. EACH 32 \$2,000.00 \$64.00 0470-0307000E CONCRETE STORM SEWER MANHOLES EACH 32 \$2,000.00 \$72.000 0470-010100E CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$72.000 0470-03000A RETAINING VALL, YPE MSE (6-15 ft) SQFT 0 \$225.00 \$80.00 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6-20 ft) SQFT 16,500 \$80.00 \$1,320.00 0641-0102000M AGGREGATE BASE TON 15,050 \$32.00 \$481,600 0759-0123000D EVEL 3, 1/2 INCH ACP TON \$0,667 \$100.00 \$806,737 0759-0123000D CONCRETE WALKS SQFT 47,600 \$60.00 \$142,600 0759-0123000F CONCRETE WALKS SQFT 47,600 \$60.00 \$260,000 0759-0123000F CONCRETE WALKS SQFT 47,600 \$60.00 \$806,000 <t< td=""><td></td><td>,</td><td></td><td></td><td></td><td></td></t<>		,				
0470-0307000E CONCRETE CATCH BASIN. EACH 32 \$2,000.0 \$64.000 0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$72,000 0470-01000E CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$72,000 0470-0007 TREATMENT PLANTERS \$F 11,496 \$100.00 \$1,149,600 0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225,00 \$30 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 16,500 \$481,600 0641-0102000M REGREGATE BASE TON 15,050 \$322,00 \$481,600 0745-032000M LEVEL 3, 1/2 INCH ACP TON 15,060 \$142,500 0745-032000M LEVEL 3, 1/2 INCH ACP TON 8,067 \$100,000 \$860,737 0745-032000M LEVEL 3, 1/2 INCH ACP TON 15,060 \$142,500 0759-0128000J CONCRETE WALKS SQFT 47,600 \$86,00 \$225,000 0759-0128000J CONCRETE WALKS						
0470-0101000E CONCRETE STORM SEWER MANHOLES EACH 16 \$4,500.00 \$72,000 0470-xxxxxx TREATMENT PLANTERS SF 11,496 \$100.00 \$11,496,000 STRUCTURES 0 \$225.00 \$000 \$11,496,000 STRUCTURE SQFT 0 \$225.00 \$000 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) \$QFT 3.500 \$80.00 \$1,320.000 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) \$QFT 3.500 \$80.00 \$1,320.000 BASES 0 \$481.600 \$80.00 \$1,320.000 \$481.600 0641-0102000M AGGREGATE BASE TON 15,050 \$32.00 \$481.600 0745-0302000M LEVEL 3, 1/2 INCH ACP TON \$0.067 \$100.00 \$880.073 0745-0302000M LEVEL 3, 1/2 INCH ACP TON \$0.067 \$100.00 \$880.6737 0759-012800.01 CONCRETE CURB & GUTTER FOOT 9.500 \$142,500 \$142,500 0759-012800.01 CONCRETE WALKS						
0470-xxxxxxx SF 11,496 \$100.00 \$1,149,600 STRUCTURES 0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225.00 \$20 0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225.00 \$227.500 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 3.500 \$65.00 \$227.500 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 3.500 \$132.000 BASES 0641-0102000M AGGREGATE BASE TON 15.050 \$32.00 \$481,600 VIEXARING SURFACES 0745-0302000M LEVEL 3, 1/2 INCH ACP TON 8.067 \$100.00 \$806,737 0759-013000J CONCRETE CURB & GUTTER FOOT 9.500 \$142.500 \$285,600 0759-0132000J CONCRETE CURB & GUTTER LS 1 \$55,000 \$285,000 \$285,000 0865 STRIPING LS 1 \$60,000 \$						
STRUCTURES SOFT 0 S225.00 S0 0596-0108000A BRIDGE STRUCTURE SOFT 0 \$225.00 \$0 0596-0108000A RETAINING WALL, TYPE MSE (6 - 15 ft) SQFT 3,500 \$66.00 \$227,500 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 16,500 \$80.00 \$1,320.000 DSAES 0641-0102000M AGGREGATE BASE TON 15,050 \$32.00 \$481,600 WEARING SURFACES 0 0 0 \$600 \$100.00 \$800.737 0759-012000J CONCRETE CURB & GUTTER FOOT 9,500 \$15.00 \$142,500 0759-012000J CONCRETE WALKS SOFT 47,600 \$60.00 \$285,000 PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES 0 0 2 0 2 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$55,000.00 \$60,000 \$60,000 \$60,000 \$60,000 \$60,000 \$60,000 \$60,000 \$60,000 \$240,000 \$60,000					. ,	
0596-0108000A BRIDGE STRUCTURE SQFT 0 \$225.00 \$0 0596-0108000A RETAINING WALL, TVPE MSE (6 - 15 ft) SQFT 3,500 \$66.00 \$227,500 0596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 16,500 \$80.00 \$1,320,000 BASES				11,400	φ100.00	ψ1,140,000.00
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D6596-0108000A RETAINING WALL, CONVENTIONAL SEGMENTAL (6 - 20 ft) SQFT 16,500 \$80.00 \$1,320,000 BASES U U U U U U 0641-0102000M AGGREGATE BASE TON 15,050 \$32.00 \$481,600 WEARING SURFACES TON 8,067 \$100.00 \$806,737 0759-0130000D CONCRETE CURB & GUTTER FOOT 9,500 \$15.00 \$142,500 0759-0130000J CONCRETE WALKS SQFT 47,600 \$6.00 \$285,600 0759-0130000J CONCRETE WALKS SQFT 47,600 \$50,000 \$55,000 0865 STRIPING LS 1 \$55,000.00 \$55,000 \$55,000 0940-XXXXXXX PERMANENT SIGNS, COMPLETE LS 1 \$60,000 \$60,000 \$60,000 \$60,000 \$240,000 \$90,000 \$350,000.00 \$240,000 \$90,000.00 \$240,000 \$90,000.00 \$350,000.00 \$350,000.00 \$350,000.00 \$350,000.00 \$350,000.00 \$350,000.00 \$350,000.00 <t< td=""><td></td><td></td><td>_</td><td>-</td><td></td><td>\$227,500.00</td></t<>			_	-		\$227,500.00
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	TOTAL CONSTRU	CTION COST				\$12,837,000