

RVMPO/MRMPO SCOPING ESTIMATE

(updated June 2016)

PROJECT NAME				Stevens Street Improvement Project - Crater Lake Ave to Wabash		COUNTY		Jackson	
KIND OF WORK				Constructing Bike Lanes and Sidewalks		LENGTH	DATE	ESTIMATE PREPARER	
				1800 feet	9/25/19	Karl MacNair, PE			
BID ITEM #	ITEM TITLE			UNIT	QTY	UNIT COST	EXTENDED COST		
TEMPORARY FEATURES AND APPURTENANCES									
0210-010000A	MOBILIZATION			LS	x	10.00%	\$107,408		
0225-010000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC			LS	x	8.00%	\$85,926		
0280-010000A	EROSION CONTROL			LS	x	2.00%	\$21,482		
ROADWORK									
0305-010000A	CONSTRUCTION SURVEY WORK			LS	x	1.00%	\$10,328		
0310-010000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS			LS	x	3.00%	\$30,983		
0310-0101000F	REMOVAL OF CURBS			FOOT	150	\$ 3.00	\$450		
0310-0113000A	REMOVAL OF GUARDRAIL			FOOT	0	\$ 3.00	\$0		
0310-0100000F	REMOVAL OF PIPES			FOOT	0	\$ 16.00	\$0		
0310-0103000J	REMOVAL OF SURFACINGS			SQYD	1123	\$ 5.00	\$5,613		
0310-0102000J	REMOVAL OF WALKS AND DRIVEWAYS			SQYD	0	\$ 8.00	\$0		
0320-0100000R	CLEARING AND GRUBBING			ACRE	1.00	\$ 4,500.00	\$4,499		
0330-0105000K	GENERAL EXCAVATION			CUYD	3467	\$ 15.00	\$52,000		
0330-0123000K	EMBANKMENT IN PLACE			CUYD	0	\$ 15.00	\$0		
0331-0106000J	12 INCH SUBGRADE STABILIZATION			SQYD	1300	\$ 15.00	\$19,500		
0331-0112000J	24 INCH SUBGRADE STABILIZATION			SQYD	0	\$ 20.00	\$0		
0340-0100000Q	WATERING			MGAL	0	\$ 25.00	\$0		
0350-0105000J	SUBGRADE GEOTEXTILE			SQYD	5200	\$ 2.00	\$10,400		
0390-0105000K	LOOSE RIPRAP, CLASS 50			CUYD	0	\$ 56.00	\$0		
0390-0108000K	LOOSE RIPRAP, CLASS 100			CUYD	0	\$ 60.00	\$0		
DRAINAGE AND SEWERS									
0445-010018AF	18 INCH CULVERT PIPE, 5 FT DEPTH			FOOT	0	\$ 68.00	\$0		
0445-010024AF	24 INCH CULV PIPE, 5 FT DEPTH			FOOT	0	\$ 75.00	\$0		
0445-010036AF	36 INCH CULV PIPE, 5 FT DEPTH			FOOT	0	\$ 101.00	\$0		
0445-010048AF	48 INCH CULV PIPE, 5 FT DEPTH			FOOT	0	\$ 142.00	\$0		
0445-035012AF	12 INCH STORM SEWER PIPE, 5 FT DEPTH			FOOT	900	\$ 70.00	\$63,000		
0445-035015AF	15 INCH STORM SEW PIPE, 5 FT			FOOT	500	\$ 85.00	\$42,500		
0445-035018AF	18 INCH STORM SEWER PIPE, 5 FT DEPTH			FOOT	0	\$ 95.00	\$0		
0445-035024BF	24 INCH STORM SEWER PIPE, 10 FT DEPTH			FOOT	0	\$ 95.00	\$0		
0445-035036BF	36 INCH STORM SEWER PIPE, 10 FT DEPTH			FOOT	0	\$ 119.00	\$0		
0445-035048BF	48 INCH STORM SEWER PIPE, 10 FT DEPTH			FOOT	0	\$ 220.00	\$0		
0470-0101000E	CONCRETE STORM SEWER MANHOLES			EACH	7	\$ 5,000.00	\$35,000		
0470-0307000E	CONCRETE INLETS, TYPE CG-2			EACH	13	\$ 1,800.00	\$23,400		
0480-0100000F	DRAINAGE CURBS			FOOT	0	\$ 10.00	\$0		
0490-0100000E	ADJUSTING BOXES			EACH	0	\$ 290.00	\$0		
0490-0105000E	ADJUSTING INLETS			EACH	10	\$ 715.00	\$7,150		
0490-0121000E	MAJOR ADJUSTMENT OF MANHOLES			EACH	2	\$ 1,500.00	\$3,000		
	Storm Water Quality and detention			LS	1	\$ 15,000.00	\$15,000		
BRIDGES/STRUCTURES									
	BRIDGES			LS	0		\$0		
	TEMP BRIDGE			LS	0		\$0		
	BRIDGE REMOVAL			LS	0		\$0		
	RETAINING WALL			LIN FT	636	\$200.00	\$127,200		
BASES									
0620-0104000J	COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCH DEEP			SQYD	0	\$ 3.00	\$0		
0620-0120000J	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP			SQYD	0	\$ 1.00	\$0		
0640-0100000M	AGGREGATE BASE			TON	4783	\$ 27.00	\$129,142		
0640-0101000M	AGGREGATE SHOULDERS			TON	0	\$ 20.00	\$0		
WEARING SURFACES									
0730-0100000M	ASPHALT IN TACK COAT			TON	0	\$ 425.00	\$0		
0744-0202000M	LEVEL 2, 1/2 INCH DENSE MHMAC			TON	0	\$ 90.00	\$0		
0744-0302000M	LEVEL 3, 1/2 INCH DENSE MHMAC			TON	635	\$ 110.00	\$69,861		
0746-0100000F	CRACK SEALING			FOOT	0	\$ 5.00	\$0		
0749-0100000E	EXTRA FOR ASPHALT APPROACHES			EACH	33	\$ 575.00	\$18,975		

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BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST				
0755-010000J	REINFORCED CONCRETE PAVEMENT	SQYD	0	\$ 125.00	\$0				
0759-0127000J	REINFORCED CONCRETE DRIVEWAYS	SQFT	6468	\$ 9.00	\$58,212				
0759-010000F	CONCRETE CURBS	FOOT	0	\$ 17.00	\$0				
0759-0103000F	CURB AND GUTTER CONCRETE CURBS	FOOT	3350	\$ 19.00	\$63,650				
0759-0128000J	CONCRETE WALKS	SQFT	23450	\$ 5.00	\$117,250				
0759-0126000J	CONCRETE DRIVEWAYS	SQFT	0	\$ 7.00	\$0				
	Extra for ADA Ramps	EACH	24	\$ 3,000.00	\$72,000				
PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES									
0810-0104000F	GUARDRAIL, TYPE 2A	FOOT	0	\$ 19.00	\$0				
0810-0107000F	GUARDRAIL, TYPE 3	FOOT	0	\$ 50.00	\$0				
0810-0109000F	GUARDRAIL, TYPE 4	FOOT	0	\$ 50.00	\$0				
0810-0119000E	GUARDRAIL ANCHORS, TYPE 1	EACH	0	\$ 780.00	\$0				
0810-0122000E	GUARDRAIL END PIECES, TYPE B	EACH	0	\$ 700.00	\$0				
0810-0126000E	GUARDRAIL TRANSITION	EACH	0	\$ 2,300.00	\$0				
0810-0129000E	GUARDRAIL TERMINALS, NON-FLARED	EACH	0	\$ 2,150.00	\$0				
0810-0130000E	GUARDRAIL TERMINALS, FLARED	EACH	0	\$ 2,100.00	\$0				
0812-0101000F	ADJUSTING GUARDRAIL	FOOT	0	\$ 3.50	\$0				
0820-0100000F	CONCRETE BARRIER	FOOT	0	\$ 61.00	\$0				
0820-0127000F	CONCRETE BARRIER, TALL	FOOT	0	\$ 85.00	\$0				
0840-0102000E	DELINEATORS, TYPE 2	EACH	0	\$ 38.00	\$0				
0840-0106000E	MILEPOST MARKER POSTS	EACH	0	\$ 100.00	\$0				
0867-0103000E	PAVEMENT LEGEND, TYPE B: ARROWS	EACH	1	\$ 400.00	\$400				
0867-0111000E	PAVEMENT LEGEND, TYPE B: "SCHOOL"	EACH	0	\$ 495.00	\$0				
0867-0119000E	PAVEMENT LEGEND, TYPE B: RAILROAD CROSSING MARKINGS	EACH	0	\$ 975.00	\$0				
0867-0131000E	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE SYMBOLS	EACH	10	\$ 300.00	\$3,000				
0867-0145000J	PAVEMENT BAR, TYPE B	SQFT	100	\$ 10.00	\$1,000				
0867-0173000E	PAVEMENT LEGEND, TYPE B: DISABLED PARKING	EACH	0	\$ 287.00	\$0				
0855-0102000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS	EACH	75	\$ 10.00	\$750				
0855-0103000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS, RECESSED	EACH	0	\$ 6.00	\$0				
0860-0200000F	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT	0	\$ 0.15	\$0				
0865-0116600F	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED	FOOT	7875	\$ 1.50	\$11,813				
0857-0101000L	CONTINUOUS RUMBLE STRIPS	MILE	0	\$ 900.00	\$0				
PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS									
	PERMANENT SIGNS	LS	1	\$ 10,000.00	\$10,000				
	INTERPRETIVE PANELS AND DECORATIVE HARDSCAPE FEATURES	LS	0		\$0				
0990-0103000A	DETECTOR INSTALLATION, Crater Lake Ave & Stevens	EACH	3	\$ 3,000.00	\$9,000				
0990-0101000A	TRAFFIC SIGNAL INSTALLATION, _____	EACH	0	\$ 178,000.00	\$0				
0990-0105000A	INTERCONNECT SYSTEM	LS	0	\$ 30,000.00	\$0				
	STREET LIGHTS SINGLE - INCLUDING CONECTIONS, WIRING, CONDUIT	EACH	8	\$ 3,500.00	\$28,000				
	STREET LIGHTS MULTIPLE - INCLUDING CONECTIONS, WIRING, CONDUIT	EACH	0		\$0				
	ILLUMINATION		0		\$0				
RIGHT-OF-WAY DEVELOPMENT AND CONTROL									
1030-0109000R	PERMANENT SEEDING, MIX NO. 1	ACRE	0.25	\$ 20,000.00	\$5,000				
1050-0135000F	_____ CHAIN LINK FENCE	LIN FT	0	\$ 18.00	\$0				
1070-0100000E	SINGLE MAILBOX SUPPORTS	EACH	7	\$ 500.00	\$3,500				
1070-0101000E	MULTIPLE MAILBOX SUPPORTS	EACH	5	\$ 500.00	\$2,500				
	ENVIRONMENTAL MITIGATION SITES	LS	0		\$0				
	LANDSCAPING	LS	1	\$ 20,000.00	\$20,000				
UNUSUAL ELEMENTS									
1095-0104000E	LITTER RECEPTACLES	EACH	0	\$1,600.00	\$0				
1095-0100000E	BENCHES, TYPE _____	EACH	0	\$1,700.00	\$0				
1040-0200000E	TREE GRATES	EACH	0	\$1,300.00	\$0				
1095-0101000E	BIKE RACKS	EACH	0	\$600.00	\$0				
0759-0161000F	METAL HANDRAIL, 2 RAILS	LIN FT	0	\$72.00	\$0				

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BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST
					\$0
CONSTRUCTION SUBTOTAL					\$1,288,890

PROJECT PHASES/SUMMARY OF COSTS					
ROW					
	LAND, IMPROVEMENTS, DAMAGES	LS	1	\$ 111,000.00	\$ 111,000.00
	ROW PROCESS (APPR, REV APPR, ACQ, ODOT REV, etc.)	File	36	\$ 10,000.00	\$ 360,000.00
	ROW SUBTOTAL				\$ 471,000.00
UTILITY RELOCATION					
	8" Water Main - Crankshaft	EA	2	\$ 20,000.00	\$ 40,000.00
	Water Laterals	EA	18	\$ 2,000.00	\$ 36,000.00
	UTILITY RELOCATION SUBTOTAL				\$ 76,000.00
PRELIMINARY ENGINEERING					
	PE - ODOT OVERSIGHT	LS	1	\$ 30,000.00	\$ 30,000.00
	*PE - ENVIRONMENTAL	LS	1	\$ 20,000.00	\$ 20,000.00
	PE - SURVEYING	LS	1	\$ 20,000.00	\$ 20,000.00
	PE - GEO-TECH	LS	1	\$ 20,000.00	\$ 20,000.00
	**PE - DESIGN & PROJECT MANAGEMENT	LS	15%	of CON cost	\$ 193,333.53
	PRELIMINARY ENGINEERING SUBTOTAL				\$ 283,333.53
CONSTRUCTION					
	TOTAL BID ITEM COST (from estimate above)				\$1,288,890
	CE- ODOT OVERSIGHT	LS	1	\$ 20,000.00	\$ 20,000.00
	***CONSTRUCTION ENGINEERING ADMIN & INSPECTION	LS	17%	of CON cost	\$ 219,111.34
	CONSTRUCTION CONTINGENCY	LS	30%	of CON cost	\$ 386,667.06
	CONSTRUCTION SUBTOTAL				\$ 1,914,668.61
TOTAL PROJECT COST					\$ 2,745,002.15

- * Environmental costs should account for the typical clearances needed for each environmental area (historic-archaeological & built, hazmat, biology, wetland, noise, etc.), any necessary permits and land use requirements. Contact ODOT LAL for assistance, if needed.
- ** Typical percentages for federally funded LPA projects range from 15% to 25%. Projects with lower construction costs (under \$1M) typically have higher design percentages.
- *** Typical percentages for federally funded LPA projects range from 17% to 25%. Projects with lower construction costs (under \$1M) typically have higher CE percentages.