

# RVMPO/MRMPO SCOPING ESTIMATE

(updated June 2016)

PROJECT NAME		Crews Road Paving			COUNTY		Jackson	
KIND OF WORK		Paving			Length	DATE	ESTIMATE PREPARER	
					400 ft.	9/17/19	James Philp	
BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST			
<b>TEMPORARY FEATURES AND APPURTENANCES</b>								
0210-0100000A	MOBILIZATION	LS	x	10.00%	\$21,375			
0225-0100000A	TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC	LS	x	2.00%	\$4,275			
0280-0100000A	EROSION CONTROL	LS	x	2.00%	\$4,275			
<b>ROADWORK</b>								
0305-0100000A	CONSTRUCTION SURVEY WORK	LS	x	3.00%	\$6,107			
0310-0100000A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	x	2.00%	\$4,072			
0310-0101000F	REMOVAL OF CURBS	FOOT		\$ 3.00	\$0			
0310-0113000A	REMOVAL OF GUARDRAIL	FOOT		\$ 3.00	\$0			
0310-0100000F	REMOVAL OF PIPES	FOOT		\$ 16.00	\$0			
0310-0103000J	REMOVAL OF SURFACINGS	SQYD		\$ 5.00	\$0			
0310-0102000J	REMOVAL OF WALKS AND DRIVEWAYS	SQYD		\$ 8.00	\$0			
0320-0100000R	CLEARING AND GRUBBING	ACRE	0.4	\$ 5,000.00	\$2,000			
0330-0105000K	GENERAL EXCAVATION	CUYD	550	\$ 20.00	\$11,000			
0330-0123000K	EMBANKMENT IN PLACE	CUYD		\$ 15.00	\$0			
0331-0106000J	18 INCH SUBGRADE STABILIZATION	SQYD	110	\$ 28.00	\$3,080			
0331-0112000J	24 INCH SUBGRADE STABILIZATION	SQYD		\$ 20.00	\$0			
0340-0100000Q	WATERING	MGAL	100	\$ 25.00	\$2,500			
0350-0105000J	SUBGRADE GEOTEXTILE	SQYD	1100	\$ 1.00	\$1,100			
0390-0105000K	LOOSE RIPRAP, CLASS 50	CUYD		\$ 56.00	\$0			
0390-0108000K	LOOSE RIPRAP, CLASS 100	CUYD		\$ 60.00	\$0			
<b>DRAINAGE AND SEWERS</b>								
0445-010018AF	18 INCH CULVERT PIPE, 5 FT DEPTH	FOOT		\$ 68.00	\$0			
0445-010024AF	24 INCH CULV PIPE, 5 FT DEPTH	FOOT		\$ 75.00	\$0			
0445-010036AF	36 INCH CULV PIPE, 5 FT DEPTH	FOOT		\$ 101.00	\$0			
0445-010048AF	48 INCH CULV PIPE, 5 FT DEPTH	FOOT		\$ 142.00	\$0			
0445-035012AF	12 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT	300	\$ 75.00	\$22,500			
0445-035015AF	15 INCH STORM SEW PIPE, 5 FT	FOOT		\$ 56.00	\$0			
0445-035018AF	18 INCH STORM SEWER PIPE, 5 FT DEPTH	FOOT		\$ 65.00	\$0			
0445-035024BF	24 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT		\$ 95.00	\$0			
0445-035036BF	36 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT		\$ 119.00	\$0			
0445-035048BF	48 INCH STORM SEWER PIPE, 10 FT DEPTH	FOOT		\$ 220.00	\$0			
0470-0101000E	CONCRETE STORM SEWER MANHOLES	EACH	1	\$ 4,000.00	\$4,000			
0470-0307000E	CONCRETE INLETS, TYPE CG-2	EACH		\$ 1,800.00	\$0			
0480-0100000F	DRAINAGE CURBS	FOOT		\$ 10.00	\$0			
0490-0100000E	ADJUSTING BOXES	EACH		\$ 290.00	\$0			
0490-0105000E	ADJUSTING INLETS	EACH		\$ 715.00	\$0			
0490-0121000E	MAJOR ADJUSTMENT OF MANHOLES	EACH		\$ 1,500.00	\$0			
<b>BRIDGES/STRUCTURES</b>								
	BRIDGES	LS			\$0			
	TEMP BRIDGE	LS			\$0			
	BRIDGE REMOVAL	LS			\$0			
	RETAINING WALL	SQFT	800	\$30.00	\$24,000			
<b>BASES</b>								
0620-0104000J	COLD PLANE PAVEMENT REMOVAL, 0 - 2 INCH DEEP	SQYD		\$ 3.00	\$0			
0620-0120000J	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	SQYD		\$ 1.00	\$0			
0640-0100000M	AGGREGATE BASE	TON	750	\$ 21.00	\$15,750			
0640-0101000M	AGGREGATE SUBBASE	TON	570	\$ 16.00	\$9,120			
<b>WEARING SURFACES</b>								
0730-0100000M	ASPHALT IN TACK COAT	TON		\$ 425.00	\$0			
0744-0202000M	LEVEL 2, 1/2 INCH DENSE MHMAC	TON	265	\$ 100.00	\$26,500			
0744-0302000M	LEVEL 3, 1/2 INCH DENSE MHMAC	TON		\$ 90.00	\$0			
0746-0100000F	CRACK SEALING	FOOT		\$ 5.00	\$0			
0749-0100000E	EXTRA FOR ASPHALT APPROACHES	EACH	3	\$ 925.00	\$2,775			
0755-0100000J	REINFORCED CONCRETE PAVEMENT	SQYD		\$ 125.00	\$0			

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BID ITEM #	ITEM TITLE	UNIT	QTY	UNIT COST	EXTENDED COST			
0759-0127000J	REINFORCED CONCRETE DRIVEWAYS	SQFT	600	\$ 9.00	\$5,400			
0759-0100000F	CONCRETE CURBS	FOOT		\$ 22.00	\$0			
0759-0103000F	CURB AND GUTTER CONCRETE CURBS	FOOT	800	\$ 22.00	\$17,600			
0759-0128000J	CONCRETE WALKS	SQFT	2800	\$ 5.50	\$15,400			
0759-0126000J	CONCRETE DRIVEWAYS	SQFT		\$ 7.00	\$0			
<b>PERMANENT TRAFFIC CONTROL AND GUIDANCE DEVICES</b>								
0810-0104000F	GUARDRAIL, TYPE 2A	FOOT		\$ 19.00	\$0			
0810-0107000F	GUARDRAIL, TYPE 3	FOOT		\$ 50.00	\$0			
0810-0109000F	GUARDRAIL, TYPE 4	FOOT		\$ 50.00	\$0			
0810-0119000E	GUARDRAIL ANCHORS, TYPE 1	EACH		\$ 780.00	\$0			
0810-0122000E	GUARDRAIL END PIECES, TYPE B	EACH		\$ 700.00	\$0			
0810-0126000E	GUARDRAIL TRANSITION	EACH		\$ 2,300.00	\$0			
0810-0129000E	GUARDRAIL TERMINALS, NON-FLARED	EACH		\$ 2,150.00	\$0			
0810-0130000E	GUARDRAIL TERMINALS, FLARED	EACH		\$ 2,100.00	\$0			
0812-0101000F	ADJUSTING GUARDRAIL	FOOT		\$ 3.50	\$0			
0820-0100000F	CONCRETE BARRIER	FOOT		\$ 61.00	\$0			
0820-0127000F	CONCRETE BARRIER, TALL	FOOT		\$ 85.00	\$0			
0840-0102000E	DELINEATORS, TYPE 2	EACH		\$ 38.00	\$0			
0840-0106000E	MILEPOST MARKER POSTS	EACH		\$ 100.00	\$0			
0867-0103000E	PAVEMENT LEGEND, TYPE B: ARROWS	EACH		\$ 270.00	\$0			
0867-0111000E	PAVEMENT LEGEND, TYPE B: "SCHOOL"	EACH		\$ 495.00	\$0			
0867-0119000E	PAVEMENT LEGEND, TYPE B: RAILROAD CROSSING MARKINGS	EACH		\$ 975.00	\$0			
0867-0131000E	PAVEMENT LEGEND, TYPE B-HS: BICYCLE LANE SYMBOLS	EACH		\$ 280.00	\$0			
0867-0145000J	PAVEMENT BAR, TYPE B	SQFT		\$ 8.50	\$0			
0867-0173000E	PAVEMENT LEGEND, TYPE B: DISABLED PARKING	EACH		\$ 315.00	\$0			
0855-0102000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS	EACH		\$ 4.75	\$0			
0855-0103000E	BI-DIRECTIONAL YELLOW TYPE I MARKERS, RECESSED	EACH		\$ 6.00	\$0			
0860-0200000F	LONGITUDINAL PAVEMENT MARKINGS - PAINT	FOOT		\$ 0.55	\$0			
0865-0116600F	THERMOPLASTIC, EXTRUDED, SURFACE, PROFILED	FOOT	800	\$ 3.50	\$2,800			
0857-0101000L	CONTINUOUS RUMBLE STRIPS	MILE		\$ 900.00	\$0			
<b>PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS</b>								
	PERMANENT SIGNS	LS	1	\$ 2,500.00	\$2,500			
	INTERPRETIVE PANELS AND DÉCORATIVE HARDSCAPE FEATURES	LS			\$0			
0990-0103000A	DETECTOR INSTALLATION, _____	EACH		\$ 2,600.00	\$0			
0990-0101000A	TRAFFIC SIGNAL INSTALLATION, _____	EACH		\$ 178,000.00	\$0			
0990-0105000A	INTERCONNECT SYSTEM	LS		\$ 30,000.00	\$0			
	STREET LIGHTS SINGLE - INCLUDING CONECTIONS, WIRING, CONDUIT	EACH			\$0			
	STREET LIGHTS MULTIPLE - INCLUDING CONECTIONS, WIRING, CONDUIT	EACH			\$0			
	ILLUMINATION				\$0			
<b>RIGHT-OF-WAY DEVELOPMENT AND CONTROL</b>								
1030-0109000R	PERMANENT SEEDING, MIX NO. 1	ACRE	0.10	\$ 5,500.00	\$550			
1050-0135000F	_____ CHAIN LINK FENCE	LIN FT		\$ 18.00	\$0			
1070-0100000E	SINGLE MAILBOX SUPPORTS	EACH		\$ 150.00	\$0			
1070-0101000E	MULTIPLE MAILBOX SUPPORTS	EACH		\$ 350.00	\$0			
	ENVIRONMENTAL MITIGATION SITES	LS			\$0			
	LANDSCAPING	LS	1	\$ 5,000.00	\$5,000			
<b>UNUSUAL ELEMENTS</b>								
1095-0104000E	LITTER RECEPTACLES	EACH		\$1,600.00	\$0			
1095-0100000E	BENCHES, TYPE _____	EACH		\$1,700.00	\$0			
1040-0200000E	TREE GRATES	EACH		\$1,300.00	\$0			
1095-0101000E	BIKE RACKS	EACH		\$600.00	\$0			
0759-0161000F	METAL HANDRAIL, 2 RAILS	LIN FT		\$72.00	\$0			
	WATER QUALITY FACILITY	LS	1	\$30,000.00	\$30,000			
<b>CONSTRUCTION SUBTOTAL</b>							<b>\$243,679</b>	

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<b>BID ITEM #</b>	<b>ITEM TITLE</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>EXTENDED COST</b>

PROJECT PHASES/SUMMARY OF COSTS					
ROW					
	LAND, IMPROVEMENTS, DAMAGES	LS			
	ROW PROCESS (APPR, REV APPR, ACQ, ODOT REV, etc.)	File	2	\$ 10,000.00	\$ 20,000.00
	<b>ROW SUBTOTAL</b>				<b>\$ 20,000.00</b>
<b>UTILITY RELOCATION</b>					
	<i>INSERT APPROPRIATE LINE ITEMS/COSTS FOR ANY REIMBURSABLE UTILITIES</i>				
	<b>UTILITY RELOCATION SUBTOTAL</b>				<b>\$ -</b>
<b>PRELIMINARY ENGINEERING</b>					
	PE - ODOT OVERSIGHT	LS	1	\$ 20,000.00	\$ 20,000.00
	*PE - ENVIRONMENTAL	LS	1		\$ -
	PE - SURVEYING	LS	1		\$ -
	PE - GEO-TECH	LS	1		\$ -
	**PE - DESIGN & PROJECT MANAGEMENT	LS	42%	of CON cost	\$ 102,345.30
	<b>PRELIMINARY ENGINEERING SUBTOTAL</b>				<b>\$ 122,345.30</b>
<b>CONSTRUCTION</b>					
	TOTAL BID ITEM COST (from estimate above)				\$243,679
	CE- ODOT OVERSIGHT	LS	1	\$ 20,000.00	\$ 20,000.00
	***CONSTRUCTION ENGINEERING ADMIN & INSPECTION	LS	20%	of CON cost	\$ 48,735.86
	CONSTRUCTION CONTINGENCY	LS	30%	of CON cost	\$ 73,103.78
	<b>CONSTRUCTION SUBTOTAL</b>				<b>\$ 385,518.91</b>
<b>TOTAL PROJECT COST</b>					<b>\$ 527,864.21</b>

\* 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.