

Addendum 2
Roadway Improvements Jeffco Boulevard & Tenbrook Road
Arnold, MO
Federal Job # CMAQ-5403 (668)

Date: May 31, 2018

To: Prospective Bidders

Owner: City of Arnold
Department of Public Works
2101 Jeffco Boulevard, Arnold, MO 63010

Engineer: Brian Courtwright, P.E.
CBB
340 Regency Centre
Collinsville, IL 62234

This Addendum forms a part of the Bidding and Contract Documents and modifies the originals. FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDUM MAY SUBJECT BIDDER TO DISQUALIFICATION.
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The purpose of this addendum is to make the following clarifications and revisions to the bid documents. This addendum provides clarifications/revisions to:

- Correction to Bituminous Pay Items Quantities.

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1. Corrections were made to the quantity estimate for 401-12.09 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1) and 401-30.00 BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE).

ATTACHMENTS

- Revised BID FORM;
- Revised Plan Sheet 3 Summary of Quantities.
- Revised Plan Sheet 4 Schedule of Quantities.

SUMMARY OF QUANTITIES			SUMMARY OF QUANTITIES			SUMMARY OF QUANTITIES											
ITEM NUM.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CMAQ FUNDING	100% CITY FUNDING	ITEM NUM.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CMAQ FUNDING	100% CITY FUNDING	ITEM NUM.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CMAQ FUNDING	100% CITY FUNDING
ROADWAY ITEMS																	
202-20.10	REMOVAL OF IMPROVEMENTS	L. SUM	1	1		726-12.24	24 IN. CLASS II REINFORCED CONCRETE PIPE CULVERT	LF	32	32		902-83.02	CABLE, 12 AWG 2 CONDUCTOR	LIN. FT.	930	930	
202-99.02a *	EX UTILITY MANHOLE (ATG)	EA	3	2	1	726-12.30	30 IN. CLASS II REINFORCED CONCRETE PIPE CULVERT	LF	25	25		902-83.08	CABLE, 16 AWG 2 CONDUCTOR	LIN. FT.	1510	1510	
202-99.02b *	EX BUSINESS SIGN (TBR&R)	EA	1	1		730-99.03 *	6 IN. PVC PIPE CULVERT	LF	103	103		902-83.10	CABLE, 16 AWG 5 CONDUCTOR	LIN. FT.	1300	1300	
202-99.02c *	EX WATER VALVE (ATG)	EA	1	1		732-06.24	24 IN. PRECAST CONCRETE FLARED END SECTION	EA	2	2		902-83.11	CABLE, 16 AWG 7 CONDUCTOR	LIN. FT.	2920	2920	
202-99.02d *	EX MAILBOX (TBR&R)	EA	1	1		732-99.02 *	6x9'. PRECAST CONCRETE ELLIPTICAL FLARED END SECTION	EA	1	1		902-88.11	PREFORMED PULLBOX, CLASS 2	EACH	3	3	
202-99.03 *	FENCE (TBR)	FT	20	20		SIGNING ITEMS						902-88.12	PREFORMED PULLBOX, CLASS 3	EACH	2	2	
203-10.00	CLASS A EXCAVATION	CUYD	539.3	479.2	60.1	903.10.10	CONCRETE FOOTINGS, EMBEDDED	CUYD	1.17	0.91	0.26	902-91.00	BASE, CONCRETE	CUYD	15.9	15.9	
203-60.00	COMPACTING EXCAVATION	CUYD	296.2	255.4	40.8	903-12.20	PIPE POST	LB	818.1	648.7	169.4	902-99.01	TRAFFIC SIGNAL MAINTENANCE & PROGRAMMING	LS	1	1	
304-05.04	TYPE 5 AGGREGATE FOR BASE (4 IN. THICK)	SQYD	1721	1513	208	903-12.50A	U-CHANNEL POST, 3 LB	FT	127.50	127.50		902-99.02	PUSHBUTTON POST	EACH	2	2	
310-10.03	GRAVEL (A)	SQYD	63	63		903-12.40	BREAKAWAY ASSEMBLY	EA	9	7.00	2.00	902-99.02	RELOCATE/RETERMINATE FIBER OPTIC CABLES	EACH	2	2	
401-12.09	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	TONS	285	236	49	903-50.04	TYPE SHR2L-1 SIGN	SQFT	81.50	63.50	18.00	902-99.02	SPECIAL EVENT BUTTON	EACH	1	1	
401-30.00	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TONS	164.2	153.6	10.6	903-99.02 *	RELOCATE SIGNS	EA	3	3		902-99.02	NETWORK CONNECTED SIGANL MONITOR	EACH	1	1	
407-10.05	TACK COAT	GAL	300	264	36	STRIPING						902-99.02	DETECTOR, PUSHBUTTON W/WAPS FEATURE	EACH	6	6	
502-11.06	CONCRETE PAVEMENT (6 IN. NON-REINF)	SQYD	99	99		620-61.06	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 6 IN, WHITE	LF	1727	1633	94	902-99.02	SDLC PANEL	EACH	1	1	
502-11.08	CONCRETE PAVEMENT (8 IN. NON-REINF)	SQYD	804	677	127	620-61.22	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 12 IN, WHITE	LF	416	416		ALT BID ITEMS					
608-30.06	6 IN. CONCRETE MEDIAN STRIP	SQYD	59	59		620-61.24	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 24 IN, WHITE	LF	207	207		910.37.00	CCTV CAMERA ASSEMBLY	EACH	1	1	
608-50.08	PAVED APPROACH, 8 IN	SQYD	368	368		620-60.01B	4 IN. YELLOW ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	LF	1848	1848							
609-20.12	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LF	30	224	113	620-99.03 *	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 12 IN, YELLOW	LF	74	74							
609-20.11	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE A	LF	116	116		620-99.03 *	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, CURB PAINT, YELLOW	LF	166	166							
609-20.12	INTEGRAL CURB (6 IN. HEIGHT AND UNDER) TYPE B	LF	800	578 384	222 109	620-51.30	TYPE 2 PREFORMED MARKING TAPE (GROOVED), LEFT/RIGHT ARROW	EA	11	11							
616-10.05	CONSTRUCTION SIGNS	SQ FT	122.25	122.3		620-51.31	TYPE 2 PREFORMED MARKING TAPE (GROOVED), STRAIGHT ARROW	EA	3	3							
616-10.10	RELOCATE SIGNS	SQ FT	160	160		620-51.40	TYPE 2 PREFORMED MARKING TAPE (GROOVED), WHITE, YIELD LINE TRIANGLES	EA	21	10	11						
616-10.28	CHANNELIZER	EA	25	25		620-99.03 *	ACRYLIC COPOLYMER FAST DRY PAVEMENT MARKING PAINT, SYMBOL, BLUE	EA	3		3						
616-10.33	DIRECTIONAL INDICATOR BARRICADE	EA	6	6		620-99.03 *	ACRYLIC COPOLYMER FAST DRY PAVEMENT MARKING PAINT, ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 4 IN. BLUE	LF	772		772						
616-99.01 *	MAINTENANCE OF TRAFFIC CONTROL ITEMS	LS	1	1		BICYCLE/PEDESTRIAN ITEMS											
616-99.02 *	RELOCATE CHANNELIZER	EA	42	42		608-10.10	CONCRETE CURB RAMP	SQYD	52	52							
616-99.02 *	RELOCATE DIRECTIONAL INDICATOR BARRICADE	EA	11	11		608-60.04	CONCRETE SIDEWALK, 4 IN.	SQYD	199	199							
617-20.01 *	CONCRETE TRAFFIC BARRIER, TYPE B (MODIFIED)	LF	209	209		608-10.12	TRUNCATED DOMES	SQ FT	109	109							
618-10.00	MOBILIZATION	LS	1	0.88	0.12	ELECTRICAL											
619-10.00	PAVEMENT EDGE TREATMENT	LF	1600	1373	227	901-11.15	BRACKET ARM, 15 FT.	EACH	4	4							
622-10.01	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (LESS THAN 3 IN. THICK)	SQ YD	1372	874	498	901-13.00	LUMNAIRE, 150 WATT LED (MAST ARM LTG)	EACH	4	4							
627-40.00	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS	1	0.88	0.12	902-02.11	SIGNAL HEAD, TYPE 1S	EACH	6	6							
710-10.10	EPOXY COATED TIE BARS (DRILLED AND INSTALLED)	LBS	1670	1433	237	902-02.13	SIGNAL HEAD, TYPE 3S	EACH	1	1							
710-10.10	EPOXY COATED TIE BARS (DRILLED AND INSTALLED)	LBS	1488	1488		902-05.13	SIGNAL HEAD, TYPE 3B	EACH	7	7							
803-10.00A	TURF TYPE TALL FESCUE SODDING	SQ YDS	734	665	69	902-05.14	SIGNAL HEAD, TYPE 4B	EACH	4	4							
805-20.00A	SEEDING WARM SEASON MIXTURES	AC	0.1	0.1		902-27.08	POST, SIGNAL 8 FT.	EACH	2	2							
806-10.17	TEMPORARY SEEDING	AC	0.4	0.3	0.1	902-31.25	POST, TYPE CL, 25 FT. ARM	EACH	1	1							
806-10.19	SILT FENCE	LF	1289	1181	108	902-31.40	POST, TYPE CL, 40 FT. ARM	EACH	2	2							
806-10.21	TYPE I DITCH CHECK	EA	2	2		902-31.55	POST, TYPE CL, 55 FT. ARM	EACH	1	1							
806-10.25	INLET CHECK	EA	8	8		902-42.83	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	EACH	1	1							
806-99.02	TREE PROTECTION	EA	2	2		902-49.75	VIDEO DETECTION SYSTEM, W/DILEMMA ZONE RADAR	EACH	1	1							
DRAINAGE ITEMS						902-86.21	POWER SUPPLY ASSEMBLY, T2 WITH 120V LTG CABINET & UPS	EACH	1	1							
731-00.60	PRECAST CONCRETE MANHOLE - 60 IN	LF	5.4	5.4		902-52.00	CONDUIT, 2 IN., TRENCH WITH TRACER WIRE	LIN. FT.	104	104							
731-10.30	PRECAST CONCRETE DROP INLET 3 FT X2 FT-6IN	LF	4.3	4.3		902-53.00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LIN. FT.	103	103							
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X2 FT	LF	9.9	9.9		902-73.00	CONDUIT, 3 IN., PUSHED WITH TRACER WIRE	LIN. FT.	342	324							
731-99.02 *	EX INLET/MANHOLE (ADJUST TO GRADE)	EA	1	1		902-81.00	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LIN. FT.	420	420							
						902-82.08	CABLE, 8 AWG 1 CONDUCTOR, POWER	LIN. FT.	150	150							

Corporate Engineering
Certificate # 000381

MISSOURI
STATE OF MISSOURI
BRIAN E. COURTWRIGHT
NUMBER
PE-2008002817
PROFESSIONAL ENGINEER

CIVIL ENGINEER

DATE PREPARED
1/26/18

ROUTE STATE
SL MO

DISTRICT SHEET NO.
SL 3

COUNTY
JEFFERSON

JOB NO.
129-15

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

3/9/16

McDOT PRELIMINARY APPROVAL

12/5/17 FINAL R/W PLANS (REV)

12/13/17 PREFINAL PLANS

1/26/18 PS&E PLANS

5/31/18 ADDENDUM 2

SUMMARY OF QUANTITIES

ROADWAY IMPROVEMENTS
JEFFCO BLVD AND TENBROOK RD
ARNOLD, MISSOURI
CMAQ-5403(668) TIP 6624-16

TRANSPORTATION
ENGINEERS+PLANNERS

12400 OLIVE BLVD, SUITE 430
ST. LOUIS, MO 63141
(314) 878-6844
480 COTTONWOOD RD, SUITE B
GLEN CARBON, IL 62134
(618) 656-2612
www.ctbtraffic.com

GOBB

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

LOCATION	PLAN SHEET	REMOVAL OF IMPROVEMENTS (1L SUM)														COLDMILLING <3" THICK (SQ YDS)	EX UTILITY MH (ATG) (EA)	EX BUSINESS SIGN (TBR&R) (EA)	EX WATER VALVE (ATG) (EA)	EX MAILBOX (TBR&R) (EA)	EX FENCE (TBR) (FT)	PAVEMENT EDGE TREATMENT (FT)	EPOXY COATED TIE BARS (DRILLED & INSTALLED) (LBS)
		SAWCUT (FT)	CURB REMOVAL (FT)	PAV'T REMOVAL (SQ YDS)	PARKING LOT PAV'T REMOVAL (SQ YDS)	DRIVEWAY PAV'T REMOVAL (SQ YDS)	SIDEWALK REMOVAL (SQ YDS)	DOWELLED ON MEDIAN REMOVAL (SQ YDS)	EX SEWER REMOVAL (FT)	EX INLET/MH REMOVAL (EA)	EX TREE (TBR) (EA)	EX BOLLARDS (TBR) (EA)	EX GUARDRAIL (TBR) (FT)	EX SIGN (TBR) (EA)	REMOVE EX SIGNAL (EA)								
11+43.09 to 12+50.00 RT	REM 2	227	192	44	243		8						1			1					227	237	
100% CITY FUNDING		227	192	44	243		8						1			1					227	237	
12+50.00 to 13+25.00 RT	REM 2	9	247	17	134	134		18	1												9	10	
13+25.00 to 14+60.00 RT	REM 1	331	381	46			31	20	2	1			2			2				10	331	345	
13+75.00 to 14+60.00 LT	REM 1	18		6			76												10	18	19		
14+60.00 to 14+69.71	REM 1	256		125				7													256	267	
14+66.00 to 14+28.42 LT	REM 1							68					1										
14+66.00 to 14+35.23 RT	REM 1	38	24				12	37					1							38	40		
13+99.85 to 13+15.00 LT	REM 1	173	42	30	33								1							173	180		
13+15.00 to 12+94.64 LT	REM 2	9		4												30				9	10		
12+94.64 to 11+54.01 LT	REM2	252			445			89	2		2				346		1	1		252	263		
11+54.01 to 8+70.00 LT	REM 2	287		64		121						53	1						1	287	299		
CMAQ FUNDING		1373	694	292	612	255	119	112	127	5	1	2	53	6	1	376	2	1	1	1	20	1373	1433

PAVING SCHEDULE									
LOCATION	PLAN SHEET	4" TYPE 5 AGGREGATE (SQ YDS)	6" TYPE B (INTERGRAL) CURB (FT)	8" PCC PAV'T (SQ YDS)	TACK COAT (GALS)	BP-1 WEARING SURFACE (TONS)	STAMPED PCC MEDIAN (DOWELLED-ON) (SQ YDS)	PERMANENT CONCRETE TRAFFIC BARRIER TYPE B (MODIFIED) (FT)	
11+43.09 to 12+50.00 RT	PLN 2	151	109	127	15	32			
100% CITY FUNDING		151	109	127	15	32			
12+50.00 to 13+25.00 RT	PLN 2	130	77	113	6	113			
13+25.00 to 14+60.00 RT	PLN 1	232	142	200	10	200			
13+75.00 to 14+60.00 LT	PLN 2	2	18	5	1	5			
14+66.00 to 14+28.42 LT	PLN 2						31		
14+66.00 to 14+35.23 RT	PLN 2						28		
13+99.85 to 13+15.00 LT	PLN 2	55	15	52	3	52			
13+15.00 to 12+94.64 LT	PLN 1	12	6	11	2	26			
12+94.64 to 11+50.00 LT	PLN 1	144	13	142	8	156			
11+50.00 to 8+70.00 LT	PLN 1	179	113	154	8	154		209	
CMAQ FUNDING		754	384	677	38	706	82	59	209

13
23
1

6
3
18
18

LOCATION	PLAN SHEET	PEDESTRIAN ACCOMIDATION SCHEDULE		
		4" PCC SIDEWALK (SQ YDS)	CONC CURB RAMPS (SQ YDS)	TRUNCATED DOMES (SQ FT)
13+50.00 to 13+25.00 RT	PLN 2	40	12	39
13+25.00 to 14+60.00 RT	PLN 1	86	22	19
13+75.00 to 14+60.00 LT	PLN 2	73	18	30
14+66.00 to 14+35.23 RT	PLN 2			21
CMAQ FUNDING		199	52	109

LOCATION	PLAN SHEET	ENTRANCE & PARKING LOT SCHEDULE											
		4" TYPE 5 AGGREGATE (SQ YDS)	6" TYPE A (INTERGRAL) CURB (FT)	6" TYPE B (INTERGRAL) CURB (FT)	6" TYPE S CURB (FT)	8" PAVED APPROACH (SQ YDS)	6" PCC DRIVEWAY PAV'T (SQ YDS)	TACK COAT (GALS)	6" BIT. PAV'T MIX (BASE) (TON)	6" PCC DRIVEWAY GRAVEL (SQ YDS)	COLDMILLING <3" THICK (SQ YDS)	TACK COAT (GALS)	BP-1 WEARING SURFACE (TONS)
11+43.09 to 12+50 (FOX SCHOOL PARKING LOT)	PLN 2	57		113-0	113			13	10.6		113	8	17
100% CITY FUNDING		57		113-0	113			13	10.6		113	8	17
12+50 to 13+25 (FOX SCHOOL PARKING LOT)	PLN 2	36		72-0	72			8	6.6			2	5
13+25 to 15+00 (FOX SCHOOL PARKING LOT)	PLN 2	63		122-0	122			14	11.8			4	8
14+60 to 14+69.71	PLN 2	160	55			147							
13+59.67	ENT 1	248	24		30	67		99	83.2			13	28
12+45.17, 11+83.08 & CONWAY DR (VACATED)	ENT 2	153	37			154		61	83.2		498	25	73
11+22.99	ENT 3	30					30			13			
9+24.12	ENT 3	25					25			50			
9+90.02	ENT 3	44					44						
CMAQ FUNDING		759	116	194-0	30-224	368	99	182	153.6	63	498	44	114

LOCATION	PLAN SHEET	DRAINAGE STRUCTURE				COVER/LID/GRATE/FRAME			SEWER CLASS II RCCP		PVC	END SECTIONS RCCP	
		PRECAST DROP INLET 3' x 2' (FT)	PRECAST DROP INLET 3' x 2'-6" (FT)	PRECAST 60" MANHOLE (FT)	EX INLET/MH (ATG) (EA)	TYPE 4 (EA)	TYPE T (EA)	TYPE S1 (EA)	24" (FT)	30" (FT)	6" (FT)	24" (EA)	9'X6' (EA)
A2 to EX2	SS1			5.4		1				6			
EX4 to A1	SS1	3.9			1	1		1		19			
B1	SS1		4.3				1						
C1 to C2	SS2	2.4						1			55		
C2 to OUTLET	SS2	3.6					1				48		
6x9 RCEP	SS2												1
DRIVEWAY	PROF1								32			2	
CMAQ FUNDING		9.9	4.3	5.4	1	2	1	3	32	25	103	2	1

LOCATION	PLAN SHEET	SODD (SQ YDS)	SEEDING (SQ YDS)	EROSION CONTROL SCHEDULE				TEMP SEEDING (SQ YDS)
				SILT FENCE (FT)	INLET CHECK (EA)	TYPE I DITCH CHECK (EA)	TREE PROTECTION (EA)	
11+43.09 to 12+50.00 RT	EC2	69		108				0.02
100% CITY FUNDING		69		108				0.1
12+50.00 to 13+25.00 RT	EC2	82		116	1			0.02
13+25.00 to 14+60.00 RT	EC1	206		157	2			0.05
13+75.00 to 14+60.00 LT	EC1	246		876	2			0.06
13+99.85 to 13+15.00 LT	EC1	61						0.02
13+15.00 to 12+94.64 LT	EC2	2						0.01
12+94.64 to 11+50.00 LT	EC2	21	0.01		2			0.01
11+50.00 to 8+70.00 LT	EC2	47	0.06	32	1	2	2	0.07
CMAQ FUNDING		665	0.1	1181	8	2	2	0.3

Corporate Engineering
Certificate # 000381



CIVIL ENGINEER

DATE PREPARED
1/26/18

ROUTE STATE
MO

DISTRICT SHEET NO.
SL 4

COUNTY
JEFFERSON

JOB NO.
129-15

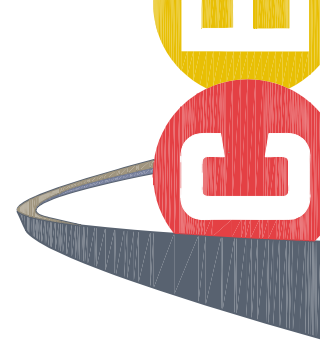
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BRIDGE NO.

DATE	DESCRIPTION
3/9/16	McDOT PRELIMINARY APPROVAL
12/5/17	FINAL R/W PLANS (REV)
12/13/17	PREFINAL PLANS
1/26/18	PS&E PLANS
5/31/18	ADDENDUM 2

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SCHEDULE OF QUANTITIES
ROADWAY IMPROVEMENTS
JEFFCO BLVD AND TENBROOK RD
ARNOLD, MISSOURI
CMAQ-5403(668) TIP 6624-16

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