



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

October 21, 2016

CALL NO. 105
CONTRACT ID NO. 161263
ADDENDUM # 1

Subject: Boone County, STP 5225 (005)
Letting October 28, 2016

- (1) Revised - Plan Sheet - T35
- (2) Added - General Notes - Page 18(a) of 331
- (3) Revised - Note - Page 23 of 331
- (4) Added - Drawing - Page 126(a) of 331
- (5) Revised - Bid Items - Pages 324-331 of 331

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

KY 536 & US 42	KY 536 & WETHERINGTON	KY 536 & HEMPSTEAD	KY 536 & GUNPOWDER	TOTAL	UNITS	CODE	ITEM DESCRIPTION
150	60	60	60	330	LIN FT	4792	CONDUIT 1 INCH
500	125	76	150	851	LIN FT	4793	CONDUIT 1 1/4 INCH
800	80	80	80	1,040	LIN FT	4795	CONDUIT 2 INCH
8	4	3	4	19	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
1300	110	216	290	1,916	LIN FT	4820	TRENCHING AND BACKFILLING
3750	2,340	1410	2058	9,558	LIN FT	4830	LOOP WIRE
4000	2,850	2871	1749	11,470	LIN FT	4844	CABLE-NO. 14/5C
6700	1,765	1136	1598	11,199	LIN FT	4850	CABLE-NO. 14/1 PAIR
0	475	0	0	475	LIN FT	4885	MESSENGER-10800 LB
650	0	500	0	1,150	LIN FT	4886	MESSENGER-15400 LB
1372	845	503	840	3,560	LIN FT	4895	LOOP SAW SLOT AND FILL
1	1	1	0	3	EACH	4931	INSTALL SIG CONTROLLER-TYPE 170
4	4	4	0	12	EACH	4932	INSTALL STEEL STRAIN POLE
1	0	1	1	3	EACH	4950	REMOVE SIGNAL EQUIPMENT
0	5	2	3	10	EACH	6472	INSTALL SPAN MOUNTED SIGN
8	8	8	8	32	EACH	20093NS835	INSTALL PEDESTRIAN HEAD LED
20	20	20	15	75	EACH	20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
12	10	9	4	35	EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED
2	0	1	0	3	EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED
8	8	8	8	32	EACH	21743NN	INSTALL PEDESTRIAN DETECTOR
23	19	19	0	61	CU YD	23157EN	TRAFFIC SIGNAL POLE BASE
8	0	0	2	10	EACH	23222EC	INSTALL SIGNAL PEDESTAL
1	1	1	0	3	EACH	23982EC	INSTALL ANTENNA

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPRIAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8991) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501". THE DISTRICT WILL SUPPLY ALL PROPOSED SIGNS.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
 REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

SUBSECTION: 07.02 MAST ARM POLES
 REVISION: REPLACE ENTIRE 9) NOTE FOR "THE DETAIL ANALYSIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING CALCULATIONS:" WITH THE FOLLOWING:
 LIMIT VERTICAL DEFLECTION TO 8 INCHES FOR GALLOPING ON SINGLE ARMS ONLY.

FILE NAME: C:\PWORK\TED.SWANSEGAR\DC239178\T03500SU.DGN

USER: ted.swansegar
 DATE PLOTTED: October 21, 2016

E-SHEET NAME: T03500SU

MicroStation v8.11.7.443

7-21-2016

DESIGNED BY: IASZCWZGD
DATE SUBMITTED: 8-25-2016
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF BOONE
PROJECT NUMBERS: E052_008_0536_Q1Q-Q14
----- TRAFFIC SIGNAL ESTIMATE OF QUANTITIES ----- MEASUREMENT, CONST. AND MISC NOTES

REVISED 10-21-2016

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

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8

2 10

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FILE NAME: C:\USERS\CHARLES.WEITZEL\DESKTOP\6 158 SIGNALS\T03500SU.DGN

USER: charles.weitzel
 DATE PLOTTED: September 19, 2016

E-SHEET NAME: T03500SU

MicroStation v8.11.7.443

7-21-2016

DESIGNED BY: TAS/CW/GD
DATE SUBMITTED: 8-25-2016
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF BOONE
PROJECT NUMBER: FD52 008 0536 010-014
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

GENERAL NOTES

SPECIFICATIONS

REFERENCES TO THE STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION INCLUDING ANY SUPPLEMENTAL SPECIFICATIONS.

MATERIAL DESIGN SPECIFICATIONS

FOR CLASS "AA" REINFORCED CONCRETE: $f'c = 4,000$ PSI
STEEL REINFORCEMENT: $F_y = 60$ KSI

REINFORCEMENT

ALL REINFORCEMENT SHOWN ON THIS SHEET IS TO BE SIZE #5 AND EPOXY COATED IN ACCORDANCE WITH SECTION 811.10 OF THE STANDARD SPECIFICATIONS. USE STIRRUP BEND DIAMETERS FOR ALL BENT BARS.

STRAIGHT REINFORCEMENT IS TO BE LAPPED 2'-2" WHEN NECESSARY.

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE TO CENTER OF BARS UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS. CLEAR DISTANCE TO FACE OF CONCRETE IS 2 INCHES UNLESS OTHERWISE NOTED.

COMPLETION OF THE STRUCTURE

THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL, LABOR OR CONSTRUCTION OPERATIONS, NOT OTHERWISE SPECIFIED, ARE TO BE INCLUDED IN THE BID ITEM MOST APPROPRIATE TO THE WORK INVOLVED. THIS MAY INCLUDE COFFERDAMS, SHORING, EXCAVATIONS, BACKFILLING, REMOVAL OF ALL OR PARTS OF EXISTING STRUCTURE, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, LABOR, OR ANYTHING ELSE REQUIRED TO COMPLETE THE STRUCTURE.

ON-SITE INSPECTION

EACH CONTRACTOR SUBMITTING A BID FOR THIS WORK SHALL MAKE A THOROUGH INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS SO THAT WORK CAN BE EXPEDITIOUSLY PERFORMED AFTER A CONTRACT IS AWARDED. SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE OF THIS INSPECTION HAVING BEEN MADE. ANY CLAIMS RESULTING FROM SITE CONDITIONS WILL NOT BE HONORED BY THE DEPARTMENT OF HIGHWAYS.

BARRIER RAILING

PAINT ALL OF THE RAILING (BASE PLATE, ANCHOR BOLTS, VERTICAL SUPPORT, TUBING), EXISTING AND NEW, IN ACCORDANCE WITH 813.12.01 OF THE STANDARD SPECIFICATIONS, WITH THE FINAL COLOR BEING DARK GREEN, OR AS DIRECTED BY THE ENGINEER.

RAIL TUBING SHALL BE A500, CLASS B.

PROVIDE 1/4" END CAPS WELDED TO RAIL AT ALL TERMINATIONS.

SIDEWALK

BLAST CLEAN DECK AND EXISTING SIDEWALK AREA THAT IS TO BE OVERLAYED BY THE SIDEWALK CONCRETE ACCORDING TO 606.03.04 OF THE STANDARD SPECIFICATIONS.

DRILL AND GROUT B1(e) BARS 3" INTO EXISTING DECK AND SIDEWALK WITH AN APPROVED RESIN BONDING SYSTEM AS PER SECTION 511 OF THE STANDARD SPECIFICATIONS.

SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH 505 OF THE STANDARD SPECIFICATIONS.

MEASUREMENT

THE LINEAR FOOT BID FOR THE SIDEWALK IS MEASURED ALONG THE ROADWAY GUTTERLINE. INCLUDE ALL ITEMS AND PROCESSES SHOWN BY THIS GENERAL NOTE IN THE BID ITEM, BRIDGE BARRIER RETROFIT.

EXISTING BRIDGE PLANS

FOR EXISTING BRIDGE PLANS, SEE DRWG. NO. 24619.

BONDING NEW CONCRETE TO PREVIOUSLY PLACED CONCRETE

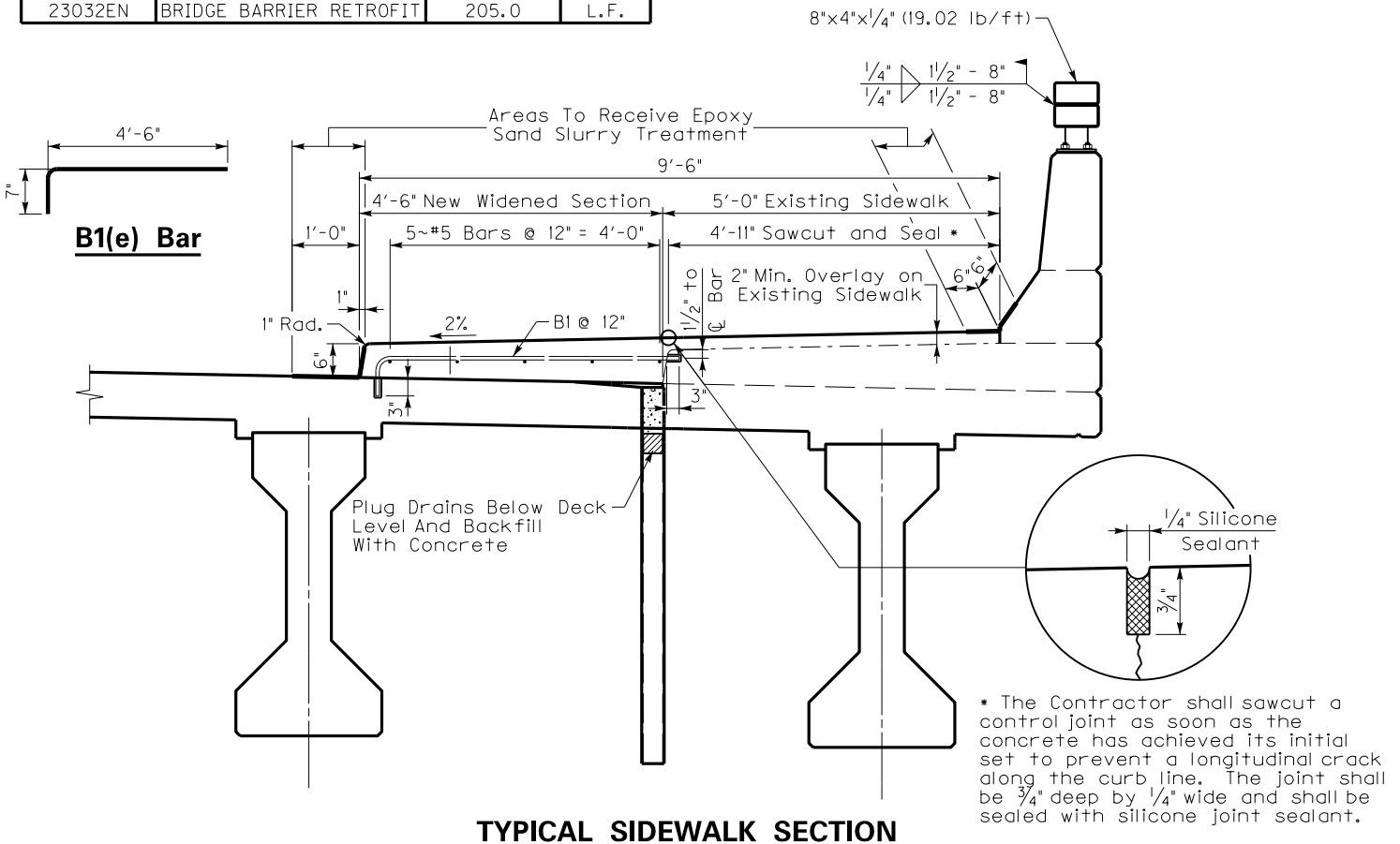
NEW CONCRETE SHALL BE BONDED TO PREVIOUSLY PLACED (EXISTING) CONCRETE WITH AN EPOXY RESIN SYSTEM CONFORMING TO SECTION 826 OF THE CURRENT EDITION OF THE SPECIFICATIONS. THE EPOXY RESIN SYSTEM TO BE USED MUST BE ON THE DEPARTMENT'S "LIST OF APPROVED MATERIALS." THE COST OF THIS WORK, INCLUDING ALL LABOR, TOOLS, AND MATERIALS IS TO BE INCIDENTAL TO THE UNIT PRICE BID FOR BRIDGE BARRIER RETROFIT.

EPOXY SAND SLURRY

APPLY EPOXY SAND SLURRY TREATMENT AS SHOWN.

ESTIMATE OF QUANTITIES

BID CODE	ITEM	QUANTITY	UNIT
23032EN	BRIDGE BARRIER RETROFIT	205.0	L.F.



TYPICAL SIDEWALK SECTION

**DIVISION OF TRAFFIC OPERATIONS
 RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED
 ON TRAFFIC SIGNALS/LIGHTING**

Item Number: **6-158.00**

County: **BOONE**

Description: **KY 536 SIGNALS**

Cabinets	Master code	
3	T-01-0020	Base Mounted 332 Cabinet
3	T-01-0100	170 Controller
3	T-01-0501	Conflict Monitor, Model 2018
6	T-01-0510	Isolator, Model 242 (for ped detector and railroad)
21	T-01-0600	Loop Detector, Model 222
38	T-01-0700	Load Switches

Signals		
35	T-02-0009	Siemens 3 Section Signal
16	T-02-0032	Siemen 3 section backplate
3	T-02-0033	Siemen 4 section 12" signal (poly)
2	T-02-0045	Siemen 5 section 12" signal w/backplate (aluminum)
300	T-02-0051	2" wide fluorescent yellow reflective tape
32	T-02-0090	Pedestrian signal housing
12	T-02-0300	LED Module 12" red arrow
24	T-02-0310	LED Module 12" yellow arrow
3	T-02-0320	LED Module 12" green arrow
26	T-02-0330	LED Module 12" red ball
26	T-02-0340	LED Module 12" yellow ball
26	T-02-0350	LED Module 12" green ball
26	T-02-0365	LED Countdown Pedestrian Module

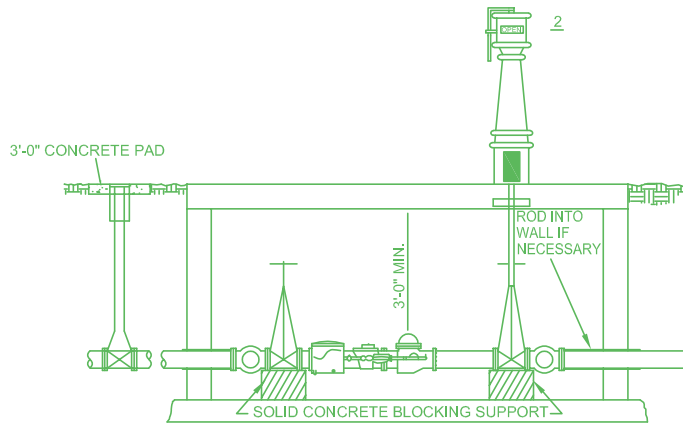
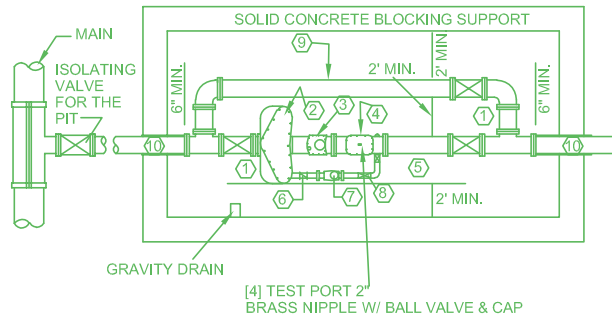
Special items		
3	T-02-0520	Antenna 10 db yagi
3	T-03-0240	Jumper 60' N-N RG-213
10	T-09-0415	30 X 36 through 36 X 36 sign hanger (New)
8	T-02-0650	Pedstl.top mntg.bkt One-way
2	T-02-0660	Pedstl.top mntg.bkt Two-way
10	T-02-0670	Pedestal
32	T-06-0710	Ped Detector Pole Mount FSA Box
32	T-06-0730	Ped Button w/o Plunger
32	T-17-0015	9 X 15 Countdown Ped Sign DBL Sided

Poles		
8	T-04-0030	Steel Strain Pole 32 foot
4	T-04-0051	Steel Strain Pole 36 foot

Electrical Contractor Name _____
 Electrical Contractor Supervisor _____ Contact number for Supervisor _____
 Project Engineer _____ Contact number for Project Engineer _____
 Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project
 Signature of Project Engineer or Designee _____

DRAWING NOTES

- | | |
|---|--|
| <ul style="list-style-type: none"> ① VALVES WITH OUTSIDE STEM AND YOKE, FLANGED CONNECTION (RESILIENT SEATED VALVES) ② U.L. FIRE RATED STRAINER ③ METER ④ U.L. LISTED DETECTOR CHECK ⑤ SPOOL PIECE, 12", FLANGED AND PLAIN END ⑥ GATE VALVE ⑦ LOW FLOW METER ⑧ CHECK VALVE ⑨ BYPASS LINE SHALL BE EQUALIVENT IN SIZE AS THE FEED LINE ⑩ CLASS 52 PIPING WITH FLANGED END WITHIN PIT | <ul style="list-style-type: none"> 1. ANY PUMPER CONNECTION SHALL BE INSTALLED DOWN STREAM OF OUTLET VALVE & BACKFLOW DEVICE. 2. A POST INDICATOR SHALL BE THE TYPE THAT WILL ATTACH TO THE WHEEL OPERATOR AND ALLOW OPERATION OF VALVE WITHIN THE PIT. 3. SEE DRAWINGS. 4. A BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AS FIRST DEVICE INSIDE OF THE BUILDING. THERE SHALL NOT BE BRANCHES OR TAPS BETWEEN THE METERING ASSEMBLY AND THE BACKFLOW PREVENTION ASSEMBLY. 5. ALL PIPING IN PIT MUST BE FLANGED. |
|---|--|



NOTE: STRAINER METER & DETECTOR CHECK VALVE SHALL BE U.L. LISTED ASSEMBLY.

BOONE COUNTY MASTER METER PIT

4/2/07

11

B.C. - MASTER - METER - PIT

BCWD

SCALE: N.T.S.

PROPOSAL BID ITEMS

161263

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Report Date 10/21/16

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	50,100.00	TON		\$	
0020	00013		LIME STABILIZED ROADBED	119,846.00	SQYD		\$	
0030	00014		LIME	2,049.00	TON		\$	
0040	00018		DRAINAGE BLANKET-TYPE II-ASPH	25,627.00	TON		\$	
0050	00078		CRUSHED AGGREGATE SIZE NO 2 (INCLUDING 264 TONS FOR PERFORATED PIPE)	2,745.00	TON		\$	
0060	00100		ASPHALT SEAL AGGREGATE	6.00	TON		\$	
0070	00103		ASPHALT SEAL COAT	1.00	TON		\$	
0080	00190		LEVELING & WEDGING PG64-22	1,302.00	TON		\$	
0090	00214		CL3 ASPH BASE 1.00D PG64-22	77,346.00	TON		\$	
0100	00358		ASPHALT CURING SEAL	125.00	TON		\$	
0110	00388		CL3 ASPH SURF 0.38B PG64-22	12,724.00	TON		\$	
0120	02084		JPC PAVEMENT-8 IN	475.00	SQYD		\$	
0130	02099		CEM CONC ENT PAVEMENT-6 IN	3,459.00	SQYD		\$	
0140	02101		CEM CONC ENT PAVEMENT-8 IN	5,282.00	SQYD		\$	
0150	02599		FABRIC-GEOTEXTILE TYPE IV	7,010.00	SQYD		\$	
0160	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0170	02677		ASPHALT PAVE MILLING & TEXTURING	2,102.00	TON		\$	
0180	02702		SAND FOR BLOTTER	300.00	TON		\$	
0190	23188EC		STAMPED CONCRETE-10 IN	974.00	SQYD		\$	
0200	24781EC		INTELLIGENT COMPACTION FOR ASPHALT	80,985.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0210	00440		ENTRANCE PIPE-15 IN	56.00	LF		\$	
0220	00441		ENTRANCE PIPE-18 IN	56.00	LF		\$	
0230	01000		PERFORATED PIPE-4 IN	4,767.00	LF		\$	
0240	01005		PERFORATED PIPE EDGE DRAIN-4 IN	26,756.00	LF		\$	
0250	01010		NON-PERFORATED PIPE-4 IN	655.00	LF		\$	
0260	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS		\$	
0270	01028		PERF PIPE HEADWALL TY 3-4 IN	14.00	EACH		\$	
0280	01314		PLUG PIPE	5.00	EACH		\$	
0290	01585		REMOVE DROP BOX INLET	10.00	EACH		\$	
0300	01705		REMOVE CURB & GUTTER BOX INLET	4.00	EACH		\$	
0310	01810		STANDARD CURB AND GUTTER	47,230.00	LF		\$	
0320	01825		ISLAND CURB AND GUTTER	760.00	LF		\$	
0330	01830		STANDARD INTEGRAL CURB	565.00	LF		\$	
0340	01875		STANDARD HEADER CURB	249.00	LF		\$	
0350	01923		STANDARD BARRIER MEDIAN TYPE 5	242.00	SQYD		\$	
0360	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	11.00	EACH		\$	
0370	02003		RELOCATE TEMP CONC BARRIER	1,060.00	LF		\$	
0380	02014		BARRICADE-TYPE III	20.00	EACH		\$	
0390	02091		REMOVE PAVEMENT	3,493.00	SQYD		\$	
0400	02159		TEMP DITCH	7,400.00	LF		\$	

PROPOSAL BID ITEMS

161263

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Report Date 10/21/16

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02160		CLEAN TEMP DITCH	3,700.00	LF		\$	
0420	02200		ROADWAY EXCAVATION	395,077.00	CUYD		\$	
0430	02203		STRUCTURE EXCAV-UNCLASSIFIED	83.00	CUYD		\$	
0440	02242		WATER (FOR DUST CONTROL)	150.00	MGAL		\$	
0450	02274		FENCE-6 FT CHAIN LINK	1,023.00	LF		\$	
0460	02287		DOUBLE VEHICULAR CHAIN LINK GATE	1.00	EACH		\$	
0470	02351		GUARDRAIL-STEEL W BEAM-S FACE	582.00	LF		\$	
0480	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
0490	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0500	02381		REMOVE GUARDRAIL	810.00	LF		\$	
0510	02391		GUARDRAIL END TREATMENT TYPE 4A	4.00	EACH		\$	
0520	02429		RIGHT-OF-WAY MONUMENT TYPE 1	243.00	EACH		\$	
0530	02432		WITNESS POST	20.00	EACH		\$	
0540	02460		REMOVE TREES OR STUMPS	3.00	EACH		\$	
0550	02479		CAP MANHOLE	1.40	SQYD		\$	
0560	02483		CHANNEL LINING CLASS II (INCLUDING 352 TONS FROM PIPE DRAINAGE)	2,960.00	TON		\$	
0570	02484		CHANNEL LINING CLASS III (INCLUDING 230 TONS FROM PIPE DRAINAGE)	829.00	TON		\$	
0580	02545		CLEARING AND GRUBBING (APPROXIMATELY 82.3 ACRES)	1.00	LS		\$	
0590	02551		CONCRETE-CLASS A FOR STEPS	2.00	CUYD		\$	
0600	02555		CONCRETE-CLASS B (FOR RETAINING WALL)	63.00	CUYD		\$	
0610	02562		TEMPORARY SIGNS	1,633.00	SQFT		\$	
0620	02585		EDGE KEY	131.00	LF		\$	
0630	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	15,000.00	SQYD	\$2.00	\$	\$30,000.00
0640	02611		HANDRAIL-TYPE A-1	89.00	LF		\$	
0650	02619		HANDRAIL-TYPE A	9.00	LF		\$	
0660	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0670	02651		DIVERSIONS (BY-PASS DETOURS) (#1 - STA. 4+00 - 23+00 MAINLINE)	1.00	LS		\$	
0680	02651		DIVERSIONS (BY-PASS DETOURS) (#2 - STA. 20+09.70 - 21+68.58 - GOLDEN POND DR.)	1.00	LS		\$	
0690	02651		DIVERSIONS (BY-PASS DETOURS) (#3 - STA. 66+00 - 72+25.96 - MAINLINE)	1.00	LS		\$	
0700	02651		DIVERSIONS (BY-PASS DETOURS) (#4 - STA. 100+60.72 - 111+25 - MAINLINE)	1.00	LS		\$	
0710	02651		DIVERSIONS (BY-PASS DETOURS) (#5 - STA. 124+00 - 129+84.57 - MAINLINE)	1.00	LS		\$	
0720	02651		DIVERSIONS (BY-PASS DETOURS) (#6 - STA. 39+91.87 - 44+80.35 - KY 237, GUNPOWDER RD.)	1.00	LS		\$	
0730	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0740	02690		SAFELOADING	225.00	CUYD		\$	
0750	02701		TEMP SILT FENCE	7,400.00	LF		\$	
0760	02703		SILT TRAP TYPE A	80.00	EACH		\$	
0770	02704		SILT TRAP TYPE B	80.00	EACH		\$	
0780	02705		SILT TRAP TYPE C	80.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0790	02706		CLEAN SILT TRAP TYPE A	80.00	EACH		\$	
0800	02707		CLEAN SILT TRAP TYPE B	80.00	EACH		\$	
0810	02708		CLEAN SILT TRAP TYPE C	80.00	EACH		\$	
0820	02720		SIDEWALK-4 IN CONCRETE	15,180.00	SQYD		\$	
0830	02726		STAKING	1.00	LS		\$	
0840	02731		REMOVE STRUCTURE (20 X 6 RCBC - STA. 47+66 - 47+86 - HATHAWAY RD.)	1.00	LS		\$	
0850	02898		RELOCATE CRASH CUSHION	2.00	EACH		\$	
0860	03171		CONCRETE BARRIER WALL TYPE 9T	3,000.00	LF		\$	
0870	03385		PVC PIPE-6 IN	96.00	LF		\$	
0880	05950		EROSION CONTROL BLANKET	4,942.00	SQYD		\$	
0890	05952		TEMP MULCH	258,940.00	SQYD		\$	
0900	05953		TEMP SEEDING AND PROTECTION	194,205.00	SQYD		\$	
0910	05963		INITIAL FERTILIZER	23.00	TON		\$	
0920	05964		20-10-10 FERTILIZER	11.00	TON		\$	
0930	05985		SEEDING AND PROTECTION	192,129.00	SQYD		\$	
0940	05990		SODDING	25,074.00	SQYD		\$	
0950	05992		AGRICULTURAL LIMESTONE	138.00	TON		\$	
0960	05998		SPREADING STOCKPILED TOPSOIL	5,949.00	CUYD		\$	
0970	06510		PAVE STRIPING-TEMP PAINT-4 IN	134,700.00	LF		\$	
0980	06514		PAVE STRIPING-PERM PAINT-4 IN	137,725.00	LF		\$	
0990	06565		PAVE MARKING-THERMO X-WALK-6 IN	4,488.00	LF		\$	
1000	06567		PAVE MARKING-THERMO STOP BAR-12IN	303.00	LF		\$	
1010	06568		PAVE MARKING-THERMO STOP BAR-24IN	1,149.00	LF		\$	
1020	06570		PAVE MARKING-PAINT CROSS-HATCH	3,218.00	SQFT		\$	
1030	06572		PAVE MARKING-DOTTED LANE EXTEN	1,364.00	LF		\$	
1040	06573		PAVE MARKING-THERMO STR ARROW	4.00	EACH		\$	
1050	06574		PAVE MARKING-THERMO CURV ARROW	110.00	EACH		\$	
1060	06575		PAVE MARKING-THERMO COMB ARROW	23.00	EACH		\$	
1070	06585		PAVEMENT MARKER TY IVA-MW TEMP	290.00	EACH		\$	
1080	06588		PAVEMENT MARKER TY IVA-BY TEMP	1,032.00	EACH		\$	
1090	06589		PAVEMENT MARKER TYPE V-MW	315.00	EACH		\$	
1100	06591		PAVEMENT MARKER TYPE V-BY	467.00	EACH		\$	
1110	08901		CRASH CUSHION TY VI CLASS BT TL2	2.00	EACH		\$	
1120	10020NS		FUEL ADJUSTMENT	371,689.00	DOLL	\$1.00	\$	\$371,689.00
1130	10030NS		ASPHALT ADJUSTMENT	457,931.00	DOLL	\$1.00	\$	\$457,931.00
1140	20418ED		REMOVE & RELOCATE SIGNS	19.00	EACH		\$	
1150	20550ND		SAWCUT PAVEMENT	3,722.00	LF		\$	
1160	20818ND		GAS UTILITY COORDINATION	1.00	LS		\$	
1170	21289ED		LONGITUDINAL EDGE KEY	3,246.00	LF		\$	
1180	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	128.00	LF		\$	
1190	23032EN		BRIDGE BARRIER RETROFIT	205.00	LF		\$	
1200	23139EN		STRIPING REMOVAL	25,000.00	LF		\$	
1210	23158ES505		DETECTABLE WARNINGS	2,020.00	SQFT		\$	
1220	23261EC		PAVE MARK-THERMO-X-WALK-24 IN	2,105.00	LF		\$	
1230	23276EN11F		TURF REINFORCEMENT MAT 3	211.00	SQYD		\$	
1240	24386EC		PAVE MARKING THERMO-BIKE LANE ARROW	6.00	EACH		\$	
1250	24540		R/W MONUMENT TYPE 3	110.00	EACH		\$	
1260	24541		R/W MONUMENT TYPE 3A	2.00	EACH		\$	

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1270	24605ED		RELOCATE (HISTORIC ENTRANCE GATE)	1.00	EACH		\$	
1280	24663ED		WITNESS R/W MONUMENT TYPE 4	1.00	EACH		\$	
1290	24814EC		PIPELINE INSPECTION	26,756.00	LF		\$	
1300	24845EC		UTILITY COORDINATION	1.00	LS		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1310	00462		CULVERT PIPE-18 IN	321.00	LF		\$	
1320	00464		CULVERT PIPE-24 IN	207.00	LF		\$	
1330	00466		CULVERT PIPE-30 IN	74.00	LF		\$	
1340	00520		STORM SEWER PIPE-12 IN	23.00	LF		\$	
1350	00521		STORM SEWER PIPE-15 IN	7,067.00	LF		\$	
1360	00522		STORM SEWER PIPE-18 IN	9,602.00	LF		\$	
1370	00524		STORM SEWER PIPE-24 IN	4,094.00	LF		\$	
1380	00526		STORM SEWER PIPE-30 IN	1,168.00	LF		\$	
1390	00528		STORM SEWER PIPE-36 IN	2,479.00	LF		\$	
1400	00529		STORM SEWER PIPE-42 IN	920.00	LF		\$	
1410	00530		STORM SEWER PIPE-48 IN	501.00	LF		\$	
1420	00531		STORM SEWER PIPE-54 IN	1,228.00	LF		\$	
1430	00532		STORM SEWER PIPE-60 IN	1,128.00	LF		\$	
1440	00533		STORM SEWER PIPE-66 IN	1,202.00	LF		\$	
1450	00564		STORM SEWER PIPE-72 IN EQUIV	18.00	LF		\$	
1460	00980		SLOTTED DRAIN PIPE-12 IN	10.00	LF		\$	
1470	01200		PIPE CULVERT HEADWALL-12 IN	2.00	EACH		\$	
1480	01202		PIPE CULVERT HEADWALL-15 IN	2.00	EACH		\$	
1490	01204		PIPE CULVERT HEADWALL-18 IN	12.00	EACH		\$	
1500	01208		PIPE CULVERT HEADWALL-24 IN	6.00	EACH		\$	
1510	01210		PIPE CULVERT HEADWALL-30 IN	2.00	EACH		\$	
1520	01212		PIPE CULVERT HEADWALL-36 IN	1.00	EACH		\$	
1530	01214		PIPE CULVERT HEADWALL-42 IN	2.00	EACH		\$	
1540	01222		PIPE CULVERT HEADWALL-66 IN	1.00	EACH		\$	
1550	01373		METAL END SECTION TY 1-24 IN	1.00	EACH		\$	
1560	01450		S & F BOX INLET-OUTLET-18 IN	1.00	EACH		\$	
1570	01451		S & F BOX INLET-OUTLET-24 IN	3.00	EACH		\$	
1580	01452		S & F BOX INLET-OUTLET-30 IN	1.00	EACH		\$	
1590	01453		S & F BOX INLET-OUTLET-36 IN	3.00	EACH		\$	
1600	01456		CURB BOX INLET TYPE A	201.00	EACH		\$	
1610	01490		DROP BOX INLET TYPE 1	1.00	EACH		\$	
1620	01496		DROP BOX INLET TYPE 3	45.00	EACH		\$	
1630	01499		DROP BOX INLET TYPE 4	10.00	EACH		\$	
1640	01538		DROP BOX INLET TYPE 7	3.00	EACH		\$	
1650	01544		DROP BOX INLET TYPE 11	1.00	EACH		\$	
1660	01559		DROP BOX INLET TYPE 13G	3.00	EACH		\$	
1670	01568		DROP BOX INLET TYPE 13S	3.00	EACH		\$	
1680	01580		DROP BOX INLET TYPE 15	19.00	EACH		\$	
1690	01587		DROP BOX INLET TYPE 16S	1.00	EACH		\$	
1700	01644		JUNCTION BOX-30 IN	1.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1710	01756		MANHOLE TYPE A	5.00	EACH		\$	
1720	01761		MANHOLE TYPE B	5.00	EACH		\$	
1730	01767		MANHOLE TYPE C	28.00	EACH		\$	
1740	08100		CONCRETE-CLASS A (ANTI-SEEP COLLAR)	3.30	CUYD		\$	
1750	24026EC		PIPE CULVERT HEADWALL-54 IN	2.00	EACH		\$	

Section: 0004 - BRIDGE - CULVERT- SINGLE RCBC 20FT X 8 FT - DWG . 27594

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1760	02612		HANDRAIL-TYPE A-2	160.00	LF		\$	
1770	08002		STRUCTURE EXCAV-SOLID ROCK	520.00	CUYD		\$	
1780	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1790	08100		CONCRETE-CLASS A	373.00	CUYD		\$	
1800	08150		STEEL REINFORCEMENT	41,353.00	LB		\$	
1801	23032EN		BRIDGE BARRIER RETROFIT (ADDED: 10-21-16)	205.00	LF		\$	

Section: 0005 - UTILITY - GAS

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1810	16500		G DIRECTIONAL BORE INST (RIGHT OF MAINLINE, STA. 8+00 TO 14+00)	613.00	LF	\$86.00	\$	\$52,718.00
1820	16515		G PIPE POLYETHYLENE/PLASTIC 02 INCH INST	592.00	LF	\$46.00	\$	\$27,232.00
1830	16517		G PIPE POLYETHYLENE/PLASTIC 04 INCH INST	1,154.00	LF	\$50.00	\$	\$57,700.00
1840	16518		G PIPE POLYETHYLENE/PLASTIC 06 INCH INST	953.00	LF	\$60.00	\$	\$57,180.00
1850	16521		G PIPE POLYETHYLENE/PLASTIC 12 INCH INST	12,623.00	LF	\$86.00	\$	\$1,085,578.00
1860	16531		G SERVICE LONG SIDE 1 OR 1-1/4 INCH INST	30.00	EACH	\$1,200.00	\$	\$36,000.00
1870	16536		G SERVICE SHORT SIDE 1 OR 1-1/4 INCH INST	16.00	EACH	\$360.00	\$	\$5,760.00
1880	16549		G VALVE POLYETHYLENE/PLASTIC 02 IN INST	3.00	EACH	\$100.00	\$	\$300.00
1890	16551		G VALVE POLYETHYLENE/PLASTIC 04 IN INST	5.00	EACH	\$250.00	\$	\$1,250.00
1900	16552		G VALVE POLYETHYLENE/PLASTIC 06 IN INST	4.00	EACH	\$450.00	\$	\$1,800.00
1910	16555		G VALVE POLYETHYLENE/PLASTIC 12 IN INST	3.00	EACH	\$1,000.00	\$	\$3,000.00

Section: 0006 - SEWER

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1920	02404		SEPTIC TANK TREATMENT	1.00	EACH		\$	
1930	15000		S BYPASS PUMPING	4.00	EACH		\$	
1940	15086		S LATERAL CLEANOUT	8.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1950	15090		S LATERAL SHORT SIDE 06 INCH	8.00	EACH		\$	
1960	15092		S MANHOLE	11.00	EACH		\$	
1970	15093		S MANHOLE ABANDON/REMOVE	11.00	EACH		\$	
1980	15094		S MANHOLE ADJUST TO GRADE	34.00	EACH		\$	
1990	15095		S MANHOLE CASTING STANDARD	2.00	EACH		\$	
2000	15098		S MANHOLE SPECIAL	2.00	EACH		\$	
2010	15099		S MANHOLE TAP EXISTING	5.00	EACH		\$	
2020	15104		S PIPE DUCTILE IRON 08 INCH	644.00	LF		\$	
2030	15112		S PIPE PVC 08 INCH	1,123.00	LF		\$	

Section: 0007 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2040	06406		SBM ALUM SHEET SIGNS .080 IN	759.00	SQFT		\$	
2050	06407		SBM ALUM SHEET SIGNS .125 IN	1,006.00	SQFT		\$	
2060	06410		STEEL POST TYPE 1	3,974.00	LF		\$	
2070	20418ED		REMOVE & RELOCATE SIGNS	19.00	EACH		\$	
2080	24631EC		BARCODE SIGN INVENTORY	408.00	EACH		\$	

Section: 0008 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2090	04792		CONDUIT-1 IN	330.00	LF		\$	
2100	04793		CONDUIT-1 1/4 IN	851.00	LF		\$	
2110	04795		CONDUIT-2 IN	1,040.00	LF		\$	
2120	04811		ELECTRICAL JUNCTION BOX TYPE B	19.00	EACH		\$	
2130	04820		TRENCHING AND BACKFILLING	1,916.00	LF		\$	
2140	04830		LOOP WIRE	9,558.00	LF		\$	
2150	04844		CABLE-NO. 14/5C	11,470.00	LF		\$	
2160	04850		CABLE-NO. 14/1 PAIR	11,199.00	LF		\$	
2170	04885		MESSENGER-10800 LB	475.00	LF		\$	
2180	04886		MESSENGER-15400 LB	1,150.00	LF		\$	
2190	04895		LOOP SAW SLOT AND FILL	3,560.00	LF		\$	
2200	04931		INSTALL CONTROLLER TYPE 170	3.00	EACH		\$	
2210	04932		INSTALL STEEL STRAIN POLE	12.00	EACH		\$	
2220	04950		REMOVE SIGNAL EQUIPMENT	3.00	EACH		\$	
2230	06472		INSTALL SPAN MOUNTED SIGN	10.00	EACH		\$	
2240	20093NS835		INSTALL PEDESTRIAN HEAD-LED	32.00	EACH		\$	
2250	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	75.00	EACH		\$	
2260	20188NS835		INSTALL LED SIGNAL-3 SECTION	35.00	EACH		\$	
2270	20266ES835		INSTALL LED SIGNAL- 4 SECTION	3.00	EACH		\$	
2280	21743NN		INSTALL PEDESTRIAN DETECTOR	32.00	EACH		\$	
2290	23157EN		TRAFFIC SIGNAL POLE BASE	61.00	CUYD		\$	
2300	23222EC		INSTALL SIGNAL PEDESTAL (REVISED: 10-21-16)	10.00	EACH		\$	
2310	23982EC		INSTALL ANTENNA	3.00	EACH		\$	

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Section: 0009 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2320	04701		POLE 40 FT MTG HT	62.00	EACH		\$	
2330	04722		BRACKET 8 FT	62.00	EACH		\$	
2340	04740		POLE BASE	62.00	EACH		\$	
2350	04750		TRANSFORMER BASE	62.00	EACH		\$	
2360	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
2370	04780		FUSED CONNECTOR KIT	124.00	EACH		\$	
2380	04793		CONDUIT-1 1/4 IN	9,200.00	LF		\$	
2390	04795		CONDUIT-2 IN	2,400.00	LF		\$	
2400	04820		TRENCHING AND BACKFILLING	9,800.00	LF		\$	
2410	04832		WIRE-NO. 12	9,300.00	LF		\$	
2420	04833		WIRE-NO. 8	31,200.00	LF		\$	
2430	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	18.00	EACH		\$	
2440	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	2.00	EACH		\$	
2450	21543EN		BORE AND JACK CONDUIT	1,200.00	LF		\$	
2460	24589ED		LED LUMINAIRE (TYPE A, 150 WATT)	49.00	EACH		\$	
2470	24589ED		LED LUMINAIRE (TYPE A, 220 WATT)	8.00	EACH		\$	
2480	24589ED		LED LUMINAIRE (TYPE A, 50 WATT)	5.00	EACH		\$	

Section: 0010 - WATERLINE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2490	14005		W ENCASEMENT CONCRETE	120.00	LF		\$	
2500	14018		W FIRE HYDRANT ADJUST	2.00	EACH		\$	
2510	14019		W FIRE HYDRANT ASSEMBLY (INCLUDES TEE & VALVE)	15.00	EACH		\$	
2520	14020		W FIRE HYDRANT RELOCATE (INCLUDES TEE & VALVE)	23.00	EACH		\$	
2530	14029		W METER ADJUST	4.00	EACH		\$	
2540	14030		W METER RELOCATE (INCLUDES TEMP. RELOCATIONS)	147.00	EACH		\$	
2550	14031		W METER VAULT	1.00	EACH		\$	
2560	14037		W PIPE DUCTILE IRON 08 INCH	2,402.00	LF		\$	
2570	14039		W PIPE DUCTILE IRON 12 INCH	13,942.00	LF		\$	
2580	14047		W PIPE DCTL IRON RSTRND JOINT 06 IN	158.00	LF		\$	
2590	14048		W PIPE DCTL IRON RSTRND JOINT 08 IN	769.00	LF		\$	
2600	14051		W PIPE DCTL IRON RSTRND JOINT 16 IN	935.00	LF		\$	
2610	14052		W PIPE DCTL IRON RSTRND JOINT 20 IN	757.00	LF		\$	
2620	14059		W PIPE PVC 06 INCH (C-900 W/ TRACER WIRE)	120.00	LF		\$	
2630	14060		W PIPE PVC 08 INCH (C-900 W/ TRACER WIRE)	1,515.00	LF		\$	
2640	14074		W PLUG EXISTING MAIN	9.00	EACH		\$	
2650	14076		W REMOVE TRANSITE (AC) PIPE	590.00	LF		\$	
2660	14090		W TAPPING SLEEVE AND VALVE SIZE 2 (12-INCH)	1.00	EACH		\$	
2670	14094		W TIE-IN 06 INCH	6.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2680	14095		W TIE-IN 08 INCH	14.00	EACH		\$	
2690	14097		W TIE-IN 12 INCH	5.00	EACH		\$	
2700	14098		W TIE-IN 16 INCH	1.00	EACH		\$	
2710	14099		W TIE-IN 20 INCH	2.00	EACH		\$	
2720	14105		W VALVE 06 INCH	1.00	EACH		\$	
2730	14106		W VALVE 08 INCH	13.00	EACH		\$	
2740	14108		W VALVE 12 INCH	20.00	EACH		\$	
2750	14109		W VALVE 16 INCH	3.00	EACH		\$	
2760	14113		W VALVE BOX ADJUST	10.00	EACH		\$	
2770	14117		W VALVE CUT-IN 06 INCH	6.00	EACH		\$	
2780	14118		W VALVE CUT-IN 08 INCH	10.00	EACH		\$	
2790	14120		W VALVE CUT-IN 12 INCH	4.00	EACH		\$	
2800	14121		W VALVE CUT-IN 16 INCH	1.00	EACH		\$	
2810	14122		W VALVE CUT-IN 20 INCH	2.00	EACH		\$	
2820	14145		W SERV COPPER LONG SIDE 1 IN	3.00	EACH		\$	
2830	14147		W SERV COPPER LONG SIDE 2 IN	2.00	EACH		\$	
2840	14148		W SERV COPPER LONG SIDE 3/4 IN	44.00	EACH		\$	
2850	14149		W SERV COPPER SHORT SIDE 1 IN	4.00	EACH		\$	
2860	14152		W SERV COPPER SHORT SIDE 3/4 IN	80.00	EACH		\$	

Section: 0011 - TRAINEES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2870	02742		TRAINEE PAYMENT REIMBURSEMENT 1 GROUP 2, 3 OR 4 OPERATOR	1,400.00	HOUR		\$	

Section: 0012 - DEMOBILIZATION AND/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2880	02568		MOBILIZATION	1.00	LS		\$	
2890	02569		DEMOBILIZATION	1.00	LS		\$	