



TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Steven L. Beshear
Governor

Michael W. Hancock, P.E.
Secretary

January 22, 2014

CALL NO. 301
CONTRACT ID NO. 141004
ADDENDUM # 3

Subject: Knox County, FD04 SPP 061 0011 009-011
Letting January 24, 2014

- (1) Revised - Plan Sheet - S01
- (2) Added - Special Notes - Pages 19(h)-19(i) of 119
- (3) Revised - Bid Items - Pages 116-119 of 119

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 blue ink that reads "Ryan Griffith".

Ryan Griffith
Acting Director
Division of Construction Procurement

RG:ks
Enclosures



An Equal Opportunity Employer M/F/D

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

KNOX COUNTY

KY 11

OVER CSX RAILROAD

STA. 23 + 54.65

ESTIMATE OF QUANTITIES

BID ITEM CODE	08100	08104	08150	08151	08001	08020	02231	08500	02998	03299	08046	08033	08094	02599	02274	08039	08671	08135	2403	08269	22146EN			08037		
BID ITEM	Concrete Class "A"	Concrete Class "AA"	Steel Reinforcement	Steel Reinforcement, Epoxy Coated	Structure Excavation, Common	Crushed Aggregate Slope Protection	Structure Granular Backfill	Approach Slab	Masonry Coating	Armored Edge for Concrete	Piles - Steel HP 12 X 53	Test Piles	Pile Points 12"	Fabric Geotextile Type 4	Chain Link Fence 6ft.	Pre-Drilling for Piles	Precast PC Box Beam SB33-48	Mechanical Reinforcement Couplers #10	Remove Concrete Masonry	Electrical Conduit	Concrete Patching Repair	Architectural Treatment	Concrete Staining	Cofferdam		
UNIT	C.Y.	C.Y.	LBS.	LBS.	C.Y.	Tons	C.Y.	S.Y.	S.Y.	L.F.	L.F.	L.F.	Each	S.Y.	L.F.	L.F.	L.F.	Each	C.Y.	L.S.	Sq.Ft.	S.Y.	S.Y.	L.S.		
Semi-Integral End Bent #1	26	14	3150	2987	21	124	106	133	14	48	267	66	5	161		333		39	18		15	4	12			
Pier #1	64	14	11203	835	216				51		133	44	4						18							
Pier #2	151	14	21805	835	131				51		122	41	4						48							
Semi-Integral End Bent #2	38	18	4758	3989	42	130	134	190	16	63	308	61	6	203		369		19				5	14			
Substructure																										
Superstructure		302		87875											348		1018					159	620	1		
BRIDGE TOTALS	279	362	40916	96521	410	254	240	323	132	111	830	212	19	364	348	702	1018	39	103	1	15	168	646	1		

① Pier anchor dowels and pipe sleeves are incidental to pier diaphragm concrete. Refer to the pier details sheet for anchor dowel details.

② Three additional mechanical couplers are included in the estimate of quantities for testing purposes.

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Sheet No.	Description
S01	Title Sheet
S02	General Notes
S03	Layout Plan and Elevation
S04	Subsurface Data
S05	Foundation Layout
S06-S08	Semi-Integral End Bent #1
S09-S12	Pier 1 & 2 Details
S13-S15	Semi-Integral End Bent #2
S16-S17	Substructure Bills of Reinforcement
S18	Framing Plan
S19	PPC Box Beam, SB33-48 Details
S20	Bearing Details
S21-S32	Superstructure
S33-S34	Superstructure Bill of Reinforcement
S35-S36	Construction Elevations
S37-S38	Approach Slabs
S39	Architectural Treatments

SPECIAL NOTES

Special Note for Concrete Stain and Sealer

SPECIAL PROVISIONS

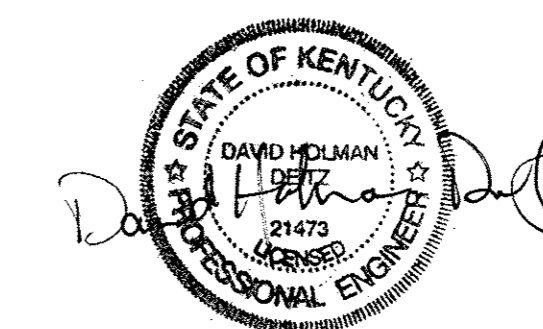
69(12) Embankment at Bridge End Bent Structures

STANDARD DRAWINGS

BGX-006-09	Stencils for Structures
BGX-012-02	Geotechnical Legend
BJE-001-12	Neoprene Expansion Dams and Armored Edges
BPS-003-09	HP12x53 Steel Pile
BBP-002-04	Bearing Details
RGX-100-05	Treatment of Embankment at End Bents
RGX-105-07	Treatment of Embankment at End Bents

SPECIFICATIONS

2012 Standard Specifications for Road and Bridge Construction with current Supplemental Specifications
6th Edition AASHTO LRFD Bridge Design Specifications (2012).



David H. Deitz
P.E. 21473
1.15.2014
DATE

REVISION	DATE
DATE: NOVEMBER, 2013	CHECKED BY: C.M. GREENWELL
DESIGNED BY: D.H. DEITZ	DETAILED BY: J.A. ROSE
	D.H. DEITZ

**Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS**

KNOX

ROUTE **KY 11** CROSSING **CSX RAILROAD**

TITLE SHEET

PREPARED BY PALMER ENGINEERING CO.	SHEET NO. S01
	DRAWING NO. 26778

ITEM NUMBER

11-150.00

LETTING DATE

CONSTRUCTION PROJECT NO.

FILE NAME: 26778_001_Title_REV_1.dgn

USERNAME: \$\$\$p0t+tedbby\$\$\$

DATE: 1/15/2014

SHEET LOCATION: T11

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

KNOX COUNTY KY 11 OVER CSX RAILROAD STA. 23+54.65

ESTIMATE OF QUANTITIES

BID ITEM CODE	08100	08104	08150	08151	08001	08020	02231	08500	02998	03299	08046	08033	08094	02599	02274	08039	08671	08135	2403	08269	22146EN		08037	
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UNIT	C.Y.	C.Y.	LBS.	LBS.	C.Y.	Tons	C.Y.	S.Y.	S.Y.	L.F.	L.F.	L.F.	Each	S.Y.	L.F.	L.F.	L.F.	Each	C.Y.	L.S.	Sq.Ft.	S.Y.	S.Y.	L.S.
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UPDATED ESTIMATE OF QUANTITIES TABLE 1/15/2014

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NOVEMBER, 2013	CHECKED BY
DESIGNED BY: D.H. DEITZ	C.M. GREENWELL
DETAILED BY: J.A. ROSE	D.H. DEITZ

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

KNOX

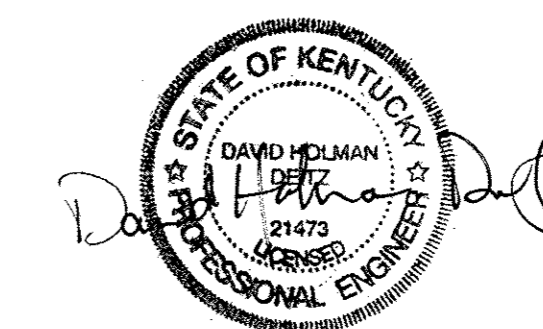
ROUTE CROSSING
KY 11 CSX RAILROAD

TITLE SHEET

PREPARED BY	SHEET NO.
PALMER ENGINEERING CO.	S01
	DRAWING NO.
	26778

ITEM NUMBER

11-150.00



David H. Deitz
P.E. 21473
1.15.2014
DATE

FILE NAME: 26778_001_Title_REV_1.dgn

DATE: 1/15/2014

SHEET LOCATION: T11

USERNAME: \$\$\$p0t+tedbby\$\$\$

LETTING DATE

CONSTRUCTION PROJECT NO.

SPECIAL NOTE FOR PAINT

Use an approved coatings system from the Project List of Approved Materials, found in the **SPECIAL NOTE FOR CONCRETE STAIN AND SEALER**. All paint supplied shall conform to the applicable Special Notes contained in this proposal. The Department requires acceptance testing of samples obtained on a per-lot basis per-shipment. The Division of Materials shall perform acceptance testing in accordance with Section 821 of the Kentucky Standard Specifications. At his option, the Engineer may elect to conduct more frequent sampling and testing. Test samples shall be taken at the Contractor's paint storage site. Department personnel shall perform sampling. Allow (10) working days for testing and approval of the sampled paint.

Note: It is the Contractor's responsibility to maintain an adequate inventory of approved paint. The Department shall assume no responsibility for lost work due to rejection of paint or approved paint subsequently found to be defective during the application process.

SPECIAL NOTE FOR PAINT STORAGE, HANDLING, SAMPLING, MIXING AND THINNING

A paint storage site shall be established for receiving and storing paint delivered for use on the project, shop and field. All new paint shall be received at the storage site for inventory and acceptance testing. At that time, have the Contractor's QC inspector (**SEE SPECIAL NOTE FOR QUALITY CONTROL**) and the Department's inspectors independently inventory the supplied paint by batch number and quantities delivered. The Department's inspector examines all paint containers delivered and rejects those with 1) broken seals, 2) rust, 3) and altered, missing or illegible batch numbers or labels. A representative of the Department samples each lot of material (**SEE SPECIAL NOTE FOR PAINT**). Rejected paint containers shall be labeled "REJECTED" and dispose of them promptly. The unapproved and/or rejected containers of paint shall be stored separately from those that have been approved.

The addition of solvents to paint shall be permitted **only** by written approval from the Engineer.

Use only new solvents supplied by the paint manufacturer. Solvents shall only be used in the presence of the Department inspector. Solvents from new, unopened containers with the solvent manufacturer's labeling intact shall be used. The QC inspector shall record locations where solvent-thinned paint was used.

Solvents used for cleaning at the job site shall be kept in sealed containers away from mixing operations. Solvents used to clean brushes, rollers, or spray equipment shall be collected in sealed containers and stored as a hazardous waste.

The paint manufacturer shall be required to provide a technical representative at the job site, shop or field, when requested by the contractor or the Department at no additional cost to the Department.

WORKMANSHIP - All structural steel surfaces shall be properly cleaned and painted to the satisfaction of the Engineer. There shall be no provision for missed areas or substandard work regardless of size of the area in question. **All improperly prepared or painted surfaces shall be repaired to meet the provisions of this specification.**

Allowable field variation of the color of all cured finish coats on structural steel shall be $2.0 \cdot E^*$.

These values shall be obtained from a spectrophotometer utilizing a D65 illuminant at 45 degrees illumination and 0 degrees viewing with a 2 degrees observer. The reference for this test shall be readings obtained on the initial test patch (**SEE SPECIAL NOTE FOR QUALITY CONTROL**).

PROPOSAL BID ITEMS

Report Date 1/22/14

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	2,338.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	7,476.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	11.80	TON		\$	
0040	00103		ASPHALT SEAL COAT	1.41	TON		\$	
0050	00221		CL2 ASPH BASE 0.75D PG64-22	207.00	TON		\$	
0060	00223		CL3 ASPH BASE 0.75D PG64-22	986.00	TON		\$	
0070	00301		CL2 ASPH SURF 0.38D PG64-22	94.00	TON		\$	
0080	00388		CL3 ASPH SURF 0.38B PG64-22	187.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0090	00078		CRUSHED AGGREGATE SIZE NO 2	10.00	TON		\$	
0100	01000		PERFORATED PIPE-4 IN	1,326.00	LF		\$	
0110	01010		NON-PERFORATED PIPE-4 IN	185.00	LF		\$	
0120	01020		PERF PIPE HEADWALL TY 1-4 IN	10.00	EACH		\$	
0130	01310		REMOVE PIPE	130.00	LF		\$	
0140	01691		FLUME INLET TYPE 2MODIFIED	2.00	EACH		\$	
0150	01718		REMOVE INLET	2.00	EACH		\$	
0160	01891		ISLAND HEADER CURB TYPE 2	100.00	LF		\$	
0170	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	15.00	EACH		\$	
0180	02014		BARRICADE-TYPE III	8.00	EACH		\$	
0190	02159		TEMP DITCH	1,406.00	LF		\$	
0200	02200		ROADWAY EXCAVATION	9,143.00	CUYD		\$	
0210	02223		GRANULAR EMBANKMENT	7,128.00	CUYD		\$	
0220	02242		WATER	.60	MGAL		\$	
0230	02265		REMOVE FENCE	513.00	LF		\$	
0240	02273		FENCE-4 FT CHAIN LINK	502.00	LF		\$	
0250	02351		GUARDRAIL-STEEL W BEAM-S FACE	1,180.00	LF		\$	
0260	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0270	02367		GUARDRAIL END TREATMENT TYPE 1	3.00	EACH		\$	
0280	02381		REMOVE GUARDRAIL	1,345.00	LF		\$	
0290	02429		RIGHT-OF-WAY MONUMENT TYPE 1	7.00	EACH		\$	
0300	02432		WITNESS POST	3.00	EACH		\$	
0310	02483		CHANNEL LINING CLASS II	178.00	TON		\$	
0320	02484		CHANNEL LINING CLASS III	42.00	TON		\$	
0330	02545		CLEARING AND GRUBBING 2.6 ACRES	1.00	LS		\$	
0340	02562		TEMPORARY SIGNS	390.00	SQFT		\$	
0350	02599		FABRIC-GEOTEXTILE TYPE IV	20,491.00	SQYD		\$	
0360	02600		FABRIC GEOTEXTILE TY IV FOR PIPE REVISED: 1-15-14	111.00	SQYD	\$2.00	\$	\$222.00
0370	02625		REMOVE HEADWALL	4.00	EACH		\$	
0380	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0390	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0400	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	

PROPOSAL BID ITEMS

Report Date 1/22/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0410	02677		ASPHALT PAVE MILLING & TEXTURING	10.00	TON		\$	
0420	02690		SAFELADING	1.40	CUYD		\$	
0430	02701		TEMP SILT FENCE	1,406.00	LF		\$	
0440	02703		SILT TRAP TYPE A	3.00	EACH		\$	
0450	02704		SILT TRAP TYPE B	3.00	EACH		\$	
0460	02705		SILT TRAP TYPE C	3.00	EACH		\$	
0470	02706		CLEAN SILT TRAP TYPE A	9.00	EACH		\$	
0480	02707		CLEAN SILT TRAP TYPE B	9.00	EACH		\$	
0490	02708		CLEAN SILT TRAP TYPE C	9.00	EACH		\$	
0500	02709		CLEAN TEMP SILT FENCE	1,406.00	LF		\$	
0510	02726		STAKING	1.00	LS		\$	
0520	03262		CLEAN PIPE STRUCTURE	1.00	EACH		\$	
0530	05952		TEMP MULCH	15,943.00	SQYD		\$	
0540	05953		TEMP SEEDING AND PROTECTION	1,594.00	SQYD		\$	
0550	05963		INITIAL FERTILIZER	.40	TON		\$	
0560	05964		20-10-10 FERTILIZER	.65	TON		\$	
0570	05985		SEEDING AND PROTECTION	15,943.00	SQYD		\$	
0580	05992		AGRICULTURAL LIMESTONE	7.80	TON		\$	
0590	05998		SPREADING STOCKPILED TOPSOIL40096 TOPSOILING-6IN THICK OBTAINED ON SITE SY	2,465.00	CUYD		\$	
0600	06514		PAVE STRIPING-PERM PAINT-4 IN	4,060.00	LF		\$	
0610	06549		PAVE STRIPING-TEMP REM TAPE-B	280.00	LF		\$	
0620	06550		PAVE STRIPING-TEMP REM TAPE-W	2,210.00	LF		\$	
0630	06551		PAVE STRIPING-TEMP REM TAPE-Y	70.00	LF		\$	
0640	06568		PAVE MARKING-THERMO STOP BAR-24IN	63.00	LF		\$	
0650	06574		PAVE MARKING-THERMO CURV ARROW	9.00	EACH		\$	
0660	06589		PAVEMENT MARKER TYPE V-MW	10.00	EACH		\$	
0670	10020NS		FUEL ADJUSTMENT REVISED: 1-15-14	2,020.00	DOLL	\$1.00	\$	\$2,020.00
0680	20209EP69		GRANULAR PILE CORE	744.00	CUYD		\$	
0690	23265ES717		PAVE MARK TY 1 TAPE STOP BAR-24 IN	90.00	LF		\$	
0700	23274EN11F		TURF REINFORCEMENT MAT 1	540.00	SQYD		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0710	00461		CULVERT PIPE-15 IN	8.00	LF		\$	
0720	00464		CULVERT PIPE-24 IN	16.00	LF		\$	
0730	00522		STORM SEWER PIPE-18 IN	11.00	LF		\$	
0740	01200		PIPE CULVERT HEADWALL-12 IN	1.00	EACH		\$	
0750	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
0760	01208		PIPE CULVERT HEADWALL-24 IN	1.00	EACH		\$	
0770	01433		SLOPED BOX OUTLET TYPE 1-18 IN	1.00	EACH		\$	
0780	02610		RETAINING WALL-GABION	49.00	CUYD		\$	
0790	03349		STEEL PIPE-12 IN	64.00	LF		\$	
0800	21661ES706		BORE AND JACK PIPE12 INCH	64.00	LF		\$	

Section: 0004 - BRIDGE

PROPOSAL BID ITEMS

Report Date 1/22/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0810	02231		STRUCTURE GRANULAR BACKFILL	240.00	CUYD		\$	
0820	02274		FENCE-6 FT CHAIN LINK	348.00	LF		\$	
0830	02403		REMOVE CONCRETE MASONRY	103.00	CUYD		\$	
0840	02599		FABRIC-GEOTEXTILE TYPE IV	364.00	SQYD		\$	
0850	02998		MASONRY COATING	132.00	SQYD		\$	
0860	08001		STRUCTURE EXCAVATION-COMMON	410.00	CUYD		\$	
0870	08020		CRUSHED AGGREGATE SLOPE PROT	254.00	TON		\$	
0880	08033		TEST PILES	212.00	LF		\$	
0890	08039		PRE-DRILLING FOR PILES	702.00	LF		\$	
0900	08046		PILES-STEEL HP12X53	830.00	LF		\$	
0910	08094		PILE POINTS-12 IN	19.00	EACH		\$	
0920	08100		CONCRETE-CLASS A	279.00	CUYD		\$	
0930	08104		CONCRETE-CLASS AA	362.00	CUYD		\$	
0940	08135		MECHANICAL REINF COUPLER #10	39.00	EACH		\$	
0950	08150		STEEL REINFORCEMENT	40,916.00	LB		\$	
0960	08151		STEEL REINFORCEMENT-EPOXY COATED	96,521.00	LB		\$	
0970	08269		ELECTRICAL CONDUIT	1.00	LS		\$	
0980	08301		REMOVE SUPERSTRUCTUREDEMOLITION OF EXISTING BRIDGE SUPERSTRUCTURE	1.00	LS		\$	
0990	08500		APPROACH SLAB	323.00	SQYD		\$	
1000	08671		PRECAST PC BOX BEAM SB33	1,018.00	LF		\$	
1010	22146EN		CONCRETE PATCHING REPAIR	15.00	SQFT		\$	
1020	23026ED		ARCHITECTURAL TREATMENT	168.00	SQYD		\$	
1030	23168ED		CONCRETE STAINING	646.00	SQYD		\$	
1031	24664EC		CONCRETE TESTING EQUIPMENT ADDED: 1-13-14	1.00	LS		\$	
1032	03299		ARMORED EDGE FOR CONCRETE ADDED: 1-15-14	111.00	LF		\$	
1033	08037		COFFERDAM ADDED: 1-22-14	1.00	LS		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1040	04792		CONDUIT-1 IN	45.00	LF		\$	
1050	04793		CONDUIT-1 1/4 IN	468.00	LF		\$	
1060	04795		CONDUIT-2 IN	490.00	LF		\$	
1070	04811		ELECTRICAL JUNCTION BOX TYPE B	7.00	EACH		\$	
1080	04820		TRENCHING AND BACKFILLING	1,040.00	LF		\$	
1090	04830		LOOP WIRE	3,048.00	LF		\$	
1100	04844		CABLE-NO. 14/5C	1,767.00	LF		\$	
1110	04845		CABLE-NO. 14/7C	170.00	LF		\$	
1120	04850		CABLE-NO. 14/1 PAIR	5,683.00	LF		\$	
1130	04873		POLE 45 FT WOODEN	4.00	EACH		\$	
1140	04884		ANCHOR	4.00	EACH		\$	
1150	04886		MESSENGER-15400 LB	920.00	LF		\$	
1160	04895		LOOP SAW SLOT AND FILL	1,259.00	LF		\$	
1170	04931		INSTALL CONTROLLER TYPE 170	2.00	EACH		\$	
1180	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1190	04950		REMOVE SIGNAL EQUIPMENT	2.00	EACH		\$	

PROPOSAL BID ITEMS

Report Date 1/22/14

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1200	06472		INSTALL SPAN MOUNTED SIGN	2.00	EACH		\$	
1210	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	16.00	EACH		\$	
1220	20188NS835		INSTALL LED SIGNAL-3 SECTION	13.00	EACH		\$	
1230	20189NS835		INSTALL LED SIGNAL-5 SECTION	1.00	EACH		\$	
1240	20266ES835		INSTALL LED SIGNAL- 4 SECTION	1.00	EACH		\$	
1250	23157EN		TRAFFIC SIGNAL POLE BASE	19.36	CUYD		\$	
1260	23982EC		INSTALL ANTENNA	1.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1270	04701		POLE 40 FT MTG HT	6.00	EACH		\$	
1280	04720		BRACKET 4 FT	1.00	EACH		\$	
1290	04724		BRACKET 12 FT	5.00	EACH		\$	
1300	04740		POLE BASE	5.00	EACH		\$	
1310	04750		TRANSFORMER BASE	5.00	EACH		\$	
1320	04760		POLE W/SECONDARY CONTROL EQUIP	1.00	EACH		\$	
1330	04770		HPS LUMINAIRE	6.00	EACH		\$	
1340	04780		FUSED CONNECTOR KIT	12.00	EACH		\$	
1350	04793		CONDUIT-1 1/4 IN	345.00	LF		\$	
1360	04795		CONDUIT-2 IN	190.00	LF		\$	
1370	04820		TRENCHING AND BACKFILLING	475.00	LF		\$	
1380	04821		OPEN CUT ROADWAY	80.00	LF		\$	
1390	04832		WIRE-NO. 12	810.00	LF		\$	
1400	04833		WIRE-NO. 8	2,100.00	LF		\$	
1410	04940		REMOVE LIGHTING	1.00	LS		\$	
1420	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	3.00	EACH		\$	

Section: 0007 - DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1430	02569		DEMOBILIZATION	1.00	LS		\$	