

Estimate 24432(14)

Estimated Cost:\$8,249,131.47

Contingency: 0.00%

Estimated Total: \$8,249,131.47

I-35 over US 60
PS&E Submittal

Base Date: 07/26/18

Spec Year: 09

Unit System: E

Work Type: BRIDGE AND APPROACHES

Highway Type: ASPHALT

Urban/Rural Type: RURAL

Season: SUMMER

County: KAY

Latitude of Midpoint: 364143

Longitude of Midpoint: 972045

District:

Federal/State Project Number: 24432(14)

Prepared by Zack Dahmm on 07/26/18

<u>Line #</u>	<u>Item Number</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
<u>Description</u>					
<u>Supplemental Description</u>					
Group 0100: Roadway					
0005	201(A) 0102 CLEARING AND GRUBBING	1.00	LSUM	\$5,000.00000	\$5,000.00
0006	202(A) 0183 UNCLASSIFIED EXCAVATION	7,576.00	CY	\$8.00000	\$60,608.00
0007	202(D) 0184 UNCLASSIFIED BORROW	22,558.00	CY	\$10.00000	\$225,580.00
0008	205(A) 4229 TYPE A-SALVAGED TOPSOIL	1.00	LSUM	\$50,000.00000	\$50,000.00
0009	221(C) 2801 TEMPORARY SILT FENCE	3,956.00	LF	\$2.00000	\$7,912.00
0010	221(D) 2803 TEMPORARY SEDIMENT FILTER	3.00	EA	\$200.00000	\$600.00
0011	221(F) 0100 TEMPORARY SILT DIKE	266.00	LF	\$8.00000	\$2,128.00
0012	230(A) 2806 SOLID SLAB SODDING	23,747.00	SY	\$2.00000	\$47,494.00
0013	232(A) 2813 SEEDING METHOD A	4.91	AC	\$600.00000	\$2,946.00
0014	233(A) 2817 VEGETATIVE MULCHING	4.91	AC	\$250.00000	\$1,227.50
0015	241 2832 MOWING	9.82	AC	\$100.00000	\$982.00
0016	242 0400 (PL)STABILIZED CONSTRUCTION EXIT	2.00	EA	\$3,000.00000	\$6,000.00
0017	303(A) 2100 AGGREGATE BASE TYPE A	5,624.00	CY	\$52.00000	\$292,448.00
0018	307(K) 4300 STABILIZED SUBGRADE	26,693.00	SY	\$5.20000	\$138,803.60
0019	326(A) 0100 GEOTEXTILE REINFORCEMENT	20,029.00	SY	\$3.00000	\$60,087.00
0020	402(E) 0225 TRAFFIC BOUND SURFACE COURSE TYPE E	2,656.00	TON	\$35.00000	\$92,960.00
0021	405 5200 PERMEABLE FRICTION COURSE	817.00	TON	\$100.00000	\$81,700.00
0022	407(B) 0250 TACK COAT	9,305.00	GAL	\$4.00000	\$37,220.00
0023	411(B) 5945 SUPERPAVE, TYPE S3(PG 64-22 OK)	6,642.00	TON	\$75.00000	\$498,150.00

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0024	411(F) 6100 STONE MATRIX ASPHALT	1,532.00	TON	\$145.00000	\$222,140.00
0025	413(A) 4861 RUMBLE STRIP-METHOD HMA-CON	6,930.00	LF	\$0.50000	\$3,465.00
0026	413(C) 4868 RUMBLE STRIP-METHOD PCC-CON	3,293.00	LF	\$1.00000	\$3,293.00
0027	414(A) 0210 P.C.CONCRETE PAVEMENT(PLACEMENT)	7,839.00	SY	\$16.00000	\$125,424.00
0028	414(G) 5275 P.C. CONCRETE FOR PAVEMENT	1,854.00	CY	\$125.00000	\$231,750.00
0029	509(D) 0325 CLASS C CONCRETE	10.00	CY	\$300.00000	\$3,000.00
0030	609(B) 1526 2'-8" COMB. CURB & GUTTER (8" BARRIER)	222.00	LF	\$30.00000	\$6,660.00
0031	611(G) 6002 INLET (SMD-TYPE 2)	3.00	EA	\$2,500.00000	\$7,500.00
0032	613(A) 0491 18" R.C.PIPE CLASS III	412.00	LF	\$60.00000	\$24,720.00
0033	613(A) 4495 22" X 13" R.C.PIPE ARCH CLASS A-III	549.00	LF	\$74.00000	\$40,626.00
0034	613(L) 4506 22" X 13" PREFAB. CULVERT END SEC., ARCH	1.00	EA	\$2,000.00000	\$2,000.00
0035	613(L) 5726 18" PREFAB. CULVERT END SECTION, ROUND	1.00	EA	\$800.00000	\$800.00
0036	619(A) 0920 REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LSUM	\$5,000.00000	\$5,000.00
0037	619(B) 4726 REMOVAL OF CURB AND GUTTER	222.00	LF	\$8.00000	\$1,776.00
0038	619(B) 4727 REMOVAL OF CONCRETE PAVEMENT	1,955.00	SY	\$8.00000	\$15,640.00
0039	619(B) 4728 REMOVAL OF ASPHALT PAVEMENT	8,810.00	SY	\$4.00000	\$35,240.00
0040	619(B) 4763 REMOVAL OF CONCRETE PAVEMENT W/ASPHALT OVERLAY	9,758.00	SY	\$6.08059	\$59,334.40
0041	619(B) 4780 REMOVAL OF GUARDRAIL	1,962.00	LF	\$3.00000	\$5,886.00

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0042	619(B) 4791 REMOVAL OF CURB	152.00	LF	\$10.00000	\$1,520.00
0043	619(C) 0924 SAWING PAVEMENT	5,944.00	LF	\$4.00000	\$23,776.00
0044	623 0100 (PL)GUARDRAIL CURBING	4.00	EA	\$1,500.00000	\$6,000.00
0045	623(A) 0932 BEAM GUARDRAIL W-BEAM SINGLE	900.00	LF	\$17.00000	\$15,300.00
0046	623(F) 8300 GUARDRAIL TRAIL END TURNDOWN (31")	2.00	EA	\$1,000.00000	\$2,000.00
0047	623(G) 8590 GUARDRAIL END TREATMENT (31")	6.00	EA	\$2,250.00000	\$13,500.00
0048	623(I) 8690 GUARDRAIL BRIDGE CONN-TRAIL END (31")	2.00	EA	\$1,000.00000	\$2,000.00
0049	623(I) 8700 GUARDRAIL BRIDGE CONN-THRIE BEAM (31")	4.00	EA	\$1,750.00000	\$7,000.00
0050	853 9066 GUARDRAIL DELINEATORS(TYPE 1, CODE 1)	30.00	EA	\$12.00000	\$360.00

Total for Group 0100:\$2,477,556.50

Group 0200: Bridge A

0051	501(B) 1307 SUBSTRUCTURE EXCAVATION COMMON	160.00	CY	\$23.50000	\$3,760.00
0052	501(G) 6309 CLSM BACKFILL	150.80	CY	\$157.00000	\$23,675.60
0053	504(A) 1304 APPROACH SLAB	273.40	SY	\$195.00000	\$53,313.00
0054	504(B) 1305 SAW-CUT GROOVING	1,174.20	SY	\$5.00000	\$5,871.00
0055	504(C) 6250 SEALED EXPANSION JOINT	84.00	LF	\$350.00000	\$29,400.00
0056	504(E) 6190 42" F-SHAPED PARAPET	640.00	LF	\$90.00000	\$57,600.00
0057	506(A) 4050 STRUCTURAL STEEL M270 GRADE 50W	289,480.00	LB	\$1.80000	\$521,064.00
0058	507(A) 6170	15.00	EA	\$1,750.00000	\$26,250.00

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Description					
<u>Supplemental Description</u>					
STAINLESS STEEL FIXED BEARING ASSEMBLY					
0059	507(B) 6174	20.00	EA	\$1,500.00000	\$30,000.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY					
0060	509 6152	972.00	SY	\$30.00000	\$29,160.00
SPECIAL CONCRETE FINISH					
0061	509(A) 1326	279.60	CY	\$620.00000	\$173,352.00
CLASS AA CONCRETE					
0062	509(B) 1328	264.80	CY	\$650.00000	\$172,120.00
CLASS A CONCRETE					
0063	510(C) 6138	1,164.00	SY	\$130.00000	\$151,320.00
SLOPE WALL (5")					
0064	511(A) 1332	1,740.00	LB	\$1.00000	\$1,740.00
REINFORCING STEEL					
0065	511(B) 6010	142,410.00	LB	\$1.00000	\$142,410.00
EPOXY COATED REINFORCING STEEL					
0066	514(A) 6010	242.00	LF	\$35.00000	\$8,470.00
PILES, FURNISHED (HP 10X42)					
0067	514(A) 6011	1,316.00	LF	\$40.00000	\$52,640.00
PILES, FURNISHED (HP 12X53)					
0068	514(B) 6292	242.00	LF	\$20.00000	\$4,840.00
PILES, DRIVEN (HP 10X42)					
0069	514(B) 6294	1,316.00	LF	\$15.00000	\$19,740.00
PILES, DRIVEN (HP 12X53)					
0070	514(L) 6220	1.00	EA	\$400.00000	\$400.00
PILE SPLICE, H-PILE (NON-BIDDABLE)					
0071	515(A) 6013	1,252.00	SY	\$4.00000	\$5,008.00
WATER REPELLENT (VISUALLY INSPECTED)					
0072	516(A) 6100	515.00	LF	\$1,500.00000	\$772,500.00
DRILLED SHAFTS 84" DIAMETER					
0073	516(C) 6200	3.00	EA	\$3,000.00000	\$9,000.00
CROSSHOLE SONIC LOGGING					
0074	523(A) 6550	82.00	LF	\$4.00000	\$328.00
SEALER CRACK PREPARATION					
0075	523(B) 6560	0.60	GAL	\$150.00000	\$90.00
SEALER RESIN					
0076	542 4600	1.00	LSUM	\$7,700.00000	\$7,700.00

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<u>Description</u>					
<u>Supplemental Description</u>					
(PL)INSTALLATION OF BRIDGE ITEMS					
0077	613(H) 6204	206.00	LF	\$20.00000	\$4,120.00
6" PERFORATED PIPE UNDERDRAIN ROUND					
0078	613(I) 6207	80.00	LF	\$20.00000	\$1,600.00
6" NON-PERF. PIPE UNDERDRAIN RND.					
0079	619(D) 1397	1.00	LSUM	\$100,000.00000	\$100,000.00
REMOVAL OF EXISTING BRIDGE STRUCTURE					

Total for Group 0200:\$2,407,471.60

Group 0201: Bridge B

0080	501(B) 1307	160.00	CY	\$23.50000	\$3,760.00
SUBSTRUCTURE EXCAVATION COMMON					
0081	501(G) 6309	150.80	CY	\$157.00000	\$23,675.60
CLSM BACKFILL					
0082	504(A) 1304	273.40	SY	\$195.00000	\$53,313.00
APPROACH SLAB					
0083	504(B) 1305	1,174.20	SY	\$5.00000	\$5,871.00
SAW-CUT GROOVING					
0084	504(C) 6250	84.00	LF	\$350.00000	\$29,400.00
SEALED EXPANSION JOINT					
0085	504(E) 6190	640.00	LF	\$90.00000	\$57,600.00
42" F-SHAPED PARAPET					
0086	506(A) 4050	289,480.00	LB	\$1.80000	\$521,064.00
STRUCTURAL STEEL M270 GRADE 50W					
0087	507(A) 6170	15.00	EA	\$1,750.00000	\$26,250.00
STAINLESS STEEL FIXED BEARING ASSEMBLY					
0088	507(B) 6174	20.00	EA	\$1,500.00000	\$30,000.00
STAINLESS STEEL EXPANSION BEARING ASSEMBLY					
0089	509 6152	972.00	SY	\$30.00000	\$29,160.00
SPECIAL CONCRETE FINISH					
0090	509(A) 1326	279.60	CY	\$620.00000	\$173,352.00
CLASS AA CONCRETE					
0091	509(B) 1328	264.80	CY	\$650.00000	\$172,120.00
CLASS A CONCRETE					
0092	510(C) 6138	1,167.00	SY	\$130.00000	\$151,710.00
SLOPE WALL (5")					
0093	511(A) 1332	1,740.00	LB	\$1.00000	\$1,740.00

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<u>Description</u>					
<u>Supplemental Description</u>					
REINFORCING STEEL					
0094	511(B) 6010	142,410.00	LB	\$1.00000	\$142,410.00
EPOXY COATED REINFORCING STEEL					
0095	514(A) 6010	242.00	LF	\$35.00000	\$8,470.00
PILES, FURNISHED (HP 10X42)					
0096	514(A) 6011	1,316.00	LF	\$40.00000	\$52,640.00
PILES, FURNISHED (HP 12X53)					
0097	514(B) 6292	242.00	LF	\$20.00000	\$4,840.00
PILES, DRIVEN (HP 10X42)					
0098	514(B) 6294	1,316.00	LF	\$15.00000	\$19,740.00
PILES, DRIVEN (HP 12X53)					
0099	514(L) 6220	1.00	EA	\$400.00000	\$400.00
PILE SPLICE, H-PILE (NON-BIDDABLE)					
0100	515(A) 6013	1,252.00	SY	\$4.00000	\$5,008.00
WATER REPELLENT (VISUALLY INSPECTED)					
0101	516(A) 6100	515.00	LF	\$1,500.00000	\$772,500.00
DRILLED SHAFTS 84" DIAMETER					
0102	516(C) 6200	3.00	EA	\$3,000.00000	\$9,000.00
CROSSHOLE SONIC LOGGING					
0103	523(A) 6550	82.00	LF	\$4.00000	\$328.00
SEALER CRACK PREPARATION					
0104	523(B) 6560	0.60	GAL	\$150.00000	\$90.00
SEALER RESIN					
0105	542 4600	1.00	LSUM	\$7,700.00000	\$7,700.00
(PL)INSTALLATION OF BRIDGE ITEMS					
0106	613(H) 6204	206.00	LF	\$20.00000	\$4,120.00
6" PERFORATED PIPE UNDERDRAIN ROUND					
0107	613(I) 6207	80.00	LF	\$20.00000	\$1,600.00
6" NON-PERF. PIPE UNDERDRAIN RND.					
0108	619(D) 1397	1.00	LSUM	\$100,000.00000	\$100,000.00
REMOVAL OF EXISTING BRIDGE STRUCTURE					

Total for Group 0201:\$2,407,861.60

Group 0310: Traffic Signing & Striping

0109	804(A) 2915	5.12	CY	\$583.52000	\$2,987.62
STRUCTURAL CONCRETE					

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0110	804(B) 2916 REINFORCING STEEL	862.00	LB	\$1.75000	\$1,508.50
0111	850(A) 8110 SHEET ALUMINUM SIGNS	174.25	SF	\$20.48000	\$3,568.64
0112	850(B) 8112 EXTRUDED ALUMINUM PANEL SIGNS	482.50	SF	\$18.23000	\$8,795.98
0113	851(A) 3206 4"@13 GALV.STEEL WIDE FLANGE BEAM POST	179.12	LF	\$18.79000	\$3,365.66
0114	851(A) 3207 6"@15 GALV.STEEL WIDE FLANGE BEAM POST	94.20	LF	\$23.63000	\$2,225.95
0115	851(C) 8324 2" SQUARE TUBE POST	280.56	LF	\$6.93000	\$1,944.28
0116	856(A) 8535 TRAFFIC STRIPE(MULTI-POLY.)(6" WIDE)	22,839.00	LF	\$0.61000	\$13,931.79

Total for Group 0310:\$38,328.42

Group 0340: Traffic Control

0117	857(C) 8851 REMOVABLE PAVEMENT MARKING TAPE(4" WIDE)	37,283.00	LF	\$0.70000	\$26,098.10
0118	857(F) 8006 PAVEMENT MARKING REMOVAL(TRAFFIC STRIPE)	28,111.00	LF	\$0.25000	\$7,027.75
0119	871(B) 8705 (SP)CONST.ZONE IMPACT ATTEN.	1,545.00	SD	\$5.00000	\$7,725.00
0120	877(B) 8484 DELIVER PORTABLE LONGITUDINAL BARRIER	5,863.00	LF	\$20.00000	\$117,260.00
0121	877(C) 8486 RELOCATION OF PORTABLE LONGITUDINAL BARRIER	6,745.00	LF	\$3.00000	\$20,235.00
0122	878(B) 8487 MODULAR GLARE SCREEN (TEMPORARY)	16,272.00	SD	\$0.20000	\$3,254.40
0123	880(A) 8812 ARROW DISPLAY(TYPE C)	720.00	SD	\$3.00000	\$2,160.00
0124	880(B) 8818 CONSTRUCTION SIGNS 0 TO 6.25 SF	12,616.00	SD	\$0.40000	\$5,046.40
0125	880(B) 8821 CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF	6,964.00	SD	\$1.20000	\$8,356.80
0126	880(B) 8824 CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF	22,928.00	SD	\$1.50000	\$34,392.00

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<u>Supplemental Description</u>					
0127	880(C) 8842	2,172.00	SD	\$1.00000	\$2,172.00
CONSTRUCTION BARRICADES(TYPE III)					
0128	880(C) 8848	3,120.00	SD	\$1.00000	\$3,120.00
WING BARRICADES					
0129	880(E) 8860	18,504.00	SD	\$0.35000	\$6,476.40
WARNING LIGHTS(TYPE A)					
0130	880(F) 8878	67,635.00	SD	\$0.50000	\$33,817.50
DRUMS					
0131	880(L) 8920	1,700.00	HR	\$70.00000	\$119,000.00
(SP) TRAFFIC SURVEILLANCE, OHP (NON-BIDDABLE)					
0132	882(A) 8306	2,532.00	SD	\$15.00000	\$37,980.00
PORT.CHANGEABLE MESSAGE SIGN					

Total for Group 0340:\$434,121.35

Group 0350: Traffic Cable Barrier

0133	509(A) 0319	15.12	CY	\$500.00000	\$7,560.00
CLASS AA CONCRETE					
0134	619(B) 5190	3,028.00	LF	\$6.00000	\$18,168.00
REMOVAL OF CABLE BARRIER					
0135	628 5180	2,883.00	LF	\$8.00000	\$23,064.00
INSTALLATION OF CABLE BARRIER SYSTEM					
0136	628(C) 5110	2.00	EA	\$2,500.00000	\$5,000.00
END ANCHORS					

Total for Group 0350:\$53,792.00

Group 0600: Staking

0137	642(B) 0096	1.00	LSUM	\$35,000.00000	\$35,000.00
CONSTRUCTION STAKING LEVEL II					

Total for Group 0600:\$35,000.00

Group 0640: Construction

0138	220 2800	1.00	LSUM	\$5,000.00000	\$5,000.00
SWPPP DOCUMENTATION AND MANAGEMENT					
0139	641 1399	1.00	LSUM	\$390,000.00000	\$390,000.00
MOBILIZATION					

Total for Group 0640:\$395,000.00