June 2, 2016

SUBJECT: FAI Route 90/94/290 (I-90/94/290)

Project ACNHPP-000V(063)

Section 2014-004R&B

Cook County

Contract No. 60X78

Item No. 16, June 10, 2016 Letting

Addendum A

#### NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

- 1. Replaced the Schedule of Prices
- 2. Revised page vi of the Talbe of Contents to the Special Provisions
- 3. Revised pages 64, 65 and 259-266 of the Special Provisions
- 4. Added page 432 to the Special Provisions
- 5. Revised sheets 1, 9, 10, 19, 166, 278-281, 287-292, 294, 295, 297, 329, 331, 332, 334-336, 340, 364 & 366 of the Plans
- 6. Added sheets 334A, 340A, 344A & 344B to the Plans

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Maureen M. Addis, P.E.

Acting Engineer of Design and Environment

By: Ted B. Walschleger, P. E.

Tett Daluklyon P.E.

**Engineer of Project Management** 

cc: John Fortmann, Region 1, District 1; Tim Kell; D. Carl Puzey; Estimates

MS/ck

State Job # - C-91-189-14

County Name - COOK- - Code - 31 - -

District - 1 - -

Section Number - 2014-004R&B

**Project Number** 

ACNHPP-000V/063/

\*REVISED: JUNE 1, 2016

Route

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0320022	TEMP SPPRT SYSTEM RP	EACH	6.000				
X0320026	BASE F/SGN SUPPRT SPL	EACH	4.000				
X0320027	TEMP DRAINAGE SYS N2	L SUM	1.000				
X0320028	RELOC EXIST CCTV CAMS	L SUM	1.000				
X0320029	TEMP CH LK FENCE 6 FT	FOOT	392.000				
X0322215	CLEAN BRG SCUP/DWNSPT	EACH	12.000				
X0322441	DIG LOOP DET SEN U 4C	EACH	4.000				
X0322442	TONE EQ 3 FRE REC PRG	EACH	14.000				
X0322443	TONE EQ 3 FREQ TR PRG	EACH	14.000				
X0322444	TONE EQ POWER SUPPLY	EACH	4.000				
X0322445	TONE EQ MOUNT FRAME	EACH	2.000				
X0323553	ORN FENCE WRT IRON	FOOT	97.000				
X0324599	ROD AND CLEAN EX COND	FOOT	1,240.000				
X0324911	REPL DECAL W/NEW LM D	EACH	3.000				
X0325087	VIDEO TAPING MN DRAIN	FOOT	3,598.000				

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Route

Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
X0325207	TV INSPECT OF SEWER	FOOT	2,004.000				
X0325318	LT WT CELL CONC FILL	CU YD	2,008.000				
X0325349	TEMP CON BAR (PERM)	FOOT	550.000				
X0326801	COMBND SEWR TO BE CLN	FOOT	115.000				
X0326935	CROSSHOLE SONIC LOG	EACH	4.000				
X0327004	TEMP WP 60 CL 4	EACH	2.000				
X0327117	ATMS SYS INTEGRATION	L SUM	1.000				
X0327176	WOOD GRDRAIL REM	FOOT	12.000				
X0327357	CONSTRN VBRN MONITRNG	L SUM	1.000				
X0327606	FIBER OPT SPL-LATERAL	EACH	1.000				
X0327607	FIBER OPT SPL-MAINLN	EACH	1.000				
X0327614	COMB SEW REM 12	FOOT	19.000				
X0327616	MAINT ITS DURG CONSTR	CAL MO	24.000				
X0327650	TEMP DRAINAGE SYS N1	L SUM	1.000				
X0327696	BUDG ALLOW TIMLAP CAM	L SUM	1.000				

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**FAI 94** 

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
X0327751	LIGHT PROT IND LOOP D	EACH	2.000				
X0327773	ACCESS DOOR	EACH	1.000				
X0370080	COMB C&G B V.12(CDOT)	FOOT	63.000				
X0370135	CONC CURB TB SPL CDOT	FOOT	15.000				
X0370185	COMB SEW ESVCP 12CDOT	FOOT	173.000				
X1200008	FO PATCH PANEL, 96F	EACH	1.000				
X1400002	THERM MAG CCT BREAKER	EACH	1.000				
X1400003	TEMP WP 80 CL4 15MA	EACH	11.000				
X1400033	CAB HSG EQ ESP 4 CFM	EACH	1.000				
X5030305	CONC WEARING SURF 5	SQ YD	175.000				
X5040100	PREC BRIDGE APP SLAB	SQ FT	1,568.000				
X5210120	HLMR BRG GUID EXP 250	EACH	8.000				
X5210150	HLMR BRG GUID EXP 400	EACH	16.000				
X5210160	HLMR BRG GUID EXP 450	EACH	20.000				
X5509900	ABANDON FILL SS	FOOT	127.000				

**NUMBER -**

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Route

ltem Number	Pay Item Description	Unit of Measure	Quantity	Х	Unit Price	=	Total Price
X5537800	SS CLEANED 12	FOOT	1,470.000				
X5538000	SS CLEANED 18	FOOT	77.000				
X5538400	SS CLEANED 30	FOOT	43.000				
X5860110	GRANULAR BACKFILL STR	CU YD	180.000				
X6028000	MAN RECONST SPL	EACH	1.000				
X6431120	REM IMP ATTEN SM	EACH	2.000				
X6640200	TEMP CH LK FENCE	FOOT	1,128.000				
X6640535	CH LK FENCE 6 ATT STR	FOOT	183.000				
X6640704	TEMP CL FENCE SCRN 4	FOOT	259.000				
X6700410	ENGR FLD OFF A SPL	CAL MO	24.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	730.000				
X7035100	TEMP EPOXY PVT MK L&S	SQ FT	127.000				
X7035104	TEMP EPOXY PVT MK L4	FOOT	53,068.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
X7035105	TEMP EPOXY PVT MK L5	FOOT	8,544.000				
X7035106	TEMP EPOXY PVT MK L6	FOOT	797.000				
X7035108	TEMP EPOXY PVT MK L8	FOOT	21,792.000				
X7035112	TEMP EPOXY PVT MK L12	FOOT	1,924.000				
X7040125	PIN TEMP CONC BARRIER	EACH	1,260.000				
X7830072	GRV RCSD PVT MRKG 6	FOOT	1,020.000				
X8100863	INTERCEPT EX CONDUIT	EACH	9.000				
X8130112	JUNCTION BOX T J	EACH	1.000				
X8131168	JUN BX NM ES 21X11X08	EACH	4.000				
X8210305	PROT-MAIN UNPASS LTG	L SUM	1.000				
X8440102	RELOC EX LUMINAIRE	EACH	8.000				
X8710035	FIB OPT CBL 96F SM	FOOT	3,174.000				
X8710036	FIB OPT CBL 12F SM	FOOT	125.000				
X8730249	ELCBL C 19 6/C	FOOT	608.000				
X8730312	EC C LEAD 18 4C TW SH	FOOT	12,635.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
X8850109	PREF INDUCTION LOOP	FOOT	589.000				
X8950425	REMOV TRAF SURV EQUIP	L SUM	1.000				
Z0001899	JACK & REM EX BEARING	EACH	158.000				
*REV Z0001905	STRUCT STEEL REPAIR	POUND	18,774.000				
Z0004002	BOLLARDS	EACH	9.000				
Z0004552	APPROACH SLAB REM	SQ YD	150.000				
Z0006016	BR DK LTX C OLY 2 3/4	SQ YD	613.000				
Z0007126	HANDRAIL REMOVAL	FOOT	62.500				
Z0010614	CLEAN EX MAN/HAND	EACH	1.000				
Z0012146	BR DECK SCAR 2 3/4	SQ YD	613.000				
*REV Z0012754	STR REP CON DP = < 5	SQ FT	1,574.000				
Z0012755	STR REP CON DP OVER 5	SQ FT	48.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0016001	DECK SLAB REP (FD-T1)	SQ YD	2.000				
Z0016002	DECK SLAB REP (FD-T2)	SQ YD	19.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
Z0018002	DRAINAGE SCUPPR DS-11	EACH	9.000				
Z0018004	DRAINAGE SCUPPR DS-12	EACH	21.000				
Z0018800	DRAINAGE SYSTEM	L SUM	1.000				
Z0019000	DR HOLE THRU RET WALL	EACH	1.000				
Z0019600	DUST CONTROL WATERING	UNIT	14.100				
Z0021902	SILICONE JT SEAL 1/2	FOOT	75.000				
Z0021904	SILICONE JT SEAL 1	FOOT	21.000				
Z0022800	FENCE REMOVAL	FOOT	857.000				
Z0030850	TEMP INFO SIGNING	SQ FT	943.000				
Z0033020	LUM SFTY CABLE ASMBLY	EACH	14.000				
Z0033028	MAINTAIN LIGHTING SYS	CAL MO	24.000				
Z0034212	MECH ST EARTH R WL SP	SQ FT	1,650.000				
Z0034390	MODULAR EXPAN JT 6	FOOT	209.000				
Z0046304	P UNDR FOR STRUCT 4	FOOT	77.000				
Z0048665	RR PROT LIABILITY INS	L SUM	1.000				

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Route FAI 90

FAI 94

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
Z0062456	TEMP PAVEMENT	SQ YD	340.000				
Z0073100	TEMP SHORING	EACH	14.000				
Z0076600	TRAINEES	HOUR	1,500.000		0.800		1,200.00
Z0076604	TRAINEES TPG	HOUR	1,500.000		15.000		22,500.00
20100110	TREE REMOV 6-15	UNIT	42.000				
20101000	TEMPORARY FENCE	FOOT	120.000				
20101100	TREE TRUNK PROTECTION	EACH	4.000				
20101300	TREE PRUN 1-10	EACH	4.000				
20101400	NITROGEN FERT NUTR	POUND	2.000				
20101600	POTASSIUM FERT NUTR	POUND	2.000				
20101700	SUPPLE WATERING	UNIT	0.100				
20200100	EARTH EXCAVATION	CU YD	1,455.000				
20201200	REM & DISP UNS MATL	CU YD	245.000				
20800150	TRENCH BACKFILL	CU YD	233.400				
21101615	TOPSOIL F & P 4	SQ YD	7,010.000				

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**FAI 94** 

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
21301072	EXPLOR TRENCH 72	FOOT	100.000				
25000210	SEEDING CL 2A	ACRE	1.500				
25000400	NITROGEN FERT NUTR	POUND	130.000				
25000600	POTASSIUM FERT NUTR	POUND	130.000				
25100115	MULCH METHOD 2	ACRE	1.500				
25100630	EROSION CONTR BLANKET	SQ YD	7,010.000				
28000250	TEMP EROS CONTR SEED	POUND	2,803.000				
28000400	PERIMETER EROS BAR	FOOT	3,667.000				
28000510	INLET FILTERS	EACH	85.000				
28100101	STONE RIPRAP CL A1	SQ YD	71.000				
28100107	STONE RIPRAP CL A4	SQ YD	205.000				
28200200	FILTER FABRIC	SQ YD	276.000				
30300112	AGG SUBGRADE IMPR 12	SQ YD	450.000				
31101200	SUB GRAN MAT B 4	SQ YD	908.000				
40201000	AGGREGATE-TEMP ACCESS	TON	250.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
40603335	HMA SC "D" N50	TON	87.000				
40700100	BIT MATLS TACK CT	POUND	273.000				
40800029	BIT MATLS TACK CT	POUND	768.000				
42001300	PROTECTIVE COAT	SQ YD	1,095.000				
42300400	PCC DRIVEWAY PAVT 8	SQ YD	12.000				
42400200	PC CONC SIDEWALK 5	SQ FT	2,019.000				
44000100	PAVEMENT REM	SQ YD	124.000				
44000200	DRIVE PAVEMENT REM	SQ YD	12.000				
44000300	CURB REM	FOOT	35.000				
44000500	COMB CURB GUTTER REM	FOOT	83.000				
44000600	SIDEWALK REM	SQ FT	2,121.000				
44001980	CONC BARRIER REMOV	FOOT	694.000				
44004250	PAVED SHLD REMOVAL	SQ YD	426.000				
44201723	CL D PATCH T4 6	SQ YD	1,512.000				
50100300	REM EXIST STRUCT N1	EACH	1.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
50100400	REM EXIST STRUCT N2	EACH	1.000				
*REV 50102400	CONC REM	CU YD	194.800				
50104720	REM EXIST CONC DECK	EACH	3.000				
*REV 50157300	PROTECTIVE SHIELD	SQ YD	10,967.000				
50200100	STRUCTURE EXCAVATION	CU YD	1,403.000				
50200450	REM/DISP UNS MATL-STR	CU YD	720.000				
50300225	CONC STRUCT	CU YD	1,019.800				
50300254	RUBBED FINISH	SQ FT	895.000				
*REV 50300255	CONC SUP-STR	CU YD	2,755.300				
*REV 50300260	BR DECK GROOVING	SQ YD	8,741.000				
50300285	FORM LINER TEX SURF	SQ FT	3,022.000				
*REV 50300300	PROTECTIVE COAT	SQ YD	10,373.000				
50500105	F & E STRUCT STEEL	L SUM	1.000				
50500505	STUD SHEAR CONNECTORS	EACH	39,456.000				
50800105	REINFORCEMENT BARS	POUND	217,790.000				

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	em mber	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
*REV	50800205	REINF BARS, EPOXY CTD	POUND	843,895.000				
	50800515	BAR SPLICERS	EACH	6,306.000				
	50800530	MECHANICAL SPLICERS	EACH	363.000				
	51100100	SLOPE WALL 4	SQ YD	164.000				
	51500100	NAME PLATES	EACH	1.000				
	51603000	DRILLED SHAFT IN SOIL	CU YD	1,076.000				
	51604000	DRILLED SHAFT IN ROCK	CU YD	31.000				
	52000110	PREF JT STRIP SEAL	FOOT	127.000				
	52100010	ELAST BEARING ASSY T1	EACH	89.000				
	52100020	ELAST BEARING ASSY T2	EACH	82.000				
	52100030	ELAST BEARING ASSY T3	EACH	14.000				
	52100510	ANCHOR BOLTS 3/4	EACH	114.000				
	52100520	ANCHOR BOLTS 1	EACH	320.000				
	52100530	ANCHOR BOLTS 1 1/4	EACH	34.000				
	52100540	ANCHOR BOLTS 1 1/2	EACH	40.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
52200020	TEMP SOIL RETEN SYSTM	SQ FT	3,327.000				
54210182	PIPE ELBOW 12	EACH	1.000				
54213657	PRC FLAR END SEC 12	EACH	1.000				
54248510	CONCRETE COLLAR	CU YD	2.600				
550A0050	STORM SEW CL A 1 12	FOOT	106.000				
550A0340	STORM SEW CL A 2 12	FOOT	247.000				
550A0430	STORM SEW CL A 2 30	FOOT	65.000				
55100500	STORM SEWER REM 12	FOOT	321.000				
55101400	STORM SEWER REM 30	FOOT	61.000				
58700300	CONCRETE SEALER	SQ FT	15,923.000				
59000200	EPOXY CRACK INJECTION	FOOT	6.000				
59100100	GEOCOMPOSITE WALL DR	SQ YD	79.000				
60100060	CONC HDWL FOR P DRAIN	EACH	1.000				
60108100	PIPE UNDERDRAIN 4 SP	FOOT	24.000				
60200205	CB TA 4 DIA T1F CL	EACH	8.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
60201310	CB TA 4 DIA T20F&G	EACH	1.000				
60203905	CB TA 5 DIA T1F CL	EACH	1.000				
60207005	CB TC T1F CL	EACH	4.000				
60207605	CB TC T8G	EACH	2.000				
60221100	MAN TA 5 DIA T1F CL	EACH	2.000				
60250200	CB ADJUST	EACH	5.000				
60252800	CB RECONST	EACH	13.000				
60255500	MAN ADJUST	EACH	2.000				
60257900	MAN RECONST	EACH	1.000				
60500050	REMOV CATCH BAS	EACH	11.000				
60500205	FILL CATCH BAS	EACH	2.000				
63700175	CONC BAR 1F 42HT	FOOT	500.000		-		
63700805	CONC BAR TRANS	FOOT	120.000				
63700900	CONC BARRIER BASE	FOOT	620.000				
64200116	SHOULDER RUM STRIP 16	FOOT	170.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
64300920	IMP ATTEN SU WID TL3	EACH	2.000				
66900200	NON SPL WASTE DISPOSL	CU YD	3,990.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY	EACH	8.000				
67100100	MOBILIZATION	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	730.000				
70300240	TEMP PVT MK LINE 6	FOOT	15,529.000				
70400100	TEMP CONC BARRIER	FOOT	7,587.500				
70400200	REL TEMP CONC BARRIER	FOOT	7,412.500				
70600255	IMP ATTN TEMP FRN TL2	EACH	2.000				
70600260	IMP ATTN TEMP FRN TL3	EACH	12.000				
70600290	IMP ATTN TEMP SUW TL3	EACH	2.000				
70600332	IMP ATTN REL FRN TL3	EACH	5.000				
72000100	SIGN PANEL T1	SQ FT	80.000				
72000200	SIGN PANEL T2	SQ FT	90.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
72000300	SIGN PANEL T3	SQ FT	672.000				
72100100	SIGN PANEL OVERLAY	SQ FT	289.000				
72400100	REMOV SIN PAN ASSY TA	EACH	2.000				
72400200	REMOV SIN PAN ASSY TB	EACH	3.000				
72400310	REMOV SIGN PANEL T1	SQ FT	5.000				
72400320	REMOV SIGN PANEL T2	SQ FT	50.000				
72400330	REMOV SIGN PANEL T3	SQ FT	632.000				
72400710	RELOC SIGN PANEL T1	SQ FT	6.000				
72900100	METAL POST TY A	FOOT	60.000				
73300300	OVHD SIN STR-SPAN T3A	FOOT	82.000				
73600100	REMOV OH SIN STR-SPAN	EACH	1.000				
78000100	THPL PVT MK LTR & SYM	SQ FT	84.000				
78000200	THPL PVT MK LINE 4	FOOT	90.000				
78000300	THPL PVT MK LINE 5	FOOT	700.000				
78000400	THPL PVT MK LINE 6	FOOT	242.000				

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**FAI 94** 

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78000650	THPL PVT MK LINE 24	FOOT	258.000				
78003120	PREF PL PM TB LINE 5	FOOT	1,020.000				
78005110	EPOXY PVT MK LINE 4	FOOT	5,954.000				
78005120	EPOXY PVT MK LINE 5	FOOT	3,855.000				
78005140	EPOXY PVT MK LINE 8	FOOT	235.000				
78005150	EPOXY PVT MK LINE 12	FOOT	211.000				
78009000	MOD URETH PM LTR-SYM	SQ FT	127.000				
78009004	MOD URETH PM LINE 4	FOOT	6,706.000				
78009005	MOD URETH PM LINE 5	FOOT	1,039.000				
78009008	MOD URETH PM LINE 8	FOOT	6,869.000				
78009012	MOD URETH PM LINE 12	FOOT	508.000				
78100100	RAISED REFL PAVT MKR	EACH	182.000				
78100105	RAISED REF PVT MKR BR	EACH	186.000				
78100300	REPLACEMENT REFLECTOR	EACH	325.000		-		
78200011	BARR WALL REF TYPE C	EACH	1,333.000				

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Route

ltem Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
78300100	PAVT MARKING REMOVAL	SQ FT	62,261.000				
78300200	RAISED REF PVT MK REM	EACH	155.000				
81028170	UNDRGRD C GALVS 1	FOOT	10.000				
81028200	UNDRGRD C GALVS 2	FOOT	60.000				
81028240	UNDRGRD C GALVS 4	FOOT	20.000				
81028350	UNDRGRD C PVC 2	FOOT	260.000				
81028370	UNDRGRD C PVC 3	FOOT	130.000				
81100200	CON AT ST 3/4 GALVS	FOOT	450.000				
81100320	CON AT ST 1 PVC GS	FOOT	1,030.000				
81100420	CON AT ST 1.25 GS PVC	FOOT	275.000				
81100605	CON AT ST 2 PVC GALVS	FOOT	3,005.000				
81100800	CON AT ST 3 GALVS	FOOT	56.000				
81100805	CON AT ST 3 PVC GALVS	FOOT	1,569.000				
81200230	CON EMB STR 2 PVC	FOOT	3,086.000				
81300220	JUN BX SS AS 6X6X4	EACH	19.000				

State Job # - C-91-189-14

County Name - COOK- - Code - 31 - -

District - 1 - -

Section Number - 2014-004R&B

**Project Number** 

ACNHPP-000V/063/

\*REVISED: JUNE 1, 2016

Route

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81300410	JUN BX SS AS 10X8X4	EACH	13.000				
81300530	JUN BX SS AS 12X10X6	EACH	21.000				
81300830	JUN BX SS AS 18X18X8	EACH	19.000				
81400200	HD HANDHOLE	EACH	4.000				
81603081	UD 3#2#4GXLPUSE 1.5 P	FOOT	1,885.000				
81702110	EC C XLP USE 1C 10	FOOT	5,665.000				
81702130	EC C XLP USE 1C 6	FOOT	2,090.000				
81702140	EC C XLP USE 1C 4	FOOT	8,030.000				
81702150	EC C XLP USE 1C 2	FOOT	1,110.000				
81800410	A CBL 4-1C4 MESS WIRE	FOOT	1,705.000				
82102400	LUM SV HOR MT 400W	EACH	25.000				
82107100	UNDERPAS LUM 70W HPS	EACH	3.000				
82107200	UNDERPAS LUM 100W HPS	EACH	12.000				
83050715	LTPA 47.5MH 6DA	EACH	1.000				
83050805	LT P A 47.5MH 12DA	EACH	1.000				

State Job # - C-91-189-14

County Name - COOK- -

Code - 31 - -

District - 1 - -

Section Number - 2014-004R&B

**Project Number** 

ACNHPP-000V/063/

\*REVISED: JUNE 1, 2016

Route

Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
83050915	LT P A 47.5MH 2-6DA	EACH	6.000				
84100110	REM TEMP LIGHT UNIT	EACH	2.000				
84200500	REM LT UNIT SALV	EACH	34.000				
87000885	ECA C XLPTC 2C 6 8	FOOT	1,028.000				
87200400	SPAN WIRE	FOOT	40.000				
87301900	ELCBL C EGRDC 6 1C	FOOT	17.000				
87800200	CONC FDN TY D	FOOT	5.000				
87900205	DRILL EX HD HANDHOLE	EACH	1.000				
89502300	REM ELCBL FR CON	FOOT	5,430.000				
89502350	REM & RE ELCBL FR CON	FOOT	900.000				

CONTRACT NUMBER	60X78	
THIS IS THE TOTAL BID		¢

#### NOTES:

- 1. Each PAY ITEM should have a UNIT PRICE and a TOTAL PRICE.
- 2. The UNIT PRICE shall govern if no TOTAL PRICE is shown or if there is a discrepancy between the product of the UNIT PRICE multiplied by the QUANTITY.

  3. If a UNIT PRICE is omitted, the TOTAL PRICE will be divided by the QUANTITY
- in order to establish a UNIT PRICE.
- 4. A bid may be declared UNACCEPTABLE if neither a unit price nor a total price is shown.

WEEKLY DBE TRUCKING REPORTS (BDE)	408
FUEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)	409
STEEL COST ADJUSTMENT (BDE) (RETURN FORM WITH BID)	413
APPENDIX A – STORM WATER POLLUTION PREVENTION PLAN	417
BUDGETARY ALLOWANCE FOR TIME-LAPSE CAMERA	432

#### TRAFFIC CONTROL AND PROTECTION (ARTERIALS)

Effective: February 1, 1996 Revised: March 1, 2011

Specific traffic control plan details and Special Provisions have been prepared for this contract. This work shall include all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove all traffic control devices required as indicated in the plans and as approved by the Engineer.

When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

<u>Method of Measurement</u>: All traffic control (except Traffic Control and Protection (Expressways)) and temporary pavement markings) indicated on the traffic control plan details and specified in the Special Provisions will be measured for payment on a lump sum basis.

<u>Basis of Payment</u>: All traffic control and protection will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL).

Temporary pavement markings will be paid for separately unless shown on a Standard.

#### SPEED DISPLAY TRAILER (D1)

Effective: April 1, 2015 Revised: April 1, 2016

Add the following to Article 701.15 of the Standard Specifications:

"(m) Speed Display Trailer. A speed display trailer shall be utilized on freeways and expressways as part of Highway Standard 701400. The trailer shall be placed on the right hand side of the roadway adjacent to, or within 100 ft. (30 m) beyond, the first work zone speed limit sign.

Whenever the speed display trailer is not in use, it shall be considered non-operating equipment and shall be stored according to Article 701.11."

Add the following to Article 701.20 of the Standard Specifications:

"(k) Revised. "Speed Display Trailer will NOT be paid for by separate pay item, but its costs shall be included in the contract unit price of the various traffic control pay items.

Add the following to Article 1106.02 of the Standard Specifications:

"(o) Speed Display Trailer. The speed display trailer shall consist of a LED speed indicator display with self-contained, one-direction radar mounted on an orange see-through trailer. The height of the display and radar shall be such that it will function and be visible when located behind concrete barrier.

The speed measurement shall be by radar and provide a minimum detection distance of 1000 ft (300 m). The radar shall have an accuracy of ±1 mile per hour.

The speed indicator display shall face approaching traffic and shall have a sign legend of "YOUR SPEED" immediately above or below the speed display. The digital speed display shall show two digits (00 to 99) in mph. The color of the changeable message legend shall be a yellow legend on a black background. The minimum height of the numerals shall be 18 in. (450 mm), and the nominal legibility distance shall be at least 750 ft (250 m).

The speed indicator display shall be equipped with a violation alert that flashes the displayed detected speed when the posted limit is exceeded. The speed indicator shall have a maximum speed cutoff. The display shall include automatic dimming for nighttime operation.

The speed indicator measurement and display functions shall be equipped with the power supply capable of providing 24 hours of uninterrupted service."

#### ROAD CONSTRUCTION REPORTING AND SIGNING FOR VEHICLE WIDTH RESTRICTIONS

#### Introduction

The intent of this policy is to provide uniform width restriction signing and reporting in order to reduce the chances of oversized vehicles, particularly those operating under blanket permits, from becoming entrapped in construction zones.

#### Construction/Maintenance Projects Requiring Over Size and Over Weight Restrictions

- a) Closures of any roadway, Rail Road crossing, Interstate or Freeway Ramps
- b) All road construction that restricts the actual measured opening to less than 17' 6".
- c) Any construction zone with characteristics that have the potential of creating delays and/or potentially hazardous conditions such as roadways with a high traffic volume or unnecessary merging situations. Any other condition that the Engineer deems necessary to ensure safety should be listed.

#### **Measuring with Restrictions**

In order to ensure state-wide uniformity, the opening shall be measured as follows:

a) Two fixed structures – Measurement shall be made between the narrowest points of the fixed structures. Fixed structures may include but are not limited to bridge railing, concrete barrier, cable rail, or quard rail.

#### MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL

<u>Description.</u> This work shall consist of preparing the design, furnishing the materials, and constructing the mechanically stabilized earth (MSE) retaining wall to the lines, grades and dimensions shown in the contract plans and as directed by the Engineer.

<u>General.</u> The MSE wall consists of a concrete leveling pad, precast concrete face panels, a soil reinforcing system, and concrete coping (when specified). The soil reinforcement shall have sufficient strength, quantity, and pullout resistance, beyond the failure surface within the lightweight fill, as required by design. The material, fabrication, and construction shall comply with this Special Provision and the requirements specified by the supplier of the wall system selected by the Contractor for use on the project.

The MSE retaining wall shall be one of the following pre-approved wall systems:

Company Name: Wall System

Earth Tec International, LLC: EarthTrac HA

Sanders Pre-Cast Concrete Systems Company: Sanders MSE Wall

Shaw Technologies: Strengthened Soil

Sine Wall, LLC: Sine Wall

SSL Construction Products: MSE Plus Vist-A-Wall Systems, LLC: Vist-A-Wall Tensar Earth Technologies : ARES Wall

The Reinforced Earth Company: GeoMega System The Reinforced Earth Company: Reinforced Earth The Reinforced Earth Company: Retained Earth

Tricon Precast: Tricon Retained Soil Tricon Precast: Tri-Web Retained Soil

Pre-approval of the wall system does not include material acceptance at the jobsite.

<u>Submittals.</u> The wall system supplier shall submit complete design calculations and shop drawings to the Engineer according to Article 1042.03(b) of the Standard Specifications no later than 90 days prior to beginning construction of the wall. No work or ordering of materials for the structure shall be done by the Contractor until the submittal has been approved in writing by the Engineer. All submittals shall be sealed by an Illinois Licensed Structural Engineer and shall include all details, dimensions, quantities and cross sections necessary to construct the wall and shall include, but not be limited to, the following items:

- (a) Plan, elevation and cross section sheet(s) for each wall showing the following:
  - (1) A plan view of the wall indicating the offsets from the construction centerline to the face of the wall at all changes in horizontal alignment. The plan view shall show the limits of soil reinforcement and stations where changes in length and/or size of reinforcement occur. The centerline shall be shown for all drainage structures or pipes behind or passing through and/or under the wall.

- (2) An elevation view of the wall indicating the elevations of the top of the panels. These elevations shall be at or above the top of exposed panel line shown on the contract plans. This view shall show the elevations of the top of the leveling pads, all steps in the leveling pads and the finished grade line. Each panel type, the number, size and length of soil reinforcement connected to the panel shall be designated. The equivalent uniform applied service (unfactored) nominal bearing pressure shall be shown for each designed wall section.
- (3) Elevation views of entire wall indicating layout of all panel types and architectural treatment and formliner.
- (4) A listing of the summary of quantities shall be provided on the elevation sheet of each wall.
- (5) Typical cross section(s) showing the limits of the reinforced fill volume included within the wall system, soil reinforcement, embankment material placed behind the fill, precast face panels, and their relationship to the right-of-way limits, excavation cut slopes, existing ground conditions and the finished grade line.
- (6) All general notes required for constructing the wall.
- (b) All details for the concrete leveling pads, including the steps, shall be shown. The top of the leveling pad shall be located at or below the theoretical top of the leveling pad line shown on the contract plans. The theoretical top of leveling pad line shall be 3.5 ft. (1.1 m) below finished grade line at the front face of the wall, unless otherwise shown on the plans.
- (c) Where concrete coping or barrier is specified, the panels shall extend up into the coping or barrier as shown in the plans. The top of the panels may be level or sloped to satisfy the top of exposed panel line shown on the contract plans. Cast-in- place concrete will not be an acceptable replacement for panel areas below the top of exposed panel line. As an alternative to cast in place coping, the Contractor may substitute a precast coping, the details of which must be included in the shop drawings and approved by the Engineer.
- (d) All panel types shall be detailed. The details shall show all dimensions necessary to cast and construct each type of panel, architectural treatment, all reinforcing steel in the panel, and the location of soil reinforcement connection devices embedded in the panels. These panel embed devices shall not be in contact with the panel reinforcement steel.

- (e) All details of the wall panels and soil reinforcement placement around all appurtenances located behind, on top of, or passing through the soil reinforced wall volume such as parapets with anchorage slabs, coping, foundations, and utilities etc. shall be clearly indicated. Any modifications to the design of these appurtenances to accommodate a particular system shall also be submitted.
- (f) When specified on the contract plans, all details of architectural panel treatment, including color, texture and form liners shall be shown.
- (g) The details for the connection between concrete panels, embed devices, and soil reinforcement shall be shown.
- (h) When pile sleeves are specified, the pile sleeve material, shape, and wall thickness shall be submitted to the Engineer for approval. It shall have adequate strength to withstand the fill pressures without collapse until after completion of the wall settlement. The annulus between the pile and the sleeve shall be as small as possible while still allowing it to be filled with loose dry sand after wall erection.

The initial submittal shall include three sets of shop drawings and one set of calculations. One set of drawings will be returned to the Contractor with any corrections indicated. After approval, the Contractor shall furnish the Engineer with ten (10) sets of corrected plan prints for distribution by the Department. No work or ordering of materials for the structure shall be done until the submittal has been approved by the Engineer.

<u>Materials.</u> The MSE walls shall conform to the supplier's standards as previously approved by the Department, and the following:

- (a) The soil reinforcing system, which includes the soil reinforcement, and all connection devices, shall be according to the following:
  - (1) Inextensible Soil Reinforcement. Steel reinforcement shall be according ASTM A 572 Grade 65 (450), ASTM A1064, ASTM A 1011 or ASTM A 463 Grade 50 (345). The steel strips shall be either epoxy coated, aluminized Type 2, or galvanized. Epoxy coatings shall be according to Article 1006.10(a)(2), except the minimum thickness of epoxy coating shall be 18 mils (457 microns). No bend test will be required. Aluminized Type 2-100 shall be according to ASTM A 463. Galvanizing shall be according to ASHTO M 111 or ASTM A 653 with touch up of damage according to ASTM A 780.
  - (2) <u>Extensible Soil Reinforcement.</u> Geosynthetic reinforcement shall be monolithically fabricated from virgin high density polyethylene (HDPE) or high tenacity polyester (HTPET) resins having the following properties verified by mill certifications:

Property for Geosynthetic Reinforcement	<u>Value</u>	<u>Test</u>
Minimum Tensile Strength	**	ASTM D 6637

<sup>\*\*</sup> as specified in the approved design calculations and shown on the shop drawings.

Property for HDPE	<u>Value</u>	<u>Test</u>
Melt Flow Rate (g/cm)	0.060 - 0.150	ASTM D 1238,
		Procedure B
Density (g/cu m)	0.941 – 0.965	ASTM D 792
Carbon Black	2% (min)	ASTM D 4218
Property for HTPET	<u>Value</u>	<u>Test</u>
Carboxyl End Group (max) (mn	nol/kg) <30	GRI-GG7
Molecular Weight (Mn)	>25,000	GRI-GG8

- (3) <u>Panel Embed/Connection Devices.</u> Panel embeds and connection devices shall be according to the following.
  - a. Metallic panel embed/connection devices and connection hardware shall be galvanized according to AASHTO M 232 and shall be according to the following.

Mesh and Loop Embeds	ASTM A1064 or ASTM A 706 Grade 60 (420)
Tie Strip Embeds	AASHTO M 270/M 270M Grade 50 (345) or
	ASTM A 1011 HSLAS Grade 50 (345) Class 2

b. Non metallic panel embed/connection devices typically used with geosynthetic soil reinforcement shall be manufactured from virgin or recycled polyvinyl chloride having the following properties:

Property for Polyvinyl Chloride	<u>Value</u>	<u>Test</u>
Heat Deflection Temperature (°F)	155 – 164	ASTM D 1896
Notched IZOD 1/8 inch @ 73°F (ft-lb/in) 4 – 12		ASTM D 256
Coefficient of Linear Exp. (in/in/°F)	3.5 - 4.5	ASTM D 696
Hardness, Shore D	79	ASTM D 2240
Property for Polypropylene	<u>Value</u>	<u>Test</u>
Melt Flow Rate (g/cm)	0.060 - 0.150	ASTM D 1238,
		Procedure B
Density (g/cu m)	0.88 - 0.92	ASTM D 792

- (b) Lightweight fill, defined as the material placed in the reinforced volume behind the wall, shall be according to the Special Provision for LIGHTWEIGHT CELLULAR CONCRETE FILL.
- (c) The geosynthetic filter material used across the panel joints shall be either a non-woven needle punch polyester or polypropylene or a woven monofilament polypropylene with a minimum width of 12 in. (300 mm) and a minimum non-sewn lap of 6 in. (150 mm) where necessary.
- (d) The bearing pads shall be rubber, neoprene, polyvinyl chloride, or polyethylene of the type and grade as recommended by the wall supplier.
- (e) All precast panels shall be manufactured with Class PC concrete according to Section 504, Article 1042.02, Article 1042.03, and the following requirements:
  - (1) The minimum panel thickness shall be 5 1/2 in. (140 mm).
  - (2) The minimum reinforcement bar cover shall be 1 1/2 in. (38 mm).
  - (3) The panels shall have a ship lap or tongue and groove system of overlapping joints between panels designed to conceal joints and bearing pads.
  - (4) The panel reinforcement shall be according to Article 1006.10(a)(2) or 1006.10(b)(1) except the welded wire fabric shall be epoxy coated according to ASTM A884.
  - (5) All dimensions shall be within 3/16 in. (5 mm).
  - (6) Angular distortion with regard to the height of the panel shall not exceed 0.2 inches in 5 ft (5 mm in 1.5 m).
  - (7) Surface defects on formed surfaces measured on a length of 5 ft. (1.5 m) shall not be more than 0.1 in. (2.5 mm).
  - (8) The panel embed/connection devices shall be cast into the facing panels with a tolerance not to exceed 1 in. (25 mm) from the locations specified on the approved shop drawings.

Unless specified otherwise, concrete surfaces exposed to view in the completed wall shall be finished according to Article 503.15(a). The back face of the panel shall be roughly screeded to eliminate open pockets of aggregate and surface distortions in excess of 1/4 in. (6 mm).

<u>Design Criteria.</u> The design shall be according to the appropriate AASHTO Design Specifications noted on the plans for Mechanically Stabilized Earth Walls except as modified herein. The wall supplier shall be responsible for all internal stability aspects of the wall design and shall supply the Department with computations for each designed wall section. The analyses of settlement, bearing capacity and overall slope stability will be the responsibility of the Department.

External loads, such as those applied through structure foundations, from traffic or railroads, slope surcharge etc., shall be accounted for in the internal stability design. The presence of all appurtenances behind, in front of, mounted upon, or passing through the wall volume such as drainage structures, utilities, structure foundation elements or other items shall be accounted for in the internal stability design of the wall.

The design of the soil reinforcing system shall be according to the applicable AASHTO or AASHTO LRFD Design Specifications for "Inextensible" steel or "Extensible" geosynthetic reinforcement criteria. The reduced section of the soil reinforcing system shall be sized to allowable stress levels at the end of a 75 year design life.

Steel soil reinforcing systems shall be protected by one of the following; epoxy coating, galvanizing or aluminizing. The design life for epoxy and aluminizing shall be assumed to be 16 years. The corrosion protection for the balance of the 75 year total design life shall be provided using a sacrificial steel thickness computed for all exposed surfaces according to the applicable AASHTO or AASHTO LRFD Design Specifications.

Geosynthetic soil reinforcing systems shall be designed to account for the strength reduction due to long-term creep, chemical and biological degradation, as well as installation damage.

To prevent out of plane panel rotations, the soil reinforcement shall be connected to the standard panels in at least two different elevations, vertically spaced no more than 30 in. (760 mm) apart.

The panel embed/soil reinforcement connection capacity shall be determined according to the applicable AASHTO or AASHTO LRFD Design Specifications.

The factor of safety for pullout resistance in the fill shall not be less than 1.5, based on the pullout resistance at 1/2 in. (13 mm) deformation. Typical design procedures and details, once accepted by the Department, shall be followed. All wall system changes shall be submitted in advance to the Department for approval.

For aesthetic considerations and differential settlement concerns, the panels shall be erected in such a pattern that the horizontal panel joint line is discontinuous at every other panel. This shall be accomplished by alternating standard height and half height panel placement along the leveling pad. Panels above the lowest level shall be standard size except as required to satisfy the top of exposed panel line shown on the contract plans.

At locations where the plans specify a change of panel alignment creating an included angle of 150 degrees or less, precast corner joint elements will be required. This element shall separate the adjacent panels by creating a vertical joint secured by means of separate soil reinforcement.

Isolation or slip joints, which are similar to corner joints in design and function, may be required to assist in differential settlements at locations indicated on the plans or as recommended by the wall supplier. Wall panels with areas greater than 30 sq. ft. (2.8 sq. m) may require additional slip joints to account for differential settlements. The maximum standard panel area shall not exceed 60 sq. ft. (5.6 sq. m).

<u>Construction.</u> The Contractor shall obtain technical assistance from the supplier during wall erection to demonstrate proper construction procedures and shall include any costs related to this technical assistance in the unit price bid for this item.

The foundation soils supporting the structure shall be graded for a width equal to or exceeding the length of the soil reinforcement. Prior to wall construction, the foundation shall be compacted with a smooth wheel vibratory roller. Any foundation soils found to be unsuitable shall be removed and replaced, as directed by the Engineer, and shall be paid for separately according to Section 202.

When structure excavation is necessary, it shall be made and paid for according to Section 502 except that the horizontal limits for structure excavation shall be from the rear limits of the soil reinforcement to a vertical plane 2 ft. (600 mm) from the finished face of the wall.

The depth shall be from the top of the original ground surface to the top of the leveling pad. The additional excavation necessary to place the concrete leveling pad will not be measured for payment but shall be included in this work.

The concrete leveling pads shall have a minimum thickness of 6 in. (150 mm) and shall be placed according to Section 503.

As fill material is placed behind a panel, the panel shall be maintained in its proper inclined position according to the supplier specifications and as approved by the Engineer. Vertical tolerances and horizontal alignment tolerances shall not exceed 3/4 in. (19 mm) when measured along a 10 ft. (3 m) straight edge. The maximum allowable offset in any panel joint shall be 3/4 in. (19 mm). The overall vertical tolerance of the wall, (plumbness from top to bottom) shall not exceed 1/2 in. per 10 ft. (13 mm per 3 m) of wall height. The precast face panels shall be erected to insure that they are located within 1 in. (25 mm) from the contract plan offset at any location to insure proper wall location at the top of the wall. Failure to meet this tolerance may cause the Engineer to require the Contractor to disassemble and re-erect the affected portions of the wall. A 3/4 in. (19 mm) joint separation shall be provided between all adjacent face panels to prevent direct concrete to concrete contact. This gap shall be maintained by the use of bearing pads and/or alignment pins.

The back of all panel joints shall be covered by a geotextile filter material attached to the panels with a suitable adhesive. No adhesive will be allowed directly over the joints

The lightweight fill and embankment placement shall closely follow the erection of each lift of panels. At each soil reinforcement level, the fill material should be roughly leveled and compacted before placing and attaching the soil reinforcing system. The soil reinforcement and the maximum lift thickness shall be placed according to the supplier's recommended procedures except, the lifts for lightweight fill shall not exceed 10 in. (255 mm) loose measurement or as approved by the Engineer. Embankment shall be constructed according to Section 205.

<u>Method of Measurement.</u> Mechanically Stabilized Earth Retaining Wall, Special will be measured for payment in square feet (square meters). The MSE retaining wall will be measured from the top of exposed panel line to the theoretical top of leveling pad line for the length of the wall as shown on the contract plans.

<u>Basis of Payment.</u> This work, except the placement of the Lightweight Cellular Concrete Fill within the soil reinforced wall volume shown on the approved shop drawings, precast face panels, architectural treatment, soil reinforcing system, concrete leveling pad, soil reinforcing system attached to existing North and East retaining walls and accessories will be paid for at the contract unit price per square foot (square meter) for MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL.

Furnishing and placing Lightweight Cellular Concrete Fill shall be as measured and paid in accordance with the special provision LIGHTWEIGHT CELLULAR CONCRETE FILL.

Other concrete appurtenances such as coping, anchorage slabs, parapets, abutment caps, etc. will not be included in this work, but will be paid for as specified elsewhere in this contract, unless otherwise noted on the plans.

Excavation necessary to place the fill for the MSE wall shall be paid for as STRUCTURE EXCAVATION and/or ROCK EXCAVATION FOR STRUCTURES as applicable, according to Section 502.

#### **BUDGETARY ALLOWANCE FOR TIME-LAPSE CAMERA**

<u>Description</u>: This item is to establish a budget account to allocate funds for the payment of providing continuous operation of an existing Time-Lapse Camera System for the documentation of the Circle Interchange Construction Project. A budgetary allowance has been established since the final cost of this work is unknown at the time of Letting.

The work under this Special Provision includes the coordination with camera equipment provided under a previous contract (60W30), recurring charges to provide the same level of current service, adjacent contract(s), and coordination with existing CCTV equipment as describe herein, including adjustments of or supplements to the equipment as may be required.

The existing camera system consists of a 12 megapixel camera furnished, installed and hosted by EARTHCAM. The contractor shall coordinate the continuation of payments for the camera system with the existing contractor for contract 60W30.

The contractor shall be responsible for making payments to EARTHCAM beginning with the August 2016 payment.

This item shall be bid at a price of \$17,000.00

Basis of Payment. This item shall be paid for at the contract lump sum price or fraction thereof for BUDGETARY ALLOWANCE FOR TIME-LAPSE CAMERA, which shall include all work as described herein.