



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

January 14, 2015

SUBJECT: FAP Route 745/FAP Route 310 (IL 104/US 67)
Project ACNHPP-ACF-0745(305)
Section 109RS-6, 123RS-3, 123B-2, ETC
Pike and Morgan Counties
Contract No. 72B58
Item No. 62, January 30, 2015 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 Table of Contents to the Special Provisions
3. Revised pages 7, 286, 299, 308, 309, 311, 312, 380, 440-449, 510-520 and 569 of the Special Provisions
4. Added pages 587-595 to the Special Provisions
5. Revised sheets 12, 18-20, 28, 33A, 330, 331, 357, 383-385, 451, 468, 488, 489, 496, 497, 529, 564, 578, 590, 591, 629, 631, 634, 635 and 637-639.

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,

John D. Baranzelli, P.E.
Acting Engineer of Design and Environment

A handwritten signature in black ink, appearing to read "Ted B. Walschleger" with a small "P.E." to the right.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: Roger Driskell, Region 4, District 6; Tim Kell; D. Carl Puzey; Estimates

MS/kf

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 72B58

State Job # - C-96-016-08
 County Name - MORGAN- PIKE-
 Code - 137 - 149 -
 District - 6 - 6 -
 Section Number - 109RS-6, 123RS-3, 123B-2, ETC

Project Number
 ACNHPP-ACF-0745/305/
 *REVISED: JANUARY 7, 2015

Route
 FAP 745
 FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
XX005688	SS DIP CL 52 8	FOOT	88.000				
XX005691	SS DIP CL 52 18	FOOT	264.000				
*ADD XZ193505	VERTICAL CL GAUGE	EACH	2.000				
X0300864	MAINT OF NAVIGATION	L SUM	1.000				
X0301847	WATER TRANSPORT- ENGR	CAL MO	48.000				
X0322936	REMOV EX FLAR END SEC	EACH	3.000				
X0322938	TEMPORARY END SECTION	EACH	4.000				
X0323716	ACCESS GATE DOUBLE 30	EACH	2.000				
X0324044	EROS CON TEMP P SL DR	EACH	12.000				
X0326654	ORNAM LIGHT UNIT COMP	EACH	18.000				
X0326694	PLUG EX STORM SEWERS	CU YD	4.000				
X0326911	TRANSVERSE DRAINS COM	EACH	9.000				
X0327000	TEMP CONN EX STRM SEW	EACH	1.000				
X0327357	CONSTRN VBRN MONITRNG	L SUM	1.000				
X0327776	LT P A 20MH 4DA	EACH	4.000				

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X0327778	HANGER ASSEMBLY ARCH	L SUM	1.000				
X0327779	GAS UTILITY SERV CONN	L SUM	1.000				
X0327781	TEMPORARY BERM	CU YD	1,500.000				
X0327783	REMOVAL OF TEMP BERM	CU YD	1,500.000				
X0327788	C I PIPE AT TO STR 10	FOOT	30.000				
X0327792	HLMR BRNG FIXED 2600K	EACH	2.000				
X0327794	HLMR BRG GUID EX 2600	EACH	2.000				
X0327796	BRACED EXCAVATION SPL	CU YD	463.000				
X0327798	UNDERGRD STOR CHAMBER	EACH	1.000				
X0335700	P.S. GENERAL WORK	L SUM	1.000				
X0426200	DEWATERING	L SUM	1.000				
X0783300	P.S. ELECTRICAL WORK	L SUM	1.000				
X0783500	P.S. MECHANICAL WORK	L SUM	1.000				
X2010400	STUMP REMOVAL ONLY	UNIT	130.000				
X2010505	CLEARING SPECIAL	L SUM	1.000				

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X2503000	MAINTENANCE MOWING	ACRE	316.250				
X3550015	HMA BASE CSE VAR DP	TON	9,388.000				
X4021000	TEMP ACCESS- PRIV ENT	EACH	15.000				
X4022000	TEMP ACCESS- COM ENT	EACH	30.000				
X4023000	TEMP ACCESS- ROAD	EACH	7.000				
X4240420	PC CONC SIDEWALK 4 SP	SQ FT	3,342.000				
X4401198	HMA SURF REM VAR DP	SQ YD	137,425.000				
X4403800	MEDIAN SURF REMOVAL	SQ FT	17,726.000				
X5210090	HLMR BRG GUID EXP 100	EACH	12.000				
X5210110	HLMR BRG GUID EXP 200	EACH	24.000				
X5210170	HLMR BRG GUID EXP 500	EACH	12.000				
X5210190	HLMR BRG GUID EXP 600	EACH	6.000				
X5210340	HLMR BRNG FIXED 500K	EACH	12.000				
X5210350	HLMR BRNG FIXED 600K	EACH	12.000				
X5420618	PIPE CULV CLEANED 18	FOOT	44.000				

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X5420624	PIPE CULV CLEANED 24	FOOT	70.000				
X5420630	PIPE CULV CLEANED 30	FOOT	406.000				
X5860110	GRANULAR BACKFILL STR	CU YD	317.300				
X6020074	INLETS TA T3V F&G	EACH	13.000				
X6020075	INLETS TB T3V F&G	EACH	18.000				
*REV X6026051	SAN MAN RECONST	EACH	5.000				
X6100230	TF INLT BX 610001 SPL	EACH	2.000				
X6670105	PERM SURV MKRS SPL	EACH	1.000				
X6700410	ENGR FLD OFF A SPL	CAL MO	48.000				
X7240300	SIGN REMOVAL	EACH	2.000				
X8110454	CON AT ST 1 SS	FOOT	20.000				
X8110458	CON AT ST 2 SS	FOOT	50.000				
X8250500	LIGHTING UNIT COMP SP	EACH	7.000				
Z0001850	ARC PREC CON PANEL	EACH	4.000				
Z0004530	HMA DRIVEWAY PAVT 8	SQ YD	2,083.000				

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Z0004542	HMA REMOVAL SPL	SQ YD	984.000				
Z0004552	APPROACH SLAB REM	SQ YD	263.300				
Z0005305	BOX CUL TO BE CLEANED	FOOT	458.000				
Z0007601	BLDG REMOV NO 1	L SUM	1.000				
Z0007602	BLDG REMOV NO 2	L SUM	1.000				
Z0007603	BLDG REMOV NO 3	L SUM	1.000				
Z0007604	BLDG REMOV NO 4	L SUM	1.000				
Z0007605	BLDG REMOV NO 5	L SUM	1.000				
Z0007606	BLDG REMOV NO 6	L SUM	1.000				
Z0007607	BLDG REMOV NO 7	L SUM	1.000				
Z0007608	BLDG REMOV NO 8	L SUM	1.000				
Z0007609	BLDG REMOV NO 9	L SUM	1.000				
Z0007610	BLDG REMOV NO 10	L SUM	1.000				
Z0007611	BLDG REMOV NO 11	L SUM	1.000				
Z0007612	BLDG REMOV NO 12	L SUM	1.000				

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Z0007613	BLDG REMOV NO 13	L SUM	1.000				
Z0007614	BLDG REMOV NO 14	L SUM	1.000				
Z0007615	BLDG REMOV NO 15	L SUM	1.000				
Z0007616	BLDG REMOV NO 16	L SUM	1.000				
Z0007617	BLDG REMOV NO 17	L SUM	1.000				
Z0007618	BLDG REMOV NO 18	L SUM	1.000				
Z0009100	C I PIPE 10	FOOT	79.000				
Z0013300	CONC REM SPEC	SQ YD	854.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0015500	DEBRIS REMOVAL	L SUM	1.000				
Z0016200	DECK SLAB REP (PART)	SQ YD	15.300				
Z0016702	DETOUR SIGNING	L SUM	1.000				
Z0018004	DRAINAGE SCUPPR DS-12	EACH	12.000				
Z0018800	DRAINAGE SYSTEM	L SUM	1.000				
Z0019500	DRYWELL	EACH	24.000				

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Z0022800	FENCE REMOVAL	FOOT	618.000				
Z0026407	TEMP SHT PILING	SQ FT	1,721.000				
Z0029090	DIAMOND GRIND BR SEC	SQ YD	9,698.000				
Z0030850	TEMP INFO SIGNING	SQ FT	32.000				
Z0034105	MATL TRANSFER DEVICE	TON	8,823.000				
Z0034210	MECH ST EARTH RET WL	SQ FT	23,481.000				
Z0034390	MODULAR EXPAN JT 6	FOOT	88.000				
Z0034393	MODULAR EXPAN JT 9	FOOT	44.000				
Z0034500	MODULAR EXPAN JT 18	FOOT	44.000				
Z0041500	PLUG EX CULVERTS	EACH	3.000				
Z0046304	P UNDR FOR STRUCT 4	FOOT	204.000				
Z0049799	PROT RESET SURVEY MRK	EACH	4.000				
Z0049807	R&D FRIABL ASB BLD 7	L SUM	1.000				
Z0049814	R&D FRIABL ASB BLD 14	L SUM	1.000				
Z0049817	R&D FRIABL ASB BLD 17	L SUM	1.000				

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Z0049901	R&D NON-FR ASB BLD 1	L SUM	1.000				
Z0049903	R&D NON-FR ASB BLD 3	L SUM	1.000				
Z0049905	R&D NON-FR ASB BLD 5	L SUM	1.000				
Z0049907	R&D NON-FR ASB BLD 7	L SUM	1.000				
Z0049911	R&D NON-FR ASB BLD 11	L SUM	1.000				
Z0049914	R&D NON-FR ASB BLD 14	L SUM	1.000				
Z0049917	R&D NON-FR ASB BLD 17	L SUM	1.000				
Z0054404	ROCK FILL - EMBANK	CU YD	5,240.000				
Z0056100	SAND DRAINAGE BLANKET	CU YD	9,556.000				
Z0056668	SS 2 WAT MN 12	FOOT	1,029.000				
Z0056669	SS 2 WAT MN 15	FOOT	372.000				
Z0056675	SS 2 WAT MN 30	FOOT	96.000				
Z0056678	SS 2 WAT MN 36	FOOT	398.000				
Z0062456	TEMP PAVEMENT	SQ YD	1,806.000				
20100110	TREE REMOV 6-15	UNIT	409.000				

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20100210	TREE REMOV OVER 15	UNIT	1,033.000				
20101100	TREE TRUNK PROTECTION	EACH	25.000				
20101350	TREE PRUN OVER 10	EACH	3.000				
20200100	EARTH EXCAVATION	CU YD	29,035.000				
20200600	EXC & GR EX SHOULDER	UNIT	8.000				
20201200	REM & DISP UNS MATL	CU YD	3,020.000				
20400800	FURNISHED EXCAVATION	CU YD	104,425.000				
20700220	POROUS GRAN EMBANK	CU YD	7,313.000				
20800150	TRENCH BACKFILL	CU YD	3,890.000				
21101615	TOPSOIL F & P 4	SQ YD	90,250.000				
21301052	EXPLOR TRENCH 52	FOOT	2,000.000				
25000100	SEEDING CL 1	ACRE	6.000				
25000200	SEEDING CL 2	ACRE	16.500				
25000350	SEEDING CL 7	ACRE	5.750				
25000400	NITROGEN FERT NUTR	POUND	2,544.000				

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25000500	PHOSPHORUS FERT NUTR	POUND	2,544.000				
25000600	POTASSIUM FERT NUTR	POUND	2,544.000				
25000700	AGR GROUND LIMESTONE	TON	57.000				
25100115	MULCH METHOD 2	ACRE	95.000				
25100127	MULCH METHOD 3A	ACRE	6.000				
28000200	EARTH EXC - EROS CONT	CU YD	170.000				
28000250	TEMP EROS CONTR SEED	POUND	7,765.000				
28000305	TEMP DITCH CHECKS	FOOT	590.000				
28000315	AGG DITCH CHECKS	TON	50.000				
28000400	PERIMETER EROS BAR	FOOT	8,997.000				
28000500	INLET & PIPE PROTECT	EACH	8.000				
28000510	INLET FILTERS	EACH	99.000				
28001000	AGGREGATE - EROS CONT	TON	16.100				
28100107	STONE RIPRAP CL A4	SQ YD	1,288.000				
28100109	STONE RIPRAP CL A5	SQ YD	106.000				

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28100707	STONE DUMP RIP CL A4	SQ YD	84.000				
28200200	FILTER FABRIC	SQ YD	1,394.000				
31100200	SUB GRAN MAT A	CU YD	457.000				
31100700	SUB GRAN MAT A 8	SQ YD	49,351.000				
31101200	SUB GRAN MAT B 4	SQ YD	2,615.000				
31101900	SUB GRAN MAT C	TON	627.000				
31200100	STAB SUBBASE 4	SQ YD	507.000				
35101800	AGG BASE CSE B 6	SQ YD	452.000				
35102000	AGG BASE CSE B 8	SQ YD	645.000				
35300500	PCC BSE CSE 10	SQ YD	180.000				
35501312	HMA BASE CSE 7	SQ YD	2,478.000				
35501320	HMA BASE CSE 9	SQ YD	2,412.000				
35501324	HMA BASE CSE 10	SQ YD	4,947.000				
35800100	PREPARATION OF BASE	SQ YD	899.000				
40200100	AGG SURF CSE A	TON	113.000				

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40200500	AGG SURF CSE A 6	SQ YD	2,013.000				
40200800	AGG SURF CSE B	TON	11.000				
40600625	LEV BIND MM N50	TON	182.000				
40600635	LEV BIND MM N70	TON	3,033.000				
40600982	HMA SURF REM BUTT JT	SQ YD	1,022.000				
40600990	TEMPORARY RAMP	SQ YD	92.000				
40603080	HMA BC IL-19.0 N50	TON	1,290.000				
40603085	HMA BC IL-19.0 N70	TON	4,355.000				
40603310	HMA SC "C" N50	TON	1,293.000				
40603315	HMA SC "C" N70	TON	9,598.000				
40701861	HMA PAVT FD 9	SQ YD	9,972.000				
40701896	HMA PAVT FD 10 3/4	SQ YD	14,656.000				
40800025	BIT MATLS PR CT	POUND	255,860.000				
40800050	INCIDENTAL HMA SURF	TON	298.000				
42000401	PCC PVT 9 JOINTED	SQ YD	510.000				

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42000500	PCC PVT 10	SQ YD	178.000				
42001200	PAVEMENT FABRIC	SQ YD	178.000				
42001300	PROTECTIVE COAT	SQ YD	9,875.000				
42001420	BR APPR PVT CON (PCC)	SQ YD	27.000				
42001430	BR APPR PVT CON (FLX)	SQ YD	964.000				
42300200	PCC DRIVEWAY PAVT 6	SQ YD	43.000				
42300400	PCC DRIVEWAY PAVT 8	SQ YD	689.000				
42400100	PC CONC SIDEWALK 4	SQ FT	53,387.500				
42400800	DETECTABLE WARNINGS	SQ FT	594.000				
44000100	PAVEMENT REM	SQ YD	20,942.000				
44000158	HMA SURF REM 2 1/4	SQ YD	829.000				
44000200	DRIVE PAVEMENT REM	SQ YD	3,935.000				
44000500	COMB CURB GUTTER REM	FOOT	5,620.000				
44000600	SIDEWALK REM	SQ FT	29,913.000				
44003100	MEDIAN REMOVAL	SQ FT	4,087.000				

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44004250	PAVED SHLD REMOVAL	SQ YD	4,601.000				
44200180	PAVT PATCH T2 15	SQ YD	1,500.000				
44200184	PAVT PATCH T3 15	SQ YD	200.000				
44201783	CL D PATCH T4 11	SQ YD	60.000				
48101600	AGGREGATE SHLDS B 8	SQ YD	3,077.000				
48102100	AGG WEDGE SHLD TYPE B	TON	2,986.000				
48203029	HMA SHOULDERS 8	SQ YD	7,713.000				
48203100	HMA SHOULDERS	TON	5,091.000				
48300400	PCC SHOULDERS 9	SQ YD	150.000				
50100300	REM EXIST STRUCT N1	EACH	1.000				
50100400	REM EXIST STRUCT N2	EACH	1.000				
50100500	REM EXIST STRUCT N3	EACH	1.000				
50101500	REM EXIST SUP-STR	EACH	1.000				
50102400	CONC REM	CU YD	90.800				
50104400	CONC HDWL REM	EACH	4.000				

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50105220	PIPE CULVERT REMOV	FOOT	342.000				
50157300	PROTECTIVE SHIELD	SQ YD	120.000				
50200100	STRUCTURE EXCAVATION	CU YD	3,215.000				
50200300	COFFERDAM EXCAVATION	CU YD	9,751.000				
50201121	COFFERDAM TYP 2 LOC 1	EACH	1.000				
50201122	COFFERDAM TYP 2 LOC 2	EACH	1.000				
50201123	COFFERDAM TYP 2 LOC 3	EACH	1.000				
50201124	COFFERDAM TYP 2 LOC 4	EACH	1.000				
50201125	COFFERDAM TYP 2 LOC 5	EACH	1.000				
50201126	COFFERDAM TYP 2 LOC 6	EACH	1.000				
50300225	CONC STRUCT	CU YD	8,459.200				
50300255	CONC SUP-STR	CU YD	4,557.800				
50300260	BR DECK GROOVING	SQ YD	11,796.100				
50300265	SEAL COAT CONC	CU YD	3,979.000				
50300280	CONCRETE ENCASEMENT	CU YD	22.300				

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 *REVISED: JANUARY 7, 2015

Route
 FAP 745
 FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
50300300	PROTECTIVE COAT	SQ YD	15,619.000				
*REV 50500105	F & E STRUCT STEEL	L SUM	1.000				
50500505	STUD SHEAR CONNECTORS	EACH	36,039.000				
50800205	REINF BARS, EPOXY CTD	POUND	2,492,950.000				
50800515	BAR SPLICERS	EACH	854.000				
50800530	MECHANICAL SPLICERS	EACH	1,012.000				
50901750	PARAPET RAILING	FOOT	5,537.000				
50901760	PIPE HANDRAIL	FOOT	259.000				
51200957	FUR M S PILE 12X0.250	FOOT	134.000				
51200959	FUR M S PILE 14X0.312	FOOT	1,368.000				
51201800	FUR STL PILE HP14X73	FOOT	1,525.000				
51201900	FUR STL PILE HP14X89	FOOT	14,827.000				
51202100	FUR STL PILE HP14X117	FOOT	26,035.000				
51202305	DRIVING PILES	FOOT	43,889.000				
51203200	TEST PILE MET SHELLS	EACH	2.000				

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 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 72B58

State Job # - C-96-016-08
 County Name - MORGAN- PIKE-
 Code - 137 - 149 -
 District - 6 - 6 -
 Section Number - 109RS-6, 123RS-3, 123B-2, ETC

Project Number
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Route
 FAP 745
 FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
51203800	TEST PILE ST HP14X73	EACH	2.000				
51203900	TEST PILE ST HP14X89	EACH	6.000				
51204100	TEST PILE ST HP14X117	EACH	6.000				
51204650	PILE SHOES	EACH	640.000				
51500100	NAME PLATES	EACH	3.000				
52000110	PREF JT STRIP SEAL	FOOT	204.000				
52100010	ELAST BEARING ASSY T1	EACH	21.000				
52100520	ANCHOR BOLTS 1	EACH	180.000				
52100530	ANCHOR BOLTS 1 1/4	EACH	108.000				
52100560	ANCHOR BOLTS 2	EACH	40.000				
542A1057	P CUL CL A 2 12	FOOT	142.000				
542A1060	P CUL CL A 2 15	FOOT	57.000				
542A1066	P CUL CL A 2 21	FOOT	40.000				
542A1081	P CUL CL A 2 36	FOOT	181.000				
542A1093	P CUL CL A 2 48	FOOT	126.000				

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Route
 FAP 745
 FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
542A1921	P CUL CL A 3 36	FOOT	110.000				
54213657	PRC FLAR END SEC 12	EACH	8.000				
54213660	PRC FLAR END SEC 15	EACH	2.000				
54213666	PRC FLAR END SEC 21	EACH	2.000				
54213681	PRC FLAR END SEC 36	EACH	4.000				
54213693	PRC FLAR END SEC 48	EACH	2.000				
5422D012	P CUL CL D 2 12 TEMP	FOOT	6.000				
5422D018	P CUL CL D 2 18 TEMP	FOOT	17.000				
5422D036	P CUL CL D 2 36 TEMP	FOOT	210.000				
54261436	CONC ES 542001 36 1:4	EACH	2.000				
550A0340	STORM SEW CL A 2 12	FOOT	2,119.000				
550A0360	STORM SEW CL A 2 15	FOOT	441.000				
550A0380	STORM SEW CL A 2 18	FOOT	302.000				
550A0410	STORM SEW CL A 2 24	FOOT	429.000				
550A0430	STORM SEW CL A 2 30	FOOT	675.000				

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Route
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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
550A0450	STORM SEW CL A 2 36	FOOT	754.000				
55100200	STORM SEWER REM 6	FOOT	1,667.000				
55100300	STORM SEWER REM 8	FOOT	120.000				
55100400	STORM SEWER REM 10	FOOT	289.000				
55100500	STORM SEWER REM 12	FOOT	701.000				
55100900	STORM SEWER REM 18	FOOT	508.000				
55101100	STORM SEWER REM 21	FOOT	289.000				
55101200	STORM SEWER REM 24	FOOT	1,301.000				
55101400	STORM SEWER REM 30	FOOT	32.000				
58700300	CONCRETE SEALER	SQ FT	14,046.600				
59100100	GEOCOMPOSITE WALL DR	SQ YD	139.300				
59300100	CONTR LOW-STRENG MATL	CU YD	51.000				
60100060	CONC HDWL FOR P DRAIN	EACH	20.000				
60100945	PIPE DRAINS 12	FOOT	12.000				
60107600	PIPE UNDERDRAINS 4	FOOT	1,844.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60108100	PIPE UNDERDRAIN 4 SP	FOOT	180.000				
60218300	MAN TA 4 DIA T1F OL	EACH	1.000				
60218400	MAN TA 4 DIA T1F CL	EACH	7.000				
60219000	MAN TA 4 DIA T8G	EACH	6.000				
60219570	MAN TA 4 DIA T3V F&G	EACH	4.000				
60221000	MAN TA 5 DIA T1F OL	EACH	1.000				
60221100	MAN TA 5 DIA T1F CL	EACH	7.000				
60221700	MAN TA 5 DIA T8G	EACH	5.000				
60222270	MAN TA 5 DIA T3V F&G	EACH	9.000				
60223800	MAN TA 6 DIA T1F CL	EACH	2.000				
60224129	MAN TA 7 DIA T3V F&G	EACH	1.000				
60224445	MAN TA 7 DIA T1F OL	EACH	1.000				
60224446	MAN TA 7 DIA T1F CL	EACH	2.000				
60234200	INLETS TA T1F OL	EACH	1.000				
60236200	INLETS TA T8G	EACH	3.000				

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Route
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 FAP 310

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60240210	INLETS TB T1F OL	EACH	3.000				
60240301	INLETS TB T8G	EACH	9.000				
60255500	MAN ADJUST	EACH	1.000				
60257900	MAN RECONST	EACH	2.000				
*REV 60300305	FR & LIDS ADJUST	EACH	50.000				
60500040	REMOV MANHOLES	EACH	10.000				
60500050	REMOV CATCH BAS	EACH	4.000				
60500060	REMOV INLETS	EACH	33.000				
60500105	FILL MANHOLES	EACH	1.000				
60600605	CONC CURB TB	FOOT	185.000				
60603800	COMB CC&G TB6.12	FOOT	636.500				
60605000	COMB CC&G TB6.24	FOOT	4,300.500				
60606200	COMB CC&G TB9.12 MOD	FOOT	612.000				
60608600	COMB CC&G TM6.06	FOOT	52.000				
60610400	COMB CC&G TM6.24	FOOT	58.500				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60618300	CONC MEDIAN SURF 4	SQ FT	4,138.000				
60620000	CONC MED TSB6.24	SQ FT	90.000				
63000001	SPBGR TY A 6FT POSTS	FOOT	3,975.000				
63100085	TRAF BAR TERM T6	EACH	14.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	8.000				
63200310	GUARDRAIL REMOV	FOOT	6,735.000				
63300575	R&R RAIL ELEM EX GDRL	FOOT	662.500				
63301990	REM RE-E T B TERM T1	EACH	12.000				
66400305	CH LK FENCE 6	FOOT	117.000				
66407800	CH LK GATES 6X16 DBL	EACH	1.000				
66600105	FUR ERECT ROW MARKERS	EACH	41.000				
66700205	PERM SURV MKRS T1	EACH	24.000				
*REV 66900200	NON SPL WASTE DISPOSL	CU YD	31,267.000				
*REV 66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
*REV 66900530	SOIL DISPOSAL ANALY	EACH	5.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
*REV 66901000	BACKFILL PLUGS	CU YD	40.000				
67000600	ENGR FIELD LAB	CAL MO	48.000				
67100100	MOBILIZATION	L SUM	1.000				
70100405	TRAF CONT-PROT 701321	EACH	1.000				
70100450	TRAF CONT-PROT 701201	L SUM	1.000				
70100460	TRAF CONT-PROT 701306	L SUM	1.000				
70100500	TRAF CONT-PROT 701326	L SUM	1.000				
70102620	TR CONT & PROT 701501	L SUM	1.000				
70102640	TR CONT & PROT 701801	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	200.000				
70106500	TEMP BR TRAF SIGNALS	EACH	1.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	24.000				
70300100	SHORT TERM PAVT MKING	FOOT	17,506.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	78.000				
70300230	TEMP PVT MK LINE 5	FOOT	88,643.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
70300240	TEMP PVT MK LINE 6	FOOT	871.000				
70300250	TEMP PVT MK LINE 8	FOOT	206.000				
70300260	TEMP PVT MK LINE 12	FOOT	1,180.000				
70300280	TEMP PVT MK LINE 24	FOOT	76.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	12,717.000				
70400100	TEMP CONC BARRIER	FOOT	2,313.000				
70400200	REL TEMP CONC BARRIER	FOOT	150.000				
70600260	IMP ATTN TEMP FRN TL3	EACH	4.000				
70600332	IMP ATTN REL FRN TL3	EACH	2.000				
72000100	SIGN PANEL T1	SQ FT	916.000				
72000200	SIGN PANEL T2	SQ FT	68.000				
72400100	REMOV SIN PAN ASSY TA	EACH	45.000				
72400200	REMOV SIN PAN ASSY TB	EACH	50.000				
72800100	TELES STL SIN SUPPORT	FOOT	1,531.000				
73000100	WOOD SIN SUPPORT	FOOT	42.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
73100100	BASE TEL STL SIN SUPP	EACH	24.000				
78000300	THPL PVT MK LINE 5	FOOT	26,627.000				
78000400	THPL PVT MK LINE 6	FOOT	1,062.000				
78000500	THPL PVT MK LINE 8	FOOT	224.000				
78000600	THPL PVT MK LINE 12	FOOT	2,836.000				
78004200	PREF PL PM TB INL L&S	SQ FT	315.000				
78004230	PREF PL PM TB INL L6	FOOT	263.000				
78004280	PREF PL PM TB INL L24	FOOT	354.000				
78009005	MOD URETH PM LINE 5	FOOT	125,464.000				
78009006	MOD URETH PM LINE 6	FOOT	1,278.000				
78009008	MOD URETH PM LINE 8	FOOT	430.000				
78009012	MOD URETH PM LINE 12	FOOT	3,162.000				
78100100	RAISED REFL PAVT MKR	EACH	802.000				
78200300	PRISMATIC CURB REFL	EACH	40.000				
78200410	GUARDRAIL MKR TYPE A	EACH	73.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78200530	BAR WALL MKR TYPE C	EACH	79.000				
78201000	TERMINAL MARKER - DA	EACH	8.000				
78300200	RAISED REF PVT MK REM	EACH	478.000				
80400100	ELECT SERV INSTALL	EACH	3.000				
80400200	ELECT UTIL SERV CONN	L SUM	1.000				
81028320	UNDRGRD C PVC 1	FOOT	2,154.000				
81028360	UNDRGRD C PVC 2 1/2	FOOT	115.000				
81028380	UNDRGRD C PVC 3 1/2	FOOT	63.000				
81028770	UNDRGRD C CNC 3	FOOT	714.000				
81100300	CON AT ST 1 GALVS	FOOT	50.000				
81200230	CON EMB STR 2 PVC	FOOT	8,126.000				
81300220	JUN BX SS AS 6X6X4	EACH	2.000				
81300530	JUN BX SS AS 12X10X6	EACH	7.000				
81300610	JUN BX SS AS 14X12X6	EACH	1.000				
81603000	UD 2#8 #8G XLPUSE 3/4	FOOT	2,291.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81603040	UD 2#6 #8G XLPUSE 1	FOOT	3,708.000				
81702120	EC C XLP USE 1C 8	FOOT	20,338.000				
81702130	EC C XLP USE 1C 6	FOOT	11,642.000				
82102100	LUM SV HOR MT 100W	EACH	4.000				
82102250	LUM SV HOR MT 250W	EACH	35.000				
82200605	WATWY OBS WARN LM LED	EACH	6.000				
82500300	LT CONT PM 240V 30	EACH	2.000				
82500400	LT CONT BASM 480V100D	EACH	1.000				
83002400	LT P A 40MH 10DA	EACH	15.000				
83003600	LT P A 45MH 15DA	EACH	20.000				
83600200	LIGHT POLE FDN 24D	FOOT	145.000				
83600355	LP F M 15BC 8" X 6'	EACH	20.000				
83800650	BKWY DEV COU SS SCR N	EACH	44.000				
84200500	REM LT UNIT SALV	EACH	3.000				
84200600	REM LT U NO SALV	EACH	18.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
84200804	REM POLE FDN	EACH	11.000				
84301200	REM NAV OBS WL SYSTEM	L SUM	1.000				
84500110	REMOV LIGHTING CONTR	EACH	1.000				
84500120	REMOV ELECT SERV INST	EACH	1.000				

CONTRACT NUMBER

72B58

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.**

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Revised 1/14/15

STATUS OF UTILITIES TO BE ADJUSTED

The following utilities are involved in this project. The utility companies have provided the following:

<u>Name & Address of Utility</u>	<u>Type</u>	<u>Location</u>	<u>Estimated Date of Relocation Completed</u>
Mr. Larry Watson Ameren Illinois 1900 W. Lafayette Rd. Jacksonville, IL 62650 Cell: 217-257-3963 Work: 217-479-5201 Email: Lwatson@ameren.com	Electric	PR IL 104 Sta. 81+00 – 100+60 Meredosia Terminal Sta. 6+75 – 13+50 EX IL 104 Sta. 11+00 – 21+00 Main St. Sta. 496+50 – 502+85 North Alley Sta. 740+00 – 750+00 Various Alley locations downtown Meredosia	June 15, 2015
Mr. Quinton Snyder Ameren Illinois 700 Jersey St. Quincy, IL 52301 Cell: 217-653-1439 Work: 217-221-0854 Email: Qsnyder@ameren.com	Gas	PR IL 104 Sta. 33+00, 40+00, 82+00 – 100+60 EX IL 104 Sta. 13+00 – 21+00 Main St. Sta. 496+50 – 502+85 Washington St 664+10 – 667+00 Putnam St Sta. 601+45 – 605+55 North Alley Sta. 741+00 – 750+00 South Alley Sta. 488+00 – 491+00	June 15, 2015

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- d) Forged-Steel Flanges and Flanged Fittings: ASME B16.5, minimum Class 150, including bolts, nuts, and gaskets of the following material group, end connections, and facings:
 1. Material Group: 1.1.
 2. End Connections: Threaded or butt welding to match pipe.
 3. Lapped Face: Not permitted underground.
 4. Gasket Materials: ASME B16.20, metallic, flat, asbestos free, aluminum o-rings, and spiral-wound metal gaskets.
 5. Bolts and Nuts: ASME B18.2.1, carbon steel aboveground and stainless steel underground.
 2. Fittings shall be flanged for piping within the pump station and mechanical joint for buried pipe.
- C. Joining Materials
1. Joint Compound and Tape: Suitable for natural gas.
 2. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
 3. Brazing Filler Metals: Alloy with melting point greater than 1000 deg F (540 deg C) complying with AWS A5.8/A5.8M. Brazing alloys containing more than 0.05 percent phosphorus are prohibited.
- D. Gas Valves and Fittings
1. Y-Pattern Strainers:
 - a) Body: ASTM A 126, Class B, cast iron with bolted cover and bottom drain connection.
 - b) End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2-1/2 (DN 65) and larger.
 - c) Strainer Screen: 40-mesh startup strainer and perforated stainless-steel basket with 50 percent free area.
 - d) CWP Rating: 125 psig (862 kPa).
 2. General Requirements for Manual Gas Shutoff Valves, NPS 2 (DN 50) and Smaller: Comply with ASME B16.33.
 - a) CWP Rating: 125 psig (862 kPa) at the end of the line.
 - b) Threaded Ends: Comply with ASME B1.20.1.
 - c) Dryseal Threads on Flare Ends: Comply with ASME B1.20.3.
 - d) Tamperproof Feature: Locking feature. Listing: Listed and labeled by an Nationally Recognized Testing Lab (NRTL) acceptable to authorities having jurisdiction for gas service for valves 1 inch (25 mm) and smaller.
 - e) **Listing: Listed and labeled by a Nationally Recognized Testing Lab (NRTL) acceptable to authorities having jurisdiction for gas service for valves 1 inch (25 mm) and smaller.**
 - f) Service Mark: Valves 1-1/4 inches (32 mm) to NPS 2 (DN 50) shall have initials "WOG" permanently marked on valve body.
 3. Two-Piece, Full-Port, Bronze Ball Valves with Bronze Trim: MSS SP-110.
 - a) Body: Bronze, complying with ASTM B 584.
 - b) Ball: Chrome-plated bronze.
 - c) Stem: Bronze; blowout proof.
 - d) Seats: Reinforced TFE; blowout proof.
 - e) Packing: Threaded-body pack nut design with adjustable-stem packing.
 - f) Ends: Threaded, flared, or socket. CWP Rating: 600 psig (4140 kPa).

4. Curves shall be drawn to such scale that values can be read accurately within 1%. The efficiency curves submitted shall constitute a guarantee within 1% on the scale, for all deliveries between 3/4 rated capacity and 1-1/4 rated capacity.
 5. In addition to the hydraulic test, the pump manufacturer shall perform the following inspections and tests on each pump before shipment from factory:
 - a) Impeller, motor rating and electrical connections shall first be checked for compliance with the Specifications.
 - b) A motor and cable insulation test for moisture content or insulation defects shall be made.
 - c) Prior to submergence, the pump shall be run dry to establish correct rotation and mechanical integrity.
 - d) The pump shall be run for 30 minutes submerged a minimum of 1.83 m (6 ft.) under water.
 - e) After operational test 1.5.5(e) 4 the insulation test 1.5.4(e) 2, is to be performed again. A written report, stating the foregoing steps have been done, shall be submitted prior to shipment.
 - f) The **low flow and main pumps** shall be subjected to a hydrostatic test and certification of the hydrostatic test shall be provided. The hydrostatic pressure shall, in any case, not be less than twice the shut-off pressure of the pump as shown by the characteristic curve.
 6. The Contractor shall provide transportation and reasonable expenses to and from all factory pump testing for two (2) representatives of the State of Illinois to witness such testing. State of Illinois shall designate these individuals. The Contractor shall notify the State of Illinois of a scheduled test date two months prior to said date and shall arrange an exact suitable date not less than two weeks prior to the test.
 7. The pump tests shall be performed in the domestic United States. However, if this can't be done, the contractor shall hire an approved witness and pay all necessary expenses if the tests cannot be performed in the domestic United States.
- 1.6 Guarantee
- A. All mechanical equipment shall be guaranteed from all defects of material and workmanship for the manufacturer's standard length of guarantee or for 1 year from the date of final acceptance, whichever is longer.
- 1.7 Delivery, Storage and Handling
- A. Products and materials shall be delivered, stored and handled as specified in Section 012000 - General Requirements.
- 1.8 Spare Parts
- A. The following spare parts shall be provided. Two sets shall be provided for the main pump and one set for the low flow pump for each pump:
 1. One set of mechanical seals
 2. One set of cable entry grommets
 3. One set of Motor Bearings
 4. One set of Wear Rings

- H. Housing:
 - 1. Constructed of heavy gauge galvanized steel
 - 2. Rectangular design construction and shall include rectangular duct mounting collars
 - 3. Includes pre-punched mounting brackets
 - 4. Profile as low as 11 inches
- I. Housing Supports and Drive Frame:
 - 1. Drive frame assemblies shall be constructed of heavy gauge steel and mounted on vibration isolators
 - 2. Designed with belt adjustment to eliminate scroll damage
- J. Duct Collars:
 - 1. Provided for easy duct connections for outlet and inlet collars
- K. Drive Assembly:
 - 1. Belts, pulleys, and keys oversized for a minimum of 150 percent of driven horsepower
 - 2. Belts: Static free and oil resistant
 - 3. Pulleys: Cast type, keyed, and securely attached to wheel and motor shafts
 - 4. Motor pulleys are adjustable for final system balancing
 - 5. Readily accessible for maintenance
- L. Access Panel:
 - 1. Panel type: Hinged
 - 2. Access to all internal components
- M. Mounting Brackets:
 - 1. Fully adjustable for multiple installation conditions
- N. Options/Accessories:
 - 1. Filter Box:
 - a. Type: Single sloped angles
 - b. Constructed of galvanized steel
 - c. Available in 1 or 2 inch disposable media or permanent washable aluminum mesh
 - 2. Finishes:
 - a. Types: Baked Enamel

2.2 Dampers

- A. Provide motorized dampers, mounted within the ductwork from the intake louver to the fan cabinet. The damper size shall be as noted in the damper schedule in paragraph 3.5.
- B. Fabrication: 18 gage galvanized steel frame with 3-½" depth, **extruded aluminum, insulated, airfoil blades, opposed blade arrangement, 0.07 in. thick with mechanically attached silicone or vinyl seal**, 3/16" diameter plated steel stub axles turning in acetyl bearings, extruded vinyl blade seals and internal 0.064" aluminum tie bar (on-blade).
- C. Damper motor shall be 2-position type connected to the damper via adjustable linkage. Power for the motor shall be 120 VAC, single phase. The motor shall be of suitable power to drive the damper to the full open position.

2.3 Exhaust Fans EF-1

- A. Exhaust fan EF-1 shall be belt-drive, in-line centrifugal fan. Fan airflow, static pressure, and size shall be as noted in the fan schedule in paragraph 3.4. **Fan to be spark-proof construction.**
- B. Ratings
 - 1. All fans shall conform to AMCA 210 and bear the AMCA Certified Rating Seal.
 - 2. All fans shall conform to AMCA 301, tested to AMCA 300 and bear the AMCA Certified Sound Rating Seal.
 - 3. Fan and damper motors in Pump Access Room shall be listed for use in Class 1 Division II Group C & D areas.
- C. Fabrication
 - 1. All fans shall conform to AMCA 99.
 - 2. Statically and dynamically balance fans to eliminate vibration or noise in occupied areas.
 - 3. Exhaust fan EF-1 shall be through the exterior wall with a louver and control damper assembly.
- D. Performance
 - 1. Fans used shall not decrease motor size, increase noise level, or increase tip speed by more than 10 percent, or increase inlet air velocity by more than 20 percent, from specified criteria. Fans shall be capable of accommodating static pressure variations of plus or minus 10 percent. Base performance on sea level conditions.
- E. Wheel:
 - 1. Non-overloading, backward inclined centrifugal wheel
 - 2. Constructed of aluminum, **spark-proof construction**
 - 3. Statically and dynamically balanced in accordance to AMCA Standard 204-05
 - 4. The wheel cone and fan inlet will be matched and shall have precise running tolerances for maximum performance and operating efficiency
 - 5. Single thickness blades are securely riveted or welded to a heavy gauge back plate and wheel cone.
- F. Motors:
 - 1. Motor enclosures: Explosion resistant enclosure
 - 2. Motors are permanently lubricated, heavy duty ball bearing type to match with the fan load and pre-wired to the specific voltage and phase
- G. Shafts and Bearings:
 - 1. Fan shaft shall be ground and polished solid steel with an anti-corrosive coating
 - 2. Permanently sealed bearings or pillow block ball bearings
 - 3. Bearing shall be selected for a minimum L10 life in excess of 100,000 hours (equivalent to L50 average life of 500,000 hours), at maximum cataloged operating speed
 - 4. Fan Shaft first critical speed is at least 25 percent over maximum operating speed
- H. Housing/Cabinet Construction
 - 1. Square design constructed of heavy gauge **aluminum** and shall include square duct mounting collars
 - 2. Housing and bearing supports shall be constructed of heavy gauge bolted and **welded aluminum** construction to prevent vibration and to rigidly support the shaft and bearing assembly.
 - 3. Aluminum construction is available in sizes 70-300

B. Fabrication

1. Frame shall be constructed of .080" extruded aluminum with .072" extruded aluminum blades. Fittings shall be plated center steel brackets, brass pivots and a 5/16" diameter plated steel linkage rod. Operating arm shall be 14 gage galvanized steel. Cover channel shall be .063" aluminum. Blade edge seals shall be vinyl gasketing extending the full length of the adjustable blades. Provide standard mill finish.

C. Bird Screen

1. Provide an internally mounted bird screen. The screen shall be constructed of .051" x 3/4" diamond pattern expanded aluminum.

D. Insect Screen

1. Provide an externally mounted insect screen. The screen shall be constructed of 0123" diameter aluminum mesh giving a free area ratio of 60%.

E. Damper

1. Damper per paragraph 2.2.
2. Control Damper to be interlocked to associated fan and mounted within louver assembly. See detail 1 on sheet HV-1 and Control Damper Schedule in paragraph 3.5.

F. Damper Motor

1. Power for the motor shall be 120 VAC, single phase. Damper motors that are exposed to hazardous atmospheres shall be explosion proof.

G. Field Finish

1. Finish exterior of fixed louver to matching color of exterior metal. Color: Dove Grey.

2.5 Relief Hood/Motorized Damper Assembly (RH-1)

A. General

1. Provide a combination relief hood/motorized damper, with external bird screen for exhaust damper D-RH1.

B. Fabrication

1. Aluminum sheet, minimum 0.063 inch (1.6 mm) thick base and 0.050 inch (1.27 mm) thick hood; suitably reinforced. Fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figures 6-6 and 6-7.

C. Bird Screen

1. Provide an externally mounted bird screen. The screen shall be constructed of .051" x 3/4" diamond pattern expanded aluminum.

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D. Damper

3. Damper per paragraph 2.2.
4. Control Damper to be interlocked to associated fan and mounted within louver assembly. See detail 1 on sheet HV-1 and Control Damper Schedule in paragraph 3.5.

E. Damper Motor

1. Power for the motor shall be 120 VAC, single phase. Damper motors that are exposed to hazardous atmospheres shall be explosion proof.

F. Field Finish

1. Finish exterior of hood to matching color of exterior. Color: Dove Grey.

2.6 Low Pressure Ductwork

A. General

1. Non-combustible or conforming to requirements for Class 1 air duct materials, or UL 181.
2. Galvanized (hot dipped) Steel Ducts: ASTM A525 or ASTM A527 hot dipped galvanized steel sheet, lock-forming quality, having zinc coating of 1.25 oz. per sq. ft. (382 g/sq. m) for each side in conformance with ASTM A90. Galvanized ducts shall be installed for all supply and exhaust ducts except for ducts serving the wet well. Ductwork shall conform to the 250 Pa (1 inch WG) pressure class per Section 1.8.
3. Stainless Steel Ducts: ASTM A366. Stainless steel ducts shall be installed for the supply and exhaust ducts serving the wet well location. Ductwork shall conform to the 250 Pa (1 inch WG) pressure class per Section 1.8.
4. Fasteners: rivets, bolts, or sheet metal screws matching duct materials.
5. Sealant: non-hardening, water resistant, fire resistive, compatible with mating materials; liquid used alone or with tape, or heavy mastic.
6. Hanger Rod: Match duct material; threaded both ends, threaded one end, or continuously threaded.

- B. Volume dampers shall be provided for air balance purposes. Provide manual volume dampers on all low pressure supply and exhaust duct branches and to all air inlets and outlets unless otherwise noted. Dampers shall be opposed blade type of same material as associated ductwork. Volume dampers to be locking type with lever handle, position indicator and lock nut. Damper to be by Ruskin, Greenheck, Nailor or approved equal.

C. Fabrication

1. Fabricate and support in accordance with SMACNA Low and Medium Pressure Duct Construction Standards and ASHRAE handbooks, except as indicated.
2. Size round ducts installed in place of rectangular ducts in accordance with ASHRAE table of equivalent rectangular and round ducts. No variation of duct configuration or sizes permitted except by written permission.

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- B. Comply with NFPA 70.
- C. Engine Exhaust Emissions and Fuel System: Comply with applicable Federal, State, and local government requirements.
- D. Permits: Provide required air permitting and fuel system permitting required in accordance with applicable Federal, State, and local government requirements.
- E. Single-Source Responsibility: Obtain engine generator system components from single manufacturer with responsibility for entire system. Unit shall be representative product built from components that have proven compatibility and reliability and are coordinated to operate as unit as evidenced by records of prototype testing.

PART 2 - PRODUCTS:

2.1 Manufacturers

A. Engine Generator Sets:

- 1. Cummins Power Generation
- 2. Kohler Co.
- 3. Caterpillar
- 4. MTU Onsite Energy – Central Power Systems, St. Louis, MO
- 5. **Generac Industrial Power**

B. Engine Generator System:

- 1. System is coordinated assembly of compatible components.
- 2. Ratings: Coordinate with other equipment suppliers and size the generator to start one main pump, while the equipment listed in 2.1.B.3 Step 1, is operating. Minimum rating shall be 3-ph, 4-wire 277/480v, 60 Hz, 150 kW, 175 KVA.
- 3. Motor starting KVA of 350 minimum required to start and operate following load steps without exceeding 20% maximum voltage dip and with return to steady state in less than 2 sec.
 - a. Step No.1 15 HP Low Flow Pump
 - b. Step No.1 900 VA lighting at the station
 - c. Step No.1 1 KVA UPS
 - d. Step No.1 2 – 1/2 HP Exhaust Fan
 - e. Step No.1 9 KW Unit Heater
 - f. Step No.2 60 HP Main Pump
- 4. Safety Standard: Comply with ASME B15.1
- 5. Nameplates: Equip each major system component with conspicuous nameplate of component manufacturer. Nameplate identifies manufacturer of origin and address, and model and serial number of item.

C. Engine Generator Set:

- 1. Power Output Rating: Nominal ratings as indicated, with capacity as evidenced by records of prototype testing.
- 2. Skid: Welded steel base securely mounted with anchored mounting bolts. Adequate strength and rigidity to maintain alignment of mounted components without dependence on concrete foundation. Free from sharp edges and corners. Lifting attachments arranged to facilitate lifting with slings without damaging components.

Revised 1/14/15

Revise Article 109.09(e) of the Standard Specifications to read:

“(e) Procedure. The Department provides two administrative levels for claims review.

- Level I Engineer of Construction
- Level II Chief Engineer/Director of Highways or Designee

- (1) Level I. All claims shall first be submitted at Level I. Two copies each of the claim and supporting documentation shall be submitted simultaneously to the District and the Engineer of Construction. The Engineer of Construction, in consultation with the District, will consider all information submitted with the claim and render a decision on the claim within 90 days after receipt by the Engineer of Construction. Claims not conforming to this Article will be returned without consideration. The Engineer of Construction may schedule a claim presentation meeting if in the Engineer of Construction’s judgment such a meeting would aid in resolution of the claim, otherwise a decision will be made based on the claim documentation submitted. If a Level I decision is not rendered within 90 days of receipt of the claim, or if the Contractor disputes the decision, an appeal to Level II may be made by the Contractor.
- (2) Level II. An appeal to Level II shall be made in writing to the Engineer of Construction within 45 days after the date of the Level I decision. Review of the claim at Level II shall be conducted as a full evaluation of the claim. A claim presentation meeting may be scheduled if the Chief Engineer/Director of Highways determines that such a meeting would aid in resolution of the claim, otherwise a decision will be made based on the claim documentation submitted. A Level II final decision will be rendered within 90 days of receipt of the written request for appeal.

Full compliance by the Contractor with the provisions specified in this Article is a contractual condition precedent to the Contractor’s right to seek relief in the Court of Claims. The Director’s written decision shall be the final administrative action of the Department. Unless the Contractor files a claim for adjudication by the Court of Claims within 60 days after the date of the written decision, the failure to file shall constitute a release and waiver of the claim.”

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000

Revised: January 2, 2015

FEDERAL OBLIGATION. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR Part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR Part 26 and listed in the Illinois Unified Certification Program (IL UCP) DBE Directory.

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STATE OBLIGATION. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. When this Special Provision is used to satisfy state law requirements on 100 percent state-funded contracts, the federal government has no involvement in such contracts (not a federal-aid contract) and no responsibility to oversee the implementation of this Special Provision by the Department on those contracts. DBE participation on 100 percent state-funded contracts will not be credited toward fulfilling the Department's annual overall DBE goal required by the US Department of Transportation to comply with the federal DBE program requirements.

CONTRACTOR ASSURANCE. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor.

The Contractor, subrecipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of contracts funded in whole or in part with federal or state funds. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (a) Withholding progress payments;
- (b) Assessing sanctions;
- (c) Liquidated damages; and/or
- (d) Disqualifying the Contractor from future bidding as non-responsible.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR Part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE companies performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. The determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform **15.00%** of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will only award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set for in this Special Provision:

- (a) The bidder documents that enough DBE participation has been obtained to meet the goal or,
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

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DBE LOCATOR REFERENCES. Bidders shall consult the IL UCP DBE Directory as a reference source for DBE-certified companies. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217) 785-4611, or by visiting the Department's website at www.dot.il.gov.

BIDDING PROCEDURES. Compliance with this Special Provision is a material bidding requirement. The failure of the bidder to comply will render the bid not responsive.

- (a) The bidder shall submit a Disadvantaged Business Utilization Plan on Department forms SBE 2025 and 2026 with the bid.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number, and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. For bidding purposes, submission of the completed SBE 2025 forms, signed by the DBEs and faxed to the bidder will be acceptable as long as the original is available and provided upon request. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The names and addresses of DBE firms that will participate in the contract;
 - (2) A description, including pay item numbers, of the work each DBE will perform;
 - (3) The dollar amount of the participation of each DBE firm participating. The dollar amount of participation for identified work shall specifically state the quantity, unit price, and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount;
 - (4) DBE Participation Commitment Statements, form SBE 2025, signed by the bidder and each participating DBE firm documenting the commitment to use the DBE subcontractors whose participation is submitted to meet the contract goal;
 - (5) If the bidder is a joint venture comprised of DBE companies and non-DBE companies, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s); and,
 - (6) If the contract goal is not met, evidence of good faith efforts; the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor is selected over a DBE for work on the contract.

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GOOD FAITH EFFORT PROCEDURES. The contract will not be awarded until the Utilization Plan submitted by the apparent successful bidder is approved. All information submitted by the bidder must be complete, accurate and adequately document that enough DBE participation has been obtained or document that good faith efforts of the bidder, in the event enough DBE participation has not been obtained, before the Department will commit to the performance of the contract by the bidder. The Utilization Plan will be approved by the Department if the Utilization Plan documents sufficient commercially useful DBE work performance to meet the contract goal or the bidder submits sufficient documentation of a good faith effort to meet the contract goal pursuant to 49 CFR Part 26, Appendix A. The Utilization Plan will not be approved by the Department if the Utilization Plan does not document sufficient DBE participation to meet the contract goal unless the apparent successful bidder documented in the Utilization Plan that it made a good faith effort to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which, by their scope, intensity and appropriateness to the objective, could reasonably be expected to obtain sufficient DBE participation, even if they were not successful. The Department will consider the quality, quantity, and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts, in other words, efforts done as a matter of form, are not good faith efforts; rather, the bidder is expected to have taken genuine efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
- (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime Contractor might otherwise prefer to perform these work items with its own forces.
 - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.

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- (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.
 - b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also the ability or desire of a bidder to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidders are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable. In accordance with Section 6 of the above Bidding Procedures, the documentation of good faith efforts must include copies of each DBE and non-DBE subcontractor quote submitted to the bidder when a non-DBE subcontractor was selected over a DBE for work on the contract.
 - (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The bidder's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the bidder's efforts to meet the project goal.
 - (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
 - (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
 - (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the apparent successful bidder has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that the bidder has failed to meet the requirements of this Special Provision or that a good faith effort has not been made, the Department will notify the responsible company official designated in the Utilization Plan that the bid is not responsive. The notification shall include a statement of reasons for the determination.

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- (c) The bidder may request administrative reconsideration of a determination adverse to the bidder within the five working days after the receipt of the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217) 785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The determination shall become final if a request is not made and delivered. A request may provide additional written documentation or argument concerning the issues raised in the determination statement of reasons, provided the documentation and arguments address efforts made prior to submitting the bid. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of documentation and whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten working days after receipt of the request for consideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid not responsive.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR Part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR Part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100 percent goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100 percent goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100 percent goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime Contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE does not count toward the DBE goal.

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- (d) DBE as a trucker: 100 percent goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed, and insured by the DBE must be used on the contract. Credit will be given for the following:
- (1) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (2) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit only for the fee or commission it receives as a result of the lease arrangement.
- (e) DBE as a material supplier:
- (1) 60 percent goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
 - (2) 100 percent goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
 - (3) 100 percent credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

CONTRACT COMPLIANCE. Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Utilization Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the Contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal. All work indicated for performance by an approved DBE shall be performed, managed, and supervised by the DBE executing the Participation Statement.

- (a) NO AMENDMENT. No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.

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- (b) CHANGES TO WORK. Any deviation from the DBE condition-of-award or contract plans, specifications, or special provisions must be approved, in writing, by the Department as provided elsewhere in the Contract. The Contractor shall notify affected DBEs in writing of any changes in the scope of work which result in a reduction in the dollar amount condition-of-award to the contract. Where the revision includes work committed to a new DBE subcontractor, not previously involved in the project, then a Request for Approval of Subcontractor, Department form BC 260A, must be signed and submitted. If the commitment of work is in the form of additional tasks assigned to an existing subcontract, then a new Request for Approval of Subcontractor shall not be required. However, the Contractor must document efforts to assure that the existing DBE subcontractor is capable of performing the additional work and has agreed in writing to the change.
- (c) SUBCONTRACT. The Contractor must provide DBE subcontracts to IDOT upon request. Subcontractors shall ensure that all lower tier subcontracts or agreements with DBEs to supply labor or materials be performed in accordance with this Special Provision.
- (d) ALTERNATIVE WORK METHODS. In addition to the above requirements for reductions in the condition of award, additional requirements apply to the two cases of Contractor-initiated work substitution proposals. Where the contract allows alternate work methods which serve to delete or create underruns in condition of award DBE work, and the Contractor selects that alternate method or, where the Contractor proposes a substitute work method or material that serves to diminish or delete work committed to a DBE and replace it with other work, then the Contractor must demonstrate one of the following:
- (1) That the replacement work will be performed by the same DBE (as long as the DBE is certified in the respective item of work) in a modification of the condition of award; or
 - (2) That the DBE is aware that its work will be deleted or will experience underruns and has agreed in writing to the change. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so; or
 - (3) That the DBE is not capable of performing the replacement work or has declined to perform the work at a reasonable competitive price. If this occurs, the Contractor shall substitute other work of equivalent value to a certified DBE or provide documentation of good faith efforts to do so.
- (e) TERMINATION AND REPLACEMENT PROCEDURES. The Contractor shall not terminate or replace a DBE listed on the approved Utilization Plan, or perform with other forces work designated for a listed DBE except as provided in this Special Provision. The Contractor shall utilize the specific DBEs listed to perform the work and supply the materials for which each is listed unless the Contractor obtains the Department's written consent as provided in subsection (a). Unless Department consent is provided for termination of a DBE subcontractor, the Contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the DBE listed in the Utilization Plan.

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As stated above, the Contractor shall not terminate or replace a DBE subcontractor listed in the approved Utilization Plan without prior written consent. This includes, but is not limited to, instances in which the Contractor seeks to perform work originally designated for a DBE subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm. Written consent will be granted only if the Bureau of Small Business Enterprises agrees, for reasons stated in its concurrence document, that the Contractor has good cause to terminate or replace the DBE firm. Before transmitting to the Bureau of Small Business Enterprises any request to terminate and/or substitute a DBE subcontractor, the Contractor shall give notice in writing to the DBE subcontractor, with a copy to the Bureau, of its intent to request to terminate and/or substitute, and the reason for the request. The Contractor shall give the DBE five days to respond to the Contractor's notice. The DBE so notified shall advise the Bureau and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why the Bureau should not approve the Contractor's action. If required in a particular case as a matter of public necessity, the Bureau may provide a response period shorter than five days.

For purposes of this paragraph, good cause includes the following circumstances:

- (1) The listed DBE subcontractor fails or refuses to execute a written contract;
- (2) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (3) The listed DBE subcontractor fails or refuses to meet the prime Contractor's reasonable, nondiscriminatory bond requirements;
- (4) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (5) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- (6) You have determined that the listed DBE subcontractor is not a responsible contractor;
- (7) The listed DBE subcontractor voluntarily withdraws from the projects and provides to you written notice of its withdrawal;
- (8) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (9) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract;
- (10) Other documented good cause that compels the termination of the DBE subcontractor. Provided, that good cause does not exist if the prime Contractor seeks to terminate a DBE it relied upon to obtain the contract so that the prime Contractor can self-perform the work for which the DBE contractor was engaged or so that the prime Contractor can substitute another DBE or non-DBE contractor after contract award.

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- When a DBE is terminated, or fails to complete its work on the Contract for any reason the Contractor shall make a good faith effort to find another DBE to substitute for the original DBE to perform at least the same amount of work under the contract as the terminated DBE to the extent needed to meet the established Contract goal. The good faith efforts shall be documented by the Contractor. If the Department requests documentation under this provision, the Contractor shall submit the documentation within seven days, which may be extended for an additional seven days if necessary at the request of the Contractor. The Department shall provide a written determination to the Contractor stating whether or not good faith efforts have been demonstrated.
- (f) PAYMENT RECORDS. The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefore to the DBE by the Contractor, but not later than thirty calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Agreement on Department form SBE 2115 to the Regional Engineer. If full and final payment has not been made to the DBE, the DBE Payment Agreement shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Utilization Plan and after good faith efforts are reviewed, the Department may deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages. The Contractor may request an administrative reconsideration of any amount deducted as damages pursuant to subsection (h) of this part.
- (g) ENFORCEMENT. The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) RECONSIDERATION. Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

Revised 1/14/15

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (BDE)

Effective: November 1, 2012

Revise: January 2, 2015

Revise Section 1031 of the Standard Specifications to read:

“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material produced by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum “Reclaimed Asphalt Shingle (RAS) Sources”, by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 93 percent passing the #4 (4.75 mm) sieve based on a dry shake gradation. RAS shall be uniform in gradation and asphalt binder content and shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. Stockpiles shall be identified by signs indicating the type as listed below (i.e. “Homogeneous Surface”).

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Prior to milling, the Contractor shall request the District provide documentation on the quality of the RAP to clarify the appropriate stockpile.

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be fractionated prior to testing by screening into a minimum of two size fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP shall pass the sieve size specified below for the mix into which the FRAP will be incorporated.

Mixture FRAP will be used in:	Sieve Size that 100% of FRAP Shall Pass
IL-25.0	2 in. (50 mm)
IL-19.0	1 1/2 in. (40 mm)
IL-12.5	1 in. (25 mm)
IL-9.5	3/4 in. (20 mm)
IL-4.75	1/2 in. (13 mm)

- (2) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures and represent: 1) the same aggregate quality, but shall be at least C quality; 2) the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag); 3) similar gradation; and 4) similar asphalt binder content. If approved by the Engineer, combined single pass surface/binder millings may be considered "homogenous" with a quality rating dictated by the lowest coarse aggregate quality present in the mixture.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, HMA (High and Low ESAL) mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 5/8 in. (16 mm) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from Class I, HMA (High or Low ESAL), or "All Other" (as defined by Article 1030.04(a)(3)) mixtures. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

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RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. Type 1 and Type 2 RAS shall be stockpiled separately and shall not be intermingled. Each stockpile shall be signed indicating what type of RAS is present.

Unless otherwise specified by the Engineer, mechanically blending manufactured sand (FM 20 or FM 22) up to an equal weight of RAS with the processed RAS will be permitted to improve workability. The sand shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The sand shall be accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. RAP/FRAP and RAS testing shall be according to the following.

- (a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during or after stockpiling.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Each sample shall be split to obtain two equal samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

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- (b) RAS Testing. RAS or RAS blended with manufactured sand shall be sampled and tested during stockpiling according to Illinois Department of Transportation Policy Memorandum, "Reclaimed Asphalt Shingle (RAS) Source".

Samples shall be collected during stockpiling at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 250 tons (225 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS or RAS blended with manufactured sand shall be stockpiled in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

Before testing, each sample shall be split to obtain two test samples. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall perform a washed extraction and test for unacceptable materials on the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

If the sampling and testing was performed at the shingle processing facility in accordance with the QC Plan, the Contractor shall obtain and make available all of the test results from start of the initial stockpile.

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1031.04 Evaluation of Tests. Evaluation of tests results shall be according to the following.

- (a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable G_{mm} . Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	FRAP/Homogeneous /Conglomerate	Conglomerate "D" Quality
1 in. (25 mm)		± 5 %
1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 µm)	± 5 %	
No. 200 (75 µm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % ^{1/}	± 0.5 %
G_{mm}	± 0.03	

1/ The tolerance for FRAP shall be ± 0.3 %.

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

- (b) Evaluation of RAS and RAS Blended with Manufactured Sand Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.0 %
Asphalt Binder Content	± 1.5 %

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If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, or if the percent unacceptable material exceeds 0.5 percent by weight of material retained on the # 4 (4.75 mm) sieve, the RAS or RAS blend shall not be used in Department projects. All test data and acceptance ranges shall be sent to the District for evaluation.

1031.05 Quality Designation of Aggregate in RAP/FRAP.

(a) RAP. The aggregate quality of the RAP for homogenous, conglomerate, and conglomerate "D" quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

(1) RAP from Class I, Superpave/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.

(2) RAP from Superpave/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.

(3) RAP from Class I, Superpave/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.

(4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

(b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Coarse and fine FRAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant prequalified by the Department for the specified testing. The consultant shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the BMPR Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications.

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1031.06 Use of RAP/FRAP and/or RAS in HMA. The use of RAP/FRAP and/or RAS shall be a Contractor's option when constructing HMA in all contracts.

(a) RAP/FRAP. The use of RAP/FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size. The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. Homogeneous RAP stockpiles containing steel slag will be approved for use in all HMA (High ESAL and Low ESAL) Surface and Binder Mixture applications.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall be FRAP or homogeneous in which the coarse aggregate is Class B quality or better. RAP/FRAP from Conglomerate stockpiles shall be considered equivalent to limestone for frictional considerations. Known frictional contributions from plus #4 (4.75 mm) homogeneous RAP and FRAP stockpiles will be accounted for in meeting frictional requirements in the specified mixture.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP, homogeneous, or conglomerate, in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be FRAP, homogeneous, conglomerate, or conglomerate DQ.
- (6) When the Contractor chooses the RAP option, the percentage of RAP shall not exceed the amounts indicated in Article 1031.06(c)(1) below for a given N Design.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

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(c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

(1) RAP/RAS. When RAP is used alone or RAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the Max RAP/RAS ABR table listed below for the given Ndesign.

RAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures ^{1/, 2/}	RAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified
30	30	30	10
50	25	15	10
70	15	10	10
90	10	10	10
105	10	10	10

1/ For HMA “All Other” (shoulder and stabilized subbase) N-30, the RAP/RAS ABR shall not exceed 50 percent of the mixture.

2/ When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when RAP/RAS ABR exceeds 25 percent (i.e. 26 percent RAP/RAS ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

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- (2) FRAP/RAS. When FRAP is used alone or FRAP is used in conjunction with RAS, the percentage of virgin asphalt binder replacement shall not exceed the amounts listed in the FRAP/RAS table listed below for the given N design.

FRAP/RAS Maximum Asphalt Binder Replacement (ABR) Percentage

HMA Mixtures <i>1/, 2/</i>	FRAP/RAS Maximum ABR %		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/, 4/}
30	50	40	10
50	40	35	10
70	40	30	10
90	40	30	10
105	40	30	10

- 1/ For HMA “All Other” (shoulder and stabilized subbase) N30, the FRAP/RAS ABR shall not exceed 50 percent of the mixture.
- 2/ When FRAP/RAS ABR exceeds 20 percent for all mixes the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). If warm mix asphalt (WMA) technology is utilized, and production temperatures do not exceed 275 °F (135 °C) the high and low virgin asphalt binder grades shall each be reduced by one grade when FRAP/RAS ABR exceeds 25 percent (i.e. 26 percent ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).
- 3/ For SMA the FRAP/RAS ABR shall not exceed 20 percent.
- 4/ For IL-4.75 mix the FRAP/RAS ABR shall not exceed 30 percent.

1031.07 HMA Mix Designs. At the Contractor’s option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the detailed requirements specified herein.

- (a) RAP/FRAP and/or RAS. RAP/FRAP and/or RAS mix designs shall be submitted for verification. If additional RAP/FRAP stockpiles are tested and found that no more than 20 percent of the results, as defined under “Testing” herein, are outside of the control tolerances set for the original RAP/FRAP stockpile and HMA mix design, and meets all of the requirements herein, the additional RAP/FRAP stockpiles may be used in the original mix design at the percent previously verified.
- (b) RAS. Type 1 and Type 2 RAS are not interchangeable in a mix design. A RAS stone bulk specific gravity (Gsb) of 2.300 shall be used for mix design purposes.

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1031.08 HMA Production. HMA production utilizing RAP/FRAP and/or RAS shall be as follows.

- (a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the nominal maximum size requirement for the HMA mixture being produced.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If the RAP/FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP/FRAP and either switch to the virgin aggregate design or submit a new RAP/FRAP design.

- (b) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

- (c) RAP/FRAP and/or RAS. HMA plants utilizing RAP/FRAP and/or RAS shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAP/FRAP/RAS in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.

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- g. Residual asphalt binder in the RAP/FRAP material as a percent of the total mix to the nearest 0.1 percent.
 - h. Aggregate and RAP/FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAP/FRAP are printed in wet condition.)
- (2) Batch Plants.
- a. Date, month, year, and time to the nearest minute for each print.
 - b. HMA mix number assigned by the Department.
 - c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
 - d. Mineral filler weight to the nearest pound (kilogram).
 - e. RAP/FRAP/RAS weight to the nearest pound (kilogram).
 - f. Virgin asphalt binder weight to the nearest pound (kilogram).
 - g. Residual asphalt binder in the RAP/FRAP/RAS material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP in aggregate surface course (temporary access entrances only) and aggregate wedge shoulders Type B shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply. RAP used to construct aggregate surface course and aggregate shoulders shall be according to the current Bureau of Materials and Physical Research's Policy Memorandum, "Reclaimed Asphalt Pavement (RAP) for Aggregate Applications".
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5 mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single sized will not be accepted."

Revised 1/14/15

VERTICAL CLEARANCE GAUGE

Description. This work shall consist of all labor, materials and equipment necessary to design, furnish and install the vertical clearance gauges as shown in the plans, specified herein, and as directed by the Engineer. The gauges indicate the vertical clearance between the low steel of the bridge span above the navigation channel and the level of the water, measured to the bottom of the foot marks and read from top to bottom. The locations of the gauges are shown in the plans.

Construction Requirements.

The gauges shall meet the applicable U.S. Coast Guard requirements, including Title 33 “Navigation and Navigable Waters”, Part 118 “Bridge Lighting and Other Signals” of the Code of Federal Regulations (33 CFR 118). The CFR is available online at: <http://www.ecfr.gov> and the U.S. Coast Guard Bridge Lighting Manual is available online at: <http://www.uscg.mil/hq/cg5/cg551/Lighting.pdf>.

The gauges shall be composed of white reflective aluminum sign panel with black gauge markings and numerals. The sign panel shall be reinforced with steel frame as required by the manufacturer’s design. The sign panel shall be attached to the concrete pier according to the manufacturer’s design and details for the sign supports. The design and details of the sign panel and the support brackets will be subject to approval by the Engineer.

The clearance markings shall be verified by measuring the vertical clearance relative to the low steel of the bridge span.

Submittals. Complete design calculations and details of the sign panels, including but not limited to the proposed materials, panel reinforcement, installation brackets and paint system, shall be submitted to the Engineer for approval prior to fabrication.

Basis of Payment. This work will be paid at the contract unit price per Each for VERTICAL CLEARANCE GAUGE.

WORK RESTRICTIONS

Parcel 6128129 (Flynn property) will not be available for any construction activities until archaeologists have completed their investigations within the limits of the entire Flynn property. Construction activities shall not block access to the Flynn property or otherwise hinder the archaeological investigations.

Revised 1/14/15

IDNR PERMIT



**Illinois Department of
Natural Resources**

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

file
Pat Quinn, Governor
Marc Miller, Acting Director

October 20, 2014

SUBJECT: Permit No. DS2014069
Bridge Replacement
Illinois Route 104 over Illinois River
F.A.P. RTE, 745 – SEC. 123B-2
Structure No. 069-0525
Morgan and Pike Counties

Illinois Department of Transportation
District 6
ATTN: Roger Driskell
126 East Ash Street
Springfield, Illinois 62704

Dear Mr. Driskell:

Enclosed is Illinois Department of Natural Resources, Office of Water Resources Permit No. DS2014069 authorizing the subject project. This approval is based on our determination that the project will neither appreciably restrict the river's flood carrying capacity nor adversely impact the public's interests in the public body of water and therefore complies with our Part 3700 Floodway Construction and Part 3704 Public Waters rules. In addition to the general conditions of the permit, this approval is subject to the following special conditions:

- a) The construction of temporary cofferdams for pier construction is authorized by this permit. The cofferdams shall be constructed and marked such that they will not unnecessarily interfere with navigation of the river or create a hazard to boating safety;
- b) The construction of temporary work platforms or causeways within the river will require further Illinois Department of Natural Resources, Office of Water Resources authorization; and
- c) Bridge removal shall be conducted such that it will not unnecessarily interfere with navigation of the river or create a hazard to boating safety. The existing piers shall be removed such that they will not become a future hazard.

This permit does not supersede any other federal, state or local authorizations that may be required for the project. If any changes of the permitted work are found necessary, revised plans should be submitted promptly to this office for review and approval. Also, this permit expires on the date indicated in Condition (13). If unable to complete the work by that date, the permittee may make a written request for a time extension.

Added 1/14/15

Illinois Department of Transportation/District 6
Page 2
October 20, 2014

Upon receipt and review of this permit and all of its conditions, please properly execute and return the attached acceptance blank within sixty (60) days from the date of the permit. Please feel free to contact Jason Campbell of my staff at 217/558-4532 if you have any questions concerning this authorization.

Sincerely,

Michael L. Diedrichsen, P.E.
Acting Manager, Downstate Regulatory Programs


MLD:JRC:crw
Enclosure

cc: IDOT Bureau of Bridges (D. Carl Puzey)
USACE, St. Louis District (Regulatory Branch- MVS-2013-631)

Added 1/14/15



PERMIT NO. DS2014069
DATE: OCTOBER 20, 2014

State of Illinois
Department of Natural Resources, Office of Water Resources

Permission is hereby granted to:

ILLINOIS DEPARTMENT OF TRANSPORTATION – DISTRICT 6
126 EAST ASH STREET
SPRINGFIELD, ILLINOIS 62704

to replace the existing bridge carrying IL 104 over the Illinois River at Meredosia in Section 6, Township 3 South, Range 1 West of the 4th Principal Meridian in Pike County and Section 21, Township 16 North, Range 13 West of the 3rd Principal Meridian in Morgan County,

in accordance with an application dated September 24, 2013, and the plans and specifications entitled:

ILLINOIS ROUTE 104 OVER ILLINOIS RIVER (PUBLIC WATER)
F.A.P. RTE. 745-SEC. 123B-2
MORGAN COUNTY, STATION 71+19.00
STRUCTURE NO. 069-0525

(Sheets 1 - 5 of 5, Approved on 8/19/13) as a basis for preparation of detailed plans).

Examined and Recommended:

Michael L. Diedrichsen, Manager
Downstate Regulatory Programs

Approval Recommended:

Arlan R. Juhl, Director
Office of Water Resources

Approved:

Marc Miller, Director
Department of Natural Resources

This PERMIT is subject to the terms and special conditions contained herein.

Added 1/14/15

PERMIT NO. DS2014069

THIS PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS:

- 1) This permit is granted in accordance with the Rivers, Lakes and Streams Act "615 ILCS 5."
- 2) This permit does not convey title to the permittee or recognize title of the permittee to any submerged or other lands, and furthermore, does not convey, lease or provide any right or rights of occupancy or use of the public or private property on which the activity or any part thereof will be located, or otherwise grant to the permittee any right or interest in or to the property, whether the property is owned or possessed by the State of Illinois or by any private or public party or parties.
- 3) This permit does not release the permittee from liability for damage to persons or property resulting from the work covered by this permit, and does not authorize any injury to private property or invasion of private rights.
- 4) This permit does not relieve the permittee of the responsibility to obtain other federal, state or local authorizations required for the construction of the permitted activity; and if the permittee is required by law to obtain approvals from any federal or other state agency to do the work, this permit is not effective until the federal and state approvals are obtained.
- 5) The permittee shall, at the permittee's own expense, remove all temporary piling, cofferdams, false work, and material incidental to the construction of the project. If the permittee fails to remove such structures or materials, the Department may have removal made at the expense of the permittee.
- 6) In public waters, if future need for public navigation or other public interest by the state or federal government necessitates changes in any part of the structure or structures, such changes shall be made by and at the expense of the permittee or the permittee's successors as required by the Department or other properly constituted agency, within sixty (60) days from receipt of written notice of the necessity from the Department or other agency, unless a longer period of time is specifically authorized.
- 7) The execution and details of the work authorized shall be subject to the review and approval of the Department. Department personnel shall have the right of access to accomplish this purpose.
- 8) Starting work on the activity authorized will be considered full acceptance by the permittee of the terms and conditions of the permit.
- 9) The Department in issuing this permit has relied upon the statements and representations made by the permittee; if any substantive statement or representation made by the permittee is found to be false, this permit will be revoked, and when revoked, all rights of the permittee under the permit are voided.
- 10) In public waters, the permittee and the permittee's successors shall make no claim whatsoever to any interest in any accretions caused by the activity.
- 11) In issuing this permit, the Department does not ensure the adequacy of the design or structural strength of the structure or improvement.
- 12) Noncompliance with the conditions of this permit will be considered grounds for revocation.
- 13) If the construction activity permitted is not completed on or before December 31, 2017, this permit shall cease and be null and void.

THIS PERMIT IS SUBJECT TO THE FOLLOWING SPECIAL CONDITIONS:

- a) The construction of temporary cofferdams for pier construction is authorized by this permit. The cofferdams shall be constructed and marked such that they will not unnecessarily interfere with navigation of the river or create a hazard to boating safety.
- b) The construction of temporary work platforms or causeways within the river will require further Illinois Department of Natural Resources, Office of Water Resources authorization.
- c) Bridge removal shall be conducted such that it will not unnecessarily interfere with navigation of the river or create a hazard to boating safety. The existing piers shall be removed such that they will not become a future hazard.

Added 1/14/15

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

This work shall be according to Article 669 of the Standard Specifications and the following:

Qualifications. The term environmental firm shall mean an environmental firm with at least five (5) documented leaking underground storage tank (LUST) cleanups or that is pre-qualified in hazardous waste by the Department. Documentation includes but not limited to verifying remediation and special waste operations for sites contaminated with gasoline, diesel, or waste oil in accordance with all Federal, State, or local regulatory requirements and shall be provided to the Engineer for approval. The environmental firm selected shall not be a former or current consultant or have any ties with any of the properties contained within and/or adjacent to this construction project.

General. This Special Provision will likely require the Contractor to subcontract for the execution of certain activities.

All contaminated materials shall be managed as either “uncontaminated soil” or non-special waste. This work shall include monitoring and potential sampling, analytical testing, and management of a material contaminated by regulated substances. The Environmental Firm shall continuously monitor all soil excavation for worker protection and soil contamination. **Phase I Preliminary Engineering information is available through the District’s Environmental Studies Unit.** Soil samples or analysis without the approval of the Engineer will be at no additional cost to the Department. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit whichever is less.

The Contractor shall manage any excavated soils and sediment within the following areas:

- Station 44+50 to Station 52+00 (Proposed IL 104) 0 to 100 feet LT/RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 10+70 to Station 11+80 (Proposed Meredosia Terminal) 0 to 130 feet RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Arsenic and Manganese.
- Station 87+00 to Station 88+60 (Proposed IL 104) 0 to 70 feet LT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene, Lead, and Manganese.
- Station 87+00 to Station 88+60 (Proposed IL 104) 0 to 120 feet RT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead.
- Station 89+50 to Station 90+70 (Proposed IL 104) 0 to 50 feet RT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead.

Added 1/14/15

- Station 89+50 to Station 90+70 (Proposed IL 104) 0 to 110 feet LT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene and Lead.
- Station 486+40 to Station 489+80 (Proposed Main Street) 0 to 60 feet RT (Cargill Inc., PESA Site 1739-4, Southeast Quadrant of IL 104 and Meredosia Bridge). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene, Lead, and Manganese.
- Station 102+50 to Station 103+50 (Proposed IL 104) 0 to 60 feet LT (Meredosia-Chambersburg School, PESA Site 1739V-27, 830 Main Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 136+00 to Station 138+00 00 (Proposed IL 104) 0 to 60 feet RT (Advanced Automotive Repair Inc., PESA Site 1739V-47, 1051 IL 104). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 139+00 to Station 140+00 00 (Proposed IL 104) 0 to 60 feet RT (Advanced Automotive Repair Inc., PESA Site 1739V-47, 1051 IL 104). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 55+90 to Station 59+00 (Proposed IL 104) 0 to 160 feet LT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 54+50 to Station 56+00 (Proposed IL 104) 0 to 100 feet RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 7+50 to Station 9+00 (Proposed Meredosia Terminal) 0 to 100 feet RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 10+00 to Station 10+70 (Proposed Meredosia Terminal) 0 to 130 feet RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 11+80 to Station 12+60 (Proposed Meredosia Terminal) 0 to 100 feet RT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 6+50 to Station 10+00 (Proposed Meredosia Terminal) 0 to 130 feet LT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.

Added 1/14/15

- Station 10+00 to Station 12+00 (Proposed Meredosia Terminal) 0 to 100 feet LT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 66+30 to Station 67+70 (Proposed IL 104) 0 to 100 feet LT/RT (Vacant Land, PESA Site 1739V-4, 2950 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 79+50 to Station 83+00 (Proposed IL 104) 0 to 150 feet RT (Vacant Lot, PESA Site 1739-D, 200 block of Main Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 746+00 to Station 749+50 (North Alley) 0 to 15 feet RT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 486+40 to Station 490+20 (Proposed Main Street) 0 to 80 feet LT (Cargill Inc., PESA Site 1739-4, Southeast Quadrant of IL 104 and Meredosia Bridge). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 94+30 to Station 96+00 (Proposed IL 104) 60 to 170 feet LT (Residence, PESA Site 1739V-19, 610 Main Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead.
- Station 97+30 to Station 98+20 (Proposed IL 104) 0 to 60 feet LT (Vacant Building, PESA Site 1739V-23, 710 Main Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 104+50 to Station 105+50 (Proposed IL 104) 0 to 60 feet LT (Meredosia-Chambersburg School, PESA Site 1739V-27, 830 Main Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead.
- Station 111+50 to Station 114+00 (Proposed IL 104) 0 to 60 feet RT (Phillips 66 and Andrews Mart, PESA Site 1739V-31, 891 Main Street). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 122+00 to Station 124+00 (Proposed IL 104) 0 to 60 feet LT (Quality Turbine Repair Inc., PESA Site 1739V-38, 924 IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 122+50 to Station 123+80 (Proposed IL 104) 0 to 60 feet RT (Vacant Building, PESA Site 1739V-39, 993 IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 123+80 to Station 125+50 (Proposed IL 104) 0 to 60 feet RT (Shed, PESA Site 1739V-40, 900 block of IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.

- Station 131+70 to Station 133+00 (Proposed IL 104) 0 to 60 feet LT (Cottonwood Automotive Repair, PESA Site 1739V-46, 1014 IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 133+50 to Station 134+00 (Proposed IL 104) 0 to 60 feet LT (Cottonwood Automotive Repair, PESA Site 1739V-46, 1014 IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 134+00 to Station 135+00 (Proposed IL 104) 0 to 60 feet RT (Advanced Automotive Repair Inc., PESA Site 1739V-47, 1051 IL 104). This material meets the criteria of Article 669.09(a)(2) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 79+50 to Station 83+00 (Proposed IL 104) 0 to 150 feet LT (Vacant Land, PESA Site 1739V-8, 100 block of Ojer Street). This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene and Manganese.
- Station 88+60 to Station 89+50 (Proposed IL 104) 0 to 70 feet LT (Vacant Lot, PESA Site 1739V-12, 124 North Green Street). This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene, Lead, and Manganese.
- Station 490+45 to Station 492+20 (Proposed Main Street) 0 to 60 feet LT (Boilermakers Local Lodge 484, PESA Site 1739-E, 302 Main Street). This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene and Manganese.
- Station 99+80 to Station 100+60 (Proposed IL 104) 0 to 60 feet LT (Clark Gasoline Station, PESA Site 1739V-26, 724 Main Street). This material meets the criteria of Article 669.09(a)(3) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene.
- Station 94+30 to Station 95+40 (Proposed IL 104) 0 to 60 feet LT/RT (Residence, PESA Site 1739V-19, 610 Main Street). This material meets the criteria of Article 669.09(a)(4) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(b)Fluoranthene, and Dibenzo(a,h)Anthracene.
- Station 54+50 to Station 55+90 (Proposed IL 104) 0 to 160 feet LT (Meredosia Terminal, PESA Site 1739V-3, 2950 block of IL 104). This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance to Article 669.09.
- Station 138+00 to Station 139+00 (Proposed IL 104) 0 to 60 feet RT (Advanced Automotive Repair Inc., PESA Site 1739V-47, 1051 IL 104). This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance to Article 669.09.
- Station 95+40 to Station 96+50 (Proposed IL 104) 0 to 60 feet LT/RT (Residence, PESA Site 1739V-19, 610 Main Street). This material meets the criteria of Article 669.09(b)(2) and shall be managed in accordance to Article 669.09.
- Station 101+50 to Station 102+50 (Proposed IL 104) 0 to 60 feet LT/RT (Clark Gasoline Station, PESA Site 1739V-26, 724 Main Street). This material meets the criteria of Article 669.09(b)(2) and shall be managed in accordance to Article 669.09.
- Station 103+50 to Station 104+50 (Proposed IL 104) 0 to 60 feet LT (Meredosia-Chambersburg School, PESA Site 1739V-27, 830 Main Street). This material meets the criteria of Article 669.09(b)(2) and shall be managed in accordance to Article 669.09.

Backfill plugs shall be place within the following locations.

1. Station 111+50 to Station 114+00 (Proposed IL 104) 0 to 60 feet RT (Phillips 66 and Andrews Mart, PESA Site 1739V-31, 891 Main Street). Contaminants of concern sampling parameters: Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(b)Fluoranthene, Benzo(k)Fluoranthene, and Manganese

Added 1/14/15