



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

June 4, 2012

SUBJECT: FAP Route 75 (IL 29)
Project ACF-HPP-0075 (156)
Section 84-12; 11-3
Sangamon & Christian Counties
Contract No. 72829
Item No. 217, June 15, 2012 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 sheets 3, 4, 8, 9, 21, 24, 25, 48 and 61 of the Plans.
3. Revised pages iii and iv of the Table of Contents to the Special Provisions.
4. Revised pages 10, 23, 42 and 45 of the Special Provisions.
5. Added pages 233 – 237 to the Special Provisions.

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' followed by a small 'P.E.' monogram.

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

cc: Roger Driskell, Region 4, District 6; Mike Renner; D.Carl Puzey;
Estimates

TBW/DB/III

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER -

72829

State Job # - C-96-505-07

County Name - CHRISTIAN- SANGAMON-

Code - 21 - 167 -

District - 6 - 6 -

Section Number - 84-12; 11-3

Project Number
ACF-HPP-0075/156/

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0321309	CONCRETE PAD	SQ YD	672.000				
X0325451	NON-SHRINK GROUT	CU FT	50.000				
X0327395	ID DISP EXIST RR TIES	L SUM	1.000				
X2020105	GRADING & SHAP BIKWAY	UNIT	109.000				
X2020500	EARTH EXC - ROCKFILL	CU YD	2,670.000				
X2111100	TOPSOIL EXC & PLAC SP	CU YD	4,555.000				
X2130010	EXPLOR TRENCH SPL	FOOT	71,780.000				
X2503000	MAINTENANCE MOWING	ACRE	488.000				
X2503321	INTERSEED CL 5 MOD	ACRE	20.000				
X4021000	TEMP ACCESS- PRIV ENT	EACH	8.000				
X4022000	TEMP ACCESS- COM ENT	EACH	3.000				
X4023000	TEMP ACCESS- ROAD	EACH	6.000				
X4024000	TEMP ACCESS- FLD ENT	EACH	50.000				
X4401198	HMA SURF REM VAR DP	SQ YD	26,816.000				
X5011100	FOUNDATION REM	EACH	1.000				

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X5401207	PCBC 12X7 SPECIAL	FOOT	390.000				
X5420642	PIPE CULV CLEANED 42	FOOT	29.000				
X6660410	REMOVE ROW MARKERS	EACH	15.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7830072	GRV RCSD PVT MRKG 6	FOOT	205,756.000				
X8410102	TEMP LIGHTING SYSTEM	L SUM	1.000				
Z0005010	HMA F PATCH (C M)	TON	100.000				
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				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0022800	FENCE REMOVAL	FOOT	1,427.000				
Z0023602	GRAN CULVERT BACKFILL	CU YD	2,856.000				
Z0026305	FUR & MAIN AUTO VEH	CAL MO	60.000				
Z0030260	IMP ATTN TEMP FRN TL3	EACH	2.000				

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Z0034105	MATL TRANSFER DEVICE	TON	46,072.000				
Z0041500	PLUG EX CULVERTS	EACH	1.000				
Z0049901	R&D NON-FR ASB BLD 1	L SUM	1.000				
*DELETE Z0054515	ROCK FILL - EMBANK	TON	5,150.000				
Z0054517	ROCK FILL - FOUNDATN	TON	4,875.000				
*ADD Z0054530	ROCK FILL - SUBGRADE	TON	5,150.000				
Z0073002	TEMP SOIL RETEN SYSTM	SQ FT	364.000				
20100110	TREE REMOV 6-15	UNIT	62.000				
20100210	TREE REMOV OVER 15	UNIT	226.000				
20100500	TREE REMOV ACRES	ACRE	4.500				
20101000	TEMPORARY FENCE	FOOT	12,094.000				
20200100	EARTH EXCAVATION	CU YD	317,981.000				
20300100	CHANNEL EXCAVATION	CU YD	400.000				
20400800	FURNISHED EXCAVATION	CU YD	382,586.000				
20700220	POROUS GRAN EMBANK	CU YD	1,711.000				

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20800150	TRENCH BACKFILL	CU YD	4,385.000				
21101505	TOPSOIL EXC & PLAC	CU YD	78,371.000				
21400100	GRADING & SHAP DITCH	FOOT	1,000.000				
25000200	SEEDING CL 2	ACRE	188.000				
25000350	SEEDING CL 7	ACRE	244.000				
25000400	NITROGEN FERT NUTR	POUND	16,932.000				
25000500	PHOSPHORUS FERT NUTR	POUND	16,932.000				
25000600	POTASSIUM FERT NUTR	POUND	16,932.000				
25000700	AGR GROUND LIMESTONE	TON	376.300				
25100115	MULCH METHOD 2	ACRE	432.000				
25100630	EROSION CONTR BLANKET	SQ YD	286,804.000				
25200200	SUPPLE WATERING	UNIT	1,786.000				
28000200	EARTH EXC - EROS CONT	CU YD	1,000.000				
28000250	TEMP EROS CONTR SEED	POUND	12,200.000				
28000305	TEMP DITCH CHECKS	FOOT	4,858.000				

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28000400	PERIMETER EROS BAR	FOOT	19,706.000				
28000500	INLET & PIPE PROTECT	EACH	151.000				
28001000	AGGREGATE - EROS CONT	TON	500.000				
28100107	STONE RIPRAP CL A4	SQ YD	1,530.000				
28100109	STONE RIPRAP CL A5	SQ YD	3,170.000				
28100125	STONE RIPRAP CL B3	SQ YD	5,309.000				
28200200	FILTER FABRIC	SQ YD	17,249.000				
30200650	PROCESS MOD SOIL 12	SQ YD	362,836.000				
30201500	LIME	TON	7,256.600				
31101200	SUB GRAN MAT B 4	SQ YD	8,481.000				
31101900	SUB GRAN MAT C	TON	29,676.700				
35100300	AGG BASE CSE A 4	SQ YD	80.000				
35100900	AGG BASE CSE A 10	SQ YD	56,922.000				
35101100	AGG BASE CSE A 12	SQ YD	4,865.000				
40200800	AGG SURF CSE B	TON	2,946.000				

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40300100	BIT MATLS PR CT	GALLON	9,821.000				
40300300	BIT MATLS C&S CT	GALLON	29,463.000				
40300500	COVER COAT AGG	TON	491.000				
40300600	SEAL COAT AGG	TON	245.500				
40600200	BIT MATLS PR CT	TON	514.700				
40600300	AGG PR CT	TON	65.800				
40600625	LEV BIND MM N50	TON	1,126.300				
40600895	CONSTRUC TEST STRIP	EACH	6.000				
40600990	TEMPORARY RAMP	SQ YD	436.000				
40603080	HMA BC IL-19.0 N50	TON	969.700				
40603310	HMA SC "C" N50	TON	2,834.300				
40701871	HMA PAVT FD 9 1/2	SQ YD	35,072.000				
40701881	HMA PAVT FD 10	SQ YD	7,922.000				
40701956	HMA PAVT FD 13 3/4	SQ YD	215,383.000				
44000100	PAVEMENT REM	SQ YD	85,715.000				

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44000157	HMA SURF REM 2	SQ YD	1,859.000				
44004250	PAVED SHLD REMOVAL	SQ YD	6,897.000				
*DELETE 44200970	CL B PATCH T2 10	SQ YD	1,500.000				
44201765	CL D PATCH T2 10	SQ YD	1,572.000				
44201769	CL D PATCH T3 10	SQ YD	82.000				
44201771	CL D PATCH T4 10	SQ YD	100.000				
*DELETE 48100100	AGGREGATE SHLDS A	TON	19,044.600				
*DELETE 48100700	AGGREGATE SHLDS A 8	SQ YD	19,265.000				
*ADD 48101200	AGGREGATE SHLDS B	TON	27,139.800				
48203005	HMA SHOULDERS 2	SQ YD	1,904.000				
48203029	HMA SHOULDERS 8	SQ YD	115,163.000				
50100100	REM EXIST STRUCT	EACH	15.000				
50800105	REINFORCEMENT BARS	POUND	132,780.000				
50800205	REINF BARS, EPOXY CTD	POUND	230.000				
54003000	CONC BOX CUL	CU YD	640.000				

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54010402	PCBC 4X2	FOOT	168.000				
54010503	PCBC 5X3	FOOT	450.000				
54011005	PCBC 10X5	FOOT	336.000				
54011006	PCBC 10X6	FOOT	324.000				
542A0220	P CUL CL A 1 15	FOOT	57.000				
542A0223	P CUL CL A 1 18	FOOT	211.000				
542A0229	P CUL CL A 1 24	FOOT	993.000				
542A1057	P CUL CL A 2 12	FOOT	28.000				
542A1063	P CUL CL A 2 18	FOOT	119.000				
542A1069	P CUL CL A 2 24	FOOT	4,702.000				
542A1081	P CUL CL A 2 36	FOOT	117.000				
542A5479	P CUL CL A 1 EQRS 24	FOOT	145.000				
542A5491	P CUL CL A 1 EQRS 36	FOOT	118.000				
542D0217	P CUL CL D 1 12	FOOT	414.000				
542D0220	P CUL CL D 1 15	FOOT	1,008.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
542D0223	P CUL CL D 1 18	FOOT	57.000				
542D0229	P CUL CL D 1 24	FOOT	104.000				
542D1069	P CUL CL D 2 24	FOOT	105.000				
5421D024	P CUL CL D 1 24 TEMP	FOOT	576.000				
5421D036	P CUL CL D 1 36 TEMP	FOOT	50.000				
5421D048	P CUL CL D 1 48 TEMP	FOOT	107.000				
54213660	PRC FLAR END SEC 15	EACH	2.000				
54213663	PRC FLAR END SEC 18	EACH	13.000				
54213669	PRC FLAR END SEC 24	EACH	77.000				
54213681	PRC FLAR END SEC 36	EACH	5.000				
54214719	PRCF END S EL EQRS 24	EACH	8.000				
54214731	PRCF END S EL EQRS 36	EACH	6.000				
54215547	MET END SEC 12	EACH	10.000				
54215550	MET END SEC 15	EACH	36.000				
54215553	MET END SEC 18	EACH	2.000				

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54215559	MET END SEC 24	EACH	6.000				
54244405	FL INLT BX MED 542546	EACH	6.000				
54245205	INLET BOX 542511	EACH	4.000				
550A0120	STORM SEW CL A 1 24	FOOT	196.000				
550A0410	STORM SEW CL A 2 24	FOOT	94.000				
550B0090	STORM SEW CL B 1 18	FOOT	3,804.000				
550B0340	STORM SEW CL B 2 12	FOOT	500.000				
550B0380	STORM SEW CL B 2 18	FOOT	8,263.000				
550B0680	STORM SEW CL B 3 18	FOOT	5,735.000				
55200600	STORM SEWERS JKD 18	FOOT	638.000				
59300100	CONTR LOW-STRENG MATL	CU YD	20.000				
60100060	CONC HDWL FOR P DRAIN	EACH	351.000				
60100915	PIPE DRAINS 6	FOOT	250.000				
60100925	PIPE DRAINS 8	FOOT	250.000				
60100935	PIPE DRAINS 10	FOOT	250.000				

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60100945	PIPE DRAINS 12	FOOT	250.000				
60100955	PIPE DRAINS 15	FOOT	250.000				
60100965	PIPE DRAINS 18	FOOT	250.000				
60107600	PIPE UNDERDRAINS 4	FOOT	130,062.000				
60108100	PIPE UNDERDRAIN 4 SP	FOOT	4,038.000				
60221100	MAN TA 5 DIA T1F CL	EACH	10.000				
60222805	MAN TA 5D M IN 604106	EACH	46.000				
60238305	INLET TA M INL 604101	EACH	2.000				
60246805	MED INLET (604106)	EACH	8.000				
61100605	MISC CONCRETE	CU YD	50.000				
61101007	STORM SEW PROT A 6	FOOT	1,500.000				
61101009	STORM SEW PROT A 8	FOOT	500.000				
61101013	STORM SEW PROT A 12	FOOT	5,000.000				
61101017	STORM SEW PROT A 15	FOOT	1,000.000				
61101020	STORM SEW PROT A 18	FOOT	1,000.000				

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61101026	STORM SEW PROT A 24	FOOT	2,500.000				
61133100	FLD TILE JUN VAULT 2D	EACH	25.000				
61133200	FLD TILE JUN VAULT 3D	EACH	50.000				
61133300	FLD TILE JUN VAULT 4D	EACH	50.000				
61133400	FLD TILE JUN VAULT 5D	EACH	25.000				
61139900	STORM SEWER SPEC 6	FOOT	1,500.000				
61140000	STORM SEWER SPEC 8	FOOT	500.000				
61140100	STORM SEWER SPEC 10	FOOT	1,500.000				
61140200	STORM SEWER SPEC 12	FOOT	2,500.000				
61140400	STORM SEWER SPEC 15	FOOT	500.000				
61140600	STORM SEWER SPEC 18	FOOT	500.000				
61140900	STORM SEWER SPEC 24	FOOT	1,500.000				
63000001	SPBGR TY A 6FT POSTS	FOOT	172.500				
63000025	SPBGR ATTACH TO STR	FOOT	40.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	3.000				

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63100169	TR BAR TRM T1 SPL FLR	EACH	1.000				
63200310	GUARDRAIL REMOV	FOOT	600.000				
63500105	DELINEATORS	EACH	105.000				
64200116	SHOULDER RUM STRIP 16	FOOT	128,408.000				
66300105	CALCIUM CHLORIDE APLD	TON	114.000				
66600105	FUR ERECT ROW MARKERS	EACH	219.000				
66700205	PERM SURV MKRS T1	EACH	9.000				
66700305	PERM SURV MKRS T2	EACH	14.000				
67000400	ENGR FIELD OFFICE A	CAL MO	30.000				
67000600	ENGR FIELD LAB	CAL MO	30.000				
67100100	MOBILIZATION	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	365.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	112.000				
70300100	SHORT TERM PAVT MKING	FOOT	33,893.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	2,335.000				

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70300230	TEMP PVT MK LINE 5	FOOT	494,145.000				
70300240	TEMP PVT MK LINE 6	FOOT	115.000				
70300260	TEMP PVT MK LINE 12	FOOT	1,394.000				
70300280	TEMP PVT MK LINE 24	FOOT	533.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	85,213.000				
70400100	TEMP CONC BARRIER	FOOT	562.500				
72000100	SIGN PANEL T1	SQ FT	2,208.000				
72000200	SIGN PANEL T2	SQ FT	240.000				
72800100	TELES STL SIN SUPPORT	FOOT	4,793.000				
72900100	METAL POST TY A	FOOT	288.000				
73000100	WOOD SIN SUPPORT	FOOT	78.000				
78001120	PAINT PVT MK LINE 5	FOOT	20,457.000				
78004200	PREF PL PM TB INL L&S	SQ FT	1,976.000				
78004220	PREF PL PM TB INL L5	FOOT	22,240.000				
78004230	PREF PL PM TB INL L6	FOOT	7,974.000				

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78004240	PREF PL PM TB INL L8	FOOT	4,193.000				
78004250	PREF PL PM TB INL L12	FOOT	1,533.000				
78004280	PREF PL PM TB INL L24	FOOT	533.000				
78009005	MOD URETH PM LINE 5	FOOT	205,756.000				
78100100	RAISED REFL PAVT MKR	EACH	1,511.000				
78200410	GUARDRAIL MKR TYPE A	EACH	8.000				
78200530	BAR WALL MKR TYPE C	EACH	96.000				
78201000	TERMINAL MARKER - DA	EACH	4.000				
78300100	PAVT MARKING REMOVAL	SQ FT	12,857.000				
78300200	RAISED REF PVT MK REM	EACH	200.000				
80400100	ELECT SERV INSTALL	EACH	8.000				
81028760	UNDRGRD C CNC 2 1/2	FOOT	1,814.000				
81028780	UNDRGRD C CNC 3 1/2	FOOT	32.000				
81603000	UD 2#8 #8G XLPUSE 3/4	FOOT	13,287.000				
82102250	LUM SV HOR MT 250W	EACH	79.000				

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82500310	LT CONT PM 240V 60	EACH	8.000				
83003600	LT P A 45MH 15DA	EACH	79.000				
83600355	LP F M 15BC 8" X 6'	EACH	79.000				
83800650	BKWY DEV COU SS SCRNR	EACH	316.000				
84200500	REM LT UNIT SALV	EACH	21.000				
84200804	REM POLE FDN	EACH	21.000				
84500110	REMOV LIGHTING CONTR	EACH	2.000				
84500120	REMOV ELECT SERV INST	EACH	2.000				
84500130	REMOV LTG CONTR FDN	EACH	2.000				

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Position – Stations shall be placed so they can be read from the adjacent shoulder.

Format – Metric [English] pavement stations shall use this format (XX+XOO

[XO”])

where X represents the pavement station.

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

HOT MIX ASPHALT – MIXTURE DESIGN REQUIREMENTS (D6)

In addition to the requirements of Article 1030.04, all High ESAL mixtures **with N design level of 70 or higher** shall meet the Hamburg Wheel Test (IL Modified AASHTO T 324) and Tensile Strength (IL Modified AASHTO T 283) criteria described in the Special Provision for HOT MIX ASPHALT-MIXTURE DESIGN VERIFICATION AND PRODUCTION.

High ESAL mixtures placed for temporary pavement that will be removed during this contract are not required to meet Hamburg Wheel criteria.

If the mix fails the Department’s verification test, the Contractor shall propose a substantial mixture change in writing to the Engineer for review and approval. Upon approval, the Contractor shall provide the Department four gyratory specimens representing the adjusted mix meeting the preparation requirements of Illinois Modified AASHTO T 324. The Engineer shall witness the production of the specimens. The Department will perform the Hamburg Wheel test and provide results within 10 calendar days of receiving the gyratory specimens.

This work will not be paid for separately, but shall be included in the cost of the various HMA items.

HOT MIX ASPHALT - MIXTURE DESIGN VERIFICATION AND PRODUCTION (BMPR)

Effective: January 1, 2012

Description. This special provision states the requirements for Hamburg Wheel and Tensile Strength testing for High ESAL, IL-4.75, and SMA hot mix asphalt (HMA) mixes during mix design verification and production. This special provision also states the plant requirements for hydrated lime addition systems used in the production of High ESAL, IL-4.75, and SMA mixes.

When the options of Warm Mix Asphalt, Reclaimed Asphalt Shingles, or Reclaimed Asphalt Pavement are used by the Contractor, the Hamburg Wheel and tensile strength requirements in this special provision will be superseded by the special provisions for Warm Mix Asphalt, Reclaimed Asphalt Shingles, or Reclaimed Asphalt Pavement as applicable.

Revised 06/04/2012

This work for Permanent Survey Markers to be used for setting section and sub-section markers shall be paid for at the Contract unit price per each for PERMANENT SURVEY MARKERS TYPE I, which price shall include verification and documentation of existing monument to be removed, resetting the necessary monuments, preparation and recording of monument records, including all necessary recording fees and documentation which shall be prepared by a registered land surveyor licensed in the State of Illinois.

ENGINEER'S FIELD OFFICE, TYPE A

In addition to the requirements of Article 670.02 of the Standard Specifications, the following items shall be provided:

1. Field Office shall have a floor space not less than **800** sq. ft.
2. A minimum of six (6) desks meeting the requirements of Article 607.02 (a).

ENGINEER'S FIELD LABORATORY

In addition to the items listed in Article 670.05, the Contractor shall furnish a 20± inch box fan and a microwave oven having a variable power output up to at least 700 watts. The microwave oven shall enable the operator to directly input cooking time.

These items will not be paid for separately but shall be included in the unit price per calendar month for ENGINEER'S FIELD LABORATORY.

WORK ZONE PAVEMENT MARKING REMOVAL

This work shall consist of removing all short-term and temporary pavement markings installed for stage construction in accordance with the applicable portions of Section 703 of the Standard Specifications. The short-term and temporary pavement markings shall be removed at the time they conflict with the traffic control staging as shown in the Maintenance of traffic Plan and as directed by the Engineer. This work will be measured and paid for at the contract unit price per square foot for WORK ZONE PAVEMENT MARKING REMOVAL.

GUARDRAIL REFLECTORS

All proposed guardrail markers shall meet the requirements of Type A, Reflectors; installed and paid for in accordance with Check Sheet No. 20 of the Recurring Special Provisions. No additional compensation will be allowed.

Revised 06/04/2012

CULVERT TO BE CLEANED

As noted in the plans or as directed by the Engineer, all existing culverts to remain in place in the final condition shall be cleaned of any accumulation of silt or other foreign matter, and shall be free from such accumulations at the time of final inspection and acceptance. All removed material shall be properly collected and disposed of in accordance with the project Storm Water Pollution Prevention Plan and NPDES permit requirements.

This work shall be paid for at the Contract unit price per each for CULVERT TO BE CLEANED.

FENCE REMOVAL

This work shall consist of removing all existing fencing, posts, supports, foundations and associated hardware at the locations shown on the plans or as directed by the Engineer. All material included with this removal shall be disposed of off-site by the Contractor. All work shall be completed in accordance with the applicable portions of Section 201 of the Standard Specifications.

All fence material requiring removal within the project construction limits will not be measured for payment but shall be considered included in the cost for EARTH EXCAVATION. All fence material to be removed within the right-of-way limits, but outside project construction limits, as directed by the Engineer, will be measured and paid for at the contract unit price per foot for FENCE REMOVAL.

Prior to beginning fence removal operations, the Contractor shall notify the adjacent property owners in addition to the Engineer in order to ensure that livestock operations are properly contained outside of the right-of-way limits.

GRANULAR CULVERT BACKFILL

This work consists of backfilling box culverts with granular materials. This work shall be performed at the locations shown on the plans or as directed by the Engineer.

Backfilling shall be performed according to Article 502.10. The backfill material shall meet the requirements of Article 1004.06, except that the gradation shall be CA-06 or CA-10.

Granular culvert backfill will be measured for payment in cubic yards compacted in place. Additional material required to backfill excavation outside the limits shown on the plans will not be measured for payment. This work shall be paid for at the contract unit price per cubic yard for GRANULAR CULVERT BACKFILL.

FURNISHING AND MAINTAINING AUTOMOTIVE VEHICLES

Description. This item shall consist of furnishing, servicing and maintaining in good repair two (2) unmarked 1/2 ton pickup **trucks (quad or extended cabs)** with four-wheel drive as approved by IDOT. These vehicles are for use by IDOT personnel in conformance with Illinois Department Order 11-2, Vehicle Operator's Manual concerning the use and operation of vehicles.

Revised 06/04/2012

IDENTIFICATION AND DISPOSAL OF EXISTING RAILROAD TIES

The Contractor shall be aware of the potential presence of existing railroad ties in the vicinity of the abandoned railroad bed which may require waste classification testing and proper disposal.

Identification and testing shall be per the Department's *Technical Environmental Memorandum No. I-6-94*, Entitled: *Waste Classification of Railroad Ties*, Dated June 21, 1994 as follows:

The waste classification of the railroad ties is dependent upon the physical appearance of the tie. Railroad ties are commonly preserved with Cresol, Pentachlorophenol, or CCA (Copper, Chromium, and Arsenic). These compounds could exhibit characteristics of a Resource Conservation and Recovery Act (RCRA) hazardous waste.

Revised 06/04/2012

ROCKFILL – SUBGRADE

This work consists of constructing a layer of rockfill exceeding 1 foot thick at subgrade locations having unstable or unsuitable soil conditions. When shown on the plans, the rockfill limits and thickness shall be confirmed by the Engineer prior to excavating below the theoretical top of rockfill line.

Materials shall meet the requirements of the following Articles of the Standard Specifications:

Subbase Granular Material	1004.04
Rockfill	1005.01

The gradation of rockfill shall be primary crusher run. If the rockfill layer thickness exceeds 3 ft, shot rock having a maximum size of 18 inches may be used. All rockfill shall be well graded.

Where shown on the plans or directed by the Engineer, excavation shall be performed according to Section 202 of the Standard Specifications. Excavated material may be placed in fills according to Article 202.03 with the approval of the Engineer

Rockfill shall be placed starting at one end of the designated area and advancing from previously placed material. Top surface of rockfill shall be seated with a roller approved by the Engineer. After seating, rockfill shall be capped with 4 to 6 inches of Subbase Granular Material, Type A. In cases where the plans show 6 or more inches of Subbase Granular Material, Type A as part of the pavement typical section, the plan Subbase Granular Material thickness may be used as a capping material.

This work will be measured and paid for at the contract unit price per ton for ROCKFILL - SUBGRADE and per cubic yard for EARTH EXCAVATION (ROCKFILL). The contract price for EARTH EXCAVATION (ROCKFILL) shall include excavation and placement of excavated materials within right-of-way or disposal off right-of-way. .

STORM SEWERS PROTECTED, CLASS A, 6” AND 8”

This work shall be performed according to Section 611 at locations directed by the Engineer. The locations are limited to where the cover thickness is inadequate to accommodate the Class A pipe material described in Article 550.03, and the pipe cannot be tied in with other field tile within a reasonable distance as determined by the Engineer.

Materials:

Plastic pipe meeting water main requirements. Plastic pipe shall be marked with the manufacturer’s name (or trademark); ASTM or AWWA specification; Schedule Number, Dimension Ratio (DR) Number or Standard Dimension Ratio (SDR) Number; and Cell Class. The pipe and fittings shall also meet NSF Standard 14, and bear the NSF seal of approval. Fittings shall be compatible with the type of pipe used. The plastic pipe options shall be in accordance with the following:

Added 06/04/2012

1. Polyvinyl Chloride (PVC) conforming to ASTM D 1785. Schedule 80 is the minimum required for all pipe sizes, except when the pipe is to be threaded, and then it shall be Schedule 120. It shall be made from PVC compound meeting ASTM D 1784, Class 12454.
2. Polyvinyl Chloride (PVC) conforming to ASTM D 2241. A minimum wall thickness of SDR 26 is required for all pipe sizes (Note: The lower the SDR number, the higher the wall thickness and pressure rating). It shall be made from PVC compound meeting ASTM D 1784, Class 12454.
3. Chlorinated Polyvinyl Chloride (CPVC) conforming to ASTM F 441. A minimum of Schedule 80 is required for all pipe sizes. Threaded joints are not allowed. It shall be made from CPVC compound meeting ASTM D 1784, Class 23447.
4. Chlorinated Polyvinyl Chloride (CPVC) conforming to ASTM F 442. A minimum wall thickness of SDR 26 is required for all pipe sizes (Note: The lower the SDR number, the higher the wall thickness and pressure rating). It shall be made from CPVC compound meeting ASTM D 1784, Class 23447.
5. Polyvinyl Chloride (PVC) conforming to ANSI/AWWA C900. A minimum of wall thickness of DR 25 is required for all pipe sizes (Note: The lower the DR number, the higher the wall thickness and pressure rating). It shall be made from PVC compound meeting ASTM D 1784, Class 12454.
6. Polyvinyl Chloride (PVC) conforming to ANSI/AWWA C905. A minimum of wall thickness of DR 26 is required for all pipe sizes (Note: The lower the DR number, the higher the wall thickness and pressure rating). It shall be made from PVC compound meeting ASTM D 1784, Class 12454.

Joining of plastic pipe shall be by push-on joint, solvent welded joint, heat welded joint, flanged joint, or threaded joint, in accordance with the pipe manufacturer's instructions and industry standards. Special precautions shall be taken to insure clean, dry contact surfaces when making solvent or heat welded joints. Adequate setting time shall be allowed for maximum strength.

Elastomeric seals (gaskets) used for push-on joints on plastic pipe shall comply with ASTM F477.

Solvent cement shall be specific for the plastic pipe material and shall comply with ASTM D 2564 (PVC) or ASTM F 493 (CPVC) and be approved by NSF.

Construction Requirements: Construction shall be performed according to Article 611.04 and the detail shown in the plans with the following exceptions:

1. The minimum trench width shall be 30 inches.
2. Bedding and backfill shall be coarse aggregate.
3. Deflection testing is not required.

This work will be measured and paid for according to Article 611.06 and 611.07.

Added 06/04/2012

AGGREGATE SHOULDERS

Any reference or callouts in these plans to "Aggregate Shoulders, Type A, or Aggregate Shoulders, Type A, 8", shall be interpreted to mean **Aggregate Shoulders, Type B**.

This work will be measured in payment in tons. The maximum payment will be limited to 100% of volume based on the lesser of the plan dimensions or dimensions approved by the Engineer and the unit weight of 1.89 tons/ cubic yard.

AGGREGATE SUBGRADE IMPROVEMENT (BDE)

Effective: April 1, 2012

Add the following Section to the Standard Specifications:

"SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement.

303.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.06
(b) Reclaimed Asphalt Pavement (RAP) (Notes 1, 2, and 3)	1031

Note 1. RAP shall not contain more than 10 percent steel slag or any materials considered expansive by the Department.

Note 2. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradations CS 01, CS 02, and RR 01 but shall not exceed 40 percent of the total product. The top size of the RAP shall be less than 4 in. (100 mm) and well graded.

Note 3. RAP having 100 percent passing the 1 1/2 in. (37.5 mm) sieve and being well graded, may be used as capping aggregate in the top 3 in. (75 mm) when aggregate gradations CS 01, CS 02, or RR 01 are used in lower lifts.

303.03 Equipment. The vibratory machine shall be according to Article 1101.01, or as approved by the Engineer.

303.04 Soil Preparation. The stability of the soil shall be according to the Department's Subgrade Stability Manual for the aggregate thickness specified.

303.05 Placing Aggregate. The maximum nominal lift thickness of aggregate gradations CA 02, CA 06, or CA 10 shall be 12 in. (300 mm). The maximum nominal lift thickness of aggregate gradations CS 01, CS 02, and RR 01 shall be 24 in. (600 mm).

Added 06/04/2012

303.06 Capping Aggregate. The top surface of the aggregate subgrade shall consist of a minimum 3 in. (75 mm) of aggregate gradations CA 06 or CA 10. When the contract specifies that a granular subbase is to be placed on the aggregate subgrade improvement, the 3 in. (75 mm) of capping aggregate shall be the same gradation and may be placed with the underlying aggregate subgrade improvement material.

303.07 Compaction. All aggregate lifts shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

303.08 Finishing and Maintenance of Aggregate Subgrade Improvement. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

303.09 Method of Measurement. This work will be measured for payment according to Article 311.08.

303.10 Basis of Payment. This work will be paid for at the contract unit price per square yard (square meter), cubic yard (cubic meter), or ton (metric ton) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified.”

Add the following to Section 1004 of the Standard Specifications:

“1004.06 Coarse Aggregate for Aggregate Subgrade Improvement. The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials.
- (c) Gradation.
 - (1) The coarse aggregate gradation for total subgrade thickness less than or equal to 12 in. (300 mm) shall be CA 2, CA 6, CA 10, or CS 01.

The coarse aggregate gradation for total subgrade thickness more than 12 in. (300 mm) shall be CS 01, CS 02 or RR 01(see Article 1005.01(c)).

Grad No.	COARSE AGGREGATE SUBGRADE GRADATIONS					
	Sieve Size and Percent Passing					
	8"	6"	4"	2"	#4	#200
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20	5 ± 5
CS 02		100	80 ± 10	25 ± 15		

Added 06/04/2012

Grad No.	COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)					
	Sieve Size and Percent Passing					
	200 mm	150 mm	100 mm	50 mm	4.75 mm	75 μ m
CS 01	100	97 \pm 3	90 \pm 10	45 \pm 25	20 \pm 20	5 \pm 5
CS 02		100	80 \pm 10	25 \pm 15		

- (2) The 3 in. (75 mm) capping aggregate shall be gradation CA 6 or CA 10.”

Added 06/04/2012