



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

July 25, 2014

SUBJECT: Mathon Drive
Section 12-00239-00-BR (Waukegan)
Lake County
Contract No. 61A57
Item 140
August 1, 2014 Letting
Addendum (B)

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

- 1. Replaced the Schedule of Prices.**
- 2. Revised Index of Special Provisions.**
- 3. Added pages 21A & 193-198 to the Special Provisions.**
- 4. Revised page 2 of the BDE Index.**
- 5. Deleted BDE Special Provision 80283, Removal and Disposal of Regulated Substances.**
- 6. Revised Plan Sheets 2, 5, 7, 20, 21-24, 26-29, 29A, 31, 67 & 68.**
- 7. Added Plan Sheets 25A & 80A.**

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

A handwritten signature in cursive script, reading "Ted B. Walschleger P.E.", with a small "P.E." to the right.

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

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COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE
LAKE	097	01	12-00239-00-BR (WAUKEGAN)	M-BHM-9003/952/000	MATHONDR

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
XX006653	FENCE (SPECIAL)	FOOT	400.000	X	=		
XX008367	DECORATIVE LT UNIT D1	EACH	6.000	X	=		
XX008368	DECORATIVE LT UNIT D2	EACH	6.000	X	=		
XX008369	DECORATIVE LT UNIT D3	EACH	4.000	X	=		
XZ127902	RETAINING WALL SPL	SQ FT	120.000	X	=		
X0322924	RETAINING WALL REMOV	SQ FT	120.000	X	=		
X0326671	CONC SURF COLOR TRMNT	SQ FT	4,050.000	X	=		
X5030301	CONC WEARING SURF VD	SQ YD	134.000	X	=		
X5030305	CONC WEARING SURF 5	SQ YD	353.000	X	=		
X5040100	PREC BRIDGE APP SLAB	SQ FT	3,933.000	X	=		
X5091755	PARAPET RAILING SPL	FOOT	811.000	X	=		
X5860110	GRANULAR BACKFILL STR	CU YD	132.000	X	=		
X7010216	TRAF CONT & PROT SPL	L SUM	1.000	X	=		
X7240200	REMOV SN PN ASY TB SP	EACH	1.000	X	=		
X8211000	UNDERPASS LUM (SP)	EACH	8.000	X	=		

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
Z0007510	ENGINEERED BARRIER *	SQ YD	120.000	X	=	=	=
Z0012754	STR REP CON DP = < 5	SQ FT	350.000	X	=	=	=
Z0012755	STR REP CON DP OVER 5	SQ FT	50.000	X	=	=	=
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000	X	=	=	=
Z0018002	DRAINAGE SCUPPR DS-11	EACH	6.000	X	=	=	=
Z0018800	DRAINAGE SYSTEM	L SUM	1.000	X	=	=	=
Z0026407	TEMP SHT PILING	SQ FT	634.000	X	=	=	=
Z0030850	TEMP INFO SIGNING	SQ FT	104.000	X	=	=	=
Z0033028	MAINTAIN LIGHTING SYS	CAL MO	11.000	X	=	=	=
Z0046304	P UNDR FOR STRUCT 4	FOOT	220.000	X	=	=	=
Z0048665	RR PROT LIABILITY INS	L SUM	1.000	X	=	=	=
Z0056608	STORM SEW WM REQ 12	FOOT	77.000	X	=	=	=
Z0065700	SLOPE WALL REPAIR	SQ YD	100.000	X	=	=	=
Z0073410	TEMP SUPPORT SYS L1	EACH	1.000	X	=	=	=
Z0073420	TEMP SUPPORT SYS L2	EACH	1.000	X	=	=	=

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
Z0076600	TRAINEES	hour	1,000.000	0.80	=	800.00	
Z0076604	TRAINEES TPG	hour	1,000.000	15.00	=	15,000.00	
20101100	TREE TRUNK PROTECTION	EACH	4.000		=		
20101200	TREE ROOT PRUNING	EACH	1.000		=		
20101300	TREE PRUN 1-10	EACH	1.000		=		
20101400	NITROGEN FERT NUTR	POUND	4.000		=		
20101600	POTASSIUM FERT NUTR	POUND	4.000		=		
20200100	EARTH EXCAVATION	CU YD	1,389.000		=		
20201200	REM & DISP UNS MATL	CU YD	527.000		=		
20800150	TRENCH BACKFILL	CU YD	179.000		=		
21001000	GEOTECH FAB F/GR STAB	SQ YD	3,804.000		=		
21101615	TOPSOIL F & P 4	SQ YD	3,800.000		=		
25000312	SEEDING CL 4A	ACRE	0.800		=		
25100115	MULCH METHOD 2	ACRE	0.800		=		
25100635	HD EROS CONTR BLANKET	SQ YD	2,916.000		=		

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
25200110	SODDING SALT TOLERANT	SQ YD	250.000	X	=	=	=
25200200	SUPPLE WATERING	UNIT	47.000	X	=	=	=
28000250	TEMP EROS CONTR SEED	POUND	80.000	X	=	=	=
28000400	PERIMETER EROS BAR	FOOT	2,155.000	X	=	=	=
28000510	INLET FILTERS	EACH	17.000	X	=	=	=
30300001	AGG SUBGRADE IMPROVE	CU YD	318.000	X	=	=	=
30300112	AGG SUBGRADE IMPR 12	SQ YD	3,804.000	X	=	=	=
35101600	AGG BASE CSE B 4	SQ YD	940.000	X	=	=	=
42000211	PCC PVT 7 1/2 JOINTD	SQ YD	3,325.000	X	=	=	=
42001300	PROTECTIVE COAT	SQ YD	4,832.000	X	=	=	=
42400200	PC CONC SIDEWALK 5	SQ FT	8,450.000	X	=	=	=
42400800	DETECTABLE WARNINGS	SQ FT	138.000	X	=	=	=
44000100	PAVEMENT REM	SQ YD	3,847.000	X	=	=	=
44000500	COMB CURB GUTTER REM	FOOT	1,965.000	X	=	=	=
44000600	SIDEWALK REM	SQ FT	5,075.000	X	=	=	=

* Revised 7-29-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
44003100	MEDIAN REMOVAL	SQ FT	871.000	X	=	=	
50101500	REM EXIST SUP-STR	EACH	1.000	X	=	=	
50102400	CONC REM	CU YD	135.100	X	=	=	
50157300	PROTECTIVE SHIELD	SQ YD	1,185.000	X	=	=	
50200100	STRUCTURE EXCAVATION	CU YD	218.000	X	=	=	
50300225	CONC STRUCT	CU YD	295.500	X	=	=	
50300255	CONC SUP-STR	CU YD	966.200	X	=	=	
50300260	BR DECK GROOVING	SQ YD	2,630.000	X	=	=	
50300285	FORM LINER TEX SURF	SQ FT	4,590.000	X	=	=	
50300300	PROTECTIVE COAT	SQ YD	3,624.000	X	=	=	
50500105	F & E STRUCT STEEL	L SUM	1.000	X	=	=	
50500505	STUD SHEAR CONNECTORS	EACH	11,955.000	X	=	=	
50800205	REINF BARS, EPOXY CTD	POUND	262,830.000	X	=	=	
50800515	BAR SPLICERS	EACH	1,328.000	X	=	=	
51500100	NAME PLATES	EACH	1.000	X	=	=	

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
52000110	PREF JT STRIP SEAL	FOOT	202.000 X	=	=	=	=
52100010	ELAST BEARING ASSY T1	EACH	24.000 X	=	=	=	=
52100020	ELAST BEARING ASSY T2	EACH	24.000 X	=	=	=	=
52100520	ANCHOR BOLTS 1	EACH	48.000 X	=	=	=	=
52100530	ANCHOR BOLTS 1 1/4	EACH	24.000 X	=	=	=	=
52100540	ANCHOR BOLTS 1 1/2	EACH	24.000 X	=	=	=	=
52100560	ANCHOR BOLTS 2	EACH	24.000 X	=	=	=	=
550A0340	STORM SEW CL A 2 12	FOOT	216.000 X	=	=	=	=
55100500	STORM SEWER REM 12	FOOT	123.000 X	=	=	=	=
56400100	FIRE HYDNTS TO BE MVD	EACH	1.000 X	=	=	=	=
59000200	EPOXY CRACK INJECTION	FOOT	80.000 X	=	=	=	=
59100100	GEOCOMPOSITE WALL DR	SQ YD	90.000 X	=	=	=	=
60100060	CONC HDWL FOR P DRAIN	EACH	4.000 X	=	=	=	=
60201105	CB TA 4 DIA T11F&G	EACH	6.000 X	=	=	=	=
60218400	MAN TA 4 DIA T1F CL	EACH	1.000 X	=	=	=	=

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
60219300	MAN TA 4 DIA T11F&G	EACH	2.000				
60223800	MAN TA 6 DIA T1F CL	EACH	2.000				
60236800	INLETS TA T11F&G	EACH	5.000				
60237470	INLETS TA T24F&G	EACH	2.000				
60250200	CB ADJUST	EACH	2.000				
60255500	MAN ADJUST	EACH	2.000				
60266600	VALVE BOX ADJ	EACH	1.000				
60500040	REMOV MANHOLES	EACH	1.000				
60500060	REMOV INLETS	EACH	5.000				
60603800	COMB CC&G TB6.12	FOOT	1,932.000				
60605000	COMB CC&G TB6.24	FOOT	40.000				
63000003	SPBGR TY A 9FT POSTS	FOOT	826.000				
63100070	TRAF BAR TERM T5	EACH	1.000				
63100085	TRAF BAR TERM T6	EACH	2.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	1.000				

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
63200310	GUARDRAIL REMOV	FOOT	1,280.000				
63301210	REM RE-E SPBGR TY A	FOOT	25.000				
66300105	CALCIUM CHLORIDE APLD	TON	3.000				
66900200	NON SPL WASTE DISPOSL *	CU YD	400.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY *	EACH	2.000				
67000400	ENGR FIELD OFFICE A	CAL MO	11.000				
67100100	MOBILIZATION	L SUM	1.000				
72000100	SIGN PANEL T1	SQ FT	78.000				
72400100	REMOV SIN PAN ASSY TA	EACH	8.000				
72400310	REMOV SIGN PANEL T1	SQ FT	18.000				
72800100	TELES STL SIN SUPPORT	FOOT	192.000				
78005100	EPOXY PVT MK LTR-SYM	SQ FT	148.000				
78005110	EPOXY PVT MK LINE 4	FOOT	3,744.000				
78005130	EPOXY PVT MK LINE 6	FOOT	363.000				

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
78005150	EPOXY PVT MK LINE 12	FOOT	357.000	=	=	=	=
78005180	EPOXY PVT MK LINE 24	FOOT	63.000	=	=	=	=
78200410	GUARDRAIL MKR TYPE A	EACH	20.000	=	=	=	=
78201000	TERMINAL MARKER - DA	EACH	1.000	=	=	=	=
80400100	ELECT SERV INSTALL	EACH	1.000	=	=	=	=
80400200	ELECT UTIL SERV CONN	L SUM	1.000	5,000	00	5,000	00
81028200	UNDRGRD C GALVS 2	FOOT	290.000	=	=	=	=
81028220	UNDRGRD C GALVS 3	FOOT	600.000	=	=	=	=
81100320	CON AT ST 1 PVC GS	FOOT	150.000	=	=	=	=
81200230	CON EMB STR 2 PVC	FOOT	802.000	=	=	=	=
81300220	JUN BX SS AS 6X6X4	EACH	3.000	=	=	=	=
81300530	JUN BX SS AS 12X10X6	EACH	4.000	=	=	=	=
81300550	JUN BX SS AS 12X12X6	EACH	4.000	=	=	=	=
81400730	HANDHOLE C CONC	EACH	1.000	=	=	=	=
81603100	UD 4#6#6GXLPUSE 1 1/4	FOOT	2,165.000	=	=	=	=

* Revised 7-24-14

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
81702130	EC C XLP USE 1C 6	FOOT	1,305.000 X	=	=	=	=
81702150	EC C XLP USE 1C 2	FOOT	680.000 X	=	=	=	=
82500350	LT CONT BASEM 240V100	EACH	1.000 X	=	=	=	=
83600300	LIGHT POLE FDN 30D	FOOT	130.000 X	=	=	=	=
84200500	REM LT UNIT SALV	EACH	11.000 X	=	=	=	=
84200804	REM POLE FDN	EACH	8.000 X	=	=	=	=
84500110	REMOV LIGHTING CONTR	EACH	1.000 X	=	=	=	=
84500120	REMOV ELECT SERV INST	EACH	1.000 X	=	=	=	=
84500130	REMOV LTG CONTR FDN	EACH	1.000 X	=	=	=	=
89502380	REMOV EX HANDHOLE	EACH	2.000 X	=	=	=	=

TOTAL \$

* Revised 7-24-14

- NOTE:
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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DECORATIVE LIGHTING UNIT, TYPE "D3"

LUMINAIRE, HORIZONTAL MOUNT, LED:

This work shall be performed in accordance with Section 821 of the Standard Specifications insofar as applicable and as detailed on the plans, except as modified herein.

This work shall consist of furnishing a horizontal mount luminaire with LED light source, and 240 volt driver as detailed on the Plans.

The luminaire shall have a black powder coat finish.

The luminaire shall be as manufactured by LEOTEK, GreenKingCobra LED Street Light (GC2) Series, Catalog No. GC2120FMVNW3BLK700LPCRWL.

LIGHT POLE ASSEMBLY, FLUTED STEEL, COMPLETE:

This work shall be performed in accordance with Section 830 of the Standard Specifications insofar as applicable and as detailed on the Plans, except as modified herein.

This work shall consist of furnishing a fluted steel light pole with accessories as manufactured by VISCO and as detailed on the Plans.

Light poles shall be UL classified and designed to current AASHTO standards for 90 mph wind, 3 second gusts, and minimum 50 year life.

The light pole and accessories shall have a black powder coat finish.

This work will be paid for at the contract unit price each for DECORATIVE LIGHTING UNIT, TYPE "D3", which price shall be payment-in-full for all labor, equipment, materials, and incidental expenses as necessary to furnish the luminaire and pole including lamp, pole wire, ballast, fuse holders, fusing, arm, bolts, nuts, and washers.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

Revise Article 669.01 of the Standard Specifications to read:

“669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and water. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their content and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.”

Revise Article 669.08 of the Standard Specifications to read:

“669.08 Contaminated Soil and/or Groundwater Monitoring. The Contractor shall hire a qualified environmental firm to monitor the area containing the regulated substances. The affected area shall be monitored with a photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID). Any field screen reading on the PID or FID in excess of background levels indicates the potential presence of contaminated material requiring handling as a non-special waste, special waste, or hazardous waste. No excavated soils can be taken to a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation with detectable PID or FID meter readings that are above background. The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily. All testing shall be done by a qualified engineer/technician. Such testing and monitoring shall be included in the work. The Contractor shall identify the exact limits of removal of non-special waste, special waste, or hazardous waste. All limits shall be approved by the Engineer prior to excavation. The Contractor shall take all necessary precautions.

Based upon the land use history of the subject property and/or PID or FID readings indicating contamination, a soil or groundwater sample shall be taken from the same location and submitted to an approved laboratory. Soil or groundwater samples shall be analyzed for the contaminants of concern, including pH, based on the property's land use history or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605. The analytical results shall serve to document the level of soil contamination. Soil and groundwater samples may be required at the discretion of the Engineer to verify the level of soil and groundwater contamination.

Samples shall be grab samples (not combined with other locations). The samples shall be taken with decontaminated or disposable instruments. The samples shall be placed in sealed containers and transported in an insulated container to the laboratory. The container shall maintain a temperature of 39 °F (4 °C). All samples shall be clearly labeled. The labels shall indicate the sample number, date sampled, location and elevation, and any other observations.

The laboratory shall use analytical methods which are able to meet the lowest appropriate practical quantitation limits (PQL) or estimated quantitation limit (EQL) specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846 and "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039. For parameters where the specified cleanup objective is below the acceptable detection limit (ADL), the ADL shall serve as the cleanup objective. For other parameters the ADL shall be equal to or below the specified cleanup objective.”

Replace the first two paragraphs of Article 669.09 of the Standard Specifications with the following:

"669.09 Contaminated Soil and/or Groundwater Management and Disposal. The management and disposal of contaminated soil and/or groundwater shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605, the soil shall be managed as follows:
- (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but they are still considered within area background levels by the Engineer, the excavated soil can be utilized within the construction limits as fill, when suitable. Such soil excavated for storm sewers can be placed back into the excavated trench as backfill, when suitable, unless trench backfill is specified. If the soils cannot be utilized within the construction limits, they shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.
 - (2) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (5) When the Engineer determines soil cannot be managed according to Articles 669.09(a)(1) through (a)(4) above, the soil shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.
- (b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the construction limits or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation for the following reason.

Added 7-24-14

- (1) The pH of the soil is less than 6.25 or greater than 9.0.
- (2) The soil exhibited elevated photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID) readings.
- (c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed TACO Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 IAC 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation.
- (d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Illinois Administrative Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste.

All groundwater encountered within lateral trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench it must be removed as a special or hazardous waste. The Contractor is prohibited from managing groundwater within the trench by discharging it through any existing or new storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer."

Revise Article 669.14 of the Standard Specifications to read:

"669.14 Final Environmental Construction Report. At the end of the project, the Contractor will prepare and submit three copies of the Environmental Construction Report on the activities conducted during the life of the project, one copy shall be submitted to the Resident Engineer, one copy shall be submitted to the District's Environmental Studies Unit, and one copy shall be submitted with an electronic copy in Adode.pdf format to the Geologic and Waste Assessment Unit, Bureau of Design and Environment, IDOT, 2300 South Dirksen Parkway, Springfield, Illinois 62764. The technical report shall include all pertinent information regarding the project including, but not limited to:

- (a) Measures taken to identify, monitor, handle, and dispose of soil or groundwater containing regulated substances, to prevent further migration of regulated substances, and to protect workers,
- (b) Cost of identifying, monitoring, handling, and disposing of soil or groundwater containing regulated substances, the cost of preventing further migration of regulated substances, and the cost for worker protection from the regulated substances. All cost should be in

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the format of the contract pay items listed in the contract plans (identified by the preliminary environmental site assessment (PESA) site number),

- (c) Plan sheets showing the areas containing the regulated substances,
- (d) Field sampling and testing results used to identify the nature and extent of the regulated substances,
- (e) Waste manifests (identified by the preliminary environmental site assessment (PESA) site number) for special or hazardous waste disposal, and
- (f) Landfill tickets (identified by the preliminary environmental site assessment (PESA) site number) for non-special waste disposal.”

Revise the second paragraph of Article 669.16 of the Standard Specifications to read:

“The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.”

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 56+50 to Station 57+30 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton Street). This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(b)Fluoranthene, Dibenzo(a,h)Anthracene, Arsenic, and Manganese.
- Station 62+80 to Station 65+00 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton Street). This material meets the criteria of Article 669.09(a)(5)

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and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Arsenic and Manganese.

- Station 59+00 to Station 59+70 (Pershing Road) 0 to 80 feet LT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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: Arsenic.
- Station 2+50 to Station 5+50 (Mathon Drive) 0 to 100 feet RT (IDOT ROW, PESA Site 2784-3, Amstutz Expressway and Grand Avenue/Mathon Drive Interchange). 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 55+00 to Station 57+50 (Pershing Road) 0 to 80 feet LT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 59+70 to Station 60+50 (Pershing Road) 0 to 80 feet LT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 55+00 to Station 56+50 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 62+00 to Station 62+80 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 62+70 to Station 65+00 (Pershing Road) 0 to 80 feet LT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 Lead.
- Station 58+30 to Station 61+30 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton 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 1+00 to Station 5+50 (Mathon Drive) 0 to 100 feet LT (IDOT ROW, PESA Site 2784-3, Amstutz Expressway and Grand Avenue/Mathon Drive Interchange). 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.

Engineered Barrier. An engineered barrier shall be installed in storm sewer trenches between Station 62+80 to Station 65+00 (Pershing Road) 0 to 80 feet RT (UP Railroad Yard, PESA Site 2784-5, 10 West Clayton Street) to limit the exposure and control the migration of contamination from the contaminated soil that remains within the trench excavation. It shall be placed beneath the trench backfill material.

The engineered barrier shall consist of a geosynthetic clay liner system, geomembrane liner, or equivalent material as approved by the Engineer. A geosynthetic clay liner shall be composed of a bentonite clay liner approximately 6.4 millimeters (0.25 inches) thick. The engineered barrier shall have a permeability of less than 10^{-7} cm/sec. Installation of the geosynthetic clay liner system shall be in accordance with the manufacturer's recommendations except that all laps shall face down-slope.

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The geomembrane liner shall have a minimum thickness of 30 mil. The geomembrane liner shall line the entire trench and in accordance with the manufacturer's recommendations.

No equipment will be allowed on the engineered barrier until it is covered by a minimum of 305 millimeters (1 foot) of backfill. Any damage to the engineered barrier caused by the Contractor shall be repaired at no additional expense to the Department in accordance with the manufacturer's recommendations and as directed by the Engineer.

Method of Measurement. Engineered barrier will be measured for payment in place and the area computed in square meters (square yards).

Basis of Payment. The engineered barrier will be paid for at the contract unit price per square meters (square yards) for ENGINEERED BARRIER.

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<u>File Name</u>	<u>Pg.</u>	<u>Special Provision Title</u>	<u>Effective</u>	<u>Revised</u>
80338		Portland Cement Concrete Partial Depth Hot-Mix Asphalt Patching	April 1, 2014	
* 80343		Precast Concrete Handhole	Aug. 1, 2014	
80300		Preformed Plastic Pavement Marking Type D - Intaid	April 1, 2012	
80328	172	X Progress Payments	Nov. 2, 2013	
80281	173	X Quality Control/Quality Assurance of Concrete Mixes	Jan. 1, 2012	Jan. 1, 2014
34261		Railroad Protective Liability Insurance	Dec. 1, 1986	Jan. 1, 2006
80157	174	X Railroad Protective Liability Insurance (5 and 10)	Jan. 1, 2006	
80306		Reclaimed Asphalt Pavement (RAP) and Reclaimed Asphalt Shingles (RAS)	Nov. 1, 2012	April 1, 2014
80327	176	X Reinforcement bars	Nov 1, 2013	
80283	178	X Removal and Disposal of Regulated Substances	Jan. 1, 2012	Nov. 2, 2012
80319	182	X Removal and Disposal of Surplus Materials	Nov. 2, 2012	
* 80344		Rigid Metal Conduit	Aug. 1, 2014	
80307		Seeding	Nov. 1, 2012	
* 80340		Speed Display Trailer	April 2, 2014	
80339		Stabilized Subbase	April 1, 2014	
80127		Steel Cost Adjustment	April 2, 2004	April 1, 2009
80317		Surface Testing of Hot-Mix Asphalt Overlays	Jan. 1, 2013	
80301	183	X Tracking the Use of Pesticides	Aug. 1, 2012	
80333		Traffic Control Setup and Removal Freeway/Expressway	Jan. 1, 2014	
20338	184	X Training Special Provisions	Oct. 15, 1975	
80318		Traversable Pipe Grate	Jan. 1, 2013	April 1, 2014
* 80345	187	X Underpass Luminaire	Aug. 1, 2014	
* 80346		Waterway Obstruction Warning Luminaire	Aug. 1, 2014	
80288	188	X Warm Mix Asphalt	Jan. 1, 2012	Nov. 1, 2013
80302	192	X Weekly DBE Trucking Reports	June 2, 2012	
80289		Wet Reflective Thermoplastic Pavement Marking	Jan. 1, 2012	
80071		Working Days	Jan. 1, 2002	

The following special provisions are in the 2014 Supplemental Specifications and Recurring Special Provisions:

<u>File Name</u>	<u>Special Provision Title</u>	<u>New Location</u>	<u>Effective</u>	<u>Revised</u>
80309	Anchor Bolts	Articles 1006.09, 1070.01, and 1070.03	Jan. 1, 2013	
80276	Bridge Relief Joint Sealer	Article 503.19 and Sections 588 and 589	Jan. 1, 2012	Aug. 1, 2012
80312	Drain Pipe, Tile, Drainage Mat, and Wall Drain	Article 101.01, 1040.03, and 1040.04	Jan. 1, 2013	
80313	Fabric Bearing Pads	Article 1082.01	Jan. 1, 2013	
80169	High Tension Cable Median Barrier	Section 644 and Article 1106.02	Jan. 1, 2007	Jan. 1, 2013
80320	Liquidated Damages	Article 108.09	April 1, 2013	
80297	Modified Urethane Pavement Marking	Section 780, Articles 1095.09 and 1105.04	April 1, 2012	
80253	Moveable Traffic Barrier	Section 707 and Article 1106.02	Jan. 1, 2010	Jan. 1, 2013
80231	Pavement Marking Removal	Recurring CS #33	April 1, 2009	
80321	Pavement Removal	Article 440.07	April 1, 2013	
80022	Payments to Subcontractors	Article 109.11	June 1, 2000	Jan. 1, 2006
80316	Placing and Consolidating Concrete	Articles 503.06, 503.07, and 516.12	Jan. 1, 2013	
80278	Planting Woody Plants	Section 253 and Article 1081.01	Jan. 1, 2012	Aug. 1, 2012
80305	Polyurea Pavement Markings	Article 780.14	Nov. 1, 2012	Jan. 1, 2013

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REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES (BDE)

Effective: January 1, 2012

Revised: November 2, 2012

Revise Article 669.01 of the Standard Specifications to read:

"669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and water. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their content and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities."

Revise Article 669.08 of the Standard Specifications to read:

"669.08 Contaminated Soil and/or Groundwater Monitoring. The Contractor shall hire a qualified environmental firm to monitor the area containing the regulated substances. The affected area shall be monitored with a photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID). Any field screen reading on the PID or FID in excess of background levels indicates the potential presence of contaminated material requiring handling as a non-special waste, special waste, or hazardous waste. No excavated soils can be taken to a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation with detectable PID or FID meter readings that are above background. The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily. All testing shall be done by a qualified engineer/technician. Such testing and monitoring shall be included in the work. The Contractor shall identify the exact limits of removal of non-special waste, special waste, or hazardous waste. All limits shall be approved by the Engineer prior to excavation. The Contractor shall take all necessary precautions.

Based upon the land use history of the subject property and/or PID or FID readings indicating contamination, a soil or groundwater sample shall be taken from the same location and submitted to an approved laboratory. Soil or groundwater samples shall be analyzed for the contaminants of concern, including pH, based on the property's land use history or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605. The analytical results shall serve to document the level of soil contamination. Soil and groundwater samples may be required at the discretion of the Engineer to verify the level of soil and groundwater contamination.

Samples shall be grab samples (not combined with other locations). The samples shall be taken with decontaminated or disposable instruments. The samples shall be placed in sealed containers and transported in an insulated container to the laboratory. The container shall maintain a temperature of 39 °F (4 °C). All samples shall be clearly labeled. The labels shall indicate the sample number, date sampled, location and elevation, and any other observations.

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The laboratory shall use analytical methods which are able to meet the lowest appropriate practical quantitation limits (PQL) or estimated quantitation limit (EQL) specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846 and "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039. For parameters where the specified cleanup objective is below the acceptable detection limit (ADL), the ADL shall serve as the cleanup objective. For other parameters the ADL shall be equal to or below the specified cleanup objective."

Replace the first two paragraphs of Article 669.09 of the Standard Specifications with the following:

"669.09 Contaminated Soil and/or Groundwater Management and Disposal. The management and disposal of contaminated soil and/or groundwater shall be according to the following:

- (a) Soil Analytical Results Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605, the soil shall be managed as follows:
- (1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but they are still considered within area background levels by the Engineer, the excavated soil can be utilized within the construction limits as fill, when suitable. Such soil excavated for storm sewers can be placed back into the excavated trench as backfill, when suitable, unless trench backfill is specified. If the soils cannot be utilized within the construction limits, they shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.
 - (2) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.
 - (3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

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(4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as "uncontaminated soil" at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(5) When the Engineer determines soil cannot be managed according to Articles 669.09(a)(1) through (a)(4) above, the soil shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.

(b) Soil Analytical Results Do Not Exceed Most Stringent MAC. When the soil analytical results indicate that detected levels do not exceed the most stringent MAC but the pH of the soil is less than 6.25 or greater than 9.0, the excavated soil can be utilized within the construction limits or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation.

(c) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Illinois Administrative Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste.

All groundwater encountered within lateral trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench it must be removed as a special or hazardous waste. The Contractor is prohibited from managing groundwater within the trench by discharging it through any existing or new storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer."

Revise Article 669.14 of the Standard Specifications to read:

"669.14 Final Environmental Construction Report. At the end of the project, the Contractor will prepare and submit three copies of the Environmental Construction Report on the activities conducted during the life of the project, one copy shall be submitted to the Resident Engineer, one copy shall be submitted to the District's Environmental Studies Unit, and one copy shall be submitted with an electronic copy in Adode.pdf format to the Geologic

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and Waste Assessment Unit, Bureau of Design and Environment, IDOT, 2300 South Dirksen Parkway, Springfield, Illinois 62764. The technical report shall include all pertinent information regarding the project including, but not limited to:

- (a) Measures taken to identify, monitor, handle, and dispose of soil or groundwater containing regulated substances, to prevent further migration of regulated substances, and to protect workers,
- (b) Cost of identifying, monitoring, handling, and disposing of soil or groundwater containing regulated substances, the cost of preventing further migration of regulated substances, and the cost for worker protection from the regulated substances. All cost should be in the format of the contract pay items listed in the contract plans (identified by the preliminary environmental site investigation (PESA) site number),
- (c) Plan sheets showing the areas containing the regulated substances,
- (d) Field sampling and testing results used to identify the nature and extent of the regulated substances,
- (e) Waste manifests (identified by the preliminary environmental site investigation (PESA) site number) for special or hazardous waste disposal, and
- (f) Landfill tickets (identified by the preliminary environmental site investigation (PESA) site number) for non-special waste disposal."

Revise the second paragraph of Article 669.16 of the Standard Specifications to read:

"The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL."

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