

May 17, 2006

SUBJECT: FAI Route 94 Project IM-NHI-943 (403) 60 Section 1818R-3 Cook County Contract No. 60B17 Item No. 1X, May 26, 2006 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. Revised the entire Schedule of Prices.
- 2. Revised the Recurring Special Provision Check Sheet.
- 3. Revised the Table of Contents to the Special Provisions.
- 4. Revised pages 2, 142, 160 & 161 to the Special Provisions.
- 5. Added pages 222 230 to the Special Provisions.
- 6. Revised the Cover Sheet, sheets 7, 8, 9, 12 15, 75, 108 111, 113 116, 119, 120, 125 & 126 of the Plans.

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

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

Very truly yours,

Michael L. Hine Engineer of Design and Environment

Tet Dalucheyou AE.

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

cc: Diane O'Keefe, Region 1, District 1; Roger Driskell; Estimates; Design & Environment File

TBW:MS:jc

\* COMPLETE NEW SCHEDULE

C-91-292-06 State Job # -PPS NBR -1-74823-0545 County Name -COOK--Code -31 - -1 - -District -

**Project Number** IM-NHI-943-4/030/60 Route

FAI 94

Section Number - 1818R-3

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
E20200G1	V-PARTHEN QUINQ 1G	EACH	161.000				
XX001854	STAB SUB-BASE 6	SQ YD	50,190.000				
XX004201	PAVT REINFORCEMENT 14	SQ YD	37,837.000				
X0320333	ROADWAY CLEANING SPL	EACH	28.000				
X0322256	TEMP INFO SIGNING	SQ FT	823.000				
X0322671	STAB CONSTR ENTRANCE	SQ YD	1,050.000				
X0322859	WEED CONTR PRE-EM GRN	POUND	3.000				
X0323426	SED CONT DR ST INL CL	EACH	26.000				
X0323973	SED CONT SILT FENCE	FOOT	3,158.000				
X0323974	SED CONT SILT FN MAIN	FOOT	790.000				
X0323988		SQ FT	2,640.000				
X0324112	BARRIER BASE	FOOT	5,319.000				
X0324646	CON EN RC 6-4 CNC	FOOT	224.000				
X0324697		POUND	36,000.000				•
	APPLY DUST SUP AGENTS	UNIT	32.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0325082	CTA BAR REM	FOOT	4,705.000				
X0325083	CTA FENCE	FOOT	4,725.000				
X0325084	CTA GATES	EACH	5.000				
X0325328	CON T 2 CNC	FOOT	17.000				
X0712400	TEMP PAVEMENT	SQ YD	2,267.000				
X2500322	SEEDING CL 5A MOD	ACRE	0.750				
X4066426	BC SC SUPER "D" N70	TON	13.000				
X4834090	PCC SHOULDERS 14	SQ YD	9,286.000				
X6061001	COMB CC&G TM4.48	FOOT	834.500				
X6063600	COMB CC&G TM4.24	FOOT	2,009.000				
X6370910	CONC BAR 1F 32HT	FOOT	546.000				
X6370925	CONC BAR 1F 42 SPL	FOOT	4,577.000				
X6640210	TEMP CH LK FENCE PORT	FOOT	896.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	457.000				

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 County Name COOK- 

 Code 31 - 

 District 1 - 

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FAI 94

Section Number - 1818R-3

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X7015000	CHANGEABLE MESSAGE SN	CAL MO	64.000				
Z0002400	BALLAST	TON	1,095.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0013825	CONTR LOW-STRENG MATL	CU YD	195.000				
Z0030250	IMP ATTN TEMP NRD TL3	EACH	4.000				
Z0030350	IMP ATTN REL NRD TL3	EACH	8.000				
Z0040530	PIPE UNDERDRAIN REMOV	FOOT	10,200.000				
Z0048665	RR PROT LIABILITY INS	L SUM	1.000				
Z0076600	TRAINEES	HOUR	2,000.000		0.800		1,600.000
20100110	TREE REMOV 6-15	UNIT	110.000				
20100210	TREE REMOV OVER 15	UNIT	36.000				
20101000	TEMPORARY FENCE	FOOT	821.000				
20200100	EARTH EXCAVATION	CU YD	38,220.000				
20201200	REM & DISP UNS MATL	CU YD	1,565.000				
20800150	TRENCH BACKFILL	CU YD	1,407.000				

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Section Number - 1818R-3

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
21001000	GEOTECH FAB F/GR STAB	SQ YD	49,519.000				
21101615	TOPSOIL F & P 4	SQ YD	6,428.000				
21101630	TOPSOIL F & P 8	SQ YD	576.000				
21101645	TOPSOIL F & P 12	SQ YD	2,470.000				
21101825	COMPOST F & P 6	SQ YD	2,847.000				
25000210	SEEDING CL 2A	ACRE	1.500				
25000400	NITROGEN FERT NUTR	POUND	146.000				
25000500	PHOSPHORUS FERT NUTR	POUND	145.000				
25000600	POTASSIUM FERT NUTR	POUND	145.000				
25000750	MOWING	ACRE	6.000				
25001800	SEEDING CL 4 MOD	ACRE	0.750				
25100630	EROSION CONTR BLANKET	SQ YD	9,637.000				
25200200	SUPPLE WATERING	UNIT	510.000				
28000250	TEMP EROS CONTR SEED	POUND	200.000				
28000300	TEMP DITCH CHECKS	EACH	10.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
28000510	INLET FILTERS	EACH	13.000				
31101860	SUB GRAN MAT B 24	SQ YD	50,653.000				
42001300	PROTECTIVE COAT	SQ YD	52,734.000				
42100380	CONT REINF PCC PVT 14	SQ YD	37,837.000				
44000004	BIT SURF REM 1	SQ YD	6,800.000				
44000006	BIT SURF REM 1 1/2	SQ YD	155.000				
44000100	PAVEMENT REM	SQ YD	36,828.000				
44000500	COMB CURB GUTTER REM	FOOT	3,446.000				
44001980	CONC BARRIER REMOV	FOOT	491.000				
44004250	PAVED SHLD REMOVAL	SQ YD	7,809.000				
44004260	PAVED SHLD REMOVAL SP	SQ YD	172.000				
44004400	PAVT REMOVAL SPL	SQ YD	1,024.000				
50200100	STRUCTURE EXCAVATION	CU YD	234.000				
50300225	CONC STRUCT	CU YD	135.000				
50800205	REINF BARS, EPOXY CTD	POUND	29,970.000				

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Section Number - 1818R-3

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
550A0340	STORM SEW CL A 2 12	FOOT	54.000				
550A0360	STORM SEW CL A 2 15	FOOT	2,403.000				
550A0380	STORM SEW CL A 2 18	FOOT	407.000				
550A0660	STORM SEW CL A 3 15	FOOT	3.000				
550A0710	STORM SEW CL A 3 24	FOOT	177.000				
55100400	STORM SEWER REM 10	FOOT	462.000				
55100500	STORM SEWER REM 12	FOOT	2,006.000				
55100700	STORM SEWER REM 15	FOOT	616.000				
55100900	STORM SEWER REM 18	FOOT	494.000				
55101200	STORM SEWER REM 24	FOOT	183.000				
60107700	PIPE UNDERDRAINS 6	FOOT	9,336.000				
60108200	PIPE UNDERDRAIN 6 SP	FOOT	214.000				
60200105	CB TA 4 DIA T1F OL	EACH	2.000				
60201310	CB TA 4 DIA T20F&G	EACH	54.000				
60206905	CB TC T1F OL	EACH	3.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
60218400	MAN TA 4 DIA T1F CL	EACH	4.000				
60221100	MAN TA 5 DIA T1F CL	EACH	1.000				
60226600	MAN DT 5 DIA T1F CL	EACH	1.000				
60250200	CB ADJUST	EACH	24.000				
60255500	MAN ADJUST	EACH	24.000				
60257900	MAN RECONST	EACH	3.000				
60500040	REMOV MANHOLES	EACH	31.000				
60500050	REMOV CATCH BAS	EACH	60.000				
60500060	REMOV INLETS	EACH	3.000				
60608521	COMB CC&G TM2.24	FOOT	56.500				
60618324	CONC MEDIAN SURF 6 SP	SQ FT	1,121.000				
63100085	TRAF BAR TERM T6	EACH	2.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	2.000				
63700805	CONC BAR TRANS	FOOT	196.000				
64200105	SHOULDER RUMBLE STRIP	FOOT	8,643.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
66400560	CH LK FENCE 6 SPL	FOOT	5,100.000				
66402900	CH LK GATE 6X6 SINGL	EACH	6.000				
66410300	CH LK FENCE REMOV	FOOT	62.000				
66900200	NON SPL WASTE DISPOSL	CU YD	13,670.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY	EACH	2.000				
67100100	MOBILIZATION	L SUM	1.000				
	TEMP PVT MK LINE 6	FOOT	11,000.000				
	PAVT MARK TAPE T3 4	FOOT	13,845.000				
	PAVT MARK TAPE T3 5	FOOT	2,552.000				
	PAVT MARK TAPE T3 8	FOOT	2,330.000				
	PAVT MARK TAPE T3 12	FOOT	35.000				
70301000		SQ FT	20,293.000				
70400100		FOOT	5,900.000				
	REL TEMP CONC BARRIER	FOOT	12,940.000				

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ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
72000100	SIGN PANEL T1	SQ FT	4.000				
72000200	SIGN PANEL T2	SQ FT	32.000				
72000300	SIGN PANEL T3	SQ FT	75.000				
72400310	REMOV SIGN PANEL T1	SQ FT	12.000				
72400720	RELOC SIGN PANEL T2	SQ FT	12.000				
72800100	TELES STL SIN SUPPORT	FOOT	14.000				
73000100	WOOD SIN SUPPORT	FOOT	104.000				
73700300	REM CONC FDN-OVHD	EACH	2.000				
78005110	EPOXY PVT MK LINE 4	FOOT	17,444.000				
78005120	EPOXY PVT MK LINE 5	FOOT	3,925.000				
78005140	EPOXY PVT MK LINE 8	FOOT	6,645.000				
78005150	EPOXY PVT MK LINE 12	FOOT	1,146.000				
78008210	POLYUREA PM T1 LN 4	FOOT	7,224.000				
78008220		FOOT	5,100.000				
	POLYUREA PM T1 LN 8	FOOT	5,488.000				

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FAI 94

Section Number - 1818R-3

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78008250	POLYUREA PM T1 LN 12	FOOT	844.000				
78100100	RAISED REFL PAVT MKR	EACH	542.000				
78200100	MONODIR PRIS BAR REFL	EACH	842.000				
78200410	GUARDRAIL MKR TYPE A	EACH	8.000				
78200530	BAR WALL MKR TYPE C	EACH	49.000				
78201000	TERMINAL MARKER - DA	EACH	2.000				
78300100	PAVT MARKING REMOVAL	SQ FT	6,615.000				
81000600	CON T 2 GALVS	FOOT	155.000				
81023750	CON ENC C 3 PVC	FOOT	151.000				
81400200	HD HANDHOLE	EACH	4.000				
81500200	TR & BKFIL F ELECT WK	FOOT	396.000				
84200705	LIGHTING FDN REM PART	EACH	24.000				

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#### RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

CHE	СК	SHEET #	NO.
		State Required Contract Provisions All Federal-aid Construction Contracts (Eff. 2-1-69) (Rev. 10-1-83)	
		Subletting of Contracts (Federal-aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	
3	X	EEO (Eff. 7-21-78) (Rev. 11-18-80)	83
4		Specific Equal Employment Opportunity Responsibilities NonFederal-aid Contracts	
_		(Eff. 3-20-69) (Rev. 1-1-94)	94
5			100
6		Reserved	105
			106
	X		107
9		Haul Road Stream Crossings, Other Temporary Stream Crossings and In-Stream Work Pads	100
10		(Eff. 1-2-92) (Rev. 1-1-98) Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-02)	100
	x		109
12		Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-97)	
13		Asphaltic Emulsion Slurry Seal and Fibrated Asphaltic Emulsion Slurry Seal (Eff. 8-1-89) (Rev. 2-1-97)	
14		Bituminous Surface Treatments Half-Smart (Eff. 7-1-93) (Rev. 1-1-97)	
	x	Quality Control/Quality Assurance of Bituminous Concrete Mixtures (Eff. 1-1-00) (Rev. 3-1-05)	
16	^	Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 2-1-95)	
17		Bituminous Surface Removal (Cold Milling) (Eff. 11-1-87) (Rev. 10-15-97)	
	x	Resurfacing of Milled Surfaces (Eff. 10-1-95)	
19	~	PCC Partial Depth Bituminous Patching (Eff. 1-1-98)	
20		Patching with Bituminous Overlay Removal (Eff. 10-1-95) (Rev. 7-1-99)	157
21		Reserved	159
22		Protective Shield System (Eff. 4-1-95) (Rev. 1-1-03)	160
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28		Reserved	
29		Reserved	
30		Reserved	
	X	······································	
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33		English Substitution of Metric Bolts (Eff. 7-1-96)	
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35 36		Corrosion Inhibitor (Eff. 3-1-80) (Rev. 7-1-99)	
37		Quality Control of Concrete Mixtures at the Plant-Single A (Eff. 8-1-00) (Rev. 1-1-04)	
38		Quality Control of Concrete Mixtures at the Plant-Double A (Eff. 8-1-00) (Rev. 1-1-04)	
	х		
		Traffic Barrier Terminal Type 1, Special (Eff. 8-1-94) (Rev. 1-1-03)	215
41	~	Reserved	
	х	Segregation Control of Bituminous Concrete (Eff. 7-15-97)	
43		Reserved	
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### START OF WORK

It is anticipated that the start of work for this contract will be August 1, 2006. The Contractor will not be allowed to proceed with any operations on the pavement which may require any lane closures prior to August 1, 2006.

### MAINTENANCE OF ROADWAYS

Effective: September 30, 1985

Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

## CONTRACTOR COOPERATION

The Contractor's attention is directed to the fact that other separate contracts will be under construction during the duration of this Contract and that the Contractor will be governed by Article 105.08 of the Standard Specifications.

The Contractor shall coordinate proposed project start dates and sequence of construction with the Engineer and other Contractors to present an effective and timely schedule for successful completion of the project.

(e) 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.

## EPOXY PAVEMENT MARKING (BDE)

Effective: January 1, 2001

Revised: August 1, 2003

Revise Article 1095.04(b) of the Standard Specifications to read:

"(b) The Epoxide Value (WPE) of Component A shall be tested according to ASTM D 1652 on a pigment free basis. The WPE shall not vary more than plus or minus 50 units of the qualification samples."

Revise Article 1095.04(c) of the Standard Specifications to read:

"(c) The Total Amine Value of Component B shall be tested according to ASTM D 2074. The Total Amine Value shall not vary more than plus or minus 50 units of the qualification samples."

Revise Article 1095.04(g) of the Standard Specifications to read:

"(g) The epoxy pavement marking material, when mixed in the proper mix ratio and applied at 0.35 mm to 0.41 mm (14 to 16 mils) wet film thickness and with the proper saturation of glass spheres, shall exhibit a dry no pick-up time of twenty minutes or less when tested according to ASTM D 711."

When the planting work is performed by a subcontractor, this delay in inspection and acceptance of plants shall not delay acceptance of the entire project and final payment due if the Contractor requires and receives from the subcontractor a third party performance bond naming the Department as obligee in the full amount of the planting quantities listed in the contract, multiplied by their contract unit prices. The bond shall be executed prior to acceptance and final payment of the non-planting items and shall be in full force and effect until final inspection and acceptance of all plants including replacements. Execution of the third party bond shall be the option of the prime Contractor."

Revise Article 253.16 of the Standard Specifications to read:

**"253.16 Method of Measurement.** This work will be measured for final payment, in place, after the period of establishment. Trees, shrubs, and vines will be measured as each individual plant. Seedlings will be measured in units of 100 plants."

Revise Article 253.17 of the Standard Specifications to read:

**"253.17 Basis of Payment.** This work will be paid for at the contract unit price per each for TREES, SHRUBS, and VINES, of the species, root type, and plant size specified; and per unit for SEEDLINGS. Payment will be made according to the following schedule.

- (a) Initial Payment. Upon planting, 75 percent of the pay item(s) will be paid.
- (b) Final Payment. Upon inspection and acceptance of the plant material, or upon execution of a third party bond, the remaining 25 percent of the pay item(s) will be paid."

## PLASTIC BLOCKOUTS FOR GUARDRAIL (BDE)

Effective: November 1, 2004

Add the following to Article 630.02 of the Standard Specifications:

"(h) Plastic Blockouts (Note 1.)

Note 1. Plastic blockouts, 150 mm (6 in.) deep, may be used in lieu of 150 mm (6 in.) deep wood block-outs for steel plate beam guardrail. The plastic blockouts shall be on the Department's approved list."

## POLYUREA PAVEMENT MARKING (BDE)

Effective: April 1, 2004

Description. This work shall consist of furnishing and applying pavement marking lines.

The type of polyurea pavement marking applied will be determined by the type of reflective media used. Polyurea Pavement Marking Type I shall use glass beads as a reflective media. Ployurea Pavement Marking Type II shall use a combination of composite reflective elements and glass beads as a reflective media.

Polyurea-based liquid pavement markings shall only be applied by Contractors on the list of Approved Polyurea Contractors maintained by the Engineer of Operations and in effect on the date of advertisement for bids.

Materials. Materials shall meet the following requirements:

### PIPE UNDERDRAIN REMOVAL

<u>Description</u>. This work consists of the removal and satisfactory disposal of existing pipe underdrain, at the locations shown on the plans or as directed by the Engineer. This work shall be performed in accordance with the applicable portions of Section 202 of the Standard Specifications, the existing typical sections in the plans and as herein specified.

Should the removal of the pipe underdrain create a trench below the top of finished subgrade for the proposed pavement section, this trench shall be backfilled with suitable subgrade materials in accordance with the applicable portions of Section 202 of the Standard Specifications.

<u>General Requirements</u>. Disposal of pipe and other unsuitable material shall be according to Article 202.03.

<u>Method of Measurement</u>. Pipe Underdrain Removal of the existing various diameters will be measured for payment in feet, as removed.

<u>Basis of Payment</u>. This work shall be paid for at the contract unit price per foot for PIPE UNDERDRAIN REMOVAL, which shall be payment in full for excavating, removing and properly disposing of the existing pipe underdrain. The contract unit price shall also include payment for any backfilling of the existing trench, should this become necessary as described above.

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### **PIPE UNDERDRAIN, 6"**

This work shall be constructed according to Section 601 of the Standard Specifications and Standard 601001 except CA 16 shall be used in lieu of FA 1 or FA 2 for backfilling of the trench. The CA 16 shall be according to Article 1004.06 and 1004.01 of the Standard Specifications except in the table, Coarse Aggregate Gradations, the percent passing the 1.18 mm (No. 16) sieve shall be 4% +/- 4%. The pipe shall be wrapped using a Fabric Envelope (sock) meeting the requirements of Section 1080.01 of the Standard Specifications.

#### **CONCRETE BARRIER**

Revise Section 637 of the Standard Specifications to read:

## "SECTION 637. CONCRETE BARRIER"

**637.01 Description**. This work shall consist of constructing a concrete barrier and its base to the lines, grades and details shown in the plans.

**637.02 Materials**. Materials for concrete barrier and concrete base shall conform to the requirements of the following Articles of Section 1000 – Materials: Except as follows: add the following to the coarse aggregate gradation Table of Standard Specification.

In the Coarse Aggregate Gradation table of Article 1004.01© of the Standard Specifications, revise the percent passing the 12.5 mm (1/2 inch) sieve for CA7 to a minimum of 45% and CA11 to a minimum of 45%.

The Contractor may combine two or more similar types of Coarse Aggregate sizes consisting of CA7, CA11, CA13, CA14, CA16, provided a CA7 or CA11 is included in the blend.

The Coarse Aggregate used to produce the concrete barrier and base, if poured monolithically with the barrier, shall conform to the superstructure requirements concerning deleterious materials or substances whose disintegration is accompanied by an increase in volume which may cause spalling of the concrete.

	Item	Article/Section
a)	Portland Cement Concrete	1020
b)	Tie Bars (Note 1)	1006.10 (a) (b)
c)	Dowel Bars	1006.11 (b)
d)	Protective Coat	1023
e)	Non-Shrink Grout	1024
f)	Chemical Adhesive	1027
g)	Preformed Expansion Joint	1051.01 – 1051.08
•	Fillers	
h)	Reinforcement Bars	508

Note 1. Tie bars shall be Grade 400 (Grade 60).

Materials for bituminous concrete base shall conform to the requirements to Article 356.02.

**673.03 Equipment**. Equipment for concrete barrier shall conform to the requirements of the following Articles of Section 1100 – Equipment.

	ltem	Article/Section
a)	Hand vibrator	1103.17 (a)
b)	3 m (10 ft) Straightedge	1103.17 (b)

Equipment for Portland cement concrete base shall conform to the requirements of Article 483.03.

Equipment for bituminous concrete base shall conform to the requirements of Article 356.03.

## CONSTRUCTION REQUIREMENTS

**637.04 Barrier Base**. The base may be constructed separately or poured monolithically with the barrier. When constructed separately, Portland cement concrete base shall be constructed according to Article 483.04 – 483.06, except the surface shall be finished according to Article 503.09 (a). Bituminous concrete base shall be constructed according to Articles 356.05 and 356.06.

**637.05 Anchoring**. Barrier shall be anchored to the base by the methods shown on the plans. When tie bars are used, they shall be installed in preformed or drilled holes with a non-shrink grout or chemical adhesive.

**637.06 Barrier Construction**. Concrete barrier shall be constructed according to the applicable portions of Articles 503.06 and 503.07. Where the horizontal alignment of the concrete barrier is curved, the barrier shall be constructed either on the curved alignment or on chords not more than 3m (10 ft) in length.

When slip formed, the vertical centerline of the barrier shall not vary from the proposed centerline by more than 75 mm (3 in.) nor by more than 13 mm in 3 m (1/2 in. in 10 ft). All surfaces shall be checked with a 3 m (10 ft) straightedge as the concrete exits the slip form mold. Surface irregularities greater than 10 mm in 3 m (3/8 in. in 10 ft) shall be corrected immediately. Continued variations in the barrier surface exceeding 6 mm in 3 m (1/4 in. in 10 ft) will not be permitted and remedial action shall immediately be taken to correct the problem. Any deformations or bulges remaining after the initial set shall be removed by grinding after the concrete has hardened. All holes and honeycombs shall be patched immediately.

**637.07 Barrier Transitions**. Transitions between barriers of different design shall be constructed according to the details shown on the plans.

**637.08 Joints**. Joints shall be constructed as shown on the plans and as follows:

- a) Construction Joints. Construction joints shall be constructed in the barrier whenever there is an interruption in the pour of more than 30 minutes.
- Expansion Joints Expansion joints shall be constructed in the barrier and the base in line with expansion joints in the adjacent pavement or shoulder. Expansion joints shall also be constructed at locations where the barrier abuts a rigid structure.

Prior to placing concrete, a light coating of oil shall be uniformly applied to the dowel bars.

c) Contraction Joints. Contraction joints shall be constructed in the barrier at uniform intervals with a maximum spacing of 6 m (20 ft) or in line with contraction joints in the adjacent pavement or shoulder. Contraction joints shall be formed by a groove 3 mm (1/8 in.) wide by 50 mm (2 in.) deep either formed in the plastic concrete or sawed after the concrete has set.

d) Barrier joints shall match the adjacent shoulder joints.

**637.09 Finishing**. The surface of concrete barrier shall be finished according to Article 503.16 (a).

**637.10 Protective Coat**. When required, the exposed top and exposed vertical surfaces of the barrier exposed to traffic shall receive a protective coat application per the requirements of the Standard Specifications. The application of the protective coat shall be according to Article 420.21.

637.11 Method of Measurement. This work will be measured as follows:

- a) Contract Quantities. The requirements for the use of contract quantities shall be according to Article 202.07 (a).
- b) Measured Quantities. New barrier base, both separate and monolithic, will be measured for payment in meters (feet) in place, along the centerline of the base or barrier. The width of the base will be defined as the width of the barrier.

Concrete barrier will be measured for payment in meters (feet) in place, along the centerline of the barrier.

## TEMPORARY EROSION CONTROL (BDE)

Effective: November 1, 2002

Revise the fifth sentence of the third paragraph of Article 280.04(a) of the Standard Specifications to read:

"This work may be constructed of hay or straw bales, extruded UV resistant high density polyethylene panels, erosion control blanket, mulch barrier, aggregate barriers, excavation, seeding, or mulch used separately or in combination, as approved, by the Engineer."

Add the following paragraphs after the fifth paragraph of Article 280.04(a) of the Standard Specifications.

"A ditch check constructed of extruded, UV resistant, high density polyethylene panels, "M" pins and erosion control blanket shall consist of the following materials:

Extruded, UV resistant, high density polyethylene panels shall have a minimum height of 250 mm (10 in.) and minimum length of 1.0 m (39.4 in.). The panels shall have a 51 mm (2 in.) lip along the bottom of the panel. Each panel shall have a single rib thickness of 4 mm (5/32 in.) with a 12 mm (1/2 in.) distance between the ribs. The panels shall have an average apparent opening size equal to 4.75 mm (No. 4) sieve, with an average of 30 Added 05/17/2006

percent open area. The tensile strength of each panel shall be 26.27 kN/m (1800 lb/ft) in the machine direction and 7.3 kN/m (500 lb/ft) in the transverse direction when tested according to ASTM D 4595.

"M" pins shall be at least 76 mm (3 in.) by 686 mm (27 in.), constructed out of deformed grade C1008 D3.5 rod (0.211 in. diameter). The rod shall have a minimum tensile strength of 55 MPa (8000 psi).

Erosion control blanket shall conform to Article 251.04.

A section of erosion control blanket shall be placed transverse to the flowline direction of the ditch prior to the construction of the polyethylene ditch check. The length of the section shall extend from the top of one side of the ditch to the top of the opposite side of the ditch, while the width of the section shall be one roll width of the blanket. The upstream edge of the erosion control blanket shall be secured in a 100 mm (4 in.) trench. The blanket shall be secured in the trench with 200 mm (8 in.) staples placed at 300 mm (1 ft) intervals along the edge before the trench is backfilled. Once the upstream edge of the blanket is secured, the downstream edge shall be secured with 200 mm (8 in.) staples placed at 300 mm (1 ft) intervals along the edge. The polyethylene ditch check shall be installed in the middle of the erosion control blanket, with the lip of each panel facing outward.

The ditch check shall consist of two panels placed back to back forming a single row. Placement of the first two panels shall be at the toe of the backslope or sideslope, with the panels extending across the bottom of the ditch. Subsequent panels shall extend both across the bottom of the ditch and up the opposite sideslope, as well as up the original backslope or sideslope at the distance determined by the Engineer.

The M pins shall be driven through the panel lips to secure the panels to the ground. M pins shall be installed in the center of the panels with adjacent panels overlapping the ends a minimum of 50 mm (2 in.). The pins shall be placed through both sets of panels at each overlap. They shall be installed at an interval of three M pins per one meter (39 in.) length of ditch check. The panels shall be wedged into the M pins at the top to ensure firm contact between the entire bottom of the panels and the soil."

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## NON-SPECIAL WASTE WORKING CONDITIONS

See next page

This work shall be according to Article 669 of the Standard Specifications for Road and Bridge Construction adopted January 1, 2002 and the following:

<u>Qualifications</u>. 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.

<u>General.</u> Implementation of this Special Provision will likely require the Contractor to subcontract for the execution of certain activities. It will be the Contractor's responsibility to assess the working conditions and adjust anticipated production rates accordingly.

The Contractor shall manage all contaminated materials as non-special waste as previously identified. <u>This work shall include monitoring and potential sampling, analytical testing, and management of material contaminated by regulated substances.</u>

The Contractor shall excavate and dispose of any soil classified as a non-special waste as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer shall be at the Contractor's expense. The preliminary site investigation (PSI) report, available through the District's Environmental Studies Unit, estimated the excavation quantity of non-special waste at the following location. The information available at the time of plan preparation determined the limits of the contamination and the quantities estimated were based on soil excavation for construction purposes only. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit which ever is less. The Environmental Firm shall continuously monitor for worker protection and the Contractor shall manage and dispose of all soils excavated within the following areas as classified below. Any soil samples or analysis without the approval of the Engineer shall be at the Contractor's expense.

- 1. Station 2316+00 to Station 2317+50 (NB 79<sup>th</sup> Street C-D Ramp) 0 to 110 feet RT 0 to 15 feet LT non-special waste. Contaminants of concern sampling parameters: TCLP Lead.
- Station 2319+50 to Station 2320+50 (NB 79<sup>th</sup> Street C-D Ramp) 0 to 90 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: TCLP Lead.
- Station 2324+40 to Station 2325+60 (NB 79<sup>th</sup> Street C-D Ramp) 0 to 120 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: PNAs and TCLP Lead.
- 4. Station 2329+50 to Station 2334+50 (NB 79<sup>th</sup> Street C-D Ramp) 0 to 100 feet RT 0 to 15 feet LT non-special waste. Contaminants of concern sampling parameters: PNAs, Arsenic, Lead, and TCLP Lead.

- 5. Station 2343+00 to Station 2346+60 (NB 75<sup>th</sup> to 71 Street C-D Ramp) 0 to 140 feet RT 0 to 15 feet LT non-special waste. Contaminants of concern sampling parameters: PNAs and TCLP Lead.
- 6. Station 2348+05 to Station 2348+80 (NB 75<sup>th</sup> to 71 Street C-D Ramp) 0 to 90 feet RT 0 to 15 feet LT non-special waste. Contaminants of concern sampling parameters: PNAs.
- Station 2349+00 to Station 2350+50 (NB 75<sup>th</sup> to 71 Street C-D Ramp) 0 to 90 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: PNAs and Lead.
- Station 2352+50 to Station 2355+00 (NB 75<sup>th</sup> to 71 Street C-D Ramp) 0 to 90 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: PNAs and TCLP Lead.
- Station 2356+90 to Station 2358+55 (NB 75<sup>th</sup> to 71 Street C-D Ramp) 0 to 130 feet RT 0 to 15 feet LT – non-special waste. Contaminants of concern sampling parameters: TCLP Lead.

All excavated soils that are not determined to be a non-special waste and they cannot be utilized on-site as fill, shall be managed off-site as uncontaminated soil to the following location. The specific site utilized will be determined in construction by the Engineer and it will be based on the type of soil being excavated and capacity needed at these sites. Additional sites may be added during construction.

1. Paxton Landfill (Cluster Sites) at 116<sup>th</sup> Street & Paxton Avenue in Chicago Clays and Sands

### STATUS OF UTILITIES TO BE ADJUSTED

#### Status of Utilities to be Adjusted

Effective: January 30, 1987

Revised: July 1, 1994

Utility companies involved in this project have provided the estimated dates:

<u>Name of Utility</u>	Туре	Location	Estimated Dates for Start and Completion of Relocation or Adjustments
SBC	36 MTD	75 <sup>th</sup> Street Sta. 2339+87	No conflict anticipated. SBC has abandoned duct. 911 cables are present. Contractor to use caution when excavating.
SBC	36 MTD	77 <sup>th</sup> Street Sta. 2326+13	Adjusted by SBC. No conflict anticipated. Contractor to use caution when excavating.
SBC	3 INV	71 <sup>st</sup> Street	SBC has abandoned duct. No conflict anticipated.
CTA*	Fiber Optic Line	72 <sup>nd</sup> St. at the MWRD lateral sewer crossing. Sta. 2358+00 to Sta. 2360+00	The fiber optic line was installed by CTA and was placed shallow in order to avoid conflict with the MWRD sewer. Hand digging will be required. Relocation of the fiber optic line by the CTA will be performed at the time of construction.

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

\*CTA Electrical Duct locations are approximate and were obtained from the CTA. Minor conflicts are expected for the installation of the proposed CTA barrier wall and adjacent proposed drainage structures at various locations throughout the length of the project. Close coordination between the Contractor and CTA is required per the "CTA Coordination" Special Provision to allow for relocations during construction. A Subsurface Utility Engineering study for the areas identified in the above "Status of Utilities to be Adjusted" Special Provision will be provided to the Contractor at the Pre-Construction Meeting.